



03/10/2026

City of Waukesha
Department of Community Development
Attn: Plan Commission
201 Delafield Street,
Waukesha, WI 53188

RE: Plan Commission Submittal – New Concrete Pad
Property Address: 1101 W St Paul Ave, Waukesha, WI 53188

Dear Plan Commission Members,

On behalf of INNIO Waukesha Engine, we are submitting plans for review and approval for the installation of a new concrete equipment pad located behind the existing R&D building at the above-referenced property.

The proposed work consists of constructing a new 80' x 45' concrete pad to support testing operations associated with the existing INNIO Waukesha Engine R&D building. The pad will be located in the southeast portion of the existing paved area and will not involve any modifications to the existing building structure.

Plan Commission review is being requested because the installation of the concrete pad will create additional impervious surface area on the site. No changes are proposed to site access, parking, building use, landscaping, or the overall site layout.

The attached plans illustrate the proposed location and dimensions of the concrete pad, as well as the relationship to the existing building and surrounding site features.

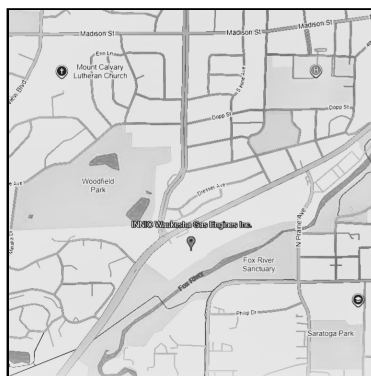
We respectfully request Plan Commission approval of the proposed improvement. Please feel free to contact me if additional information is required.

Sincerely,
Daniel Colvin
Project Manager
Riley Construction
(262) 220-3824
DanielC@rileycon.com

KENOSHA
MILWAUKEE
MADISON
WAUKEGAN

INNIO Waukesha Engine: ENGINE TEST CELL SUPPORT PAD

1101 W St. Paul Ave
Waukesha, WI 53188

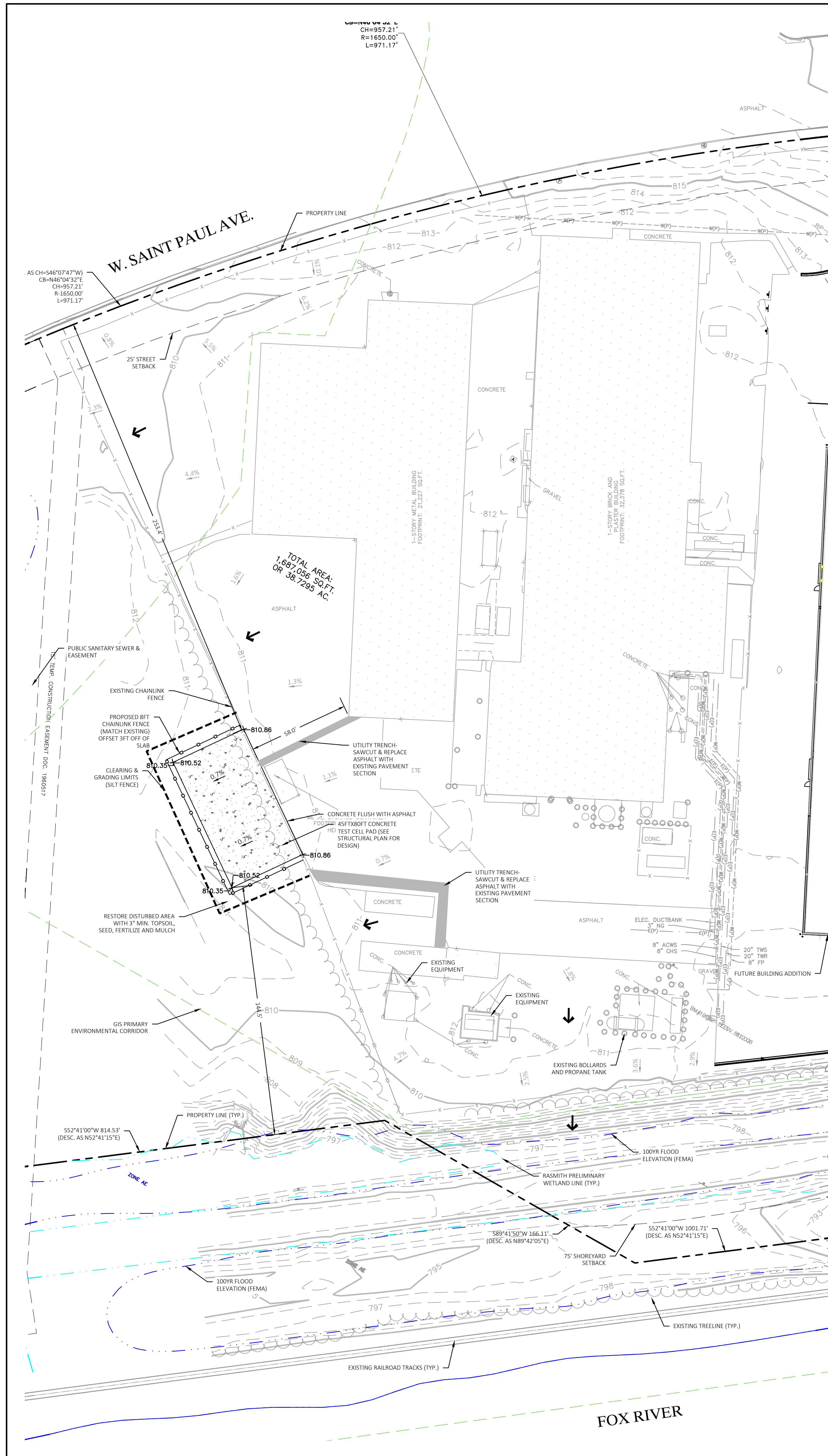


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All site improvements and construction shown on the plans shall conform to the City of Waukesha Development Handbook & Infrastructure Specifications. Where the plans do not comply, it shall be the sole responsibility and expense of the Developer to make revisions to the plans and/or constructed infrastructure to comply.

INNIO Waukesha Engine: ENGINE TEST CELL SUPPORT PAD





DIVISION 1 - GENERAL REQUIREMENTS

- 01 41 00 - REGULATORY REQUIREMENTS
- THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED:
 - WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) STORM WATER TECHNICAL STANDARDS
 - WISCONSIN EROSION CONTROL PRODUCT ACCEPTABILITY LIST
 - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (SSWCW)
 - WISCONSIN ADMINISTRATIVE CODE SECTIONS SPS 181-36.00
 - WISCONSIN DEPARTMENT OF TRANSPORTATION (WDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION
 - WISCONSIN DEPARTMENT OF TRANSPORTATION (WDOT) APPROVED PRODUCT LISTS (APL)
 - FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 - WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD)
 - UNITED STATES DEPARTMENT OF JUSTICE ADA STANDARDS
 - UNITED STATES DEPARTMENT OF TRANSPORTATION ADA STANDARDS FOR TRANSPORTATION FACILITIES
 - MUNICIPALITY DEVELOPMENT STANDARDS
 - COUNTY DEVELOPMENT STANDARDS
 - THE OWNER, ENGINEER AND MUNICIPALITY SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION ACTIVITIES.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS AND FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK FROM THE INSTALLED BARRIERS.
 - SHOP DRAWINGS AND/OR MANUFACTURER'S PRODUCT DATA SUBMITTALS ARE REQUIRED ONLY IF THE PRODUCT OR METHOD OF CONSTRUCTION IS DIFFERENT FROM THAT SPECIFIED OR IF REQUIRED BY THE MUNICIPAL ENGINEER.
 - ALL DOCUMENTS SUBMITTED FOR REVIEW SHALL HAVE THE SPECIFIC MATERIAL, PART, SIZE, ETC. INDICATED IN SOME FASHION. EXAMPLE: A FITTING OUT SHEET HAS MULTIPLE PRESSURE RATING FOR DIFFERENT SIZE BENDS. HIGHLIGHT THE PRESSURE CLASS & SIZE TO BE USED ON PROJECT. ALL SUBMITTALS MUST BE IDENTIFYING THE SPECIFIC MATERIAL BEING USED WILL BE REJECTED.
 - CONTRACTOR SHALL SUBMIT A PDF COPY AND AN EXPLANATION AS TO HOW THE SUBSTITUTION MEETS THE PROPOSED DESIGN (PRODUCT SPECIFICATION SHEETS WITHOUT EXPLANATION WILL NOT BE ACCEPTED) TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT PROCEED UNTIL THE OWNER'S APPROVAL IS GIVEN IN PROJECT SCHEDULING CONTRACTOR SHALL ACCOUNT FOR 5 WORKING DAYS FOR SUBMITTAL REVIEW IN THE EVENT SUCH SUBSTITUTION IS APPROVED. THE OWNER WILL REQUIRE FROM THE CONTRACTOR A CREDITED RESPONSIBILITY FOR THE CONTRACT AMOUNT EQUAL TO ANY SAVINGS IN MATERIAL COST RESULTING FROM USE OF THE PROPOSED SUBSTITUTE.
 - THE CONTRACTOR SHALL ASSUME THE SOLE RESPONSIBILITY FOR THE QUALITY OF WORK. ANY CHANGES OR ADJUSTMENTS ARE RECOMMENDED BY THE CONTRACTOR, THEY MAY BE MADE ONLY UPON WRITTEN APPROVAL OF THE OWNER OR REPRESENTATIVE.
 - ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE OWNER OR THEIR REPRESENTATIVE SHALL DECIDE ALL QUESTIONS WHICH SHALL ARISE AS TO THE QUALITY AND ACCEPTABILITY OF MATERIALS FURNISHED, WORK PERFORMED, AND WORKMANSHIP. INTERPRETATION OF THE PLANS AND SPECIFICATIONS BY THE OWNER OR THEIR REPRESENTATIVE SHALL DETERMINE THE AMOUNT OF WORK PERFORMED AND MATERIALS FURNISHED.
 - FAILURE OR NEGLIGENCE ON THE PART OF THE OWNER OR THEIR REPRESENTATIVE TO CONDEMN OR REJECT SUBSTANDARD OR INFERIOR WORK OR MATERIALS SHALL NOT BE CONSTRUED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR MATERIALS. IF IT BECOMES EVIDENT AT ANY TIME PRIOR TO THE FINAL ACCEPTANCE OF THE WORK BY THE OWNER, NEITHER SHALL IT BE CONSTRUED AS BARRING THE OWNER, AT ANY SUBSEQUENT TIME, FROM THE RECOVERY OF DAMAGES OR FROM A SUM OF MONEY AS MAY BE NEEDED TO BUILD ANEW ALL PORTIONS OF THE SUBSTANDARD OR INFERIOR WORK OR REPLACEMENT OF IMPROPER MATERIALS WHEREVER FOUND.
 - INSPECTORS EMPLOYED BY THE OWNER SHALL BE AUTHORIZED TO INSPECT ALL WORK DONE AND ALL MATERIAL FURNISHED. SUCH INSPECTION MAY EXTEND TO ALL OR ANY PART OF THE WORK AND TO THE PREPARATION, FABRICATION OR MANUFACTURE OF THE MATERIALS TO BE USED. THE INSPECTOR IS NOT AUTHORIZED TO APPROVE OR ACCEPT ANY PORTION OF THE COMPLETED PROJECT. HE SHALL HAVE THE ATTENTION OF THE CONTRACTOR TO ANY FAILURE OF THE WORK OR MATERIALS TO CONFORM TO THE SPECIFICATIONS AND CONTRACT, AND SHALL HAVE THE AUTHORITY TO REJECT MATERIALS. ANY DISPUTE BETWEEN THE CONTRACTOR AND CONTRACTOR SHALL BE REFERRED TO THE OWNER OR THEIR REPRESENTATIVE. ANY ADVICE WHICH THE INSPECTOR MAY GIVE TO THE CONTRACTOR SHALL IN NO WAY BE CONSTRUED AS ENDORSEMENT OR GUARANTEE OF THE CONTRACTOR'S WORK OR RELIEFING THE CONTRACTOR FROM FULFILLING ANY OF THE TERMS OF THE CONTRACT.
 - ALL MATERIALS AND EACH PART OF DETAIL OF THE WORK SHALL BE SUBJECT TO ALL TIMES TO INSPECTION BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. THE AUTHORITY HAVING JURISDICTION AND THE CONTRACTOR WILL BE HELD STRICTLY TO THE TRUE INTENT OF THE SPECIFICATIONS IN REGARD TO QUALITY OF MATERIALS, WORKMANSHIP AND THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE ALLOWED ACCESS TO ALL PARTS OF THE WORK AND SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR AS IS DETERMINED BY THE OWNER OR HIS REPRESENTATIVE, TO MAKE A REASONABLE VISUAL INSPECTION.
 - ALL WORKMANSHIP SHALL CONFORM TO THE BEST STANDARD PRACTICE, UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING TO THE OWNER OR INDUSTRIAL MANUFACTURERS SHALL BE USED AS GUIDES FOR THE STANDARDS OF WORKMANSHIP.
 - ALL EXPOSED ITEMS OF WORK SHALL PRESENT A NEAT WORKMANLIKE APPEARANCE AND SHALL BE AS PROTECTED TO SHIELD AND PROTECT THEM FROM MEASURING OR LEVELING INSTRUMENTS. GENERALY USED IN THE RESPECTIVE TYPES OF WORK. ITEMS OF WORK SHALL BE SOUND AND FULLY PROTECTED AGAINST DAMAGE AND PRESERVE DETERMINED BY THE CONTRACTOR. IT IS SPECIFICALLY UNDERSTOOD THAT IN ALL QUESTIONS OF QUALITY AND ACCEPTABILITY OF WORKMANSHIP, THE CONTRACTOR AGREES TO ABIDE BY THE DECISION OF THE OWNER OR THEIR REPRESENTATIVE.
 - ALL MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS DEFECTIVE, AND ALL SUCH MATERIALS, WHETHER IN-PLACE OR NOT, SHALL BE REMOVED FROM THE PROJECT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REMOVAL AND REPLACEMENT FROM ANY MONIES DUE OR WHICH MAY BECOME DUE TO THE CONTRACTOR.
 - AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE THE OWNER OR THEIR REPRESENTATIVE WITH A MARKED-UP SET OF DRAWINGS SHOWING ALL CHANGES OR VARIATIONS FROM THE ORIGINAL DRAWINGS. THESE CHANGES SHALL BE MADE ON A SET OF FIELD DRAWINGS AS THE WORK TAKES PLACE, NOT AFTER THE WORK IS COMPLETE. THIS SET OF DRAWINGS SHOULD BE KEPT CLEAN IN A LOCATION AT THE SITE WHERE THE OWNER OR THEIR REPRESENTATIVE MAY EXAMINE THEM.
 - THE MARKED-UP DRAWINGS SHALL BE ACCURATE, ARBITRARY MARKINGS ARE OF NO VALUE. CAREFUL MEASUREMENTS SHALL BE MADE TO LOCATE UNDERGROUND EXTERIOR AND UNDERGROUND INTERIOR WORK. GAS LINES, WATER LINES, ELECTRICAL CONDUIT, AND MISCELLANEOUS PIPING.
 - CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRAFFIC CONTROL PLANS AND PERMITTING FOR ALL TO BE COMPLETED PRIOR TO THE PUBLIC RIGHT-OF-WAY.

01 70 00 - EXECUTION & CLOSEOUT REQUIREMENTS

- THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND CONFORMING WITH THIS PLAN.
- EXISTING UTILITY INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. BASED ON BEST AVAILABLE PUBLIC RECORDS, AS-BUILT DRAWINGS, AND FIELD OBSERVATIONS. NO RESPONSIBILITY IS ASSUMED BY THE OWNER OR ENGINEER FOR ACCURACY OR COMPLETENESS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND NATURE OF EXISTING UTILITIES, AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, ELEVATIONS, AND SIZES OF EXISTING UTILITIES AND SHALL CHECK ALL PROPOSED UTILITY CONNECTIONS AND CROSSINGS PRIOR TO PROCEEDING WITH ANY WORK. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER SO REDESIGN MAY OCCUR IF NEEDED. COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT FROM THE OWNER SHALL BE PROVIDED TO THE CONTRACTOR. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SUBSEQUENT RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF THE BENCHMARKS AND HORIZONTAL CONTROL BY REFERENCING SURVEY COORDINATES TO KNOWN PROPERTY LINES, AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES IN ELEVATIONAL OR HORIZONTAL CONTROL. THE CONTRACTOR SHALL ABIDE BY THE ENGINEER'S CORRECTIONS.
- SURVEY BENCHMARKS AND CONTROL POINTS SHALL BE MAINTAINED AND PROTECTED FROM DISTURBANCE. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED AT ALL TIMES. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR. THE COST OF RESTORATION IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED.
- PUBLIC ROADS SHALL NOT BE FULLY CLOSED TO TRAFFIC AT ANY TIME. ALL INGRESS AND EGRESS TRAFFIC TO THE PROJECT SITE THROUGH THE CONSTRUCTION ENTRANCE SHALL BE CONTROLLED BY THE CONTRACTOR. ESTIMATE OF THE WORK RESOURCES AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE.
- REQUESTS FOR CLARIFICATION WILL BE INTERPRETED BY THE OWNER/ENGINEER PRIOR TO AWARD OF CONTRACT, AND WHEN NECESSARY, OFFICIAL WRITTEN RESPONSES WILL BE ISSUED. OFFICIAL WRITTEN RESPONSES SHALL BE BRINGING TO THE WORK. THE CONTRACTOR SHALL ABIDE BY THE ENGINEER'S RESPONSE.
- SHOULD ANY DISCREPANCIES BE DISCOVERED BY THE CONTRACTOR AFTER AWARD OF CONTRACT, NOTIFY OWNER/ENGINEER IMMEDIATELY. CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES SHALL NOT COMMENCE OR CONTINUE UNTIL AN OFFICIAL WRITTEN RESPONSE IS ISSUED.
- ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND WORKMANSHIP.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.

- NOTES:**
- SILT FENCE INSTALLATION AND MATERIALS SHALL CONFORM TO WNR CONSERVATION STANDARD 106.
 - SILT FENCE SHALL BE PLACED ON THE CONTOR AND NOT PERPENDICULAR TO THE CONTOUR. THE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE.
 - WHEN SILT FENCE IS INSTALLED ON A SLOPE, THE PARALLEL SPACING SHALL NOT EXCEED THE REQUIREMENTS IN THE TABLE BELOW.

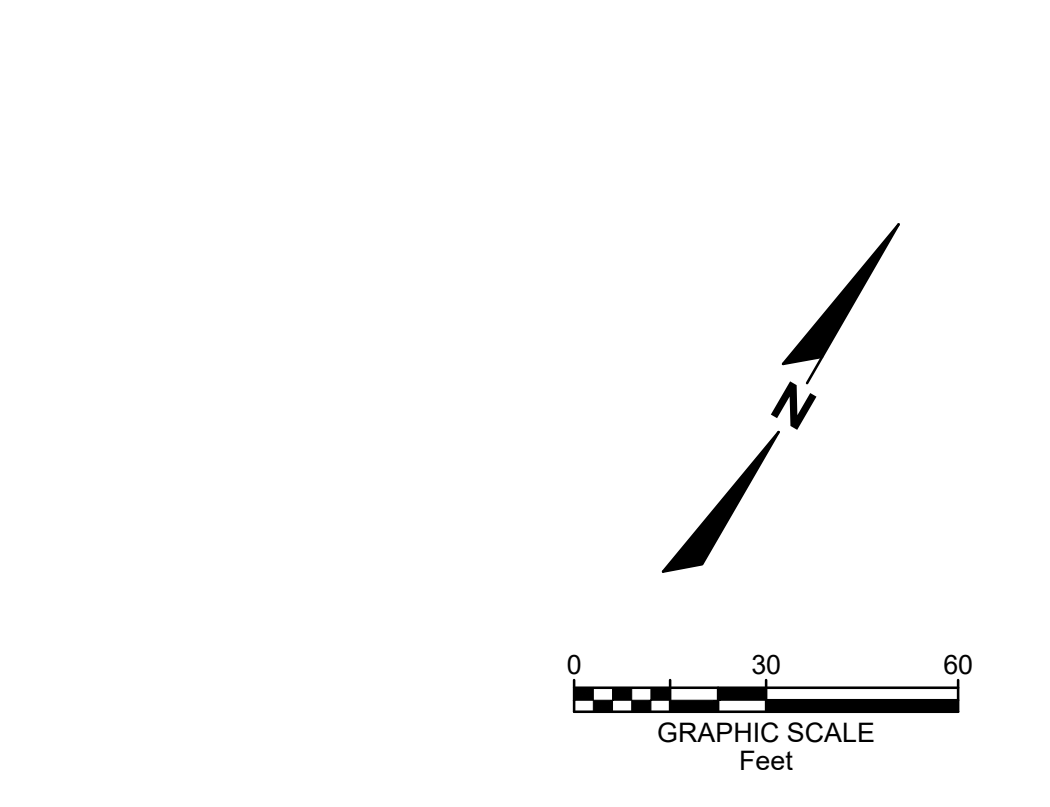
SLOPE	FENCE SPACING
< 2%	100 FEET
2 TO 5%	75 FEET
5 TO 10%	50 FEET
10 TO 20%	25 FEET
> 3.3%	20 FEET
 - INSTALLED SILT FENCES SHALL BE MINIMUM 14 INCHES HIGH AND A MAXIMUM OF 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.
 - A MINIMUM OF 20 INCHES OF THE POST SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.
 - SILT FENCE SHALL BE ANCHORED BY SPACING AT LEAST 3 INCHES OF THE FABRIC IN A 4-INCH TRENCH MADE BY E-WOOD TRENCH, OR 6-INCH V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
 - CONTRACT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS:
 - TWIST METHOD - OVERLAP THE END POSTS AND TWIST, OR ROTATE.
 - HOOK METHOD - HOOK THE END OF EACH SILT FENCE LENGTH.
 - SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
 - DAMAGED OR DECOMPOSED FENCES, UNDERROUTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR CORRECTED.
 - SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH ONE HALF THE HEIGHT OF THE FENCE.
 - SILT FENCES SHALL BE REMOVED ONCE THE DISTURBED AREA IS PERMANENTLY STABILIZED AND IS NO LONGER SUSCEPTIBLE TO EROSION.
 - WOOD - 1 1/2" X 1 1/2" OR KILN DRIED OAK OR HICKORY. FABRIC SHALL BE STAPLED USING 1/2-INCH MINIMUM STAPLES TO THE UPSLOPE SIDE OF THE FENCE IN AT LEAST 3 PLACES. POSTS SHALL BE A MINIMUM OF 3 FEET LONG FOR 24-INCH FENCE AND 4 FEET LONG FOR 36-INCH FENCE.
 - STEEL - MINIMUM 3 FEET IN LENGTH WITH STRENGTH OF 1.33 LB/FT AND HAVE PROJECTIONS FOR FASTENERS. FABRIC SHALL BE ATTACHED IN AT LEAST THREE PLACES ON THE UPSLOPE SIDE WITH 5/8" PLASTIC TIE STRAPS OR WIRE FASTENERS.

DIVISION 31 - EARTHWORK

- 31 10 00 - SITE CLEARING & DEMOLITION
- WORK SHALL CONSIST OF DEMOLITION, ABANDONMENT, AND REMOVAL OF EXISTING FOUNDATIONS, WALLS, SLABS, FENCES, PIPING, PAVEMENTS, AND OTHER MANMADE ITEMS INTERFERING WITH NEW CONSTRUCTION. WORK SHALL ALSO CONSIST OF CLEARING AND GRUBBING OF TREES, SHRUBS, VEGETATION, ROOTS, STUMPS, RUBBISH, AND OTHER PERSHABLE MATTER INTERFERING WITH NEW CONSTRUCTION.
 - ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
 - CALL 811 TO NOTIFY UTILITY PROVIDERS AND REQUEST FIELD LOCATION OF EXISTING UTILITIES WITHIN PROJECT LIMITS PRIOR TO ANY CONSTRUCTION RELATED ACTIVITIES.
 - INSTALL PERIMETERS OF FENCING AS INDICATED PRIOR TO COMMENCING ANY CONSTRUCTION RELATED ACTIVITY.
 - CLEARLY IDENTIFY ALL VEGETATION TO BE PRESERVED AND/OR RELOCATED PRIOR TO CLEARING AND GRUBBING.
 - PROTECT EXISTING IMPROVEMENTS TO REMAIN DURING CONSTRUCTION. ANY DAMAGED IMPROVEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION, OR AS OTHERWISE ACCEPTABLE TO THE OWNER.
 - REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
 - SAWCUT ALL PAVEMENT TO BE REMOVED IN STRAIGHT LINES TO FULL DEPTH.
 - DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS. BREAK UP CONCRETE SLABS THAT ARE 2 FEET OR MORE BELOW PROPOSED SUBGRADE TO PERMIT DRAINAGE.
 - DISCONNECT AND SEAL/CAP EXISTING UTILITIES TO BE REMOVED, RELOCATED, OR ABANDONED IN ACCORDANCE WITH REQUIREMENTS OF UTILITY PROVIDERS.
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING NECESSARY REMOVAL AND/OR RELOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
 - DO NOT INTERFERE WITH UTILITY SERVICE TO EXISTING FACILITIES UNLESS PERMITTED BY THE OWNER.
 - PODS LEFT BY REMOVALS SHALL BE LEVELLED TO PREVENT PONDING OF WATER.
 - REMOVE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS, TRASH, AND DEBRIS FROM THE PROJECT SITE. RUBBISH, TRASH, GARBAGE, AND LITTER SHALL BE PLACED IN SEALED CONTAINERS THROUGHOUT CONSTRUCTION.
- 31 20 00 - EARTH MOVING
- WORK SHALL CONSIST OF STRIPPING AND STORAGE OF TOPSOIL, EXCAVATION, EMBANKMENT, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE LAND BALANCE, COMPACTION, FINISH GRADING, SUBGRADE PREPARATION, AND REPLACEMENT OF TOPSOIL.
 - ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
 - ALL EARTHWORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SUBSTITUTIONS APPROVED BY THE ENGINEER DURING CONSTRUCTION BASED ON FIELD CONDITIONS, AND THESE REQUIREMENTS, THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER SHALL GOVERN.
 - EXCAVATE TO SUBGRADE REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS. SUBGRADE SHALL BE EXCAVATED TO A MINIMUM OF 18" BELOW PROPOSED SUBGRADE UNLESS OTHERWISE SPECIFIED. EXCAVATION SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE WORK.
 - EXISTING FOUNDATIONS, BUILDING REMNANTS, AND UNSATISFACTORY MATERIALS SHALL BE COMPLETELY REMOVED FROM WITHIN AND A MINIMUM OF 10 FEET BEYOND BUILDING PAVEMENT AREA. ANY RELATED EXCAVATION SHALL BE CONSTRUCTED WITH COMPACTED ENGINEERED FILL MATERIAL.
 - EXISTING FOUNDATIONS, BUILDING REMNANTS, AND UNSATISFACTORY MATERIALS SHALL BE REMOVED TO A MINIMUM OF 2 FEET BELOW PROPOSED SUBGRADE WITHIN CONCRETE AND PAVEMENT AREAS. ANY RELATED EXCAVATION SHALL BE CONSTRUCTED WITH COMPACTED ENGINEERED FILL MATERIAL.
 - AREAS SHALL BE GRADED TO WITHIN 1 INCH, MORE OR LESS, OF PROPOSED SUBGRADE. DEVIATIONS SHALL NOT BE DISING, HOLLOWING, AND AERATION TECHNIQUES SHALL BE USED TO DRY SUBGRADE PRIOR TO PROOF ROLLING.
 - IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, PROOF ROLL SUBGRADE BELOW BUILDING PAD AND PAVEMENT AREAS WHICH IS WEATHER WITH A FULLY LOADED TANGENT AXLE JUMP TRUCK WHERE COHESIVE SOILS ARE PREDOMINANT, AND WITH A SMOOTH DRUMMED VIBRATORY ROLLER WHERE GRANULAR SOILS ARE PREDOMINANT. SUBGRADE WHEN IT IS OBSERVED TO BUT OR DEFLECT EXCESSIVELY SHALL BE REWORKED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. DO NOT PROOF ROLL WET OR SATURATED SUBGRADE.
 - THE CONTRACTOR SHALL MAINTAIN POSITIVE SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING. SURFACE WATER AND GROUNDWATER SHALL BE PREVENTED FROM ENTERING EXCAVATIONS, PONDING ON PREPARED SUBGRADES, AND CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL EARTHWORK COMPUTATIONS AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO ACHIEVE LAND BALANCE.
 - TOPSOIL REPLACEMENT DEPTH SHALL BE AS CALLED OUT ON THE CIVIL OR LANDSCAPE PLANS, OR A MINIMUM OF 6" IN PARKING ISLANDS. ALL PARKING LOT ISLANDS TO BE BACKFILLED WITH TOPSOIL TO A MINIMUM DEPTH OF 18" BY GRADING CONTRACTOR TO INSURE LONG TERM PLANT HEALTH. GROWN ALL PLANTING ISLANDS A MINIMUM OF 6" TO PROVIDE PROPER DRAINAGE UNLESS OTHERWISE SPECIFIED.
- 31 25 00 - EROSION & SEDIMENTATION CONTROLS
- WORK SHALL CONSIST OF INSTALLATION OF TEMPORARY AND PERMANENT PRACTICES FOR SEDIMENTATION CONTROL, EROSION CONTROL, SOIL PROTECTION, AND REMOVAL OF PRACTICES UPON SITE STABILIZATION.
 - ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
 - INSTALLATION AND MAINTENANCE OF PRACTICES SHALL BE IN ACCORDANCE WITH APPLICABLE BEST TECHNICAL STANDARD, OR THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK IF A TECHNICAL STANDARD IS NOT AVAILABLE.
 - ALL PRACTICES SHALL BE INSTALLED PRIOR TO COMMENCING ANY LAND DISTURBING CONSTRUCTION RELATED ACTIVITY. EARTHWORK ASSOCIATED WITH INSTALLATION OF PRACTICES MAY OCCUR CONCURRENTLY.
 - ALL SPECIFIED PRACTICES SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH PERMIT REQUIREMENTS.
 - ALL PRACTICES SHALL BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER IN CONFORMANCE WITH PERMIT REQUIREMENTS.
 - ALL ACTIVITIES ON THE PROJECT SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME.
 - JUST GENERATED BY CONSTRUCTION RELATED ACTIVITIES SHALL BE MINIMIZED BY USE OF WATERING, CALCIUM CHLORIDE SURFACE TREATMENT, CONSTRUCTION SCHEDULING, OR OTHER APPROPRIATE MEASURES.
 - THE CONTRACTOR SHALL BE PREPARED FOR DEWATERING CONDITIONS BY HAVING APPROPRIATE PUMPS AND FILTER DEVICES ON-SITE. ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED PRIOR TO DISCHARGE FROM THE PROJECT SITE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE PROJECT SITE AND PUBLIC ROADS DURING CONSTRUCTION. PUBLIC ROADS SHALL BE KEPT FREE OF SEDIMENT TRACKED FROM AREAS UNDER CONSTRUCTION BY DAILY SWEEPING OR OTHER APPROPRIATE MEASURES.
 - ALL SEEDING SHALL BE ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
 - ALL SEEDER AREAS SHALL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN TO MAINTAIN A THICK, DENSE VEGETATIVE COVER.

DIVISION 32 - EXTERIOR IMPROVEMENTS

- 32 12 00 - ASPHALT PAVING
- WORK SHALL CONSIST OF FINE GRADING SUBGRADE, EXCAVATION BELOW SUBGRADE (IF NECESSARY), PLACEMENT OF CRUSHED STONE BASE, INSTALLATION OF HOT-MIX ASPHALT, PAVEMENT MARKING, SIGNAGE, AND CLEANUP.
 - ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
 - ASPHALT PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW SHALL BE FORMATTED USING WSDOT MIX DESIGN STANDARD DATA INPUT FORM/REPORT 249.
 - CRUSHED STONE BASE SHALL BE IN ACCORDANCE WITH SECTION 305 OF WSDOT STANDARD SPECIFICATIONS.
 - ASPHALTIC MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 455 OF WSDOT STANDARD SPECIFICATIONS.
 - CRUSHED STONE SHALL BE IN ACCORDANCE WITH SECTION 460 OF WSDOT STANDARD SPECIFICATIONS.
 - DO NOT CONDUCT ASPHALT PAVING IF ANY OF THE FOLLOWING CONDITIONS EXIST: CRUSHED STONE BASE IS WET OR EXCESSIVELY DAMP; TEMPERATURE IS BELOW 50 DEGREES FAHRENHEIT AT TIME OF BINDER COURSE.
 - INSTALLATION: WINTER WHEAT HAS BEEN BELOW 35 DEGREES FAHRENHEIT WITHIN 15 HOURS PRIOR TO LACK COAT APPLICATION; TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT AT TIME OF SURFACE COURSE INSTALLATION.
 - CONTRACT ASPHALT IN ACCORDANCE WITH SECTION 450 OF WSDOT STANDARD SPECIFICATIONS. COMPACT ASPHALT TO PRODUCE THE THICKNESS INDICATED WITHIN PLUS/MINUS 1/4-INCH FOR BINDER COURSE, AND WITHIN PLUS 1/4-INCH FOR SURFACE COURSE (NO MINUS).
 - APPLY TACK COAT BETWEEN ASPHALT COURSES AT A MINIMUM RATE OF 0.25 GAL/SY.
 - NO TRAFFIC SHALL BE ALLOWED ON ASPHALT AFTER FINAL ROLLING UNTIL IT HAS COOLED AND HARDENED.
 - FINAL ASPHALT SURFACE SHALL BE WITHIN A 1/8-INCH TOLERANCE AS DETERMINED BY USING A 10-FOOT STRIPPER COURSE. TOLERANCE SHALL BE WITHIN 1/8-INCH TOLERANCE FOR LONGITUDINAL AND TRANSVERSELY DEPRESSED AREAS EXCEEDING TOLERANCE.
 - A SLOPE NO GREATER THAN 1% IN ALL DIRECTIONS AT ADA PARKING STALLS AND ADJACENT UNLOADING AREAS IS REQUIRED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
 - SLOPE NO GREATER THAN 5% ALONG THE LENGTH OF THE ACCESSIBLE ROUTE IS REQUIRED. A SLOPE NO GREATER THAN 2% ACROSS THE WIDTH OF THE ACCESSIBLE ROUTE IS REQUIRED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
 - MATCH EXISTING ASPHALT PAVEMENT SECTION FOR TRENCH REPAIR.



SITE STATISTICS

CURRENT ZONING: M-2 GENERAL MANUFACTURING

SETBACK AND YARDS
STREET YARD: 25'
SIDE YARD: 10'
REAR YARD: 25'
SHOREYARD: 75' FROM ORDINARY HIGHWATER MARK

	SOFT	AC	COVERAGE
TOTAL EXISTING PARCEL	1,687,056	38.72	100.0%
LIMITS OF DISTURBANCE	6,767	0.16	0.41%

DESCRIPTION

DATE

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rosmith.com
CREATIVITY BEYOND ENGINEERING

roSmith

Brookfield, WI | Appleton, WI | Madison, WI
Cedarburg, WI | Naperville, IL | Irvine, CA

INNO: TEST CELL

CITY OF WAUKESHA, WI

SITE PLAN

WI SCNS IN
RYAN J. LANCOUR
E-36479
MILWAUKEE, WI
PROFESSIONAL ENGINEER
08/12/2026

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R.A. Smith, Inc.
DATE: 03/12/2026
SCALE: 1" = 30'
JOB NO. 3250244
PROJECT MANAGER:
RYAN J. LANCOUR, P.E.
DESIGNED BY: R.J.L.
CHECKED BY: R.J.L.

SHEET NUMBER

1 OF 1

STRUCTURAL GENERAL NOTES

- GENERAL**
- DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PROVISIONS OF THE WISCONSIN ADMINISTRATIVE CODE (IBC 2021).
 - INFORMATION IN THE STRUCTURAL GENERAL NOTES IS A SELECTED SUMMARY OF REQUIREMENTS. SEE SPECIFICATIONS FOR AMPLIFICATION OF REQUIREMENTS.
 - THERE ARE NO PROVISIONS FOR HORIZONTAL OR VERTICAL EXPANSION.
 - ELEVATIONS (XXX'-X") SHOWN ON PLANS ARE TO TOP OF STEEL, CONCRETE, OR PLYWOOD SHEATHING, UNO.
 - ALL CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS AS SHOWN ON THE DRAWINGS. WHEN DISCREPANCIES, CONFLICTS OR QUESTIONS ARISE, NOTIFY THE ARCHITECT.
 - COORDINATE LATERAL BRACING FOR NONSTRUCTURAL ELEMENTS, DESIGNED AND DETAILED BY COMPONENT SUPPLIERS, WITH THE PROJECT STRUCTURAL ENGINEER. DESIGN AND DETAIL SUCH BRACING TO APPLY LOADS AS DIRECTLY AS POSSIBLE TO STRUCTURAL ELEMENTS AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
 - POST-INSTALLED MECHANICAL ANCHORS INSTALLED IN HARDENED CONCRETE SHALL BE QUALIFIED ACCORDING TO ACI 308.2. POST-INSTALLED ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE SHALL BE QUALIFIED ACCORDING TO ACI 308.4. THE CONTRACTOR IS RESPONSIBLE TO PERFORM DESIGN OF POST-INSTALLED ANCHORS NOT INDICATED ON THE STRUCTURAL DRAWINGS PER THE REQUIREMENTS OF ACI 318.
 - DO NOT CUT, NOTCH, SLEEVE, CORE DRILL OR OTHERWISE MODIFY OR REDUCE IN STRENGTH STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER.
 - DELEGATED DESIGN RESPONSIBILITIES ARE IDENTIFIED IN THE SPECIFICATIONS FOR VARIOUS SYSTEMS AND COMPONENTS IN THE PROJECT. EXAMPLES OF SYSTEMS WHICH REQUIRE DELEGATED DESIGN INCLUDE, BUT ARE NOT LIMITED TO SUPPORT OF MEP SYSTEMS, ETC. THE CONTRACTOR, OR THE SYSTEM SUPPLIER HIRED BY THE CONTRACTOR, IS RESPONSIBLE FOR PROVIDING THESE DESIGN AND ENGINEERING SERVICES OR FOR SECURING THEM FROM A QUALIFIED SPECIALTY ENGINEER.
 - THE STRUCTURE SHOWN IN THESE DOCUMENTS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. IN ADDITION, THE FULL STRUCTURAL CAPACITY OF STRUCTURAL ASSEMBLIES AND COMPONENTS WILL NOT BE REALIZED UNTIL CONSTRUCTION OF THE STRUCTURAL SYSTEM IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL TEMPORARY BRACING AND SHORING REQUIRED TO PROVIDE STABILITY AND TO RESIST ALL CONSTRUCTION PHASE LOADS WHICH MAY BE IMPOSED ON THE PARTIALLY COMPLETED STRUCTURE.
 - THE STRUCTURE HAS NOT BEEN DESIGNED FOR SUPPORT OF CONSTRUCTION LOADS INCLUDING THOSE DUE TO CONSTRUCTION VEHICLES AND EQUIPMENT, MATERIAL HANDLING, STORAGE OR STOCKPILING OF MATERIALS, SHORING OR RE-SHORING AND ANY OTHER CONSTRUCTION ACTIVITY. THE STRUCTURE HAS BEEN DESIGNED FOR THE LOADS IDENTIFIED WITHIN THESE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL NOT IMPOSE CONSTRUCTION LOADS ON THE COMPLETED STRUCTURE WHICH EXCEED THESE DESIGN LOADS NOR WHICH EXCEED THE CAPACITY OF THE PARTIALLY COMPLETED STRUCTURE WITHOUT FIRST ENGAGING A STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO CONFIRM THAT THE LOAD-CARRYING CAPACITY, SERVICEABILITY AND FUNCTIONALITY OF THE STRUCTURE WOULD NOT BE COMPROMISED.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND FOR COMPLYING WITH ALL OSHA REGULATIONS.
 - DIMENSIONS WHICH ARE PROVIDED FOR OPENINGS, BLOCKOUTS, FLOOR DEPRESSIONS, CURBS, EQUIPMENT SUPPORT FRAMING, ETC. MAY BE AFFECTED BY THE ACTUAL EQUIPMENT PURCHASED BY THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, DEFINE AND COORDINATE REVISIONS REQUIRED TO ACCOMMODATE THE ACTUAL EQUIPMENT. PROPOSED REVISIONS MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.

- DESIGN LOADS**
- ROOF SNOW LOAD
GROUND SNOW LOAD 30 PSF
 - WIND LOAD PER ASCE 7-16
DESIGN WIND SPEED (ULTIMATE) 100 MPH
DESIGN WIND SPEED (NOMINAL) 85 MPH
RISK CATEGORY I
WIND EXPOSURE CATEGORY C
 - SEISMIC DESIGN DATA
SEISMIC IMPORTANCE FACTOR IE 1.0
RISK CATEGORY I
MAPPED SPECTRAL RESPONSE ACCELERATION S_s 0.077 g
MAPPED SPECTRAL RESPONSE ACCELERATION S₁ 0.049 g
SITE CLASS (ASSUMED) D
SPECTRAL RESPONSE COEFFICIENT S_{ds} 0.082 g
SPECTRAL RESPONSE COEFFICIENT S_{d1} 0.078 g
SEISMIC DESIGN CATEGORY B
 - BASIS OF DESIGN EQUIPMENT WEIGHTS
TEST CELL UNITS 25,000 LBS

- EXISTING CONSTRUCTION**
- EXISTING STRUCTURE TO REMAIN IS SHOWN SCREENED (SHADED). EXISTING STRUCTURE TO BE REMOVED IS GENERALLY NOT SHOWN ON STRUCTURAL DRAWINGS.
 - WHERE NEW CONSTRUCTION CONNECTS TO OR IS ADJACENT TO EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE FIELD MEASUREMENTS AND INVESTIGATIONS PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION OR CONSTRUCTION OF NEW COMPONENTS TO VERIFY DIMENSIONS, ELEVATIONS, AND CONDITIONS OF THE EXISTING STRUCTURAL MEMBER, CLADDING, DUCTWORK, ETC. REPORT DISCREPANCIES BETWEEN FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS TO THE ARCHITECT IMMEDIATELY SO CORRECTIVE MEASURES MAY BE TAKEN.
 - SHORE AND BRACE ALL EXISTING CONSTRUCTION AFFECTED BY REMOVAL OF EXISTING CONSTRUCTION OR SUPPORTIVE MEMBERS UNTIL NEW SUPPORTIVE MEMBERS ARE IN PLACE. DESIGN OF SHORING AND BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - DO NOT USE EXISTING CONSTRUCTION AS THE MATERIAL STAGING AREA OR FOR TEMPORARY BRACING DURING CONSTRUCTION OF THE ADJACENT NEW STRUCTURE WITHOUT THE REVIEW AND APPROVAL OF THE ARCHITECT.

- MATERIAL STRENGTHS**
- CONCRETE (f'c @ 28 DAYS)
ALL CONCRETE UNO 4,000 PSI
 - REINFORCING STEEL (Fy)
DEFORMED BARS (ASTM A615) 60,000 PSI
 - SOIL
NOTE: SOIL BEARING PRESSURE IS TO BE FIELD VERIFIED BY A QUALIFIED SOILS ENGINEER PRIOR TO CONSTRUCTION

FOUNDATIONS AND EARTHWORK

- ELEVATIONS (XXX'-X") NOTED ON FOUNDATION PLANS ARE TO TOP OF FOOTING.
- FOOTINGS SHALL BEAR ON ORIGINAL, UNDISTURBED SOIL OR COMPACTED FILL.
- PROVIDE A MINIMUM OF 3 INCHES CONCRETE PROTECTION AROUND ALL STRUCTURAL STEEL BELOW SLAB ON GRADE.
- ADEQUATELY SUPPORT ALL FOOTING TOP REINFORCEMENT USING STEEL SUPPORTS FROM GRADE BELOW.
- BACKFILL EXTERIOR FOUNDATION WALLS WITH A FREE DRAINING GRANULAR MATERIAL.
- KEEP EXCAVATIONS DRY AND PROTECTED FROM FROST AT ALL TIMES DURING THE FOUNDATION CONSTRUCTION.
- WHEN EXCAVATING OR GRADING ADJACENT TO EXISTING STRUCTURES OR EXISTING SITE IMPROVEMENTS EXERCISE EXTREME CARE TO AVOID DISPLACING, DAMAGING OR UNDERMINING FOUNDATIONS, WALLS, SLABS, UTILITIES, ETC.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN, INSTALLATION AND PERFORMANCE OF ALL Dewatering, SOIL RETENTION, PROTECTION AND TEMPORARY BRACING SYSTEMS.
- DO NOT EXCAVATE BELOW THE BEARING ELEVATION OF EXISTING FOOTINGS OR COMPLETED NEW FOOTINGS UNLESS THE LIMIT OF EXCAVATION IS BEYOND A LINE WITH 2 : 1 SLOPE (2 HORIZONTAL : 1 VERTICAL) FROM THE BOTTOM EDGE OF THE FOOTING.
- ALL EXCAVATIONS FOR BUILDING FOUNDATIONS AND SLABS-ON-GRADE SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER TO VERIFY THAT THE SOILS ENCOUNTERED MEET FOUNDATION DESIGN ASSUMPTIONS. IF SOIL BELOW FOOTINGS AND SLABS IS DETERMINED TO BE UNACCEPTABLE FOR DESIGN BEARING PRESSURE, NOTIFY THE ARCHITECT BEFORE CONTINUING WITH FOUNDATION CONSTRUCTION. ALL IMPROVEMENTS REQUIRED MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.
- DO NOT EMBED BELOW GRADE PIPING AND CONDUIT WITHIN FOOTINGS. DO NOT PASS BELOW GRADE PIPING AND CONDUIT VERTICALLY OR HORIZONTALLY THROUGH FOOTINGS.
- DO NOT PLACE PIPING AND CONDUIT BELOW FOOTINGS UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.

- CONCRETE (CAST-IN PLACE NON-PRESTRESSED)**
- CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER:
CONCRETE POURED ON EARTH OR GROUND 3 IN
CONCRETE EXPOSED TO EARTH OR WEATHER
#6 THROUGH #18 BARS 2 IN
#5 BAR, #31 OR D31 WIRE AND SMALLER 1 1/2 IN
 - PLACE EACH LAYER OF STEEL AS CLOSE TO EACH FACE AS POSSIBLE, MEETING MINIMUM COVER REQUIRED ABOVE.
 - CONDUITS, PIPES, DUCTS OR FITTINGS SHALL NOT BE EMBEDDED WITHIN OR PENETRATE THROUGH CONCRETE COLUMNS, BEAMS, JOISTS, SLABS OR WALLS UNLESS THEY ARE SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER.
 - WHEN AN EMBEDDED ITEM OR PENETRATION IS APPROVED BY THE STRUCTURAL ENGINEER, THE FOLLOWING CRITERIA SHALL BE MET AS A MINIMUM:
A. PIPE OR CONDUIT EMBEDDED WITHIN CONCRETE SLABS AND WALLS SHALL NOT BE LARGER IN OUTSIDE DIAMETER AT ITS WIDEST POINT (OR FITTING) THAN 1/3 THE THICKNESS OF THE SLAB OR WALL, AND SHALL NOT DISPLACE REINFORCING.
B. PLACE SLEEVES, CONDUITS, PIPES OR DUCTS WHICH PENETRATE THROUGH CONCRETE SLABS AND WALLS SO THAT THEY ARE NOT CLOSER THAN THREE (3) DIAMETERS ON CENTER AND DO NOT DISPLACE REINFORCING, UNLESS OTHERWISE NOTED IN THE DRAWINGS. DETERMINE MINIMUM SPACING OF SLEEVES, CONDUITS, PIPES OR DUCTS OF DIFFERENT DIAMETERS USING THE LARGER DIAMETER. WHEN IT IS NOT PRACTICAL TO SPACE PENETRATIONS AS NOTED, CONSULT THE ARCHITECT BEFORE CONSTRUCTION OF THE SLAB OR WALL TO PROVIDE APPROPRIATE DESIGN MEASURES.
C. DO NOT EMBED CONDUITS AND PIPES OF ALUMINUM IN STRUCTURAL CONCRETE.
 - DO NOT CUT OR PLACE HOLES WHICH ARE NOT SPECIFICALLY NOTED OR DETAILED ON THE STRUCTURAL DRAWINGS IN CONCRETE SLABS, BEAMS, JOISTS, COLUMNS, OR WALLS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
 - SPlice BARS PER DETAILS WHERE PROVIDED. BARS SHALL BE CLASS "B" LAP SPliced IN LONGEST CONVENIENT LENGTHS. CONTACT SPlice BARS OR SPACE A MINIMUM DISTANCE APART PER CRSI "REINFORCEMENT ANCHORAGES AND SPICES", AND A MAXIMUM DISTANCE APART OF THE LESSER OF 1/5 THE LAP LENGTH OR 6 INCHES.
 - CLEAR SPACING BETWEEN REBARS (UNLESS SHOWN TO BE CONTACT LAP SPliced) SHALL BE A MINIMUM OF 1-1/2 BAR DIAMETER, 1-1/2", OR 1-1/3 TIMES THE MAXIMUM AGGREGATE SIZE, WHICHEVER IS GREATER.
 - EMBEDMENT LENGTHS, COMPRESSION SPlice LENGTHS AND LAP LENGTHS FOR TENSION SPICES CLASS "A" AND "B" SHALL CONFORM TO THOSE OF ACI-318 CURRENT EDITION.
 - ALL HOOKS NOT NOTED SHALL BE ACI STANDARD HOOKS.
 - TACK WELDING IS NOT PERMITTED ON ASTM A615 GRADE 40 OR 60 STEEL.
 - CONTRACTOR SHALL NOTIFY THE ARCHITECT AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE TO FACILITATE ON-SITE OBSERVATION OF REINFORCING.
 - SET ANCHOR RODS AND FINISH CONCRETE BEARING SURFACE FOR COLUMNS TO THE FOLLOWING TOLERANCES:
A. ELEVATION OF CONCRETE SURFACE PLUS OR MINUS 3/8".
B. ELEVATION TOP OF ANCHOR BOLTS PLUS 1" TO MINUS 3/8".
C. OUT OF POSITION OF ANCHOR BOLTS PLUS OR MINUS 1/8".
 - PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS, UNLESS DETAILED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
 - REINFORCEMENT DESIGNATED AS "CONTINUOUS" MAY BE SPliced USING CLASS B LAP SPICES. PROVIDE STANDARD ACI HOOK ENDS FOR TOP AND BOTTOM BARS AT DISCONTINUOUS ENDS OF ALL GRADE BEAMS AND FOR TOP BARS AT ENDS OF ELEVATED SLABS.

GENERAL SHEET NOTES



Stamps & Approvals
Project Key Plan

SHEET KEYNOTES

301 12" THICK CONCRETE EQUIPMENT PAD W/ #6@12" OC EW TOP & BOT.

0	03/06/26	ISSUED FOR CONSTRUCTION
Rev	Date	Description



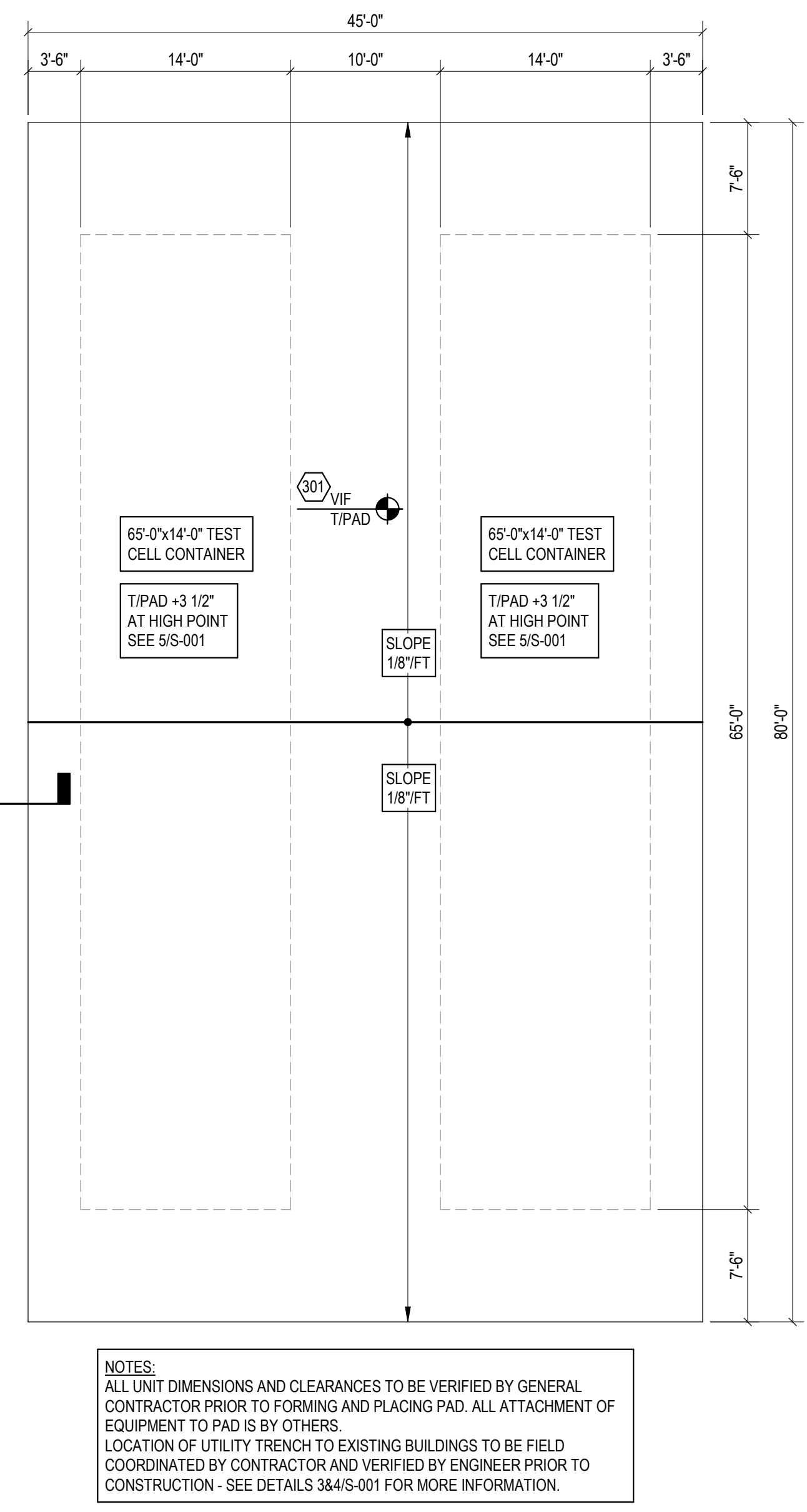
INNIO
Waukesha Gas
Engine Inc.
1101 W St. Paul Ave
Waukesha, WI 53188

ENGINE TEST CELL SUPPORT PAD

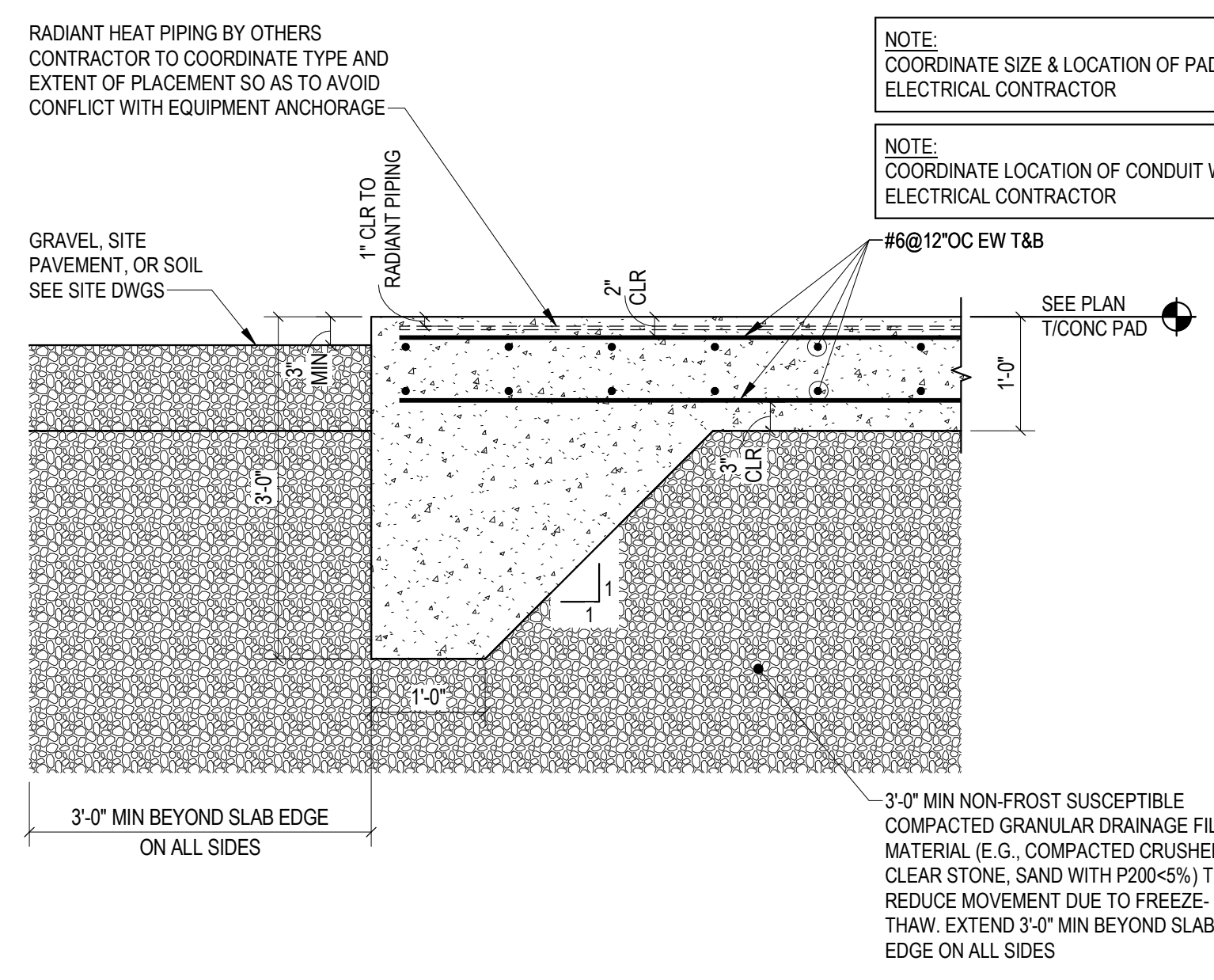
Project Phase CONSTRUCTION DOCUMENTS	
Date 03/06/26	Drawn By FLAD
Project Number 27758-00	Checked By FLAD

STRUCTURAL GENERAL NOTES, PLAN AND DETAILS

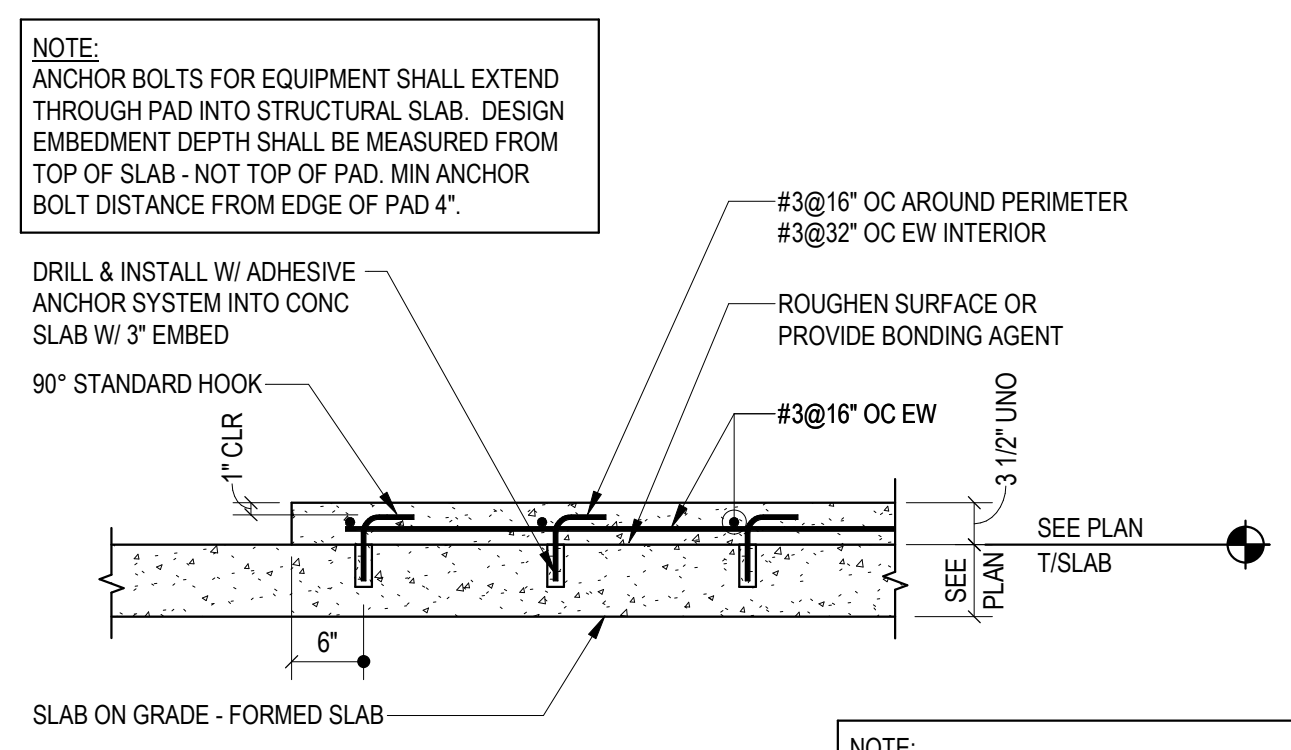
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1
1/8" = 1'-0" S-001



2
3/4" = 1'-0" S-001



5
3/4" = 1'-0" S-001

