A

REQUEST FOR PROPOSAL

FOR

ASPHALT PAVEMENT REPLACEMENT

AMERICAN FAMILY FIELD
1 BREWERS WAY
MILWAUKEE, WISCONSIN 53214

ISSUED BY:
WISCONSIN PROFESSIONAL BASEBALL PARK DISTRICT
("DISTRICT")

February 7, 2025

INTRODUCTION

The Wisconsin Professional Baseball Park District ("District" or "Owner") is a special district that is a local unit of government, a body corporate and politic that is separate, distinct and independent from the state. The District is charged with the oversight and monitoring of planning, financing, designing, constructing, commissioning, operating and maintaining a major league baseball facility, American Family Field, that is the home of the Milwaukee Brewers ("Team"), in Milwaukee, Wisconsin.

The District is seeking bids from qualified contractors ("Contractor") for the mill and overlay of existing asphalt and installation of drain tile as described within at American Family Field. The total approximate areas are as follows: Asphalt: 680,000 square feet / Drain Tile: 220 linear feet All quantities and measurements are to be field verified by bidding Contractors.

Work shall be in full accordance with the documents within this RFP, including any addenda and written response to questions. Please see **Appendix A** for detailed scope of work, including drawings, specifications, and photographs.

OVERVIEW

Bids should be submitted using the Bid Forms included in this RFP. While the District has provided certain drawings as part of this RFP, they should not be relied upon for completeness. Bidding Contractors must visit the site and observe and measure all areas as part of this bid. The Sigma Group will serve as Project Administrator on this project. Access to the site can be obtained through:

Drew Falkenburg, Project Administrator
414-659-0942
dfalkenburg@thesigmagroup.com

Bids should be written to the attention of:
Wisconsin Professional Baseball Park District
Attn: Drew Falkenburg
American Family Field
1 Brewers Way
Milwaukee, WI 53214

Bids can be emailed to: dfalkenburg@thesigmagroup.com

Contractors will receive an email confirming receipt of the bid. Bids are due by **5:00 PM (CT) on Monday, March 3, 2025**.

This RFP may be amended by the District in response to need for further clarification, specifications and/or requirement changes, new opening date, etc. Amendments will be posted on the District's website at www.wibaseballdistrict.com. It is the responsibility of the bidding Contractors to check this website for any future amendments, questions, revisions, etc., prior to the opening date and return with the response. Failure to do so may result in your bid being rejected. The District reserves the right to (i) reject any and all bids for any reason or no reason at

all; (ii) disregard all non-conforming, non-responsive or conditional bids; or (iii) waive any and all bid irregularities or informalities and make an award as if the irregularities or informalities did not exist. Contractors will not be compensated for any costs or expenses incurred in the preparation of their bid.

Any and all questions related to this RFP must be submitted in writing no later than 5:00 pm (CT) on February 14, 2025, to the Project Administrator, Drew Falkenburg, at dfalkenburg@thesigmagroup.com. Responses to questions will be posted on the District's website (www.wibaseballdistrict.com) no later than 5:00 pm (CT) on February 18, 2025. **Please check the website periodically since a preliminary response to questions may be posted sooner than February 18, 2025.**

A copy of the Wisconsin Professional Baseball Park District standard General Conditions to Construction Services Contract is included in **Appendix B**. A contract with these terms and conditions will be presented to the selected Contractor for signature. Bidding Contractors are required to return any exceptions to these standard Terms and Conditions with their bid.

SCOPE OF WORK / SPECIFICATIONS

See **Appendix A** for drawings and specifications. All work and materials shall conform in every detail to the scope, drawings and specifications. If there is a conflict within or between the any of the RFP documents involving an obligation, a duty, or the quality or quantity of Work required, then the document imposing the most stringent obligation or duty and the highest quality or greatest quantity shall control. All quantities are to be field measured and verified by the bidding Contractor.

Follow Wisconsin Department of Transportation 2018 and 2023 Standard Specifications for this work. A courtesy copy of the following sections are included in **Appendix A**:

- Section 450 General Requirements for Asphaltic Pavements
- Section 204: Removing Pavements
- Section 305 Dense-Graded Base
- Section 690 Sawing
- Part 700 Quality Management Program

BASE BID 1: ASPHALT-YOUNT (NORTH) LOT

Install erosion control, sawcut at applicable boundaries, remove and replace settled HMA paving surrounding each light pole (estimated 50 square feet at each light pole), repair pavement base in settled areas as needed, 2-inch mill and overlay of HMA pavement for approximately 350,000 square feet.

BASE BID 2: ASPHALT-UECKER (SOUTH) LOT

Install erosion control, sawcut at applicable boundaries, remove and replace settled HMA paving surrounding each light pole (estimated 50 square feet at each light pole), repair pavement base in settled areas as needed, 2-inch mill and overlay of HMA pavement for approximately 330,000 square feet.

Sawcut asphalt, excavate base and fill, add approximately 220 linear feet of drain tile beneath the surface of the pavement per plan details, add HMA binder course, pave topcoat HMA with surrounding areas.

Unit Price Bids
Bidders shall provide a unit price for any EBS encountered that is approved by the Project Administrator. All items associated with the work shall be included in the unit price, including but not limited to excavation, removals, hauling away of excavated material, and final compaction prior to placement of base course. Unit price shall be listed per cubic yard.

Bidder shall provide a unit price for base course that is approved by the Project Administrator. All items associated with the work shall be included in the unit price, including but not limited to hauling and furnishing the base course required, placement and compaction prior to placement of concrete. Unit price shall be listed per ton.

SCHEDULE

Milestone	Date
RFP questions due	February 14, 2025
RFP response to questions posted	February 18, 2025
RFP bids due	March 3, 2025
Contract awarded to selected Contractor *	Week of March 10th
Substantial completion **	November 15, 2025

* A copy of the Wisconsin Professional Baseball Park District standard General Conditions to Construction Services Contract is included in **Appendix B**.

** Work must be coordinated around events at the ballpark and site. The 2025 Milwaukee Brewers Baseball Schedule is included in **Appendix C**.

ACCURACY
This RFP may include errors, omissions, or deficiencies, and the accuracy and completeness of this document and related documents are not guaranteed. In the event such errors, omissions, or deficiencies are discovered by the Contractor, the Contractor shall promptly notify the District in writing within seventy-two (72) hours of discovery. The Contractor shall abide by and comply with the true intent and meaning of the requirements as stated herein and shall not avail itself of any apparent error or omission, should any exist. Further, by submitting a Bid, Contractor warrants that all items to be supplied under any resultant contract shall, unless otherwise agreed by the Owner, meet the performance requirements set forth in this RFP.

PERMITS AND REGULATIONS
Bidder shall include in their bid all costs necessary to comply with all applicable laws, ordinances, rules and regulations. All work for the project must be performed in accordance with all federal, state, and local laws, ordinances, and rules and regulations relating to the work. Where the bid documents exceed these requirements, the bid documents shall govern. In no case shall work be installed contrary to or below the minimum legal standards.

BIDDING CONTRACTOR'S REPRESENTATION

By submitting a bid, each Contractor certifies that it has examined and fully comprehends the requirements and intent of this RFP. By submitting a bid, each Contractor further certifies that, prior to submitting its bid, it has visited the site and examined all conditions affecting the Work and proposes to furnish all labor, materials, equipment and supplies necessary for, or incidental to, the proper execution of the Work.

CONDITIONS OF WORK

Access to American Family Field will be subject to standard building access regulations in place at that time. The selected Contractor will be provided with parking at American Family Field.

CAP MAINTENANCE PLAN

The work area is subject to a Cap Maintenance Plan. The full plan can be found on the District's website under the Operations Committee page, and at: Cap Maintenance Plan - East
Environmentally protective caps are in place over contaminated soil within the project area. Therefore, the selected Contractor must manage impacted soil excavated as part of the project in accordance with the Cap Maintenance Plan.

PROTECTION OF WORK AND PROPERTY

Contractor shall continuously maintain adequate protection of all work from damage and shall protect Owner from injury or loss arising in connection with the Contract. Contractor shall make good any such damage, injury, or loss and shall adequately protect adjacent property.

Contractor shall take all necessary precautions for the safety of employees on the project, and shall comply with all applicable provisions of federal, state, and local safety laws and building codes to prevent accidents or injury to persons on, about or adjacent to the premises where the work is being performed. Contractor shall erect, and properly maintain at all times as required by the conditions and progress of the work, all necessary safeguards for the protection of workers and the public and shall post danger signs warning against, without limitation, hazards created by such features of construction as protruding nails, hoists, scaffolding, and falling materials. Contractor shall provide and maintain flags, danger signs, barricades, rails, etc., as required to for safety. Job site safety is the sole responsibility of the Contractor.

Contractor shall be responsible for all erosion control necessary for the Work. This shall include, but not be limited to, inlet covers.

DIVERSE FIRM PARTICIPATION

The District has a goal to achieve 15% participation by Diverse Firms as outlined in the 06/09/2020 Diversity Contracting Program. A copy can be found in **Appendix D** and on the Project Participation Committee tab on the Wisconsin Professional Baseball Park District website (www.wibaseballdistrict.com). Bidders must review and complete the form(s) as appropriate and submit with their bid documents. Failure to do so may result in your response being rejected.

WARRANTY

Contractor Warranty

In addition to all applicable manufacturer warranties, Contractor shall supply the Owner with a workmanship warranty that is in effect for a period of one (1) year from the substantial completion date. In the event any work related to the scope of work is found to be defective or otherwise not in accordance with Contract documents within the Contractor warranty term, the Contractor shall repair that defect at no cost to the Owner and within a manor deemed acceptable by the Owner.

A version of this Contractor Warranty shall be provided to the Owner as part of this bid process.

TAXES

This project is Sales & Use Tax Exempt (CES Number 008-0000051268-04). A Wisconsin Sales and Use Tax Exemption Certificate will be provided to the selected Contractor.

CLOSEOUT REQUIREMENTS

The selected Contractor shall submit the following to the Project Administrator as part of project closeout, in addition to completing the closeout items as listed in the specifications. The Project Administrator must approve these items prior to recommending final payment to the District.

1. Final conditional lien waiver
2. Contractor's labor warranty
3. Completion of all punch-list items

APPENDICES

A. Scope of Work
B. Wisconsin Professional Baseball Park District standard General Conditions to Construction Services Contract
C. Diversity Contracting Program
D. Current 2025 Milwaukee Brewers game schedule

This bid form must be signed by a person authorized to legally bind the Contractor. By submitting this bid, the Contractor agrees that the fixed price contained herein shall remain firm for a period of 30 days from the due date of this RFP.

BID FORMS

NAME OF COMPANY _____ (Affix Corporate Seal if Applicable)

STREET ADDRESS _____

CITY STATE ZIP CODE _____

TELEPHONE NUMBER _____

E-MAIL ADDRESS _____

SIGNATURE _____

TYPE NAME AND TITLE _____

DATE _____

I. LUMP SUM BASE BID 1– **ASPHALT-YOUNT (NORTH) LOT ASPHALT MILL AND OVERLAY**

In accordance with all Bidding Documents, Conditions, General Requirements, and Addenda, provide all necessary labor, materials, tools, equipment, supplies, and supervision necessary to perform all Work required to install the previously mentioned scope for the asphalt mill and overlay work as depicted in **Appendix A** at American Family Field.

Lump Sum
Amount $ _____ Dollars $ _____
(Words) U.S. Funds (Figures) U.S. Funds

II. LUMP SUM BASE BID 2– **ASPHALT-UECKER (SOUTH) LOT ASPHALT MILL AND OVERLAY AND DRAIN TILE INSTALLATION**

In accordance with all Bidding Documents, Conditions, General Requirements, and Addenda, provide all necessary labor, materials, tools, equipment, supplies, and supervision necessary to perform all Work required to install the previously mentioned scope for the asphalt mill and overlay work and drain tile installation as depicted in **Appendix A** at American Family Field.

Lump Sum
Amount $_____ Dollars $_____
(Words) U.S. Funds (Figures) U.S. Funds

III. UNIT COST/CY – **EXCAVATION BELOW SUBGRADE (EBS)**
In accordance with all Bidding Documents, Conditions, General Requirements, and Addenda, provide a unit price for excavation below subgrade. All items associated with the work shall be included in the unit price. Contractor will be required to document any replacement.

Unit Amount
Per Cubic Yard $_____ Dollars $_____
(Words) U.S. Funds (Figures) U.S. Funds

IV. UNIT COST/TON – **BASE COURSE**
In accordance with all Bidding Documents, Conditions, General Requirements, and Addenda, provide a unit price for base course. All items associated with the work shall be included in the unit price. Contractor will be required to document any replacement.

Unit Amount
Per Ton $_____ Dollars $_____
(Words) U.S. Funds (Figures) U.S. Funds

V. DIVERSE FIRM PARTICIPATION
Attach a completed "Diverse Firm Utilization Plan" and, if necessary, the "Exemption Certification" and "Certification of Good Faith Effort" to this bid form. Forms can be found in **Appendix D**.

{END BID FORM}

APPENDIX A

Scope of Work

AMERICAN FAMILY FIELD - EAST UECKER AND YOUNT LOT RFP

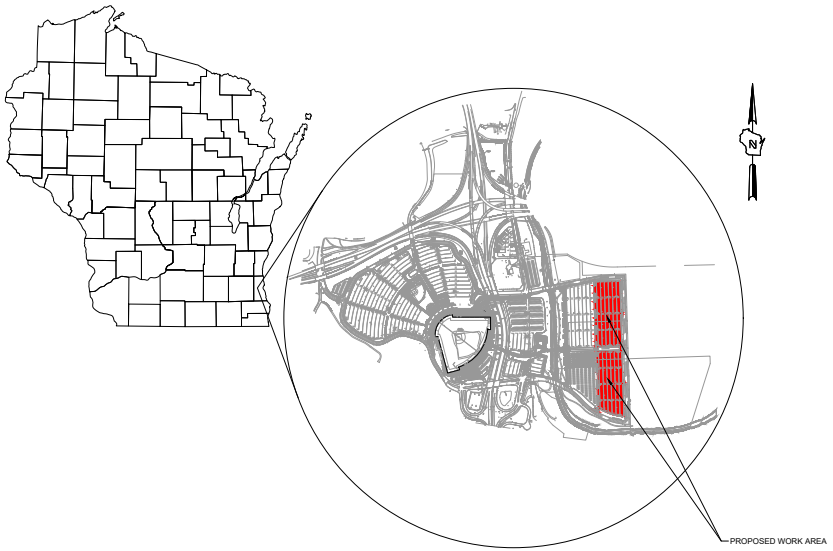
MILWAUKEE, WI 53214
CIVIL ENGINEERING PLANS

PREPARED BY:

THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, WI 53233
Phone: 414-643-4200
Fax: 414-643-4210

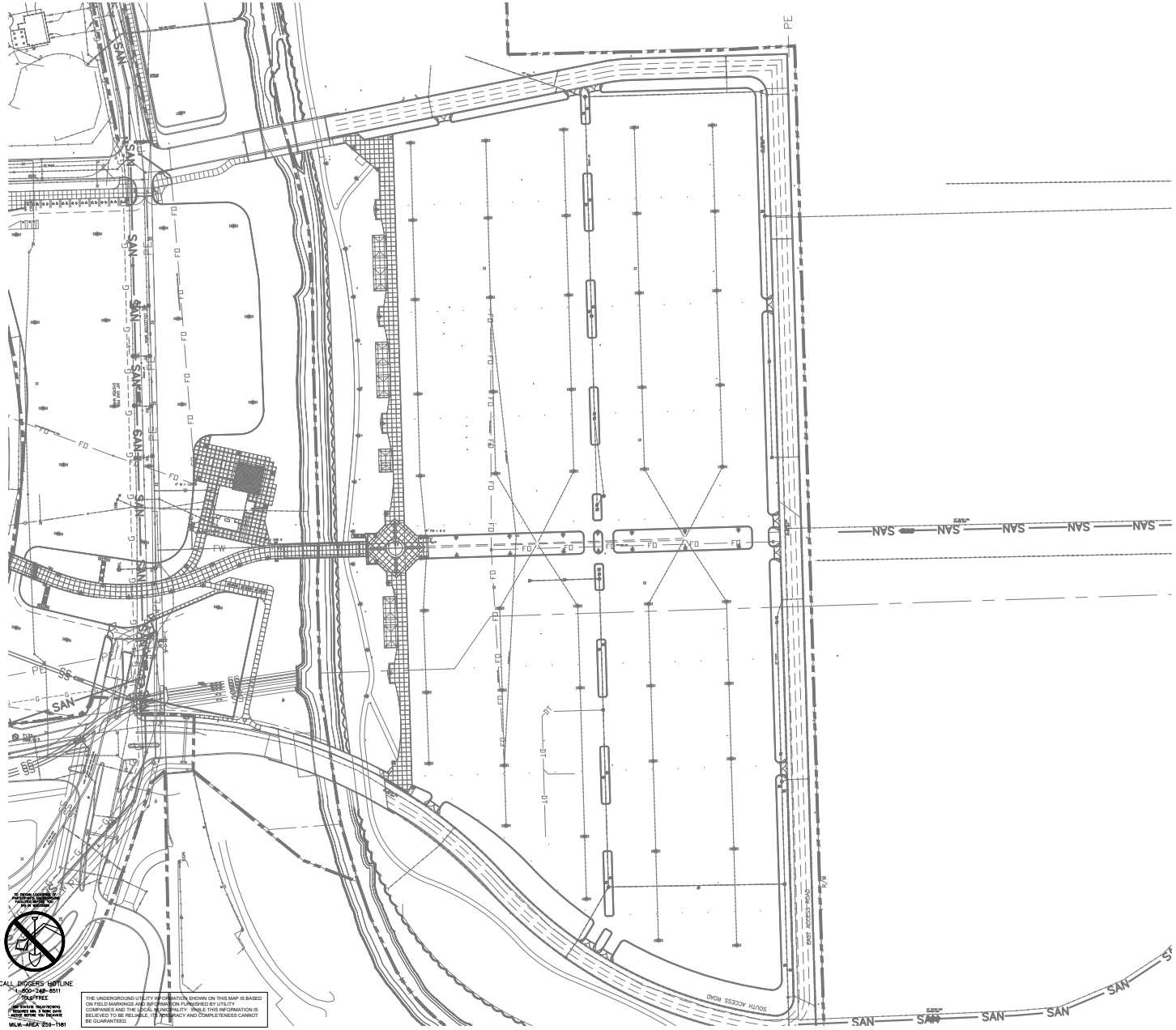
SITE LOCATION MAP:

NOT TO SCALE



Sheet List Table

REF #	DETAIL
000	TITLE SHEET
C001	EXISTING CONDITIONS
C002	EROSION CONTROL
C100	SITE PLAN - OVERVIEW
C101	SITE PLAN - NORTH LOT
C102	SITE PLAN - SOUTH LOT
C400	DETAILS
C500	SPECIFICATIONS



CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS MAP IS BASED ON FIELD MARKINGS AND INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. UNLESS THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED.

MLW--AREA 259--T181

THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, WI 53233
Phone: 414-643-4200
Fax: 414-643-4210

GRAPHIC SCALE
0 100 200

AMERICAN FAMILY FIELD - EAST UECKER AND YOUNT LOT RFP

MILWAUKEE, WI 53214

EXISTING CONDITIONS

PRELIMINARY
NOT FOR
CONSTRUCTION

ISSUANCE	DATE

NO.	REVISION	DATE

PROJECT NO:	23700
DESIGN DATE:	----
PLOT DATE:	2025.01.30
DRAWN BY:	----
CHECKED BY:	----
APPROVED BY:	----

SHEET NO:
C001

2025.01.30 CTRAUTSCHOLD C001 23700

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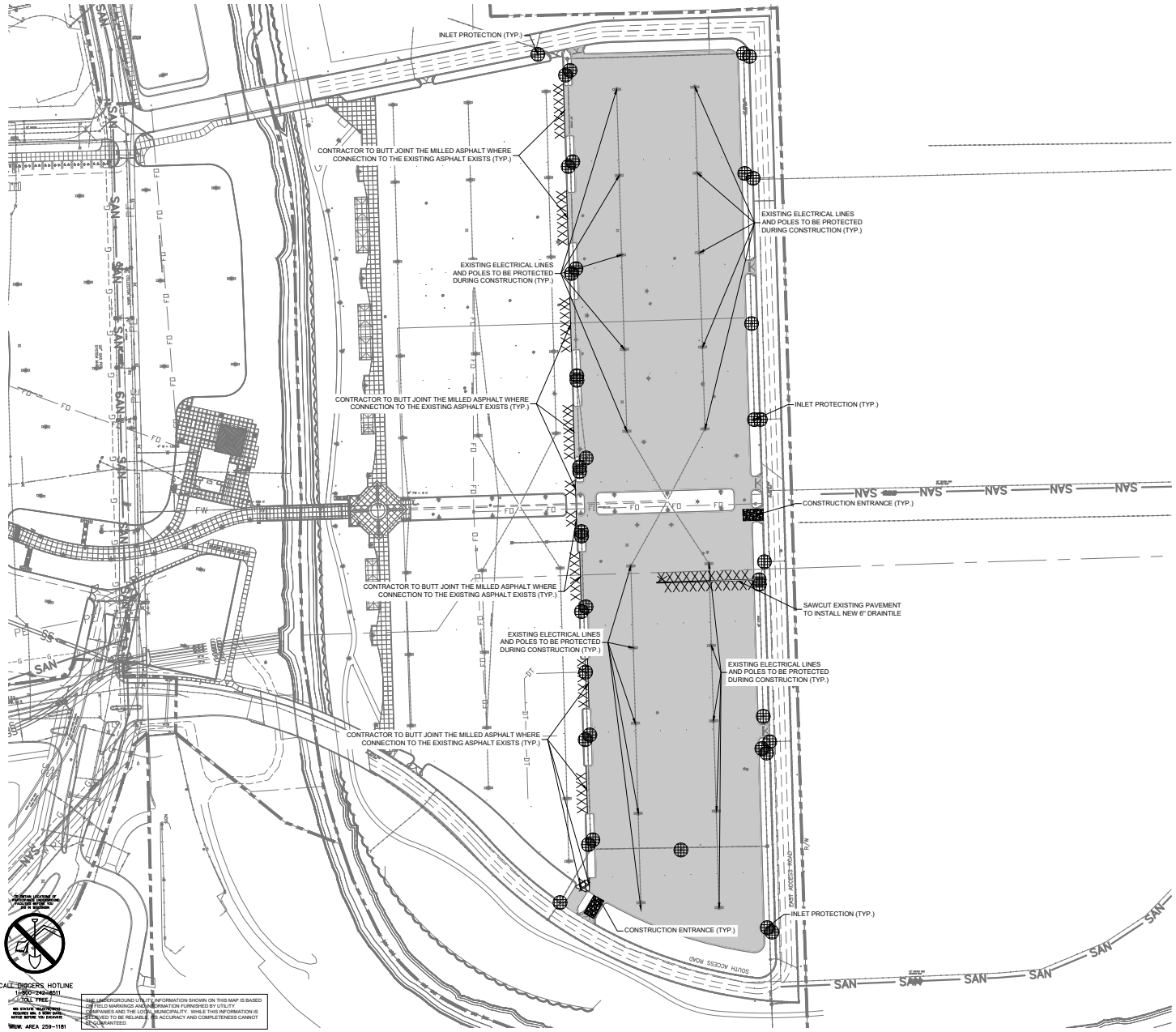

LEGEND:

- XXXXXXX — SAWCUT/ BUTT JOINT TO ADJOINING PAVEMENT
- MILL EXISTING PAVEMENT
- B 2400 — PROPOSED INLET PROTECTION
- A 2400 — CONSTRUCTION ENTRANCE

GRAPHIC SCALE
0 100 200

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AMERICAN FAMILY FIELD - EAST UECKER AND YOUNT LOT RFP
MILWAUKEE, WI 53214

EROSION CONTROL

PRELIMINARY NOT FOR CONSTRUCTION

ISSUANCE	DATE

NO.	REVISION	DATE

PROJECT NO:	23700
DESIGN DATE:	----
PLOT DATE:	2025.01.30
DRAWN BY:	----
CHECKED BY:	----
APPROVED BY:	----
SHEET NO:	C002

2025.01.30 CTRAUTSCHOLD C002 23700

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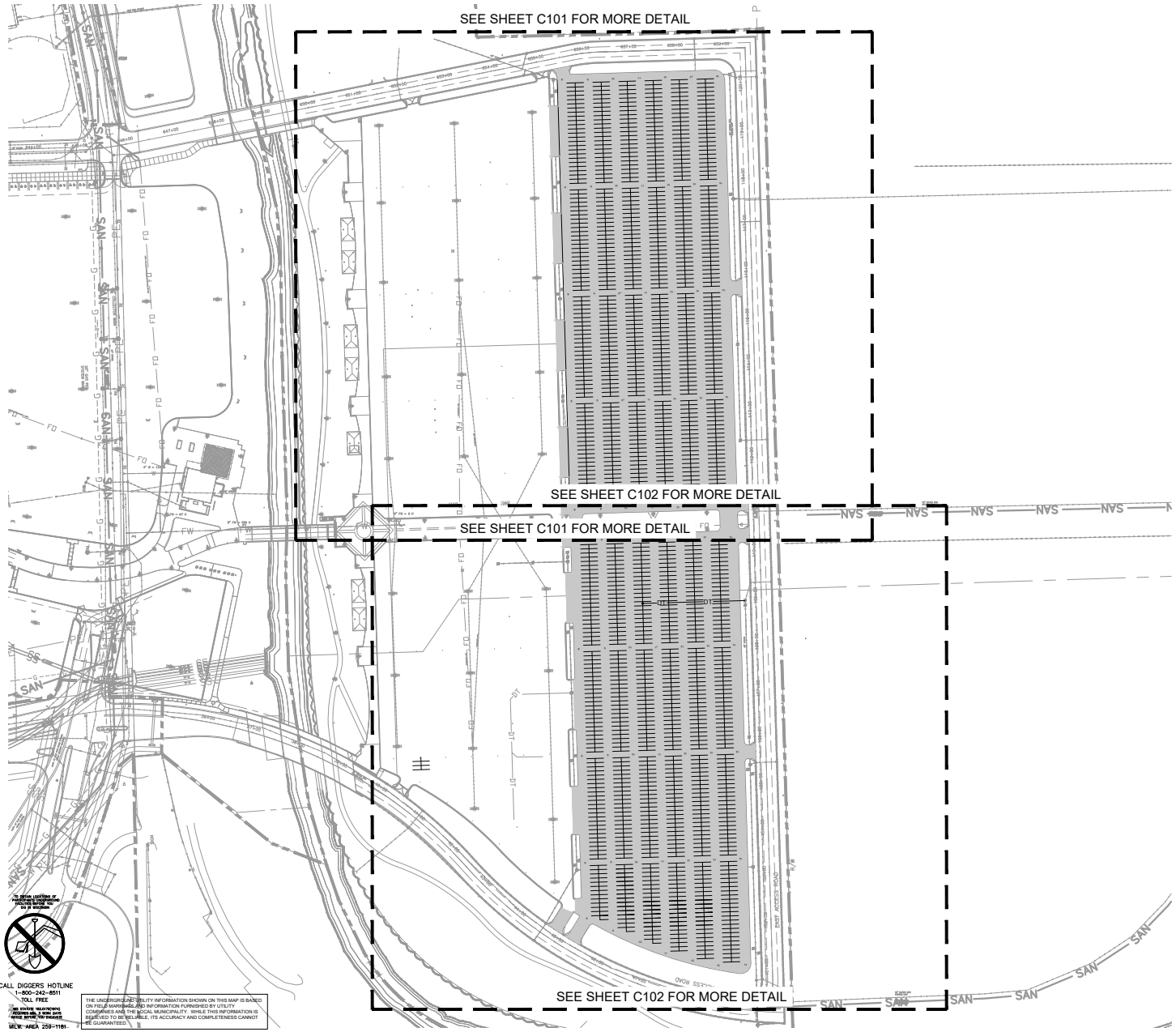

SITE INFORMATION			
SITE DISTURBED AREA	676845	15.538 AC	
EXISTING IMPERVIOUS AREA	676845	15.538 AC	100.00%
PROPOSED IMPERVIOUS AREA	676845	15.538 AC	100.00%
TOTAL PARKING SPACES	2245		

LEGEND:

- 2" MILL AND OVERLAY (674,919 S.F.)
- 6" WRAPPED DRAINTILE (220.4 L.F.)
- DRAINTILE CLEANOUT (1 QTY) — C / C400

NOTE:
1. LIGHT POLE BASES ARE INSUBSTANTIAL. CAUTION SHOULD BE TAKEN IN IMMEDIATE SURROUNDING AREAS TO PREVENT DAMAGE.
2. CONTRACTOR TO BUTT JOINT THE MILLED ASPHALT WHERE CONNECTION TO THE EXISTING ASPHALT EXISTS.

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE

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GRAPHIC SCALE
0 100 200

AMERICAN FAMILY FIELD - EAST UECKER AND YOUNT LOT RFP
MILWAUKEE, WI 53214

SITE PLAN - OVERVIEW

PRELIMINARY NOT FOR CONSTRUCTION

ISSUANCE	DATE

NO. REVISION	DATE

PROJECT NO:	23700
DESIGN DATE:	----
PLOT DATE:	2025.01.30
DRAWN BY:	----
CHECKED BY:	----
APPROVED BY:	----
SHEET NO:	C100

2025.01.30 CTRAUTSCHOLD C100 23700

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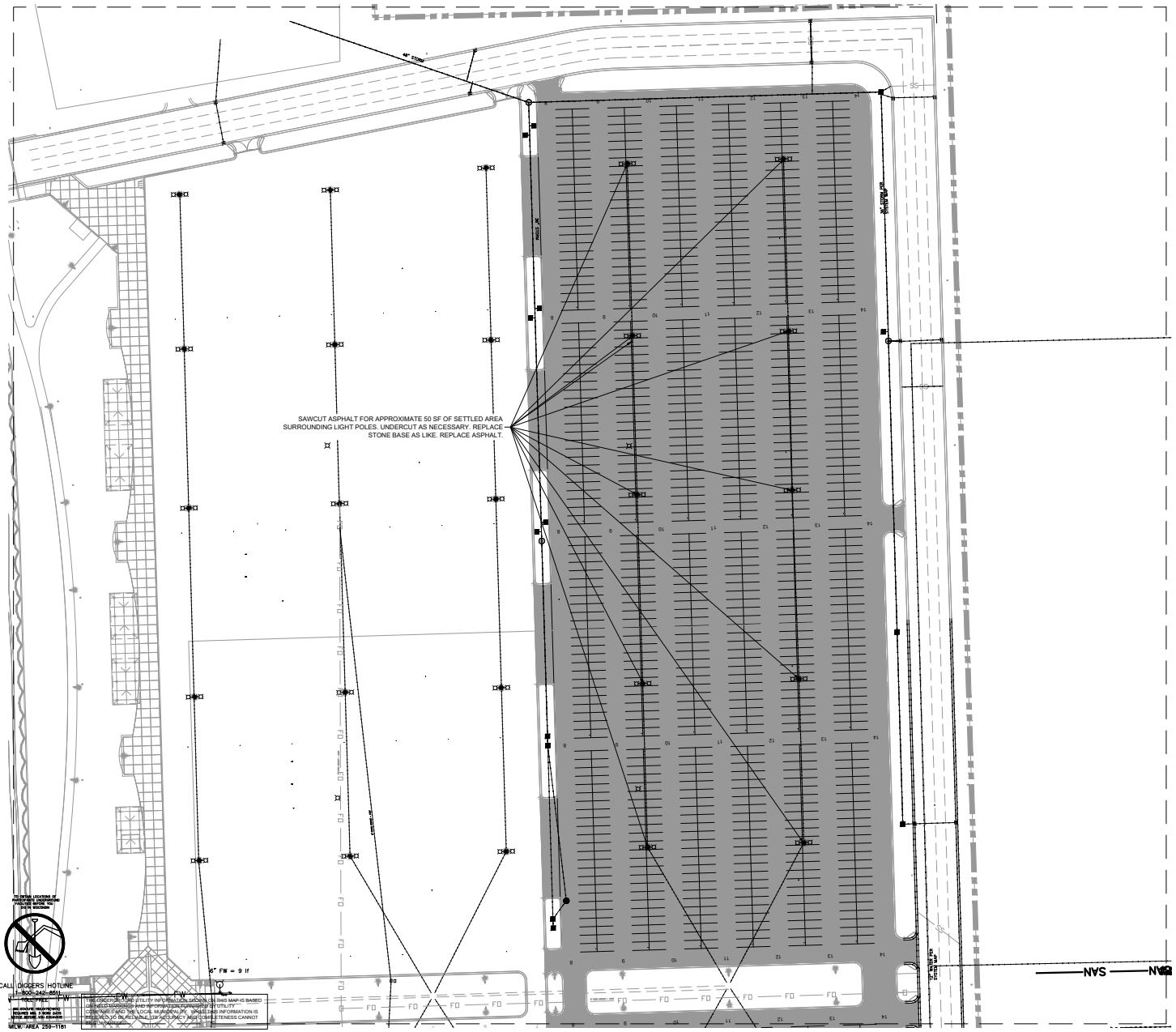

LEGEND:

2" MILL/PULVERIZE AND OVERLAY (346,963 S.F.)

NOTE:
1. LIGHT POLE BASES ARE INSUBSTANTIAL. CAUTION SHOULD BE TAKEN IN IMMEDIATE SURROUNDING AREAS TO PREVENT DAMAGE.
2. CONTRACTOR TO BUTT JOINT THE MILLED ASPHALT WHERE CONNECTION TO THE EXISTING ASPHALT EXISTS.

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Milwaukee, WI 53233
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Fax: 414-643-4210

GRAPHIC SCALE
0 50 100

AMERICAN FAMILY FIELD - WEST UECKER AND YOUNT LOT RFP
MILWAUKEE, WI 53214

SITE PLAN - NORTH LOT

PRELIMINARY NOT FOR CONSTRUCTION

ISSUANCE	DATE

NO.	REVISION	DATE

PROJECT NO:	23700
DESIGN DATE:	----
PLOT DATE:	2025.01.30
DRAWN BY:	----
CHECKED BY:	----
APPROVED BY:	----
SHEET NO:	C101

2025.01.30 CTRAUTSCHOLD C101 23700

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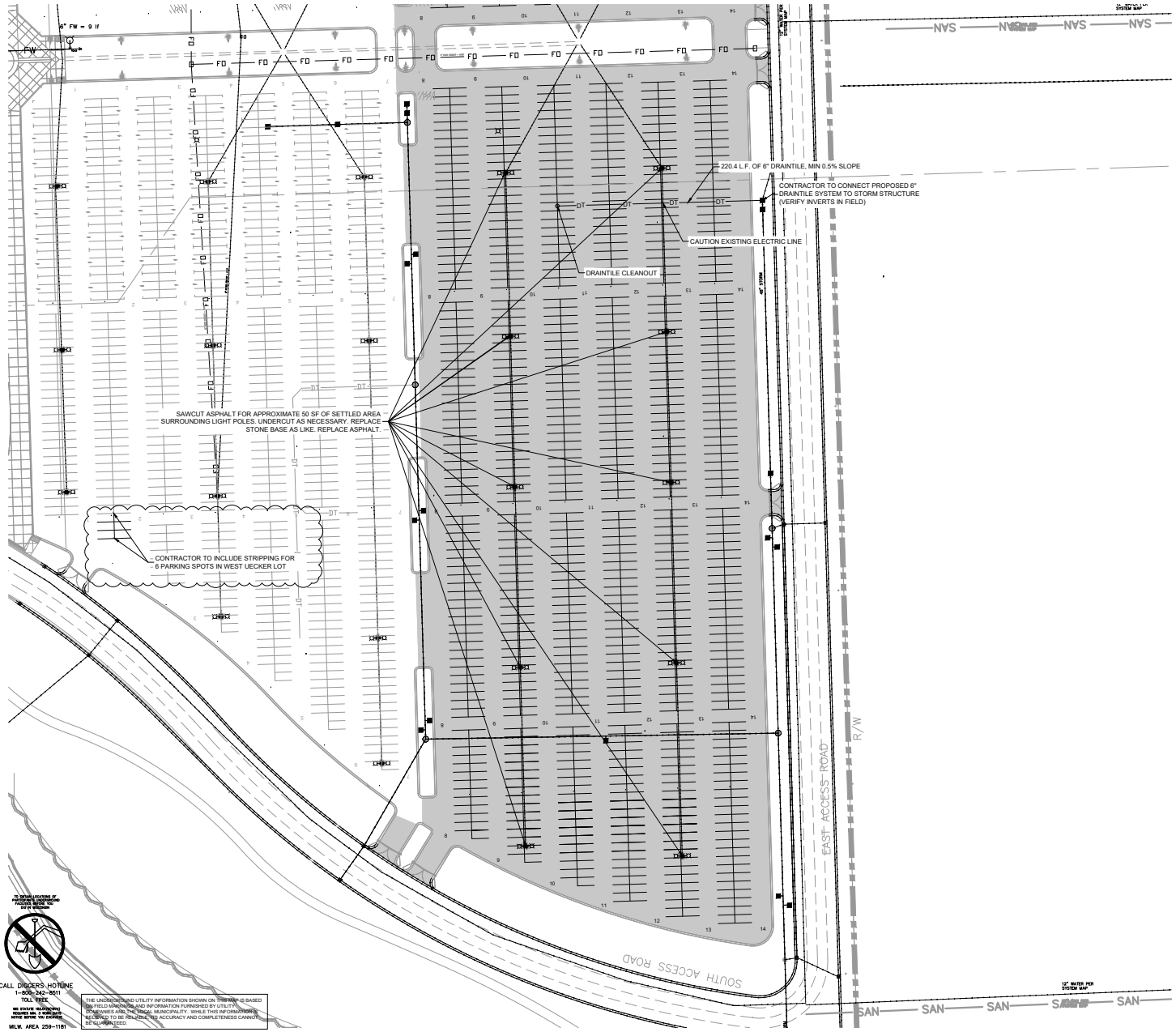

LEGEND:

- 2" MILL AND OVERLAY (329,882 S.F.)
- 6" WRAPPED DRAINTILE (220.4 L.F.)
- DRAINTILE CLEANOUT (1 QTY)

NOTE:
1. LIGHT POLE BASES ARE INSUBSTANTIAL. CAUTION SHOULD BE TAKEN IN IMMEDIATE SURROUNDING AREAS TO PREVENT DAMAGE.
2. CONTRACTOR TO BUTT JOINT THE MILLED ASPHALT WHERE CONNECTION TO THE EXISTING ASPHALT EXISTS.

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WI STATUTE 182.0175(1974M) REQUIRES YOU TO CONTACT DIGGERS HOTLINE NOTICE BEFORE YOU EXCAVATE.
MILW. AREA 259-1181

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Fax: 414-643-4210

GRAPHIC SCALE
0 50 100

AMERICAN FAMILY FIELD - EAST UECKER AND YOUNT LOT RFP
MILWAUKEE, WI 53214

SITE PLAN - SOUTH LOT

PRELIMINARY NOT FOR CONSTRUCTION

ISSUANCE	DATE

NO.	REVISION	DATE

PROJECT NO:	23700
DESIGN DATE:	----
PLOT DATE:	2025.01.30
DRAWN BY:	----
CHECKED BY:	----
APPROVED BY:	----
SHEET NO:	C102

2025.01.30 CTRAUTSCHOLD C102 23700

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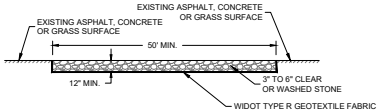
2025.01.30

EROSION CONTROL NOTES:

1. CONSTRUCTION SITE EROSION CONTROL AND SEDIMENTATION CONTROL SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL MUNICIPALITY AND SHALL EMPLOY EROSION CONTROL METHODS AS SHOWN AND SPECIFIED IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
2. ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION AFTER A RAINFALL OF 0.5 INCHES OR MORE, BUT NO LESS THAN ONCE EVERY WEEK. MAINTENANCE OF ALL EROSION CONTROL STRUCTURES SHALL BE PROVIDED TO INSURE INTENDED PURPOSE IS ACCOMPLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND REMOVAL OF ALL SEDIMENT WHEN LEAVING PROPERTY. EROSION CONTROL MEASURES MUST BE IN WORKING CONDITION AT END OF EACH WORK DAY. DOCUMENT AND MAINTAIN RECORDS OF INSPECTIONS IN ACCORDANCE WITH WDNR NR216 REQUIREMENTS.
4. SILT FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN DEPOSITS REACH A DEPTH OF 6 INCHES. THE SILT FENCE SHALL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
5. FILTER FABRIC SHALL BE INSTALLED BENEATH INLET COVERS TO TRAP SEDIMENT PER INLET PROTECTION DETAIL IN THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS.
6. EROSION CONTROL MEASURES SHALL BE MAINTAINED ON A CONTINUING BASIS UNTIL SITE IS FULLY STABILIZED.
7. PERIODIC STREET SWEEPING SHALL BE COMPLETED TO MAINTAIN ADJACENT STREETS FREE OF DUST AND DIRT.
8. SILT FENCE SHALL BE INSTALLED IN HORSESHOE FASHION AROUND ANY TOPSOIL AND FILL STOCKPILES.
9. SITE DEWATERING. WATER PUMPED FROM THE SITE SHALL BE TREATED BY SEDIMENT BASINS OR OTHER APPROPRIATE MEASURES SPECIFIED IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, ADJACENT SITES, OR RECEIVING CHANNELS.
10. WASTE AND MATERIAL DISPOSAL. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
11. TRACKING. EACH SITE SHALL HAVE GRAVELED ROADS, ACCESS DRIVES AND PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY STREET CLEANING, TO THE SATISFACTION OF THE MILWAUKEE, BEFORE THE END OF EACH WORKDAY. FLUSHING MAY NOT BE USED UNLESS SEDIMENT WILL BE CONTROLLED BY A SEDIMENT BASIN OR PRACTICE SPECIFIED IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS. NOTIFY MILWAUKEE OF ANY CHANGES IN STABILIZED CONSTRUCTION ENTRANCE LOCATION.
12. SEDIMENT CLEANUP. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORKDAY. ALL OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORKDAY.
13. ALL DISTURBED GROUND LEFT INACTIVE FOR SEVEN OR MORE DAYS SHALL BE STABILIZED BY TEMPORARY OR PERMANENT SEEDING, MULCHING, SODDING, COVERING WITH TARPS, OR EQUIVALENT PRACTICE FOUND IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD. IF TEMPORARY SEEDING IS USED, A PERMANENT COVER SHALL ALSO BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION. SEEDING OR SODDING SHALL BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION.
14. SOIL OR DIRT STORAGE PILES SHALL BE LOCATED A MINIMUM OF TWENTY-FIVE FEET FROM ANY DOWNSLOPE ROAD, LAKE, STREAM, WETLAND, OR DRAINAGE CHANNEL. STRAW BALE OR FILTER FABRIC FENCES SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE PILES. IF REMAINING FOR MORE THAN THIRTY DAYS, PILES SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPS OR OTHER MEANS.
15. WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY PRACTICES, SUCH AS FILTER FABRIC FENCES, STRAW BALES, SEDIMENT AND SEDIMENT TRAPS, FOUND IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS SHALL BE REMOVED.
16. NOTIFY THE LOCAL MUNICIPALITY HAVING JURISDICTION WITHIN TWO WORKING DAYS OF COMMENCING ANY LAND DEVELOPMENT OR LAND DISTURBING ACTIVITY.
17. OBTAIN PERMISSION FROM THE LOCAL MUNICIPALITY HAVING JURISDICTION PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
18. REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPMENT OR LAND DISTURBING ACTIVITIES.
19. KEEP A COPY OF THE EROSION CONTROL PLAN ON SITE.
20. CONTRACTOR SHALL, TO THE EXTENT POSSIBLE, MINIMIZE DISTURBANCE OF EXISTING VEGETATION DURING CONSTRUCTION.
21. CONTRACTOR SHALL, TO THE EXTENT POSSIBLE, MINIMIZE COMPACTION OF TOPSOIL AND PRESERVE TOPSOIL IN GREENSPACE AREAS.
22. WASH WATER FROM VEHICLES AND WHEEL WASHING SHALL BE CONTAINED AND TREATED PRIOR TO DISCHARGE.
23. CONTRACTOR SHALL MAINTAIN SPILL KITS ON-SITE.
24. PERMANENT TURF SEEDING OF DISTURBED AREA MUST OCCUR PRIOR TO SEPTEMBER 15TH. IF ADEQUATE TIME IS NOT AVAILABLE TO APPLY PERMANENT SEEDING PRIOR TO SEPTEMBER 15TH, THEN DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH AN ANNUAL RYE GRASS PER WDNR TECHNICAL STANDARD 1059, WHERE THE TEMPORARY SEEDING MUST OCCUR PRIOR TO OCTOBER 15TH.
25. IF TEMPORARY SEEDING IS NOT COMPLETED BY OCTOBER 15TH, APPLY SOIL STABILIZERS AND DORMANT SEED TO DISTURBED AREA PER WDNR TECHNICAL STANDARD 1050. INSPECT ANIONIC PAM APPLICATION AT A MINIMUM FREQUENCY OF EVERY TWO MONTHS AND REAPPLY AS NECESSARY

CONSTRUCTION SEQUENCE FOR EROSION CONTROL INCLUDES:

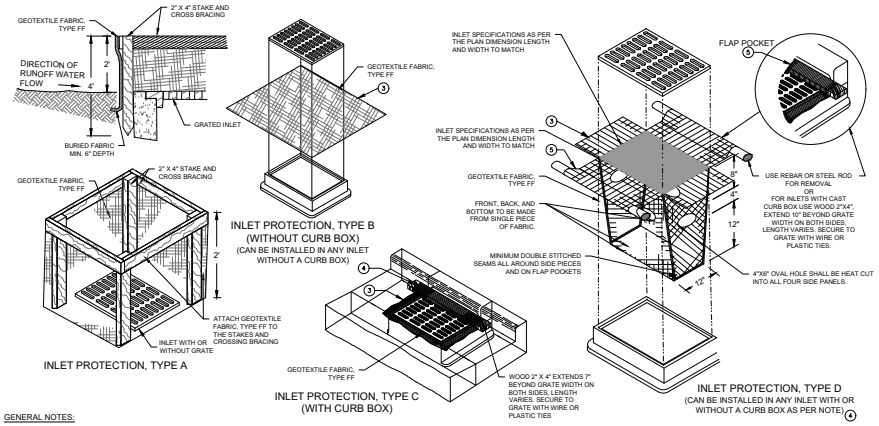
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCING AND INLET PROTECTION.
3. INITIATE STOCKPILING OF IMPORTED MATERIAL. PLACE SILT FENCE AROUND STOCKPILE(S).
4. PERFORM ROUGH SITE GRADING. STABILIZE FINISHED AREAS AS THE WORK PROGRESSES.PREPARE BUILDING PAD AND BEGIN FOUNDATIONS WORK FOR BUILDING.
5. INSTALL UTILITIES. INSTALL ANY ADDITIONAL INLET PROTECTION ON NEW STORM SEWER.
6. INSTALL PAVEMENTS.
7. STABILIZE AREAS REMAINING AREAS WITHIN 7 DAYS OF COMPLETION OF FINAL GRADING.
8. REMOVE EROSION CONTROL MEASURES ONLY WHEN SITE IS FULLY STABILIZED.



GENERAL NOTE:

1. STONE TRACKING PAD SHALL CONFORM TO WDNR CONSERVATION PRACTICE STANDARD #1057
2. AN APPROVED MANUFACTURED TRACKOUT CONTROL DEVICE SYSTEM CONFORMING TO WDNR TECHNICAL STANDARD #1057 MAY BE USED AS AN ALTERNATIVE TO A STONE TRACKING PAD

A CONSTRUCTION ENTRANCE - WDNR TS-1057
SCALE: 1" = 1'



GENERAL NOTES:

1. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
2. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

(3) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL

(4) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

(5) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

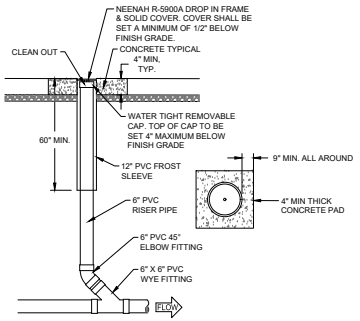
6. INLET PROTECTION SHALL CONFORM TO WDNR CONSERVATION PRACTICE STANDARD #1060
7. THIS DRAWING IS BASED ON WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD DETAIL DRAWING 8 E 10-2

B INLET PROTECTION - WDNR TS-1060
SCALE: 1" = 1'

INSTALLATION NOTES:

TYPE B & C
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACES AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



COMM TABLE 82.35

DIA. OF LATERAL	MIN. DI. OF CLEANOUT RISER	MIN. DI. OF RISER CAP
1.5	1.5	1.5
2	1.5	1.5
3	3	2.5
4	4	3.5
5	5	4
6	6	5
8+	6	6

C CLEANOUT
SCALE: 1" = 1'

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AMERICAN FAMILY FIELD - EAST UECKER AND YOUNT LOT RFP
MILWAUKEE, WI 53214

DETAILS

PRELIMINARY NOT FOR CONSTRUCTION

ISSUANCE	DATE

NO.	REVISION	DATE

PROJECT NO:	23700
DESIGN DATE:	----
PLOT DATE:	2025.01.30
DRAWN BY:	----
CHECKED BY:	----
APPROVED BY:	----
SHEET NO:	C400

CTRAUTSCHOLD
C400
23700

2025.01.30

GENERAL:

1. EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY, AND NO RESPONSIBILITY IS ASSUMED BY THE OWNER OR ENGINEER FOR THEIR ACCURACY OR COMPLETENESS.
2. CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR SHALL HAVE SITE MARKED BY DIGGER'S HOTLINE AND SHALL HAVE PRIVATE UTILITIES MARKED BY A PRIVATE UTILITY LOCATOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL ELEVATIONS, LOCATIONS, AND SIZES OF EXISTING UTILITIES AND SHALL CHECK ALL UTILITY CROSSINGS AND PROPOSED CONNECTIONS FOR CONFLICTS/DISCREPANCIES PRIOR TO INITIATING CONSTRUCTION. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE ENGINEER SO REDESIGN MAY OCCUR IF NEEDED.
3. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLANS. LENGTHS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

SITE CLEARING:

1. EXCEPT FOR STRIPPED TOPSOIL OR OTHER MATERIALS INDICATED TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM PROJECT SITE.
2. MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS.
3. SALVABLE IMPROVEMENTS: CAREFULLY REMOVE ITEMS INDICATED TO BE SALVAGED AND STORE ON OWNER'S PREMISES WHERE INDICATED.
4. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING.
5. DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE.
6. PROTECT AND MAINTAIN BENCHMARKS AND SURVEY CONTROL POINTS FROM DISTURBANCE DURING CONSTRUCTION.
7. LOCATE AND CLEARLY FLAG TREES AND VEGETATION TO REMAIN OR TO BE RELOCATED.
8. PROTECT EXISTING SITE IMPROVEMENTS TO REMAIN FROM DAMAGE DURING CONSTRUCTION; RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO OWNER.
9. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF UTILITIES INDICATED TO BE REMOVED; ARRANGE WITH UTILITY COMPANIES TO SHUT OFF INDICATED UTILITIES.
10. EXISTING UTILITIES: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED BY THE OWNER AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES.
11. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED; PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING A LOOSE DEPTH OF 8 INCHES, AND COMPACT EACH LAYER TO A DENSITY EQUAL TO ADJACENT ORIGINAL GROUND.
12. REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL.
13. STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
14. STOCKPILE TOPSOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.
15. REMOVE EXISTING ABOVE- AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION.
16. SAWCUT ALL PAVEMENTS FULL DEPTH PRIOR TO REMOVAL; SAWCUTS SHALL BE IN STRAIGHT LINES PERPENDICULAR AND/OR PARALLEL TO EXISTING PAVEMENT JOINTS AND PAVEMENT EDGES.
17. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
18. SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER NONRECYCLABLE MATERIALS. STORE OR STOCKPILE WITHOUT INTERMIXING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING FACILITIES.

STORM DRAINAGE:

1. ALL PRIVATE STORM SEWER WORK SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) PLUMBING CODE - CHAPTERS SPS 382 AND SPS 384 AND LOCAL MUNICIPAL REQUIREMENTS.
2. ALL PUBLIC STORM SEWER WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION (STANDARD SPECIFICATIONS) AND LOCAL MUNICIPAL REQUIREMENTS.
3. PVC SEWER PIPE AND FITTINGS: ASTM D 3034, SDR 35, WITH BELL-AND-SPIGOT ENDS WITH RUBBER GASKETED JOINTS IN ACCORDANCE WITH CHAPTER 8.10.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION. JOINTS SHALL CONFORM TO ASTM D-3212.
4. REINFORCED CONCRETE PIPE: ASTM C76 WITH BELL AND SPIGOT ENDS AND GASKETED JOINTS WITH ASTM C443 RUBBER GASKETS IN ACCORDANCE WITH CHAPTER 8.6.0 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.
5. HDPE PIPE: ADS N12 PIPE AS APPROVED ON THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PLUMBING PRODUCT REGISTER.
6. CATCH BASINS: STANDARD PRECAST CONCRETE CATCH BASINS CONFORMING TO CHAPTER 3.6.0 OF THE STANDARD SPECIFICATIONS AND IN GENERAL CONFORMANCE WITH FILE NO. 26 OF THE STANDARD SPECIFICATIONS. DEPTH AND DIAMETER AS INDICATED ON PLANS. CATCH BASIN SIZES TO BE VERIFIED BY CONTRACTOR AND SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING STRUCTURES.
7. FRAMES AND GRATES: AS INDICATED ON PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SPECIFIED FRAME/GRATE IS COMPATIBLE WITH STRUCTURE; IF NOT, NOTIFY ENGINEER.
8. MANHOLES: STANDARD PRECAST REINFORCED CONCRETE MANHOLES CONFORMING TO ASTM C478, SECTION 8.39.0 OF THE STANDARD SPECIFICATIONS AND CONFORMING TO FILE NOS. 12, 13 AND 15 OF THE STANDARD SPECIFICATIONS. DIAMETER AND DEPTH AS INDICATED ON PLANS. MANHOLE SIZES TO BE VERIFIED BY CONTRACTOR AND SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING STRUCTURES.
9. MANHOLES AND CATCH BASINS DEEPER THAN FOUR FEET SHALL BE PROVIDED WITH MANHOLE STEPS CONFORMING TO SECTION 8.40.0 OF THE STANDARD SPECIFICATIONS.
10. SEWERS SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 3.2.0 OF THE STANDARD SPECIFICATIONS. INSTALL PROPER SIZE INCREASERS, REDUCERS AND COUPLINGS WHERE DIFFERENT SIZES OR MATERIALS OF PIPES AND FITTINGS ARE CONNECTED. INSTALL TRACER PIPE OVER NON-METALLIC PIPING IN ACCORDANCE WITH SPS SECTION 382.30(11)(H) AND 382.36(7)(D).
11. PROVIDE AND INSTALL CLEANOUTS IN ACCORDANCE WITH SPS CHAPTER 382.35. INSTALL CLEANOUTS AND RISER EXTENSIONS FORM SEWER PIPES TO PROPOSED GRADE. INSTALL PIPING SO CLEANOUTS OPEN IN DIRECTION OF FLOW IN SEWER PIPE. USE LIGHT DUTY, TOP LOADING CLASSIFICATION CLEANOUTS IN EARTH OR UNPAVED FOOT TRAFFIC AREAS; USE MEDIUM DUTY, TOP-LOADING CLASSIFICATION CLEANOUTS IN PAVED FOOT TRAFFIC AREAS; USE HEAVY DUTY, TOP-LOADING CLASSIFICATION CLEANOUTS IN VEHICULAR TRAFFIC AREAS. SET CLEANOUT FRAMES AND COVERS IN PAVEMENT AREAS FLUSH WITH PAVEMENT SURFACE.
12. CLASS B COMPACTED TRENCH SECTION (FILE NO. NO. 4 OF STANDARD SPECIFICATIONS) SHALL BE UTILIZED. BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.43.0 OF THE STANDARD SPECIFICATIONS.
13. TRENCH BACKFILL MATERIAL SHALL BE GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF THE STANDARD SPECIFICATIONS BENEATH AND WITHIN FIVE FEET OF PAVEMENT AREAS; COMPACTED SPOIL BACKFILL IN ACCORDANCE WITH SECTION 8.43.5 OF THE STANDARD SPECIFICATIONS MAY BE USED BENEATH LANDSCAPE AREAS.
14. MANHOLE INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 3.5.0 OF THE STANDARD SPECIFICATIONS. SET MANHOLE RIMS TO ELEVATIONS INDICATED ON PLANS.
15. CATCH BASIN INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 3.6 OF THE STANDARD SPECIFICATIONS. CATCH BASIN EXCAVATION AND PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 3.5.4(A) AND (B) OF THE STANDARD SPECIFICATIONS. FRAMES AND GRATES SHALL BE SET TO THE ELEVATIONS SHOWN ON THE PLANS.
16. AFTER INSTALLATION OF SEWER PIPE CLEAN ALL DEBRIS FROM SEWER AND INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. CONDUCT DEFLECTION TESTING OF INSTALLED PIPE IN ACCORDANCE WITH SECTION 3.2.6(I)4 OF THE STANDARD SPECIFICATIONS; REPLACE ANY PIPE SECTION NOT PASSING THE DEFLECTION TESTING USING NEW PIPE MATERIALS.

EARTH MOVING:

1. ALL EARTH WORK SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER AND PROVIDED REPORTS. IN THE FIELD AND THESE SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN THESE SPECIFICATIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER SHALL GOVERN.
2. CONTRACTOR SHALL PROVIDE MATERIAL TEST REPORTS FROM A QUALIFIED TESTING AGENCY INDICATING TEST RESULTS FOR CLASSIFICATION ACCORDING TO ASTM D2487 AND LABORATORY COMPACTION CURVES ACCORDING TO ASTM D 1557 FOR EACH ON-SITE AND OFF-SITE SOIL MATERIAL PROPOSED FOR FILL AND BACKFILL.
3. CONTRACTOR SHALL PROVIDE PREEXCAVATION PHOTOS OR VIDEOS SHOWING EXISTING CONDITIONS OF ADJOINING STRUCTURES AND SITE IMPROVEMENTS THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY EARTHWORK OPERATIONS.
4. THE SITE IS KNOWN TO CONTAIN ENVIRONMENTALLY CONTAMINATED SOILS. REFER TO THE REMEDIAL ACTION PLAN PREPARED BY THE SIGMA GROUP, INC. FOR DETAILS. SOILS SHALL BE MANAGED IN ACCORDANCE WITH THE SOIL MANAGEMENT PLAN. ANY SOILS OR MATERIAL HAULED OFF SITE SHALL BE DISPOSED OF IN A LEGAL FASHION.
5. OLD BUILDING FOUNDATIONS, BUILDING REMNANTS OR UNSUITABLE BACKFILL MATERIAL SHALL BE COMPLETELY REMOVED FROM WITHIN AND A MINIMUM OF 10 FEET BEYOND THE NEW BUILDING PAD AREAS. THE RESULTING EXCAVATION SHALL BE BACKFILLED WITH COMPACTED ENGINEERED FILL.
6. FOUNDATIONS, FOUNDATION WALLS OR CONCRETE FLOOR SLABS SHALL BE REMOVED TO A MINIMUM OF TWO FEET BELOW PROPOSED SUBGRADE WITHIN PROPOSED PARKING AND GREENSPACE AREAS. BASEMENT SLABS LOCATED BELOW 2 FEET FROM PLANNED SUBGRADE ELEVATION MAY BE LEFT IN PLACE BUT SHALL BE BROKEN INTO MAXIMUM 6 INCH PIECES TO FACILITATE DRAINAGE.
7. SATISFACTORY SOILS FOR FILL: ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER OR ANY SOIL GROUP OR COMBINATION OF GROUPS APPROVED OF BY THE PROJECT GEOTECHNICAL ENGINEER.
8. UNSATISFACTORY SOILS FOR FILL: SOIL CLASSIFICATION GROUPS GC, SC, CL, ML, OL, CH, MH, OH, AND PT ACCORDING TO ASTM D 2487 OR A COMBINATION OF THESE GROUPS UNLESS DEEMED SATISFACTORY BY THE PROJECT GEOTECHNICAL ENGINEER. UNSATISFACTORY SOILS ALSO INCLUDE SOILS NOT MAINTAINED WITHIN 3 PERCENT OF OPTIMUM SOIL MOISTURE CONTENT AT THE TIME OF COMPACTION.
9. AGGREGATE BASE COURSE BENEATH PAVEMENTS: SHALL BE 1-1/4" DENSE GRADED BASE COURSE CONFORMING TO SECTION 305 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION.
10. ENGINEERED FILL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; WITH AT LEAST 90 PERCENT PASSING A 1-1/2-INCH (37.5-MM) SIEVE AND NOT MORE THAN 12 PERCENT PASSING A NO. 200 SIEVE OR ANY SOIL DEEMED ACCEPTABLE FOR ENGINEERED FILL BY THE PROJECT GEOTECHNICAL ENGINEER. ENGINEERED FILL SHALL BE FREE OF ORGANIC, FROZEN, OR OTHER DELETERIOUS MATERIAL AND HAVE A MAXIMUM PARTICLE SIZE LESS THAN 3 INCHES. CLAY FILLS SHALL HAVE A LIQUID LIMIT OF LESS THAN 49 AND PLASTICITY INDEX BETWEEN 11 AND 25.
11. BEDDING COURSE FOR SEWERS AND WATER SERVICE: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND CONFORMING TO THE REQUIREMENTS OF SECTION 8.43.2 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.
12. DRAINAGE COURSE BENEATH BUILDING SLABS: NARROWLY GRADED MIXTURE OF WASHED, CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 57; WITH 100 PERCENT PASSING A 1-1/2-INCH (37.5-MM) SIEVE AND 0 TO 5 PERCENT PASSING A NO. 8 SIEVE.
13. TRENCH BACKFILL MATERIAL SHALL BE GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF THE STANDARD SPECIFICATIONS BENEATH AND WITHIN FIVE FEET OF PAVEMENT AREAS; COMPACTED SPOIL BACKFILL IN ACCORDANCE WITH SECTION 8.43.5 OF THE STANDARD SPECIFICATIONS MAY BE USED BENEATH LANDSCAPE AREAS.
14. PIPE COVER MATERIAL: CONFORM TO SECTION 8.43.3 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.
15. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA.
16. SHORING, SHEETING AND BRACING: SHORE, BRACE OR SLOPE BANKS OF EXCAVATION TO PROTECT WORKWEN, BANKS, ADJACENT PAVING, STRUCTURES, AND UTILITIES TO MEET OSHA REQUIREMENTS. DESIGN OF TEMPORARY SUPPORT OF EXCAVATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
17. EXCAVATE TO SUBGRADE ELEVATIONS REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS ENCOUNTERED. UNCLASSIFIED EXCAVATED MATERIALS MAY INCLUDE ROCK, SOIL MATERIALS, AND OBSTRUCTIONS. NO CHANGES IN THE CONTRACT SUM OR THE CONTRACT TIME WILL BE AUTHORIZED FOR ROCK EXCAVATION OR REMOVAL OF OBSTRUCTIONS.
18. PROOF-ROLL SUBGRADE BELOW THE BUILDING SLABS AND PAVEMENTS WITH FULLY LOADED TANDEM AXLE DUMP TRUCK OR RUBBER TIRED VEHICLE OF SIMILAR SIZE AND WEIGHT, TYPICALLY 9 TONS/AXLE, WHERE COHESIVE SOILS ARE ENCOUNTERED OR WITH A SMOOTH DRUMMED VIBRATORY ROLLER WHERE GRANULAR SOILS ARE PRESENT. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES AND PROOFROLL IN DRY WEATHER. PROOF ROLL IN PRESENCE OF PROJECT GEOTECHNICAL ENGINEER OR TECHNICIAN. SOILS THAT ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY UNDER THE MOVING LOAD (TYPICALLY >1") SHALL BE UNDERCUT AND REPLACED WITH PROPERLY COMPACTED ENGINEERED FILL. IN PAVEMENT AREAS WHERE UNDERCUTS ARE PERFORMED, THE EDGES OF THE OVEREXCAVATIONS SHALL BE FEATHERED INOT THE SURROUNDING SUITABLE SOIL SO THAT EDGE FAILURE OF THE OVEREXCAVATED AREA DOES NOT OCCUR.
19. DUE TO CLAYEY SOILS, IF UNDERCUTS OCCUR WITHIN PAVEMENT AREAS AND THEY ARE BACKFILLED WITH GRANULAR SOILS, THE BOTTOM OF THE OVEREXCAVATION SHALL BE SLOPED TO A DRAINTILE THAT IS IN KIND SLOPED TOWARD THE NEAREST STORM SEWER. MINIMUM SLOPES OF SUCH DRAINTILES SHALL BE 0.5%.
20. CONVENTIONAL DISKING AND AERATION TECHNIQUES SHALL BE USED TO DRY SOILS BEFORE PROOF ROLLING. ALLOT FOR PROPER DRYING TIME IN PROJECT SCHEDULE.
21. ENGINEERED FILL SHALL BE PLACED IN MAXIMUM LIFTS OF EIGHT INCHES OF LOOSE MATERIAL AND COMPACTED WITHIN 3% OF OPTIMUM SOIL MOISTURE CONTENT VALUE AND A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST ASTM D1557. EACH LIFT OF COMPACTED ENGINEERED FILL SHALL BE OBSERVED AND TESTED BY A QUALIFIED GEOTECHNICAL ENGINEER OR TECHNICIAN.
22. EXISTING OLD FILL MATERIAL SHALL BE REMOVED BELOW FOOTINGS OR FOUNDATION SUPPORTING FILL. ENGINEERED FILL BELOW FOOTINGS SHOULD HAVE AN IN-PLACE DENSITY OF 95% OF THE MAXIMUM DRY DENSITY AND A MOISTURE CONTENT WITHIN 3% OF OPTIMUM AS DETERMINED BY ASTM D1557. ENGINEERED FILL BELOW FOOTINGS SHALL BE EVALUATED BY IN-FIELD DENSITY TESTS DURING CONSTRUCTION.
23. WHERE UNSUITABLE BEARING SOILS ARE ENCOUNTERED IN A FOOTING EXCAVATION, THE EXCAVATION SHALL BE DEEPENED TO COMPETENT BEARING SOIL AND THE FOOTING LOWERED OR AN OVEREXCAVATION AND BACKFILL PROCEDURE PERFORMED. OVEREXCATION AND BACKFILL TREATMENT REQUIRES WIDENING THE DEEPENED EXCAVATION IN ALL DIRECTIONS AT LEAST 6 INCHES BEYOND THE EDGE OF THE FOOTING FOR EACH 12 INCHES OF OVEREXCAVATION DEPTH. THE OVEREXCAVATION SHALL BE BACKFILLED UP TO FOOTING BASE ELEVATION IN MAXIMUM 8 INCH LOOSE LIFTS WITH SUITABLE GRANULAR FILL MATERIAL AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AND A MOISTURE CONTENT WITHIN 3% OF OPTIMUM AS DETERMINED BY ASTM D1557. SOILS AT FOUNDATION BEARING ELEVATION IN THE FOOTING EXCAVATIONS SHALL BE OBSERVED AND TESTED BY A QUALIFIED GEOTECHNICAL ENGINEER OR TECHNICIAN.
24. A MINIMUM OF FOUR INCHES OF DRAINAGE COURSE MAT SHALL BE PLACED BELOW BUILDING FLOOR SLABS. DRAINAGE COURSE SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION WITH RESPECT TO THE MODIFIED PROCTOR (ASTM D1557)
25. UTILITY TRENCHES FOR SEWER AND WATER SHALL CONFORM TO CLASS B COMPACTED TRENCH SECTION IN ACCORDANCE WITH FILE NO. 4 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.
25. BACKFILL UTILITY TRENCHES IN 4 TO 6 INCH LOOSE LIFTS COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. BACKFILL SHALL BE MOISTURE CONDITIONED TO BE WITH 3% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557.
26. UTILITY BEDDING PLACEMENT: CONFORM TO SECTION 3.2.6 OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION. BEDDING MATEERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% COMPACTION WITH RESPECT TO THE MODIFIED PROCTOR (ASTM D1557).
27. COMPACTION TESTING OF UTILITY TRENCHES SHALL BE PERFORMED FOR EVERY 200 CUBIC YARDS OF BACKFILL PLACED OR EACH LIFT WITHIN 200 LINEAR FEET OF TRENCH, WHICHEVER IS LESS.
28. AGGREGATE BASE COURSE BENEATH PAVEMENTS SHALL BE PLACED AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 3% OF OPTIMUM AS DETERMINED BY ASTM D1557. AGGREGATE BASE SHALL BE OBSERVED AND TESTED BY A QUALIFIED GEOTECHNICAL ENGINEER OR TECHNICIAN.
29. GRADING GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED. SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING.
30. TESTING AGENCY: CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM FIELD QUALITY-CONTROL TESTING.
31. FOOTING SUBGRADE TESTING: EACH ISOLATED FOOTING SHALL INCLUDE AT LEAST ONE TEST PROBE. TEST PROBES SHALL BE PERFORMED EVERY 20 LINEAR FEET IN CONTINUOUS FOOTINGS.
32. BUILDING SLAB AREA TESTING: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 1 TEST PER LIFT FOR EVERY 2500 SQ. FT. OR LESS OF BUILDING SLAB, BUT IN NO CASE FEWER THAN 3 TESTS.
33. PAVEMENT AREA TESTING: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST ONE TEST FOR EVERY LIFT FOR EVERY 2,500 SQUARE FEET OF PAVEMENT AREA, BUT IN NO CASES FEWER THAN 3 TESTS.
34. UTILITY TRENCH BACKFILL TESTING: ONE TEST FOR EACH 200 CUBIC YARDS OF FILL BACKFILL PLACED OR ONE TEST PER 200 LINEAR FEET OF TRENCH FOR EACH LIFT; WHICHEVER IS LESS.
35. FOUNDATION WALL BACKFILL: AT EACH COMPACTED BACKFILL LAYER, AT LEAST 1 TEST PER LIFT FOR EACH 50 FEET OR LESS OF WALL LENGTH, BUT NO FEWER THAN 2 TESTS.
36. WHEN TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
37. DISPOSAL: REMOVE SURPLUS SOIL AND WASTE MATERIAL, INCLUDING UNSATISFACTORY SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF IT OFF OWNER'S PROPERTY.

ASPHALTIC PAVING:

1. THE COMPOSITION, PLACING AND CONSTRUCTION OF ASPHALTIC PAVEMENTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460, 465, AND 475 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION (WISDOT STANDARD SPECIFICATIONS).
2. CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED - INCLUDE TECHNICAL DATA AND TESTED PHYSICAL AND PERFORMANCE PROPERTIES; JOB-MIX DESIGNS: CERTIFICATION THAT MIX MEETS OR EXCEEDS WISDOT STANDARD SPECIFICATIONS; AND MATERIAL CERTIFICATES CERTIFYING COMPLIANCE WITH WISDOT STANDARD SPECIFICATIONS.
3. MANUFACTURER QUALIFICATIONS: MANUFACTURER SHALL BE REGISTERED WITH AND APPROVED BY THE DOT OF THE STATE IN WHICH PROJECT IS LOCATED.
4. ENVIRONMENTAL LIMITATIONS: DO NOT APPLY ASPHALT MATERIALS IF BASE COURSE IS WET OR EXCESSIVELY DAMP OR IF THE FOLLOWING CONDITIONS ARE NOT MET: APPLY TACK COAT WHEN AMBIENT TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35 DEGREES FAHRENHEIT FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION; PLACE ASPHALTIC CONCRETE SURFACE COURSE WHEN TEMPERATURE IS ABOVE 40 DEGREES FAHRENHEIT; BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30 DEGREES FAHRENHEIT AND RISING. PROCEED WITH PAVEMENT MARKING ONLY ON CLEAN, DRY SURFACES. DO NOT APPLY BELOW THE MINIMUM PAVEMENT TEMPERATURE AS RECOMMENDED BY THE MANUFACTURER.
5. AGGREGATES SHALL BE IN ACCORDANCE WITH SECTION 460.2.2 OF THE WISDOT STANDARD SPECIFICATIONS.
6. ASPHALT MATERIALS SHALL BE IN ACCORDANCE WITH CHAPTER 455 OF THE WISDOT STANDARD SPECIFICATIONS.
7. PAVEMENT MARKING PAINT: PROVIDE PAINT FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCTS LIST. COLOR SHALL BE WHITE UNLESS INDICATED OTHERWISE ON PLANS.
8. HOT-MIX ASPHALT: ASPHALTIC BINDER COURSE AND SURFACE COURSE SHALL BE MIXTURE LT FOR REGULAR DUTY PAVEMENT AND LT FOR HEAVY DUTY PAVEMENT COMPLYING WITH THE WISDOT STANDARD SPECIFICATIONS. ASPHALTIC BINDER SHALL BE 58-28 S UNLESS NOTED.
9. AGGREGATE BASE COURSE BENEATH PAVEMENTS: SHALL BE 1-1/4" DENSE GRADED BASE COURSE CONFORMING TO SECTION 305 OF THE WISDOT STANDARD SPECIFICATIONS.
10. PAVEMENT PLACEMENT GENERAL: ASPHALT CONCRETE PAVING EQUIPMENT, WEATHER LIMITATIONS, JOB-MIX FORMULA, MIXING, CONSTRUCTION METHODS, COMPACTION, FINISHING, TOLERANCE AND PROTECTION SHALL CONFORM TO THE REQUIREMENTS OF THE APPROPRIATE SECTIONS OF THE WISDOT STANDARD SPECIFICATIONS.
11. PREPARE AND PROOFROLL SUBGRADES AND AGGREGATE BASE COURSE AS OUTLINED IN EARTH MOVING SPECIFICATIONS PRIOR TO PLACEMENT OF ASPHALT PAVEMENTS.
12. SWEEP LOOSE GRANULAR PARTICLES FROM SURFACE OF AGGREGATE BASE COURSE PRIOR TO PAVEMENT PLACEMENT. DO NOT DISLODGE OR DISTURB AGGREGATE EMBEDDED IN COMPACTED SURFACE OF BASE COURSE.
13. SPREAD AND FINISH ASPHALTIC MIXTURE IN ACCORDANCE WITH SECTION 450.3.2.5 OF THE WISDOT STANDARD SPECIFICATIONS. PAVEMENT THICKNESSES SHALL BE AS INDICATED ON THE PLANS.
14. PROMPTLY CORRECT SURFACE IRREGULARITIES IN PAVING COURSE BEHIND PAVER. USE SUITABLE HAND TOOLS TO REMOVE EXCESS MATERIAL FORMING HIGH SPOTS. FILL DEPRESSIONS WITH HOT-MIX ASPHALT TO PREVENT SEGREGATION OF MIX; USE SUITABLE HAND TOOLS TO SMOOTH SURFACE.
15. COMPACT ASPHALTIC PAVEMENT IN ACCORDANCE WITH SECTION 450.3.2.6 OF THE WISDOT STANDARD SPECIFICATIONS.
16. PROTECTION: AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVEMENT UNTIL IT HAS COOLED AND HARDENED. ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME MARKED.
17. THICKNESS TOLERANCE: COMPACT EACH COURSE TO PRODUCE THE THICKNESS INDICATED WITHIN PLUS/MINUS ¼ INCH FOR BINDER COURSE AND PLUS ¼ INCH FOR SURFACE COURSE, NO MINUS.
18. SURFACE SMOOTHNESS TOLERANCE: COMPACT EACH COURSE TO PRODUCE A SURFACE SMOOTHNESS WITHIN THE FOLLOWING TOLERANCES AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED TRANSVERSELY OR LONGITUDINALLY TO PAVED AREAS: BINDER COURSE: ¼ INCH; SURFACE COURSE: 1/8 INCH. REMOVE AND REPLACE ALL HUMPS OR DEPRESSIONS EXCEEDING THE SPECIFIED TOLERANCES.
19. DO NOT APPLY PAVEMENT-MARKING PAINT UNTIL LAYOUT, COLORS, AND PLACEMENT HAVE BEEN VERIFIED WITH ENGINEER.
20. APPLY MARKINGS TO A DRY SURFACE FREE FROM FROST. REMOVE DUST, DIRT, OIL, GREASE, GRAVEL, DEBRIS OR OTHER MATERIAL THAT MAY PREVENT BONDING TO THE PAVEMENT.
21. APPLY PAINT AS THE MANUFACTURER SPECIFIES WITH MECHANICAL EQUIPMENT TO PRODUCE PAVEMENT MARKINGS, OF DIMENSIONS INDICATED, WITH UNIFORM, STRAIGHT EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES AT A MINIMUM RATE OF 17.6 GALLONS/MILE FOR A CONTINUOUS 4" LINE.
22. TESTING AGENCY: CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND TO PREPARE TEST REPORTS.

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MILWAUKEE, WI 53214

SPECIFICATIONS

PRELIMINARY NOT FOR CONSTRUCTION

ISSUANCE	DATE

NO. REVISION	DATE

PROJECT NO:	23700
DESIGN DATE:	----
PLOT DATE:	2025.01.30
DRAWN BY:	----
CHECKED BY:	----
APPROVED BY:	----
SHEET NO:	C500

CTRAUTSCHOLD

C500

23700

Section 450 General Requirements for Asphaltic Pavements

450.1 Description

(1) This section describes requirements common to plant mixed asphaltic bases and pavements. Exceptions and additional requirements are specified in 455 through 475.

450.2 Materials

450.2.1 Acronyms and Definitions

(1) Interpret materials related acronyms used in sections 450 through 499 as follows:

FRAP	Fractioned reclaimed asphaltic pavement
HMA	Hot mix asphalt
JMF	Job mix formula
PG	Performance graded
RAP	Reclaimed asphaltic pavement
RAS	Recycled asphalt shingles
SMA	Stone matrix asphalt
VMA	Voids in mineral aggregate
WMA	Warm mix asphalt

(2) Interpret materials related definitions used in sections 450 through 499 as follows:

Additive	A material blended with asphaltic binder or aggregate to enhance the characteristics of the final HMA blend, but that does not alter the binder performance grade.
Asphaltic binder	The predominant asphalt cement in HMA.
Filler	Mineral fillers, used primarily to fill voids between aggregate particles to meet gradation requirements.
Fractionated reclaimed asphaltic pavement	Reclaimed asphalt pavement processed by screening and separating by maximum and minimum particle size, asphalt content, asphalt performance grade, and aggregate characteristics.
Leveling layer	A thin HMA layer placed to eliminate irregularities in the profile or thickness of underlying pavement layers.
Lower layer	An asphaltic pavement layer below the upper layer in the completed pavement structure. There may be multiple lower layers.
Modifier	A material blended with the asphaltic binder to enhance its characteristics by modifying the performance grade of the binder.
Reclaimed asphaltic pavement	Material resulting from cold milling or crushing existing asphaltic pavement.
Recycled asphalt shingles	Waste material from a shingle manufacturing facility, either new or used material salvaged from residential roofing operations, or any combination of these materials ground to ensure that 100 percent will pass a 3/8 sieve and processed to remove deleterious material.
Upper layer	The top asphaltic pavement layer in direct contact with traffic in the completed pavement structure. There is only one upper layer.
Warm mix asphalt	Asphaltic mixture containing a warm mix additive or using a warm mix process that reduces the mixing and compaction temperatures typically required for that application.
Wedging	A tapered layer of asphaltic pavement used to build up an existing surface. Wedging layers may be thicker or thinner than standard pavement layers.

450.2.2 Aggregate Sampling and Testing

(1) The department and the contractor will sample and test according to the following methods, except as revised with the engineer's approval:

Sampling aggregates	AASHTO T2
Material finer than No. 200 sieve	AASHTO T11
Sieve analysis of aggregates	AASHTO T27
Mechanical analysis of extracted aggregate	AASHTO T30
Sieve analysis of mineral filler	AASHTO T37
Los Angeles abrasion of coarse aggregate	AASHTO T96
Freeze-thaw soundness of coarse aggregate	AASHTO T103

Sodium sulfate soundness of aggregates (R-4, 5 cycles)	AASHTO T104
Extraction of bitumen	AASHTO T164

450.3 Construction

450.3.1 Equipment

450.3.1.1 Asphalt Plants

450.3.1.1.1 Plant Scales

(1) Provide beam, springless, dial, or digital scales on weigh boxes and silos. Use scales of a standard make and design accurate to within 0.5 percent of the maximum required load. For each plant, provide at least ten standard 50 pound weights accurate to within 0.1 percent. For each scale, provide a suitable cradle or platform for applying test loads.

(2) If using beam scales for aggregate, provide a separate beam for each size of aggregate. Also provide a device that warns when the applied load is within 200 pounds of the required load.

(3) If using beam scales for asphaltic materials, provide a tare beam and a full capacity beam with a minimum graduation no greater than 2 pounds. Also provide a device that warns when the applied load is within 20 pounds of the required load.

(4) If using dial scales, provide a standard make springless scale designed, constructed, and installed to be vibration free. Ensure that all dials are plainly visible to the operator at all times. Equip with adjustable pointers for marking the weight of each material batched.

(5) If using digital scales, conform to National Bureau of Standards Handbook 44.

450.3.1.1.2 Automatic Batching

(1) On contracts with 10,000 tons or more, provide automated batch plants. Ensure that the plants' control system can coordinate mixture proportioning, timing, and discharge by the operation of a single control. Also provide an automatic batch weighing, cycling, and monitoring system.

(2) On contracts with less than 10,000 tons, if the contractor elects to use batch plant automatic systems, conform to the requirements here under 450.3.1.1.2. The contractor need not use automatic recordation. If the contractor elects to use automatic recordation, conform to 450.3.1.1.4 for truck loads, or 450.3.1.1.3 for batch weights.

(3) Ensure that the system accurately proportions mixture components by weight or volume in the proper order and controls the mixing cycle sequence and timing. Provide interlocks that ensure that the scale is at zero before a batch can start and that the batch is mixed completely before discharge. Do not start subsequent batches before completely discharging the previous batch. Also provide interlocks that ensure that all batch materials are in the mixer before the batch can discharge. Ensure that unauthorized personnel cannot alter mix designs and that equipment emits an audible signal if discharging a batch with out-of-tolerance component weights. Ensure that this signal is loud enough to hear throughout the plant area under normal operating conditions.

(4) Provide adjustable timing devices to control individual component batching and mixing operations. Provide auxiliary interlock cutoff circuits necessary to stop automatic cycling whenever an weighing error exceeding a specified tolerance occurs or when another part of the control system malfunctions.

(5) Ensure that the batching system automatic control can stop the cycle in the underweight check position and the overweight check position for each material to check tolerance limits.

(6) Ensure that the scale system is equipped with a device that applies pressure to a scale lever to simulate batching operations for tolerance checks.

(7) Consistently deliver materials within the full range of batch sizes within the following tolerances:

MATERIAL	PERCENT OF TOTAL MATERIAL BATCH WEIGHT
Coarse aggregate	+ 1.0
Fine aggregate	+ 1.0
Aggregate for use with salvaged or reclaimed pavement materials	+ 1.5
Mineral filler	+ 0.5
Salvaged or reclaimed asphaltic pavement material	+ 1.5
Asphaltic material	+ 0.1
Zero return for aggregate	+ 0.5
Zero return for salvaged or reclaimed material	+ 0.5
Zero return for asphaltic material	+ 0.1

(8) Unless providing separate tolerance controls for batching mineral filler, reduce aggregate tolerances to +/- 0.5 percent for aggregates delivered before the filler.

(9) Ensure that the total weight of the batch does not vary by more than +/- 2.0 percent of the designated batch weight.

(10) Ensure that the electrical circuits for the above delivery tolerances of each cutoff interlock are capable of providing the total span for the full allowable tolerance for maximum batch size. Provide tolerance controls automatically or manually adjustable to provide spans suitable for less than full-size batches. Ensure that the automatic controls and interlock cutoff circuits are consistently coordinated with the batching scale or meter within an accuracy of 0.2 percent of the scale or meter nominal capacity[1] throughout the full range of the batch sizes.

[1] Nominal capacity of a scale is defined as the maximum quantity which the scale or meter can measure.

(11) If the automatic control or monitoring systems break down, the contractor may operate the plant manually for up to 2 working days.

450.3.1.1.3 Recording Batch Weights

(1) On contracts involving 10,000 tons or more of asphaltic mixtures, unless the contractor elects to record truck loads as provided in 450.3.1.1.4, produce an automatic digital record for each batch indicating the proportions of each aggregate component, mineral filler, and asphaltic material.

(2) Provide a digital recorder that can print multiple copies of mixture reports that give the total weight of asphaltic mixture and asphaltic material both per load and per batch. Include weights of the individual aggregates and fillers. Reports need not provide tare weight and may use accumulative weights. Ensure that reported weights are accurate within +/- 1 kg/500 kg. Allow sufficient time for the scale to come to rest before printing each weight.

(3) The contractor may use mixture storage silos with digital recorder equipped batch plants if the department determines the storage silo output is coordinated with the recorded batch weights.

(4) If the recording system breaks down, the contractor may operate the plant without automatic recording for up to 2 working days.

450.3.1.1.4 Recording Truck Loads

Revise 450.3.1.1.4 to add more required load ticket information including cold weather paving information. This change was implemented in ASP 6 effective with the December 2016 letting.

(1) If not using automatic batch recording, install a digital recorder as part of the platform truck or storage silo scales. Ensure that the recorder can produce a printed digital record of at least the gross or net weights of delivery trucks. Provide gross, tare, net weights, load count, and the cumulative tonnage; the date, time, ticket number, WisDOT project ID, and mix 250 number; and the mix type including the traffic, binder, and mix designation codes specified in 460.3.1. Ensure that scales cannot be manually manipulated during the printing process. Provide an interlock to prevent printing until the scales come to rest. Size the scales and recorder to accurately weigh the heaviest loaded trucks or tractor-trailers hauling asphaltic mixture. Ensure that recorded weights are accurate to within 0.1 percent of the nominal capacity of the scale.

(2) Ensure that tickets identify additives not included in the mix design submittal or cold weather paving plan. Indicate on the ticket if the mixture is placed under a cold weather paving plan.

450.3.1.2 Asphaltic Mixture Hauling Vehicles

(1) Provide trucks for hauling asphaltic mixtures with tight, clean, and smooth boxes. The contractor may thinly coat boxes with a release agent chosen from the department's APL. Drain excess release agent after coating. Equip each box with a cover big enough to protect the mixture. Do not use trucks that show oil leaks of any magnitude.

450.3.1.3 Transfer Devices

(1) Ensure that transfer devices have surge bin capacity adequate to pave continuously at a uniform speed. If maintaining uniform and continuous paving, the engineer may allow the contractor to omit the surge bin. Do not use devices that cause vibrations or other motion that adversely affect the finished ride.

450.3.1.4 Pavers

(1) Ensure that the screed or strike-off assembly produces a finished surface of the required evenness and texture without tearing, shoving, or gouging the mixture. Use a screed adjustable for the required crown and cross-section of the finished pavement.

(2) Ensure that pavers are equipped with an activated screed or strike-off assembly and use activation at all times during paving unless the engineer allows otherwise. Do not extend the screed with one or

more static extensions totaling more than 12 inches at either screed end, except at the shoulder end for paving shoulders.

(3) Provide pavers with department-approved automatics that control the elevation and slope of the screed. The department will not require automatic controls when paving entrances, approaches, side road connections, small irregular areas, or if the engineer determines using automatic controls is impracticable. Use both grade and slope controls whenever automatics are required, except the engineer may waive the longitudinal or grade control requirement for the final surface. Ensure that the operator can adjust or vary the slope throughout super elevated curves and transitions. Also ensure that the system allows the sensor to operate on either side of the paver.

(4) If automatics break down, the contractor may pave under manual control only until the end of that working day.

450.3.1.5 Compaction Equipment

(1) Ensure rollers are in good mechanical condition, capable of operating both forwards and backwards, and the operating mechanism allows for starting, stopping, or reversing direction in a smooth manner, without loosening or distorting the surface being rolled.

(2) Equip rollers with a drum or tire lubricator. Do not lubricate with petroleum or tar products.

450.3.2 Constructing Asphaltic Mixtures

450.3.2.1 General

450.3.2.1.1 Preparation and Paving Operations

(1) Do not place asphaltic mixture when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 36 F for upper layers or 32 F for lower layers unless the engineer allows in writing. The contractor should place HMA pavement for projects in the northern asphalt zone between May 1 and October 15 inclusive and for projects in the southern asphalt zone between April 15 and November 1 inclusive. CMM 4-53 figure 2 defines asphalt zones. Notify the engineer at least one business day before paving.

(2) Unless the contract specifies otherwise, conform to the following:

- Keep the road open to all traffic during construction.
- Prepare the existing foundation for treatment as specified in 211.
- Incorporate loose roadbed aggregate as a part of preparing the foundation, in shoulder construction, or dispose of as the engineer approves.

(3) Place asphaltic mixture only on a prepared, firm, and compacted base, foundation layer, or existing pavement substantially surface-dry and free of loose and foreign material. Do not place over frozen subgrade or base, or where the roadbed is unstable.

450.3.2.1.2 Cold Weather Paving

450.3.2.1.2.1 General

(1) Conform to these cold weather paving provisions for work performed under the following:

- The 460 HMA Pavement bid items.
- The 465 Asphaltic Surface bid items.
- Special provisions that require placing mixture conforming to the contract requirements under 460 for HMA pavement or under 465 for asphaltic surface.

450.3.2.1.2.2 Cold Weather Paving Plan

(1) Submit a written cold weather paving plan to the engineer at the preconstruction meeting. In that plan outline material, operational, and equipment changes for paving when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 40 F. Include the following:

- Use a department-accepted HMA mix design that incorporates a warm mix additive from the department's APL. Do not use a foaming process that introduces water into the mix.
- Identify the warm mix additive and dosage rate.
- Identify modifications to the compaction process and when to use them.

(2) Engineer written acceptance is required for the cold weather paving plan. Engineer acceptance of the plan does not relieve the contractor of responsibility for the quality of HMA pavement placed in cold weather except as specified in 450.5.2(3).

450.3.2.1.2.3 Cold Weather Paving Operations

(1) Do not place asphaltic mixture when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 40 F unless a valid engineer-accepted cold weather paving plan is in effect.

(2) If the national weather service forecast for the construction area predicts ambient air temperature less than 40 F at the projected time of paving within the next 24 hours, confirm or submit revisions to the cold weather paving plan for engineer validation. Update the plan as required to accommodate the conditions anticipated for the next day's operations. Upon validation of the plan, the engineer will allow paving for the next day. Once in effect, pave conforming to the engineer-accepted cold weather paving plan for the balance of that work day or shift regardless of the temperature at the time of paving.

450.3.2.2 Preparing and Storing Mixtures

(1) Heat and combine aggregate and asphaltic material to produce a mixture within the temperature range the mixture design specifies when discharged from the mixer. Mix until achieving a homogeneous mixture with uniformly coated aggregate. The contractor may store the mixture in silos.

450.3.2.3 Transporting and Delivering Mixtures

(1) Deliver the mixture to the paver receiving hopper at a temperature within 20 F of the temperature the asphaltic material supplier recommends. Cover loads during inclement weather or when the ambient air temperature falls below 65 F.

(2) If depositing asphaltic mixture on the roadway, provide equipment to pick up substantially all of the asphaltic mixture from the roadway and load it directly into the paver receiving hopper. Use either a device integral to the paver or intermediate transfer equipment.

450.3.2.4 Correcting Base

(1) Before placing asphaltic base or surface courses, correct the existing pavement by filling potholes, sags, and depressions; altering the existing crown; or other corrections the engineer requires. Place asphaltic lower layer mixtures where and as the engineer directs. The contractor may hand place or use blade graders or mechanical spreaders to place mixture used for wedging, leveling layers, or filling holes. Feather the mixture out to become co-planar with adjoining areas and, unless the engineer directs otherwise, compact uniformly as specified in 450.3.2.6.2.

450.3.2.5 Spreading and Finishing Mixture

(1) Place asphaltic mixtures in layers to the typical sections the plans show with self-propelled pavers. Pave at a constant speed, appropriate for the paver and mixture, that ensures uniform spreading and strike-off with a smooth, dense texture and no tearing or segregation. Do not pave faster than the average delivery rate of asphaltic mixture to ensure, as nearly as possible, continuous paving.

(2) If placing the initial lane of a given layer, sense off a tight string line, a mobile string line, or a traveling straightedge whichever the engineer approves for the specific field conditions. On subsequent lanes of the layer, the contractor may sense off the adjacent lane surface.

(3) Avoid raking over machine spread and finished material on surface courses to the extent possible to prevent segregation.

(4) The contractor may spread material by hand in areas not accessible to pavers. Dump material outside the placement area, spread into place with shovels, and shape to the required grade and contour with rakes and lutes. Do not rake material from a pile of dumped material.

(5) Do not haul over any portion of a placed layer until after the final rolling is complete on that portion.

(6) If a longitudinal joint other than the notched wedge joint is constructed, place multi-lane pavement so that each day's placement in all lanes ends at the same station, unless the engineer directs or allows otherwise.

450.3.2.6 Compaction

450.3.2.6.1 General

(1) Unless the contract specifies otherwise for the particular type of work, compact using the ordinary compaction procedure. After spreading and strike-off and while still hot, compact each layer thoroughly and uniformly by rolling. Roll during daylight hours unless providing artificial light the engineer finds satisfactory. Use the appropriate number of rollers to achieve the specified compaction, surface finish, and smoothness requirements. Ensure that the compacted surface is smooth and true to the established crown and grade.

(2) Roll the entire surface until achieving the specified compaction and, to the extent practicable, eliminate roller marks. If turning or reversing the roller, or other operations, causes any scuffing or displacement, immediately correct the damage and revise the rolling procedure to prevent further damage. Keep

roller wheels moistened to keep mixture from sticking to them. Do not use excess water. Do not disturb the line and grade elevation of edges of the asphaltic pavement or surfacing.

(3) Along forms, curbs, headers, walls, and at other places not accessible to the roller, compact the mixture thoroughly with hot hand tampers or mechanical tampers giving equivalent compression. On depressed areas, use a trench roller or other engineer-approved equipment.

(4) Remove and replace material that is loose and broken, mixed with dirt, or is otherwise unacceptable with fresh hot mixture. Also remove and replace areas with excess asphaltic material. Compact replaced mixture immediately flush with the adjacent placement.

450.3.2.6.2 Ordinary Compaction

(1) Unless the contract specifies otherwise, compact patching, leveling, and wedging layers of asphaltic pavement or surfacing; all layers of plant mixed asphaltic base and base widening; driveways; and other non-traffic areas until no further appreciable consolidation is visible under the action of the compaction equipment. Use 2 or more rollers per paver if placing more than approximately 165 tons of mixture per hour.

(2) The engineer will assess the compacted density using the methods specified for the particular type of work.

450.3.2.7 Applying Tack Coat

(1) Apply tack coat as specified in 455.3.2 to each layer of a plant-mixed asphaltic base or pavement that will be overlaid with asphaltic mixture under the same contract.

450.3.2.8 Jointing

(1) Place all layers as continuously as possible without joints. Do not roll over an unprotected end of freshly laid mixture unless interrupting placement long enough for the mixture to cool. If interrupting placement, ensure proper bond with the new surface. Form joints by cutting back on the previous run to expose the full depth of the layer. After resuming placement, place the fresh mixture against the joint to form intimate contact and be co-planar with the previously completed work after consolidation.

(2) Where placing against existing HMA pavement, cut back the existing mat to form a full-depth butt joint.

(3) Construct notched wedge longitudinal joints for mainline paving if the pavement thickness conforms to the minimums specified in 460.3.2, unless the engineer directs or allows an alternate joint. Taper each layer at a slope no greater than 12:1. Extend the taper beyond the normal lane width, or as the engineer directs. Ensure that tapers for all layers directly overlap and slope in the same direction.

(4) Place a 1/2 to one inch vertical notch after compaction at the top of tapers on all layers. Place the finished longitudinal joint line of the upper layer at the pavement centerline for 2-lane roadways, or at the lane lines if the roadway has more than 2 lanes.

(5) Construct the tapered portion of each layer using an engineer-approved strike-off device that will provide a uniform slope and will not restrict the main screed. Apply a weighted steel side roller wheel, as wide as the taper, to the tapered section. Compact the initial taper section to as near the final density as possible. Apply a tack coat to the taper surface before placing the adjacent lane.

(6) Clean longitudinal and transverse joints coated with dust and, if necessary, paint with hot asphaltic material, a cutback, or emulsified asphalt to ensure a tightly bonded, sealed joint.

450.3.2.9 Surface Requirements

(1) Test the surface at engineer-selected locations with a 10-foot straightedge or other engineer-specified device. Ensure that upper layers show no variation greater than 1/8 inch between any 2 surface contacts. Ensure that lower layers, shoulder surfacing, and surfacing on temporary connections and bypasses show no variation greater than 1/4 inch between any 2 surface contacts.

(2) Remove and replace or otherwise correct, using engineer-approved methods, humps or depressions exceeding the specified tolerance.

450.3.2.10 Paving Shoulders

(1) Conform to the other requirements under 450.3.2 except, if constructing shoulders separately and the placement width is too narrow to accommodate the required pavers and rollers, the contractor may use engineer-approved alternate spreading and compaction equipment. Alternate equipment must be capable of satisfactorily laying mixture to the required width, thickness, texture, and smoothness.

450.3.2.11 Safety Edge[SM]

(1) Construct safety edge monolithically with and extending beyond the edge of pavements that have no paved shoulder, have paved shoulders 3 feet wide or less, and at other locations the plans show.

Safety edge is not required on edges that abut other HMA or concrete elements or where the engineer excludes for constructability issues.

(2) Compact conforming to 450.3.2.6. Ensure that after final rolling the safety edge angle is within the tolerances the plans show. The contractor may use full depth sawing to remove formed edges integrally placed with pavement where safety edge is not required.

(3) Use a paver equipped with a wedge maker from the department's APL capable of constructing the specified edge cross-section. Do not use a single plate strike off.

(4) Place the finished shoulder material to the top of the safety edge conforming to 305.3.3.

450.3.3 Maintaining the Work

(1) Protect and repair the prepared foundation, tack coat, base, paved traffic lanes, shoulders, and seal coat. Correct rich or bleeding areas, breaks, raveled spots, or other nonconforming areas in the paved surface.

450.4 Measurement

(1) The department will measure asphaltic mixtures by the ton of mixed aggregate and asphaltic material incorporated in the work unless the measurement subsection for a particular application specifies otherwise. Provide the engineer with weigh tickets showing the net weight of each load of material delivered. The department or department-authorized testing firms or agencies will test the contractor's truck, storage silo, or plant scales.

(2) For minor quantities of mixtures and if the engineer approves, the contractor may report batch weights from plant scales as described in 450.3.1.1.1, instead of truck or storage silo scale weights.

(3) The department will measure HMA Cold Weather Paving by the ton of HMA mixture placed conforming to an engineer-accepted cold weather paving plan.

450.5 Payment

450.5.1 General

(1) All costs of furnishing, maintaining, and operating the truck scale or other weighing equipment and furnishing the weigh tickets are incidental to the contract.

(2) Nonconforming material allowed to remain in place is subject to price adjustment under 105.3.2.

(3) Full-depth sawing to remove integrally placed safety edge where not required is incidental to the contract.

(4) The contractor is responsible for the quality of HMA placed in cold weather.

450.5.2 Cold Weather Paving

(1) The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
450.4000	HMA Cold Weather Paving	TON

(2) Payment for HMA Cold Weather Paving is full compensation for additional materials and equipment specified for cold weather paving under 450.3.2.1.2 including costs for preparing, administering, and following the contractor's cold weather paving plan. The department will not pay for HMA Cold Weather Paving for HMA placed as follows:

- If the lot density is less than the minimum specified in table 460-3 for mixture placed under 460.
- On days when the department is assessing liquidated damages.

(3) If because of an excusable compensable delay under 108.10.3, the engineer directs the contractor to pave when the temperature is less than 36 F for the upper layer or less than 32 F for lower layers, the department:

- Will relieve the contractor of responsibility for damage and defects the engineer attributes to cold weather paving.
- Will not assess disincentives for density or ride.

(4) If HMA pavement is placed under 450.3.2.1.2 and the HMA Cold Weather Paving bid item is not in the contract, the department will pay for the additional costs specified in 450.5.2(2) as extra work. The department will pay separately for providing HMA pavement and HMA surface under 460.5, 465.5, and the contract special provisions.

204 Removing or Abandoning Miscellaneous Structures

204.1 Description

(1) This section describes wholly or partially removing or abandoning existing miscellaneous structures, disposing of the resulting materials, or if required, salvaging and storing designated materials.

204.2 (Vacant)

204.3 Construction

204.3.1 General

204.3.1.1 General Requirements

(1) If retaining a portion of the existing structure, avoid damaging that portion during construction operations. Do not use any equipment or devices that might damage structures, facilities, or property to be preserved and retained. Complete operations necessary to remove or abandon an existing structure and that might endanger the new construction before constructing new work.

204.3.1.2 Backfilling

(1) Backfill trenches, holes, and pits resulting from breaking down, removing, or abandoning miscellaneous structures as specified for backfilling trenches in 203.3.6.

(2) Unless the contract specifies otherwise, backfill to the elevation of the natural ground, the proposed finished earth subgrade, or finished slopes, as necessary due to the location of the removed structure.

204.3.1.3 Salvaging or Disposing of Materials

(1) Carefully remove materials designated for salvage to avoid damage. Place salvaged materials in neat piles outside construction limits but within the right-of-way, at locations the engineer approves. Stockpile materials designated for salvage at locations the engineer approves, without contaminating the material with dirt or foreign matter.

(2) Dispose of concrete, stone, brick, and other material not designated for salvage as specified for disposing of materials under 203.3.4.

204.3.2 Breaking Down and Removing

204.3.2.1 General

(1) Unless specified otherwise, remove structures that the contract designates for removal or that interfere with the new construction as follows:

- From within the roadway.
- From within the removal limits the plans show.
- From within the limits designated under the Obliterating Old Road bid item, whether specified or subsequently found necessary and required.
- If the contract specifies, also wholly or partially remove structural elements occurring outside the limits of construction and beyond the limits of Obliterating Old Road.

(2) Unless the plans show otherwise, remove entirely or break down walls, piers, surface drains, foundations, and similar masonry structures as follows:

1. Within the roadbed, to a depth at least 2 feet below the subgrade.
2. Outside the roadbed, to a depth at least 2 feet below the finished grade.
3. At any location, to the extent required to avoid interfering with the work.

(3) If removing pavement, curb, gutter, sidewalk, crosswalk, and similar structures and portions of the existing structure are to remain in the surface of the finished work, remove the structure to an existing joint, or saw and chip the structure to a true line with a face perpendicular to the surface of the existing structure. Remove enough of the structure to provide proper grades and connection to the new work. Maintain drainage as specified for drainage during construction in 205.3.3.

(4) The contractor becomes the owner of the removed asphaltic pavement or surfacing and is responsible for its disposal as specified for disposing of materials under 204.3.1.3.

204.3.2.2 Removing Items

204.3.2.2.1 General

(1) Under the Removing Concrete Pavement bid item, remove concrete pavements, concrete alleys, concrete driveways, or rigid base including surfaces or other pavements superimposed on them.

(2) Under the Removing Concrete Pavement Butt Joints bid item, remove concrete pavements to allow the construction of butt joints. Remove existing pavement to the depth the plans show sawing, milling, or other engineer-approved methods.

(3) Under the Removing Asphaltic Surface bid item, remove all types of asphaltic pavement or surfacing not supported on rigid bases or not underlain by proposed excavation. Also, remove asphaltic overlays of existing concrete pavements, bases, or bridge decks designated to remain in place.

(4) Under the Removing Asphaltic Surface Butt Joints bid item, remove asphaltic pavement or surfacing to allow the construction of butt joints. Remove existing asphaltic pavements or surfacing to the depth the plans show by sawing, milling, or other engineer-approved methods.

(5) Under the Removing Concrete Sidewalk bid item, remove concrete sidewalk, crosswalk, and steps.

(6) Under the Removing Lip Curb bid item, remove lip curb to the plane of the pavement surface, +/- one inch.

(7) Under the Removing Concrete Slope Paving bid item, restore the slope in front of the abutment to a smooth, plane surface after removing the slope paving.

(8) Under the Removing Delineators and Markers bid item, remove delineators and markers.

(9) Under the Removing Railroad Track bid item, remove rails, paving, ties, track encasement, and other appurtenances. Remove concrete foundation and leave the ballast aggregate in place.

(10) Under the Removing Manholes, Removing Catch Basins, and Removing Inlets bid items, rebuild, and properly reconnect live sewers connected with them. Maintain satisfactory bypass service during these operations. Plug unused sewers as specified for abandoning pipes and structures under 204.3.3.1.

(11) Under the Removing Septic Tanks bid item, first completely remove the contents of the tank. Conform to the WDNR requirements for removal and disposal of these contents. Break down and remove the tank, to an elevation not less than 2 feet below the proposed ground surface, or 2 feet below the finished slopes or natural ground surface, as required due to the location of the tank. Before backfilling, break a hole in the bottom of any remaining portion of the tank to allow drainage. Backfill as specified for trenches, holes, and pits in 204.3.1.2. If the septic tank disposal system includes a dry well, remove the dry well to not less than 2 feet below ground surface, and backfill it in the manner specified above for the septic tank.

(12) Under the Site Clearance bid items, remove building foundations and concrete slabs, backfill exposed openings, and clear the site within the right-of-way at the locations the plans show. Materials removed from building sites under this bid item become the contractor's property. The contractor may incorporate these materials in the roadway embankment if the engineer approves. Clear the entire premises of decomposable and combustible refuse, debris, and materials resulting from the removals and leave the premises in a neat condition.

(13) Under the Removing Storm Sewer bid items, remove existing storm sewer. Backfill resulting trenches with granular backfill conforming to 209.2.

204.3.2.2.2 Removing Asphaltic Surface Milling

(1) Under the Removing Asphaltic Surface Milling bid item, remove existing asphaltic pavement or surfacing by milling at the location and to the depth the plans show. The contractor may incorporate suitable material into the work or dispose of it outside the project limits.

(2) If stockpiling material for subsequent incorporation into the work, store material at an engineer-approved location that will minimize the hauling required to place the material. Prepare the stockpile foundation to minimize contamination. Ensure that the stockpile foundation is free of clods, lumps, or stones larger than 2 inches in any dimension.

(3) Remove the existing asphaltic pavement or surfacing without incorporating or damaging underlying material that will remain in place. Provide a uniform milled surface that is reasonably plane, free of large scarification marks, and has the grade and transverse slope the plans show or the engineer directs.

(4) Use a self-propelled milling machine with depth, grade, and slope controls. Shroud the drum to prevent discharging loosened material into adjacent work areas or live traffic lanes. Provide an engineer-approved dust control system.

(5) Maintain one lane of traffic during working hours. Unless using a continuous removal and pick-up operation, do not windrow or store material on the roadway. Clear the roadway of materials and equipment during non-working hours. Grade shoulders adjacent to milled areas by the end of each work day to provide positive drainage of the pavement. Do not allow abrupt longitudinal differences of 2 inches or more between lanes during non-working hours. The engineer may waive one or more of these requirements if the highway is closed to traffic or if a particular operation does not endanger traffic.

204.3.2.3 Removing Buildings

(1) Under the Removing Building and Removing Buildings bid items, remove buildings, dispose of material and debris resulting from removing buildings, and backfill resulting holes.

(2) Buildings removed and materials resulting from building removal become the contractor's property unless the contract specifies otherwise. Dispose of unclaimed and removed material as specified for disposing of materials in 203.3.4.

(3) The department assumes no responsibility for the condition of any building at any time. The department makes or implies no guarantee that any building will remain in the condition the bidder finds it in when the bidder prepares its proposal.

(4) Obtain permits necessary for removing buildings, including those necessary if the contractor's operations obstruct streets or alleys.

(5) Remove buildings and building materials safely and according to the requirements of the Wisconsin department of workforce development, applicable ordinances of the municipality where the building is located, and the WDNR. Pay close attention to the requirements regulating the handling and disposal of asbestos, lead paint, and other hazardous substances. If creating hazardous conditions incident to the contract operations, furnish, erect, and maintain suitable barricades to safeguard the public.

(6) Notify public utility companies serving the building in sufficient time, before removal operations, to allow them to disconnect and remove their facilities from the building.

(7) Shut off municipal water service lines at the curb boxes. Tightly plug or seal sewer connections. If municipal ordinances or permits specify the manner of sealing a sewer service connection, then perform the work accordingly.

(8) Unless the contract specifies otherwise, when removing a building also remove that portion of its foundation, including any masonry floors, to an elevation not less than 2 feet below the ground surface, the proposed finished earth subgrade, or finished slope grade, as necessary due to the location of the building.

(9) Remove heating units, plumbing fixtures, and similar appurtenances to the elevation of the basement floor.

(10) Before backfilling, remove debris not suitable for backfilling. Break holes comprising at least 10 percent of the floor area in basement floors to allow drainage.

204.3.2.4 Removing Ancillary Structures

(1) Remove individual ancillary structures, designated with structure ID numbers beginning with "S" or "L", and their concrete foundations. Unless the contract specifies otherwise, dispose of structure components off-site.

(2) Under the Removing Ancillary Structure with Restoration bid items, also restore areas disturbed by construction activities to the final grade lines with topsoil, mulch, seed, and seed water that meet the requirements of 625, 627, and 630.

204.3.3 Abandoning Pipes and Structures

204.3.3.1 General

(1) If the contract calls for abandoning manholes, catch basins, or inlets, clean them thoroughly. Plug the existing pipe connections with brick or concrete block masonry, or with any grade of concrete specified under 501.3.1, or any engineer-approved commercial grade of concrete. Unless the plans show otherwise, remove the walls of the structures as follows:

1. Within the roadbed, to a depth at least 2 feet below the subgrade.
2. Outside the roadbed, to a depth at least 2 feet below the finished grade.
3. At any location, to the extent required to avoid interfering with the work.

204.3.3.2 Abandoning, Closing, and Sealing Items

(1) Under the Abandoning Culvert Pipes bid item, plug both ends of the abandoned pipe as specified in 204.3.3.1.

(2) Under the Closing Culvert Pipes bid item, close both ends of the abandoned pipe as specified for closing culverts in 203.3.3.

(3) Under the Sealing Pipes bid item, thoroughly clean the ends of the abandoned pipe, and seal them with brick, concrete block, or any grade of concrete specified under 501.3.1.

204.3.3.3 Abandoning Wells

(1) Under the Abandon Wells bid item, fill and seal wells conforming to the Wisconsin administrative code as follows:

For monitoring wells.....NR 141
For community wells or high capacity wells .....NR 811
For private water supply wells .....NR 812

204.4 Measurement

(1) Unless specified otherwise, the department will measure this work in the original position of the removed structures. If the contract does not include bid items for removing the listed miscellaneous structures from within the roadway, the department will measure the excavation for those removals as common excavation. The department will determine the volume of excavation for removing concrete structures as the area of the structure times the depth removed.

(2) The department will measure Removing Concrete Pavement, Removing Concrete Pavement Butt Joints, Removing Asphaltic Surface, and Removing Asphaltic Surface Butt Joints by the square yard acceptably complete regardless of the depth or number of courses encountered. The department will measure Removing Asphaltic Surface Milling by the square yard, or by the ton acceptably completed.

(3) If removing curb, gutter, or curb & gutter is required in conjunction with removing pavement, the department will measure removing these structures by the square yard acceptably completed, under the Removing Concrete Pavement bid item. If removing a rigid base with an asphaltic surface extending beyond the lateral limits of the rigid base, as in a widened pavement, the department will measure only the area occupied by the rigid base under the Removing Concrete Pavement bid item. The department will measure the portion of the asphaltic surfacing beyond the rigid base removed under the Excavation bid items or the Obliterating Old Road bid item. The department will make no deductions for any opening in the removed pavement having an area of 3 square yards or less.

(4) The department will make no deductions from the volume measured under the Excavation bid items for pavement removed under the Removing Concrete Pavement bid item.

(5) If removing curb, gutter, or curb & gutter that is separate from and not removable in conjunction with removing pavement, the department will measure Removing Curb, Removing Gutter, and Removing Curb & Gutter by the foot acceptably completed, measured along the flow line of gutter for gutter, or curb & gutter, and along face of curb for curb.

(6) The department will measure Removing Concrete Sidewalk by the square yard acceptably completed. The department will include steps based on the area of the horizontal projection of the steps.

(7) The department will measure Removing Concrete Barrier, Removing Lip Curb, Removing Guardrail including end sections or anchorages, and Removing Fence by the linear foot acceptably completed.

(8) The department will measure Removing Concrete Slope Paving by the square yard acceptably completed, measured in the plane of the removal surface.

(9) The department will measure Removing Delineators and Markers as each individual delineator or marker acceptably completed.

(10) The department will measure Removing Masonry by the cubic yard acceptably completed.

(11) The department will measure Removing Surface Drains as each individual surface drain acceptably completed.

(12) The department will measure Removing Concrete Bases as each individual concrete base acceptably completed.

(13) The department will measure Removing Railroad Track by the linear foot acceptably completed, measured along single track lines, tracks with 2 rails.

(14) The department will measure Removing Utility Poles as each individual pole, or pole stub acceptably completed, including attached parts and connections.

(15) The department will measure Removing Manholes, Removing Catch Basins, and Removing Inlets as each individual manhole, catch basin, or inlet acceptably completed, including attached parts and connections.

(16) The department will measure Removing Septic Tanks as each individual septic tank acceptably completed, including any dry wells in the tank's disposal system.

(17) The department will measure the Removing Building (station) bid items as each individual building acceptably removed. The department will measure the Removing Building (parcel) bid items as each individual parcel with all buildings acceptably removed.

(18) The department will measure the Site Clearance (parcel) bid items as each individual parcel acceptably cleared.

(19) The department will measure the Removing Storm Sewer bid items by the linear foot acceptably completed, measured along the centerline of the pipe.

(20) The department will measure the Removing Ancillary Structure and the Removing Ancillary Structure with Restoration bid items by each individual structure, including its associated concrete foundation, acceptably completed.

(21) The department will measure the Abandoning Manholes, Abandoning Catch Basins, Abandoning Inlets, and Abandoning Wells bid items as each individual unit acceptably completed.

(22) The department will measure Abandoning Culvert Pipes, Closing Culvert Pipes, and Sealing Pipes as each individual pipe acceptably completed, having both ends plugged.

204.5 Payment

204.5.1 Change Removing Building & Site Clearance bid items - LS (station) or (parcel) to EACH (station) or (parcel)

204.5.1 General

(1) The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
204.0100	Removing Concrete Pavement	SY
204.0105	Removing Concrete Pavement Butt Joints	SY
204.0110	Removing Asphaltic Surface	SY
204.0115	Removing Asphaltic Surface Butt Joints	SY
204.0120	Removing Asphaltic Surface Milling	SY
204.0125	Removing Asphaltic Surface Milling	TON
204.0130	Removing Curb	LF
204.0140	Removing Gutter	LF
204.0150	Removing Curb & Gutter	LF
204.0155	Removing Concrete Sidewalk	SY
204.0157	Removing Concrete Barrier	LF
204.0160	Removing Lip Curb	LF
204.0165	Removing Guardrail	LF
204.0170	Removing Fence	LF
204.0175	Removing Concrete Slope Paving	SY
204.0180	Removing Delineators and Markers	EACH
204.0185	Removing Masonry	CY
204.0190	Removing Surface Drains	EACH
204.0195	Removing Concrete Bases	EACH
204.0200	Removing Railroad Track	LF
204.0205	Removing Utility Poles	EACH
204.0210	Removing Manholes	EACH
204.0215	Removing Catch Basins	EACH
204.0220	Removing Inlets	EACH
204.0225	Removing Septic Tanks	EACH
204.0231	Removing Building (station)	EACH
204.0236	Removing Building (parcel)	EACH
204.0241	Site Clearance (parcel)	EACH
204.0245	Removing Storm Sewer (size)	LF
204.0246	Removing Ancillary Structure (structure)	EACH
204.0247	Removing Ancillary Structure with Restoration (structure)	EACH
204.0250	Abandoning Manholes	EACH
204.0255	Abandoning Catch Basins	EACH
204.0260	Abandoning Inlets	EACH
204.0265	Abandoning Wells	EACH
204.0270	Abandoning Culvert Pipes	EACH
204.0275	Closing Culvert Pipes	EACH
204.0280	Sealing Pipes	EACH

(2) Payment for removing or abandoning miscellaneous structures is full compensation for breaking down, removing, closing, plugging, or sealing; for removing headwalls; for obtaining any required work permits; for providing any required bentonite, soil, brick, concrete block, or concrete; for restoring the roadway cross-section; and, unless the contract specifies granular backfill, for backfilling.

(3) Payment for the Removing Ancillary Structures and the Removing Ancillary Structure with Restoration bid items also includes removing associated concrete foundations and, for the Removing Ancillary Structure with Restoration bid items, the required topsoil, mulch, and seed.

(4) If the contract specifies or the engineer directs backfilling with granular backfill, the department will pay separately for that backfilling under the Backfill Granular bid items as specified in 209.5.

(5) Except for storm sewer, if the contract does not include:

1. Bid items for removing the listed miscellaneous structures from within the roadway, the department will pay for excavating these removals under the Excavation Common bid item. The department will pay for excavation for removing concrete structures exceeding one cubic yard, that were not specified for removal in the contract, at 5 times the unit price bid for Excavation Common under the Removing Miscellaneous Concrete Structures administrative item. Other work involved in removing or abandoning miscellaneous structures within the roadway is incidental to the work.
2. A separate bid item for removing miscellaneous structures listed above from within the limits of Obliterating Old Road, work involved in the removal thereof, whether specified or subsequently found necessary and required, is incidental to Obliterating Old Road.
3. A separate bid item for removing miscellaneous structures listed above from beyond the roadway and outside the limits of Obliterating Old Road, work involved in the removal, if the removal is specified in the contract, is incidental to other bid items of work. If this removal is not specified but later found necessary and required, the department will pay for work involved in this removal as extra work.

204.5.2 Storm Sewer

(1) If the contract or the engineer requires storm sewer removal and the contract does not include the Removing Storm Sewer bid item, the department will pay for that removal as extra work.

305 Dense-Graded Base

305.1 Description

(1) This section describes constructing a dense-graded base using one or more of the following aggregates at the contractor's option:

Crushed stone	Reclaimed asphalt
Crushed gravel	Reprocessed material
Crushed concrete	Blended material

305.2 Materials

305.2.1 General

(1) Provide aggregate conforming to 301.2 for crushed stone, crushed gravel, crushed concrete, reclaimed asphalt, reprocessed material, or blended material. Provide QMP for dense-graded base as specified in 730.

(2) Where the contract specifies or allows 1 1/4-inch base, do not place reclaimed asphalt, reprocessed material, or blended materials below virgin aggregate materials unless the contract specifies or the engineer allows in writing. The department will allow virgin aggregate above reclaimed asphalt, reprocessed material, or blended materials in shoulder areas adjacent to concrete pavement.

305.2.2 Gradations

305.2.2.1 General

(1) Except for reclaimed asphalt, conform to the following gradation requirements:

	PERCENT PASSING BY WEIGHT		
SIEVE	3-INCH	1 1/4-INCH	3/4-INCH
3-inch	90 - 100	___	___
1 1/2-inch	60 - 85	___	___
1 1/4-inch	___	95 - 100	___
1-inch	___	___	100
3/4-inch	40 - 65	70 - 93	95 - 100
3/8-inch	___	42 - 80	50 - 90
No. 4	15 - 40	25 - 63	35 - 70
No. 10	10 - 30	16 - 48	15 - 55
No. 40	5 - 20	8 - 28	10 - 35
No. 200	2.0 - 12.0	2.0 - 12.0[1] [3]	5.0 - 15.0[2]

[1] Limited to a maximum of 8.0 percent for base placed between old and new pavement.

[2] 8.0 - 15.0 percent if base is >= 50 percent crushed gravel.

[3] 4.0 - 10.0 percent if base is >= 50 percent crushed gravel.

(2) Unless the plans or special provisions specify otherwise, do the following:

1. Use 1 1/4-inch in base course layers. Always use 1 1/4-inch in the top 4 inches of base. The contractor may substitute 3-inch for 1 1/4-inch in lower base zones including material underlying the shoulder.
2. Use 3/4-inch in shoulders. Always use 3/4-inch to match the thickness of the paved shoulder in the unpaved portion of the shoulder and on exposed shoulder foreslopes. The contractor may substitute 1 1/4-inch for 3/4-inch elsewhere in shoulders and shoulder foreslopes. If using 1 1/4-inch, limit the allowable reclaimed asphalt content to 50 percent or less.

305.2.2.2 Reclaimed Asphalt

(1) The contractor may use reclaimed asphalt with 100 percent passing a 1 1/4-inch sieve as 1 1/4-inch base. The engineer will assess gradation primarily by visual inspection but may test questionable material.

305.3 Construction

305.3.1 General

(1) Construct dense-graded base conforming to 301.3.

305.3.2 Compaction

305.3.2.1 General

(1) Compact each base layer, including shoulder foreslopes, with equipment specified in 301.3.1. Use standard compaction conforming to 301.3.4.2. Final shaping of shoulder foreslopes does not require compaction.

305.3.2.2 Compacting 1 1/4-Inch Base and 3/4-Inch Base

(1) If using a pneumatic roller, do not exceed a compacted thickness of 6 inches per layer. For the first layer placed over a loose sandy subgrade, the contractor may, with the engineer's approval, increase the compacted layer thickness to 8 inches.

(2) If using a vibratory roller, do not exceed a compacted thickness of 8 inches per layer.

305.3.2.3 Compacting 3-Inch Base

(1) Compact with a vibratory or pneumatic roller. Do not exceed a compacted thickness of 9 inches per layer.

305.3.3 Constructing Aggregate Shoulders

305.3.3.1 General

(1) Construct aggregate shoulders to the elevations and typical sections the plans show, except for minor modifications needed to conform to other work.

(2) Use equipment that does not damage or mar the pavement surface, curbs, or appurtenances.

(3) Place aggregate directly on the shoulder area between the pavement edge and the outer shoulder limits. Recover uncontaminated material deposited outside the limits and place within the limits.

(4) Do not deposit aggregate on the pavement during placement, unless the engineer specifically allows. Do not leave aggregate on the pavement overnight. After placing the shoulder aggregate, keep the pavement surface free of lose aggregate.

(5) Spread and compact the aggregate in compacted layers of 6 inches or less. Use standard compaction conforming to 301.3.4.2.

(6) After final compaction, shape the shoulders to remove longitudinal ridges to ensure proper drainage.

305.3.3.2 Shoulders Adjacent to Concrete Pavement or Base

(1) Construct shoulders along concrete pavement or concrete base so the completed shoulder is at the approximate grade and cross-section before opening the pavement to public traffic.

305.3.3.3 Shoulders Adjacent to Asphaltic Pavement or Surfacing

(1) If the roadway is closed to through traffic during construction, construct the aggregate shoulders before opening the road.

(2) If the roadway remains open to through traffic during construction and a greater than 2-inch drop-off occurs within 3 feet or less from the edge of the traveled way, eliminate the drop-off within 48 hours after completing that days paving. Unless the special provisions specify otherwise, provide aggregate shoulder material compacted to a temporary 3:1 or flatter cross slope from the surface of the pavement edge.

(3) Provide and maintain signing and other traffic protection and control devices, as specified in 643, until completing shoulder construction to the required cross-section and flush with the asphaltic pavement or surfacing.

305.3.4 Shaping Shoulders

(1) Under the Shaping Shoulders bid item, blade, shape, and compact the existing shoulder aggregate, before the end of the day's work, to ensure proper drainage while salvaging existing pavement and constructing new pavement. Do not contaminate the shoulder aggregate with deleterious material. Incorporate material obtained from shaping shoulders in the new shoulder, in widening the roadbed, or as the plans show.

305.3.5 Constructing Detours

(1) Under the Aggregate Detours bid item, provide aggregate on the designated detour at the locations the plans show or the engineer directs. Use 3/4-inch base unless the plans or special provisions specify otherwise.

305.4 Measurement

(1) The department will measure the Base Aggregate Dense and Aggregate Detours bid items under this section by the ton or cubic yard acceptably completed. The department may deduct for contaminated aggregate or unrecovered aggregate deposited outside the outer shoulder limits.

(2) If the department converts volume to weight as specified in 109.1, the conversion factor for the acceptably completed in-place Base Aggregate Dense bid items is 1.85 tons per cubic yard.

(3) The department will measure Shaping Shoulders by the station acceptably completed, measured along the centerline for each shoulder separately.

305.5 Payment

(1) The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
305.0110	Base Aggregate Dense 3/4-Inch	TON
305.0115	Base Aggregate Dense 3/4-Inch	CY
305.0120	Base Aggregate Dense 1 1/4-Inch	TON
305.0125	Base Aggregate Dense 1 1/4-Inch	CY
305.0130	Base Aggregate Dense 3-Inch	TON
305.0135	Base Aggregate Dense 3-Inch	CY
305.0410	Aggregate Detours	TON
305.0415	Aggregate Detours	CY
305.0500	Shaping Shoulders	STA

(2) Payment for the Base Aggregate Dense and the Aggregate Detours bid items is full compensation for preparing the foundation; and for placing, shaping, compacting, and maintaining the base.

(3) Payment for Shaping Shoulders is full compensation for blading, shaping, compacting, and maintaining the existing aggregate shoulders.

(4) If the contractor substitutes 3-inch in base course or 1 1/4-inch in shoulders as allowed under 305.2.2.1, the department will pay for the substitute material as follows:

- At the Base Aggregate Dense 1 1/4-Inch unit price if substituting 3-inch in base course.
- At the Base Aggregate Dense 3/4-Inch unit price if substituting 1 1/4-inch in shoulders.

690 Sawing

690.1 Description

(1) This section describes sawing of existing concrete or asphalt including pavement, curb & gutter, driveways, sidewalks, and similar work.

690.2 (Vacant)

690.3 Construction

690.3.1 Equipment

(1) Use diamond blades for sawing concrete where a full-depth cut is required. The contractor may use carbide cutting wheels to saw concrete that will be overlaid or for full-depth cuts where the cut face does not join the new concrete.

690.3.2 Sawing Asphalt

(1) Make straight saw cuts at least 2 inches deep. Saw so the surface remaining is generally vertical over its full depth. Saw to the depth the plan indicates or as the engineer directs or allows.

690.3.3 Sawing Concrete

(1) Do not extend saw cuts into newly placed concrete pavement or into existing pavements more than 12 inches beyond the limits the engineer designates. Saw full-depth unless the plans indicate otherwise or the engineer directs or allows otherwise.

(2) Remove sawing sludge after completing each saw cut. Minimize sludge on live traffic lanes. Remove sludge from traffic control devices each day before dark. Dispose of sludge at an acceptable material disposal site or on engineer-approved areas of the roadway or roadside.

690.4 Measurement

(1) The department will measure Sawing Asphalt and Sawing Concrete by the linear foot acceptably completed. The department will not measure overcuts beyond the limits the plans show or the engineer directs.

(2) If performing Sawing Concrete in conjunction with concrete pavement repair and replacement or concrete base patching, the department will measure the applicable total quantity of the following:

1. One full-depth longitudinal cut through the repair area if the engineer deems that cut necessary.
2. Two full-depth transverse cuts, one at each limit of the repair area.
3. Additional transverse cuts as necessary to reduce the removal slabs to a transportable size. The department will not measure cuts made to reduce removal slabs to a width less than 7 feet.
4. Additional full-depth cuts the engineer directs to extend the repair limits, unless those cuts were required because of damage contractor operations caused.

(3) The department will measure and pay for composite cuts through both asphalt and concrete as concrete.

690.5 Payment

(1) The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
690.0150	Sawing Asphalt	LF
690.0250	Sawing Concrete	LF

(2) Payment is full compensation for sawing and sludge removal.

701 General QMP Requirements

701.1 Description

701.1.1 General

(1) This section describes contractor responsibilities common to QMPs under 700 including quality control plans; personnel and laboratory certification; quality control testing; data submission; and record keeping. This section also describes department responsibilities, common to all QMPs under 700, for verification and quality assurance testing. Exceptions and additional requirements under the QMP program are specified in individual QMP specifications.

701.1.2 Quality Control Program

701.1.2.1 General

(1) Provide and maintain a quality control program, defined as all contractor activities and documentation of the following:

1. Gradation and mix design.
2. Control and inspection of production and placement processes.
3. Material sampling, testing, and correction of in-place work.

(2) CMM 800 provides additional detailed guidance for QMP work and describes required sampling and testing procedures.

(3) Use MRS to report contract-required test results to the department electronically, estimate pay adjustments, and print reports. Qualified personnel may obtain MRS software at:

http://www.atwoodsystems.com/

701.1.2.2 Quality Control Plan

(1) Prepare a project-specific written quality control plan for each individual QMP specification and construct the project as that plan provides. Submit each individual quality control plan to the engineer no later than 10 business days before placing the respective material. Obtain engineer approval before making process or material changes that differ from those provided in approved QC plans. Update QC plans with changes as they become effective. Provide current plans to the engineer and post in each contractor laboratory before producing material and as changes are adopted.

(2) Ensure that quality control plans include the following elements:

1. Organizational chart including names, telephone numbers, current certifications, and roles and responsibilities of quality control personnel.
2. Process for disseminating quality control and corrective action information to appropriate persons. Include a list of recipients, the communication means used, and action time frames.
3. Locations of QC laboratories.
4. Material sources; include unique identifier for each aggregate source.
5. Batch plants and processing locations.
6. Initial and routine equipment checks and documentation.
7. Frequency of contractor quality control testing.
8. Process control testing the contractor intends to perform, and associated control charts or other documentation the contractor will make available to the department.
9. Procedures for identifying and documenting the locations of yielding foundation before placing material.

701.1.2.3 Small Quantities

(1) For contracts with small quantities of material, as defined in individual QMP specifications, the contractor may submit an abbreviated quality control plan consisting of only items 1, 4, 5, and 7 of 701.1.2.2(2) or integrate that small-quantity work into another contract QC plan.

701.1.2.4 Personnel Certification

(1) Have personnel that are HTCP-certified at or above the minimum levels specified in table 701-1 perform sampling, testing, and documentation.

(2) A certified technician coordinates and is responsible for work an assistant certified technician (ACT) performs. The certified technician ensures that sampling and testing is performed correctly, analyzes test results, and posts resulting data. No more than one ACT can work under a single certified technician.

701.1.2.5 Laboratory Qualification

(1) Ensure that contractor portable and fixed laboratories, as well as commercial laboratories performing testing under the contract, are qualified to perform the work in question. Obtain information on the Wisconsin laboratory qualification program from the department's web site at:

https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/qual-labs.aspx

701.1.2.6 Equipment

(1) Furnish the necessary equipment and supplies for performing quality control testing. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate testing equipment according to CMM 830 and maintain a calibration record at the laboratory.

701.1.2.7 Documentation

(1) Document observations, material adjustments, process adjustments, and nonconforming material investigations daily in a permanent field record. Note additional process control information enumerated in the contractor's quality control plan.

(2) Use forms described in CMM 800. When electronic reporting is required, submit the data using MRS within 5 business days after results are available.

(3) Submit final testing records, control charts, source documents, and other documentation in a manner acceptable to the engineer within 10 business days after placement. For long-term test results, submit final records within 10 business days after contract-required information becomes available. The engineer may allow submission of scanned copies of hand-written documentation.

701.2 (Vacant)

701.3 Testing

701.3.1 Allow SAM meter to be used for air content test. ASP 6 Nov 21 let. Correct errata with AGGTEC-I.

701.3.1 General

(1) Perform contract required QC tests for samples randomly located according to CMM 830. Use the test methods specified in table 701-1.

TABLE 701-1 TESTING AND CERTIFICATION STANDARDS

TEST	TEST STANDARD	MINIMUM REQUIRED CERTIFICATION (any one of the certifications listed for each test)
Random Sampling	CMM 830.9.2	Transportation Materials Sampling Technician (TMS) TMS Assistant Certified Technician (ACT-TMS) Aggregate Technician I (AGGTEC-I) AGGTEC-I Assistant Certified Technician (ACT-AGG) PCC Technician I (PCCTEC-I) PCCTEC-I Assistant Certified Technician (ACT-PCC) Grading Technician I (GRADINGTEC-I) Grading Assistant Certified Technician (ACT-GRADING)
Sampling Aggregates	AASHTO T2[1] [4]	TMS, ACT-TMS, AGGTEC-I, ACT-AGG
Percent passing the No. 200 sieve	AASHTO T11[1]	AGGTEC-I, ACT-AGG
Fine & coarse aggregate gradation	AASHTO T27[1]	
Aggregate moisture content	AASHTO T255[1]	
Fractured faces	ASTM D5821[1]	
Liquid limit	AASHTO T89	Aggregate Testing for Transportation Systems (ATTS) GRADINGTEC-I, or ACT-GRADING
Plasticity index	AASHTO T90[3]	
Sampling freshly mixed concrete	AASHTO R60	PCCTEC-1 ACT-PCC
Air content of fresh concrete	AASHTO T152[2] AASHTO TP118[5]	
Air void system of fresh concrete	AASHTO TP118[5]	
Concrete slump	AASHTO T119[2]	
Concrete temperature	ASTM C1064	
Making and curing concrete specimens	AASHTO T23	
Moist curing for concrete specimens	AASHTO M201	
Concrete compressive strength	AASHTO T22	Concrete Strength Tester (CST) CST Assistant Certified Technician (ACT-CST)
Concrete flexural strength	AASHTO T97	
Concrete surface resistivity[2]	AASHTO T358	
Voids in aggregate	AASHTO T19	PCCTEC-II
Profiling	—	PROFILER

[1] As modified in CMM 860.

[2] As modified in CMM 870.

[3] A plasticity check, if required under individual QMP specifications, may be performed by an AGGTEC-I in addition to the certifications listed for liquid limit and plasticity index tests.

[4] Plant personnel may operate equipment to obtain samples under the direct observation of a TMS or higher.

[5] Consolidate by rodding.

701.3.2 Contractor QC Testing

(1) Generate random numbers, determine sample and test locations according to CMM 830, and provide to the engineer before placing material within the corresponding test increment. Perform contract required QC tests at the predetermined random location. Also, perform other tests as necessary to control production and construction processes, and additional testing enumerated in the contractor's quality control plan or that the engineer directs. Report test results to the engineer within timeframes specified in individual QMP specifications.

(2) Notify the engineer when an individual test exceeds a spec limit. Material from the first out-of-spec test up to, but not including, material from the first subsequent in-spec test is nonconforming. The department may reject or otherwise determine the final disposition of nonconforming material as specified in 106.5.

(3) The department may periodically observe contractor sampling and testing, and direct additional contractor sampling and testing for department evaluation.

701.3.3 Department Testing

701.3.3.1 General

(1) The department conducts verification testing to validate product quality and independent assurance testing to evaluate sampling and testing. The department will use the same sampling and testing methods required for contractor testing under 701.3.1. The department will provide the contractor with a list of names and telephone numbers of project verification and independent assurance personnel upon approval of the QC plan.

(2) The department will provide test results to the contractor within timeframes specified in individual QMP specifications.

(3) Correct department-identified deficiencies. If the contractor fails to correct deficiencies or resolve discrepancies, the engineer may suspend production.

701.3.3.2 Quality Verification Testing

(1) The department will have an HTCP-certified technician, or ACT working under a certified technician, perform QV sampling and testing. Department QV testing personnel must meet the same certification requirements specified in 701.1.2.4.

(2) The department will sample and test randomly at locations independent of the contractor's QC tests and use separate equipment and laboratories. The department will notify the contractor before sampling so the contractor can observe QV sampling. The department will conduct a minimum of one verification test for each 5 contractor QC tests unless individual QMP specifications specify otherwise.

(3) If verification tests conform to specifications, no further action is required. If verification tests do not conform to specifications, the department will notify the contractor immediately and the two parties will jointly investigate. The investigation may include additional testing as well as review and observation of both department and contractor sampling and testing procedures, equipment, and other documented test results. Both parties will document investigative work.

701.3.3.3 Independent Assurance Testing

(1) The department performs independent assurance testing to evaluate department verification and contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform independent assurance reviews according to the department's independent assurance program, which may include one or more of the following:

1. Split sample testing.
2. Proficiency sample testing.
3. Witnessing sampling and testing.
4. Test equipment calibration checks.
5. Reviewing contract-required data and available contractor process control information.
6. Requesting that testing personnel perform additional sampling and testing.

701.3.4 Dispute Resolution

(1) The engineer and contractor will jointly investigate any testing discrepancies and potentially nonconforming materials. Attempt to seek a mutually agreeable solution. Abide to the dispute resolution procedures in 106.3.4.3.5.

701.3.5 Corrective Action

(1) Conform to corrective action specified in individual QMP specifications or as directed by the engineer.

701.4 (Vacant)

701.5 Payment

(1) Costs for sampling, testing, and documentation under 700 are incidental to the work. If the contractor fails to perform required QMP work, the department may reduce the contractor's pay. The department will administer pay reductions under the Non-performance of QMP administrative item.

730 QMP Base Aggregate

730.1 Description

730.1.1 General

(1) This section describes contractor QC and department QV testing and documentation for base aggregates. Apply to Base Aggregate Open Graded bid items and to Base Aggregate Dense bid items except reclaimed asphaltic pavement placed under the Base Aggregate Dense bid items.

(2) Do not apply to Aggregate Detours, Breaker Run, Select Crushed, Pit Run, Subbase, or Riprap bid items.

(3) Conform to the general QMP requirements under 701, to the base aggregate requirements under 301, 305, and 310, and to the additional requirements specified here in 730.

730.1.2 Quality Control Program

730.1.2.1 Quality Control Plan

(1) Submit a plan conforming to 701.1.2.2 and include additional information as follows:

1. Section and quarter descriptions for all aggregates that require QC testing.
2. Description of stockpiling and hauling methods.

730.1.2.2 Small Quantities

(1) The department defines a small quantity of base aggregate as a contract quantity of 6000 tons or less placed under a single bid item.

(2) For small quantity contracts:

- An abbreviated quality control plan is allowed under 701.1.2.3.
- Contractor QC placement testing is modified as specified in 730.3.4.1.

730.1.2.3 Documentation

(1) Submit gradation, fracture, liquid limit, and plasticity test results to the engineer within 1 business day of obtaining the sample and submit data electronically using MRS as specified in 701.1.2.7.

(2) Maintain standardized control charts according to CMM 830.

(3) Maintain separate gradation control charts for each sieve size specified in 305 or 310 for each base aggregate size, source or classification, and type. Set the control limits and warning limits as follows:

1. The control limits are the upper and lower gradation specification limits.
2. Warning limits:
    - There are no upper warning limits for sieves requiring or allowing 100 percent passing.
    - There are no lower warning limits for sieves allowing 0 percent passing.
    - Dense-graded No. 200 sieve: warning limits are 0.5 percent within the upper and lower control limits.
    - Dense-graded for all other sieves: warning limits are 2 percent within the upper and lower control limits.
    - Open-graded 1-inch, 3/8-inch, and No. 4 sieves: warning limits are 2 percent within the upper and lower control limits.
    - Open-graded No. 10, No. 40, and No. 200 sieves: warning limits are 1 percent within the upper and lower control limits.

(4) Maintain a separate fracture control chart for each base aggregate size, source or classification, and type. Set the lower control limit to the value specified in table 301-2. Set the lower warning limit 2 percent above the lower control limit. There is no upper warning limit.

(5) Plot QC and QV test results and the 4-point running average on control charts. Include only QC placement tests in the running average unless a QV test result is out of spec, then include it as specified in 730.3.5(5). Document corrective action on control charts. Update control charts and submit copies to the engineer daily.

730.2 Materials

(1) Provide materials conforming to 301, 305, and 310.

(2) Use the definitions in 301.2.2 and the following:

Stockpile Sampling Coordinated QC or QV sample before beginning placement of aggregate materials.

Loadout Sampling Sample taken from the working face of a stockpile during placement of aggregate materials.

730.3 Testing

730.3.1 Waive fracture testing for recycled materials.

730.3.1 General

(1) Test gradation, fracture, liquid limit, and plasticity for each base aggregate size, source or classification, and type. Production tests only apply to small quantity projects under 730.3.4. Use the test methods specified in table 701-1 and conform to the following:

1. Gradation
   - Determine the complete gradation, including P200, using a washed analysis.
   - For 3-inch base, if three consecutive 4-point running averages for percent passing the No 200 sieve are 8.5 percent or less, the contractor may use an unwashed analysis for 9 out of 10 tests; one out of every 10 must be washed. If a single 4-point running average for percent passing the No. 200 sieve exceeds 8.5 percent, resume using a washed analysis until three consecutive running averages are 8.5 percent or less.
2. Fracture
   - Perform fracture testing on the individual component materials before blending.
   - Fracture testing is not required on material classified as quarried stone, reclaimed asphalt, reprocessed material, or recycled concrete.
3. Liquid limit and plasticity
   - Determine the liquid limit and plasticity index using material passing the No. 40 sieve of each individual component material and then on the blended material.
   - Perform plasticity checks, as specified under 730.3.2, by using the Hand Rolling Method detailed in section 5 of AASHTO T90.
   - Liquid limit and plasticity testing are not required on reclaimed asphalt or reprocessed material.

(2) Ensure that both QC and QV stockpile test results conform to the specifications before placing material. If either the QC or the QV test fails, both the QC and QV technicians will resample the stockpile side-by-side and rerun the tests. If either side-by-side test fails, submit a written description of corrective action taken. If the corrective action results in a passing process control test, the department will retest to confirm that the resulting material is conforming.

(3) Stockpile tests[1] can be used for multiple projects. If placement on a project does not begin within 120 calendar days after the date the stockpile sample was obtained, retest the stockpile before placement begins.

[1] Replace the stockpile test with an in-place production test for concrete pavement recycled and processed on-site; test on the first day of production.

(4) Obtain placement samples after the material is bladed, mixed, and shaped, but before watering and compacting, except as follows:

1. Sample 3-inch material and lift thicknesses of 3-inch or less from the stockpile at loadout.
2. Do not sample from material used to maintain local traffic or from other areas of temporary base that will not remain in place after the contract.
3. No placement testing is required on days when only temporary base material is placed. Acceptance of temporary base materials is based on visual inspection.

730.3.2 Increase allowed reporting time for aggregate with recycled material.

730.3.2 Contractor QC Testing

(1) Provide stockpile test results to the engineer before placing material.

(2) Split and label each QC sample. Retain the split for 10 calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.

(3) Perform QC gradation, fracture, liquid limit, and plasticity testing of each base aggregate size, source or classification, and type at the following frequencies:

- One stockpile test before placement including gradation, fracture, liquid limit, and plasticity.
- Conduct one gradation test per lot. One lot is defined as 3000 tons of material placed. The contractor may include partial quantities of less than or equal to 750 tons with the previous lot. For partial lots exceeding 750 tons, notify the engineer who will direct additional testing to represent that partial lot.
- One fracture test for each gradation test. When the fracture 4-point running average is above the lower warning limit, the testing frequency may be reduced to one fracture test per ten gradation tests or fraction thereof. The reduced test frequency applies only as long as the running average remains above the lower warning limit.

- One plasticity and liquid limit test for the first gradation test. Thereafter, perform one plasticity check, per ten gradation tests or fraction thereof. If the soil cannot be rolled into a 3 mm-diameter thread, then it is non-plastic (NP) and the complete test need not be performed; report the plasticity Index as NP. If the material can be rolled into a thread, then perform both complete tests to determine the liquid limit and the plasticity index.

(4) Submit test results to the engineer within 1 business day of sampling, except an aggregate classification with recycled asphalt may be submitted within 3 business days of sampling.

730.3.3 Increase retain time and QV testing frequency, and for aggregate with recycled material, reporting time.

730.3.3 Department QV Testing

(1) The department will notify the contractor's project materials coordinator before obtaining a sample.

(2) The department will split each sample, test half for QV, and retain the other half for 10 calendar days.

(3) The department will conduct QV testing for gradation, fracture, liquid limit, and plasticity of each base aggregate size, source or classification, and type as follows:

1. One stockpile QV test from each source before placement.
2. At least one QV test per 15,000 tons of material placed, or fraction thereof.

(4) The department will provide test results to the contractor within 2 business days of sampling, or for an aggregate classification with recycled asphalt, within 3 business days of sampling.

730.3.4 Small Quantity Testing

730.3.4.1 Revise small quantity threshold and clarify QC testing requirements.

730.3.4.1 Contractor QC Testing

(1) For small quantity contracts with <= 750 tons, submit 2 gradation, fracture, liquid limit, and plasticity production tests or conduct 1 QC gradation, fracture, liquid limit, and plasticity stockpile test. Production tests are valid for 3 years from the date the production sample was obtained. Begin placement within 3 years of the date sampled.

(2) For small quantity contracts with <= 6000 tons and >750 tons, perform gradation, fracture, liquid limit, and plasticity testing of each base aggregate size, source or classification, and type at the following frequencies:

1. Conduct one QC stockpile test before placement.
2. Submit 2 production tests or conduct 1 QC loadout test instead of placement tests. Production tests are valid for 3 years from the date the production sample was obtained; the first day of placement must be within 3 years of the date sampled.
3. If the actual quantity placed is more than 6000 tons, on the next day of placement perform one additional random QC test for each 3000 tons of overrun, or fraction thereof.

(3) Submit test results to the engineer within 1 business days of sampling, except an aggregate classification with recycled asphalt may be submitted within 3 business days of sampling

730.3.4.2 Department QV Testing

(1) The department will conform to 730.3.3 but may waive QV testing for contract bid item quantities of 6000 tons or less.

730.3.5 Corrective Action

(1) Do not blend additional material on the roadbed to correct gradation problems.

(2) Consider corrective action when a running average trends toward a warning limit.

(3) Notify the engineer when a running average exceeds a warning limit. When two consecutive running averages exceed a warning limit, the engineer and contractor will discuss appropriate corrective action. Perform the engineer's recommended corrective action and increase the testing frequency as follows:

1. Increase gradation testing to at least one test per 1000 tons placed.
2. Increase fracture testing to at least one fracture test for each gradation test.

(4) If corrective action improves the property in question such that the running average is within the warning limits, the contractor may return to the testing frequency specified in 730.3.2. If corrective action does not improve the property in question, and the running average is still in the warning band, then repeat the steps outlined above starting with engineer notification.

(5) If a QV test result does not conform to the specifications, the engineer will inform the contractor and the QV test will be added to the QC data and included in the running average, as if it were an additional QC test.

(6) If a running average is never established, individual placement tests are used for acceptance.

(7) If an individual QC or QV test result is significantly out of specification limits, notify the other party, stop placing base, suspend other activities that may affect the area in question, and jointly investigate to determine the extent of nonconforming material. Both parties must document the investigative work.

(8) Test results are considered significantly out of spec limits if meeting one or more of the following:

1. A gradation spec limit for the No. 200 sieve is exceeded by more than 3.0 percent.
2. A gradation spec limit for any sieve, other than the No. 200, is exceeded by more than 5 percent.
3. The fracture spec limit is exceeded by more than 10 percent.

(9) The engineer may direct the contractor to remove and replace any nonconforming material. If the engineer allows the nonconforming material to remain in place, it is subject to a pay reduction.

730.3.6 Nonconforming Material

(1) The department will determine the extent of nonconforming material as follows:

1. If an individual QC or QV gradation or fracture test is out of spec and a 4-point running average is never established, the material starting from the first out-of-spec QC or QV test and ending at the first subsequent QC or QV test that is within spec limits is nonconforming.
2. If a gradation or fracture 4-point running average exceeds a control limit, the material starting from the first running average outside of the control limit and ending at the first subsequent running average that is within the control limit is nonconforming.
3. If any individual QC or QV plasticity test is out of spec, the material starting from the first out-of-spec QC or QV test and ending at the first subsequent QC or QV test that is within spec limits is nonconforming.
4. If an individual QC or QV gradation or fracture test is significantly out of spec, the material starting from the first significantly out-of-spec QC or QV test and ending at the first subsequent QC or QV test that is within spec limits is nonconforming, even if the 4-point running average, that includes the significantly out-of-spec test, is within spec limits.

730.4 (Vacant)

730.5 Payment

(1) The department will administer pay reductions for nonconforming material under the Nonconforming QMP Base Aggregate Gradation, Nonconforming QMP Base Aggregate Fracture, and Nonconforming QMP Base Aggregate Plasticity administrative items.

(2) The department will calculate pay reductions for base aggregate with nonconforming gradation and fracture using the nonconforming quantity that remains in place, the bid item contract unit price, and a pay reduction percentage from table 730-1. The department will administer a 50 percent pay reduction for base aggregate with nonconforming plasticity or liquid limit that remains in place.

TABLE 730-1 Pay Reductions for Nonconforming Base Aggregate

% PAY REDUCTION	NONCONFORMING GRADATION		NONCONFORMING FRACTURE
	NO 200 SIEVE	SIEVES OTHER THAN NO 200	
5% to 10%	<= 1.5%	<= 3%	<= 5%
10% to 20%	> 1.5% to <= 3%	> 3% to <= 5%	> 5% to <= 10%
SIGNIFICANTLY OUT OF SPEC[1]			
20% to 40%	> 3%	> 5%	> 10%

[1] The engineer may assess pay reductions for individual QC or QV test results that are significantly out of spec even if the running average is within spec limits.

(3) The department will not apply more than one pay adjustment to a given quantity of material. If a quantity of material is nonconforming in more than one property, the department will apply the greater pay reduction.

APPENDIX B

Wisconsin Professional Baseball Park District
standard General Conditions to Construction Services Contract

Will be provided in an addendum

APPENDIX C

Current 2025 Milwaukee Brewers Baseball Schedule

2025 SCHEDULE

HOME AWAY All times CT. Game dates and times subject to change.

MARCH / APRIL

SUN	MON	TUE	WED	THU	FRI	SAT
				27 NYY 2:05	28	29 NYY 12:05
30 NYY TBD	31 KC 1:10	1 KC 6:40	2 KC 12:10	3 CIN 6:40	4 CIN 7:10	5 CIN 6:10
6 CIN 1:10	7	8 COL 7:40	9 COL 7:40	10 COL 2:10	11 AZ 8:40	12 AZ 7:10
13 AZ 3:10	14 DET 6:40	15 DET 6:40	16 DET 12:10	17	18 ATH 7:10	19 ATH 6:10
20 ATH 1:10	21 SF 8:45	22 SF 8:45	23 SF 8:45	24 SF 2:45	25 STL 7:15	26 STL 1:15
27 STL 1:15	28	29 CWS TBD	30 CWS TBD			

MAY

SUN	MON	TUE	WED	THU	FRI	SAT
				1 CWS TBD	2 CHC 7:10	3 CHC 6:10
4 CHC 1:10	5 HOU 6:40	6 HOU 6:40	7 HOU 12:10	8	9 TB TBD	10 TB TBD
11 TB TBD	12 CLE TBD	13 CLE TBD	14 CLE TBD	15	16 MIN 7:10	17 MIN 6:15
18 MIN 1:10	19 BAL 6:40	20 BAL 6:40	21 BAL 12:10	22 PIT 5:40	23 PIT 5:40	24 PIT 3:05
25 PIT 12:35	26 BOS 1:10	27 BOS 6:40	28 BOS 12:10	29	30 PHI 5:45	31 PHI 3:05

JUNE

SUN	MON	TUE	WED	THU	FRI	SAT
1 PHI 12:35	2 CIN 6:10	3 CIN 6:10	4 CIN 11:40A	5	6 SD 7:10	7 SD 6:35
8 SD 1:10	9 ATL 6:40	10 ATL 6:40	11 ATL 1:10	12 STL 6:40	13 STL 7:10	14 STL 3:10
15 STL 1:10	16	17 CHC 7:05	18 CHC 7:05	19 CHC 1:20	20 MIN 7:10	21 MIN 1:10
22 MIN 1:10	23 PIT 6:40	24 PIT 6:40	25 PIT 1:10	26	27 COL 7:10	28 COL 3:10
29 COL 1:10	30					

JULY

SUN	MON	TUE	WED	THU	FRI	SAT
		1 NYM 6:10	2 NYM 6:10	3 NYM 6:10	4 MIA 6:10	5 MIA 3:10
6 MIA 12:40	7 LAD 6:40	8 LAD 6:40	9 LAD 1:10	10	11 WSH 7:10	12 WSH 3:10
13 WSH 1:10	14	15	16	17	18 LAD 9:10	19 LAD 8:10
20 LAD 3:10	21 SEA 8:40	22 SEA 8:40	23 SEA 2:40	24	25 MIA 3:10	26 MIA 6:10
27 MIA 1:10	28 CHC 6:40	29 CHC 6:40	30 CHC 1:10	31		

AUGUST

SUN	MON	TUE	WED	THU	FRI	SAT
					1 WSH 5:45	2 WSH 3:05
3 WSH 12:35	4 ATL 6:15	5 ATL 6:15	6 ATL 6:15	7	8 NYM 7:10	9 NYM 6:10
10 NYM 1:10	11 PIT 6:40	12 PIT 6:40	13 PIT 1:10	14	15 CIN 5:40	16 CIN 5:40
17 CIN 12:40	18 CHC 7:05	19 CHC 7:05	20 CHC 7:05	21 CHC 1:20	22 SF 7:10	23 SF 6:10
24 SF 1:10	25 AZ 6:40	26 AZ 6:40	27 AZ 6:40	28 AZ 1:10	29 TOR 6:07	30 TOR 2:07
31 TOR 12:37						

SEPTEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
	1 PHI 3:10	2	3 PHI 6:40	4 PHI 3:10	5 PIT 5:40	6 PIT 5:40
7 PIT 12:35	8 TEX 7:05	9 TEX 7:05	10 TEX 1:35	11	12 STL 7:10	13 STL 6:10
14 STL 1:10	15	16 LAA 6:40	17 LAA 6:40	18 LAA 6:40	19 STL 7:15	20 STL 6:15
21 STL 1:15	22 SD 8:40	23 SD 8:40	24 SD 3:10	25	26 CIN 7:10	27 CIN 6:10
28 CIN 2:10	29	30				

BREWERS.COM

APPENDIX D

Wisconsin Professional Baseball Park District
Diversity Contracting Program

WISCONSIN PROFESSIONAL BASEBALL PARK DISTRICT

ADDRESS: 1 BREWERS WAY, MILWAUKEE WI 53214 **E-MAIL:** CONTACT@WIBASEBALLDISTRICT.COM **PHONE:**(414)902-4040

DIVERSITY CONTRACTING PROGRAM FORM INSTRUCTIONS

Is your firm a Diverse Firm?

Does your firm maintain one of the socio-economic status certifications listed at the top of the page 2 in the _____ Contracting Program? Please note, registration based solely on NAICS code and number of employees with the U.S. Small Business Administration **does not** qualify your firm as a Diverse Firm .

Does location bidding the work) Distressed Communities Index? To check if your firm is located in an Economically Distressed Community, please search by zip code at this link https://eig.org/dci/interactive-map.

YES!
You are done! Please submit proof of Diverse Firm qualification with your bid/ proposal.

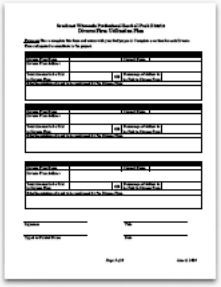
NO
The District maintains a Diverse Firm participation goal of 10 % for professional services and 15 % for improvement projects. Please review Diverse Firm contracting options and continue below.

Will your firm be utilizing a Diverse Firm subcontractor for this project?

YES!
We will be utilizing a Diverse Firm subcontractor. **Using a Diverse Firm** below.

NO
We were unable to secure a Diverse Firm subcontractor. Continue to the **Not Using a Diverse Firm**

Using a Diverse Firm

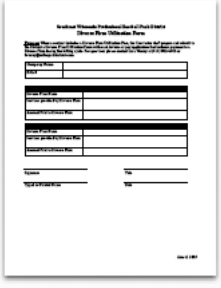


Utilization Plan

If your firm will be utilizing a Diverse Firm subcontractor, please complete this Utilization Plan. Submit this form with your bid/ proposal. To access this form, please use the following link.

https://wibaseballdistrict.com/wp-content/uploads/2024/06/Diversity-Firm-Utilization-Plan-2024-06.pdf

After your firm is awarded a bid or contract



Utilization Form

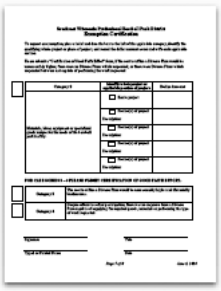
Complete the Utilization Form and submit it with each invoice that includes payments to the Diverse Firm subcontractor. To access this form, please use the following link.

https://wibaseballdistrict.com/wp-content/uploads/2024/06/Diverse-Firm-Utilization-Form-2024-06.pdf

OR

Not Using a Diverse Firm

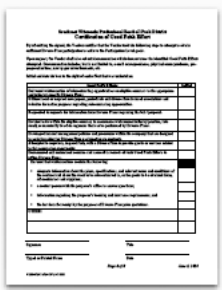
Exemption Certification



If the project was unable to include Diverse Firm participation, please review the Exemption Certification. Determine if your project qualifies for an exemption. If your project or a portion of your project qualifies for an exemption, please indicate this on the form. Submit this form with your bid/proposal. To access this form, please use the following link.

https://wibaseballdistrict.com/wp-content/uploads/2024/06/Diversity-Firm-Exemption-Certification-2024-06.pdf

If your project does not qualify for an exemption or you selected exemption category 3 or 4, please complete Certification of Good Faith Effort.



Certification of Good Faith Effort

Review the checklist and initial and date each item your firm performed to obtain Diverse Firm participation. Be sure to sign and date the form. Return this form with your bid/proposal. To access this form, please use the following link.

https://wibaseballdistrict.com/wp-content/uploads/2024/06/Diverse-Firm-Certification-of-Good-Faith-Effort-2024-06.pdf

Wisconsin Professional Baseball Park District
Diversity Contracting Program

Adopted: June 9, 2020

Program Overview

The
and politic, and a local governmental unit, separate and independent of the State of Wisconsin. Under Sec. 229.67, Wis. Stats., the jurisdiction of the District includes Milwaukee, Racine, Waukesha, Washington, and

be utilized for the inclusion of Diverse Firms in ongoing completion of imp

therefore, notifies all Contractors that no one will be discriminated against in the awarding of any Operations contract on the grounds of sex, race, color, national origin, sexual orientation, religious belief, age, veteran status, marital status, economic status, creed, ethnic identity, gender identity or expression or disability or legally protected status.

policy will be to enforce full, good faith compliance with this Program by all Contractors, and to provide Diverse Firms a meaningful opportunity for substantive participation in ongoing District Operations. This Program has been designed to promote and encourage open competition and participation in Operations activities and to enhance opportunities for Diverse Firms to successfully compete in Operations contracting.

It is the intent of this policy to widen opportunities for participation, increase competition, and establish procedures designed to assure Diverse Firms access to information and opportunities available to all Vendors. It is not the policy of the Wisconsin Professional Baseball Park District or its Board of Directors to provide information or other opportunities to Diverse Firms that will not be available to all other business enterprises.

Vendor commitments to District

Vendors shall take all reasonable steps necessary to ensure that Diverse Firms have a full and fair opportunity to compete for the performance of contracts. As a condition of submitting a bid or proposal, each Vendor hereby agrees to:

1. not discriminate against any person or business on the basis of sex, race, color, national origin, sexual orientation, religious belief, age, veteran status, marital status, economic status, creed, ethnic identity, gender identity or expression or disability or legally protected status;

2. ensure that Diverse Firms have fair opportunity to compete for and substantively perform with them in completing contracts;

3. commit best efforts to meet Diverse Firm procurement and contracting goals (inclusive of all accepted alternates, actual allowance values, change orders, modifications and amendments) through participation; and

4. acknowledge that they have not required Diverse Firms to engage in exclusive relationships with them as a condition to their participation in the bid or proposal.

The District places all Vendors on notice that the District will not hire those that engage in restraint of trade or attempts to monopolize utilization of Diverse Firms.

Diverse Firm Participation Level Goal

It is the goal of the District to provide an equal opportunity for Diverse Firms to participate in the performance of contracts. For qualifying Operations, the District will maintain goals that:

10% of the aggregated dollar value of Service Projects, and

15% of the aggregated dollar value of Improvement Projects contracts awarded on District Operations

A Diverse Firm is a firm fulfilling at least one of the following:

Maintains one or more of the socio-economic status certifications from a federal, state or local government agency or by a third-party certifier (Minority Supplier Diversity Council, National Women Business Owners Corporation, Disability: IN, National LGBT Chamber of Commerce, etc.) including, but not limited to the following:

- Disabled-Owned Business Enterprise (DOBE)
- Disadvantaged Business Enterprise (DBE)
- Lesbian, Gay, Bisexual, Transgender Business Enterprise (LGBTBE)
- Minority-Owned Business Enterprise (MBE)
- Service -Disabled Veteran-Owned Small Business (SDVOSB)
- Small Business Enterprise (SBE)
- Women-Owned Business Enterprise (WBE)
- Veteran-Owned Small Business Enterprise (VOSB)
- Historically Underutilized Business Zone (HUBZone)
- 8(a) Business Development Program (8(a))

Maintains a physical business location in an Economically Distressed Community.

Can produce other documentation verifying it qualifies as a Diverse Firm. This is designed to cover sole proprietorships, small partnerships, closely held corporations and companies that do not have the resources to seek a governmental or third-party certification.

The District and Contractors will use best efforts to utilize Diverse Firms that have provided written evidence confirming their status as a Diverse Firm for their performance of Operations contracts consistent with the

and/or services provided by a Diverse Firm that operates as a pass-through broker. The District reserves the right to set specific Diverse Firm percentage goals for each Operations project bid package, based on availability of Diverse Firms to perform the work necessary for the project.

Process

Reasonable efforts will be made by the District and Vendors to seek out Diverse Firms for the procurement of goods or services and, in particular, Diverse Firms from the Jurisdiction.

Bidding process

In submitting a bid/proposal, Vendors shall comply with the following submittal requirements. Failure to submit complete information and/or provide documents in accordance with this section shall entitle the District to reject the Vendor /proposal as non-conforming.

Vendors that are Diverse Firms must submit written evidence confirming their status as a Diverse Firm.

Vendors that are not themselves a Diverse Firm must submit with their bid/proposal to the District a sworn

Except in cases where the bidder/proposer has submitted an Exemption Certification in accordance with this Program, the Diverse Firm Utilization Plan must commit to the expenditure of a specific dollar amount or percentage of final contract amount of participation by each such Diverse Firm included in the Utilization Plan.

The Utilization Plan may include a reduction or exemption request, supplying information as required in this Policy.

Process after the contract is awarded
Upon approval and award of a contract, the Contractor will maintain the Participation Level approved in its contract, as may be amended from time to time in writing by the District,
Operations work or services.

If the contract includes a Utilization Plan, the Contractor shall prepare and submit to the District a Diverse Firm Utilization Form with each invoice or pay application that includes payment to a Diverse Firm during that billing cycle. Failure to submit the required form to the District may result in delay of payments.

Any changes in the qualifying status of the Diverse Firm under this program shall be reported to the District immediately.

The District shall be entitled to request, and the Contractor will submit to the District, a copy of its executed Diverse Firm subcontract within fifteen (15) days after the District makes a written request.

If, during the performance of an Operations contract, the Contractor is not in compliance with the Participation Level approved in its contract, fails to provide adequate documentation of compliance, or submits any documentation regarding a Diverse Firm that contains false, misleading or fraudulent information, the District may take one or more of the following actions:

1. overhead and profit of the Contractor.
2. Terminate , in whole or in part, for cause.
3. Deny participation on other portions of the Operations and/or in any future contracts awarded by the District.
4. Any other remedy available to the District at law or in equity.

If any document or statement submitted to the District or Contractor by a Diverse Firm contains false, misleading or fraudulent information, the District will require the Contractor to terminate the Diverse Firm and make reasonable efforts to identify and engage a qualified Diverse Firm as its replacement.

Exemption Certification
The District and Vendors will make every effort to include as much Diverse Firm participation as possible. However, if any of the following criteria identified below are met, the project/contract dollars or portion of a project/contract dollars will be exempt from Participation Level goals.

1. The procurement of insurance and office necessities, including, but not limited to, software, hardware, and technology, or other services and the payment of government-imposed fees, taxes, and permitting.
2. The procurement of materials, labor, equipment or goods uniquely designed for the needs of the baseball park facility.
3. The cost to utilize a Diverse Firm would be unreasonably higher and financially burdensome.
4. Despite efforts to solicit participation, there was no response from a Diverse Firm capable of supplying the required goods, materials or performing the type of work requested.

If any of the criteria in categories 2 4 above are met, the Vendor is responsible for submitting the Exemption Certification form, a Certification of Good Faith Effort and, if requested by the District, supporting documentation which demonstrated the identified Good Faith Efforts attempted. The supporting documentation may include e-mail correspondence, physical correspondence, pre-proposal notices, newspaper advertisements, etc.

demonstrating the lack of response, or detail justifying why the Diverse Firm respondents were not capable of performing the work or that the costs were excessive.

Definitions

In addition to those definitions set forth elsewhere in this document, when used in this Program, the following terms (whether used in singular or plural tense) shall have the meanings identified below:

Bid / Proposal: Offer to provide goods and/or services for a specified price.
Contractor: All construction contractors and Service Providers hired directly by the District for any Improvement Projects and/or any Service Projects related to the Operations.
Economically Distressed Community:
identified by the Distressed Communities Index (DCI) or an equivalent database.
Participation Levels: The percentage level goals for aggregate participation of Diverse Firms established within this Program.
Reasonable efforts/ good faith efforts: All commercially reasonable efforts necessary and practicable to increase the opportunities available in order to meet the applicable Diverse Firm Participation Levels.
Service Provider: Any architect, engineer, surveyor, environmental analyst, developer, legal, accounting and audit, marketing/public communications or other professional service consultant, including District management and administrative staff, retained to perform services related to the Operations.
Vendor: A person or company offering the District a good and/or service for sale.

Forms

Diverse Firm Utilization Plan (submitted with Vendor Bid/Proposal)
Diverse Firm Utilization Form (submitted with Contractor invoices or pay applications)
Exemption Certification (submitted with Vendor Bid/Proposal, if necessary)
Certification of Good Faith Effort (submitted with Vendor Bid/Proposal, if necessary)

Wisconsin Professional Baseball Park District

Diverse Firm Utilization Plan

Purpose: Please complete this form and return with your bid/proposal. Complete a section for each Diverse Firm anticipated to contribute to the project.

Diverse Firm Name			Contact Name	
Diverse Firm Address				
Total Amount to be Paid to Diverse Firm		**OR**	Percentage of dollars to be Paid to Diverse Firm	
Brief description of work to be performed by the Diverse Firm				

Diverse Firm Name			Contact Name	
Diverse Firm Address				
Total Amount to be Paid to Diverse Firm		**OR**	Percentage of dollars to be Paid to Diverse Firm	
Brief description of work to be performed by the Diverse Firm				

Diverse Firm Name			Contact Name	
Diverse Firm Address				
Total Amount to be Paid to Diverse Firm		**OR**	Percentage of dollars to be Paid to Diverse Firm	
Brief description of work to be performed by the Diverse Firm				

Signature ______________________ Title ______________________

Typed or Printed Name ______________________ Date ______________________

Wisconsin Professional Baseball Park District
Diverse Firm Utilization Form

Purpose: When a contract includes a Diverse Firm Utilization Plan, the Contractor shall prepare and submit to the District a Diverse Firm Utilization Form with each invoice or pay application that includes payment to a Diverse Firm during that billing cycle. For questions, please contact Lisa Wozny at (414) 902-4043 or lwozny@wibaseballdistrict.com.

Company Name	
P.O. #	

Diverse Firm Name	
Services provided by Diverse Firm	
Amount Paid to Diverse Firm	

Diverse Firm Name	
Services provided by Diverse Firm	
Amount Paid to Diverse Firm	

Signature

Title

Typed or Printed Name

Date

Wisconsin Professional Baseball Park District
Exemption Certification

To request an exemption, please initial and date the box to the left of the applicable category, identify the qualifying whole project or phase of project, and record the dollar amount associated with each applicable section.

Please submit a f the cost to utilize a Diverse Firm would be unreasonably higher, there were no Diverse Firms which responded, or there were Diverse Firms which responded but were not capable of performing the work requested.

	Category 2	Identify whole project or applicable portion of project.	Dollar Amount
	Materials, labor, equipment or specialized goods unique for the needs of the baseball park facility.	☐ Entire project.	
		☐ Portion(s) of project Description:	
		☐ Portion(s) of project Description:	
		☐ Portion(s) of project Description:	
		☐ Portion(s) of project Description:	

FOR CATEGORIES 3 4 PLEASE SUBMIT CERTIFICATION OF GOOD FAITH EFFORT.

	Category 3	The cost to utilize a Diverse Firm would be unreasonably higher and financially burdensome.
	Category 4	Despite efforts to solicit participation, there was no response from a Diverse Firm capable of supplying the required goods, materials or performing the type of work requested.

Signature _____ Title _____

Typed or Printed Name _____ Date _____

Wisconsin Professional Baseball Park District
Certification of Good Faith Effort

By submitting the signed, the Vendor certifies that the Vendor took the following steps to attempt to obtain sufficient Diverse Firm participation to achieve the Participation Level goals.

Upon request, the Vendor shall also submit documentation which demonstrates the identified Good Faith Efforts attempted. Documentation includes, but is not limited to, e-mail correspondence, physical correspondence, pre-proposal notices, newspaper advertisements, etc.

Initial and date the box to the right of each effort that was undertaken.

Good Faith Efforts	Initial
Delivered written notice of subcontracting opportunities on eligible contracts to the appropriate and industry-specific Diverse Firms.	
Utilized local or targeted newspapers, periodicals and diverse firm focused associations and websites for notice purposes regarding subcontracting opportunities.	
Responded to requests for information from Diverse Firms regarding the bid / proposal.	
Divided tasks within the eligible contract, in accordance with normal industry practice, into small, economically feasible segments that can be performed by Diverse Firms.	
Developed internal management policies and procedures within the company that are designed to assist in achieving Diverse Firm participation on contracts.	
Attempted to negotiate, in good faith, with a Diverse Firm to provide goods or services related to this contracting opportunity.	
Documented and maintained accurate and accessible records of such Good Faith Efforts to utilize Diverse Firms.	
Ensured that written notices contain the following:	
x adequate information about the plans, specifications, and relevant terms and conditions of the contract and about the work to be subcontracted to, or the goods to be obtained from, subcontractors and suppliers;	
x	
x	
x the last date for receipt by the proposer of Diverse Firm price quotations.	
OTHER:	

Signature _____ Title _____

Typed or Printed Name _____ Date _____