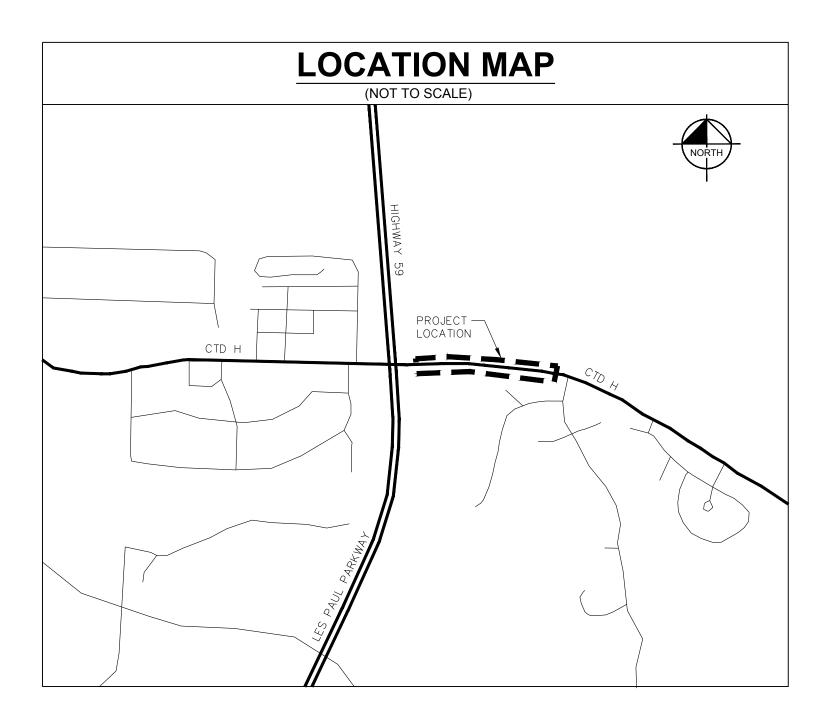
WAUKESHA SENIOR LIVING COUNTY HIGHWAY D ROADWAY IMPROVEMENT PLANS WAUKESHA, WI

PROJECT TEAM

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ROADWAY PLANS



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COUNTY RD. D AND WI-59 ACCESS IMPROVEMENTS WAUKESHA, WI COVER SHEET

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GENERAL SITE WORK NOTES:

- 1. ALL ROADWAY CONSTRUCTION SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS BOOK AND WAUKESHA COUNTY.
- 2. STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED A PART OF THIS CONTRACT.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS BEFORE CONSTRUCTION BEGINS.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING THAT COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF ITS REVISED SCHEDULE(S) IN COMPLIANCE THEREWITH AS DIRECTED BY THE OWNER. THE OWNER AND ENGINEER SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRING COOPERATION WITH OTHERS. THE UTILITY COMPANIES HAVE BEEN CONTACTED IN REGARD TO UTILITIES THEY OWN AND OPERATE WITHIN THE LIMITS FOR THIS PROJECT. ALL KNOWN DATA FROM THESE AGENCIES HAS BEEN INCORPORATED INTO THE PLANS. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES AND THEIR EXACT LOCATIONS, WHETHER CONTAINED IN THE DATA SUBMITTED BY THESE AGENCIES OR NOT, AND TO SAFELY SCHEDULE ALL UTILITY RELOCATIONS. FOR ADDITIONAL INFORMATION, THE AGENCIES LISTED ON THE TITLE SHEET MAY BE CONTACTED. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 5. NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION" PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE SURVEYOR'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE SURVEYOR OR ENGINEER BEFORE DOING ANY WORK, OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS, AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- 6. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM. 7. ALL FRAMES AND LIDS FOR STORM AND SANITARY SEWERS, VALVE VAULT COVERS, FIRE HYDRANTS, AND B-BOXES ARE TO BE ADJUSTED TO MEET FINISHED GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE
- SEWER AND WATER CONTRACTOR, AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE VILLAGE UPON FINAL INSPECTION OF THE PROJECT
- 8. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR LENGTH SPECIFIED IN THE GENERAL CONDITIONS FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD.
- 9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB PER OSHA REGULATIONS.
- 10. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES, AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITION, AND IN ACCORDANCE WITH LOCAL MUNICIPAL CODES. A TRAFFIC CONTROL PERMIT IS REQUIRED FOR WORK ON VILLAGE STREETS.
- 11 THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS EXCESS MATERIALS TRASH OIL AND GREASE RESIDUE MACHINERY TOOLS AND OTHER MISCELLANFOLIS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEANUP, AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
- 12. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN INSPECTED AND APPROVED AS REQUIRED BY THE OWNER AND ENTITY THAT HAS JURISDICTION OVER THE WORK. 13. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT, AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE
- ORIGINAL CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A PAY ITEM IS LISTED ON THE BID LIST. 14. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
- 15. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.
- ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 16. THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY TRENCH SHALL BE PROVIDED BY THE CONTRACTOR. AND THE COST OF SUCH SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE ITEM. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER.
- 17. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH NPDES STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL AND SHALL BE MAINTAINED BY THE CONTRACTOR AND REMAIN IN PLACE UNTIL THE NOTICE OF TERMINATION HAS BEEN OBTAINED. THE CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO THE EROSION CONTROL TO STAY IN COMPLIANCE WITH THE NPDES PERMIT. THESE ADJUSTMENTS MAY BE MADE TO ACCOMMODATE PHASED CONSTRUCTION AND/OR SPECIFIC SITE CONDITIONS.
- 18. THE CONTRACTOR SHALL PREPARE RECORD DRAWINGS AND MAKE THE NECESSARY SUBMITTALS TO THE ENGINEER. SAID PLANS SHALL INDICATE THE FINAL LOCATION AND LAYOUT OF ALL IMPROVEMENTS, INCLUDING VERIFICATION OF ALL CONCRETE PADS, INVERT, RIM, AND SPOT GRADE ELEVATIONS, AND INCORPORATE ALL FIELD DESIGN CHANGES APPROVED BY THE OWNER.
- 19. THE CONTRACTOR SHALL VIDEOTAPE THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.
- 20. ALL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR. COPIES OF ALL TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 21. THE PAVEMENT SHALL BE KEPT FREE OF MUD AND DEBRIS AT ALL TIMES.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFFSITE OF ANY EXISTING PAVING AND STRUCTURES REMOVED.
- 23. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SURVEY AND TRAFFIC CONTROL PLANS PER WAUKESHA COUNTY AND MUTCD REQUIREMENTS.
- 24. ALL EXISTING TRAFFIC AND STREET SIGNS DISTURBED SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR AND TO WAUKESHA COUNTY STANDARDS.

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS.

2. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIALS AS SHOWN ON THE PLAN. MODIFICATIONS TO THE SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS. ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.

3. ALL EROSION CONTROL MEASURES AS INDICATED ON THE PLANS SHALL BE CONSIDERED MINIMUMS. THE CONTRACTOR SHALL FURNISH AND INSTALL ADDITIONAL MEASURES AS REQUIRED TO COMPLETE THE WORK AND COMPLY WITH APPLICABLE PERMITS, REGULATIONS, AND PROJECT REQUIREMENTS OR AS REQUESTED BY STATE INSPECTORS, MUNICIPAL INSPECTORS, A/E, AND OTHER APPLICABLE AGENCIES. ADDITIONAL EROSION CONTROL MEASURES AS REQUESTED SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.

4. INLET PROTECTION SHALL BE INSTALLED AT ALL INLETS WITHIN THE CONSTRUCTION SITE AS WELL AS AT ANY DOWNSTREAM INLETS THAT MAY BE AFFECTED BY CONSTRUCTION. INSTALL PRIOR TO STARTING ANY WORK ON SITE. IF NEW INLETS ARE INSTALLED PER PROJECT, NEW INLET PROTECTION SHALL BE INSTALLED AT THOSE INLETS. 5. INLET PROTECTION SHALL BE KEPT CLEAN OF DEBRIS ON A DAILY BASIS THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT. INLET PROTECTION SHALL BE REMOVED

ONCE PROJECT HAS ENDED AND SITE HAS STABILIZED PER NPDES GENERAL PERMIT REQUIREMENTS. 6. PAVED SURFACES ADJACENT TO THE CONSTRUCTION SITE SHALL BE SWEPT AND/OR SCRAPED TO REMOVE SOIL, SEDIMENT, DIRT, AND/OR DUST AS NEEDED THROUGHOUT THE DAY AND AT THE END OF EVERY DAY. HE CONTRACTOR SHALL TAKE MEASURES TO PREVENT VEHICLES INVOLVED IN THE CONSTRUCTION PROJECT FROM DISCARDING MUD. DIRT. DEBRIS OR CONSTRUCTION MATERIALS ONTO STREETS, SIDEWALKS, AND PARKWAYS. IF THIS WORK IS NOT COMPLETED WITHIN THIS TIME FRAME, 7. CONTRACTOR SHALL INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF ALL STOCKPILES.

8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DUST CONTROL ON THE PROJECT THROUGHOUT EACH DAY. ALL DAMAGE RESULTING FROM DUST SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PREVENT EXCESSIVE DUST FROM LEAVING THE CONSTRUCTION SITE IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.

9. ALL SLOPES EXCEEDING 4:1 SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING AND ALL DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE B EROSION MATTING.

10. CUT AND FILL SLOPES SHALL BE NO GREATER THAN 4:1

11. ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN SEVEN (7) DAYS SHALL BE STABILIZED WITH TEMPORARY STABILIZATION METHODS SUCH AS TEMPORARY SEEDING, SOIL TREATMENT, EROSION MATTING, OR MULCH.

12. THE MINIMUM SEEDING RATE FOR TEMPORARY SEEDING IN TURF AREAS IS 5 POUNDS GRASS SEED MIX PER 1000 SQUARE FEET USED AND COMBINED WITH ANNUAL RYEGRASS AT A RATE OF 11/2 POUNDS PER 1000 SQUARE FEET, UNLESS OTHERWISE SPECIFIED.

14. ALL DISTURBED AREAS TO BE SEEDED SHALL RECEIVE A MINIMUM OF 6 INCHES OF TOPSOIL, FERTILIZER, SEED AND MULCH.

13. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES.

15. SILT FENCING SHALL NOT BE INSTALLED WITHIN THE CRITICAL ROOT ZONE OR WITHIN THE DRIP LINE OF ANY TREES OR SHRUBS TO BE PROTECTED. USE SILT SOCKS WHICH DO NOT REQUIRE EXCAVATION AND CUTTING ROOTS.

16. INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK AND AFTER EACH ½ INCH RAINFALL) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.

17. CONTRACTOR SHALL KEEP RECORDS ON SITE OF ALL EROSION CONTROL INSPECTIONS AND AVAILABLE FOR REVIEW BY INSPECTORS WHEN REQUESTED. 18. CONTRACTOR SHALL REMOVE SEDIMENT FROM THE STORM FACILITIES IMPACTED BY CONSTRUCTION INCLUDING STRUCTURES OUTSIDE OF THE CONSTRUCTION SITE AFTER COMPLETION OF ALL SITE CONSTRUCTION AND PRIOR TO SUBSTANTIAL COMPLETION.

19. CONTRACTOR SHALL FILE A NOTICE OF TERMINATION UPON VEGETATIVE STABILIZATION IN ACCORDANCE WITH WONR REQUIREMENTS.

EARTHWORK NOTES:

1. <u>GENERAL</u> A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE.

B. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRISE HIMSELF OF ALL SITE CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED.

C. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE ACCOUNTED FOR TO DETERMINE SUBGRADE ELEVATIONS. D. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED AND APPROVED PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC., TO PROTECT ADJACENT PROPERTY, WETLANDS, ETC., SHALL OCCUR BEFORE GRADING BEGINS.

2. TOPSOIL EXCAVATION INCLUDES: A. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS B. PLACEMENT OF EXCAVATED MATERIAL IN OWNER-DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY

EROSION CONTROL MEASURES FOR STOCKPILE. C. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED

IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE AT CONTRACTOR'S EXPENSE. D. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING SIX (6) INCHES OF TOPSOIL DIRECTLY OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER.

3. EARTH EXCAVATION INCLUDES: A. EXCAVATION OF SUBSURFACE MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.01 FEET OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING OPERATION. B. PLACEMENT OF SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF .01 FEET. THE FILL MATERIALS SHALL BE PLACED PER THE GEOTECHNICAL RECOMMENDATIONS

C. COMPACTION OF SUITABLE MATERIALS SHALL BE TO AT LEAST 95% OF THE MODIFIED PROCTOR DRY DENSITY PER GEOTECHNICAL RECOMMENDATIONS.

4. MISCELLANEOUS. THE CONTRACTOR SHALL: A. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED BY THE GEOTECHNICAL RECOMMENDATIONS FOR ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS. B. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

6. TESTING AND FINAL ACCEPTANCE: A. THE CONTRACTOR SHALL PROOF ROLL THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL PER THE RECOMMENDATIONS OF THE GEOTECHNICAL

B. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE CORRECTED AND APPROVED BY THE GEOTECHNICAL

UTILITY NOTES

1. ALL EXISTING UTILITY LINES TO REMAIN SHALL BE FULLY PROTECTED AND SUPPORTED/SHORED DURING CONSTRUCTION TO KEEP LINES IN SERVICE AND TO PREVENT DAMAGE. WHERE NEW UNDERGROUND UTILITIES ARE TO BE INSTALLED BELOW EXISTING UTILITIES, SUPPORT EXISTING LINES IN PLACE, PROVIDING RESTRICTION OF BOTH HORIZONTAL AND VERTICAL MOVEMENT OF THE PIPING. AFTER NEW UTILITIES HAVE BEEN INSTALLED, EXISTING UTILITIES SHALL BE BACKFILLED IN SAME MANNER AS THAT SPECIFIED FOR NEW UTILITIES. PROVIDE FLOWABLE CONCRETE FILL DIRECTLY BENEATH EXISTING UTILITIES WHERE SPECIFIED COMPACTION REQUIREMENTS CAN NOT BE ACHIEVED.

2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, MUNICIPALITY, AND THE APPROPRIATE UTILITY COMPANY TO REPORT ANY DAMAGE TO AN EXISTING UTILITY OR STRUCTURE. ALL DAMAGED EXISTING UTILITIES OR STRUCTURES MUST BE REPAIRED THE SAME DAY THAT THE DAMAGE OCCURRED. IF APPROPRIATE MATERIALS FOR PERMANENT REPAIR ARE NOT AVAILABLE CONTRACTOR SHALL PROVIDE WHATEVER MATERIALS NECESSARY TO TEMPORARILY RESTORE UTILITY TO SERVICE AND SCHEDULE SHUT DOWN TO MAKE PERMANENT REPAIRS. THE LOCAL MUNICIPALITY AND UTILITY OWNER RESERVES THE RIGHT TO MAKE REPAIRS TO DAMAGED UTILITIES IF THE CONTRACTOR DOES NOT PROVIDE TIMELY REPAIRS. ALL COSTS FOR THESE REPAIRS WILL BE BILLED TO THE CONTRACTOR. REPAIR WORK TO BE IN ACCORDANCE WITH THESE SPECIFICATIONS AND/OR UTILITY OWNER'S REQUIREMENTS.

3. THE CONTRACTOR SHALL ADHERE TO ALL O.S.H.A. REQUIREMENTS.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SOIL RETENTION ON BOTH SIDES OF UTILITY EXCAVATION AND AS REQUIRED AROUND UTILITY STRUCTURE EXCAVATIONS TO LIMIT THE WIDTH OF THE EXCAVATION. ALL SOIL RETENTION SHALL BE REMOVED AFTER COMPLETION OF UTILITY AND STRUCTURE INSTALLATION. 5. DESIGN OF SUPPORT SYSTEMS, SHIELD SYSTEMS, AND OTHER PROTECTION SYSTEMS FOR SOIL RETENTION SHALL BE SELECTED, DESIGNED, FURNISHED, INSTALLED, AND

MAINTAINED BY THE CONTRACTOR. IF NECESSARY CONTRACTOR SHALL DESIGN ANY SHEETING, H PILE AND LAGGING SYSTEM, ETC. FOR SOIL RETENTION. SUBMIT DESIGN STAMPED BY A REGISTERED ENGINEER, TO BE APPROVED BY THE LOCAL MUNICIPALITY HAVING JURISDICTION.

6. CAUTION SHALL BE CARRIED OUT WHILE WORKING AROUND ELECTRICAL AND TELEPHONE/COMMUNICATIONS DUCT BANKS, AND OTHER UTILITIES. THE CONTRACTOR SHALL INSTALL ALL SHORING REQUIRED TO PREVENT MOVEMENT OF THE UTILITIES AND "CAVE-INS" OF THE SAND BED.

7. CONTRACTOR SHALL HAVE ADEQUATE MATERIALS ON-SITE TO CONTINUE PROGRESS OF UTILITY AND PAVING INSTALLATION IN A CONTINUOUS FASHION. CONTRACTOR SHALL PROVIDE PIPING, SUFFICIENT ELBOWS AND FITTINGS AS NECESSARY TO MAKE ADJUSTMENTS FOR FIELD CONDITIONS.

8. CONTRACTOR SHALL PROVIDE PROTECTION AND USE APPROPRIATE LOADINGS WHEN STORING MATERIALS AND EQUIPMENT ON, OR MOVING EQUIPMENT OVER UNDERGROUND UTILITIES TO INSURE UTILITIES ARE NOT DAMAGED.

9. CONTRACTOR TO INSTALL 12 GAUGE TRACER WIRE ALONG THE LENGTH OF NON-METALLIC WATER PIPE. TEST AFTER INSTALLED.

10. CONTRACTOR TO INSTALL 12 GAUGE GREEN TRACER WIRE ALONG LENGTH OF NON-METALLIC SANITARY PIPE. TEST AFTER INSTALLED. AT EACH MANHOLE, RUN THE TRACER WIRE UP THE SIDE OF THE MANHOLE AND BORE 1" DIAMETER HOLE BELOW THE BASE OF THE CONE. RUN TRACER WIRE THROUGH HOLE AND CONNECT TO INSIDE OF MANHOLE WITH STAINLESS STEEL FASTENER. FILL HOLE WITH CONCRETE.

11. CONTRACTOR TO INSTALL 12 GAUGE BROWN TRACER WIRE ALONG LENGTH OF NON-METALLIC STORM PIPE. TEST AFTER INSTALLED. AT EACH MANHOLE, RUN THE TRACER WIRE UP THE SIDE OF THE MANHOLE AND BORE 2" DIAMETER HOLE BELOW THE BASE OF THE CONE. RUN TRACER WIRE THROUGH HOLE AND CONNECT TO INSIDE OF MANHOLE WITH STAINLESS STEEL FASTENER. FILL HOLE WITH CONCRETE.

PAVING NOTES

GENERAL

A. PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION, AND COMPACTION; PLACEMENT OF SUBBASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FORMING, FINISHING, AND CURING CONCRETE PAVEMENT, CURBS, AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK. B. COMPACTION REQUIREMENTS PER GEOTECHNICAL REQUIREMENTS AND LOCAL MUNICIPALITIES HAVING JURISDICTION OVER THE WORK.

C. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING WARNING DEVICES, AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUCTD), LATEST EDITION, AND IN ACCORDANCE WITH WAUKESHA COUNTY CODE. 2. SUBGRADE PREPARATION

A. EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL SATISFY THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS, UNLESS THE CONTRACTOR ADVISES THE ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION. B. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF-ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER FOR UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. IF

UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE CORRECTED. THIS MAY INCLUDE ONE OR MORE OF THE FOLLOWING METHODS: (1) SCARIFY, DISC, AND AERATE. (2) REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL

(3) REMOVE AND REPLACE WITH GRANULAR MATERIAL. (4) USE OF GEOTEXTILE FABRIC.

C. PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE PAVEMENT AREA SHALL BE FINE-GRADED TO WITHIN 0.04 FEET (1/2 INCH) OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF THE CURB, SO AS TO ENSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED. D. PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.

3. CONCRETE WORK

MORE RESTRICTIVE.

B. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. SAWED OR FORMED CONTRACTION JOINTS SHALL BE PROVIDED AT NO GREATER THAN TEN (10) FOOT INTERVALS BETWEEN EXPANSION JOINTS. NO HONEY-COMBING OF THE CURB AND GUTTER WILL BE ACCEPTED. C. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PEDESTRIAN WALKS INTERSECT CURB LINES AND OTHER LOCATIONS, AS DIRECTED, FOR THE PURPOSE OF PROVIDING ACCESSIBILITY. D. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE.

E. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT 5-FOOT INTERVALS AND 1/2-INCH PRE-MOLDED FIBER EXPANSION JOINTS AT 50-FOOT INTERVALS AND ADJACENT TO CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, ETC. E CONCRETE CURING AND PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR

G. THE COST OF AGGREGATE BASE OR SUBBASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM.

4. FLEXIBLE PAVEMENT

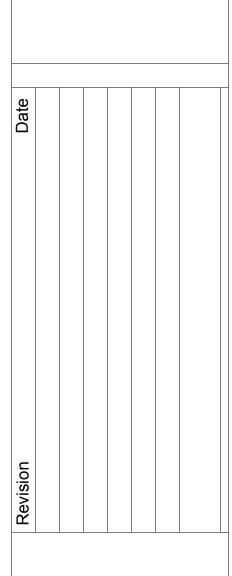
A. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE BINDER COURSE SHALL BE CLEANED AND TACK-COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE BINDER, BASE, OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND STAFF NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE AT A RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS PER DOT AND/OR LOCAL MUNICIPAL SPECIFICATIONS. 5. TESTING AND FINAL ACCEPTANCE

A. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE GEOTECHINCAL ENGINEER. B. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.

A. ALL EXTERIOR CONCRETE SHALL MEET LOCAL MUNICIPAL STATE, OR OWNER REQUIREMENTS PER THE JURISDICTION HAVING AUTHORITY OVER THE WORK. IF NO SPECIFICATIONS ARE AVAILABLE, THE STATE DEPARTMENT OF TRANSPORTATION REQUIREMENTS SHALL PREVAIL. IF REQUIREMENTS CONFLICT WITH EACH OTHER, THE AUTHORITY HAVING JURISDICTION OVER THE WORK SHALL COMPLY, OTHERWISE FOLLOW THE



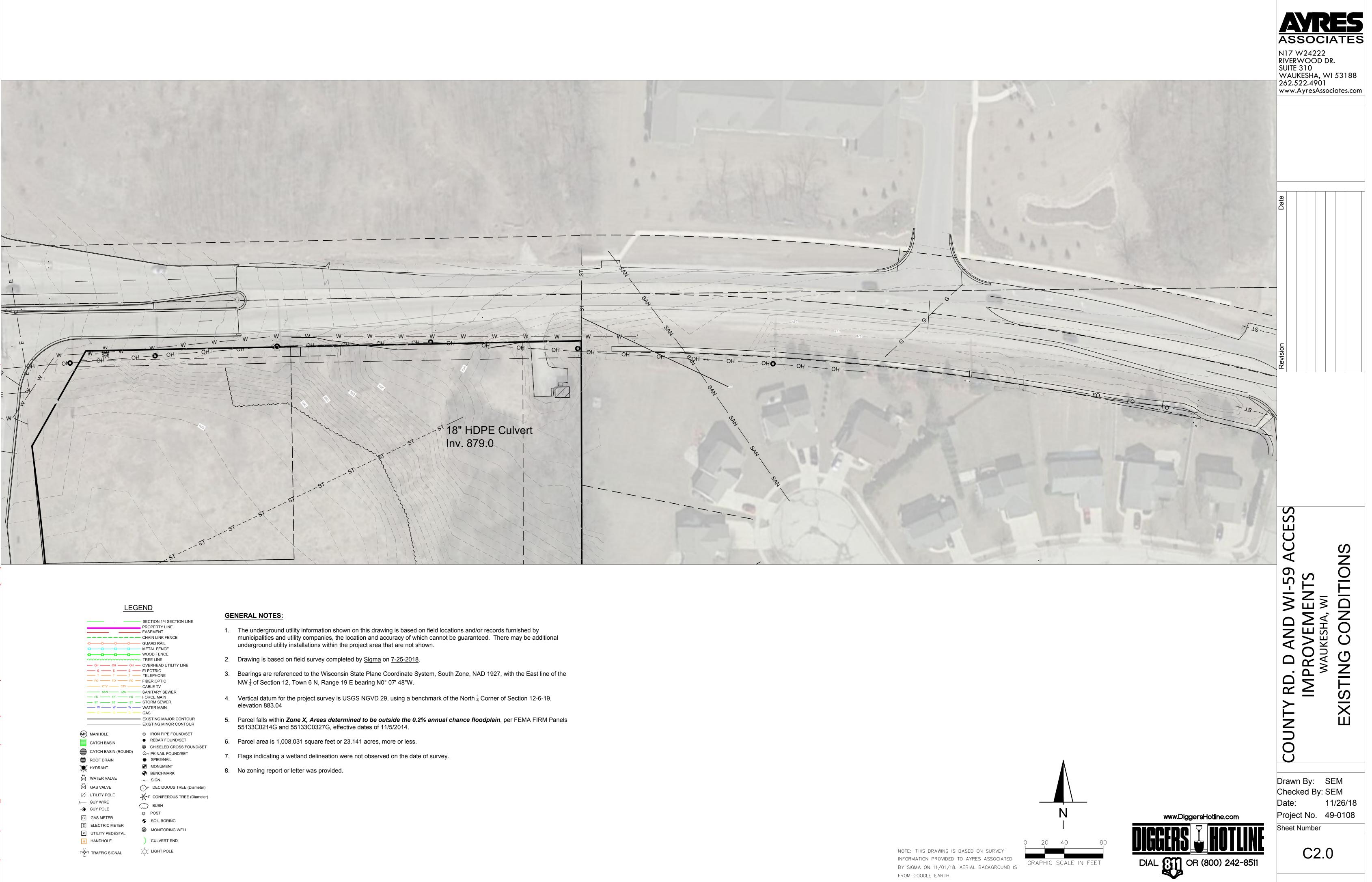
N17 W24222 RIVERWOOD DR. SUITE 310 WAUKESHA, WI 53188 262.522.4901 www.AyresAssociates.com



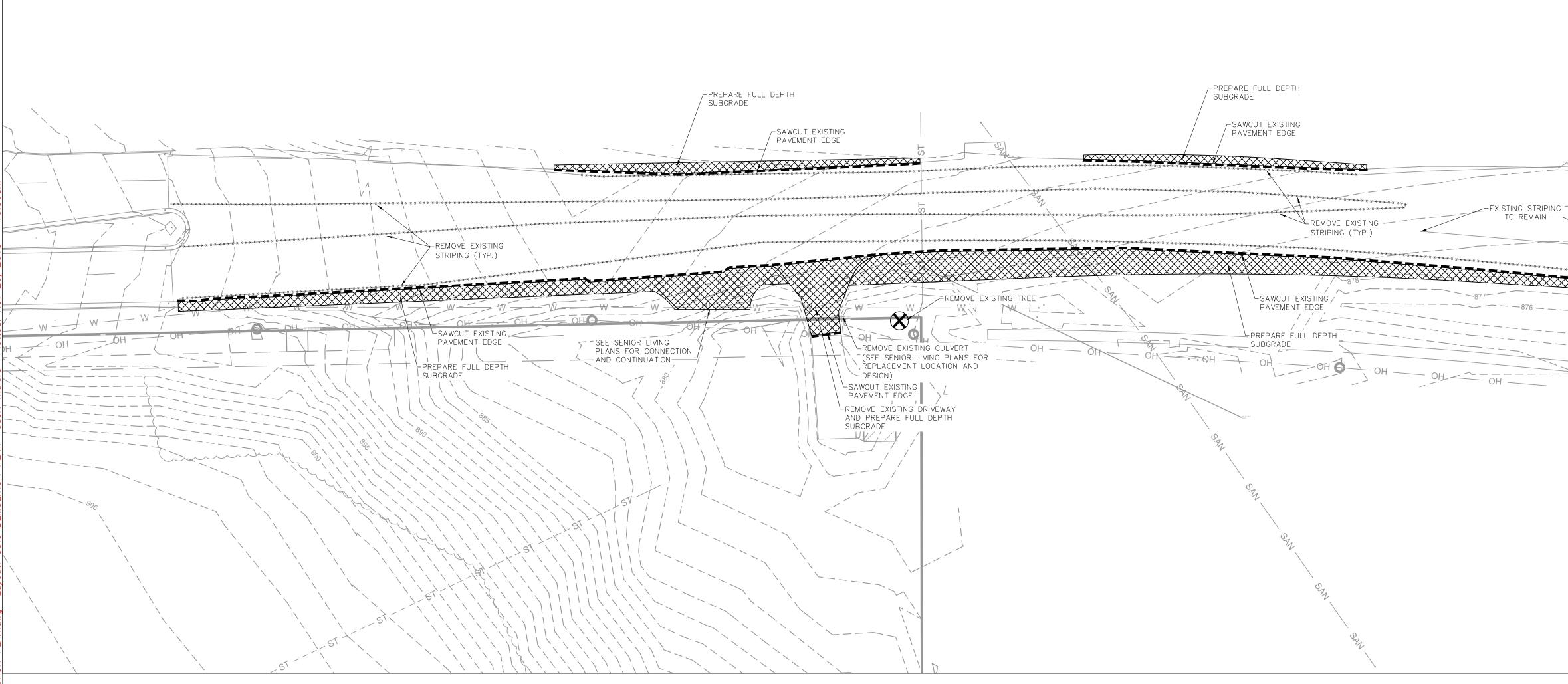
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Drawn By: SEM Checked By: SEM 11/26/18 Date: Project No. 49-0108 Sheet Number

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	CATCH BASIN	 REBAR FOUND/SET
	CATCH BASIN (ROUND)	⊗ CHISELED CROSS FOUND/SE
		Opk PK NAIL FOUND/SET ● SPIKE/NAIL
$\overline{\mathbf{a}}$	ROOF DRAIN HYDRANT	
^y ₩V	HIDRANI	BENCHMARK
Ň	WATER VALVE	SIGN
\aleph	GAS VALVE	€ B" DECIDUOUS TREE (Diameter)
\sim	UTILITY POLE	*** CONIFEROUS TREE (Diameter
	GUY WIRE	BUSH
_	GUY POLE	⊚ POST
	GAS METER	SOIL BORING
E	ELECTRIC METER	MONITORING WELL
	HANDHOLE) CULVERT END
-	¹ TRAFFIC SIGNAL	



DEMOLITION LEGEND

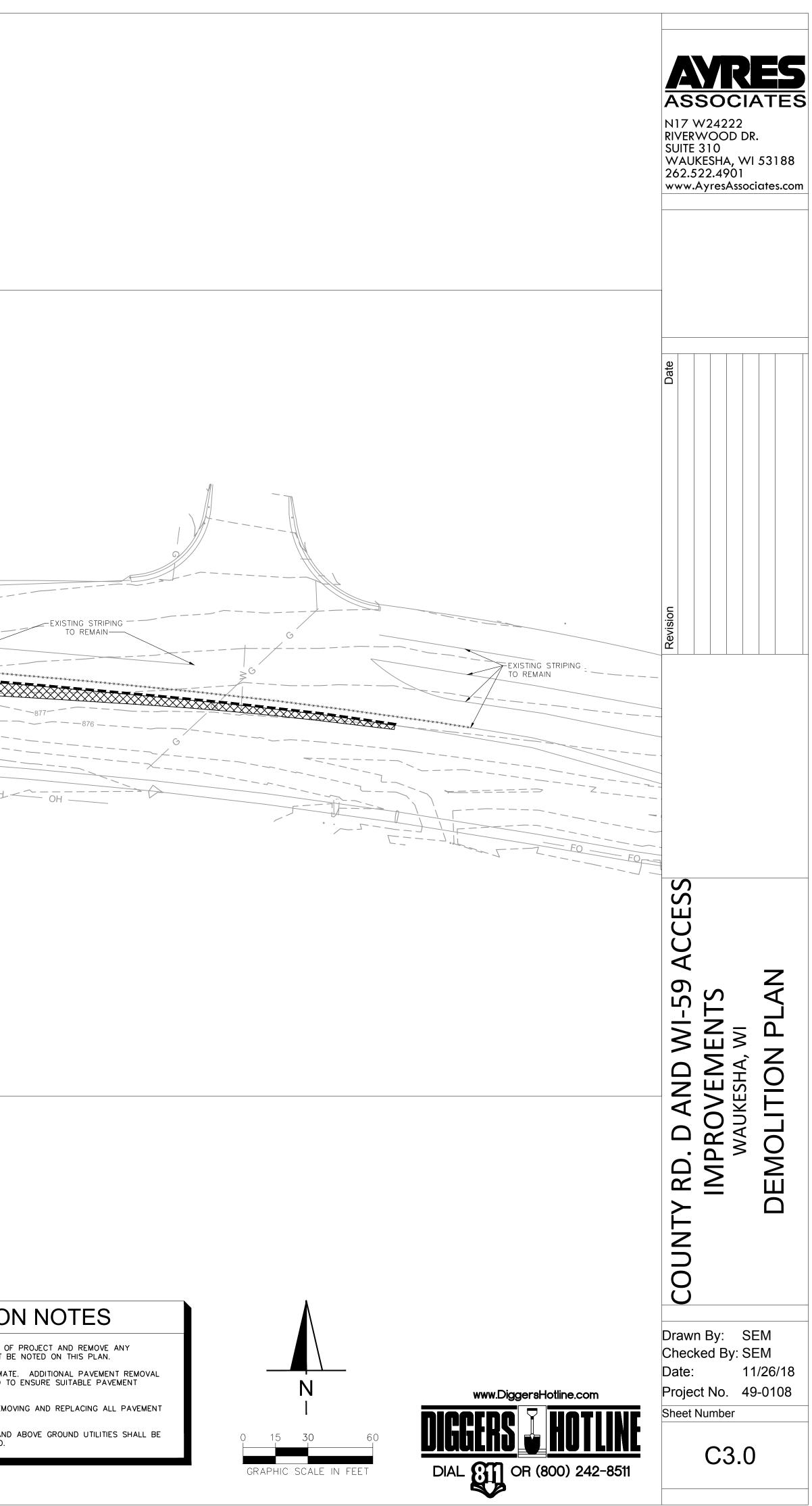
STRIPING TO BE REMOVED

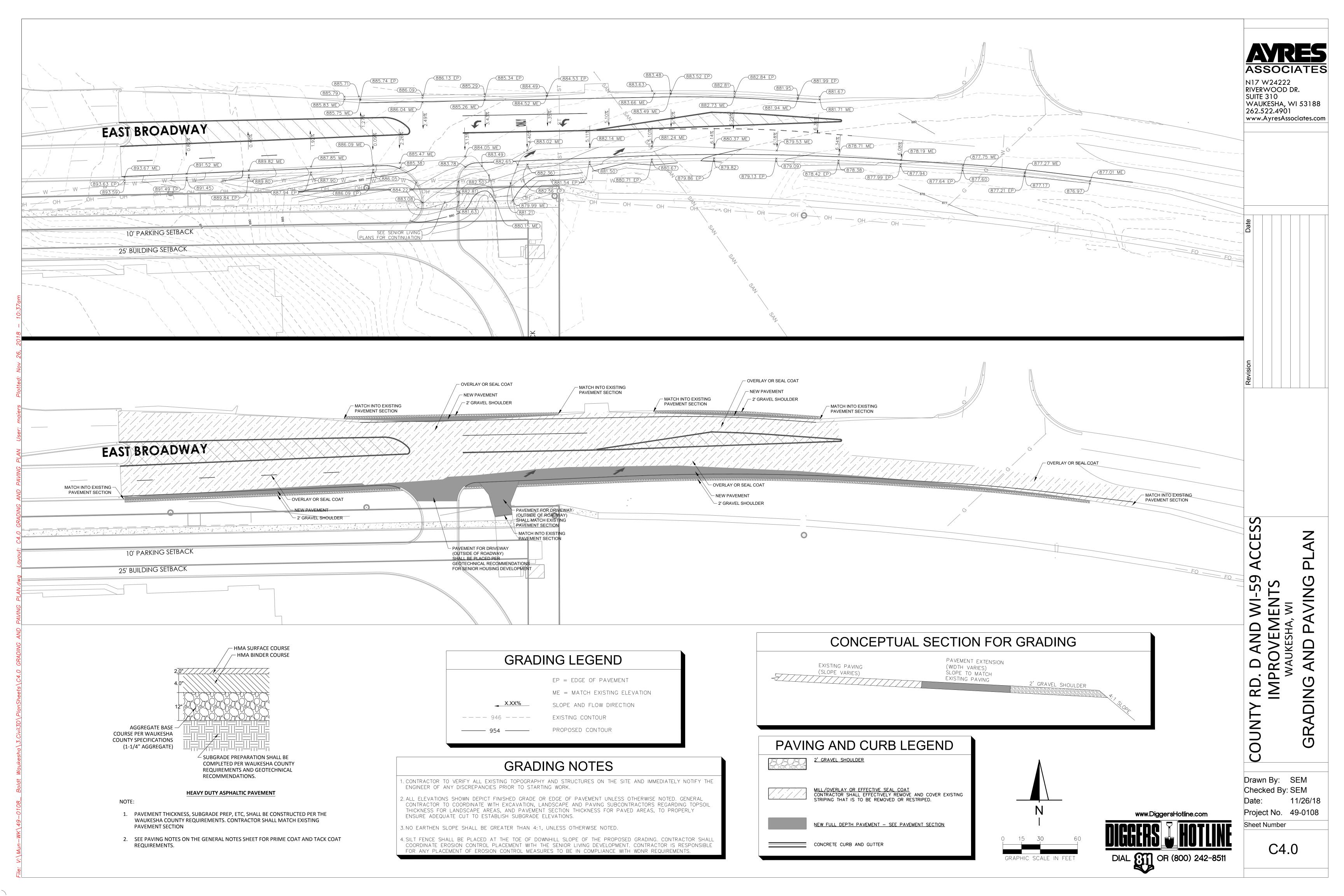
SAWCUT EDGE. PREPARE EDGE PER WAUKESHA COUNTY STANDARDS

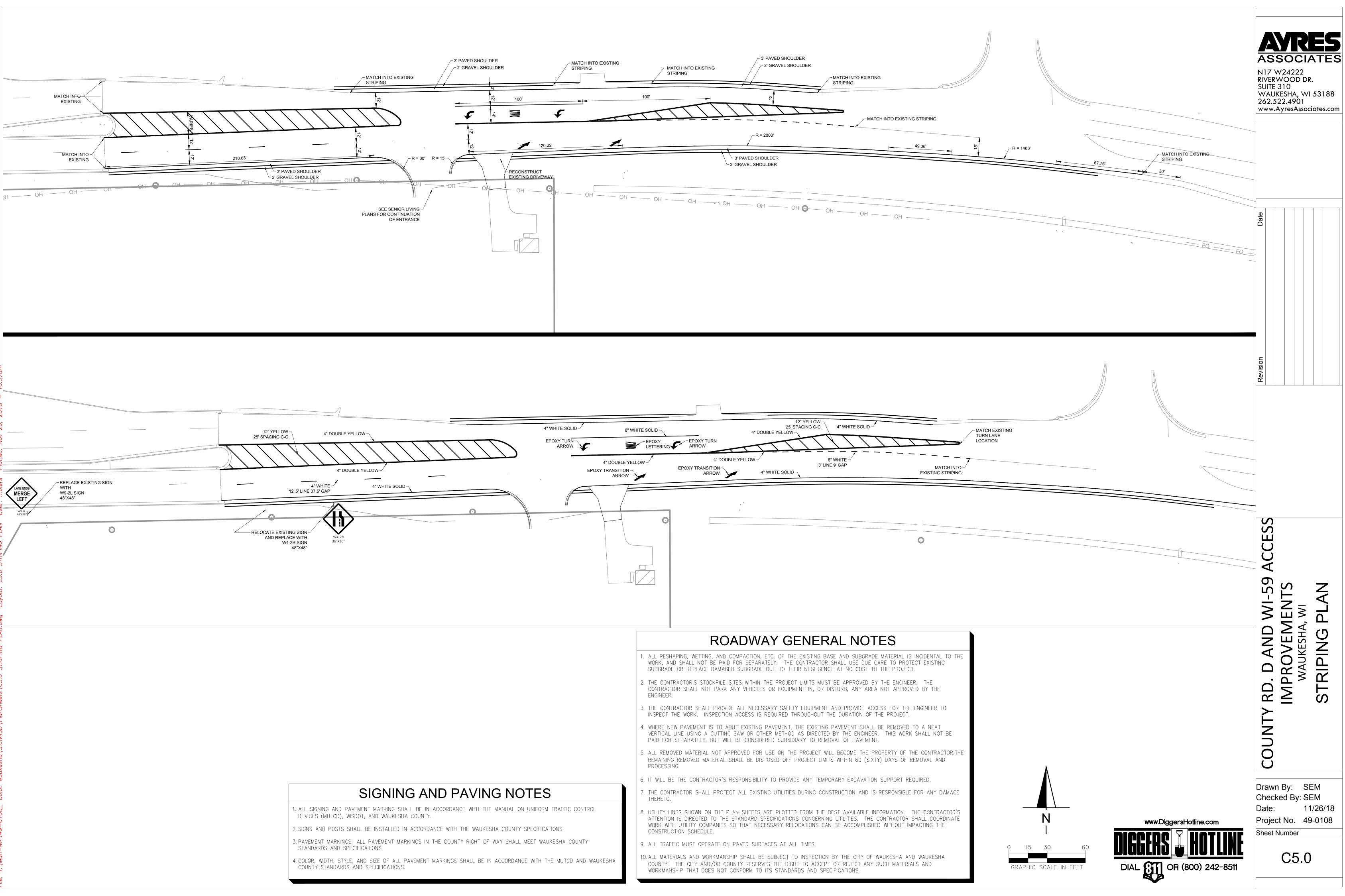
FULL DEPTH PREPARATION AREA. CONTRACTOR TO REMOVE EXISTING PAVEMENT AND TOPSOIL. PREPARE SUBGRADE PER WAUKESHA COUNTY STANDARDS FOR PAVING

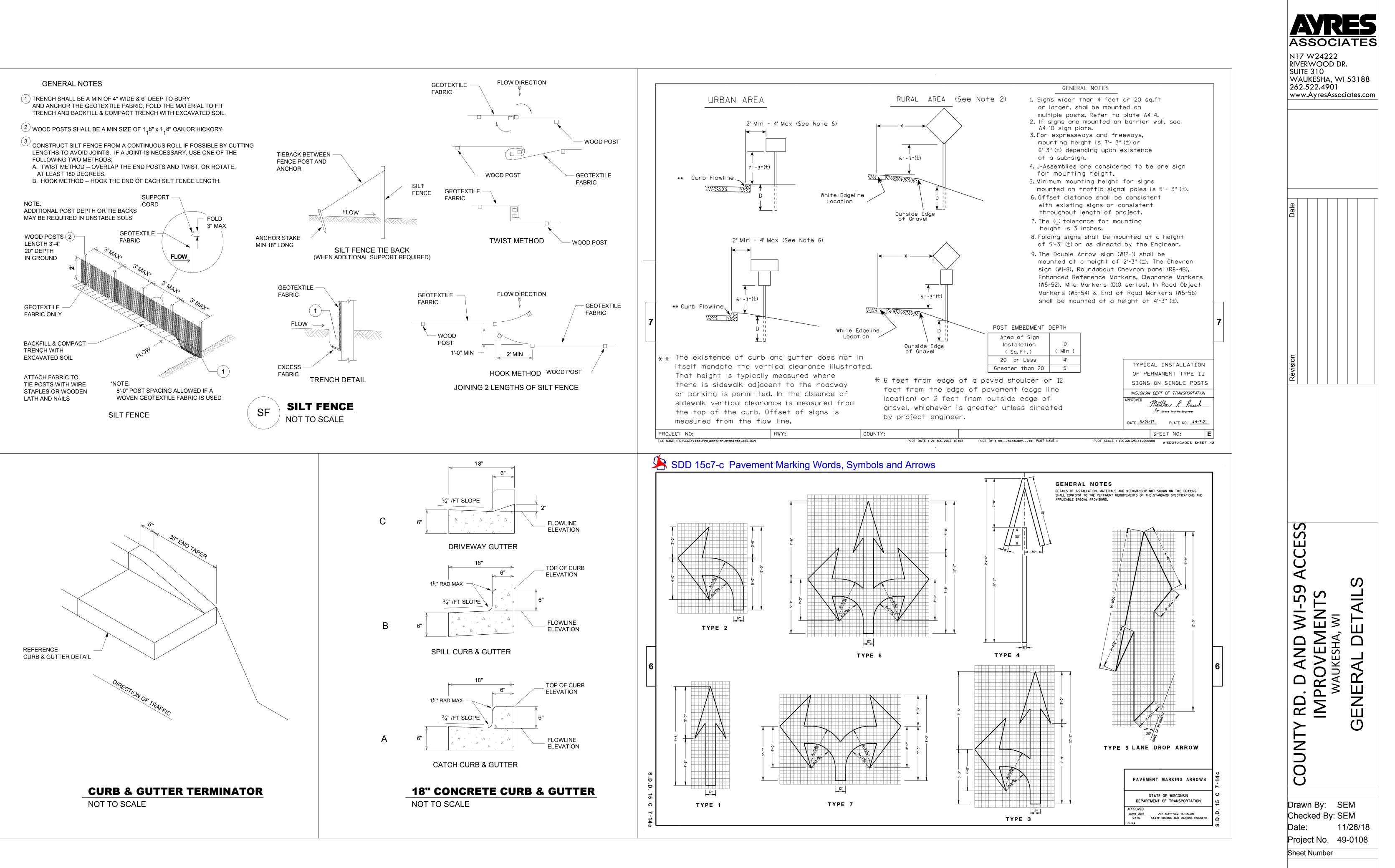
DEMOLITION NOTES

- 1. CONTRACTOR TO UNDERSTAND SCOPE OF PROJECT AND REMOVE ANY MISCELLANEOUS ITEMS THAT MAY NOT BE NOTED ON THIS PLAN.
- 2. ALL DEMOLITION LIMITS ARE APPROXIMATE. ADDITIONAL PAVEMENT REMOVAL AND REPLACEMENT MAY BE REQUIRED TO ENSURE SUITABLE PAVEMENT MATCHING.
- 3. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ALL PAVEMENT DAMAGED DURING CONSTRUCTION.
- 4. ALL EXISTING TREES, LANDSCAPING, AND ABOVE GROUND UTILITIES SHALL BE PROTECTED UNLESS OTHERWISE NOTED.









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