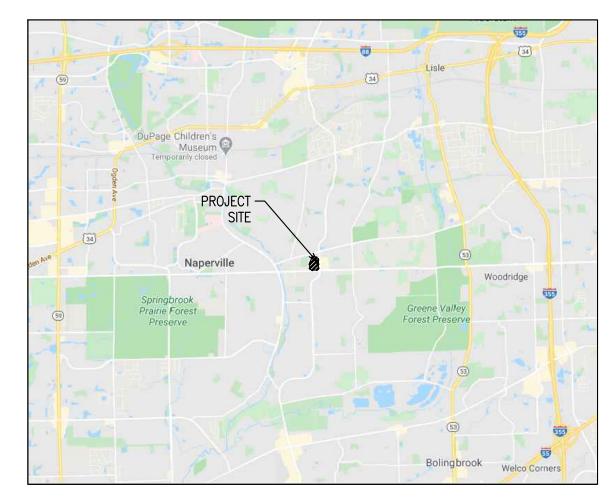
# F805a DUTCH BROS COFFEE

# SITE IMPROVEMENT PLANS

**FOR** 

# DUTCH BROS. COFFEE

# MARKET MEADOWS SHOPPING CENTER NAPERVILLE, ILLINOIS SHOREWOOD DEVELOPMENT GROUP LLC



LOCATION MAP

## SURVEY REFERENCE NOTE:

EXISTING CONDITIONS AND TOPOGRAPHY ARE SHOWN PER THE 'ALTA/NSPS LAND TITLE AND TOPOGRAPHIC SURVEY,' DATED MAY 5, 2025 AS PREPARED BY COMPASS SURVEYING.

## **BENCHMARK AND LOCATIONS:**

REFERENCE BENCHMARKS:

REFERENCE BENCHMARK #1: CITY OF NAPERVILLE SURVEY MONUMENT #626

BERNSTEN 3D TOP SECURITY MONUMENT. CONSISTING OF A 9/16" DIA. STAINLESS STEEL DATUM POINT ON THREADED 9/16" X 4' LONG ROD TOTALING (8') IN LENGTH WITH GREASED TOP SECURITY SLEEVE ENCLOSED IN SAND AND 6" PVC PIPE WITH BMAC 6ALUMINUM ACCESS COVER.

DATUM: NAVD88 ELEVATION = 705.82

REFERENCE BENCHMARK #2: CITY OF NAPERVILLE SURVEY MONUMENT #526

BERNSTEN 3D TOP SECURITY MONUMENT. CONSISTING OF A 9/16" DIA. STAINLESS STEEL DATUM POINT ON THREADED 9/16" X 4' LONG ROD TOTALING (8') IN LENGTH WITH GREASED TOP SECURITYSLEEVE ENCLOSED IN SAND AND 6" PVC PIPE WITH BMAC 6ALUMINUM

DATUM: NAVD88 ELEVATION = 681.48

SITE BENCHMARKS:

SITE BENCHMARK #1:

IE BENCHMARK #1.

NORTHWEST BONNET BOLT ON FIRE HYDRANT SOUTH OF MARKET STREET, WEST SIDE OF NAPER BOULEVARD

ELEVATION = 707.49

SITE BENCHMARK #2:

SOUTH BONNET BOLT ON FIRE HYDRANT NEAR THE SOUTHWEST CORNER OF THE INTERSECTION OF MARKET STREET AND NAPER BOULEVARD ELEVATION = 709.77

# DRAWING INDEX

SHEET	TITLE
C1 C2 C3 C4 C5 C6 C7 C8.0—C8.3	COVER SHEET OVERALL SITE PLAN EXISTING CONDITIONS AND DEMOLITION PLAN DIMENSIONAL CONTROL AND PAVING PLAN GRADING PLAN UTILITY PLAN EROSION CONTROL PLAN DETAILS GENERAL NOTES AND SPECIFICATIONS
C10	CITY OF NAPERVILLE GENERAL NOTES AND SPECIFICATIONS
L1.0-L1.2 E1-E3	FINAL LANDSCAPE PLAN (GRWA) ELECTRICAL AND PHOTOMETRIC SITE PLAN (KA)

# CONTACTS

CIVIL ENGINEER

JACOB & HEFNER ASSOCIATES, INC

1333 BUTTERFIELD ROAD, SUITE 300

DOWNERS GROVE, IL 60515

CONTACT: RYAN BLOCKER, P.E.

RBLOCKER@JACOBANDHEFNER.COM

(630) 652-4630

SURVEYOR
COMPASS SURVEYING LTD
2631 GINGER WOODS PARKWAY, SUITE 100
AURORA, IL 60502
CONTACT: DANIEL WALTER, P.L.S.
DWALTER@CLSURVEYING.COM
(630) 820-1000

OWNER/DEVELOPER
SHOREWOOD DEVELOPMENT GROUP
860 N MILWAUKEE AVENUE, SUITE 100
BUFFALO GROVE, IL 60089
CONTACT: RYAN FITZGERALD
RYAN@SHOREWOODDEVELOPMENTGROUP.COM

Ryan J. Blocker

ILLINOIS REGISTRATION NO. 062-060791

ENGINEER ONLY CERTIFIES SHEETS C1-C9

THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE ORIGINAL SIGNATURE, IMPRESSED SEAL, EXPIRATION DATE OF SEAL OF THE ENGINEER AND MARKED "FOR CONSTRUCTION"

**ENGINEER** 

RYAN J. BLOCKER
RBLOCKER@JHAINC.COM

EXPIRES 11/30/2025

(815) 245-6100

402 W LIBERTY DRIVE
WHEATON, IL 60187
CONTACT: TIMOTHY BALL
TBALL@GRWAINC.COM
(630) 668-7197

ELECTRICAL ENGINEER

GARY R. WEBER ASSOCIATES, INC.

LANDSCAPE ARCHITECT

ELECTRICAL ENGINEER

KORNACKI AND ASSOCIATES

2845 S. MOORLAND RD.

NEW BERLIN, WI 53151

CONTACT: DAVID KORNACKI, P.E.

(262) 784-3323

6/27/25



(48 HOURS NOTICE REQUIRED PRIOR TO DIGGING)

**~~►** 

700.50 ×

shorewood

DEVELOPMENT GROUP

**PROPOSED** 

**LEGEND** 

**DESCRIPTION** 

STORM SEWER
WATER MAIN (WITH SIZE)
SANITARY SEWER
FORCE MAIN
UNDERGROUND ELECTRIC

UNDERGROUND TELEPHONI
UNDERGROUND GAS

HIGH/NORMAL WATER LEVEL
SILT FENCE
RIGHT-OF-WAY

DEPRESSED CURB FOR RAMP/DRIVEWAY

FENCE LINE GUARD RAIL SANITARY MANHOLE STORM MANHOLE

STORM INLET
STORM CATCH BASIN

FIRE HYDRANT
GATE VALVE AND VAULT

STREET LIGHT

STREET LIGHT WITH MAST

TRANSFORMER

UTILITY POLE

SIGN

DRAINAGE DIRECTION

OVERFLOW ROUTE

SPOT GRADE

FINISHED FLOOR

TOP OF FOUNDATION

GROUND

EDGE OF PAVEMENT

BACK/TOP OF CURB

TOP OF SIDEWALK

TOP OF RETAINING WALL

BOTTOM OF RETAINING WALL

RIM FOR STRUCTURES

RISER FOR SANITARY SERVICE

INVERT FOR SEWERS

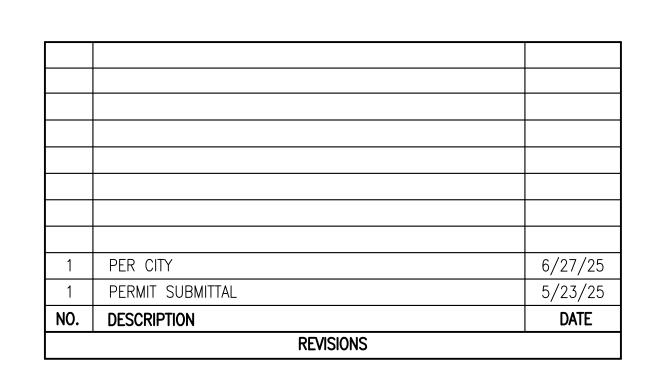
**EXISTING** 

•—

\_\_ 701.30

Know what's below.
Call before you dig.

Municipality: Naperville County: DuPage Section: 29 Township: 38N Range: 10E

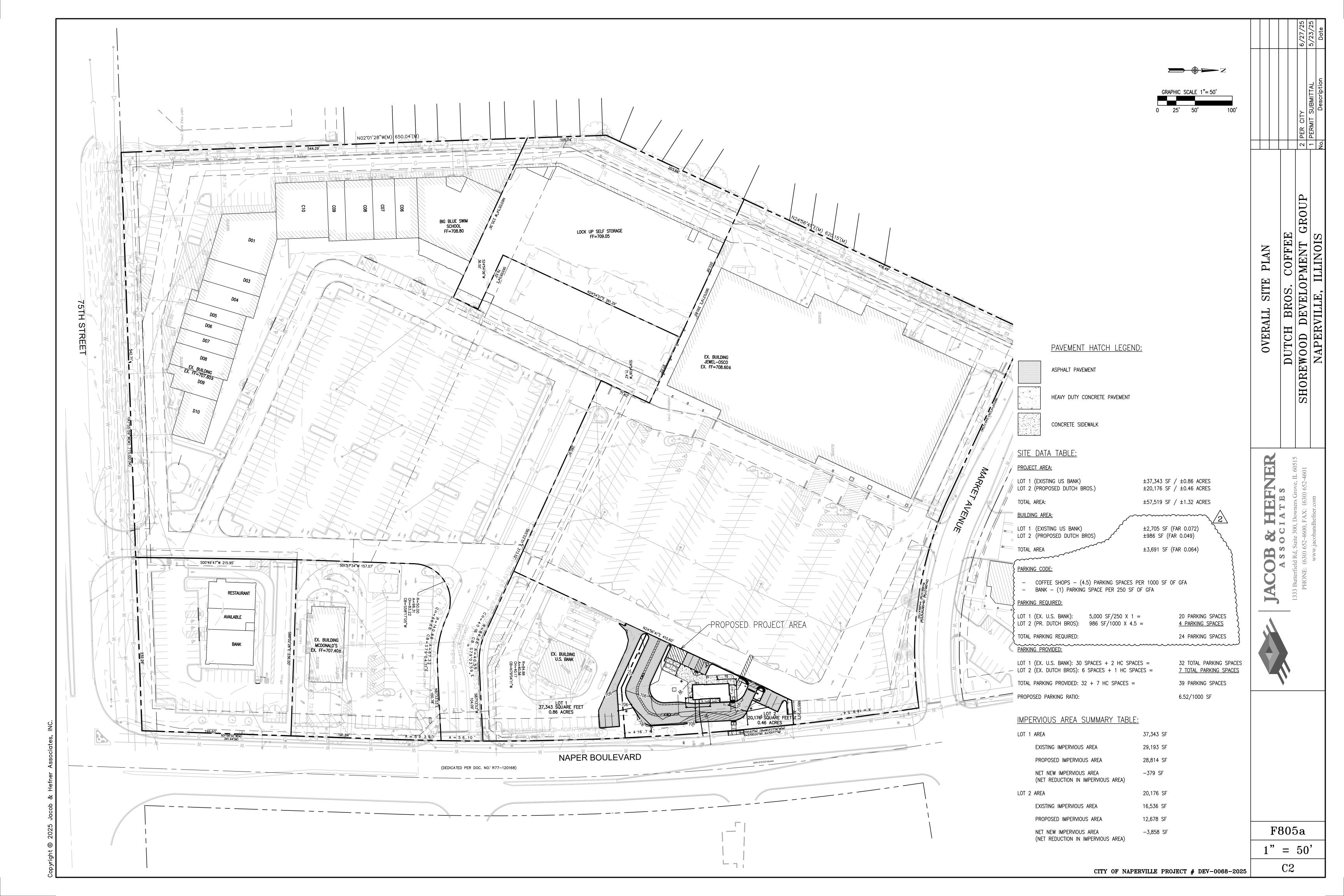


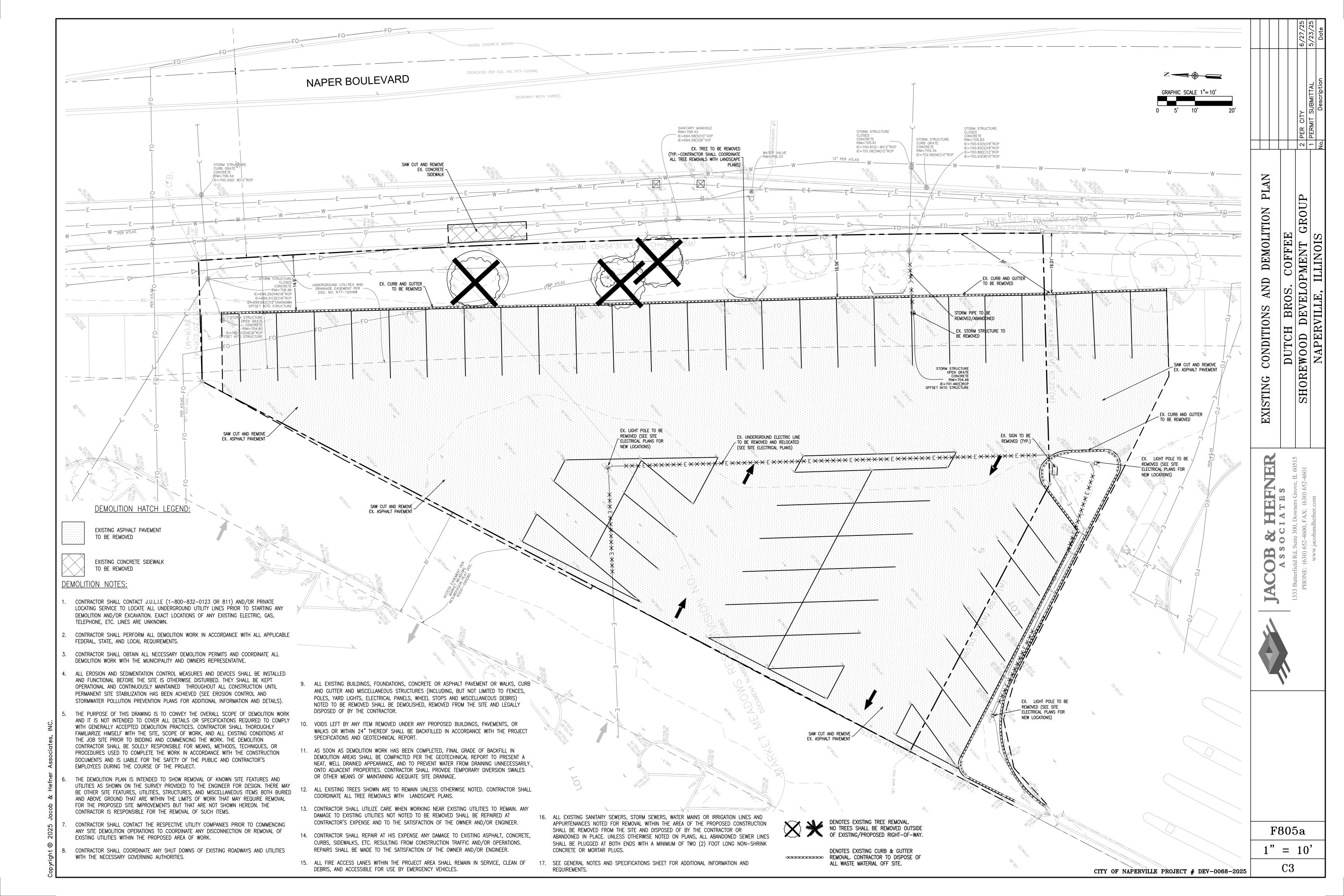
FOR REVIEW PURPOSES ONLY

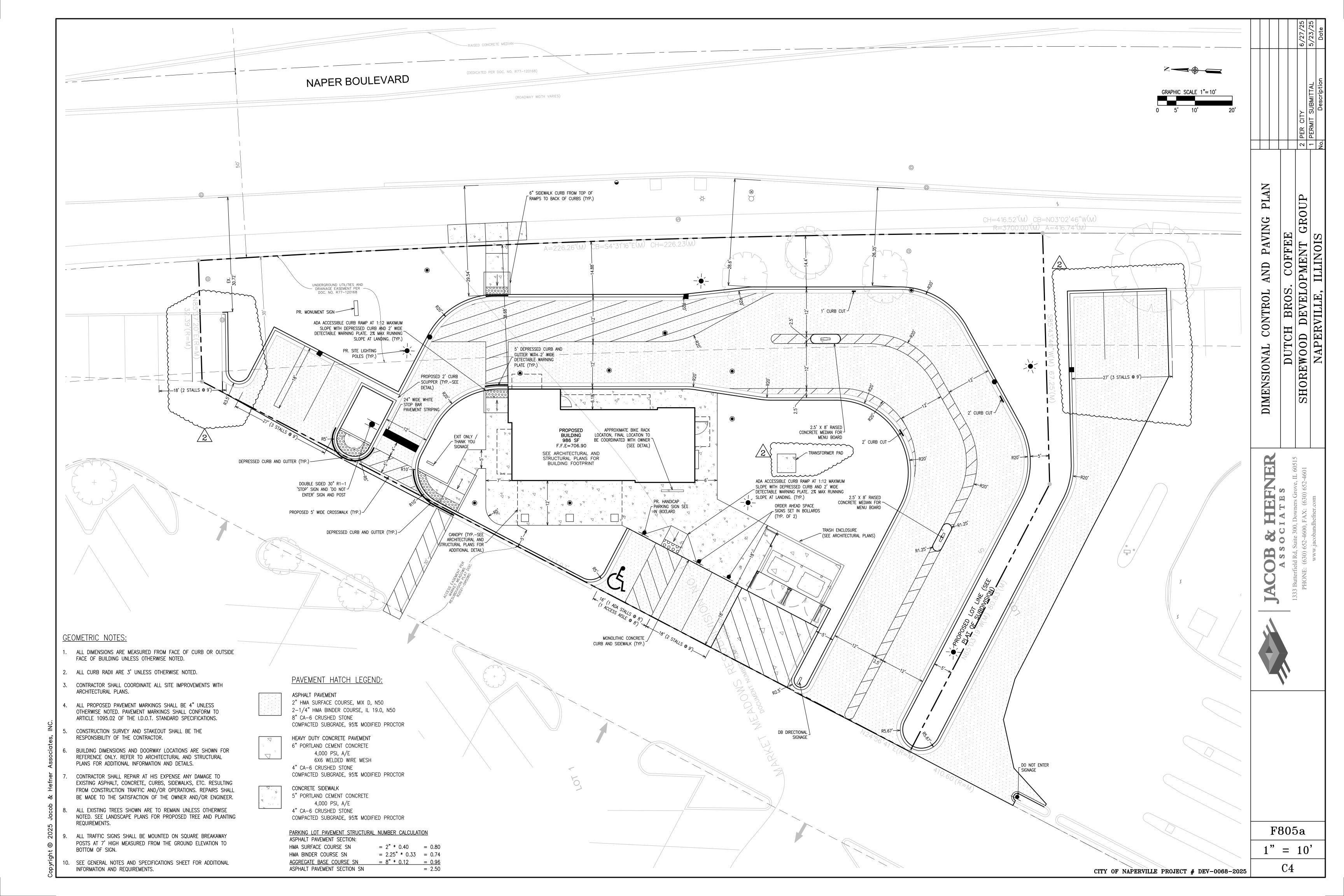


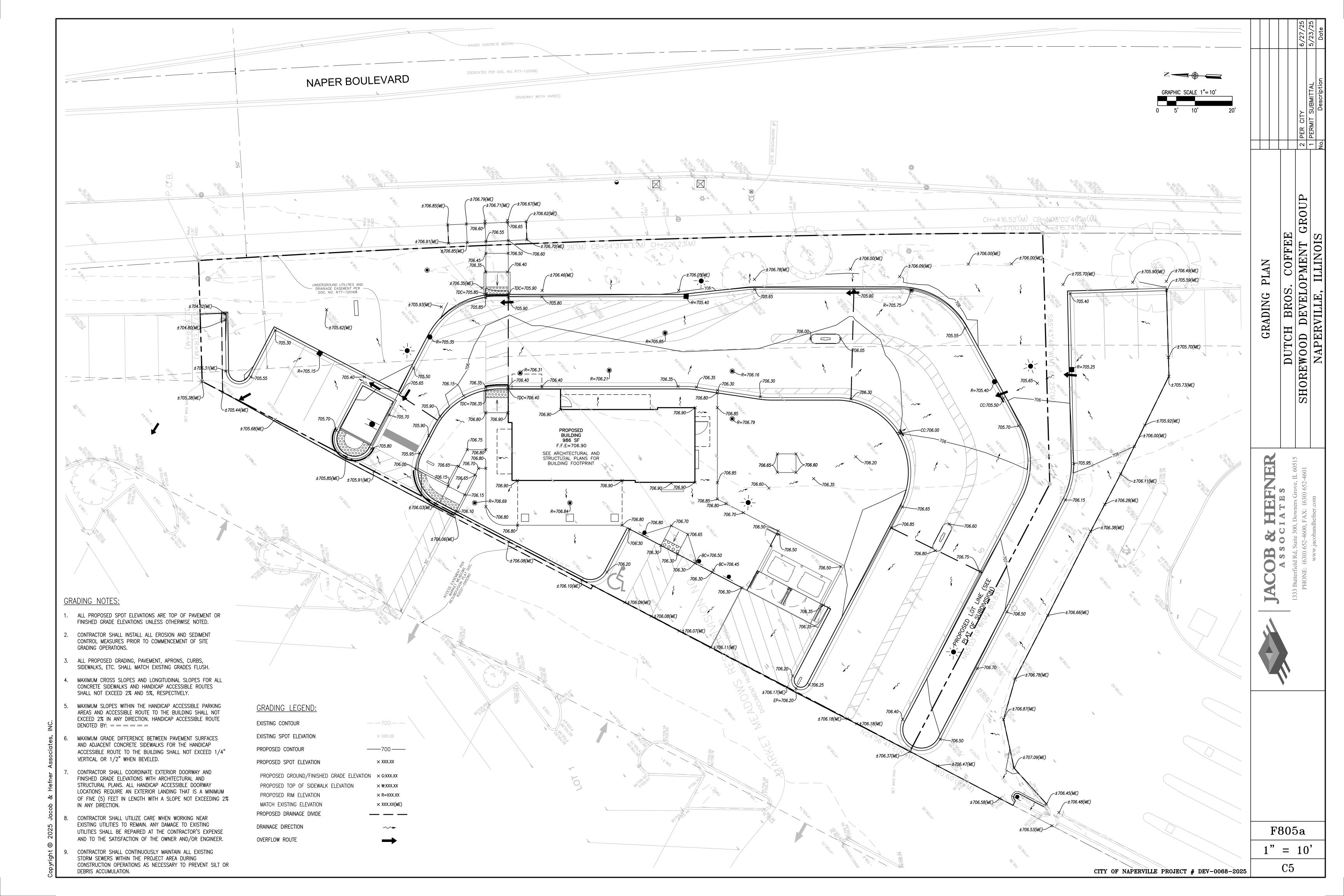
# JACOB & HEFNER ASSOCIATES

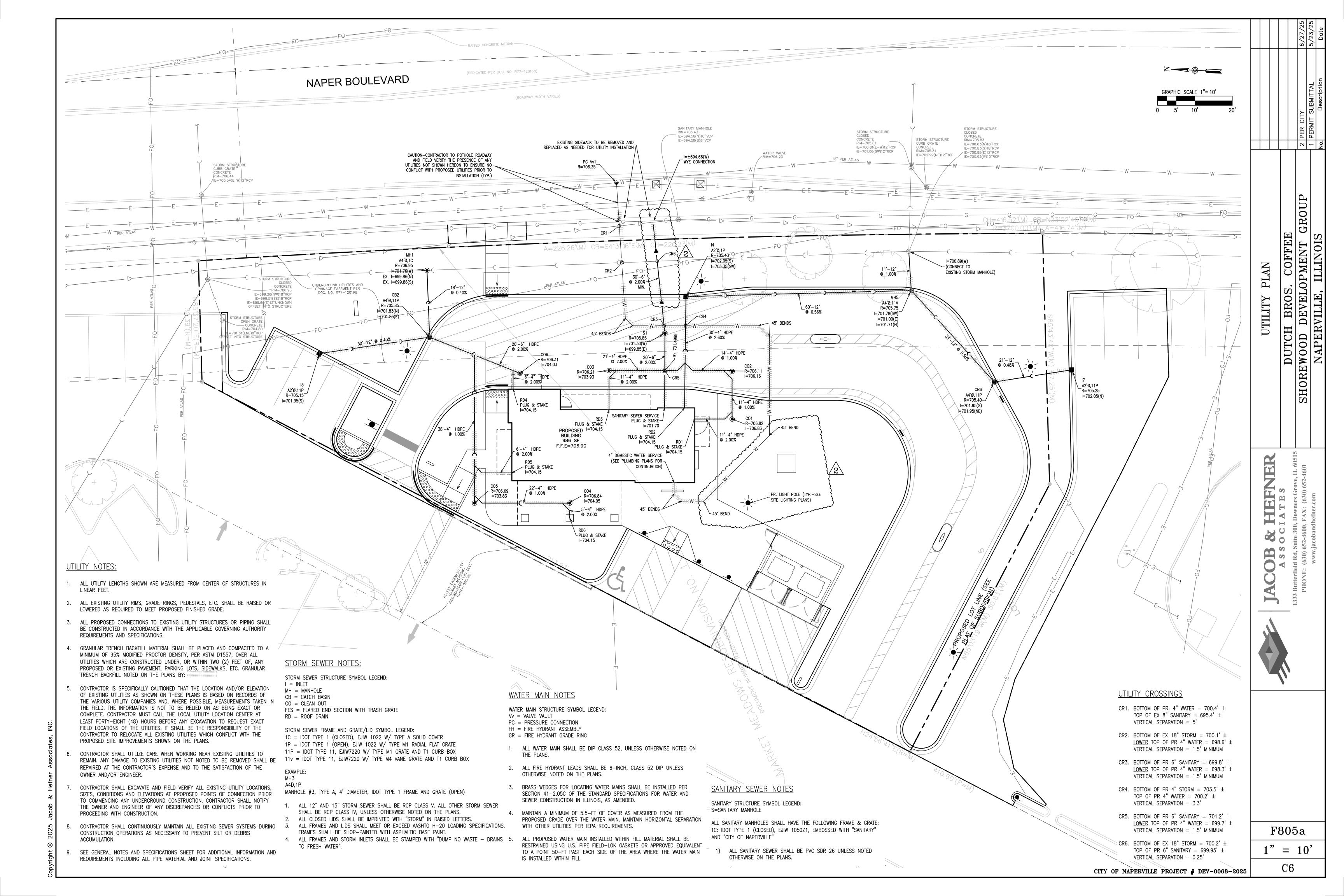
1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com

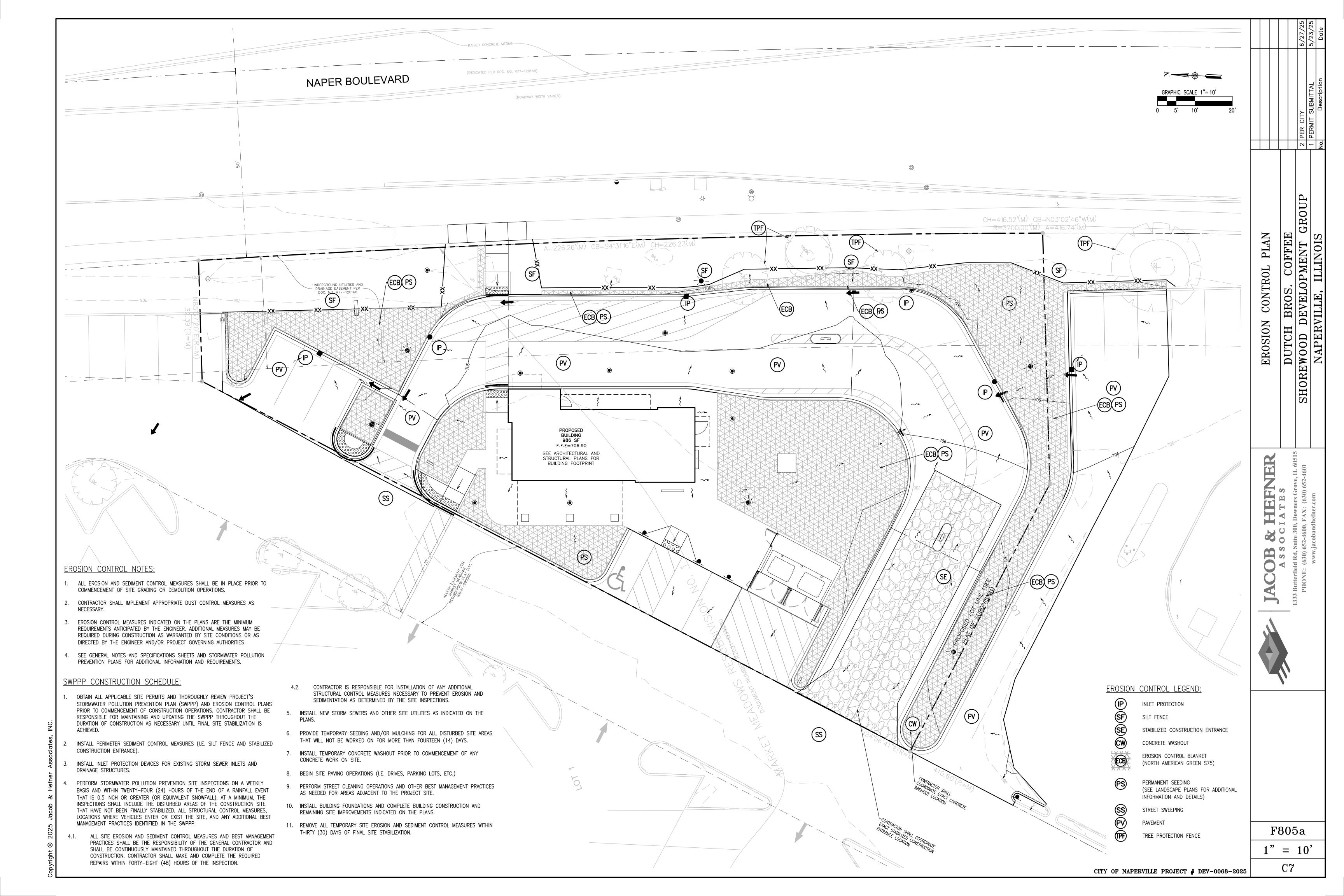


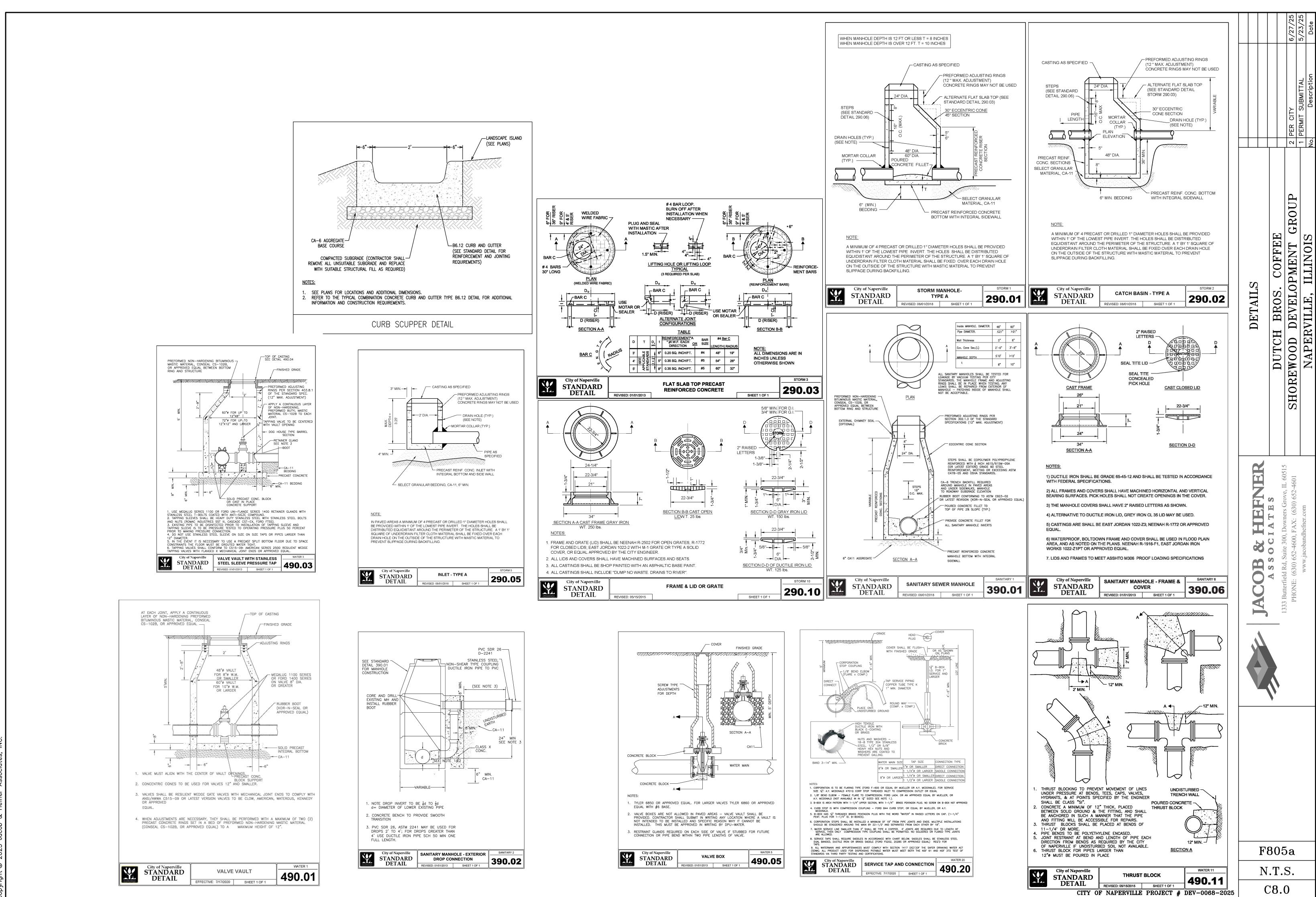




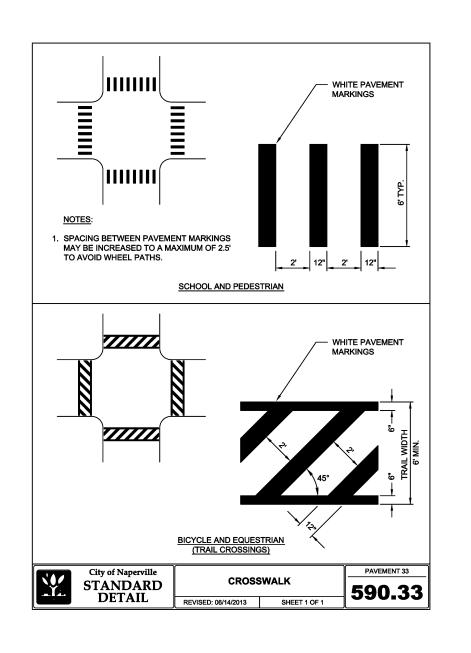


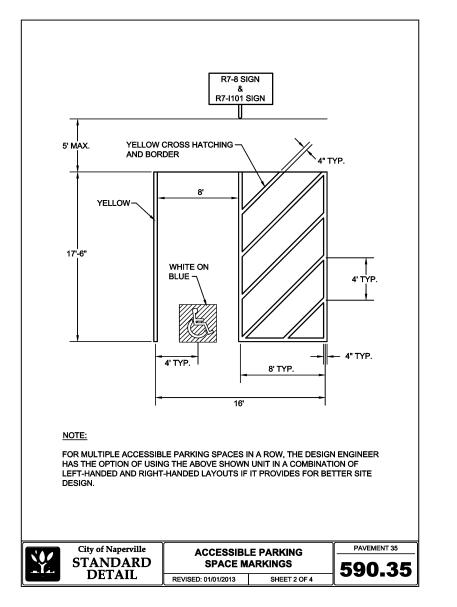


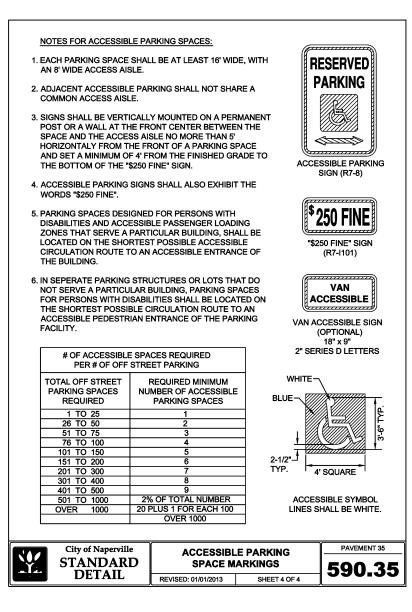


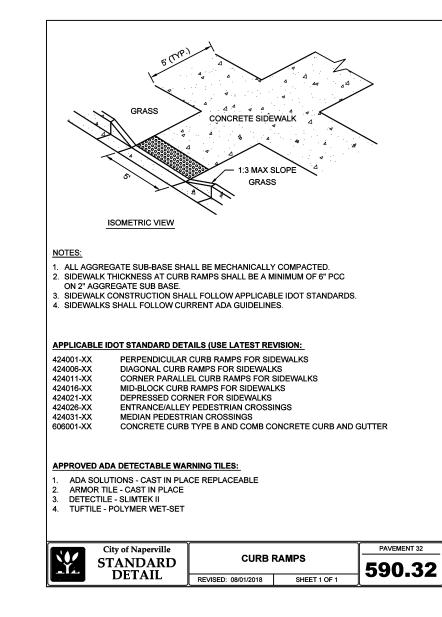


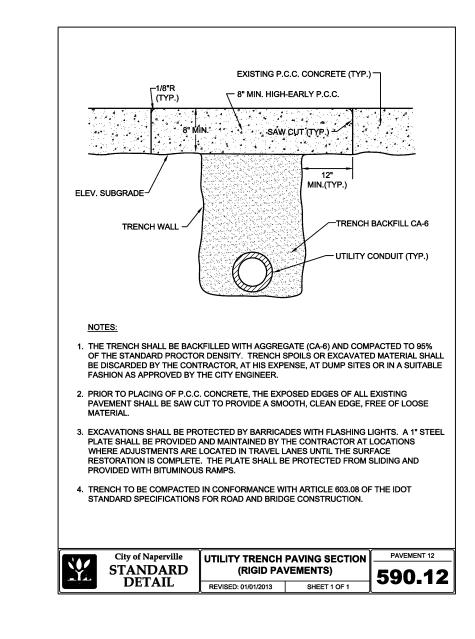
7075 Jacob & Hofred Accordates

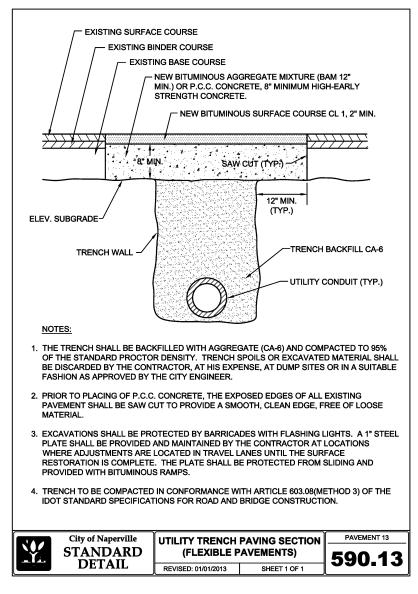


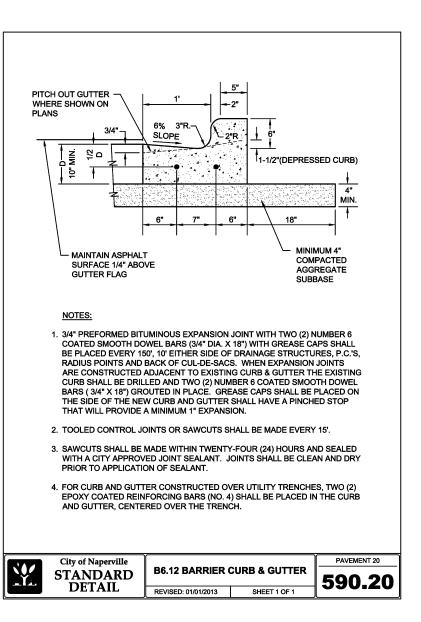


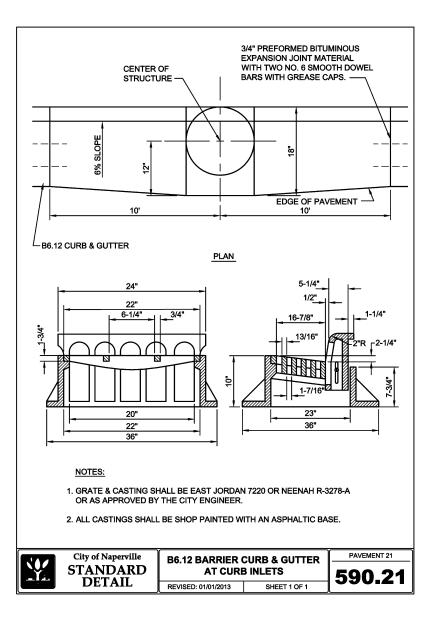


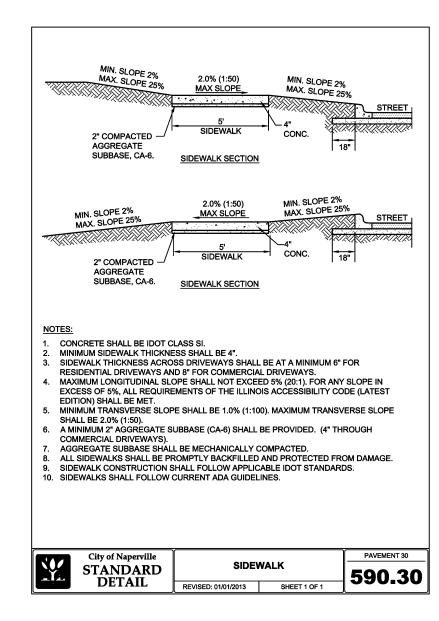












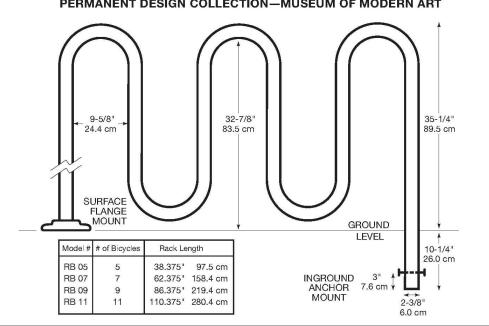
—SEE PLANS FOR TRAFFIC SIGN TYPE AND SIZE

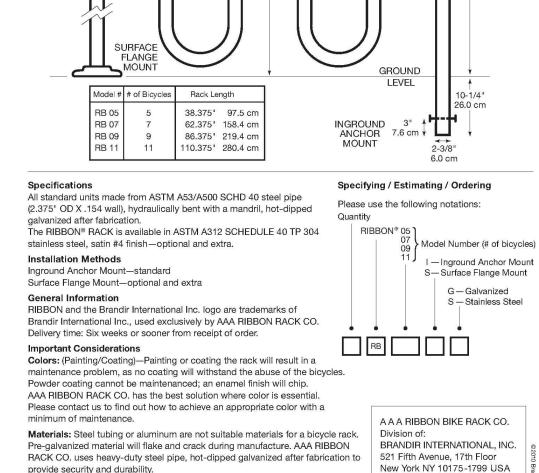
─GALVANIZED METAL U-CHANNEL

-CONCRETE FOOTING

CITY OF NAPERVILLE PROJECT # DEV-0068-2025



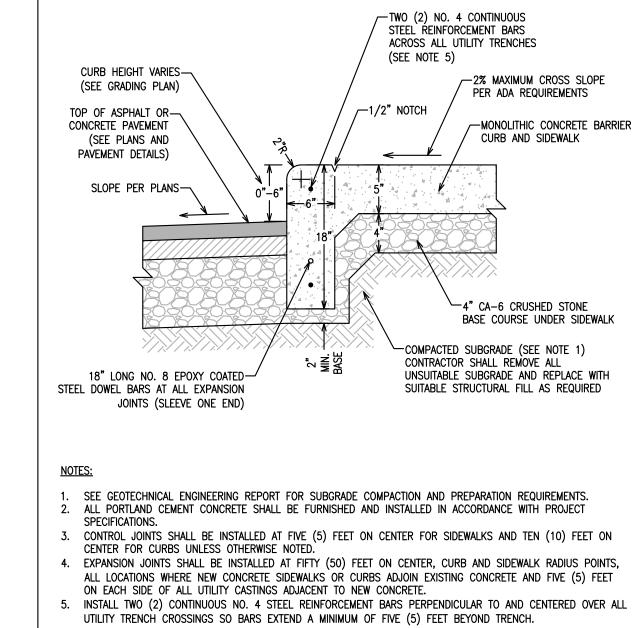


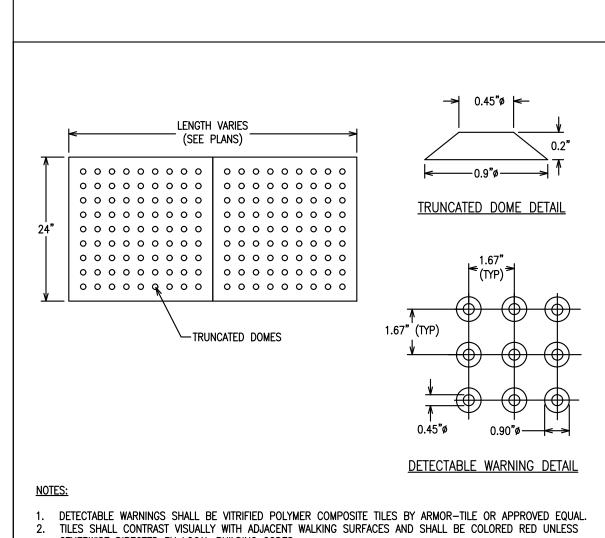


Manufacture: Hydraulic bending with a mandril, as used by AAA RIBBON RACK Phone: 800-849-3488

leaves an indentation; other methods flatten outer curves and crimp inner curves. | Web: ribbonrack.com

CO., insures smooth and aesthetic curves on the Ribbon® Rack. Press bending Email: info@ribbonrack.com



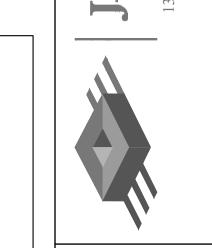


OTHERWISE DIRECTED BY LOCAL BUILDING CODES. 3. TILES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

INSTALLED WITH A MINIMUM HEIGHT OF FIVE (5) FEET ABOVE FINISHED PAVEMENT OR GRADE ELEVATION UNLESS OTHERWISE DIRECTED BY LOCAL BUILDING CODES. TRAFFIC SIGNS SHALL BE IN FURNISHED IN ACCORDANCE WITH THE LATEST U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." TRAFFIC SIGN DETAIL - GRASS AREA

. TRAFFIC SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2' FROM FACE OF CURB AND SIGNS SHALL BE

(SEE NOTE 1)



GROUI

DEVELOPMENT RVILLE, ILLINOIS

COFFEE

DUTCH

ORE

 $\mathbf{SH}$ 

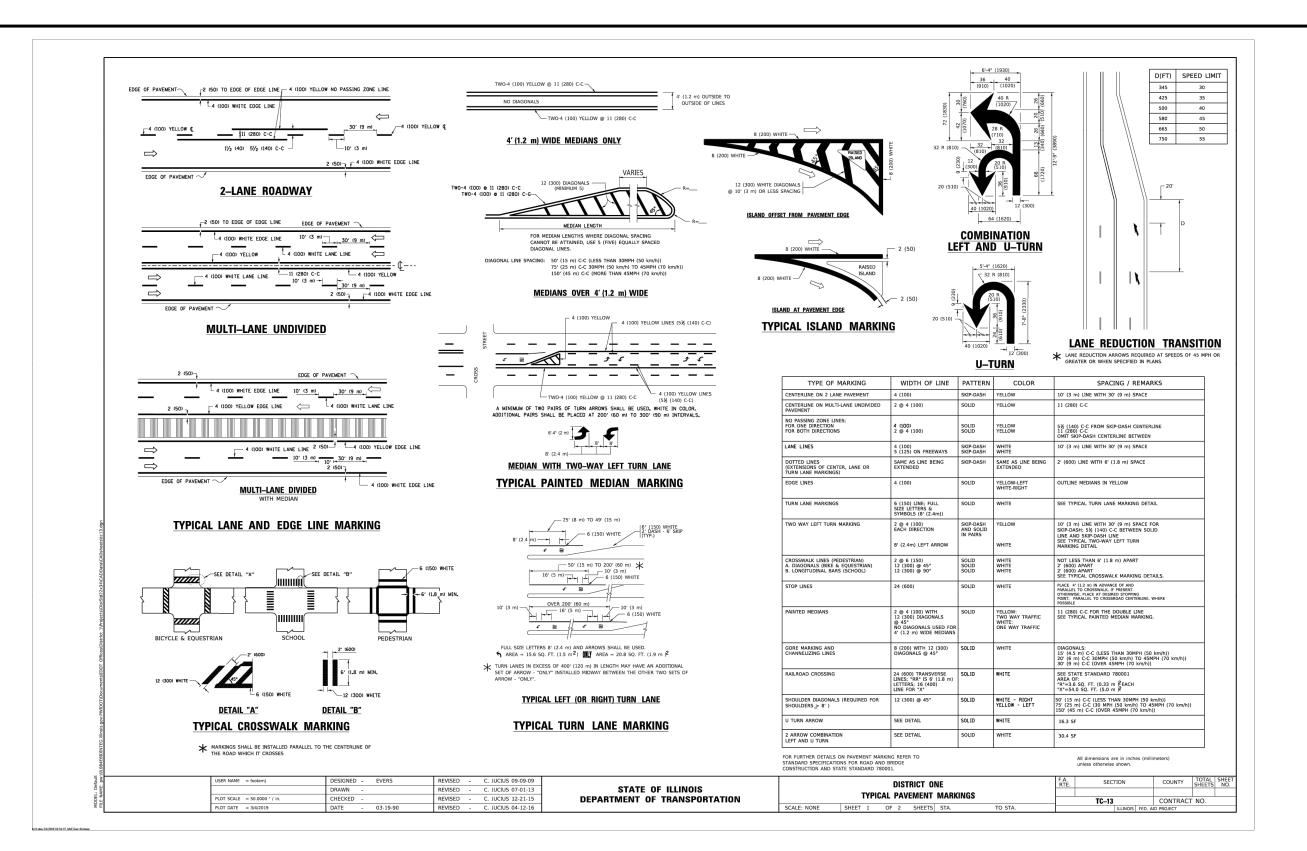
DETAILS

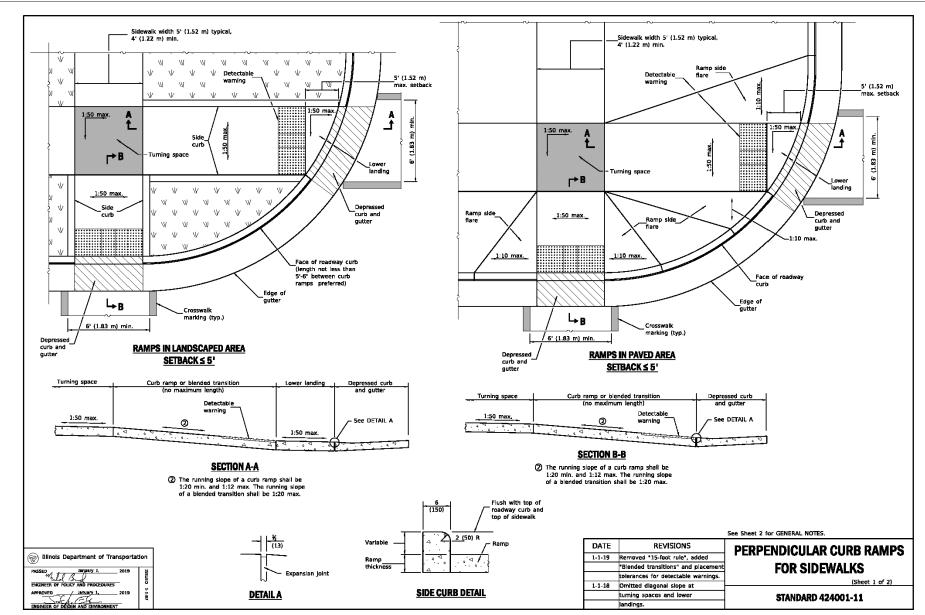
F805a N.T.S.

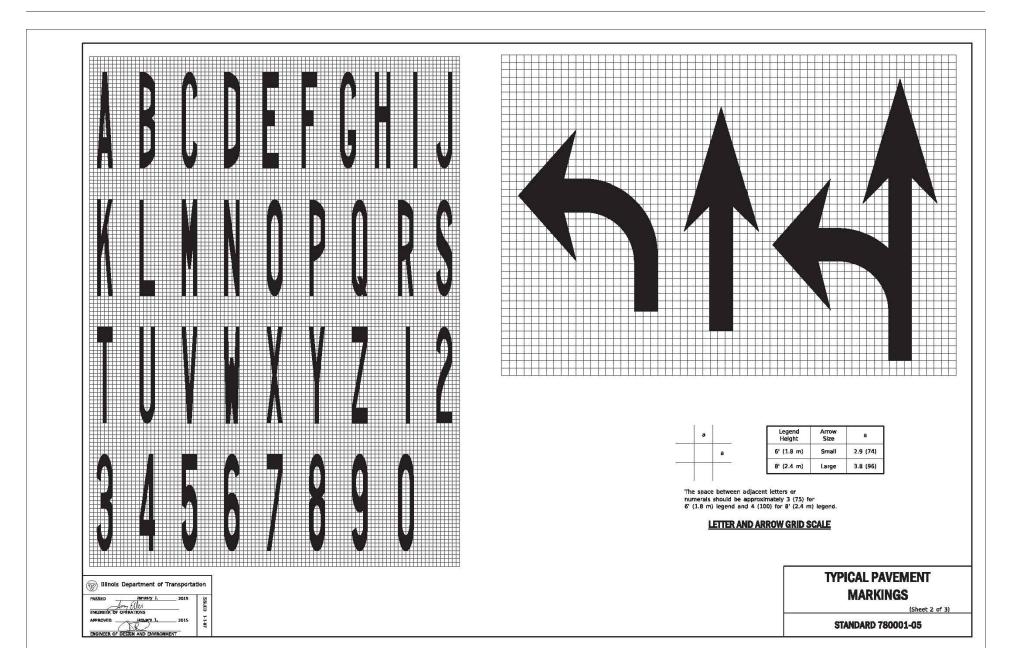
MONOLITHIC CONCRETE CURB AND SIDEWALK DETAIL

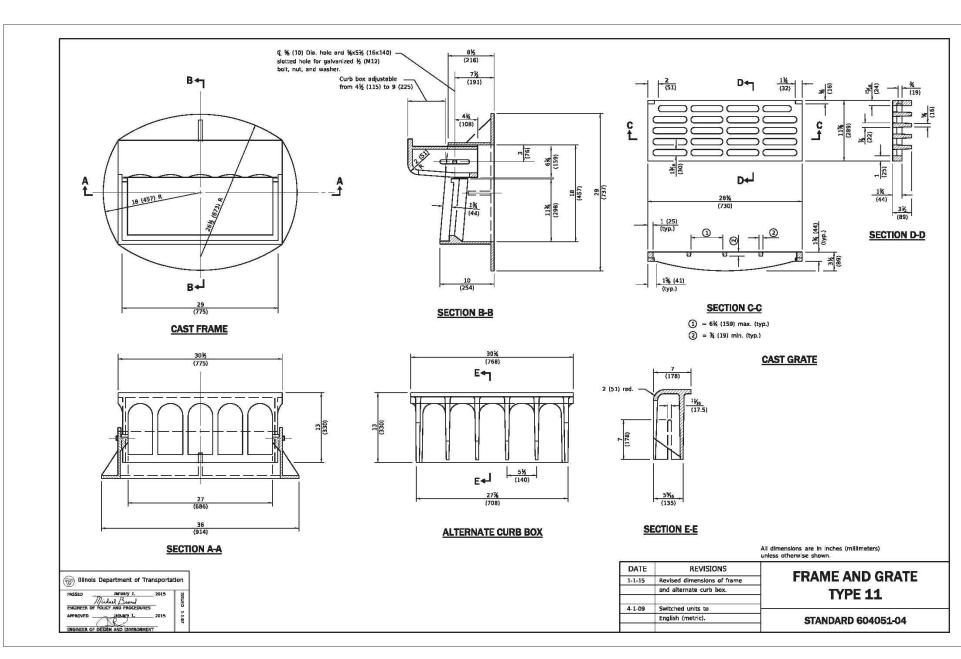
DETECTABLE WARNING DETAIL

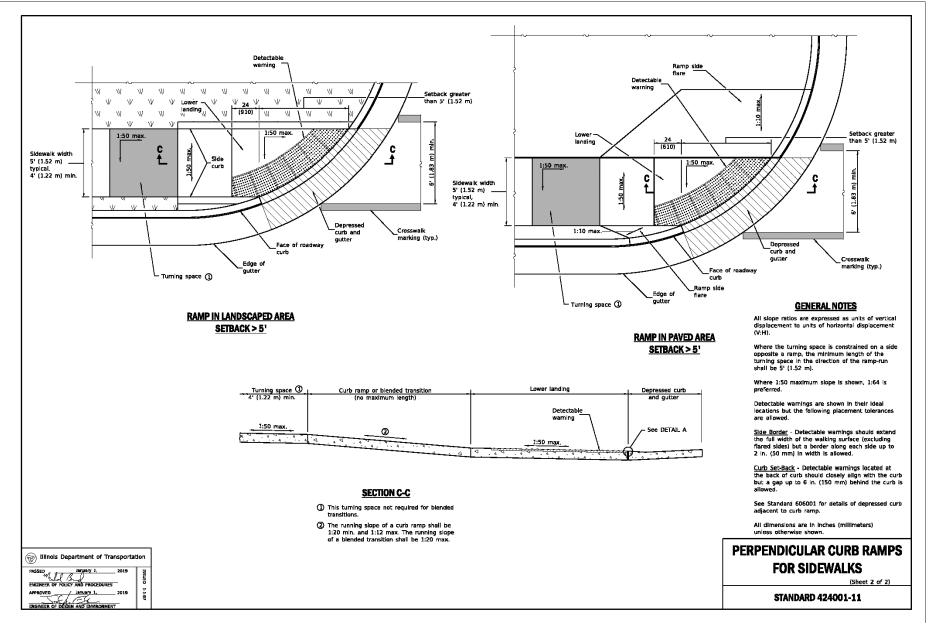
C8.1

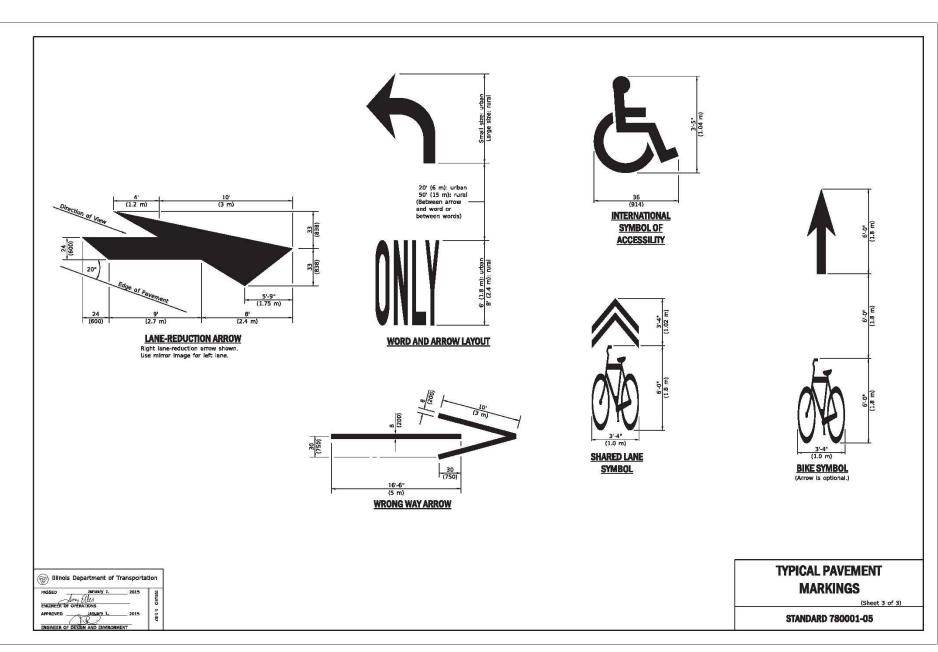












F805a N.T.S.

C8.2

| |2|-

H BROS. COFFEE

DEVELOPMENT GROUP
RVILLE, ILLINOIS

DUTCH WOOD I

ORE

 $\rm SH$ 

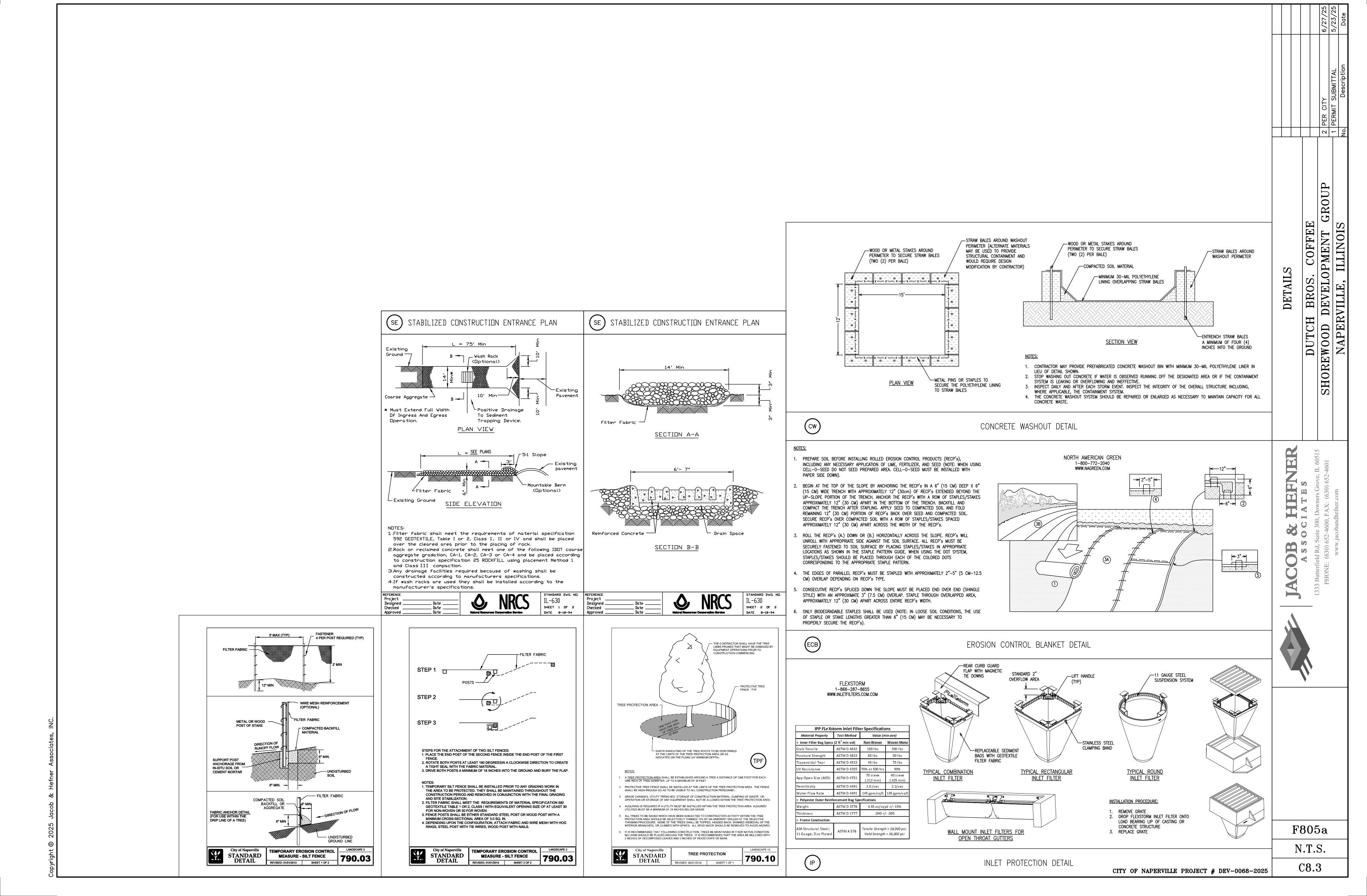
DETAILS

HEFNER

\$ 0 0

CITY OF NAPERVILLE PROJECT # DEV-0068-2025

ht© 2025 Jacob & Hefner ,



ON THE PLANS.

3. 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

2. ALL STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD

SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND IN

ACCORDANCE WITH THE CURRENT SUBDIVISION REGULATIONS OF THE MUNICIPALITY UNLESS OTHERWISE NOTED

- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123, AND THE
- 5. NO CONSTRUCTION PLAN 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 ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO 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
- 6. NOTIFICATION OF COMMENCING CONSTRUCTION

CONCLUSIVE.

BUT ARE CONSIDERED A PART OF THIS CONTRACT.

MUNICIPALITY FOR UTILITY LOCATIONS.

- 6.1. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES, EITHER MUNICIPALITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.
- 6.2. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES TO BE UNABLE TO VISIT SITE AND PERFORM TESTING WILL CAUSE CONTRACTOR TO SUSPEND OPERATION (PERTAINING TO TESTING) UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK TO BE BORNE BY CONTRACTOR.
- 7. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC. AT NO TIME SHALL ACCESS BE DENIED TO PROPERTIES SURROUNDING THE SITE.
- 8. ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
- 9. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET AT CONTRACTOR'S COST.
- 10. ALL FRAMES AND LIDS FOR STORM AND SANITARY SEWER STRUCTURES ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE SEWER 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 COUNTY UPON FINAL INSPECTION OF THE PROJECT. FINAL GRADES TO BE DETERMINED BY THE COUNTY AT THE TIME OF FINAL INSPECTION AND MAY VARY FROM PLAN GRADE.
- 11. ANY EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS OWN EXPENSE AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET, SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.
- 12. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC. SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. HE IS RESPONSIBLE FOR ANY PERMIT REQUIRED FOR SUCH DISPOSAL.
- 13. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR SHALL BE RESTORED TO PROPER OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BY OWNER AND MUNICIPALITY.
- 14. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS 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.
- 15. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED BY THE OWNER AND MUNICIPALITY.
- 16. UPON AWARDING OF THE CONTRACT AND WHEN REQUIRED BY THE MUNICIPALITY, THE CONTRACTOR SHALL FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND AND INSURANCE IN THE AMOUNT REQUIRED BY THE MUNICIPALITY GUARANTEEING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY.
- 17. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO KNOWN AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, JACOB AND HEFNER ASSOCIATES, INC. IS RESPONSIBLE TO RESOLVE THE CONFLICT. JACOB AND HEFNER ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE COST OF CONSTRUCTION.
- 18. OWNER SHALL OBTAIN EASEMENTS AND PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS.
- 19. THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED WORK.
- 20. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB IN ACCORDANCE WITH OSHA
- 21. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS, STAKES OR LATH SET BY SURVEYORS FOR CONSTRUCTION, AND OTHER MISCELLANEOUS 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 CLEAN—UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
- 22. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC AND PEDESTRIANS WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, LATEST EDITION AND IN CONFORMANCE WITH REGULATIONS OF THE MUNICIPALITY OR D.O.T.
- 23. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE COUNTY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE COUNTY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET.
- OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION.

24. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED

- 25. 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.
- 26. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.
- 27. 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.
- 28. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 29. ALL CUTS OVER ONE-INCH IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS
- OVER ONE—INCH IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.

  30. ANY DEWATERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED IN SEWER AND WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL (UPON APPROVAL OF THE OWNER AND/OR ENGINEER) OVER—EXCAVATE TO A DEPTH OF AT LEAST ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.
- 31. CONTRACTOR SHALL RECORD VIDEO OF THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.

32. TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE ALL UNDERGROUND UTILITIES WITHIN TWO FEET OF PROPOSED OR EXISTING PAVEMENTS, UTILITIES, BUILDINGS, AND SIDEWALKS. THE TRENCH BACKFILL SHALL BE DONE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS. THE TRENCH BACKFILL AND BEDDING MATERIAL SHALL CONSIST OF CRUSHED GRAVEL CONFORMING TO IDOT GRADATION CA-6.

GENERAL NOTES (CONTINUED)

- 33. WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE
- 34. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES. WHEREVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO STORM SEWERS. DAMAGE TO THE ROAD SUBGRADE OR LOT AREAS DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FLUSHING OR USING THE HYDRANT TO MAKE ALL NECESSARY REPAIRS AT HIS EXPENSE. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION WATER AT HIS EXPENSE.
- 35. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEER. INLET PROTECTION (INLET BASKETS) SHALL BE INSTALLED IN EACH STRUCTURE AS SOON AS THE STRUCTURE INSTALLATION IS COMPLETE. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION, WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS.
- 36. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ILLINOIS URBAN MANUAL AND SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF GRASS ACCEPTABLE TO THE ENGINEER HAS BEEN DEVELOPED.
- 37. UPON PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE FINAL RECORD DRAWINGS TO THE OWNER AND ENGINEER FOR REVIEW PRIOR TO ANY REQUEST FOR FINAL INSPECTION. AT A MINIMUM, THE RECORD DRAWINGS SHALL INDICATE THE FINAL LOCATION AND LAYOUT OF ALL SITE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, VERIFICATION OF ALL BUILDING PAD AND TOP OF FOUNDATION ELEVATIONS, UTILITY RIM AND INVERT ELEVATIONS, SPOT GRADE ELEVATIONS, LOCATIONS OF ALL WATER SERVICE B-BOXES, SANITARY SEWER SERVICES, AND STORM SEWER SERVICES AND SHALL INCORPORATE ALL FIELD DESIGN CHANGES APPROVED BY THE OWNER, ENGINEER AND/OR PROJECT GOVERNING AUTHORITY. RECORD DRAWINGS SHALL BE PREPARED BY A LICENSED PROFESSIONAL LAND SURVEYOR.

# EARTHWORK

- . TOPSOIL EXCAVATION
- A. TOPSOIL, ORGANIC MATERIAL, OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM AREAS REQUIRING STRUCTURAL FILL.
- B. PLACEMENT OF EXCAVATED MATERIAL SHALL BE DESIGNATED BY THE OWNER FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED OR AS FILL IN THE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL.
- C. EXCESS MATERIALS NOT UTILIZED AS FILL OR NOT STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- 2. EARTH EXCAVATION
  - A. EXCAVATION OF EARTH AND OTHER MATERIALS, WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL SHALL BE WITHIN A TOLERANCE OF 0.05 FEET FOR PADS AND PAVEMENT, AT 0.1 FEET +/- OF THE PLAN SUBGRADE ELEVATIONS. THE +/- TOLERANCE WITHIN PAVEMENT AREAS UTILIZING EARTH MATERIALS SHALL "BALANCE" AS PART OF THE FINE GRADING OPERATION.
  - B. PLACEMENT OF EARTH AND OTHER SUITABLE MATERIALS SHALL BE PLACED WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS WITHIN A TOLERANCE OF 0.1 FEET +/-. THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS, NOT EXCEED EIGHT INCHES IN THICKNESS. THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE THE REQUIRED COMPACTION. EARTH MATERIAL MAY BE PLACED WITHIN THOSE AREAS OF THE SITE NOT REQUIRING STRUCTURAL FILL, WITHIN THE PLAN SUBGRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, THE EARTH MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS. THE STRUCTURAL SUBGRADE AREA SHALL EXTEND TO THE ZONE OF INFLUENCE IN ALL FILL AREAS.
  - C. COMPACTION OF THE EARTH AND OTHER SUITABLE MATERIALS SHALL BE TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR DRY DENSITY. THIS INCLUDES AREAS WITHIN PROPOSED PAVEMENT AND BUILDING PAD LOCATIONS, SIDEWALKS, ETC. IN NON-STRUCTURAL FILL AREAS, 90% TO 95% OF THE MODIFIED PROCTOR DRY DENSITY IS REQUIRED.
- 3. UNSUITABLE MATERIAL
- A. UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL THAT IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION. IF IT IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION, IT SHALL BE REMOVED AND REPLACED WITH SELECT GRANULAR MATERIAL APPROVED BY THE SOILS ENGINEER. THE DECISION TO REMOVE SAID MATERIAL AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.
- THE GRADING CONTRACTORS RESPONSIBILITIES
- A. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
- B. SPREAD AND COMPACT UNIFORMLY ALL EXCESS TRENCH SPOIL, AS SPECIFIED, AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.
- C. SCARIFY AND COMPACT THE UPPER 12 INCHES OF THE SUITABLE SUBGRADE MATERIAL, AS SPECIFIED, IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.
- D. PROVIDE ADDITIONAL WATER TO DRY MATERIAL TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
- E. BACKFILL THE CURB AND GUTTER AFTER CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL.
- F. ACCOUNTABLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS DESCRIBED ON THE PLANS. ALL CONTRACTORS SHALL COMPLY WITH THE SWPPP AND NPDES REQUIREMENTS.
- G. PERFORM LIME STABILIZATION OF THE SUBGRADE MATERIAL IF REQUIRED BY THE SOILS ENGINEER.
- . TESTING AND FINAL ACCEPTANCE
- A. THE CONTRACTOR SHALL PROVIDE, AS A MINIMUM, A TANDEM AXLE TRUCK LOADED TO 14 TONS FOR PROOF ROLLING THE PAVEMENT SUBGRADE. PROOF ROLLING SHALL BE PERFORMED PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND BASE MATERIAL. THIS SHALL BE WITNESSED AND APPROVED BY THE MUNICIPAL ENGINEER AND OWNER.
- B. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING, SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL APPROVED BY THE SOILS CONSULTANT. PROOF ROLLING SHALL BE PERFORMED UNTIL THE SUBGRADE IS APPROVED BY THE MUNICIPAL ENGINEER, OWNER AND SOILS ENGINEER.
- C. THE WORK AREAS SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.

# 1. FINE GRADING

A. PRIOR TO THE CONSTRUCTION OF CURB AND GUTTER AND PLACEMENT OF THE BASE MATERIAL, THE STREETS SHALL BE FINE GRADED TO WITHIN 0.05 FEET OF FINAL SUBGRADE ELEVATION, TO A POINT TWO FEET BEYOND THE BACK OF CURB.

**PAVEMENT** 

- 2. CURB AND GUTTER
- A. THE TYPE OF THE CURB AND GUTTER SHALL BE AS DETAILED ON THE ENGINEERING PLANS.

B. THE CURBS SHALL BE BACKFILLED AFTER CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE

- C. THE STONE COST UNDER THE CURB AND GUTTER SHALL BE CONSIDERED INCIDENTAL.
- D. DEPRESSED CURBS FOR DRIVEWAYS AND HANDICAPPED RAMPS SHALL BE INSTALLED PER THE PLANS AND IDOT STANDARDS.
- 3. PAVEMENT
- A. THE PAVEMENT MATERIALS SHALL BE AS DETAILED ON THE ENGINEERING PLANS. DEPTHS SPECIFIED SHALL BE CONSIDERED THE MINIMUM COMPACTED THICKNESS.
- GENERAL

BITUMINOUS CONCRETE SURFACE COURSE.

- THE PAVING CONTRACTOR SHALL:

  A. REPAIR ANY BASE COURSE AND BINDER COURSE FAILURES PRIOR TO THE INSTALLATION OF THE FINAL
- B. SWEEP CLEAN THE BINDER COURSE PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE. ANY DAMAGE TO THE BINDER COURSE SHALL BE REPAIRED BY THE CONTRACTORS AT NO ADDITIONAL COST TO THE OWNER.
- D. PROVIDE CONSTRUCTION, EXPANSION AND CONTRACTION JOINTS FOR CURB AND GUTTER AND P.C.C. SIDEWALK PER IDOT STANDARDS AND MUNICIPAL STANDARDS.
- E. REMOVE ALL EXCESS MATERIALS AND DEBRIS. DISPOSE OF MATERIALS OFF-SITE AT NO ADDITIONAL COST
- TO THE OWNER.

  5. TESTING AND FINAL ACCEPTANCE
- A. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF ROLLED AND INSPECTED FOR UNSUITABLE LOCATIONS. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE REMOVED AND REPLACED WITH GRANULAR MATERIAL APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
- THE SUBGRADE SHALL HAVE A MINIMUM IBR VALUE OF 3.0.

  B. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED AND AS REQUIRED. THICKNESS VERIFICATION WILL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND
- C. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND VERIFICATION REQUIREMENTS CITED ABOVE.
- 6. METHOD OF MEASUREMENT

BRIDGE CONSTRUCTION."

- A. CURB AND GUTTER AND BASE COURSE SHALL BE MEASURED IN THE FIELD BY THE CONTRACTOR. THE QUANTITIES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION WHEN REQUESTED BY THE
- B. WHEN REQUESTED BY THE OWNER, DOCUMENTATION FOR THE INSTALLED BASE COURSE, BITUMINOUS CONCRETE BINDER AND SURFACE COURSE, SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION AS REQUIRED BY THE MUNICIPALITY. WHERE DIRECTED, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE BITUMINOUS CONCRETE WITH A CORE DRILL TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED BY THE METHOD DESCRIBED IN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."
- 7. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND SAFE TRAFFIC MANAGEMENT WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," LATEST EDITION. THIS SHALL BE IN ACCORDANCE WITH THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY.
- 8. LONGITUDINAL JOINT CONSTRUCTIO
- A. AS MANY LONGITUDINAL JOINTS AS PRACTICAL SHALL BE CLOSED AT THE END OF EACH DAY OF PAVING.
  A TACK COAT SHALL BE APPLIED TO THE "COLD" SIDE OF THE LONGITUDINAL JOINT PRIOR TO THE
  PLACEMENT OF THE HOT SIDE MAT.
- B. LONGITUDINAL JOINT CONSTRUCTION SHALL BE COMPLETED BEFORE THE "COLD" SIDE OF THE JOINT FALLS BELOW 200°F.
- C. IN THE EVENT THE TEMPERATURE OF THE "COLD" SIDE OF A JOINT FALLS BELOW 200°F PRIOR TO JOINT CONSTRUCTION COMPLETION, THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

  1. HEAT THE COLD SIDE JOINT TO 200°F EITHER BY MEANS OF A HAND TORCH OR AN INFRARED HEATER. THE CONTRACTOR SHALL AVOID BURNING THE ASPHALT DURING REHEATING.

  2. APPLY TACK COAT TO THE REHEATED JOINT PRIOR TO ASPHALT PLACEMENT.
- D. THE CONTRACTOR SHALL OFFSET SURFACE COURSE JOINTS FROM BINDER COURSE JOINTS, WHEREVER PRACTICABLE.
- 9. LONGITUDINAL JOINT DENSITY SPECIFICATIONS
- A. COMPLETED LONGITUDINAL JOINTS SHALL BE ASSESSED BASED ON SECTION 1030 OF THE STANDARD SPECIFICATIONS AND THE "HOT MIX ASPHALT DENSITY TESTING OF LONGITUDINAL JOINTS" (BDE) AS FOLLOWS:
- LONGITUDINAL JOINT DENSITY TESTING SHALL BE PERFORMED AT EACH RANDOM DENSITY TEST LOCATION. LONGITUDINAL JOINT TESTING SHALL BE LOCATED AT A DISTANCE EQUAL TO THE LIFT THICKNESS OR A MINIMUM OF TWO INCHES FROM EACH PAVEMENT EDGE; I.E. FOR A FOUR INCH LIFT, THE NEAR EDGE OF THE DENSITY GAUGE OR CORE BARREL SHALL BE WITHIN FOUR INCHES FROM THE EDGE OF PAVEMENT. LONGITUDINAL JOINT DENSITY TESTING SHALL BE PERFORMED USING EITHER A CORRELATED NUCLEAR GAUGE OR CORES.
- 1. CONFINED EDGE: EACH CONFINED EDGE DENSITY TEST SHALL BE REPRESENTED BY A ONE MINUTE NUCLEAR DENSITY READING OR A CORE DENSITY. THE TESTING SHALL BE INCLUDED IN THE AVERAGE OF DENSITY READINGS OR CORE DENSITIES TAKEN ACROSS THE MAT, WHICH REPRESENTS THE INDIVIDUAL TEST.
- 2. UNCONFINED EDGE: EACH UNCONFINED EDGE JOINT DENSITY TEST SHALL BE REPRESENTED BY AN AVERAGE OF THREE, ONE MINUTE DENSITY READINGS OR A SINGLE CORE DENSITY AT THE GIVEN DENSITY TEST LOCATION. THE TESTING SHALL MEET THE DENSITY REQUIREMENTS SPECIFIED HEREIN. THE THREE, ONE MINUTE READINGS SHALL BE SPACED TEN FEET APART LONGITUDINALLY ALONG THE UNCONFINED PAVEMENT EDGE AND CENTERED AT THE RANDOM DENSITY TEST LOCATION.

# DENSITY CONTROL LIMITS TABLE

MIXTURE COMPOSITION	PARAMETER	INDIVIDUAL TEST (INCLUDES CONFINED EDGES)	UNCONFINED EDGE JOINT DENSITY MINIMUM
IL-9.5, IL12.5	Ndesign >= 90	92.0-96.0%	90%
IL-9.5, IL9.5L, IL-12.5	Ndesign < 90	92.5-97.4%	90%
IL-19.0, IL-25.0	Ndesign >= 90	93.0-96.0%	90%
19.0, IL-19.0L, IL-25.0	Ndesign < 90	93.0-97.4%	90%
SMA	Ndesign = 50 & 80	93.5-97.4%	91%
ALL OTHER	Ndesign = 30	93.0-97.4%	90%

UNLESS NOTED OTHERWISE, ALL SANITARY SEWER SHALL BE RING—TITE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE. ALL PIPE SHALL CONFORM TO ASTM D-3139-98 WITH ELASTOMERIC RUBBER RING GASKET JOINTS CONFORMING TO ASTM D-2241-05. THE STANDARD DIMENSION RATIO (SDR) FOR SANITARY PIPE SHALL BE 26. WHERE SPECIFIED, PVC SDR 21 SANITARY SEWER SHALL BE RING—TITE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE, CONFORMING TO ASTM D-2241-05 WITH ELASTOMERIC RUBBER RING GASKET JOINTS CONFORMING TO ASTM D3139-98. THE PVC DR18 SANITARY SEWER SHALL CONFORM TO AWWA C900/C905, WITH RUBBER GASKET JOINTS CONFORMING TO AWWA C900/C905.

SANITARY SEWER

- 2. WHERE SANITARY SEWER PIPE IS NOTED AS PVC C900, THE PIPE SHALL BE IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) C900 WITH WATERTIGHT, PRESSURE RATED JOINTS CONFORMING TO ASTM D3139
- 3. CONNECTING SEWER PIPE OF DISSIMILAR MATERIAL IS NOT PERMITTED.
- 4. ALL FLOOR DRAINS SHALL CONNECT TO THE SANITARY SEWER. CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE COMPLETED UNTIL AUTHORIZED BY THE MUNICIPALITY.
- 5. ALL UNSUITABLE MATERIAL SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CRUSHED GRAVEL, CONFORMING TO ASTM D-2321, CL I.

7. PIPE BEDDING SHALL CONSIST OF A MINIMUM OF FOUR INCHES OF COMPACTED CRUSHED GRAVEL OR

- 6. COST FOR PIPE BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER.
- STONE FOR ALL SANITARY SEWERS. SANITARY SEWER PIPE SHALL HAVE TAMPED CRUSHED GRAVEL OR STONE COVER ABOVE THE TOP OF PIPE, TO A MINIMUM OF 12 INCHES. THE BEDDING AND TRENCH BACKFILL MATERIAL SHALL CONFORM TO IDOT GRADATION CA-11 AND INSTALLED PER ASTM D-2321 CLASS I.
- 8. WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH IEPA REQUIREMENTS AS SPECIFIED IN THE "WATER MAIN" SECTION.
- 9. NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE.
- 10. THE TESTING OF THE PIPE STRAIGHTNESS AND FIELD TESTING, SHALL BE IN ACCORDANCE WITH THE DEVELOPMENT CODE OF THE MUNICIPALITY.
- OR MONOLITHIC CONCRETE, CONFORMING TO ASTM C 478. THE STRUCTURE SHALL HAVE AN ECCENTRIC CONE INSTALLED, LINING UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE NEENAH R-1981-I AT 16 INCHES ON-CENTER.

11. SANITARY SEWER MANHOLES SHALL BE FOUR FOOT INNER DIAMETER, PRECAST REINFORCED CONCRETE RINGS

- 12. ALL SANITARY SEWER MANHOLE LIDS SHALL BE NEENAH R-1772-B OR APPROVED EQUAL. THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF SEALING WITH "O" RING GASKET. THE LIDS SHALL HAVE THE WORD "SANITARY" AND THE MUNICIPALITY NAME EMBOSSED ON THE LID.
- 13. ALL MANHOLE JOINTS SHALL BE SEALED WITH "O" RING JOINTS. NO MORE THAN EIGHT INCHES OF PRECAST CONCRETE ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. ALL MANHOLES SHALL HAVE MISSION COUPLING TYPE FITTINGS FOR PIPE CONNECTIONS.
- 14. DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS WHERE THE DIFFERENCE IN INVERT GRADES EXCEEDS TWO FEET OR AT LOCATIONS SHOWN ON THE PLANS. THE ENTIRE DROP ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BARREL.
- 15. INSPECTION OF MANHOLES: ALL MANHOLES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS. ALL VISIBLE LEAKAGE SHALL BE ELIMINATED BEFORE FINAL INSPECTION AND ACCEPTANCE.
   16. TESTING FOR ACCEPTANCE OF SANITARY SEWERS AND MANHOLES, INCLUDING SERVICE LINES, SHALL INCLUDE LOW PRESSURE AIR TEST AND DEFLECTION TEST PER STANDARD SPECIFICATIONS AND SUBDIVISION

REGULATIONS OF THE MUNICIPALITY. THE TESTS SHALL BE APPROVED BY THE MUNICIPALITY BEFORE

- ACCEPTANCE. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED FOR LEAKAGE IN ACCORDANCE WITH MUNICIPAL STANDARDS AND ASTM C 1244-02.

  17. TELEVISION TESTING OF ALL SANITARY SEWERS SHALL BE TELEVISED. A COPY OF THE RECORDING AND A WRITTEN REPORT SHALL BE SUBMITTED TO THE MUNICIPALITY FOR APPROVAL. THE REPORT SHALL INCLUDE STUB LOCATIONS, A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS AND IDENTIFICATION OF LENGTH
- FROM THE MANHOLE NUMBER SPECIFIED ON THE APPROVED PLANS. ALL COSTS SHALL BE INCIDENTAL TO THE WORK. TESTING SHALL BE WITNESSED AND APPROVED BY THE MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE LOCATION OF TELEVISION INSPECTION SHALL BE DESIGNATED BY THE MUNICIPAL ENGINEER.

  18. IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT. AT HIS OWN EXPENSE, THE CONTRACTOR SHALL

REPAIR OR REPLACE ALL MATERIALS AND WORKMANSHIP AS NECESSARY TO COMPLY WITH THE TEST

19. THE CERTIFICATION CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF THE TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARD METHOD OF TESTING FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING," ASTM STANDARD D-2412. TESTS SHALL ALSO BE CONDUCTED IN ACCORDANCE WITH ASTM D-3212, TO DEMONSTRATE JOINT PERFORMANCE AT 5% MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT, AS SPECIFIED IN ASTM D-3212 SPECIFICATIONS.

REQUIREMENTS.

# SOIL EROSION AND SEDIMENT CONTROL

1. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY, AND THE ILLINOIS URBAN MANUAL.

4. SILT FILTER FENCE SHALL BE PLACED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE MUNICIPALITY'S

- 2. BEFORE STARTING CLEARING AND SITE GRADING WORK, A CONSTRUCTION ENTRANCE AND SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS.
- 3. THE CONSTRUCTION ENTRANCE TO THE SITE SHALL BE STABILIZED WITH GRAVEL PRIOR TO BEGINNING ANY WORK ON THE SITE. THE ENTRANCE SHALL BE MAINTAINED PERIODICALLY FOR ITS EFFECTIVENESS TO REMOVE DIRT WHICH COULD LEAVE THE SITE BY CONSTRUCTION VEHICLES.
- ENGINEERING INSPECTOR TO PREVENT SEDIMENT FROM LEAVING THE SITE.

  5. STAKED SILT FENCE SHALL BE INSTALLED AND MAINTAINED AROUND THE INLETS AND CATCH BASINS AS
- SHOWN ON THE PLANS.

  6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
- 7. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER ANY STORM EVENT IN EXCESS OF 1/2". AN INSPECTION REPORT SHALL BE FILLED OUT EACH TIME AND SHALL BE KEPT IN A

BINDER AT JOB SITE AT ALL TIMES ALONG WITH NOI, NPDES PERMIT & SWPPP PLAN.

CONTROL SHALL BE PROVIDED FOR SUCH STOCKPILE.

CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.

- 8. AT THE COMPLETION OF THE PROJECT, ALL STORM SEWER PIPES AND STRUCTURES SHALL BE CLEANED AND FREE OF DIRT AND DEBRIS. THE SEDIMENTATION SHALL BE REMOVED FROM THE STORM SEWER SYSTEM AND SHALL NOT BE WASHED OUT IN THE STORM SEWER SYSTEM.
- 9. THE TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE EFFECTIVELY UNTIL ALL THE PERMANENT EROSION CONTROL ITEMS ARE FULLY FUNCTIONAL.
- 10. THE GUARANTEE PERIOD SHALL START AFTER ALL THE PERMANENT EROSION CONTROL MEASURES ARE FULLY FUNCTIONAL AND ACCEPTABLE TO OWNER OR HIS REPRESENTATIVE.
- 11. A. STOCKPILES OF ANY KIND SHALL NOT BE PLACED IN SPECIAL MANAGEMENT AREAS.

  B. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN SEVEN DAYS, THEN SEDIMENT AND EROSION
- 12. IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORM WATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION, THEN PROPERTIES AND SPECIAL MANAGEMENT AREAS DOWNSTREAM FROM SUCH DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
- 13. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
- 14. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED UNLESS A ½" OR GREATER RAINFALL EVENT IS FORECAST PRIOR TO 7 DAYS. IN THAT CASE THE PROPER SOIL PROTECTION SHALL BE INSTALLED IMMEDIATELY. STRIPPED AREAS NOT AT FINAL GRADE THAT WILL REMAIN UNDISTURBED FOR MORE THAN 7 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION UNLESS GRADING ACTIVITIES ARE RESUMED WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED. TEMPORARY COVER SHALL BE MAINTAINED
- 15. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING, IRRIGATION,
- OR FIRE HYDRANT FLUSHING SHALL BE FILTERED PRIOR TO LEAVING PROJECT SITE.

  16. GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASHDOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED OND PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL
- 17. ALL CONTRACTORS SHALL COMPLY WITH SWPPP PLAN AND NPDES REQUIREMENT & SHALL SIGN SWPPP ON FILE WITH OWNER OR GENERAL CONTRACTOR.

FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST 10 FEET.

WATER MAIN AND WATER SERVICES

MATERIAL SHALL BE IN CONFORMANCE WITH THE MUNICIPAL REGULATIONS.

5. A MINIMUM DEPTH OF COVER OF 6' SHALL BE MAINTAINED OVER THE WATER LINES.

ANSI A21.10 (AWWA C-110).

RECOMMENDATIONS AND AWWA SPECIFICATIONS

OR BETWEEN THE CURB STOP AND THE BUILDING.

CRUSHED GRAVEL OR STONE.

"WATER" CAST IN THE TOP.

1. HORIZONTAL SEPARATION:

2. VERTICAL SEPARATION:

METHODS SHALL BE FOLLOWED:

12. IEPA WATER MAIN PROTECTION

A. WATER MAINS:

TEES, ELBOWS, ETC.

WATER MAINS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), CLASS 52, CONFORMING TO AWWA

C-151 (ANSI A-21.51) WITH CEMENT MORTAR LINING AND BITUMINOUS SEAL COATING, CONFORMING TO

ANSI-A-21.4 (AWWA C-104). ALL WATER MAIN SHALL BE POLYETHYLENE ENCASED. THE POLYETHYLENE

2. THE JOINTS SHALL BE PUSH-ON JOINTS CONFORMING TO ANSI A-21.11 (AWWA C-111) AND ALL

RETAINING CLANDS SHALL BE SET SCREW OR MEGA-LUG TYPE. WATER MAIN FITTINGS SHALL BE OF

DUCTILE IRON WITH CEMENT MORTAR LINING AND SEAL COATING WITH PUSH-ON JOINTS, CONFORMING TO

THRUST BLOCKING OR RESTRAINED JOINTS SHALL BE INSTALLED ON ALL WATER MAINS AT ALL BENDS,

STANDARDS AND SHALL BE APPROVED BY THE MUNICIPALITY. EACH VALVE SHALL BE INSTALLED IN A

VALVE VAULT OR BOX OF SIZE SHOWN ON THE PLANS. THE LIDS SHALL BE NEENAH R-1713-B OR

APPROVED EQUAL. LETTERING ON THE CAST IRON FRAME AND LID SHALL INDICATE "WATER" AND THE

ALL WATER MAINS SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA

SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF FOUR HOURS.

THE ONLY ALLOWARIE LEAKAGE IS AS PREDETERMINED BY THE STANDARD SPECIFICATIONS FOR SEWER

AND WATER MAIN CONSTRUCTION IN ILLINOIS. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM

HYDRANTS SHALL CONFORM TO MEET ALL REQUIREMENTS DESCRIBED IN THE SUBDIVISION CONTROL

ORDINANCE OF THE MUNICIPALITY. THE HYDRANT SHALL FACE THE ROADWAY. THE FIRE HYDRANTS SHALL

BE PAINTED PER THE MUNICIPALITY. THE VALVE BOX LID SHALL HAVE WORD "WATER" EMBOSSED ON THE

BEDDING FOR ALL NEW WATER MAINS SHALL CONSIST OF A MINIMUM OF FOUR INCHES OF COMPACTED

WATER SERVICE LINES 2" IN DIAMETER OR SMALLER SHALL BE TYPE 'K' COPPER TUBING CONFORMING

11. WATER SERVICE BOXES SHALL BE OF SUFFICIENT LENGTH TO PERMIT THE TOP TO BE INSTALLED FLUSH

TO ASTM B88-58. NO COUPLINGS SHALL BE PERMITTED BETWEEN THE CORPORATION AND CURB STOPS

WITH THE FINISHED GRADE. EACH SERVICE BOX SHALL BE PROVIDED WITH A CAP WITH THE WORD

a) WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR

b) water mains may be laid closer than 10 feet to a sewer line when:

1) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET

BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

3) THE WATER MAIN IS IN A SEPARATE TRENCH.

EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICES CONNECTION.

2) THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER

c) BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF PIPE EQUIVALENT

TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET CONDITION

(a) OR (b) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM

a) A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE

DRAIN OR SEWER, WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR

SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT

PORTION OF THE WATER MAIN LOCATED WITHIN 10 FEET HORIZONTALLY OF ANY SEWER OR

b) IF IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (a) OR

1) THE STORM DRAIN SHALL BE CONSTRUCTED OF "O" RING JOINTS AND SANITARY SEWER

PLANS AND AS PER THE SPECIAL CROSSING DETAIL SHOWN ON THE DETAIL SHEET.

THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING

d) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE

2) THE WATER MAIN MAY BE ENCASED IN A WATERTIGHT CARRIER PIPE AS INDICATED ON THE

c) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND

THE WATER MAIN PASSES UNDER A SEWER OR DRAIN, THEN ONE OF THE FOLLOWING

SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATER MAIN STANDARDS.

DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO

7. FIRE HYDRANTS SHALL BE INSTALLED WITH AN AUXILIARY VALVE WITH CAST IRON VALVE BOX. FIRE

8. MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH CURRENT MANUFACTURER'S

4. DISTRIBUTION SYSTEM VALVES SHALL BE RESILIENT SEAT VALVE, CONFORMING TO AWWA C-509, LATEST

ALL STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR

WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, IN ADDITION TO THE SUBDIVISION CONTROL ORDINANCE

OTHERWISE SPECIFIED ON THE PLANS. MANHOLE JOINTS SHALL BE "O" RING GASKET JOINTS. A MAXIMUM OF

STORM SEWER

- OF THE MUNICIPALITY.

  2. UNLESS OTHERWISE NOTED ON THE PLANS, ALL STORM SEWERS SHALL BE REINFORCED CONCRETE CULVERT
- PIPE (RCP), ASTM C 76, WITH "O" RING RUBBER GASKET JOINTS CONFORMING TO ASTM C-443.

  3. HDPE STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE PER ASTM F2306 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D3212.
- 4. ALL STORM SEWER UNDERDRAIN PIPE SHALL BE PERFORATED ADS N-12 OR APPROVED EQUAL.
- ALL DOWNSPOUT AND FOOTING DRAINS SHALL BE DISCHARGED TO THE STORM SEWER SYSTEM OR ONTO THE GROUND.
   MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE FOUR FEET IN DIAMETER UNLESS
- SIX INCHES OF ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. THE ADJUSTING RINGS SHALL BE SET WITHIN A FULL MORTAR BED.

  7. ALL STORM SEWERS SHALL BE INSTALLED ON TYPE "A" BEDDING, 1/4 TO 3/4 INCH IN SIZE, WITH A MINIMUM THICKNESS EQUAL TO 1/4 OF THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR INCHES. USING BLOCKS OF ANY KIND FOR GRADE IS NOT PERMITTED. THE GRANULAR MATERIAL FOR BEDDING AND TRENCH BACKFILL MATERIAL SHALL CONFORM TO IDOT GRADATION CA—6. THE GRANULAR MATERIAL FOR BEDDING AND INITIAL BACKFILL OF FLEXIBLE PIPE SHALL BE NON—ANGULAR GRAVEL MATERIAL CONFORMING TO ASTM D—2321, CLASS I. THE COST OF BEDDING MATERIAL SHALL BE MERGED WITH THE
- PROCTOR DENSITY.

  8. THE FRAME AND GRATE OR CLOSED LID TYPE SHALL BE AS SPECIFIED ON THE UTILITY PLAN. THE MANHOLE LIDS SHALL BE A MACHINE SURFACED, NON-ROCKING DESIGN. ALL CASTINGS SHALL BE EMBOSSED WITH A FISH IMAGE AND "DUMP NO WASTE-DRAINS TO WATERWAYS" MESSAGE. THE CLOSED LIDS SHALL HAVE THE WORD "STORM" AND THE MUNICIPALITY NAME EMBOSSED ON THE LID. THE JOINT BETWEEN THE CONCRETE

UNIT PRICE BID FOR THE SEWER. THE BEDDING MATERIALS SHALL BE COMPACTED TO 95% OF THE MODIFIED

- SECTION AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND.

  9. ALL STORM SEWERS SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.
- 10. AFTER THE STORM SEWER STRUCTURE HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEER. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION NORMALLY ENTERING THE STORM SEWER SYSTEM FROM ADJECENT AND/OR UPSTREAM DRAINAGE AREAS.

NOTE:

IN THE EVENT OF A CONFLICT BETWEEN THE CITY OF NAPERVILLE GENERAL NOTES AND SPECIFICATIONS ON SHEET C10 AND THOSE LISTED ON THIS SHEET, THE CITY OF NAPERVILLE SPECIFICATIONS SHALL TAKE PRECEDENCE.

CITY OF NAPERVILLE PROJECT # DEV-0068-2025

GENERAL NOTES AN
L 60515
SHOREWOOD DEVE

NAPFRVILLE

| |2|-

M

TIO

PE

 $\mathbf{\Omega}$ 

TACOB & H
A S S O C I A
1333 Butterfield Rd, Suite 300, Dov

F805a

N.T.S.

 $_{25}$  C

DUPAGE COUNTY DIVISION OF TRANSPORTATION GENERAL NOTES AND SPECIFICATIONS	CITY OF NAPERVILLE GENERAL NOTES	CITY OF NAPERVILLE GEOMETRIC & PAVING NOTES	6/27/25 5/23/25 Date
<ol> <li>ALL CONSTRUCTION WITHIN THE COUNTY'S RIGHT-OF-WAY SHALL BE PERFORMED ACCORDING TO IDOT'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" (LATEST EDITION).</li> <li>DAILY LANE CLOSURES ARE PERMITTED BETWEEN 9:00 A.M. AND 4:00P P.M. ONLY. TRAFFIC CONTROL SHALL CONFORM TO IDOT'S HIGHWAY STANDARDS AND THE FHWA'S 'MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES' AND IDOT'S SUPPLEMENT AT ALL TIMES DURING CONSTRUCTION. TRAFFIC CONTROL SHALL INCLUDE USE OF ADVANCE WARNING LANE CLOSURE SIGNAGE, AN ARROW BOARD AND TYPE I BARRICADES WITH SANDBAGS.</li> <li>LANE CLOSURES ARE NOT PERMITTED ON COUNTY ROADWAYS DURING SNOWFALL OR WITHIN 2 HOURS PRIOR TO PREDICTED SNOWFALL OR PRECIPITATION CONDITIONS BETWEEN NOVEMBER 15 AND APRIL 15 FOR MAINTENANCE OF THE ROADWAY PAVEMENT BY COUNTY HIGHWAY MAINTENANCE DEPARTMENT STAFF AND EQUIPMENT.</li> </ol>	<ol> <li>THE OWNER OR HIS/HER/THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.</li> <li>ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION"S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).</li> <li>ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT—OF—WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.</li> <li>THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT—OF—WAY.</li> </ol>	<ol> <li>THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT—OF—WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.</li> <li>ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.</li> <li>THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.</li> </ol>	۲ SUBMITTAL Description
THE ROADWAY PAYEMENT BY COUNTY HIGHWAY MAINTENANCE DEPARTMENT STAFF AND EQUIPMENT.  4. DISTURBED AREAS OF THE RICHT-OF-WAY SHALL BE DRESSED WITH A MINIMUM OF 6" TOPSOIL AND CLASS 2A SALT TOLERANT SEED (WITH EROSION CONTROL BLANKET) OR SOD (SALT TOLERANT AND STAKED IN PLACE).  5. EROSION CONTROL MEASURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE DUPAGE COUNTY STORIMATER AND FLOODPLAIN ORDINANCE SPECIFICATIONS AT ALL TIMES.  6. EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN THE COUNTY'S RIGHT-OF-WAY AT ANY TIME WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COUNTY ENGINEER, OR HIS DULY AUTHORIZED ASSIGN.  7. PAVEMENT, CURB/GUTTER AND STORM STRUCTURES WITHIN THE COUNTY'S RIGHT-OF-WAY SHALL BE MAINTAINED FREE OF MUDJ/DEBRIS AT ALL TIMES AND SHALL BE CLEANED AS IS REQUIRED AND/OR AS DIRECTED BY DUPAGE COUNTY.  8. CONTACT DUPAGE COUNTY (630/407-6900) A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR INSPECTIONS OF AND AT THE COMPLETION OF THE DESCRIBED WORK WITHIN THE COUNTY'S RIGHT-OF-WAY.  9. TRENCH BACKFILL FOR NON-PAYED AREAS SHALL BE INSTALLED WITHIN HE COUNTY'S RIGHT-OF-WAY PER DUPAGE COUNTY'S STANDARD.  10. TRENCH BACKFILL BELOW EXISTING OR PROPOSED PAYEMENT, CURB/GUTTER AND/OR SIDEWALK SHALL BE INSTALLED WITHIN THE COUNTY'S RIGHT OF WAY,  12. BRICK MAIL BOXES ARE PROHIBITED IN THE COUNTY RIGHT OF WAY.  12. BRICK MAIL BOXES ARE PROHIBITED IN THE COUNTY RIGHT OF WAY.  14. THE DEVELOPER SHALL SUPPLY THE DPU—E ENGINEER WITH CATALOG CUTS FOR ALL CT/METER EQUIPMENT (INCLUDING BUT NOT LIMITED TO METER SOCKETS, PT CABINET, CT CABINET, DISCONNECT CABINET) AND TRANSFORMER PAD/VAIL THE CATALOG CUTS SHALL BE APPROVED BY DPU—E PRIOR TO PURCHASING.  2. THE CT/METER CABINET SHALL BE TOP FED.  3. CT/METER EQUIPMENT ARE LONG LEAD TIME ITEMS AND DPU—E SHALL NOT BE HELD RESPONSIBLE FOR DELAYS	WORK WITHIN THE PUBLIC RIGHT-OF-WAY.  5. THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.  6. PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.  7. THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROCECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURENTY HAS BEEN POSTED.  8. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6100 OPTION 1) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.  9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL—FREE NUMBER IS 800-892—0125. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES.  10. THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6100 OPTION 1 BETWEEN THE HOURS OF BOOMM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WELKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR COMPREVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.  11. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.  12. FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.  13. TRAFFIC SIGNALS AND THEIR ASSOCIATED EQUIPMENT UNDER THE JURISDICTION OF DUPAGE COUNTY ARE NOT INCLUDED IN THE JULIE SYSTEM.	4. THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.  5. WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, RECARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE. THE EXISTING ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS CORRECT.  1. ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (UNTCD), LATEST EDITION. TRAFFIC CONTROL USE EP PROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC FLOW. THIS INCLUDES, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND CONSTRUCTION VEHICLES ENTERING AND EXTRINING THE PURY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST FROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES, UNDIT HE WORK ZONE. SAID PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRIANS SO THAT THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.  2. PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRI	PERVILLE SPECIFICATIONS  CH BROS. COFFEE  D DEVELOPMENT GROUP  ERVILLE, ILLINOIS  No.
3. CT/METER EQUIPMENT ARE LONG LEAD TIME ITEMS AND DPU—E SHALL NOT BE HELD RESPONSIBLE FOR DELAYS RESULTING FROM NON—COMPLIANT CT/METER EQUIPMENT.  4. PLEASE PROVIDE NAME AND CONTACT INFORMATION FOR ELECTRICAL CONTRACTOR FOR THIS PROJECT.  5. DPUE WILL PROVIDE, INSTALL, AND MAINTAIN THE TRANSFORMERS, ALL PRIMARY (15MY) CABLE AND CONDUIT, AND THE METERS AND INSTRUMENT TRANSFORMERS. DPUE WILL ALSO MAKE THE FINAL, CONNECTIONS IN THE TRANSFORMERS ONCE THE INSPECTION IS COMPLETE AND THE BUILDING IS READY TO BE EMERGIZED.  6. THE DEVELOPER IS RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING THE TRANSFORM ER PAD/VAULT, ALL SERVICE LATERAL (48DY) CABLE AND CONDUIT, THE SERVICE ENTRANCE EQUIPMENT INCLUDING THE CT/METER CABINET, AND ALL BANKED METER SOCKETS.  7. THE DEVELOPER SHALL COORDINATE SITE CONSTRUCTION WITH DPU—E TO ALLOW ELECTRIC FACILITIES TO BE INSTALLED PRIOR TO PAVING AND CUBBING. DPU—E REQUIRES 30 WORKING DAYS ADVANCE WRITTEN NOTICE PRIOR TO PAVING AND TO ALLOW BENT THE INSTALLATION OF ELECTRIC FACILITIES. CRADE ELEVATION MUST BE WITHIN 4" OF FINAL GRADING BEFORE ELECTRIC FACILITIES CAN BE INSTALLED.  6. ELECTRIC FACILITIES SHALL BE INSTALLED PURSUANT TO SECTION 8—1C—TRY OF NAPERVILLE MUNICIPAL CODE, WHICH REQUIRES A CONSTRUCTION FEE PAYMENT FOR INSTALLATION OF ELECTRIC FACILITIES.  7. AT ALL TIMES, THE CUSTOMER SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING A SUITABLE APPROACH TO THE METER LOCATION, WITH NO DESTRUCTIONS WITHIN FOUR (4") FEET OF THE FRONT AND TWO (2") FEET OF THE SIDES OF THE METER. PER NAPERVILLE SERVICE RULES AND POLICLES 22.2.1.2.  8. CLEARANCE TO TRANSFORMER PAD SHALL BE 5' FROM ALL SIDES, 10" FROM FRONT, AND THE AREA ABOVE MUST BE COMPLETELY CLEAR OF CONSTRUCTION NOT TRESS. SHRIBS, OR OTHER OBSTACLES WILL BE ALLOWED WITHIN THIS APEA TRANSFORMER PAD SHALL MAINTAIN MINIMUM CLEARANCE OF 20" FROM ERGES POINTS. PER DPUE SPECIFICATIONS CIO—2130 AND C30—0016.  8. LECTRIC PROVINCE AND AND THE OF THE WORK PROJECTED DAY THE DEVELOPMENT SET PER PROPORAL THE PROPORAL THE PROPORAL THE COMPLETE A	ENGINEER.  2. THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERTY REPOUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERTY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.  3. THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS. WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED:  3.a. REINFORCED CONCRETE PIPE (RCP) — REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, NO R V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, NO R V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATION EXCEPTION OF THE CITY ENCINERER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, NO R V. BITUMINOUS MATERIAL SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, NO R V. BITUMINOUS MATERIAL SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, NO R V. BITUMINOUS MATERIAL SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, NO R V. BITUMINOUS MATERIAL SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, NO R V. BITUMINOUS MATERIAL SHALL CONFORM TO ASTM DESIGNATION C 783. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO MY 294, PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO ME252 AND M 294, PIPE AND FITTINGS SHALL BE MADE FROM AND DESCRIBED IN ASTM DA 3350, RUBBER GASKET JOINTS SHALL BE USED.  4. BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE 1/4 INCH TO 1 INCH IN SIZE. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL BE SECED.  5. BACKFILL MATERIAL SHALL CONFORM	CITY ENGINEER. LANE CLOSURES ON ARTERIAL STREETS ARE PERMITTED BETWEEN 7 AM AND 7 PM ON WEEKENDS, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. ARTERIAL ROADWAY ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAY ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAY REQUIRES AN ARROWBOARD AS PART OF THE TRAFFIC CONTROL.  7. AT THE END OF EACH DAY OF WORK, THE ROADWAY MUST BE COMPLETELY REOPENED TO TRAFFIC. ANY OPEN HOLES MUST BE PLATED OR COLD PATCHED; THE CITY WILL NOT ALLOW THE HOLES TO BE FILLED WITH GRAVEL.  CITY OF NAPERVILLE EROSION CONTROL AND DRAINAGE NOTES  1. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.  2. DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.  3. DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAYMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREET SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET SHALL BE REPROVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET SHALL BE REPROVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET SHALL BE ASSESSED STABLLSHED.  5. ACCEPTABLE PERMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.  6. ALL DOEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL MEASURES SHALL HAVE EROSION CONTROL DRESSE	COB & HEFINER  A S S O C I A T E S  utterfield Rd, Suite 300, Downers Grove, IL 60515  FONE: (630) 652-4600, FAX: (630) 652-4601  www.jacobandhefner.com  NAP
15. A CUSTOMER'S GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO DPU-E DISTRIBUTION EQUIPMENT.  16. DPU-E WILL INSTALL AND ENERGIZE ALL METERS IN A MULTIPLE METER BANK AT ONE TIME, PROVIDED ALL METER SOCKETS PASS INSPECTION. IN THE EVENT OF AN INCOMPLETE INSTALLATION, ONLY THE INSPECTED AND APPROVED EQUIPMENT SHALL BE ENERGIZED AND A METER INSTALLED. INDIVIDUAL TENANT PERMITS WILL BE REQUIRED FOR INSTALLATION OF THE OTHER METERS IN THE METER BANK.	FRAMES SHALL BE SHOP PAINTED WITH ASPHALITIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE MANHOLE COVER.  9. MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE, TRUE TO VERTICAL ALIENMENT, IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLEME REINFORCED WITH 1/2 INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.  10. CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF MAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF MAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS USED BELOW. ALL HERAMES AND GRATES SHALL MEET OR EXCEED ASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT.  10.a. PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL.  10.b. BARRIER CURB AND CUTTER: EAST JORDAN IRON WORKS 7525 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, OR APPROVED EQUAL.  10.c. DEPRESSED CURB: EAST JORDAN IRON WORKS 5527 BEEHIVE GRATE, OR APPROVED EQUAL.  10.d. MOUNTABLE CURB: EAST JORDAN IRON WORKS 5527 BEEHIVE GRATE, OR APPROVED EQUAL.  11. THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS FO VARIOUS STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING PIPE SHALL HAVE MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING DIPE SHALL BE OF LEAK PROOF CONSTRUCTION, CAPABLE OF WITH TYPE M1 RADIAL FLA		JAMES 1333 B1

13. FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2—INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1—FOOT BY 1—FOOT SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

14. ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH NON-SHRINKING HYDRAULIC CEMENT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RING, WHEN ADJUSTMENTS ARE

NECESSARY, ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH

DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP) OR OTHER MATERIAL APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED. THE MAXIMUM HEIGHT OF ADJUSTMENTS SHALL BE 12 INCHES.

F805a

N.T.S.

CITY OF NAPERVILLE PROJECT # DEV-0068-2025

# Final Landscape Plan

# Dutch Bros Coffee

# Naperville, Illinois

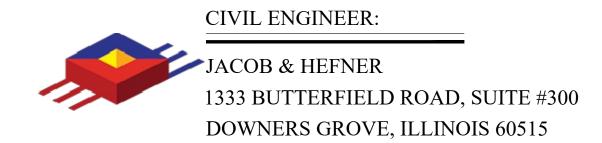
June 27, 2025

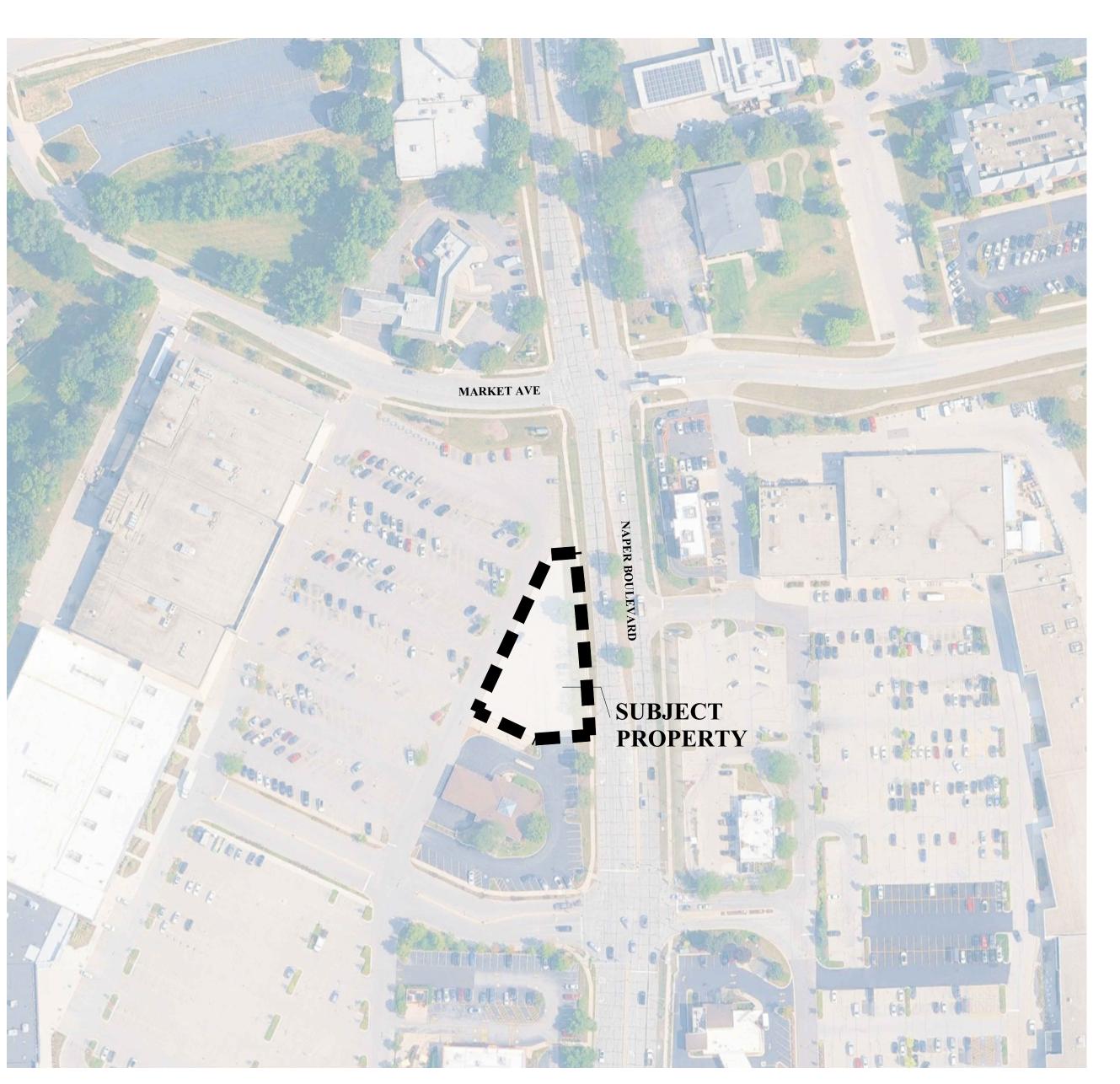
# CONSULTANTS:



LANDSCAPE ARCHITECT:

GARY R. WEBER ASSOCIATES, INC 402 W. LIBERTY DRIVE WHEATON, ILLINOIS 60187





LOCATION MAP

SCALE: 1"=100'

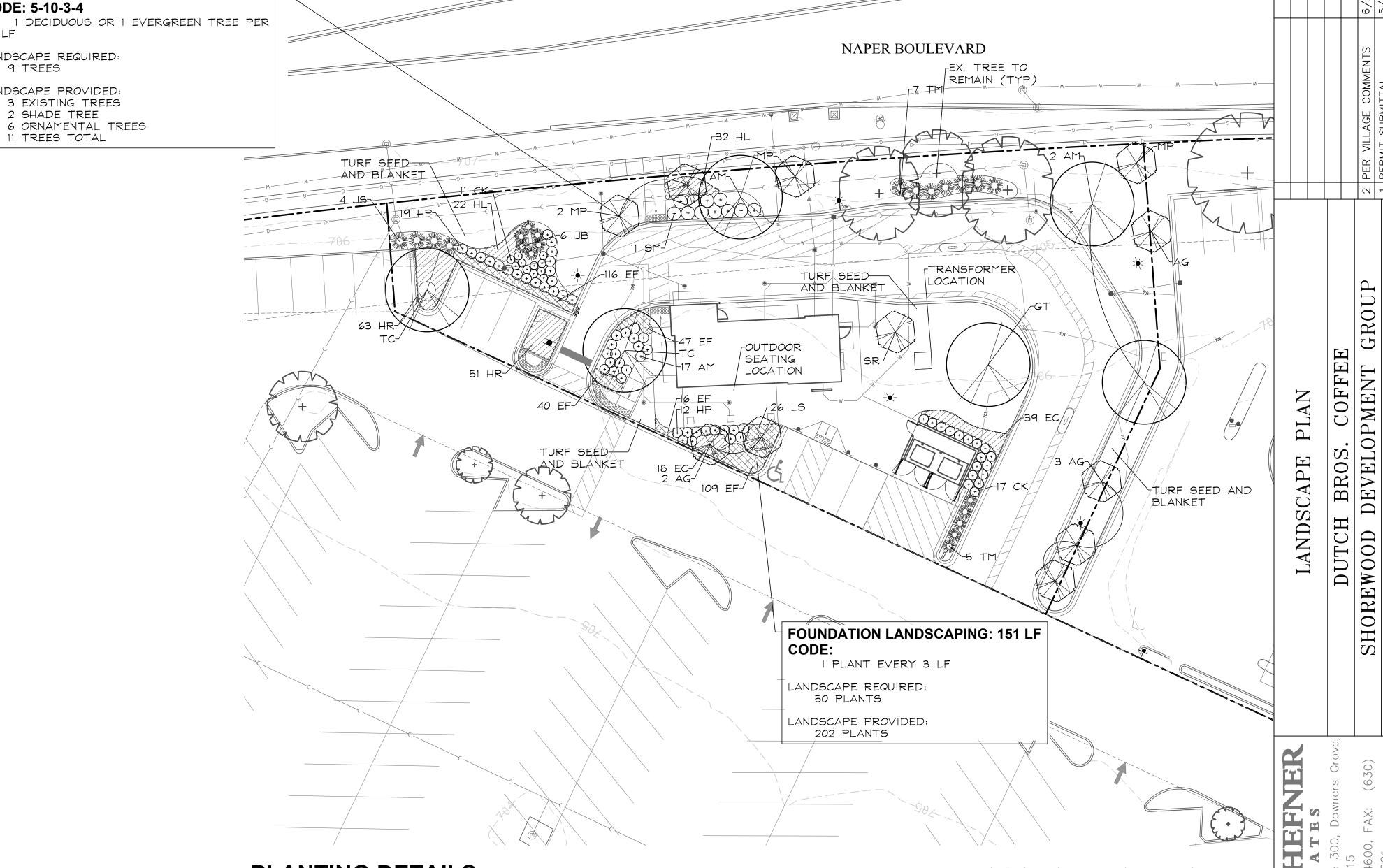
# INDEX OF PLAN SHEETS

SHEET NO.	DESCRIPTION
L1.0	COVER SHEET
L1.1	LANDSCAPE PLAN
L1.2	LANDSCAPE SPECS

PL	ANT	LIST			PERIMETER LANDSCAPING: 620.62 LF CODE: 5-10-3-4
Key	Qty	Botanical/Common Name	Size	Remarks	1 DECIDUOUS OR 1 EVERGREEN TREE PE
		SHADE TREES			70 LF
AM	3	Acer miyabei 'Morton' STATE STREET MAPLE	2 1/2" Cal.		LANDSCAPE REQUIRED: 9 TREES
GT	1	Gleditsia triacanthos var. inermis 'Skycole SKYLINE HONEYLOCUST	' 2 1/2" Cal.		LANDSCAPE PROVIDED: 3 EXISTING TREES
TC	2	Tilia cordata 'Greenspire' GREENSPIRE LITTLELEAF LINDEN	2 1/2" Cal.		2 SHADE TREE 6 ORNAMENTAL TREES 11 TREES TOTAL
		ORNAMENTAL TREES			
AG	6	Amelanchier x grandiflora APPLE SERVICEBERRY	6' Ht.	Clump Form	
MP	4	Malus 'Prairifire' PRAIRIFIRE CRABAPPLE	6' Ht.	Multi-Stem	
SR	1	Syringa reticulata 'Ivory Silk' IVORY SILK JAPANESE TREE LILAC	2" Cal.	Single Stem	
		DECIDUOUS SHRUBS			
AM	17	Aronia melanocarpa LOW SCAPE MOUND	24" Tall	3' O.C.	
HP	31	Hydrangea paniculata 'llvobo' BOBO HYDRANGEA	24" Tall	3' O.C.	 
SM	11	Syringa meyeri 'Palabin' DWARF KOREAN LILAC	24" Tall	4' O.C.	
		EVERGREEN SHRUBS			
JB	6	Juniperus conferta 'Blue Pacific' BLUE PACIFIC JUNIPER	24" Wide	4' O.C.	,
JS	4	Juniperus chinensis var. sargentii 'Viridis' GREEN SARGENT JUNIPER	24" Wide	5' O.C.	
TM	12	Taxus x media 'Densiformis' DENSE YEW	24" Wide	4' O.C.	
		ORNAMENTAL GRASSES			, X
CK	28	Calamagrostis x acutiflora 'Karl Foerster' FEATHER REED GRASS	#1	30" O.C.	
		PERENNIALS			
EC	57	Echinacea 'CBG Cone 2' PIXIE MEADOWBRITE CONEFLOWER	#1	18" O.C.	
HL	54	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	#1	18" O.C.	
HR	114	Hemerocallis 'Rosy Returns' ROSY RETURNS DAYLILY	#1	18" O.C.	
		GROUNDCOVERS			
EF	328	Euonymus fortunei var. 'Coloratus' PURPLE WINTERCREEPER	#SP4	12" O.C.	
LS	26	Liriope spicata CREEPING LILYTURF	#SP4	18" O.C.	
		MISC. MATERIALS			
	20	SHREDDED HARDWOOD MULCH	C.Y.		
	0.14	TURF SEED \$ EROSION CONTROL BLANKET	AC.		

# **GENERAL LANDSCAPE NOTES**

- 1. Contractor shall verify underground utility lines and is responsible for any damage.
- 2. Contractor shall verify all existing conditions in the field prior to construction and shall notify landscape architect of any variance.
- 3. Material quantities shown are for contractors convenience only. The Contractor must verify all material and supply sufficient materials to complete the job per plan.
- 4. The landscape architect reserves the right to inspect trees and shrubs either at place of growth or at site before planting, for compliance with requirements of variety, size and
- 5. Work shall conform to American Standard for Nursery Stock, State of Illinois Horticultural Standards, and Local Municipal requirements.
- 6. Contractor shall secure and pay for all permits, fees, and inspections necessary for the proper execution of this work and comply with all codes applicable to this work.
- 7. Any existing trees whose health is negatively impacted by proposed site improvements, either during or post construction shall be removed and replanted with a tree species approved by the City of Naperville's Forestry division.
- 8. See General Conditions and Specifications for landscape work for additional requirements.



FINISHED GRADE

**NOT TO SCALE** 

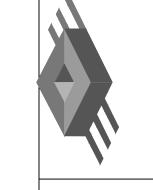
#### **PLANTING DETAILS** -PRUNE ONLY TO ENCOURAGE CENTRAL LEADER. DO NOT CUT CENTRAL LEADER. -MAINTAIN EXPOSURE OF ROOT FLARE. IF ROOT FLARE IS NOT EXPOSED, CAREFULLY REMOVE EXCESS SOIL. SET ROOT BALL SO THAT BASE OF ROOT FLARE IS 3-6" HIGHER THAN ADJACENT FINISH GRADE. -3" SHREDDED HARDWOOD BARK BALL 3-6" HIGHER THAN MULCH. FORM SAUCER AROUND FINISHED GRADE. OUTSIDE EDGE (1" AT BASE OF TRUNK) -2" SHREDDED HARDWOOD -FINISHED GRADE BARK MULCH. FORM

-EXISTING SUBGRADE PLANTING PIT TO BE AT LEAST TWICE AS WIDE AS ROOT BALL AT LEAST 2X ROOT BALL DIA. **DECIDUOUS TREES NOT TO SCALE** 

AVOID PLACING SOIL OVER ROOT CROWN. SET ROOT -PLANT SPACING AS PER PLAN SAUCER AROUND OUTSIDE. -2" SHREDDED LEAF MULCH EXISTING SUBGRADE EXISTING SUBGRADE DECIDUOUS AND EVERGREEN SHRUBS

SCALE: 1"=20'

PERENNIALS AND GROUNDCOVERS **NOT TO SCALE** 



F805a

1" = 20

#### 1.1 DESCRIPTION OF WORK

The work shall consist of furnishing, transporting and installing all seeds, plants and

- other materials required for:

  1. The establishment of trees, shrubs, perennial, annual and lawn areas as shown on Landscape Plan;
- The provision of post-planting management as specified herein;
   Any remedial operations necessary in conformance with the plans as specified in this document;
- 4. The design, furnishing and installation of a complete underground sprinkler system: and
- 5. Permits which may be required.

#### 1.2 QUALITY ASSURANCE

- A. Work shall conform to State of Illinois Horticultural Standards and local municipal requirements.
- B. Quality Control Procedures:
- 1. Ship landscape materials with certificates of inspection as required by governmental authorities. Comply with governing regulations applicable to landscape materials.
- 2. Do not make substitutions. If specified landscape material is not obtainable, submit to Landscape Architect proof of non-availability and proposal for use of equivalent material.
- 3. Analysis and Standards: Package standard products with manufacturers certified analysis.

#### C. Insect Control

1. For areas containing standing water less than 3-ft that persist for greater than 7 days, mosquito control may be necessary. Mosquito control should be limited to larvicides applications such as Natular or Vectolex FG, per the EPA and CDC guidance. Larvicide application should be provided by a qualified professional. Contract the North Shore Mosquito Abatement District for service.

#### 1.3 SUBMITTALS

#### A. Planting Schedule

Submit three (3) copies of the proposed planting schedule showing dates for each type of planting

#### B. Maintenance Instruction - Landscape Work

Submit two (2) copies of typewritten instructions recommending procedures to be established by the Owner for the maintenance of landscape work for one full year. Submit prior to expiration of required maintenance periods.

Instructions shall include: watering, fertilizing, spraying, mulching and pruning for plant material and trimming groundcover. Instructions for watering, fertilizing and mowing grass areas shall be provided ten (10) days prior to request for inspection for final acceptance. Landscape Architect shall receive copies of all instructions when issued.

- C. Submit two (2) copies of soil test of existing topsoil with recommendations for soil additive requirement to Landscape Architect for review and written approval.
- D. Submit two (2) samples of shredded hardwood bark mulch, erosion control blankets, and all other products and materials as specified on plans to Landscape Architect for review and written approval.
- E. Nursery packing lists indicating the species and quantities of material installed must be provided to the Owner and/or City upon request.

#### 1.4 JOB CONDITIONS

- A. Examine and evaluate grades, soils and water levels. Observe the conditions under which work is to be performed and notify Landscape Architect of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected in an acceptable manner.
- B. Utilities: Review underground utility location maps and plans; notify local utility

location service; demonstrate an awareness of utility locations; and certify acceptance of liability for the protection of utilities during course of work.

Contractor shall be responsible for any damage to utilities or property.

C. Excavation: When conditions detrimental to plant growth are encountered such as rubble fill, adverse drainage conditions or obstructions, notify Landscape Architect before planting.

#### 1.5 GUARANTEES

- A. Guarantee seeded and sodded areas through the specified maintenance period and until final inspection.
- B. Guarantee trees, shrubs, groundcover and perennials for a period of one year after date of acceptance against defects including death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others or unusual phenomena or incidents which are beyond Landscape Installer's control.
- C. Native Planting Area Performance Criteria

1<sup>st</sup> Full Growing Season: 90% of cover crop shall be established. There shall be no bare areas greater than two (2) square feet in seeded areas. At least 25% of vegetation coverage shall be native, non-invasive species. At least 50% of the emergent species, if planted as plugs shall be alive and apparent.

2<sup>nd</sup> Full Growing Season: All areas with the exception of emergent zones shall exhibit full vegetative cover. At least 50% of the vegetation coverage shall be native, non-invasive species.

3<sup>rd</sup> Full Growing Season: At least 75% of vegetation coverage shall be native, non-invasive species. Non-native species shall constitute no more than 25% relative aerial coverage of the planted area. Invasive species for this project shall include the following: Ambrosia artemisiifolia \$\psi\$ trifida (Common \$\psi\$ Giant Ragweed), Cirsium arvense (Canada Thistle), Dipsacus laciniatus (Cut-leaved Teasel), Dipsacus sylvestris (Common Teasel), Lythrum salicaria (Purple Loosestrife), Melilotus sp. (Sweet Clover), Phalaris arundinacea (Reed Canary Grass), Phragmites australis (Giant Reed), Fallopia japonica (Japanese Knotweed), Rhamnus cathartica \$\psi\$ frangula (Common \$\psi\$ Glossy Buckthorn), Typha sp. (Broadleaf, Narrowleaf, and Hybrid Cattail).

#### LANDSCAPE WORK PART 2 - PLANT MATERIALS

#### 2.1 LAWN SOD

specified.

Provide strongly rooted sod, not less than two (2) years old and free of weeds and undesirable native grasses. Provide only sod capable of growth and development when planted (viable, not dormant) and in strips not more than 18" wide x 4' long. Provide sod composed of a 5-way blend of Kentucky Bluegrass such as: Midnight, Allure, Viva, Washington, Liberty.

#### 2.2 LAWN SEED MIXTURE

Grass Seed: Provide fresh, clean, new crop seed complying with the tolerance for purity and germination established by the Official Seed Analysts of North America. Provide seed of the grass species, proportions and maximum percentage of weed seed, as

- A. Lawn Seed Mixture 5 lbs. / 1,000 sq. ft.
- 50% Kentucky Bluegrass (98/85) 15% Cutter Perennial Ryegrass
- 10% Spartan Hard Fescue
- 10% Edge Perennial Ryegrass
  10% Express Perennial Ryegrass
- 5% Pennlawn Creeping Red Fescue
- B. Temporary Lawn Seed Mixture 5 lbs. / 1,000 sq. ft.
- 40% Kentucky Bluegrass (98/85) 40% Perennial Ryearass
- 20% Annual Ryegrass
- C. Highlands Fescue Seed Mixture Mixture-7 lbs. / 1,000 sq. ft.
- 25% Discovery Hard Fescue 25% Tiffany Chewinas Fescue
- 25% Florentine Creeping Red Fescue 25% Bighorn Sheeps Fescue
- D. Detention Seed Mixture 7 lbs. / 1000 sq. ft.
- 70% Kentucky 31 Tall Fescue 30% Perennial Ryegrass

# 2.3 GROUNDCOVERS, PERENNIALS AND ANNUALS

Provide plants established and well-rooted in removable containers or integral peat pots and with not less than the minimum number and length of runners required by ANSI Z60.1 for the pot size shown or listed.

## 2.4 TREES AND SHRUBS

- A. Name and Variety: Provide nursery grown plant material true to name and variety.
- B. Quality: Provide trees, shrubs and other plants complying with the recommendations and requirements of ANSI Z60.1 "Standard for Nursery Stock" and as further specified.
- C. Deciduous Trees: Provide trees of height and caliper listed or shown and with branching configuration recommended by ANSI Z60.1 for type and species required. Provide single stem trees except where special forms are shown or listed. Provide balled and burlapped (B&B) deciduous trees.
- D. Deciduous Shrubs: Provide shrubs of the height shown or listed and with not less than the minimum number of canes required by ANSI Z60.1 for the type and height of shrub required. Provide balled and burlapped (B&B) deciduous shrubs.
- E. Coniferous Evergreen: Provide evergreens of the sizes shown or listed. Dimensions indicate minimum spread for spreading and semi-spreading type evergreens and height for other types. Provide quality evergreens with well-balanced form complying with requirements for other size relationships to the primary dimension shown. Provide balled and burlapped (B&B) evergreen trees and containerized shrubs.
- F. Inspection: All plants shall be subject to inspection and review at the place of growth or upon delivery and conformity to specification requirements as to quality, right of inspection and rejection upon delivery at the site or during the progress of the work for size and condition of balls or roots, diseases, insects and latent defects or injuries. Rejected plants shall be removed immediately from the site.

## 2.5 PLANTING SOIL MIXTURE

Provide planting soil mixture consisting of clean uncompacted topsoil (stockpiled at site) for all planting pits, perennial, annual and groundcover areas. Topsoil shall be conditioned based on any recommendations resulting from the soil test in 1.3.C.

## 2.6 EROSION CONTROL

- A. Lawn Seed Areas Erosion Control Blanket: North American Green DS75, or equivalent approved equal.
- B. Native Areas Erosion Control Blanket: North American Green S150, or equivalent approved equal.
- C. Shoreline and Sloped Berm Areas Erosion Control Blanket: North American Green SC150, or equivalent approved equal. To be installed per manufacturer's recommendations.
- D. Refer to latest Engineering \$ Erosion Control Plans for any areas to receive permanent or long-term blanket installation.
- E. Hydroseed Mulch: Conweb 2000 wood fiber mulch with tackifier. Other mulches may be used subject to approval of Landscape Architect.

2.7 MULCH

Provide mulch consisting of premium shredded hardwood bark. Provide sample to Landscape Architect for approval prior to ordering materials.

#### LANDSCAPE WORK PART 3 - EXECUTION

#### 3.1 PLANTING SCHEDULE

At least thirty (30) days prior to the beginning of work in each area, submit a planting schedule for approval by the Landscape Architect.

#### 3.2 PLANTINGS

#### A. Sodding New Lawns

- 1. Remove existing grass, vegetation and turf. Dispose of such material legally off-site, do not turn over into soil being prepared for lawns.
- 2. Till to a depth of not less than 6"; apply soil amendments as needed; remove high areas and fill in depressions; till soil to a homogenous mixture of fine texture, remove lumps, clods, stones over 1" diameter, roots and other extraneous matter. Dispose of such material legally off-site.
- 3. Sodded areas shall receive an application of commercial fertilizer at the rate of 10 lbs. per 1,000 sq, ft. and shall have an analysis of 16-8-8.
- 4. Lay sod within 24 hours from time of stripping
- 5. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips; do not overlap. Stagger strips to offset joints in adjacent courses. Work from boards to avoid damage to subgrade or sod. Tamp or roll lightly to ensure contact with subgrade. Work sifted soil into minor cracks between pieces of sod; remove excess to avoid smothering of adjacent arass.
- 6. Water sod thoroughly with a fine spray immediately after planting.

#### B. Seeding New Lawns

- 1. Remove existing grass, vegetation and turf. Dispose of such material legally off-site. Do not turn over into soil being prepared for lawns.
- 2. Till to a depth of not less than 6"; apply soil amendments; remove high areas and fill in depressions; till soil to a homogenous mixture of fine texture, remove lumps, clods, stones over 1" diameter, roots and other extraneous matter. Dispose of such material legally off-site.
- 3. Seeded lawn areas shall receive an application of commercial fertilizer at the rate of 5 lbs. per 1,000 sq. ft. and shall be 6-24-24. Fertilizer shall be uniformly spread and mixed into the soil to a depth of 1" inches.
- Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage.
- 5. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds five (5) miles per hour. Distribute seed evenly over entire area by sowing equal quantity in two directions at right angles to each other.
- 6. Sow not less than specified rate.
- 7. Rake lawn seed lightly into top 1" of soil, roll lightly and water with a fine spray.
- 8. After the seeding operation is completed, spray a wood fiber mulch (Conweb 2000 with tackifier or approved equal) over the entire grassed area at the rate of 2,000 lbs. per acre. Use a mechanical spray unit to insure uniform coverage. Exercise care to protect buildings, automobiles and people during the application of the mulch.
- 9. DO NOT MOW HIGHLANDS FESCUE SEED MIXTURE.
- C. Groundcover and Perennial Beds

Groundcover, perennials, and annuals shall be planted in continuous beds of planting soil mixture a minimum of 8" deep. Install per spacing indicated on plan.

## D. Trees and Shrubs

- 1. Set balled and burlapped (B&B) stock plumb and in center of pit or trench with top of ball at an elevation that will keep the root flare exposed upon backfill and mulching. Remove burlap from top and sides of balls; retain on bottoms. When set, place additional topsoil backfill around base and sides of ball and work each layer to settle backfill and eliminate voids and air pockets. When excavation is approximately 2/3 full, water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Water again after placing final layer of backfill.
- Dish top of backfill to allow for mulching. Provide additional backfill berm around edge of excavations to form shallow saucer to collect water.
- 3. Mulch pits, trenches and planted areas. Provide not less than 3" thickness of mulch and work into top of backfill and finish level with adjacent finish grades. Maintain exposed root flare at all times.
- 4. Prune only injured or dead branches from flowering trees, if any. Protect central leader of tree during shipping and pruning operations. Prune shrubs to retain natural character in accordance with standard horticultural practices.
- Remove and replace excessively pruned or ill-formed stock resulting from improper pruning.
- 6. The Contractor shall be wholly responsible for assuring that all trees are planted in a vertical and plumb position and remain so throughout the life of this contract and guarantee period. Trees may or may not be staked and guyed depending upon the individual preference of the Contractor; however, any bracing procedure(s) must be approved by the Owner prior to its installation.

# 3.3 INITIAL MAINTENANCE

- A. Begin maintenance immediately after planting, continuing until final acceptance. A minimum of thirty (30) days.
- B. Maintain planted and seeded areas by watering, rolling/regrading, replanting and implementing erosion control as required to establish vegetation free of eroded or
- C. Highlands Fescue and Native Planting areas are to be mowed only once per spring during the initial three year establishment period.

## 3.4 CLEAN UP AND PROTECTION

- A. During landscape work, store materials and equipment where directed. Keep payements clean and work areas and adjoining areas in an orderly condition.
- B. Protect landscape work and materials from damage due to landscape operations, operations by other trades and trespassers. Maintain protection during installation and maintenance periods. Treat, repair or replace damaged landscape work as directed by Landscape Architect.

## 3.5 INSPECTION AND ACCEPTANCE

- A. The Landscape Architect reserves the right to inspect seeds, plants, trees and shrubs either at place of growth or at site before planting for compliance with requirements for name, variety, size, quantity, quality and mix proportion.
- B. Supply written affidavit certifying composition of seed mixtures and integrity of plant materials with respect to species, variety and source.
- C. Notify the Landscape Architect within five (5) days after completing initial and/or supplemental plantings in each area.
- D. When the landscape work is completed, including maintenance, the Landscape Architect will, upon request, make a final inspection to determine acceptability. After final acceptance, the Owner will be responsible for maintenance.

SS CROUP 2 PER VILLAGE COMMENTS 6 No. Description 5

LANDSCAPE SPECIFICATIONS

DUTCH BROS. COFFEE

SHOREWOOD DEVELOPMENT G

S S O C I A T E S

d Rd, Suite 300, Downers Gro

ll 60515

530) 652-4600, FAX: (630)

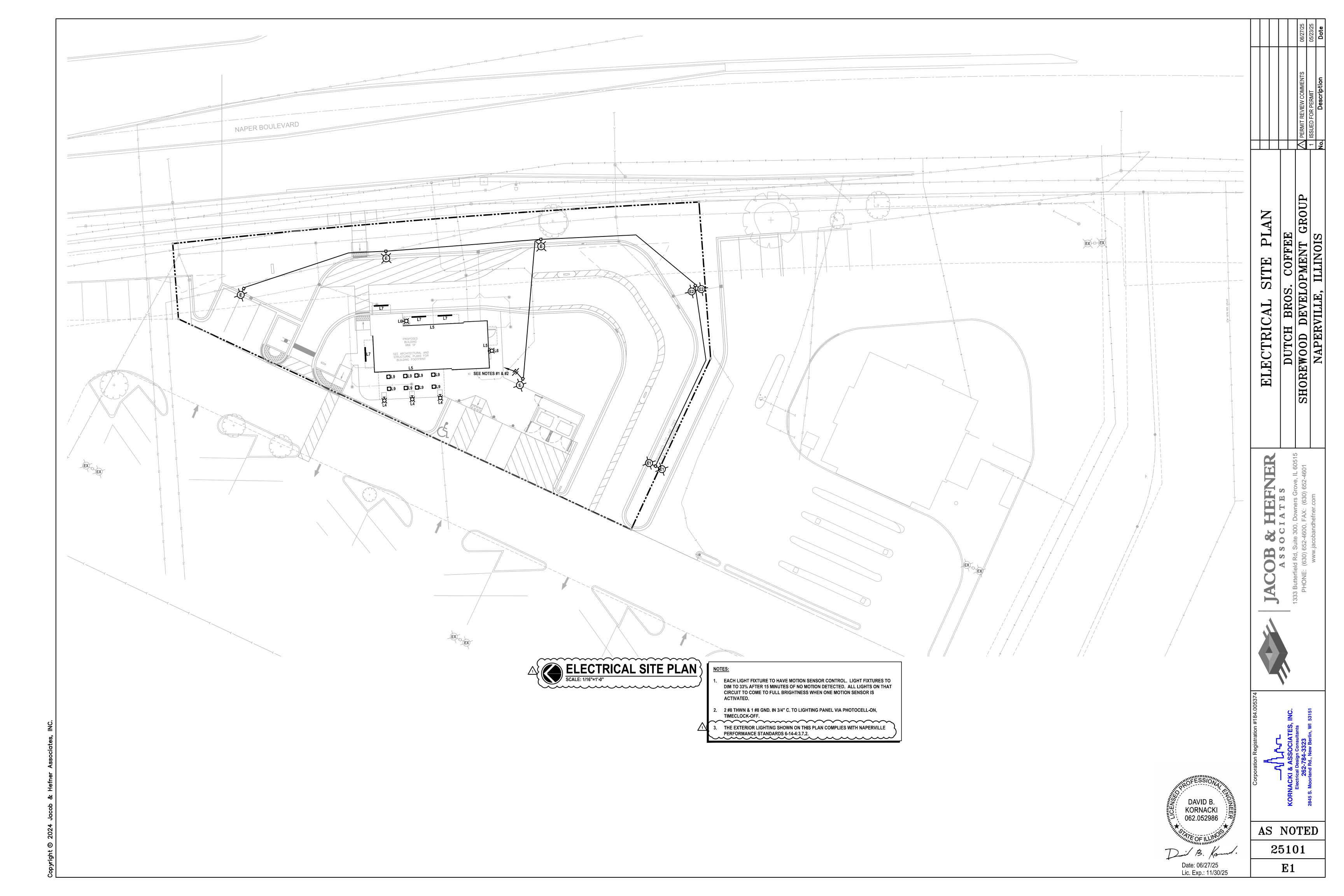
1333 B

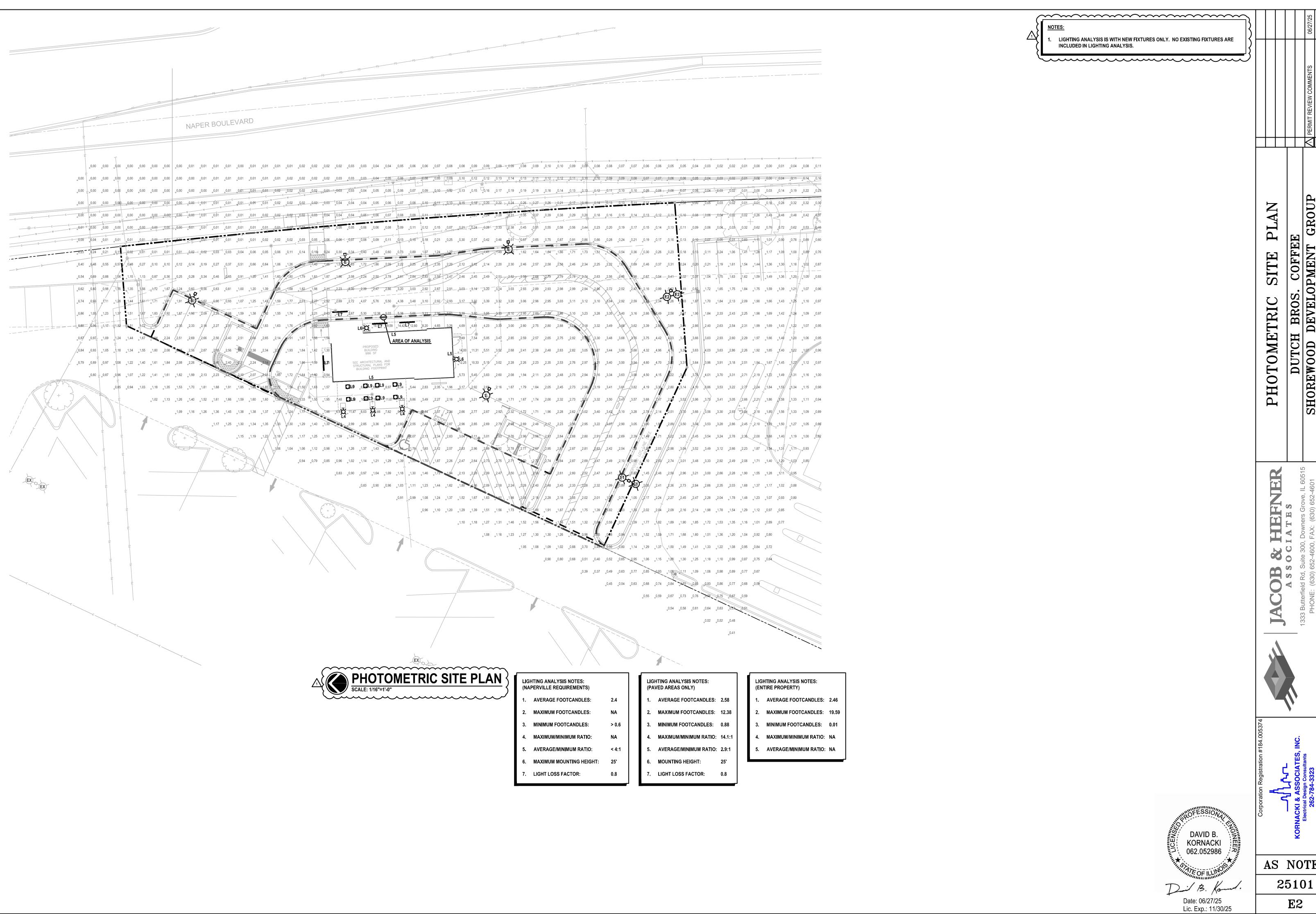
O.

F805a

1" = 20

L2

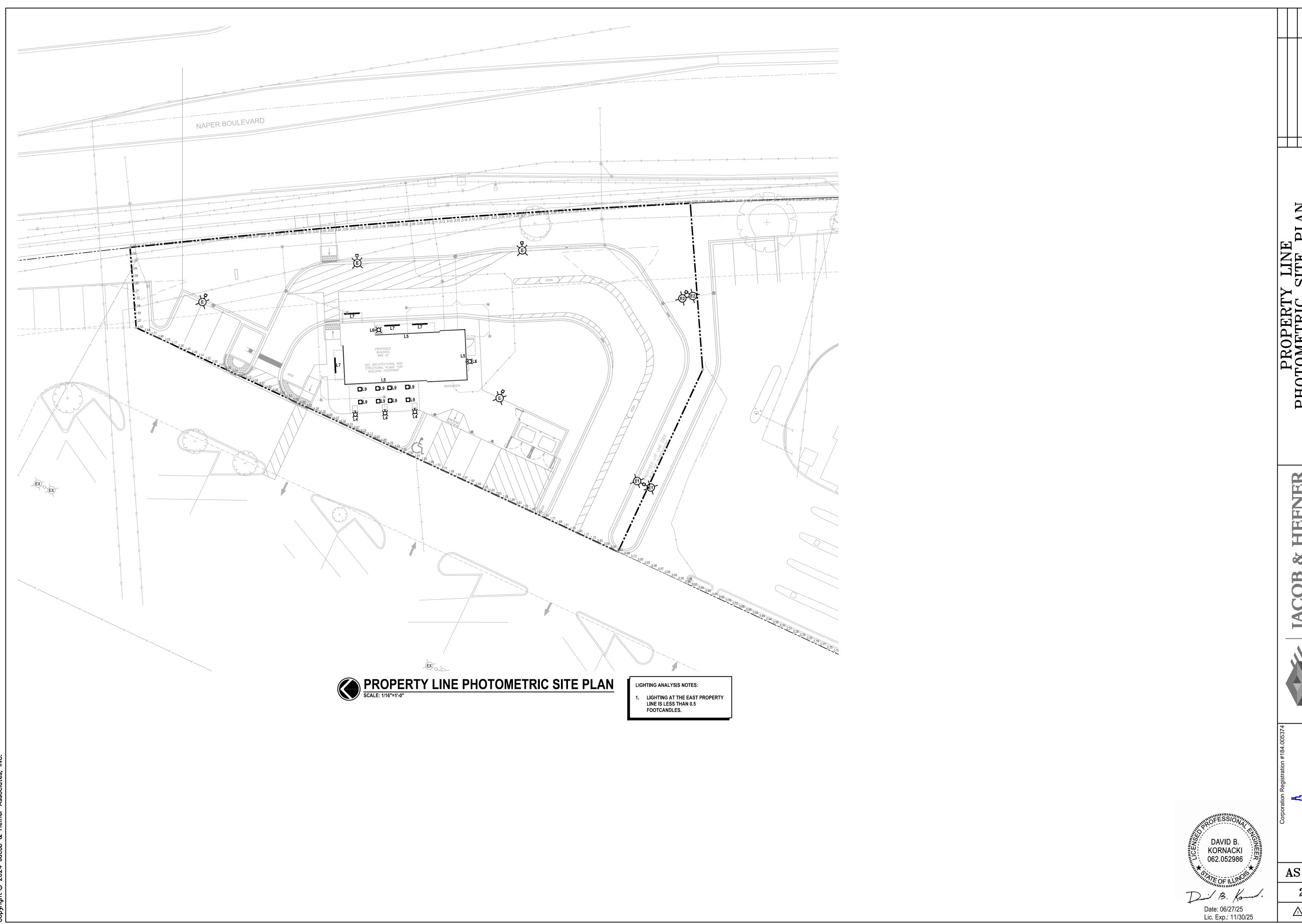




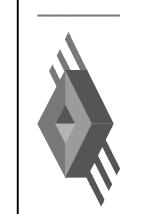


AS NOTED

**E2** 



PROPERTY LINE
PHOTOMETRIC SITE PLAN
DUTCH BROS. COFFEE
SHOREWOOD DEVELOPMENT GROUP
NAPERVILLE, ILLINOIS



AS NOTED

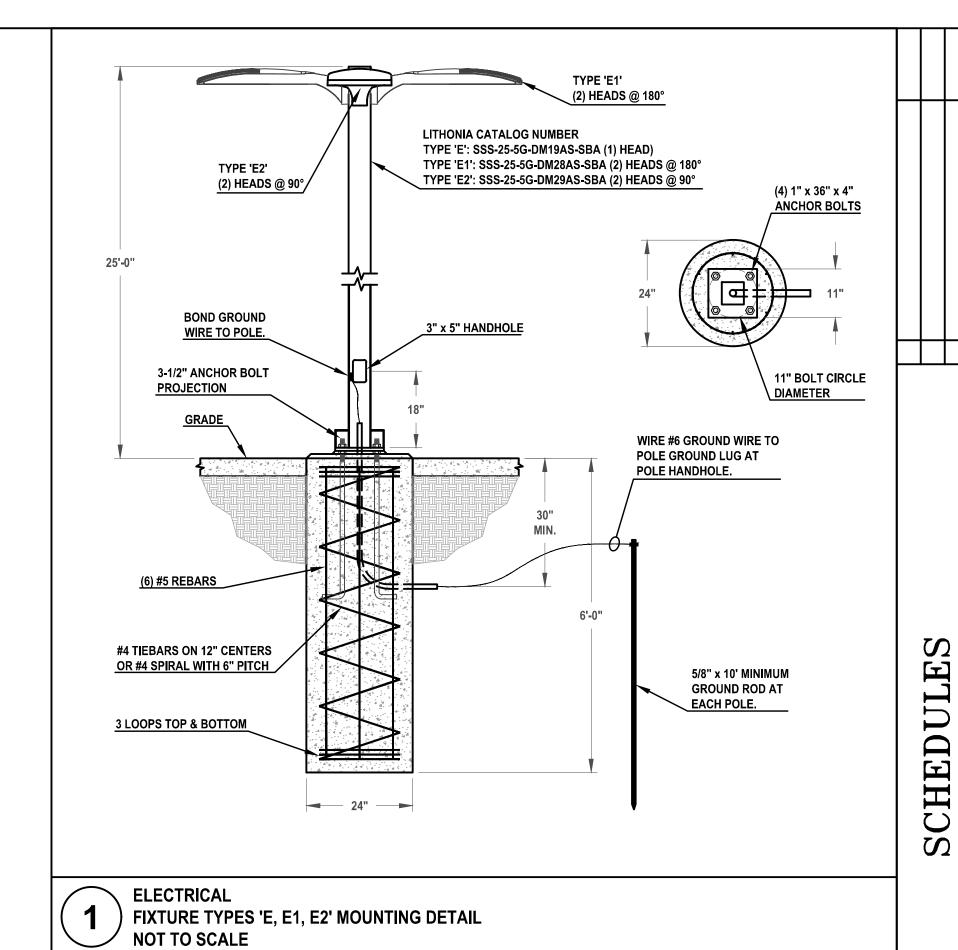
25101 △{ **E3** }

	FIXTURE SCHEDULE											25101				
	ГҮРЕ	INPUT WATTS	VOLTS	LUMENS	COLOR TEMP	70+ 80+ 90	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	BUG RATING	SHIELDING	FINISH	MOUNTING	CONT INTEGRAL	ROLS REMOTE	SEE NOTES
	E	137	120	12873	4000K	•	POLE & LUMINAIRE	LITHONIA	DSX0 LED-P6-40K-70CRI-BLC4-MVOLT-SPA-NLTAIR2-PIRHN-DDBXD	004	ACRYLIC	DARK BRONZE	SEE DETAIL 1/E4	os	PHOTO ON TC OFF	#1
	E1	(2) 137	120	12873	4000K	•	POLE & (2) LUMINAIRES	LITHONIA	(2) DSX0 LED-P6-40K-70CRI-BLC4-MVOLT-SPA-NLTAIR2-PIRHN-DDBXD	004	ACRYLIC	DARK BRONZE	SEE DETAIL 1/E4	os	PHOTO ON TC OFF	#1
1	E2	(2) 137	120	12873	4000K	•	POLE & (2) LUMINAIRES	LITHONIA	(2) DSX0 LED-P6-40K-70CRI-BLC4-MVOLT-SPA-NLTAIR2-PIRHN-DDBXD	004	ACRYLIC	DARK BRONZE	SEE DETAIL 1/E4	os	PHOTO ON TC OFF	#1
1	L4						WALL SCONCE	PROVIDED BY OWNE								
	L5						NEON STRIP	PROVIDED BY OWNE	R/OWNER'S E.C.							
	L6						WALL BRACKET	PROVIDED BY OWNE	R/OWNER'S E.C.							
	L7						STRIP	PROVIDED BY OWNE	R/OWNER'S E.C.							
1	L9						DOWNLIGHT	PROVIDED BY OWNE								
	$\sim$		~~~													

**FIXTURE SCHEDULE NOTES:** 

EACH LIGHT FIXTURE TO HAVE MOTION SENSOR CONTROL. LIGHT FIXTURES TO DIM TO 33% IN UNOCCUPIED MODE. ALL LIGHTS TO COME TO FULL BRIGHTNESS WHEN ONE MOTION SENSOR IS ACTIVATED.

**SYMBOLS / ABBREVIATIONS** WALL BRACKET/WALL SCONCE FIXTURE - SEE FIXTURE SCHEDULE SURFACE/PENDANT FIXTURE - SEE FIXTURE SCHEDULE RECESSED DOWNLIGHT FIXTURE - SEE FIXTURE SCHEDULE POLE & LUMINAIRE(S) FIXTURE - SEE FIXTURE SCHEDULE SWITCHED CIRCUIT — — BRANCH CIRCUIT AFF ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ARC FAULT INTERRUPTER AMPERES/AMPERAGE ΑV **AUDIO VISUAL BATTERY BACKUP** BELOW FINISHED CEILING BOL BUILT-IN OVERLOAD BRKR BREAKER BWE CBA CP CRCT CTL DCP BAKED WHITE ENAMEL **COLOR BY ARCHITECT** CONTROL PANEL CIRCUIT CONTROL DOCK EQUIPMENT CONTROL PANEL DISC EC EM DISCONNECT ELECTRICAL CONTRACTOR **EMERGENCY** EXISTING RELOCATED ETC ELECTRONIC TIME CLOCK CONTROL EX **EXISTING TO REMAIN** EXISTING TO BE DEMO'D EXR EWC **EXISTING TO BE RELOCATED** ELECTRIC WATER COOLER FAAP FIRE ALARM ANNUNCIATOR PANEL FACP FIRE ALARM CONTROL PANEL FLA FULL LOAD AMPS FLSW FLOAT SWITCH FIRE PROTECTION CONTRACTOR FURN FURNISHED GC GENERAL CONTRACTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER GND GROUND HOA HAND-OFF-A HAND-OFF-AUTOMATIC SWITCH HORSEPOWER HVAC HEATING AND VENTILATING CONTRACTOR IG ISOLATED GROUND INTEGRAL IR IN ROOM IN UNIT IU JB JUNCTION BOX KW KILOWATTS LCP LIGHTING CONTROL PANEL LOC LT LOCATION LOW TEMPERATURE LTSW LIGHT SWITCH LVT LOW VOLTAGE THERMOSTAT MAGNETIC STARTER MAG MANUAL STARTER MCA MINIMUM CIRCUIT AMPS MSPL MANUAL STARTER WITH PILOT LIGHT NL NIGHT LIGHT NEAR UNIT OVERHEAT PROTECTION os OCCUPANCY SENSOR OU ON UNIT PB PUSH BUTTON PC PLUMBING CONTRACTOR PESW PNEUMATIC ELECTRIC SWITCH PHOTO PHOTOCELL PW PREWIRED REFRIGERATION CONTRACTOR REFRIGERATION CONTROL CONTRACTOR RECEPT RECEPTACLE SBA SELECTED BY ARCHITECT SC SEPARATE CIRCUIT SPSW SPEED SWITCH SS SOFT START ST SHUNT TRIP SWITCH LINE VOLTAGE THERMOSTAT TBD TO BE DETERMINED TC TIME CLOCK





SHOREWOOD DEVELOPMENT GROUP
NAPERVILLE, ILLINOIS

AS NOTED

25101 **E4** 

Lic. Exp.: 11/30/25

VFD

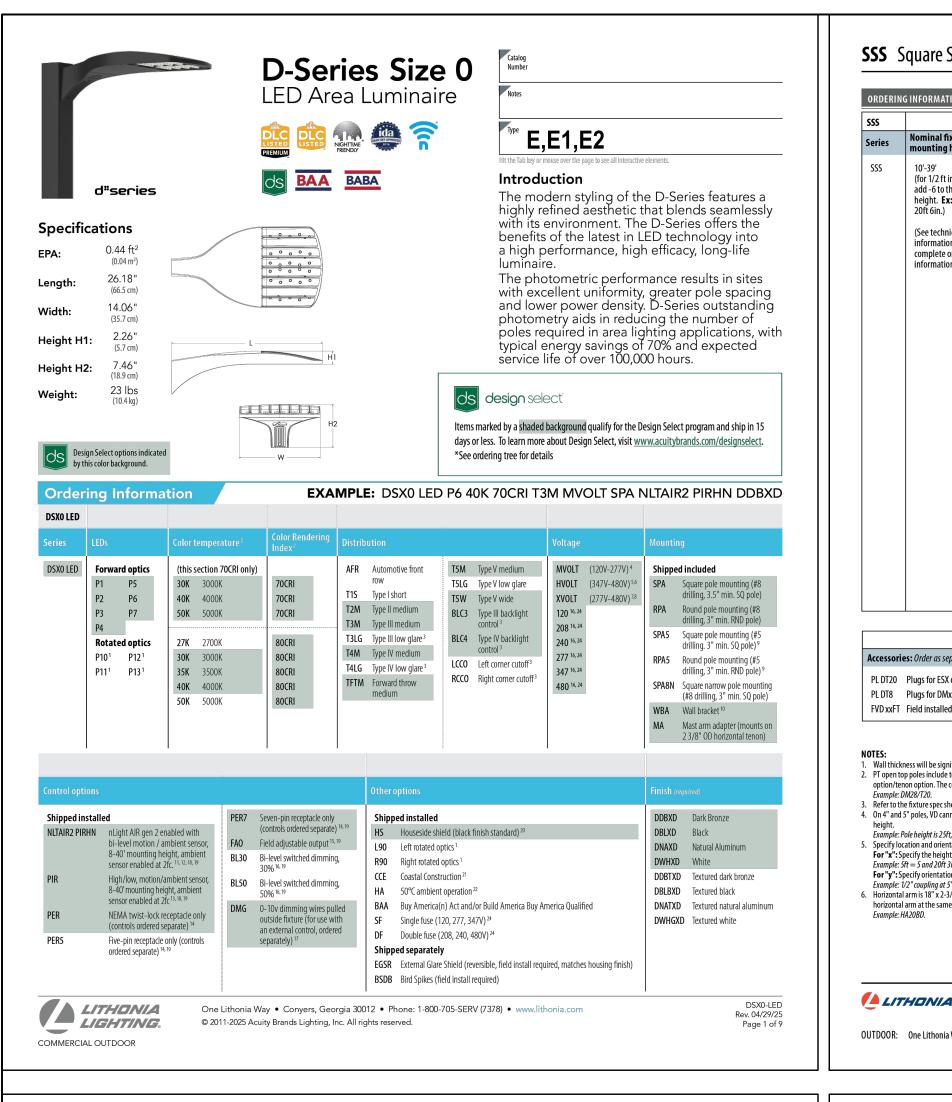
W WATTS

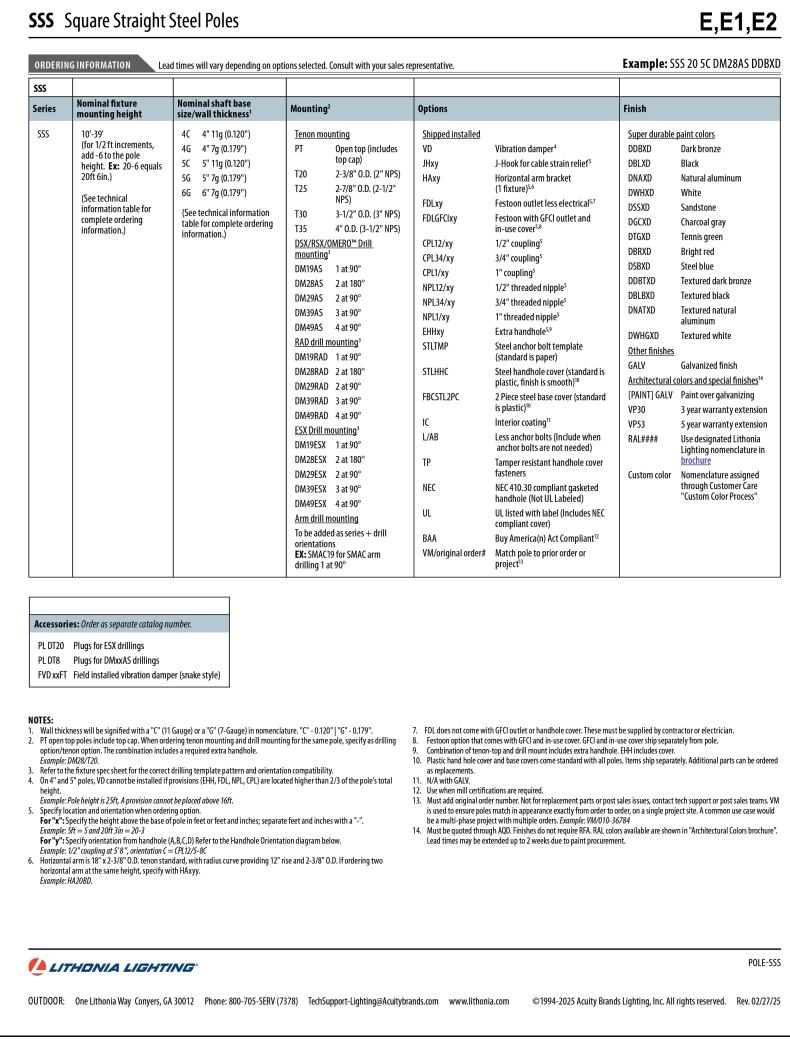
XFMR TRANSFORMER

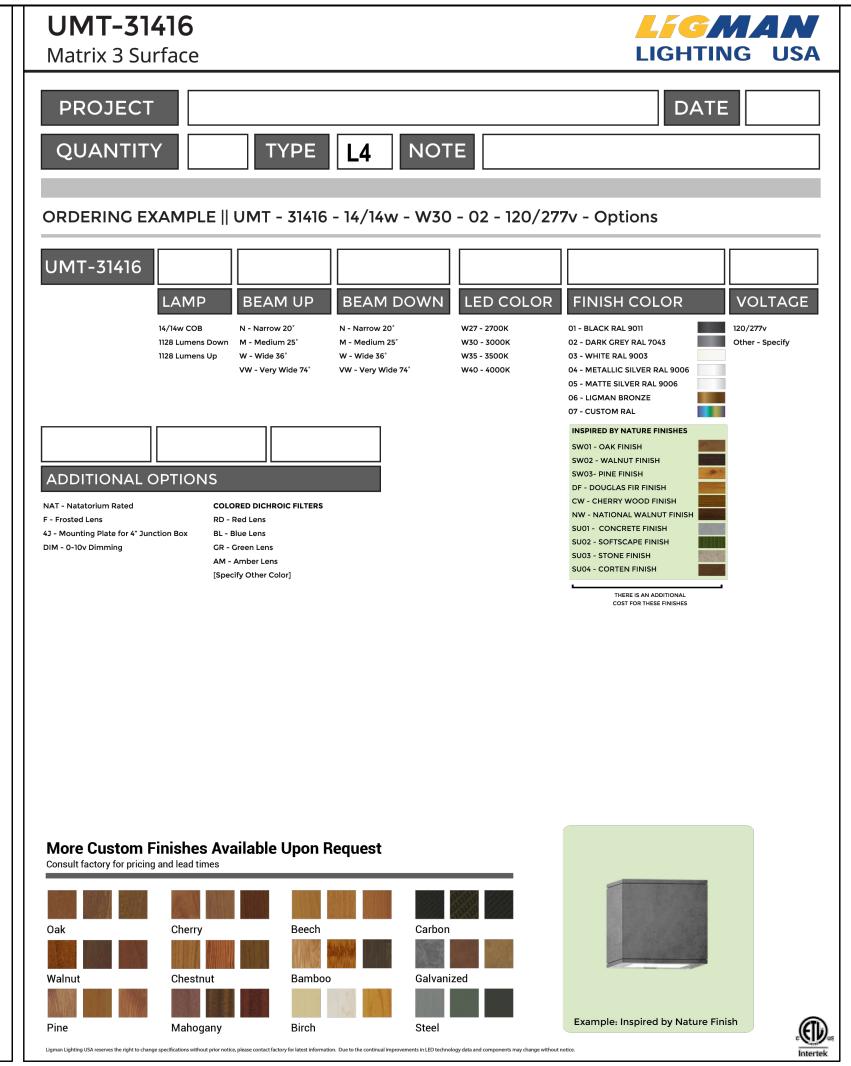
KORNACKI

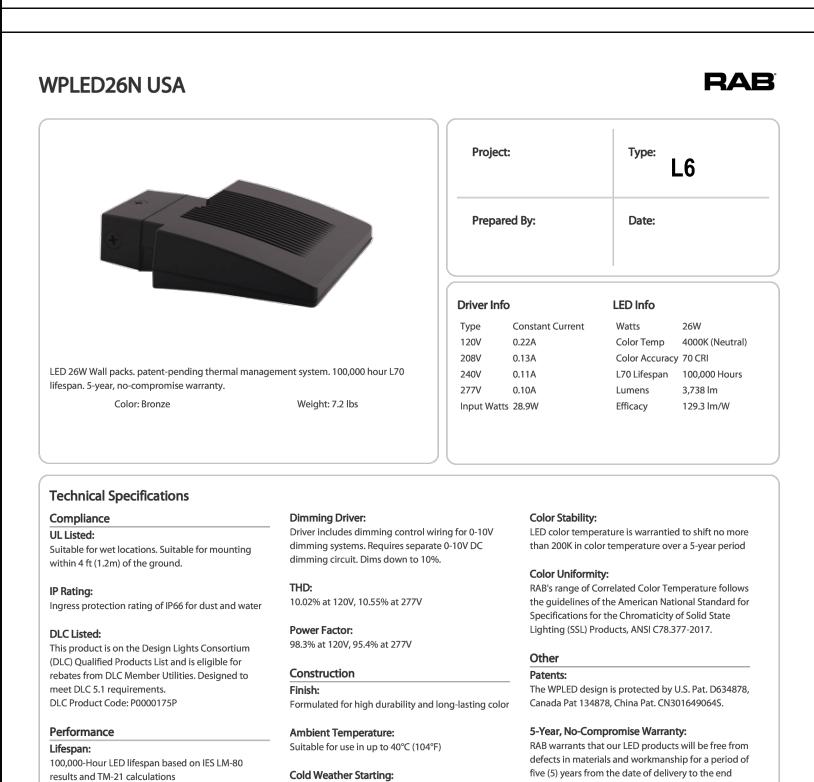
Date: 06/27/25

TCC TEMPERATURE CONTROL CONTRACTOR TCP TEMPERATURE CONTROL PANEL UM UNIT MANUFACTURER UNLESS NOTED OTHERWISE VARIABLE FREQUENCY DRIVE WP WEATHER PROOF ("WHILE-IN-USE")









The minimum starting temperature is -40°C (-40°F)

Mercury and UV free. RoHS-compliant components.

3-step MacAdam Ellipse binning to achieve

consistent fixture-to-fixture color

Green Technology:

**LED Characteristics** 

Color Consistency:

Need help? Tech help line: (888) 722-1000 Email: techsupport@rablighting.com Website: www.rablighting.com

Copyright © 2025 RAB Lighting All Rights Reserved Note: Specifications are subject to change at any time without notice

Wattage Equivalency:

Electrical

Equivalent to 150W Metal Halide

Constant Current, Class 2, 120-277V, 50/60Hz, 120V:

0.22A, 208V: 0.13A, 240V: 0.11A, 277V 0.10A

user, including coverage of light output, color stability, driver performance and fixture finish. RAB's

at rablighting.com/warranty.

FTC Country of Origin:

imported components

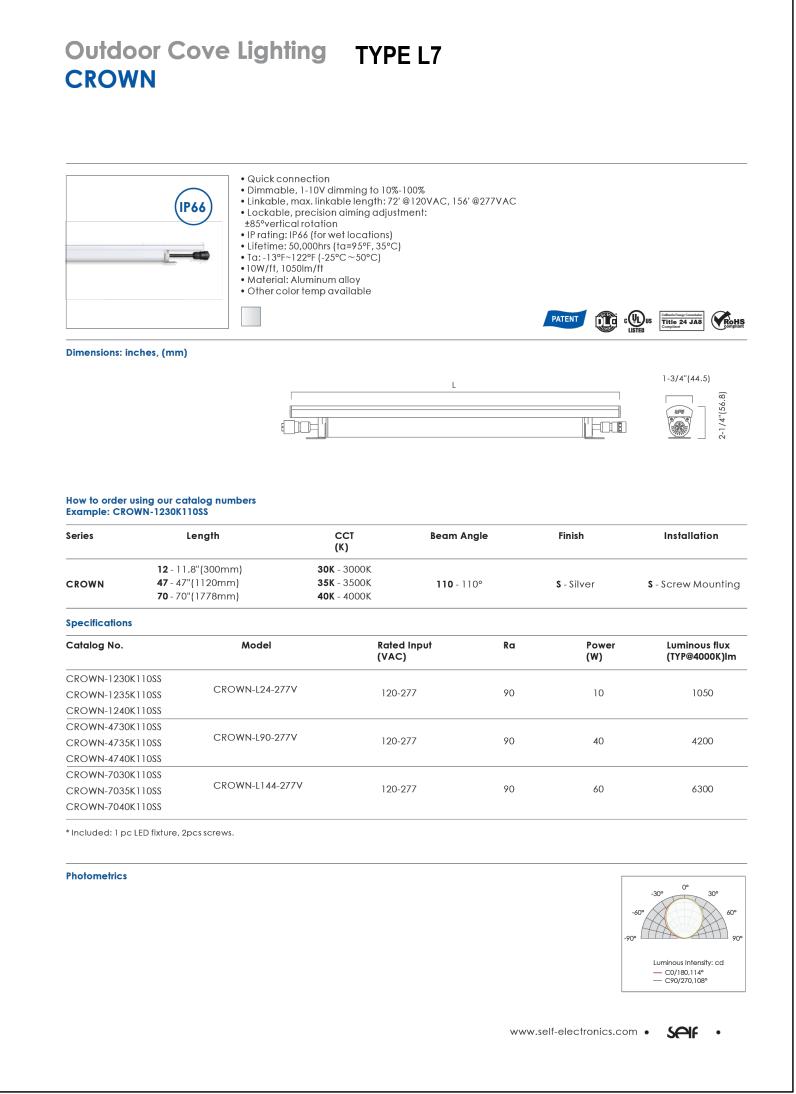
**Buy American Act Compliance:** 

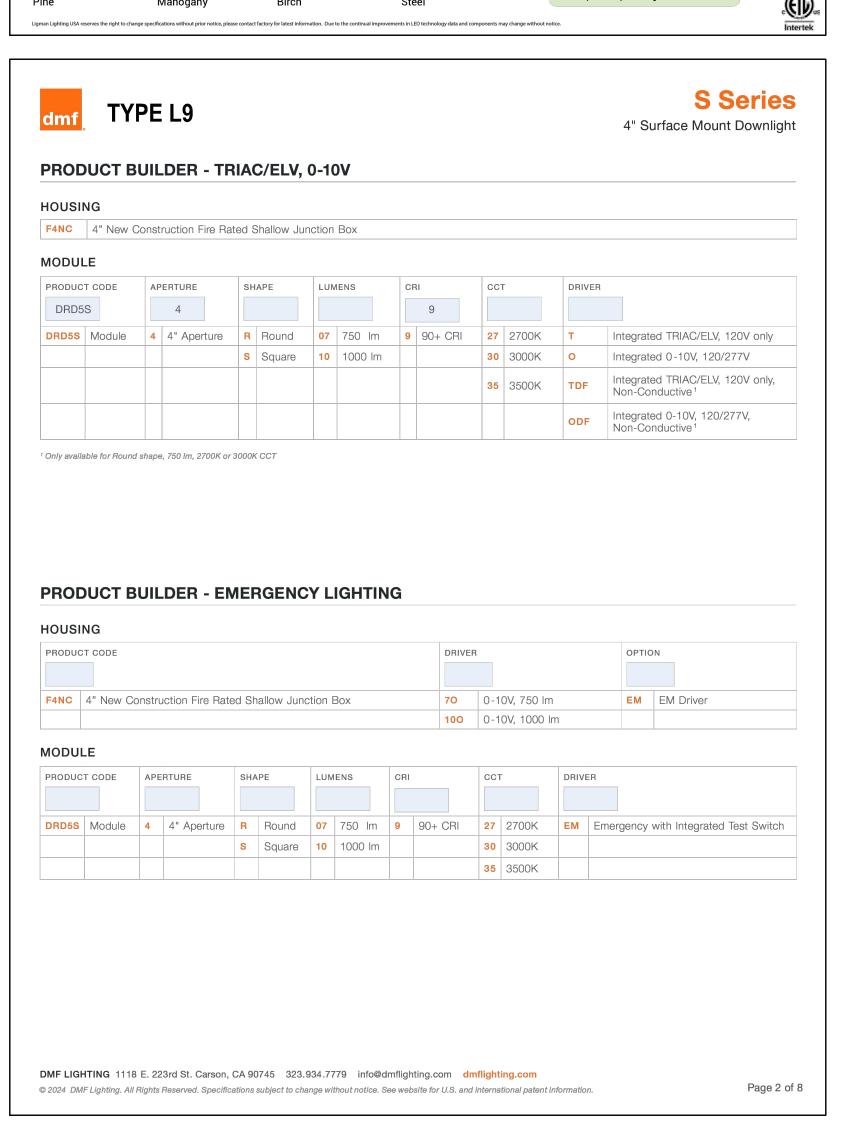
warranty is subject to all terms and conditions found

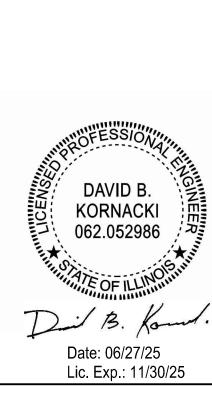
This product was assembled in the USA by RAB using

This product complies with the Buy American Act

Page 1 of 2







AS NOTED 25101

GROU

HEVELOPMENT RVILLE, ILLINOIS

OD

 $\mathbf{SH}$ 

OFFEE

DUTC

CUTSHEETS