

ONE FIVE SEVEN BUSINESS PARK STREET, UTILITY & GRADING PACKAGE

THE NSD GROUP, INC.

3711 SOUTH STATE ROUTE 157
GLEN CARBON, ILLINOIS 62034

ENGINEERS



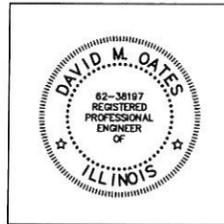
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Consulting Engineers

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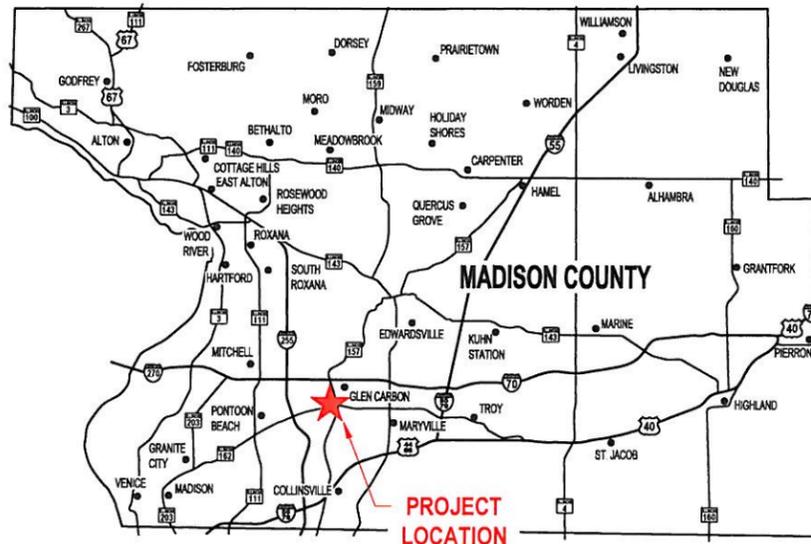
PROJECT MANAGEMENT & ENGINEER:

OATES ASSOCIATES, INC.

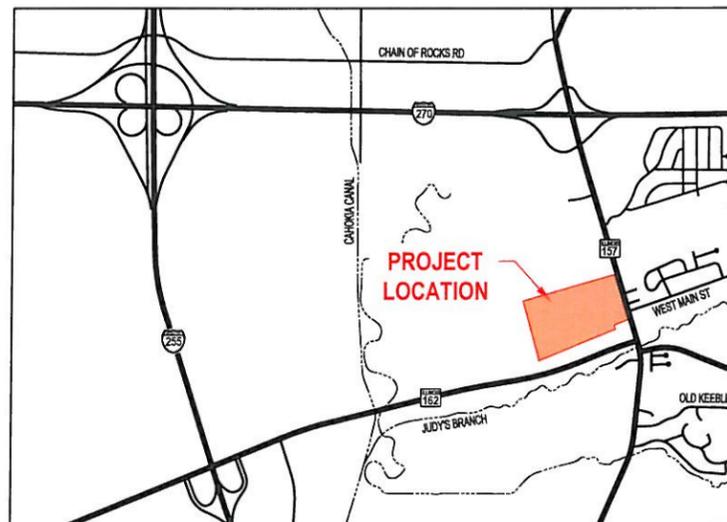
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VICINITY MAP



LOCATION MAP



INDEX OF DRAWINGS

G0.1.....COVER SHEET

C0.1.....GENERAL NOTES, UTILITY CONTACTS
& SPECIFICATIONS

C0.2.....ABBREVIATIONS, LEGEND, SYMBOLS
& SUMMARY OF QUANTITIES

C1.1.....GRADING TYPICAL SECTION

C2.1.....OVERALL SITE PLAN

C3.1.....WEST MAIN STREET PLAN & PROFILE

C3.2.....WEST MAIN STREET PLAN & PROFILE

C3.3.....WEST MAIN STREET PLAN & PROFILE

C3.4.....ROADWAY & DRAINAGE DETAILS

C4.1.....WATER MAIN PLAN & PROFILE

C4.2.....WATER MAIN PLAN & PROFILE

C4.3.....WATER MAIN PLAN & PROFILE

C4.4.....WATER MAIN PLAN & PROFILE

C4.5.....WATER MAIN PLAN & PROFILE

C4.6.....WATER MAIN PLAN & PROFILE

C4.7.....WATER MAIN PLAN & PROFILE

C4.8.....WATER MAIN DETAILS

C5.1.....SANITARY SEWER PLAN & PROFILE

C5.2.....SANITARY SEWER PLAN & PROFILE

C5.3.....SANITARY SEWER PLAN & PROFILE

C5.4.....SANITARY SEWER PLAN & PROFILE

C5.5.....SANITARY SEWER DETAILS

C6.1.....OVERALL GRADING PLAN

C6.2.....DETAILED GRADING PLAN

C6.3.....DETAILED GRADING PLAN

C6.4.....DETENTION DETAILS

C7.1.....EROSION CONTROL NOTES

C7.2.....EROSION CONTROL PLAN

C7.3.....EROSION CONTROL DETAILS

03/28/2017 - 100% PLAN SUBMITTAL

GENERAL NOTES

- ALL SITE WORK SHALL BE IN ACCORDANCE WITH THE VILLAGE OF GLEN CARBON MUNICIPAL CODE AND WITH THE LATEST EDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND HIGHWAY STANDARDS", IN SO FAR AS THEY APPLY, EXCEPT THAT ALL REFERENCES TO MEASUREMENT AND PAYMENT SHALL BE DELETED.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED ON THE PROPOSED CONSTRUCTION SITE AND NOT ON ANY PUBLIC STREET OR RIGHT OF WAY.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
- ALL NECESSARY TRENCH SHORING, EQUIPMENT, ETC. TO PROVIDE FOR THE PROPER PROTECTION OF WORKERS AS REQUIRED BY O.S.H.A. AND THE ILLINOIS DEPARTMENT OF LABOR SHALL BE INCLUDED.
- THE CONTRACTOR SHALL PROVIDE THE NECESSARY SIGNS AND BARRICADES FOR TRAFFIC CONTROL WHILE WORKING THROUGHOUT THE CONSTRUCTION PERIOD. ALL MATERIAL PILES, EQUIPMENT, OPEN EXCAVATIONS OR THEIR OBSTRUCTIONS OR HAZARDS TO MOTORISTS OR PEDESTRIANS SHALL BE ENCLOSED BY FENCES OR PROTECTED BY BARRICADES. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARDS.
- ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH SUITABLE MATERIAL AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE AREA SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION.
- THE CONSTRUCTION OF THIS PROJECT WILL BE GOVERNED BY THE CONDITIONS OF THE GENERAL NPDES STORMWATER PERMIT ISSUED BY I.E.P.A. DIVISION OF WATER POLLUTION CONTROL. A "STORMWATER POLLUTION PREVENTION PLAN" HAS BEEN PREPARED BY THE ENGINEER IN CONJUNCTION WITH THIS PLAN SET. THE "STORMWATER POLLUTION PREVENTION PLAN" CONTAINS INFORMATION SUCH AS REQUIRED SEQUENCE OF CONSTRUCTION, SEED, FERTILIZER AND LIME APPLICATION RATES AND PROCEDURES, AND PROVISION FOR MAINTENANCE OF EROSION CONTROL STRUCTURES AND MEASURES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE PLAN, TO KEEP A COPY OF THE PLAN AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES, AND TO ASSURE COMPLIANCE WITH THE PLAN.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SILTATION CONTROL, AS NEEDED, TO PREVENT SILTATION OF OFF SITE PROPERTIES, UNTIL THE VEGETATION IN ALL DISTURBED AREAS HAS BEEN ESTABLISHED, AT WHICH TIME HE/SHE SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TEMPORARY SILTATION CONTROL AND REPAIR OF ANY ERODED AREAS. SILT FENCING AND OTHER EROSION CONTROL SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH APPLICABLE I.E.P.A. EROSION CONTROL STANDARDS AND THE ILLINOIS URBAN MANUAL.
- DITCH CHECKS SHALL BE INSTALLED ACCORDING TO NRCS STANDARD IL-635 AND SILT FENCE SHALL BE INSTALLED ACCORDING TO NRCS STANDARD IL-620.
- SILT FENCE OR SILT SOCK SHALL BE INSTALLED WHERE SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES.
- THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH NRCS STANDARD IL-630.
- STORM SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE STORM SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF STORM SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE.
- ALL DRAINAGE STRUCTURES CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT, SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS OR FOREIGN MATTER AT THE END OF EACH WORKING DAY AND AT THE TIME OF FINAL INSPECTION.
- BEDDING FOR ALL PIPES SHALL BE CLASS II PER ASTM 2321, UNLESS REQUIRED OTHERWISE BY THE PIPE MANUFACTURER. ALL PIPE TRENCHES UNDER PAVED AREAS SHALL BE BACKFILLED WITH COARSE AGGREGATE, GRADATION CA 6.
- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH IDOT HIGHWAY STANDARDS AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- 14907744.66LES, EQUIPMENT, OPEN EXCAVATIONS OR THEIR OBSTRUCTIONS OR HAZARDS TO MOTORISTS OR PEDESTRIANS SHALL BE ENCLOSED BY FENCES OR PROTECTED BY BARRICADES. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARDS.

SANITARY SEWER SPECIFICATIONS

- SEWER PLANS: ALL SANITARY SEWER PLANS MUST BE IN CONFORMANCE WITH "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" (LATEST EDITION) (REFERENCED AS STANDARD SPECIFICATIONS, HEREFTER) AND THE ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS, PART 370, LATEST EDITION. IF THERE IS A CONFLICT BETWEEN THE SPECIFICATIONS AND THESE REGULATIONS, THE MORE STRINGENT PROVISION SHALL APPLY.
- SEWER PIPE: SANITARY SEWER PIPE SHALL BE SDR35PVC CONFORMING TO ASTM D3034, WITH JOINTS CONFORMING TO ASTM 3212. SERVICE SEWERS AND RISERS SHALL BE SDR35PVC CONFORMING TO ASTM D3034, WITH JOINTS CONFORMING TO ASTM 3212.
- BEDDING OF THE PIPE AND BACKFILL SHALL BE DONE IN ACCORDANCE WITH ASTM D2321-89 CLASS IB, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AND AS SHOWN IN THE PLANS. GRANULAR TRENCH BACKFILL SHALL BE USED AS INDICATED ON THE PLANS AND WHEN THE EDGE OF ANY TRENCH IS WITHIN 2 FT. OF ANY PAVEMENT, CURB, SIDEWALK, OR OTHER STRUCTURE. TRENCH BACKFILL SHALL BE COMPACTED WITH A ROLLER, VIBRATORY PLATE, OR OTHER COMPACTING DEVICE IN 12-INCH LIFTS.
- AIR AND DEFLECTION TESTING: AIR AND DEFLECTION TESTING OF ALL NEW SANITARY SEWER MAINS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 31.1.11 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS AND MANPOWER NECESSARY FOR TESTING. ALL TESTS SHALL BE WITNESSED BY THE ENGINEER AND THE VILLAGE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE VILLAGE PUBLIC WORKS DEPARTMENT 48 HOURS IN ADVANCE OF ANY TESTING.
- MANHOLES: ALL MANHOLES SHALL BE TYPE A IN DESIGN AND FOUR FEET (4') IN DIAMETER, EQUIPPED WITH A-LOCK RUBBER GASKETS. RISERS AND SLABS SHALL BE IN ACCORDANCE WITH ASTM C478. LIFTING HOLES SHALL BE PROVIDED IN THE BASES AND RISERS. LIFTING HOOKS SHALL BE PROVIDED IN FLAT SLABS. MANHOLE STEPS SHALL BE CONSTRUCTED OF COPOLYMER POLYPROPYLENE PLASTIC.
- MANHOLE FRAMES AND LIDS: ALL MANHOLE FRAMES AND LIDS SHALL BE EITHER NEENAH TYPE R-1916D, DEETER TYPE 1270 SERIES OR EAST JORDAN TYPE 1058ZPT. THE MANHOLE LID SHALL HAVE CAST IN THE CENTER THE WORD "WASTEWATER". MASTIC SEALANT SHALL BE APPLIED BETWEEN THE CONCRETE AND FLANGE OF THE FRAME BEFORE THE LID BOLTS ARE TIGHTENED. PICKHOLES SHALL NOT BE LARGER THAN 1" AND SHALL BE OF THE CONCEALED TYPE.
- SANITARY SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE SANITARY SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF SANITARY SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE.
- SWITCHING FLOW: THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE VILLAGE PUBLIC WORKS DEPARTMENT BEFORE SWITCHING FLOW FROM THE NEW SEWER TO THE EXISTING SYSTEM.

WATER MAIN SPECIFICATIONS

- WATER PLANS: ALL WATER PLANS MUST BE IN CONFORMANCE WITH "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" (LATEST EDITION) (REFERENCED AS STANDARD SPECIFICATIONS, HEREFTER). IF THERE IS A CONFLICT BETWEEN THE SPECIFICATIONS AND THESE REGULATIONS, THE MORE STRINGENT PROVISION SHALL APPLY.
- FIRE HYDRANTS: FIRE HYDRANTS SHALL BE REQUIRED FOR ALL SUBDIVISIONS. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 45 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION. FIRE HYDRANTS SHALL BE LOCATED NO MORE THAN ONE THOUSAND FEET (1,000') APART, WITHIN FOUR HUNDRED FEET (400') OF EVERY LOT, AND SHALL BE APPROVED BY THE PUBLIC WORKS COORDINATOR OR DESIGNEE AND THE CHIEF OF THE FIRE PROTECTION DISTRICT IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S STANDARDS. TO ELIMINATE FUTURE STREET OPENINGS, ALL UNDERGROUND UTILITIES FOR FIRE HYDRANTS, TOGETHER WITH THE FIRE HYDRANTS THEMSELVES, AND ALL OTHER SUPPLY IMPROVEMENTS SHALL BE INSTALLED BEFORE ANY FINAL PAVING OF A STREET SHOWN ON THE SUBDIVISION PLAT.
- WATER MAIN PIPE: WATER MAIN PIPE SHALL BE SDR21 PVC OR CLASS 350 DUCTILE IRON BELL AND SPIGOT JOINTS CONFORMING TO ASTM D3139 EXCEPT AT HYDRANTS AND FITTINGS.
- TAPPING SLEEVES: TAPPING SLEEVES SHALL BE ONE OF THE FOLLOWING: MUELLER STYLE H-615 FOR CAST IRON PIPE OR DUCTILE IRON PIPE; MUELLER STYLE H-612, ROMAC STYLE SST OR FORD STYLE FAST FOR PVC PIPE. ALL TAPPING SLEEVES SHALL INCLUDE EITHER A DUCTILE IRON OR STAINLESS STEEL RETAINING FLANGE.
- TAPPING VALVES: TAPPING VALVES SHALL BE FLANGED BY MECHANICAL JOINT OUTLETS WITH RESILIENT SEAT WEDGE SHUTOFF DESIGN. THE RETAINER GLAND ON THE MECHANICAL JOINT OUTLET SHALL BE A MEGALUG SERIES 2000PV.
- CROSSINGS OF WATER MAINS: CROSSINGS OF WATER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS.
- THRUST BLOCKING: THRUST BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 41-2.09 OF THE STANDARD SPECIFICATIONS.
- DISINFECTION: CHLORINE SHALL BE USED FOR DISINFECTION IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS.
- HYDROSTATIC AIR TESTING: HYDROSTATIC AIR TESTING OF ALL NEW WATER MAINS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS AND MANPOWER NECESSARY FOR TESTING. THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS DEPARTMENT WHEN THE TESTING TAKES PLACE SO THAT A VILLAGE REPRESENTATIVE CAN BE PRESENT.
- BACTERIOLOGICAL WATER SAMPLING: BACTERIOLOGICAL WATER SAMPLING OF ALL NEW WATER MAINS SHALL BE PERFORMED BY A REPRESENTATIVE OF THE VILLAGE PUBLIC WORKS DEPARTMENT PRIOR TO ACCEPTANCE OF THE WATER LINES BY THE VILLAGE.
- TURNING ON WATER MAINS: THE VILLAGE PUBLIC WORKS DEPARTMENT SHALL BE RESPONSIBLE FOR TURNING ON THE NEW WATER MAIN EXTENSION.

UTILITY CONTACTS

THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION THAT MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. ALL ARE MEMBERS OF J.U.L.I.E., UNLESS NOTED OTHERWISE.

AT&T (TELEPHONE)
203 GOETHE STREET
COLLINSVILLE, IL 62234
(618) 346-6400

CHARTER COMMUNICATIONS (CABLE TV)
210 W. DIVISION ST.
MARYVILLE, IL 62062
(618) 345-8121

McLEOD USA TELECOMMUNICATIONS, INC (TELEPHONE)
102 EAST SHAFER STREET
FORSYTHE, IL 62535
(217) 519-0465

VILLAGE OF GLEN CARBON (SEWER / WATER)
151 NORTH MAIN STREET
GLEN CARBON, IL 62034
(618) 288-1200

AMEREN IP (GAS & ELECTRIC)
2600 NORTH CENTER
MARYVILLE, IL 62062
(618) 346-1287

CENTERPOINT ENERGY PIPELINE SYSTEMS (GAS)
907 NORTH BLUFF ROAD #7
COLLINSVILLE, IL 62234
(618) 343-1467

THE ABOVE INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO THE OWNER AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING HIS/HER BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY SAME.

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED TO BE APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. ILLINOIS LAW REQUIRES A MINIMUM 48-HOUR NOTICE TO ALL UTILITY COMPANIES BEFORE DIGGING. FIELD LOCATIONS OF UNDERGROUND FACILITIES MAY BE OBTAINED BY CALLING THE J.U.L.I.E. SYSTEM AT 800-892-0123 AND PROVIDING 48 HOURS ADVANCE NOTICE. NON-J.U.L.I.E. MEMBERS MAY BE CONTACTED DIRECT. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED BELOW.

ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHOULD BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER. ALL ROADSIDE OBJECTS (UTILITY POLES, FIRE HYDRANTS, SIGNS, ETC.) SHALL BE RELOCATED TO PROVIDE A MINIMUM OF 2 FEET CLEARANCE, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT. THE COST OF ANY NECESSARY RELOCATIONS MAY BE INCURRED BY THE OWNER IF OTHER ARRANGEMENTS CANNOT BE MADE OR PRIOR AGREEMENTS ARE NOT IN PLACE.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATIONS
PHONE: 800-892-0123

100 Lanier Court, Suite 1
Collinsville, IL 62234
tel: 618.345.2200
www.datesassociates.com



ILLINOIS DESIGN FIRM LICENSE NO.: 164-00115
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COLLINSVILLE

ONE FIVE SEVEN BUSINESS PARK
STREET, UTILITY & GRADING PACKAGE

GENERAL NOTES, UTILITY CONTACTS
& SPECIFICATIONS

EXP. 00/00/00

PROJECT NO.:
15187

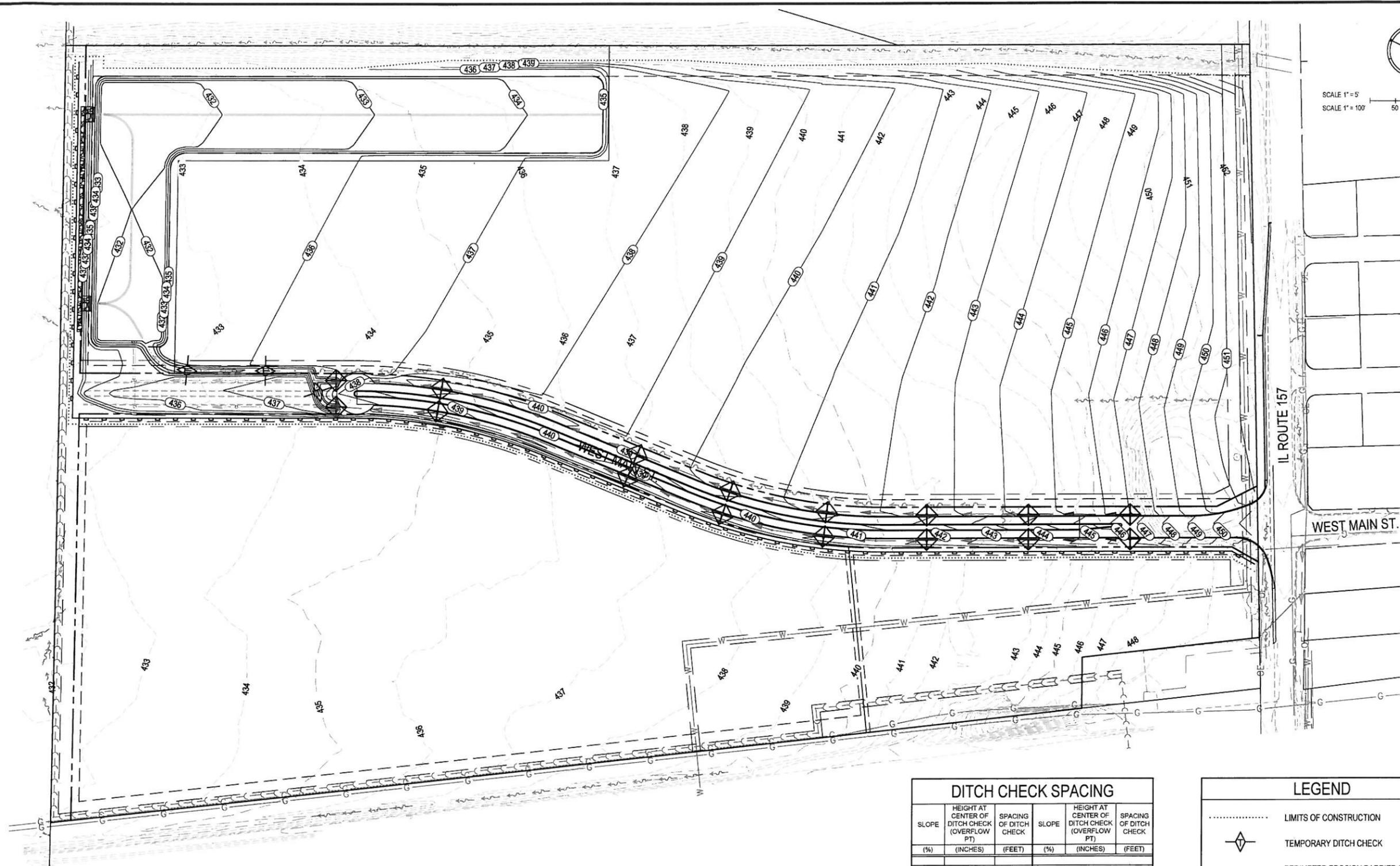
DATE:
03/13/2017

SHEET NO.:

03/28/2017 - 100% PLAN SUBMITTAL

C0.1

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NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER.

DITCH CHECK SPACING						
SLOPE (%)	HEIGHT AT CENTER OF DITCH CHECK (OVERFLOW PT)		SLOPE (%)	HEIGHT AT CENTER OF DITCH CHECK (OVERFLOW PT)		
	(INCHES)	(FEET)		(INCHES)	(FEET)	
8.0	12"	13.00	4.0	12"	25.00	
	18"	20.00		18"	38.00	
	24"	26.00		24"	50.00	
7.0	12"	14.00	3.0	12"	33.00	
	18"	21.00		18"	50.00	
	24"	28.00		24"	66.00	
6.0	12"	17.00	2.0	12"	50.00	
	18"	26.00		18"	75.00	
	24"	34.00		24"	100.00	
5.0	12"	20.00	1.0	12"	100.00	
	18"	30.00		& UNDER	18"	150.00
	24"	40.00		24"	200.00	

LEGEND

- LIMITS OF CONSTRUCTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
- INLET & PIPE PROTECTION
- STONE RIPRAP

03/28/2017 - 100% PLAN SUBMITTAL

REVISIONS:	DATE:	REMARKS:
NO.:		

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ONE FIVE SEVEN BUSINESS PARK
 STREET, UTILITY & GRADING PACKAGE

EROSION CONTROL PLAN
 WEST MAIN STREET EXTENSION

EXP. 00/00/00
 PROJECT NO.: 15187
 DATE: 03/13/2017
 SHEET NO.:

C7.2