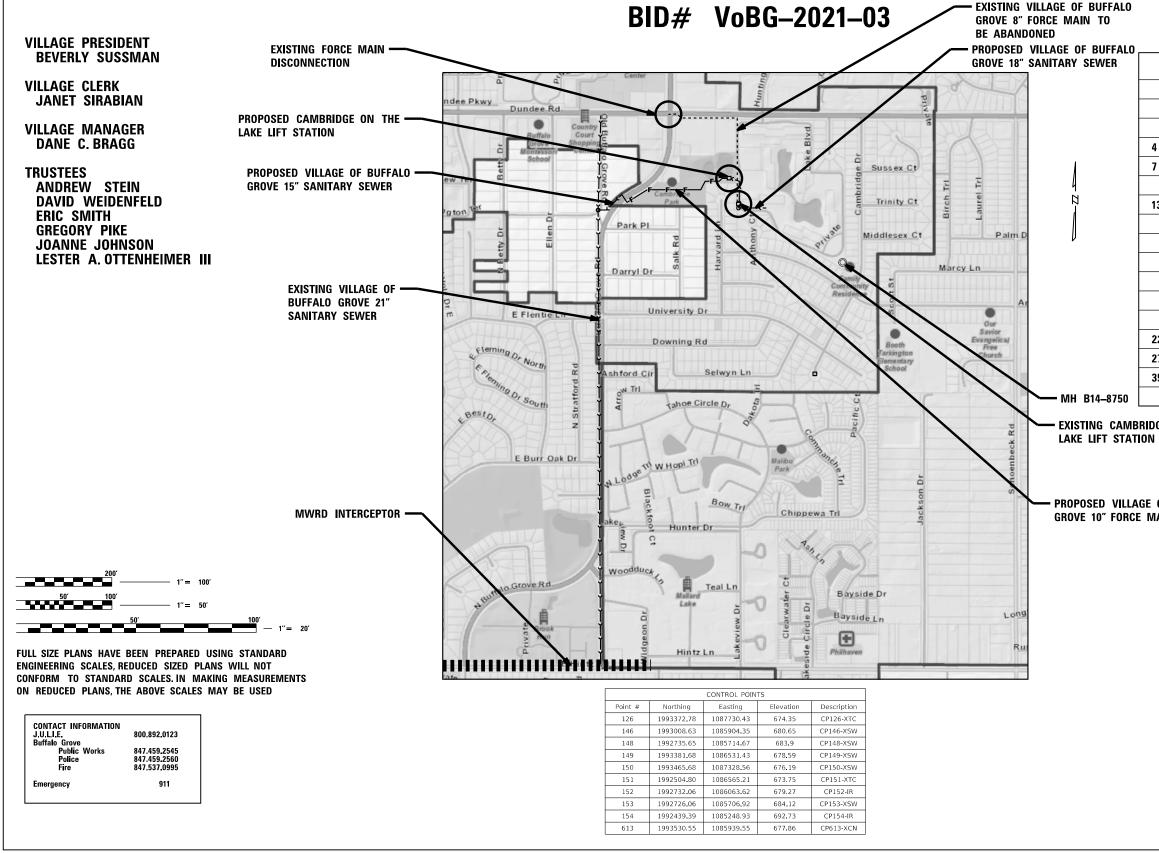
VILLAGE OF BUFFALO GROVE CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION



| | INDEX OF SHEETS |
|---------|--|
| 1 | Cover Sheet |
| 2 | Legend and General Notes |
| 3 | MWRD and Maintenance Notes |
| 4 - 6 | Existing Conditions and Removal Plan |
| 7 – 11 | Utility Plan and Profile |
| 12 | Utility Crossing Tables |
| 13 – 15 | Erosion Control and Restoration Plan |
| 16 | Lift Station Existing Conditions and Demolition Plan |
| 17 | Proposed Lift Station Plan and Details |
| 18 | Site Grading, Drainage, and Access Road Plan |
| 19 | Electrical Site Plan and Schedule |
| 20 | One Line Diagram and Electrical Details |
| 21 | Electrical Details |
| 22 – 26 | Village Details |
| 27 – 34 | IDOT Details |
| 35 - 36 | Erosion Control Details |
| 37 | Volume Control Storage Below Detention Basin Outlet |

EXISTING CAMBRIDGE ON THE

PROPOSED VILLAGE OF BUFFALO GROVE 10" FORCE MAIN

062-059493 LICENSED PROFESSIONAL ENGINEER OF

DATE: 10/29/2021 SEAL EXPIRES: 11/30/2021

SHEETS 1 - 18, SHEETS 27 - 37



DATE: 10/29/2021 SEAL EXPIRES: 11/30/2021

SHEETS 19 - 21



GENERAL NOTES:

- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E (DIAL 1-800-892-0123) 48 HOURS PRIOR TO ANY EXCAVATION WORK TO DETERMINE THE LOCATIONS OF EXISTING UTILITIES.
- THE VILLAGE OF BUFFALO GROVE, AND THEIR DESIGNATED AGENTS SHALL BE NOTIFIED BY THE CONTRACTOR 48 2. HOURS PRIOR TO STARTING CONSTRUCTION.
- З. DO NOT SCALE DRAWINGS FOR CONSTRUCTION DIMENSIONS.
- THE ENGINEER PLEDGES THE DESIGN, RECOMMENDATIONS, AND SPECIFICATIONS TO HAVE BEEN PREPARED IN ACCORDANCE WITH CONDITIONS GENERALLY ENCOUNTERED IN THE INDUSTRY. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY WITH RESPECT TO THE DESIGN RECOMMENDATIONS AND SPECIFICATIONS FOR COMPLEX OR UNUSUAL SOIL CONDITIONS ENCOUNTERED ON THE PROJECT. IT SHALL BE THE BIDDERS' RESPONSIBILITY TO ASCERTAIN THE EXACT NATURE OF SUBSURFACE CONDITIONS PRIOR TO THE CONSTRUCTION OF THE IMPROVEMENTS.
- THE LOCATION OF EXISTING UTILITIES, EASEMENTS, AND RIGHT-OF-WAYS ARE SHOWN ON THESE PLANS ACCORDING TO SURVEYS CARRIED OUT AND REPRESENT THE BEST INFORMATION MADE POSSIBLE TO THE ENGINEER. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO PROVIDE FOR THEIR PROTECTION FROM DAMAGE DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE OWNERS'S REPRESENTATIVE AT THE CONTRACTOR'S COST. IF OTHER UTILITIES OR CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED
- BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LINE AND GRADES SHOWN ON THE CONTRACT DRAWINGS. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONTRACT DRAWINGS CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE OWNER PRIOR TO PERFORMING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK REQUIRED.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF: A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", LATEST EDITION.
- "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", LATEST EDITION OWNER AND CURRENT MUNICIPAL CODES.
- NATIONAL ELECTRIC CODE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELE OF 8. ALL CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS THE TOTAL COST FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED DUE TO THE CONTRACTOR'S FAILURE TO UNDERSTAND THE SCOPE OF WORK.
- THE CONTRACTOR, AT HIS EXPENSE, SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND BONDS FOR CONSTRUCTION ALONG OR ACROSS EXISTING ROADWAYS WITHIN THE PROJECT SITE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROPER BRACING, SHORING, OR OTHER PROTECTION REQUIRED, INCLUDING INSTALLATION AND MAINTENANCE OF ADEQUATE TRAFFIC CONTROL AND PROTECTION BEFORE CONSTRUCTION BEGINS. ALL WORK CONDUCTED SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE PORTIONS OF THE LATEST EDITION OF THE "ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (IL STANDARD SPECIFICATIONS), SUPPLEMENTAL SPECIFICATIONS AND RECURRING L PROVISIONS, AND THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONTRACTORS' MEANS, METHODS, TECHNIQUES, SEQUENCES, OR 10. PROCEDURES OF CONSTRUCTION, OR THE SAFETY, PRECAUTIONS, AND PROGRAMS INCIDENT THERETO, AND THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONTRACTORS' FAILURE TO PERFORM OR FURNISH THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC. THE STANDARD SPECIFICATIONS SHALL APPLY. 11. APPROPRIATE CONTROL METHODS SHALL BE APPLIED TO THE SPECIFIC SITUATIONS AND TYPES OF CONSTRUCTION OPERATIONS BEING PERFORMED.
- 12. THE CONTRACTOR SHALL RESTORE SURFACES TO THE ORIGINAL PRE-CONSTRUCTION CONDITION IF DAMAGED BY CONSTRUCTION. ANY EXISTING CURB, PAVEMENT, OR SIDEWALK DISTURBED DURING THE CONSTRUCTION PROCESS IS TO BE REPLACED. UNPAVED AREAS ARE TO BE FINE GRADED AND SODDED UNLESS OTHERWISE NOTED. ALL EXCESS TRENCH MATERIAL IS TO BE REMOVED FROM THE SITE. THE COST OF SAID REPLACEMENT AND REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 13. ALL TRENCHES CAUSED BY THE CONSTRUCTION OF SEWERS, FORCEMAINS, WATERMAIN, WATER SERVICE PIPES AND ALL EXCAVATIONS AROUND CATCH BASINS, MANHOLES, INLETS, AND OTHER APPURTENANCES WHICH OCCUR WITHIN TWO FEET OF THE LIMITS OF EXISTING AND PROPOSED PAVEMENTS, SIDEWALKS, AND CURB AND GUTTERS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CRUSHED) (IDOT GRADATION CA-11) AND COMPACTED PROPERLY, OR AS SHOWN ON THE DETAILS. ANY DEPRESSIONS IN PAVEMENT AREAS THAT WERE REPLACED SHALL BE REMOVED AND CONSTRUCTED PROPERLY AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH THE APPROPRIATE STANDARD
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ABIDE BY, ADHERE TO, AND PERFORM ALL WORK IN 14. ACCORDANCE WITH THE REQUIREMENTS. SPECIFICATIONS, STANDARDS, PRACTICES, POLICIES, AND CODES OF THE OWNER WHICH INCLUDES, BUT IS NOT LIMITED TO, LABOR, MATERIALS, PROCEDURES, AND SAFETY.
- THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE MOST RECENT SET OF APPROVED FINAL ENGINEERING PLANS 15. WITH THE LATEST REVISION DATE ON THE IOB SITE PRIOR TO THE START OF CONSTRUCTION
- 16. NO HOLES ARE TO BE LEFT OPEN IN THE PAVEMENT OR PARKWAY OVER A HOLIDAY, WEEKEND, OR AFTER COMPLETION OF THE DAY'S ACTIVITIES ON THE DAY PRECEDING A HOLIDAY OR A WEEKEND.
- ANY CHANGES, REVISIONS, OR SUBSTITUTIONS TO THE PLANS, SPECIFICATIONS, MATERIALS, REQUIREMENTS, OR WORK SHALL BE SUBMITTED TO THE OWNER, IN WRITING, WITH WRITTEN APPROVAL BY THE OWNER RECEIVED PRIOR TO BEGINNING SAID WORK. ALL MATERIALS AND CONSTRUCTION WHETHER IMPLICITLY OR EXPLCITLY STATED OR COVERED WITHIN THE REQUIREMENTS, CODES OR SPECIFICATIONS, SHALL BE APPROVED BY THE OWNER, PRIOR TO COMMENCING THE INSTALLATION AND CONSTRUCTION.
- 18. THE DESIGN OF PROPOSED LIFT STATION AND FORCEMAIN AND THE LOCATIONS AND ELEVATIONS OF EXISTING ILITIES ARE SHOWN BASED ON INTERPRETATION OF INFORMATION RECEIVED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING WATERMAIN, SANITARY AND STORM SEWER, AND UTILITIES PRIOR TO INSTALLATION OF LIFT STATION OR FORCEMAIN
- 19. NO EXTRA WORK OF ANY NATURE SHALL BE UNDERTAKEN WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES AND STORAGE OF EQUIPMENT OR MATERIALS TO THE 20. DESIGNATED OR APPROVED WORK CONSTRUCTION LIMITS. ANY DAMAGE TO PRIVATE PROPERTY SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE
- PROPOSED EQUIPMENT, CONDUITS, ETC. ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT SIZES, LOCATIONS, ROUTING, ETC. VERIFY ALL LOCATIONS / ROUTING WITH

- 22. ANY AND ALL DEWATERING REQUIRED TO KEEP EXCAVATIONS DRY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SPOILS SHALL BE PROMPTLY REMOVED FROM SITE.
- LIMITS OF CONSTRUCTION SHALL BE SUBJECT TO OWNER'S APPROVAL AND SHALL NOT IMPACT EXISTING 23. ROADWAY PAVEMENT EXCEPT WHERE IMPROVEMENTS ARE SHOWN BY DRAWINGS. LIMITS OF CONSTRUCTION (OTHER THAN ACROSS ROADWAY PAVEMENT) SHALL BE FENCED OFF AT THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE SPECIFICATIONS.

PROJECT SPECIFIC NOTES

- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY'S CODE AS WELL AS THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY, AND THEIR AGENTS, FROM ALL 2. LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2, 3/4" X 18" PLAIN ROUND, STEEL DOWEL BARS SHALL 3. BE INSTALLED IN ALL CURBS AT (45') FORTY FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'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 15 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 @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS, AND BUILDING. 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 NOTED OTHERWISE
- ALL PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. ALL SUBGRADE IN LAWN 6. AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE VILLAGE ENGINEER OR AUTHORIZED

CONSTRUCTION MANAGEMENT REOUIREMENTS

- CONTRACTOR SHALL SUBMIT A MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL PLAN AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO BEGINNING ANY WORK. THE PLAN SHALL INCLUDE TEMPORARY TRAFFIC CONTROL MEASURES INCLUDING TRAFFIC FLOW, PARKING, AND ACCESS, AND INCLUDE ANY DETOURS. SIGNAGE, BARRIERS, COORDINATION, MAINTENANCE OF THE PLAN, AND ANY WORK NECESSARY TO LIMIT DISRUPTION OF ADJACENT PROPERTIES, ALL COST ASSOCIATED WITH TRAFFIC CONTROL SHALL BE INCLUDED IN THE COST OF THE VARIOUS ITEMS OF WORK BID.
- ACCESS MUST BE PROVIDED FOR VILLAGE PERSONNEL TO ENTER PROJECT SITE AND TAKE ACTION IN EMERGENCY 2. OR VIOLATION SITUATIONS.
- SITE SECURITY FENCING IS REQUIRED AROUND LIFT STATION SITE, BORE AND JACK PITS, AND ANY OPEN з. EXCAVATIONS ALLOWED BY THE VILLAGE. A SITE PLAN MUST BE SUBMITTED THAT SHOWS THE PROPOSED LOCATION OF THE SECURITY FENCING TO BE PROVIDED DURING CONSTRUCTION. FENCING SHALL BE CONSTRUCTED OF SIX-FOOT HIGH CHAIN LINK FENCING LOCATED AT THE LIMITS OF CONSTRUCTION
- 4 THE FENCING MUST BE GATED AND THE GATE LOCKED WITH A SHARED LOCK AT THE END OF EVERY WORKDAY OR WHEN NO RESPONSIBLE PERSONS ARE ON SITE. FAILURE TO LOCK THE FENCE WILL RESULT IN A ONE-DAY STOP ORDER AND REQUIRE THE PAYMENT OF \$100 LOCKING SERVICE FEE TO REMOVE THE VILLAGE'S LOCK.
- DUMPSTERS AND PORTABLE TOILETS ARE REQUIRED. A PLAN MUST BE SUBMITTED WHICH INDICATES THE PROPOSED LOCATIONS OF THE DUMPSTER AND PORTABLE TOILET. ALL DUMPSTERS MUST BE COVERED AND ENCLOSED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE RESTORATION OF ALL OFF-SITE AREAS DISTURBED IN 6. CONJUNCTION WITH THE PERMITTED CONSTRUCTION ACTIVITY.
- SIDEWALKS, PARKING LOTS, AND OTHER PUBLIC AND PRIVATE PROPERTY MUST BE KEPT SAFE AND FREE FROM 7 MUD, DIRT, DEBRIS, AND SWEPT DAILY.

VILLAGE OF BUFFALO GROVE NOTES

- FRAMES, LIDS, GRATES, VALVES, FIRE HYDRANTS, ECT. WHICH ARE ABANDONED OR REPLACED IN THIS PROJECT SHALL BE SALVAGED AND REMAIN PROPERTY OF THE VILLAGE OF BUFFALO GROVE. THE CONTRACTOR SHALL COORDINATE DELIVERY TO 51 RAUPP BLVD WITH THE ENGINEER. ANY DAMAGE TO THE SALVAGED ITEMS DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, 2. REGULATIONS, AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR ROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY, OR LOSS.
- ANY EARTH EXCAVATION DONE WITH REMOVAL OR FRAMING OF DRIVEWAY OR SIDEWALK IS INCIDENTAL TO THAT 3. ITEM
- 4. 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 5. RE-ERECTED ON THE SAME DAY TO THE SATISFACTION OF THE ENGINEER
- ANY BRANCHES THAT REQUIRE TRIMMING FOR EQUIPMENT CLEARANCE/CONSTRUCTION OPERATIONS SHALL BE DONE IN ACCORDANCE WITH THE IDOT DISTRICT ONE DETAIL "PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE" AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT. ALL ADDITIONAL TREE TRIMMING MUST
- 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.
- ALL MISHANDLED OR DAMAGED MATERIALS AS INSPECTED BY THE ENGINEER WILL BE MARKED WITH SPRAY PAINT. 8 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.
- BACKELL IN TURE AREAS MAY LITUIZE THE EXISTING SUBGRADE ANY SETTLEMENT WITHIN THE WARRANTY 9 PERIOD AS DESCRIBED IN THE SPECIFICATIONS SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S 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.

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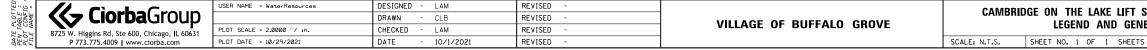
WATER MAIN

RESTRAINED PUSH-ON JOINT

PROPOSED

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LEGEND: BUILDINGS FIRE HYDRANT Y RIGHT-OF-WAY ------POWER POLE ROADWAY PLAN-PAVED 0 CATCH BASIN ROADWAY PLAN-UNPAVED α LIGHT POLE CENTERLINE \bigcirc MANHOLE FASEMENT 0 CATCH BASIN EDGE OF EXISTING PAVEMENT INLET FENCE 0 MISCELLANEOUS POST TELEPHONE LINE BIT BITUMINOUS PAVEMENT GAS MAIN CONCRETE PAVEMENT CONC WATER MAIN ۵ BENCHMARK ELECTRIC LINE -BORINGS COMBINED SEWER MONITORING WELL . SANITARY SEWER DECIDUOUS TREE \odot STORM SEWER SUMMIT _____S/L____ STREET LIGHTS DIRECTION OF DRAINAGE \otimes VALVE VAULT TREELINE \otimes VALVE BOX - VB TRAFFIC SIGNAL STREET CENTERLINE VAULT (Electric Utilities) TELEPHONE POLE SIGN (S) ----- CONSTRUCTION LIMITS ABANDON AND REMOVE UTILITY ۲ LINE STOP — x — x — x — FENCE _____ SILT FENCE ۲ MANHOLE ----- FORCE MAIN (\mathbf{R}) VALVE VAULT - (\leftarrow combined sewer VALVE BOX - VB X TREE REMOVAL -(— SANITARY SEWER \Leftrightarrow STORM SEWER INLET FILTER

SOIL EROSION CONTROL NOTES:

ANY STORM WATER DRAINAGE STRUCTURES THAT HAVE THE POTENTIAL TO ACCEPT RUNOFF CONTAINING SUSPENDED SOIL PARTICLES FROM THE LIMITS OF CONSTRUCTION SHALL HAVE INLET FILTERS INSTALLED DIRECTLY ON OR UNDER THE GRATE OF THE DRAINAGE STRUCTURE

(tp)

TREE PROTECTION

IF APPLICABLE, SILT FENCE SHALL BE USED FOR PREVENTION OF SILT/SEDIMENT FROM LEAVING THE SITE. SILT FENCE SHALL BE MODIFIED AS NECESSARY TO ACCOMMODATE THE PHASING OF THE CONSTRUCTION AND REPAIRED/REPLACED AS BECOMES NECESSARY. SILT FENCE WILL REMAIN IN PLACE UNTIL ALL REMAINING ITEMS OF THE PROJECT HAVE BEEN COMPLETED.

EXISTING PAVEMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY OR AS DIRECTED BY OWNER

DISPOSAL OF DEBRIS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT

EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ILLINOIS URBAN MANUAL, LATEST REVISION.

DEWATERING SHALL BE IN ACCORDANCE WITH SPECIFICATION 31 23 19 FILTRATION AND DISCHARGE LOCATION SHALL BE APPROVED BY THE VILLAGE.

CONTRACTOR SHALL INSPECT ALL SEDIMENTATION AND EROSION CONTROL MEASURES AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS. CONTRACTOR SHALL CLEAN AND REPAIR ITEMS WITHIN 24 HOURS OF INSPECTION AS NECESSARY TO MAINTAIN EFFECTIVE SEDIMENTATION AND EROSION CONTROL MEASURES.

LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OR MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF FACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.

PUMPS MAY BE USED AS BYPASS DEVICES BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE OF THE PROJECT LIMIT. ALL MPED WATER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SUPPLEMENTAL SEDIMENT CONTROL MEASURES.

CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.

PROPERLY MANAGE ALL MATERIAL, STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND MAINTENANCE AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.

12. WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

| | | | | | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|------|---|---------|---|------|----------|----------|-----------------|--------------|
| IERAL NOTES | | | | | | | COOK | 37 | 2 |
| | | | | | | • | CONTRACT | NO. 21 | 157.02 |
| S | STA. | - | TO STA. | - | | ILLINOIS | | | |

| | | A. REFERENCED SPECIFICATIONS 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS: | <u>PIPE MATERIAL</u> VITRIFIED CLAY PIPE | PIPE SPECIFICATIONS ASTM C-700 | JOINT SPECIFICATIONS ASTM C-425 | E. EROSION AND SEDIMENT CONTROL |
|---|--|--|---|---|--|--|
| | | 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 | REINFORCED CONCRETE SEWER PIPE | ASTM C-76 | ASTM C-443 | THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVI APPROVED EROSION AND SEDIMENT CONTROL PLAN. |
| | | SEWIED AND WATER MAIN CONSTRUCTION: | CAST IRON SOIL PIPE | ASTM A-74 | ASTM C-564 | 2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO |
| | | * 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 | DUCTILE IRON PIPE | ANSI A21.51 | ANSI A21.11 | DISTURBANCE OF THE SITE. 3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND S |
| | | 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. | Polyvinyl Chloride (PVC) Pipe 6-Inch to 15-Inch diameter SDR 26 18-Inch to 27-Inch diameter F/dy=46 | ASTM D-3034 5 ASTM F-679 | ASTM D-3212 ASTM D-3212 | PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL. |
| | | B. NOTIFICATIONS | HIGH DENSITY POLYETHYLENE (HDPE) | ASTM D-3350 ASTM D-3035 | ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED) | SITE AT ALL TIMES. 5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM: |
| <u>۳</u> | Πl | 1. 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). | WATER MAIN QUALITY PVC 4-INCH TO 36-INCH | ASTM D-2241 | ASTM D-3139 | a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASUF SOIL DISTURBANCE. |
| DA | | 2. THE VILLAGE OFBUFFALO GROVEENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS | 4-INCH TO 12-INCH 14-INCH TO 48-INCH | AWWA C900 AWWA C905 | ASTM D-3139 ASTM D-3139 | b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE EN WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PREC |
| BY | | 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. 3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE | THE FOLLOWING MATERIALS ARE ALLOW APPROVAL PRIOR TO PERMIT ISSUANCE. THE PIPE MATERIAL BELOW IS USED FOR | A SPECIAL CONDITION WI | LL BE ADDED TO THE PERMIT WHEN | 6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHA SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASU |
| | - | 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. C. GENERAL NOTES | PIPE MATERIAL POLYPROPYLENE (PP) PIPE | PIPE SPECIFICATIONS | JOINT SPECIFICATIONS | 7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLIN SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEA SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STR AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIC TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. |
| | | 1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR TO CITY OF CHICAGO DATUM IS NAVD88 ELEVATION - 579.19 FT. | 12-INCH TO 24-INCH DOUBLE WALL | ASTM F-2736 | D-3212, F-477 | 8, CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WIT |
| SURVEYED SURVEYED PLOTTED ALTOMENT CHECKED RT, OF WAY CHECKED | AME | 2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS. | 30-INCH TO 60-INCH TRIPLE WALL | ASTM F-2764 | D3212, F-477 | URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTI CONCRETE. |
| EVED | FILE | 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 | | | | MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONC FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION |
| ě | | ON THE PROJECT. 4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS | REQUIRES STONE BEDDING WITH STO TO 1/4 THE OUTSIDE DIAMETER OF TH | ONE ¼ " TO 1" IN SIZE, WIT E SEWER PIPE, BUT NOT LE | STRUCTION IN COMBINED SEWER AREAS), TH MINIMUM BEDDING THICKNESS EQUAL ESS THAN FOUR (4) INCHES NOR MORE | 10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT A HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS. |
| PLAN Note B | NO. | 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. | ABOVE THE TOP OF THE PIPE WHEN U 9. NON-SHEAR FLEXIBLE-TYPE COUPLING | SING PVC. | L-13 AND SHALL BE EXTENDED AT LEAST 12" | DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEM PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANEN SEVEN (7) DAYS. |
| | | 5. 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 | OF DISSIMILAR PIPE MATERIALS. | | | 13. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT). |
| | | ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS. 6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS | CAST INTO THE LID. | PICKHOLE AND WATERTIGH | IT GASKET WITH THE WORD "SANITARY" | 14. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE DRAINAGE AREA HAS BEEN STABILIZED. |
| | | AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. | 11. WHEN CONNECTING TO AN EXISTING AN EXISTING MANHOLE, ONE OF THE | FOLLOWING METHODS SH | ITHER THAN AN EXISTING WYE, TEE, OR HALL BE USED: (`'SHEWER-TAP″ MACHINE OR SIMILAR) | SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SE SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR TH |
| | | MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER. | AND PROPER INSTALLATION OF H | HUBWYE SADDLE OR HUB-1 | | 16. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIAT |
| | | 8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES. | A WYE OR TEE BRANCH SECTION c) WITH PIPE CUTTER, NEATLY AND | I. O ACCURATELY CUT OUT DE | SIRED LENGTH OF PIPE FOR INSERTION PLINGS TO HOLD IT FIRMLY IN PLACE. | BLANKET. 17. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION BY APPROPRIATE SEDIMENT CONTROL MEASURES. |
| | | 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 | 12. WHENEVER A SANITARY/COMBINED S DISTANCE FROM THE TOP OF THE SE FURTHERMORE, A MINIMUM HORIZON SEWERS AND WATERMAINS SHALL BE | WER TO THE BOTTOM OF T NTAL DISTANCE OF 10 FEET MAINTAINED UNLESS: THE | THE WATERMAIN SHALL BE 18 INCHES. T BETWEEN SANITARY/COMBINED E SEWER IS LAID IN A SEPARATE | 18, THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN T THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNO SANITARY OR COMBINED SEWER, DRAIN TILES ALLOWED IN COMBINED SEWE GREEN INFRASTRUCTURE PRACTICES. |
| DATE | | 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. | TRENCH, KEEPING A MINIMUM 18" VE TRENCH WITH THE WATERNAIN LOCA EARTH, KEEPING A MINIMUM 18" VER DISTANCES DESCRIBED CANNOT BE M | ATED AT THE OPPOSITE SIL TICAL SEPARATION. IF EIT MAINTAINED, OR THE SEWE | DE ON A BENCH OF UNDISTURBED THER THE VERTICAL OR HORIZONTAL ER CROSSES ABOVE THE WATER MAIN, | 19. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGI BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS |
| | | D. SANITARY SEWER 1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND | THE SEWER SHALL BE CONSTRUCTED WATER MAIN QUALITY CARRIER PIPE | WITH THE ENDS SEALED. | RDS OR IT SHALL BE ENCASED WITH A | DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESEN COMMENCEMENT OF DEWATERING ACTIVITIES. |
| α | | SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS. 2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER | 13. ALL EXISTING SEPTIC SYSTEMS SHALI GRANULAR MATERIAL OR REMOVED. | | | 20. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXC INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS 5 |
| | ę | 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. | ALL SANITARY MANHOLES, (AND STOI MINIMUM INSIDE DIAMETER OF 48 IN CONCRETE. | | ED SEWER AREAS), SHALL HAVE A F IN PLACE OR PRE-CAST REINFORCED | THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFÉCTIVE SEDIMENT CC ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WAT PROTECTION AREAS OR THE COMBINED SEWER SYSTEM. |
| | AT'NS CH' | 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. | 15. ALL SANITARY MANHOLES, (AND STOI PRECAST "RUBBER BOOTS" THAT CON SECTIONS SHALL CONSIST OF MODIFI | FORM TO ASTM C-923 FOR | R ALL PIPE CONNECTIONS. PRECAST | 21. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN S FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES. |
| SURVEYED PLOTTED PLOTTED RML NOTFD | CTURE NOT | 4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION). | 16. ALL ABANDONED SANITARY SEWERS S NON-SHRINK CONCRETE OR MORTAR | SHALL BE PLUGGED AT BOT PLUG. | TH ENDS WITH AT LEAST 2 FEET LONG | 22. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONS UNTIL PERMANENT STABILIZATION IS ACHIEVED. |
| SURV SURV GRAD B.M. | STRU | 5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM. | 17. EXCEPT FOR FOUNDATION/FOOTING ASSOCIATED WITH VOLUME CONTROL | L FACILITIES, DRAIN TILES | /FIELD TILES/UNDERDRAINS/PERFORATED | 23. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REM THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION. |
| PROFILE NOTE BOOK | \CGI-P <mark>BF.pltcfg</mark> wrdnoteØl.dgn | 6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. 7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING: | PIPES ARE NOT ALLOWED TO BE CON SEWERS, OR STORM SEWERS TRIBUT, CONSTRUCTION OF NEW FACILITIES (PERFORATED PIPES ENCOUNTERED W | NECTED TO OR TRIBUTARY ARY TO COMBINED SEWER OF THIS TYPE IS PROHIBIT /ITHIN THE PROJECT AREA | (TO COMBINED SEWERS, SANITARY | 24. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE REQUIREMENTS, ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY SITE INSPECTOR, OR MWRD. |
| | fs \lL -D07 \Plot tung heets \ØØ2!157.02-m | | OWNER TO ENSURE PROPER OPERATI ENSURE FUNCTIONALITY, IN THE EVE | HALL BE INSPECTED AND E ION, AND ANY NECESSARY INT OF A SEWER SURCHARO THE PERMITTEE SHALL ENS | EXERCISED ANNUALLY BY THE PROPERTY MAINTENANCES SHALL BE PERFORMED TO GE INTO AN OPEN DETENTION BASIN URE THAT CLEAN UP AND WASH OUT OF | |
| 12021 R.45.35 DM | 7.02.10:33339 HT 7.02.15 ndards\CAD\Bentley\standard 0\0021157.02\CADD\Sht\MiscSf | | | | | |

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| - CiorbaGroup | USER NAME = WaterResources | | REVISED - | | CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION | RTE. SECTION | COUNTY TOTAL SHEET SHEETS NO. |
|---|----------------------------|------------------------------|------------------------|--------------------------|---|--------------|------------------------------------|
| W. Higgins Rd, Ste 600, Chicago, JL 60631 | PLOT SCALE = 2.0000 1/ in. | DRAWN - CLB CHECKED - LAM | REVISED - REVISED - | VILLAGE OF BUFFALO GROVE | MWRD AND MAINTENANCE NOTES | | СООК 37 3 СОЛТКАСТ NO. 21157.02 |
| P 773.775.4009 www.ciorba.com | PLOT DATE = 10/29/2021 | DATE - 10/1/2021 | REVISED - | | SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA TO STA | ILLINOIS | |

ONTROL DEVICES AS SHOWN ON THE

AL PRIOR TO HYDROLOGIC

OSION AND SEDIMENT CONTROL

N SHALL BE MAINTAINED ON THE

FROL MEASURES, PRIOR TO ANY

RS OF THE END OF A STORM EVENT VALENT PRECIPITATION.

TO MINIMIZE EROSION. DONE IN PHASES, THE CO-PERMITTEE ITROL MEASURES.

OF THE ILLINOIS URBAN MANUAL ERING OR LEAVING A CONSTRUCTION OF-WAY, STREET, ALLEY OR PARKING ACCUMULATIONS WARRANT AND

ORDANCE WITH THE ILLINOIS CONSTRUCTION ACTIVITIES INVOLVING

ION TO CONCRETE WASHOUT NSTRUCTION ACTIVITIES.

TO DIRECT ALL RUNOFF FROM ENT TRAP OR BASIN. VOLUME ENT BASINS.

ES HAVE TEMPORARILY OR DR PERMANENT MEASURES WITHIN

S SHALL, AT A MINIMUM, BE

LALL OF THE CONTRIBUTING

ERIMETER SEDIMENT CONTROLS. AREAS OR THEIR BUFFERS.

APPROPRIATE EROSION CONTROL

NSTRUCTION SHALL BE PROTECTED

ING DRAIN TILES AND INCORPORATE TILES CANNOT BE TRIBUTARY TO A BINED SEWER AREA FOR

D DISCHARGE LOCATIONS SHALL NG SYSTEMS SHOULD BE INSPECTED ST BE PRESENT AT THE

ING AND EXCAVATION FOR THE AINS AS WELL AS THEIR SERVICES H CONTAINS SEDIMENT SHALL PASS SEDIMENT CONTROL DEVICE. LTER BAG OR EXISTING VEGETATED ARGE TO WATERWAYS, FLOOD

ED WITHIN SEVEN (7) DAYS

TAINED AND REPAIRED AS NEEDED

HALL BE REMOVED WITHIN

IE PLANS ARE THE MINIMUM IRECTED BY THE ENGINEER,

PERPETUAL MAINTENANCE

NOTES

Planned annual lift station routine maintenance should include the following upon completion of construction:

A. WEEKLY

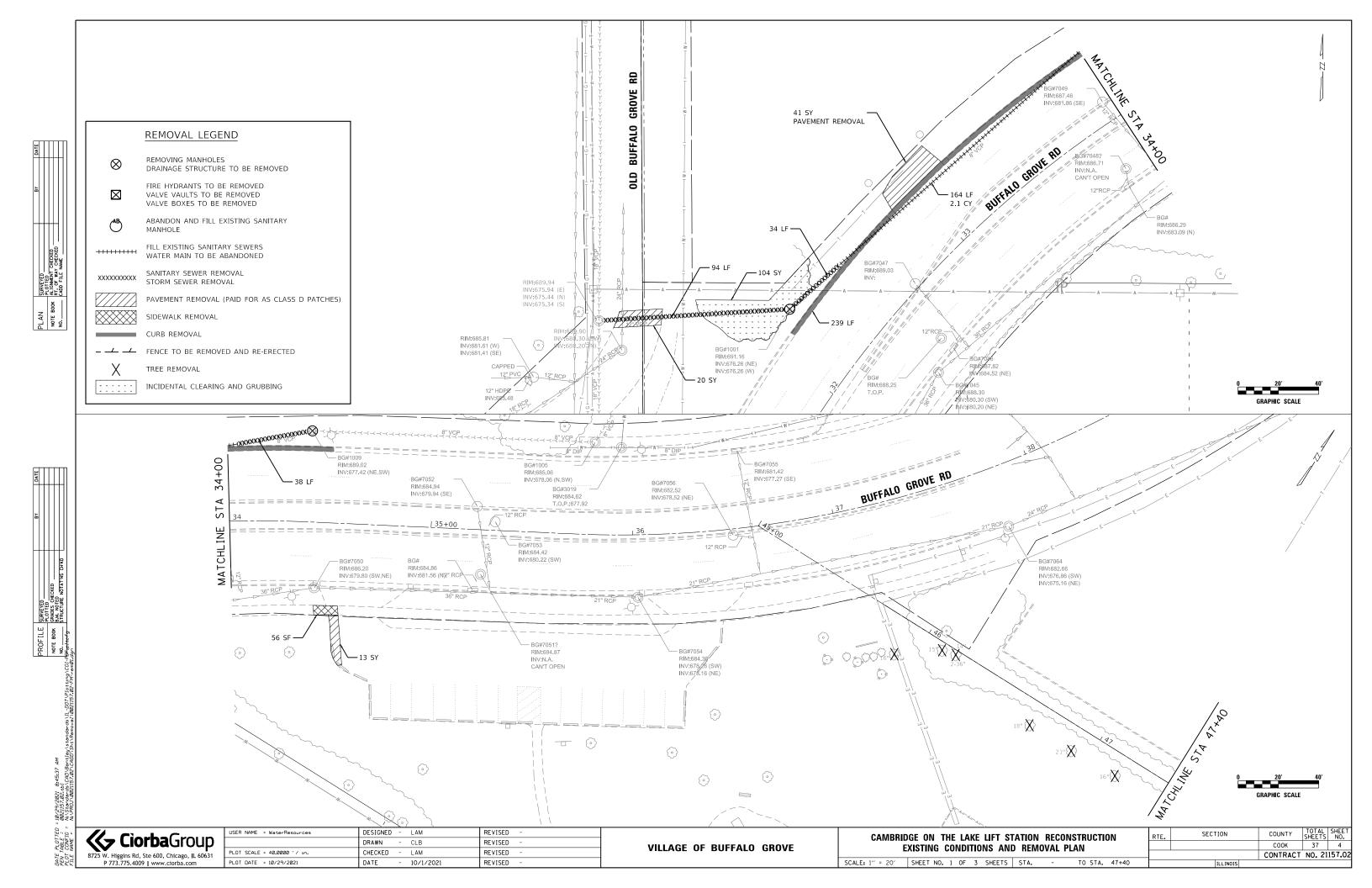
- Visually inspect the station for vandalism and security.
 Record pump hours for each pump.
 Review control panel alarm history.
 Run each pump in hand mode and observe level control for proper
- operation. 5. Visually inspect standby generator for fuel level and operation readiness.

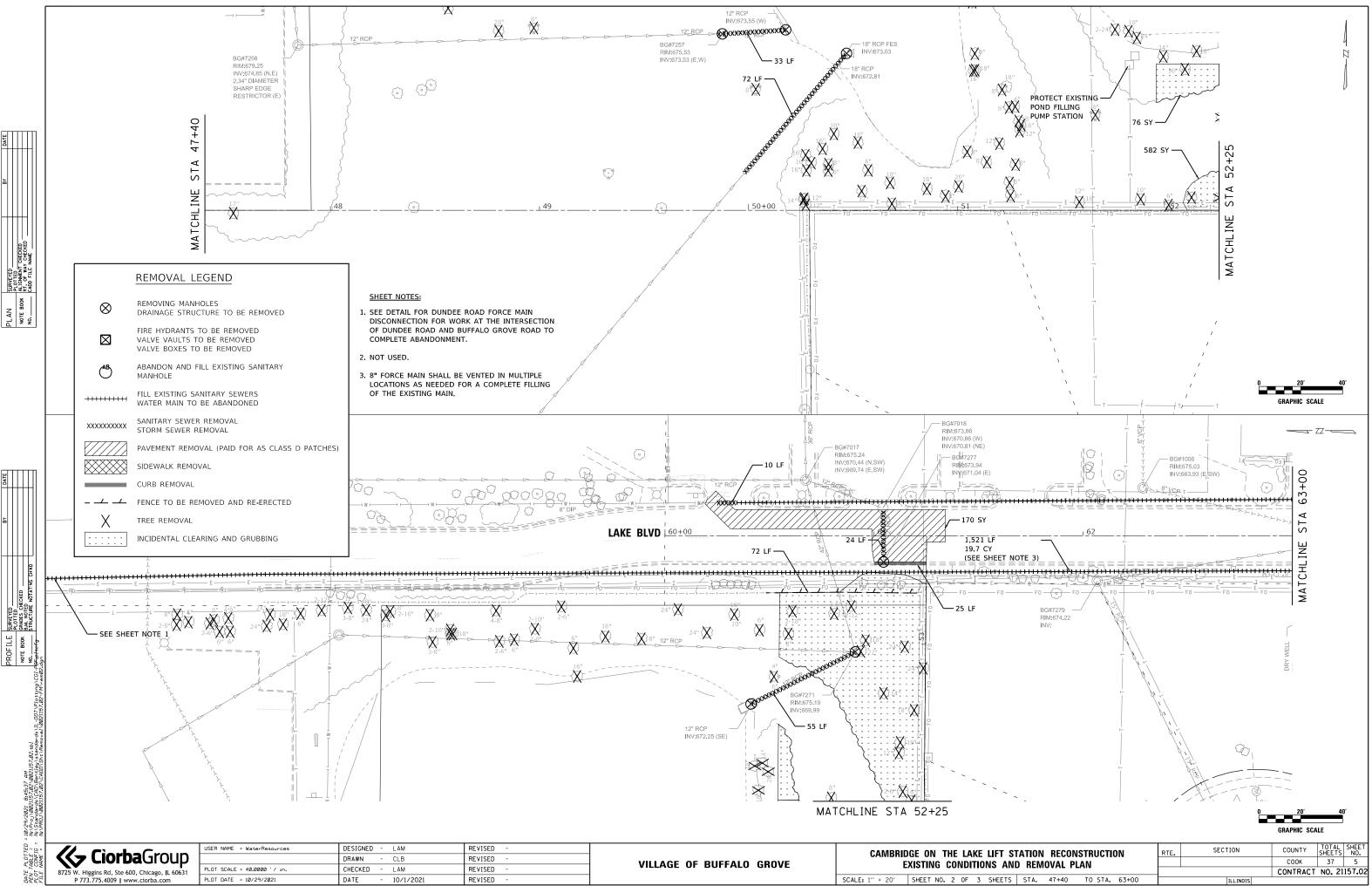
B. MONTHLY

- Open up wet well and visually inspect the pumping of each pump. Completely pump down the wet well to its lowest point and make a visual inspection. Check wet well floats and transducer for rage build up, clean as needed. 1. 2.
- Check wet well floats
 Exercise generator

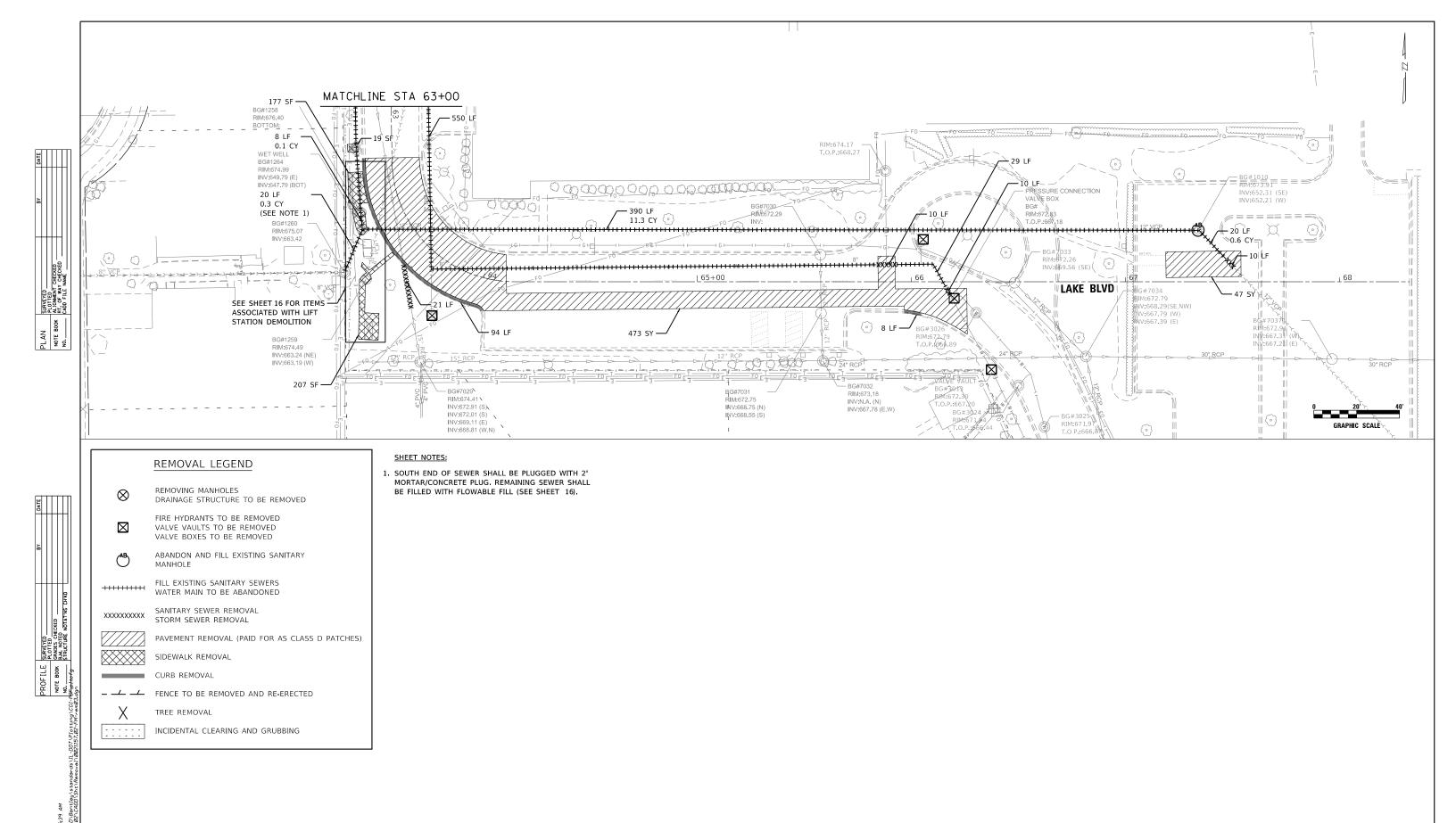
C. QUARTERLY

- Clean grit and grease from the wet well using a vac truck.
 Operate generator under load for 15 minutes by tripping station power. Observe for successful transfer to generator power.
 Operate emergency portable generator.



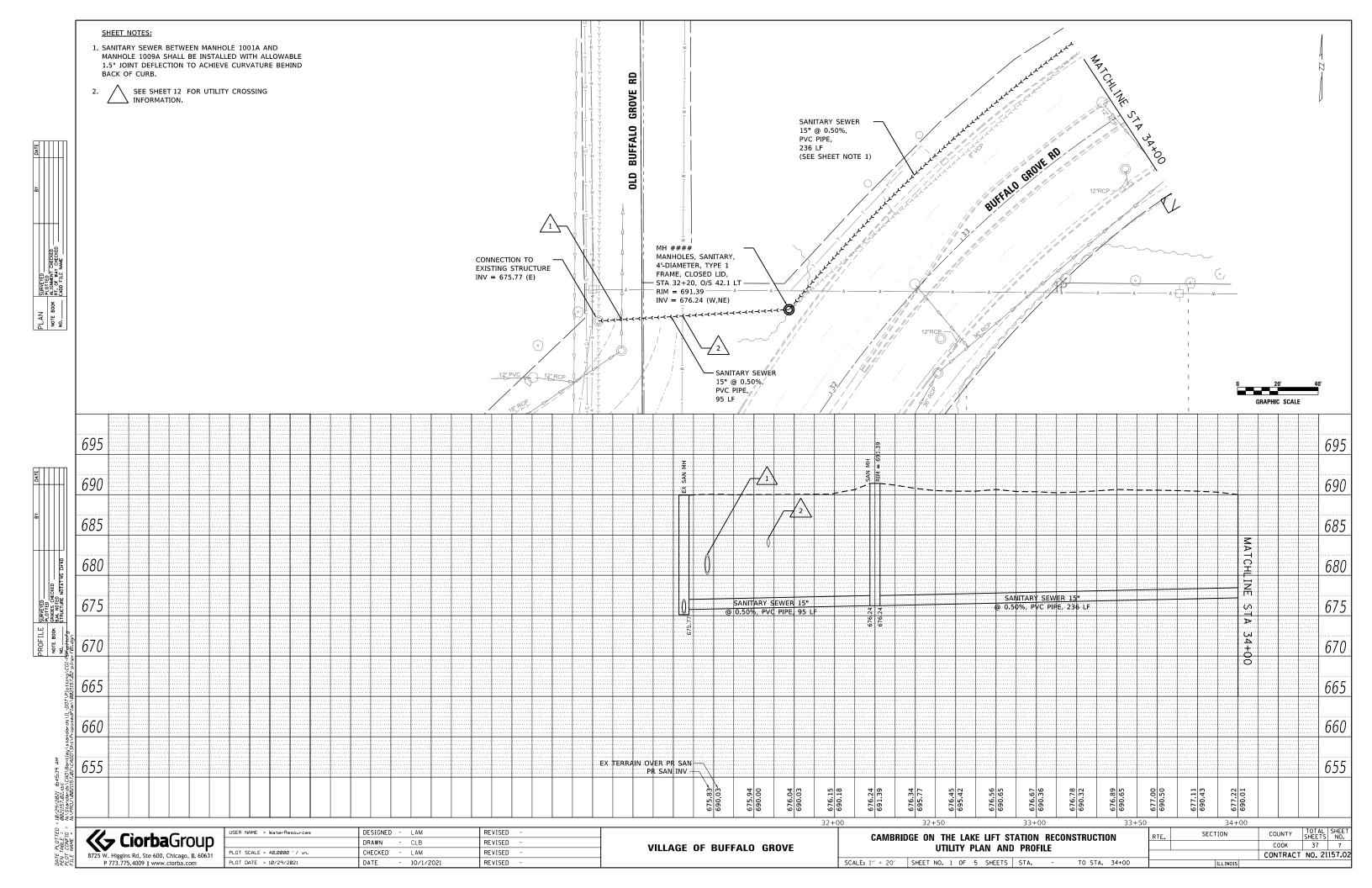


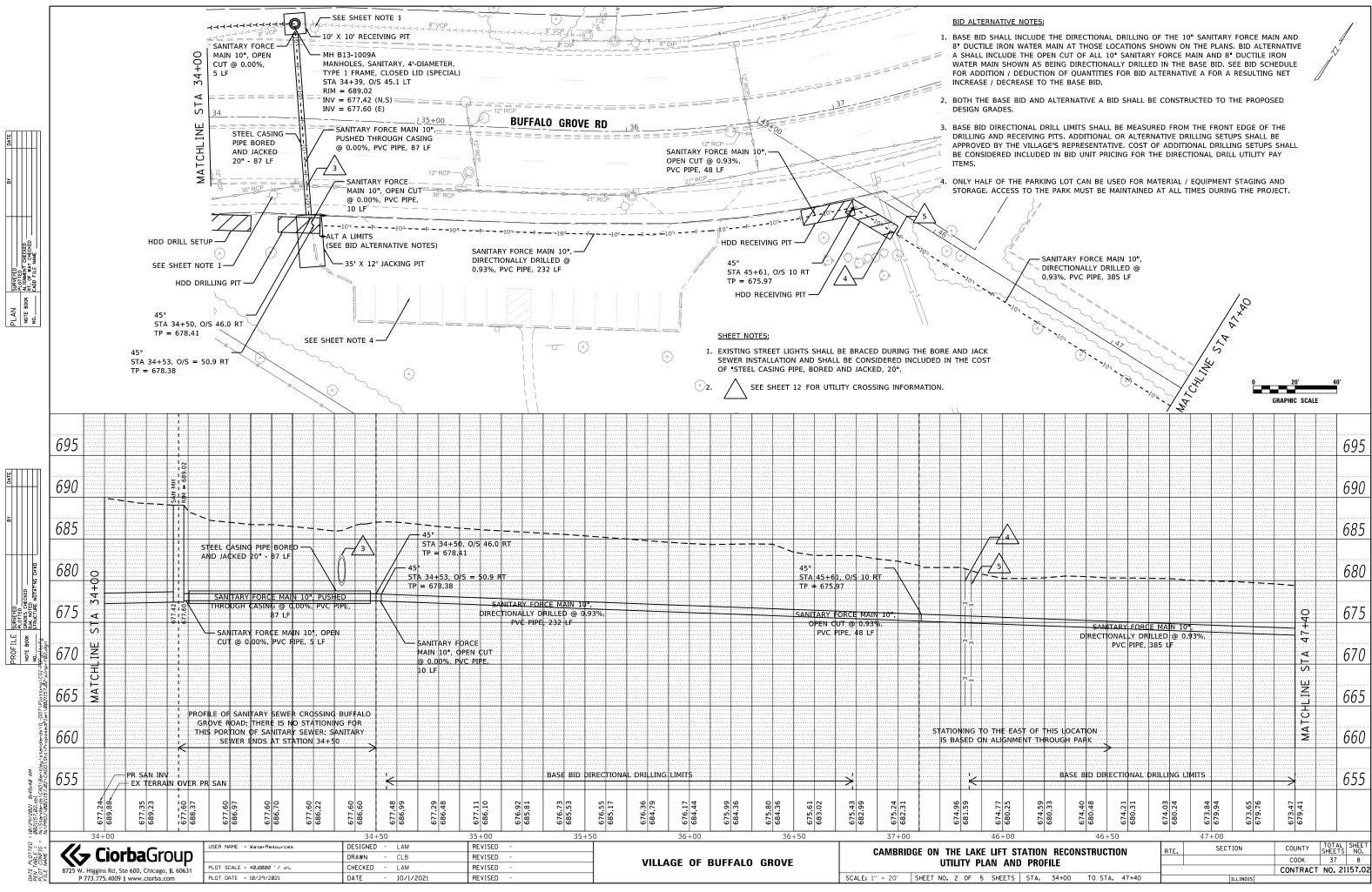
| | DINAIN OLD | | VILLAGE OF BUFFALO GROVE | l r | EXISTING CONDITIONS AND REMOVA |
|----------------------------|------------------|-----------|--------------------------|-----------------|----------------------------------|
| OT SCALE = 40.0000 ′ / 10. | CHECKED - LAM | REVISED - | VILLAGE OF BUFFALU GRUVE | | EXISTING CONDITIONS AND REMOVA |
| OT DATE = 10/29/2021 | DATE - 10/1/2021 | REVISED - | | SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS STA. 47- |
| | | | | | |



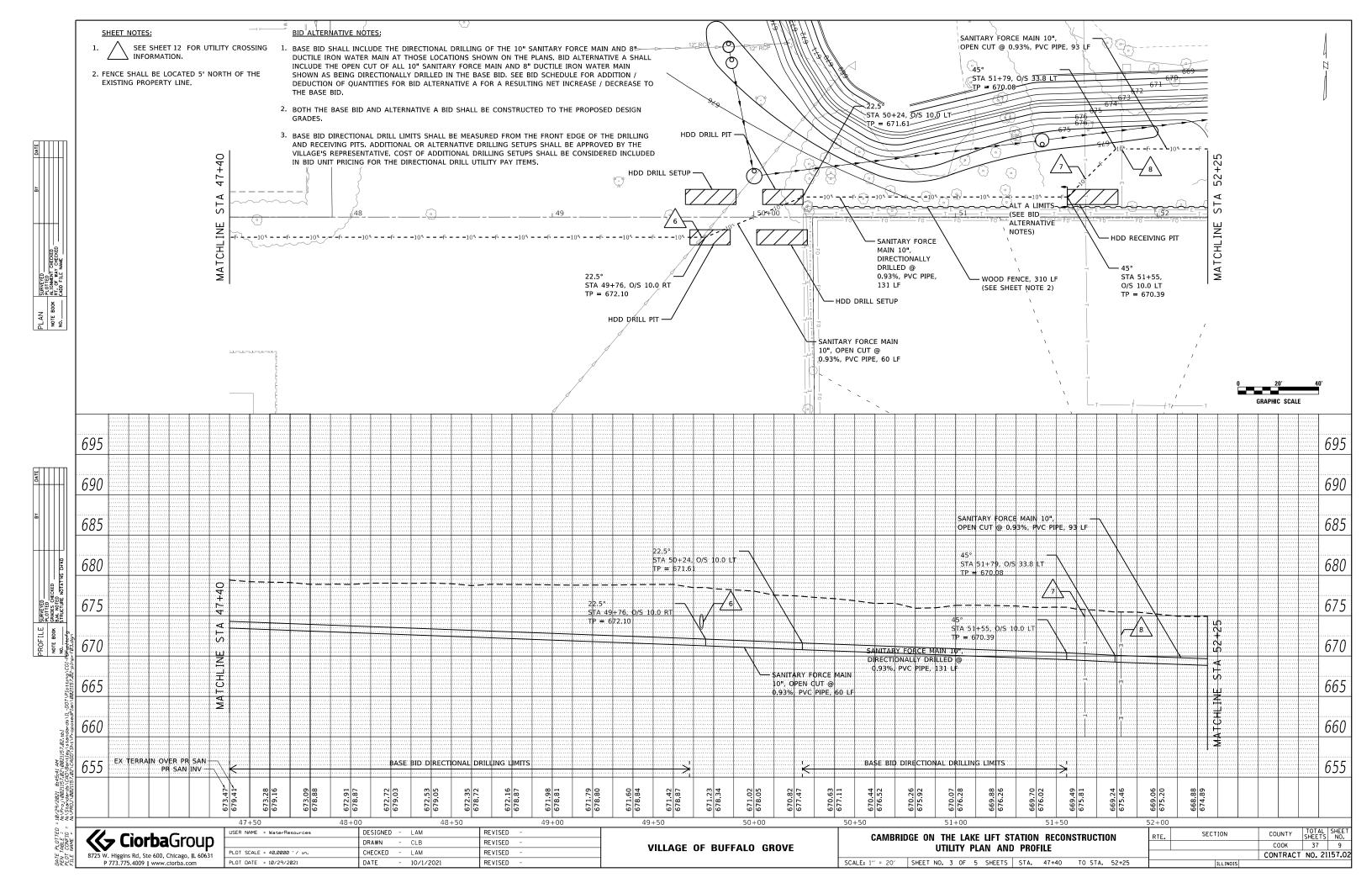


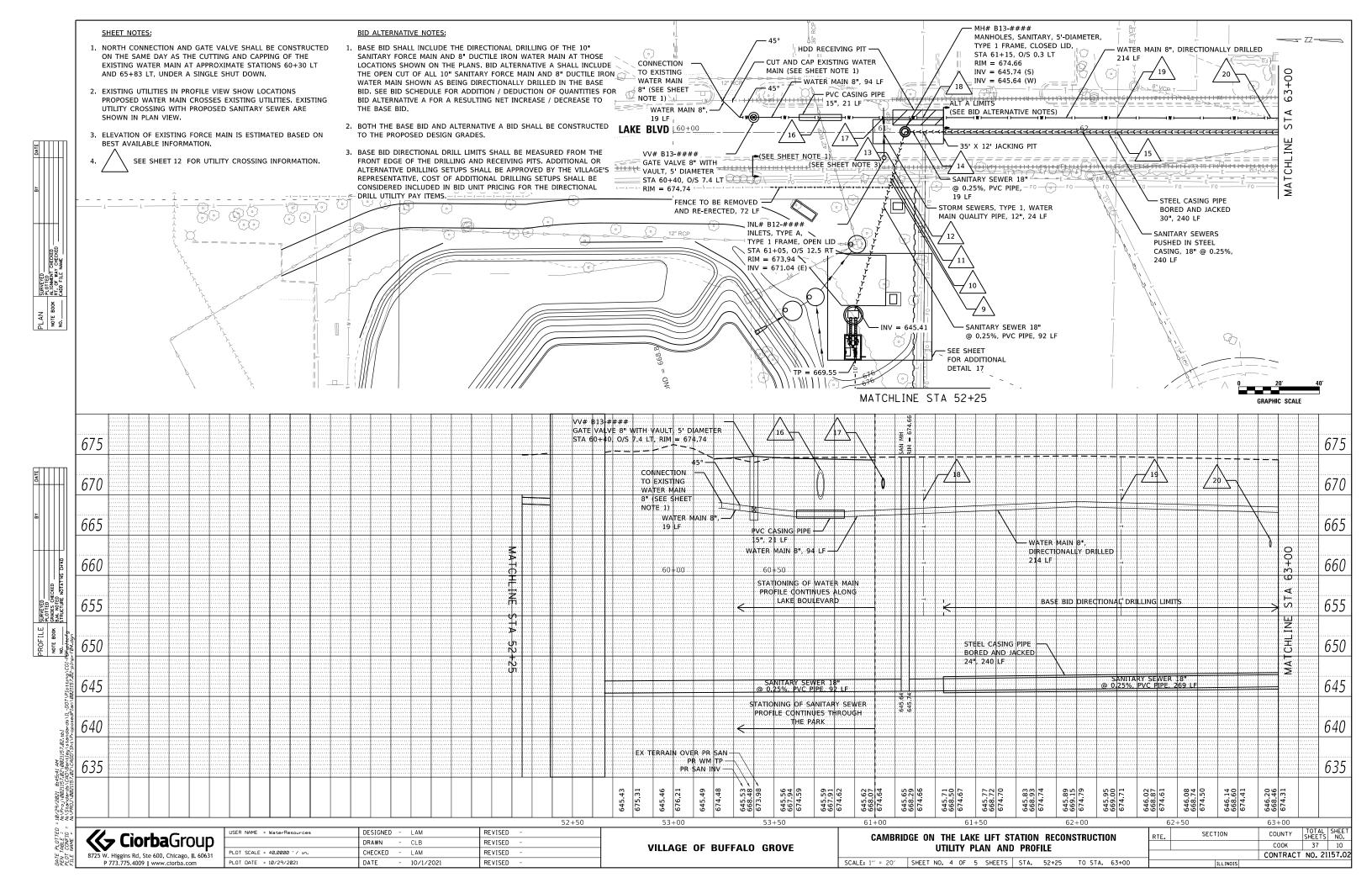
| | USER NAME = WaterResources | DESIGNED - LAM | REVISED - | | CAMBRIDGE ON THE LAKE LIFT STATION RECONSTRUCTION | RTE. | SECTION COL | JNTY TOTAL SHEET SHEETS NO. |
|---|----------------------------|------------------------------|------------------------|--------------------------|---|------|-------------|--------------------------------|
| Ciorba Group | | DRAWN - CLB CHECKED - LAM | REVISED - REVISED - | VILLAGE OF BUFFALO GROVE | EXISTING CONDITIONS AND REMOVAL PLAN | | | ООК 37 6 |
| 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 www.ciorba.com | PLOT DATE = 10/29/2021 | DATE - 10/1/2021 | REVISED - | | SCALE: 1" = 20' SHEET NO. 3 OF 3 SHEETS STA. 63+00 TO STA | | ILLINOIS | TRACT NO. 21157.02 |

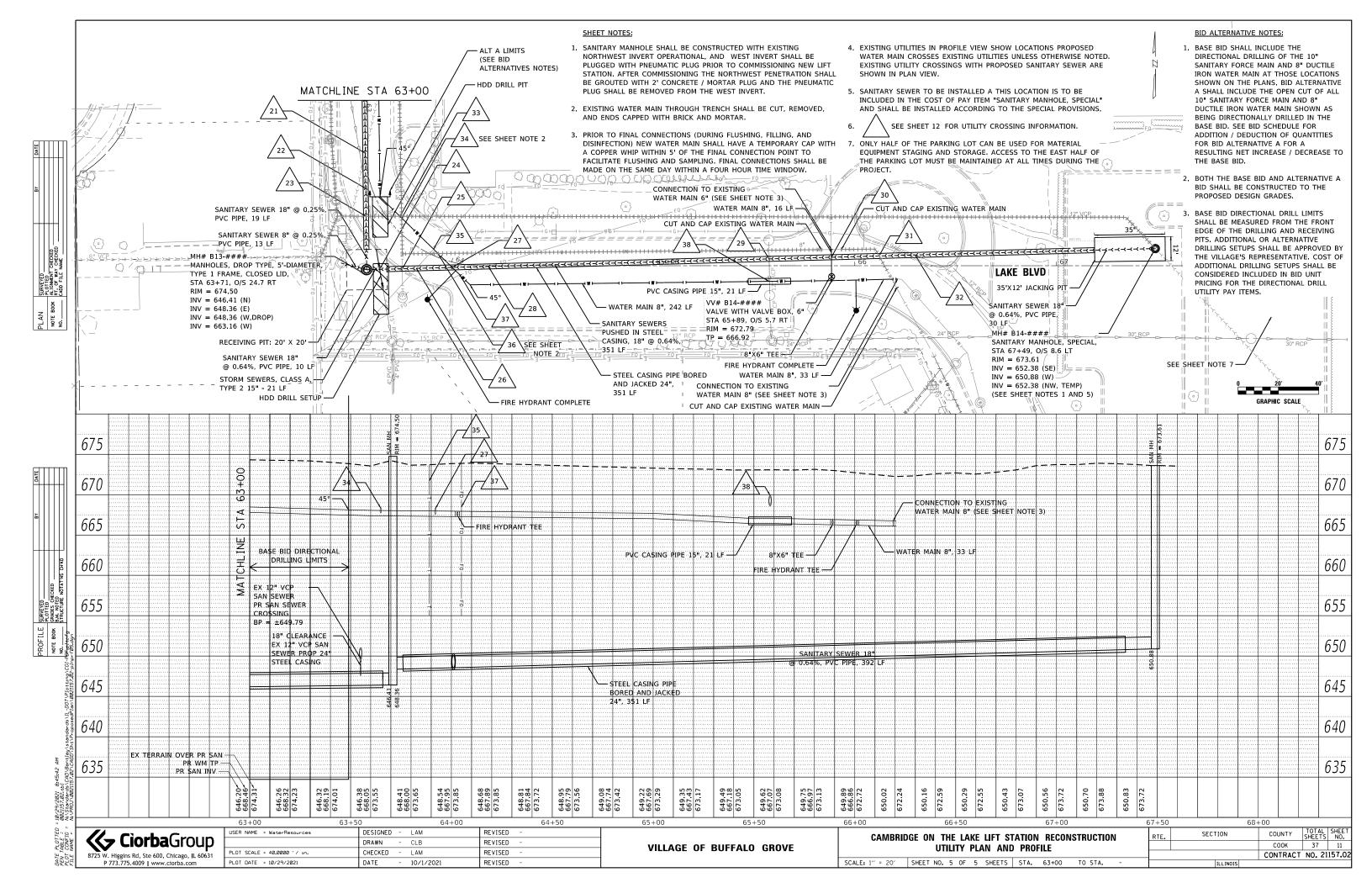












| UTILITY | CROSSING | TABLE | SHEET | 7 |
|---------|----------|-------|-------|---|

| | | CROSSED UTILITY | | PROPOSED UTILITIES | | | | |
|----------|---------|-----------------|---------------|--------------------|----------|---------------|------------|----------------|
| CROSSING | STATION | UTILITY | DIAMETER (IN) | TP / BP | UTILITY | DIAMETER (IN) | TP / BP | CLEARANCE (FT) |
| 1 | 31+75 | EX STORM SEWER | 24 | 680.11, BP | SANITARY | 12 | 677.08, TP | 3.03 |
| 2 | 31+91 | EX WATER MAIN | 12 | 683.53, BP | SANITARY | 12 | 677.18, TP | 6.35 |

| | UTILITY CROSSING TABLE SHEET 8 | | | | | | | | | | | |
|------------------------------------|--------------------------------|----------------|---------------|------------|----------|---------------|------------|----------------|--|--|--|--|
| CROSSED UTILITY PROPOSED UTILITIES | | | | | | | | | | | | |
| CROSSING | STATION | UTILITY | DIAMETER (IN) | TP / BP | UTILITY | DIAMETER (IN) | TP / BP | CLEARANCE (FT) | | | | |
| 3 | 34+48 | EX STORM SEWER | 36 | 679.43, BP | SANITARY | 10 | 678.43, TP | 1.00 | | | | |
| 4 | 45+82 | EX ELECTRIC | UNK | UNK | SANITARY | 10 | 675.77, TP | UNK | | | | |
| 5 | 45+85 | EX ELECTRIC | UNK | UNK | SANITARY | 10 | 675.75, TP | UNK | | | | |

| | UTILITY CROSSING TABLE SHEET 9 | | | | | | | | | | | |
|------------------------------------|--------------------------------|----------------|---------------|------------|----------|---------------|------------|----------------|--|--|--|--|
| CROSSED UTILITY PROPOSED UTILITIES | | | | | | | | | | | | |
| CROSSING | STATION | UTILITY | DIAMETER (IN) | TP / BP | UTILITY | DIAMETER (IN) | TP / BP | CLEARANCE (FT) | | | | |
| 6 | 49+74 | EX STORM SEWER | 18 | 673.50, BP | SANITARY | 10 | 672.12, TP | 1.38 | | | | |
| 7 | 51+64 | EX TELEPHONE | UNK | UNK | SANITARY | 10 | 670.27, TP | UNK | | | | |
| 8 | 51+82 | EX ELECTRIC | UNK | UNK | SANITARY | 10 | 670.05, TP | UNK | | | | |

| | UTILITY CROSSING TABLE SHEET 210 | | | | | | | | | | | | |
|----------|----------------------------------|---------------------------|---------------|------------|------------|---------------|------------|----------------|--|--|--|--|--|
| | | CROSSED UTILITY | | | PROPOSED | UTILITIES | | | | | | | |
| CROSSING | STATION | UTILITY | DIAMETER (IN) | TP / BP | UTILITY | DIAMETER (IN) | TP / BP | CLEARANCE (FT) | | | | | |
| 9 | 53+27 | EX FIBER OPTIC | UKN | UNK | SANITARY | 18 | 647.00, TP | UNK | | | | | |
| 10 | 53+29 | EX TELEPHONE | UNK | UNK | SANITARY | 18 | 647.01, TP | UNK | | | | | |
| 11 | 53+31 | EX TELEPHONE | UNK | UNK | SANITARY | 18 | 647.01, TP | UNK | | | | | |
| 12 | 53+33 | EX ELECTRIC | UNK | UNK | SANITARY | 18 | 647.01, TP | UNK | | | | | |
| 13 | 53+34 | EX SANITARY FORCE MAIN | 8 | 668.50, BP | SANITARY | 18 | 647.01, TP | 21.49 | | | | | |
| 14 | 61+24 | EX TELEPHONE | UNK | UNK | SANITARY | 18 | 647.02, TP | UNK | | | | | |
| 15 | 62+20 | EX TELEPHONE | UNK | UNK | SANITARY | 18 | 647.02, TP | UNK | | | | | |
| 16 | 60+73 | EX STORM SEWER | 42 | 669.41, BP | WATER MAIN | 8 | 667.91, TP | 1.50 | | | | | |
| 17 | 61+04 | PR STORM SEWER, WMQP | 12 | 670.73, BP | WATER MAIN | 8 | 668.11, TP | 2.62 | | | | | |
| 18 | 61+23 | EX TELEPHONE | UNK | UNK | WATER MAIN | 8 | 668.33, TP | UNK | | | | | |
| 19 | 62+20 | EX TELEPHONE | UNK | UNK | WATER MAIN | 8 | 669.00, TP | UNK | | | | | |
| 20 | 62+96 | EX SANTARY SEWER | 8 | 664.43, TP | WATER MAIN | 8 | 667.82, BP | 3.39 | | | | | |

| | | | UTILITY CRO | SSING TABLE | SHEET 11 | | | | |
|----------|---------|--------------------------------------|---------------|-------------|--------------------|---------------|------------|----------------|--|
| | | CROSSED UTILITY | | | PROPOSED UTILITIES | | | | |
| CROSSING | STATION | UTILITY | DIAMETER (IN) | TP / BP | UTILITY | DIAMETER (IN) | TP / BP | CLEARANCE (FT) | |
| 21 | 63+26 | EX SANITARY SEWER | 8 | 663.35, BP | SANITARY | 18 | 647.78, TP | 15.57 | |
| 22 | 63+43 | EX STORM SEWER | 15 | 669.12, BP | SANITARY | 18 | 647.83, TP | 21.29 | |
| 23 | 63+55 | EX SANITARY SEWER TO BE ABANDONED | 12 | 649.79, BP | SANITARY | 18 | 647.87, TP | 1.92 | |
| 24 | 63+74 | PR STORM SEWER | 15 | 668.62, BP | SANITARY | 18 | 649.87, TP | 18.75 | |
| 25 | 63+81 | EX WATER MAIN | 8 | 667.24, BP | SANITARY | 18 | 649.91, TP | 17.33 | |
| 26 | 63+89 | EX TELEPHONE | UNK | UNK | SANITARY | 18 | 649.97, TP | UNK | |
| 27 | 64+01 | PR WATER MAIN | 8 | 667.28, BP | SANITARY | 18 | 650.05, TP | 17.23 | |
| 28 | 64+18 | EX FIBER OPTIC | UNK | UNK | SANITARY | 18 | 650.16, TP | UNK | |
| 29 | 65+58 | EX STORM SEWER | 12 | 669.21, BP | SANITARY | 18 | 651.11, TP | 18.10 | |
| 30 | 65+88 | PR WATER MAIN | 8 | 666.26, BP | SANITARY | 18 | 651.31, TP | 14.95 | |
| 31 | 66+12 | EX WATER MAIN TO BE ABANDONED | 8 | 666.43, BP | SANITARY | 18 | 651.47, TP | 14.96 | |
| 32 | 66+30 | EX GAS | 4 | UNK | SANITARY | 18 | 651.59, TP | UNK | |
| 33 | 63+64 | EX SANTIARY SEWER TO BE ABNDONED | 12 | 651.12, TP | WATER MAIN | 8 | 667.37, BP | 16.25 | |
| 34 | 63+65 | EX WATER MAIN TO BE ABANDONED | 8 | 668.39, TP | WATER MAIN | 8 | 667.37, BP | IN CONFLICT | |
| 35 | 63+89 | EX TELEPHONE | UNK | UNK | WATER MAIN | 8 | 667.97, TP | UNK | |
| 36 | 63+92 | EX WATER MAIN TO BE ABANDONED | 8 | 668.25, TP | WATER MAIN | 8 | 667.30, BP | IN CONFLICT | |
| 37 | 64+05 | EX FIBER OPTIC | UNK | UNK | WATER MAIN | 8 | 667.93, TP | UNK | |
| 38 | 65+58 | EX STORM SEWER | 12 | 668.66, BP | WATER MAIN | 8 | 667.08, TP | 1.58 | |

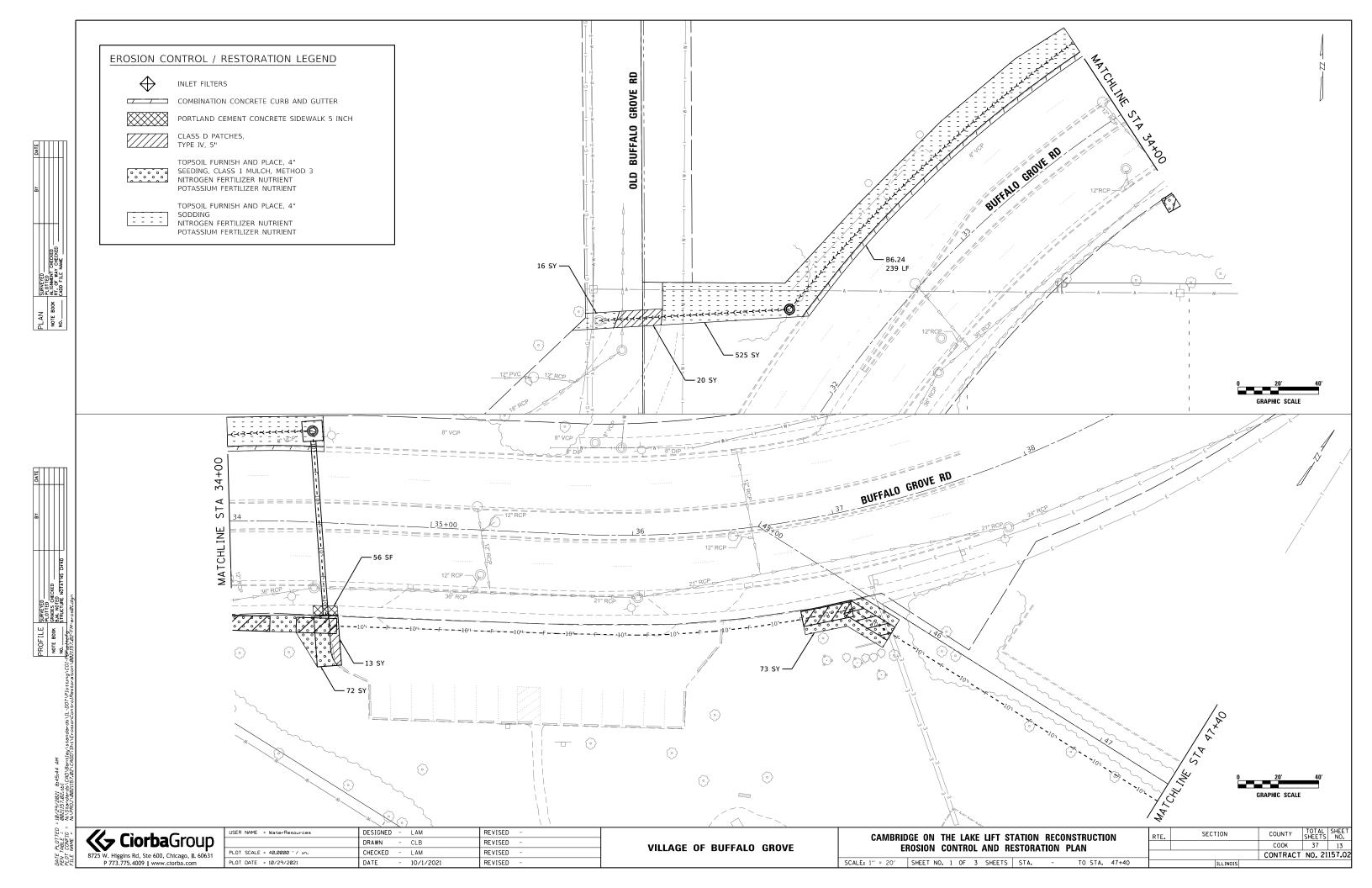
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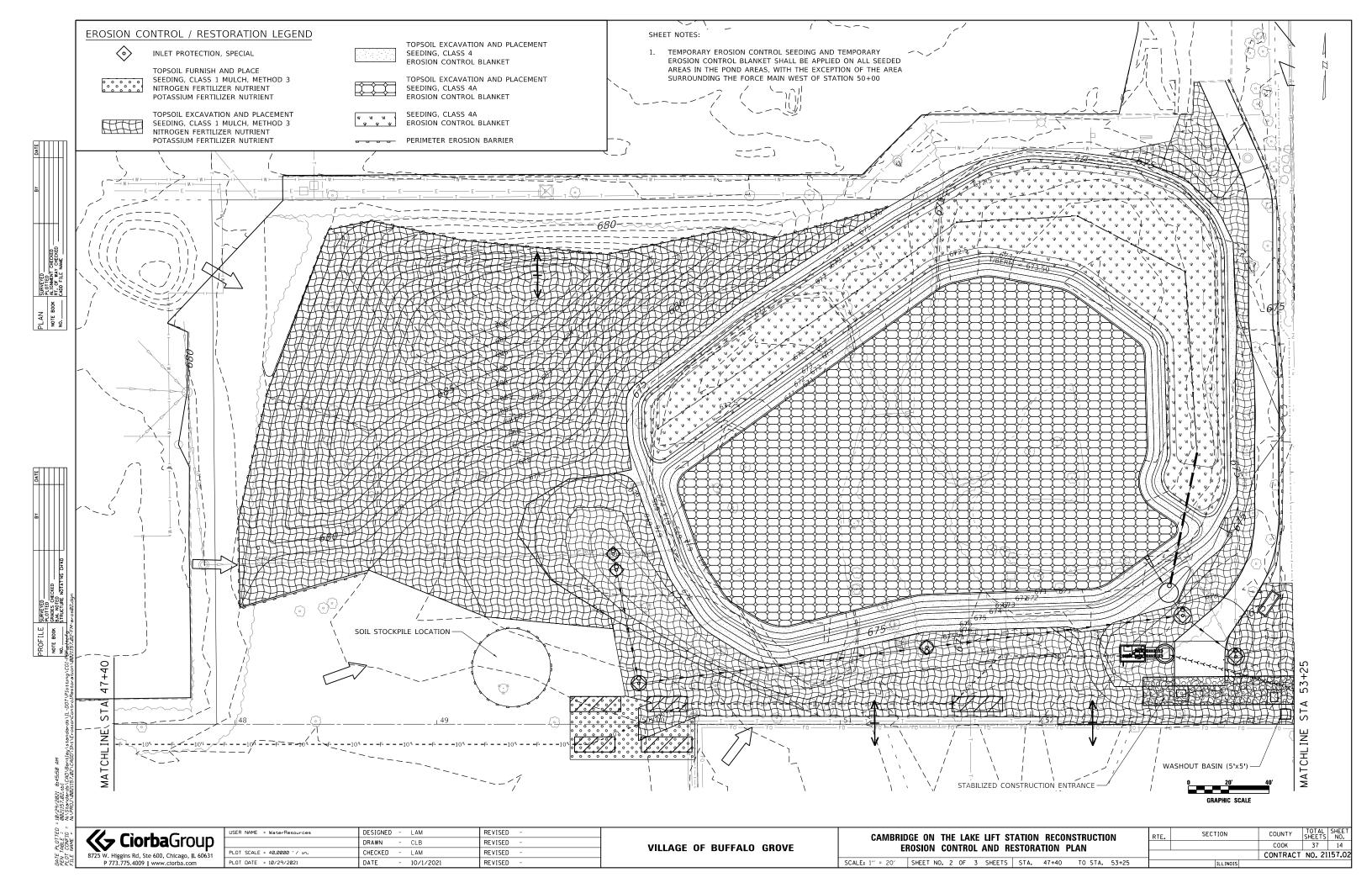
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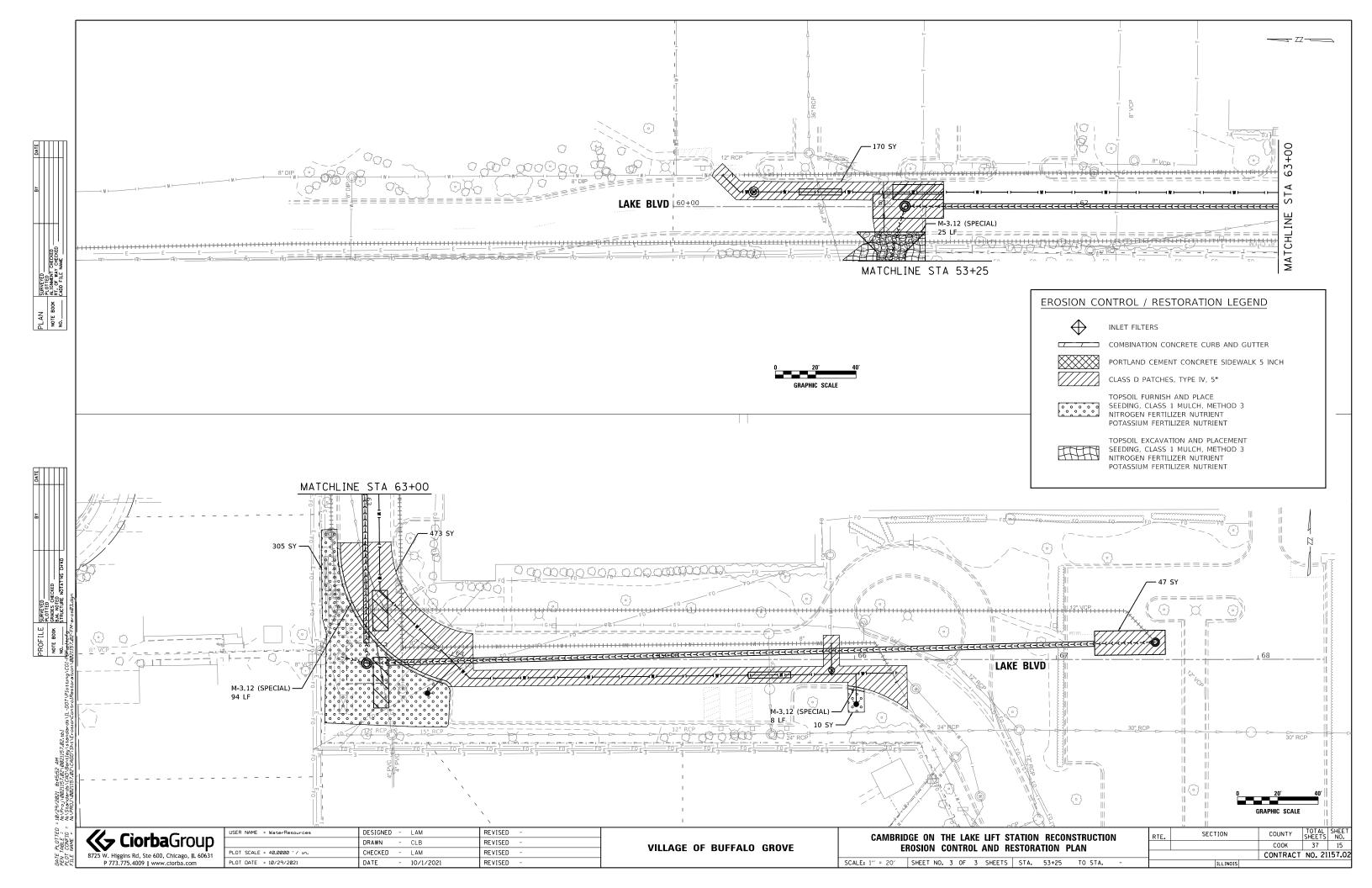
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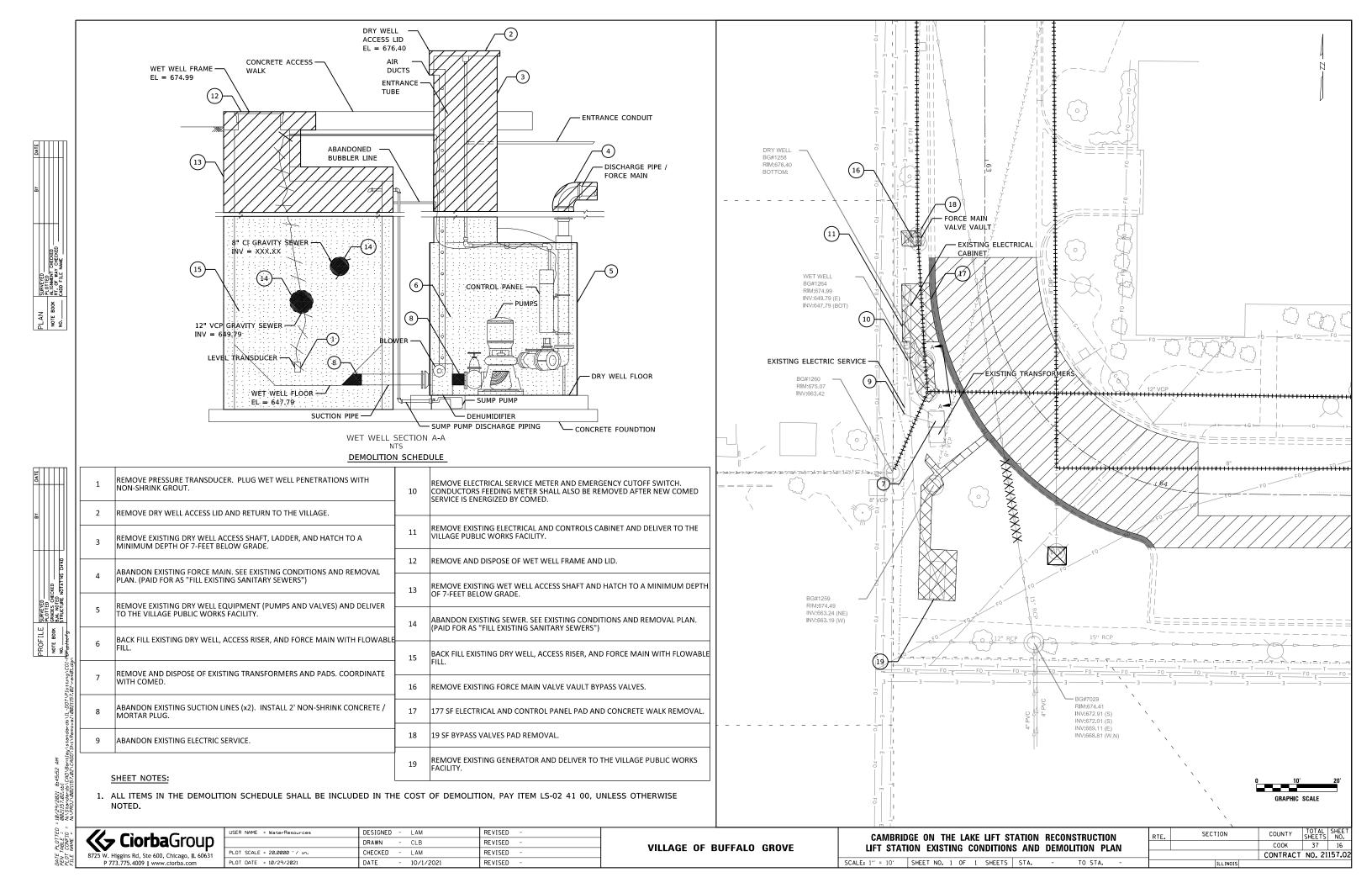
| 20 62+96 | EX SANTARY SEWER | 8 | 664.43. TP | WATER MAIN | 8 | 667.82, BP | 3.39 | | |
|--|--|--------------|--------------------------|------------|------------------------|------------|------|----------------------|---|
| | | | 000.03, 11 | | 1 | 007.02, 01 | | J | |
| | | | | | | | | | |
| 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P773.775.4009 www.ciorba.com | PLOT SCALE = 40.0000 ' / 10. PLOT DATE = 10/29/2021 | . CHE DAT | ECKED - LAM TE - 10/1 | | REVISED - REVISED - | | | AGE OF BUFFALO GROVE | UTILITY CROSSING T SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS S |

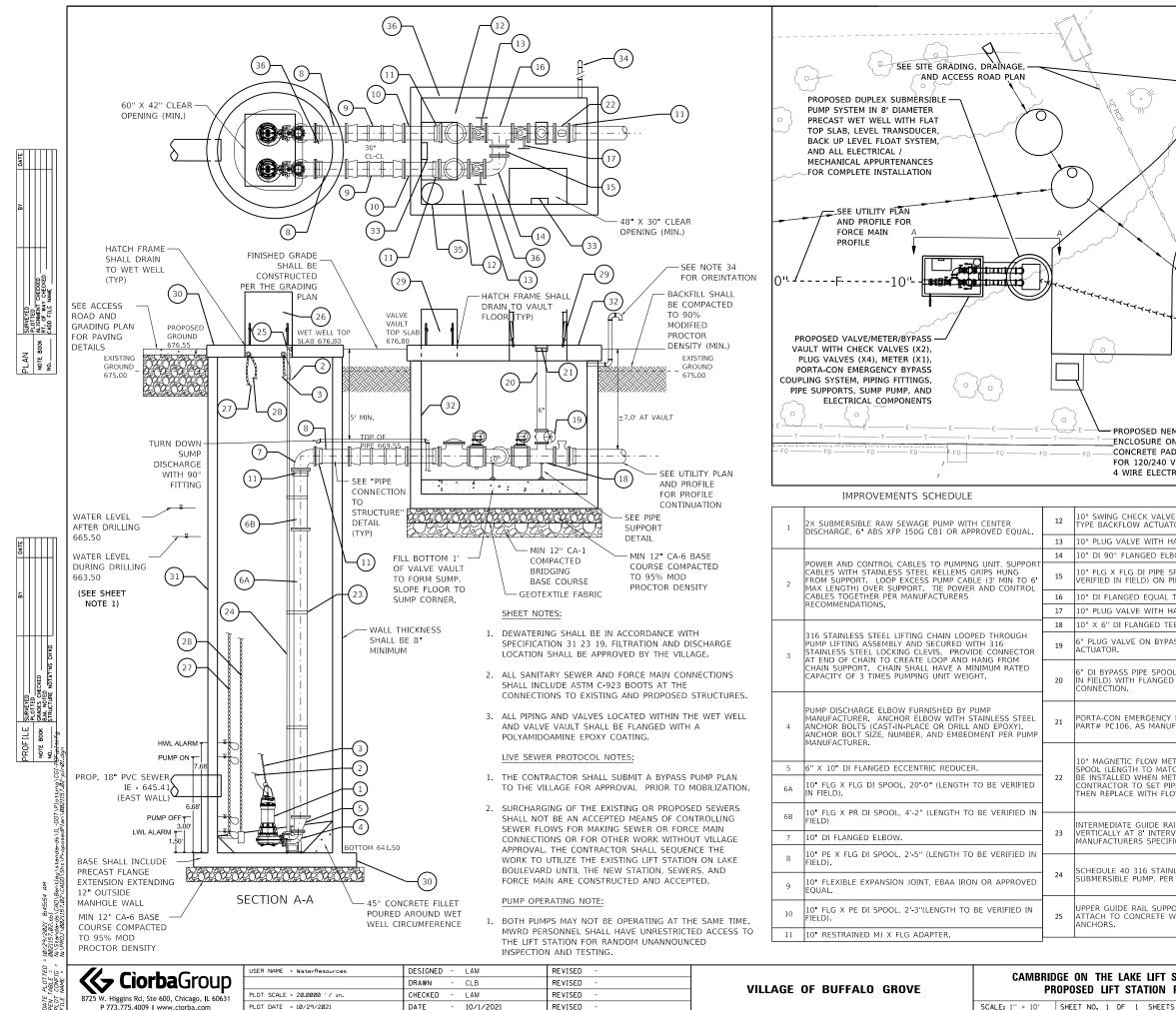
| ST | ATION | RECO | NSTRUCTIO | N | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----|-------|------|-----------|---|------|----------|----------|-----------------|--------------|
| IG | TABL | FS | | | | | COOK | 37 | 12 |
| | 17102 | | | | | | CONTRACT | NO. 21 | 157.02 |
| ; | STA. | - | TO STA. | - | | ILLINOIS | | | |











| Ciorba Group | USER NAME = WaterResources | DESIGNED - LAM DRAWN - CLB | REVISED - REVISED - | VILLAGE OF BUFFALO GROVE | CAMBRIDGE ON THE LAKE PROPOSED LIFT STA | | |
|--|-----------------------------|-------------------------------|------------------------|--------------------------|--|----------|------|
| 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 | PLOT SCALE = 20.0000 '/ in. | CHECKED - LAM | REVISED - | VILLAGE OF BUFFALD GROVE | FNUFUJED LIFT JIA | ATION PL | AN A |
| P 773.775.4009 www.ciorba.com | PLOT DATE = 10/29/2021 | DATE - 10/1/2021 | REVISED - | | SCALE: 1" = 10' SHEET NO. 1 OF 1 | SHEETS | STA. |

| EMA 3R-E DN T T ST ST T ST T SERVICE | | ENERA TTERNU ROTEC: OONCRI JAXIMU 3'X4'. HOWN | | JRE ON IS OF AS | | | |
|---|----------|---|---|---|---|--|---------------|
| /E WITH BOTTOM MOUNTED SCREW TOR. HANDWHEEL ACTUATOR. | 26 | WITH | G ASSIST DOU ALUMINUM DI ROJECT SPECI BE 60" X 42' | MOND PLAT | E AND FALL I | PROTECTION | J |
| BOW ON PIPE SUPPORT. SPOOL , 0-8" (LENGTH TO BE PIPE SUPPORT. TEE ON PIPE SUPPORT. HANDWHEEL ACTUATOR. EE ON PIPE SUPPORT. | 27 | PVC C BOTTO CABLE TIES. | TAINLESS STEP COATED WEIGH OM OF WET W ES TO WIRE RO PROVIDE CLO DRT HOOK. | T. LOCATE ELL ATTACI DPE AT LEVE | APPROXIMATE H BACKUP FLO LS SPECIFIED | ELY 12" FRO DAT SWITCH WITH NYLO | DM H DN |
| ASS LINE WITH HANDWHEEL | 28 | STEEL | R LEVEL PRES LIFTING CHAI HT. PROVIDE SUPPORT HOOK | N ATTACHED CLOSED LOO |) TO 15 LB P\ | /C COATED | |
| D END AND PORTA-CON BYPASS | 29 | DIAM | G ASSIST ACC DND PLATE PEI OPENING SH | R PROJECT S | PECIFICATION | | |
| JFACTURED BY PRECISION SYSTEMS. | 30 | | HS-20 LOAD R LAB. CASTINC JER. | | | | IP |
| TCH LENGTH OF FLOW METER) TO ETER IS REMOVED FOR SERVICE. IPE SPOOL IN PLACE TO VERIFY FIT, OW METER. | 31 32 | EMUL | 8' DIAMETER V SION COATING VALVE VAULT | | | ASPHALT | |
| AIL SUPPORT, 316 SS, SPACED WALS, ATTACH TO PIPE PER FICATION. | 33 | 14" W 1/2 IN | IDE COPOLYM ICH STEEL REII HATCH VAULT | ER PLASTIC S | STEPS WITH (T, SPACED VE | | |
| NLESS STEEL PIPE GUIDE RAILS FOR R MANUFACTURERS SPECIFICATIONS. PORT ALL 316 STAINLESS STEEL. | 34 | 90 DE TURN 2-FEE | READED GALV. GREE FITTING NG OUTLET AI T ABOVE FINIS R AND TOP CO | 5 FOR GOOS ND STAINLES HED GRADE. | ENECK DOWN S STEEL INSE SAND, CLEA | IWARD CT SCREEN N, AND APPI | LY |
| ORT ALL 316 STAINLESS STEEL. WITH 316 STAINLESS STEEL EPOXY | 35 | CAST | IRON, ANTI CL 1-1/2" DISCHA | OG VORTEX | IMPELLER SU | MP PUMP | _ |
| STATION RECONSTRUCTION | | RTE. | SECT | ION | COUNTY | TOTAL SHE SHEETS NO | |
| PLAN AND DETAILS | | | | | COOK CONTRACT | 37 17 | 7 |

TO STA.

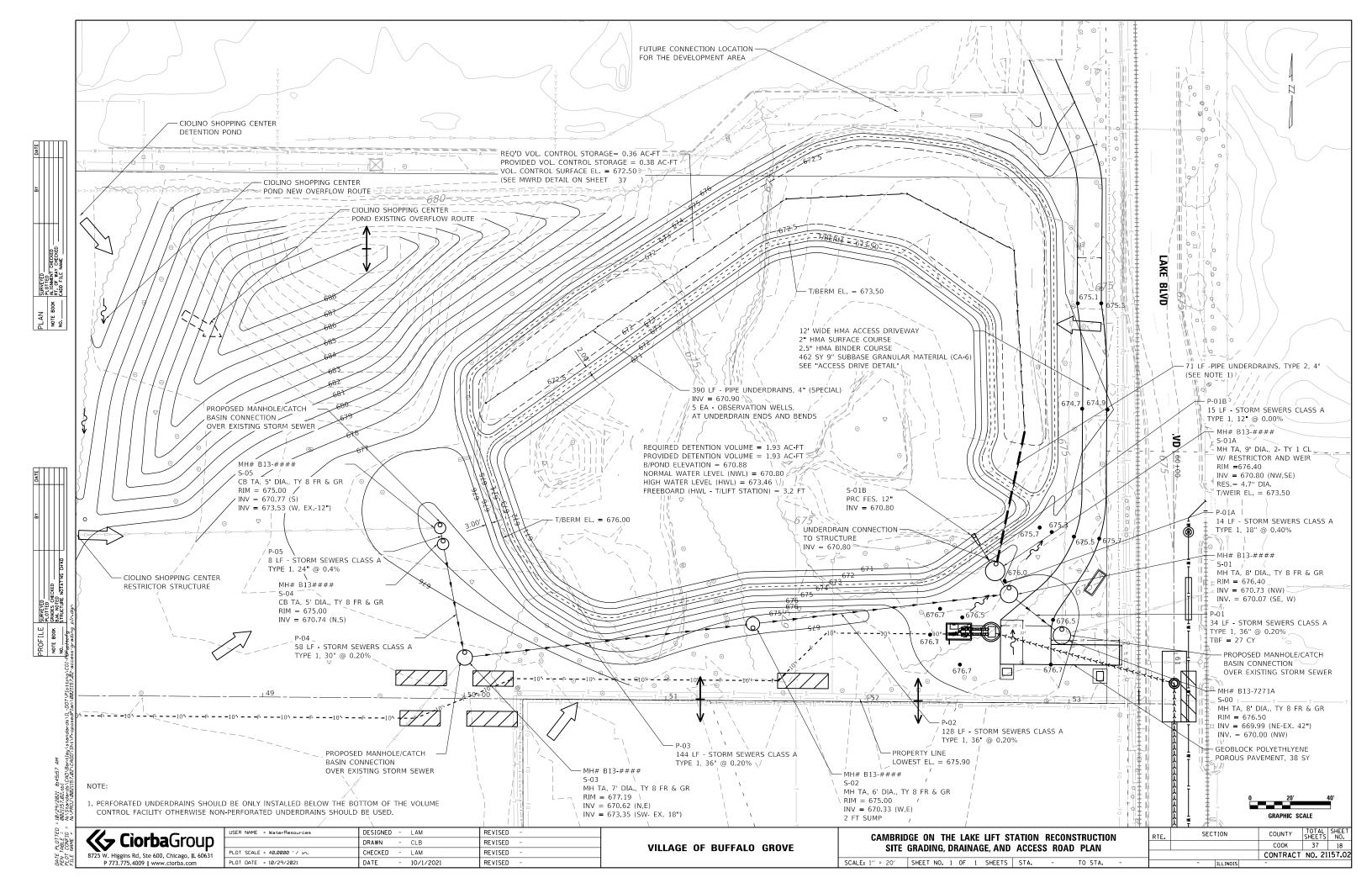
PROPOSED NEM

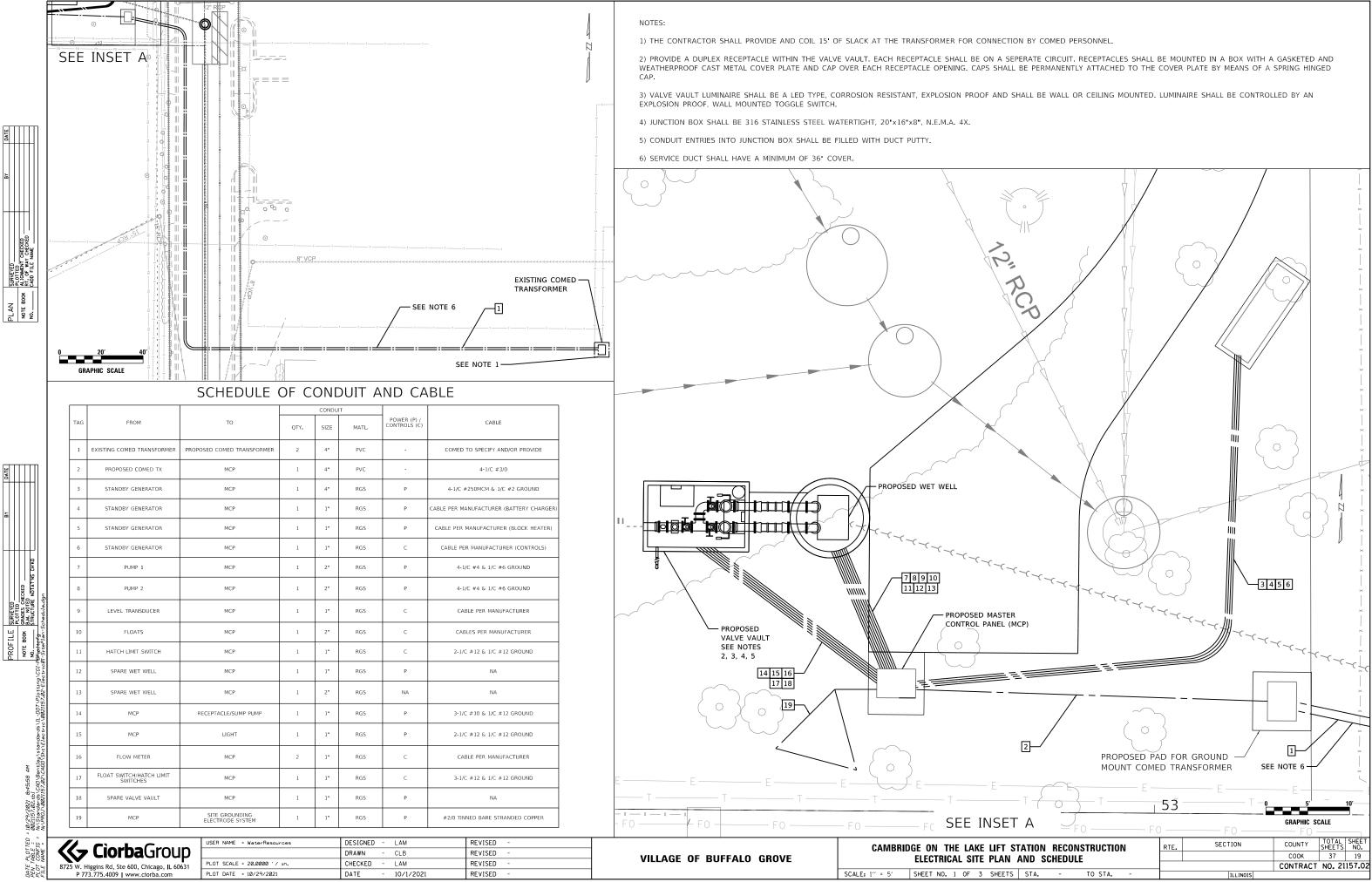
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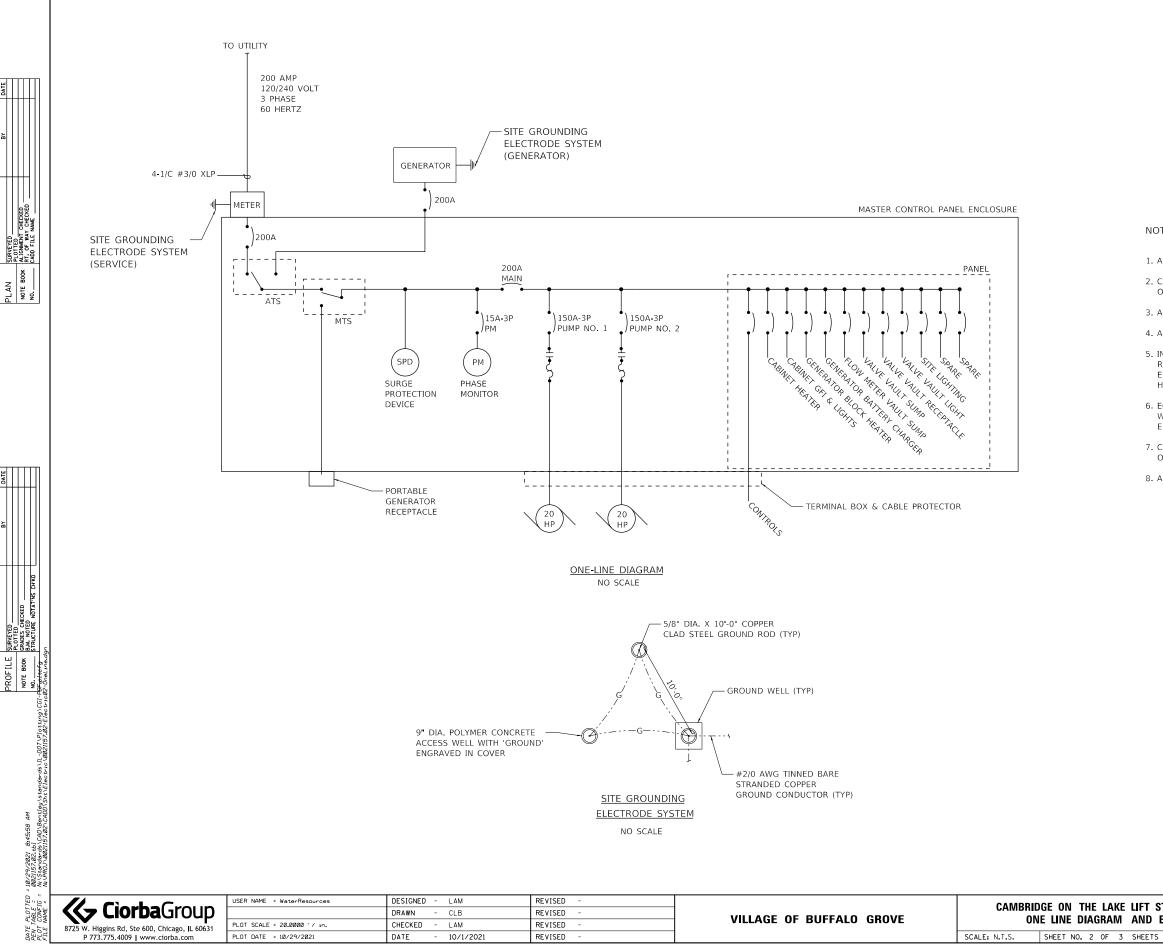
CONCRETE PAD

FOR 120/240 V

4 WIRE ELECTE







SCALE: N.T.S. SHEET NO. 2 OF 3 SHEETS

NOTES

1. ALL COMPONENTS AND ASSEMBLIES SHOWN ARE NEW UNLESS NOTED.

2. CONTRACTOR TO COORDINATE WITH COMED PRIOR TO ANY WORK ON EXISTING ELECTRICAL SERVICE.

3. ALL ELECTRICAL COMPONENTS SHALL BE NEMA 4X RATED.

4. ALL PENETRATIONS IN STRUCTURES SHALL BE SEALED COMPLETELY.

5. INSTALLATION OF ELECTRICAL SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE 2020 NATIONAL ELECTRICAL CODE, 2020 NATIONAL ELECTRICAL SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ACT, APPLICABLE LOCAL CODES AND REGULATIONS.

6. EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH 2020 NATIONAL ELECTRICAL CODE, 2020 NATIONAL ELECTRICAL SAFETY CODE, AND RELATED CODES.

7. CONDUIT PENETRATIONS SHALL BE MADE THROUGH THE BOTTOM OF FOUNDATION ONLY.

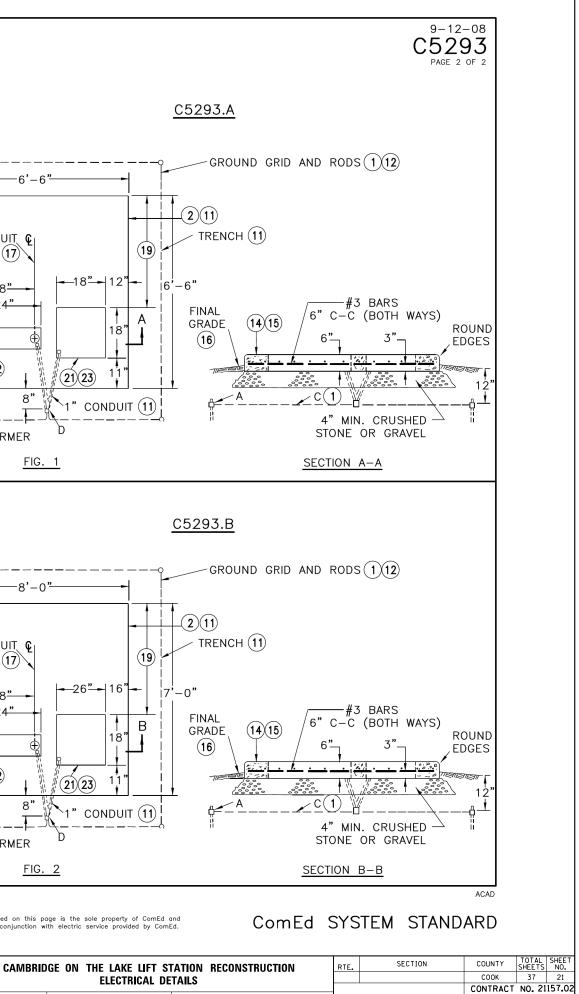
8. ALL BREAKERS SHALL BE 20A UNLESS OTHERWISE NOTED.

| ST | ATION | RECO | NSTRUCTIO | N | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----|---------|--------|-----------|---|------|----------|----------|-----------------|--------------|
| F | I FCTRI | CAL DE | TAILS | | | | COOK | 37 | 20 |
| _ | | | | | | | CONTRACT | NO. 21 | 157.02 |
| 5 | STA. | - | TO STA. | - | | ILLINOIS | | | |

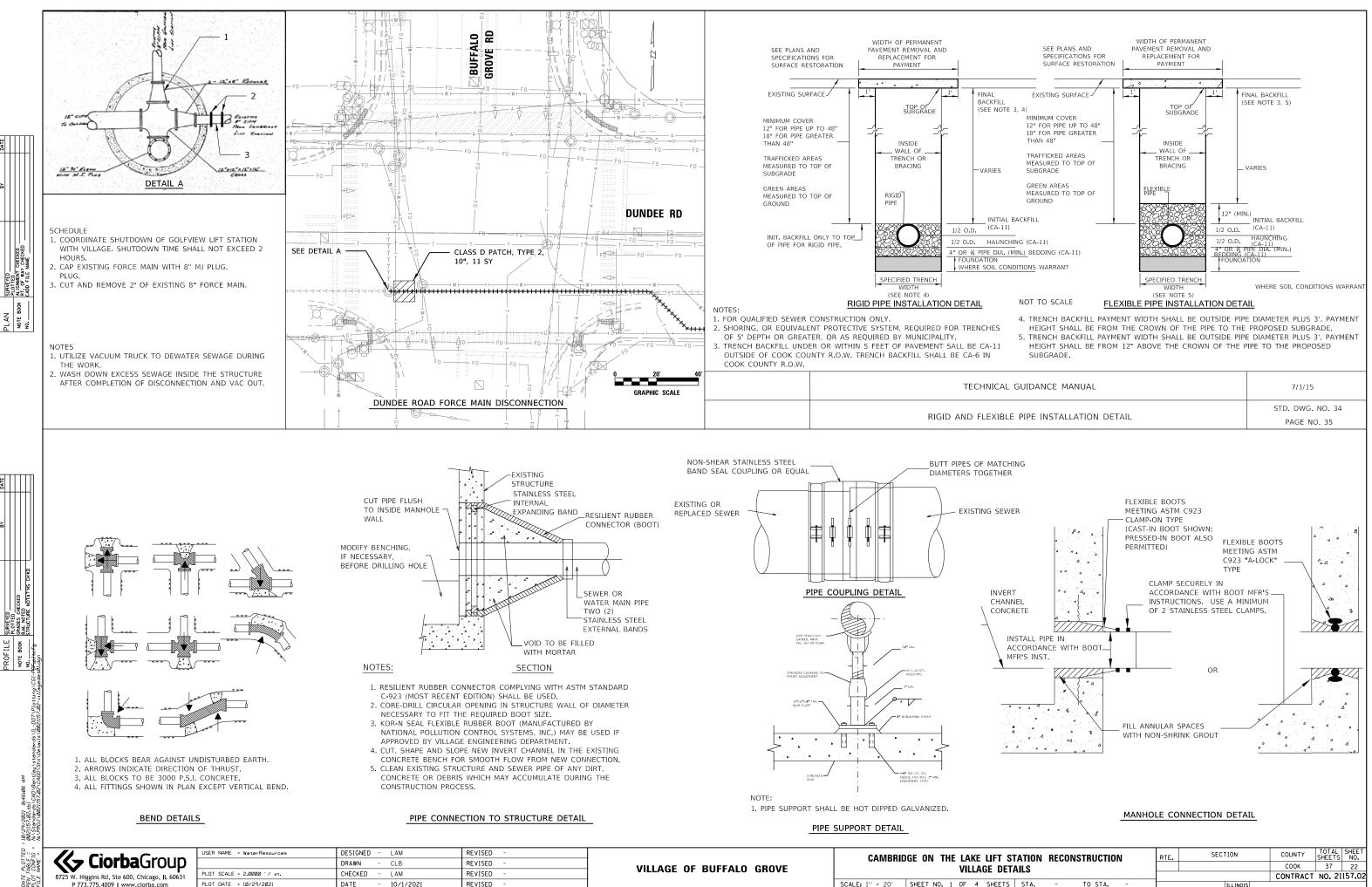
| Γ | | |
|--|--|--|
| | 9-12-08 REVISES STANDARD DATED 4-1-97 9-12-08 C5293 COMPATIBLE UNITS AVAILABLE IN PASSPORT C5293 DATE 1 05 0 DATE 1 05 0 | C5293 |
| | PAGE 1 OF 2 3-PH FEEDTHRU COMPT TR PAD - ESS2112 | PAGE 2 OF 2 |
| PLAN SURVEYED BY DATE NOTE BOOK RUTCHETCED NOTE BOOK PLICONATCHETCED NOCOD FILE NAME | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | NORTH ARROW $-12^{n} - 6' - 6''' - 6'' - 6'' - 6'' - 6'' - 6'' - 6'' -$ |
| | ITEM CAT ID DESCRIPTION TABLE-1 CAT ID UNIT QUANTITY A GROUNDING INSTALLATION C8550GO 1 1 C WIRE,COPPER, OVERHEAD, BARE, 1/0, 19 STR, SOFT DRAWN TINNED, 3 (1) 0000355082 FT 55 60 D CONNECTOR, COMPRESSION, 1/0 OR 2/0 STR CU. RUN & TAP, BURNDY C 0000368545 EA 1 1 | 15" 21 22 21 23 11" 8" 1" CONDUIT (1) FRONT OF TRANSFORMER |
| | | <u>FIG. 1</u> |
| 18/29/2821_845:59_AM 18/29/2821_845:59_AM McPC-1800X_BALE 18/56040-65/26128222 McPC-18/56040 McPC-18/560128 MCPC-18/560128 MCPC-18/5601 | NOTES: APPLICATION THIS STANDARD SHALL BE USED FOR THE INSTALLATION OF AN ELECTRIC SERVICE STATION FOUNDATION AS DESCRIBED IN "Comed's GENERAL TERMS AND CONDITONS". TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. GRADE AWAY FROM FOUNDATION, FINAL GRADE SHALL BE WELL DRAINED AT ALL TIMES. TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. GRADE AWAY FROM FOUNDATION, FINAL GRADE SHALL BE WELL DRAINED AT ALL TIMES. TOP OF FOUNDATION IN DESIGNATED AREAS, DEVAINTONS FROM THE DESIGN ATS APREAS, DEVAINTONS FROM THE DESIGN AS SHOWN MUST HAVE ComEd APPROVAL. SEE C7723 FOR BURNDY-HUSKY DIE SET CROSS REFERENCE. CATIED ROBORED CABLES ARE LOCATED OR WITH 1/O LEAD CLAD COPPER CONDUCTOR (CATID 00003608009). SPECIFY STAINLESS STELL GROUND RODS PER C8550.CGC0. PRECAST ALTERNATIVES TO THIS POURED DESIGN MAY BE AVAILABLE. CONTACT DISTRIBUTION STANDARDS. DO NOT DISTURB GROUND IN FOUNDATION AREA MORE THAN NECESSARY WHEN INSTALLING CONDUITS AND RODS. THE CUSTOMER TO INSTALL THE TRANSFORMER FOUNDATION, 1 INCH COMDUTS, AND TERCH FOR COME GROUND WIRE (1) COMEd TO PROVIDE, INSTALL, AND TEST THE GROUND WIRE (2) AFTER PRIMARY AND SECONDARY CONDUITS ARE IN PLACE, BACKFILL WITH SCREENINGS, SMO, OR FINE EXCAMATED WATERIAL, COMPACT THOROUGHLY BEFORE POURING FOUNDATION. CONCRETE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE ACI CODE AND AR ENTRAINED. IT SHALL HAYE A MINIMM COMPRESSUE STRENDING TO SHALL HAYE AN ENTRIANGE OF CONCARE WITH THE LATEST EDITION OF THE APPLICABLE ACI CODE AND AR ENTRAINED. IT | NORTH ARROW $12^{"}$ $8'-0"$ 9 $13^{"}$ $13^{"}$ 9 15" $24"$ $18"$ 1100 110 |
| 10,29,2021 В.45:59 АМ 14, Pr-0, 10021157 20,20211 14, Serviders (S.0021157,00211 14, SPR0, 10021157,021(5400 | © Notice: The information contained on this page is the sole property of ComEd and is to be used only in conjunction with electric service provided by ComEd. ComEd SYSTEM STANDARD | FIG. 2 \bigcirc Notice: The information contained on this page is the sole property of ComEc is to be used only in conjunction with electric service provided by Co |
| DATE PLOTTED = N PEN TABLE = N PLOT CONFIG = N FILE NAME = N | With the second condition USER NAME = WaterResources DESIGNED - LAM REVISED - Mail VILLAGE OF BU 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 USER NAME = 20,0000 // In. CHECKED - LAM REVISED - VILLAGE OF BU | |
| 244 | P 773.775.4009 www.ciorba.com PLOT DATE = 10/29/2021 DATE - 10/1/2021 REVISED - | SCALE: N.T.S. SHEET NO. 3 OF 3 SHEET |

SCALE: N.T.S. SHEET NO. 3 OF 3 SHEETS STA.

TO STA.

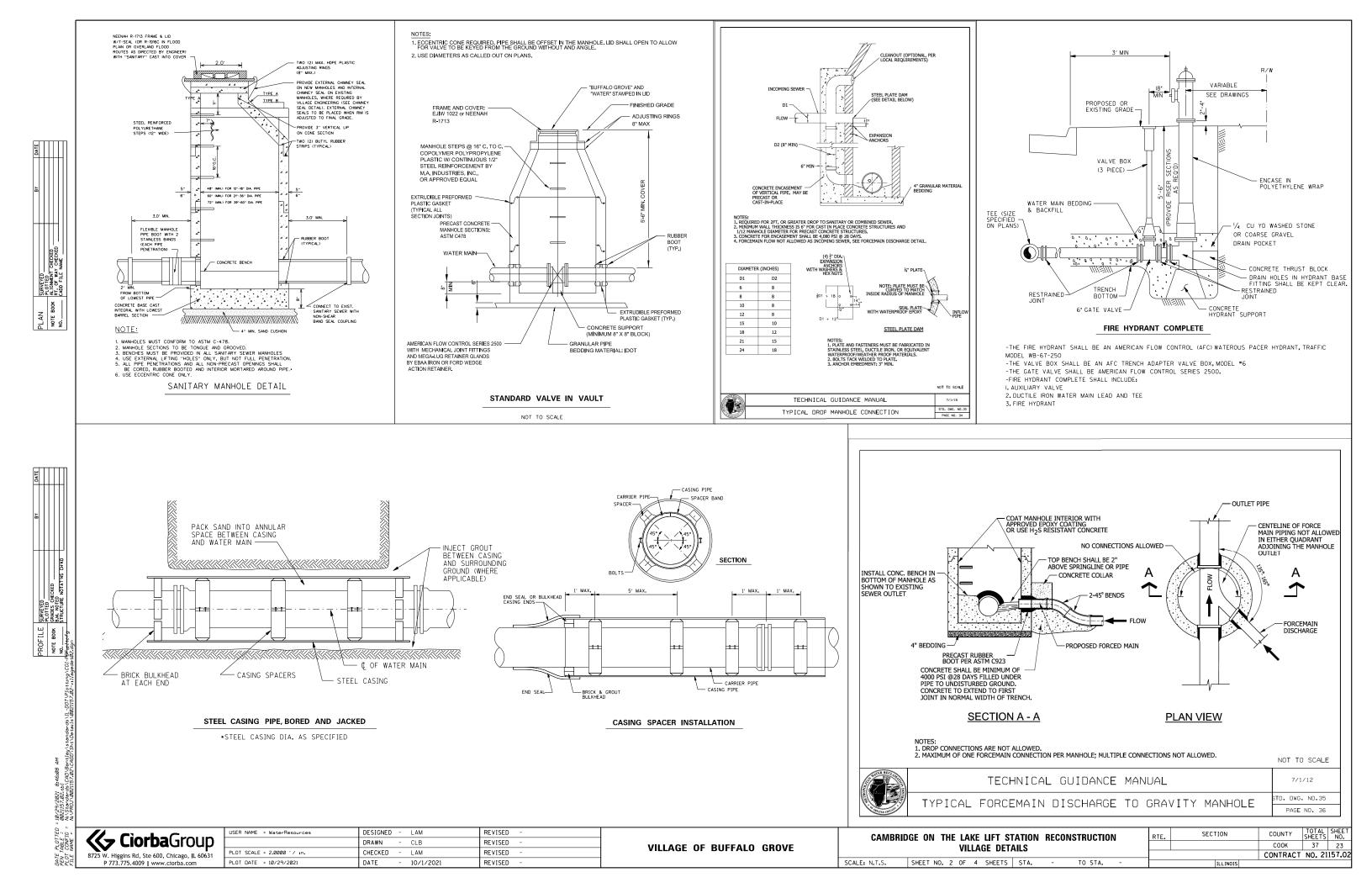


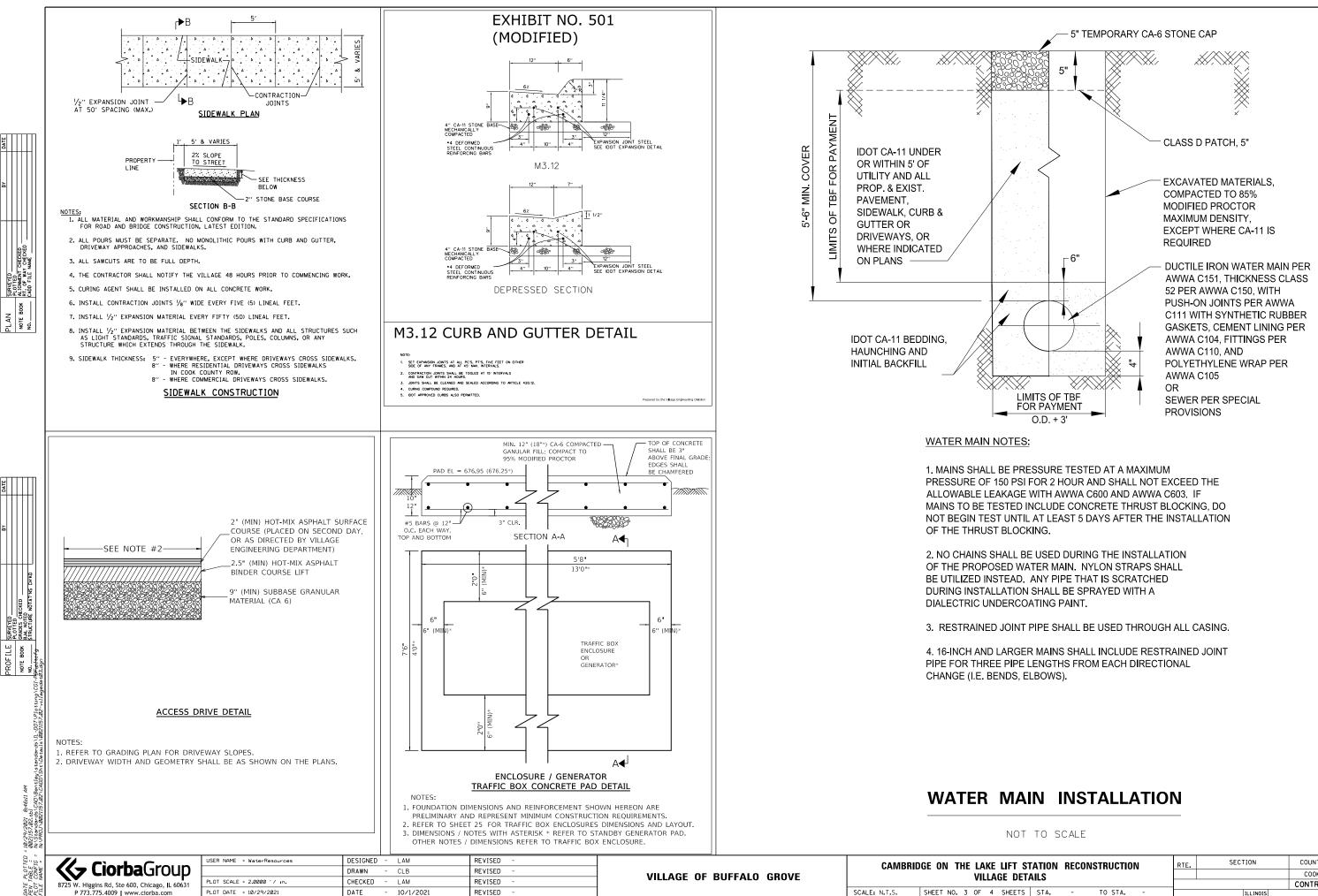
ILLINOIS



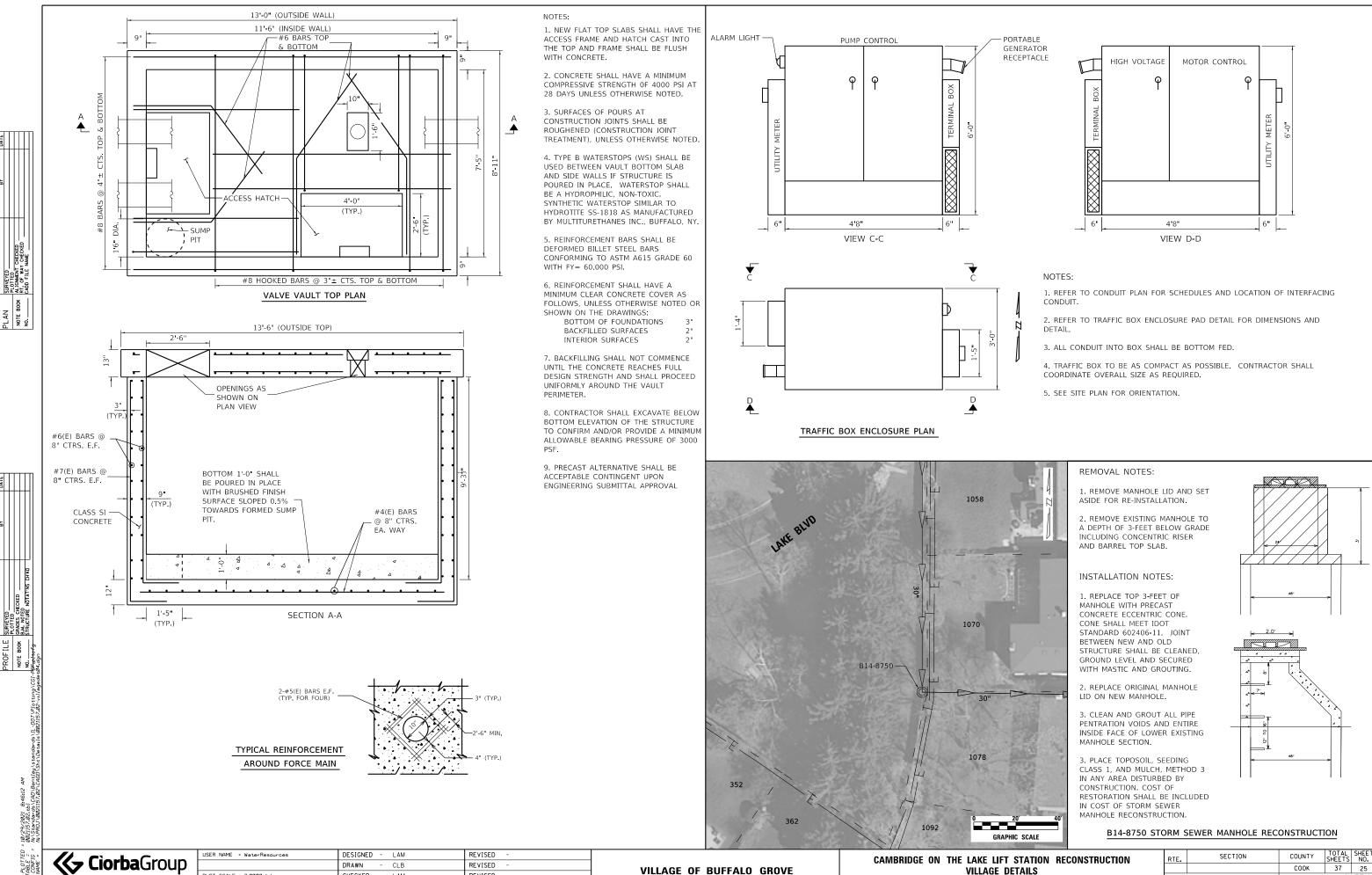
SCALE: 1" = 20' SHEET NO. 1 OF 4 SHEETS STA. PLOT DATE = 10/29/2021 DATE 10/1/202 REVISED P 773 775 4009 I www.ciorba.com

PEN PEN PLOT





| ST | ATION | RECO | NSTRUCTIO | ON | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----|-------|------|-----------|----|------|----------|----------|-----------------|--------------|
| T/ | AILS | | | | | | COOK | 37 | 24 |
| | | | | | _ | | CONTRACT | NO. 21 | 157.02 |
| 5 | STA. | - | TO STA. | - | | ILLINOIS | | | |



VILLAGE OF BUFFALO GROVE

VILLAGE DET.

SCALE: 1" = 20' SHEET NO. 4 OF 4 SHEETS

PL 07 CONF CONF PEN

8725 W. Higgins Rd, Ste 600, Chicago, IL 60631

P 773 775 4009 I www.ciorba.com

PLOT SCALE = 2.0000 ′ / in.

PLOT DATE = 10/29/2021

CHECKED

DATE

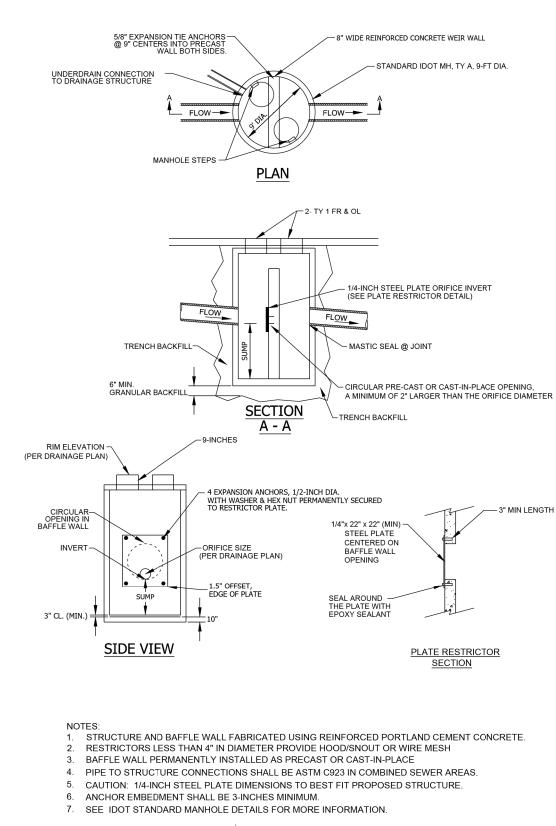
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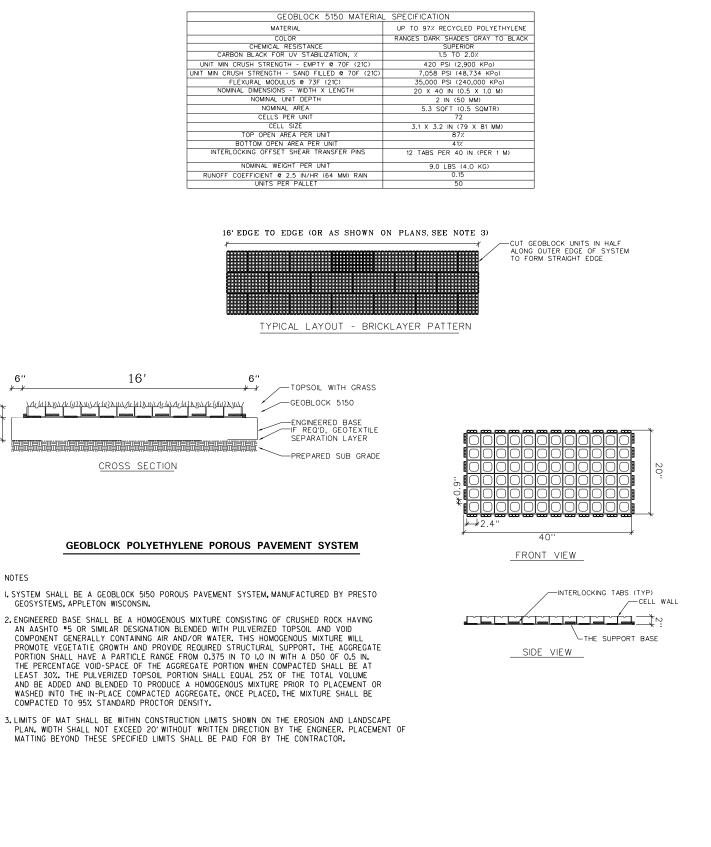
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| STATION RECONSTRUCTION | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------|------|----------|----------|-----------------|--------------|
| TAILS | | | COOK | 37 | 25 |
| | | | CONTRACT | NO. 21 | 157.02 |
| STA TO STA | | ILLINOIS | | | |









PL'

CKED VOTAT

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PROFILE NOTE BOOK

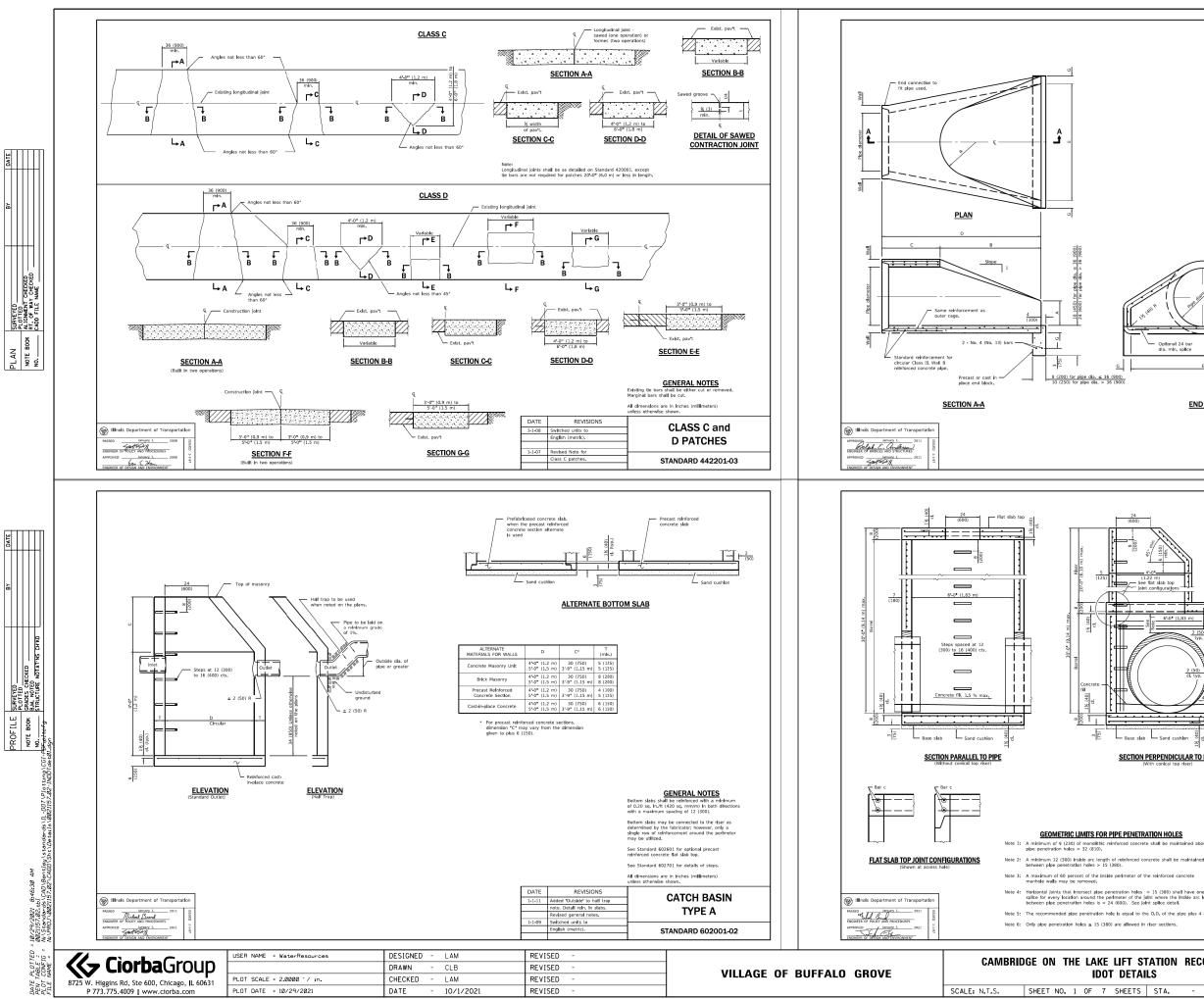
| Charles Current | USER NAME = WaterResources | DESIGNED - LAM | REVISED - | | САМРРІ | DGE ON THE LAKE LIFT STATION RECONSTRUCTION | RTF | SECTION | COUNTY | TOTAL SHEET |
|---|-----------------------------|------------------|-----------|--------------------------|---------------|---|-----|----------|----------|--------------|
| Ciorba Group | | DRAWN - CLB | REVISED - | VILLAGE OF BUFFALO GROVE | CAIVIDA | VILLAGE DETAILS | | | СООК | 37 26 |
| W. Higgins Rd, Ste 600, Chicago, IL 60631 | PLOT SCALE = 2.0000 ' / in. | CHECKED - LAM | REVISED - | VILLAGE OF BOFFALD GROVE | | VILLAGE DETAILS | | | CONTRACT | NO. 21157.02 |
| P 773.775.4009 www.ciorba.com | PLOT DATE = 10/29/2021 | DATE - 10/1/2021 | REVISED - | | SCALE: N.T.S. | SHEET NO. 5 OF 5 SHEETS STA TO STA | | ILLINOIS | | |

6''

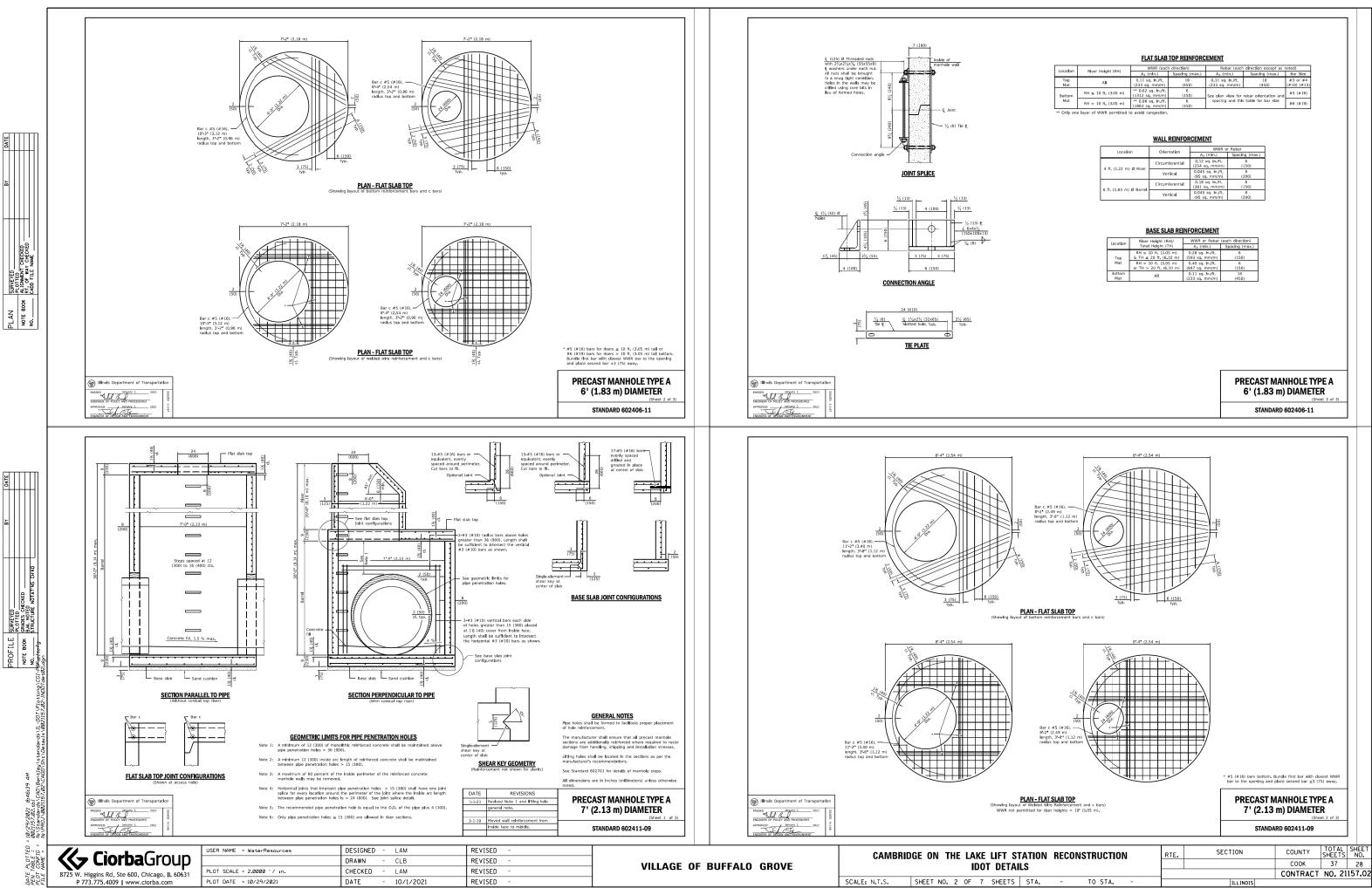
NOTES

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| 150 MATERIA | SPECIFICATION |
|---------------|----------------------------------|
| | UP TO 97% RECYCLED POLYETHYLENE |
| | RANGES DARK SHADES GRAY TO BLACK |
| | SUPERIOR |
| ATION, Z | 1.5 TO 2.0% |
| 70F (21C) | 420 PSI (2,900 KPa) |
| D @ 70F (21C) | 7,058 PSI (48,734 KPa) |
| 1C) | 35,000 PSI (240,000 KPa) |
| .ENGTH | 20 X 40 IN (0.5 X 1.0 M) |
| | 2 IN (50 MM) |
| | 5.3 SQFT (0.5 SQMTR) |
| | 72 |
| | 3.1 X 3.2 IN (79 X 81 MM) |
| | 87% |
| IIT | 41% |
| SFER PINS | 12 TABS PER 40 IN (PER 1 M) |
| | 9.0 LBS (4.0 KG) |
| MM) RAIN | 0.15 |
| | 50 |
| | |



| | PIPE DIA. (k | bs. WALL | A B | с | D | E | G | R | APPROX. SLOPE | |
|--|---|---|---|--|------------------------------------|---|--------------------------|----------------------------|---------------------------------|-------------------|
| | 12 53 (300) (24 | 30 2 40) (51) | 4 24 (102) (610) 6 27 | 4'-0%" (1.241 m)(3'-10" | 6'-0% 1.851 m) 6'-1 | 24 (610) 30 | 2 (51) 21/4 | 9 (229) 11 | 1:2.4 | |
| | 15 74 (375) (33 18 99 (450) (45 | 35) (57) 90 2½ | 6 27 (152) (686) 9 27 (229) (686) | (1.168 m)(3'-10" | 6 1 1.854 m) 6 1 1.854 m) | 30 (762) 36 (914) | 2% (57) 2% (64) | 11 (280) 12 (305) | 1:2.4 | |
| | 21 12 (525) (58 | 80 2¾ | 9 35 (229) (889) 9½ 3'-7½" | 38 (965) (30 | 6 1 1.854 m) 6 1½ | 3.6 | 2¾ (70) 3 | (305) 13 (330) 14 | 1:2.4 | |
| | (600) (69 | 30 (76) 30 3¼ | (241) (1.105 r 10½ 4'-0" (267) (1.219 r | n) (762) (25½ | 1.867 m) 6 1½ 1.867 m) | (1.219 m) 4 6 | (76) 3¼ (83) | (356) 14½ (368) | 1:2.5 | |
| | 30 21 (750) (99 | 90 3½ 95) (89) | 12 4'-6" (305) (1.375 r | 19¾ n) (502) (| 6-1¾ 1.874 m) | 5'-0" (1.524 m) | 3½ (89) | 15 (381) | 1:2.5 | |
| | 33 32 (825) (14 36 41 | 50) (95) 00 4 | 13½ 4'-10½ (343) (1.486 r 15 5'-3" | n) (997) (34¾ | 8 1¾ 2.483 m) 8 1¾ | 6'-0" | 3¾ (95) 4 | 17½ (445) 20 | 1:2.5 | |
| | (900) (18 42 53 (1050) (24 | 80 4½ 40) (114) | (381) (1.6 m 21 5'-3" (533) (1.6 m | 35 (889) (| 2.483 m) 8-2 2.489 m) | 6'-6' (1.981 m) | (102) 4½ (114) | (508) 22 (559) | 1:2.5 | |
| | 48 65 (1200) (29 54 82 | 70) (127) 40 5½ | 24 6'-0" (610) (1,829 r 27 5'-5" | 35 | 8'-4" | 7 0 (2.134 m) 7 6 | 5 (127) 5½ | 22 (559) 24 | 1:2.5 | |
| | (1350) (37 60 87 (1500) (39 | 30 6 60) (152) | (686) (1.651 r 35 5'-0" (889) (1.524 r | 39 n) (991) (| (2.54 m) 8-3 2.515 m) | (2.286 m) 8'-0" (2.438 m) | (140) 5 (127) | (610) | 1:1.9 | |
| | 72 125 | 60) (165) 520 7 | 30 6'-0" (762) (1.829 r 36 6'-6" | 21 | 8'-3 2.515 m) 8'-3 | 9.0 | 5½ (140) 6 | * | 1:1.7 | |
| | (1800) (56 78 147 (1950) (67 | 80) (178) 770 7½ | (914) (1.981 r 36 7'-6" (914) (2,286 r | n) (533) (21 | 2.514 m) 9'-3" 2.819 m) | (2.743 m) 9'-6" (2.896 m) | (152 6½ (165) | * | 1:1.8 | |
| | 84 181 (2100) (82 | 160 8 40) (203) | 36 7'-6½* (914) (2.299 r | 21 n) (533) (| 9-3½ 2.832 m) | 10'-0" | 6½ (165) | * | 1:1.6 | |
| | | | * Radlus as furn | shed by man | ufacturer | | | | | |
| | | | | | | | | | | |
| |) J | | | | | | | | | |
| | | | | | | | | | | |
| Optional 24 bar dia. min. spilce | | | | | | | | | | |
| E | | | | | | | | | | |
| | | | | All slope rat displacemer | tios are e | NERAL pressed a of horizo | as un i ts | of verti | cal | |
| END VIEW | | | | (V:H). All dimensio | ins are i n | inches (n | | | | |
| | DATE | | 5ION5 | unless othe | | | REIN | IFO | RCED | |
| | on S | ified ref. to p Section A-A. C er' to 'outer' | Changed | | CON | CRE | TE F | LAF | RED | |
| | 1-1-09 Swit | tched units to lish (metric). | | | | ND S | - | - | | |
| | | | | 1 | JIA | | - 542 | | | |
| 11+#4 (#13) birs requivalent, event spaced around pr Cut bars to IR. Optional | erlmeter. | equival spaced | (#13) bars or — ent, evenly around perimete rs to flt. Optional Joint | | 26 (660) | 14-#5 (#: evenly spa drilled and grouted in at center | aced d place | 8 | | |
| greater t | top 10) radius bars above :han 32 (810). Length | shall | | |) | | | (20 | | |
| 2 (50) 43 (#10 2 (50) 43 (#10 2 (#10 2 (50) 43 (#10 2 (#10) 2 (50) 43 (#10) 43 (#10) | lent to Intersect the v) bars as shown, cometric limits for enetration holes, | vertical | Single-element shear key at center of slab | | 4 100) | | ÷ | Ļ | | |
| 4 % | 10) vertkal bars each greater than 15 (380 0) cover from inside hall be sufficient to i rontal #3 (#10) bars e base slab joint nflgurations |) placed face. | | <u>BASE</u> | <u>SLAB JO</u> | INT COI | <u>NFIGU</u> | <u>RATIO</u> | <u>vs</u> | |
| | | | | | | | | | | |
| conical top riser) | | ~ | | | | | | | | |
| | | 15; | | | | | | | | |
| | | | | Dia 1 | GE | NERAL | NOTES | 5 | | |
| Sing | ile-element - | | | Plpe holes of hole rein The manufa | iforcemen | t. all ensure | that a | precasi | manhole | |
| DN HOLES cent all be maintained above | ter of slab SHEAR KEY 0 | <u>SEOMETRY</u> | | sections an damage fro | e addition m handlir | ally reinfo ig, shippir | nced wh ng and l | nere requ Installati | ulred to resist on stresses. | |
| te shall be maintained | (Reinforcement not | shown for cla | rity) | Lifting hole manufactur | er's recon | nmendatio | ons. | | | |
| inforced concrete | | | | See Standa All dimension noted, | | | | | teps. ss otherwise | |
| 5 (380) shall have one joint where the Inside arc length | DATE | | SIONS | | RECA | ST MA | VNH4 | | IYPE A | |
| plice detail. D, of the pipe plus 4 (100), | | sed Note 1, N g hole genera | | | | .83 n | | AME | TER | |
| r sections. | | ed wall reinfo le face to mic | rcement from | | ST | ANDARI | D 602 | | (Sheet 1 of 3) 1 | |
| TION RECONSTRUCTI | | RTE. | | 5ECTION | | | C | UNTY OOK | SHEETS 37 | SHEE NO. 27 |
| STA TO STA. | - | | | ILLI | NOIS | | CON | TRA | CT NO. 21 | 157.0 |
| | | | | 1.000 | -1 | | | | | |



PLOT DATE = 10/29/2021

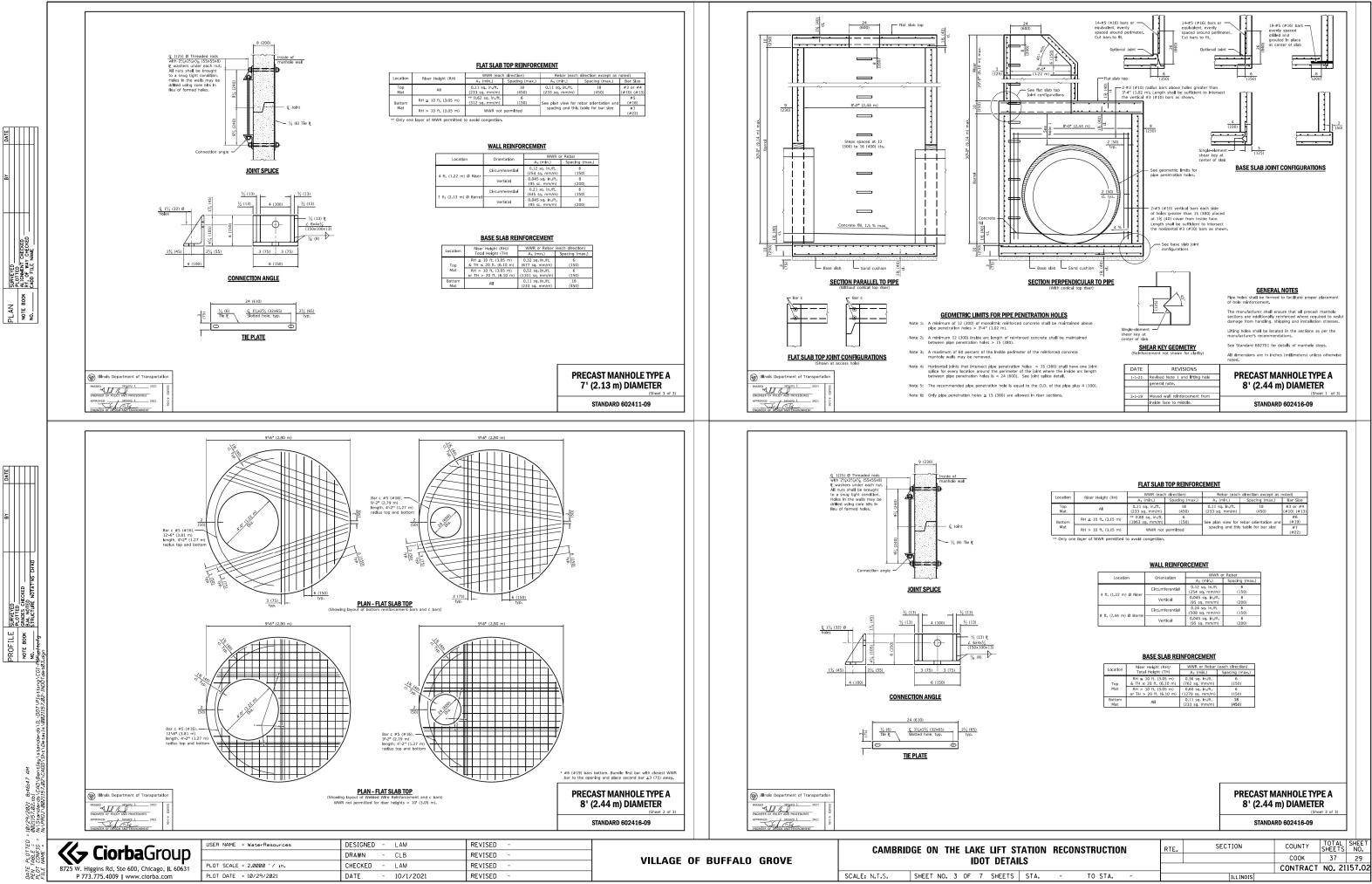
SCALE: N.T.S. SHEET NO. 2 OF 7 SHEETS STA.

| Location | Riser Height (RH) | WWR (each | n direction) | Rebar (each | direction except as r | noted) |
|------------|----------------------|--|----------------|------------------|-----------------------|-------------------------|
| Location | Riser Height (RH) | As (mln.) | Spacing (max.) | As (min.) | Spacing (max.) | Bar Size |
| Top Mat | All | 0.11 sq. in./ft. | 18 | 0.11 sq. in./ft. | 18 | #3 or #4 (#10) (#13) |
| Mat | | (233 sq. mm/m) | (450) | (233 sq. mm/m) | (450) | (#10) (#13) |
| Bottom | RH ≤ 10 ft. (3.05 m) | ** 0.62 sq. ln./ft. (1312 sq. mm/m) | | | rebar orlentation and | #5 (#16) |
| Mat | RH > 10 ft. (3.05 m) | ** 0.88 sq. in./ft. (1863 sq. mm/m) | 6 (150) | spacing and this | s table for bar size | #6 (#19) |

| Location | Orientation | WWR o | r Rebar |
|-------------------------|-----------------|------------------------------------|----------------|
| Location | orientation | A _s (min.) | Spacing (max.) |
| 4 ft. (1.22 m) Ø Riser | Circumferential | 0.12 sq. in./ft. (254 sq. mm/m) | 6 (150) |
| 4 IL (1.22 III) & RISE | Vertical | 0.045 sq. in./ft. (95 sq. mm/m) | 8 (200) |
| 6 ft. (1.83 m) Ø Barrel | Circumferential | 0.18 sq. in./ft. (381 sq. mm/m) | 6 (150) |
| 6 IC (1.65 M) Ø Barrel | Vertical | 0.045 sq. in./ft. (95 sq. mm/m) | 8 (200) |

| Location | Riser Height (RH)/ | WWR or Rebar | (each direction) |
|----------|-------------------------|------------------|------------------|
| Location | Total Height (TH) | As (min.) | Spacing (max.) |
| | RH ≤ 10 ft. (3.05 m) | 0.28 sq. in./ft. | 6 |
| Тор | & TH ≤ 20 ft. (6.10 m) | (593 sq. mm/m) | (150) |
| Mat | RH > 10 ft. (3.05 m) | 0.40 sq. in./ft. | 6 |
| | or TH > 20 ft. (6.10 m) | (847 sq. mm/m) | (150) |
| Bottom | All | 0.11 sq. In./ft. | 18 |
| Mat | ~ | (233 sq. mm/m) | (450) |



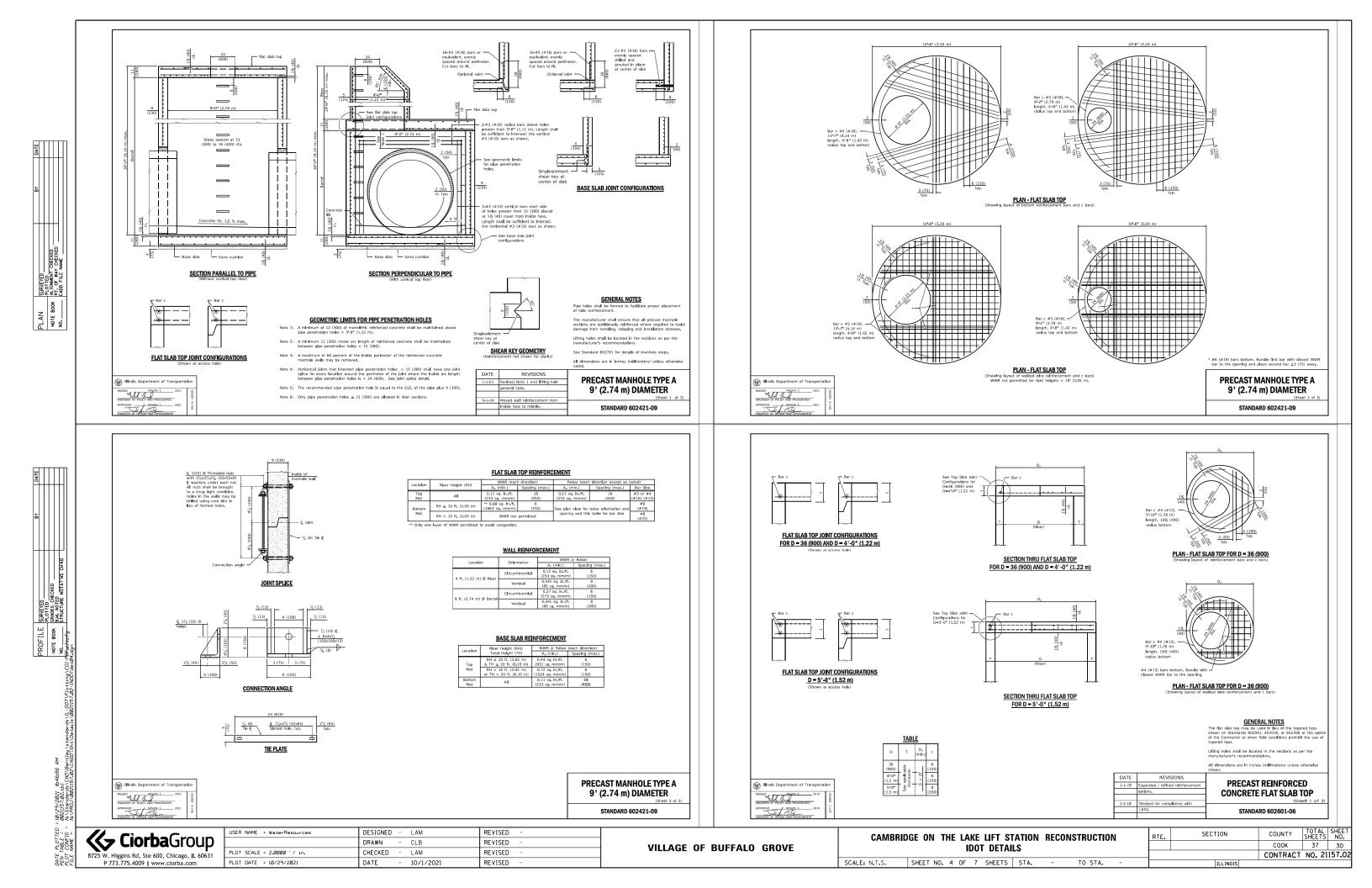


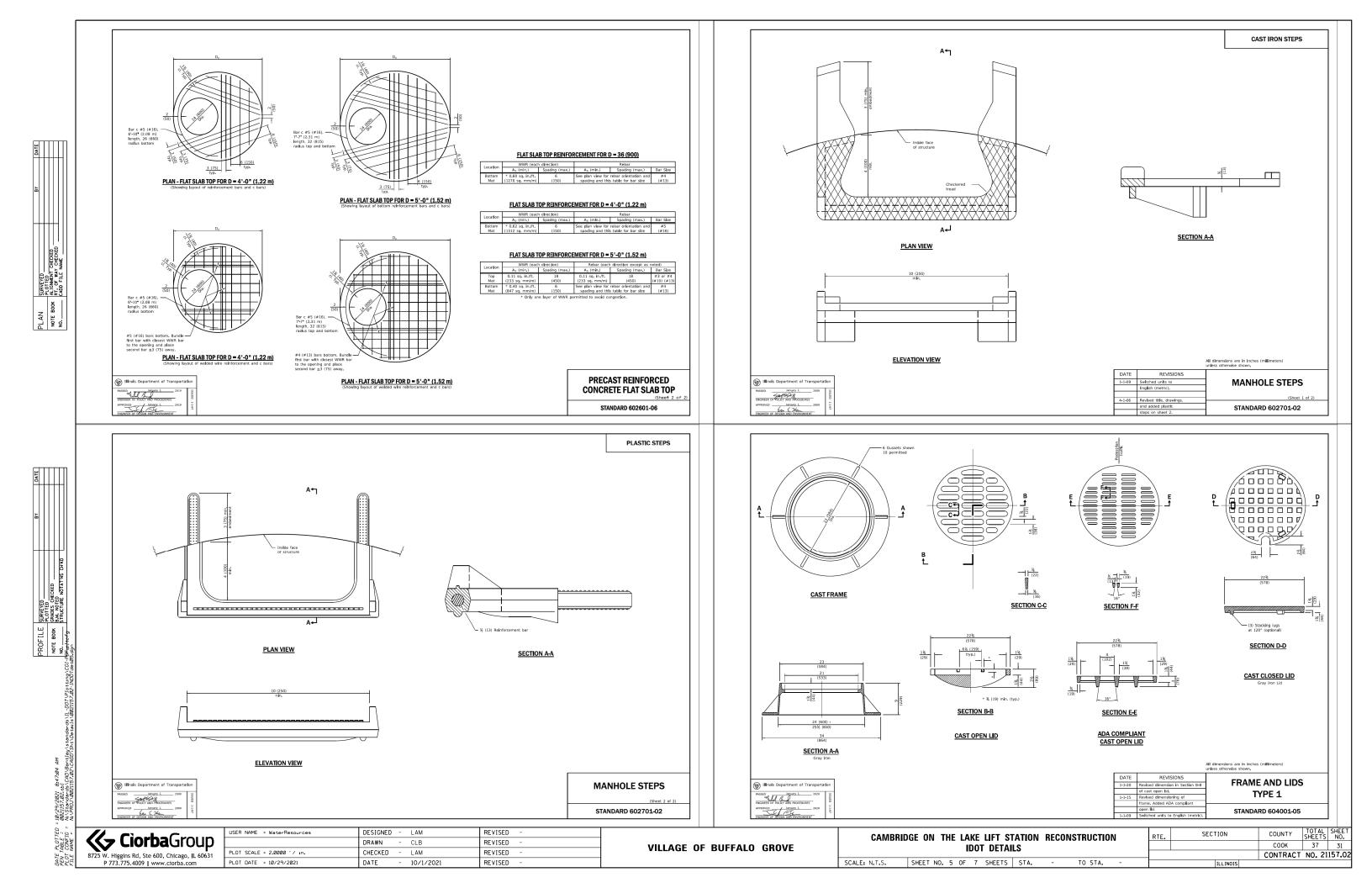
| Location | Riser Height (RH) | WWR (each | h direction) | Rebar (each | direction except as r | noted) |
|------------|----------------------|--|----------------|------------------------------------|-----------------------|-------------------------|
| Location | Riser Height (KH) | As (min.) | Spacing (max.) | As (min.) | Spacing (max.) | Bar Size |
| Top Mat | All | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | #3 or #4 (#10) (#13) |
| Bottom | RH ≤ 10 ft. (3.05 m) | ** 0.88 sq. in./ft. (1863 sq. mm/m) | 6 (150) | | rebar orientation and | #6 (#19) |
| Mat | RH > 10 ft. (3.05 m) | WWR not | permitted | spacing and thi | s table for bar size | #7 (#22) |

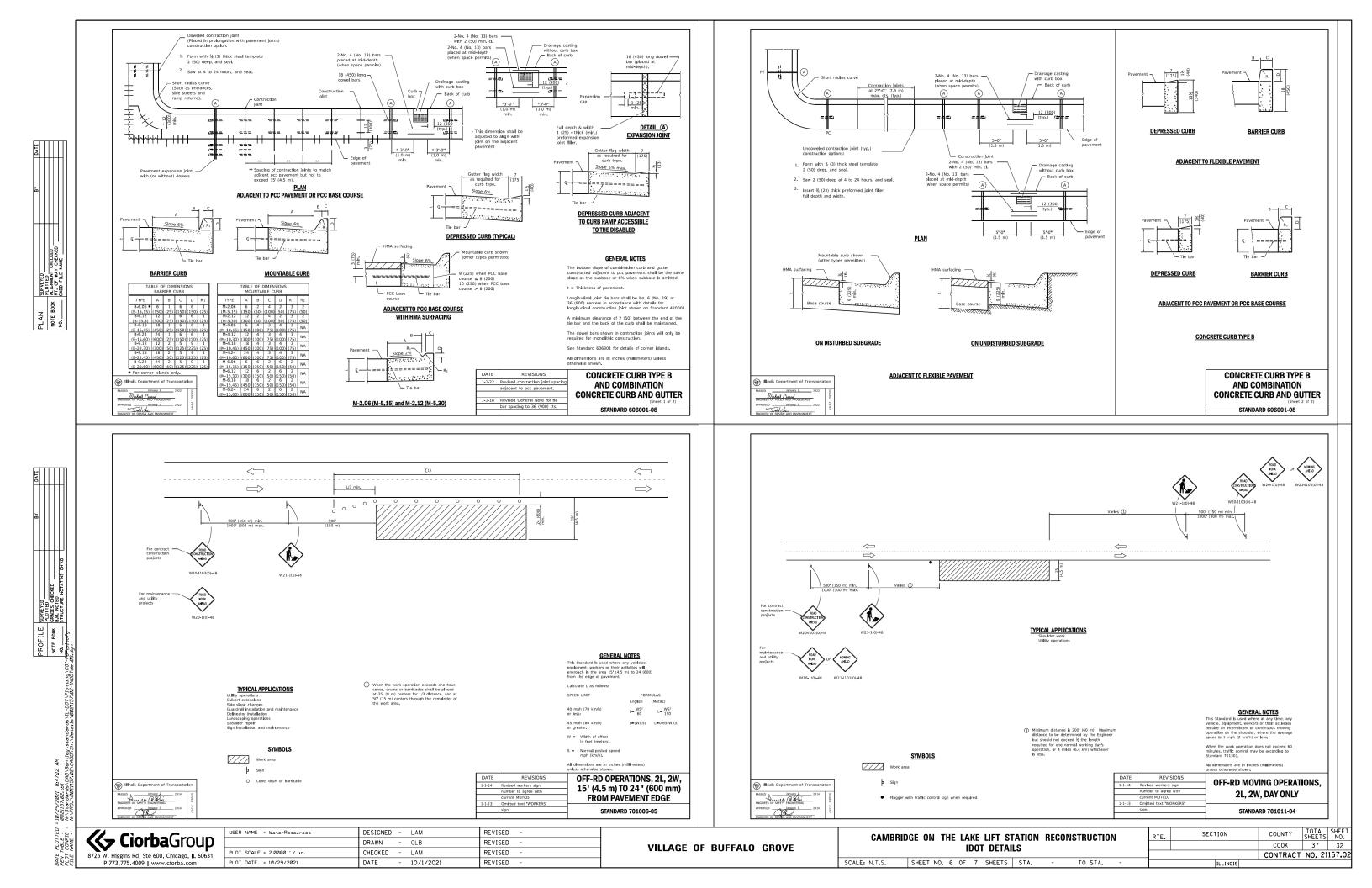
| Location | Orientation | WWR o | r Rebar |
|-------------------------|-----------------|------------------------------------|----------------|
| Location | onencadon | As (min.) | Spacing (max.) |
| 4 ft. (1.22 m) Ø Riser | Circumferential | 0.12 sq. in./ft. (254 sq. mm/m) | 6 (150) |
| 4 IL (1,22 m) Ø Riser | Vertical | 0.045 sq. in./ft. (95 sq. mm/m) | 8 (200) |
| 8 ft. (2,44 m) Ø Barrei | Circumferential | 0.24 sq. ln./ft. (508 sq. mm/m) | 6 (150) |
| 8 IC, (2,44 m) Ø Barrer | Vertical | 0.045 sq. in./ft. (95 sq. mm/m) | 8 (200) |

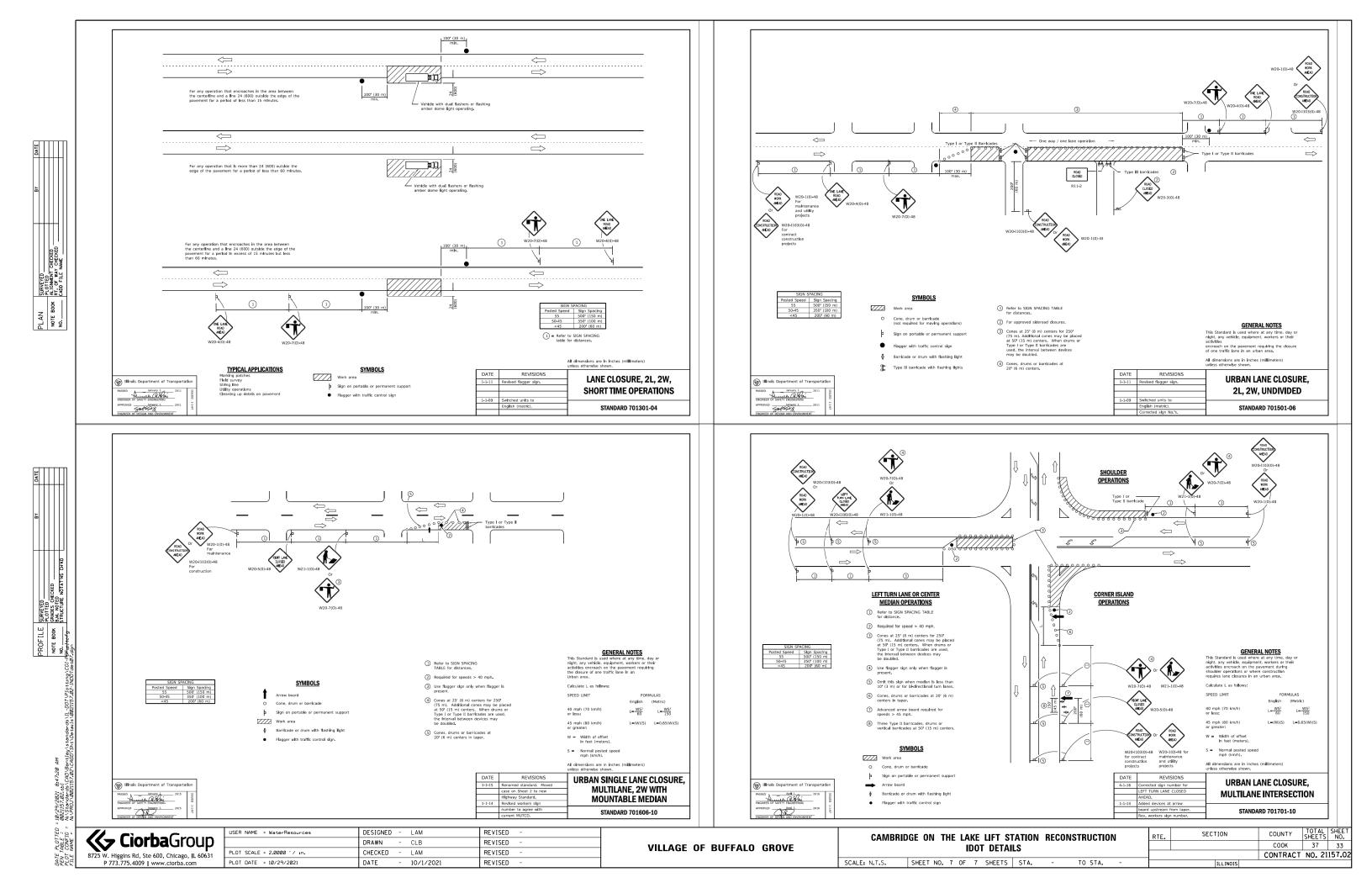
| Location | Riser Height (RH)/ | WWR or Rebar | (each direction) |
|----------|-------------------------|------------------|------------------|
| Location | Total Height (TH) | As (min.) | Spacing (max,) |
| Тор | RH ≤ 10 ft. (3.05 m) | 0.36 sq. In./ft. | 6 |
| | & TH ≤ 20 ft. (6.10 m) | (762 sq. mm/m) | (150) |
| Mat | RH > 10 ft. (3.05 m) | 0.60 sq. in./ft | 6 |
| | or TH > 20 ft. (6.10 m) | (1270 sq. mm/m) | (150) |
| Bottom | All | 0.11 sq. In./ft. | 18 |
| Mat | | (233 sq. mm/m) | (450) |

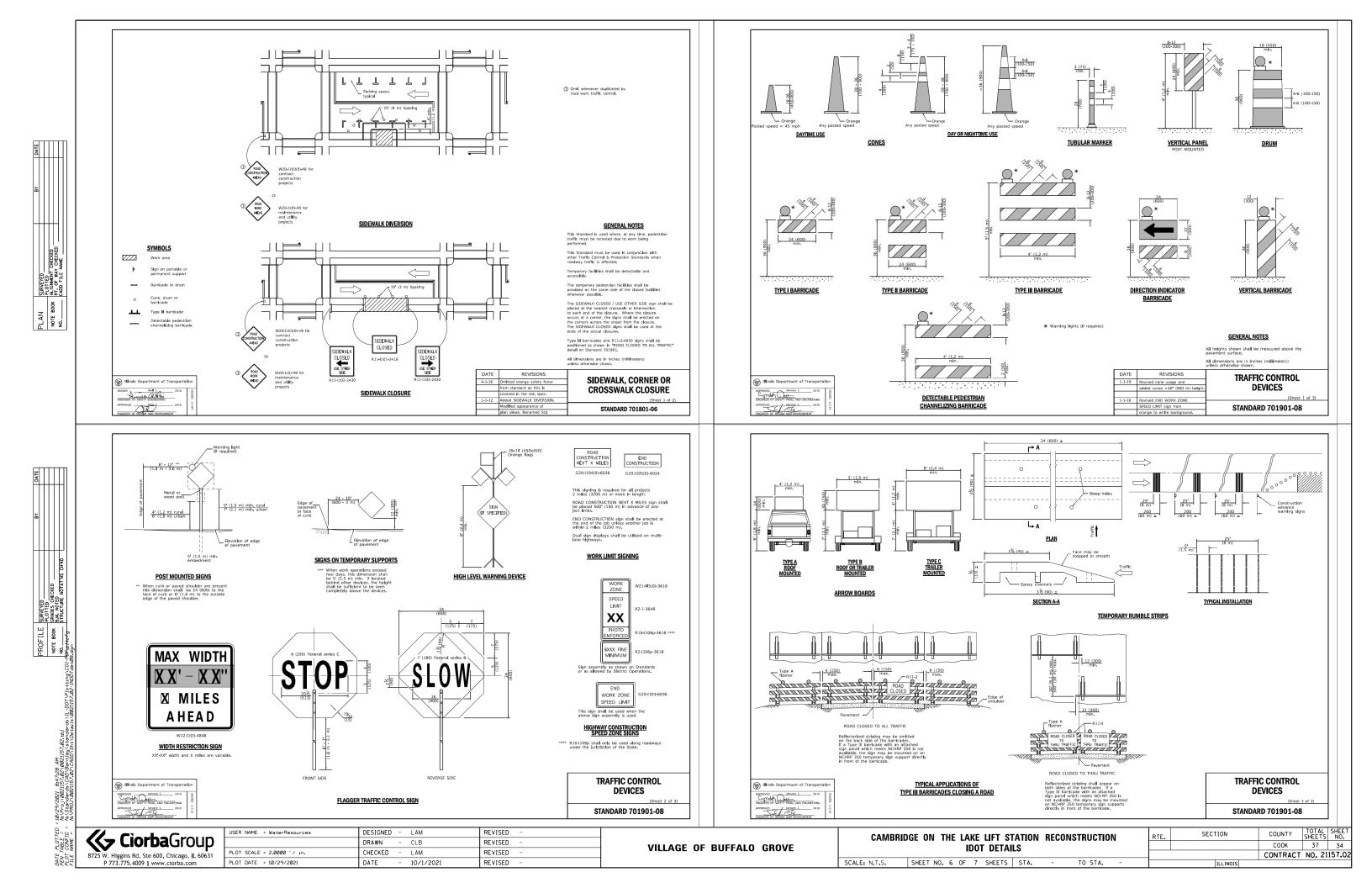
| ST | ATION | RECO | NSTRUCTIO | N | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| | | | | | | | CONTRACT | NO. 21 | 157.02 |
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VILLAGE EROSION AND SEDIMENT CONTROL NOTES

1. All erosion and sediment control measures are to be constructed and maintained in accordance with the Illinois Urban Manual, latest edition.

2. All erosion and sediment control measures shall be installed prior to the start of any construction or disturbance of the site. The measures may have to be adjusted to meet field conditions during construction. Any measures, in addition to those outlined in the plans and which are deemed necessary by the village, shall be implemented immediately by the developer

3. Regular inspection and maintenance of all erosion and sediment control measures must be provided by the contractor. Inspections should occur weekly, and after any rainfall greater than 1/2". Any non-functioning sediment control measures or damaged devices that are found during inspection shall be repaired or replaced immediately. The contractor shall be responsible for any sediment which leaves the property, and the contractor is also responsible for maintenance of all sediment control measures until the site is permanently stabilized.

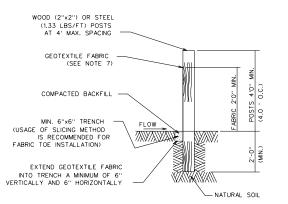
4. All points of construction ingress and egress shall be protected to prevent tracking of debris, dirt, and mud onto adjacent streets, parking lots, or properties. Any debris, dirt, or mud that reaches an improved public right-of-way, street, or parking area shall be promptly removed, and transported to a proper disposal area.

5. All sediment must be prevented from entering any public or private storm drainage system. Reusable inlet filter baskets, sediment basins, and water filtering bags, shall be provided as needed.

6. Topsoil stockpiles shall be located to avoid erosion of stockpile onto neighboring properties or into restored project areas. Stockpiles shall be located so that a drainage swale is located between the stockpile and any downstream properties. If a stockpile is to remain in place for more than 14 days, it must be seeded and blanketed to minimize soil erosion by both wind and water.

7. Disturbed areas shall be stabilized with temporary or permanent measures within 14 calendar days of the end of active hydrologic disturbance, or redisturbance

8. If dewatering services are used, adjacent properties and discharge locations shall be protected from erosion. Discharges from construction dewatering shall be routed through an effective sediment control measure such as a sediment trap, a sediment basin, or any other appropriate measure.



NOTES:

1. SILT FENCE SHALL BE PLACED AT LOCATIONS SHOWN

10' Min

PLAN VIEW

-MIL POLYETHYLENE

Letters 6" Min. Height

CONCRET

WASHOUT

ARF A

SIGN DETAIL

NOTES:

- SILT FERCE STALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AND WHERE INDICATED BY VILLAGE ENGINEERING.
 ATTACH GEOTEXTILE FABRIC TO WIRE MESH WITH HOG RINGS, TO WOOD POSTS WITH NALS, AND TO STEEL POSTS WITH TIE-WIRES AT TOP AND MID-SECTION.
 OVERLAP CEDIEXTILE FABRIC BY 6" AND FOLD WHERE 2 SECTIONS ADJOIN.
 INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER
- WEEK AND AFTER RAIN EVENTS IN EXCESS OF HALF INCH ('&') PER DAY OR EQUAL SNOW MELT. REPAIR OR REPLACEMENT OF SILT FENCE SHALL BE MADE PROMPTLY AS NEEDED. SEDIMENT TRAPPED BY THE SILT FENCE SHALL BE REMOVED (AND

SILT FENCE

DETAIL

- PROMPTLY DISPOSED OF) WHENEVER SEDMENT ACCUMULATION DEPTH AT THE SILT FENCE IS APPROXIMATELY EQUAL TO TWELVE (12) INCHES (ONE-HALF OF SILT FENCE HEIGHT)
- SILT FENCE HEIGHID. MATERIAL (GEOTEXTILE & POST) INSTALLATION, MAINTENANCE, AND SILT FENCE REMOVAL SHALL COMPLY WITH AASHTO, M 288 REQUIREMENTS. THE FABRIC FOR SILT FENCE SHALL BE A WOVEN FABRIC MEETING THE REQUIREMENTS OF AASHTO M 288 (TABLE 7) FOR UNSUPPORTED SILT FENCE WITH LESS THAN 50 PERCENT GEOTEXTILE ELONGATION.
- SILT FENCE SHALL BE MAINTAINED IN PLACE UNTIL COMPLETION OF CONSTRUCTION AND THE UPSLOPE AREA HAS BEEN STABILIZED, AND SHALL BE REMOVED ONLY WHEN DIRECTED BY VILLAGE ENGINEERING.

- STRAW BALE

6" WIRE STAPLE OR SANDBA

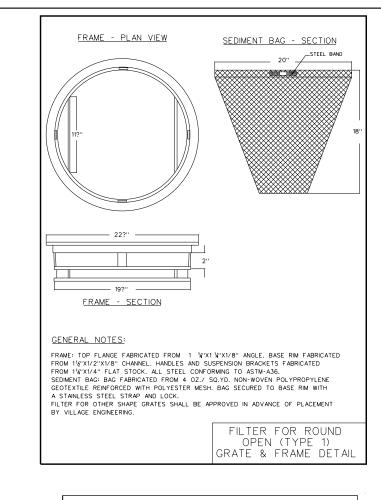
Plywood or Aluminum _48'' X 24'' Min.

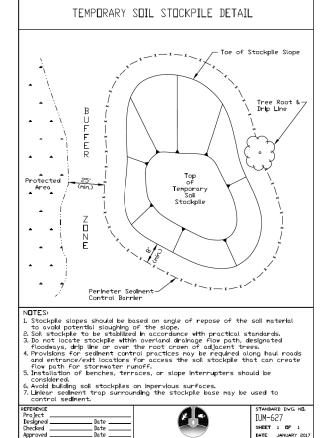
, 4"x4"x6' Wood Post o 6' Steel Post Min.

Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

Each straw bale is to be staked in place using (2) 2"x2"x4" wonden stakes

TEMPORARY CONCRETE WASHOUT FACILITY-STRAW BALL

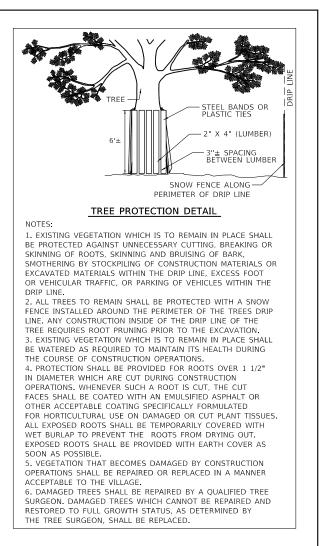




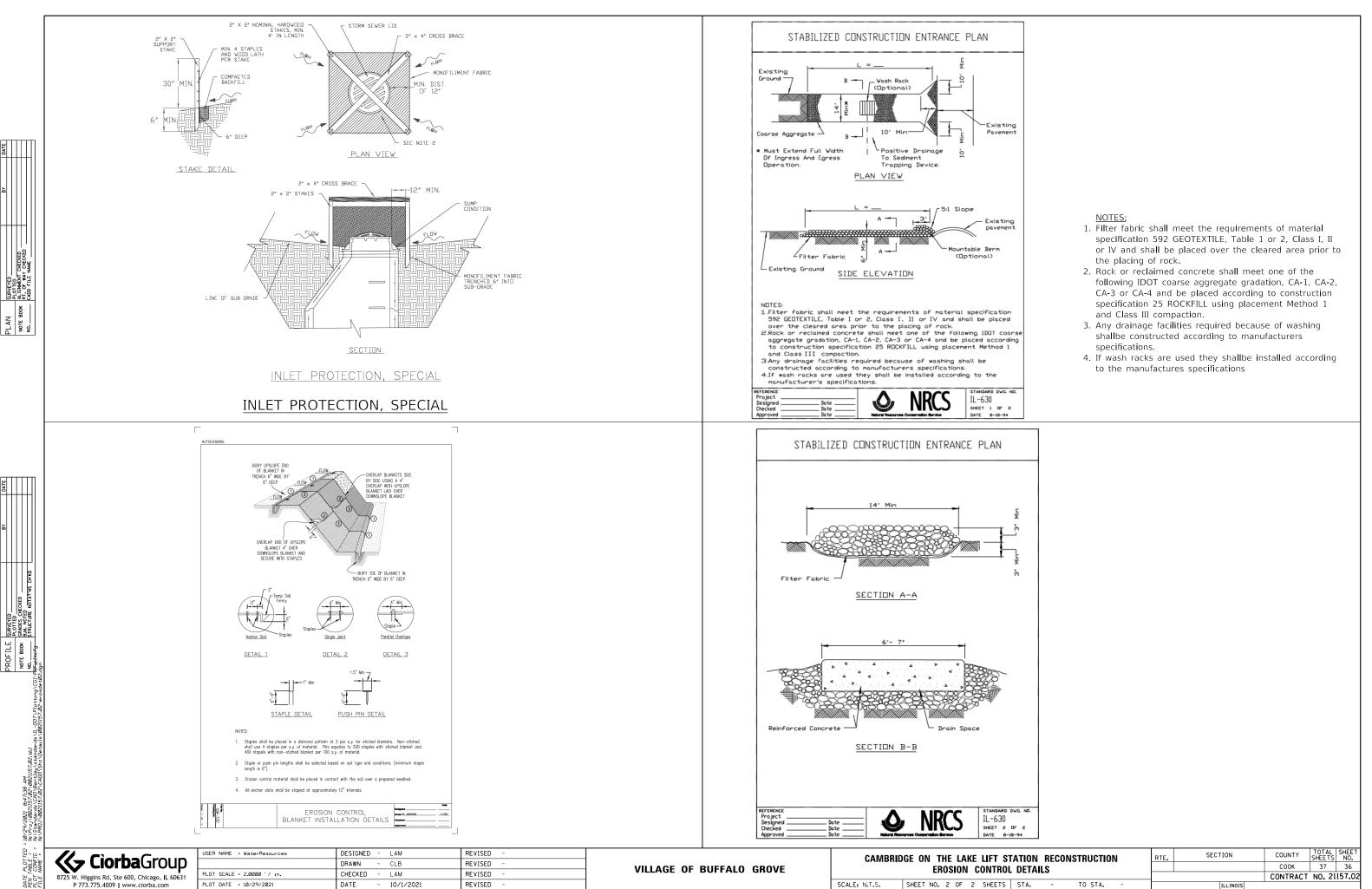


| // Carte Care | USER NAME = WaterResources | DESIGNED - LAM | REVISED - | | CAMPDIC | GE ON THE LAKE LIFT ST | ~ |
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| K CìorbaGroup | | DRAWN - CLB | REVISED - | VILLAGE OF BUFFALO GROVE | GAIVIDNIL | | |
| 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 | PLOT SCALE = 2.0000 ' / in. | CHECKED - LAM | REVISED - | VILLAGE OF BUFFALU GROVE | | EROSION CONTROL | |
| P 773.775.4009 www.ciorba.com | PLOT DATE = 10/29/2021 | DATE - 10/1/2021 | REVISED - | | SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | : |
| | • | • | • | | | • | _ |

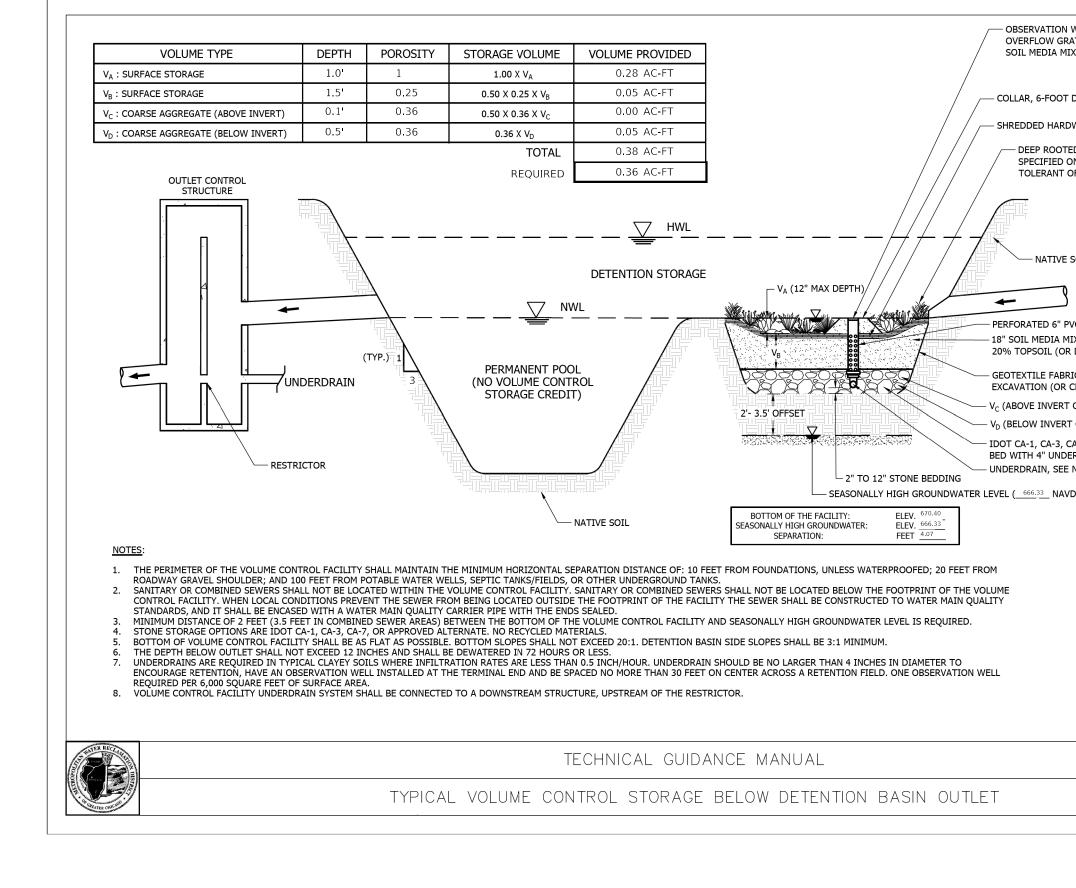
STRAW BALE ANCHOR SECTIONS



| ST | ATION | RECO | VSTRUCTIO | N | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| | DEIM | | | | | | CONTRACT | NO. 21 | 157.02 |
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| K CìorbaGroup | USER NAME = WaterResources | DESIGNED - LAM DRAWN - CLB | REVISED - REVISED - | VILLAGE OF BUFFALO GROVE | | DGE ON THE LAKE LIFT STA ONTROL STORAGE BELOW D |
|--|-----------------------------|-------------------------------|------------------------|--------------------------|---------------|--|
| 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 | PLOT SCALE = 2.0000 ' / in. | CHECKED - LAM | REVISED - | VILLAGE OF BUFFALU GROVE | VULUIME CU | JNIKUL STURAGE BELUW D |
| | PLOT DATE = 10/29/2021 | DATE - 10/1/2021 | REVISED - | | SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS S |
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| DN WELL, 6" PVC PIPE WITH GRATE. NON PERFORATED ABOVE MIX 6" -12" ABOVE GROUND | | |
|--|-----------------|--|
| DT DIAMETER MINIMUM | | |
| RDWOOD MULCH LAYER (3") | | |
| DTED NATIVE PLANTS, INSTALLED AS D ON PLANS. USE VEGETATION T OF WET AND DRY CYCLES. | | |
| | | |
| /E SOIL | | |
| 3 | | |
| ' PVC PIPE WITH NYLON SOCK .MIX, 50% SAND 30% COMPOST OR DISTRICT MIX) | | |
| BRIC, NOT TO COVER ENTIRE BOTTO R CHOKING STONE PER ENGINEER AF | | |
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| ERT OF UNDERDRAIN) | | |
| 8, CA-7 COARSE AGGREGATE STORAGE IDERDRAIN PERFORATED PIPE EE NOTES 7 AND 8 | 5 | |
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