

PROPOSAL SUBMITTED BY		
Contractor's Name		
Street		
City	State	Zip Code

**CITY OF LOCKPORT
ILLINOIS**



**SPECIFICATION AND CONTRACT DOCUMENTS NO. 26-109
11th STREET PARKING LOT**

Pre-Bid Meeting	Not Required
Bid Opening Date:	August 7, 2026
Bid Opening Time:	10:30 A.M
Bid Opening Location:	Lockport City Hall, 222 E. 9 th Street, Lockport, IL 60441
Base Bid Bond:	10% of the Amount of Bid
Performance Bond:	100% of the Amount of Bid

Submit Bids to:

City of Lockport
Attn: City Clerk
City of Lockport
222 E. 9th Street
Lockport, Illinois 60441

Note: This cover sheet is an integral part of the contract documents and is, as are all of the following documents, part of any contract executed between the City of Lockport and any successful BIDDER. Do not detach any portion of this document. Invalidation could result.

11th STREET PARKING LOT
SPECIFICATION AND CONTRACT DOCUMENT NO. 26-109
CITY OF LOCKPORT, ILLINOIS

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NOTE: RETURN ALL PARTS

PART 1

PROPOSAL CONDITIONS



**BID NOTICE
INVITATION FOR BIDS**

**11th STREET PARKING LOT
(26-109)**

The City of Lockport will receive sealed bids for Pavement removal, Concrete Curb and/or Gutter removal and installation, brick pavement installation, HMA Paving, PCC Sidewalk installation, Signage and Pavement Marking, retaining wall installation, underground storm, sanitary, and electric utility installation, lighting improvements, and all incidental and collateral work necessary to complete the project all in accordance with the Specifications and Contract Documents for the 11th Street Parking Lot (26-109). Prospective bidders are advised to carefully review the Plan, General Conditions, Special Conditions, Special Provisions, and Details of this document.

Prequalification: Prequalification by IDOT will be required of all contractors and subcontractors on this project in the respective discipline(s) they will be responsible for constructing.

Obtaining Bid Documents: The Bidding Documents can be downloaded from QuestCDN at www.questcdn.com under Login using QuestCDN #10286443 for a non-refundable charge of \$22.00. A QuestCDN login will be required. Contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in membership registration and downloading this digital project information. A hard copy of the plans may also be viewed at V3's office located at 7325 Janes Avenue, Woodridge, IL 60517. Contractors must purchase bid documents and be shown on the Bidder's Plan Holder List in order to bid. Bids received from contractors who are not in the Bidder's Plan holder List will be rejected.

Bids will be received until Friday, August 7, 2026, at 10:30 A.M. local time, at which time all bids will be publicly opened and read. The bid opening will be held at the City of Lockport City Hall, third floor, City Clerk's Office, 222 E. 9th Street, Lockport, IL 60441. All bids must be received prior to the date and time shown above. Bids transmitted by facsimile or email will not be accepted.

Bids must be submitted in a sealed envelope addressed to the City of Lockport, City Clerk, 222 E. 9th Street, Lockport, IL 60441 and marked to indicate the following:

**11th STREET PARKING LOT
(26-109)
DO NOT OPEN
BID OPENING: Friday, August 7, 2026 at 10:30 A.M.**



GENERAL CONDITIONS

1. **Specifications.** Specifications are included within the bid package. Bidders must indicate any differences from the specifications in their bid proposal. It is the responsibility of the bidder to fully understand the specifications set forth. Include any descriptive literature and indicate any options that differ from the original specifications.
2. **Bid Proposal.** All prices and notations must be in ink or typewritten. Mistakes may be crossed out with corrections typed adjacent and all corrections must be initialed in ink by the person signing the proposal. The proposal must be signed by an authorized officer or individual.
3. **Submission.** Sealed bids will be received until the date, time, and at the location indicated in the bid documents, at which time the bids will be opened and publicly read. Bids must be submitted in a sealed envelope shall be clearly marked with the name of the project, the date and time of the bid opening, and addressed to the City of Lockport. Formal bids received after the specified bid time will not be considered and will be returned unopened. It is the responsibility of the bidder to insure that the bid has been received by the City prior to the time specified in the bid documents. The City will not be responsible for undelivered mail or any other failure of any bidder or agency to deliver the bid proposal on time.

Duplicate copies shall be submitted, *one original and one copy*, of the bid document, each one stapled. Bid documents shall be submitted in their entirety.

4. **Forms.** A bidder is required to complete the proposal in its entirety including Certificate of Compliance, Hold Harmless Agreement, Contractor's Drug Free Workplace Certificate, Sexual Harassment Certificate, Equal Employment Opportunity Certificate, Apprenticeship and Training Certificate and Taxpayer Identification Number sheet.
5. **Bid Deposit.** All bids must be accompanied by a bid bond, certified check, bank draft, or irrevocable letter of credit on a responsible, solvent bank, payable to the City of Lockport in an amount equal to ten percent (10%) of the total bid amount. The purpose of the deposit guarantees that the successful bidder will supply material and/or services as specified. All bids not accompanied by a bid deposit, where required, will not be considered a valid bid.

Bid deposits (certified checks) will be returned to unsuccessful bidders within 10 working days after the bid opening, and to successful bidder(s) upon execution of the contract(s) and the fulfillment of bond and insurance requirements, if applicable.

The successful bidder's failure to execute the contract or meet bond or insurance requirements within 10 working days after the award of the contract shall result in the deposit being forfeited to the City as liquidated damages.

6. **Interpretation.** Any bidder who finds, in the bidder's opinion, a discrepancy in or omission from the specifications, or is in doubt as to their meaning, or believes that the specifications are discriminatory, shall notify the City identified on the bid in writing not later than 5 days prior to the scheduled opening of bids. Exceptions taken do not obligate the City to change the specifications. The City will notify all bidders in writing, by addendum, of any interpretations made on specifications or instructions. The City will assume no responsibility for oral instruction or suggestion. All official correspondence in regard to the specifications should be directed to and will be issued by the City. Bidders will acknowledge receipt of any addendum issued by returning a signed copy of the addendum(s) with the proposal, which will be noted on the bid tabulation.
7. **Quotations.** Unless clearly shown on the bid that it is the intent that a reduced total price is being offered on the basis of receiving an award of all items covered by the total, any totals should equal the actual sum of the extension of unit prices. Otherwise, in the event of any discrepancy between a unit price(s), extended price(s), and/or total price(s), unit prices will govern and the bid will be recalculated accordingly. Bid prices must include all applicable costs to the City including shipping costs to any point in City of Lockport. The City is exempt from paying Illinois Sales Tax and Federal Excise Taxes. Prices submitted shall not include any of these taxes. The City, upon request, will execute the exemption certificates in connection with all orders when Federal Excise tax would otherwise be due.



GENERAL CONDITIONS

- 8. Exceptions.** Any bidder's exceptions to the terms or conditions, or deviations from the written specifications must be in writing and attached to the bid form. No verbal exceptions or agreements with employees of the City will be considered valid. Such exceptions or deviations can be cause for rejection of the bid proposal. The submission of a bid shall be considered an agreement to all the terms, conditions, and specifications provided herein and in the various bid documents, unless specifically noted otherwise in the proposal.
- 9. Competition.** To better insure fair competition and to permit determination of the lowest bidder:
- a) If any person contemplating submitting a bid for the proposed contract is in doubt as to the true meaning of any part of the plans, specifications or other proposed contract documents, he may submit to the City a written request for an interpretation thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents will be made only by addendum duly issued and a copy of such addendum will be mailed or delivered to each person receiving a set of such documents. The City will not be responsible for any other explanation or interpretation of the proposed documents.
 - b) A bidder may offer only one price on each item though they may have the ability to furnish two or more types that meet specifications. A bidder may offer alternative pricing for an item if substantiated with new technologies and continue to meet specifications. Bidders must clearly indicate alternative pricing in the offer. Submission by a single bidder of more than one price for a single item shall be sufficient cause for rejection of all prices for that item by the bidder.
 - c) Bids which show any omission, irregularity, alteration of forms, additions not called for, conditional or unconditional unresponsive bids, or bids obviously unbalanced may be rejected.
 - d) The Bidder declares that he understands that the quantities listed on the Proposal form and in the plans are approximate only and that they are subject to increase or decrease; and that he will take in full payment thereof the amount and the summation of the actual quantities, as fully determined, multiplied by the unit prices shown in the schedule of prices contained within the Proposal Form.
 - e) The Bidder further agrees that the unit prices submitted within the Proposal Form are for the purpose of obtaining a gross sum, and for use in computing the value of extras and deductions. If there is a discrepancy between the gross sum bid and that resulting from the summations of the quantities multiplied by their respective unit prices, the latter shall apply.
 - f) All bid proposals must be accompanied by descriptive literature as may be called for by the specifications.
 - g) Specifications provided are not established arbitrarily to limit competition or to exclude competitive bidders. City. Minimum and maximum specifications where included, are based on City needs, estimated costs of operation and maintenance, and other factors meeting City requirements.
- 10. Contract Conditions.** Bidders are responsible to become familiar with all conditions, instructions and specifications governing this bid. The bidder is responsible to visit the project location. Once the bid proposals have been opened, the failure to have read and understood all the conditions, specifications and instructions shall not be cause to alter the original proposal or for the vendor to request additional compensation.
- 11. Field Conditions.** Bidders are required to acquaint themselves fully of the conditions relating to construction and labor under which the work will be performed. The Contractor must employ, insofar as possible, such methods and means in carrying out the work as will not cause any interruption or any interference with any other Contractor. Bidders are required to inform themselves fully of the conditions relating to prevailing and predetermined labor rates and the applicable laws relating thereto, and shall be governed thereby.

Figured dimensions and marked data shall take precedence over scale measurements, and details shall take precedence over smaller scale general drawings. Discrepancies or ambiguities found in the Plans or Specifications shall at once be reported to the City for clarification.



GENERAL CONDITIONS

Contractor shall verify all measurements and center lines in which they shall work and shall be responsible for the correctness of same and will examine the premises and satisfy themselves as to the existing conditions under which they will be obliged to operate.

Failure of Contractor to notify, in writing, of any conditions or measurements making it impossible to carry out the work as shown and specified, will be construed as meaning no such conditions exist and no additional monies will be added to the Contract.

- 12. Alter Work.** The Bidder further agrees that if the City decides to extend or shorten the work, or otherwise alter it by increasing or decreasing the quantities, including the elimination of any one or more of the items, they will perform the work as altered, increased or decreased, at the Contract unit prices.
- 13. Extra Work.** The successful bidder agrees that the City may at any time during the progress of the work covered by this Contract order other work or materials that are not included in the Proposal or Contract as a specific item accompanied by a unit price, and which are not included under the Bid price for other items in this Contract. This work shall be performed as extra work, and compensation shall be paid for in accordance with the Standard Specifications.
- 14. Assignment/Subletting.** A successful bidder shall not assign the contract, or subcontract the whole or any part of the contract without written consent of the City, except as may be noted on the bid proposal. Such consent shall not relieve the bidder from obligation nor change the terms of the contract.
- 15. Collusion.** In submitting a proposal, the bidder certifies to the City that the prices contained in the proposal have been established without knowledge of any other proposal on this item and the bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any other bidder, City employee or any other person, to fix the bid price submitted by the bidder or any other bidder, and agrees to indemnify the City for any losses sustained by it due to illegal actions of the bidder. (State of Illinois Criminal Code of 1961, 720 ILCS 5/33E-3 or 33E-4, as amended.)
- 16. Reservations.** The "City" shall refer to the City of Lockport. The City reserves the right to reject any or all bids or parts of bids, and waive formalities or technicalities in bids when, in the City's reasoned judgment, the best interest of the City will be served by such action.
 - a) The City reserves the right to award contracts or place orders on a lump sum or individual group basis.
 - b) The City may waive minor differences in specifications provided these differences do not violate the specification intent nor materially affect the operation for which the item or items are being purchased.
 - c) The City reserves the right to defer the award of the contract for a period not to exceed sixty (60) calendar days after the date bids are received, to accept or reject any and all proposals, to let the contract to any bidder which the City, in its sole discretion, deems to be in the public interest and to waive technicalities.
- 17. Withdrawal of Proposal.** Bidder may withdraw or cancel a proposal at any time prior to the bid opening time. After the bid opening time, a bidder cannot withdraw or cancel the bid for a period of ninety (90) calendar days after the bid opening date.
- 18. Protest of Award.** Any person who has an objection to the awarding of a solicitation by the City, pursuant to competitive bidding procedures, shall lodge that protest, in writing, with the City identified on the bid prior to award by the City Council. A protest will not be considered after the bid is awarded by the City Council.
- 19. Additional.** The bidder or manufacturer may be required to clarify the bid or acknowledge by written confirmation that the minimum requirements of the specification are included in the bidder's proposal either before or after the bid opening but prior to the award of the contract.



GENERAL CONDITIONS

- 20. Acceptance of Bid.** After the acceptance and award of the bid, and upon receipt of a written purchase order executed by the proper officials of the City, the general conditions including the specifications will constitute part of the legal contract between the City and the successful bidder.
- 21. Execute Contract.** The Bidder further agrees to execute a Contract for this work and present the same to the City within ten (10) days after the receipt of the Notice of Award and the Contract by him.
- 22. Bonds.** The successful bidder shall furnish satisfactory performance and payment bonds within ten (10) business days after notification of the bid award in an amount not to exceed one hundred percent (100%) of the total bid price. The bonds must be originals, and provided by a bonding company acceptable to the City. Failure to furnish satisfactory performance and payment bonds within the period specified shall be cause for rejection of the bid. Sureties and bonds must meet the requirements of the Public Construction Bond Act, 30 ILCS 550/1 et seq.
- 23. Warranty and Guarantee.** Bidders shall state the nature and period of any warranty or guarantee. Manufacturer's specifications shall be submitted with the bid and shall be considered a part of the contract where such specifications meet the minimum of the City specifications. All warranties and guarantees normally provided for this type of bid will be provided to the City.

The Contractor guarantees for a period of one year from the date of acceptance of all material and workmanship.

This guarantee shall include all improvements installed and constructed as part of this project and the repair of any street, sidewalks, driveways and turf area affected by the corrective measure to rectify the defect. Should any defect arise within the guarantee period, the contractor shall remedy said defect within 15 calendar days after a written notice from the City. If the Contractor fails to make repairs within 15 days, the City may make such repairs at the expense of the Contractor and may deduct all the cost thereof from any money belonging to the Contractor that may be in the control of the Owner and may hold the Contractor and the surety liable, therefore.

Upon the acceptance of the corrective defect the guarantee will restart for a period of one year for all material and workmanship affected by this corrective work.

- 24. Standards.** Unless otherwise directed by the specifications, all materials, equipment, and services provided will meet standards or requirements which would normally be anticipated in common practice. The bidder guarantees that all applicable Federal, State and local laws, including OSHA, are being complied with in connection with this proposal and any resultant contract or purchase by the City.
- 25. Delivery.** Bidders shall state the delivery date for commodities in terms of calendar days after notification of the award. Where the contract calls for performance of labor, the bidder shall also state the number of calendar days required for completion after notification of award as well as estimated date of the start of work. Materials must be shipped F.O.B. freight prepaid, designated location, City of Lockport, Illinois. If delivery is being made by truck, arrangements for the City's receipt for the material should be made in advance. No truck deliveries will be accepted before 8:00 a.m. or after 2:00 p.m. on weekdays or all day on Saturdays, Sundays or Holidays unless specific permission has been received from the responsible City official. Bidders shall guarantee delivery of supplies in accordance with the delivery schedule provided in the specifications and proposal. The City reserves the right to charge the contractor or vendor for each day the supplies or services are not delivered in accordance with the delivery schedule. Failure to complete work on time is subject to a daily charge and said sum to be taken as liquidated damages and deducted from the final payment, or charged back to the contractor or vendor.
- 26. Materials and Equipment.** Except where the specifications indicate otherwise, the City is not responsible to provide any tools, equipment or storage to the contractor in order to permit the completion of any contractual obligations under any contract which may be awarded as the result of the bid.



GENERAL CONDITIONS

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- 27. Material Inspection.** Authorized agents of the City shall have a right to inspect any material to be used in carrying out the proposal. The contractor shall be responsible for the contracted quality and standards of all materials, components or completed work furnished under this proposal until final acceptance by the City. Materials, components or completed work not complying therewith may be rejected by the City and shall be replaced by the contractor at no expense to the City. Any material or component rejected shall be removed from the premises of the City at the entire expense of the contractor, after written notice by the City to contractor that such materials or components have been rejected.
- 28. Catalogues or Literature.** Each bidder shall submit all necessary catalogues, descriptive literature, and other documentation needed to fully describe the material or work proposed to be furnished and approved by the City.
- 29. M.S.D.S.** Contractor is to supply (M.S.D.S.) Materials Safety Data Sheets in accordance with Federal Requirements, if applicable.
- 30. Other Requirements.** The bidder certifies that any equipment to be furnished shall be new, current model, standard production, and fully operable unless otherwise indicated on the bid form. Operating and maintenance manuals will be furnished at no cost.
- 31. Financial Obligations.** Any bidder, including owners and corporate officers of said firm, with outstanding financial obligations to the City at the time of this bid, must satisfy all outstanding financial obligations prior to being considered for recommendation of contract award submitted under this proposal/bid.
- 32. Indemnity.** If a contract is awarded, the successful bidder shall indemnify and hold the City harmless from and against all liability and expenses, including attorney's fees, howsoever arising or incurred, alleging damage to property or injury to, or death of, any person, arising out of or attributable to the bidder's performance of the contract awarded. Any property or work to be provided by the bidder under this contract will remain at the bidder's risk until written acceptance by the City. The bidder will replace, at bidder's expense, all property or work damaged or destroyed by any cause.
- 33. Patents.** The Bidder shall defend any suit or proceeding brought against the City so far as based on a claim on any equipment, or on any part thereof, furnished under this contract which constitutes an infringement of any patent of the United States, if notified promptly in writing and given authority, information and assistance (at the bidder's expense) for the defense of same, and the bidder shall pay all damages and costs awarded therein against the City. In case said equipment or any part thereof, in such suit is held to constitute infringement and the use of said equipment or part is enjoined, the bidder shall, at its own expense, either procure for the City the right to continue using said equipment, or part, or replace same with non-infringing equipment, or modify it so that it becomes non-infringing. Bidders agree to defend and hold the City "harmless" from and against all demands, claims, suits, costs, expenses, damages and adjustments based upon any infringement of any patent relating to goods specified in the contract.
- 34. Public Advertising.** The successful bidder is specifically denied the right of use in any form or medium the name of the City for public advertising unless the City grants express permission
- 35. Termination for Convenience.** The City may terminate a contract, in whole or in part, whenever the City determines that such termination is in the best interest of the City, without showing cause, upon giving written notice to the contractor. The City shall pay all reasonable costs incurred by the contractor up to the date of termination. However, in no event shall the contractor be paid an amount that exceeds the price bid for the work performed. The contractor shall not be reimbursed for any profits which may have been anticipated but which have not been earned up to the date of termination



GENERAL CONDITIONS

- 36. Termination for Default.** When the contractor has not performed or has unsatisfactorily performed under the contract, the City may terminate the contract for default. The City may terminate a contract by providing written notice of default to the contractor if:
- a) the contractor fails to make delivery of the materials or perform the services within the time specified in the contract;
 - b) the contractor fails to make progress so as to endanger performance of the contract; or,
 - c) the contractor fails to provide or maintain in full force and effect the insurance coverages or bonds as are required.

In case of default by the contractor, the City may procure similar supplies or services from other sources and may deduct from the unpaid balance due the contractor, or may collect against the bond or surety for excess costs so paid, and the prices paid by the City shall be considered the prevailing market price at the time such purchase is made.

- 37. Required Insurance.** Contractor shall maintain for the duration of this contract and any extensions thereof insurance issued by a company or companies qualified to do business in the State of Illinois. The insurance companies providing coverage shall be rated in the Best's Key Rating Guide. The City will accept companies with a rating of A- or better and shall have a financial size category of VII or better.

WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY:

Workers Compensation Statutory Limits

EMPLOYER'S LIABILITY

Each Accident	\$1,000,000
Disease - policy limit	\$1,000,000
Disease - each employee	\$1,000,000

COMPREHENSIVE GENERAL LIABILITY:

General Aggregate Limit	\$2,000,000
Products-Completed Operations	\$2,000,000
Each Occurrence Limit	\$1,000,000

The City must be named as an additional insured on General Liability policy. The City may accept a separate owners and contractors protective (OCP) liability policy provided all coverage, limits and endorsements are in conformity with this section and that the City is a named insured on the policy.

COMMERCIAL AUTOMOBILE LIABILITY - The policy shall cover all owned, non-owned and hired vehicles.

Combined Single Limit	\$1,000,000
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Contractor agrees that with respect to above insurance, the City shall:

- a) Be provided with thirty (30) days written notice of cancellation or material change.
- b) Be provided with Certificates of Insurance evidencing the above required insurance, within ten (10) business days after notice of award and thereafter with certificates evidencing renewals or replacements of said insurance policies at least fifteen (15) days prior to expiration of any such policies. Said Notices and Certificates of Insurance shall be provided to the City identified on the bid, City of Lockport, 17112 Prime Boulevard, Lockport, Illinois 60441.



PROPOSAL

To the City of Lockport:

The undersigned, having familiarized ourselves with the local conditions affecting the cost of the work and with the Contract Documents, including the Invitation for Bids, General Conditions, Standard Specifications, Special Provisions, Form of Proposal, Form of Contract, Form of Performance Bond, etc., and with the plans and specifications and addenda thereto if any and understanding that in making this proposal he/she waives all right to plead any misunderstanding regarding the same; the undersigned hereby proposes to perform all specified work and to provide and furnish all labor, materials, tools, expendable equipment, and all utility and transportation services necessary to complete in a workmanlike manner all work required in connection with the construction of the

City of Lockport – 11th Street Parking Lot (26-109)

to be constructed by said Municipality, all in accordance with the plans and specifications issued thereto, for the following prices; it being understood that each of the items is to be constructed complete in place and ready for use, including all labor, materials and equipment of every kind and nature necessary to construct the work as specified as well as all other appurtenant and accessory construction and that each item shall be constructed in all respects so as to accomplish the purpose for which the same was intended by the said plans and specifications.

1. It is understood and agreed by the undersigned that the Municipality reserves the unrestricted privilege to reject any bid should any unit prices be abutted, or any bid which are noticeably unbalanced, all at the sole discretion of the Municipality.
2. The aggregate total of the above lump sum (if any) and unit price items, based on the estimated quantities, shall be the basis for the establishing of the amount of the performance bond and for comparison of bids. Said total in the case of unit price bids, shall not be understood to be a single lump sum proposal or contract price.
3. If awarded this contract, the undersigned agrees to commence work within ten (10) calendar days after execution and acceptance of the contract. The undersigned further agrees to complete the work to the satisfaction of the Municipality within the completion date specified after the notice to proceed with construction.
4. Accompanying this Proposal is a bid bond, certified check, bank draft or irrevocable letter of credit payable to said Municipality in the amount of ten percent (10%) of the amount bid which it is agreed will be forfeited to said Municipality, if the undersigned fails to execute the contract in conformance with the form of contract incorporated in the Contract Documents and furnish performance bond as specified within ten (10) days after notification of the award of contract to the undersigned. The amount of the bid security is \$_____.
5. In submitting this bid, it is understood that the right is reserved by said Municipality to reject any and all bids. It is agreed that this bid may not be withdrawn for a period of sixty (60) days from the opening thereof.
6. Each pay item shall have a unit price and a total price.
7. The unit price shall govern if there is a discrepancy between the product of the unit price multiplied by the quantity.



8. A bid will be declared unacceptable if neither a unit price nor a total price is shown.
9. The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
10. In submitting this bid, the Contractor guarantees all work for a period of one (1) year after final acceptance of the project by the owner against faulty materials and/or workmanship. If any defects become apparent within the guaranty period, the Contractor shall repair said defects at his cost and to the satisfaction of the owner. Contractor agrees to sign 1 year guarantee letter furnished by the Municipality prior to final acceptance.



(If an Individual)

Signature of Bidder_____

Business Address_____

(If a co-partnership)

(Seal)

Firm Name_____

Signed By_____ (Seal)

Business Address_____

(Insert Names and
Addresses of all
Partners of the
Firm)

(If a Corporation)

Corporate Name_____

Signed By_____

President

Business Address_____

(Corporate Seal)

(Insert Names of
Officers)

President_____

Secretary_____

Treasurer_____

Attest:_____

Secretary

(Note: Bidders should not add any conditions or qualifying statements to this bid, since under these circumstances, the bid may be declared irregular as being not responsive to the advertisement for bids).



ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL BID COST
20200100	EARTH EXCAVATION	CU YD	800	\$	\$
20200200	ROCK EXCAVATION	CU YD	189	\$	\$
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	146	\$	\$
21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	38	\$	\$
28000510	INLET FILTERS	EACH	2	\$	\$
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	748	\$	\$
35300100	PORTLAND CEMENT CONCRETE BASE COURSE 6"	SQ YD	174	\$	\$
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	104	\$	\$
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	69	\$	\$
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,352	\$	\$
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	218	\$	\$
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	79	\$	\$



ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL BID COST
44000300	CURB REMOVAL	FOOT	48	\$	\$
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	189	\$	\$
44000600	SIDEWALK REMOVAL	SQ FT	1,483	\$	\$
52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	585	\$	\$
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$	\$
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	\$	\$
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	160	\$	\$
72000100	SIGN PANEL - TYPE 1	SQ FT	34	\$	\$
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	4	\$	\$
72400205	REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	\$	\$
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	110	\$	\$
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	32	\$	\$



ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL BID COST
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	344	\$	\$
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	28	\$	\$
78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	10	\$	\$
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	366	\$	\$
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	104	\$	\$
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	\$	\$
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	\$	\$
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	37	\$	\$
81702180	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	37	\$	\$
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	29	\$	\$
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	1	\$	\$
84200804	REMOVAL OF POLE FOUNDATION	EACH	1	\$	\$



ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL BID COST
X0540000	BRICK PAVERS	SQ FT	1,563	\$	\$
X0696100	PARKING BLOCKS	EACH	3	\$	\$
X5220101	RETAINING WALL REMOVAL	SQ FT	88	\$	\$
X5230168	BUILDING DOWNSPOUT CONNECTIONS	EACH	1	\$	\$
X6022040	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	1	\$	\$
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	1	\$	\$
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	324	\$	\$
X6064200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	235	\$	\$
X6640104	FENCE REMOVAL	FOOT	43	\$	\$
XX005565	REMOVE AND RESET BRICK PAVERS	SQ FT	240	\$	\$
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	\$	\$
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	\$	\$



ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL BID COST
	TRENCH BACKFILL (SPECIAL)	CU YD	30	\$	\$
	MONTAGE MAJESTIC 3-RAIL FENCE, 4' HEIGHT	FOOT	131	\$	\$
	REPLACING SANITARY SERVICE, 6"	FOOT	72	\$	\$
	CATCH BASIN, SPECIAL, WITH 2 TYPE 1 FRAMES AND OPEN LIDS	EACH	1	\$	\$
	CONCRETE CURB PLANTER WITH COPING	FOOT	95	\$	\$
	SIGN POLE FOUNDATION, 36"	FOOT	10	\$	\$
	DETECTABLE WARNINGS (CAST IRON)	SQ FT	100	\$	\$
	ELECTRIC CABLE INSTALLED ON POLE, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	60	\$	\$
	EV CHARGER REMOVAL AND REINSTALLATION WITH CONCRETE FOUNDATION	L SUM	1	\$	\$
	EV CHARGER CONTROLLER, BASE MOUNTED, 240 VOLT, 200 AMP	EACH	1	\$	\$
	EXPLORATION TRENCH (SPECIAL)	EACH	5	\$	\$
	HARDWOOD MULCH, 4"	SQ YD	177	\$	\$



ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL BID COST
	LIGHTING UNIT COMPLETE (DECORATIVE)	EACH	1	\$	\$
	LIGHTING UNIT COMPLETE (STANDARD DOUBLE)	EACH	1	\$	\$
	LIGHTING UNIT COMPLETE (STANDARD)	EACH	1	\$	\$
	PAVEMENT REMOVAL (FULL DEPTH)	SQ YD	473	\$	\$
	PORTLAND CEMENT CONCRETE SIDEWALK (SPECIAL)	SQ FT	2,194	\$	\$
	PRECONSTRUCTION VIDEOTAPING	LSUM	1	\$	\$
	ROUTE 66 SIGN POLE, INSTALL ONLY	EACH	1	\$	\$
	SEAL COATING	SQ YD	178	\$	\$
	STORM SEWER, 12"	FOOT	69	\$	\$
	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	178	\$	\$



BID SUMMARY

BID

BID	\$
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(FIGURES)

BIDDER'S PROPOSAL FOR BID – 11th STREET PARKING LOT

WORDS

The City of Lockport reserves the right to award the contract to the lowest responsible Bidder for the Base Bid or for the Base Bid plus any combination of the Alternate(s), based upon the City's best financial interest. Providing the lowest bid on the Base Bid or an individual Bid Alternate does not guarantee the Contractor will be awarded the contract, as the Contractor will need to be the lowest bidder on the combination of the Base Bid and Bid Alternates that the City ultimately selects at its own discretion.

Each Bidder must submit bids for the Base Bid and all Alternates to be eligible for the award of the contract. Failure to do so may result in rejection of the CONTRACTOR's bid.



PROPOSAL BID BOND

WE _____
_____ as PRINCIPAL, and _____
_____ as SURETY, are held firmly bound unto the City of Lockport
(hereinafter referred to as "LA") in the penal sum of 10% of the total bid price. We bind ourselves, our heirs,
executors, administrators, successors, and assigns, jointly to pay to the LA this sum under the conditions of
this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL
is submitting a written proposal to the LA acting through its awarding authority for the construction of the
work designated as the above section.

THEREFORE, if the proposal is accepted and a contract awarded to the PRINCIPAL by the LA for the above-
designated section, and the PRINCIPAL shall within ten (10) days after award enter into a formal contract,
furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required
insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and
applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in
full force and effect.

IN THE EVENT the LA determines the PRINCIPAL has failed to enter into a formal contract in compliance
with any requirements set forth in the preceding paragraph, then the LA acting through its awarding authority
shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all
attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be
signed by their respective officers this _____ day of _____ A.D. 20__.

Principal

(Company Name)

(Company Name)

By: _____
(Signature & Title)

By: _____
(Signature & Title)

(If PRINCIPAL is a joint venture of two or more contractors, the company names, and authorized
signatures of each contractor must be affixed.)



Surety

(Name of Surety)

By: _____
(Signature of Attorney-in-Fact)

STATE OF ILLINOIS,
COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify
that _____

(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed, and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____ A.D. 20__.

My commission expires _____.

Notary Public

NOTICE

1. Improper execution of this form (i.e. missing signatures or seals or incomplete certification) will result in bid being declared irregular.
2. If bid bond is used in lieu of proposal guaranty check, it must be on this form and must be submitted with bid.



CERTIFICATE OF COMPLIANCE

The undersigned, being first duly sworn on oath, deposes and states that he or she has the authority to make this certification on behalf of the bidder,

(Name of Company)

That in submission of this proposal:

Anti-Collusion Affidavit of Compliance: That bid is genuine and not collusive or sham; that said bidder has not colluded, conspired, connived or agreed directly or indirectly with any bidder or person to put in a sham bid or to refrain from bidding; and has not in any manner directly or indirectly sought by agreement or collusion or communication or conference with any person to fix the bid price element of said bid or that of any other bidder; or to secure any advantage against any other bidder or any person interested in the proposed contract.

No Suspension or Debarment: The bidder is not presently debarred, suspended, proposed for debarment, declared ineligible or otherwise excluded from contracts by any federal agency or department of the United States, or by the State of Illinois pursuant to any provision in Title 44 of the administrative code.

No Delinquency in Payment of Tax: That bidder is not barred from contracting with the City of Lockport because of any delinquency in the payment of any tax administered by the Department of Revenue unless the individual or entity is contesting, in accordance with the procedures established by the appropriate revenue act, liability for the tax, or the amount of the tax.

Illinois Human Rights Act: That bidder is presently in compliance and agrees to comply with all applicable provisions of the Illinois Human Rights Act, together with all rules and regulations promulgated and adopted pursuant thereto. As such, the bidder complies with the requirement to provide annual sexual harassment prevention training as amended by Public Act 101-0221.

Conflict of Interest: The bidder agrees to comply with the provisions of Public Officer Prohibited Activities Act (50 ILCS 105/3 et seq), and the terms, conditions and provisions of those Sections apply to this Agreement and are made a part of this Agreement the same as though they were incorporated and included herein. If any City officer or employee has a prohibited interest, this Agreement may be cancelled without charge or penalty to the City.

Americans with Disabilities Act of 1990: In submission of any proposal, the bidder acknowledges and warrants that the work or service shall be designed in full compliance with the Americans with Disabilities Act (42 U.S.C. 12101 et seq.) and with applicable regulations and accessibility guidelines there under. In addition, the bidder acknowledges the Environmental Barriers Act (410 ILCS 25/1 et seq.) and its regulations in the Illinois Accessibility Code (71 IL Admin. Code Sections 400.110 et seq.). That all products, services, and programs conform to, and be delivered in a manner consistent with the American Disabilities Act. As a condition of receiving a contract with the Village, the vendor certifies that services, programs, and activities provided under said contract are and will continue to be in compliance with the ADA. Further, the vendor agrees to indemnify the City against any and all claims and the costs of legal defense resulting from the vendor's failure to be in compliance with the ADA.

Tax Compliance: That bidder is presently in compliance and agrees to comply with all applicable provisions of the Illinois Tax Compliance Act, together with all rules and regulations promulgated and adopted pursuant thereto.



CERTIFICATE OF COMPLIANCE (continued)

Employment of Illinois Labor and Prevailing Wage: In submission of any proposal, the bidder is agreeing to comply with provisions of the Employment of Illinois Workers on Public Works Act, 30 ILCS 570/ *et seq.*, and the Illinois Prevailing Wage Act 820 ILCS 130/0.01 *et seq.* The IL Prevailing Wage Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects, as defined by the Act, no less than the current “prevailing rate of wages” (hourly cash wages plus amount for fringe benefits) in the county where the work is performed.. The prevailing rates and information regarding compliance may be obtained on the IL Dept of Labor web site: <http://labor.illinois.gov/>. The Department revises the prevailing wage rates and the contractor/subcontractor has an obligation to check the Department’s web site for revisions to prevailing wage rates.

Substance Abuse Prevention on Public Works Projects Act: The undersigned certifies that it has in place a written program that meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act, 820 ILCS 265/1 *et seq.*, and has provided a written copy thereof to the City of Lockport or that it has in place a collective bargaining agreement which deals with the subject matter of the Substance Abuse Prevention on Public Works Projects Act.

Fair Employment Practices: The bidder, in the submission of a proposal, assures the City that he/she is an "Equal Opportunity Employer" as defined by Section 2000(E) of Chapter 21, Title 42 of the United States Code Annotated and Federal Executive Orders #11246 and #11375 which are incorporated herein by reference, and as such, will not discriminate against any person by reason of race, creed, color, religion, age, sex, or physical and mental handicaps with respect to the hiring, application for employment, tenure, terms or condition of employments of any person.

Freedom of Information Act: The bidder agrees to comply with provisions of the Freedom of Information Act, 5 ILCS 140/1 *et seq.*, and shall maintain all records and documents related to any work performed for the City. In addition, Bidder shall produce records which are responsive to requests received by the City under the Freedom of Information Act so that the City may provide records to those requesting them within the required timeframe. If additional time is necessary to respond to a request, the Bidder shall notify the City immediately, and the City shall request an extension to comply with the Act. In the event the City is found to be non-compliant with the Freedom of Information Act due to the Bidder’s failure to produce documents or otherwise appropriately respond to a request under the Act, then Bidder shall indemnify and hold the City harmless, and pay all amounts determined to be due, including, but not limited to fines, costs, attorney’s fees and penalties.

No Collusion: The Contractor represents and certifies that the Contractor is not barred from contracting with a unit of state or local government as a result of (i) a delinquency in the payment of any tax administered by the Illinois Department of Revenue unless the Contractor is contesting, in accordance with the procedures established by the appropriate revenue act, its liability for the tax or the amount of the tax, as set forth in Section 11-42.1-1 *et seq.* of the Illinois Municipal Code, 65 ILCS 5/11-42.1-1 *et seq.*; or (ii) a violation of either Section 33E-3 or Section 33E-4 of Article 33E of the Criminal Code, 720 ILCS 5/33E-1 *et seq.* The Contractor represents that the only persons, firms, or corporations interested in this Agreement as principals are those disclosed to the City prior to the execution of this Agreement, and that this Agreement is made without collusion with any other person, firm, or corporation. If at any time it shall be found that the Contractor has, in procuring this Agreement, colluded with any other person, firm, or corporation, then the Contractor shall be liable to the City for all loss or damage that the City may suffer, and this Agreement shall, at the City’s option, be null and void.



CERTIFICATE OF COMPLIANCE (continued)

Responsible Bidder Ordinance: The Contractor shall comply with the City's Responsible Bidder Ordinance, Section 33.22 of the Lockport Code of Ordinances.

Illinois Prevailing Wage Act: The Contractor shall comply with the Illinois Prevailing Wage Act.

Patriot Act Compliance: The Contractor represents and warrants to the City that neither it nor any of its principals, shareholders, members, partners, or affiliates, as applicable, is a person or entity named as a Specially Designated National and Blocked Person (as defined in Presidential Executive Order 13224) and that it is not acting, directly or indirectly, for or on behalf of a Specially Designated National and Blocked Person. The Contractor further represents and warrants to the City that the Contractor and its principals, shareholders, members, partners, or affiliates, as applicable, are not, directly or indirectly, engaged in, and are not facilitating, the transactions contemplated by this Agreement on behalf of any person or entity named as a Specially Designated National and Blocked Person. The Contractor hereby agrees to defend, indemnify and hold harmless the City, its corporate authorities, and all City elected or appointed officials, officers, employees, agents, representatives, engineers, and attorneys, from and against any and all claims, damages, losses, risks, liabilities, and expenses (including reasonable attorneys' fees and costs) arising from or related to any breach of the representations and warranties in this subsection.

Contractor

ATTEST:

DATE: _____



HOLD HARMLESS AGREEMENT

The Contractor agrees to indemnify and defend the City of Lockport, its officers, agents and employees and each of them, against and hold it and them harmless from any and all lawsuits, claims, demands, liabilities, losses and expenses, including court costs and attorneys' fees, for or on account of any injury to any person, or any death at any time resulting from such injury, or any damage to any property, which may arise (or which may be alleged to have arisen) out of or in connection with the work covered by this Agreement. The foregoing indemnity (together with Contractor's obligation to defend) shall apply unless it shall be found by a court of competent jurisdiction that such injury, death or damage shall have been caused solely by the negligence of the City of Lockport, its officers and employees, or any of them. The City of Lockport shall be entitled to withhold from any payment otherwise due pursuant to this Agreement such amount or amounts as may be reasonably necessary to protect it against liability from any personal injury, death or property damage resulting from the performance of the work hereunder.

City of Lockport

Contractor

Signature

Signature

Title

Title

Date

Date



CONTRACTOR'S DRUG-FREE WORKPLACE CERTIFICATION

Pursuant to Chapter 30, Section 580/1 of the Illinois Compiled Statutes (30 ILCS 580/1) et. seq. entitled "Drug Free Workplace Act", the undersigned contractor hereby certifies to the contracting agency that it will provide a drug-free workplace by:

(a) Publishing a statement:

- (1) Notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance, including cannabis, is prohibited in the grantee's of contractor's workplace.
- (2) Specifying the actions that will be taken against employees for violations of such prohibition.
- (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (A) abide by the terms of the statement; and
 - (B) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than 5 days after such conviction.

(b) Establishing a drug free awareness program to inform employees about:

- (1) the dangers of drug abuse in the workplace;
 - (2) the grantee's or contractor's policy of maintaining drug free workplace;
 - (3) any available drug counseling, rehabilitation, and employee assistance program; and
 - (4) the penalties that may be imposed upon employees for drug violations.
- (c) Making it a requirement to give a copy of the statement required by subsection (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- (d) Notifying the contracting agency within 10 days after receiving notice under part (B) of paragraph (3) of subsection (a) from an employee or otherwise receiving actual notice of such conviction.



CONTRACTOR'S DRUG-FREE WORKPLACE CERTIFICATION (continued)

- (e) Imposing a sanction on, or requiring the satisfactory participation in a drug assistance or rehabilitation program by any employee who is so convicted, as required by Section 5 (30 ILCS 580/5) of the Act.
- (f) Assisting employees in selecting a course of action in the event drug counseling treatment, and rehabilitation is required and indicating that a trained referral team in place.
- (g) Making a good faith effort to continue to maintain a drug free workplace through implementation of this Section.

Failure to abide by this certification shall subject the contractor to the penalties provided in Section 6 (30 ILCS 580/6) of the Act.

Contractor

ATTEST:

DATE: _____



SEXUAL HARASSMENT CERTIFICATE

_____ hereinafter referred to as "Contractor" hereby certifies that said Contractor has a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105(A)(4) including the following information:

1. An acknowledgment of the illegality of sexual harassment.
2. The definition of sexual harassment under State law.
3. A description of sexual harassment, utilizing examples.
4. The contractor's internal complaint process including penalties.
5. The legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission.
6. Directions on how to contact the Department of the Commission.
7. An acknowledgment of protection of a complaint against retaliation as provided in Section 6-101 of the Human Rights Act.

Each contractor must provide a copy of such written policy to the Illinois Department of Human Rights upon request.

By: _____
Authorized Agent of Contractor

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

Notary Public



EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATE

_____ hereinafter referred to as "Contractor" hereby certifies it is under no legal prohibition on contracting with the State of Illinois or the City of Lockport, has no known conflicts of interest and further specifically certifies that:

CONTRACTOR, its employees and subcontractors will comply with applicable provisions of the U.S. Civil Rights Act; Section 504 of the Federal Rehabilitation Act; the Americans with Disabilities Act (42 U.S.C. 12101 et seq.); Section 2000(e) of Chapter 21, Title 42 of the United States Code; Federal Executive Order No. 11246 as amended by Executive Order No. 11375 and applicable rules in performance under this CONTRACT.

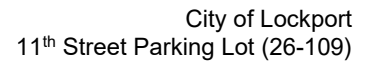
CONTRACTOR complies with the Illinois Department of Human Rights Act and rules applicable to public contracts, including equal employment opportunity and refraining from unlawful discrimination (**775 ILCS 5/2-105**).

CONTRACTOR does not pay dues to, or reimburse or subsidize payments by its employees for, any dues or fees to any "discriminatory club" (**775 ILCS 25/2**).

By: _____
Authorized Agent of Contractor

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

Notary Public





APPRENTICESHIP AND TRAINING CERTIFICATE (continued)

The requirements of this certification and disclosure are a material part of the contract and the CONTRACTOR shall require this certification provision to be included in all approved subcontracts. In order to fulfill this requirement, it shall not be necessary that an applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract.

By: _____
Authorized Agent of Contractor

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

Notary Public



TAXPAYER IDENTIFICATION NUMBER

I certify that:

The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), **and**

I am not subject to backup withholding because: a) I am exempt from backup withholding, or b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of failure to report all interest or dividends, or c) the IRS has notified me that I am no longer subject to backup withholding, **and**

I am a U.S. person (including a U.S. resident alien).

Name: _____

Taxpayer Identification Number:

Social Security Number _____

or

Employer Identification Number _____

(If you are an individual, enter your name and SSN as it appears on your Social Security Card. If completing this certification for a sole proprietorship, enter the owner's name followed by the name to the business and the owner's SSN or EIN. For all other entities, enter the name of the entity as used to apply for the entity's EIN and the EIN.)

Legal Status (check one):

- | | |
|---|---|
| ☐ Individual | ☐ Government |
| ☐ Sole Proprietor | ☐ Nonresident Alien |
| ☐ Partnership/ Legal Corporation | ☐ Estate or Trust |
| ☐ Tax-Exempt | ☐ Pharmacy (Non-Corp.) |
| ☐ Corporation providing or
billing medical and/or
health care services | ☐ Pharmacy/Funeral Home/Cemetery
(Corp) |
| ☐ Corporation NOT providing
or billing medical and/or
health care services | ☐ Other: _____ |

Will County Prevailing Wage Rates posted on 7/15/2026

						Overtime										
Trade Title	Rg	Type	C	Base	Foreman	M-F	Sa	Su	Hol	H/W	Pension	Vac	Trng	Other Ins	Add OT 1.5x owed	Add OT 2.0x owed
ASBESTOS ABT-GEN	All	ALL		53.00	54.00	1.5	1.5	2.0	2.0	19.86	18.34	0.00	0.91		0.00	0.00
ASBESTOS ABT-MEC	All	BLD		43.52	47.00	1.5	1.5	2.0	2.0	17.84	16.75	0.00	1.01		3.42	6.84
BOILERMAKER	All	BLD		62.06	67.64	2.0	2.0	2.0	2.0	7.07	27.81	0.00	3.69	2.72	0.00	40.50
BRICK MASON	All	BLD		54.81	60.29	1.5	1.5	2.0	2.0	14.74	25.51	0.00	1.59	0.00	13.05	17.40
CARPENTER	All	ALL		58.51	64.36	2.0	2.0	2.0	2.0	14.49	31.73	2.56	1.04		0.00	0.00
CEMENT MASON	All	ALL		48.85	50.85	2.0	1.5	2.0	2.0	13.37	33.80	0.00	0.80	0.00	0.00	0.00
CERAMIC TILE FINISHER	All	BLD		51.09	51.09	1.5	1.5	2.0	2.0	14.00	18.32	0.00	1.41	0.00	17.32	23.08
CERAMIC TILE LAYER	All	BLD		59.44	64.44	1.5	1.5	2.0	2.0	14.00	22.43	0.00	1.54	0.00	23.67	31.56
COMMUNICATION TECHNICIAN	All	BLD		48.00	52.80	1.5	1.5	2.0	2.0	18.59	19.52	0.00	0.78	2.42	0.00	0.00
CONCRETE SPECIALIST	All	BLD		53.56	60.18	1.5	1.5	2.0	2.0	14.74	26.81	0.00	1.59	0.00	15.00	20.00
CONCRETE SPECIALIST WELDER	All	BLD		56.24	60.18	1.5	1.5	2.0	2.0	14.74	26.81	0.00	1.59	0.00	15.00	20.00
ELECTRIC PWR EQMT OP	All	ALL		67.18	73.73	1.5	1.5	2.0	2.0	12.99	23.34	0.00	3.69	0.00	0.00	0.00
ELECTRIC PWR GRNDMAN	All	ALL		52.40	73.73	1.5	1.5	2.0	2.0	10.13	18.20	0.00	2.87	0.00	0.00	0.00
ELECTRIC PWR LINEMAN	All	ALL		67.18	73.73	1.5	1.5	2.0	2.0	12.99	23.34	0.00	3.69	0.00	0.00	0.00
ELECTRICIAN	All	BLD		61.00	66.49	1.5	1.5	2.0	2.0	18.98	23.33	0.00	1.45	5.50	0.00	0.00
ELEVATOR CONSTRUCTOR	All	BLD		73.65	82.86	2.0	2.0	2.0	2.0	16.37	21.76	5.89	0.80		0.00	0.00
GLAZIER	All	BLD		55.35	56.85	1.5	2.0	2.0	2.0	16.54	27.36	0.00	2.35	0.00	0.00	0.00
HEAT/FROST INSULATOR	All	BLD		58.02	61.50	1.5	1.5	2.0	2.0	17.84	20.05	0.00	1.01		5.07	10.14
IRON WORKER	All	ALL		54.50	59.95	2.0	2.0	2.0	2.0	15.16	31.82	0.00	1.35	0.00	0.00	0.00
LABORER	All	ALL		53.00	53.75	1.5	1.5	2.0	2.0	19.86	18.34	0.00	0.91		0.00	0.00
LATHER	All	ALL		58.51	64.36	2.0	2.0	2.0	2.0	14.49	31.73	2.56	1.04		0.00	0.00
MACHINIST	All	BLD		61.89	65.89	1.5	1.5	2.0	2.0	14.43	9.95	1.85	1.47		0.00	0.00
MARBLE FINISHER	All	ALL		41.74	56.44	1.5	1.5	2.0	2.0	14.74	22.81	0.00	1.01	0.00	9.00	12.00
MARBLE SETTER	All	BLD		53.75	59.13	1.5	1.5	2.0	2.0	14.74	24.78	0.00	1.27	0.00	11.96	15.94
MATERIAL TESTER I	All	ALL		43.00		1.5	1.5	2.0	2.0	19.86	18.34	0.00	0.91		0.00	0.00
MATERIALS TESTER II	All	ALL		48.00		1.5	1.5	2.0	2.0	19.86	18.34	0.00	0.91		0.00	0.00

Will County Prevailing Wage Rates posted on 7/15/2026

MILLWRIGHT	All	ALL		58.51	64.36	2.0	2.0	2.0	2.0	14.49	31.73	2.56	1.04		0.00	0.00
OPERATING ENGINEER	All	BLD	1	68.80	72.80	2.0	2.0	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	2	67.50	72.80	2.0	2.0	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	3	64.95	72.80	2.0	2.0	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	4	63.20	72.80	2.0	2.0	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	5	72.55	72.80	2.0	2.0	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	6	69.80	72.80	2.0	2.0	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	7	71.80	72.80	2.0	2.0	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	1	78.55	78.55	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.90	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	2	77.05	78.55	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.90		0.00	0.00
OPERATING ENGINEER	All	FLT	3	72.55	78.55	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.90	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	4	68.05	78.55	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.90	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	5	80.05	78.55	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.90	0.00	0.00	0.00
OPERATING ENGINEER	All	FLT	6	68.05	78.55	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.90	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	1	67.00	71.00	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	2	66.45	71.00	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	3	64.40	71.00	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	4	63.00	71.00	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	5	61.80	71.00	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	6	70.00	71.00	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
OPERATING ENGINEER	All	HWY	7	68.00	71.00	1.5	1.5	2.0	2.0	25.95	22.30	2.00	2.80	0.00	0.00	0.00
PAINTER	All	ALL		56.30	63.34	1.5	1.5	1.5	2.0	16.86	18.24	0.00	1.86	0.00	0.00	0.00
PAINTER - SIGNS	All	BLD		48.16	54.11	1.5	1.5	2.0	2.0	8.20	16.81	0.00	0.00	0.00	0.00	0.00
PILEDRIIVER	All	ALL		58.51	64.36	2.0	2.0	2.0	2.0	14.49	31.73	2.56	1.04		0.00	0.00
PIPEFITTER	All	BLD		59.50	62.50	1.5	1.5	2.0	2.0	16.00	23.85	0.00	2.87	0.00	0.00	0.00
PLASTERER	All	BLD		54.98	58.28	1.5	1.5	2.0	2.0	18.50	22.10	0.00	1.25		0.00	0.00
PLUMBER	All	BLD		62.00	65.70	1.5	1.5	2.0	2.0	20.85	18.00	0.00	2.17		0.00	0.00
ROOFER	All	BLD		53.75	58.75	1.5	1.5	2.0	2.0	12.95	18.19	0.00	1.14	0.00	0.00	0.00
SHEETMETAL WORKER	All	BLD		60.89	65.76	1.5	1.5	2.0	2.0	18.91	19.90	0.00	1.82	2.72	0.00	0.00
SPRINKLER FITTER	All	BLD		63.20	65.95	1.5	1.5	2.0	2.0	15.45	19.95	0.00	1.15	0.00	0.00	0.00

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STONE MASON	All	BLD		54.81	60.29	1.5	1.5	2.0	2.0	14.74	25.51	0.00	1.59	0.00	13.05	17.40
SURVEY WORKER	All	BLD		60.00	61.00	1.5	1.5	2.0	2.0	20.50	14.95	0.00	1.59		0.00	0.00
SURVEY WORKER	All	HWY		60.00	61.00	2.0	2.0	1.5	1.5	20.50	14.95	0.00	1.59		0.00	0.00
TERRAZZO FINISHER	All	BLD		53.44	53.44	1.5	1.5	2.0	2.0	14.00	19.59	0.00	1.14	0.00	13.89	18.52
TERRAZZO MECHANIC	All	BLD		57.35	60.85	1.5	1.5	2.0	2.0	14.00	20.97	0.00	1.50	0.00	14.63	19.50
TRAFFIC SAFETY WORKER I	All	HWY		44.65	46.65	1.5	1.5	2.0	2.0	11.00	10.33	0.00	1.05	0.00	0.00	0.00
TRAFFIC SAFETY WORKER II	ALL	HWY		45.65	47.65	1.5	1.5	2.0	2.0	11.00	10.33	0.00	1.05	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	1	50.74	51.29	1.5	1.5	2.0	2.0	12.65	14.90	0.00	0.35	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	2	50.89	51.29	1.5	1.5	2.0	2.0	12.65	14.90	0.00	0.35	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	3	51.09	51.29	1.5	1.5	2.0	2.0	12.65	14.90	0.00	0.35	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	4	51.29	51.29	1.5	1.5	2.0	2.0	12.65	14.90	0.00	0.35	0.00	0.00	0.00
TUCK POINTER	All	BLD		53.53	54.53	1.5	1.5	2.0	2.0	12.05	23.73	0.00	1.48	0.00	0.00	0.00

Legend

Rg Region

Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers

C Class

Base Base Wage Rate

OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

OT Sa Overtime pay required for every hour worked on Saturdays

OT Su Overtime pay required for every hour worked on Sundays

OT Hol Overtime pay required for every hour worked on Holidays

H/W Health/Welfare benefit

Vac Vacation

Trng Training

Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations WILL COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

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EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS TECHNICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice, sound and vision production and reproduction, telephone and telephone interconnect, facsimile, equipment and appliances used for domestic, commercial, educational and entertainment purposes, pulling of wire through conduit but not the installation of conduit.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of

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interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under; Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

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OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines; ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small

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Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEER - FLOATING

Class 1. Craft Foreman; Master Mechanic; Diver/Wet Tender; Engineer; Engineer (Hydraulic Dredge).

Class 2. Crane/Backhoe Operator; Boat Operator with towing endorsement; Mechanic/Welder; Assistant Engineer (Hydraulic Dredge); Leverman (Hydraulic Dredge); Diver Tender.

Class 3. Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more); Tug/Launch Operator; Loader/Dozer and like equipment on Barge, Breakwater Wall, Slip/Dock, or Scow, Deck Machinery, etc.

Class 4. Deck Equipment Operator, Machineryman/Fireman (4 Equipment Units or More); Off Road Trucks; Deck Hand, Tug Engineer, Crane Maintenance (50 Ton Capacity and Under) or Backhoe Weighing (115,000 pounds or less); Assistant Tug Operator.

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

SURVEY WORKER

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking.

SURVEY FOREMAN

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking; oversees survey crew operations; and/or coordinates work of survey crews.

TRAFFIC SAFETY Worker I

Traffic Safety Worker I - work associated with the delivery, installation, pick-up and servicing of safety devices during periods of roadway construction, including such work as set-up and maintenance of barricades, barrier wall reflectors, drums, cones, delineators, signs, crash attenuators, glare screen and other such items, and the layout and application or removal of conflicting and/or temporary roadway markings utilized to control traffic in construction zones, as well as flagging for these operations.

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TRAFFIC SAFETY WORKER II

Work associated with the installation and removal of permanent pavement markings and/or pavement markers including both installations performed by hand and installations performed by truck.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

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Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".

PART 2

CONTRACT SPECIAL PROVISIONS

CITY OF LOCKPORT
11TH STREET PARKING LOT
26-109

SPECIAL PROVISIONS

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SPECIAL PROVISIONS

The following Special Provisions supplement the “Standard Specifications for Road and Bridge Construction”, adopted January 1, 2022 (hereinafter referred to as the "Standard Specifications"); the “Supplemental Specifications and Recurring Special Provisions”, adopted January 1, 2026, indicated on the Check Sheet included herein; the latest edition of the “Manual on Uniform Traffic Control Devices for Streets and Highways”; the “Manual of Test Procedures for Materials” in effect on the date of invitation for bids; the “Standard Specifications for Water and Sewer Construction in Illinois” 2020 Eighth Edition; City of Lockport Land Development Code; and all of which apply to and govern the construction of the Local Improvement, and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

GENERAL CONTRACT SPECIAL PROVISIONS

DESCRIPTION OF PROJECT

The work consists of Pavement removal, Concrete Curb and/or Gutter removal and installation, brick pavement installation, HMA Paving, PCC Sidewalk installation, Signage and Pavement Marking, retaining wall installation, underground storm, sanitary, and electric utility installation, lighting improvements, and all incidental and collateral work necessary to complete the project.

LOCATION OF PROJECT

This project is located along the north side of 11th Street, between Commerce Street and State Street in the City of Lockport, Will County, Illinois.

The Alternate Police Station work is located along Weis Lane, just east of Farrell Road in the City of Lockport, Will County, Illinois.

DCEO REQUIREMENTS AND BEP UTILIZATION PLAN

The Contractor shall follow the following DCEO and BEP Utilization Requirements for this project.

The contract contains a goal that at least **10%** of the value of the contract will be performed by Business Enterprise Program (BEP) certified vendors as defined by the Commission on Equity and Inclusion (CEI). The goal reflects the estimated availability of BEP certified vendors to perform the scope of work of this contract, including as a prime Contractor. Consequently, in addition to the other award criteria established for this contract, the City of Lockport will award this contract to a Bidder who either meets this goal or who demonstrates its good faith efforts to do so. **The 10% participation of BEP certified vendors shall be calculated on the amount of the following general work items in this contract affiliated with the DCEO Grant. These work items shall consist of Earth Excavation, Aggregate Base, HMA Pavement, Stormwater System, Retaining Wall Installation, Railing or Fence Installation, and Concrete Curb and/or Gutter work.**

In addition to meeting the BEP goal stated above, a Utilization Plan form will need to be completed. The Utilization Plan demonstrates how the vendor will satisfy the **10%** BEP goal, whether self-performed, through subcontracted services, and/or sourcing of materials. Circumstances preventing vendors from



satisfying the goal must be documented within the Utilization Plan. The Utilization Plan form can be found at <https://cpo-general.illinois.gov/content/dam/soi/en/web/cpo-general/general/documents/bep-utilization-plan-v21.1.1.pdf> and is also attached herein for reference.

HOW TO LOCATE CERTIFIED BEP VENDORS

1. Visit <https://supplierdiversitymanagementportal.illinois.gov/VendorDirectory.aspx>
2. Click in the “NIGP Codes” box and type in a keyword description of the kind of work you are looking to hire. One or more codes with short descriptions of work will appear. “Add” the codes that match the work you are looking for.

For instance, if your grant project requires excavation, you can type “excavation” in the search box, and Code 91244 “Excavation Services” will appear. Click Add, and your search will be narrowed to BEP certified businesses who perform excavation.

3. Click in the fourth box “Certification Type” and select Minority Business Enterprise (MBE), Persons with Disability Business Enterprise (PBE), Women Business Enterprise (WBE), and Women/Minority Business Enterprise (WMBE). These are the business enterprise categories that qualify for BEP.
4. Scroll down to the “Location” section. Here you will use the “Distance Search” of Zip Code. Input the zip code in which the project is taking place, and then from the drop-down menu select a distance to search. We recommend within 50 miles.
5. If you are doing a distance search, it is very important that you not fill out any other part of the location information. If you input a city, the search will default to only business enterprises located within the city. This will greatly restrict your vendor search.
6. Scroll down to the “I’m not a robot” box and click it. You may have to do a picture test. Once that is complete, click the green “Search” button.

A list of BEP vendors, certified as Minority Business Enterprise (MBE), Persons with Disabilities Business Enterprise (PBE), Women Business Enterprise (WBE), and/or Women/Minority Business Enterprise (WMBE) matched to the Commodity Codes you added, and within the distance parameter, will appear.

You can then click on the business’ name and get details on the business including contact information for soliciting bids.

7. If you want to do a general search of all BEP certified vendors in your area, regardless of work performed, just skip adding NIGP Codes and search only by location: city or distance from zip code.

A list of businesses will appear, and you can click on the business’ name for details on that business including contact information and the work it performs (classified by the NIGP code).

8. You can also use the “Business Name/DBA” box to search specific businesses in your area to determine if they are state certified BEP.



MATERIAL TESTING AND INSPECTION

Lockport: November 2023

All materials incorporated into this project must be inspected and tested for compliance with the requirements of the IDOT Standard Specifications, Supplemental Specifications, Recurring Special Provisions, contract special provisions, and the IDOT Project Procedures Guide. The City will retain a consultant to manage the Quality Assurance (QA) requirements for hot-mix asphalt (HMA) and portland cement concrete (PCC) items; QA plant, field, and lab tests; and reporting the results.

The Contractor will be required to notify in writing to the City a minimum of 48 hours prior to any delivery of HMA or PCC materials to the project site. Failure to comply with this requirement shall be cause for immediate rejection of the HMA or PCC material and loss of working days, which shall be at no cost to the contract. No extension to completion dates shall be granted as a result of non-compliance. Quality Control (QC) aspects of the work shall remain the responsibility of the Contractor.

CONTRACTOR AND SUB-CONTRACTOR REGISTRATION

Lockport: November 2023

The Contractor and all Sub-contractors prior to the start of construction shall register with the City of Lockport. The cost to register with the City shall be included in the cost of the bid items in the contract. For more information, please contact the City of Lockport Building Department at (815) 838-0549 or visit the City's website at www.cityoflockport.net/305/Contractor-Registration.

PERMIT AND BONDS

Lockport: May 2025

The Contractor prior to the start of construction will obtain necessary State, County permits, or other public agencies as required to perform the work outlined under this contract. It shall be the Contractor's responsibility to conduct his/her operations in such a manner so as to comply with all provisions and conditions of the permits. The Contractor shall also provide all necessary bonds and certificates of insurance for work on or adjacent to any State or County highway or for work within their respective right-of-way. The cost of providing bonds and insurance, and complying with the provisions and conditions of the permits shall be considered as included in the cost of the contract.

No permits are required for this project.

MAINTENANCE OF ACCESS TO RESIDENCES, BUSINESSES, AND SCHOOLS

Lockport: November 2023

Revised: November 2024

This work shall be in accordance with Article 107.09 of the Standard Specifications, insofar as applicable, and the following provisions.



No work shall take place on both sides of the street at the same time without prior approval of the City. Failure to follow this requirement will result in a “Traffic Control Deficiency” with penalties assessed in accordance with section 105.03 (b) of the Standard Specifications.

The Contractor shall notify the City a minimum of 48 hours so that the City can notify the residents a minimum of 24 hours prior to disruption of access. Every effort shall be made by the Contractor to affirmatively notify these properties (i.e., knock on doors) again when access is about to be closed. The Contractor shall be responsible for maintaining barricades to restrict access during thier operation.

The Contractor may close one access point to a property for a period not exceeding six (6) hours without prior approval by the City only if another existing drive serves the loading and parking areas of the business. Half-width pours for concrete curb, driveway apron, and sidewalk may be necessary to meet this requirement.

The City will notify schools of work on adjacent streets. The Contractor shall schedule work to avoid activity during peak drop-off and pick-up times or as directed by the City. No compensation will be paid for any inconvenience, delay, or loss experienced by the Contractor because of adjustments to their normal schedule.

Temporary stone, or another method approved by the City, shall be used to maintain access between removal and formwork, if the Contractor exceeds the calendar day limitation for any reason.

The Contractor will be assessed a Traffic Control Deficiency in accordance with section 105.03 (b) of the Standard Specifications for exceeding the maximum calendar days of disruption and/or closures stipulated herein.

MAINTENANCE OF THE CONSTRUCTION SITE

Lockport: November 2023

Revised: November 2024

The Contractor shall be responsible for sweeping/cleaning streets of any debris and material that has accumulated as a result of daily construction activities in accordance with Article 107.15 of the Standard Specifications with emphasis on Contractor shall clean the pavement of all dirt and debris at the end of each day’s operations. The cleaning of the pavement shall be completed by means of truck mounted vacuum sweeper when requested by the City. This work shall also include cleaning the surrounding streets of any discharges from vehicles entering/exiting the work area. If street cleaning is not completed as requested by the City, the Contractor will be assessed a Traffic Control Deficiency in accordance with section 105.03 (b) of the Standard Specifications.

When dust blowing from construction sites may become a traffic hazard or a danger to the health or comfort to persons downwind, it shall be controlled either permanently or temporarily depending upon the state of development of the site. Dust control measures shall be taken when required by the City. Dust problems from active construction areas shall be kept under control by means of watering dry surfaces. Application and repetition rates shall be as necessary for effective control. The cost of this work shall not be paid for separately, but shall be considered as included in the unit bid prices of the contract and no additional compensation will be allowed. In the event the dust problem is not resolved, the Contractor will be assessed a Traffic Control Deficiency in accordance with section 105.03 (b) of the Standard Specifications.



All areas that are temporarily seeded, blanked or prepared of sod shall be maintained by the Contractor for the duration of the project. This work shall include mowing so that no grass or weeds exceed 6" in height. The cost of this work shall not be paid for separately, but shall be considered as included in the unit bid prices of the contract and no additional compensation will be allowed.

USE OF FIRE HYDRANTS

Lockport: November 2023

This work shall be in accordance with Article 107.18 of the Standard Specifications, expect NO fire hydrants shall be used within the City limits. Water can be obtained at the Public Works and Engineering Facility, 17112 Prime Boulevard, Lockport, IL 60441. This water will be at no cost to the contractor and their Sub-Contractors working for the City.

VANDALISM

Lockport: November 2023

Special attention is called to Article 107.30 of the Standard Specifications. Any defaced work shall be corrected or replaced by the Contractor at their sole expense prior to final payment. The City shall cooperate with the Contractor to minimize vandalism, but the Contractor shall be ultimately responsible to correct any damage.

PRESERVATION OF TREES, LANDSCAPING AND HARDSCAPE

Lockport: November 2023

The Contractor will make every effort when working near trees and landscape beds to preserve them from harm. All trees will be preserved unless specifically designated for removal. Tree branches will not be cut, pruned, or trimmed by the Contractor unless approved by the City. All equipment, supplies, and excavated material will be kept out of the drip line of existing trees. When tree limbs, trunks or roots of trees not approved for removal are damaged, the City will determine whether the tree can be repaired or must be removed. Repairs may include, but are not limited to pruning of broken limbs, removal of loose bark, and proper shaping of wounds, thinning of crown to compensate for root loss, fertilization, straightening, and staking. The City reserves the right to perform the repairs with municipal forces or hired contractor and will back charge the Contractor for such repairs. If the City determines the tree needs to be replaced, the Contractor at his/her expense shall remove the tree along with the stump to a depth of 12" below the ground surface. The Contractor will reimburse the City for replacement of the tree at \$500.00 per inch as measured six (6) inches above the ground at the tree's diameter. Landscape beds damaged by the Contractor shall be restored in kind as directed by the City.

The Contractor shall remove, stockpile, and replace all hardscaped and decorative landscaped materials within the project limits, as directed by the City. Hardscape and decorative landscape materials that conflict with proposed improvements shall be replaced to the extent possible. All pavers and landscape edging shall be neatly reset. All boulder, timbers, block, stone, pavers, and decorative items shall be either replaced or delivered back to the homeowner at the conclusion of the project. In the event the homeowner does not desire to keep this material, the materials shall be disposed of by the Contractor.



The cost of all materials required and all labor necessary to comply with the above Provisions will not be paid for separately, but shall be considered as included in the unit bid prices of the contract, and no additional compensation will be allowed.

PROTECTION OF EXISTING INFRASTRUCTURE

Lockport: November 2023

This work shall consist of the protection of the existing concrete sidewalks, driveway aprons, curb and other City infrastructure during the construction from damage by the Contractor's negligence by use of trucks, excavating equipment, placement of bituminous materials and any other equipment used by the Contractor. Any cleaning required or directed by the City shall be completed per manufacturer's specification and approved by the City.

When removing curb and gutter, pavement or any other structure, the Contractor shall take every precaution necessary to ensure that there will be no damage to underground public or private utilities.

The Contractor shall use plywood sheets, wood planks or other approved material to protect the existing sidewalks, aprons, curbs and other City infrastructure from damage by the Contractor's equipment and trucks.

The cost to furnish, place, move and dispose of materials as needed to continually protect and clean the existing roadways, concrete, and crosswalks will not be paid for separately, but shall be considered as included in the unit bid prices of the contract, and no additional compensation will be allowed.

PROTECTION OF EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION

Lockport: November 2023

Unless otherwise noted on the plans, the existing drainage facilities shall remain in use during the period of construction. Locations of existing drainage structures and sewers as shown on the plans are approximate. Prior to commencing work, the Contractor, at his/her own expense, shall determine the exact locations of existing structures which are within the proposed construction limit.

All existing drainage structures are to be kept free of any debris resulting from the Contractor's construction operations. Any debris in the drainage structures resulting from construction operations shall be removed at the Contractor's own expense, and no extra compensation will be allowed. Should reconstruction or adjustment of a drainage structure be required by the City in the field, the necessary work and payment shall be in accordance with the pay items and special provisions included in this contract.

The Contractor shall take the necessary precautions when working near or above existing sewers in order to protect these pipes during construction from any damage resulting from his/her operations. All work and material necessary to replace existing sewers damaged because of noncompliance with this provision shall be as directed by the City in accordance with Section 550 of the Standard Specifications and at the Contractor's own expense, and no additional compensation will be allowed.

During construction, if the Contractor encounters or otherwise becomes aware of any sewers, underdrains or field drains within the right-of-way other than those shown on the plans, he/she shall so inform the City, who shall direct the work necessary to maintain or replace the facilities in service and to protect them from



damage during construction if maintained. Existing facilities to be maintained that are damaged because of the non-compliance with this provision shall be replaced at the Contractor's own expense.

WORKING HOURS

Lockport: November 2023

This shall be in accordance to Article 107.35 of the Standard Specifications except replace and add the following to the second paragraph:

“The Contractor shall be confined to the period beginning at 7 a.m. to 6 p.m., Monday through Saturday. The Contractor may work outside the confined hours with written permission of the City. This time regulation shall not apply to maintenance or operation of safety and traffic control devices such as barricades, signs, and lighting, or to construction of an emergency nature.

Water main and water service shut-offs and driveway closures may be required on weekends and/or off hours, as directed by the City. No additional compensation shall be due to the contractor for performing this work.”

STATUS OF UTILITIES

Lockport: May 2025

The Contractor shall be responsible for notifying all utilities prior to any excavation. Locations of utilities shown on these plans are approximate and shall be verified by the Contractor prior to any excavation. The location of the existing underground utilities as shown on the plans are based on the available evidence provided to the City. There may be other existing underground utilities that are not shown on the plans. The City does not guarantee that the locations as shown on the plans are accurate or that all the utilities are shown.

Protect from damage all existing sewer, water, gas, electric, or other services that are to remain. Any damage to utilities shall be repaired by this Contractor at no additional expenses to the Owner. Marking the locations of existing water main will be performed, to the best of their ability, by the City. Prior notification and coordination with the City is the responsibility of the Contractor. Locations provided by the City will be approximate, and the Contractor will be required to verify locations provided. Any locations provided by the City, or if any lines are not located by the City, will not relieve the Contractor of their responsibilities to protect these lines. No additional payment will be made for repairs to the lines, or for down time waiting for locations or excavation to find the lines or mains. The ultimate responsibility for location of water mains will rest with the Contractor. Prospective bidders are urged to determine in advance what steps will be necessary in order to make arrangements for temporary or permanent relocation of existing underground utilities. The City will not be responsible for moving or causing to be moved any such utilities but rather provisions must be made for this work to be performed either by the Contractor or by the utility company involved. The City will attempt to locate proposed water mains to avoid existing utility conflicts.

The Contractor shall familiarize himself with the locations of all utilities and structures that may be found in the vicinity of the construction. The Contractor shall conduct his/her operations to avoid damage to all public or private utilities and structures. Should any damage occur due to the Contractor's negligence, repairs shall be made by the Contractor at his/her expense in a manner acceptable to the City. The Contractor shall notify all utility owners of his construction schedule and shall coordinate construction



operations with the utility owners so that relocation of utility lines and structures may proceed in an orderly manner. Notification shall be in writing, with copies transmitted to the City.

Utility companies involved in this project have provided the following information:

Name of Utility and Contact Information	Facility Type	Location	Estimated Dates
NICOR (X2CMILLI@SOUTHERNCO.COM)	Underground 2” main & 0.5” Service	Along existing curb line on 11 th Street & on Commerce Street	½” Gas Service to be relocated prior to or during construction
Verizon/MCI (joe.chaney@verizon.com)	8-1.25 HDPE with Fiber Optic Cable	Along Commerce Street	No conflict anticipated
ComEd (Kurt.Armstrong@ComEd.com)	Overhead 12 KV	Along Commerce Street	No conflict anticipated
AT&T (g05256@att.com)	Aerial Cable on Joint Poles	Along Commerce Street	No conflict anticipated
City of Lockport (dpowers@lockport.org)	Watermain, Sanitary Sewer, and Storm Sewer	Throughout project limits	Sanitary Service to be relocated as part of this contract. Storm and Water to be protected during construction.

MAINTENANCE OF EXISTING UTILITIES

Lockport: November 2023

The Contractor shall be responsible for interference with or damage to any existing utilities, such as water mains, sewers, gas mains, cable, conduit, etc., and shall repair or replace same at the Contractor’s own expense and with the least possible delay. The Contractor shall give prior notification to the utility companies of their intention to begin work. They shall also call J.U.L.I.E. at 1-800-892-0123 and the City to mark the location of underground utilities.

The Contractor shall note that all representation of existing utilities within the Contract Documents is for informational purposes only and shall not be construed as being the exact location of the existing utilities or a complete accounting of all possible existing utilities. The Contractor shall be responsible to avoid to the satisfaction of the City, or repair and/or replace to the satisfaction of the utility owner and at the Contractor’s own expense all utilities that have been interfered with or damaged, regardless of the represented location or lack of representation within the Contract Documents.

PRE-CONSTRUCTION REQUIREMENTS

Lockport: November 2023

Revised: October 2024

Pre-Construction Meeting

A pre-construction meeting will be scheduled by the City following the execution of the Contract and prior to the start of construction. At the preconstruction meeting the Contractor will be requested to furnish the



City fluorescent pink and/or white water-based marking spray paint, the cost shall be included in the cost of the contract.

Construction Schedule and Progress Meetings

A construction schedule outlining all construction activities for the duration of the project shall be submitted prior to the pre-construction meeting in accordance with Article 108.02 of the Standard Specifications. No contract work can begin until the construction schedule has been approved by the City and a Notice to Proceed letter is sent to the contractor with the executed contract and bond.

Weekly progress meetings will be required during the duration of the contract. The contractor will be required to submit a one week look ahead for any scheduled activities and must be approved by the City.

Sub-Contracting

In addition to the requirements of Article 108.01 of the Standard Specifications and prior to the pre-construction meeting, the Contractor shall submit to the City a list of all the sub-contractors that are to be performing or constructing any type of work in this Contract.

The list shall include the sub-contractor's name and address, and the type and amount of work to be performed by the sub-contractor.

Prosecution of the Work

This shall be in accordance to Article 108.03 of the Standard Specifications except replace the second paragraph with the following:

“The Contractor shall notify the City at least 72 hours prior to initial start of operations, and 24 hours prior to each inspection and prior to discontinuing or resuming operations.”

Notice to Proceed is anticipated to be given by August 21, 2026 with work beginning no earlier than August 31, 2026 or ten (10) days after issuance of the Notice of Proceed.

SALVAGEABLE MATERIALS

Lockport: August 2024

All materials deemed salvageable by the City shall remain the property of the City and shall be stored on the job site as directed by the Engineer. When requested, the Contractor shall deliver the materials to the City's Public Works Facility. The Contractor shall dispose of any materials off site that the City determines should not be salvaged. This work will not be paid for separately and is considered to be included in the cost of the various removal items.

CONTRACT COMPLETION DATE

Lockport: November 2023

Interim Completion Date – Police Station Area

The Contractor shall be required to complete all work shown on the “Police Station” plan sheets **within fourteen (14) calendar days** of starting this location. Day one (1) is the first day PCC sidewalk or HMA Pavement removal begins.

Interim Completion Date – Corner of 11th Street and State Street Area

The Contractor shall be required to complete all work shown on the plans located at the corner of 11th Street and State Street within **thirty-five (35) calendar days** of starting this location. Day one (1) is the first day



Brick sidewalk or HMA Pavement removal begins. This work includes but is not limited to pavement removal, brick pavement installation, curb planter with coping installation, PCC sidewalk installation, pavement marking, and lighting and signage improvements.

Final Completion Date plus Working Days

The Contractor shall be required to complete all contract work by **3:00 p.m., Friday, November 20, 2026**. The Contractor shall complete all punch list items within 14 calendar days after the Completion Date and upon receiving a punch list from the City.

The City will prepare punch-list of items that require correction prior to acceptance. Under extenuating circumstances, the City may direct that certain items of work not affecting the safe opening of the roadways and sidewalks may be completed within 14 calendar days allowed for clean-up and punch-list items. If all work is not accepted within that time, the Contractor will be subject to liquidated damages.

LIQUIDATED DAMAGES

Lockport: November 2023

In accordance with the provisions of Article 108.09 of the Standard Specifications, except the Contractor shall pay to the City the sum of **\$1,425 per calendar day**, as liquidated damages for each and every calendar day beyond the **Interim or Final Contract Completion Date** that the work or any part thereof, remains incomplete.

MEASUREMENT AND PAYMENT

Lockport: November 2023

Revised: October 2024

Payment

Once a month, the City will make a written estimate of the amount of work performed in accordance with the contract, and the value thereof at the contract unit prices. The City will deduct from partial payments to the Contractor a sum of ten (10) percent which shall be retained until after the completion and final acceptance of all work. The Contractor then shall submit a matching invoice along with the following;

1. The Contractor shall procure and submit from each subcontractor and supplier of material or labor a waiver of any claim which they may have under the mechanics lien laws of the state in which the work is located, to insure the City immunity from mechanics liens on subcontractors in carrying out the contract and any work orders for additions thereto, all as a condition of any payment by the City. Any payments made by the City without requiring compliance with this paragraph shall not be construed as a waiver by the City to require compliance with this paragraph as a condition to later payments. The Contractor shall furnish with his/her final invoice a complete release of all liens arising out of this contract, or receipts in full in lieu thereof and an affidavit that the releases and receipts include all labor and material for which a lien could be filed.
2. Pursuant to PA 100-1177 and 820 ILCS 130/5.1, the Illinois Department of Labor is charged with developing and maintaining an online portal for prevailing wage construction contractors to file their certified payrolls with the department. Proof that Certified Payroll are being filed from the Contractor and all Sub-Contractors shall be submitted to the City prior to any payments are released by the City.



CITY SPECIAL PROVISIONS

TRENCH BACKFILL (SPECIAL)

Lockport: November 2023

Revised: October 2024

This work shall be in accordance with Section 208 of the Standard Specifications and City of Lockport Standard Details GEN-01 and GEN-02 and with the following additions and modifications.

This work shall be in accordance to Section 208 of the Standard Specifications except for the following;

Add the following sentences to Article 208.01:

“The maximum trench width shall be as stated in Section 20-4.05 of the Standard Specifications for Water and Sewer Main Construction in Illinois, current edition.”

“Backfilling shall be performed in accordance with Section 20 of the Standard Specifications for Water and Sewer Main Construction in Illinois, current edition. After the installation of the granular bedding, hunching, and initial backfill from 12-inches above the pipe to 6-inches below the pipe, the final backfill shall be performed in accordance to Section 20-4.06B Method 1.”

Revise Article 208.02 to read:

“Trench Backfill shall be gradation CA-7 coarse aggregate meeting the requirements of Section 1004.05. The coarse aggregate shall be wet.”

EXPLORATION TRENCH (SPECIAL)

Lockport: November 2023

Revised: August 2024

Description

This item shall consist of locating underground utilities that potentially conflict with proposed improvements.

Requirements

It shall be the Contractor’s responsibility to locate underground utilities that are marked on the plans. This work will not be paid for separately but shall be included in the cost of the item being constructed. Exceptions are as follows:

- Utilities Marked on the Plans: If the item to be constructed is grade critical, and cannot be adjusted either vertically or horizontally (i.e. storm sewer, sanitary sewer), and there is a potential for conflict with the utility. Locating potentially conflicting utilities will be paid under this item.
- Utilities Not Marked on Plans: If a utility is not shown on the plans (or not shown in accordance with Article 104.03 of the Standard Specifications). Locating potentially conflicting utilities will be paid under this item. As per Article 107.40(a)(2) of the Standard Specifications, “Service connections shall not be considered to be utilities in unanticipated locations”.



Construction Requirements

The method of excavation to locate utilities will be at the contractor's discretion, as approved by the City. If the contractor elects to use hydro excavation for the removal of excavated material, they shall be responsible for all water usage and disposing of the excavated material in accordance with Article 202.03 of the Standard Specifications.

After the exposed line/utility has been inspected by the City, the trench shall be backfilled with gradation CA-7 coarse aggregate when the utility is under or within 2-feet of pavement, the cost of which shall be included in the pay item. All other excavations shall be backfilled with approved on-site materials and compacted to the satisfaction of the Engineer. Any excess material shall be disposed of according to Article 202.03 and the areas shall be shaped and trimmed according to Section 212."

Any utilities damaged during excavation operations shall be repaired or replaced at the contractor's expense; no additional compensation shall be allowed.

Removal and replacement/restoration of any pavement, sidewalk, parkway, driveway, etc. necessary to complete the exploration excavation shall be paid for separately under pay items that are in the contract. Sidewalk removal and replacement shall include the complete sidewalk panel.

Method of Measurement

This work will be measured per each excavation, regardless of the soil composition, to locate existing utilities. For this pay item, excavation depth and width will be limited to 72 inches and 5 feet, respectively. The Contractor will not receive compensation if more than one utility is located within the excavation (as defined above). If the utility is deeper than 72 inches, the initial locate shall be measured in accordance with this special provision. Additional excavation (beyond 72 inches in depth) shall be measured and paid for in accordance with Article 109.04 of the Standard Specifications.

Basis of Payment

This work shall be paid for at the contract unit price per each for EXPLORATION TRENCH (SPECIAL)

INLET FILTERS

Lockport: November 2023

Revised: August 2024

Description

All work, materials and equipment will conform to Sections 280 and 1081.15 of the Standard Specifications except as noted herein.

Inlet filters shall be the drop-in kind only and shall meet the criteria in Standard Dwg. IUM-561D of the Illinois Urban Manual. Inlet filters will be installed and maintained at all inlet locations as shown on the plans or as directed by the City.

Removal and disposal of debris, accumulated silt and trapped sediment will be considered included in the cost of the pay item.

Filter fabric by itself is not allowed.

Method of Measurement



INLET FILTERS will be measured for payment as individual items and the unit of measurement will be each.

Basis of Payment

This work will be paid for at the contract unit price per each for INLET FILTERS.

AGGREGATE BASE COURSE, TYPE B

Lockport: August 2024

Description

The aggregate base course placement shall be in accordance with the applicable portions of Section 351 of the Standard Specifications.

Materials

Refer to Article 1004.04 except revise 1004.04(c) to read: The course aggregate gradation shall be CA-6 only.

Method of Measurement & Basis of Payment

This work shall be paid for at the contract unit price per square yard for AGGREGATE BASE COURSE, TYPE B, of the thickness specified. The price shall include materials, labor, tools, equipment and incidentals necessary to complete this item of work.

BITUMINOUS MATERIALS – TRACKLESS TACK COAT

Lockport: November 2023

Revised: August 2024

Description

This work shall be in accordance with Section 406 of the Standard Specification with the following additions and modifications.

Replace the table in 406.02 with:

Type of Construction	Bituminous Materials
Tack Coat on Brick, Concrete, or HMA Bases	Non-Tracking Emulsified Asphalt (NTEA) or City Approved Alternative

Shields, covers, or other suitable equipment shall be provided by the Contractor to protect the motoring public, adjoining pavement, curbs, or structures during the application of tack coat. Additionally, the contractor will be required to place barricades at every driveway to ensure that the tracking of the tack coat material does not occur upon the concrete driveway aprons adjacent to roadway surface. Additionally, the placement of the Tack Coat can only be applied to the roadway on one side at a time and shall not be allowed to track. At the discretion of the City, if the Tack Coat application requires the closure of the road, any costs associated with the closure of the roadway will be incidental to this item. The use of successive applications is acceptable to meet the required application rate. Subsequent coats can only be applied once the City or representative of the City has been satisfied that the previous coat has properly cured.



The placement of the Tack Coat shall be placed upon the roadways only after the roadway has been properly cleaned and approved by the City.

“FRESH OIL” signs shall be installed as described in the special provision SCHEDULING RESTRICTIONS.

This work shall include all labor, materials, and equipment necessary to place a bituminous tack coat as shown in the plans, or directed by the City, in accordance with the requirements of Sections 406 and 1032 of the Standard Specifications.

Method of Measurement and Basis of Payment

This work will be paid for at the contract unit price per pound of NTEA for BITUMINOUS MATERIALS (TACK COAT) which price shall be payment in full for all labor, materials, and equipment necessary to complete this item.

CONCRETE WASHOUT FACILITY

Lockport: November 2023

The Contractor shall take sufficient precautions to prevent pollution of streams, lakes, reservoirs, and wetlands with fuels, oils, bitumen, calcium chloride, or other harmful materials according to Article 107.23 of the Standard Specifications.

To prevent pollution by residual concrete and/or the by-product of washing out the concrete trucks, concrete washout facilities shall be constructed and maintained on any project which includes cast-in-place concrete items. The concrete washout shall be constructed, maintained, and removed according to this special provision.

The concrete washout facility shall be constructed on the job site in accordance with Illinois Urban Manual practice standard for Temporary Concrete Washout Facility. The Contractor may elect to use a pre-fabricated portable concrete washout structure. The Contractor shall submit a plan for the concrete washout facility, to the City for approval, a minimum of 10 calendar days before the first concrete pour. The working concrete washout facility shall be in place before any delivery of concrete to the site. The Contractor shall ensure that all concrete washout activities are limited to the designated area.

The concrete washout facility shall be located no closer than 50 feet from any environmentally sensitive areas, such as water bodies, wetlands, and/or other areas indicated on the plans. Adequate signage shall be placed at the washout facility and elsewhere as necessary to clearly indicate the location of the concrete washout facility to the operators of concrete trucks.

The concrete washout facility shall be adequately sized to fully contain the concrete washout needs of the project. The contents of the concrete washout facility shall not exceed 75% of the facility capacity. Once the 75% capacity is reached, concrete placement shall be discontinued until the facility is cleaned out. Hardened concrete shall be removed and properly disposed of outside the right-of-way. Slurry shall be allowed to evaporate, or shall be removed and properly disposed of outside the right-of-way. The Contractor shall immediately replace damaged basin liners or other washout facility components to prevent leakage of concrete waste from the washout facility. Concrete washout facilities shall be inspected by the Contractor after each use. Any and all spills shall be reported to the City and cleaned up immediately. The Contractor shall remove the concrete washout facility when it is no longer needed.



This work will not be paid for separately, but shall be included in the cost of the concrete work items included in the contract.

CONCRETE CURING

Concrete curing shall be limited to the methods in Article 1020.13(a)[4] – membrane curing method. When protective coat is required by the City, concrete curing shall be limited to the methods in Article 1020.13(a) [1], [2], or [3], unless otherwise approved by the City.

Concrete temperature control shall be in accordance with Article 1020.14 of the Standard Specification with the following modifications:

Delete the second and third sentences of the second paragraphs of Article 1020.14(a) of the Standard Specifications.

Basis of Payment

This work will not be paid for separately but shall be included in the cost of the concrete work items in the contract, regardless of the type of curing required. No additional compensation will be due the Contractor for the method selected for curing of portland cement concrete.

SAW CUTTING

Lockport: November 2023

Revised: November 2025

This work shall consist of sawing full depth joints in the existing roadway, bituminous surface, curb and gutter, driveway, and sidewalk in order to separate those portions to be removed from those which will remain in place. This work shall be performed at the locations specified on the plans and/or as otherwise designated by the City.

The Contractor will be required to saw vertical cuts so as to form clean vertical joints. Should the Contractor deface any edge, a new sawed joint shall be provided and any additional work, including removal and replacement, will be done at the Contractor's expense.

It is the Contractor's responsibility to determine the thickness of the existing pavement and whether or not it contains reinforcement.

All slurry material created from saw cutting activities shall be removed from site by use of vacuum or other approved method. Any residual that cannot be vacuumed shall be rinsed off and all rinse water shall be collected and disposed of off-site.

This work shall not be measured for payment but shall be considered included in the price for the items being removed.



PORTLAND CEMENT CONCRETE SIDEWALK (SPECIAL)

Lockport: November 2023

Revised: October 2024

This work shall be in accordance with Section 424 of the Standard Specification and City of Lockport Standard Details PAV-06 and PAV-07 with the following additions and modifications.

Revise accordingly Article 424.02: “Materials shall comply with the requirements of Sections 1020 and 1051 of the Standard Specifications. Class PV concrete with a compressive strength of 3500 psi after 3 days shall be used at locations where sidewalk is constructed at entrances.”

Replace Article 424.04 with the following: “Any tree roots encountered during sidewalk installation or requested by the City shall be removed by the Contractor. This work will be paid for separately as described in Article 201.

The existing stone subbase may be reused if approved by the City. This subbase shall be tamped or rolled until thoroughly compacted and at the proper line and grade as shown on the plans. The City determines that the existing subbase is not sufficient, then CA-6 shall be placed at a depth not less than 4”. This stone subbase shall be included in the cost of the sidewalk and will not be paid for separately. All required excavation to achieve the proposed elevation of the bottom of the proposed subgrade will not be paid for separately but shall be included in this pay item.

At locations where sidewalk is constructed at entrances or where shown on the plans, the sidewalk shall be thickened to match the thickness of the adjacent entrance or driveway pavement (6-inch minimum for residential and 8-inch for non-residential). All other sidewalk shall be 5-inches thick. The City must approve the base before concrete is placed.

Install two (2) #4 epoxy coated reinforcing bars, embedded 6” into the existing PCC sidewalk, across all utility trenches. The reinforcing bars shall extend 5-feet past each end of the trench.

Add the following to Article 424.05: “All forming shall be with 2”x 6” lumber for 5 inch sidewalk or 2”x 10” lumber for 8 inch sidewalk or City approved metal forms. The City must approve the formwork before concrete is placed.”

Delete Article 424.09: Refer to Special Provision DETECTABLE WARNINGS (CAST IRON)

Replace Article 424.10 with the following: “After the concrete has been cured, the space along the edges of the sidewalk and ramps shall be backfilled with approved topsoil which is incidental to this pay item. The material shall be compacted until firm and the surface neatly graded.”

Delete the second paragraph in Article 424.13: Refer to Special Provision DETECTABLE WARNINGS (CAST IRON)



DETECTABLE WARNINGS (CAST IRON)

Lockport: November 2023

Revised: October 2024

Description

This work shall consist of furnishing and installing pre-fabricated panels of truncated domes in accordance with Section 424 of the Standard Specifications and City of Lockport Standard Details PAV-06 and PAV-07, except as herein modified.

Detectable warnings shall be installed at curb ramps, medians and pedestrian refuge islands, at-grade railroads crossings, and other locations where pedestrians are required to cross a hazardous vehicular way. Detectable warnings shall also be installed at alleys and commercial entrances when permanent traffic control devices are present. The installation shall be an integral part of the walking surface and only the actual domes shall project above the walking surface.

The detectable warning panel shall be cast-in-place Cast Iron meeting requirements of ASTM A-48 Class 30 or better. The finish of the detectable warning panel shall be Natural Finish (Uncoated). The Contractor shall submit catalog cuts for the City to approve. Replaceable detectable warnings are prohibited.

The contractor shall verify all dimensions with the product manufacturer. When radial panels are required the contractor shall verify that the radius of the detectable warnings supplied by the manufacturer matches that of the curb radius.

The contractor shall ensure that the supplied detectable warnings allow placement of the rows of domes that are aligned parallel with the path of travel. Where detectable warnings are radial, dome orientation is not significant.

The contractor shall ensure a maximum vertical transition of 1/4" between the edge of the detectable warnings and adjacent concrete.

Method of Measurement and Basis of Payment

Detectable warnings will be paid for at the contract unit price per square foot placed for DETECTABLE WARNINGS (CAST IRON).

PAVEMENT REMOVAL (FULL DEPTH)

Lockport: November 2023

Description

This work shall consist of the removal and disposal of existing pavement, including all necessary excavation, as shown on the plans or as directed by the Engineer. This work shall be completed in accordance with sections 202 and 440 of the Standard Specifications, except as modified herein.

Pavement removal shall include the removal and disposal of the entire pavement section and all excavation (including stone, earth, clay, etc.) to the depth required for proposed pavement section.

440.03 General. Add the following paragraph to the end of this Article:

“No additional compensation will be allowed due to the presence of paving/geotextile fabric in the existing asphalt layer(s).”



Method of Measurement and Basis of Payment

This work will be measured and paid for at the contract unit price per square yard for PAVEMENT REMOVAL (FULL DEPTH) which shall include all pavement removal, excavation, labor, equipment, and materials required to complete the work as specified herein.

STORM SEWERS

Lockport: October 2024

Revised: November 2025

Description

This work shall consist of the excavation, granular bedding, and installation of storm sewer in accordance with Section 550 of the Standard Specifications, Section 40 of the “Standard Specifications for Water and Sewer Main Construction in Illinois,” and City of Lockport Standard Detail GEN-01, GEN-02, AND STM-01.

Removal and replacement of unsuitable material with below the pipe with CA-7 shall be included in the cost.

All storm sewer shall be paid under this special provision, regardless of depth.

Connecting dissimilar pipe materials shall be done via a non-shear coupling. A concrete collar for RCP connections, when required, is included with this pay item.

Material

The pipe material shall match the existing or as directed by the City unless a specific material is called out in the Plans.

Method of Measurement and Basis of Payment

This work will be measured and paid for at the contract unit price per foot for STORM SEWER, of the size specified, which shall include all materials, labor, earth excavation, removal and disposal of unsuitable material, stone bedding, non-shear couplings, concrete collars and all equipment necessary to complete the work as specified herein.

SEWER REMOVAL

Lockport: November 2023

Revised: August 2024

Description

This work shall consist of the removal of existing storm or sanitary sewers as required by the proposed work shown in the plans or as directed by the engineer in the field. Work shall be performed in accordance with section 551 of the standard specifications with the following additions and modifications:

Replace the third paragraph Article 551.05 with:

Trench backfill for sewer removal outside of proposed utility trenches will not be measured for payment.

Add the following to Article 551.06:

Trench backfill for sewer removed outside of proposed utility trenches will not be paid for separately.



REPLACING SANITARY SERVICE (8" DIAMETER OR LESS)

Lockport: November 2023

Revised: October 2024

Description.

This work shall consist of replacing sanitary sewer services of 8-inch diameter or less where the proposed improvements with the existing sanitary service in accordance with Section 563 of the Standard Specification, the details in the plans, and as specified herein.

The exact locations of existing sewer and sewer connections are to be verified in the field by the Contractor. Trench backfill is included with this pay item and is required when under or within 2-feet of pavement.

Proposed sanitary service and cleanout shall be installed per City of Lockport Standard Detail SAN-05 included in the plans and as noted in the plans.

Materials.

Sanitary sewer relocations shall be ASTM D3034 PVC with ASTM D3212 joints (SDR-26 min.) Sanitary sewer relocations crossing water main shall consist of the following:

- ASTM D2241 PVC with ASTM D3139 joints (SDR 21 min.)
- AWWA C900 PVC with ASTM D3139 joints (DR 18 min.)
- Ductile Iron Pipe meeting ANSI A21.51 with ANSI A21.11 joints

Connections to existing sewer shall be made with stainless steel shielded couplings, gasket to meet ASTM C1173-91, 300 series stainless steel shear ring with a minimum thickness of 0.012", 316 grade stainless steel nut and bolt tightening clamps, shear ring and clamps to meet all requirements of ASTM A167-91, transitional sizes to utilize a one piece gasket.

Measurement and Payment.

This work will be measured for payment as the LINEAR FOOT of new sanitary service pipe installed. The existing service to be removed will not be measured for payment.

This work will be paid for at the contract unit price per foot for REPLACING SANITARY SERVICE, of the size specified, which price shall include all pipe removal and replacement, joint materials, connections to existing main, removal and installation of cleanouts, marking all connections, excavation, and backfilling with granular or approved on-site materials.

DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED

Lockport: November 2024

Revised: November 2025

This work shall be performed in accordance with Section 602 of the Standard Specifications and the City of Lockport Standard Details GEN-03 and PAV-01 with the following additions:

Structures shall be understood to include catch basins, manholes, inlets, and valve vaults which lie within the project limits that are either located in the curb line, turf, sidewalk or driveway pavement.



A maximum of two (2) adjusting rings is allowed, with a total combined height not exceeding 8 inches. Adjustments of 3 inches or less shall be made with HDPE plastic or rubber adjusting rings meeting or exceeding HS-25 wheel loading. Adjustments greater than 3 inches shall be made with reinforced concrete adjustment rings. HDPE or rubber rings shall be sealed to the structure, frame, and adjacent rings per the manufacturer's requirements. Concrete rings shall be sealed to the structure, frame, and adjacent rings using a preformed bitumen seal (E-Z Stick or approved equal). All air gaps between the frame and adjusting rings shall be filled with mortar. Where slope correction is required, tapered rings shall be used. The adjusting ring product shall be approved by the City prior to use.

As part of the unit price for this work, each structure that is to be adjusted shall be cleaned of debris and cracked/ broken mortar. The contractor shall repair and re-mortar around the pipes, joints between blocks, sections, rings and under the frame.

On Sanitary Manholes, a new external chimney seal shall be installed after the frame has been adjusted to the final elevation. This work shall be paid for separately as EXTERNAL CHIMNEY SEAL.

Adjustment will be made with existing frames and grates or lids unless otherwise specified. New frames and grates or lids will be paid for separately when shown on the plans or directed by the City.

When new frames are installed, the existing frames shall be removed by the Contractor and transported to Lockport's Public Works & Engineering Facility at 17112 Prime Boulevard, Lockport, IL 60441. This work shall be included in the cost of the unit prices for items being adjusted or reconstructed.

FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

Lockport: November 2023

Revised: November 2025

Description

This work shall be in accordance with Section 603 of the Standard Specification, Details for Frames and Lids Adjustment with Milling (BD-8), and City detail PAV-01 with the following additions and modifications. Structures shall include catch basins, manholes, inlets, and valve vaults which lie within the project area in bituminous pavement.

Construction Requirements

Stage I (Before Pavement Milling)

1. Removing a minimum of 12" of the pavement from around the structure.
2. Remove the existing frame and lid from the structure.
3. Cover the structure opening with a metal plate.
4. Backfill with crushed stone and a minimum 2" thick bituminous material approved by the Engineer.

Stage II (After Pavement Milling/Leveling Binder)

1. Sawcutting the pavement so that the pavement has a 90 degree vertical face around the entirety of the frame adjustment.
2. Remove the bituminous material and crushed stone.
3. Install the frame and lid; adjust the frame to its final surface elevation.
4. Fill the surrounding space with Class PP-3 concrete to the elevation of the surface of the binder course.
5. Install manhole safety ramp on all manholes exposed to traffic.



Structures shall be understood to include catch basins, manholes, inlets, and valve vaults which lie within the bituminous roadway.

A maximum of two (2) adjusting rings is allowed, with a total combined height not exceeding 8 inches. Adjustments of 3 inches or less shall be made with HDPE plastic or rubber adjusting rings meeting or exceeding HS-25 wheel loading. Adjustments greater than 3 inches shall be made with reinforced concrete adjustment rings. HDPE or rubber rings shall be sealed to the structure, frame, and adjacent rings per the manufacturer's requirements. Concrete rings shall be sealed to the structure, frame, and adjacent rings using a preformed bitumen seal (E-Z Stick or approved equal). All air gaps between the frame and adjusting rings shall be filled with mortar. Where slope correction is required, tapered rings shall be used. The adjusting ring product shall be approved by the City prior to use.

As part of the unit price for this work, each structure that is to be adjusted shall be cleaned of debris and cracked/broken mortar. The contractor shall repair and remortar around the pipes, joints between blocks, sections, rings and under the frame.

Hydraulic cement shall be used in the adjustment of said structure to seal the outside of the adjustment rings and under the frame.

On sanitary manholes, a new external chimney seal which fully encompasses the rings and castings and meets the requirements of the details included in the plans shall be installed after the frame has been adjusted to the final elevation. The Contractor shall obtain the City's approval of the chimney seal prior to its installation. This work shall be paid under EXTERNAL CHIMNEY SEAL.

The existing frame shall be used, unless otherwise directed by the City. If a new frame is required it shall be paid for separately. When new frames are installed, the existing frames shall be removed by the Contractor and transported to Lockport's Public Works & Engineering Facility at 17112 Prime Boulevard, Lockport, IL 60441. This work shall be included in the cost of the unit prices for items being adjusted.

Method of Measurement and Basis of Payment

This work shall be measured and paid for at the contract unit price per each for FRAMES AND LIDS TO BE ADJUSTED (SPECIAL), which price shall include all labor, material, and equipment required to complete the work as specified. External chimney seals for Sanitary Manholes shall be measured and paid for as EXTERNAL CHIMNEY SEAL.

CONCRETE CURB AND GUTTER (SPECIAL)

Lockport: November 2023

Revised: May 2025

This work shall consist of constructing concrete curb, concrete gutter, or combination concrete curb and gutter in accordance with Article 606 of the Standard Specifications and City of Lockport Details PAV-03 and PAV-04 and as stated below;

Revise Article 606.07 paragraph three (3); Replace 1 in. preformed expansion joint material to 3/4 in. preformed expansion joint material.

Revise Article 606.07 paragraph four (4); Replace the last sentence with "Two (2) epoxy coated dowel bars for expansion and connections between new and existing concrete curb, concrete gutter, or combination concrete curb and gutter concrete shall be spaced as shown on the plans, except two dowels



will be required for all curbs. Two (2) #4 epoxy coated reinforcement bars shall be placed continuous thru the new concrete curb, gutter or combination concrete curb and gutter. When replacement on concrete curb and gutter gap is less than 5 feet no epoxy #4 reinforcement bars are required.

Replace Article 606.13 with the following: “After the concrete has obtained the specified strength, the spaces in front and back of the construction shall be backfilled to the required elevation with topsoil which is incidental to this pay item. The material shall be compacted until firm and the surface neatly graded.”

The existing stone subbase may be reused if approved by the City. This subbase shall be tamped or rolled until thoroughly compacted and at the proper line and grade as shown on the plans. The City determines that the existing subbase is not sufficient, then CA-6 shall be placed at a depth not less than 4”. This stone subbase shall be included in the cost of curb or combination curb and gutter pay item and will not be paid for separately. All required excavation to achieve the proposed elevation of the bottom of the proposed subgrade will not be paid for separately but shall be included in this pay item.

For streets being resurfaced, a minimum of 1-foot of HMA pavement in front of the proposed curb shall be removed. This void shall be filled with class SI PCC at a minimum thickness of 8-inches. Removal of HMA pavement and installation of this concrete fill is considered incidental to the pay item.

Payment for combination curb and gutter shall be paid at the contract unit price per foot for CONCRETE CURB, of the type specified (SPECIAL), COMBINATION CONCRETE CURB AND GUTTER, of the type specified (SPECIAL). Payment shall be full compensation for all materials, labor, equipment, epoxy coated dowels and reinforcement bars, and incidentals to complete the item as shown on the plans and as specified.

MOBILIZATION

Lockport: November 2023

This Contract contains no provisions for Mobilization. Therefore, Section 671 of the Standard Specifications is deleted. No payments will be made for preparatory work, movement of personnel, equipment, supplies, or incidentals to the project site, or for any other work, operations, or costs which the Contractor must perform or incur when beginning work on the project.

TRAFFIC CONTROL AND PROTECTION (SPECIAL)

Lockport: November 2023

Description:

Traffic Control shall be according to the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein.

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

Contractor shall contact the City at least 72 hours in advance of beginning work.



STANDARDS:

7010001, 7010006, 701301, 701311, 701501, 701701, 701801, 701901

DETAILS:

Traffic Control and Protection for Side Roads, Intersections and Driveways (TC 10)

Typical Pavement Markings (TC 13)

SPECIAL PROVISIONS:

Maintenance of Roadways

Vehicle and Equipment Warning Lights (BDE)

Traffic Control Devices (BDE)

All roads shall remain open to traffic. Any road closure shall require the consent of the City. Contractor shall also maintain entrances and side roads along the proposed improvement. Interference with traffic movements and inconvenience to owners of abutting property and the public shall be kept to a minimum. Any delays or inconveniences caused by Contractor by complying with these requirements shall be included in the LUMP SUM, and no additional compensation will be allowed.

The Contractor shall always maintain at least one lane of traffic for local and emergency use. Entrances to driveways and side roads shall also be maintained.

On two lane roads, the Contractor is to plan his work so that there will be no open holes in the pavement and that all barricades will be removed from the pavement during non-work hours.

The “FRESH OIL” signs must be placed 48 hours in advance of placing tack coat in the area to be tacked and at all adjacent streets and parking lots or as directed by the City. The Contractor shall affix to each “FRESH OIL” sign an attachment indicating the anticipated date for application of bituminous materials tack coat. The attachment shall be a printed aluminum sign on engineer-grade white reflective sheeting, or other material approved by the City, and be black lettering with a minimum 6” font size. Other methods to provide notification of the weekday anticipated for application of bituminous prime coat will be allowed with prior approval by the City.

Basis of Payment

This work will be paid for at the contract LUMP SUM price for TRAFFIC CONTROL AND PROTECTION (SPECIAL). All traffic control and protection necessary to complete the work to the satisfaction of the ENGINEER shall be considered included in this pay item.

PRECONSTRUCTION VIDEOTAPING

Lockport: November 2023

Description

This work shall consist of furnishing all materials and labor required to perform a videotape survey of the construction limits, adjacent right-of-way, and adjacent structures bordering the Work. This shall include, but not be limited to, existing buildings, garages, pavements, curb and gutter, sidewalks, fences, trees, and landscaping. A copy of the videotape shall be furnished to City on a flash drive.

Videotaping shall be performed by a company acceptable to City in the presence of City’s and shall be performed prior to the commencement of construction. The videotape survey shall serve as a basis for establishing damage that has occurred as a result of construction operations.



Method of Measurement & Basis of Payment

This work will be paid for at the contract Lump Sum price for PRECONSTRUCTION VIDEOTAPING, which price shall be payment in full for the work specified herein.



PROJECT SPECIFIC SPECIAL PROVISIONS

EXCESS MATERIAL DISPOSAL REQUIREMENTS

Description: This work shall consist of the removal and disposal of surplus, unsuitable soils, fill material, incidental asphalt or concrete debris, and organic materials.

Project Waste Screening: The project has been screened for the potential to encounter contaminated soils or groundwater during proposed excavation. The project soils screening identified Potentially Impacted Properties (PIPs) within the project limits. Since the soil source is a PIP, CCDD soil certification was based on analytical sample results. See the attached *LPC-663 Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist* (V3 June 2026).

Soil Management Areas: Project soils were sampled for various contaminants based on the identified PIPs. Analytical results indicate some project soils were not suitable for CCDD disposal. The following soil management areas have been identified:

- **S-01 - 11th Street from STA. 2+50 to STA. 3+25 From centerline to project extent:** Soil sample S-01(2-3) detected pH and Lead Concentrations outside the acceptable CCDD range. Soils excavated from this area cannot be reused onsite and must be disposed of as non-special non-hazardous waste at a RCRA Subtitle D Landfill. See LPC-663 for map with the area excluded from CCDD certification.

The remainder of project soils can be reused onsite without restriction or are certified for CCDD disposal. The LPC-663 form and Project Summary are included in the bid documents (contact Logan Yanisch (lyanisch@v3co.com) and/or Dan Powers (dpowers@lockport.org) for full soil analysis and analytical results).

Demonstration of compliance with CCDD regulations and achievement of the Maximum Allowable Concentrations (MACs) does not guarantee soils and fill material will be accepted at all CCDD/Uncontaminated Soil Fill Operations (USFO). CCDD/USFO facilities are privately operated facilities and reserve the right to reject fill material on any criteria. The CCDD soil evaluation was conducted in accordance with applicable Illinois clean fill regulations and general industry standards. It is the earthwork contractor's responsibility to coordinate acceptance with the selected facility based on the provided LPC-663 documentation. CCDD/USFO facilities may have acceptance criteria which is more stringent than the minimum requirements of Title 35: Subtitle J: Chapter I: Part 1100. Any additional sampling or soil evaluation required by a contractor selected CCDD/USFO facility is the responsibility of the contractor, and can be provided by V3 at additional cost.

Environmental, geological, and geotechnical conditions can vary from those encountered at times and locations where data was obtained and may result in uncertainty with respect to the interpretation of these conditions, despite the use of standard professional care. V3 has used a level of care ordinarily exercised by professional consultants acting under similar circumstances in performing these services. Should conditions inconsistent with the findings contained within the LPC-663 be encountered during the course of the project, project soils should be reevaluated.

Project soil excavation and disposal, as required, shall be paid for under EARTH EXCAVATION, ROCK EXCAVATION, and NON-SPECIAL WASTE DISPOSAL in accordance with the Standard Specifications.



CONSTRUCTION LAYOUT

Description: The Contractor shall be responsible for all construction staking required to complete the project as specified herein.

The Contractor shall furnish and place construction layout stakes for this project. The Contractor will locate and reference the the centerline of survey and bench marks as shown in the plans. Control points set by the Contractor shall be identified in the field. The Contractor will be responsible for establishing additional ties if they are required, at no additional compensation.

The Contractor shall provide field forces, equipment, and material to set all additional stakes for this project, which are needed to establish offset stakes, reference points, and any other horizontal or vertical controls, including supplementary bench marks, necessary to secure a correct layout for the roadway portion of the work. Stakes for line and grade of pavement and/or curb shall be set at sufficient station intervals (not to exceed 50 ft (15 m)) to assure substantial conformance to plan line and grade. The Contractor will not be required to set additional stakes to locate a utility line which is not included as a pay item in the contract nor to determine property lines between private properties.

The Contractor shall be responsible for having the finished work conform to the lines, grades, elevations, and dimensions called for in the plans. Any inspection or checking of the Contractor's layout by the Engineer and the acceptance of all or any part of it shall not relieve the Contractor of his/her responsibility to secure the proper dimensions, grades, and elevations of the several parts of the work. The Contractor shall exercise care in the preservation of stakes and bench marks and shall have them reset when any are damaged, lost, displaced, removed, or otherwise obliterated.

Basis of Payment: This work shall be paid for at the contract unit price LUMP SUM for CONSTRUCTION LAYOUT, which shall include all labor, equipment, and materials required to complete the work as specified herein.

FENCE REMOVAL

Description: This work shall consist of the removal and disposal of existing fence at locations designated on the plans and/or designated by the Engineer. The work shall be completed according to Section 665 of the Standard Specifications and this special provision.

The Contractor shall remove all components of the existing fence including concrete used to anchor fence posts, bracing, guy wires, posts, and/or gates. All removed materials shall be disposed of outside the limits of the right-of-way according to Article 202.03 of the Standard Specifications and/or as directed by the Engineer.

Basis of Payment: This work will be measured and paid for at the contract unit price per LINEAR FOOT for FENCE REMOVAL, which price shall include all labor, equipment, and material to complete the work and no additional compensation will be allowed.

RETAINING WALL REMOVAL

Description: This work shall consist of the complete removal and satisfactory disposal of all stone or block retaining walls and retaining wall footings as shown in the removal plans or as determined by the Engineer. This work shall confirm to the applicable provisions of Section 501. Materials resulting from the removal operations shall be disposed of according to Article 202.03.



Basis of Payment: This work will be measured and paid for at the contract unit price per LINEAR FOOT for RETAINING WALL REMOVAL, which price shall include all labor, equipment, and material to complete the work and no additional compensation will be allowed.

SEGMENTAL CONCRETE BLOCK WALL

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: Furnishing materials and labor required for the design and construction of a ReCon precast modular block retaining wall or approved equal.

1.2 REFERENCES

- A. Precast Modular Block Units:
1. ASTM C-33 Specification for Concrete Aggregates
 2. ASTM C-39 Test Method for Compressive Strength of Cylindrical Concrete Specimens
 3. ASTM C-94 Specification for Ready-Mixed Concrete
 4. ASTM C-138 Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
 5. ASTM C-143 Test Method for Slump of Hydraulic-Cement Concrete
 6. ASTM C-260 Specification for Air-Entraining Admixtures for Concrete
 7. ASTM C-494 Specification for Chemical Admixtures for Concrete
 8. ASTM C1611 Test Method for Slump Flow of Self-Consolidating Concrete
 9. ASTM C-1776 Standard Specification for Wet-Cast Precast Modular Block Retaining Wall Units
- B. Drain Pipe:
1. ASTM D-3034 Standard Specification for Type PSM (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
 2. ASTM F-2648 Standard Specification for 2 to 60 inch [50 to 1500 mm] Annular Corrugated Profile Wall Polyethylene (PE) Pipe and Fittings for Land Drainage Applications
- C. Geosynthetics:
1. ASTM D-4595 Tensile Properties of Geotextiles - Wide Width Strip
 2. ASTM D-4873 Standard Guide for Identification, Storage and Handling of Geosynthetics
 3. ASTM D-5262 Unconfined Tension Creep Behavior of Geosynthetics
 4. ASTM D-5321 Standard Test Method for Determining the Coefficient of Soil and Geosynthetic or Geosynthetic and Geosynthetic Friction by the Direct Shear Method
 5. ASTM D-5818 Standard Practice for Obtaining Samples of Geosynthetics from a Test Section for Assessment of Installation Damage
 6. ASTM D-5970 Standard Test Method for Deterioration of Geotextiles from Outdoor Exposure
 7. ASTM D-6637 Standard Test Method for Determining Tensile Properties of Geogrids by the Single- or Multi-Rib Tensile Method



8. ASTM D-6638 Standard Test Method for Determining Connection Strength Between Geosynthetic Reinforcement and Segmental Concrete Units
 9. ASTM D-6706 Standard Test Method for Measuring Geosynthetic Pullout Resistance in Soil
- D. Engineering Design:
1. NCMA Design Manual for Segmental Retaining Walls, Current Edition
 2. AASHTO LRFD Bridge Design Specifications, Current Edition
 3. International Building Code (IBC), Current Edition
 4. Minimum Design Loads for Buildings and Structures, ASCE 7, Current Edition
- E. Soils:
1. ASTM D-422 Standard Test Method for Particle-Size Analysis of Soils
 2. ASTM D-448 Standard Classification for Sizes of Aggregates for Road and Bridge Construction
 3. ASTM D-698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/f³) (600 kN-m/m³)
 4. ASTM D-1241 Standard Specification for Materials for Soil-Aggregate Subbase, Base and Surface Courses
 5. ASTM D-1556 Standard Test Method for Density and Unit Weight of Soil in Place by the Sand Cone Method
 6. ASTM D-1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/f³) (2700 kN-m/m³)
 7. ASTM D-2487 Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System)
 8. ASTM D-3080 Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions
 9. ASTM D-4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
 10. ASTM D-4767 Test Method for Consolidated-Undrained Triaxial Compression Test for Cohesive Soils
 11. ASTM D-6938 Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
 12. ASTM D-G51 Standard Test Method for Measuring pH of Soil for Use in Corrosion Testing
- F. ReCon Construction Detail Drawings: www.reconwalls.com (or approved equal)

1.3 DEFINITIONS

- A. Geogrid: A geosynthetic material manufactured of high tensile materials specifically for the purpose of reinforcing and creating a structural soil mass.
- B. Drainage Aggregate: Clean, crushed rock located within and immediately behind ReCon units to facilitate drainage and avoid compaction in close proximity to ReCon wall units.
- C. Reinforced Soil: Soil zone extending from the Drainage aggregate zone to the back of the embedded geogrid.



- D. Foundation Soil: Soil zone immediately beneath the retaining wall facing units, the wall leveling pad and the reinforced soil zone.
- E. Retained Soil: Soil immediately behind retaining wall facing and drainage aggregate for modular gravity structures or behind the reinforced soil for wall that utilize geogrid.
- F. Construction Drawings: Approved final plan for construction prepared and stamped by the wall design engineer licensed to practice in the state where the retaining wall is located.

1.4 Submittals

- A. Contractor shall submit Manufacturer's product data and installation instructions for approval.
- B. Contractor shall submit Manufacturer's test reports certifying that the ReCon units manufactured at their production facility meet the requirements of this specification and the requirements of the Construction Drawings.
- C. Unless provided within these project documents and/or the project drawings, contractor shall submit two sets of the Construction Drawings for all ReCon retaining walls on the project.
 - 1. The design shall be prepared by a Professional Engineer licensed to practice in the state where the retaining wall is located.
 - 2. The design shall be per NCMA Design Guidelines for Segmental Retaining Walls, or the AASHTO Standard Specifications for Highway Bridges, whichever is applicable as determined by the retaining wall design engineer.
 - 3. Construction Drawings shall include:
 - a. The retaining wall layout and retaining wall heights.
 - b. Proper placement, lengths and types of geogrid reinforcement where necessary.
 - c. Typical wall sections.
 - d. Types, locations and properties of all drainage materials, appurtenances and special installation requirements not covered in this specification.
 - e. Retaining wall elevation views.
 - f. Any soils information or testing conducted in addition to that included within the project drawings and specifications.
 - g. Design assumptions.
- D. If geogrid reinforcement is required in the final engineered construction drawings, submit manufacturer's product literature, product testing reports and a twelve inch or larger sample of each type to be used in wall construction.
- E. Submit gradation reports for aggregates used for the wall leveling pad, unit / drainage fill and for select reinforced fill if required in the final engineered wall design.
- F. All submittals must be provided and reviewed prior to the start of retaining wall construction.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Contractor shall inspect all products at delivery to determine that the proper materials have been delivered and are usable. Damaged material shall not be incorporated into the work.
- B. ReCon retaining wall units shall be stored in a location and manner that protects against excessive weathering and damage.
- C. Contractor shall prevent ReCon units from excessive soiling and coming in contact with substances which may stain or adhere to the finished visual surfaces of the unit.



- D. Faces of the ReCon Block shall be free of excessive chipping, cracking and stains.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Contractor shall have successfully installed at least three projects similar to that of this project within the last two years. Contractor shall maintain at least one mechanic on site at all times that worked on one or more of these previous installations.
- B. Owner shall employ the services of an independent geotechnical or materials engineering firm to provide soil testing and quality assurance inspection for wall construction and soils work. Contractor shall provide any quality control testing or inspection not provided by the Owner.
- C. Retaining Wall Design Engineer Qualifications: The Retaining Wall Design Engineer shall be licensed to practice in the state in which the project located. Additionally, the Retaining Wall Design Engineer shall be independently capable of performing all retaining wall analysis calculations (internal and external stability, seismic analysis, water analysis, and global stability) and have designed at least three wall projects similar to that of this project.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Only licensed and authorized manufacturers of:
1. ReCon Wall Systems, Inc.
7600 West 27th St., #229
St Louis Park, MN 55426
(952) 922-0027 Phone
(952) 922-0028 Fax
www.reconwalls.com

- B. Other approved equal may be requested

2.2 MATERIALS

- A. ReCon retaining wall units.
1. The block unit shall consist of concrete with the average 28-day compressive strength of no less than 4000 psi.
 2. Concrete shall have air entrainment by volume (as measured in the plastic state in accordance with ASTM C172) of:
 - a. 5.5 – 8.5 percent, or
 - b. In conformity with ASTM C94, latest revision.
 3. Exterior dimensions of the face shall be 48-inches by 16-inches for full and corner unit, and 24-inches by 16-inches for half unit.
 4. Depth of unit should be as per Construction Drawings and is available in depths from 24-inches up to 84-inches (dimensions in inches: 24, 39, 45, 60, 66, 72, 78, 84).
 5. ReCon Units used shall maintain tolerances of:
 - a. Height: +/- 3/16-inch
 - b. Width: +/- 1/2-inch unless field cut for fitting purposes.



- c. Depth: No less than the unit design depth (i.e. 24-inch, 39-inch, etc.) with the textured face portion of the block is considered as 4-inches
- 6. Special shape units should be obtained and used where indicated on the final engineered construction drawings. Reference ReCon Drawing #101 for overview of standard unit types.
- 7. ReCon Unit Face Texture
 - a. Shall be “North Shore Granite”
- B. Geogrid Reinforcement: Geosynthetic reinforcement shall be high tensile geogrid or geotextile manufactured specifically for soil reinforcement applications.
 - 1. Construction Drawings shall indicate the type, strength, location and lengths of reinforcement used.
 - 2. The geosynthetic manufacturer shall provide all relevant testing to the wall design engineer for incorporation in the wall design and shall be included in the submittal for the Construction Drawings.
 - 3. No substitutions of geosynthetic shall be allowed that was not evaluated in the Construction Drawings.
- C. Base Leveling Pad: The wall base leveling pad material shall consist of a compacted crushed stone base or non-reinforced concrete as indicated in the Construction Drawings.
- D. Drainage Aggregate: Drainage aggregate shall consist of clean 3/4” crushed stone or gravel meeting the requirements of the Construction Drawings.
- E. Reinforced Soil: All reinforced soil, borrow or imported, shall meet all requirements of the Construction Drawings. Reinforced soils, by gradation, shall have no more than 35 percent passing the number 200 sieve for walls less than 20-feet in height and no more than 15 percent passing the number 200 sieve for walls greater than 20-feet in height.
- F. Drainage Pipe: Is required in Construction Drawings, drainage pipe shall be perforated or slotted PVC pipe manufactured in accordance with ASTM D-3034 or ASTM D-2412. Drainage pipe shall also be covered with a geotextile filter fabric (filter sock).
- G. Unit Adhesive: Adhesive shall be a premium, construction grade suitable for concrete and exterior applications.
- H. Cleanouts: underdrain cleanouts are required at all bends as shown on the plans. Cleanouts shall be adjusted to finished grade.

2.3 FINISHES

- A. ReCon retaining wall color
 - 1. Finished wall shall be left in natural (as-cast) color.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify locations of utilities and existing structures prior to excavation.



- B. Examine the Project site and evaluate conditions where the ReCon retaining wall will be constructed. Notify the proper supervising authority in writing of any conditions that may interfere with the proper construction of the ReCon wall or delay completion.
- C. Promptly notify the wall design engineer of site conditions which may affect wall performance, soil conditions observed other than those assumed, or other conditions that may require a reevaluation of the wall design.

3.2 EXCAVATION

- A. Contractor shall excavate to the lines and grades shown on the construction drawings. The contractor shall be careful not to disturb the base beyond the lines indicated.
- B. Foundation soils shall be excavated as required for footing base / leveling pad dimensions shown on the construction drawings, or as directed by the wall engineer.
- C. Over-excavated areas shall be filled with suitable base or backfill material and compacted to 95 percent standard proctor.

3.3 FOUNDATION SOILS PREPARATION

- A. Foundation soils shall be evaluated by a Geotechnical Engineer or Owners Representative to ensure that the bearing soils meet or exceed the design conditions or assumptions.
- B. Compact foundation soil zone to 95 percent standard proctor prior to installing base / leveling pad.

3.4 BASE / LEVELING PAD

- A. Base shall be located as indicated on the Construction Drawings and shall have a minimum thickness of 6-inches. Base materials are to be as specified by the wall engineer (generally crushed stone, 3/4-inch minus, or similar).
- B. Width of the base pad must extend a minimum of 6-inches in front and 6-inches in back of the ReCon Base Block footprint.
- C. Base material shall be compacted so as to provide a smooth, hard surface on which to place the first course of units.
- D. Compact base material to 95 percent of standard proctor.
- E. Base shall be prepared to ensure full contact of the wall unit with base material. Spacing or gaps between units shall no exceed 1/2-inch.
- F. Contractor may elect to substitute a portion of the specified granular base materials with a lean, unreinforced concrete topping.
- G. When a reinforced footing is required by the Construction Drawings, it shall be located below the frost line.

3.5 UNIT INSTALLATION

- A. First course of units shall be Base Block units and shall be placed in full contact with the base material.



- B. Check units for level from side-to-side, front to back, and check to maintain unit batter front-to-back.
- C. Place unit faces in contact side to side and avoid any gaps greater than 1/2-inch.
- D. Fill and compact fill to grade in front of embedded units prior to compaction behind the wall units.
- E. Fill voids between ReCon units with 3/4-inch clean crushed rock to a distance of one foot behind the unit depth unless otherwise instructed in the Construction Drawings.
- F. Sweep and clean the top of each course before setting additional courses.
- G. Lay each successive course making sure that the bottom recess is in full contact with the unit locators of the course below. Pull unit forward as far as possible. Backfill and compact soil behind the units.
- H. Check and maintain level and wall batter by use of shims when necessary.
- I. Follow ReCon recommended procedures to maintain acceptable running bond when constructing curved walls and / or corners. Build in accordance with Construction Drawings or ReCon Construction Detail Drawings.
- J. Handle units with proper lifting devices that have been certified for the loads associated with the weights of the units. Avoid applying forces to the lifting loops in excess of the normal force associated with the weight of the unit (i.e., avoid dynamic loads from bouncing or swinging of a unit). If the unit is to be transported over a significant distance in the field, it is recommended that a CABLE be used in lieu of a chain.

3.6 GEOGRID INSTALLATION

- A. Install geosynthetic reinforcement in accordance with manufacturer's recommendations and the Construction Drawings.
- B. Locate geosynthetic reinforcement at elevations and to the lengths shown on the Construction Drawings.
- C. Prior to installation of geosynthetic reinforcement, level and compact backfill material to the level of the reinforcement layer.
- D. Reinforcement design strength direction must be oriented perpendicular to wall face.
- E. Position reinforcement on ReCon units over the tongue and groove and to within 2-inches of the front exposed face. The next course of units shall be placed such that the geogrid is deformed over the tongue and groove. The next course of units must be slid forward such that the back edge of the groove on this unit is up against the back edge of the tongue on the lower unit with the geogrid pinched between the tongue and groove. Hold in place by installing the next course of units.
- F. Remove all wrinkles or folds in reinforcement by pulling taut prior to backfill placement. Secure using soil staples, stakes or hand tension until reinforcement is covered with sufficient fill to maintain tensioned position.
- G. Reinforcement shall be continuous throughout the embedment length. Splicing along reinforcement strength direction is not allowed.
- H. Position reinforcement sections side-by-side to provide 100 percent coverage along wall face.
- I. Where curved wall sections cause overlap areas in reinforcement, maintain at least 3-inches of soil between layers where overlap occurs.



3.7 REINFORCED BACKFILL PLACEMENT

- A. Wall fill material shall be placed in lifts no greater than 8-inches in depth and shall be less if necessary to achieve necessary compaction.
- B. Compact backfill material to 95 percent of standard proctor.
- C. Only hand-operated compaction equipment shall be used within 3-feet of the back of the ReCon unit. Heavy-duty compaction equipment should be kept a minimum of 5-feet from the back of the ReCon unit to avoid wall rotation.
- D. Wherever possible, backfill should be placed beginning at the face of the wall. Backfill shall be placed, spread, and compacted in a manner that minimizes the development of wrinkles, folds or movement of geogrid.
- E. Tracked construction equipment shall not be operated directly on the geogrid. A minimum backfill thickness of 6-inches is required prior to operation of tracked vehicles over the geogrid. Turning of tracked vehicles should be kept to a minimum to prevent tracks from displacing the fill and damaging the geogrid.
- F. Rubber tired equipment may pass over the geogrid reinforcement at slow speeds, (less than 10 MPH). Avoid sudden braking and sharp turning.
- G. At the conclusion of each day's work, slope backfill at both the crest and bottom of wall away from wall face to prevent surface drainage from scouring or ponding.
- H. During wall construction, the General Contractor shall be responsible for coordination of other project site operations so as to avoid adjacent construction site drainage from affecting wall construction area.
- I. Upon completion of wall construction work, the General Contractor shall:
 - 1. Ensure finished grading directs normal drainage away from the finished wall.
 - 2. Ensure other trades do not operate heavy equipment or excavate near the wall and reinforced soil zone.

3.8 OTHER CONSTRUCTION DETAILS

- A. ReCon provides a number of Construction Detail Drawings (see Section 1.2F) which can be found on ReCon's website (www.reconwalls.com) and should be referred to for guidance on wall specific applications.

3.9 SITE TOLERANCES

- A. Straight walls
 - 1. Vertical Alignment: +/- 1.5-inches over any 12-foot distance and no more than +/- 3-inches over the entire length of wall.
- B. Horizontal Alignment Control:
 - 2. Corners and radius location: +/- 1-foot to theoretical location indicated on the Grading Plan.
 - 3. Radii: +/- 2-feet from theoretical lines indicated on the Grading Plan.
- C. Wall Batter at Completion of Work: +/- 2-degrees from the design batter and no batter less than 2-degrees.



3.10 FIELD QUALITY CONTROL

- A. Contractor shall be responsible for proper installation and quality control of all ReCon wall components and appurtenant materials.
- B. Owner shall, at their expense, retain a qualified professional to monitor and perform quality assurance checks of the installer's work.
- C. Quality Assurance should include foundation soil inspection, frequent backfill compaction testing, verification of geotechnical design parameters and compliance with Construction Drawings and Project Specifications.

3.11 CLEANING

- A. After completion of wall installation, remove construction debris and restore any adjacent finished areas affected by wall construction to their pre-construction state.
- B. Wash wall face to remove soiling and stains. Do not use acid or detergents that may "burn" or discolor face.
- C. Wall blocks shall be free of concrete form imperfections.

Basis of Payment. This work shall be paid for at the contract unit price per FACE SQUARE FOOT for SEGMENTAL CONCRETE BLOCK WALL which price shall include all required labor, material, equipment, and all necessary incidental work.

MONTAGE MAJESTIC 3-RAIL FENCE, 4' HEIGHT

Description

This work shall consist furnishing and installing metal fencing according to the plans, details, manufacturer specifications, and as described herein.

Prior to ordering fence materials, the Contractor shall provide the Engineer with the Manufacturer's drawings and specifications for the selected product for approval. The submittal shall include the Manufacturer's information including name, address, phone number, and email address.

Concrete foundations shall be included for each fence post as per the manufacturer specifications. The foundations shall be 8" minimum diameter, and a minimum 4' depth from finished grade. Concrete foundation materials shall be in accordance with section 1020 of the Standard Specifications, Class SI Concrete.

Method of Measurement and Basis of Payment

This work will be measured and paid for at the contract unit price per foot for MONTAGE MAJESTIC 3-RAIL FENCE, 4' HEIGHT, which shall include all materials, labor, transportation, earth excavation, backfill, concrete foundations and all equipment necessary to complete the work as specified herein.



BRICK PAVERS

Description: This work shall consist of the installation of brick pavers (also identified as “Unit Pavers”), formwork, bedding material, geotextile fabric, finishing, and all other appurtenances as shown in the plan details and at the locations shown on the plans.

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes the following:
 - 1. Concrete Pavers
 - 2. Joint Sand
 - 3. Setting Bed Sand
 - 4. Base Aggregate

1.02 REFERENCES

- A. ASTM International, latest edition:
 - 1. C 33, Standard Specification for Concrete Aggregates.
 - 2. C 67, Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile, Section 8, Freezing and Thawing.
 - 3. C 136, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - 4. C 140, Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units.
 - 5. C 144 Standard Specifications for Aggregate for Masonry Mortar.
 - 6. D 448, Standard Classification for Sizes of Aggregate for Road and Bridge Construction.
 - 7. C 936, Standard Specification for Solid Concrete Interlocking Paving Units.
 - 8. C 979, Standard Specification for Pigments for Integrally Colored Concrete.
 - 9. D 698 Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 5.5 lb (24.4 N) Rammer and 12 in. (305 mm) drop.
 - 10. D 1557 Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 10-lb (44.5 N) Rammer and 18 in. (457 mm) drop.
 - 11. C1645 Standard Test Method for Freeze-thaw and De-icing Salt Durability of Solid Concrete Interlocking Paving Units
 - 12. D 1883, Test Method for California Bearing Ratio of Laboratory-Compacted Soils.
 - 13. D 2940 Graded Aggregate Material for Bases or Subbases for Highways or Airports.
 - 14. D 4254, Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density.
 - 15. D 5261, Standard Test Method for Measuring Mass per Unit Area of Geotextiles
 - 16. D 4632, Standard Test Method for Grab Breaking Load and Elongation of Geotextiles
 - 17. D 4533, Standard Test Method for Index Trapezoidal Tearing Strength of Geotextiles
 - 18. D 4833, Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products
 - 19. D 4491, Standard Test Method for Water Permeability of Geotextiles by Permittivity
 - 20. D 4751, Standard Test Method for Determining Apparent Opening Size of a Geotextile
 - 21. D 4354, Standard Practice for Sampling of Geosynthetics for Testing
 - 22. D 4759, Standard Practice for Determining the Specifications Conformance of Geosynthetics

1.03 SUBMITTALS

- A. Concrete Pavers:
 - 1. Samples for verification: Three representative full-size samples of each paver type, thickness, color and finish that indicate the range of color variation and texture expected upon project completion.



2. Accepted samples become the standard of acceptance for the product produced.
3. Test results from an independent testing laboratory for compliance of concrete pavers with ASTM C 936.
4. Manufacturer's catalog product data, installation instructions, and material safety data sheets for the safe handling of the specified materials and products.
- B. Joint and Setting Bed Sand:
 1. Provide three representative one pound samples in containers of Joint Polymeric sand materials.
 2. Provide three representative one pound samples in containers of Setting Bed Sand materials.
 3. Test results from an independent testing laboratory for sieve analysis per ASTM C 136 conforming to the grading requirements of ASTM C 144.
- C. Base and Subbase Aggregate:
 1. Test results from an independent testing laboratory for sieve analysis per ASTM C 136.
- D. Paving Installation Contractor:
 1. Job references from a minimum of three projects similar in size and complexity. Provide Owner/Client/General Contractor names, postal address, phone, fax, and email address.

1.04 QUALITY ASSURANCE

- A. Utilize a Manufacturer having at least ten years of experience manufacturing concrete pavers on projects of similar nature or project size.
- B. Source Limitations:
 1. Obtain Concrete Pavers from one source location with the resources to provide products of consistent quality in appearance and physical properties.
 2. Obtain Joint and Setting Bed Sands from one source with the resources to provide materials and products of consistent quality in appearance and physical properties.
- C. Paving Contractor Qualifications:
 1. Utilize an installer having successfully completed concrete paver installation similar in design, material, and extent indicated on this project.
- D. Mockups:
 1. Install a 5 ft x 5 ft paver area per each paving pattern.
 2. Use this area to determine surcharge of the Setting Bed Sand layer, joint sizes, lines, laying pattern(s) and levelness. This area will serve as the standard by which the workmanship will be judged.
 3. Subject to acceptance by owner, mock-up may be retained as part of finished work.
 4. If mock-up is not retained, remove and dispose legally.

1.05 DELIVERY, STORAGE & HANDLING

- A. Deliver Concrete Pavers in manufacturer's original, unopened and undamaged container packaging with identification labels intact.
 1. Coordinate delivery and paving schedule to minimize interference with normal use of streets and sidewalks adjacent to paver installation.
 2. Deliver Concrete Pavers to the site in steel banded, plastic banded or plastic wrapped packaging capable of transfer by forklift or clamp lift.
 3. Unload Concrete Pavers at job site in such a manner that no damage occurs to the product or adjacent surfaces.
- B. Store and protect materials free from mud, dirt and other foreign materials.
- C. Prevent Joint and Setting Bed Sand from exposure to rainfall or removal by wind with secure, waterproof covering.



1.06 PROJECT/SITE CONDITIONS

- A. Environmental Requirements:
 - 1. Install Concrete Pavers only on unfrozen and dry Setting Bed Sand.
 - 2. Install Setting Bed Sand only on unfrozen and dry Base or Subbase Aggregate materials.
 - 3. Install Base or Subbase Aggregates only over unfrozen subgrade.
 - 4. Install Setting Bed Sand or Concrete Pavers when no heavy rain or snowfall are forecast within 24 hours.

1.07 CONCRETE PAVER OVERAGE AND ATTIC STOCK

- A. Provide a minimum of 5% additional material for overage to be used during construction.
- B. Contractor to provide 100 square feet of each product and size used to owner for maintenance and repair. Furnish Pavers from the same production run as installed materials.
- C. Manufacture to supply maintenance and reinstatement manuals for Concrete Paver units.

PART 2 PRODUCTS

2.01 CONCRETE PAVERS

- A. Basis-of-Design Product: The Concrete Paver shapes are based on:
 - 1. Unilock:
IL Campo
 - 2. As manufactured by:
Unilock (or approved equal)
301 E. Sullivan Road
Aurora, IL 60505
Brad Swanson
Office: 630-892-9191
Mobile: 630-742-4168
Email: brad.swanson@unilock.com
 - 3. The specified products establish minimum requirements that substitutions must meet to be considered acceptable.
- B. Provide pavers meeting the minimum material and physical properties set forth in ASTM C 936, Standard Specification for Interlocking Concrete Paving Units. Efflorescence is not a cause for rejection.
 - 1. Average compressive strength 8000 psi (55MPa) with no individual unit under 7,200 psi (50 MPa).
 - 2. Average absorption of 5% with no unit greater than 7% when tested according to ASTM C 140.
 - 3. Resistance to 50 freeze-thaw cycles, when tested according to ASTM C1645, with no breakage greater than 1.0% loss in dry weight of any individual unit. Conduct this test method not more than 12 months prior to delivery of units.
- C. Accept only pigments in concrete pavers conforming to ASTM C 979.
Note: ACI Report No. 212.3R provides guidance on the use of pigments.
- D. Maximum allowable breakage of product is 5%.
- E. Paver color shall be as shown in plan details. White-tone pavers are required to delineate parking stall areas as shown in the plans and shall have sufficient contrast from the standard paver color.

2.02 POLYMERIC JOINT SAND

- A. Provide Polymeric Joint Sand as follows:



1. Washed, clean, non-plastic, free from deleterious or foreign matter, symmetrically shaped, natural or manufactured from crushed rock.
2. Do not use limestone screenings, stone dust, or sand for the Joint Sand material that does not conform to the grading requirements of ASTM C 33.
4. Utilize sands that are as hard as practically available where concrete pavers are subject to vehicular traffic.
5. Gradation as shown in Table 1 below:

TABLE 1 – JOINT SAND
GRADATION REQUIREMENTS FOR JOINT SAND

ASTM C 144		
Sieve Size	Natural Sand Percent Passing	Manufactured Sand Percent Passing
No. 4 (4.75 mm)	100	100
No. 8 (2.36 mm)	95 to 100	95 to 100
No. 16 (1.18 mm)	70 to 100	70 to 100
No. 30 (0.600 mm)	40 to 75	40 to 75
No. 50 (0.300 mm)	10 to 30	20 to 40
No. 100 (0.150 mm)	2 to 15	10 to 25
No. 200 (0.075)	0 to 1	0 to 10

2.04 SETTING BED SAND

A. Provide Setting Bed Sand as follows:

1. Washed, clean, non-plastic, free from deleterious or foreign matter, symmetrically shaped, natural or manufactured from crushed rock.
2. Do not use limestone screenings, stone dust, or sand material that does not conform to the grading requirements of ASTM C 33.
3. Do not use mason sand or sand conforming to ASTM C 144.
4. Utilize sands that are as hard as practically available where concrete pavers are subject to vehicular traffic.
5. Conform to the grading requirements of ASTM C 33 with modifications as shown in Table 2 below:

TABLE 2 – SETTING BED SAND
GRADATION REQUIREMENTS FOR SETTING BED SAND

ASTM C 33	
Sieve Size	Percent Passing
3/8 in (9.5 mm)	100
No. 4 (4.75 mm)	95 to 100
No. 8 (2.36 mm)	85 to 100
No. 16 (1.18 mm)	50 to 85
No. 30 (0.600 mm)	25 to 60
No. 50 (0.300 mm)	10 to 30
No. 100 (0.150 mm)	2 to 10



No. 200 (0.075)	0 to 1
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Note: Coarser sand than that specified in Table 1 above may be used for joint sand including C 33 material as shown in Table 2. Use material where the largest sieve size easily enters the smallest joints. For example, if the smallest paver joints are 2 mm wide, use sand 2 mm and smaller in particle size. If C 33 sand is used for joint sand, extra effort may be required in sweeping material and compacting the pavers in order to completely fill the joints.

2.05 BASE AGGREGATE

- A. Provide in accordance with Section 351 of the Standard Specifications and as shown in the plans.

2.06 CONCRETE SUBBASE

- A. Provide in accordance with Section 424 of the Standard Specifications and as shown in the plans.

2.07 GEOTEXTILE

- A. Provide Geotextile material conforming to the following performance characteristics, measured per the test methods referenced:
1. 4 oz., nonwoven needle punched geotextile composed of 100% polypropylene staple fibers that are inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.
 2. Grab Tensile Strength: ASTM D 4632: 115 lbs.
 3. Grab Tensile Elongation: ASTM D 4632: 50%
 4. Trapezoidal Tear: ASTM D4533: 50 lbs.
 5. Puncture: ASTM D4833: 65 lbs.
 6. Apparent Opening Size: ASTM D 4751: 0.212 mm, 70 U.S. Sieve
 7. Permittivity: ASTM D 4491: 2.0 sec -1
 8. Flow Rate: ASTM D 4491: 140 gal/min/s.f.

2.08 EDGE RESTRAINTS

- A. The provision of suitable edge restraints is critical to the satisfactory performance of interlocking concrete block pavement. The pavers must abut tightly against the restraints to prevent rotation under load and any consequent spreading of joints. The restraints must be sufficiently stable that, in addition to providing suitable edge support for the paver units, they are able to withstand the impact of temperature changes, vehicular traffic and/or snow removal equipment.
- B. Curbs, gutters or curbed gutter, constructed to the dimensions of municipal standards (noting that these standards generally refer to cast-in-place concrete sections), are considered to be acceptable edge restraints for heavy duty installations. Where extremely heavy industrial equipment is involved such as container handling equipment, the flexural strength of the edge restraint should be carefully reviewed, particularly if a section that is flush with the surface is used and may be subjected to high point loading.
- C. Edge restraints shall be used along all unrestrained paver edges or as shown in the plans or directed by the Engineer, and supported on a minimum of 6 in. (150mm) of aggregate base.
- D. This work shall be done in accordance with Sections 311 and 424 of the Standard Specifications.



- E. In some locations the width of the edge may be varied at the direction of the Engineer to meet the existing building line. The cost of any such variances shall be included in this item.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas indicated to receive paving for compliance with requirements for installation tolerances and other conditions affecting performance for the following items before placing the Concrete Pavers.
 - 1. Verify that subgrade preparation, compacted density and elevations conform to specified requirements.
 - 2. Verify that Geotextiles, if applicable, have been placed according to drawings and specifications.
 - 3. Verify that the Base and Subgrade materials, thickness, compacted density, surface tolerances and elevations conform to specified requirements.
 - 4. Provide written density test results for soil subgrade, Base and Subbase materials to the Owner, General Contractor and paver installation subcontractor.
 - 5. Verify location, type, and elevations of edge restraints, concrete curbing, concrete collars around utility structures, and drainage inlets.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
 - 1. Beginning of Bedding Sand and Concrete Paver installation signifies acceptance of Base and edge restraints.

3.02 PREPARATION

- A. Verify that the subgrade soil is free from standing water.
- B. Stockpile Setting Bed Sand, Polymeric Joint Sand, Base and Subgrade materials such that they are free from standing water, uniformly graded, free of any organic material or sediment, debris, and ready for placement.
- C. Remove any excess thickness of soil applied over the excavated soil subgrade to trap sediment from adjacent construction activities before placing the Geotextile and Subbase materials.
- D. Keep area where pavement is to be constructed free from sediment during entire job. Remove and replace all Geotextile, Joint Sand, Setting Bed Sand, Base and Subbase materials contaminated with sediment with clean materials.
- E. Complete all subdrainage of underground services within the pavement area in conjunction with subgrade preparation and before the commencement of Base or Subbase construction.
- F. Prevent to damage underdrain pipes, overflow pipes, observation wells, or inlets and other drainage appurtenances during installation. Report all damage immediately.
- G. Compact soil subgrade uniformly to at least 95 percent of Standard Proctor Density per ASTM D 698 for pedestrian areas. Compact soil subgrade uniformly to at least 98 percent Modified Proctor per ASTM D 1557 for vehicular areas. Stabilization of the subgrade and/or base material may be necessary with weak or saturated subgrade soils.
- H. Backfill all service trenches within the pavement area to the sub-grade level with approved material placed in uniform lifts not exceeding 4 in. (100 mm) loose thickness. Compact each lift to at least 100 percent Standard Proctor Density as specified in ASTM D 698.
- I. Trim the subgrade to within 0 to ½ in. (0 to 13mm) of the specified grades. Do not deviate the surface of the prepared subgrade by more than 3/8 in. (10mm) from the bottom edge of a 39 in. (1m) straight edge laid in any direction.
- J. Proof-roll prepared subgrade according to applicable sections of the Standard Specifications to identify soft pockets and areas of excess yielding. Excavate soft spots,



unsatisfactory soils, and areas of excessive pumping or rutting and replace with compacted backfill or fill as directed.

- K. Do not proceed with further pavement construction, under any circumstances, until the subgrade has been inspected by the Architect/Engineer.
- L. Edge Restraint Preparation: (if not using a concrete edge restraint)
 - 1. Install edge restraints per the drawings.
 - 2. Mount directly to finished base. Do not install on bedding sand.
 - 3. Extend the minimum distance from the outside edge of the Concrete Underlayment to the spikes equal to the thickness of the slab.

3.03 INSTALLATION

A. GEOTEXTILES

- 1. Provide separation geotextile on top of the PCC Base Course weep holes. The fabric is to be installed to prevent the setting sand from clogging the weep holes.

B. BASE AGGREGATE

- 1. Provide in accordance with applicable sections of the Standard Specifications and as shown in the plans.
- 2. Provide the Base Aggregate material in uniform lifts not exceeding 6 in. (150 mm) over the compacted or Subgrade material and compact to at least 100 percent Standard Proctor Density as per ASTM D 698.
- 3. Compact the Base Aggregate material with at least two passes in the vibratory mode then at least two in the static mode with a minimum 10 ton vibratory roller until there is no visible movement. Do not crush aggregate with the roller.
- 4. Tolerance: Do not exceed the specified surface grade of the compacted Base Aggregate material more than $\pm 3/8$ in. (10 mm) over a 10 ft. (3 m) long straightedge laid in any direction.
- 5. Compact and grade the upper surface of the base sufficiently to prevent infiltration of the bedding sand into the base both during construction and throughout its service life. Blend segregated areas of the granular base by the application of crushed fines that have been watered and compacted into the surface.

C. SETTING BED SAND

- 1. Provide and spread Setting Bed Sand evenly over the Base Aggregate course and screed to a nominal thickness of 1 in. (25 mm).
 - a. Protect screeded Setting Bed Sand from being disturbed by either pedestrian or vehicular traffic.
 - b. Screed only the area which can be covered by pavers in one day.
 - c. Do not use Setting Bed Sand material to fill depressions greater in the base surface.
- 2. Keep moisture content constant and density loose and constant until Concrete Pavers are set and compacted.
- 3. Screed the Setting Bed Sand using either an approved mechanical spreader (e.g.: an asphalt paver) or by the use of screed rails and boards.
- 4. Carefully maintain spread Setting Bed Sand in a loose condition, and protected against incidental compaction, both prior to and following screeding. Loosen any incidentally compacted sand or screeded sand left overnight before further paving units are placed.
- 5. Provide lightly screeded Setting Bed Sand in a loose condition to the predetermined depth, only slightly ahead of the paving units.



6. Fully protect screed Setting Bed Sand against incidental compaction, including compaction by rain. Remove any screeded Setting Bed Sand that is incidentally compacted prior to laying of the paving units.
7. Inspect the Setting Bed Sand course prior to commencing the placement of the Concrete Pavers. Acceptance of the Setting Bed Sand occurs with the initiation of Concrete Paver placement.

D. CONCRETE PAVERS

1. Replace Concrete Pavers with chips, cracks, voids, discolorations, and other defects that might be visible in finished work.
2. Mix Concrete Pavers from a minimum of three (3) bundles simultaneously drawing the paver vertically rather than horizontally, as they are placed, to produce uniform blend of colors and textures. (Color variation occurs with all concrete products. This phenomenon is influenced by a variety of factors, e.g. moisture content, curing conditions, different aggregates and, most commonly, from different production runs. By installing from a minimum of three (3) bundles simultaneously, variation in color is dispersed and blended throughout the project).
3. Exercise care in handling face mix concrete pavers to prevent surfaces from contacting backs or edges of other units.
4. Provide Concrete Pavers using laying pattern as indicated. Adjust laying pattern at pavement edges such that cutting of edge pavers is minimized. Cut all pavers exposed to vehicular tires no smaller than one-third of a whole paver.
5. Use string lines or chalk lines on Setting Bed Sand to hold all pattern lines true.
6. Set surface elevation of pavers 1/8 in. (3 mm) above adjacent drainage inlets, concrete collars or channels.
7. Place units hand tight against spacer bars. Adjust horizontal placement of laid pavers to align straight.
 - a. When installation is performed with mechanical equipment, use only unit pavers with spacer bars on sides of each unit.
8. Provide space between paver units of 1/32 in. (1 mm) wide to achieve straight bond lines.
9. Prevent joint (bond) lines from shifting more than $\pm 1/2$ in. (± 13 mm) over 50 ft. (15 m) from string lines.
10. Fill gaps between units or at edges of the paved area that exceed 3/8 inch (10 mm) with pieces cut to fit from full-size unit pavers.
11. Cut Concrete Pavers with motor-driven masonry saw equipment to provide clean, sharp, unchipped edges. Cut units to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible. Hammer cutting is not acceptable.
12. Prevent all traffic on installed Concrete Pavers until Joint Sand has been vibrated into joints. Keep skid steer and forklift equipment off newly laid Concrete Pavers that have not received initial compaction and Joint Sand material.
13. Vibrate Concrete Pavers into leveling course with a low-amplitude plate vibrator capable of a to 5000-lbf (22-kN) compaction force at 80 to 90 Hz. Perform at least three passes across paving with vibrator. Vibrate under the following conditions:
 - a. After edge pavers are installed and there is a completed surface or before surface is exposed to rain.
 - b. Compact installed Concrete Pavers to within 6 feet (2 meters) of the laying face before ending each day's work. Cover Concrete Pavers that have not been compacted and leveling course on which pavers have not been placed, with nonstaining plastic sheets to prevent Setting Bed Sand from becoming disturbed.



14. Protect face mix Concrete Paver surface from scuffing during compaction by utilizing a urethane pad.
15. Remove any cracked or structurally damaged Concrete Pavers and replace with new units prior to installing Joint Sand material.
16. Contractor shall install the white toned pavers in a straight line as shown on plans to delineate parking stalls (4" minimum width).

E. POLYMERIC JOINT SAND

1. Provide, spread and sweep dry Joint Sand into joints immediately after vibrating pavers into Setting Bed Sand course until full. Vibrate pavers and add Joint Sand material until joints are completely filled, then remove excess material. This will require at least 4 passes with a plate compactor.
2. Leave all work to within 3 ft. (1 m) of the laying face fully compacted with sand-filled joints at the completion of each day.
3. Remove excess Joint Sand broom clean from surface when installation is complete.

3.04 FIELD QUALITY CONTROL

- A. Verify final elevations for conformance to the drawings after sweeping the surface clean.
 1. Prevent final Concrete Paver finished grade elevations from deviating more than $\pm 3/8$ in. (± 10 mm) under a 10 ft (3 m) straightedge or indicated slope, for finished surface of paving.
- B. Lippage: No greater than $1/32$ in. (0.8 mm) difference in height between Concrete Pavers and adjacent paved surfaces.

3.05 REPAIRING, CLEANING AND SEALING

- A. Remove and replace unit pavers that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment and with no evidence of replacement.
- B. Cleaning: Remove excess dirt, debris, stains, grit, etc. from exposed paver surfaces; wash and scrub clean.
 1. Clean Concrete Pavers in accordance with the manufacturer's written recommendations.

3.06 PROTECTION

- A. Protect completed work from damage due to subsequent construction activity on the site.

Pavement removal, Portland cement concrete base course, and aggregate base course material (if required), will be paid for separately at the contract unit price for each item and no additional compensation will be allowed.

PAYMENT: This work shall be paid for at the contract unit price per SQUARE FOOT for BRICK PAVERS. The price shall include all labor, materials, and equipment necessary to complete the work described herein and as shown in the plans. No additional compensation will be allowed.

REMOVE AND RESET BRICK PAVERS

Description

This work shall consist of removal and reinstallation of the existing brick paver sidewalk at locations shown on the plans and as directed by the Engineer. This work includes the complete removal and storage of the



existing pavers, reinstallation of brick pavers, leveling and joint sand, compacted aggregate base, and Portland cement concrete base course as shown in the plan.

Reinstallation shall follow the plan details for unit pavers, specifications herein for BRICK PAVERS, and the Standard Specifications.

Method of Measurement and Basis of Payment

This work will be measured and paid for at the contract unit price per square foot for REMOVE AND RESET BRICK PAVERS, which shall include all materials, labor, and equipment necessary to complete the work as specified herein.

PARKING BLOCKS

Description

This work shall consist furnishing and installing six-foot length precast concrete curb stops at the locations shown on the plans and as directed by the Engineer. The parking blocks shall be anchored into pavement as directed by the Engineer.

The Contractor shall provide manufacturer's cut sheets to the City and Engineer for approval prior to ordering the parking stops.

Method of Measurement and Basis of Payment

This work will be measured and paid for at the contract unit price per each for PARKING BLOCKS, which shall include all materials, labor, transportation, and all equipment necessary to complete the work as specified herein.

CONCRETE CURB PLANTER WITH COPING

Description

This work shall consist of constructing concrete curb planters and furnishing and installing limestone coping to the planter curbs as specified herein, as shown on the plans and as directed by the Engineer.

Submittals

The Contractor shall provide the following submittals to the Engineer.

- A. Product Data for the coping, mortar, dowels, and color additive for mortar
- B. Shop Drawings showing the fabrication and installation for limestone coping. Include plans to show dowel spacing, coping segment lengths, and joint locations.
- C. Samples: Two 12" x 12" pieces of the coping stone showing the full range of color or tone variations to expect in the stone.
- D. Qualifications: Installer must submit evidence of successful installation history with comparable materials and design specified.

Materials

The concrete curb for the planters shall be per Article 606 of the Standard Specifications.

The colored mortar used to rub finish the exposed concrete curb shall be per the following:

- | | |
|---------------|--|
| Description: | Colored Mortar |
| Item (mortar) | (Portland Lime & Sand), Type N, Produce #PL-04, by Spec Mix or approved equal. |
| Item (color) | #2377/014 LITE BUFF color additive by Dynamic Color Solutions |



The limestone coping shall be per the following:

Description: Limestone Coping
Supplier: Tom Van Etten
Galloy & Van Etten Inc.
11756 S. Halsted St.
Chicago, IL 60628
773-928-4800
Manufacturer: Valders Stone & Marble, Inc
1-800-569-2156
www.valderstone.com
Item No: Limestone Cap
Size: 12" x various lengths" (4" thickness)
Texture: Honed on top, Rockfaced on all sides.
Color: Buff

Accessories:

- A. Anchors, Stainless steel, Type 304 of sizes and configurations required for support of stone and applicable superimposed loads.
- B. Bolts, Washers and Nuts: Stainless steel, Type 304 (as required)
- C. Sealant: Non-sag grade type caulk per manufacturer specifications. Color to be determined by City of Lockport. (as required)
- D. Cleaning Solution: Type which will not harm stone, joint materials or adjacent surfaces. Consult Stone Supplier for recommended types.

Installation (Concrete Curb with Color Mortar finish):

The 8" concrete curb shall be poured and installed per the Standard Specifications. Once concrete has cured, the Contractor shall apply the colored mortar rub finish to all exposed surfaces of the concrete and as directed by the Engineer. Mortar mixture rates and color additive rates shall be per manufacturer's specification.

Installation (Limestone Cap):

- A. General: Install limestone cap as indicated on the Drawings.
- B. Limestone cap to be set on cast in place concrete with ¾" mortar joint.
- C. Drill ½" dia x 6" stainless steel dowels into cast in place concrete and limestone coping as indicated on the Drawings.
- D. Limestone coping to have ¼" continuous dripline as indicated on the Drawings.
- E. Limestone coping to be trimmed to fit around existing PDOC Electric Pedestal Assemblies

Method of Measurement and Basis of Payment

This work will be measured and paid for at the contract unit price per foot for CONCRETE CURB PLANTER WITH COPING, which shall include all submittals, fabrication, materials, labor, transportation, and all equipment necessary to construct concrete curb planters and install the limestone coping as specified herein.



BUILDING DOWNSPOUT CONNECTIONS

Description

This work shall consist of installing storm sewer service lines for building downspouts to connect into the proposed storm sewer or underdrain system as shown on the plans and in the details. Blind WYE connections to underdrains or storm sewer, plugs, elbow connections, and all other items needed to perform this work will be considered incidental. BUILDING DOWNSPOUT CONNECTIONS will include installation of pipe from building face to storm sewer main or underdrain. This work shall be done in accordance with the applicable portions of Section 550 of the Standard Specifications.

Earth Excavation, Trench Backfill, and 6" PVC Pipe (ASTM D3034) will be paid for separately at the contract unit price for each item.

Basis of Payment

This work will be paid for at the contract unit price per each for BUILDING DOWNSPOUT CONNECTIONS.

CATCH BASIN, SPECIAL, WITH 2 TYPE 1 FRAMES AND LIDS

Description

This work shall consist of constructing catch basins with 2 frames and lids in accordance with Section 602 of the Standard Specifications, the details on the plans, and as specified herein.

Prior to ordering this drainage structure, the Contractor shall provide the Engineer with the Manufacturer's shop drawings and specifications for the catch basin as shown in the plan details, including dimensions, openings for storm sewer pipes as well as frames and lids. The specific frame and lid to be used shall also be included in the submittal.

Method of Measurement and Basis of Payment

This work will be measured and paid for at the contract unit price per each for CATCH BASIN, SPECIAL, WITH 2 TYPE 1 FRAMES AND LIDS, which shall include all submittals, materials, labor, transportation, earth excavation, backfill, and all equipment necessary to complete the work as specified herein.

SIGN POLE FOUNDATION, 36"

Description

This work shall consist of furnishing and installing an 36" diameter concrete foundation for the route 66 sign pole to be furnished by others at the location shown on the plans. All work shall be performed in accordance with section 836 of the Standard Specifications.

The Contractor shall submit a plan showing the anchor bolt pattern and anchor bolt length that is compatible with the Sign pole to be furnished by others. Contractor shall coordinate with the Engineer as needed.

Measurement and Basis of Payment

This work shall be paid for at the contract unit price per foot for SIGN POLE FOUNDATION, 36", which price shall be payment in full for all material, labor and any other items required to complete the work.



ROUTE 66 SIGN POLE, INSTALL ONLY

Description

This work consists of delivery and installation of the Route 66 Sign pole on a proposed concrete foundation at the location shown on the plans.

The sign shall be manufactured, ordered, and specified by others. The Contractor is responsible for coordinating a pickup location with the Engineer, transporting the pole to the site if required, and installing the pole.

See additional information regarding anchor bolt pattern and length in SIGN POLE FOUNDATION, 36”.

Method of Measurement and Basis of Payment

ROUTE 66 SIGN POLE, INSTALL ONLY shall be measured and paid at the contract unit price per each, which shall include all labor, materials, equipment, cleanup, and incidentals necessary to complete the work.

EV CHARGER REMOVAL AND REINSTALLATION WITH CONCRETE FOUNDATION

Description

This work shall consist of removal and reinstallation of the existing EV Charger, mounting hardware, and all other appurtenances as shown on the plans, directed by the Engineer, and in accordance with the manufacturer’s specifications. This work includes disconnection, removal and storage of the existing EV charger at the police station (1212 Farrell Road) and reinstallation of the charger unit, concrete foundation and ground mounting hardware, electrical connections, activation/commissioning, and all other necessary work.

The concrete foundation for ground mounting the charger shall be in accordance with the manufacturer’s specification, as shown on the plans, and as directed by the Engineer.

BLINK Charger Information

- A. Existing BLINK charger located at 1212 Farrell Road; **Series 7 ISO Unit – Serial Number: BAE720295.**
- B. Product manual with installation instructions can be downloaded here <https://blinkcharging.com/host-a-station/construction-resources-for-evse-installation#manuals>.

Commissioning

The Contractor shall be responsible for activating and commissioning the BLINK EV Charger. The “Blink Level 2 EVSE Electrician Information Form” must be filled out and submitted to onboarding@blinkcharging.com.

Method of Measurement and Basis of Payment

This work will be measured and paid for at the contract unit price per each for EV CHARGER REMOVAL AND REINSTALLATION WITH CONCRETE FOUNDATION, which shall include all materials, labor, and equipment necessary to complete the work as specified herein.

Electrical service, conduits, cables, and wiring to supply power to the charger shall be included in the cost of the associated items.



EV CHARGER CONTROLLER, BASE MOUNTED, 240 VOLT, 200 AMP

Description.

This work consists of furnishing and installing all necessary appurtenances to provide an EV Charger Controller at the location shown on the plans for the operation of EV Charging Station. All work shall be in accordance with Sections 825, 827, and 1068.01 of the Standard Specifications and as shown in the plan details.

The Contractor shall submit shop drawings and/or manufacturer's specifications prior to ordering the controller.

Method of Measurement and Basis of Payment.

This work will be paid for at the contract unit price per each for EV CHARGER CONTROLLER, BASE MOUNTED, 240 VOLT, 200 AMP, which shall include all materials, labor, and all equipment necessary to complete the work as specified herein.

HARDWOOD MULCH, 4"

Description

This work shall consist of furnishing and, transporting, and spreading an approved shredded hardwood mulch to the depth specified in areas as shown on the plans and as directed by the Engineer.

Hardwood bark mulch shall be in accordance with section 1081.06 of the Standard Specifications and shall be clean, finely shredded mixed-hardwood bark meeting the following requirements.

- A. Material shall be free of sticks, leaves, stones, dirt clods, and other debris
- B. Individual wood chips shall not exceed 2 inches in the largest dimension
- C. The Contractor shall coordinate color choice with the Engineer and supplier.

All finished mulch areas shall be left smooth and level to maintain uniform appearance. No mulch piles or debris of piles shall be onsite at any time.

Method of Measurement and Basis of Payment

This work will be measured and paid for at the contract unit price per square yard for HARDWOOD MULCH 4", which shall include all materials, labor, and all equipment necessary to complete the work as specified herein.

LIGHTING UNIT COMPLETE

Description.

This item shall consist of furnishing and installing a steel light pole complete with luminaire, galvanized anchor bolts, fuses, fuse holders, and all required hardware as specified herein and as shown on the plans. Catalog cuts must be supplied to and approved by the Engineer prior to installation.

Materials.

All items for the lighting unit shall be as shown on the drawings. No substitute products will be allowed.

Pole.

The pole shall be the as shown on the plans for each type, the catalog numbers shall be as follows:



- Lighting Unit Complete (Standard) - SSS 16 4C DM19AS DBLXD
- Lighting Unit Complete (Decorative) – AP20 – 14.5 FS1

Luminaire.

The pole shall be the as shown on the plans for each type, the catalog numbers shall be as follows:

- Lighting Unit Complete (Standard) – EAX1 – P2 – SWW2 – T4 – UVOLT – SRA – PER7 - BL
- Lighting Unit Complete (Decorative) – SMAL – (2)LEDV18C – 0.53A – 827 – KHJ5 - BPC

Luminaire Configuration.

The luminaires shall be configured as follows:

- Lighting Unit Complete (standard) – 1 fixture
- Lighting Unit Complete (standard double) – 2 fixtures at 180 degrees
- Lighting Unit Complete (decorative) – 1 fixture

Shipment.

The poles shall be carefully inspected at the factory prior to shipment to assure that the poles are complete and free of defects. When poles are stacked together, they shall be supported with suitable spacers or shall otherwise be protected from damage.

Installation.

The contractor shall install the lighting unit according to the plans and as recommended by the manufacturer. The light pole shall be set plumb on the foundation without the use of shims, grout, or any other leveling devices under the pole bases. The base cover of the pole shall be flush with the concrete foundation. Poles shall not be installed until luminaires are available for installation at the same time the poles are installed.

Any damage to the paint finish of the lighting unit after installation shall be touched up in the field by the contractor per the manufacturer's recommendations.

Certification and Guarantee.

The submittal information shall include a written certification of compliance with the contract requirements from the manufacturer. The certification shall identify the project, location, section number, and contract number as applicable and shall identify specifically the equipment covered by the certification. The certification shall be made on the manufacturer's corporate stationary and dated and signed by a responsible officer of the company with the signee's title listed.

Basis of Payment.

This work will be paid for at the contract unit price per each for LIGHTING UNIT COMPLETE (STANDARD); LIGHTING UNIT COMPLETE (STANDARD DOUBLE); LIGHTING UNIT COMPLETE (DECORATIVE) which shall include all labor, materials, and equipment to complete the installation as described herein.



SEAL COATING

Description

This work consists of furnishing all labor, materials, equipment, and incidentals necessary to clean the existing asphalt pavement and apply an asphalt emulsion seal coat. The seal coat shall be a mineral-filled asphalt emulsion applied in accordance with the manufacturer's recommendations. The pavement surface shall be clean, dry, and free of dirt, debris, vegetation, oil, grease, and other materials that may interfere with adhesion. Seal coat shall be uniformly applied in two coats, unless otherwise approved by the Engineer. The treated pavement shall remain closed to traffic until the seal coat has fully cured.

Method of Measurement and Basis of Payment

SEAL COATING shall be measured and paid at the contract unit price per square yard, which shall include all labor, materials, equipment, surface preparation, application, curing, protection, cleanup, and incidentals necessary to complete the work.



DISTRICT 1 SPECIAL PROVISIONS

GENERAL ELECTRICAL REQUIREMENTS

Effective: November 1, 2025

This special provision replaces Articles 801.01 – 801.07, 801.09 – 801-16 of the Standard Specifications.

Definition. Codes, standards, and industry specifications cited for electrical work shall be the latest adopted version thereof, unless indicated otherwise.

Materials shall include electrical equipment, fittings, devices, motors, appliances, fixtures, apparatus, all hardware and appurtenances, and the like, used as part of, or in connection with, electrical installation.

Standards of Installation. Materials shall be installed according to the manufacturer's recommendations, the NEC, OSHA, the NESC, and AASHTO's Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.

All like materials shall be from the same manufacturer. Listed and labeled materials shall be used whenever possible. The listing shall be according to UL or an approved equivalent.

Safety and Protection. Safety and protection requirements shall be as follows.

Safety. Electrical systems shall not be left in an exposed or otherwise hazardous condition. All electrical boxes, cabinets, pole handholes, etc. which contain wiring, either energized or non-energized, shall be closed or shall have covers in place and be locked when possible, during nonworking hours.

Protection. Electrical raceway or duct openings shall be capped or otherwise sealed from the entrance of water and dirt. Wiring shall be protected from mechanical injury.

Equipment Grounding Conductor. All electrical systems, materials, and appurtenances shall be grounded. Good ground continuity throughout the electrical system shall be assured, even though every detail of the requirements is not specified or shown. Electrical circuits shall have a continuous insulated equipment grounding conductor. When metallic conduit is used, it shall be bonded to the equipment grounding conductor, but shall not be used as the equipment grounding conductor.

Detector loop lead-in circuits, circuits under 50 volts, and runs of fiber optic cable will not require an equipment grounding conductor.

Where connections are made to painted surfaces, the paint shall be scraped to fully expose metal at the connection point. After the connection is completed, the paint system shall be repaired to the satisfaction of the Engineer.

Bonding of all boxes and other metallic enclosures throughout the wiring system to the equipment grounding conductor shall be made using a splice and pigtail connection. Mechanical connectors shall have a serrated washer at the contact surface.

All connections to structural steel or fencing shall be made with exothermic welds. Care shall be taken not to weaken load carrying members. Where connections are made to epoxy coated reinforcing steel, the



epoxy coating shall be sufficiently removed to facilitate a mechanical connection. The epoxy coating shall be repaired to the satisfaction of the Engineer. Where connections are made to insulated conductors, the connection shall be wrapped with at least four layers of electrical tape extended 6 in. (150 mm) onto the conductor insulation.

Submittals. At the preconstruction meeting, the Contractor shall submit a written listing of manufacturers for all major electrical and mechanical items. The list of manufacturers shall be binding, except by written request from the Contractor and approval by the Engineer. The request shall include acceptable reasons and documentation for the change.

Within 30 calendar days after contract execution, the Contractor shall submit, for approval, through the method as directed in the pre-construction meeting. Submittals for the materials for each individual pay item shall be complete in every respect. Submittals which include multiple pay items shall have all submittal material for each item or group of items covered by a particular specification, grouped together and the applicable pay item identified. Various submittals shall, when taken together, form a complete coordinated package. A partial submittal will be returned without review unless prior written permission is obtained from the Engineer.

Submittals shall be provided for all items used, temporary and permanent, for review and approval.

Equipment which will be owned and maintained by a local agency other than the State shall be reviewed and approved by that agency prior to submittal to the State. The submittal to the State shall include any comments made by the local agency.

Each PDF document must be a vector format PDF from the originating supplier or program and not scanned images.

The submittal must clearly identify the specific model number or catalog number of the item being proposed. Submittals must be the Manufacturers current published information. Out of date submittal material will be grounds for rejection.

The submittal shall be properly identified by Contractor, Pay Item Number, route, section, county, and contract number. Example:

Contractor: Contractor Name Pay Item: X0327607 Route: I-00 Section: 2013-xxx-xyz County: Cook Contract: 12Z34
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The Contractor shall have reviewed the submittal material and affixed the Contractor's stamp of approval, with date and signature, for each individual item prior to submittal. The Contractor's approval stamp shall be the first page of the submittal.

Illegible print, incompleteness, inaccuracy, or lack of coordination will be grounds for rejection.



Items from multiple disciplines shall not be combined on a single submittal and transmittal. Items for lighting, signals, surveillance, and CCTV must be in separate submittals since they may be reviewed by various personnel in various locations.



The Department may provide a list of pay items broken out by discipline upon request for a particular contract. In general, the disciplines are as follows:

Discipline	Typical Items
ITS	CCTV CCTV structures CCTV Cabinets Communication vaults Heavy Duty Handhole
Lighting	Breakaway devices Light poles Light tower Lighting cables Lighting controllers Luminaires Unit duct
Pump Station	All pump station equipment
Signing	Signing
Surveillance	Loop cables Detector equipment & associated structures Ramp metering & associated structures Wireless pavement sensors and associated supports Radar detection Cabinets for surveillance equipment Data Probing Handholes Dynamic Message Signs (DMS) Fiber optic cable Fiber optic duct Fiber Optic Splices Fiber Optic Termination Fiber Optic Utility Marker Network equipment
Traffic Signal	Controllers/Cabinets Handholes Illuminated signs Pedestrian Push Buttons Signal Cable Signal Detectors Signal Heads Signal Loop Cable Signal Modules Signal Structures
Local Roads Lighting	Same as lighting
Local Roads Traffic Signal	Same as traffic signal
Discipline with the predominate amount of work in contract or ask Engineer.	Raceways Electric cables Junction boxes



Discipline	Typical Items

The Engineer will review the submittals for conformance with the design concept of the project according to Article 105.04 and the following. The Engineer will stamp the drawings indicating their status as “Approved”, “Approved as Noted”, “Disapproved”, “Incomplete”, or “Information Only”. Since the Engineer’s review is for conformance with the design concept only, it shall be the Contractor’s responsibility to coordinate the various items into a working system as specified. The Contractor shall not be relieved from responsibility for errors or omissions in the shop, working, or layout drawings by the Engineer’s approval thereof. The Contractor shall still be in full compliance with contract and specification requirements.

All submitted items reviewed and marked “Disapproved”, “Incomplete” or “Approved as Noted” shall be resubmitted by the Contractor in their entirety, unless otherwise indicated within the submittal comments.

Work shall not begin until the Engineer has approved the submittal. Material installed prior to approval by the Engineer, will be subject to removal and replacement at no additional cost to the Department.

Certifications. When certifications are specified and are available prior to material manufacture, the certification shall be included in the submittal information. When specified and only available after manufacture, the submittal shall include a statement of intent to furnish certification. All certificates shall be complete with all appropriate test dates and data.

Authorized Project Delay. See Article 801.08

Maintenance transfer and Preconstruction Inspection:

General. Before performing any excavation, removal, or installation work (electrical or otherwise) at the site, the Contractor shall request a maintenance transfer and preconstruction site inspection, to be held in the presence of the Engineer and a representative of the party or parties responsible for maintenance of any electrical systems (lighting, ITS, Pump Station, Surveillance, and traffic control systems) which may be affected by the work. The request for the maintenance transfer and preconstruction inspection shall be made no less than fourteen (14) calendar days prior to the desired inspection date. The maintenance transfer and preconstruction inspection shall:

Establish the procedures for formal transfer of maintenance responsibility required for the construction period.

Establish the approximate location and operating condition of the electrical systems which may be affected by the work.

Marking of Existing Cable Systems. The party responsible for maintenance of any existing electrical systems at the project site will, at the Contractor's request, mark and/or stake, once per location, all underground cable routes owned or maintained by the State. A project may involve multiple "locations" where separated electrical systems are involved (i.e. different controllers). The markings shall be taken to have a horizontal tolerance of at least 1 foot (304.8 mm) to either side. The request for the cable locations and marking shall be made at the same time the request for the maintenance transfer and preconstruction inspection is made. The Contractor shall exercise extreme caution where existing buried cable runs are involved. The markings of existing systems are made strictly for assistance to the Contractor and this does not relieve the Contractor of



responsibility for the repair or replacement of any cable run damaged in the course of his work, as specified elsewhere herein. Note that the contractor shall be entitled to only one request for location marking of existing systems and that multiple requests may only be honored at the contractor's expense. No locates will be made after maintenance is transferred unless it is at the contractor's expense.

Condition of Existing Systems. The Contractor shall conduct an inventory of all existing electrical system equipment within the project limits, which may be affected by the work, making note of any parts which are found broken or missing, defective or malfunctioning. Megger and load readings shall be taken for all existing circuits which will remain in place or be modified. If a circuit is to be taken out in its entirety, then readings do not have to be taken. The inventory and test data shall be reviewed with and approved by the Engineer and a record of the inventory shall be submitted to the Engineer for the record. Without such a record, all systems transferred to the Contractor for maintenance during construction shall be returned at the end of construction in complete, fully operating condition.”

Maintenance and Responsibility During Construction.

Lighting Operation and Maintenance Responsibility. The scope of work shall include the assumption of responsibility for the continuing operation and maintenance of the existing, proposed, temporary, sign and navigation lighting, or other lighting systems and all appurtenances affected by the work as specified elsewhere herein. Maintenance of lighting systems is specified elsewhere and will be paid for separately.

The proposed lighting system must be operational prior to opening the roadway to traffic unless temporary lighting exists which is designed and installed to properly illuminate the roadway.

Electrical Infrastructure During Construction. The scope of work shall include locating and marking the proposed underground infrastructure installed in this contract.

Energy and Demand Charges. The payment of basic energy and demand charges by the electric utility for existing lighting, and temporary lighting, which remains in service will continue as a responsibility of the Owner, unless otherwise indicated. Unless otherwise indicated or required by the Engineer duplicate lighting systems (such as temporary lighting and proposed new lighting) shall not be operated simultaneously at the Owner's expense and lighting systems shall not be kept in operation during long daytime periods at the Owner's expense. Upon written authorization from the Engineer to place a proposed new lighting system in service, whether the system has passed final acceptance or not, (such as to allow temporary lighting to be removed), the Owner will accept responsibility for energy and demand charges for such lighting, effective the date of authorization. All other energy and demand payments to the utility shall be the responsibility of the Contractor until final acceptance.

Damage to Electrical Systems. Should damage occur to any existing electrical systems through the Contractor's operations, the Engineer will designate the repairs as emergency or non-emergency in nature.

Emergency repairs shall be made by the Contractor, or as determined by the Engineer, the Department, or its agent. Non-emergency repairs shall be performed by the Contractor within six working days following discovery or notification. All repairs shall be performed in an expeditious manner to assure all electrical systems are operational as soon as possible. The repairs shall be performed at no additional cost to the Department.

Lighting. An outage will be considered an emergency when three or more lights on a circuit or three successive lights are not operational. Knocked down materials, which result in a danger to the motoring public, will be considered an emergency repair.



Temporary aerial multi-conductor cable, with grounded messenger cable, will be permitted if it does not interfere with traffic or other operations, and if the Engineer determines it does not require unacceptable modification to existing installations.

Marking Proposed Locations. The Contractor shall mark or stake the proposed locations of all poles, cabinets, junction boxes, pull boxes, handholes, cable routes, pavement crossings, and other items pertinent to the work. A proposed location inspection by the Engineer shall be requested prior to any excavation, construction, or installation work after all proposed installation locations are marked. Any work installed without location approval is subject to corrective action at no additional cost to the Department.

Inspection of electrical work. Inspection of electrical work shall be according to Article 105.12 and the following.

Before any splice, tap, or electrical connection is covered in handholes, junction boxes, light poles, or other enclosures, the Contractor shall notify and make available such wiring for the Engineer's inspection.

Testing.

General. Before final inspection, the electrical work shall be tested. Tests may be made progressively as parts of the work are completed or may be made when the work is complete. Tests shall be made in the presence of the Engineer. Items which fail to test satisfactorily shall be repaired or replaced. Tests shall include checks of control operation, system voltages, cable insulation, and ground resistance and continuity.

The forms for recording test readings will be available from the Engineer in electronic format. The Contractor shall provide the Engineer with a written report of all test data including the following:

- Voltage Tests
- Amperage Tests
- Insulation Resistance Tests
- Continuity tests
- Resistance of Grounding Electrodes
- Detector Loop Tests

Lighting systems. The following tests shall be made.

- (1) Voltage Measurements. Voltages in the cabinet from phase to phase and phase to neutral, at no load and at full load, shall be measured and recorded. Voltage readings at the last termination of each circuit shall be measured and recorded.
- (2) Insulation Resistance. Insulation resistance to ground of each circuit at the cabinet shall be measured and recorded with all loads disconnected. Prior to performance of the insulation resistance test, the Contractor shall remove all fuses within all light pole bases on a circuit to segregate the luminaire loads.

On tests of new cable runs, the readings shall exceed 50 megohms for phase and neutral conductors with a connected load over 20A and shall exceed 100 megohms for conductors with a connected load of 20A or less.

On tests of cable runs which include cables which were existing in service prior to this contract, the resistance readings shall be the same or better than the readings recorded at the maintenance



- transfer at the beginning of the contract. Measurements shall be taken with a megohm meter approved by the Engineer.
- (3) Loads. The current of each circuit, phase main, and neutral shall be measured and recorded. The Engineer may direct reasonable circuit rearrangement. The current readings shall be within ten percent of the connected load based on material ratings.
 - (4) Ground Continuity. Resistance of the system ground as taken from the farthest extension of each circuit run from the controller (i.e. check of equipment ground continuity for each circuit) shall be measured and recorded. Readings shall not exceed 2.0 ohms, regardless of the length of the circuit.
 - (5) Resistance of Grounding Electrodes. Resistance to ground of all grounding electrodes shall be measured and recorded. Measurements shall be made with a ground tester during dry soil conditions as approved by the Engineer. Resistance to ground shall not exceed 10 ohms.

Surveillance. The following tests shall be made in addition to the lighting system test above.

- (1) Detector Loops. Before and after permanently securing the loop in the pavement, the resistance, inductance, resistance to ground, and quality factor for each loop and lead-in circuit shall be tested.
- (2) The loop and lead-in circuit shall have an inductance between 20 and 2500 microhenries.
- (3) The resistance to ground shall be a minimum of 50 megohms under any conditions of weather or moisture.
- (4) The continuity test of the loop and loop lead-in shall not have a resistance greater than two (2) ohms
- (5) The quality factor (Q) shall be 5 or greater.

Loops which fail to test satisfactorily shall be repaired or replaced.

Telecommunication Cable. Once the telecommunication cable is installed complete with all cable terminations complete the Contractor shall request an end-to-end test. The Contractor shall request the end-to-end test at least 7 days in advance to the TSC Engineer. Any lane closures and/or any other safety measures that need to be taken shall be provided for by the Contractor and shall be considered incidental to the cost of this item. The type of test performed shall be an end-to-end test with Halcyon type equipment transmitting and receiving at each end of the cable. Each pair shall be tested, and the results shall be recorded and submitted to the Engineer. If any results don't fall within the requirements set forth in (REA) PE-39, the Contractor shall correct and re-test that cable pair. Traffic Systems will tolerate only one pair out of every 100 pair of cable that doesn't meet or exceed specifications set forth in (REA) PE-39.

Wireless In-Pavement Detection Systems shall be tested in accordance with the approved testing procedures provided in the catalog cut submittal.

Fiber Optic Systems.



The Contractor shall submit detailed test procedures for approval by the Engineer. All fibers (terminated and un-terminated) shall be tested bi-directionally at both 1310 nm and 1550 nm with both an Optical Time Domain Reflectometer (OTDR) and a power meter with an optical source. For testing, intermediate breakout fibers may be concatenated and tested end-to-end. Any discrepancies between the measured results and these specifications will be resolved to the satisfaction of the Engineer.

Fibers which are not to be terminated shall be tested with a temporary fusion spliced pigtail fiber. **Mechanical splice or bare fiber adapters are not acceptable.**

The Contractor shall provide the date, time and location of any tests required by this specification to the Engineer at least 5 working (7 calendar) days before performing the test. Included with the notification shall be a record drawing of the installed fiber optic cable system. The drawings shall indicate actual installed routing of the cable, the locations of splices, and locations of cable slack with slack quantities identified.

Upon completion of the cable installation, splicing, and termination, the Contractor shall test all fibers for continuity, events above 0.1 dB, and total attenuation of the cable. The test procedure shall be as follows:

A Certified Technician utilizing an Optical Time Domain Reflectometer (OTDR) and Optical Source/Power Meter shall conduct the installation test. The test equipment used shall have been calibrated within the last two years. Documentation shall be provided. The Technician is directed to conduct the test using the standard operating procedures defined by the manufacturer of the test equipment. All fibers installed shall be tested in both directions.

A fiber ring or fiber box shall be used to connect the OTDR to the fiber optic cable under test at both the launch and receive ends. The tests shall be conducted at 1310 and 1550 nm for all fibers.

All testing shall be witnessed by the IDOT Engineer, and a copy of the test results (CD ROM or USB Drive) shall be submitted on the same day of the test. Hardcopies shall be submitted as described herein with copies on CD ROM or USB Drive.

At the completion of the test, the Contractor shall provide copies of the documentation of the test results to the Project Engineer. The test documentation shall be submitted as two bound copies and three CD ROM, or USB drive copies, and shall include the following:

Cable & Fiber Identification:

- | | |
|--|--|
| • Cable ID | • Operator Name |
| • Cable Location - beginning and end point | • Date & Time |
| • Fiber ID, including tube and fiber color | • Setup Parameters |
| • Wavelength | • Range (OTDR) |
| • Pulse width (OTDR) | • Scale (OTDR) |
| • Refractory index (OTDR) | • Setup Option chosen to pass OTDR "dead zone" |

Test Results shall include:



- OTDR Test results
- Total Fiber Trace
- Splice Loss/Gain
- Events > 0.10 dB
- Measured Length (Cable Marking)
- Total Length (OTDR)
- Optical Source/Power Meter Total Attenuation (dB/km)

Sample Power Meter Tabulation:

Power Meter Measurements (dB)									
Location		Fiber No.	Cable Length (km)	A to B		B to A		Bidirectional Average	
A	B			1310 nm	1550 nm	1310 nm	1550 nm	1310 nm	1550 nm
		1							
		2							
Maximum Loss									
Minimum Loss									

The OTDR test results file format must be Bellcore/Telcordia compliant according to GR-196-CORE Issue 2, OTDR Data Standard, GR 196, Revision 1.0, GR 196, Revision 1.1, GR 196, Revision 2.0 (SR-4731) in a “.SOR” file format. A copy of the test equipment manufacture’s software to read the test files, OTDR and power, shall be provided to the Department. These results shall also be provided in tabular form, see sample below:

Sample OTDR Summary				
Cable Designation:	<i>TCF-IK-03</i>	OTDR Location:	<i>Pump Sta. 67</i>	Date: <i>1/1/00</i>
Fiber Number	Event Type	Event Location	Event Loss (dB)	
			1310 nm	1550 nm
<i>1</i>	<i>Splice</i>	<i>23500 Ft.</i>	<i>.082</i>	<i>.078</i>
<i>1</i>	<i>Splice</i>	<i>29000 Ft.</i>	<i>.075</i>	<i>.063</i>
<i>2</i>	<i>Splice</i>	<i>29000 Ft.</i>	<i>.091</i>	<i>.082</i>
<i>3</i>	<i>Splice</i>	<i>26000 Ft.</i>	<i>.072</i>	<i>.061</i>
<i>3</i>	<i>Bend</i>	<i>27000 Ft.</i>	<i>.010</i>	<i>.009</i>

The following shall be the criteria for the acceptance of the cable:

Upon completing all splicing operations for a cable span, the Contractor shall measure the mean bi-directional loss at each splice using an Optical Time Domain Reflectometer.

When splices are made between identical cables (same manufacturer and cable type) the average optical loss of each splice shall not exceed 0.10 dB. The average is determined by measuring the splice loss in both directions with an OTDR, adding the two readings, and dividing by two. Testing



should be performed for both the 1310 and 1550 nm wavelengths. No individual splice loss measured in a single direction shall exceed 0.15 dB.

When splices are made between cables containing fibers of different mode field diameters, the average optical loss of each splice shall not exceed 0.50 dB. The average is determined by measuring the splice loss in both directions with an OTDR, adding the two readings, and dividing by two. Testing should be performed for both the 1310 and 1550 nm wavelengths. No individual splice loss measured in a single direction shall exceed 0.6 dB.

The Contractor shall measure the end-to-end attenuation of each fiber, from connector to connector, using an optical power meter and source. This loss shall be measured at from both directions and shall not exceed 0.5 dB per installed kilometer of single mode cable. Measurements shall be made at both 1300 and 1550 nm for single mode cable.

For multimode cable, power meter measurements shall be made at 850 and 1300 nm. The end-to-end attenuation shall not exceed 3.8 dB/installed kilometers at 850nm or 1.8 dB per installed kilometer at 1300nm for multimode fibers.

If the total loss exceeds these specifications, the Contractor shall replace or repair the cable run at the no additional cost to the state, both labor and materials. Elevated attenuation due to exceeding the pulling tension, or any other installation operation, during installation shall require the replacement of the cable run at no additional cost to the State, including labor and materials.

All test results shall be furnished to the Engineer seven working days before the date the inspection is scheduled.

Contract Guarantee. The Contractor shall provide a written guarantee for all electrical work provided under the contract for a period of six months after the date of acceptance with the following warranties and guarantees.

- (a) The manufacturer's standard written warranty for each piece of electrical material or apparatus furnished under the contract. The warranty for light emitting diode (LED) modules, including the maintained minimum luminance, shall cover a minimum of 120 months from the date of delivery.
- (b) The Contractor's written guarantee that, for a period of six months after the date of final acceptance of the work, all necessary repairs to or replacement of said warranted material or apparatus for reasons not proven to have been caused by negligence on the part of the user or acts of a third party shall be made by the Contractor at no additional cost to the Department.
- (c) The Contractor's written guarantee for satisfactory operation of all electrical systems furnished and constructed under the contract for a period of six months after final acceptance of the work.

The warranty for an uninterruptable power supply (UPS) shall cover a minimum of two years from date the equipment is placed in operation; however, the batteries of the UPS shall be warranted for full replacement for a minimum of five years.

Record Drawings. Alterations and additions to the electrical installation made during the execution of the work shall be made on the PDF copy of the as-Let documents using a PDF editor. Hand drawn notations or markups and scanned plans are not acceptable. These drawings shall be updated daily and shall be available for inspection by the Engineer during the work. The record drawings shall include the following:



- Cover Sheet
- The Electrical Maintenance Contract Management System (EMCMS) location designation, i.e. “L”, “TS”, “S”, “A” number.
- Summary of Quantities, electrical items only
- Legends, Schedules, and Notes
- Plan Sheets
- Final fiber assignment tables
- Pertinent Details
- Single Line Diagrams; electrical, communications, surveillance and fiber optic.
- Other useful information useful to locate and maintain the systems.

Any modifications to the details shall be indicated. Final quantities used shall be indicated on the Summary of Quantities. **Foundation depths used shall also be listed.**

As part of the record drawings, the Contractor shall inventory all materials, new or existing, on the project and record information on inventory sheets provided by the Engineer.

The inventory shall include:

- Location of Equipment, including rack, chassis, slot as applicable.
- Designation of Equipment
- Equipment manufacturer
- Equipment model number
- Equipment Version Number
- Equipment Configuration
 - Addressing, IP or other
 - Settings, hardware or programming
- Equipment Serial Number

The following electronic inventory forms are available from the Engineer:

- Lighting Controller Inventory
- Lighting Inventory
- Light Tower Inspection Checklist
- ITS Location Inventory

The information shall be entered in the forms; handwritten entries will not be acceptable; except for signatures. Electronic file shall also be included in the documentation.

When the work is complete, and seven days before the request for a final inspection, the set of contract drawings, marked “**RECORD DRAWINGS**”, shall be submitted to the Engineer for review and approval and shall be stamped with the date and the signature of the Contractor’s supervising Engineer or Electrician. The record drawings shall be submitted in PDF format via a mutually agreed to electronic format for review and approval.

In addition to the record drawings, PDF copies of the final catalog cuts which have been Approved and Approved as Noted with applicable follow-up shall be submitted along with the record drawings. **The PDF files shall clearly indicate either by filename or PDF table of contents (bookmarks) the respective pay item number.** Specific part or model numbers of items which have been selected shall be clearly visible.



If the Electric Service is new or modified, documentation as required in the Electric Utility Service Installation and Connection shall be submitted.

During the Final Inspection, the Contractor shall provide three sets of electronically produced drawings in a moisture proof pouch to be kept on the inside door of the controller cabinet or other location approved by the Engineer. These drawings shall show the final as-built circuit orientation(s) of the project in the form of a single line diagram with all equipment designations and clearly identified.

Final documentation shall be submitted as a complete submittal package, i.e. record drawings, test results, inventory, etc. shall be submitted at the same time. Partial piecemeal submittals will be rejected without review.

The identical material shall also be submitted in the same manner as the catalog cut submittals utilizing the following final documentation pay item numbers:

Pay Code	Description	Discipline
FDLRD000	Record Drawings - Lighting	Lighting
FDSRD000	Record Drawings - Surveillance	Surveillance
FDTRD000	Record Drawings - Traffic Signal	Traffic Signal
FDIRD000	Record Drawings - ITS	ITS
FDLCC000	Catalog Cuts - Lighting	Lighting
FDSCC000	Catalog Cuts – Surveillance	Surveillance
FDTCC000	Catalog Cuts – Traffic Signal	Traffic Signal
FDICC000	Catalog Cuts - ITS	ITS
FDLWL000	Warranty - Lighting	Lighting
FDSWL000	Warranty - Surveillance	Surveillance
FDTWL000	Warranty - Traffic Signal	Traffic Signal
FDIWL000	Warranty - ITS	ITS
FDLTR000	Test Results - Lighting	Lighting
FDSTR000	Test Results - Surveillance	Surveillance
FDTTR000	Test Results - Traffic Signal	Traffic Signal
FDITR000	Test Results - ITS	ITS
FDLINV00	Inventory - Lighting	Lighting
FDSINV00	Inventory - Surveillance	Surveillance
FDTINV00	Inventory - Traffic Signal	Traffic Signal
FDIINV00	Inventory - ITS	ITS
FDLGPS00	GPS - Lighting	Lighting
FDSGPS00	GPS - Surveillance	Surveillance
FDTGPS00	GPS - Traffic Signal	Traffic Signal
FDIGPS00	GPS - ITS	ITS
FDLES00	Electric Service - Lighting	Lighting
FDSES00	Electric Service - Surveillance	Surveillance
FDTES00	Electric Service - Traffic Signal	Traffic Signal



Pay Code	Description	Discipline
FDIES00	Electric Service - ITS	ITS

Record Drawings shall include Marked up plans, controller info, Electric Service Info, Equipment Settings, Manuals, Wiring Diagrams for each discipline.

Test results shall be all electrical test results, fiber optic OTDR, and Fiber Optic power meter as applicable for each discipline.

GPS Documentation. In addition to the specified record drawings, the Contactor shall record GPS coordinates of the following electrical components being installed, modified or being affected in other ways by this contract:

- All light poles and light towers.
- Handholes and vaults.
- Junction Boxes
- Conduit roadway crossings.
- Controllers.
- Control Buildings.
- Structures with electrical connections, i.e. DMS, lighted signs.
- Electric Service locations.
- CCTV Camera installations.
- Roadway Surveillance installations.
- Fiber Optic Splice Locations.
- Fiber Optic Cables. Coordinates shall be recorded along each fiber optic cable route every 200 feet.
- Fiber Optic Utility Markers
- All fiber optic slack locations shall be identified with quantity of slack cable included. When sequential cable markings are available, those markings shall be documented as cable marking into enclosure and marking out of enclosure.
- All wireless in-pavement vehicle detectors

Datum to be used shall be North American 1983.

Data shall be provided electronically. The electronic format shall be compatible with MS Excel. **Latitude and Longitude shall be in decimal degrees with a minimum of 6 decimal places.** Each coordinate shall have the following information:

1. District
2. Description of item
3. Designation
4. Use
5. Approximate station
6. Contract Number
7. Date
8. Owner
9. Latitude
10. Longitude



11. Comments

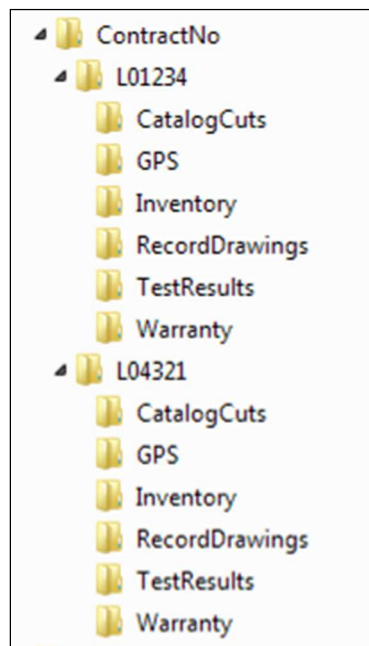
A spreadsheet template will be available from the Engineer for use by the Contractor.

Accuracy. Data collected is to be mapping grade. A handheld mapping grade GPS device shall be used for the data collection. The receiver shall support differential correction, and data shall have minimum 5 meter accuracy after post processing.

GPS receivers integrated into cellular communication devices, recreational and automotive GPS devices are not acceptable.

The GPS shall be the product of an established major GPS manufacturer having been in the business for a minimum of 6 years.”

The documents shall be organized by the Electrical Maintenance Contract Management System (EMCMS) location designation. If multiple EMCMS locations are within the contract, separate folders shall be utilized for each location as follows:



Extraneous information not pertaining to the specific EMCMS location shall not be included in that particular folder and sub-folder.

The inspection will not be made until after the delivery of acceptable record drawings, specified certifications, and the required guarantees.

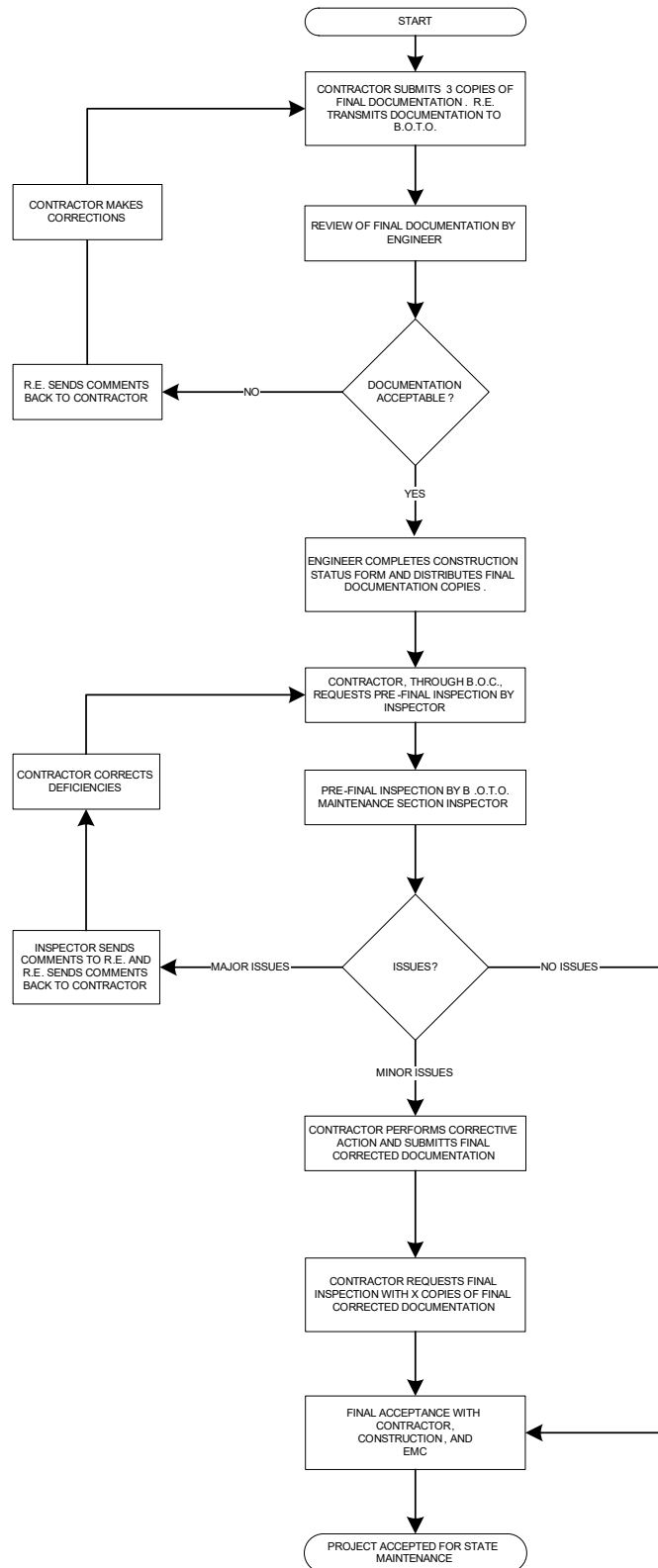
The Final Acceptance Documentation Checklist shall be completed and is contained elsewhere herein.

Acceptance. Acceptance of electrical work will be given at the time when the Department assumes the responsibility to protect and maintain the work according to Article 107.30 or at the time of final inspection.



When the electrical work is complete, tested, and fully operational, the Contractor shall schedule an inspection for acceptance with the Engineer no less than seven working days prior to the desired inspection date. The Contractor shall furnish the necessary labor and equipment to make the inspection.

A written record of the test readings taken by the Contractor according to Article 801.13 shall be furnished to the Engineer seven working days before the date the inspection is scheduled. Inspection will not be made until after the delivery of acceptable record drawings, specified certifications, and the required guarantees.





Final Acceptance Documentation Checklist

LOCATION	
Route	Common Name
Limits	Section
Contract #	County
Controller Designation(s)	EMC Database Location Number(s)

ITEM	Contractor (Verify)	Resident Engineer (Verify)
Record Drawings		
-Three hardcopies (for cabinets)	☐	☐
-PDFs as required elsewhere	☐	☐
Field Inspection Tests		
-Voltage	☐	☐
-Amperage	☐	☐
-Cable Insulation Resistance	☐	☐
-Continuity	☐	☐
-Controller Ground Rod Resistance	☐	☐
(PDFs as required)		
GPS Coordinates		
-Excel file	☐	☐
(Check Special Provisions, Excel file required.)		
Job Warranty Letter		
(PDFs as required)	☐	☐
Catalog Cut Submittals		
-Approved & Approved as Noted	☐	☐
(PDFs as required)		
Lighting Inventory Form		
(PDFs as required)	☐	☐
Lighting Controller Inventory Form		
(PDFs as required)	☐	☐
Electric Service Documentation		
(PDFs as required)	☐	☐
Light Tower Inspection Form		
(If applicable, PDFs as required)	☐	☐



PDFs as required shall be submitted for all items above.

General Notes:

Record Drawings – The record drawings should contain contract cover sheet, summary of quantities showing all lighting pay item sheets, proposed lighting plans and lighting detail sheets. Submit hardcopies shall be 11” x 17” size. Temporary lighting plans and removal lighting plans should not be part of the set.

Field Inspection Tests – Testing should be done for proposed cables. Testing shall be per standard specifications. Forms shall be neatly filled out.

GPS Coordinates – Check special provisions “General Electrical Requirements”. Submit electronic “EXCEL” file. Coordinates in Latitude and Longitude, decimal degrees.

Job Warranty Letter – See standard specifications.

Cutsheet Submittal – See special provisions “General Electrical Requirements”. Scan Approved and Approved as Noted cutsheets.

Lighting Inventory Form – Inventory form should include only proposed light poles, proposed light towers, proposed combination (traffic/light pole) lighting and proposed underpass luminaires.

Lighting Controller Inventory Form – Form should be filled out for only proposed lighting controllers.

Light Tower Safety Inspection Form – Form should be filled out for each proposed light tower.

WIRE AND CABLE

Effective: January 1, 2012

Add the following to the first paragraph of Article 1066.02(a):

“The cable shall be rated at a minimum of 90°C dry and 75°C wet and shall be suitable for installation in wet and dry locations, and shall be resistant to oils and chemicals.”

Revise the Aerial Electric Cable Properties table of Article 1066.03(a)(3) to read:

Aerial Electric Cable Properties

Phase Conductor			Messenger wire		
Size AWG	Stranding	Average Insulation Thickness		Minimum Size AWG	Stranding
		mm	mils		
6	7	1.1	(45)	6	6/1
4	7	1.1	(45)	4	6/1
2	7	1.1	(45)	2	6/1
1/0	19	1.5	(60)	1/0	6/1
2/0	19	1.5	(60)	2/0	6/1



3/0	19	1.5	(60)	3/0	6/1
4/0	19	1.5	(60)	4/0	6/1

Add the following to Article 1066.03(b) of the Standard Specifications:

“Cable sized No. 2 AWG and smaller shall be U.L. listed Type RHH/RHW and may be Type RHH/RHW/USE. Cable sized larger than No. 2 AWG shall be U.L. listed Type RHH/RHW/USE.”

Revise Article 1066.04 to read:

“Aerial Cable Assembly. The aerial cable shall be an assembly of insulated aluminum conductors according to Section 1066.02 and 1066.03. Unless otherwise indicated, the cable assembly shall be composed of three insulated conductors and a steel reinforced bare aluminum conductor (ACSR) to be used as the ground conductor. Unless otherwise indicated, the code word designation of this cable assembly is “Palomino”. The steel reinforced aluminum conductor shall conform to ASTM B-232. The cable shall be assembled according to ANSI/ICEA S-76-474.”

Revise the second paragraph of Article 1066.05 to read:

“The tape shall have reinforced metallic detection capabilities consisting of a woven reinforced polyethylene tape with a metallic core or backing.”

UNIT DUCT

Effective: January 1, 2012

Revise the first paragraph of Article 810.04 to read:

“The unit duct shall be installed at a minimum depth of 30-inches (760 mm) unless otherwise directed by the Engineer.”

Revise Article 1088.01(c) to read:

“(c) Coilable Nonmetallic Conduit.

General:

The duct shall be a plastic duct which is intended for underground use and which can be manufactured and coiled or reeled in continuous transportable lengths and uncoiled for further processing and/or installation without adversely affecting its properties of performance. The duct shall be a plastic duct which is intended for underground use and can be manufactured and coiled or reeled in continuous transportable lengths and uncoiled for further processing and/or installation without adversely affecting its properties of performance.



The duct shall be made of high density polyethylene which shall meet the requirements of ASTM D 2447, for schedule 40. The duct shall be composed of black high density polyethylene meeting the requirements of ASTM D 3350, Class C, Grade P33. The wall thickness shall be in accordance with Table 2 for ASTM D 2447.

The duct shall be UL Listed per 651-B for continuous length HDPE coiled conduit. The duct shall also comply with NEC Article 354.100 and 354.120.

Submittal information shall demonstrate compliance with the details of these requirements.

Dimensions:

Duct dimensions shall conform to the standards listed in ASTM D2447. Submittal information shall demonstrate compliance with these requirements.

Nominal Size		Nominal I.D.		Nominal O.D.		Minimum Wall	
mm	in	mm	in	mm	in	mm	in
31.75	1.25	35.05	1.380	42.16	1.660	3.556 +0.51	0.140 +0.020
38.1	1.50	40.89	1.610	48.26	1.900	3.683 +0.51	0.145 +0.020

Nominal Size		Pulled Tensile	
mm	in	N	lbs
31.75	1.25	3322	747
38.1	1.50	3972	893

Marking:

As specified in NEMA Standard Publication No. TC-7, the duct shall be clearly and durably marked at least every 3.05 meters (10 feet) with the material designation (HDPE for high density polyethylene), nominal size of the duct and the name and/or trademark of the manufacturer.

Performance Tests:

Polyethylene Duct testing procedures and test results shall meet the requirements of UL 651. Certified copies of the test report shall be submitted to the Engineer prior to the installation of the duct. Duct crush test results shall meet or exceed the following requirements:

Duct Diameter		Min. force required to deform sample 50%	
mm	in	N	lbs
35	1.25	4937	1110
41	1.5	4559	1025



MAINTENANCE OF ROADWAYS

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.



BDE SPECIAL PROVISIONS

CEMENT, FINELY DIVIDED MINERALS, ADMIXTURES, CONCRETE, AND MORTAR (BDE)

Effective: January 1, 2025

Revised: January 1, 2026

Revise the first paragraph of Article 285.05 of the Standard Specifications to read:

“ **285.05 Fabric Formed Concrete Revetment Mat.** The grout shall consist of a mixture of cement, fine aggregate, and water so proportioned and mixed as to provide a pumpable slurry. Fly ash or ground granulated blast furnace (GGBF) slag, and concrete admixtures may be used at the option of the Contractor. The grout shall have an air content of not less than 6.0 percent nor more than 9.0 percent of the volume of the grout. The mix shall obtain a compressive strength of 2500 psi (17,000 kPa) at 28 days according to Article 1020.09.”

Revise Article 302.02 of the Standard Specifications to read:

“ **302.02 Materials.** Materials shall be according to the following.

	Item	Article/Section
(a)	Cement	1001
(b)	Water	1002
(c)	Hydrated Lime	1012.01
(d)	By-Product, Hydrated Lime	1012.02
(e)	By-Product, Non-Hydrated Lime	1012.03
(f)	Lime Slurry	1012.04
(g)	Fly Ash	1010
(h)	Soil for Soil Modification (Note 1)	1009.01
(i)	Bituminous Materials (Note 2)	1032

Note 1. This soil requirement only applies when modifying with lime (slurry or dry).

Note 2. The bituminous materials used for curing shall be emulsified asphalt RS-2, CRS-2, HFE 90, or HFE 150; rapid curing liquid asphalt RC-70; or medium curing liquid asphalt MC-70 or MC-250.”

Revise Article 312.07(c) of the Standard Specifications to read:

“ (c).....Cement
..... 1001”

Add Article 312.07(i) of the Standard Specifications to read:

“ (i)Ground Granulated Blast Furnace (GGBF) Slag
..... 1010”

Revise the first paragraph of Article 312.09 of the Standard Specifications to read:



“ **312.09 Proportioning and Mix Design.** At least 60 days prior to start of placing CAM II, the Contractor shall submit samples of materials to be used in the work for proportioning and testing. The mixture shall contain a minimum of 200 lb (120 kg) of cement per cubic yard (cubic meter). Cement may be replaced with fly ash or ground granulated blast furnace (GGBF) slag according to Article 1020.05(c)(1) or 1020.05(c)(2), respectively, however the minimum cement content in the mixture shall be 170 lbs/cu yd (101 kg/cu m). Blends of coarse and fine aggregates will be permitted, provided the volume of fine aggregate does not exceed the volume of coarse aggregate. The Engineer will determine the proportions of materials for the mixture according to the “Portland Cement Concrete Level III Technician Course” manual. However, the Contractor may substitute their own mix design. Article 1020.05(a) shall apply, and a Level III PCC Technician shall develop the mix design.”

Revise Article 352.02 of the Standard Specifications to read:

“ **352.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Cement (Note 1)	1001
(b) Soil for Soil-Cement Base Course	1009.03
(c) Water	1002
(d) Bituminous Materials (Note 2)	1032

Note 1. Bulk cement may be used for the traveling mixing plant method if the equipment for handling, weighing, and spreading the cement is approved by the Engineer.

Note 2. The bituminous materials used for curing shall be emulsified asphalt RS-2, CRS-2, HFE 90, or HFE 150; rapid curing liquid asphalt RC-70; or medium curing liquid asphalt MC-70 or MC-250.”

Revise Article 404.02 of the Standard Specifications to read:

“ **404.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Cement	1001
(b) Water	1002
(c) Fine Aggregate	1003.08
(d) Bituminous Material (Tack Coat)	1032.06
(e) Emulsified Asphalts (Note 1) (Note 2)	1032.06
(f) Fiber Modified Joint Sealer	1050.05
(g) Additives (Note 3)	

Note 1. When used for slurry seal, the emulsified asphalt shall be CQS-1h according to Article 1032.06(b).

Note 2. When used for micro-surfacing, the emulsified asphalt shall be CQS-1hP according to Article 1032.06(e).

Note 3. Additives may be added to the emulsion mix or any of the component materials to provide the control of the quick-traffic properties. They shall be included as part of the mix design and be compatible with the other components of the mix.



Revise the last sentence of the fourth paragraph of Article 404.08 of the Standard Specifications to read:

“When approved by the Engineer, the sealant may be dusted with fine sand, cement, or mineral filler to prevent tracking.”

Revise Note 2 of Article 516.02 of the Standard Specifications to read:

“ Note 2. The sand-cement grout mix shall be according to Section 1020 and shall be a 1:1 blend of sand and cement comprised of a Type I, IL, or II cement at 185 lb/cu yd (110 kg/cu m). The maximum water cement ratio shall be sufficient to provide a flowable mixture with a typical slump of 10 in. (250 mm).”

Revise Note 2 of Article 543.02 of the Standard Specifications to read:

“ Note 2. The grout mixture shall be 6.50 hundredweight/cu yd (385 kg/cu m) of cement plus fine aggregate and water. Fly ash or ground granulated blast furnace (GGBF) slag may replace a maximum of 5.25 hundredweight/cu yd (310 kg/cu m) of the cement. The water/cement ratio, according to Article 1020.06, shall not exceed 0.60. An air-entraining admixture shall be used to produce an air content, according to Article 1020.08, of not less than 6.0 percent nor more than 9.0 percent of the volume of the grout. The Contractor shall have the option to use a water-reducing or high range water-reducing admixture.”

Revise Article 583.01 of the Standard Specifications to read:

“ **583.01 Description.** This work shall consist of placing cement mortar along precast, prestressed concrete bridge deck beams as required for fairing out any unevenness between adjacent deck beams prior to placing of waterproofing membrane and surfacing.”

Revise Article 583.02(a) of the Standard Specifications to read:

“ (a).....Cement
..... 1001”

Revise the first paragraph of Article 583.03 of the Standard Specifications to read:

“ **583.03 General.** This work shall only be performed when the air temperature is 45 °F (7 °C) and rising. The mixture for cement mortar shall consist of three parts sand to one part cement by volume. The amount of water shall be no more than that necessary to produce a workable, plastic mortar.”

Revise Article 606.02(h) of the Standard Specifications to read:

“ (h)Fibers (Note 1)
..... 1014”

Revise Note 1 in Article 606.02(h) of the Standard Specifications to read:

“ Note 1. Fibers, when required, shall only be used in the concrete mixture for slipform applications.”

Revise the third paragraph in Article 606.10 of the Standard Specifications to read:



“ Welded wire fabric shall be 6 x 6 in. (150 x 150 mm) mesh, #4 gauge (5.74 mm), 58 lb (26 kg) per 100 sq ft (9 sq m).”

Revise Article 1001.01(d) of the Standard Specifications to read:

- “ (d) Rapid Hardening Cement. Rapid hardening cement shall be according to the Bureau of Materials Policy Memorandum “Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants”, and ASTM C 1600, Type URH, Type VRH, or Type RH-CAC. It shall be used according to Article 1020.04 or when approved by the Engineer. The Contractor shall submit a report from the manufacturer or an independent lab that contains results for testing according to ASTM C 1600 which shows the cement meets the requirements of either Type URH, Type VRH, or Type RH-CAC. Test data shall be less than 1 year old from the date of submittal.

Revise Article 1001.01(e) of the Standard Specifications to read:

- “ (e) Other Cements. Other cements shall be according to the Bureau of Materials Policy Memorandum “Portland or Blended Cement Acceptance Procedure for Qualified and Non-Qualified Plants”, and ASTM C 1157 or ASTM C 1600, as applicable. Other cements shall be used according to Article 1020.04 or when approved by the Engineer. For cements according to ASTM C 1157, the Contractor shall submit a report from the manufacturer or an independent lab that contains results of tests which shows the cement meets the requirements Type GU, HE, MS, MH, or LH. For cements according to ASTM C 1600, the Contractor shall submit a report from the manufacturer or an independent lab that contains results of tests which shows the cement meets the requirements Type MRH or GRH. Test data shall be less than 1 year old from the date of submittal.”

Revise Article 1002.02 of the Standard Specifications to read:

“ **1002.02 Quality.** Water used with cement in concrete or mortar and water used for curing concrete shall be clean, clear, and free from sugar. In addition, water shall be tested and evaluated for acceptance according to one of the following options.

OPTION 1.

- (a) Acceptable limits for acidity and alkalinity when tested according to ITP T 26.

- (1) Acidity -- 0.1 Normal NaOH..... 2 ml max.*
(2) Alkalinity -- 0.1 Normal HCl..... 10 ml max.*

*To neutralize 200 ml sample.

- (b) Acceptable limits for solids when tested according to the following.

- (1) Organic (ITP T 26)..... 0.02% max.
(2) Inorganic (ITP T 26)..... 0.30% max.
(3) Sulfate (SO₄) (ASTM D 516-82)..... 0.05% max.
(4) Chloride (ASTM D 512)..... 0.06% max.

- (c) The following tests shall be performed on the water sample and on deionized water. The same cement and sand shall be used for both tests.

- (1) Unsoundness (ASTM C 151).



- (2) Initial and Final Set Time (ASTM C 266).
- (3) Strength (ASTM C 109).

The test results for the water sample shall not deviate from the test results for the deionized water, except as allowed by the precision in the test method.

OPTION 2. Water shall meet the requirements ASTM C 1602 Tables 1 and 2 as outlined in Sections 5.1, 5.2, and 5.4.”

Revise Note 2/ in Article 1003.01(b) of the Standard Specifications to read:

- “ 2/ Applies only to sand. Sand exceeding the colorimetric test standard of 11 (Illinois Modified AASHTO T 21) will be checked for mortar making properties according to Illinois Modified ASTM C 87 and shall develop a compressive strength at the age of 14 days when using Type I, IL, or II cement of not less than 95 percent of the comparable standard.

Revise the second sentence of Article 1003.02(e)(1) of the Standard Specifications to read:

- “ The test will be performed with Type I, IL, or II portland cement having a total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of 0.90 percent or greater.”

Revise the first sentence of the second paragraph of Article 1003.02(e)(3) of the Standard Specifications to read:

- “ The ASTM C 1293 test shall be performed with Type I, IL, or II portland cement having a total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of 0.80 percent or greater.”

Revise the second sentence of Article 1004.02(g)(1) of the Standard Specifications to read:

- “ The test will be performed with Type I, IL, or II portland cement having a total equivalent alkali content ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$) of 0.90 percent or greater.”

Add the following Section to the Standard Specifications.

“SECTION 1014. FIBERS FOR CONCRETE

1014.01 General. Fibers used in concrete shall be Type II or Type III (polyolefin or carbon) according to ASTM C 1116. The testing required for Type II fibers or Type III polyolefin fibers shall be performed by an independent lab a minimum of once every five years, and the test results provided to the Department. Manufacturers of Type III carbon fibers shall provide materials certification documentation not more than 6 years old a minimum of once every 5 years to the Department. The Department will maintain a qualified product list. The method of inclusion of fibers into concrete mixtures shall be according to the manufacturer’s specifications.

At the discretion of the Engineer, the concrete mixture shall be evaluated in a field demonstration for fiber clumping, ease of placement, and ease of finishing. The field demonstration shall consist of a minimum 2 cu yd (1.5 cu m) trial batch placed in a 12 ft x 12 ft (3.6 m x 3.6 m) slab.

1014.02 Concrete Gutter, Curb, Median and Paved Ditch. Fibers shall be Type III. Fibers shall have a minimum length of 1/2 in. (13 mm) and a maximum length of 0.75 in. (19 mm). The maximum



dosage rate in the concrete mixture shall not exceed 1.5 lb/cu yd (0.9 kg/cu m). The minimum dosage rate shall be per the manufacturer's recommendation.

1014.03 Concrete Inlay or Overlay. Fibers shall be Type III. Fibers shall have a minimum length of 1.0 in. (25 mm), a maximum length of 2 1/2 in. (63 mm), and a maximum aspect ratio (length divided by the equivalent diameter of the fiber) of 150. The maximum dosage rate shall not exceed 5.0 lb/cu yd (3.0 kg/cu m). The minimum dosage rate shall be per the manufacturer's recommendation.

1014.04 Bridge Deck Fly Ash, Ground Granulated Blast Furnace (GGBF) Slag, High Reactivity Metakaolin, or Microsilica (Silica Fume) Concrete Overlay. Fibers shall be Type III. The dosage rate shall be a minimum of 3.0 lb/cu yd (1.8 kg/cu m), unless a field demonstration according to Article 1014.01 indicates that a lower dosage rate is necessary. Based on the results of the field demonstration, the Department has the option to reduce the dosage rate of fibers, but the dosage will not be reduced to less than 2.0 lb / cu yd (1.2 kg/cu m).

1014.05 Bridge Deck Latex Concrete Overlay. Fibers shall be Type II or III. Fibers shall have a minimum length of 0.75 in. (19 mm), a maximum length of 1.75 in. (45 mm), and an aspect ratio (length divided by the equivalent diameter of the fiber) of between 70 and 100. The dosage rate shall be a minimum of 3.0 lb/cu yd (1.8 kg/cu m), unless a field demonstration according to Article 1014.01 indicates that a lower dosage rate is necessary. Based on the results of the field demonstration, the Department has the option to reduce the dosage rate of fibers, but the dosage will not be reduced to less than 2.0 lb/cu yd (1.2 kg/cu m)."

Add the following Section to the Standard Specifications:

"SECTION 1015. HIGH PERFORMANCE SHOTCRETE

1015.01 Packaged Shotcrete With Aggregate. The packaged shotcrete with aggregate shall be a pre-blended dry combination of materials for the wet-mix shotcrete method according to ASTM C 1480, Type FA or CA, Grade FR, Class I. The fibers shall be Type III according to Article 1014.01. The cement and finely divided minerals in the mixture shall be a minimum 6.65 cwt/cu yd (395 kg/cu m), and the portland cement shall not be below 4.70 cwt/cu yd (279 kg/cu m). Microsilica is required in the mixture and shall be a minimum of 5 percent by weight (mass) of cementitious material, and a maximum of 10 percent. Strength requirements shall be according to ASTM C 1480 except that the strength at 28 days shall be at least 4000 psi (27,500 kPa). Strength testing shall be according to ASTM C 1140. The air content as shot shall be 4.0 – 8.0 percent when tested according to AASHTO T 152, and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm).

The packaged shotcrete shall have a water soluble chloride ion content of less than 0.15% by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260.

The testing according to ASTM C 1480, ASTM C 1140, AASHTO 152, and ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every 5 years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Batching and mixing shall be per the manufacturer's recommendations.

1015.02 Packaged Shotcrete Without Aggregate. The packaged shotcrete that does not include pre-blended aggregate shall be according to Article 1015.01, except the added aggregate shall be according to Articles 1003.02 and 1004.02. The aggregate gradation shall be according to the manufacturer. The Department will maintain a qualified product list. Batching and mixing shall be per the manufacturer's recommendations."



Revise Section 1017 of the Standard Specifications to read:

“SECTION 1017. PACKAGED, DRY, COMBINED MATERIALS FOR MORTAR AND CONCRETE

1017.01 Mortar. The mortar shall be high-strength according to ASTM C 387 and shall have a minimum 80.0 percent relative dynamic modulus of elasticity when tested according to AASHTO T 161. For prestressed concrete applications, the mortar shall have a water-soluble chloride ion content of less than 0.06 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260; and for non-prestressed concrete applications, the water soluble chloride content shall be less than 0.15 percent by weight of cementitious material. The testing according to ASTM C 387, AASHTO T 161, and either ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every five years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing of the high-strength mortar shall be according to the manufacturer’s specifications.

1017.02 Concrete. The materials, testing, and preparation of aggregate for the “high slump” packaged concrete mixture shall be according to ASTM C 387. The mixture shall be air entrained, the slump shall be 5-10 in. (125-250 mm), and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm). Strength requirements shall be according to ASTM C 387 except that the strength at 28 days shall be at least 4000 psi (27,500 kPa). The “high slump” packaged concrete mixture shall have a water soluble chloride ion content of less than 0.15% by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260. The testing according to ASTM C 387, and either ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every 5 years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing shall be per the manufacturer’s recommendations.

1017.02 Self-Consolidating Concrete. The materials, testing, and preparation of aggregate for the “self-consolidating concrete” packaged concrete mixture shall be according to ASTM C 387. The mixture shall be air entrained, it should be uniformly graded, and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm). Strength requirements shall be according to ASTM C 387 except that the strength at 28 days shall be at least 4000 psi (27,500 Pa). Slump flow range shall be 22 in. (550 mm) minimum to 28 in. (700 mm) maximum when tested according to AASHTO T 347. The visual stability index shall be a maximum of 1 when tested according to AASHTO T 351. At the option of the manufacturer, either the J-Ring value shall be a maximum of 2 in. (50 mm) when tested according to AASHTO T 347 or the L-Box blocking ratio shall be a minimum of 80 percent when tested according AASHTO T 419. The hardened visual stability index shall be a maximum of 1 when tested according to AASHTO R 81.

The “self -consolidating concrete” packaged concrete mixture shall have a water soluble chloride ion content of less than 0.15 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260.

The testing according to ASTM C 387, AASHTO T 347, AASHTO T 351, AASHTO T 419, AASHTO R 81, ASTM C 1218 and AASHTO T 260 shall be performed by an independent lab a minimum of once every 5 years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing shall be per the manufacturer’s recommendations.”

Revise Article 1018.01 of the Standard Specifications to read:



“ **1018.01 Requirements.** The rapid hardening mortar or concrete shall be according to ASTM C 928 and shall have successfully completed and remain current with the AASHTO Product Eval and Audit Rapid Hardening Concrete Patching Materials (RHCP) testing program. R1, R2, or R3 concrete shall be air entrained, the slump shall be 5-10 in. (125-250 mm), and the coarse aggregate shall be a maximum size of 1/2 in. (12.5 mm). For prestressed concrete applications, the mortar or concrete shall have a water-soluble chloride ion content of less than 0.06 percent by weight of cementitious material when tested according to ASTM C 1218 or AASHTO T 260; and for non-prestressed concrete applications, the water soluble chloride content shall be less than 0.15 percent by weight of cementitious material. The Department will maintain a qualified product list. Mixing of the mortar or concrete shall be according to the manufacturer’s specifications..”

Revise Article 1019.02 of the Standard Specifications to read:

“ **1019.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Cement	1001
(b) Water	1002
(c) Fine Aggregate for Controlled Low-Strength Material (CLSM).....	1003.06
(d) Fly Ash	1010
(e) Ground Granulated Blast Furnace (GGBF) Slag	1010
(f) Admixtures (Note 1)	

Note 1. The air-entraining admixture may be in powder or liquid form. The air content produced by the admixture shall be 15-25 percent when incorporated into Mix 2 or an equivalent mixture as determined by the Department and tested according to AASHTO T 121 or AASHTO T 152. The testing according to AASHTO T 121 or AASHTO T 152 shall be performed by an independent lab a minimum of once every five years, and the test results shall be provided to the Department. The Department will maintain a qualified product list.”

Revise the third paragraph of Article 1019.04 of the Standard Specifications to read:

“ The Engineer will instruct the Contractor to adjust the proportions of the mix design in the field as needed to meet the design criteria, provide adequate flowability, maintain proper solid suspension, or other criteria established by the Engineer.”

Revise Article 1019.05 of the Standard Specifications to read:

“ **1019.05 Department Mix Design.** The Department mix design shall be Mix 1, 2, or 3 and shall be proportioned to yield approximately one cubic yard (cubic meter).

Mix 1	
Cement	50 lb (30 kg)
Fly Ash – Class C or F, and/or GGBF Slag	125 lb (74 kg)
Fine Aggregate – Saturated Surface Dry	2900 lb (1720 kg)
Water	50-65 gal (248-322 L)
Air Content	No air is entrained



Mix 2	
Cement	125 lb (74 kg)
Fine Aggregate – Saturated Surface Dry	2500 lb (1483 kg)
Water	35-50 gal (173-248 L)
Air Content	15-25 %

Mix 3	
Cement	40 lb (24 kg)
Fly Ash – Class C or F, and/or GGBF Slag	125 lb (74 kg)
Fine Aggregate – Saturated Surface Dry	2500 lb (1483 kg)
Water	35-50 gal (179-248 L)
Air Content	15-25 %

Revise Article 1020.04, Table 1, Note (8) of the Standard Specifications to read:

- “ (8)In addition to the Type III portland cement, 100 lb/cu yd of ground granulated blast-furnace slag and 50 lb/cu yd of microsilica (silica fume) shall be used. For an air temperature greater than 85 °F, the Type III portland cement may be replaced with Type I, II, or II portland cement.”

Revise Article 1020.04, Table 1 (Metric), Note (8) of the Standard Specifications to read:

- “ (8)In addition to the Type III portland cement, 60 kg/cu m of ground granulated blast-furnace slag and 30 kg/cu m of microsilica (silica fume) shall be used. For an air temperature greater than 30 °C, the Type III portland cement may be replaced with Type I, II, or II portland cement.”

Revise Note 9 of Table 1 of Article 1020.04 of the Standard Specifications to read:

- “ (9)The cement shall be a rapid hardening according to Article 1001.01(d). Minimum or maximum cement factor may be adjusted when approved by the Engineer.”

Revise the second paragraph of Article 1020.05(a) of the Standard Specifications to read:

- “ For a mix design using a portland-pozzolan cement, portland blast-furnace slag cement, portland-limestone cement, or replacing portland cement with finely divided minerals per Articles 1020.05(c) and 1020.05(d), the Contractor may submit a mix design with a minimum portland cement content less than 400 lbs/cu yd (237 kg/cu m), but not less than 375 lbs/cu yd (222 kg/cu m), if the mix design is shown to have a minimum relative dynamic modulus of elasticity of 80 percent determined according to AASHTO T 161. Testing shall be performed by an independent laboratory accredited by AASHTO re:source for Portland Cement Concrete.”

Revise the first sentence of the first paragraph of Article 1020.05(b) of the Standard Specifications to read:

- “ Corrosion inhibitors and concrete admixtures shall be according to the qualified product lists.”

Delete the fourth and fifth sentences of the second paragraph of Article 1020.05(b) of the Standard Specifications.



Revise Article 1020.05(b)(5) of the Standard Specifications to read:

- “ (5) For Class PP-4 concrete, a high range water-reducing admixture, retarder, and/or hydration stabilizer may be used in addition to the air-entraining admixture. The Contractor also has the option to use a water-reducing admixture with the high range water-reducing admixture. An accelerator shall not be used. A mobile portland cement concrete plant shall be used to produce the patching mixture.

For PP-5 concrete, a non-chloride accelerator, high range water-reducing admixture, retarder, hydration stabilizer, and/or air-entraining admixture may be used. The accelerator, high range water-reducing admixture, retarder, hydration stabilizer, and/or air-entraining admixture shall be per the Contractor's recommendation and dosage. The qualified product list of concrete admixtures shall not apply. A mobile portland cement concrete plant shall be used to produce the patching mixture.”

Revise second paragraph of Article 1020.05(b)(10) of the Standard Specifications to read:

- “ When calcium nitrite is used, it shall be added at the rate of 4 gal/cu yd (20 L/cu m) and shall be added to the mix immediately after all compatible admixtures have been introduced to the batch. Other corrosion inhibitors shall be added per the manufacturer's specifications.”

Delete the third paragraph of Article 1020.05(b)(10) of the Standard Specifications.

Revise Article 1020.15(b)(1)c. of the Standard Specifications to read:

- “ c. The minimum portland cement content in the mixture shall be 375 lbs/cu yd (222 kg/cu m). When the total of organic processing additions, inorganic processing additions, and limestone addition exceed 5.0 percent in the cement, the minimum portland cement content in the mixture shall be 400 lbs/cu yd (237 kg/cu m). For a drilled shaft, foundation, footing, or substructure, the minimum portland cement may be reduced to as low as 330 lbs/cu yd (196 kg/cu m) if the concrete has adequate freeze/thaw durability. The Contractor shall provide freeze/thaw test results according to AASHTO T 161, and the relative dynamic modulus of elasticity of the mix design shall be a minimum of 80 percent. Testing shall be performed by an independent laboratory accredited by AASHTO re:source for Portland Cement Concrete. Freeze/thaw testing will not be required for concrete that will not be exposed to freezing and thawing conditions as determined by the Engineer.”

Revise Article 1021.01 of the Standard Specifications to read:

“ **1021.01 General.** Admixtures shall be furnished in liquid or powder form ready for use. The admixtures shall be delivered in the manufacturer's original containers, bulk tank trucks or such containers or tanks as are acceptable to the Engineer. Delivery shall be accompanied by a ticket which clearly identifies the manufacturer, the date of manufacture, and trade name of the material. Containers shall be readily identifiable as to manufacturer, the date of manufacture, and trade name of the material they contain.

Concrete admixtures shall be on one of the Department's qualified product lists. Unless otherwise noted, admixtures shall have successfully completed and remain current with the AASHTO Product Eval and Audit Concrete Admixture (CADD) testing program. For admixture submittals to the Department; the product brand name, manufacturer name, admixture type or types, an electronic link to the product's



technical data sheet, and the NTPEP testing number which contains an electronic link to all test data shall be provided. In addition, a letter shall be submitted certifying that no changes have been made in the formulation of the material since the most current round of tests conducted by AASHTO Product Eval and Audit. After 28 days of testing by AASHTO Product Eval and Audit, air-entraining admixtures may be provisionally approved and used on Departmental projects. For all other admixtures, unless otherwise noted, the time period after which provisionally approved status may be earned is 6 months.

The manufacturer shall include the following in the submittal to the AASHTO Product Eval and Audit CADD testing program: the manufacturing range for specific gravity, the midpoint and manufacturing range for residue by oven drying, and manufacturing range of pH. The submittal shall also include an infrared spectrophotometer trace no more than five years old.

For air-entraining admixtures according to Article 1021.02, the specific gravity allowable manufacturing range established by the manufacturer shall be according to AASHTO M 194. For residue by oven drying and pH, the allowable manufacturing range and test methods shall be according to AASHTO M 194.

For admixtures according to Articles 1021.03, 1021.04, 1021.05, 1021.06, 1021.07, and 1021.08, the pH allowable manufacturing range established by the manufacturer shall be according to ASTM E 70. For specific gravity and residue by oven drying, the allowable manufacturing range and test methods shall be according to AASHTO M 194.

All admixtures, except chloride-based accelerators, shall contain a maximum of 0.3 percent chloride by weight (mass) as determined by an appropriate test method. To verify the test result, the Department will use Illinois Modified AASHTO T 260, Procedure A, Method 1.

Prior to final approval of an admixture, the Engineer reserves the right to request a sample for testing. The test and reference concrete mixtures tested by the Engineer will contain a cement content of 5.65 cwt/cu yd (335 kg/cu m). For freeze-thaw testing, the Department will perform the test according to Illinois Modified AASHTO T 161. The flexural strength test will be performed according to AASHTO T 177. If the Engineer decides to test the admixture, the manufacturer shall submit AASHTO T 197 water content and set time test results on the standard cement used by the Department. The manufacturer may select their lab or an independent lab to perform this testing. The laboratory is not required to be accredited by AASHTO.

Random field samples may be taken by the Department to verify an admixture meets specification. A split sample will be provided to the manufacturer if requested. Admixtures that do not meet specification requirements or an allowable manufacturing range established by the manufacturer shall be replaced with new material.”

Revise Article 1021.03 of the Standard Specifications to read:

“ **1021.03 Retarding and Water-Reducing Admixtures.** The admixture shall be according to the following.

- (a) Retarding admixtures shall be according to AASHTO M 194, Type B (retarding) or Type D (water-reducing and retarding).
- (b) Water-reducing admixtures shall be according to AASHTO M 194, Type A.



- (c) High range water-reducing admixtures shall be according to AASHTO M 194, Type F (high range water-reducing) or Type G (high range water-reducing and retarding)."

Revise Article 1021.05 of the Standard Specifications to read:

" **1021.05 Self-Consolidating Admixtures.** Self-consolidating admixture systems shall consist of either a high range water-reducing admixture only or a high range water-reducing admixture combined with a separate viscosity modifying admixture. The one or two component admixture system shall be capable of producing a concrete that can flow around reinforcement and consolidate under its own weight without additional effort and without segregation.

High range water-reducing admixtures shall be according to AASHTO M 194, Type F.

Viscosity modifying admixtures shall be according to AASHTO M 194, Type S (specific performance)."

Revise Article 1021.06 of the Standard Specifications to read:

" **1021.06 Rheology-Controlling Admixture.** Rheology-controlling admixtures shall be capable of producing a concrete mixture with a lower yield stress that will consolidate easier for slipform applications used by the Contractor. Rheology-controlling admixtures shall be according to AASHTO M 194, Type S (specific performance)."

Revise Article 1021.07 of the Standard Specifications to read:

" **1021.07 Corrosion Inhibitor.** The corrosion inhibitor shall be according to one of the following.

- (a) Calcium Nitrite. Corrosion inhibitors shall contain a minimum 30 percent calcium nitrite by weight (mass) of solution and shall comply with either the requirements of AASHTO M 194, Type C (accelerating) or the requirements of ASTM C 1582. The corrosion inhibiting performance requirements of ASTM C 1582 shall not apply.
- (b) Other Materials. The corrosion inhibitor shall be according to ASTM C 1582.

For submittals requiring testing according to ASTM M 194, Type C (accelerating), the admixture shall meet the requirements of the AASHTO Product Eval and Audit CADD testing program according to Article 1021.01.

For submittals requiring testing according to ASTM C 1582, a report prepared by an independent laboratory accredited by AASHTO re:source for portland cement concrete shall be provided. The report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications. However, ASTM G 109 test information specified in ASTM C 1582 is not required to be from an independent accredited lab. All other information in ASTM C 1582 shall be from an independent accredited lab. Test data and other information required to be submitted to AASHTO Product Eval and Audit according to Article 1021.01, shall instead be submitted directly to the Department."

Add Article 1021.08 of the Standard Specifications as follows:



“ **1021.08 Other Specific Performance Admixtures.** Other specific performance admixtures shall, at a minimum, be according to AASHTO M 194, Type S (specific performance). The Department also reserves the right to require other testing, as determined by the Engineer, to show evidence of specific performance characteristics.

Initial testing according to AASHTO M 194 may be conducted under the AASHTO Product Eval and Audit CADD testing program according to Article 1021.01, or by an independent laboratory accredited by AASHTO re:source for Portland Cement Concrete. In either case, test data and other information required to be submitted to AASHTO Product Eval and Audit according to Article 1021.01, shall also be submitted directly to the Department. The independent accredited lab report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications.”

Add Article 1021.09 of the Standard Specifications as follows:

“ **1021.09 Latex Admixtures.** The latex admixture shall be a uniform, homogeneous, non-toxic, film-forming, polymeric emulsion in water to which all stabilizers have been added at the point of manufacture. The latex admixture shall not contain any chlorides and shall contain 46-49 percent solids.

In lieu of meeting the requirements of Article 1021.01, the Contractor shall submit a manufacturer's certification that the latex emulsion meets the requirements of FHWA Research Report RD-78-35, Chapter VI. The certificate shall include the date of manufacture of the latex admixture, batch or lot number, quantity represented, manufacturer's name, and the location of the manufacturing plant. The latex emulsion shall be sampled and tested in accordance with RD-78-35, Chapter VII, Certification Program.

The latex admixture shall be packaged and stored in containers and storage facilities which will protect the material from freezing and from temperatures above 85°F (30°C). Additionally, the material shall not be stored in direct sunlight and shall be shaded when stored outside of buildings during moderate temperatures.”

Revise Article 1024.01 of the Standard Specifications to read:

“ **1024.01 Requirements for Grout.** The grout shall be proportioned by dry volume, thoroughly mixed, and shall have a minimum temperature of 50 °F (10 °C). Water shall not exceed the minimum needed for placement and finishing.

Materials for the grout shall be according to the following.

Item	Article/Section
(a) Cement	1001
(b) Water	1002
(c) Fine Aggregate	1003.02
(d) Fly Ash	1010
(e) Ground Granulated Blast Furnace (GGBF) Slag	1010
(f) Concrete Admixtures	1021”

Revise Note 1 of Article 1024.02 of the Standard Specifications to read:

“ Note 1. Nonshrink grout shall be according to ASTM C 1107.

For prestressed concrete applications, the nonshrink grout shall have a water soluble chloride ion content of less than 0.06 percent by weight of cementitious material when tested according to ASTM



C 1218 or AASHTO T 260; and for non-prestressed concrete applications, the water soluble chloride ion content shall be less than 0.15 percent by weight of cementitious material. The testing according to ASTM 1107, and either ASTM C 1218 or AASHTO T 260 shall be performed by an independent lab a minimum of once every five years, and the test results shall be provided to the Department. The Department will maintain a qualified product list. Mixing of the nonshrink grout shall be according to the manufacturer's specifications."

Revise Article 1029.02 of the Standard Specifications to read:

" **1029.02 Materials.** Materials shall be according to the following.

Item	Article/Section
(a) Cement.....	1001
(b) Fly Ash.....	1010
(c) Ground Granulated Blast Furnace (GGBF) Slag	1010
(d) Water.....	1002
(e) Fine Aggregate.....	1003
(f) Concrete Admixtures	1021
(g) Foaming Agent (Note 1)	

Note 1. The manufacturer shall submit infrared spectrophotometer trace and test results indicating the foaming agent meets the requirements of ASTM C 869 in order to be on the Department's qualified product list. Submitted data/results shall not be more than five years old."

Revise the second paragraph of Article 1103.03(a)(4) the Standard Specifications to read:

".....
The dispenser system shall provide a visual indication that the liquid admixture is actually entering the batch, such as via a transparent or translucent section of tubing or by independent check with an integrated secondary metering device. If approved by the Engineer, an alternate indicator may be used for admixtures dosed at rates of 25 oz/cwt (1630 mL/100 kg) or greater, such as accelerating admixtures, corrosion inhibitors, and viscosity modifying admixtures."

Revise Article 1103.04 of the Standard Specifications to read:

" **1103.04 Mobile Portland Cement Concrete Plants.** The mobile concrete plant shall be according to AASHTO M 241 and the Bureau of Materials Policy Memorandum "Approval of Volumetric Mobile Mixers for Concrete". The mixer shall be capable of carrying sufficient unmixed materials to produce not less than 6 cu yd (4.6 cu m) of concrete."

Revise the first two sections of Check Sheet #11 "Subsealing of Concrete Pavements" of the Recurring Special Provisions to read:

" Description. This work shall consist of filling voids beneath rigid and composite pavements with cement grout.

Materials. Materials shall be according to the following Articles/Sections of the Standard Specifications:

Item	Article/Section
(a) Cement	1001



- (b) Water 1002
- (c) Fly Ash 1010
- (d) Ground Granulated Blast Furnace (GGBF) Slag 1010
- (e) Admixtures 1021
- (f) Packaged Rapid Hardening Mortar or Concrete 1018”

Revise the Materials section of Check Sheet #28 “Portland Cement Concrete Inlay or Overlay” of the Recurring Special Provisions to read:

“Materials. Materials shall be according to the following Articles/Sections of the Standard Specifications.

Item	Article/Section
(a) Portland Cement Concrete (Note 1).....	1020
(b) Fibers for Concrete	1014
(c) Protective Coat.....	1023.01

Note 1. Class PV concrete shall be used, except the cement factor for central mixed concrete shall be 6.05 cwt/cu yd (360 kg/cu m). A cement factor reduction according to Article 1020.05(b)(8) of the Standard Specifications will be permitted. CA 5 shall not be used and CA 7 may only be used for overlays that are a minimum of 4.5 in. (113 mm) thick. The Class PV concrete shall have a minimum flexural strength of 550 psi (3800 kPa) or a minimum compressive strength of 3000 psi (20,700 kPa) at 14 days.”

PAVEMENT MARKING (BDE)

Effective: April 1, 2025

Revised: November 1, 2025

Revise the fourth sentence of the fourth paragraph of Article 780.05 of the Standard Specifications to read:

“ Grooves for letters and symbols shall be cut in a rectangular shape or in the shape of the proposed marking so the entire marking will fit within the limits of the grooved area.”

Revise the last sentence of the third paragraph of Article 780.08 of the Standard Specifications to read:

“ The Contractor shall install the preformed plastic pavement markings according to the manufacturer’s recommendations.”

Revise the second sentence of the first paragraph of Article 780.13 of the Standard Specifications to read:

“ In addition, thermoplastic, preformed plastic, epoxy, preformed thermoplastic, polyurea, and modified urethane pavement markings will be inspected following a winter performance period that extends from November 15 to April 1 of the next year.”

RAILROAD PROTECTIVE LIABILITY INSURANCE (BDE)

Effective: December 1, 1986

Revised: January 1, 2022



Description. Railroad Protective Liability and Property Damage Liability Insurance shall be carried according to Article 107.11 of the Standard Specifications. A separate policy is required for each railroad unless otherwise noted.

NAMED INSURED & ADDRESS	NUMBER & SPEED OF PASSENGER TRAINS	NUMBER & SPEED OF FREIGHT TRAINS
Illinois Central Railway Company And its Parents Finance / Insurance Mail 17641 S. Ashland Avenue Homewood, IL 60430	19 TRAINS – 1 TO 79 MPH	
Class 1 RR (Y or N): Y DOT/AAR No.: 289 754N RR Division: IOWA	RR Mile Post: 32.74 RR Sub-Division: JOLIET	
For Freight/Passenger Information Contact: Diane Lewis For Insurance Information Contact: Rob Glass		Phone: 708-332-3557 Phone: 708-332-6673

Basis of Payment. Providing Railroad Protective Liability and Property Damage Liability Insurance will be paid for at the contract unit price per Lump Sum for RAILROAD PROTECTIVE LIABILITY INSURANCE.

VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE)

Effective: November 1, 2021
Revised: November 1, 2022

Add the following paragraph after the first paragraph of Article 701.08 of the Standard Specifications:

“ The Contractor shall equip all vehicles and equipment with high-intensity oscillating, rotating, or flashing, amber or amber-and-white, warning lights which are visible from all directions. In accordance with 625 ILCS 5/12-215, the lights may only be in operation while the vehicle or equipment is engaged in construction operations.”

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: March 2, 2020
Revised: January 1, 2026

Add the following to Article 701.03 of the Standard Specifications:



“ (q)..... Temporary Sign Supports
..... 1106.02”

Revise Article 701.03(p) of the Standard Specifications to read:

“ (p)Detectable Pedestrian Channelizing Barricades
..... 1106.02(m)”

Revise the third paragraph of Article 701.14 of the Standard Specifications to read:

“ For temporary sign supports, the Contractor shall provide a FHWA eligibility letter for each device used on the contract. The letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device. The signs shall be supported within 20 degrees of vertical. Weights used to stabilize signs shall be attached to the sign support per the manufacturer’s specifications.”

Revise the first paragraph of Article 701.15 of the Standard Specifications to read:

“ **701.15 Traffic Control Devices.** For devices that must meet crashworthiness standards, the Contractor shall provide a manufacturer’s self-certification or a FHWA eligibility letter for each Category 1 device and a FHWA eligibility letter for each Category 2 and Category 3 device used on the contract. The self-certification or letter shall provide information for the set-up and use of the device as well as a detailed drawing of the device.”

Revise the first six paragraphs of Article 1106.02 of the Standard Specifications to read:

“ **1106.02 Devices.** Work zone traffic control devices and combinations of devices shall meet crashworthiness standards for their respective categories. The categories are as follows.

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, plastic drums, and delineators, with no attachments (e.g. lights). Category 1 devices shall be MASH compliant.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include vertical panels with lights, barricades, temporary sign supports, and Category 1 devices with attachments (e.g. drums with lights). Category 2 devices shall be MASH compliant.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions (impact attenuators), truck mounted attenuators, and other devices not meeting the definitions of Category 1 or 2. Category 3 devices manufactured after December 31, 2019 shall be MASH compliant. Category 3 devices manufactured on or before December 31, 2019, and compliant with NCHRP 350, may be used on contracts let before December 31, 2029. Category 3 devices shall be crash tested for Test Level 3 or the test level specified.

Category 4 includes portable or trailer-mounted devices such as sign supports, speed feedback displays, arrow boards, changeable message signs, temporary traffic signals, and area lighting supports. It is preferable for Category 4 devices manufactured after December 31, 2019 to be MASH-16 compliant; however, there are currently no crash tested devices in this category, so it remains exempt from the NCHRP 350 or MASH compliance requirement.



For each type of device, when no more than one MASH compliant is available, an NCHRP 350 compliant device may be used, even if manufactured after December 31, 2019.”

Revise the first paragraph of Section 1106.02(a) of the Standard Specifications to read:

- “ (a) Lights. Lights shall meet the requirements of Chapter 13 of the “Equipment and Materials Standards of the Institute of Transportation Engineers,” 1998, Institute of Transportation Engineers, and shall be visible on a clear night from a distance of 3000 ft (900 m). Lights are classified as follows.”

Revise Articles 1106.02(g), 1106.02(k), 1106.02(l), and 1106.02(m) of the Standard Specifications to read:

- “ (g) Truck Mounted/Trailer Mounted Attenuators. The attenuator shall be approved for use at Test Level 3. Test Level 2 may be used for normal posted speeds less than or equal to 45 mph.

- (k) Temporary Water Filled Barrier. The water filled barrier shall be a lightweight plastic shell designed to accept water ballast and be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings.

- (l) Movable Traffic Barrier. The movable traffic barrier shall be on the Department’s qualified product list.

Shop drawings shall be furnished by the manufacturer and shall indicate the deflection of the barrier as determined by acceptance testing; the configuration of the barrier in that test; and the vehicle weight, velocity, and angle of impact of the deflection test. The Engineer shall be provided one copy of the shop drawings. The barrier shall be capable of being moved on and off the roadway on a daily basis.

- (m) Detectable Pedestrian Channelizing Barricades. The top panel or handrail shall be continuous and there should be at least a 2 in. (50 mm) gap between the hand trailing edge and its support. When visible to vehicular traffic, the top rail shall have alternating white and orange retroreflective stripes sloping at 45 degrees. The bottom panel shall be continuous and have alternating white and orange retroreflective stripes sloping at 45 degrees. Barricade stripes shall be 6 in. (150 mm) in width. The predominant color for other barricade components shall be white, orange, or silver.”



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**GEOTECHNICAL EXPLORATION/FEASIBILITY STUDY REPORT FOR
New Parking Lot at
11th & Commerce St., Lockport, IL 60441**

PROJECT NUMBER 2026-1301-01G

Prepared For

**Mr. Kurt Corrigan
V3 Companies
7325 Janes Avenue
Woodridge, IL 60517**



www.nstengr.com

**Mr. Kurt Corrigan
V3 Companies
7325 Janes Avenue
Woodridge, IL 60517**

Date: 4/13/2026

RE: Geotechnical Exploration/Feasibility Study for the New Parking Lot at
 11th & Commerce St., Lockport, IL-60441

Dear Mr. Corrigan:

Following your written authorization on March 11, 2026, of our proposal dated January 26, 2026; we have completed this geotechnical exploration. Enclosed you will find the results of our field exploration, related laboratory testing, and geotechnical report. This report is the instrument of service defined in our proposal; we are also submitting electronic copies.

We have enjoyed working with you on this phase of the project. Should you have any questions or if we can be of further assistance, please do not hesitate to contact us.

Sincerely,
NASHnal Soil Testing, LLC

A handwritten signature in black ink, appearing to read "Umar T. Ahmad", is written over the company name.

Umar T. Ahmad, PE
Registered Professional Engineer, Illinois
Registration # 062-055148



Expires 11/30/2027



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GEOTECHNICAL EXPLORATION/FEASIBILITY STUDY REPORT FOR New Parking Lot at 11th & Commerce St., Lockport, IL 60441

PROJECT NUMBER 2026-1301-01G

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INTRODUCTION

It is our understanding that you are planning to build a new parking lot in Lockport, IL.

At the time of our initial site visit, the area was covered with grass, asphalt, trees and residential/commercial structures. The site topography was observed to be relatively sloping toward the west, with surface elevations across the borings ranging from approximately 583.00 to 593.00. Elevations were assigned based on GPS coordinates and Google Earth. We strongly recommend that your project surveyor tie these elevations to National Geodetic Vertical Datum.

To evaluate the subsurface soil profile, the client requested we drilled four (4) soil borings to a various depth between 10.0 feet below existing grade (BEG).

Based upon our findings in this subsurface investigation, we believe that there are no major limiting geotechnical concerns present in the profile.

SCOPE OF SERVICES

The purpose of this report is to describe the soil and groundwater conditions encountered in our geotechnical exploration, review and evaluate these conditions with respect to the proposed project and present our recommendations for subgrade support and earthwork design and construction. Our scope of services for this project, as outlined in our proposal, is limited to the following elements.

1. Exploration of the subsurface soil by drilling and sampling four (4) soil borings extending to a depth of 10 feet BEG.
2. Laboratory testing of selected samples for index classification and strength purposes and visual/manual classification of all recovered samples.
3. Development of Geotechnical recommendations, and preparation of this report presenting our findings, evaluations, and recommendations.



FIELD EXPLORATION PROCEDURES

A total of four (4) soil borings extending to a depth of 10.0 feet BEG were drilled. The drilled soil boring locations are shown on the enclosed Plates 2 (Boring Location Diagram). The client specified the number depth and the location of the borings.

The borings were drilled with a truck mounted Geoprobe drill rig, using hollow stem augers to advance the borehole. The soil sampling was performed in accordance with the split-barrel procedure (ASTM: D 1586) with an automatic hammer, and in-situ undisturbed samples were retrieved using a split spoon sampler. The crew prepared field logs noting the drilling and sampling methods along with Standard Penetration Test values (N-values, "blows per foot"), observed groundwater levels, and preliminary soil classifications. Representative samples of the recovered soils were placed in sealed jars to reduce moisture loss before being submitted to our laboratory for examination, testing, and final classification by a Geotechnical Engineer.

If present, groundwater levels in the boreholes were measured during and after drilling. The levels of any encountered water are noted on the respective logs. The observed groundwater levels are discussed under the "Groundwater Conditions" section of this report. The drill crew backfilled the boreholes with soil cuttings after completing the groundwater measurements.

LABORATORY TESTING AND CLASSIFICATION

A Geotechnical Engineer initiated the laboratory classification program by examining each sample to determine the major and minor components, while also noting the color, degree of saturation, and lenses or seams found in the samples. The Engineer directed that selected samples be tested for moisture content and unconfined compressive strength (by hand penetrometer). The test results are shown on the respective logs in the Appendix.

The Geotechnical Engineer visually/manually classified the soils on the basis of texture and plasticity in accordance with the Unified Soil Classification System (USCS). The capital letters in parentheses following the written soil descriptions on the boring logs are estimated group symbols based on this system. A chart describing the properties of the groups under this system is also included in the Appendix. After the classification, the Geotechnical Engineer grouped the soils by type into the strata shown on the boring logs. The stratification lines shown are approximate, *in situ*, as the transition between soil types may be abrupt or gradual in both the horizontal and vertical directions.

Soil samples will be retained for ninety (90) days after the date of this report. Please notify us if there is a desire to have the samples retained beyond this period; otherwise, the samples will be discarded.



SITE CONDITIONS

Topography/Surface Features

At the time of our initial site visit, the area was covered with grass, asphalt, trees and residential/commercial structures. The site topography was observed to be relatively sloping toward the west, with surface elevations across the borings ranging from approximately 583.00 to 593.00. Elevations were assigned based on GPS coordinates and Google Earth. We strongly recommend that your project surveyor tie these elevations to National Geodetic Vertical Datum.

Soil Conditions

The soils encountered are shown on the borehole log in the Appendix of this report. The soil characteristics have been established only at specific boring locations and under environmental conditions at the time of our field exploration. Variations in the soil stratigraphy, compressive strength of the soil, and moisture content were encountered; and additional variations probably exist between and around the borings. The nature and extent of these variations would not become evident until exposed by construction excavation.

In general, underlying the surficial silty clay topsoil and fill soils, the site is predominately formed of very dense sand and gravel/weathered rock and very stiff to hard lean clay. The soil profile described below is a generalized description of the conditions encountered at the boring location. The borehole log should be referred to for more specific information.

In Boring B-1, approximately 6 inches of brown clayey sand and gravel fill (FILL) was encountered at the surface. This was underlain by loose, yellowish-brown sandy gravel consisting of highly weathered, altered limestone (SP-GP) overlying bedrock to an approximate depth of 6.0 feet below existing grade (BEG). Underlying the sandy gravel (SP-GP), dry, very dense to extremely dense, yellowish-brown bedrock (Rock) was encountered and extended to the termination depth of 10.0 feet BEG. The rock encountered is very dense but considered rip-able. No free groundwater was encountered during or upon completion of drilling.

In Boring B-2, approximately 11 inches of brown clayey sand and gravel fill (FILL) was encountered at the surface. This was underlain by loose, yellowish-brown sandy gravel consisting of highly weathered, altered limestone (SP-GP) overlying bedrock to an approximate depth of 3.5 feet below existing grade (BEG). Underlying the sandy gravel (SP-GP), dry, extremely dense, yellowish-brown bedrock (Rock) was encountered and extended to the termination depth of 10.0 feet BEG. The rock encountered is very dense but considered rip-able. No free groundwater was encountered during or upon completion of drilling.

In boring B-3, approximately 2 inches of asphalt (AS) and 6 inches of concrete (CON) were noted at the surface. These were underlain by brown and black clayey sand and gravel fill (FILL) to an approximate depth of 3.5 feet BEG followed by very loose black, cinder and topsoil mix (FILL) to an approximate depth of 6.0 feet BEG. Underlying the cinder and topsoil mix (FILL), very dense,



dry, yellowish-brown bedrock (Rock) was encountered and extended to the termination depth of 10.0 feet BEG. The rock encountered is very dense but considered rippable. No free groundwater was encountered during or upon completion of drilling.

In Boring B-4, approximately 9 inches of brown clayey sand and gravel fill (FILL) was encountered at the surface. This was underlain by dense, dry, dense to extremely dense, yellowish-brown bedrock (Rock) to the termination depth of 10.0 feet BEG. The rock encountered is very dense but considered rip-able. No free groundwater was encountered during or upon completion of drilling.

Groundwater Conditions

Groundwater level observations were made during and upon completion of drilling. No free groundwater was encountered in any of the borings during or after drilling.

It should be noted that groundwater levels are subject to seasonal and long-term variations in response to climatic conditions and man-made influences. Groundwater levels particularly in less permeable cohesive soils (clay) like those found at the site occasionally, may not have had adequate time to stabilize prior to backfilling the boreholes. The hydrostatic groundwater level and any perched water levels will vary in elevation seasonally and annually depending on local amounts of precipitation, evaporation, surface-runoff, infiltration, and land use. If detailed information about the groundwater levels is required, we recommend installing piezometers or monitoring wells to permit long-term observation of the groundwater levels and the fluctuations in these levels.

Brown and gray coloration is typically an indication of a semi-permanent groundwater table. The brown and gray coloration of clay soils is indicative of oxidation whereas the gray coloration is indicative of a lack of oxidation which tends to occur below the lowest level of groundwater.

REVIEW AND RECOMMENDATIONS

Discussion

Based upon our analysis of the soil conditions, limited laboratory analysis, and the available project information, the following recommendations were developed. If the project characteristics are changed from those assumed herein, our recommendations should be reviewed to see whether any modifications are needed. The soil conditions that were found will permit the use of this area for the proposed construction with recommended upgrading of the existing soil where needed.



Site Preparation

Prior to any construction and after removing the trees/roots, bushes, or earthwork/grading, proposed driveway, and parking areas should be stripped to remove existing topsoil and/or any other unsuitable, loose, high moisture surface materials with organics. Voids created in doing this or due to tree stumps and roots removal (if encountered) should be backfilled with select compacted granular fill. All existing/old utilities/structures (if encountered) should also be properly removed, and trenches should be backfilled with compacted granular fill.

The exposed, naturally occurring subgrade soil should be observed and tested by a Geotechnical Engineer or an experienced Materials Technician from **NASHnal Soil Testing, LLC** office to identify the unsuitable soils. The subgrade soil should be carefully observed & proofrolled, and any unsuitable or unstable materials should be removed from the subgrade areas. If perched water is encountered or if rain or snowfall occurs, dewatering may be required in these areas when exposed or if subjected to any other form of water infiltration that would saturate the area.

To backfill the over-excavated areas if any under the walkways, we recommend using imported granular material meeting the gradation requirements of IDOT CA-6. Clayey soils can also be used as backfill, however, it is difficult to compact clayey soils in the narrow trenches in order to achieve the project specifications.

Granular fill meeting the CA-6 gradation specifications should be placed in 8 to 10-inch loose lifts and compacted to at least 95% of the maximum Modified Proctor dry density (ASTM: D 1557). If used, clayey materials should be placed in 6 to 8-inch loose lifts and compacted to at least 95% of the maximum Modified Proctor dry density (ASTM: D 1557) or 98% of the maximum Standard Proctor dry density (ASTM: D 698). Please refer to the notes in the report Appendix concerning placement of compacted fill soils.

Pavement Subgrade

The exposed pavement area should be prepared as mentioned under "site preparation" section of this report. We recommend that the exposed pavement subgrade be proof rolled using heavily loaded construction equipment such as a fully loaded tandem axle dump truck in order to explore the soft or unsuitable soils. Such areas, if encountered should be undercut to expose unsuitable soils (but not more than 30 inches, based upon our estimate of light traffic) from final top of the subgrade elevation and backfilled with compacted soils. Granular backfill under the pavement should be compacted to 95% of relative density with respect to modified proctor density (ASTM D1557). Cinder and Topsoil fill, encountered in B-3 from 3.5-6 ft below existing ground surface appears to be localized and should be explored and removed during construction.

It is recommended that the nominal Illinois Bearing Ratio (IBR) value of 3.0 be used for the preliminary design of flexible asphalt pavements. Use of this value also assumes that any soft



or unstable areas will be remediated, or it has been passed using prof-roll as recommended previously.

We recommend a modulus of subgrade reaction (K_s) of 110 pounds per cubic inch for the design of rigid concrete pavement in the heavy and high traffic areas.

The aggregate base for the asphalt pavements should meet IDOT gradation requirements of CA-6 material and be compacted to 95% of relative density with respect to modified proctor density (ASTM D1557). Asphalt material should meet IDOT class I, type III requirement. The bituminous material should be compacted to 92.5 to 97.5 percent of the theoretical maximum density "Big D" as determined by IDOT standards.

CONSTRUCTION CONSIDERATIONS

Groundwater

Based on the conditions found in the borings, groundwater is not expected during the excavation or during the soil improvement process. Any water which enters excavations from perched groundwater seepage, surface run-off, or direct precipitation, must be promptly pumped out. Water must not be allowed to pond on the subgrade soils since it could soften and disturb them. The contractor should be prepared to handle both surface and groundwater encountered during the construction. The contractor should plan an appropriate dewatering scheme so that all construction activities are performed in dry and stable conditions, especially to avoid potential post construction settlement in sandy materials with shallow groundwater.

Structural fill and pavement should not be placed in standing water or on wet or disturbed soils. Placing fill, asphalt, or concrete into standing water or over disturbed soil can trap softened soil under the structure and lead to excessive post-construction settlement/cracking & rutting, even if the softened zone is only a few inches thick.

Equipment Selection/Soil Disturbance

The soil types at this site, particularly the silty clays when they are saturated or during freeze/thaw conditions, could be disturbed by construction equipment. It is the contractor's responsibility to choose equipment and work procedures, which will not unduly disturb the subgrade soils in the construction and landscaped areas. The contractor should also route construction traffic away from areas of planned pavement and slabs, to minimize soil disturbance.

If the equipment that is chosen causes rutting or pumping of the soil, it is the contractor's responsibility to switch to other types of equipment. The responsibility to properly select construction equipment to avoid disturbing soil on the site lies solely with the contractor. A note about this effect should be included in the project specifications.



Winter Construction

If the construction of this project begins or extends into the winter, the contractors must take special precautions. Only unfrozen fill and backfill should be used, and contractors may charge extra for importing unfrozen soil or keeping stockpiles of backfill from freezing. Clay soil will be especially difficult to work with under cold, wet and/or freezing conditions. Placement of fill and/or asphalt/concrete must not be permitted on frozen soil, and the bearing soils or subgrade should not be allowed to freeze after the concrete is placed. All footing excavations should be protected from freezing conditions and maintained free of ponded water before asphalt/concrete placement. The footings should be cast as soon as possible after excavation is prepared and backfilled as soon as possible after the concrete has attained its strength.

Construction Safety

All excavations must comply with the requirements of OSHA 29 CFR, Part 1926, Subpart P "Excavations and Trenches." This document states that excavation safety is solely the responsibility of the contractor; the determination of SAFE slopes for excavation and trenches is to be made by the contractor's "competent person." Reference to this OSHA requirement should be included in the job specifications. The temporary excavation slopes greater than 5 feet in depth should conform to OSHA regulations. In general, such slopes should not be steeper than 1.5 horizontal to 1 vertical (OSHA Soil Type C), unless shoring is used.

The responsibility to provide safe working conditions on this site for earthwork, construction, or any associated operations, is not borne in any manner by NASHnal Soil Testing, LLC.

Field Observation and Testing

Proper observation and testing during the construction phase of this project is an integral part of our recommendations. On-site observation during site preparation, fill placement, compaction, and footing construction, should be done by qualified personnel from **OUR** office. Exposed soils in excavations for backfill should be tested by means of hand auguring, and with a Dynamic Cone Penetrometer (DCP) in sandy soils or a Static Cone Penetrometer (SCP) in clayey soils.

Proposed fill materials should be submitted to our lab for Proctor compaction tests, and tests to check compliance with our recommendations and project specifications. A representative number of field density tests should be taken in compacted fill to aid in judging its suitability. The building materials should be tested in accordance with the project specifications. We would be pleased to provide the testing services for this project.



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New Parking Lot at
11th & Commerce St., Lockport, IL
Project Number 2026-1301-01G
April 13, 2026

GENERAL QUALIFICATIONS

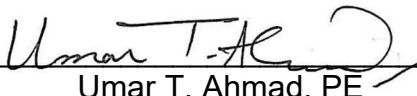
This report has been prepared based on the soil and groundwater conditions found in our borings and on the design data that you have related to us. This report is intended solely for this project at the specific locations identified in the Introduction and Scope of Services. If there are any changes in size, scope, elevation, structural loads, location, use or nature of the structure from those discussed in the introduction of this report, or if our understanding of the project is incorrect or incomplete, we should be given the opportunity to review or modify our recommendations. If changes are made in the design and we are not given the opportunity to review these changes relative to our recommendations and to respond in writing, or we are not provided with the opportunity to confirm the soil conditions are as expressed in this report during the construction of this project, our recommendations will not be considered valid. No specific efforts were performed to determine the thickness of the topsoil layer, the topsoil thickness given in our logs is an estimate. If the true thickness of topsoil is required, we recommend that numerous detailed hand augur probes be performed throughout this parcel.

For this geotechnical exploration, we drilled four (4) soil borings in the specified areas. Variations in the subsurface conditions may be found during construction, and it is probable that additional variations exist on the site that cannot be determined from our boring or the site reconnaissance. These variations, which could include greater or shallower depths of unsuitable soils than found at our borings, would not become apparent until the excavation is started. No warranty, express or implied, is presented in this report with respect to the soil and groundwater conditions on this site.

STANDARD OF CARE

The recommendations and opinions contained in this report are based on our interpretation of the subsurface conditions and represent our professional judgment. These judgments were determined in accordance with currently accepted engineering practices at this time and location, by professionals working under similar time and budget constraints. No other warranty is implied or intended.

Prepared by:


Umar T. Ahmad, PE
Registered Professional Engineer, Illinois
Registration # 062-055148



Expires 11/30/2027



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New Parking Lot at
11th & Commerce St., Lockport, IL
Project Number 2026-1301-01G
April 13, 2026

APPENDIX

SITE LOCATION DIAGRAM (Plate No. 1)

BORING LOCATION DIAGRAMS (Plate No. 2)

BORING LOGS (Plate No. 3 to 6)

KEY TO TEST DATA

CLASSIFICATION OF SOILS

NOTES ON PLACEMENT OF COMPACTED FILL

Plate No. 1

**New Parking Lot at 11th & Commerce Street
Lockport, IL-60441
Site Location Diagram**

**New Parking Lot at 11th & Commerce Street
Lockport, IL-60441
Boring Location Diagram**



23856 W. Andrew Rd, Unit 103, Plainfield,

BOREHOLE LOG

Number

B-1

Client

V3 Companies, Inc.

Plate 3

Location

New Parking Lot located at 11th and Commerce St. in Lockport, IL

Job Number

2026-1301-01G

Drill Rig Type

Geoprobe 7822

Sampler Type

Split Spoon (SS)

Boring Location

See Plate 2 (41°35'15.22"N, 88°03'32.47"W)

Boring Elevation (ft)

583

Date: 3/27/2026

Sample #	Sampling Method	Qp (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						0.5		FILL	6 inches of Clayey Sand & Gravel Fill	582.50
						1.0				582.00
						1.5			Yellowish Brown Sandy Gravel (SP-GP)	581.50
1	SS	N/A	8.0	N/A	7	2.0			Loose, Highly Weathered Altered Limestone	581.00
						2.5			Top of Bedrock	580.50
						3.0				580.00
						3.5		SP-GP		579.50
						4.0			Density Changes to Medium Dense	579.00
2	SS	N/A	9.0	N/A	19	4.5			Rippable Bedrock	578.50
						5.0				578.00
						5.5				577.50
						6.0				577.00
						6.5		ROCK	Yellowish Brown Bedrock	576.50
3	SS	N/A	8.0	N/A	80	7.0			Very Dense, Dry	576.00
						7.5			Rippable Bedrock	575.50
						8.0				575.00
						8.5				574.50
						9.0				574.00
						9.5				573.50
4	SS	N/A	1.0	N/A	50/1"	10.0			Extremely Dense	573.00

End of Boring at 10.0'

Water Level While Drilling : None

Water Level After Drilling : None

Cave In Depth : Open at 8.0'

Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability



23856 W. Andrew Rd, Unit 103, Plainfield,

BOREHOLE LOG

Number

B-2

Client

V3 Companies, Inc.

Plate 4

Location

New Parking Lot located at 11th and Commerce St. in Lockport, IL

Job Number

2026-1301-01G

Drill Rig Type

Geoprobe 7822

Sampler Type

Split Spoon (SS)

Boring Location

See Plate 2 (41°35'15.08"N, 88°03'31.78"W)

Boring Elevation (ft)

587

Date: 3/27/2026

Sample #	Sampling Method	Qp (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Drill Rig Type		Geoprobe 7822			
						Sampler Type		Split Spoon (SS)			
						Boring Location		See Plate 2 (41°35'15.08"N, 88°03'31.78"W)			
Boring Elevation (ft)						587		Date: 3/27/2026			
						Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)	
						0.5		FILL	11 inches of Clayey Sand & Gravel Fill	586.50	
						1.0					586.00
						1.5				Yellowish Brown Sandy Gravel (SP-GP)	585.50
1	SS	N/A	18.0	N/A	48	2.0		SP-GP	Dense, Highly Weathered Altered Limestone	585.00	
						2.5			Top of Bedrock	584.50	
						3.0				584.00	
						3.5				583.50	
						4.0		ROCK	Yellowish Brown Bedrock	583.00	
2	SS	N/A	5.0	N/A	50/5"	4.5			Extreamly Dense, Dry	582.50	
						5.0			Rippable Bedrock	582.00	
						5.5				581.50	
						6.0				581.00	
						6.5				580.50	
3	SS	N/A	1.0	N/A	50/1"	7.0				580.00	
						7.5				579.50	
						8.0				579.00	
						8.5				578.50	
						9.0				578.00	
						9.5				577.50	
4	SS	N/A	1.0	N/A	50/1"	10.0				577.00	

End of Boring at 10.0'

Water Level While Drilling : None

Water Level After Drilling : None

Cave In Depth : Open at 7.0'

Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability



23856 W. Andrew Rd, Unit 103, Plainfield,

BOREHOLE LOG

Number

B-3

Client	V3 Companies, Inc.	Plate 5
Location	New Parking Lot located at 11th and Commerce St. in Lockport, IL	
Job Number	2026-1301-01G	
Drill Rig Type	Geoprobe 7822	
Sampler Type	Split Spoon (SS)	
Boring Location	See Plate 2 ((41°35'14.84"N, 88°03'31.29"W)	
Boring Elevation (ft)	596	Date: 3/27/2026

Sample #	Sampling Method	Qp (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						0.5		AS	2 inches of Asphalt	595.50
						1.0		CONC	6 inches of Concrete	595.00
						1.5				
1	SS	N/A	15.0	N/A	4	2.0			Brown/Black Clayey Sand & Gravel (FILL) with Organic, Loose	594.50 666.00
						2.5		FILL		665.50
						3.0				665.00
						3.5				664.50
						4.0				
2	SS	N/A	6.0	N/A	1	4.5			Black Cinder & Top Soil Mix (FILL) Very Loose	664.00 663.50
						5.0		FILL		663.00
						5.5				662.50
						6.0				662.00
						6.5				
3	SS	N/A	4.0	N/A	50/4"	7.0			Yellowish Brown Bedrock Extreamly Dense, Dry	661.50 661.00
						7.5			Rippable Bedrock	660.50
						8.0				660.00
						8.5		ROCK		659.50
						9.0				659.00
						9.5				658.50
4	SS	N/A	2.0	N/A	50/2"	10.0				658.00

End of Boring at 10.0'

Water Level While Drilling : None
Water Level After Drilling : None
Cave In Depth : Open at 7.0'

Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability



23856 W. Andrew Rd, Unit 103, Plainfield,

BOREHOLE LOG

Number

B-4

Client V3 Companies, Inc.

Plate 6

Location New Parking Lot located at 11th and Commerce St. in Lockport, IL

Job Number 2026-1301-01G

Drill Rig Type Geoprobe 7822

Sampler Type Split Spoon (SS)

Boring Location See Plate 2 (41°35'15.50"N, 88°03'31.66"W)

Boring Elevation (ft) 587

Date: 3/27/2026

Sample #	Sampling Method	Qp (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						0.5		FILL	9 inches of Brown Clayey Sand & Gravel Fill	667.50
						1.0				667.00
						1.5			Yellowish Brown Bedrock	666.50
1	SS	N/A	15.0	N/A	48	2.0			Dense, Dry	666.00
						2.5			Rippable Bedrock	665.50
						3.0		ROCK		665.00
						3.5				664.50
						4.0			Density Changes to Very Dense	664.00
2	SS	N/A	14.0	N/A	55	4.5			Rippable Bedrock	663.50
						5.0				663.00
						5.5				662.50
						6.0				662.00
						6.5				661.50
3	SS	N/A	3.0	N/A	50/3"	7.0			Extreamly Dense	661.00
						7.5				660.50
						8.0				660.00
						8.5				659.50
						9.0				659.00
						9.5				658.50
4	SS	N/A	1.0	N/A	50/1"	10.0				658.00

End of Boring at 10.0'

Water Level While Drilling : None

Water Level After Drilling : None

Cave In Depth : Open at 8.0'

Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability

KEY TO TEST DATA

DRILLING & SAMPLING SYMBOLS:

SL = SS with Liner
 SS = Split Spoon — 1" I.D., 2" O.D., unless otherwise noted
 ST = Shelby Tube — 2" O.D., unless otherwise noted
 PA = Power Auger
 DB = Diamond Bit — NX: BX: AX
 AS = Auger Sample
 JS = Jar Sample
 VS = Vane Shear

ST = 3" Shelby Tube
 HS = Hollow Stem Auger
 WS = Wash Sample
 FT = Fish Trail
 RB = Rock Bit
 BS = Bulk Sample
 PM = Pressuremeter test—in situ

Standard "N" Penetration = Blows per foot of a 140 pound hammer falling 30 inches on a 2-inch OD split spoon, except where noted.

WATER TABLE

MEASUREMENT SYMBOLS

WL = Water Level
 WCI = Cave In
 DCI = Dry Cave In
 WS = While Sampling
 WD = While Drilling
 BC = Before Casing Removal
 ACR = After Casing Removal
 AB = After Boring

Water levels indicated on the boring logs are the levels measured in the boring at the times indicated. In pervious soils, the indicated elevations are considered reliable ground water levels. In impervious soils, the accurate determination of ground water elevations is not possible even after several days observation, and additional evidence of ground water elevations must be sought.

GRADATION DESCRIPTION & TERMINOLOGY

Coarse Grained or Granular Soils have more than 50% of their dry weight retained on a #200 sieve; they are described as: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are described as: clays or clayey silts if they are cohesive, and silts if they are non-cohesive. In addition to gradation, granular soils are defined on the basis of their relative in-place density and fine grained soils on the basis of their strength or consistency, and their plasticity.

<u>Major Component Of Sample</u>	<u>Size Range</u>	<u>Descriptive Term(s) (Of Components Also Present in Sample)</u>	<u>Percent of Dry Weight</u>
Boulders	Over 8 in. (200mm)	Trace	1 — 9 .
Cobbles	8 in. to 3 in. (200mm to 75mm)	Little	10 — 19
Gravel	3 in. to #4 sieve (75mm to 2mm)	Some	20 — 34
Sand	#4 to #200 sieve (2mm to .074mm)	And	35 — 50
Silt	Passing #200 sieve (0.074mm to 0.005mm)		
Clay	Smaller than 0.005mm		

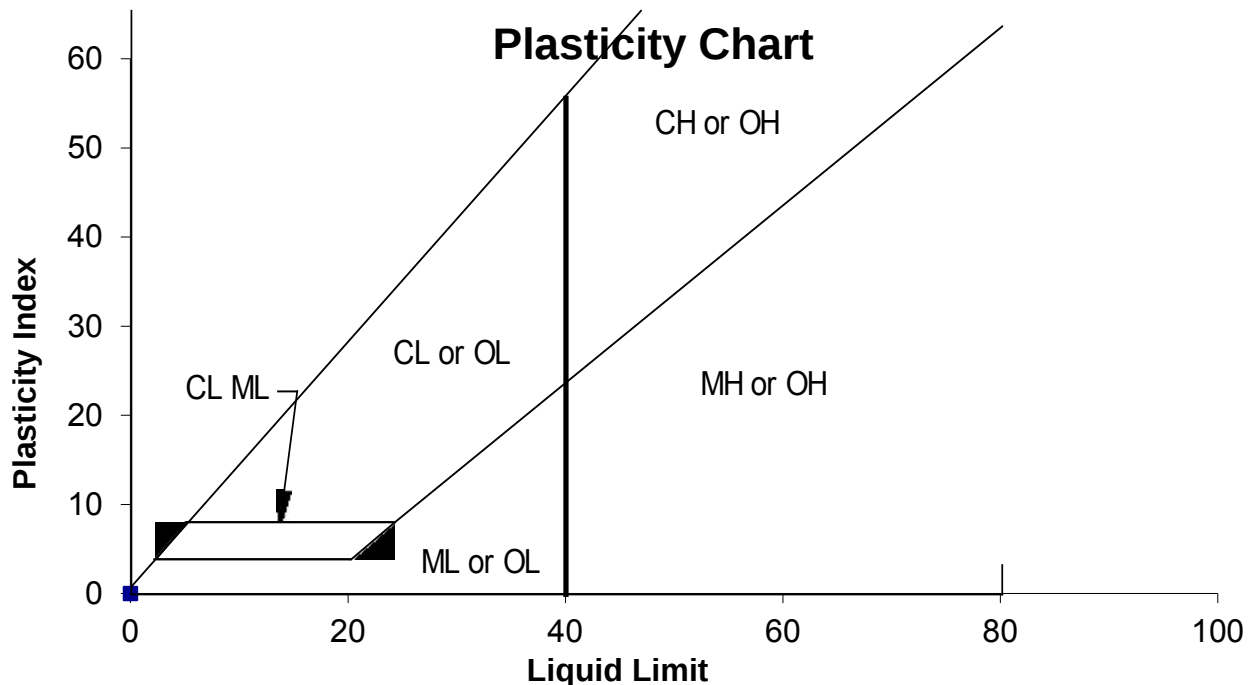
CONSISTENCY OF COHESIVE SOILS

RELATIVE DENSITY OF GRANULAR SOILS

<u>Unconfined Comp. Strength, Qu, tsf</u>	<u>Consistency</u>	<u>N — Blows/ft.</u>	<u>Relative Density</u>
<0.25 —	Very Soft	0 — 3	Very Loose
0.25 — 0.49	Soft	4 — 9	Loose
0.50 — 0.99	Medium (Firm)	10 — 29	Medium Dense
1.00 — 1.99	Stiff	30 — 49	Dense
2.00 — 3.99	Very Stiff	50 — 80	Very Dense
4.00 — 8.00	Hard	80 +	Extremely Dense
>8.00	Very Hard		

UNIFIED SOIL CLASSIFICATION CHART

CRITERIA FOR ASSIGNING GROUP NAMES & GROUP SYMBOLS USING LABORATORY TEST RESULTS					Soil Classification	
					Group Symbol	Group Name
COURSE-GRAINED SOILS More than 50% retained on #200 Sieve	GRAVELS More than 50% of course fractions are retained on #4 sieve	CLEAN GRAVELS Less than 5% fines	$Cu \leq 4$ and $1 \leq Cc \leq 3$	GW	Well Graded Gravel	
			$Cu < 4$ and/or $1 > Cc > 3$	GP	Poorly Graded Gravel	
		GRAVELS With more than 12% fines	Fines classify as ML or MH	GM	Silty Gravel	
			Fines classify as CL or CH	GC	Clayey Gravel	
	SANDS 50% or more of course fractions passes #4 sieve	CLEAN SANDS Less than 5% fines	$Cu \leq 6$ and $1 \leq Cc \leq 3$	SW	Well Graded Sand	
			$Cu < 6$ and/or $1 > Cc > 3$	SP	Poorly Graded Sand	
		SANDS With more than 12% fines	Fines classify as ML or MH	SM	Silty Sand	
			Fines classify as CL or CH	SC	Clayey Sand	
FINE-GRAINED SOILS 50% or More Passed the #200 Sieve	SILTS & CLAYS Liquid Limit Lower than 50%	Inorganic	$PI > 7$ and plots on or above "A" line	CL	Non to Low Plasticity Clay	
			$PI < 4$ and plots below "A" line	ML	Silt	
		Organic	$\frac{\text{Liquid Limit (Oven Dried)}}{\text{Liquid Limit (Not Dried)}} < 0.75$	OL	Organic Clay or Silt	
	SILTS & CLAYS Liquid Limit 50% or Higher	Inorganic	PI plots on or above "A" line	CH	Highly Plastic Clay	
			PI plots below "A" line	MH	Elastic Silt	
		Organic	$\frac{\text{Liquid Limit (Oven Dried)}}{\text{Liquid Limit (Not Dried)}} < 0.75$	OH	Organic Clay or Silt	
	Highly Organic Soils		Primarily organic material, darker and with organic odor		PT	Peat



NOTES ON PLACEMENT OF COMPACTED FILL SOIL

GENERAL

The placement of compacted fill for support of foundations, floor slabs, pavements, or earth structures should be carried out by an experienced excavator with the proper equipment. The excavator must be prepared to adapt his procedures, equipment, and materials to the type of project, to weather conditions, and the structural requirements of the architect and engineer. Methods and materials used in summer may not be applicable in winter; fill used in dry excavations may not be suitable in wet excavations or during periods of precipitation; proposed fill soil may require wetting or drying for proper placement and compaction. Conditions may also vary during the course of a project or in different areas of the site. These needs should be addressed in the project drawings and specifications.

EXCAVATION/BACKFILL BELOW THE WATER TABLE

It is common to have to excavate and replace unsuitable soils below the water table for site correction. As a general rule of prudent construction technique, we recommend that excavation/backfill below the water table not be permitted, unless the excavation is dewatered. Numerous problems can develop when this procedure is attempted without dewatering.

- Inability of the equipment operators and soil technicians to observe that all unsuitable soil/materials have been removed from the base of the excavation.
- Inability to observe and measure that proper lateral oversizing is provided.
- Inability to prevent or correct sloughing of excavation sidewalls, which can result in unsuitable soils trapped within the select backfill.
- Inability of the contractor to adequately and uniformly compact the backfill.
- Possibility of disturbance of the suitable soils at the base of the excavation.

The dewatering methods, normally chosen at the contractor's option, should follow prudent construction practice. Excavations in clay can often be dewatered with sump pits and pumps; this technique would not be applicable for excavation extending into permeable granular soil, especially for depths significantly below the water table. Dewatering granular soils should normally be done with well points or wells. When dewatering is needed, we strongly recommend that the procedures be discussed at pre-bid or pre-construction meetings. The architect and engineer should review the dewatering technique chosen by the contractor before construction starts; it should not be left until excavation is under way.

The selection of proper backfill materials is important when working in dewatered excavations. Even with dewatering, the base is usually wet and the contractor must be careful not to disturb the base. We recommend that the first lifts of backfill be a clean medium to coarse grain sand with less than 5% passing the #200 sieve. The use of silty sand, clayey sand, or cohesive/semi-cohesive soils is not recommended for such situations. The excavator should be required to submit samples of the proposed material(s) he plans to use as backfill before the fill is hauled to the site, so that it can be tested for suitability.

WINTER EARTHWORK CONSTRUCTION

Winter earthwork presents its own range of problems, which must be overcome; the situation may be complicated by the need for dewatering discussed above.

During freezing conditions, the fill used must not be frozen when delivered to the site. It also must not be allowed to freeze during or after compaction. Since the ability to work the soil while keeping it from freezing depends in part on the soil type, the specifications should require the contractor to submit a sample of his proposed fill before construction starts, for laboratory testing. If the soil engineer and structural engineer determine that it is not suitable, it should be rejected. In general, silty sand, clayey sand, and cohesive/semi-cohesive soils should not be used as fill under freezing conditions. All frozen soil of any type should be rejected for use as compacted fill.

It is important that compacted fill be protected from freezing after it is placed. The excavator should be required to submit a plan for protecting the soil. The plan should include details on the type and amount of material (straw, blankets, extra loose fill, topsoil, etc.) proposed for use as frost protection. The need to protect the soil from freezing is ongoing throughout construction and applies both before and after concrete is placed, until backfilling for final frost protection is completed. Foundations placed on frozen soil can experience heaving and significant settlement, rotation, or other movement as the soil thaws. Such movement can also occur if the soil is allowed to freeze after the concrete is placed and then allowed to thaw. The higher the percentage of fines (clay and silt, P-200 material) in the fill, the more critical is the need for protection from freezing.



Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: 11th Street and Commerce Street Parking Lot Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

Northeast Corner of 11th Street and West Commerce Street

City: Lockport State: IL Zip Code: 60441

County: Will Township: Lockport

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.58757 Longitude: -88.05888

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☒ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: NA BOW: NA BOA: NA

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): 500

II. Owner/Operator Information for Source Site

Site Owner

Name: _____ City of Lockport

Street Address: _____ 222 E 9th Street

PO Box: _____

City: _____ Lockport State: IL

Zip Code: 60441 Phone: 815-838-0549

Contact: Jonathan Shuptar (V3 Companies)

Email, if available: jshuptar@v3co.com

Site Operator

Name: _____

Street Address: _____

PO Box: _____

City: _____ State: _____

Zip Code: _____ Phone: _____

Contact: _____

Email, if available: _____

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

See Attachment 1

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

See Attachment 1

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Jonathan Shuptar, P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: V3 Companies
Street Address: 7325 Janes Ave
City: Woodridge State: IL Zip Code: 60517
Phone: 517.420.8481

Jonathan Shuptar, P.G.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

06/11/2026

Date:





Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation (LPC-663)

DATE: 06/11/2026

SOURCE OWNER: City of Lockport

OPERATOR: TBD

PROJECT: 11th Street and Commerce Street Parking Lot

DESCRIPTION OF SOURCE AND PIP EVALUATION:

Soil spoils will be generated from construction activities associated with the future parking lot proposed at the northeast corner of Commerce Street and 11th Street in Lockport, Will County, Illinois. The proposed project includes the removal of soils, pavement and existing foundations, and the installation of a parking lot. Additional construction activities include storm sewer, sanitary sewer, and electrical service installation. Properties adjacent to the project include commercial business operations and a railroad.

Historic fire insurance Sanborn maps and aerial images indicate the former presence of a filling station with 3 underground storage tanks on the property. The filling station and USTs were located in the southeastern corner of the property along IL 171/State Street. There is no documentation of spills or Leaking Underground Storage Tank (LUST) incidents for this property. However, the potential exists for unidentified releases of contaminants to the subsurface based on filling and service station operations. Contaminants of concern associated with gas station operations include BTEX, PNAs, and metals.

Based on the historic and environmental regulatory document review of the Source Site and surrounding properties, the Source Site is considered a PIP. The documents used as part of the historic and environmental regulatory review are attached.

SECTION III BASIS FOR CERTIFICATION AND ATTACHEMENTS:

a) A Description of soil sample point and how they were determined to be sufficient in number and appropriately located [35 Ill. Adm. Code 1100.610(a)]:

Considering the proposed excavation and the location of the former filling operations, it was determined that three soil samples (**SB-01**, **SB-02** and **SB-04**) would be sufficient to characterize project soils for this CCDD soil evaluation (See **Figure 1**). For the purposes of this CCDD soil evaluation, these soil samples were analyzed for a broad list of common contaminants of concern (COCs). Sample analysis included the following:

SB-01, SB-02 and SB-04:

- Volatile Organic Compounds (VOCs)
- Polynuclear Aromatics (PNAs)
- Resource Conservation and Recovery Act (RCRA) Metals (8)
- Synthetic Precipitation Leaching Procedure (SPLP) metals
- pH

The samples were collected by a V3 Environmental Scientist using standard operating procedures for environmental soil sampling. The samples were packaged into clean laboratory provided jars and stored in a cooler on ice. The samples were transported by V3 to Pace Analytical Services, LLC, an IEPA ELAP Accredited Laboratory for analysis.

b) Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Analytical sample results from **SB-01**, **SB-02** and **SB-04** were compared to the Maximum Allowable Concentrations (MACs) established in Title 35: Subtitle J: Chapter I: Part 1100. Below is a summary of the sample results:

- VOCs were not detected in any of the borings.
- Multiple PNAs were detected in all sampled borings, but at concentrations below the MACs.
- Multiple metals were detected were detected in all sampled borings. Sample **S-01 (2-3)** detected total lead, total selenium and SPLP lead at concentrations that exceed the MAC.
- The pH in **S-01 (2-3)** was outside the acceptable range of 6.25 and 9.0.
- All other samples had pH within the acceptable range of 6.25 and 9.0.

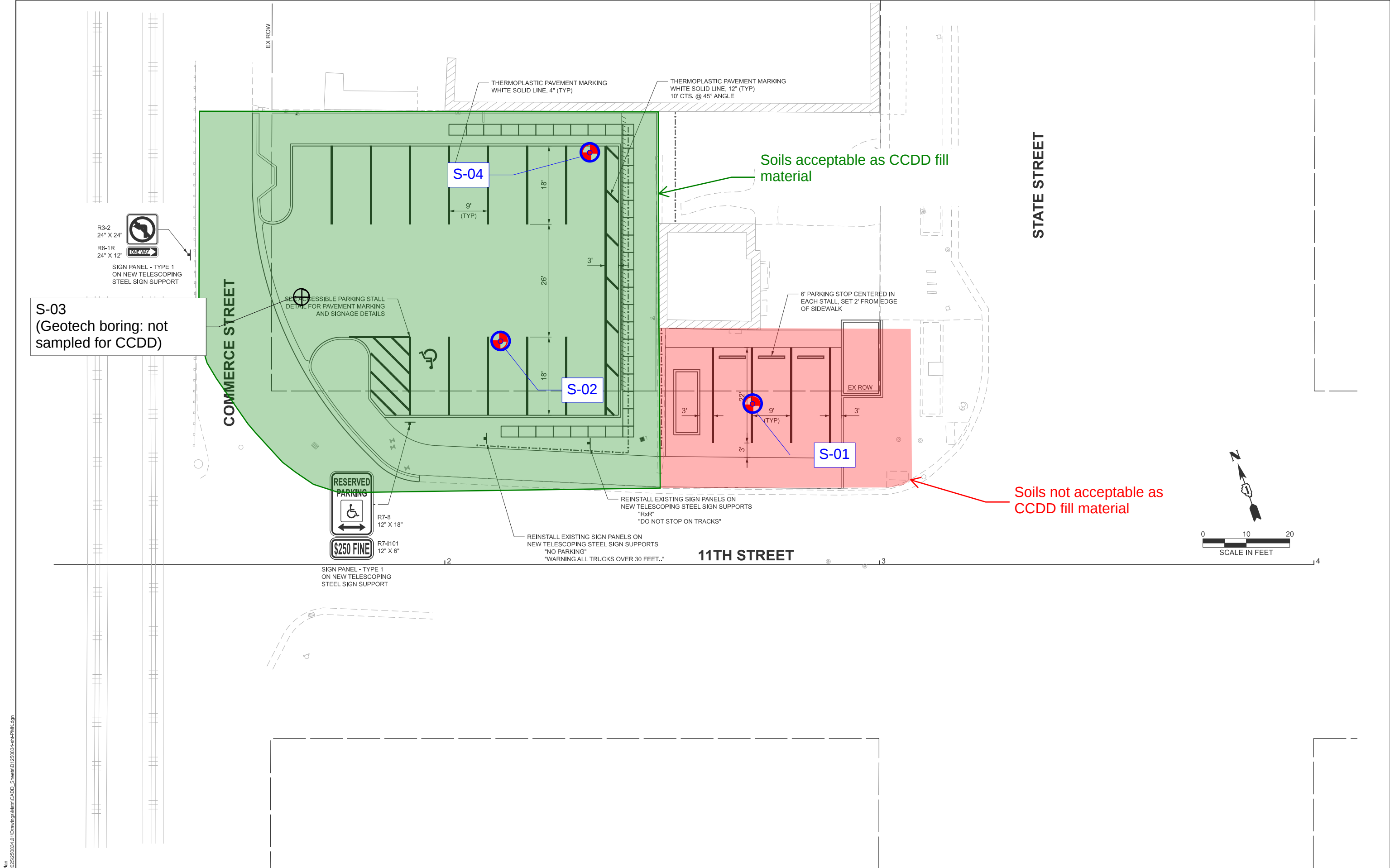
Analytical data tables comparing soil results to appropriate MAC values are provided in **Tables 1** through **3**.

Soils in the vicinity of **S-01 (2-3)** had lead concentrations and pH values which did not meet the MACs. Consequently, the soils in the vicinity of **S-01 (2-3)** are excluded from this soil certification. The analytical data results from **SB-02** and **SB-04** indicate the remaining project soils from the Source Site meet the criteria of Title 35: Subtitle J: Chapter I: Part 1100 for acceptance as CCDD fill material. The proposed exclusion zone for these soils is presented on **Figure 1**.

FACILITY ACCEPTANCE AND UNCHARACTERIZED CONDITIONS:

Demonstration of compliance with CCDD regulations and achievement of the Maximum Allowable Concentrations (MACs) does not guarantee soils and fill material will be accepted at all CCDD/Uncontaminated Soil Fill Operations (USFO). CCDD/USFO facilities are privately operated facilities and reserve the right to reject fill material on any criteria. This CCDD soil evaluation was conducted in accordance with applicable Illinois clean fill regulations and general industry standards. It is the earthwork contractor's responsibility to coordinate acceptance with the selected facility based on this documentation. CCDD/USFO facilities may have acceptance criteria which is more stringent than the minimum requirements of Title 35: Subtitle J: Chapter I: Part 1100. Any additional sampling or soil evaluation required by a contractor selected CCDD/USFO facility is the responsibility of the contractor, and can be provided by V3 at additional cost.

Environmental, geological, and geotechnical conditions can vary from those encountered at times and locations where data was obtained and may result in uncertainty with respect to the interpretation of these conditions, despite the use of standard professional care. V3 has used a level of care ordinarily exercised by professional consultants acting under similar circumstances in performing these services. Should conditions inconsistent with the findings contained within this report be encountered during the course of the project, project soils should be reevaluated.





State of Illinois Business Enterprise Program for Minorities, Women, and Persons with Disabilities Utilization Plan

**STATE OF ILLINOIS BUSINESS ENTERPRISE PROGRAM
UTILIZATION PLAN**

UTILIZATION PLAN PART I: COMMITMENT AND SIGNATURE

The undersigned Vendor submits this Utilization Plan as part of its bid or offer in accordance with the requirements of solicitation # _____ and the requirements of the Business Enterprise Program (BEP). The solicitation contains a goal that _____% of the value of the contract will be performed by BEP certified vendors as defined by the Commission on Equity and Inclusion (CEI). The solicitation contains a goal that _____% of the value of the contract will be performed by Veteran Small Business certified vendors (VSB) as defined by the Commission on Equity and Inclusion.

The Utilization Plan consists of the following parts, each of which must be completed and returned as instructed in this Commitment. No alterations of these forms will be permitted. One set of Parts I-IV must be completed for the BEP goal and one set must be completed for the VSB goal:

Part I: Vendor Commitment (with Signature)

Part II: Subcontractor Participation Agreement(s)

Part III: Good Faith Effort (Checklist, Contact Log, and Documentation)

Part IV: Utilization Plan Terms and Conditions (These terms and conditions apply to all options below but do not need to be returned.)

The undersigned Vendor acknowledges that (1) Vendor has read, understands, and agrees to BEP policies, rules, and procedures as defined in the Terms and Conditions in Part IV of this document, and (2) Vendor hereby affirms (**select one** of the options below):

- ☐ Vendor is a BEP certified firm and plans to fully meet the goal through self-performance or Vendor is a VSB certified firm and plans to fully meet the VSB goal through self-performance. (Return this Part I Signature Page only.)
- ☐ Vendor has identified BEP and VSB certified subcontractor(s) to fully meet the established BEP and VSB goals. Only BEP certified subcontractors may be used to meet the BEP goal and only VSB certified subcontracts may be used to meet the VSB goal if Vendor intends to meet the established goal in whole or in part through the use of subcontractors. Subcontractors that are both BEP and VSB certified may only be counted towards the BEP or VSB goal. (Return this Part I Signature page and signed Part II Subcontractor Participation Agreement(s) to equal or exceed the goal.)
- ☐ Vendor cannot fully meet the goal but has made Good Faith Effort towards meeting the goal, and hereby requests a waiver or reduction of the goal to _____% based on the completed Good Faith Effort. (If requesting a waiver, return this Part I Signature Page and completed Part III Good Faith Effort. If requesting a reduction, return this Part I Signature Page, Part II signed Subcontractor Participation Agreement(s), and completed Part III Good Faith Effort.)

The undersigned Vendor understands that all subcontractors identified in this Utilization Plan and Participation Agreement(s) must be certified with the Illinois Commission on Equity and Inclusion (CEI) BEP at the time of submission of all bids/offers and shall perform commercially useful functions as defined in Part IV of this Utilization Plan. **We understand that compliance with this Utilization Plan is a mandated part of this solicitation and that this Utilization Plan will become a**

**STATE OF ILLINOIS BUSINESS ENTERPRISE PROGRAM
UTILIZATION PLAN**

part of the contract, if awarded. Failure to carry out the requirements of this Utilization Plan is a material breach of the resulting contract, which may result in the termination of the contract or such other remedy as the Agency/University deems appropriate.

Vendor Name and d/b/a: _____

Signature: _____ Print: _____

Date: _____

Title: _____ Email Address: _____

Telephone: _____

**STATE OF ILLINOIS BUSINESS ENTERPRISE PROGRAM
UTILIZATION PLAN**

UTILIZATION PLAN PART II: PARTICIPATION AGREEMENT (Letter of Intent)

Instructions: The Prime Vendor is required to submit a separate, signed and **fully completed Participation Agreement** from each Business Enterprise Program (BEP) certified vendor or Veteran Small Business certified vendor (VSB). **Once signed and submitted with the bid/offer, this Participation Agreement, along with the other Parts of this Utilization Plan, will become a mandated part of the contract, if awarded.** The Prime Vendor shall not prohibit or otherwise limit the BEP/VSB certified vendor(s) from providing subcontractor quotes to other potential bidders/offers.

Project Name: _____ **Project/Solicitation Number:** _____

Name of Prime Vendor: _____

Address: _____

City, State and Zip: _____

Telephone: _____ Fax: _____ Email: _____

Vendor's Contact responsible for compliance with this Participation Agreement:

Name of BEP/VSB Certified Vendor: _____

Type of Certified Vendor: ☐ BEP ☐ VSB

Address: _____

City, State and Zip: _____

Telephone: _____ Fax: _____ Email: _____

BEP/VSB Vendor's Contact responsible for compliance with this Participation Agreement:

Type of Agreement: ☐ Services ☐ Supplies ☐ Both Services and Supplies

(a) Proposed % of Contract to be performed by the BEP/VSB Certified Vendor _____%

NOTE: The Prime Vendor must indicate the percentage of the estimated contract award that will be subcontracted to the certified BEP/VSB Vendor.

(b) Anticipated start date of the Certified BEP/VSB Vendor: _____.

(c) This participation agreement shall have a term of _____ to _____, with a total period of _____ years and _____ months, including renewals, change orders or extensions to the underlying contract.

(d) Description of work to be performed or goods/equipment to be provided by the BEP certified vendor. **This description must include identified Institute for Public Procurement (NIGP) Class or Class Item codes.** All Participation Agreements shall be subject to Agency/University approval. Any changes involving or affecting the identified BEP/VSB certified vendor, scope(s)

THE UNDERSIGNED PARTIES FURTHER AGREE that once signed and submitted with the bid/offer, this Participation Agreement, along with the other Parts of this Utilization Plan, will become a material part of the contract, and the BEP/VSB certified vendor will perform the scope of work for the percentage as indicated above. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

Title

**STATE OF ILLINOIS BUSINESS ENTERPRISE PROGRAM
UTILIZATION PLAN**

**UTILIZATION PLAN PART III: DEMONSTRATION OF GOOD FAITH EFFORTS TO
ACHIEVE GOAL AND REQUEST FOR WAIVER**

If the BEP/VSB participation goal will not be achieved in whole or part, the Good Faith Efforts Procedures outlined in Parts III and IV of this document will be used to evaluate submitted Utilization Plans. A Vendor providing Good Faith Effort documentation and a request for waiver must complete and submit Part III of this Utilization Plan in its entirety in addition to its bid/offer. Failure to submit the Good Faith Effort Contact Log, checklist, and supporting documentation in its entirety shall render Vendor's bid or offer non-responsive and cause it to be rejected.

Below is a checklist of actions that will be used to evaluate a Vendor's Demonstration of Good Faith Efforts and Request for Waiver. **Please check the actions which you have completed.** If any of the following actions are not completed, please attach a detailed written explanation indicating why such action was not completed. If any other efforts were made to obtain BEP certified vendor participation, in addition to the items listed below, attach a detailed description of such efforts.

- ☐ Utilize the website: <https://ceibep.diversitysoftware.com/?TN=ceibep> to identify BEP/VSB certified vendors within the respective NIGP Class or Class Item code(s) on the solicitation documents. At a minimum, email all listed vendors with project specifications sufficient to build a quote, then solicit quotes from all vendors who express an interest with follow-up emails and telephone calls. Documentation of these efforts must be submitted as evidence, including copies of all e-mails sent.

- ☐ Solicit through all reasonable and available means (e.g., attendance at a vendor conference, advertising, written notices) the interest of BEP/VSB certified vendors that have the capability to perform the work of the contract. Vendor must solicit this interest with sufficient advance time to allow the BEP/VSB certified vendors to respond to the solicitation. Vendor must determine with certainty if the BEP/VSB certified vendors are interested by taking appropriate steps to follow up initial solicitations and encourage them to submit a bid or proposal, providing them with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding promptly to the solicitation.

- ☐ Select portions of the work to be performed by BEP/VSB certified vendors to increase the likelihood that the goal will be achieved. This includes, where appropriate, unbundling contract work items into economically feasible units to facilitate BEP/VSB certified vendor participation, even when Vendor might otherwise prefer to perform these work items with its own forces.

- ☐ Make a portion of the work available to BEP/VSB certified vendors by selecting portions of the work or needed material based on the availability of BEP/VSB vendors.

**STATE OF ILLINOIS BUSINESS ENTERPRISE PROGRAM
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- ☐ Negotiate in good faith with interested BEP/VSB certified vendors. Evidence of such negotiation must include the contacted names, mailing addresses, email addresses, and telephone numbers of BEP/VSB certified vendors that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for BEP certified vendors to perform the work. A Vendor using good business judgment may consider many factors in negotiating with BEP/VSB certified vendors and may take a firm's price and capabilities into consideration. The fact that there may be some additional costs involved in finding and using BEP/VSB certified vendors may not, in itself, be a sufficient reason for a Vendor's failure to meet the goal, as long as such costs are reasonable. Vendors are not required to accept higher quotes from BEP/VSB certified vendors if the price difference is excessive or unreasonable.
- ☐ Thoroughly investigate the capabilities of BEP/VSB certified vendors and do not reject them as unqualified without documented reasons. BEP/VSB certified vendors' memberships in specific groups, organizations, associations or political/social affiliations are not legitimate causes for the rejection or non-solicitation of bids and proposals in Vendor's efforts to meet the goal.
- ☐ Where subcontractor capacity and/or access to capital prevents participation, make efforts to assist in obtaining available resources such as State of Illinois lending programs and the prime's lending, capital and bonding networks.
- ☐ Make efforts to assist interested BEP/VSB certified vendors in obtaining necessary equipment, supplies, materials, and related assistance or services.
- ☐ Follow best practices when conducting a Good Faith Effort. Best practices can be found on the BEP website at [https://cei.illinois.gov/content/dam/soi/en/web/cei/documents/GOOD FAITH EFFORTS GUIDANCE.pdf](https://cei.illinois.gov/content/dam/soi/en/web/cei/documents/GOOD_FAITH Efforts_GUIDANCE.pdf).

Use this log, if you are requesting a Good Faith Effort waiver, to document **all** contacts and responses (i.e., telephone, email, fax, etc.) regarding the solicitation of BEP/VSB certified vendors for the scope of work within the specific NIGP Class Item commodity/service code(s) selected. It is not necessary to show contacts with BEP certified vendors who are identified on the Participation Agreement(s). **Keep and submit copies of all emails sent and received from prospective BEP/VSB vendors. Include a copy of the NIGP Class and Class Item commodity/service code list and/or scope of work you used to solicit prospective BEP/VSB vendors to perform.** Duplicate this Log as necessary. Do not limit your contacts to the number of spaces shown below. **The Agency/University established the BEP/VSB goal in the solicitation using NIGP Class and Class Item commodity/service code(s) representing the scope of work. All BEP/VSB certified vendors identified by these NIGP Class and Class Item commodity/service code(s) must be contacted by email and phone to satisfy the Good Faith Effort requirements.** Vendors are found in the NIGP Class and Class Item commodity/service code(s) search on the BEP/VSB Vendor Database located at <https://ceibep.diversitysoftware.com/?TN=ceibep>.

Agency/University Supplied NIGP Class and Class Item Codes (Required):	*Other NIGP Class and Class Item Codes Utilized by Vendor (Optional):
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[illegible]

**STATE OF ILLINOIS BUSINESS ENTERPRISE PROGRAM
UTILIZATION PLAN**

UTILIZATION PLAN PART IV: TERMS OF UTILIZATION

DEFINITIONS:

“Agency” shall be defined as any State Agency, Board, or Commission under the jurisdiction of the Governor of the State of Illinois.

“University” shall be defined as any University, Department, public institution of higher education, and/or community college district within the State of Illinois.

"Business owned by a person with a disability" or "PBE" means a business concern that is at least 51% owned by one or more persons with a disability and the management and daily business operations of which are controlled by one or more of the persons with disabilities who own it. A not-for-profit agency for persons with disabilities as defined in Section 45-35 of the Illinois Procurement Code is also considered a "business owned by a person with a disability."

"Certification" means a determination made by the Council or by one delegated authority from the Council to make certifications, or by a State agency with statutory authority to make such a certification, that a business entity is a business owned by a minority, woman, or person with a disability for whatever purpose. A business owned and controlled by women shall be certified as a "woman owned business". A business owned and controlled by women who are also minorities shall be certified as both a "woman owned business" and a "minority owned business".

"Commercially Useful Function" means responsibility for the execution of a distinct element of the work of the contract, which is carried out by actually performing, managing, and supervising the work involved, evidencing the responsibilities and risks of a business owner such as negotiating the terms of (sub)contracts, taking on a financial risk commensurate with the contract or its subcontract, responsibility for acquiring the appropriate lines of credit and/or loans, or fulfilling responsibilities as a joint venture partner as described in the joint venture agreement.

“Compliance” means that a contractor has correctly implemented the requirements of this Utilization Plan.

“Contract Specific Goals” means the goals established under the Agency/University’s supplier diversity program that are based upon relevant factors, including, but not limited to, the availability of diverse businesses in the scopes of work of the contract.

“Contractor” means any person or business entity that has entered into a contract with the Agency/University, and includes all partners, affiliates, and joint ventures of such person or entity.

"Control" means the exclusive or ultimate and sole control of the business including, but not limited to, capital investment and all other financial matters, property, acquisitions, contract negotiations, legal matters, officer-director-employee selection and comprehensive hiring, operating responsibilities, cost-control matters, income and dividend matters, financial transactions and rights of other shareholders or joint partners. Control shall be real, substantial and continuing, not pro forma. Control shall include the power to direct or cause the direction of the management and policies of the business and to make the day-to-day as well as major decisions in matters of policy, management and operations. Control shall be exemplified by possessing the requisite knowledge

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and expertise to run the particular business and control shall not include simple majority or absentee ownership.

"Council" means the Business Enterprise Council for Minorities, Women and Persons with Disabilities.

"Diverse Firms" shall mean businesses owned by minorities, women, and persons with disabilities. Also to include, qualified service-disabled veteran-owned small businesses and qualified veteran-owned small businesses.

"Woman" shall mean a person who is a citizen or lawful permanent resident of the United States and who is of the female gender.

"Woman-owned business" of "WBE" means a business concern which is at least 51% owned by one or more women, or, in the case of a corporation, at least 51% of the stock in which is owned by one or more women; and the management and daily business operations of which are controlled by one or more of the women who own it.

"Good Faith Efforts" means actions undertaken by a bidder or contractor to achieve a Contract Specific Goal by its scope, intensity, and appropriateness to the objective, that can reasonably be expected to fulfill the program's requirements.

"Joint Venture" means an association of a diverse firm and one or more other firms to carry out a single, for-profit business enterprise, for which each joint venture partner contributes property, capital, efforts, skills and knowledge, and in which the diverse firm is responsible for a distinct, clearly defined portion of the work of the contract and whose share in the capital contribution, control, management, risks, and profits of the joint venture are commensurate with its ownership interest.

"Manufacturer" refers to a company that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.

"Minority-owned business" or "MBE" means a business concern which is at least 51% owned by one or more minority persons, or in the case of a corporation, at least 51% of the stock in which is owned by one or more minority persons; and the management and daily business operations of which are controlled by one or more of the minority individuals who own it.

"Minority person" shall mean a person who is a citizen or lawful permanent resident of the United States and who is any of the following:

(a) American Indian or Alaska Native (a person having origins in any of the original peoples of North and South America, including Central America, and who maintains tribal affiliation or community attachment).

(b) Asian (a person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, including, but not limited to, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam).

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(c) Black or African American (a person having origins in any of the black racial groups of Africa). Terms such as "Haitian" or "Negro" can be used in addition to "Black or African American".

(d) Hispanic or Latino (a person of Cuban, Mexican, Puerto Rican, South or Central

(e) American, or other Spanish culture or origin, regardless of race).

(f) Native Hawaiian or Other Pacific Islander (a person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands).

"NIGP Class and Class Item Codes" identify the scope(s) of work as defined by the National Institute of Governmental Procurements. This five-digit code establishes and defines the detailed scope(s) of work for the contract. The first three digits of the NIGP code represents the Class or broad category of the work to be performed, and the second two digits of the NIGP code identify a more specific focus of work within the Class category.

"Owned" means having all the customary incidents of ownership, including the right of disposition, and the sharing in all risks and profits commensurate with the degree of ownership interest.

"Person with a disability" means a person who is a citizen or lawful resident of the United States and is a person qualifying as being disabled under subdivision (Illinois Compiled Statutes 30 ILCS 575/2 subsection A).

"Qualified service-disabled veteran" means a veteran who has been found to have 10% or more service-connected disability by the United States Department of Veterans Affairs or the United States Department of Defense.

"Qualified service-disabled veteran-owned small business" or "SDVOSB" means a small business (i) that is at least 51% owned by one or more qualified service-disabled veterans living in Illinois or, in the case of a corporation, at least 51% of the stock of which is owned by one or more qualified service-disabled veterans living in Illinois; (ii) that has its home office in Illinois; and (iii) for which items (i) and (ii) are factually verified annually by the Commission on Equity and Inclusion.

"Qualified veteran-owned small business" or "VOSB" means a small business (i) that is at least 51% owned by one or more qualified veterans living in Illinois or, in the case of a corporation, at least 51% of the stock of which is owned by one or more qualified veterans living in Illinois; (ii) that has its home office in Illinois; and (iii) for which items (i) and (ii) are factually verified annually by the Commission on Equity and Inclusion.

"Regular Dealer" means a business that owns, operates, or maintains a store, warehouse, or other establishment in which the supplies, equipment, or goods (excluding software licenses) of the general character required for the Procurement are bought, kept in stock, and regularly sold or leased in the usual course of business. To be a Regular Dealer, the business must be an established business that engages, as its principal business and under its own name, in the Procurement and sale or lease of the products in question. A business may be a Regular Dealer in such bulk items as petroleum products, steel, cement, gravel, stone, or asphalt without owning, operating, or maintaining a place of business if the business both owns and operates distribution equipment

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for the products. Any supplementing of such business' distribution equipment shall be by a long-term lease agreement and not on an ad hoc or contract-by-contract basis. Packagers, manufacturer representatives, or other businesses who arrange or expedite transactions are not Regular Dealers.

"State contracts" means all contracts entered into by the State, any agency or department thereof, or any public institution of higher education, including community college districts, regardless of the source of the funds with which the contracts are paid, which are not subject to federal reimbursement. "State contracts" does not include contracts awarded by a retirement system, pension fund, or investment board subject to Section 1-109.1 of the Illinois Pension Code. This definition shall control over any existing definition under this Act or applicable administrative rule.

"Supplier" refers to a company that owns, operates, or maintains a store, warehouse or other establishment in which materials, supplies, articles or equipment are bought, kept in stock and regularly sold or leased to the public in the usual course of business. A regular distributor or supplier is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for performance of a contract are bought, kept in stock, and regularly sold to the public in the usual course of business. To be a regular distributor the firm must engage in, as its principal business and in its own name, the purchase and sale of the products in question. A regular distributor in bulk items such as steel, cement, gravel, stone, and petroleum products need not keep such products in stock if it owns or operates distribution equipment.

"Utilization Plan" means a form and additional documentation included in all bids or proposals that demonstrates a vendor's proposed utilization of vendors certified by the Business Enterprise Program to meet the targeted goal. The Utilization Plan shall demonstrate that the Vendor has either: (1) met the entire contract goal or (2) requested a full or partial waiver and made Good Faith Efforts towards meeting the goal.

Business Enterprise Program Aspirational Goal

The Business Enterprise for Minorities, Women, and Persons with Disabilities Act, 30 ILCS 575, establishes an aspirational goal of awarding not less than 20% of the total dollar amount of State contracts to businesses certified as owned and controlled by minorities, women, and persons with disabilities. 30 ILCS 575/4(a).

Section 45-75 of the Illinois Procurement Code, 30 ILCS 500, establishes a goal to award not less than 3% of the total dollar amount of State contracts to SDVOSBs and VOSBs.

This solicitation includes Business Enterprise Program (BEP) and/or Veterans Business Program participation goals and, therefore, requires bidders and offerors to include a BEP Utilization Plan and a VSB Utilization Plan. A "Utilization Plan" includes the form on page 1 of this document, with the Participation Agreement and Schedule(s); any additional documentation required in the instructions that demonstrates a commitment to utilizing certified BEP/VSB subcontractors to meet the targeted, contract-specific goal, described below; and documentation demonstrating Good Faith Effort when requesting a goal waiver or reduction.

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A properly completed BEP Utilization Plan and VSB Utilization Plan is due at the time of bid or offer submission. Failure to complete and include a BEP Utilization Plan shall render a bid or offer non-responsive. 30 ILCS 575/4(f). Non-responsive bids and offers will be rejected by the Agency/University.

In addition to the other award criteria established for this solicitation, the Agency/University will award this contract to a Vendor that meets the contract-specific goal or makes Good Faith Efforts to meet the goal. The goal is applicable to the contract, amendments, modifications, extensions, change orders, and allowances. The Vendor's Utilization Plan must indicate whether the goal will be met by self-performance or by subcontracting. If the prime Vendor is BEP certified, the entire goal can be met by Prime Vendor self-performance, without subcontracting with another certified BEP vendor. If the prime Vendor is VSB certified, the entire VSB goal can be met by Prime Vendor self-performance. However, the prime BEP or VSB Vendor must submit a Utilization Plan indicating that the goal will be met by self-performance. If a prime Vendor subcontracts any portion of a contract to non-BEP/VSB certified subcontractors, the amount paid for goods or services delivered by those subcontractors will not be counted toward the goal.

Contract (Specific) Goal to be Achieved by Vendor

This solicitation includes a contract-specific BEP/VSB participation **goal** based on certified BEP/VSB vendors available to perform anticipated services and/or provide supplies required by this solicitation. The availability of certified BEP/VSB vendors was determined using The Institute for Public Procurement (NIGP Class and Class Item) codes listed in the Invitation for Bid (IFB), Request for Proposal (RFP), Request for Qualifications (RFQ), or other solicitation documents.

Prime Vendors must only consider NIGP Class and Class Item codes referenced in solicitation documents when selecting BEP/VSB subcontractors or completing a Good Faith Effort. Subject to State Agency/University approval, the Prime Vendor may utilize additional codes to identify BEP/VSB vendors that will be able to perform a commercially useful function under the resulting contract through direct participation. Indirect participation will not be considered towards BEP/VSB goals. Direct participation includes work that is directly related to the completion of the scope of work of the contract. Indirect participation includes work related to other aspects of the Contractor's business. The NIGP Class and Class Item codes listed in the solicitation documents, as well as any additional codes selected by the Prime Vendor and approved by the contracting Agency/University, must be entered in Part II: Participation Agreement and Part III: Good Faith Effort Log sections of this Utilization Plan. Bidders seeking a Good Faith Effort waiver or goal reduction must contact **all** BEP/VSB vendors identified for respective NIGP Class and Class Item commodity/service codes listed in the solicitation documents.

The Prime Vendor must also enter into the Participation Agreement its plan to utilize each BEP/VSB subcontractor, including: (a) the proposed percentage of the contract to be performed by each BEP/VSB subcontractor; (b) the anticipated start date for each BEP/VSB subcontractor; (c) the anticipated dates and time periods of utilization of each BEP/VSB subcontractor; and (d) a detailed description of the work to be performed by each BEP/VSB subcontractor, including identified NIGP Class and Class Item commodity/service codes.

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This Utilization Plan must demonstrate that the prime Vendor has either: (1) met the entire contract goal; or (2) requested a full waiver and made Good Faith Efforts towards meeting the entire goal; or (3) requested a goal reduction and made Good Faith Efforts towards meeting a portion of the goal. Submission of Good Faith Effort log and appropriate documentation by Vendor shall be considered as a request for a full or partial goal waiver.

For a Utilization Plan to be considered, at the time of bid or offer, the submitting prime BEP/VSF vendor, if self-performing, or non-BEP/VSF submitting prime Vendor's proposed BEP/VSF subcontractor(s), must be certified with the Illinois Commission on Equity and Inclusion (CEI) Business Enterprise Program as a BEP certified vendor, and Sheltered Workshops must be registered with the State for procurements containing a State Use Program category.

1. Where there is a **joint venture** between a certified and non-certified vendor, the Utilization Plan must include an executed Joint Venture Agreement specifying the terms and conditions of the relationship between the parties and their rights and responsibilities to the prospective contract. The Joint Venture Agreement must clearly evidence that the BEP/VSF certified vendor will be responsible for a defined portion of the work and its responsibilities, risks, profits, contributions of capital, and personnel are proportionate to its ownership/interest percentage, as well as identifying the appropriate and specific NIGP Class and Class Item codes. It must include specific details related to the parties' contributions of capital, personnel, equipment, share of costs, insurance coverage, and other items; the scopes to be performed by BEP/VSF certified vendor(s) under its supervision; and the commitment of management, supervisory personnel, and operative personnel employed by the BEP/VSF certified vendor to be dedicated to the performance of the contract. Established Joint Venture Agreements will **only** be credited toward BEP/VSF goal achievements for specific work performed by the BEP Certified Joint Venture Vendor. **Each party to the Joint Venture Agreement must execute the bid or offer prior to submission of the bid or offer to the Agency/University.**

2. An agreement between a prime Vendor and a BEP/VSF certified vendor in which a BEP/VSF certified vendor promises not to provide subcontracting or pricing quotations to other vendors is prohibited. The Agency/University may request additional information to demonstrate compliance. Vendor agrees to cooperate promptly with the Agency/University in submitting to interviews, allowing entry to business places, providing documentation, and to soliciting the cooperation of a proposed BEP/VSF certified vendor during investigation. Failure to cooperate by a Vendor and/or BEP/VSF certified vendor may render the bidder or offeror non-responsive or not responsible. **A contract will not be awarded to a Vendor unless that Vendor's Utilization Plan is found responsive.**

3. **BEP/VSF Certified Vendor Locator References: Firms must be certified with CEI as BEP/VSF certified vendors at the time of bid or qualify for credit toward the goal through participation in the BEP Mentor/Protégé Program.** Vendors may consult CEI's BEP Vendor Directory at <https://ceibep.diversitysoftware.com/?TN=ceibep>.

4. **Vendor Assurance:** Vendor shall not discriminate based on race, color, national origin, sexual orientation or sex in the performance of this contract. Failure by Vendor to carry out these requirements is a material breach of the contract, which may result in the termination of the

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contract or such other remedy, as the Agency/University deems appropriate. **This assurance must be included in each subcontract that Vendor signs with a subcontractor or supplier.**

5. Calculating BEP/VSB Certified Vendor Participation: The Utilization Plan and Participation Agreement(s) identify work and/or goods/equipment anticipated to be provided by all BEP/VSB certified vendors and paid for upon satisfactory completion/delivery, based on NIGP Class and Class Item Code(s). **Only the value of payments made for services performed and/or actual supplies/goods/equipment provided by BEP/VSB certified vendors is counted toward the contract goal.** Applicable guidelines for counting payments attributable to contract goals are summarized below.

- 5.1.** The value of performed work and/or goods/equipment provided by the BEP/VSB certified vendor for the resulting contract shall be counted towards the goal. The entire amount of that portion of the contract that is performed by the BEP/VSB certified vendor, including supplies purchased or equipment leased by the BEP/VSB certified vendor shall be counted, except supplies purchased and equipment rented from the Prime Vendor submitting this bid or offer.
- 5.2.** A BEP certified prime Vendor shall count the portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work of the contract that the BEP/VSB certified prime Vendor self-performs toward the goal. A BEP/VSB certified prime Vendor shall also count the dollar value of work subcontracted to other BEP/VSB certified vendors. **Work performed by non-BEP/VSB certified parties shall not be counted toward the goal, including work that a BEP/VSB certified vendor subcontracts to non-BEP/VSB certified vendors.**
- 5.3.** A Vendor shall count toward the goal 100% of its expenditures for materials and supplies required under the contract and obtained from a BEP/VSB certified vendor manufacturer, regular dealer, or supplier. A Vendor shall also count toward the goal the following expenditures to BEP/VSB certified vendors that are not manufacturers, regular dealers, or suppliers:
 - 5.3.1.** The fees or commissions charged for providing a bona fide service, such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials or supplies required for performance of the contract, provided that the fee or commission is determined by the Agency/University to be reasonable and not excessive as compared with fees customarily allowed for similar services.
 - 5.3.2.** The fees charged for delivery of materials and supplies required by the contract (but not the cost of the materials and supplies themselves) when the hauler, trucker, or delivery service is not also the manufacturer or a supplier of the materials and supplies being procured, provided that the fee is determined by the Agency/University to be reasonable and not excessive as compared with fees customarily allowed for similar services. The BEP/VSB certified vendor's trucking

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firm must actually be responsible for the management and supervision of the entire trucking operation for which it is responsible on the contract; and must itself own and operate at least one fully licensed, insured and operational truck used on the contract.

- 5.3.3.** The fees or commissions charged for providing any bonds or insurance specifically required for the performance of the contract, provided that the fee or commission is determined by the Agency/University to be reasonable and not excessive as compared with fees customarily allowed for similar services.
- 5.4.** BEP/VSB certified vendors who are performing on a contract as second-tier subcontractors (i.e., subcontractors hired by first-tier subcontractors to perform on the contract) may be counted in meeting the established BEP/VSB goal for this contract where the Prime Vendor will provide monthly documentation indicating the utilization of these vendors by reporting the utilization to the BEP at <https://ceibep.diversitysoftware.com/?TN=ceibep> for State Agencies and by contacting the contract administrator for Universities.
- 5.5.** A Vendor shall count towards the goal only expenditures to BEP/VSB firms that perform a **commercially useful function constituting direct participation** in the work of the contract.
- 5.5.1.** A firm is considered to perform a **commercially useful function** when it is responsible for execution of a distinct element of the work of a contract and carries out its responsibilities by actually performing, managing, and supervising the work involved. The BEP/VSB certified vendor must also be responsible, with respect to materials or supplies used on the contract, for negotiating price, determining quality and quantity, ordering the materials or supplies, and installing the materials (where applicable) and paying for the materials or supplies. To determine whether a firm is performing a commercially useful function, the Agency/University shall evaluate the amount of work subcontracted, whether the amount the firm is to be paid under the contract is commensurate with the work it actually performs, the credit claimed for its performance of the work, industry practices, and other relevant factors.
- 5.5.2.** A BEP certified vendor does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction or contract through which funds are passed through to obtain BEP/VSB certified vendor participation. In determining whether a BEP/VSB certified vendor is such an extra participant, the Agency/University shall examine industry practices and similar transactions, particularly those in which BEP/VSB certified vendors actually participate in a meaningful way.
- 5.6.** A Vendor shall not count towards the goal expenditures that are not direct, necessary and related to the work of the contract. Only the amount of services and/or goods

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that are directly attributable to the performance of the contract shall be counted. Ineligible expenditures include, but are not limited to, general office overhead and other Vendor support activities, unless allowed by the Agency/University.

6. Good Faith Effort Procedures: Prime Vendors must submit in their bid a Utilization Plan and Participation Agreement(s) that meet or exceed the published goal. If a Prime Vendor cannot meet the stated goal, it must fill out and attach Part III of this document, explaining the Good Faith Efforts it undertook to meet the goal, including contacting all certified BEP/VSB vendors that fall under the scope of work/NIGP Class and Class Item codes identified in the solicitation documentation. Utilization Plans and attached documentation are due at the time of bid or offer submission. The Business Enterprise Council ("Council") or its delegate will consider the quality, quantity, and intensity of the Vendor's efforts to meet the BEP goal. The procuring Agency/University will consider the quality, quantity, and intensity of the Vendor's efforts to meet the VSB goal.

The Utilization Plan contains a checklist of actions that the Council or its delegate will consider as evidence of Vendor's Good Faith Efforts to meet the BEP goal and that the Agency/University will consider as evidence of Vendor's Good Faith Efforts to meet the VSB goal. Documentation that alters or replaces the Utilization Plan and/or Participation Agreement(s), other than supplemental documentation, will not be considered during the Utilization Plan review.

- 6.1.** In evaluating Vendor's Good Faith Efforts, the Council, its delegate, or an Agency/University as applicable may consider whether the ability of other bidders or offerors to meet the contract goal suggests that Good Faith Efforts could have resulted in Vendor meeting the goal.
- 6.2.** If the Council, its delegate, or an Agency/University determines that Vendor has made Good Faith Efforts to meet the BEP and VSB goal, respectively, the Agency/University may award the contract provided that Vendor is otherwise eligible for award.
- 6.3.** If the Council, its delegate, or an Agency/University, as applicable, determines that Good Faith Efforts have not been met, the bid or offer may be determined to be non-responsive by the Chief Procurement Officer.

7. Contract Compliance: Compliance with this section is an essential part of the contract. The following administrative procedures and remedies govern Vendor's compliance with the contractual obligations established by the Utilization Plan and Participation Agreement(s). **After approval of the Utilization Plan and Participation Agreement(s) as well as the award of the contract, the Utilization Plan, including all applicable Parts, becomes part of the contract.** If a Prime Vendor requested a waiver due to its inability to obtain BEP/VSB certified vendor participation equal to or exceeding the goal, and the Utilization Plan was approved and contract awarded based upon a determination of Good Faith Effort, the total dollar value of BEP/VSB certified vendor work in the approved Utilization Plan, calculated as a percentage of the total awarded contract value, shall become the final contract goal.

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- 7.1.** The Utilization Plan and Participation Agreement(s) may not be amended after contract execution without Agency/University prior written approval.
- 7.2. Vendor may not make modifications to its contractual BEP/VSB certified vendor commitments or substitute BEP/VSB certified vendors without the prior written Agency/University approval.** Unauthorized modifications or substitutions, including performing the work designated for a BEP/VSB certified vendor with Vendor's own forces, shall be a violation of the Utilization Plan and therefore a breach of the contract, cause to terminate the contract, and cause to seek other contract remedies or sanctions. For Agency/University approval of modifications or substitutions, the facts supporting the modifications or substitutions must not have been known nor reasonably should have been known by the parties prior to entering into the contract and/or subcontract. Vendor must negotiate with BEP/VSB certified vendors to resolve problems. Where there has been a mistake or disagreement about the scope of work and/or goods/equipment required by the contract, the BEP/VSB certified vendor can be substituted, but only where agreement cannot be reached for a reasonable price or schedule for the correct scope of work, goods and/or equipment. Any subsequent change **must** be submitted to the soliciting Agency/University and BEP Secretary, in writing, and approved by the soliciting Agency/University.
- 7.3.** Substitutions of a BEP/VSB certified vendor may be permitted under the following circumstances:
- 7.3.1.** Unavailability after receipt of reasonable notice to proceed;
 - 7.3.2.** Failure of performance;
 - 7.3.3.** Financial incapacity;
 - 7.3.4.** Refusal by the BEP/VSB certified vendor to honor the bid or proposal price or scope;
 - 7.3.5.** Material mistake of fact or law about the elements of the scope of work of a contract where a reasonable price cannot be agreed upon;
 - 7.3.6.** Failure of the BEP/VSB certified vendor to meet insurance, licensing or bonding requirements;
 - 7.3.7.** The BEP/VSB certified vendor's withdrawal of its bid or offer; and/or
 - 7.3.8.** Failure of the BEP/VSB certified vendor to maintain certification.
- 7.4.** If it becomes necessary to substitute a BEP/VSB certified vendor, the prime Vendor must notify the Agency/University and BEP Secretary, in writing, of the request to substitute a BEP/VSB certified vendor or otherwise modify the Utilization Plan and

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Participation Agreement(s). The request must state specific reasons for the substitution or modification. The Agency/University shall notify the Council or its delegate of the request to substitute a BEP/VSB certified vendor or change the Utilization Plan and Participation Agreement(s). The Agency/University will approve or deny a request for substitution or other change in the Utilization Plan and/or Participation Agreement(s) within five business days of receipt of the request or may request a BEP review of the documentation.

- 7.5. Where Vendor has established the basis for the substitution to the satisfaction of the Agency/University, it must make Good Faith Efforts to meet the contract goal by substituting one or more BEP/VSB certified vendors. Documentation of a replacement BEP certified vendor, or of Good Faith Efforts to replace the BEP/VSB certified vendor, must meet the requirements of the initial Utilization Plan. If the goal cannot be reached and Good Faith Efforts have been made, Vendor may substitute with a non-BEP/VSB certified vendor.
- 7.6. Prime Vendors are encouraged to utilize BEP/VSB certified firms. If a Vendor plans to hire a subcontractor for any scope of work that was not previously disclosed in the Utilization Plan and this increases BEP/VSB participation, Vendor must obtain the approval of the Agency/University to modify the Utilization Plan and must make Good Faith Efforts to ensure that BEP/VSB certified vendors have a fair opportunity to submit a bid or offer on the new scope of work.
- 7.7. If the Prime Vendor wishes to substitute its BEP/VSB certified subcontractor, a BEP/VSB certified vendor Utilization Plan and Participation Agreement must be executed and submitted to the Agency/University within five (5) business days of Vendor's receipt of the Agency/University approval for the substitution. The Agency/University must supply the new BEP Utilization Plan and Participation Agreement(s) to the BEP Secretary or their designee.
- 7.8. Vendor shall maintain a record of all relevant data with respect to the utilization of BEP/VSB certified vendors including, but not limited to, payroll records, invoices, canceled checks and books of account for a period of at least three (3) years after the completion of the contract. If the contract administrator is an Agency, Vendor shall submit monthly reports to BEP via the B2G Now Diversity Contract Monitoring System (DCMS) reporting system. **If the contract administrator is a University, Vendor shall contact the contract administrator to obtain reporting requirements.** Full access to these records shall be granted by Vendor within 48 hours of a written demand by the Agency/University, BEP Secretary, or any duly authorized representative thereof, or to any municipal, county, State or federal authorities. The Agency/University shall have the right to obtain from Vendor any additional data reasonably related or necessary to verify any representations by Vendor. After the performance of the final item of work or delivery of material by the BEP certified vendor and final payment to the BEP certified vendor by Vendor, but not later than thirty (30) calendar days after such payment, Vendor shall submit a statement confirming the final payment and the total payments

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made to the BEP certified vendor under the contract at <https://ceibep.diversitysoftware.com/?TN=ceibep> for contracts administered by Agencies. For contracts administered by Universities, Vendor shall submit a statement confirming the final payment and the total payments made to the BEP/VSB certified vendor under the contract in the manner prescribed by the University contract administrator. **Vendor's failure to submit monthly reports shall constitute a material breach of this contract and subject Vendor to the remedies and penalties described in Section 7.10. For contracts administered by Agencies, The Prime Vendor and BEP subcontractors will receive notification and instructions after the start of the contract for reporting to BEP's DCMS. Failure to report contractual spend or lack of spend monthly reporting may result in a contractual breach.**

- 7.9.** The Agency/University will annually review Vendor's compliance with these provisions and the terms of its contract. Executive Order Number 2018-06 requires review of contractual language regarding cancelation of contracts deemed not to be compliant with the BEP. Without limitation, Vendor's failure to comply with these provisions or its contractual commitments as contained in the Utilization Plan and Participation Agreement(s); failure to cooperate in providing information regarding its compliance with these provisions or its Utilization Plan; or provision of false or misleading information or statements concerning compliance, certification status or eligibility of a BEP certified vendor, Good Faith Efforts or any other material fact or representation shall constitute a material breach of this contract and entitle the Agency/University to declare a default, terminate the contract, and/or exercise those remedies provided for in the contract, law and equity.
- 7.10.** The Agency/University reserves the right to withhold payment to Vendor to enforce these provisions and Vendor's contractual commitments. Final payment shall not be made pursuant to the contract until Vendor submits sufficient documentation demonstrating compliance with its Utilization Plan and Participation Agreement(s).

PART 3

PLAN SHEETS, DETAILS AND STANDARD DRAWINGS