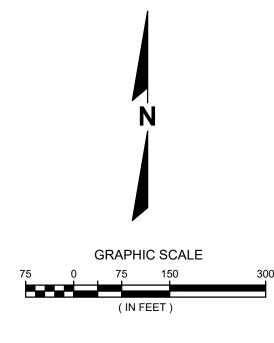
LEGEND

△ BENCHMARK ■ SECTION CORNER • IRON PIPE FOUND O IRON PIPE SET BOLLARD + SOIL BORING/MONITORING WELL/CORE LOCATION FLAGPOLE MAILBOX SIGN -- BILLBOARD ☐ CONTROL BOX 中 TRAFFIC SIGNAL **Y RAILROAD CROSSING SIGNAL** ☐ CABLE PEDESTAL Ø POWER POLE トGUY POLE T GUY WIRE X LIGHT POLE × GROUND OR OTHER SPOT SHOT & HANDICAPPED PARKING © ELECTRIC MANHOLE E ELECTRIC PEDESTAL ☑ ELECTRIC METER TELEPHONE MANHOLE TELEPHONE PEDESTAL FOMARKED FIBER OPTIC ₩ GAS VALVE GAS METER STORM MANHOLE ROUND INLET CATCH BASIN A STORM SEWER END SECTION SANITARY MANHOLE SANITARY CLEANOUT OR SEPTIC VENT **⊗** SANITARY INTERCEPTOR MANHOLE O MISCELLANEOUS MANHOLE ∜ WATER VALVE > HYDRANT © WATER SERVICE CURB STOP ₩ELL ₩ATER SURFACE ♦ WETLANDS FLAG ■ MARSH * CONIFEROUS TREE O DECIDUOUS TREE O SHRUB EDGE OF TREES - سربس - s - SANITARY SEWER -STO-STORM SEWER — w -watermain — G -MARKED GAS MAIN — E −MARKED ELECTRIC — в -BUREAU ELEC. SERV — ⊤ −MARKED TELEPHONE — TV - MARKED CABLE TV LINE — FO-MARKED FIBER OPTIC

VILLAGE OF STURTEVANT RACINE COUNTY, WISCONSIN

2023 NORTH PARK IMPROVEMENTS



DESCRIPTION

COVER SHEET

GENERAL NOTES

REMOVAL PLAN

GRADING PLAN

LANDSCAPE PLAN

LANDSCAPE NOTES AND DETAILS

VILLAGE OF STURTEVANT

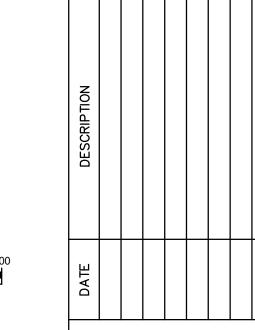
PUBLIC WORKS MANAGER

JACK FEINER

262-886-7202

SITE PLAN

DETAILS



LAGE OF

Wiscons JASON M.
FEUCHT
E-38710
EAST TROY,
WISCONSIN Oct. 23, 2023

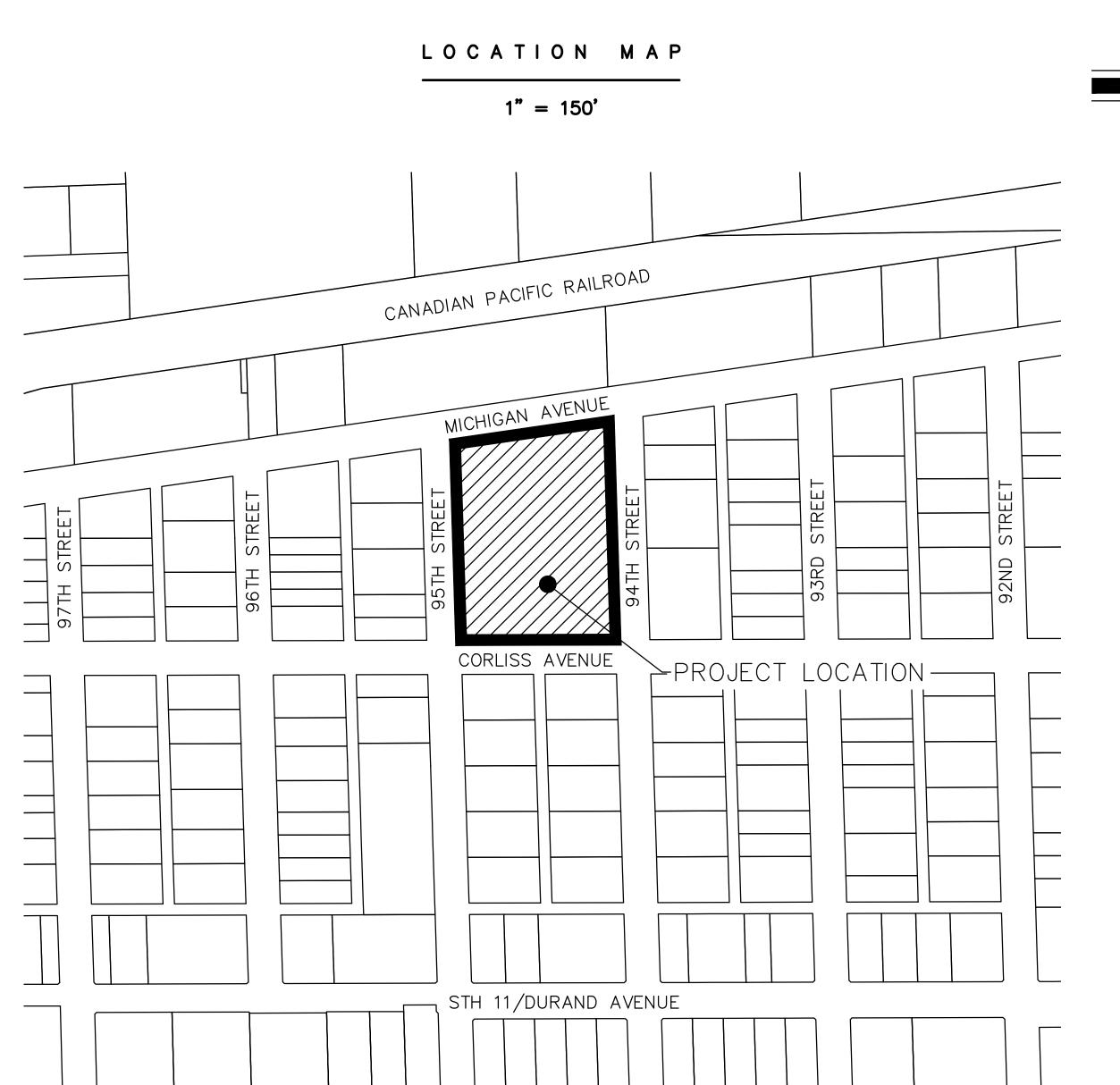
© COPYRIGHT 2023 R.A. Smith, Inc. DATE: 10/23/2023 SCALE: 1"=150'

JOB NO. **1220400**

PROJECT MANAGER: JASON M. FEUCHT, P.E. DESIGNED BY: AEL

CHECKED BY: JMF SHEET NUMBER

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UTILITY CONTACTS:

PLAN INDEX

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OWNER:

05 - 12

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VILLAGE OF STURTEVANT

STURTEVANT, WI 53177

2801 89TH STREET

CHIEF ENGINEER 262-636-9539 CHAD.REGALIA@CITYOFRACINE.ORG

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

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- FM-FORCE MAIN

FIELD DATE MAY 22, 2023 HORIZONTAL DATUM Wisconsin State Plane Coordinate System, South Zone (NAD83/2011). REFERENCE POINTS HUB, WEST SIDE OF 95TH ST. CHISELED "T" IN CURB, EAST SIDE OF 94TH ST.

CHISELED "T" IN CURB, NORTH SIDE OF MICHIGAN AVE.

CHISELED "T" IN CURB, WEST SIDE OF 94TH ST. AT CORLISS AVE. VERTICAL DATUM

STARTING BENCHMARK

NAVD88

Set CP 101 with GPS. Ran level loop through site benchmarks holding elevation of CP101.

SITE BENCHMARKS PT#1000

NW FLANGE BOLT ON HYDRANT WEST SIDE OF 94TH ST. AT CORLISS AVE. **ELEVATION** = 720.85

NW FLANGE BOLT ON HYDRANT NORTH SIDE OF MICHIGAN AVE. AT 95TH ST. **ELEVATION** = 718.04

DIGGERS HOTLINE Locate Ticket #: 2023-19-17006 Prints Ticket #: 2023-19-17009

The above vertical and horizontal reference points were measured on the field date listed hereon for the purpose of locating visible improvements and elevations illustrated on the design survey. The reference points are not intended for construction purposes nor is the perpetuation and/or protection of the reference points ensured. All reference points must be field verified prior to use in construction and/or layout staking.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE VILLAGE OF STURTEVANT STANDARDS, THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION DATED: DECEMBER 22, 2003, w/ ADDENDA NOS. 1 & 2 & THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION; LATEST EDITION, ADDITIONS, AND REVISIONS.
- THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES.
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- CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY CONNECTIONS PRIOR TO CONSTRUCTION
- CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE FOR UTILITY MARKING AND LOCATIONS PRIOR TO CONSTRUCTION
- TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY ENGINEER.
- 3. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT ENGINEER APPROVAL.
- ALL SIGNS AND SIGN POSTS AS WELL AS PLAYGROUND EQUIPMENT AS NOTED REMOVED SHALL BE DELIVERED TO THE VILLAGE OF STURTEVANT.
- O. WHEN THE QUANTITY OF BASE AGGREGATE DENSE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY ENGINEER.
- EXCAVATION BELOW SUBGRADE (EBS), IF DETERMINED BY THE ENGINEER, SHALL BE PAID FOR AS COMMON EXCAVATION. THE LOCATION OF EBS WILL BE DETERMINED BY THE ENGINEER. SUCH EBS IS NOT USED TO BALANCE YARDAGE.

PAVING NOTES:

- ALL DIMENSIONS ARE TO FLANGE OF CURB UNLESS OTHERWISE NOTED.
- ACCESSIBLE ROUTES TO HAVE CROSS SLOPES NO GREATER THAN 2% AND RUNNING SLOPES NO GREATER THAN 5%.

CONCRETE CONSTRUCTION

- EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB & GUTTER ADJACENT TO ASPHALTIC PAVEMENT.
- CONCRETE CURB & GUTTER JOINT SPACING SHALL BE 10 FEET UNLESS OTHERWISE APPROVED BY ENGINEER.

ASPHALT CONSTRUCTION:

- A SAWED JOINT IS REQUIRED WHERE NEW ASPHALTIC CONCRETE SURFACES MEET EXISTING ASPHALTIC CONCRETE SURFACES.
- TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.050 0.070 GALLONS PER SQUARE YARD AND SHALL BE PLACED BETWEEN LAYERS OF ASPHALTIC PAVEMENT, INCIDENTAL TO PAVING ITEM.

EROSION CONTROL NOTES:

- CONTRACTOR MUST CONFORM WITH ANY STATE, FEDERAL, AND LOCAL PERMITS, ORDINANCES AND OR REGULATIONS AND WITH THE CONDITIONS INCLUDED IN THIS PLAN SET. EROSION CONTROL MEASURES SHALL BE INSTALLED, MAINTAINED AND REMOVED IN CONFORMANCE WITH THE MUNICIPALITY'S ORDINANCES AND THE WISCONSIN DNR STORM WATER MANAGEMENT TECHNICAL STANDARDS, WITH THE DETAILS AND NOTES LISTED IN THIS PLAN SET, AND ADJUSTED TO FIT FIELD CONDITIONS.
- ANY DEVIATION FROM THESE NOTES BY THE CONTRACTOR SHALL BE APPROVED BY WDNR, MUNICIPALITY, AND ENGINEER.
- REMOVAL OF EROSION CONTROL DEVICES AND MOBILIZATION FOR SUCH REMOVAL SHALL BE INCIDENTAL TO THE RESPECTIVE DEVICES INSTALLATION BID ITEMS.
- EROSION CONTROL MEASURES AS SPECIFIED IN THESE PLANS SHALL BE INSTALLED PRIOR TO ANY GRADING OR LAND DISTURBANCE. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE AREAS THEY SERVE HAVE ESTABLISHED VEGETATIVE COVER (DEFINED AS 80% VEGETATIVE GROWTH OR AS OTHERWISE AUTHORIZED BY REGULATORY AGENCIES). APPLY APPROPRIATE SOIL CONSERVATION TECHNIQUES TO PROTECT PROJECT AREA AND ADJACENT LANDS. ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. EROSION CONTROL MEASURES INCLUDE BUT MAY NOT BE LIMITED TO SILT FENCE, WATTLES, INLET PROTECTION, MULCHING, EROSION MATTING, AND RAPID GROWTH
- VEGETATION. TEMPORARY SEED SHALL BE USED WHEN LAND DISTURBING CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS. TEMPORARY SEED (SEEDING TEMPORARY, 630.0200) IF NEEDED SHALL BE INCIDENTAL TO EXCAVATION COMMON BID ITEM.
- IF TEMPORARY STORAGE IS REQUIRED FOR ANY EXCESS SOIL OR SPOIL MATERIAL, PERIMETER CONTROL AND TEMPORARY STORAGE AND STABILIZATION WILL BE NECESSARY WITHIN 7 CALENDAR DAYS, PER WDNR TECHNICAL STANDARDS.

EROSION CONTROL

OPERATION AND MAINTENANCE PLAN

- ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD. NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- A COPY OF THE STORM WATER MANAGEMENT REPORT, GRADING & EROSION CONTROL PLAN. PROJECT PERMITS, EROSION CONTROL INSPECTION REPORTS, AND LOG BOOK CONTAINING: INSPECTION DATES AND TIMES, REPAIRS NECESSARY, AND REPAIRS MADE, SHALL BE KEPT ON SITE AT ALL TIMES AT AN ACCESSIBLE LOCATION, SUCH AS A DEDICATED PROJECT MAILBOX.
- CONTRACTORS ARE TO MAINTAIN THE CONSTRUCTION SITE IN A NEAT AND TIDY MANNER
- FOR THE DURATION OF THE PROJECT.
- ALL MAINTENANCE IS TO BE IN ACCORDANCE WITH APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.

- 5. SITE SHALL BE STABILIZED IN PHASES AS WORK IN VARIOUS AREAS IS COMPLETED (AREA BROUGHT UP TO GRADE AND TOPSOIL PLACED OR PAVED)
- 6. ALL DISTURBED AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE WILL BE STABILIZED WITH TOPSOIL, SEED, FERTILIZER AND MULCH (HYDROSEEDING), AS SHOWN ON THE PLANS AND/OR STATED IN THE SPECIFICATIONS, WITHIN 7 DAYS OF THE END OF ACTIVE DISTURBANCE OF SOIL SURFACES; OTHERWISE INTERIM SOIL STABILIZATION METHODS ARE REQUIRED.
- 7. INTERIM SOIL STABILIZATION METHODS, SUCH AS TEMPORARY GRADING PRACTICES FOR EROSION CONTROL, TEMPORARY SEEDING AND POLYMER APPLICATION IN ACCORDANCE WITH DNR TECHNICAL STANDARDS 1067, 1059 AND 1050, RESPECTIVELY, ARE REQUIRED FOR AREAS OF THE SITE WHERE THERE IS NO ACTIVE SOIL DISTURBANCE WITHIN 7 DAYS. DUST CONTROL SHALL BE PROVIDED WHEN NECESSARY, IN ACCORDANCE WITH DNR TECHNICAL STANDARD 1068.
- 8. ALL PERMANENT SEEDING SHALL BE COMPLETED BY SEPTEMBER 15. ALL TEMPORARY SEEDING SHALL BE COMPLETED BY OCTOBER 15. (REFER TO DNR TECHNICAL STANDARD
- 9. STABILIZATION AFTER OCTOBER 15 SHALL CONSIST OF ANIONIC POLYACRYLAMIDE (PAM) IN ADDITION TO TEMPORARY SEEDING. PLACE PAM IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1050. ANIONIC PAM SHALL NOT BE APPLIED WITHIN 30 FEET (MINIMUM) OF SURFACE WATERS OF THE STATE.
- 10. ALL SEEDED AREAS SHALL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND HYDROSEEDED ACCORDING TO PROJECT SPECIFICATIONS TO MAINTAIN A VIGOROUS DENSE VEGETATIVE COVER.
- 11. SILT FENCE SHALL BE INSTALLED AROUND THE BASE OF THE TOPSOIL STOCKPILES WITHIN 7 DAYS OF LAY-UP AND TEMPORARILY SEEDED WITHIN 30 DAYS OF LAY-UP. LONG-TERM STOCKPILES WILL BE PERMANENTLY SEEDED WITHIN 7 DAYS OF THE END
- OF ACTIVE DISTURBANCE. 12. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE AND EROSION BALES WHEN IT REACHES HALF THE HEIGHT OF THE FENCE OR BALE. THE SILT FENCE AND EROSION BALES WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- 13. DEWATERING SHALL BE PROVIDED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061. THE CONTRACTOR SHALL CHOOSE AN APPROPRIATE DEWATERING METHOD/DEVICE, PER DNR TECHNICAL STANDARD 1061, TO REMOVE SEDIMENT FROM WATER GENERATED DURING DEWATERING ACTIVITIES PRIOR TO DISCHARGING OFF-SITE, TO WATERS OF THE STATE, OR WETLANDS.
- 14. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING, NOT FLUSHED, BEFORE THE END OF EACH WORKING DAY.
- 15. SITE AREAS LEFT INACTIVE FOR 7 CALENDAR DAYS SHALL BE TEMPORARILY SEEDED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059.
- 16. CONTRACTOR'S SPECIFIC CONSTRUCTION METHODS MAY DICTATE ADDITIONAL SPECIFIC EROSION CONTROL MEASURES NOT INCLUDED HEREIN. DOCUMENTED ADDITIONS AND OR CHANGES SHALL BE APPROVED BY WDNR AND THE MUNICIPALITY WITH THE ENGINEER'S CONSENT PRIOR TO IMPLEMENTATION.
- 17. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION & SEDIMENT CONTROL THROUGHOUT CONSTRUCTION UNTIL SITE STABILIZATION IS ATTAINED.

EROSION CONTROL SEQUENCE OF CONSTRUCTION

- AFTER BIDS ARE RECEIVED AND A GENERAL CONTRACTOR IS SELECTED, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE WITH ALL RELEVANT PARTIES IN ATTENDANCE.
- OBTAIN PLAN APPROVAL FROM THE MUNICIPALITY AND ALL APPLICABLE PERMITS, INCLUDING EROSION CONTROL PERMIT.
- 3. SILT FENCE, INLET PROTECTION, AND/OR TRACKING PAD(S) SHALL BE INSTALLED AS SHOWN ON THE PLANS AND INSPECTED PRIOR TO COMMENCING ANY LAND DISTURBING
- CLEAR AND GRUB AREAS AS SHOWN ON THE THE PLANS OR AS DIRECTED.
- REMOVE TOPSOIL IN THE GRADING AREA AS SHOWN ON THE PLANS. STOCKPILE EXCESS TOPSOIL AS DIRECTED, SEPARATE FROM THE REST OF THE EXCAVATED
- 6. PERFORM REMOVALS AS DIRECTED ON THE PLANS AND IN CONJUNCTION WITH ENGINEER'S APPROVAL. EARTHWORK WILL THEN PROCEED. BASE AGGREGATE MATERIALS WILL BE BROUGHT IN AS NEEDED AND STORED WITHIN THE SITE, PLACED AND COMPACTED. PROVIDE POSITIVE DRAINAGE THROUGHOUT THE PROJECT SITE TO PROPOSED STRUCTURES OR TEMPORARY PRACTICES AS FIELD CONDITIONS DICTATE.
- 7. SIDEWALK AND PAVEMENT OPERATIONS WILL FOLLOW ALONG WITH DISTURBED AREA RESTORATION AS INDICATED ON THESE PLANS BY PLACING TOPSOIL, SEED, FERTILIZER, MULCH (HYDROSEEDING) AND OR EROSION MATTING AS PER THE APPROVED PROJECT PLANS AND SPECIFICATIONS. SLOPES SHALL BE STABILIZED WITH EROSION MAT AS
- 8. FINAL SITE STABILIZATION IS ANTICIPATED FOLLOWING THE COMPLETION OF ALL GRADING AND PAVING ACTIVITIES. TEMPORARY STABILIZATION IS NOT ANTICIPATED GIVEN THE PROJECT SCHEDULE AND POTENTIAL GROWING SEASON BEING IN CONCERT. IN THE EVENT AREAS OF DISTURBANCE ARE LEFT INACTIVE FOR A PERIOD OF 7 CALENDAR DAYS OR THE PROJECT SCHEDULE AND GROWING SEASON ARE NOT IN CONCERT, THEN TEMPORARY SEEDING SHALL BE REQUIRED ON SAID INACTIVE AREAS.
- 9. AFTER ENTIRE PROJECT SITE IS STABILIZED AND APPROVAL FROM THE VILLAGE OR THEIR REPRESENTATIVE, IS ATTAINED, REMOVE TEMPORARY EROSION CONTROL MEASURES, INCLUDING SILT FENCE, INLET PROTECTION OR OTHER MEASURES INCLUDING
- ANY ACCUMULATED SEDIMENT, AND DISPOSE OF MATERIALS PROPERLY. 10. CONTRACTOR SHALL FILE NOTICE OF TERMINATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES, IF APPLICABLE.
- 11. FINAL "AS-BUILT" SURVEYS ARE TO BE CONDUCTED AND FINAL DOCUMENTS FORWARDED TO THE VILLAGE.
- 12. WATERING THE SEEDED/RESTORED AREAS IS NOT ANTICIPATED WITH THIS CONSTRUCTION SCHEDULE; HOWEVER, IF ADEQUATE RAIN IS NOT EXPERIENCED WITHIN ONE WEEK AFTER INITIAL SEED GERMINATION AT ANY POINT DURING THE CONSTRUCTION PROCESS, WATER SHALL BE TRUCKED IN AND APPLIED TO THE SEEDED/RESTORED AREAS ONCE PER WEEK, OR IN ACCORDANCE WITH THE SEED PRODUCER'S SPECIFICATIONS.
- F CONSTRUCTION SCHEDULE SHOULD CHANGE SIGNIFICANTLY, THIS PLAN NARRATIVE WILL BE UPDATED AND RESUBMITTED BY THE GENERAL CONTRACTOR TO THE VILLAGE AND WDNR.

EROSION CONTROL MEASURES

- 1. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THESE PLANS AND PER THE LATEST WDNR TECHNICAL STANDARDS. TECHNICAL STANDARDS MAY BE VIEWED ONLINE
- AT: https://dnr.wi.gov/topic/Stormwater/standards/index.html
- 2. ALL EROSION CONTROL MEASURES SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 1 INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD.
- 3. CATCH BASINS SHALL BE PROTECTED WITH INLET FILTERS THAT ARE PHASED IN WITH CONSTRUCTION TO REDUCE SEDIMENT FROM ENTERING THESE AREAS PER WDNR TECHNICAL STANDARD 1060 AS FOLLOWS:
- 3.1. ALL FABRIC BARRIERS SELECTED FOR INLET/CATCH BASIN PROTECTION DEVICES SHALL BE SELECTED FROM THE LIST OF APPROVED FABRICS CERTIFIED FOR INLET PROTECTION, GEOTEXTILE FABRIC, TYPE FF IN THE CURRENT EDITION OF THE WISDOT PRODUCT ACCEPTABILITY LIST (PAL). THE PAL MAY BE ATTAINED ONLINE AT:
 - http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools

- /pal/default.aspx 3.2. PLACEMENT OF SPOIL MATERIAL, DEBRIS, OR SOILS ON TOP OF INLETS/CATCH
- BASINS, EVEN IF TEMPORARY IS STRICTLY DISCOURAGED AND PROHIBITED. SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED BETWEEN 3 AND 3 THE DESIGN DEPTH OF THE DEVICE, OR WHEN THE DEVICE IS NO LONGER FUNCTIONING PER MANUFACTURER'S SPECIFICATIONS. ALL SEDIMENT COLLECTED SHALL BE PROPERLY DISPOSED OF TO PREVENT DISCHARGE INTO LOCAL STORM SEWER PIPES, WETLANDS, OR WATERWAYS.
- DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLETS/CATCH BASINS AND IMPEDE THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET/CATCH BASIN SHALL BE REMOVED AND PROPERLY DISPOSED OF PER NOTE 3.3 ABOVE.
- 3.5. INLET FILTERS MAY BE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF CONSTRUCTION, HAULING OR MOVEMENT OF CONSTRUCTION EQUIPMENT THROUGHOUT THE SITE, AND ONCE THE SITE IS ADEQUATELY STABILIZED, UNLESS OTHERWISE NOTIFIED BY WDNR.
- 4. CONSTRUCTION SITE PERIMETER SHALL BE PROTECTED AS SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION TO INTERCEPT AND REDUCE THE FLOW OF SEDIMENT-LADEN SHEET FLOW RUNOFF FROM THE CONSTRUCTION SITE PURSUANT TO WDNR TECHNICAL STANDARD 1056. SEDIMENT LOGS MAY BE USED IN PLACE OF SILT
- 4.1. SILT FENCE ENDS SHALL BE EXTENDED UP-SLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE.
- 4.2. INSTALLED SILT FENCE SHALL BE IN ACCORDANCE WITH THE DETAIL IN THESE PLANS (MINIMUM 14" HEIGHT, MAXIMUM HEIGHT 28" MEASURED FROM THE INSTALLED GROUND ELEVATION.
- 4.3. SILT FENCE SHALL BE SUPPORTED BY EITHER STEEL OR WOOD SUPPORT POSTS. 4.4. THE MAXIMUM POST SPACING FOR NON-WOVEN SILT FENCE SHALL BE 3 FEET AND 8 FEET FOR WOVEN FABRIC.
- 4.5. SILT FENCE SHALL HAVE A SUPPORT CORD AT THE TOP OF THE FENCE. 4.6. WHERE JOINTS ARE NEEDED, EACH END OF THE FABRIC SHALL BE SECURELY FASTENED TO A POST. THE POSTS SHALL BE WRAPPED AROUND EACH OTHER TO PRODUCE A STABLE AND SECURE JOINT OR SHALL BE OVERLAPPED THE DISTANCE BETWEEN TWO POSTS.
- 4.7. THE POSTS SHALL EXTEND INTO THE GROUND 20 INCHES AFTER INSTALLATION 4.8. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4 INCH WIDE BY 6 INCH DEEP TRENCH, OR 6 INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. THE TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED ANY WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
- 4.9. ON THE TERMINAL ENDS OF THE SILT FENCE THE FABRIC SHALL BE WRAPPED AROUND THE POST SUCH THAT THE STAPLES ARE NOT VISIBLE.
- 4.10. GEOTEXTILE FABRIC SPECIFICATIONS SHALL MEET VALUES ESTABLISHED IN TECHNICAL STANDARD 1056.
- 4.11. SILT FENCE SHALL BE REMOVED ONCE THE SITE IS ADEQUATELY STABILIZED. 4.12. WHEN PLACING SILT FENCE NEAR TREES, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE ROOT SYSTEM BY AVOIDING COMPACTION AND ROOT CUTTING WITHIN 1.5 FEET MULTIPLIED BY THE INCH DIAMETER OF THE TREE.
- 4.13. THE CONTRACTOR MAY FURTHER STRENGTHEN THE SILT FENCE BY USING STRAW BALES ON THE DOWN SLOPE SIDE AS NEEDED.
- 4.14. DAMAGED OR DECOMPOSED SILT FENCE, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF THE FENCE SHALL BE REPAIRED OR CORRECTED.
- 4.15. SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH } THE HEIGHT OF THE FENCE TO PREVENT DISCHARGE INTO AREA WATERWAYS OR
- 5. DITCH CHECKS ARE TO BE USED TO REDUCE THE VELOCITY OF WATER FLOWING IN CHANNELS AS SHOWN ON THE PLANS. DITCH CHECKS SHALL BE CONSTRUCTED FROM ENGINEERED PRODUCTS FOUND ON THE PAL. DITCH CHECKS ARE TO BE INSTALLED IN THE AREAS SHOWN ON THE PLANS PER WDNR TECHNICAL STANDARD 1062 AS FOLLOWS:
- DITCH CHECKS ARE TO BE INSTALLED TO A MINIMUM HEIGHT OF 10 INCHES AND SHALL NOT EXCEED A MAXIMUM HEIGHT OF 16 INCHES FOR MANUFACTURED OR BIODEGRADABLE MATERIALS.
- 5.2. DITCH CHECKS MUST BE INSTALLED WITH THE CENTER LOWER THAN THE SIDES FORMING A WEIR. IF THIS IS NOT DONE. STORMWATER FLOWS ARE FORCED TO THE EDGE OF THE DITCH CHECK, THUS PROMOTING SCOUR, OUT OF THE CHANNEL FLOW CAUSING EXCESSIVE EROSION.
- AT A MINIMUM, INSTALL ONE DITCH CHECK FOR EVERY TWO FEET OF DROP IN THE
- DITCH CHECKS SHALL BE PLACED SUCH THAT THE RESULTANT PONDING WILL NOT CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS.
- DITCH CHECKS SHALL BE UTILIZED DURING ROUGH GRADING AND SHALL BE REMOVED ONCE THE FINAL GRADING AND CHANNEL STABILIZATION IS APPLIED. CHANNEL EROSION MAT SHALL BE PLACED AT THE BASE OF THE DITCH CHECK. AND EXTENDED A MINIMUM OF 6 FEET, TO PREVENT SCOUR AND WASHING OUT
- THE TOE OF THE DITCH CHECK. DITCH CHECKS INSTALLED IN GRASS LINED CHANNELS MAY KILL THE VEGETATION IF WATER IS PONDED FOR EXTENDED PERIODS. PROPER MAINTENANCE IS REQUIRED TO KEEP AREAS ABOVE AND BELOW THE DITCH CHECK STABILIZED.
- 6. NON-CHANNEL EROSION MAT TO BE USED TO PROTECT THE SOIL SURFACE ON ERODIBLE SLOPES FROM THE EROSIVE EFFECT OF RAINFALL AND PREVENT SHEET EROSION DURING THE ESTABLISHMENT OF GRASS OR OTHER VEGETATION, AND TO REDUCE SOIL MOISTURE LOSS DUE TO EVAPORATION. EROSION MAT TO BE INSTALLED IN THE AREAS SHOWN IN THE PLANS PER WDNR TECHNICAL STANDARD 1052 AND AS
- 6.1. CLASS I TYPE B EROSION MATTING SHALL BE USED FOR A SHORT TERM DURATION (MAXIMUM OF 6 MONTHS) AND APPLIED ON ERODIBLE SLOPES 2:1 OR FLATTER.
- DURATION (MAXIMUM 6 MONTHS) WHERE MOWING MAY BE ACCOMPLISHED WITHIN TWO WEEKS AFTER INSTALLATION AND APPLIED ON SLOPES 2.5:1 OR FLATTER. 6.3. CLASS II TYPE C EROSION MATTING SHALL BE USED FOR A LONG TERM DURATION (~ 3 YEARS) ON SLOPES 2:1 OR FLATTER AND IN ENVIRONMENTALLY SENSITIVE

CLASS I TYPE B URBAN EROSION MATTING SHALL BE USED FOR A SHORT TERM

- AREAS WHERE PLASTIC NETTING IS INAPPROPRIATE. MATTING SHALL BE INSTALLED AFTER ALL TOPSOILING, FERTILIZING AND SEEDING IS COMPLETE.
- 6.5. THE MATS SHALL BE IN FIRM AND INTIMATE CONTACT WITH THE SOIL. IT SHALL BE INSTALLED AND ANCHORED PER THE MANUFACTURER'S RECOMMENDATION.
- AT THE TIME OF INSTALLATION, DOCUMENT THE MANUFACTURER AND MAT TYPE BY RETENTION OF MATERIAL LABELS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. RETAIN THIS DOCUMENTATION UNTIL THE SITE HAS STABILIZED.
- 7. SEEDING AND MULCHING (HYDROSEEDING) TECHNIQUES SHALL BE USED ON AREAS OF EXPOSED SOIL WHERE THE ESTABLISHMENT OF VEGETATION IS DESIRED. TEMPORARY SEEDING APPLIES TO DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND-DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD OF GREATER THAN 7 CALENDAR DAYS, REQUIRING VEGETATIVE COVER FOR LESS THAN ONE YEAR. SEED AND MULCH SHALL BE UTILIZED THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH TEMPORARY VEGETATION TO HELP REDUCE EROSION PER WDR TECHNICAL STANDARDS 1059 AND 1058 RESPECTIVELY AS FOLLOWS: 7.1. TEMPORARY SEEDING REQUIRES A SEEDBED OF LOOSE SOIL TO A MINIMUM OF 2
- INCHES. 7.2. FERTILIZER APPLICATION IS NOT GENERALLY REQUIRED FOR TEMPORARY SEEDING;

- HOWEVER, ANY APPLICATION OF FERTILIZER OR LIME SHALL BE BASED ON SOIL TESTING.
- 7.3. THE SOIL SHALL HAVE A pH RANGE OF 5.5 TO 8.0. 7.4. ALL SEED SHALL CONFORM TO THE REQUIREMENTS OF THE WISCONSIN STATE
- STATUTES AND THE ADMINISTRATIVE CODE CHAPTER ATCP 20.01 REGARDING NOXIOUS WEED SEED CONTENT AND LABELING.
- SEED SHALL NOT BE USED LATER THAN ONE YEAR AFTER THE TEST DATE ON THE LABEL. 7.6. IN THE SPRING OR SUMMER, CONTRACTOR SHALL USE OATS APPLIED AT 131
- LBS/ACRE FOR TEMPORARY SEEDING PURPOSES. IN THE FALL THE CONTRACTOR SHALL USE ANNUAL RYE GRASS APPLIED AT 80 LBS/ACRE OR WINTER WHEAT APPLIED AT 131 LBS/ACRE. THE CONTRACTOR SHALL USE STRAW MULCH APPLIED AT 1.5 TONS/ACRE. DORMANT SEED SHALL BE USED WHEN SOIL TEMPERATURE IS CONSISTENTLY BELOW 53 DEGREES FAHRENHEIT (TYPICALLY AFTER NOVEMBER 1, UNTIL SNOW COVER ANNUALLY). NEVER PLACE SEED ON TOP OF SNOW. IF COVER IS NEEDED AFTER SNOW FALL, CONTRACTOR MAY CHOOSE TO USE A DRY, NON-TOXIC TYPE B SOIL STABILIZER PER MANUFACTURER'S SPECIFICATIONS, AS
- REQUIRED BY WDNR. 7.7. SEEDING SHALL NOT TAKE PLACE WHEN SOIL IS TOO WET.
- 7.8. CONTRACTOR MAY CONSIDER WATERING TO HELP ESTABLISH THE SEED. WATER APPLICATION RATES SHALL BE CONTROLLED TO HELP PREVENT EROSION. 7.9. INSPECT WEEKLY DURING THE GROWING SEASON UNTIL THE VEGETATION IS DENSELY ESTABLISHED OR THE SOD IS LAID. REPAIR AND RESEED AREAS THAT
- HAVE EROSION DAMAGE AS NECESSARY. 7.10. CONTRACTOR IS TO LIMIT VEHICLE TRAFFIC AND OTHER FORMS OF COMPACTION IN AREAS THAT ARE SEEDED AS MUCH AS POSSIBLE. RE-SEED DRIVEN OVER AREAS AS NEEDED.

DEWATERING PLAN

- TO FACILITATE CONSTRUCTION AT THE PROJECT SITE, DEWATERING MAY TAKE PLACE BY THE SELECTED CONTRACTOR. CONTRACTOR TO FOLLOW THESE INSTRUCTION WHILE PERFORMING DEWATERING ACTIVITIES ON-SITE.
- THESE INSTRUCTIONS DO NOT APPLY TO WATER BEING DISCHARGED DIRECTLY TO GROUNDWATER OR KARST FEATURES OR WELL DEWATERING SYSTEMS. CONTRACTOR SHALL COORDINATE ACCORDINGLY FOR OTHER DEWATERING ACTIVITIES AS DEEMED NECESSARY WITH THE WDNR.
- CONTRACTOR SHALL ENSURE THE DEWATERING PRACTICES CARRIED OUT MEET OR
- EXCEED WDNR TECHNICAL STANDARD 1061. A PAN OR OTHER CONTAINMENT DEVICE SHALL BE PLACED UNDERNEATH THE PUMP TO CAPTURE ANY SPILLS. OILS, GASOLINE, ETC. SHALL NOT BE STORED WITHIN WETLANDS.
- NEAR THE STORMWATER POND, OR OTHER ON-SITE WATER AREAS. 3. A TYPE 2 GEOTEXTILE BAG THAT IS NO SMALLER THAN 100 SQUARE FEET; HAS A MAXIMUM APPARENT OPENING SIZE OF 0.212 mm; HAS A GRAB TENSILE STRENGTH OF 300 LBS; MULLEN BURST OF 580 PSI; PERMEABILITY OF 0.2 CM/SEC; FABRIC WEIGHT OF 12 OZ SHALL BE USED. THE GEOTEXTILE BAG AREA AND DOWNGRADE FLOW AREA
- SHALL CONSIST OF VEGETATED AND UNDISTURBED SOILS. 4. POLYMER APPROVED BY THE WDDNR MEETING TECHNICAL STANDARD 1051 MAY BE USED IN COMBINATION WITH THE DEWATERING BAG, IF THE DEWATERING BAG IS NOT DOING AN ADEQUATE JOB ALONE OF FILTERING SEDIMENTS. THE CONTRACTOR SHALL SUPPLY TOXICITY TESTING DATA TO THE WDNR BEFORE USE ON-SITE FOR WDNR APPROVAL. POLYMER SHALL NOT BE DIRECTLY APPLIED TO SURFACE WATER. CONTRACTOR SHALL OBTAIN THE POLYMER MATERIAL SAFETY DATA SHEETS (MSDS) FOR THE SELECTED POLYMER, MANUFACTURER'S INFORMATION AND WDNR USE RESTRICTIONS (SEE TECHNICAL STANDARD 1051) AND KEEP ALL THIS INFORMATION ON-SITE. CONTRACTOR SHALL ADHERE TO MANUFACTURER AND WDNR'S APPLICATION RATES FOR THE POLYMER. THE APPLICATION RATE SHALL NOT EXCEED THE WDNR USE RESTRICTION EVEN IF THIS IS THE RECOMMENDED RATE BY THE MANUFACTURER. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT THE POLYMER IS NOT SPILLED. THE MANUFACTURER'S RECOMMENDED CLEANUP PROCEDURES SHALL BE FOLLOWED IN THE EVENT OF A SPILL.
- A TARP MAY BE UTILIZED UNDERNEATH THE TYPE 2 GEOTEXTILE BAG AND JUST DOWN SLOPE OF THE BAG TO DISCOURAGE EROSION AND SCOUR.
- 6. A FLOATING SUCTION HOSE OR OTHER FLOTATION METHOD SHALL BE UTILIZED WHEN PUMPING FROM AN AREA WITH STANDING WATER TO AVOID SUCKING SEDIMENT FROM GRADE. IF TURBID WATER IS LEAVING THE GEOTEXTILE BAG, THE CONTRACTOR SHALL SHUT OFF THE PUMP TO ALLOW SEDIMENTS TO SETTLE INTO THE BAG. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS FOR DETERMINING THE SEDIMENT

CAPACITY OF THE GEOTEXTILE BAG USING GOOD COMMON SENSE. SEDIMENT LEVELS

- CONTAINED IN THE BAG SHALL BE MONITORED TO MEASURE THE LOSS OF STORAGE CAPACITY OVER TIME. THE CONTRACTOR SHALL PROPERLY DISPOSE OF THE
- GEOTEXTILE BAG IN A WASTE RECEPTACLE ONCE IT IS NO LONGER USED. 8. DURING DEWATERING ACTIVITIES THE CONTRACTOR SHALL MONITOR DEWATERING PRACTICES AND KEEP A LOG OF THE FOLLOWING:
- 8.1. DISCHARGE DURATION AND SPECIFIED PUMPING RATE
- OBSERVED WATER TABLE AT TIME OF DEWATERING. MAINTENANCE ACTIVITIES. 8.3.
- 8.4. NAME AND QUANTITY OF POLYMER USED AND PRODUCT TYPE.
- APPLICATION RATE OF POLYMER IN POUNDS/ACRE FEET OF WATER.

MADE AVAILABLE UPON REQUEST.

- DATE AND TIME APPLIED. WEATHER CONDITIONS DURING APPLICATION.
- 8.8. METHOD OF APPLICATION. THIS LOG SHALL BE KEPT ON SITE FOR WDNR REGULATORY REVIEW. COPIES OF THIS DOCUMENTATION SHOULD BE KEPT IN THE THE CONTRACTOR'S MONITORING LOG AND

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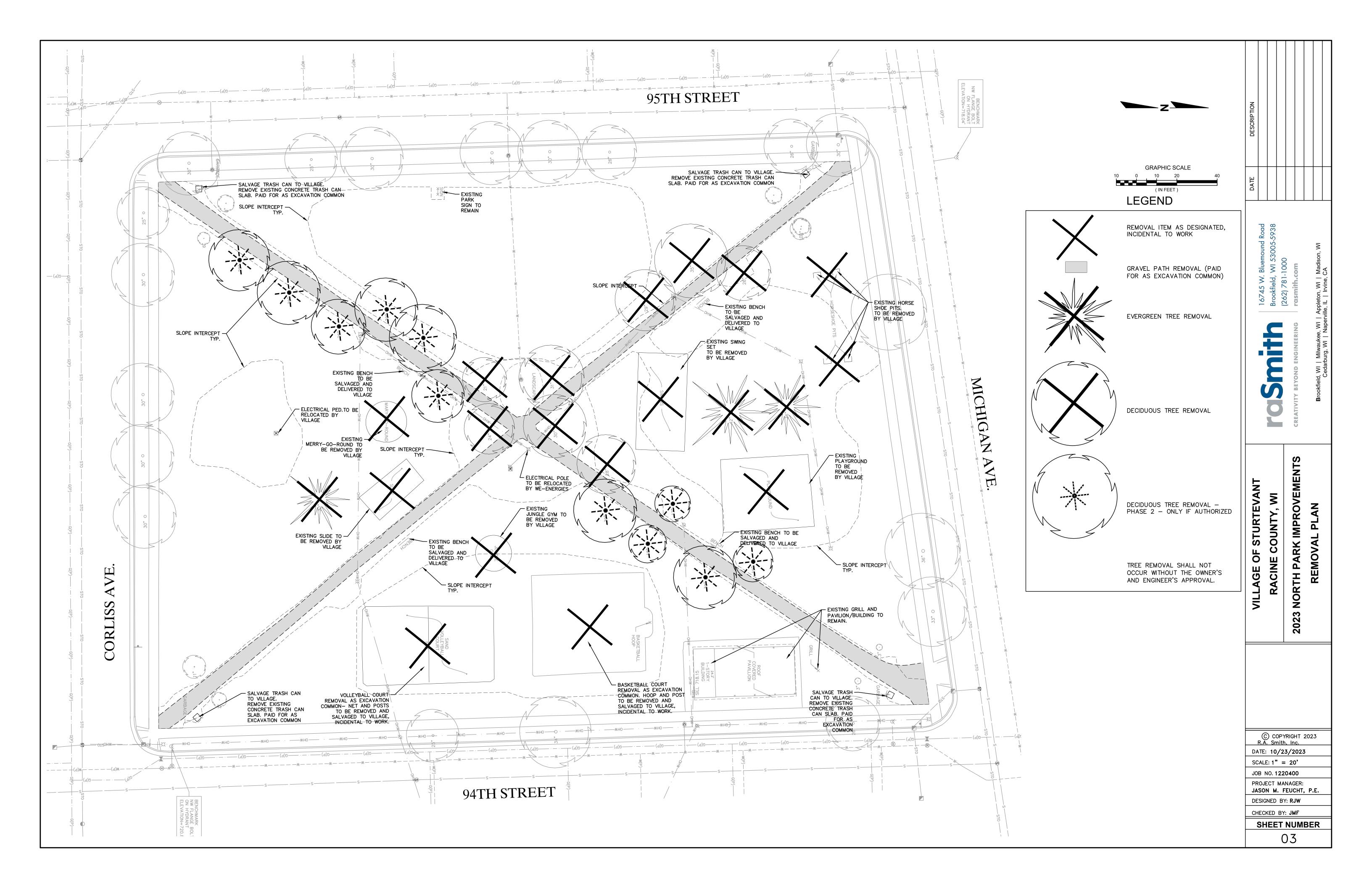
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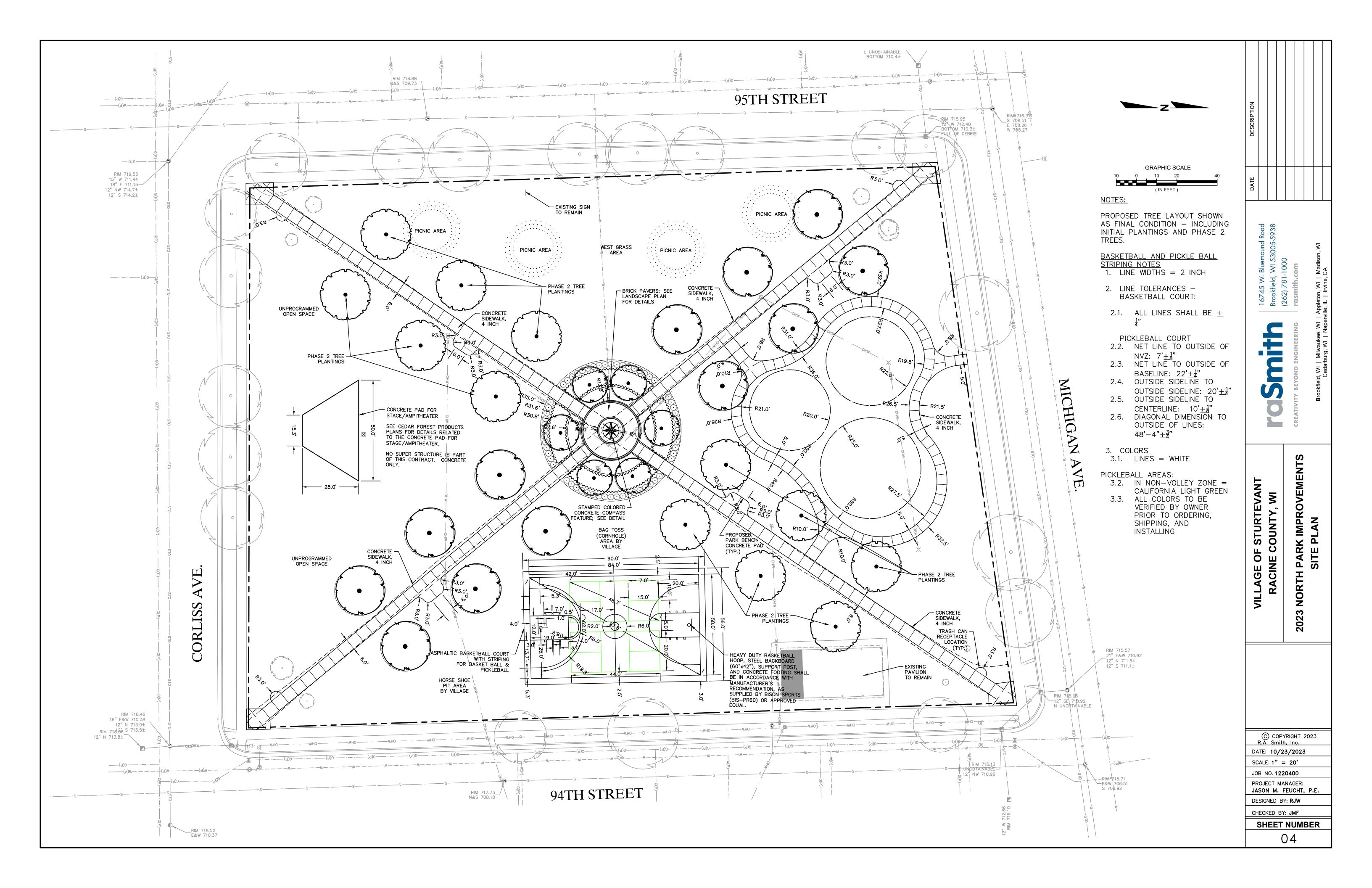
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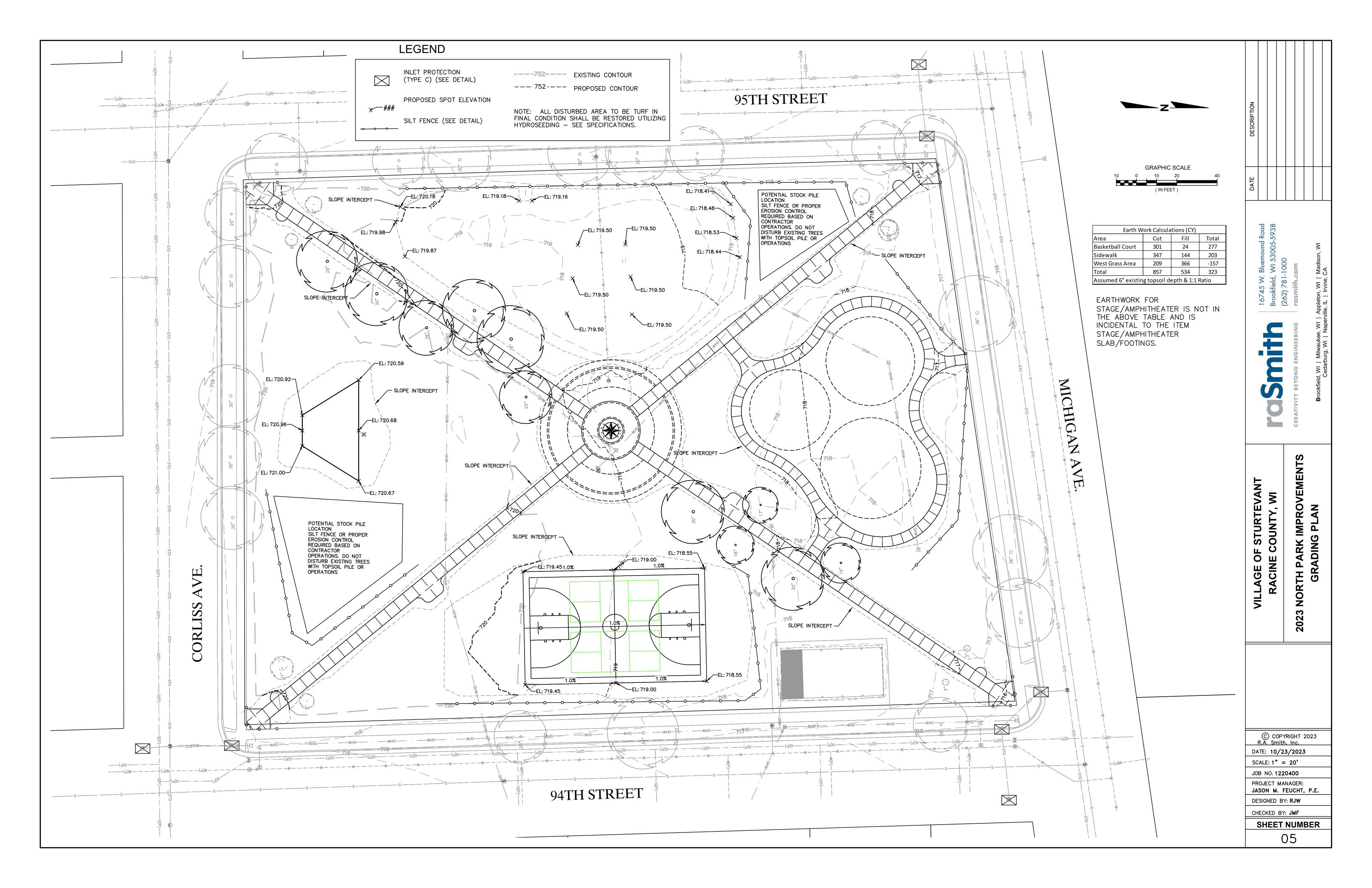
JASON M. FEUCHT, P.E.

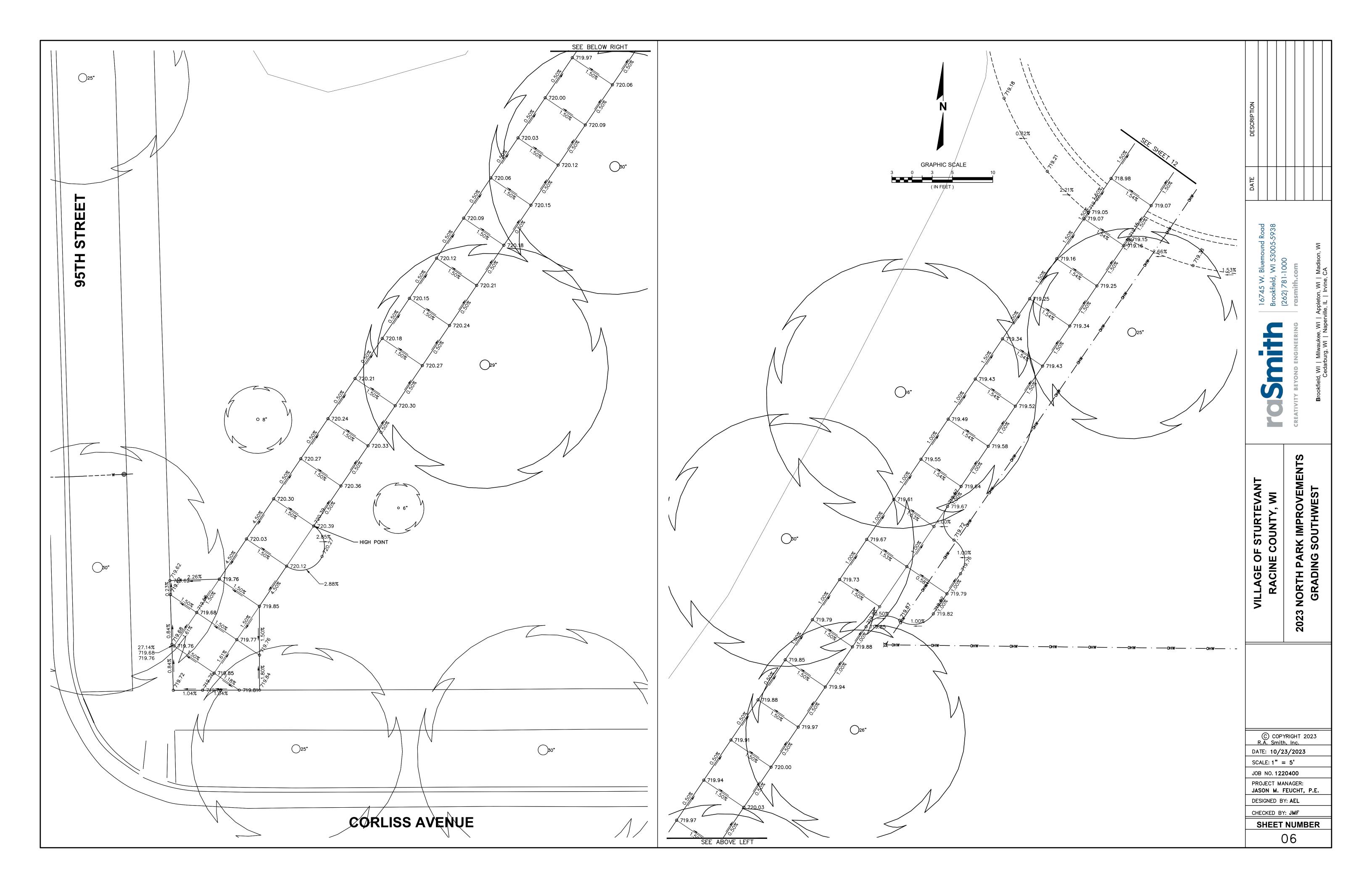
DESIGNED BY: AEL CHECKED BY: JMF

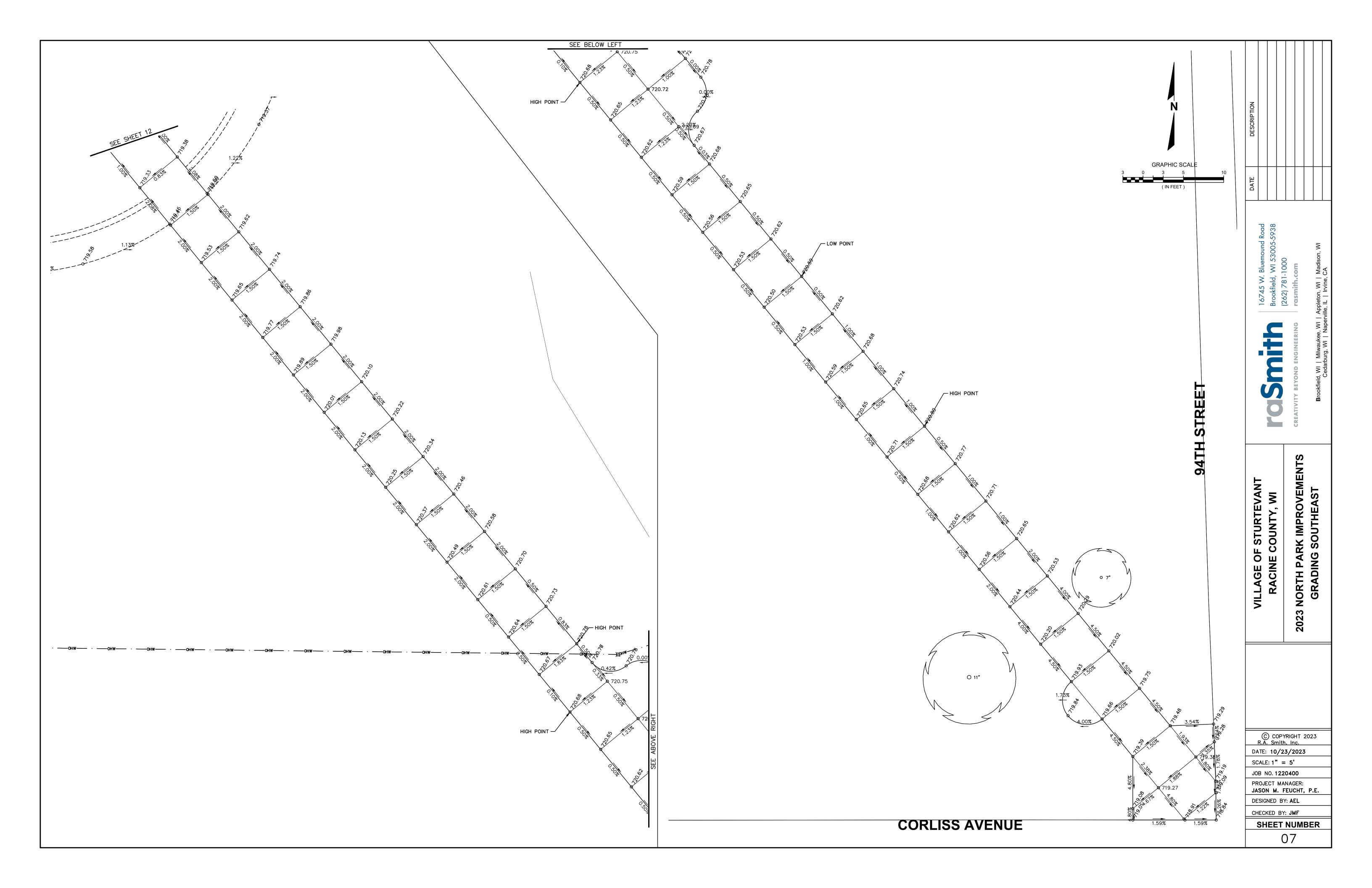
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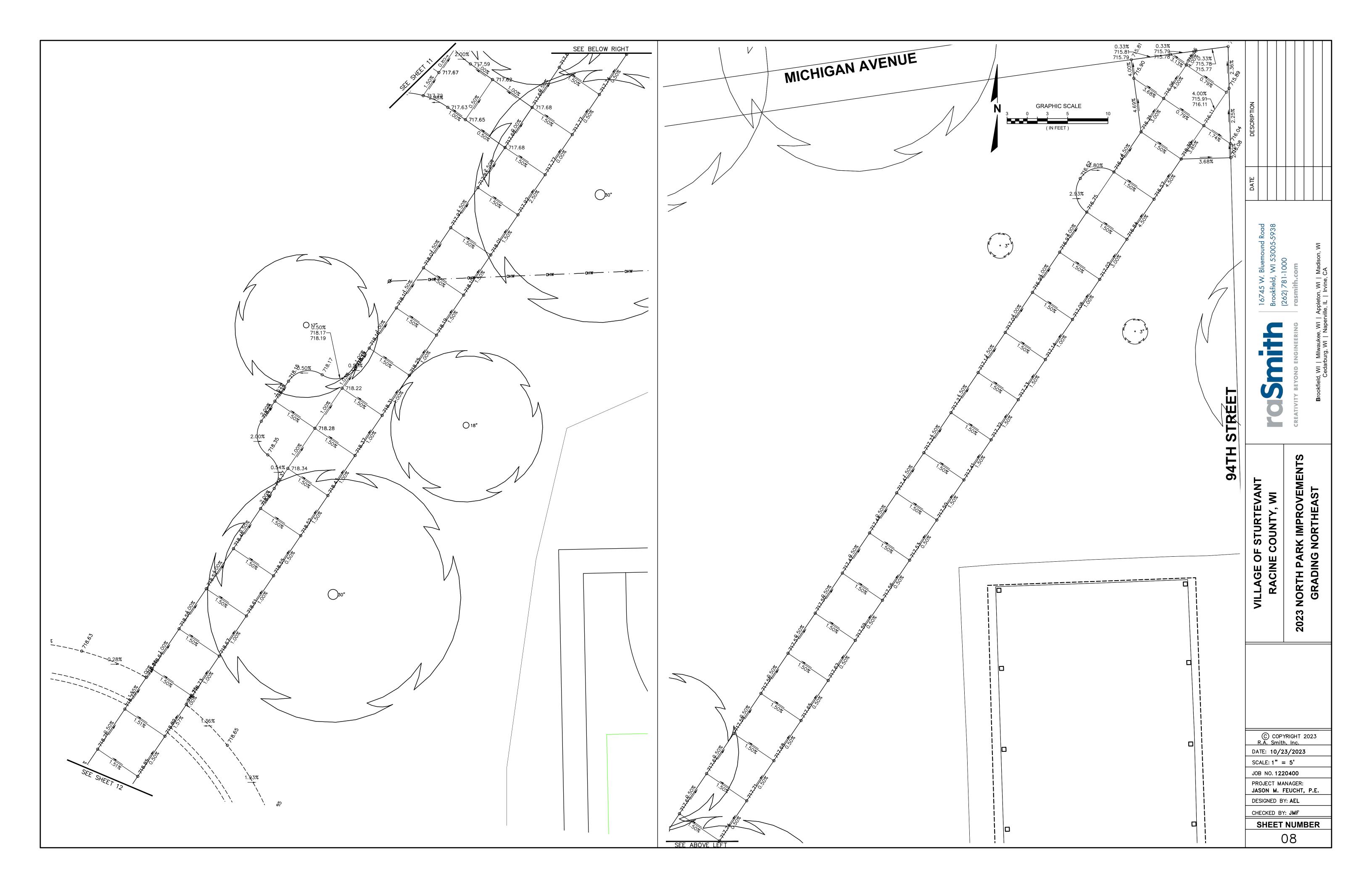


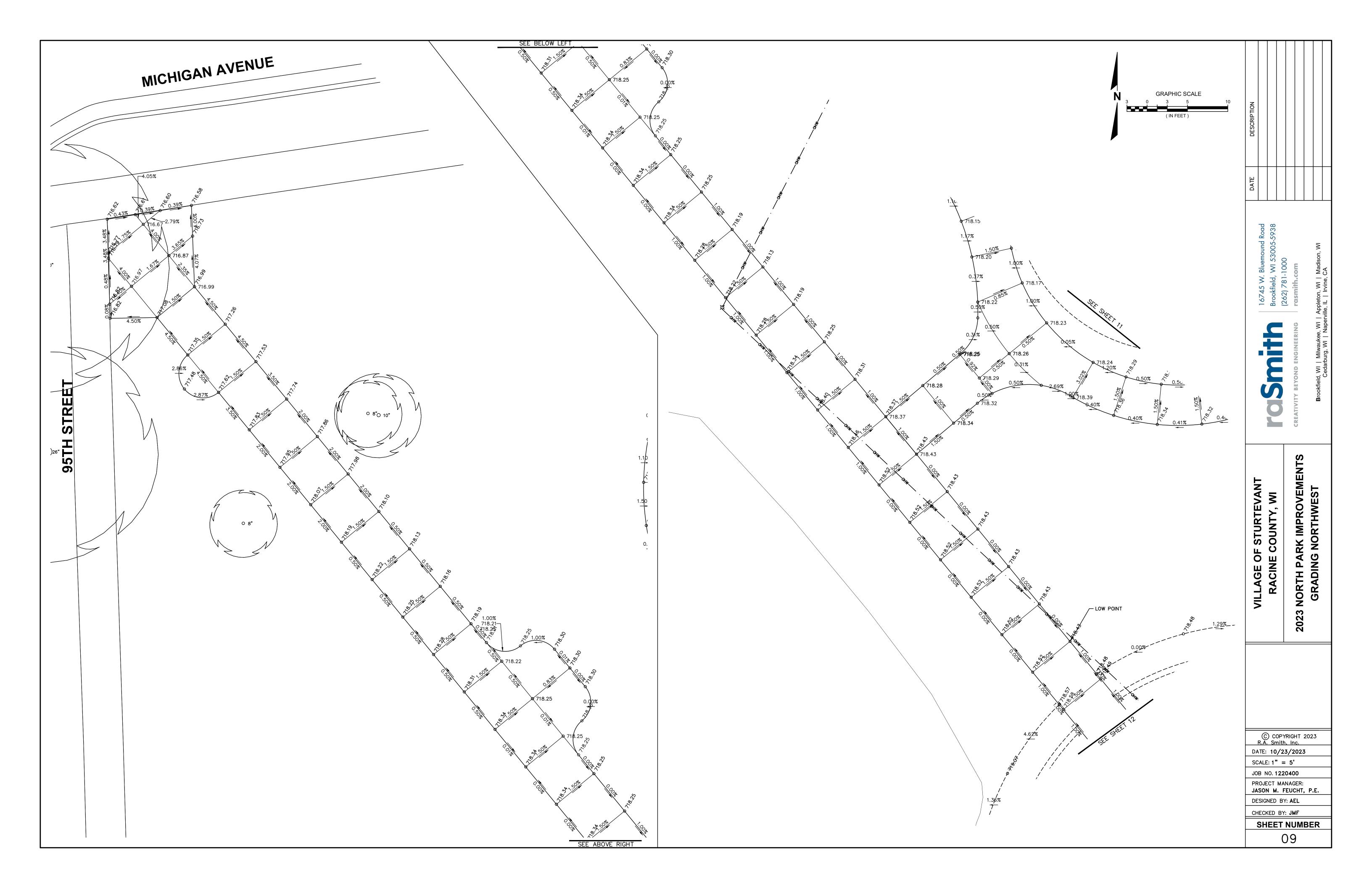


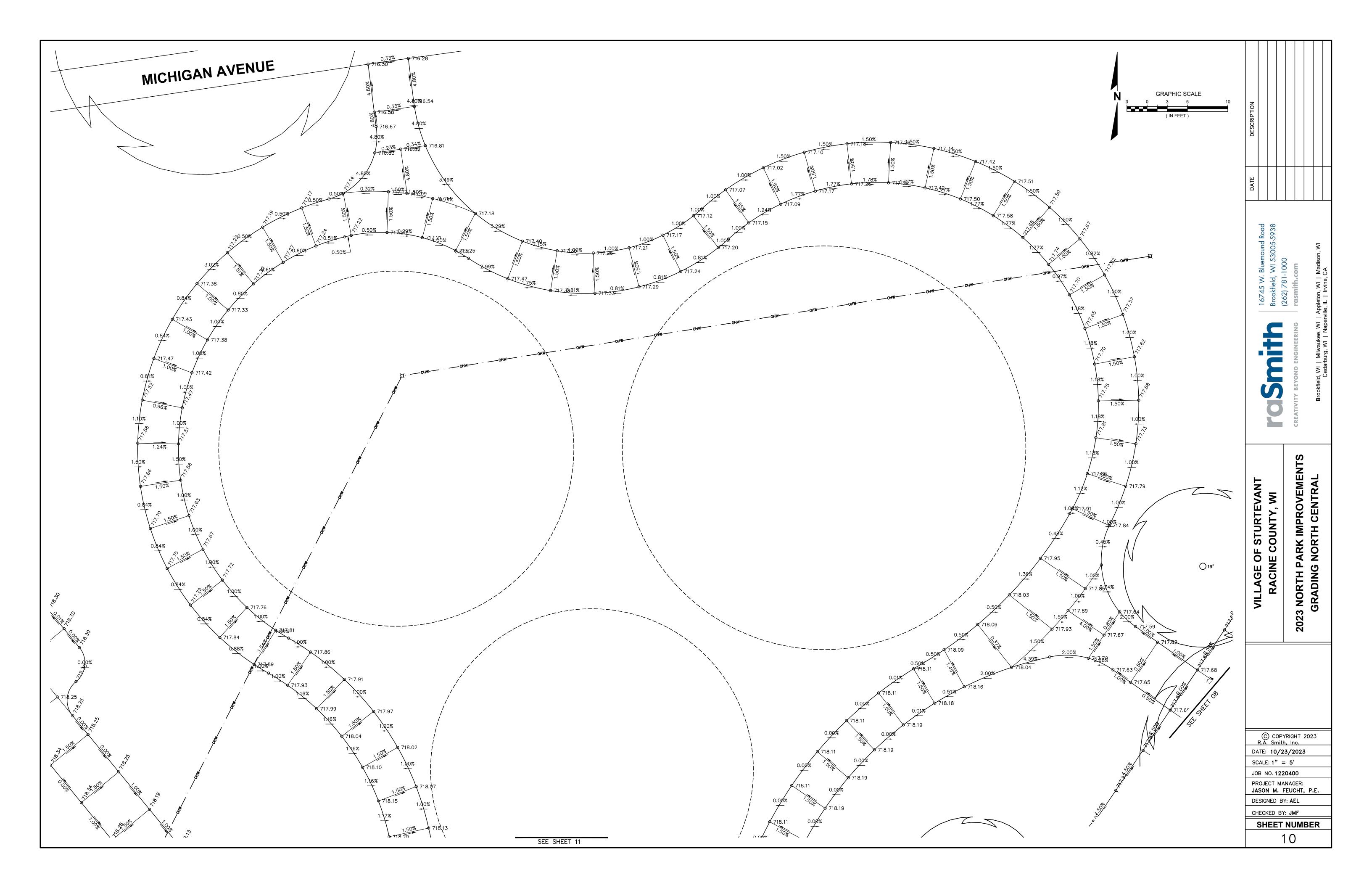


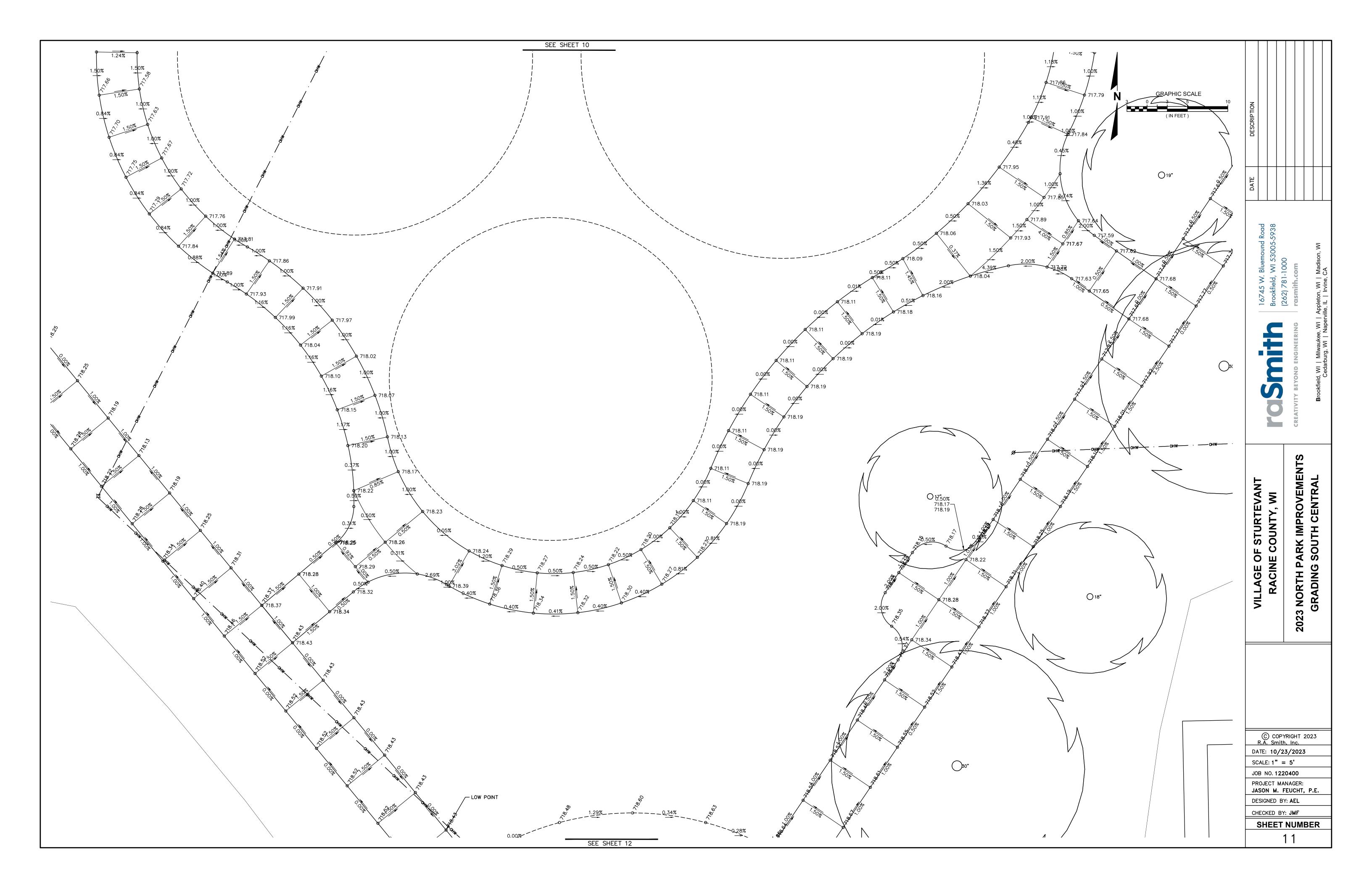


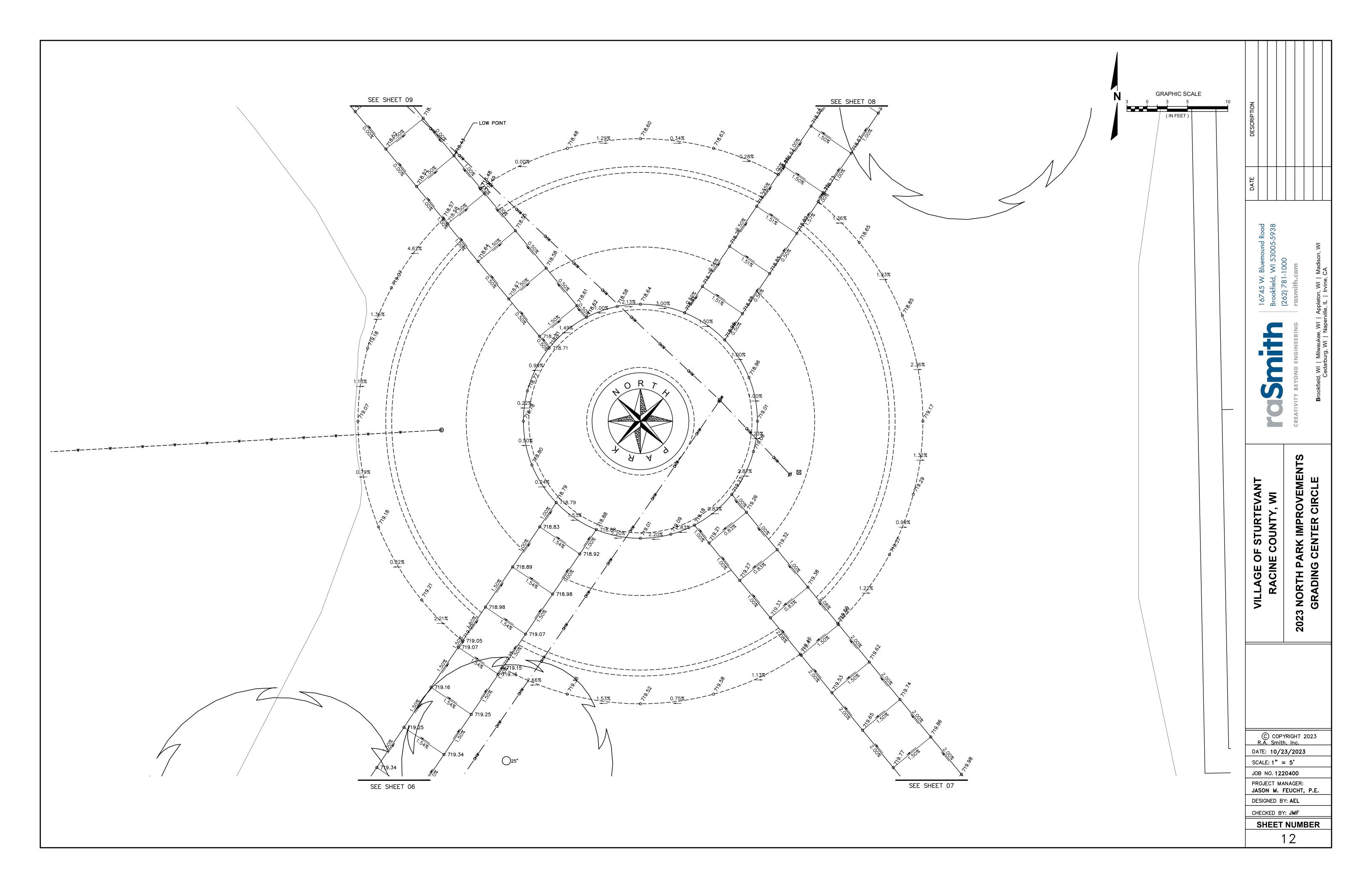


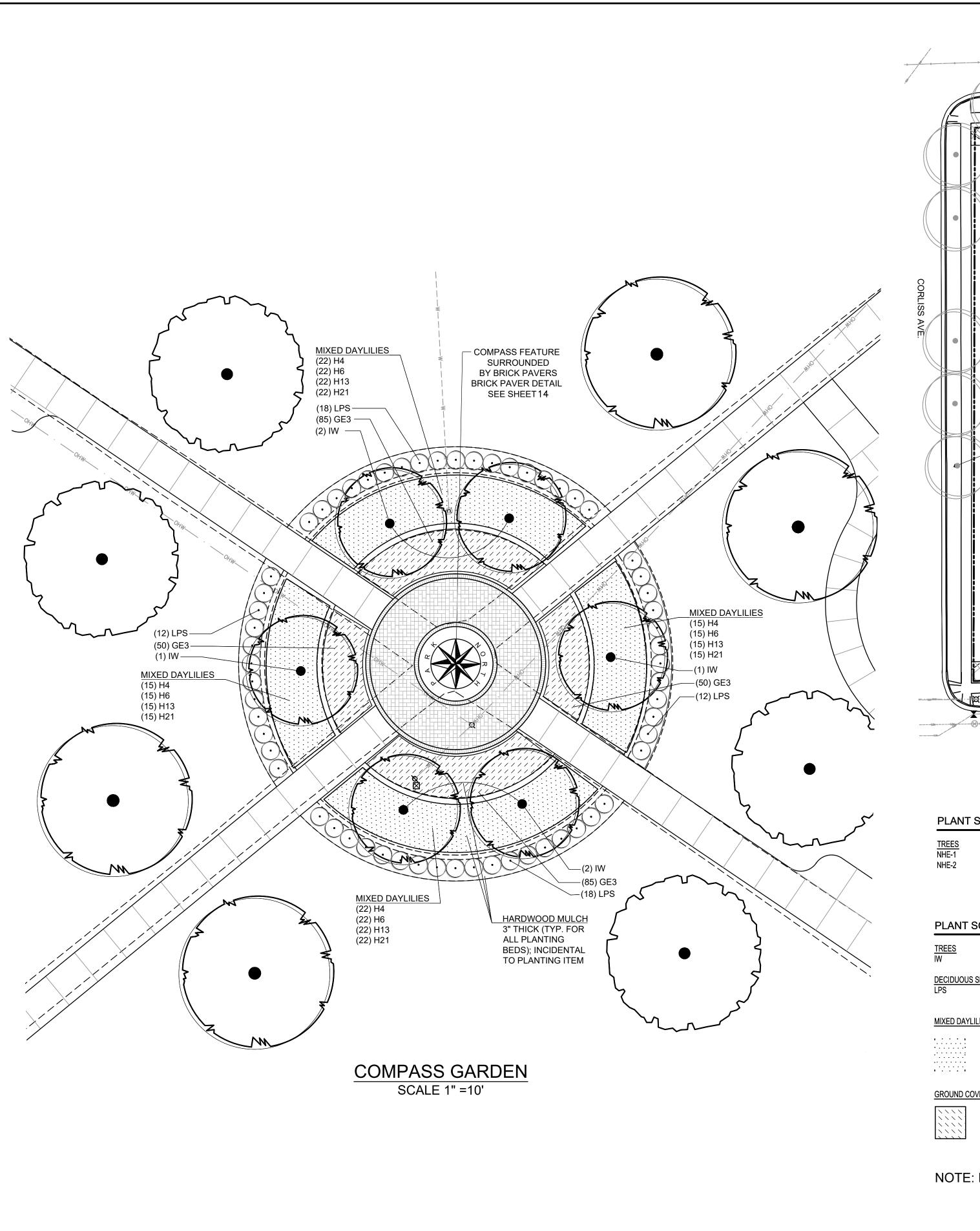


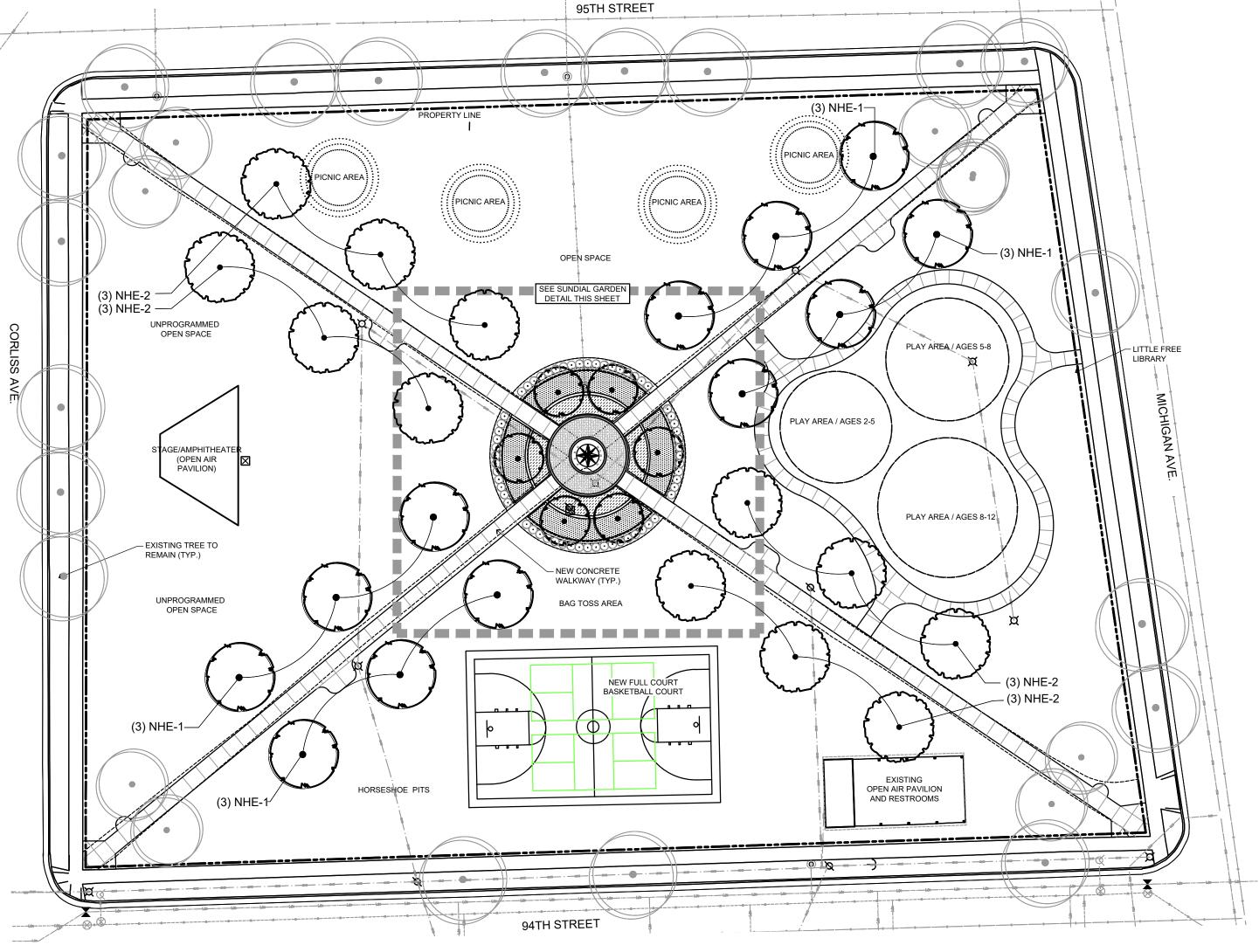












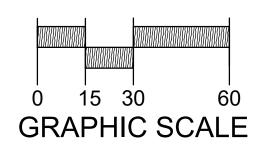
PLANT SCHEDULE PARK TREES

TREES
NHE-1
12
New Horizon Elm
Ulmus x `New Horizon`
3" CAL
B&B
Full, matching heads
Ulmus x `New Horizon`
12 NHE-1 INITIAL PLANTING PHASE
12 NHE-2 PHASE 2 PLANTING

PLANT SCHEDULE SUNDIAL GARDEN

TREES IW	QTY 6	COMMON NAME Ironwood	BOTANICAL NAME Ostrya virginiana	SIZE 2" CAL	ROOT B&B	REMARKS Full, matching heads		
DECIDUOUS SHRUBS LPS	<u>QTY</u> 60	COMMON NAME Little Princess Spirea	BOTANICAL NAME Spiraea x japonica `Little Princess`	<u>SIZE</u> 15" HT	ROOT CONT.	<u>REMARKS</u>		
MIXED DAYLILIES	CODE	<u>QTY</u>	COMMON NAME	BOTANICAL NAME	<u>SIZE</u>	ROOT	SPACING	SPACING
	H4 H6 H13 H21	74 74 74 74	Happy Returns Daylily Little Business Daylily Mini Pearl Daylily Stella de Oro Daylily	Hemerocallis x 'Happy Returns' Hemerocallis x 'Little Business' Hemerocallis x 'Mini Pearl' Hemerocallis x 'Stella de Oro'	4 1/2" 4 1/2" 4 1/2" 4 1/2"	POT POT POT POT	24" Spacing 24" Spacing 24" Spacing 24" Spacing	25% @ 24" o.c. 25% @ 24" o.c. 25% @ 24" o.c. 25% @ 24" o.c.
GROUND COVERS	CODE	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	GE3	270	Blood Red Cranesbill	Geranium sanguineum striatum	4 1/2"	РОТ	18" Spacing	

NOTE: FINAL TREE LOCATIONS TO BE APPROVED BY DPW DIRECTOR PRIOR TO PLANTING



VILLAGE OF STURTEVA RACINE COUNTY, WI NORTH PARK IMPROVEMI LANDSCAPE PLAN

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R.A. Smith, Inc.

DATE: 10/23/2023

SCALE: 1" = 30'

JOB NO. 1220400

PROJECT MANAGER:

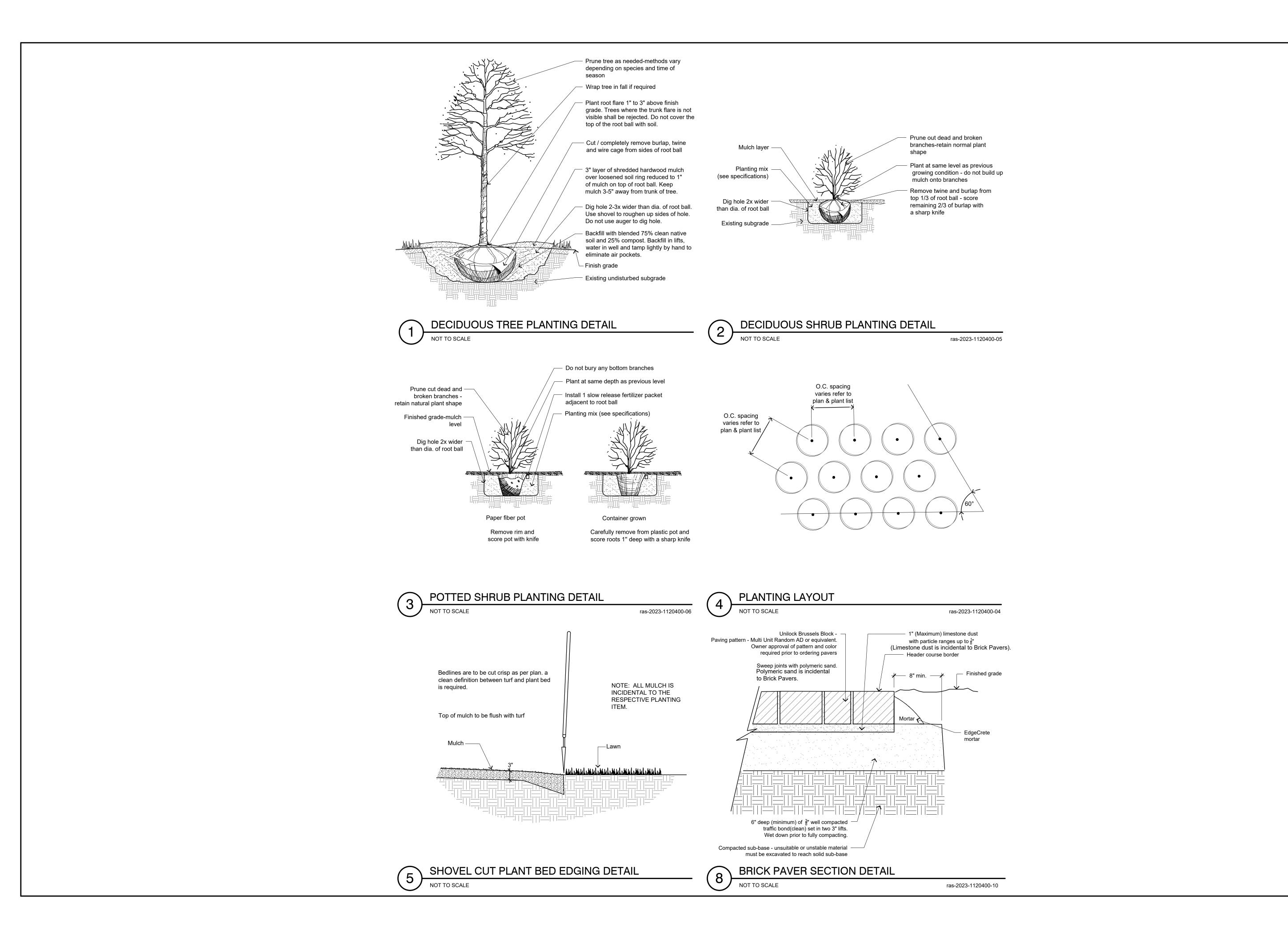
JASON M. FEUCHT, P.E.

DESIGNED BY: TM

CHECKED BY: TM

SHEET NUMBER





DATE DESCRIPTION
6/22/2023

107.45 VV. Biberhound Kod Brookfield, WI 53005-593 (262) 781-1000 rasmith.com

STATINITY BEYOND ENGINEERING

VILLAGE OF STURTEVANT
RACINE COUNTY, WI
2023 NORTH PARK IMPROVEMENTS
LANDSCAPE NOTES AND DETAILS

© COPYRIGHT 2023 R.A. Smith, Inc. DATE: 10/23/2023

JOB NO. 1220400

PROJECT MANAGER:

JASON M. FEUCHT, P.E.

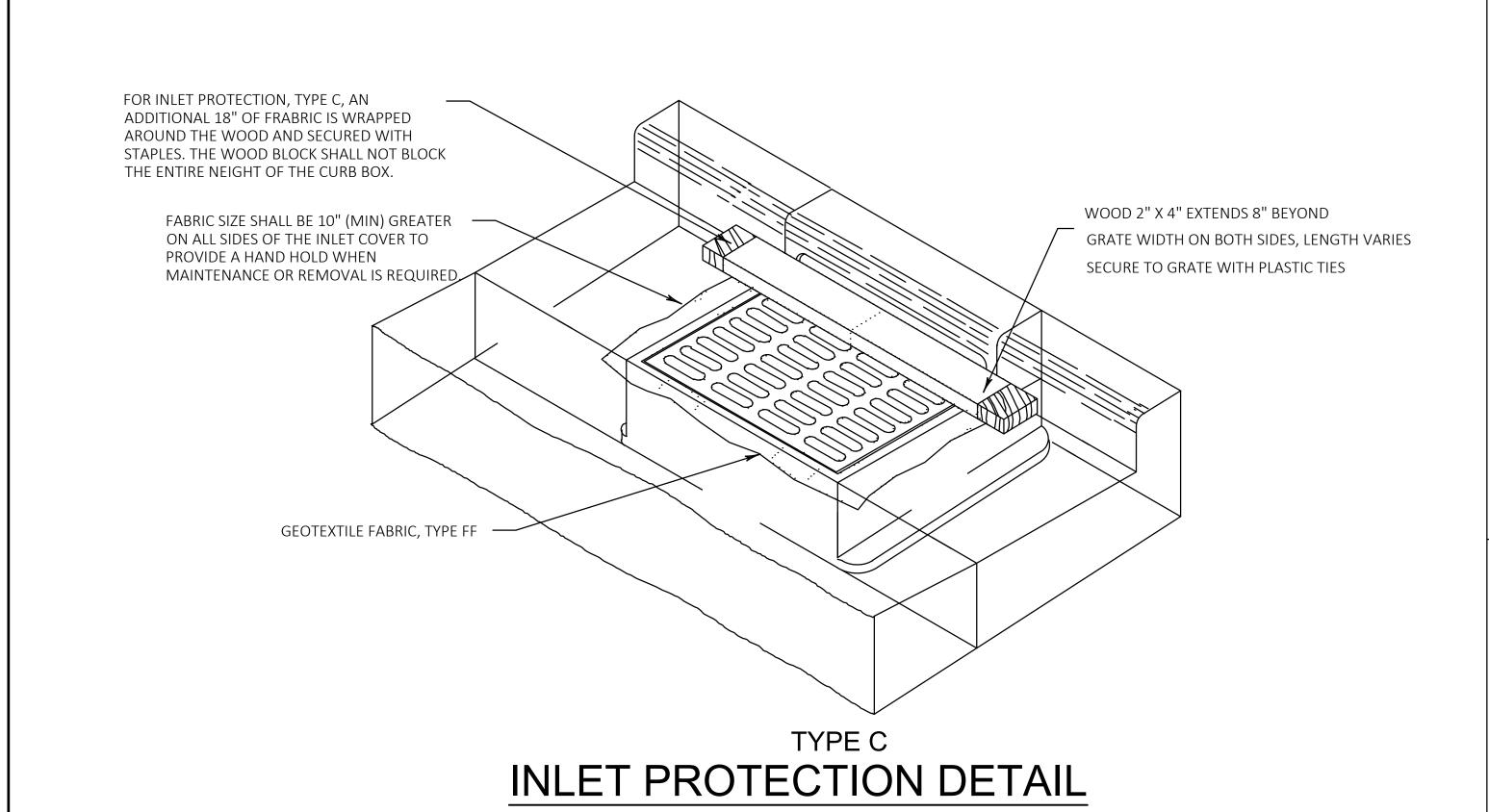
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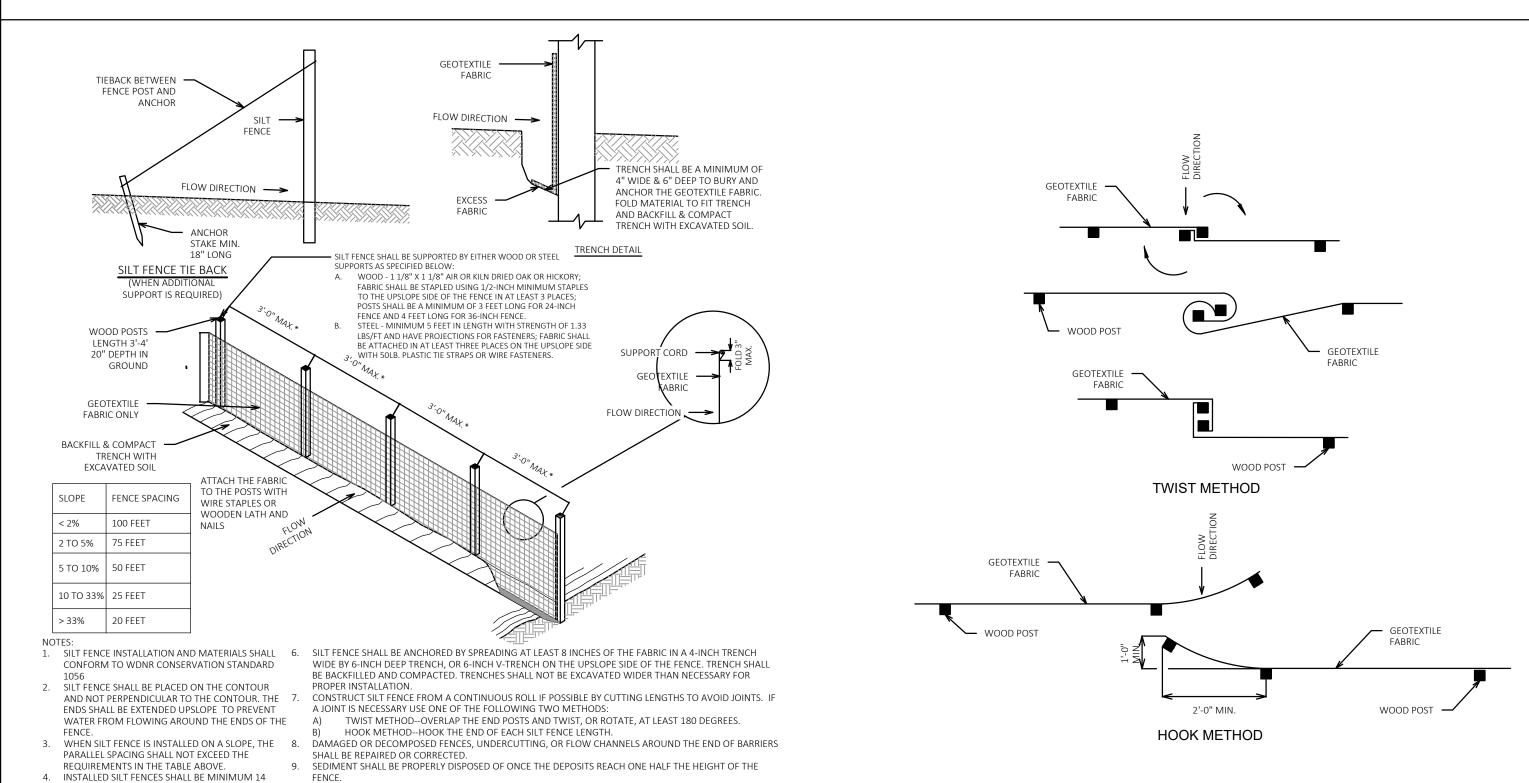
CHECKED BY: TM

SCALE: NOT TO SCALE

14

SHEET NUMBER





SILT FENCE DETAIL

INCHES HIGH AND A MAXIMUM OF 28 INCHES HIGH 10. SILT FENCES SHALL BE REMOVED ONCE THE DISTURBED AREA IS PERMANENTLY STABILIZED AND IS NO

. ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

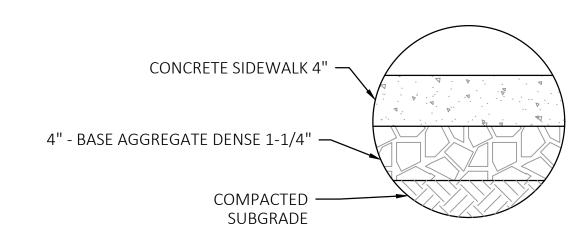
12. 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED. 3'-0" MAX FOR NON WOVEN FABRIC

LONGER SUSCEPTIBLE TO FROSION.

MEASURED FROM THE IJNSTALLED GROUND

EXTEND INTO THE GROUND AFTER INSTALLATION.

5. A MINIMUM OF 20 INCHES OF THE POST SHALL

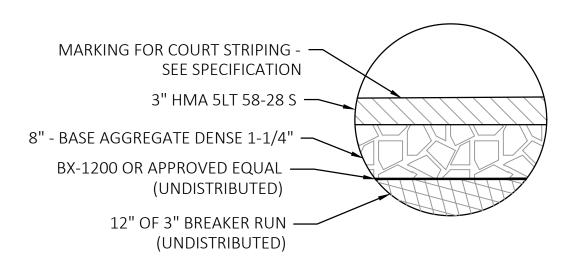


NOTES:

CONCRETE SIDEWALK SHALL BE 6
INCHES THICK THROUGH DRIVEWAYS
ON 6 INCH BASE AGGREGATE DENSE.

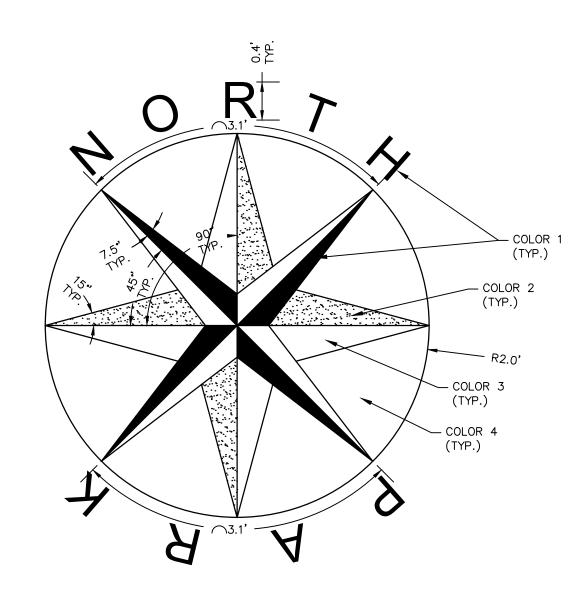
CONCRETE SIDEWALK ADJACENT TO CURB & GUTTER SHALL BE POURED AND FINISHED $\frac{1}{2}$ " HIGH AT THE TOP BACK OF CURB AND SIDEWALK INTERFACE.

CONCRETE SIDEWALK DETAIL



NOTES:
BASE AGGREGATE DENSE SHALL
EXTEND 1 FOOT BEYOND PAVEMENT
EDGE AND BE COVERED BY 3" TOPSOIL
TO GRADE

BASKETBALL COURT PAVEMENT DETAIL



CUSTOM STAMPED COLORED CONCRETE COMPASS FEATURE DETAIL

FOUR SEPARATE COLORS FOR THE COMPASS FEATURE ARE REQUIRED AND SHALL BE APPROVED BY OWNER PRIOR TO ORDERING AND CONSTRUCTION.

DAIE DESCRIPTION

ookfield, WI 53005-5938 (62) 781-1000

TOSPICE ENGINEERING

RACINE COUNTY, WI

OF

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DATE: 10/23/2023 SCALE: N.T.S

JOB NO. 1220400

PROJECT MANAGER:

JASON M. FEUCHT, P.E.

DESIGNED BY: RJW

CHECKED BY: JMF

SHEET NUMBER

15