ADDENDUM 02 FOR 2024 WHITE PINE STREET & UTILITY PROJECT VILLAGE OF BUFFALO GROVE, IL VoBG 2024-02

Date of Addendum: Friday, November 10, 2023

Bid Due Date: 10:00 AM Thursday, November 16, 2023

#### **Description of Addendum:**

The following items provide additional clarification and modifications to the bid documents and are made a part of the bid documents for the Village of Buffalo Grove's '2024 White Pine Street & Utility Project'. It is the bidder's responsibility to review all bid documents thoroughly in preparation of their bid. Additionally, this addendum shall be attached to the bid proposal.

#### Schedule of Prices:

1. A revised schedule of prices is included with this addendum. Various pay item quantities have been adjusted, new quantities have been added, and a few pay items have been omitted based on an internal review of the bid documents and other changes included with Addendum 02. This shall replace the respective Schedule of Prices previously included in the bid documents.

#### Plan & Specification Modifications or Clarifications:

- 2. A revised plan set is included with this addendum. This shall replace the respective plan set previously included in the bid documents.
- 3. Construction layout will be performed by the Engineer.
- 4. Stone bedding of all pipes as shown on the plan details shall be included in the cost of the pipe.
- 5. The Contractor is responsible for following all plumbing code requirements for service installations.
- 6. Frame and grate manufacturers shall be consistent within the project limits as indicated within Exhibit No. 109, unless written approval from the Village and Engineer is provided.
- 7. The following shall be added to the 'Fire Hydrant Assembly, Complete' Special Provision:

The Contractor shall furnish and install heavy-duty  $\frac{1}{2}$ " diameter steel hydrant markers measuring four (4) feet high with a 3" wide by 2-3/4" high flag. The entire apparatus shall have a red powder-coated finish with a loop mount that slips over any 2-1/2" NST outlet and is held in place by the hydrant cap. Steel hydrant markers shall be manufactured by Hydro Hitch, Part #: 85935, or approved equal. The flag shall be wrapped in one (inch) wide white reflective marking tape meeting the requirements of Type II Sheeting.

The steel hydrant markers shall be installed on the right side, while facing the front, of each new fire hydrant after the new distribution system is live and the temporary protective bags are removed and no longer required. The Contractor shall submit a shop drawing for approval of the steel hydrant marker and white reflective marking tape prior to ordering or incorporation into the project.

8. The following Special Provision shall be added to the bid documents:

#### Frames and Lids, Type 1, Closed Lid (Storm) (Special)

This work shall include all labor, material, and equipment necessary to furnish and install frames and lids, of the type specified, at locations shown on the Engineering plans in accordance with Section 604 of the Standard Specifications and as specified herein.

The structure shall be brought flush to the surrounding elevation with new adjustment rings. Adjustment ring material type and method shall be in accordance with Exhibit No. 109 Materials List, as specified herein. Bricks, aggregate, lathe, or any other organic material shall not be used as shim materials or otherwise.

The lid shall be cast iron with the word 'Storm' imprinted and embossed with 'Village of Buffalo Grove, in accordance with Section 604 of the Standard Specifications.

The existing frame and lid shall be salvaged and delivered to the Village of Buffalo Grove Public Works yard or at a location determined by the Village. Any material not suitable for salvage shall be disposed of off-site according to Article 202.03 of the Standard Specifications.

This work will be measured in place and paid for at the contract unit price per each (EA) for FRAMES AND LIDS, of the type specified, (STORM), (SPECIAL) which price shall include all labor, material, and equipment required to complete the work as specified herein.

PLEASE NOTE AND INCLUDE	THIS ADDENDUM IN YOUR RESPONSE:	
PROSPECTIVE RESPONDER:		
SIGNED:	DATE:	
<u> </u>	End of Addendum 02	

#### **SCHEDULE OF PRICES**

Base Bid Scope of Work:

For the complete scope of work and information covering these items, see the plans and specifications.

#### 2024 WHITE PINE STREET AND UTILITY PROJECT

The following Unit Prices will be used for basis of payment and shall be the bidder's proposal for completing the entire improvements herein.

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	VALUE
1	TREE TRUNK PROTECTION	192.0	EA	\$	\$
2	TREE ROOT PRUNING	124.0	EA	\$	\$
3	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	620.0	CY	\$	\$
4	TRENCH BACKFILL, COARSE AGGREGATE, CA-11 (SPECIAL)	3,700.0	CY	\$	\$
5	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	620.0	SY	\$	\$
6	GENERAL LANDSCAPE RESTORATION (SPECIAL)	4,600.0	SY	\$	\$
7	MOWING (SPECIAL)	4.0	EA	\$	\$
8	SUPPLEMENTAL WATERING	16.0	UN	\$	\$
9	TEMPORARY EROSION CONTROL SEEDING (SPECIAL)	4,600.0	SY	\$	\$
10	TEMPORARY MULCH METHOD 3A (SPECIAL)	4,600.0	SY	\$	\$
11	INLET FILTERS	36.0	EA	\$	\$
12	AGGREGATE SUBGRADE IMPROVEMENT	620.0	CY	\$	\$
13	AGGREGATE BASE COURSE, TYPE B VARIES (SPECIAL)	2,480.0	TN	\$	\$
14	PREPARATION OF BASE	17,530.0	SY	\$	\$
15	HOT-MIX ASPHALT BINDER COURSE (SPECIAL)	2,728.0	TN	\$	\$
16	HOT-MIX ASPHALT SURFACE COURSE (SPECIAL)	2,182.0	TN	\$	\$
17	BITUMINOUS MATERIALS (TACK COAT)	8,200.0	LB	\$	\$
18	CLASS D PATCHES, TYPE III, 5 INCH (SPECIAL)	35.0	SY	\$	\$
19	WELDED WIRE REINFORCEMENT	1,380.0	SY	\$	\$
20	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	610.0	SY	\$	\$
21	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	6,930.0	SF	\$	\$
22	DETECTABLE WARNINGS (FURNISHED BY OTHERS) (SPECIAL)	22.0	SF	\$	\$
23	PAVEMENT REMOVAL (SPECIAL)	17,530.0	SY	\$	\$
24	DRIVEWAY PAVEMENT REMOVAL (SPECIAL)	590.0	SY	\$	\$
25	COMBINATION CURB AND GUTTER REMOVAL	2,770.0	FT	\$	\$
26	SIDEWALK REMOVAL	7,222.0	SF	\$	\$
27	WATER MAIN 8" (FURNISHED BY OTHERS) (SPECIAL)	6,445.0	FT	\$	\$
28	WATER VALVES 8" (FURNISHED BY OTHERS) (SPECIAL)	11.0	EA	\$	\$
29	FIRE HYDRANTS TO BE REMOVED (SPECIAL)	15.0	EA	\$	\$
30	FIRE HYDRANT EXTENSION (SPECIAL)	2.0	FT	\$	\$
31	FIRE HYDRANT ASSEMBLY, COMPLETE (FURNISHED BY OTHERS) (SPECIAL)	17.0	EA	\$	\$
32	PIPE UNDERDRAINS, 4" (SPECIAL)	2,700.0	FT	\$	\$
33	VALVE VAULT, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	7.0	EA	\$	\$
34	VALVE VAULT, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	4.0	EA	\$	\$
35	REMOVING CATCH BASINS	5.0		\$	\$
36	REMOVING MANHOLES	3.0	EA	\$	\$
37	REMOVING INLETS	19.0	EA	\$	\$
38	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED) (SPECIAL)	2,770.0	FT	\$	\$
39	MOBILIZATION	1.0	LS	\$	\$
40	CONNECT INTO EXISTING DRAINAGE STRUCTURE (SPECIAL)	2.0		\$	\$
41	STORM SEWER CONNECTION (SPECIAL)	17.0	EA	\$	\$
42	SANITARY SEWER CONNECTION (SPECIAL)	14.0		\$	\$

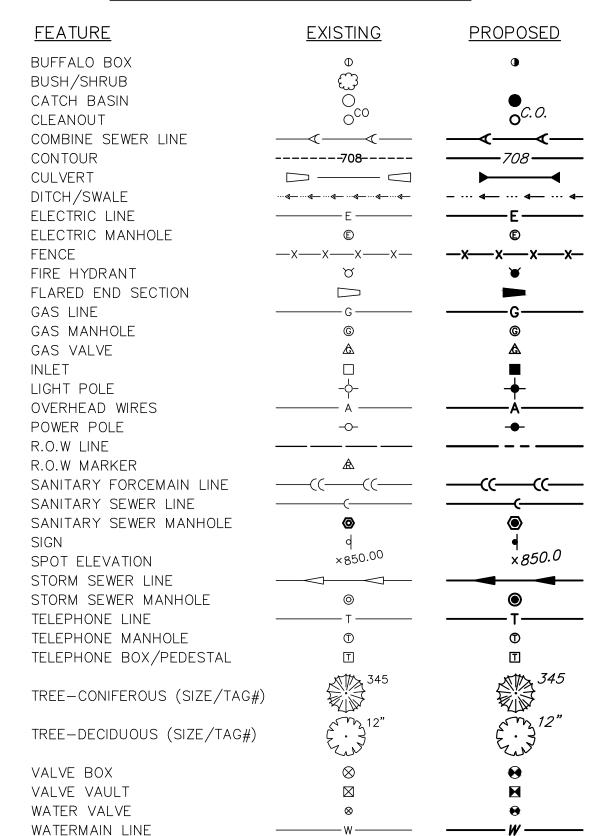
ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	VALUE
43	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	5.0	EA	\$	\$
44	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE	1.0	EA	\$	\$
45	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	3.0	EA	\$	\$
46	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	1.0	EA	\$	\$
47	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	18.0	EA	\$	\$
48	VALVE VAULTS TO BE ABANDONED	1.0	EA	\$	\$
49	VALVE BOXES TO BE REMOVED	2.0	EA	\$	\$
50	VALVE VAULTS TO BE REMOVED	16.0	EA	\$	\$
51	WATER VALVES TO BE REMOVED	16.0	EA	\$	\$
52	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	1.0	LS	\$	\$
53	CUT AND CAP EXISTING WATER MAIN	1.0	EA	\$	\$
54	CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) - 8" (SPECIAL)	5.0	EA	\$	\$
55	PRESSURE CONNECTION 8" x 8"	1.0	EA	\$	\$
56	WATER MAIN REMOVAL, 8"	70.0	FT	\$	\$
57	DRAINAGE STRUCTURES TO BE ADJUSTED	2.0	EA	\$	\$
58	DRAINAGE STRUCTURES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID (SPECIAL)	8.0	EA	\$	\$
59	FRAMES AND LIDS, TYPE 1, CLOSED LID (SANITARY) (SPECIAL)	23.0	EA	\$	\$
60	FRAMES AND LIDS, TYPE 1, CLOSED LID (STORM) (SPECIAL)	4.0	EA	\$	\$
61	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID (SPEC	3.0	EA	\$	\$
62	SANITARY SEWERS, WATER MAIN QUALITY PIPE, 6"	135.0	FT	\$	\$
63	SANITARY SEWERS, WATER MAIN QUALITY PIPE, 8"	70.0	FT	\$	\$
64	SANITARY SEWERS, WATER MAIN QUALITY PIPE, 10"	35.0	FT	\$	\$
65	STORM SEWERS, RUBBER GASKET, CLASS A, TY 1, 12"	20.0	FT	\$	\$
66	STORM SEWERS, RUBBER GASKET, CLASS A, TY 1, 15"	20.0	FT	\$	\$
67	STORM SEWERS, RUBBER GASKET, CLASS A, TY 1, 18"	20.0	FT	\$	\$
68	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 6"	100.0	FT	\$	\$
69	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 10"	390.0	FT	\$	\$
70	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	265.0	FT	\$	\$
71	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 15"	45.0	FT	\$	\$
72	EXPLORATION EXCAVATION (SPECIAL)	8.0	EA	\$	\$
73	ADJUSTING SANITARY/STORM SERVICES, 8-INCH DIAMETER OR LESS (SPECIAL)	80.0	FT	\$	\$
74	STORM SEWER TO BE REMOVED, 18-INCH DIAMETER OR LESS (SPECIAL)	800.0	FT	\$	\$
75	SANITARY SEWER TO BE REMOVED, 18-INCH DIAMETER OR LESS (SPECIAL)	240.0	FT	\$	\$
76	BUFFALO BOX FRAME & LID (SPECIAL)	12.0	EA	\$	\$
77	WATER SERVICE, TYPE K COPPER, 1" (SPECIAL)	1,670.0	FT	\$	\$
78	WATER SERVICE, TYPE K COPPER, 1", TRENCHLESS METHOD (SPECIAL)	2,895.0	FT	\$	\$
79	WATER SERVICE, CONNECT EXISTING, COMPLETE (SPECIAL)	141.0	EA	\$	\$
80	WATER SERVICE, TAP, 1" COMPLETE (SPECIAL)	141.0	EA	\$	\$
81	ABANDON EXISTING WATER MAIN (SPECIAL)	130.0	CY	\$	\$
82	TEMPORARY PAVEMENT	20.0	TN	\$	\$
83	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	24.0	SY	\$	\$
84	REMOVE AND RELOCATE EXISTING SIGN	13.0	EA	\$	\$

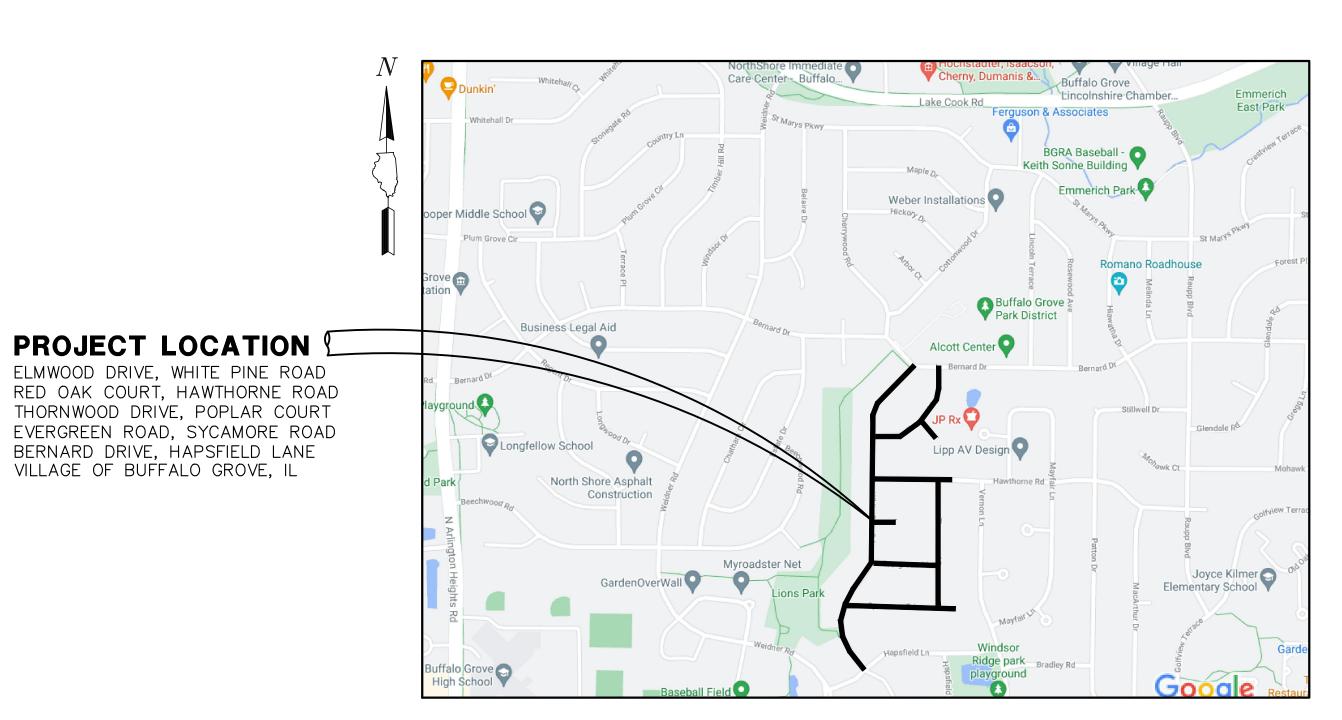
<b>PROPOSAI</b>	L OF UNI	T PRICE BID	TOTAL: \$	
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# Written Amount for Proposal of Unit Price Bid Total:

# 2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE BUFFALO GROVE, ILLINOIS 60089

### STANDARD SYMBOLS





LOCATION MAP (Not to Scale)

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.

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

J.U.L.I.E JOINT UTILITY LOCATION **INFORMATION FOR EXCAVATION** Know what's **below**. **CALL 811** Call before you dig.

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- 6. WHITE PINE RD STA. 7+00 16+50
- 7. WHITE PINE RD STA. 16+50 BERNARD DR
- 8. ELMWOOD DR STA. 13+00 BERNARD DR
- 9. ELMWOOD DR STA. 10+80 13+00 & POPLAR CT
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### PLANS PREPARED FOR

VILLAGE OF BUFFALO GROVE 50 RAUPP BOULEVARD BUFFALO GROVE, ILLINOIS 60089 TELEPHONE: 847-459-2500

### **TOPOGRAPHIC SURVEY BY:**

GEWALT HAMILTON ASSOCIATES, INC. 625 FOREST EDGE DRIVE VERNON HILLS, ILLINOIS 60061 TELEPHONE: 847-478-9700

### COORDINATING/PERMITTING AGENCIES:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY PUBLIC WATER SUPPLY ILLINOIS ENVIRONMENTAL PROTECTION AGENCY WATER POLLUTION CONTROL VILLAGE OF BUFFALO GROVE (ENGINEERING DEPARTMENT)

217-782-1724 217-782-3397 847-459-2523

P.E. SIGNED: PETER C. LIND DATE: ILLINOIS LICENSE NO.: 062-072045

EXPIRATION DATE: NOVEMBER 30, 2023

**FILE:** 4798.072-DT.dwg

**DATE:** 11.02.2023

**CHECKED BY:** PCL

**DATE:** 11.02.2023

## ISSUED FOR PERMIT

ASSOCIATES, INC. 625 Forest Edge Drive Vernon Hills, IL. 60061

TEL 847.478.9700 FAX 847.478.9701

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TITLE SHEET

2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE **BUFFALO GROVE, ILLINOIS 60089** 

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION
1	SHY	11.10.2023	ADDENDUM 01				

SHEET NUMBER: DRAWN BY: KRM GHA PROJECT # 4798.072 SCALE: of 19 sheets N.T.S.

#### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE ILLINOIS PLUMBING CODE, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY 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
- 4. 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 8. ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING. 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 HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED.
- 5. ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- 7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- 8. IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE 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 OWN 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 LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

#### 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 BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO 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 SHALL BE MADE WITH WYE BRANCHES. WYE BRANCHES SHALL BE FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TEE BRANCHES ARE NOT ALLOWED.
- ALL CONNECTIONS 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/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 ENGINEER IN THE FIELD.
- 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.
- 10. 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.

### PROJECT SPECIFIC NOTES

- 1. ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITIES CODE AS WELL AS THE STANDARD SPECIFICATIONS.
- 2. 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
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.
- 4. ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
- 5. 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.
- 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.
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- 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.
- 10. 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL 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 9. ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED 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.
- 11. 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 11. PUMPS MAY BE USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED NEW CONCRETE.
- 12. ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
- 13. ALL PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698).
- 14. SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.
- 15. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE VILLAGE ENGINEER OR AUTHORIZED VILLAGE REPRESENTATIVE.

#### VILLAGE OF BUFFALO GROVE NOTES

- 1. FRAMES, LIDS, GRATES, VALVES, FIRE HYDRANTS, ETC. 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 THE VILLAGE'S SELECTED SITE. ANY DAMAGE TO THE SALVAGED ITEMS DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 2. 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.
- 3. ANY EARTH EXCAVATION DONE WITH REMOVAL OR FRAMING OF DRIVEWAY OR SIDEWALK IS INCIDENTAL TO THAT ITEM.
- 4. ANY STREET LIGHT POLE BRACING REQUIRED SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- 5. 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.
- 6. 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 BE APPROVED BY THE ENGINEER.
- 7. 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.

#### **EROSION CONTROL NOTES**

- 1. AT A MINIMUM, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S URBAN MANUAL.
- . 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.
- 3. 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 OF MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.
- 4. ALL STORM WATER STRUCTURES WITH OPEN LIDS SHALL BE PROTECTED WITH INLET FILTER BASKETS. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED AS NEEDED, AND BASKETS SHALL BE REPAIRED OR REPLACED AS NEEDED.
- 5. AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED, AND THE DRAINAGE STRUCTURES SHALL BE CLEANED.
- 6. THE CONTRACTOR SHALL KEEP A WATER SOURCE AT THEIR DISPOSAL FOR THE PURPOSE OF WATERING DOWN SOIL ON SITE AND ADJACENT ROADWAYS WHICH OTHERWISE MAY BECOME
- 7. THE CONTRACTOR SHALL STABILIZE ALL IDLE, DISTURBED AREAS WITHIN SEVEN DAYS OF CESSATION OF THE CONSTRUCTION ACTIVITIES IN THAT AREA.
- 8. THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.
- THROUGHOUT THE LIFE OF THE PROJECT.
- 10. 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 AS TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO THE DOWNSTREAM OUTLET OF THE PROJECT AREA.
- 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.
- 12. CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.
- 13. 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.
- 14. WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

#### VILLAGE OF BUFFALO GROVE WATER MAIN NOTES

- 1. 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.
- 2. 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 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.
- 4. 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.
- 5. 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.
- 6. 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.

#### **DEMOLITION NOTES:**

- RESIDENT ACCESS MUST BE MAINTAINED THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS FOR RESIDENT ACCESS AND STAGING.
- BRICK PAVERS WITHIN THE VILLAGE RIGHT OF WAY THAT ARE DISTURBED AS PART OF THIS PROJECT SHALL BE REMOVED AND NEATLY STACKED ADJACENT TO THE DRIVEWAY THEY WERE REMOVED FROM.
- THE CONTRACTOR SHALL CAREFULLY REMOVE ALL FIRE HYDRANTS, HYDRANT AUXILIARY, B-BOXES AND VALVES. ALL VALVES, B-BOXES AND HYDRANTS REMOVED FROM THIS PROJECT SHALL BE DELIVERED TO THE BUFFALO GROVE PUBLIC WORKS YARD AT 51 RAUPP BLVD OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES TO REMAIN. ANY DAMAGED STRUCTURES DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER A MINIMUM OF 48 HOURS AHEAD OF TIME FOR OPERATION OF ANY EXISTING VALVE OR HYDRANT BY THE VILLAGE. AT NO TIME SHALL THE CONTRACTOR OPERATE ANY EXISTING VALVES OR HYDRANTS. NON COMPLIANCE WITH THIS REQUIREMENT WILL RESULT IN A \$500 FINE PER OCCURENCE AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE ALL SAWCUT SLURRY PROMPTLY TO PREVENT TRACKING ONTOP SURFACES TO REMAIN. ANY SLURRY TRACKED OR LEFT ON SURFACES TO REMAIN SHALL BE THOROUGHLY CLEANED OR REPLACED BY THE
- CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE VILLAGE.

#### **IMPROVEMENTS NOTES:**

- ANY SIDEWALKS, CURB RAMPS, DEPRESSED CURBS, DETECTABLE WARNINGS, CROSSWALKS OR OTHER ACCESSIBLE ROUTES INSTALLED THAT DOES NOT MEET THE ADA CODE SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. THE COST OF COMPLYING WITH THIS REQUIREMENT IS CONSIDERED INCLUDED IN THE CONTRACT.
- ALL RESIDENTIAL DRIVEWAYS SHALL BE POURED NO LATER THAN THE DAY AFTER THE CURB IS INSTALLED. REFER TO THE SPECIAL PROVISIONS FOR FURTHER REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE CARE DURING CONSTRUCTION TO LIMIT THE DISTURBANCE FOR THE PROJECT. ALL DISTURBED AREAS SHALL BE RESTORED WITH VARIABLE DEPTH TOPSOIL, IDOT CLASS 1A SEED AND MULCH METHOD 3A. AREAS DISTURBED BY THE CONTRACTORS NEGLIGENCE SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE VILLAGE.
- AT THE DIRECTION OF THE ENGINEER AND AS MARKED IN THE FIELD, ADDITIONAL PARKWAY GRADING MAY BE REQUIRED TO RE-ESTABLISH POSITIVE SITE DRAINAGE.
- ALL MAILBOXES DISTURBED AS PART OF THIS PROJECT SHALL BE RESET AT THE CONCLUSION OF THE DAY TO THE SATISFACTION OF THE ENGINEER & RESIDENT. THIS WORK IS CONSIDERED INCLUDED IN THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING LOCKING GASKETS FOR ALL JOINTS WITHIN THE BELOW TABLE FROM ALL BENDS. THE COST OF THE LOCKING GASKETS AND THRUST BLOCKS SHALL BE INCLUDED IN THE COST OF THE WATER MAIN.
- 45 DEGREE HORIZONTAL BEND 15' 22.5 DEGREE HORIZONTAL BEND - 10' 45 DEGREE VERTICAL OFFSET - 25' TEES — PROVIDE THRUST BLOCK PRESSURE CONNECTIONS - PROVIDE THRUST BLOCK

END CAPS - PROVIDE THRUST BLOCK

BARS FOR RE-USE.

- THE USE OF 90 DEGREE BENDS IS NOT ALLOWED UNLESS PRIOR WRITTEN APPROVAL IS GIVEN BY THE ENGINEER.
- ALL VALVES TO BE ABANDONED IN PLACE SHALL HAVE THE VALVE CLOSED. HAVE THE OPERATING NUT REMOVED AND A PLATE PROVIDED BY THE VILLAGE INSTALLED ON-TOP OF THE CLOSED VALVE IN LIEU OF THE OPERATING NUT.
- ALL WATER MAIN CAPS ON THE EXISTING MAIN SHALL BE INSTALLED REGARDLESS OF THE COMPLETE SHUTDOWN CAPABILITY OF THE EXISTING VALVE. - ALL SERVICE TAPS MUST BE A MINIMUM OF 2' FROM ANY FITTINGS, BELLS, OR
- SERVICE TAPS. - FOR ALL CURB AND GUTTER REMOVAL AND REPLACEMENT THE CONTRACTOR SHALL REMOVE THE EXISTING CURB IN A MANNER TO SALVAGE THE EXISTING TIE

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**DATE:** 11.02.2023

**CHECKED BY:** PCL

**DATE:** 11.02.2023

DRAWN BY: KRM GHA PROJECT #

4798.072

N.T.S.

SCALE:

-ANY DAMAGED TIE BARS SHALL BE REPLACED PER ARTICLE 420.05 (B)

GEWALT HAMILION ASSOCIATES, INC. 625 Forest Edge Drive Vernon Hills, IL. 60061

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**GENERAL NOTES** 

2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE **BUFFALO GROVE, ILLINOIS 60089** 

SHY 11.10.2023 ADDENDUM 01 NO. BY DATE **REVISION** NO. BY DATE **REVISION** 

SHEET NUMBER:

OF 19 SHEETS

#### **SUMMARY OF QUANTITIES - BASE BID** White Pine - Hapsfield White Pine Sta. 7+00 to White Pine Sta. 16+50 to Elmwood Sta. 13+00 to Elmwood Sta. 10+80 to Hawthorne Rd and SP | ITEM NO | DESCRIPTION UNIT QUANTITY Ln to Sta. 7+00 Sta. 16+50 Bernard Drive Sta. 13+00 and Poplar Ct Sycamore Rd Bernard Dr TREE TRUNK PROTECTION 192.0 25.0 27.0 20.0 37.0 2 TREE ROOT PRUNING EA 21.0 17.0 15.0 23.0 16.0 19.0 3 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL CY 620.0 70.0 60.0 110.0 90.0 40.0 90.0 80.0 80.0 CY 3,700.0 4 TRENCH BACKFILL, COARSE AGGREGATE, CA-11 (SPECIAL) 600.0 500.0 425.0 225.0 500.0 5 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SY 620.0 110.0 70.0 80.0 90.0 40.0 90.0 80.0 6 GENERAL LANDSCAPE RESTORATION (SPECIAL) SY 4,600.0 600.0 800.0 600.0 500.0 300.0 600.0 600.0 600.0 EA 4.0 7 MOWING (SPECIAL) 0.5 0.5 0.5 0.5 8 SUPPLEMENTAL WATERING UN 16.0 2.0 3.0 2.0 1.0 SY 4,600.0 9 | TEMPORARY EROSION CONTROL SEEDING (SPECIAL) 800.0 600.0 500.0 300.0 600.0 600.0 10 | TEMPORARY MULCH METHOD 3A (SPECIAL) SY 4,600.0 800.0 600.0 500.0 300.0 600.0 600.0 600.0 600.0 11 INLET FILTERS 36.0 10.0 110 4.0 4.0 CY 12 AGGREGAT E SUBGRADE IMPROVEMENT 620.0 60.0 110.0 90.0 70 N 90.0 80.0 TN 2,480.0 13 AGGREGAT E BASE COURSE, TYPE B VARIES (SPECIAL) 320.0 500.0 330.0 250.0 120.0 320.0 320.0 320.0 SY | 17,530.0 14 PREPARATION OF BASE 1,745.0 3,135.0 2,440.0 2,050.0 1,100.0 2,570.0 2,310.0 2,180.0 15 HOT-MIX ASPHALT BINDER COURSE (SPECIAL) TN 2,728.0 272.0 319.0 171.0 359.0 339.0 488.0 380.0 400.0 16 HOT-MIX ASPHALT SURFACE COURSE (SPECIAL) TN 2,182.0 217.0 390.0 304.0 255.0 137.0 320.0 288.0 271.0 17 BIT UMINOUS MAT ERIALS (TACK COAT) LB 8,200.0 1,500.0 1,100.0 1,000.0 500.0 1,200.0 1,000.0 18 CLASS D PATCHES, TYPE III, 5 INCH (SPECIAL) SY 35.0 19 WELDED WIRE REINFORCEMENT SY 1,380.0 210.0 146.7 220.0 171.1 101.1 171.1 135.6 224.4 20 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH 90.0 20.0 120.0 90.0 60.0 50.0 50.0 130.0 21 PORT LAND CEMENT CONCRETE SIDEWALK 5 INCH SF 6,930.0 1,080.0 1,140.0 370.0 900.0 730.0 1.090.0 770.0 850.0 SF 22.0 22 DETECTABLE WARNINGS (FURNISHED BY OTHERS) (SPECIAL) SY | 17,530.0 23 PAVEMENT REMOVAL (SPECIAL) 1,745.0 3,135.0 2,440.0 2,050.0 1,100.0 2,570.0 2,310.0 2,180.0 24 DRIVEWAY PAVEMENT REMOVAL (SPECIAL) SY 590.0 90.0 120.0 90.0 60.0 50.0 50.0 130.0 FT 2,770.0 25 COMBINATION CURB AND GUTTER REMOVAL 400.0 120.0 310.0 660.0 360.0 300.0 290.0 330.0 SF 7,222.0 26 SIDEWALK REMOVAL 1,295.0 1,325.0 968.0 810.0 370.0 1,174.0 870.0 410.0 27 WAT ER MAIN 8" (FURNISHED BY OT HERS) (SPECIAL) 6,445.0 680.0 830.0 870.0 345.0 28 WATER VALVES 8" (FURNISHED BY OTHERS) (SPECIAL) EA 11.0 1.0 29 FIRE HYDRANTS TO BE REMOVED (SPECIAL) EA 15.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 1.0 FT 2.0 30 FIRE HYDRANT EXTENSION (SPECIAL) 31 | FIRE HYDRANT ASSEMBLY, COMPLETE (FURNISHED BY OTHERS) (SPECIAL) EA 17.0 3.0 2.0 FT 2,700.0 32 PIPE UNDERDRAINS, 4" (SPECIAL) 700.0 900.0 200.0 400.0 500.0 33 VALVE VAULT, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID EA 7.0 1.0 1.0 34 VALVE VAULT, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID EA 4.0 1.0 1.0 1.0 1.0 EA 5.0 35 REMOVING CATCH BASINS 3.0 1.0 36 | REMOVING MANHOLES EA 3.0 37 REMOVING INLETS EA 19.0 3.0 6.0 38 COMBINATION CONCRETE CURB AND GUTTER, TYPE M (MODIFIED) (SPECIAL) FT 2,770.0 400.0 660.0 360.0 300.0 310.0 330.0 120.0 290.0 LS 1.0 39 MOBILIZATION EA 2.0 40 CONNECT INTO EXISTING DRAINAGE STRUCTURE (SPECIAL) 41 STORM SEWER CONNECTION (SPECIAL) EA 17.0 6.0 2.0 4.0 42 SANIT ARY SEWER CONNECTION (SPECIAL) EA 14.0 2.0 8.0 2.0 43 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE EA 5.0 44 CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE EA 1.0 1.0 EA 3.0 45 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE 2.0 1.0 46 MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID EA 1.0 47 INLETS, TYPE A, TYPE 11 FRAME AND GRATE EA 18.0 3.0 5.0 1.0 4.0 5.0 48 VALVE VAULTS TO BE ABANDONED EA 1.0 49 VALVE BOXES TO BE REMOVED EA 2.0 50 VALVE VAULTS TO BE REMOVED EA 16.0 51 WATER VALVES TO BE REMOVED EA 16.0 52 TRAFFIC CONTROL AND PROTECTION (SPECIAL) LS 1.0 53 CUT AND CAP EXISTING WATER MAIN EA 1.0 54 | CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) - 8" (SPECIAL) EA 5.0 2.0 55 PRESSURE CONNECTION 8" x 8" 56 WATER MAIN REMOVAL, 8" FT 70.0 5.0 37.0 28.0 EA 2.0 57 DRAINAGE STRUCTURES TO BE ADJUSTED 58 | DRAINAGE STRUCTURES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID (SPEC) EA 59 FRAMES AND LIDS, TYPE 1, CLOSED LID (SANITARY) (SPECIAL) EA 23.0 5.0 3.0 60 FRAMES AND LIDS, TYPE 1, CLOSED LID (STORM) (SPECIAL) 4.0 1.0 1.0 61 SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID (\$ EA | 62 SANIT ARY SEWERS, WAT ER MAIN QUALITY PIPE, 6" 135.0 35.0 65.0 35.0 70.0 63 SANIT ARY SEWERS, WAT ER MAIN QUALITY PIPE, 8" 35.0 64 SANIT ARY SEWERS, WAT ER MAIN QUALITY PIPE, 10" FT 35.0 35.0 65 ST ORM SEWERS, RUBBER GASKET, CLASS A, TY 1, 12" 20.0 20.0 FT 66 STORM SEWERS, RUBBER GASKET, CLASS A, TY 1, 15" 20.0 67 STORM SEWERS, RUBBER GASKET, CLASS A, TY 1, 18" 20.0 20.0 68 STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 6" 100.0 65.0 35.0 69 STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 10" 110.0 40.0 115.0 70 STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12" 265.0 135.0 75.0 30.0 25.0 FT 71 STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 15" 45.0 72 EXPLORATION EXCAVATION (SPECIAL) EA 8.0 73 ADJUSTING SANITARY/STORM SERVICES, 8-INCH DIAMETER OR LESS (SPECIAL) 80.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 0.008 74 STORM SEWER TO BE REMOVED, 18-INCH DIAMETER OR LESS (SPECIAL) 210.0 290.0 105.0 115.0 75 SANITARY SEWER TO BE REMOVED, 18-INCH DIAMETER OR LESS (SPECIAL) 240.0 35.0 135.0 35.0 35.0 76 BUFFALO BOX FRAME & LID (SPECIAL) 12.0 77 WAT ER SERVICE, TYPE K COPPER, 1" (SPECIAL) FT 1,670.0 140.0 200.0 280.0 100.0 280.0 300.0 300.0 78 WAT ER SERVICE, TYPE K COPPER, 1", TRENCHLESS METHOD (SPECIAL) 2,895.0 205.0 505.0 560.0 275.0 410.0 310.0 320.0 310.0

#### **SEQUENCING NOTES:**

THE FOLLOWING RECOMMENDED CONSTRUCTION SEQUENCING SHALL SERVE THE PURPOSE ONLY AS A GENERAL OUTLINE FOR THE CONTRACTOR TO USE TO COMPLETE THEIR DETAILED CONSTRUCTION SCHEDULE. ANY AND ALL CHANGES OR REVISIONS SHALL BE APPROVED BY THE ENGINEER BEFORE WORK IS ANTICIPATED TO COMMENCE.

- 1. PLACE TEMPORARY INFORMATION SIGNS SEVEN (7) CALENDAR DAYS PRIOR TO
- CONSTRUCTION COMMENCEMENT ON EACH RESPECTIVE STREET SEGMENT.

  2. FURNISH AND INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE
- PLANS AND AS DIRECTED BY THE ENGINEER.

  3. FURNISH AND INSTALL TREE PROTECTION AND PERFORM TREE ROOT PRUNING AS SHOWN
- ON THE PLANS AND AS MARKED BY THE ENGINEER.

  4. PERFORM SAW CUTTING OPERATIONS OR PULVERIZE THE PAVEMENT IN—PLACE AT
- LOCATIONS WHERE PROPOSED UTILITIES ARE TO BE INSTALLED. SAW CUT SLURRY SHALL BE IMMEDIATELY AND THOROUGHLY CLEANED OFF THE PAVEMENT TO PREVENT TRACKING. 5. INSTALL NEW WATER MAIN AND UTILITY IMPROVEMENTS.
- REMOVE AND REPLACE EXISTING COMBINATION CONCRETE CURB AND GUTTER, PORTLAND CEMENT CONCRETE SIDEWALK, AND DRIVEWAYS AS MARKED BY THE ENGINEER.
- REMOVE EXISTING PAVEMENT, AT THE DEPTH SPECIFIED PER THE TYPICAL SECTIONS.
  PREPARE THE EXISTING AGGREGATE BASE COURSE, AND COMPLETE ANY REQUIRED
- REPAIRS AS DIRECTED BY THE ENGINEER.

  9. PLACE HOT—MIX ASPHALT BINDER COURSE WITHIN SEVEN (7) CALENDAR DAYS FROM THE
- BEGINNING OF PAVEMENT REMOVAL OPERATIONS ON EACH STREET SEGMENT.

  10. REMOVE TEMPORARY EROSION CONTROL MEASURES AND TREE PROTECTION FENCING.
- 11. COMPLETE ALL GENERAL LANDSCAPE RESTORATION.
- 12. PLACE HOT-MIX ASPHALT SURFACE COURSE.
- 13. PERFORM STREET SWEEPING OPERATIONS WITHIN THE PROJECT LIMITS AND ADJACENT ROADWAYS.
- 14. REMOVE TEMPORARY TRAFFIC CONTROL AND PROTECTION MEASURES.

- DAY-ONLY LANE CLOSURES WILL BE PERMITTED; HOWEVER, TWO-WAY TRAFFIC SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARDS.

- WORK SHALL BE SCHEDULED SO THAT IT IS CONTINUOUS ON EACH RESPECTIVE STREET SEGMENT.

#### LITHITY TARIF

C SDR 26 P CL I-IV C SDR 26 RFORATIONS P CL 50 C SDR 26 VED AREAS RB STRUCTURES ECIAL DUAL INLET ECIAL TRIPLE INLET ASS AREAS E EXHIBIT 109 -11 -11 -11 -12 DEL/SPECIFICATION P CL 52 C SDR 26 C C 900 DR25 C C 905 DR25 VED AREAS ASS AREAS ASS AREAS ASS AREAS NCRETE	EJIW 7031 DOUBLE FRAME BOLTE OPEN LID: TYPE 8 CLOSED LID 2" MINIMUM, 6" MAXIMUM  CRUSHED CONCRETE NOT ALLOV	LS) RATE:M1 BACK:T1 7210 GRATE:M3 BACK:N/A ED TOGETHER GRATE:M2 BACK:T1 ED TOGETHER GRATE:M2 BACK:T1 ETYPE 1  VED, ALL STONE MUST BE WASHED  JOINT:ANSI/AWWA A21.11/C-111  JOINT:ANSI/AWWA A21.11/C-111  JOINT:ASTM D-3139 GASKET:ASTM F-47 JOINT:ASTM D-3139 GASKET:ASTM F-47 JOINT:ASTM D-3139 GASKET:ASTM F-47 JOINT:ASTM D-3139 GASKET:ASTM F-47
C SDR 26 RFORATIONS  C CL 50  C SDR 26 VED AREAS RB STRUCTURES  ECIAL DUAL INLET ECIAL TRIPLE INLET ASS AREAS E EXHIBIT 109 -11 -11 -11 -12 -11 -12 -11 -12 -11 -12 -11 -12 -13 -14 -15 -15 -15 -15 -16 -17 -17 -18 -18 -18 -18 -18 -18 -18 -18 -18 -18	PIPE:ASTM D-3034 HOLE PATTERN:ASTM D-2729  PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4 PIPE:ASTM D-2241 FRAME: IDOT TYPE 1 (SEE DETAIL FULL HEAD FRAME: EJIW 7210 GF DEPRESSED CURB FRAME: EJIW EJIW 7031 DOUBLE FRAME BOLTE EJIW 7031 DOUBLE FRAME BOLTE OPEN LID: TYPE 8 CLOSED LID 2" MINIMUM, 6" MAXIMUM  CRUSHED CONCRETE NOT ALLOV  STANDARDS/REQUIREMENTS PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4 PIPE:ANSI/AWWA C104/A21.4 PIPE:ANSI/AWWA C104/A21.4 PIPE:ASTM D-2241 PIPE:AWWA C900 PIPE:AWWA/ASTM C905 CLOSED LID: SEE EXHIBIT 109 OF	JOINT:ANSI/AWWA A21.11/C-111  JOINT:ANSI/AWWA A21.11/C-111  JOINT:ASTM D-3139 GASKET:ASTM F-47 LS)  RATE:M1 BACK:T1 7210 GRATE:M3 BACK:N/A ED TOGETHER GRATE:M2 BACK:T1 ED TOGETHER GRATE:M2 BACK:T1 : TYPE 1  VED, ALL STONE MUST BE WASHED  JOINT:ANSI/AWWA A21.11/C-111  JOINT:ANSI/AWWA A21.11/C-111  JOINT:ASTM D-3139 GASKET:ASTM F-47 JOINT:ASTM D-3139 GASKET:ASTM F-47 JOINT:ASTM D-3139 GASKET:ASTM F-47
REFORATIONS  C CL 50  C SDR 26  VED AREAS RB STRUCTURES  ECIAL DUAL INLET ECIAL TRIPLE INLET ASS AREAS E EXHIBIT 109  -11  -11  -11  -12  C C SDR 26  C C SDR 26  C C 900 DR25  C C 905 DR25  VED AREAS  ASS AREAS	HOLE PATTERN: ASTM D-2729  PIPE: ANSI/AWWA A21.51/C-151 LINING: ANSI/AWWA C104/A21.4  PIPE: ASTM D-2241  FRAME: IDOT TYPE 1 (SEE DETAIL FULL HEAD FRAME: EJIW 7210 GF DEPRESSED CURB FRAME: EJIW EJIW 7031 DOUBLE FRAME BOLT EJIW 7031 DOUBLE FRAME BOLT OPEN LID: TYPE 8 CLOSED LID 2" MINIMUM, 6" MAXIMUM  CRUSHED CONCRETE NOT ALLOV  STANDARDS/REQUIREMENTS PIPE: ANSI/AWWA A21.51/C-151 LINING: ANSI/AWWA A21.51/C-151 LINING: ANSI/AWWA C104/A21.4 PIPE: ASTM D-2241 PIPE: AWWA/ASTM C905 CLOSED LID: SEE EXHIBIT 109 OF	JOINT:ANSI/AWWA A21.11/C-111  JOINT:ASTM D-3139 GASKET:ASTM F-47 LS)  RATE:M1 BACK:T1 7210 GRATE:M3 BACK:N/A ED TOGETHER GRATE:M2 BACK:T1 ED TOGETHER GRATE:M2 BACK:T1 : TYPE 1  VED, ALL STONE MUST BE WASHED  JOINT:ANSI/AWWA A21.11/C-111  JOINT:ANSI/AWWA A21.11/C-111  JOINT:ASTM D-3139 GASKET:ASTM F-47 JOINT:ASTM D-3139 GASKET:ASTM F-47 JOINT:ASTM D-3139 GASKET:ASTM F-47
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C SDR 26 C C900 DR25 C C905 DR25 VED AREAS ASS AREAS	LINING:ANSI/AWWA C104/A21.4 PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4 PIPE:ASTM D-2241 PIPE:AWWA C900 PIPE:AWWA/ASTM C905 CLOSED LID: SEE EXHIBIT 109 OF	JOINT:ANSI/AWWA A21.11/C-111  JOINT:ASTM D-3139 GASKET:ASTM F-47  JOINT:ASTM D-3139 GASKET:ASTM F-47  JOINT:ASTM D-3139 GASKET:ASTM F-47
C SDR 26 C C900 DR25 C C905 DR25 VED AREAS ASS AREAS	PIPE:ANSI/AWWA A21.51/C-151 LINING:ANSI/AWWA C104/A21.4 PIPE:ASTM D-2241 PIPE:AWWA C900 PIPE:AWWA/ASTM C905 CLOSED LID: SEE EXHIBIT 109 OF	JOINT:ASTM D-3139 GASKET:ASTM F-47 JOINT:ASTM D-3139 GASKET:ASTM F-47 JOINT:ASTM D-3139 GASKET:ASTM F-47
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C C905 DR25 VED AREAS ASS AREAS	PIPE:AWWA/ASTM C905 CLOSED LID: SEE EXHIBIT 109 OF	JOINT:ASTM D-3139 GASKET:ASTM F-47
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-11		
IIL BLACK POLY	WRAP:ANSI/AWWA C105/A21.5	INSTALLATION: ASTM A-674 METHOD A
LEAD BRASS	MUELLER H-15154	individual in the initial interpretation of the initial interpretation of the initial interpretation of the initial in
2.1.30	MUELLER H-10302	
LEAD BRASS		1" OR 1.25"
6. PIPE M-94	1	LESS STEEL HARDWARE, TRAFFIC TYPE
TEROUS WB-67-250	PAINTED RED, 250 PSI OPERATIN	•
PE K COPPER	PIPE:ASTM B-88	
DEL/SPECIFICATION	STANDARDS/REQUIREMENTS	
C SDR 26	PIPE:ASTM D-3034	JOINT:ASTM D-3212 AND F-477
C SDR 26	PIPE:ASTM D-2241	JOINT:ASTM D-3139 GASKET:ASTM F-47
VED AREAS	CLOSED LID: SEE EXHIBIT 109 OF	RPLAN
ASS AREAS	CLOSED LID: SEE EXHIBIT 109 OF	R PLAN
E EXHIBIT 109	2" MINIMUM, 6" MAXIMUM	
-11		
-11		
ETEX	ASTM: C-923	
	ASTM: C-923	
C WRAP	ASTM: C-877 TYPE II	
	JBLE STRAP SADDLE JW MEDALLION F2545 PIPE M-94 TEROUS WB-67-250 E K COPPER DEL/SPECIFICATION C SDR 26 C SDR 26 ZED AREAS ASS AREAS E EXHIBIT 109 11 11 ETEX	MUELLER H-15000, AWWA C800, JBLE STRAP SADDLE 1" - DIRECT TAP; 1.25" OR LARGE JW MEDALLION F2545 PIPE M-94 CAPS AND ONE 4.5" PORT, STAIN PAINTED RED, 250 PSI OPERATIN PAINTED RED, 250 PS

TESTING REQUIREMENTS	
WATER MAIN	ALL WATER MAIN SHALL HAVE A PRESSURE AND LEAKAGE TEST PERFORMED IN ACCORDANCE WITH
	SECTION 41-2.14 OF STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS
	ACCEPT THE PRESSURE DURING THE TESTS SHALL BE EQUAL TO 150PSI.
SANITARY SEWER	ALL SANITARY SEWER SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS
	FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. ALL RIGID SANITARY SEWER PIPE SHALL BE
	TESTED BY EITHER METHOD A B OR C AS OUTLINED IN SECTION 31-1.12. ALL FLEXIBLE SANITARY
	SEWER PIPE SHALL BE TESTED BY METHOD D AND EITHER METHOD A B OR C. ALL SANITARY SEWER
	MUST BE TESTED BY METHOD E. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A COPY OF THE
	VIDEO ON A DIGITAL VIDEO DISC. THE VIDEO MUST BE IN COLOR AND PROCEED NO FASTER THAN 1
	FOOT PER SECOND.
SEWER WATER MAIN	ALL SEWERS THAT CROSS OR RUN PARRALEL TO WATER MAINS SUBJECT TO IEPA REQUIREMENTS
CROSSINGS	FOR WATER MAIN QUALITY PIPE MUST BE PRESSURE TESTED ACCORDING TO 41-2.14 OF THE
	STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS
SANITARY MANHOLES	ALL SANITARY MANHOLES SHALL BE TESTED BY EITHER ASTM C-969 OR ASTM C-1244

GEWALT HAMILTON ASSOCIATES, INC.

625 Forest Edge Drive Vernon Hills, IL. 60061

TEL 847.478.9700 FAX 847.478.9701

EA 141.0

EA 141.0

TN 20.0

SY 24.0

EA 13.0

130.0

5.0

79 WATER SERVICE, CONNECT EXISTING, COMPLETE (SPECIAL)

80 WATER SERVICE, TAP, 1" COMPLETE (SPECIAL)

81 ABANDON EXISTING WATER MAIN (SPECIAL)

83 HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"

84 REMOVE AND RELOCATE EXISTING SIGN

82 TEMPORARY PAVEMENT

\* Special Provision Required

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SUMMARY OF QUANTITIES & SEQUENCING

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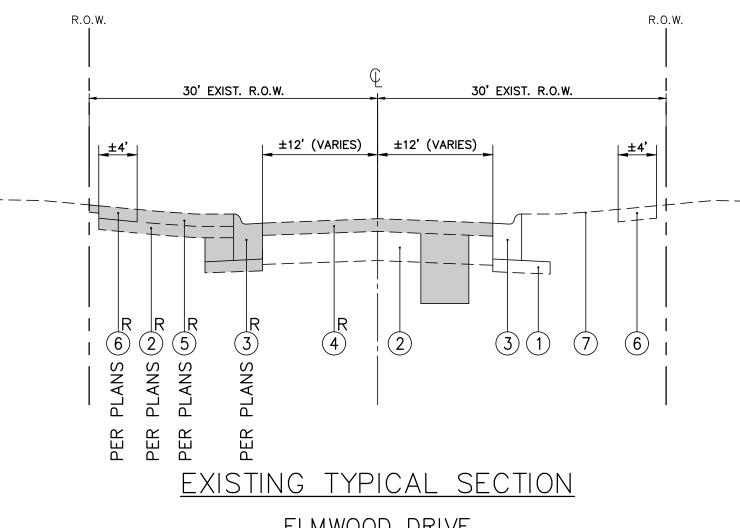
2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE BUFFALO GROVE, ILLINOIS 60089

							<b>FILE:</b> 4798.072-DT.d	wg
							<b>DRAWN BY:</b> KRM <b>DATE:</b> 11.02.2023	
SHY <b>BY</b>	11.10.2023 <b>DATE</b>	ADDENDUM 01  REVISION	NO.	BY	DATE	REVISION	<b>CHECKED BY:</b> PCL <b>DATE:</b> 11.02.2023	
BI	DATE	REVISION	NO.	BI	DATE	REVISION		

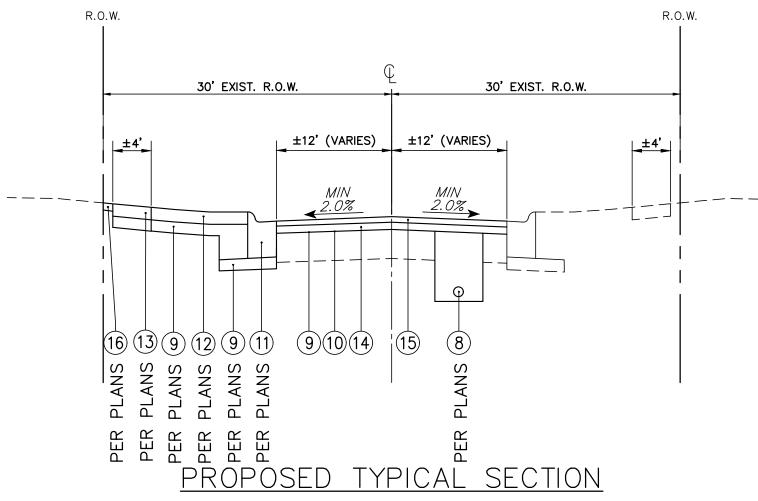
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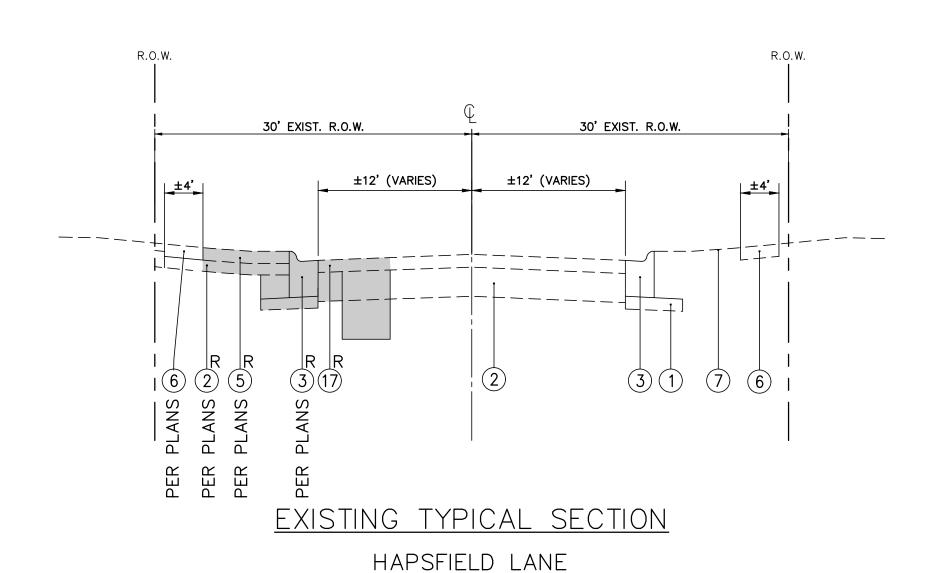
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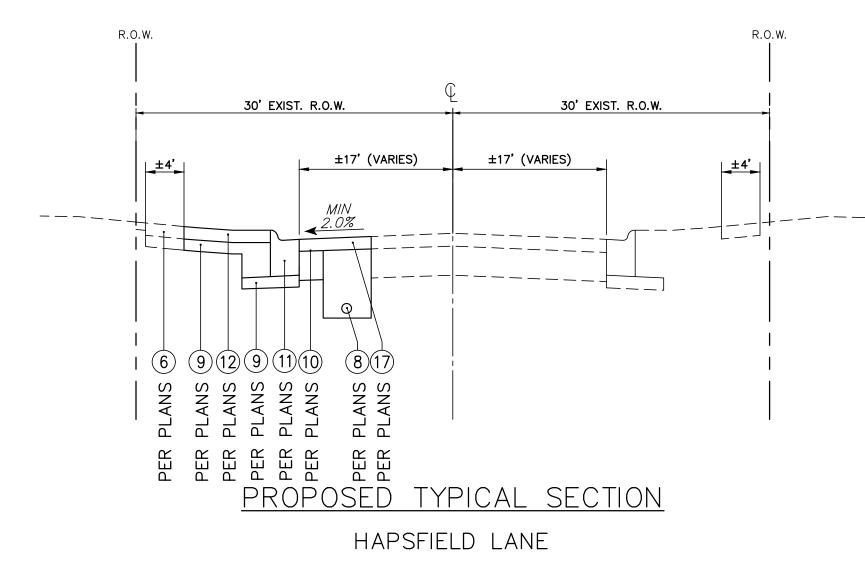


ELMWOOD DRIVE RED OAK COURT WHITE PINE ROAD HAWTHORNE ROAD POPLAR COURT EVERGREEN ROAD SYCAMORE ROAD



ELMWOOD DRIVE RED OAK COURT WHITE PINE ROAD HAWTHORNE ROAD POPLAR COURT EVERGREEN ROAD SYCAMORE ROAD





### LEGEND:

- (1) EXISTING AGGREGATE SUB-BASE
- (2) EXISTING AGGREGATE BASE COURSE, 2.5"-20.75"
- (3) EXISTING COMBINATION CONCRETE CURB & GUTTER
- (4) EXISTING BITUMINOUS PAVEMENT, 2.5"-10.0"
- (5) EXISTING DRIVEWAY
- (6) EXISTING SIDEWALK
- (7) EXISTING GROUND
- (8) PROPOSED DIP CL 52 WATER MAIN (VARIES)
- (9) PROPOSED AGGREGATE BASE COURSE, TYPE B, AS REQUIRED
- (10) PROPOSED PREPARATION OF BASE; AGGREGATE BASE COURSE, TYPE B, VARIES, AS REQUIRED
- (11) PROPOSED COMBINATION CONCRETE CURB AND GUTTER
- (12) PROPOSED P.C.C. DRIVEWAY PAVEMENT, 6"/HMA DRIVEWAY PAVEMENT, 3"
- (13) PROPOSED P.C.C. SIDEWALK, 5" (6" THRU DRIVEWAYS)
- (14) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5"
- (15) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"
- (16) PROPOSED RESTORATION: VARIABLE DEPTH TOPSOIL, SEEDING 1A, MULCH METHOD 3A
- (17) PROPOSED CLASS D PATCH, 5" (FINISHED)
- TITEM TO BE REMOVED/RECYCLED

#### NOTE:

PROPOSED PCC SIDEWALK THRU DRIVEWAY LOCATIONS SHALL BE 6" AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQ.FT. FOR PCC SIDEWALK 5".

HOT-MIX ASPHALT MIXTURE REQUIREMENTS						
MIXTURE TYPE	AIR VOIDS @ Ndes					
RECONSTRUCTION						
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"	3.5% @ 50 GYR					
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5"	3.5% @ 50 GYR					

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ.YD./IN.

THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

GHA	GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge TEL 847.478.	Drive Vernon Hills, IL. 60061 .9700 Fax 847.478.9701

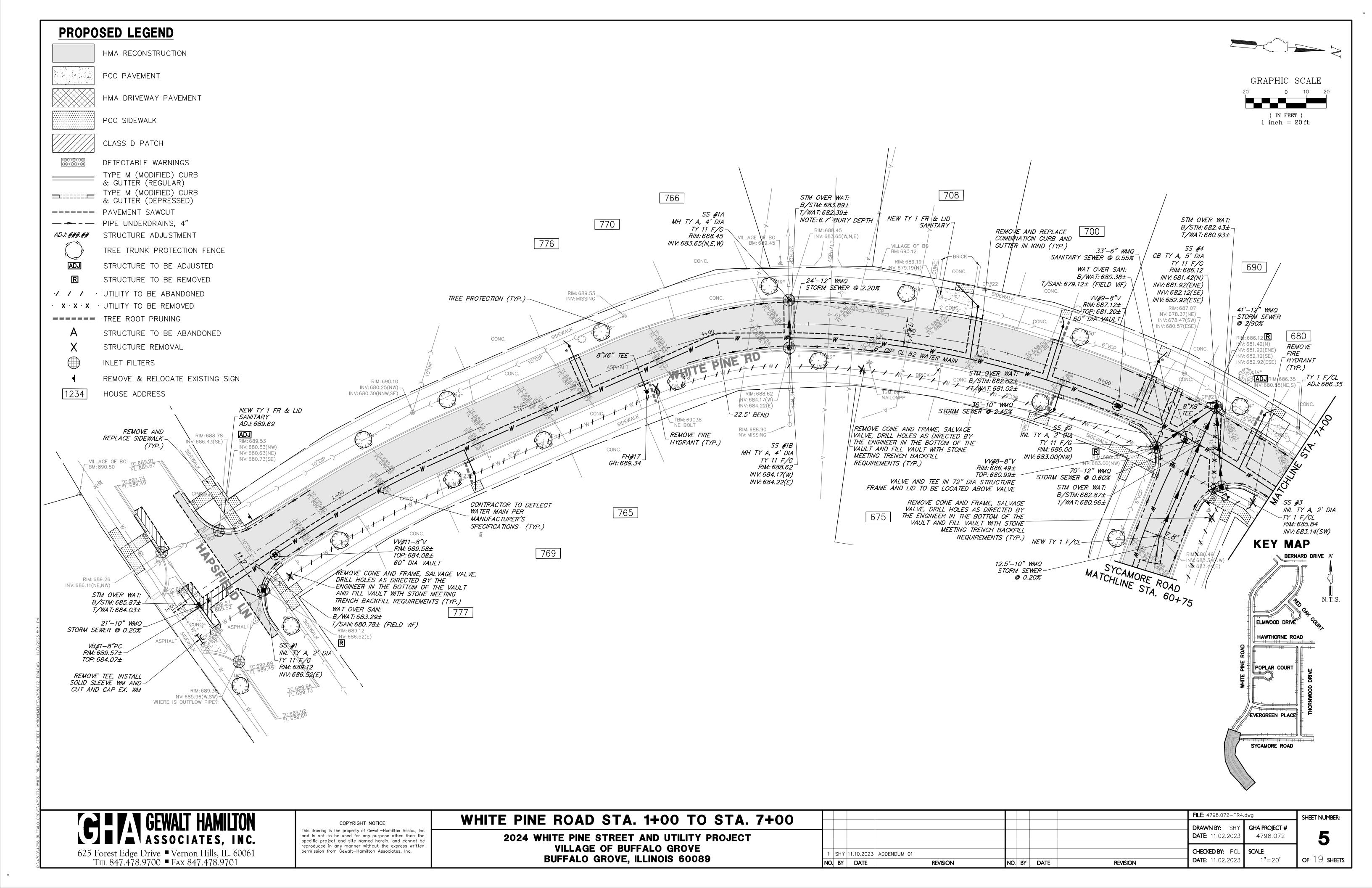
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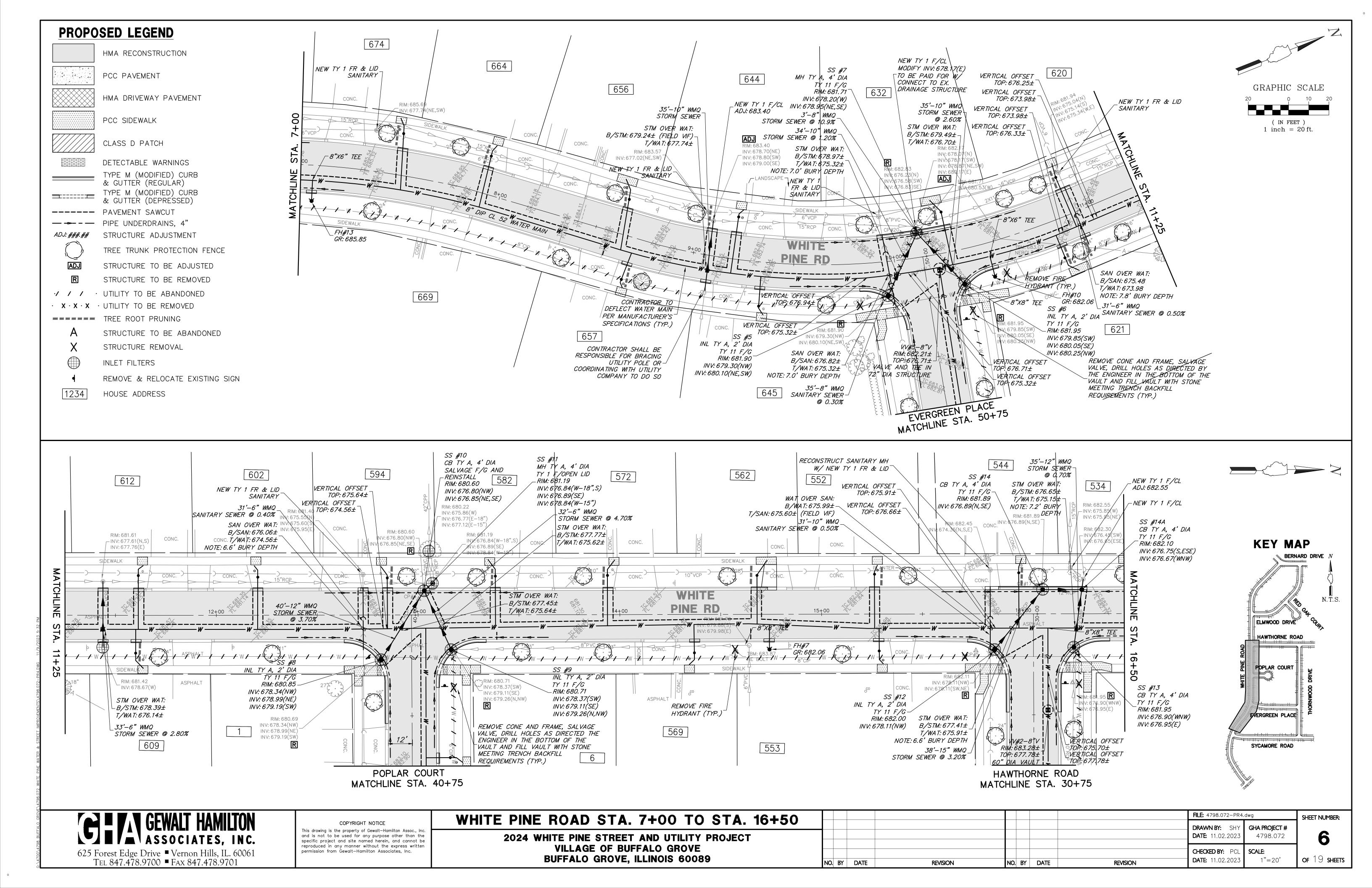
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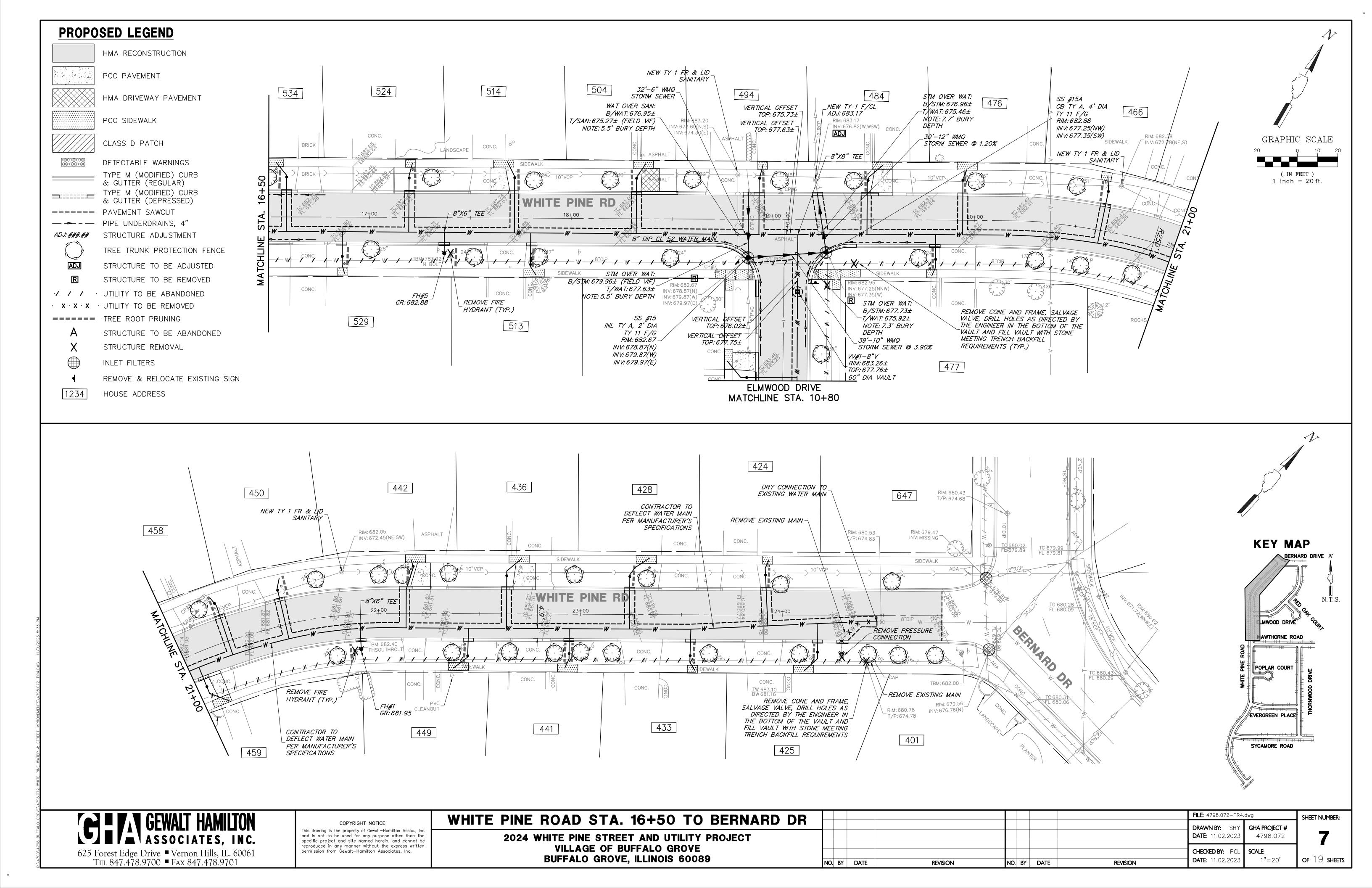
2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE **BUFFALO GROVE, ILLINOIS 60089** 

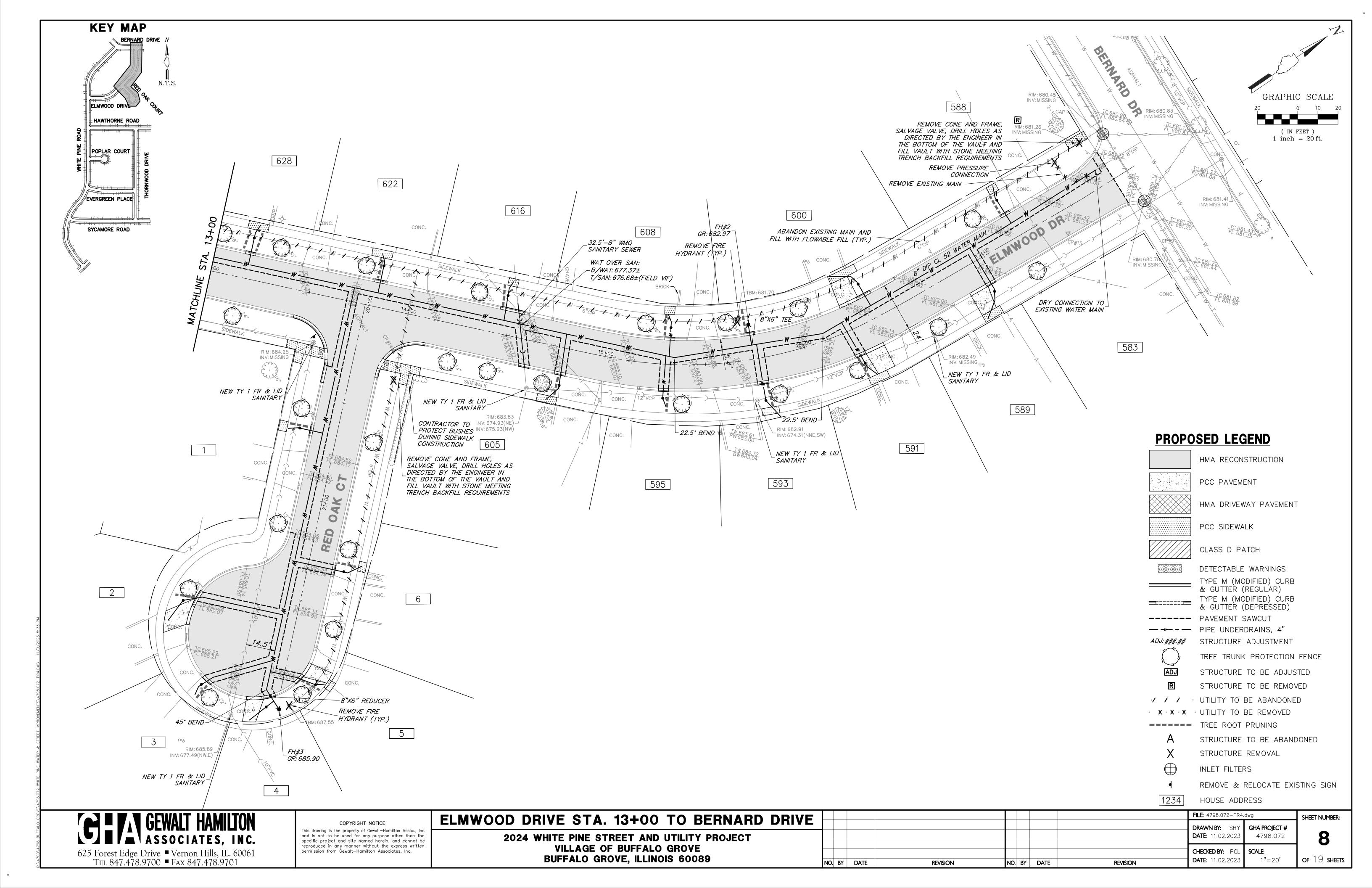
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								<b>DATE:</b> 11.02.2023	
1	SHY	11.10.2023	ADDENDUM 01					CHECKED BY: PCL	
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION	<b>DATE:</b> 11.02.2023	N.T.S.

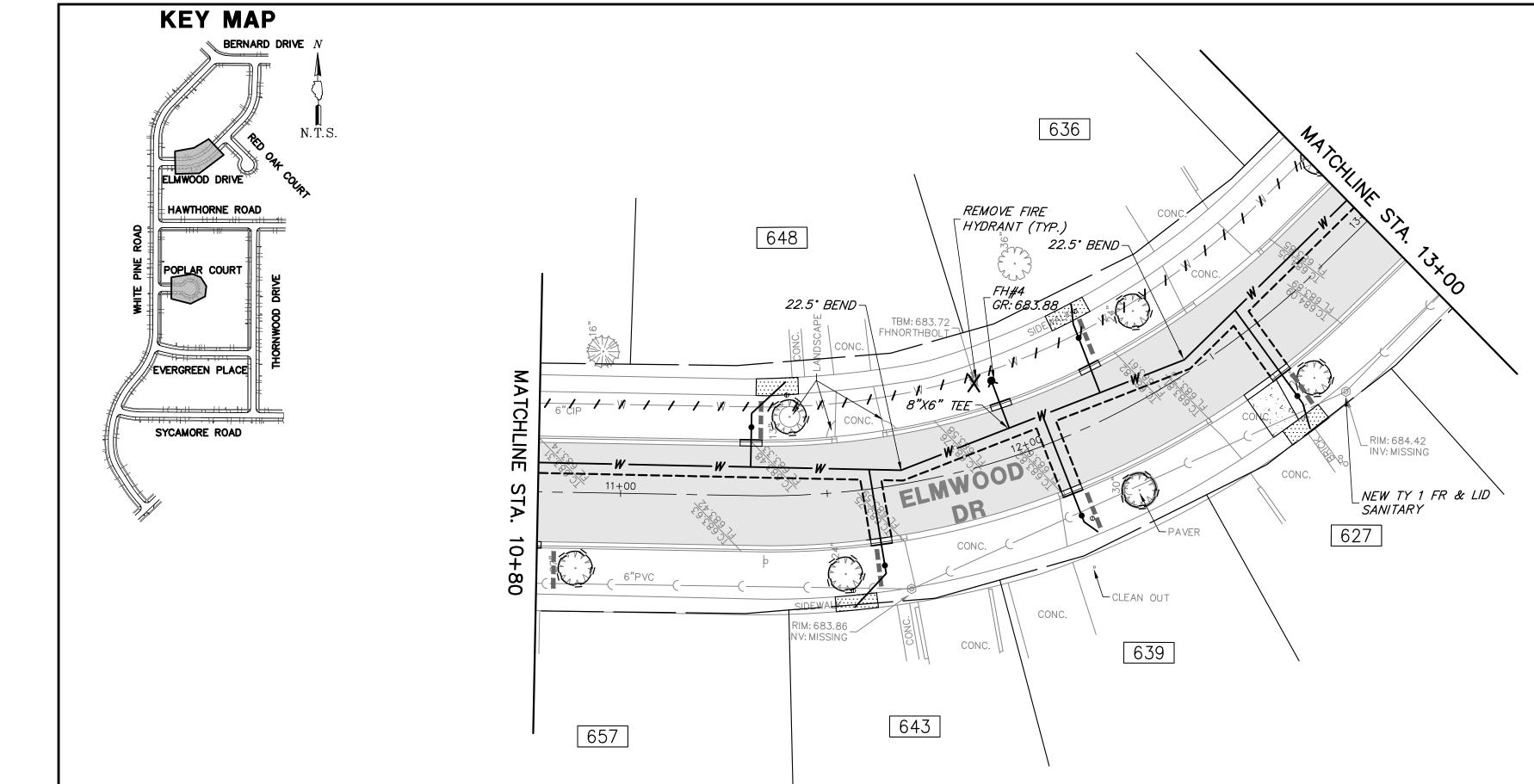
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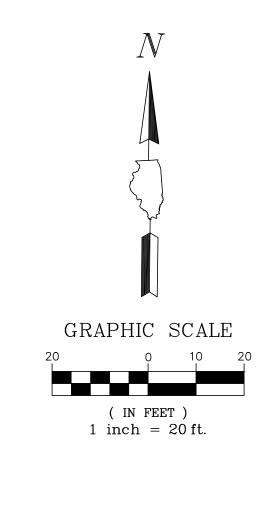


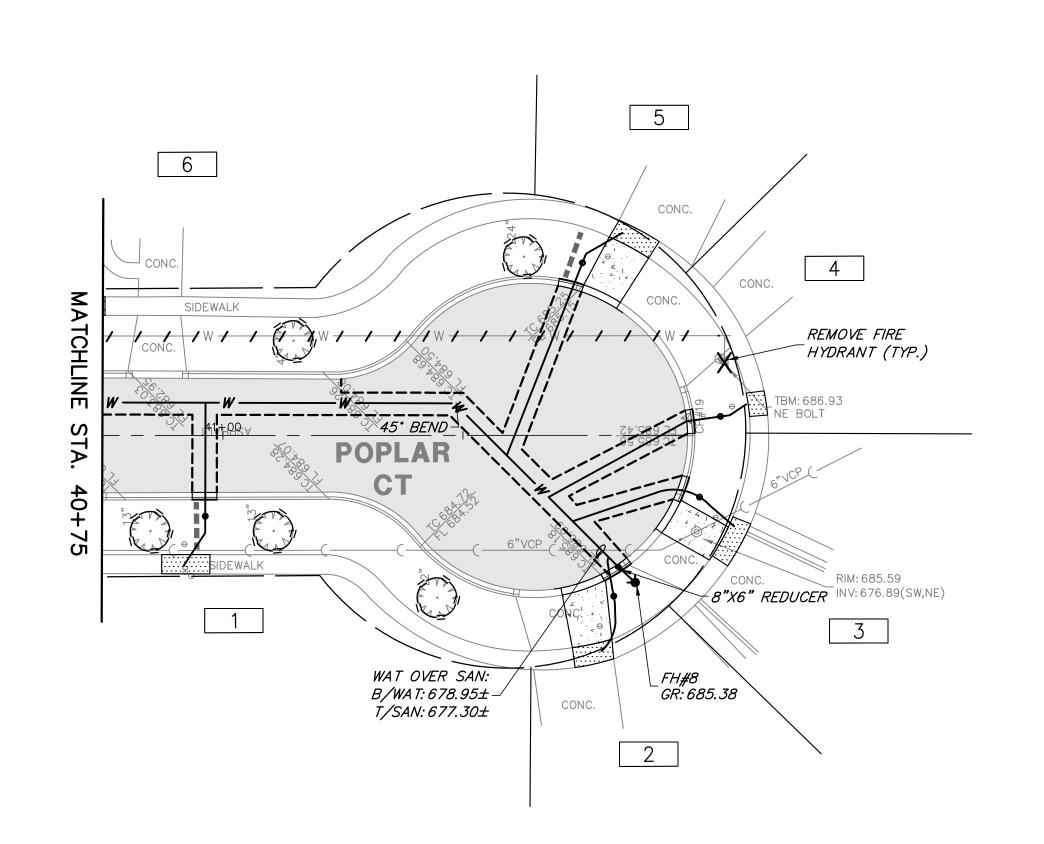












HMA RECONSTRUCTION

HMA DRIVEWAY PAVEMENT

PCC PAVEMENT

PCC SIDEWALK

CLASS D PATCH

DETECTABLE WARNINGS

TYPE M (MODIFIED) CURB
& GUTTER (REGULAR)

& GUTTER (REGULAR)

TYPE M (MODIFIED) CURB
& GUTTER (DEPRESSED)

----- PAVEMENT SAWCUT
---- PIPE UNDERDRAINS, 4"

ADJ: ###.## STRUCTURE ADJUSTMENT

TREE TRUNK PROTECTION FENCE

ADJ STRUCTURE TO BE ADJUSTED

R STRUCTURE TO BE REMOVED

/ / / · UTILITY TO BE ABANDONED· X · X · X · UTILITY TO BE REMOVED

TREE ROOT PRUNING

A STRUCTURE TO BE ABANDONED

X STRUCTURE REMOVAL

INLET FILTERS

REMOVE & RELOCATE EXISTING SIGN

HOUSE ADDRESS

GEWALT HAMILTON ASSOCIATES, INC. 625 Forest Edge Drive Vernon Hills, IL. 60061 TEL 847.478.9700 FAX 847.478.9701

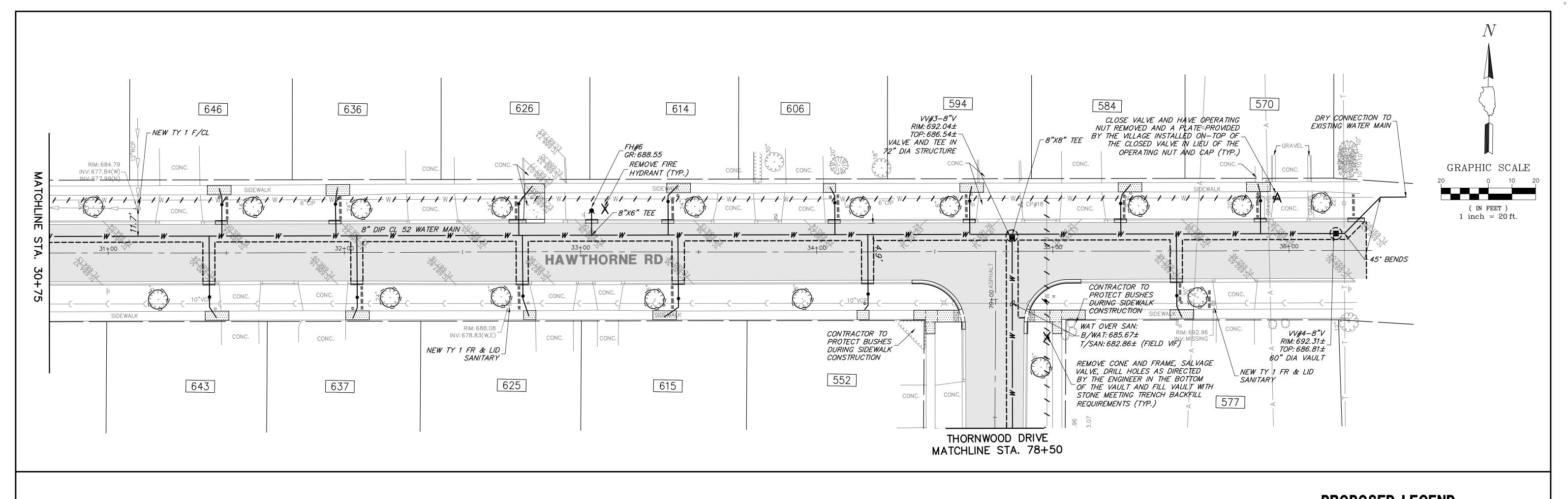
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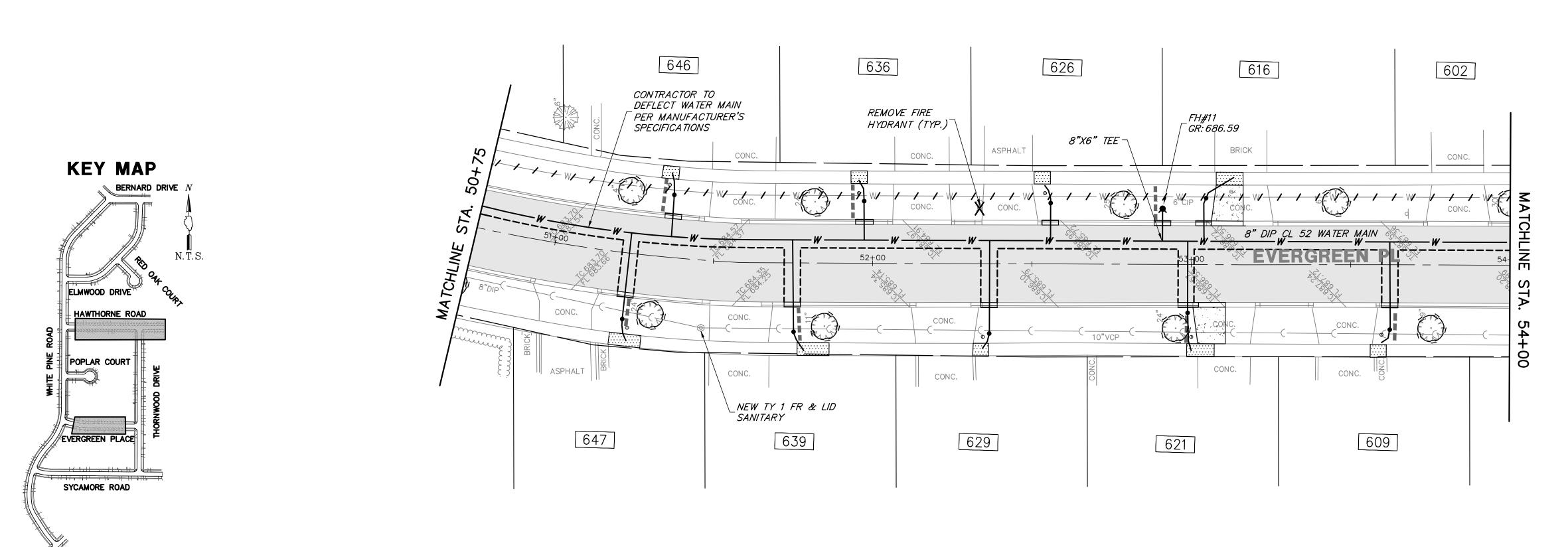
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# ELMWOOD DR STA. 10+80 - 13+00 & POPLAR CT

2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE BUFFALO GROVE, ILLINOIS 60089

						FILE: 4798.072-PR4.dwg		SHEET NUMBER:
						<b>DRAWN BY:</b> SHY <b>DATE:</b> 11.02.2023	_	9
NO. BY	DATE	REVISION	NO. BY	DATE	REVISION	<b>CHECKED BY:</b> PCL <b>DATE:</b> 11.02.2023		OF 19 SHEETS





HMA RECONSTRUCTION

PCC PAVEMENT

HMA DRIVEWAY PAVEMENT

PCC SIDEWALK

CLASS D PATCH

DETECTABLE WARNINGS

TYPE M (MODIFIED) CURB & GUTTER (REGULAR)

TYPE M (MODIFIED) CURB & GUTTER (DEPRESSED) ---- PAVEMENT SAWCUT

— → - — PIPE UNDERDRAINS, 4" ADJ: ###.## STRUCTURE ADJUSTMENT

TREE TRUNK PROTECTION FENCE

STRUCTURE TO BE ADJUSTED

STRUCTURE TO BE REMOVED ·/ / · UTILITY TO BE ABANDONED

· X · X · X · UTILITY TO BE REMOVED TREE ROOT PRUNING

STRUCTURE TO BE ABANDONED

STRUCTURE REMOVAL

INLET FILTERS

REMOVE & RELOCATE EXISTING SIGN

SHEET NUMBER:

of 19 sheets

HOUSE ADDRESS

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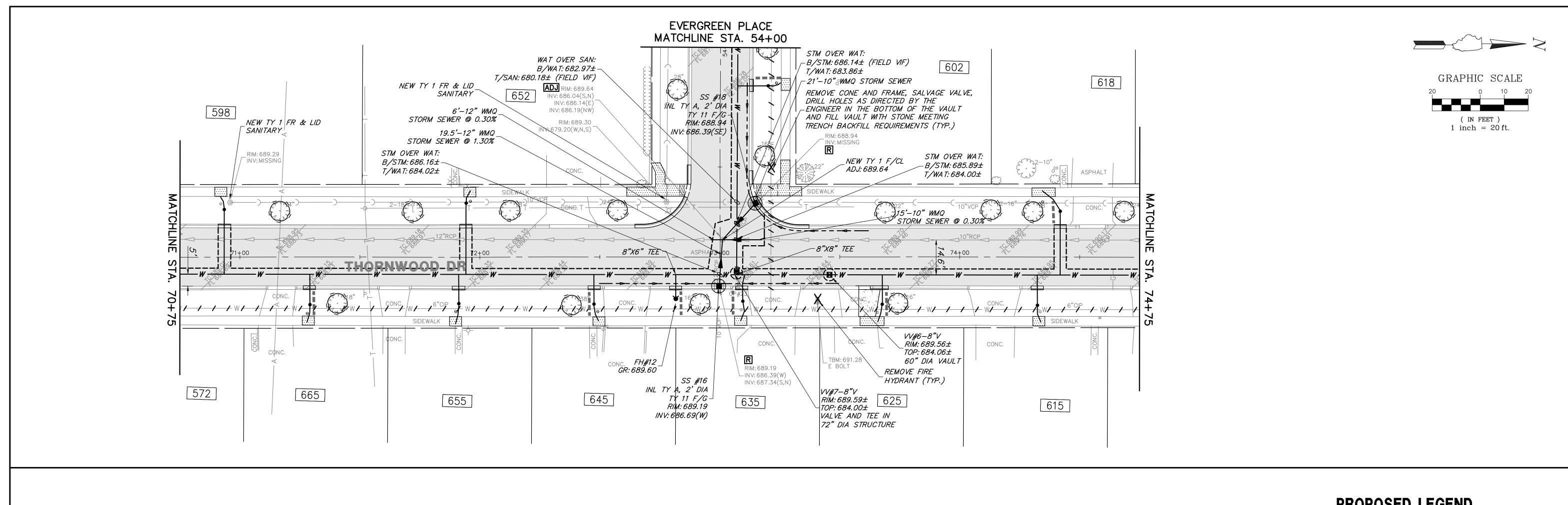
TEL 847.478.9700 FAX 847.478.9701

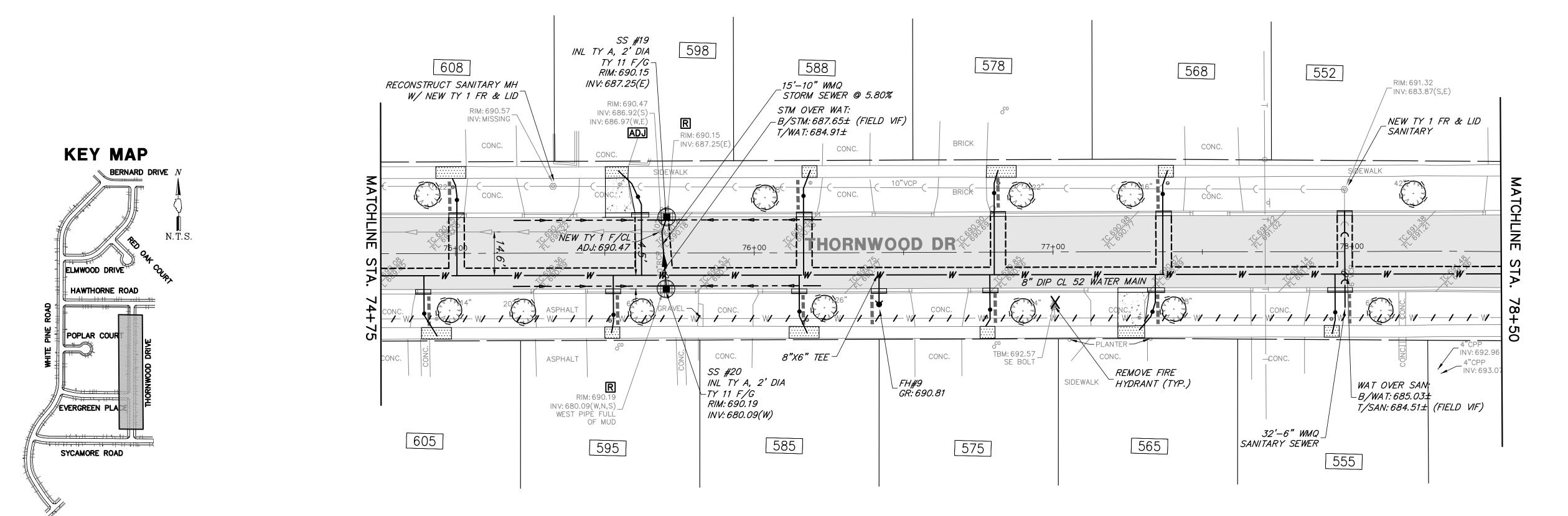
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### **HAWTHORNE ROAD & EVERGREEN PLACE**

2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE **BUFFALO GROVE, ILLINOIS 60089** 

								<b>FILE:</b> 4798.072-PR4.	dwg
								DRAWN BY: SHY	GHA PROJECT #
								<b>DATE:</b> 11.02.2023	4798.072
								CHECKED BY: PCL	
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION	<b>DATE:</b> 11.02.2023	1"=20'





HMA RECONSTRUCTION

HMA DRIVEWAY PAVEMENT

PCC SIDEWALK

PCC PAVEMENT

CLASS D PATCH

DETECTABLE WARNINGS

TYPE M (MODIFIED) CURB & GUTTER (REGULAR)

TYPE M (MODIFIED) CURB & GUTTER (DEPRESSED)

---- PAVEMENT SAWCUT — → - — PIPE UNDERDRAINS, 4"

ADJ: ###.## STRUCTURE ADJUSTMENT TREE TRUNK PROTECTION FENCE

STRUCTURE TO BE ADJUSTED

STRUCTURE TO BE REMOVED · UTILITY TO BE ABANDONED

· X · X · X · UTILITY TO BE REMOVED TREE ROOT PRUNING

STRUCTURE TO BE ABANDONED

STRUCTURE REMOVAL

INLET FILTERS

REMOVE & RELOCATE EXISTING SIGN

HOUSE ADDRESS

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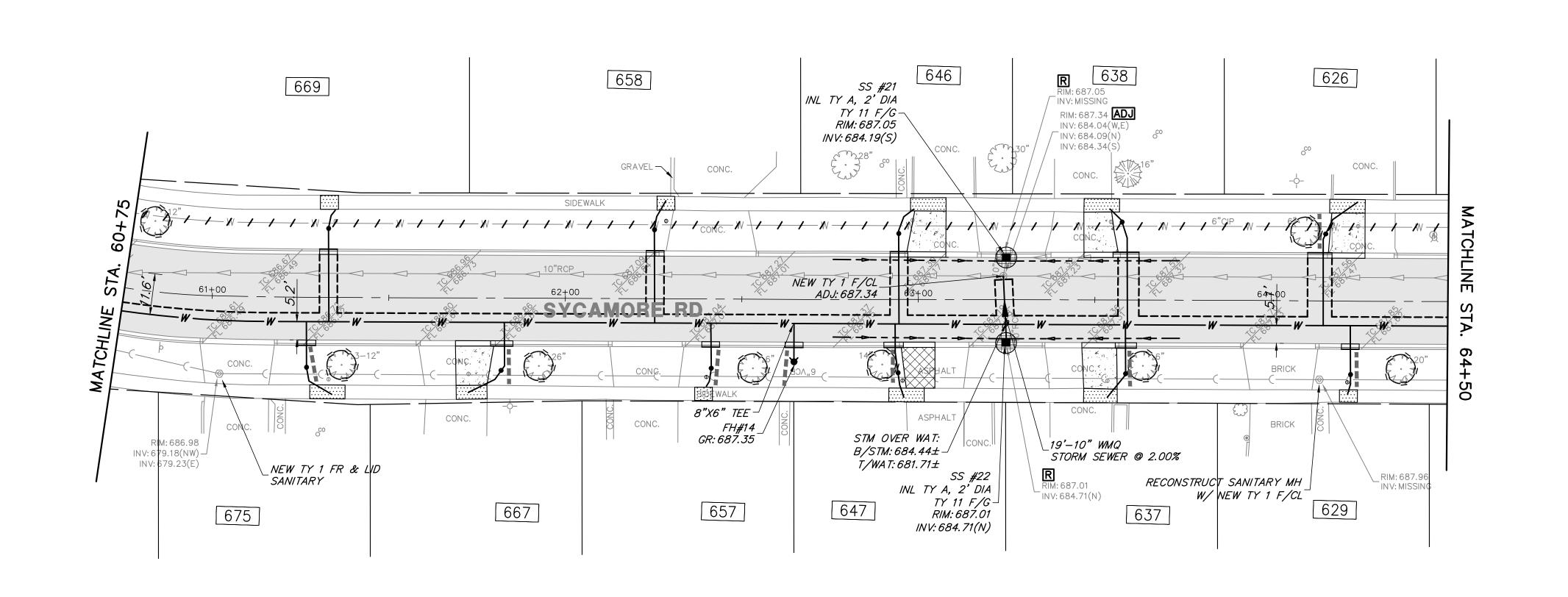
2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE **BUFFALO GROVE, ILLINOIS 60089** 

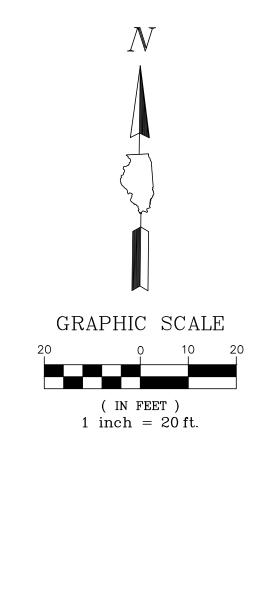
THORNWOOD DRIVE

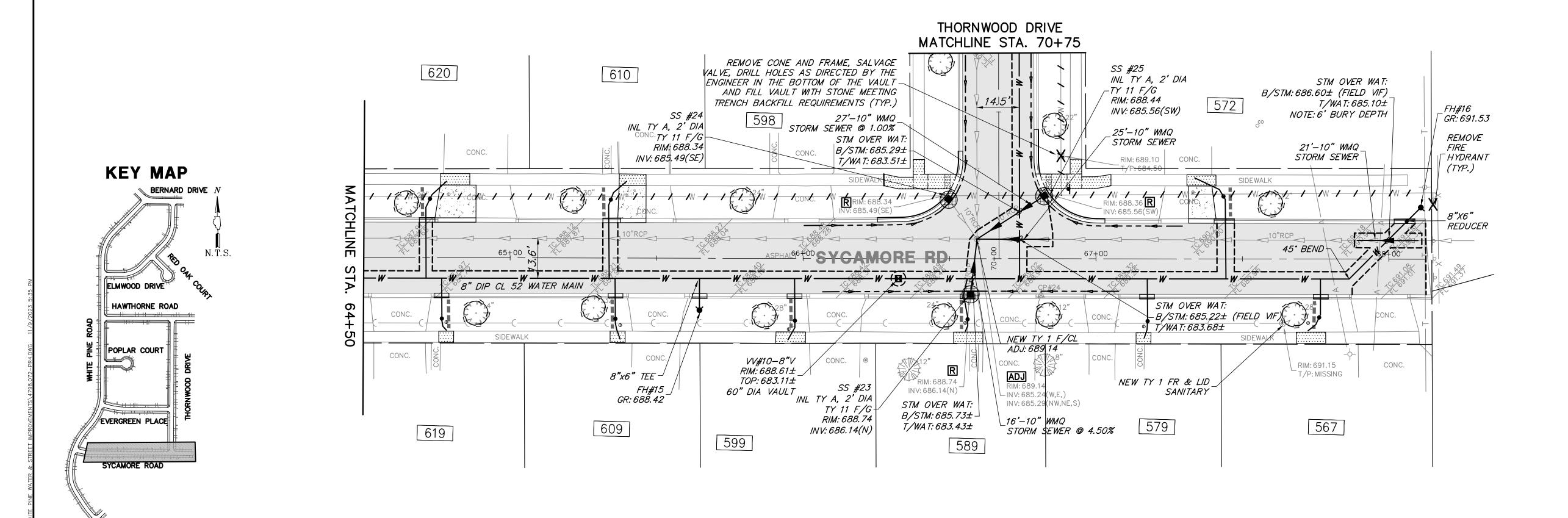
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NO. BY	DATE	REVISION	NO.	BY	DATE	REVISION	<b>CHECKED BY:</b> PCL <b>DATE:</b> 11.02.2023		

SHEET NUMBER:

of 19 sheets







HMA RECONSTRUCTION

PCC PAVEMENT

HMA DRIVEWAY PAVEMENT

PCC SIDEWALK

CLASS D PATCH

DETECTABLE WARNINGS TYPE M (MODIFIED) CURB & GUTTER (REGULAR)

TYPE M (MODIFIED) CURB & GUTTER (DEPRESSED)

---- PAVEMENT SAWCUT — → - — PIPE UNDERDRAINS, 4"

ADJ: ###.## STRUCTURE ADJUSTMENT

STRUCTURE TO BE ADJUSTED

TREE TRUNK PROTECTION FENCE

STRUCTURE TO BE REMOVED

· UTILITY TO BE ABANDONED · X · X · X · UTILITY TO BE REMOVED

TREE ROOT PRUNING STRUCTURE TO BE ABANDONED

STRUCTURE REMOVAL

INLET FILTERS

REMOVE & RELOCATE EXISTING SIGN

HOUSE ADDRESS

SHY GHA PROJECT#

SCALE:

4798.072

1"=20'

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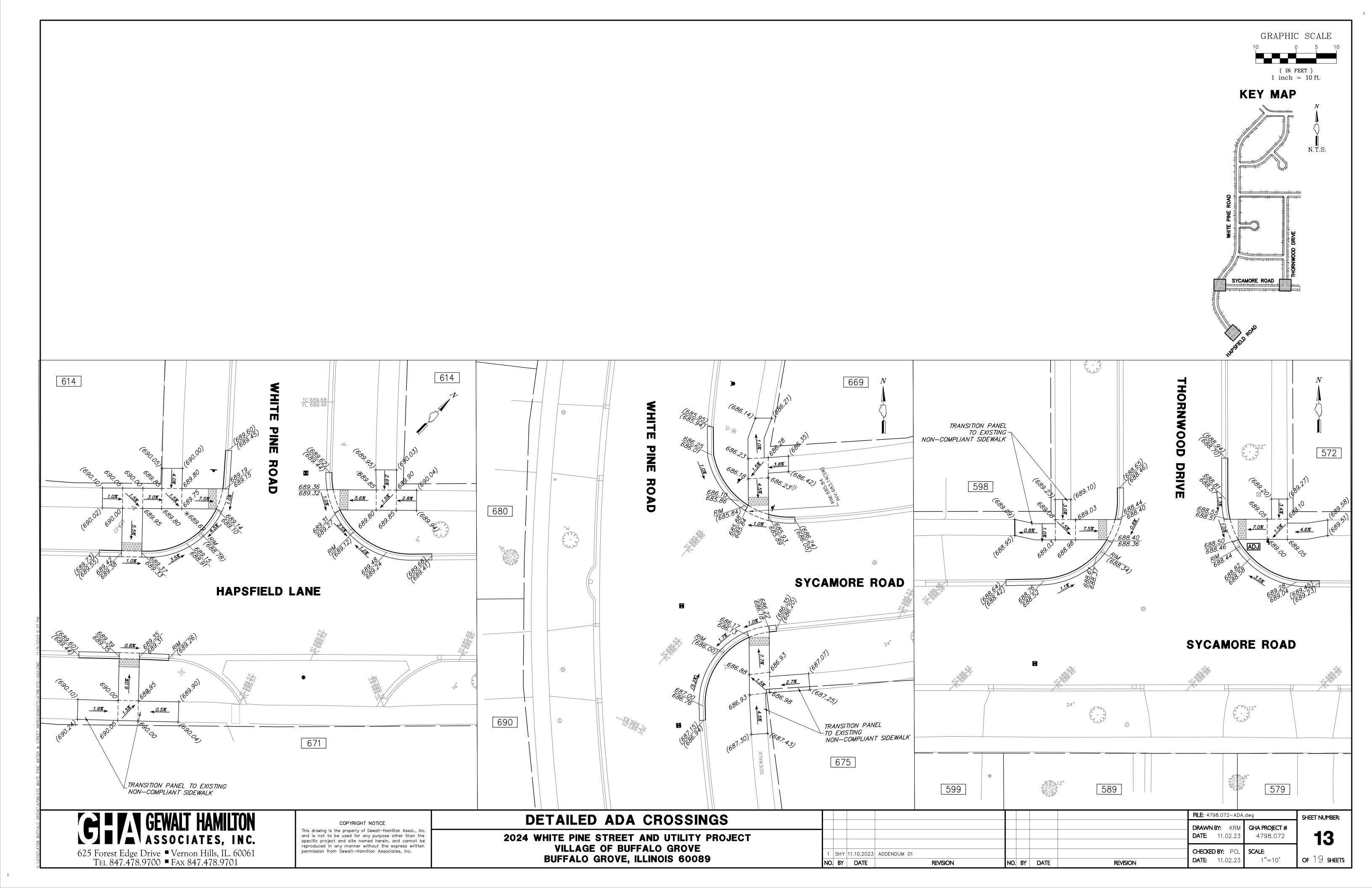
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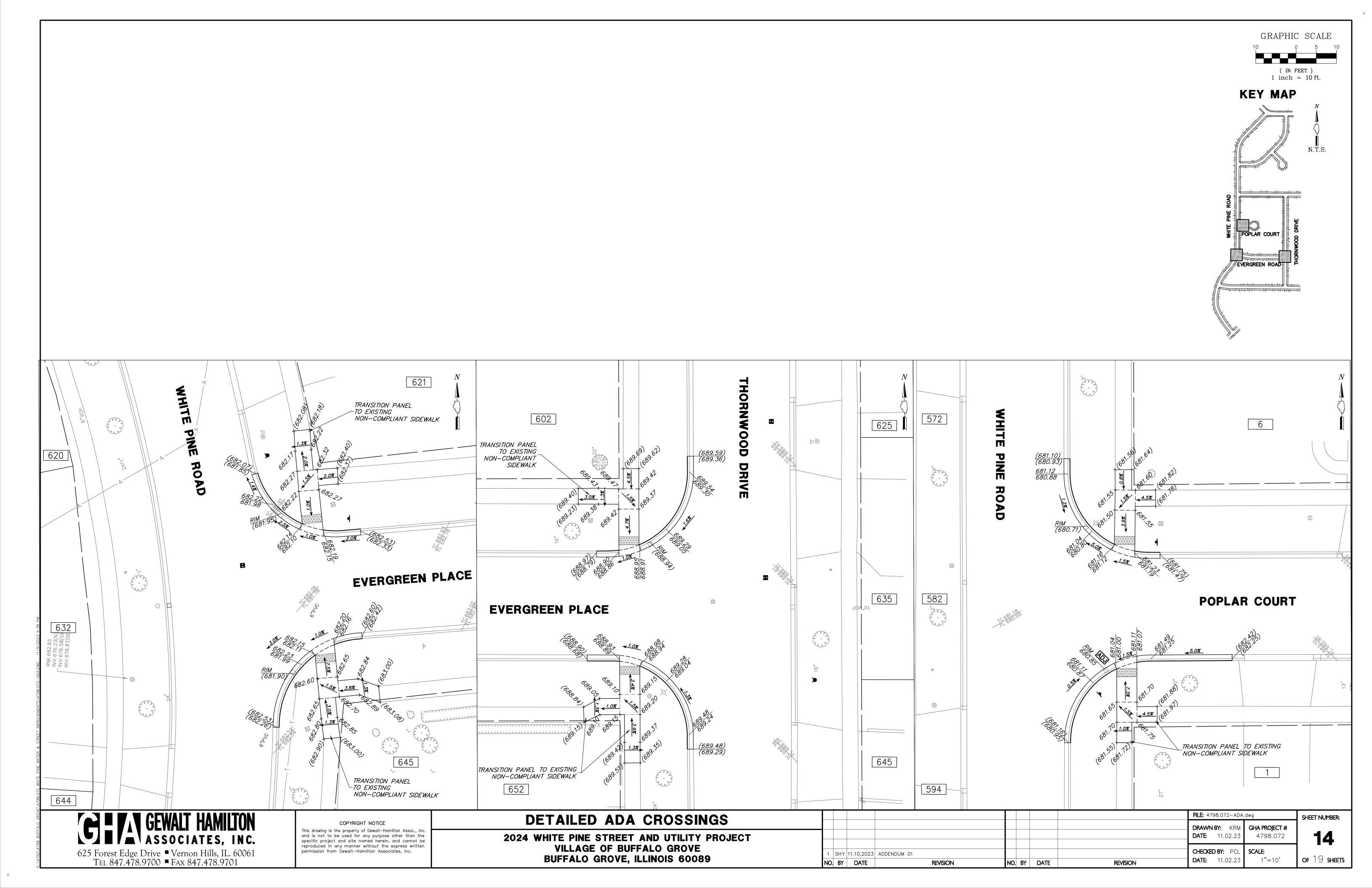
SYCAMORE ROAD 2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE **BUFFALO GROVE, ILLINOIS 60089** 

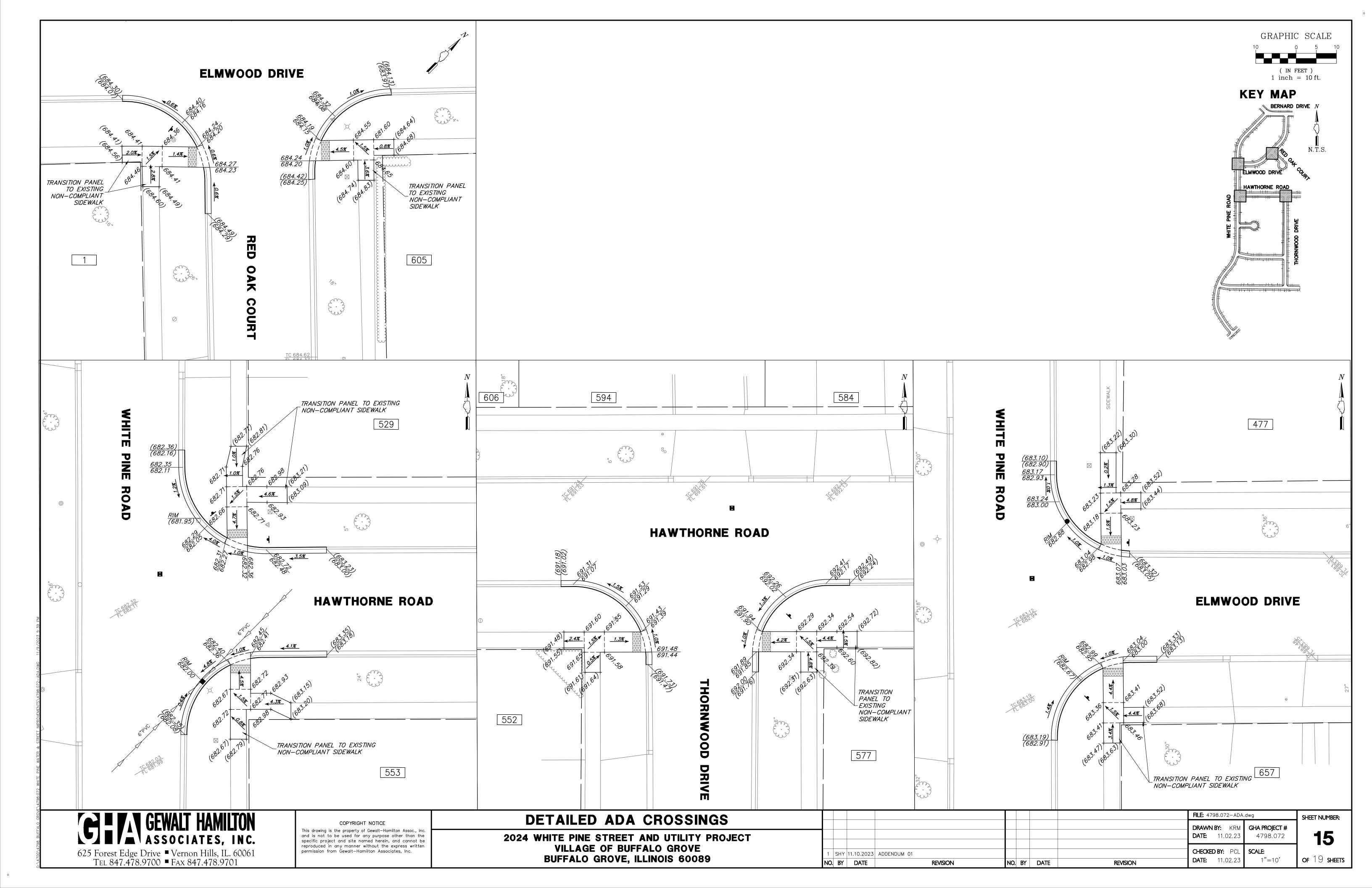
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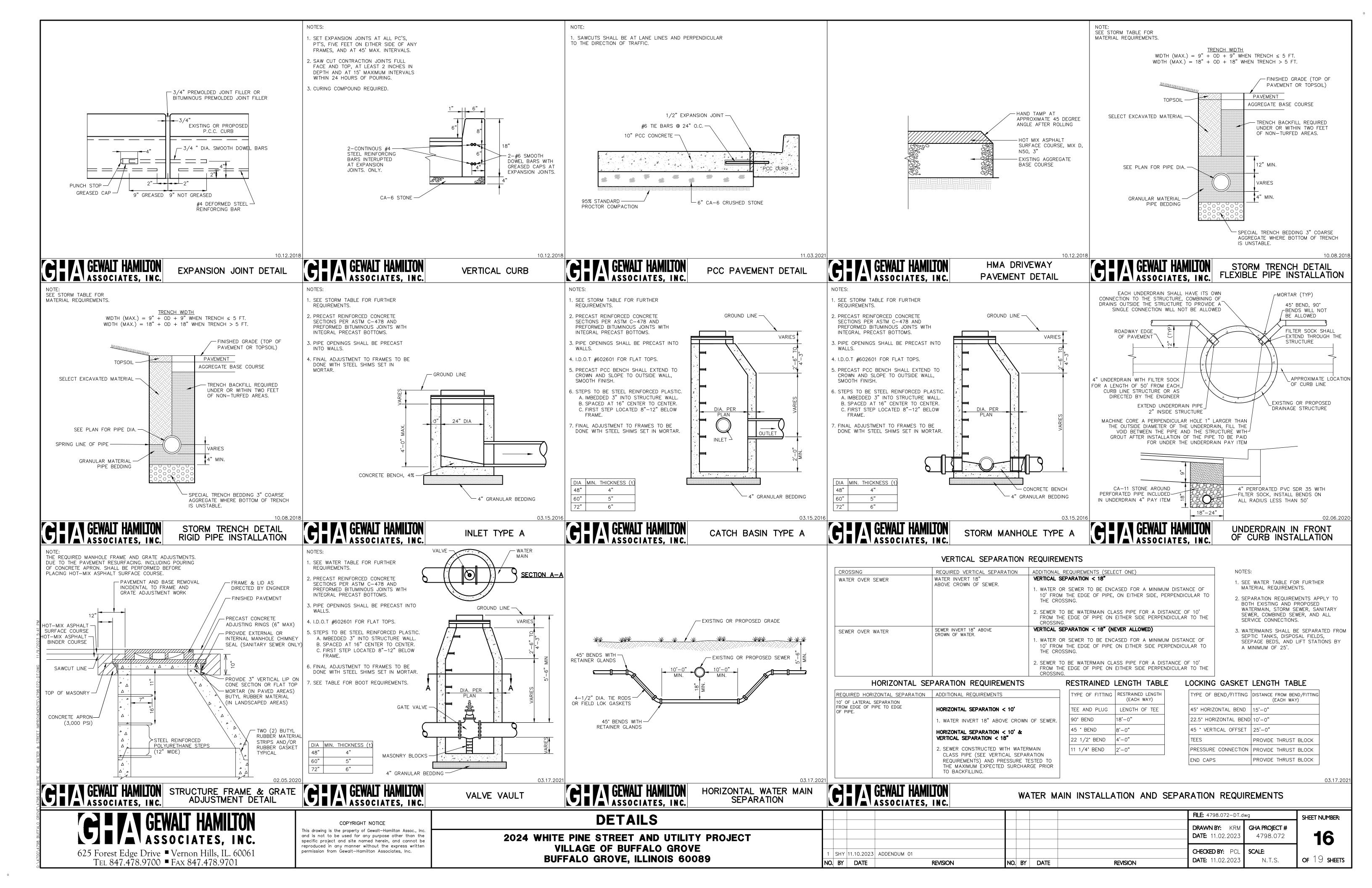
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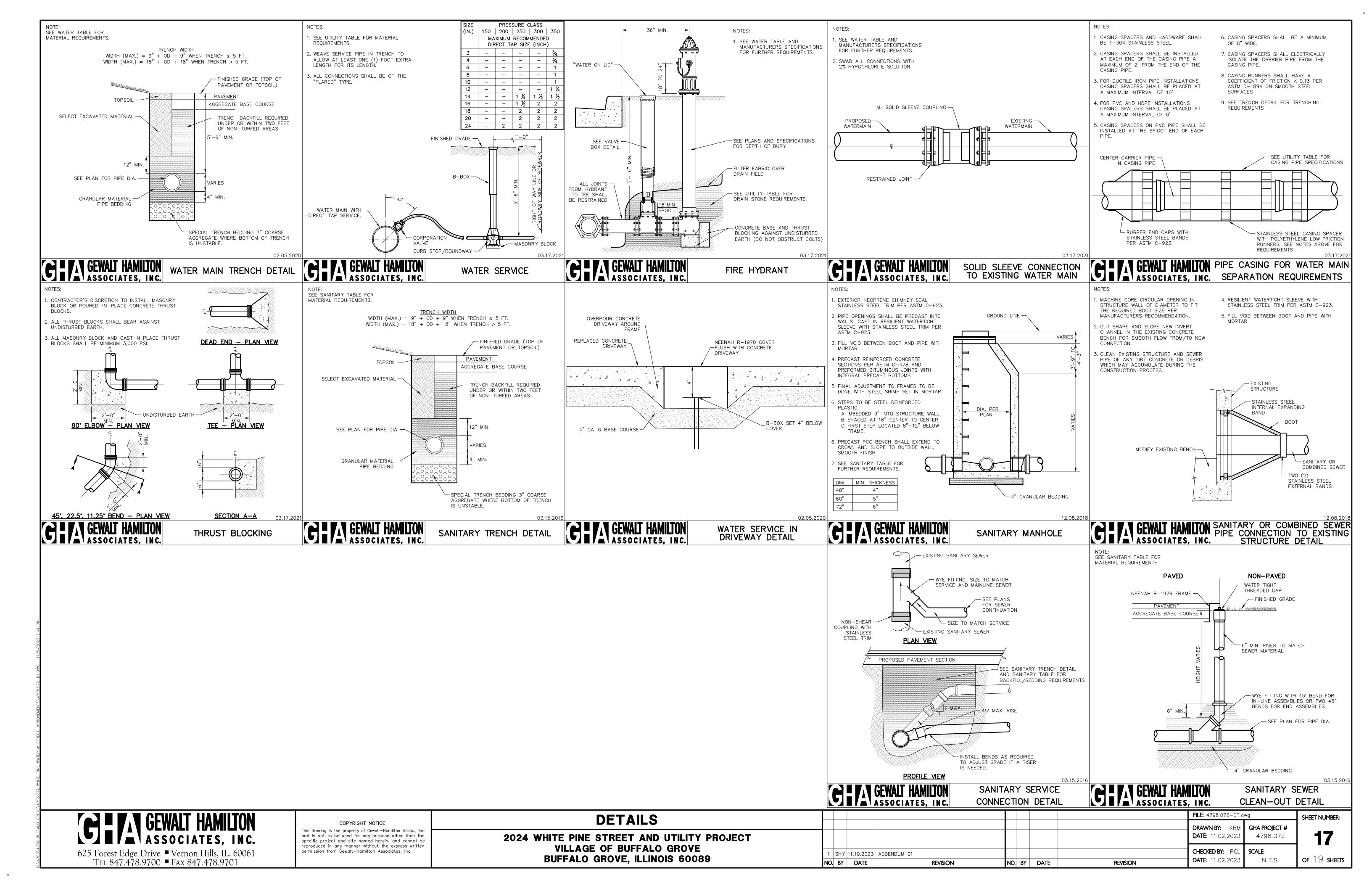
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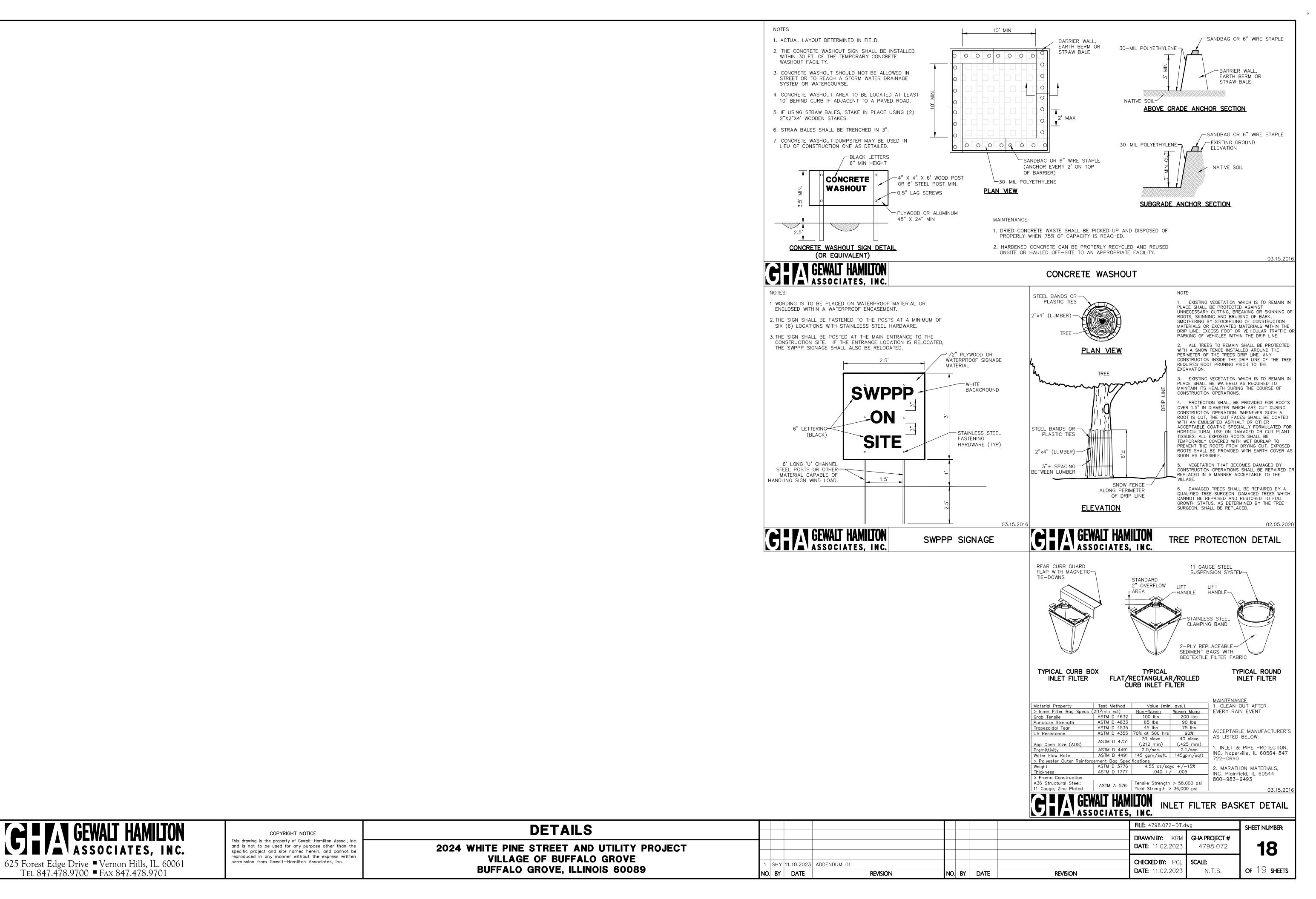


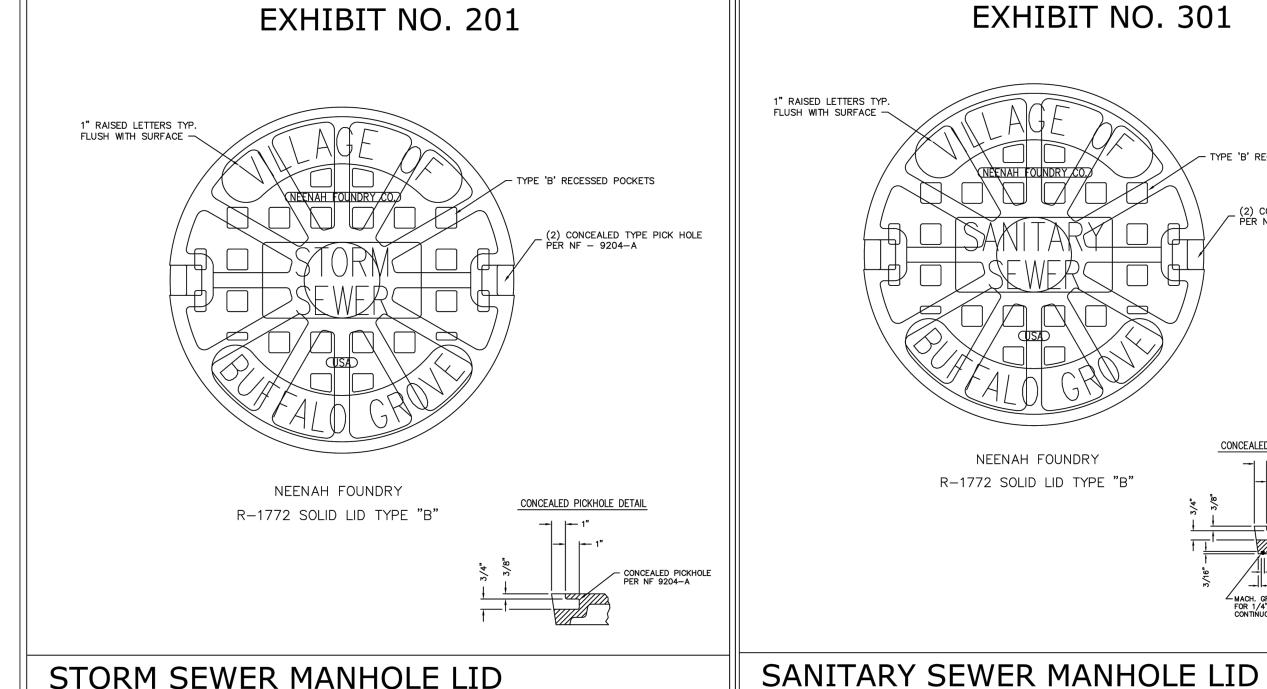


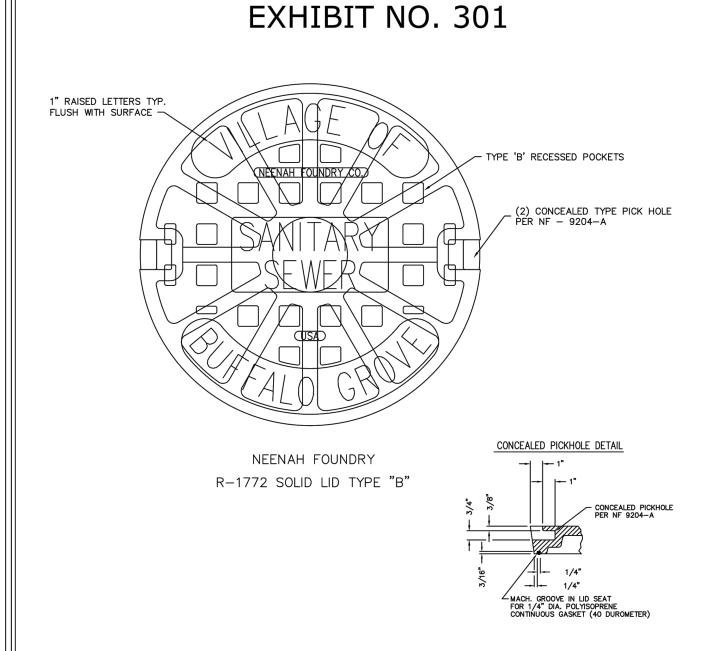


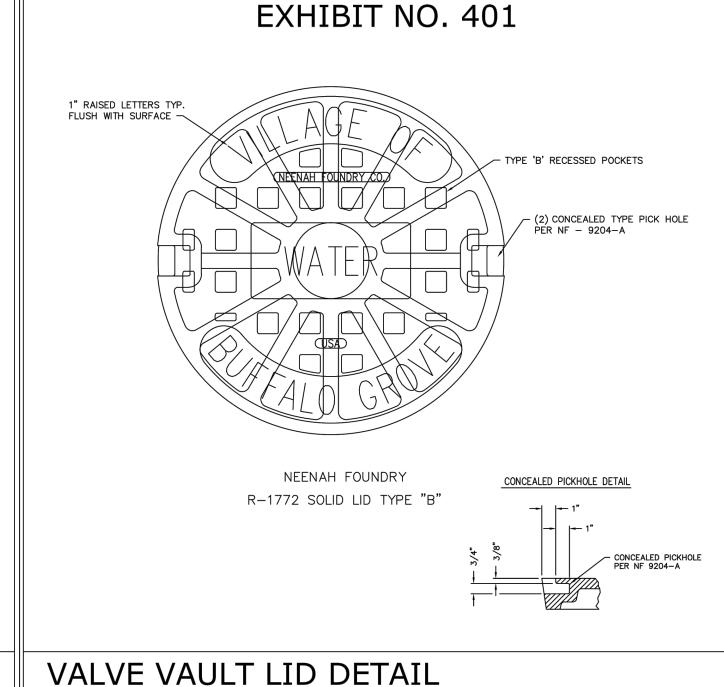








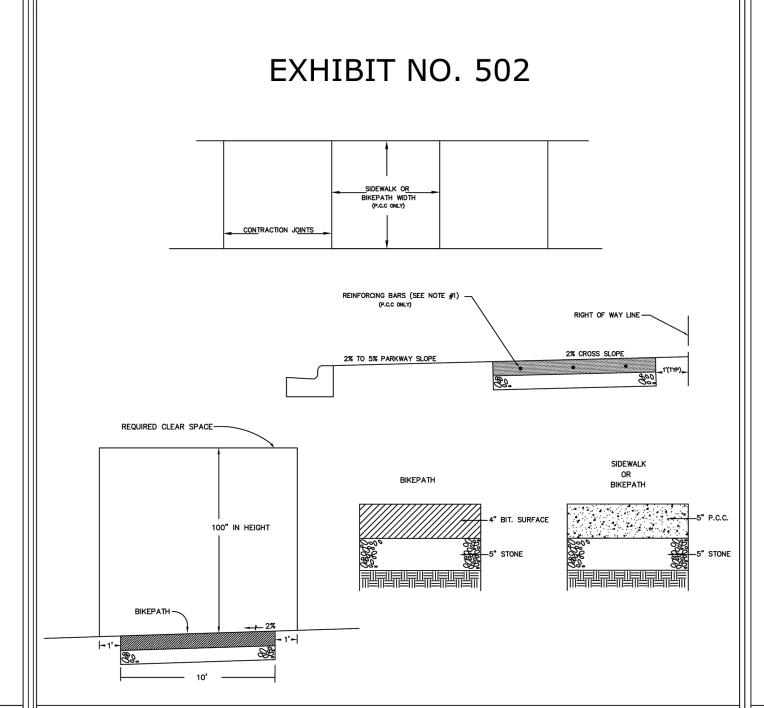


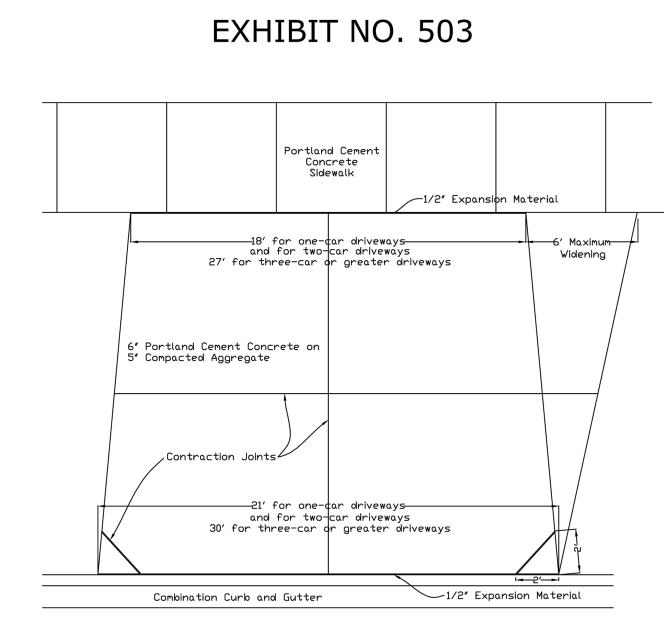


STORM SEWER MANHOLE LID **DETAIL** 

**DETAIL** 

EXHIBIT NO. 501 4" CA-11 STONE BASE
MECHANICALLY
COMPACTED
3" EXPANSION JOINT STEEL #4 DEFORMED — STEEL CONTINUOUS REINFORCING BARS B4.12 #4 DEFORMED STEEL CONTINUOUS ^ REINFORCING BARS EXPANSION JOINT STEEL B4.12 REVERSE PITCH **B4.12 CURB AND GUTTER DETAIL** 





- SET EXPANSION JOINTS AT ALL PC'S, PT'S, FIVE FEET ON EITHER SIDE OF ANY FRAMES, AND AT 45' MAX. INTERVALS.
- CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS AND SAW CUT WITHIN 24 HOURS.
- 3. JOINTS SHALL BE CLEANED AND SEALED ACCORDING TO ARTICLE 420.12.
- 4. CURING COMPOUND REQUIRED. 5. IDOT APPROVED CURBS ALSO PERMITTED.

#### Prepared by the Village Engineering Division

### **BIKEPATH & SIDEWALK DETAIL**

- 1. AT ALL TRENCH CROSSINGS,  $3 10' \times 3/4"$  REINFORCING BARS SHALL BE
- PLACED EQUALLY SPACED AND CENTERED OVER THE TRENCH.
- 2. CONCRETE THICKNESS SHALL BE 6" AT ALL DRIVEWAYS AND TRENCH CROSSINGS. 3. SET 3/4" EXPANSION JOINTS AT 50' MAX. SPACING INTERVALS.
- 4. SIDEWALK WIDTH AS SHOWN ON PLANS.
- 5. CURB RAMPS SHALL COMPLY WITH LATEST ACCESSIBILITY STANDARDS.

#### Prepared by the Village Engineering Division

### DRIVEWAY APRON DETAIL

- 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

GEWALT HAMILTON ASSOCIATES, INC. 625 Forest Edge Drive Vernon Hills, IL. 60061 TEL 847.478.9700 FAX 847.478.9701

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### VILLAGE OF BUFFALO GROVE DETAILS

2024 WHITE PINE STREET AND UTILITY PROJECT VILLAGE OF BUFFALO GROVE **BUFFALO GROVE, ILLINOIS 60089** 

1	SHY	11.10.2023	ADDENDUM 01			<b>CHECKED BY:</b> PCL <b>DATE:</b> 11.02.2023
						<b>DRAWN BY:</b> KRM <b>DATE:</b> 11.02.2023
						<b>FILE:</b> 4798.072-DT.

SHEET NUMBER:

GHA PROJECT# 4798.072 of 19 sheets

SCALE:

N.T.S.