



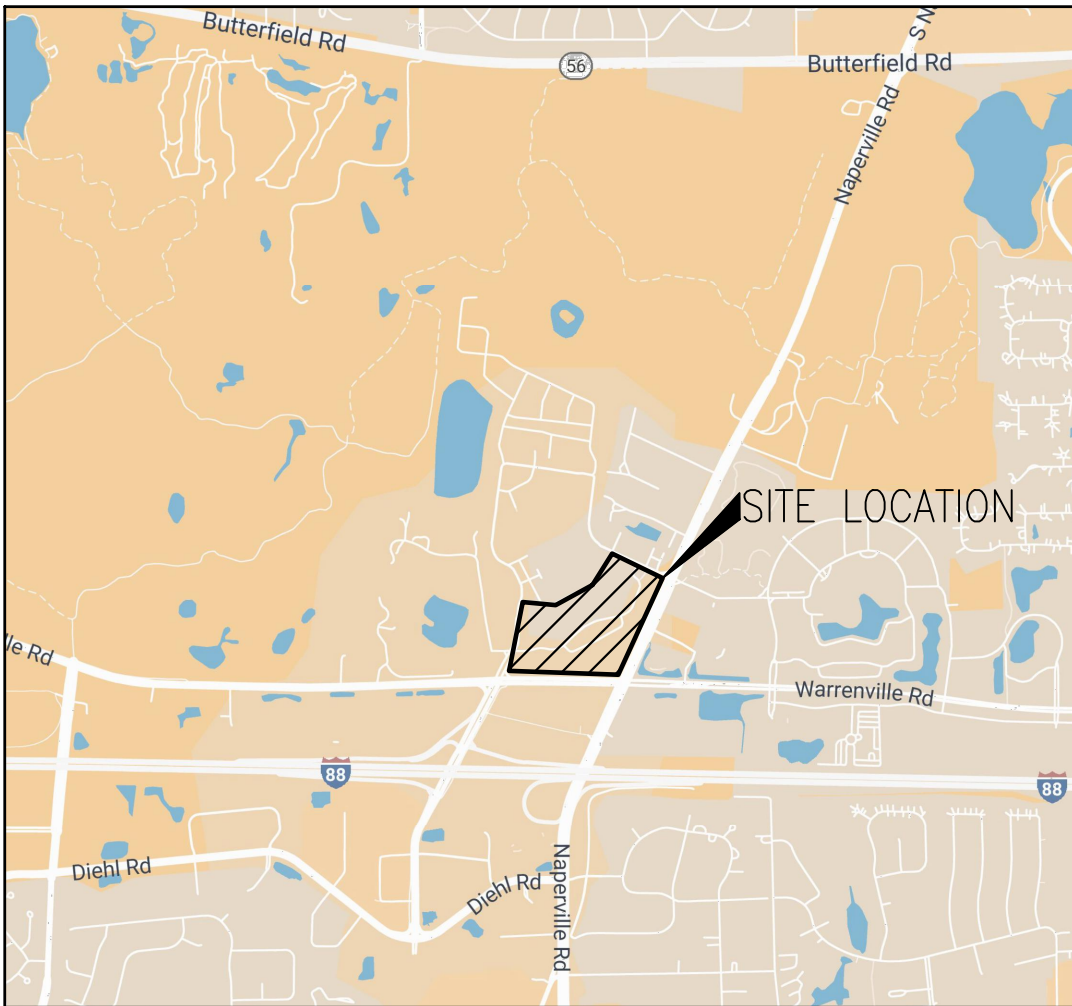
SITE IMPROVEMENT PLANS

FOR

1960 WEST LUCENT LANE

NAPERVILLE, ILLINOIS

KARIS CRITICAL



LOCATION MAP
NOT TO SCALE

DRAWING INDEX

SHEET	TITLE
C1.0	COVER
C2.0	GENERAL NOTES & TYPICAL SECTIONS
C2.1	CITY OF NAPERVILLE SPECIFICATIONS
C3.0 - C3.4	EXISTING CONDITIONS & DEMOLITION PLAN
C4.0 - C4.4	DIMENSIONAL CONTROL & PAVING PLAN
C5.0-5.4	GRADING PLAN
C5.5	DETAILED GRADING PLAN
C6.0 - C6.4	UTILITY PLAN
C6.5 - C6.6	SANITARY PLAN & PROFILE
C7.0 - C7.4	EROSION CONTROL PLAN
C8.0 - C8.1	STORMWATER POLLUTION PREVENTION PLAN & DETAILS
C9.0 - C9.2	DETAILS

ABBREVIATION	LEGEND
ADA	AMERICANS WITH DISABILITIES ACT
B/	BOTTOM OF
BC	BACK OF CURB ELEVATION
C-C	CENTER TO CENTER SPACING
C&G	CURB AND GUTTER
CB	CATCH BASIN
DEP	DEPRESSED
DIP	DUCTILE IRON PIPE
DWS	DETECTABLE WARNING STRIP
EP	EDGE OF PAVEMENT ELEVATION
EX	EXISTING
FH	FIRE HYDRANT
FR	FUTURE
GR	GRADE RING ELEVATION
HC	HANDICAPPED
HWL	POND HIGH WATER LEVEL
I	UTILITY INVERT ELEVATION
MH	MANHOLE
NWL	POND NORMAL WATER LEVEL
PC	PRESSURE CONNECTION
PCC	PORTLAND CEMENT CONCRETE
PR	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
R	UTILITY STRUCTURE RIM ELEVATION
R&R	REMOVE AND REPLACE
RCF	REINFORCED CONCRETE PIPE
STM	STORM SEWER
T/	TOP OF
TC	TOP OF CURB ELEVATION
TDC	TOP OF DEPRESSED CURB ELEVATION
TF	TOP OF FOUNDATION ELEVATION
TW	TOP OF RETAINING WALL ELEVATION
VCP	VITRIFIED CLAY PIPE
VF	VERIFY IN FIELD
Vv	VALVE VAULT
W/	WITH
WM or WTR	WATER MAIN

PROPOSED	DESCRIPTION	EXISTING
	STORM SEWER	
	WATER MAIN WITH SIZE	
	SANITARY SEWER	
	RIGHT-OF-WAY/PROPERTY LINE	
	CONTOUR	
	SPOT GRADE	
	SANITARY MANHOLE	
	STORM MANHOLE	
	STORM INLET	
	STORM CATCH BASIN	
	FIRE HYDRANT	
	PRESSURE CONNECTION	
	GATE VALVE W/VAULT	
	LIGHT POLE	
	STREET LIGHT W/MAST	
	UTILITY POLE	
	SILT FENCE	
	OVERFLOW DIRECTION	
	SURFACE/DITCH FLOW DIRECTION	
	ROAD SIGN	
	CURB & GUTTER	
	DEPRESSED CURB FOR RAMP/DRIVEWAY	
	TOP OF FOUNDATION	
	GARAGE FLOOR, AT REAR OF GARAGE	
	TOP OF CURB, DEPRESSED	
	TOP OF RETAINING WALL	
	RIM FOR STRUCTURES	
	HIGH/NORMAL WATER LEVEL	
	TRANSFORMER	
	FENCE LINE	
	GUARD RAIL	
	FORCE MAIN	
	UNDERGROUND TELEPHONE	
	UNDERGROUND ELECTRIC	
	OVERHEAD ELECTRIC	
	UNDERGROUND GAS LINE	

BENCHMARK & LOCATIONS:

REFERENCE BENCHMARK(S):
CITY OF NAPERVILLE SURVEY MONUMENT STATION NO. 703

BERNSTEIN 3D TOP SECURITY MONUMENT, CONSISTING OF A 9/16" DIAM. 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 6 ALUMINUM ACCESS COVER.

ELEVATION = 780.31 (NAVD 1988)

SITE BENCHMARK(S):

SITE BENCHMARK 1 (SBM 1) (JHA CP 2) - CROSS NOTCH CUT IN TOP OF CURB

SBM 1 IS A CROSS NOTCH CUT IN THE TOP OF CONC. CURB ON THE W. SIDE OF W. LUCENT LN./FREEDOM DR. +-610' N. OF BARKEI LN. NEAR THE NW. COR. OF OUR SITE (W. SIDE OF STREET). "X" IS OPP. THE NW'LY MOST ENTRANCE NEAR THE NW. COR. OF OUR SITE @ 1960 NAPERVILLE WHEATON RD. "X" IS +-0.20'E. OF THE W. BACK OF CURB OF W. LUCENT LN. (NEAR NW. COR. OF SITE)

ELEVATION = 739.86

SITE BENCHMARK 2 (SBM 2) (JHA CP 3) - MAG NAIL SET IN ASPH.

SITE BENCHMARK 2 IS A MAG NAIL SET IN THE ASPH. PATH RUNNING E-W IN THE N'LY. R.O.W. OF WEATHERBEE LN.(AKA LUCENT LN.) NEAR THE NW. COR. OF THE INTERSECTION OF WEATHERBEE LN. & NAPERVILLE RD. NAIL IS +-210' NW. OF THE CENTERLINE OF NAPERVILLE RD. NAIL IS +-7.30' NW. OF THE W. SIDE OF THE DRIVEWAY ENT. 2104-2114 WEATHERBEE LN. (MULTI FAMILY UNITS). NAIL IS +-0.50' NE. OF THE S'LY. EDGE OF PAVE OF THE ASPH. PATH. (NEAR NE. COR. OF SITE)

ELEVATION = 738.01

SITE BENCHMARK 3 (SBM 3) (JHA CP 4) - MAG NAIL SET IN ASPH.

SITE BENCHMARK 3 IS A MAG NAIL SET IN THE ASPH. PATH RUNNING N-S IN THE W'LY. R.O.W. OF NAPERVILLE RD. NEAR THE NW. COR. OF THE INTERSECTION OF NAPERVILLE RD. & WARRENVILLE RD. NAIL IS +-150' NE. OF THE CENTERLINE OF WARRENVILLE RD. NAIL IS +-26' NE. OF A TRAFFIC SIGNAL POST ON A PIECE OF CONC. WALK CONNECTING THE ASPH PATH TO THE CROSSWALK AT THE BACK OF CURB AND NAIL IS +-0.40' W. OF THE E'LY. EDGE OF PAVEMENT OF THE ASPH. PATH. (NEAR THE SE. COR. OF SITE)

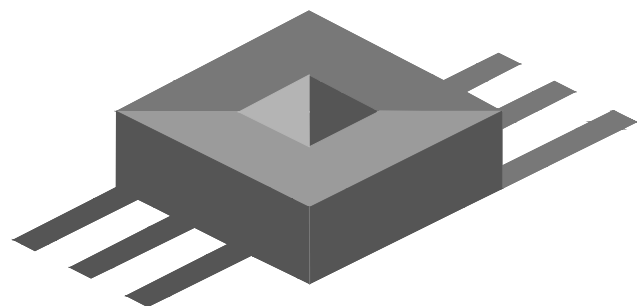
ELEVATION = 736.11

SITE BENCHMARK 4 (SBM 4) (JHA CP 1) - MAG NAIL SET IN ASPH.

SBM 4 IS A MAG NAIL SET IN THE ASPH. PATH RUNNING E-W ALONG THE N. R.O.W. OF WARRENVILLE RD. NEAR THE SW. COR. OF OUR SITE, ALSO BEING NEAR THE NE. COR. OF THE INTERSECTION OF WARRENVILLE RD. & LUCENT LN./FREEDOM DR. NAIL IS +-57' E. OF THE POINT WHERE THE W. END OF THE ASPH. PATH CONNECTS TO THE CONC. WALK AT THAT INTERSECTION. NAIL IS +-41' NE. OF A STORM MANHOLE IN THE RIGHT TURN LANE TO TURN FROM WARRENVILLE RD. ON TO LUCENT LN./FREEDOM DR. (NEAR SW. COR. OF SITE)

ELEVATION = 755.74

No.	Description	Date
4	REVISED PER CITY COMMENTS	09/26/25
3	REVISED PER CITY COMMENTS	07/31/25
2	REVISED PER CITY COMMENTS	06/12/25
1	ORIGINAL PLAN DATE	04/07/25



JACOB & HEFNER
ASSOCIATES

1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515

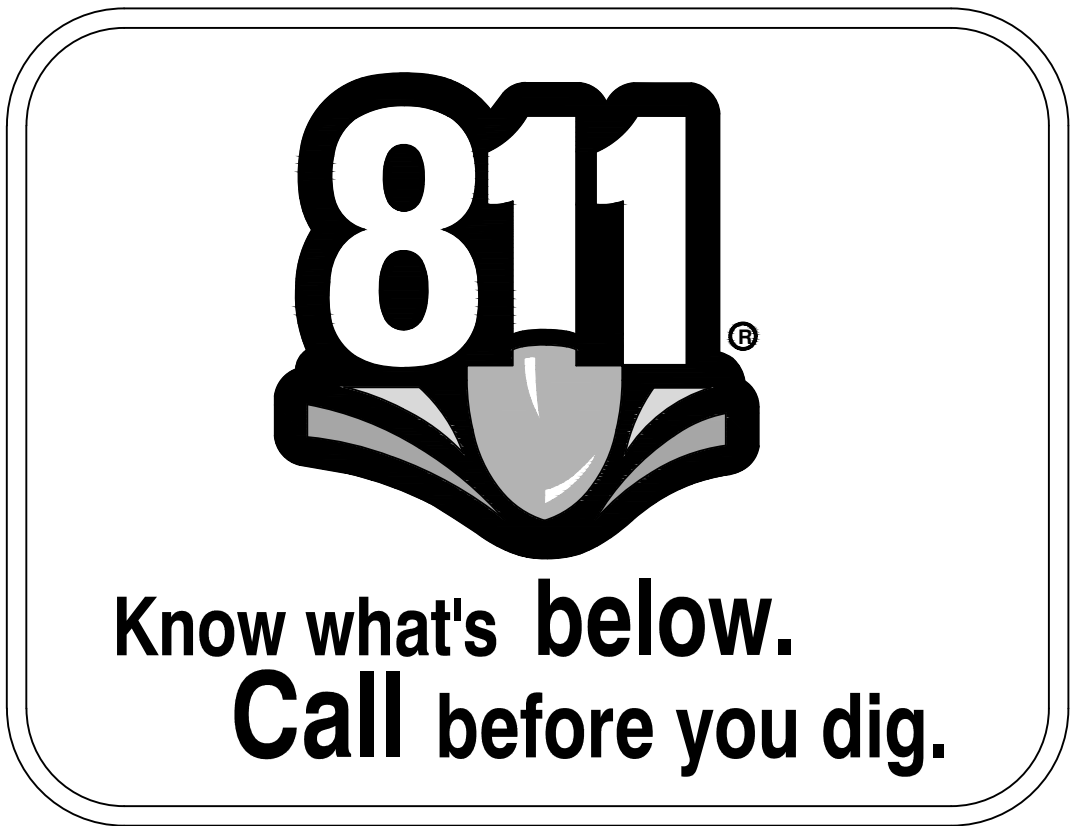
PHONE: (630) 652-4600, FAX: (630) 652-4601

www.jacobandhefner.com

FOR REVIEW PURPOSES ONLY

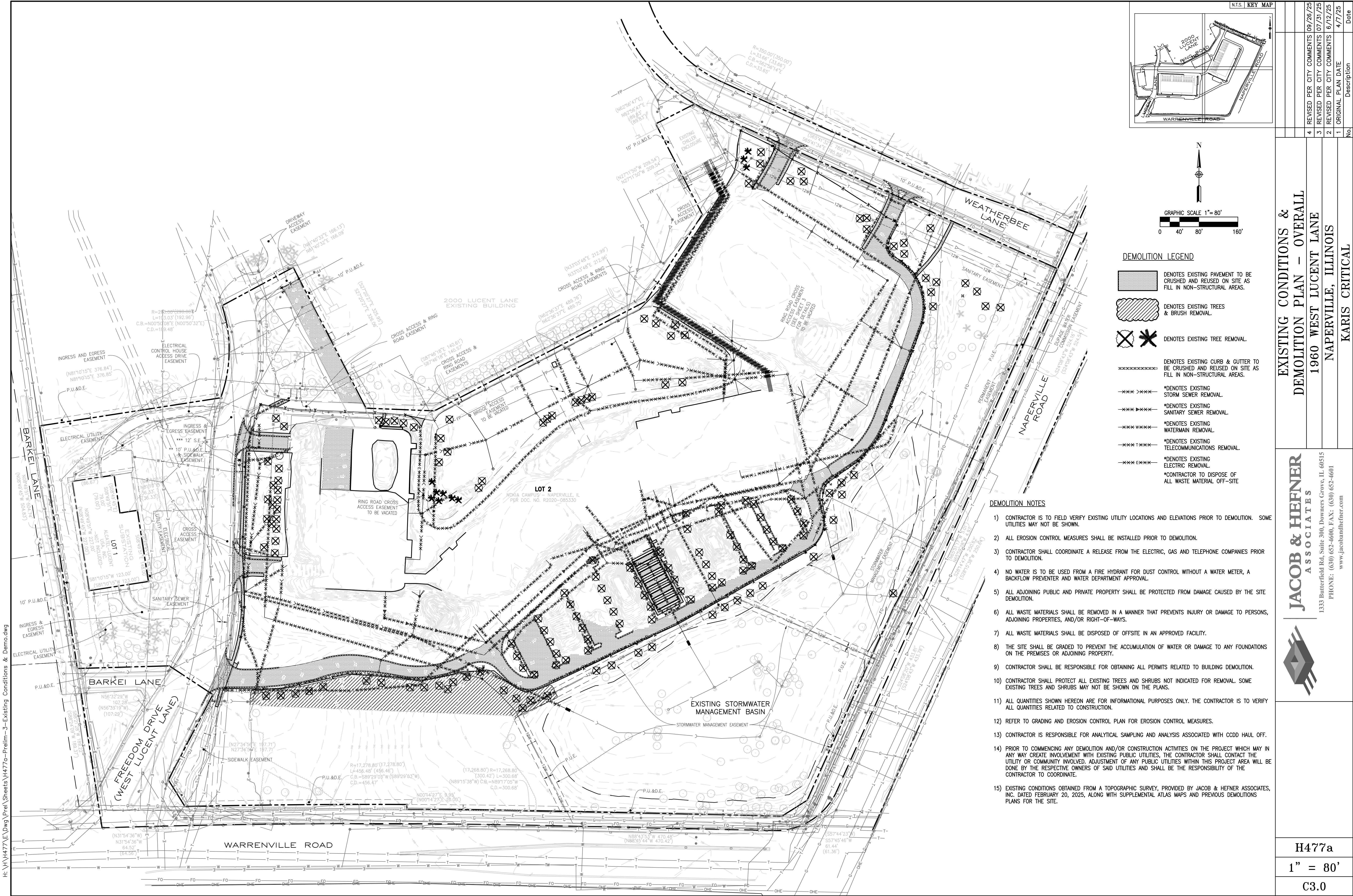


Municipality: Naperville
County: DuPage
Township: 38N
Range: 10E
Section: 5

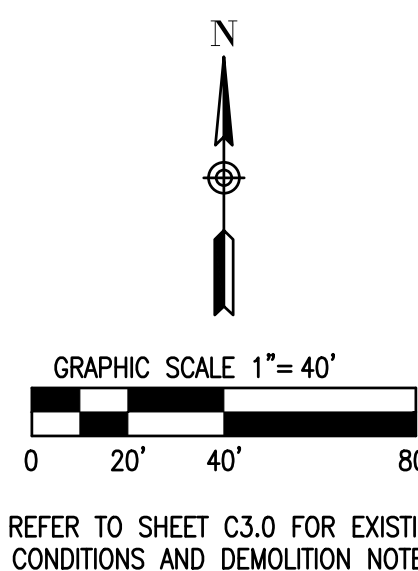
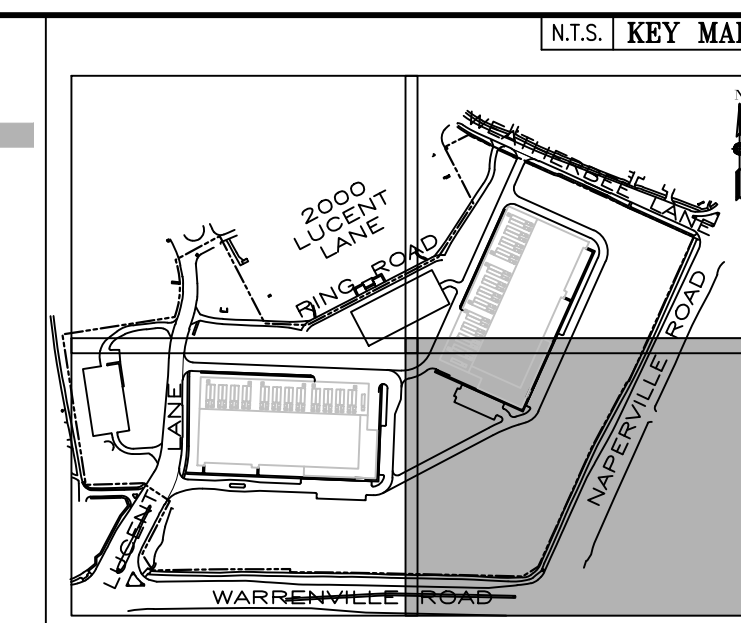
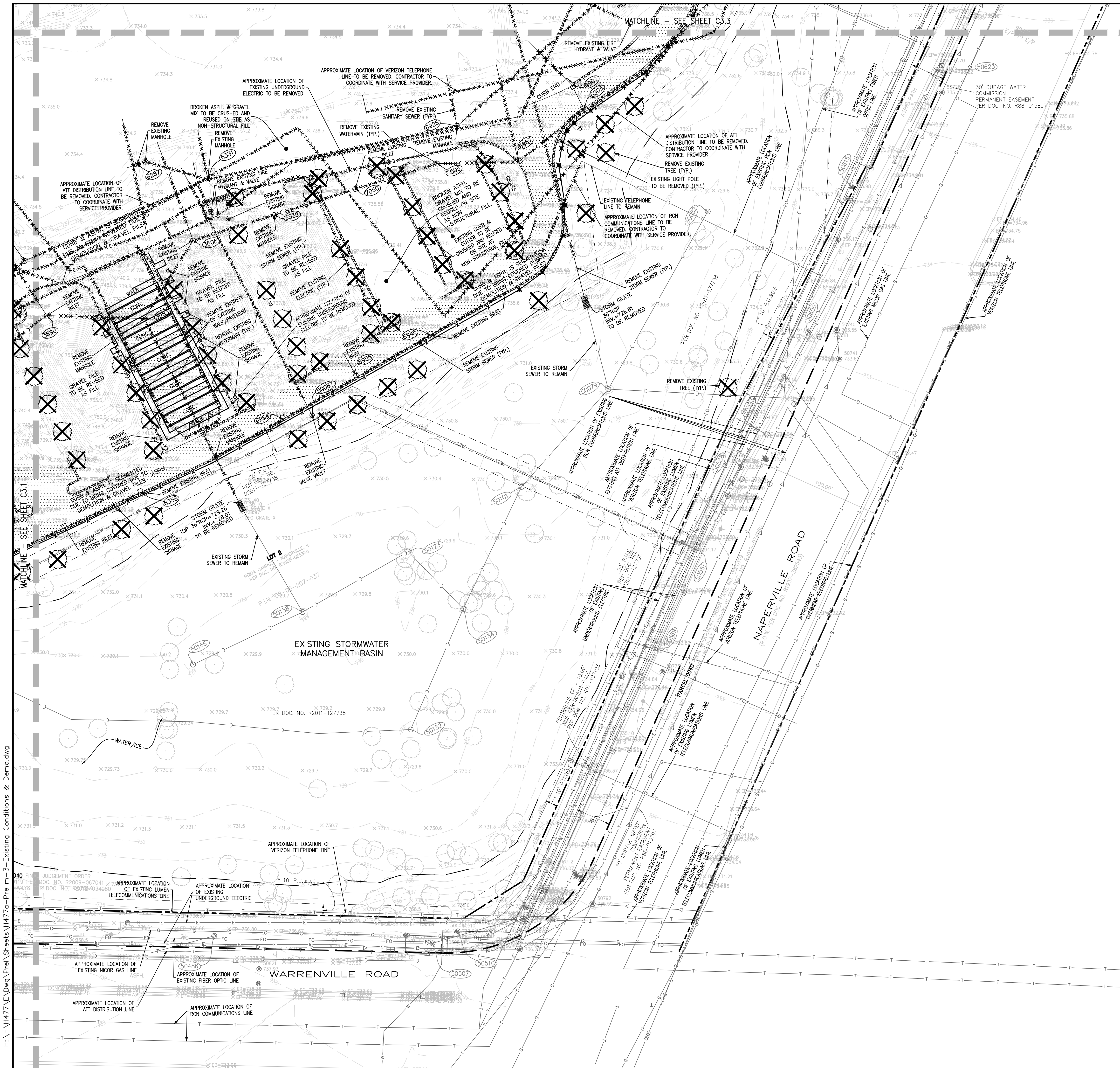


CITY OF NAPERVILLE GEOMETRIC & PAVING NOTES			CITY OF NAPERVILLE STORM SEWER NOTES			CITY OF NAPERVILLE WATER UTILITIES GENERAL NOTES			CITY OF NAPERVILLE SPECIFICATIONS					
1. THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER 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. 2. ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER. 3. 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. 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, REGARDLESS 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. NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER. 2. THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY 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, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 114 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT. 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 IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS. 5. BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE COMPACTED TO 90% STANDARD PROCTOR DENSITY. 6. JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS; CASCADE CSS, ROMAC LSS, FERROCO, INC. SHEAR RING, OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, CLASS, AND DATE OF ISSUE SHALL BE CLEARLY IDENTIFIED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BILLS OF LADING, OR OTHER QUALITY ASSURANCE DOCUMENTATION WHEN REQUESTED BY THE CITY ENGINEER. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL. 7. MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 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 NAPERVILLE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER. 8. MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED EQUAL) WITH THE WORD "STORM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED ASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC 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 ALIGNMENT, IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLENE 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 NAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER-TIGHT AT ALL POINTS BELOW GRADE. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER. CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES 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 GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, OR APPROVED EQUAL. 10.c. DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, OR APPROVED EQUAL. 10.d. MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, OR APPROVED EQUAL. 10.e. NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, OR APPROVED EQUAL, ALTERNATELY IN AREAS WHERE THERE IS THE LIKELIHOOD OF PEDESTRIAN TRAFFIC, EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED. 11. THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT, AND SHALL BE OF LEAK PROOF CONSTRUCTION, CAPABLE OF WITHSTANDING THE ANTICIPATED LOADINGS. SEE TABLE 200-1 IN THE NAPERVILLE STANDARD SPECIFICATIONS FOR THE MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING DIAMETERS. THE STEEL CASING PIPE SHALL HAVE A MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL MEET THE REQUIREMENTS OF A138/A139M-04 (OR LATEST EDITION). GRADE B RING DEFLECTION SHALL NOT EXCEED 2% OF THE NOMINAL DIAMETER. THE STEEL CASING PIPE SHALL BE DELIVERED TO THE JOBSITE WITH BEVELED ENDS TO FACILITATE FIELD WELDING. 12. ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS. ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LIFT HOLES TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE TOWERN SEWER AND SANITARY SEWER BE ALLOWED. 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 UNDERGRAN 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.			a. NEW WATER MAIN VALVES, INCLUDING PRESSURE TAP VALVES, ADJACENT TO AN EXISTING WATER MAIN, AND EXISTING WATER MAIN VALVES SHALL ONLY BE OPERATED BY THE CITY OF NAPERVILLE, DEPARTMENT OF PUBLIC UTILITIES CEE/OM DIVISION PERSONNEL WITH 48-HOUR NOTICE (MONDAY-FRIDAY). CONTACT NAPERVILLE TED BUSINESS GROUP AT 630-420-6082 FOR SCHEDULING. b. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED. ALL STRUCTURE FRAMES SHALL BE FLUSH WITH FINAL GRADE. c. TREES SHALL BE INSTALLED A MINIMUM OF FIVE (5) FEET HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES. TREES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVE VAULTS, VALVE BOXES AND FIRE HYDRANTS. NO TREES, SHRUBS OR OBSTACLES WILL BE ALLOWED 10' IN FRONT OF, 5' ON THE SIDES, AND 7' TO THE REAR OF THE ELECTRICAL TRANSFORMER. d. ALL RETAINER GLANDS WHEN REQUIRED TO RESTRAIN VALVES, FITTINGS, HYDRANTS, AND PIPE JOINTS SHALL BE MECHANICAL JOINT WEDGE ACTION TYPE MEGALUG 1100 SERIES AS MANUFACTURED BY EBSA IRON, INC. OR UN-FLANGE BLOCKBUSTER 1400 SERIES AS MANUFACTURED BY FORD METER BOX CO. AND SHALL BE FOR USE ON DUCTILE IRON PIPE CONFORMING TO AWS/AWWA C151/A21.51, FOR NOMINAL PIPE SIZES 3" THROUGH 48". e. EXISTING DUCTILE IRON SYSTEMS FOR RESTRAINING PUSH-ON PIPE BELLS SHALL BE MEGALUG SERIES 1100HD OR FORD SERIES 1300. f. EXISTING DUCTILE IRON SYSTEMS REQUIRING RESTRAINT SHALL BE MEGALUG SERIES 1100SD (SPLIT MEGALUG) FOR MECHANICAL JOINTS. g. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH AWS/AWWA C105/A21.5-05. h. A SET OF AS-BUILT RECORD DRAWING SHALL BE GIVEN TO THE CITY OF NAPERVILLE UPON COMPLETION OF IMPROVEMENTS SHOWING THE ELEVATION AND LOCATION (TIED TO TWO POINTS) OF ALL NEW AND EXISTING STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), AND ABANDONED WATER OR SANITARY SERVICE LINES. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO THE SIDES, BACK OF CURB, OR PROPERTY CORNERS. i. ALL SANITARY SEWER PIPING SHALL BE PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241 WITH JOINTS CONFORMING TO ASTM D-3139. ALL SANITARY SEWER FITTINGS SHALL BE PVC MEETING THE FOLLOWING REQUIREMENTS: 4" TO 12" SHALL BE INJECTION MOLDED FITTINGS MEETING ASTM D-2241. GREATER THAN 12" SHALL BE FABRICATED FITTINGS MEETING ASTM D-2241 OR C905. MINIMUM PRESSURE RATING SHALL BE 150 PSI. j. THE VALVES LESS THAN 16" SHALL BE STANDARD PATTERN, GATE VALVES AND SHALL HAVE THE NAME OR MARK OF THE MANUFACTURER, SIZE AND WORKING PRESSURE PLAINLY CAST IN RAISED LETTERS ON THE VALVE BODY. VALVES MAY BE APPROVED FROM ONE OF THE FOLLOWING MANUFACTURERS: AMERICAN, CLOW, WATERLOUS OR KENNEDY. k. STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SEIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS – ANY DAMAGE TO THIS COATING SHALL BE REPAIR WITH FIELD APPLIED APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEEZ OR APPROVED EQUAL. l. THE CONTRACTOR SHALL ROTATE AND/OR ADJUST ANY EXISTING AND/OR NEW HYDRANT TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC UTILITIES. m. WATER MAINS SHALL BE SUBJECTED TO A HYDROSTATIC/LEAKAGE TEST IN ACCORDANCE WITH NAPERVILLE STANDARD SPECIFICATIONS. TEST PRESSURE SHALL BE NO LESS THAN 150 PSI FOR A PERIOD OF 4 HOURS AND NOT VARY BY MORE THAN ± 5 PSI. DURING THE TEST, THE TEST GAUGE SHALL BE APPROVED BY THE CITY AND SHALL BE COVERED OR OIL FILLED WITH A RANGE OF NOT MORE THAN 200 PSI AND INCREMENTS NOT GREATER THAN 5 PSI, 4 " MINIMUM DIA. SIZE. WATER RECOVERY TEST SHALL BE COMPLETED AT THE END OF THE TESTING PERIOD TO SHOW ACTUAL LEAKING AND THAT THE WATER MAIN DID NOT HAVE TOO MUCH TRAPPED AIR IN THE TESTED SECTION. n. THE CITY OF NAPERVILLE PUBLIC UTILITIES DOES NOT GUARANTEE THAT ANY VALVE OR FITTING IN THE EXISTING WATER DISTRIBUTION SYSTEM WILL HOLD AGAINST A HYDROSTATIC/LEAKAGE TEST. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AND ACCEPTABLE PRESSURE TEST WHICH SHALL INCLUDE PROVISIONS AROUND EXISTING VALVES AND FITTINGS. o. FIRE HYDRANT SHOULD BE BAGGED "NOT IN SERVICE" UNTIL ALL TESTING AND DISINFECTION HAS BEEN COMPLETED AND NEW WATER MAIN SECTION IS SERVICE. p. SANITARY SEWER AND WATER SHALL BE CONSTRUCTED, TESTED, AND PLACED INTO SERVICE IN ACCORDANCE WITH CITY OF NAPERVILLE STANDARD SPECIFICATION AND SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION. q. ALL VALVE BOXES, HYDRANTS, AND MANHOLES SHALL NOT BE COVERED WITH CONSTRUCTION DEBRIS AND SHALL REMAIN ACCESSIBLE TO THE RESPECTIVE UTILITY COMPANY. r. WATER SERVICE LINE SMALLER THAN 3" SHALL BE TYPE K COPPER. IF JOINTS ARE REQUIRED DUE TO LENGTH OF SERVICE, THEN ONLY COMPRESSION TYPE COUPLING SHALL BE PERMITTED. NO SOLDERED OR FLARED TYPE JOINTS ARE ALLOWED. s. ALL SANITARY MANHOLES SHALL BE TESTED FOR LEAKAGE BY VACUUM TESTING. THE MANHOLE FRAME AND ADJUSTING RINGS SHALL BE IN PLACE WHEN TESTING. ANY LEAKS SHALL BE REPAIRED FROM EXTERIOR OF MANHOLE – PATCHING INSIDE OF MANHOLE SHALL NOT BE ACCEPTABLE. A VACUUM OF 10" (254 MM) HG SHALL BE PLACE ON THE MANHOLE AND THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9" (229 MM) HG. THE VACUUM SHALL NOT DROP BELOW 9" (229 MM) HG FOR THE FOLLOWING TIME PERIODS FOR EACH SIZE OF MANHOLE: a) 48-INCH DIAMETER – 60 SECONDS b) 60-INCH DIAMETER – 75 SECONDS c) 72-INCH DIAMETER – 90 SECONDS d) 84-INCH DIAMETER – 105 SECONDS t. ANY MANHOLES THAT FAIL THE TEST SHALL BE SEALED AND RE-TESTED UNTIL ACCEPTABLE. u. THE CONTRACTOR SHALL PROVIDE INTERNAL TELEVIEWED INSPECTION OF ALL INSTALLED SANITARY SEWER, LATERALS, MANHOLES AND CONNECTIONS TO THE PUBLIC SYSTEM FOLLOWING COMPLETION OF TELEVIEWING WORK. THE CONTRACTOR SHALL SUBMIT VIDEO RECORDINGS ON DVD OR FLASH DRIVE ALONG WITH A COMPREHENSIVE TELEVIEWING REPORT WHICH WILL INDICATE THE LOCATION, FOOTAGES AND NATURE OF ANY DEFECTS. PRIOR TO FINAL ACCEPTANCE, THESE DEFECTS SHALL BE REPAIRED TO THE SATISFACTION OF THE WATER/WASTEWATER UTILITY AND RE-TELEVIEWED. v. CONTRACTOR WORK HOURS ARE ONLY ALLOWED FROM 7:00 A.M. TO 5:00 P.M., MONDAY THROUGH SATURDAY. NO WORK SHALL BE PERMITTED ON SUNDAYS. w. SANITARY PIPES WITH LESS THAN 4 FEET OR MORE THAN 25 FEET OF COVER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPING (CLASS 50, MINIMUM) AND ENCASED IN POLYWRAP. x. ALL EXCAVATIONS MORE THAN 20 FEET DEEP MUST BE PROTECTED BY A SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. y. CONTRACTOR SHALL MAINTAIN 2' MINIMUM CLEARANCE BETWEEN EXISTING UTILITIES AND NEW FOUNDATIONS AND UNDERGROUND FACILITIES. IN AREAS WHERE FOUNDATIONS AND UNDERGROUND FACILITIES ARE PROPOSED ADJACENT TO EXISTING UTILITIES, THE CONTRACTOR SHALL POT HOLE BY VACUUM EXCAVATION OR HAND EXCAVATION TO LOCATE THE EXISTING UTILITY TO VERIFY MINIMUM CLEARANCE REQUIREMENT. z. FENCES SHALL BE INSTALLED A MINIMUM OF 5 FEET FROM ANY WATER OR SANITARY MAINS WHEN RUNNING PARALLEL WITH THEM. WHERE FENCES ARE INSTALLED CROSSING WATER OR SANITARY MAINS, THE POSTS SHALL BE LOCATED TO HAVE THE MAIN BETWEEN THEM. aa. ALL BRASS COMPONENTS SHALL BE CERTIFIED TO BE LEAD FREE IN COMPLIANCE WITH NSF 61 AND NSF 372 AND IDENTIFIED WITH APPLICABLE MARKINGS. ab. SANITARY FORCE MAIN – FORCE MAIN SHALL BE TESTED A MINIMUM OF 1 HOUR AT 1.5 THE SHUT OFF HEAD OF THE PUMP, 2.5 TIMES THE OPERATING PRESSURE, OR 20 PSI WHICHEVER IS GREATEST. ALLOWABLE LEAKAGE SHALL BE IN ACCORDANCE WITH SECTION 41-2.14C OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION.								
CITY OF NAPERVILLE TRAFFIC CONTROL & PROTECTION NOTES 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 (MUTCD), LATEST EDITION. TRAFFIC CONTROL MUST BE 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 EXITING THE PUBLIC ROADWAY. ALL TRAFFIC CONTROL SET-UPS MAY BE INSPECTED BY THE CITY OF NAPERVILLE TO ENSURE THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH 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 PEDESTRIANS SO THAT THEY MAY AVOID THE WORK ZONE. SMO PEDESTRIAN DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE CITY IN WRITING, PRIOR TO THE COMMENCEMENT OF THE WORK. 3. THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SUCH THAT THE SAFETY OF VEHICLES, AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER. 4. ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS. 5. LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6 AM – 9 AM AND 3 PM – 7 PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE 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 ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS AS DESIGNATED ON THE CITY'S MASTER THOROUGHFARE PLAN, LATEST EDITION. 6. ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN 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 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 PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY. 4. ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED. 5. ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER. 6. ALL OPEN GRADE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. INLET BASKETS ARE THE PREFERRED METHOD; STRAW BALES SHALL NOT BE USED. 7. STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED. 8. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION. 9. IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.											

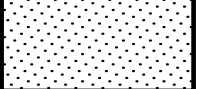
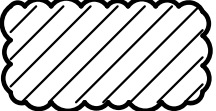
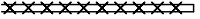
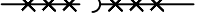
H:\H477a\Drawings\Pre\Drawings\H477a-Pre\3-Existing Conditions & Demo.dwg



EXISTING CONDITIONS & DEMOLITION PLAN - OVERALL		1960 WEST LUCENT LANE		NAPERVILLE, ILLINOIS		KARIS CRITICAL	
H477a		1" = 80'		C3.0			
No.	Description	Original Plan Date	Revised Per City Comments	Revised Per City Comments	Revised Per City Comments	Revised Per City Comments	Date
1	ORIGINAL PLAN DATE	4/7/25					
2	REVISD PER CITY COMMENTS	6/12/25					
3	REVISD PER CITY COMMENTS	07/31/25					
4	REVISD PER CITY COMMENTS	09/26/25					



DEMOLITION LEGEND

- | | |
|---|---|
|  | <p>DENOTES EXISTING PAVEMENT TO BE CRUSHED AND REUSED ON SITE AS FILL IN NON-STRUCTURAL AREAS.</p> |
|  | <p>DENOTES EXISTING TREES & BRUSH REMOVAL.</p> |
|   | <p>DENOTES EXISTING TREE REMOVAL.</p> |
|  | <p>DENOTES EXISTING CURB & GUTTER TO BE CRUSHED AND REUSED ON SITE AS FILL IN NON-STRUCTURAL AREAS.</p> |
|  | <p>*DENOTES EXISTING STORM SEWER REMOVAL.</p> |
|  | <p>*DENOTES EXISTING SANITARY SEWER REMOVAL.</p> |
|  | <p>*DENOTES EXISTING WATERMAIN REMOVAL.</p> |
|  | <p>*DENOTES EXISTING TELECOMMUNICATIONS REMOVAL.</p> |
|  | <p>*DENOTES EXISTING ELECTRIC REMOVAL.</p> |
| | <p>*CONTRACTOR TO DISPOSE OF ALL WASTE MATERIAL OFF-SITE</p> |

WATER STRUCTURE TABLE – SHEET C3.2

STRUCTURE#	TYPE	RIM ELEVATION	INVERT
50510	WATER VALVE VAULT	737.04	TOP OF WATER=728.49 WATER FILLED-NO ACCESSIBLE PIPES
50569	WATER VALVE VAULT	734.22	TOP +18"DIP SW-NE=727.37
50615	WATER VALVE VAULT	735.98	TOP 18"DIP E-W=730.88
50581	WATER VALVE VAULT	734.32	TOP +18"DIP N-S=728.32
50087	WATER VALVE VAULT	736.24	TOP DIP NW-SE=727.94 WATER LINE=730.04

SANITARY STRUCTURE TABLE – SHEET C3.2

STRUCTURE#	TYPE	RIM ELEVATION	INVERT
6351	SANITARY MANHOLE	737.12	LID FROZEN—NOT ACCESSIBLE
50588	SANITARY MANHOLE	732.85	I(E)-W)12'DIP= 724.70
6926	SANITARY MANHOLE	735.95	I(N)8"PVC= 726.90 I(NW-SE)12"PVC= 725.10

STORM STRUCTURE TABLE – SHEET C3.2

STRUCTURE#	TYPE	RIM ELEVATION	INVERT
6358	STORM INLET	734.85	LID FROZEN-NOT ACCESSIBLE
6287	STORM MANHOLE	739.33	I(W)6"VERT, PIPE=727.53 TOP OF 6" PIPE=732.18
50507	STORM MANHOLE	737.23	I(E-W)36"RCP=728.93
50486	STORM MANHOLE	737.13	I(SW)+36"RCP-OFFSET-NOT ACCESSIBLE NO OTHER ACCESSIBLE PIPES
50522	STORM MANHOLE	736.52	I(SW-NE)36"RCP=728.17
50593	STORM MANHOLE	734.10	I(E)18"RCP-OFFSET-NOT ACCESSIBLE I(W)18"RCP=726.80 NO OTHER VISIBLE PIPES
50600	STORM MANHOLE	735.26	I(E)18"RCP-OFFSET-NOT ACCESSIBLE I(W)18"RCP=726.36
50623	STORM MANHOLE	737.28	I(N,E)12"RCP=729.28 I(S)18"RCP=729.28
7005	STORM INLET	735.11	SILT TRAP FULL-NOT ACCESSIBLE
7050	STORM INLET	735.14	I(SW-NE)18"RCP=731.04
6967	STORM INLET	735.33	LID FROZEN-NOT ACCESSIBLE
6903	STORM INLET	737.36	LID FROZEN-NOT ACCESSIBLE
6964	STORM INLET	734.83	LID FROZEN-NOT ACCESSIBLE
6902	STORM INLET	737.23	LID FROZEN-NOT ACCESSIBLE
3539	STORM INLET	735.09	I(E-W)18"RCP=730.44
3608	STORM INLET	737.31	I(N)12"PVC=731.81 I(E)18"RCP=729.41
3983	STORM MANHOLE	739.11	I(SW)24"RCP=729.41 I(NE,W)24"RCP=728.86 I(SE)36"RCP=728.86
3690	STORM INLET	737.41	SILT TRAP FROZEN IN STRUCTURE-NOT ACCESSIBLE
6955	STORM INLET	734.90	LID FROZEN-NOT ACCESSIBLE
6946	STORM INLET	734.79	LID FROZEN-NOT ACCESSIBLE
50166	STORM INLET-BEEHIVE	728.93	I(NE)6"PVC=726.48
50138	STORM INLET-BEEHIVE	728.89	I(NE)10"PVC=726.24 I(SW)6"PVC=726.24
50123	STORM INLET-BEEHIVE	728.83	I(SE,SW)10"PVC=725.35
50134	STORM INLET-BEEHIVE	728.94	I(NE,NW)10"PVC=725.64 I(SW)10"PVC-NOT ACCESSIBLE
50182	STORM INLET-BEEHIVE	728.84	I(NE,W)10"CLAY=726.09
50101	STORM INLET-BEEHIVE	728.80	I(NE,W)10"PVC=725.45
50079	STORM INLET-BEEHIVE	728.85	I(NE,W)10"PVC=725.30
50052	STORM INLET-BEEHIVE	728.93	I(SW)10"PVC=725.78

EXISTING CONDITIONS &
DEMOLITION PLAN - SOUTHEAST
1960 WEST LUCENT LANE
NAPERVILLE, ILLINOIS
KARIS CRITICAL

JACOB & HEFNER
ASSOCIATES



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

Butterfield Rd., Suite 300, Downers Grove, IL 60141
 PHONE: (630) 652-4600, FAX: (630) 652-4601
www.jacobandhefner.com

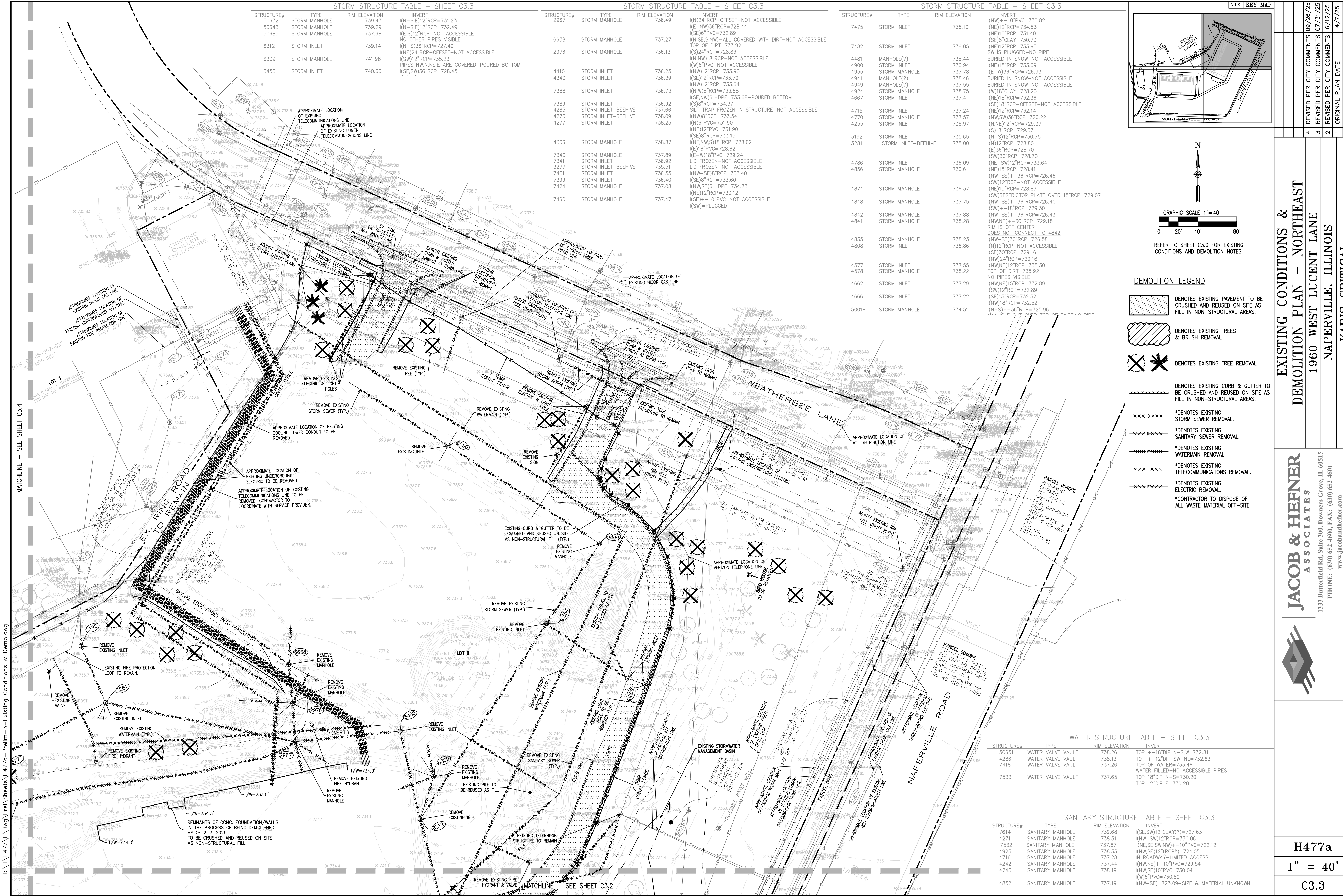
(630) 652-4600, FAX: (630) 652-4601
www.jacobandhefner.com

KARIS CRITICAL

H477a

$$1'' = 40'$$

C3.2

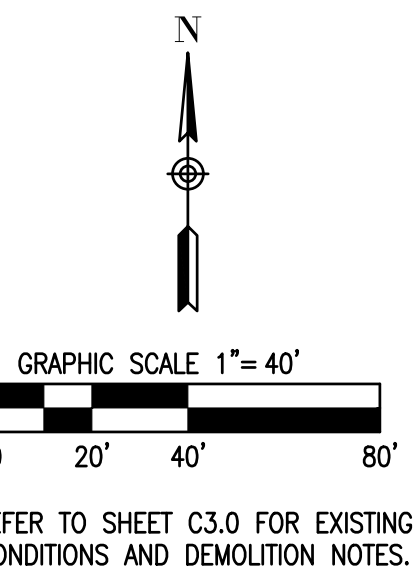
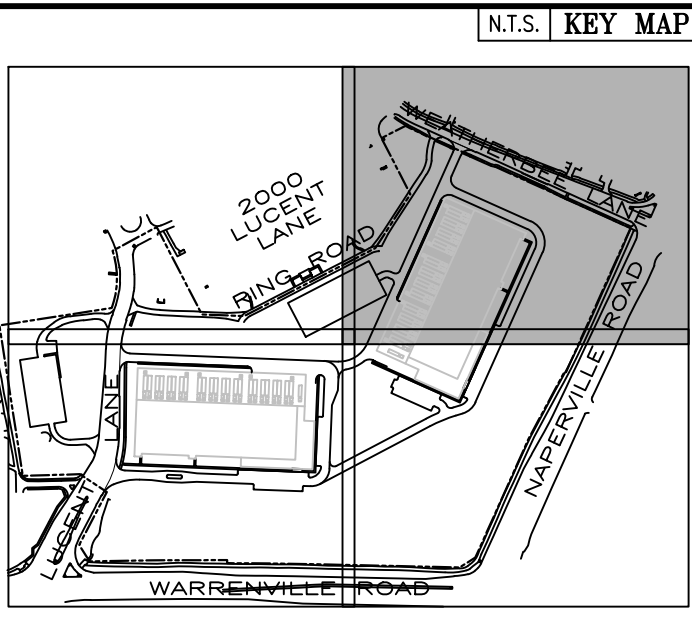


H:\H477a\Drawings\H477a-Prelim-3-Existing Conditions & Demo.dwg
H:\H477a\Drawings\H477a-Prelim-3-Existing Conditions & Demo.dwg

STORM STRUCTURE TABLE - SHEET C3.3			
STRUCTURE#	TYPE	RIM ELEVATION	INVERT
50632	STORM MANHOLE	739.43	(N-S,E)12"RCP=731.23
50643	STORM MANHOLE	739.29	(N-S,E)12"RCP=732.49
50685	STORM MANHOLE	737.98	(E-S)12"RCP-NOT ACCESSIBLE NO OTHER PIPES VISIBLE
6312	STORM INLET	739.14	(N-S)36"RCP=727.49
6309	STORM MANHOLE	741.98	(NE)24"RCP-OFFSET-NOT ACCESSIBLE (SW)12"RCP=735.23 PIPES NW,N,NE,E ARE COVERED-POURED BOTTOM
3450	STORM INLET	740.60	(SE,SW)36"RCP=728.45

STORM STRUCTURE TABLE - SHEET C3.3			
STRUCTURE#	TYPE	RIM ELEVATION	INVERT
2967	STORM MANHOLE	736.49	(N)24"RCP-OFFSET-NOT ACCESSIBLE (E-W)36"RCP=728.44 (SE)6"PVC=732.89
6638	STORM MANHOLE	737.27	(N,SE,S,W)-ALL COVERED WITH DIRT-NOT ACCESSIBLE TOP OF DIRT=733.92
2976	STORM MANHOLE	736.13	(S)24"RCP=728.83 (N,N,W)18"RCP-NOT ACCESSIBLE (W)6"PVC-NOT ACCESSIBLE (NW)12"RCP=733.90 (SE)12"RCP=733.79 (NW)12"RCP=733.64 (N,W)8"RCP=733.68 (SE,NW)6"HDPE=733.68-POURED BOTTOM (S)8"RCP=734.37 SILT TRAP FROZEN IN STRUCTURE-NOT ACCESSIBLE (NW)8"RCP=733.54 (N)6"PVC=731.90 (NE)12"RCP=731.90 (SE)8"RCP=733.15 (NE,NW,S)18"RCP=728.62 (E)18"PVC=728.82 (E-W)18"PVC=729.24 LID FROZEN-NOT ACCESSIBLE LID FROZEN-NOT ACCESSIBLE (NW-SE)8"RCP=733.40 (SE)8"RCP=733.60 (NW,SE)6"HDPE=734.73 (NW)12"RCP=730.12 (SE)+-10"PVC-NOT ACCESSIBLE (SW)=PLUGGED
4410	STORM INLET	736.25	
4340	STORM INLET	736.39	
7388	STORM INLET	736.73	
7389	STORM INLET	736.92	
4285	STORM INLET-BEEHIVE	737.66	
4273	STORM INLET-BEEHIVE	738.09	
4277	STORM INLET	738.25	
4306	STORM MANHOLE	738.87	
7340	STORM MANHOLE	737.89	
7341	STORM INLET	736.92	
3277	STORM INLET-BEEHIVE	735.51	
7431	STORM INLET	736.55	
7399	STORM INLET	736.40	
7424	STORM MANHOLE	737.08	
7460	STORM MANHOLE	737.47	

STORM STRUCTURE TABLE - SHEET C3.3			
STRUCTURE#	TYPE	RIM ELEVATION	INVERT
7475	STORM INLET	735.10	(NW)+-10"PVC=730.82 (NE)12"RCP=734.53 (NW)10"RCP=731.40 (SE)8"CLAY=730.70 (NE)12"RCP=733.95 SW IS PLUGGED-NO PIPE BURIED IN SNOW-NOT ACCESSIBLE (NE)15"RCP=733.69 (E-W)36"RCP=726.93 BURIED IN SNOW-NOT ACCESSIBLE BURIED IN SNOW-NOT ACCESSIBLE (W)18"CLAY=728.20 (NE)18"RCP=732.36 (SE)18"RCP-OFFSET-NOT ACCESSIBLE (NE)12"RCP=732.14 (NW,SW)36"RCP=726.22 (N,NE)12"RCP=729.37 (S)18"RCP=729.37 (N-S)12"RCP=730.75 (N)12"RCP=728.80 (E)36"RCP=728.70 (SW)36"RCP=728.70 (NE-SW)12"RCP=733.64 (NE)15"RCP=728.41 (NW-SE)+-36"RCP=726.46 (SW)12"RCP-NOT ACCESSIBLE (NE)15"RCP=728.87 (SW)RESTRICTOR PLATE OVER 15"RCP=729.07 (NW-SE)+-36"RCP=726.40 (SW)+-18"RCP=729.30 (NW-SE)+-36"RCP=726.43 (NW,NE)+-30"RCP=729.18 RIM IS OFF CENTER DOES NOT CONNECT TO 4842 (NW-SE)30"RCP=726.58 (N)12"RCP-NOT ACCESSIBLE (SE)30"RCP=729.16 (NW)24"RCP=728.16 (NW,NE)12"RCP=735.30 TOP OF DIRT=735.92 NO PIPES VISIBLE (NW,NE)15"RCP=732.89 (SW)12"RCP=732.89 (SE)15"RCP=732.52 (NW)18"RCP=732.52 (N-S)+-36"RCP=725.96
7482	STORM INLET	736.05	
4481	MANHOLE(?)	738.44	
4900	STORM INLET	736.94	
4935	STORM MANHOLE	737.78	
4941	MANHOLE(?)	738.46	
4949	MANHOLE(?)	737.55	
4924	STORM MANHOLE	738.75	
4667	STORM INLET	737.4	
4715	STORM INLET	737.24	
4770	STORM MANHOLE	737.57	
4235	STORM INLET	736.97	
3192	STORM INLET	735.65	
3281	STORM INLET-BEEHIVE	735.00	
4786	STORM INLET	736.09	
4856	STORM MANHOLE	736.61	
4874	STORM MANHOLE	736.37	
4848	STORM MANHOLE	737.75	
4842	STORM MANHOLE	737.88	
4841	STORM MANHOLE	738.28	
4835	STORM MANHOLE	738.23	
4808	STORM INLET	736.86	
4577	STORM INLET	737.55	
4578	STORM MANHOLE	738.22	
4662	STORM INLET	737.29	
4666	STORM INLET	737.22	
50018	STORM MANHOLE	734.51	



- DEMOLITION LEGEND**
- DENOTES EXISTING PAVEMENT TO BE CRUSHED AND REUSED ON SITE AS FILL IN NON-STRUCTURAL AREAS.
 - DENOTES EXISTING TREES & BRUSH REMOVAL.
 - DENOTES EXISTING TREE REMOVAL.
 - DENOTES EXISTING CURB & GUTTER TO BE CRUSHED AND REUSED ON SITE AS FILL IN NON-STRUCTURAL AREAS.
 - *DENOTES EXISTING STORM SEWER REMOVAL.
 - *DENOTES EXISTING SANITARY SEWER REMOVAL.
 - *DENOTES EXISTING WATERMAIN REMOVAL.
 - *DENOTES EXISTING TELECOMMUNICATIONS REMOVAL.
 - *DENOTES EXISTING ELECTRIC REMOVAL.
 - *CONTRACTOR TO DISPOSE OF ALL WASTE MATERIAL OFF-SITE

WATER STRUCTURE TABLE - SHEET C3.3			
STRUCTURE#	TYPE	RIM ELEVATION	INVERT
50651	WATER VALVE VAULT	738.26	TOP +-18"DIP N-S,W=732.81
4286	WATER VALVE VAULT	738.13	TOP +-12"DIP SW-NE=732.63
7418	WATER VALVE VAULT	737.26	TOP OF WATER=733.46 WATER FILLED-NO ACCESSIBLE PIPES TOP 18"DIP N-S=730.20 TOP 12"DIP E=730.20
7533	WATER VALVE VAULT	737.65	

SANITARY STRUCTURE TABLE - SHEET C3.3			
STRUCTURE#	TYPE	RIM ELEVATION	INVERT
7614	SANITARY MANHOLE	739.68	(SE,SW)12"CLAY(?)=727.63
4271	SANITARY MANHOLE	738.51	(NW-SW)12"RCP=730.06
7532	SANITARY MANHOLE	737.87	(NE,SE,SW,NW)+-10"PVC=722.12
4925	SANITARY MANHOLE	738.35	(NW,SE)12"(RCP)=724.05
4716	SANITARY MANHOLE	737.28	IN ROADWAY-LIMITED ACCESS
4242	SANITARY MANHOLE	737.44	(NW,NE)+-10"PVC=729.54 (NW,SE)10"PVC=730.04 (W)6"PVC=730.89 (NW-SE)=723.09-SIZE & MATERIAL UNKNOWN
4243	SANITARY MANHOLE	738.19	
4852	SANITARY MANHOLE	737.19	

EXISTING CONDITIONS & DEMOLITION PLAN - NORTHEAST

1960 WEST LUCET LANE

NAPERVILLE, ILLINOIS

KARIS CRITICAL

JACOB & HEFNER ASSOCIATES

1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515

PHONE: (630) 652-4600, FAX: (630) 652-4601

www.jacobandhefner.com

4 REVISED PER CITY COMMENTS 09/26/25

3 REVISED PER CITY COMMENTS 07/31/25

2 REVISED PER CITY COMMENTS 6/12/25

1 ORIGINAL PLAN DATE 4/7/25

No. Description

H477a

1" = 40'

C3.3

WATER STRUCTURE TABLE – SHEET C3.4

STRUCTURE#	TYPE	RIM ELEVATION	INVERT
1346	WATER VALVE VAULT	738.65	TOP DIP=731.95 WATER FILLED
2031	WATER VALVE VAULT	740.33	TOP $\pm 8"$ DIP N-S=734.88

STORM STRUCTURE TABLE – SHEET C3.4

STRUCTURE#	TYPE	RIM ELEVATION	INVERT
1406	STORM INLET	737.62	(N/E)12" RCP=735.92 (S/W)12" RCP=735.77
1398	STORM MANHOLE	737.64	(N/E)12" RCP=735.44 (S/E)6" PLASTIC=735.54 (N/W)6" PLASTIC=735.44 DEBRIS FILLED
1399	MANHOLE(ELECTRIC?)	737.19	WATER FILLED--TOP OF WATER EXPOSED ELECTRIC WIRES INSIDE
1414	STORM MANHOLE	738.79	(N/W)6" PLASTIC=736.29 (S)6" PVC=736.39
1284	MANHOLE	739.21	FULL OF SOIL--TOP OF SOIL=739.21
1296	STORM INLET	737.65	(S/E)12" RCP=735.30
1377	STORM INLET	740.89	(N/E)12" CLAY=732.79 S. PORTION OF STRUCTURE, RE-NO NOT OTHER ACCESSIBLE PIPES
1272	STORM MANHOLE	739.15	(N)18" RCP=730.55 (S)18" RCP=730.65 (S/W)12" RCP=734.05
1430	STORM INLET	739.62	(N-E-SW)12" RCP=737.12
1883	MANHOLE(?)	740.21	WATER FILLED--TOP OF WATER
2448	STORM INLET	738.76	(N)8" RCP=736.16 (W)12" RCP=736.16
2432	STORM INLET	738.68	(N)8" RCP=736.23 (S)8" RCP=736.18
2451	STORM INLET	739.05	(N-S-E)18" RCP=730.20 (E)12" RCP--NOT ACCESSIBLE
2245	STORM MANHOLE	736.42	(N-S)18" RCP=730.57
3050	STORM MANHOLE	736.19	(S/W)12" RCP=730.29 (E)18" RCP=730.29
3269	STORM INLET--BEEHIVE	735.01	LID FROZEN--NOT ACCESSIBLE
3102	STORM INLET	735.54	(N)18" RCP=729.64 (S)24" RCP=729.64
3081	STORM INLET	736.16	(S/E)18" RCP=731.08
3273	STORM INLET--BEEHIVE	735.39	LID FROZEN--NOT ACCESSIBLE
3277	STORM INLET--BEEHIVE	735.51	LID FROZEN--NOT ACCESSIBLE
5789	STORM INLET	740.09	(E,S,W,S)12" RCP=737.54
5765	MANHOLE(?)	737.53	WATER LINE=731.38

			BOTTOM OF STRUCTURE=727.7 TOP 2" STEEL PIPE(NE)=736.63 LOOSE ELEC. WIRES INSIDE ST- (N(E)SW)15"RCP=731.00 (N(N))15"CLAY(DROP)CING OVER- (N(W)6" PVC=734.65 (N(E)-SW)8" PVC=731.76 (SE)6" PVC=733.41 (N(W)6" PVC=730.98 (S)4" PVC=732.08
2017	STORM INLET-BEEHIVE	738.00	
5046	STORM INLET-BEEHIVE	736.50	
2042	STORM MANHOLE	738.46	
3204	STORM INLET	736.08	

WATER STRUCTURE TABLE – SHEET C3.1

STRUCTURE#	TYPE	RIM ELEVATION	INVERT
50324	WATER VALVE VAULT	740.50	TOP 12"DIP N=731.30 NW-S=731.30
50149	WATER VALVE VAULT	737.45	TOP +18"DIP NW-SE=731.30
50458	WATER VALVE VAULT	739.14	TOP +12"DIP E-W=731.44 WATER LINE=733.14

SANITARY STRUCTURE TABLE – SHEET C3.1

STRUCTURE#	TYPE	RIM ELEVATION	INVERT
6156	SANITARY MANHOLE?	737.95	(N)6"DIP=733.00 (SE)8"DIP=733.00
2351	SANITARY MANHOLE?	741.91	(N,NE,E)8"PVC(DROP)NOT ACCE (SE)8"PVC(DROP)=735.26 (W)RCP=733.61-SIZE UNKNOWN WATER LINE=735.68-NO PIPES
50446	SANITARY MANHOLE	740.68	

STORM STRUCTURE TABLE – SHEET C3.1

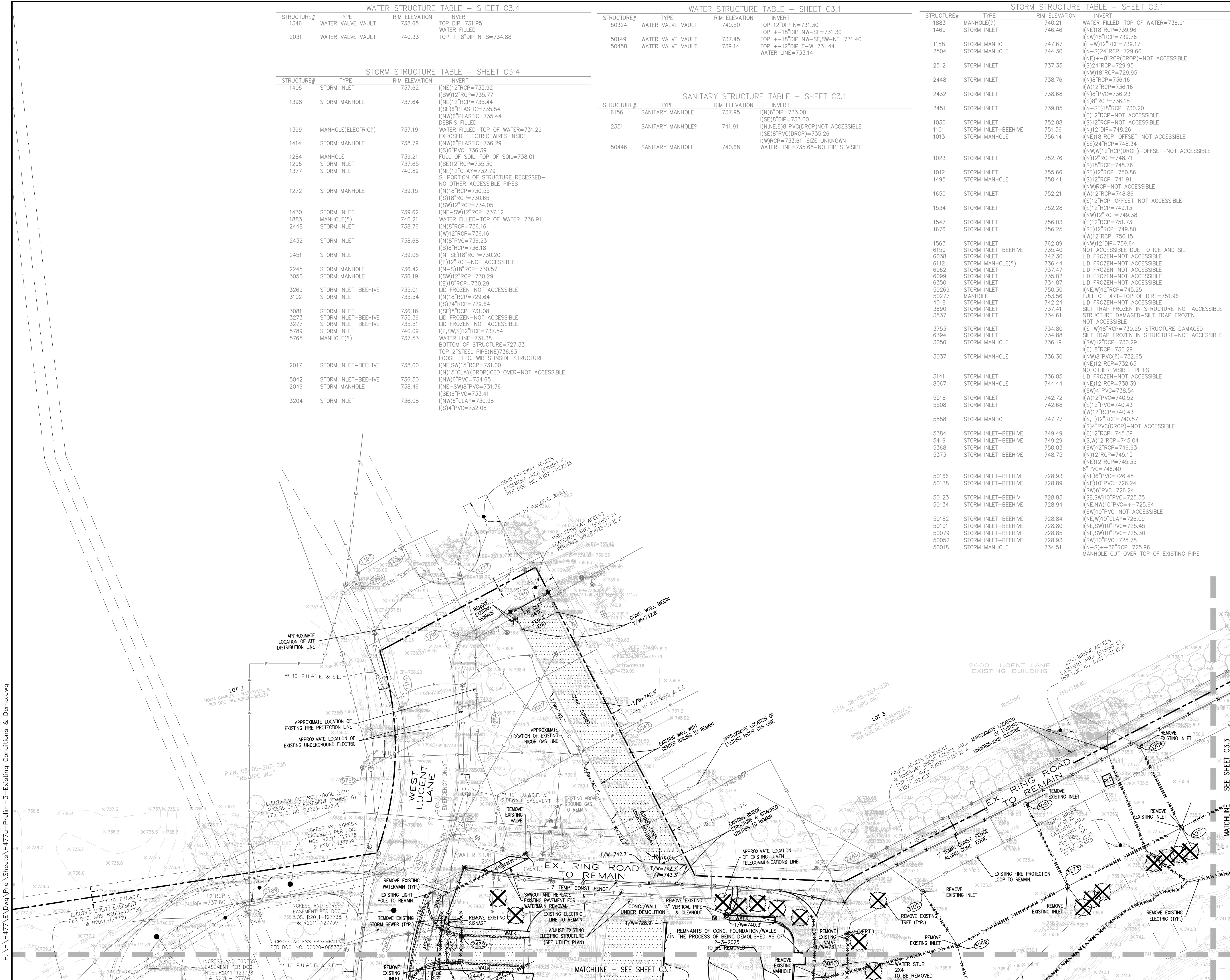
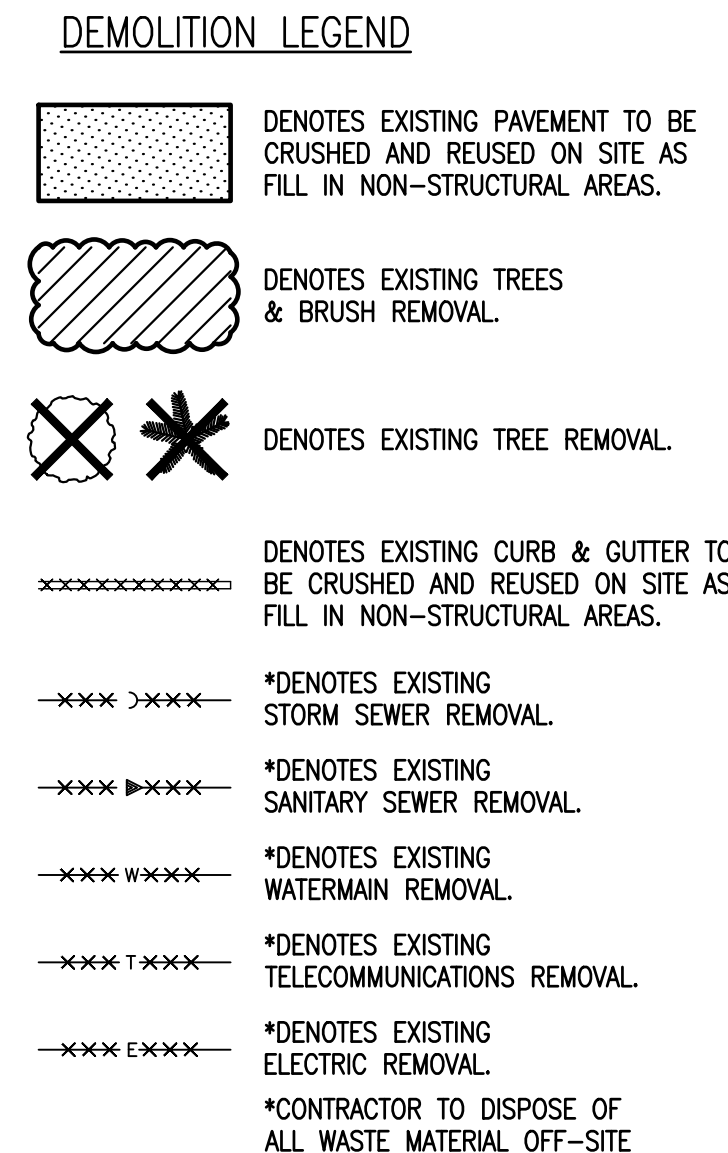
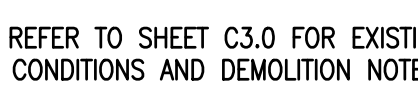
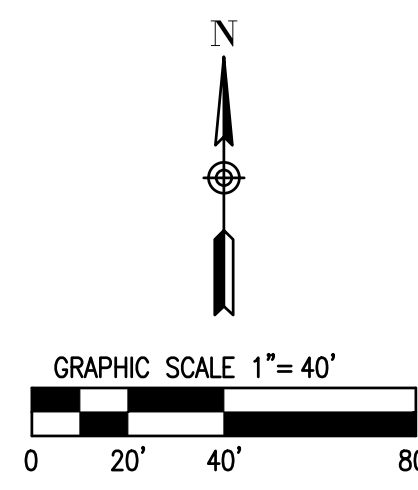
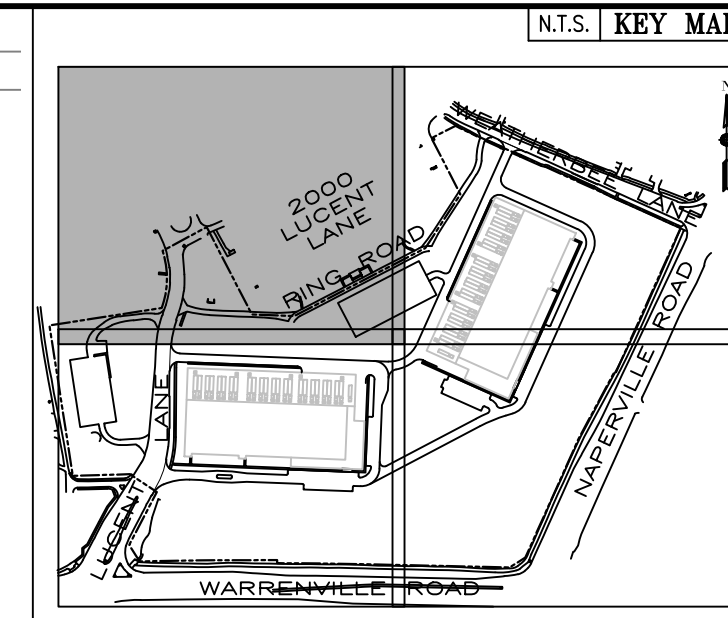
STRUCTURE#	TYPE	RIM ELEVATION	INVERT
1883	MANHOLE(?)	740.21	WATER FILLED-TOP OF WATER
1460	STORM INLET	746.46	(I(N)E)18"RCP=739.96
			(I(SW)18"RCP=739.76
			(I(N)E)12"RCP=739.17
2504	STORM MANHOLE	744.30	(I(N)S)24"RCP=729.60
			(I(N)+-8"RCP(DROP)-NOT AC
2512	STORM INLET	737.35	(I(S)24"RCP=729.95
			(I(NW)18"RCP=729.95
2448	STORM INLET	738.76	(I(N)8"RCP=736.16
			(W)12"RCP=736.16
2432	STORM INLET	738.68	(I(N)8"PVC=736.23
			(I(SW)12"RCP=736.18
2451	STORM INLET	739.05	(N-S)18"RCP=730.20
			(E)12"RCP-NOT ACCESSIBLE
1030	STORM INLET	752.08	(I(S)12"RCP-NOT ACCESSIBLE
1101	STORM INLET-BEEHIVE	751.56	(I(N)12"DIP=748.26
1013	STORM MANHOLE	756.14	(I(N)E)18"RCP-OFFSET-NOT AC

			(LSE)24" RCP=748.34 (NW)12" RCP (DROP) -OFFSET
1023	STORM INLET	752.76	(N)12" RCP=748.71 (S)18" RCP=748.76
1012	STORM INLET	755.66	(E)12" RCP=750.86
1495	STORM MANHOLE	750.41	(S)12" RCP=741.91 (NW)RCP-NOT ACCESSIBLE
1650	STORM INLET	752.21	(W)12" RCP=748.86 (E)12" RCP-OFFSET-NOT ACCESSIBLE
1534	STORM INLET	752.28	(E)12" RCP=749.13 (NW)12" RCP=749.38
1547	STORM INLET	756.03	(E)12" RCP=751.73
1676	STORM INLET	756.25	(SE)12" RCP=749.80

1563	STORM INLET	762.09	(NW)12'DIP=759.64
6150	STORM INLET-BEEHIVE	735.40	NOT ACCESSIBLE: DUE TO ICE
6038	STORM INLET	746.30	LID FROZEN- NOT ACCESSIBLE
6112	STORM MANHOLE(?)	732.44	LID FROZEN- NOT ACCESSIBLE
6052	STORM INLET	737.47	LID FROZEN- NOT ACCESSIBLE
6099	STORM INLET	735.02	LID FROZEN- NOT ACCESSIBLE
6350	STORM INLET	734.87	LID FROZEN- NOT ACCESSIBLE
50289	STORM INLET	750.30	(NE.W)12'ROP=745.25
6277	MANHOLE	753.56	FULL OF DIRT- TOP OF DIRT=
4018	STORM INLET	742.24	LID FROZEN- NOT ACCESSIBLE
3690	STORM INLET	737.41	SILT TRAP FROZEN IN STRUCTURE
3837	STORM INLET	734.61	STRUCTURE DAMAGED- SILT TRAP

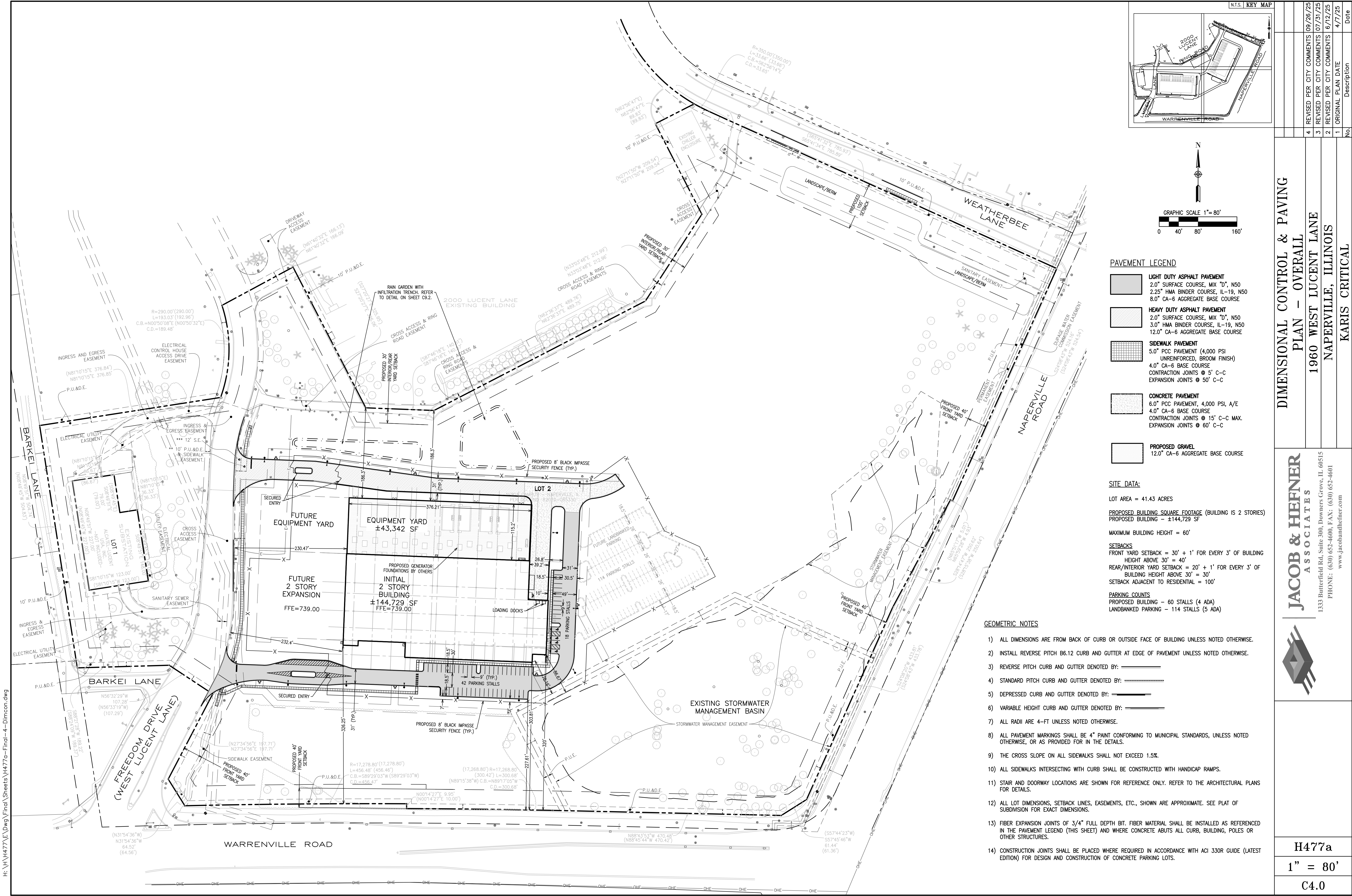
3753	STORM INLET	734.80	(N)12"RCP=734.80
6394	STORM INLET	734.88	(E)-(W)18"RCP=730.25->STRUCTURE
3050	STORM MANHOLE	736.19	SILT TRAP FROZEN IN STRUCTURE
			(S)W12"RCP=730.29
3037	STORM MANHOLE	736.30	(E)18"RCP=730.29
			(N)W8"PVC(%)=732.65
			(N)E12"RCP=732.65
			NO OTHER VISIBLE PIPES
3141	STORM INLET	736.05	LID FROZEN- NOT ACCESSIBLE
8067	STORM MANHOLE	744.44	(N)E12"RCP=738.39
			(S)W4"PVC=738.54
5518	STORM INLET	742.72	(W)12" PVC=740.52
5508	STORM INLET	742.68	(E)12" PVC=740.43
			(W)12"RCP=740.43
5558	STORM MANHOLE	747.77	(N,E)12"RCP=740.57
			(S)4"PVC(DROP)-NOT ACCESSIBLE
5384	STORM INLET-BEEHIVE	749.49	(E)12"RCP=745.39
5419	STORM INLET-BEEHIVE	749.29	(S,W)12"RCP=745.04
5368	STORM INLET	750.03	(S)W12"RCP=746.93
5373	STORM INLET-BEEHIVE	748.75	(N)12"RCP=745.15

50166	STORM INLET-BEEHIVE	728.93	(N,E)12" PVC=745.35 6" PVC=746.40
50138	STORM INLET-BEEHIVE	728.89	(N,E)6" PVC=728.88 (N,E)10" PVC=726.24 (S)W6" PVC=726.24
50123	STORM INLET-BEEHIV	728.83	(S,E)5W10" PVC=725.35 (N,E)NW10" PVC+=-725.64
50134	STORM INLET-BEEHIVE	728.94	(S)W10" PVC=NOT ACCESSIBLE (N,E)W10" CLAY=726.09
50182	STORM INLET-BEEHIVE	728.84	(N,E)5W10" PVC=725.35 (N,E)SW10" PVC=725.35
50071	STORM INLET-BEEHIVE	728.80	(N,E)SW10" PVC=725.35 (S)W10" PVC=726.24
50079	STORM INLET-BEEHIVE	728.85	(N,E)SW10" PVC=725.35 (S)W10" PVC=726.24
50078	STORM INLET-BEEHIVE	728.93	(N,E)SW10" PVC=725.35 (N,S)+36" PVC=725.96
50018	STORM MANHOLE	734.51	MANHOLE CUT OVER TOP OF

[illegible][illegible]

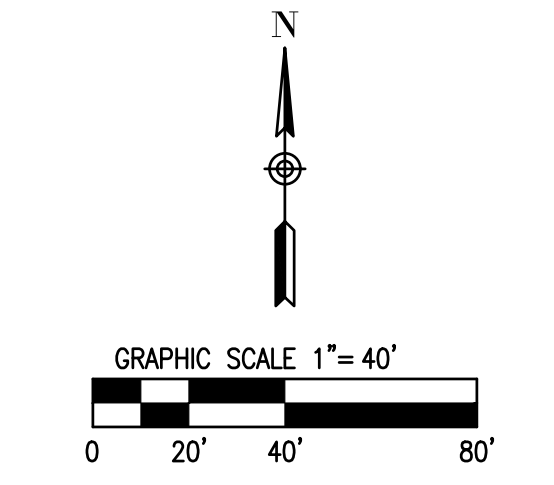
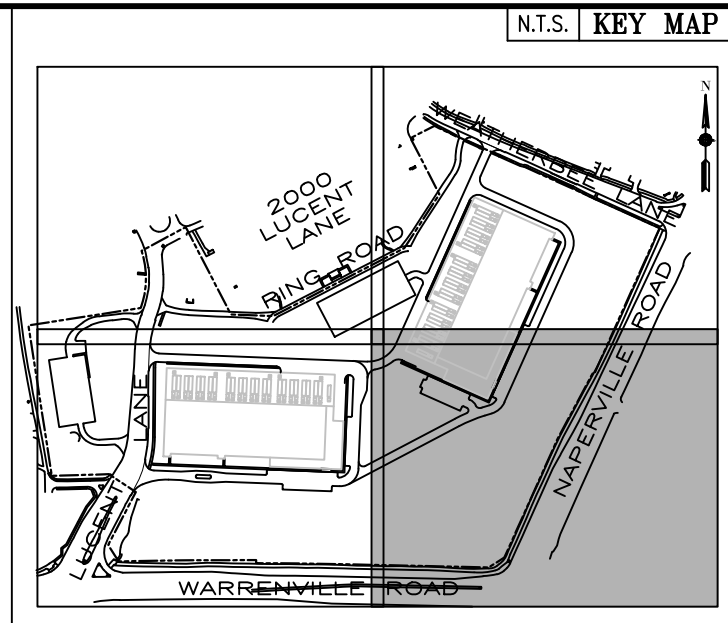
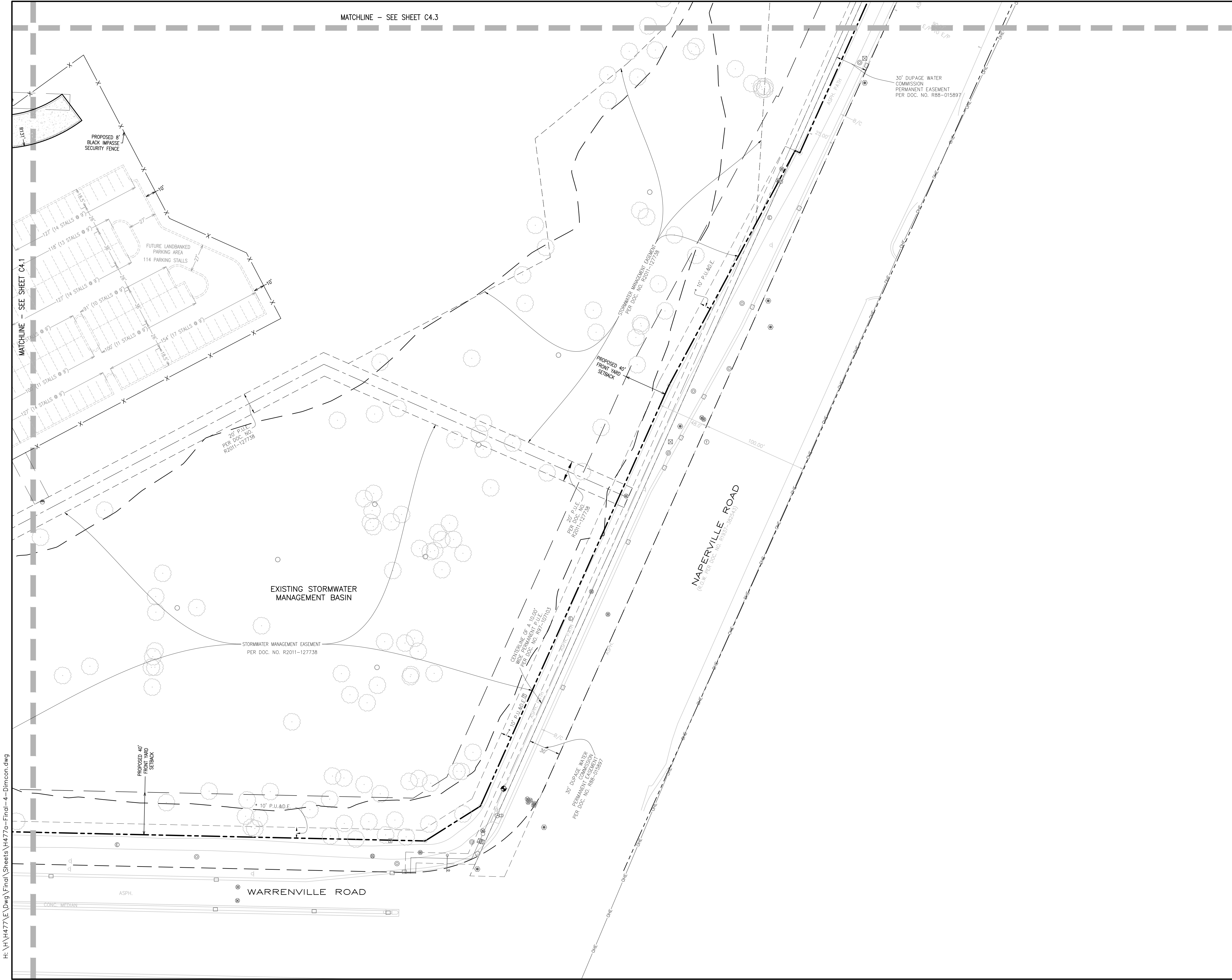
C3.4	1" = 40'	H477a
 JACOB & HEFNER ASSOCIATES 1333 Butterfield Rd., Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com		
EXISTING CONDITIONS & DEMOLITION PLAN – NORTHWEST 1960 WEST LUCENT LANE NAPERVILLE, ILLINOIS KARIS CRITICAL		
No.	Description	Date
1	ORIGINAL PLAN DATE	4/7/25
2	REVISED PER CITY COMMENTS	6/12/25
3	REVISED PER CITY COMMENTS	07/31/25
4	REVISED PER CITY COMMENTS	09/26/25

H:\H477a\DWG\Final\Sheets\H477a-Final-4-Dimcon.dwg



No.		Description	Date
4	REVISED PER CITY COMMENTS	09/26/25	
3	REVISED PER CITY COMMENTS	07/31/25	
2	REVISED PER CITY COMMENTS	6/12/25	
1	ORIGINAL PLAN DATE	4/7/25	
DIMENSIONAL CONTROL & PAVING PLAN - OVERALL			
1960 WEST LUCENT LANE			
NAPERVILLE, ILLINOIS			
KARIS CRITICAL			
JACOB & HEFNER ASSOCIATES		1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515	
		PHONE: (630) 652-4600, FAX: (630) 652-4601	
		www.jacobandhefner.com	
H477a			
1" = 80'			
C4.0			

H:\H477a\DWG\Final\Sheets\H477a-Final-4-Dimcon.dwg



REFER TO SHEET C4.0 FOR GEOMETRIC NOTES.

- PAVEMENT LEGEND**
- LIGHT DUTY ASPHALT PAVEMENT**
2.0" SURFACE COURSE, MIX "D", N50
2.25" HMA BINDER COURSE, IL-19, N50
8.0" CA-6 AGGREGATE BASE COURSE
 - HEAVY DUTY ASPHALT PAVEMENT**
2.0" SURFACE COURSE, MIX "D", N50
3.0" HMA BINDER COURSE, IL-19, N50
12.0" CA-6 AGGREGATE BASE COURSE
 - SIDEWALK PAVEMENT**
5.0" PCC PAVEMENT (4,000 PSI UNREINFORCED, BROOM FINISH)
4.0" CA-6 BASE COURSE
CONTRACTION JOINTS @ 5' C-C
EXPANSION JOINTS @ 50' C-C
 - CONCRETE PAVEMENT**
6.0" PCC PAVEMENT, 4,000 PSI, A/E
4.0" CA-6 BASE COURSE
CONTRACTION JOINTS @ 15' C-C MAX.
EXPANSION JOINTS @ 60' C-C
 - PROPOSED GRAVEL**
12.0" CA-6 AGGREGATE BASE COURSE

- CURB & GUTTER LEGEND**
- REVERSE PITCH CURB & GUTTER
 - STANDARD PITCH CURB & GUTTER
 - DEPRESSED CURB & GUTTER
 - VARIABLE HEIGHT CURB & GUTTER

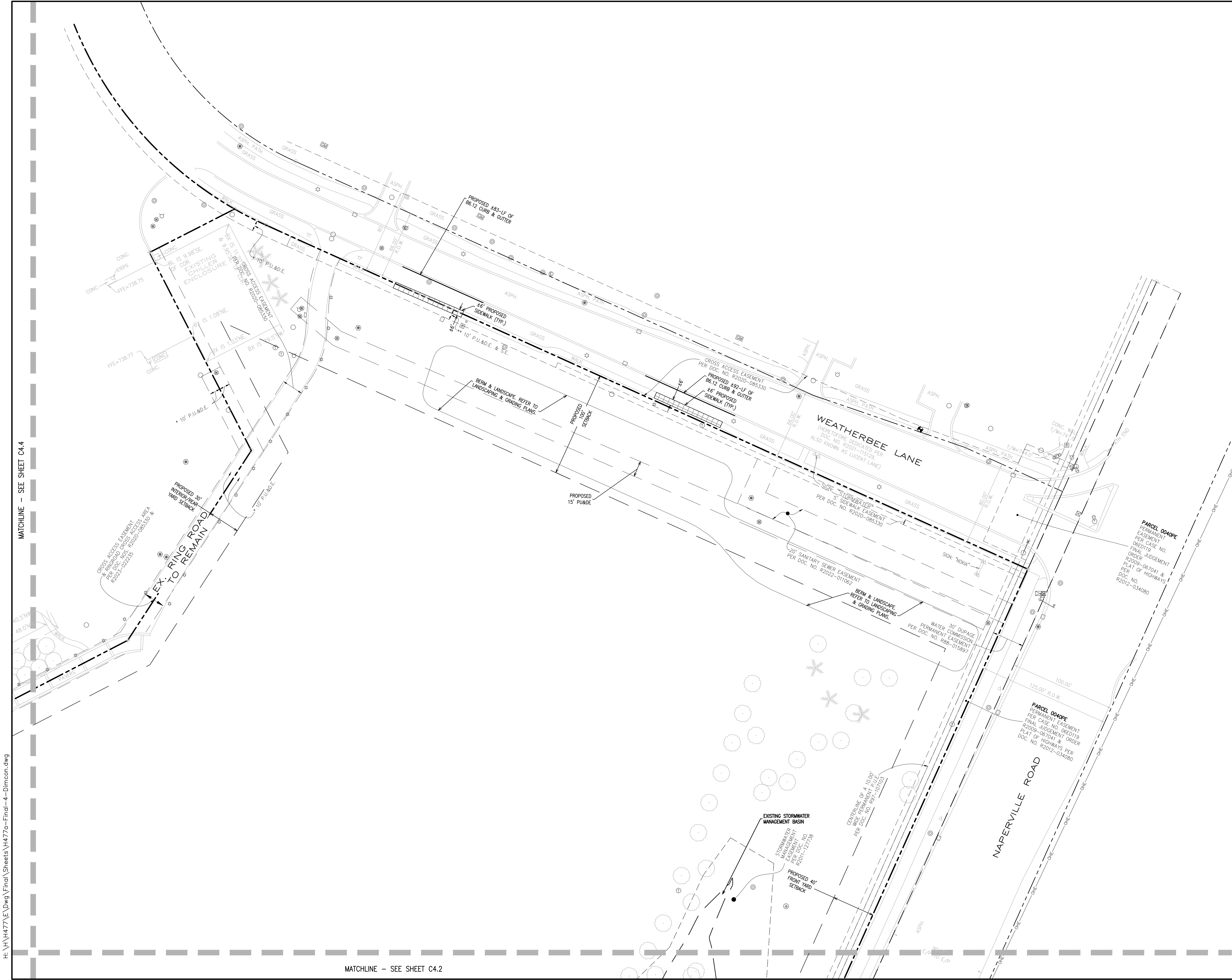
DIMENSIONAL CONTROL & PAVING PLAN - SOUTHEAST 1960 WEST LUCENT LANE NAPERVILLE, ILLINOIS KARIS CRITICAL		JACOB & HEFNER ASSOCIATES 1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com
4	REVISED PER CITY COMMENTS	09/26/25
3	REVISED PER CITY COMMENTS	07/31/25
2	REVISED PER CITY COMMENTS	6/12/25
1	ORIGINAL PLAN DATE	4/7/25
No.	Description	Date

H477a

1" = 40'

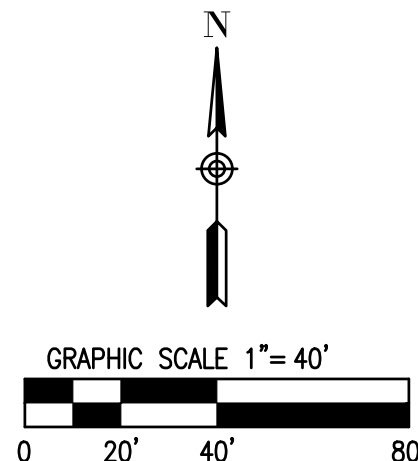
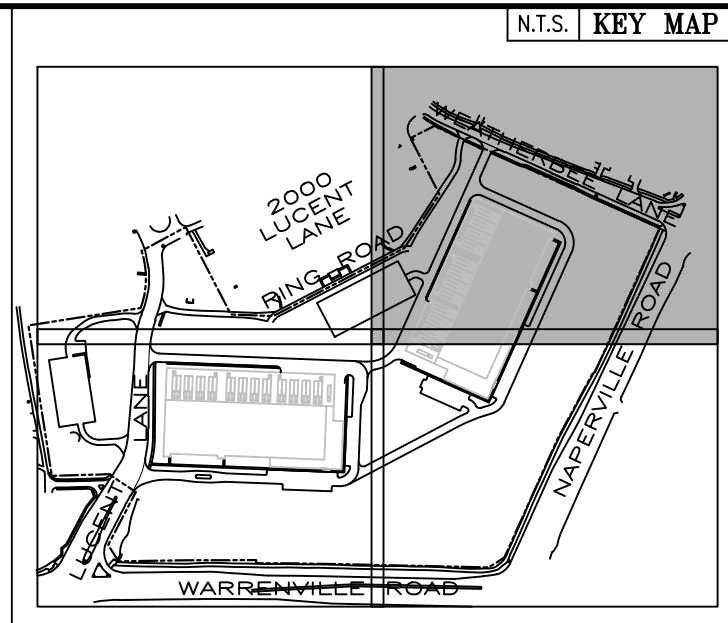
C4.2

H:\H477a\DWG\Final\Sheets\H477a-Final-4-Dimcon.dwg



MATCHLINE - SEE SHEET C4.2

MATCHLINE - SEE SHEET C4.4



REFER TO SHEET C4.0 FOR GEOMETRIC NOTES.

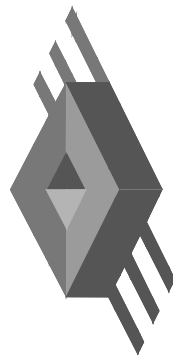
PAVEMENT LEGEND

- LIGHT DUTY ASPHALT PAVEMENT**
2.0" SURFACE COURSE, MIX "D", N50
2.25" HMA BINDER COURSE, IL-19, N50
8.0" CA-6 AGGREGATE BASE COURSE
- HEAVY DUTY ASPHALT PAVEMENT**
2.0" SURFACE COURSE, MIX "D", N50
3.0" HMA BINDER COURSE, IL-19, N50
12.0" CA-6 AGGREGATE BASE COURSE
- SIDEWALK PAVEMENT**
5.0" PCC PAVEMENT (4,000 PSI UNREINFORCED, BROOM FINISH)
4.0" CA-6 BASE COURSE
CONTRACTION JOINTS @ 5' C-C
EXPANSION JOINTS @ 50' C-C
- CONCRETE PAVEMENT**
6.0" PCC PAVEMENT, 4,000 PSI, A/E
4.0" CA-6 BASE COURSE
CONTRACTION JOINTS @ 15' C-C MAX.
EXPANSION JOINTS @ 60' C-C
- PROPOSED GRAVEL**
12.0" CA-6 AGGREGATE BASE COURSE

CURB & GUTTER LEGEND

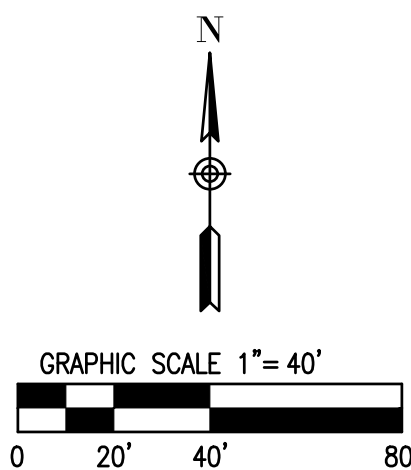
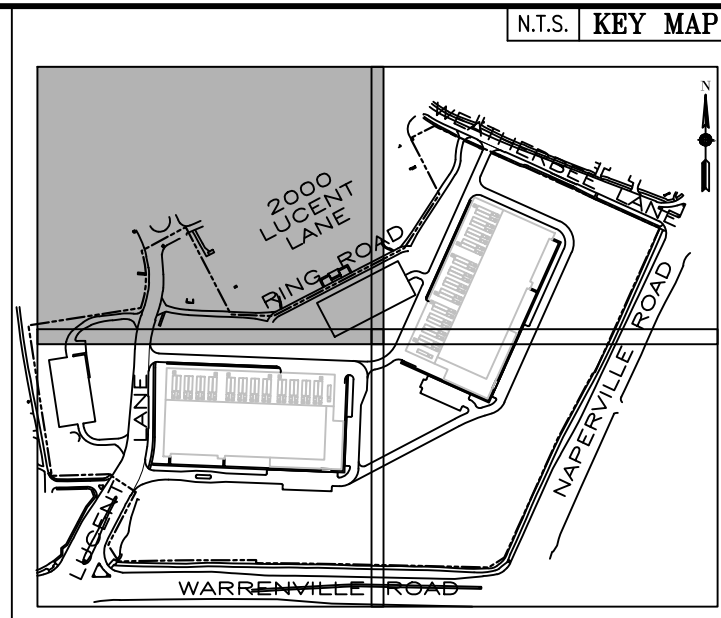
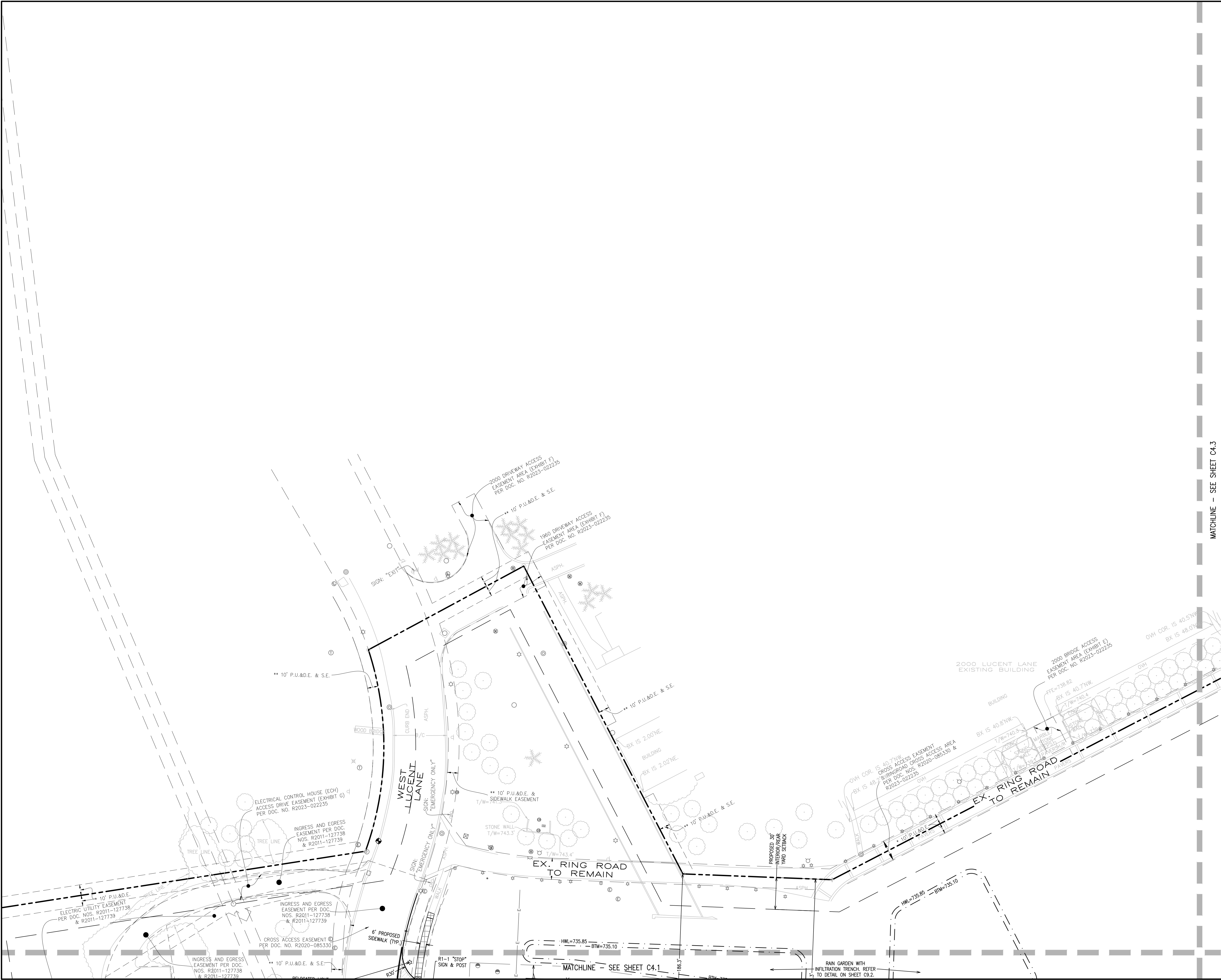
- REVERSE PITCH CURB & GUTTER
- STANDARD PITCH CURB & GUTTER
- DEPRESSED CURB & GUTTER
- VARIABLE HEIGHT CURB & GUTTER

DIMENSIONAL CONTROL & PAVING PLAN - NORTHEAST		1960 WEST LUCENT LANE		NAPERVILLE, ILLINOIS		KARIS CRITICAL	
No.	Description	No.	Date	No.	Date	No.	Date
4	REVISED PER CITY COMMENTS	09/26/25					
3	REVISED PER CITY COMMENTS	07/31/25					
2	REVISED PER CITY COMMENTS	6/12/25					
1	ORIGINAL PLAN DATE	4/7/25					



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

H477a
1" = 40'
C4.3



REFER TO SHEET C4.0 FOR GEOMETRIC NOTES.

PAVEMENT LEGEND

- LIGHT DUTY ASPHALT PAVEMENT**
 2.0" SURFACE COURSE, MIX "D", N50
 2.25" HMA BINDER COURSE, IL-19, N50
 8.0" CA-6 AGGREGATE BASE COURSE

HEAVY DUTY ASPHALT PAVEMENT
 2.0" SURFACE COURSE, MIX "D", N50
 3.0" HMA BINDER COURSE, IL-19, N50
 12.0" CA-6 AGGREGATE BASE COURSE

SIDEWALK PAVEMENT
 5.0" PCC PAVEMENT (4,000 PSI
 UNREINFORCED, BROOM FINISH)
 4.0" CA-6 BASE COURSE
 CONTRACTION JOINTS @ 5' C-C
 EXPANSION JOINTS @ 50' C-C

CONCRETE PAVEMENT
 6.0" PCC PAVEMENT, 4,000 PSI, A/E
 4.0" CA-6 BASE COURSE
 CONTRACTION JOINTS @ 15' C-C MAX.
 EXPANSION JOINTS @ 60' C-C

PROPOSED GRAVEL
 12.0" CA-6 AGGREGATE BASE COURSE

CURB & GUTTER LEGEND

-  REVERSE PITCH CURB & GUTTER
 STANDARD PITCH CURB & GUTTER
 DEPRESSED CURB & GUTTER
 VARIABLE HEIGHT CURB & GUTTER

MATCHLINE - SEE SHEET C4.3

**DIMENSIONAL CONTROL &
PAVING PLAN – NORTHWEST
160 WEST LUCENT LANE
NAPERVILLE, ILLINOIS
KARIS CRITICAL**

JACOB & HEFNER
ASSOCIATES

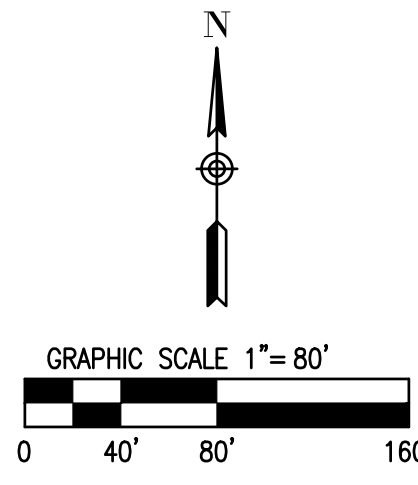
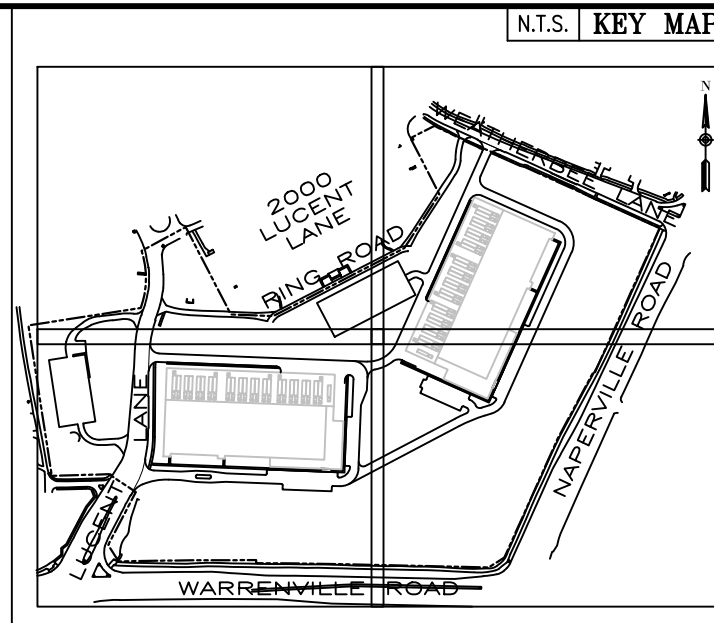
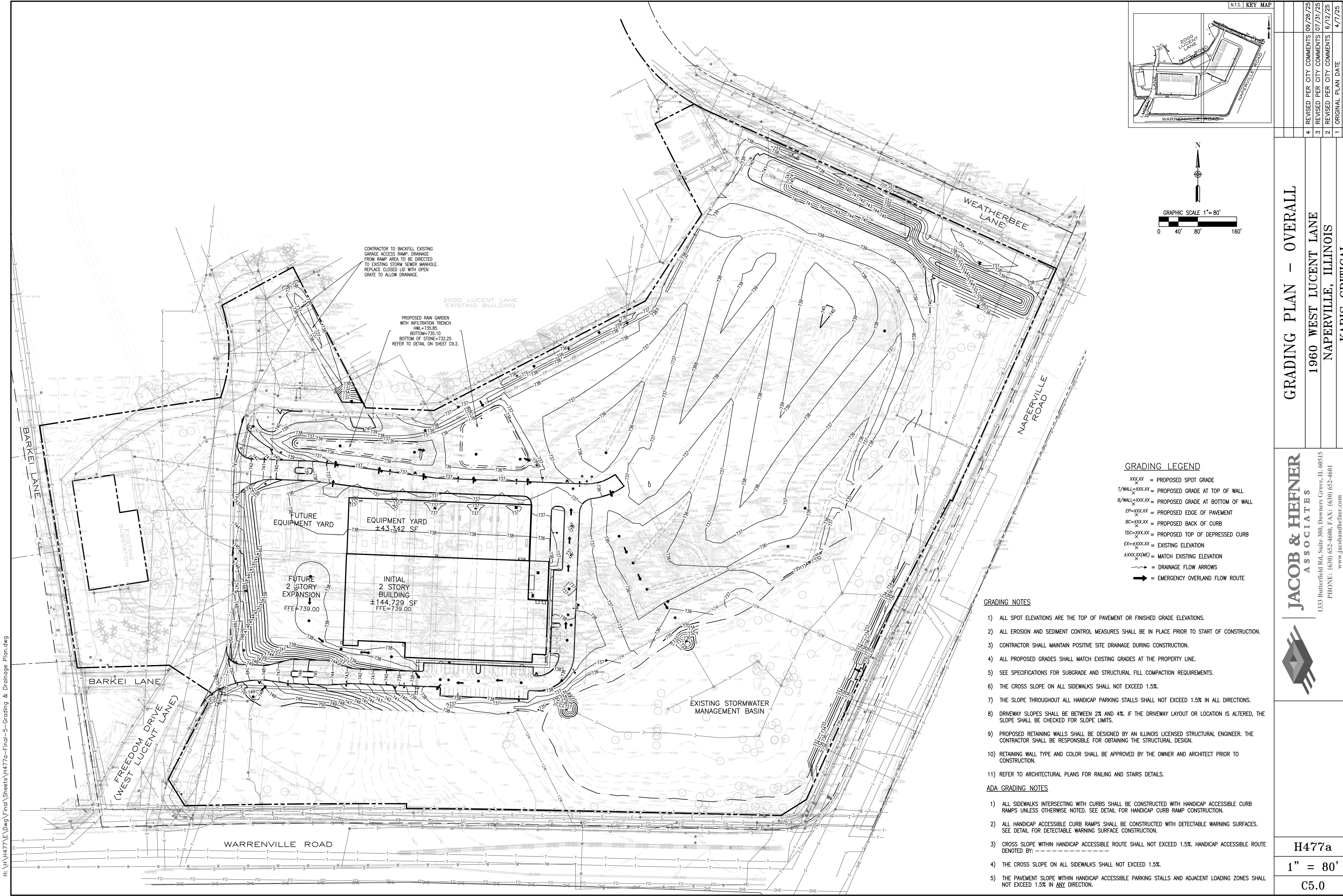
333 Butterfield Rd, Suite 300, Downers Grove, IL 60515
PHONE: (630) 652-4600, FAX: (630) 652-4601
www.jacobandhelfner.com

www.jacobandhefner.com

H477a

$$1'' = 40'$$

C4.4



- GRADING LEGEND**
- xxx.xx = PROPOSED SPOT GRADE
 - T/WALL=xxx.xx = PROPOSED GRADE AT TOP OF WALL
 - B/WALL=xxx.xx = PROPOSED GRADE AT BOTTOM OF WALL
 - EP=xxx.xx = PROPOSED EDGE OF PAVEMENT
 - BC=xxx.xx = PROPOSED BACK OF CURB
 - TDC=xxx.xx = PROPOSED TOP OF DEPRESSED CURB
 - EX=±xxx.xx = EXISTING ELEVATION
 - ±xxx.xx(ME) = MATCH EXISTING ELEVATION
 - = DRAINAGE FLOW ARROWS
 - = EMERGENCY OVERLAND FLOW ROUTE

- GRADING NOTES**
- 1) ALL SPOT ELEVATIONS ARE THE TOP OF PAVEMENT OR FINISHED GRADE ELEVATIONS.
 - 2) ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION.
 - 3) CONTRACTOR SHALL MAINTAIN POSITIVE SITE DRAINAGE DURING CONSTRUCTION.
 - 4) ALL PROPOSED GRADES SHALL MATCH EXISTING GRADES AT THE PROPERTY LINE.
 - 5) SEE SPECIFICATIONS FOR SUBGRADE AND STRUCTURAL FILL COMPACTION REQUIREMENTS.
 - 6) THE CROSS SLOPE ON ALL SIDEWALKS SHALL NOT EXCEED 1.5%.
 - 7) THE SLOPE THROUGHOUT ALL HANDICAP PARKING STALLS SHALL NOT EXCEED 1.5% IN ALL DIRECTIONS.
 - 8) DRIVEWAY SLOPES SHALL BE BETWEEN 2% AND 4%. IF THE DRIVEWAY LAYOUT OR LOCATION IS ALTERED, THE SLOPE SHALL BE CHECKED FOR SLOPE LIMITS.
 - 9) PROPOSED RETAINING WALLS SHALL BE DESIGNED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE STRUCTURAL DESIGN.
 - 10) RETAINING WALL TYPE AND COLOR SHALL BE APPROVED BY THE OWNER AND ARCHITECT PRIOR TO CONSTRUCTION.
 - 11) REFER TO ARCHITECTURAL PLANS FOR RAILING AND STAIRS DETAILS.

- ADA GRADING NOTES**
- 1) ALL SIDEWALKS INTERSECTING WITH CURBS SHALL BE CONSTRUCTED WITH HANDICAP ACCESSIBLE CURB RAMPS UNLESS OTHERWISE NOTED. SEE DETAIL FOR HANDICAP CURB RAMP CONSTRUCTION.
 - 2) ALL HANDICAP ACCESSIBLE CURB RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING SURFACES. SEE DETAIL FOR DETECTABLE WARNING SURFACE CONSTRUCTION.
 - 3) CROSS SLOPE WITHIN HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 1.5%. HANDICAP ACCESSIBLE ROUTE DENOTED BY: - - - - -
 - 4) THE CROSS SLOPE ON ALL SIDEWALKS SHALL NOT EXCEED 1.5%.
 - 5) THE PAVEMENT SLOPE WITHIN HANDICAP ACCESSIBLE PARKING STALLS AND ADJACENT LOADING ZONES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.

H:\H477a\Drawings\Final\Drawings\H477a-Final-5-Grading & Drainage Plan.dwg

GRADING PLAN – OVERALL

1960 WEST LUCENT LANE

NAPERVILLE, ILLINOIS

KARIS CRITICAL

JACOB & HEFNER

ASSOCIATES

1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515

PHONE: (630) 652-4600, FAX: (630) 652-4601

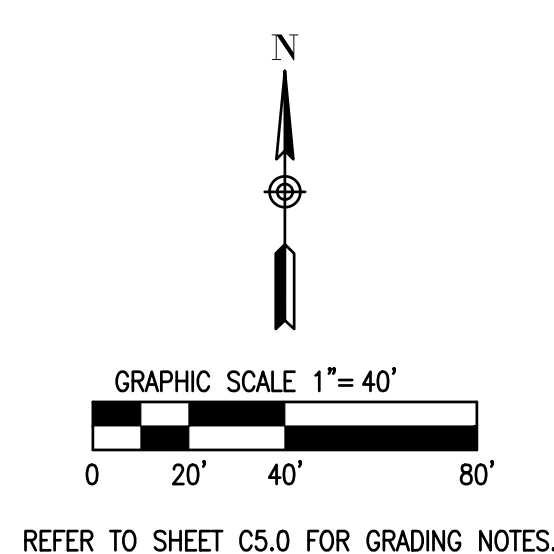
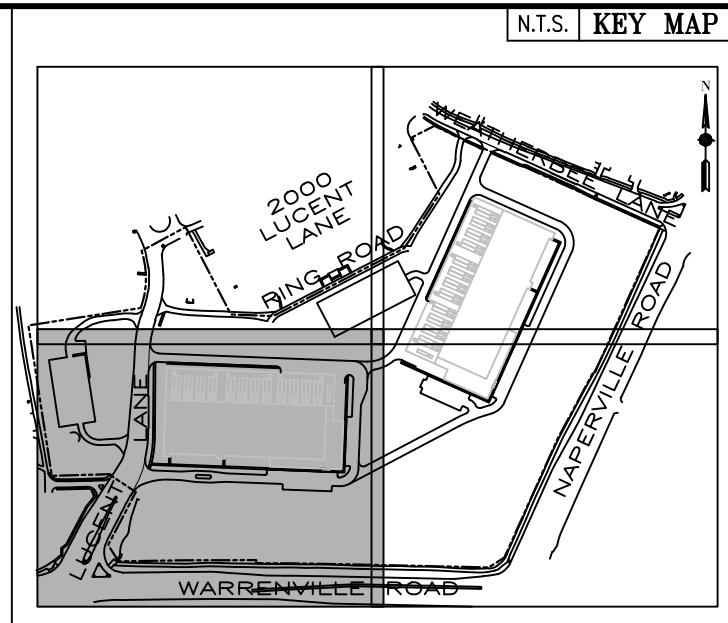
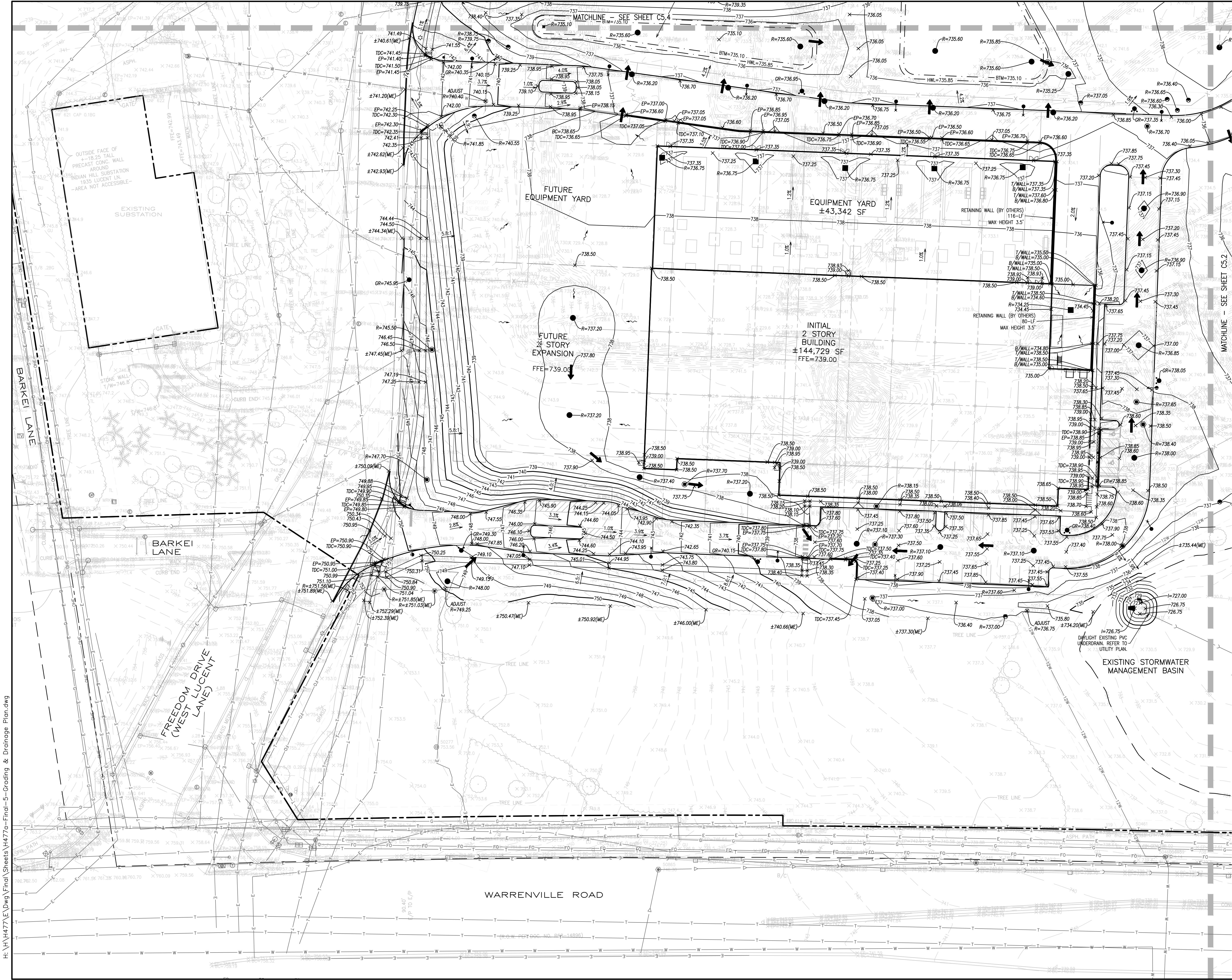
www.jacobandhefner.com

4	REVISED PER CITY COMMENTS	09/26/25	Date
3	REVISED PER CITY COMMENTS	07/31/25	Description
2	REVISED PER CITY COMMENTS	6/12/25	
1	ORIGINAL PLAN DATE	4/7/25	
No.			

H477a

1" = 80'

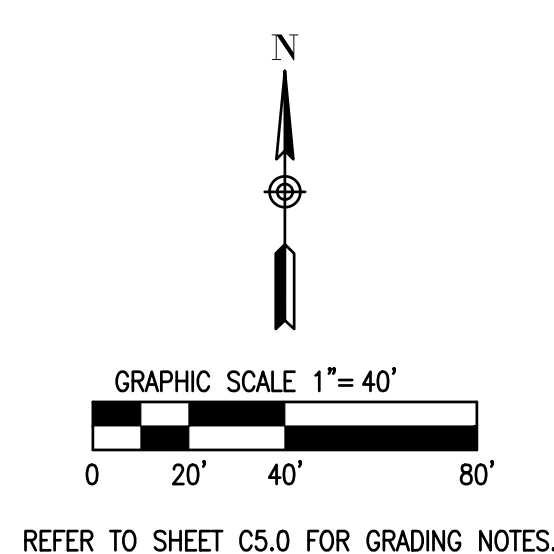
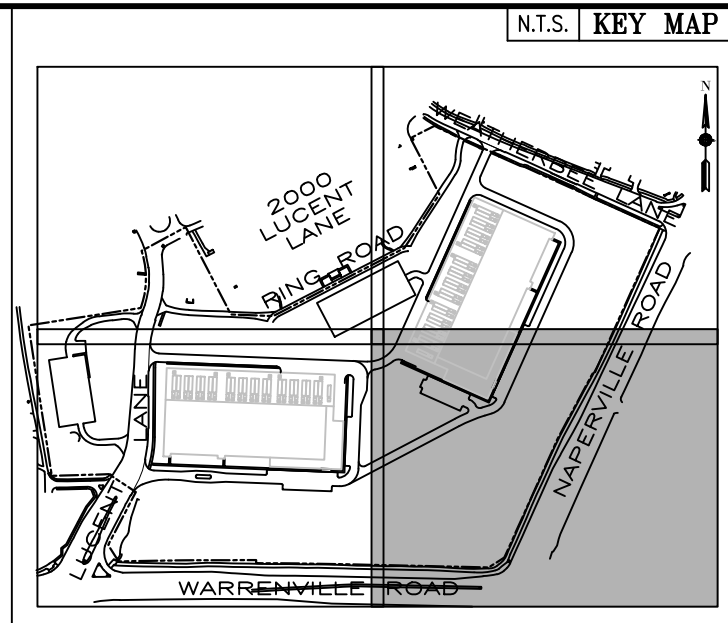
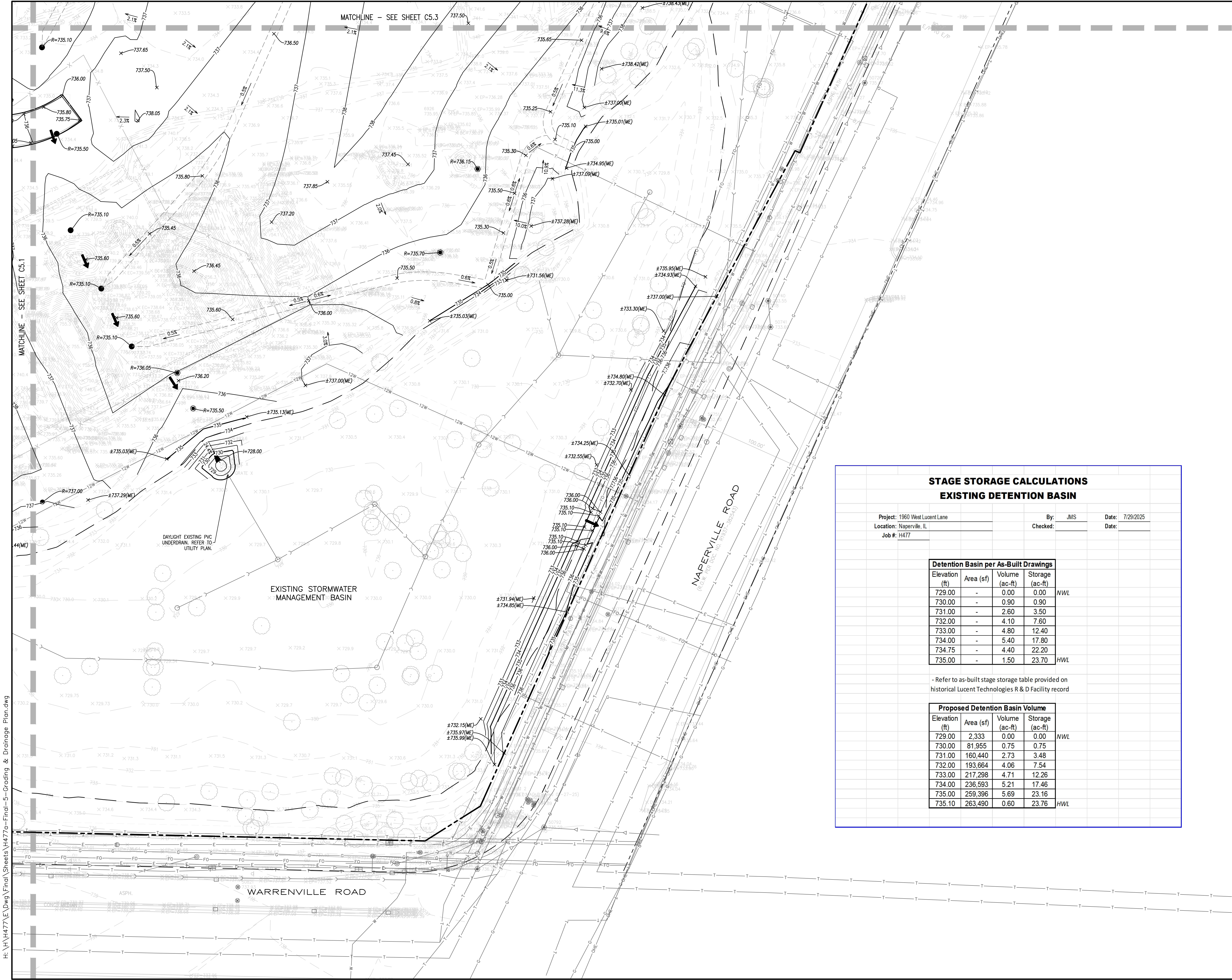
C5.0



- REFER TO SHEET C5.0 FOR GRADING NOTES.
- GRADING LEGEND**
- XXXX = PROPOSED SPOT GRADE
 - T/WALL=XXXX = PROPOSED GRADE AT TOP OF WALL
 - B/WALL=XXXX = PROPOSED GRADE AT BOTTOM OF WALL
 - EP=XXXX = PROPOSED EDGE OF PAVEMENT
 - BC=XXXX = PROPOSED BACK OF CURB
 - TDC=XXXX = PROPOSED TOP OF DEPRESSIONED CURB
 - EX=XXXX = EXISTING ELEVATION
 - ±XXXX(ME) = MATCH EXISTING ELEVATION
 - = DRAINAGE FLOW ARROWS
 - ➔ = EMERGENCY OVERLAND FLOW ROUTE

GRADING PLAN - SOUTHWEST	
1960 WEST LUCENT LANE	
NAPERVILLE, ILLINOIS	
KARIS CRITICAL	
JACOB & HEFNER ASSOCIATES	
1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515	
PHONE: (630) 652-4600, FAX: (630) 652-4601	
www.jacobandhefner.com	
H477a	
1" = 40'	
C5.1	

No.	Description	4/7/25	6/12/25	7/31/25	09/26/25
1	ORIGINAL PLAN DATE				
2	REVISED PER CITY COMMENTS				
3	REVISED PER CITY COMMENTS				
4	REVISED PER CITY COMMENTS				



- GRADING LEGEND**
- XXX.XX = PROPOSED SPOT GRADE
 - T/WALL=XXX.XX = PROPOSED GRADE AT TOP OF WALL
 - B/WALL=XXX.XX = PROPOSED GRADE AT BOTTOM OF WALL
 - EP=XXX.XX = PROPOSED EDGE OF PAVEMENT
 - BC=XXX.XX = PROPOSED BACK OF CURB
 - TDC=XXX.XX = PROPOSED TOP OF DEPRESSED CURB
 - EX=±XXX.XX = EXISTING ELEVATION
 - ±XXX.XX(ME) = MATCH EXISTING ELEVATION
 - = DRAINAGE FLOW ARROWS
 - ➔ = EMERGENCY OVERLAND FLOW ROUTE

STAGE STORAGE CALCULATIONS			
EXISTING DETENTION BASIN			
Project: 1960 West Lucent Lane		By: JMS	Date: 7/29/2025
Location: Naperville, IL		Checked:	Date:
Job #: H477			
Detention Basin per As-Built Drawings			
Elevation (ft)	Area (sf)	Volume (ac-ft)	Storage (ac-ft)
729.00	-	0.00	0.00
730.00	-	0.90	0.90
731.00	-	2.60	3.50
732.00	-	4.10	7.60
733.00	-	4.80	12.40
734.00	-	5.40	17.80
734.75	-	4.40	22.20
735.00	-	1.50	23.70
HWL			
- Refer to as-built stage storage table provided on historical Lucent Technologies R & D Facility record			
Proposed Detention Basin Volume			
Elevation (ft)	Area (sf)	Volume (ac-ft)	Storage (ac-ft)
729.00	2,333	0.00	0.00
730.00	81,955	0.75	0.75
731.00	160,440	2.73	3.48
732.00	193,664	4.06	7.54
733.00	217,298	4.71	12.26
734.00	236,593	5.21	17.46
735.00	259,396	5.69	23.16
735.10	263,490	0.60	23.76
HWL			

GRADING PLAN - SOUTHEAST

1960 WEST LUCENT LANE

NAPERVILLE, ILLINOIS

KARIS CRITICAL

JACOB & HEFNER

ASSOCIATES

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

H477a

1" = 40'

C5.2

4

REVISED PER CITY COMMENTS

09/26/25

3

REVISED PER CITY COMMENTS

07/31/25

2

REVISED PER CITY COMMENTS

6/12/25

1

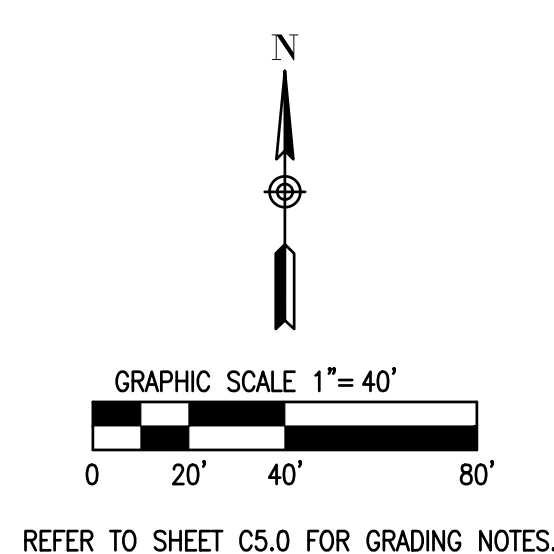
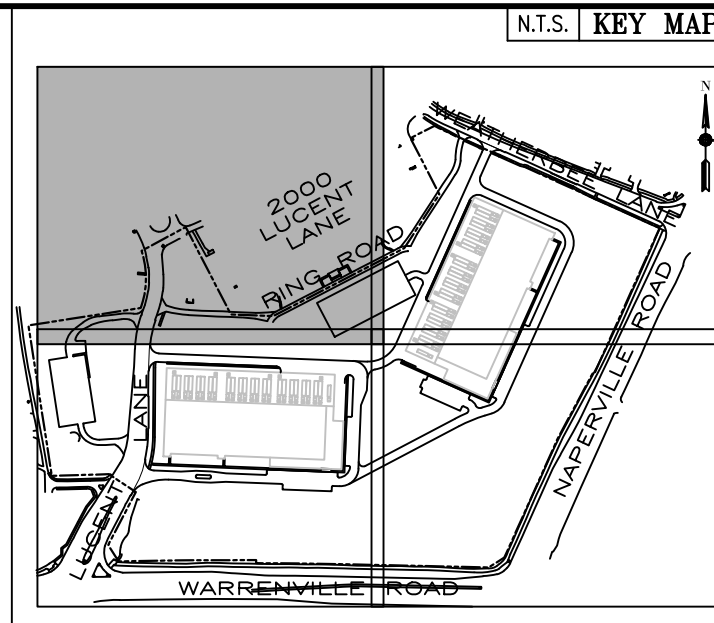
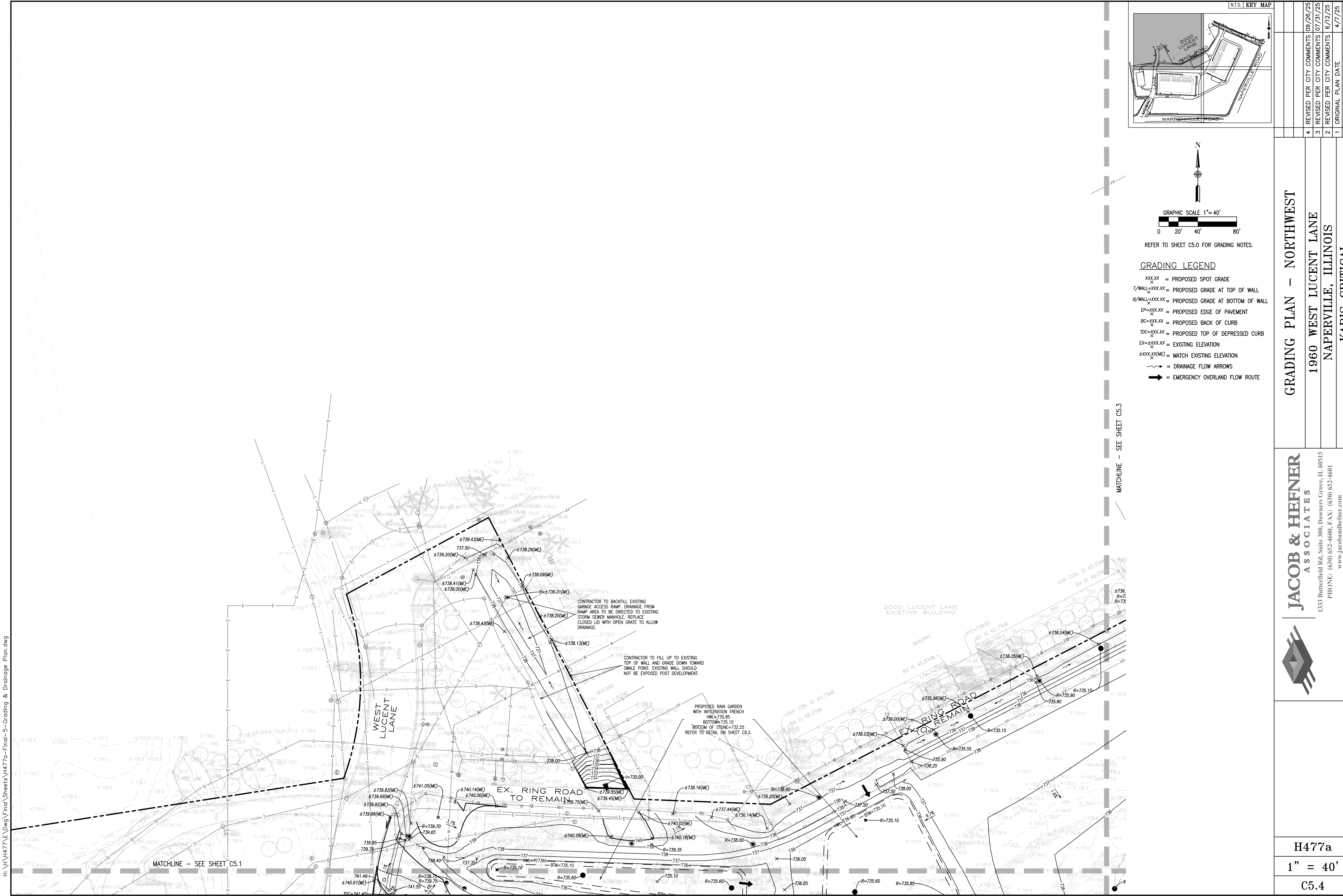
ORIGINAL PLAN DATE

4/7/25

No.

Description

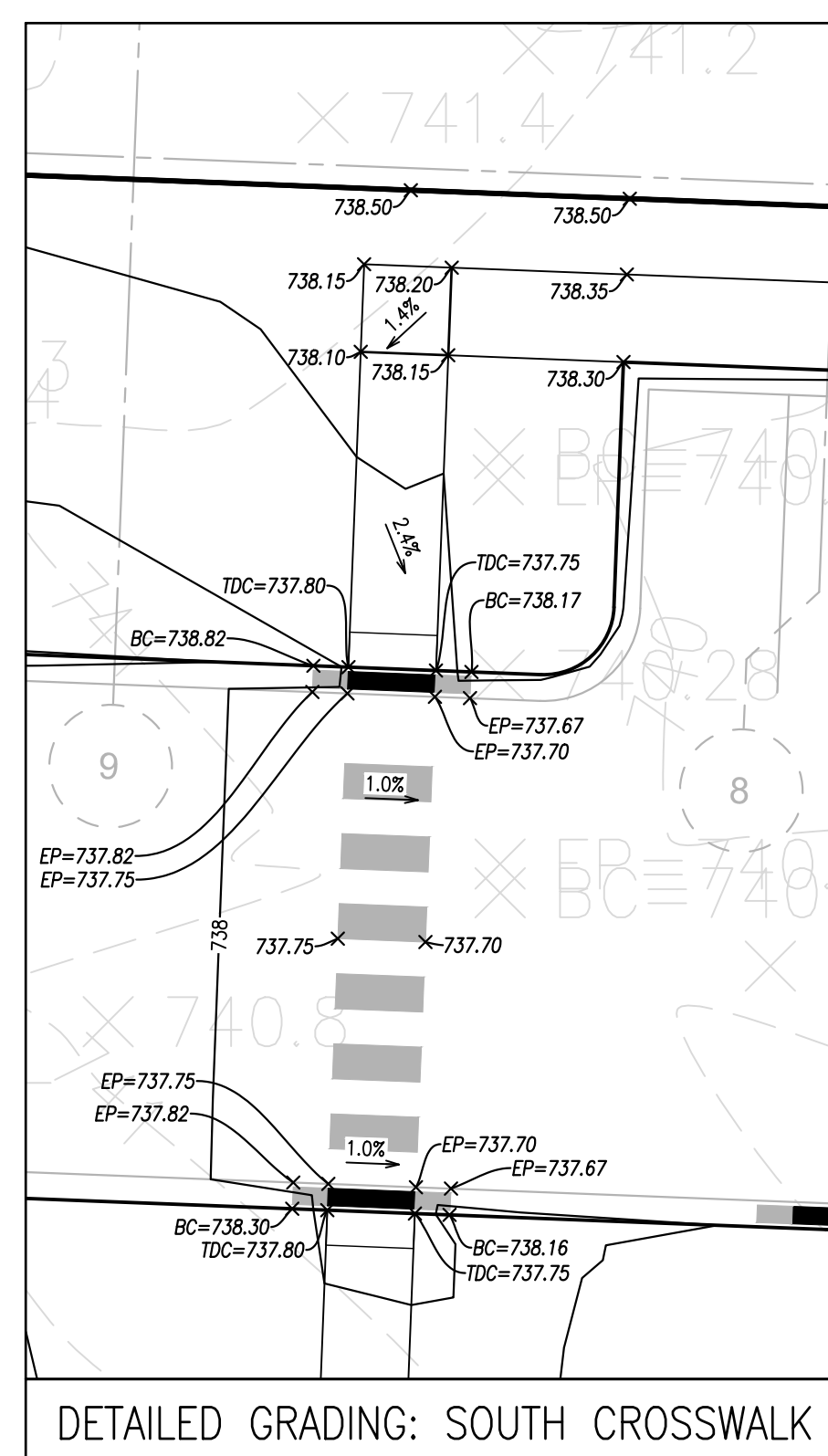
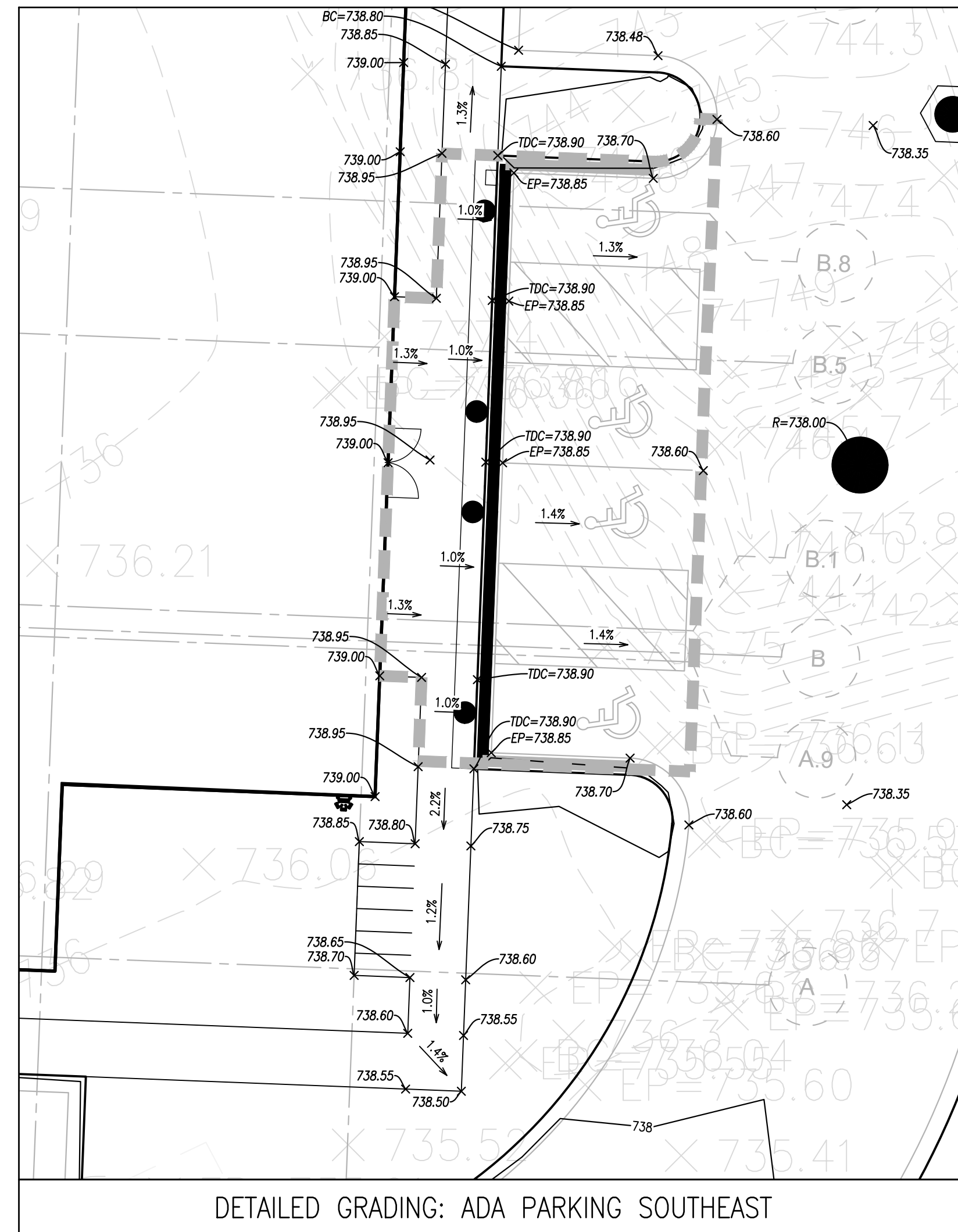
Date



GRADING LEGEND

xxx.xx = PROPOSED SPOT GRADE
T/WALL=xxx.xx = PROPOSED GRADE AT TOP OF WALL
B/WALL=xxx.xx = PROPOSED GRADE AT BOTTOM OF WALL
EP=xxx.xx = PROPOSED EDGE OF PAVEMENT
BC=xxx.xx = PROPOSED BACK OF CURB
TDC=xxx.xx = PROPOSED TOP OF DEPRESSION CURB
EX=±xxx.xx = EXISTING ELEVATION
±xxx.xx(ME) = MATCH EXISTING ELEVATION
→ = DRAINAGE FLOW ARROWS
⇨ = EMERGENCY OVERLAND FLOW ROUTE

No.		Description	Date
4	REVISED PER CITY COMMENTS	09/26/25	
3	REVISED PER CITY COMMENTS	07/31/25	
2	REVISED PER CITY COMMENTS	6/12/25	
1	ORIGINAL PLAN DATE	4/7/25	
GRADING PLAN - NORTHWEST		KARIS CRITICAL	
1960 WEST LUCENT LANE			
NAPERVILLE, ILLINOIS			
JACOB & HEFNER ASSOCIATES			
1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515			
PHONE: (630) 652-4600. FAX: (630) 652-4601			
www.jacobandhefner.com			
H477a			
1" = 40'			
C5.4			

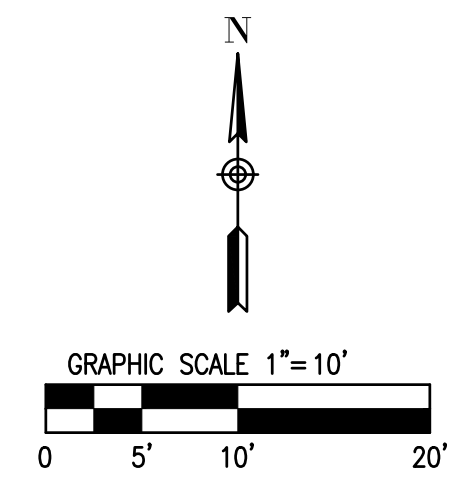
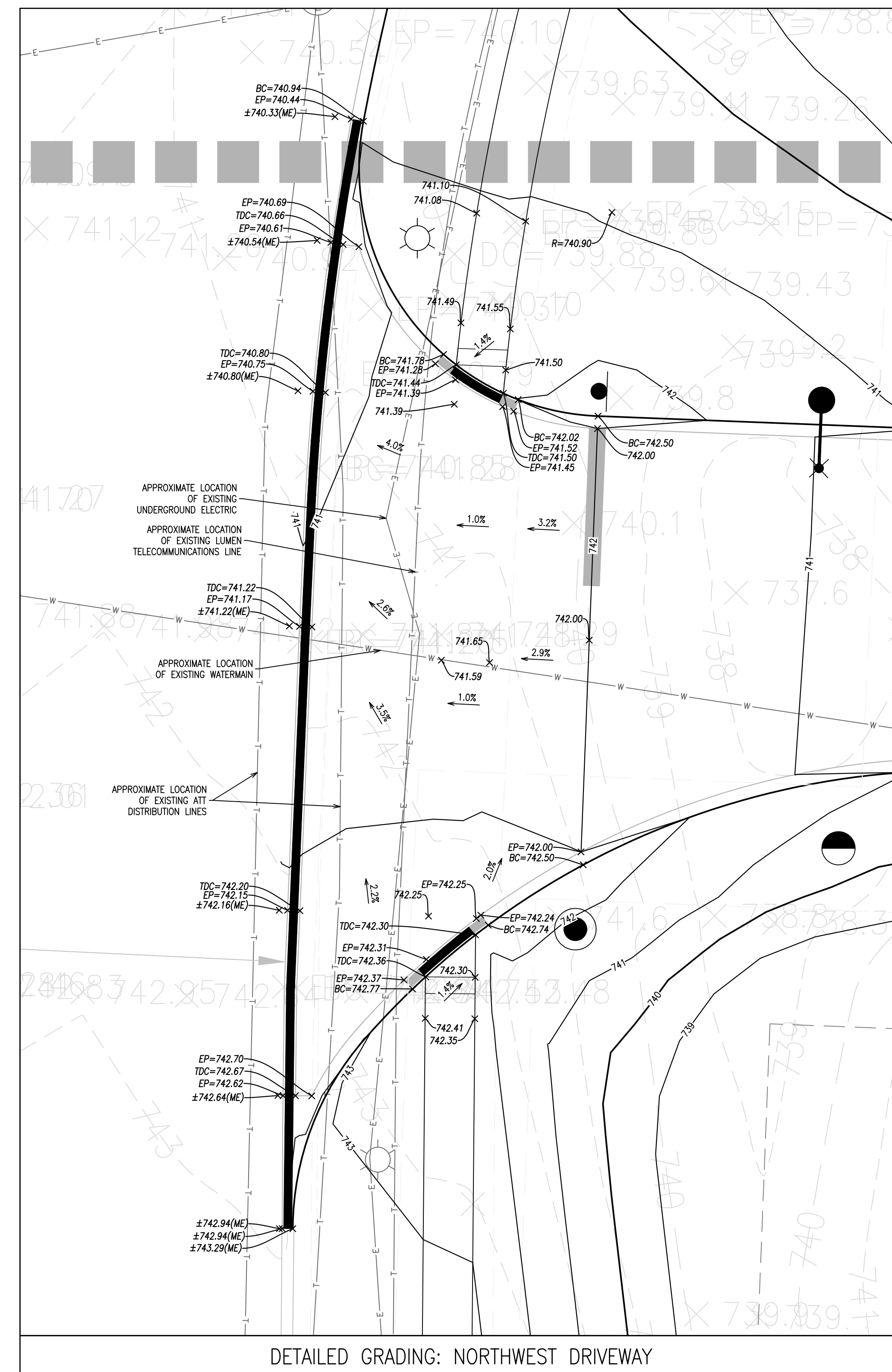
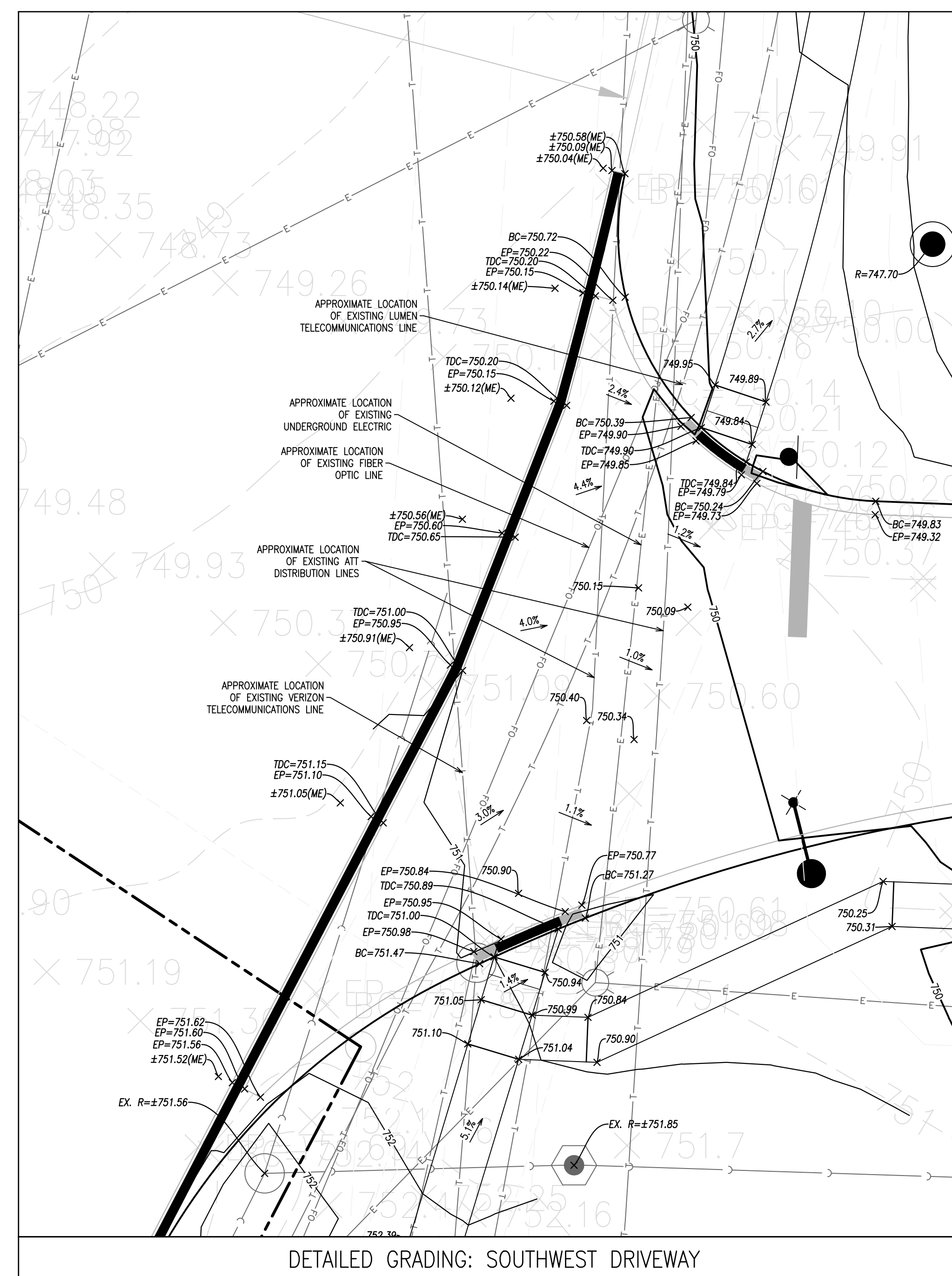


- ADA GRADING NOTES

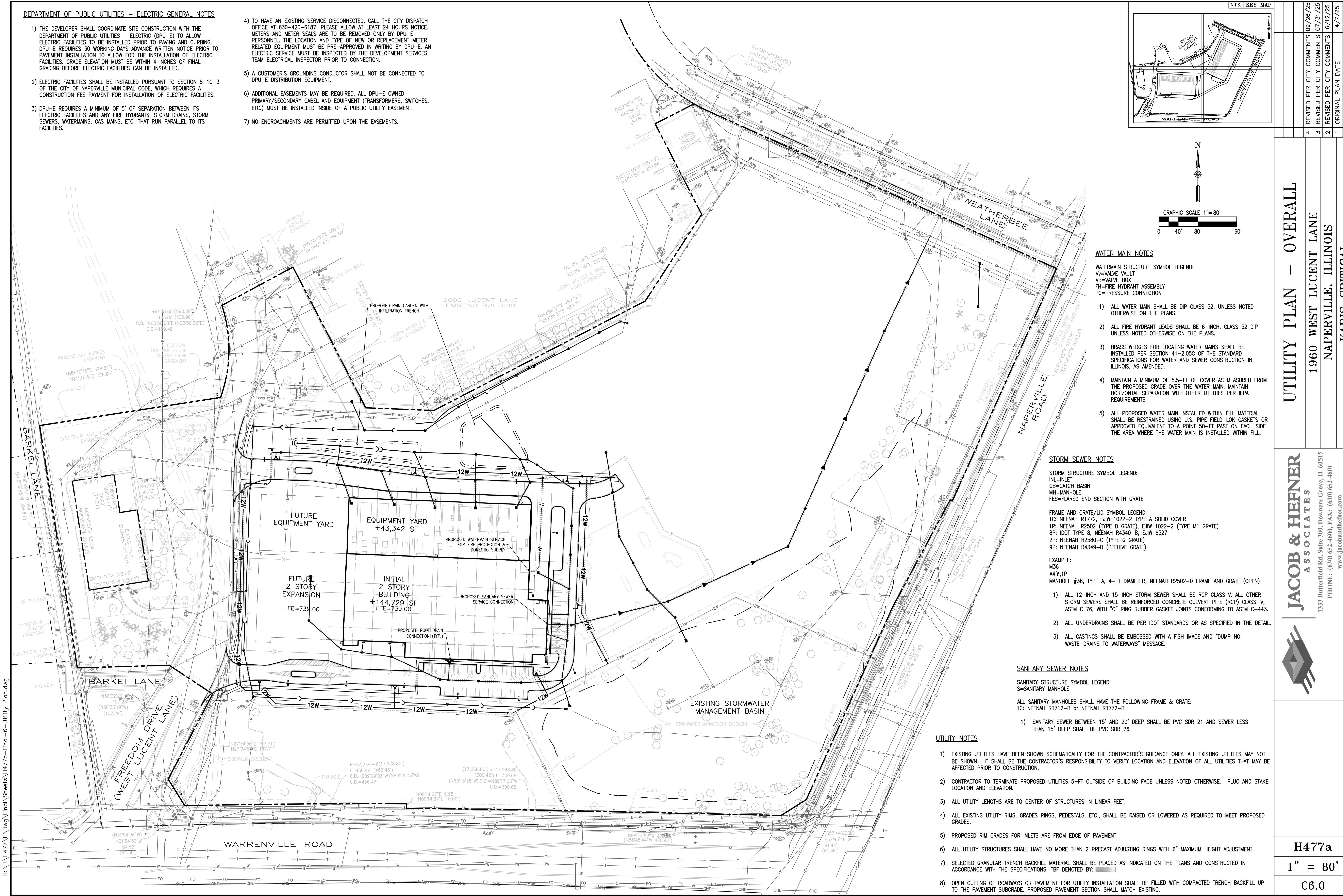
- 1) ALL SIDEWALKS INTERSECTING WITH CURBS SHALL BE CONSTRUCTED WITH HANDICAP ACCESSIBLE CURB RAMP UNLESS OTHERWISE NOTED. SEE DETAIL FOR HANDICAP CURB RAMP CONSTRUCTION.
- 2) ALL HANDICAP ACCESSIBLE CURB RAMP SHALL BE CONSTRUCTED WITH DETECTABLE WARNING SURFACES. SEE DETAIL FOR DETECTABLE WARNING SURFACE CONSTRUCTION.
- 3) CROSS SLOPE WITHIN HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 1.5%. HANDICAP ACCESSIBLE ROUTE DENOTED BY: - - - - -
- 4) THE CROSS SLOPE ON ALL SIDEWALKS SHALL NOT EXCEED 1.5%.
- 5) THE PAVEMENT SLOPE WITHIN HANDICAP ACCESSIBLE PARKING STALLS AND ADJACENT LOADING ZONES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
- 6) REFER TO SHEET CS.0 FOR OVERALL GRADING PLAN AND NOTES.

GRADING LEGEND

$\begin{matrix} XXX.XX \\ \times \end{matrix}$ = PROPOSED SPOT GRADE
 $\begin{matrix} BC=XXX.XX \\ \times \end{matrix}$ = PROPOSED BACK OF CURB
 $\begin{matrix} EP=XXX.XX \\ \times \end{matrix}$ = PROPOSED EDGE OF PAVEMENT
 $\begin{matrix} TDC=XXX.XX \\ \times \end{matrix}$ = PROPOSED TOP OF DEPRESSED CURB
 $\begin{matrix} R=XXX.XX \\ \times \end{matrix}$ = PROPOSED RIM ELEVATION
 EX. $\begin{matrix} R=\cancel{XXX.XX} \\ \times \end{matrix}$ = EXISTING RIM ELEVATION
 $\pm XXX.XX(ME)$ = MATCH EXISTING ELEVATION
 = DRAINAGE FLOW ARROWS
 = EMERGENCY OVERLAND FLOW ROUTE

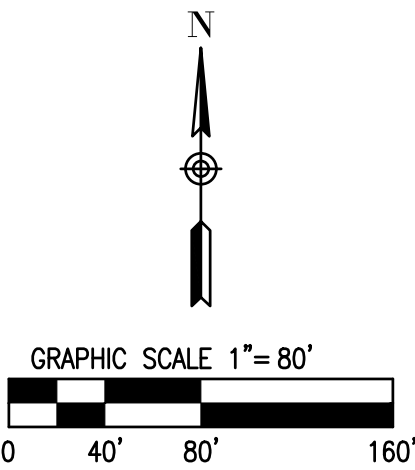
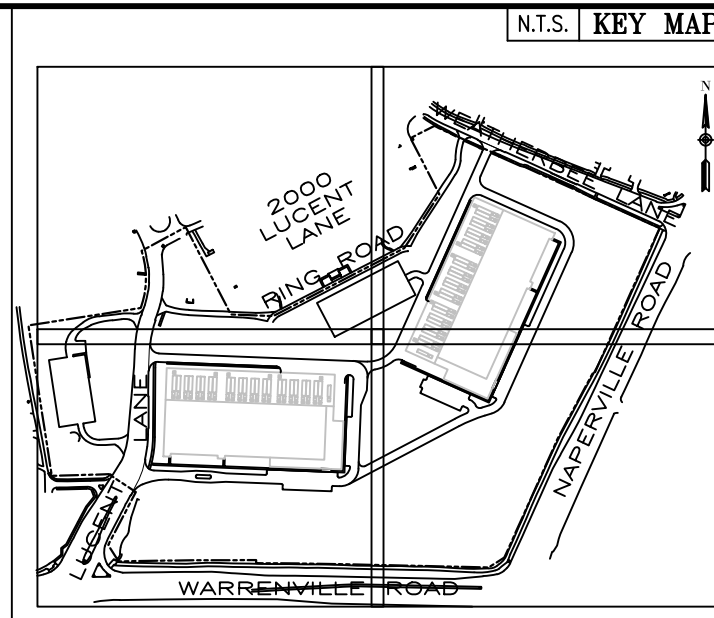


C5.5	1" = 10'	H477a
 JACOB & HEFNER ASSOCIATES 1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com		
DETAILED GRADING PLAN 1960 WEST LUCENT LANE NAPERVILLE, ILLINOIS		
No.	Description	Date
1	ORIGINAL PLAN DATE	4/7/25
2	REVISED PER CITY COMMENTS	6/12/25
3	REVISED PER CITY COMMENTS	07/31/25
4	REVISED PER CITY COMMENTS	09/26/25



DEPARTMENT OF PUBLIC UTILITIES – ELECTRIC GENERAL NOTES

- 1) THE DEVELOPER SHALL COORDINATE SITE CONSTRUCTION WITH THE DEPARTMENT OF PUBLIC UTILITIES – ELECTRIC (DPU-E) TO ALLOW ELECTRIC FACILITIES TO BE INSTALLED PRIOR TO PAVING AND CURBING. DPU-E REQUIRES 30 WORKING DAYS ADVANCE WRITTEN NOTICE PRIOR TO PAVEMENT INSTALLATION TO ALLOW FOR THE INSTALLATION OF ELECTRIC FACILITIES. GRADE ELEVATION MUST BE WITHIN 4 INCHES OF FINAL GRADING BEFORE ELECTRIC FACILITIES CAN BE INSTALLED.
- 2) ELECTRIC FACILITIES SHALL BE INSTALLED PURSUANT TO SECTION 8-1C-3 OF THE CITY OF NAPERVILLE MUNICIPAL CODE, WHICH REQUIRES A CONSTRUCTION FEE PAYMENT FOR INSTALLATION OF ELECTRIC FACILITIES.
- 3) DPU-E REQUIRES A MINIMUM OF 5' OF SEPARATION BETWEEN ITS ELECTRIC FACILITIES AND ANY FIRE HYDRANTS, STORM DRAINS, STORM SEWERS, WATERMANS, GAS MAINS, ETC. THAT RUN PARALLEL TO ITS FACILITIES.
- 4) TO HAVE AN EXISTING SERVICE DISCONNECTED, CALL THE CITY DISPATCH OFFICE AT 630-420-6187. PLEASE ALLOW AT LEAST 24 HOURS NOTICE. METERS AND METER SEALS ARE TO BE REMOVED ONLY BY DPU-E PERSONNEL. THE LOCATION AND TYPE OF NEW OR REPLACEMENT METER RELATED EQUIPMENT MUST BE PRE-APPROVED IN WRITING BY DPU-E. AN ELECTRIC SERVICE MUST BE INSPECTED BY THE DEVELOPMENT SERVICES TEAM ELECTRICAL INSPECTOR PRIOR TO CONNECTION.
- 5) A CUSTOMER'S GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO DPU-E DISTRIBUTION EQUIPMENT.
- 6) ADDITIONAL EASEMENTS MAY BE REQUIRED. ALL DPU-E OWNED PRIMARY/SECONDARY CABEL AND EQUIPMENT (TRANSFORMERS, SWITCHES, ETC.) MUST BE INSTALLED INSIDE OF A PUBLIC UTILITY EASEMENT.
- 7) NO ENCROACHMENTS ARE PERMITTED UPON THE EASEMENTS.



WATER MAIN NOTES

WATERMAIN STRUCTURE SYMBOL LEGEND:
V=VALVE VAULT
VB=VALVE BOX
FH=FIREF HYDRANT ASSEMBLY
PC=PRESSURE CONNECTION

- 1) ALL WATER MAIN SHALL BE DIP CLASS 52, UNLESS NOTED OTHERWISE ON THE PLANS.
- 2) ALL FIRE HYDRANT LEADS SHALL BE 6-INCH, CLASS 52 DIP UNLESS NOTED OTHERWISE ON THE PLANS.
- 3) BRASS WEDGES FOR LOCATING WATER MAINS SHALL BE INSTALLED PER SECTION 41-2.05C OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, AS AMENDED.
- 4) MAINTAIN A MINIMUM OF 5.5-FT OF COVER AS MEASURED FROM THE PROPOSED GRADE OVER THE WATER MAIN. MAINTAIN HORIZONTAL SEPARATION WITH OTHER UTILITIES PER IEPA REQUIREMENTS.
- 5) ALL PROPOSED WATER MAIN INSTALLED WITHIN FILL MATERIAL SHALL BE RESTRAINED USING U.S. PIPE FIELD-LOK GASKETS OR APPROVED EQUIVALENT TO A POINT 50-FT PAST ON EACH SIDE THE AREA WHERE THE WATER MAIN IS INSTALLED WITHIN FILL.

STORM SEWER NOTES

STORM STRUCTURE SYMBOL LEGEND:
INL=INLET
CB=CATCH BASIN
MH=MANHOLE
FES=FLARED END SECTION WITH GRATE

FRAME AND GRATE/LID SYMBOL LEGEND:
1C: NEENAH R1772, EJIW 1022-2 TYPE A SOLID COVER
1P: NEENAH R2502 (TYPE D GRATE), EJIW 1022-2 (TYPE M1 GRATE)
8P: IDOT TYPE B, NEENAH R4340-B, EJIW 6527
2P: NEENAH R2580-C (TYPE G GRATE)
9P: NEENAH R4340-D (BEEHIVE GRATE)

EXAMPLE:
M36
A4#1P
MANHOLE #36, TYPE A, 4-FT DIAMETER, NEENAH R2502-D FRAME AND GRATE (OPEN)

- 1) ALL 12-INCH AND 15-INCH STORM SEWER SHALL BE RCP CLASS V. ALL OTHER STORM SEWERS SHALL BE REINFORCED CONCRETE CULVERT PIPE (RCP) CLASS IV, ASTM C 76, WITH "O" RING RUBBER GASKET JOINTS CONFORMING TO ASTM C-443.
- 2) ALL UNDERDRAINS SHALL BE PER IDOT STANDARDS OR AS SPECIFIED IN THE DETAIL.
- 3) ALL CASTINGS SHALL BE EMBOSSED WITH A FISH IMAGE AND "DUMP NO WASTE-DRAINS TO WATERWAYS" MESSAGE.

SANITARY SEWER NOTES

SANITARY STRUCTURE SYMBOL LEGEND:
S=SANITARY MANHOLE

ALL SANITARY MANHOLES SHALL HAVE THE FOLLOWING FRAME & GRATE:
1C: NEENAH R1712-B or NEENAH R1772-B

- 1) SANITARY SEWER BETWEEN 15' AND 20' DEEP SHALL BE PVC SDR 21 AND SEWER LESS THAN 15' DEEP SHALL BE PVC SDR 26.

UTILITY NOTES

- 1) EXISTING UTILITIES HAVE BEEN SHOWN SCHEMATICALLY FOR THE CONTRACTOR'S GUIDANCE ONLY. ALL EXISTING UTILITIES MAY NOT BE SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION AND ELEVATION OF ALL UTILITIES THAT MAY BE AFFECTED PRIOR TO CONSTRUCTION.
- 2) CONTRACTOR TO TERMINATE PROPOSED UTILITIES 5-FT OUTSIDE OF BUILDING FACE UNLESS NOTED OTHERWISE. PLUG AND STAKE LOCATION AND ELEVATION.
- 3) ALL UTILITY LENGTHS ARE TO CENTER OF STRUCTURES IN LINEAR FEET.
- 4) ALL EXISTING UTILITY RIMS, GRADES RINGS, PEDESTALS, ETC., SHALL BE RAISED OR LOWERED AS REQUIRED TO MEET PROPOSED GRADES.
- 5) PROPOSED RIM GRADES FOR INLETS ARE FROM EDGE OF PAVEMENT.
- 6) ALL UTILITY STRUCTURES SHALL HAVE NO MORE THAN 2 PRECAST ADJUSTING RINGS WITH 6" MAXIMUM HEIGHT ADJUSTMENT.
- 7) SELECTED GRANULAR TRENCH BACKFILL MATERIAL SHALL BE PLACED AS INDICATED ON THE PLANS AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS. TBF DENOTED BY: [Symbol]
- 8) OPEN CUTTING OF ROADWAYS OR PAVEMENT FOR UTILITY INSTALLATION SHALL BE FILLED WITH COMPACTED TRENCH BACKFILL UP TO THE PAVEMENT SUBGRADE. PROPOSED PAVEMENT SECTION SHALL MATCH EXISTING.

UTILITY PLAN – OVERALL

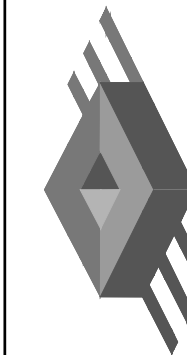
1960 WEST LUCENT LANE

NAPERVILLE, ILLINOIS

KARIS CRITICAL

JACOB & HEFNER
ASSOCIATES

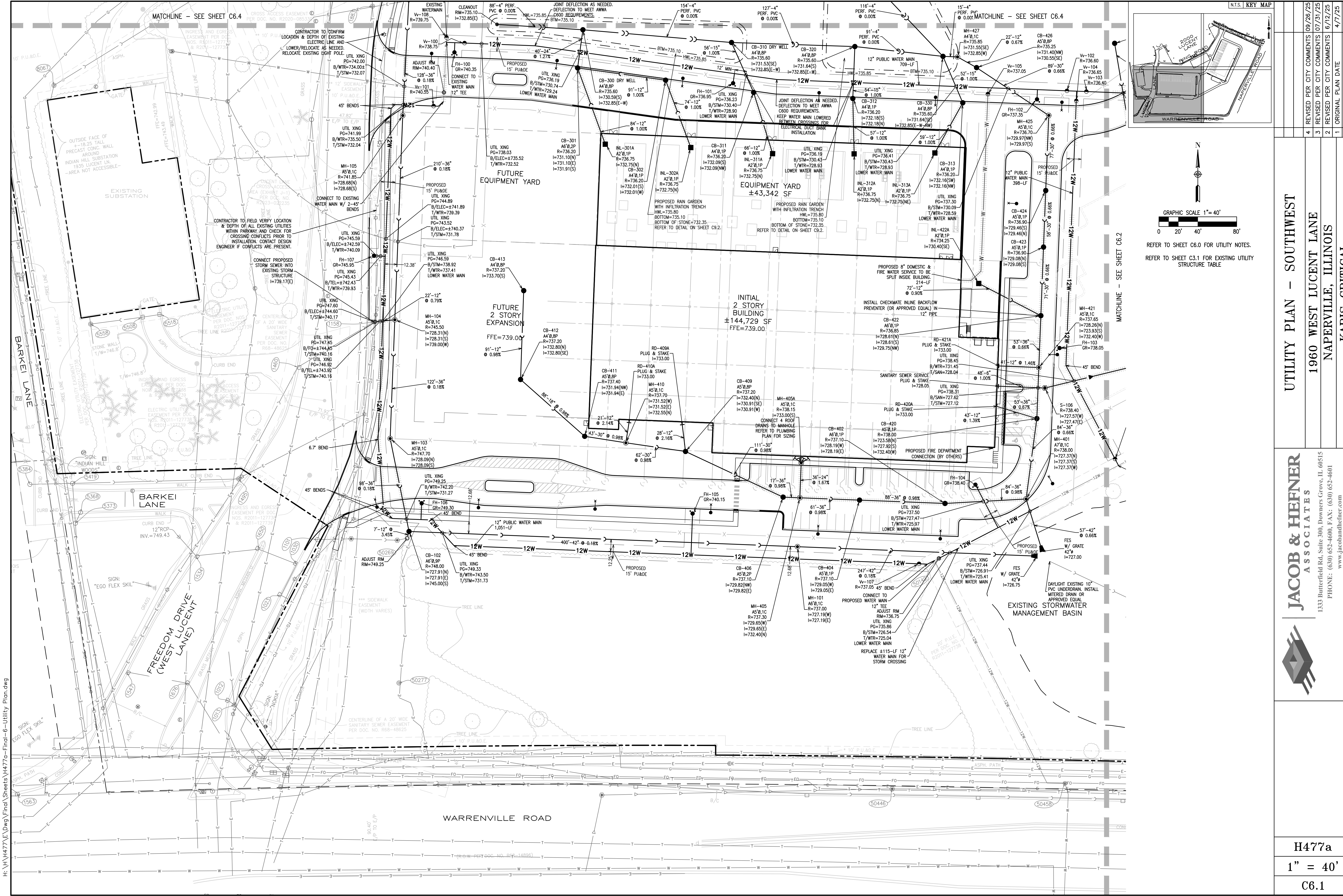
1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515
PHONE: (630) 652-4600, FAX: (630) 652-4601
www.jacobandhefner.com



H477a

1" = 80'

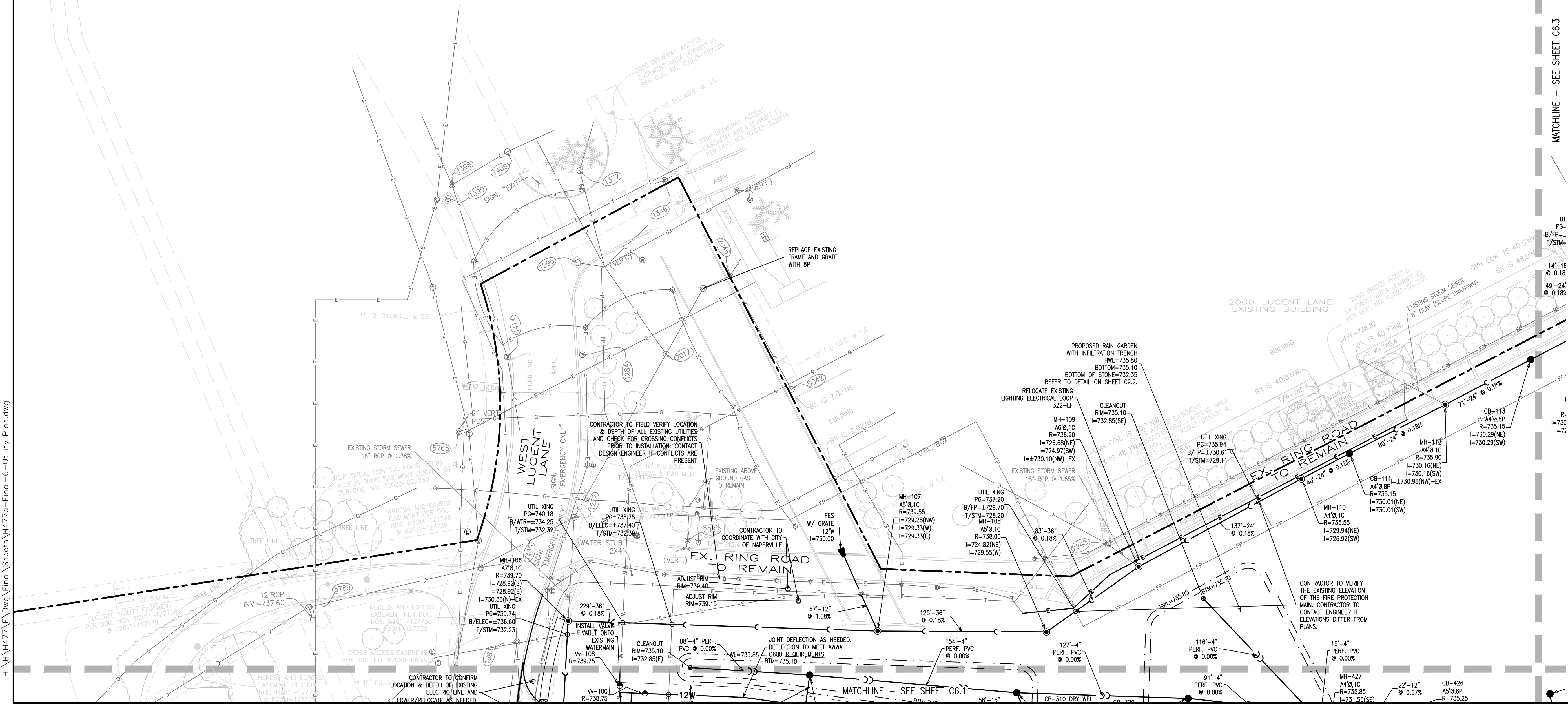
C6.0



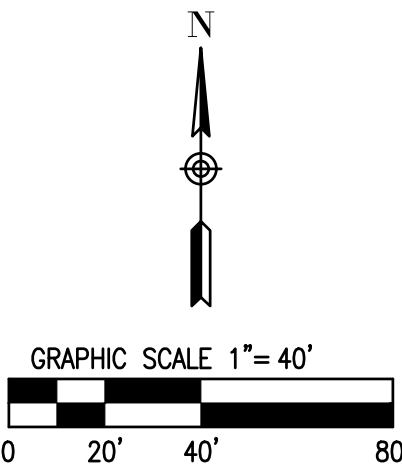
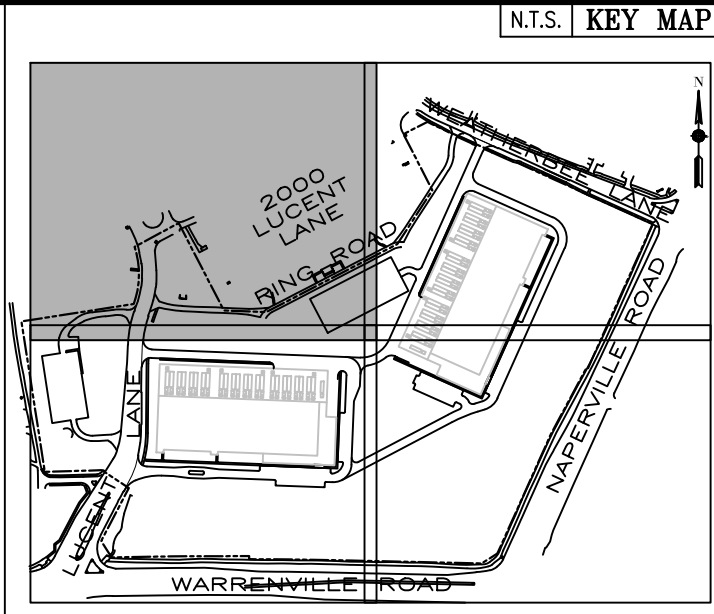
UTILITY PLAN - SOUTHWEST			
1960 WEST LUCENT LANE			
NAPERVILLE, ILLINOIS			
KARIS CRITICAL			
No.	Description	4/7/25	Date
4	REVISED PER CITY COMMENTS	09/26/25	
3	REVISED PER CITY COMMENTS	07/31/25	
2	REVISED PER CITY COMMENTS	6/12/25	
1	ORIGINAL PLAN DATE	4/7/25	

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

H477a
1" = 40'
C6.1



MATCHLINE - SEE SHEET C6.3



REFER TO SHEET C6.0 FOR UTILITY NOTES.
REFER TO SHEET C3.4 FOR EXISTING UTILITY
STRUCTURE TABLE

		 JACOB & HEFNER ASSOCIATES 1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com	UTILITY PLAN – NORTHWEST	
			160 WEST LUCENT LANE	
			NAPERVILLE, ILLINOIS	
			KARIS CRITICAL	
			No.	Description
		4	REVISED PER CITY COMMENTS	09/26/25
		3	REVISED PER CITY COMMENTS	07/31/25
		2	REVISED PER CITY COMMENTS	6/12/25
		1	ORIGINAL PLAN DATE	4/7/25
			Date	

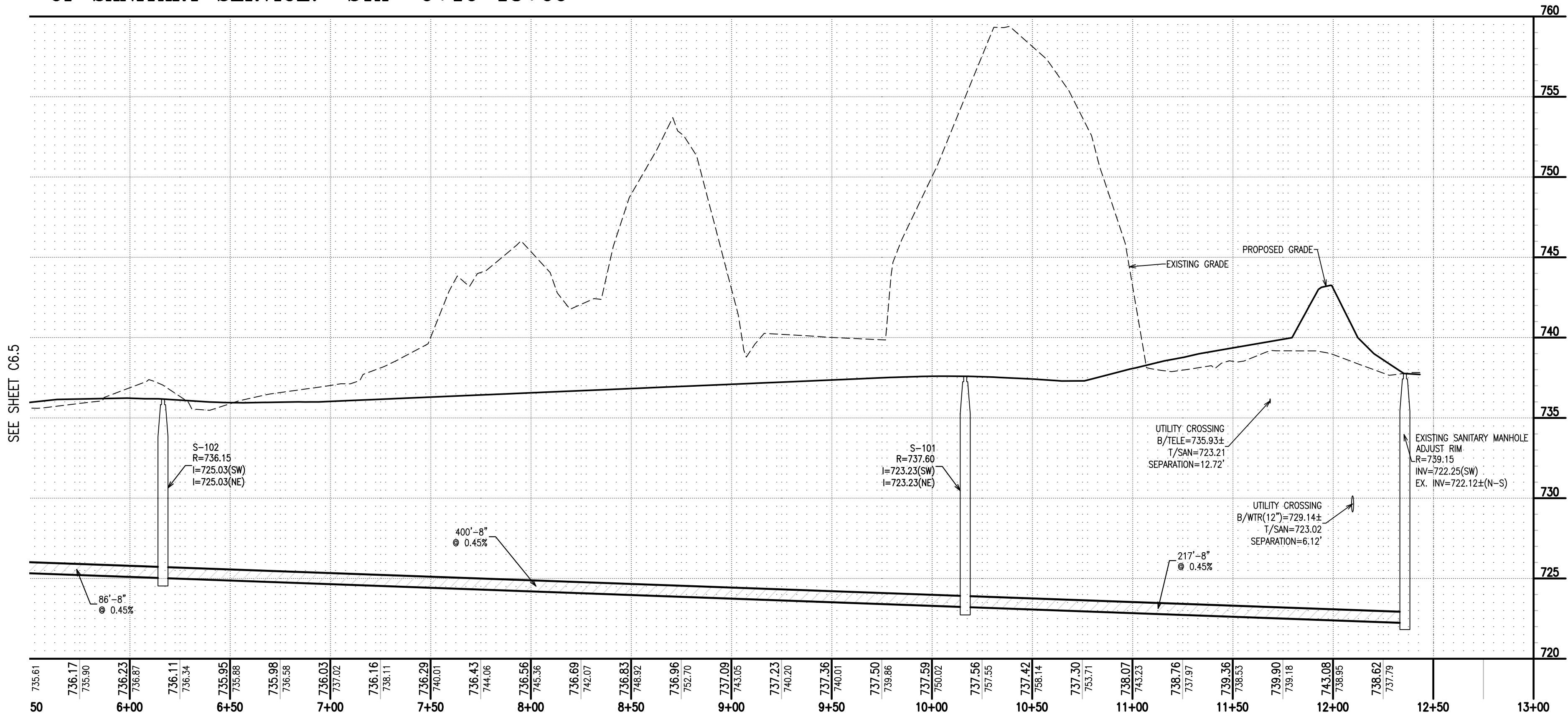
JACOB & HEFNER
ASSOCIATES

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

H477a

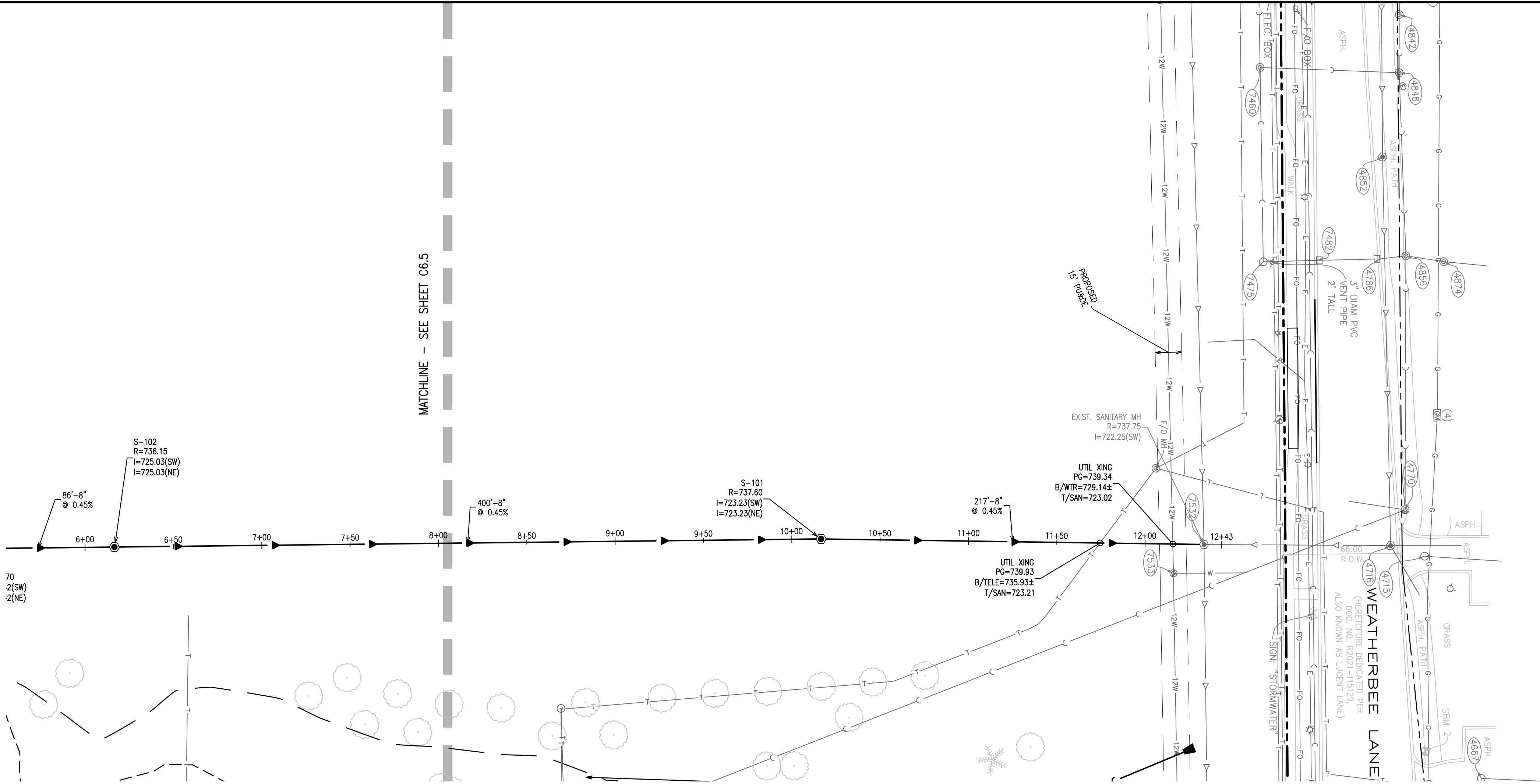
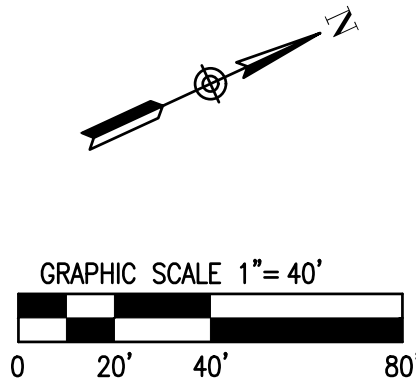
$$1'' = 40$$

OF SANITARY SERVICE: STA -0+10-13+00



PLAN AND PROFILE NOTES
SEE SHEET C6.0 FOR UTILITY NOTES

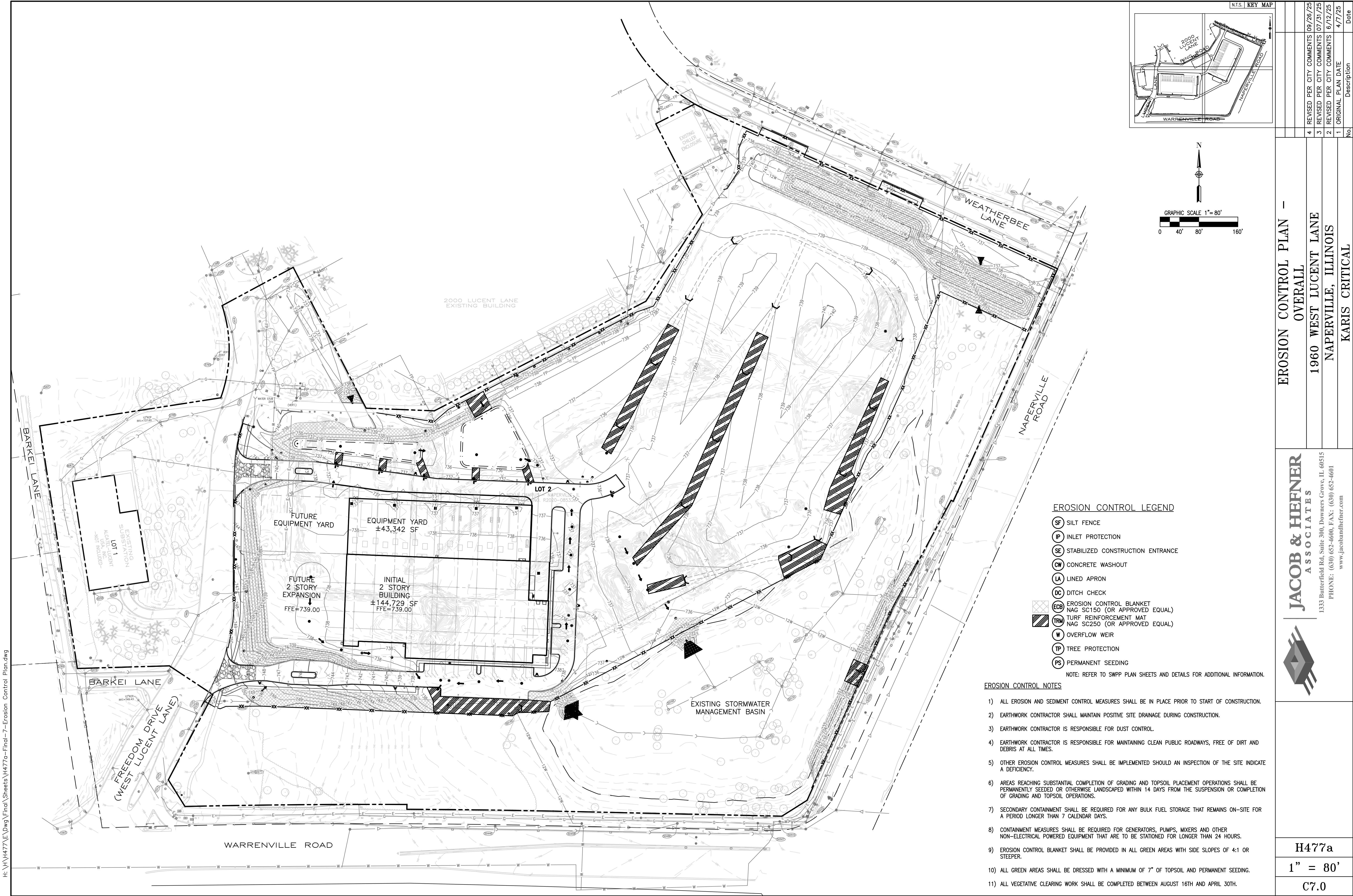
PROFILE LEGEND	
	PROPOSED GROUND SURFACE
	EXISTING GROUND SURFACE
	STORM SEWER
	SANITARY SEWER

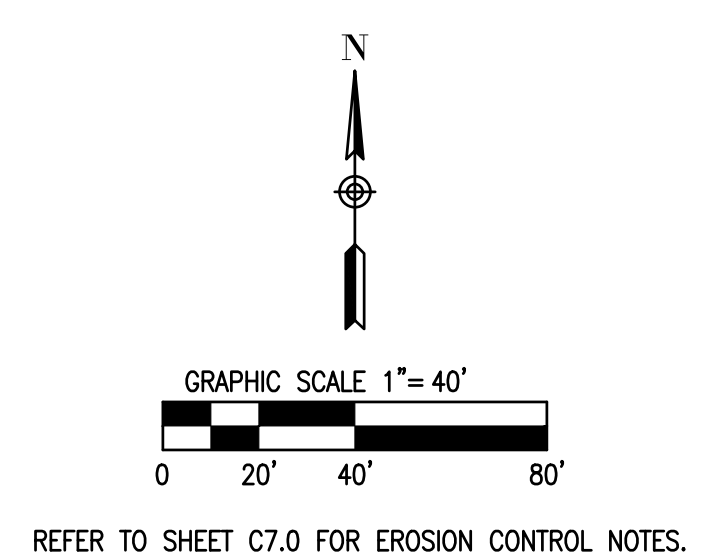
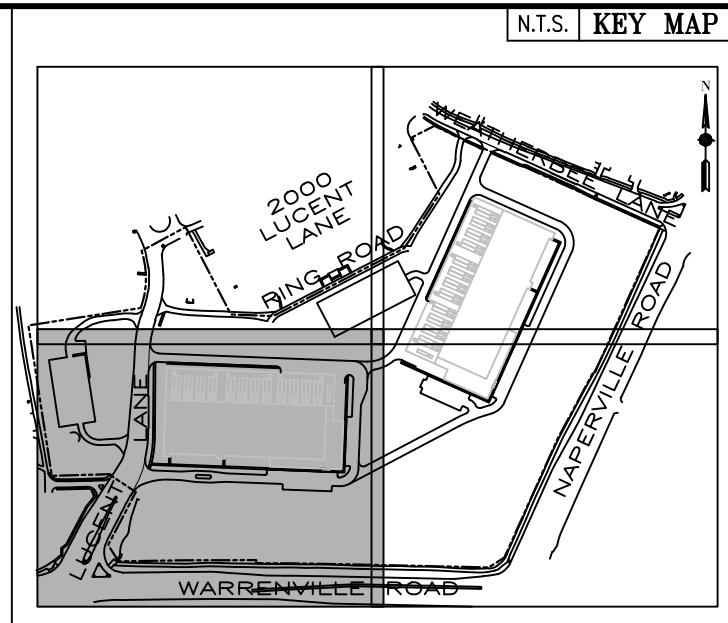
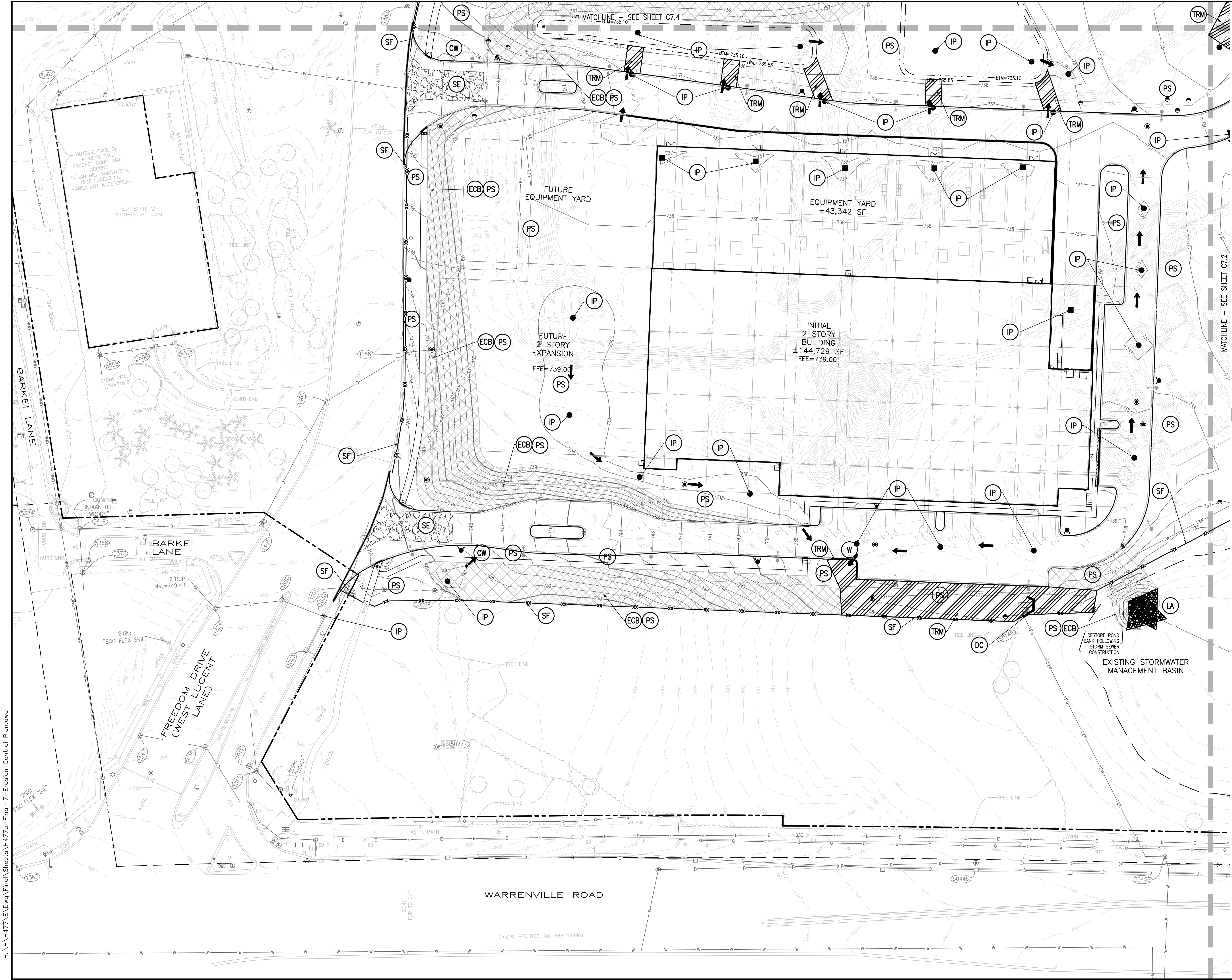


SANITARY PLAN & PROFILE		No.	Description	Date
1960 WEST LUCENT LANE		4	REVISED PER CITY COMMENTS	09/26/25
NAPERVILLE, ILLINOIS		3	REVISED PER CITY COMMENTS	07/31/25
KARIS CRITICAL		2	REVISED PER CITY COMMENTS	6/12/25
		1	ORIGINAL PLAN DATE	4/7/25

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

H:\H4777\DWG\Final\Sheets\H477a-Final-7-Erosion Control Plan.dwg



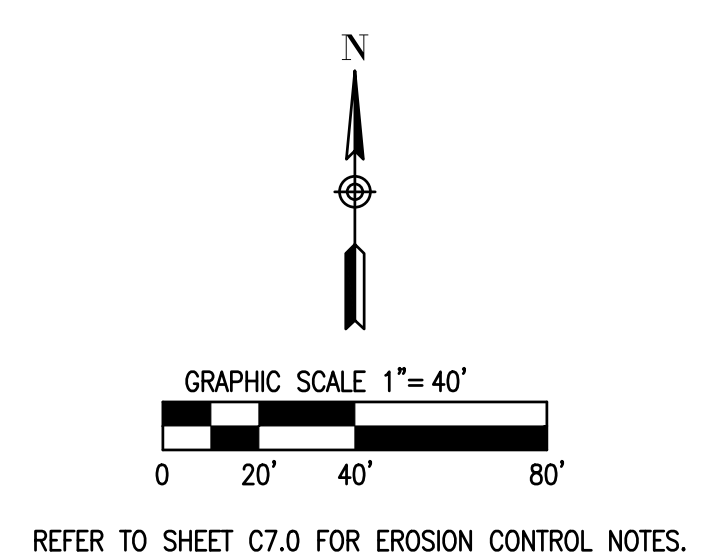
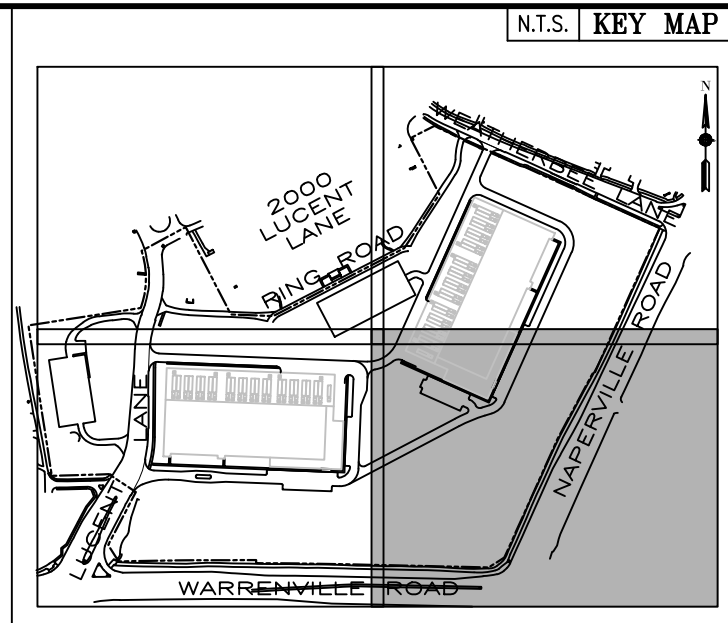
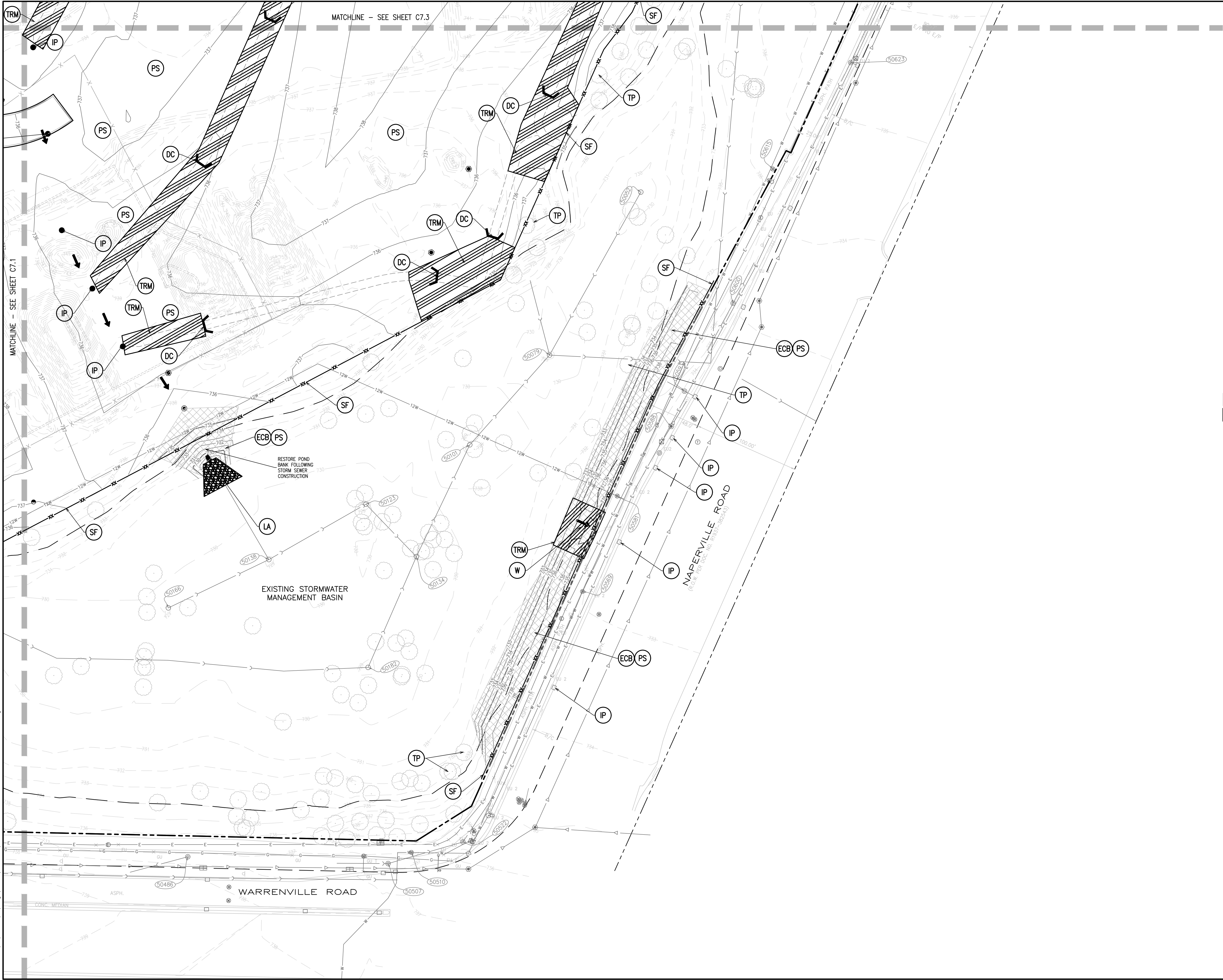


- REFER TO SHEET C7.0 FOR EROSION CONTROL NOTES.
- EROSION CONTROL LEGEND**
- (SF) SILT FENCE
 - (IP) INLET PROTECTION
 - (SE) STABILIZED CONSTRUCTION ENTRANCE
 - (CW) CONCRETE WASHOUT
 - (LA) LINED APRON
 - (DC) DITCH CHECK
 - (ECB) EROSION CONTROL BLANKET
NAG SC150 (OR APPROVED EQUAL)
 - (TRM) TURF REINFORCEMENT MAT
NAG SC250 (OR APPROVED EQUAL)
 - (W) OVERFLOW WEIR
 - (TP) TREE PROTECTION
 - (PS) PERMANENT SEEDING
- NOTE: REFER TO SWPP PLAN SHEETS AND DETAILS FOR ADDITIONAL INFORMATION.

EROSION CONTROL PLAN - SOUTHWEST	
1960 WEST LUCENT LANE NAPERVILLE, ILLINOIS	
KARIS CRITICAL	
1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com	
H477a	
1" = 40'	
C7.1	

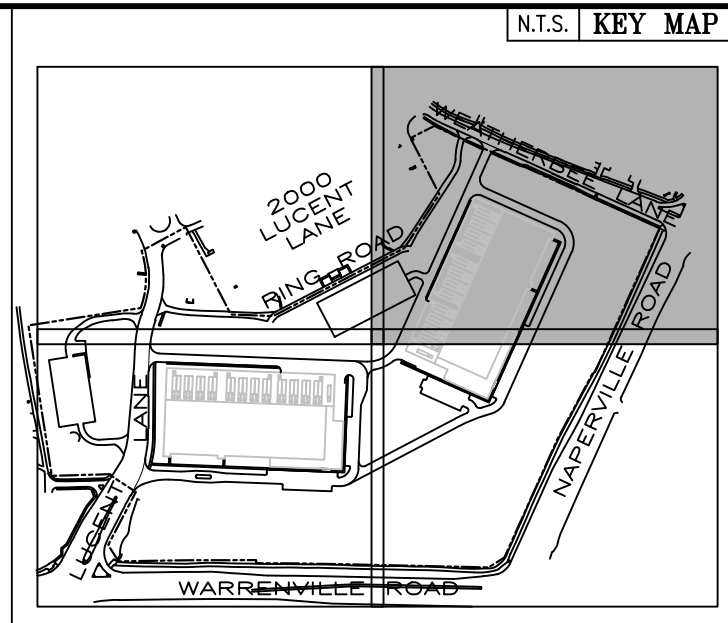
No.	Description	Date
4	REVISED PER CITY COMMENTS	09/26/25
3	REVISED PER CITY COMMENTS	07/31/25
2	REVISED PER CITY COMMENTS	6/12/25
1	ORIGINAL PLAN DATE	4/7/25

H:\H477a\Drawings\Final\Sheets\H477a-Final-7-Erosion Control Plan.dwg



- REFER TO SHEET C7.0 FOR EROSION CONTROL NOTES.
- EROSION CONTROL LEGEND**
- (SF) SILT FENCE
 - (IP) INLET PROTECTION
 - (SE) STABILIZED CONSTRUCTION ENTRANCE
 - (CW) CONCRETE WASHOUT
 - (LA) LINED APRON
 - (DC) DITCH CHECK
 - (ECB) EROSION CONTROL BLANKET
NAG SC150 (OR APPROVED EQUAL)
 - (TRM) TURF REINFORCEMENT MAT
NAG SC250 (OR APPROVED EQUAL)
 - (W) OVERFLOW WEIR
 - (TP) TREE PROTECTION
 - (PS) PERMANENT SEEDING
- NOTE: REFER TO SWPP PLAN SHEETS AND DETAILS FOR ADDITIONAL INFORMATION.

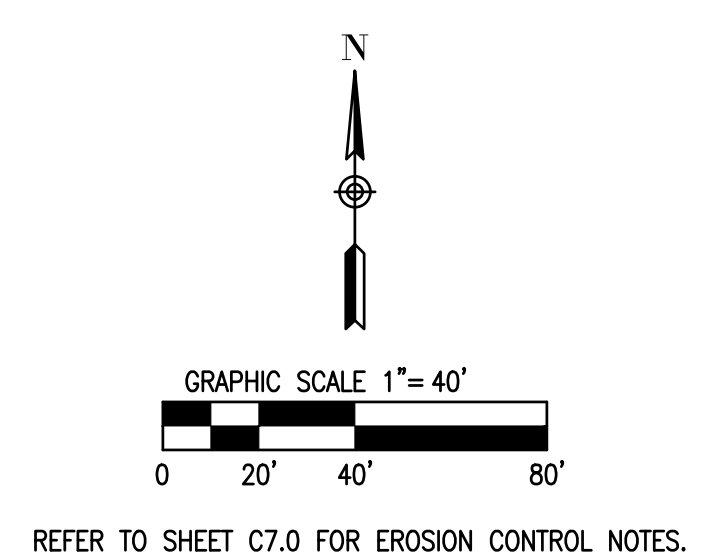
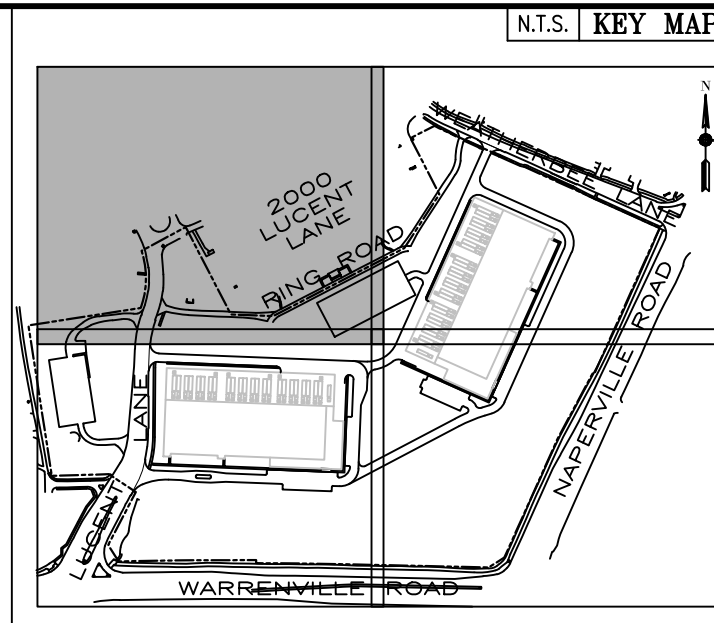
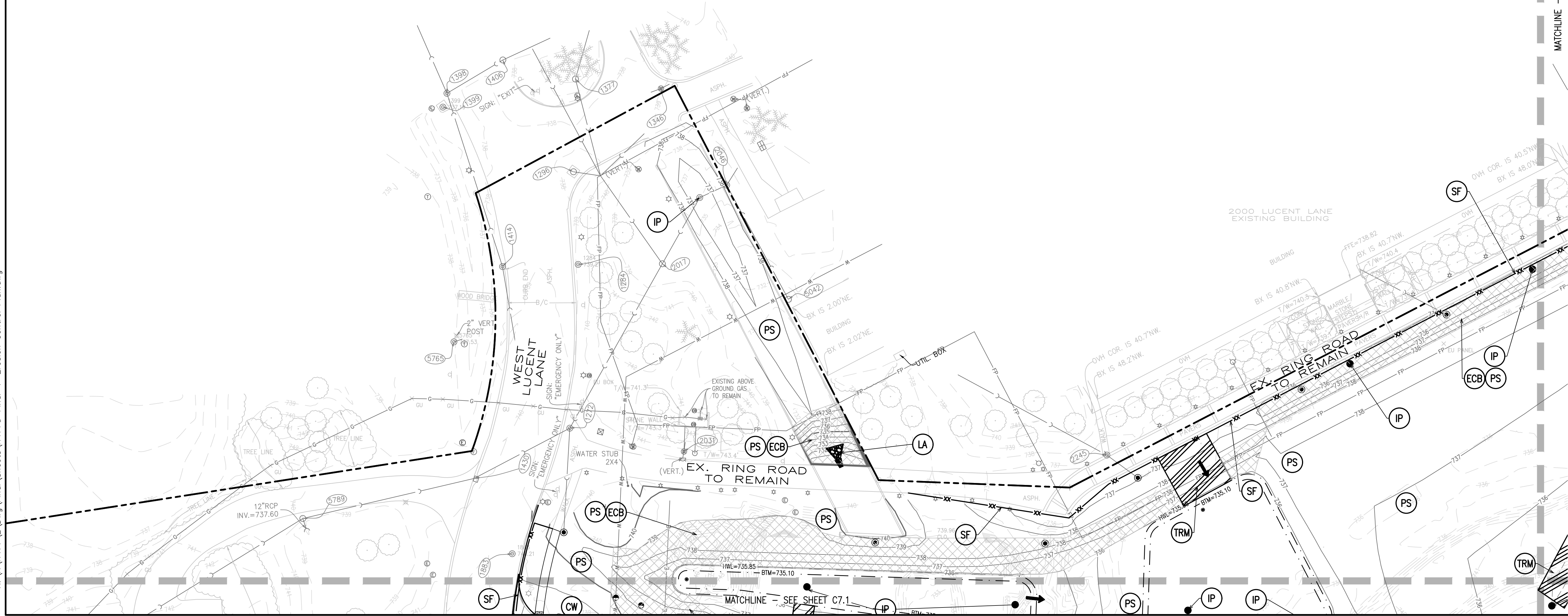
		EROSION CONTROL PLAN - SOUTHEAST 1960 WEST LUCENT LANE NAPERVILLE, ILLINOIS KARIS CRITICAL	
JACOB & HEFNER ASSOCIATES 1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com		4 REVISED PER CITY COMMENTS 09/26/25 3 REVISED PER CITY COMMENTS 07/31/25 2 REVISED PER CITY COMMENTS 6/12/25 1 ORIGINAL PLAN DATE 4/7/25	
		No.	Date
		Description	
H477a 1" = 40' C7.2			



- REFER TO SHEET C7.0 FOR EROSION CONTROL NOTES.
- EROSION CONTROL LEGEND**
- (SF) SILT FENCE
 - (IP) INLET PROTECTION
 - (SE) STABILIZED CONSTRUCTION ENTRANCE
 - (CW) CONCRETE WASHOUT
 - (LA) LINED APRON
 - (DC) DITCH CHECK
 - (ECB) EROSION CONTROL BLANKET
NAG SC150 (OR APPROVED EQUAL)
 - (TRM) TURF REINFORCEMENT MAT
NAG SC250 (OR APPROVED EQUAL)
 - (W) OVERFLOW WEIR
 - (TP) TREE PROTECTION
 - (PS) PERMANENT SEEDING
- NOTE: REFER TO SWPP PLAN SHEETS AND DETAILS FOR ADDITIONAL INFORMATION.

EROSION CONTROL PLAN - NORTHEAST		H477a	
1960 WEST LUCENT LANE		1" = 40'	
NAPERVILLE, ILLINOIS		C7.3	
KARIS CRITICAL			
JACOB & HEFNER ASSOCIATES			
1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com			
4	REVISED PER CITY COMMENTS	09/26/25	Date
3	REVISED PER CITY COMMENTS	07/31/25	Description
2	REVISED PER CITY COMMENTS	6/12/25	
1	ORIGINAL PLAN DATE	4/7/25	
No.			

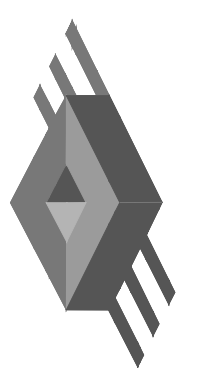
H:\H477a\Drawings\Final\Sheets\H477a-Final-7-Erosion Control Plan.dwg



- REFER TO SHEET C7.0 FOR EROSION CONTROL NOTES.
- EROSION CONTROL LEGEND
- (SF) SILT FENCE
 - (IP) INLET PROTECTION
 - (SE) STABILIZED CONSTRUCTION ENTRANCE
 - (CW) CONCRETE WASHOUT
 - (LA) LINED APRON
 - (DC) DITCH CHECK
 - (ECB) EROSION CONTROL BLANKET
NAG SC150 (OR APPROVED EQUAL)
 - (TRM) TURF REINFORCEMENT MAT
NAG SC250 (OR APPROVED EQUAL)
 - (W) OVERFLOW WEIR
 - (TP) TREE PROTECTION
 - (PS) PERMANENT SEEDING
- NOTE: REFER TO SWPP PLAN SHEETS AND DETAILS FOR ADDITIONAL INFORMATION.

MATCHLINE -- SEE SHEET C7.3

H477a			JACOB & HEFNER ASSOCIATES 1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com	EROSION CONTROL PLAN - NORTHWEST				
1" = 40'				1960 WEST LUCENT LANE				
C7.4				NAPERVILLE, ILLINOIS				
				KARIS CRITICAL				
		No.	Description	PLAN DATE	CITY COMMENTS	PER CITY COMMENTS		
		1	ORIGINAL	4/7/25	6/12/25	09/26/25		
		2	REVISED		6/12/25	07/31/25		
		3	REVISED					
		4	REVISED					



JACOB & HEFNER
ASSOCIATES

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

CONTROL MEASURE GROUP	CONTROL MEASURE	APPL	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMIT	MAINTENANCE FREQUENCY
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	X	TS	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X		REDO ANY FAILING AREAS.
	PERMANENT SEEDING	X	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		X	REDO ANY FAILING AREAS.
	DORMANT SEEDING		DS	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.	X	X	RE-SEED IF NEEDED.
	SODDING		SO	QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGE WAYS WHERE SEEDING MAY BE DIFFICULT.	X	X	N/A
NON VEGETATIVE SOIL COVER	MACHINE TRACKING		CC	PROVIDES SOIL ROUGHING FOR EROSION CONTROL.		X	N/A
	POLYMER		P	ADDS INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. PROVIDES TEMPORARY COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	X	X	REAPPLY EVERY 1½ MONTHS.
	AGGREGATE COVER		AG	PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.	X	X	CLEAN UP DIRT FROM STONE AS NEEDED.
	PAVING	X	PV	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		X	N/A
DIVERSIONS	RIDGE DIVERSION		RD	TYPICALLY USED ABOVE SLOPES TO COLLECT FLOW AND TRANSFER DOWNSLOPE.	X	X	CLEAN SILT OUT WHEN HALF-FULL.
	CHANNEL DIVERSION		CD	TYPICALLY USED TO DIVERT FLOW.	X	X	REPLACE PROTECTION WHEN NEEDED.
	COMBINATION DIVERSION		DIC	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.	X	X	REPLACE PROTECTION WHEN NEEDED.
	CURB AND GUTTER	X	CG	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		X	N/A
	BENCHES		B	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.	X	X	N/A
WATERWAYS	VEGETATIVE CHANNEL		VC	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.	X	X	REDO ANY FAILING AREAS.
	LINED CHANNEL		LC	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.	X	X	REPLACE PROTECTION WHEN NEEDED.
ENCLOSED DRAINAGE	STORM SEWER	X	STM	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		X	CLEAN SEDIMENT OUT.
	UNDER DRAIN	X	UD	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DETAINE SEDIMENT BASINS.	X	X	N/A
SPILLWAYS	STRAIGHT PIPE SPILLWAY		SPS	USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		X	CLEAN OUT CONSTRUCTION DEBRIS.
	DROP INLET PIPE SPILLWAY		DBS	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		X	CLEAN OUT CONSTRUCTION DEBRIS.
	WEIR SPILLWAY	X	W	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.	X	X	CLEAN OUT CONSTRUCTION DEBRIS.
	BOX INLET WEIR SPILLWAY		BS	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.	X	X	CLEAN OUT CONSTRUCTION DEBRIS.
OUTLETS	LINED APRON	X	LA	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.	X	X	REPAIR DISLODGED STONES OR EROSION UNDER RIP-RAP AS NEEDED.
SEDIMENT BASINS	SEDIMENT BASIN		SB	USED TO COLLECT SMALLER PARTICLES - DETAIN WATER WITH CONTROLLED RELEASE.	X	X	CLEAN SEDIMENT OUT WHEN HALF-FULL.
	SEDIMENT TRAP		ST	USED TO COLLECT LARGER PARTICLES - DETAIN WATER WITH CONTROLLED RELEASE.	X	X	CLEAN SEDIMENT OUT WHEN HALF-FULL.
SEDIMENT FILTERS	SILT FENCE	X	SF	USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN 1/2 ACRE TO FILTER SEDIMENT FROM RUNOFF.	X		CLEAN SEDIMENT OUT WHEN SILT IS HALF-FULL. REPAIR ANY DAMAGED SILT FENCE WHEN NEEDED.
	VEGETATIVE FILTER		VF	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.	X	X	REDO ANY FAILING AREAS.
MUD AND DUST CONTROL	STABILIZED CONST. ENTRANCE	X	SE	PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	X	X	SCRAPE MUD AND REPLACE STONE AS NEEDED.
	DUST CONTROL	X	DT	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	X	X	RE-APPLY AS NEEDED.
EROSION CONTROL	EROSION CONTROL BLANKET	X	ECB	PROTECTS SOIL, SEED AND HELPS GROW VEGETATION.			REPLACE AS NEEDED.
	TURF REINFORCEMENT MAT	X	TRM	REINFORCES TURF IN CHANNELS AND SHORELINES.			REPLACE AS NEEDED.
	CELLULAR CONFINEMENT		CF	USED TO HOLED TOPSOIL ON STEEP SLOPES.			REPLACE AS NEEDED.
	GABIONS		GA	USED TO PREVENT EROSION IN VERY HIGH FLOW AREAS.			REPLACE AS NEEDED.
	GEOTEXTILE FABRIC		GF	USED FOR EROSION / SEDIMENT CONTROL/ SEPARATION / STABILIZATION.			REPLACE AS NEEDED.
	GEOBLOCK POROUS PAVEMENT		PP	USED FOR FIRE LANE ACCESS / VEGETATIVE PAVEMENT.			REPLACE AS NEEDED.
SEDIMENT CONTROL	INLET PROTECTION	X	IP	USED FOR PROTECTION OF INLETS.			REPLACE OR CLEAN WHEN CLOGGED.
	SLOPE INTERRUPT		SI	USED TO BREAK UP THE FLOW ON A SLOPE.			CLEAN OUT WHEN HALF-FULL OF SILT.
	DITCH CHECK	X	DC	USED FOR FLOW SEDIMENT CONTROL IN SWALES AND CHANNELS.			CLEAN OUT WHEN HALF-FULL OF SILT.
	FLOC LOG		FL	USED TO CLARIFY WATER THAT HAS SEDIMENT IN THE WATERY COLUMN.			REPLACE WHEN HALF DISSOLVED.
	SILT CURTAIN		SC	USED FOR SEDIMENT CONTROL IN STREAM / POND.			REPLACE WHEN FABRIC IS TORN OR HOLES BEGIN TO FORM.
	PUMPING DISCHARGE BAG		PB	USED FOR PUMP DISCHARGE LINES.			REPLACE WHEN HALF-FULL. FABRIC IS TORN, OR HOLES BEGIN TO FORM.
	CONCRETE WASHOUT	X	CW	FOR CONCRETE TRUCKS TO WASHOUT.			CLEAN OUT WHEN HALF-FULL. CLEAN WASHOUT GRAVEL AREA AS NEEDED.
	STREET SWEEPING	X	SS	USED TO PREVENT SILT BUILD UP IN STREETS.			CLEAN ONCE A WEEK, OR AS NEEDED TO KEEP STREET CLEAN.

SEEDING CHART

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A			•	•					
DORMANT SEEDING	B									B		
TEMPORARY SEEDING			C				D					
SODDING			E**									
MULCHING	F											

- A KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE.

B KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE.
- C SPRING OATS 100 LBS/ACRE

D WHEAT OR CEREAL RYE 150 LBS/ACRE.

E SOD

F STRAW MULCH 2 TONS/ACRE.

- * IRRIGATION NEEDED DURING JUNE AND JULY.
- ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
- *** MOW LAWNS AS NECESSARY

OBSERVATION & MAINTENANCE SCHEDULE		
ACTIVITY	RESPONSIBLE PARTY	DURATION
STABILIZATION DURING CONSTRUCTION-MAINTENANCE	CONTRACTOR	DURING CONSTRUCTION
STABILIZATION DURING CONSTRUCTION-OBSERVATION	DEVELOPER/OWNER	WEEKLY & AFTER EACH RAINFALL EVENT IN EXCESS OF 0.5".
VEGETATION MAINTENANCE	CONTRACTOR	1 YEAR FROM COMPLETION
VEGETATION STABILIZATION MAINTENANCE	DEVELOPER/OWNER	ONGOING FROM CONSTRUCTION COMPLETION

NOTES:

This plan has been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for Stormwater Discharges from Construction Site Activities and Soil Erosion and Sediment Control Ordinance for the County.

1. Site Description.

- a. The following is a description of the construction activity following mass grading which is the subject of this plan:
- The proposed development consists of construction of Industrial Development
- The construction activities for site improvements will include:
- mass grading, pavement construction, installation of utilities including storm sewers, soil erosion and sedimentation control measures, as a minimum.
- b. The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation, and grading:
- The sequence of the construction activities may be as follows: 1) install silt filter fence and stabilized construction entrance, 2) mass grading, 3) underground utilities installation, 4) fine grading in pavement area and 5) pavement construction. The soil erosion and sedimentation control items will be constructed as needed during the above construction activities.
- c. The total area of the construction site is estimated to be 41.43 acres.
- The total area of the site that it is estimated to be disturbed by excavation, grading, or other activities, is 423.94 acres.
- d. The estimated runoff coefficients of the various areas of the site after construction activities are completed are contained in the project drainage study, titled Stormwater Management for 1960 West Lucent Lane prepared by Jacob & Hefner Associates, Inc. which is hereby incorporated by reference in this plan. The estimated proposed overall site runoff coefficient is _____.
- e. Existing data describing soils or quality of discharge (soils report if available) Fair/Poor/Good/Not Available
- f. Name of receiving water(s): Eastern Branch of the DuPage River
- g. Name of ultimate receiving water(s): DuPage River
- h. Wetland acreage: 0.00 acre

2. Controls.

- This section of the plan addresses the various controls that will be implemented for each of the major construction activities described in 1.b. above. For each measure discussed, the contractors will be responsible for its implementation as indicated. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan.
- a. Erosion and Sediment Controls.
- (i) STABILIZATION PRACTICES. Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as provided in 2.a.(i)(A) and 2.b., stabilization measures shall be initiated within 1 working day in portions of the site where construction activities have temporarily or permanently ceased and must be completed within 14 calendar days after the construction activity in that portion of the site has ceased on all disturbed portions of the site where construction activity will not occur for a period of 14 or more calendar days.
- Where the initiation of stabilization measures after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.
- The following interim and permanent stabilization practices, as a minimum, will be implemented to stabilize the disturbed area of the site:
1. Permanent seeding
 2. Silt filter fence
 3. Vegetative Filter
 4. Stabilized construction entrance
 5. Barrier filter
- (ii) STRUCTURAL PRACTICES. Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. The installation of these devices may be subject to Section 404 of the Clean Water Act.
1. Detention Pond
 2. Storm sewer system
 3. Rip-rap for outlet protection
 4. Permanent seeding
- (iii) DUST CONTROL: Dust Control shall be provided per standard 825 of Illinois Urban Manual. Following are the dust control that can be used.
1. Irrigation
 2. Spray on adhesive
 3. Vegetative cover
 4. Mulching

- b. Stormwater Management.
- (i) Provided below is a description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.
- The practices selected for implementation were determined on the basis of the technical guidance contained in IEPA's Standard Specifications for Soil Erosion and Sedimentation Control, and other ordinances listed in the Specifications.
- The stormwater pollutant control measures shall include:
1. Silt filter fence
 2. Barrier filters
 3. Storm sewers
 4. Retention/Detention ponds
- (ii) Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydropereiod and hydrodynamics present prior to the initiation of construction activities).
- Stormwater Management Control includes:
1. Rip-rap for outlet protection
 2. Ditch check
- c. Other Controls.
- (i) Waste Disposal. The solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed off-site by the contractor. The contractor is responsible to acquire any permit required for such disposal. Burning on the site will not be permitted. No solid materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
- (ii) The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
- The sanitary sewage will be discharged to the proposed sanitary sewer constructed per IEPA and local standards.
- d. Approved State or Local Plans.
- The management practices, controls, and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Standards and Specifications for Soil Erosion and Sediment Control dated October 1987, Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Plan, and the Municipal Subdivision Ordinance. Requirements specified in sediment and erosion control site plans or site permits or stormwater management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

3. Maintenance
- The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan and Standard Specifications.
- Stabilized construction entrance: The entrance shall be maintained to prevent tracking of sediment onto public streets. This will be done by top dressing with additional stones, remove and replace top layer of stones or washing the entrance. The sediment washed on the public right-of-way will be removed immediately.
- Vegetative erosion control measures: The vegetative growth of temporary and permanent seeding, sodding, vegetative channels, vegetative filter, etc. shall be maintained periodically and supply adequate watering and fertilizer. The vegetative cover shall be removed and reseeded as necessary.
- Sedimentation basins/traps: The sediments shall be removed when 40-50 percent of the total original capacity is occupied by the sediment. In no case shall the sediment be built up to more than 1 foot below the crest elevation. At this stage, the basin shall be cleaned out and returned to its original volume.
- Silt filter fence: The damaged silt filter fence shall be restored to meet the standards or removed and replaced as needed.
- Straw bale barrier filters: The straw bale barrier filter shall be inspected frequently and shall be repaired or removed and replaced as needed.
- Rip-Rap outlet protection: It shall be inspected after high flows for any scour beneath the Rip-Rap or for stones that have been dislodged. It shall be repaired immediately.

4. Inspections

- The Owner, or Owner's representative shall provide qualified personnel to inspect disturbed areas of the construction site which have not been finally stabilized, structural control measures, and location where vehicles enter or exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm (or by the end of the following business or work day) that consists of 0.5 inches or greater of rainfall or a discharge occurs due to snowmelt.
- a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.
- b. Based on the results of the inspection, the description of potential pollutant sources identified in section 1 above and pollution prevention measures identified in section 2 above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.
- c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this stormwater pollution prevention plan, and actions taken in accordance with section 4.b. shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI.G. of the general permit.
- d. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incidence of Noncompliance" (ON) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G. of the general permit. The report of noncompliance shall be mailed to the following address:
- ALL PACKAGES:
Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
2520 Iles Ave
Springfield, IL 62794-9276

ALL LETTERS:
Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
Post Office Box 19276
Springfield, IL 62794-9276

5. Non-Stormwater Discharge

- Except for flows from fire fighting activities, sources of non-stormwater that may be combined with stormwater discharges associated with the residential activity addressed in this plan, are described below:
1. Water main flushing
 2. Fire hydrant flushing
 3. Watering for dust control
 4. Irrigation drainage for vegetative growth for seeding, etc.
- The pollution prevention measures, as described below, will be implemented for non-stormwater components of the discharge:
- The fire hydrant and water main shall not be flushed directly on the exposed area or subgrade of the pavement. Hoses shall be used to direct the flow into the storm sewer system.
- The erosion due to irrigation of seeding shall be considered minor.

NPDES CERTIFICATE

This certification statement is a part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. ILR00000000, issued by the Environmental Protection Agency on _____

PROJECT TITLE: SITE IMPROVEMENT PLANS FOR 1960 WEST LUCENT LANE

PROJECT LOCATION: NAPERVILLE DUPAGE ILLINOIS
CITY/VILLAGE COUNTY STATE

DEVELOPER: KARIS CRITICAL

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

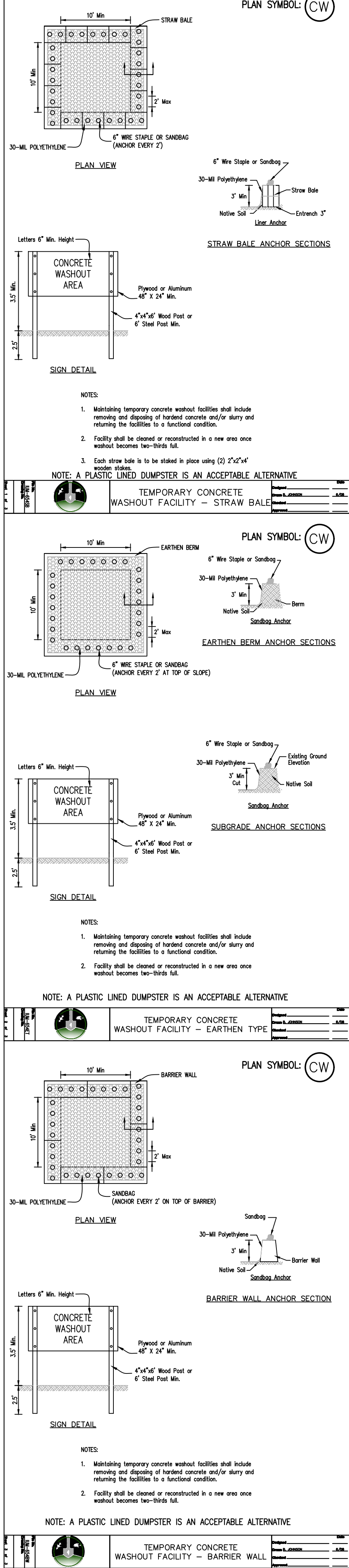
Signature: _____ Date: _____

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT

Name: _____ Signature _____

RIP-RAP DIMENSION TABLE

STRUCTURE NUMBER/POND	INLET PIPE SIZE (IN)	DISCHARGE Q (CFS)	LENGTH OF APRON Lg (FT)	MEDIAN RIPRAP SIZE (IN)	WIDTH OF APRON U/S FACE 3d (FT)	WIDTH OF APRON D/S FACE 3d+Ld (FT)	DEPTH OF RIP Y (IN)	AREA OF RIP RAP (SQ.YDS.)	VOLUME OF RIP RAP (CU.YDS.)
ALL	12	10	8 (DOT RR 3)	3.00	13.00	15	8.89	3.7	
ALL	15	10	8 (DOT RR 3)	3.75	13.75	15	9.72	4.1	
ALL	18	15	9 (DOT RR 4)	4.50	19.50	20	20.00	11.1	
ALL	21	15	9 (DOT RR 4)	5.25	20.25	20	21.25	11.8	
ALL	24	18	9 (DOT RR 4)	6.00	24.00	20	30.00	16.7	
ALL	27	18	9 (DOT RR 4)	6.75	24.75	20	31.50	17.5	
ALL	30	20	9 (DOT RR 4)	7.50	27.50	20	38.89	21.6	
ALL	36	24	12 (DOT RR 5)	9.00	33.00	28	56.00	43.6	
ALL	42	27	12 (DOT RR 5)	10.5	37.50	30	72.00	60.0	
ALL	48	27	15 (DOT RR 6)	12.0	39.00	32	76.50	68.0	
ALL	54	27	15 (DOT RR 6)	13.5	40.50	32	81.00	72.0	
ALL	60	36	15 (DOT RR 6)	15.0	51.00	32	132.00	118.0	
ALL	72	44	18 (DOT RR 7)	18.0	62.00	32	195.56	174.0	



STORMWATER POLLUTION PREVENTION PLAN

1960 WEST LUCENT LANE

NAPERVILLE, ILLINOIS

KARIS CRITICAL

REVISED PER CITY COMMENTS

09/26/25

REVISED PER CITY COMMENTS

07/31/25

REVISED PER CITY COMMENTS

6/12/25

ORIGINAL PLAN DATE

4/7/25

No.

Description

Date

JACOB & HEFNER ASSOCIATES

1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515

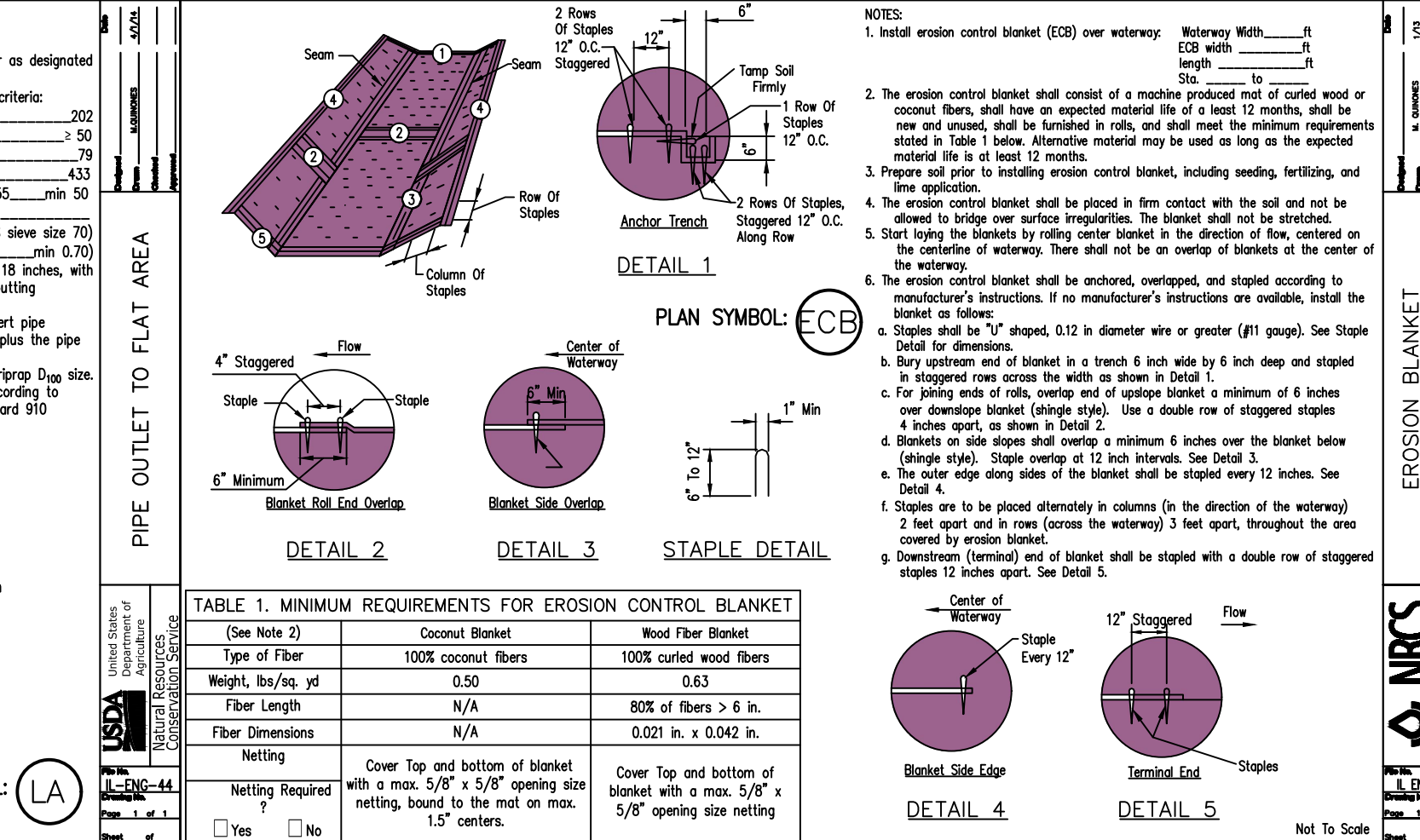
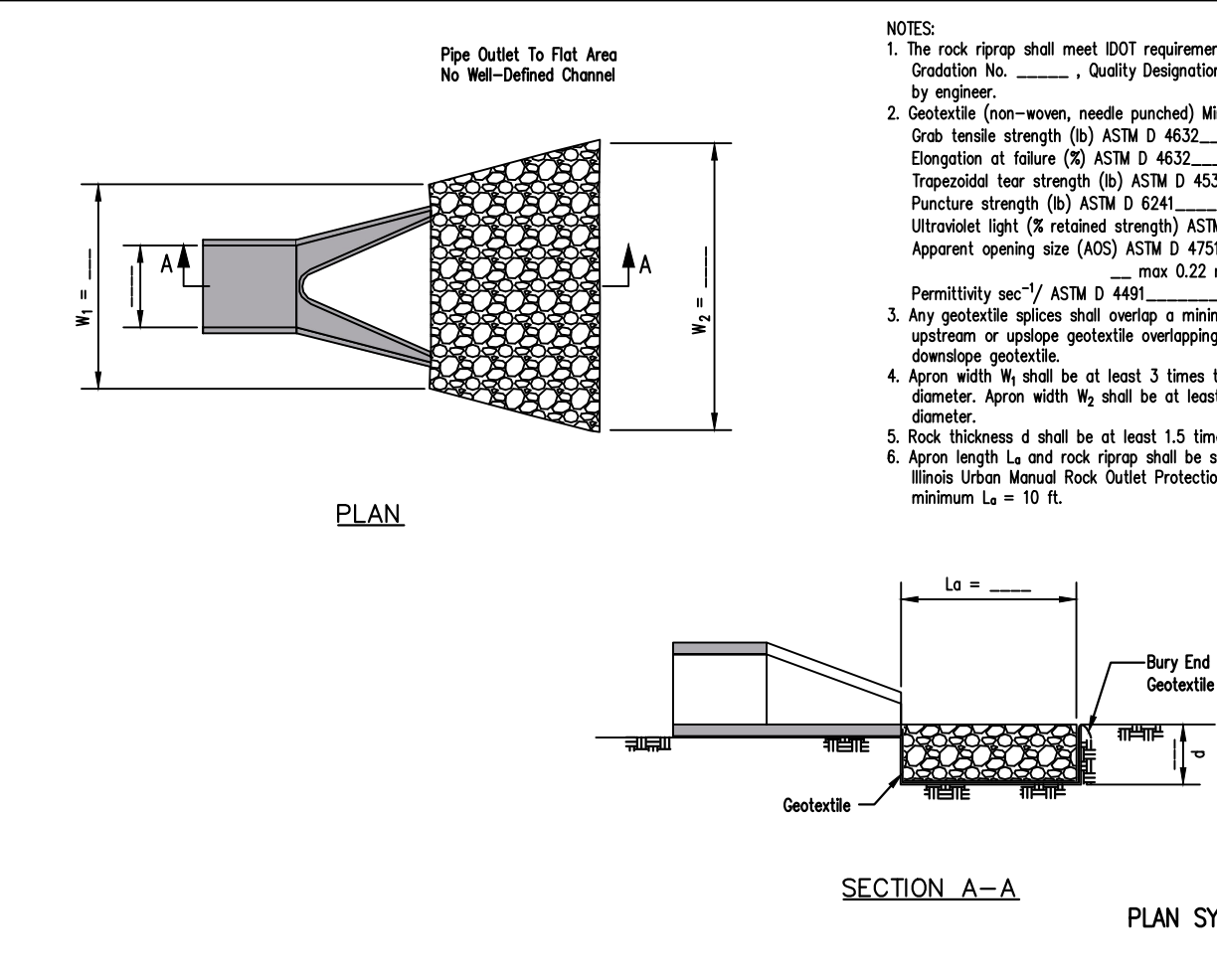
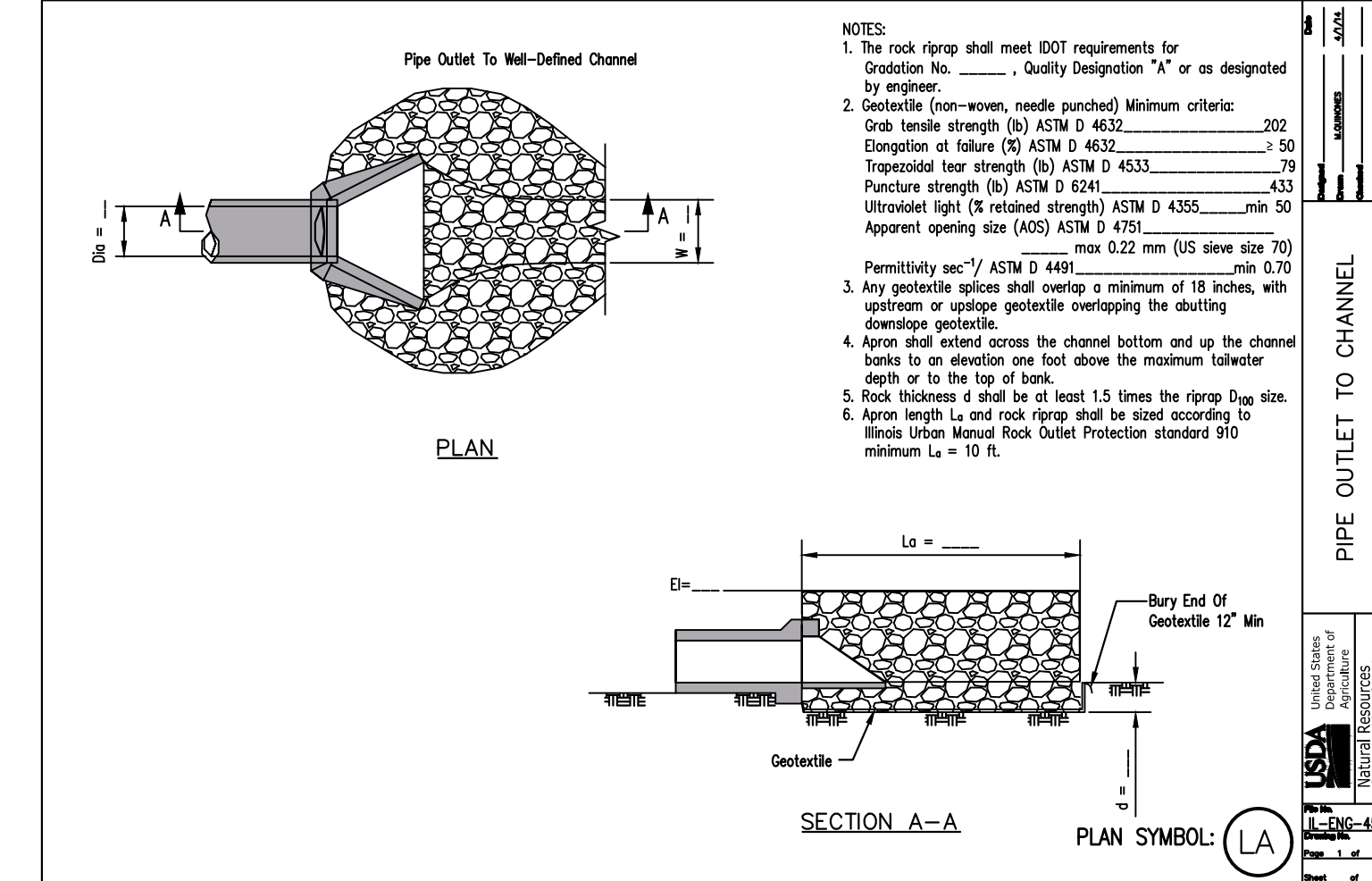
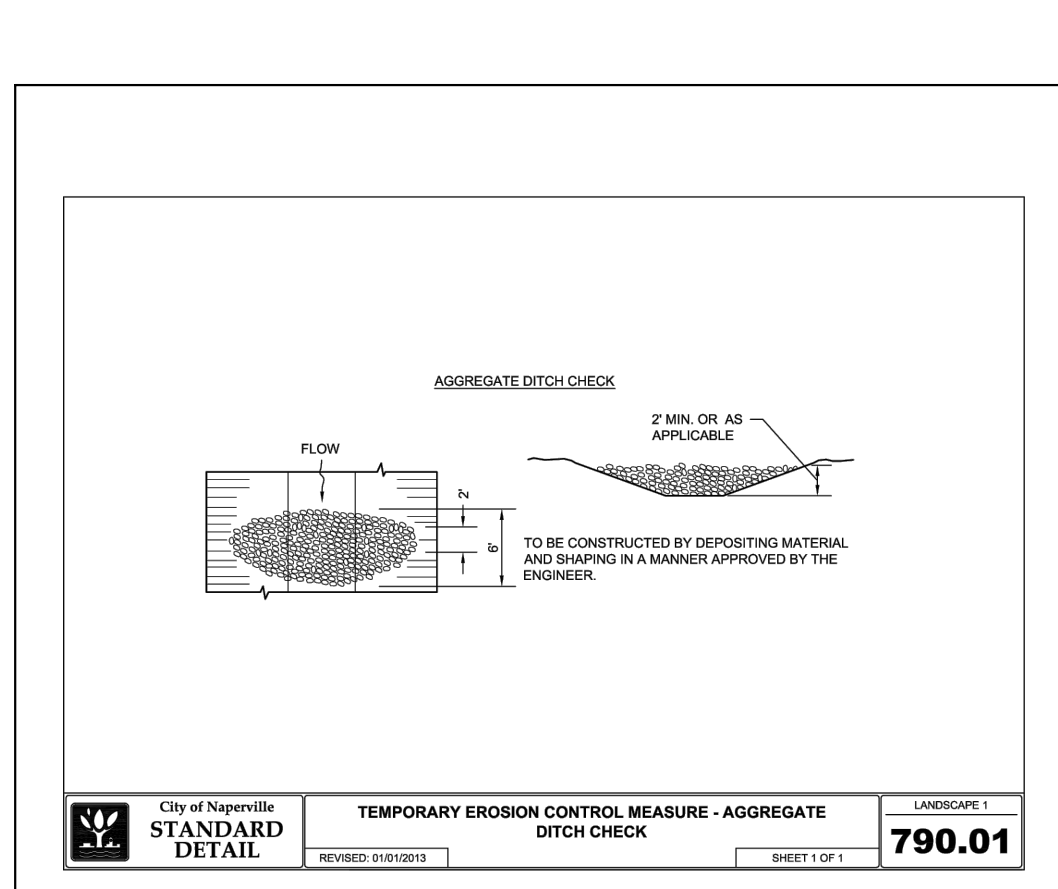
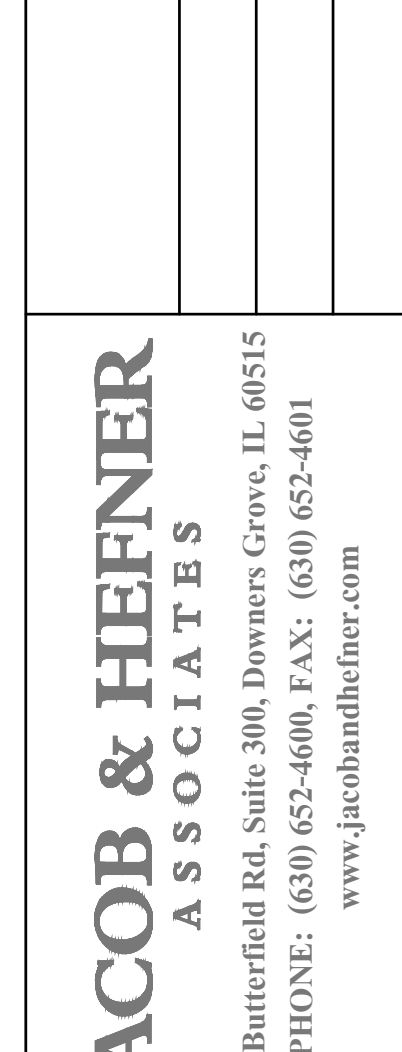
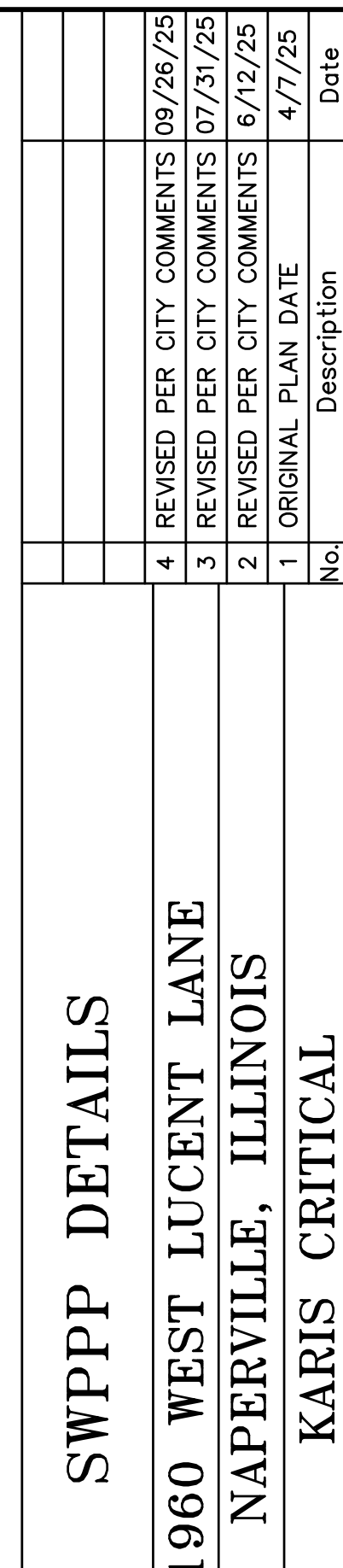
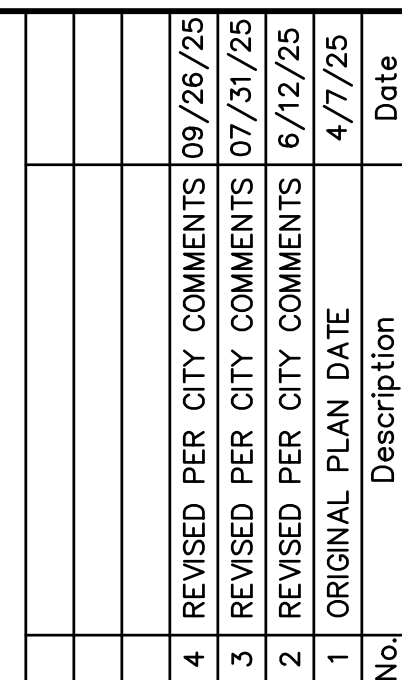
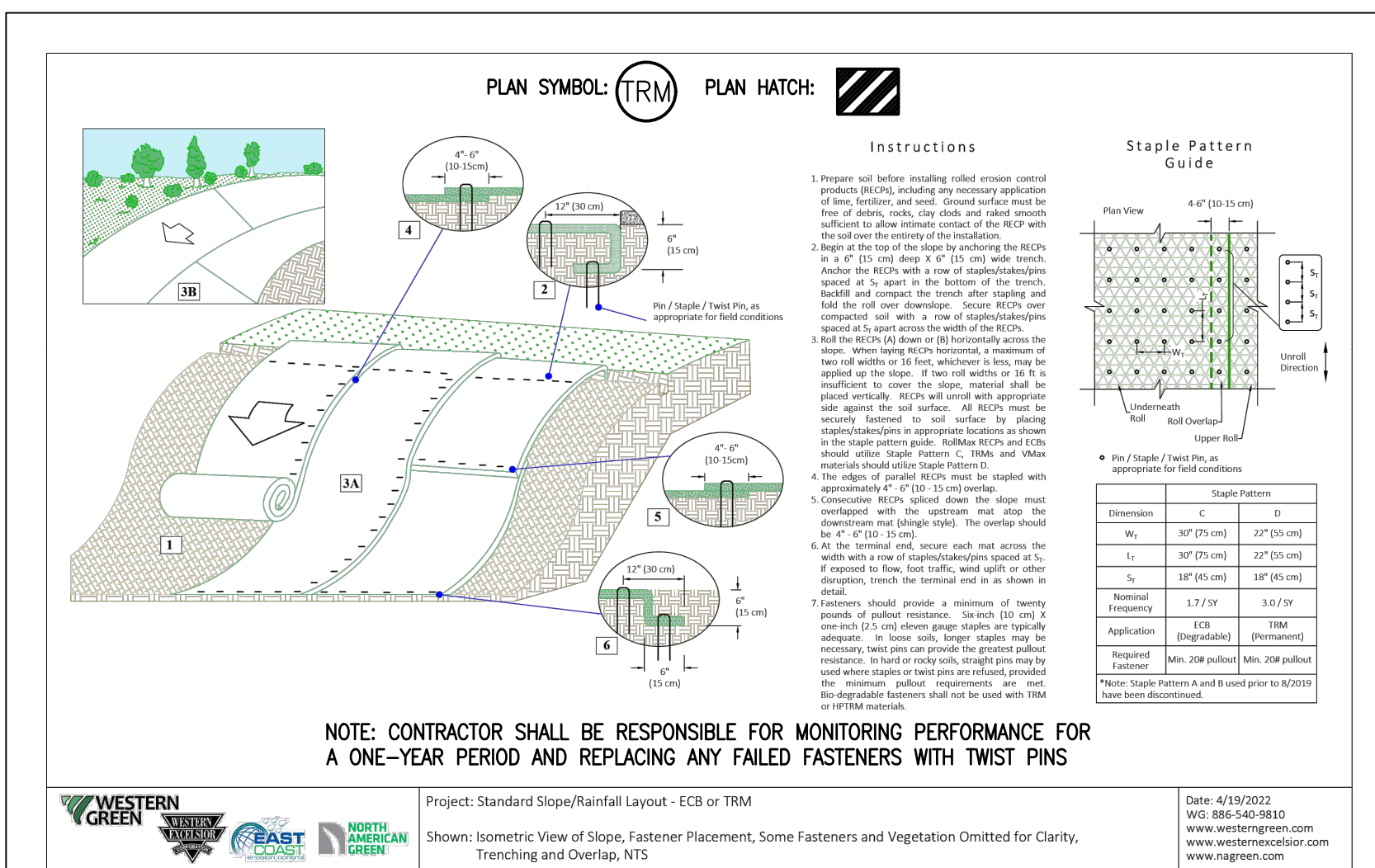
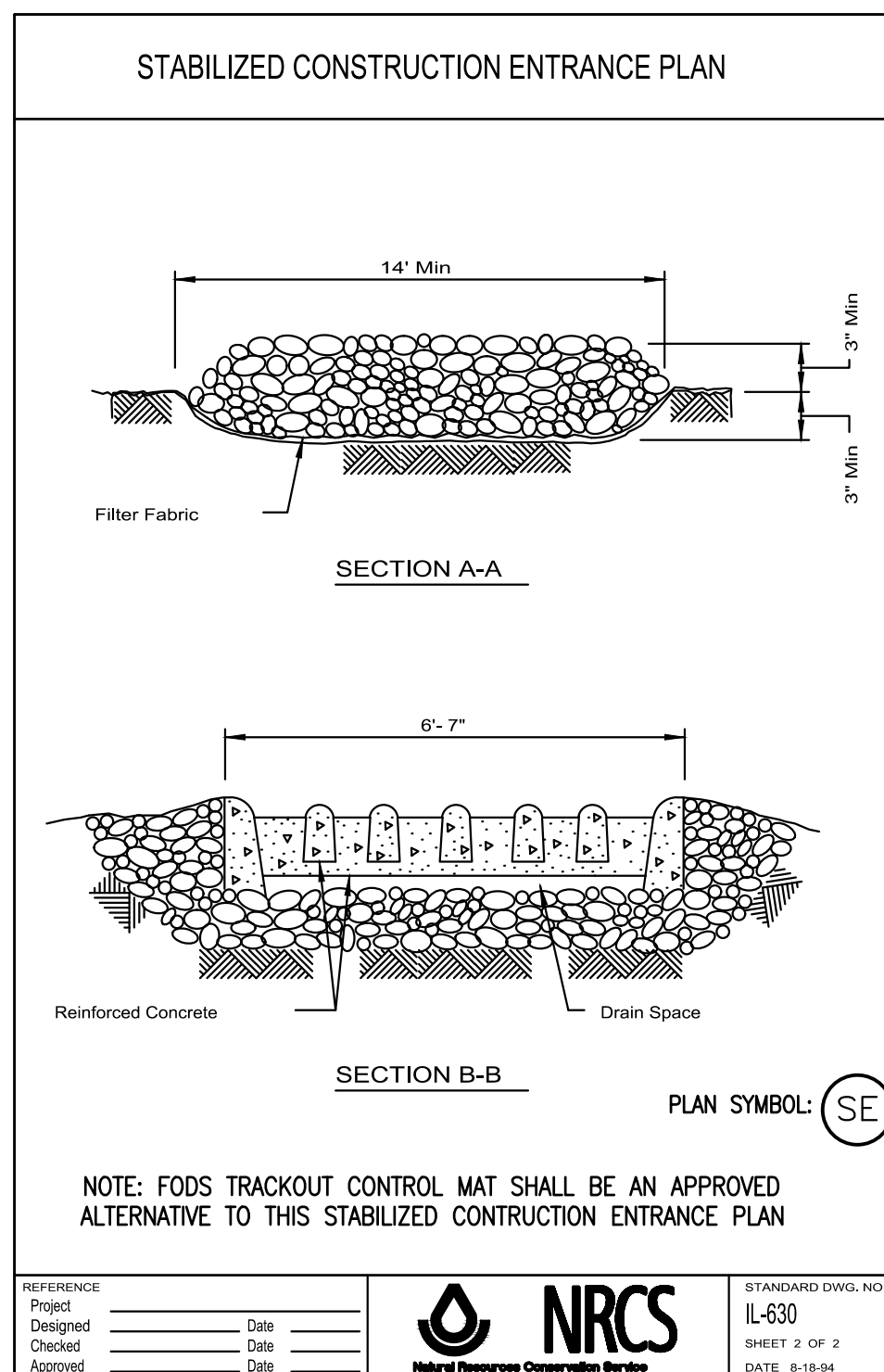
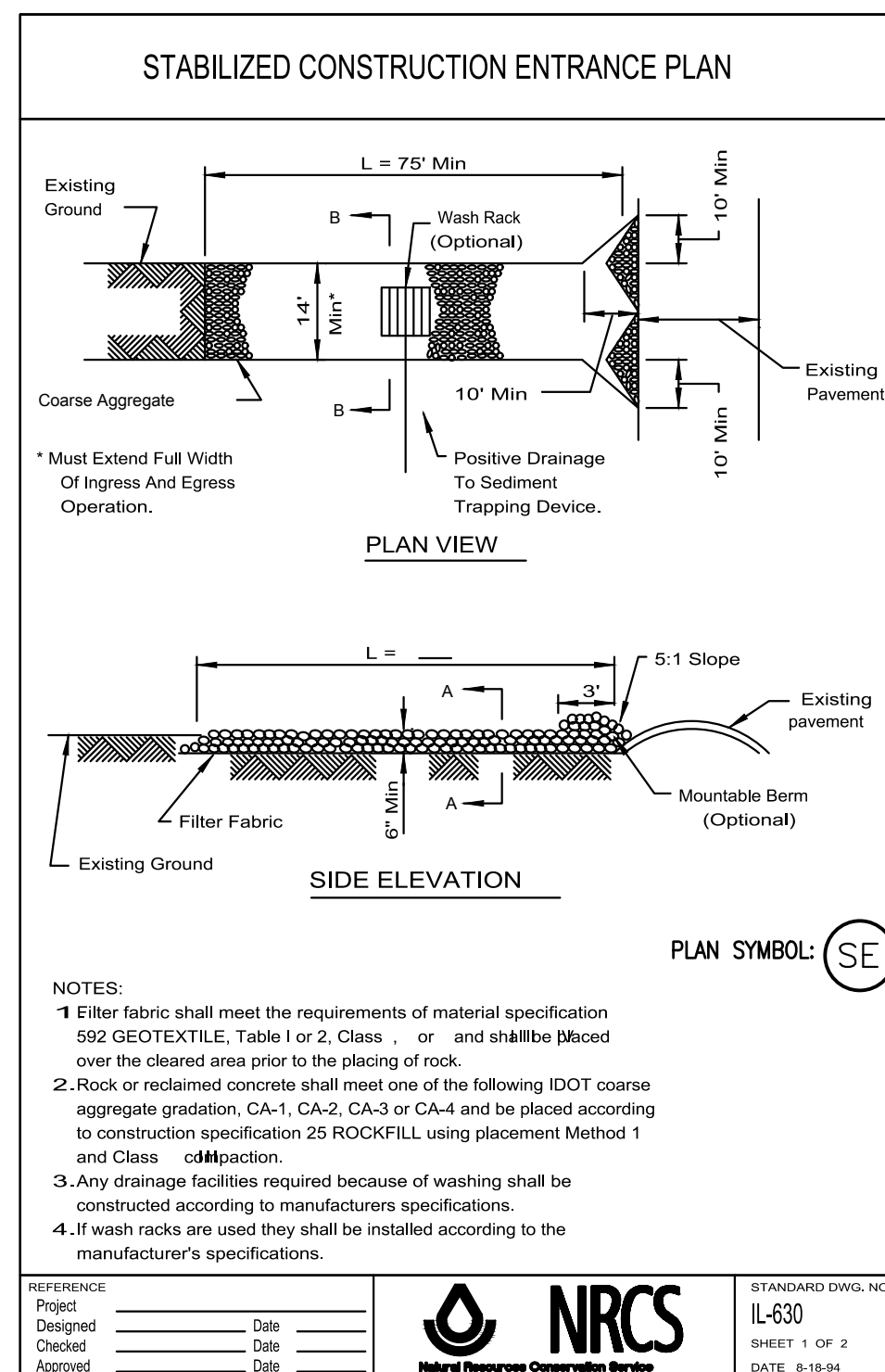
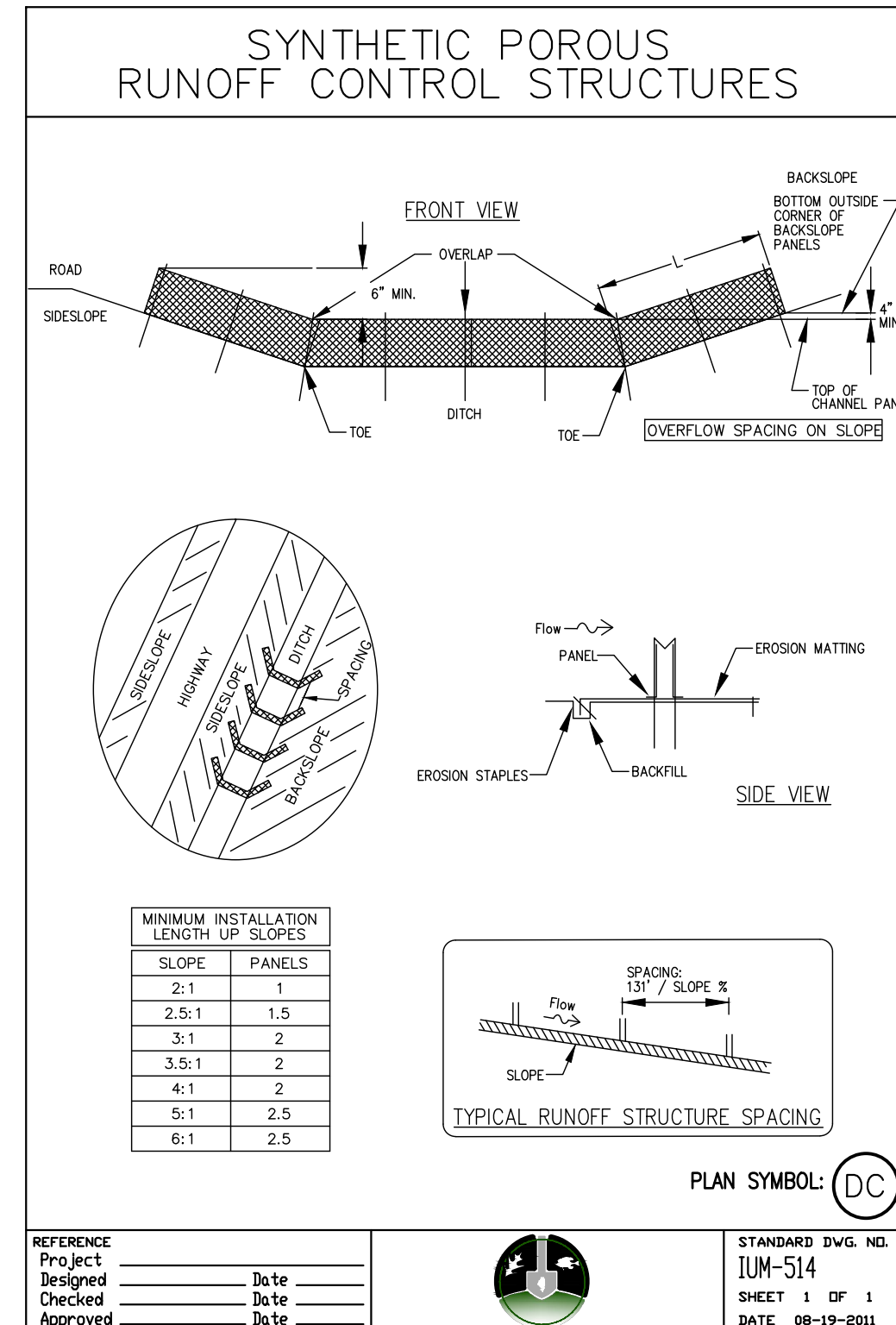
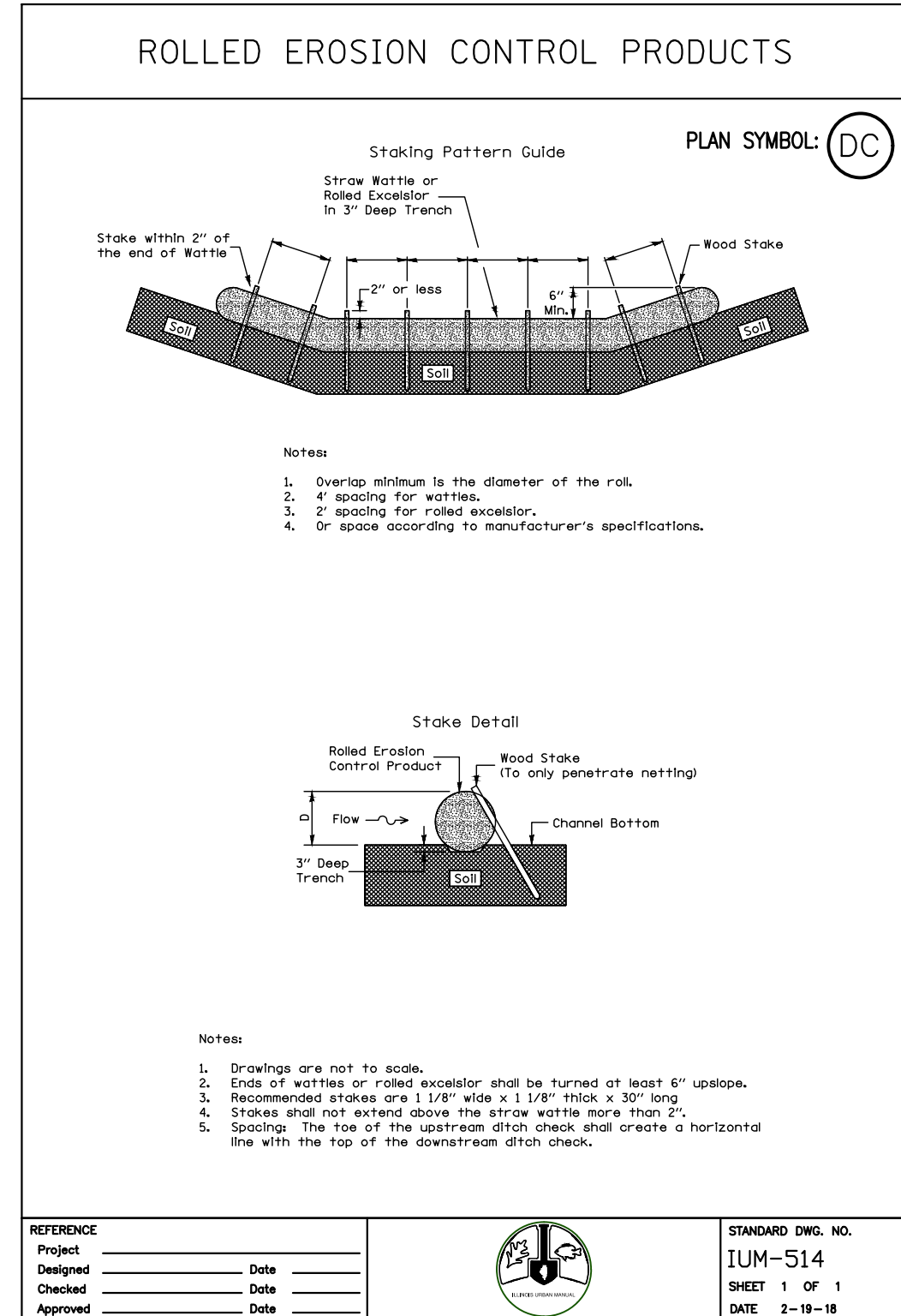
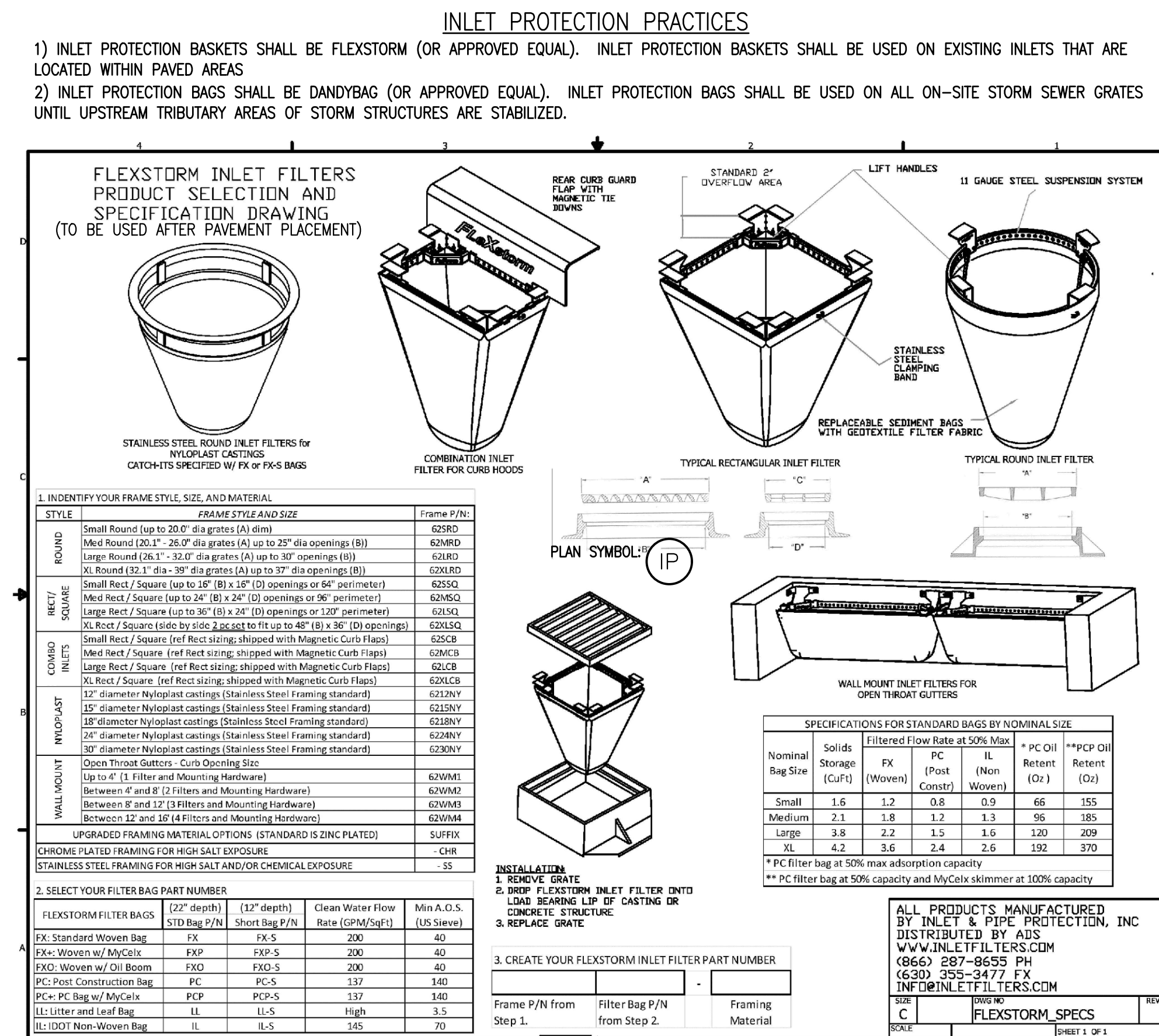
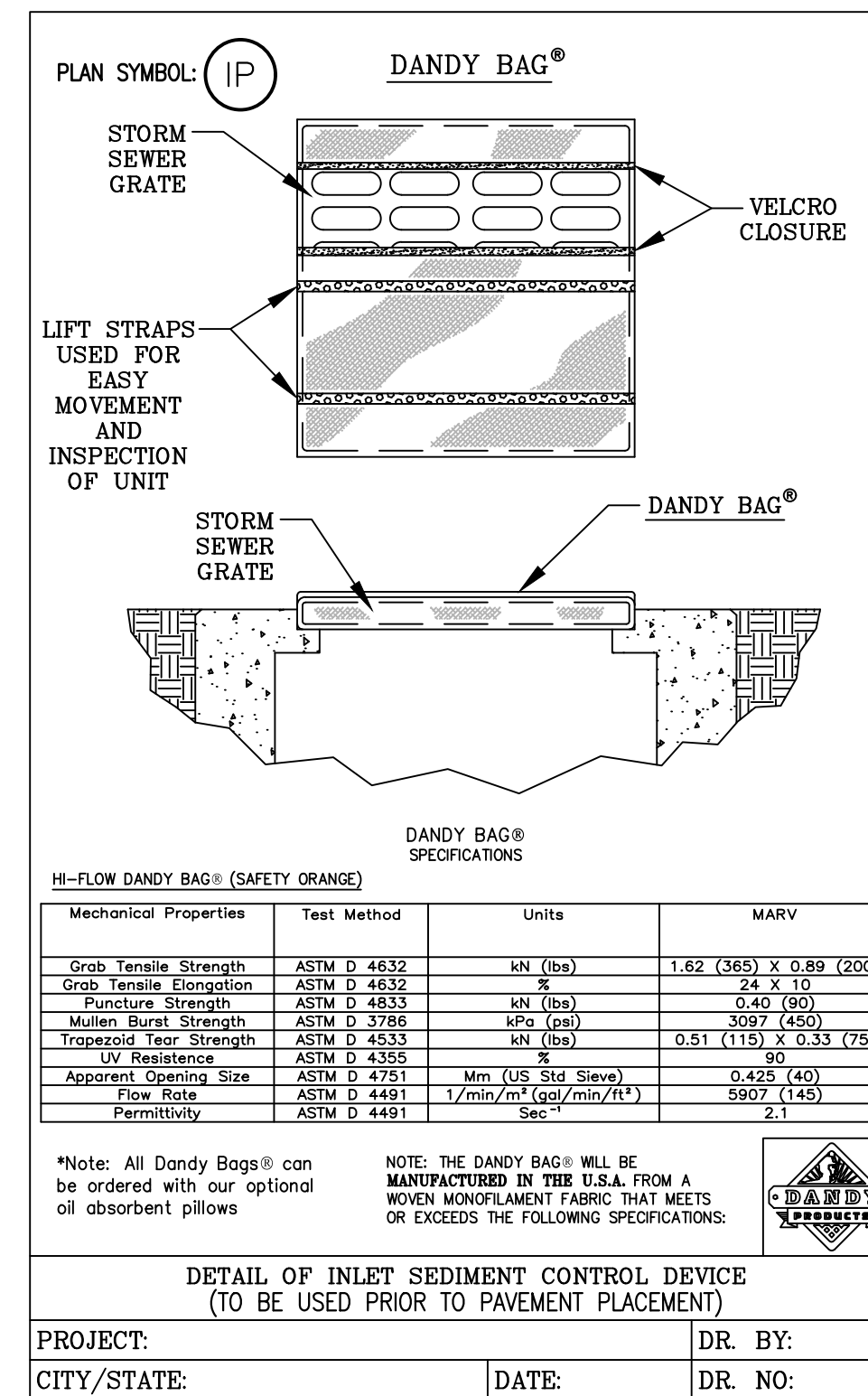
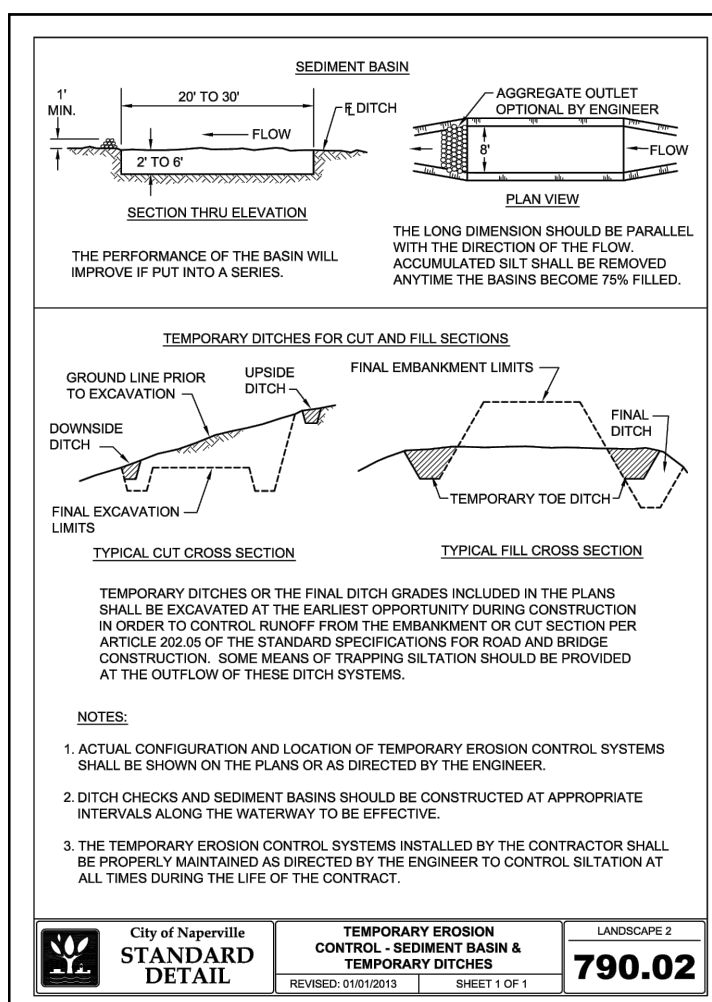
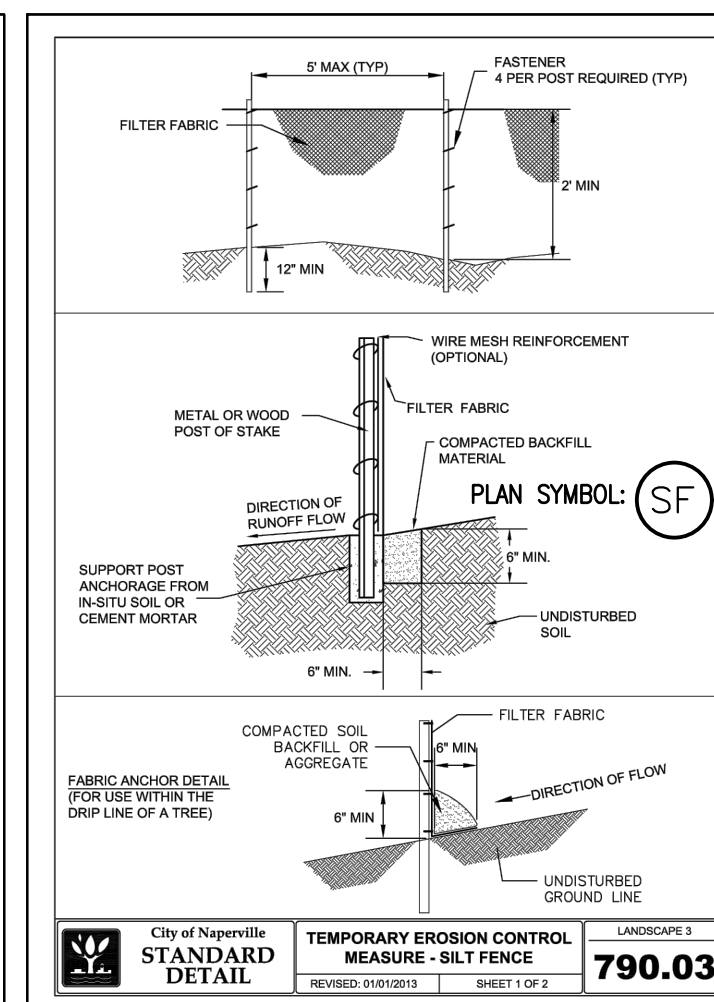
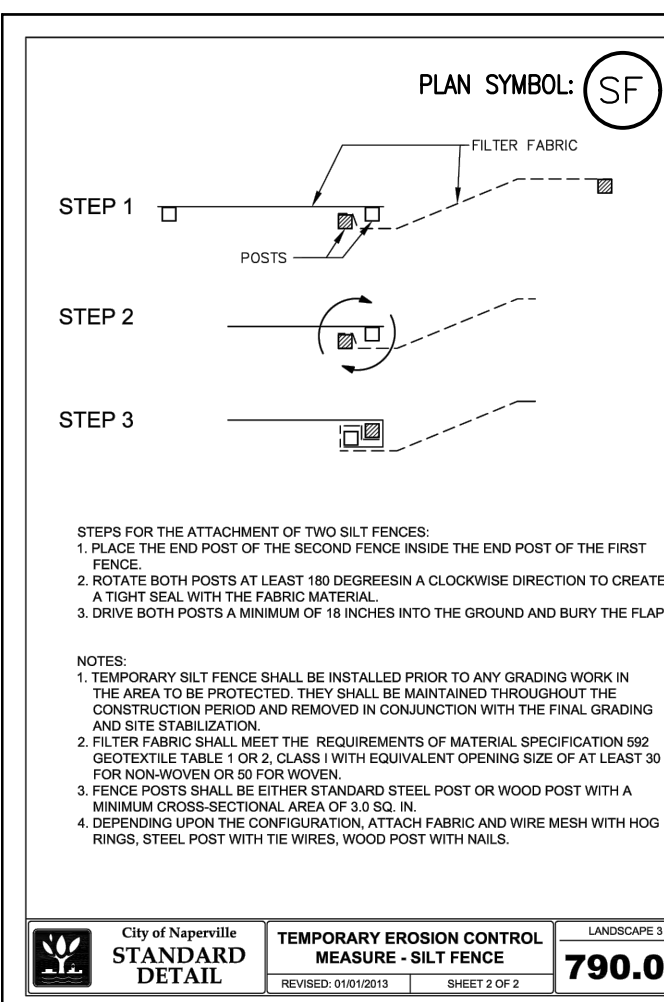
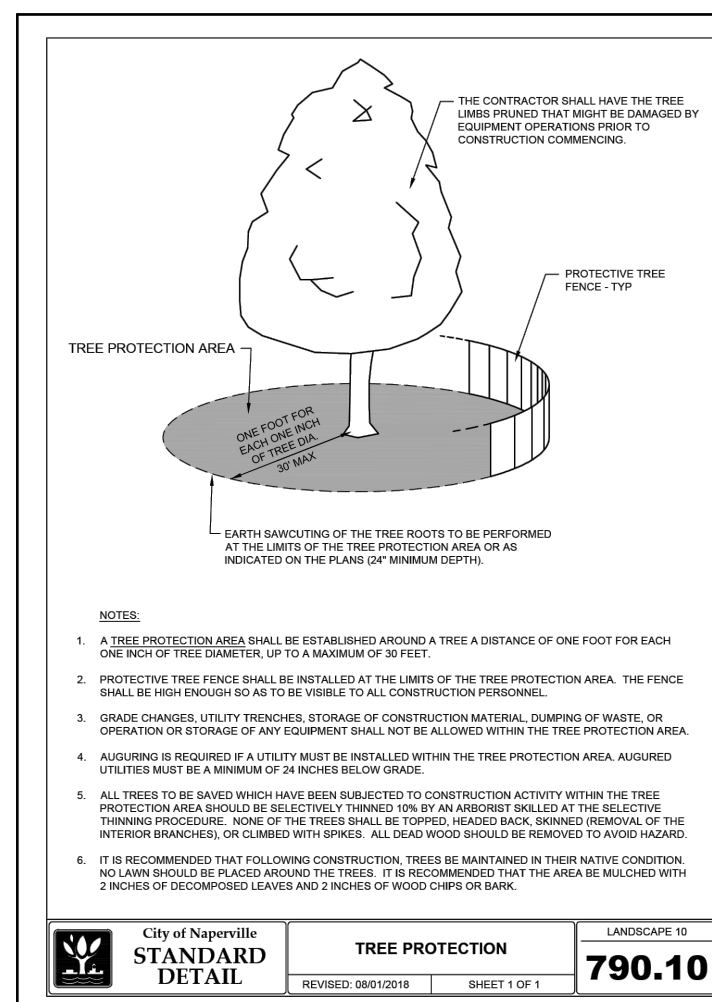
PHONE: (630) 652-4600, FAX: (630) 652-4601

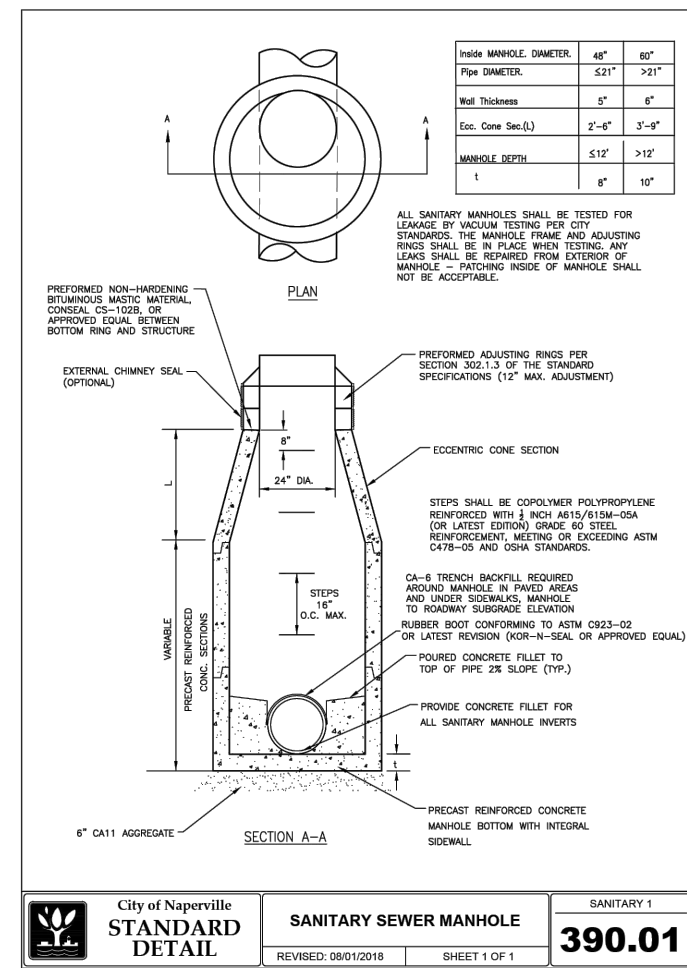
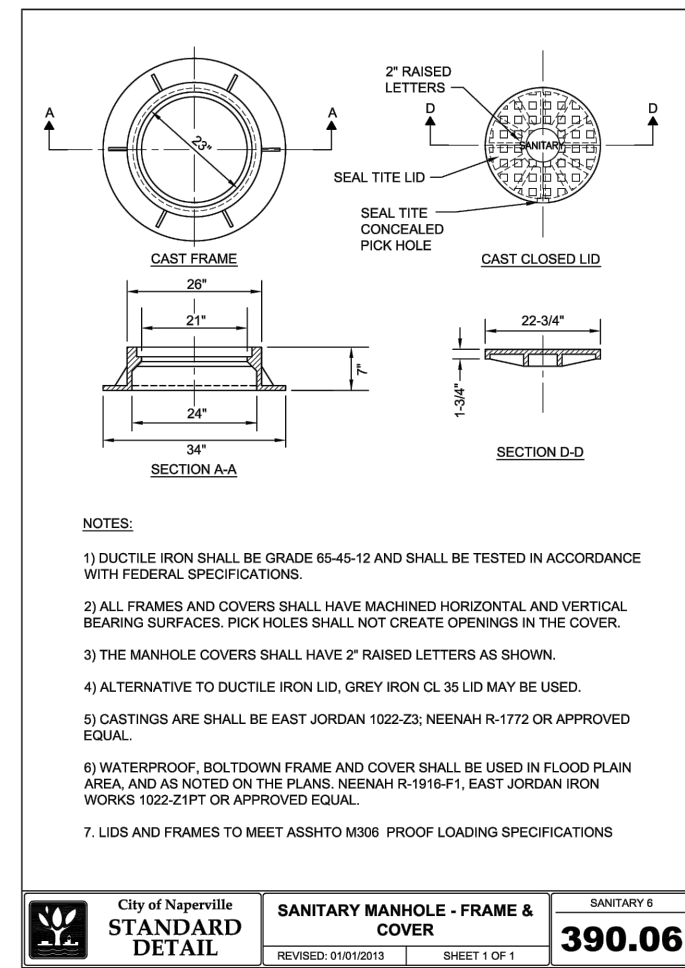
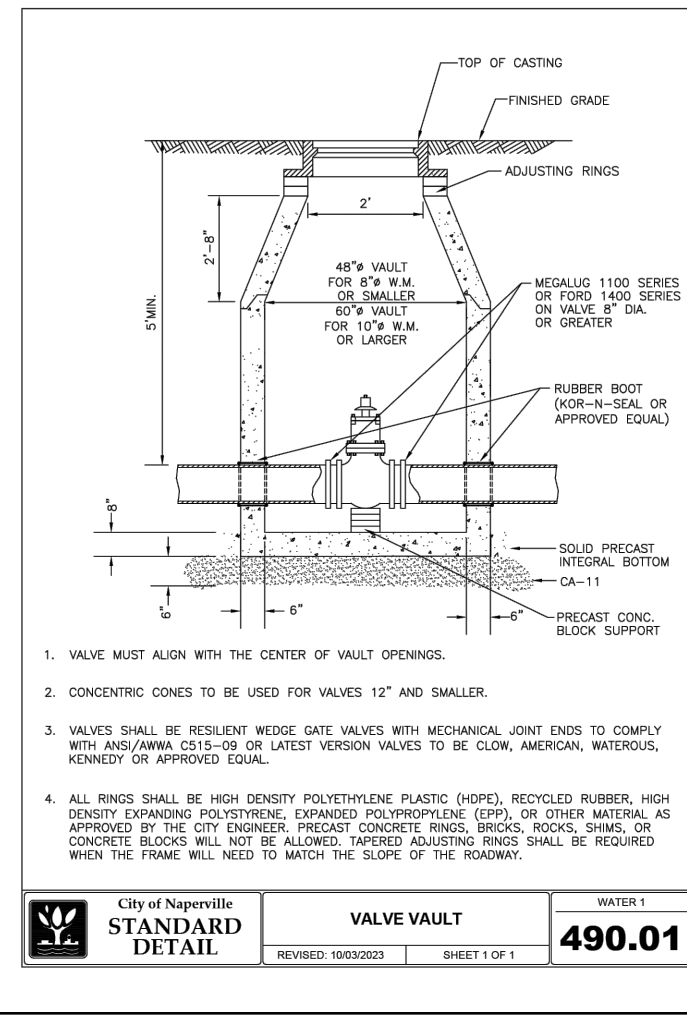
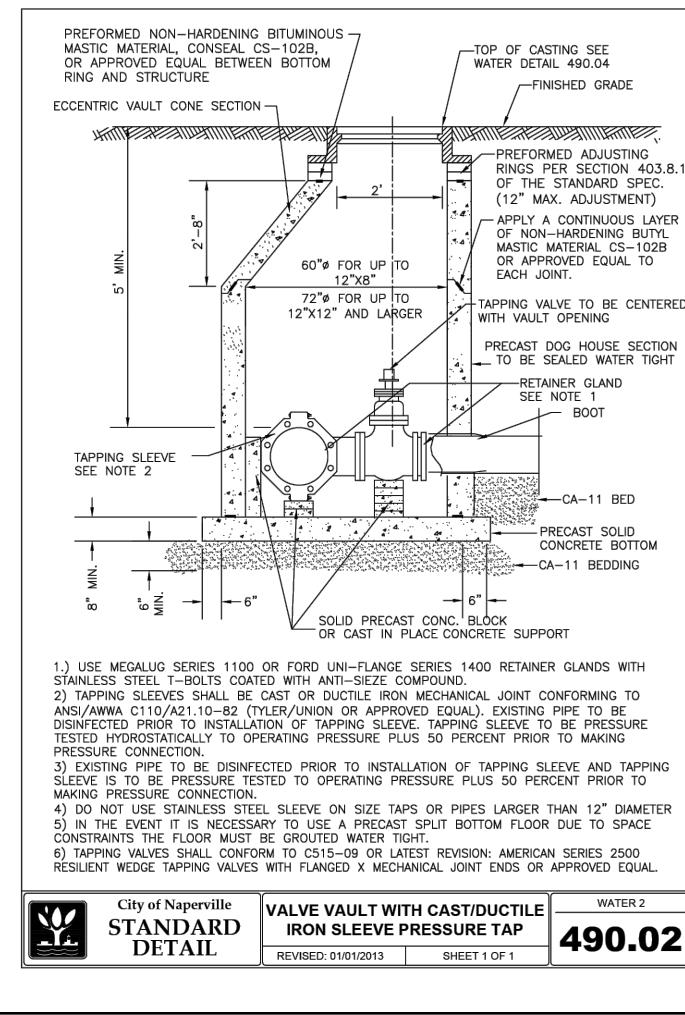
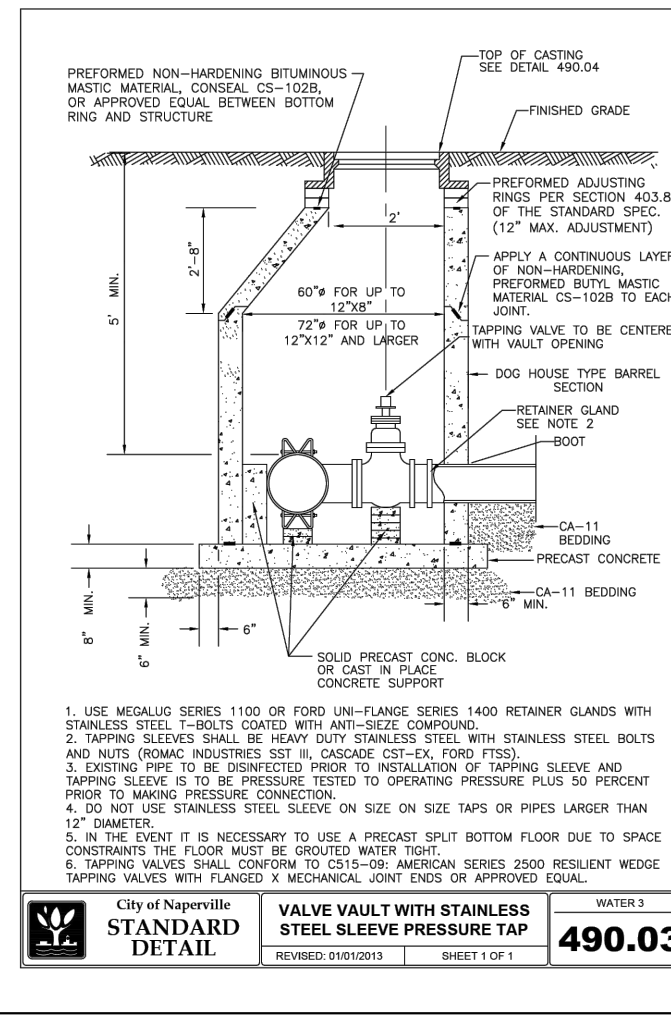
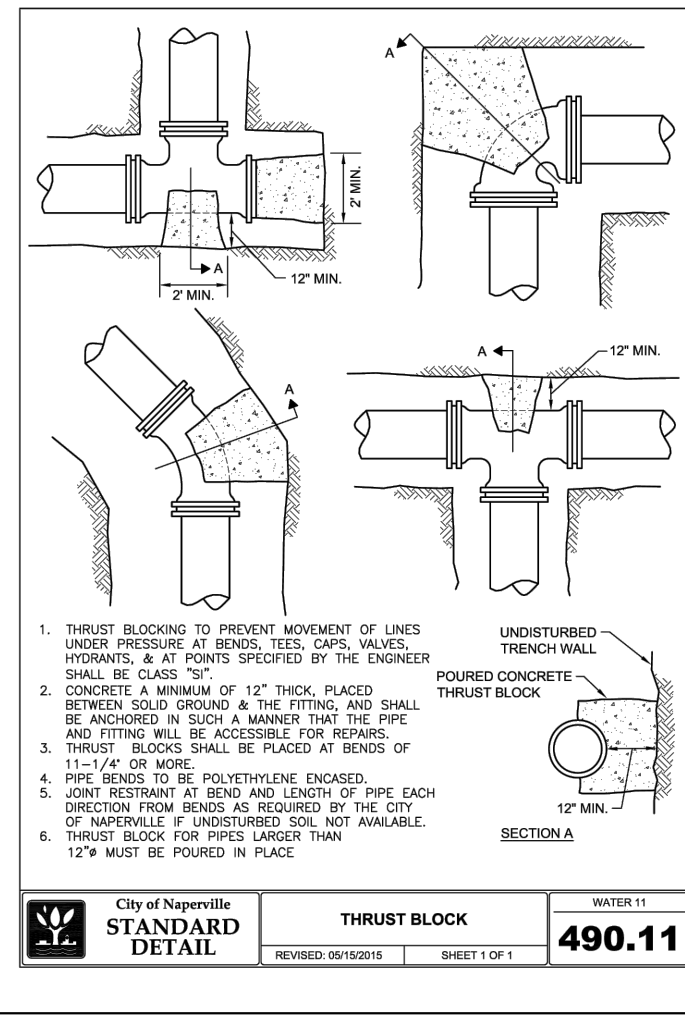
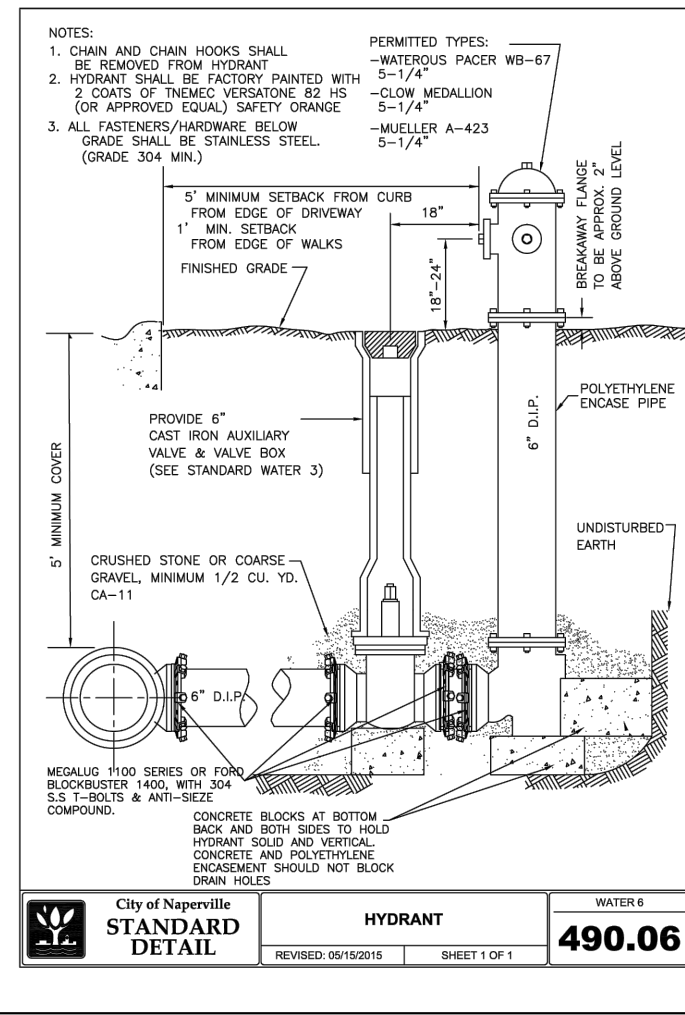
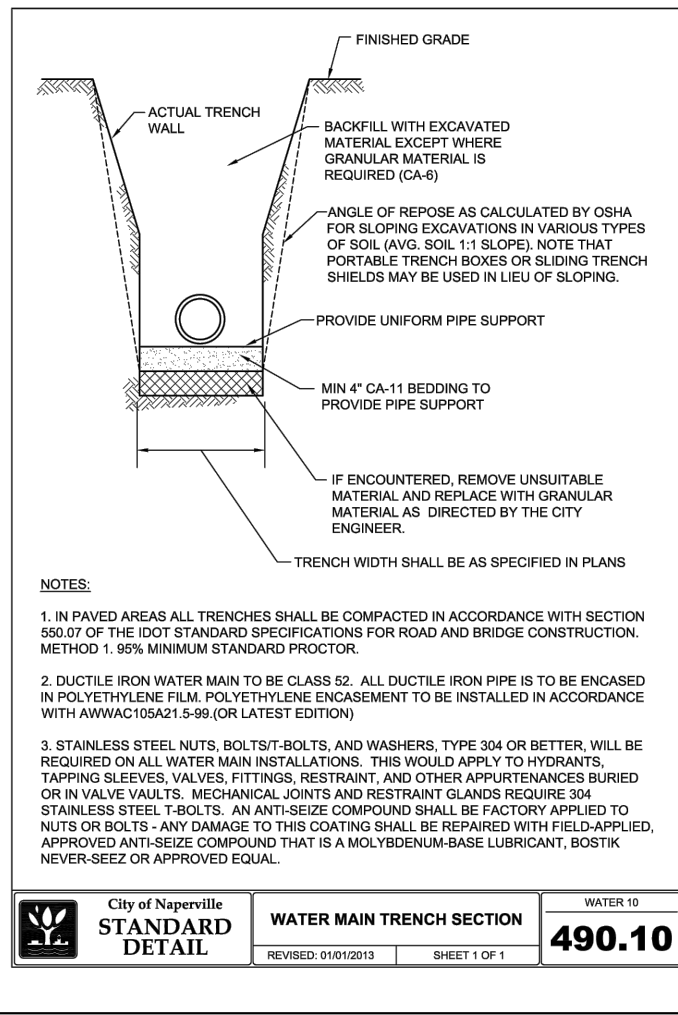
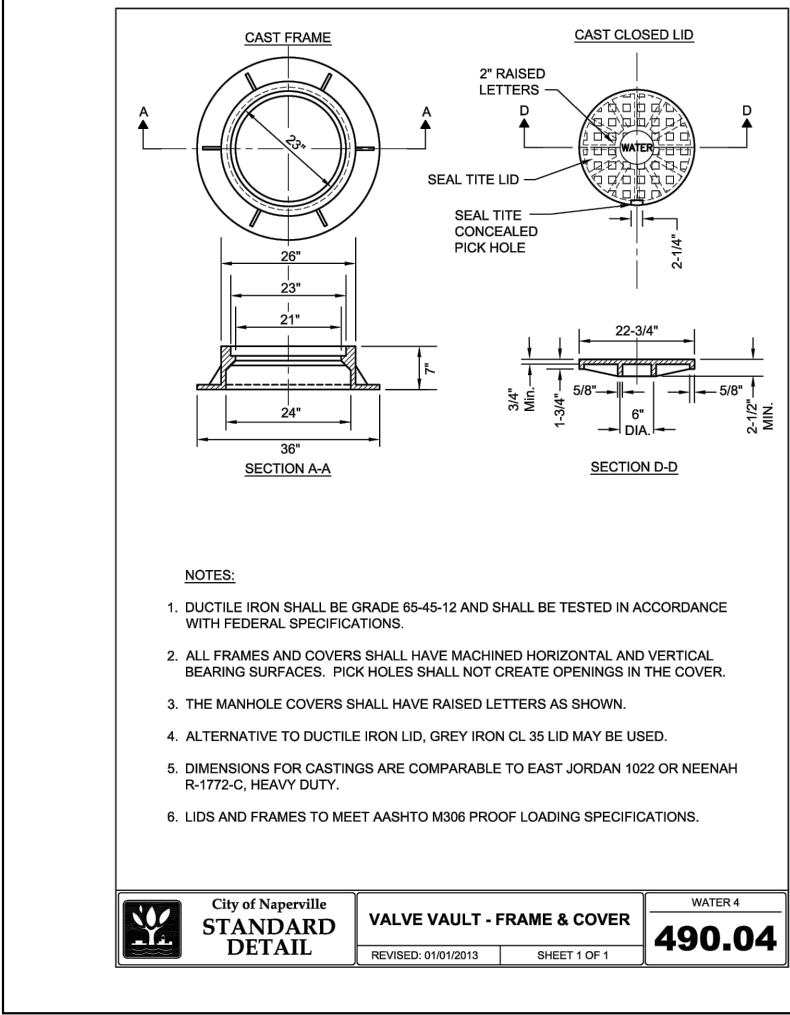
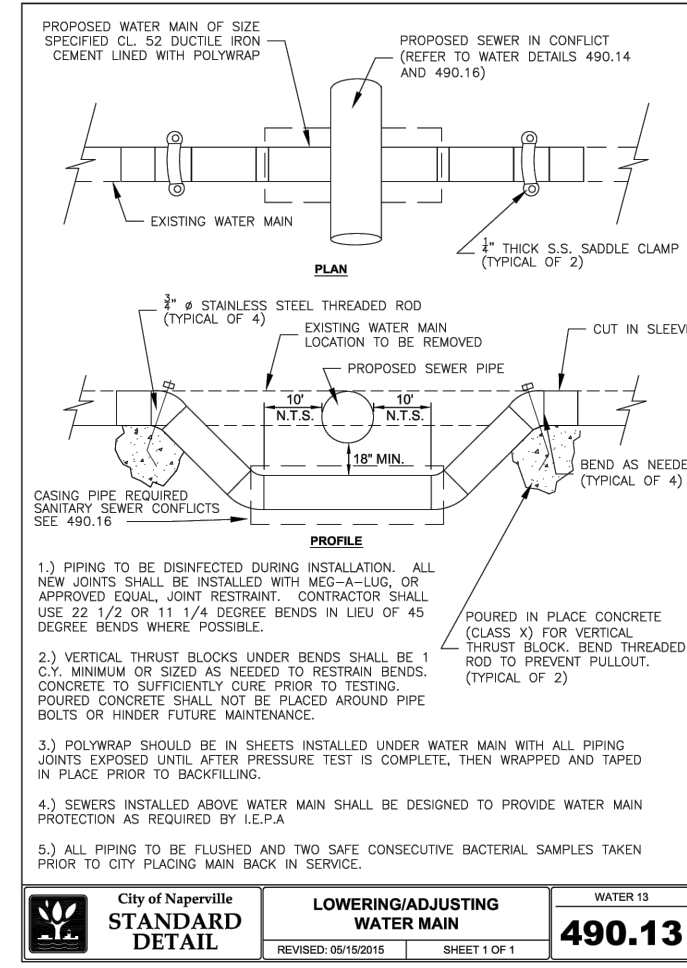
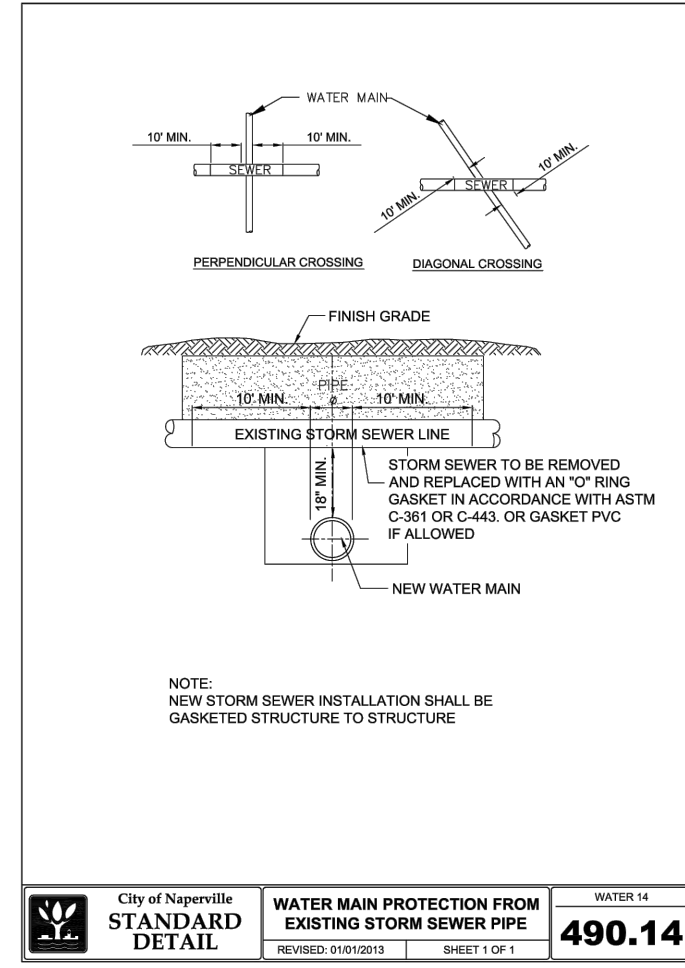
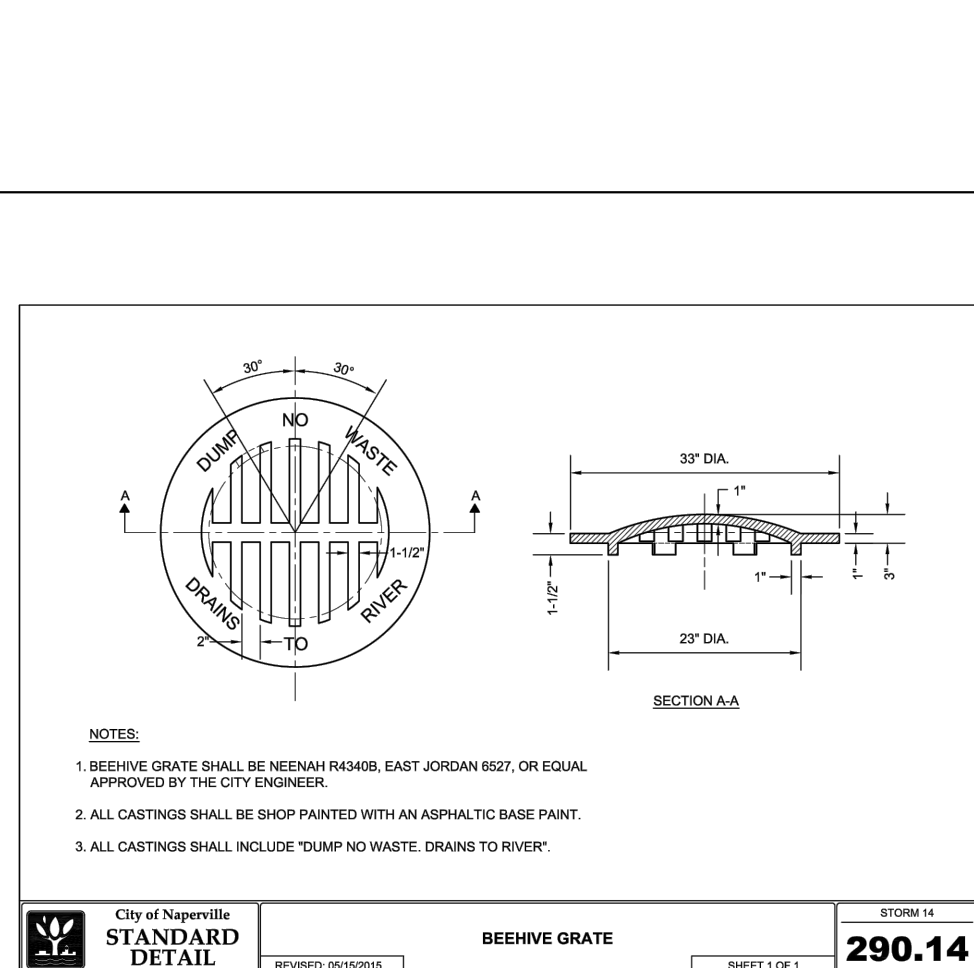
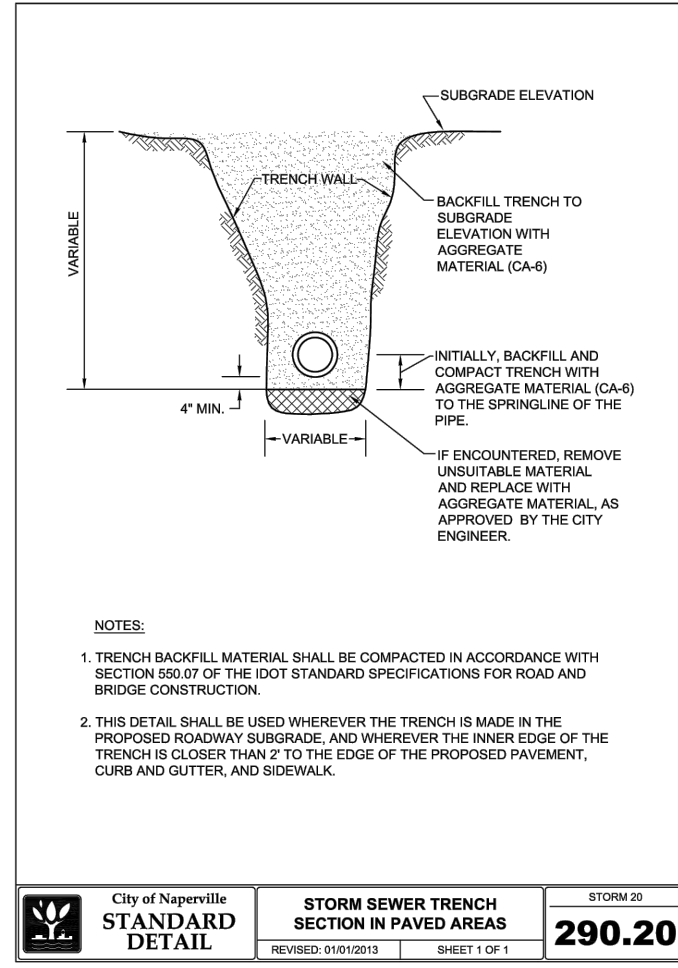
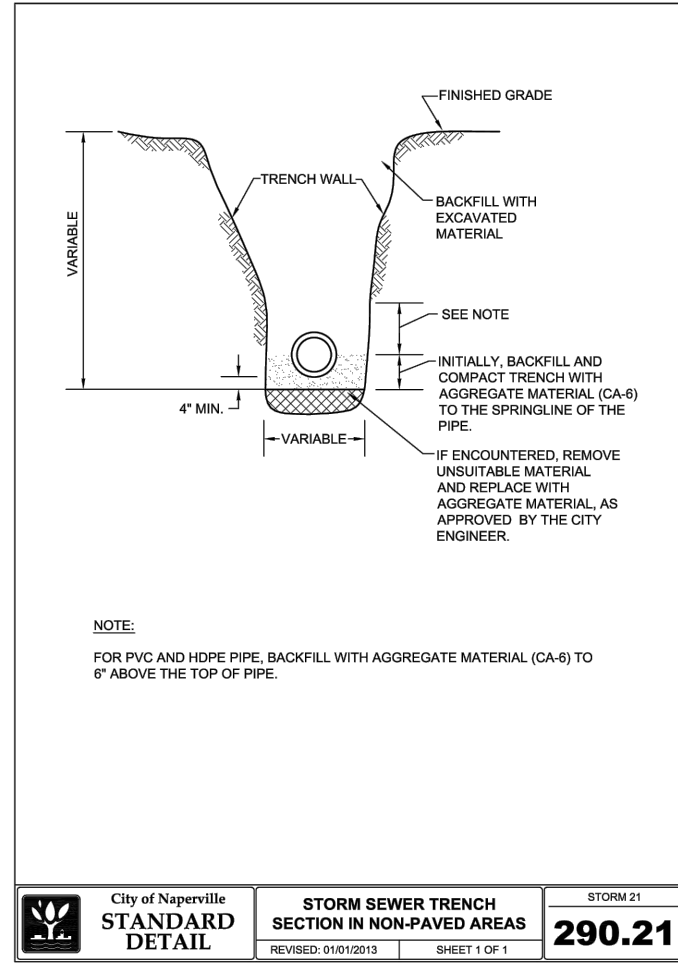
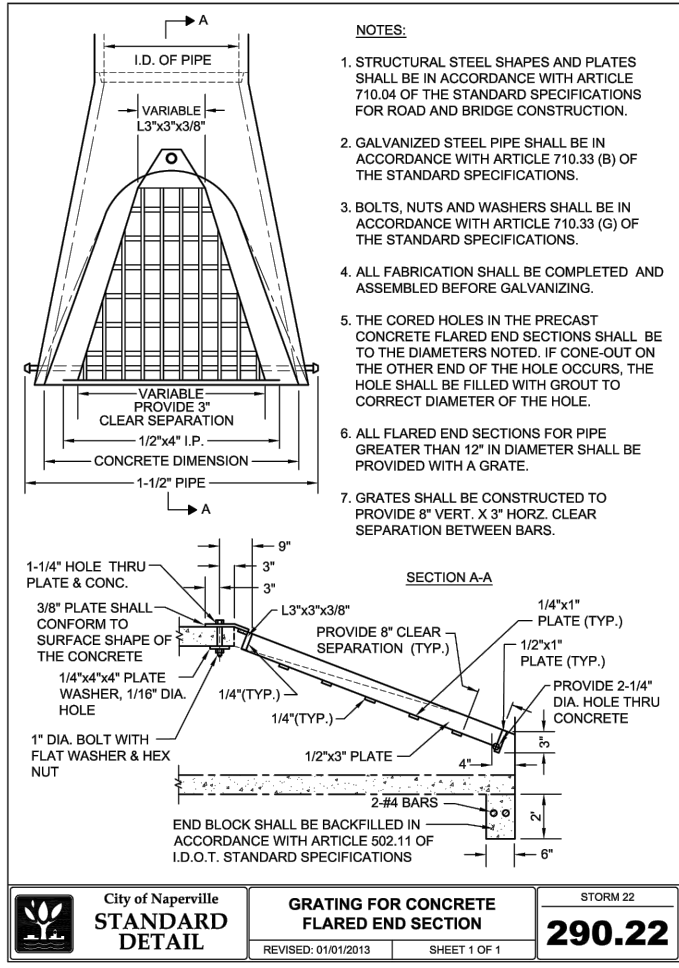
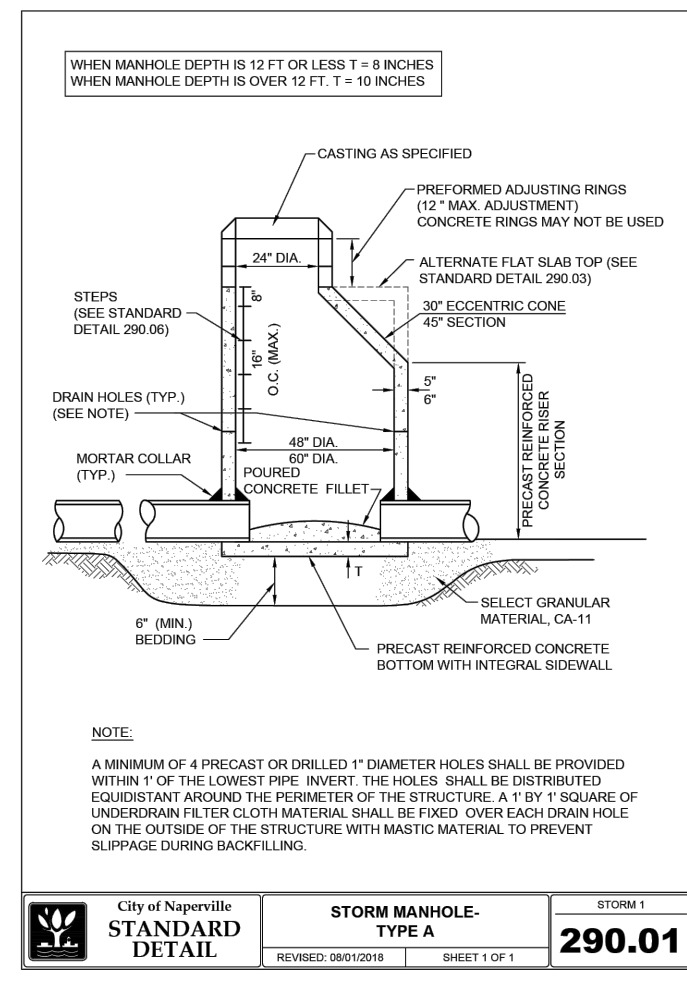
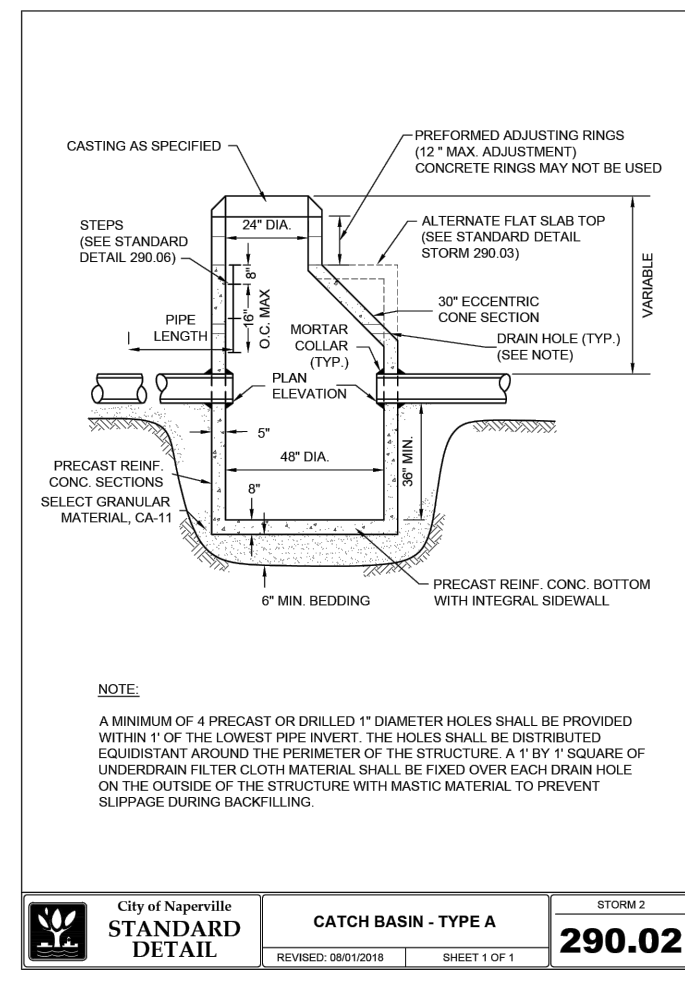
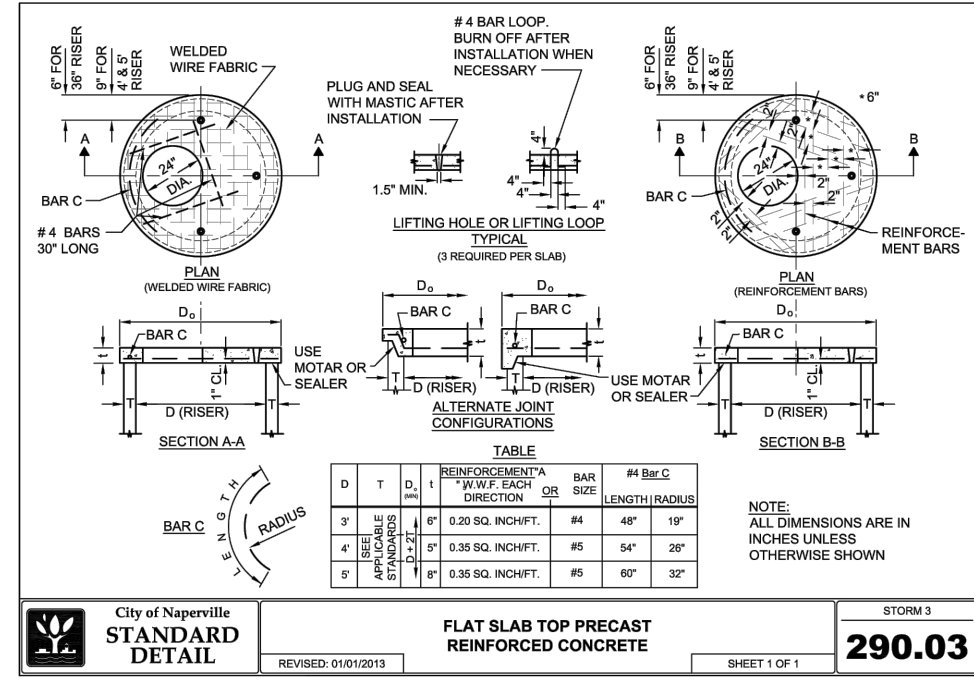
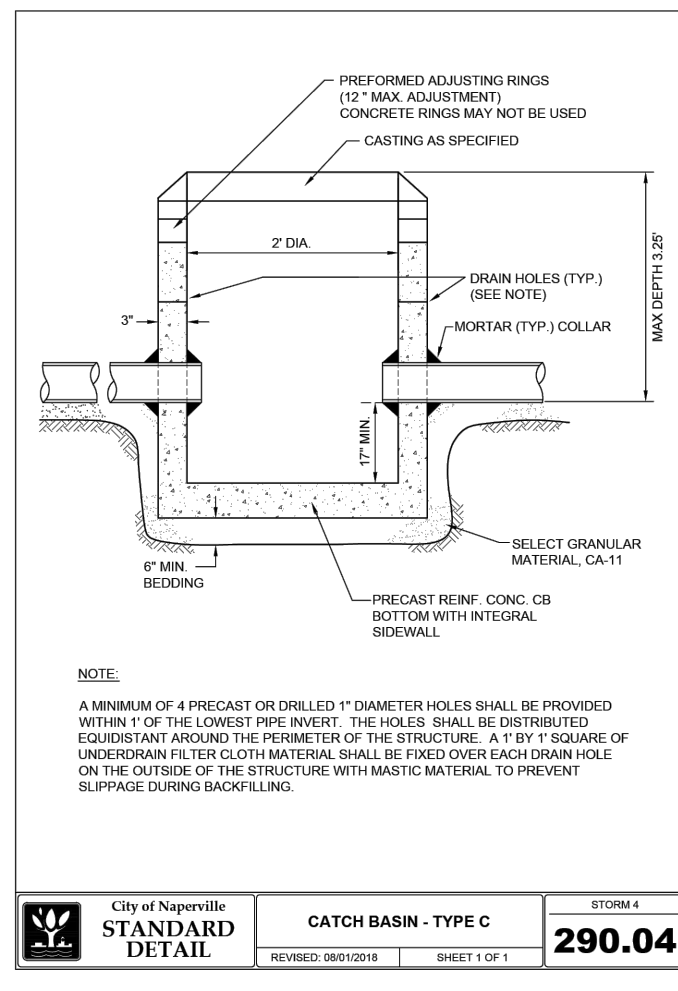
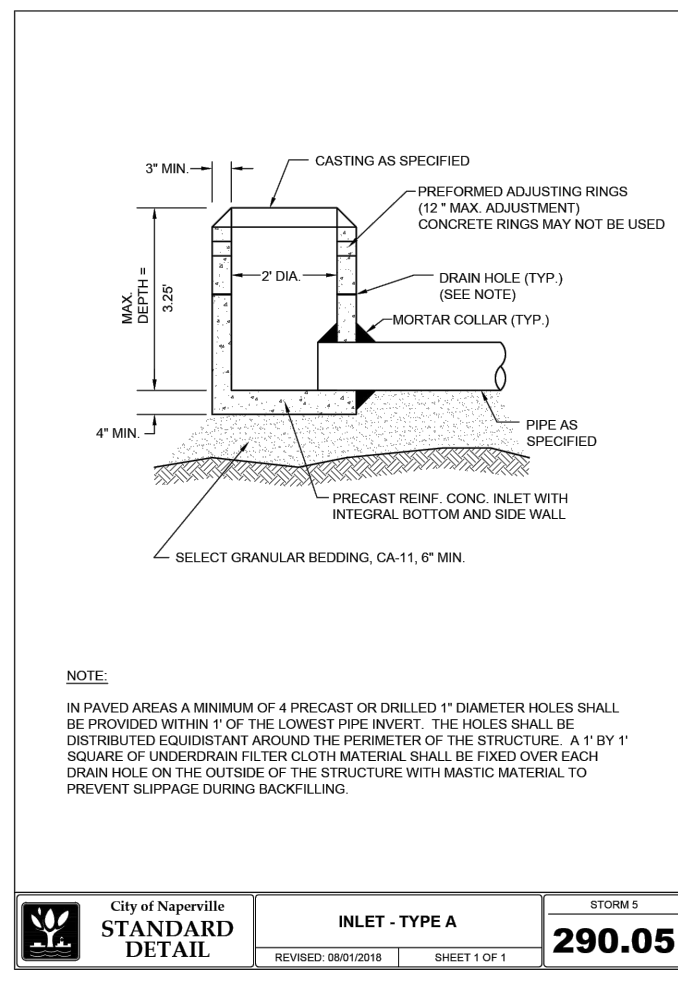
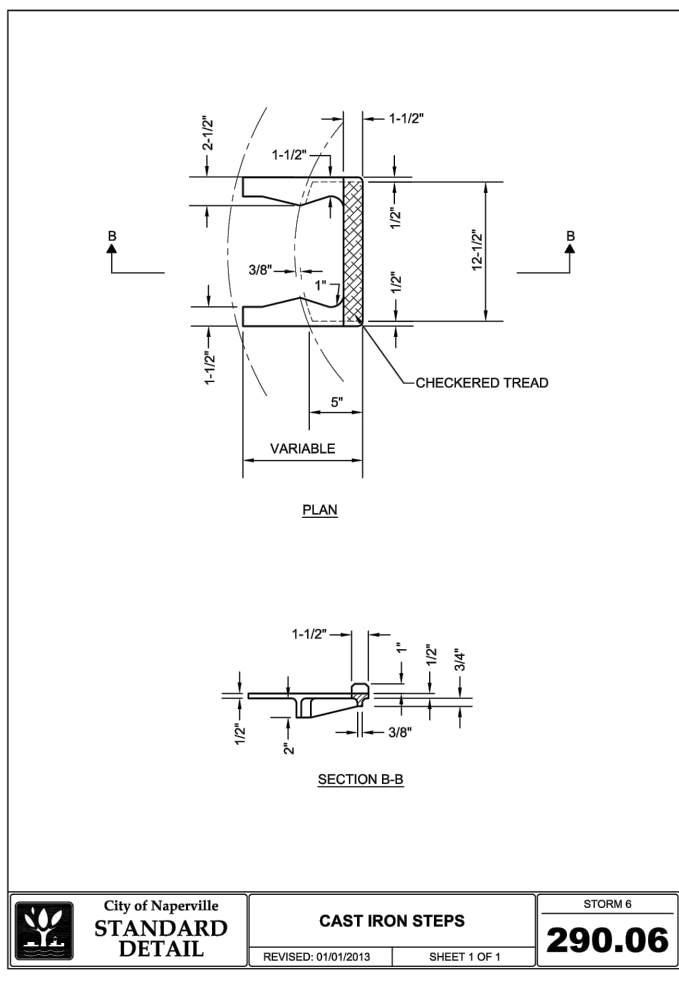
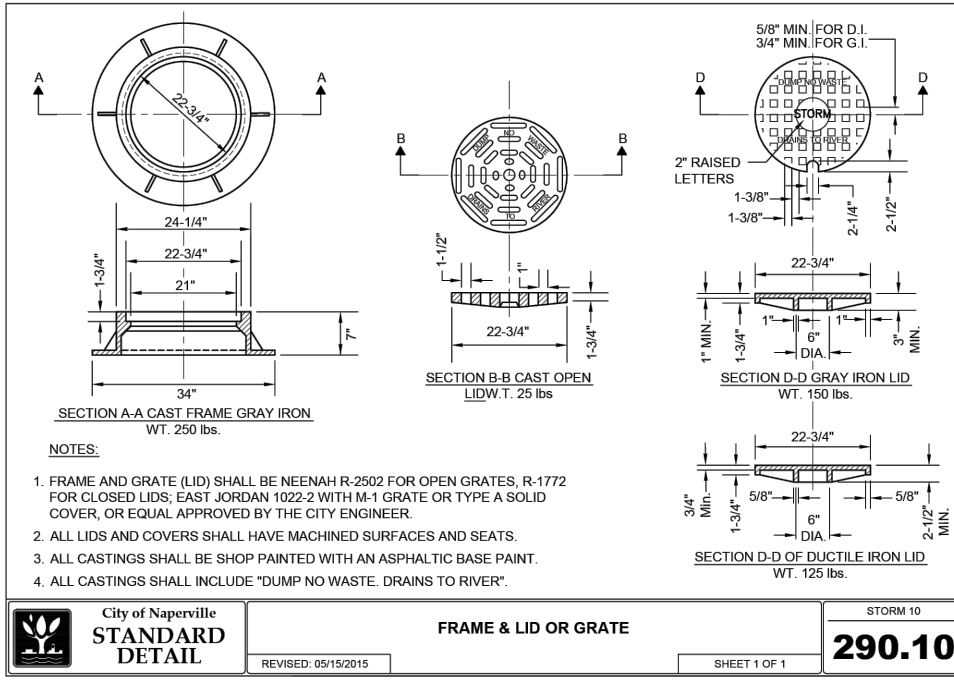
www.jacobandhefner.com

H477a

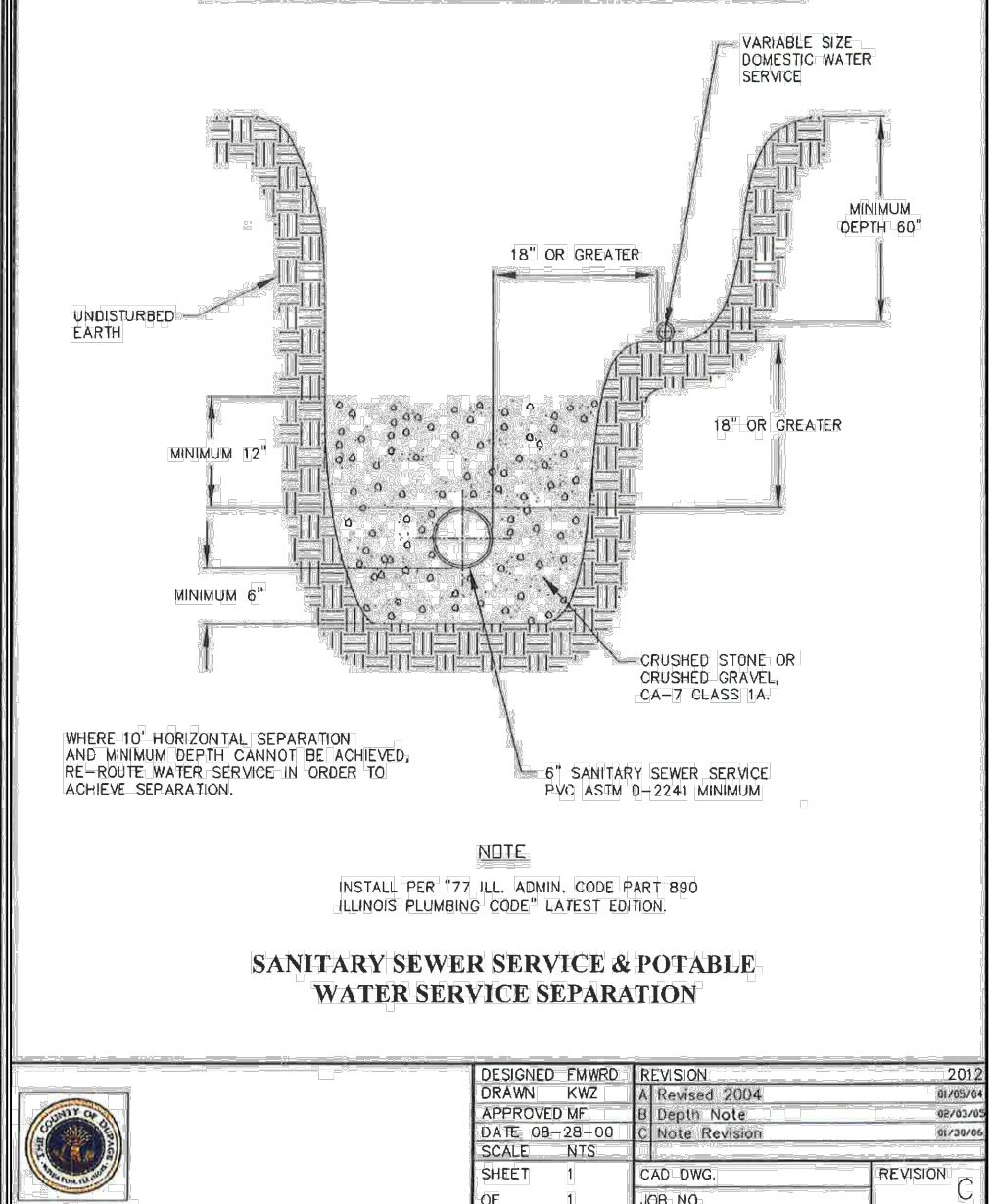
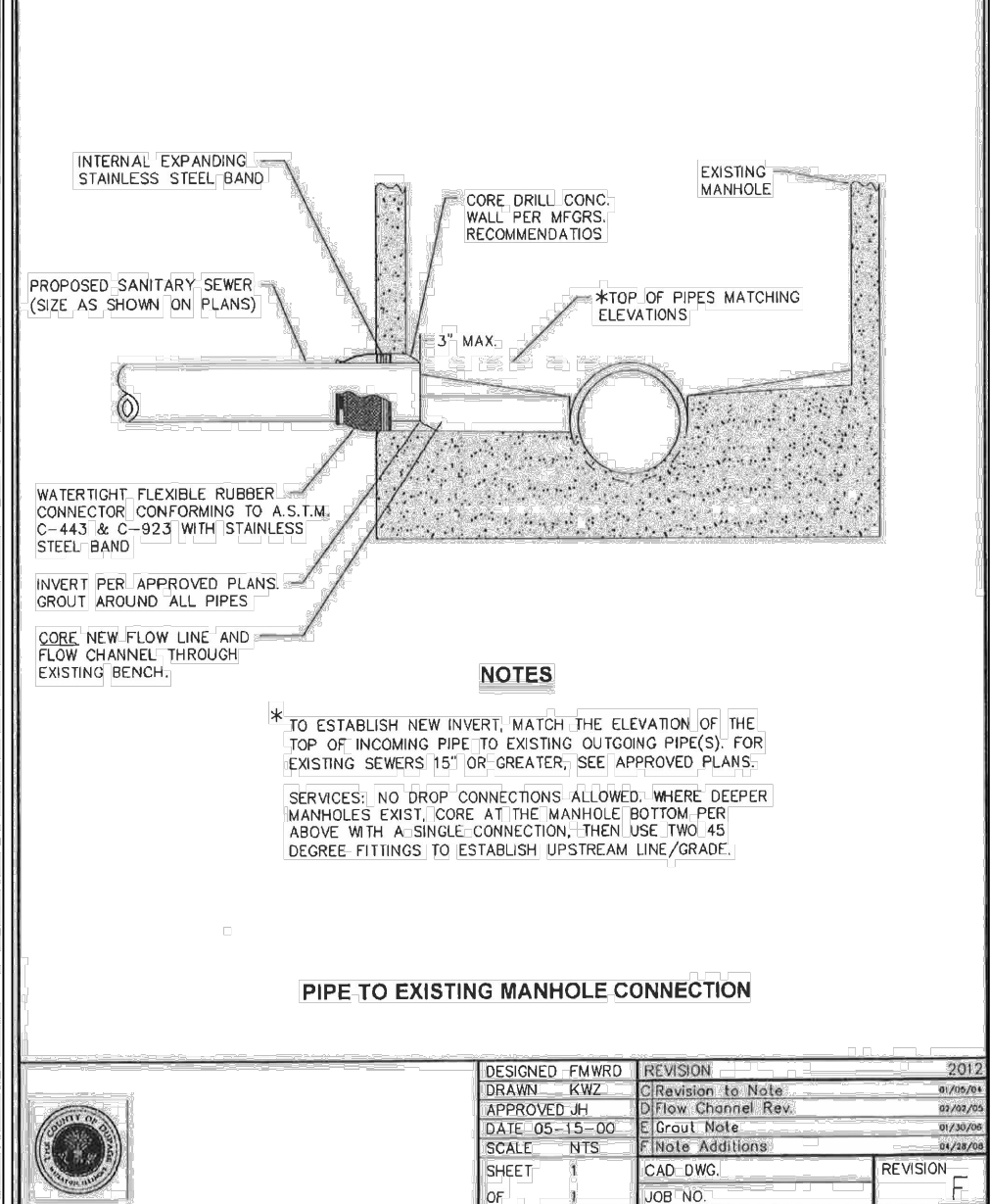
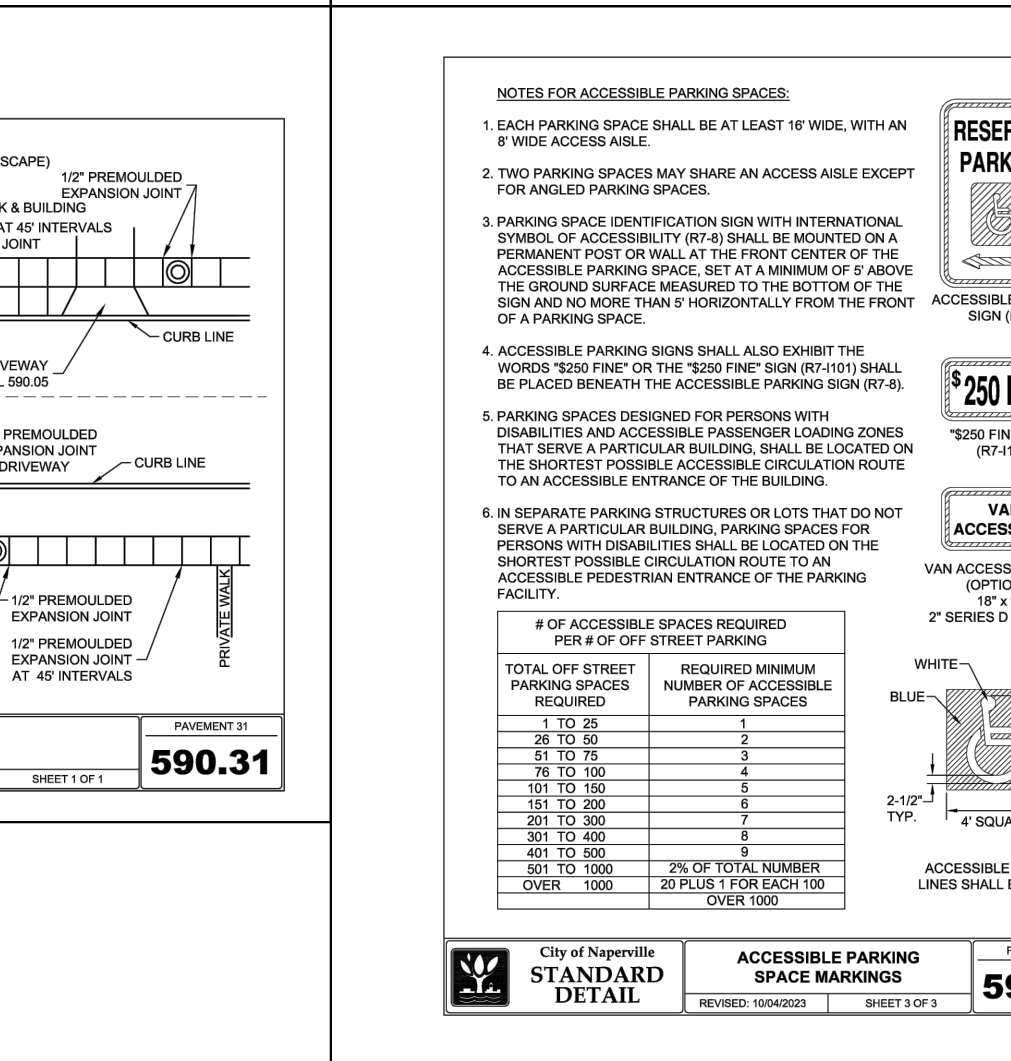
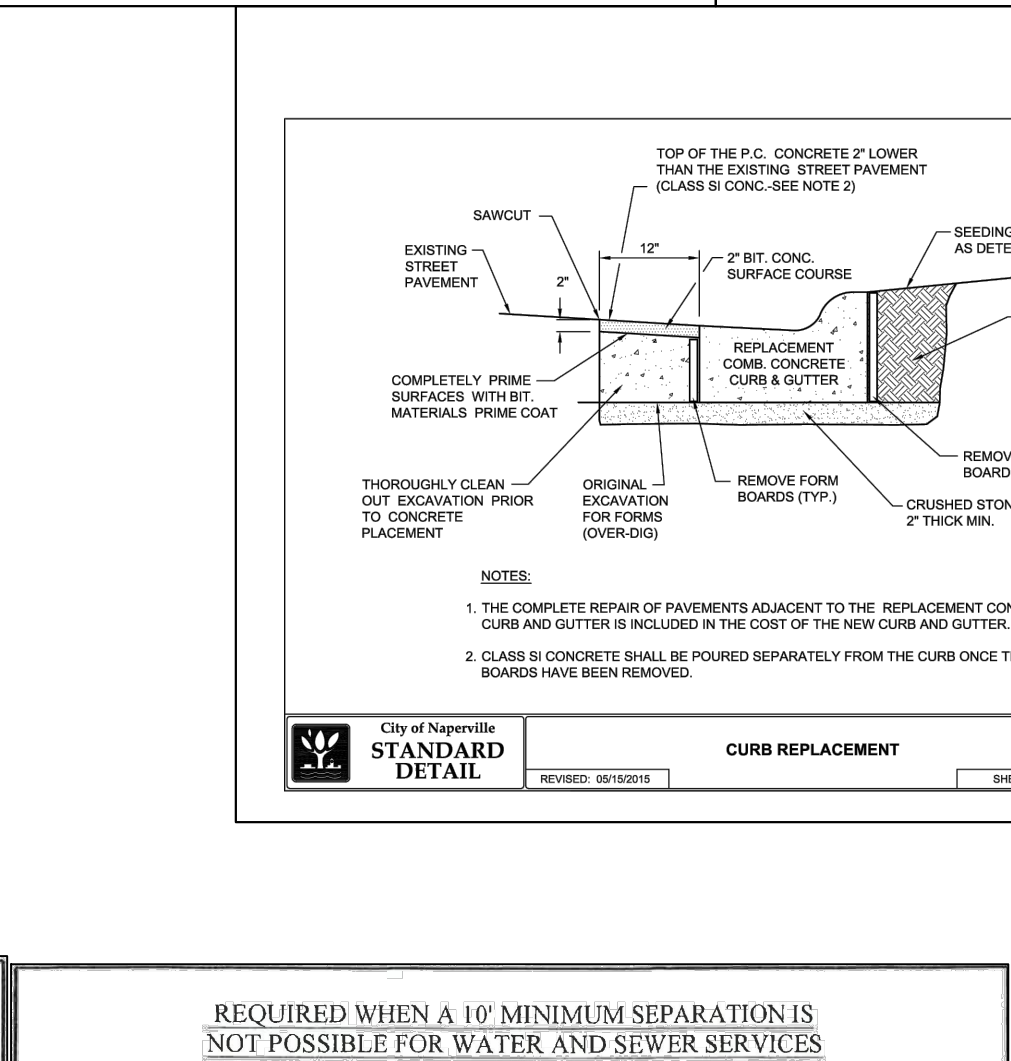
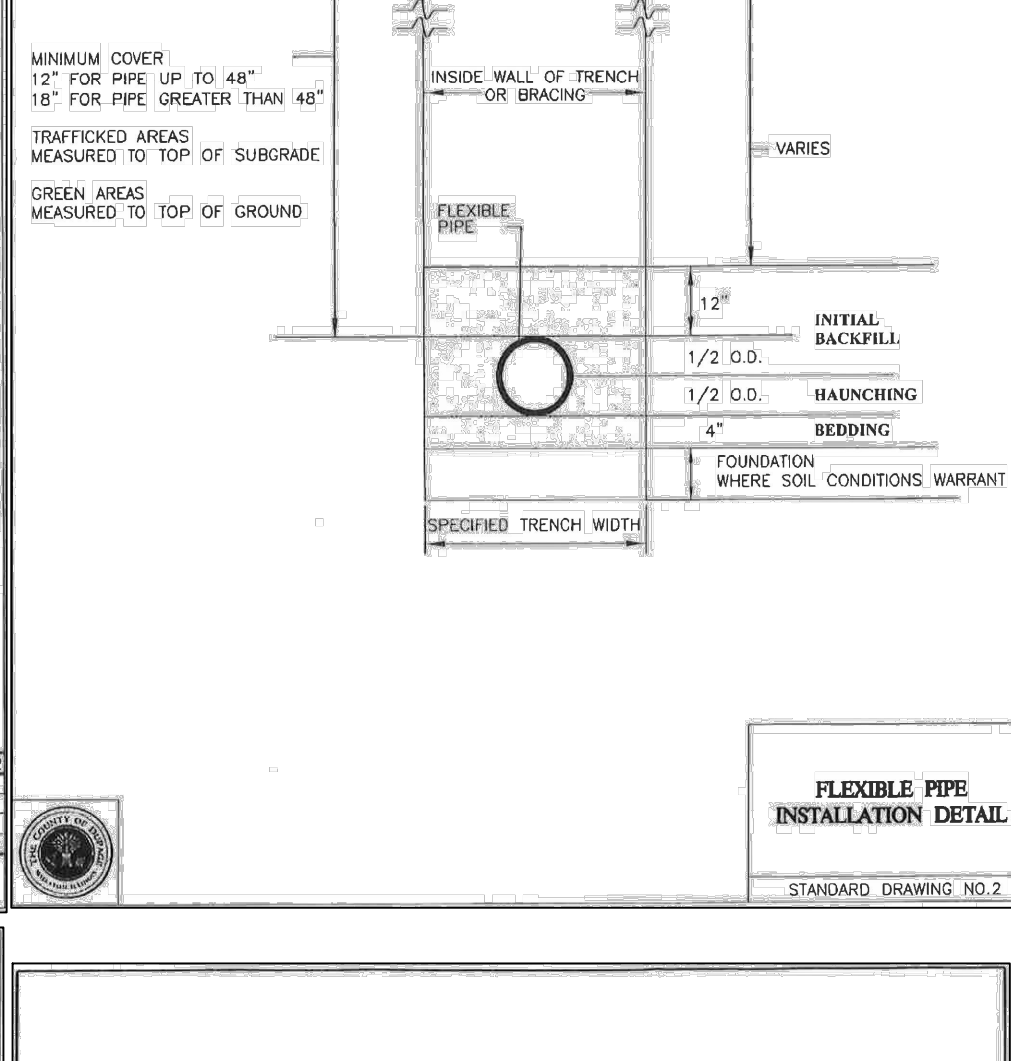
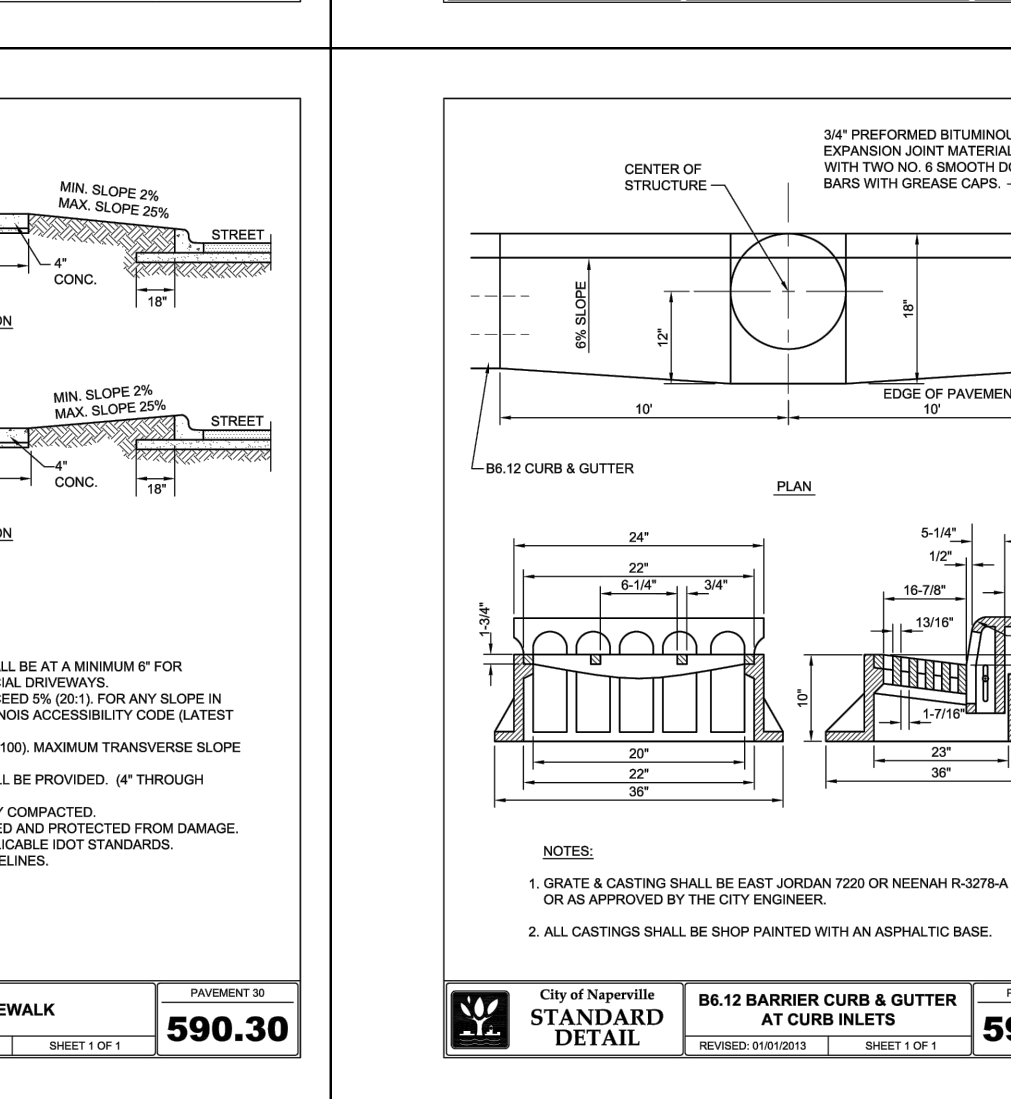
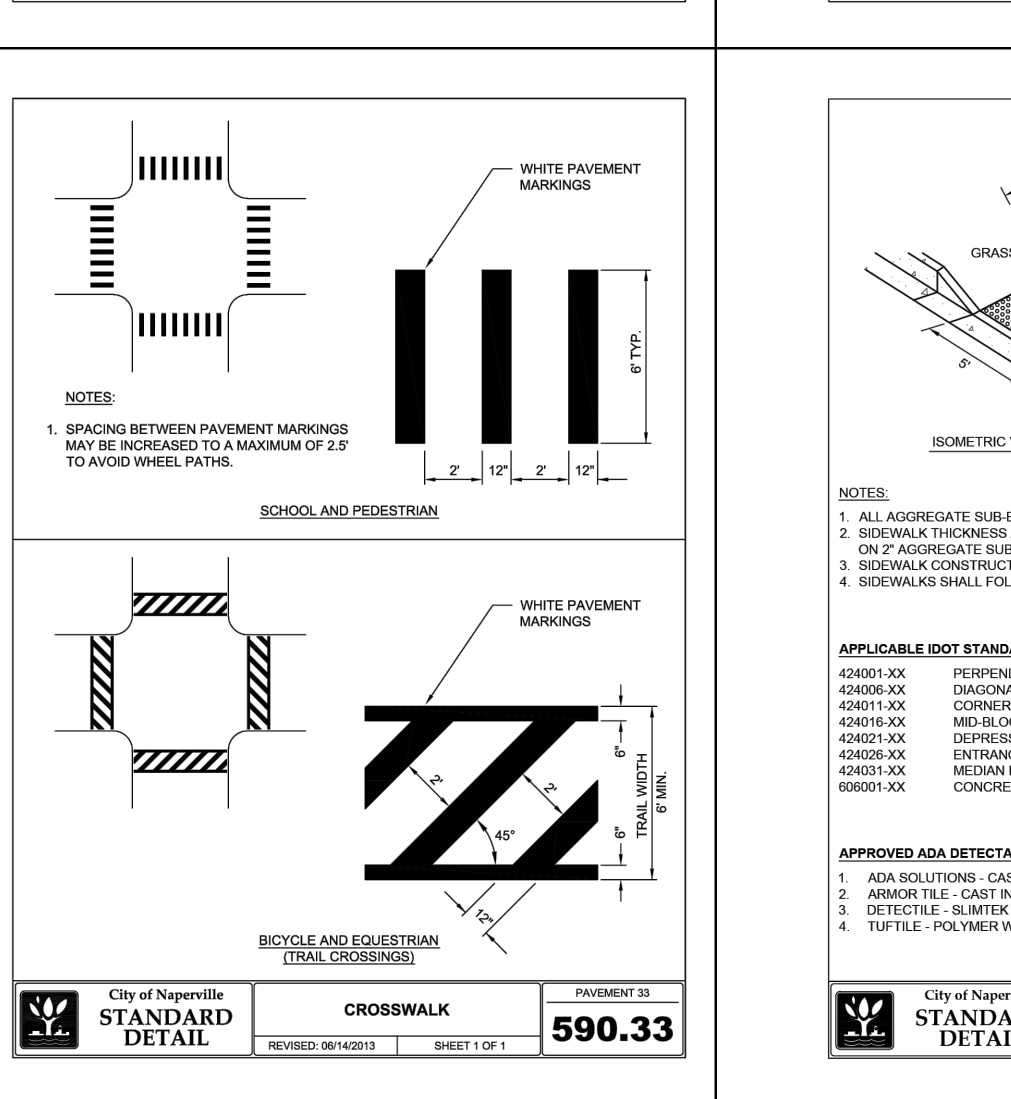
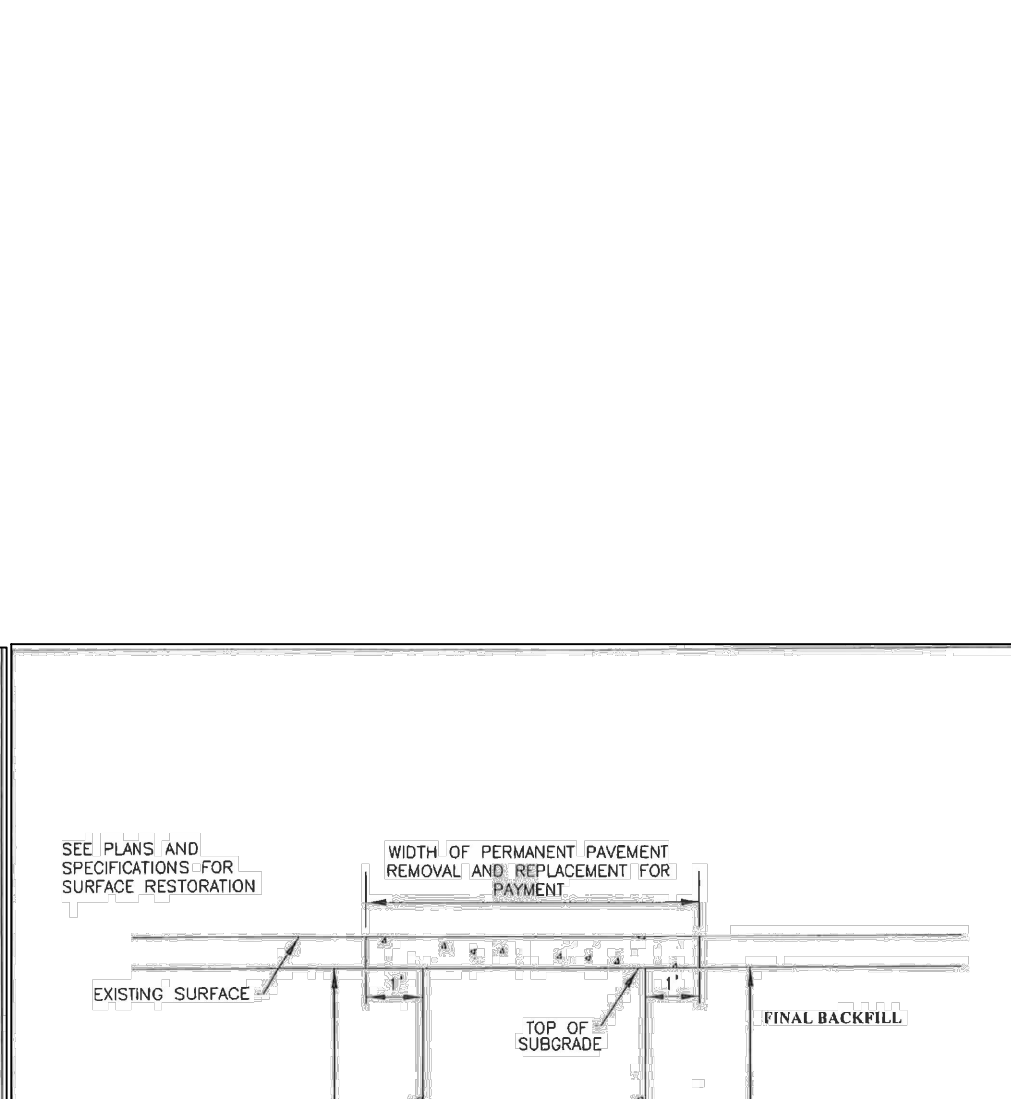
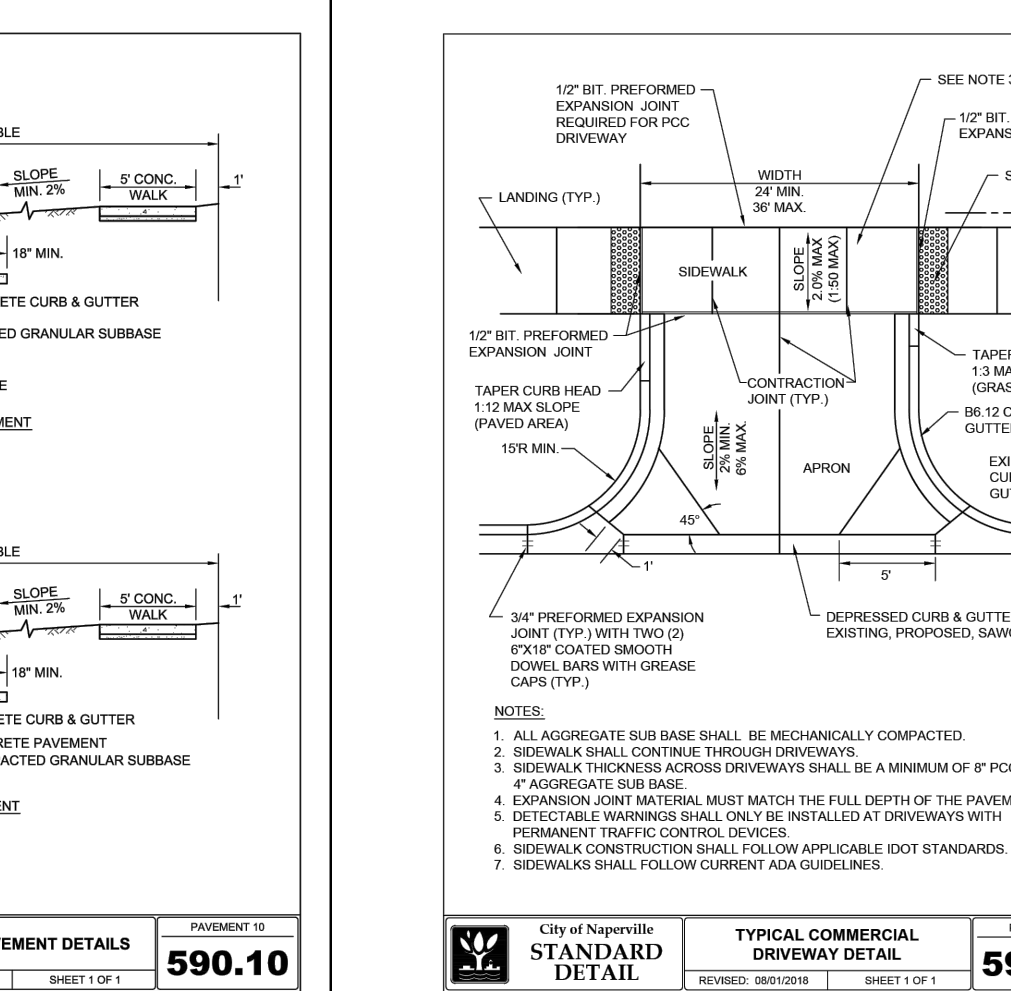
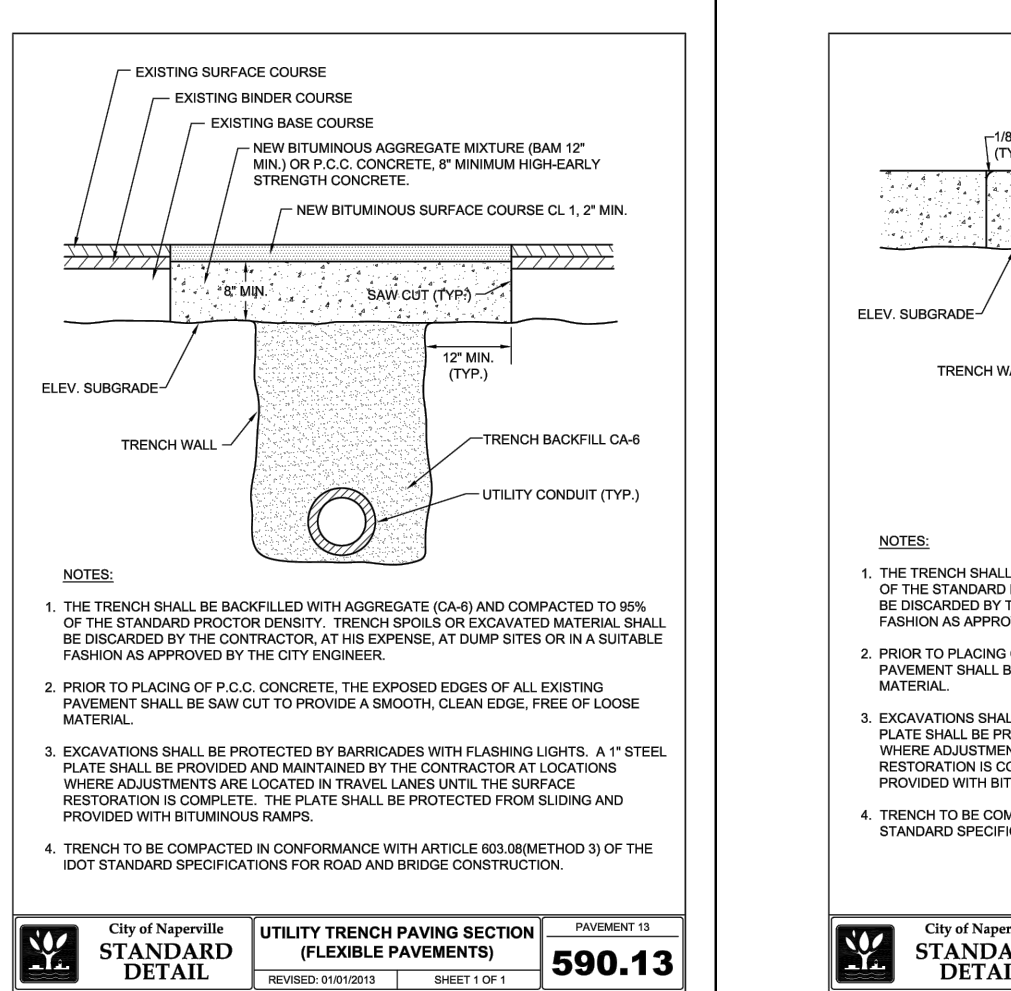
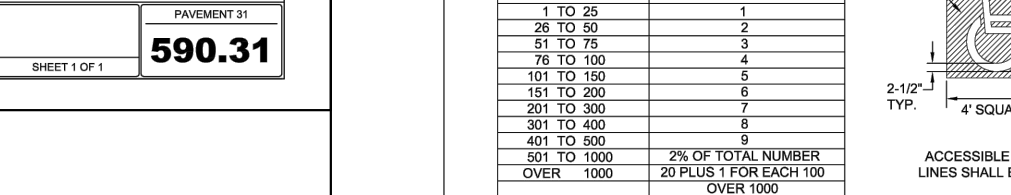
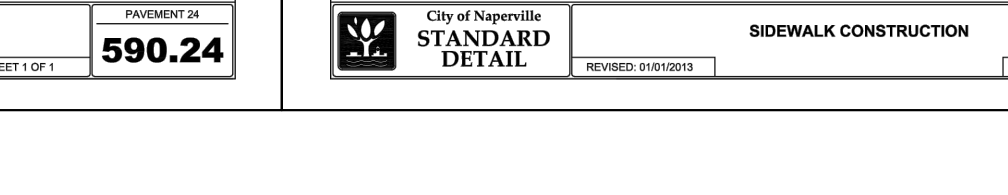
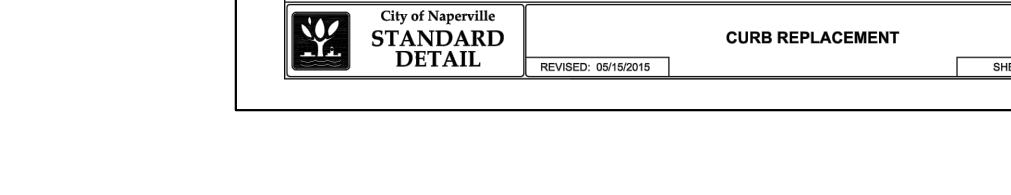
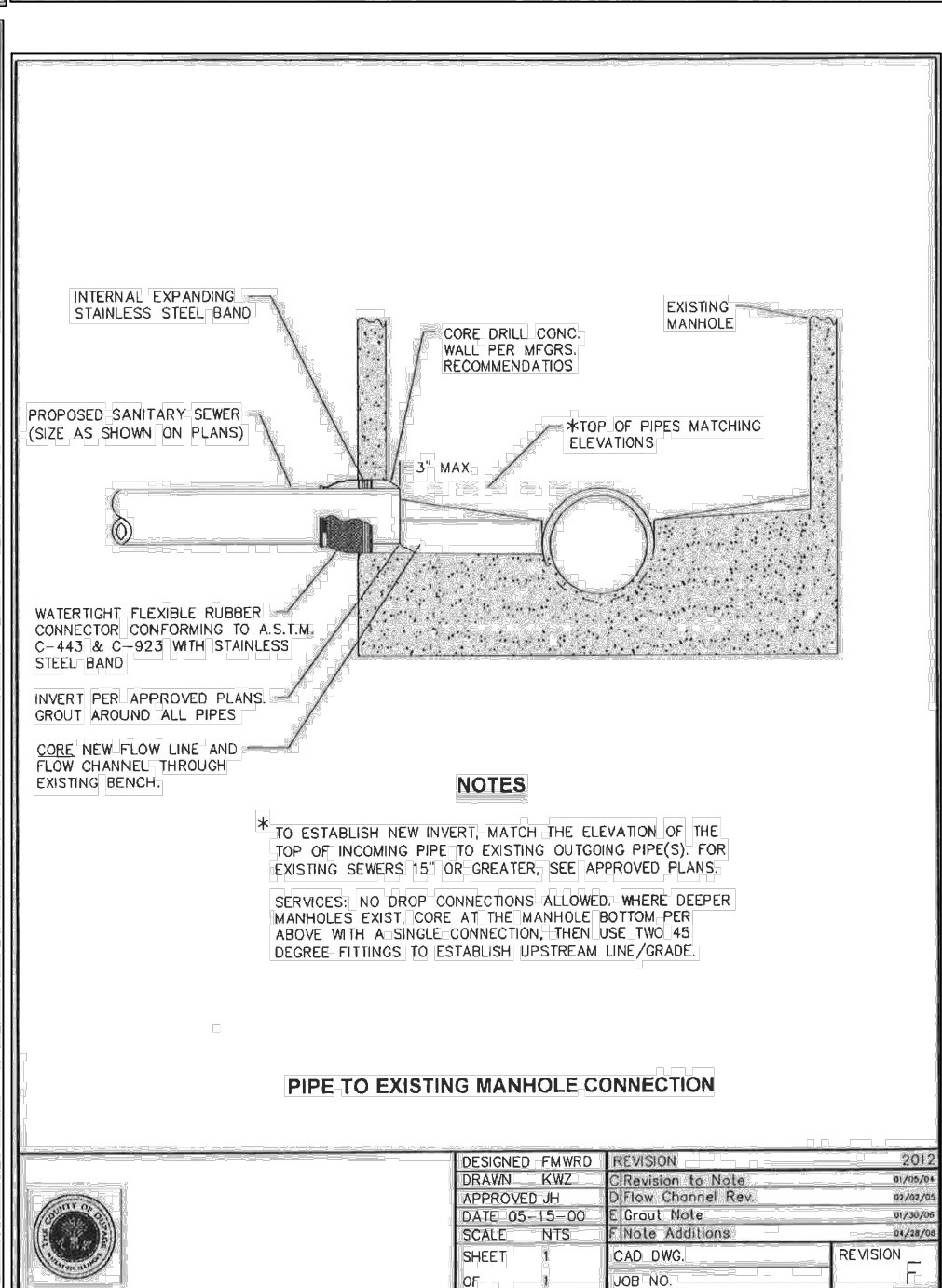
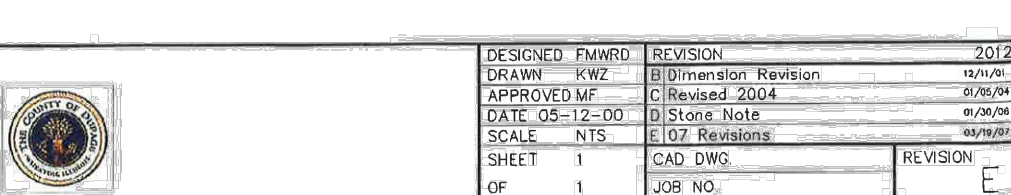
N.T.S.

C8.0

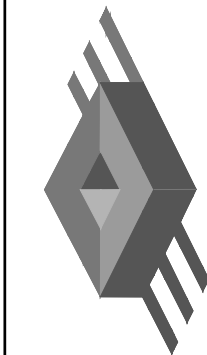
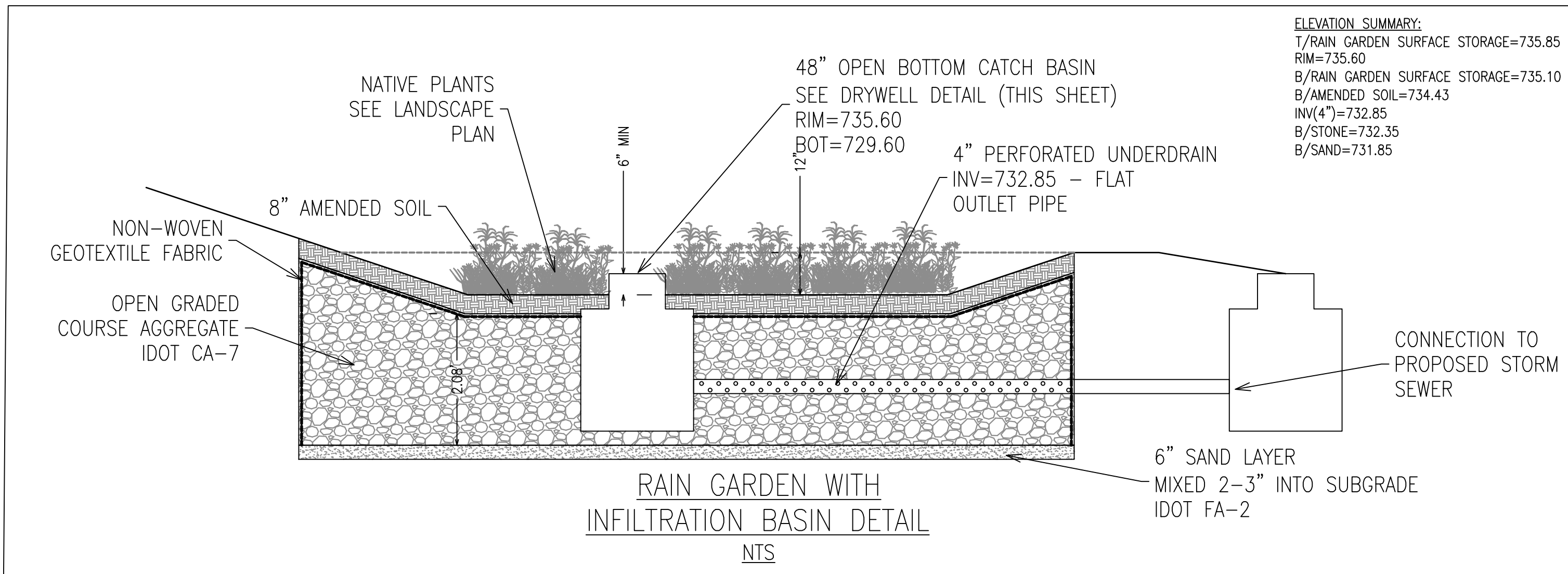
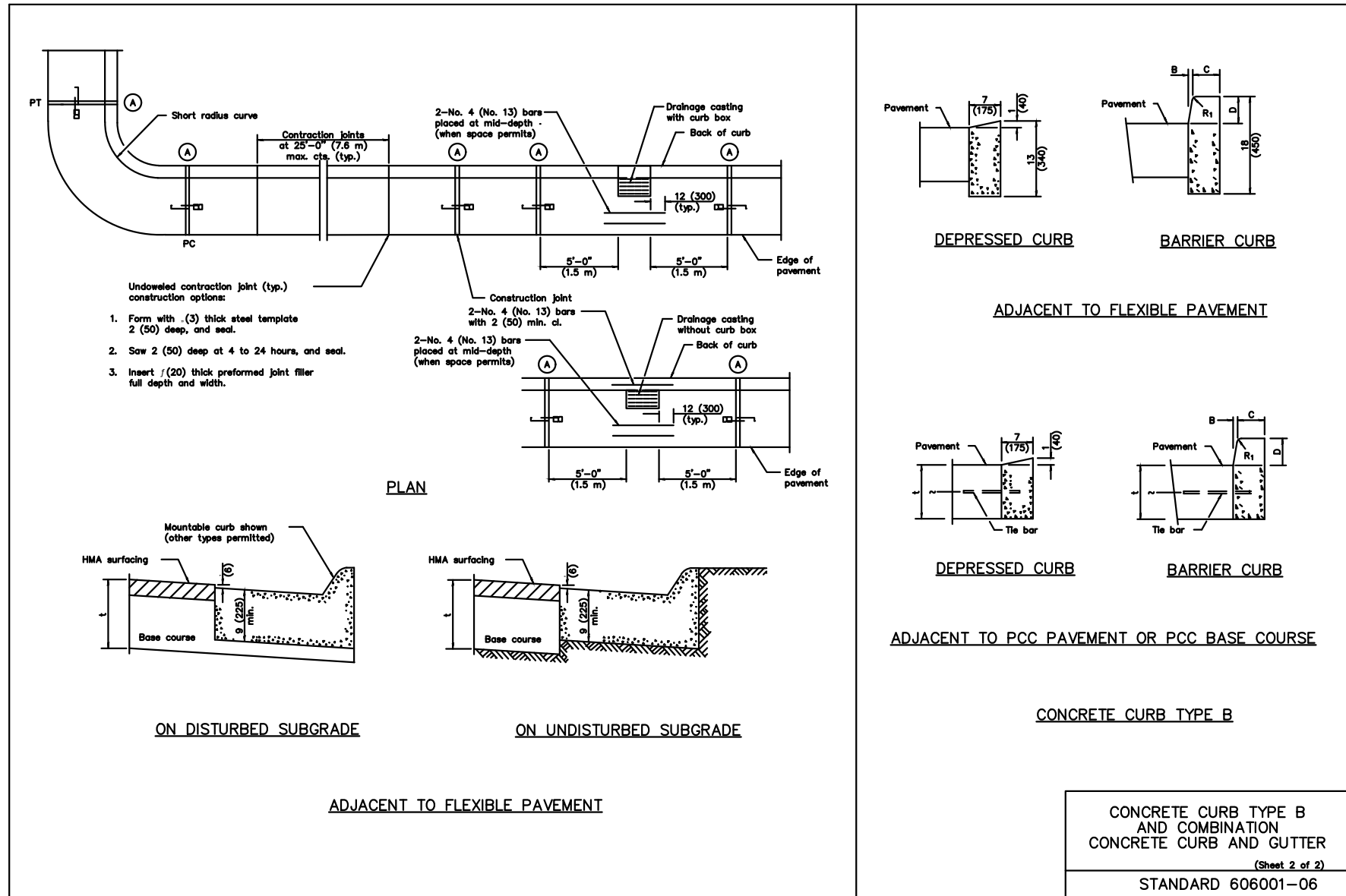
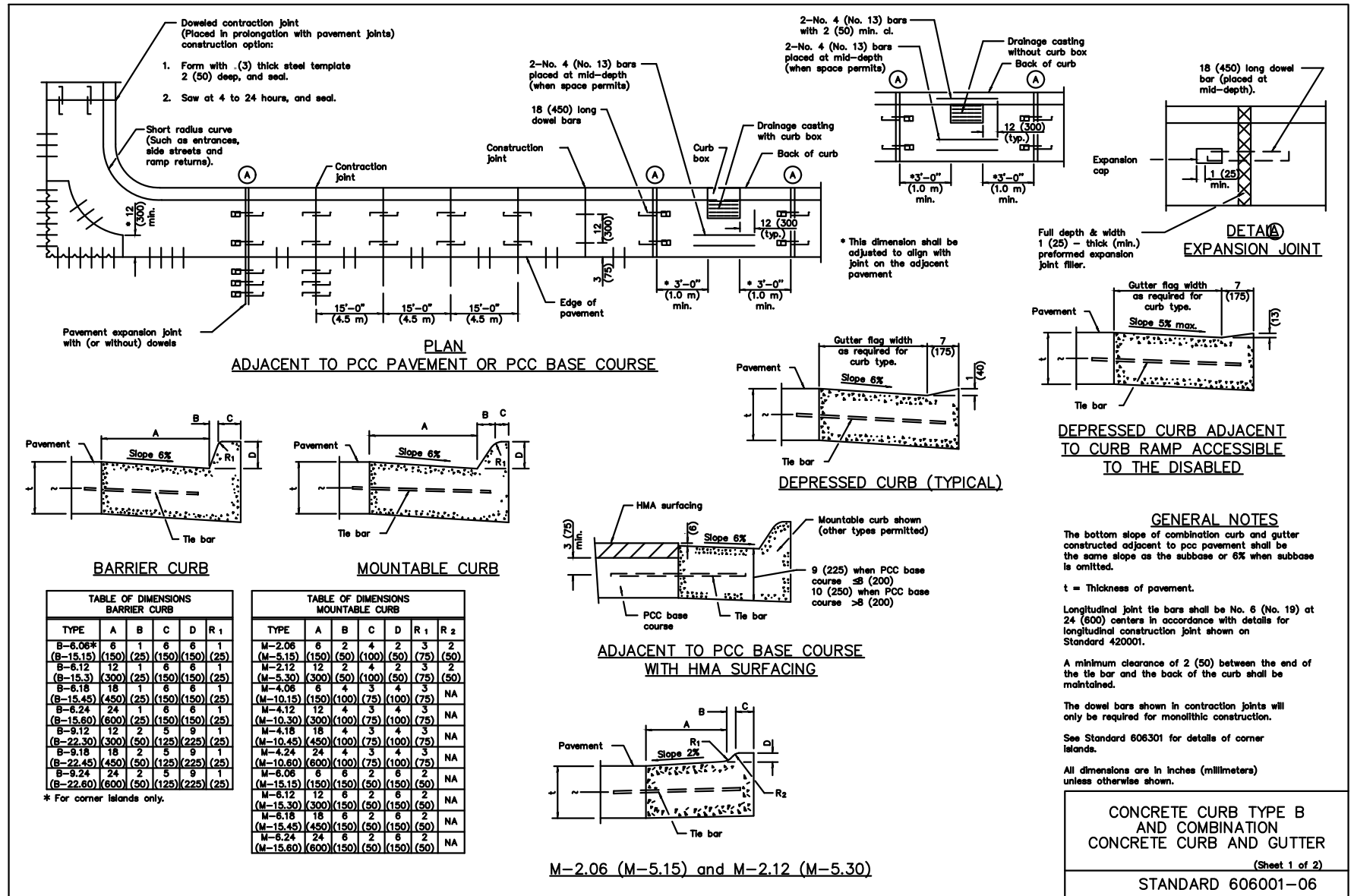
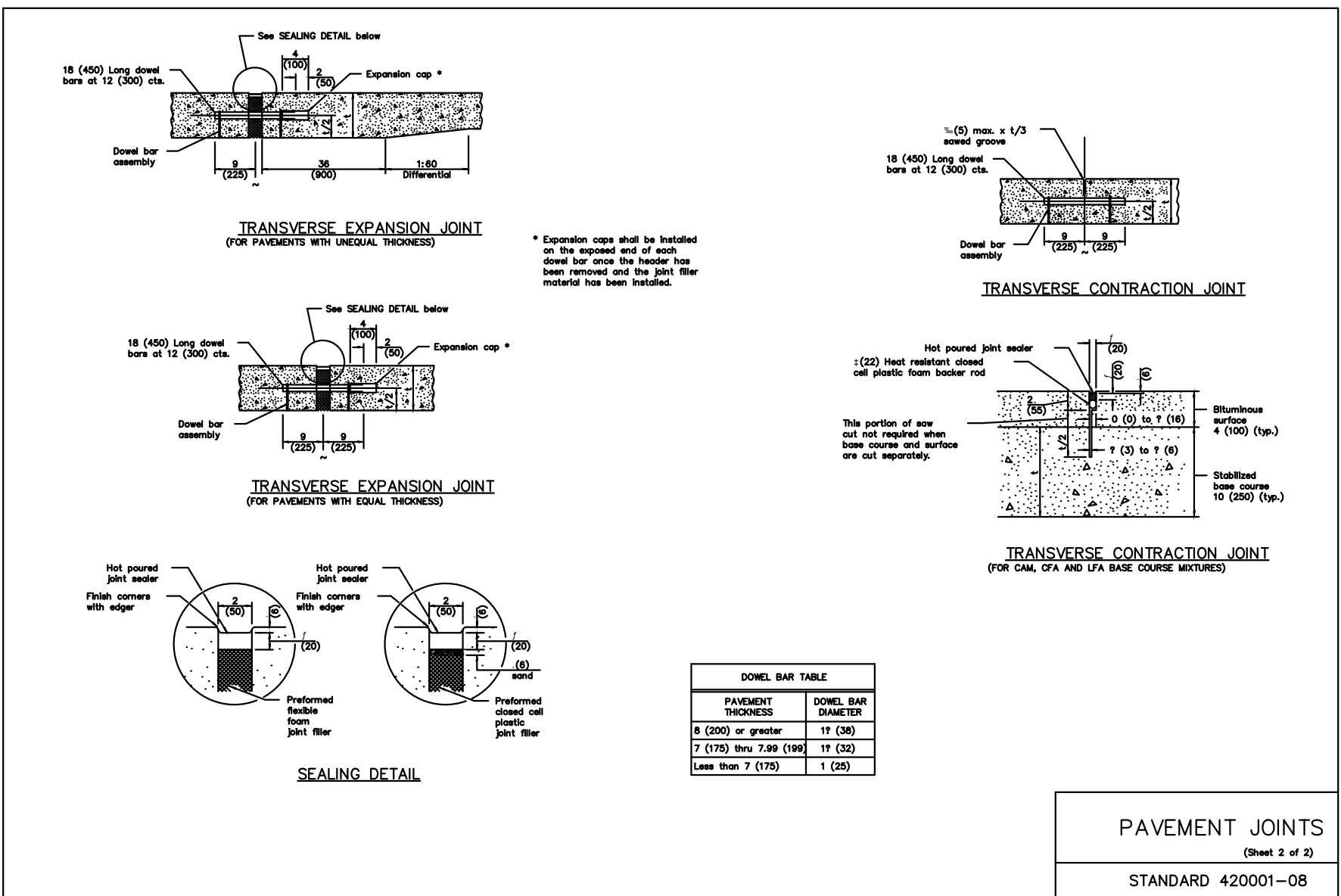
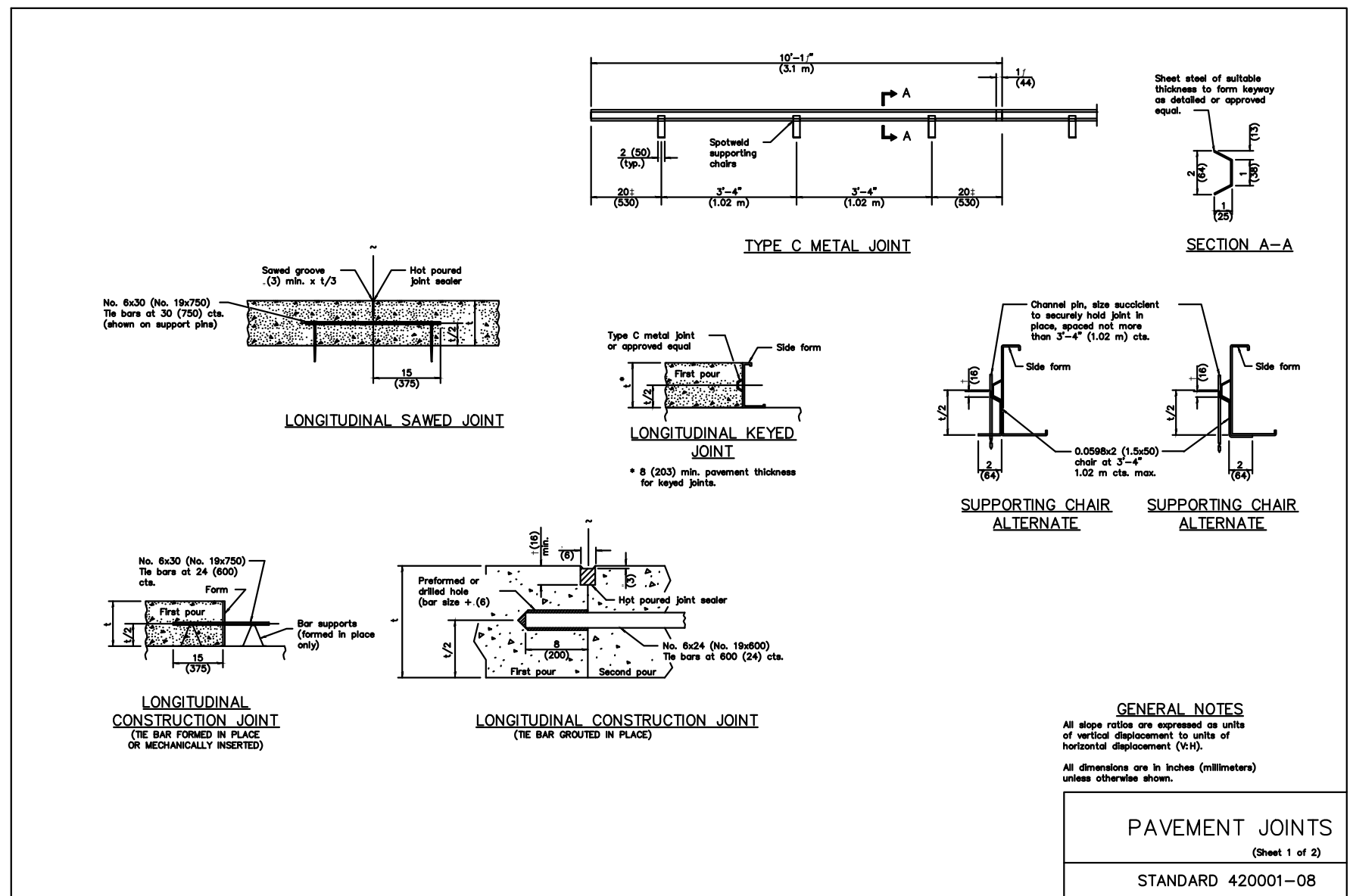
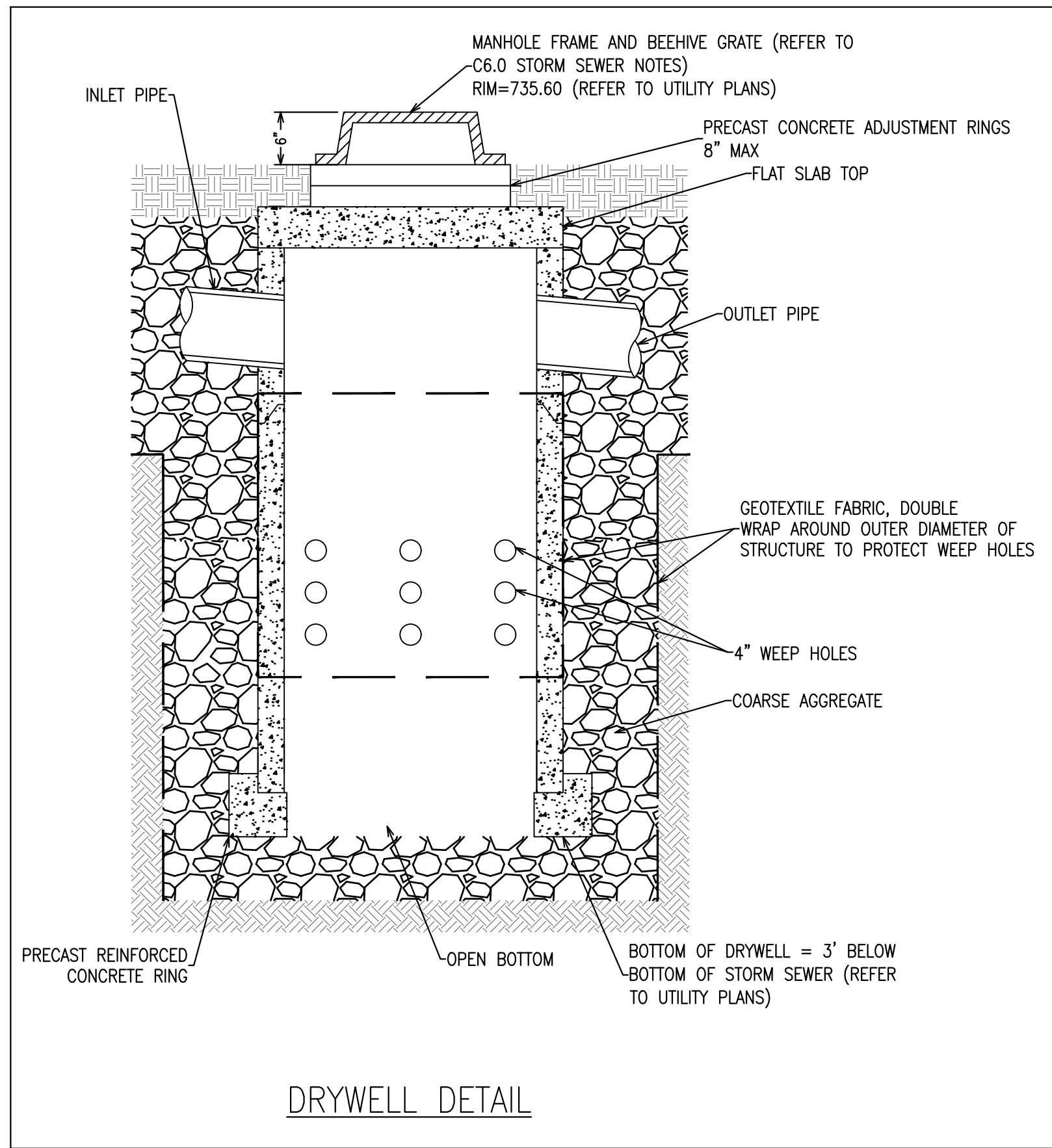




NOTE: IF SPECIFICATIONS AND/OR DETAILS PROVIDED IN THESE PLANS CONFLICT WITH THE CITY OF NAPERVILLE SPECIFICATIONS AND/OR DETAILS, THE CITY OF NAPERVILLE SHALL SUPERCEDE.



H:\H477a\DWG\Pre\Sheets\H477a-Prelim-9-Details.dwg



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

DETAILS
1960 WEST LUCENT LANE
NAPERVILLE, ILLINOIS
KARIS CRITICAL

No.	Description	Date
4	REVISED PER CITY COMMENTS	09/26/25
3	REVISED PER CITY COMMENTS	07/31/25
2	REVISED PER CITY COMMENTS	6/12/25
1	ORIGINAL PLAN DATE	4/7/25

H477a
N.T.S.
C9.2

NOTE: IF SPECIFICATIONS AND/OR DETAILS PROVIDED IN THESE PLANS CONFLICT WITH THE CITY OF NAPERVILLE SPECIFICATIONS AND/OR DETAILS, THE CITY OF NAPERVILLE SHALL SUPERCEDE.