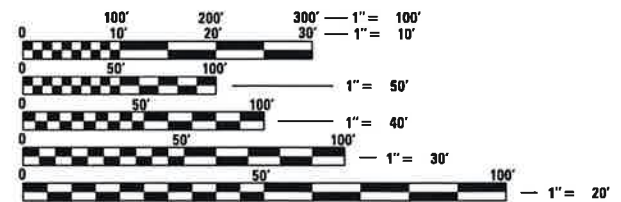
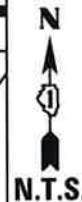
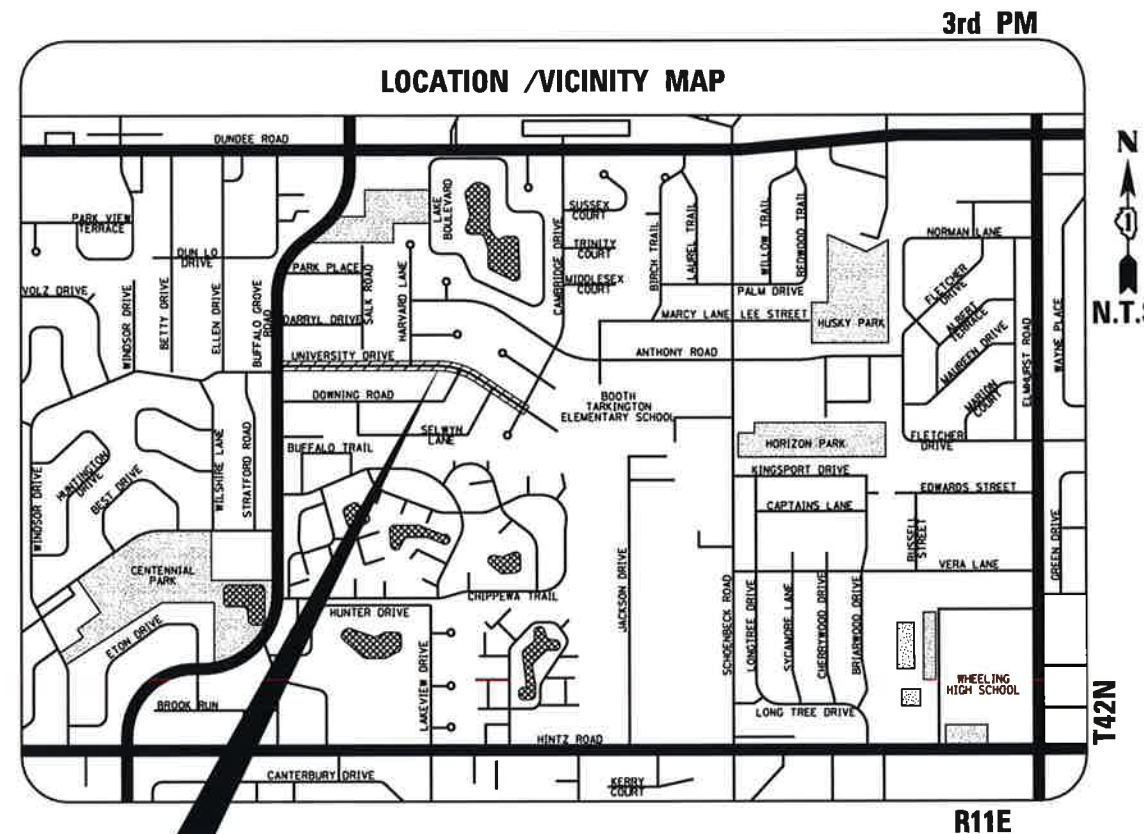


2019 UNIVERSITY DRIVE STREET AND UTILITY IMPROVEMENT

VILLAGE OF BUFFALO GROVE BUFFALO GROVE, ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2-5 GENERAL NOTES, STANDARDS, & COMMITMENTS
- 6-9 SUMMARY OF QUANTITIES
- 10 TYPICAL SECTIONS
- 11-13 SCHEDULE OF QUANTITIES
- 14 ALIGNMENT, TIES, AND BENCHMARKS
- 15 MAINTENANCE OF TRAFFIC NOTES
- 16-17 REMOVAL PLANS
- 18-21 ROADWAY / UTILITY PLAN AND PROFILE
- 22-23 LANDSCAPING / EROSION CONTROL PLAN / PAVEMENT MARKING
- 24-28 ADA RAMP IMPROVEMENT PLANS
- 29-31 VILLAGE DETAILS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PROJECT LOCATION
UNIVERSITY DRIVE

LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 2,228 FT. = 0.42 MILE
NET LENGTH = 2,228 FT. = 0.42 MILE

PERMITTING /COORDINATING AGENCIES:	
VILLAGE OF BUFFALO GROVE (ENGINEERING DEPARTMENT)	847-459-2523
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) - WATER	217-782-3397
METROPOLITAN WATER RECLAMATION DISTRICT (MWRD)	312-751-3255
COOK COUNTY DEPT. OF TRANSPORTATION & HIGHWAY	312-603-1670

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONSULTING ENGINEERS **BLA, Inc.**
333 PIERCE ROAD SUITE 200 ITASCA, IL 60143
P(630) 438 6400 F(630) 438 6444 www.bla-inc.com

EXISTING UTILITIES:
WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THE FACILITIES.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING JULIE AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO WORK BEING DONE.

NOTE:
CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

CIVIL



7/25/19
DATE

MATTHEW CESARIO
ILLINOIS REGISTRATION NO.: 062.066160
EXPIRATION DATE: 11-30-2019

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016 (HEREIN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2019; THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION; THE DETAILS IN THE PLANS; AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- EASEMENT FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAYS ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND / OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT THEIR OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR COSTS INCURRED.
- ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS AND REFERENCE MARKERS UNTIL THE OWNER, OWNER'S REPRESENTATIVE, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, THEY SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED, EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATIONS OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NECESSARY FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL AND EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE RESIDENT ENGINEER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.
- TREE ROOT PRUNING SHALL BE USED WHERE NECESSARY IN AREAS OF PROPOSED SIDEWALK, CURB AND GUTTER, UTILITIES AND NEW CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE.
- THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET ACCESS, EXISTING DRIVEWAY ACCESS AND PEDESTRIAN ACCESS TO ADJUTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT UNLESS OTHERWISE NOTED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.
- THE CONTRACTOR SHALL TAKE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THEIR EXPENSE.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.

UTILITY NOTES

- UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
- MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.
- SANITARY SERVICE CONNECTIONS TO NEW SEWERS SHLL BE MADE WITH WYE BRANCHES. WYE BRANCES SHALL BE FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TEE BRANCHES ARE NOT ALLOWED.
- ALL CONNECTION TO EXISTING SANITARY MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM OR SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
- STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.
- ALL WATER MAIN SHALL HAVE MECHANICAL RESTRAINED TYPE JOINTS AT ALL CONNECTIONS AND FITTINGS. IN ADDITION, ALL HARDWARE SHALL BE STAINLESS STEEL.
- THRUST BLOCKING SHALL BE PROVIDED ON WATER MAIN AT ALL BENDS, TEES, ELBOWS, ETC. INDIVIDUAL INSPECTION FOR ALL THRUST BLOCKING IS REQUIRED. THRUST BLOCKING SHALL BE POURED IN PLACE CONCRETE. PRECAST BLOCKS MAY BE USED AS APPROVED BY THE RESIDENT ENGINEER.
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER. ALL DOWNSPOUTS, SIDE YARD DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. FOOTING DRAINS SHALL FIRST DRAIN TO A SUMP PIT.
- BUILDING STORM SEWER SERVICE PIPE SHALL NOT BE LESS THAN THE DIAMETER OF THE PLUMBING PIPE FROM THE BUILDING, BUT NOT LESS THAN 6 INCHES. THE PIPE SHALL HAVE A MINIMUM SLOPE OF 1/8-INCH PER FOOT, BUT NOT MORE THAN 1/2 -INCH PER FOOT. CHANGES OF DIRECTION OF SERVICE PIPE SHALL BE MADE WITH COMBINATIONS OF 22-1/2 DEGREE BENDS WHEREVER PRACTICABLE, WITH NOT LESS THAN 2 FEET OF STRAIGHT PIPE BETWEEN SUCH BENDS. RIGHT ANGLE (90 DEGREE) BENDS WILL NOT BE ALLOWED. WHEN A SERVICE LINE-EXCEEDS 100 FEET IN LENGTH, A CLEANOUT SHALL BE PROVIDED AT A LOCATION DESIGNATED BY THE ENGINEER. THE CLEANOUT SHALL BE PROPERLY SEALED, WITH THE TOP OF THE PLUGGED RISER FLUSH WITH FINISHED GRADE.

VILLAGE OF BUFFALO GROVE GENERAL NOTES

- FRAMES, LIDS, GRATES, VALVES, FIRE HYDRANTS, ETC. WHICH ARE ABANDONED OR R EPLACED IN THIS PROJECT SHALL BE SALVAGED AND REMAIN THE PROPERTY OF THE VILLAGE OF BUFFALO GROVE. THE CONTRACTOR SHALL COORDINATE DELIVERY TO 51 RAUPP BOULEVARD WITH THE ENGINEER. ANY DAMAGE TO THE SALVAGED ITEMS DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS.
- ANY EARTH EXCAVATION DONE WITH REMOVAL OR FRAMING OF DRIVEWAY, SIDEWALK OR CURB AND GUTTER IS INCIDENTAL TO THAT ITEM OF WORK.
- ANY STREET LIGHT POLE BRACING REQUIRED SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- NO SIGNAGE IS TO BE REMOVED, IF SIGNS ARE TAKEN DOWN FOR CONSTRUCTION PURPOSES THEY MUST BE RE-ERECTED ON THE SAME DAY TO THE SATISFACTION OF THE ENGINEER.
- ANY BRANCHES THAT REQUIRE TRIMMING FOR EQUIPMENT CLEARANCES / CONSTRUCTION OPERATIONS SHALL BE DONE IN ACCORDANCE WITH THE IDOT DISTRICT ONE DETAIL "PRUNING FOR SAFETY AND EQUIPMENT CLEARANCES" AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT. ALL ADDITIONAL TREE TRIMMING MUST BE APPROVED BY THE ENGINEER.
- ALL HOOKS AND LIFTING RINGS SHALL BE REMOVED AND CUT FLUSH ONCE THE STRUCTURE IS IN ITS FINAL LOCATION AND HAVE MORTAR INSTALLED TO COVER THE REBAR.

VILLAGE OF BUFFALO GROVE WATER MAIN NOTES

- SIZES OF EXISTING MAINS WERE DETERMINED FROM THE VILLAGE OF BUFFALO GROVE UTILITY ATLASES AND MAY NOT REPRESENT ACTUAL WATER MAIN SIZES. THE CONTRACTOR SHALL HAVE AN ADEQUATE NUMBER OF FITTINGS, SLEEVES, ETC TO COMPLETE THE WORK WITHOUT DELAYS DUE TO DIFFERING WATER MAIN PIPE SIZES.
- COVER ALL NEW FIRE HYDRANTS AND ABANDONED FIRE HYDRANTS WITH BLACK PLASTIC BAGS AFTER INSTALLATION OR UNTIL REMOVAL AND UNTIL NEW WATER MAIN IS IN SERVICE. THE PLASTIC BAG SHALL BE SECURELY TAPED TO THE FIRE HYDRANT.
- ADJUSTMENT OF VALVE VAULT RIM ELEVATIONS TO FINAL GRADE AT THE TIME OF PAVING OR LANDSCAPING SHALL BE INCLUDED IN THE COST OF THE VALVE VAULT. VALVE VAULTS SHALL HAVE RUBBER BOOTS MEETING THE REQUIREMENTS OF ASTM C-923 FOR ALL WATER MAIN CONNECTIONS. ALL VALVE VAULTS SHALL BE WATER TIGHT PER ASTM C-1244

- ALL MAIN INSTALLED NOT SUBJECT TO PRESSURE TEST AND CHLORINATION TESTING REQUIREMENTS SHALL BE INSTALLED PER THE SPECIFICATIONS AND BROUGHT UP TO SYSTEM PRESSURE UNDER WITNESS OF THE ENGINEER. THE PIPE SHALL NOT BE BACKFILLED UNTIL DIRECTED BY THE ENGINEER. THE SECTION OF PIPE WILL BE INSPECTED FOR A PERIOD OF TIME DETERMINED BY THE ENGINEER TO VERIFY THERE ARE NO LEAKS IN THE LINE. ALL COSTS ASSOCIATED WITH COMPLYING WITH THIS REQUIREMENT ARE INCLUDED IN THE COST OF THE CONTRACT.
- ALL MISHANDLED OR DAMAGED MATERIALS AS INSPECTED BY THE ENGINEER WILL BE MARKED WITH SPRAY PAINT. THE MARKED MATERIALS REMAIN THE PROPERTY OF THE CONTRACTOR. ALL MATERIALS MARKED ARE DEEMED UNSUITABLE FOR CONSTRUCTION BY THE ENGINEER AND MUST BE REMOVED FROM THE PROJECT SITE ON A WEEKLY BASIS AT NO COST TO THE VILLAGE.
- BACKFILL IN TURF AREAS MAY UTILIZE THE EXISTING SUBGRADE. ANY SETTLEMENT WITHIN THE WARRANTY PERIOD AS DESCRIBED IN THE SPECIFICATIONS SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. AT THE CONTRACTORS OPTION SAND MAY BE UTILIZED AS BACKFILL IN TURF AREAS TO PREVENT SETTLEMENT. THE SAND MUST BE KEPT 6" BELOW FINISHED GRADE FOR ACCEPTANCE OF TOPSOIL. ALL SAND UTILIZED FOR BACKFILLING IN THE PARKWAY AND ADDITIONAL TOPSOIL NEEDED SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE CONTRACT.

PROJECT SPECIFIC NOTES

- THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL FORCE MAIN, RIM AND TOP OF PIPE ELEVATIONS OF ALL WATERMAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIEND CHANGES FROM THE APPROVED ENGINEERING DRAWINGS.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNERS REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.
- THE SEWER AND WATER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE VILLAGE OF BUFFALO GROVE BEFORE WORK BEGINS.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE VILLAGE OF BUFFALO GROVE INSURANCE REQUIREMENTS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF BLA, INC. MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
- ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
- PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE-AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH TWO (2) 3/4" X 18" PLAIN ROUND STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT FORTY-FIVE (45) FOOT INTERVALS AND AT ALL PC'S, PT'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT FIFTEEN (15) FEET INTERVALS.
- UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING / OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS AT 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND GUTTERS, AND BUILDINGS. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
- ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.
- ALL PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY.
- SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE VILLAGE ENGINEER OR AUTHORIZED VILLAGE REPRESENTATIVE.
- THE CONTRACTOR SHALL BE AWARE THAT SIMULTANEOUSLY WITH THIS PROJECT, THE EXISTING SANITARY SEWER IS TO BE LINED UNDER A SEPARATE CONTRACT.



USER NAME = DMcginley	DESIGNED - MC	REVISED -
	DRAWN - MC	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - DB	REVISED -
PLOT DATE = 7/24/2019	DATE - 07/25/2019	REVISED -



VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE				MUN. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GENERAL NOTES, STANDARDS, AND COMMITMENTS				4220		COOK	31	2
SCALE: NTS				SHEET 1 OF 4 SHEETS		STA. N/A TO STA. N/A		ILLINOIS
CONTRACT NO.								

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL AND ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL AND EROSION CONTROL FEATURES DURING CONSTRUCTION AND THE DURATION OF THE PROJECT IN ACCORDANCE OF THE REQUIREMENTS OF THE CURRENT EDITION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S URBAN MANUAL. IF EROSION CONTROL MEASURES ARE DAMAGED OR NO LONGER FUNCTIONING TO THEIR FULL PURPOSE THEY SHALL BE REPLACED, THROUGHOUT THE DURATION OF THE PROJECT.
2. IN LOCATIONS WHERE VEHICLES ENTER OR EXIT THE CONSTRUCTION SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TACKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OF MATERIAL THAT IS TRACKED FROM THE PROJECT SITE. THIS WILL BE COMPLETED AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT AND AT THE DIRECTION OF THE ENGINEER.
3. 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. 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.
4. INLET FILTER BASKETS SHALL BE INSTALLED AND MAINTAINED IN INTAKE STRUCTURES WITHIN THE PROJECT LIMITS AND AT LOCATIONS DIRECTED BY THE ENGINEER. SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE BASKETS AS NECESSARY AND THE BASKETS SHALL BE REPAIRED OR REPLACED AS NEEDED.
5. THE CONTRACTOR SHALL STABILIZE ALL DISTURBED LOCATIONS WHERE WORK IS COMPLETED OR CEASED WITHIN SEVEN (7) DAYS FROM THE CESSATION OF CONSTRUCTION ACTIVITIES AT THAT LOCATION.
6. TREE TRUNK PROTECTION SHALL BE ERECTED ALONG THE DRIP LINE OF EXISTING TREES TO REMAIN WITHIN THE PROJECT LIMITS. AFTER TREES ARE SAFELY FENCED NOTHING IS TO BE STORED, DRIVE, OR DISTURBED WITHIN THE FENCE.
7. ALL EROSION CONTROL MEASURES MUST BE INSPECTED AND DOCUMENTED EVERY SEVEN DAYS AND AFTER EACH 1/2 INCH RAIN EVENT OR EQUIVALENT SNOWFALL OR SIGNIFICANT SNOWMELT.
8. LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF THE GUTTERS OR DRAINAGE STRUCTURES SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY SO NATURAL FLOW OF WATER IS NOT OBSTRUCTED.
9. THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.
10. ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
11. ALL BYPASS CHANNELS, MUST BE CONSTRUCTED SO THAT CHANNEL FLOWS WILL NOT CAUSE EROSION OF EXCAVATED MATERIAL. IN EACH CASE A SEDIMENTATION BASIN MUST BE CONSTRUCTED SO TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO THE DOWNSTREAM OUTLET OF THE PROJECT AREA.
12. PUMPS MAY BE USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE THE PROJECT LIMIT. ALL PUMPED WATER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SUPPLEMENTAL SEDIMENT CONTROL MEASURES.
13. SEDIMENT AND EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED AT WHICH TIME THE EROSION CONTROL DEVICES SHALL BE REMOVED PROPERLY FROM THE SITE.
14. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO LAND DISTURBING ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE REVISED AND IMPLEMENTED AS NECESSARY THROUGHOUT CONSTRUCTION AS CONSTRUCTION OPERATIONS DICTATE AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL EXPENSE TO THE VILLAGE.
15. THE CONTRACTOR SHALL MAINTAIN A SOURCE OF WATER AT THEIR DISPOSAL FOR THE PURPOSED OF DUST CONTROL WITHIN THE PROJECT LIMITS AND ADJACENT SIDEROADS.
16. WASTE, CONSTRUCTION DEBRIS AND CONSTRUCTION MATERIALS SHALL BE COLLECTED AND DISPOSED OF IN APPROVED RECEPTACLES.
17. THE CONTRACTOR SHALL PROPERLY MAINTAIN AND MANAGE MATERIAL STORAGE SITES, PORTABLE TOILETS, AND EQUIPMENT FUELING AND CLEANING TO ENSURE THE PROJECT IS FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.
18. CONCRETE WASHOUT FACILITIES SHALL BE AVAILABLE IF DETERMINED NECESSARY BY THE ENGINEER.
19. IF BYPASS IS NECESSARY THE INLET OF THE HOSE SHALL BE PLACED IN A SUMP PIT AND THE OUTLET SHALL BE PLACED ON AN A NON-ERODIBLE, ENERGY DISSIPATING SURFACE. A SEDIMENTATION BASIN MUST BE CONSTRUCTED TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO REJOINING THE ORIGINAL FLOW OF WATER. PUMPS MAY BE UTILIZED AS BYPASS DEVICES, IF DEEMED NECESSARY, BUT SHALL NOT DIVERT WATER OUTSIDE OF THE PROJECT LIMITS.

DEMOLITION NOTES

1. RESIDENT ACCESS MUST BE MAINTAINED THROUGHOUT THE PROJECT. TEMPORARY RAMPS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER AT DRIVEWAY LOCATIONS. REFER TO THE SPECIFICATIONS "CONSTRUCTION STAGING AND MAINTENANCE OF BASE COURSE" FOR REQUIREMENTS.
2. THE CONTRACTOR SHALL BE ADVISED THAT THERE ARE LOCATIONS OF EXISTING BRICK PAVERS WITHIN THE VILLAGE RIGHT OF WAY. THE BRICK PAVERS SHALL BE CAREFULLY REMOVED AND NEATLY STACKED ADJACENT TO THE LOCATION THEY WERE REMOVED. BRICK PAVERS SHALL ONLY BE REMOVED IF IN CONFLICT WITH CONSTRUCTION OPERATIONS AND APPROVED BY THE ENGINEER.
3. ALL FIRE HYDRANTS, HYDRANT AUXILIARY, B-BOXES AND VALVES SHALL BE CAREFULLY REMOVED. ALL HYDRANTS, VALVES, AND B-BOXES REMOVED SHALL BE SALVAGED AND DELIVERED TO THE BUFFALO GROVE PUBLIC WORKS YARD.
4. EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGE OCCURRED TO THE STRUCTURES DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE, TO THE SATISFACTION OF THE ENGINEER.
5. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER A MINIMUM OF 48 HOURS PRIOR FOR OPERATION OF EXISTING VALVE OR HYDRANT. AT NO TIME SHALL THE CONTRACTOR OPERATE ANY EXISTING VALVES OR HYDRANTS. NON COMPLIANCE WITH THIS REQUIREMENT WILL RESULT IN A \$500 FINE PER OCCURRENCE AS DETERMINED BY THE ENGINEER.
6. THE CONTRACTOR SHALL REMOVE AND SAWCUT SLURRY PROMPTLY TO PREVENT TRACKING ON EXISTING SURFACES TO REMAIN. ANY SLURRY TRACKED ON SURFACES TO REMAIN SHALL BE CLEANED THOROUGHLY OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE VILLAGE.

CONSTRUCTION SEQUENCING NOTES

1. FURNISH AND INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON PLANS AND/OR AS REQUIRED/DIRECTED BY THE ENGINEER.
2. FURNISH AND INSTALL ALL TREE PROTECTION AND TREE ROOT PRUNING AS SHOWN ON PLANS AND/OR AS REQUIRED/DIRECTED BY THE ENGINEER.
3. FULL-DEPTH SAW CUT ALL UTILITY TRENCHES. THE RESIDUE FROM SAW CUTTING SHALL BE IMMEDIATELY AND THOROUGHLY CLEANED OFF THE PAVEMENT TO PREVENT TRACKING.
4. INSTALL WATERMAIN AND WATER SERVICES ALONG UNIVERSITY DRIVE. WATER SERVICES CAN BE OPEN CUT OR MOLED. TRENCHES TO BE BACKFILLED UP TO ROADWAY FINISHED GRADE AND STONE TO BE REMOVED TO NECESSARY DEPTH IN ORDER TO INSTALL PAVEMENT.
5. STORM SEWERS TO BE INSTALLED AS INDICATED ON PLANS.
6. FORCEMAIN TO BE INSTALLED ALONG UNIVERSITY DRIVE VIA DIRECTIONAL BORING. THE CONTRACTOR HAS OPTION TO OPEN CUT FORCEMAIN AS APPROVED BY ENGINEER.

THE FOLLOWING DETAILS ARE THE SUGGESTED STAGING FOR THE WORK. IF DESIRED, THE CONTRACTOR MAY SUBMIT AN ALTERNATE SEQUENCING/STAGING PLAN AT THE PRE-CONSTRUCTION MEETING FOR APPROVAL BY THE ENGINEER. AT NO TIME WILL ANY RESIDENT BE ALLOWED TO BE WITHOUT VEHICLE ACCESS TO THEIR HOME. SIDEWALKS SHALL NOT BE REMOVED UNTIL REQUIRED, SIDEWALKS SHALL BE RE-POURED FOLLOWING CURB INSTALLATION PRIOR TO REMOVAL OF THE CURB IN THE NEXT PHASE. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL THE HOT-MIX ASPHALT BINDER COURSE PRIOR TO MOVING ON TO THE NEXT PHASE.

7. DRIVEWAYS, CURB AND GUTTERS AND SIDEWALKS/ADA RAMPS TO BE CONSTRUCTED CONCURRENTLY WITH WORK AFOREMENTIONED ABOVE, AND PRIOR TO ROADWAY RECONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO COMPLETE ALL CURB WORK ON ONE SIDE OF THE STREET AT A TIME. PRIOR TO REMOVING CURB ON OPPOSITE SIDE OF STREET, THE FULLY CURED CURB SHALL HAVE VOIDS BETWEEN EXISTING PAVEMENT FILLED WITH STONE FOR RESIDENT PARKING.
8. ALLOW DRIVEWAY APRONS A MINIMUM OF 72-HOURS TO CURE BEFORE OPENING TO TRAFFIC.
9. CONTRACTOR TO REMOVE EXISTING PAVEMENT DOWN TO EXISTING STONE BASE. GIVEN HMA DEPTHS VARY THROUGHOUT PROJECT, AGGREGATE SUBGRADE WILL BE INSTALLED UP TO 4.5 IN BELOW FINSH ROAD GRADE.
10. PROOF ROLL EXISTING PAVEMENT BASE COURSE AND INSTALL ANY AGGREGATE SUBGRADE IMPROVEMENTS AS REQUIRED AND MARKED BY THE ENGINEER.
11. PAVE HOT-MIX ASPHALT BINDER COURSE. THE CONTRACTOR WILL HAVE 14 CALENDAR DAYS FROM THE BEGINNING OF PAVEMENT REMOVAL OPERATIONS TO INSTALL BINDER COURSE IN THE AREA OF REMOVAL.
12. PAVE HOT-MIX ASPHALT SURFACE COURSE AND INSTALL PAVEMENT MARKINGS INDICATED ON PLANS.
13. COMPLETE ALL GENERAL LANDSCAPE RESTORATION.

BUFFALO GROVE ROAD SEQUENCING NOTES

ALL REQUIRED WORK ON UNIVERSITY DRIVE SHALL BE DONE DURING NO MORE THAN TWO SHUT DOWNS ON BACK TO BACK DAYS.

1. INSTALL TEMPORARY INFORMATION SIGNING AND TRAFFIC CONTROL PROTECTION.
2. LOCATE EXISTING 12 IN WATERMAIN VALVE VAULT ON NORTHEAST SIDE OF BUFFALO GROVE ROAD AND UNIVERSITY DRIVE INTERSECTION. CONTRACTOR TO CONDUCT EXPLORATORY EXCAVATION TO VERIFY PIPE DEPTH, SIZE AND MATERIAL OF EXISTING 12 IN WATERMAIN. REPORT EXISTING CONDITIONS TO THE ENGINEER.
3. UPON ENGINEER'S ARROVAL TO PROCEED, SHUT OFF 12 IN WATERMAIN AT THE NORTHEAST AND SOUTHEAST VALVE VAULTS. REMOVE REQUIRED SEGMENTS OF EXISTING 12 IN WATERMAIN.
4. CHLORINATE AND INSTALL PROPOSED 12 IN WATERMAIN SEGMENTS, CONNECTING TO THE EXISTING WATERMAIN.
5. CUT AND CAP EXISTING 12 IN WATERMAIN AND INSTALL THRUST BLOCK.
6. REPEAT STEPS FOR PROPOSED WATERMAIN INSTALLATION AT #23 UNIVERSITY DRIVE AS SHOWN ON PLANS
7. CONTRACTOR TO ABANDON THE TWO VALVE VAULTS AT THE SOUTHEAST CORNER OF THE INTERSECTION.
8. COMPLETE ALL REMAINING UTILITY IMPROVEMENTS ON AND ADJACENT TO BUFFALO GROVE ROADWAY.
9. INSTALL SIDEWALK AND CURB ON AND ADJACENT TO BUFFALO GROVE ROADWAY.
10. INSTALL REQUIRED PATCHING.
11. REMOVE TEMPORARY TRAFFIC CONTROL AND TRAFFIC CONTROL PROTECTION.
12. COMPLETE ALL GENERAL LANDSCAPE RESTORATION.

ALL WORK ON AND ADJACENT TO BUFFALO GROVE ROADWAY SHALL BE COMPLETE, INCLUDING RESTORATION, WITHIN TWO CALENDAR WEEKS OF INITIAL DISTRUBANCE. FAILURE TO COMPLETE THIS WORK WITHIN TWO CALENDAR WEEKS OF STARTING WILL BE CAUSE FOR LIQUIDATED DAMAGES OF \$2,500 PER DAY AND WILL BE APPLIED ACCORDING TO THE STANDARD SPECIFICATIONS.

ALL WORK ON AND ADJACENT TO BUFFALO GROVE ROADWAY SHALL BE COMPLETED DURING THE HOURS SPECIFIED ON THE COOK COUNTY PERMIT.

DOWNING & SELWYN SEQUENCING NOTES

1. CONTRACTOR TO CONDUCT EXPLORATORY EXCAVATION ON THE SOUTHEAST CORNER OF INTERSECTION TO VERIFY EXISTING PIPE DEPTHS, SIZE AND MATERIALS FOR WATERMAIN AND STORM SEWERS. REPORT EXISTING CONDITIONS TO THE ENGINEER.
2. PRESSURE CONNECTION WILL BE MADE INTO EXISTING 6 IN WATERMAIN ON THE SOUTHEAST CORNER.
3. ONCE PROPOSED WATERMAIN IS INSTALLED, CONTRACTOR TO CLOSE VALVE AND HAVE OPERATING NUT REMOVED AND A PLATE, PROVIDED BY THE VILLAGE, INSTALLED ON TOP OF CLOSED VALVE.
4. CUT AND CAP EXISTING WATER MAIN AND INSTALL THRUST BLOCK.
5. INSTALL WATERMAIN QUALITY STORM SEWERS AS SHOWN ON PLANS.

CAMBRIDGE DRIVE SEQUENCING NOTES

1. CONTRACTOR TO CONDUCT EXPLORATORY EXCAVATION ON THE NORTHEAST AND SOUTHEAST CORNERS OF INTERSECTION TO VERIFY EXISTING PIPE DEPTHS, SIZE AND MATERIALS FOR WATERMAIN AND STORM SEWERS. REPORT EXISTING CONDITIONS TO THE ENGINEER.
2. TWO PRESSURE CONNECTIONS WILL BE MADE ADJACENT TO THE EXISTING VALVE VAULTS ON THE NORTHEAST AND SOUTHEAST CORNERS OF THE INTERSECTION AS INDICATED ON THE PLANS.
3. ONCE PROPOSED WATERMAIN IS INSTALLED, CONTRACTOR TO CLOSE VALVE AND HAVE OPERATING NUT REMOVED AND A PLATE, PROVIDED BY THE VILLAGE, INSTALLED ON TOP OF CLOSED VALVE.
4. CUT AND CAP EXISTING WATER MAIN AND INSTALL THRUST BLOCK.
5. INSTALL WATERMAIN QUALITY STORM SEWERS AS SHOWN ON PLANS.
6. INSTALL REQUIRED PATCHING.



USER NAME = DMcGinley	DESIGNED - MC	REVISED -
	DRAWN - MC	REVISED -
PLOT SCALE = 100.0000' / 1".	CHECKED - DB	REVISED -
PLOT DATE = 7/24/2019	DATE - 07/25/2019	REVISED -



VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE				MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GENERAL NOTES, STANDARDS, AND COMMITMENTS				4220		COOK	31	3
SCALE: NTS				SHEET 2 OF 4 SHEETS		STA. N/A TO STA. N/A		ILLINOIS
CONTRACT NO.								

PROJECT CONTACTS

1. THE VILLAGE OF BUFFALO GROVE
 MR. KYLE JOHNSON, PE
 51 RAUPP BOULEVARD
 BUFFALO GROVE, ILLINOIS 60089
 PH: 847-459-2523

2. BLA, INC.
 MR. MATTHEW CESARIO
 333 PIERCE ROAD, SUITE 200
 ITASCA, ILLINOIS 60143
 PH: 630-438-6400

3. METROPOLITAN WATER RECLAMATION DISTRICT
 100 EAST ERIE STREET
 CHICAGO, ILLINOIS 60611
 PH: 708-588-4055

4. ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
 1021 NORTH GRAND AVENUE EAST
 PO BOX 19276
 SPRINGFIELD, ILLINOIS 62794-9276
 PH: 217-782-3397

5. COOK COUNTY DEPARTMENT OF TRANS AND HIGHWAYS
 PERMITS DIVISION
 69 WEST WASHINGTON STREET, 24TH FLOOR
 CHICAGO, ILLINOIS 60602
 PH: 312-603-1670

6. VILLAGE OF ARLINGTON HEIGHTS
 MR. SCOTT SHIRLEY
 33 S. ARLINGTON HEIGHTS ROAD
 ARLINGTON HEIGHTS, ILLINOIS 60005
 PH: 847-368-5800

7. NICOR GAS
 MR. BRUCE KOPPANG
 1844 FERRY ROAD
 NAPERVILLE, ILLINOIS 60563
 PH: 630-388-2362

8. WIDE OPEN WEST (WOW)
 MR. PAUL FLINKOW
 1674 FRONTENAC ROAD
 NAPERVILLE, ILLINOIS 60563
 PH: 630-563-3139


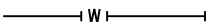







9. ATT
 MS. JANET AHERN
 1000 COMMERCE DRIVE
 OAK BROOK, ILLINOIS 60523

10.COMCAST
 MS. MARTHA GIERAS
 688 INDUSTRIAL DRIVE
 ELMHURST, ILLINOIS 60126
 PH: 630-600-6352

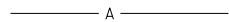

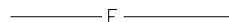




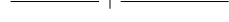
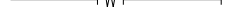







11.COMED
 MS. TINA LOSIANOWYCZ
 860 OAK CREEK DRIVE
 LOMBARD, ILLINOIS 60148
 PH: 630-396-8220

STANDARD SYMBOLS

PROPOSED LEGEND

-  PROPOSED SIGN
-  PROPOSED UNDERGROUND WATER MAIN
-  PROPOSED UNDERGROUND SANITARY SEWER (FORCEMAIN)
-  PROPOSED UNDERGROUND STORM SEWER
-  PROPOSED UNDERGROUND INLET
-  PROPOSED MANHOLE (STORM/WATER)
-  TREE PROTECTION
-  SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE (LOCATION AS DIRECTED BY ENGINEER)
-  CONCRETE WASHOUT (LOCATION AS DIRECTED BY ENGINEER)

EXISTING LEGEND

-  EXISTING AERIAL LINES
-  EXISTING CABLE TV (AERIAL OR UNDERGROUND)
-  EXISTING UNDERGROUND ELECTRIC
-  EXISTING UNDERGROUND FIBER OPTIC
-  EXISTING UNDERGROUND GAS
-  EXISTING UNDERGROUND SANITARY SEWER
-  EXISTING UNDERGROUND STORM SEWER
-  EXISTING UNDERGROUND TELEPHONE
-  EXISTING UNDERGROUND WATER MAIN
-  EXISTING OVERHEAD ELECTRIC
-  EXISTING INLET
-  EXISTING MANHOLES (STORM, WATER, SAN)
-  EXISTING POWER POLE
-  EXISTING TREE
-  EXISTING SIGN
-  EXISTING WETLAND LIMITS

REFERENCED SPECIFICATIONS

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:

- STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
- STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
- VILLAGE OF BUFFALO GROVE MUNICIPAL CODE;
- THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
- IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

NOTIFICATIONS

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
- THE VILLAGE OF BUFFALO GROVE ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

SANITARY SEWER

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.

- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY-26	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)		
	ASTM D-3350	ASTM D-3261, F-2620 (HEAT FUSION)
	ASTM D-3035	ASTM D-3212, F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

- | | | |
|--------------------------------|-------------|---------------|
| POLYPROPYLENE (PP) PIPE | | |
| 12-INCH TO 24-INCH DOUBLE WALL | ASTM F-2736 | D-3212, F-477 |
| 30-INCH TO 60-INCH TRIPLE WALL | ASTM F-2764 | D3212, F-477 |
- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE " " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
 - NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
 - ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
 - WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 - WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
 - WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
 - ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
 - ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
 - ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
 - ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
 - EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
 - A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.



USER NAME = DMcglinicy
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PLOT DATE = 7/24/2019
DATE - 07/25/2019

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REVISED -
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REVISED -



VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
MWRD - GENERAL NOTES

SCALE: NTS SHEET 4 OF 4 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	5
CONTRACT NO.				

ILLINOIS

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0005 STREET	UTILITY 0043 WATERMAIN	UTILITY 0043 SANITARY	UTILITY 0043 STORM
				1	TREE TRUNK PROTECTION	EACH	46
2	TREE ROOT PRUNING	EACH	30	30			
3	SUPPLEMENTAL WATERING	UNIT	15	15			
4	INLET FILTERS	EACH	18				18
5	GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	7	7			
6	TEMPORARY LANDSCAPE RESTORATION (SPECIAL)	SO YD	143	143			
7	TEMPORARY EROSION CONTROL SEEDING	SO YD	143	143			
8	(TEMPORARY) MULCH METHOD 3	SO YD	143	143			
9	GENERAL LANDSCAPE RESTORATION (SPECIAL)	SO YD	1430	1430			
10	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	194	194			
11	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	104	104			
12	PAVEMENT REMOVAL	SO YD	7757	7757			
13	DRIVEWAY PAVEMENT REMOVAL	SO YD	57	57			
14	COMBINATION CURB AND GUTTER REMOVAL	FOOT	850	850			
15	SIDEWALK REMOVAL	SO FT	2473	2473			
16	REMOVE AND STACK BRICK PAVER DRWY PVMT (SPECIAL)	SO FT	65	65			
17	SANITARY/STORM SEWER TO BE REMOVED, UP TO 15 INCHES (SPECIAL)	FOOT	248				248
18	STORM SEWER REMOVAL 24"	FOOT	141				141
19	REMOVING MANHOLES	EACH	1			1	
20	VALVE BOXES TO BE REMOVED	EACH	52		52		
21	FIRE HYDRANT TO BE REMOVED (SPECIAL)	EACH	6		6		
22	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	194	194			
23	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	388	388			

*SPECIALTY ITEM



USER NAME = DMcginney
 PLOT SCALE = 100.0000' / 1" = 10000000
 PLOT DATE = 7/24/2019

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 DRAWN - MC
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 DATE - 07/25/2019

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 REVISED -
 REVISED -
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VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
 SUMMARY OF QUANTITIES
 SCALE: NTS SHEET 1 OF 4 SHEETS STA. N/A TO STA. N/A

MUN. RTE. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 6
ILLINOIS			CONTRACT NO.	

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0005	UTILITY 0043	UTILITY 0043	UTILITY 0043
				STREET	WATERMAIN	SANITARY	STORM
24	PREPARATION OF BASE	SO YD	7757	7757			
• 25	TRENCH BACKFILL - COURSE AGGREGATE, CA-11 (SPECIAL)	CU YD	4423	4423			
• 26	TRENCH BACKFILL - FA-1 (SPECIAL)	CU YD	791	791			
• 27	AGGREGATE BASE COURSE, TYPE B (SPECIAL)	TON	2996	2996			
28	BITUMINOUS MATERIALS (TACK COAT)	POUND	5236	5236			
29	LONGITUDINAL JOINT SEALANT	FOOT	2122	2122			
30	PROTECTIVE COAT	SO YD	507	507			
31	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	57	57			
32	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	2279	2279			
• 33	DETECTABLE WARNINGS (SPECIAL)	SO FT	20	20			
• 34	DETECTABLE WARNINGS, FURNISHED BY OTHERS (SPECIAL)	SO FT	64	64			
35	CLASS B PATCHES, TYPE I, 9 INCH	SO YD	10	10			
36	CLASS B PATCHES, TYPE II, 9 INCH	SO YD	10	10			
37	CLASS B PATCHES, TYPE III, 9 INCH	SO YD	10	10			
38	CLASS B PATCHES, TYPE IV, 9 INCH	SO YD	252	252			
39	CLASS D PATCHES, TYPE I-IV, 4.5 INCH	SO YD	20	20			
• 40	COMBINATION CONCRETE CURB AND GUTTER, VARIES (SPECIAL)	FOOT	791	791			
41	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	59	59			
• 42	HOT-MIX ASPHALT BINDER COURSE (SPECIAL)	TON	1086	1086			
• 43	HOT-MIX ASPHALT SURFACE COURSE (SPECIAL)	TON	869	869			
• 44	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	15				15
• 45	VALVE VAULTS TO BE ABANDONED	EACH	4		4		
• 46	WATER VALVES 10"	EACH	10		10		

•SPECIALTY ITEM



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VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
 SUMMARY OF QUANTITIES
 SCALE: NTS SHEET 2 OF 4 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	7
			CONTRACT NO.	
ILLINOIS				

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	UTILITY	UTILITY	UTILITY
				0005 STREET	0043 WATERMAIN	0043 SANITARY	0043 STORM
47	WATER VALVES 12"	EACH	2		2		
48	VALVE VAULTS, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	16		16		
49	WATERMAIN, DUCTILE IRON PIPE, CLASS 52, 6" (SPECIAL)	FOOT	121		121		
50	WATERMAIN, DUCTILE IRON PIPE, CLASS 52, 8" (SPECIAL)	FOOT	38		38		
51	WATERMAIN, DUCTILE IRON PIPE, CLASS 52, 10" (SPECIAL)	FOOT	2322		2322		
52	WATERMAIN, DUCTILE IRON PIPE, CLASS 52, 12" (SPECIAL)	FOOT	130		130		
53	WATERMAIN, DUCTILE IRON PIPE, CLASS 52, INSULATED 10" (SPECIAL)	FOOT	50		50		
54	WATER SERVICE, TYPE K COPPER, 1" (SPECIAL)	FOOT	1302		1302		
55	WATER SERVICE, CONNECT EXISTING, COMPLETE (SPECIAL)	EACH	52		52		
56	WATER SERVICE, B-BOX FRAME & LID (SPECIAL)	EACH	52		52		
57	WATER SERVICE, TAP 1" COMPLETE (SPECIAL)	EACH	52		52		
58	PRESSURE CONNECTION, 6" X 6", COMPLETE (SPECIAL)	EACH	4		4		
59	PRESSURE CONNECTION, 8" X 8", COMPLETE (SPECIAL)	EACH	2		2		
60	FIRE HYDRANT ASSEMBLY, COMPLETE (SPECIAL)	EACH	8		8		
61	CUT AND CAP EXISTING WATER MAIN (SPECIAL)	EACH	5		5		
62	FILL AND ABANDON EXISTING WATER MAIN (SPECIAL)	CU YD	171		171		
63	CONNECTION TO EXISTING WATER MAIN (SPECIAL)	EACH	3		3		
64	MANHOLES, SANITARY, 4' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1			1	
65	INSPECTION MANHOLE, TYPE 1 FRAME, CLOSED LID	EACH	1			1	
66	FILL AND ABANDON EXISTING FORCE MAIN (SPECIAL)	CU YD	160			160	
67	FORCEMAIN, 10" PVC, C900, DR14 (SPECIAL)	FOOT	2167			2167	
68	STORM SEWERS TO BE CLEANED 12"	FOOT	50				50
69	DRAINAGE STRUCTURES TO BE CLEANED	EACH	10				10

*SPECIALTY ITEM



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VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
 SUMMARY OF QUANTITIES
 SCALE: NTS SHEET 3 OF 4 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	8
			CONTRACT NO.	
ILLINOIS				

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	UTILITY	UTILITY	UTILITY
				0005 STREET	0043 WATERMAIN	0043 SANITARY	0043 STORM
70	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	5				5
71	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	239				239
72	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 15"	FOOT	53				53
73	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 24"	FOOT	141				141
74	PIPE UNDERDRAINS 4"	FOOT	860				860
75	CONNECT NEW STM SWR TO EX STM STR (SPECIAL)	EACH	12				12
76	WASHOUT BASIN	L SUM	1	0.25	0.25	0.25	0.25
77	STABILIZED CONSTRUCTION ENTRANCE	SO YD	110	110			
78	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	168	168			
79	TEMPORARY PAVEMENT MARKING - 24"	FOOT	84	84			
80	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	84	84			
81	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	66	66			
82	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	105	105			
83	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	18	18			
84	CHANGEABLE MESSAGE SIGN	CAL DA	180	180			
85	TEMPORARY INFORMATION SIGNING	SO FT	180	180			
86	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
87	TRAFFIC CONTROL AND PROTECTION - BUFFALO GROVE ROAD, (SPECIAL)	L SUM	1	1			
88	REMOVE AND RESET MAILBOXES (SPECIAL)	EACH	28	28			
89	MOWING (SPECIAL)	EACH	10	10			
90	CONSTRUCTION LAYOUT	L SUM	1	0.25	0.25	0.25	0.25
91	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25

•SPECIALTY ITEM



USER NAME = DMcginley
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 7/24/2019

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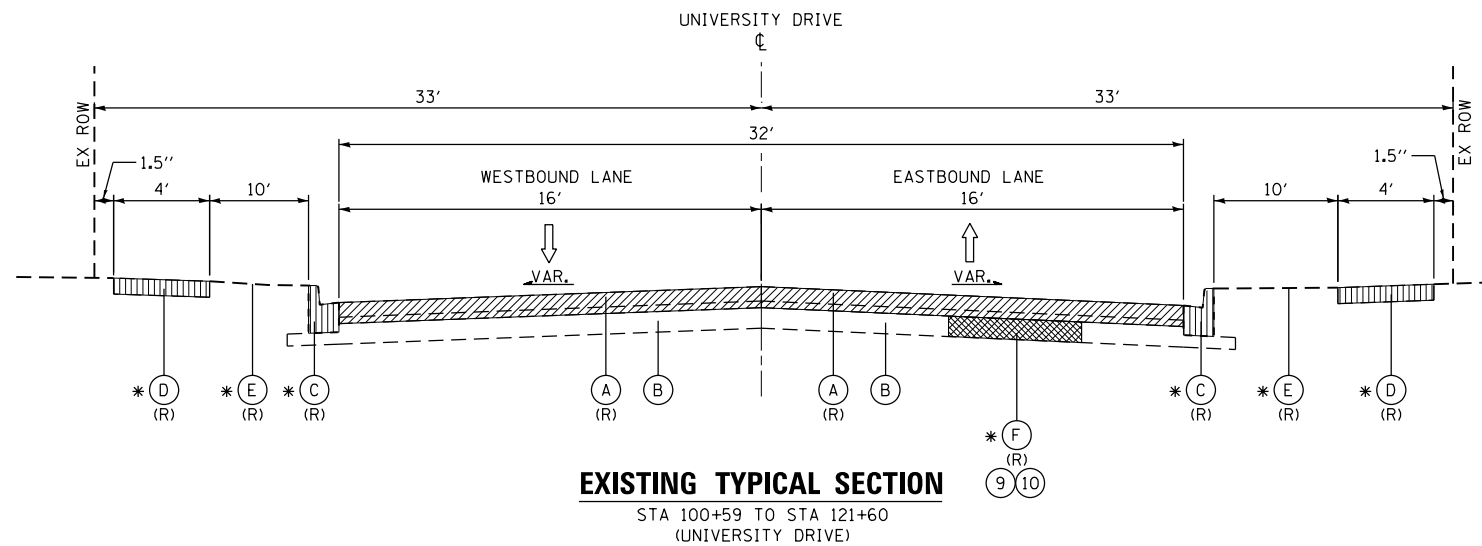
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VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
 SUMMARY OF QUANTITIES
 SCALE: NTS SHEET 4 OF 4 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	9
CONTRACT NO.				
ILLINOIS				



NOTE: PROJECT IMPROVEMENT
BEGINS AT STA: 100+22.00
PROJECT IMPROVEMENT
ENDS AT STA: 122+50.00

EXISTING LEGEND

- (A) EX. HOT-MIX ASPHALT SURFACE / BINDER COURSE, 5.5"-7.5" (R-PVMT REMOVAL)
- (B) EX. AGGREGATE BASE COURSE, 8.0"-17.75"
- * (C) EX. COMB. CONCRETE CURB & GUTTER, TY B-6.12
- * (D) EX. P.C.C. SIDEWALK
- * (E) EX. TOPSOIL
- * (F) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS

ITEMS WITH (R) ARE TO BE REMOVED AS SHOWN ON THE TYPICAL SECTIONS AND/OR ON THE PLAN SHEETS.

* ITEM TO BE REMOVED AND REPLACED AT LOCATIONS INDICATED IN THE PLANS AND/OR DIRECTED BY THE ENGINEER

HOT-MIX ASPHALT PAVEMENT REMOVAL, 4.5"

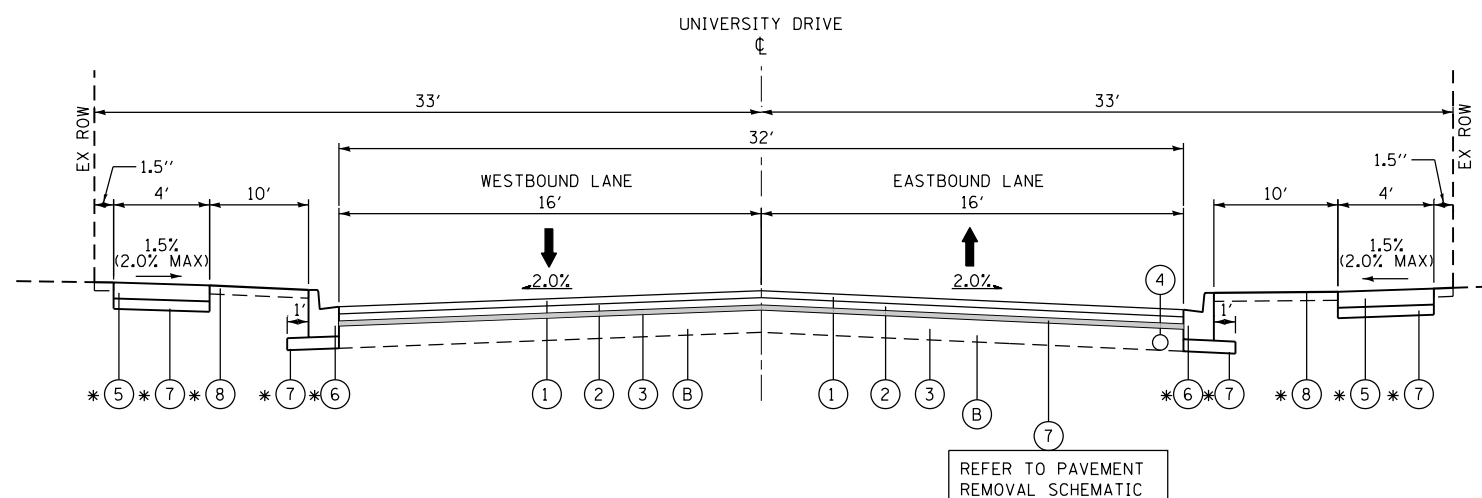
COMBINATION CURB AND GUTTER REMOVAL / SIDEWALK REMOVAL (AS SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER)

PAVEMENT REMOVAL SHALL CONSIST OF REMOVING ALL EXISTING HMA DOWN TO EXISTING STONE

PROPOSED LEGEND

- (1) PR. HMA SURFACE COURSE, MIX "D", N50, 2.0"
- (2) PR. HMA BINDER COURSE (MACHINE METHOD), IL-19.0, N50, 2.5"
- (3) PR. PREPARATION OF BASE
- (4) PR. PIPE UNDERDRAIN, 4"
- * (5) PR. PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
- * (6) PR. COMBINATION CONCRETE CURB AND GUTTER, VARIES (SPECIAL)
- * (7) PR. AGGREGATE BASE COURSE, TY B (SPECIAL) - VARIABLE
- * (8) PR. GENERAL LANDSCAPE RESTORATION (SPECIAL)
- * (9) PR. AGGREGATE SUBGRADE IMPROVEMENTS (CY)
- * (10) PR. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SY)

* ITEM TO BE REMOVED AND REPLACED AT LOCATIONS INDICATED IN THE PLANS AND/OR DIRECTED BY THE ENGINEER



REFER TO PAVEMENT
REMOVAL SCHEMATIC

THE CONTRACTOR SHALL MILL ROADWAY PAVEMENT PRIOR TO PAVEMENT PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
ROADWAY PAVEMENT (MURPHY MIX)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2.0"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE (MACHINE METHOD), IL-19.0, N50 (IL 9.5 mm), 2.5"	4% @ 50 GYR
PAVEMENT PATCHING (MURPHY MIX)	
CLASS D PATCHES, HOT-MIX ASPHALT BINDER (IL 19 mm), N70; 4.5"	4% @ 70 GYR

NOTES:

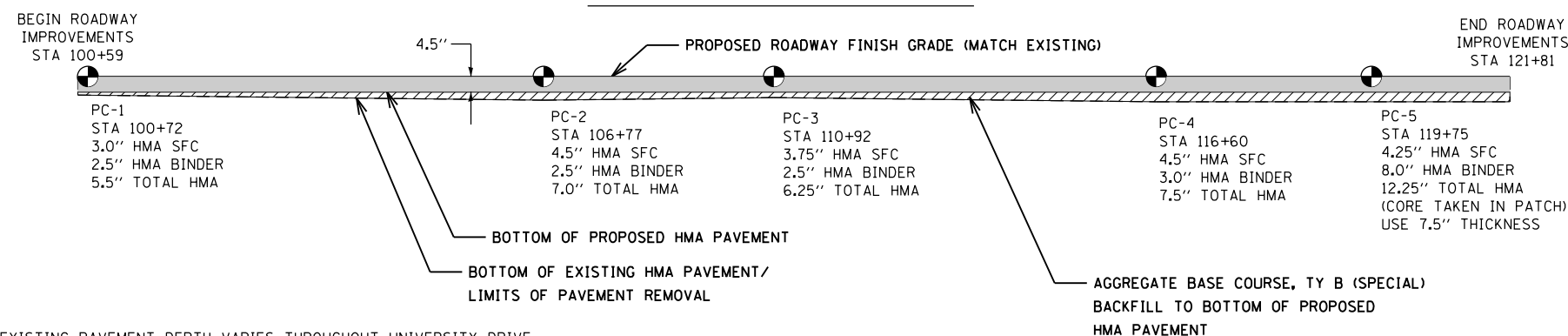
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 58-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER THE SURFACE LIFT, PER BDE SPECIAL PROVISION

PAVEMENT REMOVAL SCHEMATIC



NOTE: EXISTING PAVEMENT DEPTH VARIES THROUGHOUT UNIVERSITY DRIVE.
THE CONTRACTOR SHALL REFER TO THE CORE REPORT FOR ASSISTANCE



USER NAME = DMcGinley	DESIGNED - MC	REVISED -
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PLOT DATE = 7/24/2019	DATE - 07/25/2019	REVISED -



VILLAGE OF BUFFALO GROVE

**UNIVERSITY DRIVE
TYPICAL SECTIONS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. 100+22.00 TO STA. 122+50.00

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	10
CONTRACT NO.				

1 INLET FILTERS		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+43.60	21.94' LT	1
100+45.32	21.13' RT	1
104+57.80	16.87' LT	1
104+64.87	16.88' RT	1
111+08.10	21.60' LT	1
111+28.42	17.22' RT	1
114+07.66	17.53' RT	1
115+74.95	26.83' RT	1
116+15.94	23.35' RT	1
116+18.25	16.62' LT	1
117+35.55	16.96' RT	1
118+76.72	21.33' RT	1
119+30.47	19.94' RT	1
121+59.17	18.30' LT	1
121+71.40	21.78' RT	1
121+89.74	57.55' RT	1
122+14.42	55.40' RT	1
122+20.18	20.86' RT	1
TOTAL#		18

5 PROPOSED ROADWAY PAVEMENT					
STATION		OFFSET	PREPARATION OF	HMA SURFACE	HMA BINDER COURSE
FROM	TO	(LT / RT)	BASE (SQ YD)	COURSE - MURPHY MIX (TON) (SPECIAL)	(MM), IL-19.0, N50 (TON) (SPECIAL)
UNIVERSITY DR					
100+59	105+00	LT / RT	1,541	173	216
105+00	111+00	LT / RT	2,117	237	296
111+00	117+00	LT / RT	2,242	251	314
117+00	121+60	LT / RT	1,857	208	260
TOTAL#			7,757	869	1,086

11 SANITARY/STORM SEWER TO BE REMOVED, UP TO 15 INCHES (SPECIAL)					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	MATERIAL	QUANTITY (FT)
100+45.32	21.13' RT	100+39.58	2.00' RT	RCP	20
104+61.75	2.00' RT	104+64.87	16.88' RT	RCP	15
104+64.87	16.88' RT	104+94.76	19.43' RT	RCP	30
111+20.53	2.00' RT	111+28.36	17.11' RT	RCP	17
111+28.36	17.11' RT	111+29.90	22.51' RT	RCP	5
114+14.07	22.00' RT	114+68.25	17.53' RT	RCP	53
116+17.29	2.00' RT	116+17.29	23.36' RT	RCP	21
117+35.73	22.00' RT	117+35.51	17.00' RT	RCP	5
114+68.25	17.53' RT	115+00.50	22.00' RT	RCP	33
115+96.16	25.32' RT	116+17.29	23.11' RT	RCP	20
122+13.62	49.22' LT	122+15.03	34.24' LT	RCP	15
122+18.92	7.00' RT	122+20.18	20.86' RT	RCP	14
TOTAL#					248

6 COMBINATION CONCRETE CURB AND GUTTER, VARIES			
UNIVERSITY DR			
STATION	OFFSET	LENGTH	
FROM	TO	(LT / RT)	(FOOT)
100+30	105+00	LT / RT	127
105+00	111+00	LT / RT	128
111+00	117+00	LT / RT	207
117+00	122+48	LT / RT	329
TOTAL#			791

7 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24			
UNIVERSITY DR			
STATION	OFFSET	LENGTH	
FROM	TO	(LT / RT)	(FOOT)
100+30	105+00	LT / RT	59
105+00	111+00	LT / RT	0
111+00	117+00	LT / RT	0
117+00	122+48	LT / RT	0
TOTAL#			59

12 STORM SEWER REMOVAL 24"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	MATERIAL	QUANTITY (FT)
116+86.09	22.00' RT	117+35.67	17.04' RT	RCP	49
117+35.67	17.04' RT	117+74.00	20.22' RT	RCP	38
118+76.72	21.33' RT	119+30.53	19.94' RT	RCP	54
TOTAL#					141

2 PCC DRIVEWAYS					
STATION	ADDRESS	OFFSET (LT / RT)	PCC DRIVEWAY PAVEMENT, 6" (SY)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)	REMOVE & STACK BRICK PAVER DRWY PVMT (SQ FT) (SPECIAL)
UNIVERSITY DR					
101+08	22	LT	10	10	0
103+35	64	LT	6	6	0
104+97	86	LT	7	7	0
107+68	128	LT	11	11	0
109+53	160	LT	0	0	65
113+15	222	LT	1	1	0
114+04	232	LT	11	11	0
114+49	244	RT	11	11	0
TOTAL#			57	57	65

8 PAVEMENT REMOVAL					
UNIVERSITY DR					
STATION	OFFSET	AREA	AREA		
FROM	TO	(LT / RT)	(SQ FEET)	(SQ YARD)	
100+59	105+00	LT / RT	13,868	1,541	
105+00	111+00	LT / RT	19,050	2,117	
111+00	117+00	LT / RT	20,180	2,242	
117+00	121+60	LT / RT	16,709	1,857	
TOTAL#			7,757		

13 REMOVING MANHOLES		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+26.23	12.50' LT	1
TOTAL#		1

14 FIRE HYDRANTS TO BE REMOVED		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
101+30.46	21.02' RT	1
104+67.16	21.66' RT	1
107+97.98	22.01' RT	1
112+00.70	21.79' RT	1
115+58.94	22.69' RT	1
119+41.66	22.03' RT	1
TOTAL#		6

3 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH			
STATION		PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SQ FT)	SIDEWALK REMOVAL (SQ FT)
FROM	TO		
UNIVERSITY DR			
100+59	105+00	550	550
105+00	111+00	252	252
111+00	117+00	477	552
117+00	121+60	1,000	1,119
TOTAL#		2,279	2,473

9 AGGREGATE BASE COURSE TY B						
STATION		LOCATION				
FROM	TO	COMB. CONCRETE CURB & GUTTER (TON)	PCC DRIVEWAYS (TON)	PCC SIDEWALKS (TON)	TRENCH ROAD CAPPING BACKFILL (TON)	ROAD BASE (TON)
UNIVERSITY DR						
100+59	105+00	11	7	7	452	148
105+00	111+00	8	4	6	566	129
111+00	117+00	13	8	12	562	204
117+00	121+60	20	0	26	568	245
TOTAL#		52	19	51	2,148	726

16 VALVE VAULTS TO BE ABANDONED		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+42.58	25.67' RT	1
100+52.15	24.53' RT	1
107+30.54	26.20' RT	1
117+06.00	25.11' RT	1
TOTAL#		1

4 COMBINATION CURB AND GUTTER REMOVAL			
UNIVERSITY DR			
STATION	OFFSET	LENGTH	
FROM	TO	(LT / RT)	(FOOT)
100+59	105+00	LT / RT	186
105+00	111+00	LT / RT	128
111+00	117+00	LT / RT	207
117+00	121+60	LT / RT	329
TOTAL#			850

10 TRENCH BACKFILL			
STATION		TRENCH BACKFILL - CA-11 (CY) (SPECIAL)	TRENCH BACKFILL - FA-1 (CY) (SPECIAL)
FROM	TO		
UNIVERSITY DR			
100+59	105+00	973	219
105+00	111+00	1,170	131
111+00	117+00	1,178	156
117+00	121+60	1,102	285
TOTAL#		4,423	791

15 FRAMES AND LIDS TO BE ADJUSTED		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+45.32	21.13' RT	1
104+64.87	16.88' RT	1
111+28.42	17.22' RT	1
111+38.02	5.27' RT	1
114+68.05	17.53' RT	1
115+75.09	26.81' RT	1
116+16.57	23.34' RT	1
117+05.31	16.97' RT	1
118+76.74	21.33' RT	1
119+30.47	19.94' RT	1
121+59.17	18.30' LT	1
121+69.28	23.54' LT	1
121+71.40	21.78' RT	1
121+87.71	22.42' LT	1
122+20.18	20.87' RT	1
TOTAL#		15



USER NAME = DMcGinley
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 7/24/2019

DESIGNED - MC
 DRAWN - MC
 CHECKED - DB
 DATE - 07/25/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -



VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
 SCHEDULE OF QUANTITIES
 SCALE: NTS SHEET 1 OF 3 SHEETS STA. N/A TO STA. N/A

MUN. R.E. 4220 SECTION COUNTY COOK TOTAL SHEETS 31 SHEET NO. 11 CONTRACT NO. ILLINOIS

17 WATER VALVES 10"		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+77.40	12.00' RT	1
101+24.17	26.08' RT	1
108+15.09	12.00' RT	1
115+69.89	12.00' RT	1
116+03.73	31.97' RT	1
119+13.43	35.64' RT	1
121+57.64	10.00' RT	1
122+03.78	28.26' LT	1
122+08.28	30.65' RT	1
122+34.05	10.00' RT	1
TOTAL#		10

18 WATER VALVES 12"		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+35.08	35.41' LT	1
100+37.06	82.57' RT	1
TOTAL#		2

24 WATERMAIN, DUCTILE IRON PIPE, CL52, 10"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	MATERIAL	QUANTITY (FT)
100+35.88	12.00' RT	105+00.00	12.00' RT	DI	464
101+24.08	12.00' RT	101+24.08	25.90' RT	DI	26
105+00.00	12.00' RT	111+00.00	12.00' RT	DI	600
111+00.00	12.00' RT	117+00.00	10.75' RT	DI	600
116+10.11	11+37' RT	116+04.82	34.67' RT	DI	24
117+00.00	10.75' RT	122+40.82	10.00' RT	DI	541
119+13.43	10.00' RT	119+13.10	40.45' RT	DI	26
122+03.40	31.35' LT	122+06.53	10.00' RT	DI	41
TOTAL#					2,322

32 EXIST. WATER SERVICE B-BOX				
UNIVERSITY DR				
ID NUMBER	ADDRESS	STATION	OFFSET (LT / RT)	QUANTITY (EA)
B13-021377417	23	100+89.55	26.94' RT	1
B13-021382670	22	101+14.90	26.03' LT	1
B13-021379295	33	101+63.95	25.95' RT	1
B13-021379406	34	101+68.68	25.07' LT	1
B13-021380709	45	102+32.56	25.89' RT	1
B13-021380575	44	102+35.28	24.12' LT	1
B13-021381701	54	102+92.44	25.11' LT	1
B13-021381798	55	102+98.43	24.81' RT	1
B13-021377151	64	103+41.82	25.96' LT	1
B13-021382768	65	103+59.02	26.16' RT	1
B13-021383397	74	104+30.00	25.79' LT	1
B13-021383604	77	104+33.23	26.05' RT	1
B13-021384285	86	104+98.80	24.92' LT	1
B13-021384358	87	105+00.40	26.15' RT	1
B13-021385181	97	105+53.04	25.03' RT	1
B13-021385126	96	105+67.62	25.13' LT	1
B13-021373789	108	106+29.68	24.75' LT	1
B13-021373743	107	106+32.24	26.40' RT	1
B13-021374446	118	106+95.89	22.73' LT	1
B13-021374495	119	106+97.54	26.04' RT	1
B13-021374909	128	107+64.82	22.85' LT	1
B13-021374877	127	107+65.45	24.06' RT	1
B13-021375418	138	108+23.10	21.62' LT	1
B13-021375446	139	108+31.32	25.54' RT	1
B13-021375794	148	108+92.87	23.53' LT	1
B13-021375811	149	108+98.15	23.38' RT	1
B13-021376210	160	109+60.19	22.52' LT	1
B13-021376179	159	109+65.91	23.56' RT	1
B13-021376345	171	110+30.60	20.00' RT	1
B13-021376438	183	110+99.75	22.65' RT	1
B13-021376539	193	111+61.28	23.75' RT	1
B13-021376798	205	112+31.00	22.72' RT	1
B13-021376973	212	112+60.80	21.59' LT	1
B13-021377040	215	112+95.66	21.81' RT	1
B14-021377247	222	113+32.12	21.20' LT	1
B14-021377310	225	113+67.08	22.70' RT	1
B14-021377497	232	114+04.36	21.73' LT	1
B14-021377581	237	114+36.05	24.64' RT	1
B14-021377773	244	114+63.28	23.39' LT	1
B14-021378071	254	115+27.64	24.66' LT	1
B14-021374413	1172	115+54.96	23.13' RT	1
B14-021378214	264	115+64.21	26.17' RT	1
B14-021378335	274	116+56.13	25.31' LT	1
B14-021378514	284	117+14.39	24.22' LT	1
B14-021378352	275	117+14.97	26.34' RT	1
B14-021378744	294	117+79.73	24.83' LT	1
B14-021378666	291	118+18.36	22.21' RT	1
B14-021378926	302	118+41.81	23.10' LT	1
B14-021379070	312	119+09.98	24.28' LT	1
B14-021379187	320	119+80.92	23.28' LT	1
B14-021379309	330	120+37.71	23.17' LT	1
B14-021374484	1188	121+08.67	22.25' LT	1
TOTAL#				52

19 VALVE VAULTS, TYPE A, 5'-DIA, TY 1 FRAME, CL		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+35.08	35.41' LT	1
100+37.06	82.57' RT	1
100+77.40	12.00' RT	1
101+24.17	26.08' RT	1
101+30.00	37.90' RT	1
108+15.09	12.00' RT	1
115+69.89	12.00' RT	1
116+03.73	31.97' RT	1
116+17.54	43.39' RT	1
119+13.43	35.64' RT	1
119+33.05	45.45' RT	1
121+57.64	10.00' RT	1
122+03.78	28.26' LT	1
122+16.97	40.01' LT	1
122+34.05	10.00' RT	1
122+42.27	20.50' RT	1
TOTAL#		16

20 PRESSURE CONNECTION 6"x6"		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
116+18.00	47.52' RT	1
119+33.38	49.91' RT	1
122+23.65	43.80' RT	1
122+43.79	20.49' RT	1
TOTAL#		4

21 PRESSURE CONNECTION 8"x8"		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
101+30.00	37.90' RT	1
122+16.61	44.52' LT	1
TOTAL#		2

25 WATERMAIN, DUCTILE IRON PIPE, CL52, 12"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	MATERIAL	QUANTITY (FT)
100+29.93	45.43' LT	100+37.06	82.57' RT	DI	130
TOTAL#					130

26 WATER SERVICE, TYPE K COPPER, 1"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	QUANTITY (FT)	
100+59	LT / RT	105+00	LT / RT	356	
105+00	LT / RT	111+00	LT / RT	367	
111+00	LT / RT	117+00	LT / RT	316	
117+00	LT / RT	122+00	LT / RT	263	
TOTAL#					1,302

27 FIRE HYDRANT ASSEMBLY, COMPLETE		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+30.03	60.88' RT	1
100+39.64	78.42' RT	1
101+15.14	21.48' RT	1
104+75.14	21.49' RT	1
108+05.14	20.94' RT	1
111+95.14	20.94' RT	1
115+03.29	20.08' RT	1
119+45.00	22.84' RT	1
TOTAL#		8

28 CUT & CAP EXISTING WATERMAIN		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+29.94	41.31' LT	1
100+32.79	67.23' RT	1
116+19.96	36.05' RT	1
119+32.43	37.00' RT	1
122+17.60	32.00' LT	1
TOTAL#		5

22 WATERMAIN, DUCTILE IRON PIPE, CL52, 6"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	MATERIAL	QUANTITY (FT)
100+30.03	60.88' RT	100+30.03	68.93' RT	DI	8
101+15.05	12.00' RT	101+15.05	19.06' RT	DI	7
104+75.09	12.00' RT	104+75.09	19.06' RT	DI	7
108+05.09	12.00' RT	108+05.09	19.06' RT	DI	7
111+95.09	12.00' RT	111+95.09	19.20' RT	DI	7
115+51.07	11.55' RT	115+51.07	18.65' RT	DI	7
116+04.82	34.67' RT	116+17.54	43.39' RT	DI	17
119+13.10	40.45' RT	119+33.05	45.45' RT	DI	22
119+45.00	10.00' RT	119+45.00	21.12' RT	DI	11
122+08.47	35.79' RT	123+23.10	36.65' RT	DI	16
122+40.82	10.00' RT	122+43.79	20.49' RT	DI	12
TOTAL#					121

29 CONNECTION TO EXISTING WATERMAIN		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+29.93	45.43' LT	1
111+38.02	6.77' RT	1
122+22.00	24.97' RT	1
TOTAL#		3

30 MANHOLES, SANITARY, 4'-DIA, TY 1 FRAME, CL		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+26.23	12.50' LT	1
TOTAL#		1

23 WATERMAIN, DUCTILE IRON PIPE, CL52, 8"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	MATERIAL	QUANTITY (FT)
100+22.12	68.93' RT	100+36.83	68.93' RT	DI	15
111+38.10	12.00' RT	111+38.10	5.27' RT	DI	6
122+03.40	31.35' LT	122+16.97	39.95' LT	DI	17
122+21.04	10.00' RT	122+21.95	24.96' RT	DI	15
TOTAL#					38

31 FORCEMAIN INSPECTION MANHOLE		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
112+44.14	6.00' LT	1
TOTAL#		1

33 FORCEMAIN, 10" PVC, C900, DR14				
UNIVERSITY DR				
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	QUANTITY (FT)
100+26.23	12.50' LT	105+00	6.00' LT	476
105+00	6.00' LT	111+00	6.00' LT	600
111+00	6.00' LT	117+00	6.00' LT	600
117+00	6.00' LT	121+85.05	0.50' LT	491
TOTAL#				2,167



USER NAME = DMcGlinchy
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 7/24/2019

DESIGNED - MC
 DRAWN - MC
 CHECKED - DB
 DATE - 07/25/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -



VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
 SCHEDULE OF QUANTITIES
 SCALE: NTS SHEET 2 OF 3 SHEETS STA. N/A TO STA. N/A

MUN. R.T.E. 4220 SECTION COOK COUNTY ILLINOIS
 TOTAL SHEETS 31 SHEET NO. 12
 CONTRACT NO.

34 STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	MATERIAL	QUANTITY (FT)
100+45.60	21.94' LT	100+23.72	19.86' LT	WM QUALITY	20
100+45.32	21.13' RT	100+32.74	20.80' LT	WM QUALITY	44
104+61.75	2.00' RT	104+64.87	16.88' RT	WM QUALITY	15
104+64.87	16.88' RT	104+94.76	19.43' RT	WM QUALITY	30
111+20.53	2.00' RT	111+28.36	17.11' RT	WM QUALITY	17
111+28.36	17.11' RT	111+29.90	22.51' RT	WM QUALITY	5
114+01.36	22.00' RT	114+68.25	17.53' RT	WM QUALITY	53
116+17.29	2.00' RT	116+17.29	23.36' RT	WM QUALITY	21
117+35.73	22.00' RT	117+35.51	17.00' RT	WM QUALITY	5
122+13.62	49.22' LT	122+15.03	34.24' LT	WM QUALITY	15
122+18.92	7.00' RT	122+20.18	20.86' RT	WM QUALITY	14
TOTAL:					239

35 STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 15"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	MATERIAL	QUANTITY (FT)
114+68.25	17.53' RT	115+00.50	22.00' RT	WM QUALITY	33
115+96.16	25.32' RT	116+17.29	23.11' RT	WM QUALITY	20
TOTAL:					53

36 STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 24"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	MATERIAL	QUANTITY (FT)
116+86.09	22.00' RT	117+35.67	17.04' RT	WM QUALITY	49
117+35.67	17.04' RT	117+74.00	20.22' RT	WM QUALITY	38
118+76.72	21.33' RT	119+30.53	19.94' RT	WM QUALITY	54
TOTAL:					141

37 PIPE UNDERDRAINS 4"				
UNIVERSITY DR				
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	QUANTITY (FT)
104+13.00	15.00' RT	105+16.75	15.00' RT	105
104+05.93	15.00' LT	105+09.69	15.00' LT	105
110+76.54	15.00' RT	111+80.30	15.00' RT	105
114+15.91	15.00' RT	115+19.31	15.00' RT	105
115+24.33	15.00' RT	115+83.65	41.18' RT	70
116+05.67	44.21' RT	116+66.70	15.00' RT	82
116+84.86	15.00' RT	117+86.62	15.00' RT	105
118+26.36	15.00' RT	118+99.12	53.27' RT	95
119+20.66	49.91' RT	119+81.12	15.00' RT	88
TOTAL:				860

38 CONNECT NEW STM SWR TO EX STM STR		
UNIVERSITY DR		
STATION	OFFSET (LT / RT)	QUANTITY (EA)
100+45.60	21.94' LT	1
100+45.32	21.13' RT	1
105+27.28	22.21' RT	1
111+29.89	22.51' RT	1
114+68.67	17.53' RT	1
116+16.66	23.34' RT	1
117+35.35	17.09' RT	1
118+76.72	21.33' RT	1
119+30.53	19.94' RT	1
121+71.40	21.78' RT	1
122+20.18	20.86' RT	1
122+20.60	55.08' RT	1
TOTAL:		12

39 THERMOPLASTIC PAVEMENT MARKING - LINE 6"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	TYPE	QUANTITY (FT)
121+61.51	18.36' LT	121+68.70	19.48' RT	CROSSWALK	39
121+65.81	21.85' LT	121+74.37	22.87' RT	CROSSWALK	45
TOTAL:					84

40 THERMOPLASTIC PAVEMENT MARKING - LINE 24"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	TYPE	QUANTITY (FT)
100+49.72	CL	100+49.72	17.65' LT	STOP BAR	18
110+81.65	CL	110+81.65	16.21' RT	STOP BAR	16
111+83.61	CL	111+83.61	15.54' LT	STOP BAR	16
121+52.04	CL	121+52.04	15.93' RT	STOP BAR	16
TOTAL:					66

41 POLYUREA PAVEMENT MARKING TYPE I - LINE 6"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	TYPE	QUANTITY (FT)
100+31.97	28.75' LT	100+32.56	29.03' RT	CROSSWALK	58
100+37.11	23.91' LT	100+38.11	23.56' RT	CROSSWALK	47
TOTAL:					105

42 POLYUREA PAVEMENT MARKING TYPE I - LINE 24"					
UNIVERSITY DR					
STATION	OFFSET (LT / RT)	STATION	OFFSET (LT / RT)	TYPE	QUANTITY (FT)
100+49.72	CL	100+79.72	17.65' LT	STOPBAR	18
TOTAL:					18

43 GENERAL LANDSCAPE RESTORATION		
UNIVERSITY DR		
STATION	STATION	QUANTITY (SY)
100+00	105+00	341
105+00	111+00	278
111+00	116+00	360
116+00	122+50	451
TOTAL:		1,430



USER NAME = DMcGinley
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 7/24/2019

DESIGNED - MC
 DRAWN - MC
 CHECKED - DB
 DATE - 07/25/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

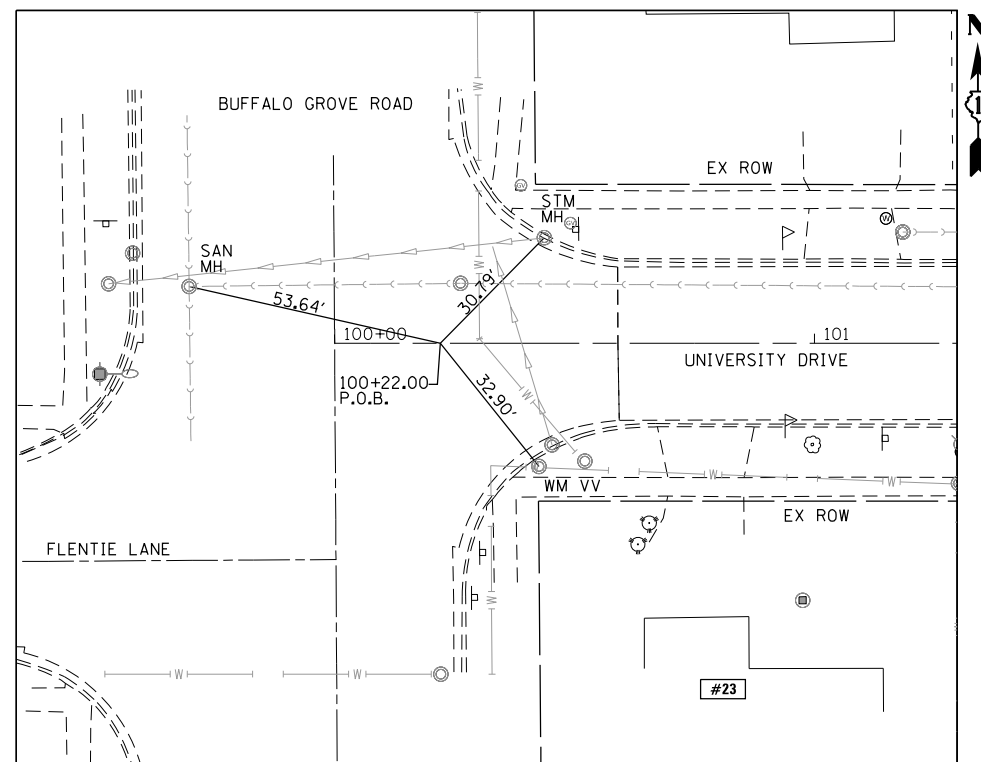


VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
 SCHEDULE OF QUANTITIES
 SCALE: NTS SHEET 3 OF 3 SHEETS STA. N/A TO STA. N/A

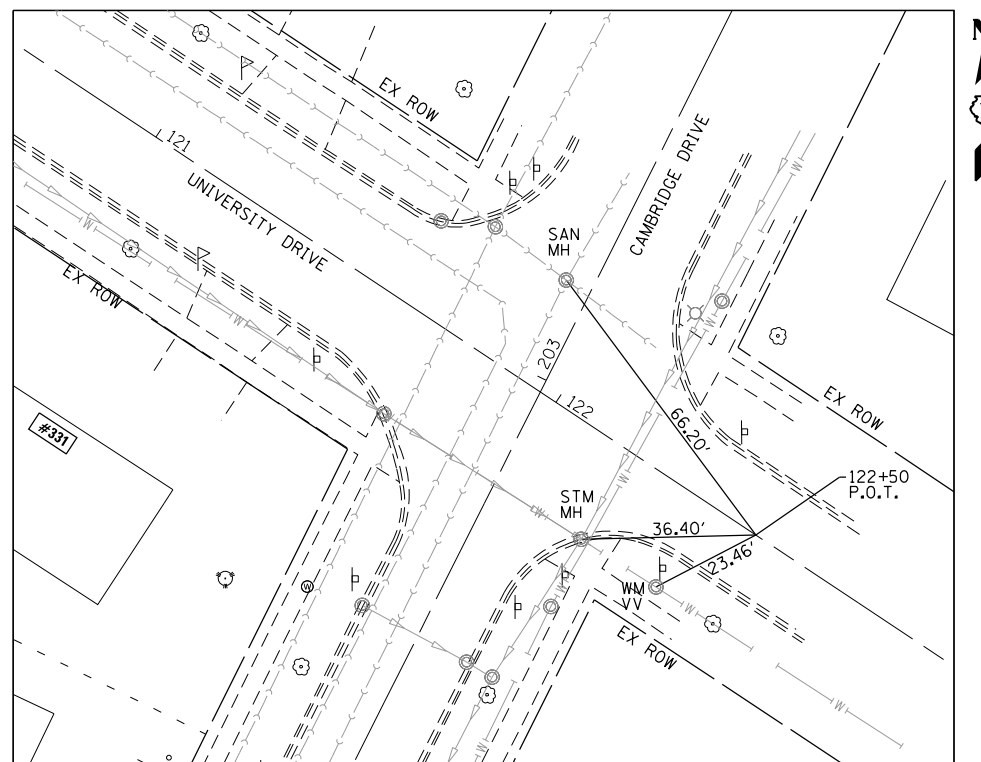
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	13
CONTRACT NO.				

ILLINOIS



ALIGNMENT TIE (P.O.B.)
 STA: 100+22.00
 UNIVERSITY DRIVE
 N: 1991520.6067
 E: 1085267.1526

SCALE: 1"=20'



ALIGNMENT TIE (P.O.T.)
 STA: 122+50.00
 UNIVERSITY DRIVE
 N: 1991144.7022
 E: 1087396.8672

SCALE: 1"=20'

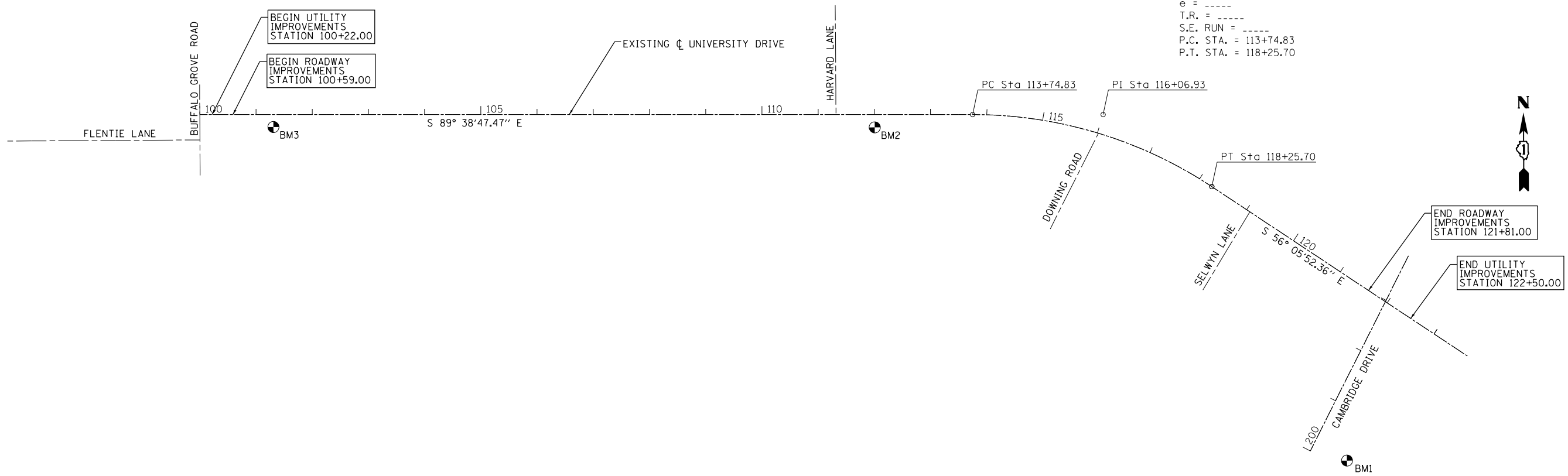
COORDINATE DATA TABLE			
UNIVERSITY DRIVE			
STATION	ELEMENT TYPE	NORTHING	EASTING
100+22.00	P. O. B.	1991520.6067	1085267.1526
110+00.00	-	1991514.5731	1086245.1340
113+74.83	P. C.	1991512.2606	1086619.9613
116+06.93	P. I.	1991510.8286	1086852.0571
118+25.70	P. T.	1991381.3688	1087044.6983
120+00.00	-	1991284.1461	1087189.3693
122+50.00	P. O. T.	1991144.7022	1087396.8672

BENCHMARK #1: SOUTHERLY BOLT ON FIRE HYDRANT AT SOUTH END OF CUL-DE-SAC ON CAMBRIDGE COURT
 ELEV. 672.94

BENCHMARK #2: SOUTHEAST BOLT ON 4TH FIRE HYDRANT EAST OF BUFFALO GROVE ROAD ON SOUTH SIDE OF UNIVERSITY DRIVE.
 ELEV. 676.62

BENCHMARK #3: SOUTHEAST BOLT ON 1ST FIRE HYDRANT EAST OF BUFFALO GROVE ROAD ON SOUTH SIDE OF UNIVERSITY DRIVE.
 ELEV. 691.87

EXIST. CURVE UNIVERSITY
 PI STA. = 116+06.93
 $\Delta = 33^\circ 32' 55''$ (RT)
 $D = 7^\circ 26' 28''$
 $R = 770.00'$
 $T = 232.10'$
 $L = 450.86'$
 $E = 34.22'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 P.C. STA. = 113+74.83
 P.T. STA. = 118+25.70



USER NAME = DMcginley
 PLOT SCALE = 200.0000' / in.
 PLOT DATE = 7/24/2019

DESIGNED - MC
 DRAWN - MC
 CHECKED - DB
 DATE - 07/25/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -



VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
 ALIGNMENT, TIES, AND BENCHMARK
 SCALE: 1"=100' SHEET 1 OF 1 SHEETS STA. TO STA.

MUN. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	14

CONTRACT NO. ILLINOIS

MAINTENANCE OF TRAFFIC – GENERAL NOTES






- ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. TEMPORARY TRAFFIC SIGNALS SHALL BE CONSTRUCTED AT THE INTERSECTIONS NOTED IN THE PLANS. TEMPORARY INTERSECTION SIGNALIZATION SHALL BE ADJUSTED TO ACCOMMODATE THE VARIOUS STAGES OF CONSTRUCTION SHOWN. THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT.
- TAPER LENGTH FOR TRAFFIC CONTROL DEVICES IS DEFINED BY:

$$L = \frac{W \times S^2}{60}$$








THE TAPER IS DEFINED AS FOLLOWS:
 L = TAPER LENGTH IN FEET
 W = WIDTH OF OFFSET IN FEET
 S = POSTED SPEED IN MPH.
- THE FOLLOWING TEMPORARY PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 703 "WORK ZONE PAVEMENT MARKINGS" OF STANDARD SPECIFICATIONS AT ALL THE FOLLOWING LOCATIONS IN EACH OF THE VARIOUS STAGES OF CONSTRUCTION:
 - 4 IN WHITE EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE)
 - 6 IN WHITE LANE LINE - STORAGE AREA OF LEFT - TURN BAY
 - 6 IN WHITE SKIP DASH (6 FT SKIP - 2 FT DASH) LEFT TURN
 - 24 IN WHITE STOP BAR - ALL LOCATIONS
 - WHITE LETTERS AND SYMBOLS - TURN LANES
- IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE INFORMATIONAL SIGNS ON TEMPORARY SUPPORTS FOR DRIVEWAYS. THESE SIGNS SHALL BE WHITE ON GREEN IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES. ALSO, "CAUTION NEW LANES OPEN STOP HERE" SIGNS WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AT THE APPROPRIATE LOCATIONS. THIS WORK WILL BE PER DISTRICT DETAIL TC-26 INCLUDED IN THE VARIOUS ITEMS FOR "TEMPORARY INFORMATION SIGNING".
- PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED AND ITS PLACEMENT SHALL BE DIRECTED BY THE ENGINEER AND IT SHALL BE PAID FOR AS "CHANGEABLE MESSAGE SIGN".
- THE CONTRACTOR WILL GIVE THE ENGINEER AT LEAST 10 DAYS NOTICE PRIOR TO ANY TRAFFIC STAGING CHANGES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COVERING OR REMOVING ANY EXISTING ROADWAY SIGNAGE THAT CONFLICTS WITH THE STAGED TRAFFIC PATTERN. TEMPORARY TRAFFIC CONTROL BARRIERS AND SIGNAGE SHALL BE IN PLACE PRIOR TO TRAFFIC STAGING.
- PEDESTRIAN AND BICYCLE ACCESS MUST BE MAINTAINED ON ALL EXISTING FACILITIES AND ON NEW FACILITIES AS THEY BECOME AVAILABLE FOR PEDESTRIAN AND BICYCLE TRAFFIC.
- ARROW BOARDS SHALL HAVE SOLAR POWER CAPABILITY.
- A MONO-DIRECTIONAL FLASHING AMBER BEACON SHALL BE MOUNTED TO THE FIRST TWO WARNING SIGNS ON EACH APPROACH DURING HOURS OF DARKNESS.
- STOP SIGNS AND STOP BARS ARE TO BE MAINTAINED FOR UNSIGNALIZED SIDE STREETS AND DRIVEWAYS THROUGH ALL CONSTRUCTION STAGES.
- THE CONTRACTOR SHALL INSTALL AND UNCOVER ALL TEMPORARY SIGNS BEFORE EXISTING SIGNS ARE REMOVED. THE CONTRACTOR SHALL RELOCATE EXISTING SIGNS AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL INSTALL AND UNCOVER ALL PERMANENT SIGNING BEFORE TEMPORARY SIGNING IS REMOVED.
- ALL EXISTING TRAFFIC GUIDE SIGNS (I.E. STREET NAME SIGNS, ADVANCED STREET NAME SIGNS, ETC.) SHALL BE MAINTAINED AND VISIBLE TO TRAFFIC THROUGHOUT CONSTRUCTION.

- EXISTING TRAFFIC SIGNS IN CONFLICT WITH STAGING SHALL BE REMOVED, RELOCATED, OR COVERED AS DIRECTED BY THE ENGINEER.
- POSITIVE DRAINAGE WITHIN THE WORK ZONE MUST BE MAINTAINED AT ALL TIMES. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, INCLUDING THE FLOW LINE OF DITCHES, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY INLETS, OUTLETS, AND CONNECTIONS FOR ALL EXISTING AND PROPOSED FACILITIES INCLUDING TEMPORARY PUMPING IF NECESSARY. TEMPORARY ACCOMMODATIONS SHALL BE MAINTAINED UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE AND THE FINAL SHAPING AND GRADING OF DITCHES IS PERFORMED. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS (TEMPORARY OR PERMANENT USED AS TEMPORARY) TO COMPLY WITH THIS REQUIREMENT WILL NOT BE PAID FOR DIRECTLY, BUT THE COST SHALL BE CONSIDERED INCLUDED IN THE PROPOSED ITEMS OF WORK IN THE CONTRACT.
- CONTRACTOR SHALL REMOVE ANY TEMPORARY AND PERMANENT PAVEMENT MARKINGS CONFLICTING WITH PROPOSED MOT BY METHODS APPROVED BY THE ENGINEER. REMOVAL FOR THESE PURPOSES SHALL BE CONSIDERED INCLUDED IN THE PRICE OF TEMPORARY PAVEMENT MARKING REMOVAL.
- THE CONTRACTOR SHALL NOTE LOCATIONS OF ALL PAVEMENT MARKINGS OUTSIDE OF THE PROJECT LIMITS FOR RESTORATION PURPOSES.
- THE CONTRACTOR SHALL USE TEMPORARY PAVEMENT MARKING TAPE, TYPE IV ON EXISTING SURFACES TO REMAIN, AREAS IN CONFLICT WITH OTHER STAGES, AND PERMANENT SURFACES.
- THE CONTRACTOR SHALL MAINTAIN ALL DRIVEWAY AND SIDE STREET ENTRANCES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ACCESS TO EXISTING DRIVEWAY ENTRANCES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "TEMPORARY ACCESS (PRIVATE OR COMMERCIAL)". THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS AND DRIVEWAYS BY UTILIZING STAGED CONSTRUCTION, FLAGGERS, TEMPORARY ACCESSES, OR OTHER METHODS APPROVED BY THE ENGINEER. THIS WORK SHALL NOT BE CONSIDERED FOR ADDITIONAL PAYMENT, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS OF WORK. EACH ENTRANCE AND SIDEROAD WILL BE MEASURE FOR PAYMENT ONCE.

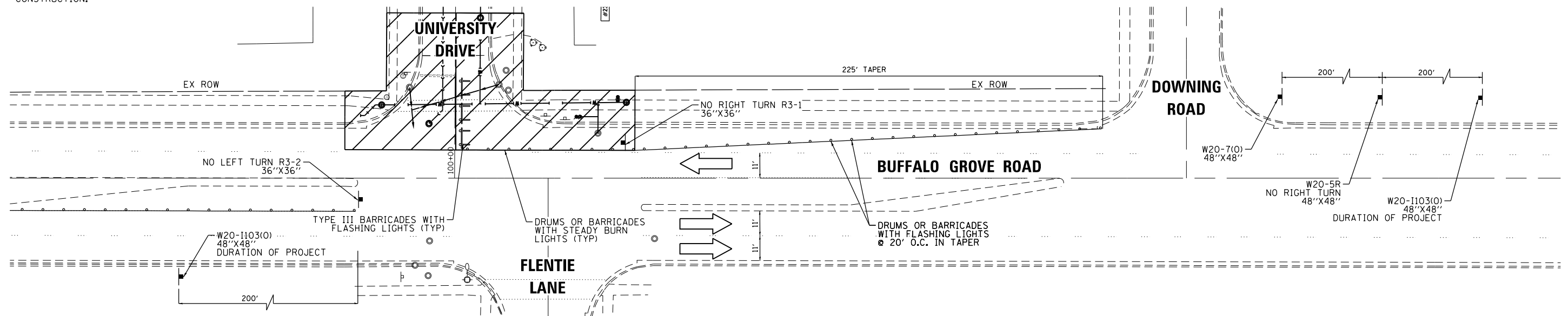
SYMBOLS

-  BARRICADE TYPE III WITH 2 2-WAY FLASHING LIGHTS (ONE SYMBOL SHALL REPRESENT ANY NUMBER OF BARRICADES REQUIRED TO ADEQUATELY PROTECT THE AREA SHOWN).
-  BARRICADE TYPE II OR DRUMS, WITH STEADY-BURN LIGHT (50' C-C SPACING TYP. AND 25' C-C ON TAPERS AND CURVES).
-  TEMPORARY TRAFFIC ADVISORY SIGN
-  WORK ZONE
-  DIRECTION OF TRAFFIC

SIGNS

-  W21-1(0)*
48 IN x 48 IN
-  R3-2
36 IN x 36 IN
-  W20-7(0)
48 IN x 48 IN
-  R3-1
36 IN x 36 IN
-  ROAD CONSTRUCTION AHEAD
W20-1103(0)
48 IN x 48 IN
-  RIGHT LANE CLOSED AHEAD
W 20-5R
48 IN x 48 IN
-  SIDEWALK CLOSED
R11-1101
24 IN x 18 IN
WITH DETECTABLE PEDESTRIAN BARRICADE

*SIGNS TO BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR



BUFFALO GROVE ROAD

BEGIN ROADWAY IMPROVEMENTS UNIVERSITY DRIVE STA. 100+22.00

BEGIN ROADWAY IMPROVEMENTS UNIVERSITY DRIVE STA. 100+59.00

EX. SANITARY SEWER TO BE LINED UNDER SEPARATE CONTRACT. SEE NOTES.

FILL AND ABANDON EXISTING FORCE MAIN (SPECIAL)

UNIVERSITY DRIVE

NOTE:
ALL ABANDONED SANITARY SEWERS/FORCE MAINS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG

LEGEND

	PAVEMENT REMOVAL PREPARATION OF BASE		SIDEWALK REMOVAL
	DRIVEWAY PAVEMENT REMOVAL (TYPE SPECIFIED)		HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT
	UTILITY TRENCH SAWCUT		LINEAR ITEM REMOVAL
	STRUCTURES TO BE REMOVED		TREE REMOVAL - BY OTHERS
	STRUCTURES TO BE ADJUSTED		

MATCH LINE STA. 105+00

MATCH LINE STA. 111+00

NOTE:
TREES TO BE REMOVED UNDER SEPARATE CONTRACT.

CONTRACTOR IS RESPONSIBLE FOR PROTECTING & PRESERVING LIGHT POLES AND WIRING. ANY DAMAGE OCCURRED IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE.

STRUCTURES TO BE RECONSTRUCTED AT ENGINEERS DISCRETION.

CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE OR BREAKS OF EXISTING FORCE MAIN DURING CONSTRUCTION OPERATIONS.

CONTRACTOR SHALL BE AWARE OF SEPARATE SANITARY LINING PROJECT THAT WILL TAKE PLACE SIMULTANEOUS TO THE UNIVERSITY DR. UTILITY/ROADWAY IMPROVEMENTS PROJECT.

TEMPORARY RAMPS SHALL BE INSTALLED AT ALL DRIVEWAY LOCATIONS AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN ACCESS.

REFER TO UTILITY PLAN FOR REMOVAL OF FORCEMAIN & WATER MAIN



USER NAME = DMcginley	DESIGNED - MC	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - MC	REVISED -
PLOT DATE = 7/24/2019	CHECKED - DB	REVISED -
	DATE - 07/25/2019	REVISED -

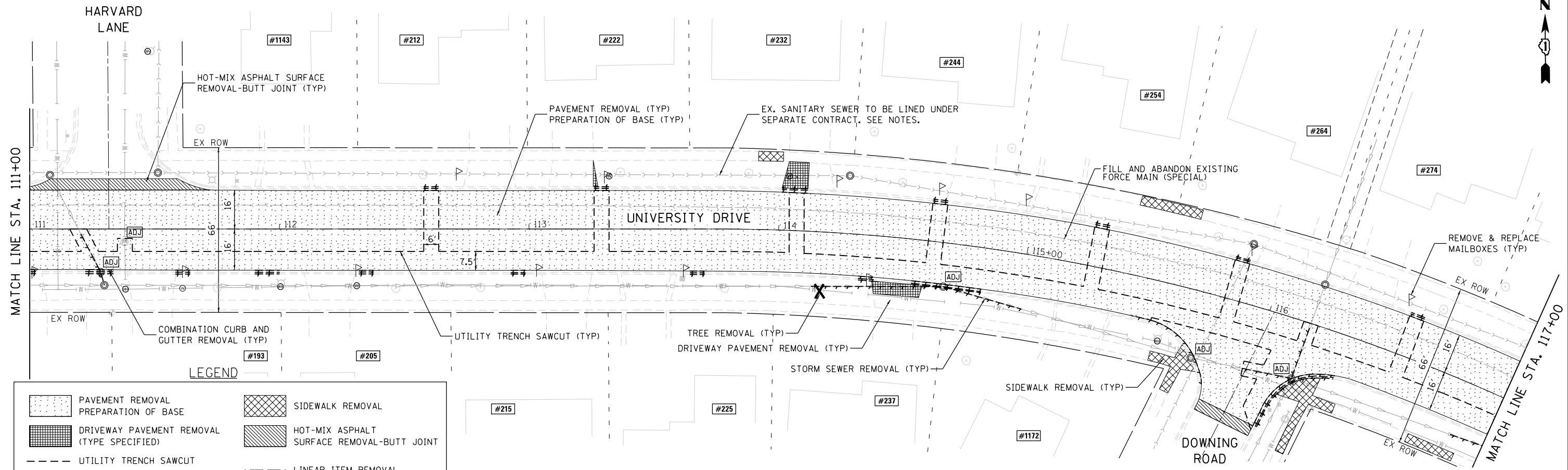


VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
REMOVAL PLAN

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 100+00 TO STA. 111+00

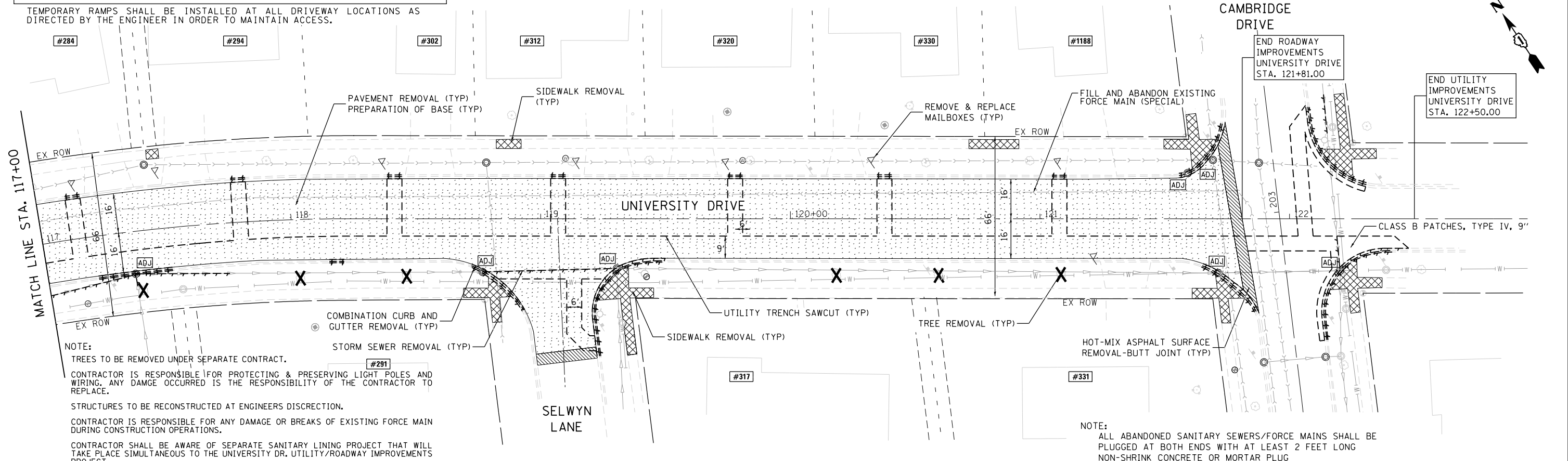
MUN. R.T.E. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 16
CONTRACT NO.				
ILLINOIS				



LEGEND

PAVEMENT REMOVAL PREPARATION OF BASE	SIDEWALK REMOVAL
DRIVEWAY PAVEMENT REMOVAL (TYPE SPECIFIED)	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT
UTILITY TRENCH SAWCUT	LINEAR ITEM REMOVAL
STRUCTURES TO BE REMOVED	TREE REMOVAL - BY OTHERS
STRUCTURES TO BE ADJUSTED	

TEMPORARY RAMPS SHALL BE INSTALLED AT ALL DRIVEWAY LOCATIONS AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN ACCESS.



NOTE:
 TREES TO BE REMOVED UNDER SEPARATE CONTRACT.
 CONTRACTOR IS RESPONSIBLE FOR PROTECTING & PRESERVING LIGHT POLES AND WIRING. ANY DAMAGE OCCURRED IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE.
 STRUCTURES TO BE RECONSTRUCTED AT ENGINEERS DISCRETION.
 CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE OR BREAKS OF EXISTING FORCE MAIN DURING CONSTRUCTION OPERATIONS.
 CONTRACTOR SHALL BE AWARE OF SEPARATE SANITARY LINING PROJECT THAT WILL TAKE PLACE SIMULTANEOUS TO THE UNIVERSITY DR. UTILITY/ROADWAY IMPROVEMENTS PROJECT.

NOTE:
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USER NAME = DMcGinley	DESIGNED - MC	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - MC	REVISED -
PLOT DATE = 7/24/2019	CHECKED - DB	REVISED -
	DATE - 07/25/2019	REVISED -



VILLAGE OF BUFFALO GROVE

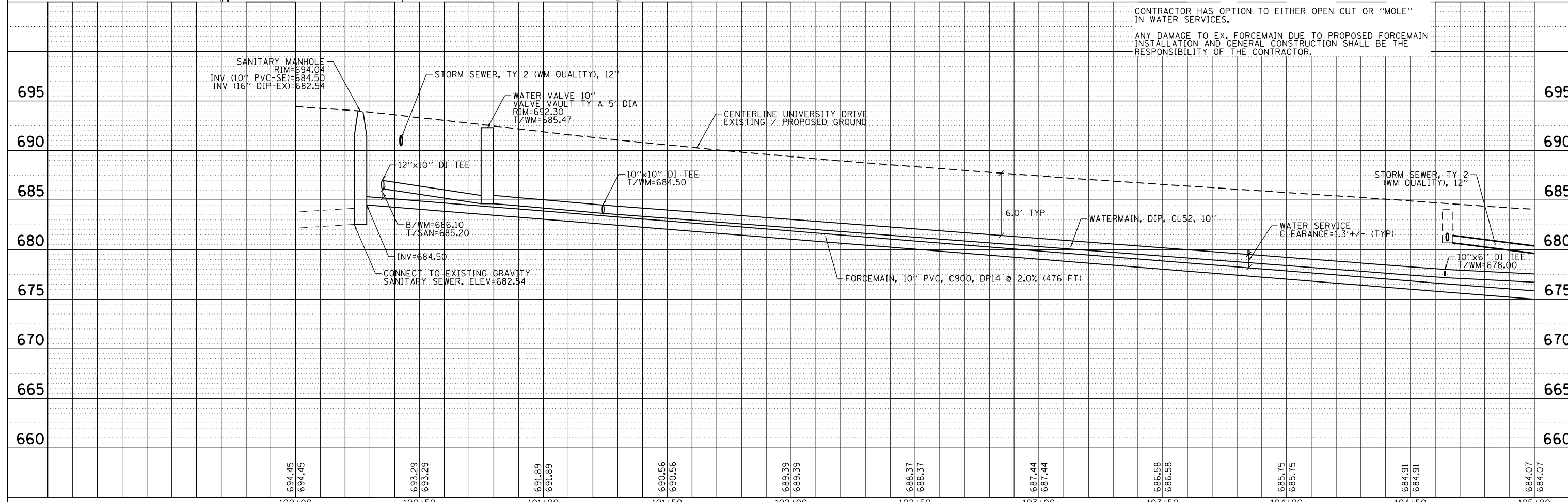
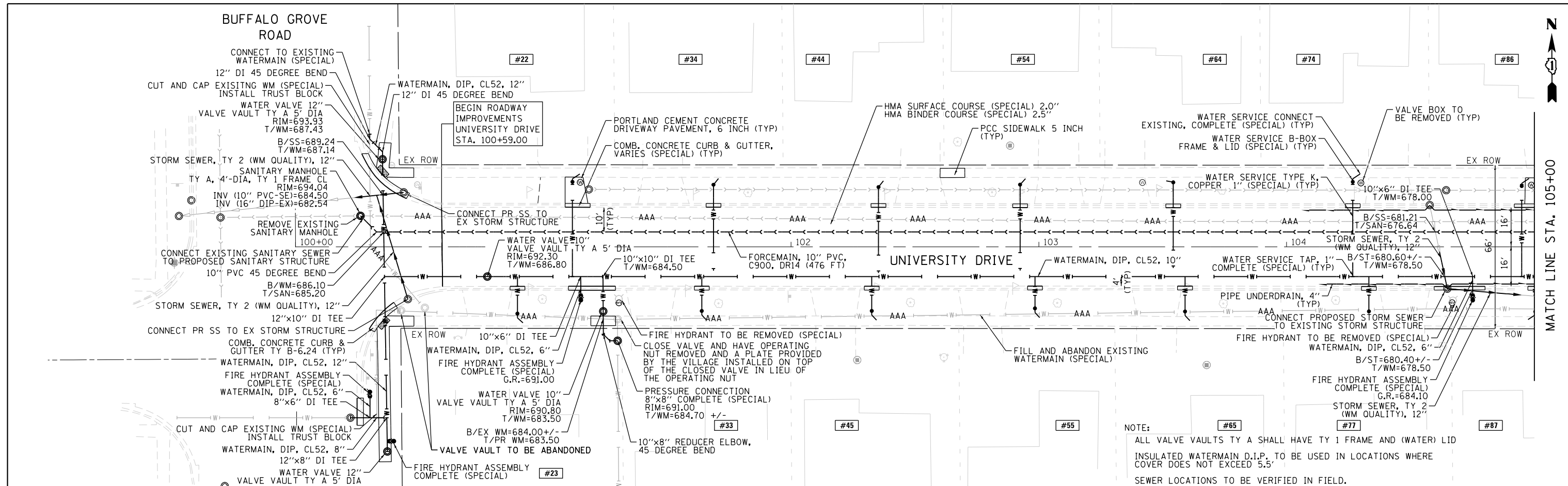
**UNIVERSITY DRIVE
REMOVAL PLAN**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 111+00 TO STA. 122+50

MUN. R.T.E. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 17
			CONTRACT NO.	
ILLINOIS				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	PAID FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	STRUCTURE NOTATIONS	



NOTE:
 ALL VALVE VAULTS TY A SHALL HAVE TY 1 FRAME AND (WATER) LID
 INSULATED WATERMAIN D.I.P. TO BE USED IN LOCATIONS WHERE
 COVER DOES NOT EXCEED 5.5'
 SEWER LOCATIONS TO BE VERIFIED IN FIELD.
 CONTRACTOR HAS OPTION TO EITHER OPEN CUT OR "MOLE"
 IN WATER SERVICES.
 ANY DAMAGE TO EX. FORCEMAIN DUE TO PROPOSED FORCEMAIN
 INSTALLATION AND GENERAL CONSTRUCTION SHALL BE THE
 RESPONSIBILITY OF THE CONTRACTOR.



USER NAME = DMcGlinney	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE - 07/25/2019	REVISED -



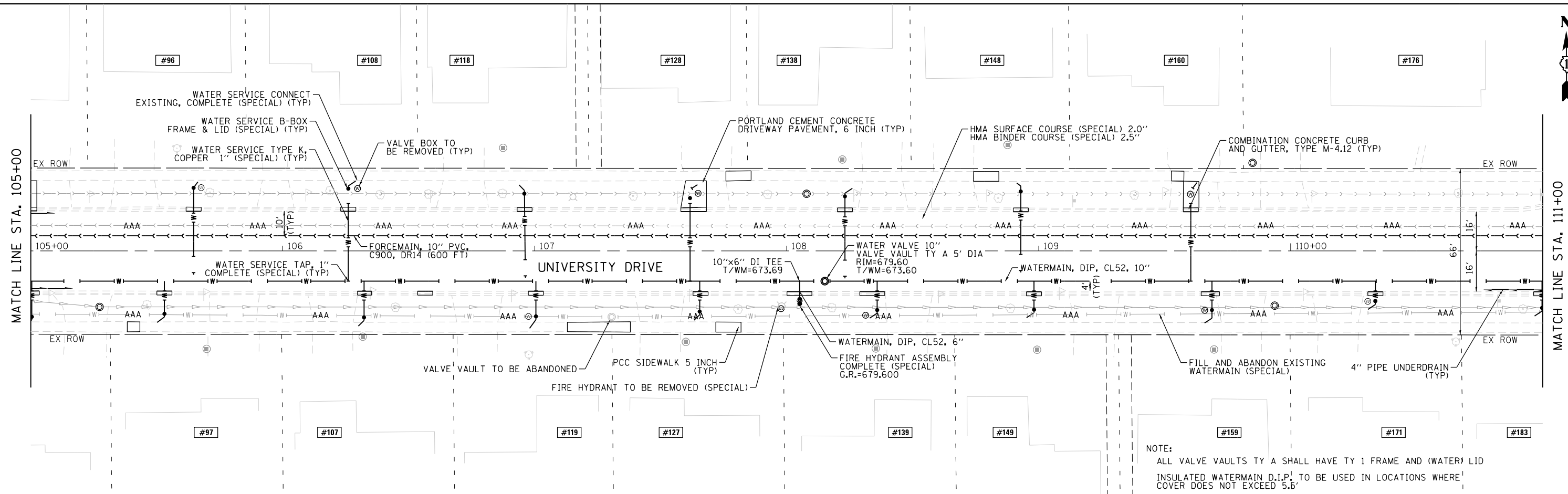
VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE	
ROADWAY /UTILITY PLAN AND PROFILE	
SCALE: 1"=20'	SHEET 1 OF 4 SHEETS
STA. 100+00	TO STA. 105+00

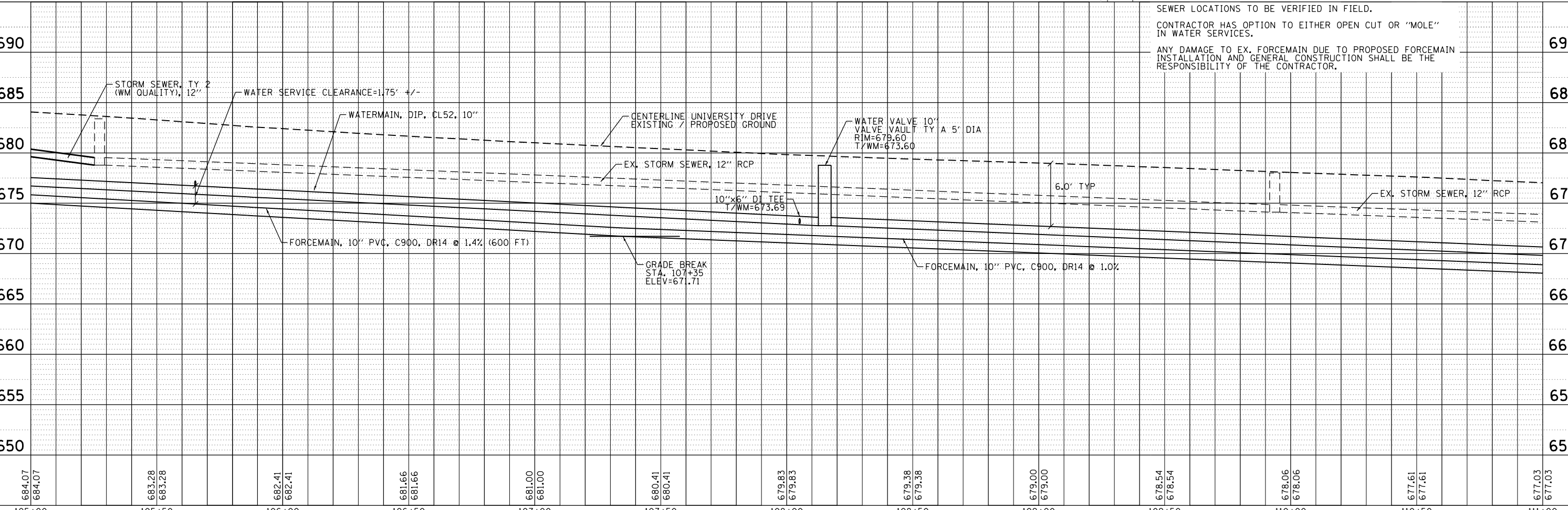
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CONTRACT NO.				
ILLINOIS				

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	PLOTTED	BY
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	PAID FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHFD	
	NO.	



NOTE:
 ALL VALVE VAULTS TY A SHALL HAVE TY 1 FRAME AND (WATER) LID
 INSULATED WATERMAIN D.I.P. TO BE USED IN LOCATIONS WHERE COVER DOES NOT EXCEED 5.5'



SEWER LOCATIONS TO BE VERIFIED IN FIELD.
 CONTRACTOR HAS OPTION TO EITHER OPEN CUT OR "MOLE" IN WATER SERVICES.
 ANY DAMAGE TO EX. FORCEMAIN DUE TO PROPOSED FORCEMAIN INSTALLATION AND GENERAL CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

684.07	684.07	683.28	683.28	682.41	682.41	681.66	681.66	681.00	681.00	680.41	680.41	679.83	679.83	679.38	679.38	679.00	679.00	678.54	678.54	678.06	678.06	677.61	677.61	677.03	677.03
105+00	105+50	106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00	111+00	111+00	111+00	111+00	111+00	111+00	111+00	111+00	111+00	111+00	111+00	111+00	



USER NAME = DMcGlinney	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 48,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/24/2019	DATE - 07/25/2019	REVISED -



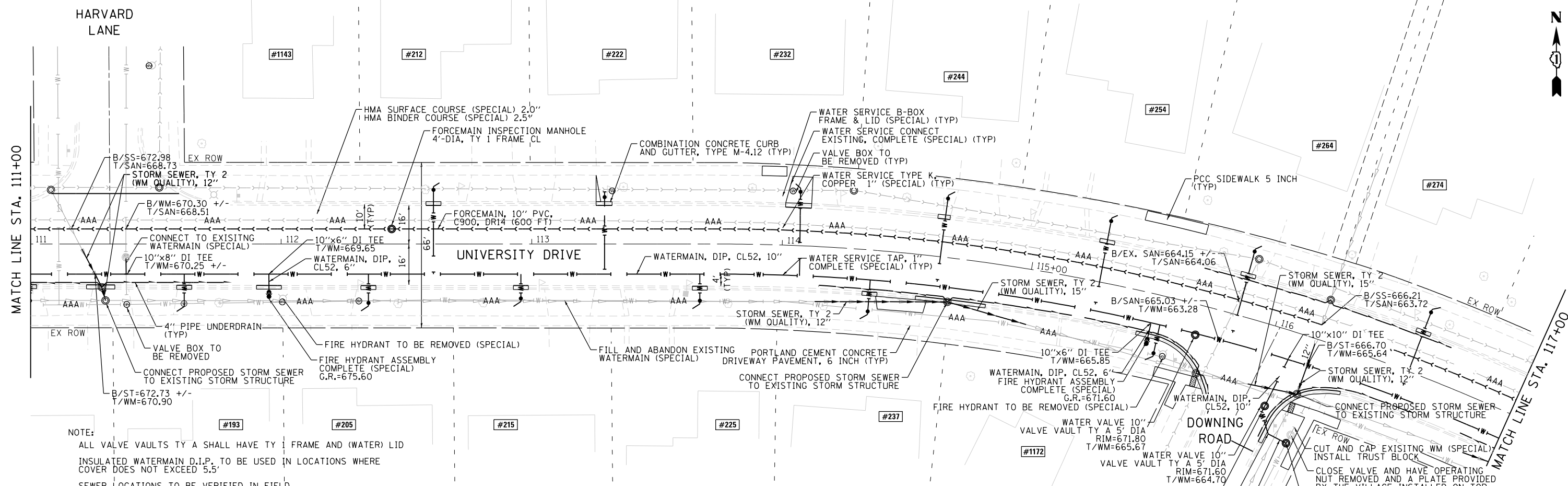
VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE			
ROADWAY /UTILITY PLAN AND PROFILE			
SCALE: 1"=20'	SHEET 2 OF 4 SHEETS	STA. 105+00 TO STA. 111+00	

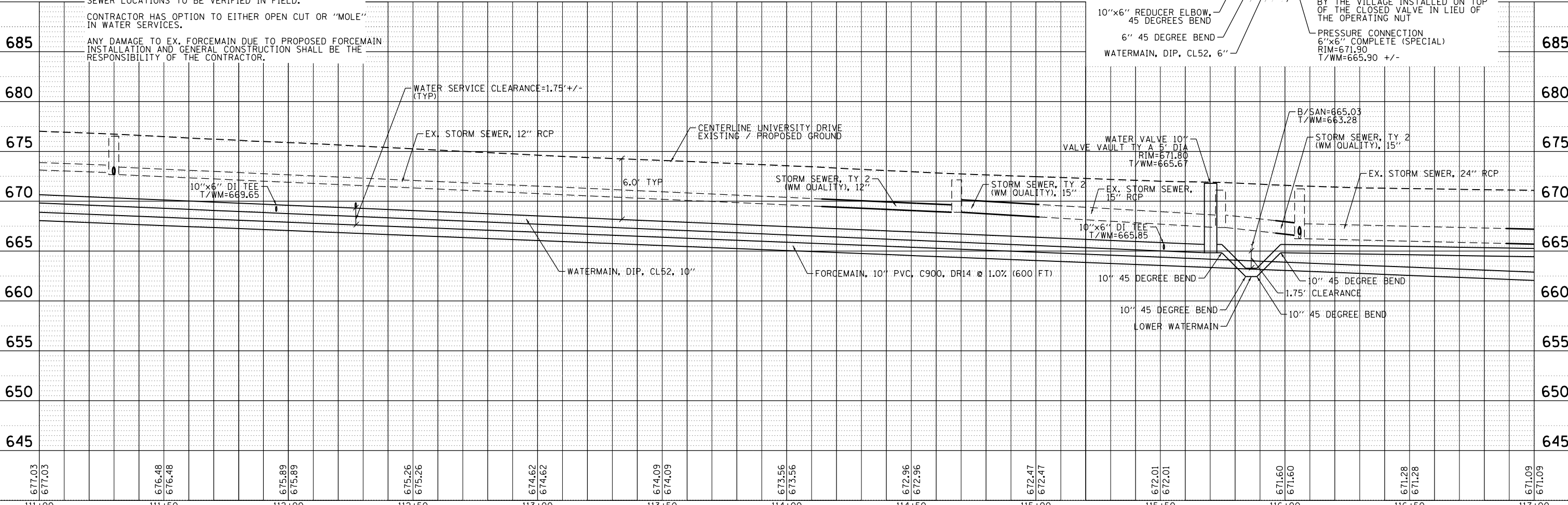
MUN RTE. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 19
CONTRACT NO.				
ILLINOIS				

PLAN	SURVEYED	DATE
NO.	BY	
NO.	PLOTTED	
NO.	CHECKED	
NO.	BY	
NO.	DATE	

PROF ILE	SURVEYED	DATE
NO.	BY	
NO.	PLOTTED	
NO.	CHECKED	
NO.	BY	
NO.	DATE	



NOTE:
 ALL VALVE VAULTS TY A SHALL HAVE TY 1 FRAME AND (WATER) LID
 INSULATED WATERMAIN D.I.P. TO BE USED IN LOCATIONS WHERE COVER DOES NOT EXCEED 5.5'
 SEWER LOCATIONS TO BE VERIFIED IN FIELD.
 CONTRACTOR HAS OPTION TO EITHER OPEN CUT OR "MOLE" IN WATER SERVICES.
 ANY DAMAGE TO EX. FORCEMAIN DUE TO PROPOSED FORCEMAIN INSTALLATION AND GENERAL CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



677.03	677.03	676.48	676.48	675.89	675.89	675.26	675.26	674.62	674.62	674.09	674.09	673.56	673.56	672.96	672.96	672.47	672.47	672.01	672.01	671.60	671.60	671.28	671.28	671.09	671.09
111+00	111+50	112+00	112+50	113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00													



USER NAME = DMcGlinney	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 48,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/24/2019	DATE - 07/25/2019	REVISED -



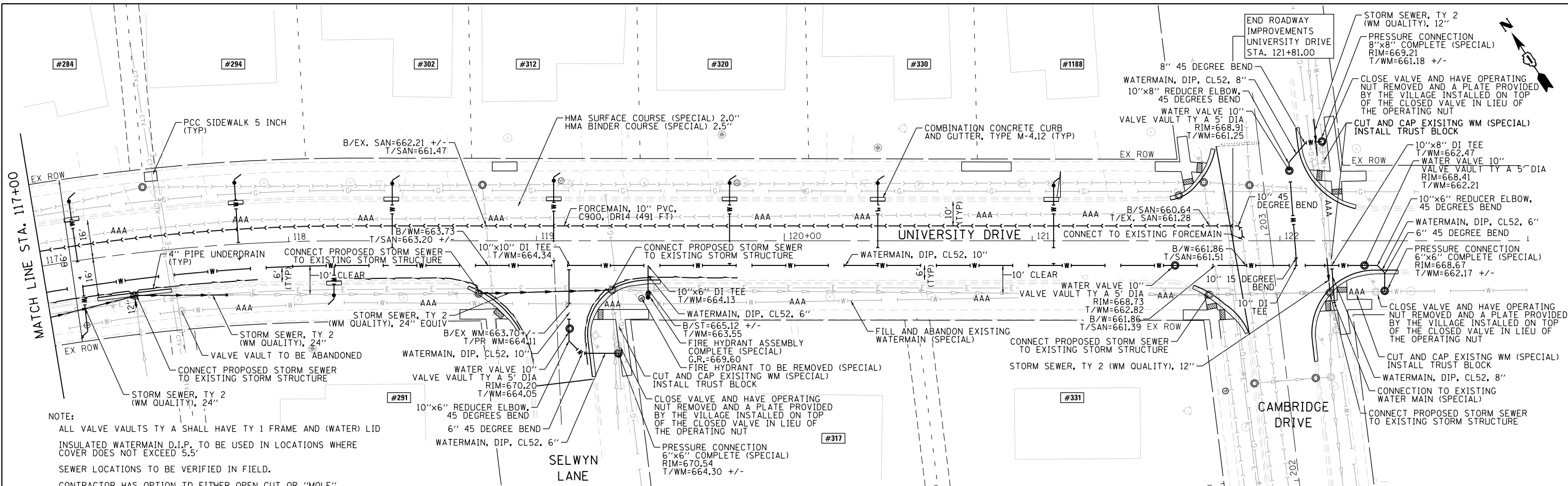
VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE	
ROADWAY /UTILITY PLAN AND PROFILE	
SCALE: 1"=20'	SHEET 3 OF 4 SHEETS STA. 111+00 TO STA. 117+00

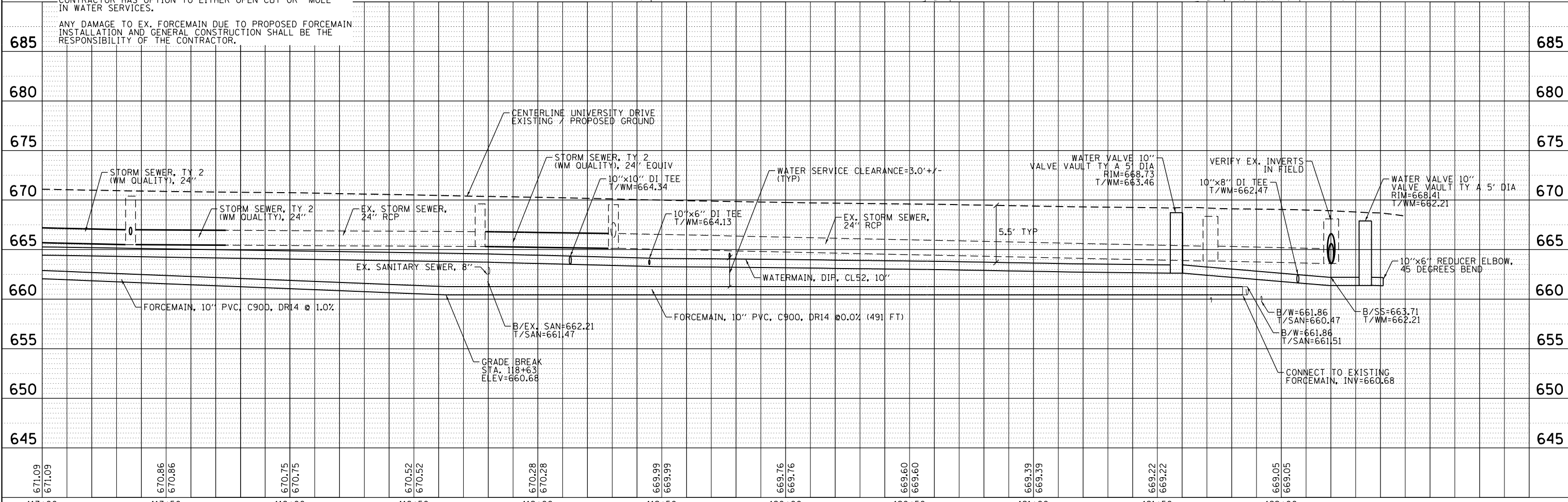
MUN. RTE. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 20
CONTRACT NO.				
ILLINOIS				

PLAN	SURVEYED	DATE
NO.	PLOTTED	BY
NO.	CHECKED	DATE
NO.	BY	DATE
NO.	DATE	
NO.	DATE	
NO.	DATE	
NO.	DATE	

PROF ILE	SURVEYED	DATE
NO.	PLOTTED	BY
NO.	CHECKED	DATE
NO.	BY	DATE
NO.	DATE	
NO.	DATE	
NO.	DATE	
NO.	DATE	



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 ANY DAMAGE TO EX. FORCEMAIN DUE TO PROPOSED FORCEMAIN INSTALLATION AND GENERAL CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



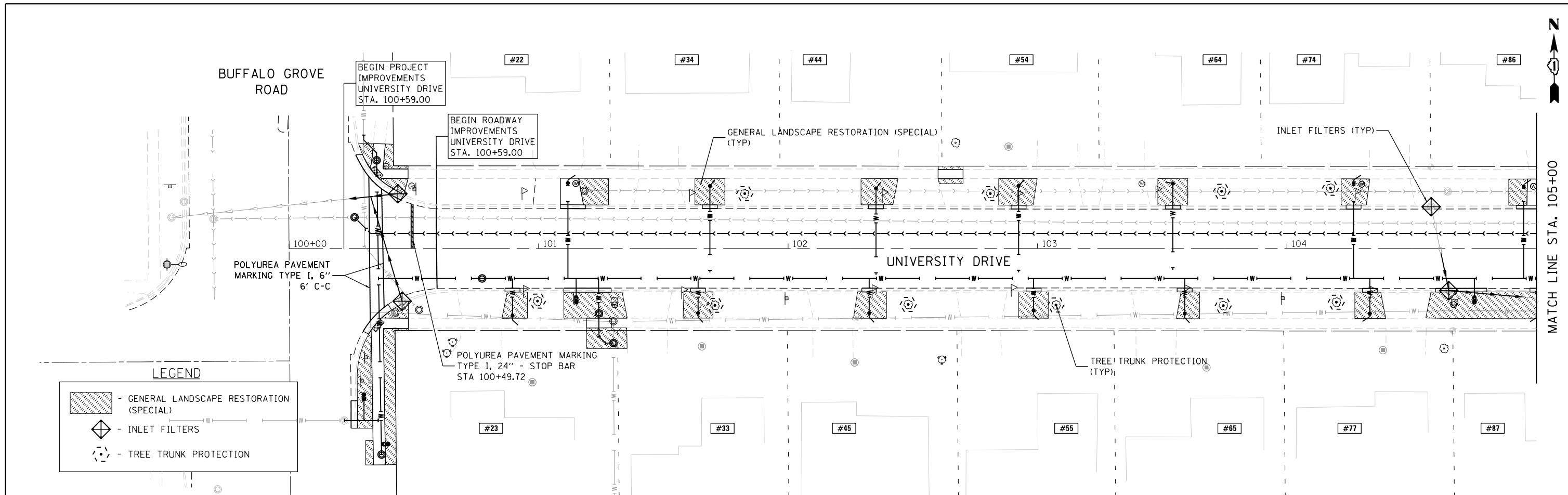
USER NAME = DMcGlinney	DESIGNED -	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 7/24/2019	CHECKED -	REVISED -
	DATE = 07/25/2019	REVISED -



VILLAGE OF BUFFALO GROVE

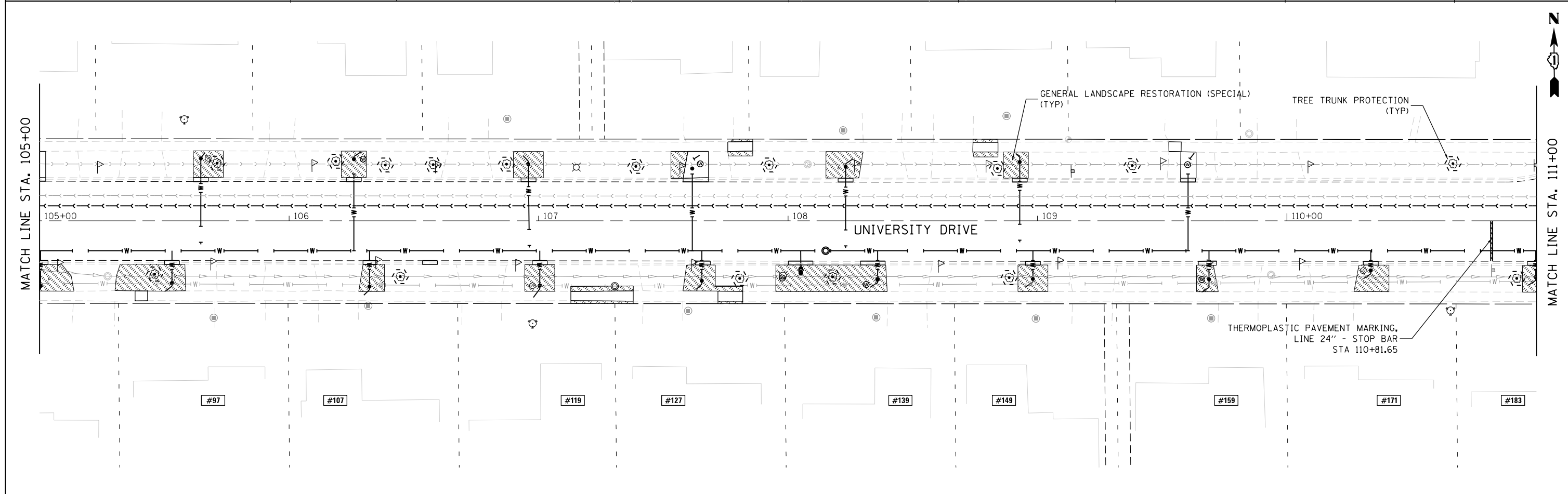
UNIVERSITY DRIVE			
ROADWAY /UTILITY PLAN AND PROFILE			
SCALE: 1"=20'	SHEET 4	OF 4 SHEETS	STA. 117+00 TO STA. 122+50

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	21
CONTRACT NO.				
ILLINOIS				



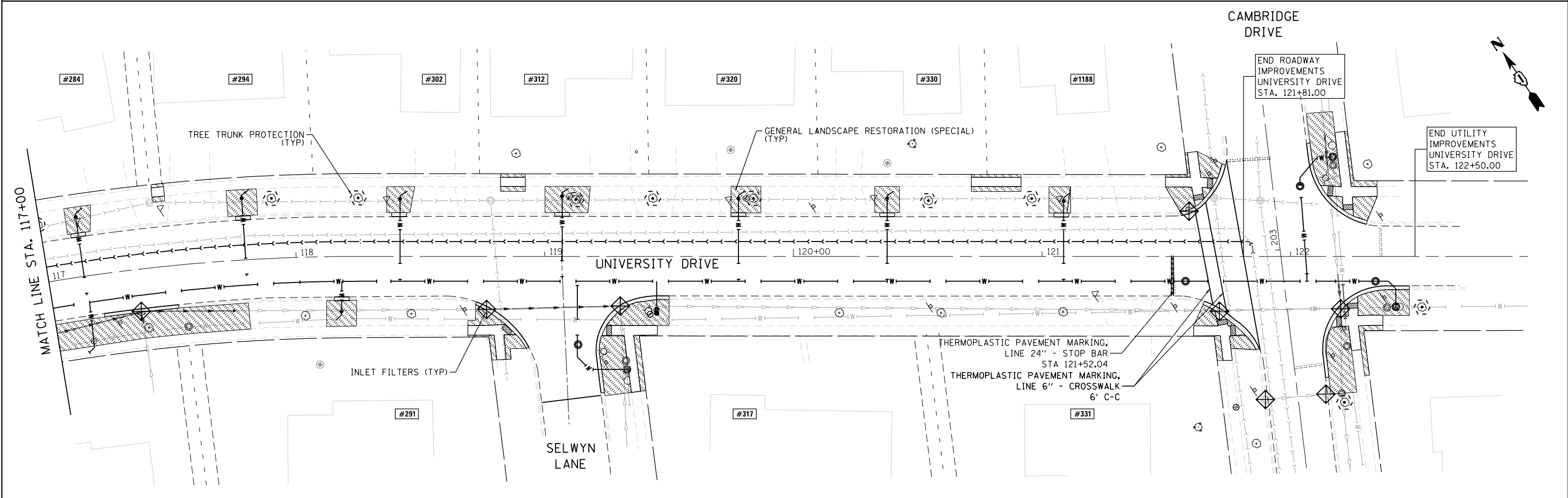
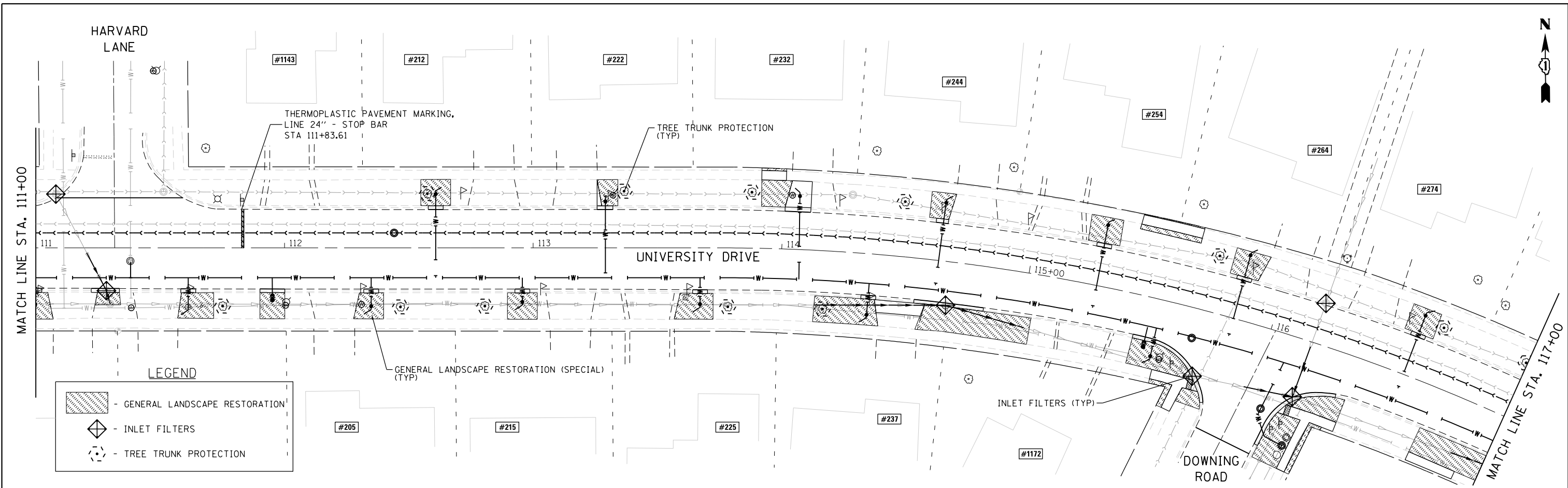
LEGEND

	- GENERAL LANDSCAPE RESTORATION (SPECIAL)
	- INLET FILTERS
	- TREE TRUNK PROTECTION



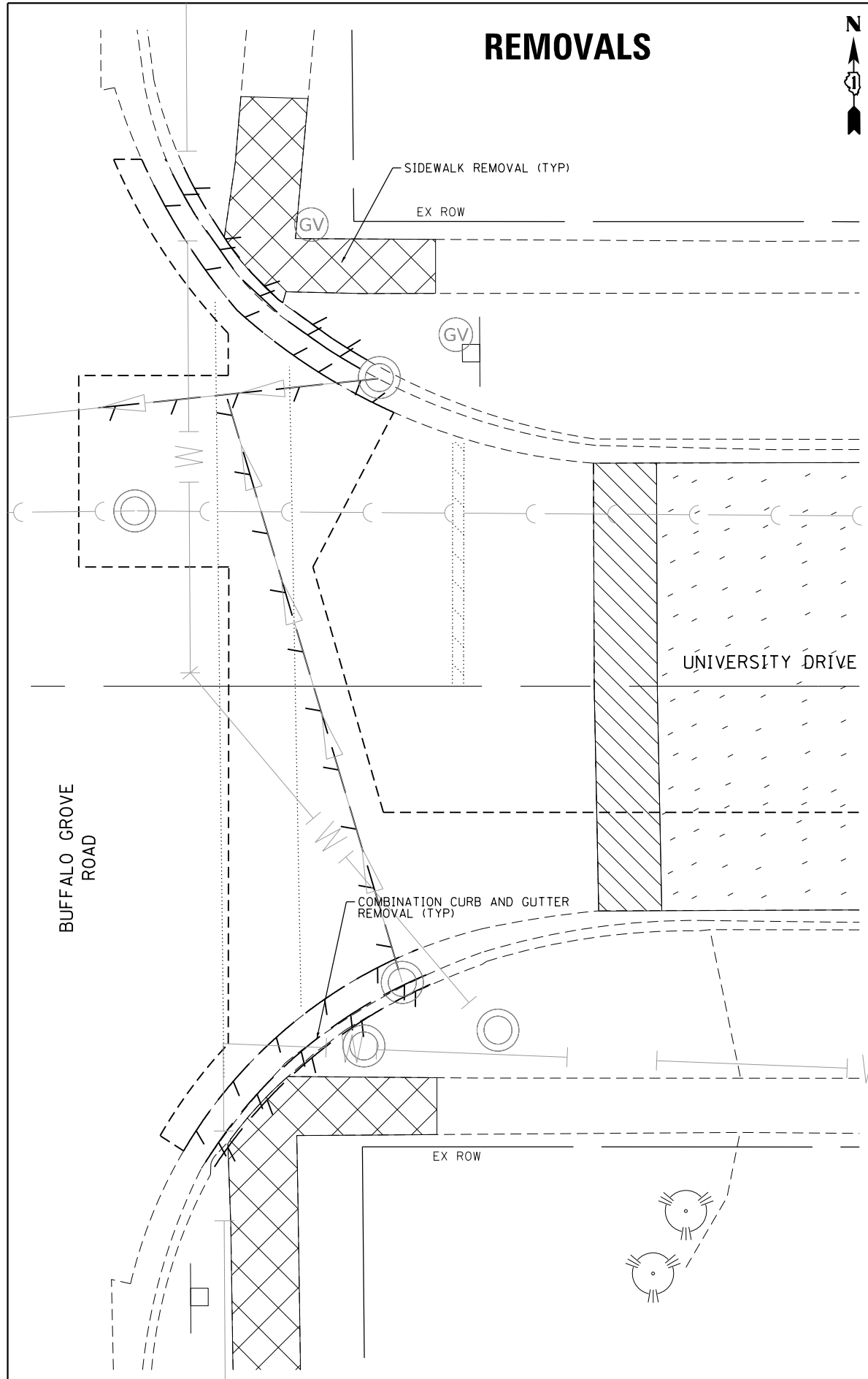
	USER NAME = DMcginley	DESIGNED - MC	REVISED -		UNIVERSITY DRIVE LANDSCAPING / EROSION CONTROL / PAVEMENT MARKINGS			MUN. RTE. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 22		
	PLOT SCALE = 48.0000' / in.	CHECKED - DB	REVISED -					CONTRACT NO.						
	PLOT DATE = 7/24/2019	DATE - 07/25/2019	REVISED -					ILLINOIS						

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 100+00 TO STA. 111+00

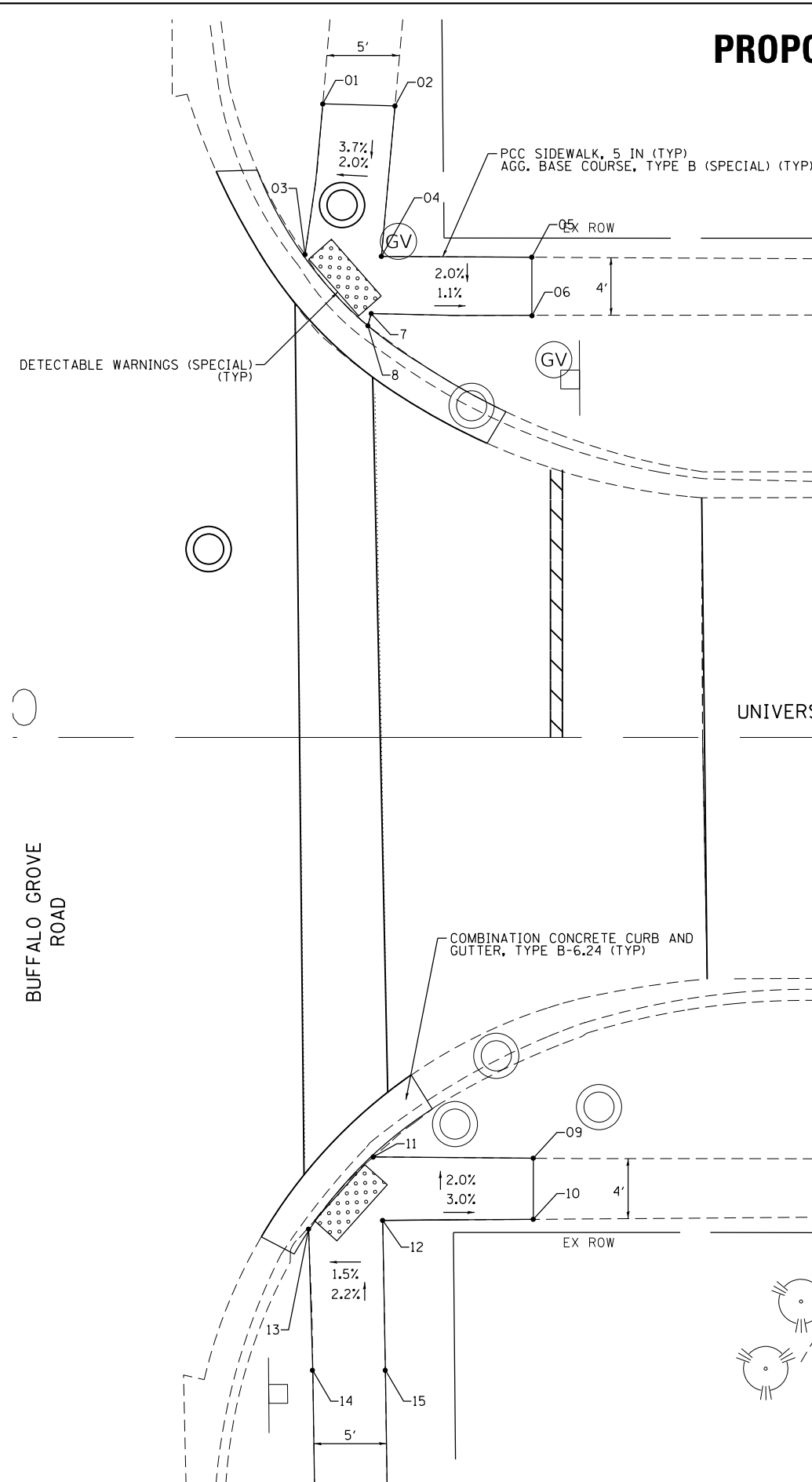


	USER NAME = DMcGinley	DESIGNED - MC	REVISED -		VILLAGE OF BUFFALO GROVE UNIVERSITY DRIVE LANDSCAPING / EROSION CONTROL / PAVEMENT MARKINGS PLAN			MUN. R.T.E. = 4220	SECTION	COUNTY = COOK	TOTAL SHEETS = 31	SHEET NO. = 23		
	PLOT SCALE = 48.0000' / in.	CHECKED - DB	REVISED -					CONTRACT NO.						
	PLOT DATE = 7/24/2019	DATE = 07/25/2019	REVISED -					ILLINOIS						

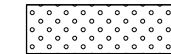

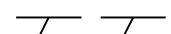
REMOVALS



PROPOSED



LEGEND

-  DETECTABLE WARNINGS, FURNISHED BY OTHERS (SPECIAL) OR DETECTABLE WARNINGS (SPECIAL)
-  SIDEWALK REMOVAL
-  LINEAR ITEM REMOVAL

BUFFALO GROVE INTERSECTION			
POINT No. :	STATION	OFFSET	ELEV.
1	100+33.81	42.06' LT	694.34
2	100+38.60	41.91' LT	694.26
3	100+32.60	31.87' LT	693.97
4	100+37.70	31.93' LT	693.89
5	100+47.70	31.87' LT	693.68
6	100+47.70	28.02' LT	693.70
7	100+42.68	31.90' LT	693.81
8	100+42.68	28.00' RT	693.79
9	100+47.80	27.93' RT	693.08
10	100+47.80	32.00' RT	693.16
11	100+37.00	27.85' RT	693.38
12	100+37.79	32.06' RT	693.46
13	100+32.87	32.64' RT	693.40
14	100+33.14	42.08' RT	693.72
15	100+37.96	42.00' RT	693.68



USER NAME = DMcglinicy	DESIGNED - MC	REVISED -
DRAWN - MC	REVISOR -	
PLOT SCALE = 10,000' / in.	CHECKED - DB	REVISOR -
PLOT DATE = 7/24/2019	DATE - 07/25/2019	REVISOR -



VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
ADA RAMP IMPROVEMENT PLAN

SCALE: 1"=5' SHEET 1 OF 5 SHEETS STA. N/A TO STA. N/A

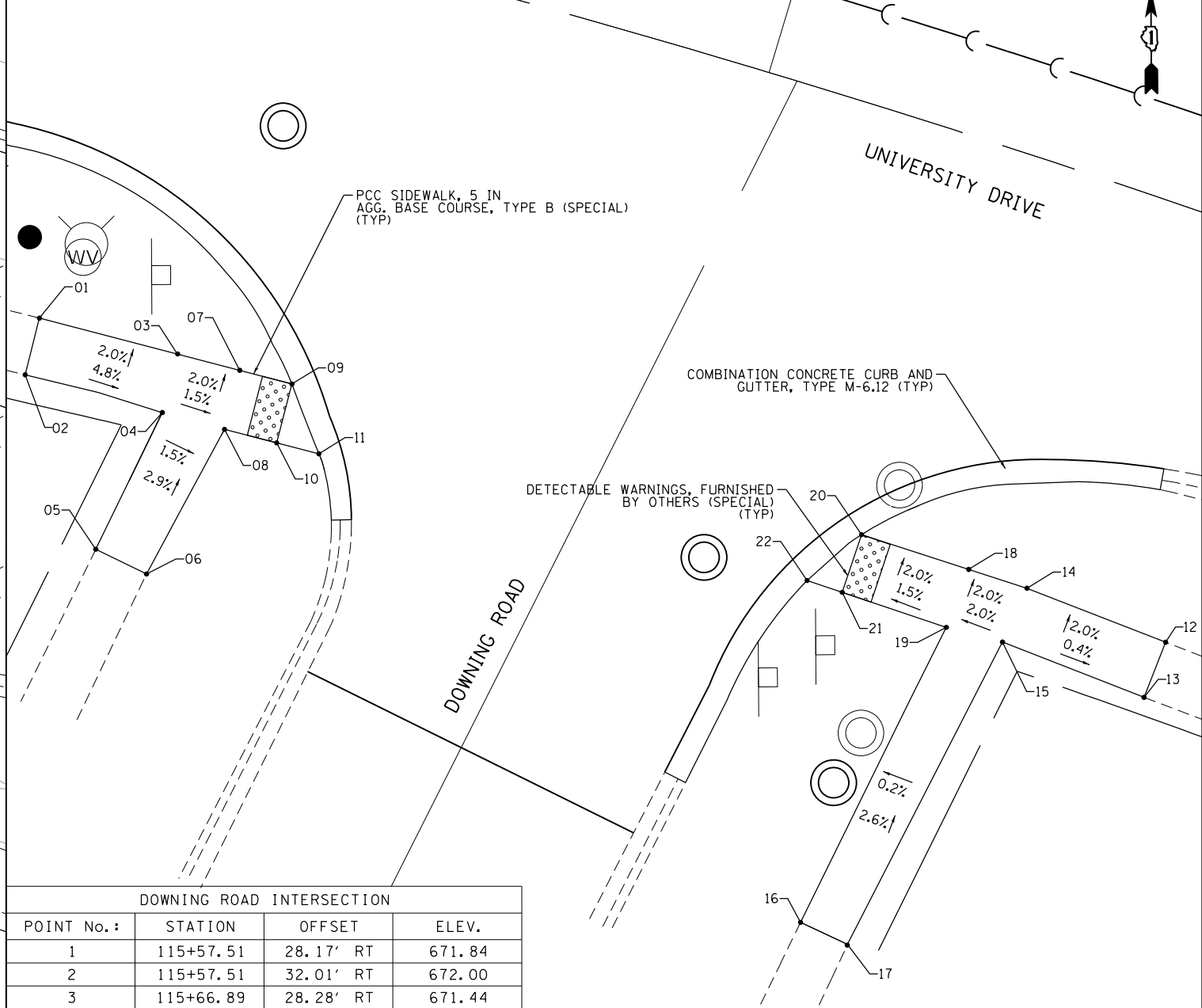
MUN. RTE. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 24
CONTRACT NO.				

ILLINOIS

REMOVALS

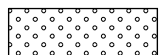
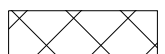
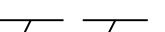


PROPOSED



DOWNING ROAD INTERSECTION			
POINT No.:	STATION	OFFSET	ELEV.
1	115+57.51	28.17' RT	671.84
2	115+57.51	32.01' RT	672.00
3	115+66.89	28.28' RT	671.44
4	115+66.89	32.25' RT	671.52
5	115+64.88	42.04' RT	671.90
6	115+68.52	42.79' RT	671.75
7	115+71.13	28.29' RT	671.38
8	115+71.13	32.29' RT	671.46
9	115+74.68	28.28' RT	671.31
10	115+74.68	32.28' RT	671.39
11	115+77.54	32.28' RT	671.37
12	116+36.72	27.51' RT	671.51
13	116+36.53	31.40' RT	671.62
14	116+26.55	27.15' RT	671.58
15	116+26.55	31.01' RT	671.66
16	116+19.86	52.72' RT	672.15
17	116+23.25	53.12' RT	672.28
18	116+22.74	27.19' RT	671.50
19	116+22.74	31.28' RT	671.58
20	116+15.50	27.22' RT	671.39
21	116+15.50	31.22' RT	671.47
22	116+13.07	31.19' RT	671.46

LEGEND

-  DETECTABLE WARNINGS, FURNISHED BY OTHERS (SPECIAL)
-  SIDEWALK REMOVAL
-  LINEAR ITEM REMOVAL



USER NAME = DMcglinicy	DESIGNED - MC	REVISED -
PLOT SCALE = 10,000:1' / in.	DRAWN - MC	REVISED -
PLOT DATE = 7/24/2019	CHECKED - DB	REVISED -
	DATE - 07/25/2019	REVISED -

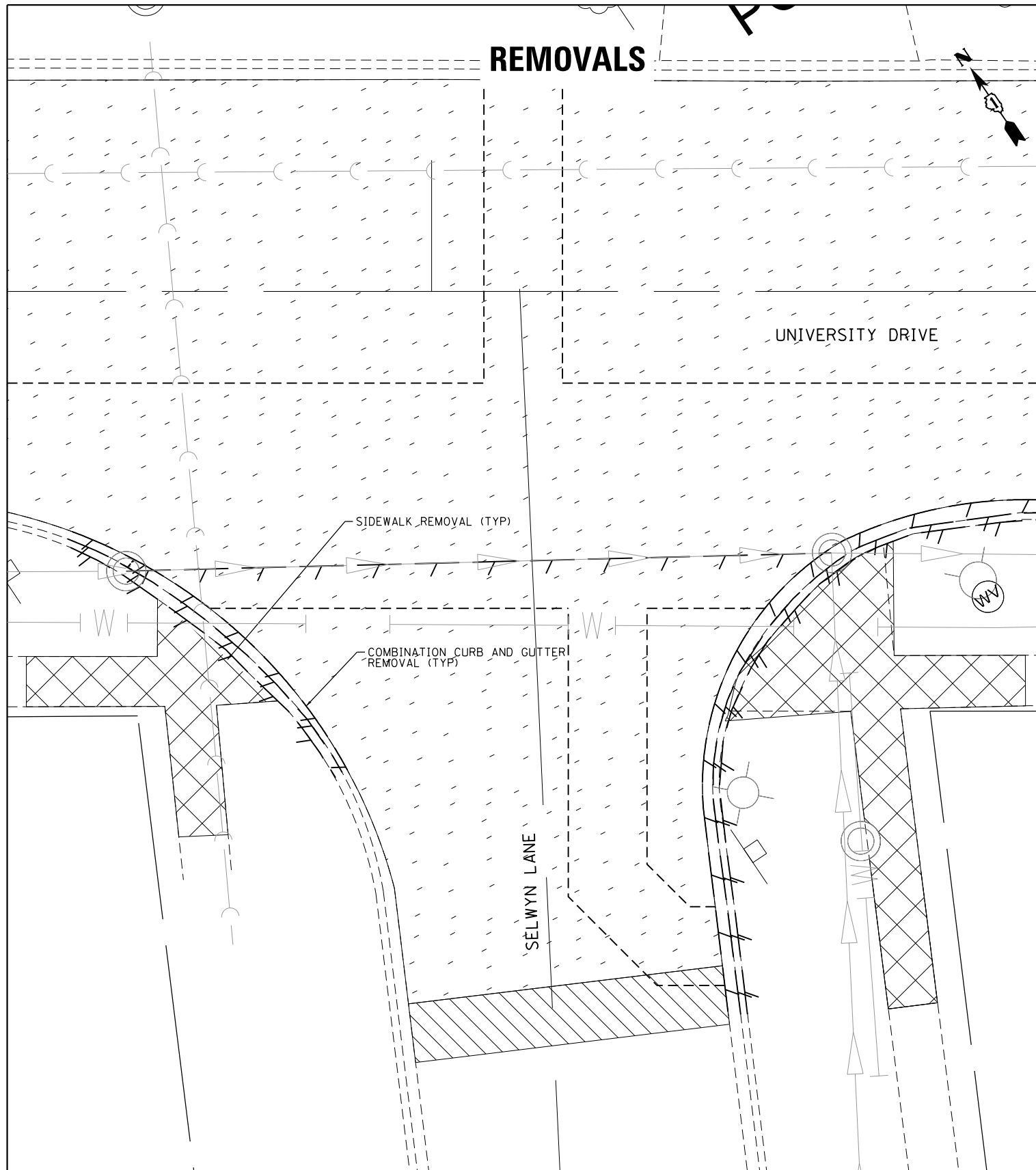


VILLAGE OF BUFFALO GROVE

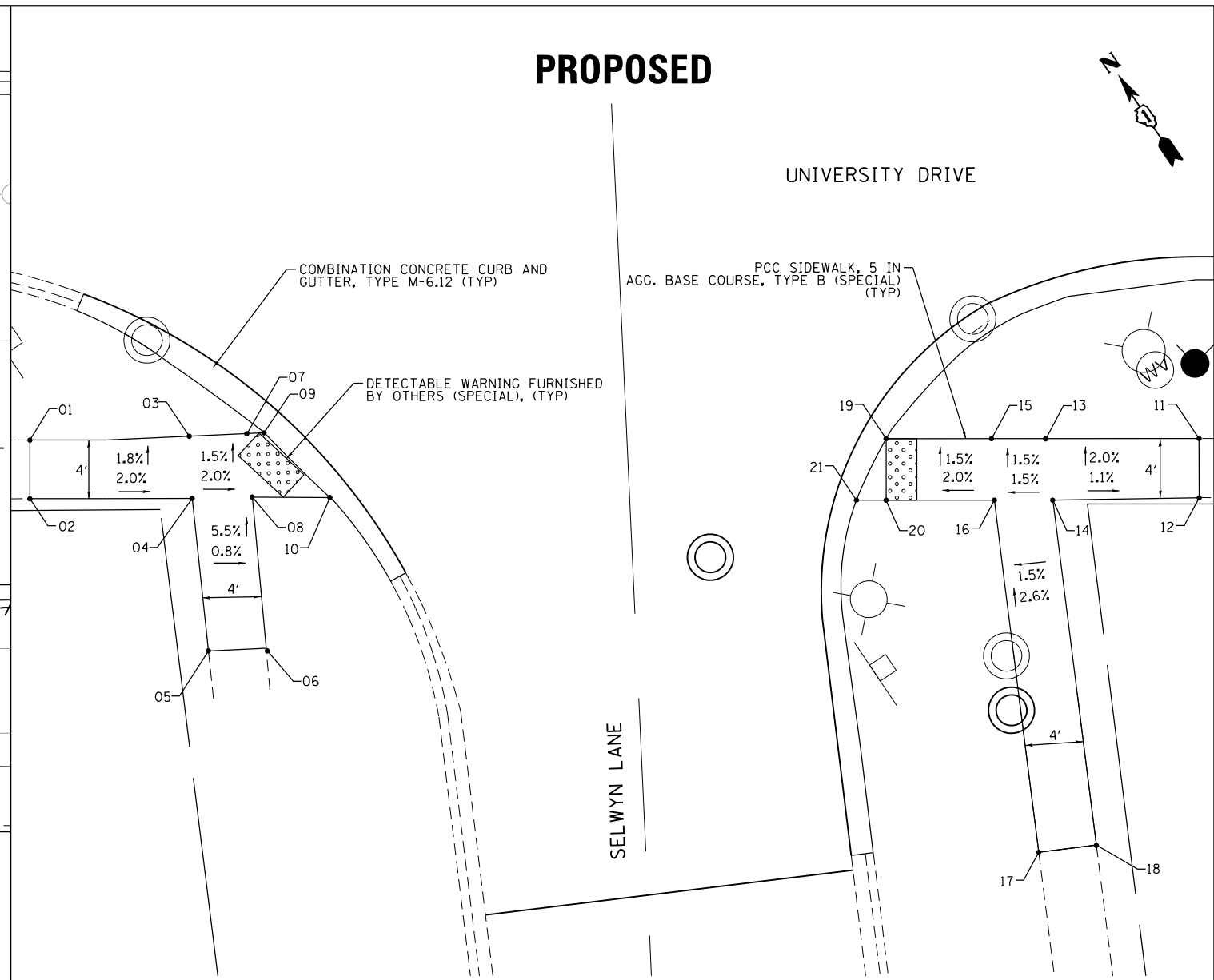
UNIVERSITY DRIVE		MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ADA RAMP IMPROVEMENT PLAN		4220		COOK	31	25
SCALE: 1"=5'	SHEET 2 OF 5 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS		

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	25
CONTRACT NO.				

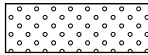

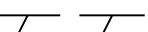
REMOVALS



PROPOSED



LEGEND

-  DETECTABLE WARNINGS (SPECIAL), OR DETECTABLE WARNINGS FURNISHED BY OTHERS (SPECIAL)
-  SIDEWALK REMOVAL
-  LINEAR ITEM REMOVAL

SELWYN LANE INTERSECTION			
POINT No. :	STATION	OFFSET	ELEV.
1	118+69.10	27.83' RT	670.09
2	118+69.10	31.66' RT	670.16
3	118+79.24	27.60' RT	669.89
4	118+79.67	31.64' RT	669.96
5	118+80.73	41.58' RT	670.46
6	118+84.49	41.42' RT	670.43
7	118+83.20	27.42' RT	669.82
8	118+83.59	31.55' RT	669.88
9	118+84.36	27.32' RT	669.80
10	118+88.64	31.58' RT	669.84
11	119+45.27	27.74' RT	669.84
12	119+45.27	31.60' RT	670.01
13	119+35.27	27.76' RT	670.04
14	119+35.74	31.76' RT	670.12
15	119+31.71	27.76' RT	670.00
16	119+31.94	31.76' RT	670.06
17	119+34.82	54.70' RT	670.67
18	119+38.57	54.23' RT	670.76
19	119+24.87	27.75' RT	669.85
20	119+24.87	31.75' RT	669.91
21	119+22.94	31.75' RT	669.89



USER NAME = DMcginley	DESIGNED - MC	REVISED -
PLOT SCALE = 10.0000' / 1"	DRAWN - MC	REVISED -
PLOT DATE = 7/24/2019	CHECKED - DB	REVISED -
	DATE - 07/25/2019	REVISED -

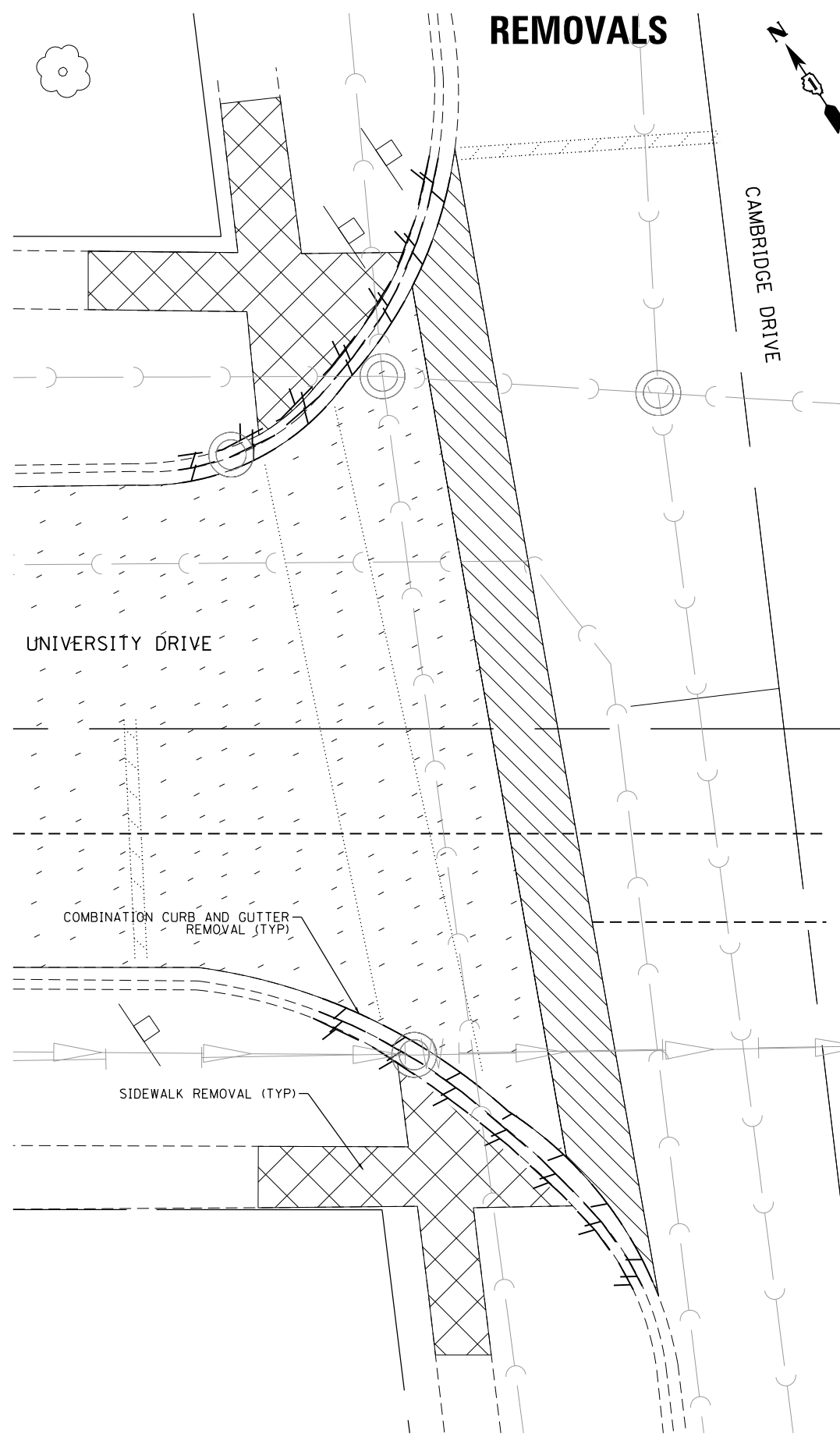


VILLAGE OF BUFFALO GROVE

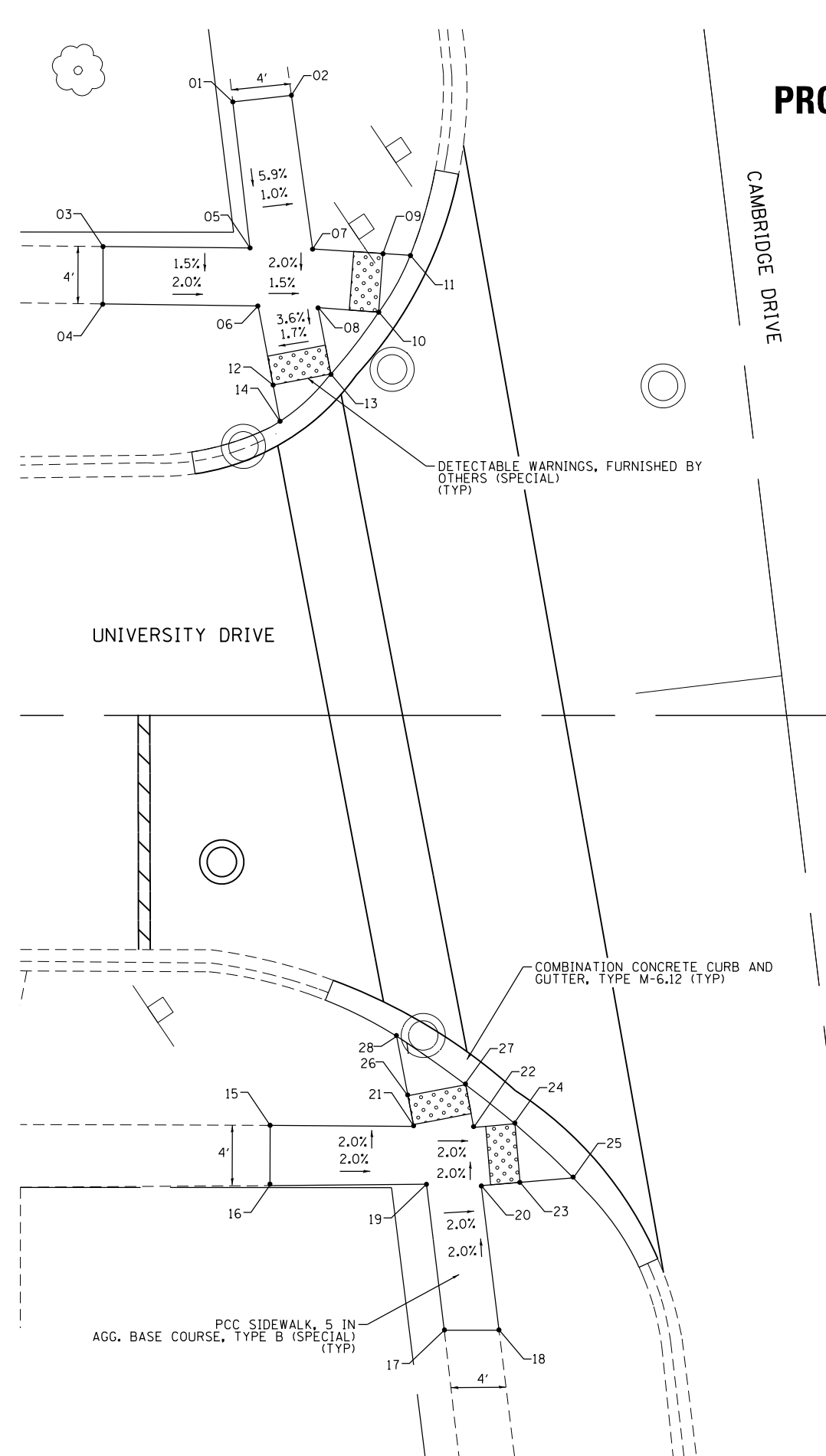
UNIVERSITY DRIVE ADA RAMP IMPROVEMENT PLAN		MUN. R.T.E. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 26
SCALE: 1"=5'	SHEET 3 OF 5 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS		

MUN. R.T.E. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 26
CONTRACT NO.				

REMOVALS

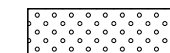

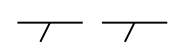


PROPOSED



CAMBRIDGE DRIVE INTERSECTION (WEST)			
POINT No. :	STATION	OFFSET	ELEV.
1	121+58.45	41.73' LT	669.43
2	121+62.43	42.19' LT	669.25
3	121+49.63	31.90' LT	669.14
4	121+49.62	28.00' RT	668.98
5	121+59.62	31.80' LT	668.84
6	121+60.17	27.85' LT	668.78
7	121+63.87	31.74' LT	668.80
8	121+64.24	27.74' LT	668.72
9	121+68.66	31.42' LT	668.78
10	121+69.37	27.43' LT	668.69
11	121+70.52	31.30' LT	668.77
12	121+61.19	22.48' LT	668.48
13	121+65.12	23.22' LT	668.55
14	121+61.66	20.00' LT	668.43
15	121+60.98	27.88' RT	668.80
16	121+60.97	31.98' RT	668.94
17	121+72.82	41.82' RT	668.79
18	121+76.55	41.82' RT	668.69
19	121+71.62	31.89' RT	668.56
20	121+75.35	32.00' RT	668.44
21	121+70.75	27.96' RT	668.44
22	121+74.83	28.02' RT	668.38
23	121+77.98	31.76' RT	668.42
24	121+77.63	27.78' RT	668.38
25	121+81.60	31.45' RT	668.40
26	121+70.35	25.87' RT	668.40
27	121+74.28	25.12' RT	668.32
28	121+69.58	21.82' RT	668.34

LEGEND

-  DETECTABLE WARNINGS (SPECIAL) OR DETECTABLE WARNINGS FURNISHED BY OTHERS (SPECIAL)
-  SIDEWALK REMOVAL
-  LINEAR ITEM REMOVAL



USER NAME = DMcginley	DESIGNED - MC	REVISED -
	DRAWN - MC	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DB	REVISED -
PLOT DATE = 7/24/2019	DATE - 07/25/2019	REVISED -



VILLAGE OF BUFFALO GROVE

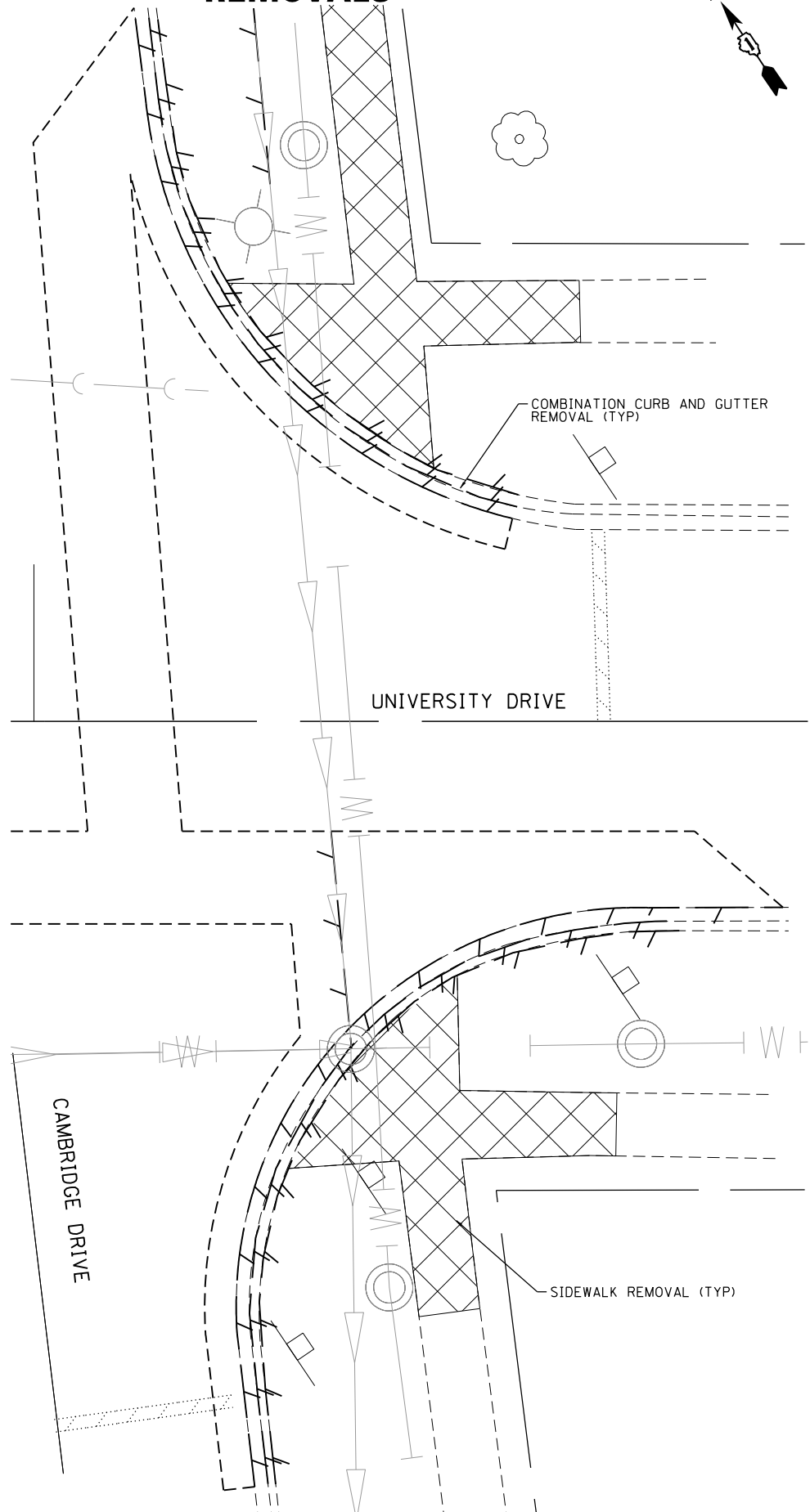
UNIVERSITY DRIVE
ADA RAMP IMPROVEMENT PLAN

SCALE: 1"=5' SHEET 4 OF 5 SHEETS STA. N/A TO STA. N/A

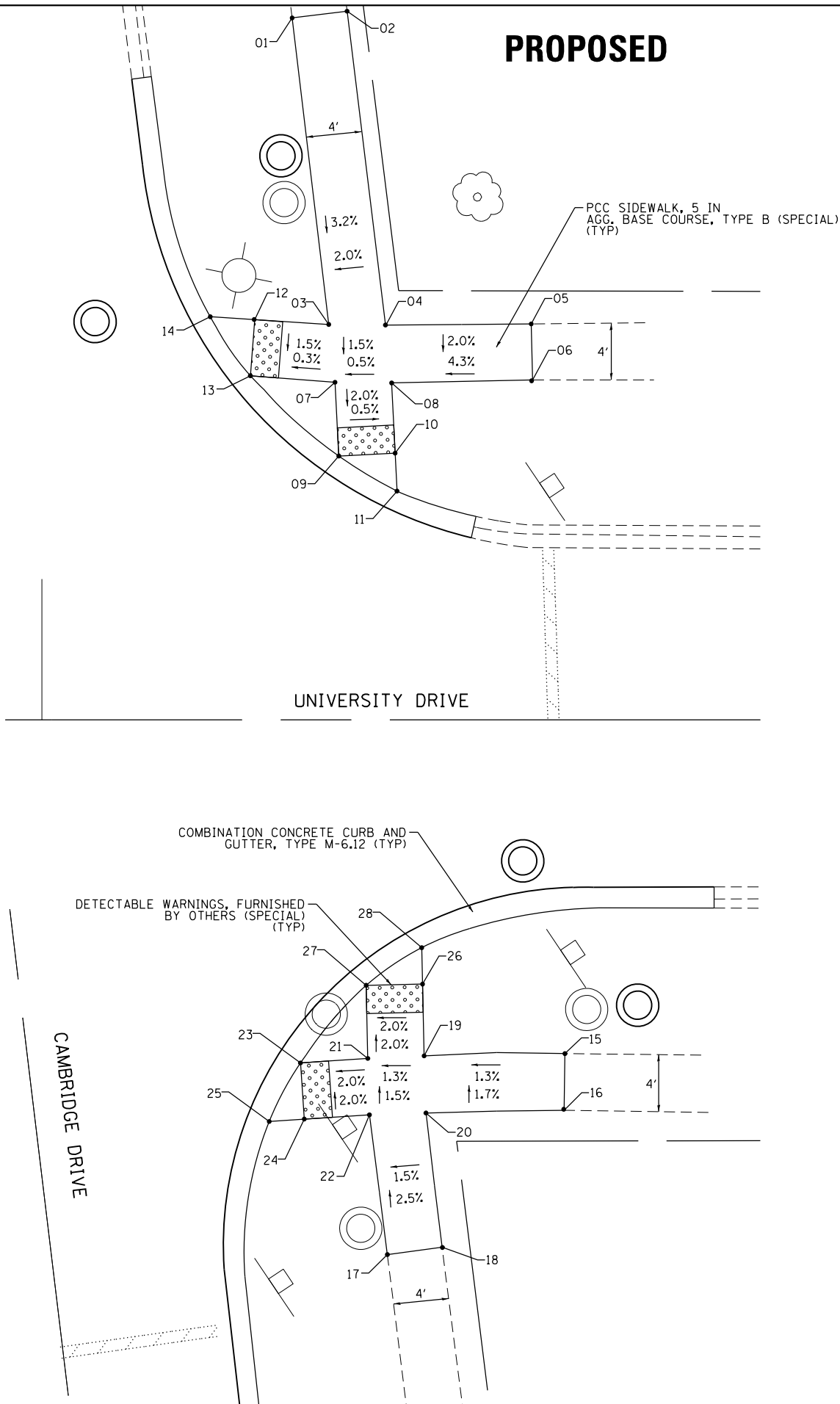
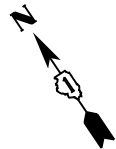
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	27
CONTRACT NO.				

ILLINOIS

REMOVALS



PROPOSED



CAMBRIDGE DRIVE INTERSECTION (EAST)			
POINT No. :	STATION	OFFSET	ELEV.
1	122+19.17	37.99' RT	669.37
2	122+23.16	37.94' RT	669.51
3	122+20.35	28.06' LT	668.76
4	122+24.38	28.02' LT	668.80
5	122+34.72	28.09' LT	669.15
6	122+34.81	24.13' LT	669.03
7	122+20.80	23.96' LT	668.70
8	122+24.82	23.91' LT	668.72
9	122+21.07	18.72' LT	668.60
10	122+25.06	18.93' LT	668.58
11	122+25.20	16.24' LT	668.54
12	122+15.04	28.41' LT	668.74
13	122+14.79	24.42' LT	668.68
14	122+11.95	28.61' LT	668.71
15	122+37.11	23.67' RT	668.46
16	122+37.05	27.69' RT	668.66
17	122+24.51	37.93' RT	668.59
18	122+28.40	37.41' RT	668.65
19	122+27.12	23.83' RT	668.33
20	122+27.25	27.89' RT	668.40
21	122+23.12	24.01' RT	668.28
22	122+23.24	28.02' RT	668.34
23	122+18.35	24.33' RT	668.18
24	122+18.62	28.32' RT	668.26
25	122+16.13	28.49' RT	668.24
26	122+27.00	18.74' RT	668.30
27	122+23.00	18.83' RT	668.22
28	122+26.95	16.16' RT	668.28

LEGEND

- DETECTABLE WARNINGS (SPECIAL) OR DETECTABLE WARNINGS, FURNISHED BY OTHERS (SPECIAL)
- SIDEWALK REMOVAL
- LINEAR ITEM REMOVAL



USER NAME = DMcginley	DESIGNED - MC	REVISED -
	DRAWN - MC	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - DB	REVISED -
PLOT DATE = 7/24/2019	DATE - 07/25/2019	REVISED -

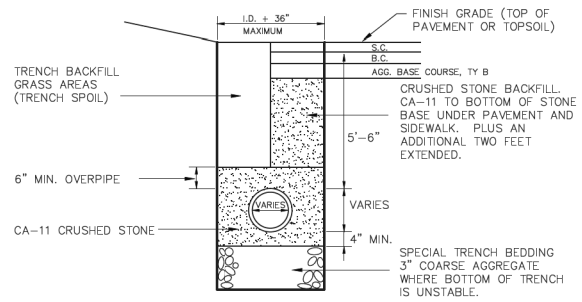


VILLAGE OF BUFFALO GROVE

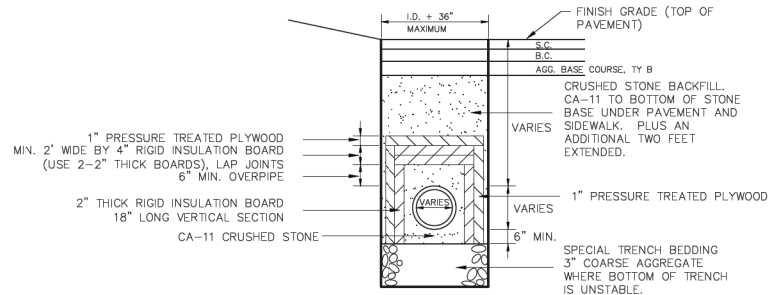
UNIVERSITY DRIVE ADA RAMP IMPROVEMENT PLAN	
SCALE: 1"=5'	SHEET 5 OF 5 SHEETS STA. N/A TO STA. N/A

MUN. RTE. 4220	SECTION	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 28
CONTRACT NO.				

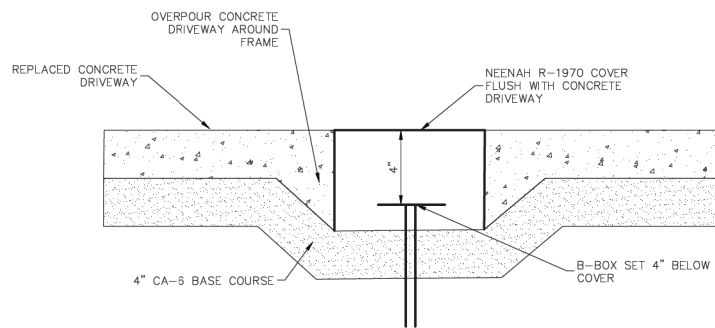
ILLINOIS



WATERMAIN TRENCH DETAIL

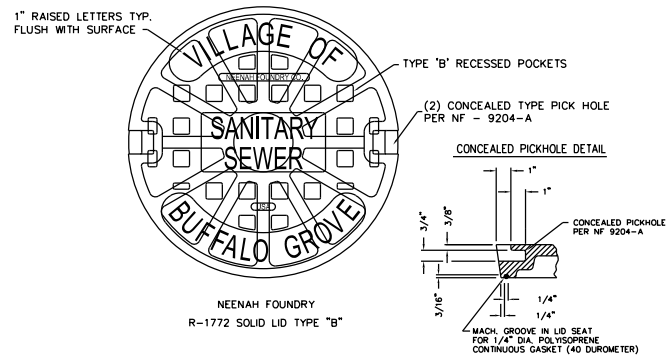


WATERMAIN INSULATION TRENCH DETAIL

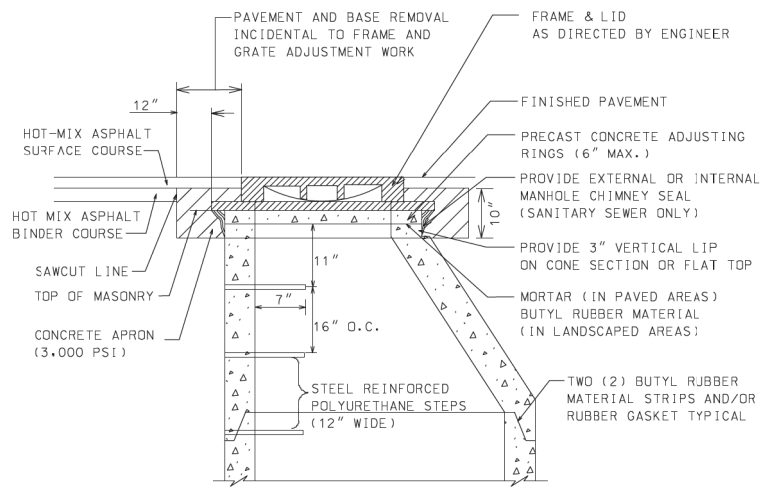


WATER SERVICE IN DRIVEWAYS

EXHIBIT NO. 301



SANITARY SEWER MANHOLE LID DETAIL

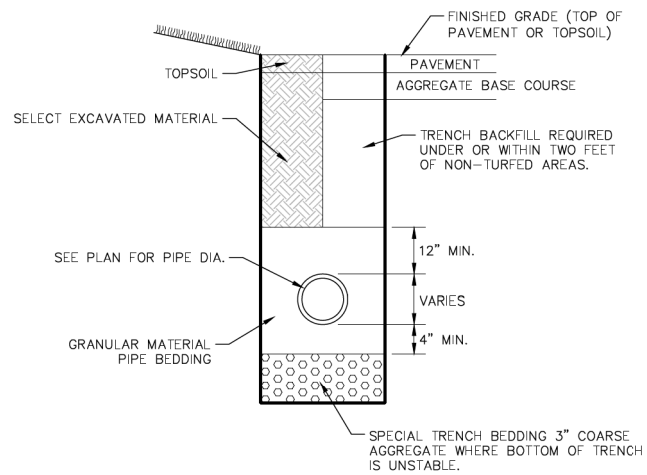


NOTE:
THE REQUIRED MANHOLE FRAME AND GRATE ADJUSTMENTS, DUE TO THE PAVEMENT RESURFACING, INCLUDING POURING OF CONCRETE APRON, SHALL BE PERFORMED BEFORE PLACING HOT-MIX ASPHALT SURFACE COURSE.

STRUCTURE FRAME & GRATE ADJUSTMENT DETAIL

NOTE:
SEE SANITARY TABLE FOR MATERIAL REQUIREMENTS.

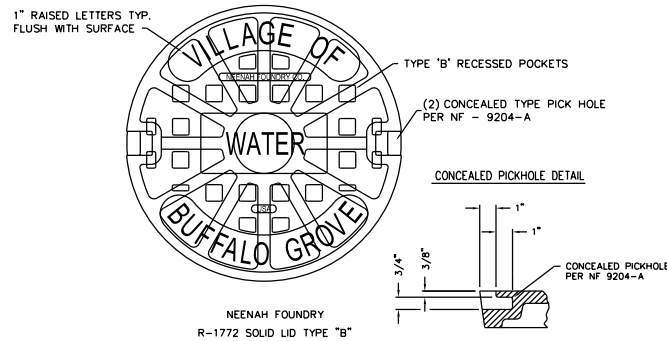
TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH > 5 FT.



SANITARY TRENCH DETAIL

03.15.2016

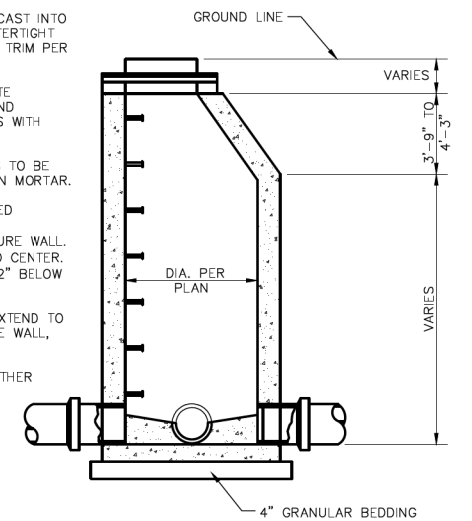
EXHIBIT NO. 401



VALVE VAULT LID DETAIL

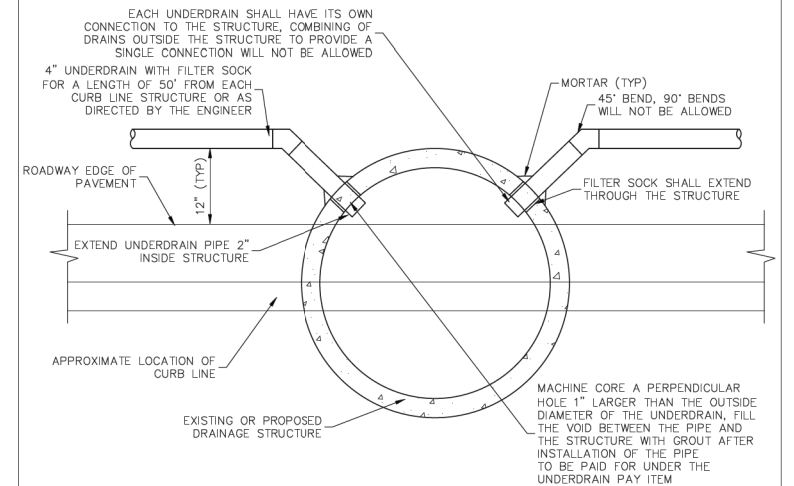
NOTES:

- EXTERIOR NEOPRENE CHIMNEY SEAL STAINLESS STEEL TRIM PER ASTM C-923.
- PIPE OPENINGS SHALL BE PRECAST INTO WALLS. CAST IN RESILIENT WATERTIGHT SLEEVE WITH STAINLESS STEEL TRIM PER ASTM C-923.
- PRECAST REINFORCED CONCRETE SECTIONS PER ASTM C-478 AND PREFORMED BITUMINOUS JOINTS WITH INTEGRAL PRECAST BOTTOMS.
- FINAL ADJUSTMENT TO FRAMES TO BE DONE WITH STEEL SHIMS SET IN MORTAR.
- STEPS TO BE STEEL REINFORCED PLASTIC.
 - IMBEDDED 3" INTO STRUCTURE WALL.
 - SPACED AT 16" CENTER TO CENTER.
 - FIRST STEP LOCATED 8"-12" BELOW FRAME.
- PRECAST PCC BENCH SHALL EXTEND TO CROWN AND SLOPE TO OUTSIDE WALL, SMOOTH FINISH.
- SEE SANITARY TABLE FOR FURTHER REQUIREMENTS.

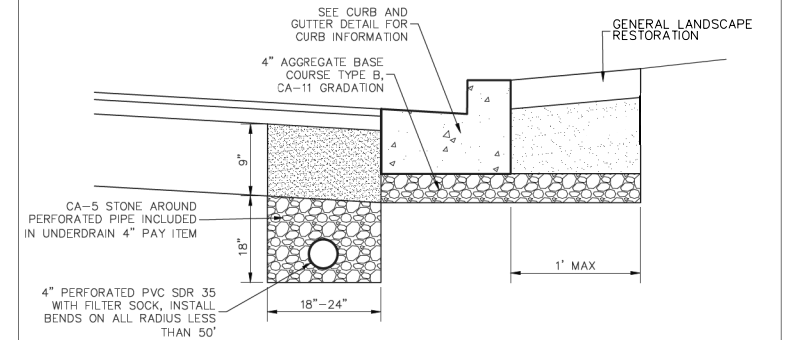


SANITARY MANHOLE

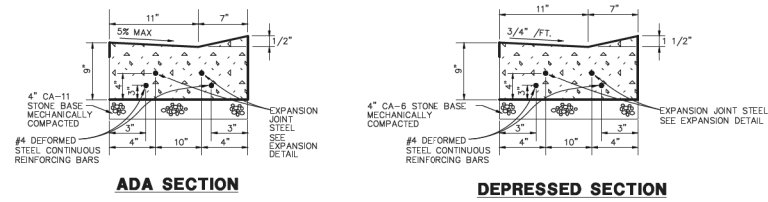
DIM	MIN. THICKNESS
48"	4"
60"	5"
72"	6"



UNDERDRAIN IN FRONT OF CURB DETAIL



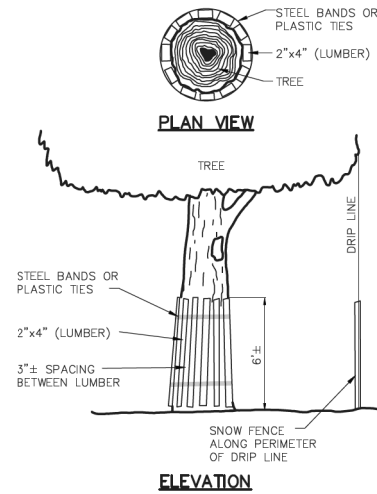
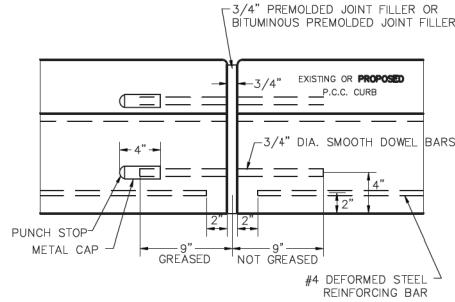
UNDERDRAIN DETAIL



NOTE:

1. SET EXPANSION JOINTS AT ALL PC'S, PT'S, FIVE FEET ON EITHER SIDE OF ANY FRAMES, AND AT 45' MAX. INTERVALS.
2. SAW CUT CONTRACTION JOINTS FULL FACE AND TOP, AT LEAST 2 INCHES IN DEPTH AND AT 15' MAXIMUM INTERVALS WITHIN 24 HOURS OF POURING.
3. CURING COMPOUND REQUIRED.

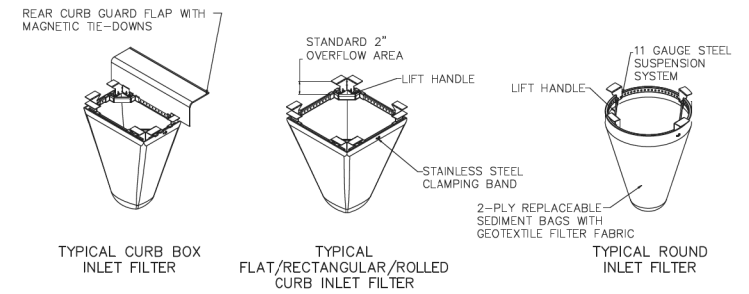
CURB & GUTTER



NOTES:

1. EXISTING VEGETATION WHICH IS TO REMAIN IN PLACE SHALL BE PROTECTED AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING BY STOCKPILING OF CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN THE DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC OR PARKING OF VEHICLES WITHIN THE DRIP LINE.
2. ALL TREES TO REMAIN SHALL BE PROTECTED WITH A SNOW FENCE INSTALLED AROUND THE PERIMETER OF THE TREE'S DRIP LINE. ANY CONSTRUCTION INSIDE THE DRIP LINE OF THE TREE REQUIRES ROOT PRUNING PRIOR TO THE EXCAVATION.
3. EXISTING VEGETATION WHICH IS TO REMAIN IN PLACE SHALL BE WATERED AS REQUIRED TO MAINTAIN ITS HEALTH DURING THE COURSE OF CONSTRUCTION OPERATIONS.
4. PROTECTION SHALL BE PROVIDED FOR ROOTS OVER 1 1/2" IN DIAMETER WHICH ARE CUT DURING CONSTRUCTION OPERATIONS. WHENEVER SUCH A ROOT IS CUT, THE CUT FACES SHALL BE COATED WITH AN EMULSIFIED ASPHALT OR OTHER ACCEPTABLE COATING SPECIALLY FORMULATED FOR HORTICULTURAL USE ON DAMAGED OR CUT PLANT TISSUES. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH WET BURLAP TO PREVENT THE ROOTS FROM DRYING OUT. EXPOSED ROOTS SHALL BE PROVIDED WITH EARTH COVER AS SOON AS POSSIBLE.
5. VEGETATION THAT BECOMES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN A MANNER ACCEPTABLE TO THE VILLAGE.
6. DAMAGED TREES SHALL BE REPAIRED BY A QUALIFIED TREE SURGEON. DAMAGED TREES WHICH CANNOT BE REPAIRED AND RESTORED TO FULL GROWTH STATUS, AS DETERMINED BY THE TREE SURGEON, SHALL BE REPLACED.

TREE PROTECTION DETAIL



ACCEPTABLE MANUFACTURER'S AS LISTED BELOW 1. NLET & PIPE PROTECTION, INC. Naperville, IL 60564 847 722-0990
2. MARATHON MATERIALS, INC. Plainfield, IL 60544 800-983-9493

MAINTENANCE
1. CLEAN OUT AFTER EVERY RAIN EVENT

Material Property	Test Method	Value (min. ave.)
> Inner Filter Bag Spect (210 min. vol)		Non-Woven Woven Mono
Grab Tensile	ASTM D 4632	100 lbs 200 lbs
Puncture Strength	ASTM D 4833	65 lbs 90 lbs
Trapezoidal Tear	ASTM D 4535	45 lbs 75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs 90%
App. Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm) 40 sieve (.425 mm)
Premittivity	ASTM D 4491	2.0/sec. 2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft. 145gpm/sqft
> Polyester Outer Reinforcement Bag Specifications		
Weight	ASTM D 3776	4.55 oz/sqyd +/-15%
Thickness	ASTM D 1777	.040 +/- .005
> Frame Construction		
A36 Structural Steel	ASTM A 576	Tensile Strength > 58,000 psi
11 Gauge, Zinc Plated		Yield Strength > 36,000 psi

INLET FILTER BASKET DETAIL

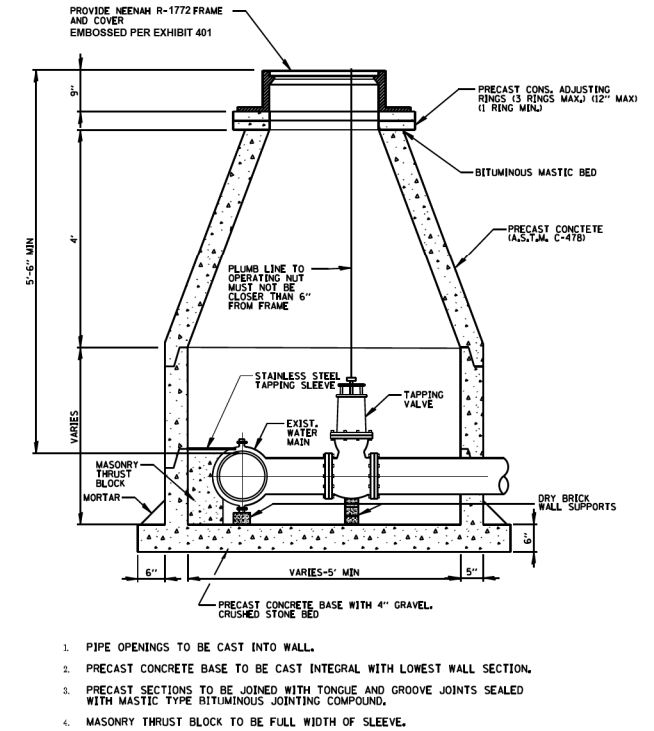
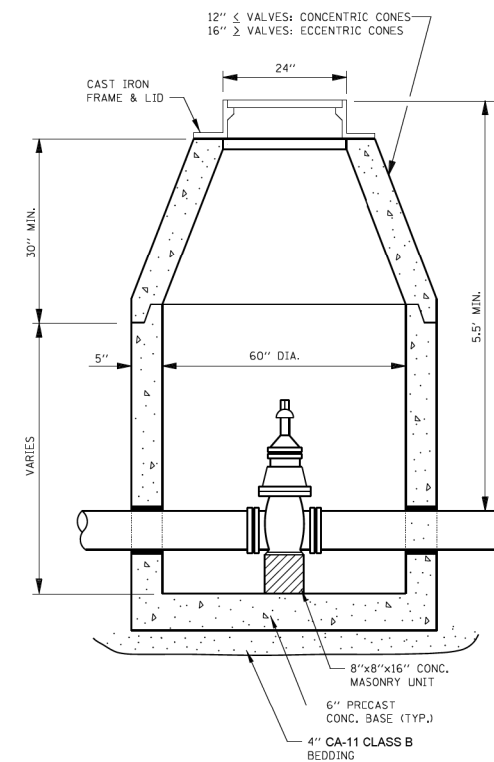
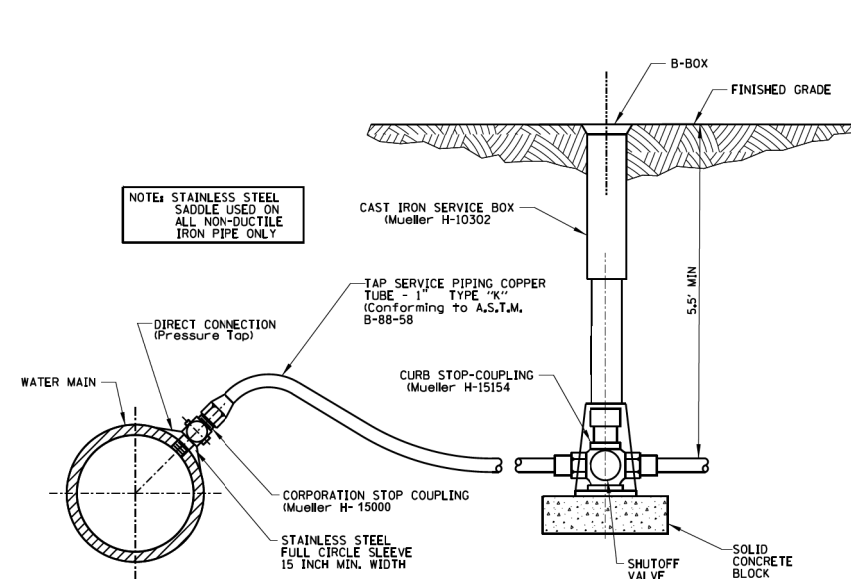
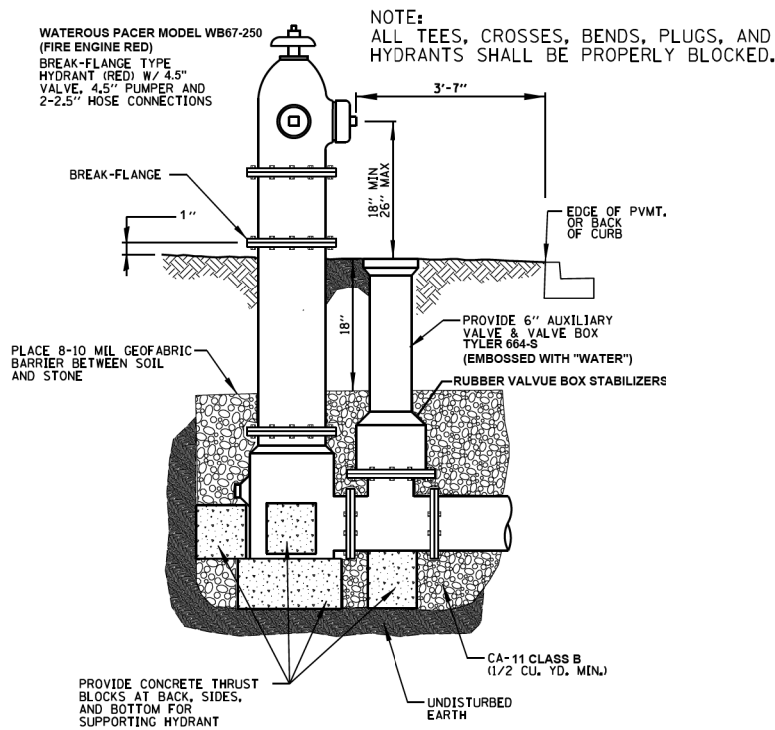
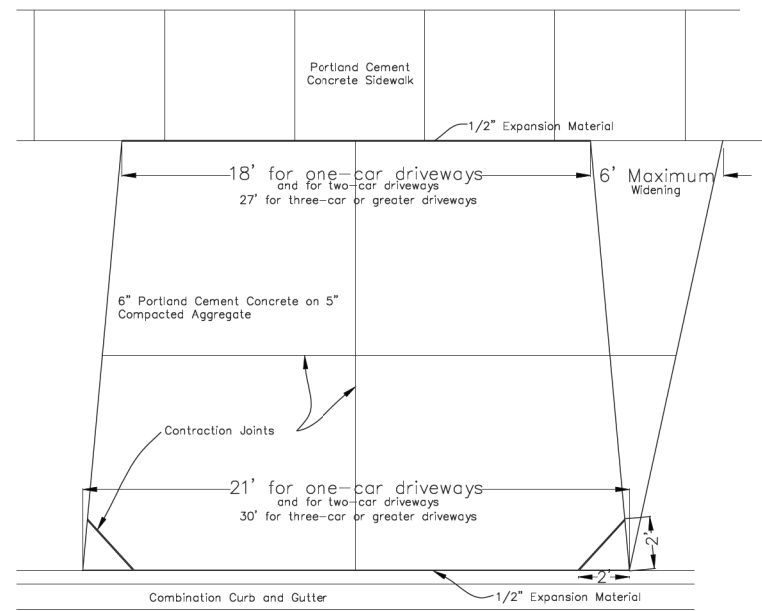


EXHIBIT NO. 503

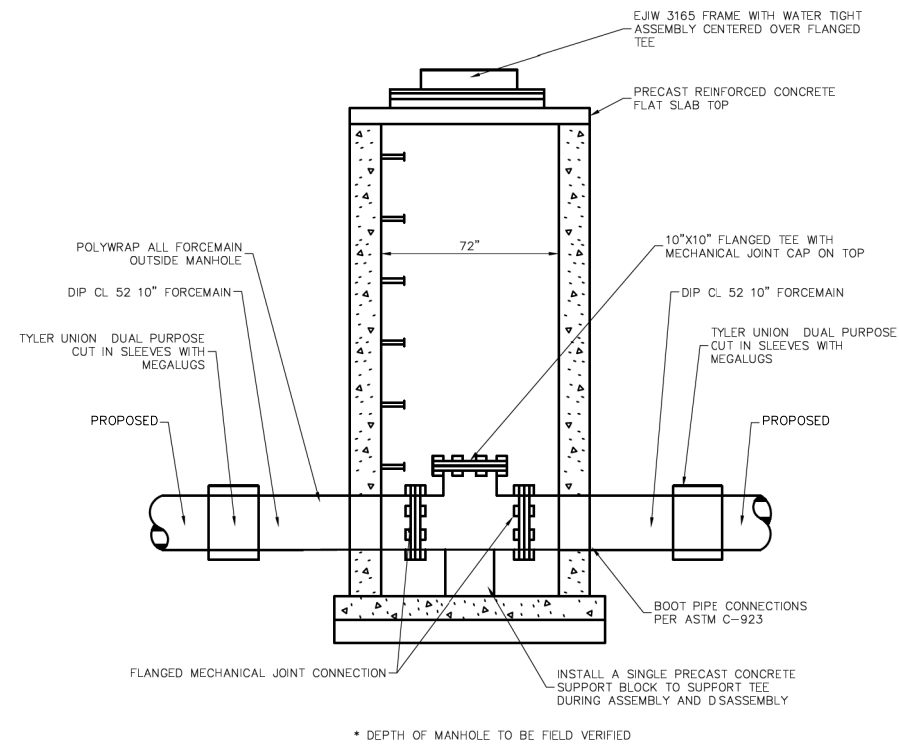


DRIVEWAY APRON DETAIL

NOTE:

1. Contraction joint depth shall be 1-1/4" minimum.
2. Contraction joint shall divide the apron into slabs approximately square with no side longer than 15'.
3. Minimum apron width is 10' at the sidewalk.

Prepared by the Village Engineering Division



FORCEMAIN INSPECTION MANHOLE



USER NAME = DMcglinney
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 7/24/2019

DESIGNED - MC
 DRAWN - MC
 CHECKED - DB
 DATE - 07/25/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -



VILLAGE OF BUFFALO GROVE

UNIVERSITY DRIVE
 VILLAGE DETAILS

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4220		COOK	31	31
CONTRACT NO.				

ILLINOIS