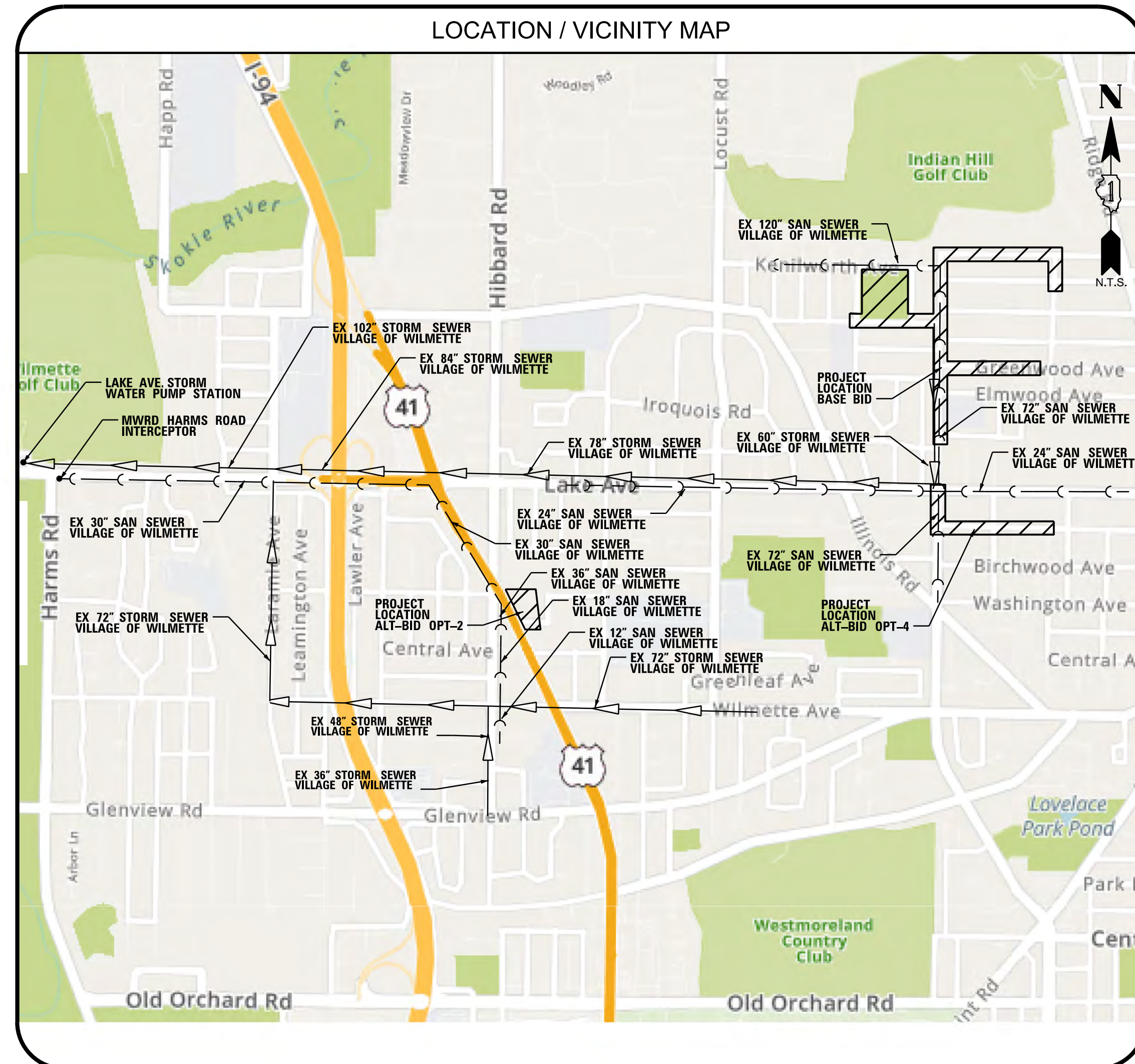


# Village of Wilmette

## WEST SIDE NEIGHBORHOOD STORAGE PROJECT

### CONTRACT #3

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IDOT STANDARDS	
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STD. 602001-02	CATCH BASIN - TYPE A
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STD. 602301-04	INLET - TYPE A
STD. 602401-07	PRECAST MANHOLE - TYPE A, 4' DIAMETER
STD. 602402-03	PRECAST MANHOLE - TYPE A, 5' DIAMETER
STD. 602406-11	PRECAST MANHOLE - TYPE A, 6' DIAMETER
STD. 602411-09	PRECAST MANHOLE - TYPE A, 7' DIAMETER
STD. 602416-09	PRECAST MANHOLE - TYPE A, 8' DIAMETER
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STD. 602601-06	PRECAST REINFORCE CONCRETE FLAT SLAB TOP
STD. 602701-02	MANHOLE STEPS
STD. 604001-05	FRAME AND LIDS, TYPE 1
STD. 604051-04	FRAME AND GRATE, TYPE 11
STD. 606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
STD. 701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
STD. 701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
STD. 701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≤ 45 MPH
STD. 701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
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BLR 17-4	TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION
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TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTION, AND DRIVEWAYS
TC-11	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

VILLAGE PRESIDENT  
SENTA PLUNKETT

TRUSTEES  
PETER BARROW  
KATHY DODD  
GINA KENNEDY  
KATE GJAJA  
JUSTIN SHEPERD  
DANIEL E. SULLIVAN, JR.

VILLAGE MANAGER  
MICHAEL BRAIMAN

ASSISTANT VILLAGE MANAGER  
ERIK HALLGREN

ENGINEERING & PUBLIC WORKS DIRECTOR  
BRIGITTE BERGER-RAISH

VILLAGE ENGINEER  
DAN MANIS

**100%  
SUBMITTAL  
10 / 8 / 2021**

**BENCHMARK**

SEE ALIGNMENT, TIES, AND BENCHMARKS SHEETS 21 - 28

**LOCATION**

CALL JULIE 811  
WITH THE FOLLOWING:  
COUNTY COOK  
CITY-TOWNSHIP WILMETTE

48 HOURS BEFORE YOU DIG.  
EXCLUDING SAT., SUN., & HOLIDAYS

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION

*John A. Lapaglia*  
10/8/2021  
ENGINEER DATE


**JOHN A. LAPAGLIA**  
ILLINOIS REGISTRATION No. 062-070592  
EXPIRATION DATE: 11/30/2021


CONSTRUCTABILITY REVIEW BY

REVIEWER DATE

CLIENT:  **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE PROPOSED DEVELOPMENT. IF ANY DRAINAGE PATTERNS WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR THE COLLECTION AND DIVERSION OF SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS APPROVED FOR USE BY THE MUNICIPAL ENGINEER, AND THAT SUCH SURFACE WATERS ARE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY.

 **CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

 **BAXTER & WOODMAN**  
Consulting Engineers

PROFESSIONAL DESIGN FIRM NO. 184-001175  
EXPIRATION DATE: 04/30/23

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

**B. NOTIFICATIONS**

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).
2. VILLAGE OF WILMETTE PUBLIC WORKS DEPARTMENT MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123. CONTRACTOR SHALL VERIFY ALL PROPOSED STRUCTURES, RIM, AND INVERT ELEVATIONS.

**C. STAKING**

1. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE ENGINEER, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
2. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED, AND SHALL BE AS INDICATED ON THE PLANS, ELEVATIONS SHOWN AT POINT OF CURVE, ETC. IS EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS FOR STRUCTURES, ETC., ARE FROM THE PROPOSED BASE LINE OF CONSTRUCTION.

**D. GENERAL NOTES**

1. THE OWNER, THE VILLAGE OF WILMETTE SHALL BE NOTIFIED IN WRITING AT LEAST (3) FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. SPECIAL ATTENTION IS CALLED TO SECTION 105 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION. THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE PARKWAYS SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.
2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR EXISTING UTILITIES IN CONFORMANCE WITH THE AFFECTED UTILITY COMPANIES REQUIREMENTS AS MAY BE REQUIRED TO PERFORM THE WORK OF THIS CONTRACT.
3. 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, THE CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE OWNER PRIOR TO PERFORMING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK AS REQUIRED.
4. THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION AT NO ADDITIONAL EXPENSE TO THE VILLAGE

5. SOIL EROSION PROTECTION SHALL BE IN ACCORDANCE WITH IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. ALL DISTURBED AREAS (NOT IMPERVIOUS IN NATURE) SHALL BE FINE GRADED, TOPSOIL RESTORED (MIN. 4 INCHES) AND SEED/MULCH APPLIED UNLESS OTHERWISE SPECIFIED ON THE PLANS.

6. DETECTABLE WARNINGS, SIDEWALK, COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT SHALL BE AS DIRECTED BY ENGINEER.

7. ALL TRANSITIONS IN CURB HEIGHT SHALL OCCUR OVER 1 FEET ALONG CURB LINE. AT LOCATIONS WHERE CURB TERMINATES, THE LAST 3 FOOT SHALL BE DEPRESSED. DEPRESSED CURB SHALL ALSO BE AT LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

8. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS 0.00\_ FT.

9. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.

10. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.

11. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.

12. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.

13. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

14. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.

15. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.

16. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.

17. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES, OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

18. ALL TRUCKS MUST ENTER THE SITE FROM THORNWOOD AVENUE AND MUST APPROACH FROM THE EAST, EXCEPT WHEN HUNTER ROAD IS UNDER CONSTRUCTION. UNDER NO CIRCUMSTANCES WILL TRUCK TRAFFIC BE ALLOWED TO APPROACH FROM THE WEST ON THORNWOOD AVENUE OR IDLE OUTSIDE OF THE SITE ALONG THORNWOOD AVENUE EAST OF THE CONSTRUCTION ACCESS OR IDLE ON ANY RESIDENTIAL STREET. ALL TRUCKS MUST LEAVE THE SITE THROUGH THE DARTMOUTH STREET CONSTRUCTION ACCESS AND PROCEED WEST ON THORNWOOD AVENUE TO SKOKIE BOULEVARD.

19. AERIAL PHOTOGRAPHY SHOWN ON THESE DRAWINGS IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FILED VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.

**E. MISCELLANEOUS**

1. DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

2. ALL SAWCUTTING SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL. ANY ITEMS OF WORK REMOVED PRIOR TO SAWCUTTING WILL NOT BE MEASURED FOR PAYMENT.

3. PAVEMENT GRADES: THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT OF SURFACE COURSE, UNLESS OTHERWISE INDICATED.

4. ANY EXISTING PAVEMENT DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION SHALL BE REPLACED/REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

5. A NOMINAL QUANTITY OF TEMPORARY SIDEWALK HAS BEEN ADDED TO THE CONTRACT FOR USE BY THE ENGINEER IN THE FIELD.

6. JOB SITE DAILY CLEANUP: THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK AREA AT THE END OF EACH DAY. ALL MATERIALS NOT NEEDED FOR THE CONSTRUCTION PROCESS SHALL BE REMOVED FROM THE WORK AREAS. THIS INCLUDES, BUT IS NOT LIMITED TO: OLD VAULTS, PIPING, OLD CABLES, REMOVED PAVEMENT, WOOD SCRAPS, OLD CURB & GUTTER, PAINT CANS, LITTER, BROKEN TREE BRANCHES, ETC. FAILURE TO MAINTAIN A CLEAN WORK AREA AT THE END OF EACH DAY AND TO THE SATISFACTION OF THE ENGINEER WILL RESULT IN A PENALTY OF \$500.00 PER INCIDENT. THIS ALSO INCLUDES ALL WORK COVERED UNDER THE "MAINTENANCE OF ROADWAYS" DISTRICT 1 SPECIAL PROVISION.

7. THE SLURRY RESULTING FROM SAW-CUTTING WORK SHALL BE IMMEDIATELY WASHED AWAY USING WATER TO PREVENT TRACKING BY VEHICLES OR PEDESTRIANS TO THE SATISFACTION OF THE ENGINEER.

8. ALL NEW AND EXISTING SEWERS INCLUDING ALL MANHOLES, CATCH BASINS AND INLETS AFFECTED BY CONSTRUCTION MUST BE TELEVISED AND CLEARED OF DEBRIS BEFORE PAVEMENT RESTORATION. THE VILLAGE MUST REVIEW AND APPROVE THE CONDITION OF THE SEWERS BEFORE THE CONTRACTOR PERFORMS PAVEMENT RESTORATION. THE CONTRACTOR SHALL TELEVISE ALL NEW SEWER PIPING INCLUDING ALL JOINTS AND SERVICE CONNECTIONS, NEW SANITARY SEWER LATERALS AND ALL EXISTING SEWERS BEING WORKED ON OR TIED INTO INCLUDING THE LENGTH OF SEWER TO THE NEXT DOWNSTREAM MANHOLE. PAYMENT FOR SEWER WORK WILL NOT BE ISSUED UNTIL A FINAL VIDEO INSPECTION IS PROVIDED.

9. NEW CURB SHALL BE SAW CUT EVERY 25' AND SEALED BY THE CONTRACTOR WITH AN APPROVED POLYSULFIDE SEALER. THE CONTRACTOR MAY SAWCUT THE DAY THE FORMS ARE REMOVED.

10. ONLY PRECAST CONCRETE ADJUSTMENT RINGS, 11" MAXIMUM (3 RINGS MAXIMUM) WILL BE ALLOWED IN THE ADJUSTMENT OR RECONSTRUCTION OF CATCH BASIN, MANHOLE, INLET, AND VALVE VAULT STRUCTURES. COMMON BRICK WILL NOT BE ALLOWED.

11. CONTRACTOR MUST DO A SIGN INVENTORY FOR ALL SIGNS TO BE REMOVED AND RELOCATED BEFORE CONSTRUCTION AND CONCLUSION OF PROJECT.

12. THE CONTRACTOR SHALL BE AWARE THAT THERE MAY BE EXISTING LAWN SPRINKLER SYSTEMS LOCATED IN PUBLIC RIGHT-OF-WAY. IF A SPRINKLER SYSTEM IS LOCATED BY THE SIDEWALK AND OR BACK OF CURB, PROTECTION OF SYSTEM SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK INVOLVING THE SPRINKLER SYSTEMS WITH THE OWNERS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF ANY RELOCATIONS OR REPAIRS FROM THE OWNERS PRIOR TO FINAL PAYMENT FOR THE PROJECT.

13. ALL EXISTING AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE SODDED AS DIRECTED BY THE ENGINEER.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PEDESTRIAN/ADA ACCESS IS MAINTAINED ON AT LEAST ONE SIDE OF THE ROADWAY DURING CONSTRUCTION AT ALL TIMES.

15. TREE PROTECTION AND TEMPORARY CONSTRUCTION FENCE LIMITS SHALL BE APPROVED BY THE ENGINEER.

16. NO TRUCK TRAFFIC SHALL BE ALLOWED ON KENILWORTH AVENUE OR DARTMOUTH AVENUE NORTH OF THE WESTERN TRUCK ACCESS DRIVE AT THORNWOOD PARK.

17. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

18. WHERE SOD PLACEMENT IS NOT ADVENTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.

19. CLASS C PATCHING SHALL REQUIRE ONLY THE EXISTING PAVEMENT TO BE TIED INTO THE PROPOSED PATCH. NO CURB, WHETHER EXISTING OR PROPOSED, SHALL BE TIED INTO THE PATCH.

20. CURB REMOVAL WITHIN 10 LINEAR FEET OF A TREE CAN BE DETERMINED BY THE ENGINEER IN THE FIELD TO BE COMPLETED WITHOUT A BACKHOE OR OTHER LARGE MACHINERY IN ORDER TO PROTECT THE TREE ROOT SYSTEM. UPON THE DIRECTION FROM THE ENGINEER, THE CONTRACTOR MUST HAND DIG TO REMOVE THE REQUIRED LENGTH OF CURB. ZERO OVERDIG SHALL BE ALLOWED AT THESE LOCATIONS.

**F. STORM SEWER**

1. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS.

2. ANY EXISTING OR PROPOSED STORM SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED.

3. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES OF ALL NEW, ADJUSTED, OR RECONSTRUCTED STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE INSTALLATION, ADJUSTMENT OR RECONSTRUCTION.

4. WHEN EXISTING DRAINAGE OR SEWERAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PUBLIC OR PRIVATE DRAINS, SEWERS, OR CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE ALL STORM WATER WHICH WOULD BE RECEIVED BY THESE FACILITIES AND DISCHARGE SAME. THE CONTRACTOR SHALL ALSO PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME THAT PERMANENT CONNECTIONS WITH SEWERS ARE CONSTRUCTED AND IN SERVICE.

5. DRAINAGE STRUCTURES CONSTRUCTED OVER EXISTING STORM SEWER SHALL INCLUDE THE REMOVAL OF THE NECESSARY PORTION OF THE STORM SEWER.

6. ALL PROPOSED STORM SEWER CONNECTION 24" OR LESS SHALL INCLUDE BOOTS AROUND THE PROPOSED PIPE. ALL STORM CONNECTIONS TO EXISTING BLOCK STRUCTURES SHALL BE GROUTED: ALL STORM CONNECTIONS TO EXISTING PRECAST STRUCTURES SHALL BE CORED AND BOOT EXCEPT ELLIPTICAL PIPE WILL NOT BE BOOTED.

7. ALL EXISTING STRUCTURES SHALL HAVE THE BENCHES CLEANED AND REPOURED PER THE ENGINEER, WHICH SHALL BE PAID FOR AS DRAINAGE STRUCTURES TO BE REHABILITATED.

8. ALL EXISTING STORM AND SANITARY SEWERS WITHIN THE PROJECT LIMITS SHALL BE TELEVISED PRE- AND POST-CONSTRUCTION BY THE CONTRACTOR. THIS WORK SHALL BE PAID FOR AS PRECONSTRUCTION SEWER TELEVISING AND POST-CONSTRUCTION SEWER TELEVISING AS APPROPRIATE.

9. ANY EXISTING OR PROPOSED SEWERS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

10. ALL SEWER AND WATER SERVICES CROSSED BY NEW SEWERS SHALL BE PROPERLY LOCATED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE DONE TO SAID SERVICES NOT CONSIDERED TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR.

11. ALL CURBLINE DRAINAGE STRUCTURS SHALL HAVE AN EAST JORDAN 7010, TYPE M3 SINUSOIDAL GRATE.

12. ALL BYPASS PUMPING REQUIRED FOR STORM SEWER WORK SHALL BE CONSIDERED INCIDENTAL TO BOTH THE APPLICABLE PROPOSED AND/OR REMOVAL OF STORM SEWER ITEMS.

12. PER THE DIRECTION OF THE VILLAGE AND/OR ENGINEER, THE PROPOSED SANITARY/STORM SEWER SERVICE PIPES MAY REQUIRE INSTALLATION VIA

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

				DSGN.	JAL
				DWN.	MAK
				CHKD.	LMF
				SCALE:	20'
				PLOT DATE:	10/8/2021
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	CAD USER:	mkoonce
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:	Default
FILE NAME	N:\wilmette\180245.00004\Civil\NOT_C3_180245_01.sht				

TITLE: **WSNSP CONTRACT #3**  
**GENERAL NOTES**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 2 OF 207  
 DRAWING NO. **2**

TUNNELING TO AVOID TREE ROOT DAMAGE, IF NEEDED, WHICH SHALL BE PAID FOR AS SEWER SERVICE REPLACEMENT (TUNNELING), OF THE APPROPRIATE SERVICE REPLACEMENT TYPE.

13. STORM SEWER SERVICES SHOWN ON THE PLANS ARE APPROXIMATED PER THE VILLAGE OF WILLMETTE SEWER TAPES AND ASSUME A 90-DEGREE CONNECTION.

**G. SANITARY SEWER**

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND 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 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.

3. 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.

4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).

5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.

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:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST-IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 21 / SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350	ASTM D-3261, F-2620 (HEAT FUSION)
	ASTM D-3035	ASTM D-3212, F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

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

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¾” TO 1” IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12” ABOVE THE TOP OF THE PIPE WHEN USING PVC.

9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.

10. ALL MANHOLES SHALL BE PROVIDED WITH, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD “SANITARY” CAST INTO THE LID.

11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:

- a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS (“SHEWER-TAP” MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
- b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
- c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING “BAND SEAL” OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATER MAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18” VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18” VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.

13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST “RUBBER BOOTS” THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.

16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE AND OR MORTAR PLUG.

17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

19. THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE OR BASE DIAMETER OF THE PIPE AS ESTABLISHED IN THE ASTM STANDARD TO WHICH THE PIPE IS MANUFACTURED. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

20. THE INDIVIDUAL LINES TO BE TESTED SHALL BE TESTED FOR FINAL ACCEPTANCE NO SOONER THAN 30 DAYS AFTER THEY HAVE BEEN INSTALLED.

21. WHENEVER POSSIBLE AND PRACTICAL, THE TESTING SHALL INITIATE AT THE DOWNSTREAM LINES AND PROCEED TOWARDS THE UPSTREAM LINES. WHENEVER POSSIBLE AND PRACTICAL, THE TESTING SHALL INITIATE AT THE DOWNSTREAM LINES AND PROCEED TOWARDS THE UPSTREAM LINES.

22. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.

23. IN THE EVENT THAT THE DEFLECTION EXCEEDS THE 5% LIMIT IN 10% OR MORE OF THE MANHOLE INTERVALS TESTED, THE TOTAL SEWER PROJECT SHALL BE TESTED.

24. LEAKAGE TESTING, IN COMBINED SEWER AREAS ONLY, IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND AS FOLLOWS:

**A) TEST SECTIONS:**

THE DESIGN SPECIFICATIONS SHALL PROVIDE THAT THE FIRST 1200 FEET AND AT LEAST 10% OF THE REMAINDER OF THE SEWER PROJECT SHALL BE TESTED FOR LEAKAGE. THE ENTIRE LENGTH OF A SEWER OF LESS THAN 1200 FEET SHALL BE TESTED FOR LEAKAGE. IN THE EVENT THAT 10% OR MORE OF THE MANHOLE INTERVALS TESTED DO NOT PASS THE LEAKAGE TEST, THE ENTIRE SEWER PROJECT SHALL BE TESTED.

**B) TESTING METHODS**

TESTING METHODS MAY INCLUDE APPROPRIATE WATER OR LOW-PRESSURE AIR TESTING. THE USE OF TELEVISION CAMERAS OR OTHER VISUAL METHODS FOR INSPECTION PRIOR TO PLACING THE SEWER IN SERVICE AND PRIOR TO ACCEPTANCE IS RECOMMENDED.

**C) WATER TESTING**

i) THE LEAKAGE OUTWARD OR INWARD (EXFILTRATION OR INFILTRATION) SHALL NOT EXCEED THE FOLLOWING LIMITS IN GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM:

EXFILTRATION: 240  
INFILTRATION: 240

ii) AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.

**D) AIR TESTING**

IF USED, THE AIR TEST SHALL, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN SECTION 31-1.11B OF STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, 5TH ED. (1996) (NO LATER ADDITIONS OR AMENDMENTS). THE SPECIFICATIONS SHALL REQUIRE THAT THE TIME REQUIRED FOR A PRESSURE DROP FROM 3.5 TO 2.5 PSIG NOT BE LESS THAN THE TIME SPECIFIED IN THE AIR TEST TABLE IN APPENDIX C. THE TESTING METHODS SELECTED SHOULD TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS PROJECTED AND THE SITUATION DURING THE TEST.

25. AT LOCATIONS WHERE THE EXISTING SANITARY SERVICE CANNOT BE REPLACED IN THE SAME ALIGNMENT (DUE TO TREE OR UTILITY CONFLICTS) WHICH GENERATES A BEND IN THE LINE OF MORE THAN 22.5-DEGRESS, AR AT THE DISCRETION OF THE ENGINEER, A CLEANOUT SHALL BE INSTALLED AT THE ROW.

26. PER THE DIRECTION OF THE VILLAGE AND/OR ENGINEER, THE PROPOSED SANITARY/STORM SEWER SERVICE PIPES MAY REQUIRE INSTALLATION VIA TUNNELING TO AVOID TREE ROOT DAMAGE, IF NEEDED. THE COST OF THE TUNNELING SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE SERVICE REPLACEMENT PAY ITEM.

27. SANITARY SEWER SERVICES SHOWN ON THE PLANS ARE APPROXIMATED PER THE VILLAGE OF WILLMETTE SEWER TAPES AND ASSUME A 90-DEGREE CONNECTION.

**H. EROSION AND SEDIMENT CONTROL**

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.

3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:

- a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
- b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

7. SEDIMENT OR SOIL REACHING THE PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA OUTSIDE THE LIMITS OF WORK SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.

9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK-AND-MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.

10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.

11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.

12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).

13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.

15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.

16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.

17. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATER MAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.

19. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.


20. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.

21. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.

22. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

23. THE VILLAGE SHALL PROVIDE A QUALIFIED PERSON WHO WILL BE RESPONSIBLE FOR CONDUCTING SITE INSPECTIONS IN COMPLIANCE WITH THE ILR10 NPDES PERMIT. AFTER EACH INSPECTION, A REPORT SHOULD BE PREPARED BY THE PERSON WHO PERFORMED THE INSPECTION. THE INSPECTION REPORT SHOULD BE MAINTAINED ON SITE AS PART OF THE PLAN. INSPECTIONS SHOULD BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM, OR BY THE END OF THE FOLLOWING BUSINESS OR WORKDAY, THAT IS

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CLIENT:  **Village of Wilmette**  
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 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
		NATURE OF REVISION		
	FILE NAME	N:\wilmette\180245.00004\Civil\NOT_C3_180245_02.sht		

TITLE: **WSNSP CONTRACT #3 GENERAL NOTES**

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DATE: 10/8/2021
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0.5 INCHES OR GREATER. AREAS INACCESSIBLE DURING INSPECTIONS DUE TO FLOODING OR OTHER UNSAFE CONDITIONS SHALL BE INSPECTED WITHIN 72 HOURS OF BECOMING ACCESSIBLE.

24. INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS (WHEN GROUND AND/OR AIR TEMPERATURES ARE AT OR BELOW 32 DEGREES FAHRENHEIT). INSPECTIONS MUST COMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS A 0.5" OR GREATER RAIN EVENT, OR DISCHARGE DUE TO SNOWMELT OCCURS.

**I. DEWATERING NOTES**

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MANAGE ALL GROUNDWATER, STORMWATER, AND CONSTRUCTION WATER. DURING DEWATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). AT A MINIMUM, DEWATERING FROM THE POND SHALL INCORPORATE A FLOATED PUMP INTAKE AND SEDIMENT FILTER BAG PER THE ILLINOIS URBAN MANUAL, AND DETAILS INCLUDED ON THE PLAN SHEETS. FILTERED WATER SHALL BE DISCHARGED ONTO A STABILIZED SURFACE THAT LIMITS ADDITIONAL EROSION OR SEDIMENTATION AT THE PUMP DISCHARGE LOCATION(S). STABILIZED CONVEYANCE CHANNEL(S) SHOULD BE INSTALLED TO DIRECT WATER TO A DESIRED LOCATION, AT APPLICABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SIZE PUMPS APPROPRIATELY.

2. THE FOLLOWING DEWATERING CONTROLS (THIS LIST IS NOT EXHAUSTIVE) SHALL BE INCORPORATED TO PREVENT SEDIMENT OR OTHER POLLUTANTS FROM ENTERING PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR STORM SEWER SYTEMS.

- FLOATED PUMP INTAKES / SUMP PITS
- PRELIMINARY SEDIMENT SETTLING TANKS / COLLECTION AREAS
- ANIONIC POLYMER PRE-TREATMENTS
- ANIONIC POLYMER MIXING TANKS
- SECONDARY SEDIMENT SETTLING TANKS

3. LOCATION OF SUMP PIT(S), DEWATERING PUMP, AND ALL DEWATERING EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO IMPLEMENTATION OF DEWATERING OPERATIONS. THE DEWATERING FILTER BAG SHALL BE LOCATED OUTSIDE OF THE EXISTING FLOODPLAIN.

4. NO PUMPED WATER SHALL BE ALLOWED TO DISCHARGE/RUN OFF ONTO PUBLIC ROADWAY OR PARKING LOT.

**J. WATER MAIN AND APPURTENANCES**

1. ALL WATER DISTRIBUTION SYSTEM MATERIALS AND CONSTRUCTION SHALL CONFORM TO SECTION 41 OF "THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS".

2. ALL DIRECT BURIED UNDERGROUND DUCTILE IRON PIPING, DUCTILE IRON PIPE FITTINGS, AND DUCTILE IRON APPURTENANCES SHALL BE COATED WITH A LAYER OF ARC-SPRAYED ZINC PER ISO 8179.

3. A MINIMUM DEPTH OF COVER OF FIVE AND A HALF (5'-6") FEET SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER SHALL NOT BE GREATER THAN EIGHT (8'-0") FEET EXCEPT AT SPECIAL CROSSINGS.

4. TESTING: ALL WATER MAINS SHALL BE PRESSURE TESTED, FLUSHED, AND DISINFECTED IN ACCORDANCE WITH "THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", AND AWWA STANDARDS (C600 AND C651). EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF 2 HOURS AT A TEST PRESSURE OF 150 PSI. ALLOWABLE LEAKAGE SHALL BE WITHIN THE LIMITS DETERMINED BY "THE STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS". AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE WATER MAIN. AFTER THE PRESSURE TEST IS PASSED AND PRIOR TO DISINFECTION, THE MAIN SHALL BE THOROUGHLY FLUSHED. IF THERE IS NO HYDRANT AT THE END OF THE MAIN, THE CONTRACTOR SHALL PROVIDE A TEMPORARY TAP LARGE ENOUGH TO AFFECT A VELOCITY IN THE MAIN OF AT LEAST TWO AND A HALF (2 1/2) FEET PER SECOND. FOLLOWING SUCCESSFUL PRESSURE TESTING AND DISINFECTION PROCEDURES, WATER SAMPLES SHALL BE COLLECTED FOR BACTERIOLOGICAL ANALYSIS ON TWO CONSECUTIVE DAYS TAKEN AT 24 HOUR INTERVALS. SATISFACTORY RESULTS OF THE ANALYSES SHALL BE OBTAINED PRIOR TO PLACING THE WATER MAIN INTO SERVICE. DISINFECTION SHALL BE PERFORMED BY AN INDEPENDENT FIRM WITH EXPERIENCE IN THE METHODS OF THIS OPERATION. THE DISINFECTION FIRM AND THE LABORATORY SHALL BE SUBJECT TO THE APPROVAL OF THE COMMISSIONER OF PUBLIC WORKS. DISINFECTION SHALL BE REPEATED AT THE EXPENSE OF THE CONTRACTOR UNTIL SATISFACTORY RESULTS ARE OBTAINED.

5. VALVE VAULTS: VALVE VAULTS SHALL BE AS NOTED ON THE DETAIL SHEET. THE FRAME AND LID FOR VALVE VAULTS SHALL BE NEENAH R-1772 TYPE "B" OR EQUAL

WITH "WATER" EMBOSSED ON THE LID. VAULTS SHALL CONFORM TO ASTM C478. JOINTS FOR VAULTS SHALL BE OF BUTYL RUBBER-TYPE GASKET CONFORMING TO ASTM C443. ADJUSTING RINGS SHALL NOT EXCEED 8 INCHES.

6. VALVES: ALL VALVES SHALL TURN COUNTER-CLOCKWISE TO OPEN. ALL VALVES 12" OR SMALLER SHALL BE RESILIENT WEDGE GATE TYPE, RATED FOR 250 PSI WORKING PRESSURE AND CONFORM TO AWWA C-509 AND C515 SPECIFICATIONS. ALL FITTINGS AND VALVE END CONNECTIONS SHALL BE MECHANICAL JOINT AND SHALL BE RESTRAINED USING "MEGALUG" OR APPROVED EQUAL RESTRAINING GLANDS. ALL NUTS AND BOLTS USED IN VALVE VAULTS (i.e., EXPOSED PIPING) FOR MECHANICAL JOINTS AND RESTRAINT DEVICES SHALL BE TYPE 304 STAINLESS STEEL. ALL INTERNAL AND EXTERNAL SURFACES SHALL HAVE FUSION BONDED EPOXY COATING. ALL VALVES LARGER THAN 12" SHALL BE BUTTERFLY VALVES. BUTTERFLY VALVES SHALL BE SHORT BODY CONFORMING TO THE AWWA C504 FOR RUBBER SEATED BUTTERFLY VALVES FOR CLASS 150B.

7. CORPORATION STOPS: CORPORATION STOPS SHALL BE SIZED APPROPRIATELY FOR THE INTENDED USE (1 INCH MIN), CONFORMING TO AWWA C-800 AND SHALL INCLUDE BEND TAIL PIECE AND COMPRESSION FITTINGS. TAPPING SADDLES SPECIFICALLY DESIGNED FOR USE WITH PVC PIPE MAY BE REQUIRED IN CONJUNCTION WITH LARGER CORPORATION STOPS. TAPPING SADDLES SHALL BE VINYL COATED STAINLESS STEEL BOLTS. THE BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S TORQUE GUIDELINES. CORPORATION STOPS SHALL BE INSTALLED ON BOTH SIDES OF THE VALVE WITHIN VAULTS (SEE DETAIL).

8. MAXIMUM DEFLECTION AT PIPE AND FITTING JOINTS SHALL NOT EXCEED CURRENT MANUFACTURER'S RECOMMENDATIONS.

9. WATER MAIN FITTINGS (I.E. BENDS, ELBOWS, TEES, REDUCERS, ETC.) MAY NOT BE SPECIFICALLY REFERENCED ON THE PLANS.

10. THRUST BLOCKING SHALL BE INSTALLED ON WATER MAINS AT ALL HORIZONTAL BENDS, TEES, CAPS, VALVES, AND HYDRANTS. FITTINGS THAT ARE DOWNTURNED OR UNABLE TO BE "THRUST-BLOCKED" AGAINST UNDISTURBED SOIL SHALL BE RESTRAINED WITH FIELD-LOK BY U.S. PIPE, MEGA LUGS BY EBAA IRON, OR APPROVED EQUAL. IN ADDITION, EXCLUDING THE JOINTS OF ANY VALVE, BEND, CROSS OR TEE, THE FIRST TWO JOINTS BEFORE AND BEYOND ANY VALVE, BEND, CROSS, OR TEE SHALL BE RESTRAINED WITH FIELD-LOK BY U.S. PIPE, MEGA LUGS BY EBAA IRON, OR APPROVED EQUAL.

11. CONTRACTOR TO VERIFY RIM AND INVERT ELEVATIONS. RIM ELEVATIONS FOR VAULTS SHALL BE ADJUSTED TO MEET FINAL GRADE. THESE ADJUSTMENTS ARE TO BE MADE BY THE CONTRACTOR AND ANY ASSOCIATED COSTS FOR THESE ADJUSTMENTS ARE TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS MAY BE REQUIRED BY THE OWNER OR VILLAGE UPON FINAL INSPECTION OF THE PROJECT. (FINAL GRADES AS MAY BE DETERMINED BY THE OWNER OR VILLAGE AT THE TIME OF FINAL INSPECTION MAY VARY FROM THOSE SHOWN ON THE PLANS.)

12. ALL BOLTS SHALL HAVE A ZINC-NUTS, AND SHALL HAVE STAINLEE STEEL BOLTS WITH A PTFE COATING SUCH AS ROMAC-BLUE.

13. WELDING WILL NOT BE ALLOWED ON ATTACHING CORRPRO ANODES, USE A CLAMP AND COPPER WIRE.

14. NO POLYWRAP IS REQUIRED ON DUCTIL IRON WATER MAIN.

15. WHEN IT IS NECESSARY TO SHUT OFF A WATER MAIN, THE CONTRACTOR SHALL PROVIDE THE VILLAGE'S PUBLIC WORKS DEPARTMENT (AT 847-853-7500) A MINIMUM 48-HOUR ADVANCE NOTICE. THE CONTRACTOR WILL NOT BE ALLOWED TO EXERCISE OR OPERATE ANY VILLAGE WATER MAIN VALVES.

16. THE CONTRACTOR SHALL NOTIFY THE WATER/SEWER SUPERVISOR, MATT OVEREEM, AT (847) 853-7582 48-HOURS PRIOR TO ANY FIRE HYDRANT OR WATER MAIN WORK.

**K. EXCAVATION AND BACKFILL NOTES**

1. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DRAWINGS THOROUGHLY PRIOR TO BEGINNING ANY EXCAVATION AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT ONCE OF ANY DISCREPANCIES.

2. THE CONTRACTOR SHALL BE RESPONSIBLE THAT ALL WORK AREAS SHALL BE PROPERLY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION AND TRAFFIC.

3. THE EXCAVATION FOR STRUCTURE AND/OR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING STRUCTURE/PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY EXCAVATIONS/TRENCHES SHALL BE PROVIDED

BY THE CONTRACTOR AND THE COST OF SUCH SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS TO WHICH THEY PERTAIN.

4. DETAILED DRAWINGS FOR ANY SHEETING AND BRACING SHALL BE PROVIDED FOR REVIEW TO THE OWNER'S REPRESENTATIVE PRIOR TO IMPLEMENTATION OF THE METHOD. A TRENCH BOX SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES AND BE UTILIZED IN ACCORDANCE WITH OSHA STANDARDS.

5. SUITABLE EXCAVATED MATERIALS SUBJECT TO THE REVIEW OF THE OWNER'S REPRESENTATIVE MAY BE USED TO BACKFILL THE EXCAVATED AREAS OF THE SITE, UNLESS SHOWN OTHERWISE.

6. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN REVIEWED BY OWNER.

7. TRENCH (STRUCTURAL) BACKFILL SHALL BE PROVIDED FOR THE FULL DEPTH ABOVE PIPELINES UNDER PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS. THE TRENCH BACKFILL SHALL CONSIST OF A GRANULAR MATERIAL MEETING IDOT, CRUSHED GRAVEL, CRUSHED STONE OR CRUSHED CONCRETE CA-6 GRADATION SPECIFICATIONS. THE TRENCH (STRUCTURAL) BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS AND SHALL EXTEND A MINIMUM OF TWO FEET BEYOND THE EDGE OF PAVEMENT, BACK OF CURB, OR AS OTHERWISE SHOWN OR SPECIFIED HEREIN.

8. BACKFILL IN PIPE TRENCHES IN OPEN AREAS AND LANDSCAPED AREAS SHALL CONSIST OF SUITABLE EXCAVATED MATERIALS PLACED IN LIFTS AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE PER ASTM D 1557.

9. TRENCH BACKFILL WITHIN THE COOK COUNTY R.O.W. PER COOK COUNTY HIGHWAY SHALL MEET THE REQUIREMENTS OF ARTICLE 208.02 OF THE IDOT STANDARD SPECIFICATIONS.

10. TRENCH BACKFILL SHALL BE CONSIDERED INCIDENTAL TO ALL SANITARY AND WATER SERVICE WORK, (FOR NEW SERVICES, REMOVAL OF SERVICES AND SERVICE ADJUSTMENT).

**L. IEPA WATER MAIN PROTECTION NOTES**

WATER MAIN AND SANITARY SEWER SEPARATION SHALL BE IN ACCORDANCE WITH SECTION 41-2.01 "PROTECTION OF WATER MAIN AND WATER SERVICE LINES" OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

**HORIZONTAL SEPARATION:**

1. WATER MAINS SHALL BE LAID AT LEAST TEN (10'-0") FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, OR SEWER SERVICES CONNECTION.

2. WATER MAINS MAY BE LAID CLOSER THAN TEN (10'-0") FEET TO A SEWER LINE WHEN:

A. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10'-0") FEET.

B. THE WATER MAIN INVERT IS AT LEAST EIGHTEEN (18") INCHES ABOVE THE CROWN OF THE SEWER; AND

C. THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.

3. BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET 1. OR 2. ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

**VERTICAL SEPARATION:**

1. A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS EIGHTEEN (18") INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS, OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN (10'-0") FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANCE FROM THE SEWER OR DRAIN.

2. BOTH THE WATER MAINS AND SEWER SHALL BE CONSTRUCTED WITH SEWER PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN:

A. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN 1. ABOVE, OR

B. THE WATER MAIN PASSES UNDER A SEWER OR DRAIN.

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500



CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

				DSGN.	JAL	
				DWN.	MAK	
				CHKD.	LMF	
				SCALE:	20'	
				PLOT DATE:	10/8/2021	
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	CAD USER:	mkoonce	
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:	Default	
FILE NAME	N:\wilmette\180245.00004\Civil\NOT_C3_180245_03.sht					

TITLE: **WSNSP CONTRACT #3 GENERAL NOTES**

PROJ. NO.	180245.0004
DATE:	10/8/2021
SHEET	4 OF 207
DRAWING NO.	<b>4</b>

## UTILITY MATRIX

		STATUS OF UTILITIES AS OF 10/7/2021																							
		AT&T (DISTRIBUTION) (REF. # W15108-1)				AT&T LNS (TCG) TELEPORT COMMUNICATIONS				COMCAST				COMMONWEALTH EDISON (REF. # H20959SKO)				MCI-VERIZON BUSINESS (REF. # 2341-2021)				NICOR GAS (REF. # M11159)			
		ROADWAY	ATLAS REC'D (Y/N)	CONFLICT (Y/N)	RELOCATIO N (Y/N)	COMMENTS	ATLAS REC'D (Y/N)	CONFLICT (Y/N)	RELOCATIO N (Y/N)	COMMENTS	ATLAS REC'D (Y/N)	CONFLICT (Y/N)	RELOCATIO N (Y/N)	COMMENTS	ATLAS REC'D (Y/N)	CONFLICT (Y/N)	RELOCATIO N (Y/N)	COMMENTS	ATLAS REC'D (Y/N)	CONFLICT (Y/N)	RELOCATIO N (Y/N)	COMMENTS			
BASE BID	HUNTER ROAD (N)		NO	NO	WATCH AND PROTECT; STA. 20+53 LT (FACILITY IS 2-4" PC)								YES; RELOCATION OF 600' OF UNDERGROUND WIRE	STA. 17+52 - STA. 23+52; CONFLICT WITH PROPOSED STORM SEWER		NO CONFLICT ANTICIPATED	EXISTING FACILITIES ON NORTH SIDE OF LAKE AVENUE AT HUNTER ROAD		YES; NICOR TO RELOCATE GAS MAIN DUE TO CONFLICTS AND SHALLOW GAS MAIN.	PROPOSED CONFLICTS WITH DRAINAGE IMPROVEMENTS.					
	THORNWOOD AVENUE		NO CONFLICTS ANTICIPATED										POLE TO BE BRACED DURING CONSTRUCTION	BRACE POLE AT STA. 70+17, 20' RT		NO FACILITIES IN THE AREA			YES; NICOR TO RELOCATE GAS MAIN DUE TO CONFLICTS AND SHALLOW GAS MAIN.	PROPOSED CONFLICTS WITH DRAINAGE IMPROVEMENTS.					
	GREENWOOD AVENUE	YES	NO FACILITIES			NONE PROVIDED	NO FACILITIES WITHIN THE PROJECT LIMITS			NONE TO DATE				NO	YES	NO FACILITIES IN THE AREA		YES - SENT TO MILHOUSE ON FOR CONFLICT ANALYSIS	YES; NICOR TO RELOCATE GAS MAIN DUE TO CONFLICTS AND SHALLOW GAS MAIN.	PROPOSED CONFLICTS WITH DRAINAGE IMPROVEMENTS.					
	BEECHWOOD AVENUE		NO	NO	WATCH AND PROTECT; STA. 83+59 (FACILITY IS 400PR COPPER CABLE)								YES; RELOCATION OF 50' OF UNDERGROUND WIRE	STA 70+71; CONFLICT WITH STORM CROSSING		NO FACILITIES IN THE AREA			YES; NICOR TO RELOCATE GAS MAIN DUE TO CONFLICTS AND SHALLOW GAS MAIN.	PROPOSED CONFLICTS WITH DRAINAGE IMPROVEMENTS.					
	21st STREET		NO	NO	WATCH AND PROTECT; STA. 90+36 RT (FACILITY IS 1-4" PC; "CONTRACTOR CAN EASILY BREAK OUT CONDUIT AND RAISE / LOWER CABLE")								YES; RELOCATION OF 100' OF UNDERGROUND WIRE	STA. 92+06; CONFLICT WITH STORM CROSSING		NO FACILITIES IN THE AREA			YES; NICOR TO RELOCATE GAS MAIN DUE TO CONFLICTS AND SHALLOW GAS MAIN.	PROPOSED CONFLICTS WITH DRAINAGE IMPROVEMENTS.					
ALT - OPT 4 BID	HUNTER ROAD (S)		NO CONFLICTS ANTICIPATED										YES; RELOCATION OF 80' OF UNDERGROUND WIRE	STA. 104+70; CONFLICT WITH STORM CROSSING		NO CONFLICT ANTICIPATED	EXISTING FACILITIES ON NORTH SIDE OF LAKE AVENUE AT HUNTER ROAD		YES	GAS MAIN TO BE RELOCATED DUE TO STORM SEWER CONFLICT					
	SCHILLER AVENUE	YES	NO	NO	WATCH AND PROTECT; STA. 100+54 RT (FACILITY IS 1-4" PC)	NONE PROVIDED	NO FACILITIES WITHIN THE PROJECT LIMITS			NONE TO DATE				NO	YES	NO FACILITIES IN THE AREA		YES	NO	NO CONFLICTS ANTICIPATED					
ALT - OPT 2	WASHINGTON AVENUE		YES		WILL REQUIRE FACILITY RELOCATION DUE TO RCBC INSTALLATION	NONE PROVIDED	NO FACILITIES WITHIN THE PROJECT LIMITS			NONE TO DATE	YES	WILL REQUIRE FACILITY RELOCATION DUE TO RCBC INSTALLATION				YES	NO FACILITIES IN THE AREA		YES	YES	WILL REQUIRE FACILITY RELOCATION DUE TO RCBC INSTALLATION				
	HIGHLAND AVENUE		NO			NONE PROVIDED	NO FACILITIES WITHIN THE PROJECT LIMITS			NONE TO DATE						YES	NO FACILITIES IN THE AREA		YES	NO	NO CONFLICTS ANTICIPATED				

\*95% PLANS SENT TO ALL UTILITY COMPANIES ON JULY 30, 2021\*

## PERMIT MATRIX

PERMIT STATUS 10/7/2021				
Permit	Agency	Latest Submittal Date	Permit Number	Receipt Date
SANITARY SEWER PERMIT	MWRD	7/30/2021	21-155	9/25/2021
WATER MAIN CONSTRUCTION PERMIT	IEPA	6/8/2021	1153-FY2021	8/13/2021
COOK COUNTY R.O.W. PERMIT	CCHD	9/27/2021	2021-00319	
DETOUR COMMITTEE	IDOT	OCTOBER 21, 2021 DETOUR COMMITTEE MEETING		
NOI; SWPPP	IEPA	SUBMIT 30 DAYS PRIOR TO COMMENCEMENT		

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 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:



**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	CHKD.
FILE NAME		N:\wilmette\180245.00004\Civil\NOT_C3_180245_04.sht		


TITLE: **WSNSP CONTRACT #3 GENERAL NOTES**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 5 OF 207  
 DRAWING NO. **5**

PAY ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY	ALTERNATE 1 TOTAL	ALTERNATE 2 TOTAL	ALTERNATE 3 TOTAL	TOTAL PROJECT
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	150	0	0	0	150
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	200	0	0	0	200
20101100	TREE TRUNK PROTECTION	EACH	15	5	2	0	22
*20101200	TREE ROOT PRUNING	FOOT	2,475	775	100	0	3,350
*20101200	TREE ROOT PRUNING (AIR KNIFE)	FOOT	425	125	125	0	675
*20101300	TREE CANOPY PRUNING (1 TO 10 INCH DIAMETER)	EACH	38	12	2	0	52
*20101350	TREE CANOPY PRUNING (OVER 10 INCH DIAMETER)	EACH	63	12	3	0	78
20200100	EARTH EXCAVATION	CU YD	47,500	0	0	0	47,500
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	750	225	0	0	975
*21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (140N) (THORNWOOD PARK UNDERDRAIN)	SQ YD	1,000	0	0	0	1,000
*21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (170N) (THORNWOOD PARK BACKFILL)	SQ YD	13,500	0	0	0	13,500
*21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (UNDERCUTTING)	SQ YD	2,250	675	0	0	2,925
21101505	TOPSOIL EXCAVATION AND PLACEMENT (8")	CU YD	1,000	0	0	0	1,000
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1,200	1,000	0	0	2,200
25000110	SEEDING, CLASS 1A	SQ YD	1,000	1,000	0	0	2,000
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	50	0	0	0	50
25000500	PHOPHEROUS FERTILIZER NUTRIENT	POUND	50	0	0	0	50
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	50	0	0	0	50
*25100630	EROSION CONTROL BLANKET	SQ YD	13,000	1,000	0	0	14,000
*25200200	SUPPLEMENTAL WATERING	UNIT	1,350	100	0	0	1,450
*25200200	SUPPLEMENTAL WATERING (FINAL)	UNIT	750	0	0	0	750
28000510	INLET FILTERS	EACH	63	17	5	0	85
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	750	225	0	0	975
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	6,250	3,400	0	0	9,650
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	16,625	5,625	1,125	0	23,375
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	0	150	0	0	150
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	250	0	0	0	250
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	2,500	1,300	0	0	3,800
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-19.0, MIX "D", N50	TON	1,975	655	100	0	2,730
*42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	1,450	250	35	0	1,735
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	19,700	2,000	1,750	0	23,450
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	3,000	600	150	0	3,750
*42400800	DETECTABLE WARNINGS	SQ FT	550	210	0	0	760
*44000100	PAVEMENT REMOVAL	SQ YD	6,400	3,500	0	0	9,900
*44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	6,800	1,750	1,125	0	9,675
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	2,300	1,000	100	0	3,400
*44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	11,900	2,950	250	0	15,100
44000600	SIDEWALK REMOVAL	SQ FT	22,200	1,300	900	0	24,400
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	5,100	575	425	0	6,100
*52200020	TEMPORARY SOIL RETENTION SYSTEM	FOOT	650	0	0	0	650
54010505	PRECAST CONCRETE BOX CULVERTS 5' x 5'	FOOT	0	0	85	0	85
54010602	PRECAST CONCRETE BOX CULVERTS 6' x 2'	FOOT	25	0	0	0	25
54010806	PRECAST CONCRETE BOX CULVERTS 8' x 6'	FOOT	0	0	115	0	115
54215979	REINFORCED CONCRETE PIPE ELBOW 24"	EACH	2	0	0	0	2
54219224	REINFORCED CONCRETE PIPE TEE, 60" PIPE WITH 48" RISER	EACH	3	0	0	0	3
550A0050	STORM SEWERS, CLASS A, TYPE 1 12" (RCP)	FOOT	150	0	150	0	300
550A0410	STORM SEWERS, CLASS A, TYPE 2 24" (RCP)	FOOT	180	0	0	0	180
550A0430	STORM SEWERS, CLASS A, TYPE 2 30" (RCP)	FOOT	800	0	0	0	800
550A0450	STORM SEWERS, CLASS A, TYPE 2 36" (RCP)	FOOT	375	0	0	0	375
550A0470	STORM SEWERS, CLASS A, TYPE 2 42" (RCP)	FOOT	1,000	0	0	0	1,000
550A0480	STORM SEWERS, CLASS A, TYPE 2 48" (RCP)	FOOT	225	1,450	0	0	1,675
550A0500	STORM SEWERS, CLASS A, TYPE 2 60" (RCP)	FOOT	675	0	0	0	675
550A5510	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 48" (38" x 60" RCEP)	FOOT	0	400	0	0	400
550B0410	STORM SEWERS, CLASS B, TYPE 2 24" (PVC)	FOOT	500	0	0	0	500
*55100200	STORM SEWER REMOVAL 6"	FOOT	20	50	0	0	70
*55100300	STORM SEWER REMOVAL 8"	FOOT	1,500	225	0	0	1,725
*55100400	STORM SEWER REMOVAL 10"	FOOT	550	0	10	0	560
*55100500	STORM SEWER REMOVAL 12"	FOOT	500	0	120	0	620
*55100700	STORM SEWER REMOVAL 15"	FOOT	50	0	0	0	50
*55100900	STORM SEWER REMOVAL 18"	FOOT	50	0	5	0	55
*55101100	STORM SEWER REMOVAL 21"	FOOT	500	0	0	0	500
*55101200	STORM SEWER REMOVAL 24"	FOOT	750	0	0	0	750
*55101600	STORM SEWER REMOVAL 36"	FOOT	750	0	0	0	750
*55101900	STORM SEWER REMOVAL 48"	FOOT	10	0	0	0	10
*56103000	DUCTILE IRON WATER MAIN 6"	FOOT	250	75	0	0	325
*56103100	DUCTILE IRON WATER MAIN 8"	FOOT	0	1,425	0	0	1,425
*56106300	ADJUSTING WATER MAIN 6"	FOOT	400	150	0	0	550
*56106400	ADJUSTING WATER MAIN 8"	FOOT	550	100	0	0	650
*56106600	ADJUSTING WATER MAIN 12"	FOOT	50	25	0	0	75
*56300300	ADJUSTING WATER SERVICE LINES	EACH	75	5	1	0	81
*56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1	2	0	0	3
*56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	0	5	0	0	5
60108106	PIPE UNDERDRAINS, TYPE 1, 6"	FOOT	1,250	0	0	0	1,250
60108108	PIPE UNDERDRAINS, TYPE 1, 8"	FOOT	200	0	0	0	200
60108114	PIPE UNDERDRAINS, TYPE 1, 12"	FOOT	330	0	0	0	330
60108500	PIPE UNDERDRAINS 12" (SPECIAL) (NON-PERFORATED)	FOOT	1,350	0	0	0	1,350
*60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	0	1	0	0	1
*60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, EJ 7010 FRAME M3 GRATE	EACH	9	4	0	0	13

\* INDICATES SPECIAL PROVISION

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
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CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

1	7/28/21	REVISED PER MWRD COMMENTS	MAK	PLT DATE:	10/8/2021
NO.	DATE	NATURE OF REVISION	CHKD.	CAD USER:	mkoonce
FILE NAME	N:\wilmette\180245.00004\Civil\500_C3_180245_01.sht				


TITLE: **WSNSP CONTRACT #3  
SUMMARY OF QUANTITIES**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 6 OF 207  
 DRAWING NO. **6**

PAY ITEM #	ITEM DESCRIPTION	UNIT	BASE BID	ALTERNATE 1	ALTERNATE 2	ALTERNATE 3	TOTAL
			TOTAL	TOTAL	TOTAL	TOTAL	PROJECT
			QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
*60206905	CATCH BASINS, TYPE C,TYPE 1 FRAME, OPEN LID	EACH	3	0	0	0	3
*60206905	CATCH BASINS, TYPE C, EJ 7010 FRAME M3 GRATE	EACH	7	0	0	0	7
*60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	4	0	7	0	11
*60218300	MANHOLES, TYPE A, 4'-DIAMETER, EJ 7010 FRAME M3 GRATE	EACH	2	0	0	0	2
*60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	0	0	0	2
*60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	14	0	2	0	16
*60221000	MANHOLES, TYPE A, 5'-DIAMETER, EJ 7010 FRAME M3 GRATE	EACH	2	0	0	0	2
*60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	8	5	0	0	13
*60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	0	0	0	2
*60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	6	0	0	11
*60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	0	0	0	3
*60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	3	0	0	0	3
*60234200	INLETS, TYPE A, EJ 7010 FRAME M3 GRATE	EACH	36	6	0	0	42
*60234200	INLETS, TYPE A, EJ 6527 GRATE	EACH	0	1	0	0	1
*60240210	INLETS, 3'-DIAMETER, TYPE B, TYPE 1 FRAME, OPEN LID	EACH	3	0	0	0	3
*60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	0	3	0	0	3
*60265700	VALVE VAULTS TO BE ADJUSTED, SPECIAL	EACH	17	1	1	0	19
60602800	CONCRETE GUTTER, TYPE B	FOOT	1,000	340	0	0	1,340
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250	50	0	0	300
66900205	SPECIAL WASTE DISPOSAL	CU YD	250	50	0	0	300
66900450	SPECIAL WASTE PLANS AND REPORT (BASE)	L SUM	1	0	0	0	1
66900450	SPECIAL WASTE PLANS AND REPORT (ALT 1)	L SUM	0	1	0	0	1
66900530	SOIL DISPOSAL ANALYSIS	EACH	4	2	0	0	6
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	0	0	0	12
67100100	MOBILIZATION (BASE)	L SUM	1	0	0	0	1
67100100	MOBILIZATION (ALT 1)	L SUM	0	1	0	0	1
67100100	MOBILIZATION (ALT 2)	L SUM	0	0	1	0	1
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	100	75	0	0	175
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5,000	1,700	0	0	6,700
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,125	0	0	0	1,125
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	100	75	0	0	175
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	550	300	0	0	850
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	325	100	0	0	425
78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	50	50	0	0	100
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	50	50	0	0	100
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	100	100	0	0	200
78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	25	25	0	0	50
*81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	0	25	0	0	25
*81400200	HEAVY-DUTY HANDHOLE	EACH	0	1	0	0	1
*85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	0	2	0	0	2
*87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	0	416	0	0	416
*88600100	DETECTOR LOOP, TYPE I	FOOT	0	358	0	0	358
*89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	0	1	0	0	1
*89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	0	305	0	0	305
*89502380	REMOVE EXISTING HANDHOLE	EACH	0	1	0	0	1
*X8100105	CONDUIT SPLICE	EACH	0	1	0	0	1
*Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	0	4	0	0	4
A2007820	TREE, TILIA AMERICANA(AMERICAN LINDEN/BASSWOOD), 2 1/2" CALIPER, BALLED AND BURLAPPED	EACH	1	0	0	0	1
B2000900	TREE, AMELANCHIER ARBOREA (DOWNY SERVICEBERRY), 6' HEIGHT,BALLED AND BURLAPPED	EACH	3	0	0	0	3
C2001324	SHRUB, CLETHRA ALNIFOLIA (SUMMERSWEET CLETHRA), 2' HEIGHT,BALLED AND BURLAPPED	EACH	8	0	0	0	8
C2003930	SHRUB, ILEX VERTICILLATA 'JIM DANDY' (JIM DANDY WINTERBERRY), 2' HEIGHT,BALLED AND BURLAPPED	EACH	5	0	0	0	5
C2003920	SHRUB, ILEX VERTICILLATA 'RED SPRITE' (RED SPRITE WINTERBERRY), 24" HEIGHT CONTAINER	EACH	19	0	0	0	19
C2011265	SHRUB, THUJA OCCIDENTALIS (EMERALD ARBORVITAE), 4' HEIGHT, BALLED AND BURLAPPED	EACH	14	0	0	0	14
C2012748	SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 4' HEIGHT,BALLED AND BURLAPPED	EACH	4	0	0	0	4
C2C043G5	SHRUB, LINDERA BENZOIN (SPICEBUSH), CONTAINER GROWN, 5-GALLON	EACH	4	0	0	0	4
C2C048G5	SHRUB, PHYSOCARPUS OPULIFOLIUS (COMMON NINEBARK), CONTAINER GROWN, 5-GALLON	EACH	9	0	0	0	9
D2001572	EVERGREEN, JUNIPERUS VIRGINIANA (EASTERN RED CEDAR), 6' HEIGHT, BALLED AND BURLAPPED	EACH	14	0	0	0	14
D2002986	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 8' HEIGHT, BALLED AND BURLAPPED	EACH	1	0	0	0	1
K0013020	PERENNIAL PLANTS, PRAIRIE TYPE, GALLON POT (AMORPHA CANESCENS, LEAD PLANT)	UNIT	24	0	0	0	24
K0013020	PERENNIAL PLANTS, PRAIRIE TYPE, GALLON POT (ANDROPOGON GERARDII, BIG BLUE STEM GRASS)	UNIT	5	0	0	0	5
K0013020	PERENNIAL PLANTS, PRAIRIE TYPE, GALLON POT (EUTROCHUM PURPUREUM, JOE PIE WEED)	UNIT	6	0	0	0	6
K0013020	PERENNIAL PLANTS, PRAIRIE TYPE, GALLON POT (PANICUM VIRGATUM, SWITCHGRASS)	UNIT	3	0	0	0	3
K0013020	PERENNIAL PLANTS, PRAIRIE TYPE, GALLON POT (VERONICASTRUM VIRGINICUM, CULVERS ROOT)	UNIT	3	0	0	0	3
K1005481	SHREDDED BARK MULCH 3"	SQ YD	115	0	0	0	115
*X0324878	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	22	27	0	0	49
*X0327576	TEMPORARY PATCHING	SQ YD	9,000	0	0	0	9,000
*X1200140	PRECAST CONCRETE BOX CULVERT (SPECIAL - 4' x 6')	FOOT	575	0	0	0	575
*X1200214	JUNCTION CHAMBER NO. 2 (10' x 8', TYPE 1 FRAME, CLOSED LID)	EACH	1	0	0	0	1
*X2080250	TRENCH BACKFILL, SPECIAL	CU YD	13,500	5,600	500	0	19,600

\* INDICATES SPECIAL PROVISION

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500



CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040


NO.	DATE	REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
		NATURE OF REVISION	CHKD.	MODEL:
		FILE NAME		

TITLE: **WSNSP CONTRACT #3  
SUMMARY OF QUANTITIES**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 7 OF 207  
 DRAWING NO. **7**

PAY ITEM #	ITEM DESCRIPTION	UNIT	BASE BID	ALTERNATE 1	ALTERNATE 2	ALTERNATE 3	TOTAL
			TOTAL	TOTAL	TOTAL	TOTAL	PROJECT
			QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
*X2520700	SODDING, SPECIAL	SQ YD	6,200	2,750	500	0	9,450
*X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	85	28	0	0	113
*X4023000	TEMPORARY ACCESS (ROAD)	EACH	4	3	0	0	7
*X5610004	DUCTILE IRON WATER MAIN FITTINGS	POUND	750	3,000	0	0	3,750
*X5610700	WATER MAIN REMOVAL	FOOT	125	100	0	0	225
*X6061700	COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL - VARIABLE HEIGHT)	FOOT	0	100	0	0	100
*X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL) (BASE)	L SUM	1	0	0	0	1
*X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL) (ALT 1)	L SUM	0	1	0	0	1
*X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL) (ALT 2)	L SUM	0	0	1	0	1
*X7010238	CHANGEABLE MESSAGE SIGN, SPECIAL	CAL MO	12	2	0	0	14
*X7810300	RECESSED REFLECTIVE PAVEMENT MARKER (HMA)	EACH	0	10	0	0	10
*XX003668	PRECONSTRUCTION VIDEO TAPING (BASE)	L SUM	1	0	0	0	1
*XX003668	PRECONSTRUCTION VIDEO TAPING (ALT 1)	L SUM	0	1	0	0	1
*XX003668	PRECONSTRUCTION VIDEO TAPING (ALT 2)	L SUM	0	0	1	0	1
*XX003885	IRRIGATION SYSTEM COMPLETE	L SUM	0	0	0	1	1
*Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	1,125	650	75	0	1,850
*Z0007430	TEMPORARY SIDEWALK	SQ FT	3,000	100	0	0	3,100
*Z0013798	CONSTRUCTION LAYOUT (BASE)	L SUM	1	0	0	0	1
*Z0013798	CONSTRUCTION LAYOUT (ALT 1)	L SUM	0	1	0	0	1
*Z0013798	CONSTRUCTION LAYOUT (ALT 2)	L SUM	0	0	1	0	1
*Z0038119	PORTLAND CEMENT CONCRETE SURFACE REMOVAL 1 1/2"	SQ YD	8,000	0	0	0	8,000
*Z0056644	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 8"	FOOT	40	0	0	0	40
*Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	660	275	75	0	1,010
*Z0056650	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 15"	FOOT	75	0	0	0	75
*Z0056652	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 18"	FOOT	50	0	0	0	50
*Z0056670	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 18"	FOOT	15	0	0	0	15
*Z0056672	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 24"	FOOT	375	0	0	0	375
*Z0055905	TEMPORARY CONSTRUCTION FENCE	FOOT	400	0	0	0	400
*Z0062456	TEMPORARY PAVEMENT	SQ YD	250	0	0	0	250
*Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	0	1	0	0	1
*NA1	AGGREGATE STRUCTURAL BACKFILL	CU YD	7,500	0	0	0	7,500
*NA2	AS-BUILT DRAWINGS (BASE)	L SUM	1	0	0	0	1
*NA3	AS-BUILT DRAWINGS (ALT 1)	L SUM	0	1	0	0	1
*NA4	AS-BUILT DRAWINGS (ALT 2)	L SUM	0	0	1	0	1
*NA5	AMENDED TOPSOIL, 8" (WITHOUT PERMANENT IRRIGATION)	CU YD	2,825	0	0	0	2,825
*NA6	AMENDED TOPSOIL, 8" (WITH PERMANENT IRRIGATION)	CU YD	2,825	0	0	0	2,825
*NA7	BRICK DRIVEWAY REPLACEMENT	SQ YD	200	50	10	0	260
*NA8	BRICK PAVER REMOVAL AND REINSTALLATION, SPECIAL	SQ FT	100	0	0	0	100
*NA9	CLASS B PATCHES, 12" (SPECIAL)	SQ YD	0	400	0	0	400
*NA10	CLASS C PATCHES, 6" (SPECIAL)	SQ YD	4,050	0	0	0	4,050
*NA11	CLASS D PATCHES, 6" (SPECIAL)	SQ YD	1,525	1,175	375	0	3,075
*NA12	CLEANOUT	EACH	20	0	0	0	20
*NA13	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12	FOOT	11,950	4,600	250	0	16,800
*NA14	CONFLICT MANHOLE, 4'-DIAMETER, TYPE 1 FRAME CLOSED LID	EACH	0	0	1	0	1
*NA15	CONFLICT MANHOLE, 6'-DIAMETER, TYPE 1 FRAME CLOSED LID	EACH	1	0	0	0	1
*NA16	DRILLED SEED	SQ YD	4,000	0	0	0	4,000
*NA17	EVERGREEN, PICEA GLAUCA 'WEEPING' (WEEPING WHITE SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED	EACH	1	0	0	0	1
*NA18	EXISTING VILLAGE UTILITY REPLACEMENT ALLOWANCE	DOLLAR	100,000	25,000	0	0	125,000
*NA19	FENCE TO BE REMOVED AND RE-ERECTED	FOOT	70	0	30	0	100
*NA20	GATE, 40" WIDTH (DOUBLE)	EACH	2	0	0	0	2
*NA21	GATE VALVE 6" WITH VAULT, 48" DIAMETER	EACH	1	0	0	0	1
*NA22	GROOVING FOR RECESSED PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	100	75	0	0	175
*NA23	GROOVING FOR RECESSED PAVEMENT MARKING - LINE 4"	FOOT	5,000	1,700	0	0	6,700
*NA24	GROOVING FOR RECESSED PAVEMENT MARKING - LINE 6"	FOOT	1,125	0	0	0	1,125
*NA25	GROOVING FOR RECESSED PAVEMENT MARKING - LINE 8"	FOOT	100	75	0	0	175
*NA26	GROOVING FOR RECESSED PAVEMENT MARKING - LINE 12"	FOOT	550	300	0	0	850
*NA27	GROOVING FOR RECESSED PAVEMENT MARKING - LINE 24"	FOOT	325	100	0	0	425
*NA28	HYDROSEED	SQ YD	12,300	0	0	0	12,300
*NA29	INFIELD MIX	SQ YD	2,500	0	0	0	2,500
*NA30	ITEMS ORDERED BY THE ENGINEER	DOLLAR	175,000	40,000	10,000	0	225,000
*NA31	LEVELING BINDER (MACHINE METHOD), N50 (IL 9.5mm)	TON	690	175	50	0	915
*NA32	LIGHTING SYSTEM REPAIRS	DOLLAR	25,000	5,000	0	0	30,000
*NA33	LOCATING UNDERGROUND UTILITY	EACH	40	10	0	0	50
*NA34	MANHOLES, TYPE A, 10'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	0	0	0	2
*NA35	NEW FRAME AND LIDS	EACH	13	7	2	0	22
*NA36	POST-CONSTRUCTION SEWER TELEVISION	FOOT	9,000	2,150	0	0	11,150
*NA37	PRECAST CONCRETE RISER, 24" WITH TYPE 1 FRAME, CLOSED LID	EACH	0	0	2	0	2
*NA38	PRECONSTRUCTION SEWER TELEVISION	FOOT	17,500	1,750	0	0	19,250
*NA39	REINFORCED CONCRETE PIPE ELBOW 60"	EACH	6	0	0	0	6
*NA40	REINFORCED CONCRETE PIPE TEE, 6' X 4' WITH 48" RISER	EACH	2	0	0	0	2
*NA41	SANITARY SERVICE CLEANOUT	EACH	50	5	3	0	58
*NA42	SANITARY SERVICE CONNECTION	EACH	100	18	1	0	119
*NA43	SANITARY SEWER, PVC (D3034) SDR 26, 10"	FOOT	2,400	0	0	0	2,400
*NA44	SANITARY SEWER SERVICE REMOVAL AND REPLACEMENT	FOOT	1,500	275	55	0	1,830
*NA45	SANITARY SEWER SERVICE REMOVAL AND REPLACEMENT (TUNNELED)	FOOT	250	50	0	0	300
*NA46	SANITARY SEWER REMOVAL, 8"	FOOT	10	0	0	0	10
*NA47	SANITARY SEWER REMOVAL, 10"	FOOT	2,250	0	0	0	2,250
*NA48	SANITARY SEWER MANHOLE, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6	0	0	0	6
*NA49	SANITARY SEWER MANHOLE, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID (DROP)	EACH	4	0	0	0	4

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1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	CHKD.
FILE NAME		N:\wilmette\180245.00004\Civil\500_C3_180245_01.shx		

TITLE: **WSNSP CONTRACT #3  
SUMMARY OF QUANTITIES**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 8 OF 207  
DRAWING NO. **8**



PAY ITEM #	ITEM DESCRIPTION	UNIT	BASE BID	ALTERNATE 1	ALTERNATE 2	ALTERNATE 3	TOTAL
			TOTAL	TOTAL	TOTAL	TOTAL	PROJECT
			QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
*NA50	SANITARY SEWER MANHOLE, TYPE A, 4'-DIAMETER, R-1916-C2 FRAME AND LID (BOLTED)	EACH	4	0	0	0	4
*NA51	SANITARY SEWER MANHOLE, TYPE A, 4'-DIAMETER, R-1916-C2 FRAME AND LID (DROP) (BOLTED)	EACH	1	0	0	0	1
*NA52	SANITARY SEWER MANHOLE, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID (DROP)	EACH	2	0	0	0	2
*NA53	SITE MONITORING CAMERA	L SUM	1	0	0	0	1
*NA54	SPRINKLER SYSTEM REPAIRS	DOLLAR	25,000	25,000	0	0	50,000
*NA55	STABILIZED CONSTRUCTION ENTRANCE (WOOD MATTING)	SQ YD	750	0	0	0	750
*NA56	STORM SERVICE CLEANOUT	EACH	50	5	3	0	58
*NA57	STORM SERVICE CONNECTION	EACH	92	16	1	0	109
*NA58	STORM SEWER SERVICE REMOVAL AND REPLACEMENT	FOOT	1,450	250	55	0	1,755
*NA59	STORM SEWER SERVICE REMOVAL AND REPLACEMENT (TUNNELED)	FOOT	250	50	0	0	300
*NA60	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 48" (D.I.P)	FOOT	300	0	0	0	300
*NA61	STORMTRAP INSTALLATION	L SUM	1	0	0	0	1
*NA62	STORMTRAP RISER MANHOLE WITH EAST TYPE 1 FRAME AND GRATE	EACH	2	0	0	0	2
*NA63	STRUCTURES TO BE ADJUSTED	EACH	25	4	2	0	31
*NA64	STRUCTURES TO BE ADJUSTED, SPECIAL	EACH	31	12	4	0	47
*NA65	STRUCTURES TO BE RECONSTRUCTED	EACH	7	3	1	0	11
*NA66	STRUCTURES TO BE REMOVED	EACH	67	14	0	0	81
*NA67	SURGE SUPPRESSOR, INSTALLATION	EACH	1	1	0	0	2
*NA68	TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION	FOOT	8,100	3,250	500	0	11,850
*NA69	TEMPORARY CONSTRUCTION FENCE, 6' (CHAIN LINK WITH FABRIC)	FOOT	1,000	0	0	0	1,000
*NA70	TEMPORARY CONSTRUCTION FENCE, 10' (CHAIN LINK WITH FABRIC)	FOOT	1,750	0	0	0	1,750
*NA71	TIDEFLEX CHECK VALVE, 6"	EACH	2	0	0	0	2
*NA72	TIDEFLEX CHECK VALVE, 10"	EACH	0	0	1	0	1
*NA73	TIDEFLEX CHECK VALVE, 12"	EACH	1	0	3	0	4
*NA74	TIDEFLEX CHECK VALVE, 24"	EACH	1	0	0	0	1
*NA75	TRAFFIC CONTROL AND PROTECTION (PEDESTRIAN ACCESS)	L SUM	1	0	0	0	1
*NA76	TRAFFIC CONTROL SUPERVISOR - FLAGGER	HOURLY	1,250	250	0	0	1,500
*NA77	TRENCH BACKFILL, FA-1	CU YD	0	30	0	0	30
*NA78	TURFSTONE PAVER ACCESS DRIVE	SQ FT	775	0	0	0	775
*NA79	UNDERDRAIN, 6" MULTIFLOW	FOOT	4,250	0	0	0	4,250
*NA80	VIBRATION MONITORING	L SUM	1	0	0	0	1
*NA81	WATER MAIN CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) - DISCONNECT AND CAP	EACH	0	4	0	0	4
*NA82	WATER MAIN LINE STOP, 6"	EACH	0	2	0	0	2
*NA83	WATER MAIN LINE STOP, 8"	EACH	0	1	0	0	1
*NA84	WATER MAIN LINE STOP, 12"	EACH	0	1	0	0	1
*NA85	WATER MAIN REPAIRS	DOLLAR	25,000	5,000	0	0	30,000
*NA86	WATER SERVICE REPLACEMENT, LONG SIDE	EACH	0	13	0	0	13
*NA87	WATER SERVICE REPLACEMENT, SHORT SIDE	EACH	0	15	0	0	15
*NA88	WATER VALVE 8"	EACH	0	3	0	0	3
02 41 52/01	REMOVE SKATING RINK LIGHTING UNIT FOUNDATION	EACH	2	0	0	0	2
02 41 52/02	REMOVE SKATING RINK LIGHTING UNIT, SALVAGE	EACH	2	0	0	0	2
03 30 00/01	NATURAL GAS STANDBY GENERATOR REINFORCED PCC EQUIPMENT PAD	EACH	1	0	0	0	1
03 30 00/02	PUMP CONTROL PANEL REINFORCED PCC EQUIPMENT PAD	EACH	1	0	0	0	1
03 30 00/03	IRRIGATION PUMP STATION REINFORCED PCC EQUIPMENT PAD	EACH	0	0	0	1	1
03 30 00/04	IRRIGATION PUMP STATION POWER DISTRIBUTION PANEL REINFORCED PCC EQUIPMENT PAD	EACH	0	0	0	1	1
03 30 00/05	RPZ/WATER METER ENCLOSURE REINFORCED PCC EQUIPMENT PAD	EACH	0	0	0	1	1
03 41 00/01	STORMWATER PUMP STATION WET WELL	EACH	1	0	0	0	1
03 41 00/02	STORMWATER PUMP STATION DISCHARGE STRUCTURE	EACH	1	0	0	0	1
03 41 00/03	STORMWATER JUNCTION CHAMBER NO. 1	EACH	1	0	0	0	1
26 05 19/01	LOW-VOLTAGE ELECTRICAL CONDUCTORS AND CABLES	L SUM	1	0	0	0	1
26 05 26/01	GROUNDING AND BONDING OF ELECTRICAL SYSTEMS	L SUM	1	0	0	0	1
26 05 33/01	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS	L SUM	1	0	0	0	1
26 27 16/01	PUMP CABLE JUNCTION BOX	EACH	1	0	0	0	1
26 27 16/02	IRRIGATION PUMP STATION POWER DISTRIBUTION PANEL	EACH	0	0	0	1	1
26 29 20/01	PUMP CONTROL PANEL	EACH	1	0	0	0	1
26 32 13/01	NATURAL GAS STANDBY GENERATOR	EACH	1	0	0	0	1
26 32 13/02	NATURAL GAS PIPING, VALVES, AND FITTINGS	L SUM	1	0	0	0	1
26 36 00/01	AUTOMATIC TRANSFER SWITCH	EACH	1	0	0	0	1
26 56 00/01	SKATING RINK LIGHTING UNIT FOUNDATION	EACH	2	0	0	0	2
26 56 00/02	REINSTALL SKATING RINK LIGHTING UNIT	EACH	2	0	0	0	2
26 60 20/01	PRIMARY ELECTRIC SERVICE AND DISTRIBUTION	L SUM	1	0	0	0	1
26 60 20/02	STORMWATER PUMP STATION SECONDARY ELECTRIC SERVICE AND DISTRIBUTION	L SUM	1	0	0	0	1
26 60 20/03	IRRIGATION PUMP STATION SECONDARY ELECTRIC SERVICE AND DISTRIBUTION	L SUM	0	0	0	1	1
27 51 25/01	SCADA SYSTEM	L SUM	1	0	0	0	1
31 20 00/01	EARTH EXCAVATION (STORMWATER PUMP STATION WET WELL, DISCHARGE STRUCTURE, JUNCTION CHAMBER)	CU YD	1,075	0	0	0	1,075
31 23 19/01	DEWATERING (STORMWATER PUMP STATION WET WELL, DISCHARGE STRUCTURE, JUNCTION CHAMBER)	L SUM	1	0	0	0	1
31 23 19/02	DEWATERING (STORMTRAP)	L SUM	1	0	0	0	1
33 14 17/01	SITE WATER UTILITY SERVICE LATERAL, COMPLETE	L SUM	0	0	0	1	1
33 41 00/01	LOW FLOW SUBMERSIBLE PUMP DISCHARGE PIPING AND FITTINGS (6")	L SUM	1	0	0	0	1
33 41 00/02	HIGH FLOW SUBMERSIBLE PUMP DISCHARGE PIPING AND FITTINGS (10")	L SUM	1	0	0	0	1
33 41 00/03	DUCKBILL CHECK VALVE, LOW FLOW SUBMERSIBLE PUMP (6")	EACH	1	0	0	0	1
33 41 00/04	DUCKBILL CHECK VALVE, HIGH FLOW SUBMERSIBLE PUMP (10")	EACH	2	0	0	0	2
33 42 00/01	LOW FLOW SUBMERSIBLE PUMP AND ACCESSORIES	EACH	1	0	0	0	1
33 42 00/02	HIGH FLOW SUBMERSIBLE PUMP AND ACCESSORIES	EACH	2	0	0	0	2
	ADDITIONAL INSURANCE PREMIUM - Commercial General Liability	L SUM	1	0	0	0	1
	ADDITIONAL INSURANCE PREMIUM - Umbrella	L SUM	1	0	0	0	1
	ADDITIONAL INSURANCE PREMIUM - Builders Risk	L SUM	1	0	0	0	1
	ADDITIONAL INSURANCE PREMIUM - Owners & Contractors Protective Liability	L SUM	1	0	0	0	1

\*INDICATES SPECIAL PROVISION

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
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CLIENT:

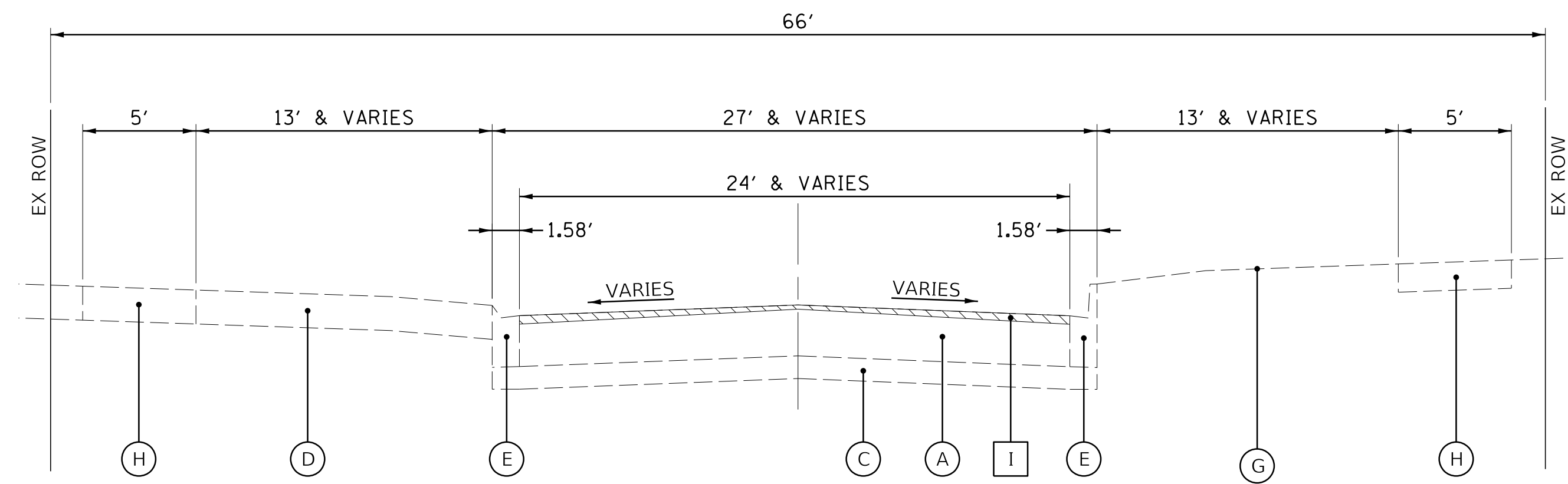


**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

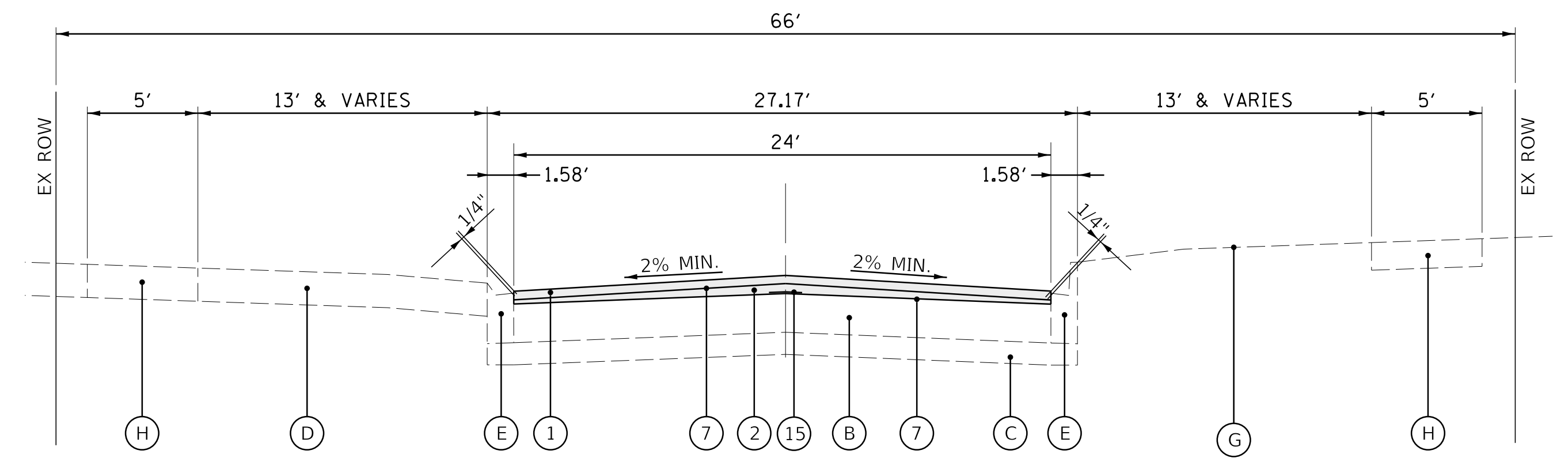
NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
		NATURE OF REVISION		
FILE NAME	N:\wilmette\180245.00004\Civil\500_C3_180245_01.sht			

TITLE: **WSNSP CONTRACT #3  
SUMMARY OF QUANTITIES**

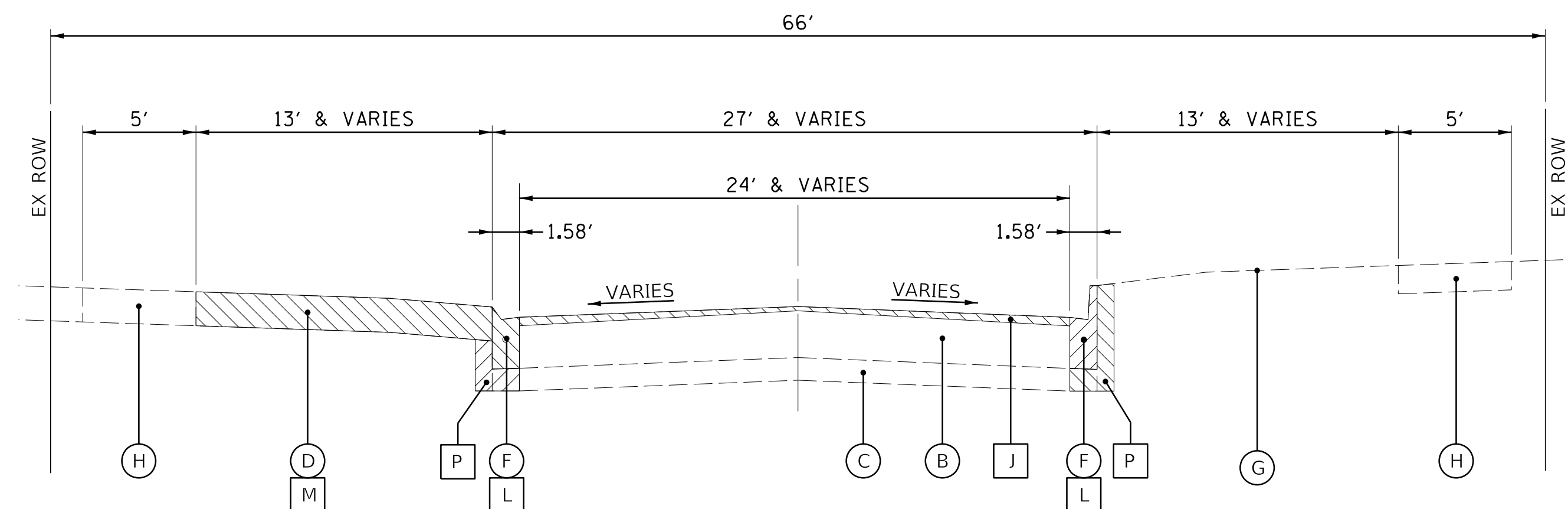
PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 9 OF 207  
 DRAWING NO. **9**



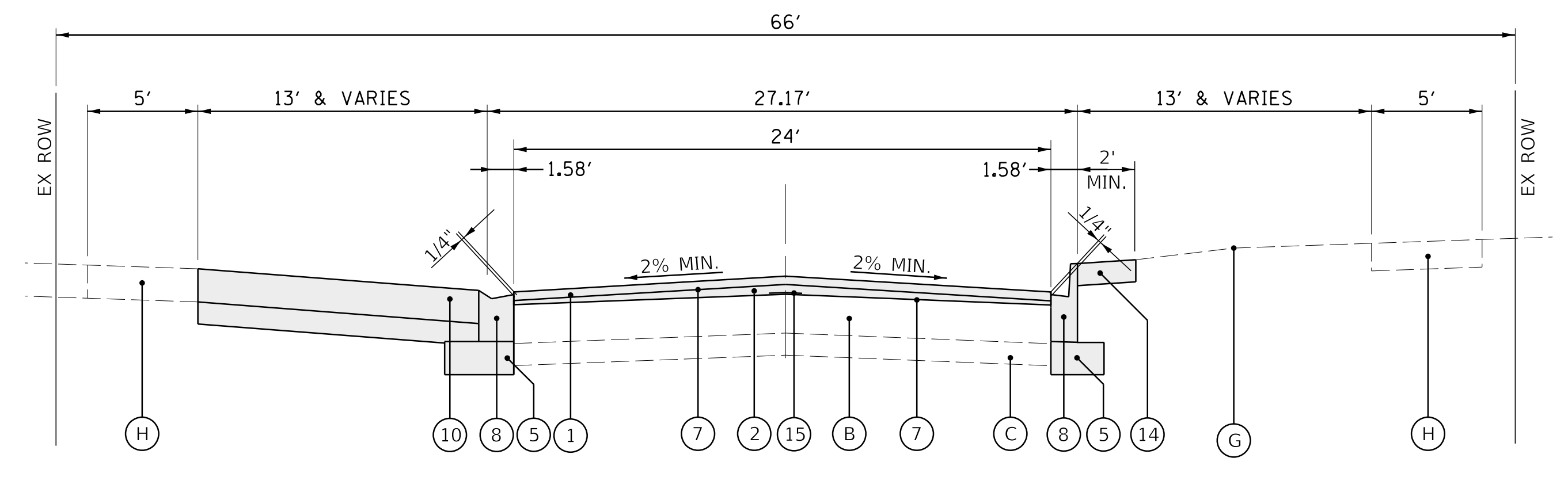
**EXISTING TYPICAL SECTION**  
 HUNTER ROAD (STA 4+02 TO STA 15+88)  
 HUNTER ROAD (STA 23+99 TO STA 29+73)



**PROPOSED TYPICAL SECTION**  
 HUNTER ROAD (STA 4+02 TO STA 15+88)  
 HUNTER ROAD (STA 23+99 TO STA 29+73)



**EXISTING TYPICAL SECTION**  
 HUNTER ROAD (STA 15+88 TO STA 17+00)



**PROPOSED TYPICAL SECTION**  
 HUNTER ROAD (STA 15+88 TO STA 17+00)

**LEGEND**

- |  |   |
|--|---|
| <p><b>EXISTING</b></p> <ul style="list-style-type: none"> <li>(A) EXISTING HOT-MIX ASPHALT PAVEMENT ***</li> <li>(B) EXISTING PCC PAVEMENT ***</li> <li>(C) EXISTING AGGREGATE BASE COURSE ***</li> <li>(D) EXISTING DRIVEWAY</li> <li>(E) EXISTING CURB AND GUTTER</li> <li>(F) EXISTING MONOLITHIC CURB AND GUTTER</li> <li>(G) EXISTING TOPSOIL AND SODDING</li> <li>(H) EXISTING PCC SIDEWALK</li> <li>(I) HMA SURFACE REMOVAL, 2"</li> <li>(J) PCC SURFACE REMOVAL, 1 1/2"</li> <li>(K) PAVEMENT REMOVAL (20")</li> <li>(L) COMBINATION CURB AND GUTTER REMOVAL**</li> <li>(M) DRIVEWAY PAVEMENT REMOVAL**</li> <li>(N) SIDEWALK REMOVAL**</li> <li>(O) EXCAVATION FOR UTILITY INSTALLATION</li> <li>(P) EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL)</li> <li>(Q) REMOVAL AND DISPOSAL OF UNSUITABLE MAT.**</li> <li>(R) EXISTING PCC BASE COURSE</li> <li>[Hatched] ITEM TO BE REMOVED</li> <li>** AS DETERMINED BY THE ENGINEER</li> <li>*** SEE EXISTING PAVEMENT THICKNESS TABLE SHEET 16</li> </ul> | <p><b>PROPOSED</b></p> <ul style="list-style-type: none"> <li>(1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"</li> <li>(2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"</li> <li>(3) HMA BINDER COURSE, IL-19.0, N50, 6 1/2"</li> <li>(4) AGGREGATE BASE COURSE, TYPE B, 12"</li> <li>(5) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)</li> <li>(6) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)</li> <li>(7) BITUMINOUS MATERIALS (TACK COAT)</li> <li>(8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12</li> <li>(9) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)</li> <li>(10) DRIVEWAY PAVEMENT</li> <li>(11) CLASS B PATCH, SPECIAL, 12" (WITH REBAR PER IDOT STD.)</li> <li>(12) CLASS B PATCH, SPECIAL, 6"</li> <li>(13) TRENCH BACKFILL FROM UTILITY INSTALLATION</li> <li>(14) SODDING, SPECIAL</li> <li>(15) STRIP REFLECTIVE CRACK CONTROL TREATMENT</li> <li>(16) AGGREGATE BASE REPAIR AND PREPARATION OF BASE</li> <li>(17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION</li> <li>(18) AGGREGATE SUBGRADE IMPROVEMENT, 12"</li> <li>(19) HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 2"</li> <li>(20) PCC BASE COURSE, 10"</li> <li>(21) CLASS D PATCH, SPECIAL, 6"</li> <li>(22) TRENCH BACKFILL FA-6 SAND</li> </ul> |
|--|---|

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
<b>PAVEMENT RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR
<b>PAVEMENT RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6 1/2" (2 LIFTS)	4% @ 50 GYR
<b>CLASS D PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" (2 LIFTS)	4% @ 50 GYR
<b>DRIVEWAY PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 3"	4% @ 50 GYR
<b>TEMPORARY PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	4% @ 50 GYR
<b>LAKE AVENUE RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N70, 2"	4% @ 50 GYR

NOTES:  
 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.  
 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.  
 3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

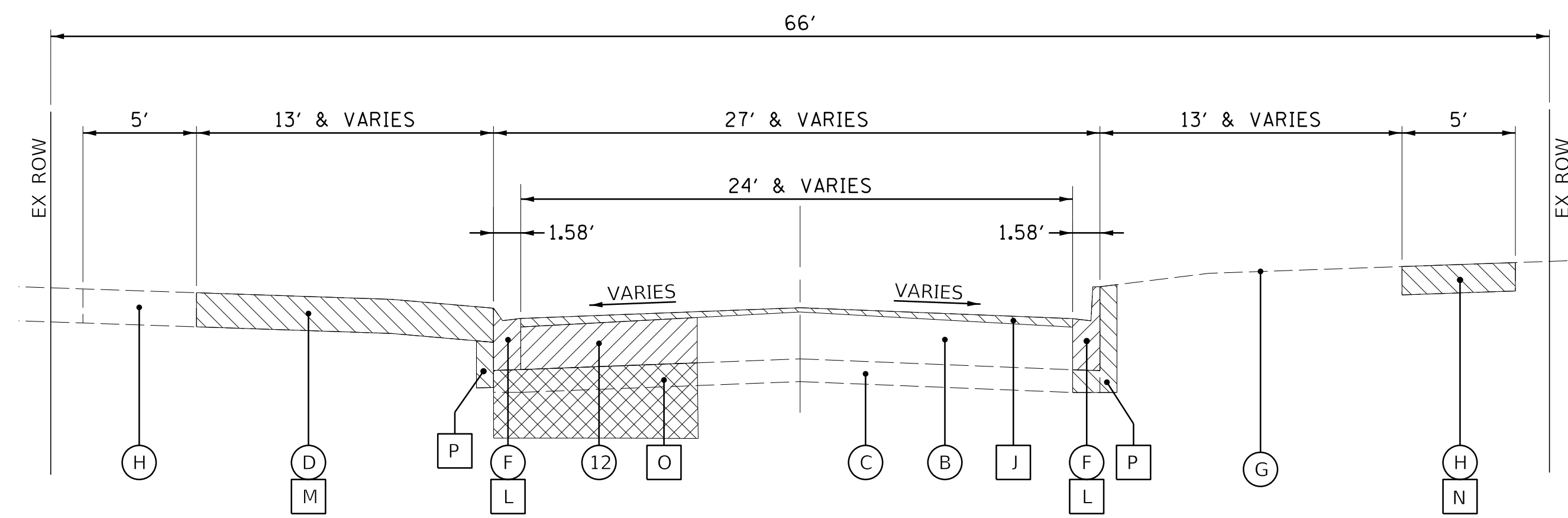
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

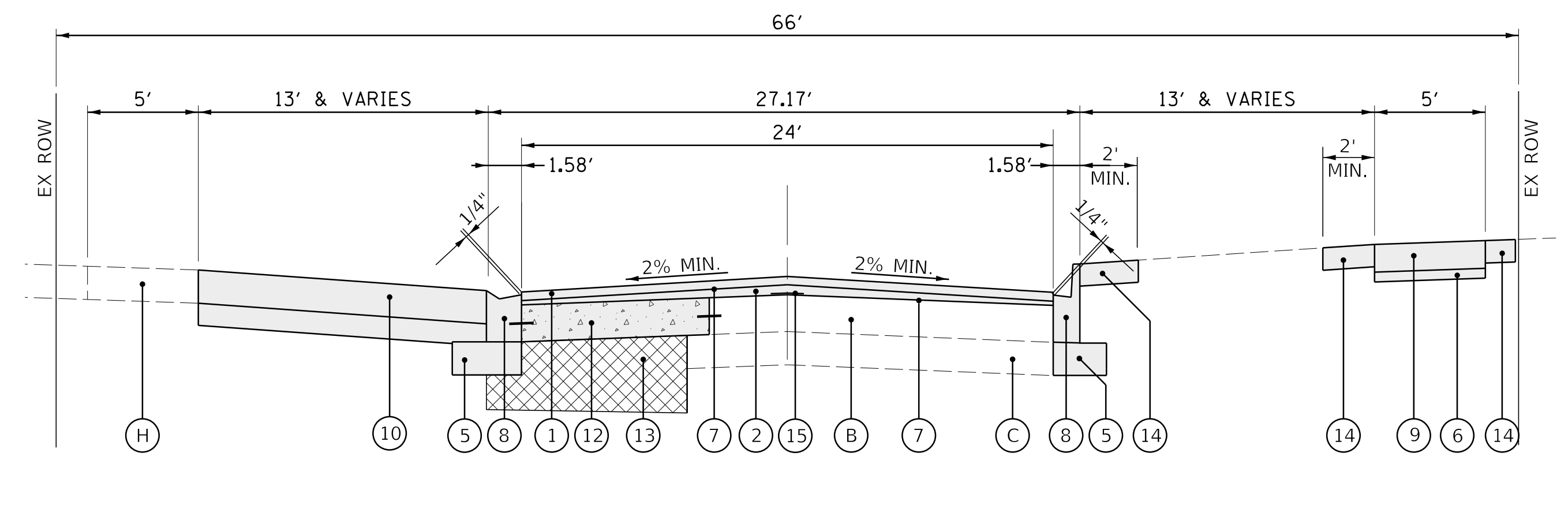
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TITLE: **WSNSP CONTRACT #3**  
**TYPICAL SECTIONS**  
**HUNTER ROAD**

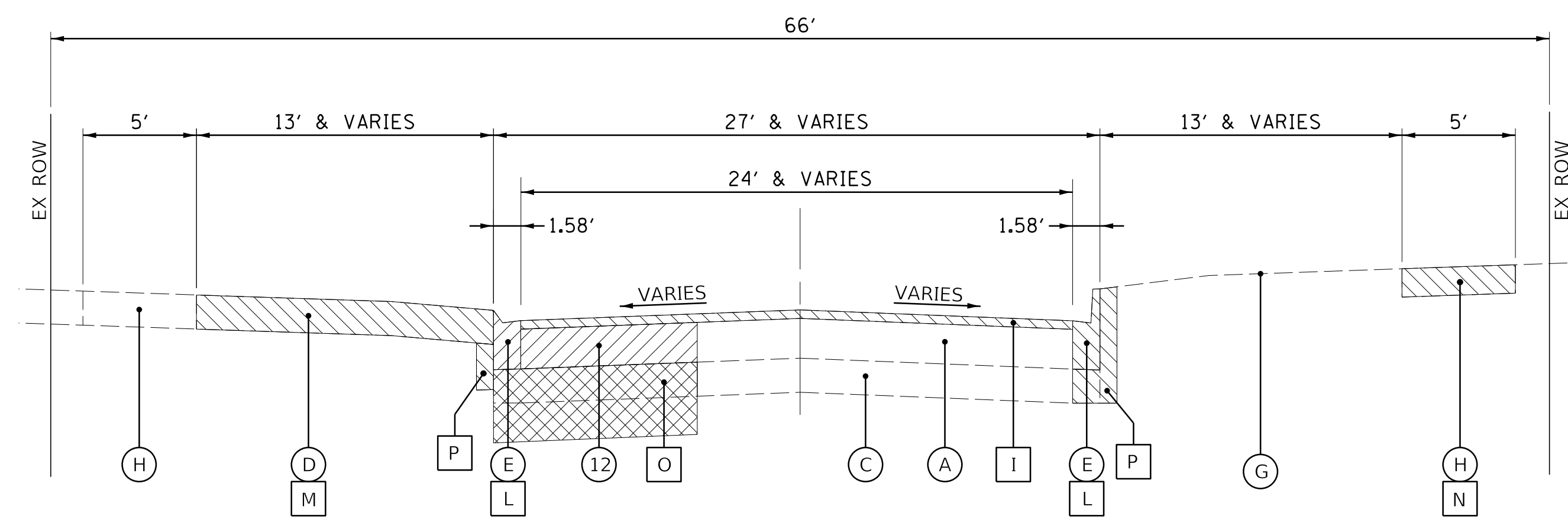
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 DATE: 10/8/2021  
 SHEET 10 OF 207  
 DRAWING NO. **10**



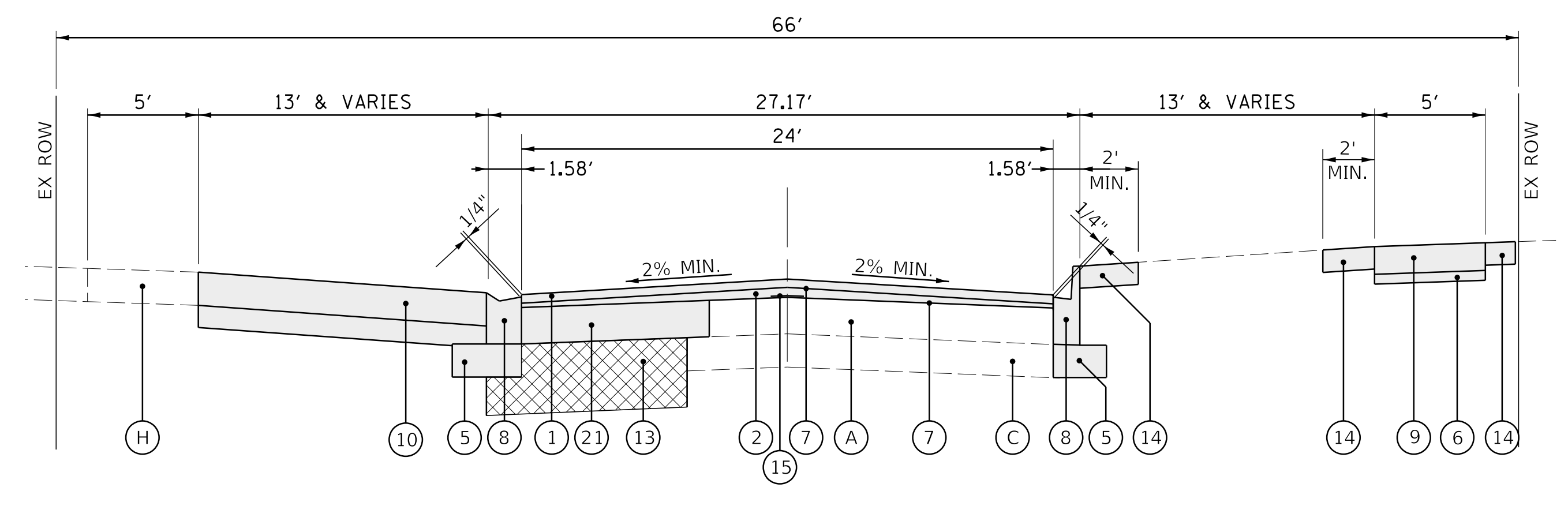
**EXISTING TYPICAL SECTION**  
 HUNTER ROAD (STA 17+00 TO STA 23+13)  
 HUNTER ROAD (STA 30+67 TO STA 32+17)



**PROPOSED TYPICAL SECTION**  
 HUNTER ROAD (STA 17+00 TO STA 23+13)  
 HUNTER ROAD (STA 30+67 TO STA 32+17)



**EXISTING TYPICAL SECTION**  
 HUNTER ROAD (STA 23+13 TO STA 23+99)  
 HUNTER ROAD (STA 29+73 TO STA 30+67)



**PROPOSED TYPICAL SECTION**  
 HUNTER ROAD (STA 23+13 TO STA 23+99)  
 HUNTER ROAD (STA 29+73 TO STA 30+67)

**LEGEND**

- |  |   |
|--|---|
| <p><b>EXISTING</b></p> <ul style="list-style-type: none"> <li>(A) EXISTING HOT-MIX ASPHALT PAVEMENT ***</li> <li>(B) EXISTING PCC PAVEMENT ***</li> <li>(C) EXISTING AGGREGATE BASE COURSE ***</li> <li>(D) EXISTING DRIVEWAY</li> <li>(E) EXISTING CURB AND GUTTER</li> <li>(F) EXISTING MONOLITHIC CURB AND GUTTER</li> <li>(G) EXISTING TOPSOIL AND SODDING</li> <li>(H) EXISTING PCC SIDEWALK</li> <li>(I) HMA SURFACE REMOVAL, 2"</li> <li>(J) PCC SURFACE REMOVAL, 1 1/2"</li> <li>(K) PAVEMENT REMOVAL (20")</li> <li>(L) COMBINATION CURB AND GUTTER REMOVAL**</li> <li>(M) DRIVEWAY PAVEMENT REMOVAL**</li> <li>(N) SIDEWALK REMOVAL**</li> <li>(O) EXCAVATION FOR UTILITY INSTALLATION</li> <li>(P) EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL)</li> <li>(Q) REMOVAL AND DISPOSAL OF UNSUITABLE MAT.**</li> <li>(R) EXISTING PCC BASE COURSE</li> <li>[Hatched] ITEM TO BE REMOVED</li> <li>** AS DETERMINED BY THE ENGINEER</li> <li>*** SEE EXISTING PAVEMENT THICKNESS TABLE SHEET 16</li> </ul> | <p><b>PROPOSED</b></p> <ul style="list-style-type: none"> <li>(1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"</li> <li>(2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"</li> <li>(3) HMA BINDER COURSE, IL-19.0, N50, 6 1/2"</li> <li>(4) AGGREGATE BASE COURSE, TYPE B, 12"</li> <li>(5) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)</li> <li>(6) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)</li> <li>(7) BITUMINOUS MATERIALS (TACK COAT)</li> <li>(8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12</li> <li>(9) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)</li> <li>(10) DRIVEWAY PAVEMENT</li> <li>(11) CLASS B PATCH, SPECIAL, 12" (WITH REBAR PER IDOT STD.)</li> <li>(12) CLASS B PATCH, SPECIAL, 6"</li> <li>(13) TRENCH BACKFILL FROM UTILITY INSTALLATION</li> <li>(14) SODDING, SPECIAL</li> <li>(15) STRIP REFLECTIVE CRACK CONTROL TREATMENT</li> <li>(16) AGGREGATE BASE REPAIR AND PREPARATION OF BASE</li> <li>(17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION</li> <li>(18) AGGREGATE SUBGRADE IMPROVEMENT, 12"</li> <li>(19) HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 2"</li> <li>(20) PCC BASE COURSE, 10"</li> <li>(21) CLASS D PATCH, SPECIAL, 6"</li> <li>(22) TRENCH BACKFILL FA-6 SAND</li> </ul> |
|--|---|

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
<b>PAVEMENT RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR
<b>PAVEMENT RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6 1/2" (2 LIFTS)	4% @ 50 GYR
<b>CLASS D PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" (2 LIFTS)	4% @ 50 GYR
<b>DRIVEWAY PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 3"	4% @ 50 GYR
<b>TEMPORARY PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	4% @ 50 GYR
<b>LAKE AVENUE RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N70, 2"	4% @ 50 GYR

NOTES:  
 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.  
 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.  
 3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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 (847) 823-0500

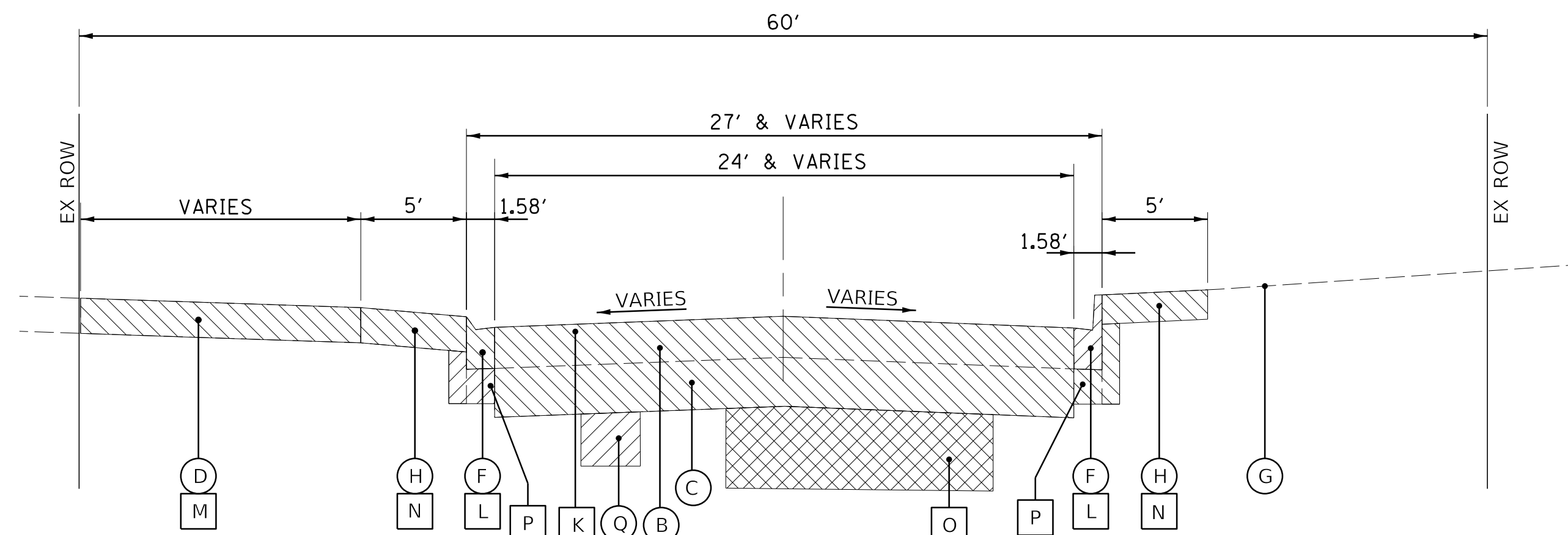
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
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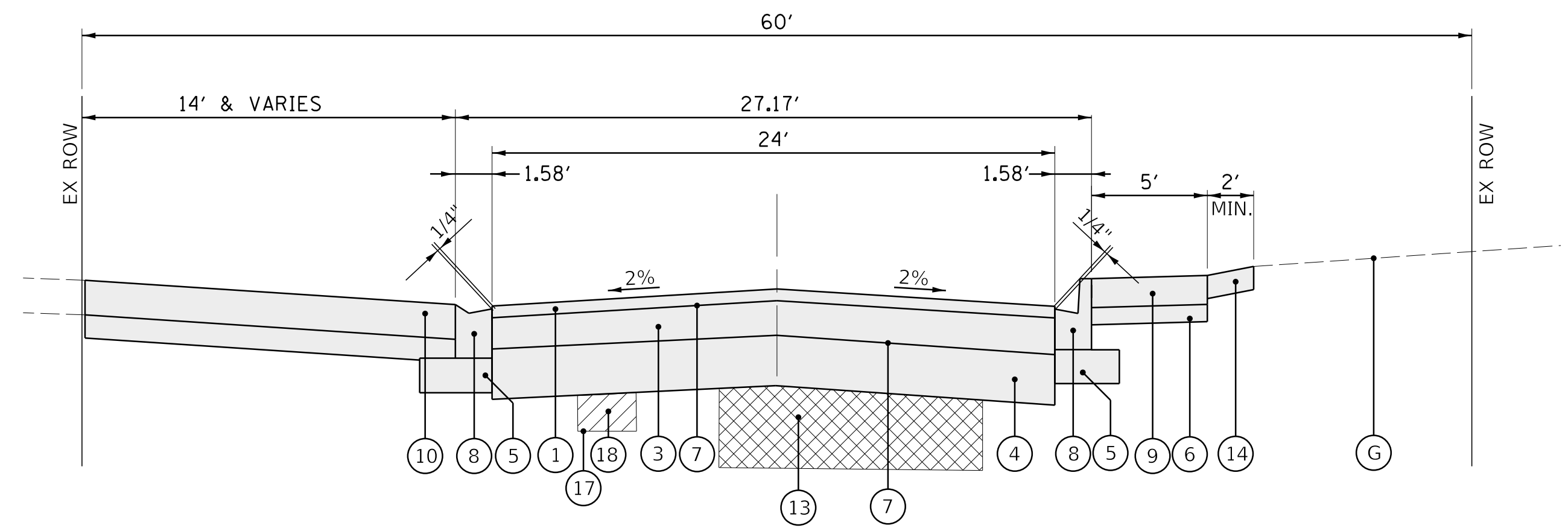
TITLE: **WSNSP CONTRACT #3**  
**TYPICAL SECTIONS**  
**HUNTER ROAD**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 11 OF 207  
 DRAWING NO.  
**11**



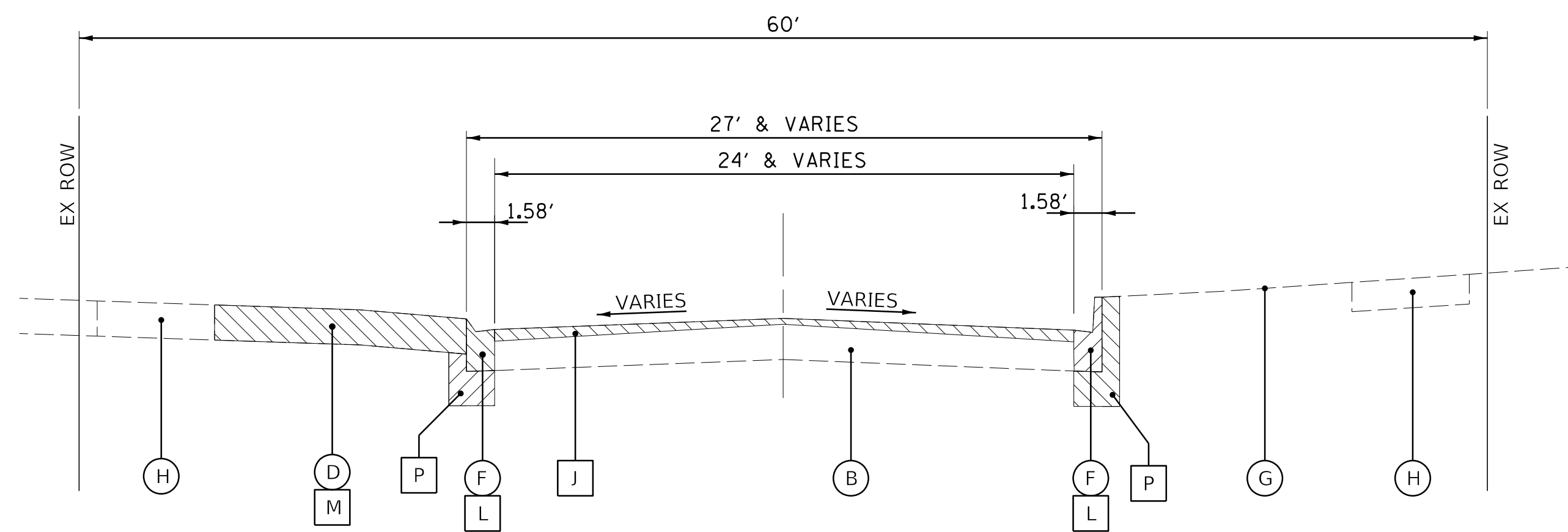
**EXISTING TYPICAL SECTION**

GREENWOOD AVENUE (STA 40+12 TO STA 48+50)



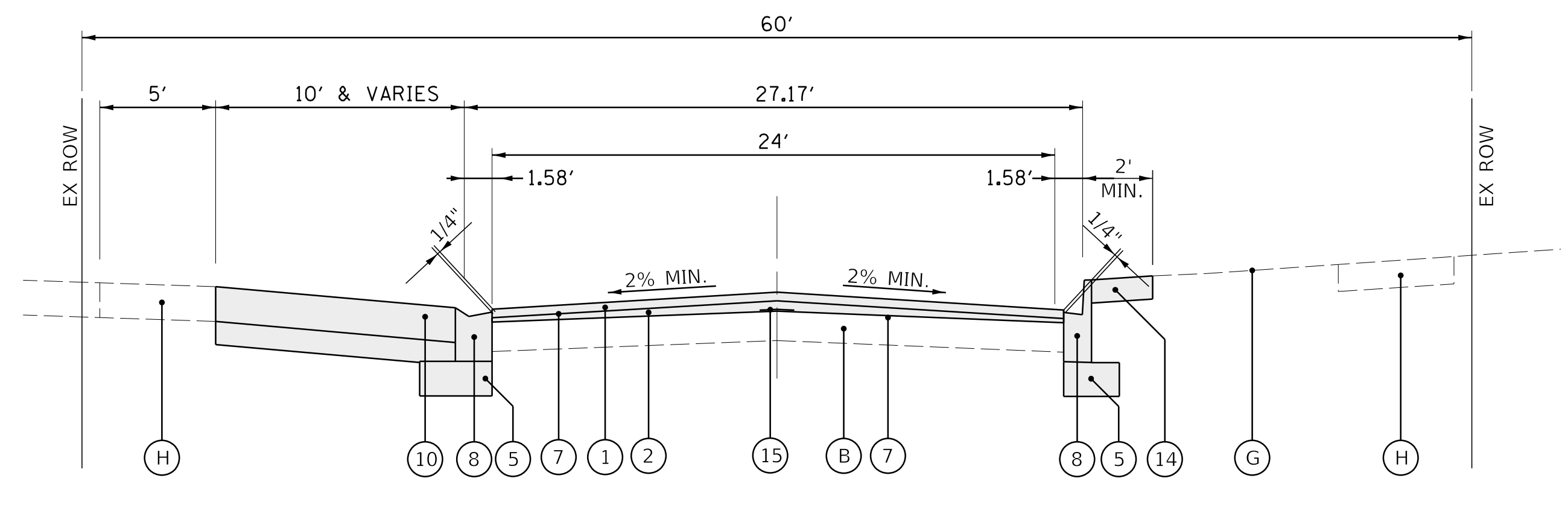
**PROPOSED TYPICAL SECTION**

GREENWOOD AVENUE (STA 40+12 TO STA 48+50)



**EXISTING TYPICAL SECTION**

GREENWOOD AVENUE (STA 48+50 TO STA 53+21)



**PROPOSED TYPICAL SECTION**

GREENWOOD AVENUE (STA 48+50 TO STA 53+21)

**LEGEND**

**EXISTING**

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT...
- (B) EXISTING PCC PAVEMENT...
- (C) EXISTING AGGREGATE BASE COURSE...
- (D) EXISTING DRIVEWAY
- (E) EXISTING CURB AND GUTTER
- (F) EXISTING MONOLITHIC CURB AND GUTTER
- (G) EXISTING TOPSOIL AND SODDING
- (H) EXISTING PCC SIDEWALK
- (I) HMA SURFACE REMOVAL, 2"
- (J) PCC SURFACE REMOVAL, 1 1/2"
- (K) PAVEMENT REMOVAL (20")
- (L) COMBINATION CURB AND GUTTER REMOVAL..
- (M) DRIVEWAY PAVEMENT REMOVAL..
- (N) SIDEWALK REMOVAL..
- (O) EXCAVATION FOR UTILITY INSTALLATION
- (P) EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL)
- (Q) REMOVAL AND DISPOSAL OF UNSUITABLE MAT..
- (R) EXISTING PCC BASE COURSE
- [Hatched] ITEM TO BE REMOVED
- \*\* AS DETERMINED BY THE ENGINEER
- ... SEE EXISTING PAVEMENT THICKNESS TABLE SHEET 16

**PROPOSED**

- (1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- (3) HMA BINDER COURSE, IL-19.0, N50, 6 1/2"
- (4) AGGREGATE BASE COURSE, TYPE B, 12"
- (5) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)
- (6) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)
- (7) BITUMINOUS MATERIALS (TACK COAT)
- (8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12
- (9) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)
- (10) DRIVEWAY PAVEMENT
- (11) CLASS B PATCH, SPECIAL, 12" (WITH REBAR PER IDOT STD.)
- (12) CLASS B PATCH, SPECIAL, 6"
- (13) TRENCH BACKFILL FROM UTILITY INSTALLATION
- (14) SODDING, SPECIAL
- (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (16) AGGREGATE BASE REPAIR AND PREPARATION OF BASE
- (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (18) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (19) HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- (20) PCC BASE COURSE, 10"
- (21) CLASS D PATCH, SPECIAL, 6"
- (22) TRENCH BACKFILL FA-6 SAND

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS
<b>PAVEMENT RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR
<b>PAVEMENT RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6 1/2" (2 LIFTS)	4% @ 50 GYR
<b>CLASS D PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" (2 LIFTS)	4% @ 50 GYR
<b>DRIVEWAY PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 3"	4% @ 50 GYR
<b>TEMPORARY PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	4% @ 50 GYR
<b>LAKE AVENUE RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N70, 2"	4% @ 50 GYR

- NOTES:**
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
  - THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
  - FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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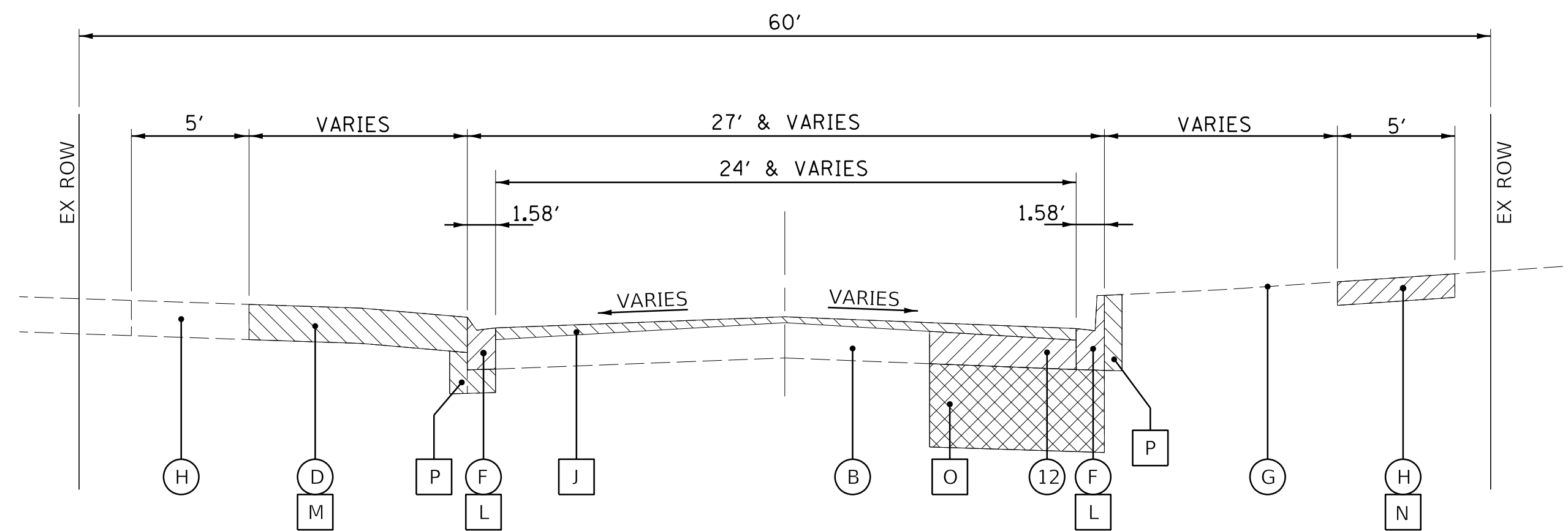
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
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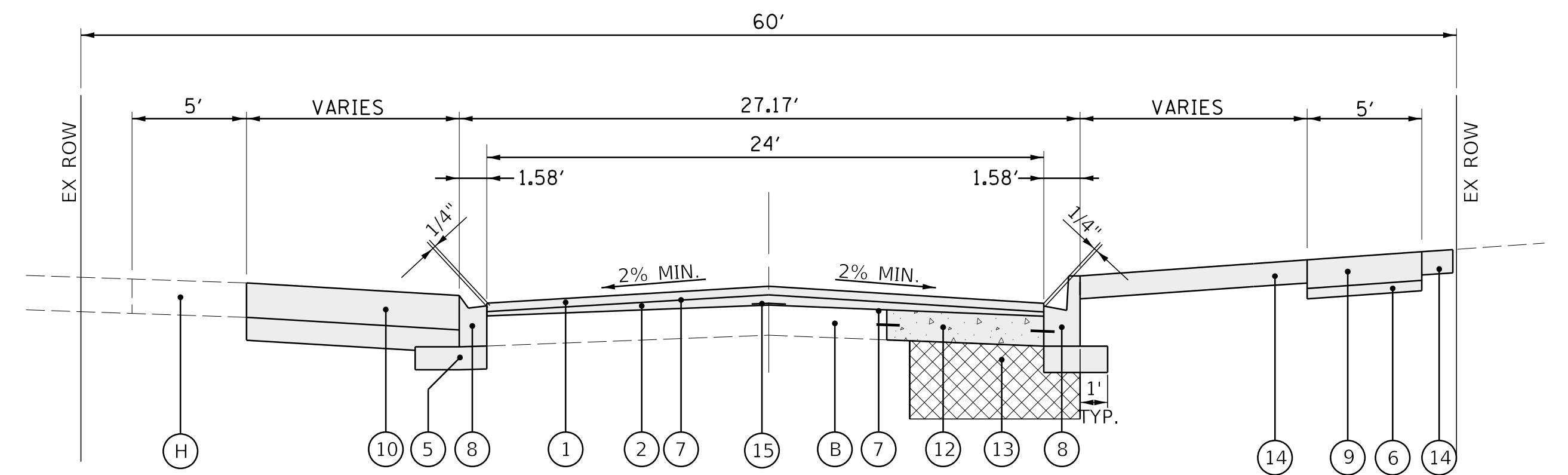
TITLE: **WSNSP CONTRACT #3  
 TYPICAL SECTIONS  
 GREENWOOD AVENUE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 12 OF 207  
 DRAWING NO. **12**



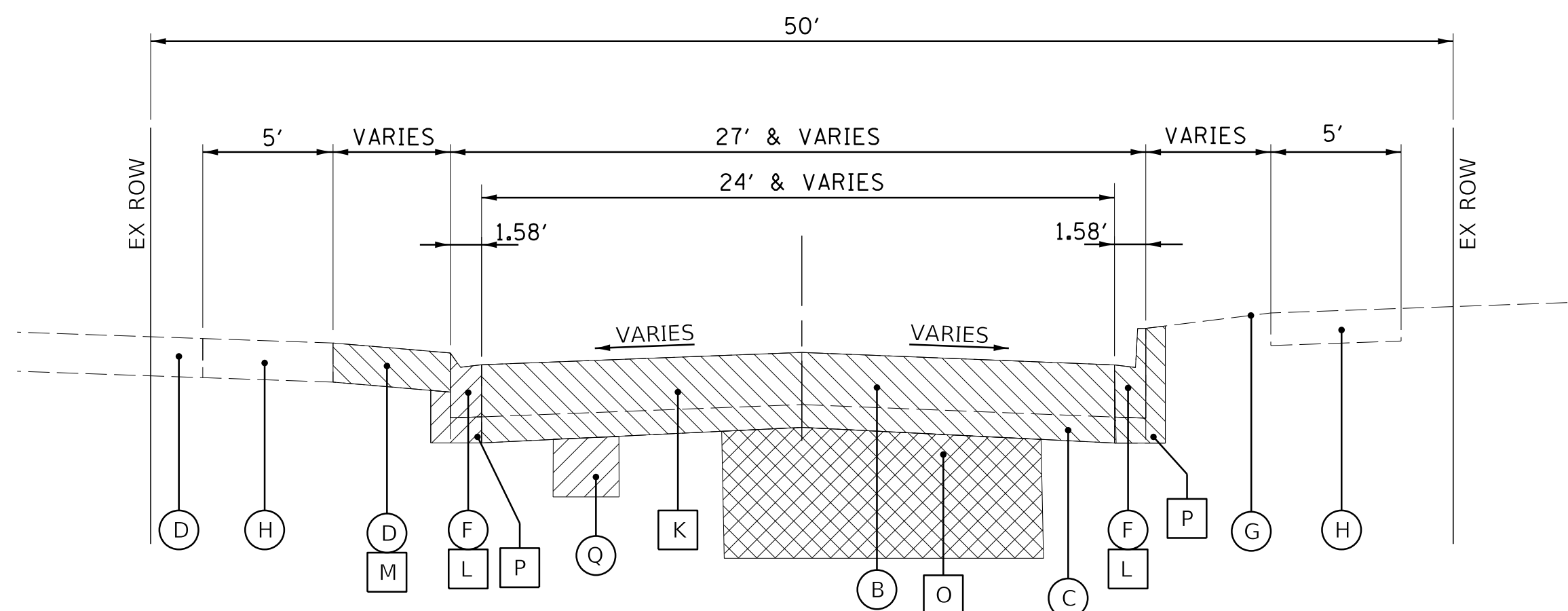
**EXISTING TYPICAL SECTION**

THORNWOOD AVENUE (STA 60+81 TO STA 70+05)



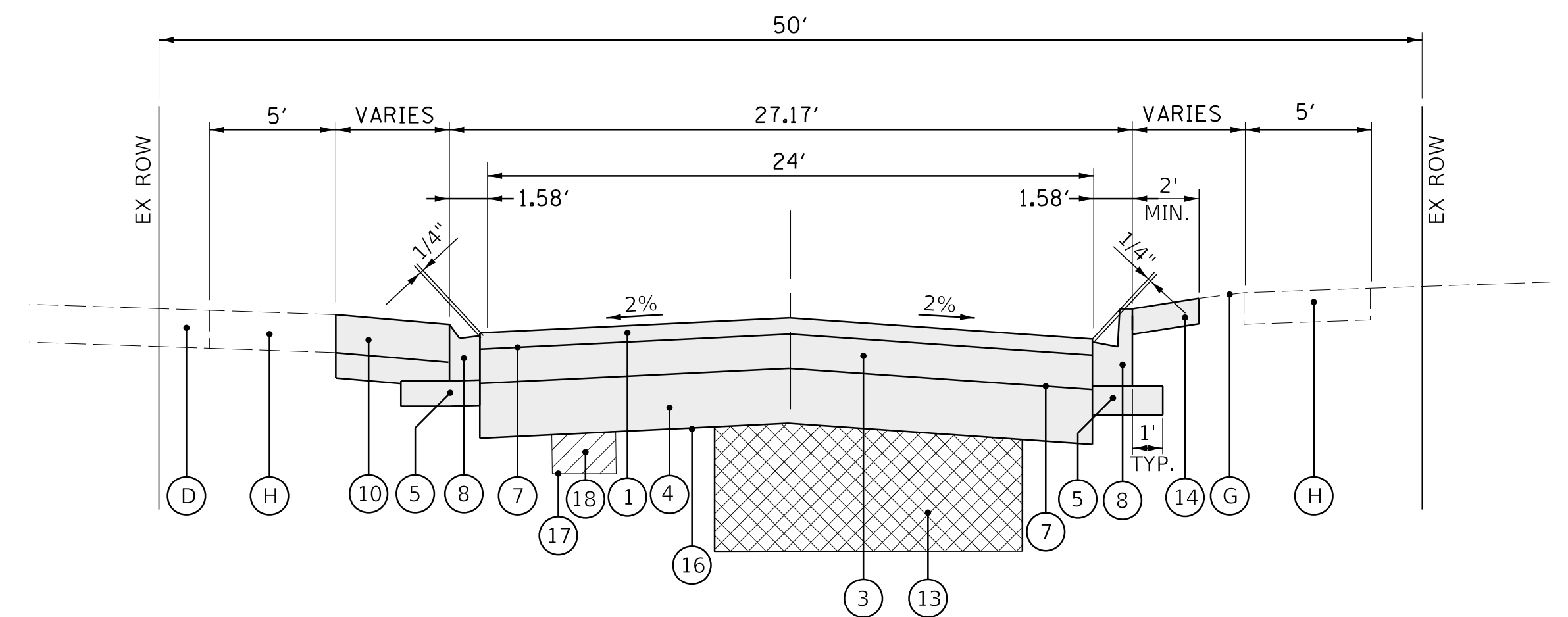
**PROPOSED TYPICAL SECTION**

THORNWOOD AVENUE (STA 60+81 TO STA 70+05)



**EXISTING TYPICAL SECTION**

BEECHWOOD AVENUE (STA 70+12 TO STA 83+86)



**PROPOSED TYPICAL SECTION**

BEECHWOOD AVENUE (STA 70+12 TO STA 83+86)

**LEGEND**

**EXISTING**

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT \*\*\*
- (B) EXISTING PCC PAVEMENT \*\*\*
- (C) EXISTING AGGREGATE BASE COURSE \*\*\*
- (D) EXISTING DRIVEWAY
- (E) EXISTING CURB AND GUTTER
- (F) EXISTING MONOLITHIC CURB AND GUTTER
- (G) EXISTING TOPSOIL AND SODDING
- (H) EXISTING PCC SIDEWALK
- (I) HMA SURFACE REMOVAL, 2"
- (J) PCC SURFACE REMOVAL, 1 1/2"
- (K) PAVEMENT REMOVAL (20")
- (L) COMBINATION CURB AND GUTTER REMOVAL\*\*
- (M) DRIVEWAY PAVEMENT REMOVAL\*\*
- (N) SIDEWALK REMOVAL\*\*
- (O) EXCAVATION FOR UTILITY INSTALLATION
- (P) EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL)
- (Q) REMOVAL AND DISPOSAL OF UNSUITABLE MAT.\*\*
- (R) EXISTING PCC BASE COURSE
- (S) ITEM TO BE REMOVED
- \*\* AS DETERMINED BY THE ENGINEER
- \*\*\* SEE EXISTING PAVEMENT THICKNESS TABLE SHEET 16

**PROPOSED**

- (1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- (3) HMA BINDER COURSE, IL-19.0, N50, 6 1/2"
- (4) AGGREGATE BASE COURSE, TYPE B, 12"
- (5) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)
- (6) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)
- (7) BITUMINOUS MATERIALS (TACK COAT)
- (8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12
- (9) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)
- (10) DRIVEWAY PAVEMENT
- (11) CLASS B PATCH, SPECIAL, 12" (WITH REBAR PER IDOT STD.)
- (12) CLASS B PATCH, SPECIAL, 6"
- (13) TRENCH BACKFILL FROM UTILITY INSTALLATION
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- (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (16) AGGREGATE BASE REPAIR AND PREPARATION OF BASE
- (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (18) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (19) HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- (20) PCC BASE COURSE, 10"
- (21) CLASS D PATCH, SPECIAL, 6"
- (22) TRENCH BACKFILL FA-6 SAND

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS
<b>PAVEMENT RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR
<b>PAVEMENT RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6 1/2" (2 LIFTS)	4% @ 50 GYR
<b>CLASS D PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" (2 LIFTS)	4% @ 50 GYR
<b>DRIVEWAY PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 3"	4% @ 50 GYR
<b>TEMPORARY PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	4% @ 50 GYR
<b>LAKE AVENUE RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N70, 2"	4% @ 50 GYR

- NOTES:**
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
  - THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
  - FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500



CLIENT:



**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
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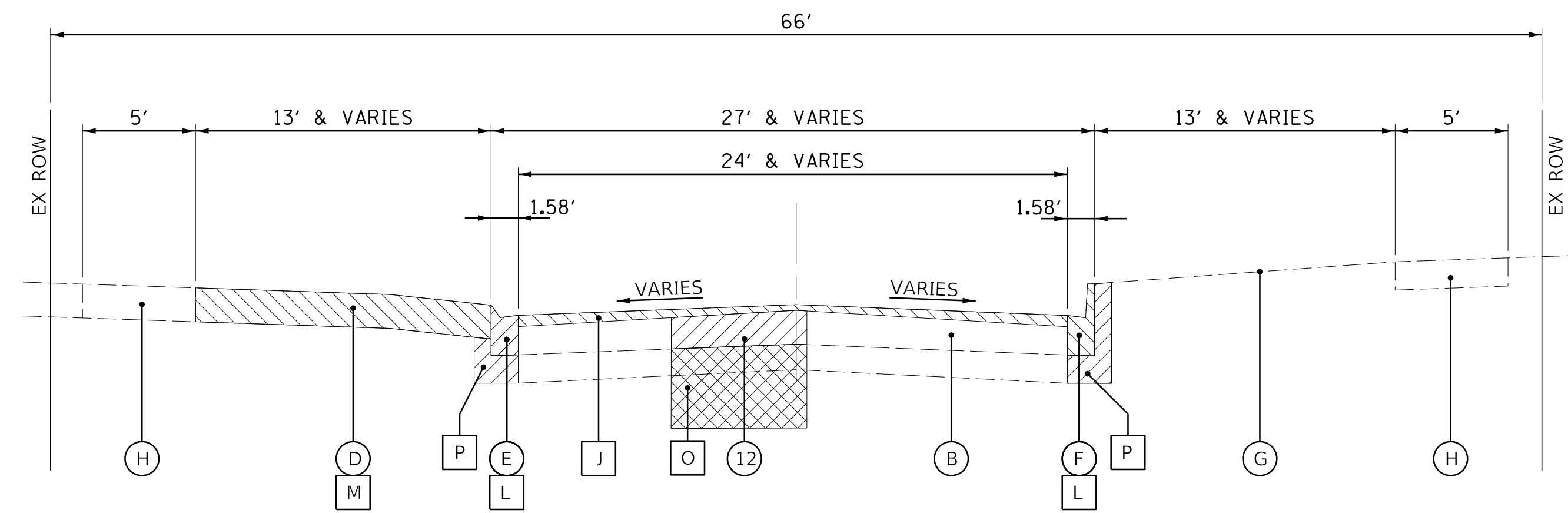
**WSNSP CONTRACT #3**  
**TYPICAL SECTIONS**  
**THORNWOOD & BEECHWOOD AVENUE**

PROJ. NO. 180245.0004

DATE: 10/8/2021

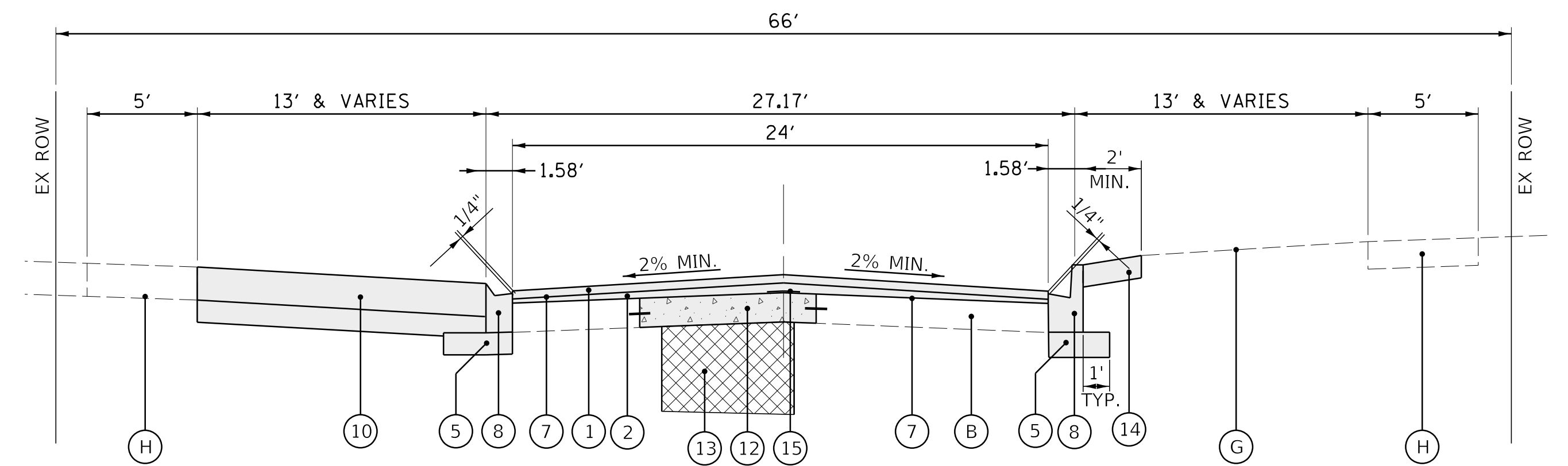
SHEET 13 OF 207

DRAWING NO.



**EXISTING TYPICAL SECTION**

21ST STREET (STA 90+14 TO STA 93+55)



**PROPOSED TYPICAL SECTION**

21ST STREET (STA 90+14 TO STA 93+55)

**LEGEND**

**EXISTING**

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT \*\*\*
- (B) EXISTING PCC PAVEMENT \*\*\*
- (C) EXISTING AGGREGATE BASE COURSE \*\*\*
- (D) EXISTING DRIVEWAY
- (E) EXISTING CURB AND GUTTER
- (F) EXISTING MONOLITHIC CURB AND GUTTER
- (G) EXISTING TOPSOIL AND SODDING
- (H) EXISTING PCC SIDEWALK
- (I) HMA SURFACE REMOVAL, 2"
- (J) PCC SURFACE REMOVAL, 1 1/2"
- (K) PAVEMENT REMOVAL (20")
- (L) COMBINATION CURB AND GUTTER REMOVAL\*\*
- (M) DRIVEWAY PAVEMENT REMOVAL\*\*
- (N) SIDEWALK REMOVAL\*\*
- (O) EXCAVATION FOR UTILITY INSTALLATION
- (P) EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL)
- (Q) REMOVAL AND DISPOSAL OF UNSUITABLE MAT.\*\*
- (R) EXISTING PCC BASE COURSE
- [Hatched Box] ITEM TO BE REMOVED
- \*\* AS DETERMINED BY THE ENGINEER
- \*\*\* SEE EXISTING PAVEMENT THICKNESS TABLE SHEET 16

**PROPOSED**

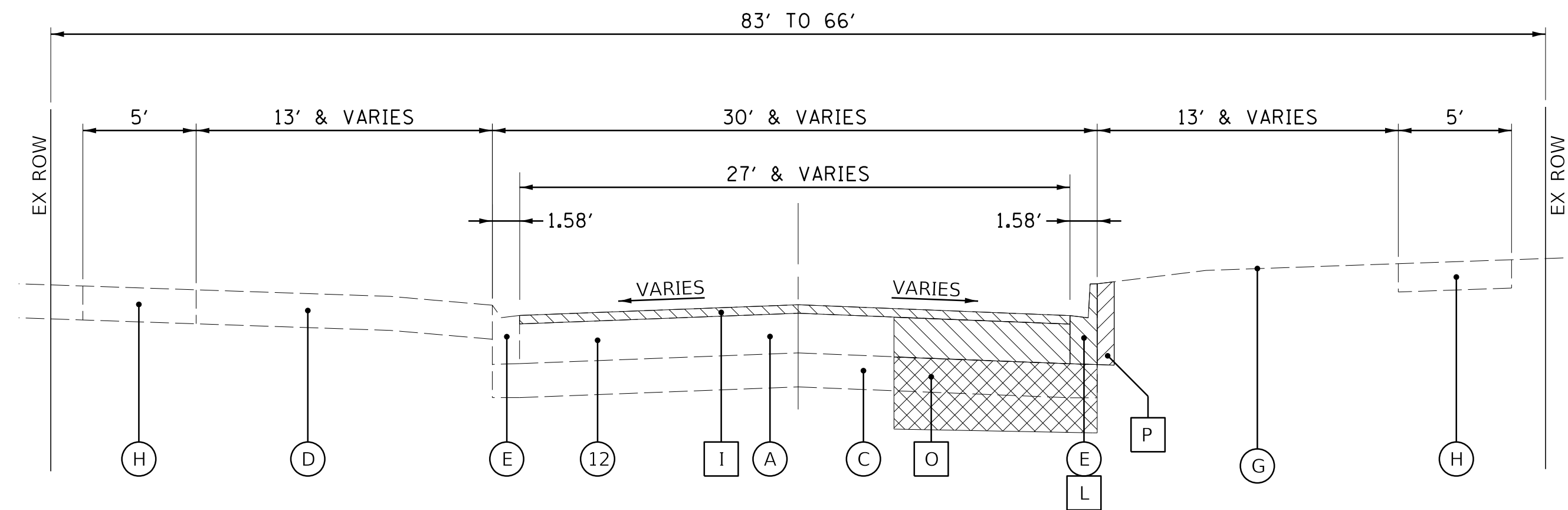
- (1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- (3) HMA BINDER COURSE, IL-19.0, N50, 6 1/2"
- (4) AGGREGATE BASE COURSE, TYPE B, 12"
- (5) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)
- (6) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)
- (7) BITUMINOUS MATERIALS (TACK COAT)
- (8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12
- (9) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)
- (10) DRIVEWAY PAVEMENT
- (11) CLASS B PATCH, SPECIAL, 12" (WITH REBAR PER IDOT STD.)
- (12) CLASS B PATCH, SPECIAL, 6"
- (13) TRENCH BACKFILL FROM UTILITY INSTALLATION
- (14) SODDING, SPECIAL
- (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (16) AGGREGATE BASE REPAIR AND PREPARATION OF BASE
- (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (18) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (19) HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- (20) PCC BASE COURSE, 10"
- (21) CLASS D PATCH, SPECIAL, 6"
- (22) TRENCH BACKFILL FA-6 SAND

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

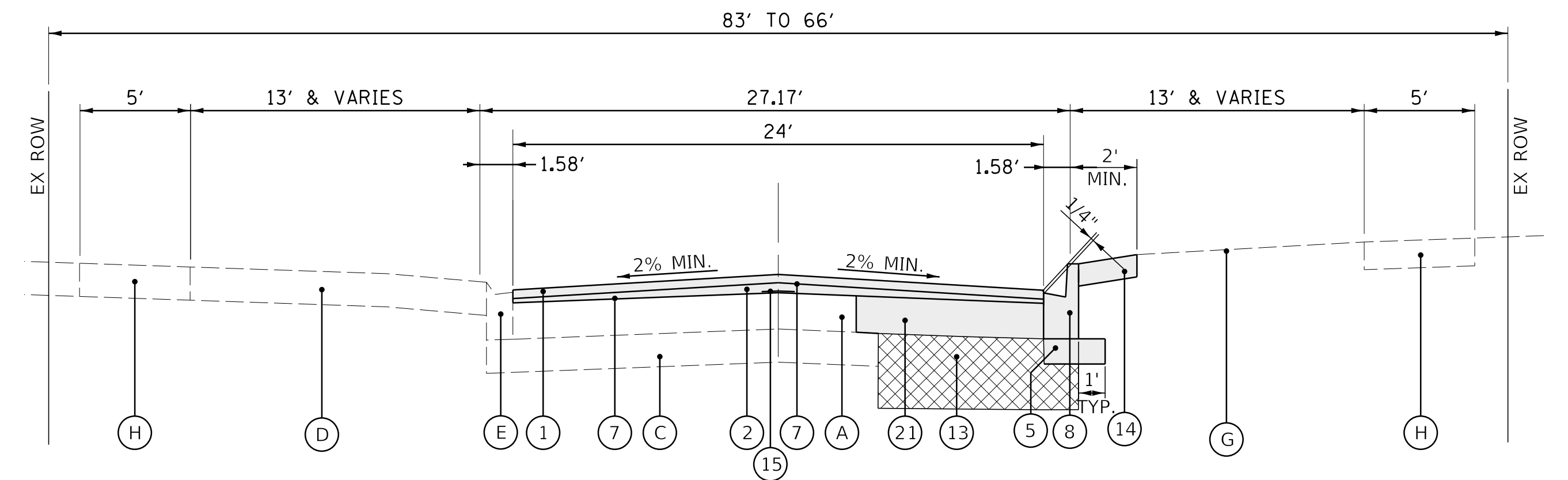
MIXTURE TYPE	AIR VOIDS
<b>PAVEMENT RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR
<b>PAVEMENT RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6 1/2" (2 LIFTS)	4% @ 50 GYR
<b>CLASS D PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" (2 LIFTS)	4% @ 50 GYR
<b>DRIVEWAY PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 3"	4% @ 50 GYR
<b>TEMPORARY PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	4% @ 50 GYR
<b>LAKE AVENUE RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N70, 2"	4% @ 50 GYR

- NOTES:
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
  - THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
  - FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

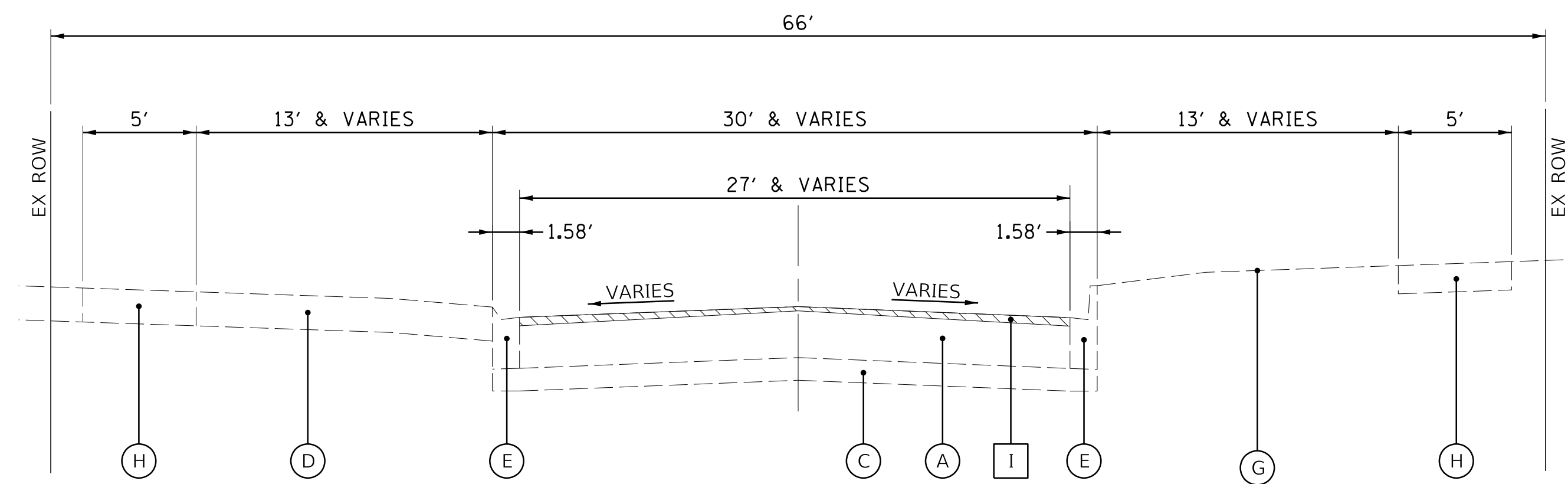
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DWN.	MAK	
CHKD.	LMF	
SCALE:	20'	
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NO.	DATE	REVISION
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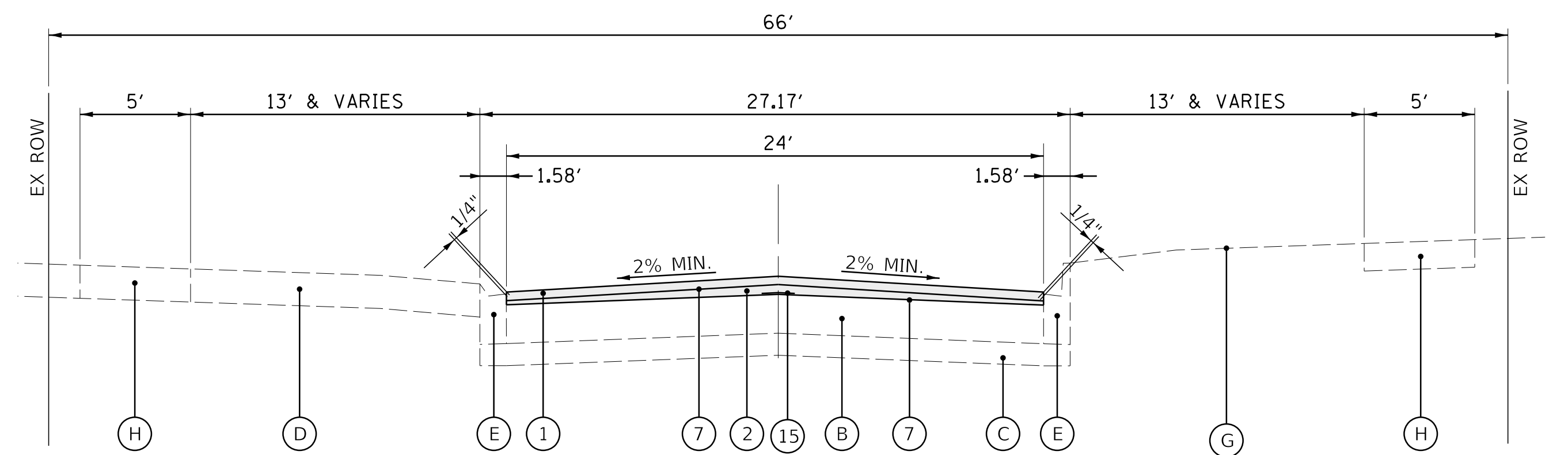
**EXISTING TYPICAL SECTION**  
HUNTER ROAD (STA 100+45 TO STA 104+82)



**PROPOSED TYPICAL SECTION**  
HUNTER ROAD (STA 100+45 TO STA 104+82)



**EXISTING TYPICAL SECTION**  
HUNTER ROAD (STA 95+87 TO STA 100+45)



**PROPOSED TYPICAL SECTION**  
HUNTER ROAD (STA 95+87 TO STA 100+45)

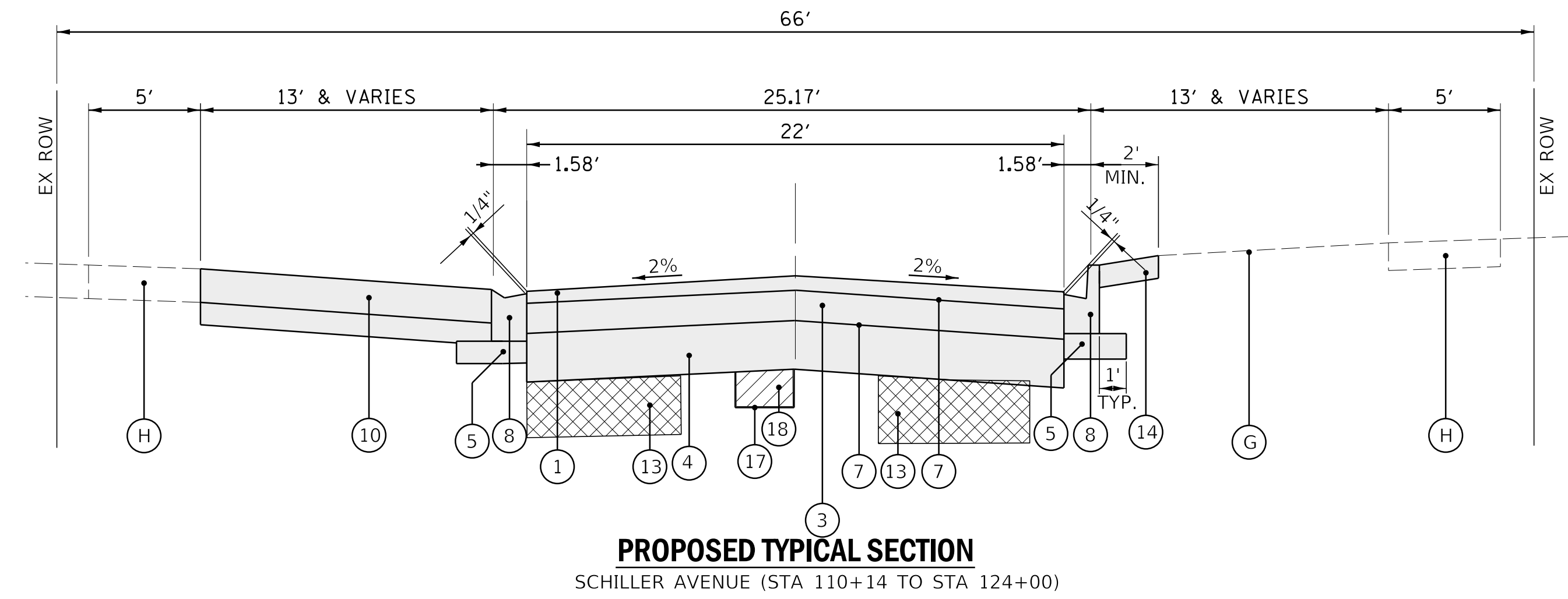
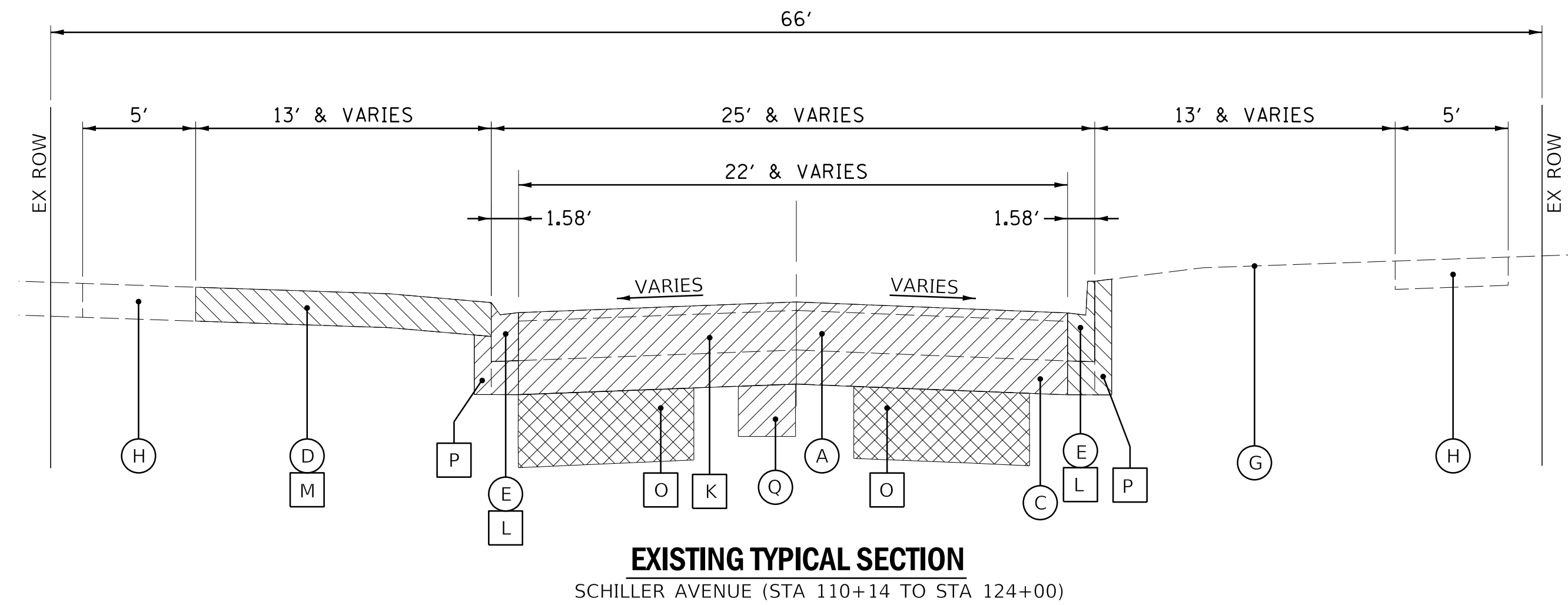
**LEGEND**

- |  |   |
|--|---|
| <p><b>EXISTING</b></p> <ul style="list-style-type: none"> <li>(A) EXISTING HOT-MIX ASPHALT PAVEMENT ***</li> <li>(B) EXISTING PCC PAVEMENT ***</li> <li>(C) EXISTING AGGREGATE BASE COURSE ***</li> <li>(D) EXISTING DRIVEWAY</li> <li>(E) EXISTING CURB AND GUTTER</li> <li>(F) EXISTING MONOLITHIC CURB AND GUTTER</li> <li>(G) EXISTING TOPSOIL AND SODDING</li> <li>(H) EXISTING PCC SIDEWALK</li> <li>(I) HMA SURFACE REMOVAL, 2"</li> <li>(J) PCC SURFACE REMOVAL, 1 1/2"</li> <li>(K) PAVEMENT REMOVAL (20")</li> <li>(L) COMBINATION CURB AND GUTTER REMOVAL**</li> <li>(M) DRIVEWAY PAVEMENT REMOVAL**</li> <li>(N) SIDEWALK REMOVAL**</li> <li>(O) EXCAVATION FOR UTILITY INSTALLATION</li> <li>(P) EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL)</li> <li>(Q) REMOVAL AND DISPOSAL OF UNSUITABLE MAT.**</li> <li>(R) EXISTING PCC BASE COURSE</li> <li>[Hatched Box] ITEM TO BE REMOVED</li> <li>** AS DETERMINED BY THE ENGINEER</li> <li>*** SEE EXISTING PAVEMENT THICKNESS TABLE SHEET 16</li> </ul> | <p><b>PROPOSED</b></p> <ul style="list-style-type: none"> <li>(1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"</li> <li>(2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"</li> <li>(3) HMA BINDER COURSE, IL-19.0, N50, 6 1/2"</li> <li>(4) AGGREGATE BASE COURSE, TYPE B, 12"</li> <li>(5) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)</li> <li>(6) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)</li> <li>(7) BITUMINOUS MATERIALS (TACK COAT)</li> <li>(8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12</li> <li>(9) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)</li> <li>(10) DRIVEWAY PAVEMENT</li> <li>(11) CLASS B PATCH, SPECIAL, 12" (WITH REBAR PER IDOT STD.)</li> <li>(12) CLASS B PATCH, SPECIAL, 6"</li> <li>(13) TRENCH BACKFILL FROM UTILITY INSTALLATION</li> <li>(14) SODDING, SPECIAL</li> <li>(15) STRIP REFLECTIVE CRACK CONTROL TREATMENT</li> <li>(16) AGGREGATE BASE REPAIR AND PREPARATION OF BASE</li> <li>(17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION</li> <li>(18) AGGREGATE SUBGRADE IMPROVEMENT, 12"</li> <li>(19) HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 2"</li> <li>(20) PCC BASE COURSE, 10"</li> <li>(21) CLASS D PATCH, SPECIAL, 6"</li> <li>(22) TRENCH BACKFILL FA-6 SAND</li> </ul> |
|--|---|

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
<b>PAVEMENT RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR
<b>PAVEMENT RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6 1/2" (2 LIFTS)	4% @ 50 GYR
<b>CLASS D PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" (2 LIFTS)	4% @ 50 GYR
<b>DRIVEWAY PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 3"	4% @ 50 GYR
<b>TEMPORARY PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	4% @ 50 GYR
<b>LAKE AVENUE RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N70, 2"	4% @ 50 GYR

- NOTES:
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
  - THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
  - FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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DWN.	MAK	
CHKD.	LMF	
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CAD USER:	mkoonce	
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NO.	DATE	REVISION
1	7/28/21	REVISED PER MWRD COMMENTS
FILE NAME	N:\wilmette\180245.00004\Civil\TYP-C3.180245_01.sht	



**LEGEND**

- | EXISTING   | PROPOSED  |
|--|---|
| (A) EXISTING HOT-MIX ASPHALT PAVEMENT ***                    | (1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"                |
| (B) EXISTING PCC PAVEMENT ***                                | (2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"             |
| (C) EXISTING AGGREGATE BASE COURSE ***                       | (3) HMA BINDER COURSE, IL-19.0, N50, 6 1/2"                 |
| (D) EXISTING DRIVEWAY  | (4) AGGREGATE BASE COURSE, TYPE B, 12"                      |
| (E) EXISTING CURB AND GUTTER                                 | (5) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)          |
| (F) EXISTING MONOLITHIC CURB AND GUTTER                      | (6) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)          |
| (G) EXISTING TOPSOIL AND SODDING                             | (7) BITUMINOUS MATERIALS (TACK COAT)                        |
| (H) EXISTING PCC SIDEWALK                                    | (8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12       |
| (I) HMA SURFACE REMOVAL, 2"                                  | (9) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)               |
| (J) PCC SURFACE REMOVAL, 1 1/2"                              | (10) DRIVEWAY PAVEMENT                                      |
| (K) PAVEMENT REMOVAL (20")                                   | (11) CLASS B PATCH, SPECIAL, 12" (WITH REBAR PER IDOT STD.) |
| (L) COMBINATION CURB AND GUTTER REMOVAL**                    | (12) CLASS B PATCH, SPECIAL, 6"                             |
| (M) DRIVEWAY PAVEMENT REMOVAL**                              | (13) TRENCH BACKFILL FROM UTILITY INSTALLATION              |
| (N) SIDEWALK REMOVAL**                                       | (14) SODDING, SPECIAL                                       |
| (O) EXCAVATION FOR UTILITY INSTALLATION                      | (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT               |
| (P) EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL) | (16) AGGREGATE BASE REPAIR AND PREPARATION OF BASE          |
| (Q) REMOVAL AND DISPOSAL OF UNSUITABLE MAT.**                | (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION           |
| (R) EXISTING PCC BASE COURSE                                 | (18) AGGREGATE SUBGRADE IMPROVEMENT, 12"                    |
| ▨ ITEM TO BE REMOVED   | (19) HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 2"           |
| ** AS DETERMINED BY THE ENGINEER                             | (20) PCC BASE COURSE, 10"                                   |
| *** SEE EXISTING PAVEMENT THICKNESS TABLE SHEET 16           | (21) CLASS D PATCH, SPECIAL, 6"                             |
|  | (22) TRENCH BACKFILL FA-6 SAND                              |

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS
<b>PAVEMENT RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR
<b>PAVEMENT RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6 1/2" (2 LIFTS)	4% @ 50 GYR
<b>CLASS D PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" (2 LIFTS)	4% @ 50 GYR
<b>DRIVEWAY PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 3"	4% @ 50 GYR
<b>TEMPORARY PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	4% @ 50 GYR
<b>LAKE AVENUE RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N70, 2"	4% @ 50 GYR

- NOTES:  
 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.  
 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.  
 3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

**EXISTING PAVEMENT THICKNESS DATA**

STREET	HOT-MIX ASPHALT	PCC	AGG. BASE
HUNTER ROAD (HMA) NORTH OF LAKE AVE.	± 8 1/2"	-	8" - 14 1/2"
HUNTER ROAD (PCC) NORTH OF LAKE AVE.	-	± 9"	± 4
HUNTER ROAD (HMA) SOUTH OF LAKE AVE.	4 1/2"	-	8"
GREENWOOD AVENUE	-	7" - 7 1/2"	-
THORNWOOD AVENUE	-	± 7"	-
BEECHWOOD AVENUE	-	7" - 9 1/2"	-
21ST STREET	-	± 8 3/4	-
DARTMOUTH STREET	3 3/4"	7"	-
SCHILLER AVENUE	4 1/4" - 4 3/4"	-	8"
WASHINGTON AVENUE	3"	-	10"
HIGHLAND AVENUE	3 1/2"	-	8"

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

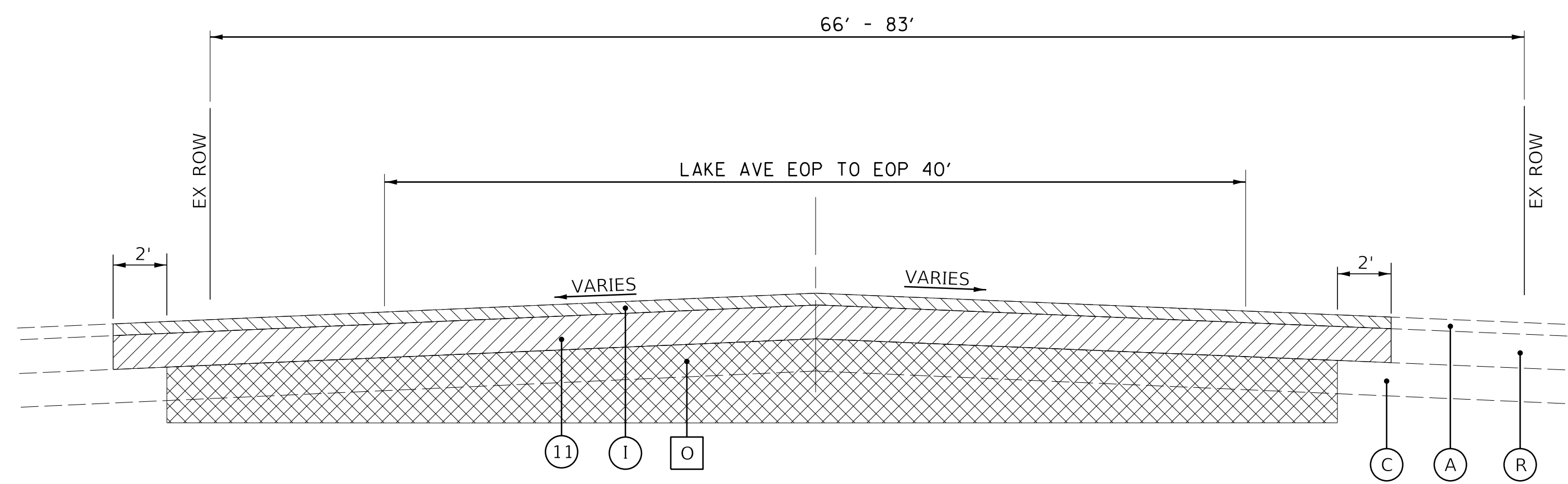
CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	LMF	20'
		NATURE OF REVISION	CAD USER:		10/8/2021
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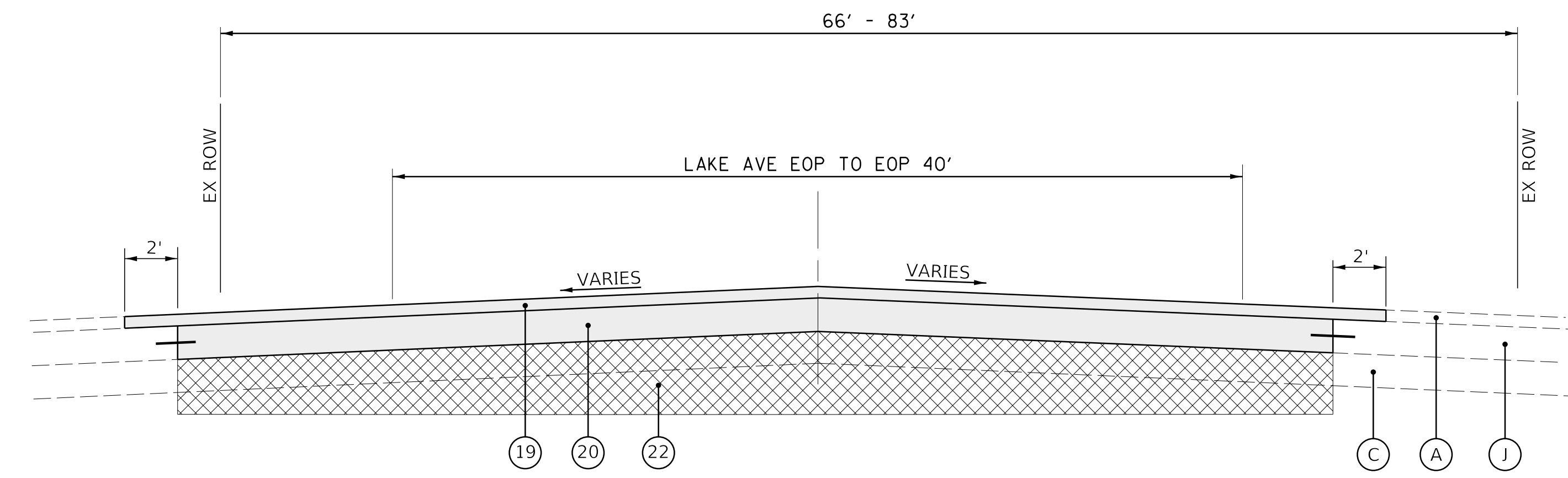
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**TYPICAL SECTIONS**  
**SCHILLER AVENUE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 16 OF 207  
 DRAWING NO. **16**





**EXISTING TYPICAL SECTION**  
LAKE AVENUE



**PROPOSED TYPICAL SECTION**  
LAKE AVENUE

ALL TRENCHES WITHIN COOK COUNTY ROW SHALL BE TRENCH BACKFILLED WITH FA-6 SAND IN ACCORDANCE WITH METHOD 1 AND IN ACCORDANCE WITH ARTICLE 550.01 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

NOTE:  
LAKE AVENUE IS COOK COUNTY ROW

**LEGEND**

- | EXISTING   | PROPOSED  |
|--|---|
| (A) EXISTING HOT-MIX ASPHALT PAVEMENT ***                    | (1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"                |
| (B) EXISTING PCC PAVEMENT ***                                | (2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"             |
| (C) EXISTING AGGREGATE BASE COURSE ***                       | (3) HMA BINDER COURSE, IL-19.0, N50, 6 1/2"                 |
| (D) EXISTING DRIVEWAY  | (4) AGGREGATE BASE COURSE, TYPE B, 12"                      |
| (E) EXISTING CURB AND GUTTER                                 | (5) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)          |
| (F) EXISTING MONOLITHIC CURB AND GUTTER                      | (6) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)          |
| (G) EXISTING TOPSOIL AND SODDING                             | (7) BITUMINOUS MATERIALS (TACK COAT)                        |
| (H) EXISTING PCC SIDEWALK                                    | (8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12       |
| (I) HMA SURFACE REMOVAL, 2"                                  | (9) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)               |
| (J) PCC SURFACE REMOVAL, 1 1/2"                              | (10) DRIVEWAY PAVEMENT                                      |
| (K) PAVEMENT REMOVAL (20")                                   | (11) CLASS B PATCH, SPECIAL, 12" (WITH REBAR PER IDOT STD.) |
| (L) COMBINATION CURB AND GUTTER REMOVAL**                    | (12) CLASS B PATCH, SPECIAL, 6"                             |
| (M) DRIVEWAY PAVEMENT REMOVAL**                              | (13) TRENCH BACKFILL FROM UTILITY INSTALLATION              |
| (N) SIDEWALK REMOVAL**                                       | (14) SODDING, SPECIAL                                       |
| (O) EXCAVATION FOR UTILITY INSTALLATION                      | (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT               |
| (P) EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL) | (16) AGGREGATE BASE REPAIR AND PREPARATION OF BASE          |
| (Q) REMOVAL AND DISPOSAL OF UNSUITABLE MAT.**                | (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION           |
| (R) EXISTING PCC BASE COURSE                                 | (18) AGGREGATE SUBGRADE IMPROVEMENT, 12"                    |
| [Hatched] ITEM TO BE REMOVED                                 | (19) HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 2"           |
| ** AS DETERMINED BY THE ENGINEER                             | (20) PCC BASE COURSE, 10"                                   |
| *** SEE EXISTING PAVEMENT THICKNESS TABLE SHEET 16           | (21) CLASS D PATCH, SPECIAL, 6"                             |
|  | (22) TRENCH BACKFILL FA-6 SAND                              |

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR
PAVEMENT RECONSTRUCTION	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6 1/2" (2 LIFTS)	4% @ 50 GYR
CLASS D PATCHING	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" (2 LIFTS)	4% @ 50 GYR
DRIVEWAY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 3"	4% @ 50 GYR
TEMPORARY PATCHING	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	4% @ 50 GYR
LAKE AVENUE RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N70, 2"	4% @ 50 GYR

- NOTES:
1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
  2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
  3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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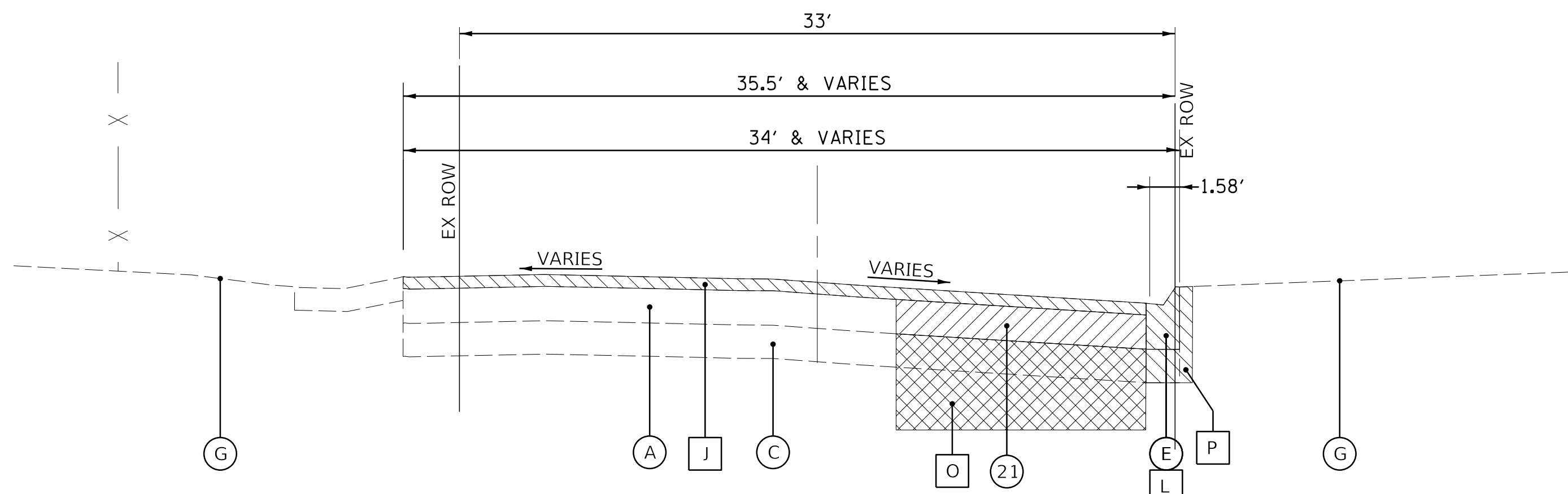
CLIENT:  **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	Default

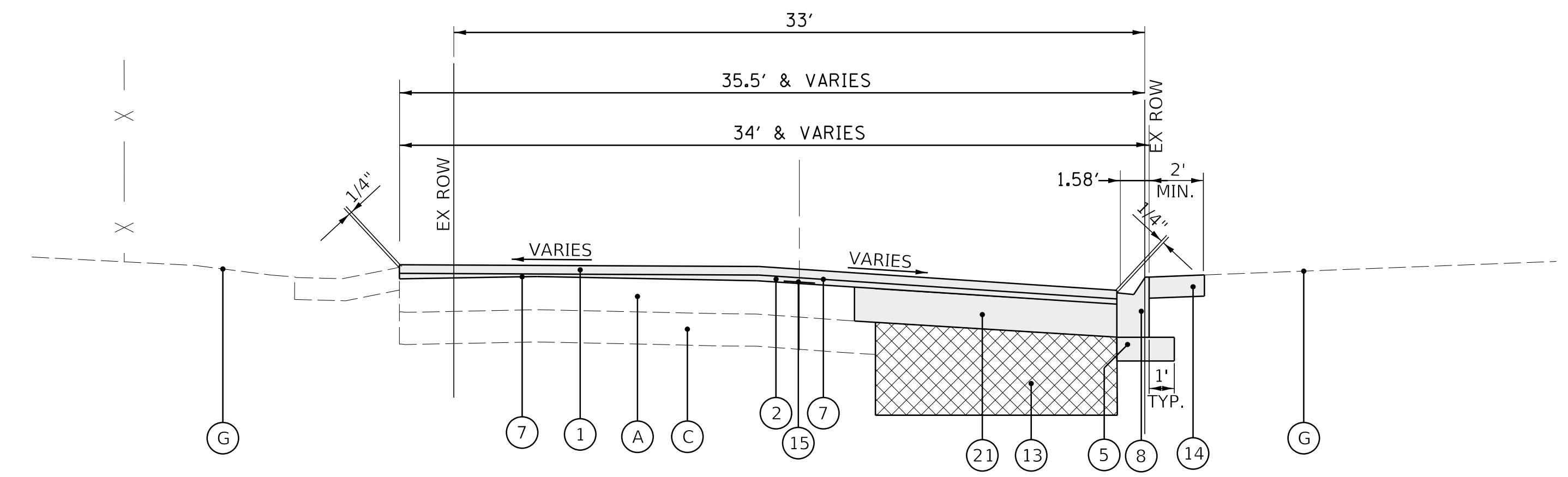
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TITLE: **WSNSP CONTRACT #3**  
**TYPICAL SECTIONS**  
**LAKE AVENUE**

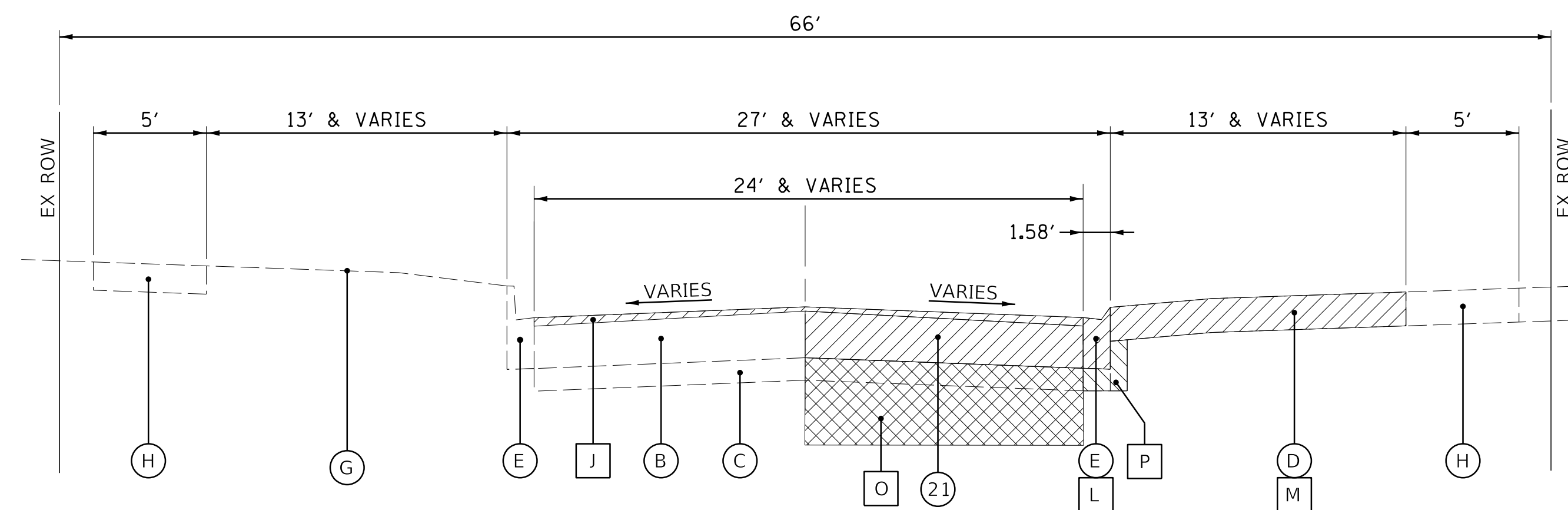
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DATE: 10/8/2021  
SHEET 17 OF 207  
DRAWING NO. **17**



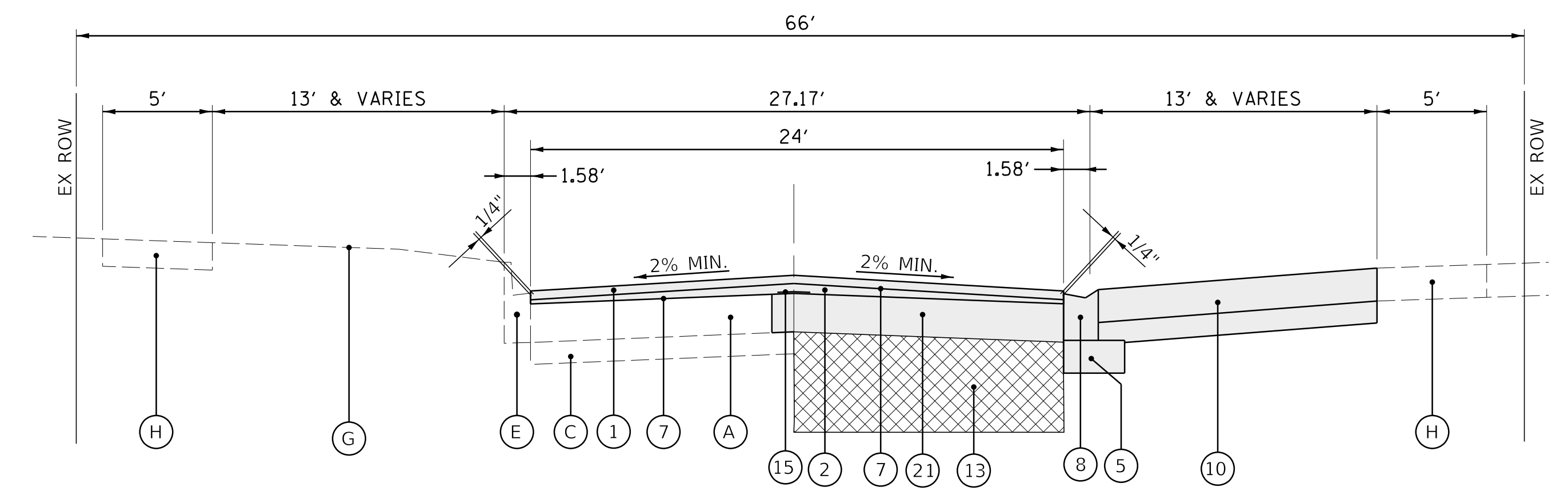
**EXISTING TYPICAL SECTION**  
WASHINGTON AVENUE (STA 152+10 TO STA 152+87)



**PROPOSED TYPICAL SECTION**  
WASHINGTON AVENUE (STA 152+10 TO STA 152+87)



**EXISTING TYPICAL SECTION**  
HIGHLAND AVENUE (STA 170+65 TO STA 173+75)



**PROPOSED TYPICAL SECTION**  
HIGHLAND AVENUE (STA 170+65 TO STA 173+75)

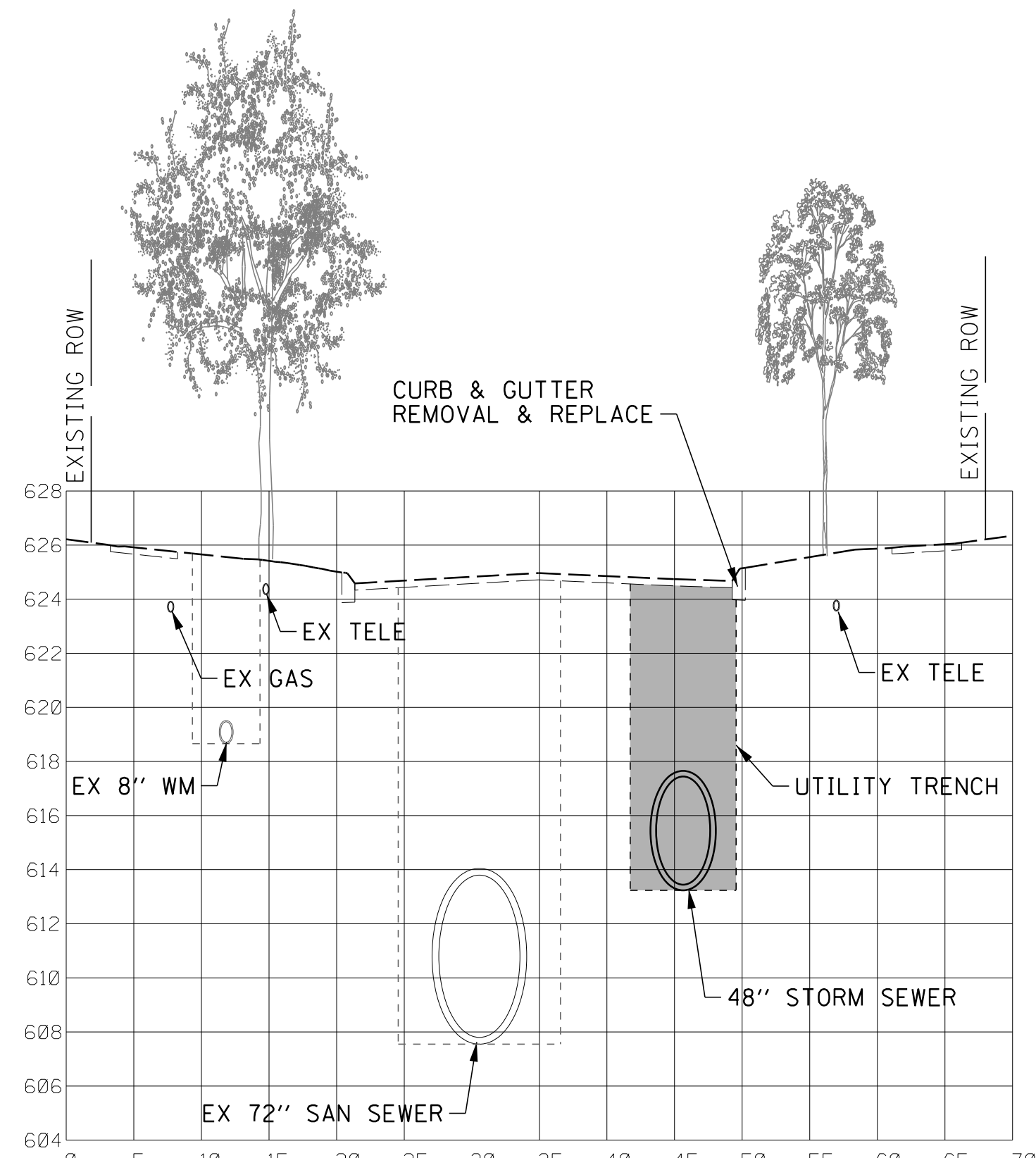
**LEGEND**

- |  |   |
|--|---|
| <p><b>EXISTING</b></p> <ul style="list-style-type: none"> <li>(A) EXISTING HOT-MIX ASPHALT PAVEMENT ***</li> <li>(B) EXISTING PCC PAVEMENT ***</li> <li>(C) EXISTING AGGREGATE BASE COURSE ***</li> <li>(D) EXISTING DRIVEWAY</li> <li>(E) EXISTING CURB AND GUTTER</li> <li>(F) EXISTING MONOLITHIC CURB AND GUTTER</li> <li>(G) EXISTING TOPSOIL AND SODDING</li> <li>(H) EXISTING PCC SIDEWALK</li> <li>(I) HMA SURFACE REMOVAL, 2"</li> <li>(J) PCC SURFACE REMOVAL, 1 1/2"</li> <li>(K) PAVEMENT REMOVAL (20")</li> <li>(L) COMBINATION CURB AND GUTTER REMOVAL**</li> <li>(M) DRIVEWAY PAVEMENT REMOVAL**</li> <li>(N) SIDEWALK REMOVAL**</li> <li>(O) EXCAVATION FOR UTILITY INSTALLATION</li> <li>(P) EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL)</li> <li>(Q) REMOVAL AND DISPOSAL OF UNSUITABLE MAT.**</li> <li>(R) EXISTING PCC BASE COURSE</li> <li>▨ ITEM TO BE REMOVED</li> <li>** AS DETERMINED BY THE ENGINEER</li> <li>*** SEE EXISTING PAVEMENT THICKNESS TABLE SHEET 16</li> </ul> | <p><b>PROPOSED</b></p> <ul style="list-style-type: none"> <li>(1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"</li> <li>(2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"</li> <li>(3) HMA BINDER COURSE, IL-19.0, N50, 6 1/2"</li> <li>(4) AGGREGATE BASE COURSE, TYPE B, 12"</li> <li>(5) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)</li> <li>(6) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)</li> <li>(7) BITUMINOUS MATERIALS (TACK COAT)</li> <li>(8) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-4.12</li> <li>(9) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)</li> <li>(10) DRIVEWAY PAVEMENT</li> <li>(11) CLASS B PATCH, SPECIAL, 12" (WITH REBAR PER IDOT STD.)</li> <li>(12) CLASS B PATCH, SPECIAL, 6"</li> <li>(13) TRENCH BACKFILL FROM UTILITY INSTALLATION</li> <li>(14) SODDING, SPECIAL</li> <li>(15) STRIP REFLECTIVE CRACK CONTROL TREATMENT</li> <li>(16) AGGREGATE BASE REPAIR AND PREPARATION OF BASE</li> <li>(17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION</li> <li>(18) AGGREGATE SUBGRADE IMPROVEMENT, 12"</li> <li>(19) HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 2"</li> <li>(20) PCC BASE COURSE, 10"</li> <li>(21) CLASS D PATCH, SPECIAL, 6"</li> <li>(22) TRENCH BACKFILL FA-6 SAND</li> </ul> |
|--|---|

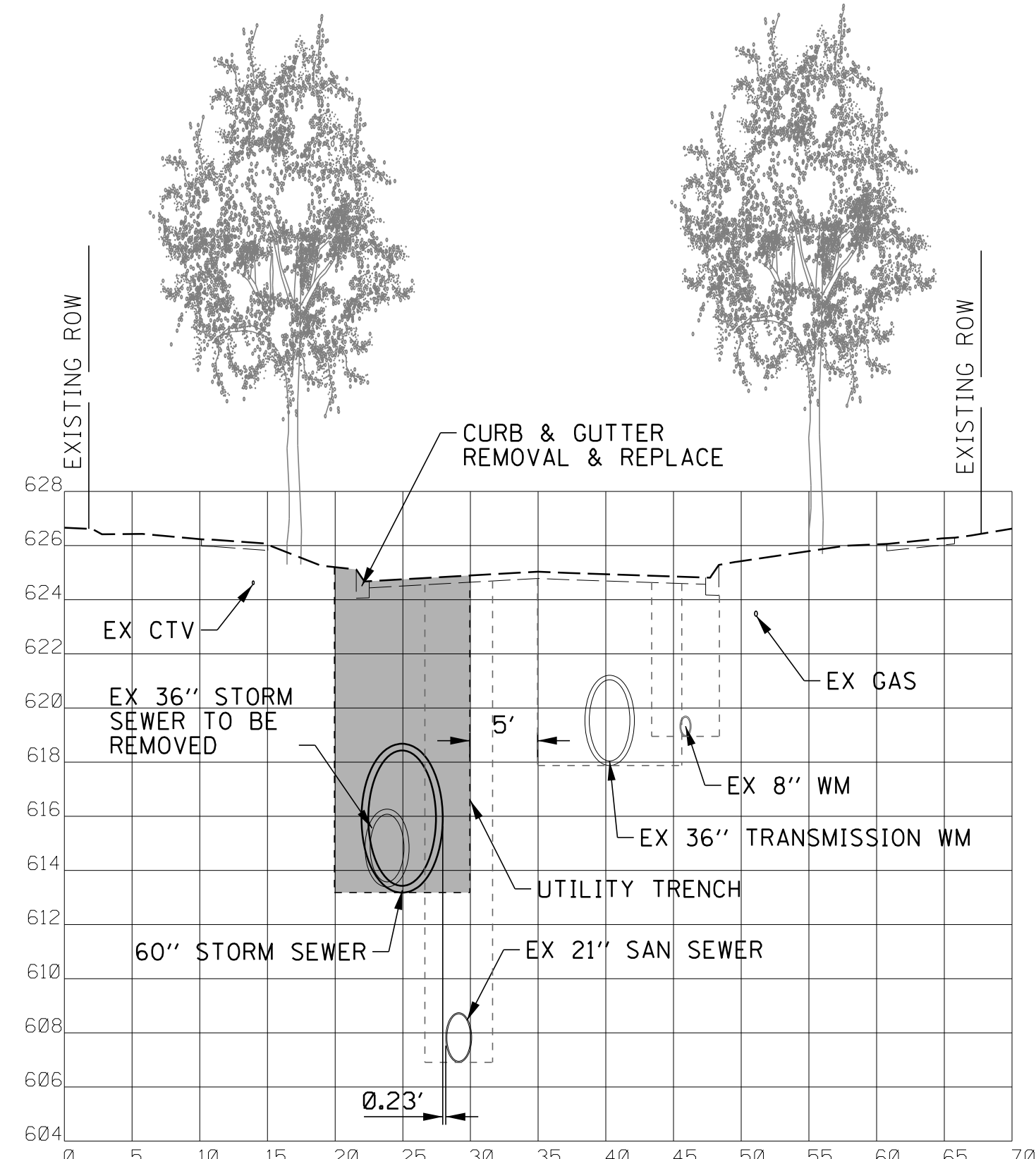
HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
<b>PAVEMENT RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR
<b>PAVEMENT RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6 1/2" (2 LIFTS)	4% @ 50 GYR
<b>CLASS D PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6" (2 LIFTS)	4% @ 50 GYR
<b>DRIVEWAY PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 3"	4% @ 50 GYR
<b>TEMPORARY PATCHING</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	4% @ 50 GYR
<b>LAKE AVENUE RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N70, 2"	4% @ 50 GYR

- NOTES:
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
  - THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
  - FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

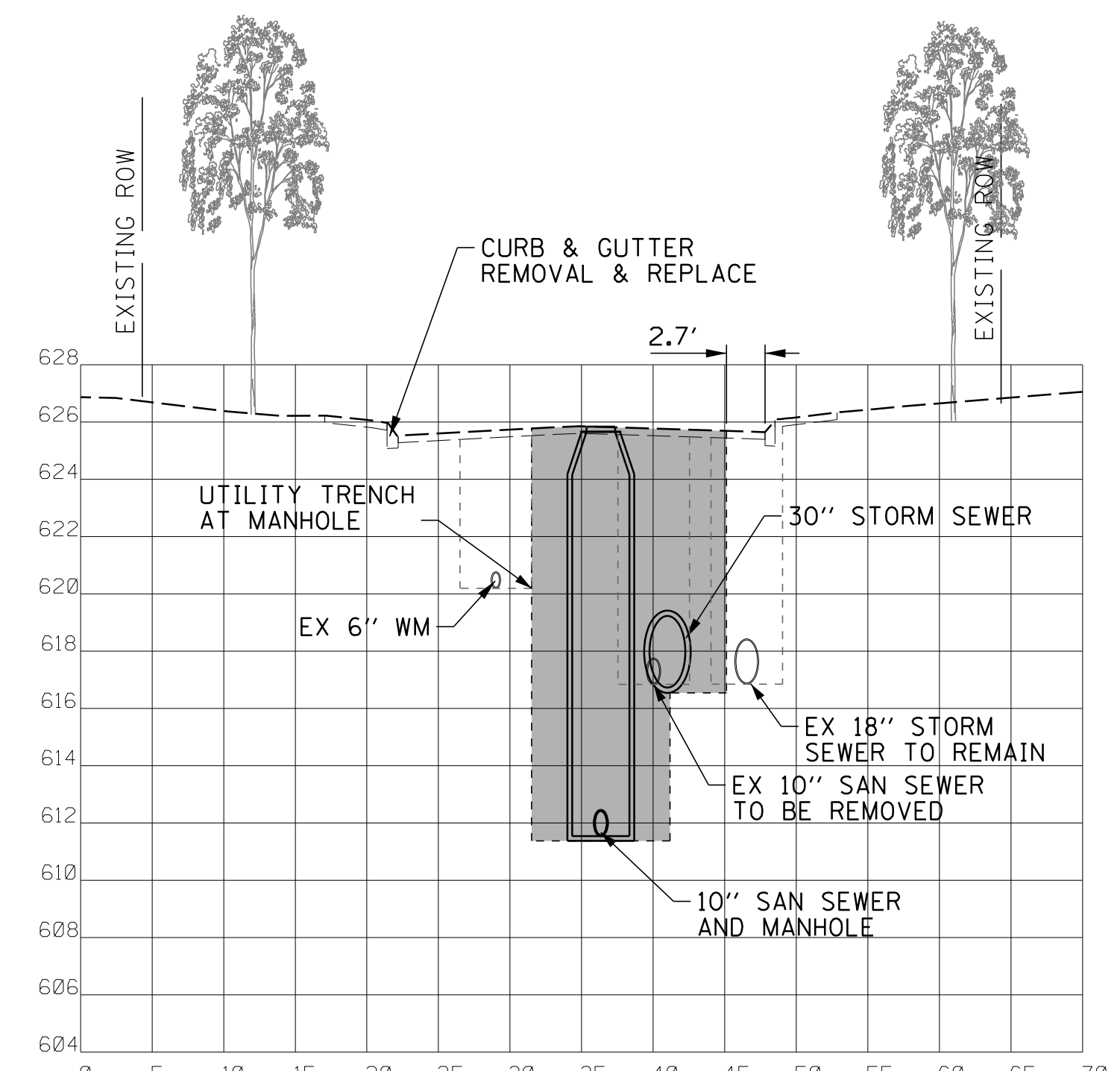
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1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
		NATURE OF REVISION		
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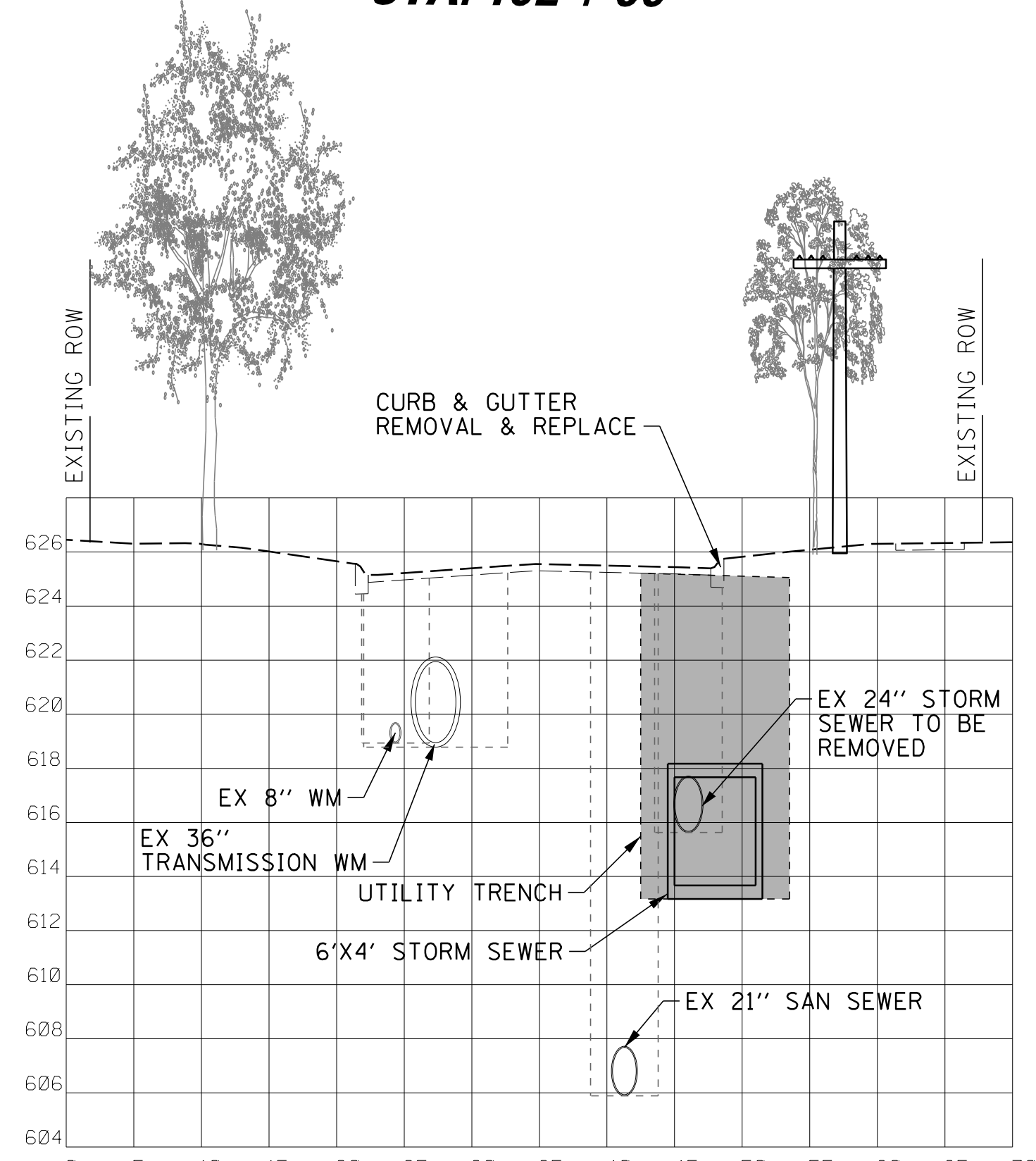
**HUNTER RD  
STA. 102+00**



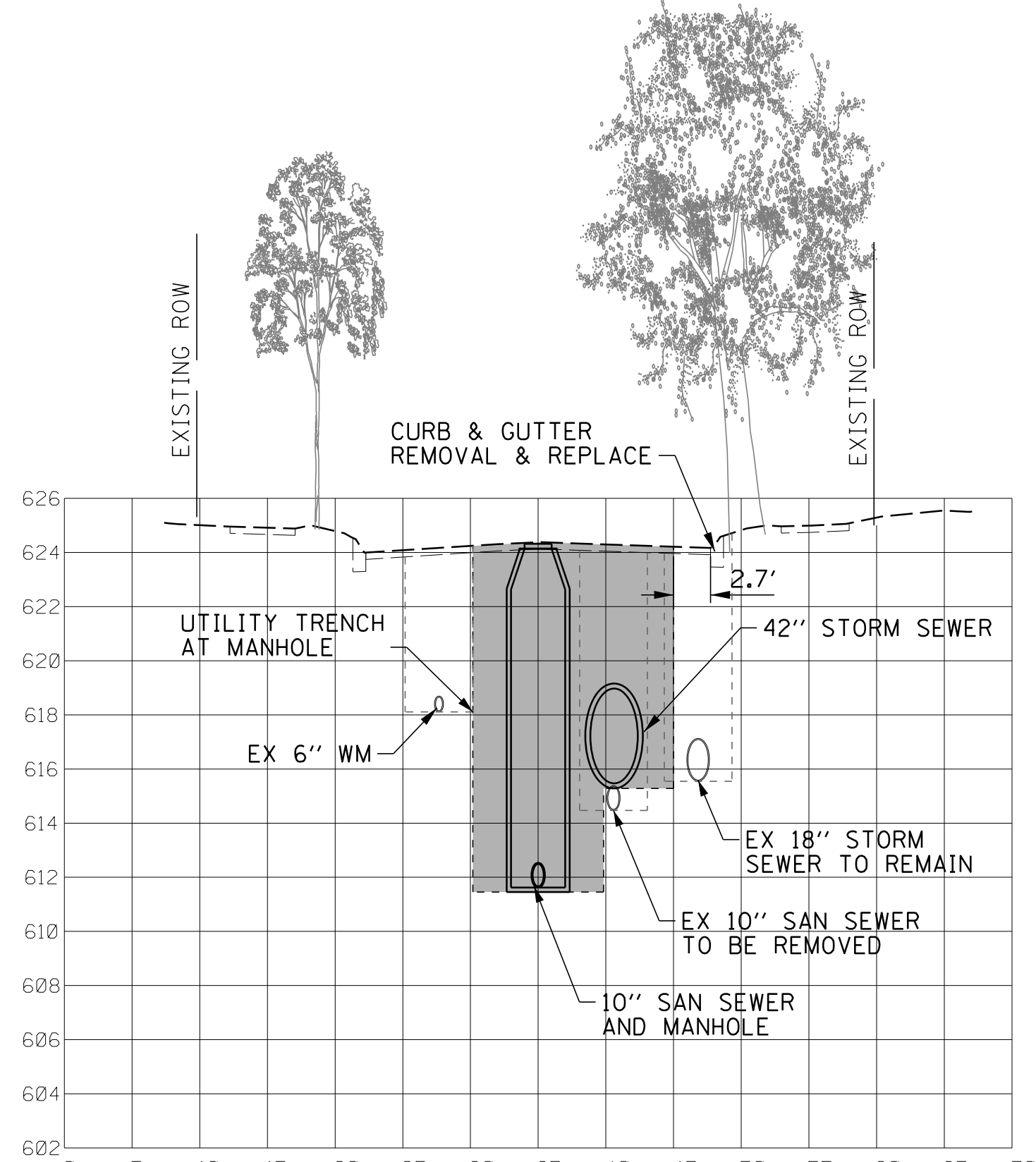
**HUNTER RD  
STA. 22+20**



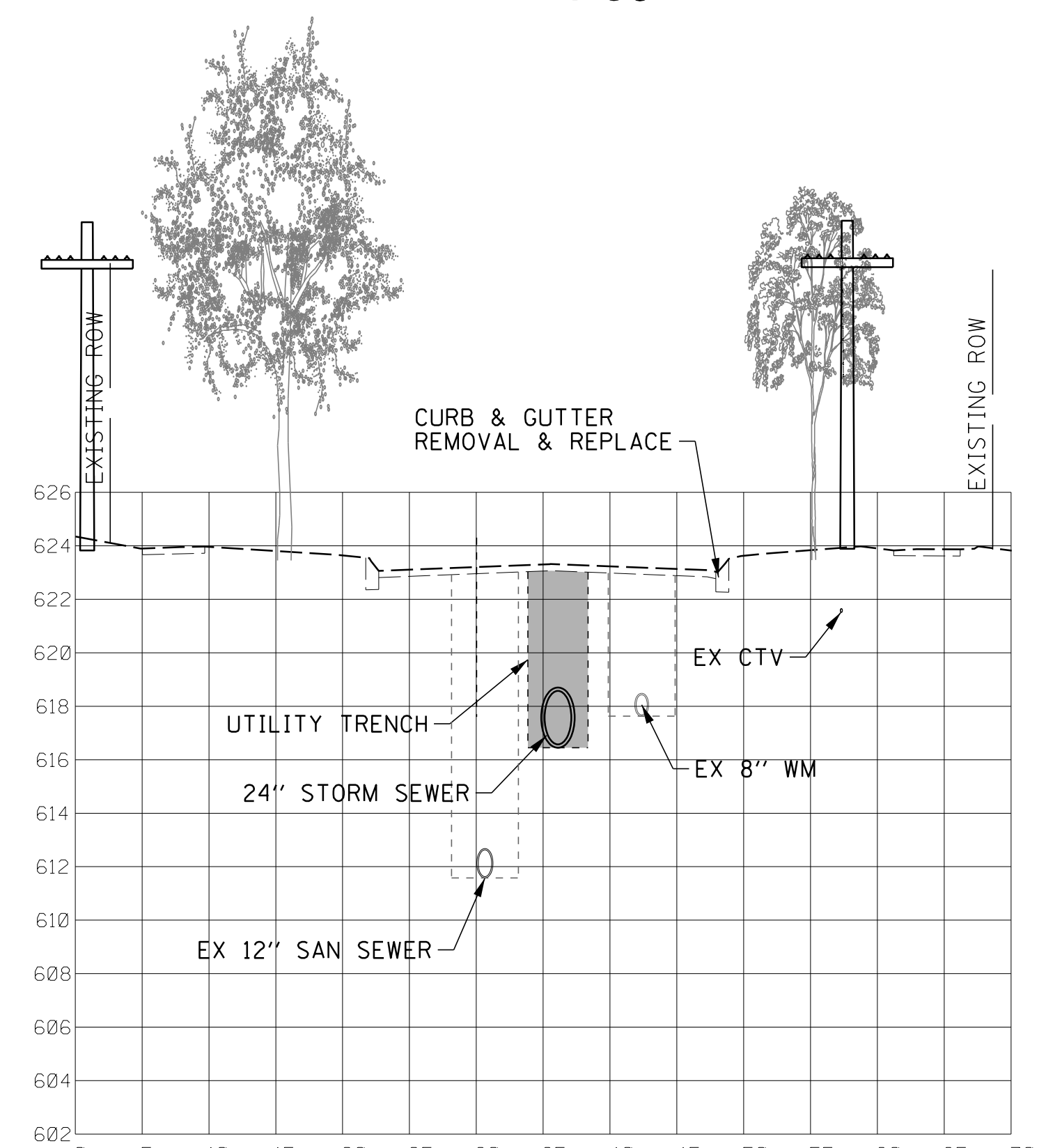
**GREENWOOD AVE.  
STA. 44+00**



**THORNWOOD AVE.  
STA. 68+00**



**BEECHWOOD AVE.  
STA. 76+00**



**21ST STREET  
STA. 92+00**

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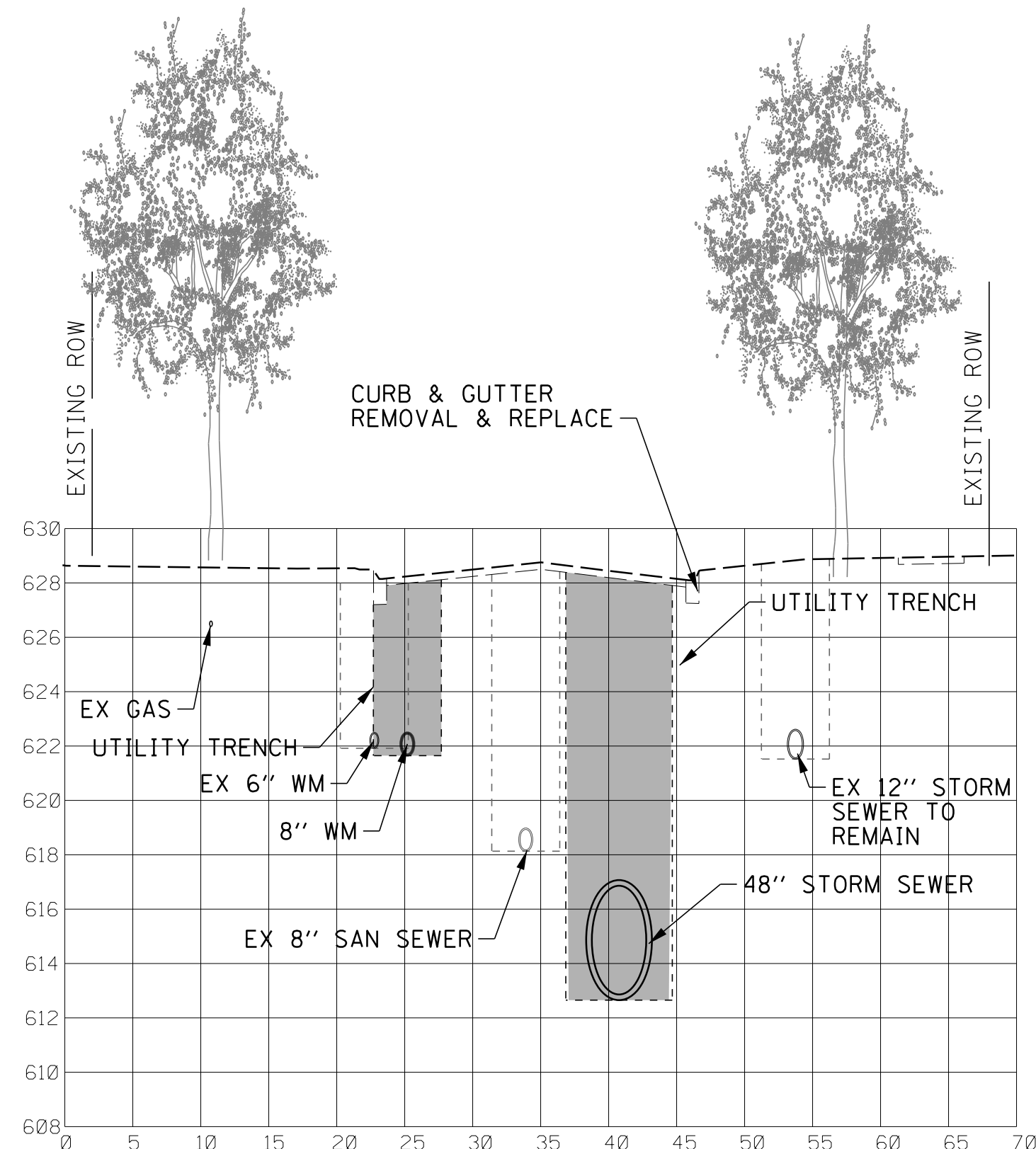
CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
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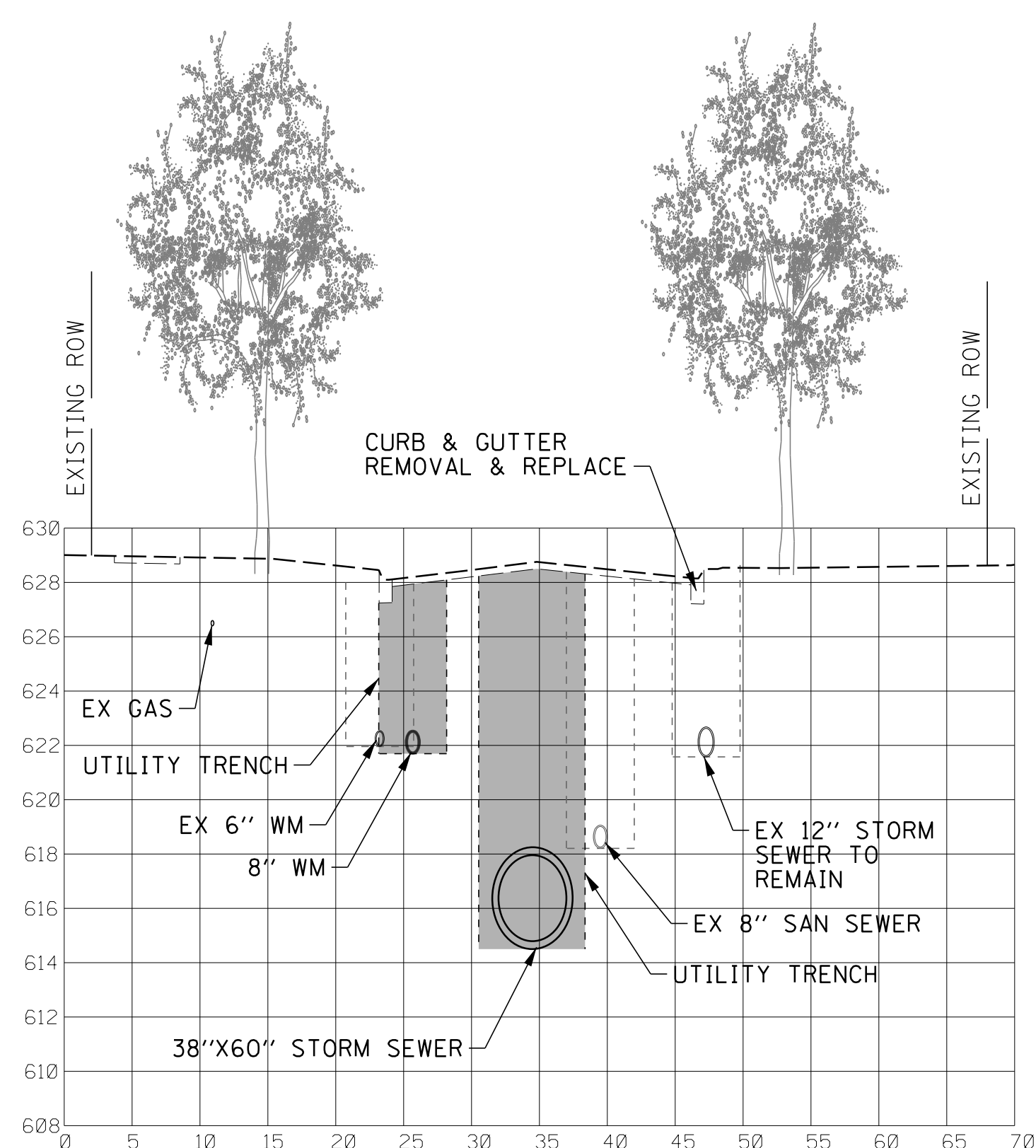
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DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	10/8/2021
CAD USER:	mkoonce
MODEL:	Default

TITLE: **WSNSP CONTRACT #3  
TYPICAL UTILITY SECTIONS**

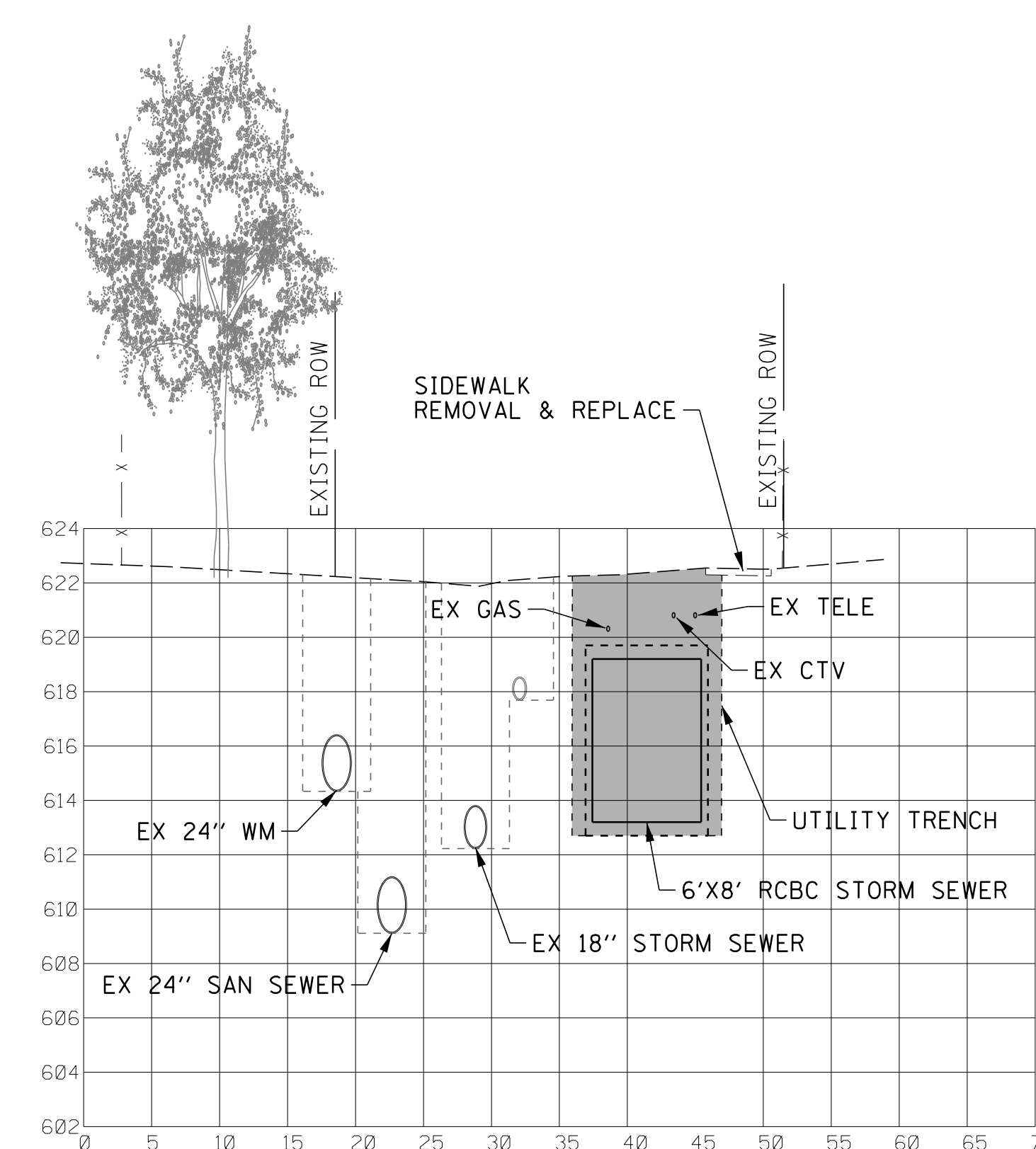
PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 19 OF 207  
 DRAWING NO. **19**



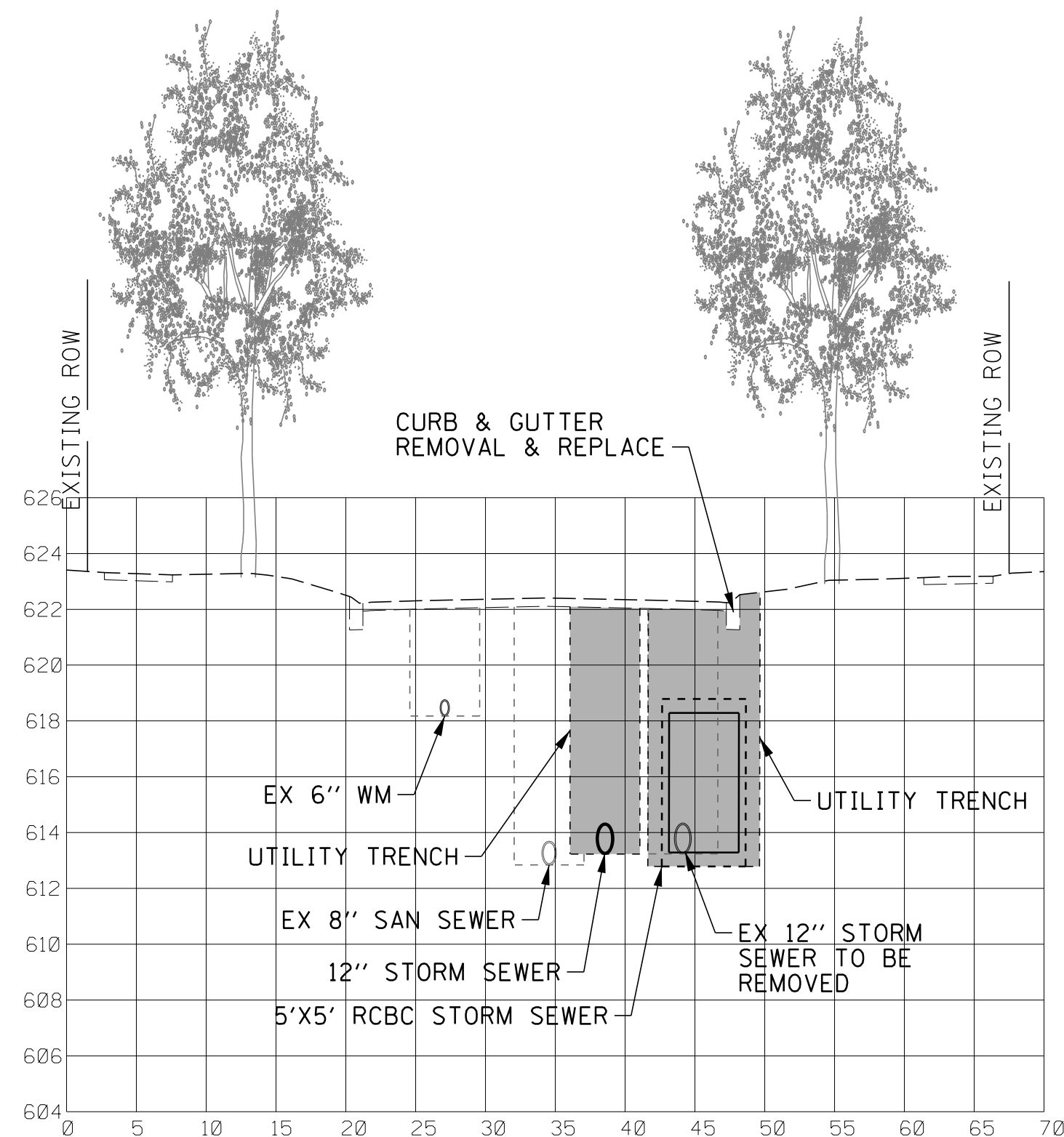
**SCHILLER AV  
STA. 112 + 00**



**SCHILLER AV  
STA. 122 + 00**



**WASHINGTON AV  
STA. 151 + 50**



**HIGHLAND AV  
STA. 173 + 00**

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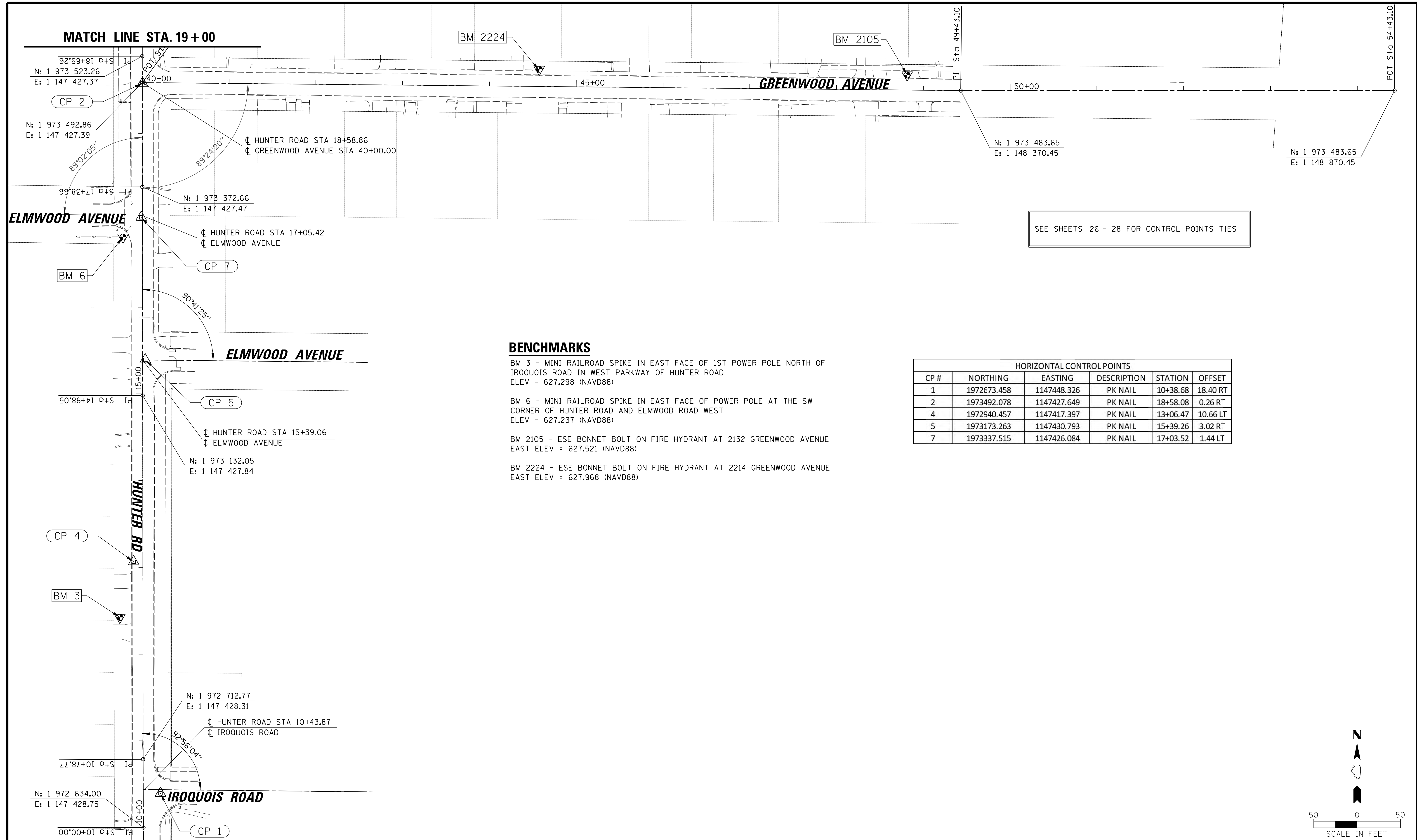


**Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\TYP-C3_180245_01.sht		

DSGN.	JAL	TITLE:
DWN.	MAK	
CHKD.	LMF	
SCALE:	20'	
PLOT DATE:	10/8/2021	
CAD USER:	mkoonce	PROJECT NO. 180245.0004
MODEL:	Default	
		SHEET 20 OF 207
		DRAWING NO.
		<b>20</b>

**WSNSP CONTRACT #3  
TYPICAL UTILITY SECTIONS**



SEE SHEETS 26 - 28 FOR CONTROL POINTS TIES

**BENCHMARKS**

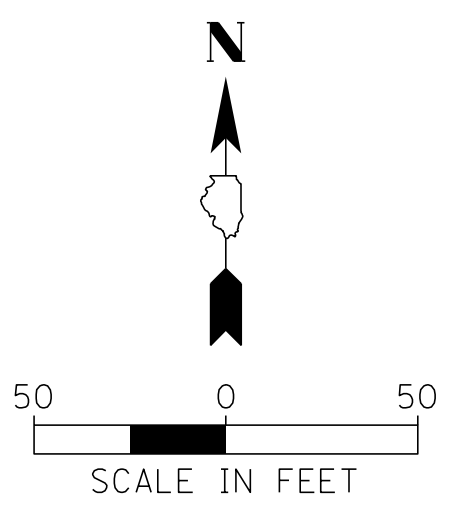
BM 3 - MINI RAILROAD SPIKE IN EAST FACE OF 1ST POWER POLE NORTH OF IROQUOIS ROAD IN WEST PARKWAY OF HUNTER ROAD  
ELEV = 627.298 (NAVD88)

BM 6 - MINI RAILROAD SPIKE IN EAST FACE OF POWER POLE AT THE SW CORNER OF HUNTER ROAD AND ELMWOOD ROAD WEST  
ELEV = 627.237 (NAVD88)

BM 2105 - ESE BONNET BOLT ON FIRE HYDRANT AT 2132 GREENWOOD AVENUE EAST  
ELEV = 627.521 (NAVD88)

BM 2224 - ESE BONNET BOLT ON FIRE HYDRANT AT 2214 GREENWOOD AVENUE EAST  
ELEV = 627.968 (NAVD88)

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
1	1972673.458	1147448.326	PK NAIL	10+38.68	18.40 RT
2	1973492.078	1147427.649	PK NAIL	18+58.08	0.26 RT
4	1972940.457	1147417.397	PK NAIL	13+06.47	10.66 LT
5	1973173.263	1147430.793	PK NAIL	15+39.26	3.02 RT
7	1973337.515	1147426.084	PK NAIL	17+03.52	1.44 LT



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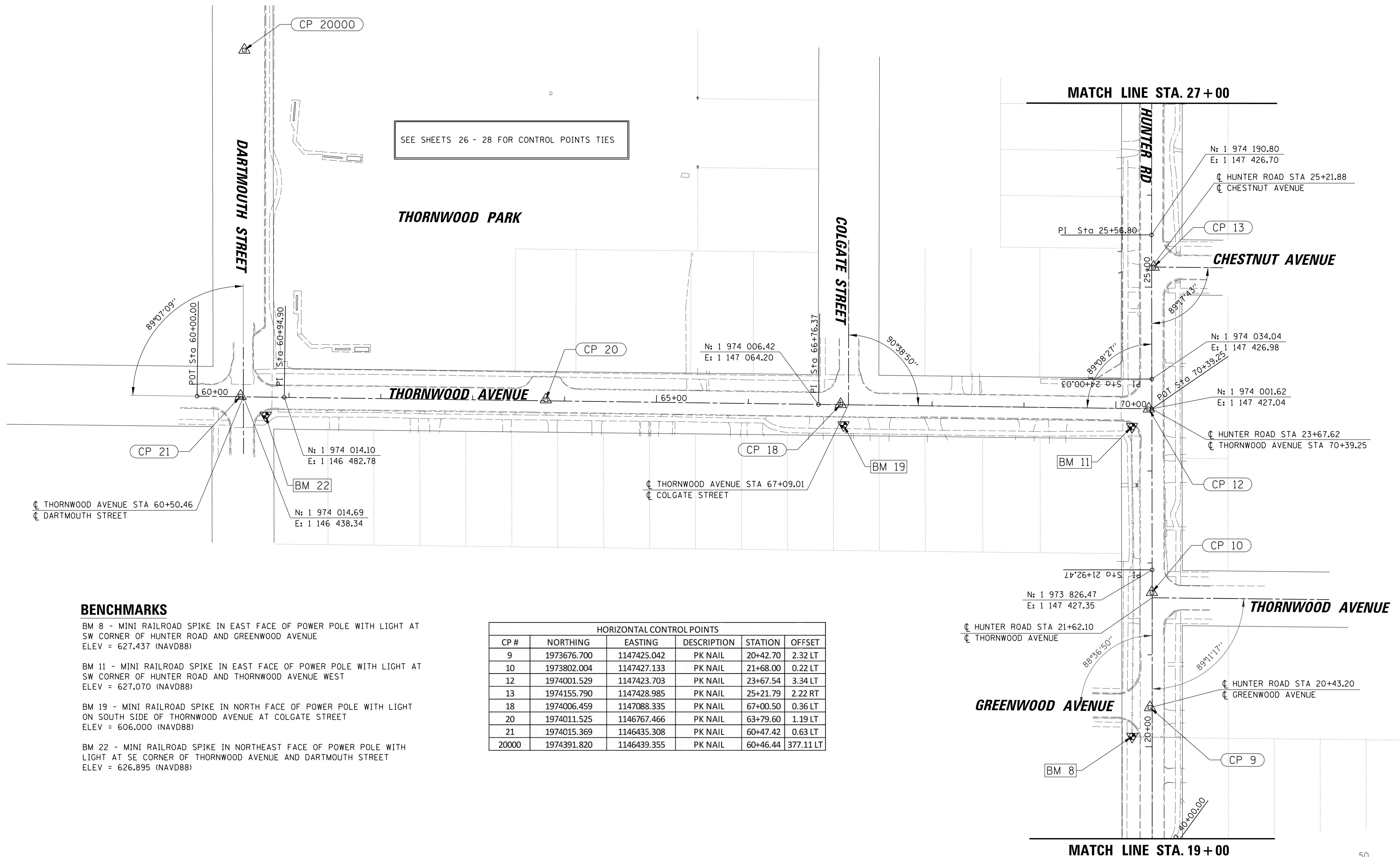


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1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\BNH.C3.180245_01.sht		

TITLE: **WSNSP CONTRACT #3  
ALIGNMENTS, TIES AND BENCHMARKS**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 21 OF 207  
 DRAWING NO. **21**

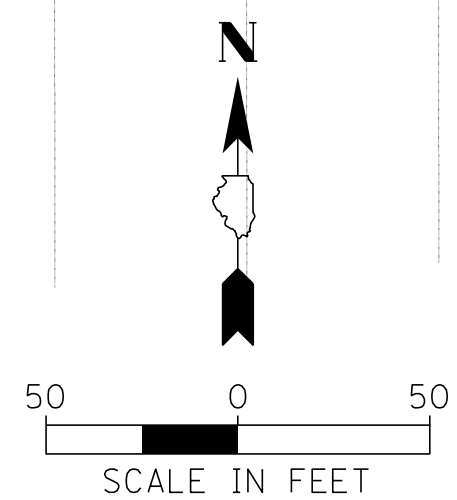


SEE SHEETS 26 - 28 FOR CONTROL POINTS TIES

**BENCHMARKS**

- BM 8 - MINI RAILROAD SPIKE IN EAST FACE OF POWER POLE WITH LIGHT AT SW CORNER OF HUNTER ROAD AND GREENWOOD AVENUE  
ELEV = 627.437 (NAVD88)
- BM 11 - MINI RAILROAD SPIKE IN EAST FACE OF POWER POLE WITH LIGHT AT SW CORNER OF HUNTER ROAD AND THORNWOOD AVENUE WEST  
ELEV = 627.070 (NAVD88)
- BM 19 - MINI RAILROAD SPIKE IN NORTH FACE OF POWER POLE WITH LIGHT ON SOUTH SIDE OF THORNWOOD AVENUE AT COLGATE STREET  
ELEV = 606.000 (NAVD88)
- BM 22 - MINI RAILROAD SPIKE IN NORTHEAST FACE OF POWER POLE WITH LIGHT AT SE CORNER OF THORNWOOD AVENUE AND DARTMOUTH STREET  
ELEV = 626.895 (NAVD88)

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
9	1973676.700	1147425.042	PK NAIL	20+42.70	2.32 LT
10	1973802.004	1147427.133	PK NAIL	21+68.00	0.22 LT
12	1974001.529	1147423.703	PK NAIL	23+67.54	3.34 LT
13	1974155.790	1147428.985	PK NAIL	25+21.79	2.22 RT
18	1974006.459	1147088.335	PK NAIL	67+00.50	0.36 LT
20	1974011.525	1146767.466	PK NAIL	63+79.60	1.19 LT
21	1974015.369	1146435.308	PK NAIL	60+47.42	0.63 LT
20000	1974391.820	1146439.355	PK NAIL	60+46.44	377.11 LT



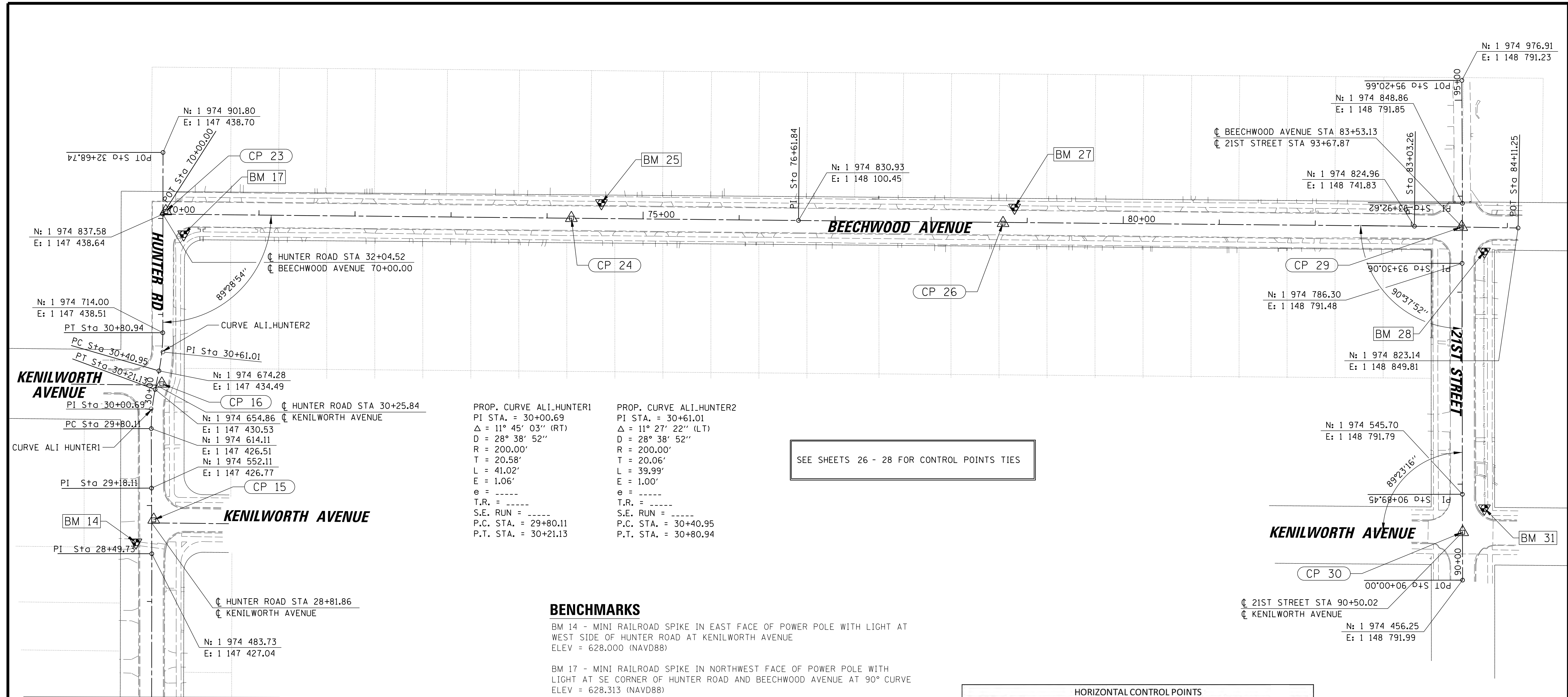
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
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 (847) 823-0500

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

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1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
		NATURE OF REVISION		

TITLE: **WSNSP CONTRACT #3  
 ALIGNMENTS, TIES AND BENCHMARKS**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 22 OF 207  
 DRAWING NO. **22**



PROP. CURVE ALI\_HUNTER1  
 PI STA. = 30+00.69  
 $\Delta = 11^\circ 45' 03''$  (RT)  
 $D = 28^\circ 38' 52''$   
 $R = 200.00'$   
 $T = 20.58'$   
 $L = 41.02'$   
 $E = 1.06'$   
 $e = \text{----}$   
 $T.R. = \text{----}$   
 $S.E. RUN = \text{----}$   
 $P.C. STA. = 29+80.11$   
 $P.T. STA. = 30+21.13$

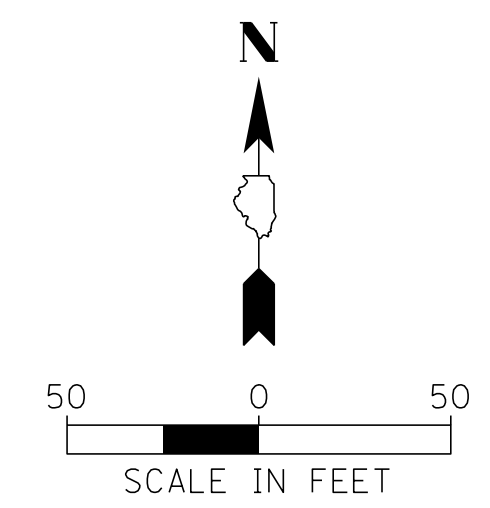
PROP. CURVE ALI\_HUNTER2  
 PI STA. = 30+61.01  
 $\Delta = 11^\circ 27' 22''$  (LT)  
 $D = 28^\circ 38' 52''$   
 $R = 200.00'$   
 $T = 20.06'$   
 $L = 39.99'$   
 $E = 1.00'$   
 $e = \text{----}$   
 $T.R. = \text{----}$   
 $S.E. RUN = \text{----}$   
 $P.C. STA. = 30+40.95$   
 $P.T. STA. = 30+80.94$

SEE SHEETS 26 - 28 FOR CONTROL POINTS TIES

**BENCHMARKS**

- BM 14 - MINI RAILROAD SPIKE IN EAST FACE OF POWER POLE WITH LIGHT AT WEST SIDE OF HUNTER ROAD AT KENILWORTH AVENUE  
ELEV = 628.000 (NAVD88)
- BM 17 - MINI RAILROAD SPIKE IN NORTHWEST FACE OF POWER POLE WITH LIGHT AT SE CORNER OF HUNTER ROAD AND BEECHWOOD AVENUE AT 90° CURVE  
ELEV = 628.313 (NAVD88)
- BM 25 - SE BONNET BOLT ON FIRE HYDRANT AT 2310 BEECHWOOD AVENUE  
ELEV = 626.999 (NAVD88)
- BM 27 - SE BONNET BOLT ON FIRE HYDRANT AT 2132 BEECHWOOD AVENUE  
ELEV = 625.045 (NAVD88)
- BM 28 - MINI RAILROAD SPIKE IN WEST FACE OF POWER POLE WITH LIGHT AT SE CORNER OF BEECHWOOD AVENUE AND 21ST STREET  
ELEV = 624.139 (NAVD88)
- BM 31 - MINI RAILROAD SPIKE IN WEST FACE OF POWER POLE WITH LIGHT AT NE CORNER OF KENILWORTH AVENUE AND 21ST STREET  
ELEV = 624.380 (NAVD88)

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
15	1974519.035	1147429.072	PK NAIL	28+85.03	2.17 RT
16	1974660.785	1147437.471	PK NAIL	30+28.32	5.62 RT
23	1974840.418	1147441.662	PK NAIL	70+03.00	2.87 LT
24	1974833.326	1147863.965	PK NAIL	74+25.35	0.02 LT
26	1974828.139	1148313.454	PK NAIL	78+74.87	0.81 RT
29	1974823.998	1148791.057	PK NAIL	83+52.49	0.13 RT
30	1974506.124	1148792.079	PK NAIL	90+49.88	0.20 RT



MATCH LINE STA. 27 + 00

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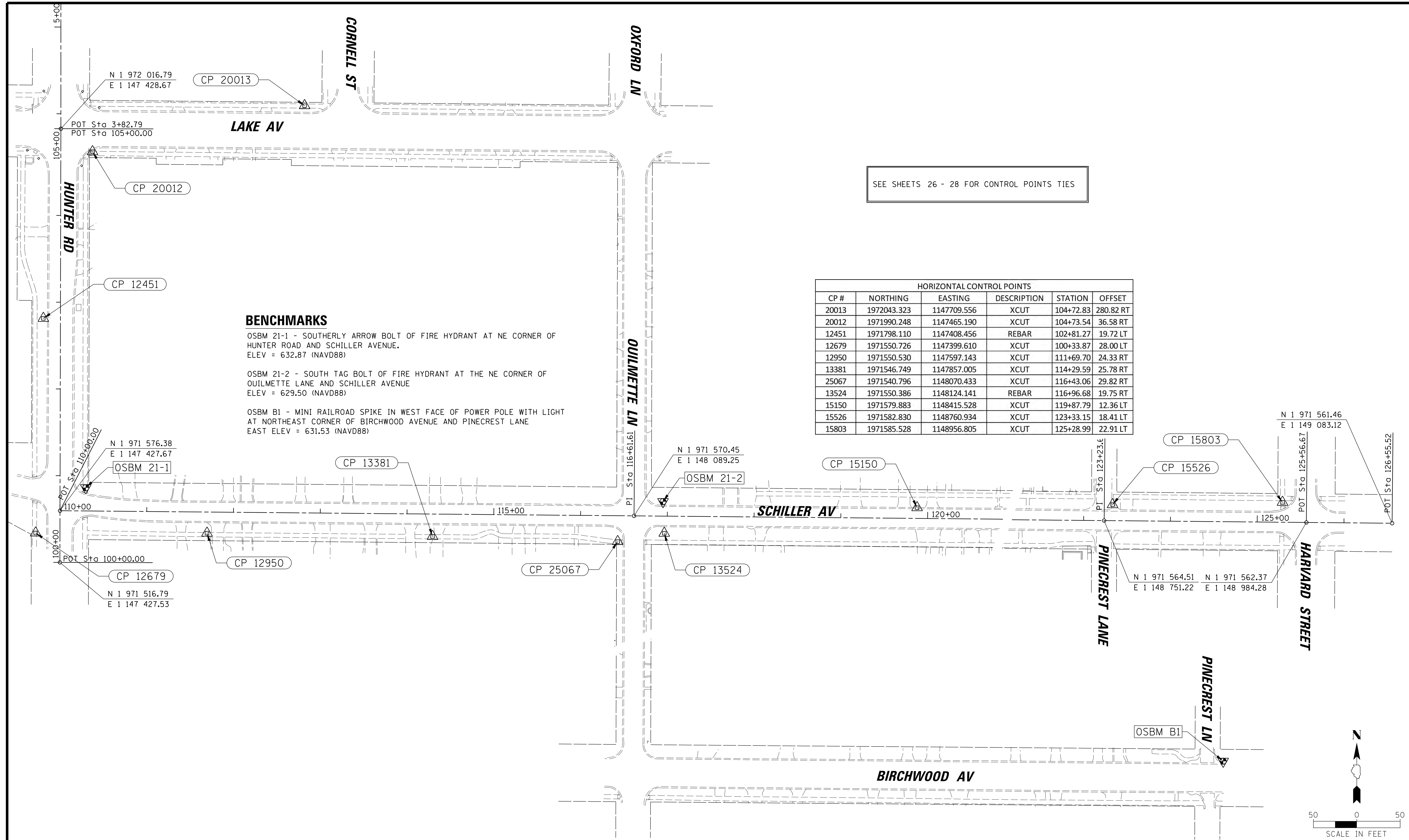
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\BNH.C3.180245_03.sht		

TITLE: **WSNSP CONTRACT #3**  
**ALIGNMENTS, TIES AND BENCHMARKS**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 23 OF 207  
 DRAWING NO.  
**23**



SEE SHEETS 26 - 28 FOR CONTROL POINTS TIES

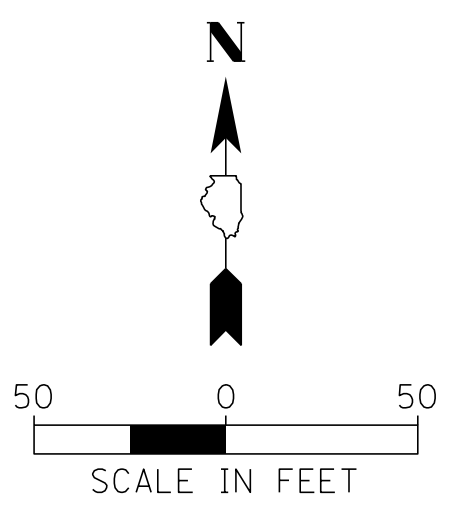
**BENCHMARKS**

OSBM 21-1 - SOUTHERLY ARROW BOLT OF FIRE HYDRANT AT NE CORNER OF HUNTER ROAD AND SCHILLER AVENUE.  
ELEV = 632.87 (NAVD88)

OSBM 21-2 - SOUTH TAG BOLT OF FIRE HYDRANT AT THE NE CORNER OF OUILMETTE LANE AND SCHILLER AVENUE  
ELEV = 629.50 (NAVD88)

OSBM B1 - MINI RAILROAD SPIKE IN WEST FACE OF POWER POLE WITH LIGHT AT NORTHEAST CORNER OF BIRCHWOOD AVENUE AND PINECREST LANE  
EAST ELEV = 631.53 (NAVD88)

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
20013	1972043.323	1147709.556	XCUT	104+72.83	280.82 RT
20012	1971990.248	1147465.190	XCUT	104+73.54	36.58 RT
12451	1971798.110	1147408.456	REBAR	102+81.27	19.72 LT
12679	1971550.726	1147399.610	XCUT	100+33.87	28.00 LT
12950	1971550.530	1147597.143	XCUT	111+69.70	24.33 RT
13381	1971546.749	1147857.005	XCUT	114+29.59	25.78 RT
25067	1971540.796	1148070.433	XCUT	116+43.06	29.82 RT
13524	1971550.386	1148124.141	REBAR	116+96.68	19.75 RT
15150	1971579.883	1148415.528	XCUT	119+87.79	12.36 LT
15526	1971582.830	1148760.934	XCUT	123+33.15	18.41 LT
15803	1971585.528	1148956.805	XCUT	125+28.99	22.91 LT



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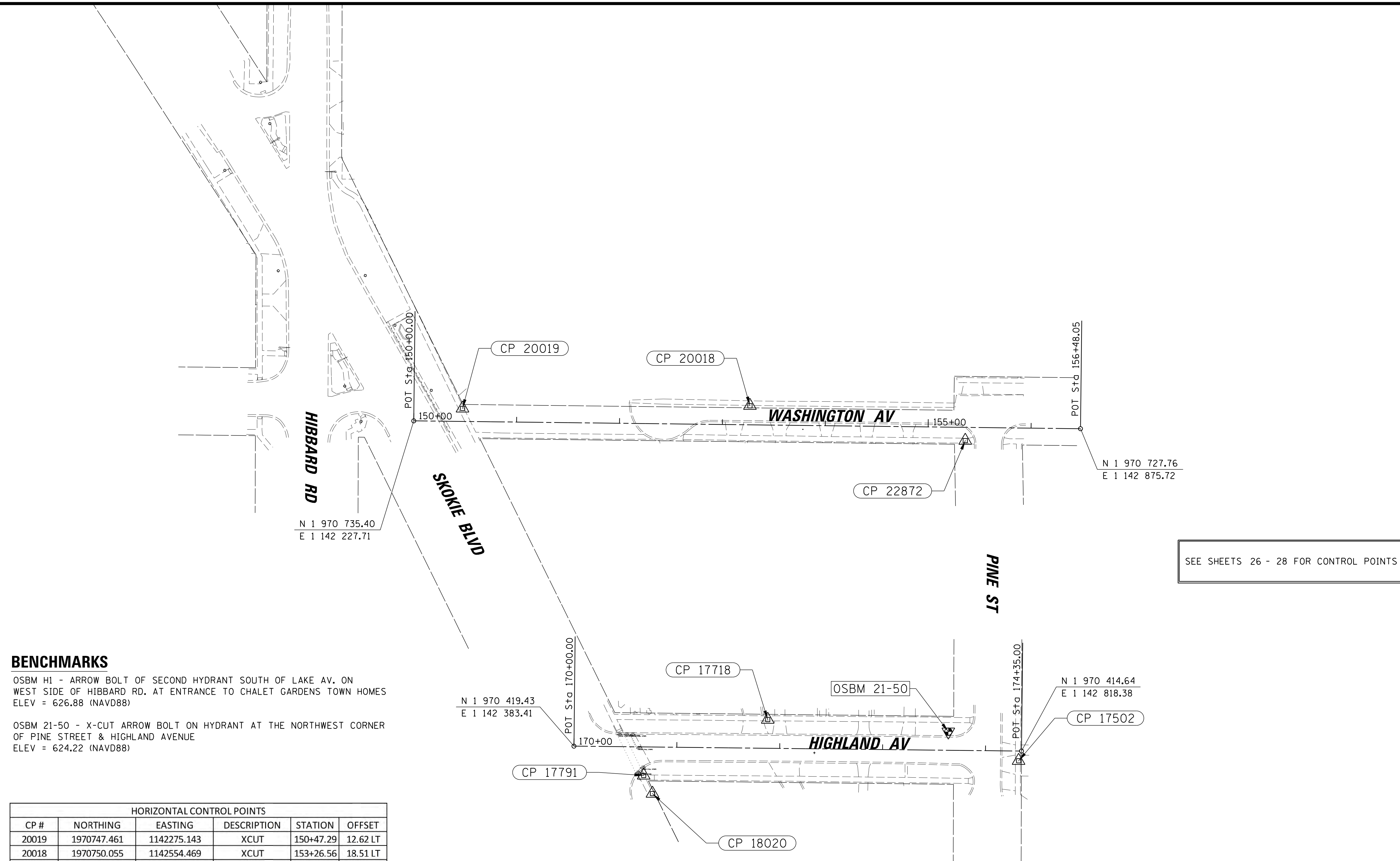
CLIENT:  **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

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TITLE: **WSNSP CONTRACT #3  
ALIGNMENTS, TIES AND BENCHMARKS**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 24 OF 207  
DRAWING NO. **24**





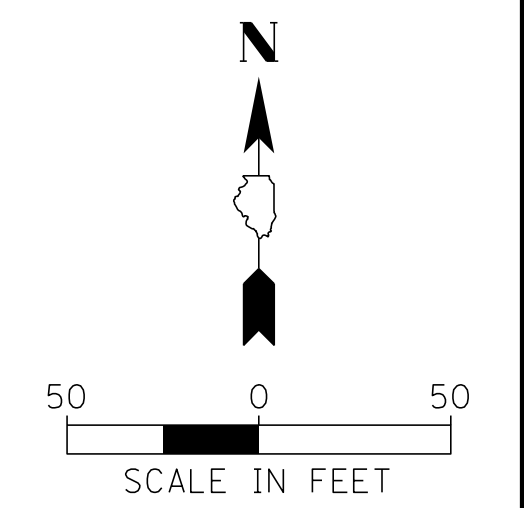
SEE SHEETS 26 - 28 FOR CONTROL POINTS TIES

**BENCHMARKS**

OSBM HI - ARROW BOLT OF SECOND HYDRANT SOUTH OF LAKE AV. ON WEST SIDE OF HIBBARD RD. AT ENTRANCE TO CHALET GARDENS TOWN HOMES ELEV = 626.88 (NAVD88)

OSBM 21-50 - X-CUT ARROW BOLT ON HYDRANT AT THE NORTHWEST CORNER OF PINE STREET & HIGHLAND AVENUE ELEV = 624.22 (NAVD88)

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
20019	1970747.461	1142275.143	X CUT	150+47.29	12.62 LT
20018	1970750.055	1142554.469	X CUT	153+26.56	18.51 LT
22872	1970716.165	1142763.734	X CUT	155+36.21	12.91 RT
17791	1970390.957	1142451.174	X CUT	170+68.08	27.72 RT
18020	1970373.303	1142459.736	X CUT	170+76.83	45.28 RT
17718	1970445.112	1142571.723	X CUT	171+88.02	27.76 LT
17502	1970405.172	1142815.571	X CUT	174+32.29	9.50 RT



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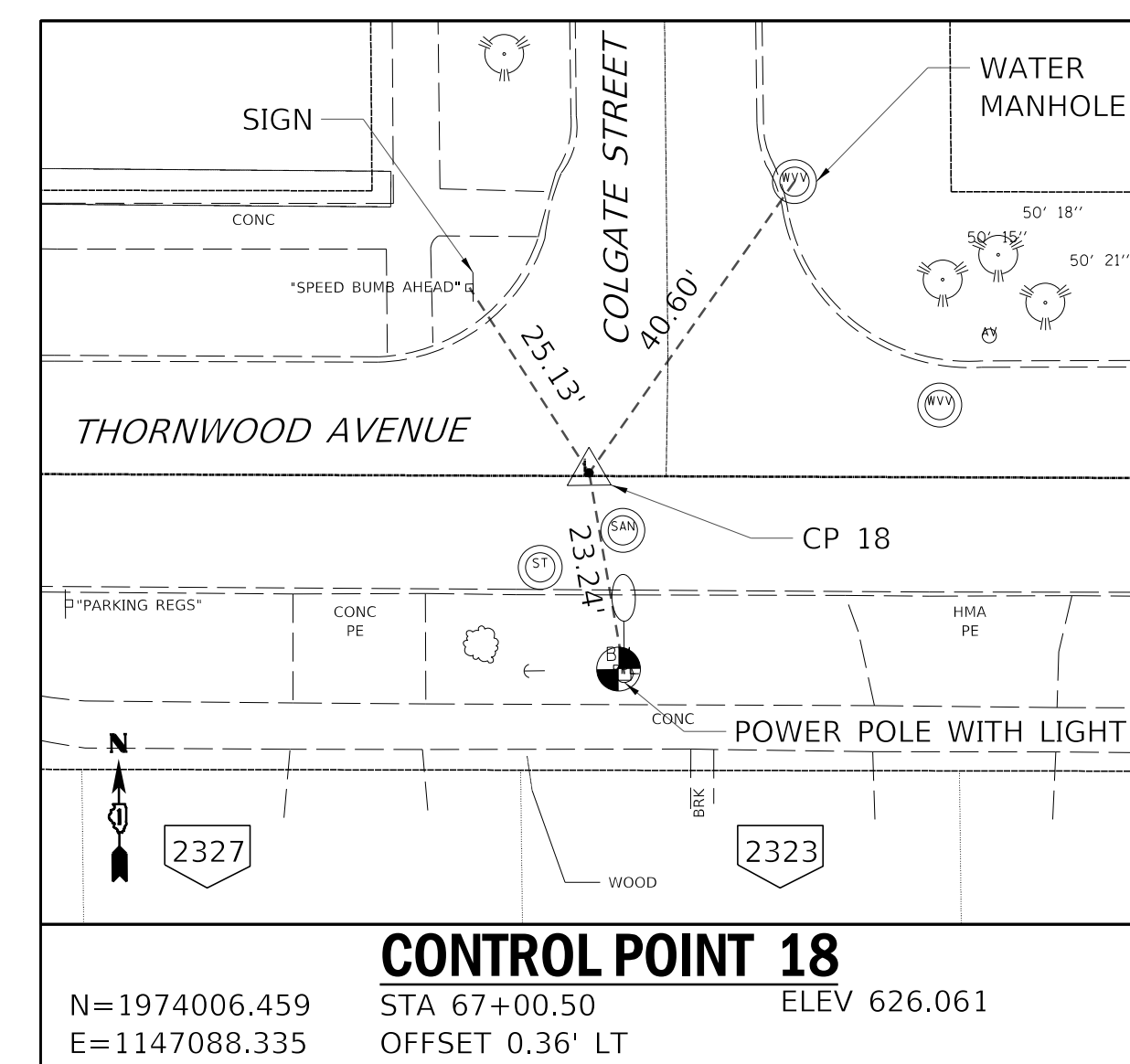
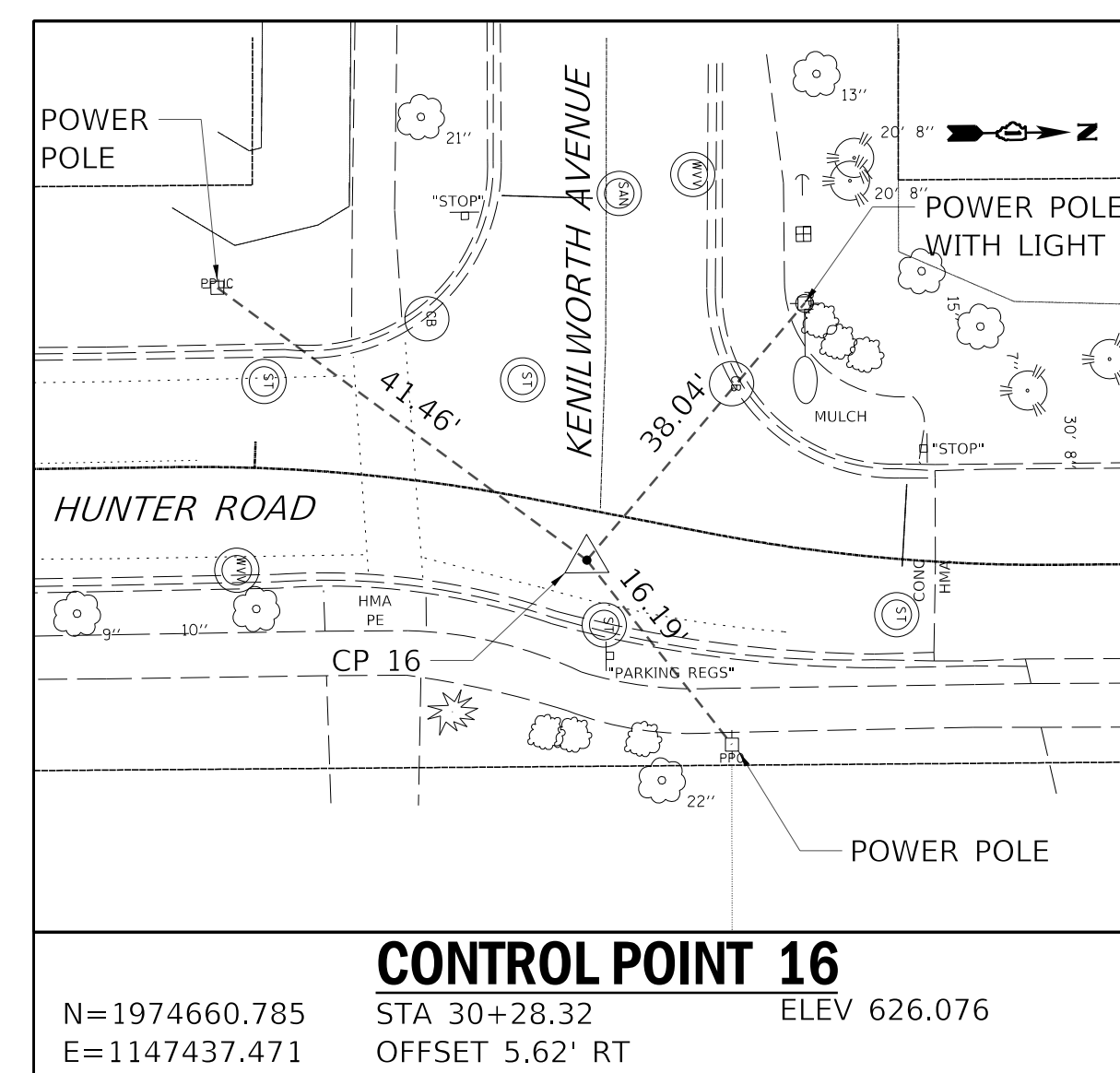
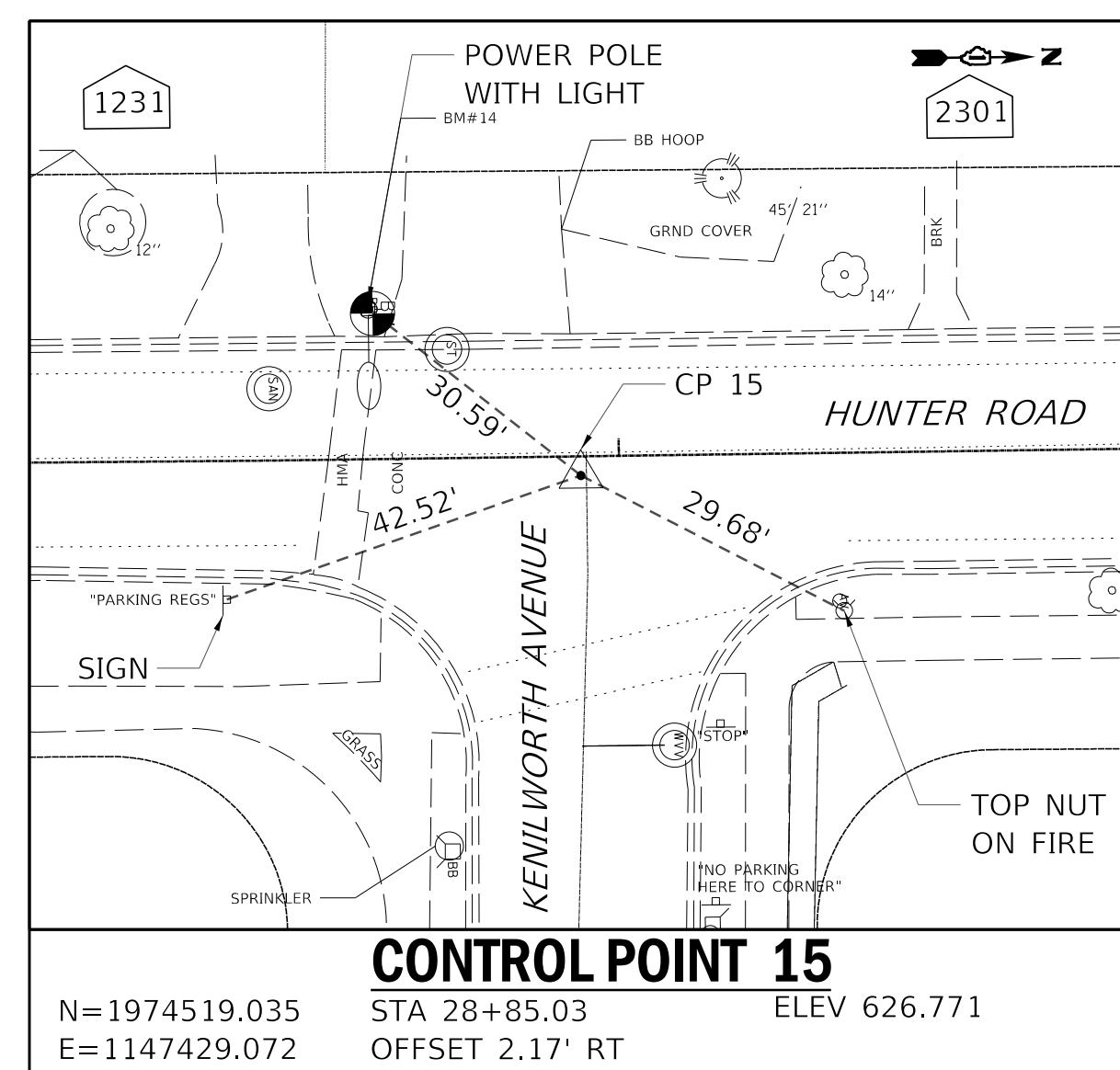
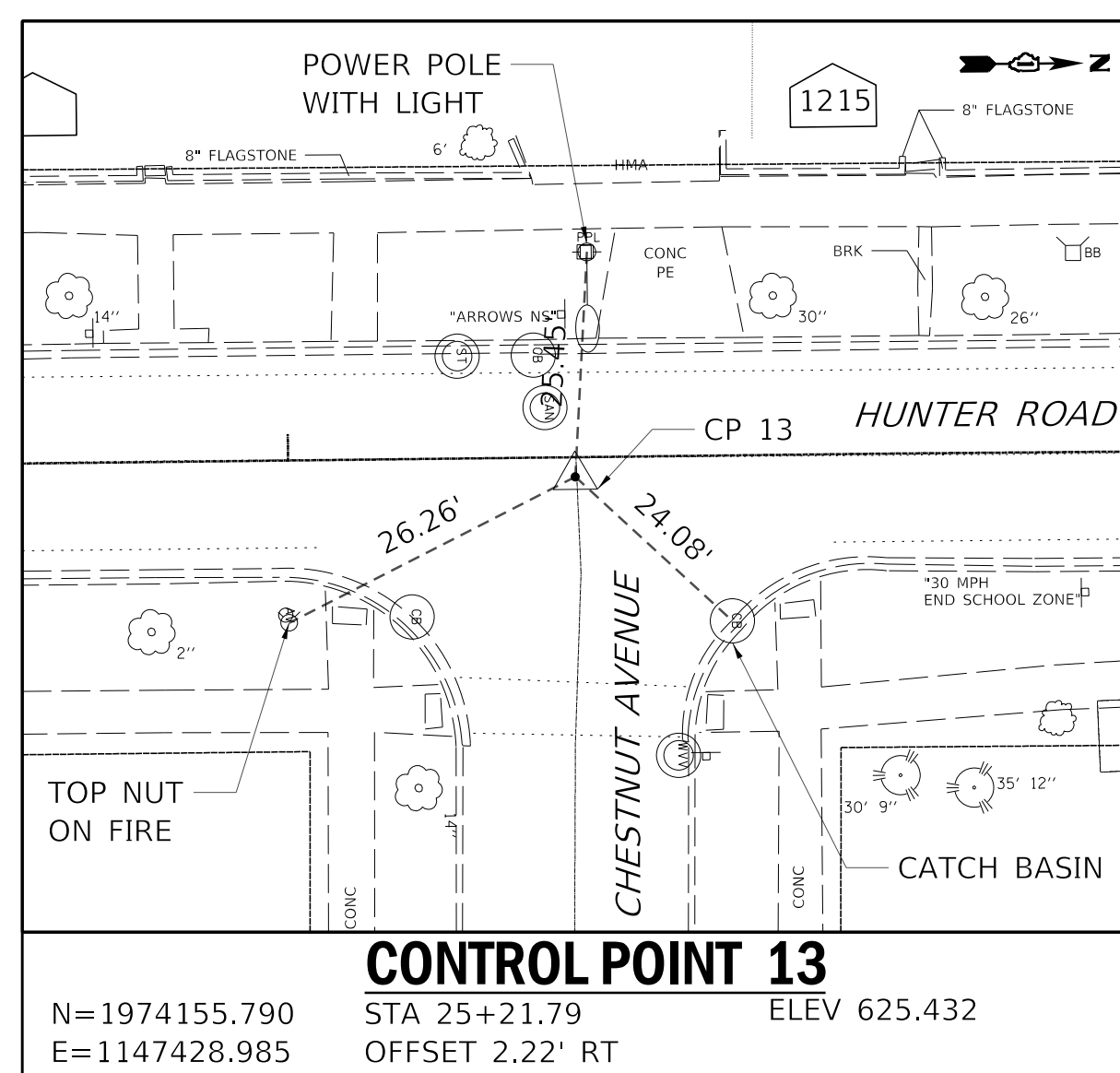
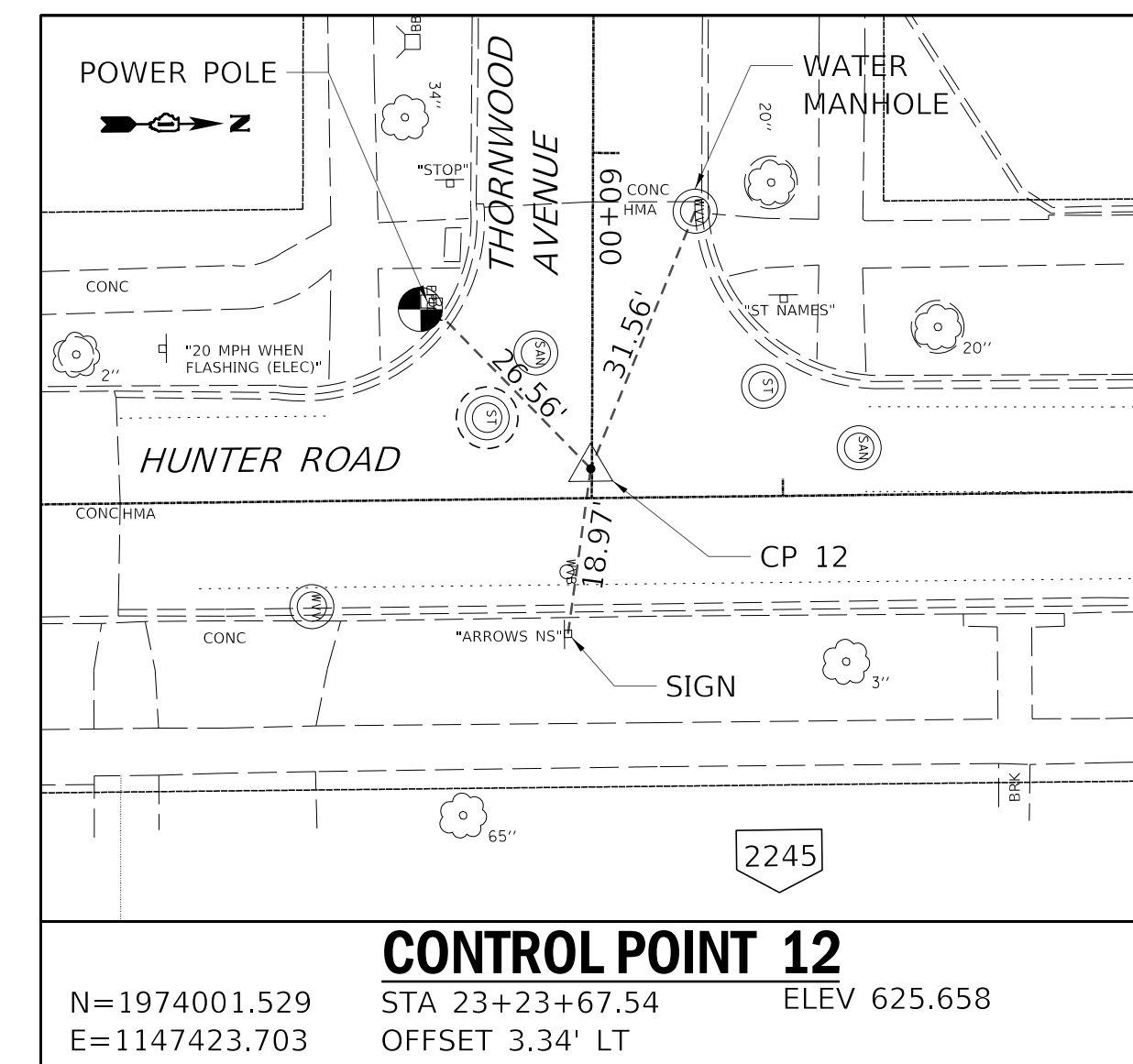
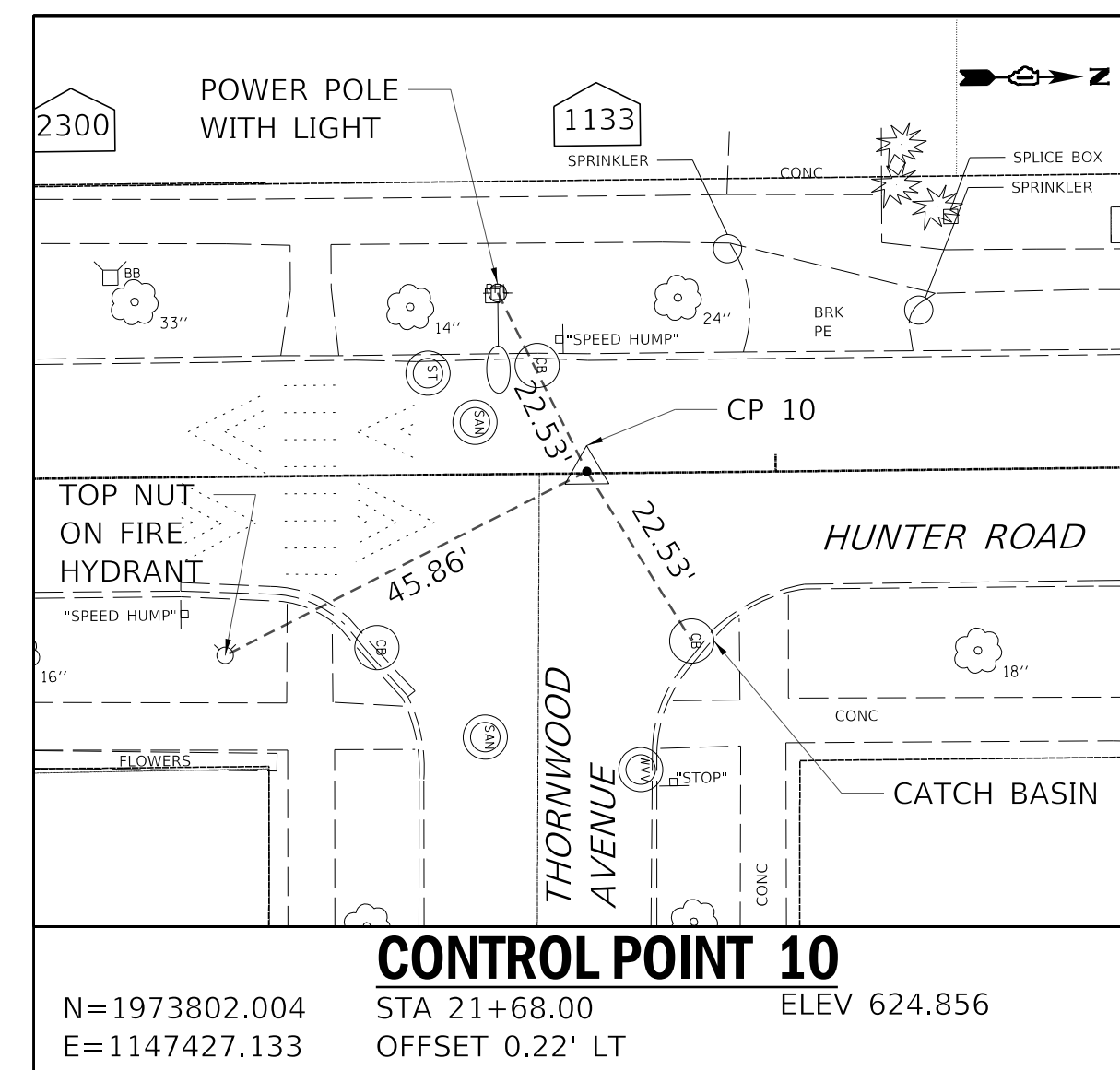
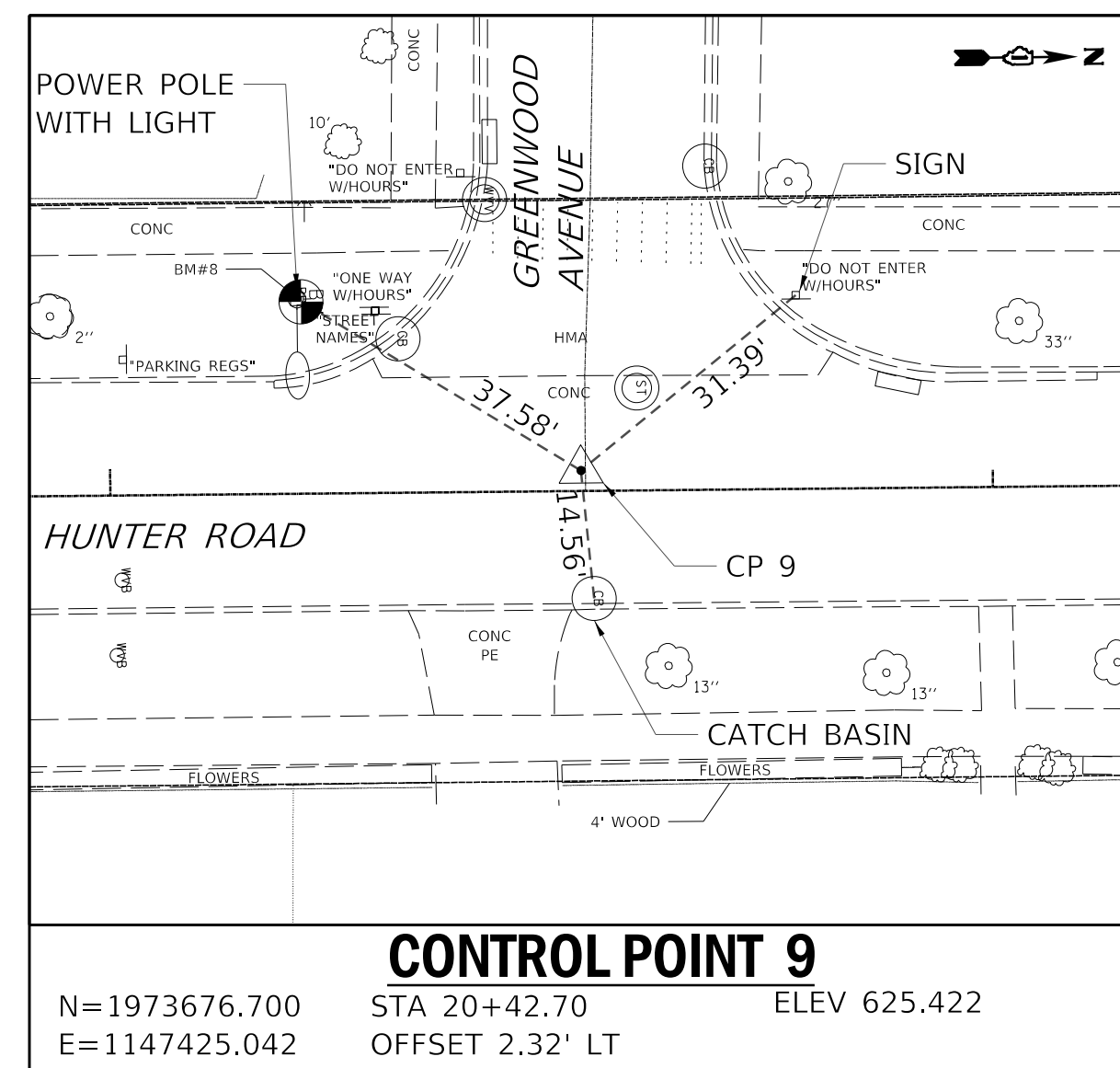
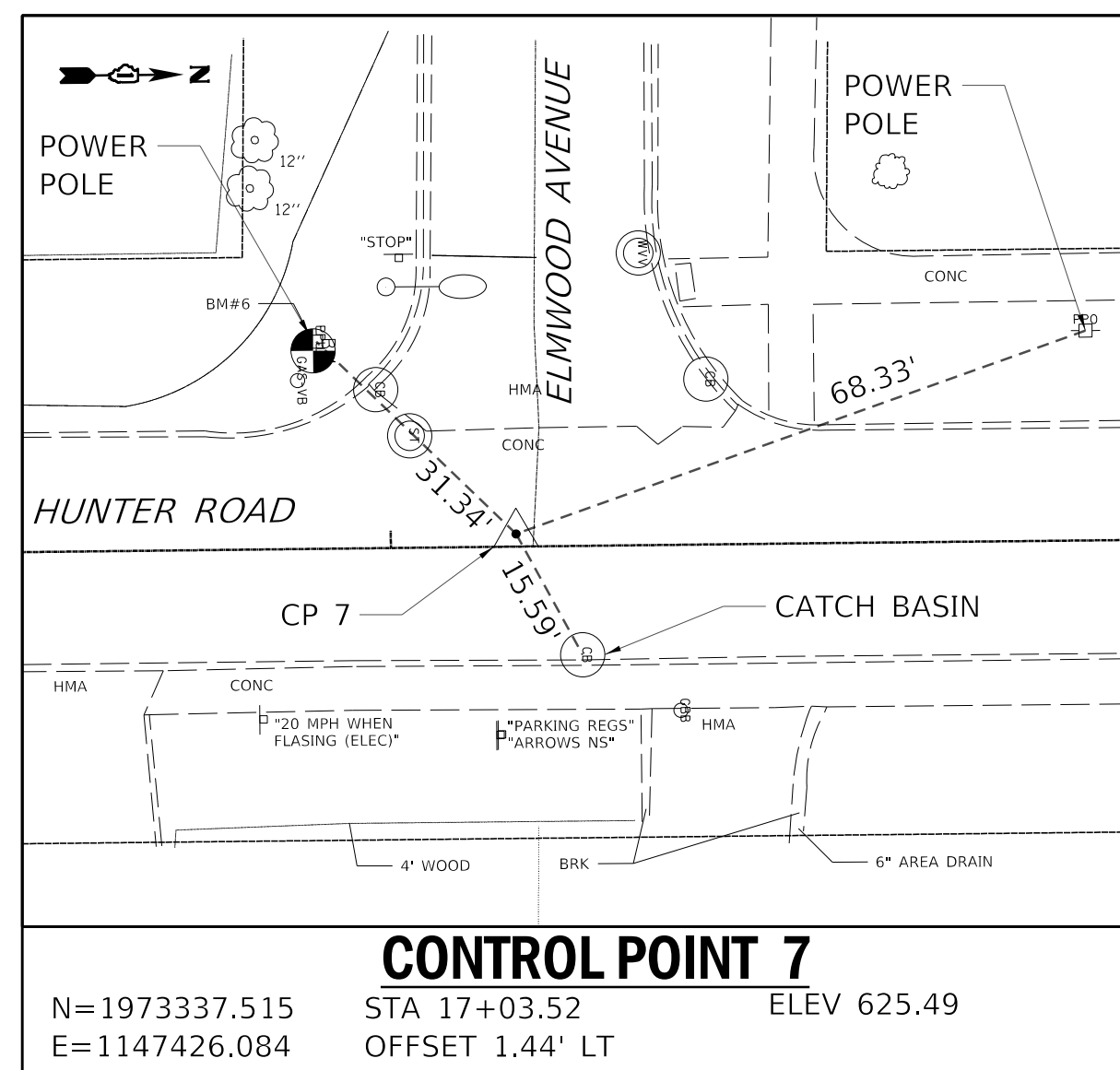
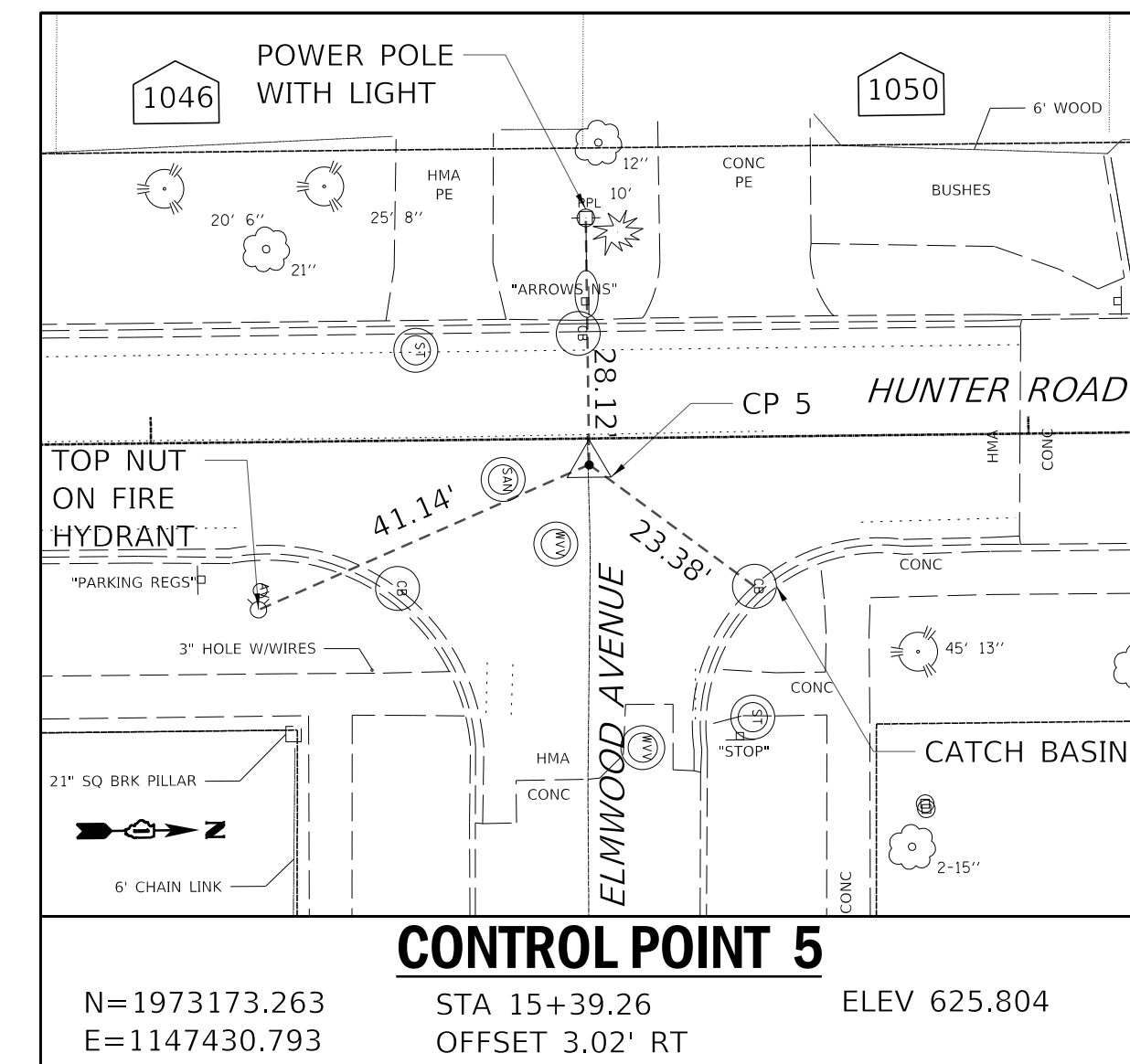
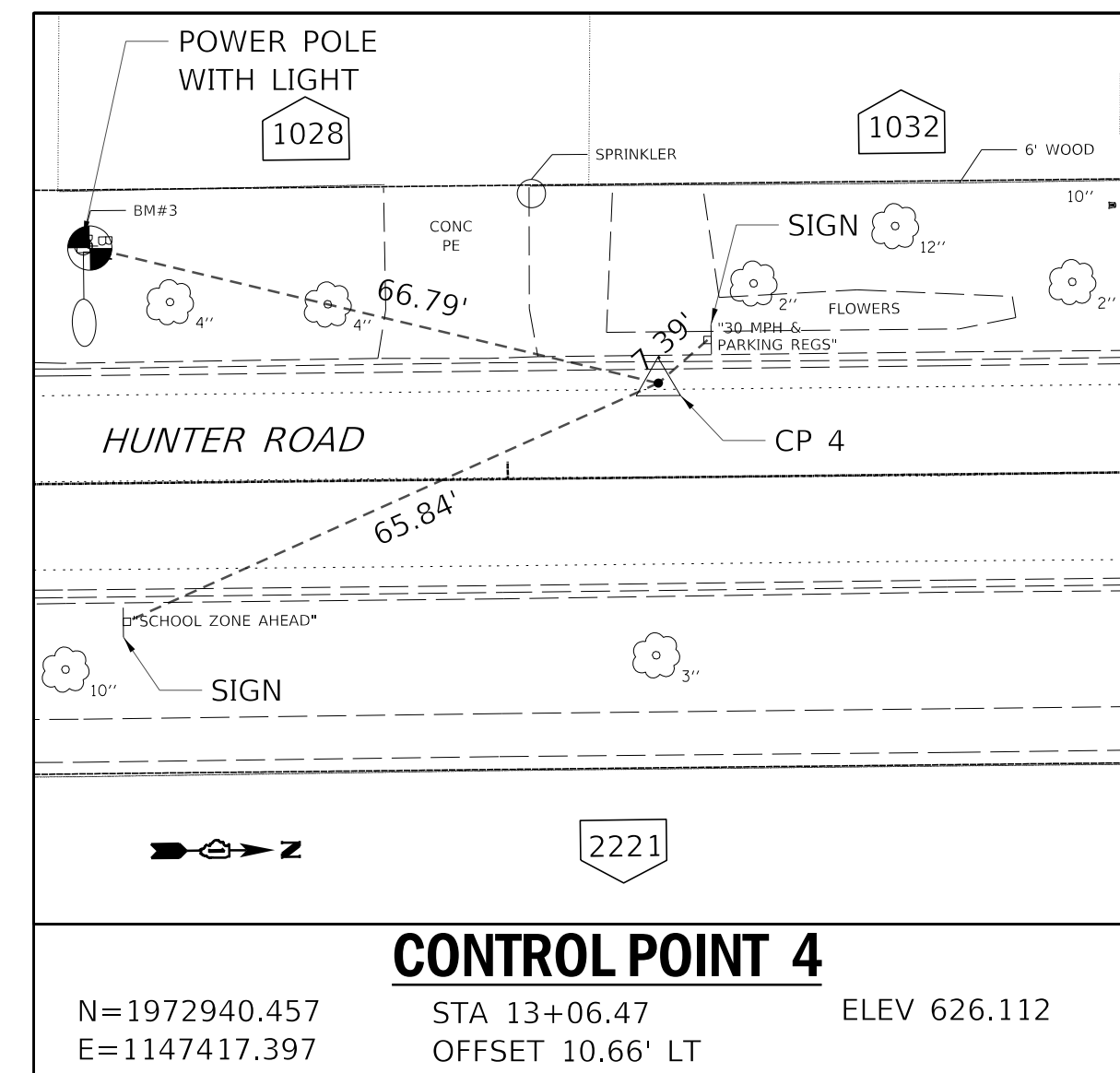
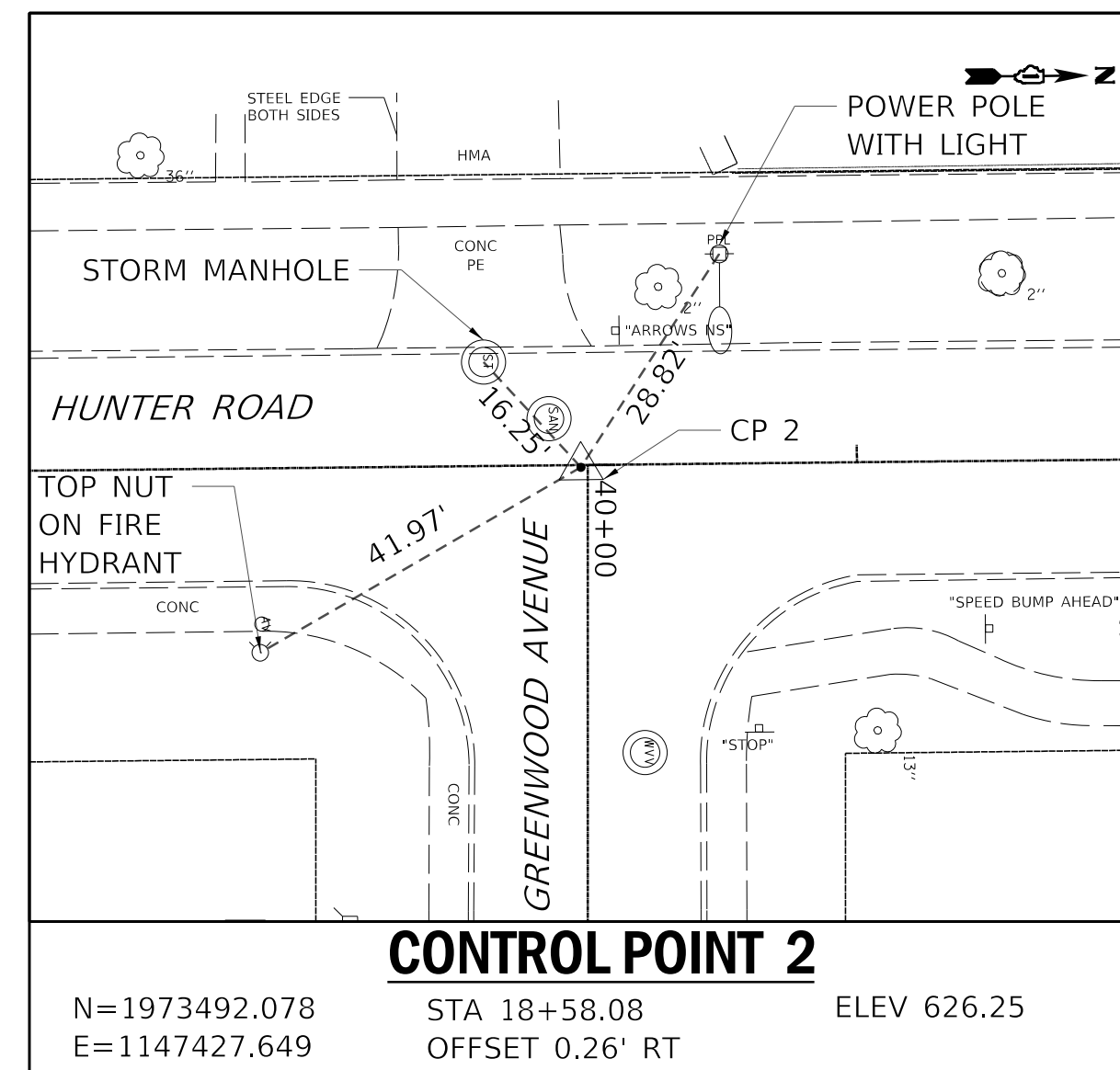
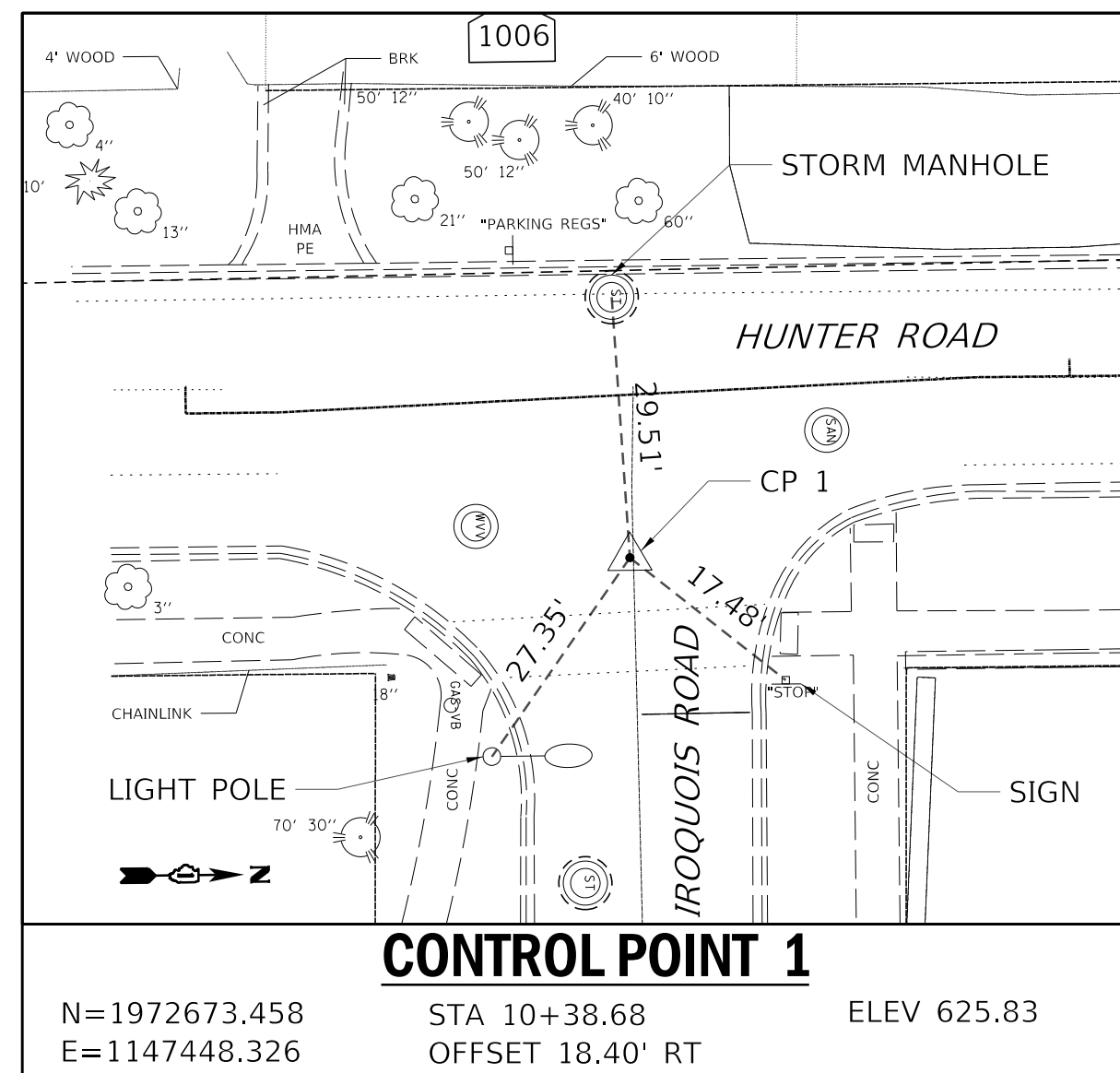
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

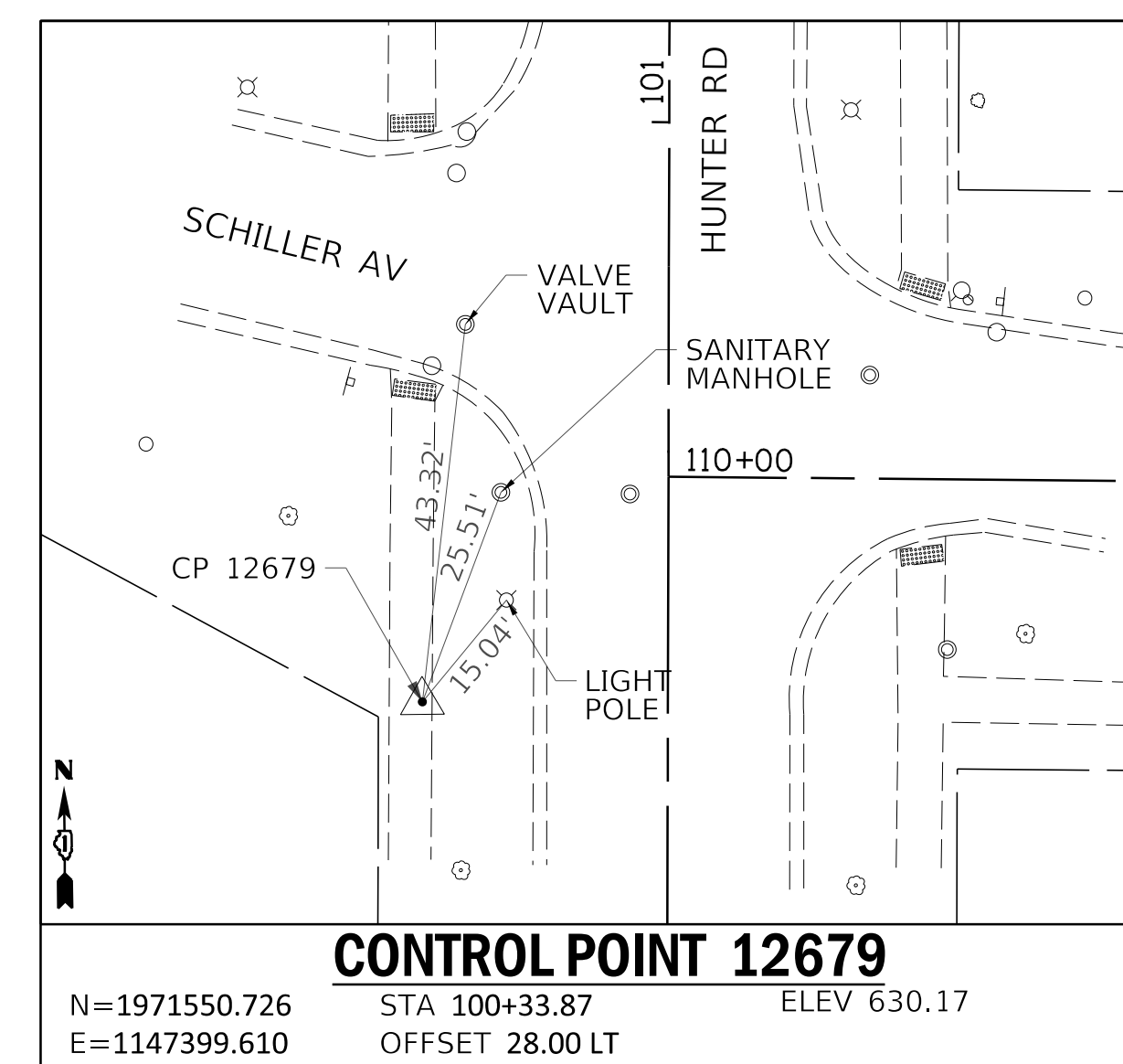
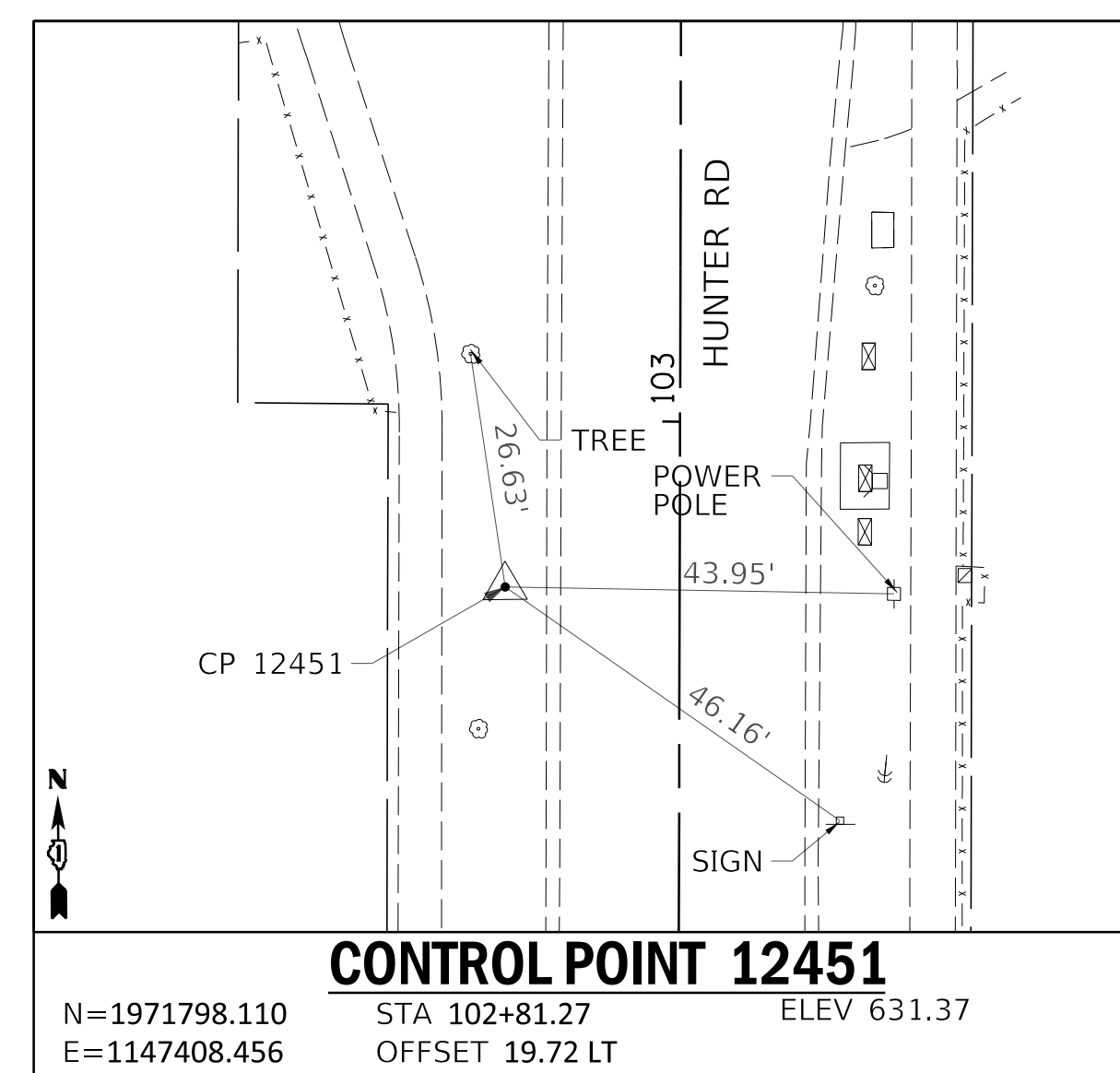
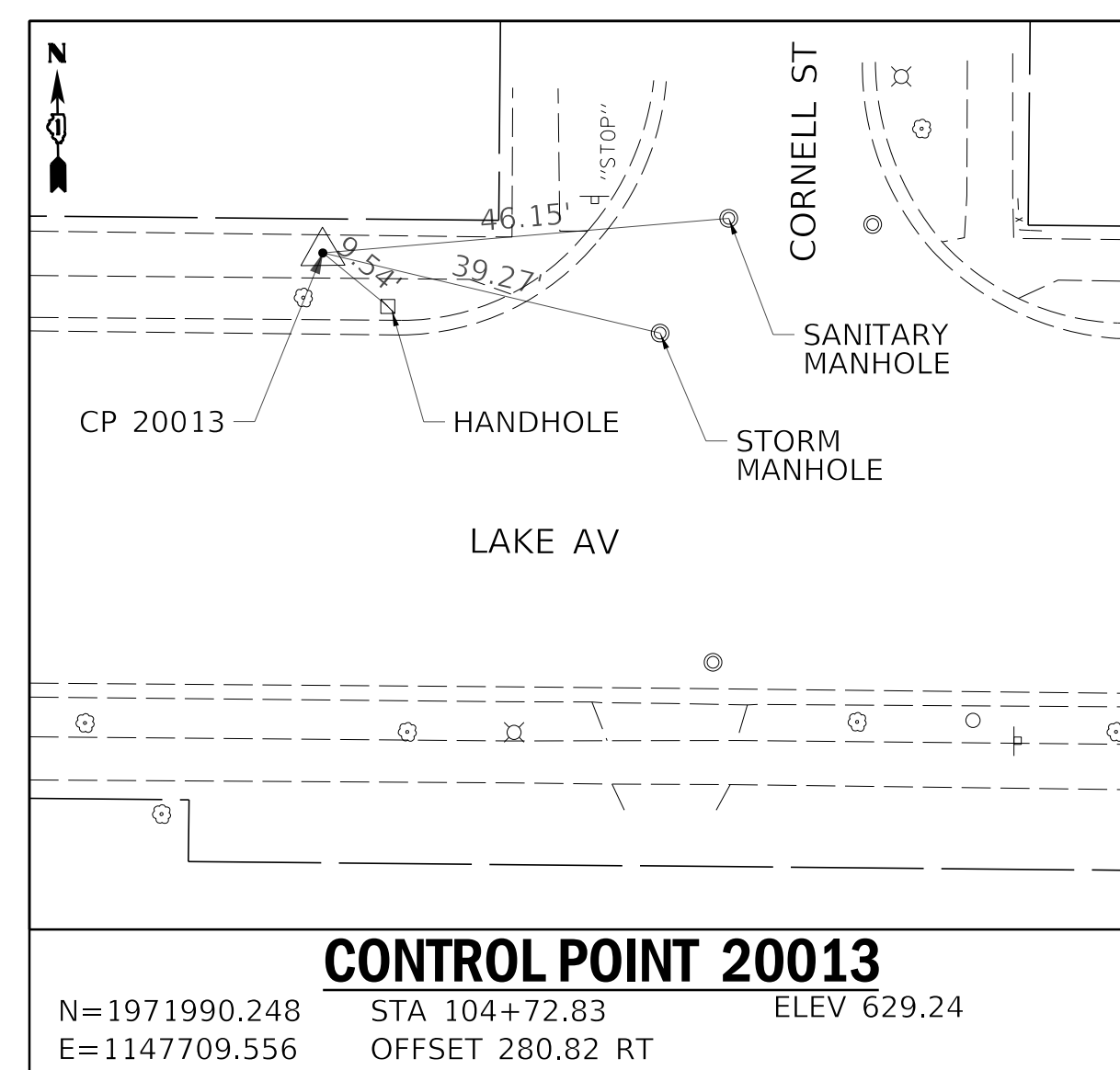
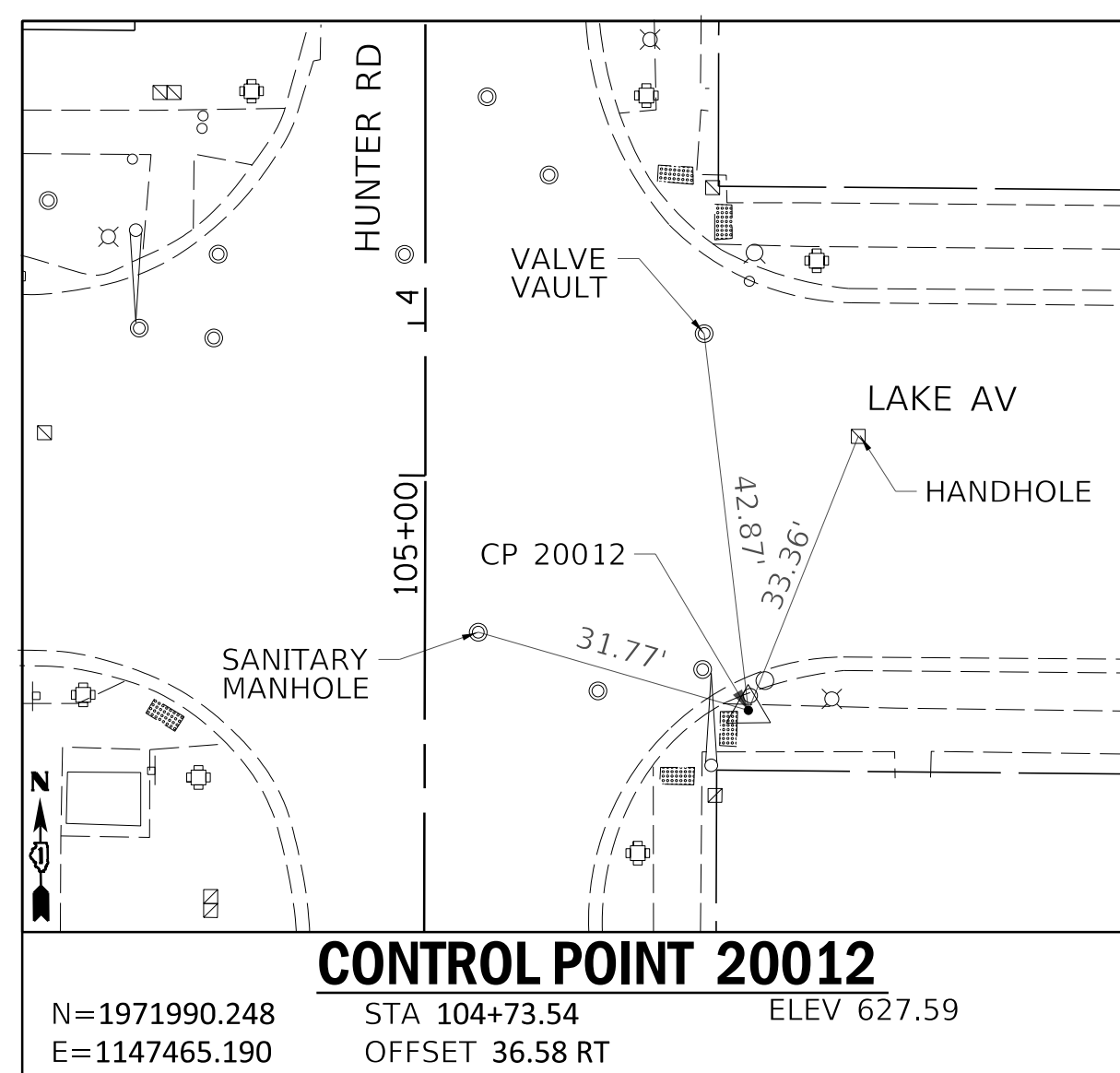
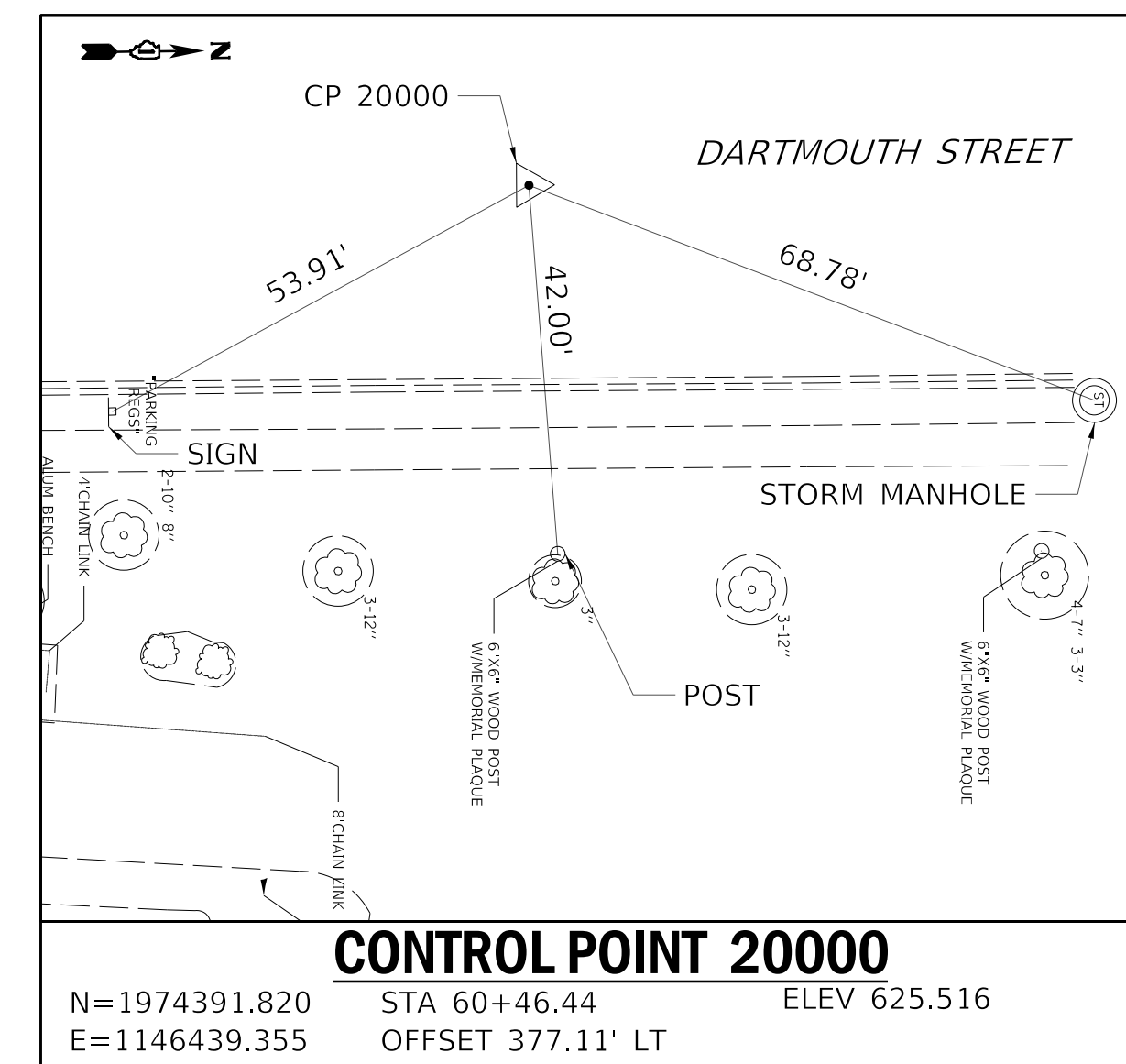
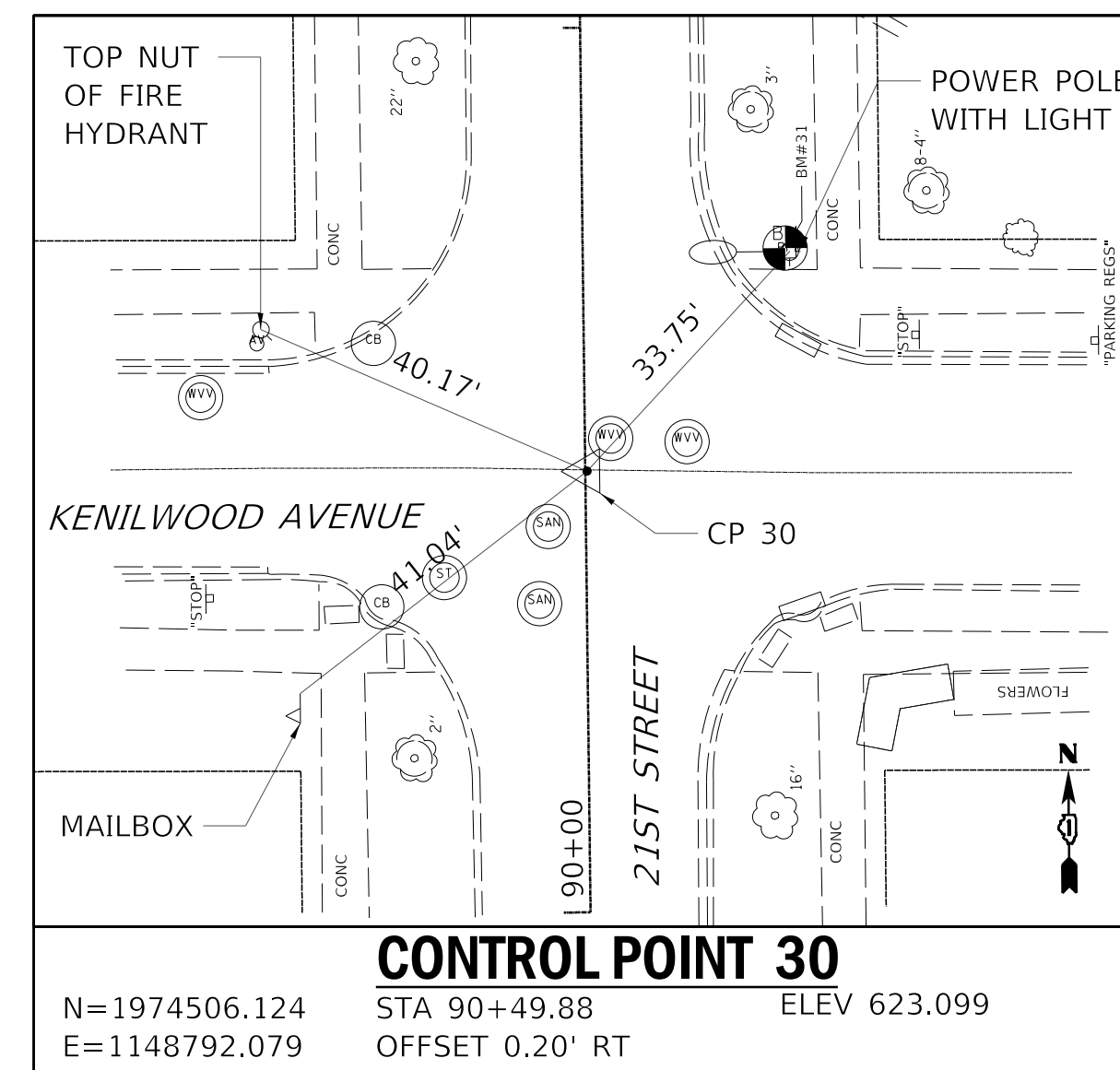
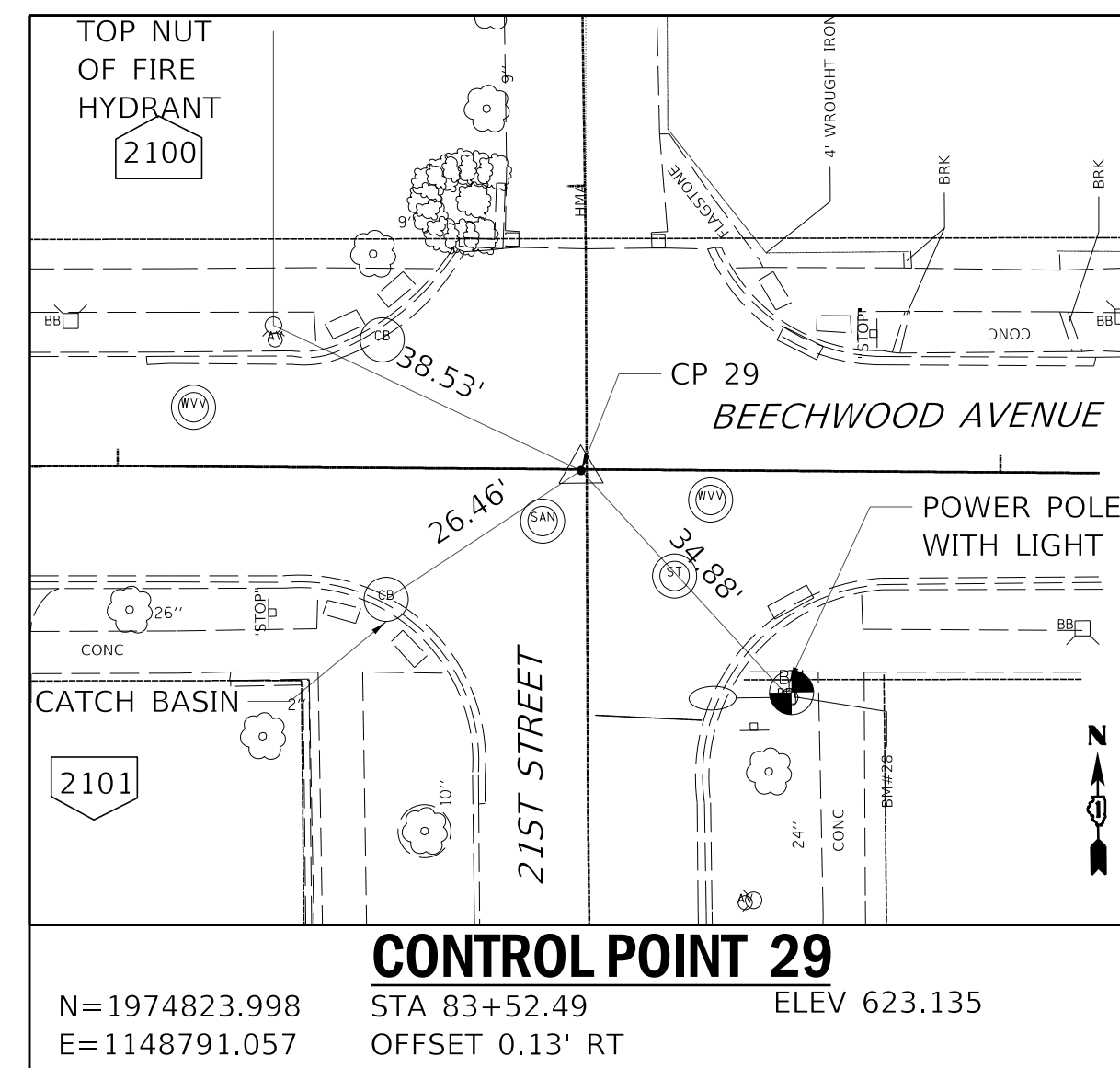
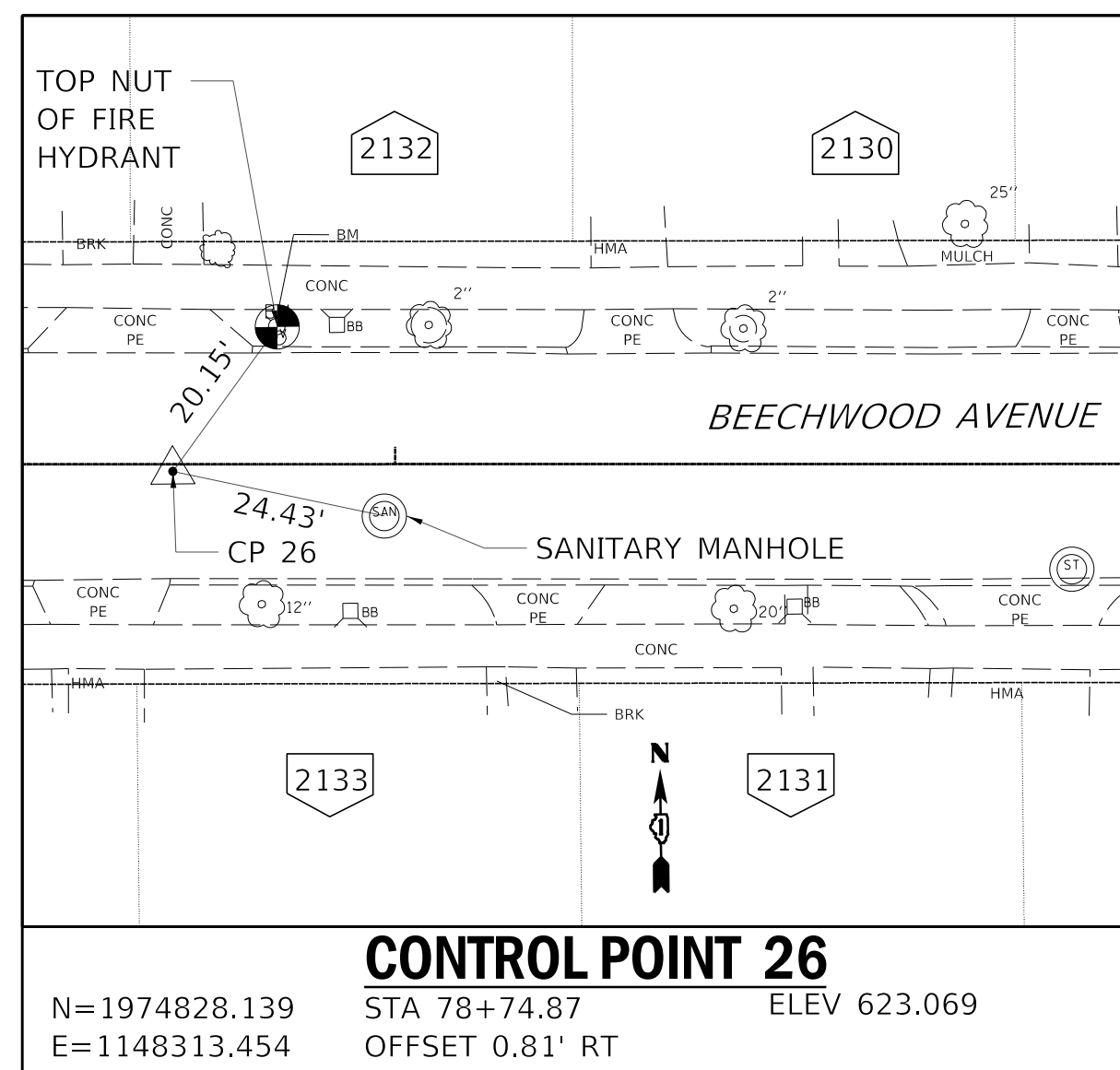
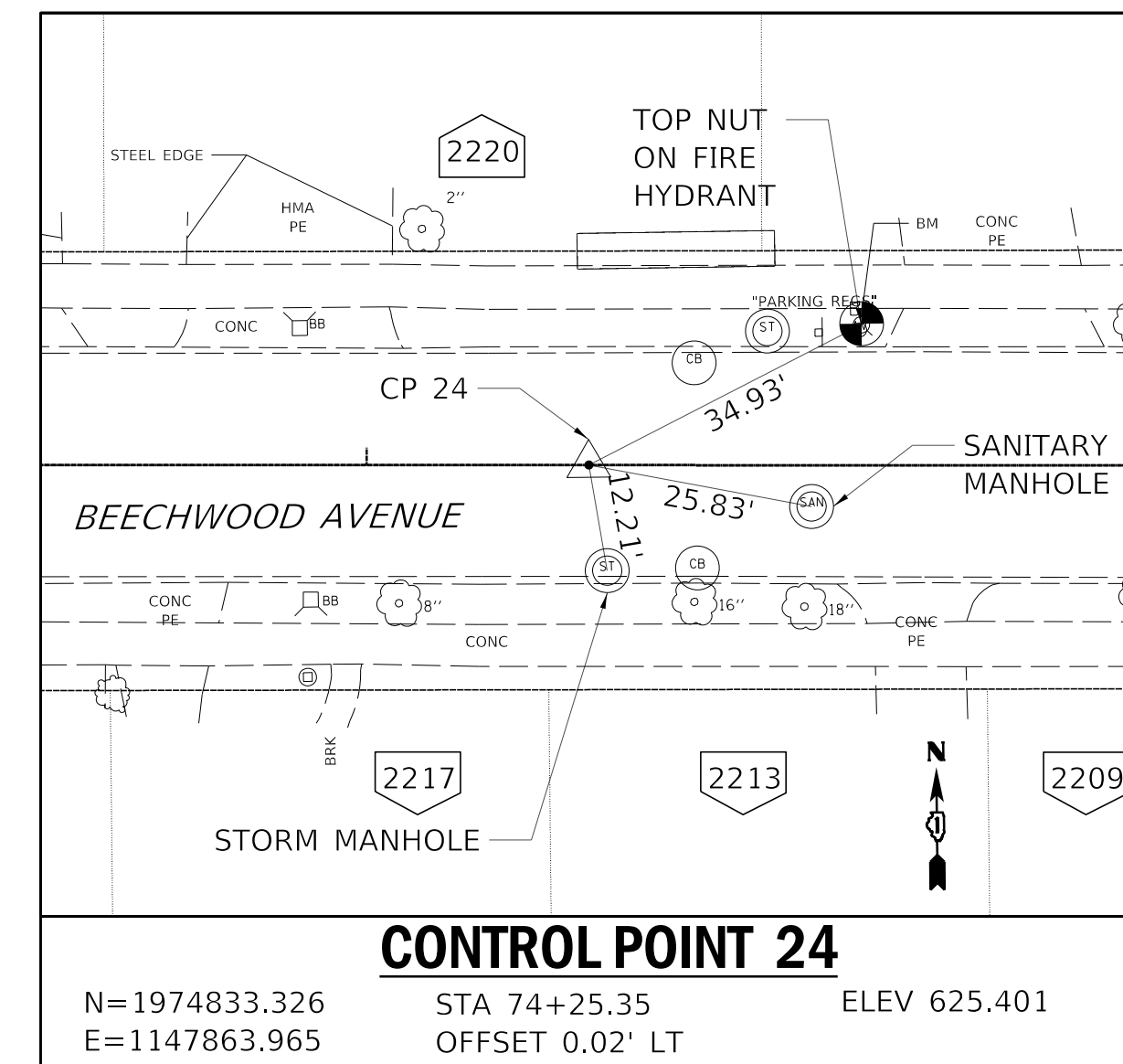
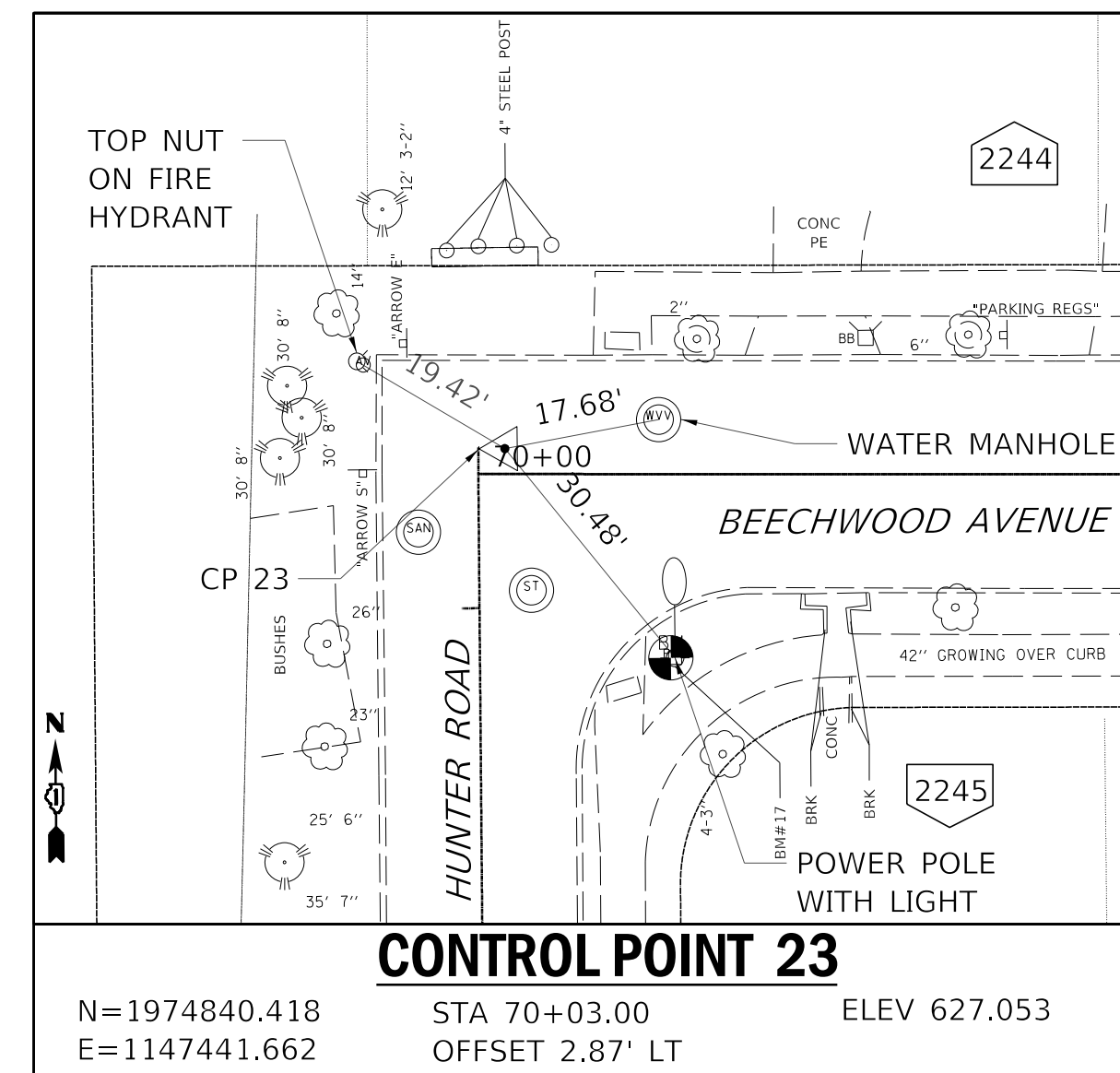
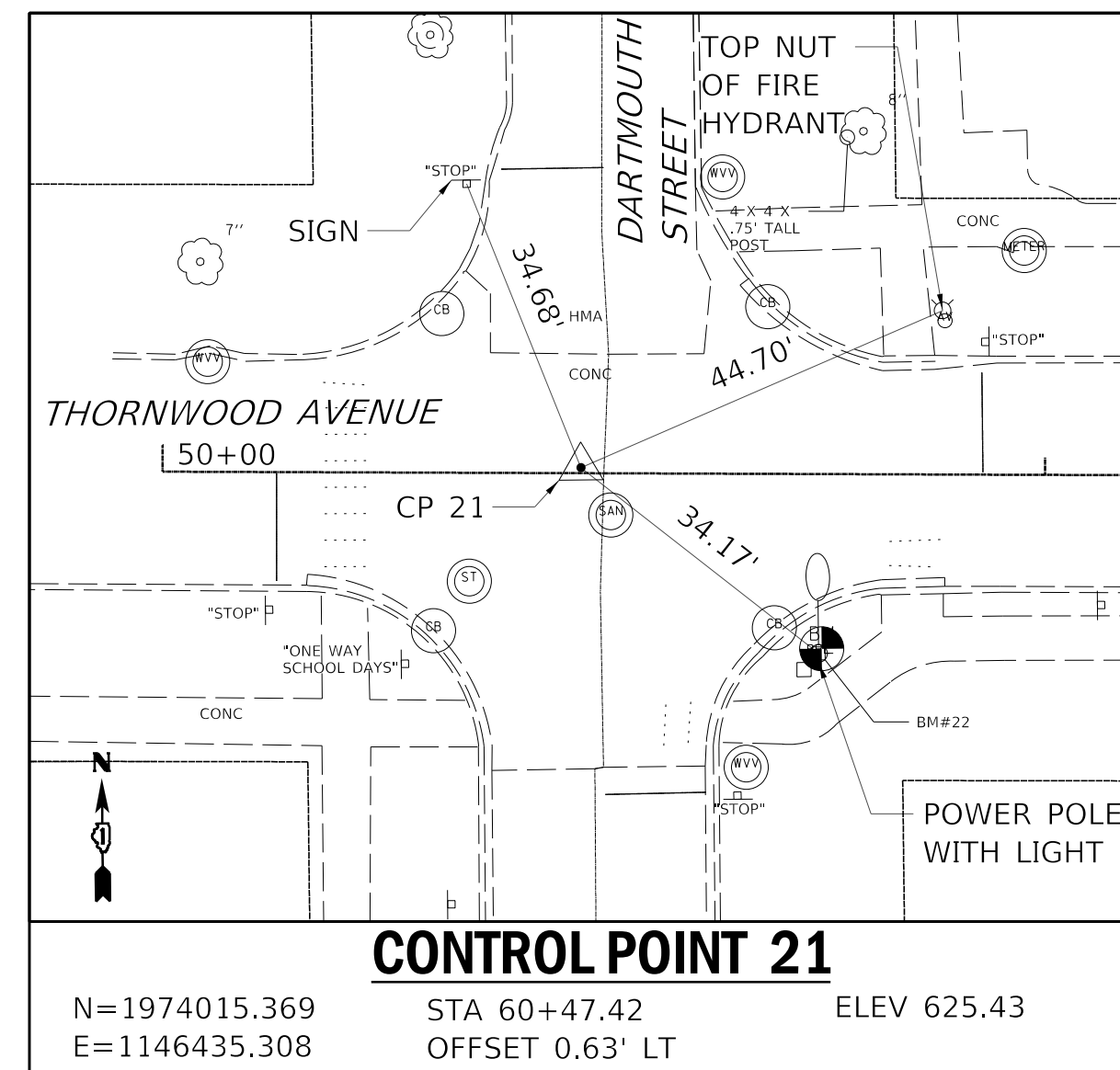
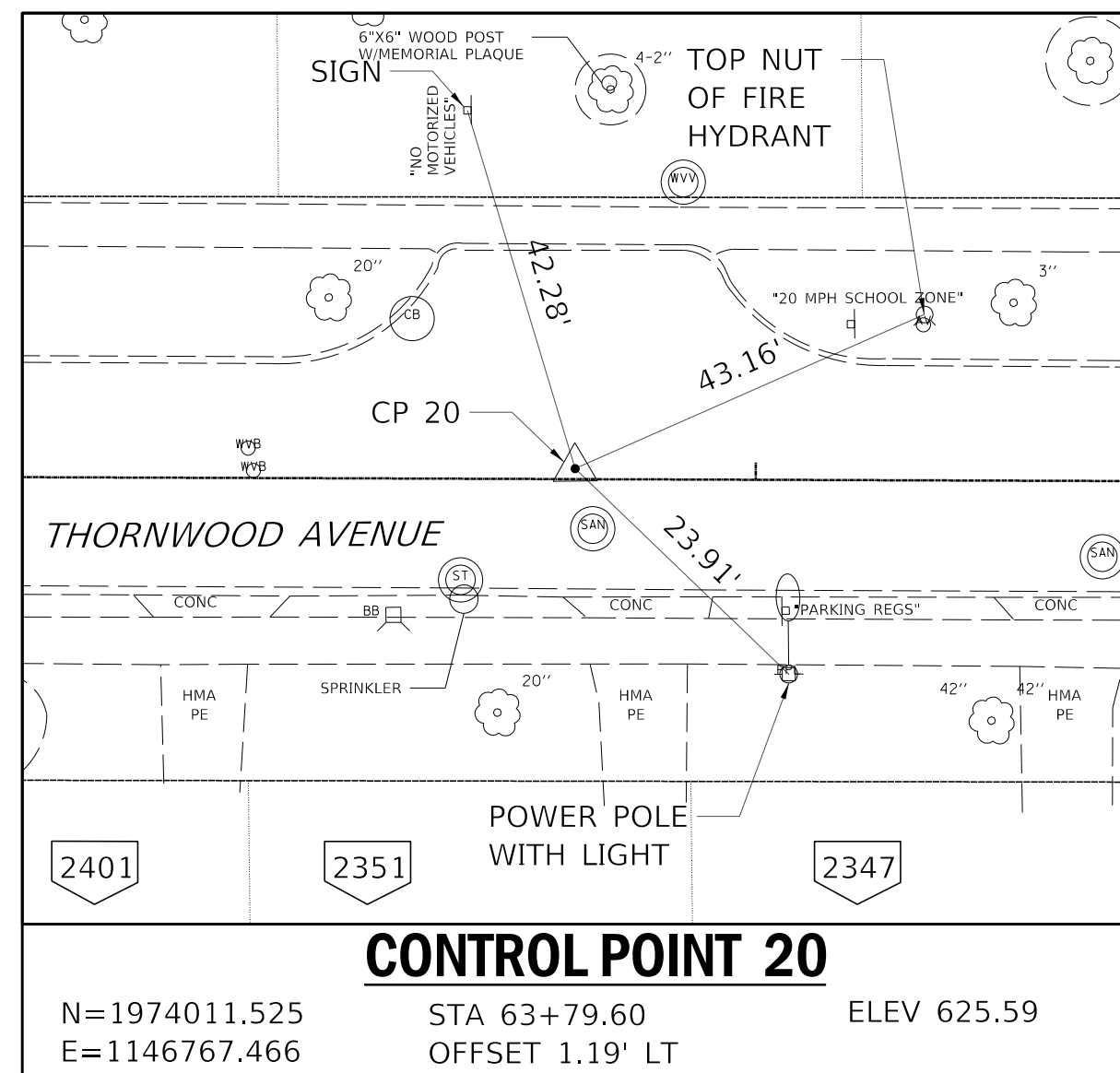
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TITLE: **WSNSP CONTRACT #3  
ALIGNMENTS, TIES AND BENCHMARKS**

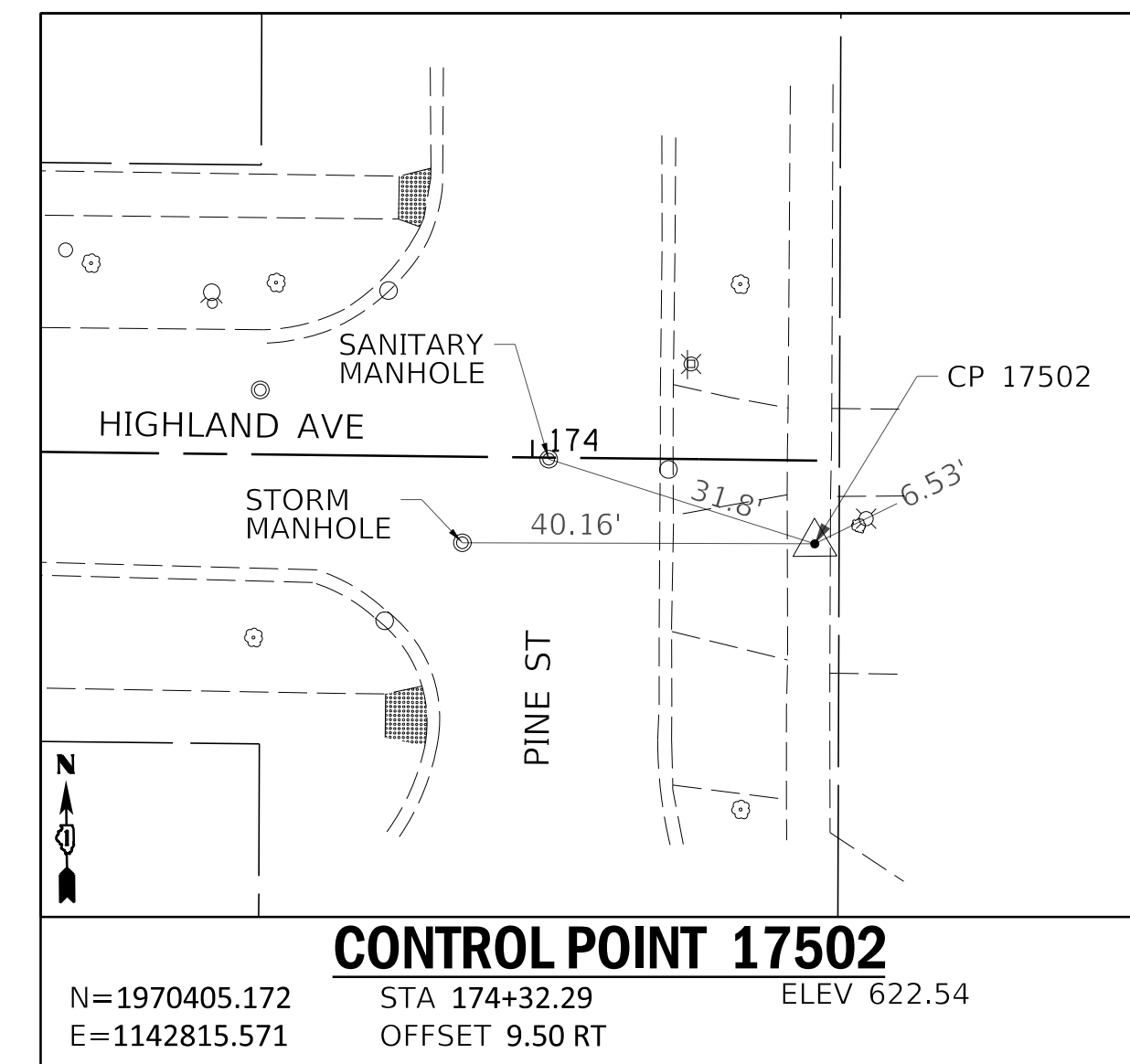
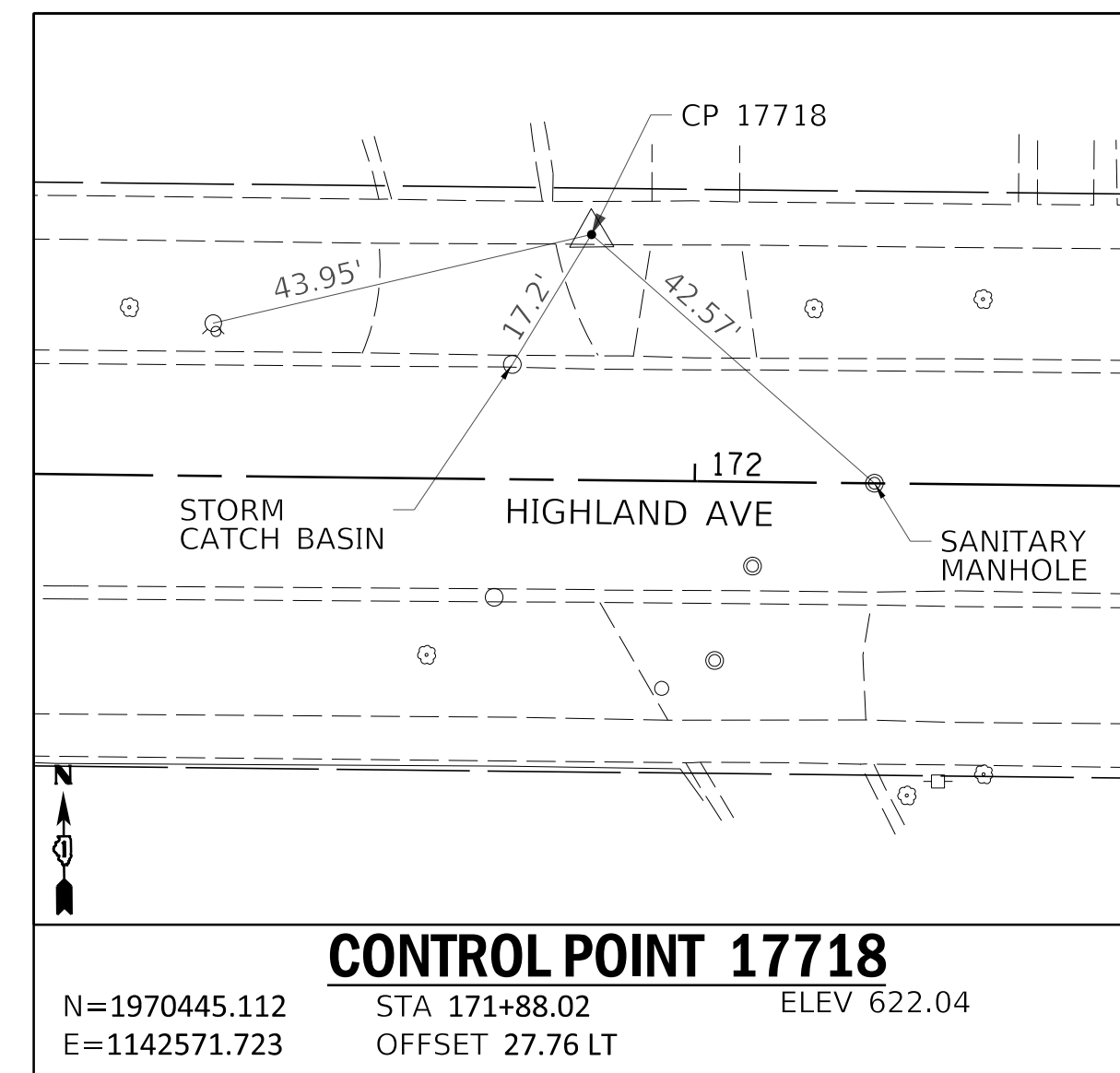
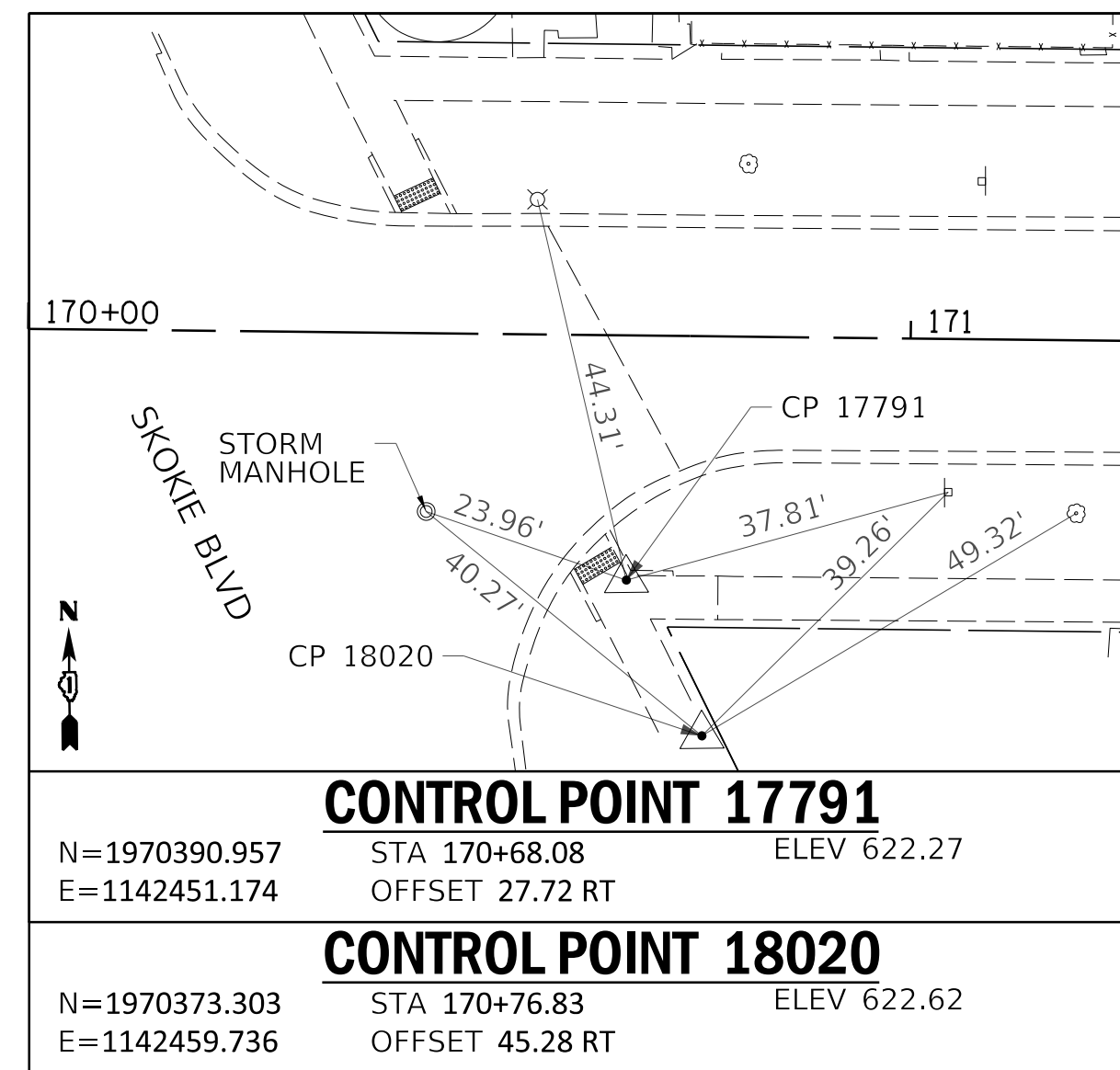
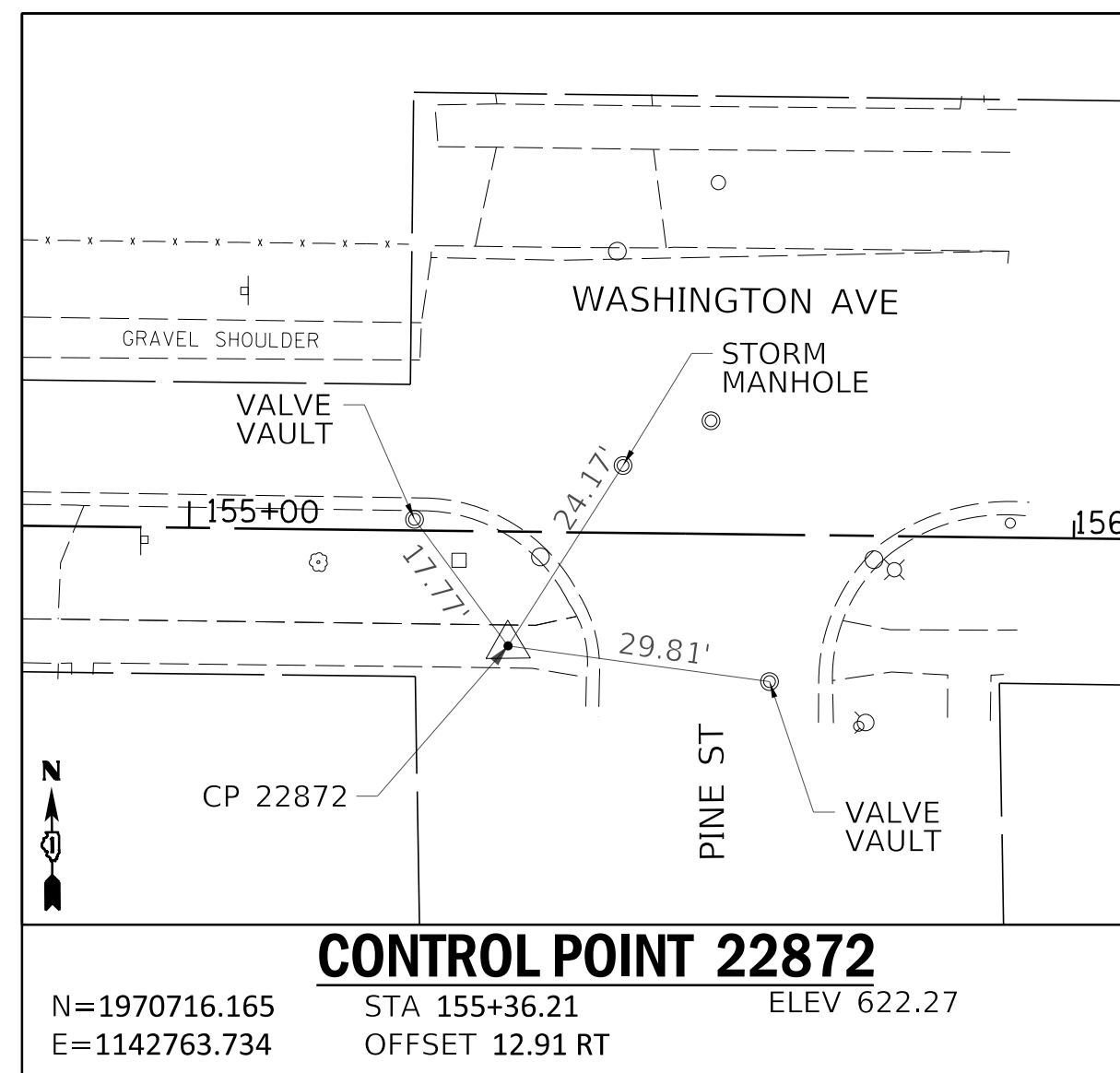
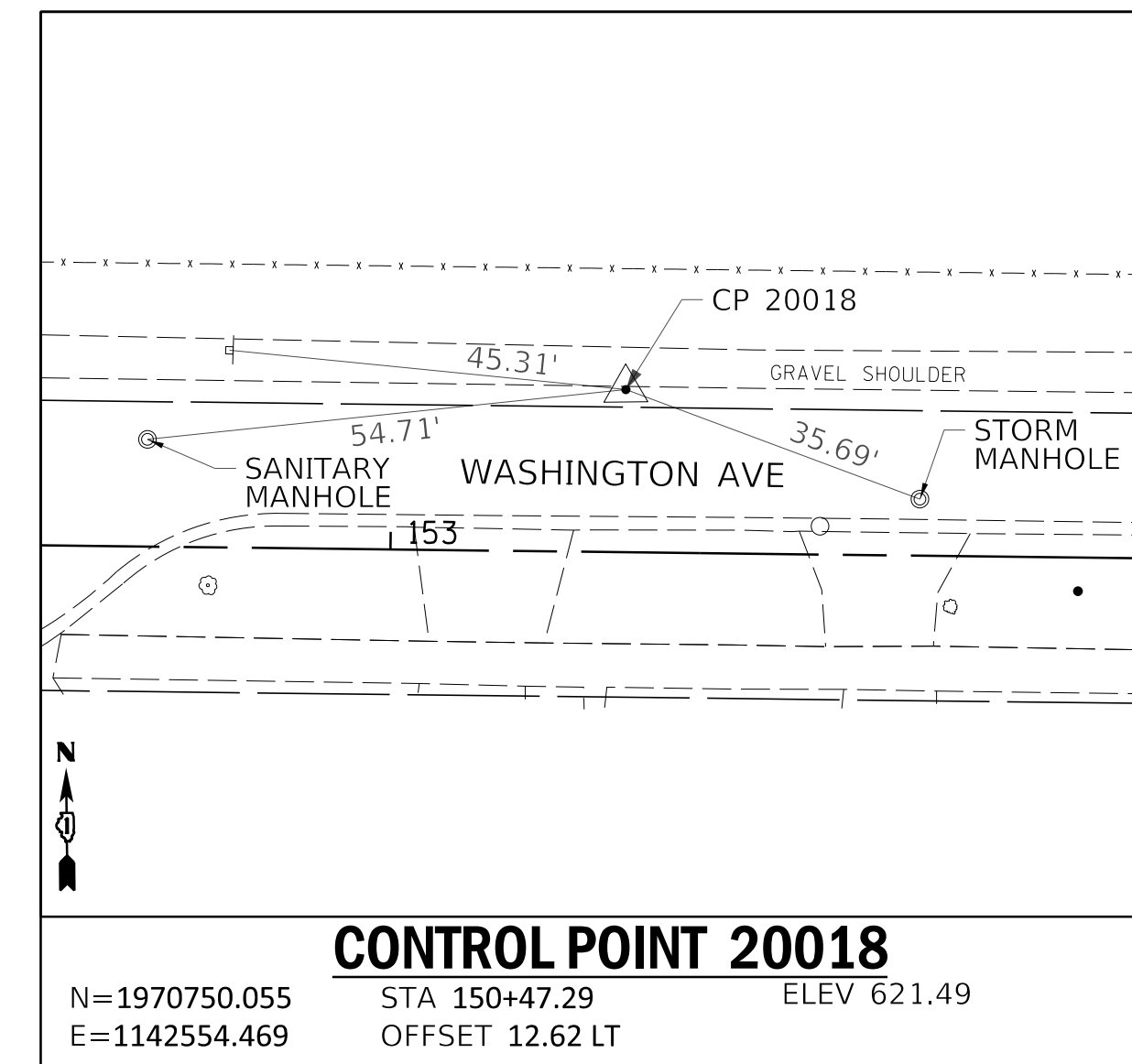
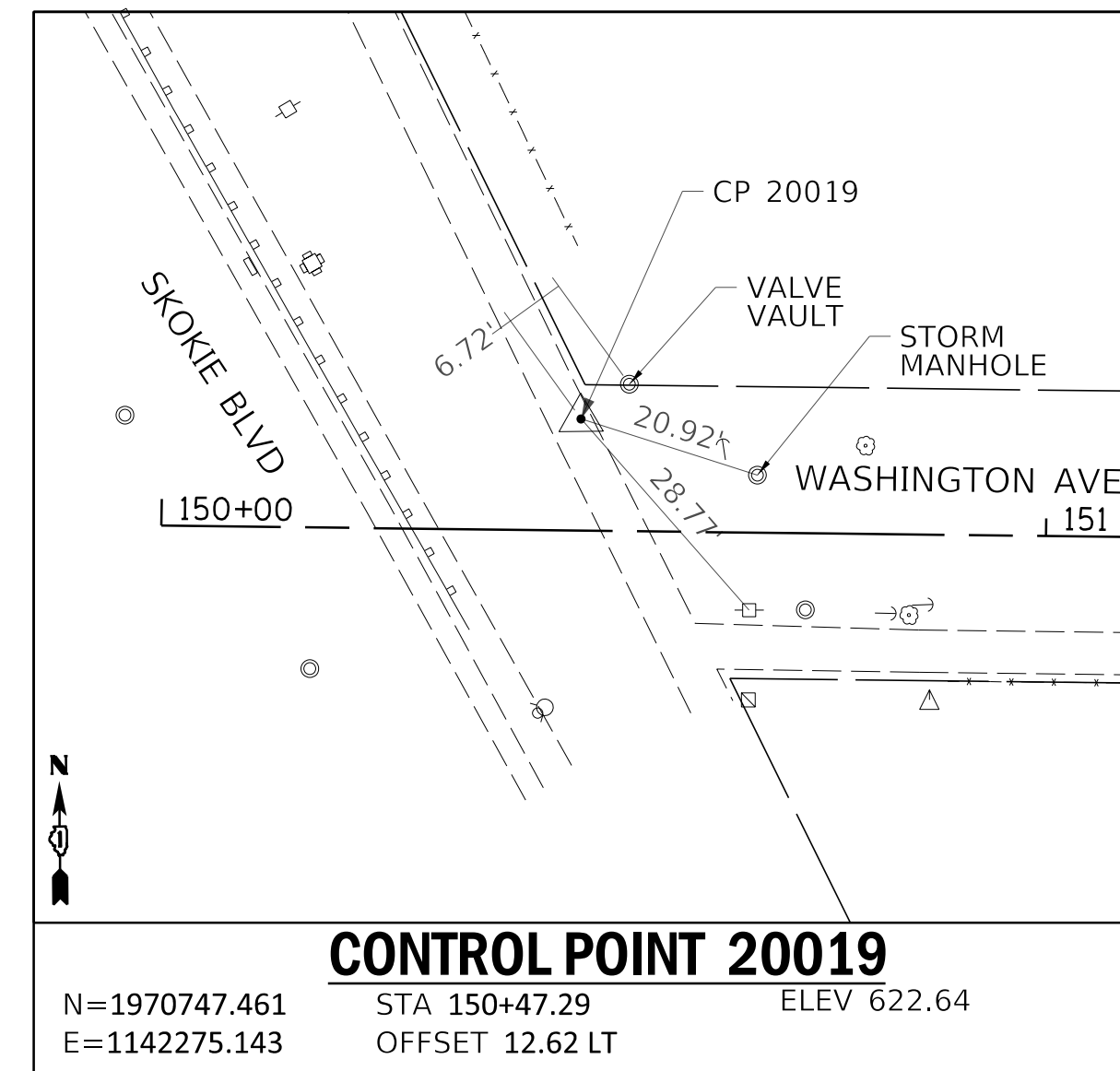
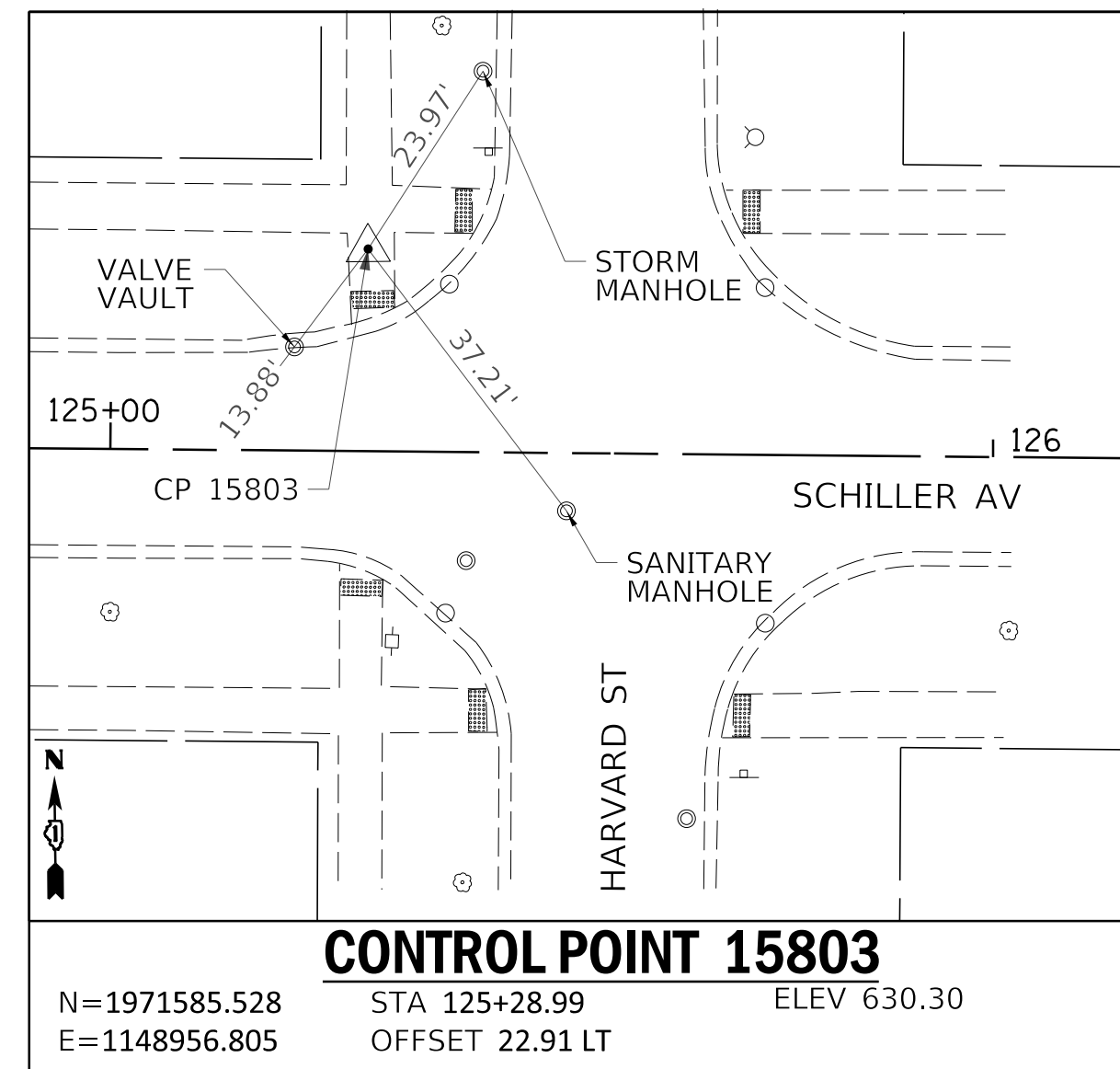
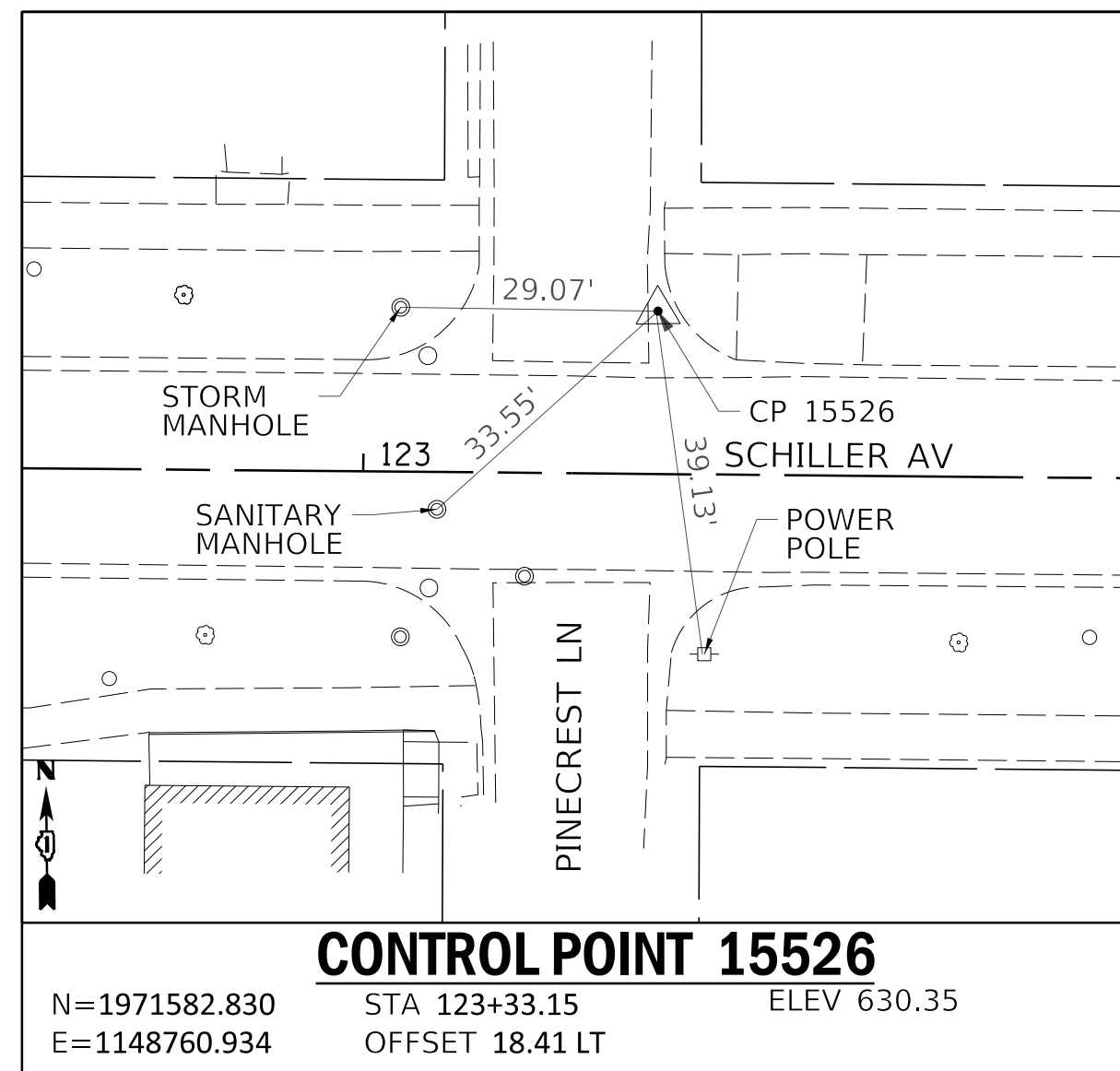
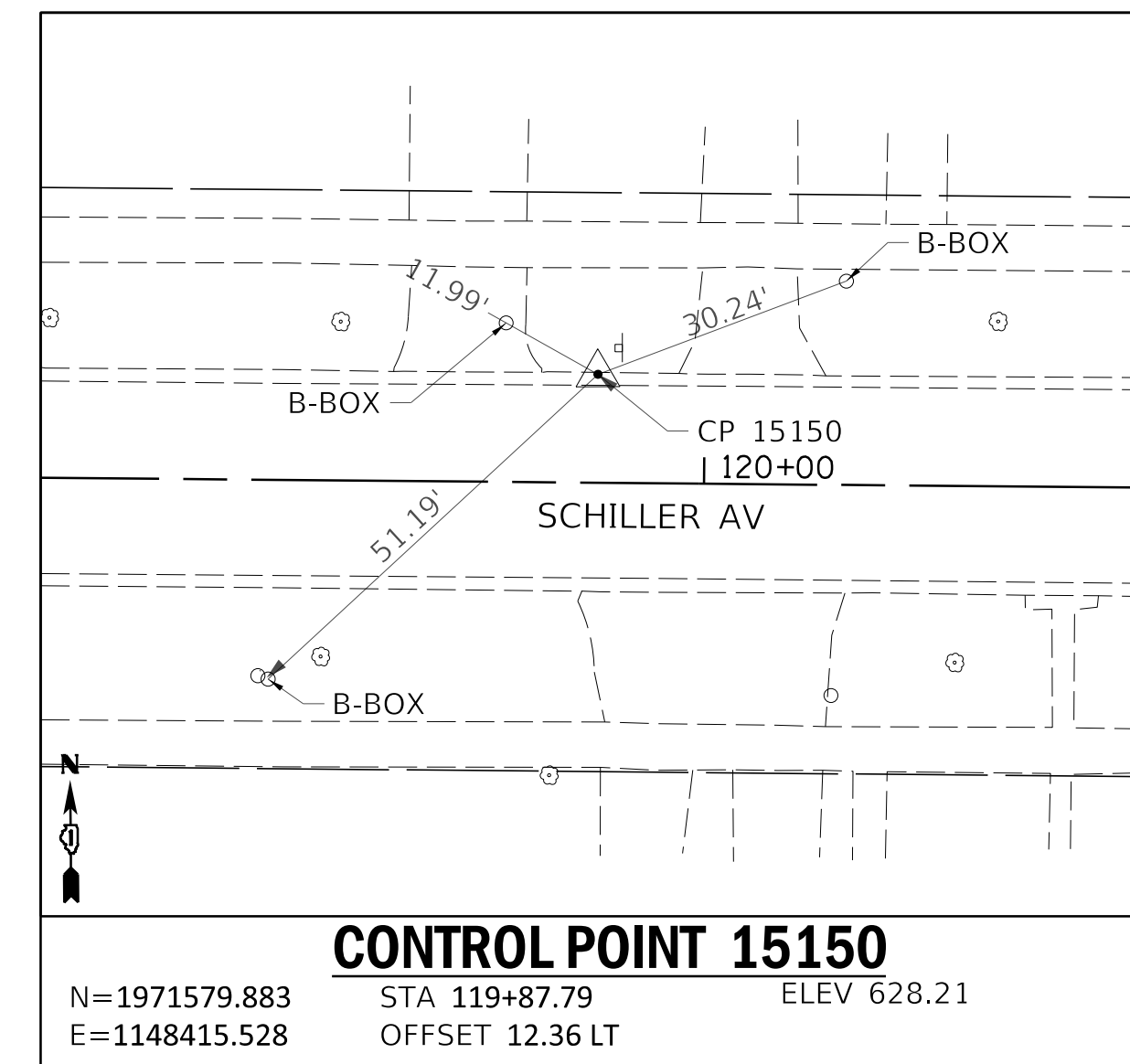
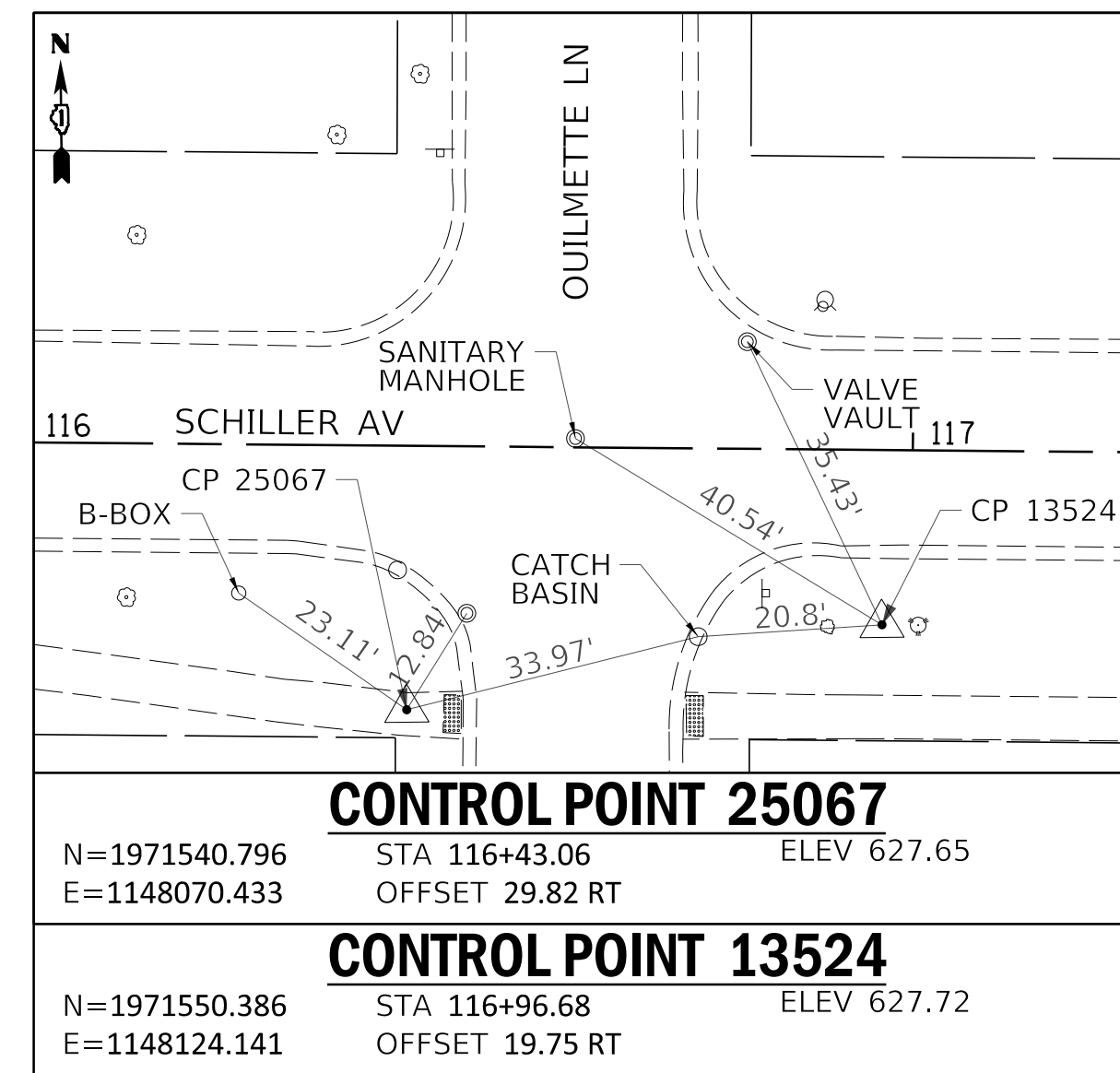
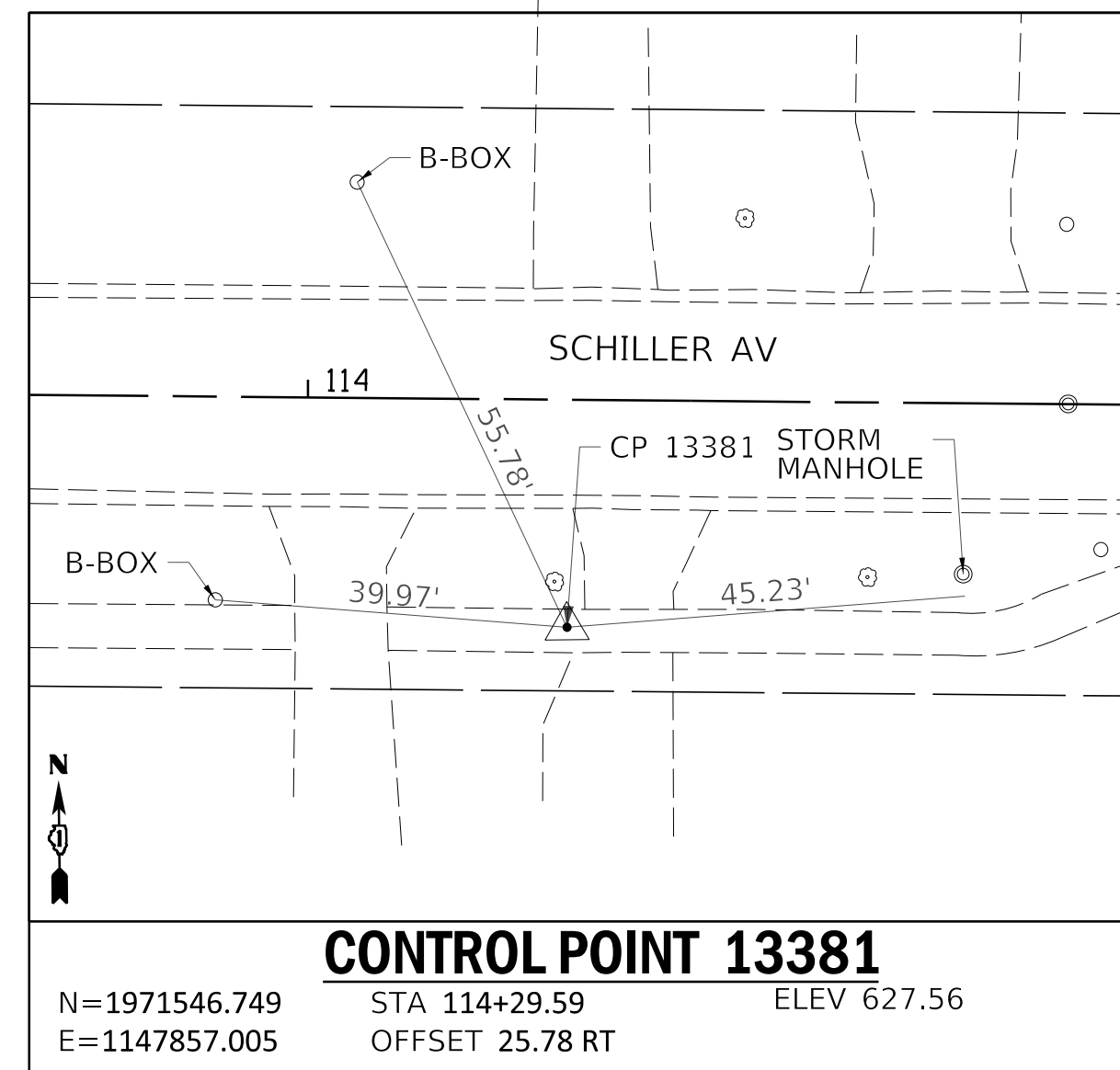
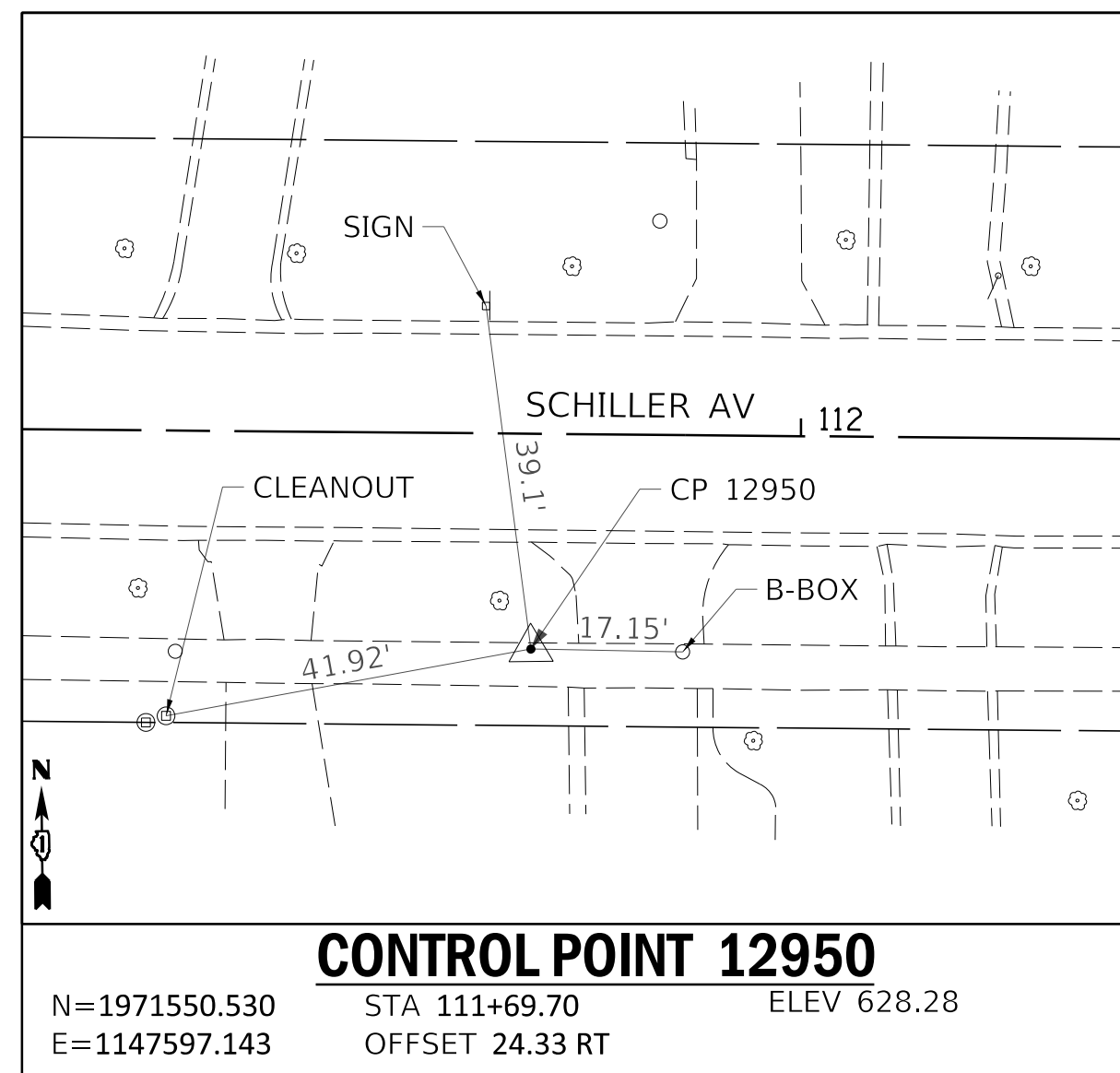
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 DATE: 10/8/2021  
 SHEET 25 OF 207  
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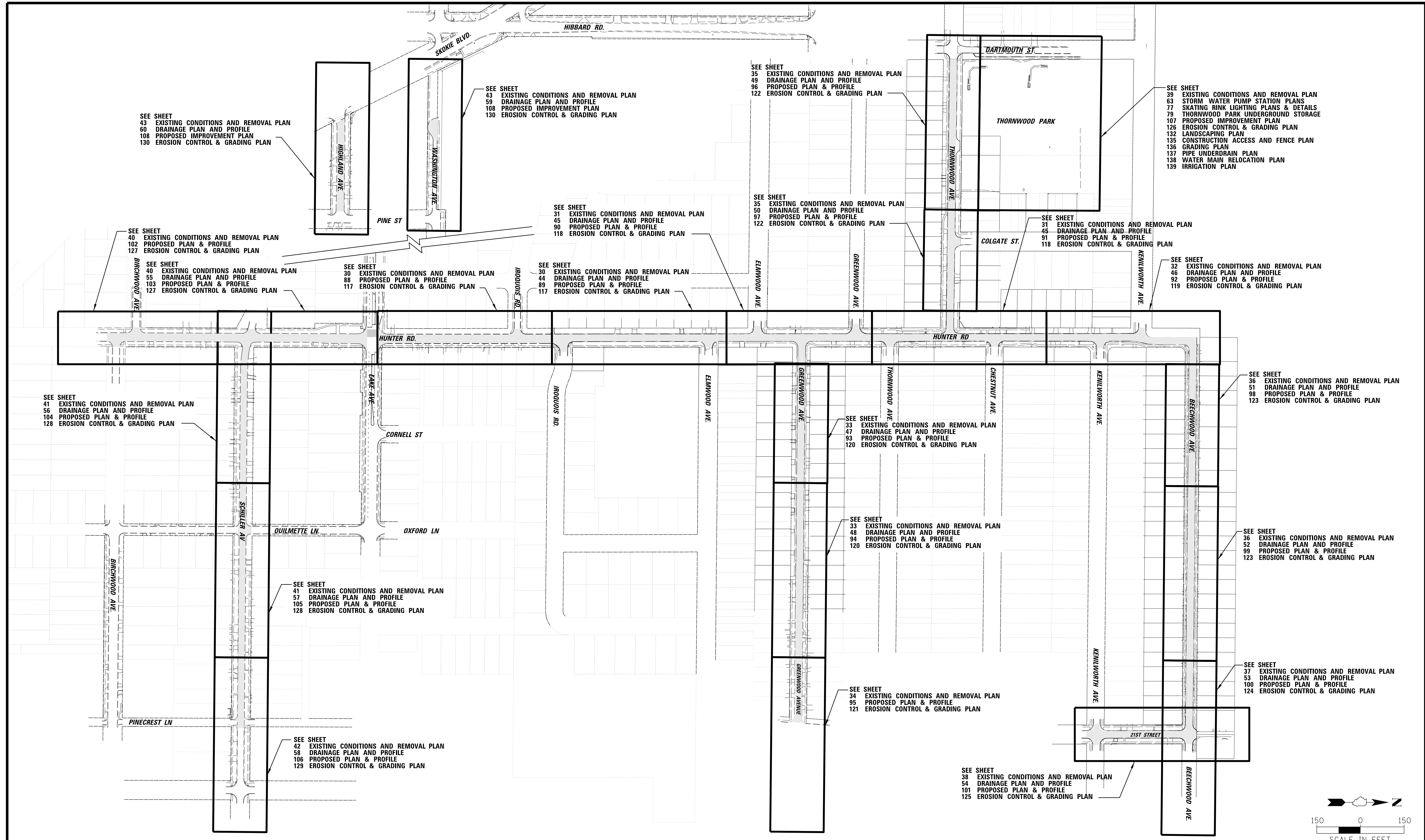
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SEE SHEET  
43 EXISTING CONDITIONS AND REMOVAL PLAN  
60 DRAINAGE PLAN AND PROFILE  
108 PROPOSED IMPROVEMENT PLAN  
130 EROSION CONTROL & GRADING PLAN

SEE SHEET  
43 EXISTING CONDITIONS AND REMOVAL PLAN  
59 DRAINAGE PLAN AND PROFILE  
108 PROPOSED IMPROVEMENT PLAN  
130 EROSION CONTROL & GRADING PLAN

SEE SHEET  
35 EXISTING CONDITIONS AND REMOVAL PLAN  
49 DRAINAGE PLAN AND PROFILE  
96 PROPOSED PLAN & PROFILE  
122 EROSION CONTROL & GRADING PLAN

SEE SHEET  
39 EXISTING CONDITIONS AND REMOVAL PLAN  
63 STORM WATER PUMP STATION PLANS  
77 SKATING RINK LIGHTING PLANS & DETAILS  
79 THORNWOOD PARK UNDERGROUND STORAGE  
107 PROPOSED IMPROVEMENT PLAN  
126 EROSION CONTROL & GRADING PLAN  
132 LANDSCAPING PLAN  
135 CONSTRUCTION ACCESS AND FENCE PLAN  
136 GRADING PLAN  
137 PIPE UNDERDRAIN PLAN  
138 WATER MAIN RELOCATION PLAN  
139 IRRIGATION PLAN

SEE SHEET  
40 EXISTING CONDITIONS AND REMOVAL PLAN  
102 PROPOSED PLAN & PROFILE  
127 EROSION CONTROL & GRADING PLAN

SEE SHEET  
31 EXISTING CONDITIONS AND REMOVAL PLAN  
45 DRAINAGE PLAN AND PROFILE  
90 PROPOSED PLAN & PROFILE  
118 EROSION CONTROL & GRADING PLAN

SEE SHEET  
35 EXISTING CONDITIONS AND REMOVAL PLAN  
50 DRAINAGE PLAN AND PROFILE  
97 PROPOSED PLAN & PROFILE  
122 EROSION CONTROL & GRADING PLAN

SEE SHEET  
31 EXISTING CONDITIONS AND REMOVAL PLAN  
45 DRAINAGE PLAN AND PROFILE  
91 PROPOSED PLAN & PROFILE  
118 EROSION CONTROL & GRADING PLAN

SEE SHEET  
40 EXISTING CONDITIONS AND REMOVAL PLAN  
55 DRAINAGE PLAN AND PROFILE  
103 PROPOSED PLAN & PROFILE  
127 EROSION CONTROL & GRADING PLAN

SEE SHEET  
30 EXISTING CONDITIONS AND REMOVAL PLAN  
88 PROPOSED PLAN & PROFILE  
117 EROSION CONTROL & GRADING PLAN

SEE SHEET  
30 EXISTING CONDITIONS AND REMOVAL PLAN  
44 DRAINAGE PLAN AND PROFILE  
89 PROPOSED PLAN & PROFILE  
117 EROSION CONTROL & GRADING PLAN

SEE SHEET  
32 EXISTING CONDITIONS AND REMOVAL PLAN  
46 DRAINAGE PLAN AND PROFILE  
92 PROPOSED PLAN & PROFILE  
119 EROSION CONTROL & GRADING PLAN

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41 EXISTING CONDITIONS AND REMOVAL PLAN  
56 DRAINAGE PLAN AND PROFILE  
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128 EROSION CONTROL & GRADING PLAN

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128 EROSION CONTROL & GRADING PLAN

SEE SHEET  
33 EXISTING CONDITIONS AND REMOVAL PLAN  
47 DRAINAGE PLAN AND PROFILE  
93 PROPOSED PLAN & PROFILE  
120 EROSION CONTROL & GRADING PLAN

SEE SHEET  
36 EXISTING CONDITIONS AND REMOVAL PLAN  
51 DRAINAGE PLAN AND PROFILE  
98 PROPOSED PLAN & PROFILE  
123 EROSION CONTROL & GRADING PLAN

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94 PROPOSED PLAN & PROFILE  
120 EROSION CONTROL & GRADING PLAN

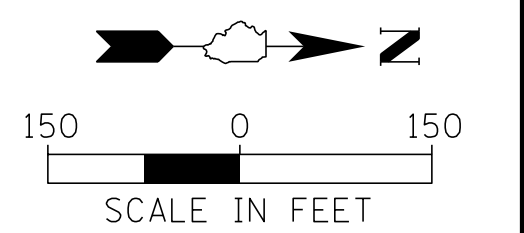
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123 EROSION CONTROL & GRADING PLAN

SEE SHEET  
34 EXISTING CONDITIONS AND REMOVAL PLAN  
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121 EROSION CONTROL & GRADING PLAN

SEE SHEET  
37 EXISTING CONDITIONS AND REMOVAL PLAN  
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124 EROSION CONTROL & GRADING PLAN

SEE SHEET  
42 EXISTING CONDITIONS AND REMOVAL PLAN  
58 DRAINAGE PLAN AND PROFILE  
106 PROPOSED PLAN & PROFILE  
129 EROSION CONTROL & GRADING PLAN

SEE SHEET  
38 EXISTING CONDITIONS AND REMOVAL PLAN  
54 DRAINAGE PLAN AND PROFILE  
101 PROPOSED PLAN & PROFILE  
125 EROSION CONTROL & GRADING PLAN



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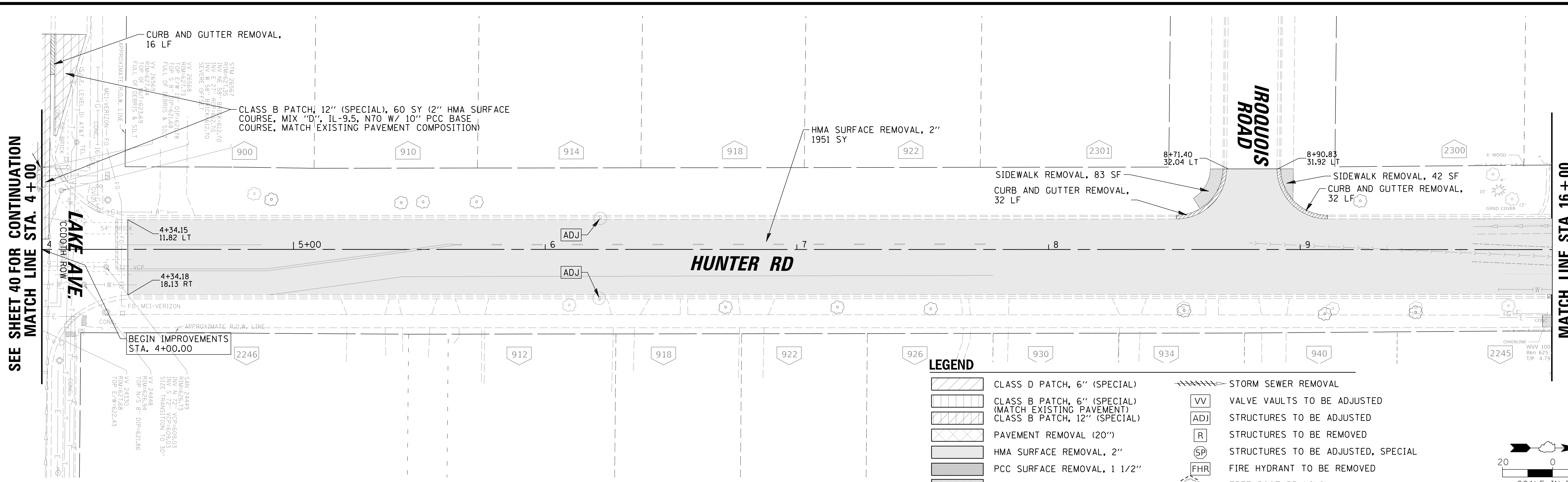
**BAXTER & WOODMAN**  
Consulting Engineers

CLIENT:  **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	CHKD.	MODEL:
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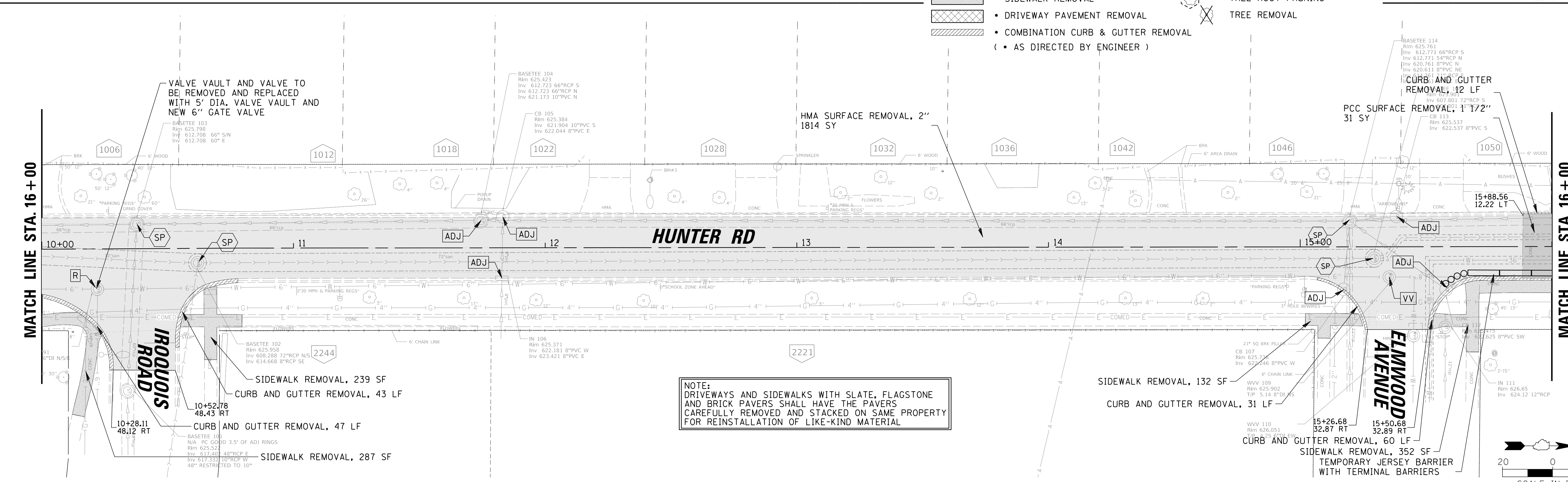
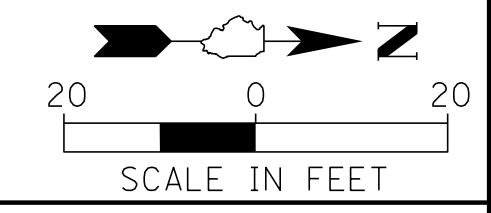
TITLE: **WSNSP CONTRACT #3  
PLAN SHEET KEY MAP**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 29 OF 207  
DRAWING NO. **29**

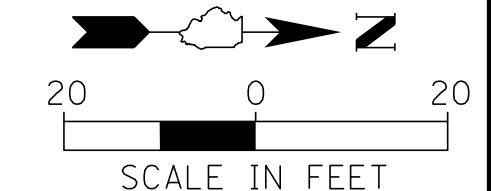


**LEGEND**

- CLASS D PATCH, 6" (SPECIAL)
- CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
- CLASS B PATCH, 12" (SPECIAL)
- PAVEMENT REMOVAL (20")
- HMA SURFACE REMOVAL, 2"
- PCC SURFACE REMOVAL, 1 1/2"
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- COMBINATION CURB & GUTTER REMOVAL ( • AS DIRECTED BY ENGINEER )
- STORM SEWER REMOVAL
- VALVE VAULTS TO BE ADJUSTED
- STRUCTURES TO BE ADJUSTED
- STRUCTURES TO BE REMOVED
- STRUCTURES TO BE ADJUSTED, SPECIAL
- FIRE HYDRANT TO BE REMOVED
- TREE ROOT PRUNING
- TREE REMOVAL



**NOTE:**  
DRIVEWAYS AND SIDEWALKS WITH SLATE, FLAGSTONE AND BRICK PAVERS SHALL HAVE THE PAVERS CAREFULLY REMOVED AND STACKED ON SAME PROPERTY FOR REINSTALLATION OF LIKE-KIND MATERIAL



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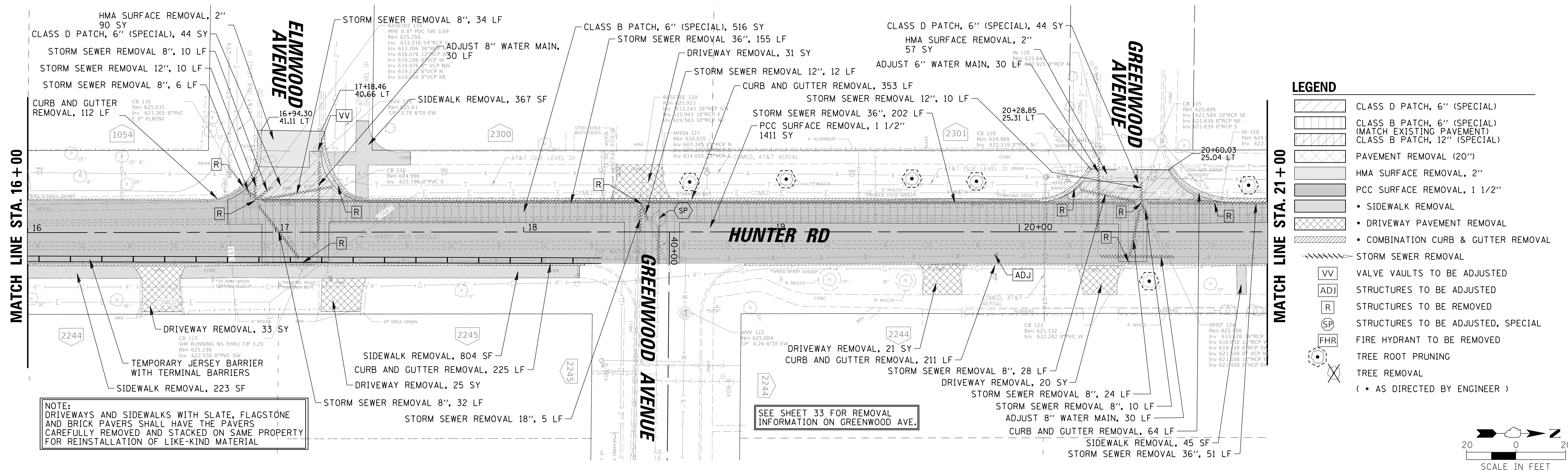


CLIENT: **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
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FILE NAME	N:\wilmette\180245.00004\Civil\REM.C3_180245_01.sht			

TITLE: **WSNSP CONTRACT #3  
HUNTER ROAD  
EX CONDITIONS & REMOVAL PLAN**

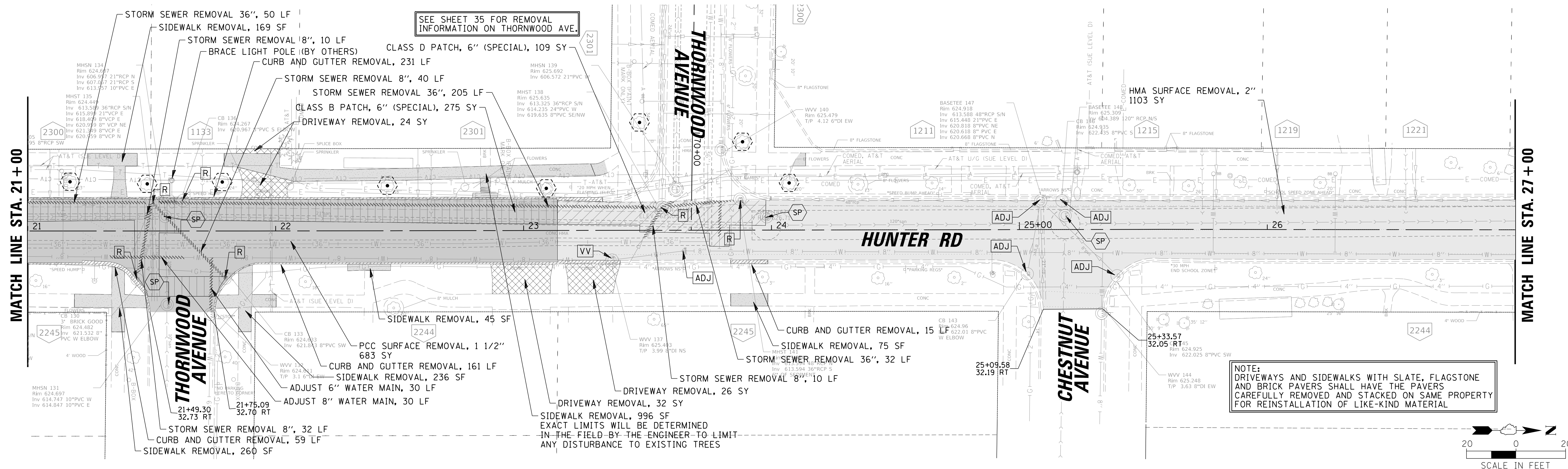
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DATE: 10/8/2021  
SHEET 30 OF 207  
DRAWING NO. **30**



**NOTE:**  
DRIVEWAYS AND SIDEWALKS WITH SLATE, FLAGSTONE AND BRICK PAVERS SHALL HAVE THE PAVERS CAREFULLY REMOVED AND STACKED ON SAME PROPERTY FOR REINSTALLATION OF LIKE-KIND MATERIAL

SEE SHEET 33 FOR REMOVAL INFORMATION ON GREENWOOD AVE.

**NOTE:**  
DRIVEWAYS AND SIDEWALKS WITH SLATE, FLAGSTONE AND BRICK PAVERS SHALL HAVE THE PAVERS CAREFULLY REMOVED AND STACKED ON SAME PROPERTY FOR REINSTALLATION OF LIKE-KIND MATERIAL



SEE SHEET 35 FOR REMOVAL INFORMATION ON THORNWOOD AVE.

**NOTE:**  
DRIVEWAYS AND SIDEWALKS WITH SLATE, FLAGSTONE AND BRICK PAVERS SHALL HAVE THE PAVERS CAREFULLY REMOVED AND STACKED ON SAME PROPERTY FOR REINSTALLATION OF LIKE-KIND MATERIAL

EXACT LIMITS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER TO LIMIT ANY DISTURBANCE TO EXISTING TREES

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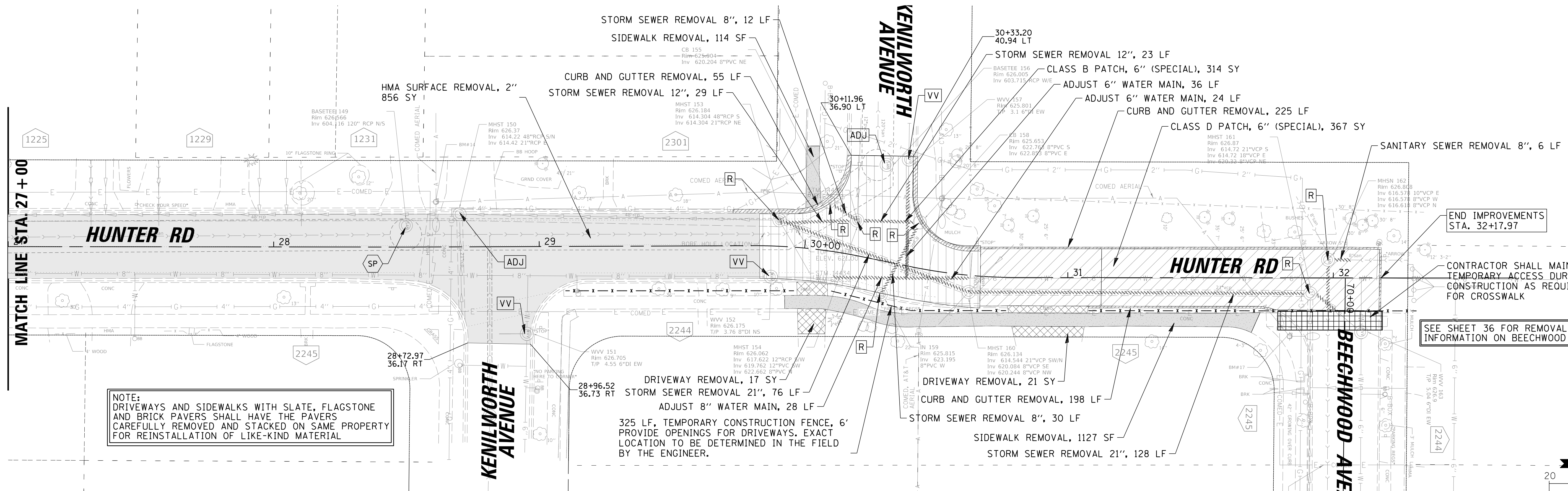
**BAXTER & WOODMAN**  
Consulting Engineers

CLIENT:  **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	NO.	DATE	REVISION
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TITLE: **WSNSP CONTRACT #3  
HUNTER ROAD  
EX CONDITIONS & REMOVAL PLAN**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 31 OF 207  
DRAWING NO. **31**

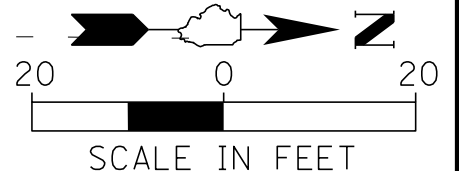


NOTE:  
 DRIVEWAYS AND SIDEWALKS WITH SLATE, FLAGSTONE AND BRICK PAVERS SHALL HAVE THE PAVERS CAREFULLY REMOVED AND STACKED ON SAME PROPERTY FOR REINSTALLATION OF LIKE-KIND MATERIAL

END IMPROVEMENTS  
 STA. 32+17.97

CONTRACTOR SHALL MAINTAIN TEMPORARY ACCESS DURING CONSTRUCTION AS REQUIRED FOR CROSSWALK

SEE SHEET 36 FOR REMOVAL INFORMATION ON BEECHWOOD AVE.



**LEGEND**

- CLASS D PATCH, 6" (SPECIAL)
- CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
- CLASS B PATCH, 12" (SPECIAL)
- PAVEMENT REMOVAL (20")
- HMA SURFACE REMOVAL, 2"
- PCC SURFACE REMOVAL, 1 1/2"
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- COMBINATION CURB & GUTTER REMOVAL (AS DIRECTED BY ENGINEER)
- STORM SEWER REMOVAL
- VALVE VAULTS TO BE ADJUSTED
- STRUCTURES TO BE ADJUSTED
- STRUCTURES TO BE REMOVED
- STRUCTURES TO BE ADJUSTED, SPECIAL
- FIRE HYDRANT TO BE REMOVED
- TREE ROOT PRUNING
- TREE REMOVAL

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 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

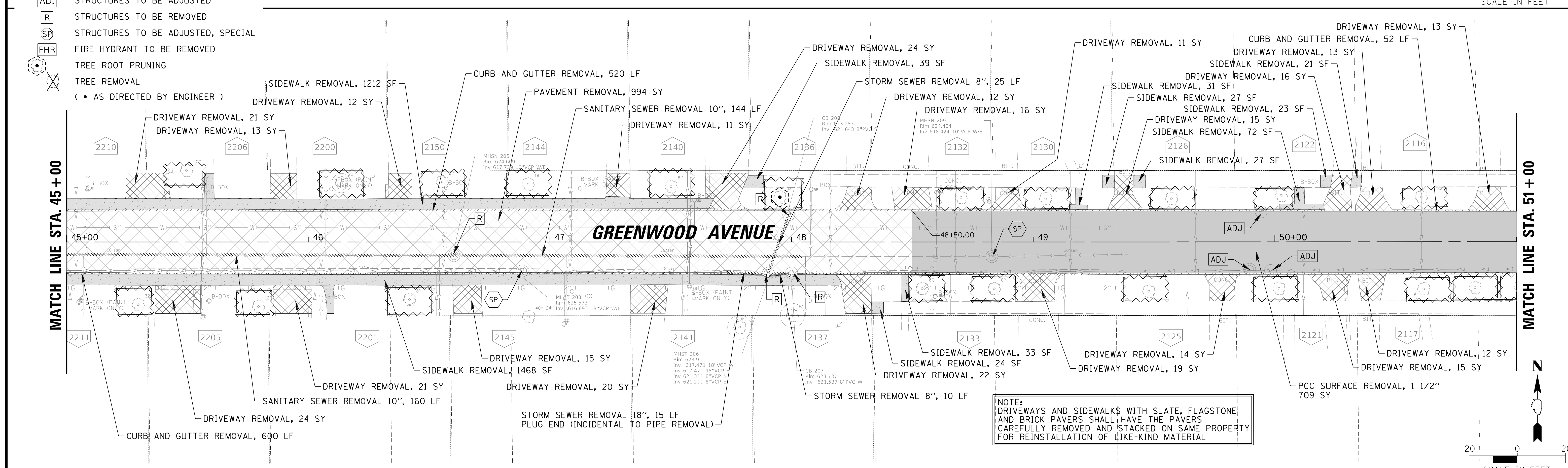
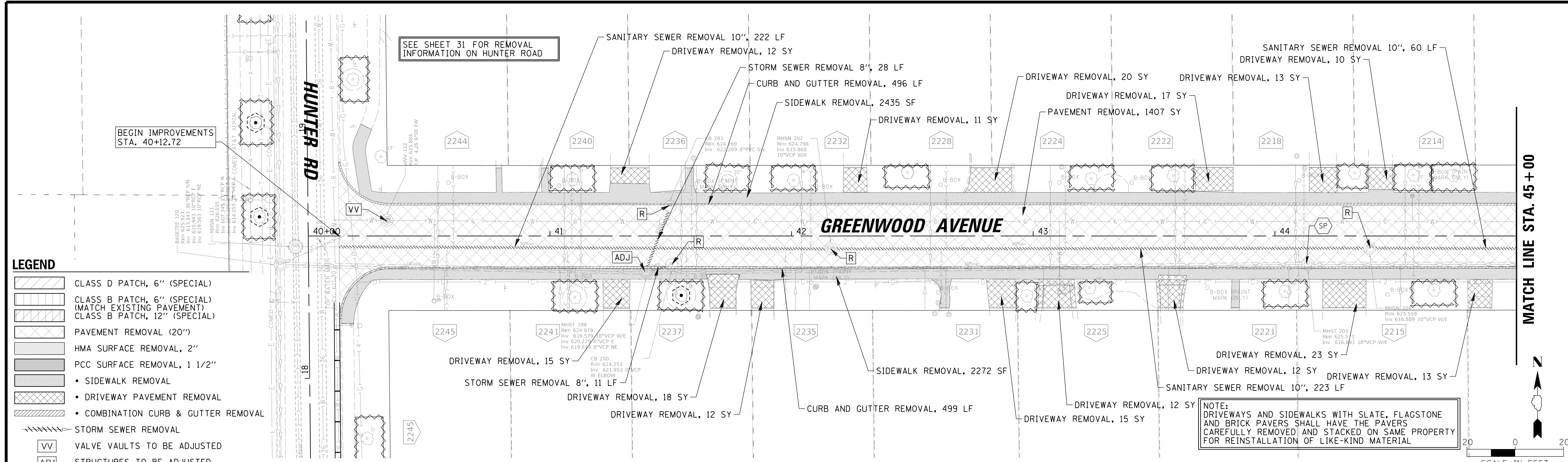
CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\REM.C3.180245_03.sht		

TITLE: **WSNSP CONTRACT #3  
 HUNTER ROAD  
 EX CONDITIONS & REMOVAL PLAN**

PROJ. NO.	180245.0004
DATE:	10/8/2021
SHEET	32 OF 207
DRAWING NO.	<b>32</b>





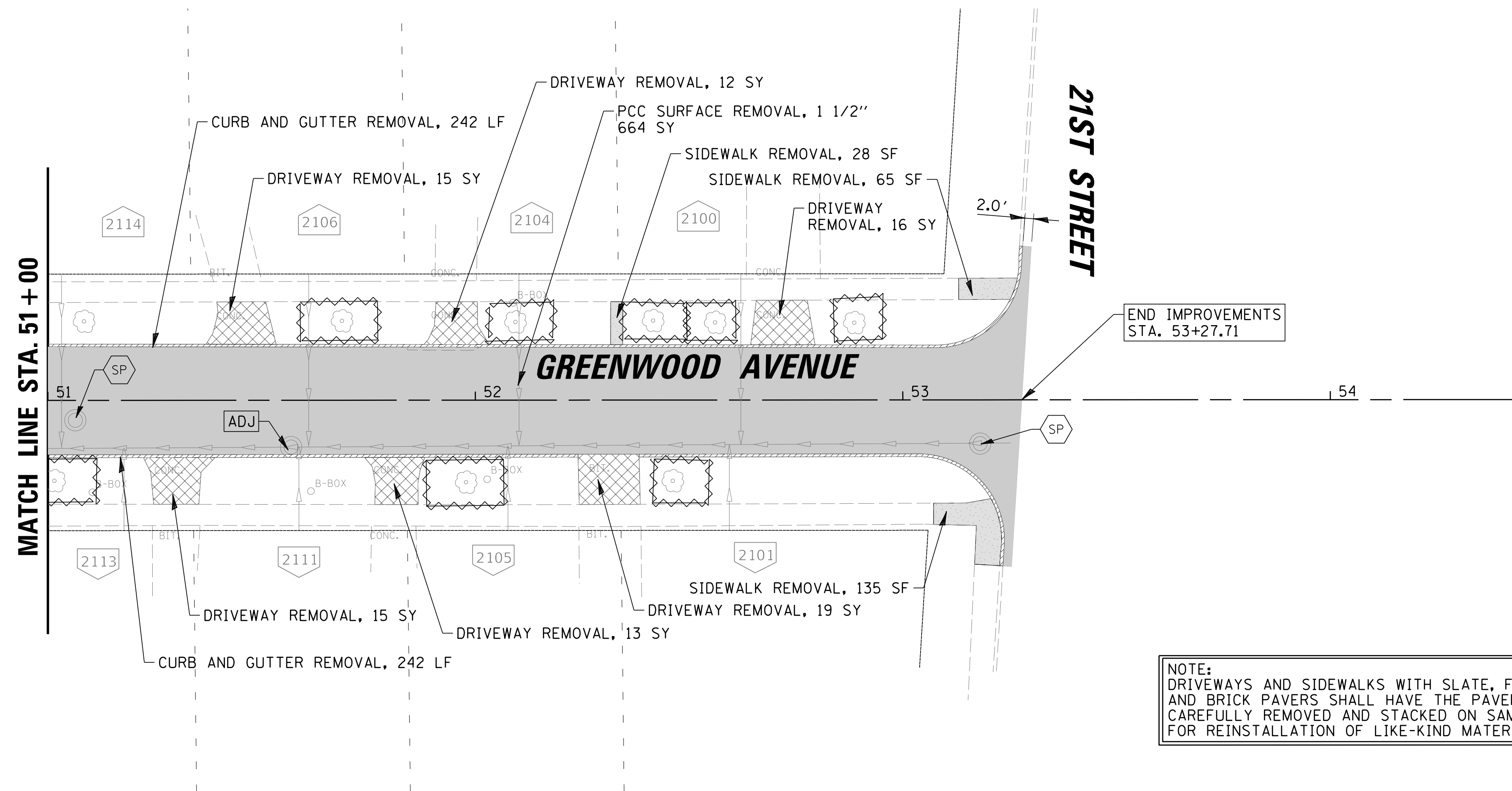
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

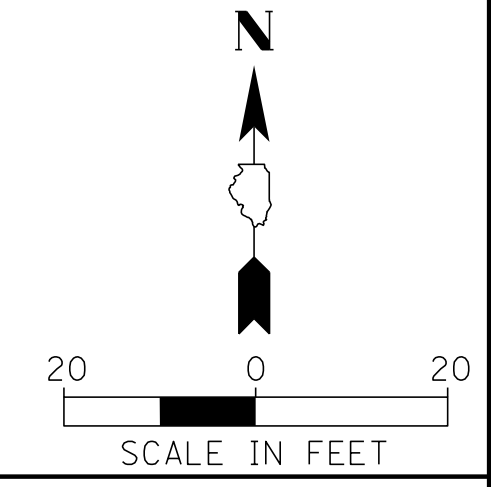
NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\REM_C3_180245_04.sht		

TITLE: **WSNSP CONTRACT #3  
 GREENWOOD AVENUE  
 EX CONDITIONS & REMOVAL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 33 OF 207  
 DRAWING NO. **33**



NOTE:  
 DRIVEWAYS AND SIDEWALKS WITH SLATE, FLAGSTONE  
 AND BRICK PAVERS SHALL HAVE THE PAVERS  
 CAREFULLY REMOVED AND STACKED ON SAME PROPERTY  
 FOR REINSTALLATION OF LIKE-KIND MATERIAL



**LEGEND**

- CLASS D PATCH, 6" (SPECIAL)
- CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
- CLASS B PATCH, 12" (SPECIAL)
- PAVEMENT REMOVAL (20")
- HMA SURFACE REMOVAL, 2"
- PCC SURFACE REMOVAL, 1 1/2"
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- COMBINATION CURB & GUTTER REMOVAL ( • AS DIRECTED BY ENGINEER )
- STORM SEWER REMOVAL
- VALVE VAULTS TO BE ADJUSTED
- STRUCTURES TO BE ADJUSTED
- STRUCTURES TO BE REMOVED
- STRUCTURES TO BE ADJUSTED, SPECIAL
- FIRE HYDRANT TO BE REMOVED
- TREE ROOT PRUNING
- TREE REMOVAL

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 Rosemont, Illinois 60018  
 (847) 823-0500

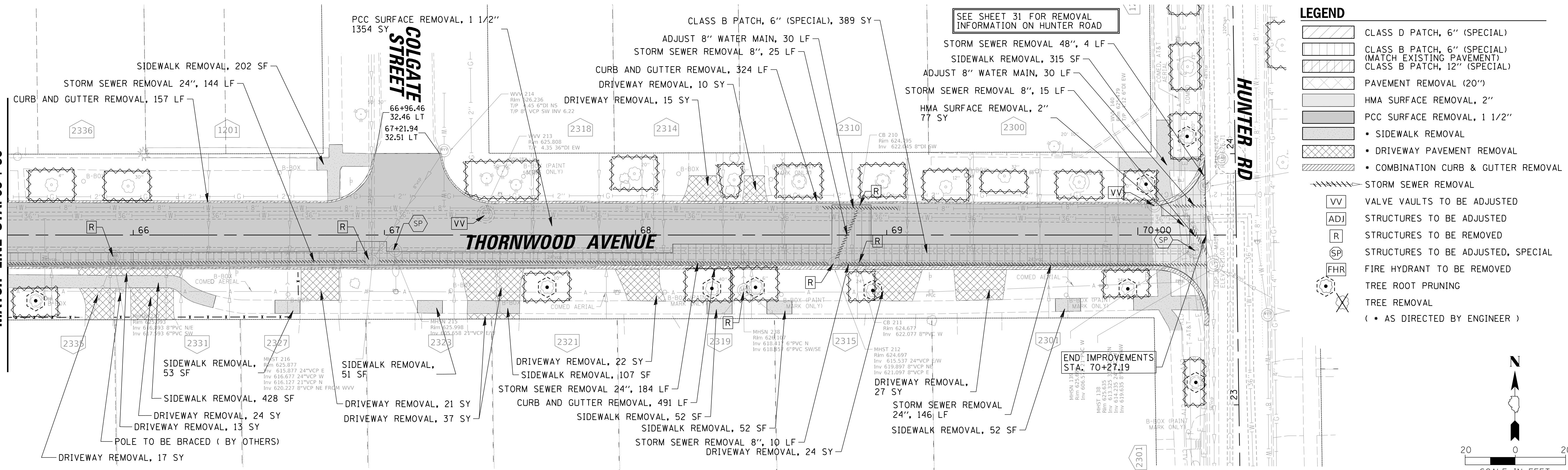
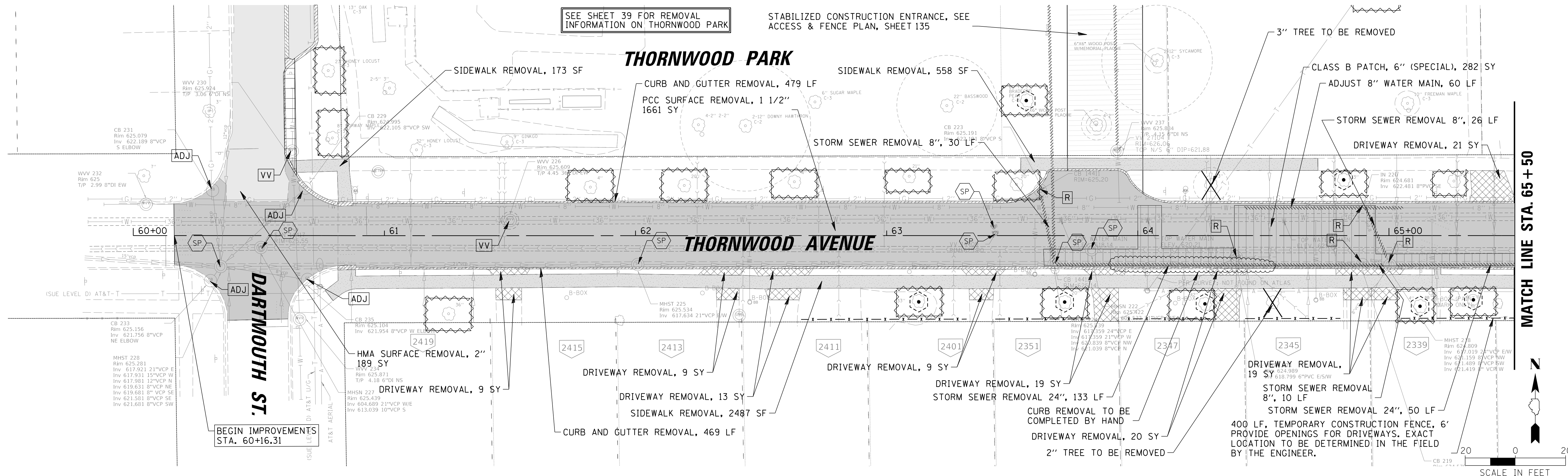


CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\REM.C3.180245_05.sht		

TITLE: **WSNSP CONTRACT #3  
 GREENWOOD AVENUE  
 EX CONDITIONS & REMOVAL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 34 OF 207  
 DRAWING NO. **34**



**LEGEND**

[Symbol]	CLASS D PATCH, 6" (SPECIAL)
[Symbol]	CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
[Symbol]	CLASS B PATCH, 12" (SPECIAL)
[Symbol]	PAVEMENT REMOVAL (20")
[Symbol]	HMA SURFACE REMOVAL, 2"
[Symbol]	PCC SURFACE REMOVAL, 1 1/2"
[Symbol]	• SIDEWALK REMOVAL
[Symbol]	• DRIVEWAY PAVEMENT REMOVAL
[Symbol]	• COMBINATION CURB & GUTTER REMOVAL
[Symbol]	STORM SEWER REMOVAL
[Symbol]	VALVE VAULTS TO BE ADJUSTED
[Symbol]	STRUCTURES TO BE ADJUSTED
[Symbol]	STRUCTURES TO BE REMOVED
[Symbol]	STRUCTURES TO BE ADJUSTED, SPECIAL
[Symbol]	FIRE HYDRANT TO BE REMOVED
[Symbol]	TREE ROOT PRUNING
[Symbol]	TREE REMOVAL
[Symbol]	( • AS DIRECTED BY ENGINEER )

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 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	BY	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
		NATURE OF REVISION		
FILE NAME	N:\wilmette\180245.00004\CIVIL\REM_C3_180245_06.shx			

TITLE: **WSNSP CONTRACT #3  
 THORNWOOD AVENUE  
 EX CONDITIONS & REMOVAL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 35 OF 207  
 DRAWING NO. **35**

SEE SHEET 32 FOR REMOVAL INFORMATION ON HUNTER ROAD

BEGIN IMPROVEMENTS STA. 70+12.29

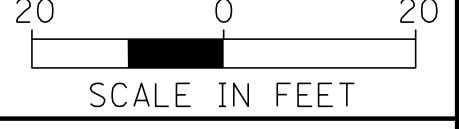
- LEGEND**
- CLASS D PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
  - CLASS B PATCH, 12" (SPECIAL)
  - PAVEMENT REMOVAL (20")
  - HMA SURFACE REMOVAL, 2"
  - PCC SURFACE REMOVAL, 1 1/2"
  - SIDEWALK REMOVAL
  - DRIVEWAY PAVEMENT REMOVAL
  - COMBINATION CURB & GUTTER REMOVAL
  - STORM SEWER REMOVAL
  - VALVE VAULTS TO BE ADJUSTED
  - STRUCTURES TO BE ADJUSTED
  - STRUCTURES TO BE REMOVED
  - STRUCTURES TO BE ADJUSTED, SPECIAL
  - FIRE HYDRANT TO BE REMOVED
  - TREE ROOT PRUNING
  - TREE REMOVAL
  - ( • AS DIRECTED BY ENGINEER )

HUNTER RD

BEECHWOOD AVENUE

MATCH LINE STA. 75 + 00

NOTE:  
DRIVEWAYS AND SIDEWALKS WITH SLATE, FLAGSTONE AND BRICK PAVERS SHALL HAVE THE PAVERS CAREFULLY REMOVED AND STACKED ON SAME PROPERTY FOR REINSTALLATION OF LIKE-KIND MATERIAL



MATCH LINE STA. 75 + 00

BEECHWOOD AVENUE

MATCH LINE STA. 81 + 00

NOTE:  
DRIVEWAYS AND SIDEWALKS WITH SLATE, FLAGSTONE AND BRICK PAVERS SHALL HAVE THE PAVERS CAREFULLY REMOVED AND STACKED ON SAME PROPERTY FOR REINSTALLATION OF LIKE-KIND MATERIAL



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Rosemont, Illinois 60018  
(847) 823-0500

**BAXTER & WOODMAN**  
Consulting Engineers

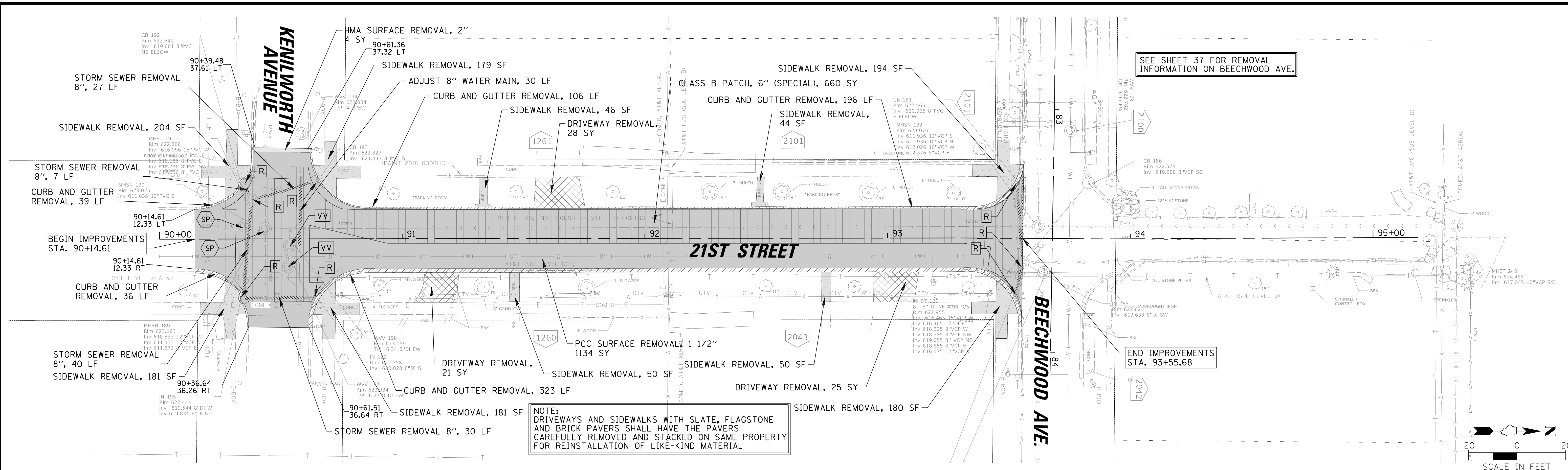
CLIENT: **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	NO.	DATE	REVISION
1	7/28/21	REVISED PER MWRD COMMENTS	MAK		
		NATURE OF REVISION	CHKD.		
		FILE NAME			
		N:\wilmette\180245.0004\Civil\REM.C3_180245_07.sht			

TITLE: **WSNSP CONTRACT #3  
BEECHWOOD AVENUE  
EX CONDITIONS & REMOVAL PLAN**

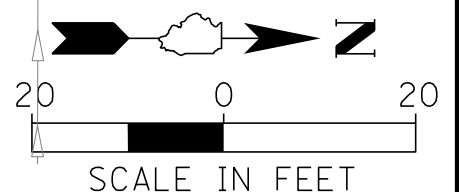
PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 36 OF 207  
DRAWING NO. **36**





SEE SHEET 37 FOR REMOVAL INFORMATION ON BEECHWOOD AVE.

NOTE:  
DRIVEWAYS AND SIDEWALKS WITH SLATE, FLAGSTONE AND BRICK PAVERS SHALL HAVE THE PAVERS CAREFULLY REMOVED AND STACKED ON SAME PROPERTY FOR REINSTALLATION OF LIKE-KIND MATERIAL



**LEGEND**

	CLASS D PATCH, 6" (SPECIAL)
	CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
	CLASS B PATCH, 12" (SPECIAL)
	PAVEMENT REMOVAL (20")
	HMA SURFACE REMOVAL, 2"
	PCC SURFACE REMOVAL, 1 1/2"
	• SIDEWALK REMOVAL
	• DRIVEWAY PAVEMENT REMOVAL
	• COMBINATION CURB & GUTTER REMOVAL
	STORM SEWER REMOVAL
	VV VALVE VAULTS TO BE ADJUSTED
	ADJ STRUCTURES TO BE ADJUSTED
	R STRUCTURES TO BE REMOVED
	SP STRUCTURES TO BE ADJUSTED, SPECIAL
	FHR FIRE HYDRANT TO BE REMOVED
	• TREE ROOT PRUNING
	• TREE REMOVAL
	( • AS DIRECTED BY ENGINEER )

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 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

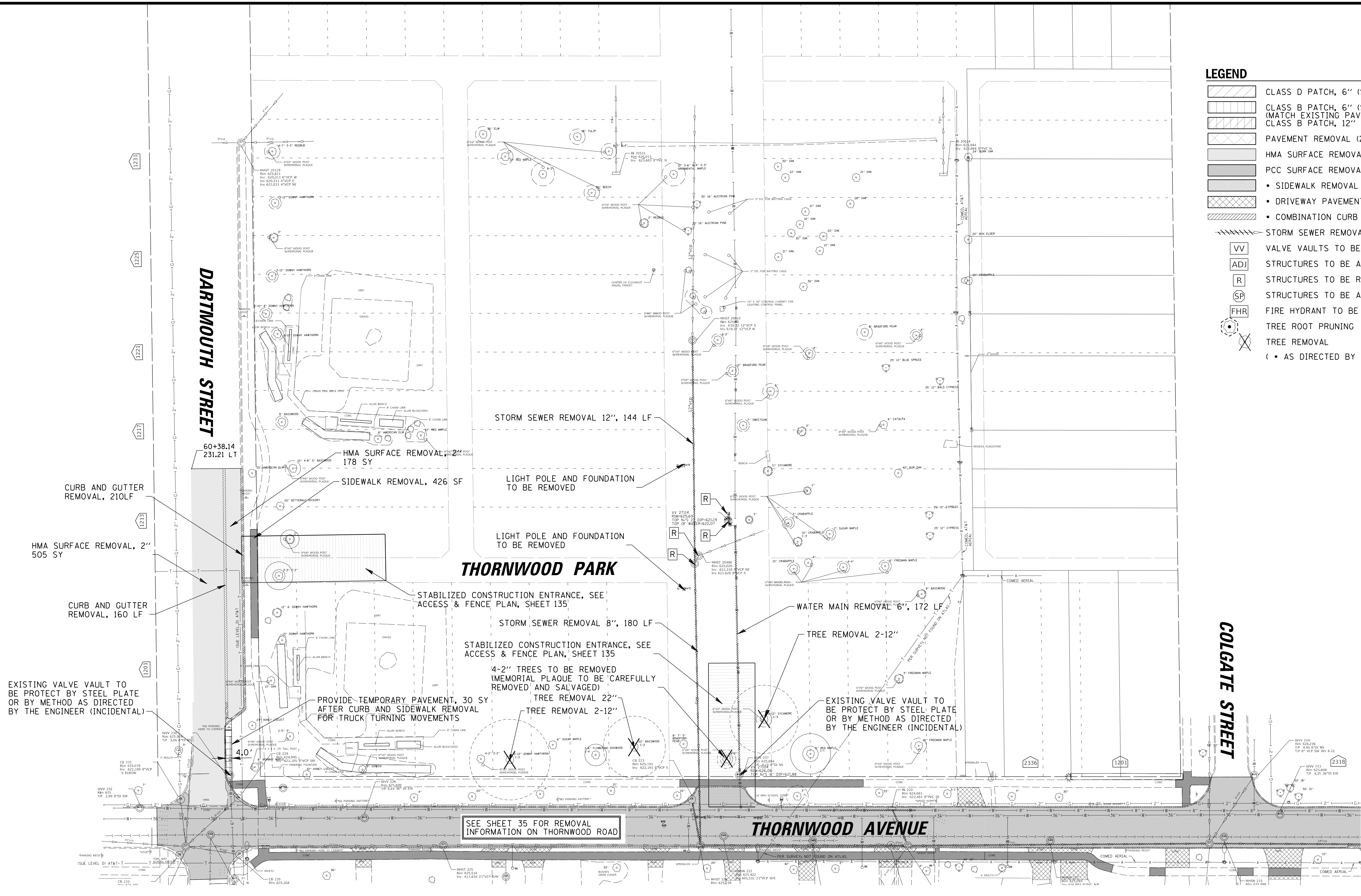
CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\REM.C3_180245_09.sht		

TITLE: **WSNSP CONTRACT #3**  
**21ST STREET**  
**EX CONDITIONS & REMOVAL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 38 OF 207  
 DRAWING NO. **38**

- LEGEND**
- CLASS D PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
  - CLASS B PATCH, 12" (SPECIAL)
  - PAVEMENT REMOVAL (20')
  - HMA SURFACE REMOVAL, 2"
  - PCC SURFACE REMOVAL, 1 1/2"
  - SIDEWALK REMOVAL
  - DRIVEWAY PAVEMENT REMOVAL
  - COMBINATION CURB & GUTTER REMOVAL
  - STORM SEWER REMOVAL
  - VALVE VAULTS TO BE ADJUSTED
  - STRUCTURES TO BE ADJUSTED
  - STRUCTURES TO BE REMOVED
  - STRUCTURES TO BE ADJUSTED, SPECIAL
  - FIRE HYDRANT TO BE REMOVED
  - TREE ROOT PRUNING
  - TREE REMOVAL (• AS DIRECTED BY ENGINEER)



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 Rosemont, Illinois 60018  
 (847) 823-0500











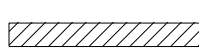
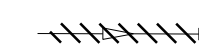



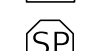
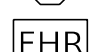
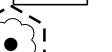

**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

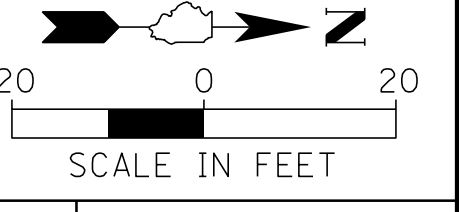
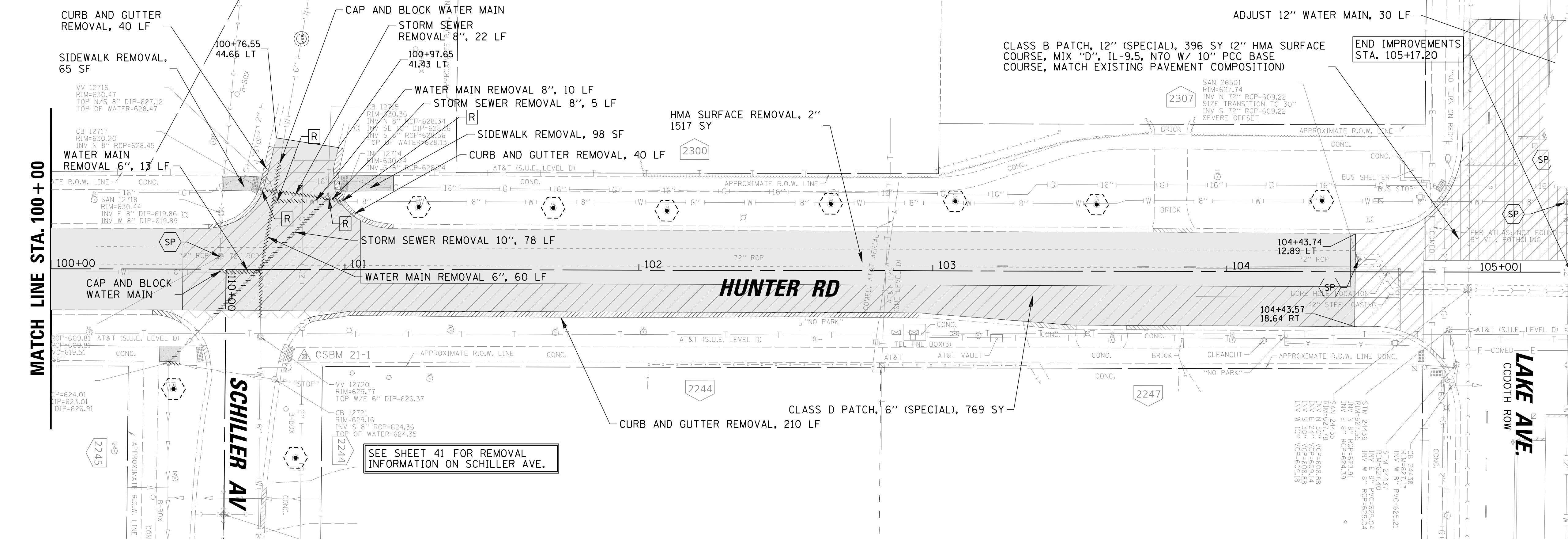
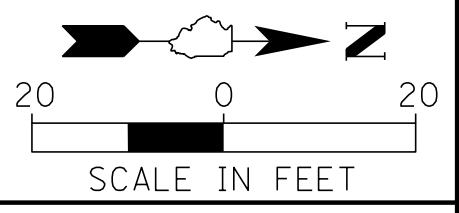
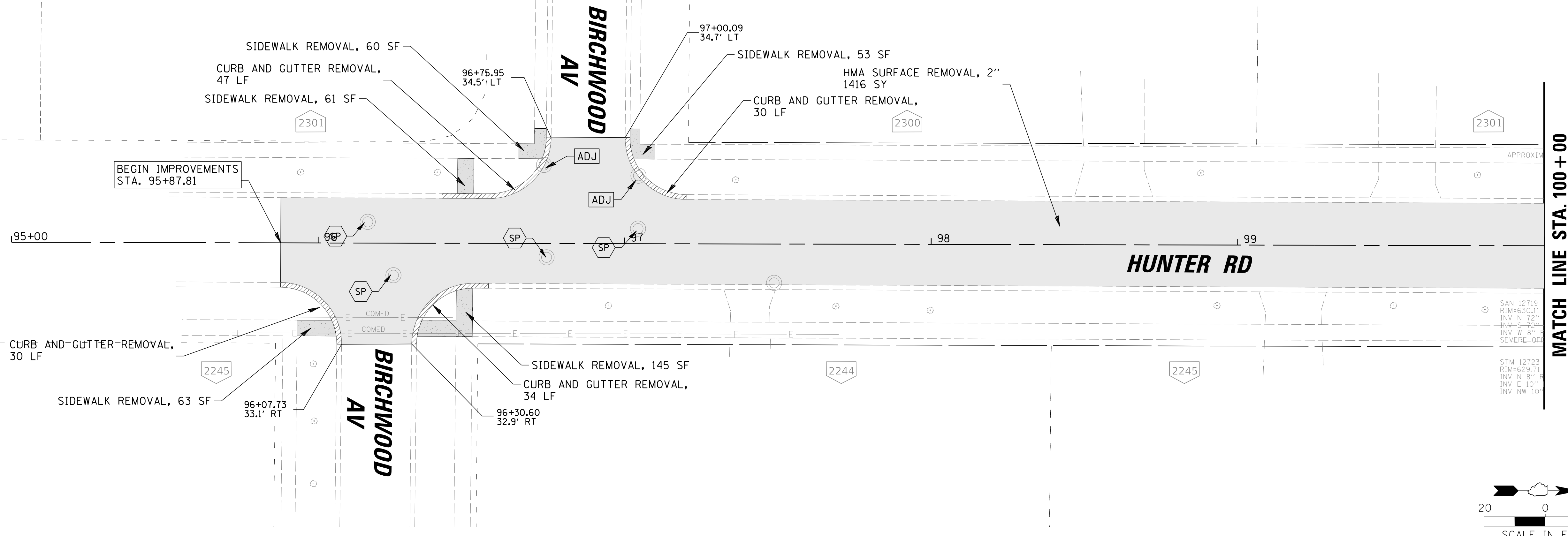
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**WSNSP CONTRACT #3**  
**THORNWOOD PARK**  
**EX CONDITIONS & REMOVAL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 39 OF 207  
 DRAWING NO.  
**39**

**LEGEND**

-  CLASS D PATCH, 6" (SPECIAL)
-  CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
-  CLASS B PATCH, 12" (SPECIAL)
-  PAVEMENT REMOVAL (20")
-  HMA SURFACE REMOVAL, 2"
-  PCC SURFACE REMOVAL, 1 1/2"
-  • SIDEWALK REMOVAL
-  • DRIVEWAY PAVEMENT REMOVAL
-  • COMBINATION CURB & GUTTER REMOVAL
-  STORM SEWER REMOVAL
-  VV VALVE VAULTS TO BE ADJUSTED
-  ADJ STRUCTURES TO BE ADJUSTED
-  R STRUCTURES TO BE REMOVED
-  SP STRUCTURES TO BE ADJUSTED, SPECIAL
-  FHR FIRE HYDRANT TO BE REMOVED
-  TREE ROOT PRUNING
-  TREE REMOVAL
- ( • AS DIRECTED BY ENGINEER )



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 Rosemont, Illinois 60018  
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**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

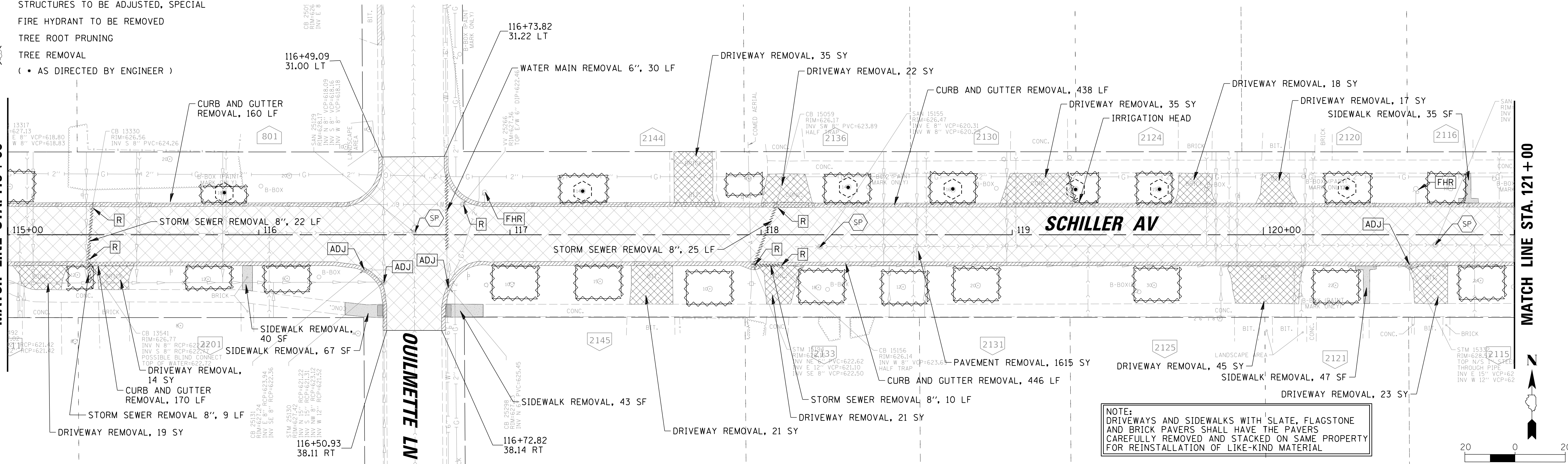
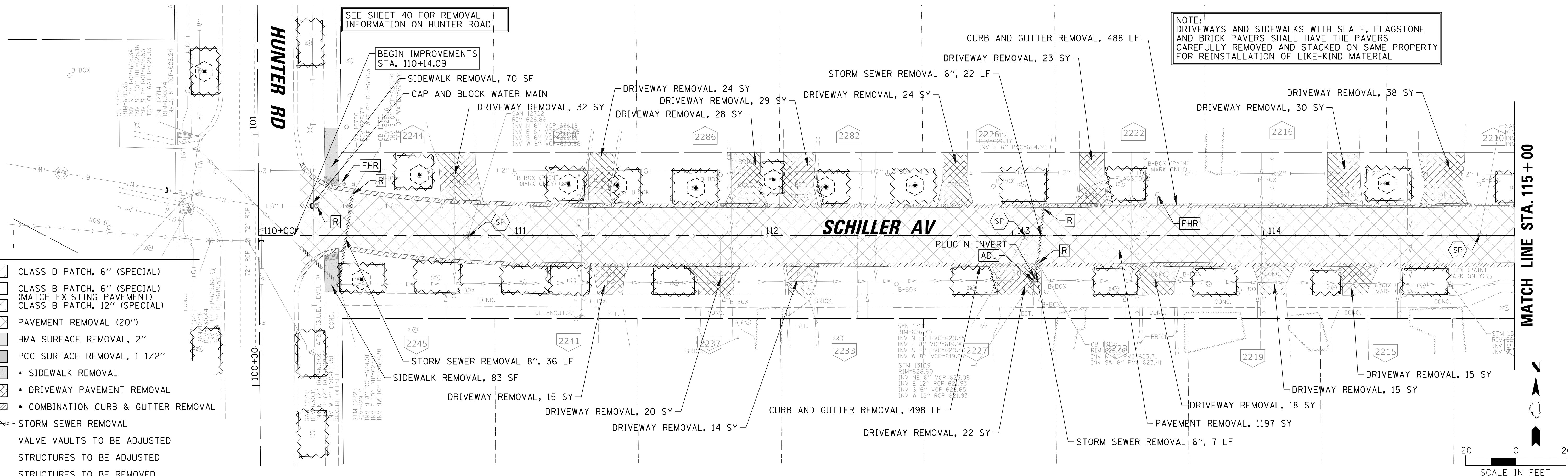
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DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	10/8/2021
CAD USER:	mkoonce
MODEL:	Default

TITLE: **WSNSP CONTRACT #3  
 HUNTER ROAD  
 EX CONDITIONS & REMOVAL PLAN**

PROJ. NO.	180245.0004
DATE:	10/8/2021
SHEET	40 OF 207
DRAWING NO.	<b>40</b>





- LEGEND**
- CLASS D PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
  - CLASS B PATCH, 12" (SPECIAL)
  - PAVEMENT REMOVAL (20")
  - HMA SURFACE REMOVAL, 2"
  - PCC SURFACE REMOVAL, 1 1/2"
  - SIDEWALK REMOVAL
  - DRIVEWAY PAVEMENT REMOVAL
  - COMBINATION CURB & GUTTER REMOVAL
  - STORM SEWER REMOVAL
  - VALVE VAULTS TO BE ADJUSTED
  - STRUCTURES TO BE ADJUSTED
  - STRUCTURES TO BE REMOVED
  - STRUCTURES TO BE ADJUSTED, SPECIAL
  - FIRE HYDRANT TO BE REMOVED
  - TREE ROOT PRUNING
  - TREE REMOVAL
  - ( • AS DIRECTED BY ENGINEER )

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

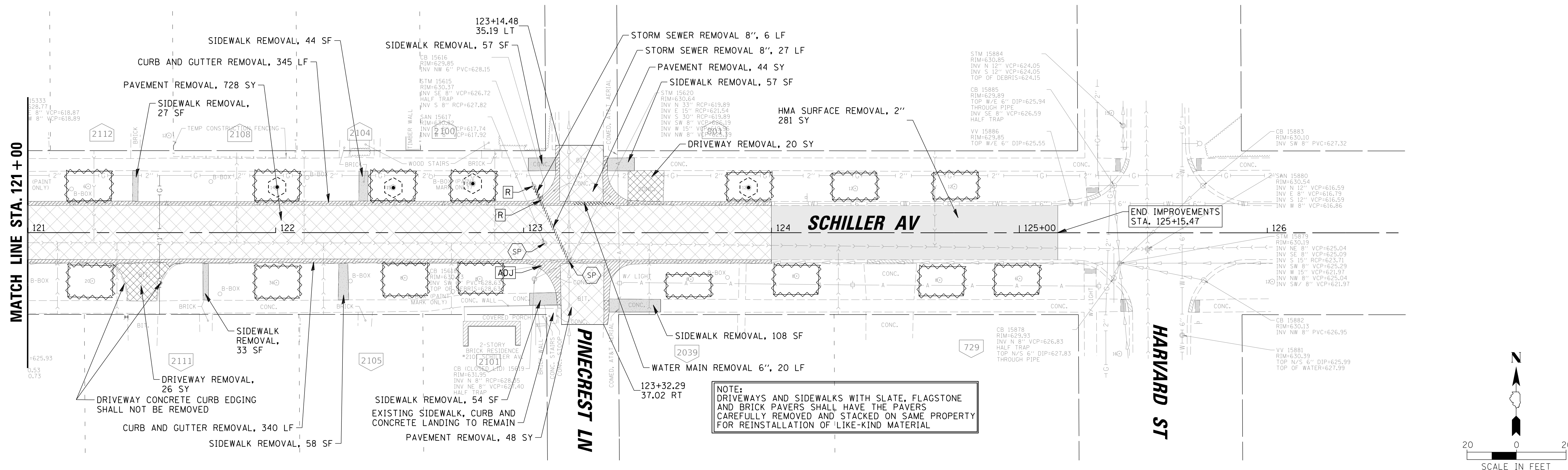


CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	BY	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\REM_C3_180245_12.sht		

TITLE: **WSNSP CONTRACT #3  
 SCHILLER AVENUE  
 EX CONDITIONS & REMOVAL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 41 OF 207  
 DRAWING NO. **41**



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

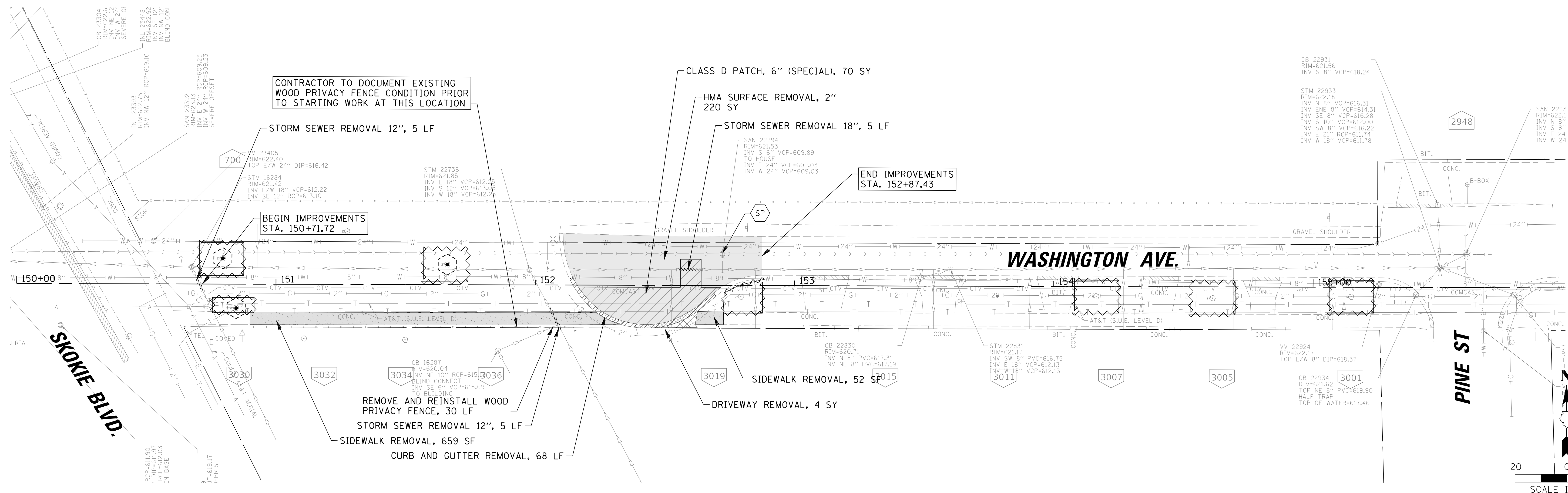
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
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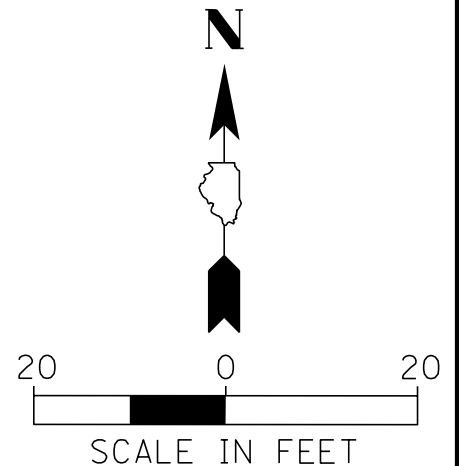
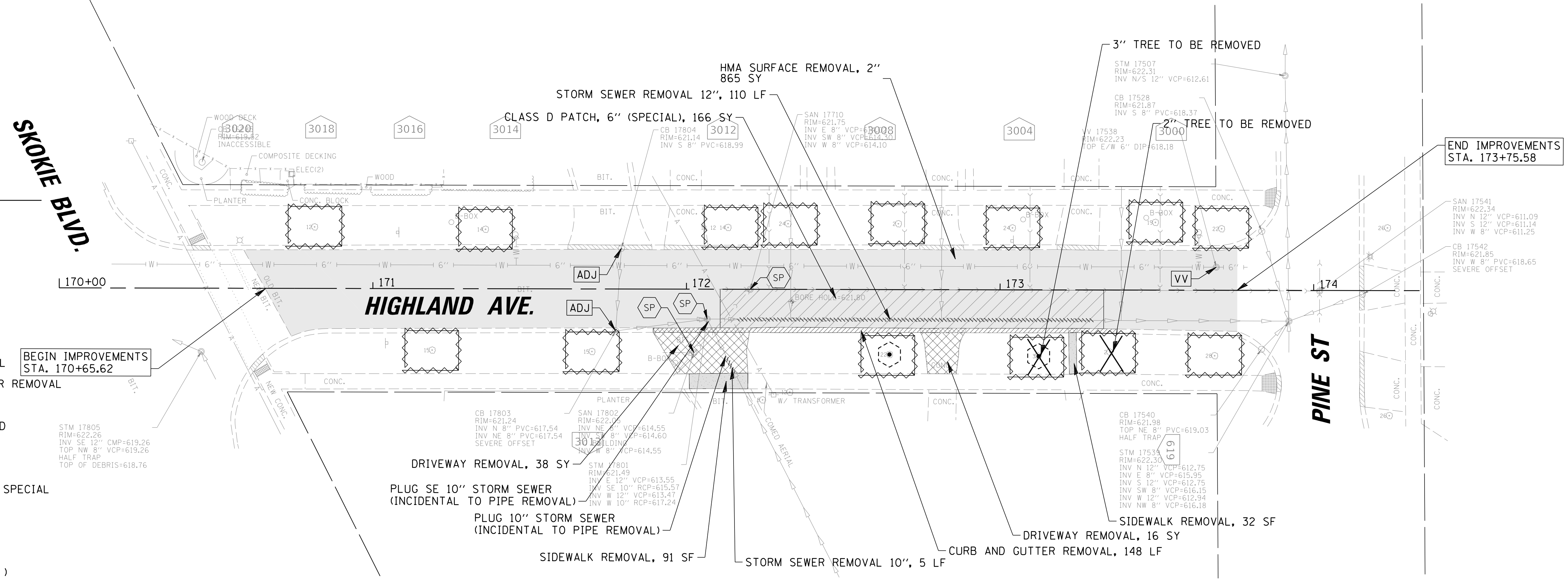
TITLE: **WSNSP CONTRACT #3  
 SCHILLER AVENUE  
 EX CONDITIONS & REMOVAL PLAN**

PROJ. NO.	180245.0004
DATE:	10/8/2021
SHEET	42 OF 207
DRAWING NO.	<b>42</b>



**LEGEND**

- CLASS D PATCH, 6" (SPECIAL)
- CLASS B PATCH, 6" (SPECIAL) (MATCH EXISTING PAVEMENT)
- CLASS B PATCH, 12" (SPECIAL)
- PAVEMENT REMOVAL (20")
- HMA SURFACE REMOVAL, 2"
- PCC SURFACE REMOVAL, 1 1/2"
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- COMBINATION CURB & GUTTER REMOVAL
- STORM SEWER REMOVAL
- VV VALVE VAULTS TO BE ADJUSTED
- ADJ STRUCTURES TO BE ADJUSTED
- R STRUCTURES TO BE REMOVED
- SP STRUCTURES TO BE ADJUSTED, SPECIAL
- FHR FIRE HYDRANT TO BE REMOVED
- TREE ROOT PRUNING
- TREE REMOVAL
- ( • AS DIRECTED BY ENGINEER )



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
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 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
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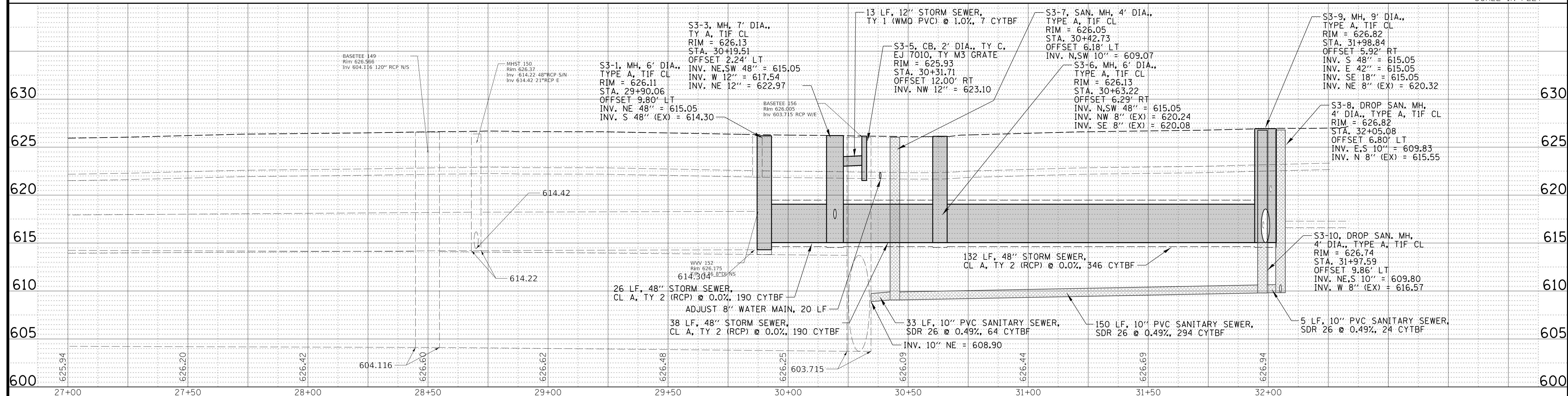
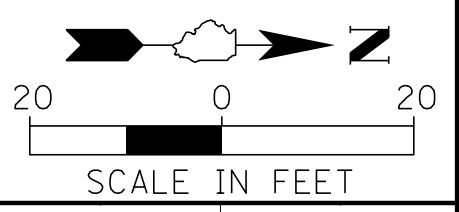
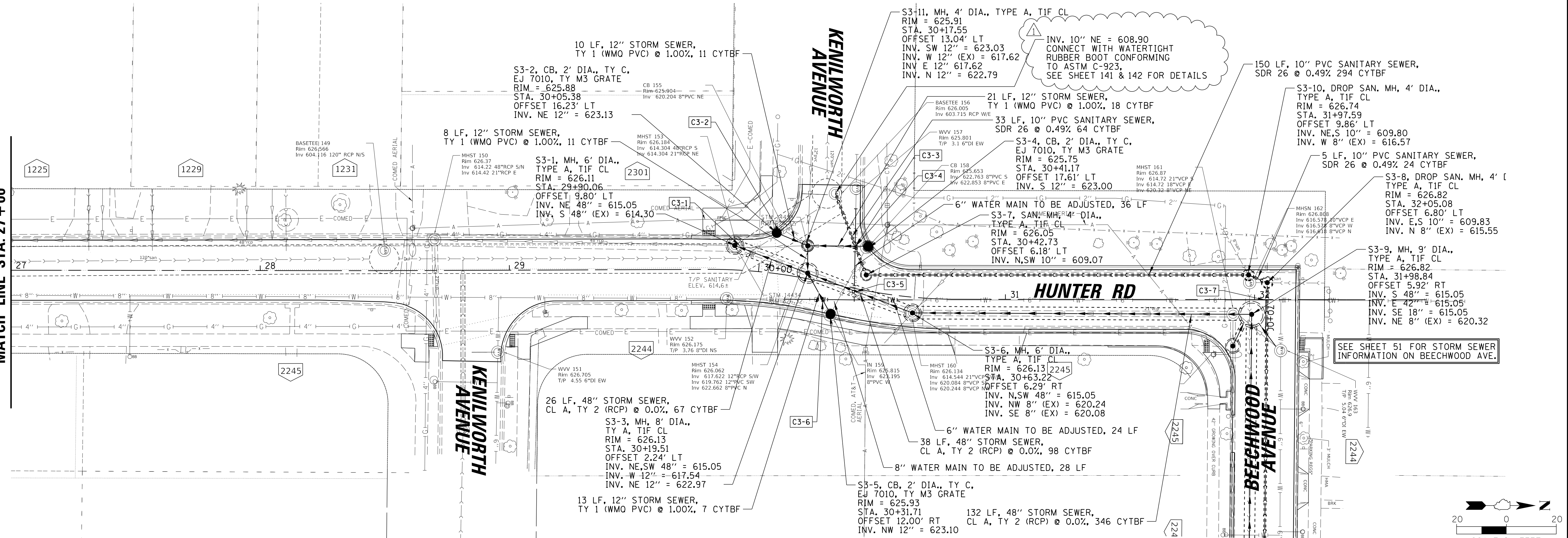
TITLE: **WSNSP CONTRACT #3  
 WASHINGTON & HIGHLAND AVE.  
 EX CONDITIONS & REMOVAL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 43 OF 207  
 DRAWING NO. **43**





MATCH LINE STA. 27+00



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
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Rosemont, Illinois 60018  
(847) 823-0500

**BAXTER & WOODMAN**  
Consulting Engineers

CLIENT: **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	De'fault
FILE NAME		N:\wilmette\180245.00004\Civil\DDP_C3_180245_04.sht		

TITLE: **WSNSP CONTRACT #3  
HUNTER ROAD  
DRAINAGE PLAN AND PROFILE**

PROJECT NO. 180245.0004  
DATE: 10/8/2021  
SHEET 46 OF 207  
DRAWING NO. **46**

SEE SHEET 44 FOR STORM SEWER INFORMATION ON HUNTER ROAD

S1-6, DROP SAN. MH, 5' DIA., TYPE A, TIF CL  
RIM = 626.02  
STA. 39+95.49  
OFFSET 4.49' RT  
INV. N 21" (EX) = 607.34  
INV. S 21" (EX) = 607.38  
INV. E 10" = 610.15

S1-5, 60" BASE TEE MANHOLE W/ 48" DIA. RISER, TIF CL  
RIM = 625.88  
STA. 39+89.19  
OFFSET 11.82' RT  
INV. N,S 60" = 613.54  
INV. E 30" = 613.54  
INV. NE 10" (EX) = 619.56

36 LF, 10" PVC SANITARY SEWER, SDR 26 @ 0.56%, 65 CYTBF  
S4-1, MH, 5' DIA., TYPE A, TIF CL  
RIM = 626.00  
STA. 40+24.42  
OFFSET 6.00' RT  
INV. E 30" = 616.25  
INV. W 30" = 613.85  
INV. S 18" = 616.08

S4-3, SAN. MH, 4' DIA., TYPE A, TIF CL  
RIM = 626.01  
STA. 40+34.35  
OFFSET 0.00' RT  
INV. W,E 10" = 610.35

15 LF, 12" STORM SEWER, TY 1 (WMO PVC) @ 1.00%, 4 CYTBF  
3 LF, 18" STORM SEWER, TY 1 (WMO PVC) @ 0.40%, 5 CYTBF

S4-6, CB, 2' DIA., TY C, EJ 7010, TY M3 GRATE  
RIM = 624.77  
STA. 41+49.70  
OFFSET 12.00' LT  
INV. SW 12" = 621.53

246 LF, 10" PVC SANITARY SEWER, SDR 26 @ 0.56%, 446 CYTBF

S4-7, SAN. MH, 4' DIA., TYPE A, TIF CL  
RIM = 625.62  
STA. 42+84.35  
OFFSET 0.00' RT  
INV. W,E 10" = 611.73

214 LF, 10" PVC SANITARY SEWER, SDR 26 @ 0.56%, 377 CYTBF

S4-2, MH, 4' DIA., TYPE A, TIF CL  
RIM = 625.85  
STA. 40+25.02  
OFFSET 12.57' RT  
INV. E 18" (EX) = 616.09  
INV. N 18" = 616.09

31 LF, 30" STORM SEWER, CL A, TY 2 (RCP) @ 1.00%, 73 CYTBF

S4-5, CB, 2' DIA., TY C, EJ 7010, TY M3 GRATE  
RIM = 624.77  
STA. 41+50.45  
OFFSET 12.00' RT  
INV. NW 12" = 621.50

6 LF, 12" STORM SEWER, TY 1 (WMO PVC) @ 2.00%, 2 CYTBF

S4-4, MH, 5' DIA., TYPE A, TIF CL  
RIM = 624.89  
STA. 41+42.03  
OFFSET 6.00' RT  
INV. E,W 30" = 616.42  
INV. NE 12" = 621.38  
INV. SE 12" = 621.38

113 LF, 30" STORM SEWER, CL A, TY 2 (RCP) @ 0.15%, 188 CYTBF

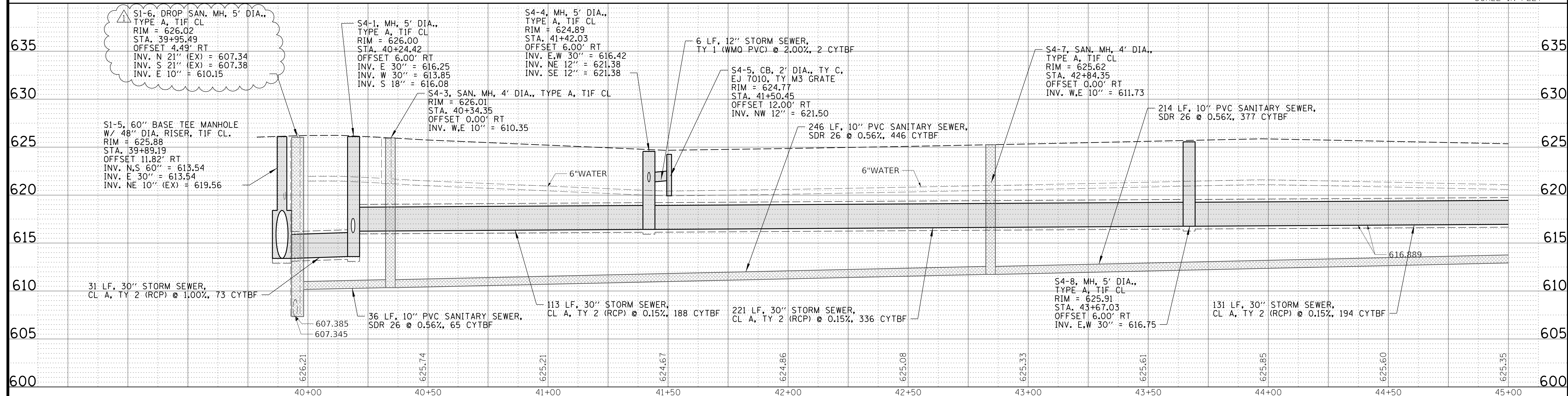
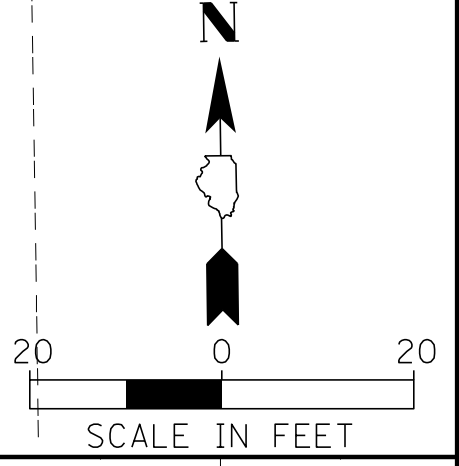
S4-8, MH, 5' DIA., TYPE A, TIF CL  
RIM = 625.91  
STA. 43+67.03  
OFFSET 6.00' RT  
INV. E,W 30" = 616.75

131 LF, 30" STORM SEWER, CL A, TY 2 (RCP) @ 0.15%, 194 CYTBF

HUNTER RD

GREENWOOD AVENUE

MATCH LINE STA. 45 + 00



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Consulting Engineers

CLIENT:  
**Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

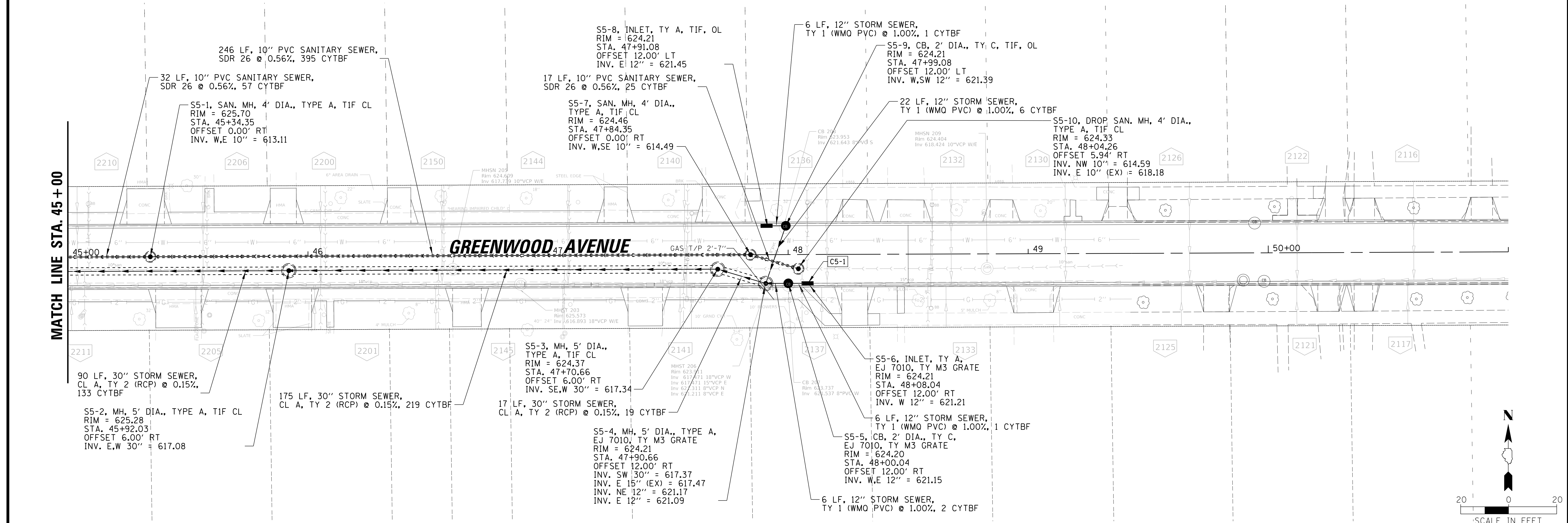
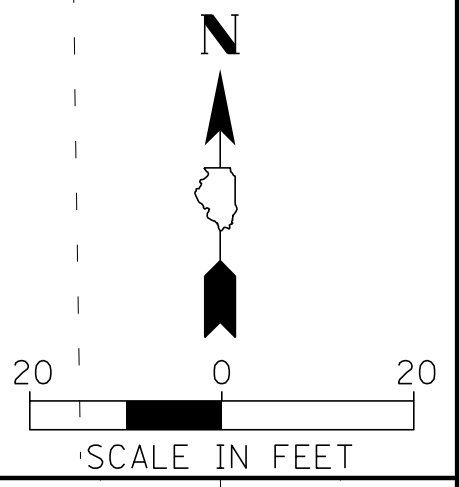
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TITLE:  
**WSNSP CONTRACT #3  
GREENWOOD AVENUE  
DRAINAGE PLAN AND PROFILE**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 47 OF 207  
DRAWING NO.  
**47**

MATCH LINE STA. 45 + 00

**GREENWOOD AVENUE**



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 WILMETTE, IL 60091-0040



NO.	DATE	REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
		NATURE OF REVISION		
FILE NAME	N:\wilmette\180245.0004\Civil\DRP_C3_180245_06.sht			

TITLE: **WSNSP CONTRACT #3  
 GREENWOOD AVENUE  
 DRAINAGE PLAN AND PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 48 OF 207  
 DRAWING NO. **48**





MATCH LINE STA. 66 + 00

S7-1, MH, 8' DIA., TYPE A, TIF CL  
RIM = 626.08  
STA. 66+94.85  
OFFSET 12.50' RT  
INV. W.E 4'(W)X6'(H) = 613.99  
INV. N 21"(EX) = 616.13  
INV. NE 8"(EX) = 620.23

**COLGATE STREET**

**THORNWOOD AVENUE**

**HUNTER RD**

ST-4, INLET, TY A, EJ 7010, TY M3 GRATE  
RIM = 624.96  
STA. 68+89.43  
OFFSET 12.00' LT  
INV. SW 12" = 622.04

SEE SHEET 45 FOR STORM SEWER INFORMATION ON HUNTER ROAD

ADJUST 8" WATER MAIN, 30 LF  
20 LF, 12" STORM SEWER, TY 1 (WMO PVC) @ 1.00%, 5 CYTBF

147 LF, 4'(W)X6'(H) STORM SEWER, CL A, TY 2 (PCBC) @ 0.05%, 361 CYTBF

4'(W)X6'(H) RCBC, 25° BEND  
STA. 67+44.08  
OFFSET 12.68' RT  
SANITARY SERVICE W/ CLEANOUT, TYP.

4'(W)X6'(H) PCBC, 25° BEND  
STA. 67+50.58  
OFFSET 9.62' RT

183 LF, 4'(W)X6'(H) STORM SEWER, CL A, TY 2 (PCBC) @ 0.05%, 437 CYTBF

S7-2, 4'(W)X6'(H) BASE TEE MANHOLE W/ 48" RISER, TIF CL  
RIM = 625.01  
STA. 68+79.98  
OFFSET 10.08' RT  
INV. W.E 4'(W)X6'(H) = 613.90  
INV. SE 12" = 621.85  
INV. NE 12" = 621.84

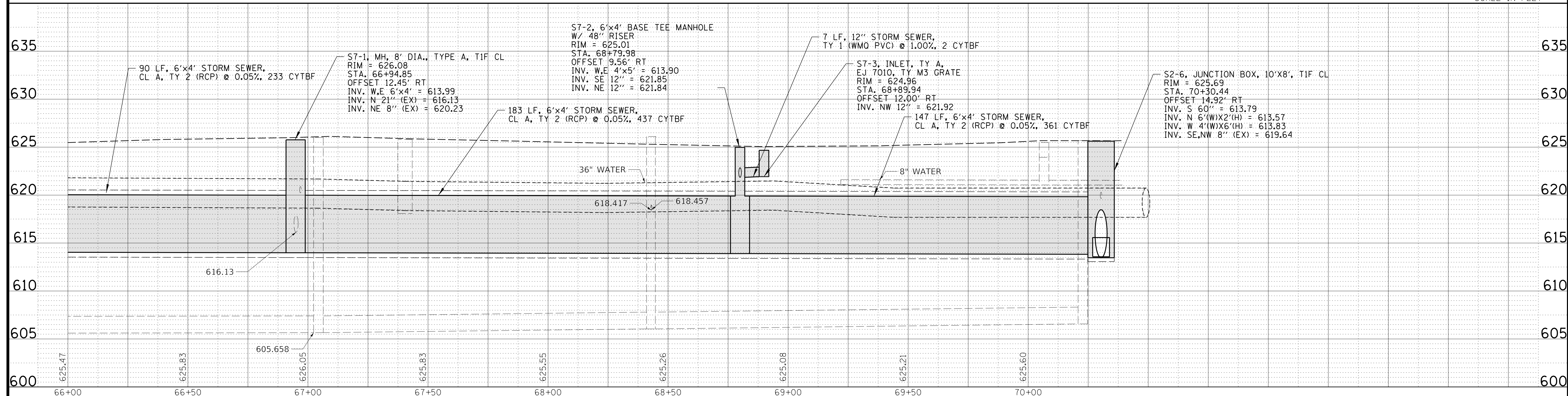
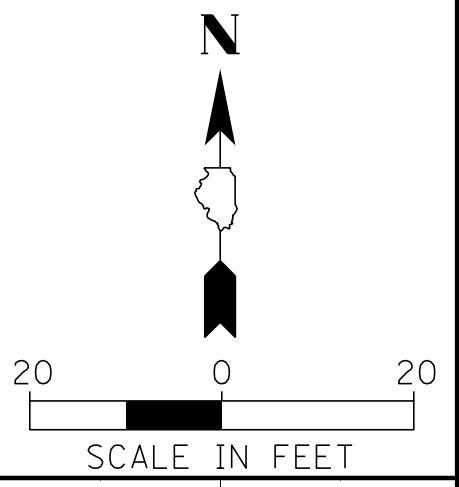
4'(W)X6'(H) PCBC, 9° BEND  
STA. 69+96.56  
OFFSET 10.17' RT

POLE TO BE BRACED DURING CONSTRUCTION (BY OTHERS)

S2-6, JUNCTION CHAMBER NO. 2  
10'X8', TIF CL  
RIM = 625.69  
STA. 70+30.44  
OFFSET 14.92' RT  
INV. S 60" = 613.79  
INV. N 6'(W)X2'(H) = 613.57  
INV. W 4'(W)X6'(H) = 613.83  
INV. SE,NW 8" (EX) = 619.64

S7-3, INLET, TY A, EJ 7010, TY M3 GRATE  
RIM = 624.96  
STA. 68+89.94  
OFFSET 12.00' RT  
INV. NW 12" = 621.92

NOTE:  
4'(W)X6'(H) STORM SEWER, SHALL BE DESIGNED FOR 6' VERTICAL AND 4' HORIZONTAL



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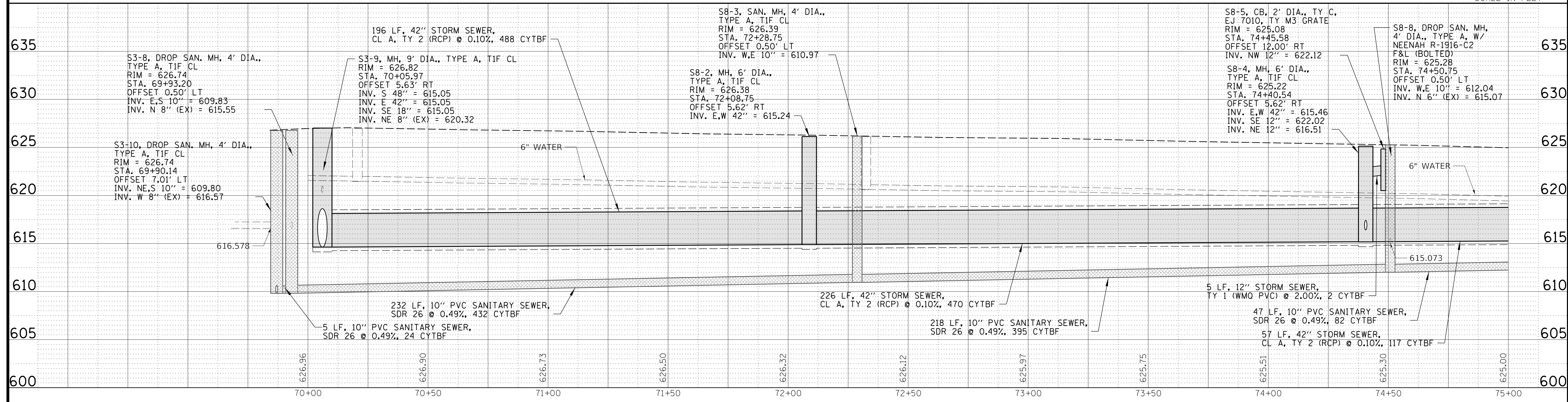
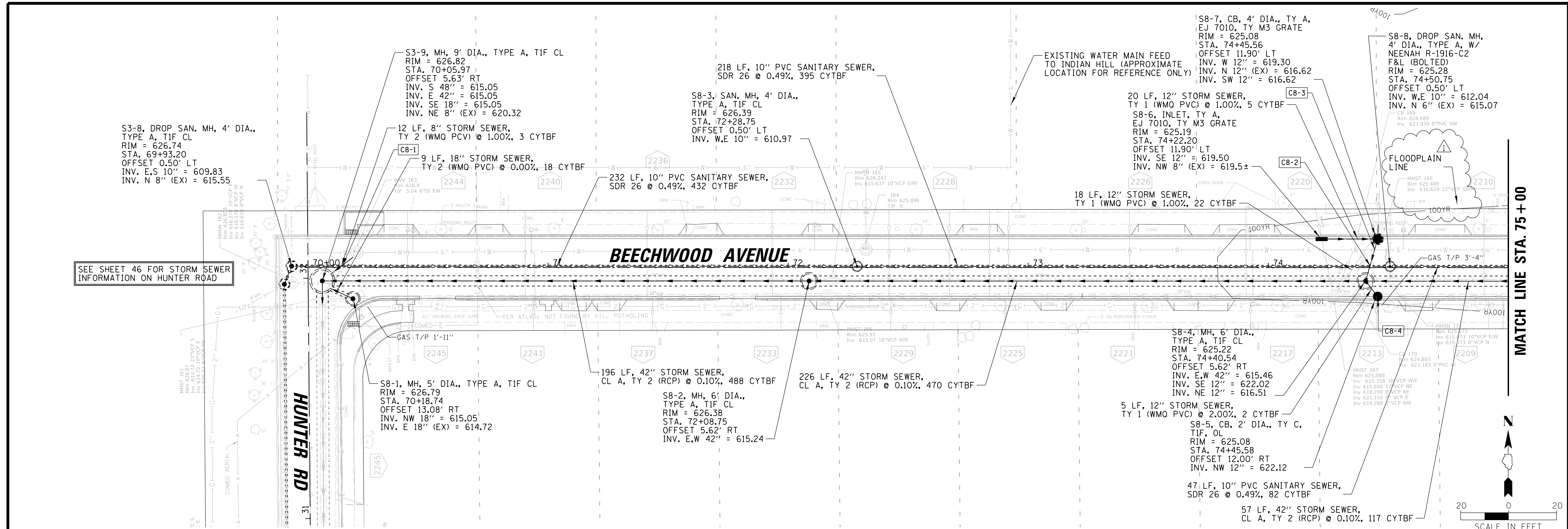
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**Village of Wilmette**  
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TITLE:  
**WSNSP CONTRACT #3  
THORNWOOD AVENUE  
DRAINAGE PLAN AND PROFILE**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 50 OF 207  
DRAWING NO.  
**50**



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 Consulting Engineers

CLIENT:

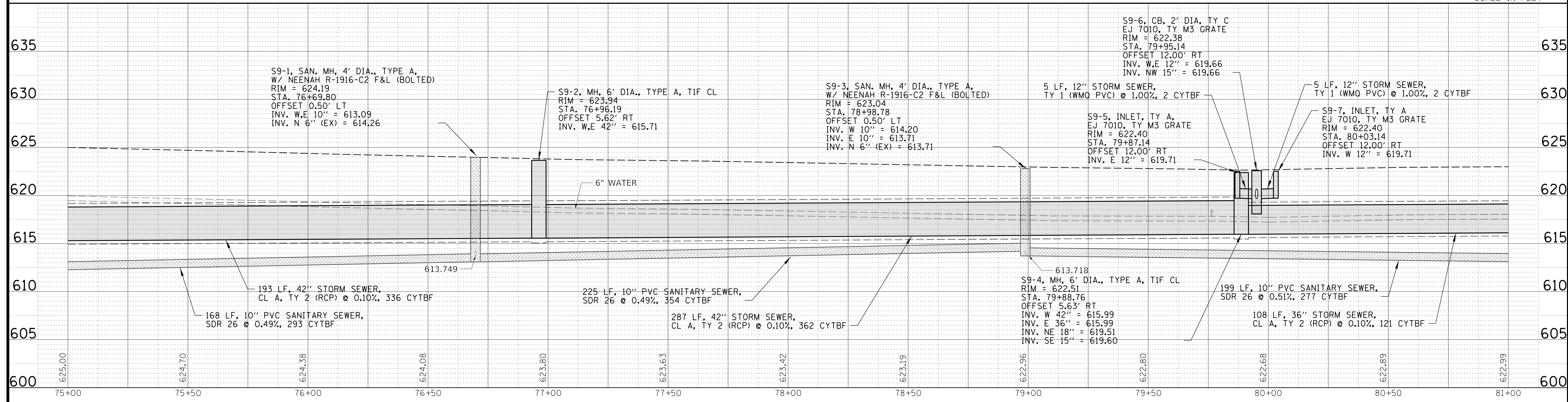
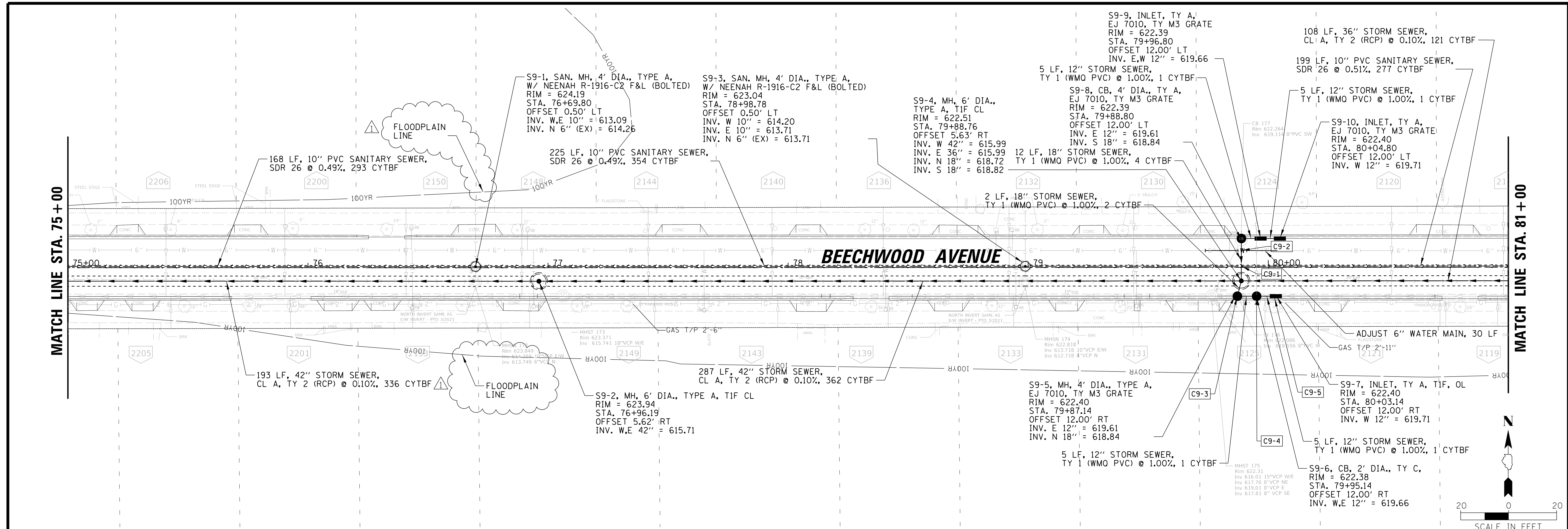
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TITLE:

**WSNSP CONTRACT #3**  
**BEECHWOOD AVENUE**  
**DRAINAGE PLAN AND PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 51 OF 207  
 DRAWING NO.  
**51**



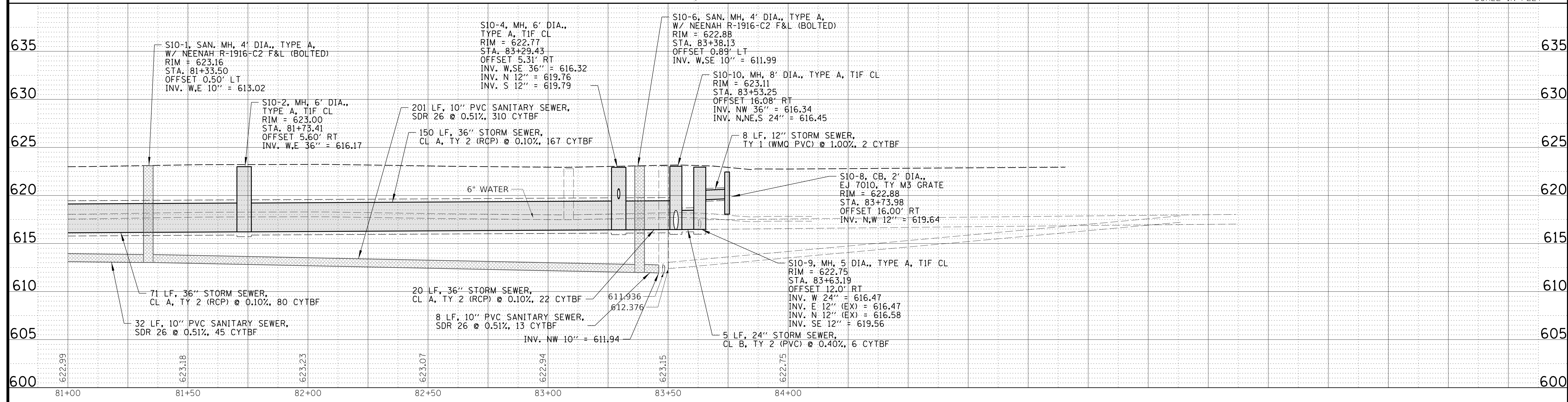
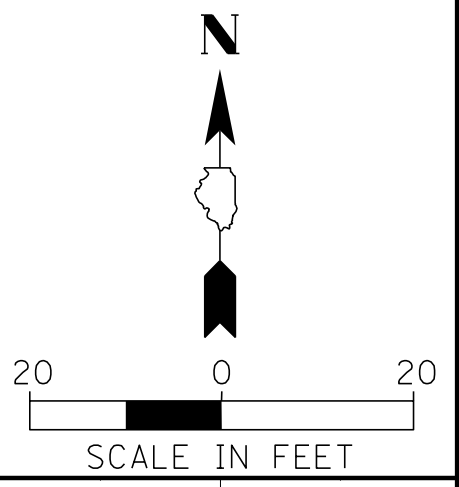
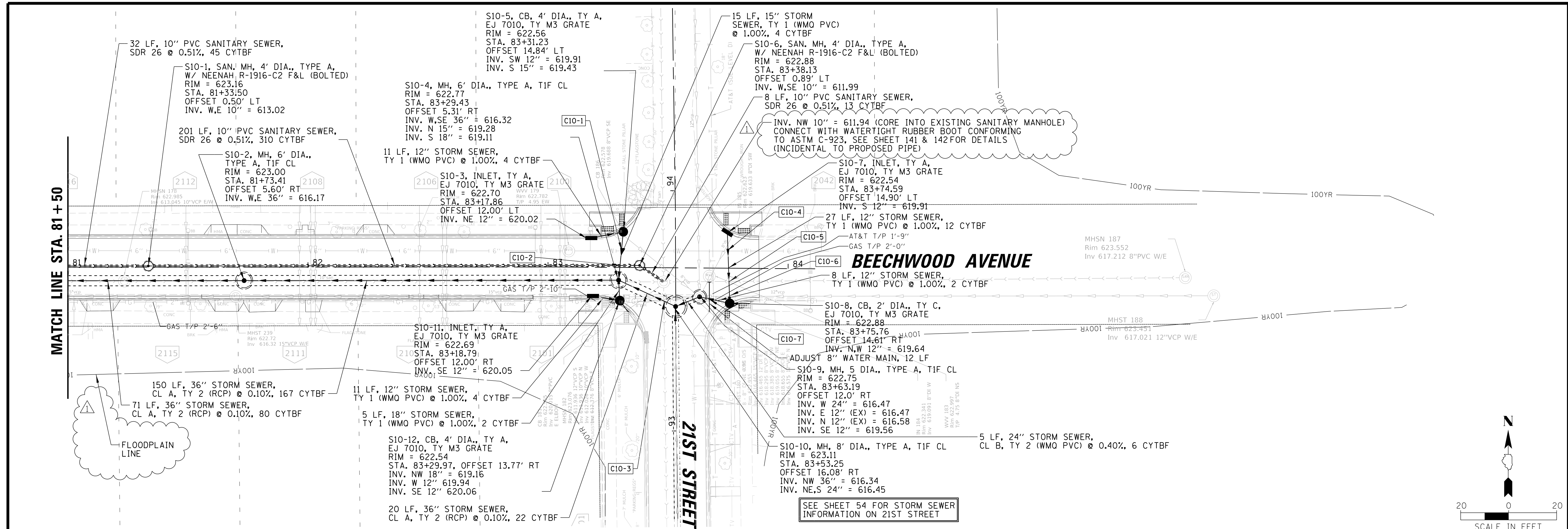
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CLIENT:  
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1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
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TITLE:  
**WSNSP CONTRACT #3  
 BEECHWOOD AVENUE  
 DRAINAGE PLAN AND PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 52 OF 207  
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**52**



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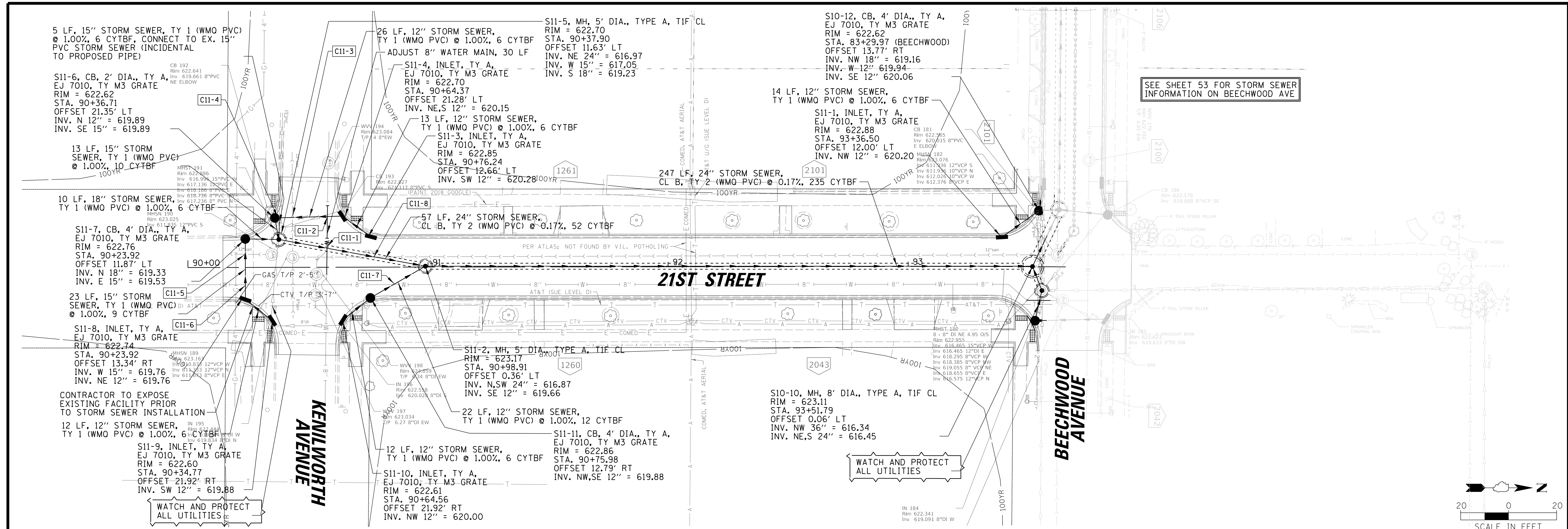
**BAXTER & WOODMAN**  
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CLIENT: **Village of Wilmette**  
**Village of Wilmette**  
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NO.	DATE	REVISION	MAK	CHKD.
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BEECHWOOD AVENUE  
DRAINAGE PLAN AND PROFILE**

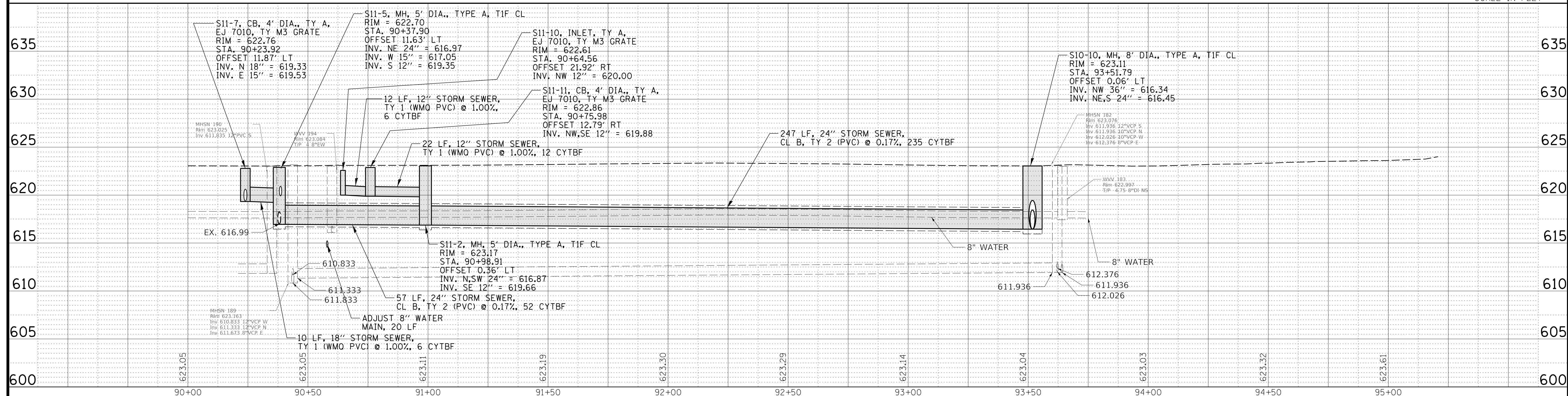
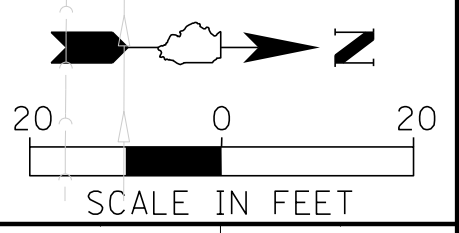
PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 53 OF 207  
 DRAWING NO. **53**



SEE SHEET 53 FOR STORM SEWER INFORMATION ON BEECHWOOD AVE

WATCH AND PROTECT ALL UTILITIES

WATCH AND PROTECT ALL UTILITIES



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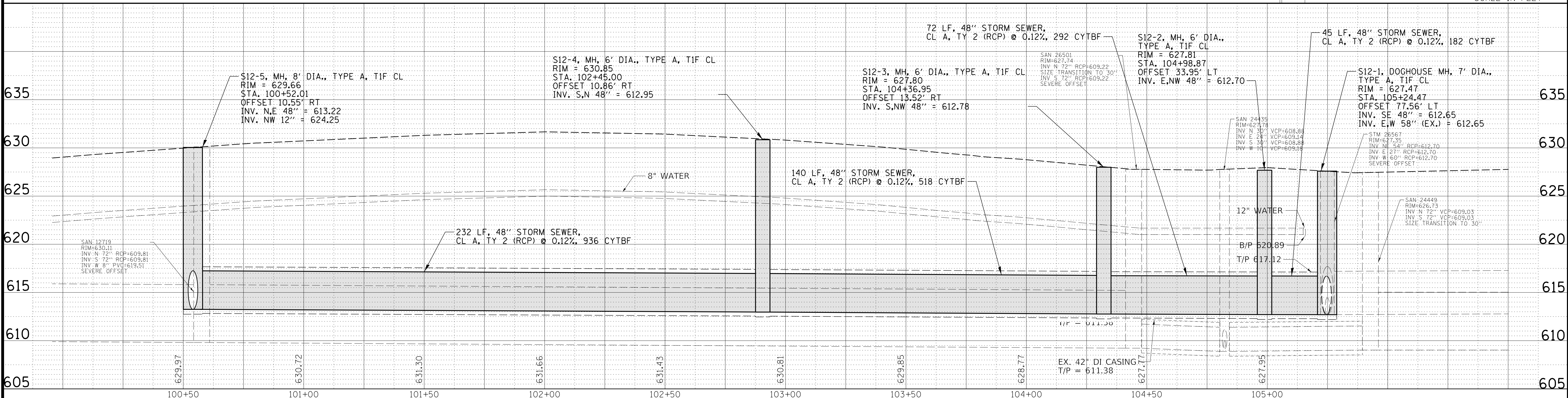
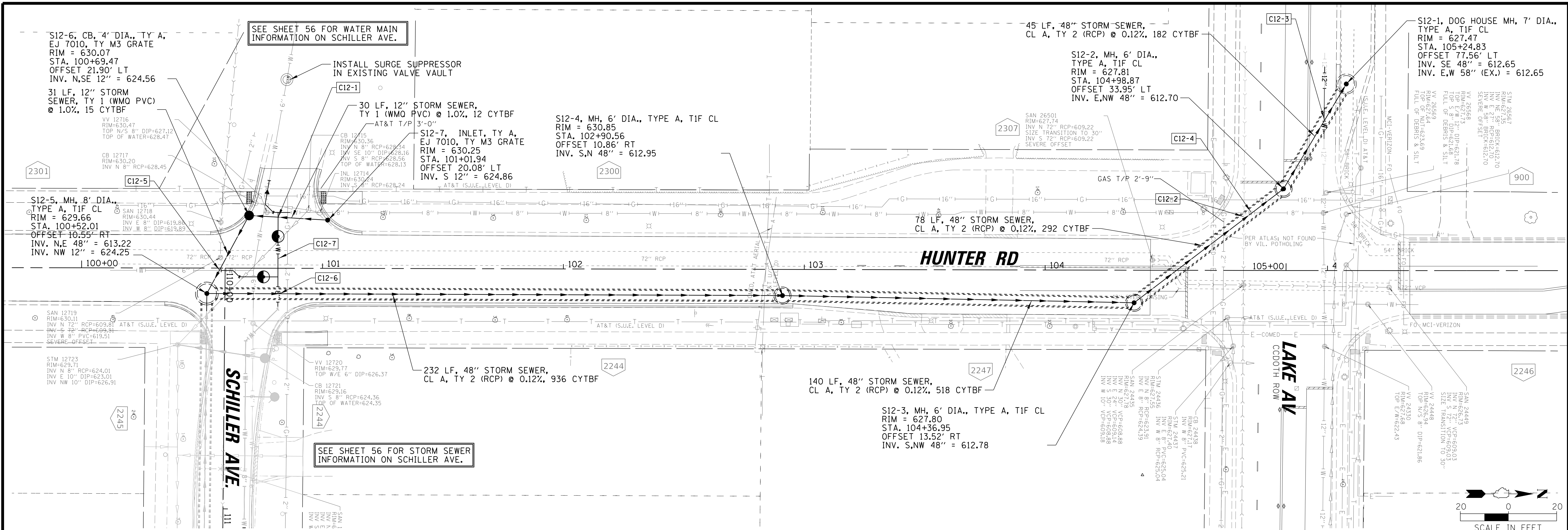


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 WILMETTE, IL 60091-0040



NO.	DATE	REVISION	CHKD.	MODEL:
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		FILE NAME		

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DWN.	MAK	<b>WSNSP CONTRACT #3</b>	DATE: 10/8/2021
CHKD.	LMF		SHEET 54 OF 207
SCALE:	20'	<b>21ST STREET</b>	DRAWING NO.
PLOT DATE:	10/8/2021		<b>DRAINAGE PLAN AND PROFILE</b>
CAD USER:	mkoonce		
MODEL:	Default		



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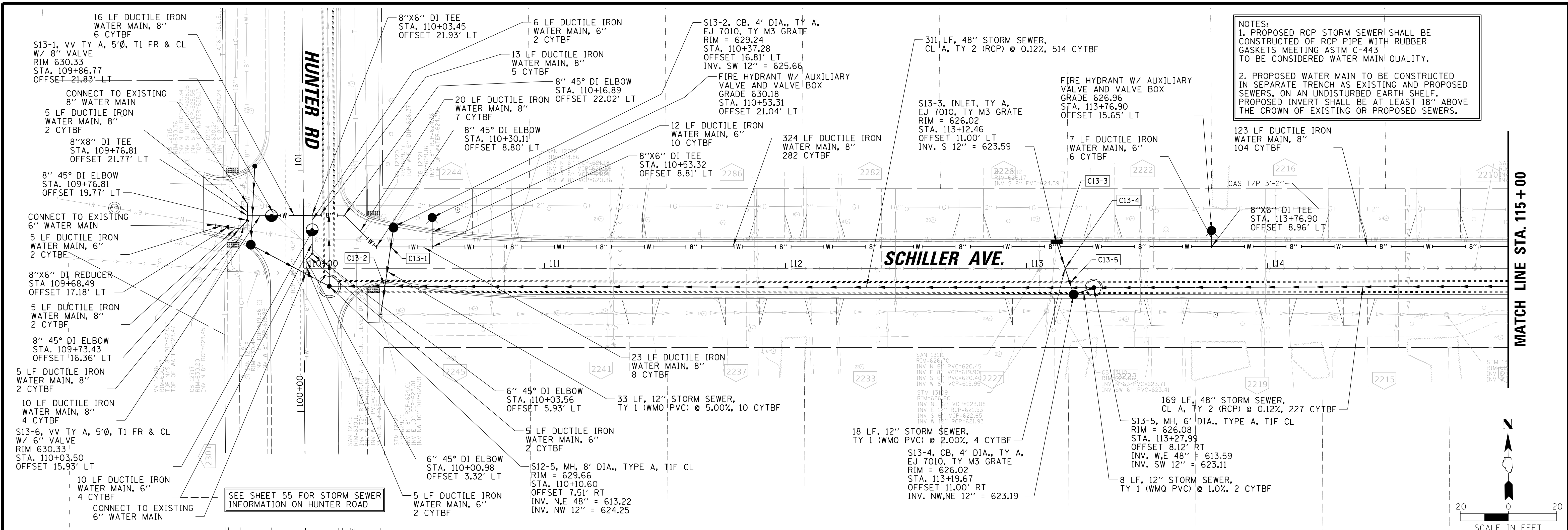
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 WILMETTE, IL 60091-0040



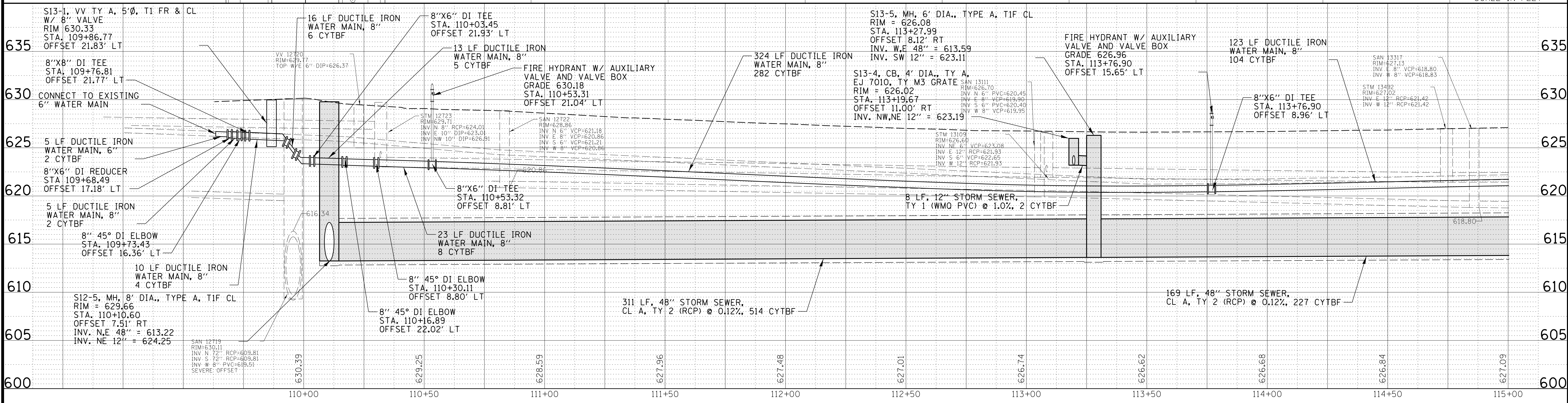
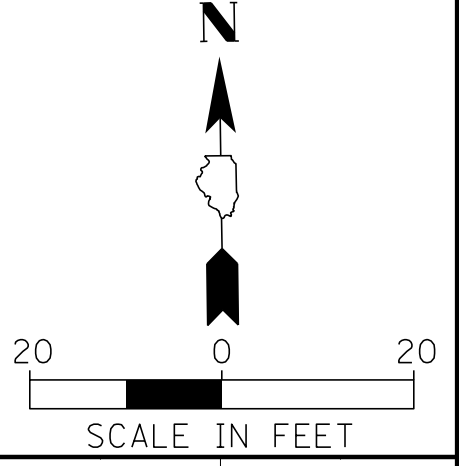
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TITLE: **WSNSP CONTRACT #3  
 HUNTER ROAD  
 DRAINAGE PLAN AND PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 55 OF 207  
 DRAWING NO. **55**



NOTES:  
 1. PROPOSED RCP STORM SEWER SHALL BE CONSTRUCTED OF RCP PIPE WITH RUBBER GASKETS MEETING ASTM C-443 TO BE CONSIDERED WATER MAIN QUALITY.  
 2. PROPOSED WATER MAIN TO BE CONSTRUCTED IN SEPARATE TRENCH AS EXISTING AND PROPOSED SEWERS, ON AN UNDISTURBED EARTH SHELVE. PROPOSED INVERT SHALL BE AT LEAST 18" ABOVE THE CROWN OF EXISTING OR PROPOSED SEWERS.



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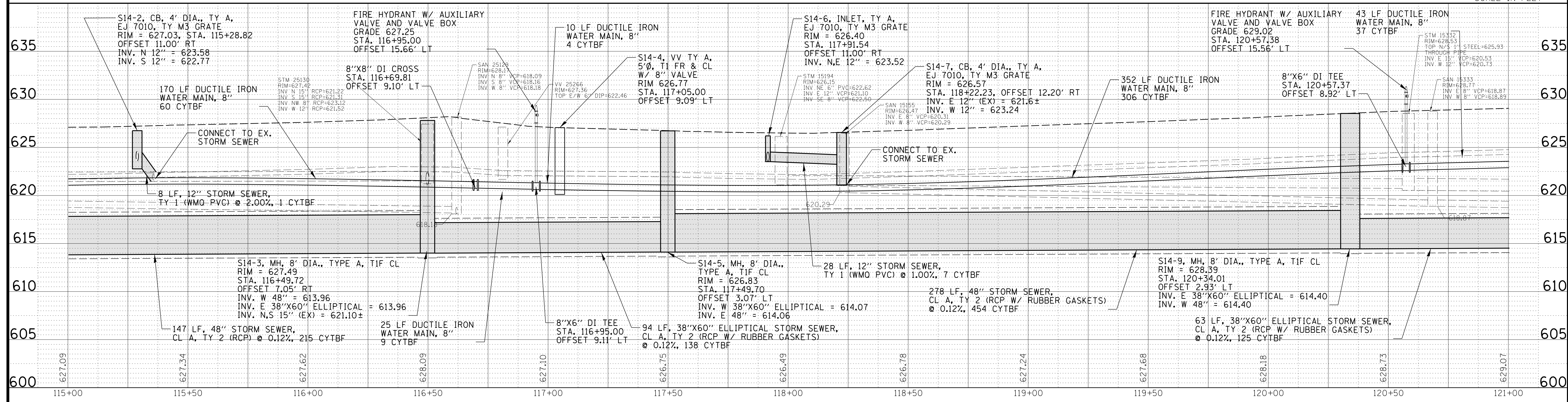
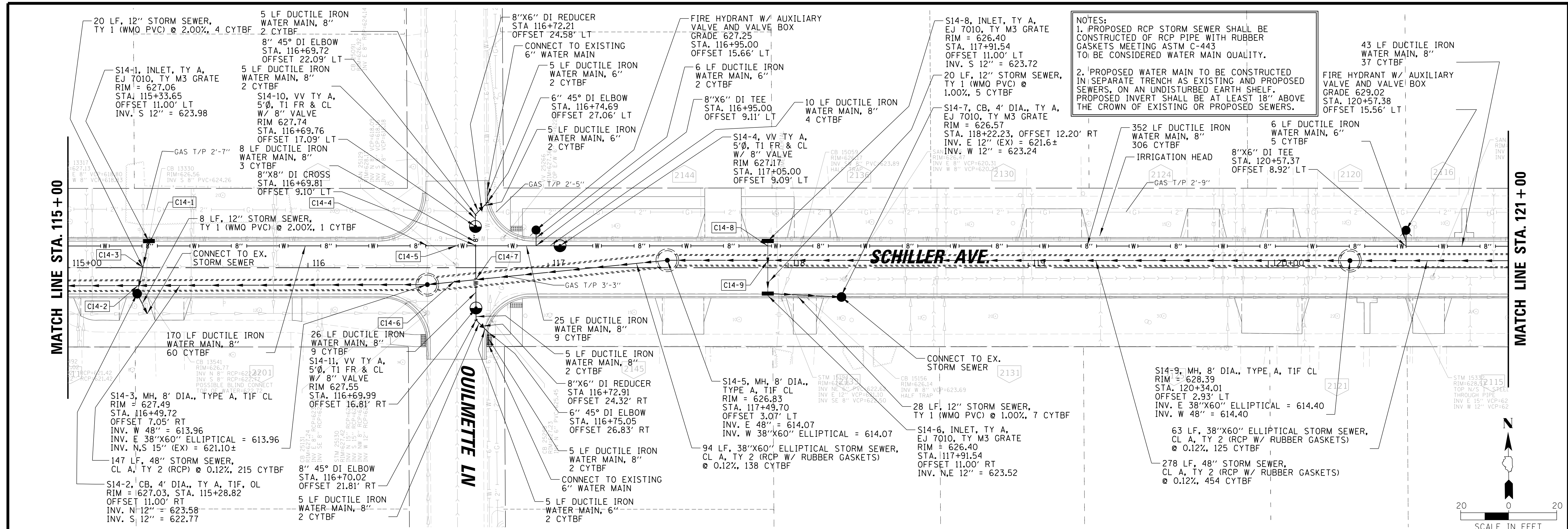
CLIENT:  
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 WILMETTE, IL 60091-0040

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		NATURE OF REVISION	CHKD.	
		FILE NAME		

TITLE:  
**WSNSP CONTRACT #3**  
**SCHILLER AVENUE**  
**DRAINAGE PLAN AND PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 56 OF 207  
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**56**





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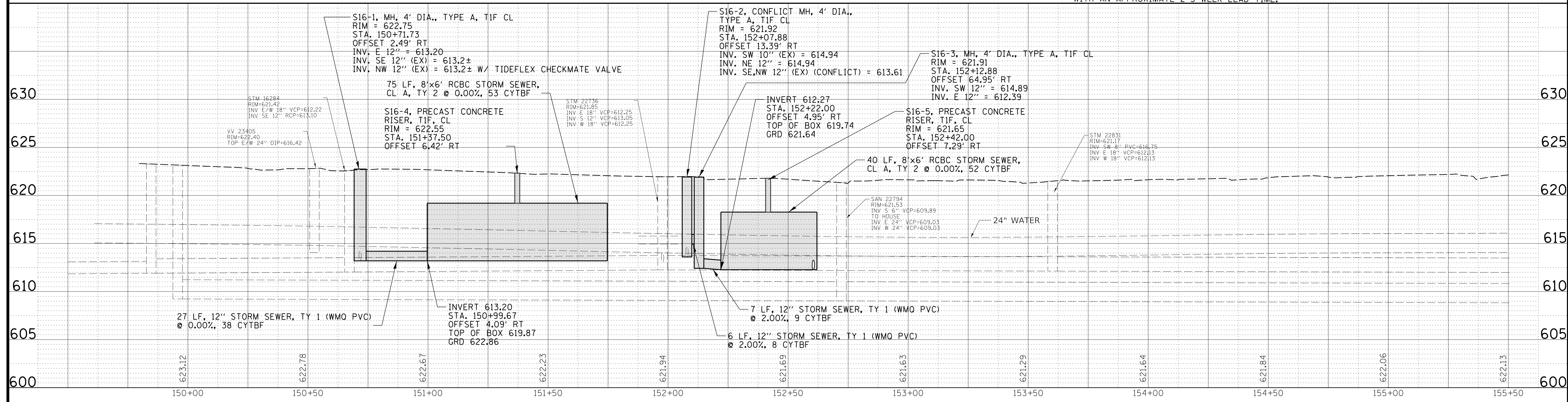
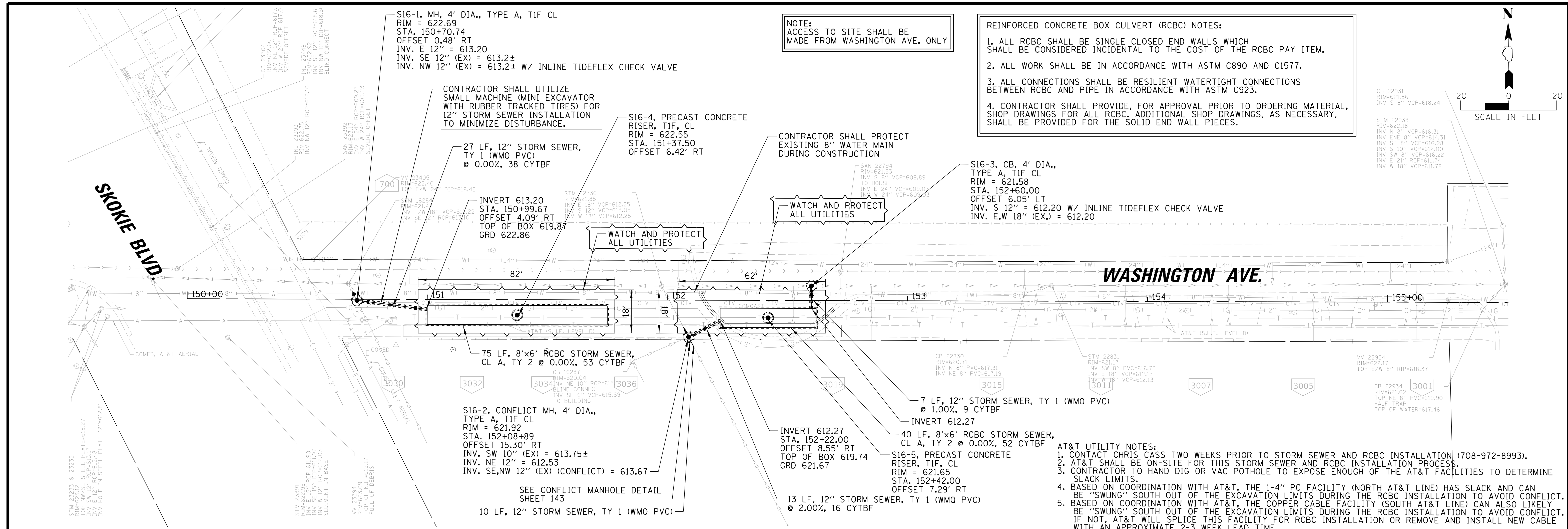
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NO.	DATE	REVISION	CHKD.
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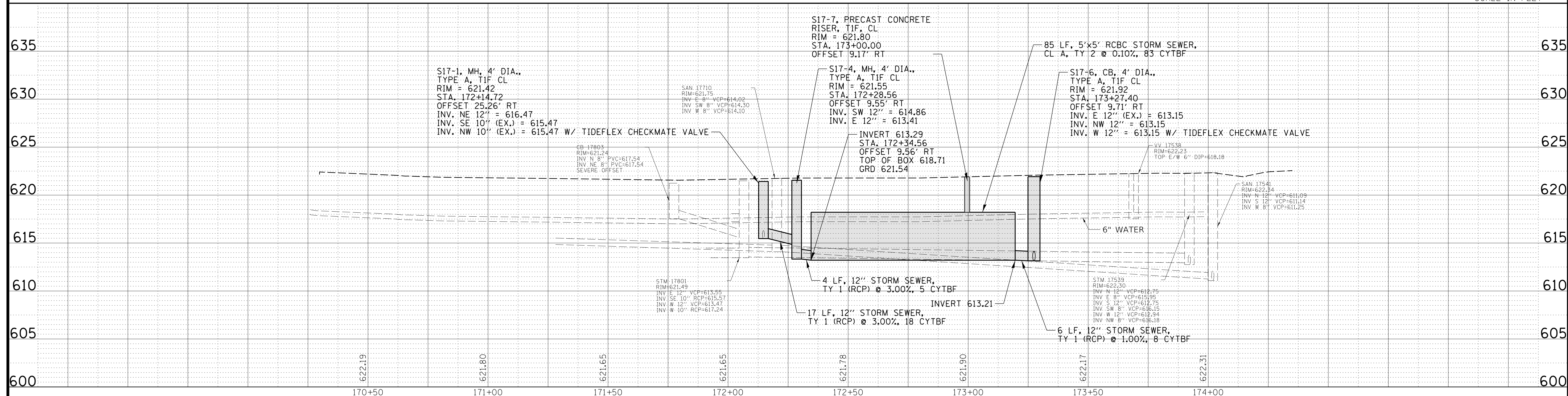
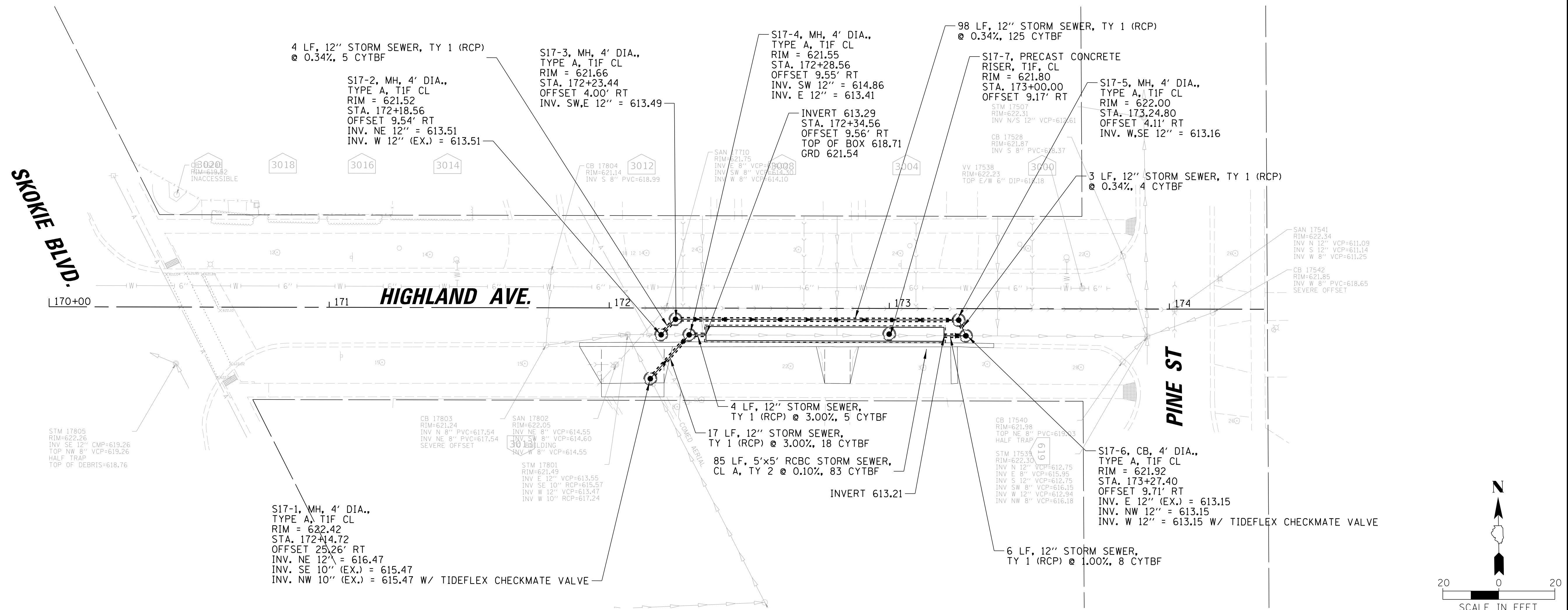
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 SCHILLER AVENUE  
 DRAINAGE PLAN AND PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 57 OF 207  
 DRAWING NO. **57**





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PLOT DATE:	10/8/2021																														
CAD USER:	mkoonce																														
MODEL:	Default																														
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NO.	DATE	REVISION	CHKD.	MODEL:
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		NATURE OF REVISION		
		FILE NAME		

DSGN.	JAL	TITLE:	PROJ. NO.
DWN.	MAK	<b>WSNSP CONTRACT #3 HIGHLAND AVENUE DRAINAGE PLAN AND PROFILE</b>	180245.0004
CHKD.	LMF		DATE: 10/8/2021
SCALE:	20'		SHEET 60 OF 207
PLOT DATE:	10/8/2021		DRAWING NO.
CAD USER:	mkoonce		<b>60</b>
MODEL:	Default		

Crossing No.	Sheet Location	PIPE 1					PIPE 2					Vertical Clearance	Comment
		Description	Material	Dia.	Top of Pipe	Bottom of Pipe	Description	Material	Dia.	Top of Pipe	Bottom of Pipe		
C1-1	Sheet 43	EX. WM	DI	8"	620.55	619.80	PROP. STM STR	PCC	2'		* 622.00	1.45'	* BOTTOM OF STRUCTURE
C1-2	Sheet 43	EX. WM	DI	36"	621.30	618.11	PROP. STORM	PVC	12"	623.45	622.39	1.09'	
C1-3	Sheet 43	EX. SAN.	RCP	21"	609.56	607.35	PROP. STORM	RCP	12"	623.48	622.14	12.58'	
C1-4	Sheet 43	EX. STORM	RCP	12"	617.24	615.90	PROP. STM STR	PCC	4'		* 618.73	1.49'	* BOTTOM OF STRUCTURE
C1-5	Sheet 43	EX. STORM	VCP	8"	620.74	619.92	PROP. STORM	PVC	12"	623.16	622.10	1.36'	
C1-6	Sheet 43	EX. WM	DI	6"	620.75	620.67	PROP. STORM	PVC	12"	623.31	622.25	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C1-7	Sheet 43	EX. WM	DI	6"	621.25	621.83	PROP. STORM	RCP	60"	618.74	612.74	3.09'	
C1-8	Sheet 43	EX. SAN.	RCP	21"	609.54	607.33	PROP. WM	DI	6"	621.83	621.25	11.71'	
C1-9	Sheet 43	EX. SAN.	RCP	21"	609.37	607.16	PROP. STORM	RCP	30"	616.18	613.02	3.65'	
C1-10	Sheet 43	EX. WM	DI	36"	621.30	618.11	PROP. STORM	RCP	30"	616.35	613.19	1.76'	
C1-11	Sheet 43	EX. WM	DI	8"	621.62	620.92	PROP. STORM	RCP	30"	616.35	613.19	4.57'	
C1-12	Sheet 43	EX. WM	DI	8"	621.62	620.92	PROP. SAN	PVC	10"	611.09	610.18	9.83'	
C1-13	Sheet 43	EX. WM	DI	36"	621.30	618.11	PROP. SAN	PVC	10"	611.06	610.15	7.05'	
C1-14	Sheet 43	EX. WM	DI	6"	620.49	619.91	PROP. STORM	PVC	12"	623.01	621.99	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C1-15	Sheet 43	EX. WM	DI	6"	621.72	621.14	PROP. STORM	RCP	60"	618.91	612.91	2.23'	
C1-16	Sheet 43	EX. WM	DI	8"	620.50	619.75	PROP. STM STR	RCP	2'		622.03	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C1-17	Sheet 43	EX. WM	DI	36"	621.30	618.11	PROP. STORM	PVC	12"	623.34	622.28	0.98'	
C1-18	Sheet 43	EX. SAN.	RCP	21"	609.13	606.92	PROP. STORM	RCP	12"	623.38	622.04	12.91'	
C1-19	Sheet 43	PROP. STM STR	RCP	2'		* 620.49	PROP. STORM	RCP	60"	618.93	612.93	1.56'	* BOTTOM OF STRUCTURE
C2-1	Sheet 44	EX. SAN.	RCP	21"	609.03	606.82	PROP. STORM	RCP	12"	622.48	621.14	12.11'	
C2-2	Sheet 44	PROP. STM STR	RCP	2'		* 620.13	PROP. STORM	RCP	60"	618.98	612.98	1.15'	* BOTTOM OF STRUCTURE
C2-3	Sheet 44	EX. WM	DI	36"	621.00	617.81	PROP. STORM	PVC	12"	622.44	621.38	0.38'	
C2-4	Sheet 44	EX. WM	DI	8"	619.94	619.19	PROP. STORM	PVC	12"	622.50	621.44	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C2-5	Sheet 44	EX. SAN.	RCP	21"	617.87	615.66	PROP. STORM	PVC	12"	622.65	621.59	3.72'	
C2-6	Sheet 44	EX. SAN.	PVC	10"	615.89	614.18	PROP. STORM	PVC	12"	622.66	621.64	5.75'	
C2-7	Sheet 44	EX. WM	DI	6"	620.28	619.70	PROP. STORM	PVC	12"	622.84	621.78	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C2-8	Sheet 44	EX. WM	DI	36"	621.36	620.61	PROP. STORM	RCP	2'x3' RCBC	615.91	613.25	4.70'	
C2-9	Sheet 44	EX. WM	DI	8"	621.36	620.61	PROP. STORM	RCP	2'x3' RCBC	615.92	613.26	4.69'	
C2-10	Sheet 44	EX. SAN.	RCP	21"	606.94	604.73	PROP. STM STR	PCC	10'x8' BOX		* 613.07	6.13'	* BOTTOM OF STRUCTURE
C3-1	Sheet 45	EX. SAN.	RCP	120"	614.63	603.72	PROP. STORM	RCP	48"	619.47	614.63	0.00'	
C3-2	Sheet 45	EX. SAN.	RCP	120"	614.63	603.72	PROP. STM STR	RCP	4'		* 619.80	5.17'	* BOTTOM OF STRUCTURE
C3-3	Sheet 45	EX. WM	DI	6"	622.70	622.12	PROP. SAN	PCV	10"	609.87	608.96	12.25'	
C3-4	Sheet 45	EX. WM	DI	6"	621.41	620.83	PROP. STORM	PVC	12"	623.97	622.91	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C3-5	Sheet 45	EX. WM	DI	6"	622.70	622.12	PROP. STORM	RCP	48"	619.47	614.63	2.65'	
C3-6	Sheet 45	EX. WM	DI	8"	621.50	620.75	PROP. STORM	PVC	12"	624.04	623.00	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C3-7	Sheet 45	EX. WM	DI	6"	621.86	621.28	PROP. SAN	PCV	10"	610.72	609.81	10.56'	
C5-1	Sheet 47	EX. STORM	RCP	15"	618.91	617.29	PROP. STM STR	RCP	2'		* 619.56	0.65'	* BOTTOM OF STRUCTURE
C6-1	Sheet 48	EX. WM	DI	8"	622.69	620.94	PROP. STORM	RCP	24"	616.53	614.03	4.41'	
C6-2	Sheet 48	EX. WM	DI	36"	620.21	618.17	PROP. STORM	RCP	24"	616.52	614.02	1.64'	
C6-3	Sheet 48	EX. SAN.	VCP	21"	607.23	605.22	PROP. STORM	RCP	24"	616.51	614.01	6.78'	
C6-4	Sheet 48	EX. WM	DI	8"	621.45	620.70	PROP. STORM	DI	48"	614.06	609.94	6.64'	
C6-5	Sheet 48	EX. WM	DI	36"	621.28	619.24	PROP. STORM	DI	48"	614.06	609.94	5.18'	
C6-6	Sheet 48	EX. SAN.	VCP	21"	607.27	605.26	PROP. STORM	DI	48"	614.06	609.94	2.67'	
C6-7	Sheet 48	EX. WM	DI	8"	618.86	618.11	PROP. STM STR	RCP	2'		* 620.36	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C6-8	Sheet 48	EX. WM	DI	36"	621.28	619.24	PROP. STORM	PVC	12"	622.92	621.86	0.58'	
C6-9	Sheet 48	EX. SAN.	VCP	21"	607.31	605.30	PROP. STORM	PVC	12"	622.79	621.73	14.42'	
C7-1	Sheet 49	EX. WM	DI	8"	618.96	618.21	PROP. STM STR	RCP	2'		* 620.46	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C7-2	Sheet 49	EX. WM	DI	36"	621.45	618.26	PROP. STORM	PVC	12"	623.02	621.96	0.51'	
C7-3	Sheet 49	EX. SAN.	VCP	21"	608.05	606.04	PROP. STORM	PVC	12"	622.87	621.81	13.76'	
C7-4	Sheet 49	PROP. STM STR	RCP	2'		* 621.42	PROP. STORM	RCP	6'x4' RCBC	620.32	613.48	1.10'	* BOTTOM OF STRUCTURE

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500



CLIENT:



**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
		NATURE OF REVISION	CHKD.	
FILE NAME	N:\wilmette\180245.00004\Civil\DRP_C3_180245_19.sht			

DSGN.	JAL	TITLE:
DWN.	MAK	
CHKD.	LMF	
SCALE:	20'	
PLOT DATE:	10/8/2021	<b>WSNSP CONTRACT #3</b> <b>UTILITY CROSSING TABLES</b> <b>DRAINAGE PLAN AND PROFILE</b>
CAD USER:	mkoonce	
MODEL:	Default	

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 61 OF 207  
 DRAWING NO.  
**61**

Crossing No.	Sheet Location	PIPE 1					PIPE 2					Vertical Clearance	Comment
		Description	Material	Dia.	Top of Pipe	Bottom of Pipe	Description	Material	Dia.	Top of Pipe	Bottom of Pipe		
C8-1	Sheet 50	PROP. STORM	PVC	8"	621.07	620.35	PROP. SAN	PVC	10"	610.78	609.89	9.57'	
C8-2	Sheet 50	PROP. SAN	PVC	10"	612.83	611.94	PROP. STORM	PVC	12"	617.53	616.47	3.64'	
C8-3	Sheet 50	EX. WM	DI	6"	619.90	619.32	PROP. STORM	PVC	12"	617.60	616.54	1.72'	
C8-4	Sheet 50	EX. STORM	VCP	18"	617.06	615.18	PROP. STM STR	PCC	2'		* 620.53	3.47'	* BOTTOM OF STRUCTURE
C9-1	Sheet 51	PROP. SAN	PVC	10"	614.10	613.21	PROP. STORM	PVC	18"	620.25	618.70	4.60'	
C9-2	Sheet 51	EX. WM	DI	6"	617.27	616.69	PROP. STORM	PVC	18"	620.32	618.77	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C9-3	Sheet 51	EX. STORM	VCP	15"	617.72	615.84	PROP. STM STR	PCC	4'		* 618.34	0.62'	* BOTTOM OF STRUCTURE
C9-4	Sheet 51	EX. STORM	VCP	15"	617.73	615.85	PROP. STM STR	PCC	2'		* 619.16	1.43'	* BOTTOM OF STRUCTURE
C9-5	Sheet 51	EX. STORM	VCP	15"	617.75	615.87	PROP. STM STR	PCC	2'		* 619.21	1.46'	* BOTTOM OF STRUCTURE
C10-1	Sheet 52	EX. WM	DI	6"	617.83	617.25	PROP. STORM	PVC	15"	621.04	619.76	1.93'	
C10-2	Sheet 52	PROP. SAN	PVC	10"	612.88	611.99	PROP. STORM	PVC	12"	620.76	619.70	6.82'	
C10-3	Sheet 52	EX. SAN	VCP	12"	613.04	611.81	PROP. STORM	RCP	30"	619.66	616.00	2.96'	
C10-4	Sheet 52	EX. WM	DI	6"	617.83	617.25	PROP. STORM	PVC	12"	620.88	619.82	1.99'	
C10-5	Sheet 52	EX. SAN	VCP	8"	613.65	612.82	PROP. STORM	PVC	12"	620.75	619.69	6.04'	
C10-6	Sheet 52	EX. STORM	VCP	12"	617.60	616.37	PROP. STORM	PVC	12"	620.69	619.63	2.03'	
C10-7	Sheet 52	EX. WM	DI	8"	618.03	617.28	PROP. STORM	PVC	12"	620.59	619.53	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C11-1	Sheet 53	PROP. WM	DI	8"	615.16	614.41	PROP. STORM	RCP	24"	619.16	616.66	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C11-2	Sheet 53	PROP. WM	DI	8"	617.62	616.87	PROP. STORM	PVC	12"	621.11	620.05	2.43'	
C11-3	Sheet 53	EX. SAN	VCP	12"	611.92	610.69	PROP. STORM	PVC	12"	621.03	619.97	8.05'	
C11-4	Sheet 53	EX. STORM	PVC	15"	618.21	616.93	PROP. STM STR	PCC	4'		* 619.39	1.18'	* BOTTOM OF STRUCTURE
C11-5	Sheet 53	EX. SAN	PVC	12"	612.85	611.79	PROP. STORM	PVC	12"	620.60	619.54	6.69'	
C11-6	Sheet 53	EX. WM	DI	8"	616.76	616.01	PROP. STORM	PVC	12"	620.72	619.66	2.90'	
C11-7	Sheet 53	EX. WM	DI	8"	616.76	616.01	PROP. STORM	PVC	12"	620.79	619.73	2.97'	
C11-8	Sheet 53	EX. SAN	VCP	12"	612.50	611.27	PROP. STORM	PVC	24"	618.71	616.64	4.14'	
C12-1	Sheet 54	EX. WM	DI	8"	626.62	625.87	PROP. STORM	PVC	12"	629.18	628.12	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C12-2	Sheet 54	EX. SAN	VCP	10"	610.11	609.08	PROP. STORM	RCP	48"	617.19	612.35	2.24'	
C12-3	Sheet 54	EX. WM	DI	12"	621.78	620.68	PROP. STORM	RCP	48"	617.75	612.31	2.93'	
C12-4	Sheet 54	EX. WM	DI	6"	626.33	625.75	PROP. STORM	PVC	12"	628.89	627.83	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C12-5	Sheet 54	EX. WM	DI	6"	626.33	625.75	PROP. STORM	PVC	12"	628.79	627.73	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C12-6	Sheet 54	EX. SAN	RCP	72"	616.39	609.23	PROP. STORM	PVC	12"	628.87	627.81	11.42'	
C12-7	Sheet 54	EX. WM	DI	6"	626.37	625.79	PROP. STORM	RCP	48"	617.64	612.88	8.15'	
C13-1	Sheet 55	PROP. WM	DI	8"	624.01	623.26	PROP. STORM	PVC	12"	626.37	625.31	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C13-2	Sheet 55	PROP. STORM	PVC	12"	626.68	625.62	PROP. STORM	RCP	48"	617.68	612.84	7.94'	
C13-3	Sheet 55	PROP. WM	DI	8"	620.76	620.01	PROP. STORM	PVC	12"	624.59	623.53	2.77'	
C13-4	Sheet 55	EX. SAN	VCP	8"	620.56	619.73	PROP. STORM	PVC	12"	624.39	623.33	2.77'	
C13-5	Sheet 55	PROP. STORM	PVC	12"	624.26	623.20	PROP. STORM	RCP	48"	618.02	613.18	5.18'	
C14-1	Sheet 56	PROP. WM	DI	8"	621.19	620.44	PROP. STORM	PVC	12"	624.97	623.91	2.72'	
C14-2	Sheet 56	PROP. STORM	PVC	12"	624.68	623.62	PROP. STORM	RCP	48"	618.27	613.43	5.35'	
C14-3	Sheet 56	EX. SAN	VCP	8"	620.17	619.34	PROP. STORM	PVC	12"	624.80	623.74	3.57'	
C14-4	Sheet 56	EX. STORM	RCP	15"	622.29	620.66	PROP. WM	DI	8"	619.16	618.41	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE
C14-5	Sheet 56	EX. SAN	VCP	8"	618.82	617.99	PROP. WM	DI	8"	622.58	621.83	3.01'	
C14-6	Sheet 56	EX. SAN	VCP	8"	619.00	618.17	PROP. STORM	RCP	38"x60"	617.16	613.54	1.01'	
C14-7	Sheet 56	PROP. WM	DI	8"	622.07	621.32	PROP. STORM	RCP	38"x60"	617.17	613.56	4.15'	
C14-8	Sheet 56	PROP. WM	DI	8"	620.85	620.10	PROP. STORM	PVC	12"	624.72	623.66	2.81'	
C14-9	Sheet 56	PROP. STORM	PVC	12"	624.65	623.59	PROP. STORM	RCP	48"	618.56	613.72	5.03'	
C15-1	Sheet 57	PROP. WM	DI	8"	624.70	623.95	PROP. STORM	PVC	12"	628.62	627.56	2.86'	
C15-2	Sheet 57	EX. STORM	RCP	30"	622.49	619.49	PROP. WM	DI	8"	624.74	623.99	1.50'	PROVIDE MIN. 18" VERTICAL CLEARANCE



NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS		
		NATURE OF REVISION		
FILE NAME	N:\wilmette\180245.00004\Civil\DRP_C3_180245_19.sht			

DSGN.	JAL	TITLE:
DWN.	MAK	
CHKD.	LMF	WSNSP CONTRACT #3 UTILITY CROSSING TABLES DRAINAGE PLAN AND PROFILE
SCALE:	20'	
PLOT DATE:	10/8/2021	PROJ. NO. 180245.0004 DATE: 10/8/2021 SHEET 62 OF 207 DRAWING NO.
CAD USER:	mkoonce	
MODEL:	Default	<b>62</b>

**GENERAL NOTES:**

- THE VILLAGE OF WILMETTE SHALL BE NOTIFIED IN WRITING AT LEAST (3) FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - UTILITIES EXIST IN THE AREA WHERE WORK IS PROPOSED. ACTUAL DEPTH OF UTILITIES ARE UNKNOWN. SHOULD ANY GIVEN UTILITY INTERFERE WITH THE PROPOSED WORK, PIPE ROUTING, ETC., THE CONTRACTOR SHALL, AT NO EXTRA COST TO THE OWNER, RESOLVE ANY AND ALL INTERFERENCE PROBLEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK AS REQUIRED.
  - THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEERS SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123
  - 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, THE CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE OWNER PRIOR TO PERFORMING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK AS REQUIRED.
  - ALL ELEVATIONS SHOWN ON DRAWINGS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
    - "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", AS PREPARED BY IDOT, LATEST EDITION.
    - "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.
    - MUNICIPAL CODE.
    - NATIONAL ELECTRIC CODE.
- WHERE CONTRADICTIONS OCCUR BETWEEN THE ABOVE LISTED SPECIFICATION, CODES AND/OR CONTRACT DOCUMENTS, THE MORE STRINGENT SHALL APPLY
- THE CONTRACT DOCUMENTS ARE NOT INTENDED TO SHOW EVERY DETAIL OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DOCUMENTS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DOCUMENTS AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DOCUMENTS BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF/HERSELF OF 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.
  - APPROXIMATE 100 YEAR FLOOD ELEVATION, IF APPLICABLE, IN THE AREA OF CONCERN IS SHOWN ON THE SITE PLANS.
  - IT SHALL BE NECESSARY TO PERFORM WORK ADJACENT TO EXISTING UTILITIES. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR EXISTING UTILITIES IN CONFORMANCE WITH THE AFFECTED UTILITY COMPANIES REQUIREMENTS AS MAY BE REQUIRED TO PERFORM THE WORK OF THIS CONTRACT.
  - THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION AT NO ADDITIONAL COST TO THE OWNER. THE COST ASSOCIATED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.
  - ORIENTATION OF PIPING, CONDUITS, EQUIPMENT, ETC. MAY VARY. CONTRACTOR TO COORDINATE SAME WITH THE OWNER.
  - ANY AND ALL DEWATERING REQUIRED TO KEEP UTILITY EXCAVATIONS DRY AS WELL AS BRACING AND SHORING EXCAVATED WALLS DURING UTILITY OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COMPLIANCE WITH THE ABOVE WILL BE INCIDENTAL TO THE UTILITY INSTALLATION.
  - SOIL EROSION PROTECTION SHALL BE IN ACCORDANCE WITH IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. ALL DISTURBED LAWN AREAS SHALL BE FINE GRADED, TOP-SOIL RESTORED (MIN. 4 INCHES), AND SOD APPLIED UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND TECHNIQUES OF CONSTRUCTION. OWNER'S REPRESENTATIVE/ENGINEER'S REVIEW OF SAME DOES NOT RELIEVE CONTRACTOR OF THIS RESPONSIBILITY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY AND JOB SITE SAFETY.
  - LIMITS OF CONSTRUCTION SHALL BE SUBJECT TO OWNER'S APPROVAL AND SHALL NOT IMPACT EXISTING ROADWAY PAVEMENT EXCEPT WHERE IMPROVEMENTS ARE SHOWN BY DRAWINGS. LIMITS OF CONSTRUCTION (OTHER THAN ACROSS ROADWAY PAVEMENT) SHALL BE FENCED OFF WITH TEMPORARY CONSTRUCTION FENCING, SUBJECT TO THE OWNER'S APPROVAL. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
  - ANY AND ALL BYPASS PUMPING AS MAY BE REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.

**RECORD DRAWINGS & UTILITY NOTES:**

- CERTAIN INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN OBTAINED FROM DRAWINGS OF RECORD. CONTRACTOR SHALL VERIFY SUCH INFORMATION PRIOR TO ACTUAL START OF WORK. WHERE DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE. FAILURE BY THE CONTRACTOR TO IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF SUCH DISCREPANCIES SHALL RESULT IN THE CONTRACTOR BEARING THE FULL BURDEN OF ALL RISKS/COSTS ATTRIBUTED TO THE DISCOVERED DISCREPANCY.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAYS ARE SHOWN ON THE DRAWINGS 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.
- THE EXISTING BURIED UTILITY LINES, PUBLIC AND PRIVATE, ARE SHOWN ON THE DRAWINGS ACCORDING TO INFORMATION AVAILABLE FROM RECORDS. THE LOCATION AND DEPTH OF EXISTING BURIED UTILITY LINES SHOWN ON THE DRAWINGS IS THEREFORE APPROXIMATE AND MAY VARY FROM FIELD CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION AND DEPTH OF BURIED UTILITY LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES TO MARK THE LOCATION OF BURIED UTILITIES IN THE FIELD BEFORE BEGINNING EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES AND SHALL REPAIR ANY UTILITY LINES HE/SHE DAMAGES AT HIS/HER OWN EXPENSE.
- BEFORE INSTALLING ANY BURIED PIPE, THE CONTRACTOR SHALL CAREFULLY UNCOVER ALL EXISTING BURIED UTILITY LINES WHICH CROSS NEW CONSTRUCTION, SO HE/SHE CAN DETERMINE THEIR EXACT LOCATION AND DEPTH. IF EXISTING BURIED UTILITY LINES ARE ENCOUNTERED THAT CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE SO THAT THE CONFLICT MAY BE RESOLVED.

**EXCAVATION AND BACKFILL NOTES:**

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO READ AND UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE.
- THE CONTRACTOR SHALL EXAMINE THE CONTRACT DRAWINGS THOROUGHLY PRIOR TO BEGINNING ANY EXCAVATION AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT ONCE OF ANY DISCREPANCIES.
- ALL WORK AREAS SHALL BE PROPERLY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION AND TRAFFIC.
- THE EXCAVATION FOR STRUCTURE AND/OR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING STRUCTURE/PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY EXCAVATIONS/TRENCHES SHALL BE PROVIDED BY THE CONTRACTOR AND THE COST OF SUCH SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS TO WHICH THEY PERTAIN.
- DETAILED DRAWINGS FOR ANY SHEETING AND BRACING SHALL BE PROVIDED FOR REVIEW TO THE OWNER'S REPRESENTATIVE PRIOR TO THE IMPLEMENTATION OF THE METHOD. A TRENCH BOX SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES, AND BE UTILIZED IN ACCORDANCE WITH OSHA STANDARDS.
- SUITABLE EXCAVATED MATERIALS SUBJECT TO THE REVIEW OF THE OWNER'S REPRESENTATIVE MAY BE USED TO BACKFILL THE EXCAVATED AREAS OF THE SITE UNLESS SHOWN OTHERWISE.
- NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN INSPECTED BY THE VILLAGE, OWNER OR OWNER'S REPRESENTATIVE.
- TRENCH BACKFILL SHALL BE PROVIDED FOR THE FULL DEPTH ABOVE PIPELINES UNDER PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS. THE TRENCH BACKFILL SHALL CONSIST OF A GRANULAR MATERIAL MEETING IDOT CRUSHED STONE CA-6 GRADATION SPECIFICATIONS. THE TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS AND SHALL EXTEND A MINIMUM OF TWO FEET ON EITHER SIDE OF THE PIPE CENTERLINE, OR AS OTHERWISE SHOWN OR SPECIFIED HEREIN.
- BACKFILL ANY EXCAVATIONS WITH COMPACTED GRANULAR MATERIAL EQUAL TO IDOT CA-6. BACKFILL AND COMPACT IN LIFTS OF NO GREATER THAN 6 INCHES TO 8 INCHES TO ACHIEVE 98% DENSITY USING MAXIMUM STANDARD PROCTOR DRY DENSITY PER ASTM D698 UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL REMOVE ALL EXCESS UTILITY SPOIL. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL REMOVAL OR EXCAVATION ITEMS BEING DISPOSED OF AT AN UNCONTAMINATED SOIL FILL OPERATION OR CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) FILL SITE SHALL MEET THE REQUIREMENTS OF PUBLIC ACT 96-1416. ALL COSTS ASSOCIATED WITH MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE COST FOR THE ASSOCIATED REMOVAL OR EXCAVATION ITEMS IN THE CONTRACT. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO ALL REQUIRED TESTING, LAB ANALYSIS, CERTIFICATION BY A LICENSED PROFESSIONAL ENGINEER, AND STATE OR LOCAL TIPPING FEES.
- NO EXCAVATIONS SHALL BE LEFT OPEN OVERNIGHT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COVER OPEN EXCAVATIONS WITH STEEL SHEET PLATES UNLESS OTHERWISE DIRECTED. THE COST OF THIS PROCEDURE SHALL BE INCIDENTAL TO THE WORK IN WHICH IT PERTAINS.

**SUBSURFACE OPERATION PLAN:**

- BEFORE COMMENCING ACTIVITY AT THE SITE, THE CONTRACTOR SHALL PREPARE AN "OPERATION PLAN" DRAWING SHOWING THE SEQUENCE OF OPERATION AND TIMING THAT IS PROPOSED FOR THE SUBSURFACE WORK. THIS PLAN DRAWING SHALL BE EXCLUSIVE OF ALL OTHER PLANS AND SCHEDULES REQUIRED UNDER THE CONTRACT. THE PLAN SHALL SHOW IN PLAN AND PROFILE SUPPLEMENTED BY SKETCHES, TEXT, AND BAR DIAGRAMS THE EXTENT AND SEQUENCE OF WORK REQUIRED FOR THE SUBSURFACE CONSTRUCTION. THE PLAN SHALL SHOW ALL EXCAVATION, SHEETING, PROTECTION, DEWATERING PROCEDURES, UTILITIES SUPPORT, DRAINS AND ALL OTHER FEATURES REQUIRED TO PERFORM THE SUBSURFACE OPERATION. THE PLAN SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW. INSOFAR AS POSSIBLE ALL INFORMATION SHALL BE SHOWN ON THE PLAN FOR CONVENIENCE OF INTERPRETATION UNDER FIELD CONDITIONS. THE PLAN SHALL BE SEALED BY AN ILLINOIS REGISTERED STRUCTURAL ENGINEER.
- ALL SHEETING/SHORING AND EARTH RETENTION/PROTECTION OF THE EXCAVATIONS, AROUND THE PROJECT WORK SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

**FINAL ACCEPTANCE & INSPECTION NOTES:**

- UPON COMPLETION OF ALL SPECIFIED WORK AND THE INSTALLATION OF EQUIPMENT, THE CONTRACTOR SHALL PERFORM FINAL TESTS OF THE EQUIPMENT TO VERIFY THAT THE INSTALLATION PERFORMS SATISFACTORILY. ACCEPTANCE TESTS CONDUCTED ON THE COMPLETED INSTALLATION WILL BE WITNESSED AND SUBJECT TO THE APPROVAL OF THE OWNER. NO SEPARATE PAYMENT WILL BE MADE FOR FINAL TESTING. THE COST OF FINAL TEST SHALL BE CONSIDERED INCIDENTAL TO THE WORK. AS A MINIMUM TESTING SHALL INCLUDE BUT NOT BE LIMITED TO OPERATIONAL TESTING OF ALL DEVICES AND EQUIPMENT. EQUIPMENT SUPPLIERS SHALL PROVIDE FACTORY TRAINED FIELD PERSONNEL FOR FINAL CHECK-OUT, START-UP, AND TESTING. PRIOR TO SUCH FINAL TESTING ALL PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH INDUSTRY STANDARDS.
- WHEN ALL THE WORK AS SHOWN ON THE DRAWINGS AND INCLUDED IN THE SPECIFICATIONS HAS BEEN COMPLETED AND THE EQUIPMENT HAS BEEN INSTALLED, TESTED, PLACED INTO OPERATION, AND SUBSEQUENTLY HAS SATISFACTORILY OPERATED FOR 15 DAYS, A THOROUGH INSPECTION OF THE EQUIPMENT WILL BE MADE BY THE OWNER IN THE COMPANY OF THE CONTRACTOR, AND IF THE WORK IS FOUND TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS, THE WORK WILL BE FORMALLY ACCEPTED AND THE CONTRACTOR SO NOTIFIED AS TO THE FINAL ACCEPTANCE OF THE WORK BY THE OWNER. NOTIFICATION OF FINAL ACCEPTANCE WILL BE IN WRITING.
- SHOULD ANY WORK BE FOUND TO BE INADEQUATE, FAULTY, OR OTHERWISE NOT IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT SUCH WORK AT HIS/ HER OWN EXPENSE, PRIOR TO FINAL ACCEPTANCE.
- THE PERIOD OF EQUIPMENT AND WORKMANSHIP GUARANTEES SHALL COMMENCE IMMEDIATELY AFTER FINAL ACCEPTANCE OF THE WORK. UPON BEING NOTIFIED OF THE FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL SUPPLY TO THE OWNER, A CERTIFICATE OF GUARANTEE WHICH SHALL GUARANTEE ALL EQUIPMENT AND WORKMANSHIP UNDER THE CONTRACTOR'S SCOPE OF WORK FOR A PERIOD OF ONE YEAR.
- UPON FINAL ACCEPTANCE THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS INCLUDING ALL ADDITIONS, DELETIONS AND FIELD CHANGES. CONTRACTOR SHALL SUBMIT PAPER COPIES AND CAD FILES OF RECORD DRAWINGS IN ACCORDANCE.
- CONTRACTOR SHALL TEST EACH PUMP IN PLACE TO VERIFY PERFORMANCE WITH SPECIFIED CAPACITY. FLOW METER SHALL BE USED TO MEASURE GALLONS PER MINUTE PUMPED.

**SHOP DRAWING REVIEW NOTES**

- THE CONTRACTOR SHALL SUBMIT FOR REVIEW DIMENSIONED OUTLINE SHOP DRAWINGS SHOWING THE GENERAL ARRANGEMENT OF THE EQUIPMENT TO BE FURNISHED, AND ITEMS TO BE INSTALLED.
- BEFORE PROCEEDING WITH MANUFACTURE OF THE EQUIPMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW GENERAL ASSEMBLY SHOP DRAWINGS, SUBASSEMBLY SHOP DRAWINGS, DETAIL SHOP DRAWINGS, CALCULATIONS, DESIGN DATA, CATALOG CUTS AND SIMILAR ENGINEERING DOCUMENTS REQUIRED TO DEMONSTRATE FULLY THAT ALL PARTS WILL CONFORM TO THE PROVISIONS AND INTENT OF THE DRAWINGS AND SPECIFICATIONS AND TO THE REQUIREMENTS OF THEIR INSTALLATION, OPERATION, AND MAINTENANCE. THESE SHOP DRAWINGS SHALL SHOW ALL NECESSARY DIMENSIONS AND FABRICATION DETAILS, INCLUDING THE DESIGN OF WELDED AND BOLTED JOINT CONNECTIONS, TOLERANCES ON FITS AND CLEARANCES, AND ALL FIELD JOINTS AND SUBASSEMBLIES IN WHICH THE CONTRACTOR PROPOSES TO SHIP THE EQUIPMENT. DESIGN CRITERIA, CALCULATIONS, AND DETAILED SPECIFICATIONS SHALL BE SUBMITTED FOR THE DESIGN OF ALL MAJOR COMPONENTS AND FOR OTHER FEATURES OR DETAILS WHEN REQUESTED BY THE OWNER.
- ALL SUBMITTALS BY THE CONTRACTOR SHALL BE CERTIFIED BY THE RESPECTIVE EQUIPMENT MANUFACTURER.
- THE CONTRACTOR SHALL SUBMIT COMPLETE FULL-LINE WIRING DIAGRAMS COVERING ALL EQUIPMENT FURNISHED BY HIM/HER. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF SWITCH DEVELOPMENTS FOR ALL INSTRUMENT AND CONTROL SWITCHES AND INTERNAL CONNECTION DIAGRAMS FOR ALL INSTRUMENTS, RELAYS, REGULATORS, ETC.
- SHOP DRAWINGS SHALL INCLUDE ELECTRICAL DEVICES, ACCESSORIES AND WIRING FURNISHED AS COMPONENT PARTS OF MECHANICAL EQUIPMENT AND SHALL SHOW ARRANGEMENT AND DIMENSIONS.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL WORK AREAS, INDICATING SOLUTIONS TO SPACE PROBLEMS AND COORDINATION WITH REQUIREMENTS OF EXISTING CONDITIONS.
- PRIOR TO FINAL INSPECTION PROVIDE FOUR DUPLICATE LOOSE LEAF THREE RING BOUND COPIES OF OPERATIONS AND MAINTENANCE MANUALS IN DURABLE COVERS AND ONE DIGITAL COPY ON USB FLASHDRIVE OF THE FOLLOWING ITEMS ORGANIZED AND TAB INDEXED IN ACCORDANCE WITH THE SPECIFICATIONS FORMAT AS FOLLOWS:
  - MAINTENANCE AND OPERATING INSTRUCTIONS AS PUBLISHED BY THE MATERIAL SUPPLIERS AND/OR EQUIPMENT MANUFACTURERS.
  - SPECIFIED EQUIPMENT GUARANTEES AND WARRANTIES.
  - EMERGENCY INSTRUCTIONS.
  - WIRING DIAGRAMS.
  - SHOP DRAWINGS AND PRODUCT DATA.
  - INSPECTION PROCEDURES AND SERVICE RECOMMENDATIONS.
  - ASSEMBLY DRAWINGS AND PARTS LISTS WITH IDENTIFICATION SYMBOLS OR PART NUMBERS FOR ALL REPLACEABLE PARTS AND ASSEMBLIES.
  - TEST REPORTS.

**PROJECT CONTACTS**

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COMMONWEALTH EDISON:	WILL IKEDA – DESIGN CONSTRUCTION CONSULTANT (847) 291-3126 / WILL.IKEDA@COMED.COM
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 9575 W. Higgins Road, Suite 600  
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**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

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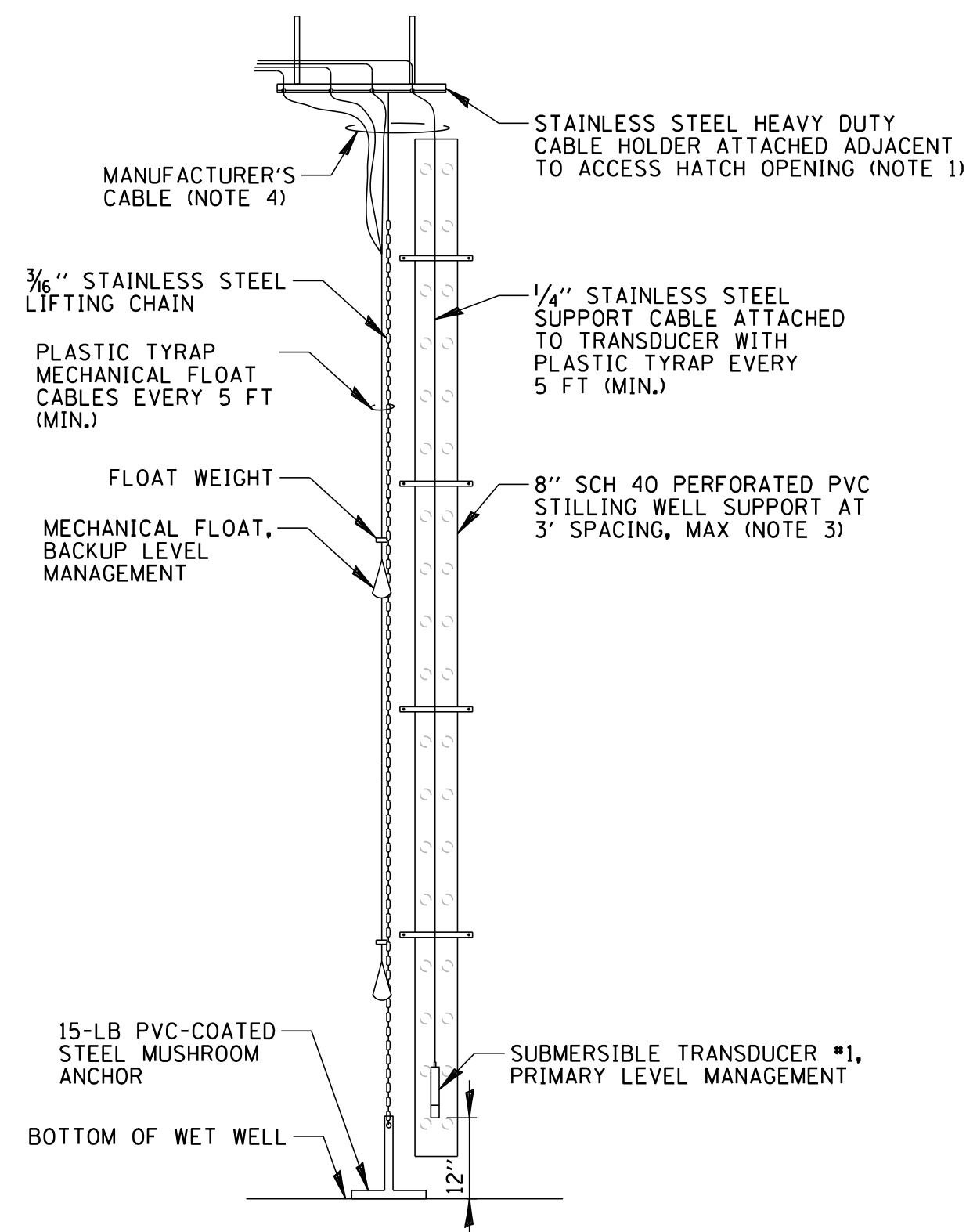
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PROJ. NO.	180245.00004
DATE:	10/8/2021
SHEET	63 OF 207
DRAWING NO.	<b>63</b>









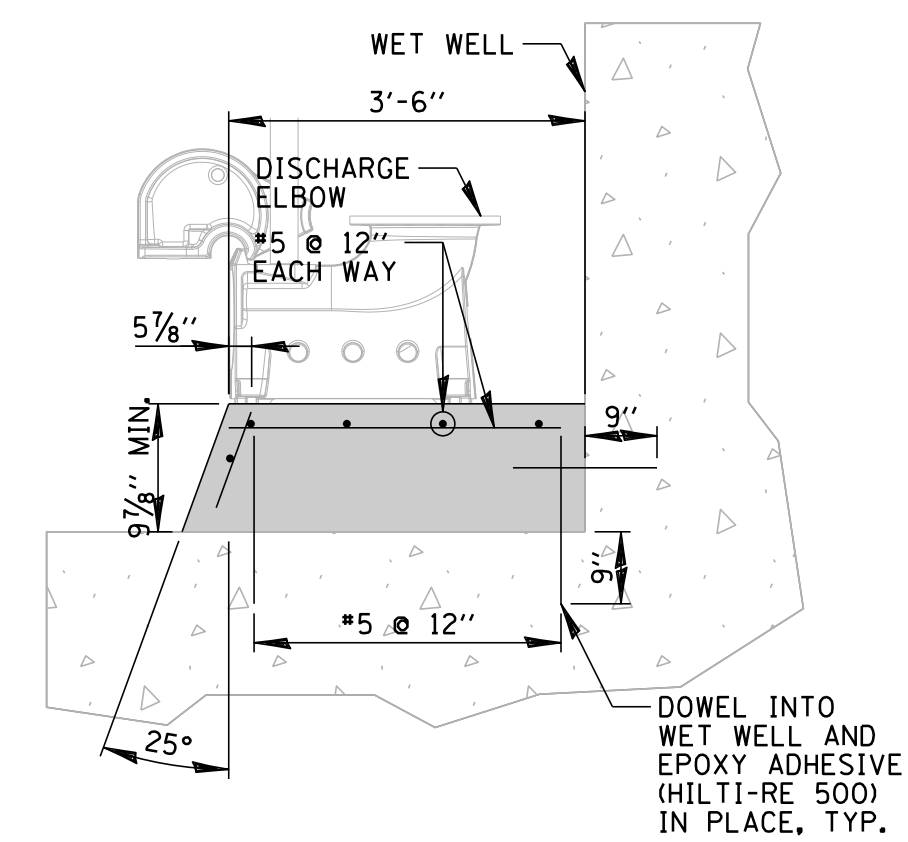


**NOTES:**

- CONTRACTOR SHALL INSTALL SUBMERSIBLE TRANSDUCER/MECHANICAL FLOAT MOUNTING BRACKET IN A READILY ACCESSIBLE LOCATION ADJACENT TO THE PROPOSED ACCESS HATCH. OWNER/OPERATOR SHALL NOT BE REQUIRED TO USE SPECIAL TOOLS, OR HAVE TO ENTER THE STRUCTURE TO ACCESS SUBMERSIBLE TRANSDUCER/MECHANICAL FLOAT CABLES.
- THE MECHANICAL FLOAT SYSTEM SHALL OPERATE AS A BACKUP LEVEL MANAGEMENT SYSTEM. A SUBMERSIBLE TRANSDUCER WITH A 0-35 FT RANGE SHALL OPERATE AS A PRIMARY LEVEL MANAGEMENT SYSTEM.
- SUPPORT STILLING WELL PIPE WITH STAINLESS STEEL PIPE CLAMPS FASTENED TO WET WELL WITH 3/4" STAINLESS STEEL THREADED RODS (EMBEDDED A MIN. OF 3") AND HILTI-RE 500 EPOXY ADHESIVE. PIPE CLAMPS SHALL BE SPACED A MAXIMUM OF 3' APART.
- CONTRACTOR SHALL COORDINATE CABLE LENGTHS WITH MECHANICAL FLOAT AND SUBMERSIBLE TRANSDUCER MANUFACTURER. CABLES SHALL BE LONG ENOUGH TO TERMINATE WITHIN THE PUMP CABLE JUNCTION BOX, PLUS AN ADDITIONAL 10' OF CABLE COILED UP WITHIN THE WET WELL.

**WET WELL LEVEL MANAGEMENT SYSTEM DETAIL**

N.T.S.

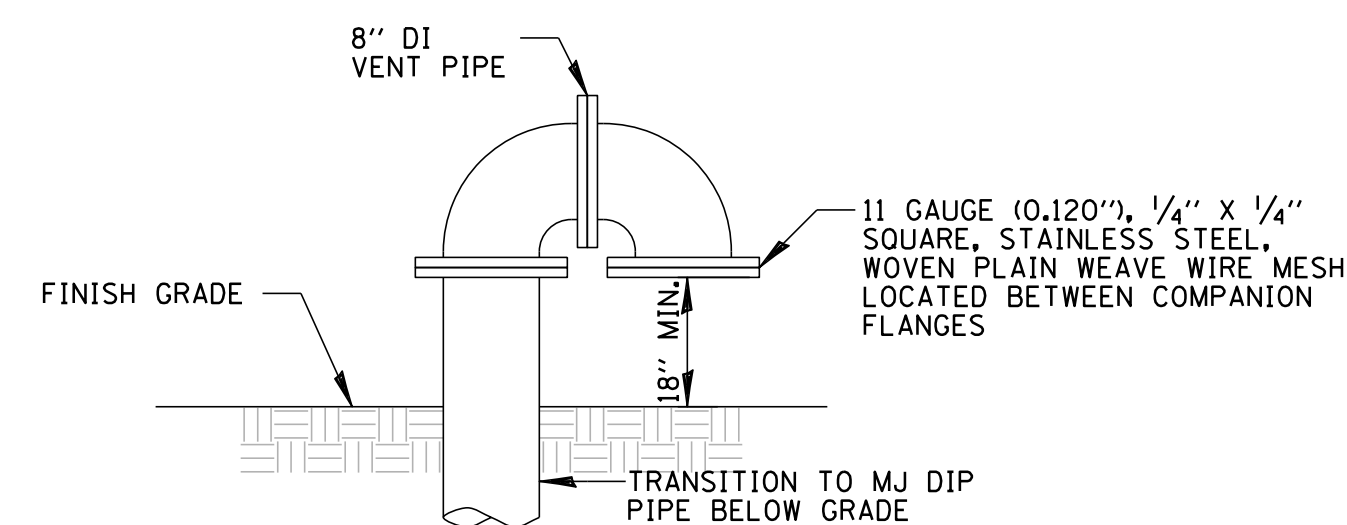


**NOTES:**

- WET WELL RAISED PUMP BASE SHALL BE CONSTRUCTED WITH IDOT CLASS S1 CONCRETE.

**WET WELL RAISED PUMP BASE DETAIL**

N.T.S.

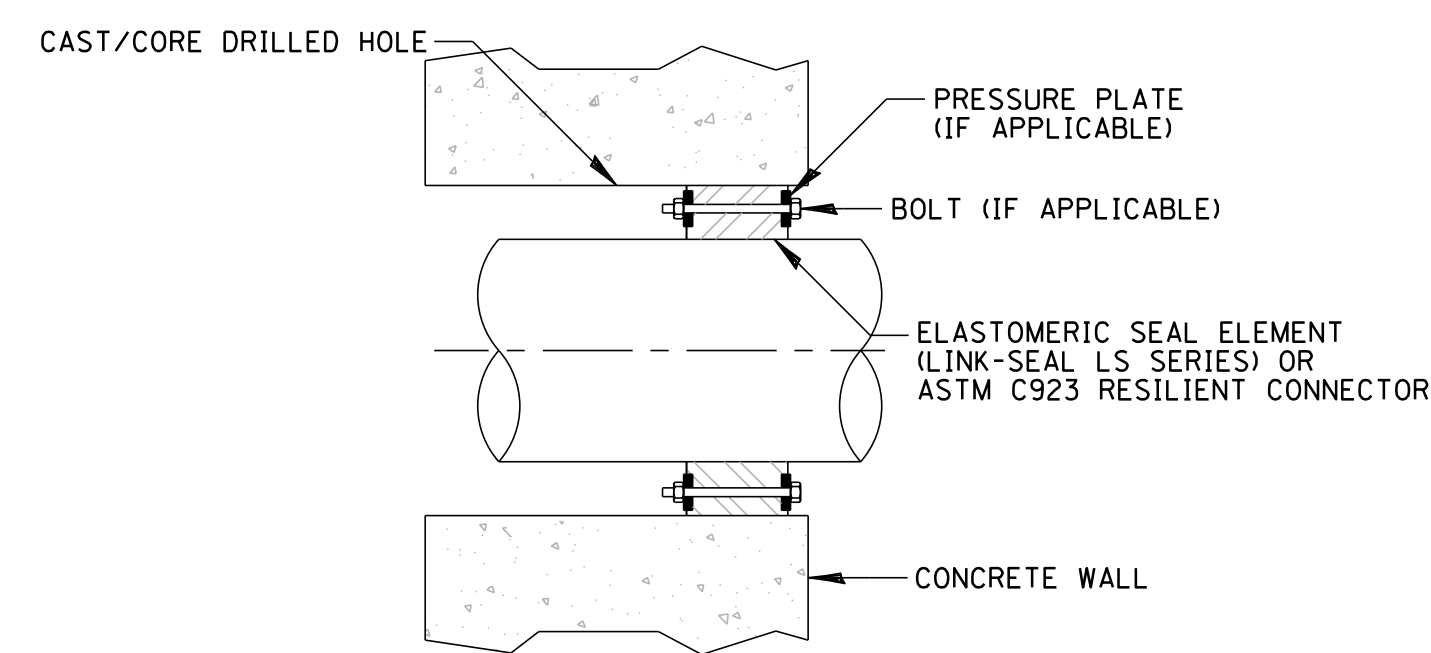


**NOTES:**

- VENT PIPING SHALL BE PAINTED WITH TNE MEC 73 ENDURA-SHIELD IN EVERGREEN (98GN).

**VENT PIPE DETAIL**

N.T.S.



**WET WELL AND DISCHARGE STRUCTURE PENETRATION DETAIL**

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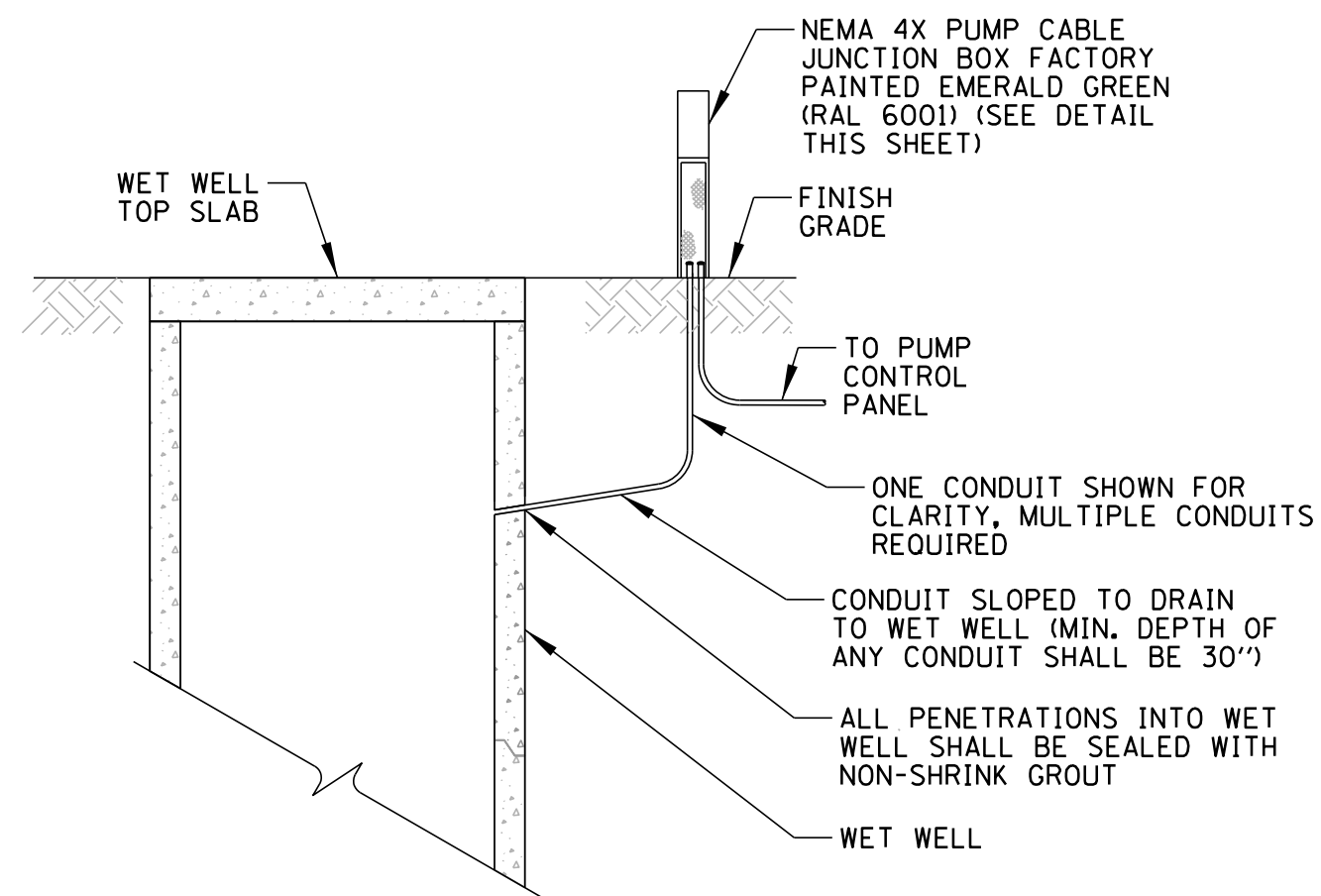




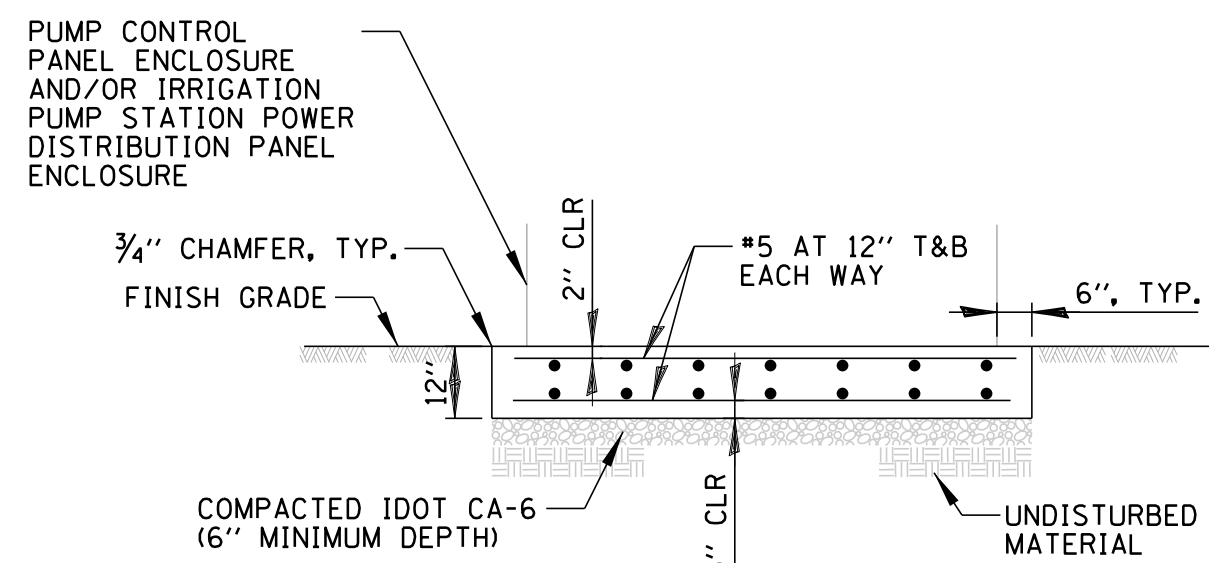






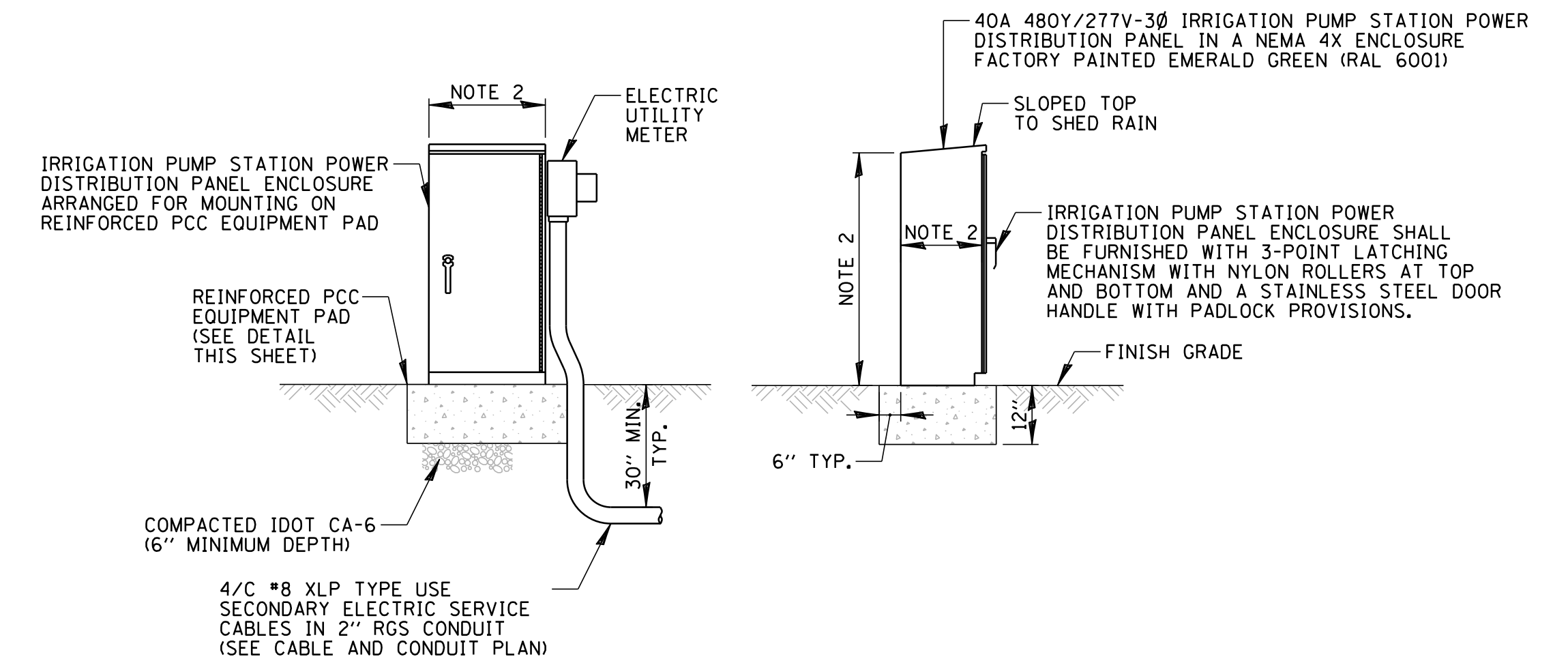


**TYPICAL SECTION VIEW THROUGH PUMP STATION**  
N.T.S.



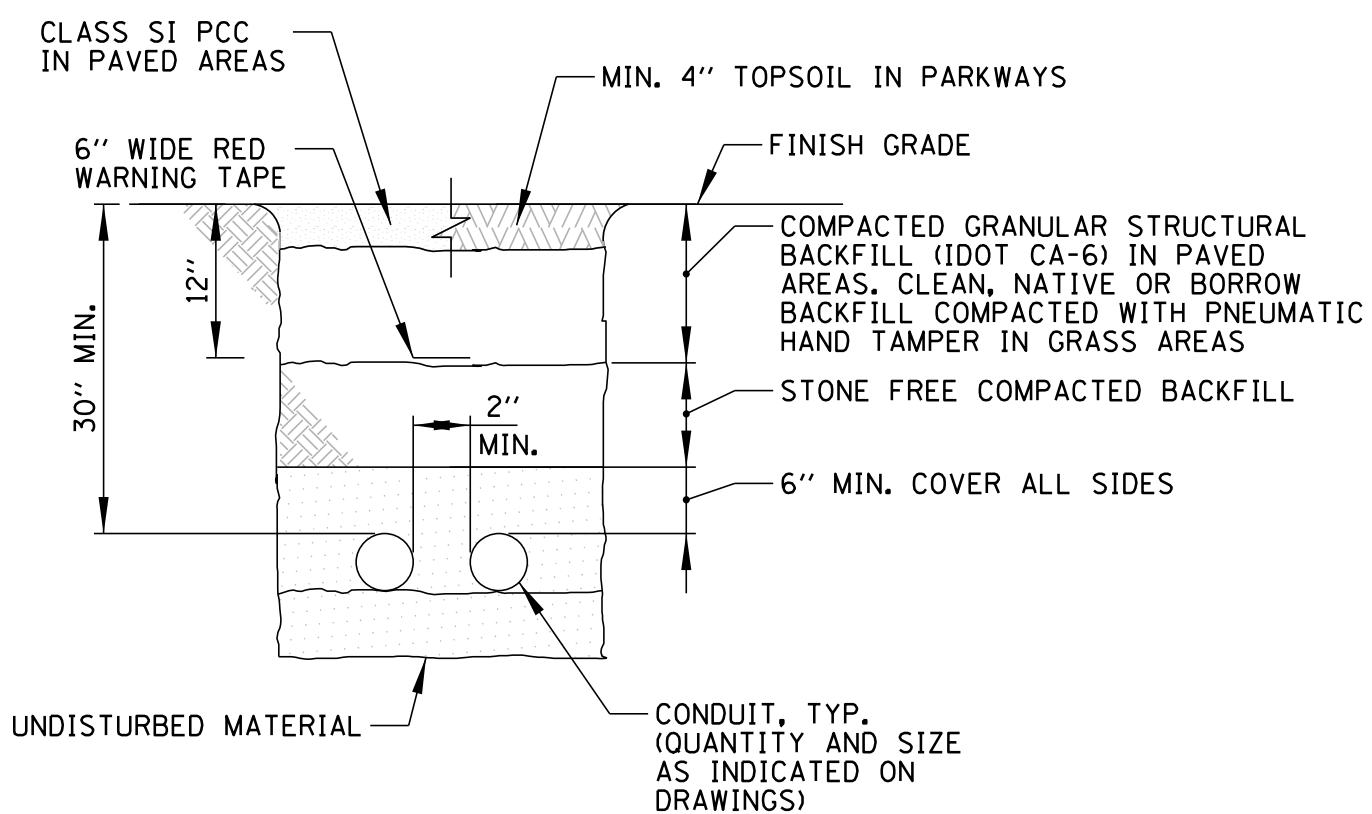
- NOTES:  
1. REINFORCED PCC EQUIPMENT PAD SHALL BE CONSTRUCTED WITH IDOT CLASS S1 CONCRETE.

**REINFORCED PCC EQUIPMENT PAD DETAIL**  
N.T.S.

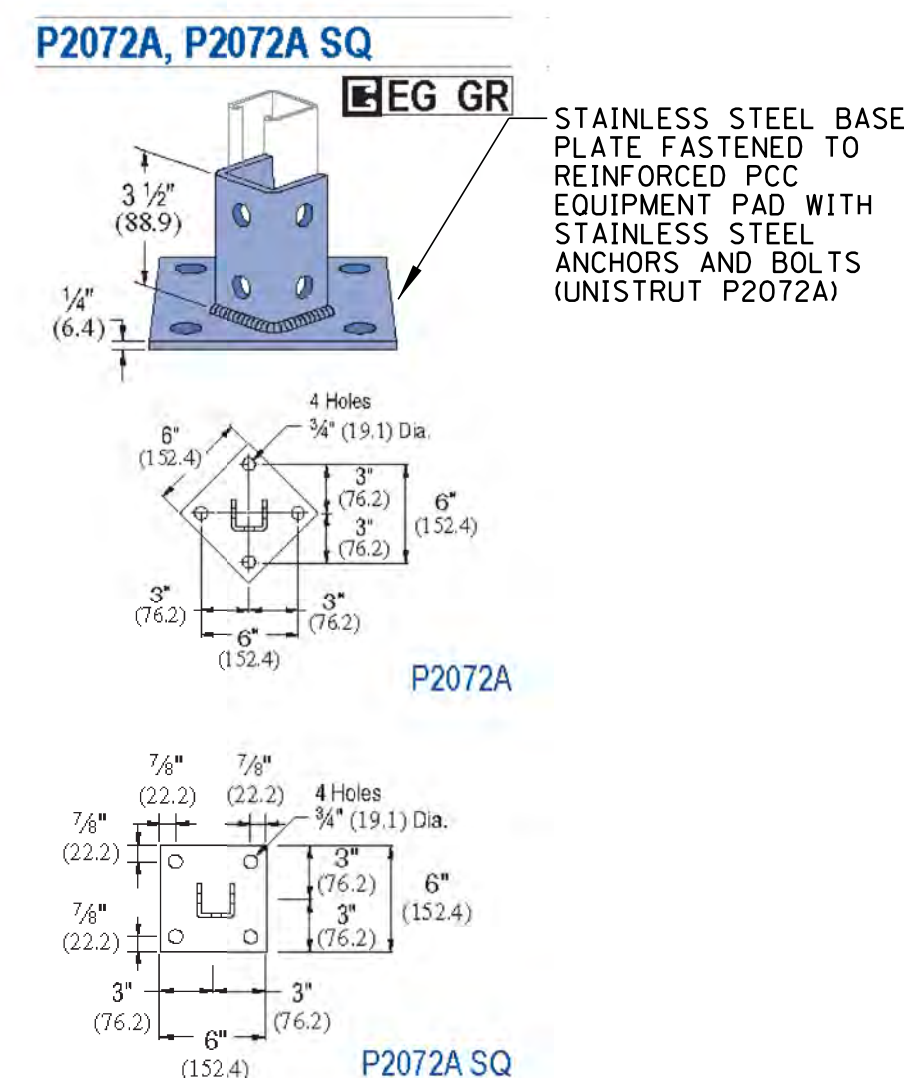


- NOTES:  
1. SEE SITE PLAN FOR ORIENTATION.  
2. ENCLOSURES SHALL BE AS COMPACT AS POSSIBLE. CONTRACTOR TO COORDINATE OVERALL SIZE AS REQUIRED.  
3. ALL LABELS SHALL BE PER NEC 110.21 AND 110.22.  
4. PROVIDE EACH CONDUIT WITH FLEXIBLE CONDUIT SEALING COMPOUND.

**IRRIGATION PUMP STATION POWER DISTRIBUTION PANEL ENCLOSURE**  
N.T.S.

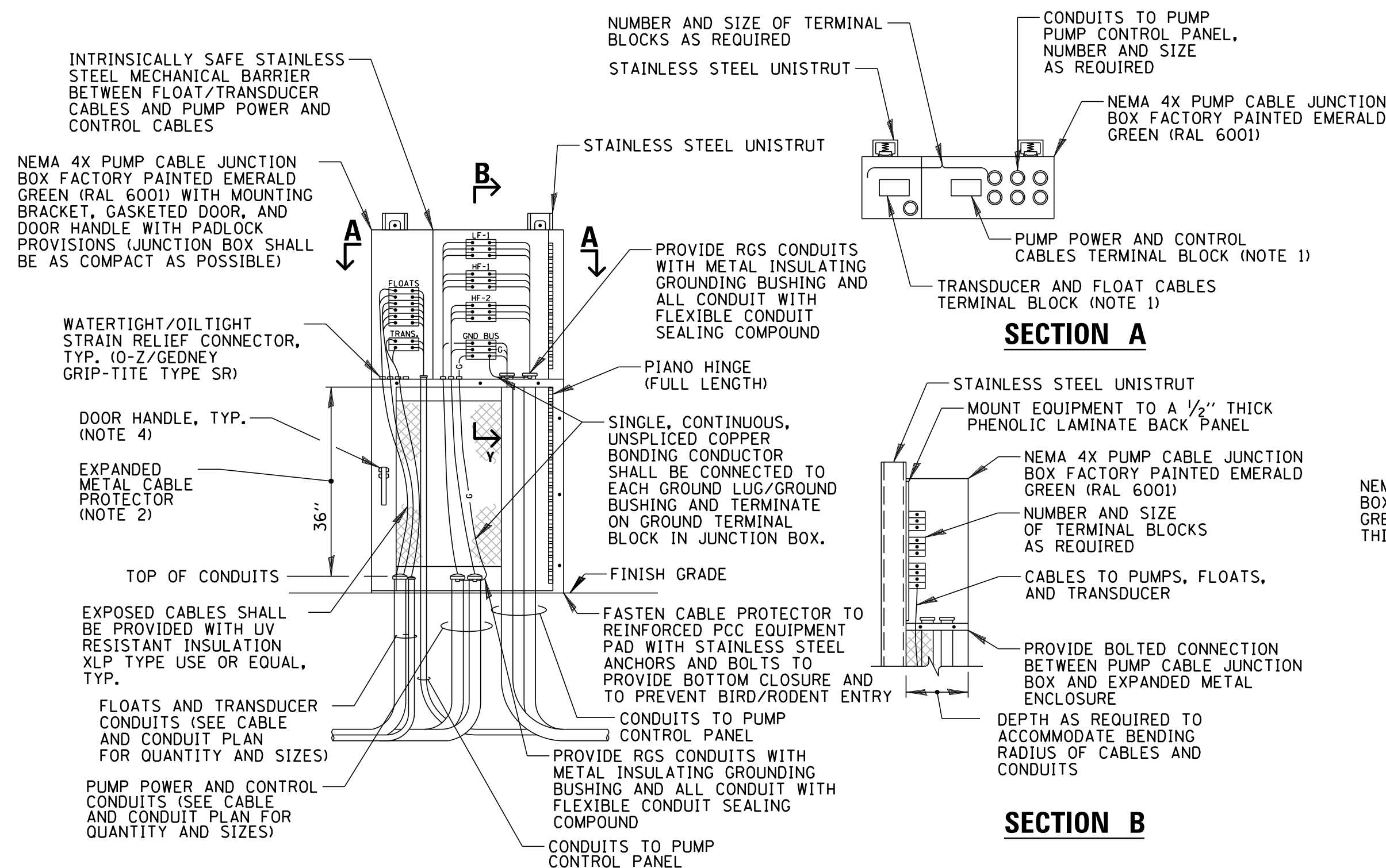


**TYPICAL ELECTRICAL CONDUIT INSTALLATION**  
N.T.S.



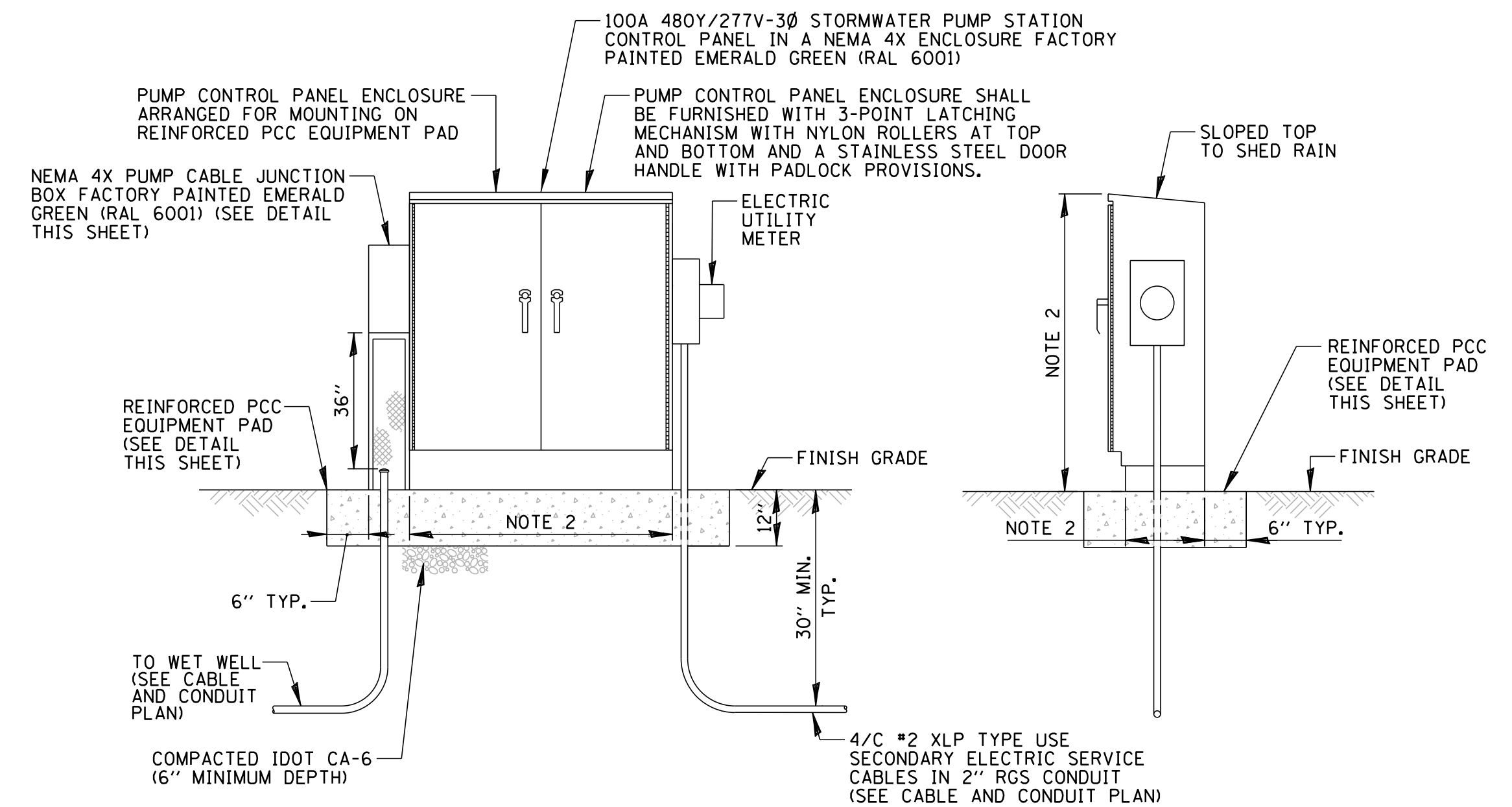
- NOTES:  
1. UNISTRUT CHANNELS, FASTENERS AND BASE PLATES SHALL BE STAINLESS STEEL.

**UNISTRUT SUPPORT DETAIL**  
N.T.S.



- NOTES:  
1. PROVIDE INTRINSICALLY SAFE STAINLESS STEEL MECHANICAL BARRIER TO SEPARATE POWER CABLES FROM INTRINSICALLY SAFE CABLES.  
2. EXPANDED METAL CABLE PROTECTOR SHALL BE 14 GAUGE TYPE 304 FLATTENED STAINLESS STEEL WITH A DIAMOND PATTERN, 75% OPEN AREA AND CLOSED (BOND) EDGE CONFIGURATION, FORMED TO MATCH DEPTH OF THE PUMP CABLE JUNCTION BOX (TOP ENCLOSURE).  
3. SEAL AROUND EXPANDED METAL CABLE PROTECTOR TO PREVENT BIRD/RODENT ENTRY.  
4. PUMP CABLE JUNCTION BOX (TOP ENCLOSURE) SHALL BE FURNISHED WITH 3-POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP AND BOTTOM. BOTH PUMP CABLE JUNCTION BOX AND EXPANDED METAL CABLE PROTECTOR SHALL BE PROVIDED WITH A STAINLESS STEEL DOOR HANDLE WITH PADLOCK PROVISIONS.  
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED SIZE AND NUMBER OF TERMINAL BLOCKS, CABLE CRIPS, CONDUITS, ETC. NECESSARY FOR PROPOSED DESIGN. THE ABOVE DETAIL IS SCHEMATIC IN NATURE AND DOES NOT DETAIL EXACT QUANTITIES AND SIZES OF PUMP POWER AND CONTROL CABLES AND CONDUITS.  
6. EQUIPMENT GROUND CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.122 AND BONDED TO PROPOSED GROUNDING ELECTRODE SYSTEM.  
7. CONDUITS SHALL NOT EXTEND MORE THAN 2" ABOVE REINFORCED PCC EQUIPMENT PAD.

**PUMP CABLE JUNCTION BOX DETAIL**  
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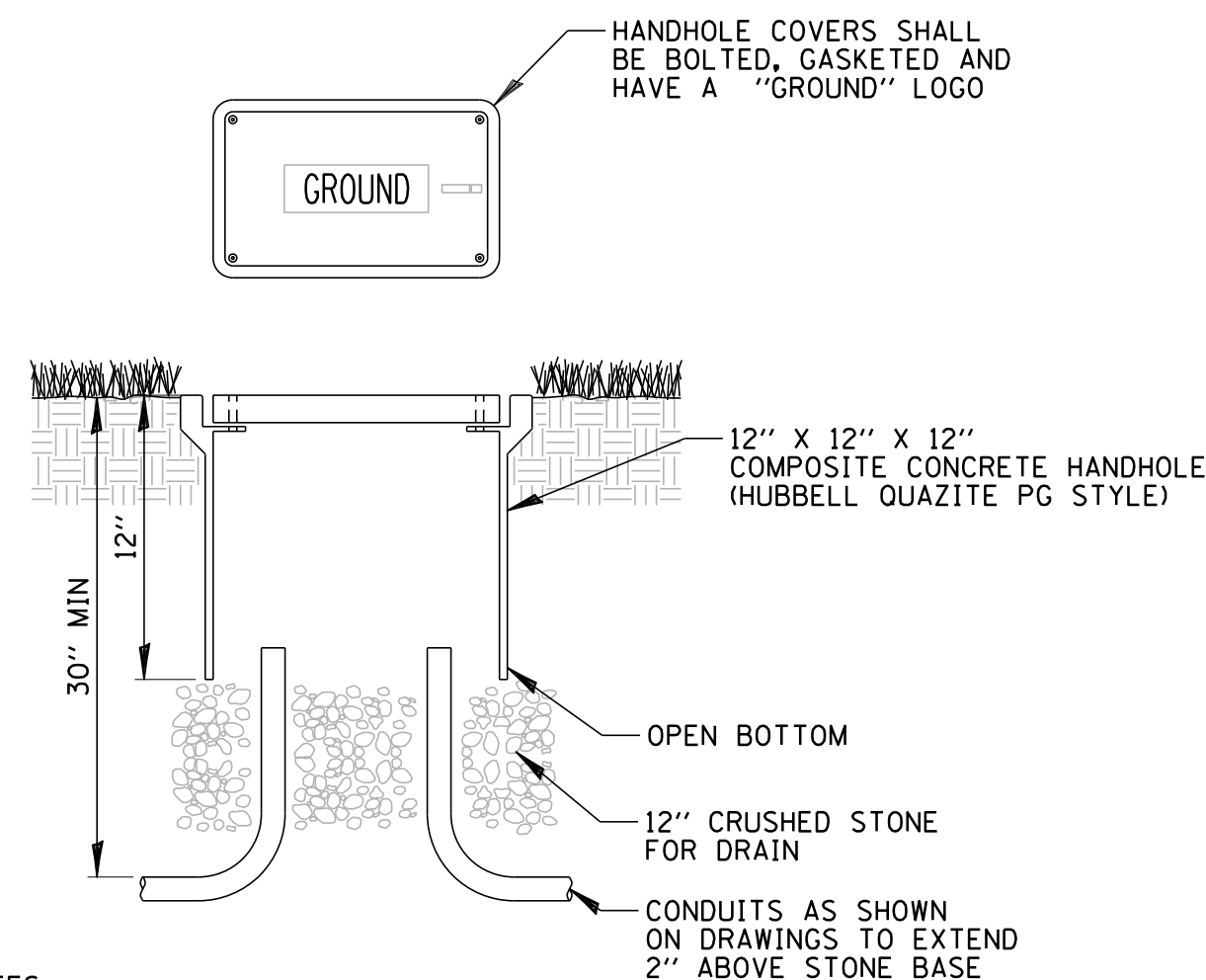


- NOTES:  
1. SEE SITE PLAN FOR ORIENTATION.  
2. ENCLOSURES SHALL BE AS COMPACT AS POSSIBLE. CONTRACTOR TO COORDINATE OVERALL SIZE AS REQUIRED.  
3. ALL LABELS SHALL BE PER NEC 110.21 AND 110.22.  
4. PROVIDE EACH CONDUIT WITH FLEXIBLE CONDUIT SEALING COMPOUND.

**STORMWATER PUMP STATION CONTROL PANEL ENCLOSURE**  
N.T.S.

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DWN.	DRK		<b>WSNSP CONTRACT #3</b> <b>STORMWATER PUMP STATION</b> <b>ELECTRICAL DETAILS (2 OF 3)</b>	DATE: 10/8/2021
CHKD.	JPC			SHEET 73 OF 207
SCALE:		N.T.S.		DRAWING NO.
PLOT DATE:		10/8/2021		<b>73</b>
CAD USER:		mkoonce		

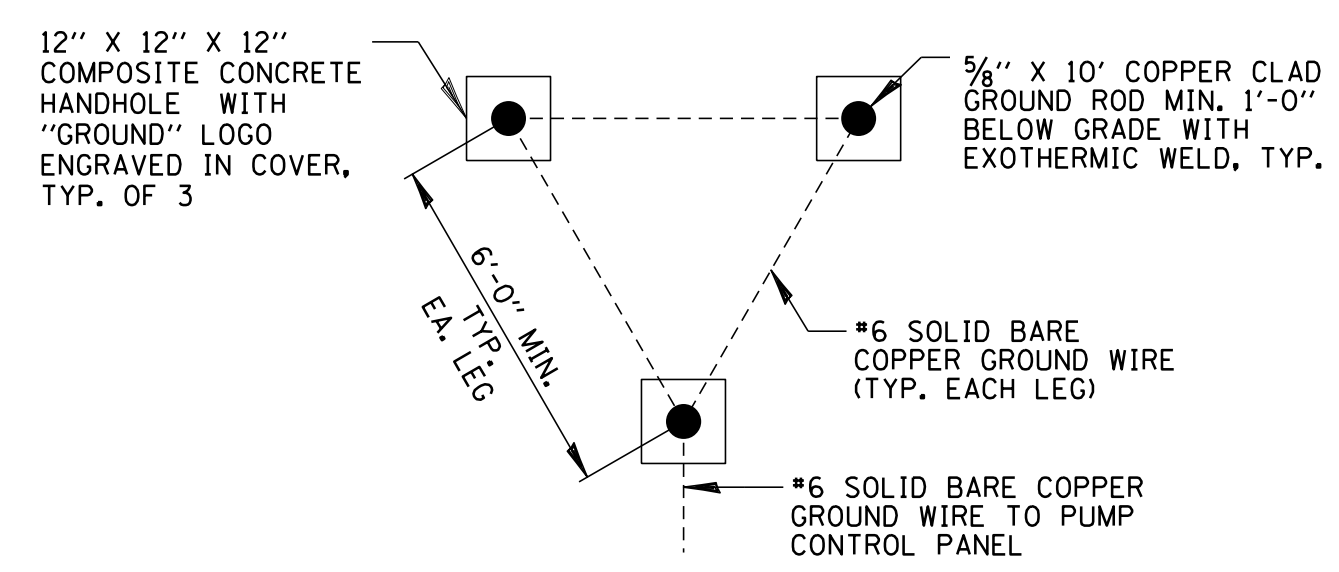


**NOTES:**

1. COMPOSITE CONCRETE HANDHOLE AND LID SHALL BE GREEN IN LANDSCAPE AREAS AND MATCH CONCRETE IN PAVED AREAS. LOCATIONS FOR ALL HANDHOLES TO BE APPROVED BY OWNER PRIOR TO INSTALLATION.
2. BOX AND LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS, AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SC1E 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTERN UNDERGROUND COMMITTEE GUIDE 3.6.

**COMPOSITE CONCRETE HANDHOLE**

N.T.S.

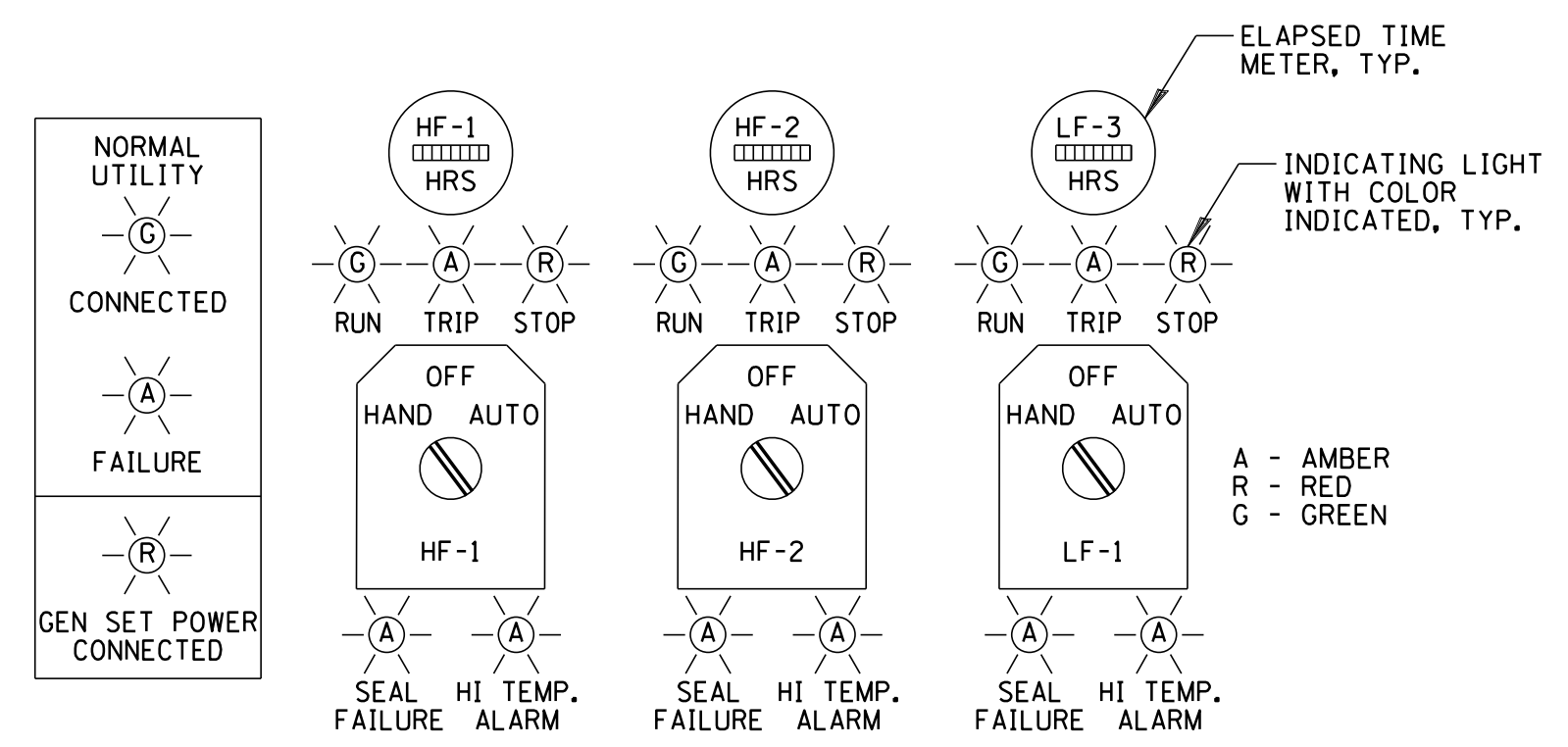


**NOTES:**

1. FURNISH AND INSTALL A GROUND FIELD AS SHOWN ON THE DRAWINGS. GROUNDING ELECTRODE CONDUCTOR SHALL BE INSTALLED 1' MINIMUM BELOW GROUND.
2. GROUND ALL EXPOSED METAL WORK (HATCHES, METAL CABINETS AND EQUIPMENT FRAMES, ETC.) CONNECTIONS TO HATCHES, AND OTHER METAL WORK SHALL BE MECHANICAL TYPE. CONNECTIONS TO GALVANIZED EQUIPMENT AND TO EQUIPMENT WHICH MAY BE REMOVED FOR MAINTENANCE SHALL BE MADE WITH BOLTED CLAMP TYPE CONNECTIONS OF SOLID COPPER, WELDED TO THE GROUNDING CONNECTOR.
3. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF SYSTEM GROUNDING CONDUCTOR SHALL BE #6 AWG.
4. EACH CONDUIT RUN SHALL BE GROUNDED TO THE COMMON GROUNDING BUS IN THE PANEL WHERE IT ORIGINATES. EQUIPMENT GROUND CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.122 AND BONDED TO PROPOSED GROUNDING ELECTRODE SYSTEM.
5. GROUND RODS SHALL BE COPPERWELD, MINIMUM 3/8" DIAMETER X 10' LONG. CABLE-TO-CABLE AND CABLE-TO-GROUND ROD CONNECTIONS SHALL BE MADE BY THE FUSION WELDING PROCESS.

**GROUND FIELD DETAIL**

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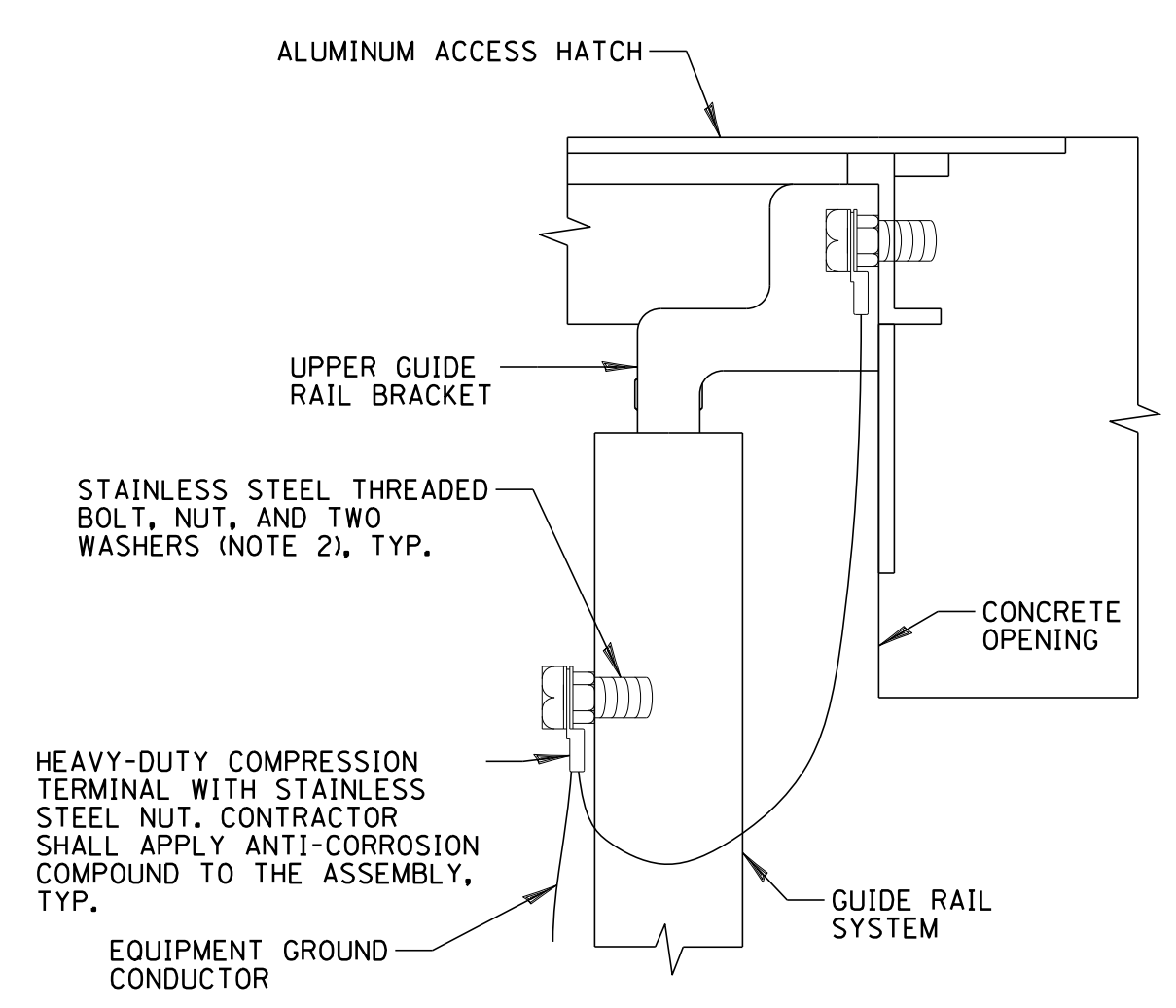


**NOTES:**

1. INDICATING LIGHTS SHALL BE LED WITH PUSH-TO-TEST FEATURE.
2. CONTRACTOR SHALL PROVIDE CONTROLS, INDICATING LIGHTS, ELAPSED TIME METERS, ETC. FOR THE SPECIFIED NUMBER OF PUMPS. THE ABOVE DETAIL IS SCHEMATIC AND DOES NOT DETAIL THE PROPOSED INSTALLATION.

**TYPICAL CONTROL LAYOUT**

N.T.S.



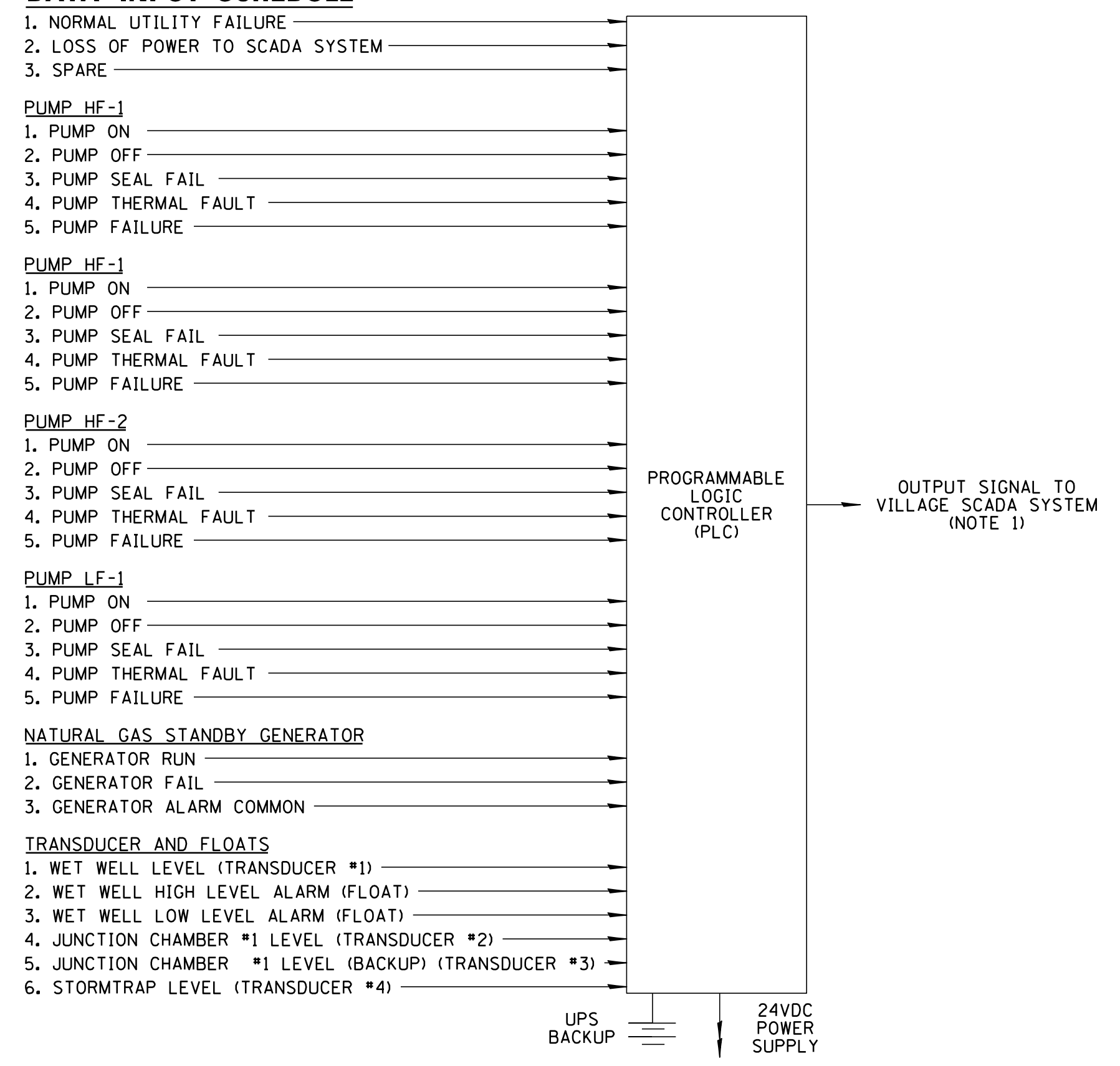
**NOTES:**

1. EQUIPMENT GROUNDING CONDUCTOR SHALL NOT BE CUT.
2. BOLT SHALL BE LOCATED SO THAT IT DOES NOT OBSTRUCT PUMP REMOVAL.

**BONDING PUMP STATION WET WELL HATCH AND GUIDE RAILS**

N.T.S.

**DATA INPUT SCHEDULE**



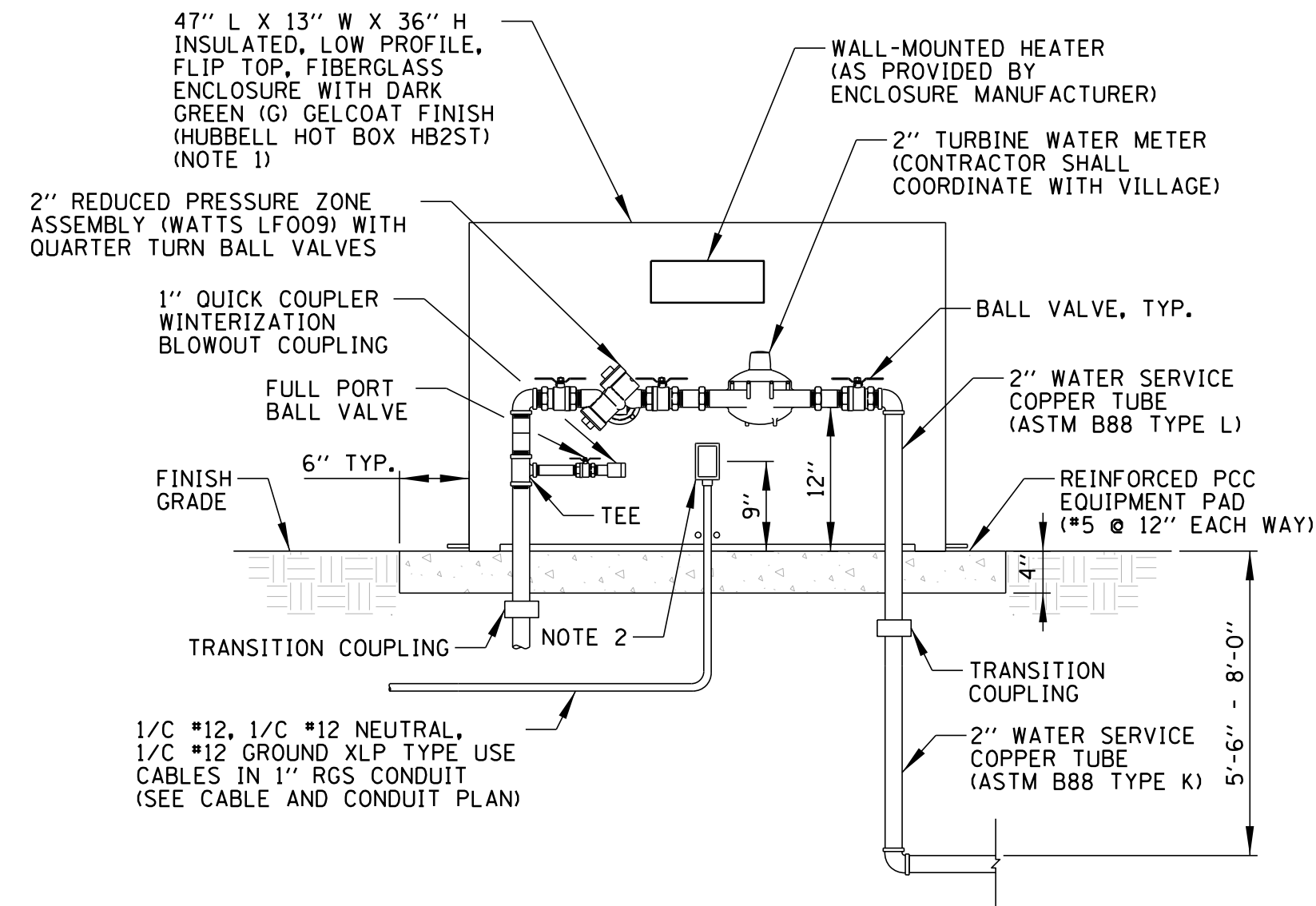
**NOTES:**

1. CONTRACTOR SHALL COORDINATE WITH VILLAGE'S SCADA SYSTEM INTEGRATOR AND SPECIFICATIONS TO PROVIDE INPUTS AND OUTPUTS AS REQUIRED TO INTERFACE WITH EXISTING VILLAGE SCADA SYSTEM.
2. THE PROPOSED CONTROL PANEL SHALL BE FURNISHED WITH A PLC, HUMAN MACHINE INTERFACE (HMI) AND DEDICATED SECURE CELLULAR MODEM SYSTEM FOR INTEGRATION BY THE VILLAGE.

**SCADA DATA INPUT ONE LINE DIAGRAM**

N.T.S.

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
				Default
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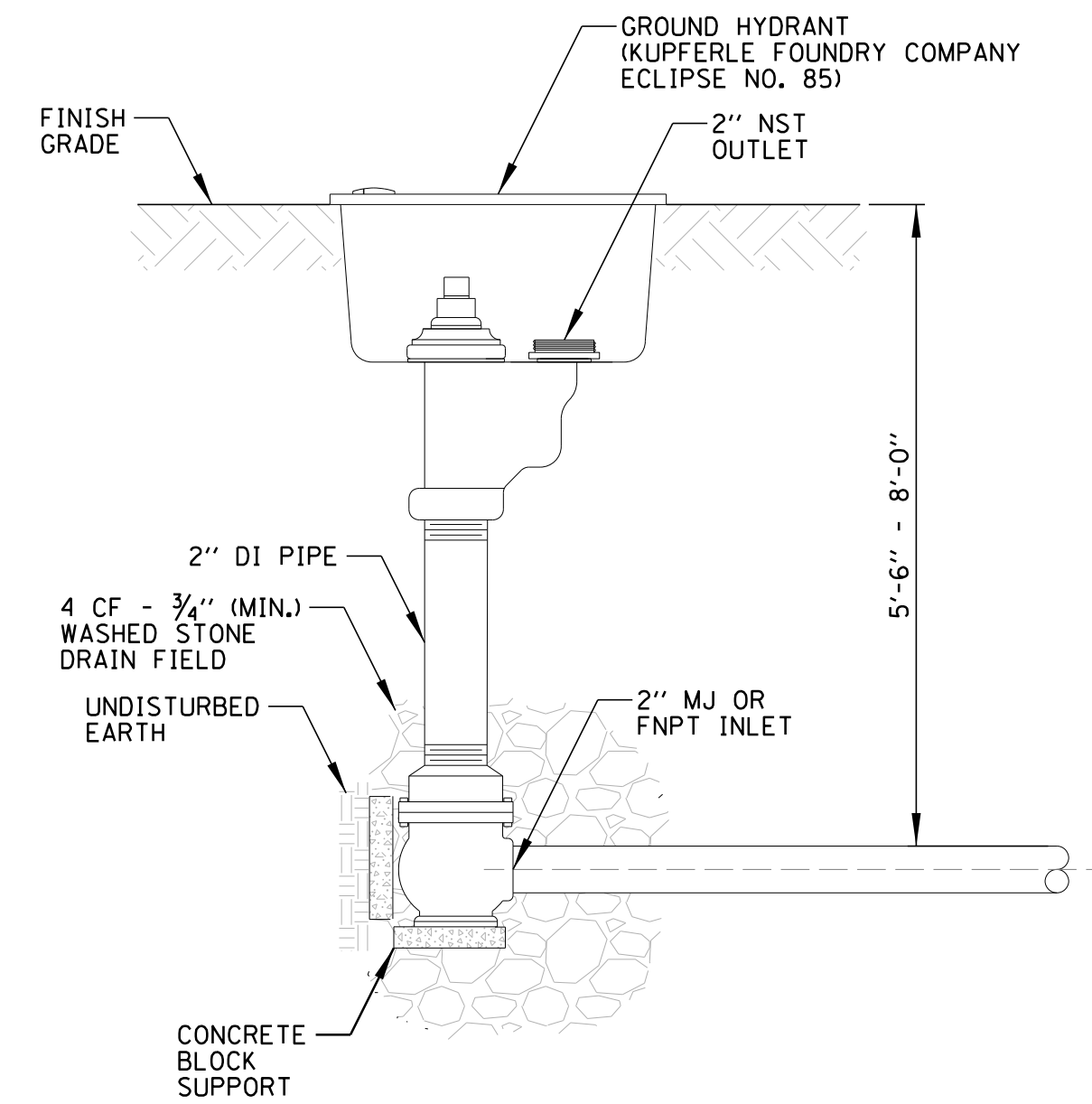


**NOTES:**

1. RPZ/WATER METER ENCLOSURE SHALL BE AS COMPACT AS POSSIBLE. CONTRACTOR TO COORDINATE OVERALL SIZE AS REQUIRED.
2. CONTRACTOR SHALL FURNISH AND INSTALL A 20A 120V-10 GFCI DUPLEX RECEPTACLE FOR WALL-MOUNTED ENCLOSURE HEATER. THE RECEPTACLE SHALL BE MOUNTED IN A SINGLE GANG CAST ALUMINUM DEVICE BOX WITH A DIE CAST ALUMINUM COVER RATED FOR IN USE.
3. REINFORCED PCC EQUIPMENT PAD SHALL BE CONSTRUCTED WITH IDOT CLASS S1 CONCRETE.

**RPZ /WATER METER ENCLOSURE DETAIL**

N.T.S.

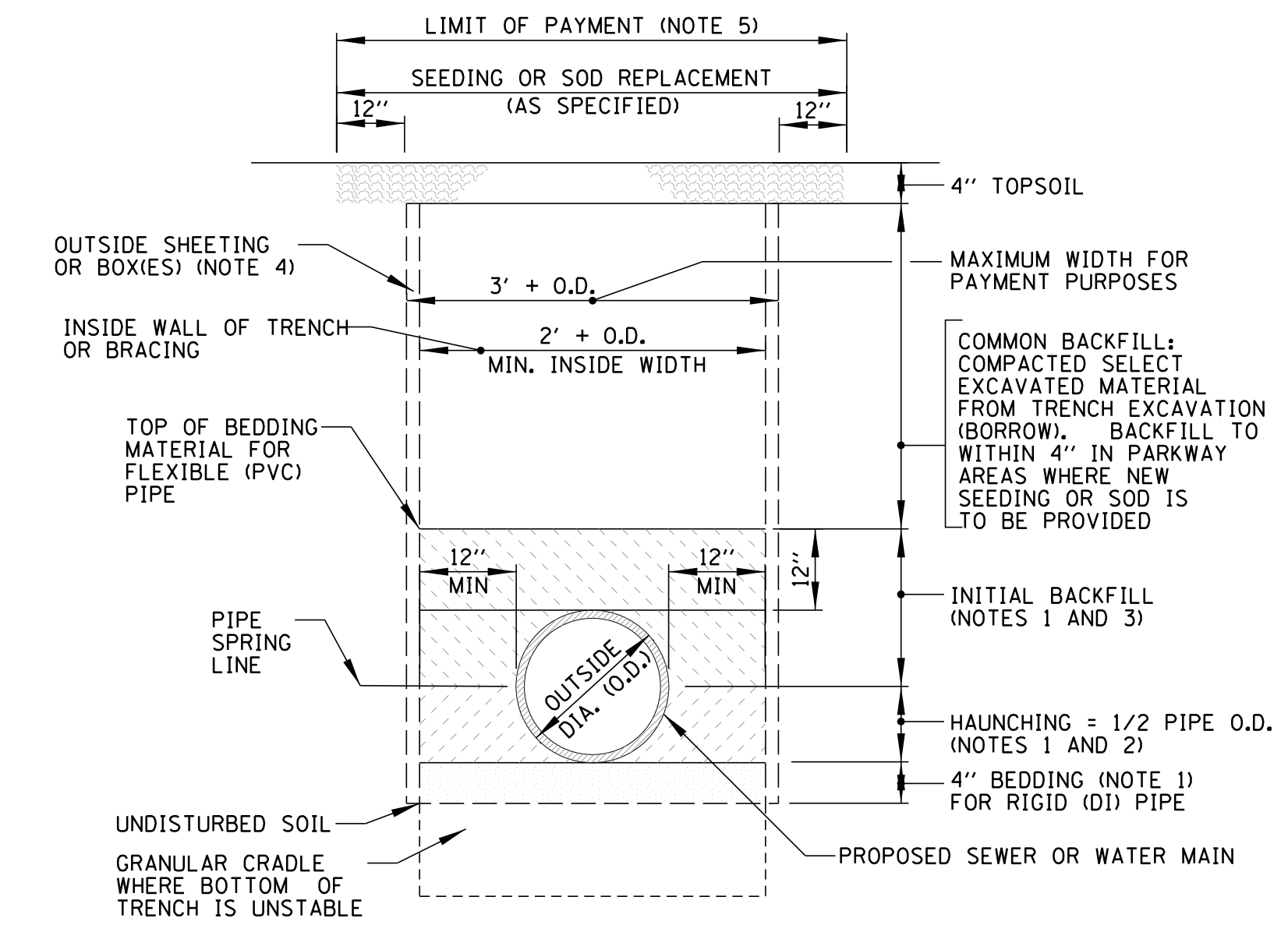


**NOTES:**

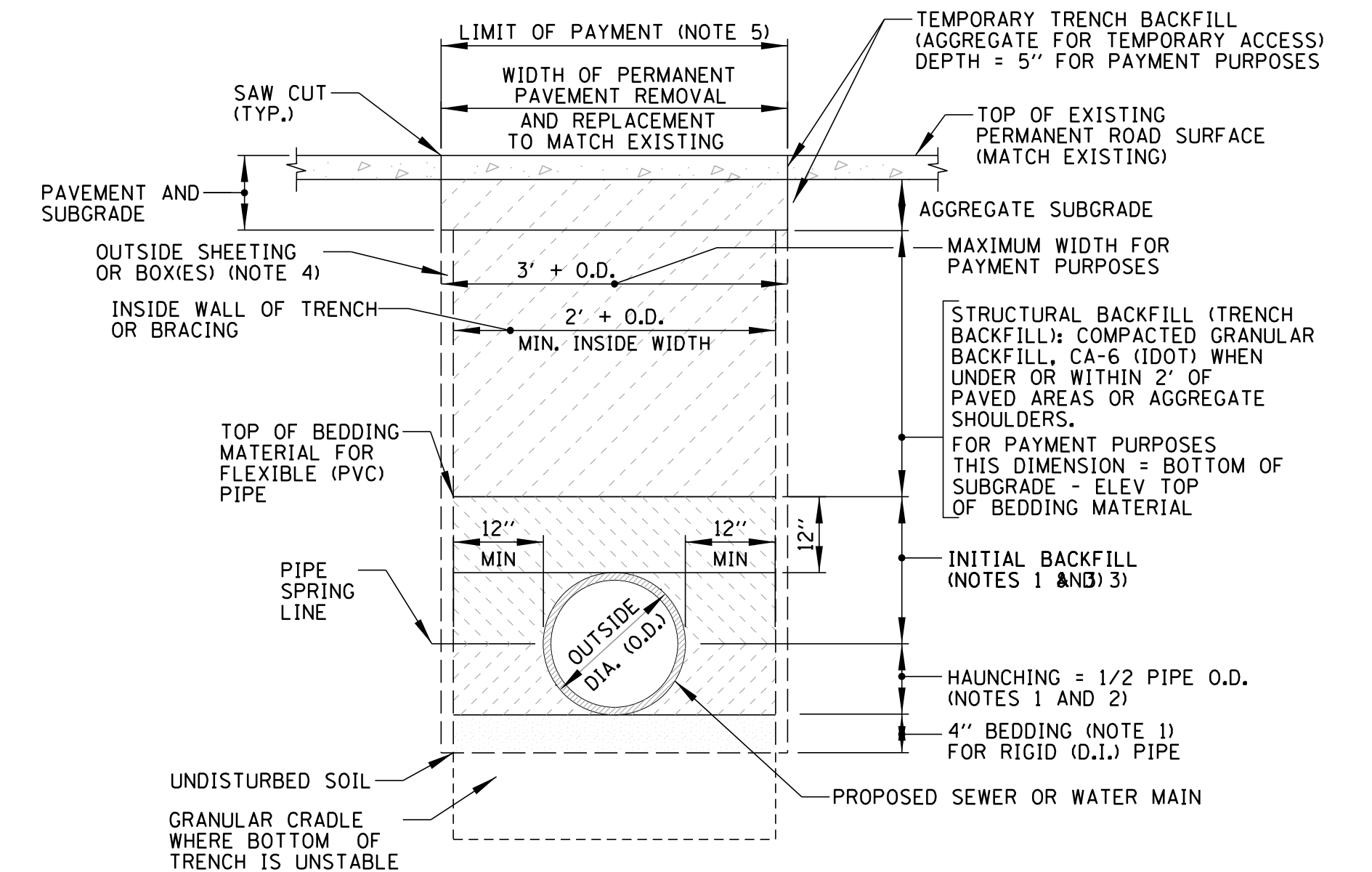
1. GROUND HYDRANT SHALL BE SELF-DRAINING, NON-FREEZING, COMPRESSION TYPE WITH A 1 1/2" MAIN OPENING, AND OPERATED WITH A "T" HANDLE.
2. GROUND HYDRANT SHALL HAVE A DUCTILE IRON (DI) EXTERIOR CASING PIPE, A GALVANIZED STEEL INTERIOR NON-TURNING OPERATING ROD WITH A HEAVY WALL CAST IRON BOX AND LOCKING LID.
3. PRINCIPAL INTERIOR OPERATING PARTS SHALL BE BRASS, BRONZE, AND ALUMINUM AND BE REMOVABLE FOR SERVICING WITHOUT EXCAVATING THE GROUND HYDRANT.

**GROUND HYDRANT DETAIL**

N.T.S.



**WITHIN PARKWAY AREAS (COMMON BACKFILL)**



**WITHIN PAVED, DRIVEWAY OR WALKWAY AREAS (STRUCTURAL BACKFILL)**

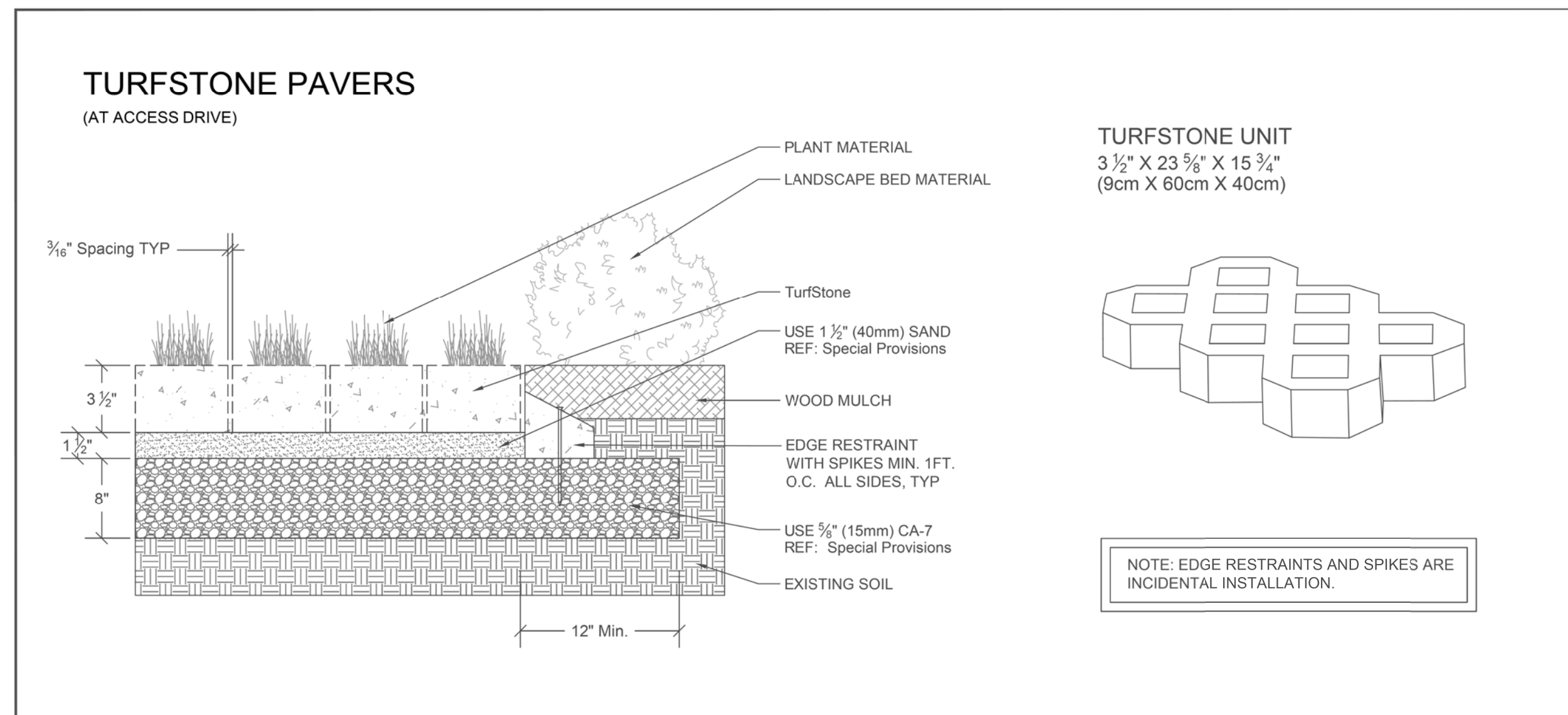
**NOTES:**

1. BEDDING/HAUNCHING/INITIAL BACKFILL:
  - A. FOR FLEXIBLE (PVC) PIPE THE BEDDING/HAUNCHING/INITIAL BACKFILL MATERIAL SHALL CONFORM TO IDOT CA-11 OR CA-13 GRADATION.
  - B. FOR RIGID (DI) PIPE THE BEDDING MATERIAL SHALL BE CA-11, AND THE HAUNCHING/INITIAL BACKFILL SHALL MATCH THE TRENCH BACKFILL MATERIAL.
2. AFTER BEDDING HAS BEEN PLACED/COMPACTED/BROUGHT TO GRADE, PLACE AND COMPACT HAUNCHING TO PIPE SPRING LINE.
3. PLACE INITIAL BACKFILL IN TWO STAGES AS FOLLOWS:
  - 1st STAGE - PLACE AND COMPACT TO TOP OF PIPE
  - 2nd STAGE - PLACE AND COMPACT AT LEAST 12" OVER TOP OF PIPE
4. VOIDS LEFT BY SHEETING/BRACING WHEN REMOVED SHALL BE FILLED WITH FINE SAND AND SHALL BE CONSIDERED INCIDENTAL TO THE WORK. SHEETING TO BE LEFT IN PLACE WHEN SPECIFIED ON THE PLANS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION BEYOND THE LIMIT OF PAYMENT AS SHOWN.
6. THE COST FOR BEDDING SHALL BE INCLUDED IN THE COST OF PIPE INSTALLATION.

**TYPICAL TRENCH BACKFILL DETAILS AND TRENCHING**

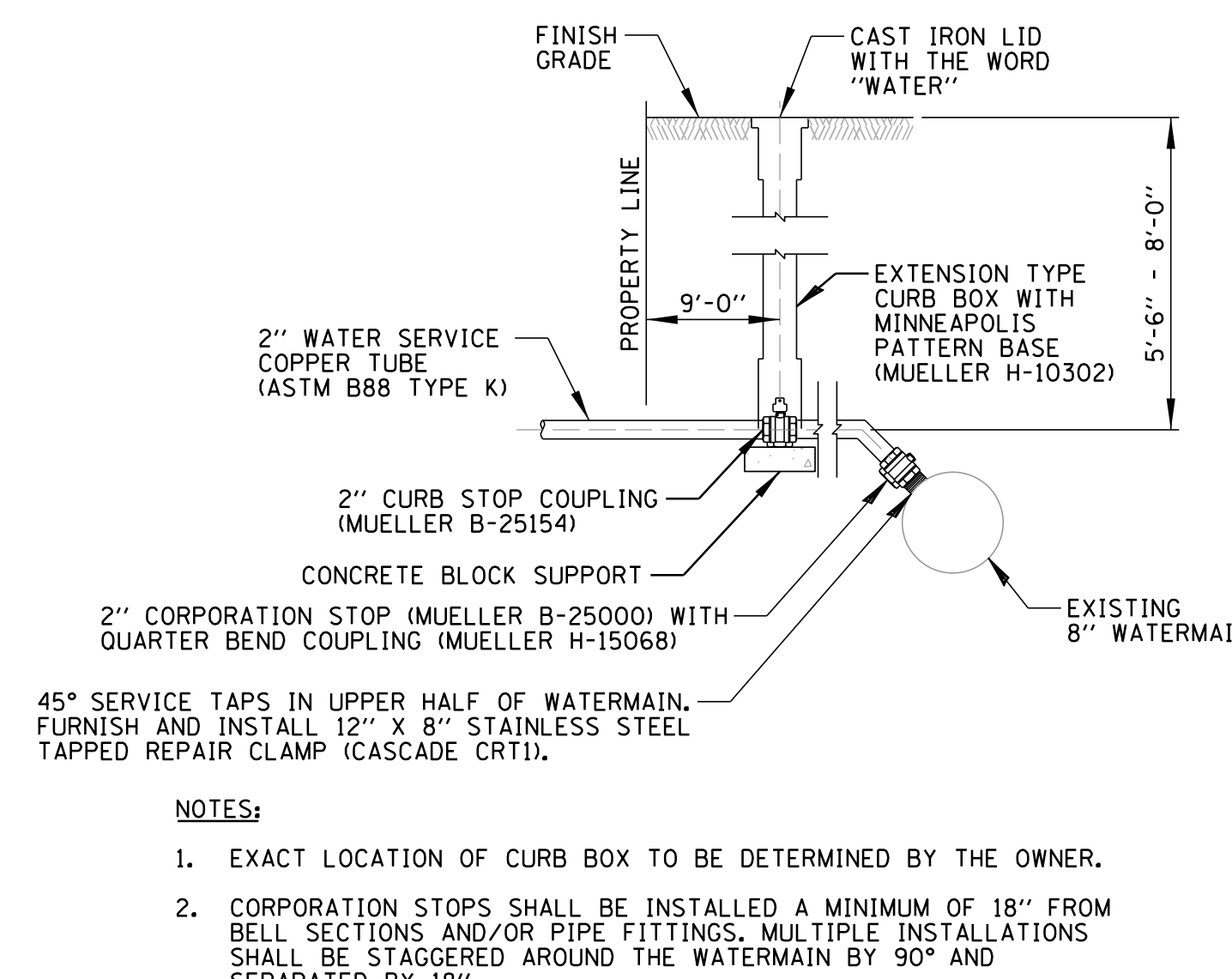
**NOTES FOR PARKWAY AREAS AND PAVED AREAS**

N.T.S.



**TURFSTONE PAVER ACCESS DRIVE DETAIL**

N.T.S.



**NOTES:**

1. EXACT LOCATION OF CURB BOX TO BE DETERMINED BY THE OWNER.
2. CORPORATION STOPS SHALL BE INSTALLED A MINIMUM OF 18" FROM BELL SECTIONS AND/OR PIPE FITTINGS. MULTIPLE INSTALLATIONS SHALL BE STAGGERED AROUND THE WATERMAIN BY 90° AND SEPARATED BY 18".

**WATER SERVICE TAP DETAIL**

N.T.S.

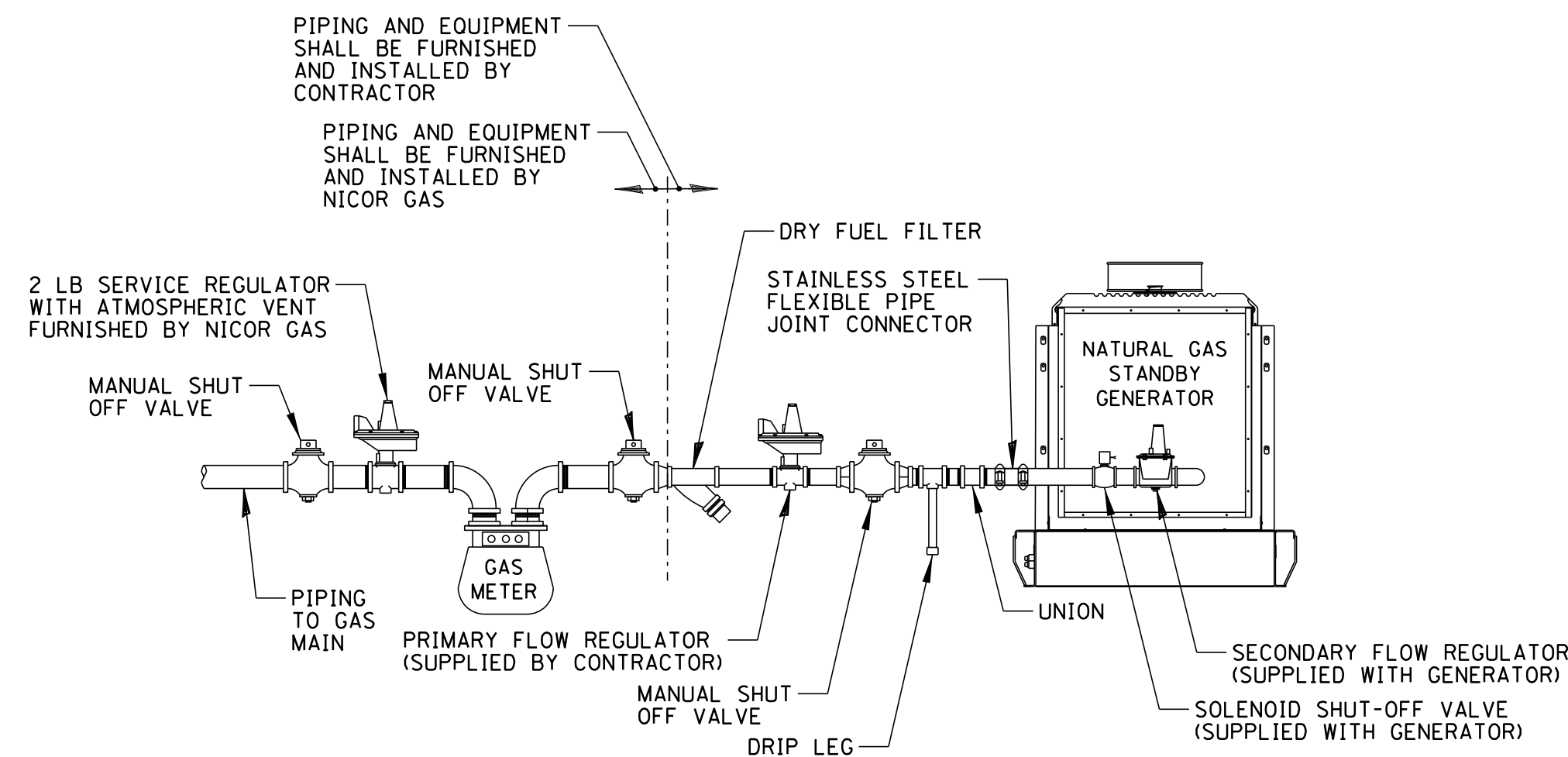
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DSGN.	JPC	DRK	TITLE:	
DWN.	DRK		WSNSP CONTRACT #3	
CHKD.	JPC		STORMWATER PUMP STATION	
SCALE:	N.T.S.			
PLOT DATE:	10/8/2021			
CAD USER:	mkoonce			
MODEL:	Default			

**NATURAL GAS STANDBY GENERATOR SCHEDULE**

UNIT SIZE	CONNECTED LOAD	EXCITATION TYPE	ENCLOSURE	NOISE LEVEL	MODEL NUMBER	FULL LOAD FUEL CONSUMPTION	PRIMARY REGULATOR	PCC EQUIPMENT PAD (L X W)
MTU	50 kW	NOTE 2	PMG	LEVEL 2 75 dBA @ 23 FEET	8V0078 GS50	659 SCFH	7"-11" WC	8'-2" X 4'-4"

**NOTES:**

- CONTRACTOR SHALL PERFORM A COMPLETE OPERATIONAL TEST OF ALL EQUIPMENT (ATS, GENERATOR, ETC.) IN THE PRESENCE OF THE VILLAGE.
- THE SPECIFIED GENERATOR IS SIZED TO SUPPORT THE PUMP STATION MISCELLANEOUS LOAD (5 kW), (1) 5 HP LOW FLOW SUBMERSIBLE PUMP (ACROSS-THE-LINE), AND (1) 15 HP HIGH FLOW SUBMERSIBLE PUMP (ACROSS-THE-LINE).

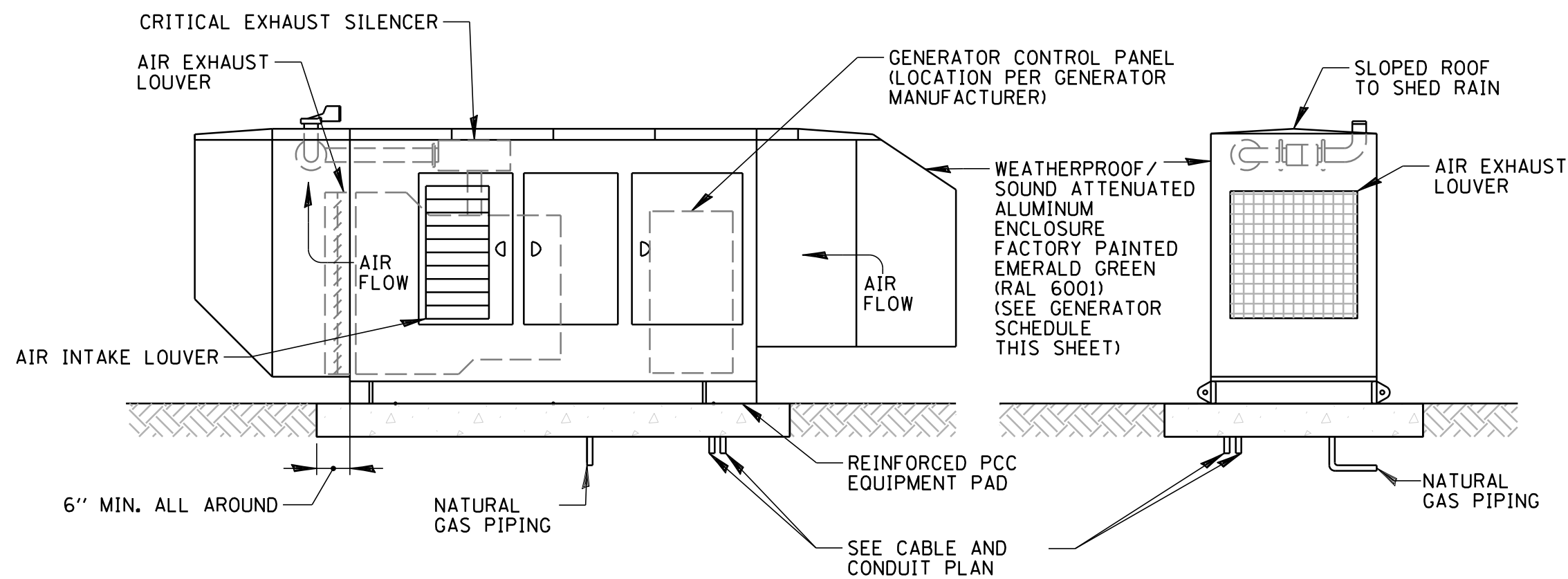


**NOTES:**

- ALL NATURAL GAS FUEL PIPING REQUIRED FOR THE INSTALLATION OF THE WORK SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF NFPA 58.
- ALL PIPING, TUBING, FITTING AND VALVES USED IN THE PIPING INSTALLATION SHALL BE SUITABLE FOR 125 PSIG WORKING PRESSURE.
- CAST IRON PIPING AND FITTINGS ARE NOT PERMITTED.
- FLEXIBLE CONNECTORS SHALL BE USED TO ISOLATE HARMFUL VIBRATIONS FROM THE PIPING INSTALLATION.
- THE PIPING INSTALLATION SHALL BE TESTED AFTER ASSEMBLY AND PROVEN FREE FROM LEAKS. FLAME TESTING FOR LEAKS IS NOT PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COORDINATION REQUIRED TO OBTAIN GAS SERVICE FROM NICOR GAS AND CONNECTION TO THE PROPOSED GAS MAIN INCLUDING ASSOCIATED METERING DEVICES, ADDITIONAL REGULATORS, FITTINGS, PIPING, ETC.
- ALL ABOVE GRADE PIPING/FITTINGS/VALVES SHALL BE PRIMED AND PAINTED USING A RUST RESISTANT COATING AS DIRECTED BY VILLAGE. USE STAINLESS STEEL UNISTRUT STANDOFFS WITH STAINLESS STEEL HARDWARE AS NECESSARY. NO GAS PIPING SHALL BE EMBEDDED IN CONCRETE.
- CONTRACTOR SHALL PERFORM A COMPLETE OPERATIONAL TEST OF ALL EQUIPMENT (ATS, GENERATOR, ETC.) IN THE PRESENCE OF THE VILLAGE.
- CONTRACTOR SHALL COORDINATE GAS METER LOCATION AND SETBACK REQUIREMENTS WITH NICOR GAS NEW BUSINESS COORDINATOR. THE FINAL GAS METER LOCATION SHALL BE APPROVED BY NICOR GAS AND SHALL COMPLY WITH ALL NICOR GAS SPECIFICATIONS, CODES, AND STANDARD PRACTICES. ONCE APPROVED, THE EXACT PROPOSED METER LOCATION SHALL BE CLEARLY MARKED WITH STAKES.

**NATURAL GAS PIPING DETAIL**

N.T.S.

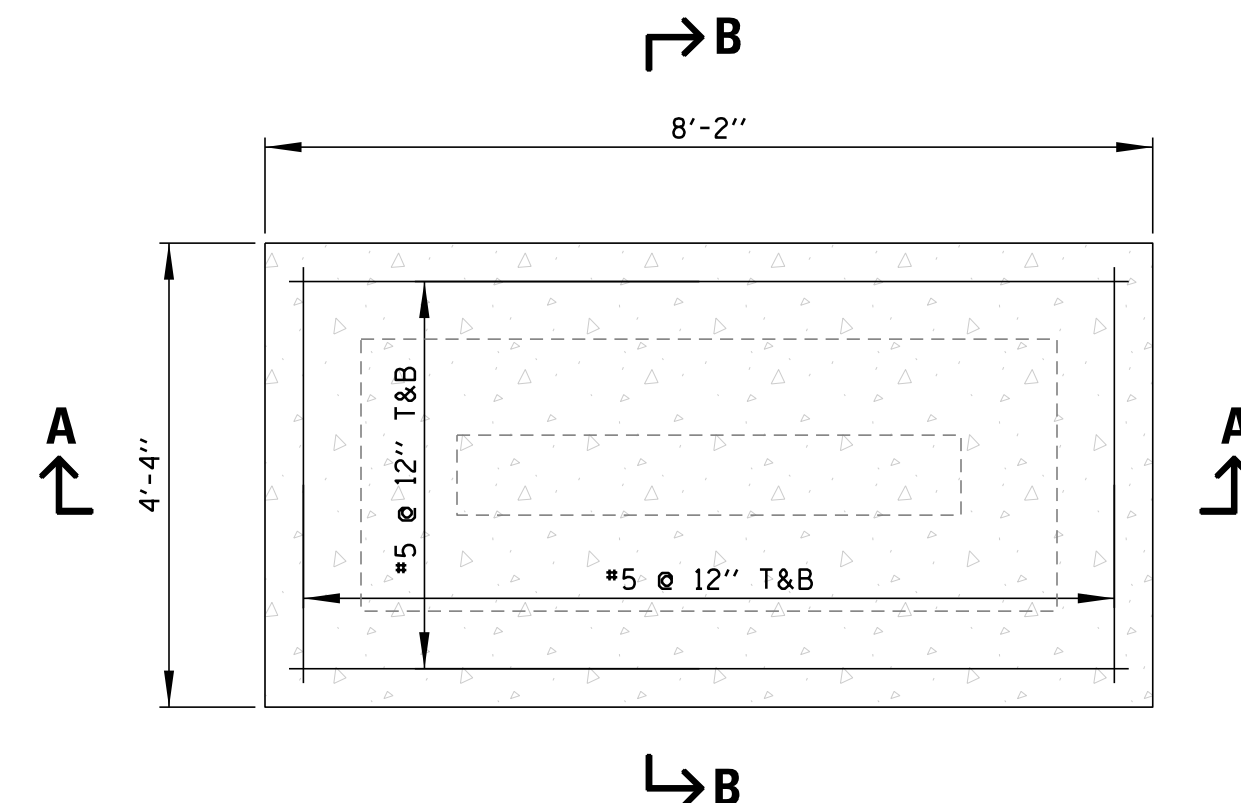
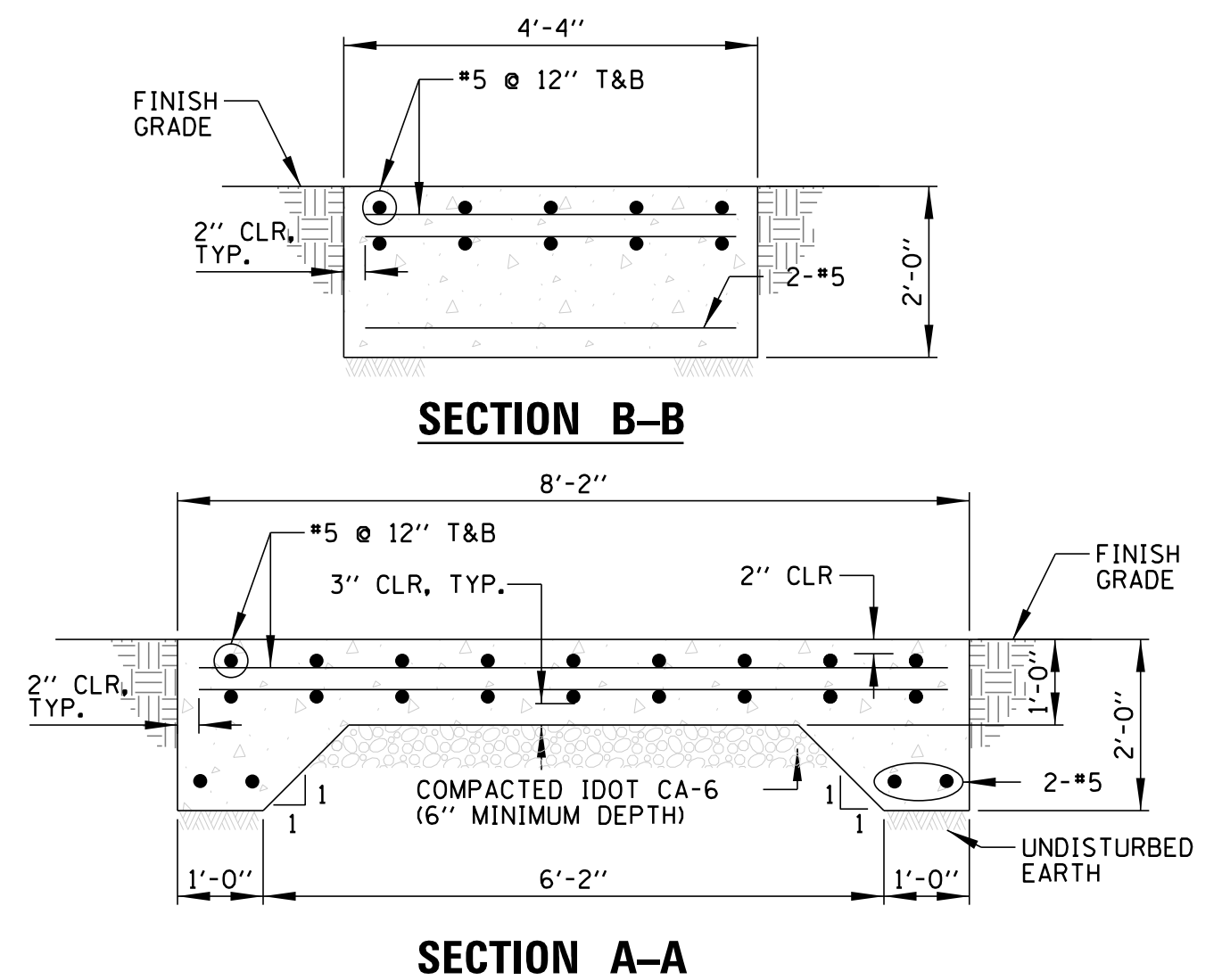


**NOTES:**

- NATURAL GAS ENGINE GENERATOR SHALL BE FULLY WINTERIZED, PROVIDED WITH ALL ACCESSORIES REQUIRED FOR COLD WEATHER STARTING, RATED AS SHOWN IN GENERATOR SCHEDULE FOR CONTINUOUS STANDBY DUTY WHILE OPERATING AT AN AMBIENT TEMPERATURE RANGE BETWEEN -20°F AND 104°F. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.
- ENCLOSURE SHALL HAVE LOCKABLE/HINGED ACCESS PANELS ALL AROUND, AS REQUIRED.
- PROVIDE CLOSURE PLATES ALL AROUND UNIT FRAME/BASE TO PREVENT BIRD/RODENT ENTRY.
- DIMENSIONS (IF SHOWN) ARE MAXIMUM ANTICIPATED FOR STANDBY GENERATOR AND RELATED EQUIPMENT PAD. IF LARGER DIMENSIONS ARE REQUIRED, DUE TO THE EQUIPMENT OFFERED BY CONTRACTOR THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL COORDINATION AND CHANGES RESULTING IN NO ADDITIONAL COST TO THE OWNER. IF A SMALLER EQUIPMENT PAD IS PROPOSED BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COORDINATION; AND THE PROPOSED DIMENSIONS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.
- THE UNIT ENCLOSURE SHALL BE DESIGNED AS COMPACT AS PRACTICAL ALLOWING FOR ADEQUATE SPACE FOR MAINTENANCE WITHIN ENCLOSURE AND IN ACCORDANCE WITH LIMITING DIMENSIONS SHOWN ON THE DRAWINGS AND AS OTHERWISE REQUIRED BY LOCAL CODES. ENCLOSURE ACCESS SHALL ALLOW EASY ACCESS WITHOUT THE USE OF PORTABLE LIFTING EQUIPMENT.
- SEE GENERATOR SCHEDULE FOR MAXIMUM AVERAGE NOISE LEVELS FOR STANDBY GENERATOR WHEN FULLY LOADED. GENERATOR MANUFACTURER SHALL PERFORM SOUND LEVEL MEASUREMENTS IN THE PRESENCE OF OWNER OR OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THE GENERATOR MANUFACTURER, VILLAGE, AND OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL PERFORM A COMPLETE OPERATIONAL TEST OF ALL EQUIPMENT (ATS, GENERATOR, ETC.) IN THE PRESENCE OF THE VILLAGE.

**NATURAL GAS STANDBY GENERATOR TYPICAL ARRANGEMENT**

N.T.S.



**NOTES:**

- THIS DETAIL IS GENERIC AND NOT INTENDED TO SHOW ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THIS DETAIL IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED EQUIPMENT LAYOUT PRIOR TO CONSTRUCTION.
- NATURAL GAS STANDBY GENERATOR REINFORCED PCC EQUIPMENT PAD SHALL BE CONSTRUCTED WITH IDOT CLASS S1 CONCRETE.

**NATURAL GAS STANDBY GENERATOR REINFORCED PCC EQUIPMENT PAD**

N.T.S.

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:

**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

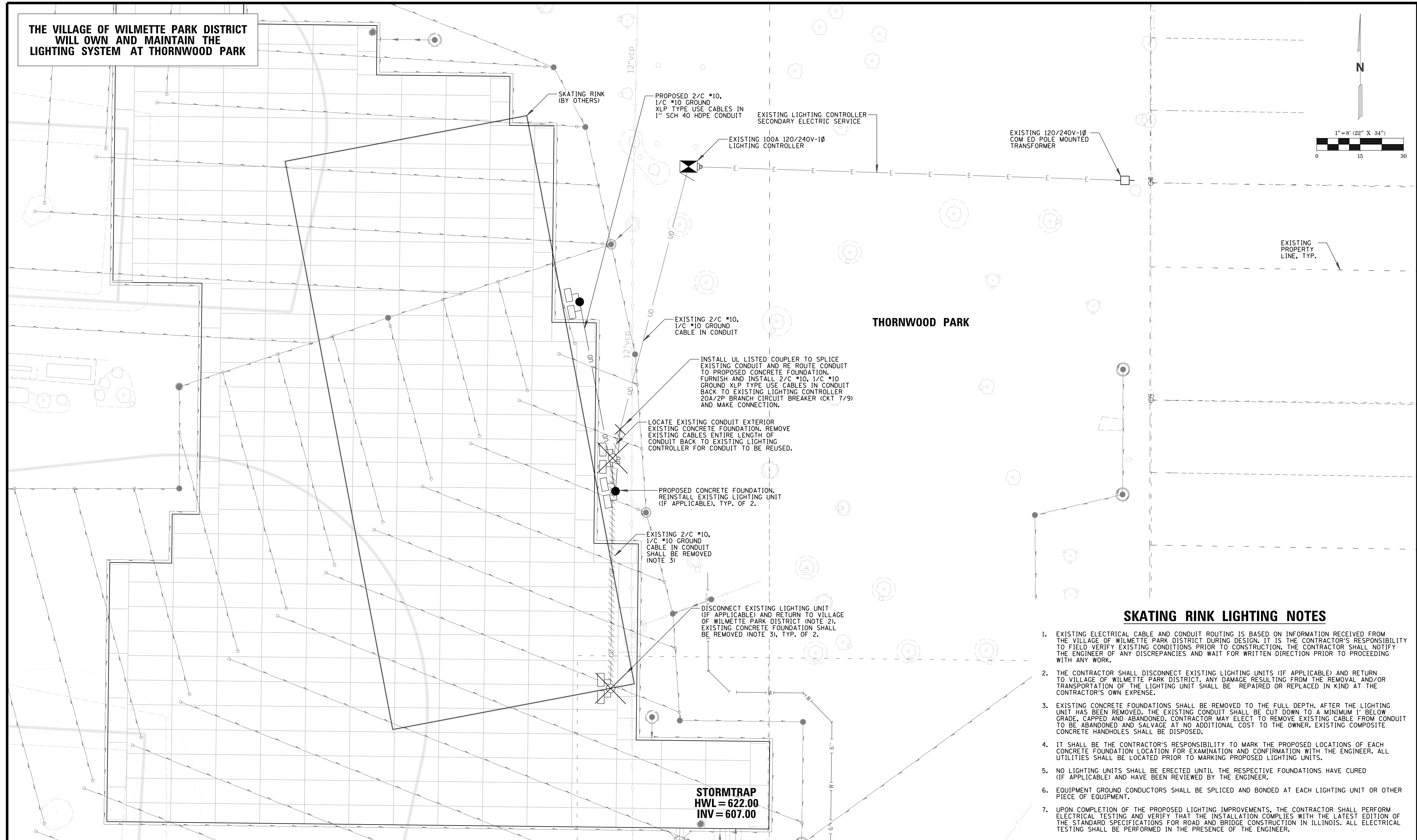
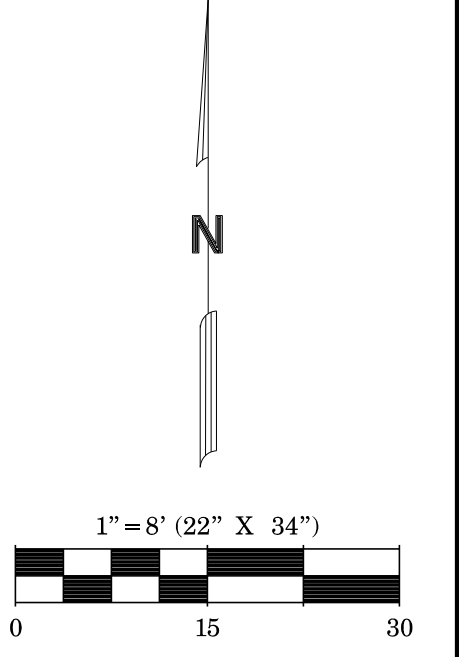
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TITLE:

**WSNSP CONTRACT #3  
 STORMWATER PUMP STATION  
 GENERATOR DETAILS**

PROJ. NO. 180245.00004  
 DATE: 10/8/2021  
 SHEET 76 OF 207  
 DRAWING NO.  
**76**

**THE VILLAGE OF WILMETTE PARK DISTRICT  
WILL OWN AND MAINTAIN THE  
LIGHTING SYSTEM AT THORNWOOD PARK**



**THORNWOOD PARK**

EXISTING PROPERTY LINE, TYP.

**SKATING RINK LIGHTING NOTES**

1. EXISTING ELECTRICAL CABLE AND CONDUIT ROUTING IS BASED ON INFORMATION RECEIVED FROM THE VILLAGE OF WILMETTE PARK DISTRICT DURING DESIGN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES AND WAIT FOR WRITTEN DIRECTION PRIOR TO PROCEEDING WITH ANY WORK.
2. THE CONTRACTOR SHALL DISCONNECT EXISTING LIGHTING UNITS (IF APPLICABLE) AND RETURN TO VILLAGE OF WILMETTE PARK DISTRICT. ANY DAMAGE RESULTING FROM THE REMOVAL AND/OR TRANSPORTATION OF THE LIGHTING UNIT SHALL BE REPAIRED OR REPLACED IN KIND AT THE CONTRACTOR'S OWN EXPENSE.
3. EXISTING CONCRETE FOUNDATIONS SHALL BE REMOVED TO THE FULL DEPTH. AFTER THE LIGHTING UNIT HAS BEEN REMOVED, THE EXISTING CONDUIT SHALL BE CUT DOWN TO A MINIMUM 1' BELOW GRADE, CAPPED AND ABANDONED. CONTRACTOR MAY ELECT TO REMOVE EXISTING CABLE FROM CONDUIT TO BE ABANDONED AND SALVAGE AT NO ADDITIONAL COST TO THE OWNER. EXISTING COMPOSITE CONCRETE HANDHOLES SHALL BE DISPOSED.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF EACH CONCRETE FOUNDATION LOCATION FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER. ALL UTILITIES SHALL BE LOCATED PRIOR TO MARKING PROPOSED LIGHTING UNITS.
5. NO LIGHTING UNITS SHALL BE ERRECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED (IF APPLICABLE) AND HAVE BEEN REVIEWED BY THE ENGINEER.
6. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHTING UNIT OR OTHER PIECE OF EQUIPMENT.
7. UPON COMPLETION OF THE PROPOSED LIGHTING IMPROVEMENTS, THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLATION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS. ALL ELECTRICAL TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.

**STORMTRAP  
HWL = 622.00  
INV = 607.00**

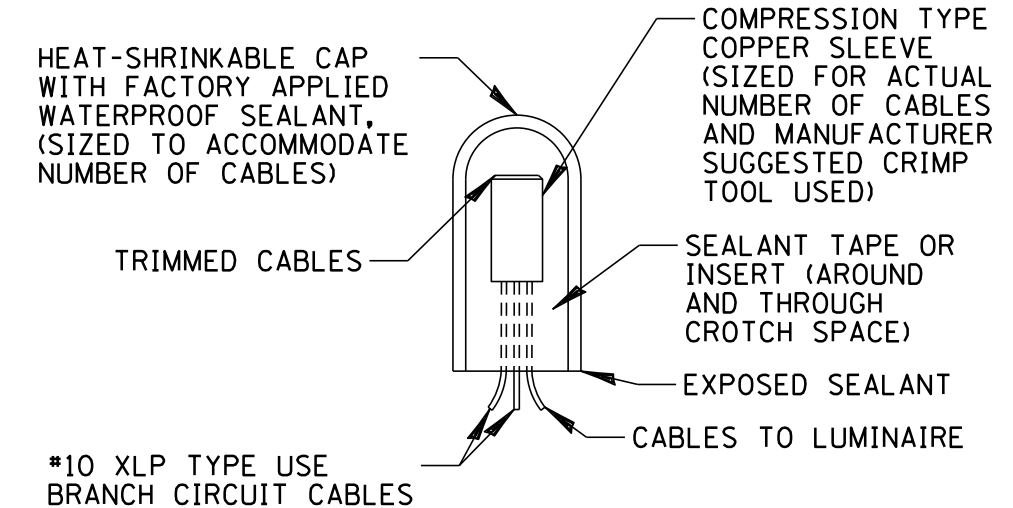
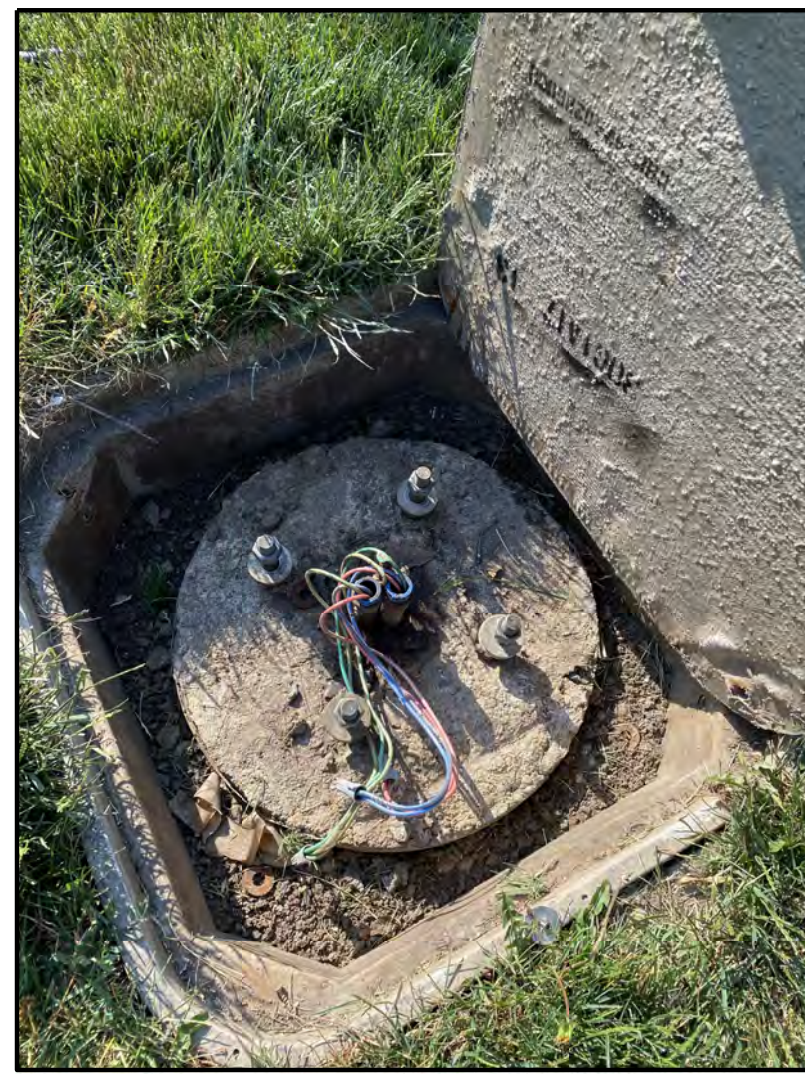
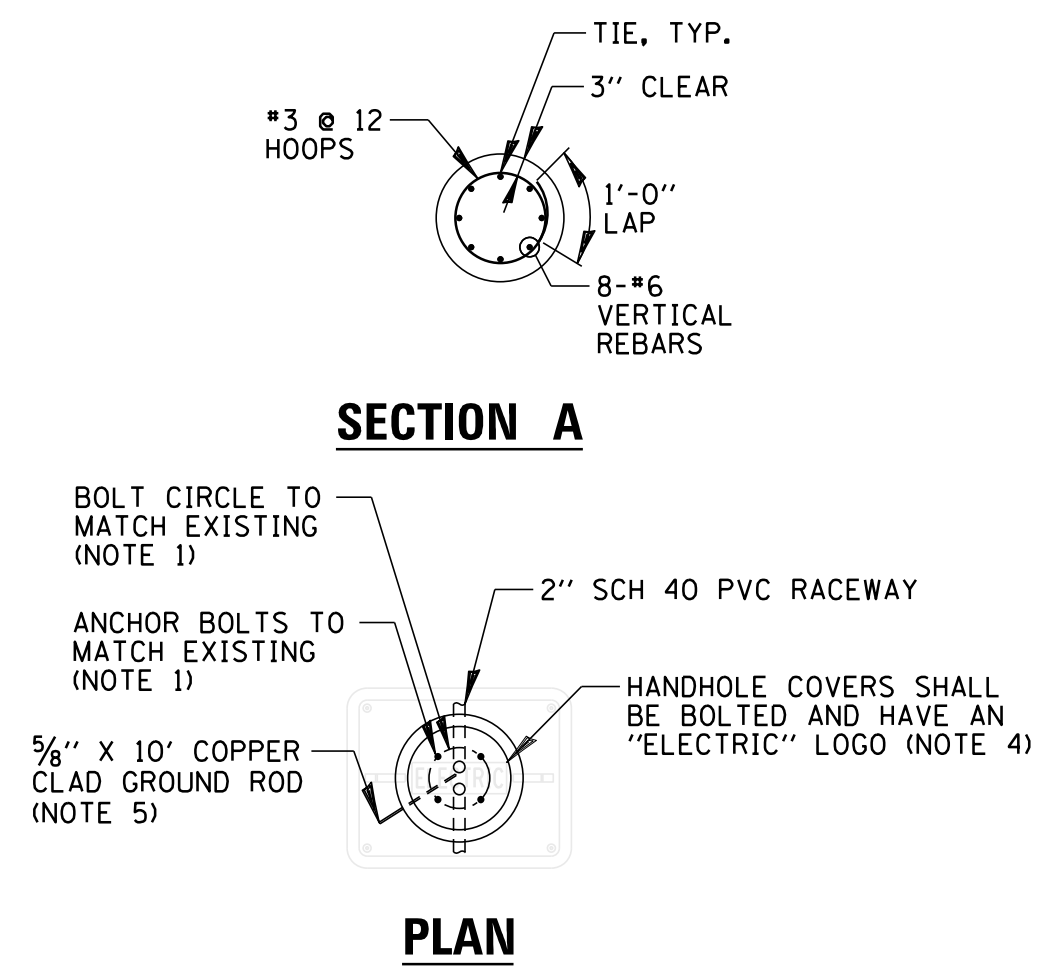
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

CLIENT: **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

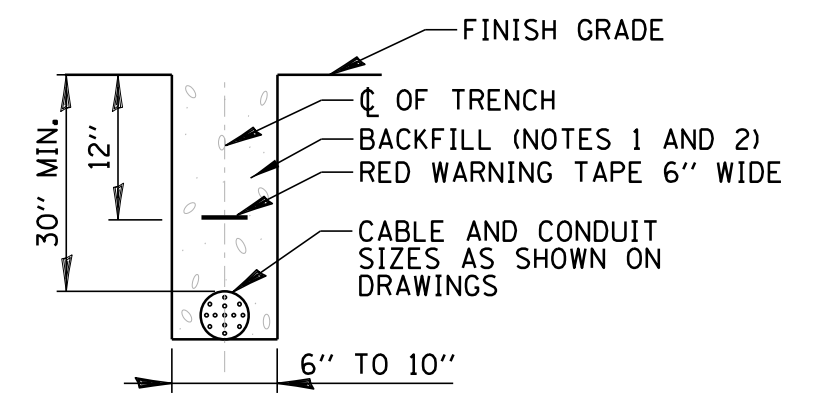
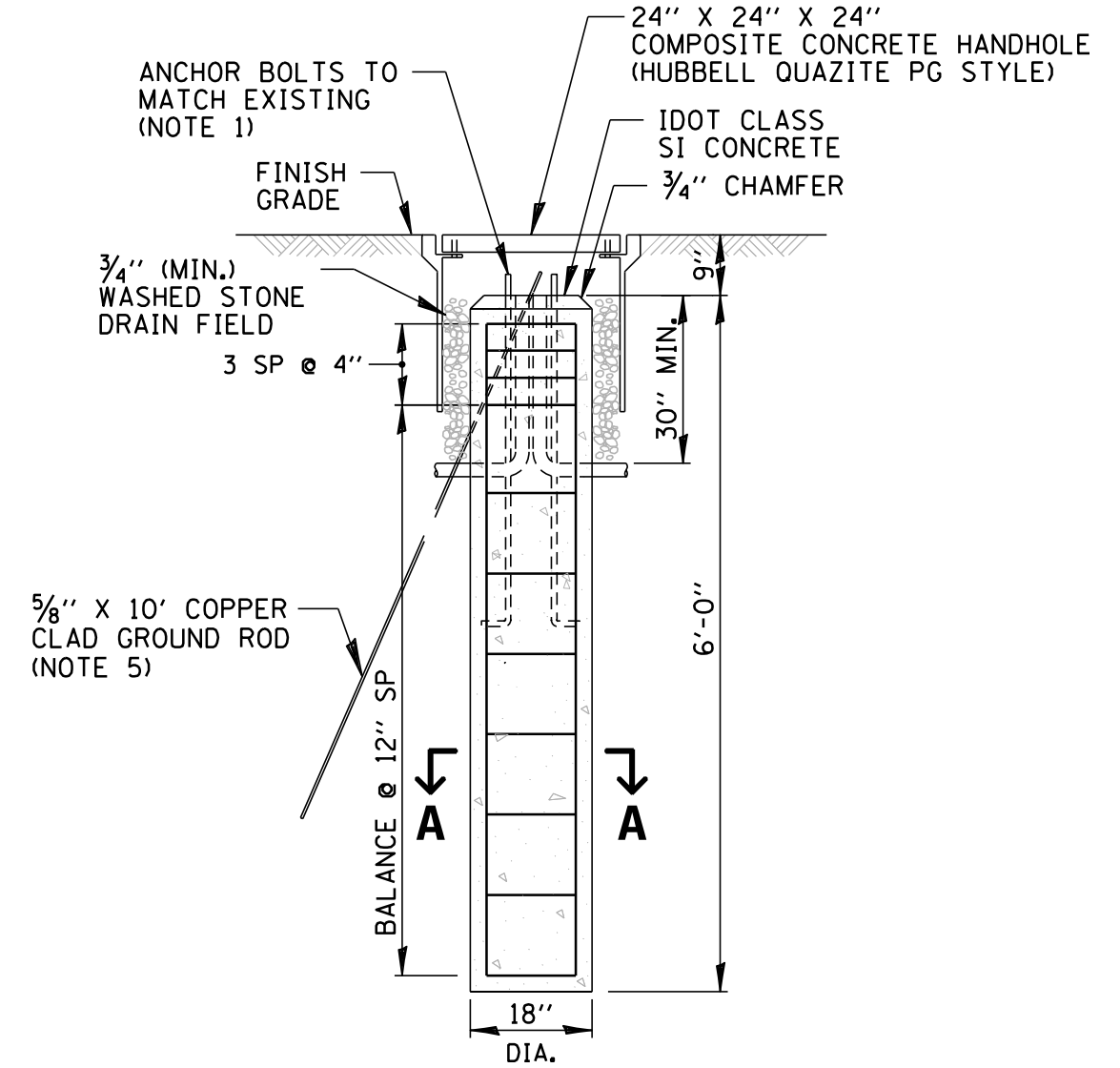
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TITLE: **WSNSP CONTRACT #3  
SKATING RINK LIGHTING PLAN**

PROJ. NO. 180245.00004  
DATE: 10/8/2021  
SHEET 77 OF 207  
DRAWING NO. **77**



**ELECTRIC CABLE SPLICE DETAIL**  
N.T.S.

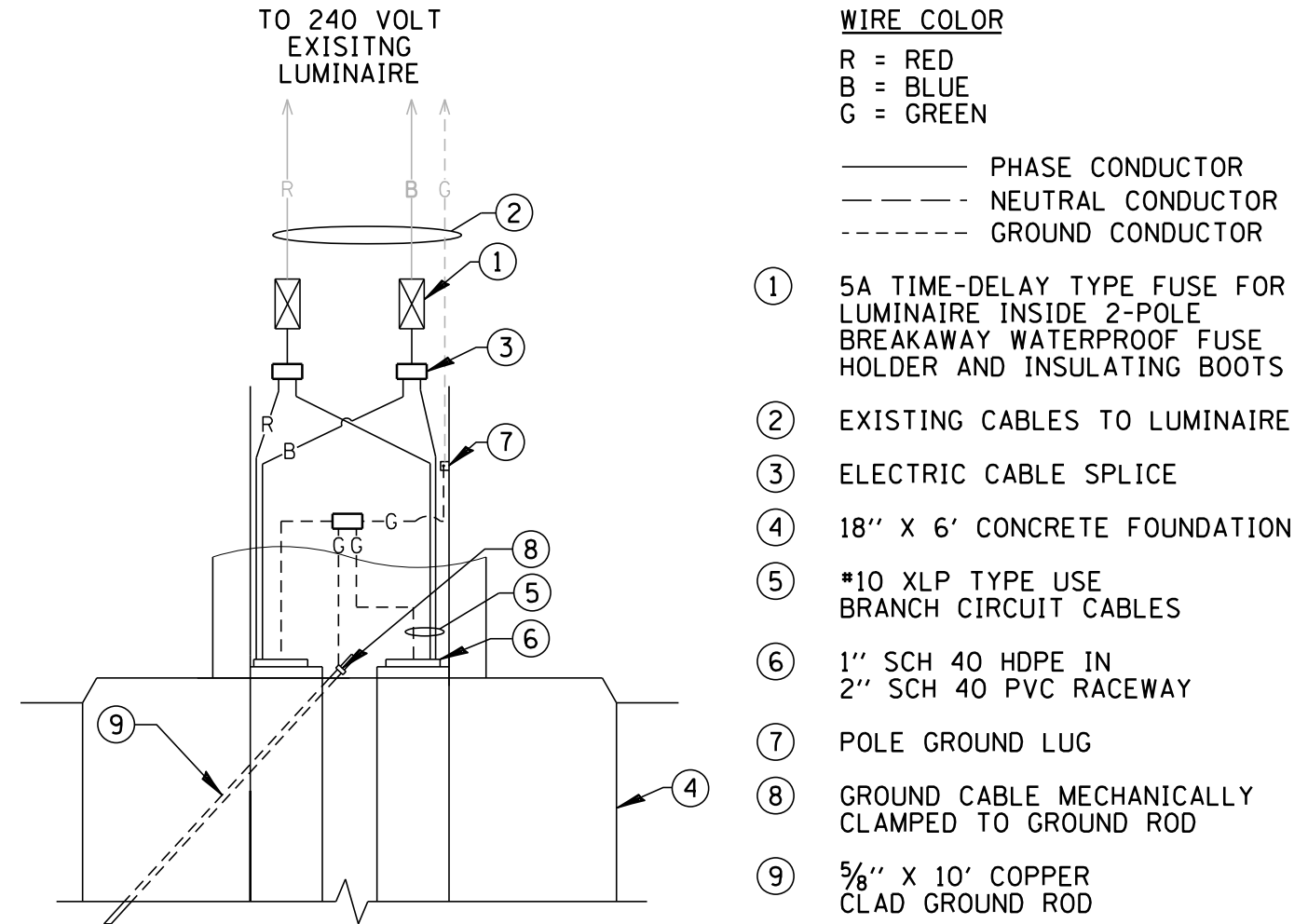


- NOTES:
1. BACKFILL MATERIAL SHALL BE FREE OF BRICK, ROCK, OR ANY MATERIAL THAT COULD DAMAGE THE CONDUIT.
  2. BACKFILL MATERIAL FOR TRENCHES WHERE THE INNER EDGE OF THE TRENCH IS WITHIN 2 FT OF THE EDGE OF THE PROPOSED PAVEMENT, CURB, GUTTER, CURB AND GUTTER, STABILIZED SHOULDER, OR SIDEWALK SHALL BE TRENCH BACKFILL IN ACCORDANCE WITH THE PROVISIONS OF SECTION 208 OF THE STANDARD SPECIFICATIONS.

**TYPICAL ELECTRICAL CONDUIT INSTALLATION**  
N.T.S.

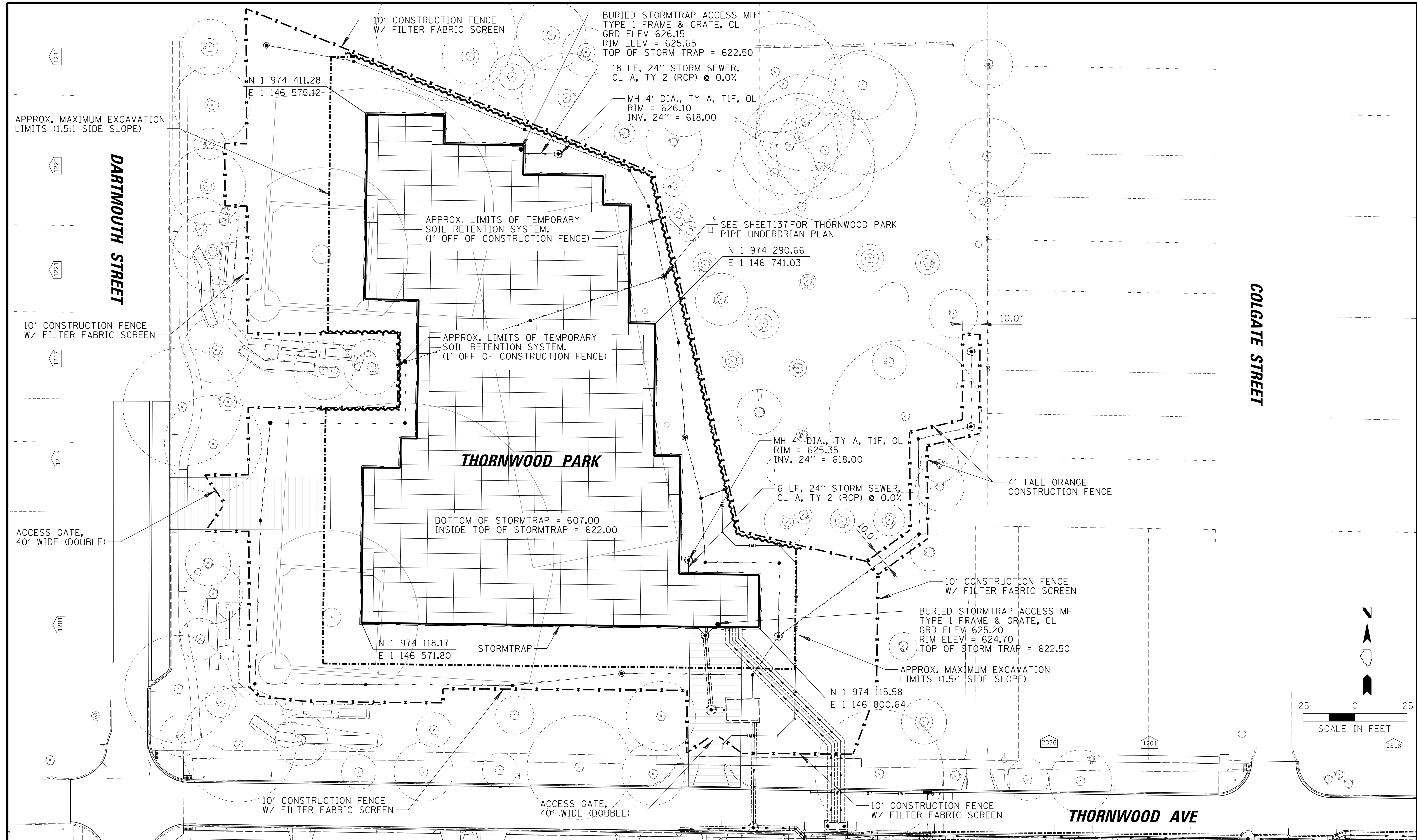
- NOTES:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
  2. COMPOSITE CONCRETE HANDHOLE AND LID SHALL BE GREEN. LOCATIONS FOR ALL HANDHOLES TO BE APPROVED BY OWNER PRIOR TO INSTALLATION.
  3. BOX AND LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS, AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTERN UNDERGROUND COMMITTEE GUIDE 3.6.
  4. THE CONTRACTOR SHALL FURNISH TWO COVERS TO THE VILLAGE OF WILMETTE PARK DISTRICT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DIMENSIONS OF EXISTING LIGHTING UNIT POLE AND CUT ONE COVER ACCORDINGLY SO THAT IT MAY BE INSTALLED WHEN SKATING RINK IS OPERATIONAL.
  5. GROUND ROD SHALL BE CAST INTO CONCRETE FOUNDATION WITH 8' IN CONTACT WITH SOIL.
  6. FOUNDATIONS SHALL BE VIBRATED IN ACCORDANCE WITH IDOT STANDARD PRACTICES.

**CONCRETE FOUNDATION DETAIL**  
N.T.S.



**TYPICAL HANDHOLE WIRING DIAGRAM DETAIL**  
N.T.S.

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
				Default



APPROX. MAXIMUM EXCAVATION LIMITS (1.5:1 SIDE SLOPE)

DARTMOUTH STREET

COLGATE STREET

**THORNWOOD PARK**

**THORNWOOD AVENUE**

10' CONSTRUCTION FENCE W/ FILTER FABRIC SCREEN

ACCESS GATE, 40' WIDE (DOUBLE)

10' CONSTRUCTION FENCE W/ FILTER FABRIC SCREEN

ACCESS GATE, 40' WIDE (DOUBLE)

10' CONSTRUCTION FENCE W/ FILTER FABRIC SCREEN

4' TALL ORANGE CONSTRUCTION FENCE

APPROX. LIMITS OF TEMPORARY SOIL RETENTION SYSTEM. (1' OFF OF CONSTRUCTION FENCE)

APPROX. LIMITS OF TEMPORARY SOIL RETENTION SYSTEM. (1' OFF OF CONSTRUCTION FENCE)

BOTTOM OF STORMTRAP = 607.00  
INSIDE TOP OF STORMTRAP = 622.00

STORMTRAP

BURIED STORMTRAP ACCESS MH  
TYPE 1 FRAME & GRATE, CL  
GRD ELEV 626.15  
RIM ELEV = 625.65  
TOP OF STORM TRAP = 622.50

18 LF, 24" STORM SEWER,  
CL A, TY 2 (RCP) @ 0.0%

MH 4' DIA., TY A, T1F, OL  
RIM = 626.10  
INV. 24" = 618.00

SEE SHEET 137 FOR THORNWOOD PARK  
PIPE UNDERDRIAN PLAN

N 1 974 290.66  
E 1 146 741.03

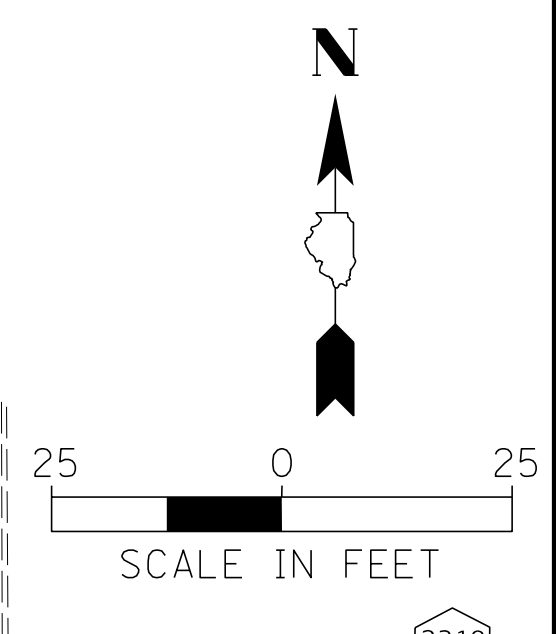
MH 4' DIA., TY A, T1F, OL  
RIM = 625.35  
INV. 24" = 618.00

6 LF, 24" STORM SEWER,  
CL A, TY 2 (RCP) @ 0.0%

BURIED STORMTRAP ACCESS MH  
TYPE 1 FRAME & GRATE, CL  
GRD ELEV 625.20  
RIM ELEV = 624.70  
TOP OF STORM TRAP = 622.50

APPROX. MAXIMUM EXCAVATION  
LIMITS (1.5:1 SIDE SLOPE)

N 1 974 115.58  
E 1 146 800.64



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

**BAXTER & WOODMAN**  
Consulting Engineers

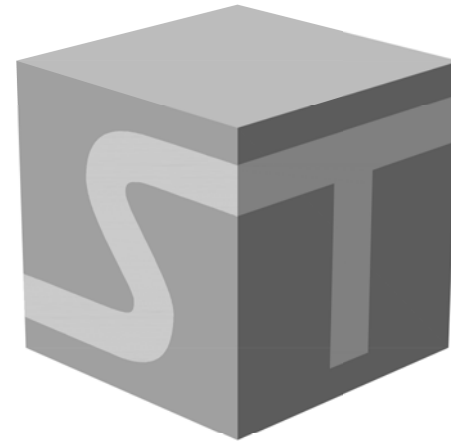
CLIENT:  **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

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DWN.	MAK
CHKD.	LMF
SCALE:	25'
PLOT DATE:	10/8/2021
CAD USER:	mkoonce
MODEL:	Default

TITLE: **WSNSP CONTRACT #3  
THORNWOOD PARK  
UNDERGROUND STORAGE**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 79 OF 207  
DRAWING NO. **79**



# StormTrap®

MODULAR CONCRETE  
STORMWATER MANAGEMENT

**STORMTRAP**

BY SIGNING THIS DOCUMENT YOU AGREE WITH THE PIPE INVERT ELEVATIONS, ACCESS OPENING SIZES AND LOCATIONS, PIPE MATERIAL, PIPE DIAMETERS, AND PIPE LOCATIONS OF THE DRAWINGS DATED 7/26/2021. IN ADDITION YOU AGREE WITH THE GENERAL LAYOUT OF THE BASIN AND BASIN HEIGHT, MIN AND MAX COVER OVERTOP THE SYSTEM, DELIVERY NOTES AND ALL SPECIFIC DESIGN ELEMENTS CONTAINED HEREIN. THE STRUCTURAL INTEGRITY OF THE SYSTEM IS THE RESPONSIBILITY OF STORMTRAP.

GENERAL CONTRACTOR: \_\_\_\_\_ DATE: \_\_\_/\_\_\_/\_\_\_\_  
 APPROVED:  APPROVED WITH CHANGES:  REJECTED:   
 CIVIL ENGINEER: \_\_\_\_\_ DATE: \_\_\_/\_\_\_/\_\_\_\_  
 APPROVED:  APPROVED WITH CHANGES:  REJECTED:   
 INSTALLING CONTRACTOR: \_\_\_\_\_ DATE: \_\_\_/\_\_\_/\_\_\_\_  
 APPROVED:  APPROVED WITH CHANGES:  REJECTED:

SHEET INDEX	
PAGE	DESCRIPTION
0.0	COVER SHEET
1.0	DOUBLETRAP DESIGN CRITERIA
2.0	DOUBLETRAP SYSTEM LAYOUT
3.0	DOUBLETRAP INSTALLATION SPECIFICATIONS
3.1	DOUBLETRAP INSTALLATION SPECIFICATIONS
4.0	DOUBLETRAP BACKFILL SPECIFICATIONS
5.0	RECOMMENDED PIPE / ACCESS OPENING SPECIFICATIONS
6.0	DOUBLETRAP MODULE TYPES

**STORMTRAP CONTACT INFORMATION**

STORMTRAP SUPPLIER: STORMTRAP  
 CONTACT NAME: KYLE MCCREADY  
 CELL PHONE: 815-546-9256  
 SALES EMAIL: KMCCREADY@STORMTRAP.COM

## StormTrap®

PATENTS LISTED AT: [\[HTTP://STORMTRAP.COM/PATENT\]](http://stormtrap.com/patent)

1287 WINDHAM PARKWAY  
ROMEVILLE, IL 60446  
P:815-941-4549 / F:331-318-5347

### ENGINEER INFORMATION:

CHRISTOPHER B BURKE  
ENGINEERING LTD  
9575 W HIGGINS RD  
STE 600  
ROSEMONT, IL 60018

### PROJECT INFORMATION:

THORNWOOD PARK  
  
WILMETTE, IL

### CURRENT ISSUE DATE:

7/26/2021

### ISSUED FOR:

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4	4/13/2021	PRELIMINARY	JPH

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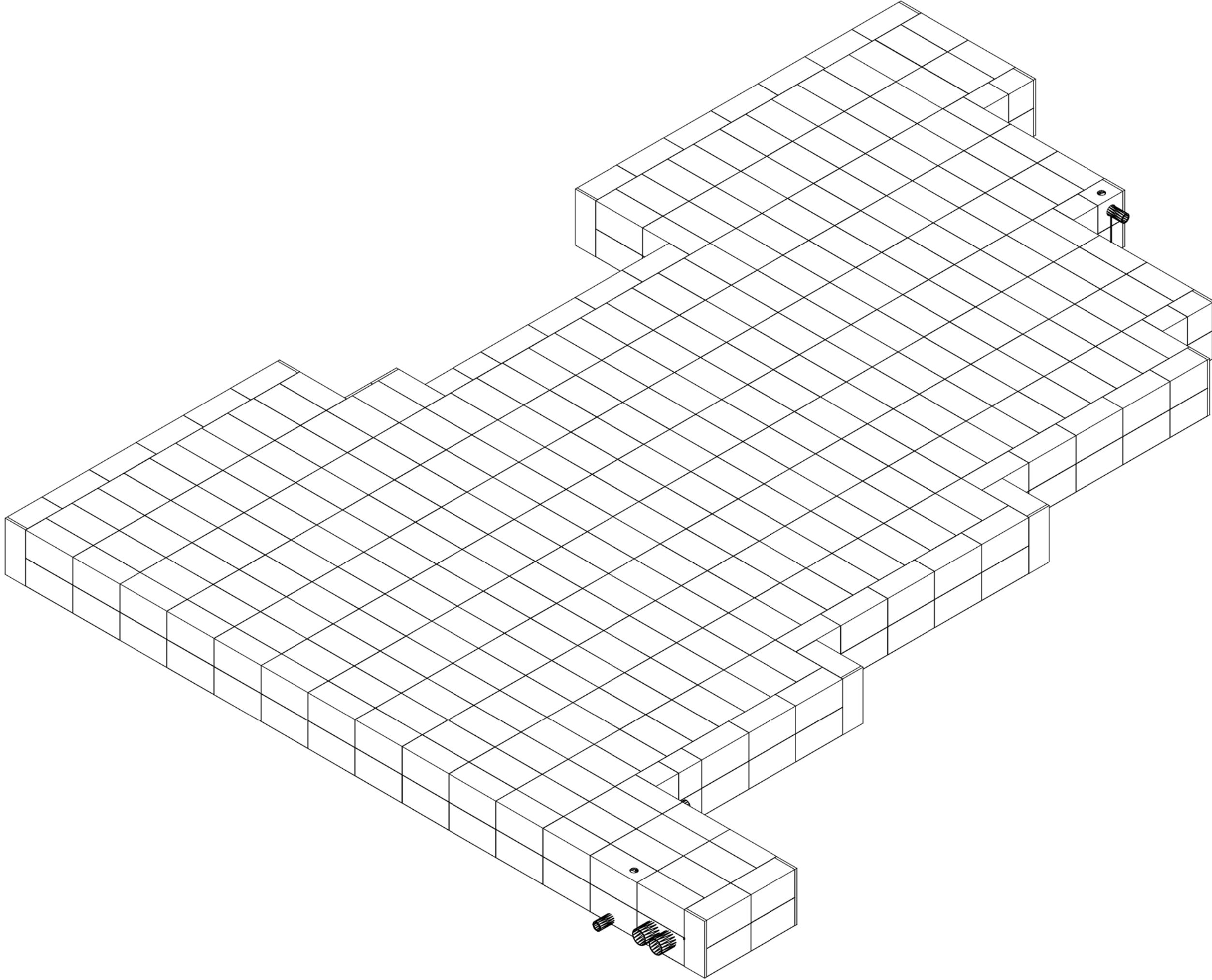
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### SHEET TITLE:

COVER SHEET

### SHEET NUMBER:

0.0



## THORNWOOD PARK WILMETTE, IL

**CB** CHRISTOPHER B. BURKE ENGINEERING, LTD.  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
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NO.	DATE	REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	Default

TITLE: **WSNSP CONTRACT #3  
THORNWOOD PARK  
UNDERGROUND STORAGE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 80 OF 207  
 DRAWING NO. **80**



**STRUCTURAL DESIGN LOADING CRITERIA**

LIVE LOADING: **AASHTO HS-20 HIGHWAY LOADING**  
 GROUND WATER TABLE: BELOW INVERT OF SYSTEM  
 SOIL BEARING PRESSURE: 2500PSF  
 SOIL DENSITY: 120 PCF  
 EQUIVALENT UNSATURATED  
 LATERAL ACTIVE EARTH PRESSURE: 35 PSF / FT.  
 EQUIVALENT SATURATED  
 LATERAL ACTIVE EARTH PRESSURE: 80 PSF/FT. (IF WATER TABLE PRESENT)  
 APPLICABLE CODES: ASTM C857  
 ACI-318  
 BACKFILL TYPE: SEE SHEET 4.0 FOR BACKFILL OPTIONS

**STORMTRAP SYSTEM INFORMATION**

WATER STORAGE PROV: 606179.36 CUBIC FEET  
 UNIT HEADROOM: 15'-0" DOUBLETRAP  
 UNIT QUANTITY: 716 TOTAL PIECES

**SITE SPECIFIC DESIGN CRITERIA**

1. STORMTRAP UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS AND SIZE OF OPENINGS.
2. COVER RANGE: MIN. 2.00' MAX. 4.70' CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE REQUIRED TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.
4. FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE BELOW INVERT OF SYSTEM IF WATER TABLE IS DIFFERENT THAN ASSUMED, CONTACT STORMTRAP.
5. **SYSTEM DESIGN MAY ALLOW FOR INCIDENTAL LEAKAGE AND WILL NOT BE SUBJECT TO LEAKAGE TESTING.**

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WILMETTE, IL

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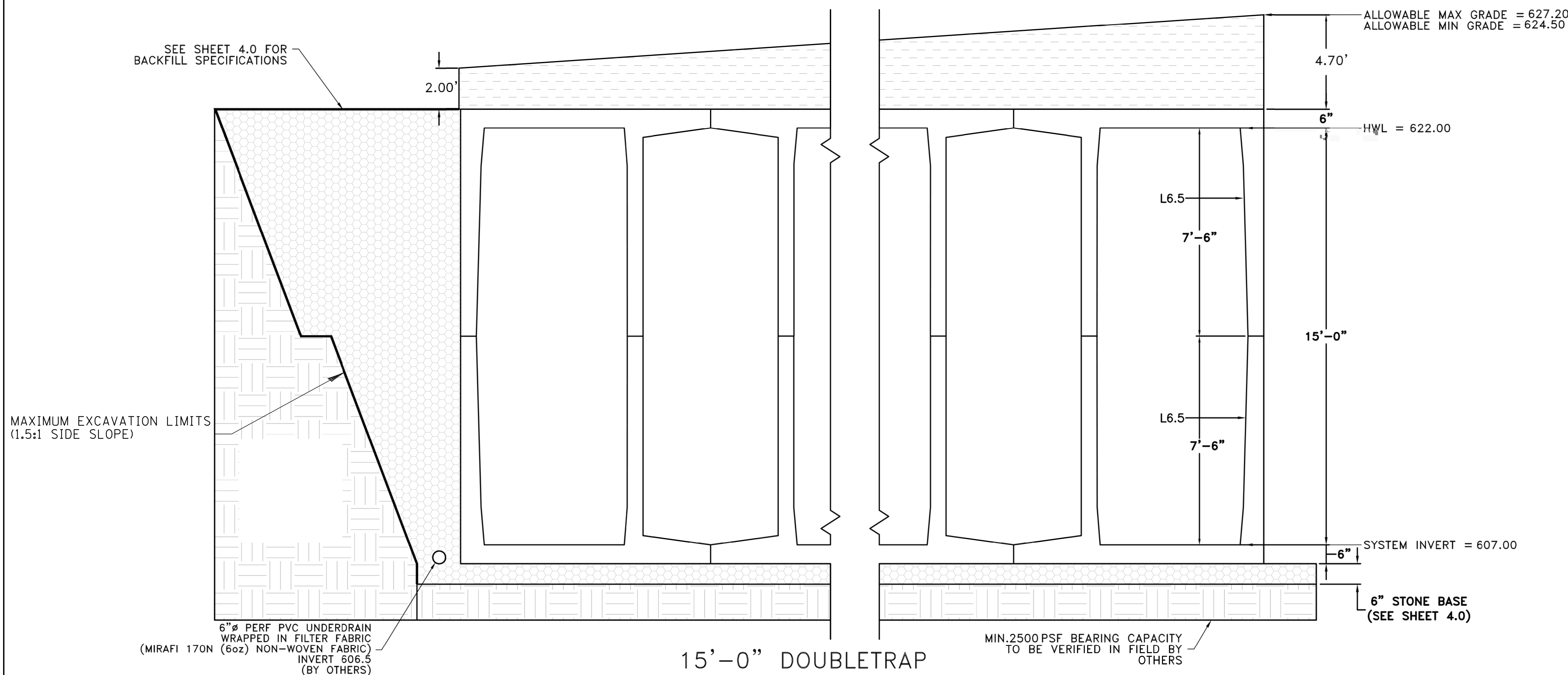
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**SHEET TITLE:**

DOUBLETRAP  
 DESIGN  
 CRITERIA

**SHEET NUMBER:**

1.0



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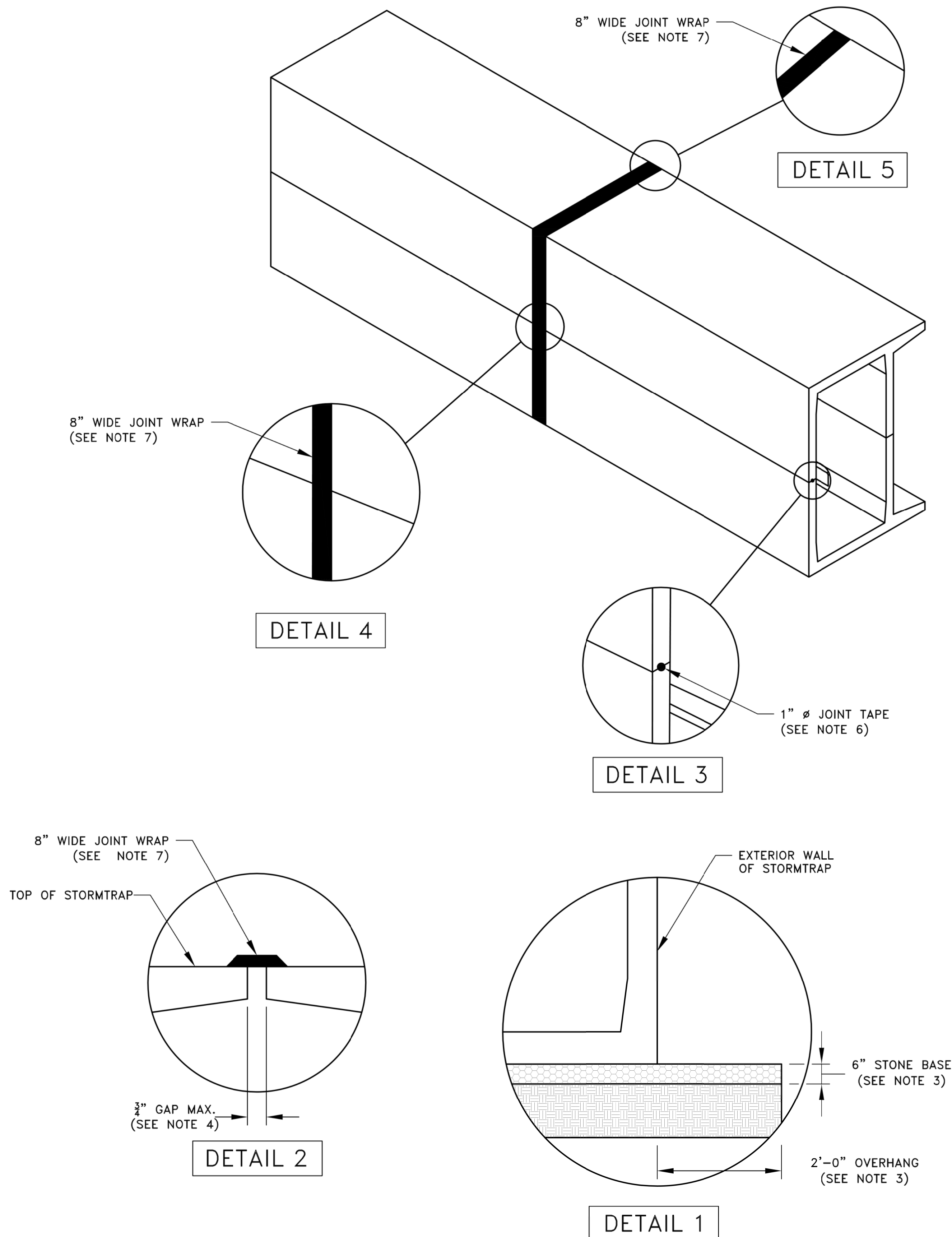
TITLE: **WSNSP CONTRACT #3  
 THORNWOOD PARK  
 UNDERGROUND STORAGE**

PROJ. NO. 180245.0004
DATE: 10/8/2021
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DRAWING NO. <b>81</b>



# STORMTRAP INSTALLATION SPECIFICATIONS

- STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891, STANDARD FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES, THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS SHALL APPLY:
- IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ENSURE THAT PROPER/ADEQUATE EQUIPMENT IS USED TO SET/INSTALL THE MODULES.
- STORMTRAP MODULES CAN BE PLACED ON A LEVEL, 6" FOUNDATION OF 3/4" AGGREGATE EXTENDING 2'-0" PAST THE OUTSIDE OF THE SYSTEM (SEE DETAIL 1) AND SHALL BE PLACED ON PROPERLY COMPACTED SOILS (SEE SHEET 1.0 FOR SOIL BEARING CAPACITY REQUIREMENTS), AND IN ACCORDANCE WITH ASTM C891 STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST UTILITY STRUCTURES.
- THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 3/4" (SEE DETAIL 2). IF THE SPACE EXCEEDS 3/4", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.
- STORMTRAP MODULES ARE NOT WATERTIGHT. IF A WATERTIGHT SOLUTION IS REQUIRED, CONTACT STORMTRAP FOR RECOMMENDATIONS. THE WATERTIGHT APPLICATION IS TO BE PROVIDED AND IMPLEMENTED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE SELECTED WATERTIGHT SOLUTION PERFORMS AS SPECIFIED BY THE MANUFACTURER.
- THE PERIMETER HORIZONTAL JOINT BETWEEN THE TOP AND BASE LEG CONNECTION OF THE STORMTRAP MODULES SHALL BE SEALED WITH PREFORMED MASTIC JOINT TAPE ACCORDING TO ASTM C891, 8.8 AND 8.12. (SEE DETAIL 3). THE MASTIC JOINT TAPE DOES NOT PROVIDE A WATERTIGHT SEAL.
- ALL EXTERIOR JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH 8" WIDE PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN, BONDED TO A WOVEN, HIGHLY PUNCTURE RESISTANT POLYMER WRAP, CONFORMING TO ASTM C891 AND SHALL BE INTEGRATED WITH PRIMER SEALANT AS APPROVED BY STORMTRAP (SEE DETAILS 3 & 4). THE JOINT WRAP DOES NOT PROVIDE A WATERTIGHT SEAL. THE SOLE PURPOSE OF THE JOINT WRAP IS TO PROVIDE A SILT AND SOIL TIGHT SYSTEM. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
  - USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE JOINT WRAP IS TO BE APPLIED.
  - A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (ADHESIVE SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.
- IF THE CONTRACTOR NEEDS TO CANCEL ANY SHIPMENTS, THEY MUST DO SO 48 HOURS PRIOR TO THEIR SCHEDULED ARRIVAL AT THE JOB SITE. IF CANCELED AFTER THAT TIME, PLEASE CONTACT THE PROJECT MANAGER.
- IF THE STORMTRAP MODULE(S) IS DAMAGED IN ANY WAY PRIOR, DURING, OR AFTER INSTALL, STORMTRAP MUST BE CONTACTED IMMEDIATELY TO ASSESS THE DAMAGE AND TO DETERMINE WHETHER OR NOT THE MODULE(S) WILL NEED TO BE REPLACED. IF ANY MODULE ARRIVES AT THE JOBSITE DAMAGED DO NOT UNLOAD IT; CONTACT STORMTRAP IMMEDIATELY. ANY DAMAGE NOT REPORTED BEFORE THE TRUCK IS UNLOADED WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- STORMTRAP MODULES CANNOT BE ALTERED IN ANY WAY AFTER MANUFACTURING WITHOUT WRITTEN CONSENT FROM STORMTRAP.



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**SCALE:**

NTS

**SHEET TITLE:**

DOUBLETRAP  
 INSTALLATION  
 SPECIFICATIONS

**SHEET NUMBER:**

3.0

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 UNDERGROUND STORAGE**

PROJ. NO. 180245.0004

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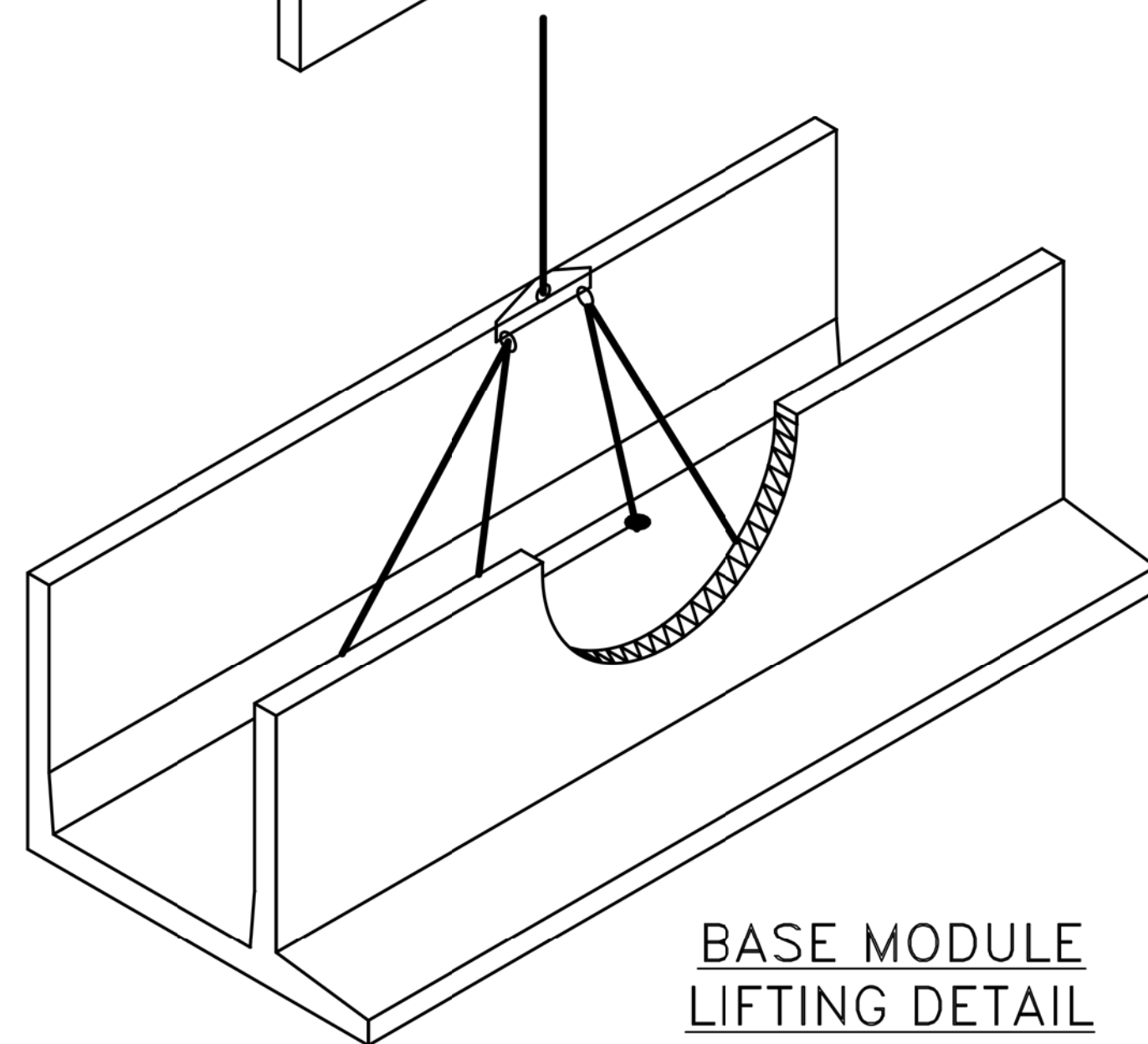
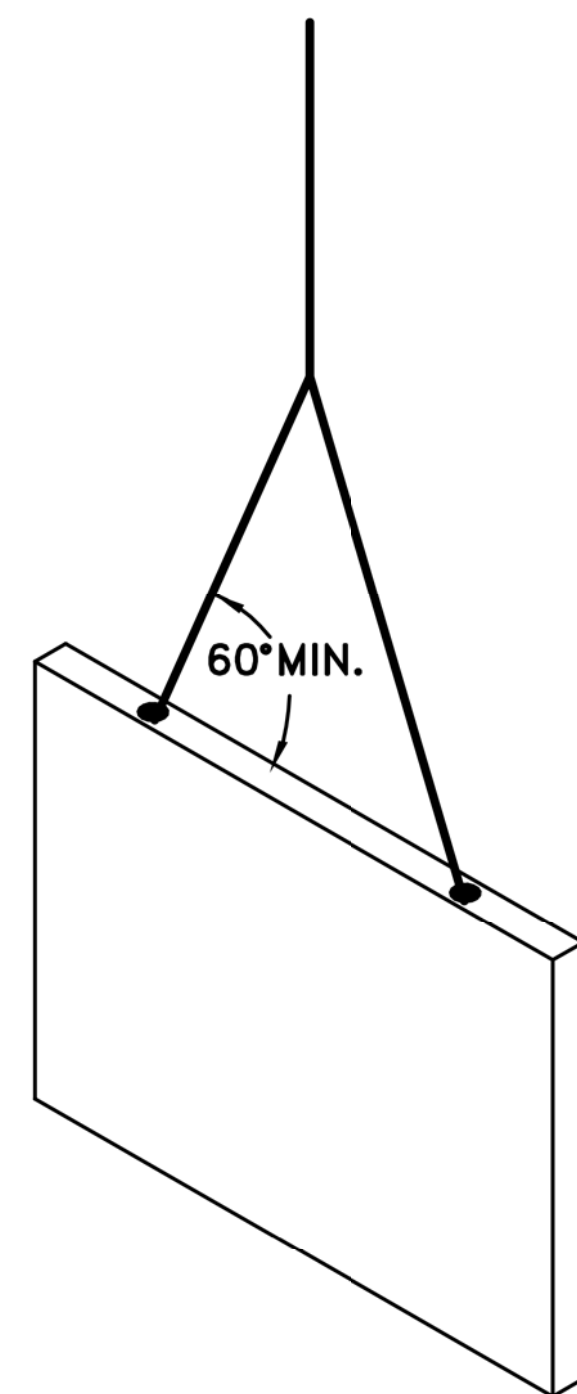
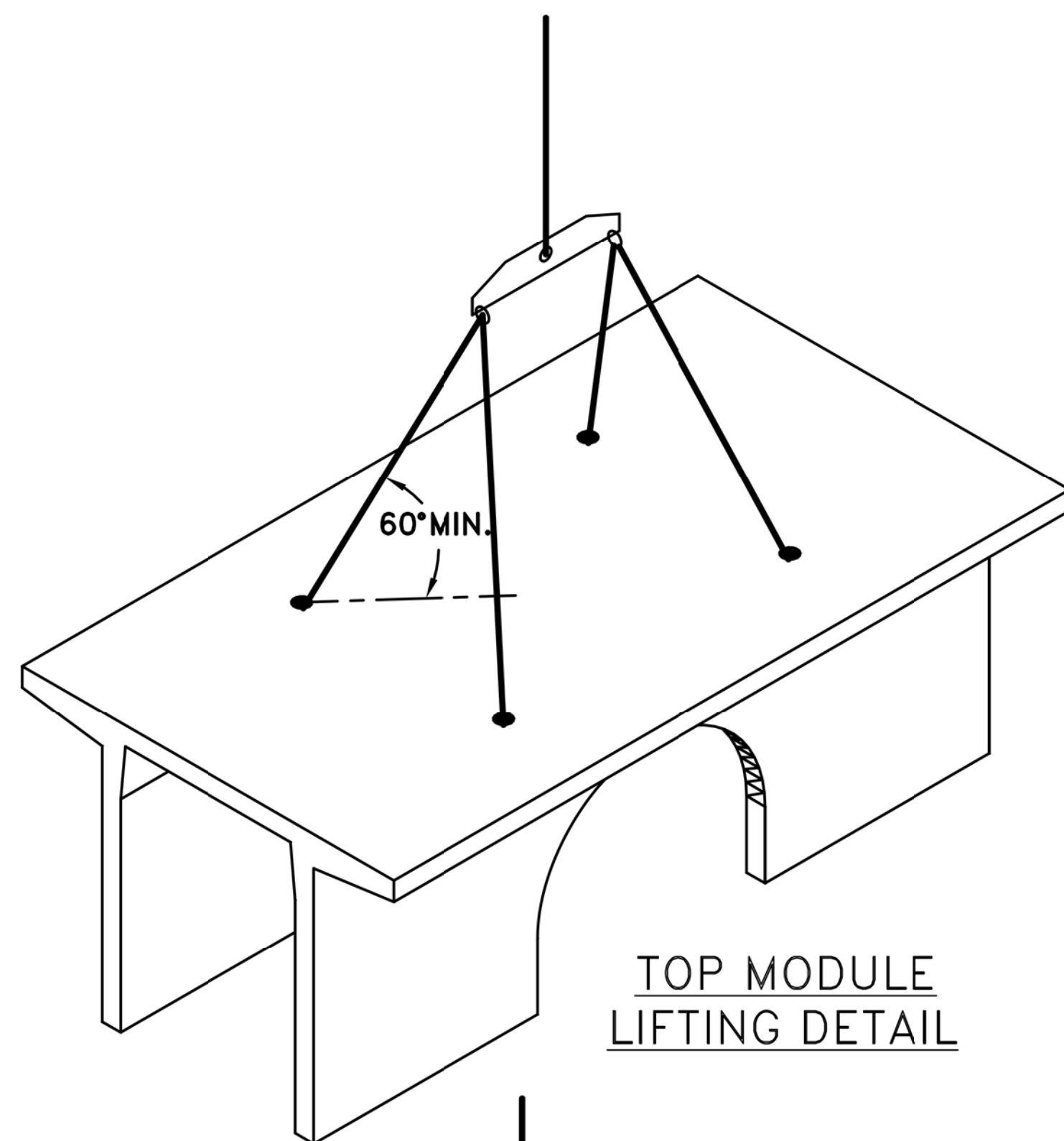
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DRAWING NO.

83

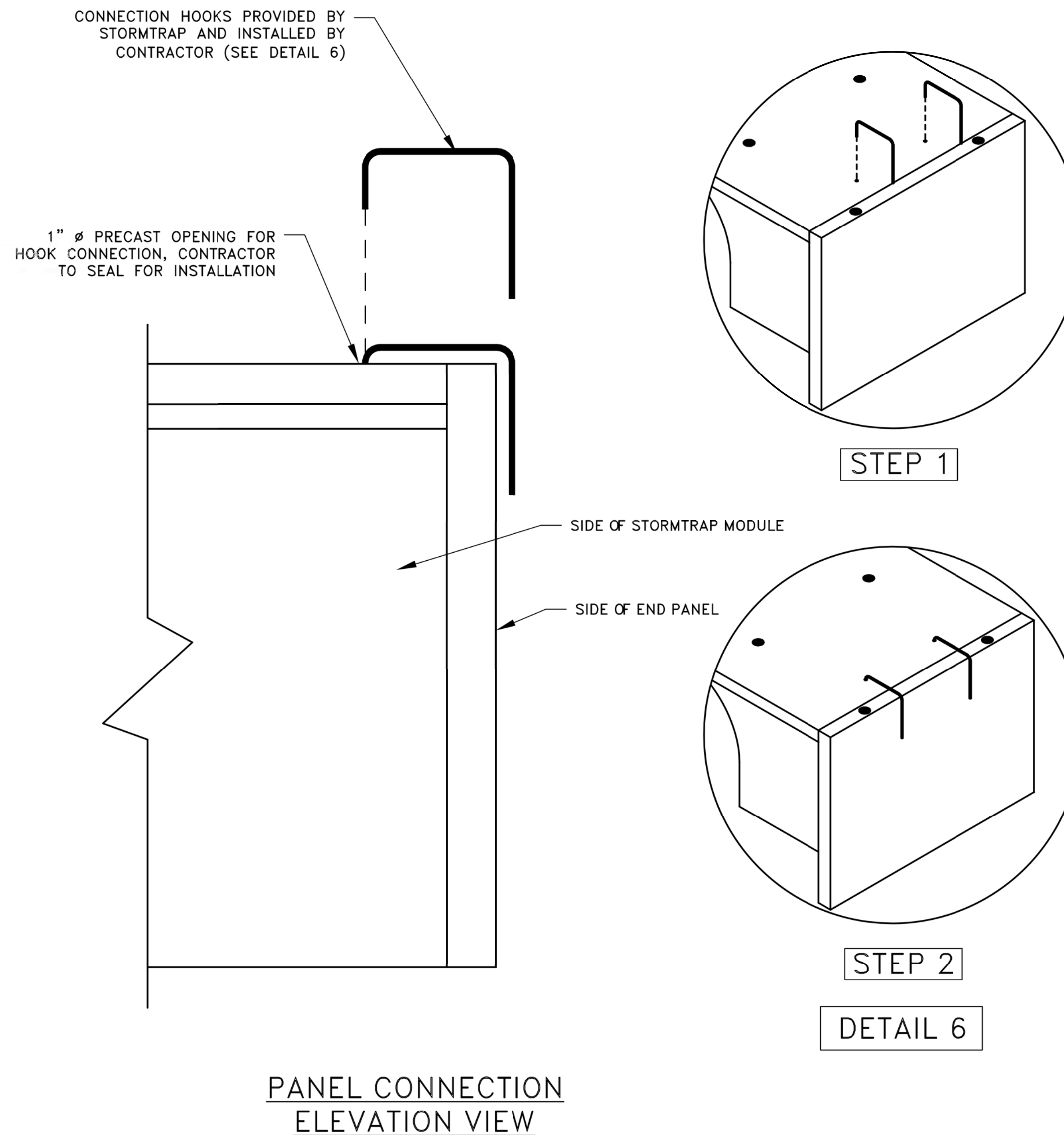
**STORMTRAP MODULE LIFTING INSTALLATION NOTES**

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL (4) CHAINS/CABLES ARE SECURED PROPERLY TO THE LIFTING ANCHORS AND IN EQUAL TENSION WHEN LIFTING THE STORMTRAP MODULE (SEE RECOMMENDATIONS 2 & 3).
2. MINIMUM 7'-0" CHAIN/CABLE LENGTH TO BE USED TO LIFT STORMTRAP MODULES (SUPPLIED BY CONTRACTOR).
3. CONTRACTOR TO ENSURE MINIMUM LIFTING ANGLE IS 60° FROM TOP SURFACE OF STORMTRAP MODULE. SEE DETAIL.



**END PANEL ERECTION/INSTALLATION NOTES**

1. END PANELS WILL BE SUPPLIED TO CLOSE OFF OPEN ENDS OF ROWS.
2. PANELS SHALL BE INSTALLED IN A TILT UP FASHION DIRECTLY ADJACENT TO OPEN END OF MODULE (REFER TO SHEET 2.0 FOR END PANEL LOCATIONS).
3. CONNECTION HOOKS WILL BE SUPPLIED WITH END PANELS TO SECURELY CONNECT PANEL TO ADJACENT STORMTRAP MODULE (SEE PANEL CONNECTION ELEVATION VIEW).
4. ONCE CONNECTION HOOK IS ATTACHED, LIFTING CLUTCHES MAY BE REMOVED.
5. JOINT WRAP SHALL BE PLACED AROUND PERIMETER JOINT PANEL (SEE SHEET 3.0).



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**SHEET NUMBER:**

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DWN.	MAK	WSNSP CONTRACT #3 THORNWOOD PARK UNDERGROUND STORAGE	DATE: 10/8/2021
CHKD.	LMF		SHEET 84 OF 207
SCALE:	1'		DRAWING NO.
PLOT DATE:	10/8/2021		<b>84</b>
CAD USER:	mkoonce		
FILE NAME	N:\wilmette\180245.00004\Civil\STP-C3.180245_02.sht		

ZONE CHART		
ZONES	ZONE DESCRIPTIONS	REMARKS
ZONE 1	FOUNDATION AGGREGATE	#5 (3/4") STONE AGGREGATE (SEE NOTE 4 FOR DESCRIPTION)
ZONE 2	BACKFILL	UNIFIED SOILS CLASSIFICATION (GW, GP, SW, SP) OR SEE BELOW FOR APPROVED BACKFILL OPTIONS
ZONE 3	FINAL COVER OVERTOP	MATERIALS NOT TO EXCEED 120 PCF

FILL DEPTH	TRACK WIDTH	MAX VEHICLE WEIGHT (KIPS)	MAX GROUND PRESSURE
12"	12"	51.8	1690 psf
	18"	56.1	1219 psf
	24"	68.1	1111 psf
	30"	76.7	1000 psf
	36"	85.0	924 psf

NOTE:  
TRACK LENGTH NOT TO EXCEED 15'-4".  
ONLY TWO TRACKS PER VEHICLE.

### STORMTRAP ZONE INSTALLATION SPECIFICATIONS/PROCEDURES

- THE FILL PLACED AROUND THE STORMTRAP MODULES MUST DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL EITHER BE COMPACTED AND/OR VIBRATED TO ENSURE THAT BACKFILL AGGREGATE/STONE MATERIAL IS WELL SEATED AND PROPERLY INTER LOCKED. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE, AND ALL SLOPES WITHIN THE AREA TO BE BACKFILLED MUST BE STEPPED OR SERRATED TO PREVENT WEDGING ACTION. CARE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MUST BE FREE-DRAINING MATERIAL. SEE ZONE 2 BACKFILL CHART ON THIS PAGE FOR APPROVED BACKFILL OPTIONS. IF NATIVE EARTH IS SUSCEPTIBLE TO MIGRATION, CONFIRM WITH GEOTECHNICAL ENGINEER AND PROVIDE PROTECTION AS REQUIRED (PROVIDED BY OTHERS).
- DURING PLACEMENT OF MATERIAL OVERTOP THE SYSTEM, AT NO TIME SHALL MACHINERY BE USED OVERTOP THAT EXCEEDS THE DESIGN LIMITATIONS OF THE SYSTEM. WHEN PLACEMENT OF MATERIAL OVERTOP, MATERIAL SHALL BE PLACED SUCH THAT THE DIRECTION OF PLACEMENT IS PARALLEL WITH THE OVERALL LONGITUDINAL DIRECTION OF THE SYSTEM WHENEVER POSSIBLE.
- THE FILL PLACED OVERTOP THE SYSTEM SHALL BE PLACED AT A MINIMUM OF 6" LIFTS. AT NO TIME SHALL MACHINERY OR VEHICLES GREATER THAN THE DESIGN HS-20 LOADING CRITERIA TRAVEL OVERTOP THE SYSTEM WITHOUT THE MINIMUM DESIGN COVERAGE. IF TRAVEL IS NECESSARY OVERTOP THE SYSTEM PRIOR TO ACHIEVING THE MINIMUM DESIGN COVER, IT MAY BE NECESSARY TO REDUCE THE ULTIMATE LOAD/BURDEN OF THE OPERATING MACHINERY SO AS TO NOT EXCEED THE DESIGN CAPACITY OF THE SYSTEM. IN SOME CASES, IN ORDER TO ACHIEVE REQUIRED COMPACTION, HAND COMPACTION MAY BE NECESSARY IN ORDER NOT TO EXCEED THE ALLOTTED DESIGN LOADING. SEE CHART FOR TRACKED VEHICLE WIDTH AND ALLOWABLE MAXIMUM PRESSURE PER TRACK.
- STONE AGGREGATE FOUNDATION IN ZONE 1 IS RECOMMENDED FOR LEVELING PURPOSES ONLY (OPTIONAL).
- ZONE 2 BACKFILL MUST BE FREE DRAINING MATERIAL.

APPROVED ZONE 2 BACKFILL OPTIONS	
OPTION	REMARKS
3/4" STONE AGGREGATE	THE STONE AGGREGATE SHALL CONSIST OF CLEAN AND FREE DRAINING ANGULAR MATERIAL. THE SIZE OF THIS MATERIAL SHALL HAVE 100% PASSING THE 1" SIEVE WITH 0% TO 5% PASSING THE #8 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOFABRIC AROUND THE PERIMETER OF THE BACKFILL (ASTM SIZE #57) AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
SAND	IMPORTED PURE SAND IS PERMITTED TO BE USED AS BACKFILL IF IT IS CLEAN AND FREE DRAINING. THE SAND USED FOR BACKFILLING SHALL HAVE LESS THAN 40% PASSING #40 SIEVE AND LESS THAN 5% PASSING #200 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOFABRIC AROUND THE PERIMETER OF THE SAND BACKFILL.
CRUSHED CONCRETE AGGREGATE	CLEAN, FREE DRAINING CRUSHED CONCRETE AGGREGATE MATERIAL CAN BE USED AS BACKFILL FOR STORMTRAP'S MODULES. THE SIZE OF THIS MATERIAL SHALL HAVE 100% PASSING THE 1" SIEVE WITH 0% TO 5% PASSING THE #8 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOFABRIC AROUND THE PERIMETER OF THE BACKFILL.

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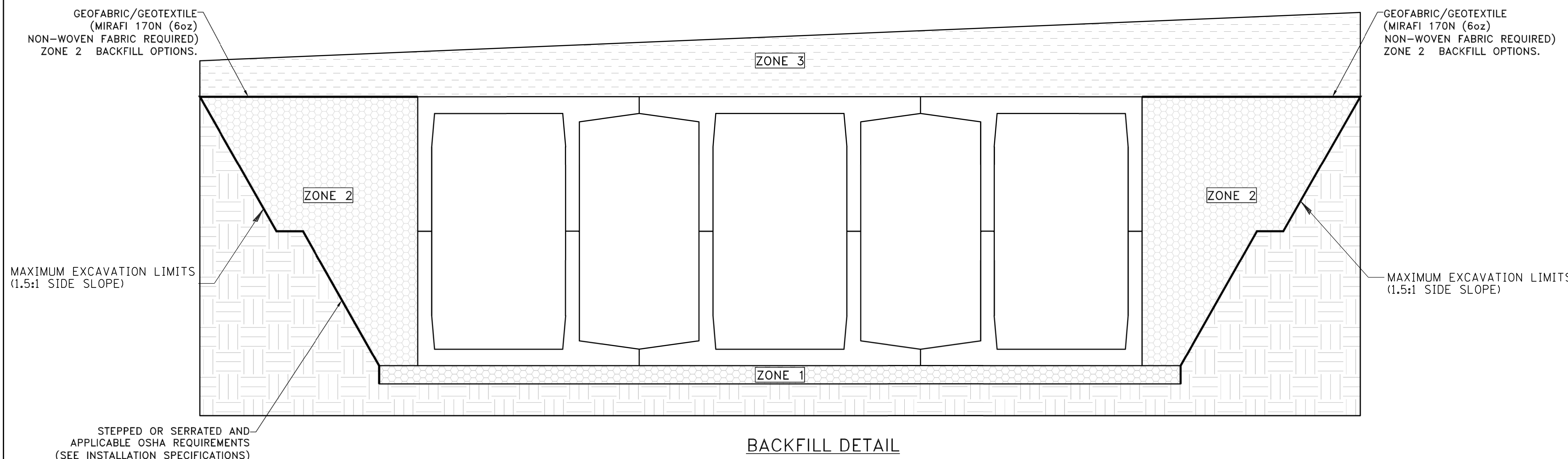
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### SHEET TITLE:

DOUBLETRAP  
BACKFILL  
SPECIFICATIONS

### SHEET NUMBER:

4.0



BACKFILL DETAIL

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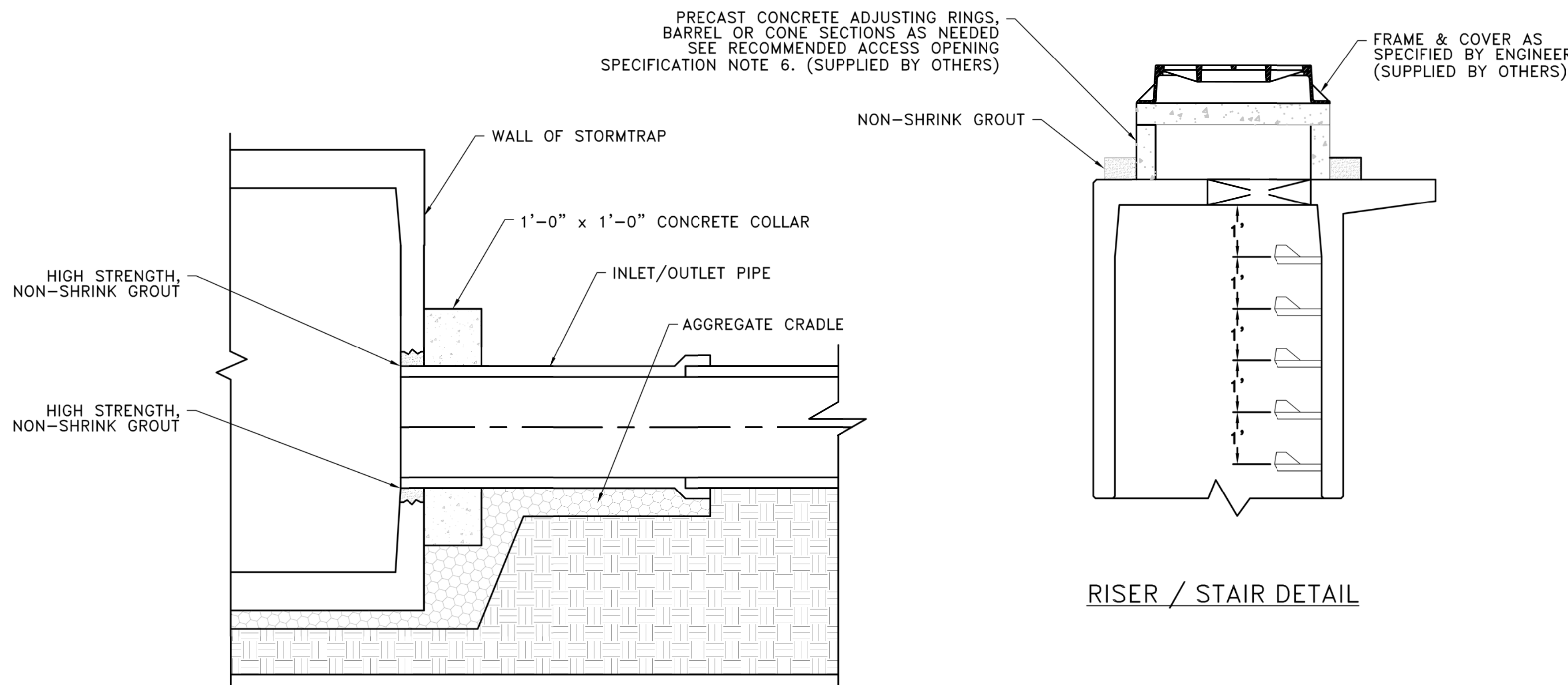
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TITLE: **WSNSP CONTRACT #3  
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UNDERGROUND STORAGE**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 85 OF 207  
DRAWING NO. **85**

**RECOMMENDED  
ACCESS OPENING SPECIFICATION**

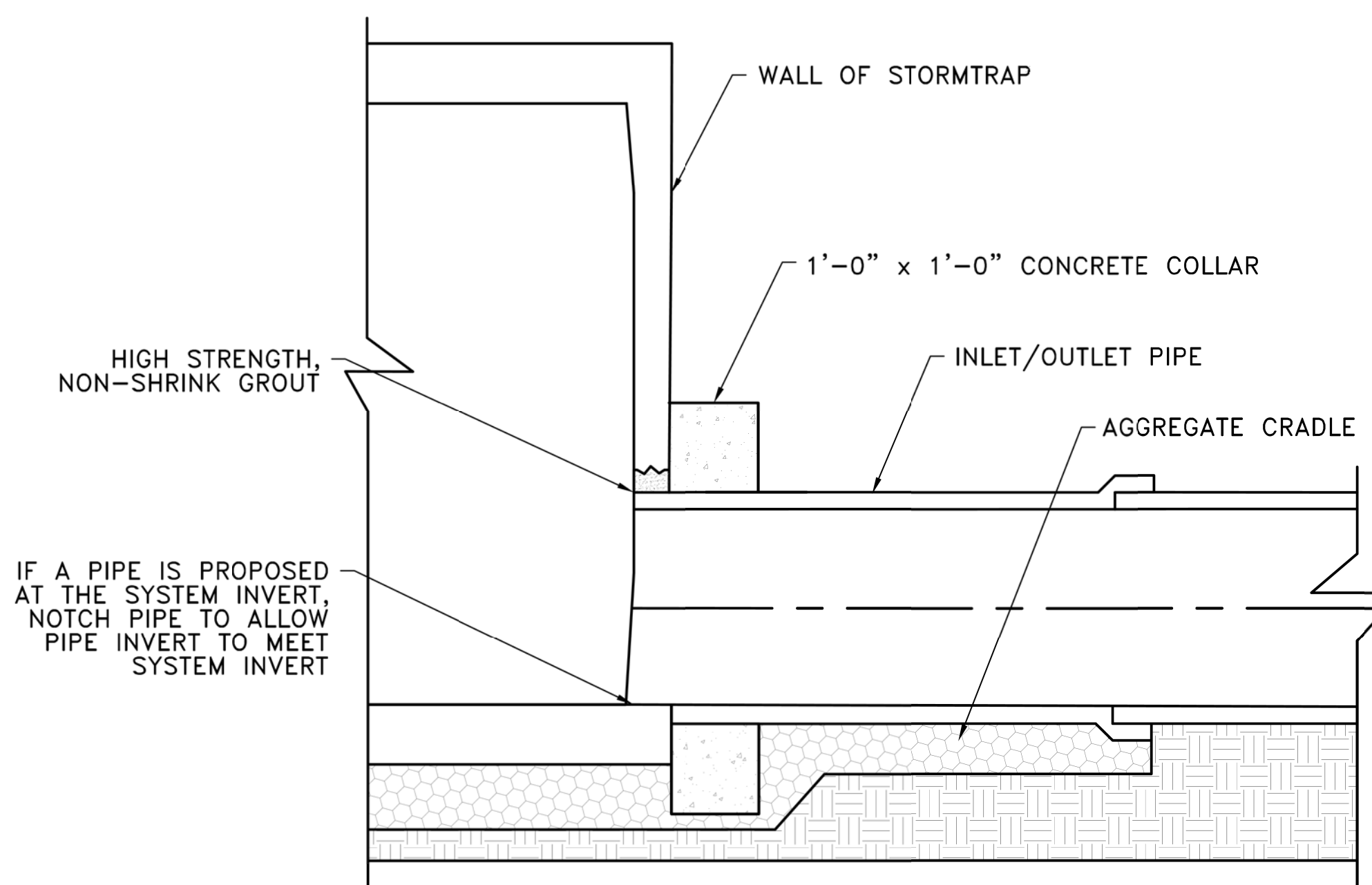
1. A TYPICAL ACCESS OPENING FOR THE STORMTRAP SYSTEM ARE 2'-0" IN DIAMETER. ACCESS OPENINGS LARGER THAN 3'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP. ALL OPENINGS MUST RETAIN AT LEAST 1'-0" OF CLEARANCE FROM THE END OF THE STORMTRAP MODULE UNLESS NOTED OTHERWISE. ALL ACCESS OPENINGS TO BE LOCATED ON INSIDE LEG UNLESS OTHERWISE SPECIFIED.
2. PLASTIC COATED STEEL STEPS PRODUCED BY M.A. INDUSTRIES PART #PS3-PFC OR APPROVED EQUAL (SEE STEP DETAIL) ARE PROVIDED INSIDE ANY MODULE WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE MODULE IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTRAP MODULES. ALL ENSUING STEPS SHALL BE PLACED AT A DISTANCE BETWEEN 10" MIN AND 14" MAX BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE MODULE.
3. STORMTRAP LIFTING INSERTS MAY BE RELOCATED TO AVOID INTERFERENCE WITH ACCESS OPENINGS OR THE CENTER OF GRAVITY OF THE MODULE AS NEEDED.
4. STORMTRAP ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
5. ACCESS OPENINGS SHOULD BE LOCATED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. STORMTRAP RECOMMENDS AT LEAST TWO ACCESS OPENINGS PER SYSTEM FOR ACCESS AND INSPECTION.
6. USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTRAP RECOMMENDS FOR COVER OVER 2' TO USE PRECAST BARREL OR CONE SECTIONS. (PROVIDED BY OTHERS)



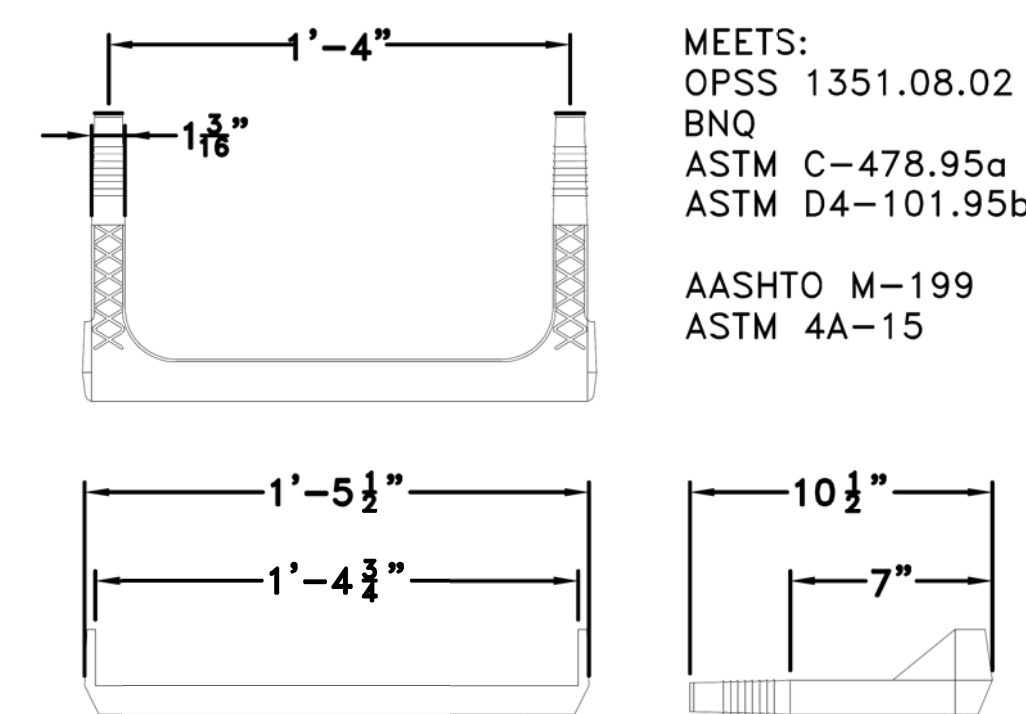
**RISER / STAIR DETAIL**

**RECOMMENDED  
PIPE OPENING SPECIFICATION**

1. MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
2. MAXIMUM OPENING SIZE TO BE DETERMINED BY THE MODULE HEIGHT. PREFERRED OPENING SIZE  $\phi$  36" OR LESS. ANY OPENING NEEDED THAT DOES NOT FIT THIS CRITERIA SHALL BE BROUGHT TO THE ATTENTION OF STORMTRAP FOR REVIEW.
3. CONNECTING PIPES SHALL BE INSTALLED WITH A 1'-0" CONCRETE COLLAR, AND AN AGGREGATE CRADLE FOR AT LEAST ONE PIPE LENGTH (SEE PIPE CONNECTION DETAIL). A STRUCTURAL GRADE CONCRETE OR HIGH STRENGTH, NON-SHRINK GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI SHALL BE USED.
4. THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT.



**PIPE CONNECTION DETAIL**



**STEP DETAIL**

**RECOMMENDED PIPE  
INSTALLATION INSTRUCTIONS**

1. CLEAN AND LIGHTLY LUBRICATE ALL OF THE PIPE TO BE INSERTED INTO STORMTRAP.
2. IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES. BEVEL AND LUBRICATE LEAD END OF PIPE.
3. ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.

NOTE: ALL ANCILLARY PRODUCTS/SPECIFICATIONS RECOMMENDED AND SHOWN ON THIS SHEET ARE RECOMMENDATIONS ONLY AND SUBJECT TO CHANGE PER THE INSTALLING CONTRACTOR AND/OR PER LOCAL MUNICIPAL CODE/REQUIREMENTS.

**StormTrap**

PATENTS LISTED AT: [HTTP://STORMTRAP.COM/PATENT/](http://stormtrap.com/patent/)

1287 WINDHAM PARKWAY  
ROMEDEVILLE, IL 60446  
P:815-941-4549 / F:331-318-5347

**ENGINEER INFORMATION:**

CHRISTOPHER B BURKE  
ENGINEERING LTD  
9575 W HIGGINS RD  
STE 600  
ROSEMONT, IL 60018

**PROJECT INFORMATION:**

THORNWOOD PARK

WILMETTE, IL

**CURRENT ISSUE DATE:**

7/26/2021

**ISSUED FOR:**

APPROVAL

REV.	DATE:	ISSUED FOR:	DWN BY:
10	7/26/2021	APPROVAL	EB
9	7/9/2021	APPROVAL	JPH
8	7/2/2021	APPROVAL	JPH
7	5/4/2021	PRELIMINARY	JPH
6	4/27/2021	PRELIMINARY	JPH
5	4/20/2021	PRELIMINARY	JPH
4	4/13/2021	PRELIMINARY	JPH

**SCALE:**

NTS

**SHEET TITLE:**

RECOMMENDED  
PIPE / ACCESS  
OPENING  
SPECIFICATIONS

**SHEET NUMBER:**

5.0

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

**BAXTER & WOODMAN**  
Consulting Engineers

CLIENT:



**Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	

TITLE: **WSNSP CONTRACT #3  
THORNWOOD PARK  
UNDERGROUND STORAGE**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 86 OF 207  
DRAWING NO. **86**

**StormTrap®**

PATENTS LISTED AT: [HTTP://STORMTRAP.COM/PATENT]

1287 WINDHAM PARKWAY  
 ROMEVILLE, IL 60446  
 P:815-941-4549 / F:331-318-5347

**ENGINEER INFORMATION:**

CHRISTOPHER B BURKE  
 ENGINEERING LTD  
 9575 W HIGGINS RD  
 STE 600  
 ROSEMONT, IL 60018

**PROJECT INFORMATION:**

THORNWOOD PARK

WILMETTE, IL

**CURRENT ISSUE DATE:**

7/26/2021

**ISSUED FOR:**

APPROVAL

REV.	DATE:	ISSUED FOR:	DWN BY:
10	7/26/2021	APPROVAL	EB
9	7/9/2021	APPROVAL	JPH
8	7/2/2021	APPROVAL	JPH
7	5/4/2021	PRELIMINARY	JPH
6	4/27/2021	PRELIMINARY	JPH
5	4/20/2021	PRELIMINARY	JPH
4	4/13/2021	PRELIMINARY	JPH

**SCALE:**

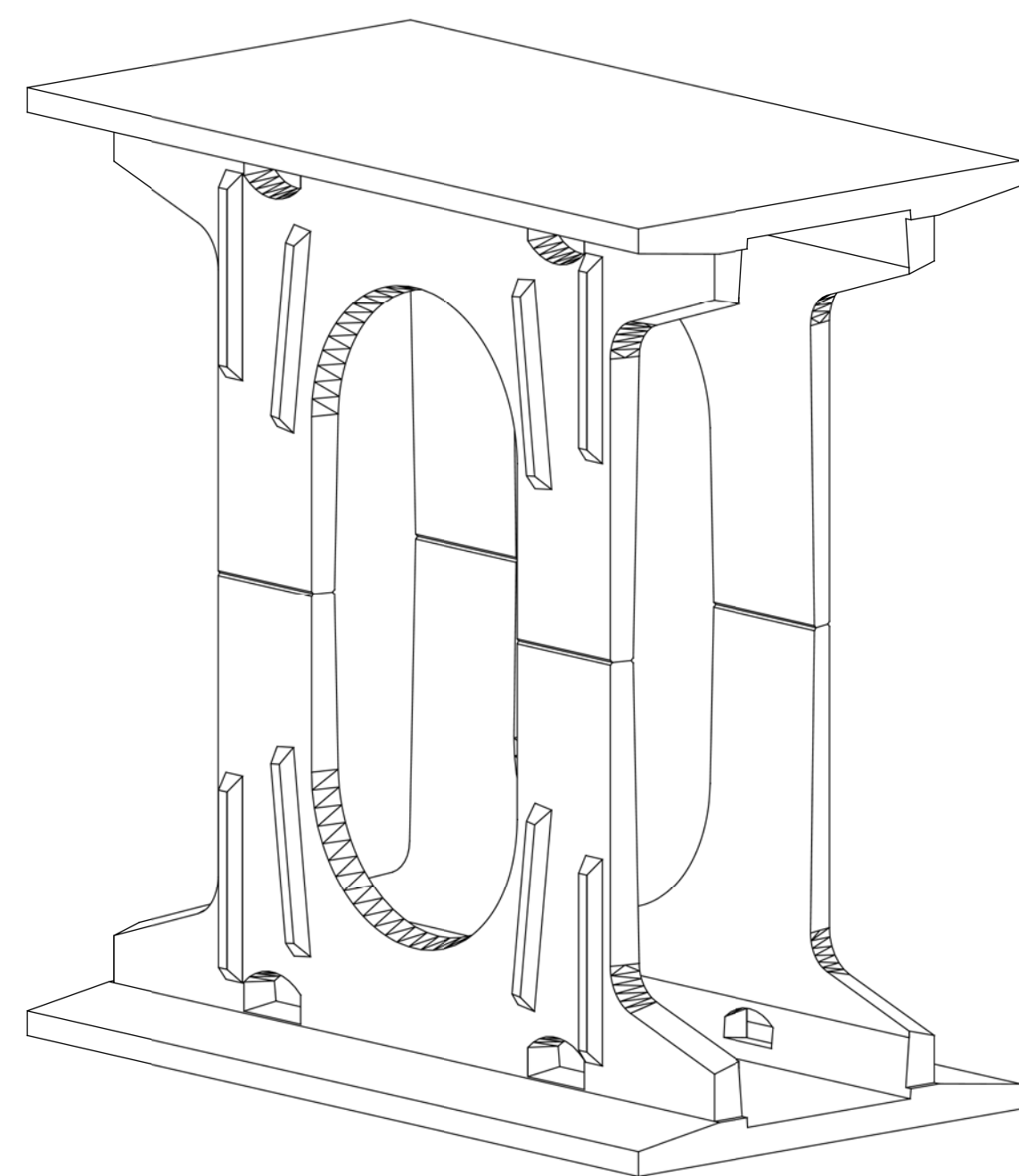
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**SHEET TITLE:**

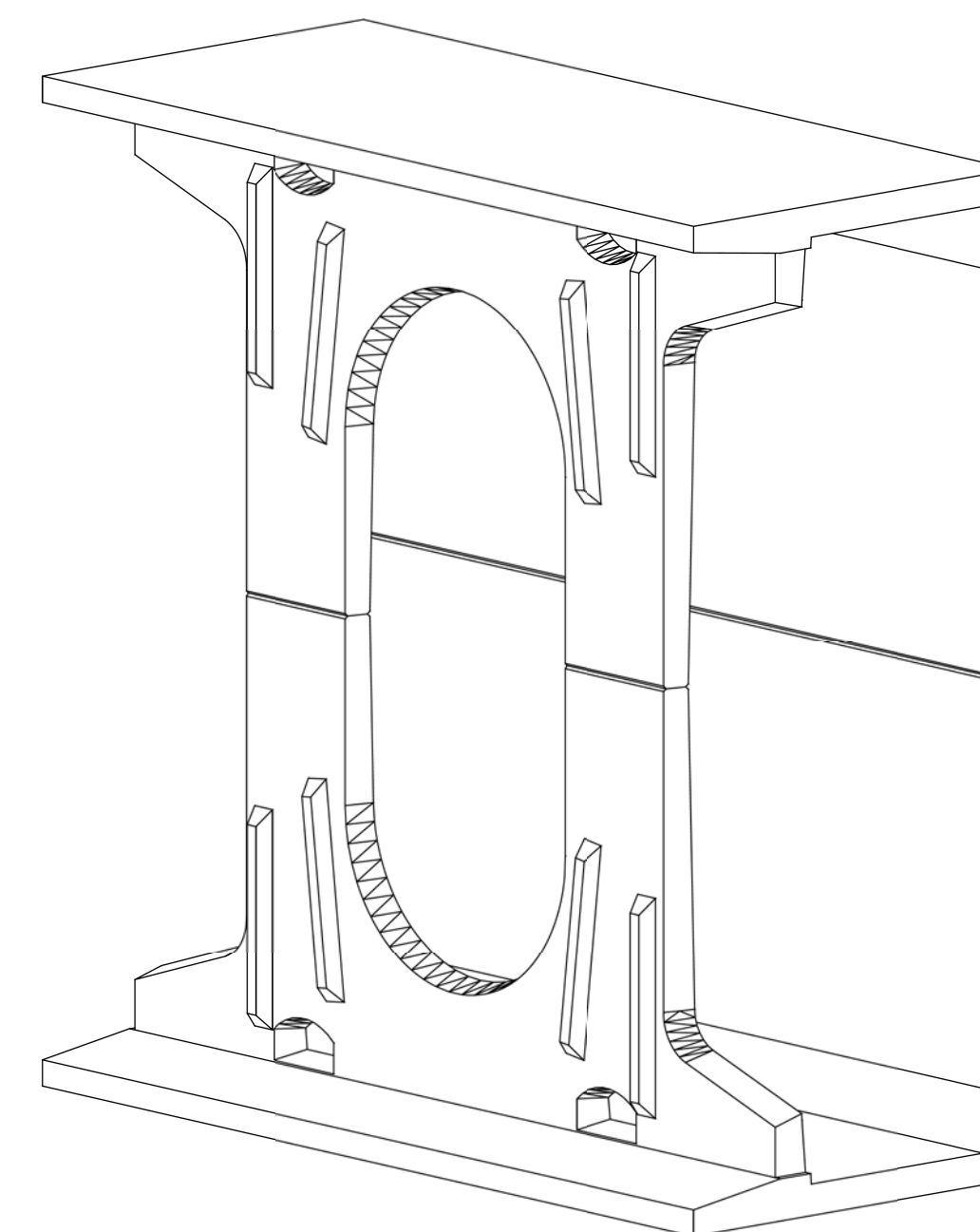
DOUBLETRAP  
 MODULE TYPES

**SHEET NUMBER:**

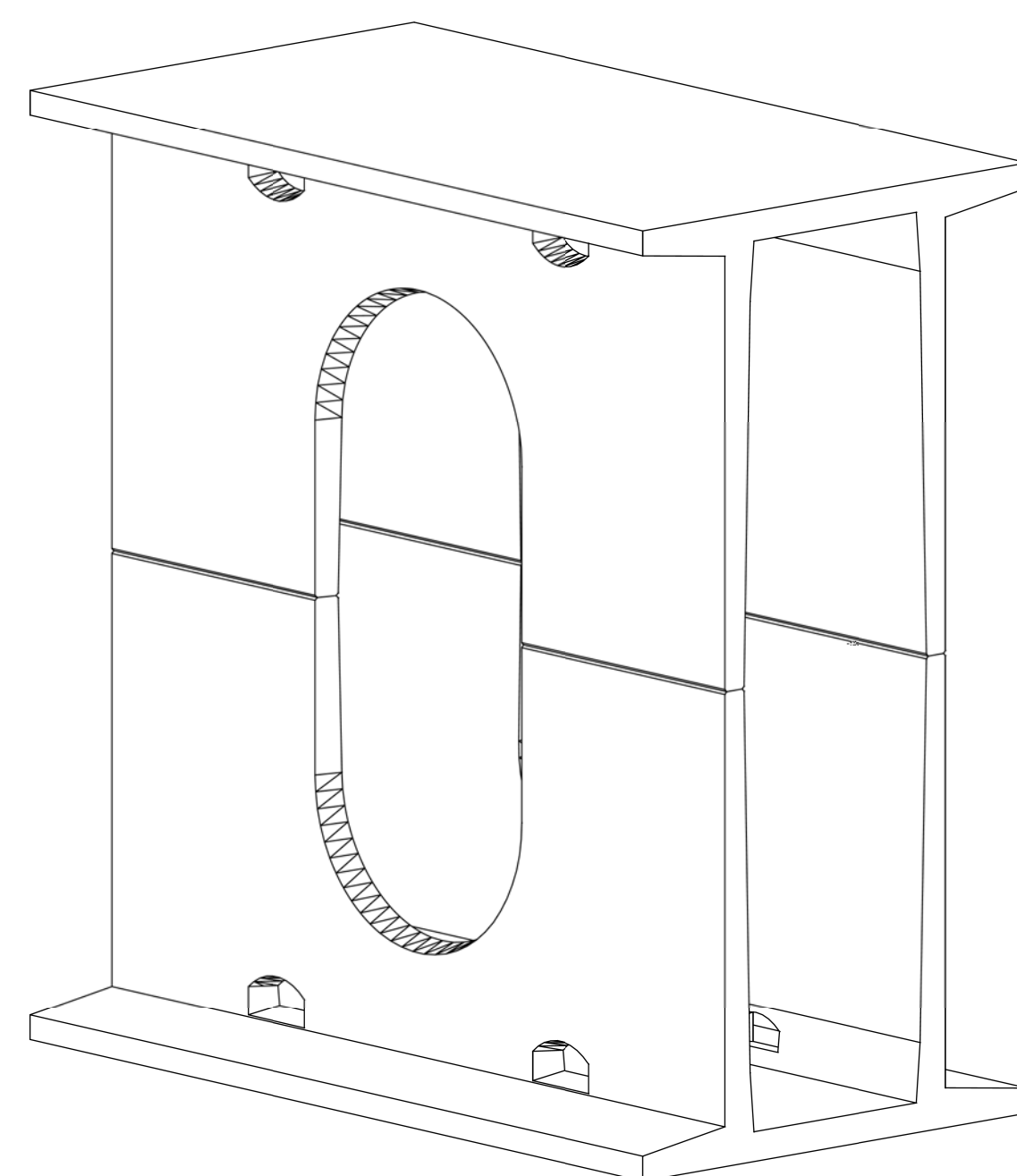
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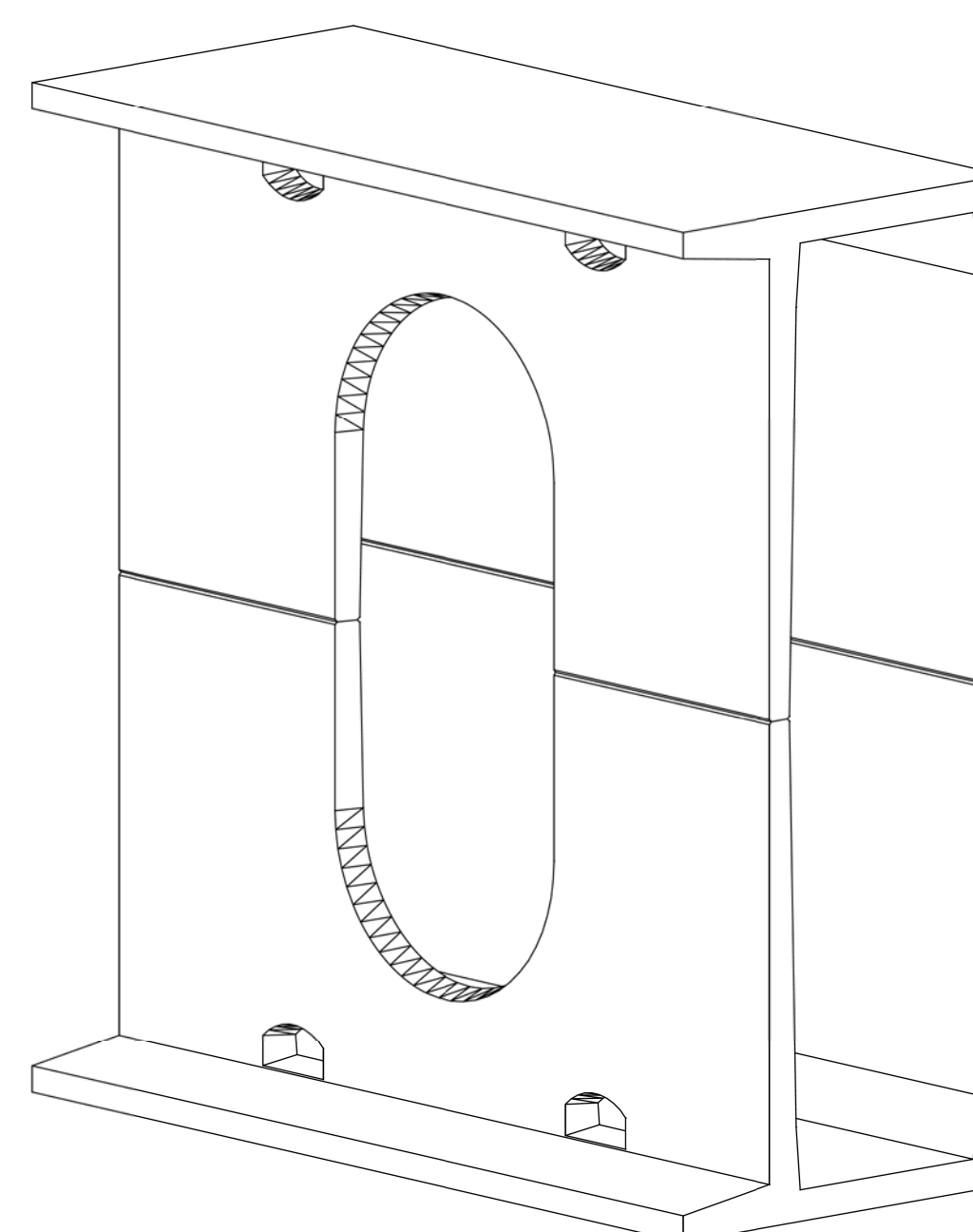
TYPE I



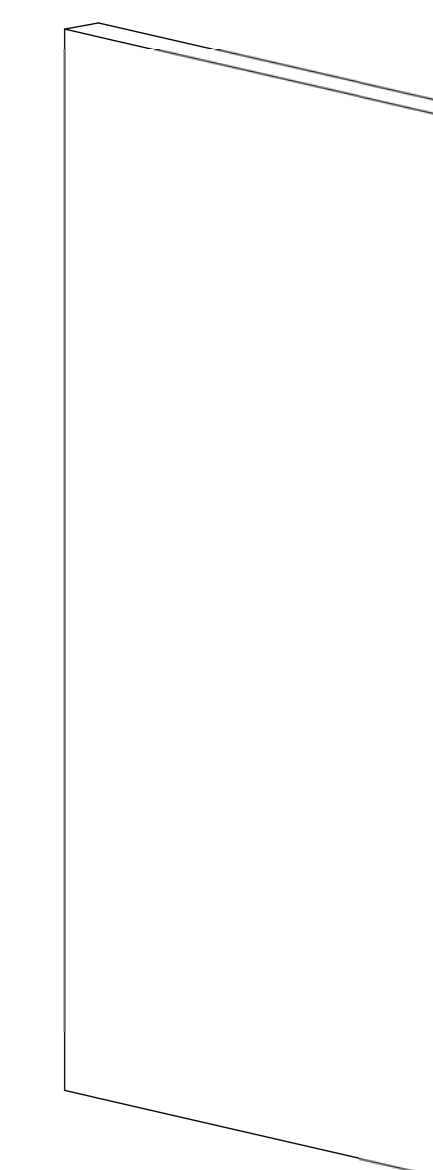
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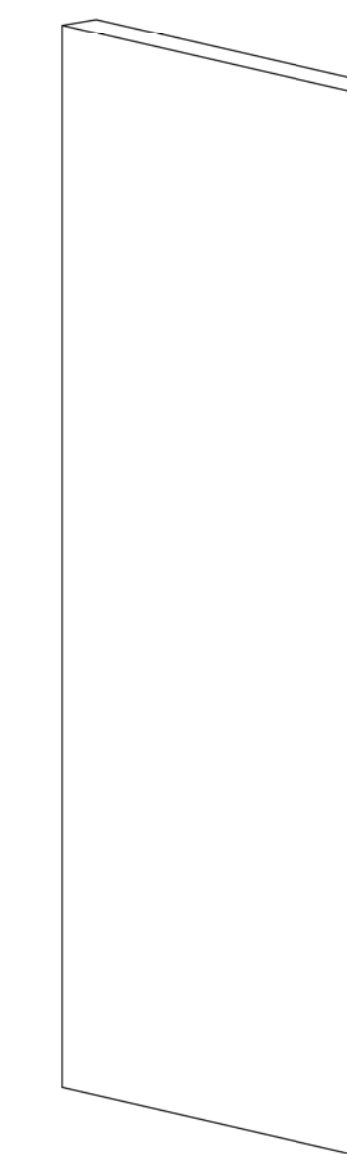
TYPE II



TYPE IV



TYPE II  
 END PANEL



TYPE IV  
 END PANEL

**NOTES:**

1. OPENING LOCATIONS AND SHAPES MAY VARY.
2. SP - INDICATES A MODULE WITH MODIFICATIONS.
3. P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
4. POCKET WINDOW OPENINGS ARE OPTIONAL.

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 (847) 823-0500



CLIENT:




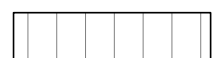

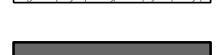
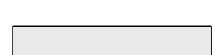

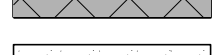
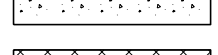
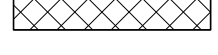

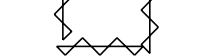
**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	

TITLE: **WSNSP CONTRACT #3  
 THORNWOOD PARK  
 UNDERGROUND STORAGE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 87 OF 207  
 DRAWING NO. **87**

**LEGEND**

-  CLASS D PATCH, 6" (SPECIAL)
-  CLASS B PATCH, 6" (SPECIAL)
-  CLASS B PATCH, 12" (SPECIAL)
-  \* COMB. CONC. CURB AND GUTTER, B-4.12
-  HMA SURFACE COURSE
-  PAVEMENT RECONSTRUCTION
-  \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
-  \* DRIVEWAY PAVEMENT
-  DETECTABLE WARNING
-  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
-  PATCH, 12" (SPECIAL), 60 SY (2" HMA SURFACE, MIX "D", 1L-9.5, N70 W/ 10" PCC BASE, MATCH EXISTING PAVEMENT COMPOSITION)

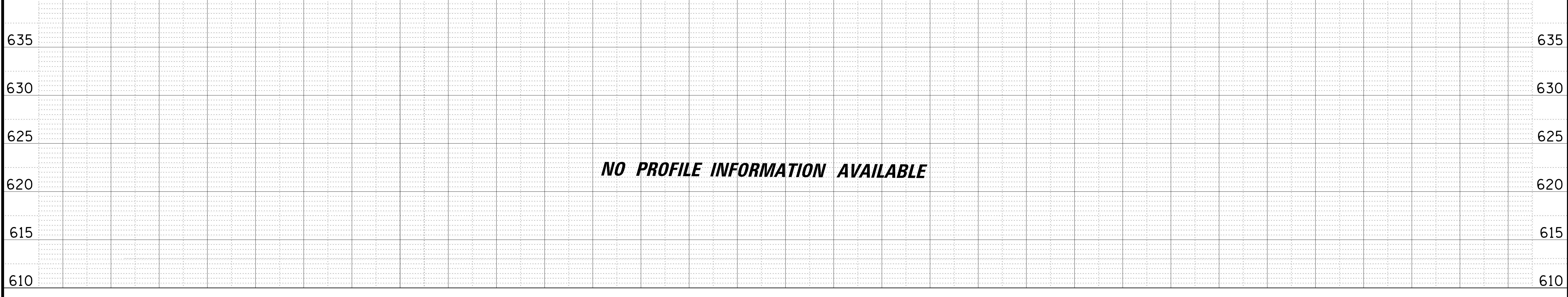
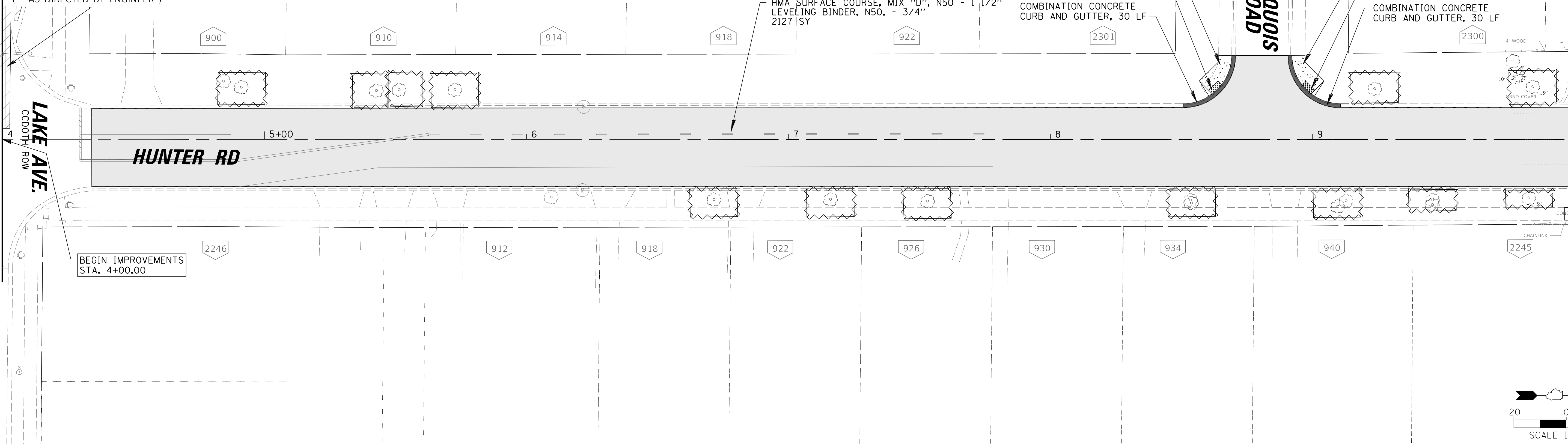
ETE  
16 LF  
TYPE)

(\* AS DIRECTED BY ENGINEER )

SEE SHEET 103 FOR CONTINUATION  
MATCH LINE STA. 4+00

LAKE AVE.  
C/OOTH ROW

MATCH LINE STA. 10+00



**NO PROFILE INFORMATION AVAILABLE**

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Rosemont, Illinois 60018  
(847) 823-0500

CLIENT:



**Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040







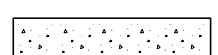


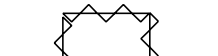
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1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\RPP-C3.180245_01.sht		

TITLE: **WSNSP CONTRACT #3  
HUNTER ROAD  
PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 88 OF 207  
DRAWING NO. **88**

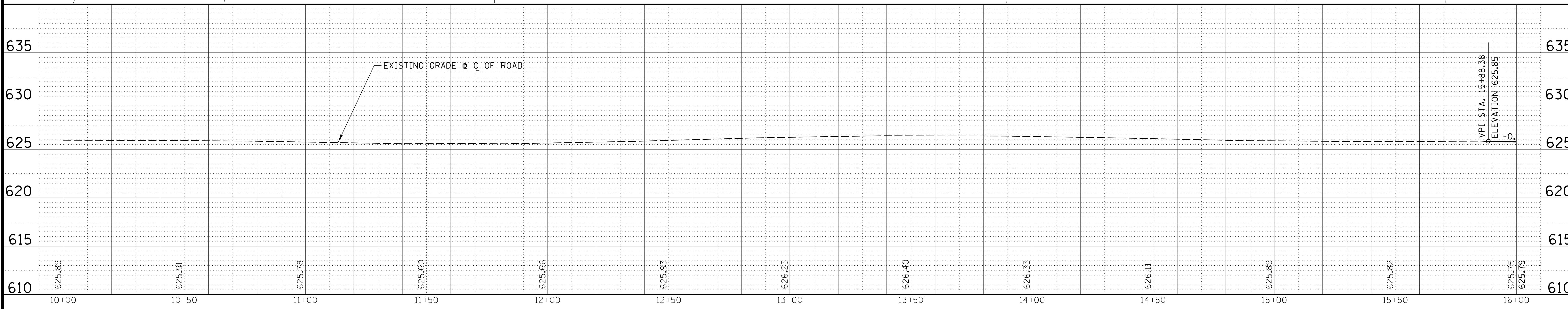
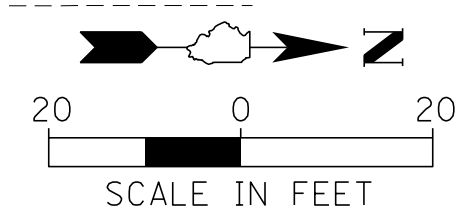
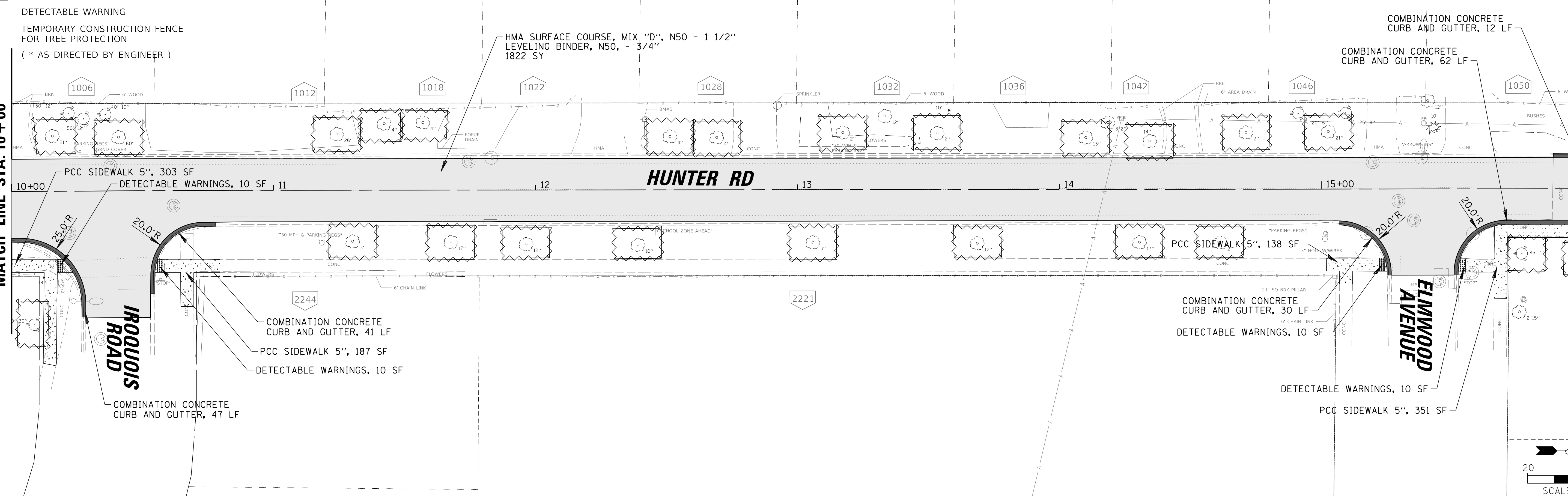


**LEGEND**

-  CLASS D PATCH, 6" (SPECIAL)
-  CLASS B PATCH, 6" (SPECIAL)
-  CLASS B PATCH, 12" (SPECIAL)
-  \* COMB. CONC. CURB AND GUTTER, B-4.12
-  HMA SURFACE COURSE
-  PAVEMENT RECONSTRUCTION
-  \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
-  \* DRIVEWAY PAVEMENT
-  DETECTABLE WARNING
-  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- ( \* AS DIRECTED BY ENGINEER )

MATCH LINE STA. 10+00

MATCH LINE STA. 16+00




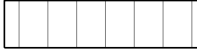
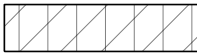






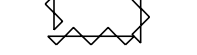
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

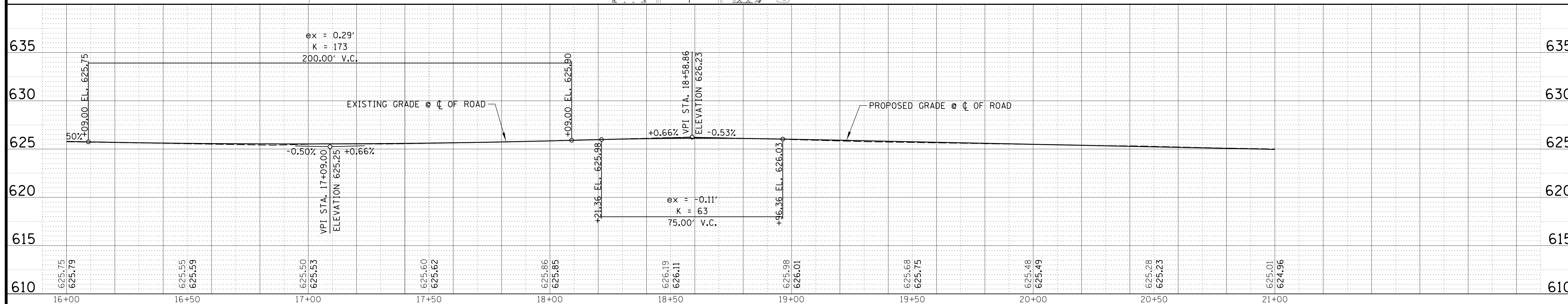
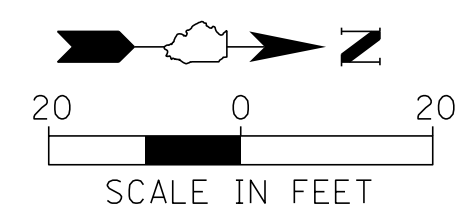
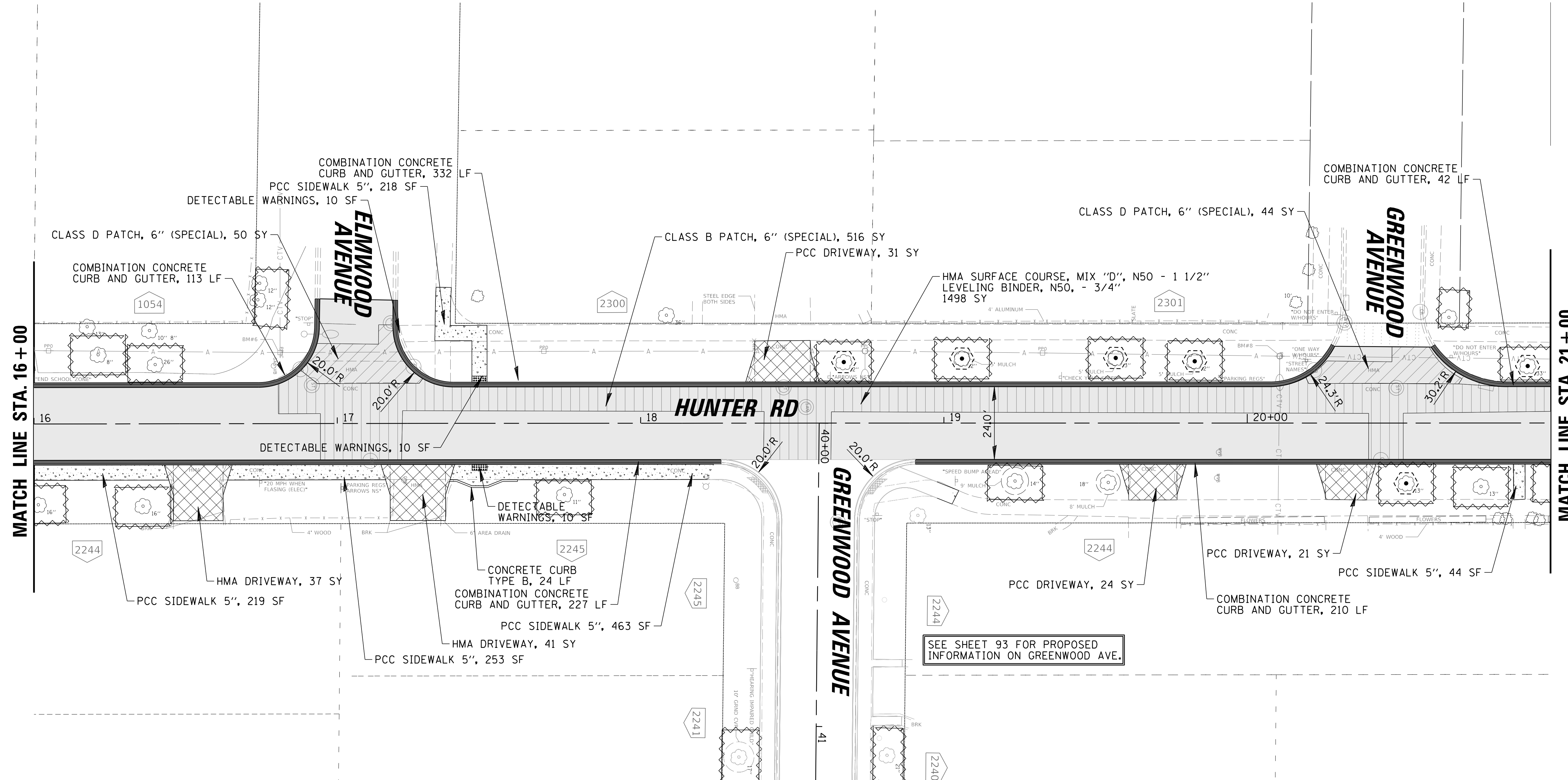
CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\RPP-C3.180245_02.sht		

TITLE: **WSNSP CONTRACT #3  
 HUNTER ROAD  
 PROPOSED PLAN & PROFILE**

PROJ. NO.	180245.0004
DATE:	10/8/2021
SHEET	89 OF 207
DRAWING NO.	<b>89</b>

- LEGEND**
-  CLASS D PATCH, 6" (SPECIAL)
  -  CLASS B PATCH, 6" (SPECIAL)
  -  CLASS B PATCH, 12" (SPECIAL)
  -  \* COMB. CONC. CURB AND GUTTER, B-4.12
  -  HMA SURFACE COURSE
  -  PAVEMENT RECONSTRUCTION
  -  \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
  -  \* DRIVEWAY PAVEMENT
  -  DETECTABLE WARNING
  -  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION (\* AS DIRECTED BY ENGINEER )



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 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:



**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

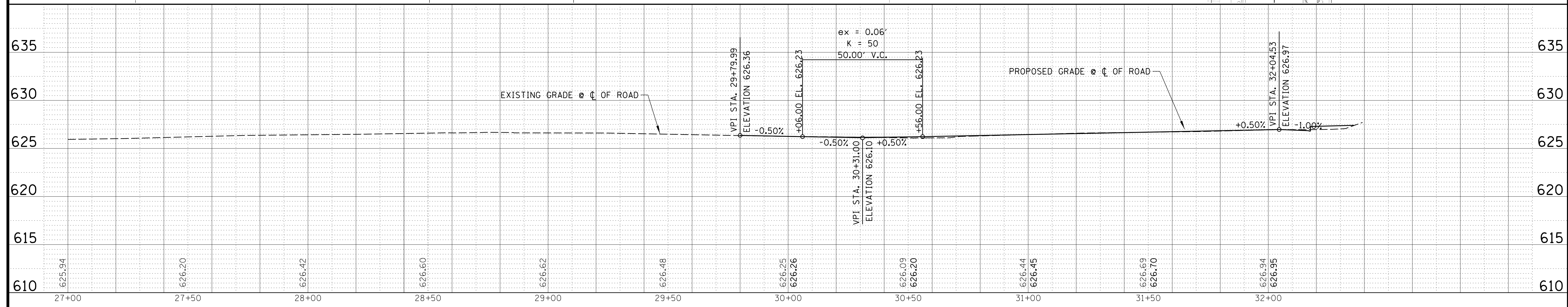
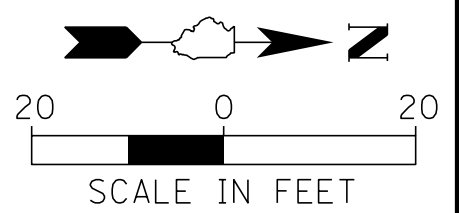
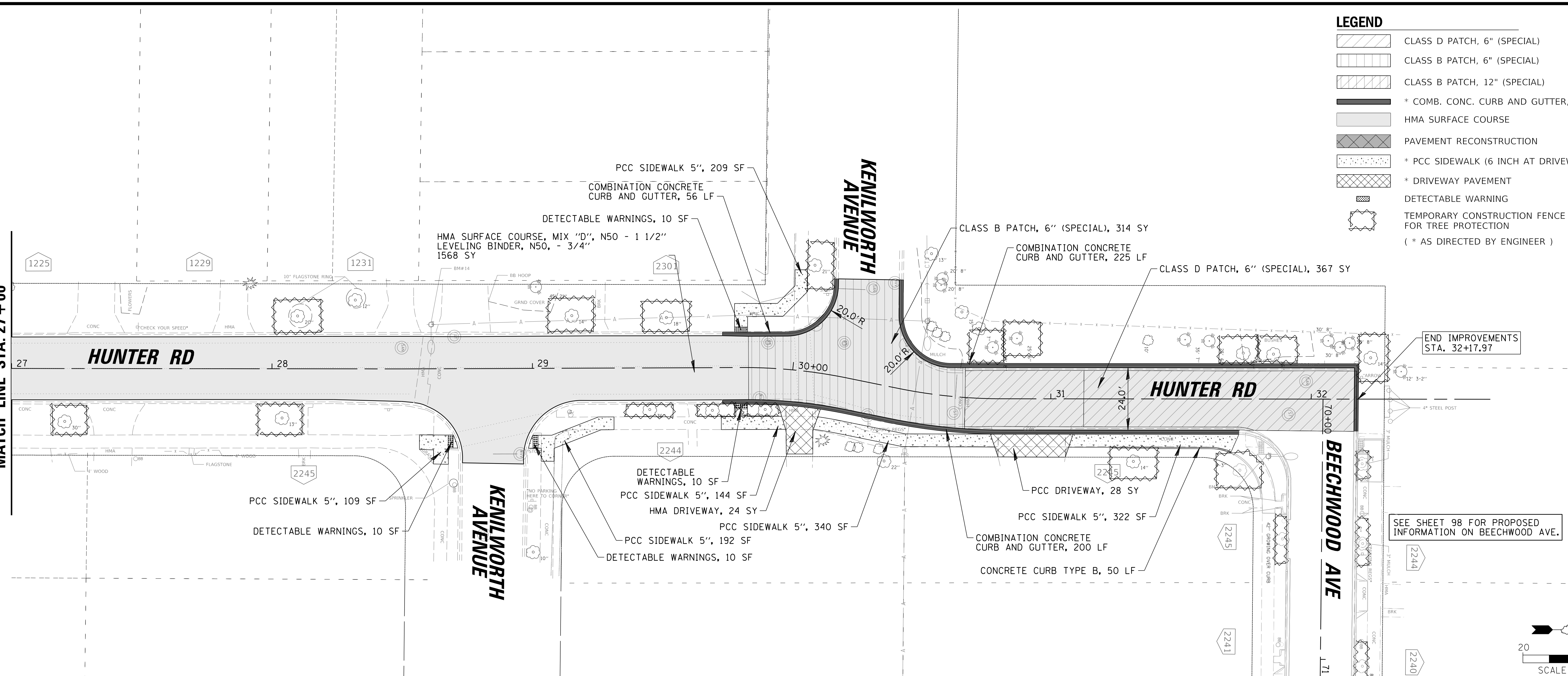
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DSGN.	JAL	TITLE:	PROJ. NO. 180245.0004
DWN.	MAK		
CHKD.	LMF	DATE: 10/8/2021	SHEET 90 OF 207
SCALE:	20'		
PLOT DATE:	10/8/2021	DRAWING NO.	90
CAD USER:	mkoonce		
MODEL:	Default	<p style="text-align: center;"><b>WSNSP CONTRACT #3</b>  <b>HUNTER ROAD</b>  <b>PROPOSED PLAN &amp; PROFILE</b></p>	



- LEGEND**
- CLASS D PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 12" (SPECIAL)
  - \* COMB. CONC. CURB AND GUTTER, B-4.12
  - HMA SURFACE COURSE
  - PAVEMENT RECONSTRUCTION
  - \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
  - \* DRIVEWAY PAVEMENT
  - DETECTABLE WARNING
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - ( \* AS DIRECTED BY ENGINEER )

MATCH LINE STA. 27+00



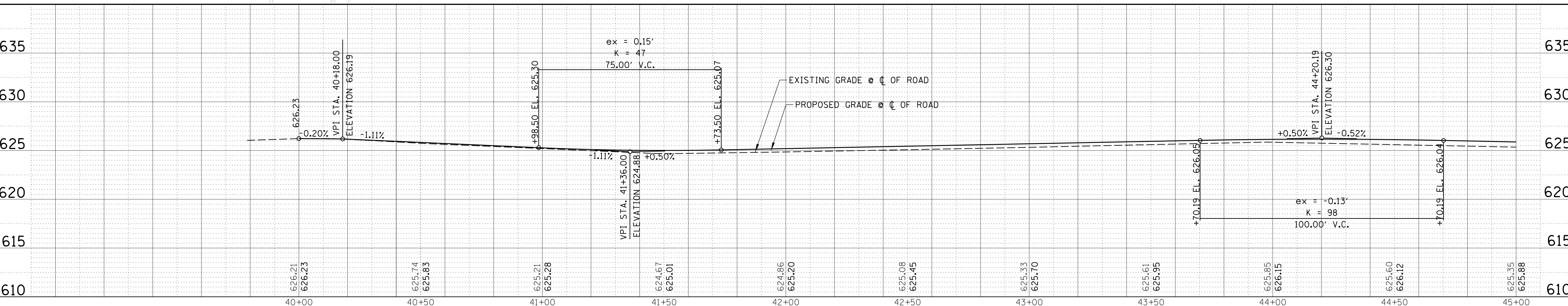
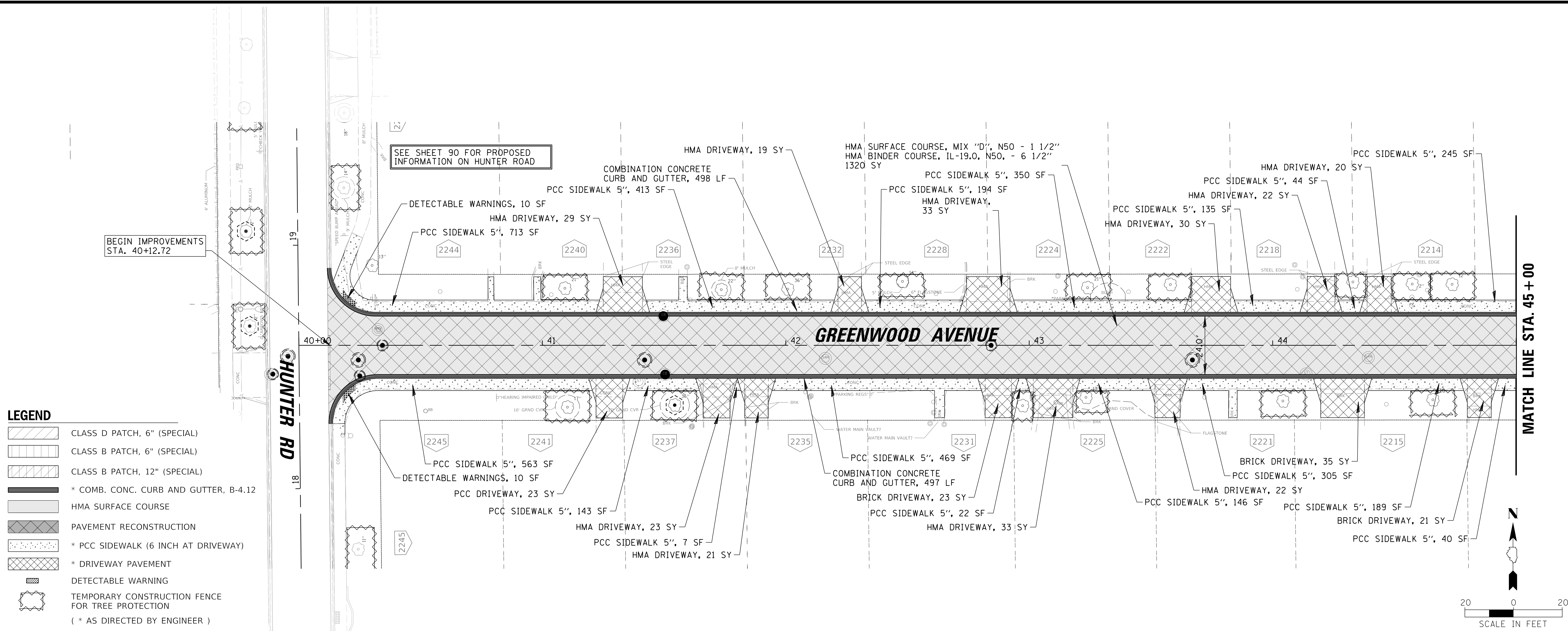
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:  
  
**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	Default
FILE NAME		N:\wilmette\180245.00004\Civil\PRPP_C3.180245_05.sht		

TITLE:  
**WSNSP CONTRACT #3**  
**HUNTER ROAD**  
**PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 92 OF 207  
 DRAWING NO.  
**92**



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 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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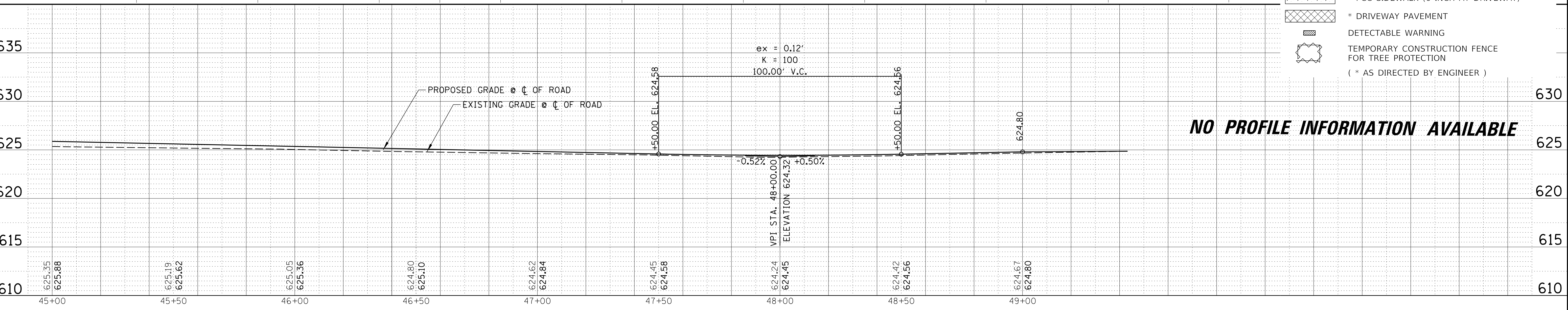
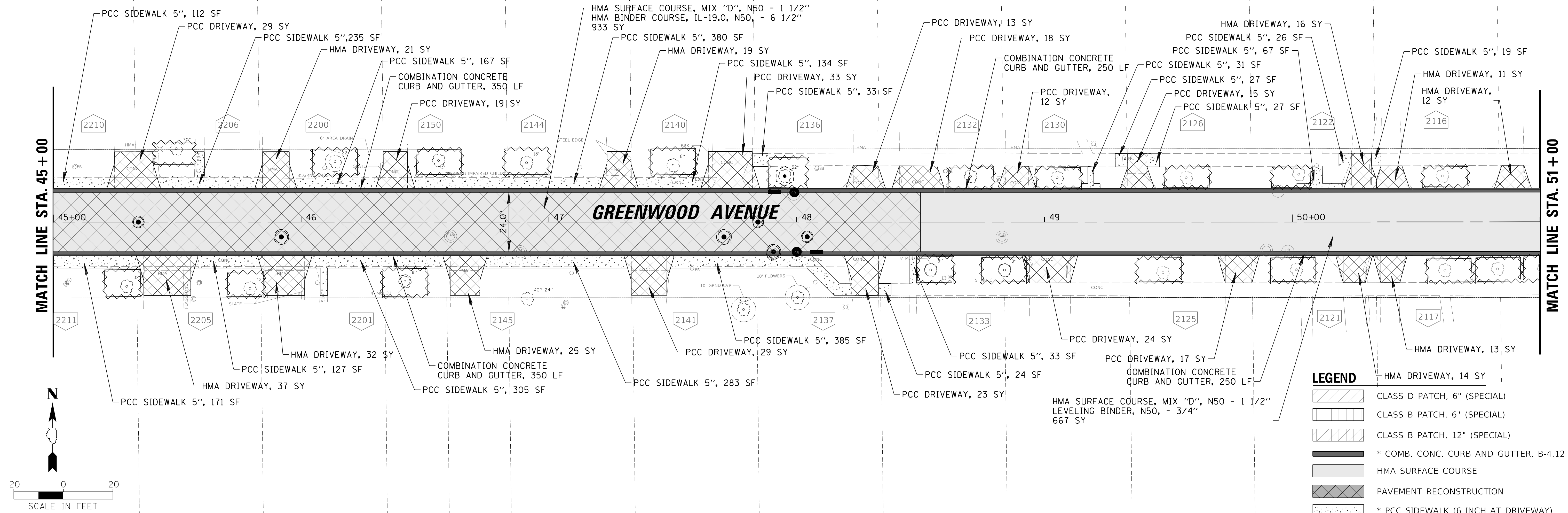
TITLE: **WSNSP CONTRACT #3  
 GREENWOOD AVENUE  
 PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 93 OF 207  
 DRAWING NO. **93**

MATCH LINE STA. 45 + 00

MATCH LINE STA. 51 + 00

# GREENWOOD AVENUE



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
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Rosemont, Illinois 60018  
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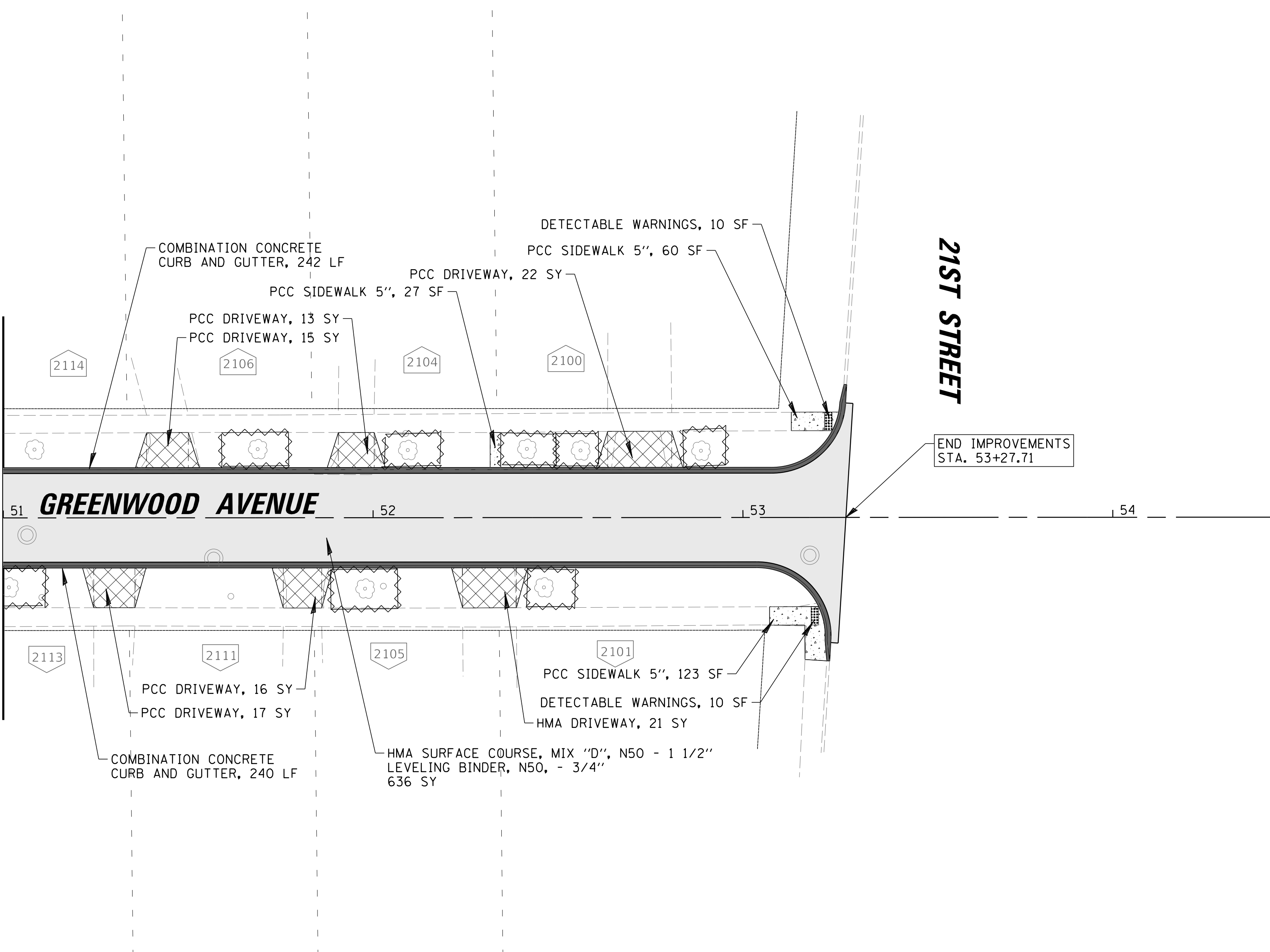
CLIENT: **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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FILE NAME		N:\wilmette\180245.00004\Civil\PRPP-C3.180245_07.sht		

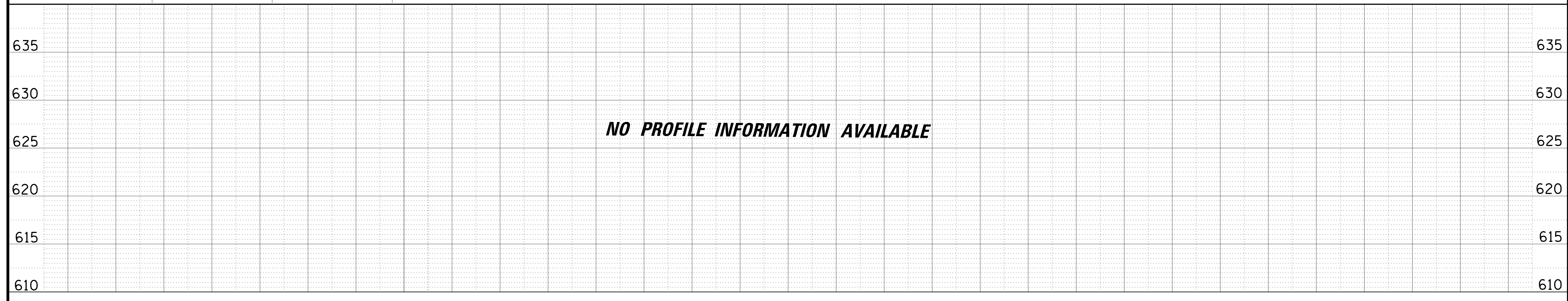
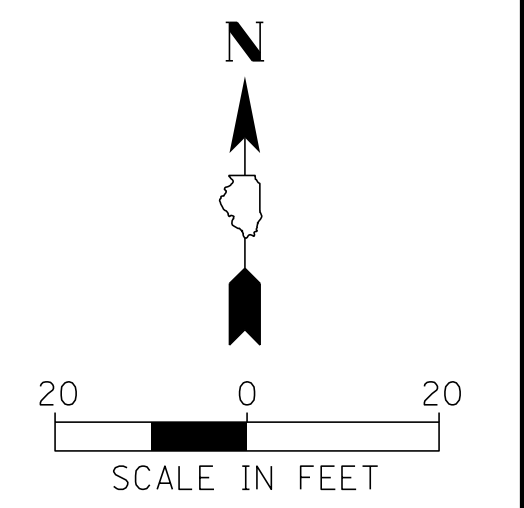
TITLE: **WSNSP CONTRACT #3  
GREENWOOD AVENUE  
PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 94 OF 207  
DRAWING NO. **94**

MATCH LINE STA. 51 + 00



- LEGEND**
- CLASS D PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 12" (SPECIAL)
  - \* COMB. CONC. CURB AND GUTTER, B-4.12
  - HMA SURFACE COURSE
  - PAVEMENT RECONSTRUCTION
  - \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
  - \* DRIVEWAY PAVEMENT
  - DETECTABLE WARNING
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - ( \* AS DIRECTED BY ENGINEER )



**NO PROFILE INFORMATION AVAILABLE**

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

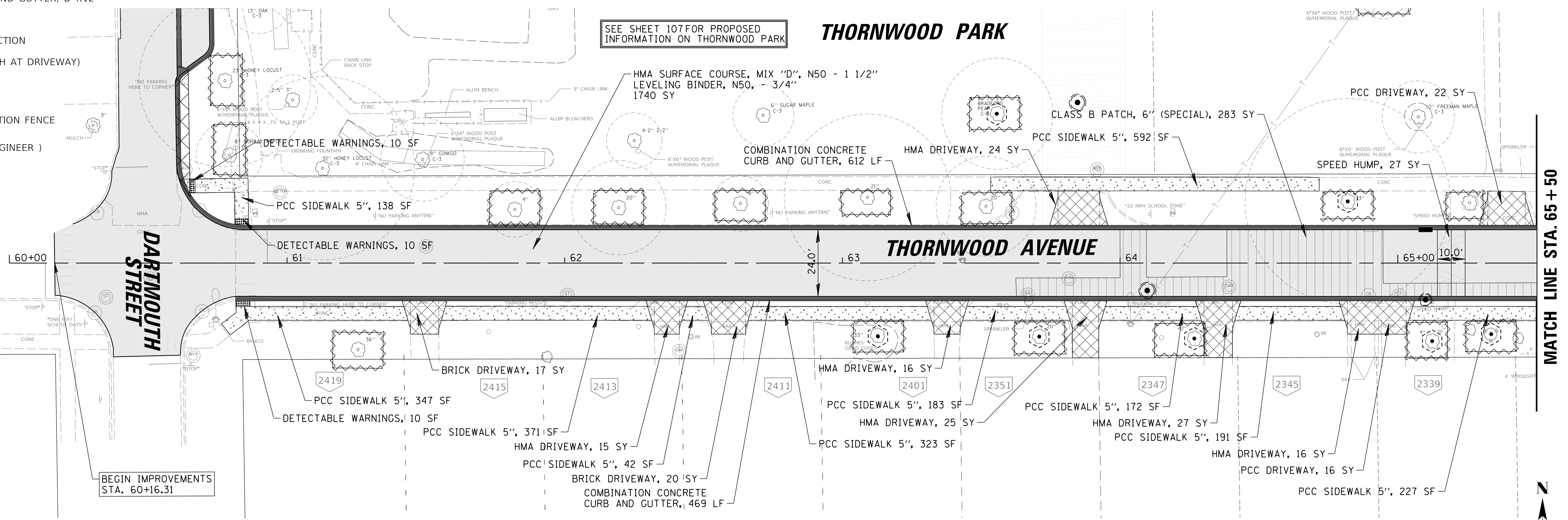
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	Default
FILE NAME		N:\wilmette\180245.00004\Civil\RPP-C3.180245_08.sht		

TITLE: **WSNSP CONTRACT #3  
 GREENWOOD AVENUE  
 PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 95 OF 207  
 DRAWING NO. **95**

**LEGEND**

- CLASS D PATCH, 6" (SPECIAL)
- CLASS B PATCH, 6" (SPECIAL)
- CLASS B PATCH, 12" (SPECIAL)
- \* COMB. CONC. CURB AND GUTTER, B-4.12
- HMA SURFACE COURSE
- PAVEMENT RECONSTRUCTION
- \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
- \* DRIVEWAY PAVEMENT
- DETECTABLE WARNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- ( \* AS DIRECTED BY ENGINEER )

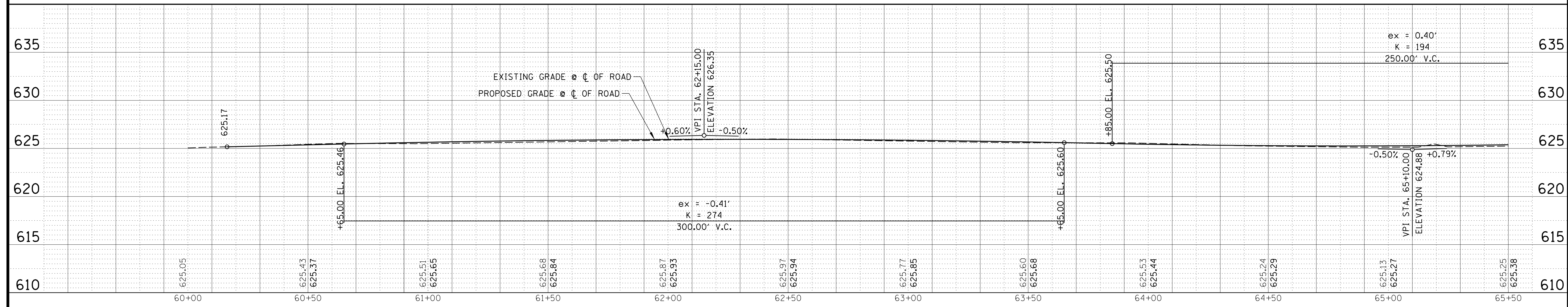
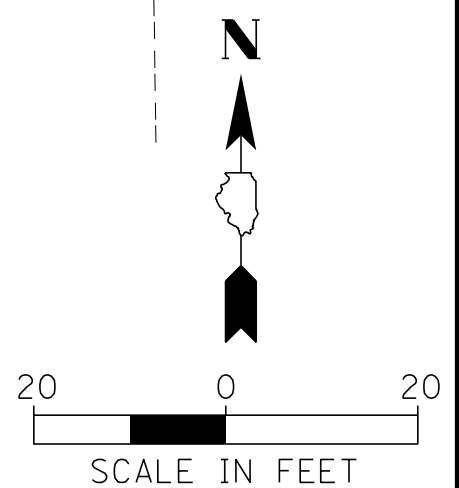


SEE SHEET 107 FOR PROPOSED INFORMATION ON THORNWOOD PARK

**THORNWOOD PARK**

MATCH LINE STA. 65 + 50

BEGIN IMPROVEMENTS STA. 60+16.31



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

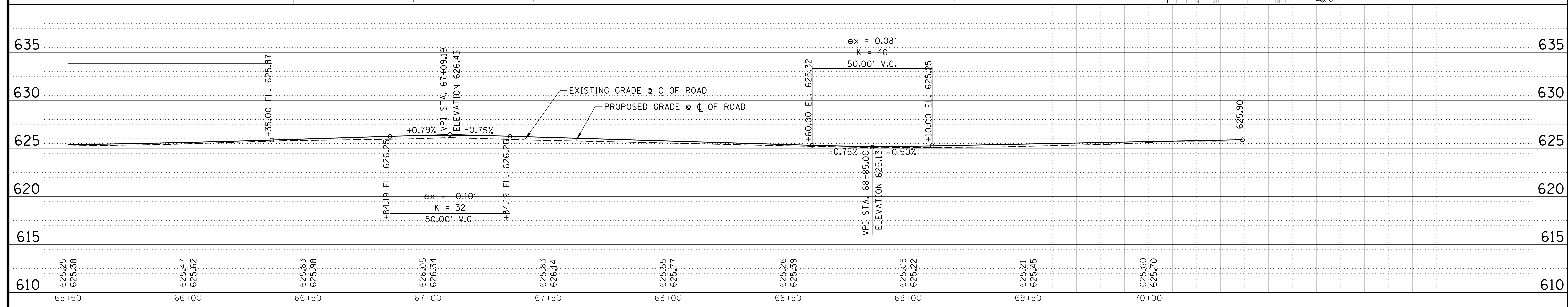
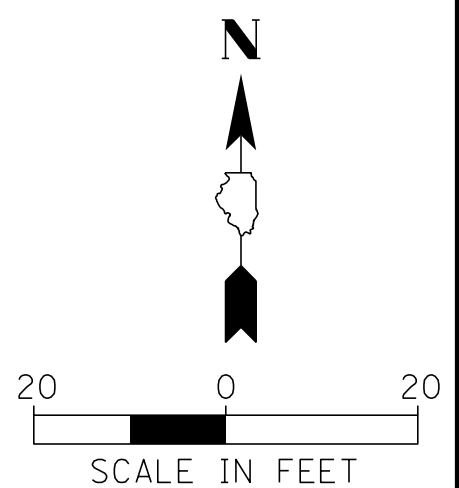
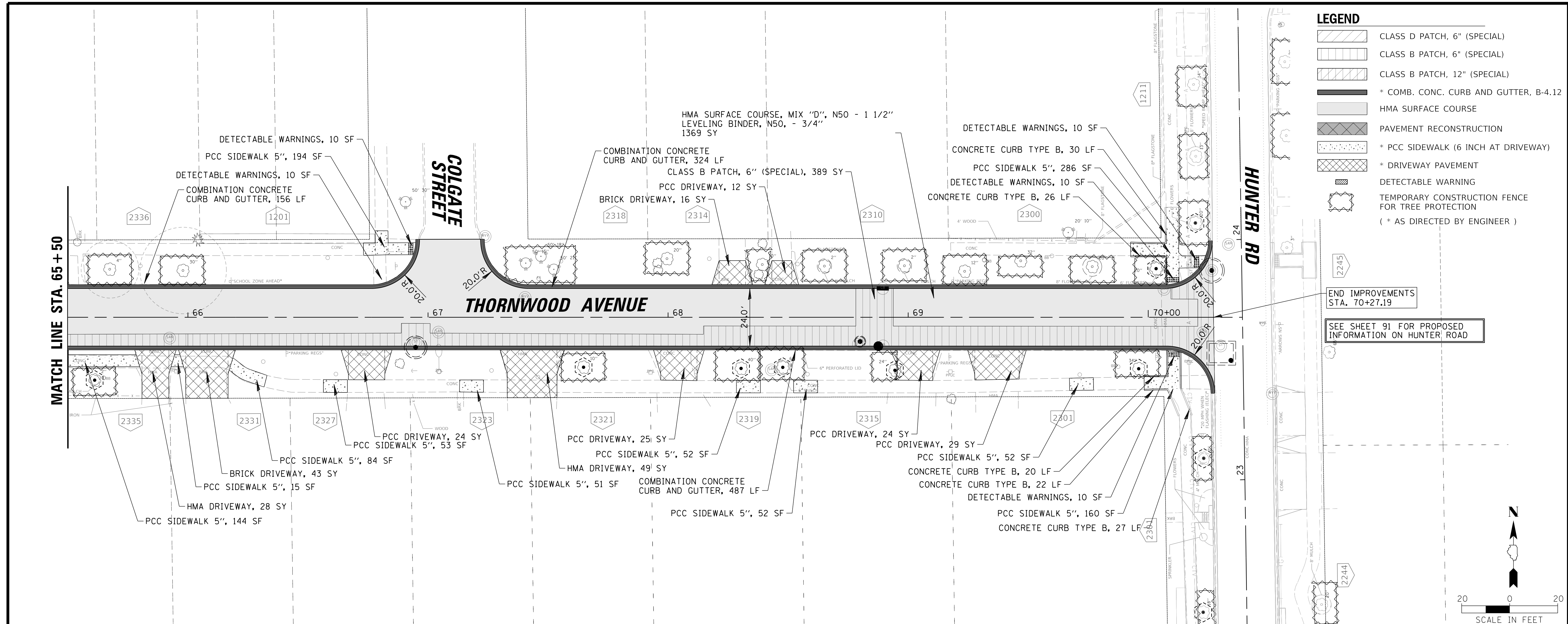
CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	Default

TITLE: **WSNSP CONTRACT #3  
 THORNWOOD AVENUE  
 PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 96 OF 207  
 DRAWING NO. **96**





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 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	Default
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			DWN. MAK	
			CHKD. LMF	
			SCALE: 20'	
			PLOT DATE: 10/8/2021	
			CAD USER: mkoonce	

TITLE: **WSNSP CONTRACT #3  
 THORNWOOD AVENUE  
 PROPOSED PLAN & PROFILE**

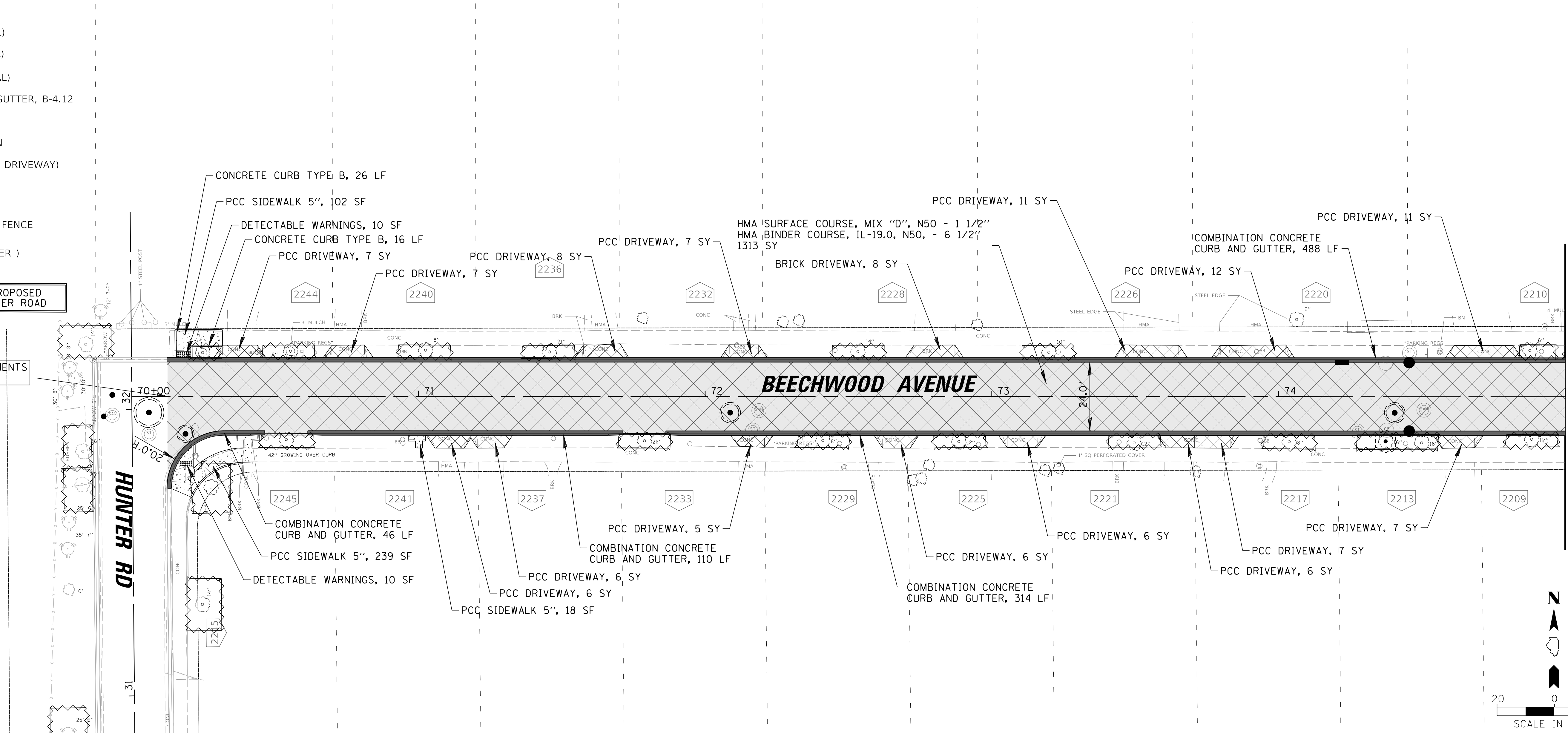
PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 97 OF 207  
 DRAWING NO. **97**

**LEGEND**

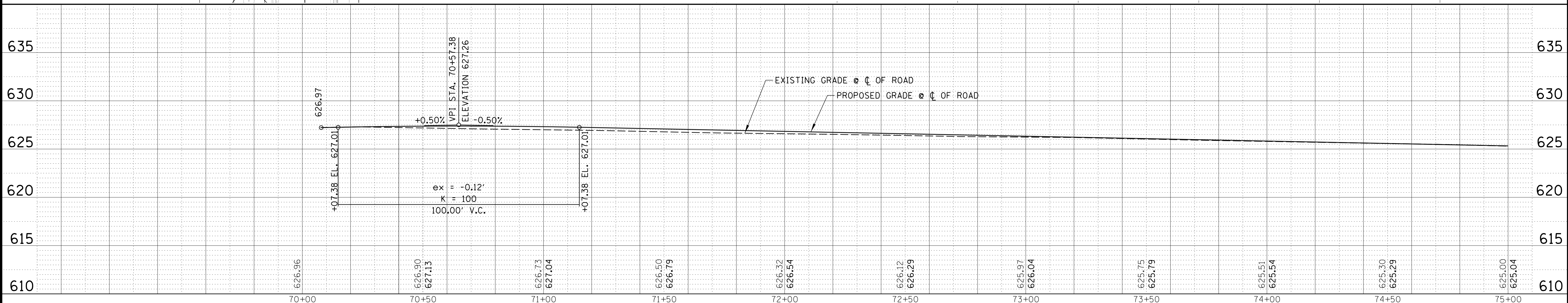
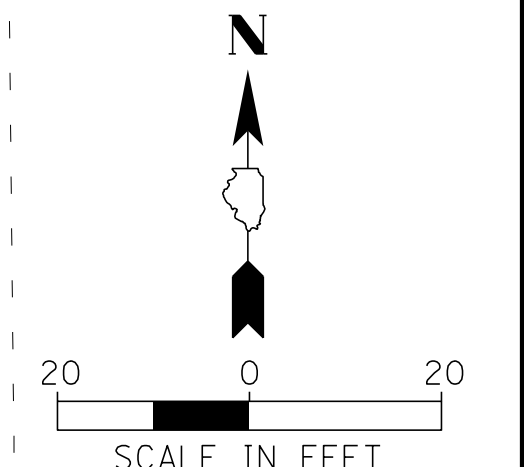
- CLASS D PATCH, 6" (SPECIAL)
- CLASS B PATCH, 6" (SPECIAL)
- CLASS B PATCH, 12" (SPECIAL)
- \* COMB. CONC. CURB AND GUTTER, B-4.12
- HMA SURFACE COURSE
- PAVEMENT RECONSTRUCTION
- \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
- \* DRIVEWAY PAVEMENT
- DETECTABLE WARNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION  
(\* AS DIRECTED BY ENGINEER)

SEE SHEET 92 FOR PROPOSED INFORMATION ON HUNTER ROAD

BEGIN IMPROVEMENTS STA. 70+12.29



MATCH LINE STA. 75+00



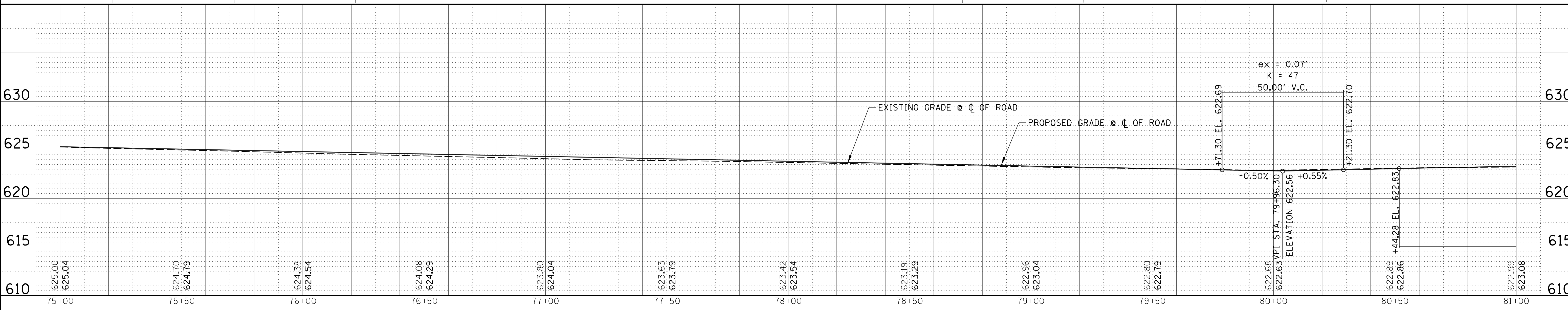
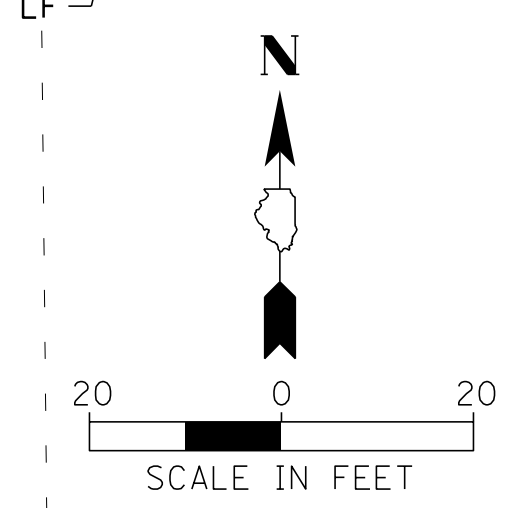
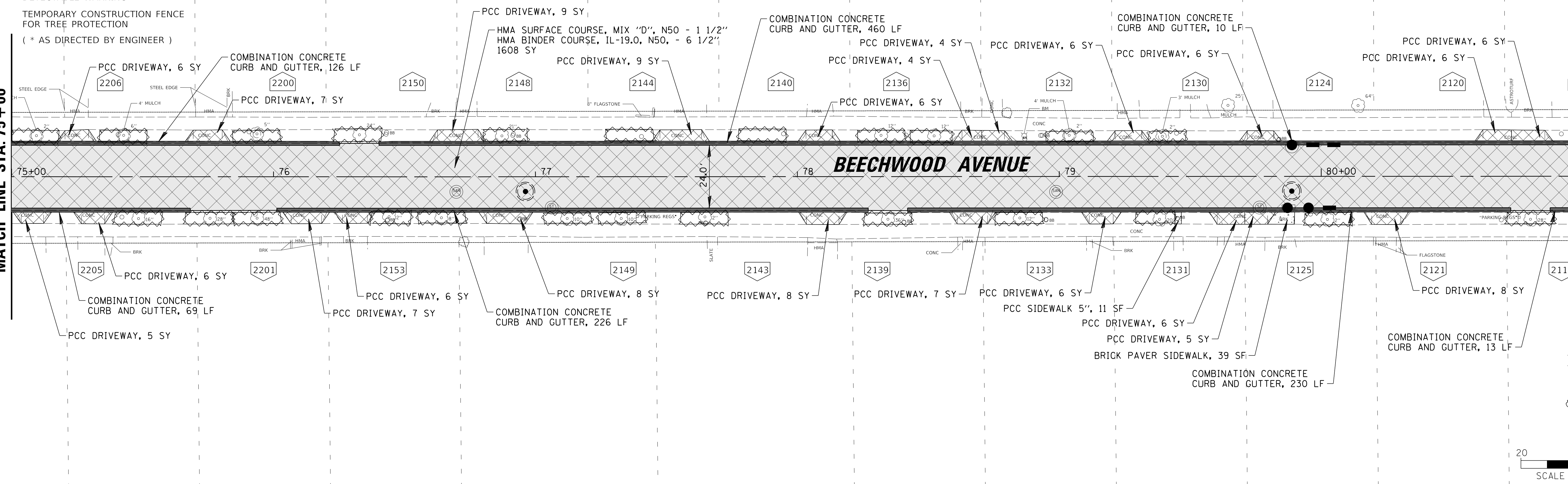
<p><b>CHRISTOPHER B. BURKE ENGINEERING, LTD.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500</p>	<p>CLIENT:</p> <p><b>Village of Wilmette</b> 1200 WILMETTE AVENUE WILMETTE, IL 60091-0040</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>NO.</td> <td>DATE</td> <td>NATURE OF REVISION</td> <td>CHKD.</td> <td>MODEL:</td> </tr> <tr> <td>1</td> <td>7/28/21</td> <td>REVISED PER MWRD COMMENTS</td> <td>MAK</td> <td>Default</td> </tr> </table> <p>FILE NAME: N:\wilmette\180245.00004\Civil\RPP-C3.180245-11.sht</p>	NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:	1	7/28/21	REVISED PER MWRD COMMENTS	MAK	Default	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DSGN.</td> <td>JAL</td> </tr> <tr> <td>DWN.</td> <td>MAK</td> </tr> <tr> <td>CHKD.</td> <td>LMF</td> </tr> <tr> <td>SCALE:</td> <td>20'</td> </tr> <tr> <td>PLOT DATE:</td> <td>10/8/2021</td> </tr> <tr> <td>CAD USER:</td> <td>mkoonce</td> </tr> </table>	DSGN.	JAL	DWN.	MAK	CHKD.	LMF	SCALE:	20'	PLOT DATE:	10/8/2021	CAD USER:	mkoonce	<p>TITLE:</p> <p style="text-align: center;"><b>WSNSP CONTRACT #3 BEECHWOOD AVENUE PROPOSED PLAN &amp; PROFILE</b></p>	<p>PROJ. NO. 180245.0004 DATE: 10/8/2021 SHEET 98 OF 207 DRAWING NO. <b>98</b></p>
			NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:																				
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DSGN.	JAL																										
DWN.	MAK																										
CHKD.	LMF																										
SCALE:	20'																										
PLOT DATE:	10/8/2021																										
CAD USER:	mkoonce																										
<p>70+00      70+50      71+00      71+50      72+00      72+50      73+00      73+50      74+00      74+50      75+00</p>																											

**LEGEND**

- CLASS D PATCH, 6" (SPECIAL)
- CLASS B PATCH, 6" (SPECIAL)
- CLASS B PATCH, 12" (SPECIAL)
- \* COMB. CONC. CURB AND GUTTER, B-4.12
- HMA SURFACE COURSE
- PAVEMENT RECONSTRUCTION
- \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
- \* DRIVEWAY PAVEMENT
- DETECTABLE WARNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION  
(\* AS DIRECTED BY ENGINEER)

MATCH LINE STA. 75 + 00

MATCH LINE STA. 81 + 00



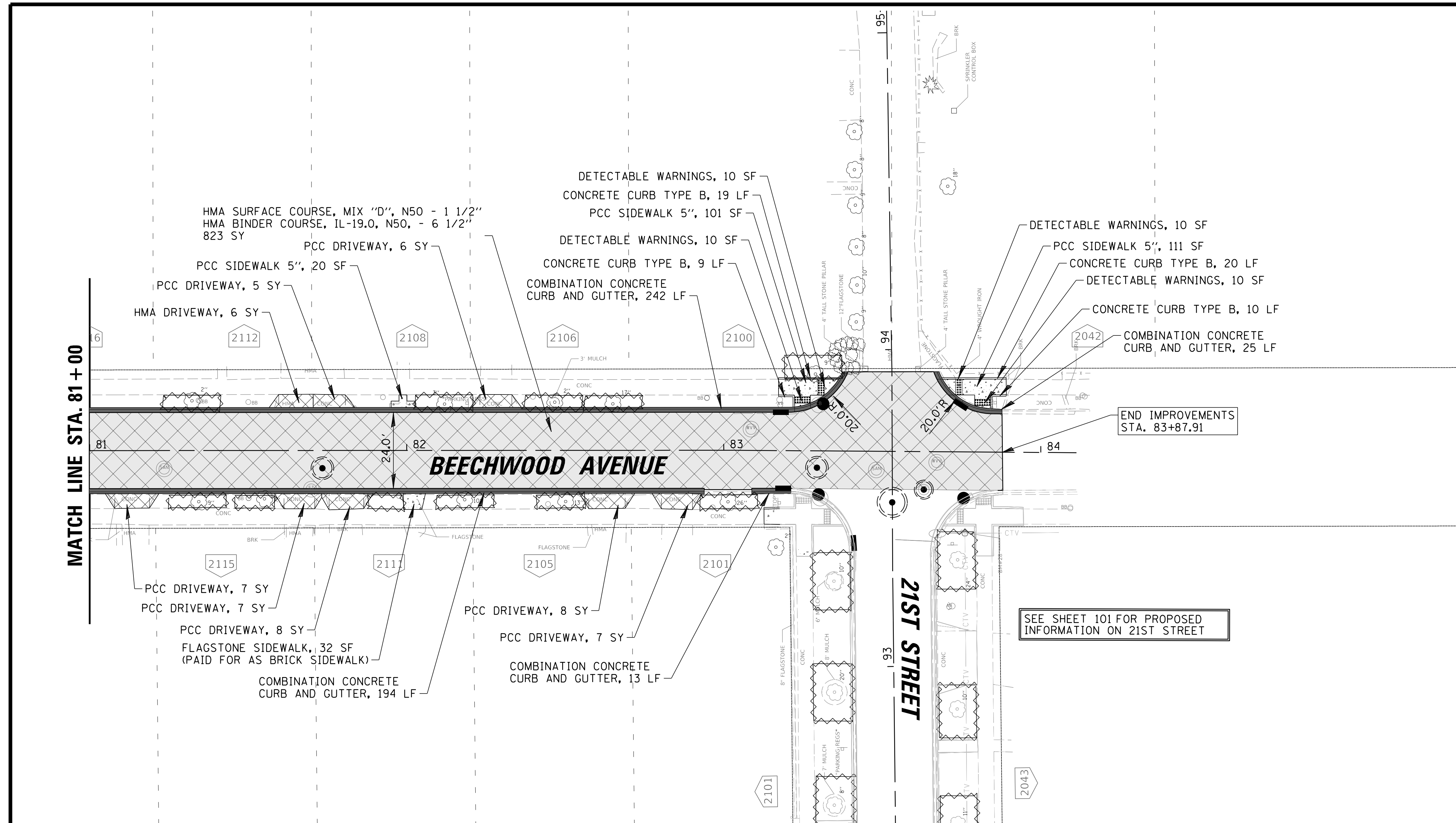
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	Default
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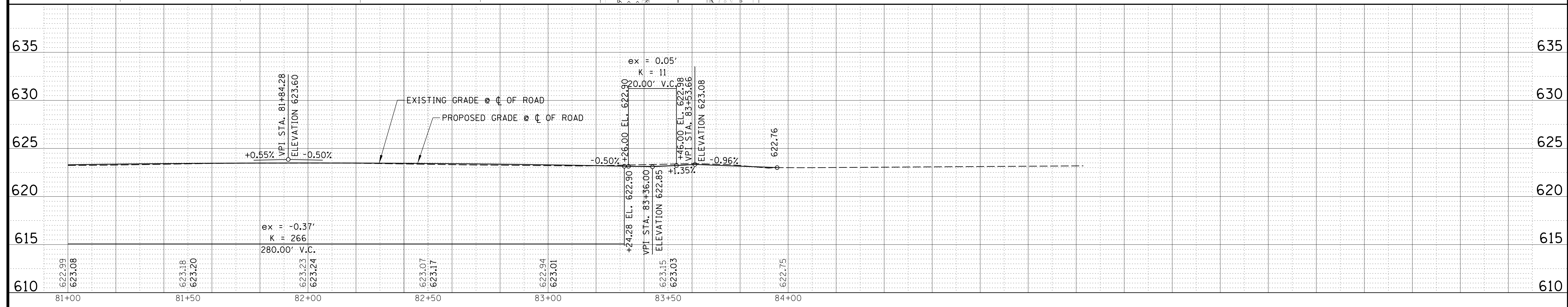
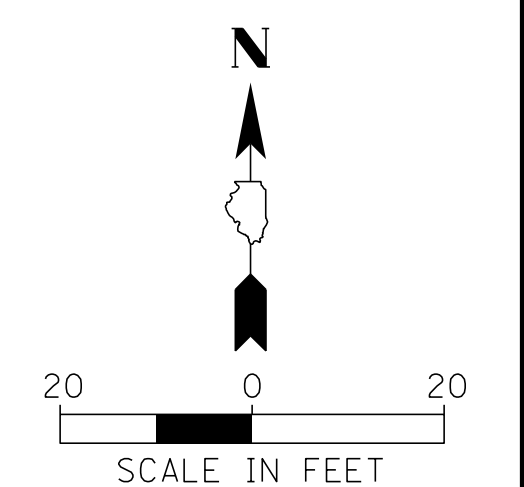
TITLE: **WSNSP CONTRACT #3  
 BEECHWOOD AVENUE  
 PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 99 OF 207  
 DRAWING NO. **99**



**LEGEND**

	CLASS D PATCH, 6" (SPECIAL)
	CLASS B PATCH, 6" (SPECIAL)
	CLASS B PATCH, 12" (SPECIAL)
	* COMB. CONC. CURB AND GUTTER, B-4.12
	HMA SURFACE COURSE
	PAVEMENT RECONSTRUCTION
	* PCC SIDEWALK (6 INCH AT DRIVEWAY)
	* DRIVEWAY PAVEMENT
	DETECTABLE WARNING
	TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION (* AS DIRECTED BY ENGINEER)



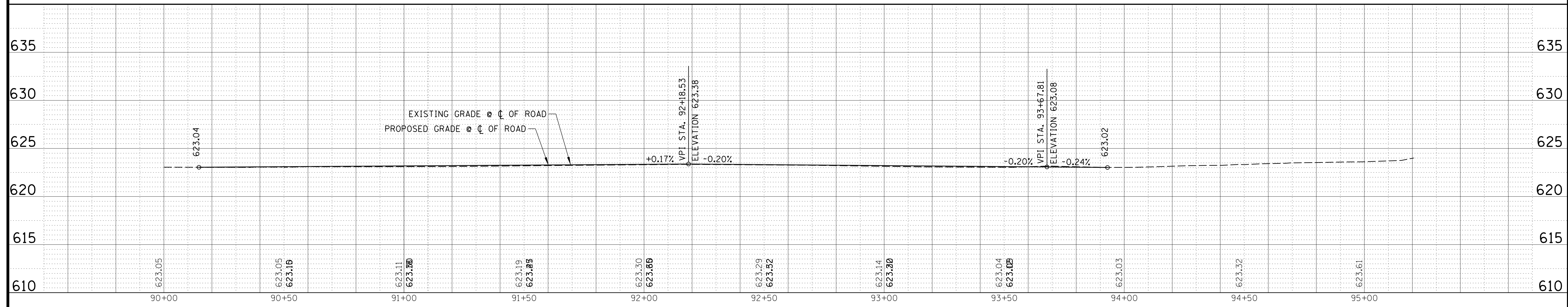
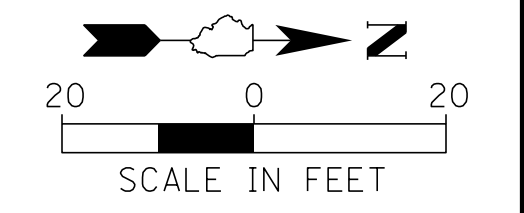
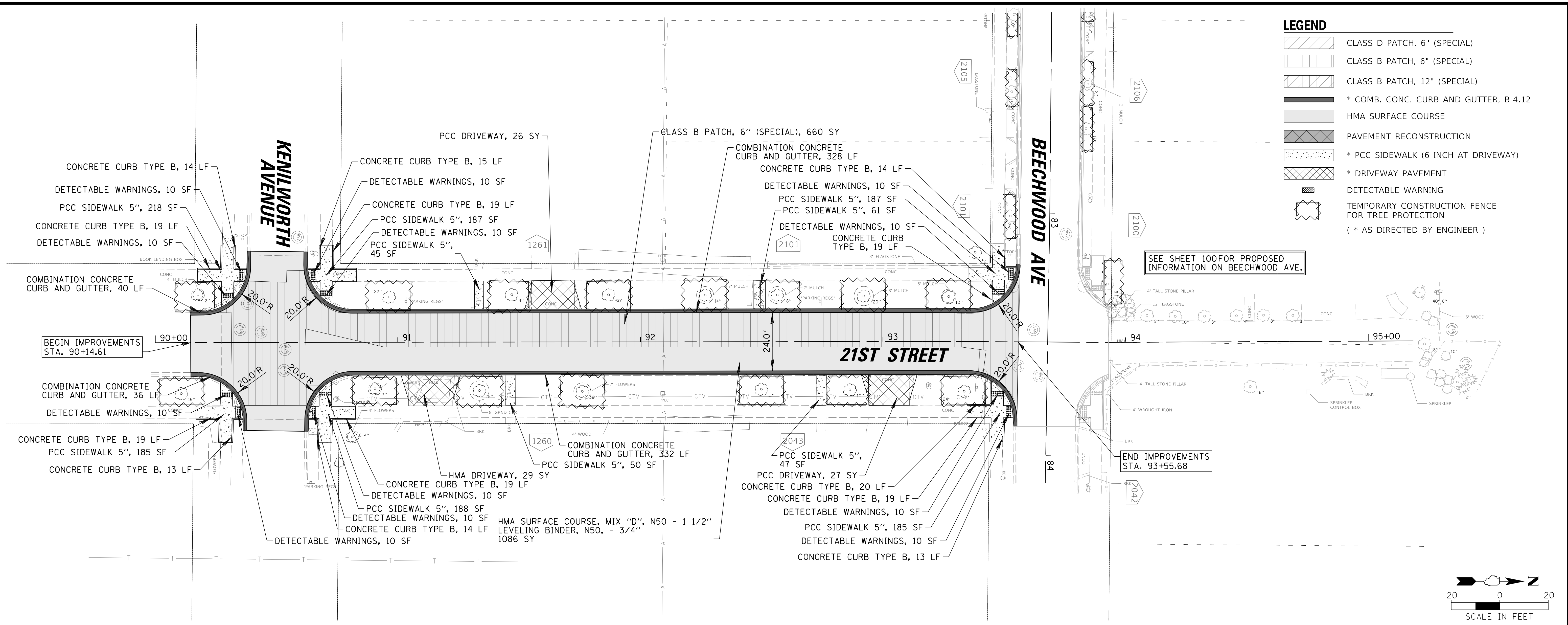
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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TITLE: **WSNSP CONTRACT #3  
 BEECHWOOD AVENUE  
 PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 100 OF 207  
 DRAWING NO. **100**



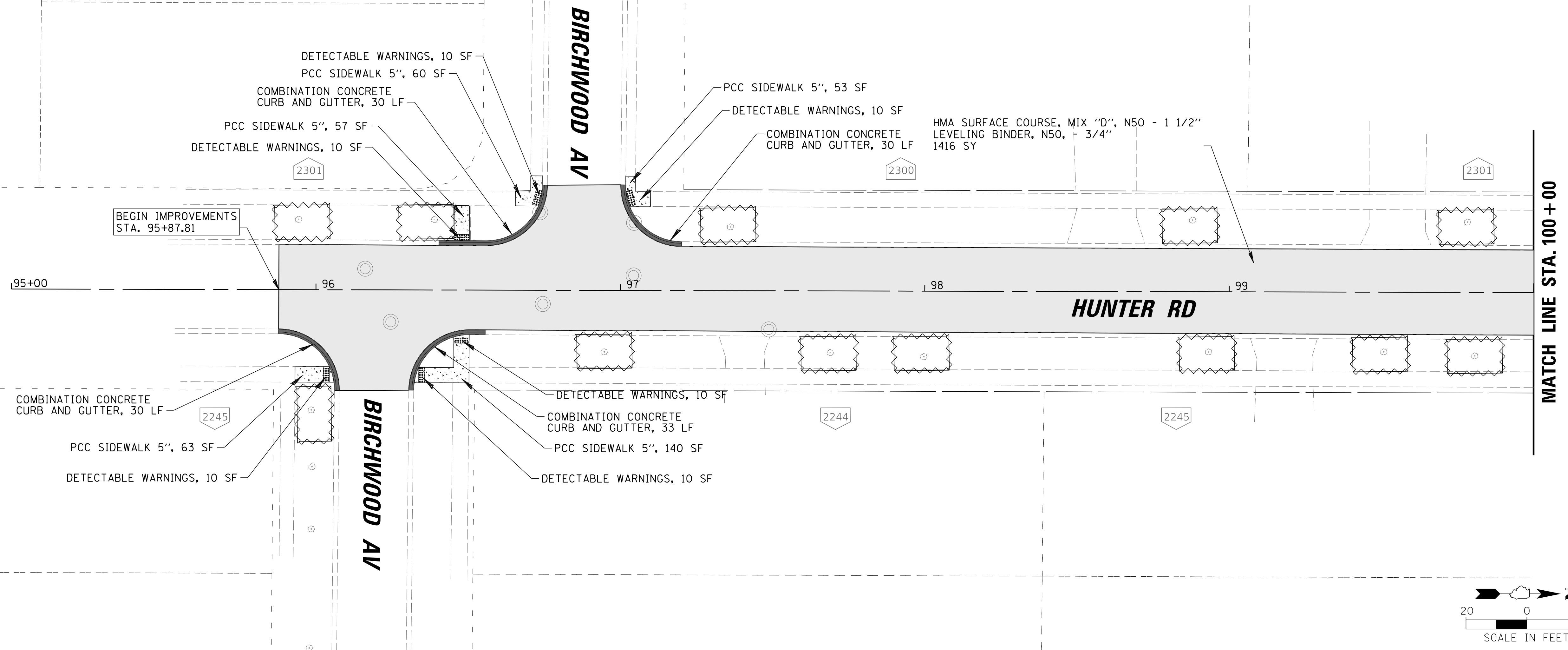
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

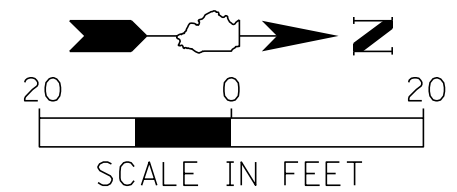
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TITLE: **WSNSP CONTRACT #3**  
**21ST STREET**  
**PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 101 OF 207  
 DRAWING NO. **101**



- LEGEND**
- CLASS D PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 12" (SPECIAL)
  - \* COMB. CONC. CURB AND GUTTER, B-4.12
  - HMA SURFACE COURSE
  - PAVEMENT RECONSTRUCTION
  - \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
  - \* DRIVEWAY PAVEMENT
  - DETECTABLE WARNING
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- ( \* AS DIRECTED BY ENGINEER )



**NO PROFILE INFORMATION AVAILABLE**

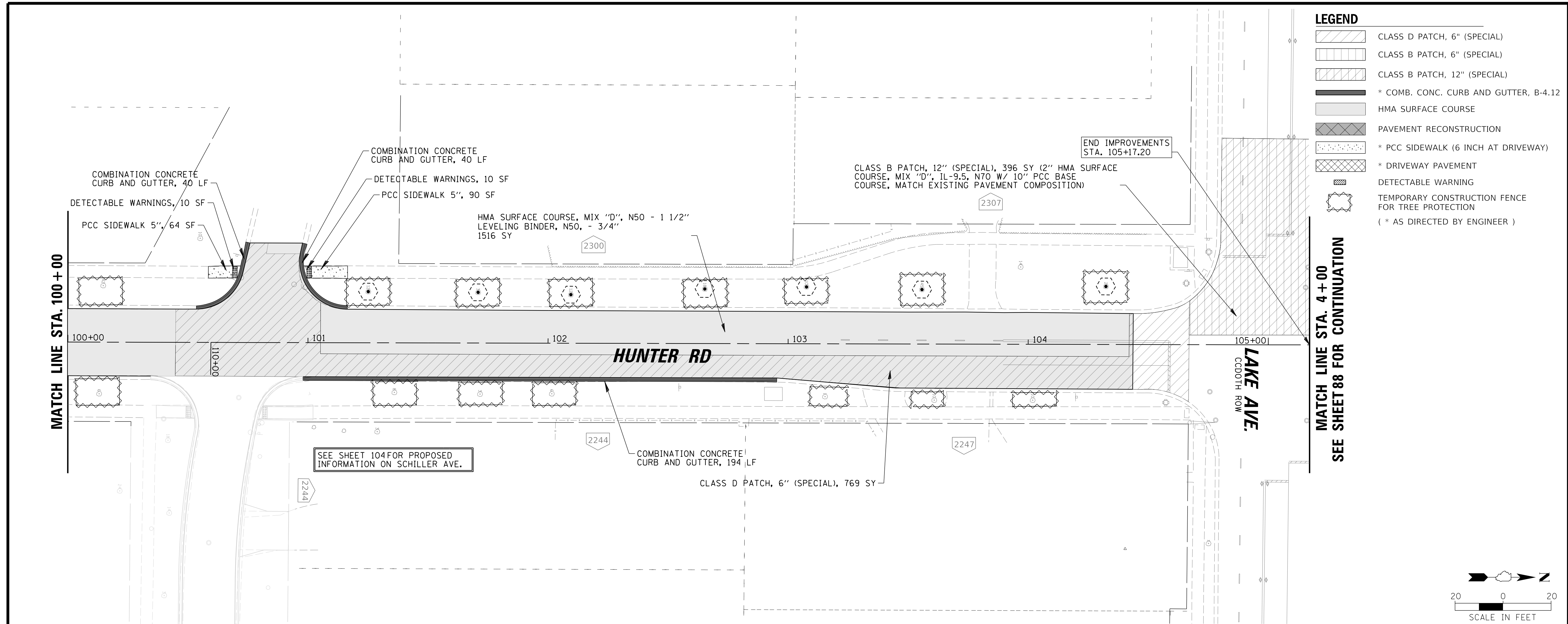
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\RPP-C3.180245_15.sht		

TITLE: **WSNSP CONTRACT #3  
 HUNTER ROAD  
 PROPOSED PLAN & PROFILE**

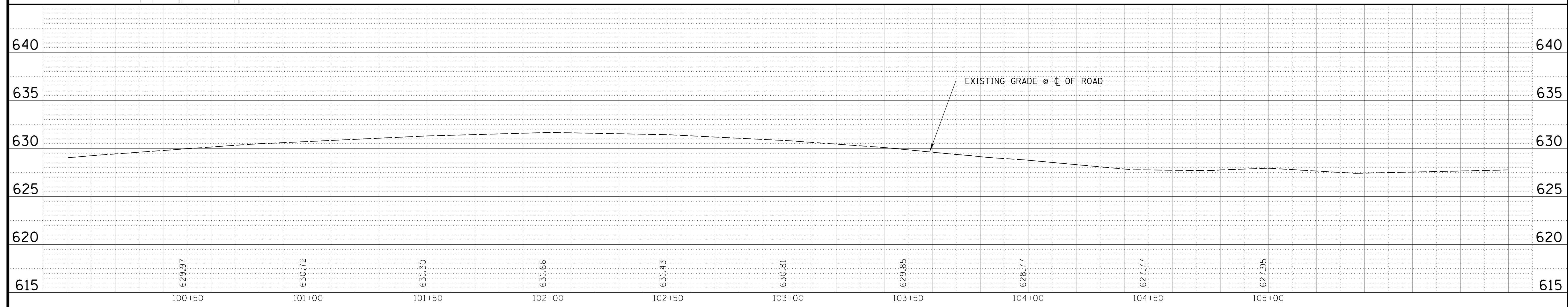
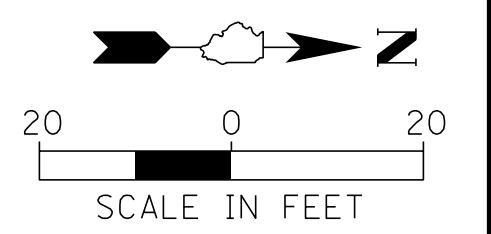
PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 102 OF 207  
 DRAWING NO. **102**



- LEGEND**
- CLASS D PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 12" (SPECIAL)
  - \* COMB. CONC. CURB AND GUTTER, B-4.12
  - HMA SURFACE COURSE
  - PAVEMENT RECONSTRUCTION
  - \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
  - \* DRIVEWAY PAVEMENT
  - DETECTABLE WARNING
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - ( \* AS DIRECTED BY ENGINEER )

SEE SHEET 104 FOR PROPOSED INFORMATION ON SCHILLER AVE.

MATCH LINE STA. 4+00  
SEE SHEET 88 FOR CONTINUATION



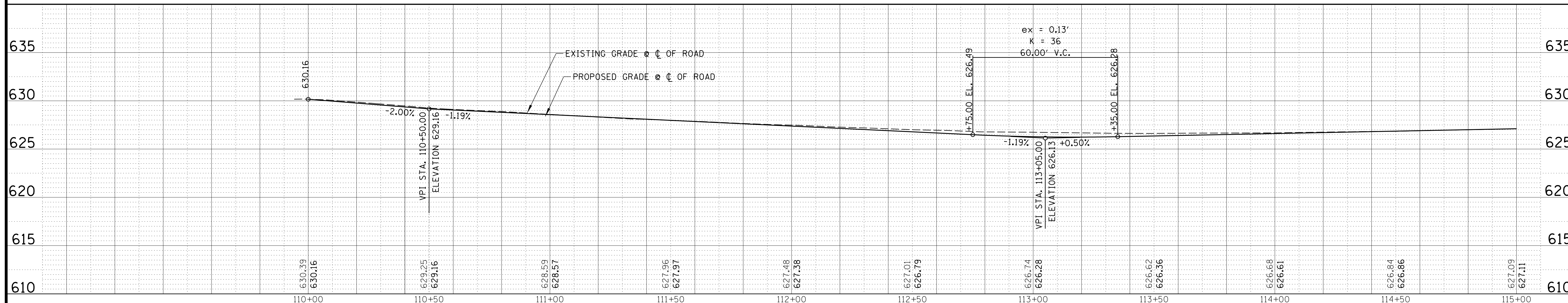
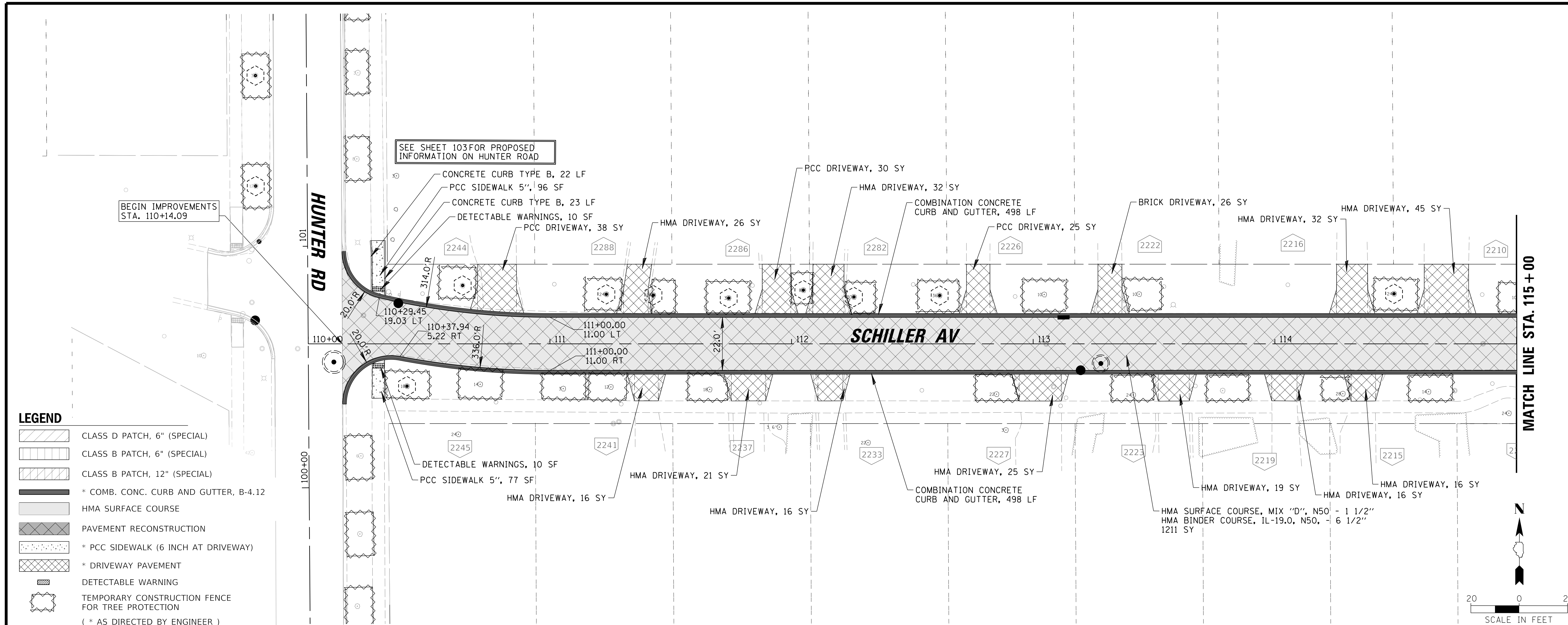
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

CLIENT:  
 **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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TITLE: **WSNSP CONTRACT #3  
HUNTER ROAD  
PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 103 OF 207  
DRAWING NO. **103**



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:  
  
**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

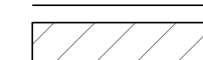

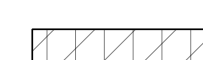
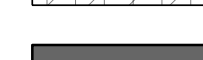



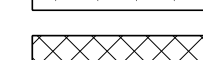


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FILE NAME		N:\wilmette\180245.00004\Civil\PRPP_C3.180245.17.sht		

TITLE:  
**WSNSP CONTRACT #3**  
**SCHILLER AVENUE**  
**PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 104 OF 207  
 DRAWING NO.  
**104**

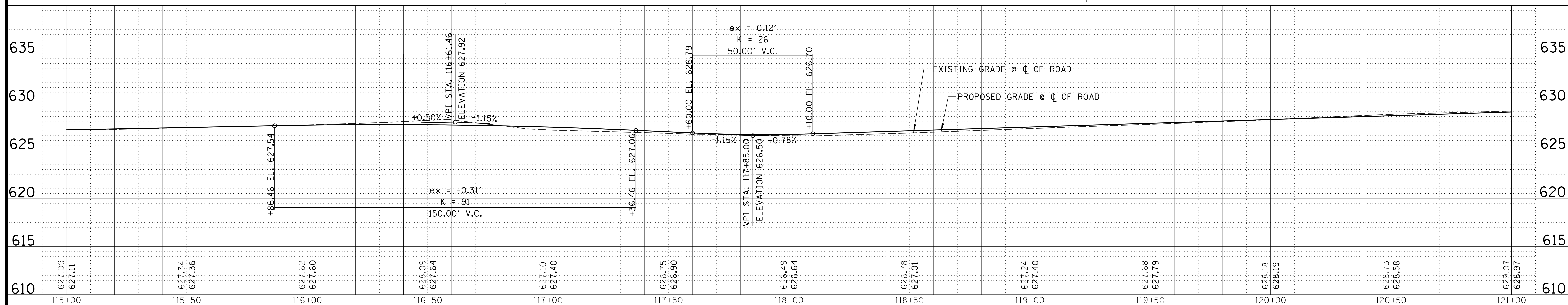
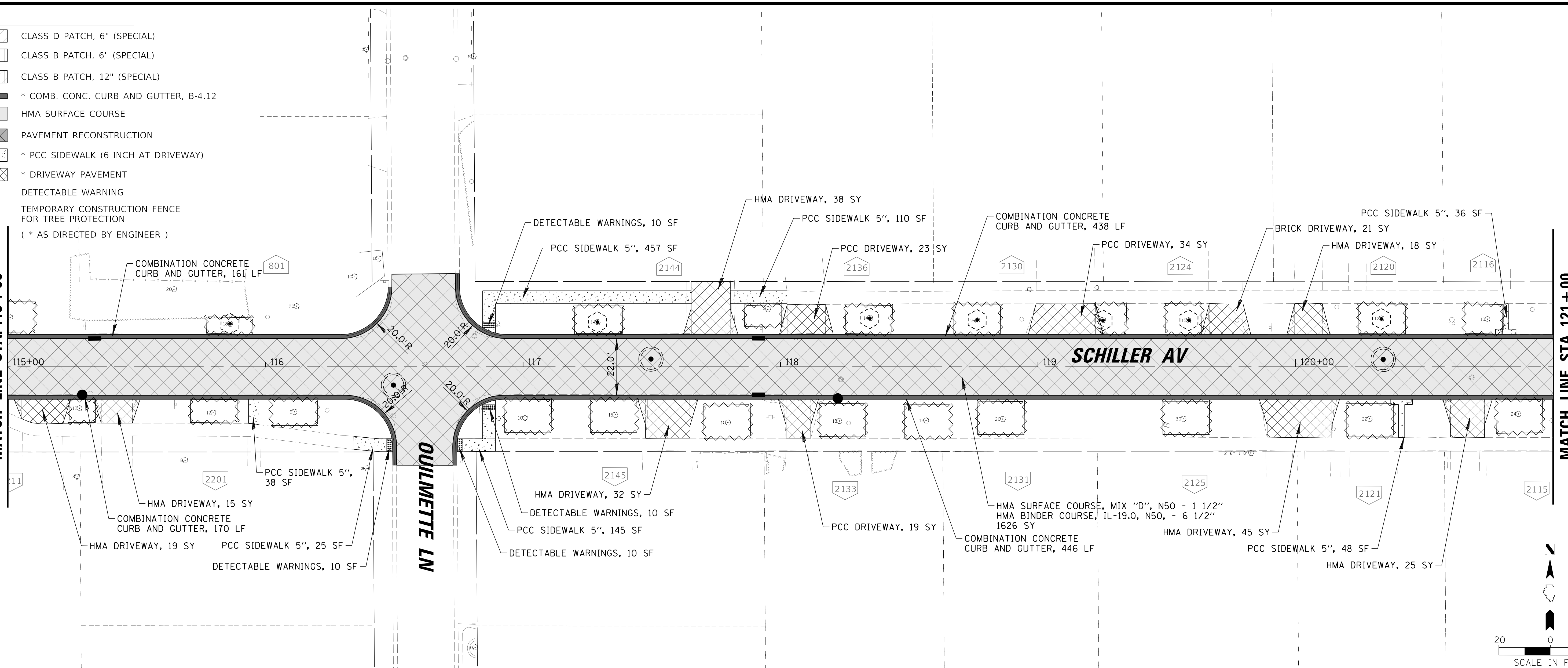


**LEGEND**

-  CLASS D PATCH, 6" (SPECIAL)
-  CLASS B PATCH, 6" (SPECIAL)
-  CLASS B PATCH, 12" (SPECIAL)
-  \* COMB. CONC. CURB AND GUTTER, B-4.12
-  HMA SURFACE COURSE
-  PAVEMENT RECONSTRUCTION
-  \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
-  \* DRIVEWAY PAVEMENT
-  DETECTABLE WARNING
-  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- ( \* AS DIRECTED BY ENGINEER )

MATCH LINE STA. 115 + 00

MATCH LINE STA. 121 + 00



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
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 (847) 823-0500

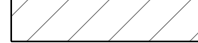
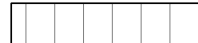
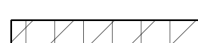
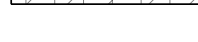






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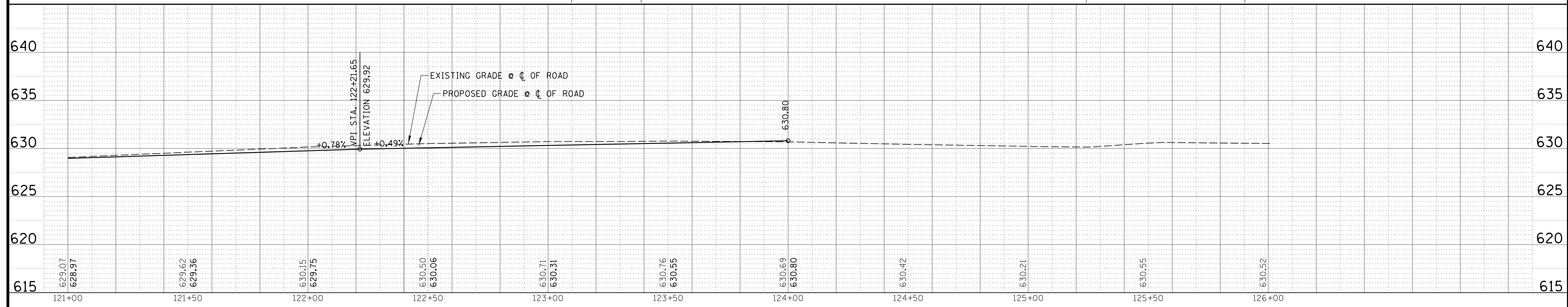
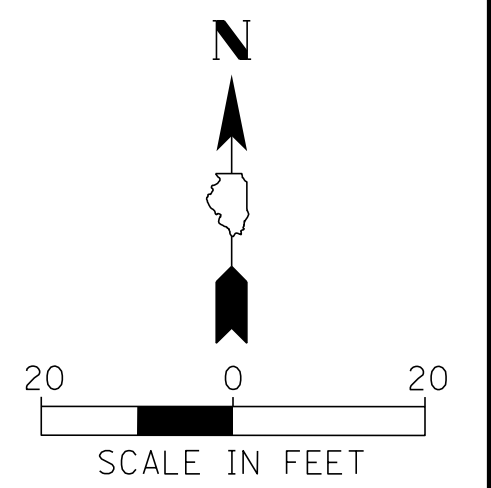
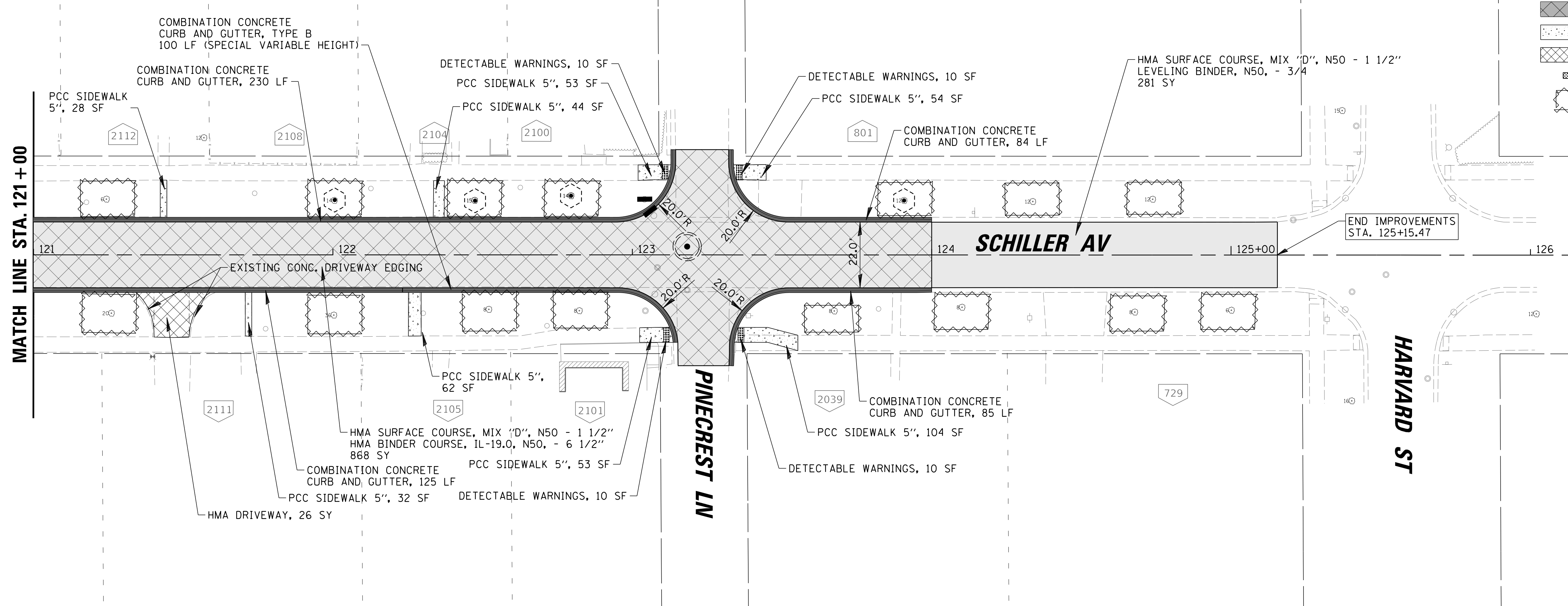


**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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DSGN.	JAL	TITLE:	PROJ. NO. 180245.0004
DWN.	MAK		
CHKD.	LMF	DATE: 10/8/2021	SHEET 105 OF 207
SCALE:	20'		
PLOT DATE:	10/8/2021	DRAWING NO.	105
CAD USER:	mkoonce		
MODEL:	Default	<p style="text-align: center;"><b>WSNSP CONTRACT #3</b>  <b>SCHILLER AVENUE</b>  <b>PROPOSED PLAN &amp; PROFILE</b></p>	

- LEGEND**
-  CLASS D PATCH, 6" (SPECIAL)
  -  CLASS B PATCH, 6" (SPECIAL)
  -  CLASS B PATCH, 12" (SPECIAL)
  -  \* COMB. CONC. CURB AND GUTTER, B-4.12
  -  HMA SURFACE COURSE
  -  PAVEMENT RECONSTRUCTION
  -  \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
  -  \* DRIVEWAY PAVEMENT
  -  DETECTABLE WARNING
  -  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - ( \* AS DIRECTED BY ENGINEER )



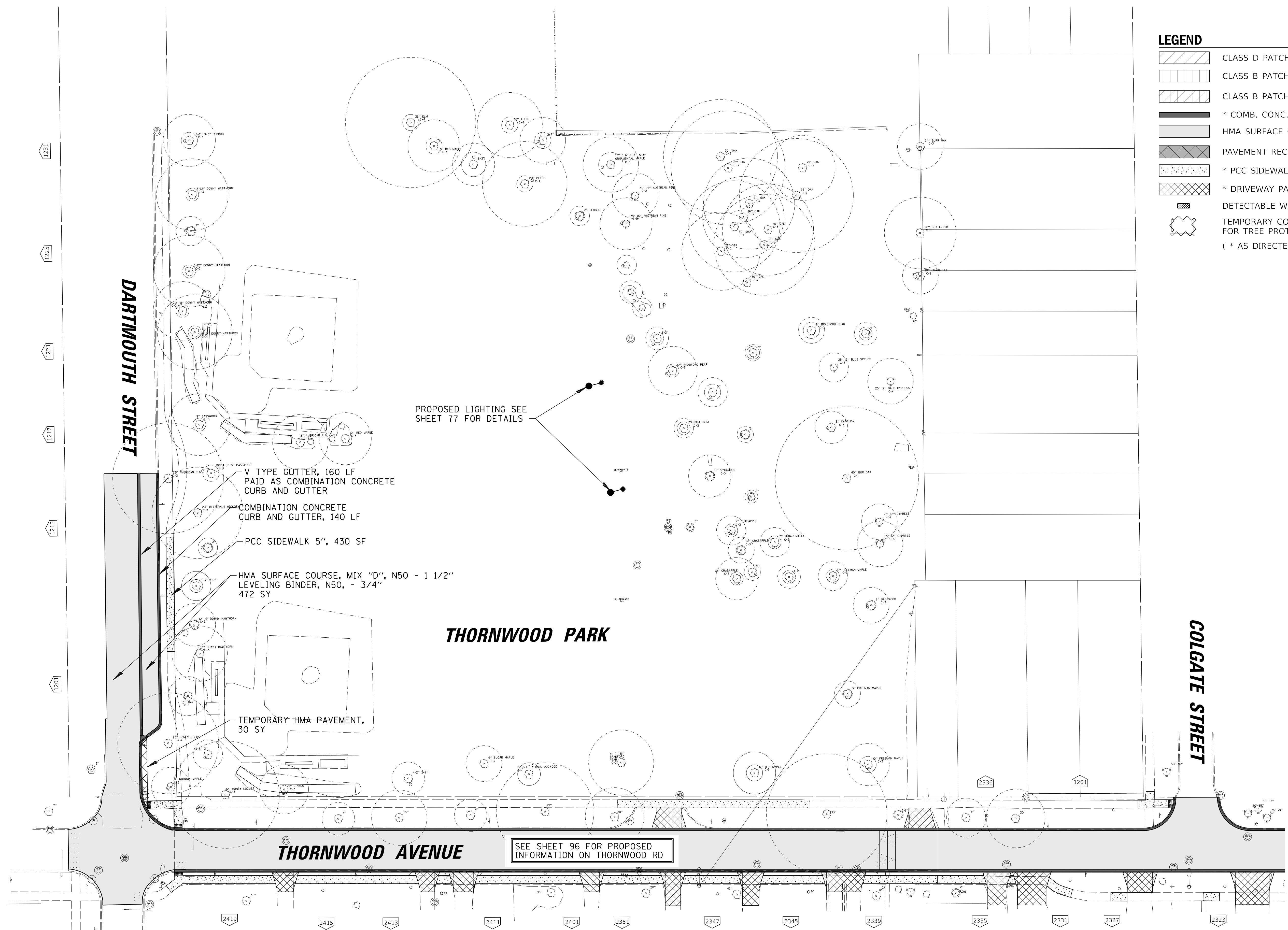
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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TITLE: **WSNSP CONTRACT #3  
 SCHILLER AVENUE  
 PROPOSED PLAN & PROFILE**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 106 OF 207  
 DRAWING NO. **106**



- LEGEND**
- CLASS D PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 12" (SPECIAL)
  - \* COMB. CONC. CURB AND GUTTER, B-4.12
  - HMA SURFACE COURSE
  - PAVEMENT RECONSTRUCTION
  - \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
  - \* DRIVEWAY PAVEMENT
  - DETECTABLE WARNING
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - ( \* AS DIRECTED BY ENGINEER )

**DARTMOUTH STREET**

**COLGATE STREET**

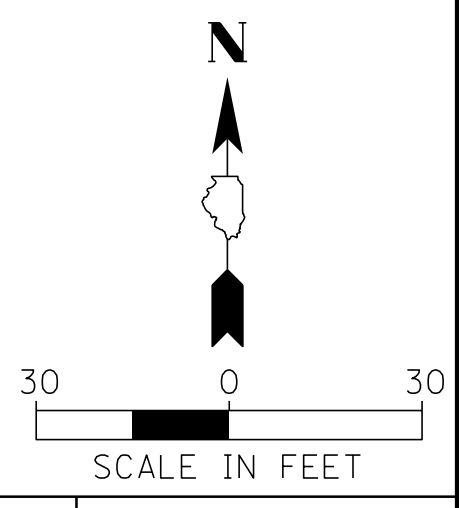
**THORNWOOD PARK**

**THORNWOOD AVENUE**

PROPOSED LIGHTING SEE SHEET 77 FOR DETAILS

SEE SHEET 96 FOR PROPOSED INFORMATION ON THORNWOOD RD

- V TYPE GUTTER, 160 LF PAID AS COMBINATION CONCRETE CURB AND GUTTER
- COMBINATION CONCRETE CURB AND GUTTER, 140 LF
- PCC SIDEWALK 5", 430 SF
- HMA SURFACE COURSE, MIX "D", N50 - 1 1/2" LEVELING BINDER, N50, - 3/4" 472 SY
- TEMPORARY HMA PAVEMENT, 30 SY



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 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

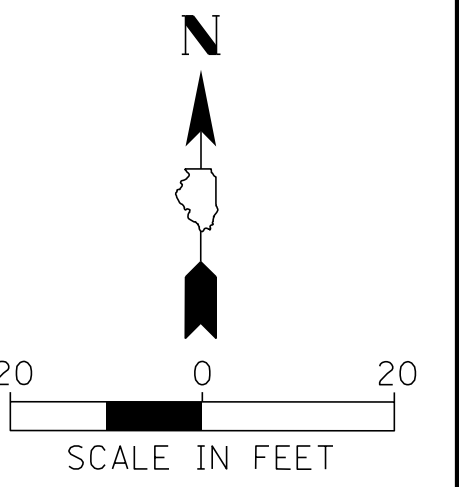
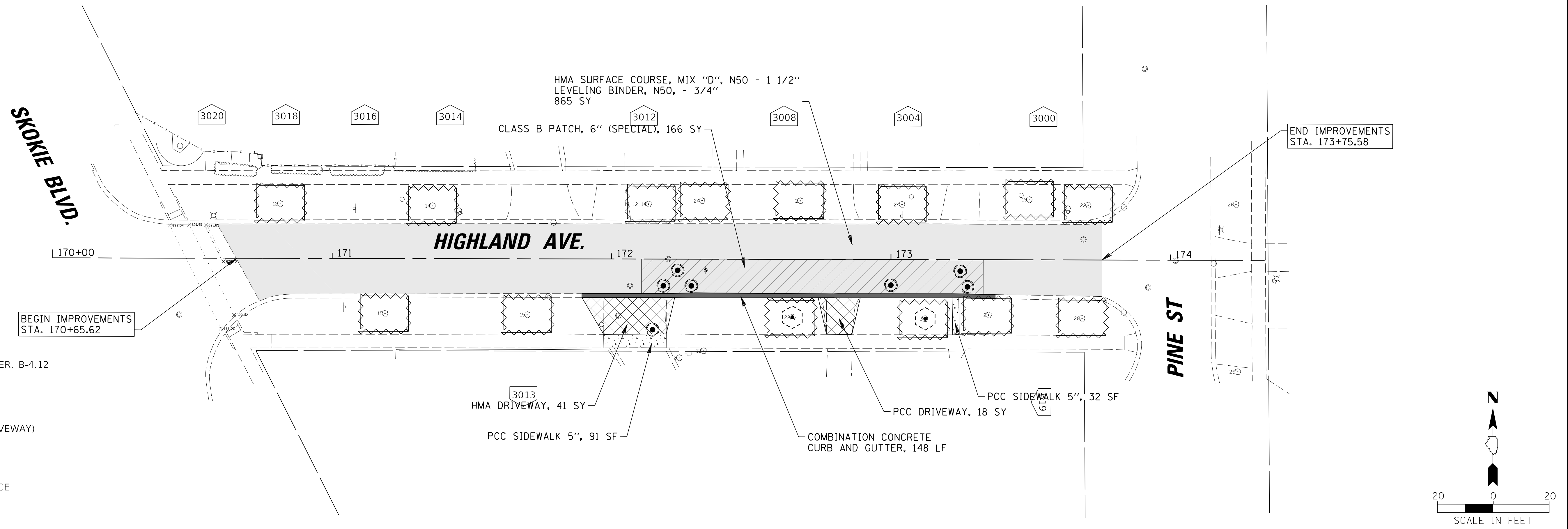
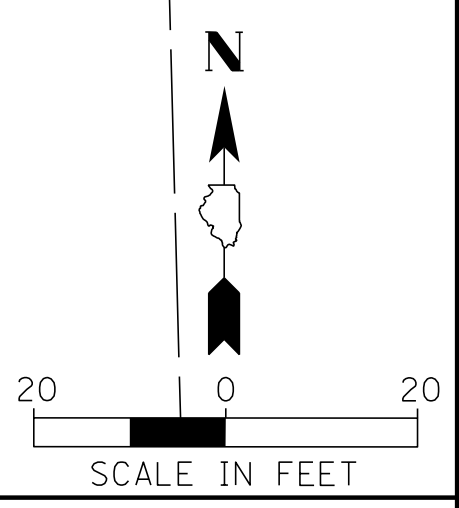
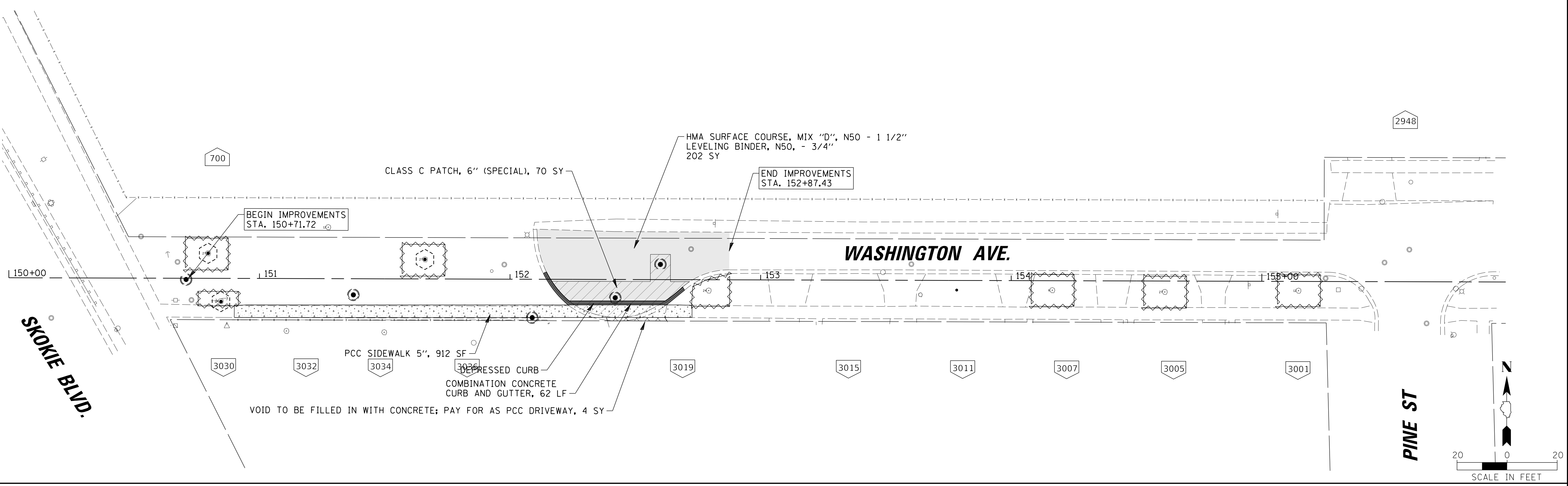
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

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FILE NAME		N:\wilmette\180245.0004\Civil\PRO_C3_180245_10.sht		

TITLE: **WSNSP CONTRACT #3  
 THORNWOOD PARK  
 PROPOSED IMPROVEMENT PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 107 OF 207  
 DRAWING NO. **107**



- LEGEND**
- CLASS D PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 6" (SPECIAL)
  - CLASS B PATCH, 12" (SPECIAL)
  - \* COMB. CONC. CURB AND GUTTER, B-4.12
  - HMA SURFACE COURSE
  - PAVEMENT RECONSTRUCTION
  - \* PCC SIDEWALK (6 INCH AT DRIVEWAY)
  - \* DRIVEWAY PAVEMENT
  - DETECTABLE WARNING
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - ( \* AS DIRECTED BY ENGINEER )

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**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	CHKD.	MODEL:
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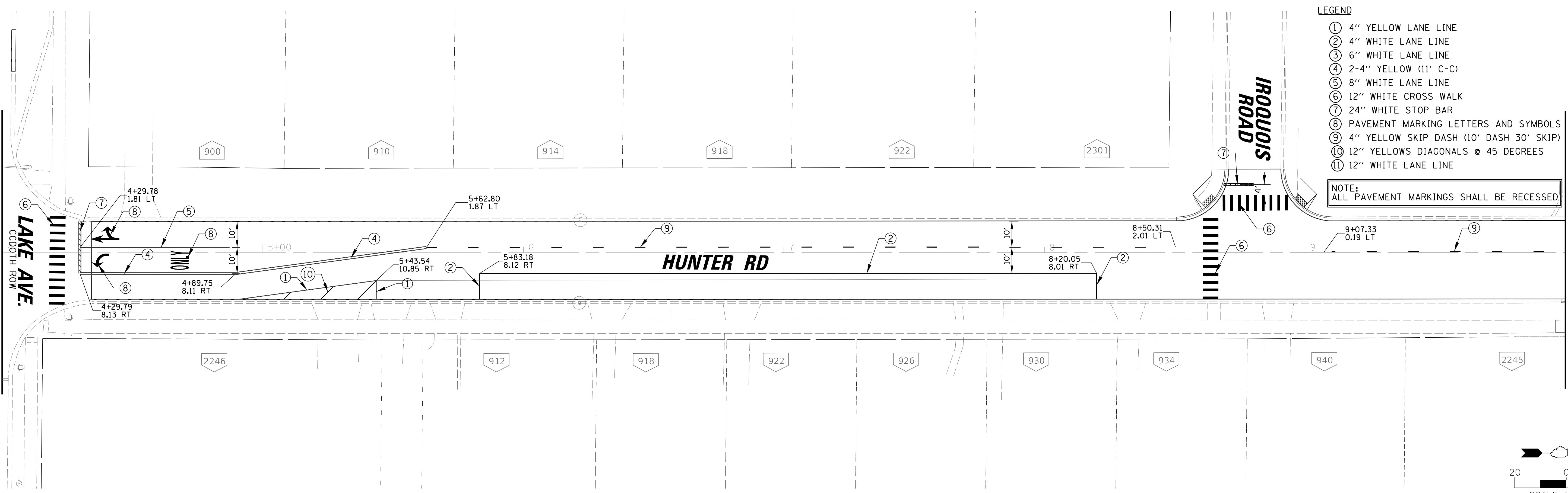
TITLE: **WSNSP CONTRACT #3  
 WASHINGTON & HIGHLAND AVE.  
 PROPOSED IMPROVEMENT PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 108 OF 207  
 DRAWING NO.  
**108**

- LEGEND**
- ① 4" YELLOW LANE LINE
  - ② 4" WHITE LANE LINE
  - ③ 6" WHITE LANE LINE
  - ④ 2-4" YELLOW (11' C-C)
  - ⑤ 8" WHITE LANE LINE
  - ⑥ 12" WHITE CROSS WALK
  - ⑦ 24" WHITE STOP BAR
  - ⑧ PAVEMENT MARKING LETTERS AND SYMBOLS
  - ⑨ 4" YELLOW SKIP DASH (10' DASH 30' SKIP)
  - ⑩ 12" YELLOWS DIAGONALS @ 45 DEGREES
  - ⑪ 12" WHITE LANE LINE

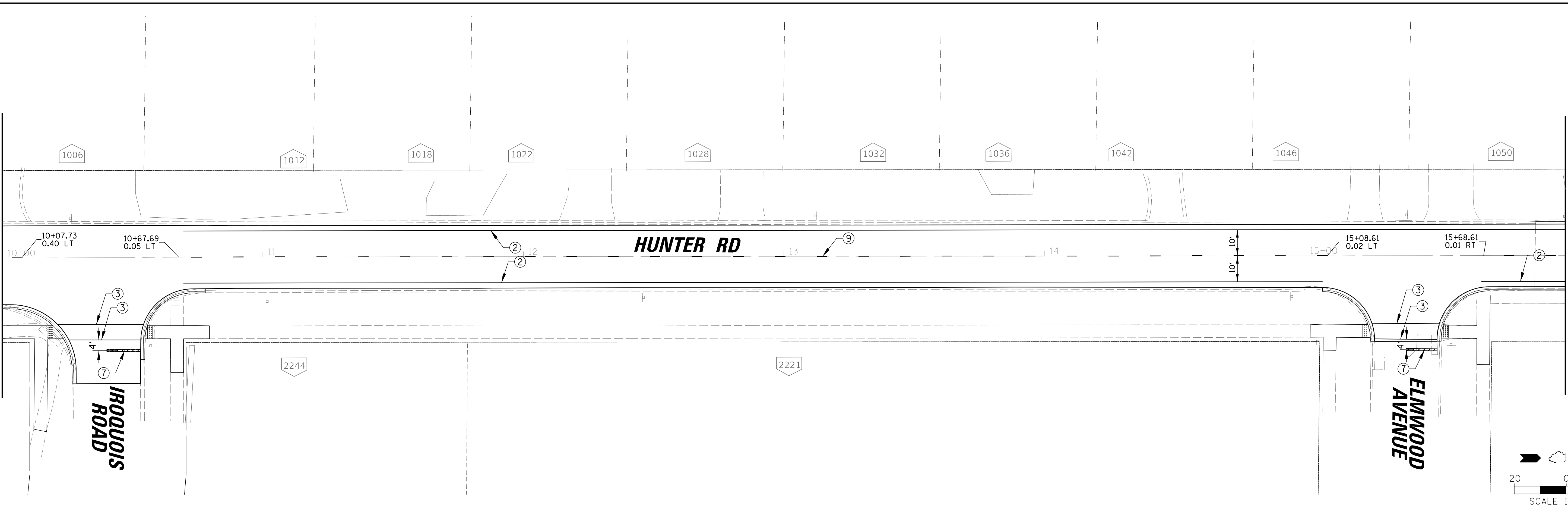
NOTE:  
ALL PAVEMENT MARKINGS SHALL BE RECESSED

SEE SHEET 113 FOR CONTINUATION  
MATCH LINE STA. 4+00



MATCH LINE STA. 10+00

MATCH LINE STA. 10+00



MATCH LINE STA. 16+00

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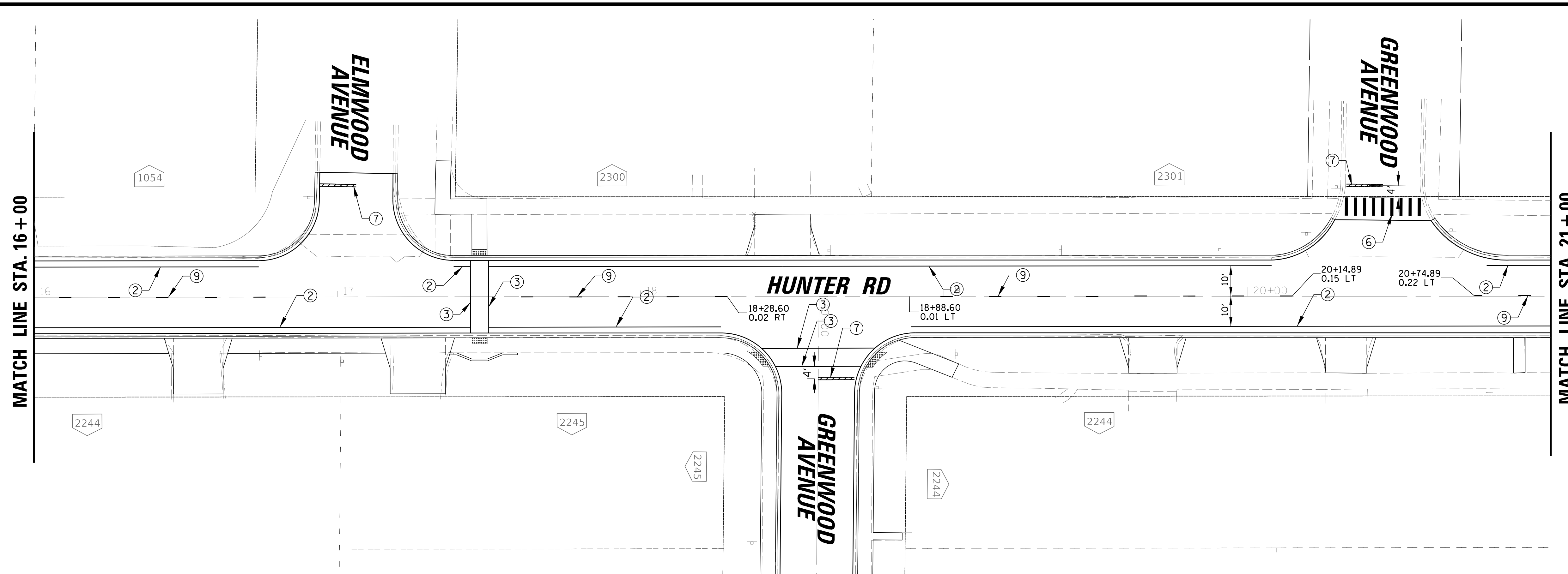
**BAXTER & WOODMAN**  
Consulting Engineers

CLIENT:  **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

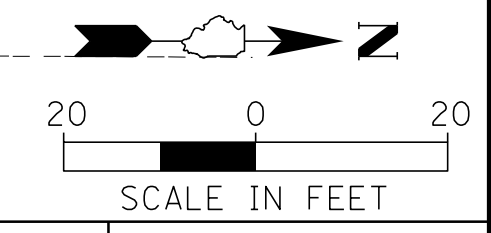
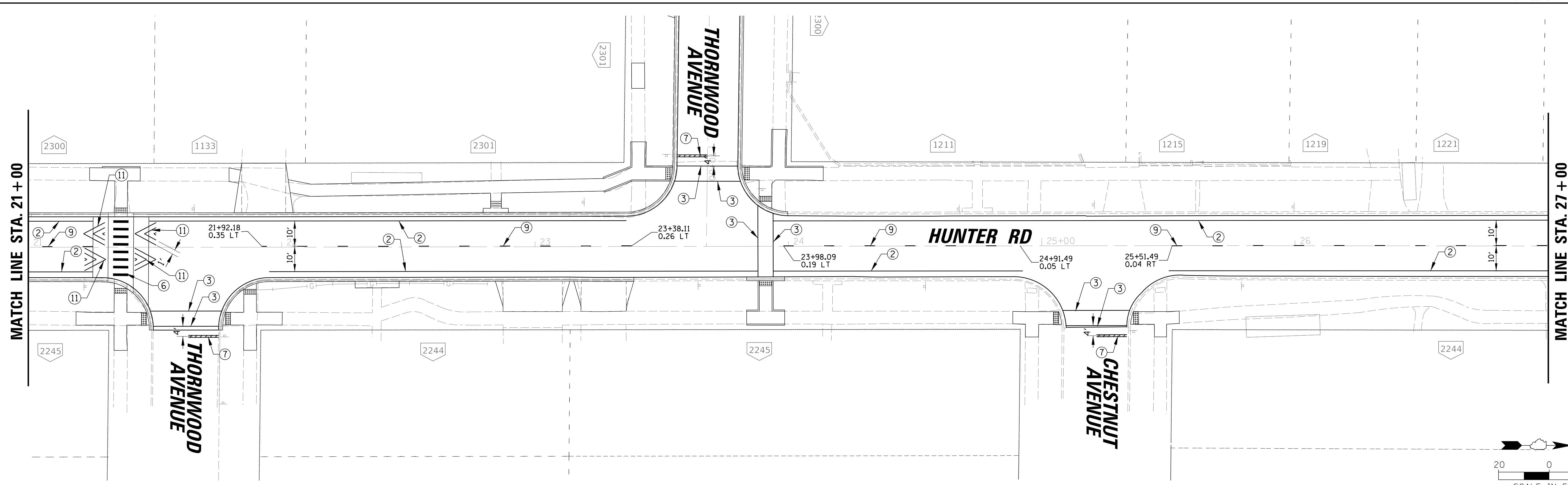
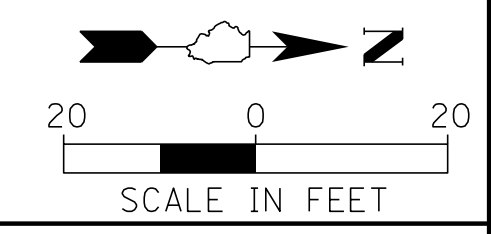
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TITLE: **WSNSP CONTRACT #3  
HUNTER ROAD  
PAVEMENT MARKING PLAN**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 109 OF 207  
DRAWING NO. **109**



- LEGEND**
- ① 4" YELLOW LANE LINE
  - ② 4" WHITE LANE LINE
  - ③ 6" WHITE LANE LINE
  - ④ 2-4" YELLOW (11' C-C)
  - ⑤ 8" WHITE LANE LINE
  - ⑥ 12" WHITE CROSS WALK
  - ⑦ 24" WHITE STOP BAR
  - ⑧ PAVEMENT MARKING LETTERS AND SYMBOLS
  - ⑨ 4" YELLOW SKIP DASH (10' DASH 30' SKIP)
  - ⑩ 12" YELLOWS DIAGONALS @ 45 DEGREES
  - ⑪ 12" WHITE LANE LINE
- NOTE:**  
ALL PAVEMENT MARKINGS SHALL BE RECESSED



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**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

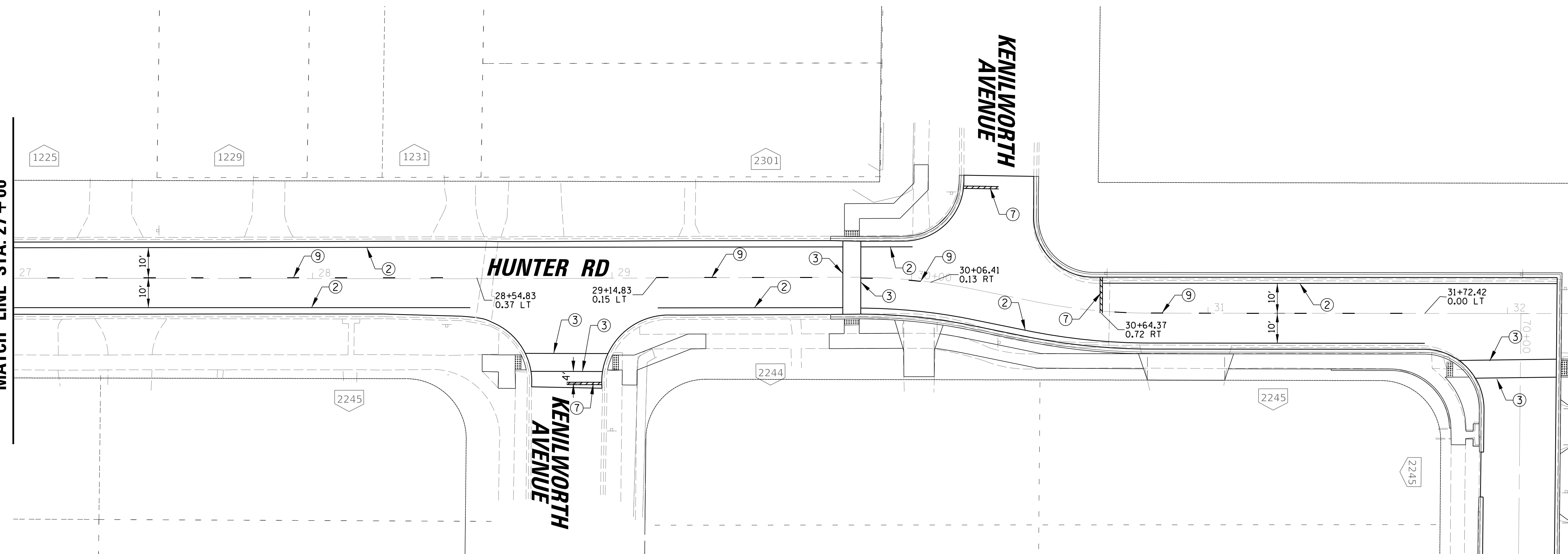
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CHKD.	LMF
SCALE:	20'
PLOT DATE:	10/8/2021
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MODEL:	Default

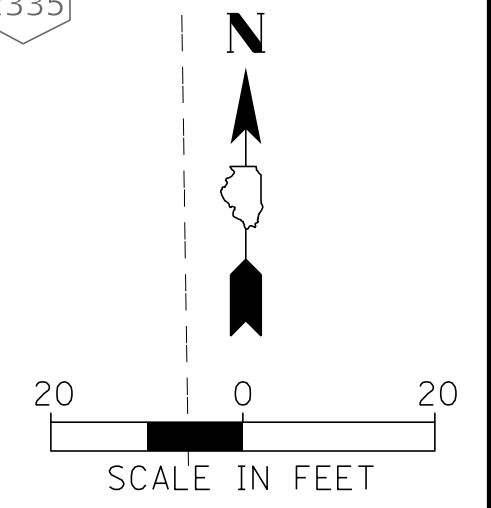
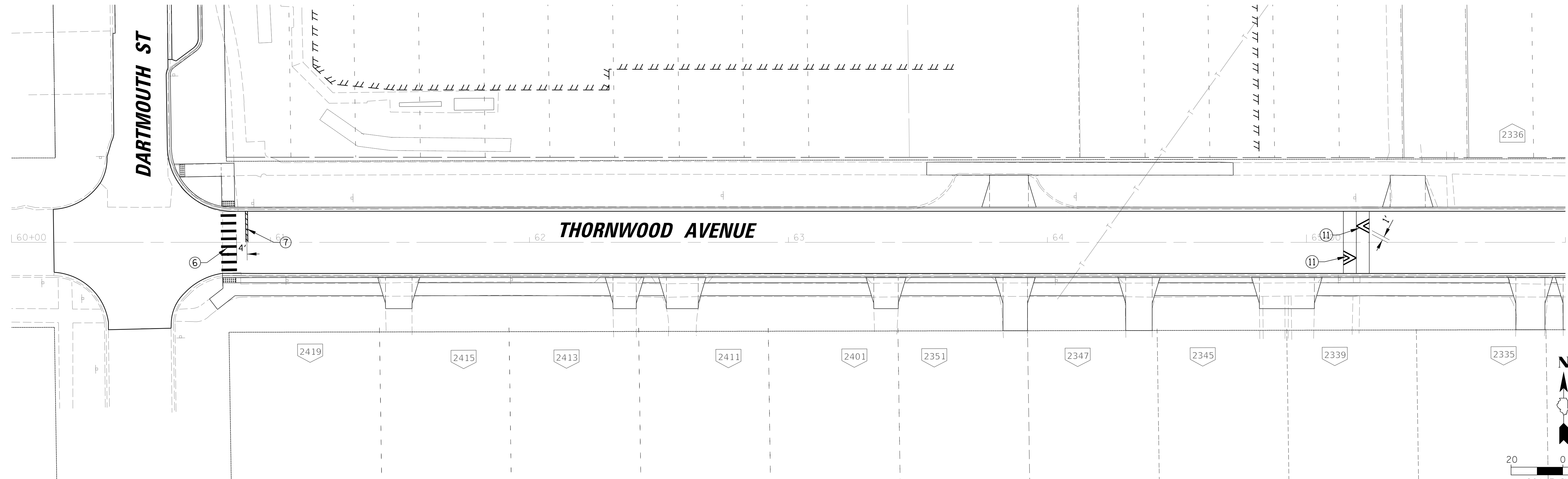
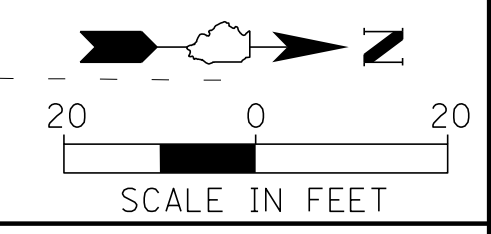
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 HUNTER ROAD  
 PAVEMENT MARKING PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 110 OF 207  
 DRAWING NO.  
**110**

MATCH LINE STA. 27+00



- LEGEND**
- ① 4" YELLOW LANE LINE
  - ② 4" WHITE LANE LINE
  - ③ 6" WHITE LANE LINE
  - ④ 2-4" YELLOW (11' C-C)
  - ⑤ 8" WHITE LANE LINE
  - ⑥ 12" WHITE CROSS WALK
  - ⑦ 24" WHITE STOP BAR
  - ⑧ PAVEMENT MARKING LETTERS AND SYMBOLS
  - ⑨ 4" YELLOW SKIP DASH (10' DASH 30' SKIP)
  - ⑩ 12" YELLOWS DIAGONALS @ 45 DEGREES
  - ⑪ 12" WHITE LANE LINE
- NOTE:**  
ALL PAVEMENT MARKINGS SHALL BE RECESSED



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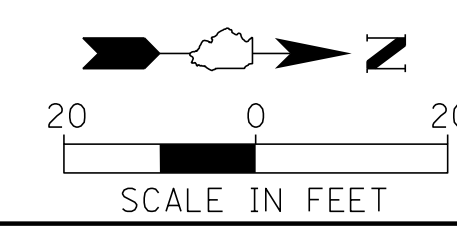
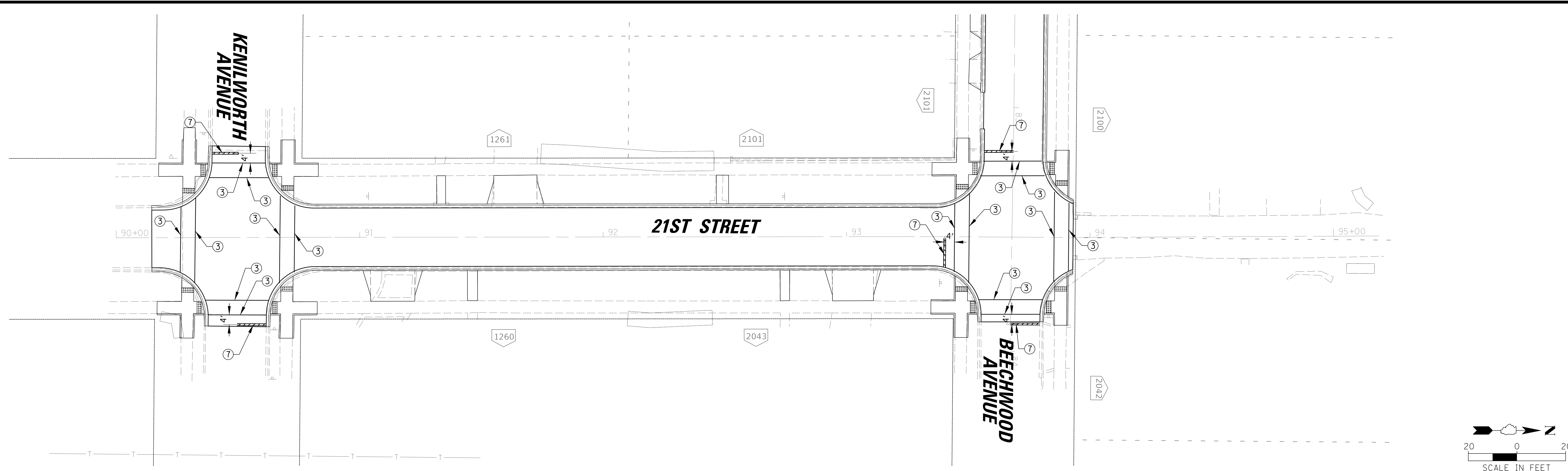
**BAXTER & WOODMAN**  
Consulting Engineers

CLIENT:  **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
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TITLE: **WSNSP CONTRACT #3  
HUNTER RD. & THORNWOOD AVE.  
PAVEMENT MARKING PLAN**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 111 OF 207  
DRAWING NO. **111**



- LEGEND**
- ① 4" YELLOW LANE LINE
  - ② 4" WHITE LANE LINE
  - ③ 6" WHITE LANE LINE
  - ④ 2-4" YELLOW (11' C-C)
  - ⑤ 8" WHITE LANE LINE
  - ⑥ 12" WHITE CROSS WALK
  - ⑦ 24" WHITE STOP BAR
  - ⑧ PAVEMENT MARKING LETTERS AND SYMBOLS
  - ⑨ 4" YELLOW SKIP DASH (10' DASH 30' SKIP)
  - ⑩ 12" YELLOWS DIAGONALS @ 45 DEGREES
  - ⑪ 12" WHITE LANE LINE

**NOTE:**  
ALL PAVEMENT MARKINGS SHALL BE RECESSED

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CLIENT:  **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK		
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TITLE: **WSNSP CONTRACT #3  
21ST STREET  
PAVEMENT MARKING PLAN**

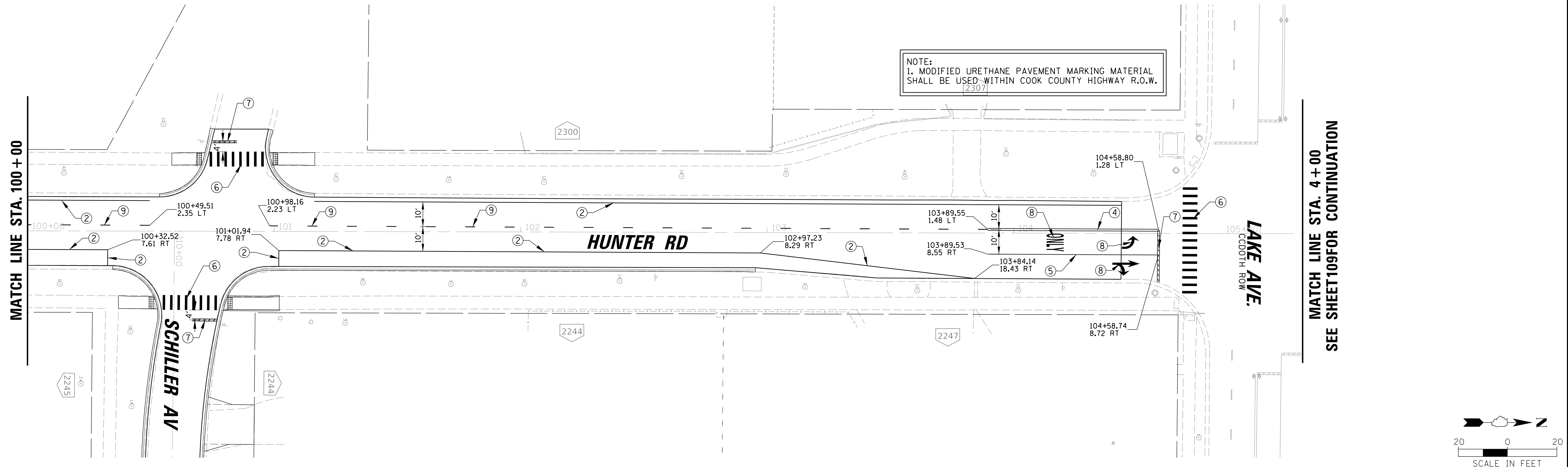
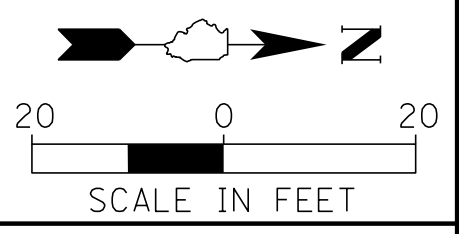
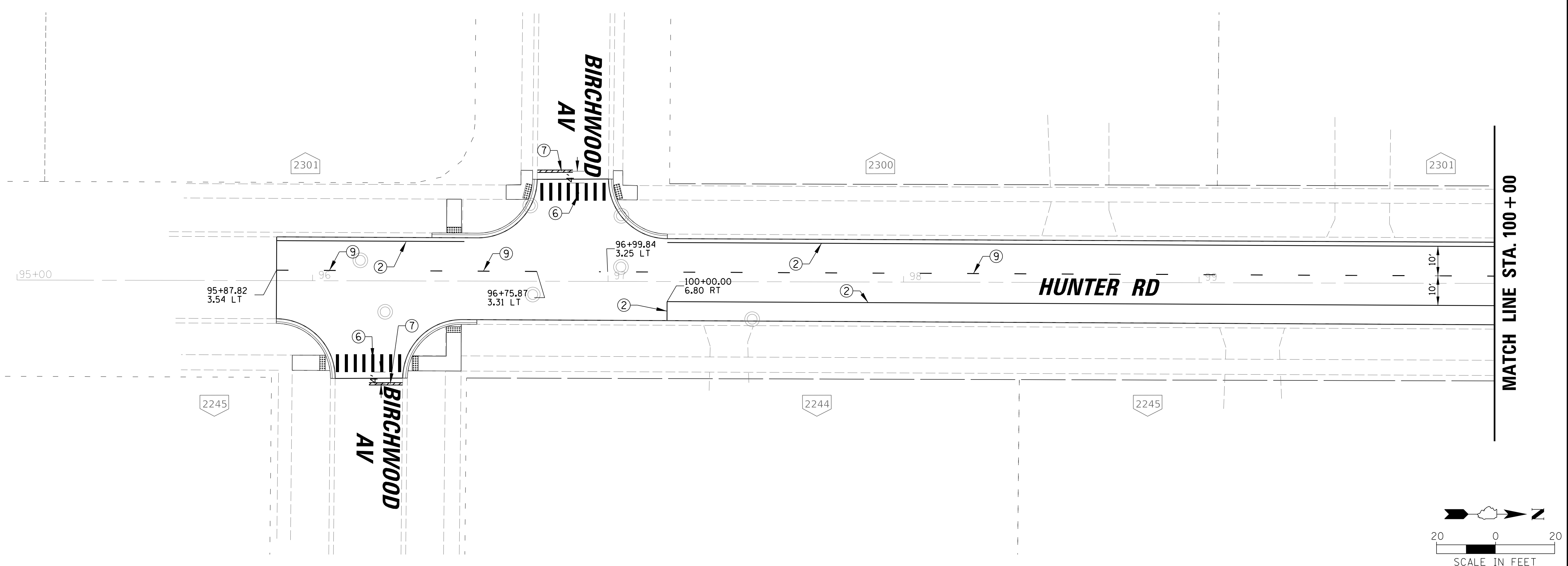
PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 112 OF 207  
DRAWING NO. **112**



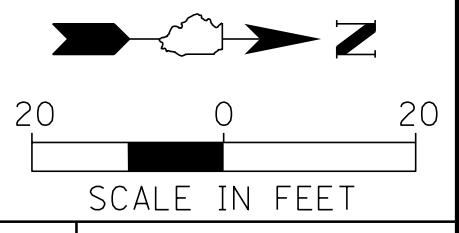
**LEGEND**

- ① 4" YELLOW LANE LINE
- ② 4" WHITE LANE LINE
- ③ 6" WHITE LANE LINE
- ④ 2-4" YELLOW (11' C-C)
- ⑤ 8" WHITE LANE LINE
- ⑥ 12" WHITE CROSS WALK
- ⑦ 24" WHITE STOP BAR
- ⑧ PAVEMENT MARKING LETTERS AND SYMBOLS
- ⑨ 4" YELLOW SKIP DASH (10' DASH 30' SKIP)
- ⑩ 12" YELLOWS DIAGONALS @ 45 DEGREES
- ⑪ 12" WHITE LANE LINE

NOTE:  
ALL PAVEMENT MARKINGS SHALL BE RECESSED



NOTE:  
1. MODIFIED URETHANE PAVEMENT MARKING MATERIAL SHALL BE USED WITHIN COOK COUNTY HIGHWAY R.O.W.



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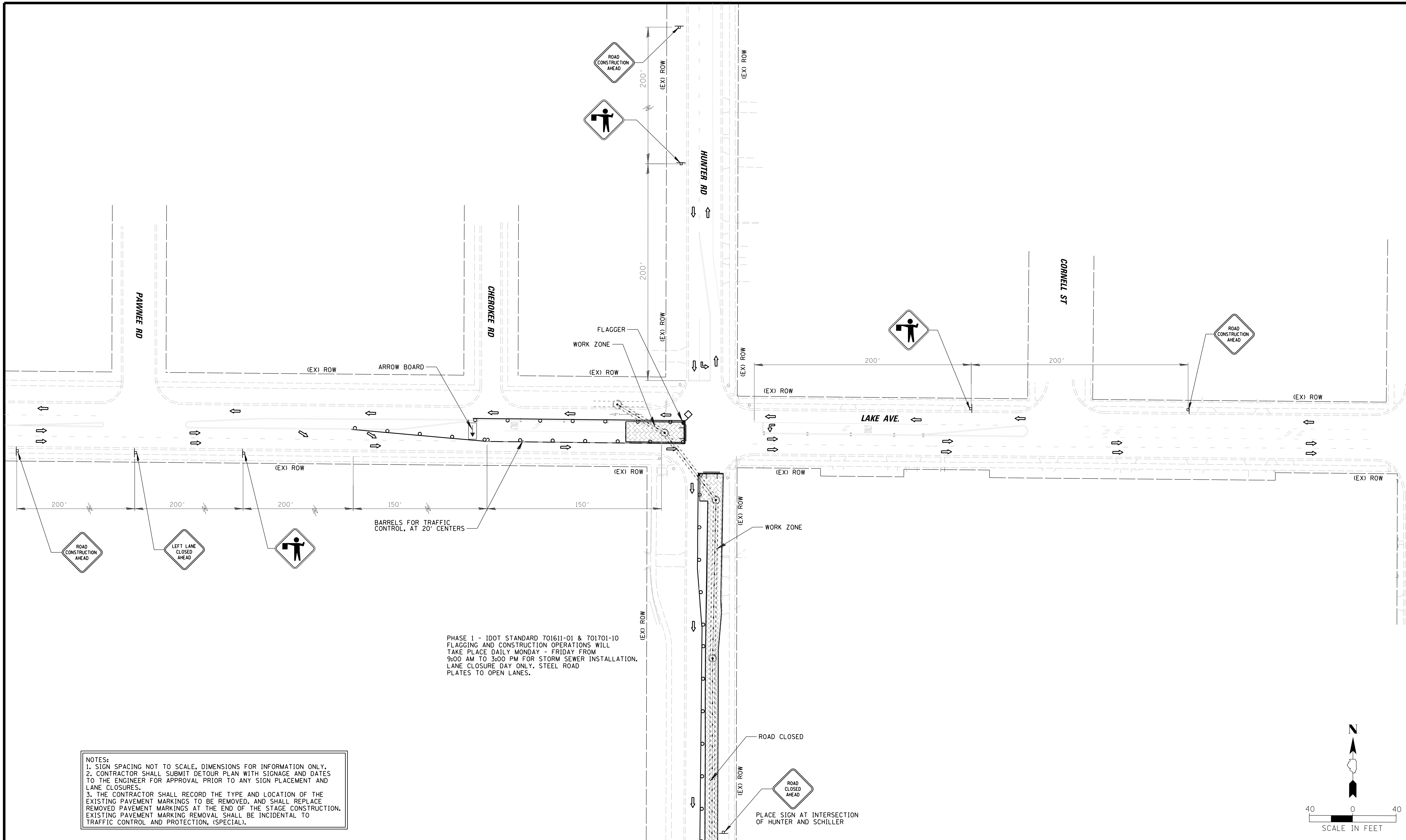
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**Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040



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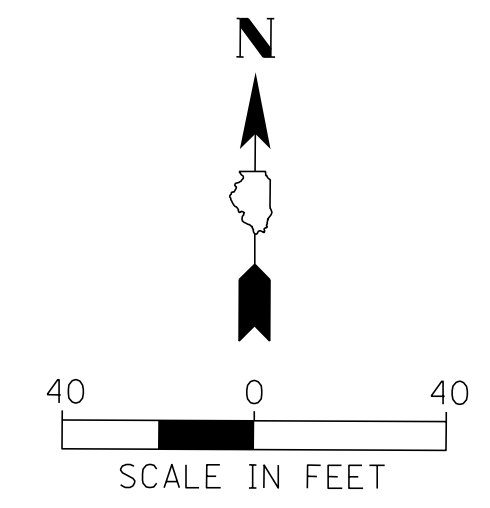
TITLE: **WSNSP CONTRACT #3  
HUNTER ROAD  
PAVEMENT MARKING PLAN**

PROJ. NO.	180245.0004
DATE:	10/8/2021
SHEET	113 OF 207
DRAWING NO.	113



PHASE 1 - IDOT STANDARD 701611-01 & 701701-10  
 FLAGGING AND CONSTRUCTION OPERATIONS WILL  
 TAKE PLACE DAILY MONDAY - FRIDAY FROM  
 9:00 AM TO 3:00 PM FOR STORM SEWER INSTALLATION.  
 LANE CLOSURE DAY ONLY. STEEL ROAD  
 PLATES TO OPEN LANES.

NOTES:  
 1. SIGN SPACING NOT TO SCALE, DIMENSIONS FOR INFORMATION ONLY.  
 2. CONTRACTOR SHALL SUBMIT DETOUR PLAN WITH SIGNAGE AND DATES  
 TO THE ENGINEER FOR APPROVAL PRIOR TO ANY SIGN PLACEMENT AND  
 LANE CLOSURES.  
 3. THE CONTRACTOR SHALL RECORD THE TYPE AND LOCATION OF THE  
 EXISTING PAVEMENT MARKINGS TO BE REMOVED, AND SHALL REPLACE  
 REMOVED PAVEMENT MARKINGS AT THE END OF THE STAGE CONSTRUCTION.  
 EXISTING PAVEMENT MARKING REMOVAL SHALL BE INCIDENTAL TO  
 TRAFFIC CONTROL AND PROTECTION, (SPECIAL).



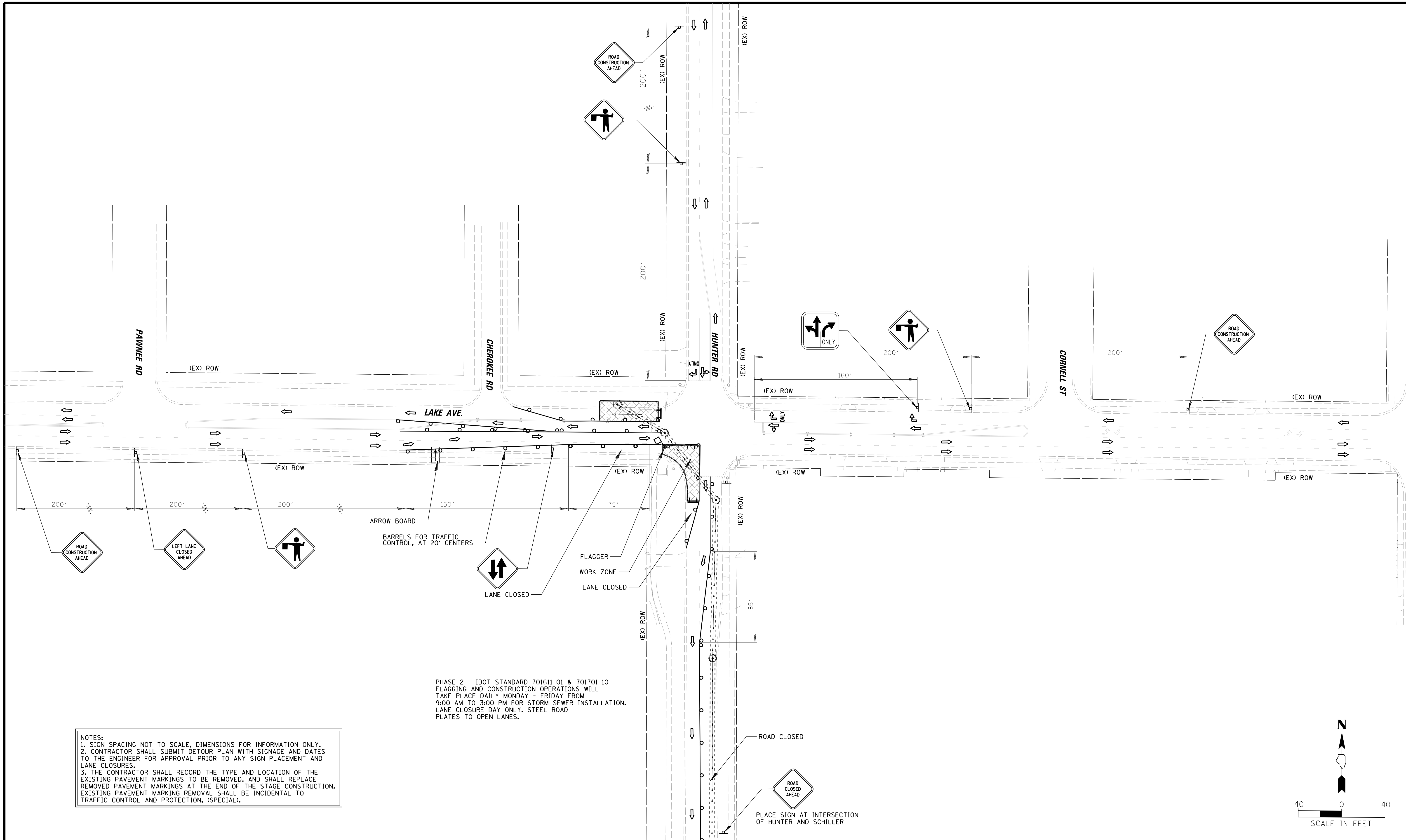
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CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

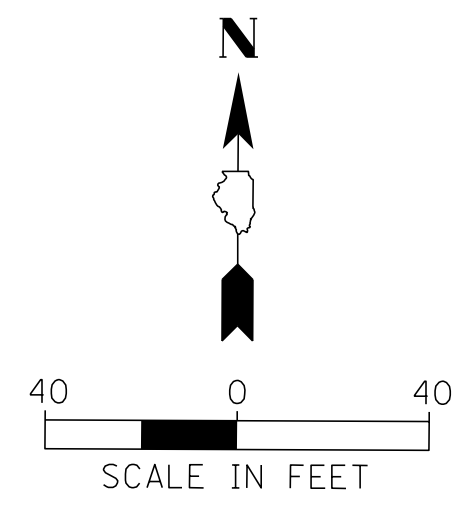
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DSGN.	JAL	TITLE:	PROJ. NO.	180245.0004
DWN.	MAK		DATE:	10/8/2021
CHKD.	LMF	WSNSP CONTRACT #3 MAINTENANCE OF TRAFFIC STAGING PLAN - STAGE 1	SHEET	114 OF 207
SCALE:	40'		DRAWING NO.	114
PLOT DATE:	10/8/2021			
CAD USER:	mkoonce			
MODEL:	Default			



PHASE 2 - IDOT STANDARD 701611-01 & 701701-10  
 FLAGGING AND CONSTRUCTION OPERATIONS WILL  
 TAKE PLACE DAILY MONDAY - FRIDAY FROM  
 9:00 AM TO 3:00 PM FOR STORM SEWER INSTALLATION.  
 LANE CLOSURE DAY ONLY. STEEL ROAD  
 PLATES TO OPEN LANES.

NOTES:  
 1. SIGN SPACING NOT TO SCALE, DIMENSIONS FOR INFORMATION ONLY.  
 2. CONTRACTOR SHALL SUBMIT DETOUR PLAN WITH SIGNAGE AND DATES  
 TO THE ENGINEER FOR APPROVAL PRIOR TO ANY SIGN PLACEMENT AND  
 LANE CLOSURES.  
 3. THE CONTRACTOR SHALL RECORD THE TYPE AND LOCATION OF THE  
 EXISTING PAVEMENT MARKINGS TO BE REMOVED, AND SHALL REPLACE  
 REMOVED PAVEMENT MARKINGS AT THE END OF THE STAGE CONSTRUCTION.  
 EXISTING PAVEMENT MARKING REMOVAL SHALL BE INCIDENTAL TO  
 TRAFFIC CONTROL AND PROTECTION, (SPECIAL).



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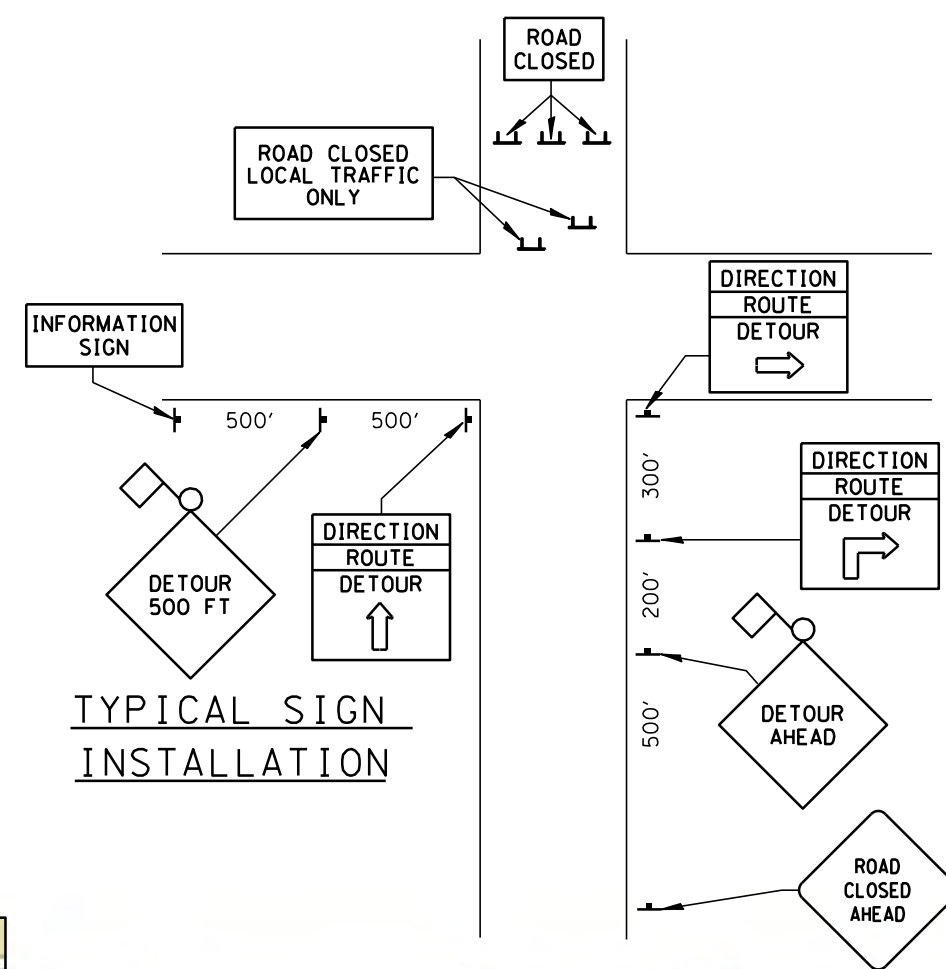
CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

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TITLE: **WSNSP CONTRACT #3  
 MAINTENANCE OF TRAFFIC  
 STAGING PLAN - STAGE 2**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 115 OF 207  
 DRAWING NO.  
**115**

NOTE:  
THE FOLLOWING INTERSECTIONS ARE SIGNALIZED:  
-LAKE AVENUE AND HUNTER ROAD  
-HUNTER ROAD AT WILMETTE AVENUE  
-WILMETTE AVENUE AT RIDGE ROAD  
-RIDGE ROAD AT LAKE AVENUE



**MAINTENANCE OF TRAFFIC GENERAL NOTES**

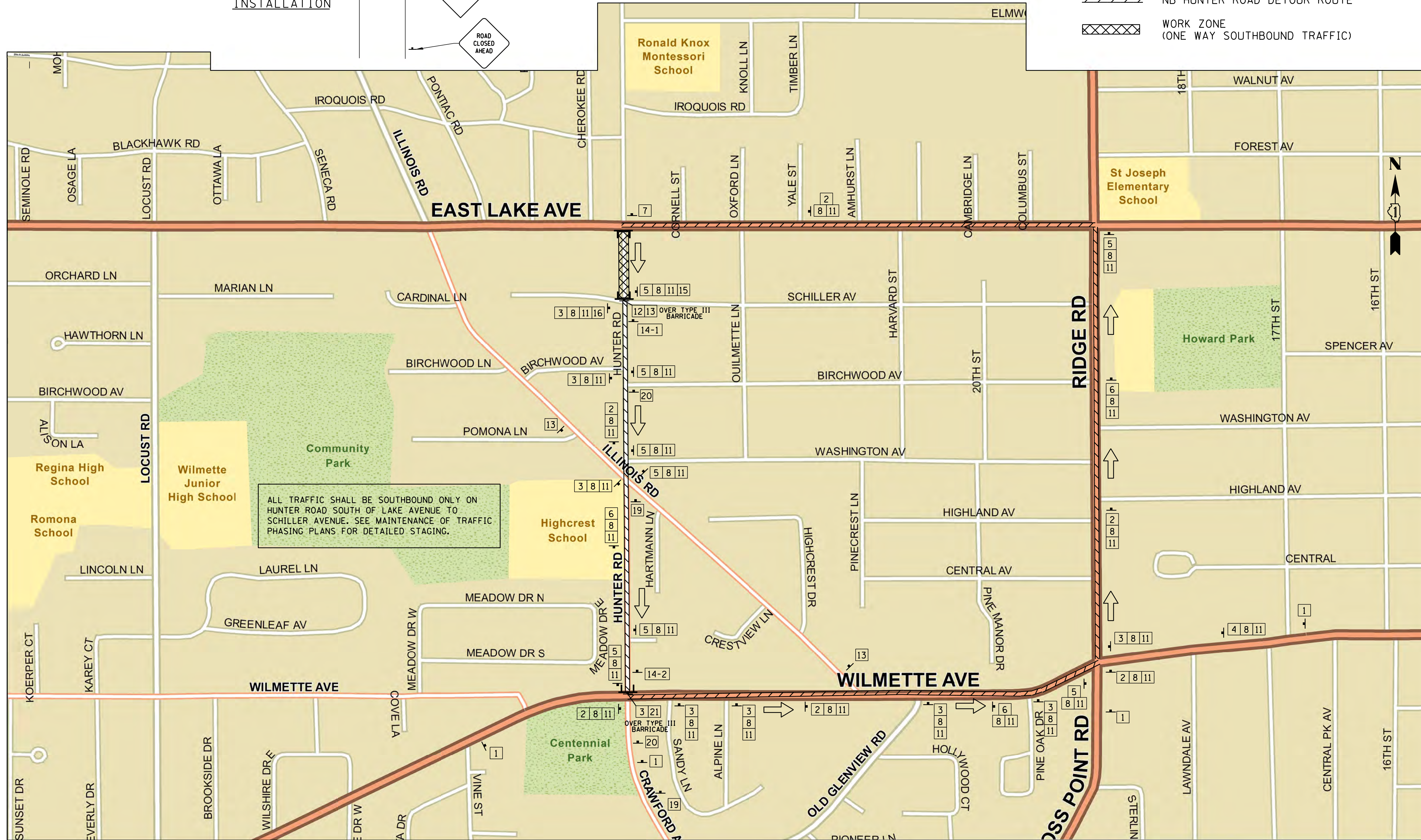
1. DRUM MINIMUM SPACING: 50' C-C TANGENT SECTION, 15' C-C AT CORNERS.
2. ALL SIGNAGE TO BE IN ACCORDANCE WITH MUTCD. SUGGESTED MAINTENANCE OF TRAFFIC SHOWN IS MINIMUM REQUIRED; CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL MEASURES AS DIRECTED BY RESIDENT ENGINEER. THIS WORK WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
3. DETOUR OF NORTHBOUND TRAFFIC WILL REMAIN THROUGH THE COMPLETION OF HUNTER ROAD. NORTHBOUND LOCAL TRAFFIC MUST BE ROUTED AROUND THE CONSTRUCTION ZONE PER THE DETOUR ROUTE AND ROAD CLOSED SIGNS. THE CONTRACTOR IS REQUIRED TO NOTIFY AND DIRECT RESIDENTS AND NECESSARY TRAFFIC (GARBAGE, EMERGENCY, SCHOOL AND PACE BUSES) THROUGH OR AROUND THE WORK ZONE ON A DAILY BASIS.
4. THIS TRAFFIC PLAN SHOWS ONLY THE MINIMUM SIGNAGE REQUIRED FOR THE PERMANENT DETOUR. LOCAL DETOURS AND SIGNS REQUIRED FOR SAFETY ARE NOT SHOWN HERE.
5. DURING CONSTRUCTION OF HUNTER ROAD, THE SOUTHBOUND TRAFFIC WILL REMAIN OPEN AT ALL TIMES WHILE THE NORTHBOUND TRAFFIC WILL BE CLOSED AND DETOURED AS SHOWN ON THIS DETOUR ROUTE PLAN.

**LEGEND**

- 48" x 48" CONSTRUCTION WARNING SIGN WITH AMBER FLASHING LIGHT AND ORANGE WARNING FLAG. NUMBER DENOTES TYPE.
- M4-9 SERIES DETOUR SIGN WITH ROAD NAME AND CARDINAL DIRECTION PLATE. NUMBER DENOTES TYPE.
- OTHER DETOUR SIGNS. NUMBER DENOTES TYPE.
- TYPE III BARRICADE WITH AMBER FLASHING LIGHTS.
- NB HUNTER ROAD DETOUR ROUTE
- WORK ZONE (ONE WAY SOUTHBOUND TRAFFIC)

**SCHEDULE OF SIGNS**

SIGN NO.	SIGN TYPE
1	DETOUR AHEAD W20-2(O)-4848
2	DETOUR M4-9 (O) 3024
3	DETOUR M4-9 R (O) 3024
3A	DETOUR M4-8R-3015 (USE WITHIN COOK COUNTY R.O.W.)
4	DETOUR M4-9 R (O) 3024
5	DETOUR M4-9 L (O) 3024
6	DETOUR M4-9 L (O) 3024
7	END DETOUR M4-8a (O) 2418
8	Hunter Road SPECIAL NO. 1 4830
9	EAST M3-2 (O) 2412
10	WEST M3-4 (O) 2412
11	NORTH M3-3 (O) 2412
12	ROAD CLOSED R-11-2-4830
13	Hunter Road CLOSED NORTHBOUND SPECIAL NO. 2 6030
14-1	CHANGEABLE MESSAGE SIGN, SPECIAL (ONLY 2 WEEKS PRIOR TO CONSTRUCTION)
14-2	CHANGEABLE MESSAGE SIGN, SPECIAL (DURATION OF CONSTRUCTION)
15	R3-1 3636
16	R3-2 3636
17	ONE WAY R6-1L 5418
18	ONE WAY R6-1R 5418
19	ROAD CLOSED AHEAD W20-3(O)-4848
20	ROAD CLOSED 500 FT W20-3(O)-4848
21	ROAD CLOSED TO THRU TRAFFIC R11-4 6030



ALL TRAFFIC SHALL BE SOUTHBOUND ONLY ON HUNTER ROAD SOUTH OF LAKE AVENUE TO SCHILLER AVENUE. SEE MAINTENANCE OF TRAFFIC PHASING PLANS FOR DETAILED STAGING.

NOTE:  
1. ADVANCED WARNING CHANGEABLE MESSAGE BOARDS SHALL BE POSTED AT BOTH ENDS OF THE ROADWAY 2 WEEKS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WITHIN THE VILLAGE'S RIGHT-OF-WAY NOTIFYING THE MOTORING PUBLIC OF THE UPCOMING WORK (ROAD CONSTRUCTION/LANE REDUCTION BEGINNING ALTERNATE ROUTES, ROAD CLOSED TO ALL NORTHBOUND TRAFFIC, ETC.). THE LANGUAGE MUST BE PROVIDED TO THE VILLAGE FOR REVIEW/APPROVAL PRIOR TO THEIR ACTIVATION. THE MESSAGE BOARD LOCATION SHALL BE REVIEWED AND APPROVED BY THE VILLAGE PRIOR TO PLACEMENT. THIS SHALL BE PAID FOR AS CHANGEABLE MESSAGE SIGN, SPECIAL.  
2. TWO WEEKS ADVANCE NOTIFICATION TO THE COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS IS REQUIRED PRIOR TO THE OPERATION OF THE DETOUR ROUTE.

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(847) 823-0500

**BAXTER & WOODMAN**  
Consulting Engineers

CLIENT: **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

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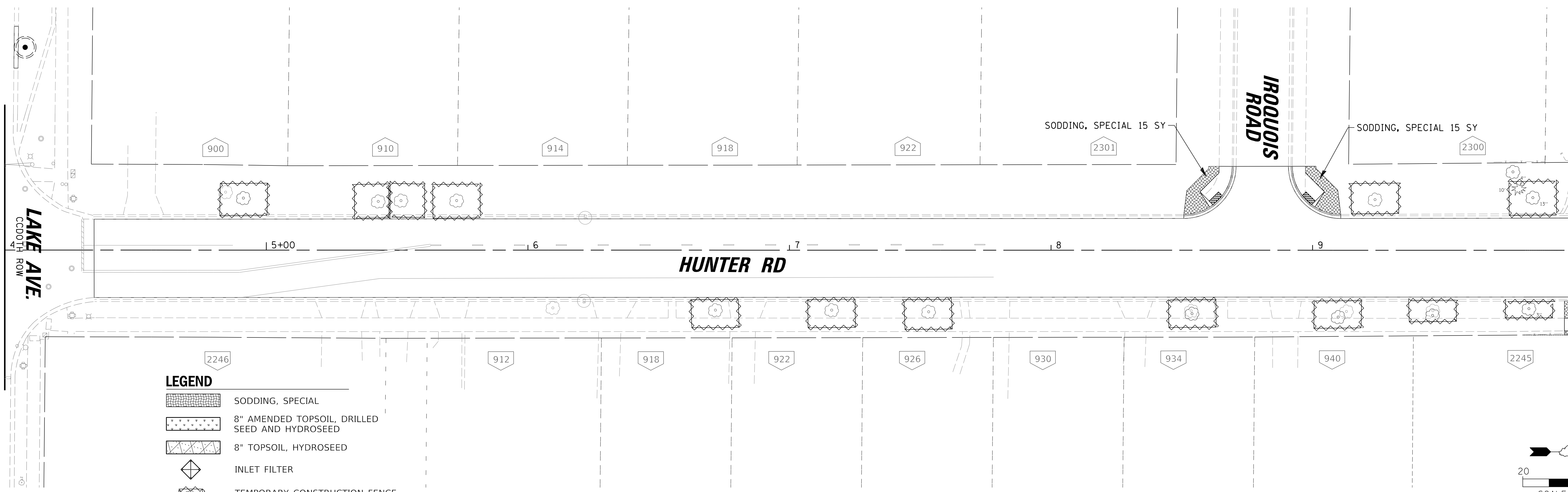
TITLE: **WSNSP CONTRACT #3  
LOCAL ROAD DETOUR PLAN  
NB HUNTER ROAD DETOUR MAP**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 116 OF 207  
DRAWING NO. **116**

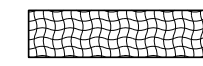

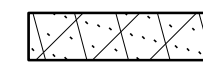
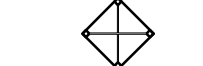


SEE SHEET 127 FOR CONTINUATION  
MATCH LINE STA. 4+00

LAKE AVE.  
C/OOTH ROW

MATCH LINE STA. 10+00



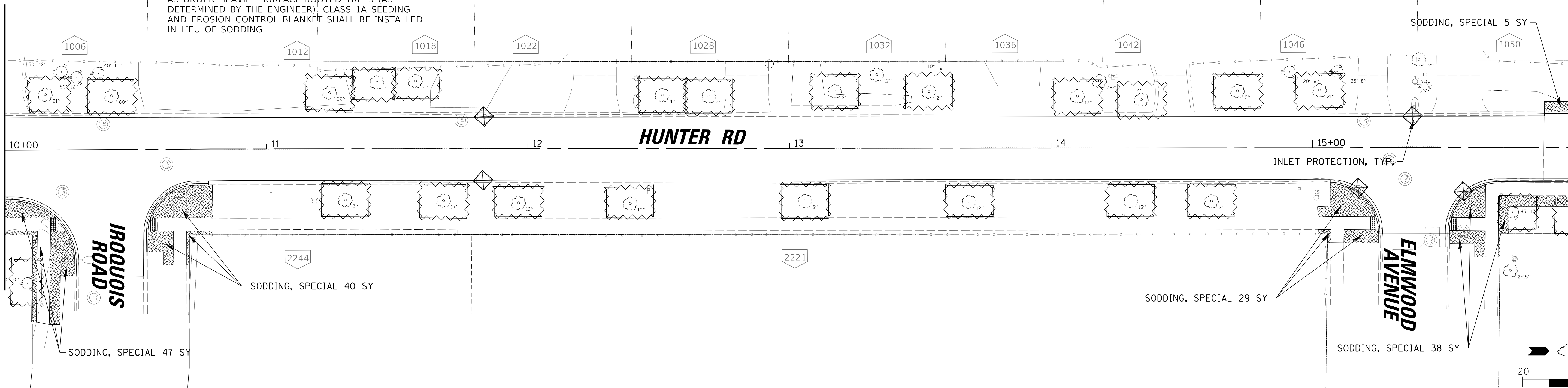
**LEGEND**

-  SODDING, SPECIAL
-  8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
-  8" TOPSOIL, HYDROSEED
-  INLET FILTER
-  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
-  TREE PRUNING

**NOTES:**

1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.

MATCH LINE STA. 10+00



MATCH LINE STA. 16+00

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Rosemont, Illinois 60018  
(847) 823-0500



CLIENT:



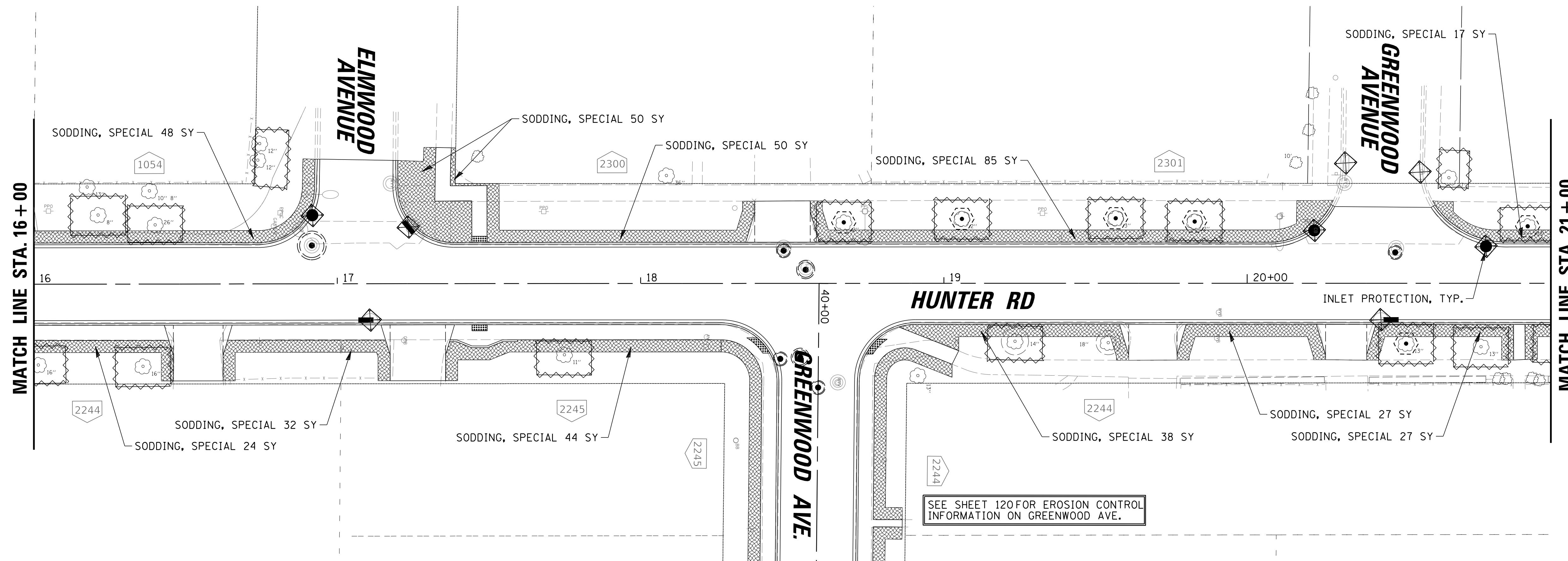
**Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

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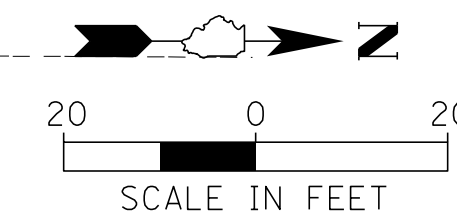
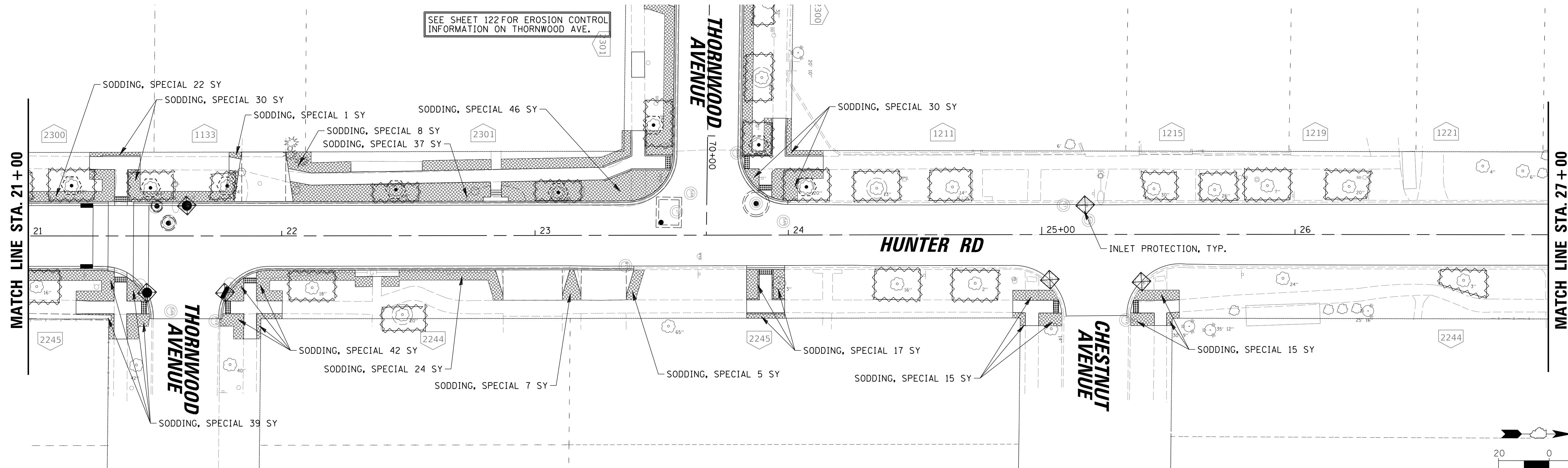
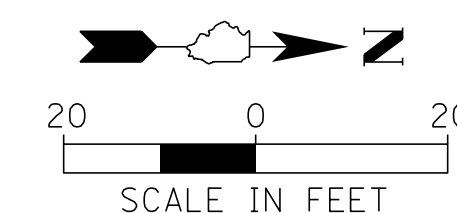
**WSNSP CONTRACT #3  
HUNTER ROAD  
EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 117 OF 207  
DRAWING NO.  
**117**



- LEGEND**
- SODDING, SPECIAL
  - 8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
  - 8" TOPSOIL, HYDROSEED
  - INLET FILTER
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - TREE PRUNING

- NOTES:**
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.



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 Rosemont, Illinois 60018  
 (847) 823-0500

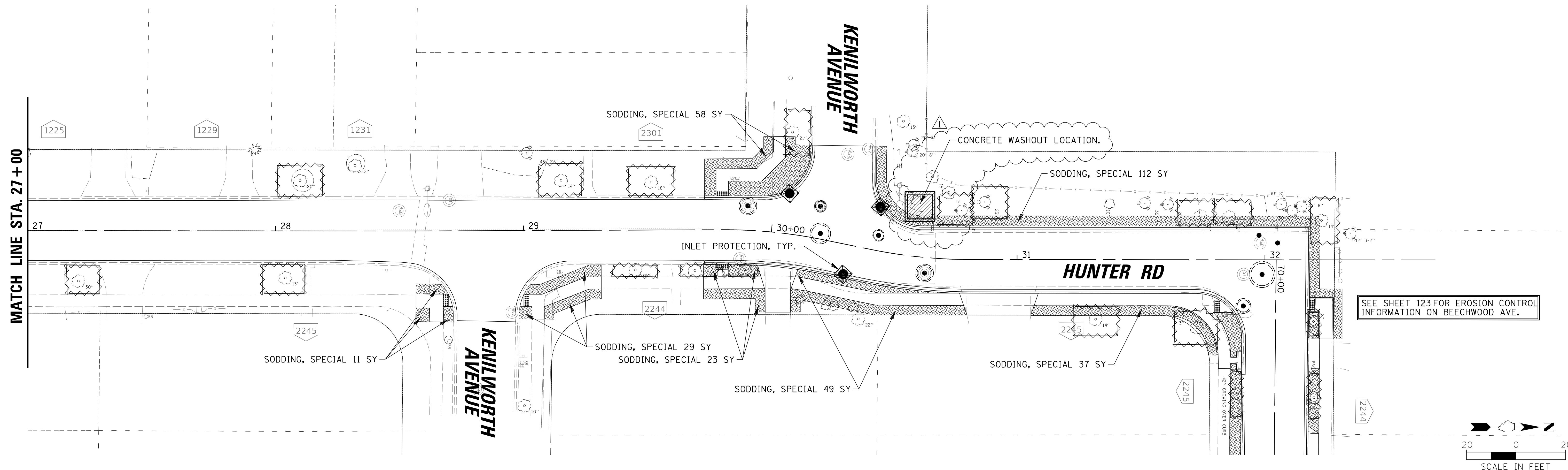


CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

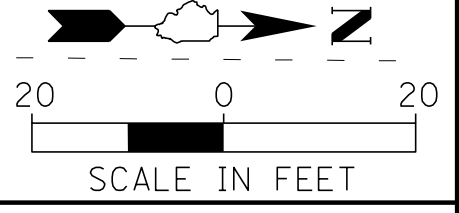
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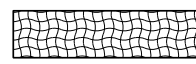





TITLE: **WSNSP CONTRACT #3  
 HUNTER ROAD  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 118 OF 207  
 DRAWING NO. **118**



SEE SHEET 123 FOR EROSION CONTROL INFORMATION ON BEECHWOOD AVE.



- LEGEND**
-  SODDING, SPECIAL
  -  8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
  -  8" TOPSOIL, HYDROSEED
  -  INLET FILTER
  -  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  -  TREE PRUNING

- NOTES:**
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.

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 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

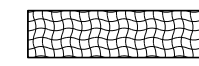

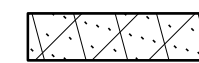



CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
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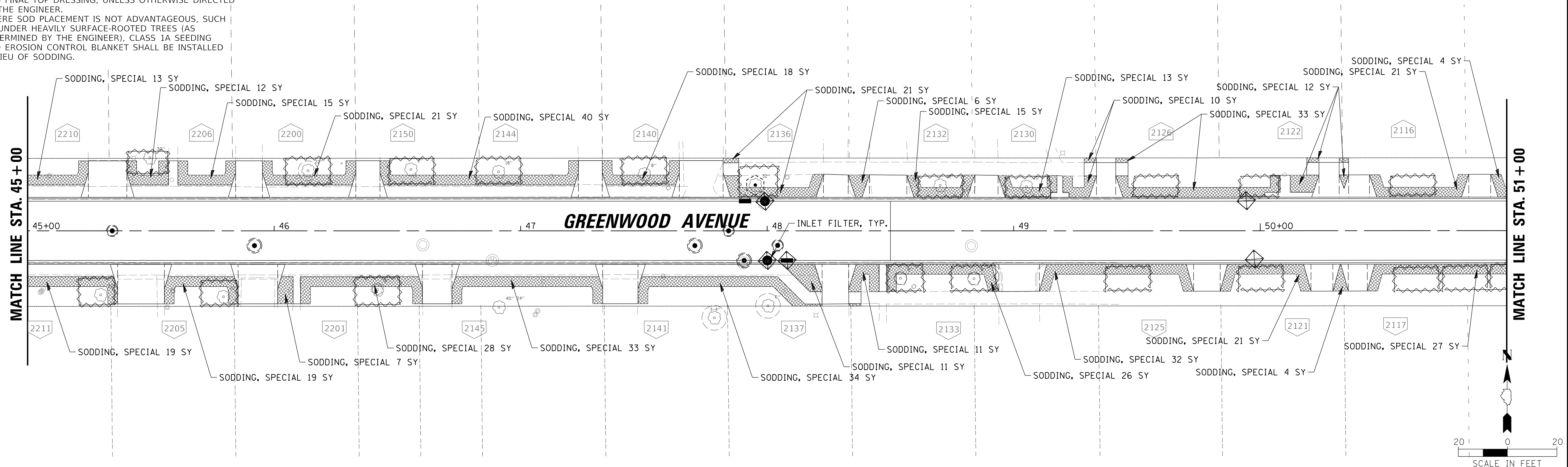
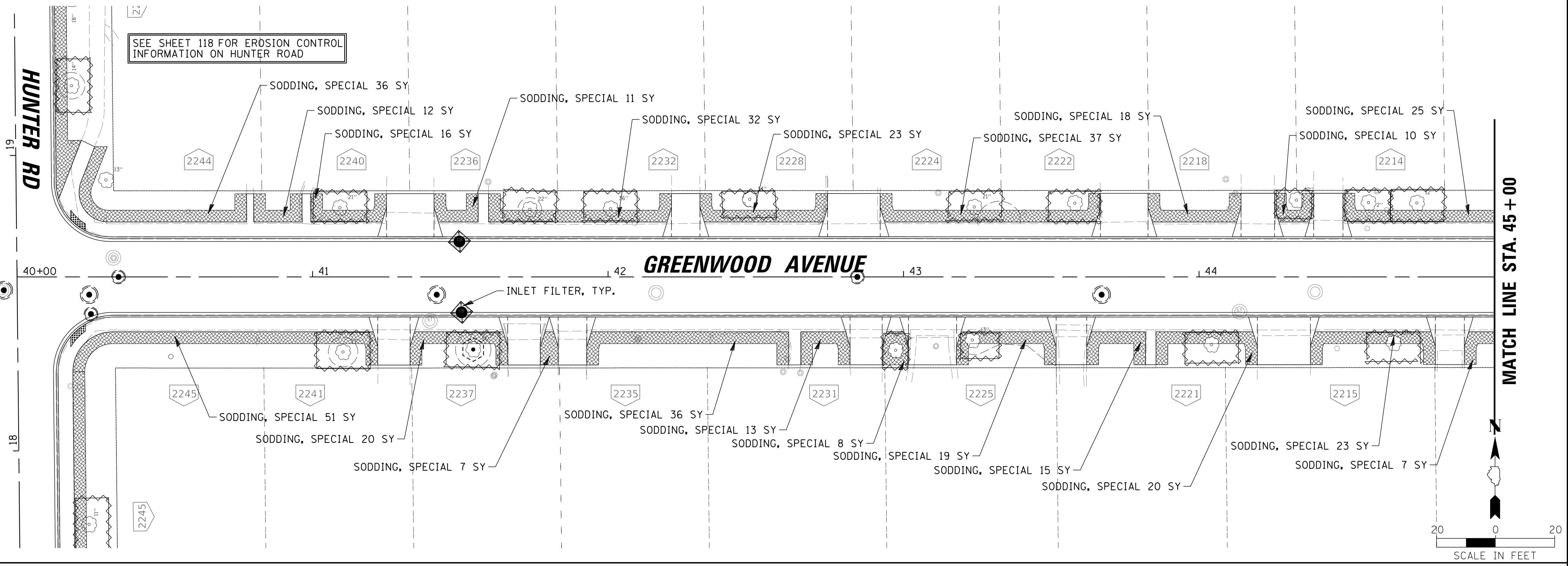
TITLE: **WSNSP CONTRACT #3  
 HUNTER ROAD  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 119 OF 207  
 DRAWING NO. **119**

SEE SHEET 118 FOR EROSION CONTROL INFORMATION ON HUNTER ROAD

- LEGEND**
-  SODDING, SPECIAL
  -  8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
  -  8" TOPSOIL, HYDROSEED
  -  INLET FILTER
  -  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  -  TREE PRUNING

- NOTES:**
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.



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 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

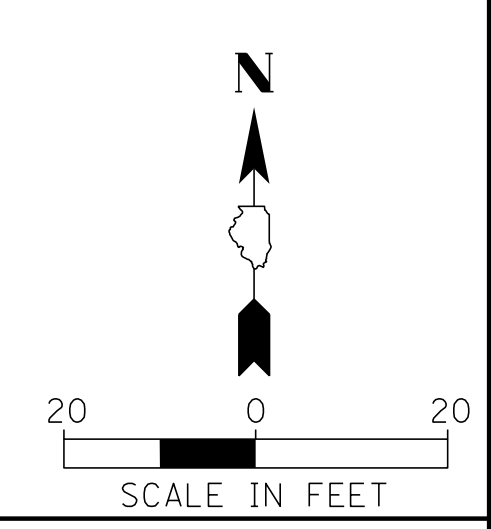
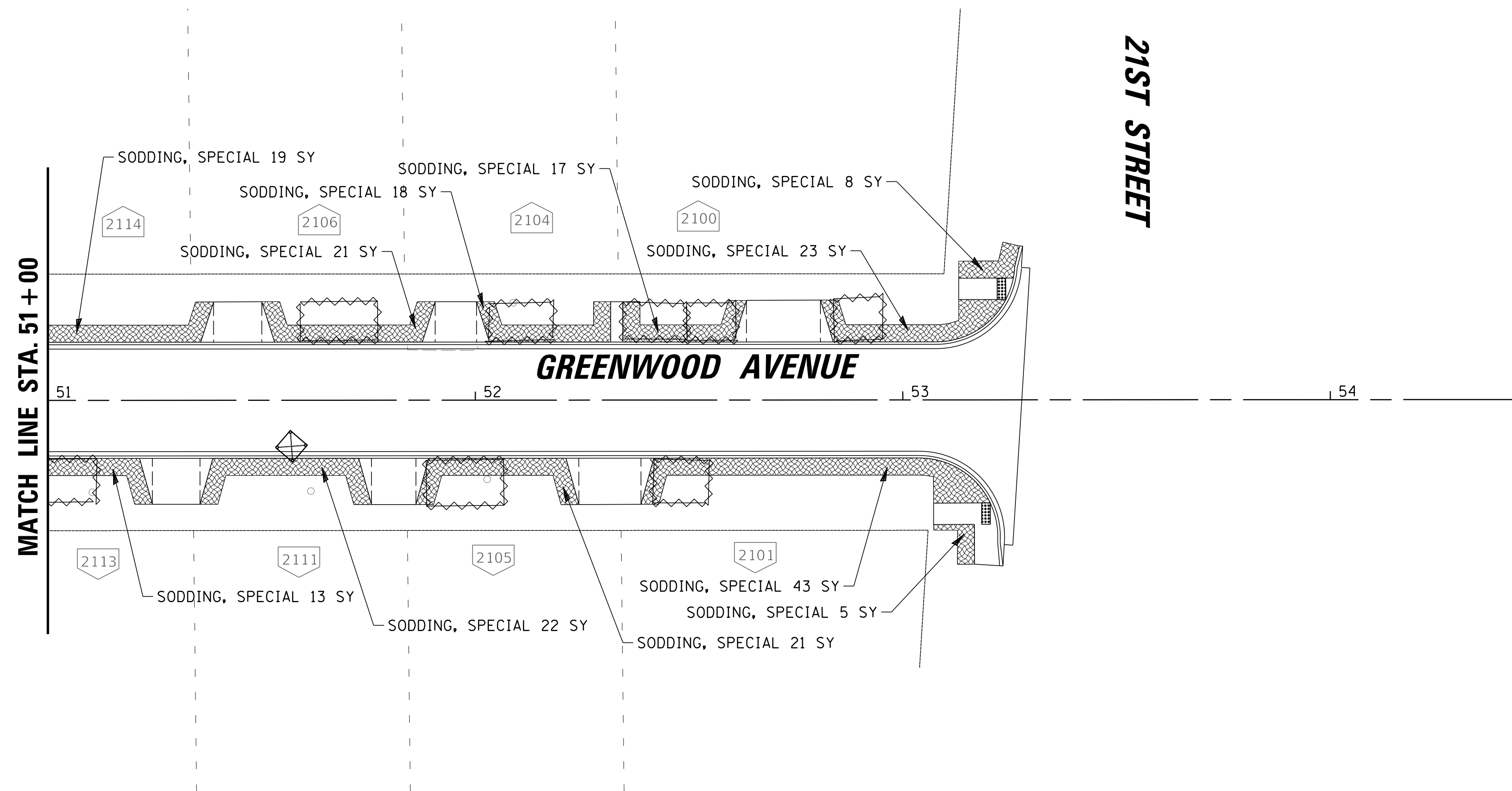
CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	CHKD.	MODEL:
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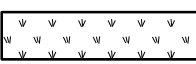
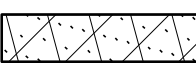



TITLE: **WSNSP CONTRACT #3  
 GREENWOOD AVENUE  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 120 OF 207  
 DRAWING NO. **120**





**LEGEND**

-  SODDING, SPECIAL
-  8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
-  8" TOPSOIL, HYDROSEED
-  INLET FILTER
-  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
-  TREE PRUNING

- NOTES:
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.

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 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

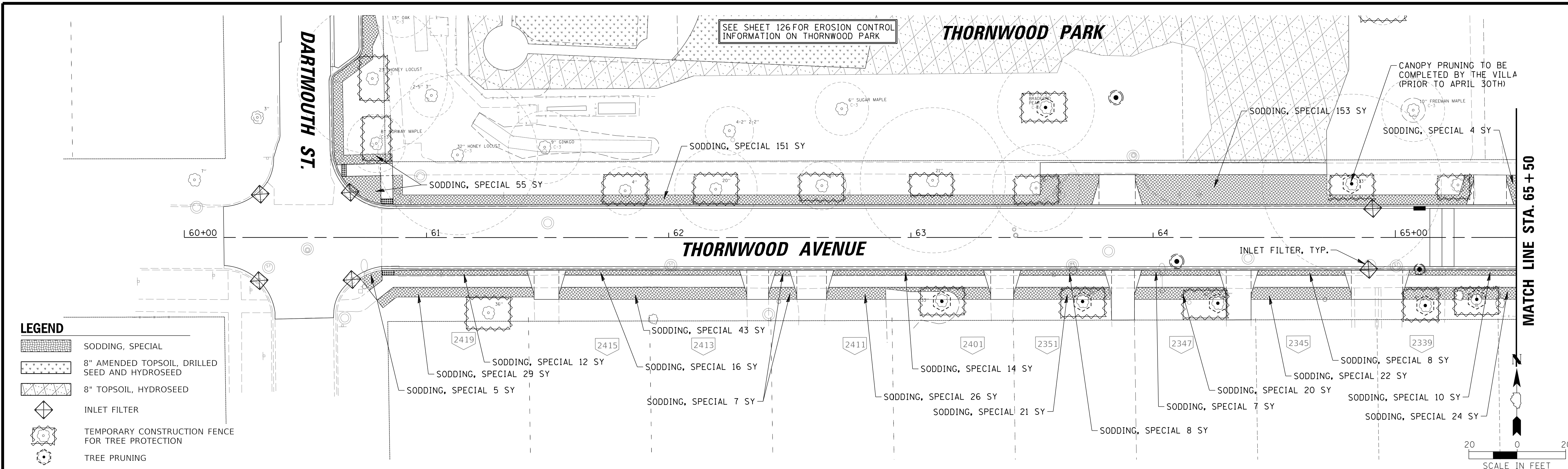
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.	MODEL:
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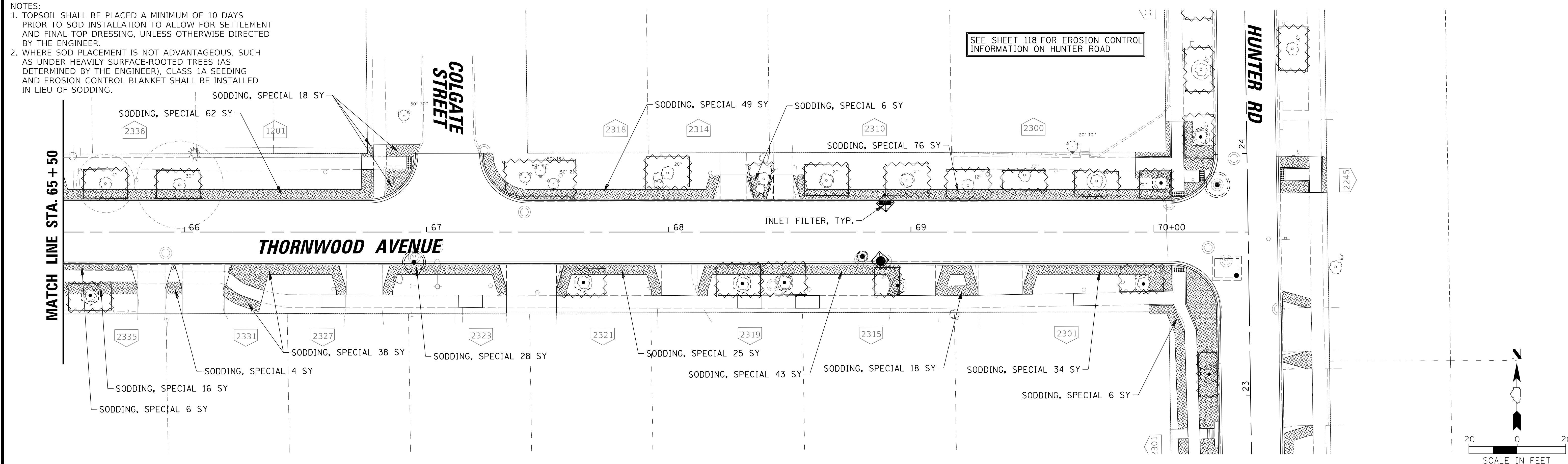
TITLE: **WSNSP CONTRACT #3  
 GREENWOOD AVENUE  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 121 OF 207  
 DRAWING NO. **121**



- LEGEND**
- SODDING, SPECIAL
  - 8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
  - 8" TOPSOIL, HYDROSEED
  - INLET FILTER
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - TREE PRUNING

- NOTES:**
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.



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 Rosemont, Illinois 60018  
 (847) 823-0500



CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040


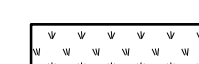




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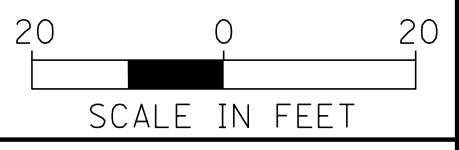
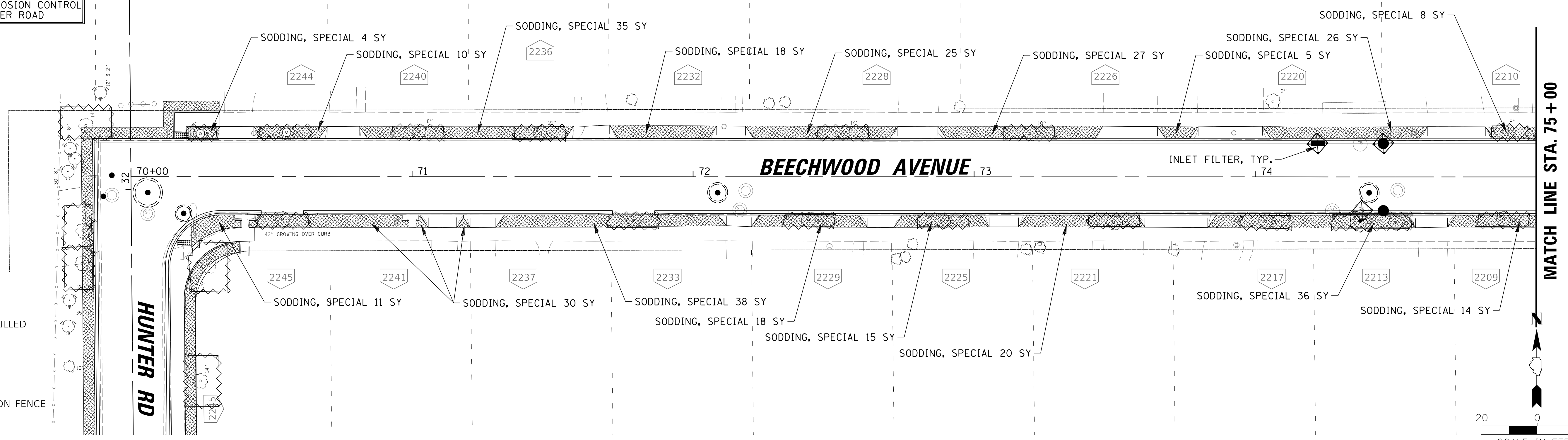
TITLE: **WSNSP CONTRACT #3  
 THORNWOOD AVENUE  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 122 OF 207  
 DRAWING NO. **122**

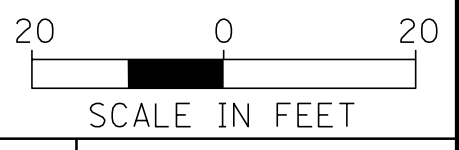
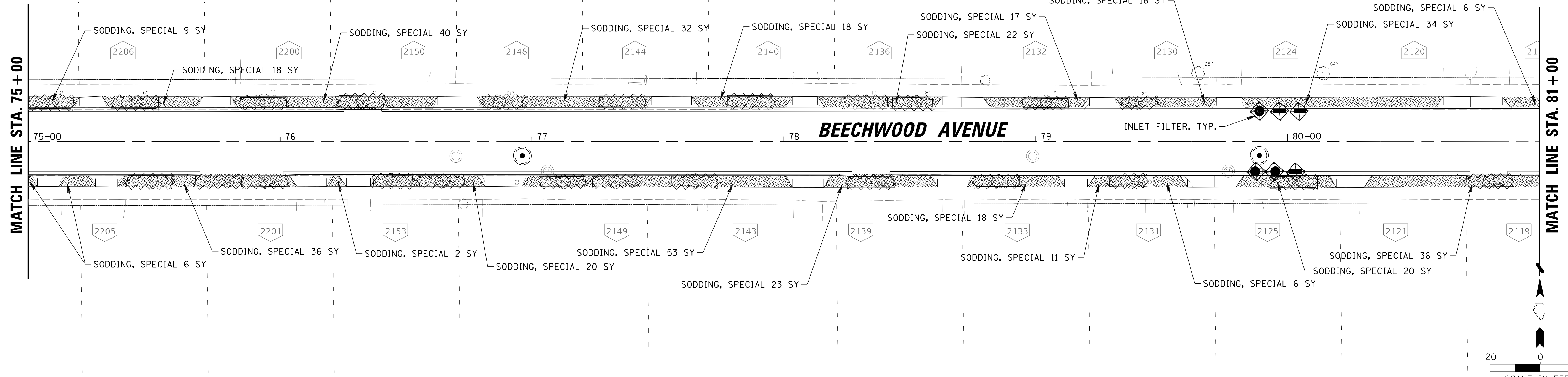
SEE SHEET 119 FOR EROSION CONTROL INFORMATION ON HUNTER ROAD

**LEGEND**

-  SODDING, SPECIAL
-  8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
-  8" TOPSOIL, HYDROSEED
-  INLET FILTER
-  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
-  TREE PRUNING



- NOTES:**
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.



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 Rosemont, Illinois 60018  
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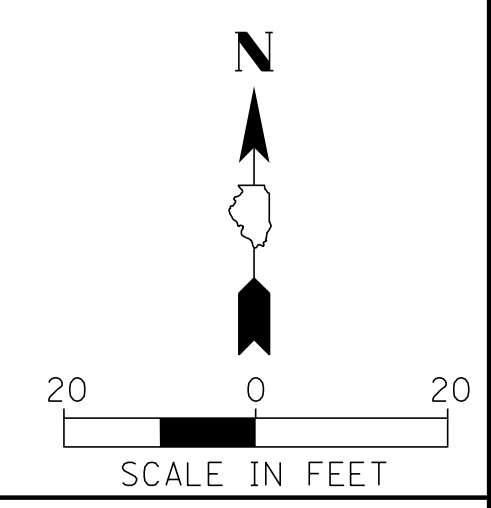
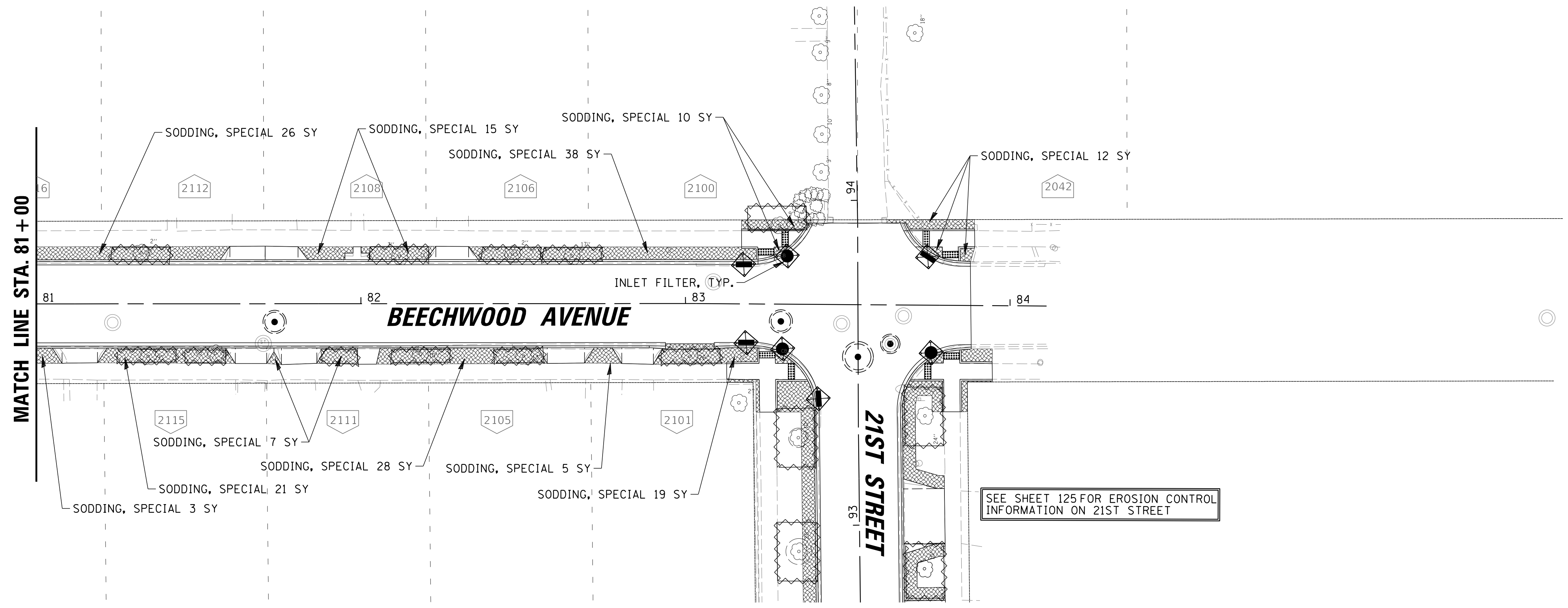
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040







NO.	DATE	REVISION	MAK	CHKD.
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TITLE: **WSNSP CONTRACT #3  
 BEECHWOOD AVENUE  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 123 OF 207  
 DRAWING NO. **123**



**LEGEND**

-  SODDING, SPECIAL
-  8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
-  8" TOPSOIL, HYDROSEED
-  INLET FILTER
-  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
-  TREE PRUNING

- NOTES:
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.

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 Rosemont, Illinois 60018  
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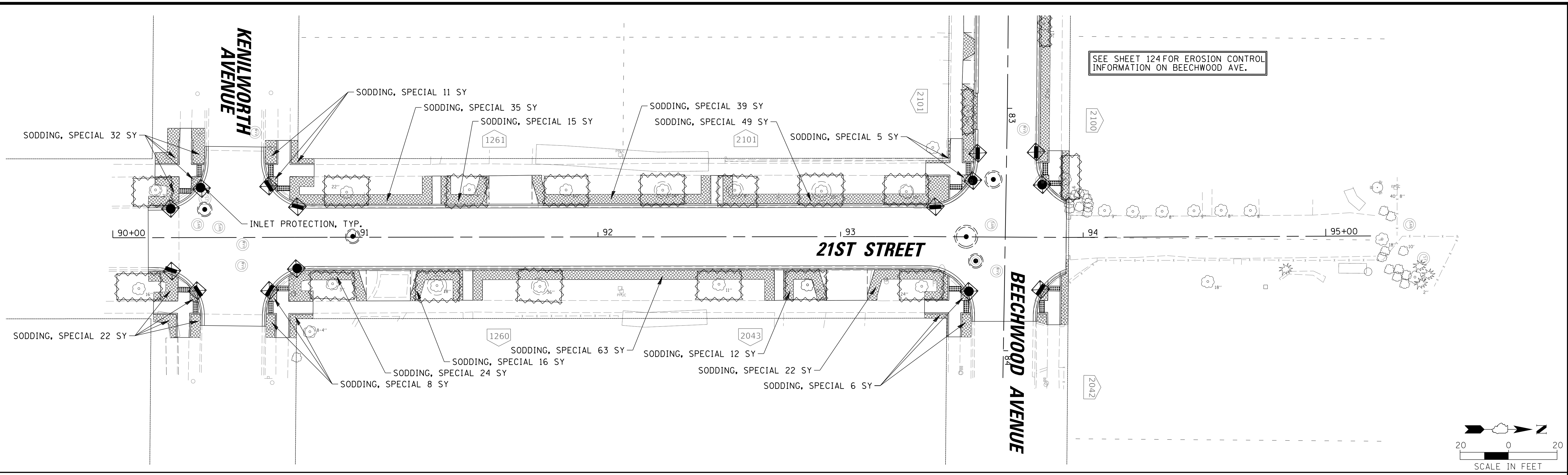
**BAXTER & WOODMAN**  
 Consulting Engineers


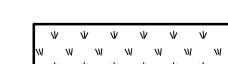




CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	CHKD.	MODEL:
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TITLE: **WSNSP CONTRACT #3  
 BEECHWOOD AVENUE  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 124 OF 207  
 DRAWING NO. **124**



- LEGEND**
-  SODDING, SPECIAL
  -  8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
  -  8" TOPSOIL, HYDROSEED
  -  INLET FILTER
  -  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  -  TREE PRUNING

- NOTES:**
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.

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 Rosemont, Illinois 60018  
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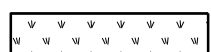
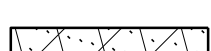



CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
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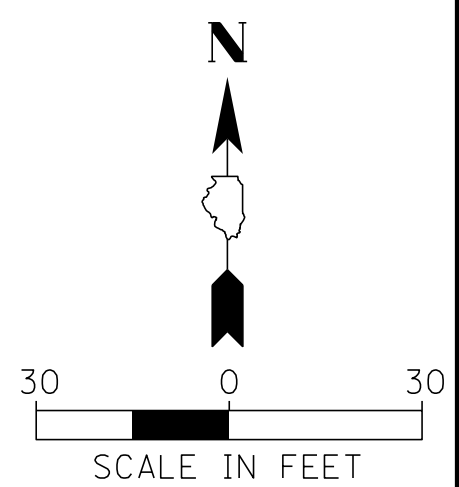
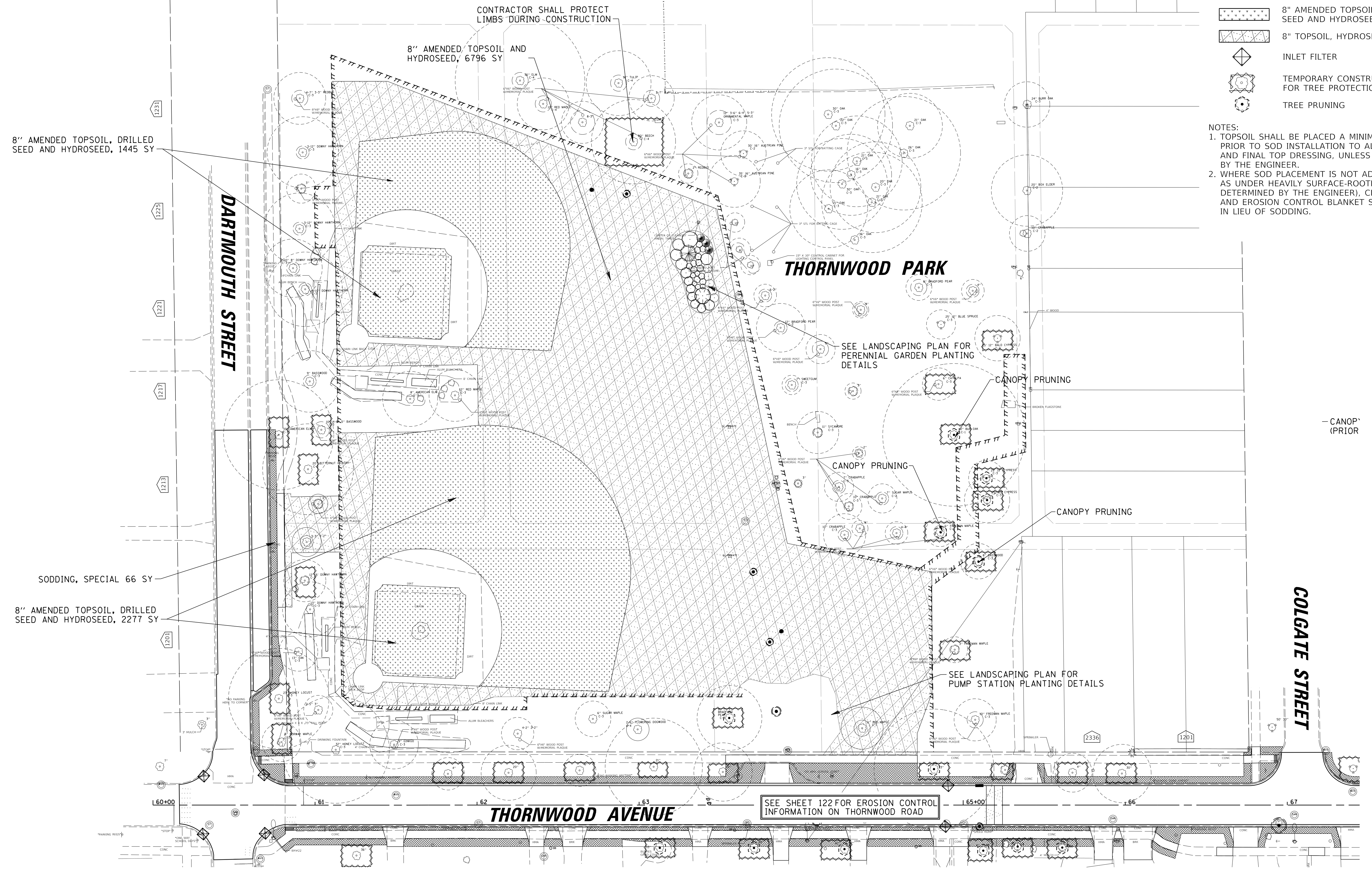
TITLE: **WSNSP CONTRACT #3  
 21ST STREET  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 125 OF 207  
 DRAWING NO. **125**

**LEGEND**

-  SODDING, SPECIAL
-  8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
-  8" TOPSOIL, HYDROSEED
-  INLET FILTER
-  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
-  TREE PRUNING

- NOTES:
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.



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 Rosemont, Illinois 60018  
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**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

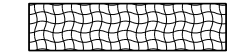





NO.	DATE	REVISION	CHKD.	MODEL:
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CHKD.	LMF
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PLOT DATE:	10/8/2021
CAD USER:	mkoonce

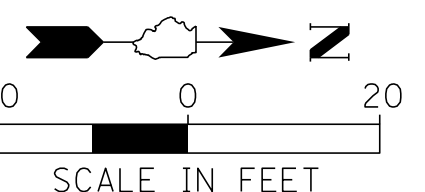
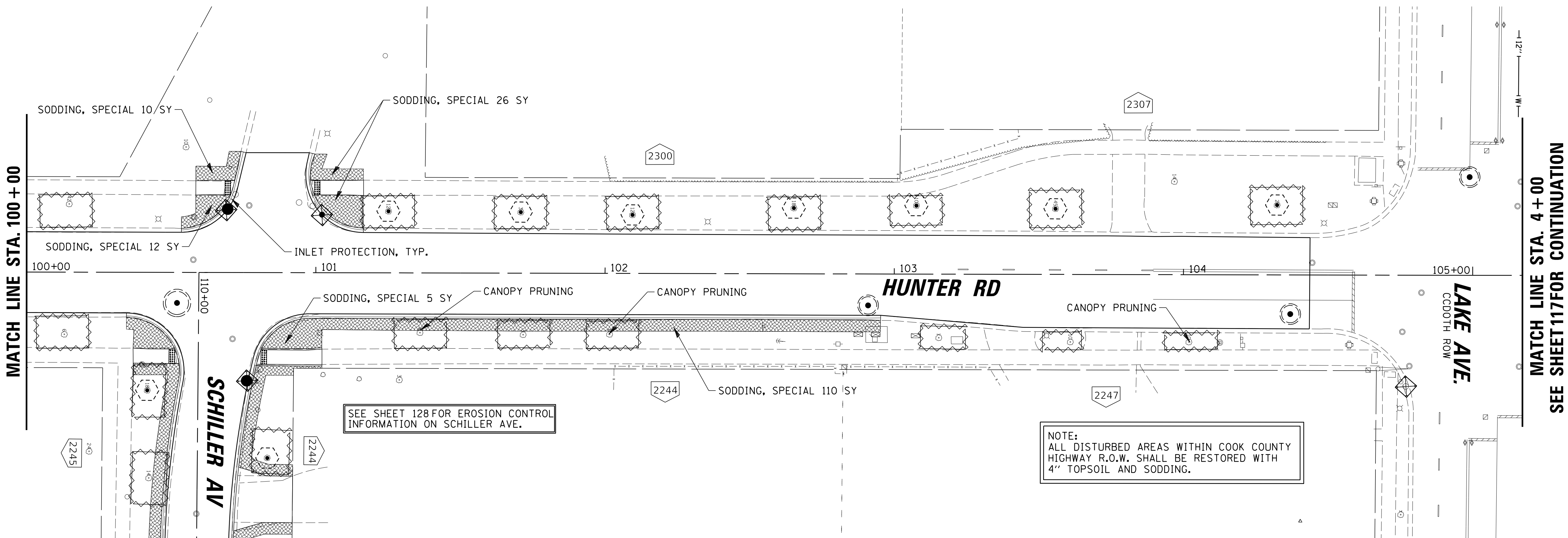
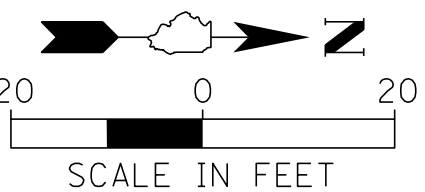
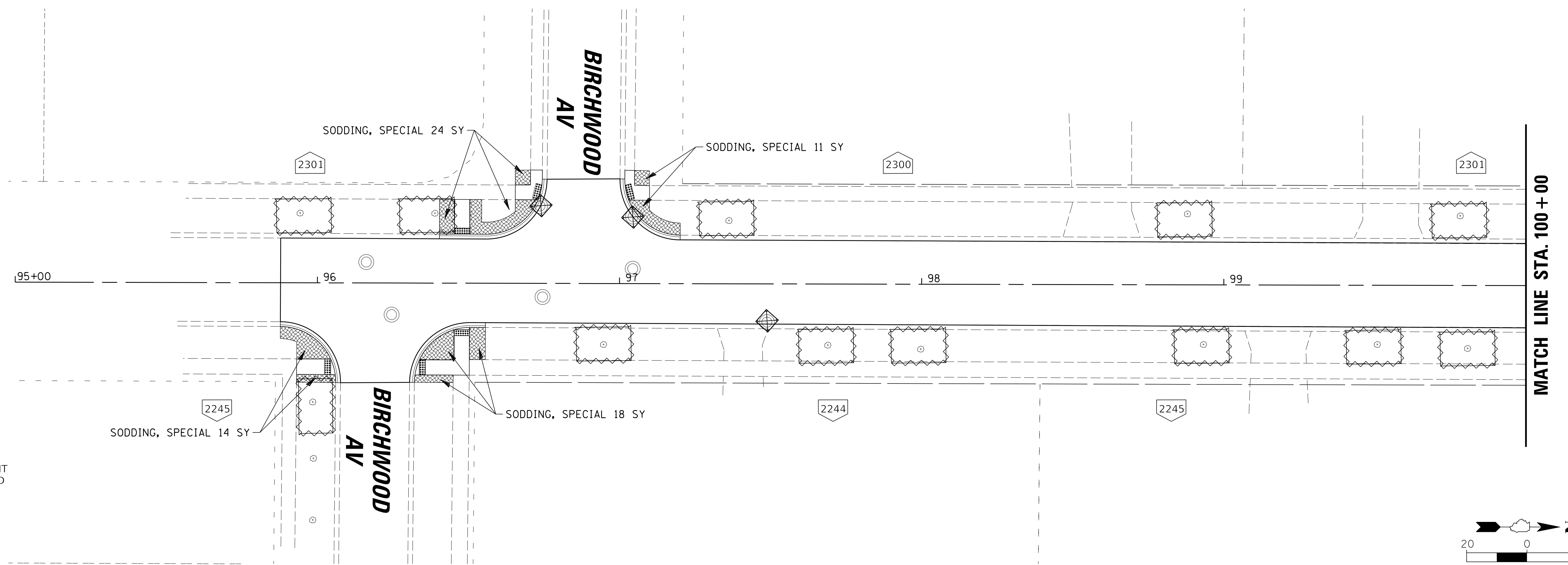
TITLE: **WSNSP CONTRACT #3  
 THORNWOOD PARK  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 126 OF 207  
 DRAWING NO. **126**

**LEGEND**

-  SODDING, SPECIAL
-  8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
-  8" TOPSOIL, HYDROSEED
-  INLET FILTER
-  TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
-  TREE PRUNING

- NOTES:
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500



CLIENT:



**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME: N:\wilmette\180245.00004\Civil\VECP_C3_180245_11.sht				

TITLE:

**WSNSP CONTRACT #3  
 HUNTER ROAD  
 EROSION CONTROL PLAN**

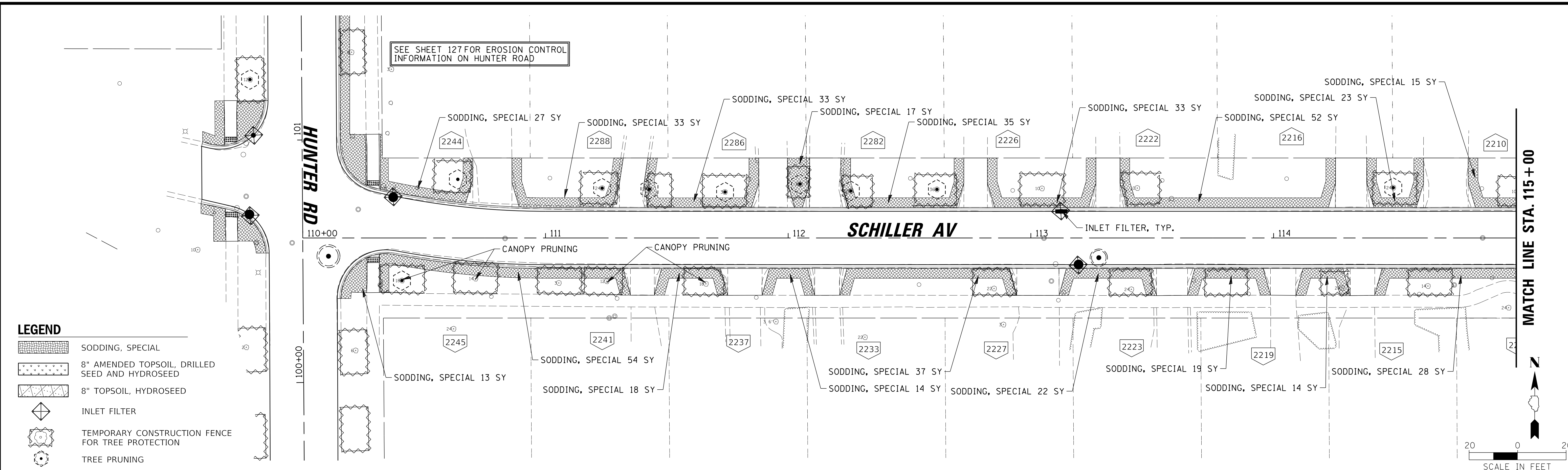
PROJ. NO. 180245.0004

DATE: 10/8/2021

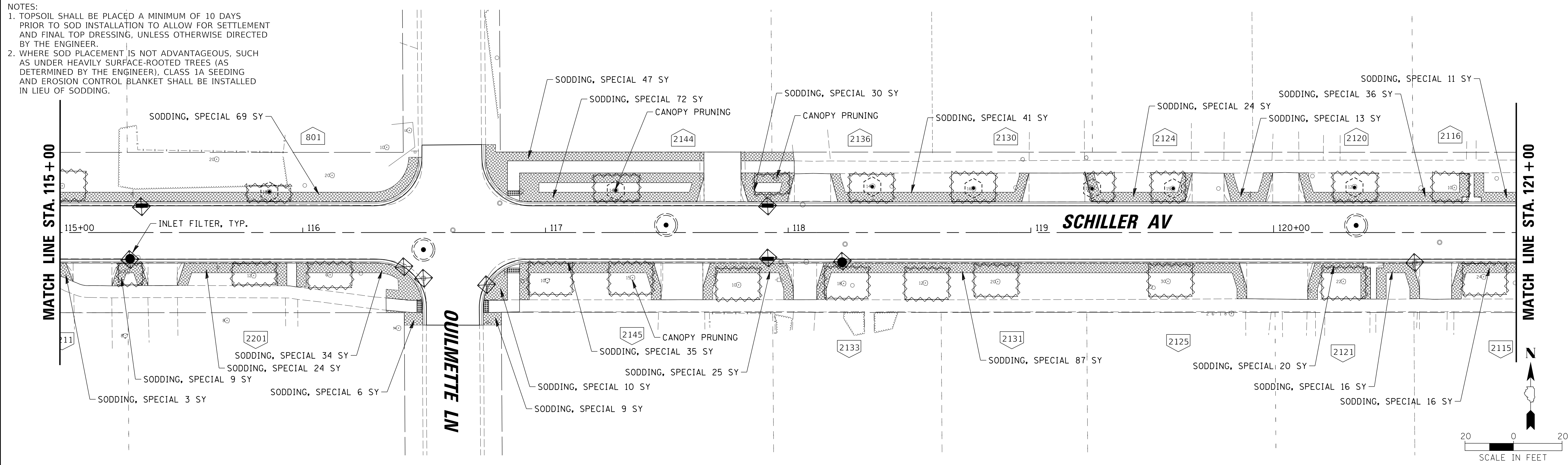
SHEET 127 OF 207

DRAWING NO.

**127**



NOTES:  
 1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.  
 2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.



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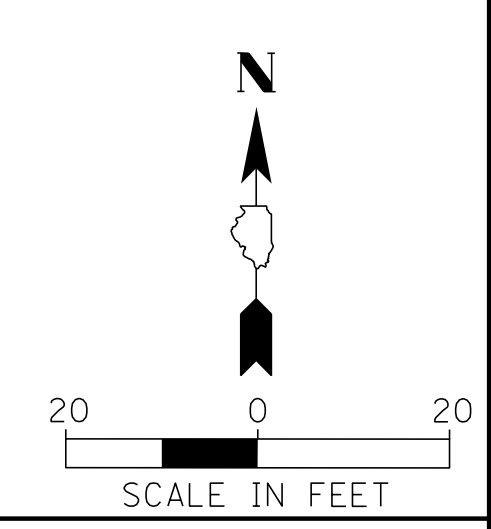
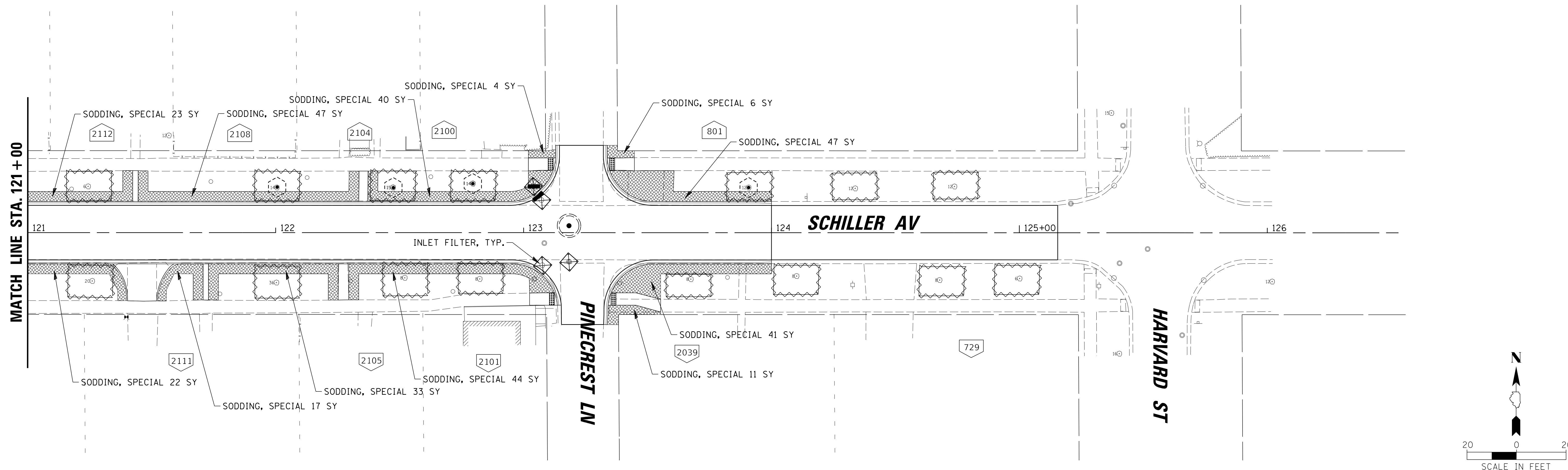
CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

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TITLE: **WSNSP CONTRACT #3  
 SCHILLER AVENUE  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 128 OF 207  
 DRAWING NO. **128**





- LEGEND**
- SODDING, SPECIAL
  - 8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
  - 8" TOPSOIL, HYDROSEED
  - INLET FILTER
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - TREE PRUNING

- NOTES:**
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.

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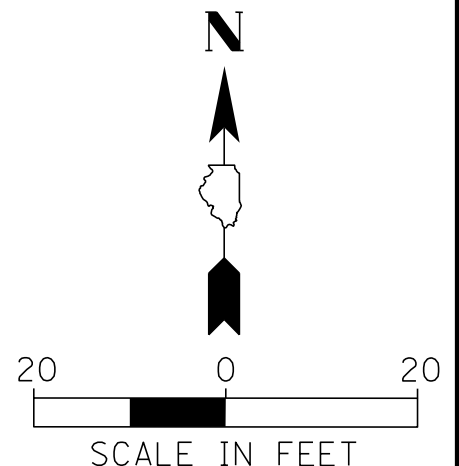
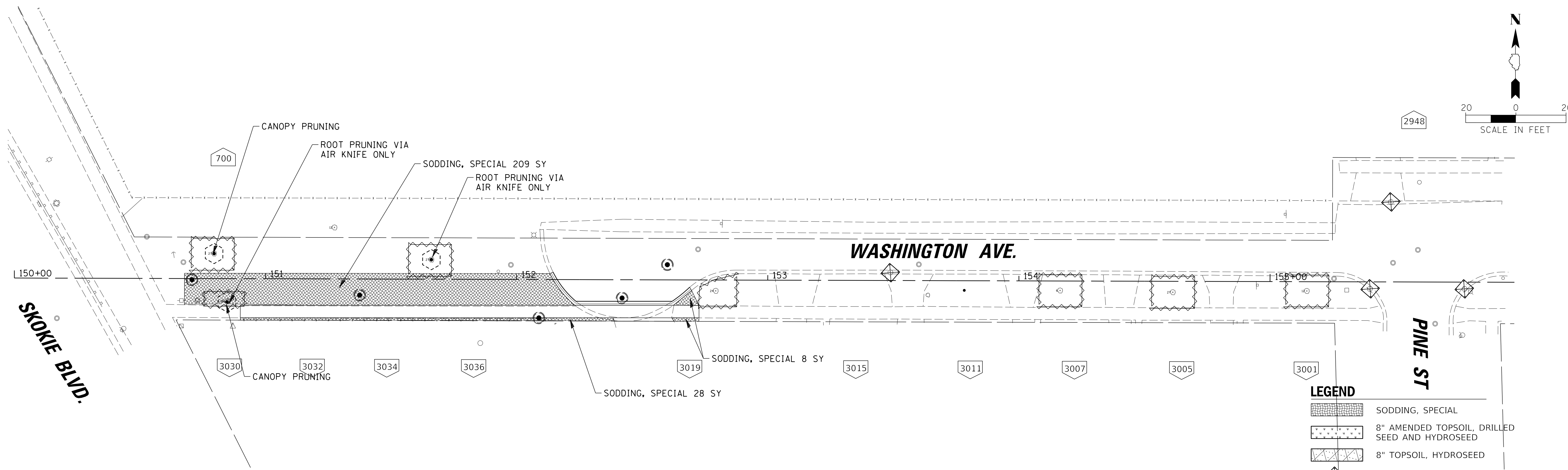
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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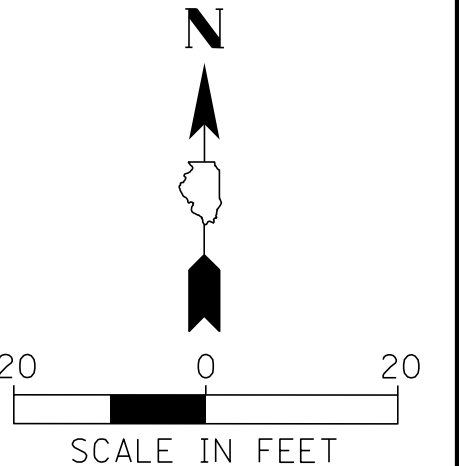
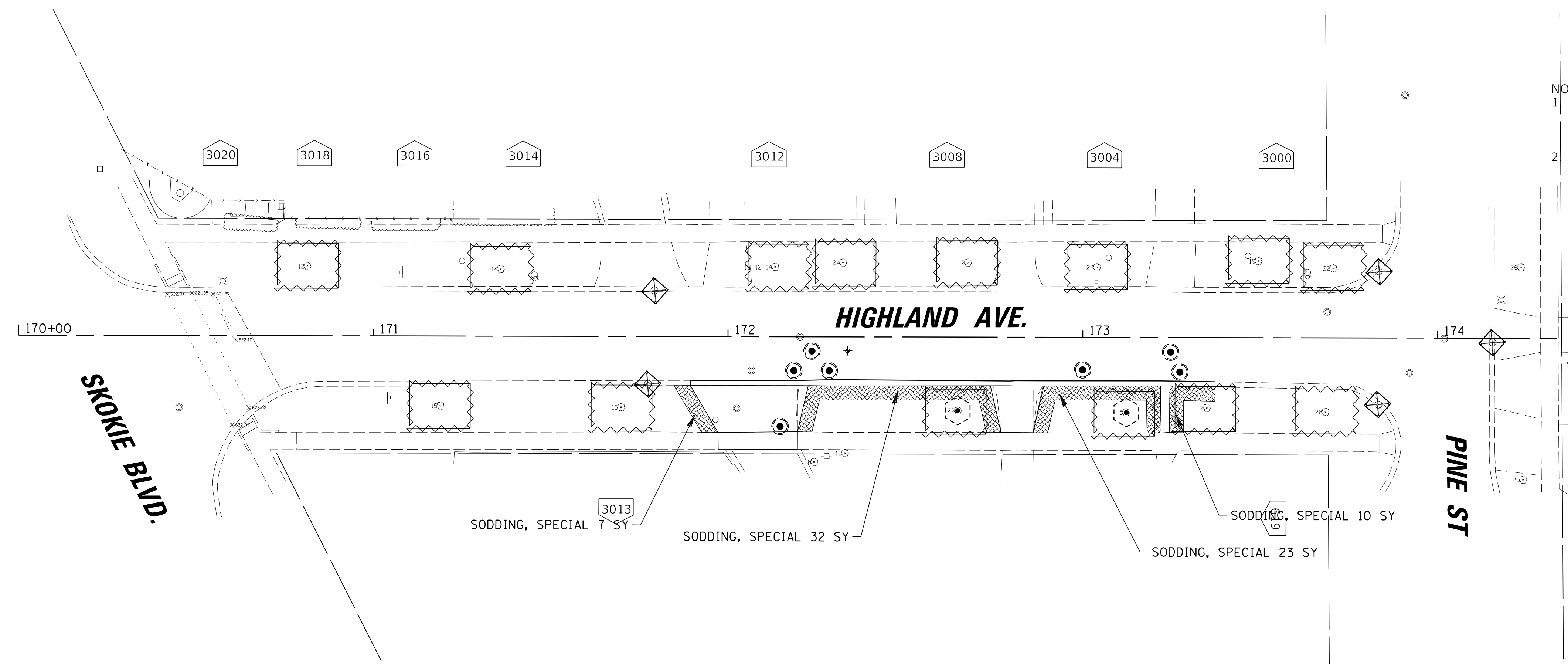
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 SCHILLER AVENUE  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 129 OF 207  
 DRAWING NO. **129**



- LEGEND**
- SODDING, SPECIAL
  - 8" AMENDED TOPSOIL, DRILLED SEED AND HYDROSEED
  - 8" TOPSOIL, HYDROSEED
  - INLET FILTER
  - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
  - TREE PRUNING

- NOTES:**
1. TOPSOIL SHALL BE PLACED A MINIMUM OF 10 DAYS PRIOR TO SOD INSTALLATION TO ALLOW FOR SETTLEMENT AND FINAL TOP DRESSING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. WHERE SOD PLACEMENT IS NOT ADVANTAGEOUS, SUCH AS UNDER HEAVILY SURFACE-ROOTED TREES (AS DETERMINED BY THE ENGINEER), CLASS 1A SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED IN LIEU OF SODDING.



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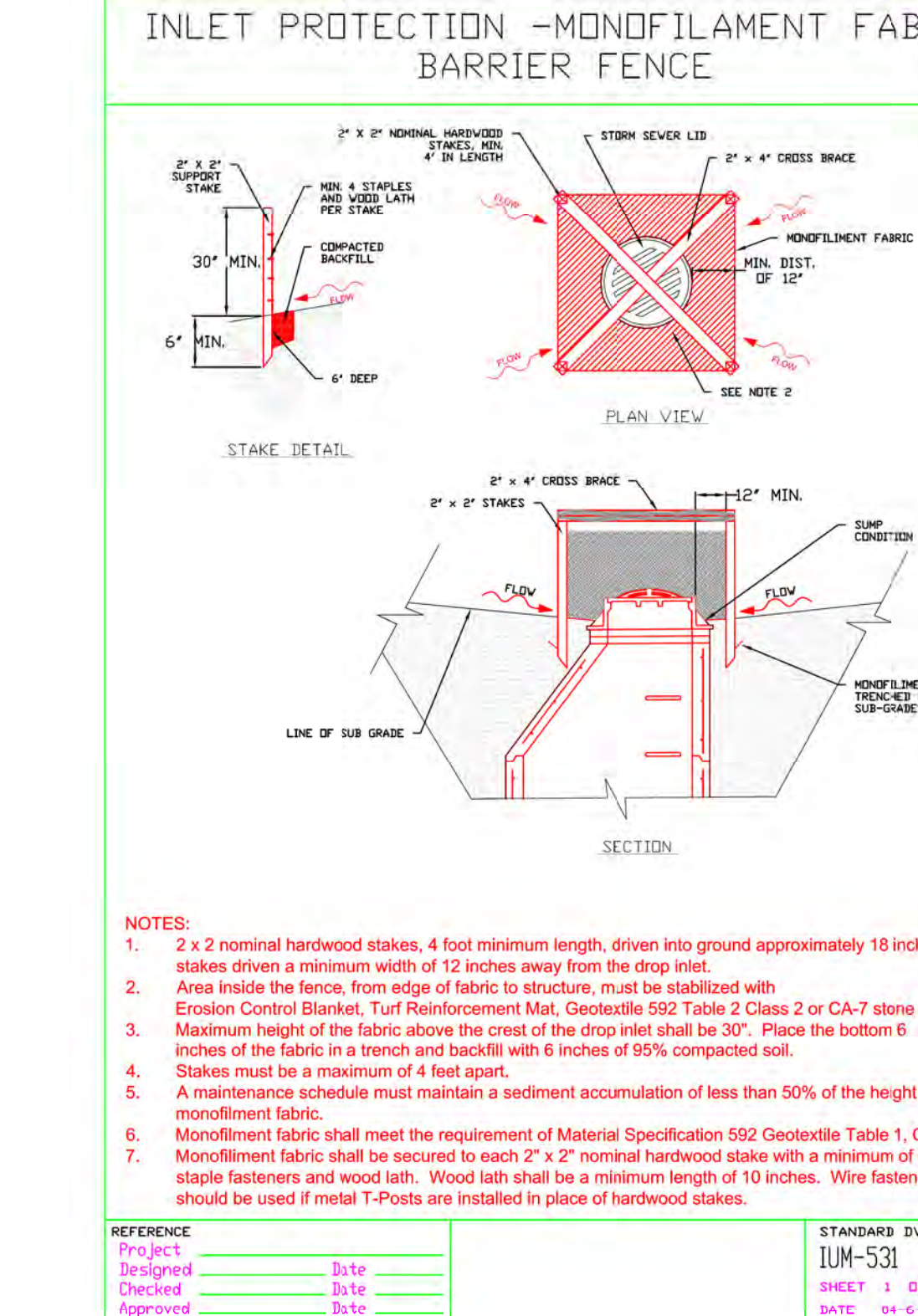
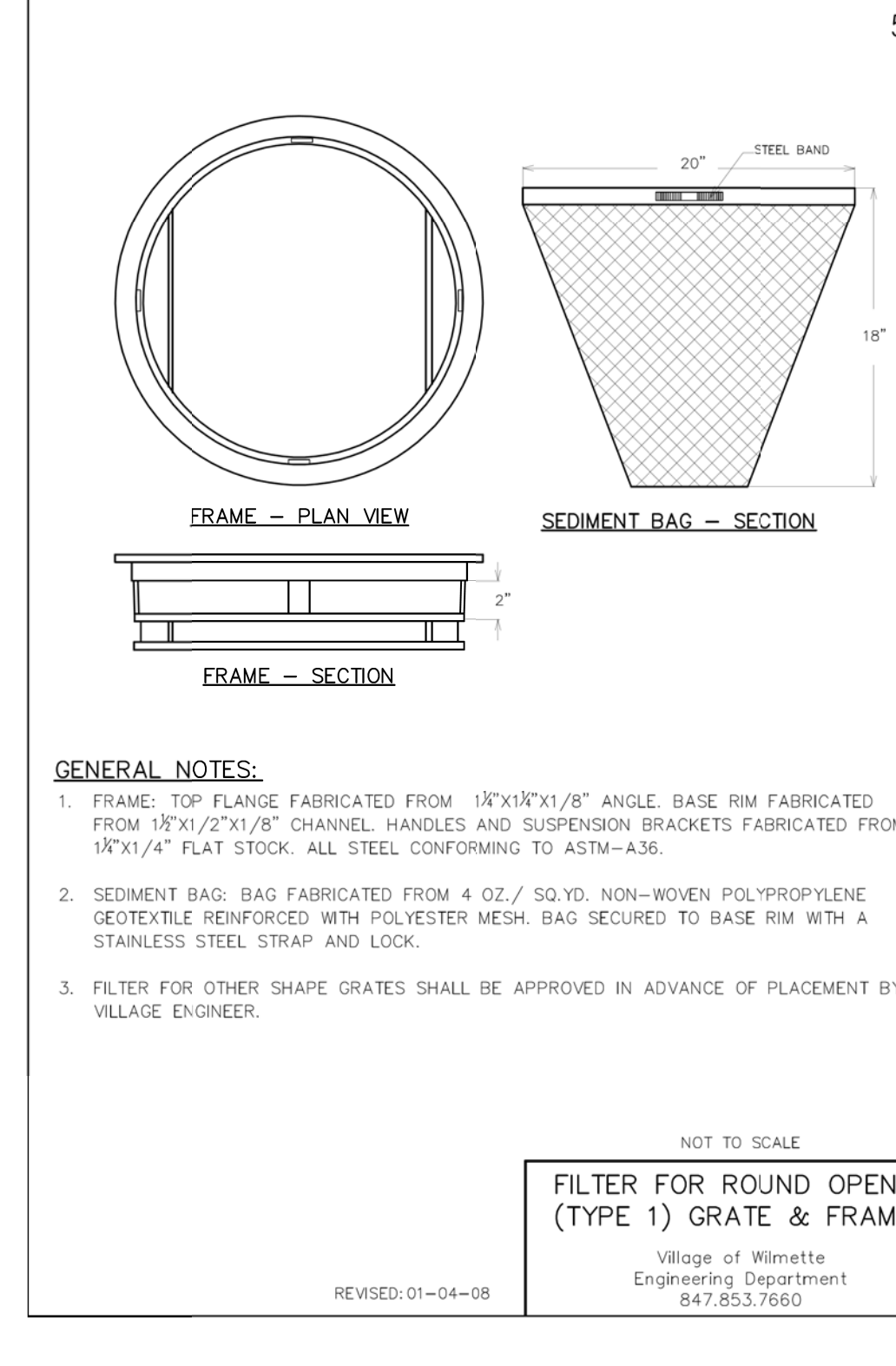
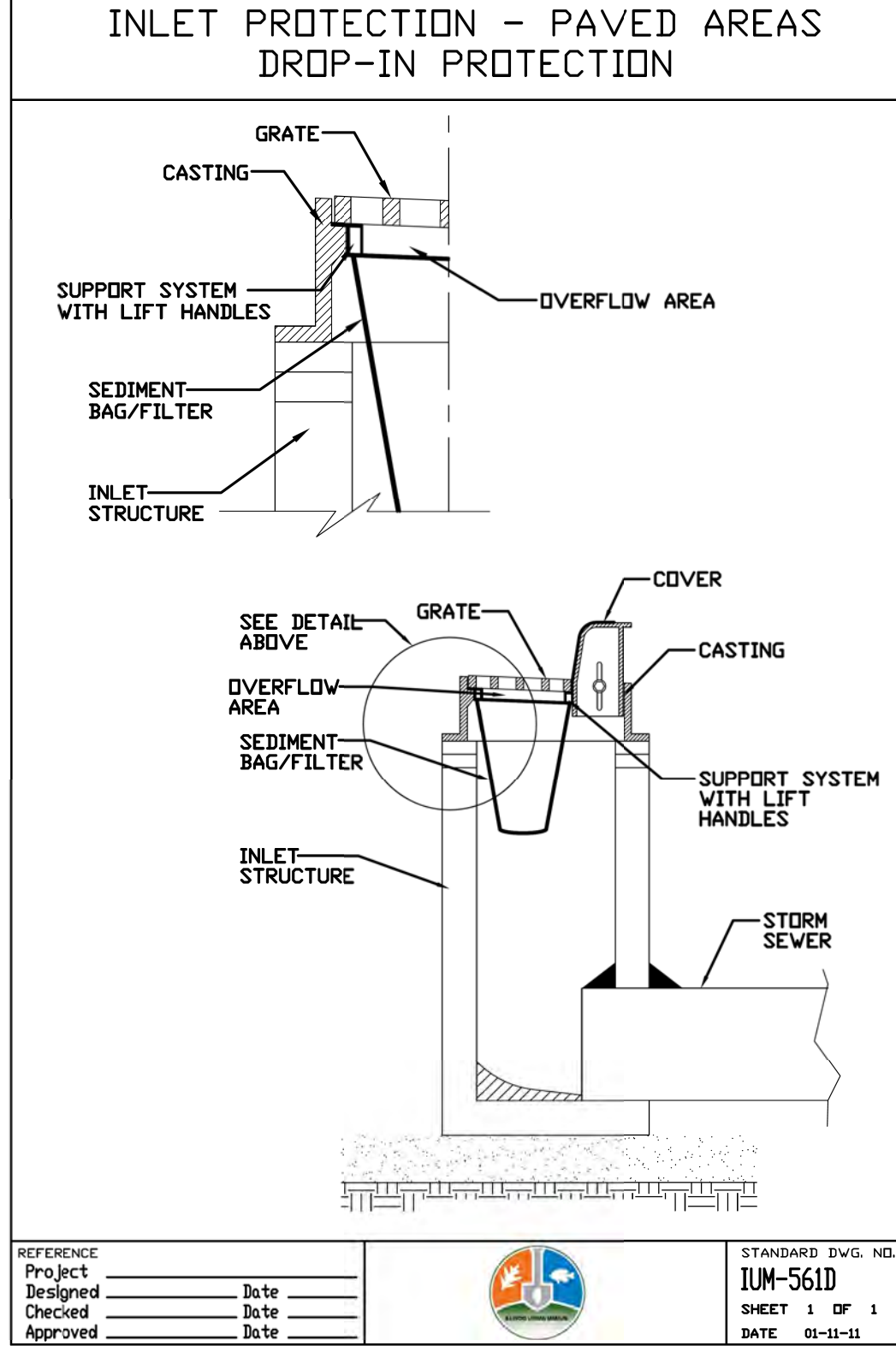
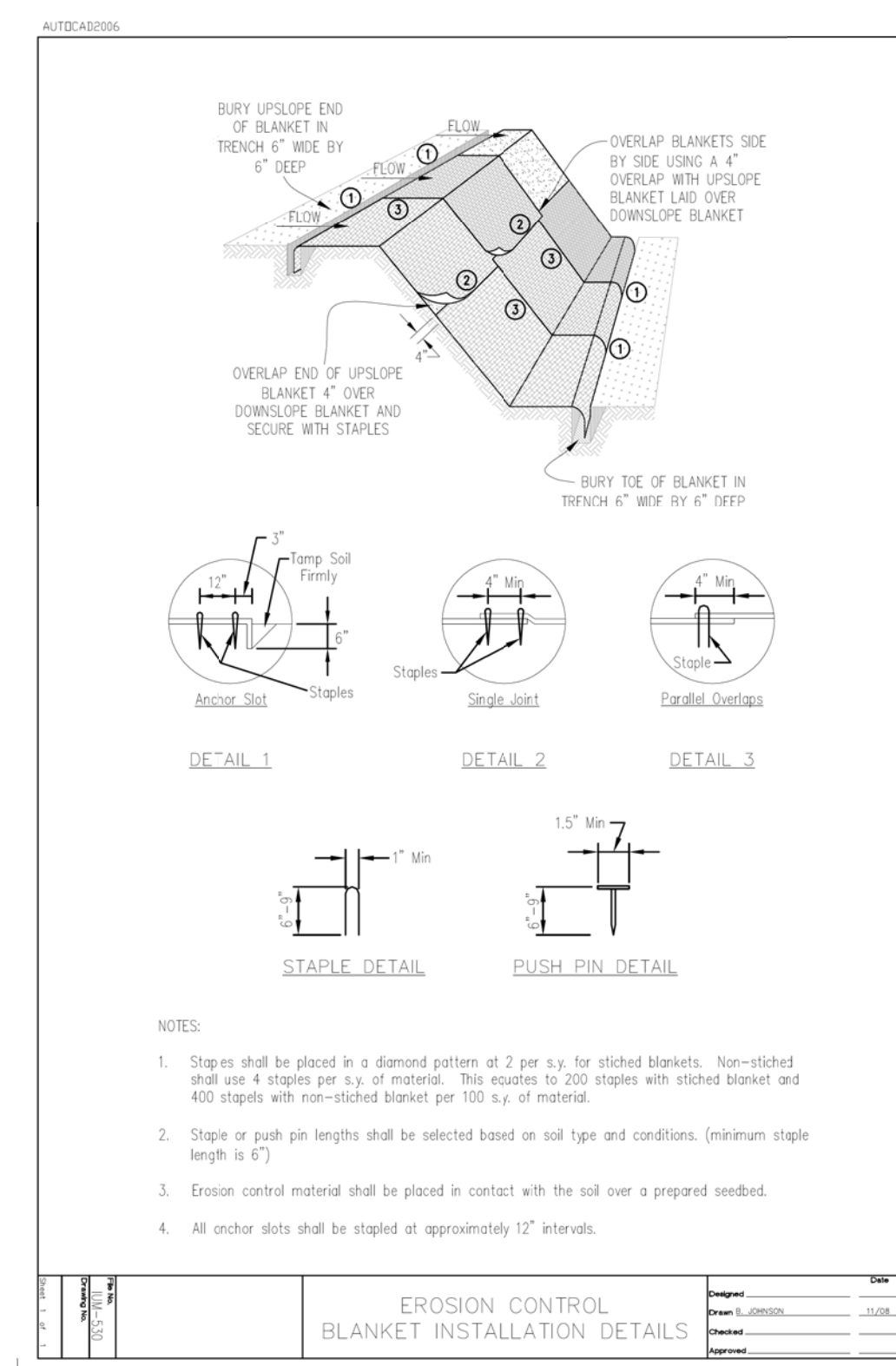
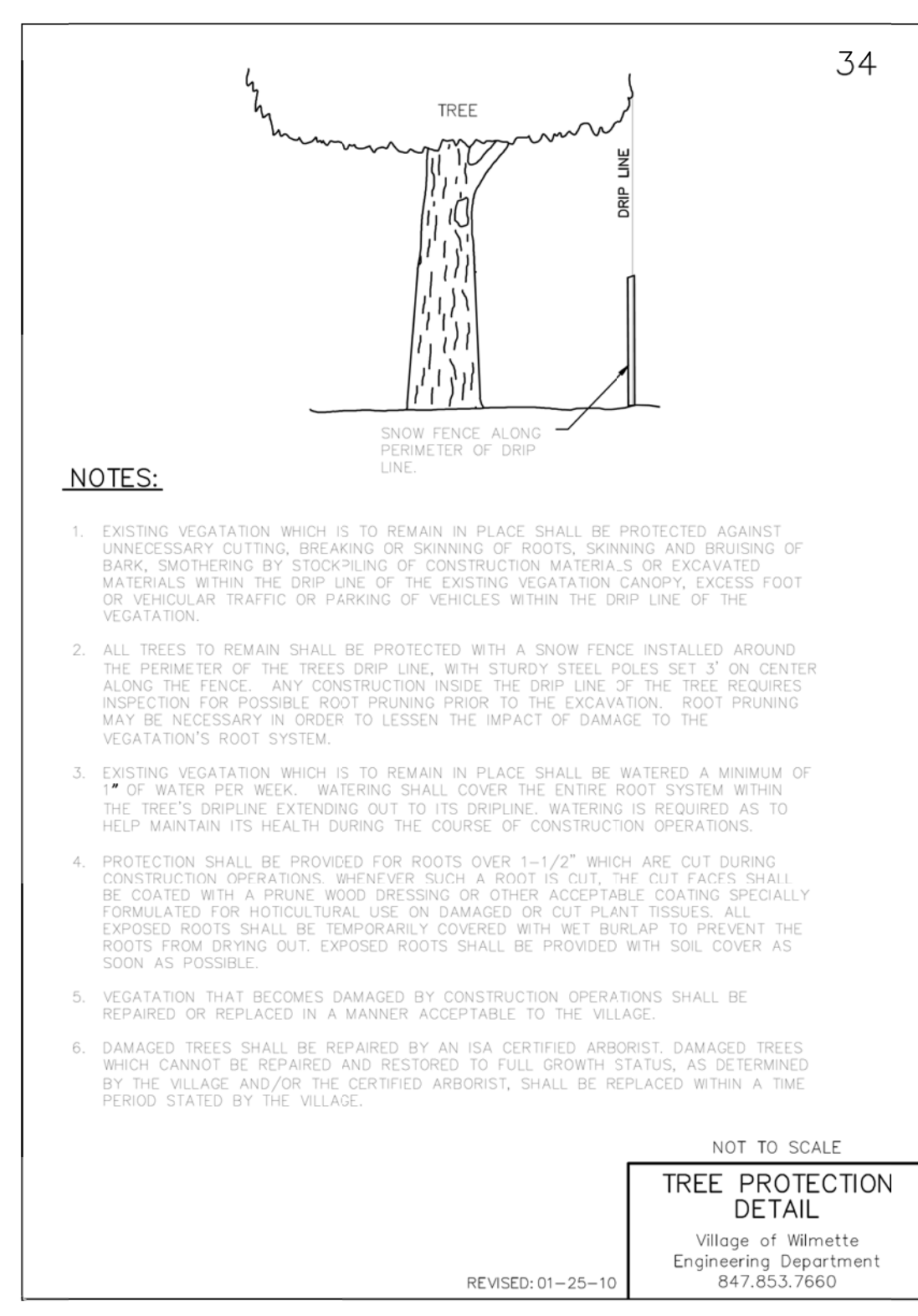
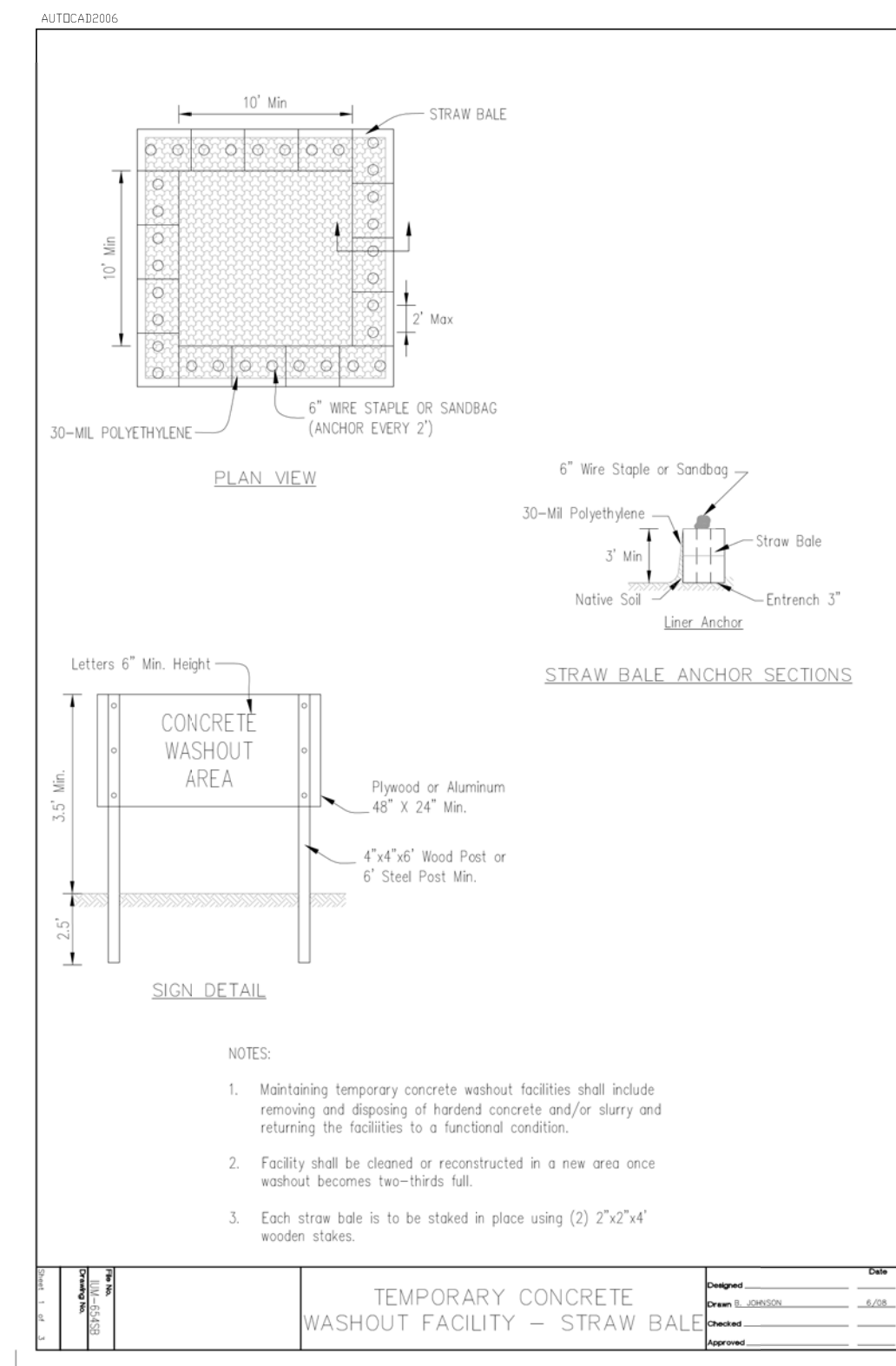
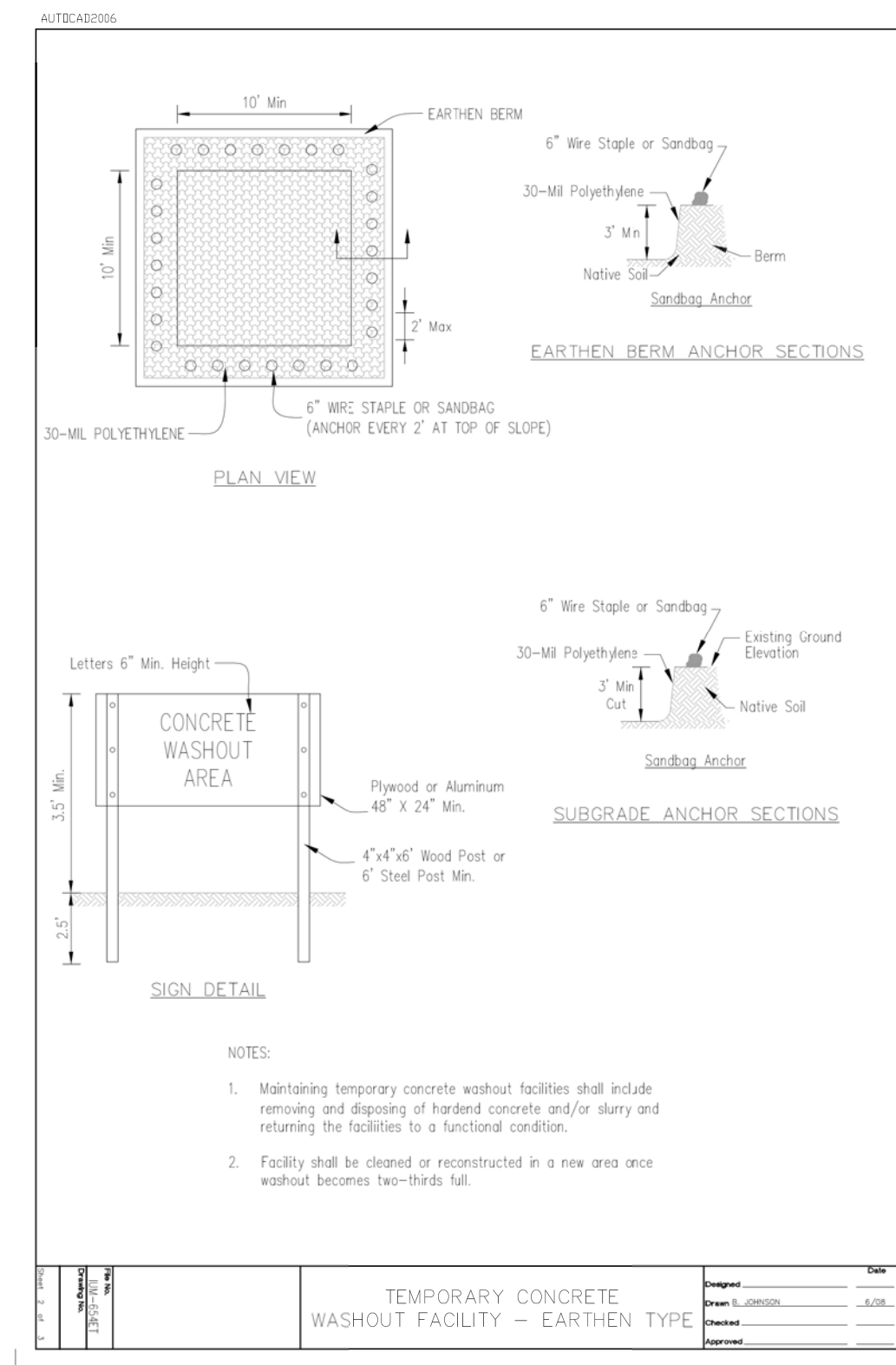
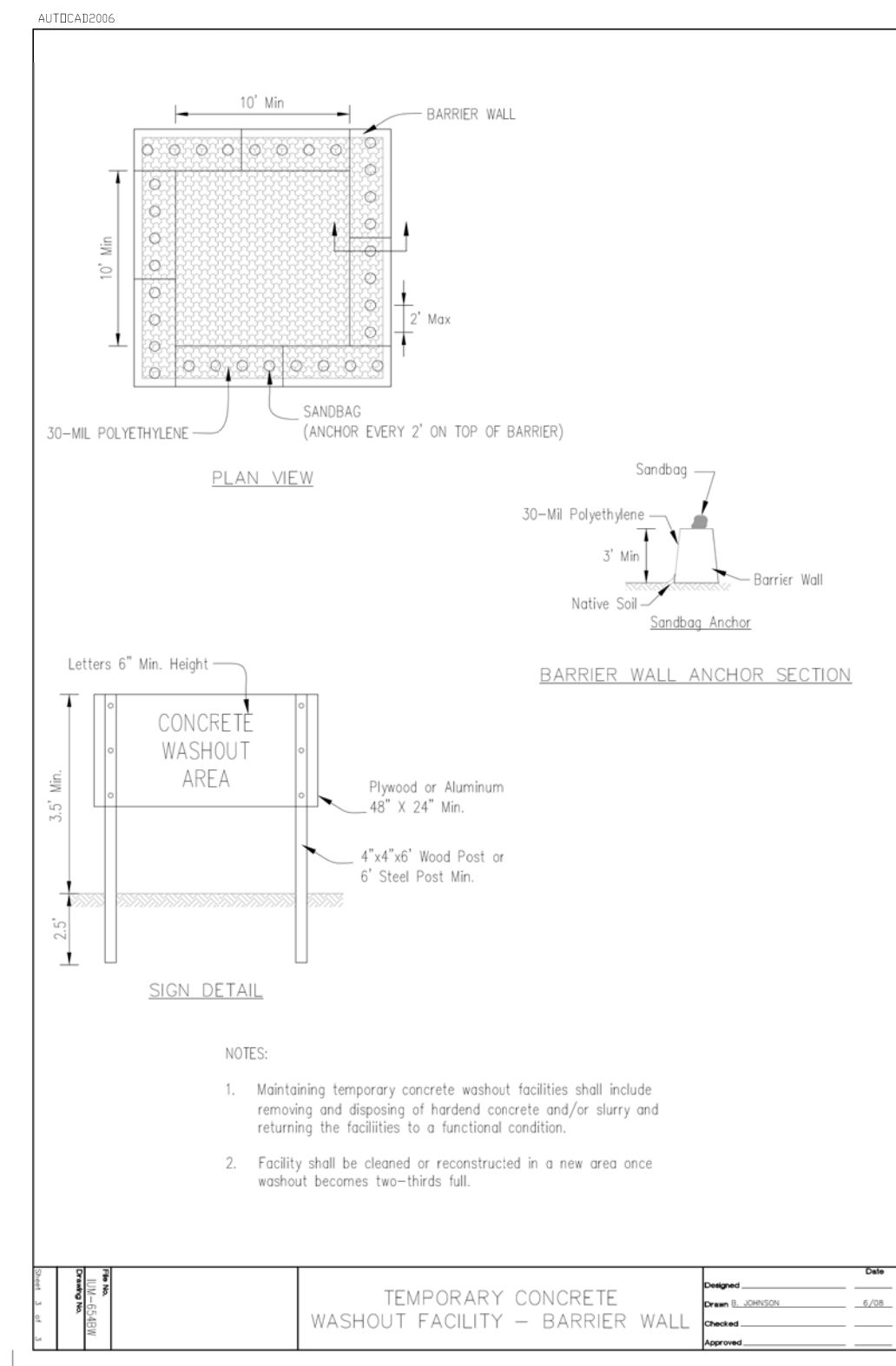
**BAXTER & WOODMAN**  
 Consulting Engineers

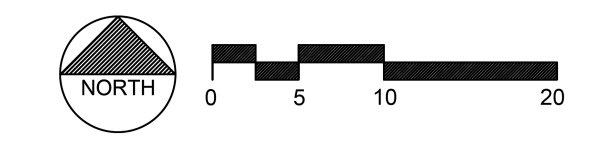
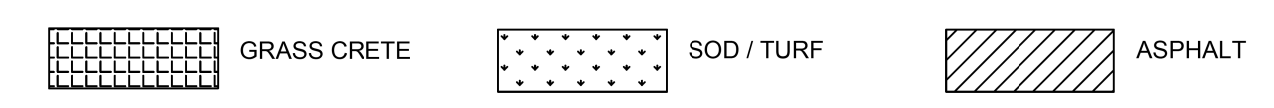
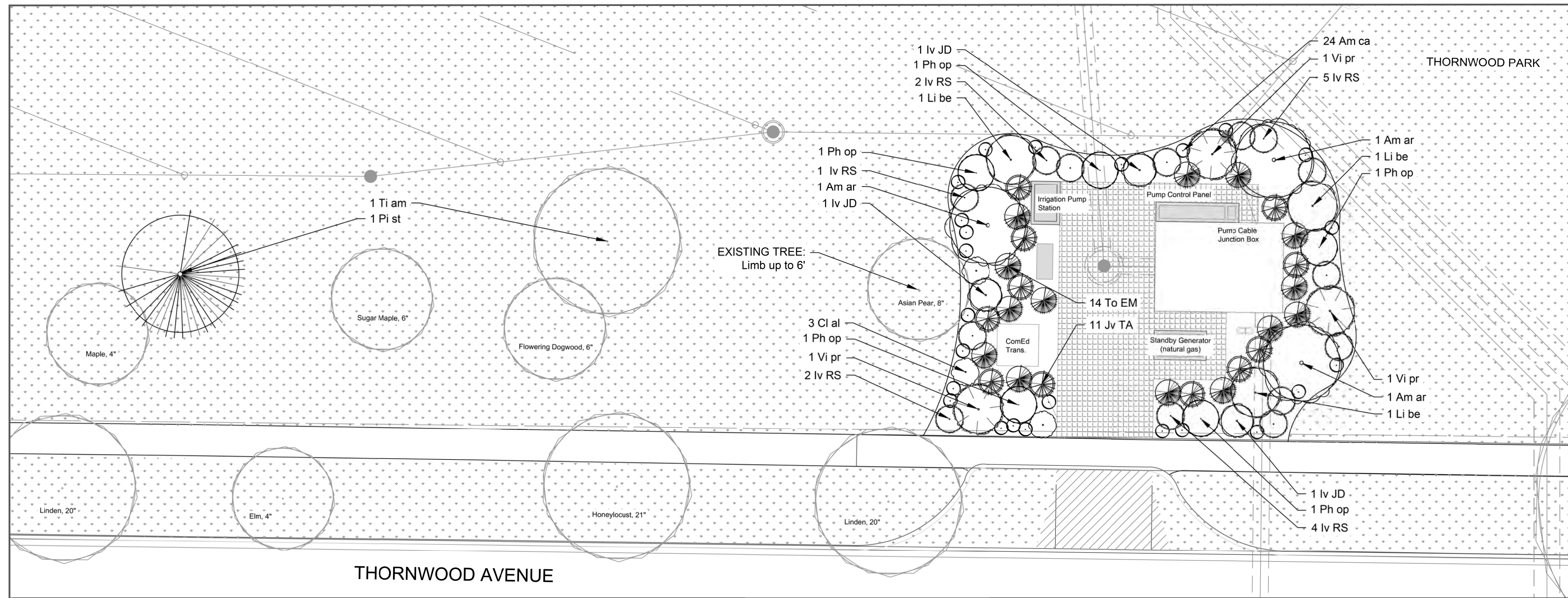
CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

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TITLE: **WSNSP CONTRACT #3  
 WASHINGTON & HIGHLAND AVE.  
 EROSION CONTROL PLAN**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 130 OF 207  
 DRAWING NO. **130**



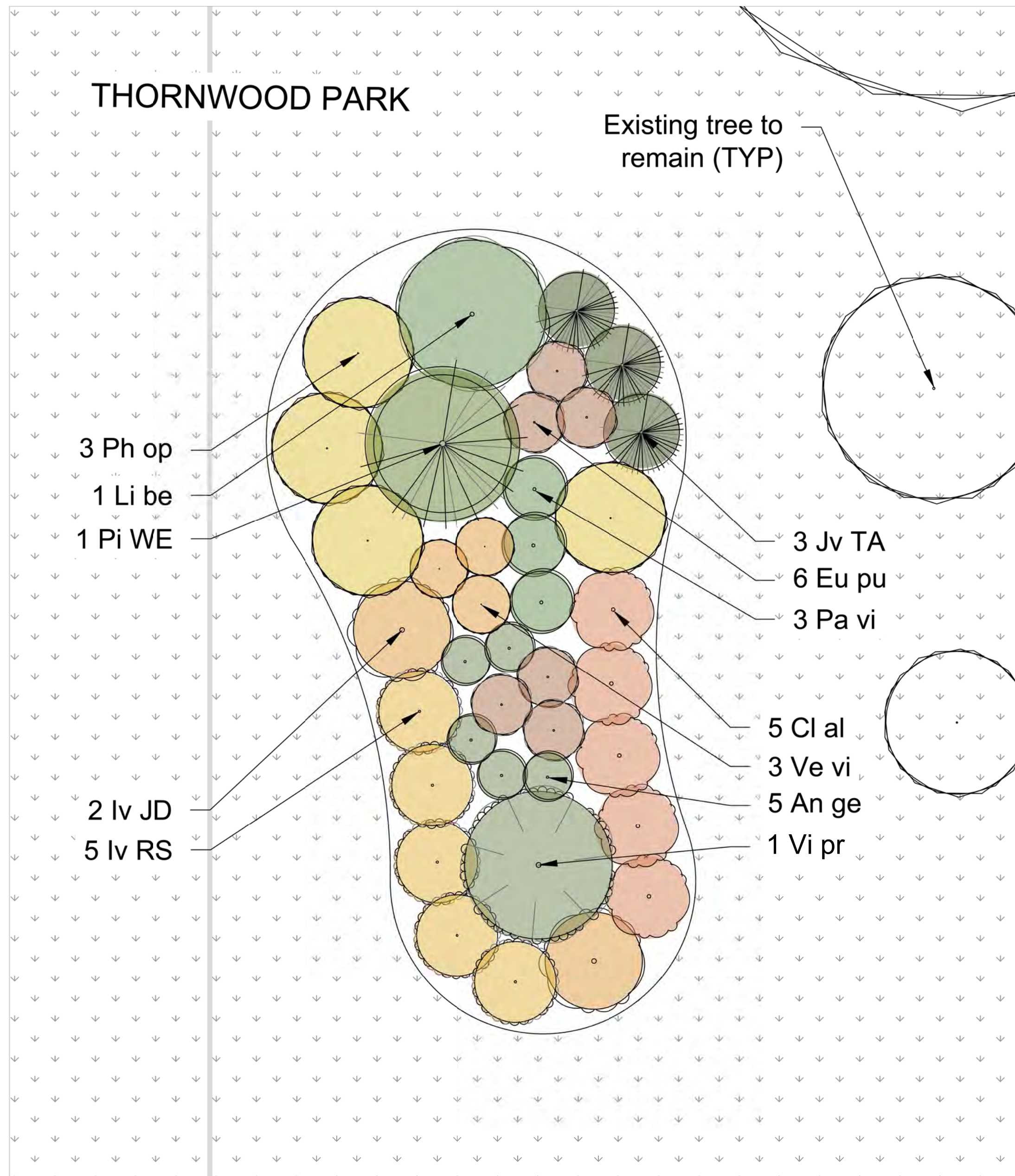


**Village of Wilmette  
Thornwood Park**

**Plant Schedule**

Sym	Botanical Name	Common Name	Qty.	Size	Cond.
<b>Deciduous Tree</b>					
Ti am	Tilia americana	American Linden/Basswood	1	2.5"	B&B
<b>Evergreen Tree</b>					
Jv TA	Juniperus virginiana 'Taylor'	Taylor Eastern Red Cedar	11	6'	B&B
Pi st	Pinus strobus	Eastern White Pine	1	8'	B&B
<b>Evergreen Shrub</b>					
To EM	Thuja occidentalis 'Emerald'	Emerald Green Arborvitae	14	4'	B&B
<b>Ornamental Shrub</b>					
Am ca	Amorpha canescens	Lead Plant	24	#3	Cont.
Am Ar	Amelanchier arborea	Downy Serviceberry	3	#7-10	Cont.
Cl al	Clethra alnifolia	Sweet Pepperbush	3	2'	Cont.
Iv JD	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry (MALE)	3	2'	Cont.
Iv RS	Ilex verticillata 'Nana'	Red Sprite Winterberry (FEMALE)	14	2'	Cont.
Li be	Lindera benzoin	Northern Spicebush	3	5G	Cont.
Ph op	Physocarpus opulifolius	Eastern Ninebark	5	5G	Cont.
Vi pr	Viburnum prunifolium	Blackhaw Viburnum	3	4'	Cont.

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	BJ
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**Village of Wilmette  
Thornwood Park**

**Plant Schedule**

Sym	Botanical Name	Common Name	Qty.	Size	Cond.
<b>Evergreen Tree</b>					
Pi WE	Picea glauca 'Weeping'	Weeping White Spruce	1	8'	B&B
Jv TA	Juniperus virginiana 'Taylor'	Taylor Eastern Red Cedar	3	6'	B&B
<b>Ornamental Shrub</b>					
Cl al	Clethra alnifolia	Sweet Pepperbush	5	2'	Cont.
Iv JD	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry (MALE)	2	2'	Cont.
Iv RS	Ilex verticillata 'Nana'	Red Sprite Winterberry (FEMALE)	5	2'	Cont.
Li be	Lindera benzoin	Northern Spicebush	1	5G	Cont.
Ph op	Physocarpus opulifolius	Eastern Ninebark	4	5G	Cont.
Vi pr	Viburnum prunifolium	Blackhaw Viburnum	1	4'	Cont.
<b>Perennials and Grasses</b>					
An ge	Andropogon gerardii	Big Blue Stem	5	1G	Cont.
Eu pu	Eutrochium purpureum	Joe Pie Weed	6	1G	Cont.
Pa vi	Panicum virgatum	Switchgrass	3	1G	Cont.
Ve vi	Veronicastrum virginicum	Culver's Root	3	1G	Cont.



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**BAXTER & WOODMAN**  
Consulting Engineers

CLIENT: **Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
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DSGN.	BJ	TITLE:
DWN.	BJ	
CHKD.	DC	<b>WSNSP CONTRACT #3 THORNWOOD PARK LANDSCAPING PLAN</b>
SCALE:		
PLOT DATE:	10/8/2021	PROJ. NO. 180245.0004
CAD USER:	mkoonce	DATE: 10/8/2021
MODEL:	Default	SHEET 133 OF 207
		DRAWING NO.
		<b>133</b>

GENERAL LANDSCAPE NOTES:

1. ALL ALTERATIONS AND PLANT SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
2. CONTRACTORS MUST VERIFY ALL QUANTITIES AND OBTAIN ALL PROPER PERMITS AND LICENSES FROM THE PROPER AUTHORITIES.
3. ALL LANDSCAPE IMPROVEMENTS SHALL MEET MUNICIPALITY REQUIREMENTS AND GUIDELINES, WHICH SHALL BE VERIFIED BY MUNICIPAL AUTHORITIES.
4. ALL MATERIAL MUST MEET INDUSTRY STANDARDS AND THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REFUSE ANY POOR MATERIAL OR WORKMANSHIP.
5. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR UNSEEN SITE CONDITIONS.
6. ALL PLANTINGS SHALL BE SPACED EQUAL DISTANT, BACKFILLED WITH AMENDED SOIL IN A HOLE TWICE THE ROOTBALL DIAMETER, WATERED, FERTILIZED, PRUNED AND HAVE ALL TAGS AND ROPES REMOVED.
7. TREES SHALL BE STAKED AND GUYED AND WATERING SAUCER AT BASE.
8. ALL MASS PLANTED SHRUB BEDS TO BE BERMED 2" TO 3" ABOVE GRADE AND MEET DRAINAGE REQUIREMENTS.
9. LAWN AND BED AREAS SHALL BE ROTOTILLED AND CLUMPS OF SOIL, AGGREGATES AND DEBRIS RAKED OUT AND REMOVED FROM THE SITE.
10. ALL DISTURBED AREAS SHALL HAVE A MIN. OF 6" OF TOPSOIL PLACED AND THEN SEED, FERTILIZER AND BLANKET INSTALLED.
11. ALL BEDS SHALL BE EDGED, HAVE WEED PRE-EMERGENTS APPLIED AT THE RECOMMENDED RATE.
12. SHREDDED HARDWOOD MULCH SPREAD AT A MINIMUM OF 3" DEPTH THROUGHOUT ALL NEW LANDSCAPE BEDS AND AROUND THE BASE OF ALL NEW TREES PLANTED OUTSIDE OF A LANDSCAPE BED.
13. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

MAINTENANCE.

1. FOLLOWING THE MULCHING OPERATION, FOOT AND VEHICULAR TRAFFIC, OR THE MOVEMENT OF EQUIPMENT OVER THE MULCHED AREA SHALL BE PROHIBITED. PROMPTLY AFTER SEEDING, WET THE UPPER 1" OF SEEDBED THOROUGHLY, KEEPING ALL AREAS MOIST THROUGHOUT THE GERMINATION PROCESS AND THE GRASS HAS REACHED A HEIGHT OF 1 INCH. THE SURFACE OF THE SOIL SHALL NOT BE ALLOWED TO DRY OUT BUT AREAS OF STANDING WATER ARE NOT PERMITTED.
2. AT ANY LOCATION WHERE MULCHING HAS BEEN DISPLACED BY ANY CONTRACTOR'S EQUIPMENT OR PERSONNEL, THE SEEDING AND MULCH OR OTHER WORK DAMAGED AS A RESULT OF THAT DISPLACEMENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE, IN A MANNER SATISFACTORY TO THE OWNER.

SUPPLEMENTAL WATERING.

1. ONCE THE NEW SEED HAS REACHED A HEIGHT OF 1" OR GREATER SUPPLEMENTAL WATERING MAY BE REQUIRED IN THE EVENT OF INADEQUATE RAINFALL, AS DETERMINED BY THE OWNER.
2. SUPPLEMENTAL WATER SHALL BE APPLIED WITHIN 24 HOURS OF NOTIFICATION FROM THE OWNER. USE A DIFFUSING TYPE ATTACHMENT FOR HOSE WATERING TO CREATE A LIGHT SPRINKLING EFFECT.
3. THE WATER SHALL BE APPLIED AT THE RATE OF 1 INCH PER WEEK ACROSS THE SURFACE OF ALL SEEDED AREAS.

**CB** **CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
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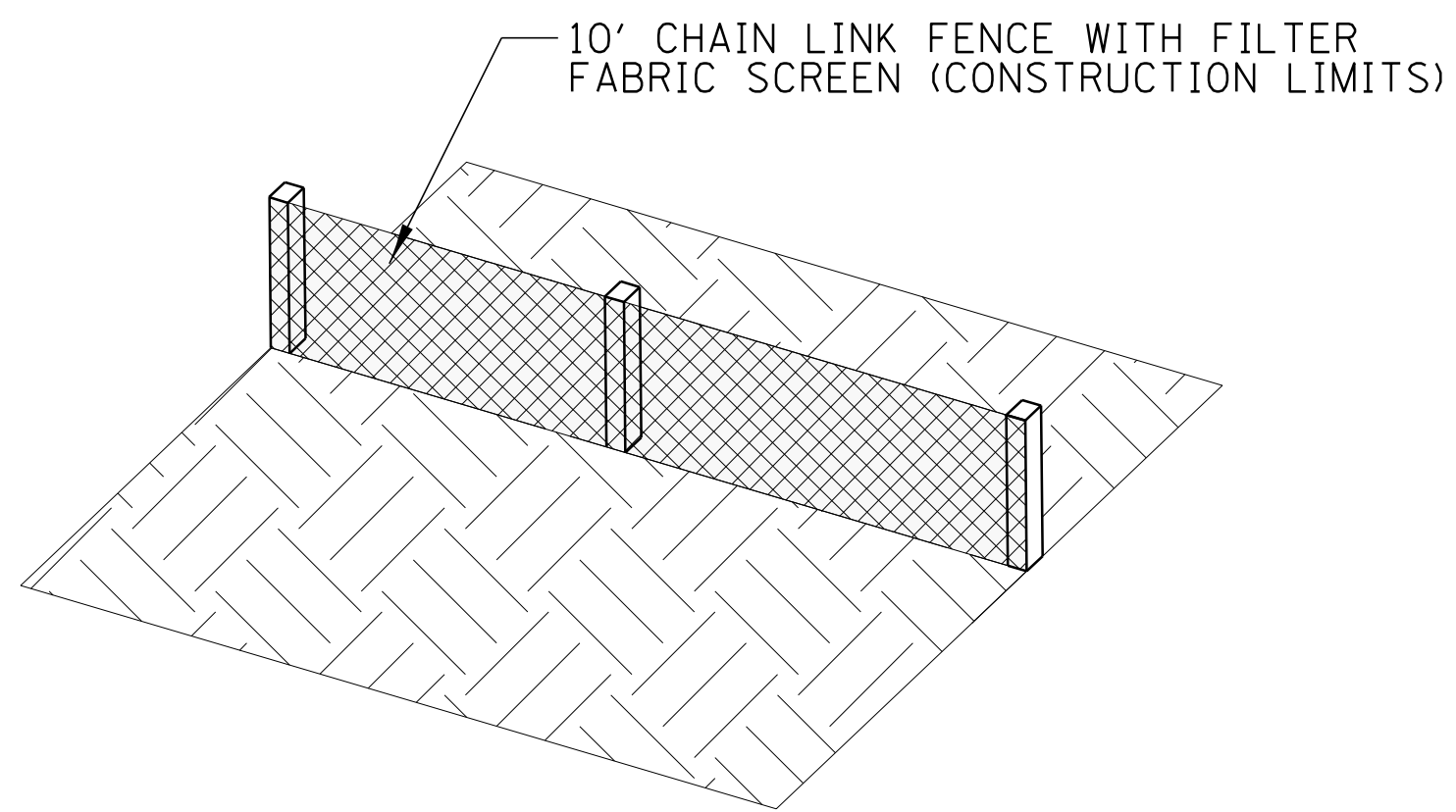
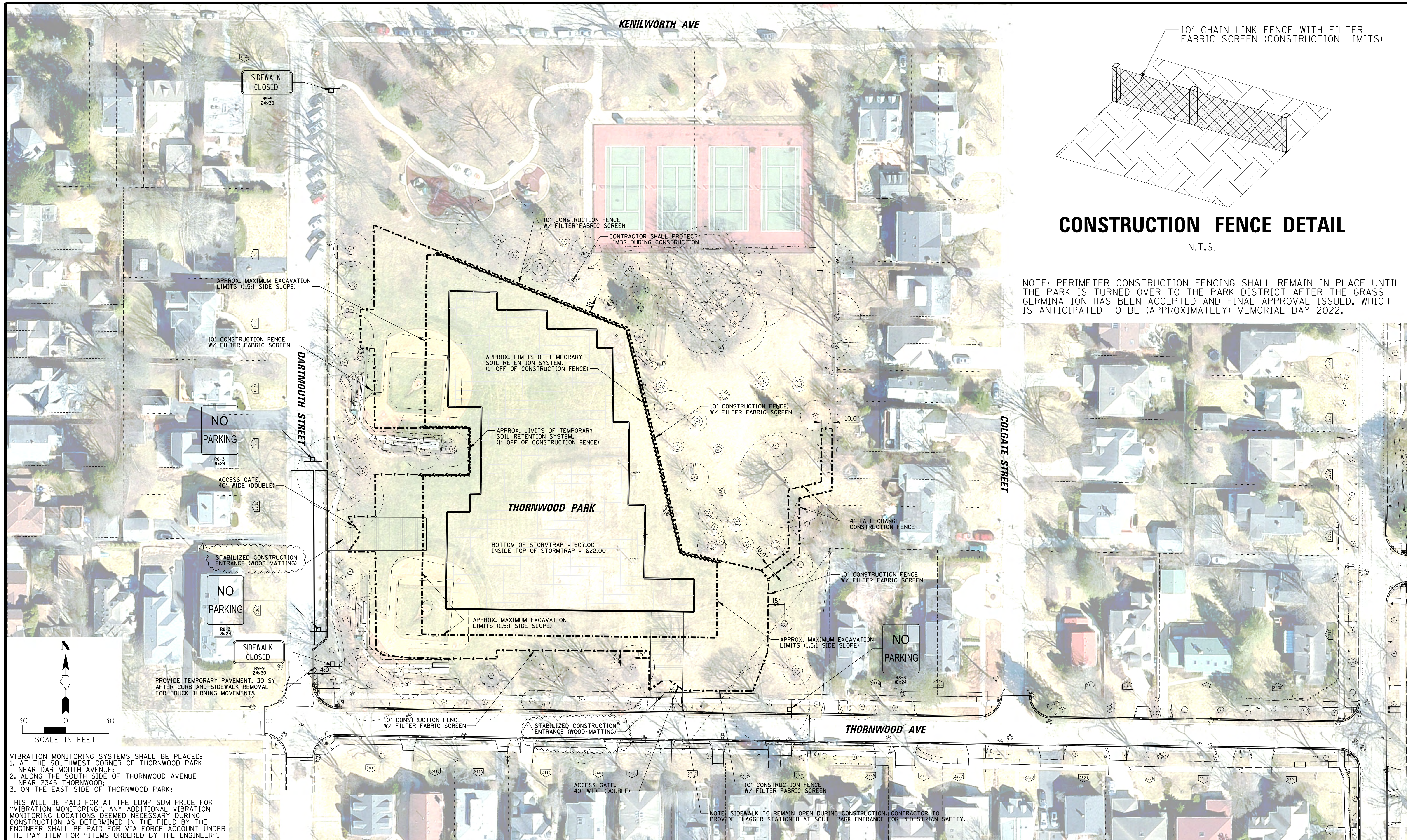
**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	CHKD.	MODEL:
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CHKD.	DC
SCALE:	
PLOT DATE:	10/8/2021
CAD USER:	mkoonce
CHKD.	Default

TITLE: **WSNSP CONTRACT #3  
 THORNWOOD PARK  
 LANDSCAPING PLAN**

PROJ. NO.	180245.0004
DATE:	10/8/2021
SHEET	134 OF 207
DRAWING NO.	<b>134</b>



**CONSTRUCTION FENCE DETAIL**

N.T.S.

NOTE: PERIMETER CONSTRUCTION FENCING SHALL REMAIN IN PLACE UNTIL THE PARK IS TURNED OVER TO THE PARK DISTRICT AFTER THE GRASS GERMINATION HAS BEEN ACCEPTED AND FINAL APPROVAL ISSUED, WHICH IS ANTICIPATED TO BE (APPROXIMATELY) MEMORIAL DAY 2022.

- VIBRATION MONITORING SYSTEMS SHALL BE PLACED:
1. AT THE SOUTHWEST CORNER OF THORNWOOD PARK NEAR DARTMOUTH AVENUE;
  2. ALONG THE SOUTH SIDE OF THORNWOOD AVENUE NEAR 2345 THORNWOOD;
  3. ON THE EAST SIDE OF THORNWOOD PARK;

THIS WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "VIBRATION MONITORING". ANY ADDITIONAL VIBRATION MONITORING LOCATIONS DEEMED NECESSARY DURING CONSTRUCTION AS DETERMINED IN THE FIELD BY THE ENGINEER SHALL BE PAID FOR VIA FORCE ACCOUNT UNDER THE PAY ITEM FOR "ITEMS ORDERED BY THE ENGINEER".

NOTE: SIDEWALK TO REMAIN OPEN DURING CONSTRUCTION. CONTRACTOR TO PROVIDE FLAGGER STATIONED AT SOUTH PARK ENTRANCE FOR PEDESTRIAN SAFETY.

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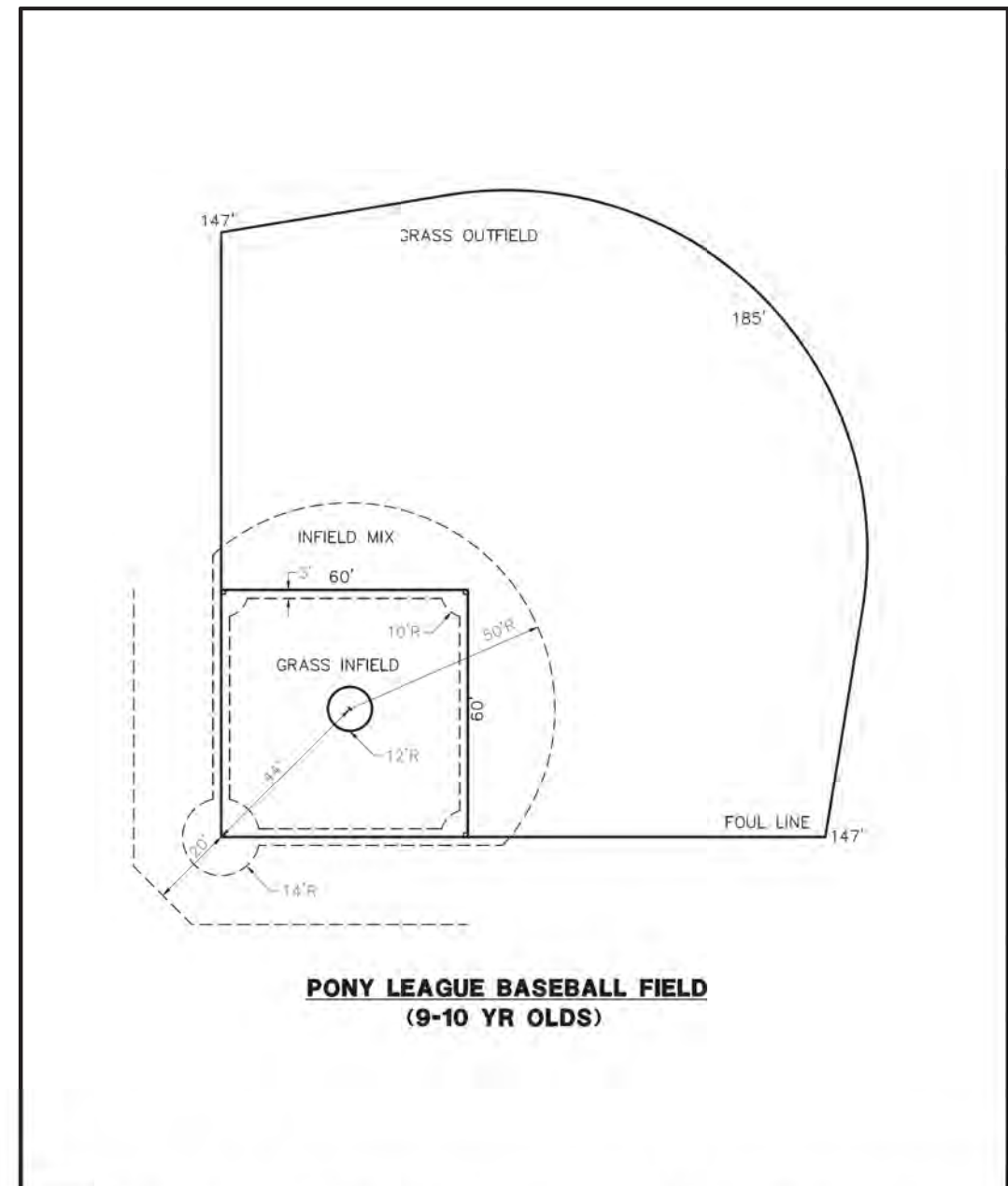
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

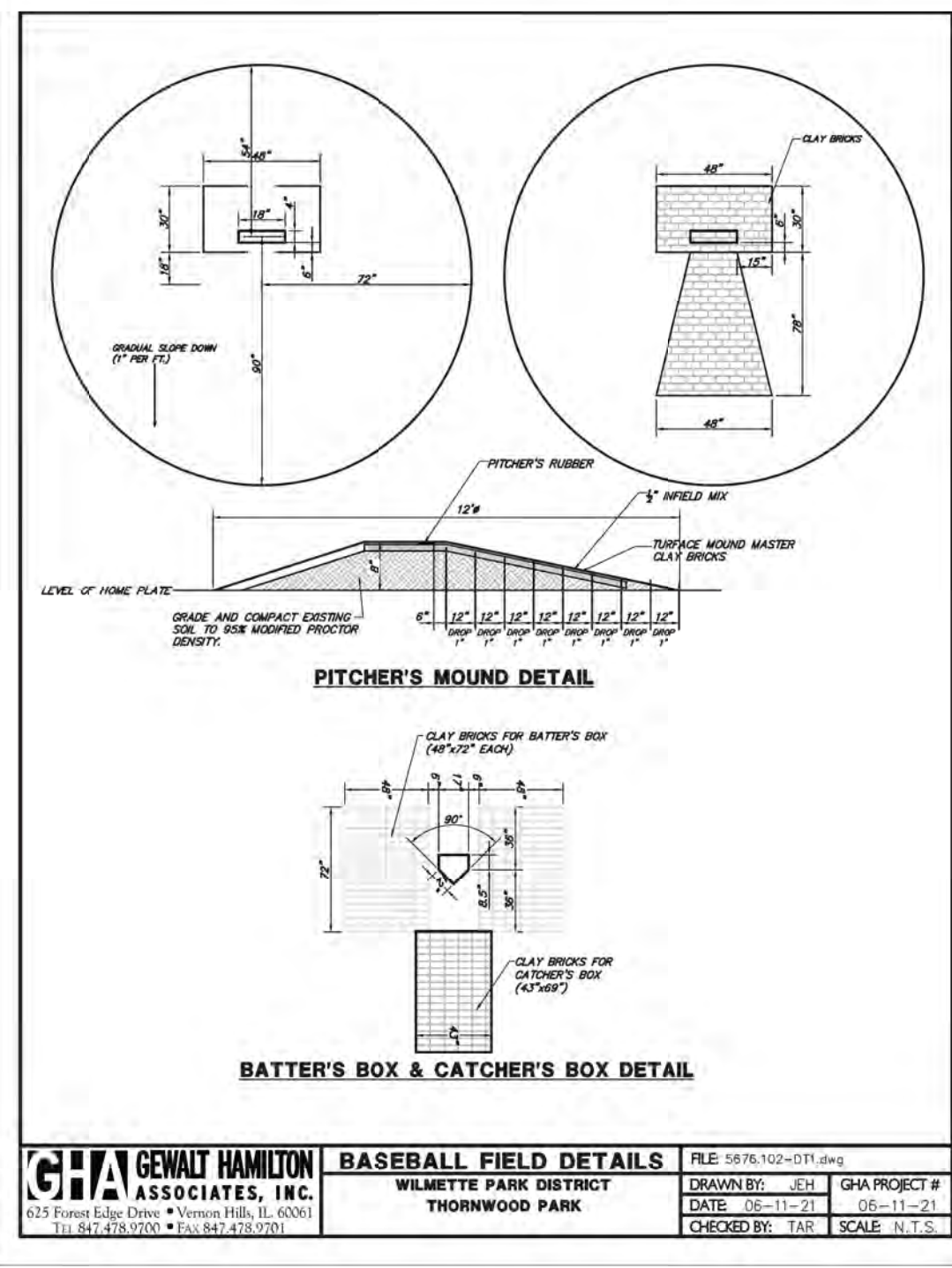
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 THORNWOOD PARK  
 CONSTRUCTION ACCESS & FENCE PLAN**

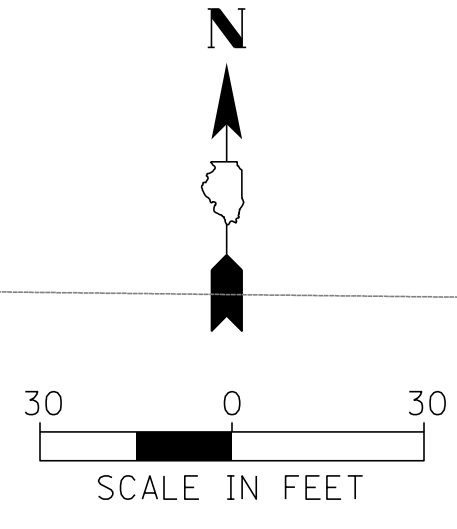
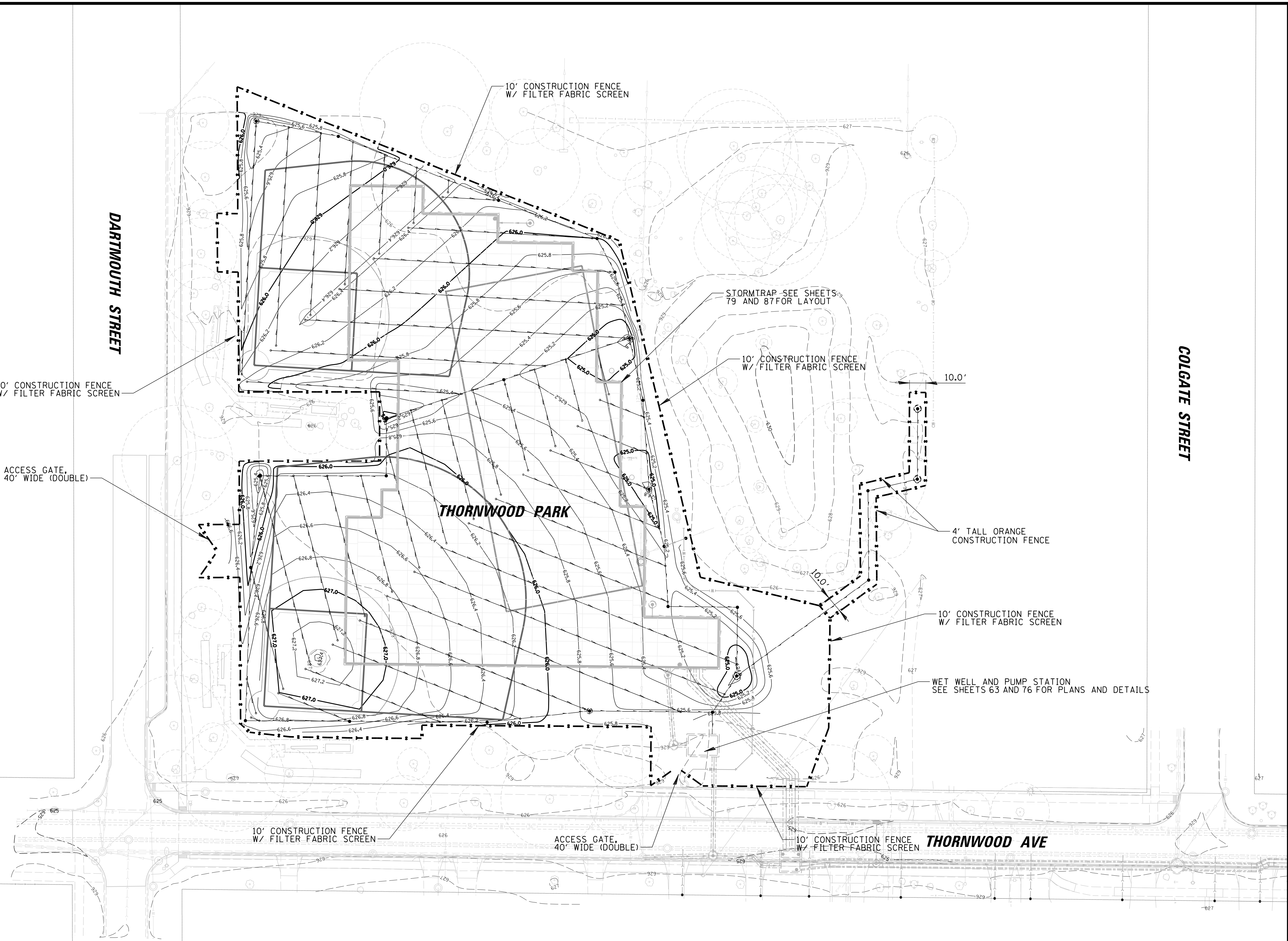
PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 135 OF 207  
 DRAWING NO. **135**



<b>GHA GEWALT HAMILTON ASSOCIATES, INC.</b> 635 Forest Edge Drive • Vernon Hills, IL 60061 Tel: 847.478.0700 • Fax: 847.478.0701	<b>BASEBALL FIELD DETAILS</b>		FILE: 180245-01.dwg
	WILMETTE PARK DISTRICT THORNWOOD PARK		DRAWN BY: JEM
			DATE: 08-11-21
			CHECKED BY: TAD



<b>GHA GEWALT HAMILTON ASSOCIATES, INC.</b> 635 Forest Edge Drive • Vernon Hills, IL 60061 Tel: 847.478.0700 • Fax: 847.478.0701	<b>BASEBALL FIELD DETAILS</b>		FILE: 180245-01.dwg
	WILMETTE PARK DISTRICT THORNWOOD PARK		DRAWN BY: JEM
			DATE: 08-11-21
			CHECKED BY: TAD



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**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

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TITLE: **WSNSP CONTRACT #3 THORNWOOD PARK PROPOSED GRADING PLAN**

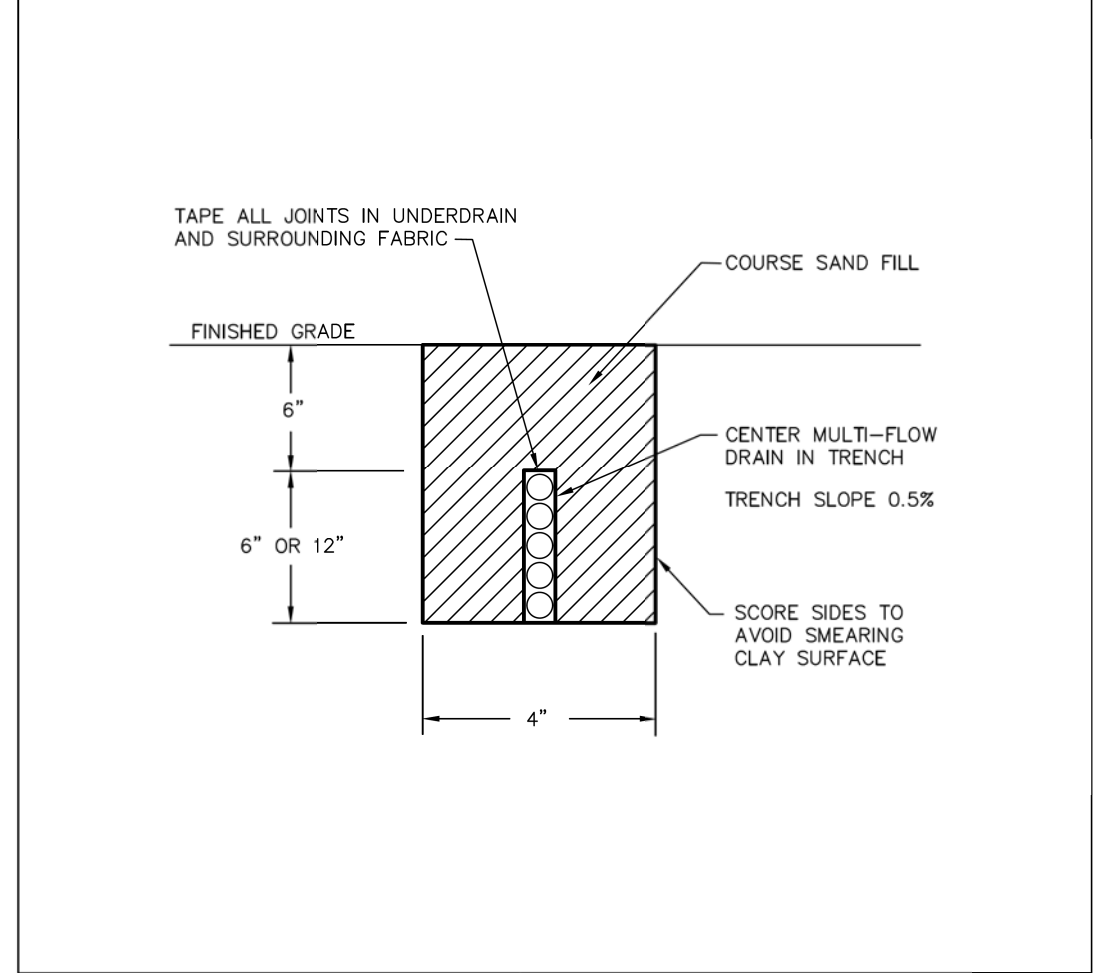
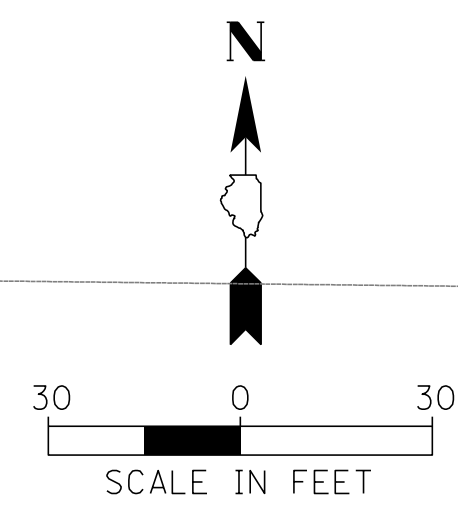
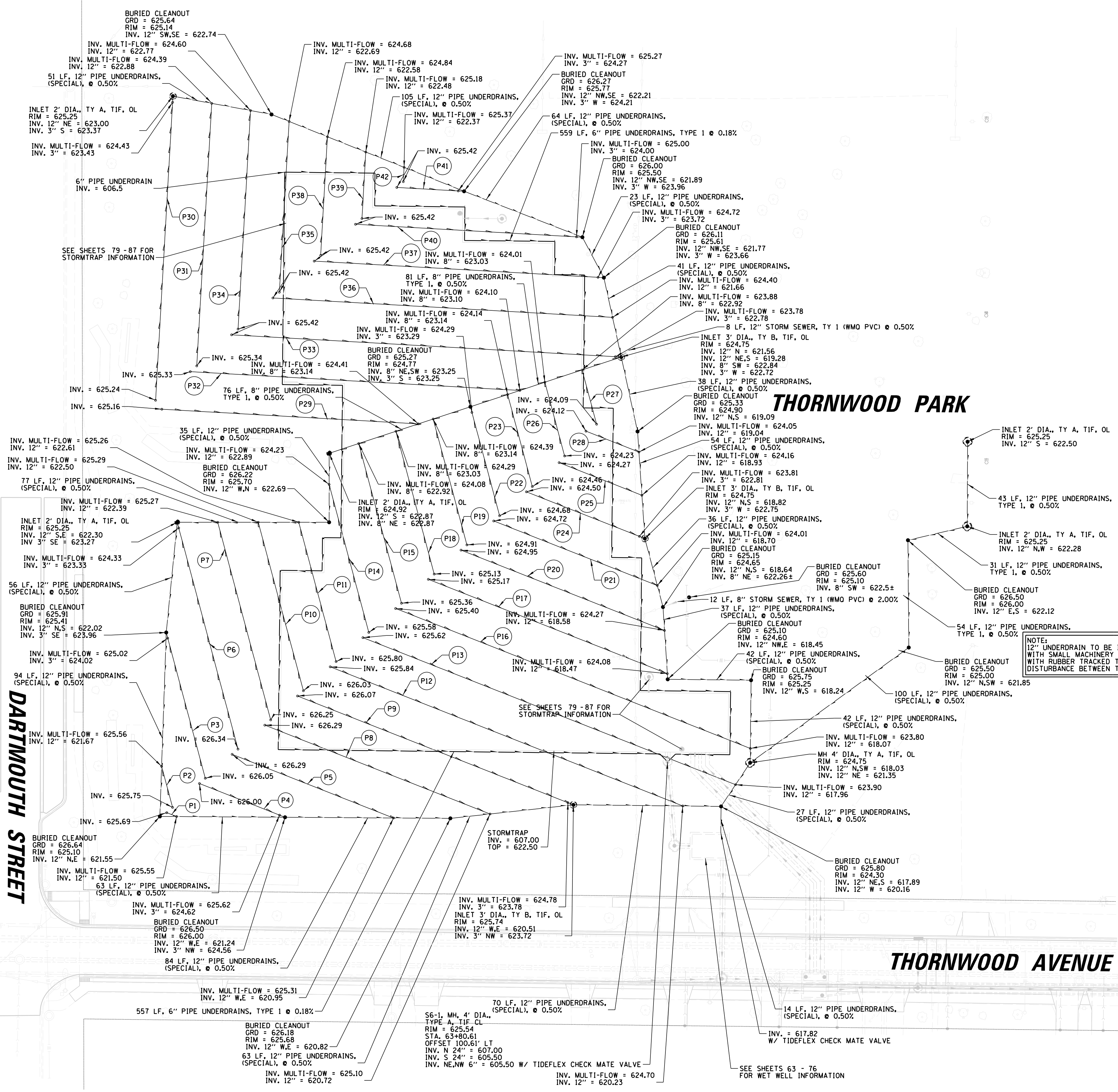
PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 136 OF 207  
 DRAWING NO. **136**



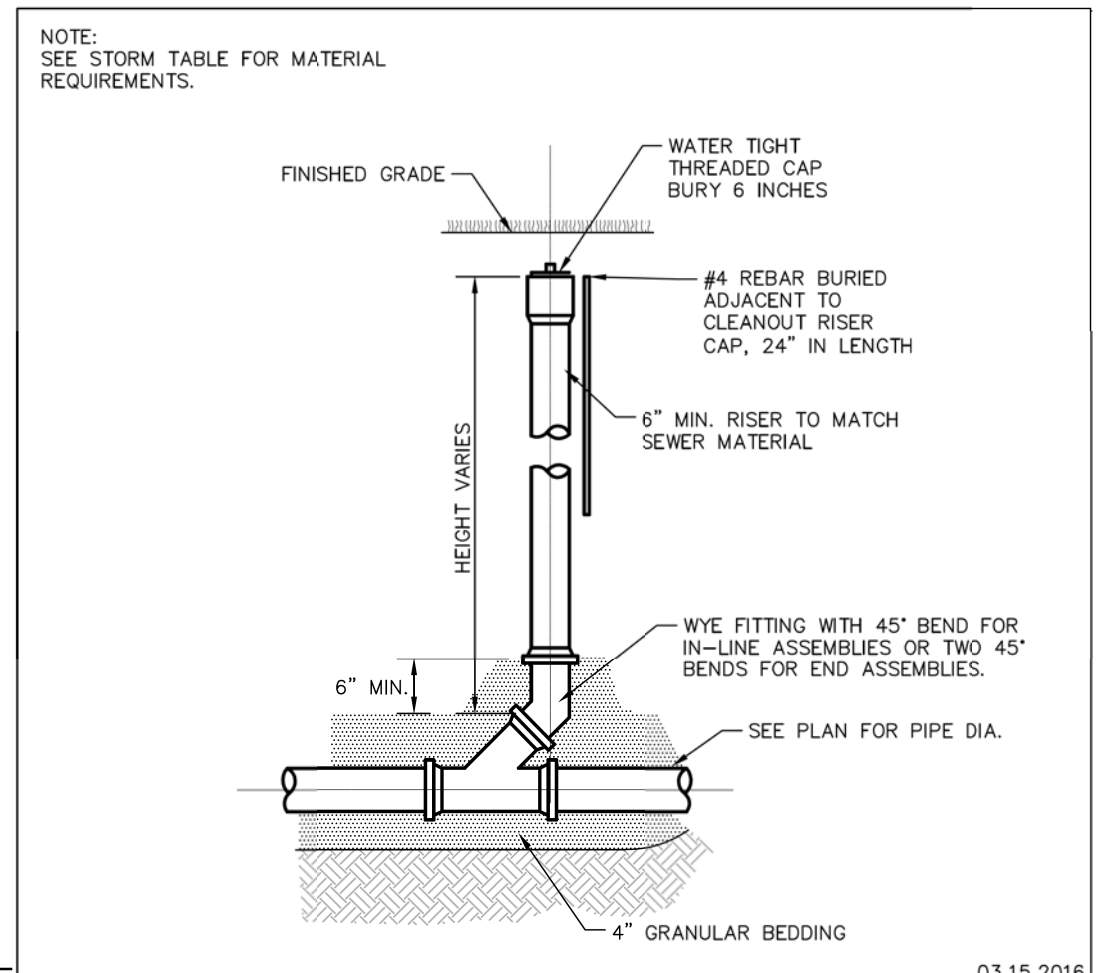
P1 - 5 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 2.80%
P2 - 21 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.90%
P3 - 74 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 1.39%
P4 - 44 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.86%
P5 - 88 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 1.11%
P6 - 117 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 1.72%
P7 - 104 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.94%
P8 - 123 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.97%
P9 - 148 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.87%
P10 - 189 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.83%
P11 - 73 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.74%
P12 - 193 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.59%
P13 - 202 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.85%
P14 - 78 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 1.73%
P15 - 84 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 1.52%
P16 - 194 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.82%
P17 - 136 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.80%
P18 - 75 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 1.12%
P19 - 66 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.79%
P20 - 114 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.60%
P21 - 89 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.80%
P22 - 54 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.72%
P23 - 48 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.67%
P24 - 62 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 1.11%
P25 - 45 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.24%
P26 - 39 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.56%
P27 - 28 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.75%
P28 - 29 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.24%
P29 - 131 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.57%
P30 - 152 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.53%
P31 - 134 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.71%
P32 - 168 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.71%
P33 - 196 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.84%
P34 - 111 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.74%
P35 - 87 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.85%
P36 - 173 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.59%
P37 - 148 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.47%
P38 - 57 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 1.02%
P39 - 34 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.71%
P40 - 113 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.37%
P41 - 31 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.48%
P42 - 7 LF, 6" MULTI-FLOW PIPE UNDERDRAINS @ 0.71%

DARTMOUTH STREET

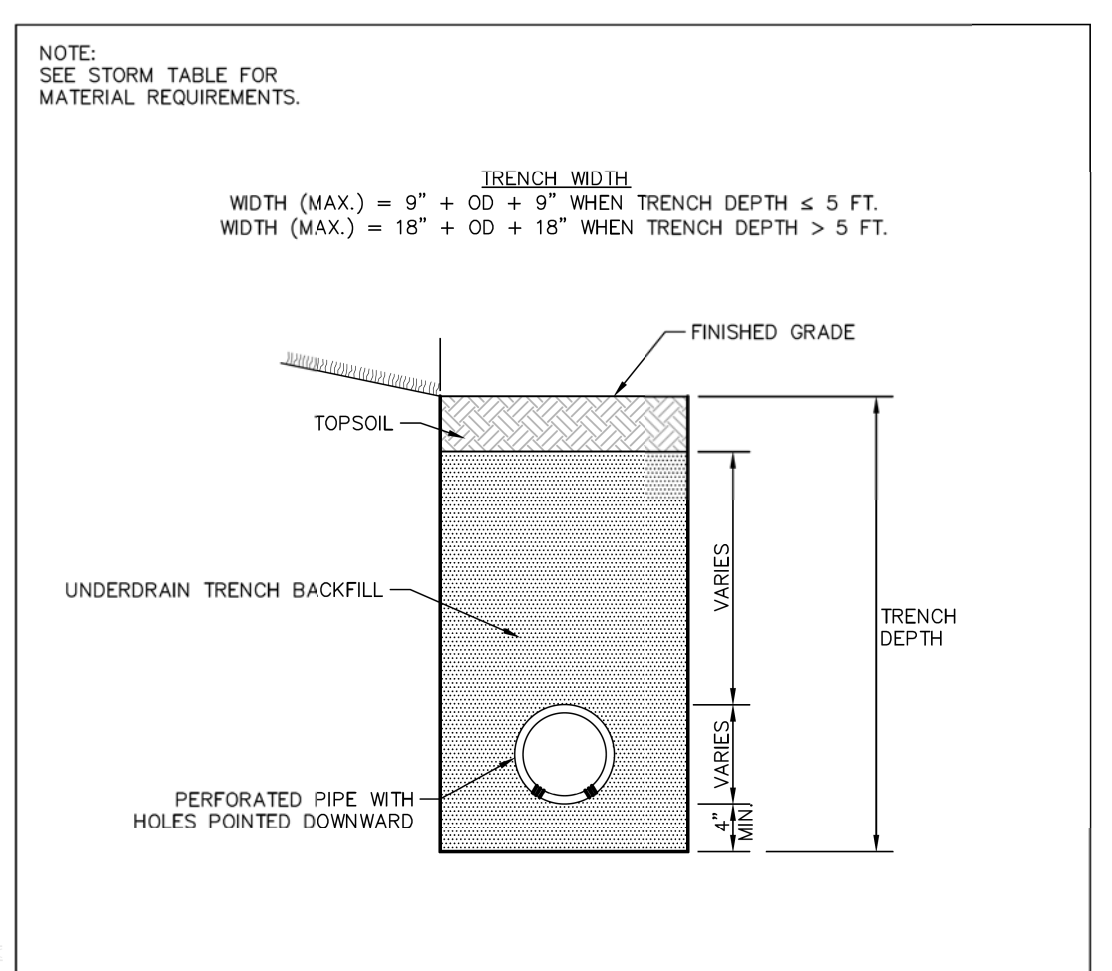
**THORNWOOD AVENUE**



**GEWALT HAMILTON ASSOCIATES, INC.**



**GEWALT HAMILTON ASSOCIATES, INC.**



**GEWALT HAMILTON ASSOCIATES, INC.**

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

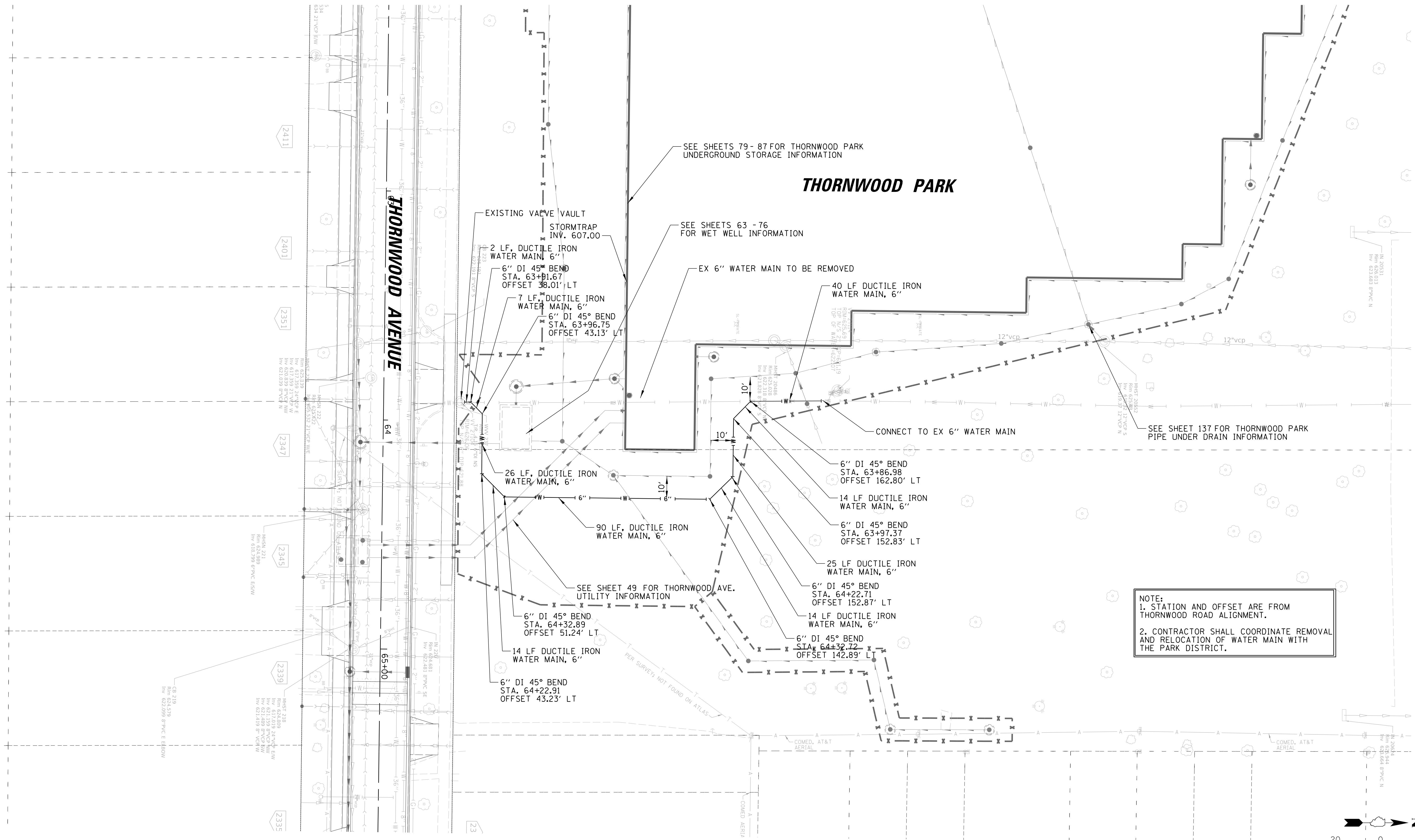
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

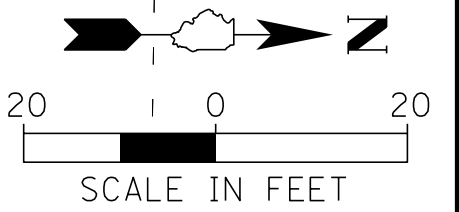
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1	7/28/21	REVISED PER MWRD COMMENTS	MAK	DeFault
FILE NAME		N:\wilmette\180245.00004\Civil\PD_C3.180245_01.sht		

TITLE: **WSNSP CONTRACT #3 THORNWOOD PARK PIPE UNDERDRAIN PLAN**

PROJECT NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 137 OF 207  
 DRAWING NO. **137**



NOTE:  
 1. STATION AND OFFSET ARE FROM THORNWOOD ROAD ALIGNMENT.  
 2. CONTRACTOR SHALL COORDINATE REMOVAL AND RELOCATION OF WATER MAIN WITH THE PARK DISTRICT.



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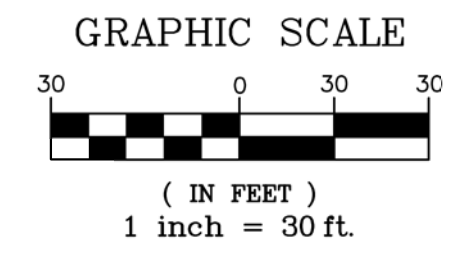


CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	REVISION	MAK	CHKD.
1	7/28/21	REVISED PER MWRD COMMENTS	MAK	
FILE NAME		N:\wilmette\180245.00004\Civil\PMW.C3_180245_01.sht		

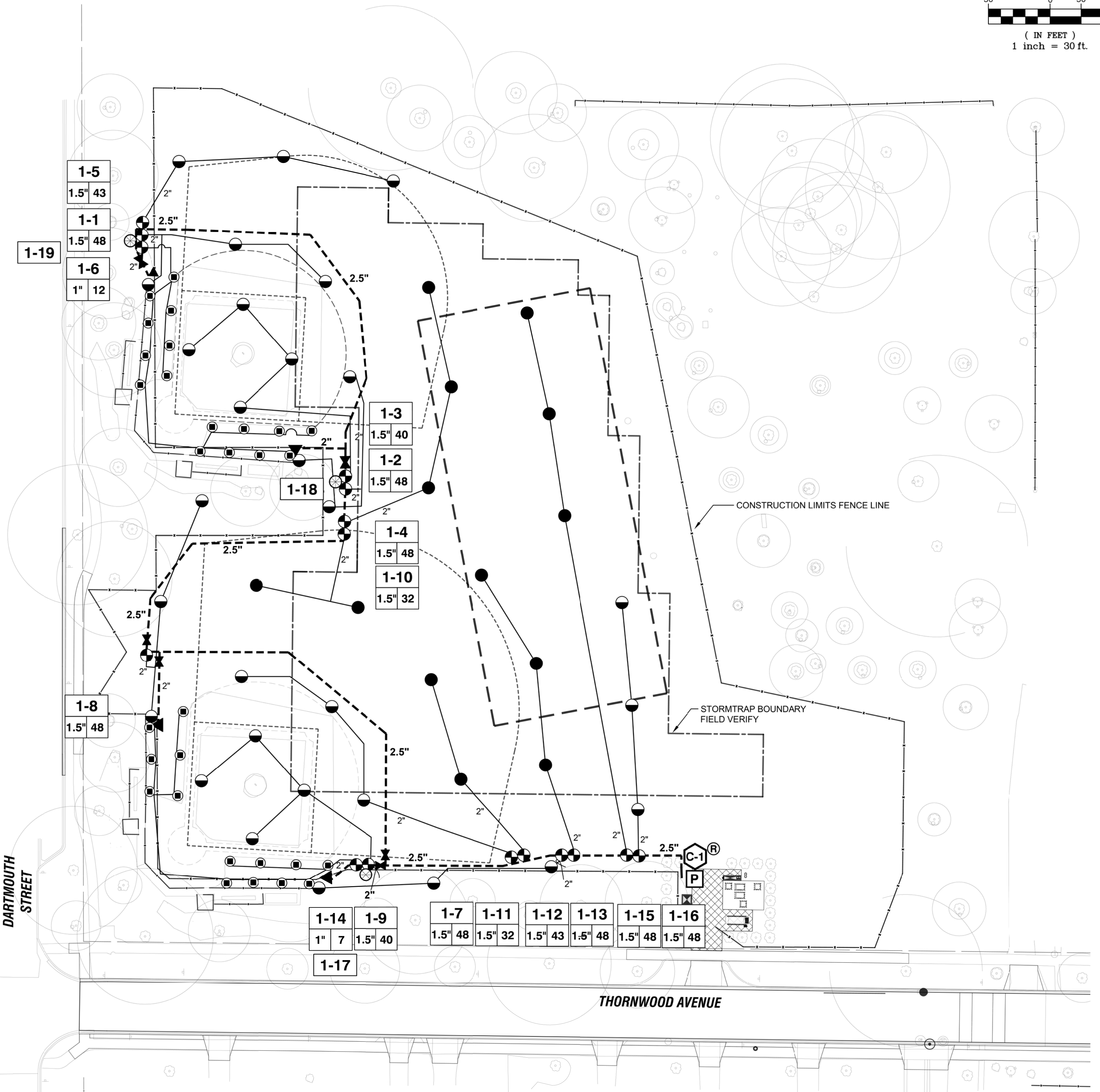
TITLE: **WSNSP CONTRACT #3 THORNWOOD PARK WATER MAIN RELOCATION PLAN**

PROJ. NO.	180245.0004
DATE:	10/8/2021
SHEET	138 OF 207
DRAWING NO.	138



- LEGEND**
- HUNTER I-40-04-SS -- 4" ROTOR -- PART CIRCLE  
#15 Nozzle ; 15.2 GPM at 60psi  
#8 Nozzle ; 9.2 GPM at 60psi (for in-field, part circles)
  - HUNTER I-40-04-SS-OP -- 4" ROTOR with OPPOSING NOZZLES - FULL CIRCLE  
#18 Nozzles ; 15.2 GPM at 60 psi
  - HUNTER PROS-06-PRS40-CV 6" SPRAY HEAD with HUNTER MP ROTATOR NOZZLE  
Part Circle - Nozzles Vary
  - ⊕ HUNTER PGV SERIES ELECTRIC VALVE - Size per Plan
  - ▼ LEEMCO L2QCV-FPT-P QUICK COUPLER VALVE with PURPLE CAP  
Provide Owner with Valve Keys and Hose Swivels --  
(2) L2QCV-KEY Keys; (2) L2QCV-SWIVEL-010 Hose Swivel.
  - ✂ ISOLATION GATE VALVE - Size to Pipe
  - CL 200 PVC Mainline Pipe - Size per Plan with 14-AWG TRACER WIRE, Purple in Color
  - CL 200 PVC Lateral Pipe - Size per Plan with 14-AWG TRACER WIRE, Red in Color
  - CL 200 PVC SLEEVE - Size per Plan
  - ▽ POC-1 2" POINT OF CONNECTION:  
Supply line brought to pump station by Civil Contractor; Location per plans.  
Refer to civil plans for reference locations.
  - P WATERTRONICS WATERMAX PULSE with RPZ  
Mount station on concrete slab. Refer to details for installation instructions.  
Civil Contractor responsible for bringing water and electrical service to pump station location.  
Irrigation Contractor responsible for pump station installation and final connections.
  - C-1 HUNTER INDUSTRIES IC2-800-SS with ICM-22 module STAINLESS-STEEL WALL MOUNT CONTROLLER  
Mount in pump enclosure. Install and ground per manufacturer's recommendations and details.  
24 volt wired system.  
Install Hunter Industries A2C-LTE Cell Modem in controller.  
Confirm AT&T or VZW service before ordering.  
110v power to be provided ; Irrigation Contractor to make final connections.  
Install Paige #250090LED Lightning Surge Arrester at controller.
  - R HUNTER INDUSTRIES WRF-CLK (Wireless Rain & Freeze) SENSOR  
Mount sensor in a Hunter Industries WS-GUARD sensor guard on the RPZ enclosure.  
Mount receiver in a Hunter Industries WR-GUARD receiver guard next to the controller.
  - ⊗ SPARE 24-volt SIGNAL WIRE DROP
  - 2" PIPE SIZE

4" / 2"sl Sleeve / Bore	Controller Number	Pulse Wire Color Code #14 AWG.:
Wire Sleeve Size	Station Number	Valve #
Pipe Sleeve Size	Valve Type	Red 1 15 9 13 17
	Valve Size	Blue 2 6 10 14 18
		Orange 3 7 11 15 19
		Brown 4 8 12 16 20
		White - Common #14 AWG
		Purple - Mainline Tracer, #14 AWG



- GENERAL IRRIGATION NOTES**
1. CONTACT ALL UTILITIES AND GENERAL CONTRACTOR AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
  2. MAINTAIN ALL CODES REQUIRED BY LOCAL AUTHORITIES.
  3. COORDINATE ELECTRICAL HOOKUP WITH GENERAL CONTRACTOR, ELECTRICIAN AND OWNER.
  4. COORDINATE ALL SLEEVES AND PENETRATIONS WITH GENERAL CONTRACTOR IRRIGATION CONTRACTOR IS RESPONSIBLE FOR BORES, SLEEVES OR PENETRATIONS RELATED TO THE IRRIGATION.
  5. IRRIGATION HEADS AND LINES ARE SCHEMATIC - FIELD ADJUSTMENTS MAY BE REQUIRED.
  6. CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT DEBRIS IN THE LINE.
  7. INSTALL ALL PIPING AND FITTINGS USING GLUE METHODS CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS.
  8. MAINLINE PIPING SHALL BE INSTALLED AT MINIMUM OF 18" TO THE TOP OF PIPE. LATERAL LINES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18" TO THE TOP OF PIPE.
  9. THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS.
  10. INSTALL WIRES A MIN. OF 8" BELOW GRADE.
    - SPLICES ARE NOT ALLOWED IN THE TRENCH.
    - PROVIDE A 24" EXPANSION LOOP AT EACH CHANGE IN DIRECTION.
    - 5 FEET OF EXCESS DECODER WIRE IS TO BE AT EACH DECODER LOCATION FOR EASE OF ACCESS.
  11. THE IRRIGATION SYSTEM SHALL BE TESTED AT OPERATING PRESSURE FOR A MINIMUM OF 4 HOURS. REPAIR ALL LEAKS AND RETEST AFTER CURING.
  12. UPON COMPLETION OF TEST, COMPLETE ASSEMBLY OF ALL EQUIPMENT AND SPRINKLERS FOR PROPER DISTRIBUTION.
  13. PROVIDE 'AS BUILT' DRAWINGS SHOWING ALL COMPONENTS OF THE SYSTEM PRIOR TO FINAL PAYMENT. PROVIDE FINAL GPM OF ZONES, WIRE RUNS, HEADS, VALVES, PIPE SIZES ETC...
  14. SLEEVE UNDER ROAD, WALLS, PAVERS, AND DRIVES
    - SLEEVE WIRE AND PIPING SEPARATELY, SEE PLAN FOR SIZING
    - ALL WIRING TO BE SLEEVED IN A MINIMUM 1" SLEEVE
    - ALL SLEEVEING TO BE SDR-21 PVC CLASS 200
  15. ALL BIDDERS SHALL VISIT AND REVIEW THE SITE AND FAMILIAR THEMSELVES WITH THE SITE THE SITE PRIOR TO SUBMITTING A BID.
  16. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND ACQUIRING ALL PERMITS.
  17. PRESSURE READINGS WERE PROVIDED BY OTHERS. IF THE STATIC PSI IS NOT 72psi BEFORE THE RPZ, NOTIFY OWNER'S REPRESENTATIVE.

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

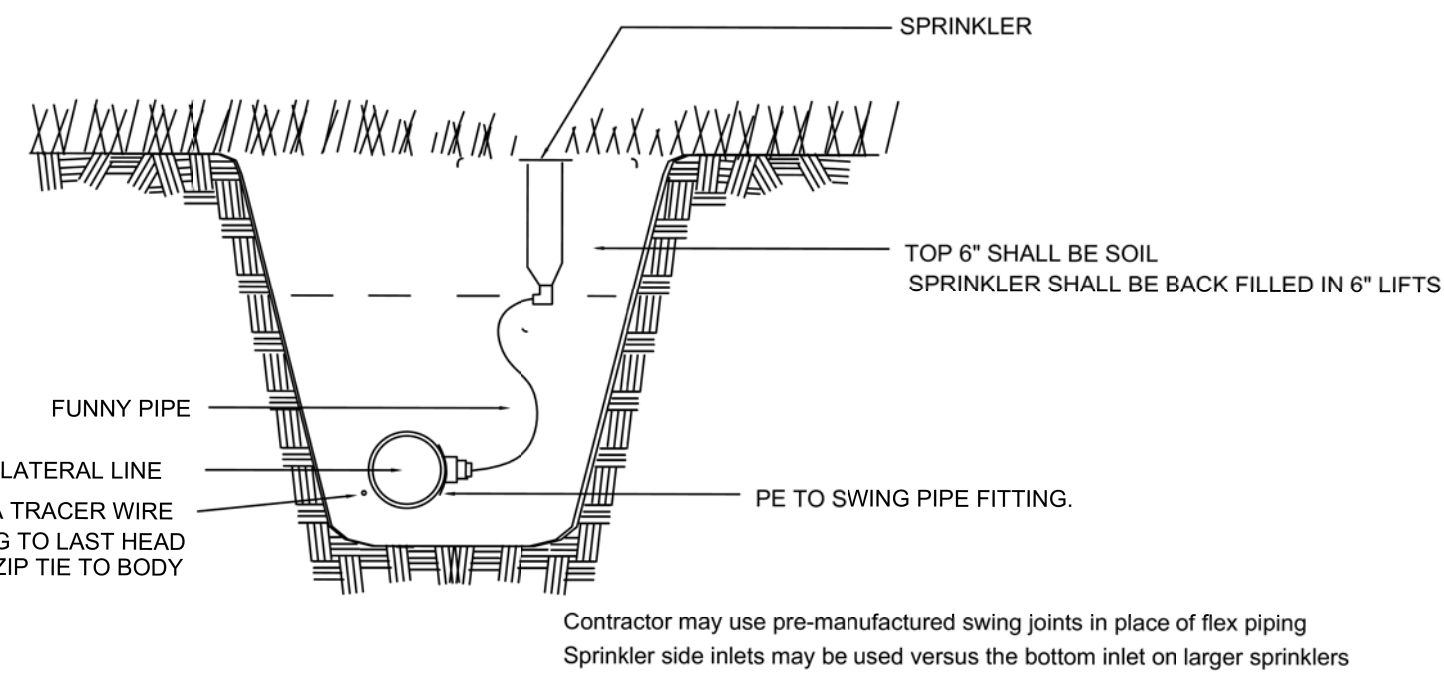
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

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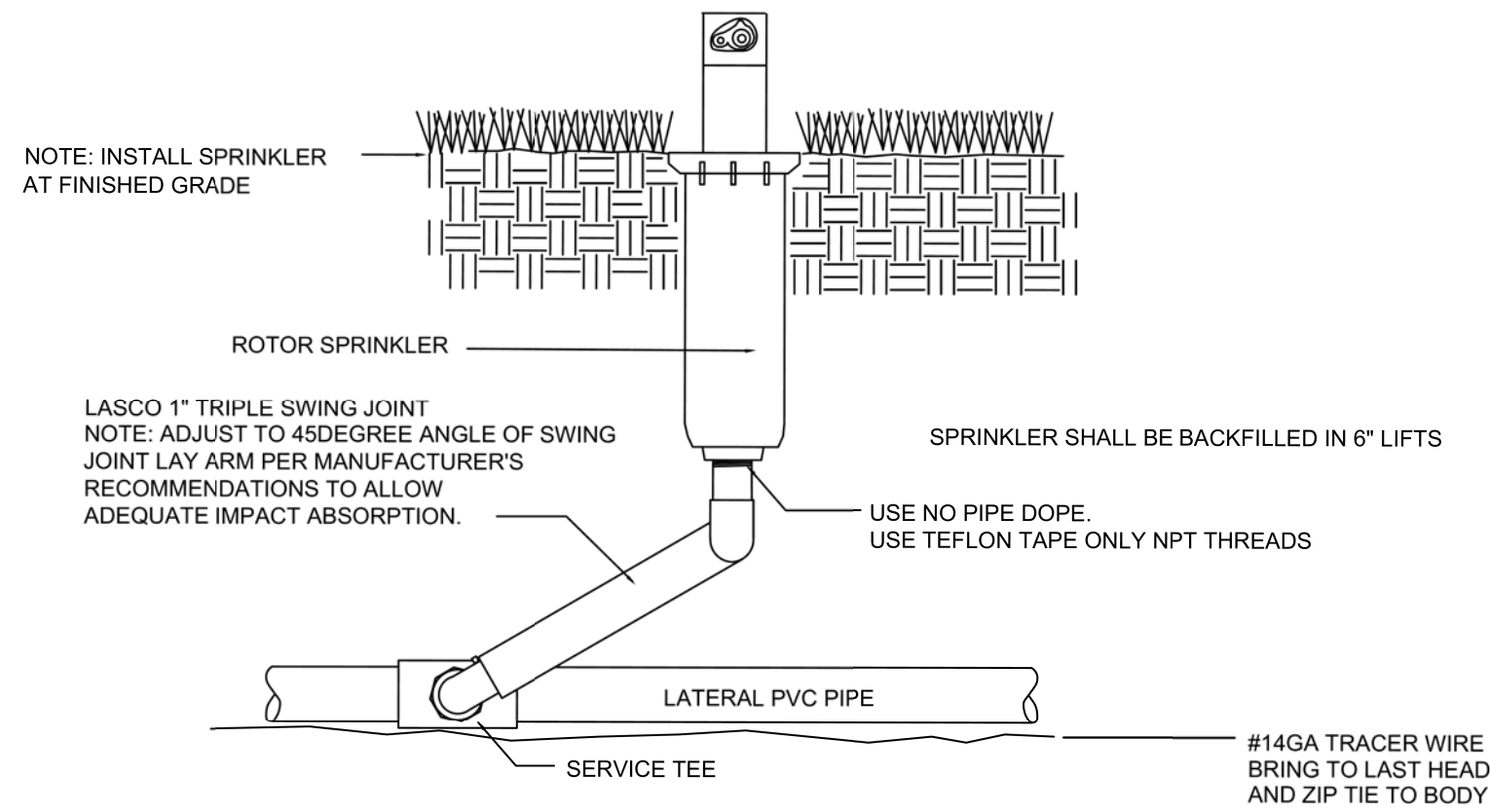
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 THORNWOOD PARK  
 IRRIGATION PLAN - OVERALL**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 139 OF 207  
 DRAWING NO. **139**



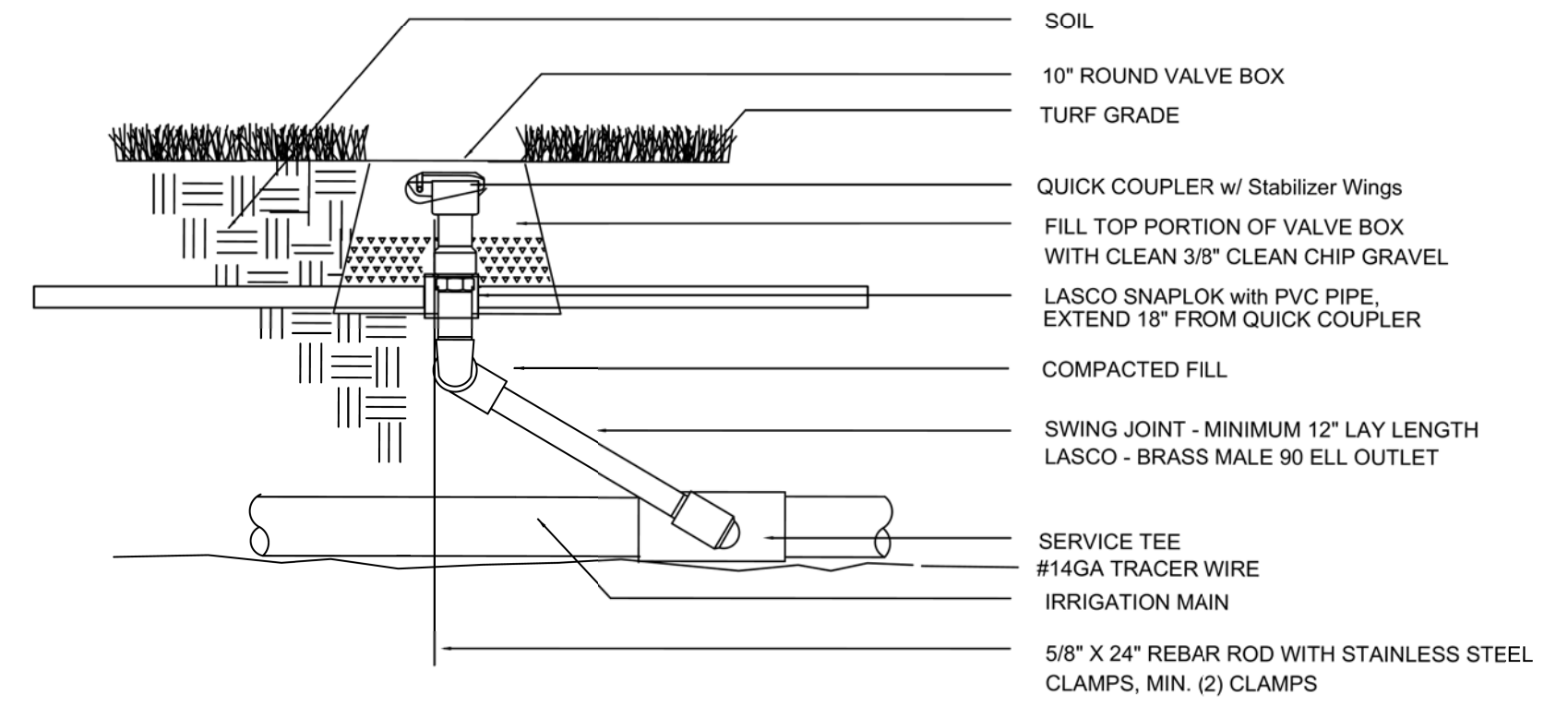
1 6" SPRAY HEAD

NO SCALE



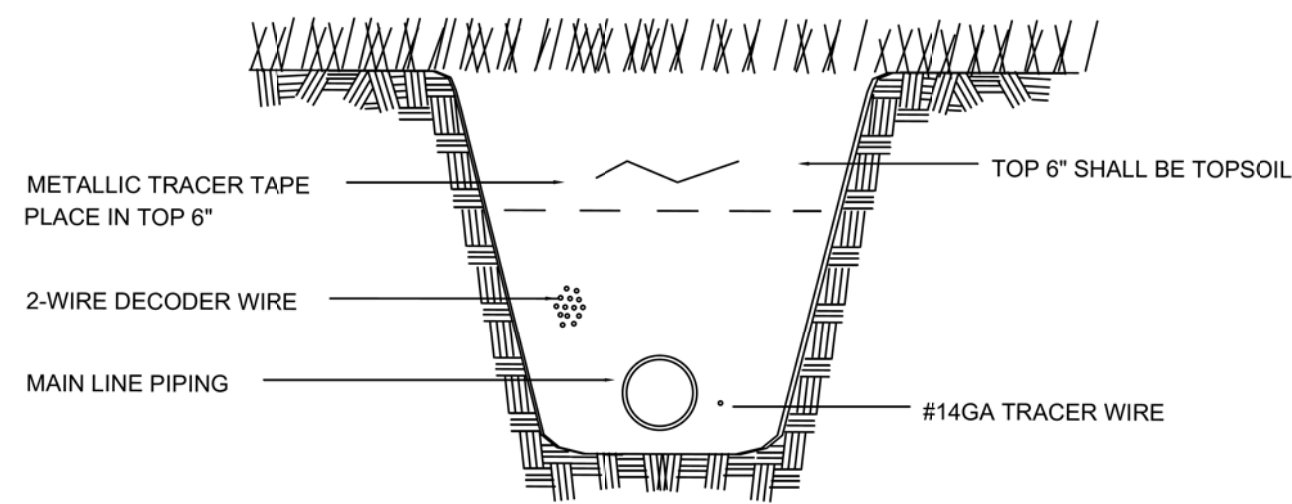
2 I-40 ROTOR HEAD

NO SCALE



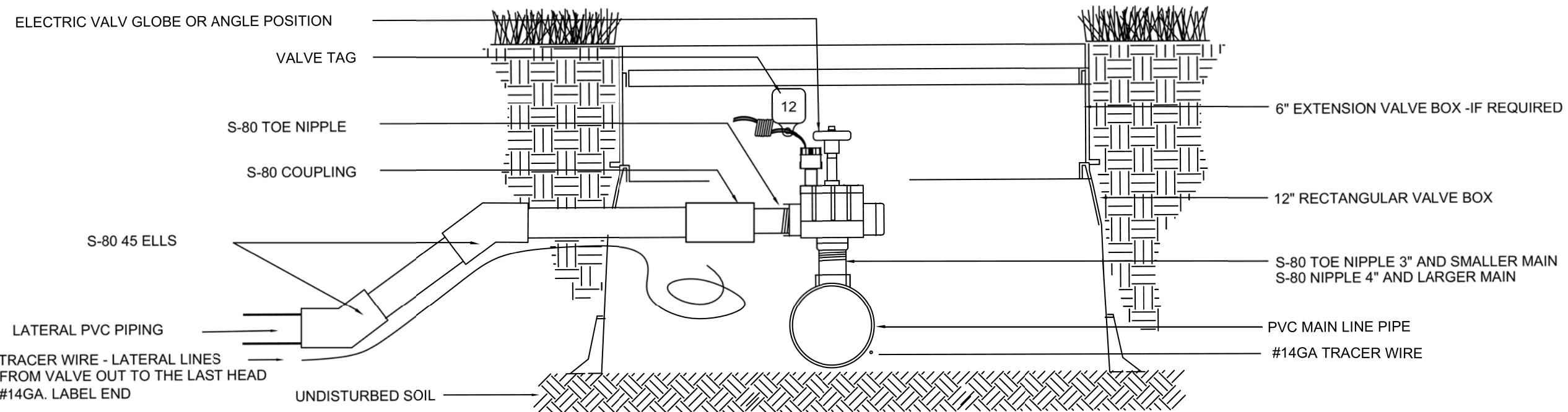
3 QUICK COUPLER VALVE

NO SCALE



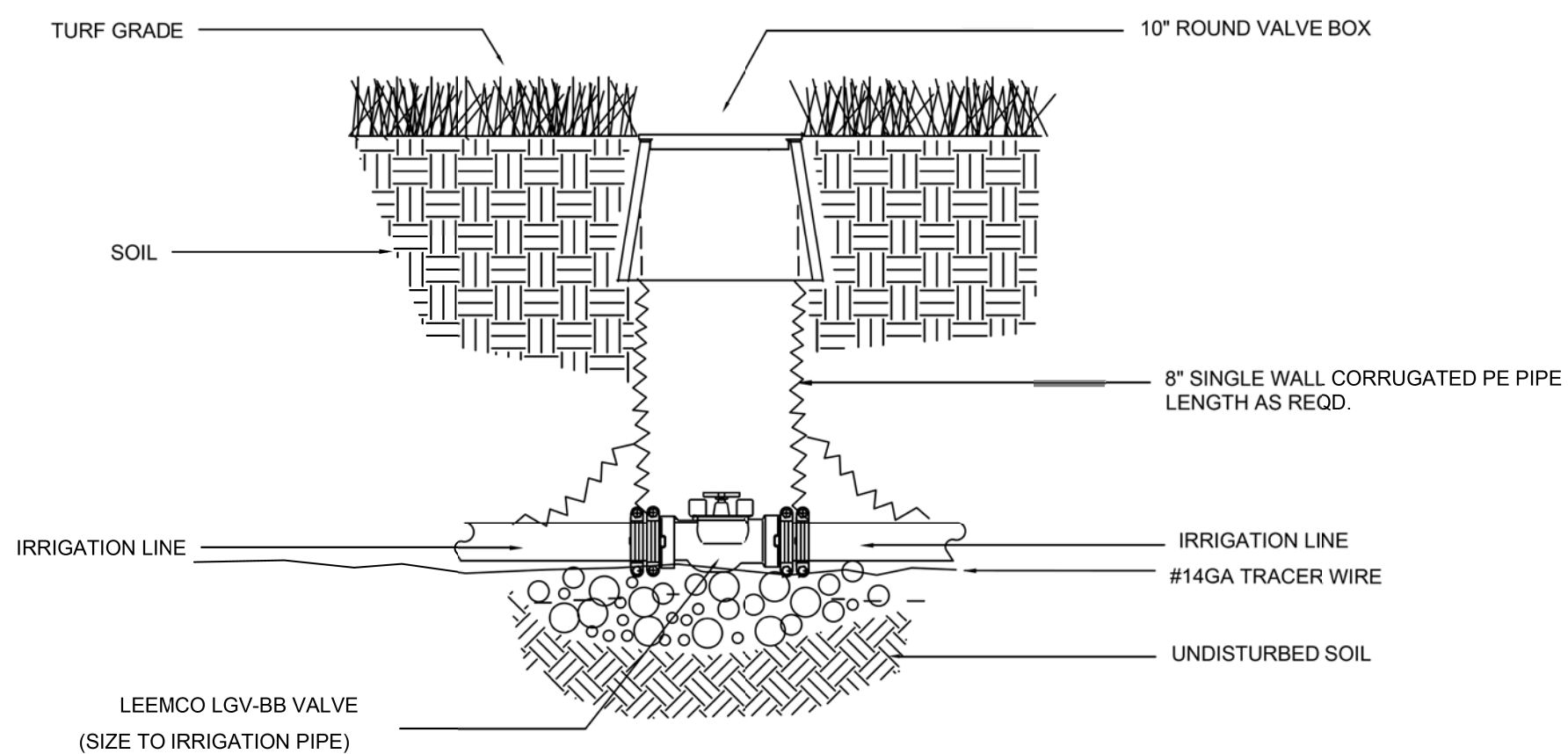
4 WIRE TRENCH

NO SCALE



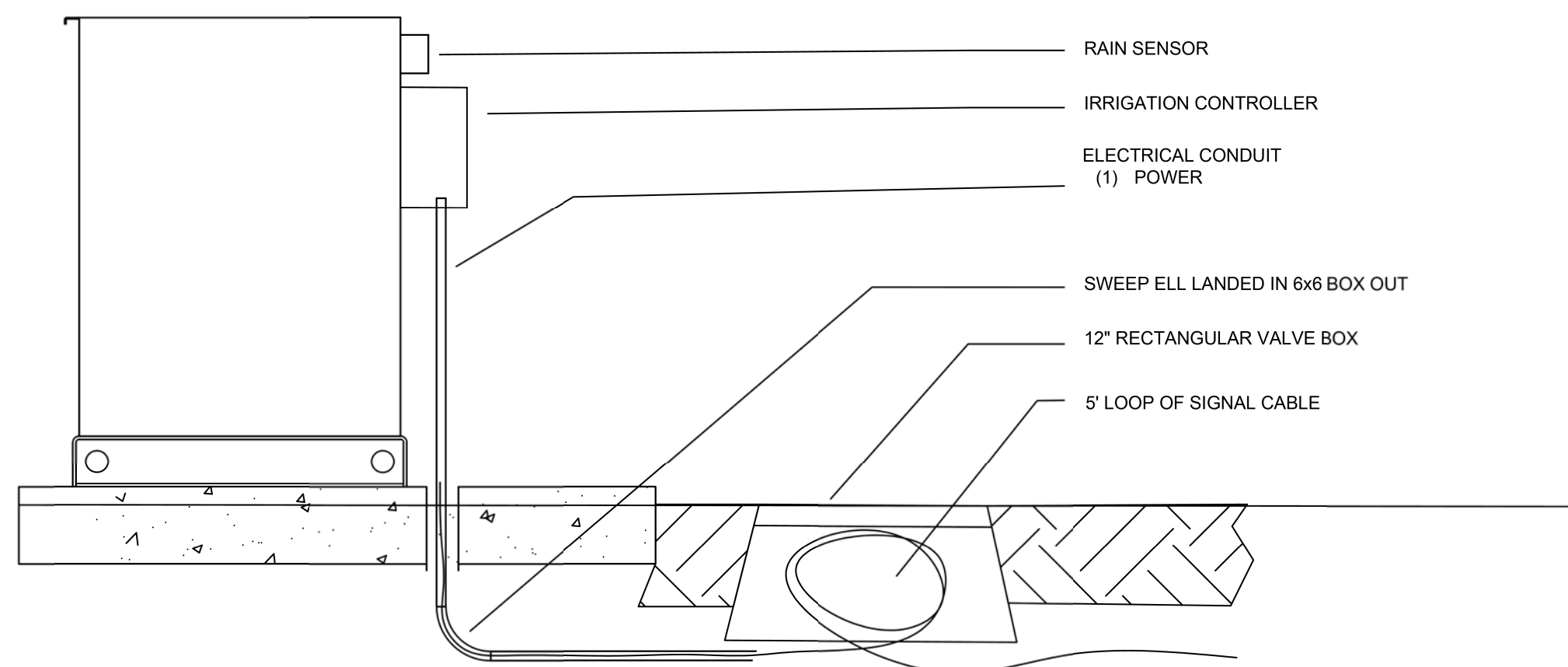
5 ELECTRIC VALVE / LATERAL CONNECTION

NO SCALE



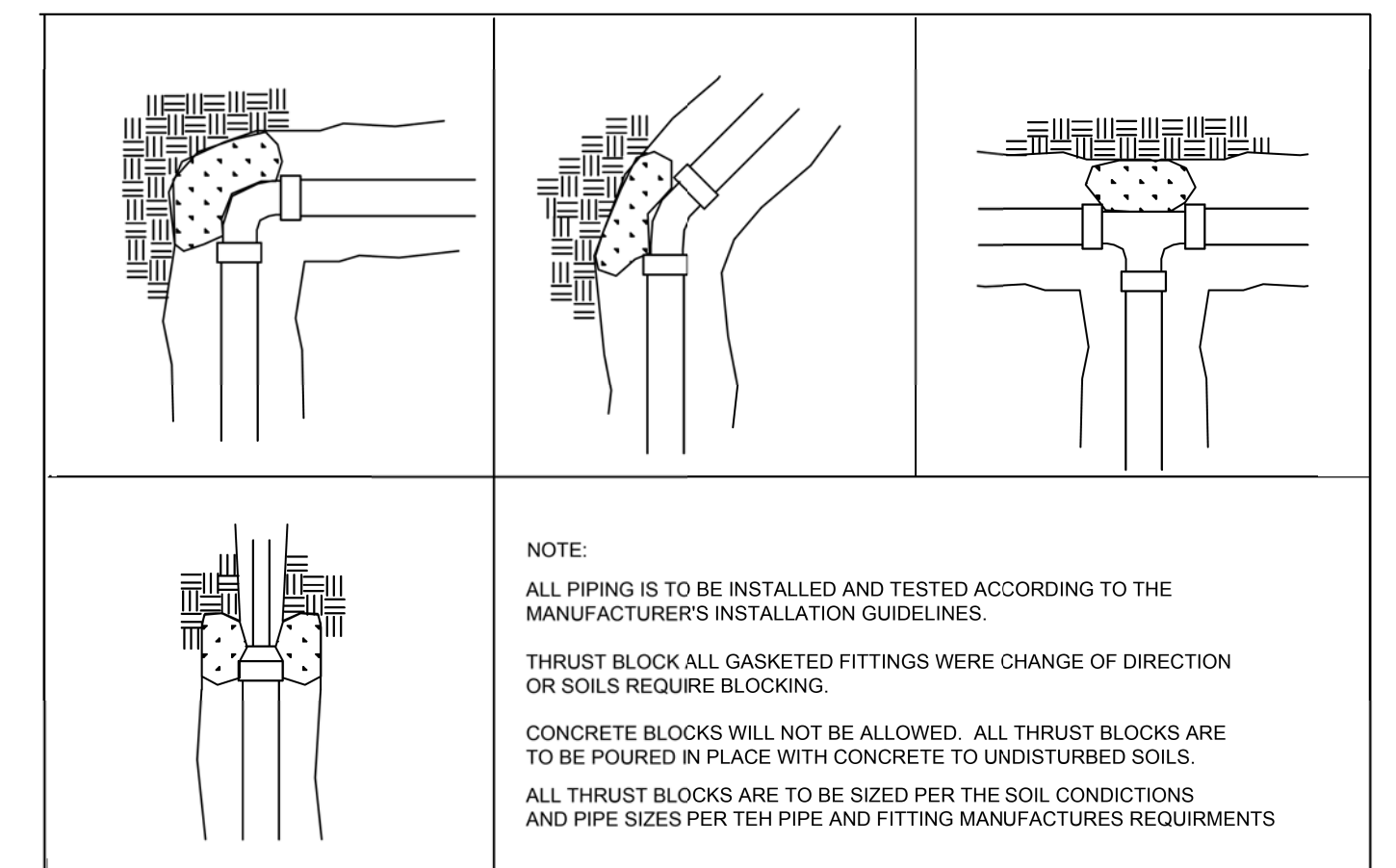
6 2" / 2.5" / 3" ISOLATION VALVE

NO SCALE



7 CONTROLLER MOUNT

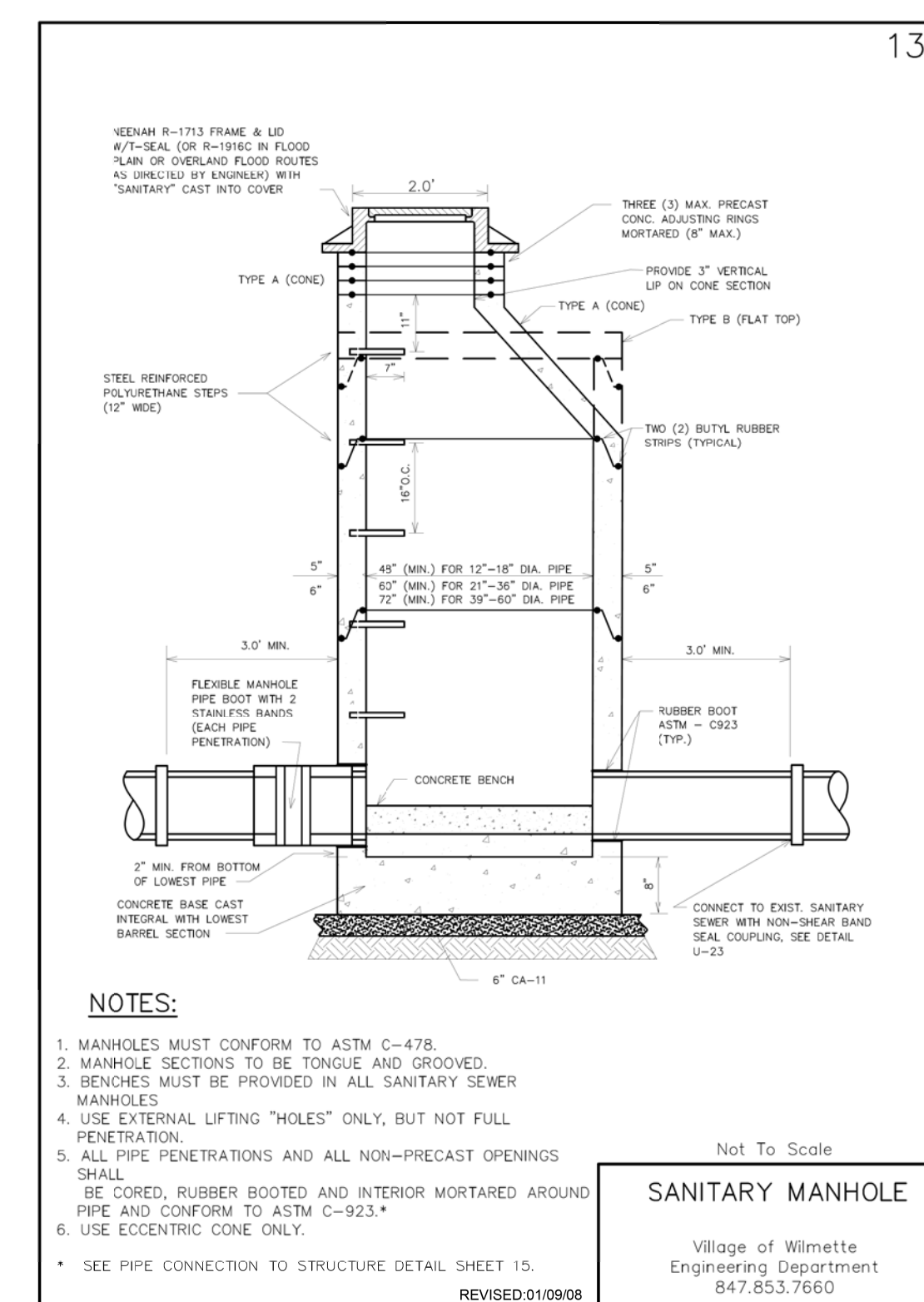
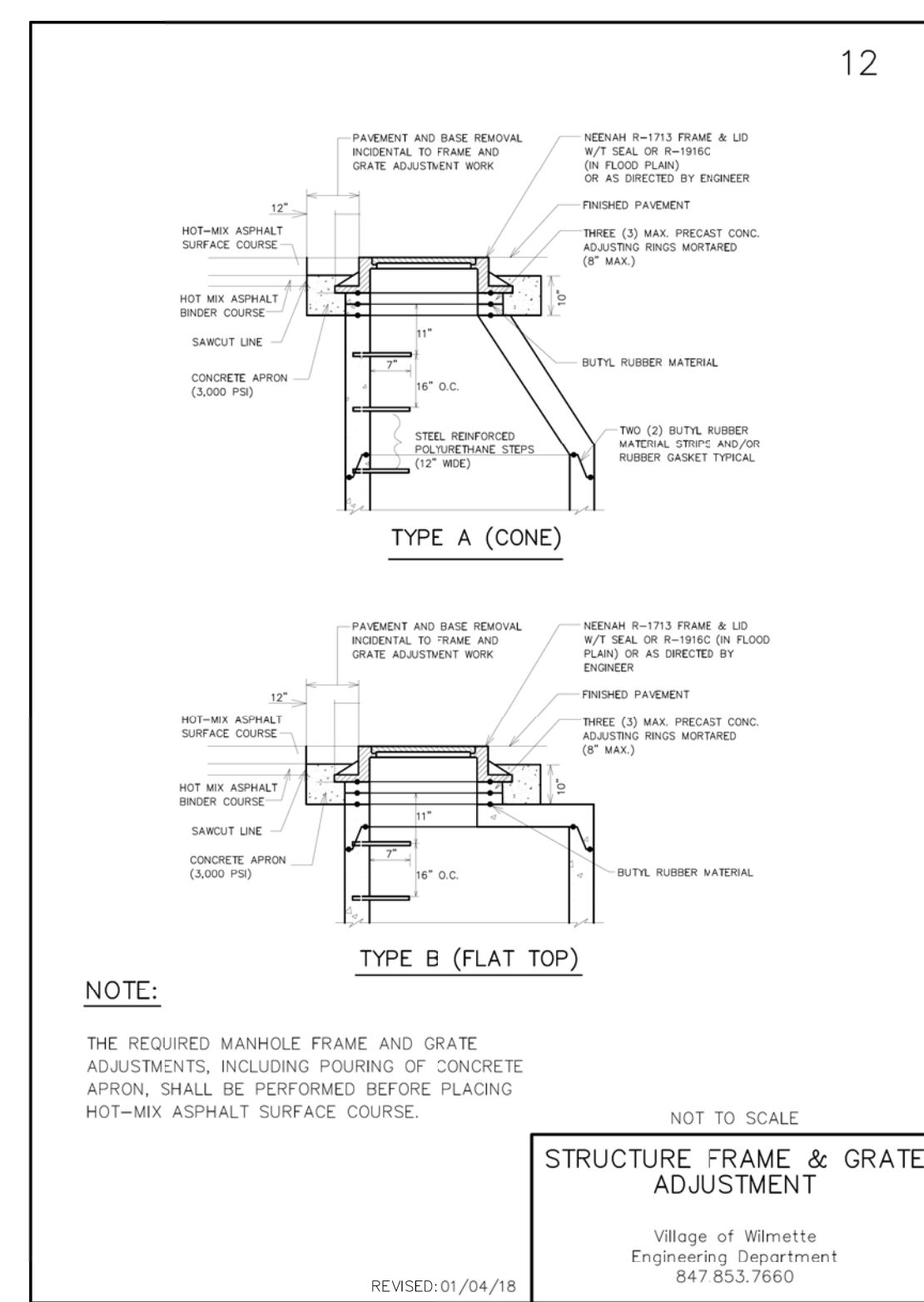
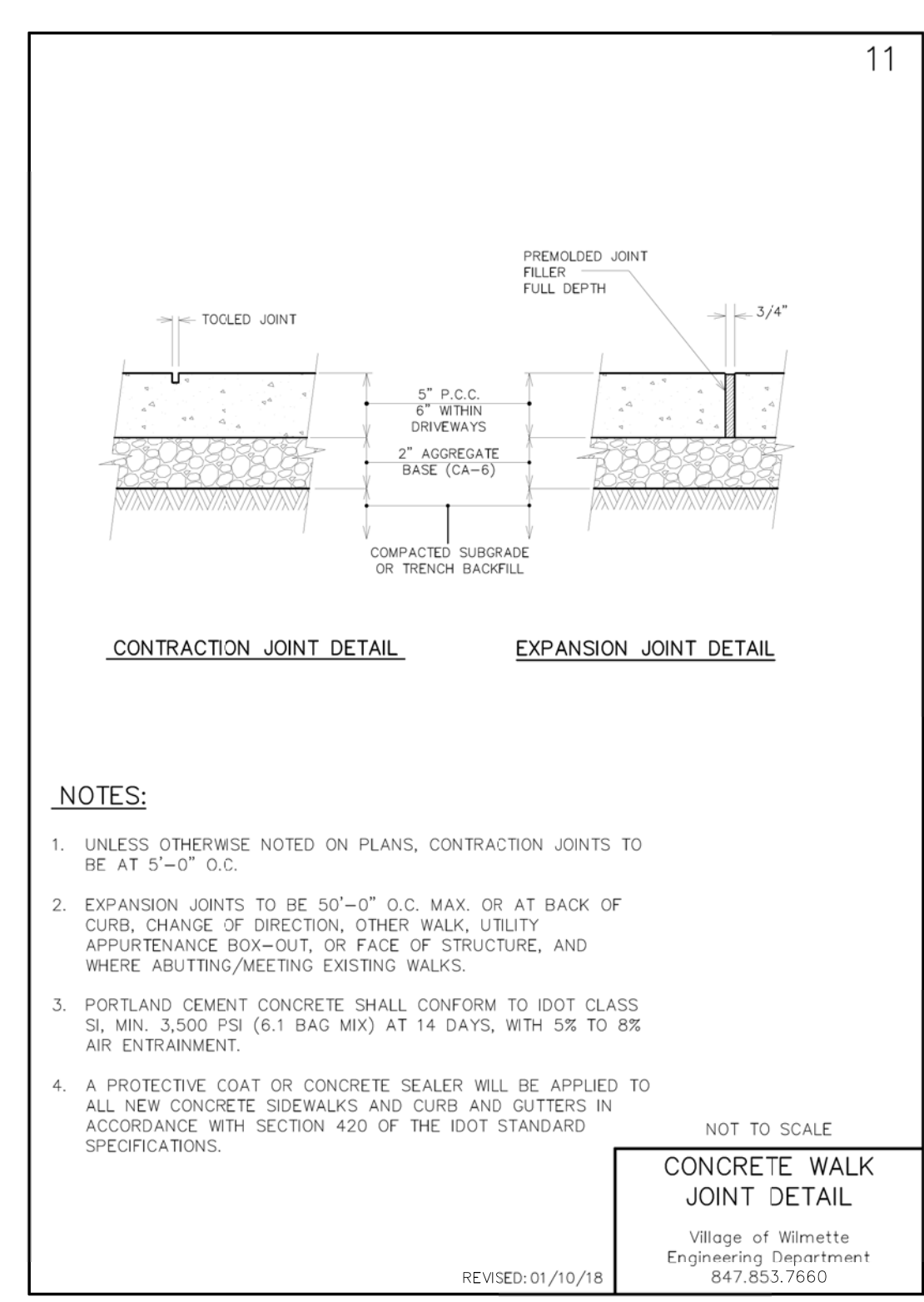
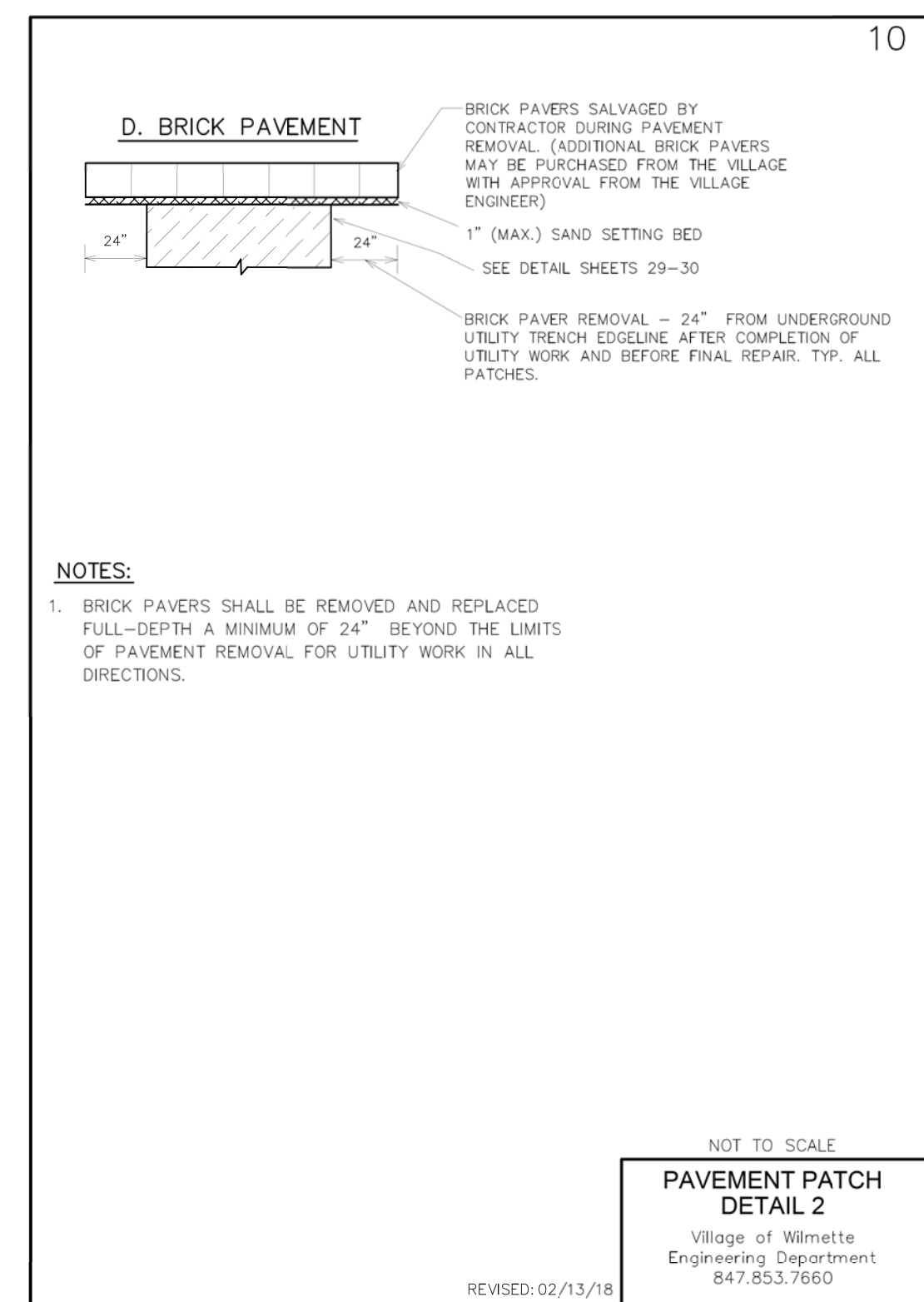
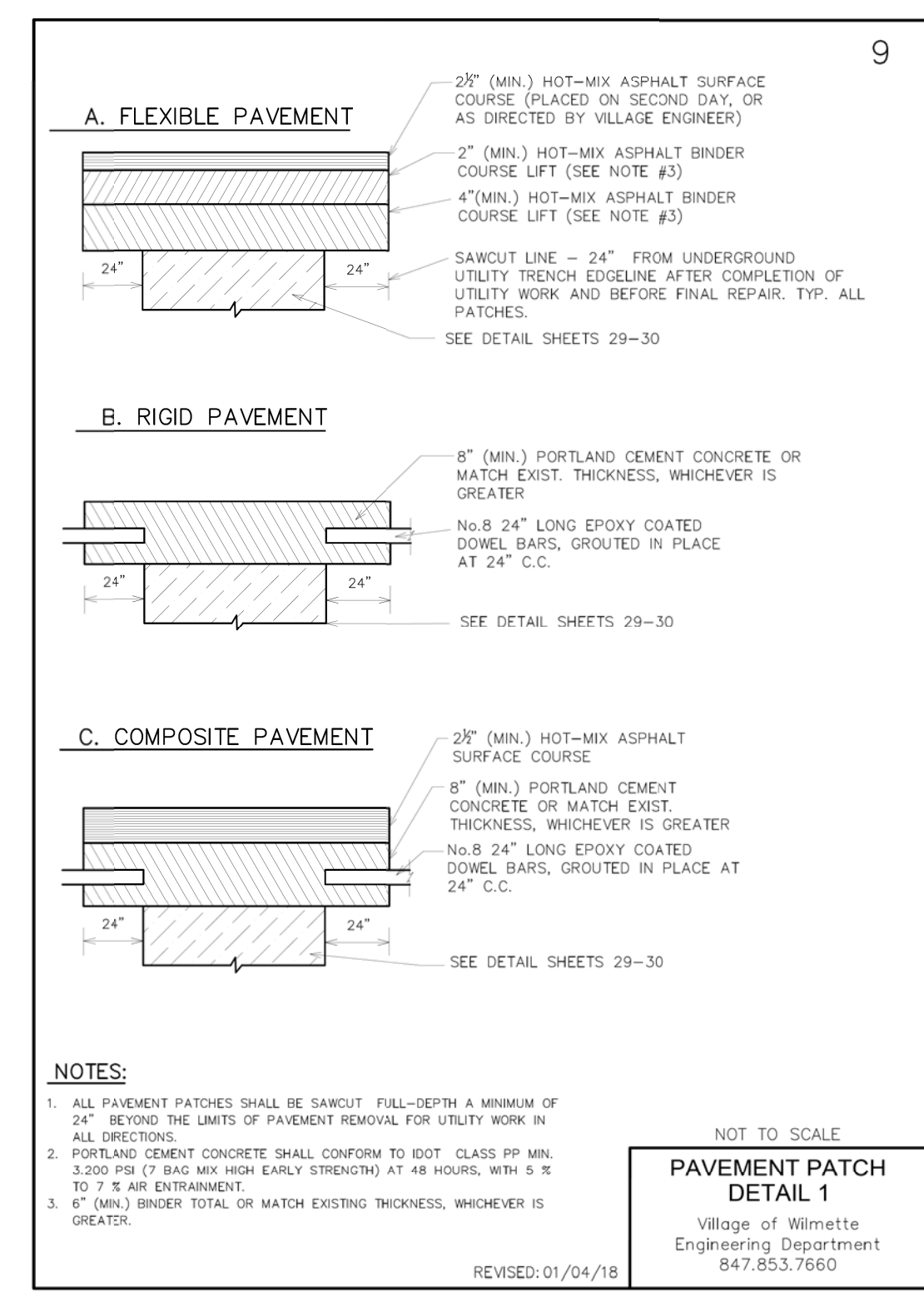
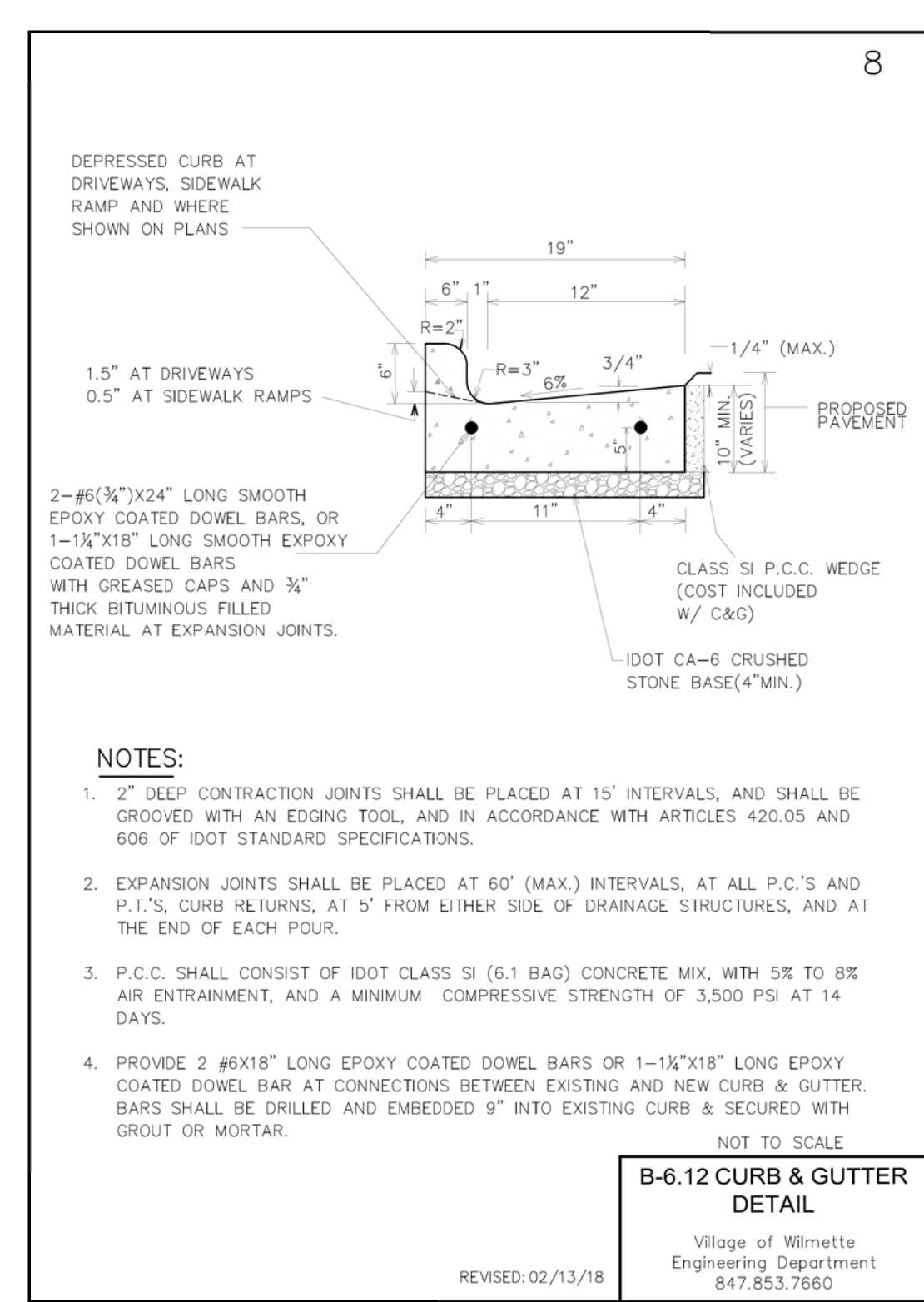
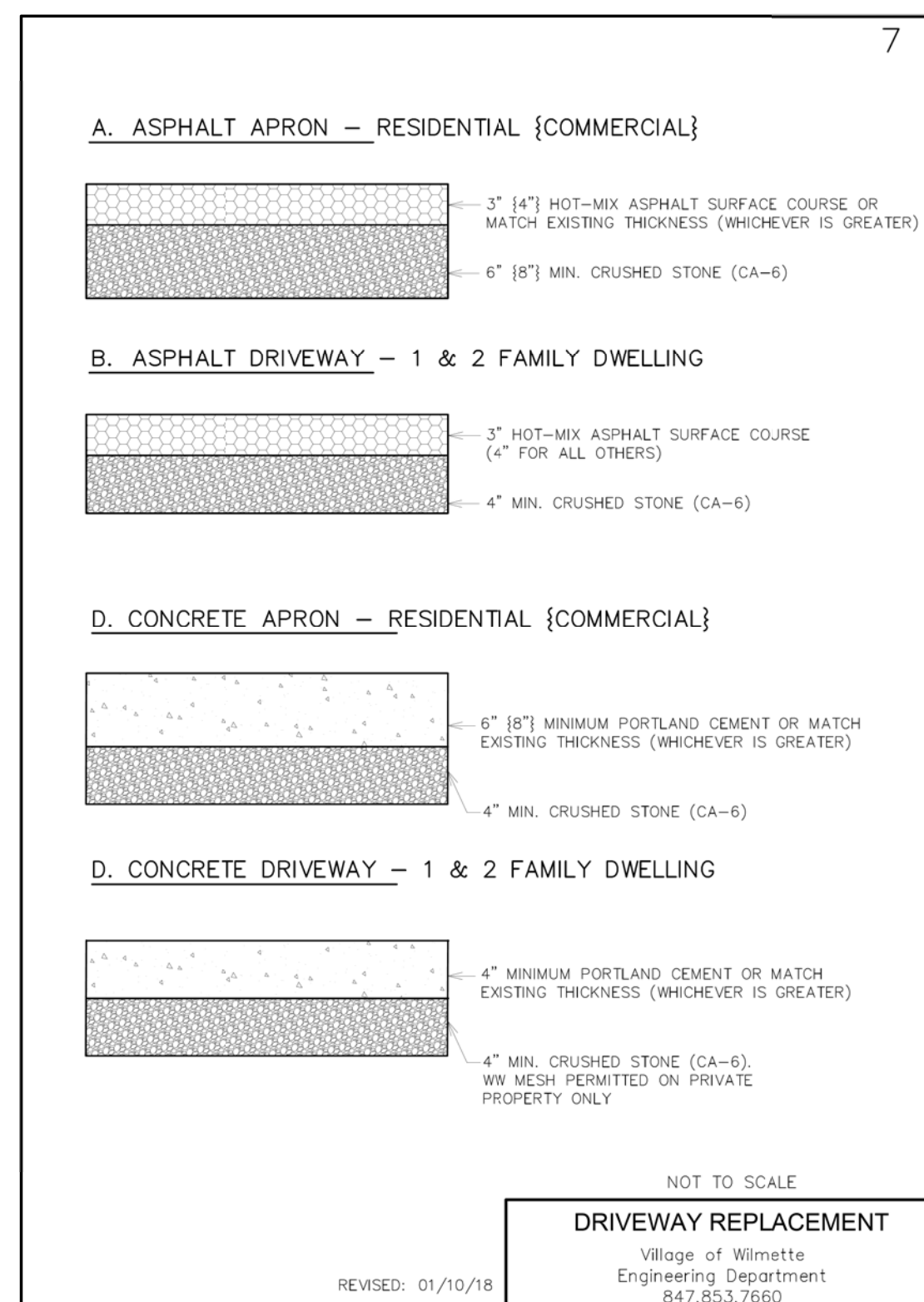
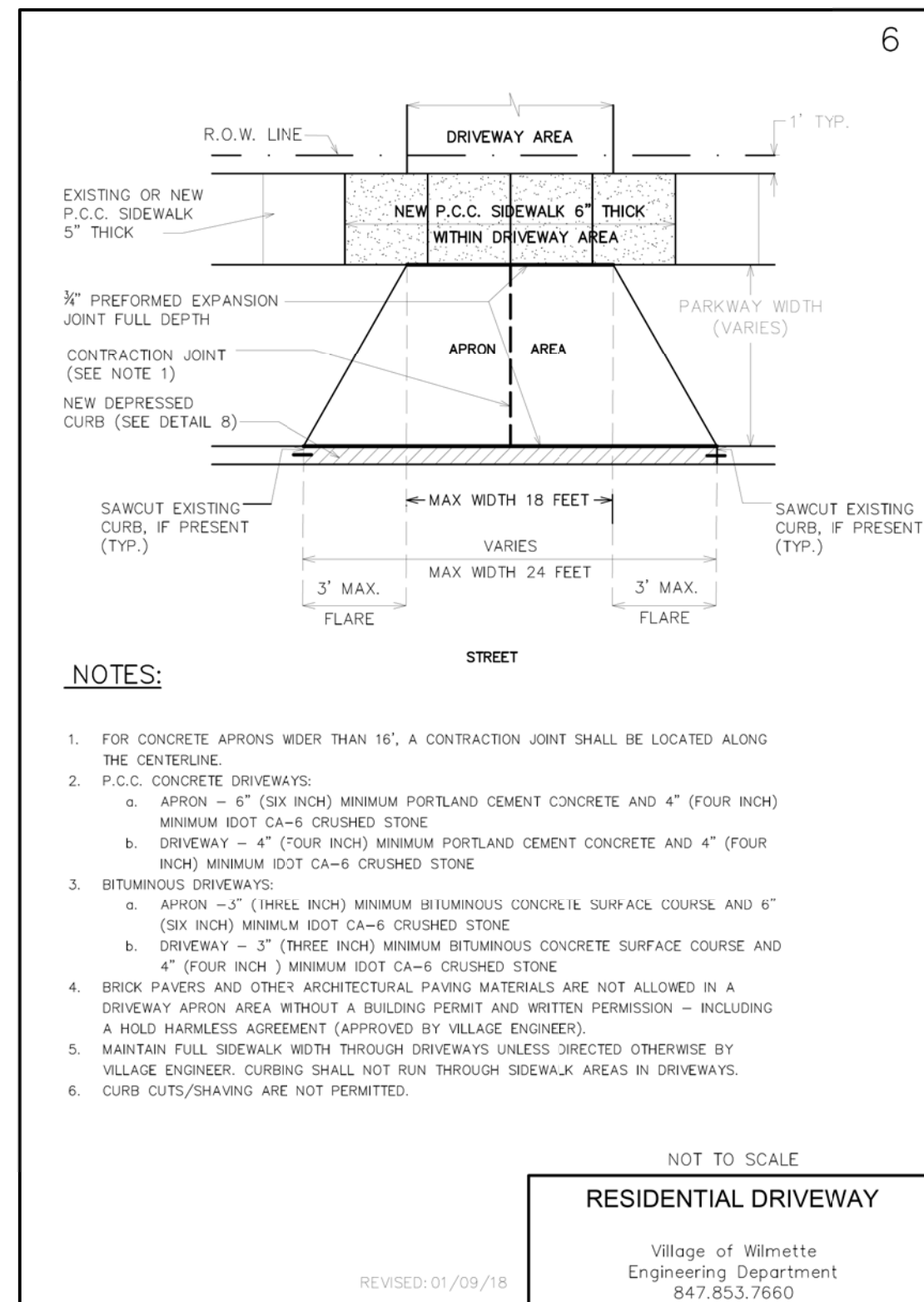
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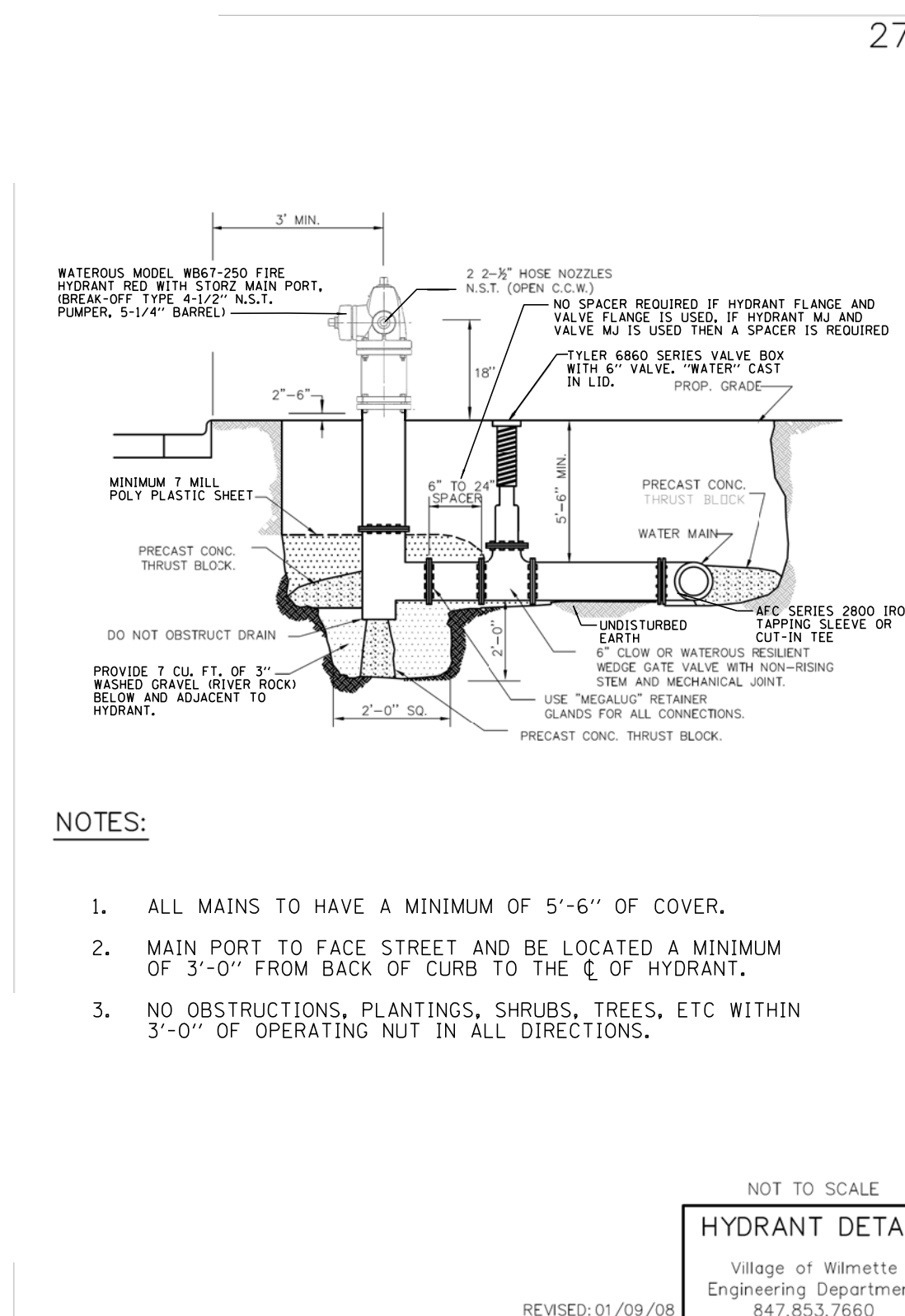
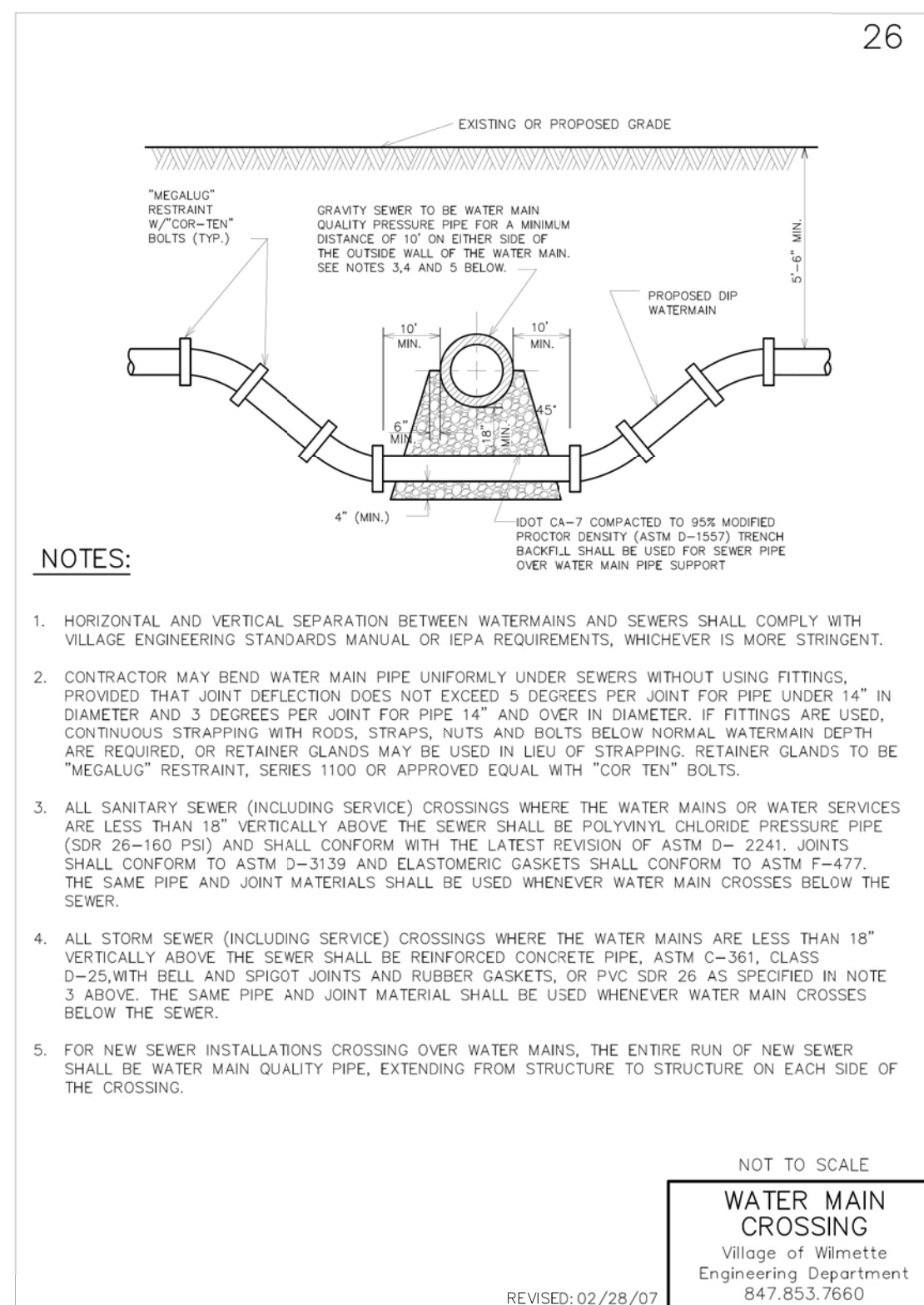
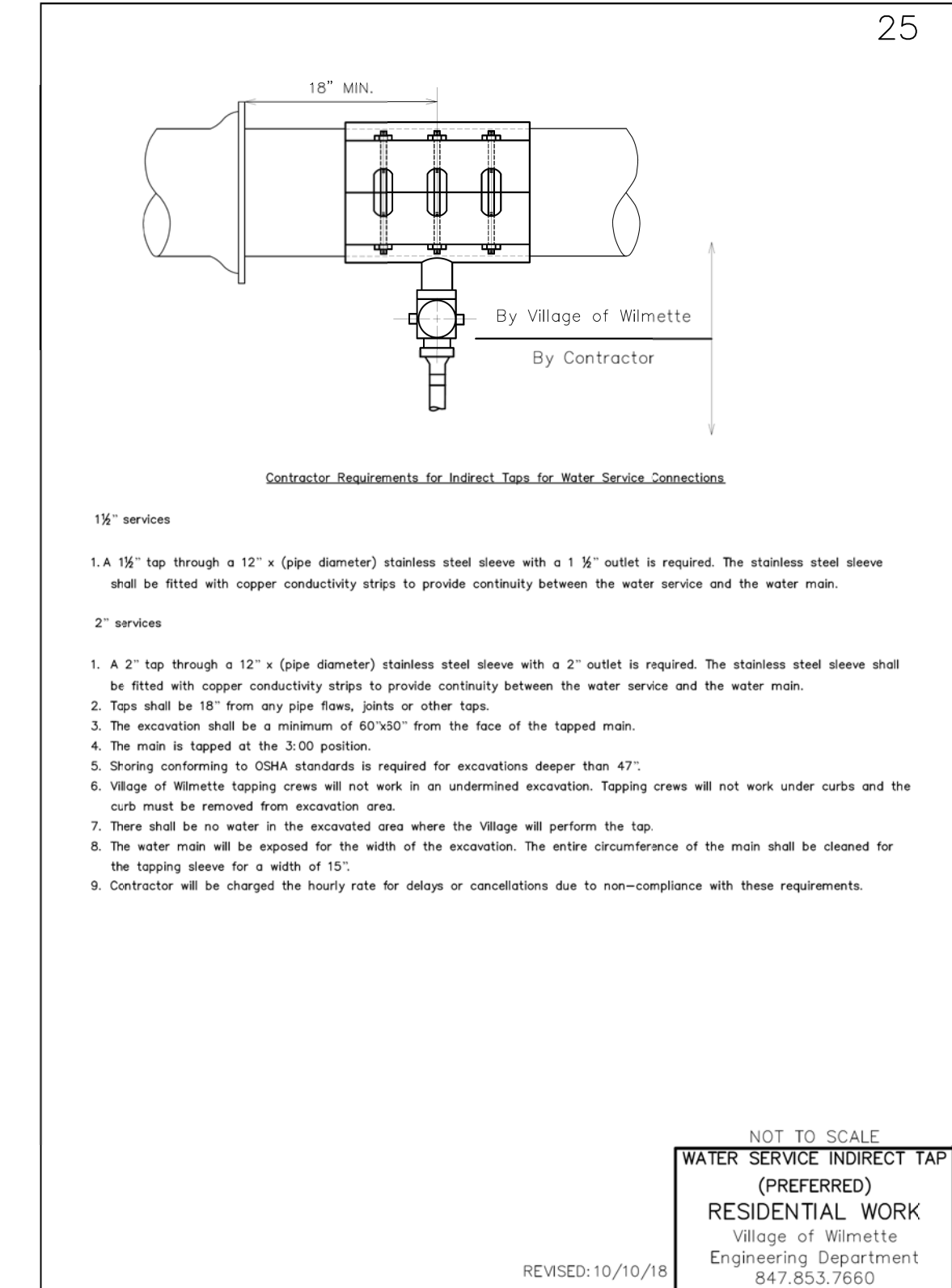
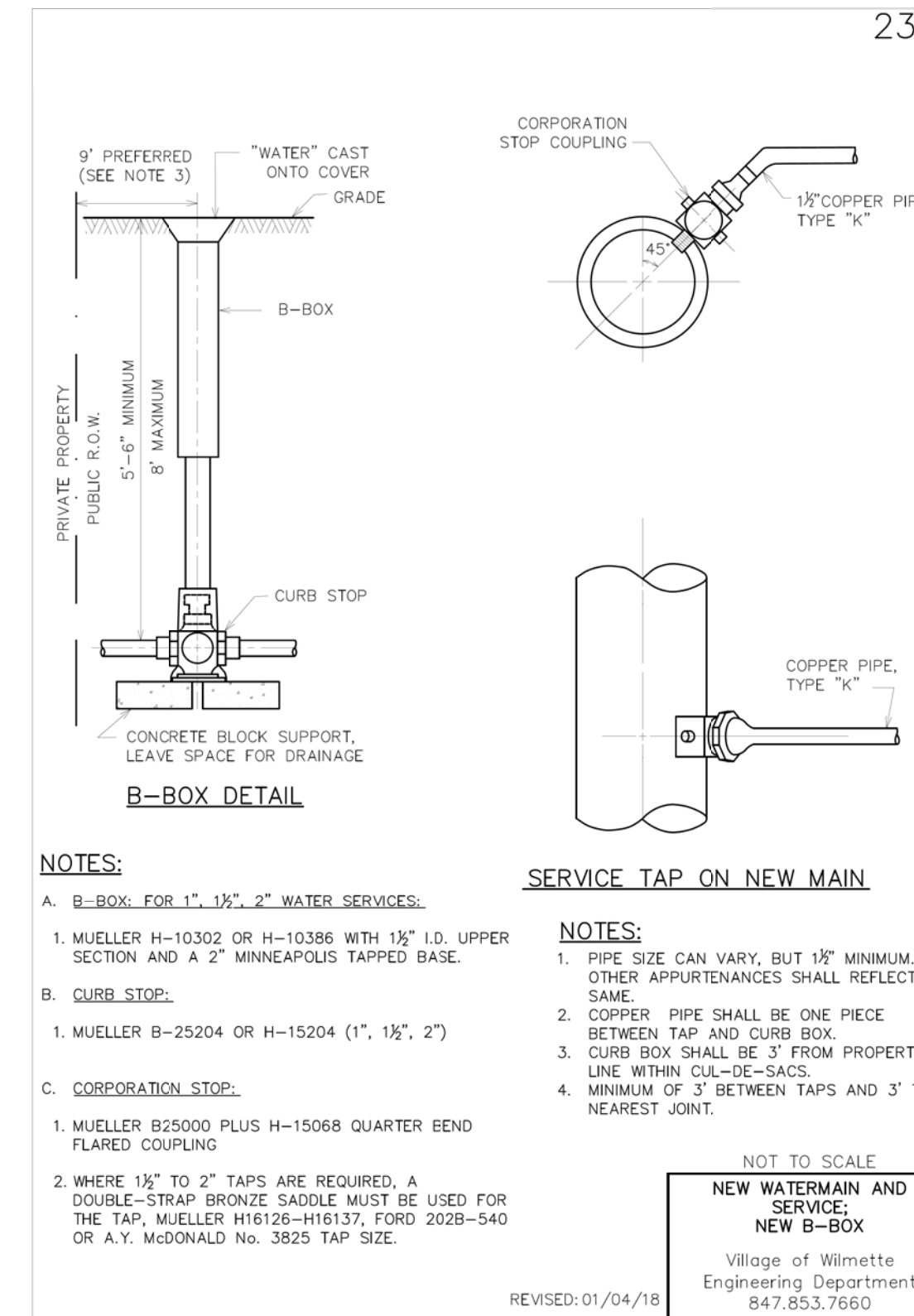
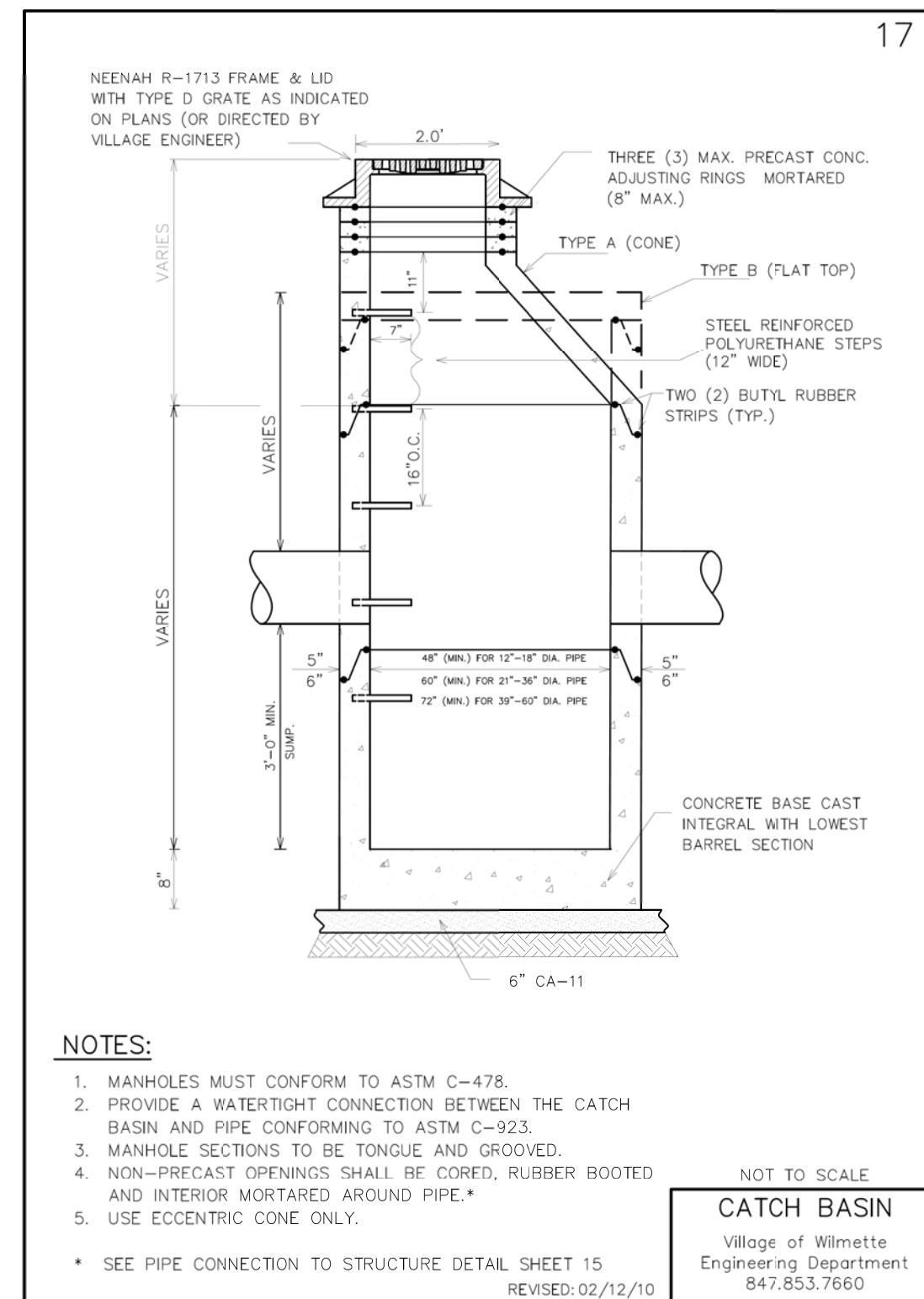
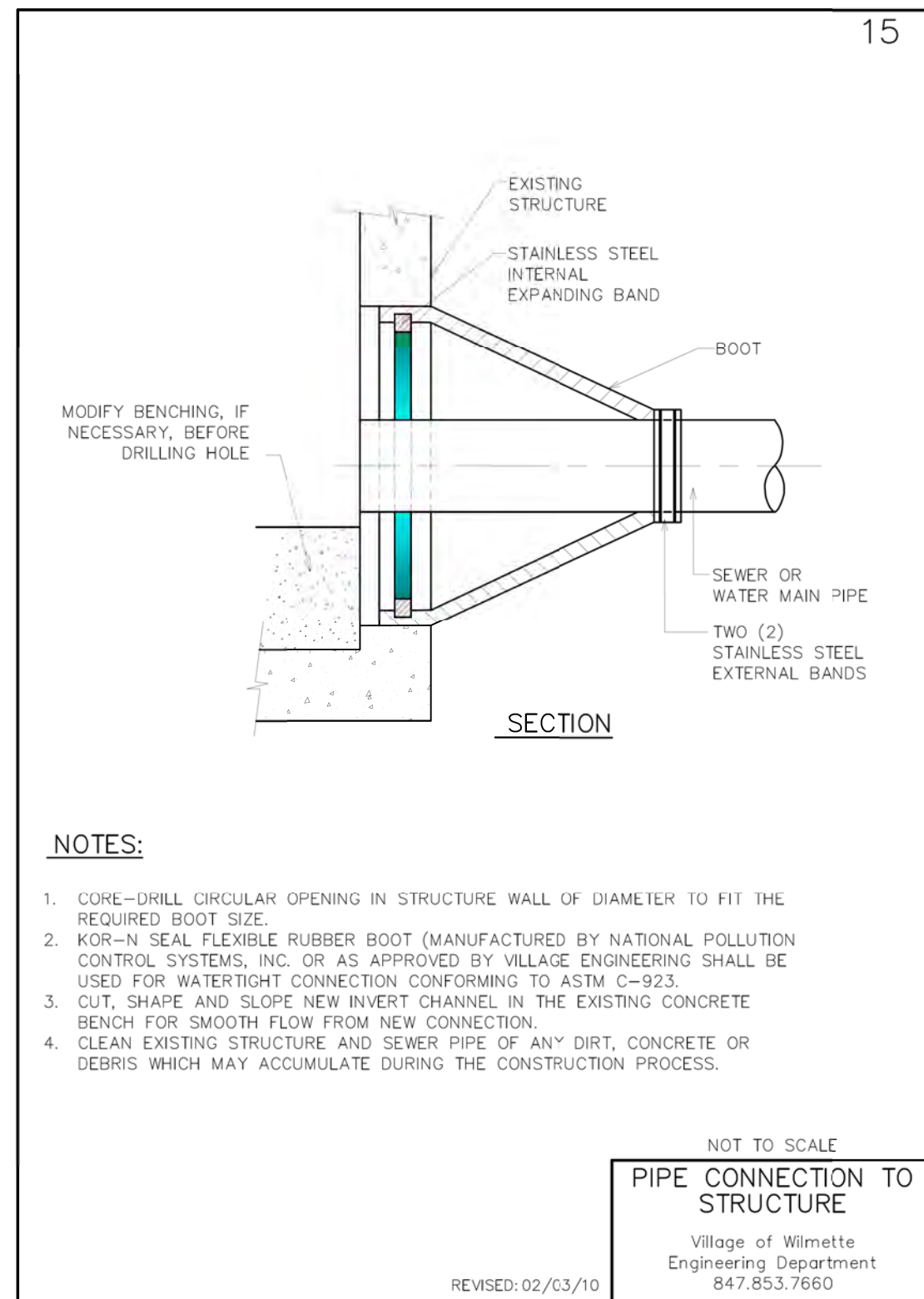
8 THRUST BLOCKS

NO.	DATE	REVISION	MAK	CHKD.
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		NATURE OF REVISION		
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1	7/28/21	REVISED PER MWRD COMMENTS	MAK	CHKD.
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**Contractor Requirements for Indirect Taps for 1-1/2" - 2" Water Service Connections**

1. To schedule water service taps, call the Public Works Division at 1-847-853-7500 and be ready to provide the project number from your permit. Taps scheduled for Wednesdays or Thursdays. Village performs only the tap and does not provide any materials.
2. Contractor to provide and install a Stainless Steel Tapped Repair Sleeves as follows:

Water Main Size	1-1/2" tap	2" tap
6"	Ford FSI-724-125-CC6-CS SB 264-069012-713 AYM 435-0705-12-A6-C-TLPC Mueller 2-546-12-484	Ford FSI-724-125-CC7-CS SB 264-069012-715 AYM 435-0705-12-A7-C Mueller 2-548-12-484
8"	Ford FSI-939-125-CC6-CS SB 264-090512-713 AYM 435-0918-12-A6-C-TLPC Mueller 2-546-12-899	Ford FSI-939-125-CC7-CS SB 264-090512-715 AYM 435-0918-12-A7-C-TLPC Mueller 2-548-12-899
10"	Ford FSI-1144-125-CC6-CS SB 264-111012-713 AYM 435-1125-12-A6-C-TLPC Mueller 2-546-12-1104	Ford FSI-1144-125-CC7-CS SB 264-111012-715 AYM 435-1125-12-A7-C-TLPC Mueller 2-548-12-1104
12"	Ford FSI-1350-125-CC6-CS SB 264-132012-713 AYM 435-1335-12-A6-C-TLPC Mueller 2-546-12-1310	Ford FSI-1350-125-CC7-CS SB 264-132012-715 AYM 435-1335-12-A7-C-TLPC Mueller 2-548-12-1310

If the Contractor is proposing a different sleeve, please provide cut sheet and ensure that the saddle fits oversize cast iron pipe:

6"	6.84" - 7.24" range
8"	8.99" - 9.39" range
10"	11.64" - 11.44" range
12"	13.10" - 13.50" range

NOTES:

3. Taps shall be a minimum of 18" from any pipe flows, bells, joints, repair sleeves or other taps.
4. The main will be tapped at the 3:00 or 9:00 position. All other tap locations need approval by village.
5. The excavation shall be a minimum 60" x 60" on the tap side of the main. **OSHA approved shoring is required for all excavations deeper than 47". There shall be no exceptions.**
6. The water main will be exposed for the width of the excavation. The entire circumference of the main shall be cleaned for a width of 15" on each side of proposed tap site.
7. Contractor shall install sleeve on the main, clean the main and not have copper service line interfering with tapping crew.
8. Village of Wilmette tapping crews will not work in an undetermined excavation and will not work under curbs. Curb must be removed from excavation/tapping area.
9. There shall be no water in the excavation. Contractor shall place sufficient gravel or stone base in excavation for the safety of tapping crew.
10. Brick pavers; the contractor shall stack and set aside all brick pavers for re-use or for delivery to Public Works by the contractor.
11. B-box shall be located in parkway at least 2' from any sidewalk, driveway, curb, tree, streetlight, hydrant or other appurtenance.

**Contractor supplied parts:**

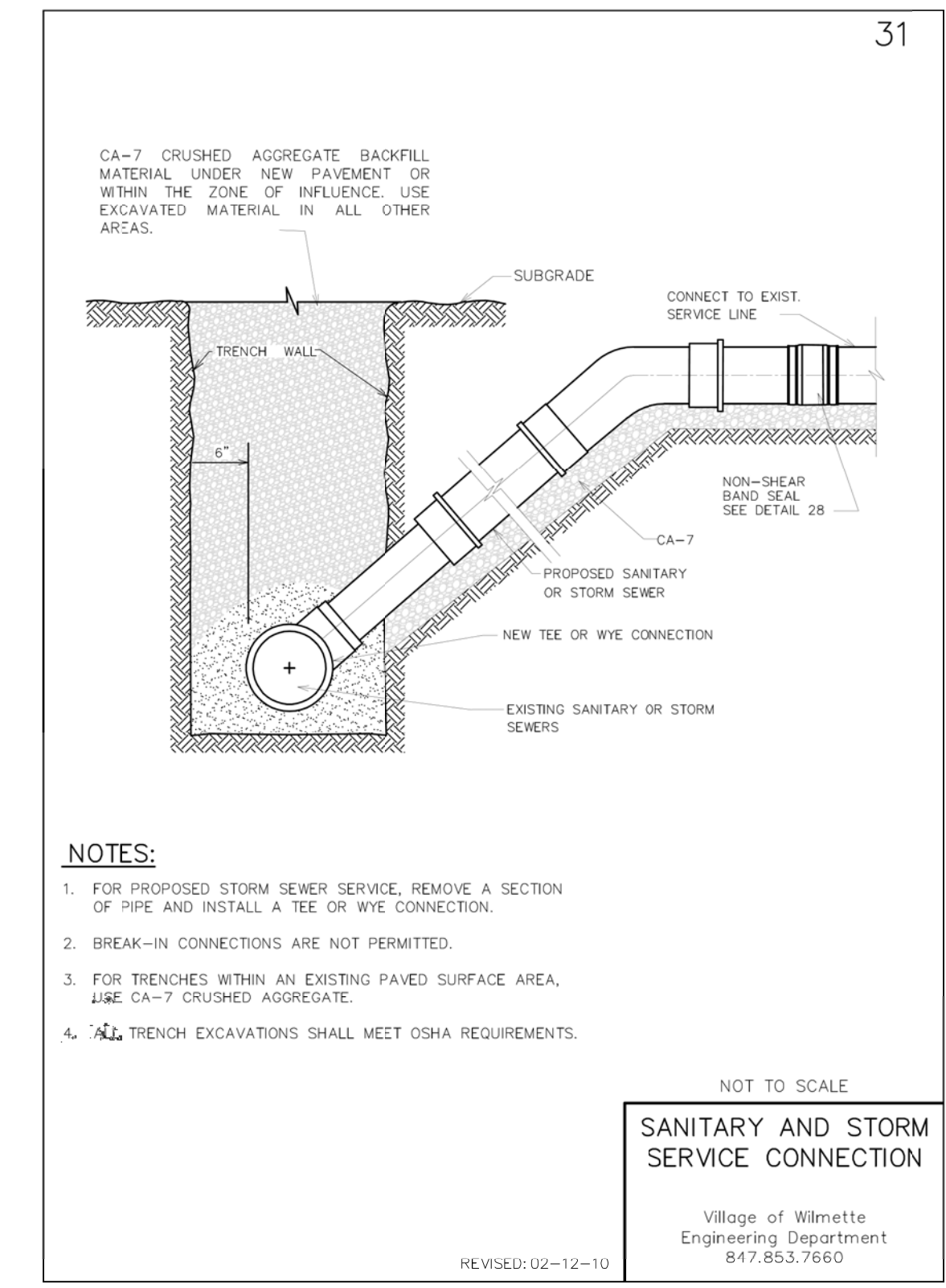
For 1 1/2" service - all brass parts to be no lead or low lead

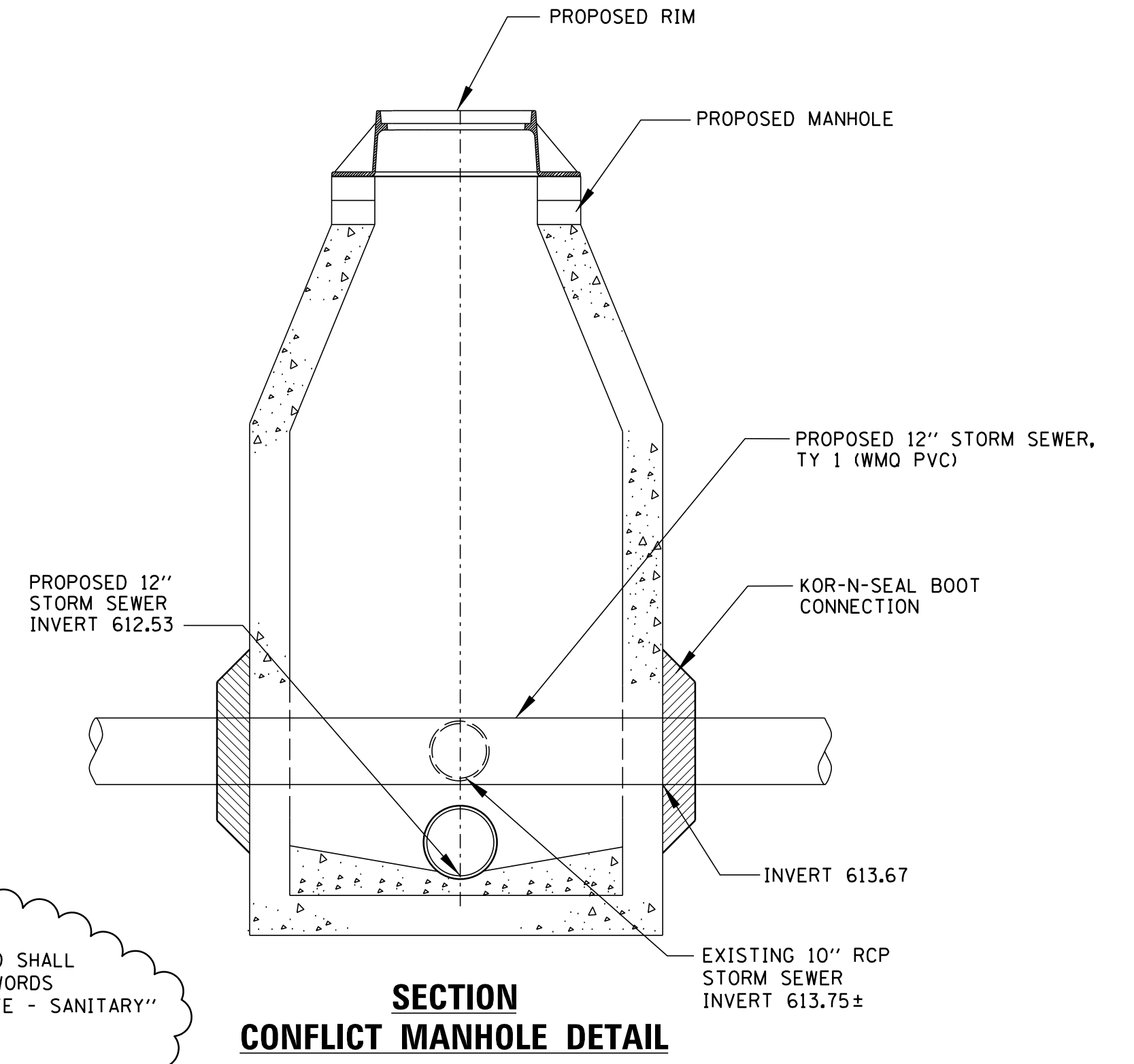
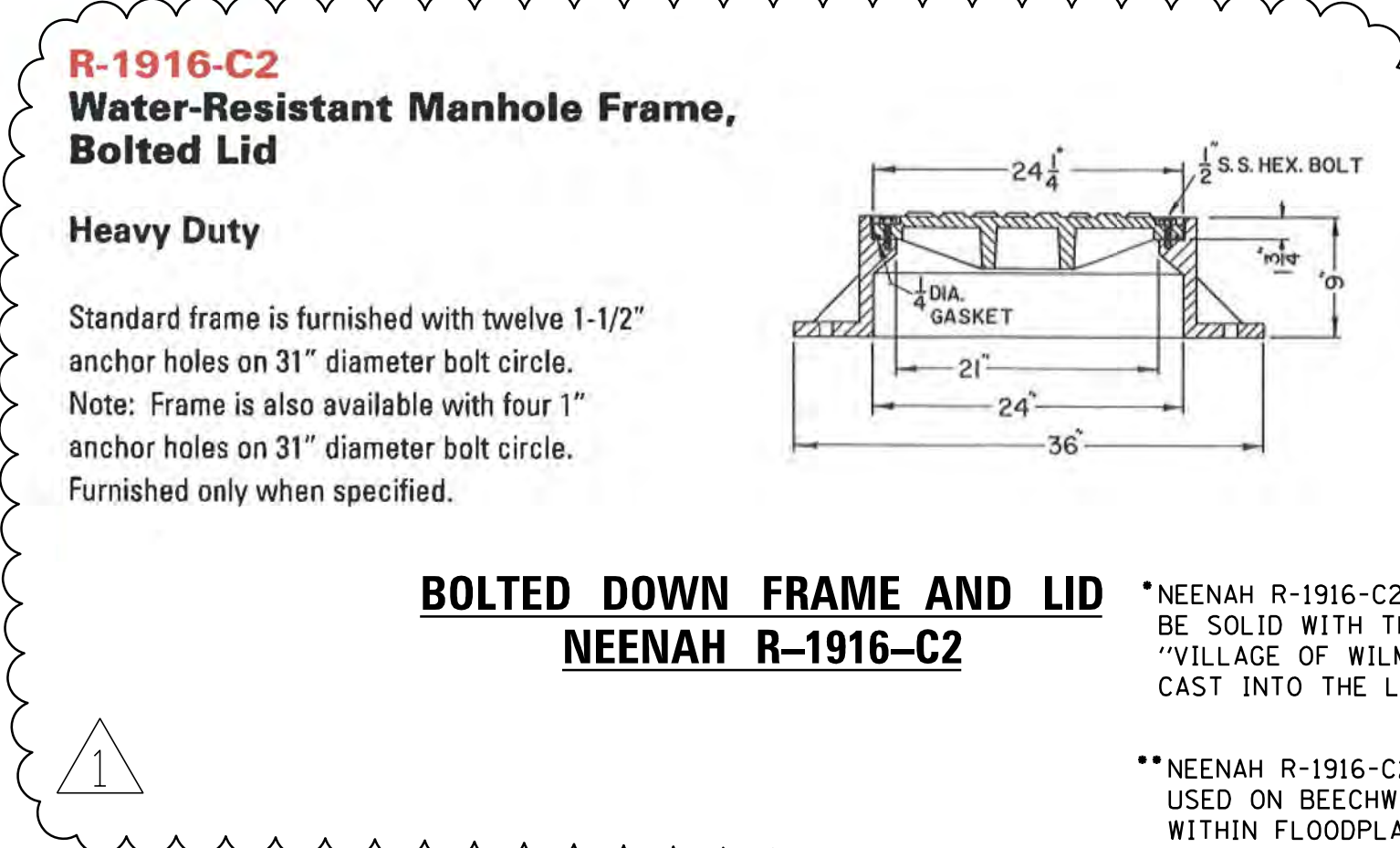
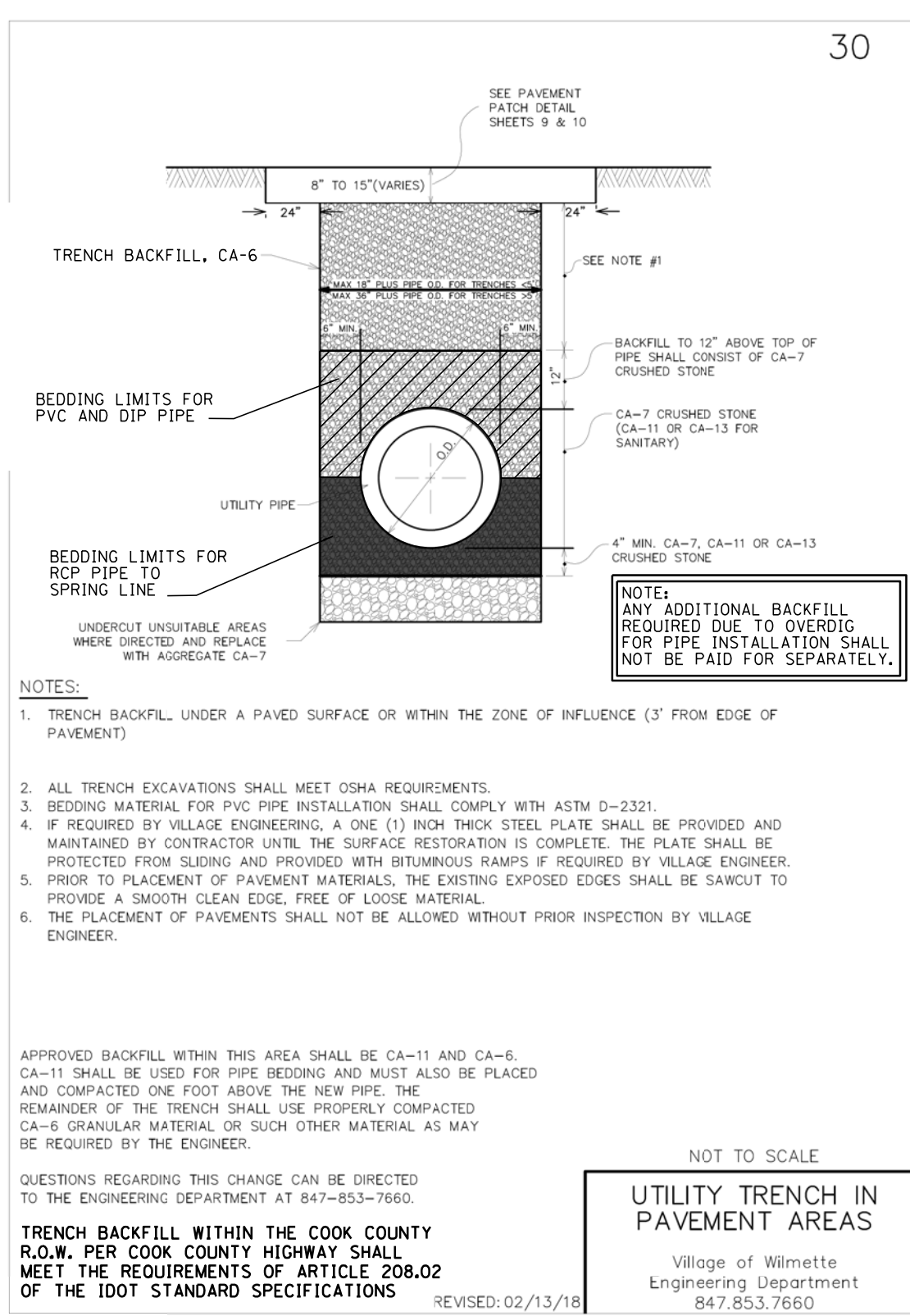
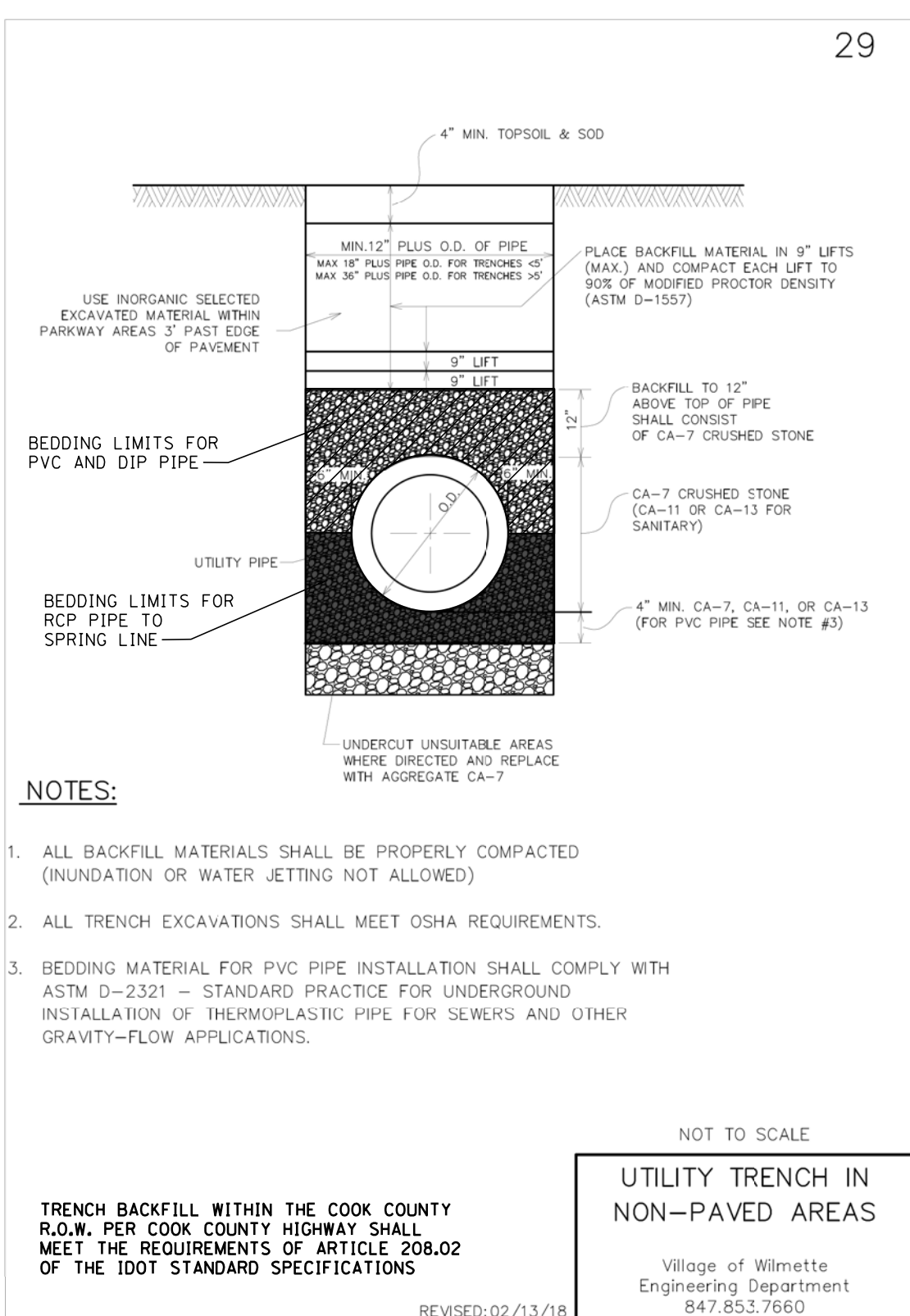
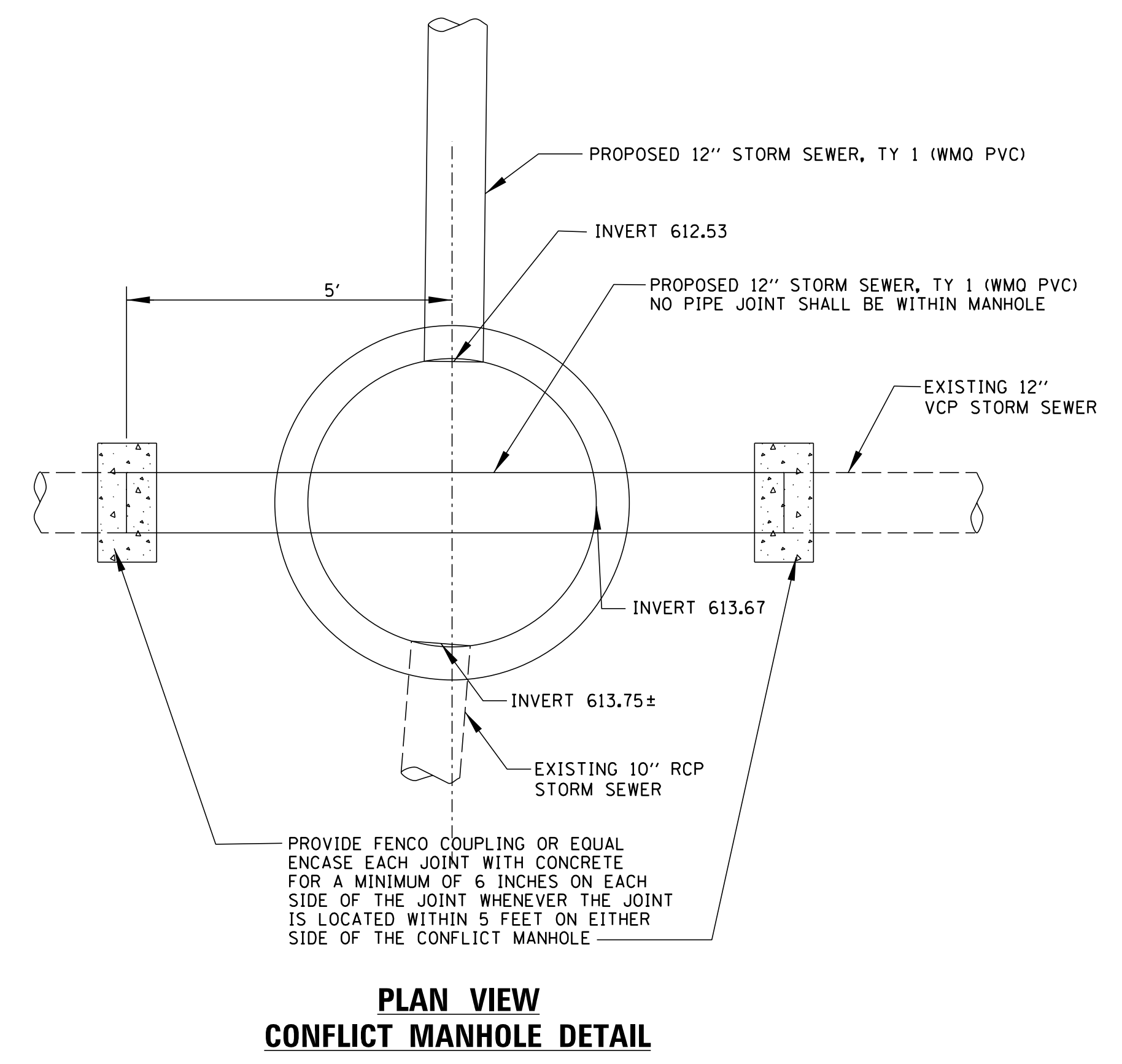
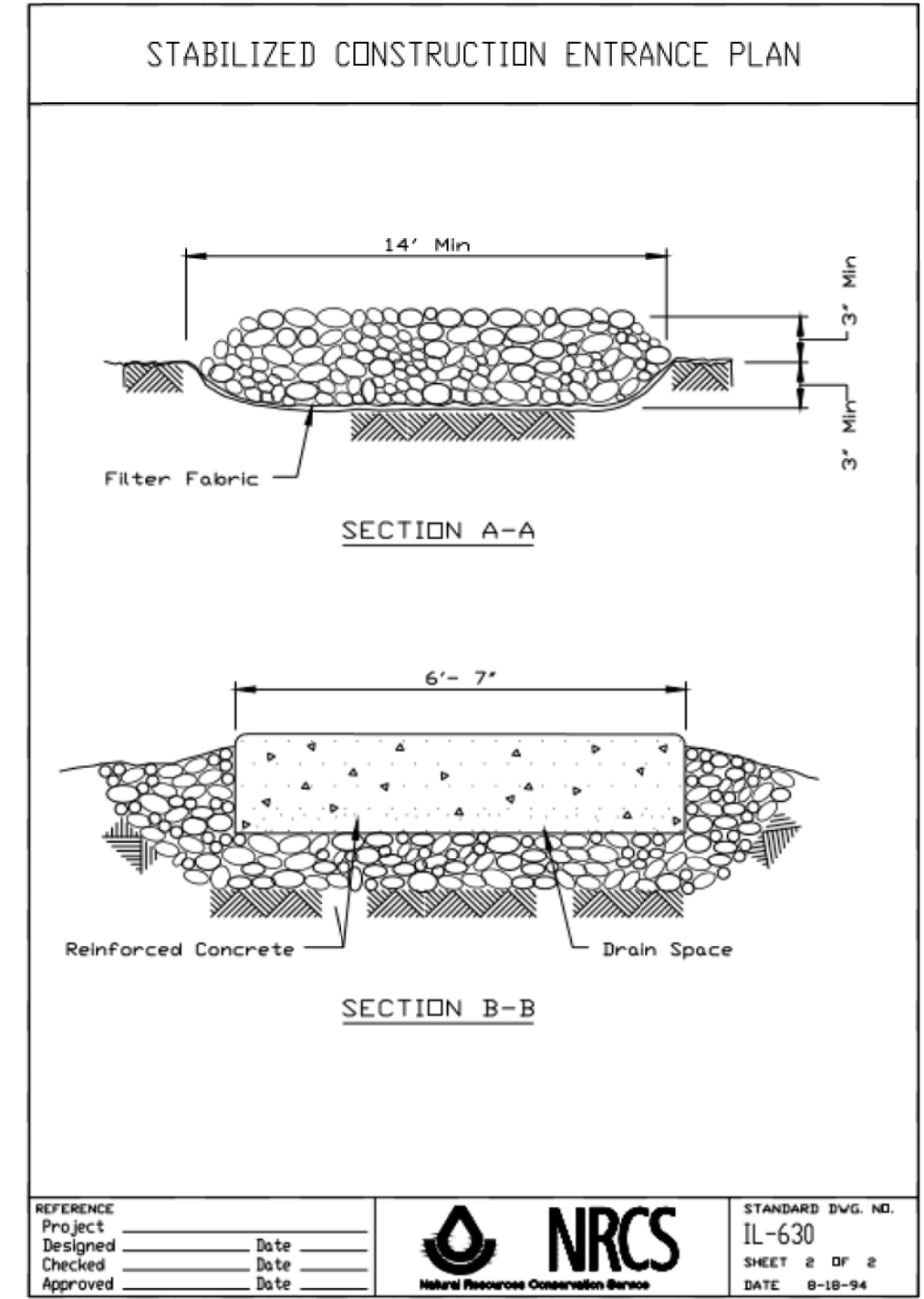
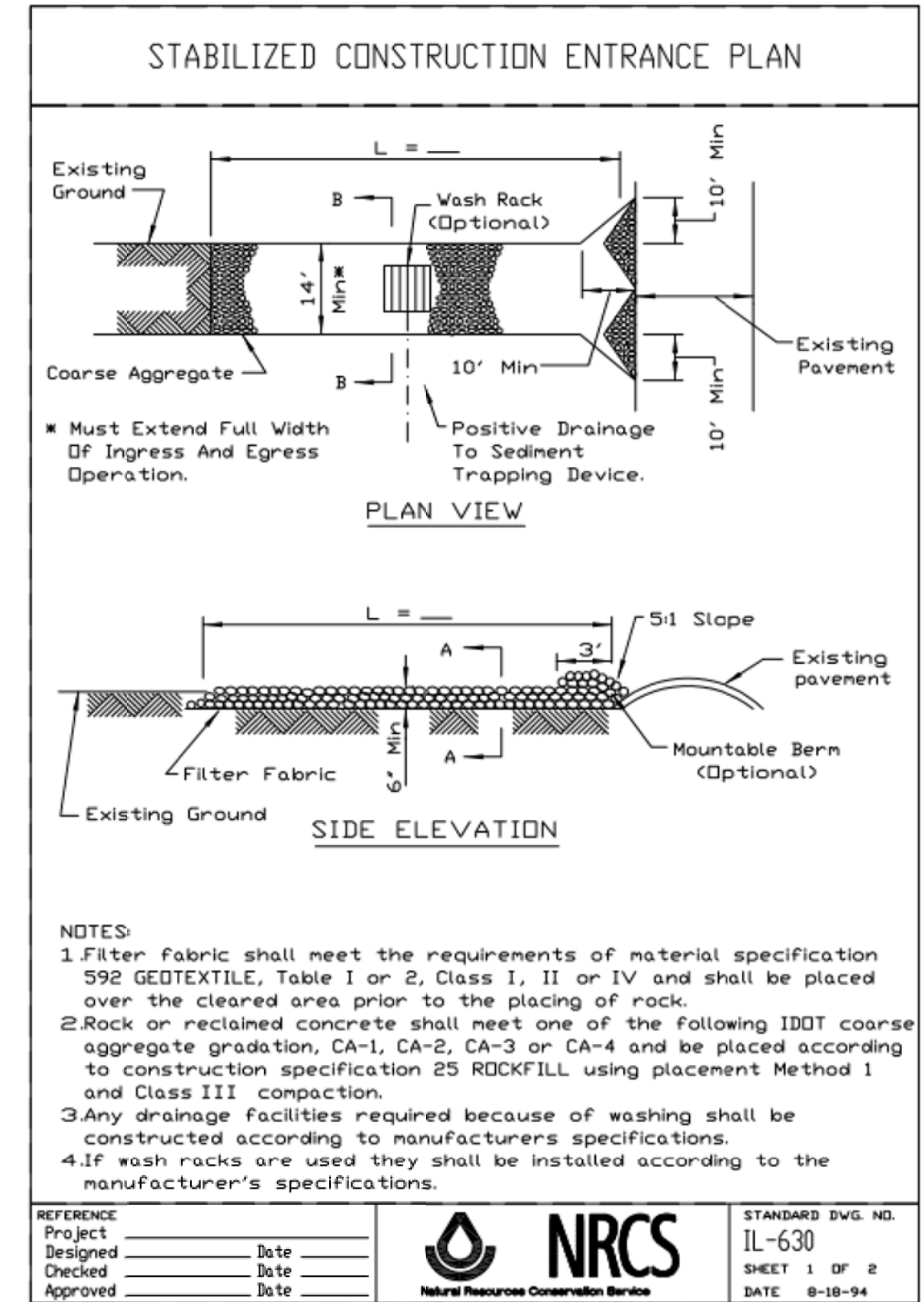
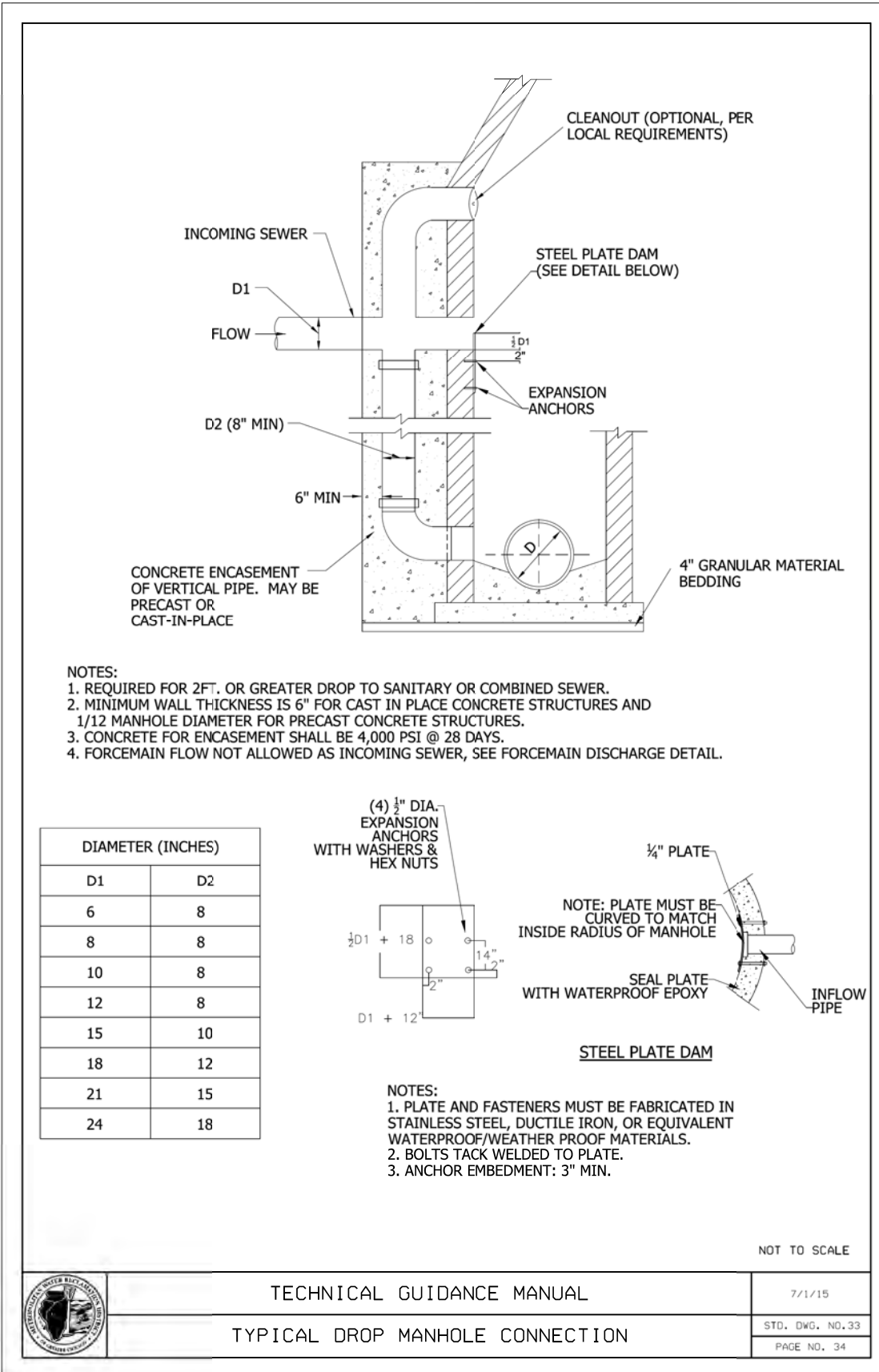
1. Mueller B-2500N flare, 1-1/2" corporation valve
2. Mueller H-15154N, flare, 1 1/2" curb stop valve, 1/4 turn, Minneapolis thread
3. Mueller 10304 b-box with pentagon plug
4. Mueller H10343 Bushing 3 1/2" x 3"
5. All Copper shall be type "K"
6. Tapped Sleeve as indicated in table above.

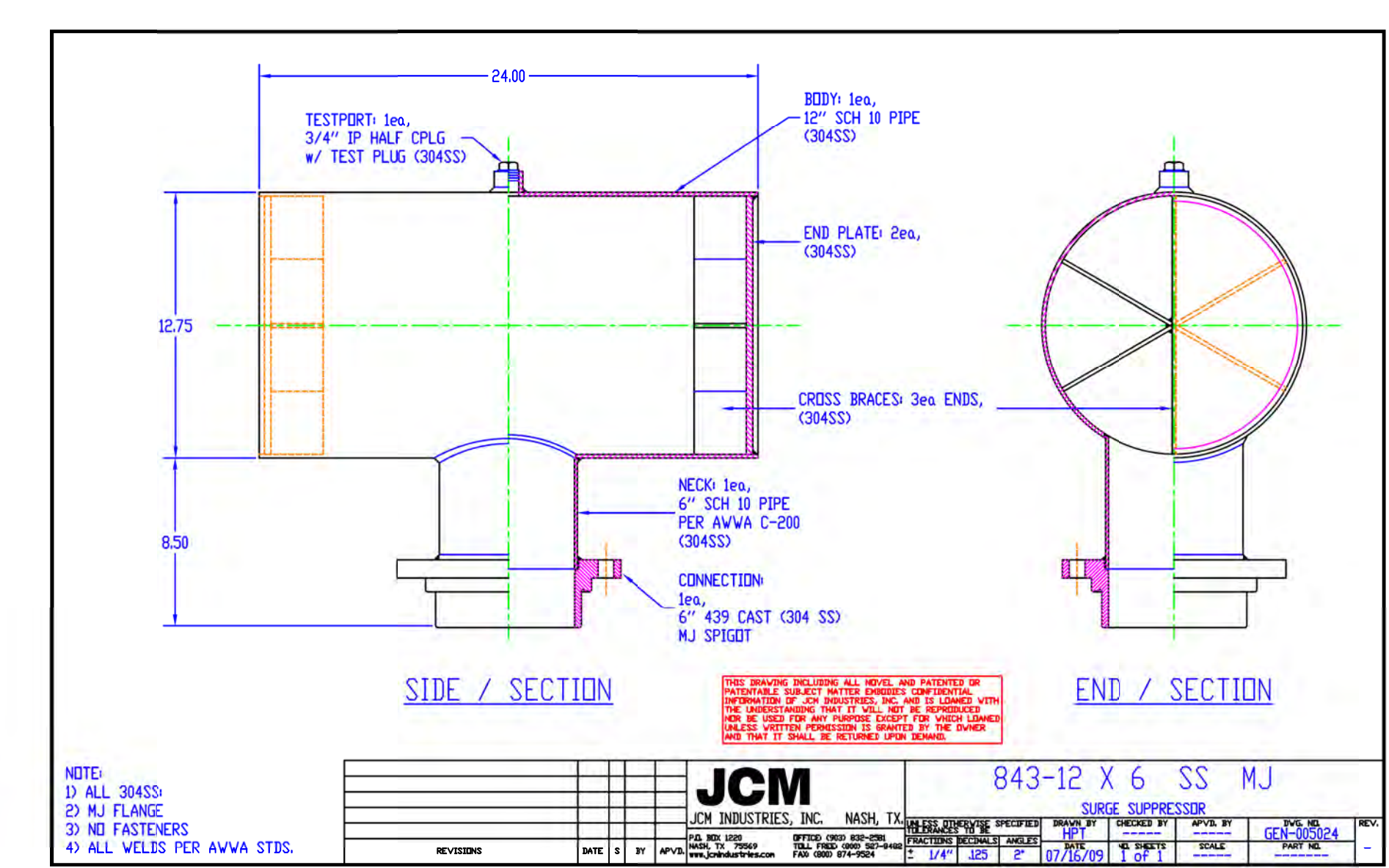
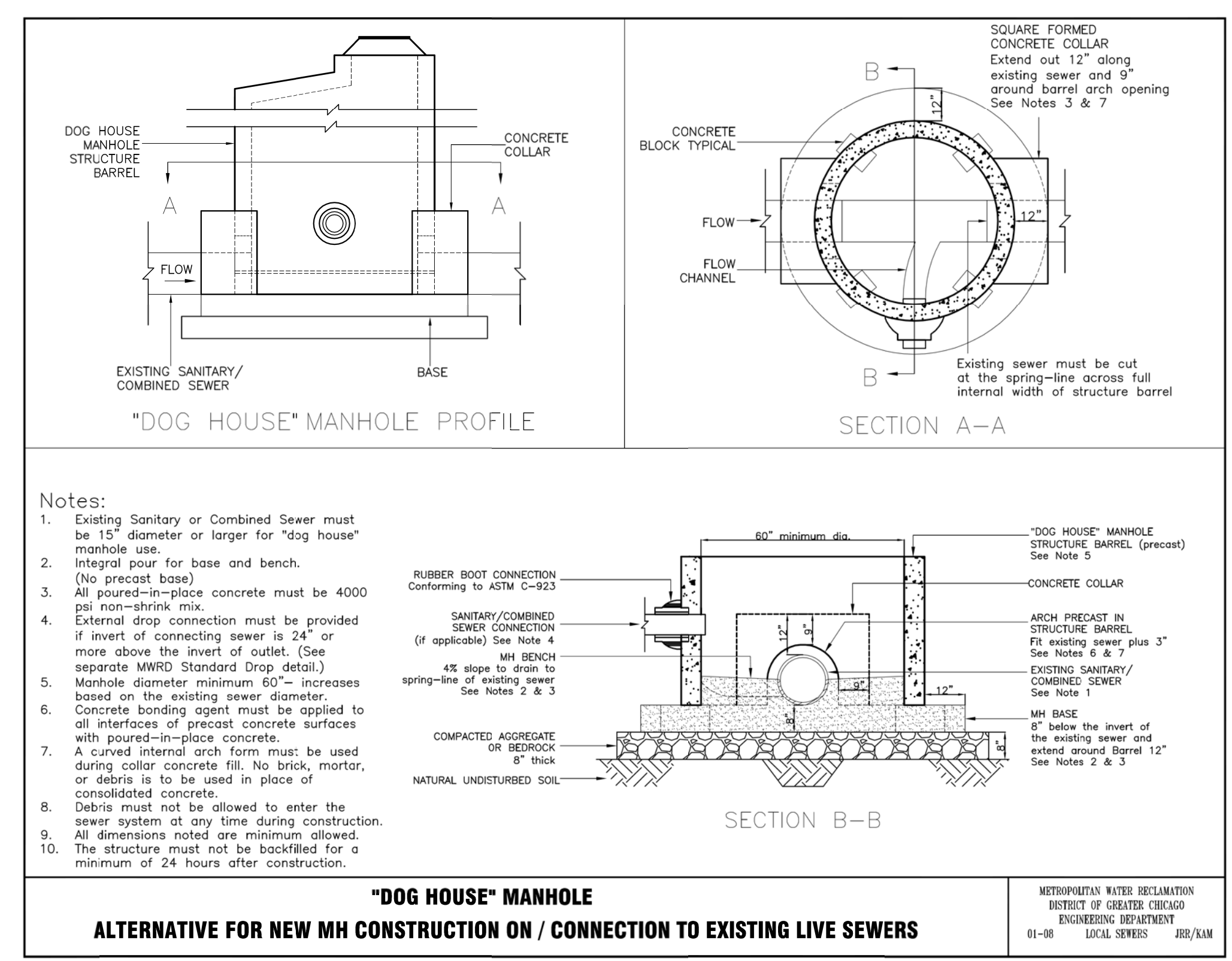
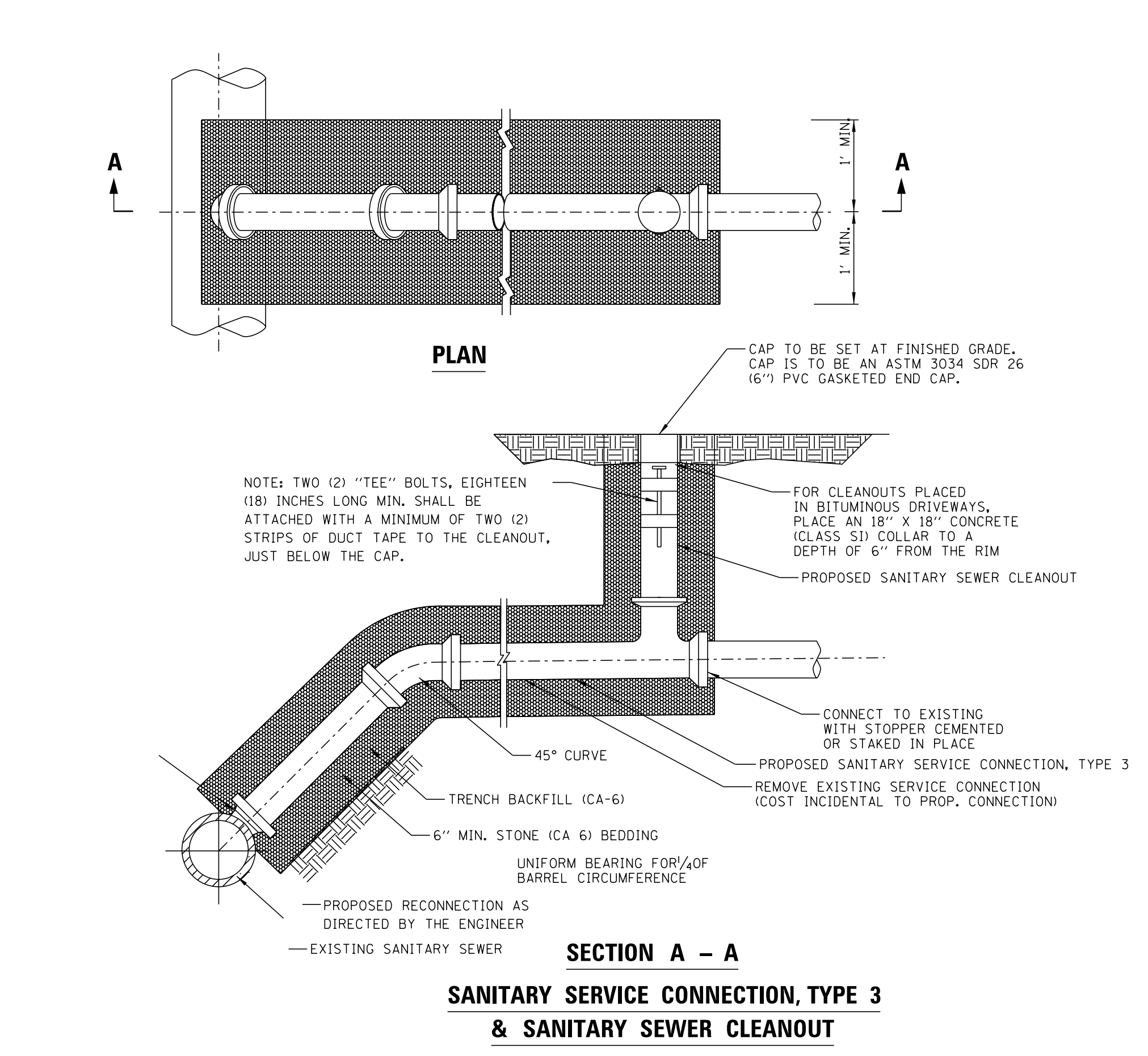
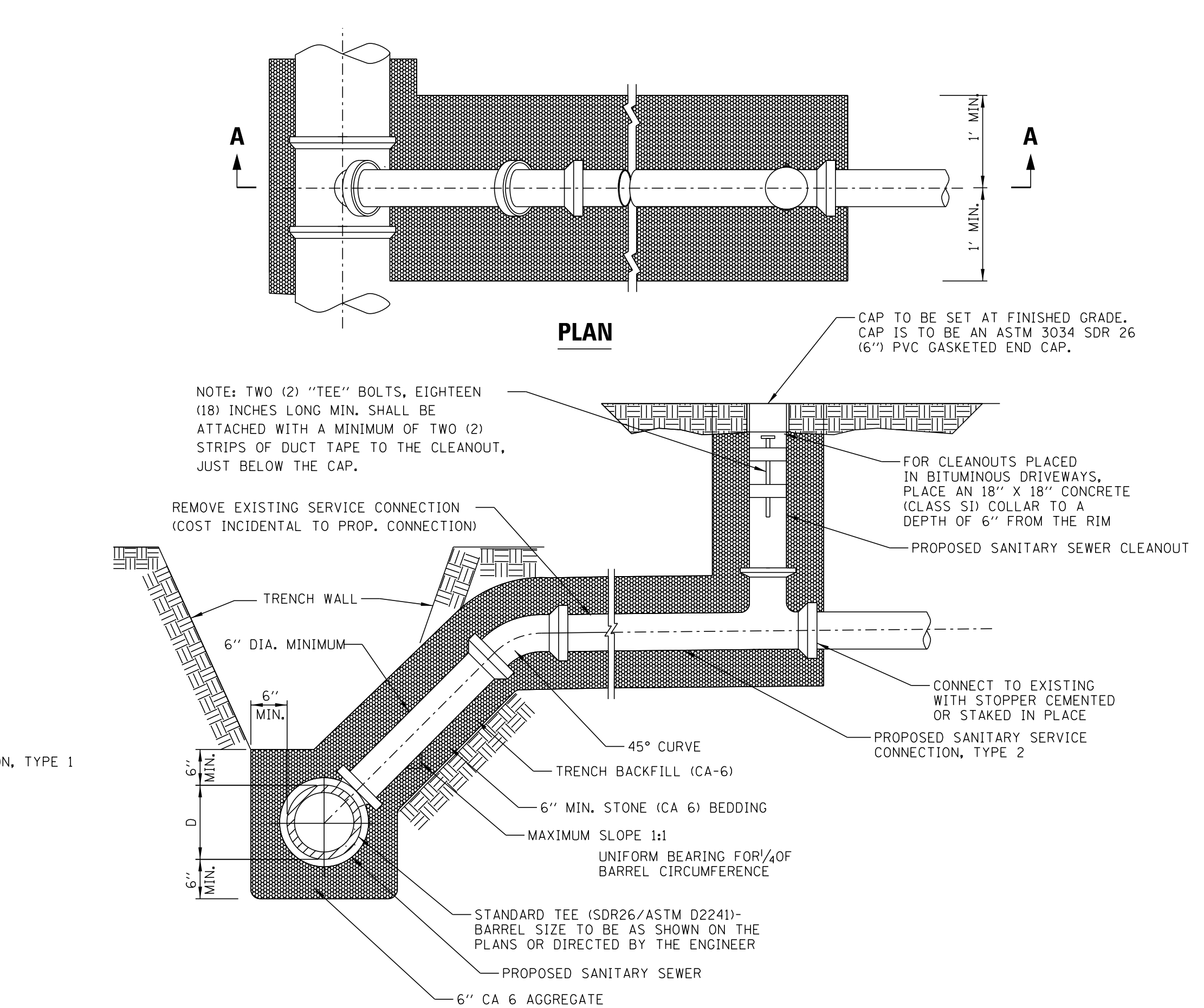
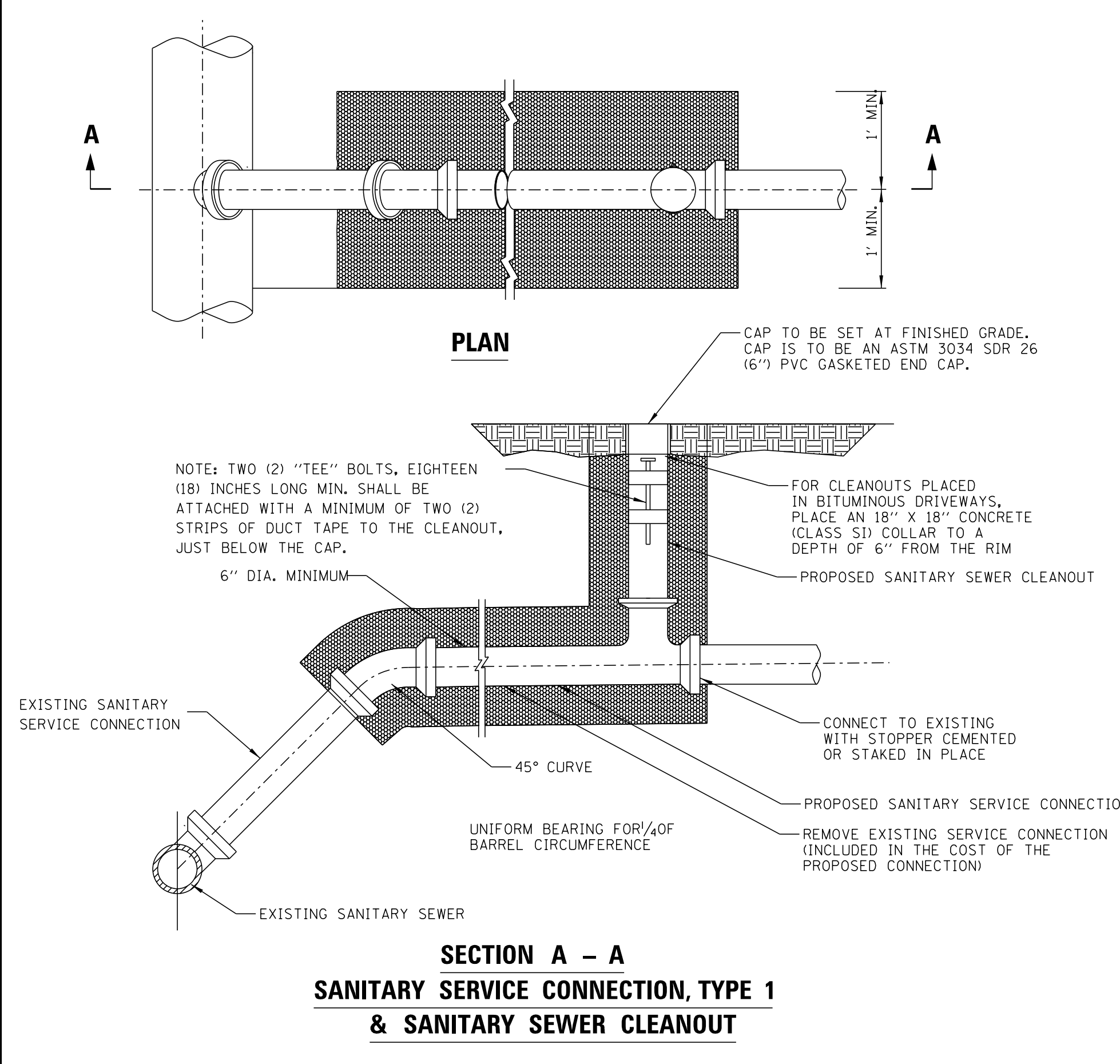
For 2" service - all brass parts to be no lead or low lead

1. Mueller B-2500N flare, 2" corporation valve
2. Mueller H-15154N, flare, 2" curb stop valve, 1/4 turn, Minneapolis thread
3. Mueller 10304 b-box with pentagon plug
4. All Copper shall be type "K"
5. Tapped Sleeve as indicated in table ab

January 12, 2021







**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

**BAXTER & WOODMAN**  
 Consulting Engineers

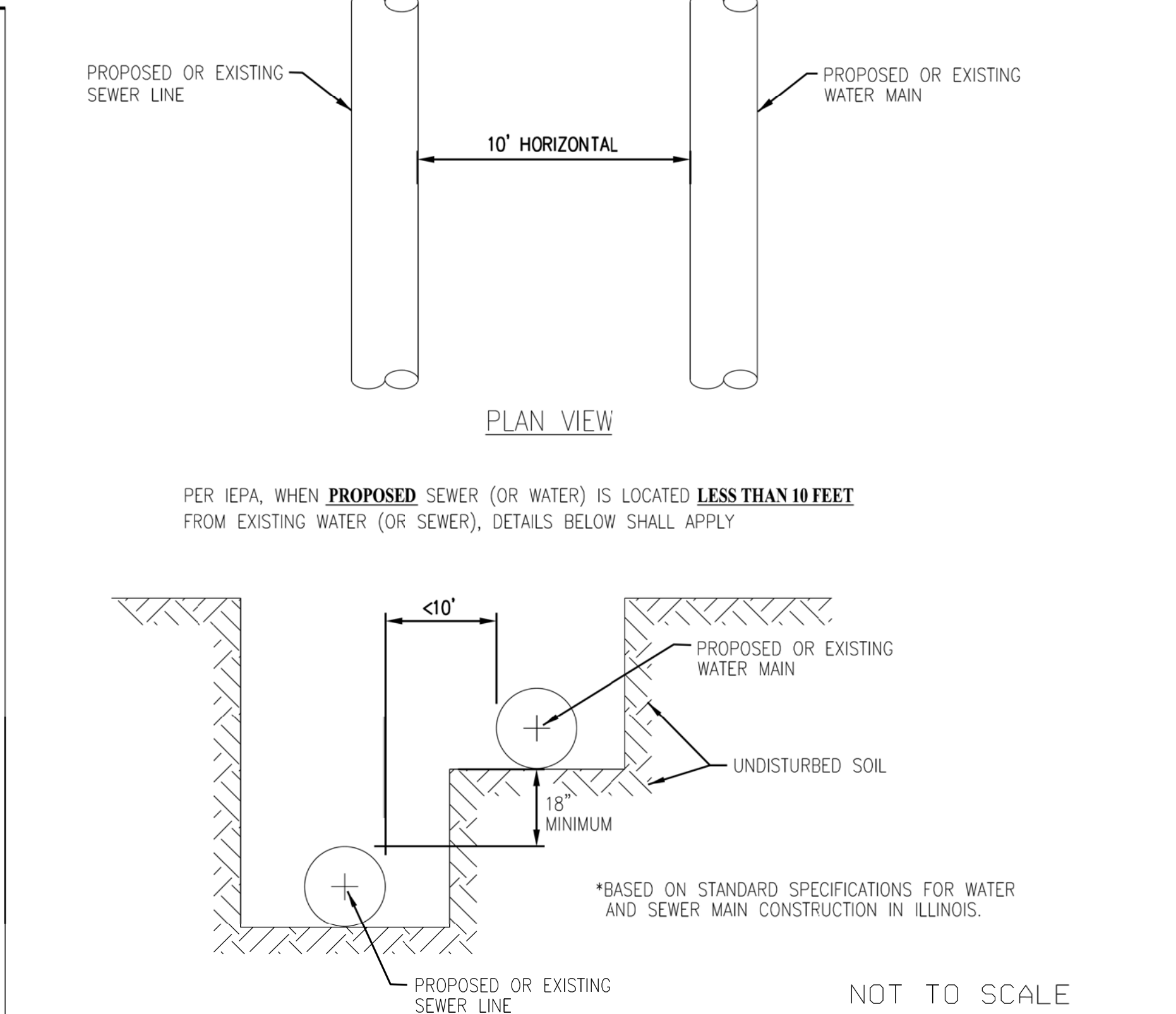
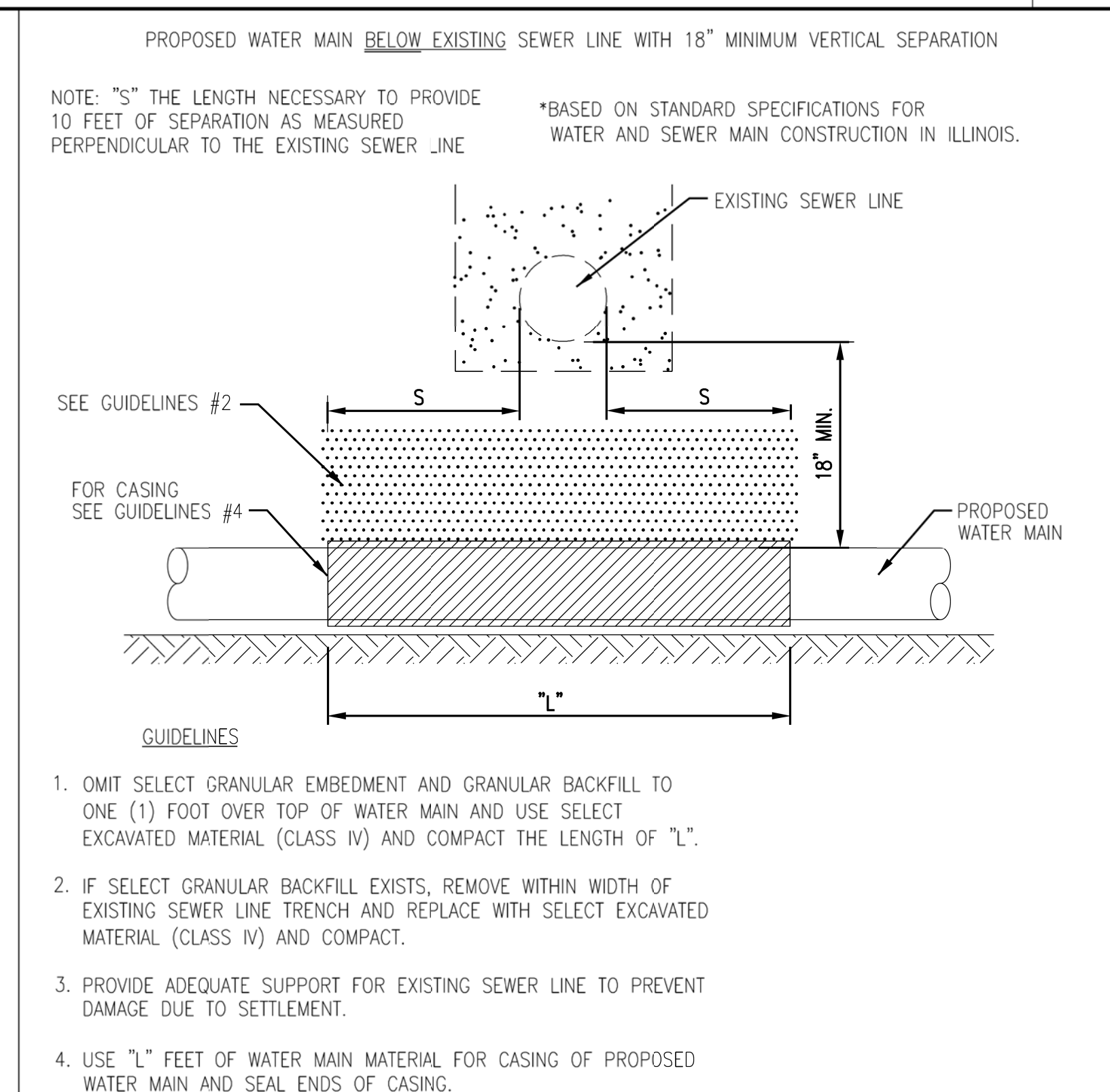
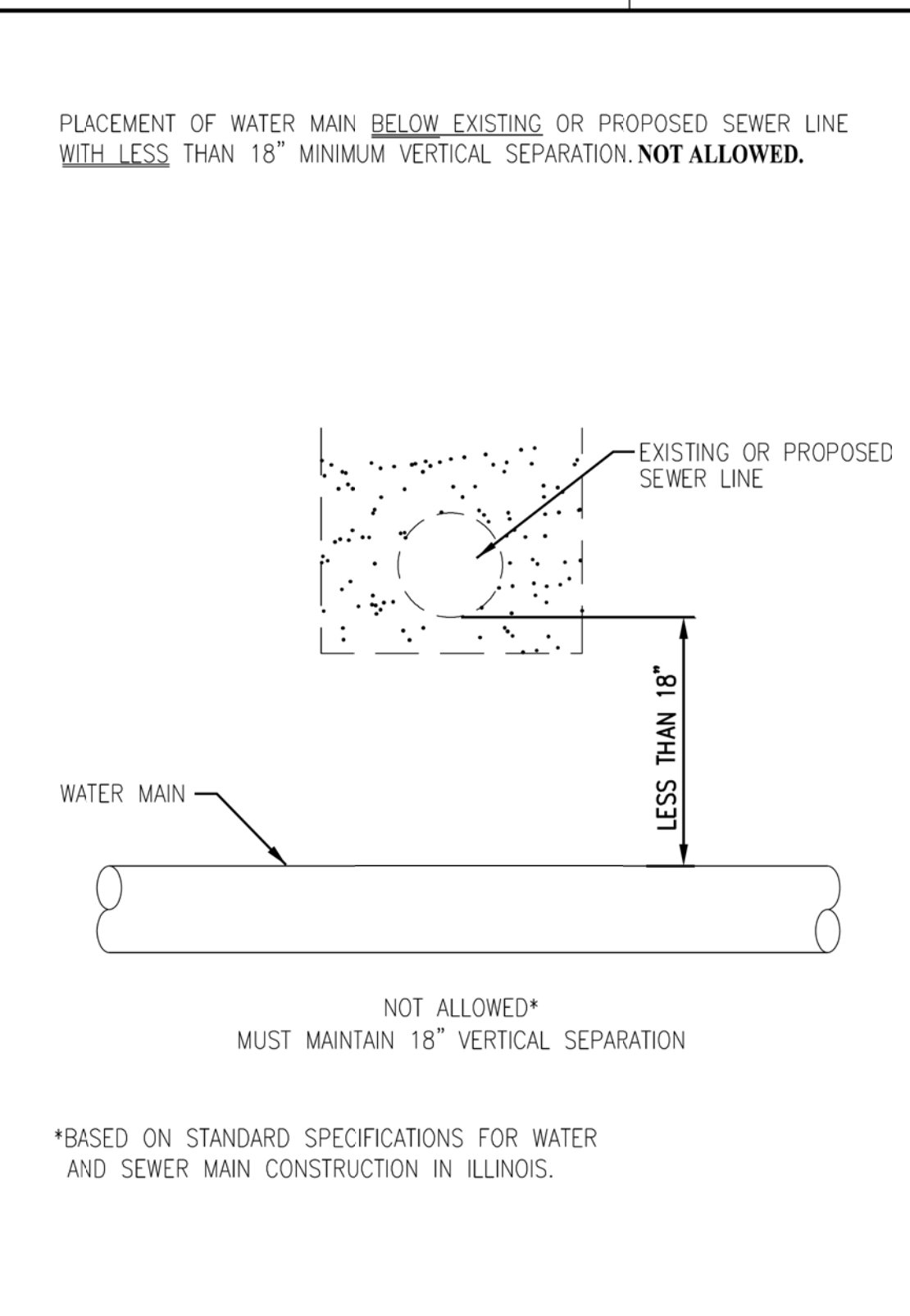
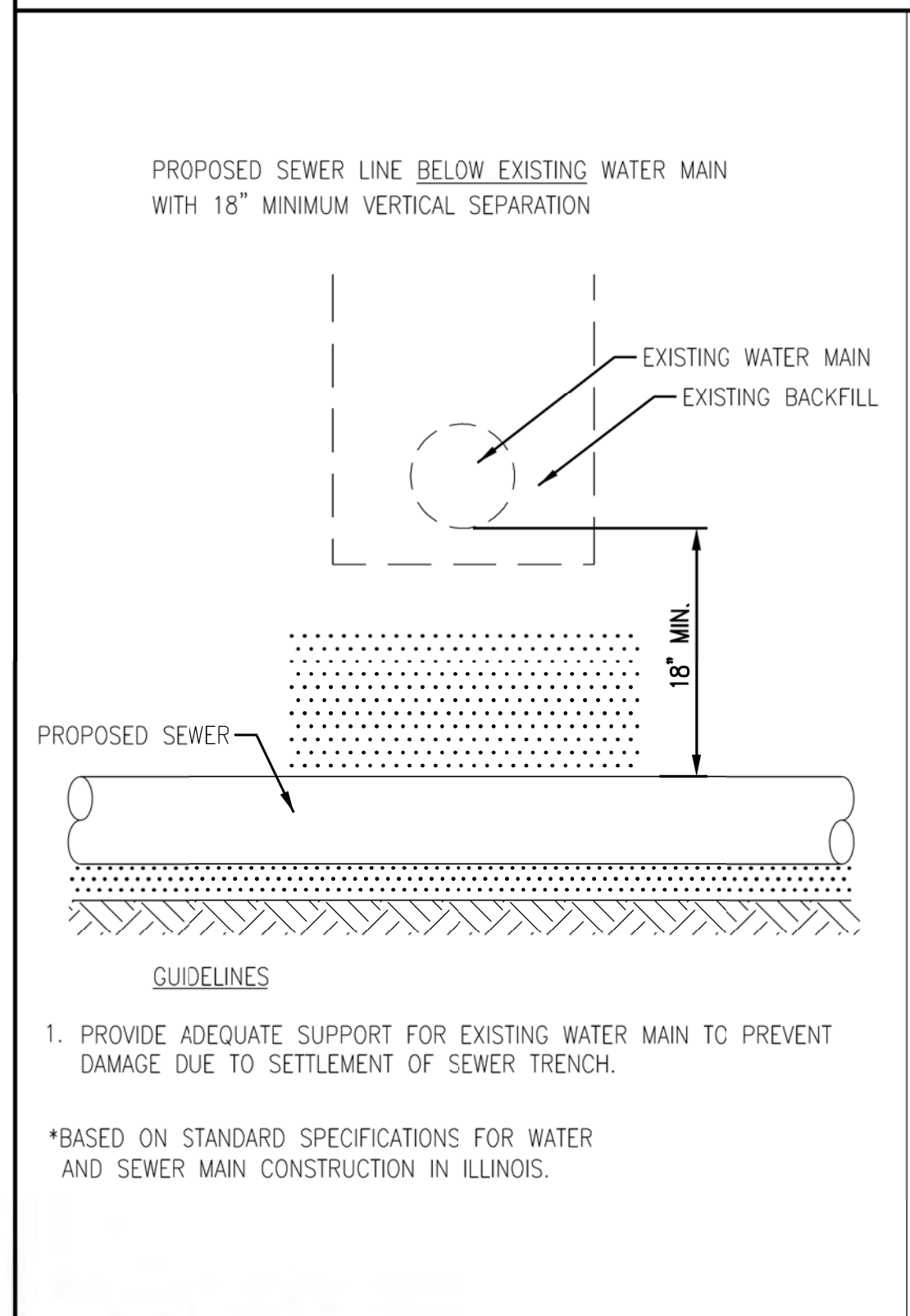
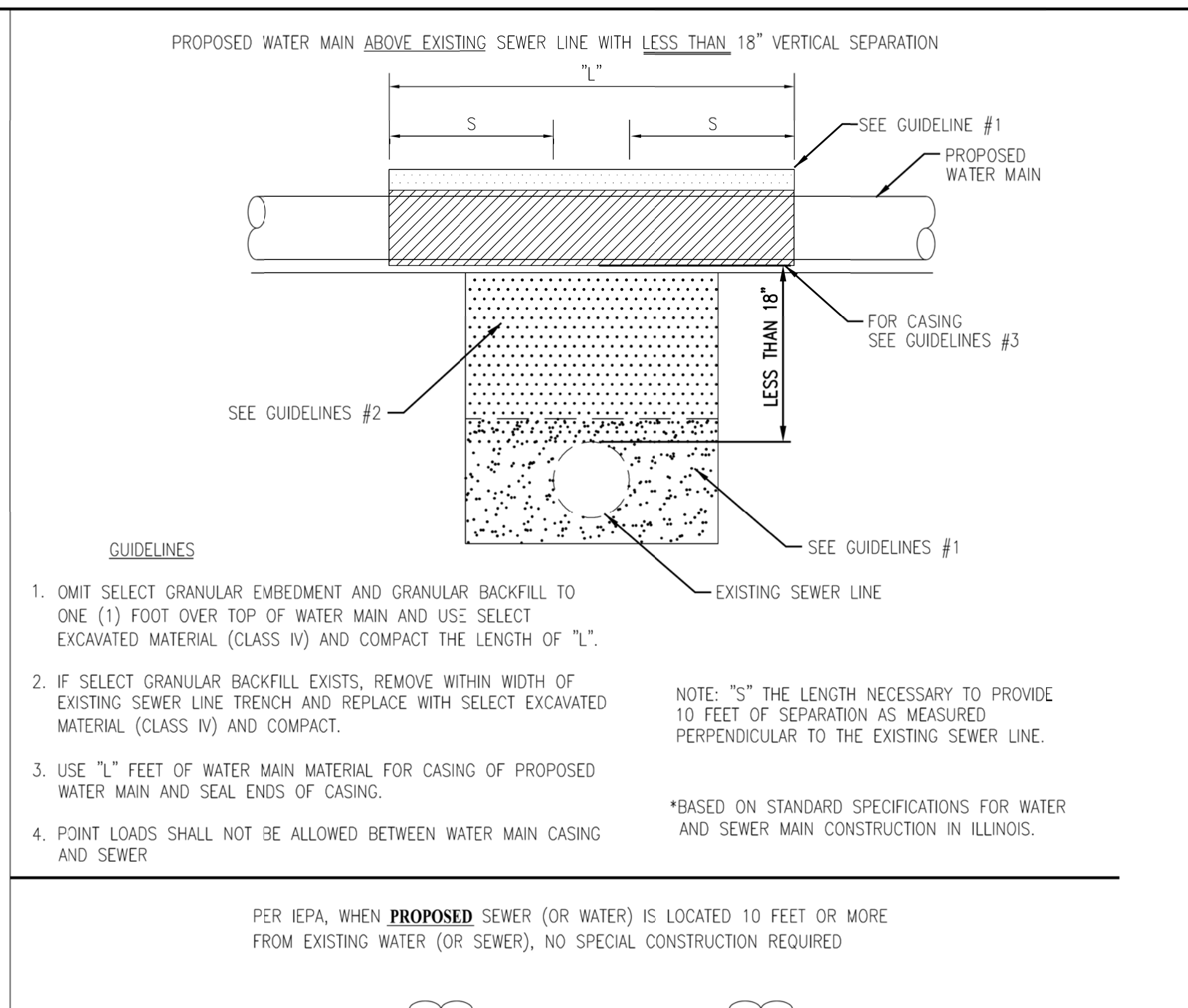
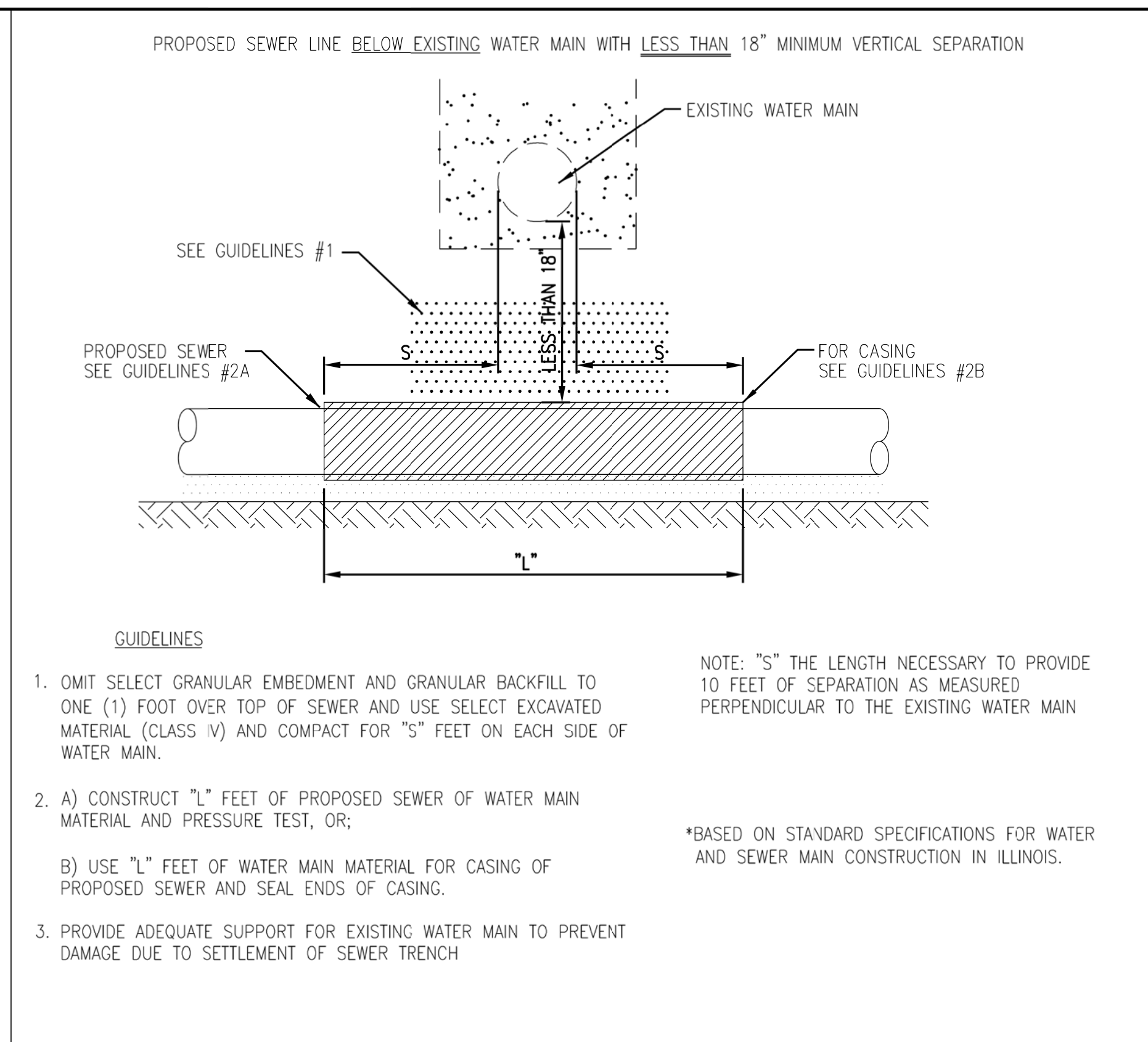
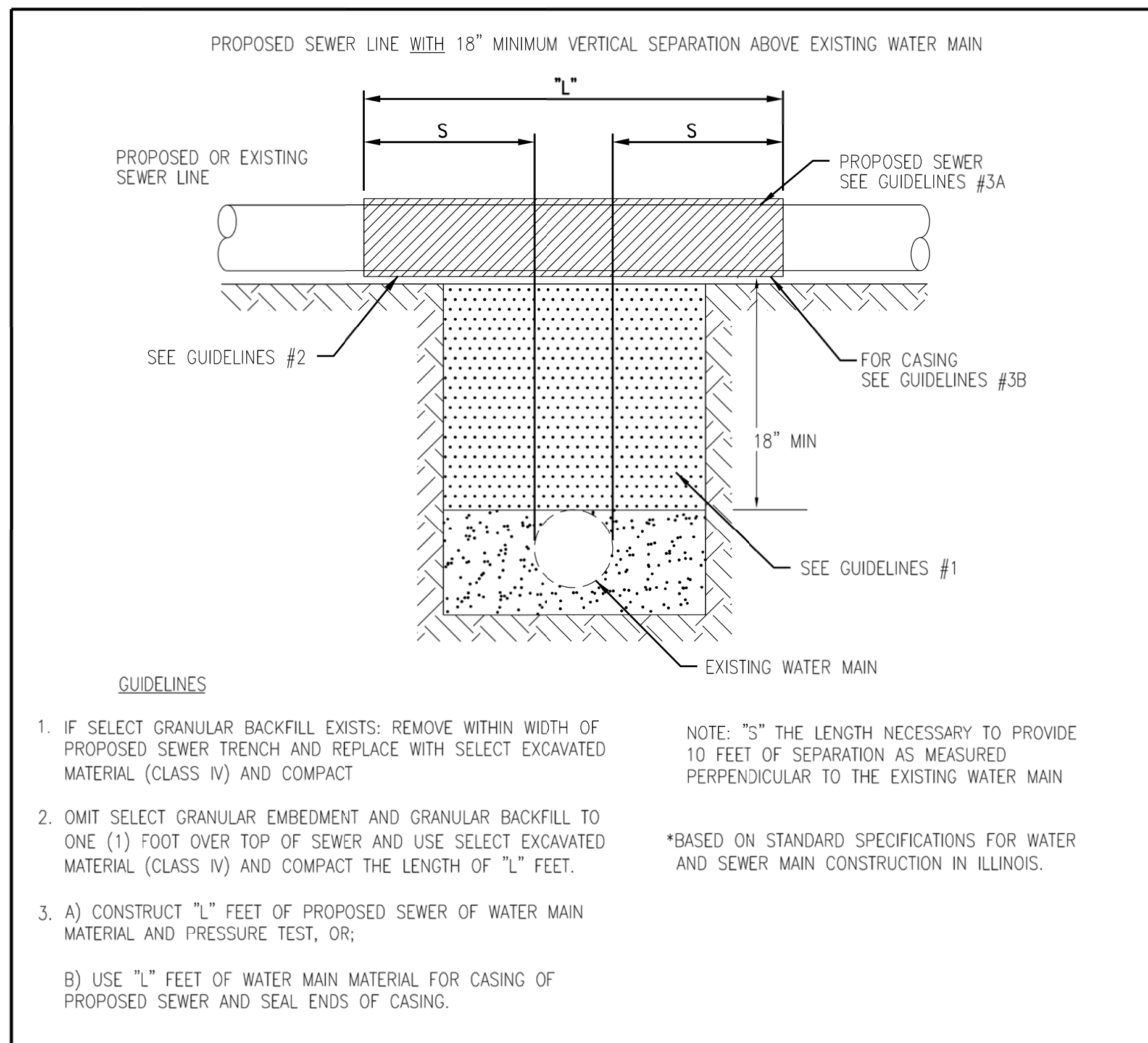
CLIENT: **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

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DWN.	MAK		
CHKD.	LMF		
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TITLE: **WSNSP CONTRACT #3 CONSTRUCTION DETAILS**

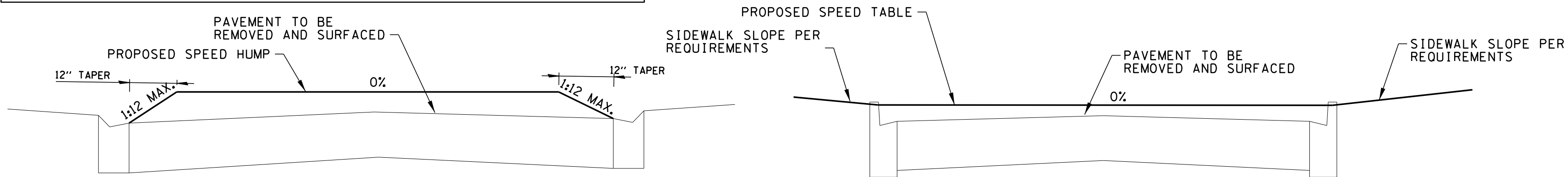
PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 144 OF 207  
 DRAWING NO. **144**





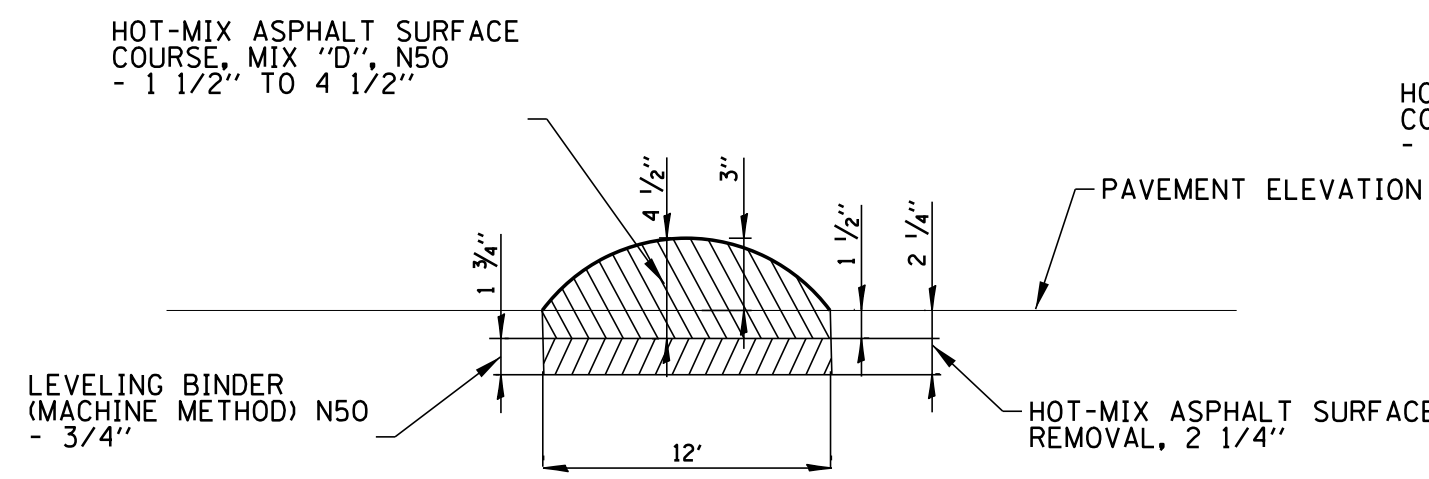
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EXISTING SPEED HUMP/TABLE REMOVAL TO BE PAID FOR AS "PAVEMENT REMOVAL".



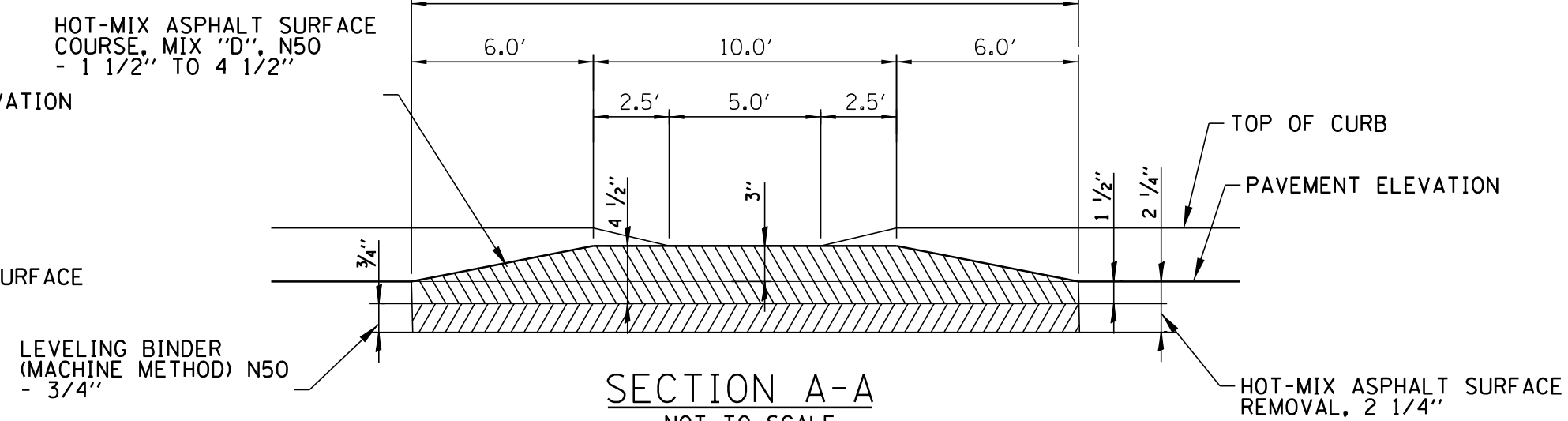
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NOT TO SCALE

SECTION B-B  
NOT TO SCALE



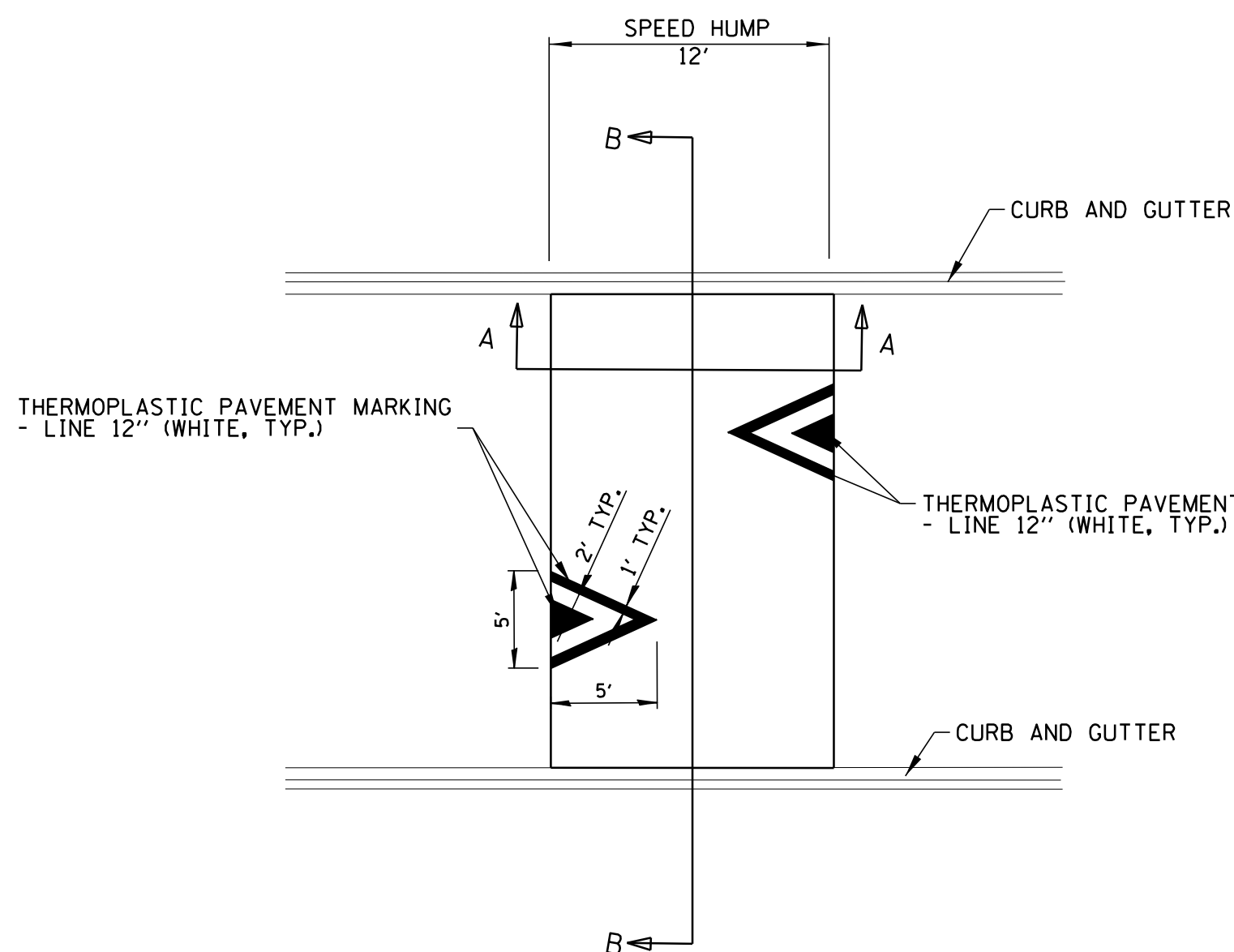
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SPEED HUMP - SECTIONS

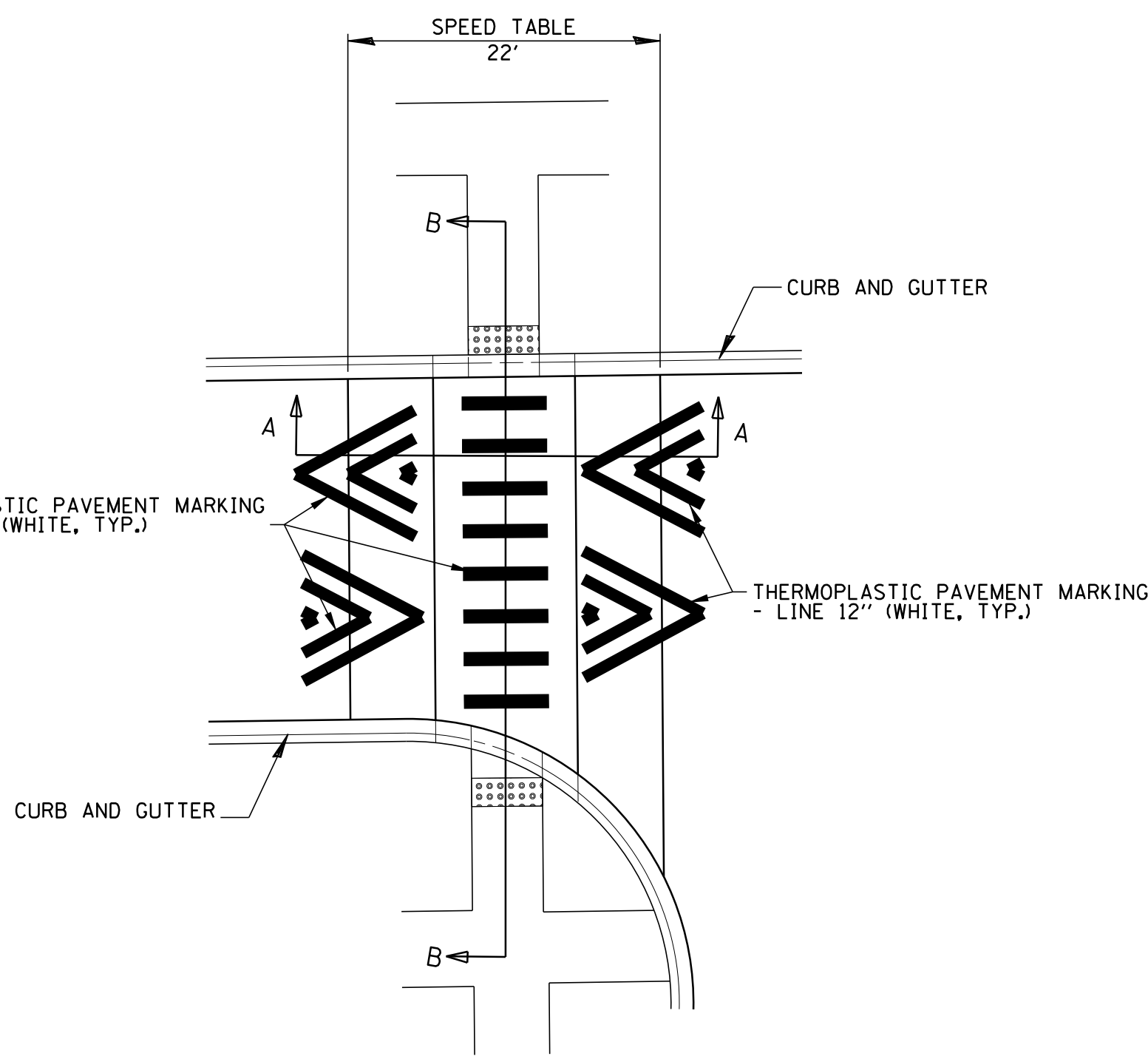


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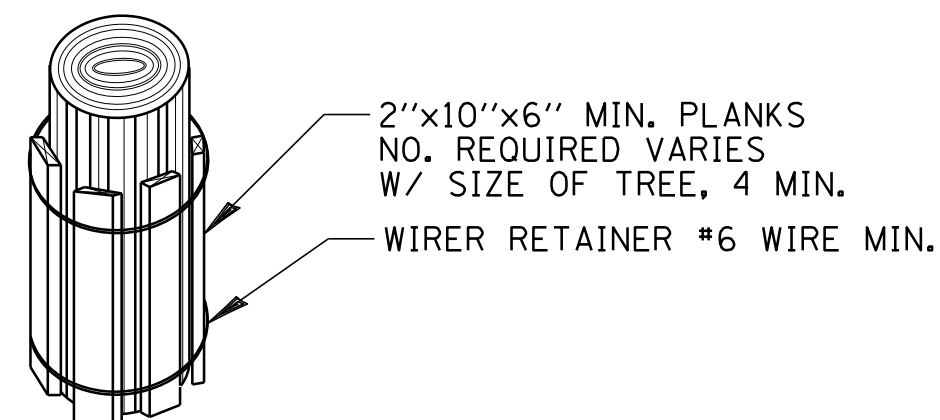
SPEED TABLE - SECTIONS



SPEED HUMP - PLAN  
NOT TO SCALE



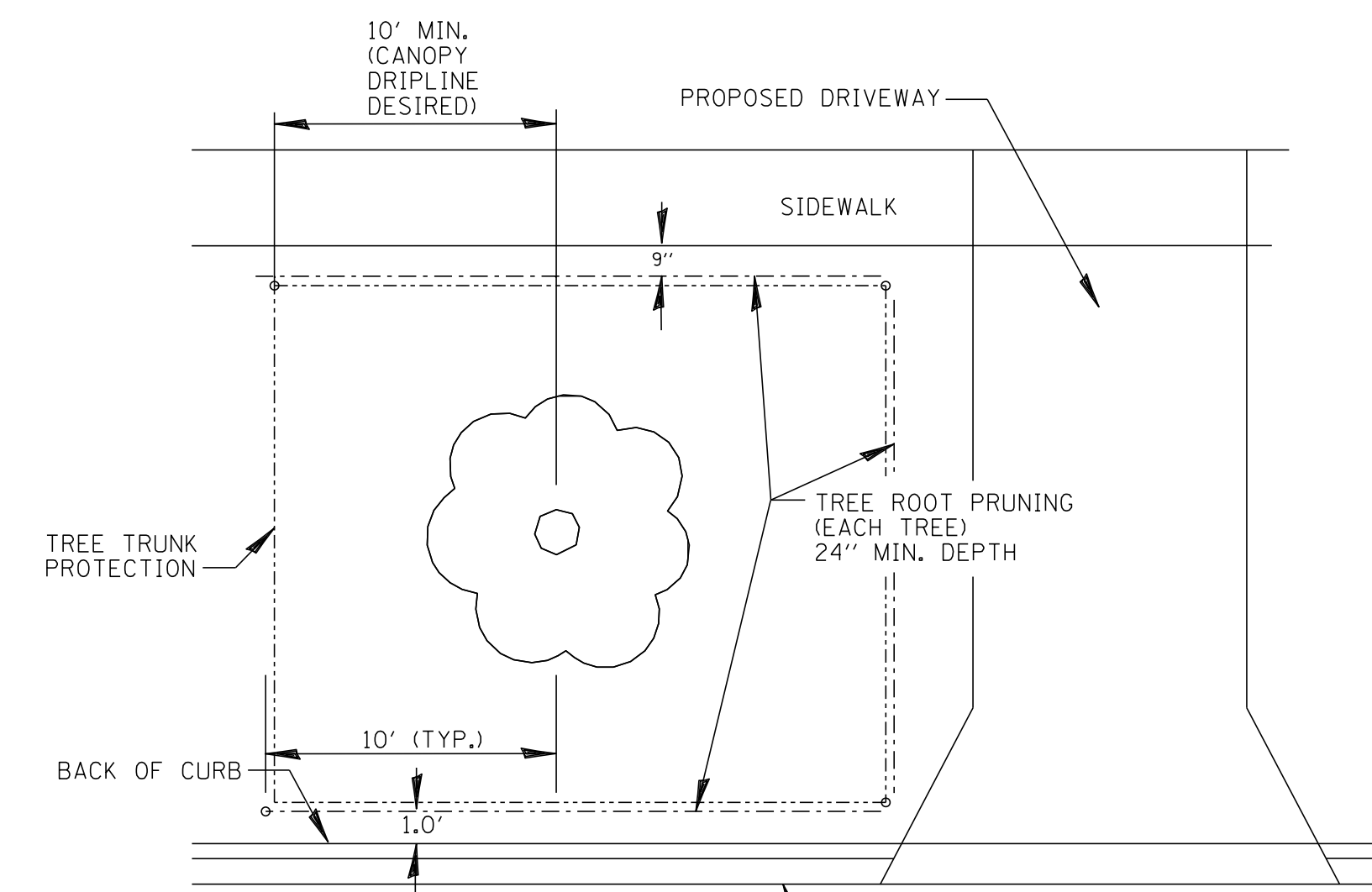
SPEED TABLE - PLAN  
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NOTES:

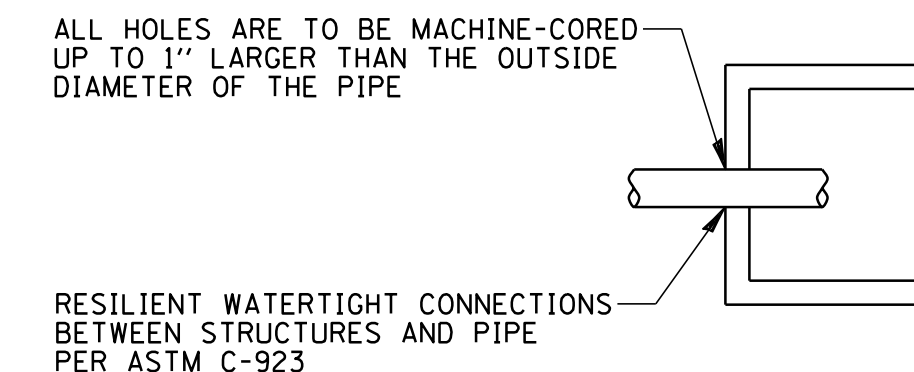
- NUMBER OF REQUIRED PLANKS VARIES W/ SIZE OF THE TREE WITH A MIN. OF 4.
- WRAP BOTH ENDS OF WIRE AROUND BOARDS AND TWIST ENDS TOGETHER AND BEND TWISTED ENDS TOWARD THE TREE.
- TREE PROTECTION TRUNK BOARDING LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AND SHALL BE PAID FOR AS TREE TRUNK PROTECTION (PER EACH).

TREE PROTECTION TRUNK BOARDING DETAIL



TREE & ROOT PROTECTION

NOTE: TREE PROTECTION FENCING SHALL BE 4-SIDED UNLESS VILLAGE FORESTER DIRECTS CONTRACTOR TO INSTALL 3-SIDED IN THE FIELD.

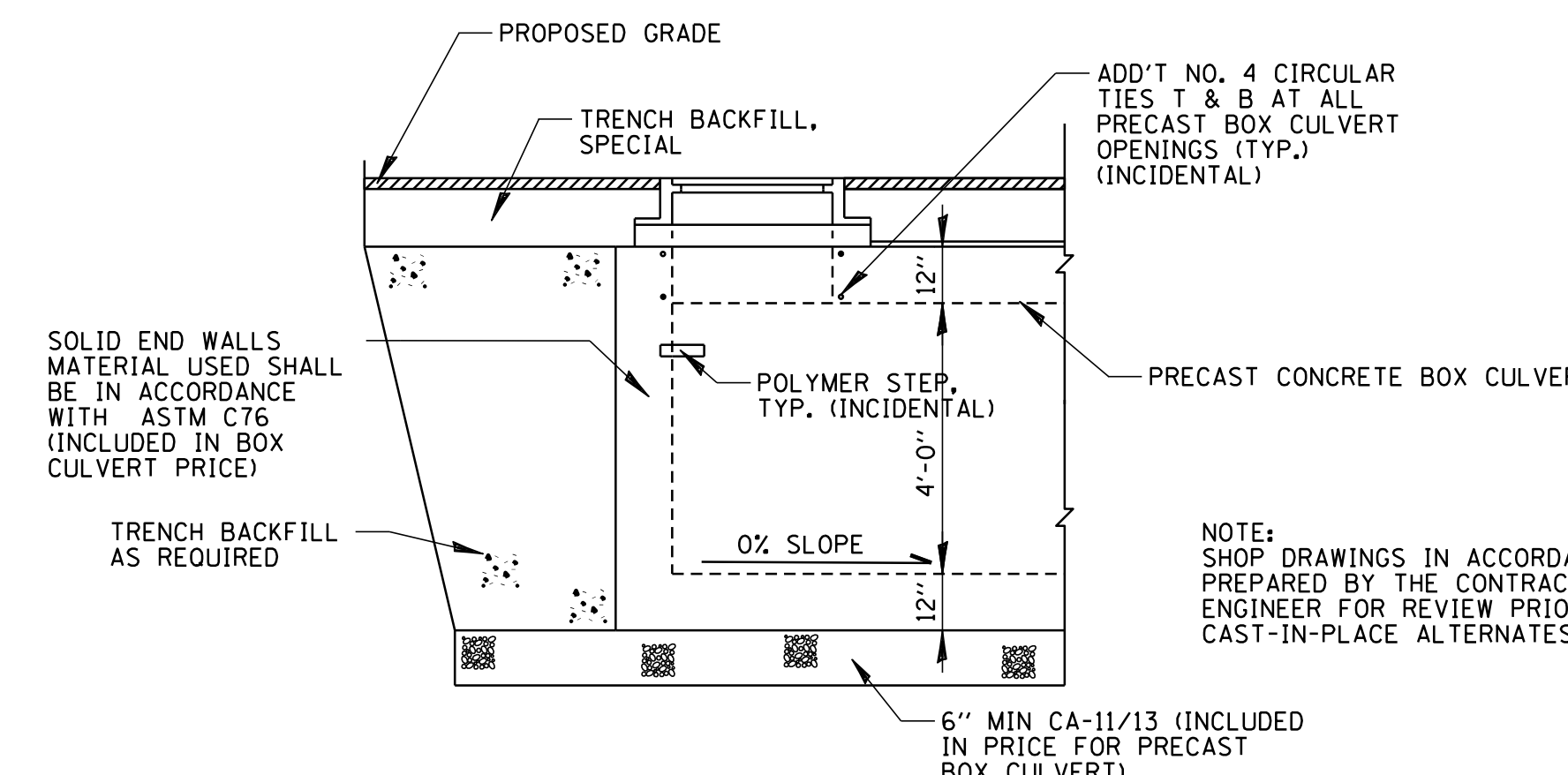


TYPICAL JOINT DETAIL FOR ALL PIPES  
CONNECTED TO THE BOX CULVERT

NOT TO SCALE

REINFORCED CONCRETE BOX CULVERT (RCBC) NOTES:

- ALL RCBC SHALL BE SINGLE CLOSED END WALLS WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE RCBC PAY ITEM.
- ALL WORK SHALL BE IN ACCORDANCE WITH ASTM C890 AND C1577.
- ALL CONNECTIONS SHALL BE RESILIENT WATERTIGHT CONNECTIONS BETWEEN RCBC AND PIPE IN ACCORDANCE WITH ASTM C923.
- CONTRACTOR SHALL PROVIDE, FOR APPROVAL PRIOR TO ORDERING MATERIAL, SHOP DRAWINGS FOR ALL RCBC, ADDITIONAL SHOP DRAWINGS, AS NECESSARY, SHALL BE PROVIDED FOR THE SOLID END WALL PIECES.



TYPICAL DETAIL FOR BACKFILLING  
BOX CULVERT  
NOT TO SCALE

NOTE: SHOP DRAWINGS IN ACCORDANCE WITH ACI 315 SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION/CONSTRUCTION. CAST-IN-PLACE ALTERNATES WILL BE CONSIDERED.

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

**BAXTER & WOODMAN**  
Consulting Engineers

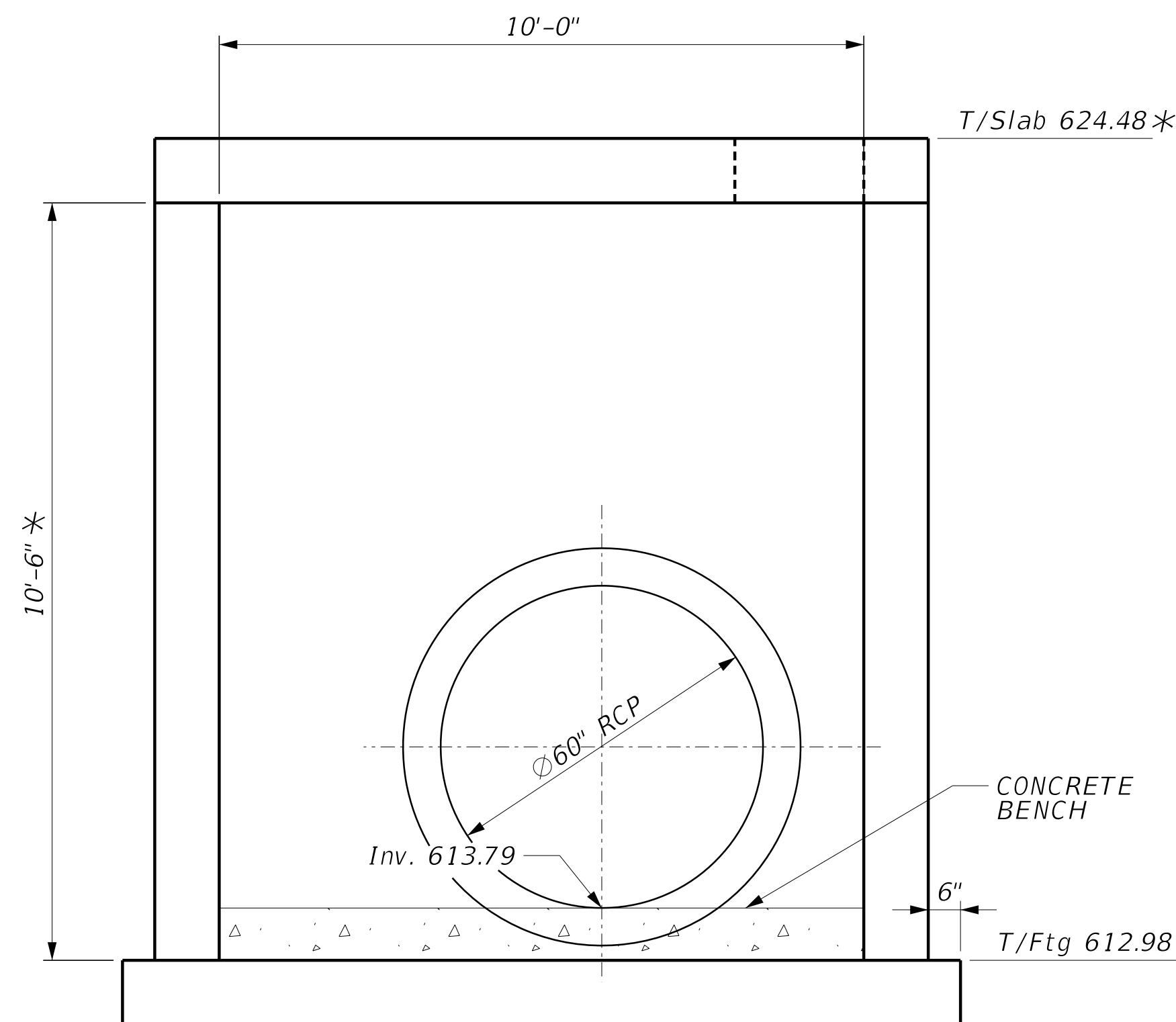


**Village of Wilmette**  
1200 WILMETTE AVENUE  
WILMETTE, IL 60091-0040

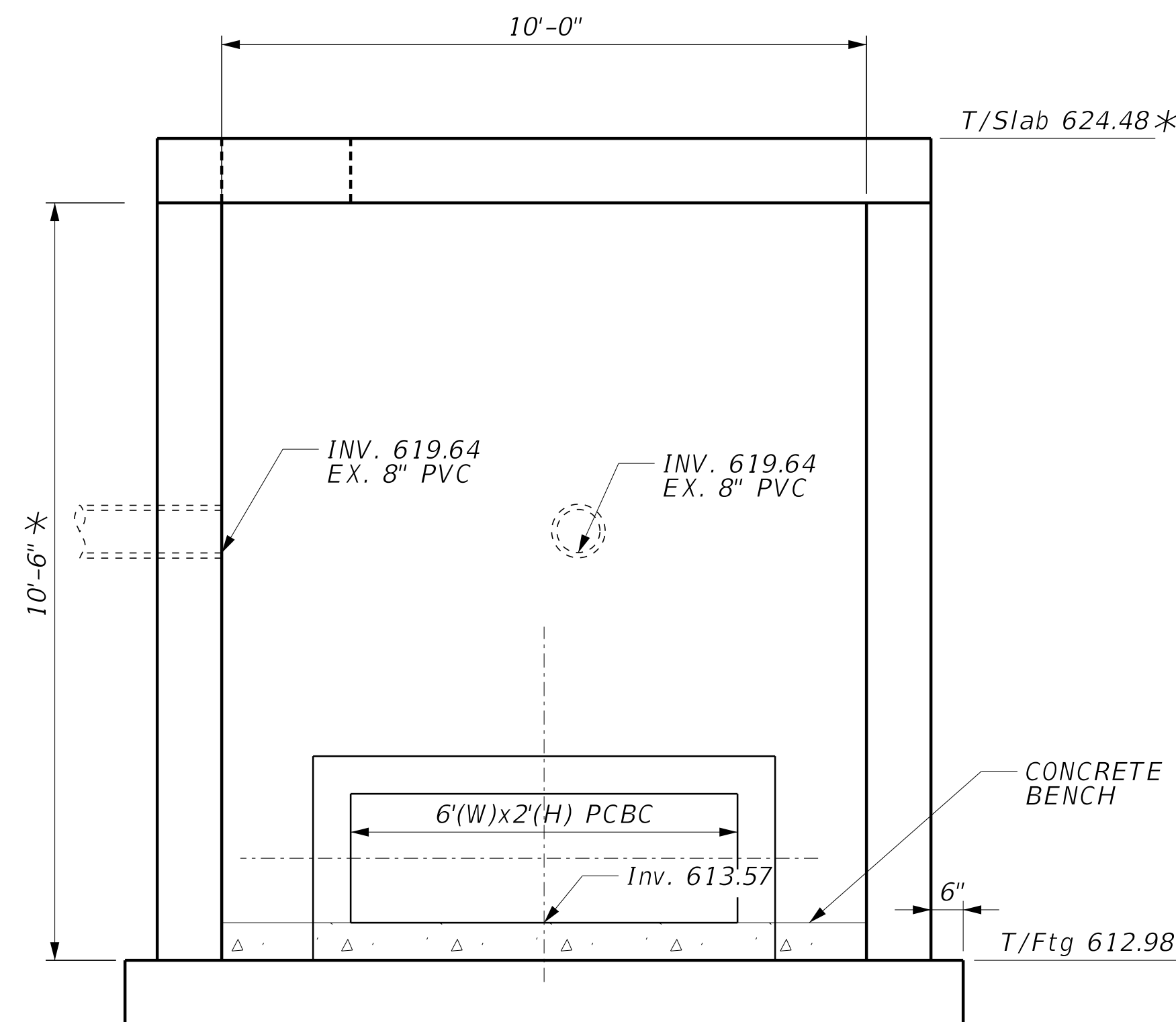
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TITLE: **WSNSP CONTRACT #3  
CONSTRUCTION DETAILS**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 146 OF 207  
DRAWING NO. **146**



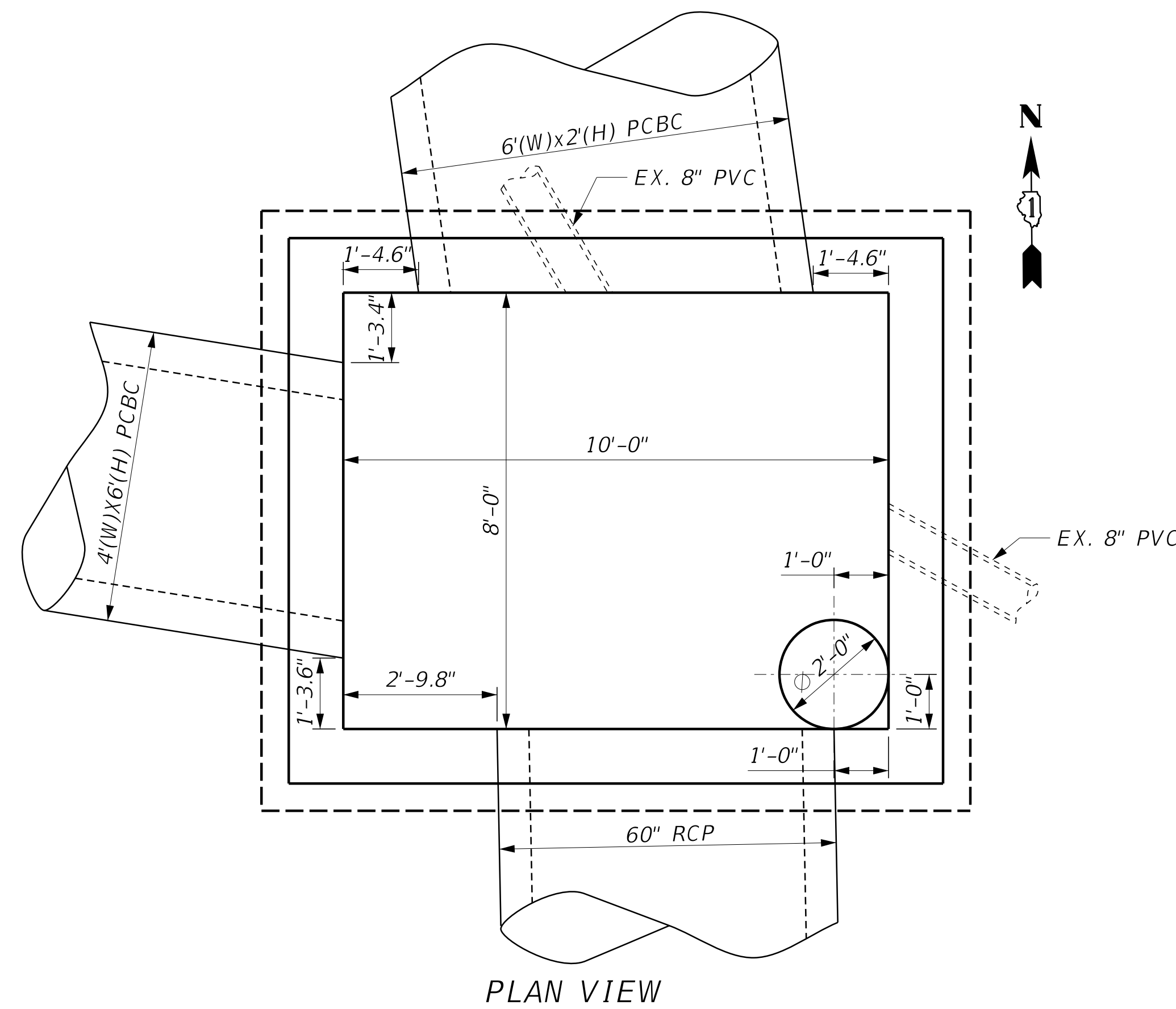
**SOUTH ELEVATION**



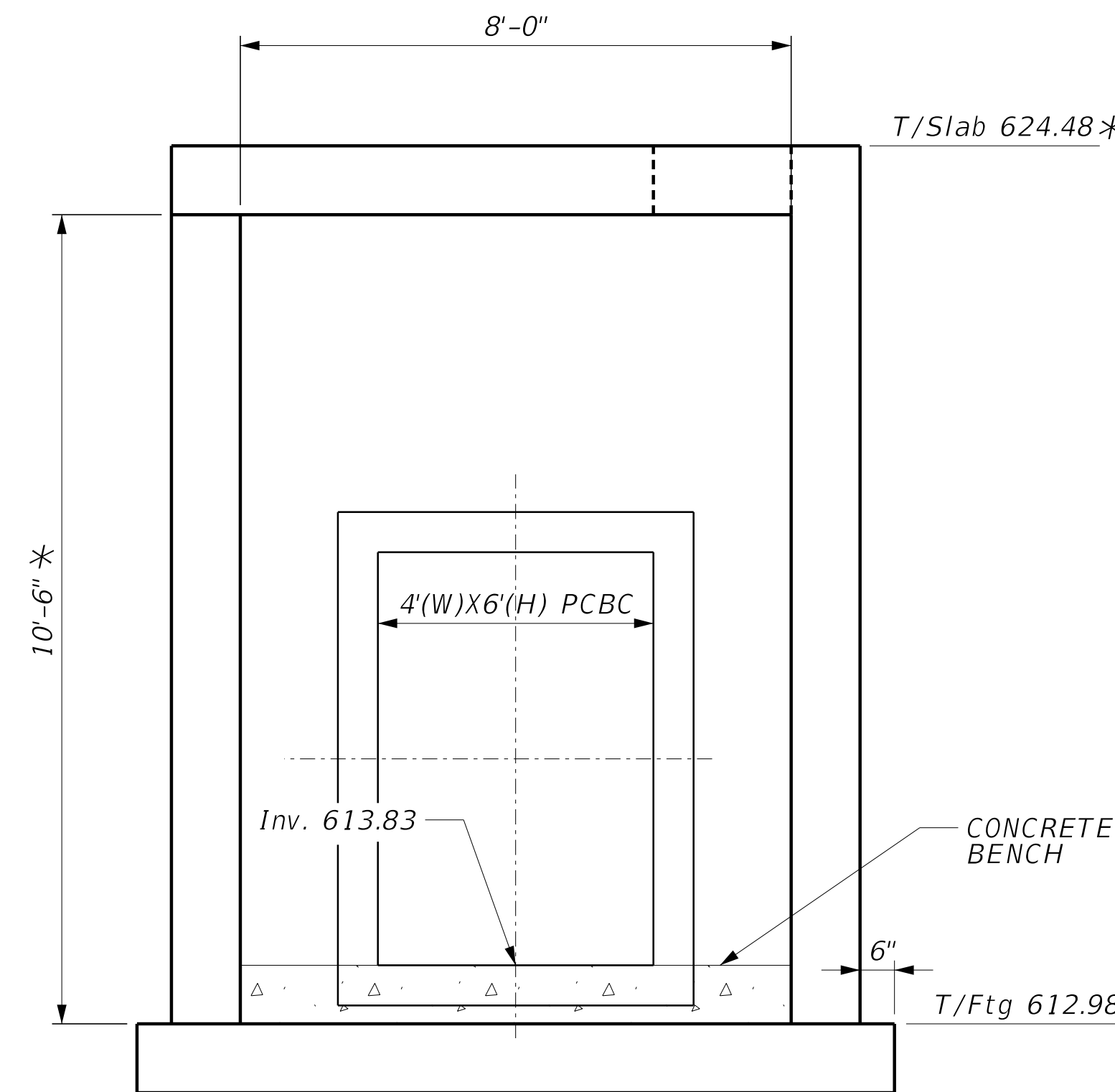
**NORTH ELEVATION**

NOTE:  
PLEASE SEE SPECIFICATION FOR JUNCTION CHAMBER NO. 1 AND JUNCTION CHAMBER NO. 2. THESE STRUCTURES ARE PERFORMANCE BASED SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE THICKNESSES OF ALL SLAB AND WALLS AND REINFORCEMENT DETAILS. SHOP DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

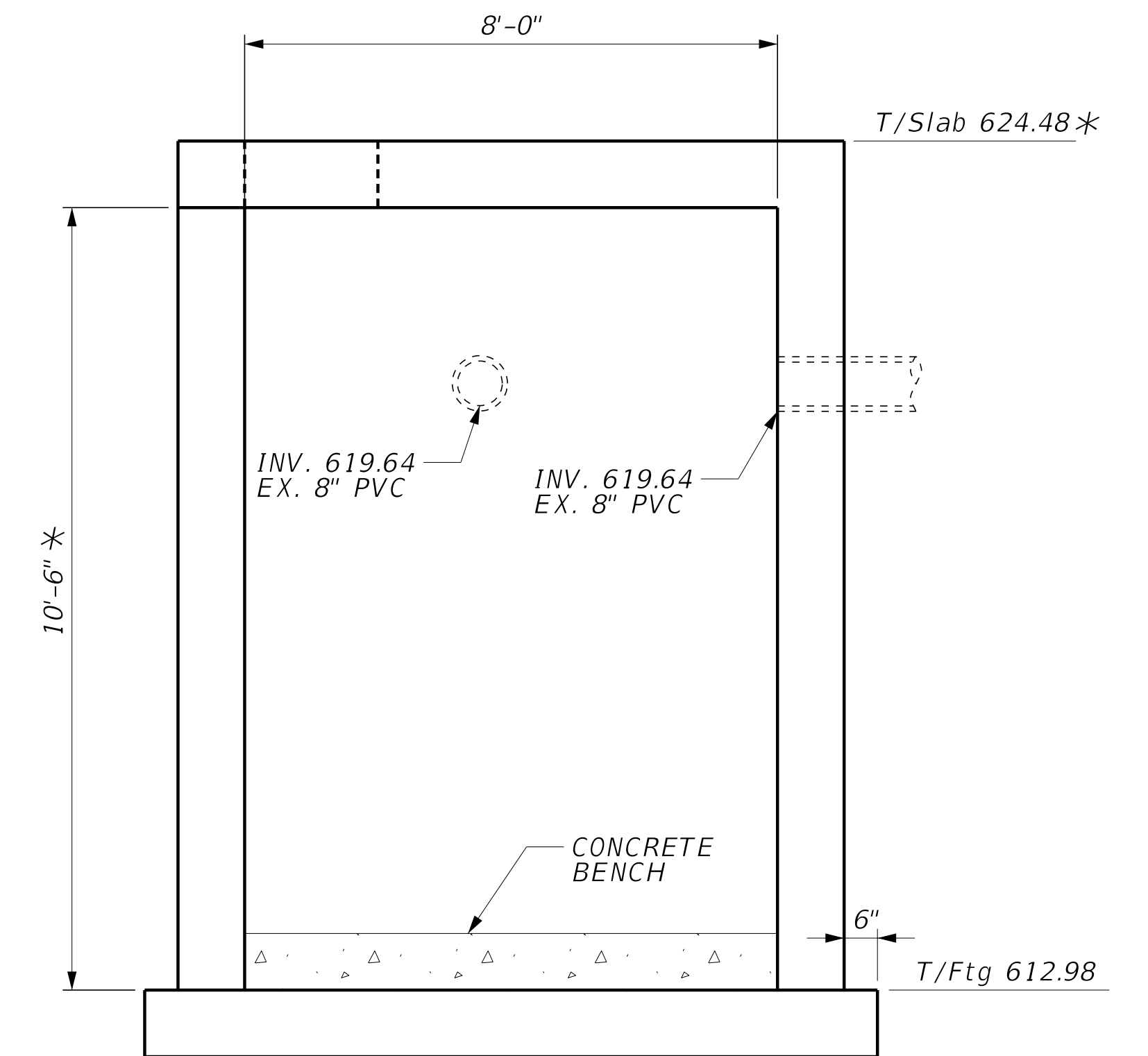
\* TOP OF SLAB ELEVATIONS AND INSIDE HEIGHT MAYBE ADJUSTED BY THE CONTRACTOR.



**PLAN VIEW**

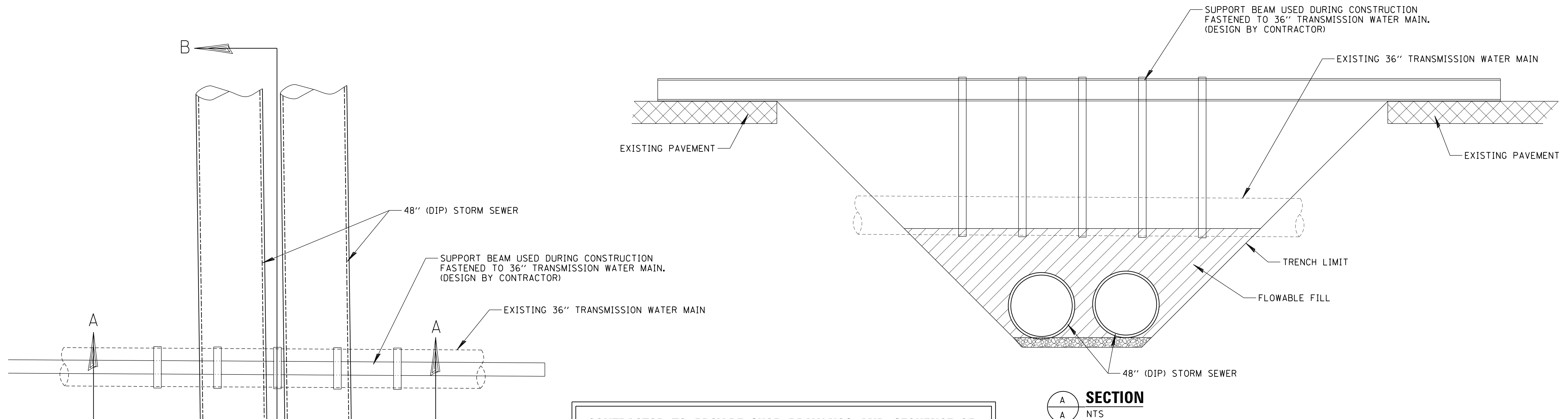


**WEST ELEVATION**



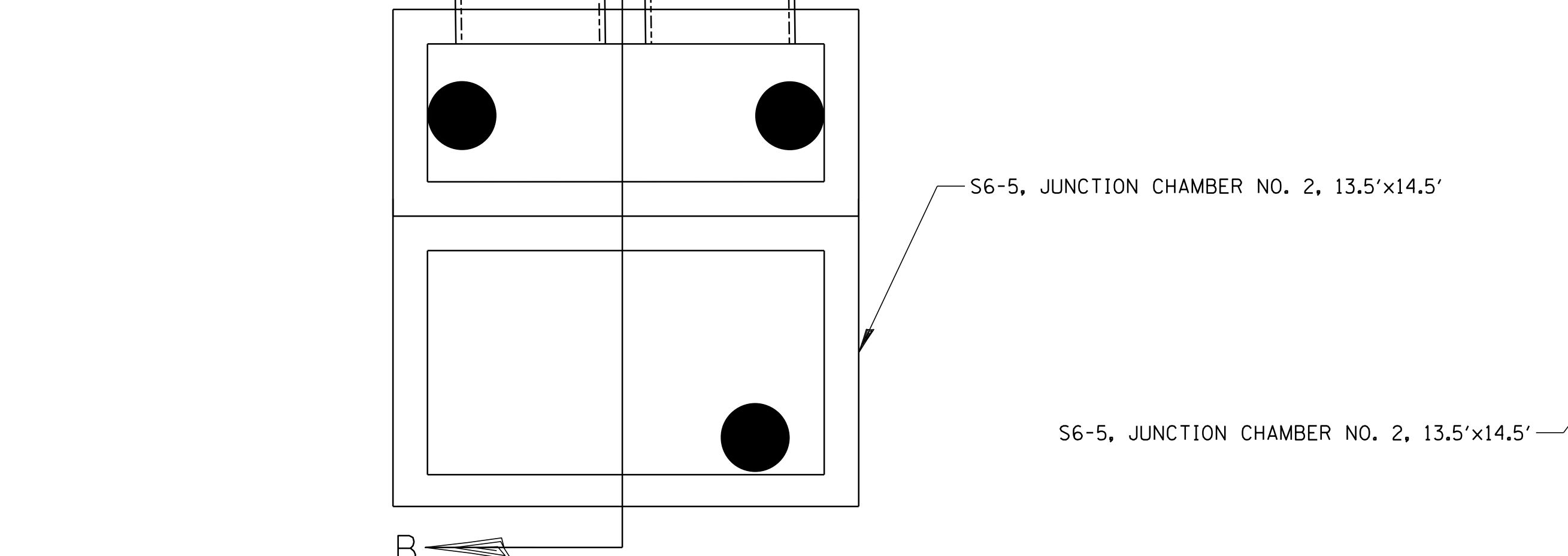
**EAST ELEVATION**

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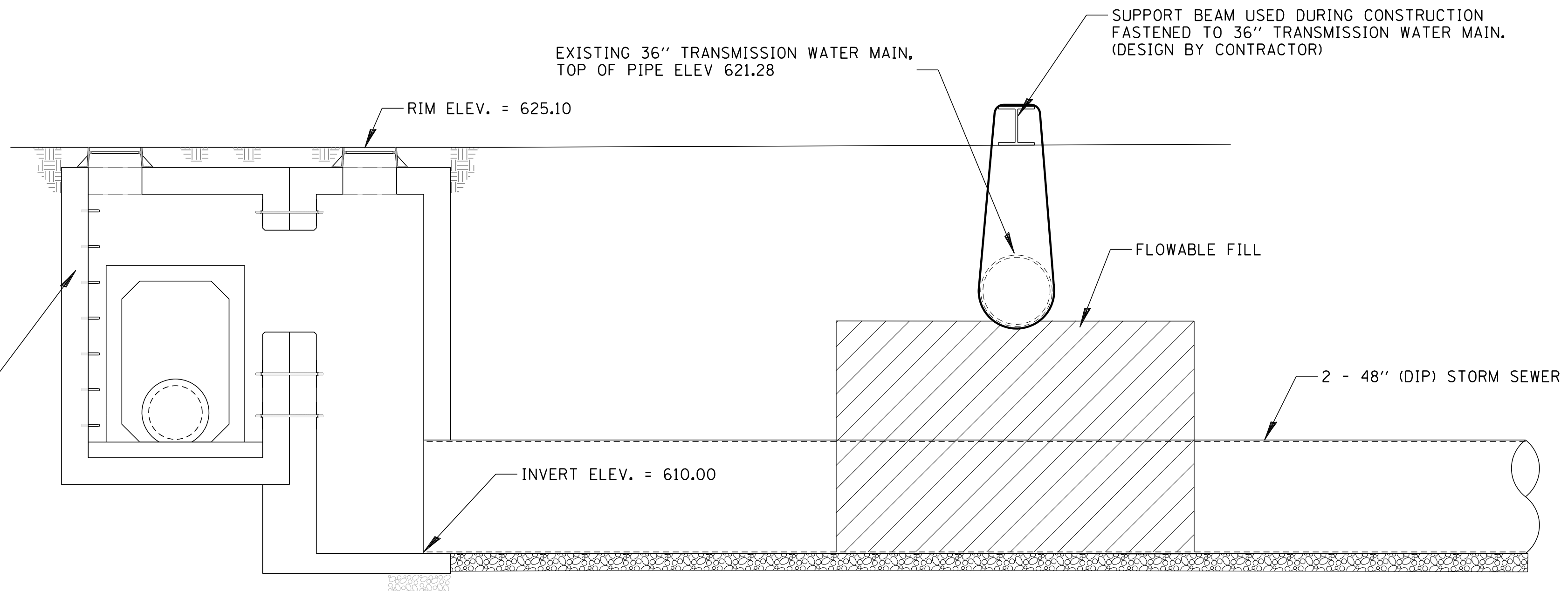


**CONTRACTOR TO PROVIDE SHOP DRAWINGS AND SEQUENCE OF SUPPORT INSTALLATION PROCESS FOR REVIEW. CONTRACTOR MUST SUPPORT THE 36" TRANSMISSION WATER MAIN PRIOR TO EXCAVATION FOR THE 2 - 48" (DIP) STORM SEWER. SUPPORT BEAM USED DURING CONSTRUCTION FASTENED TO THE 36" TRANSMISSION WATER MAIN TO BE DESIGNED BY THE CONTRACTOR AND PROVIDE SHOP DRAWINGS FOR REVIEW.**

**SECTION A**  
NTS



**48" (DIP) STROM SEWER UNDER 36" TRANSMISSION WATER MAIN PLAN**  
NTS



**SECTION B**  
NTS

NO.	DATE	REVISION	CHKD.	MODEL:
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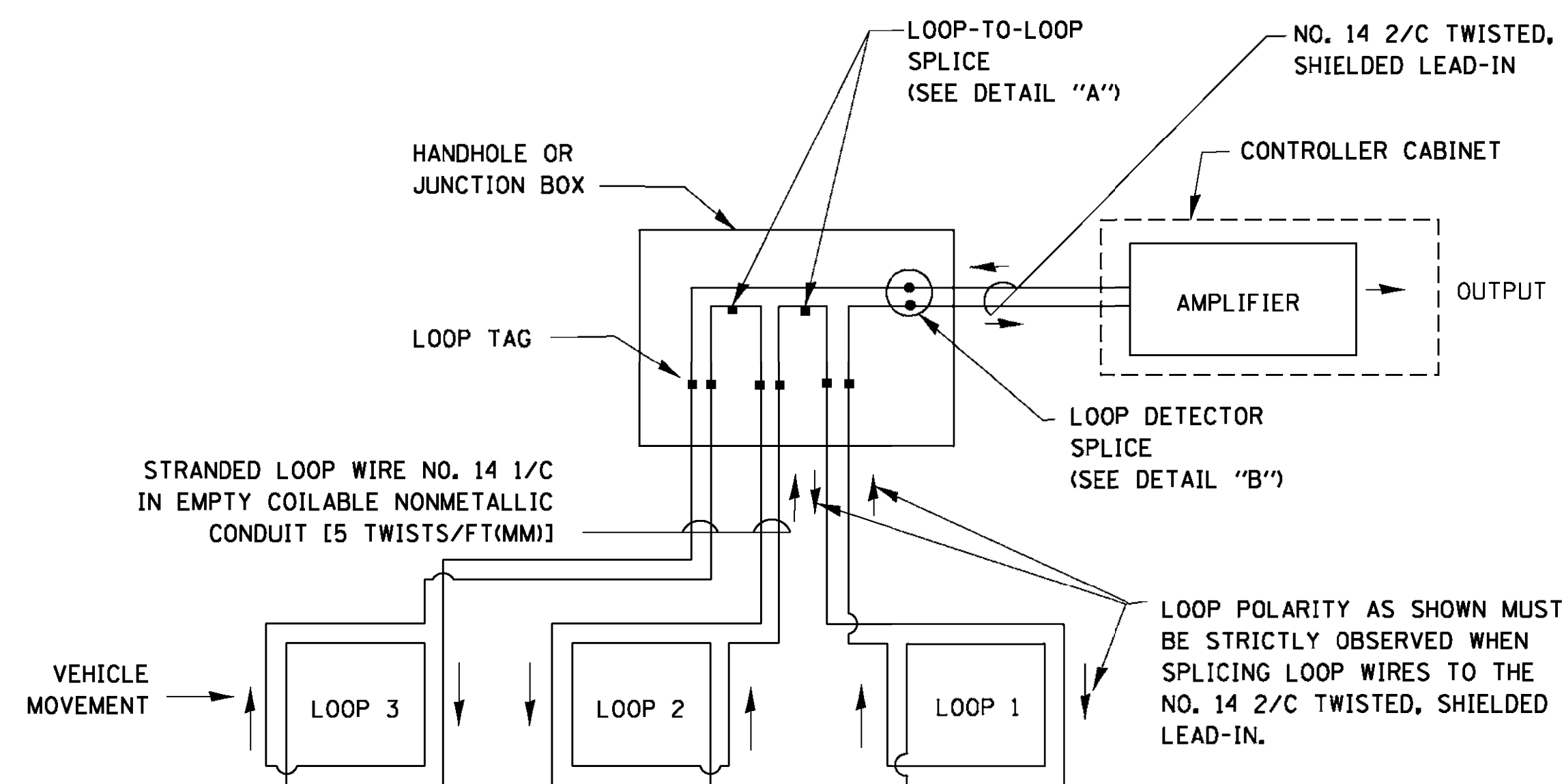
# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	 	 
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	  	  
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	   	   
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

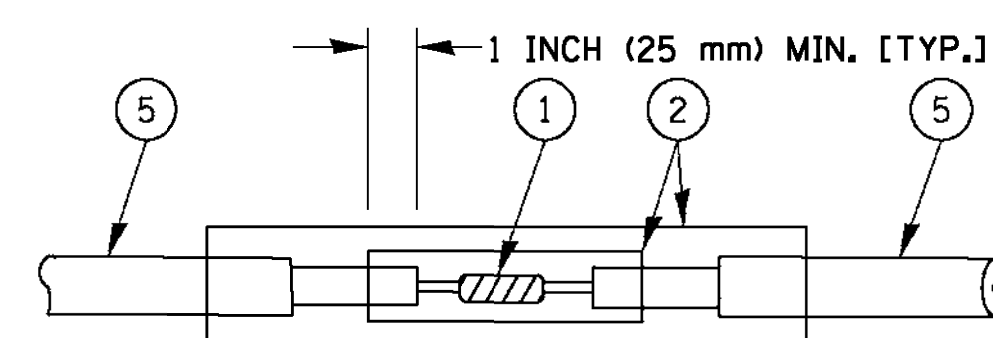
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

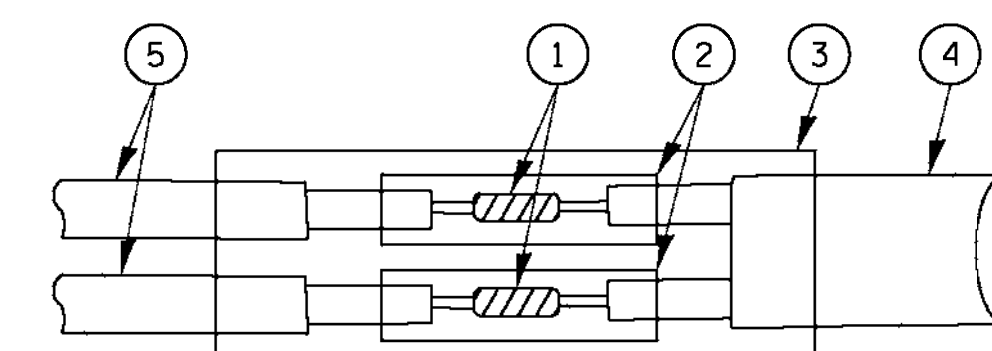


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



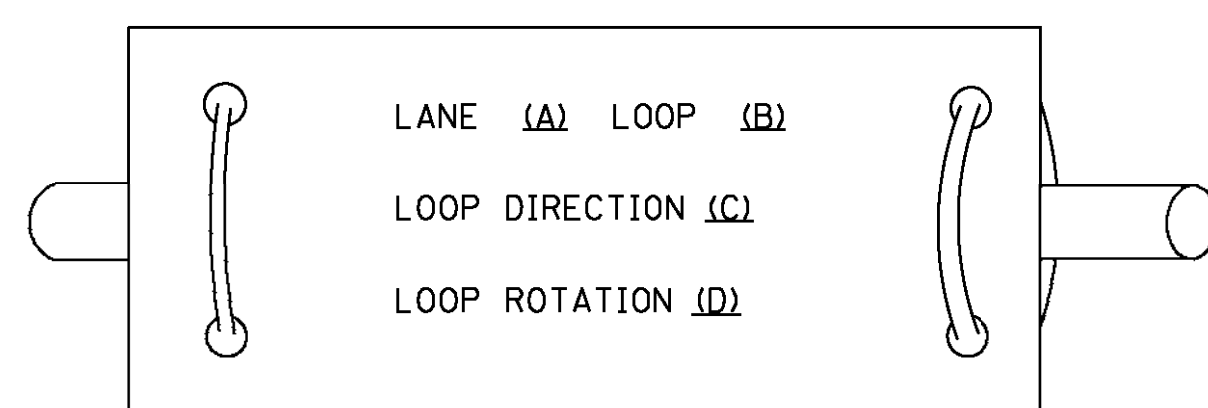
DETAIL "A"  
LOOP-TO-LOOP SPLICE



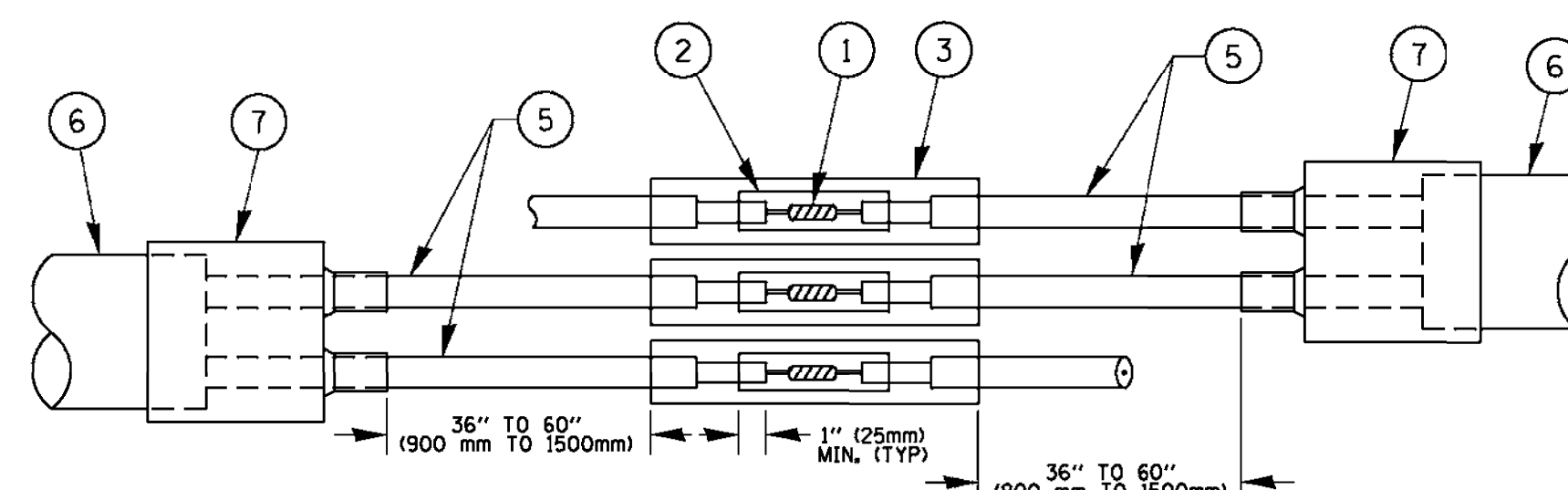
DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**

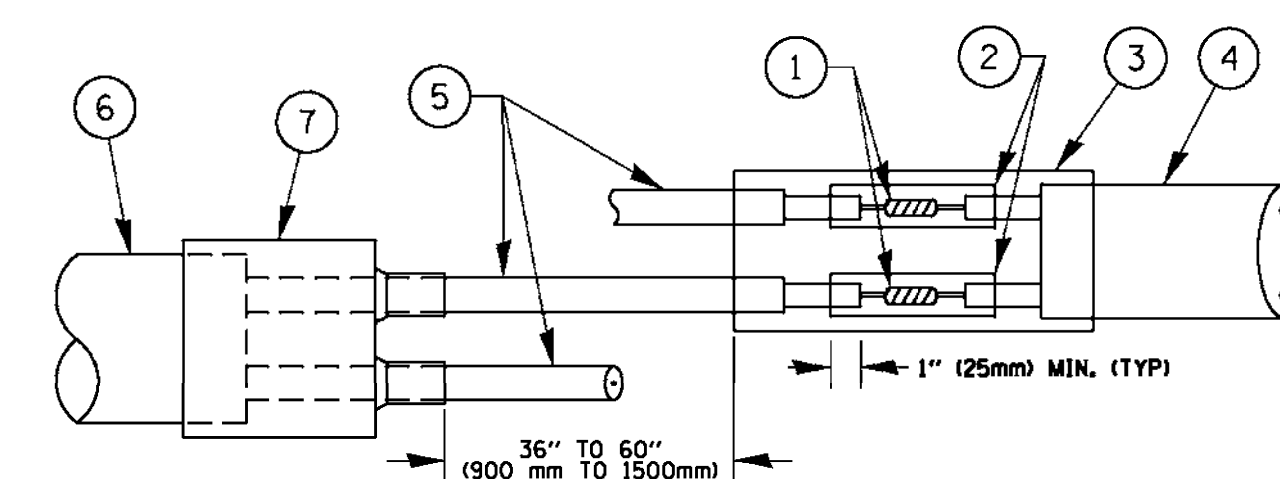
**LOOP LEAD-IN CABLE TAG**



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**LOOP DETECTOR SPLICE**

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PREFORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

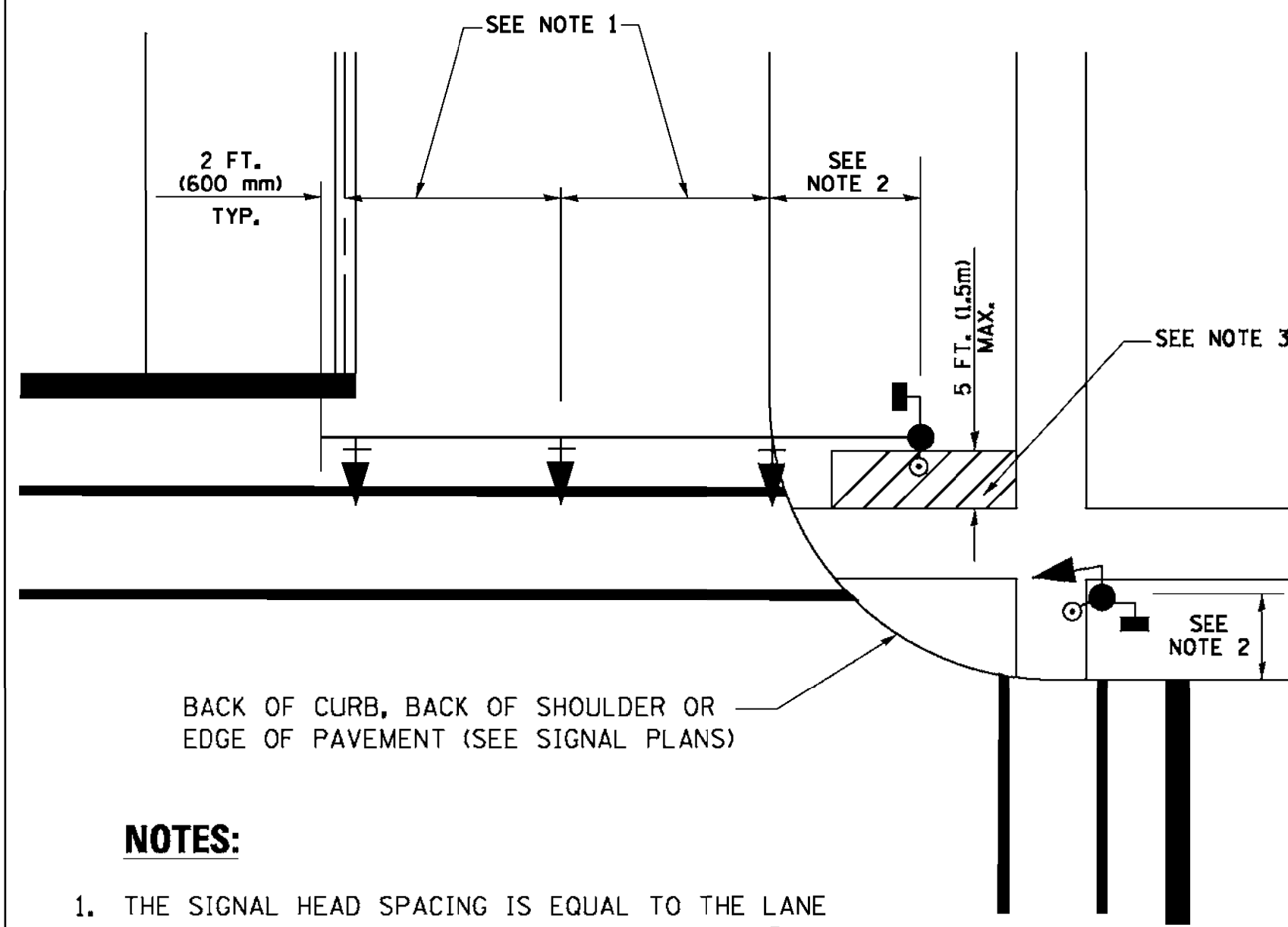
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05	COOK	207	150
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		

PKC00000

10/8/2021

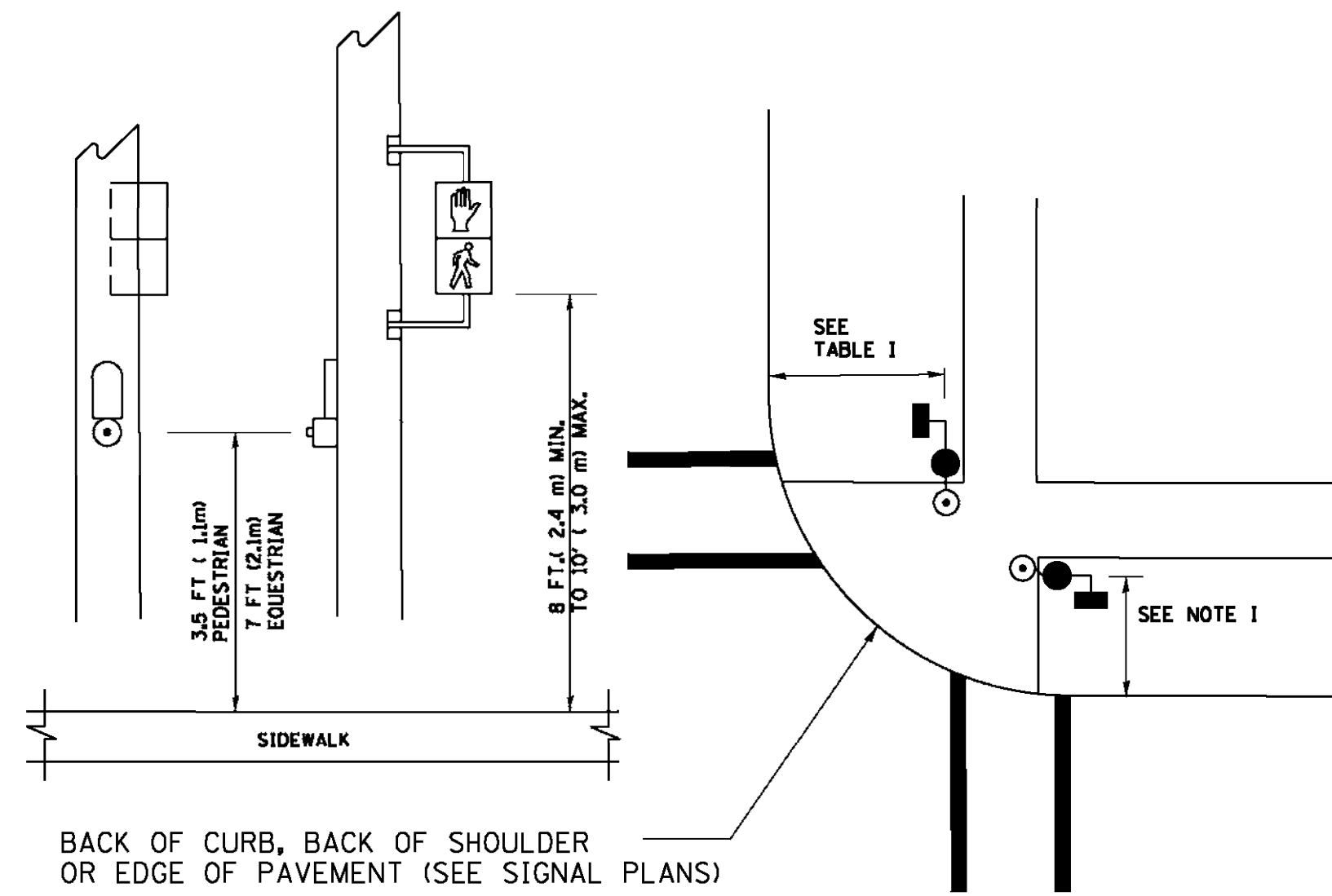
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

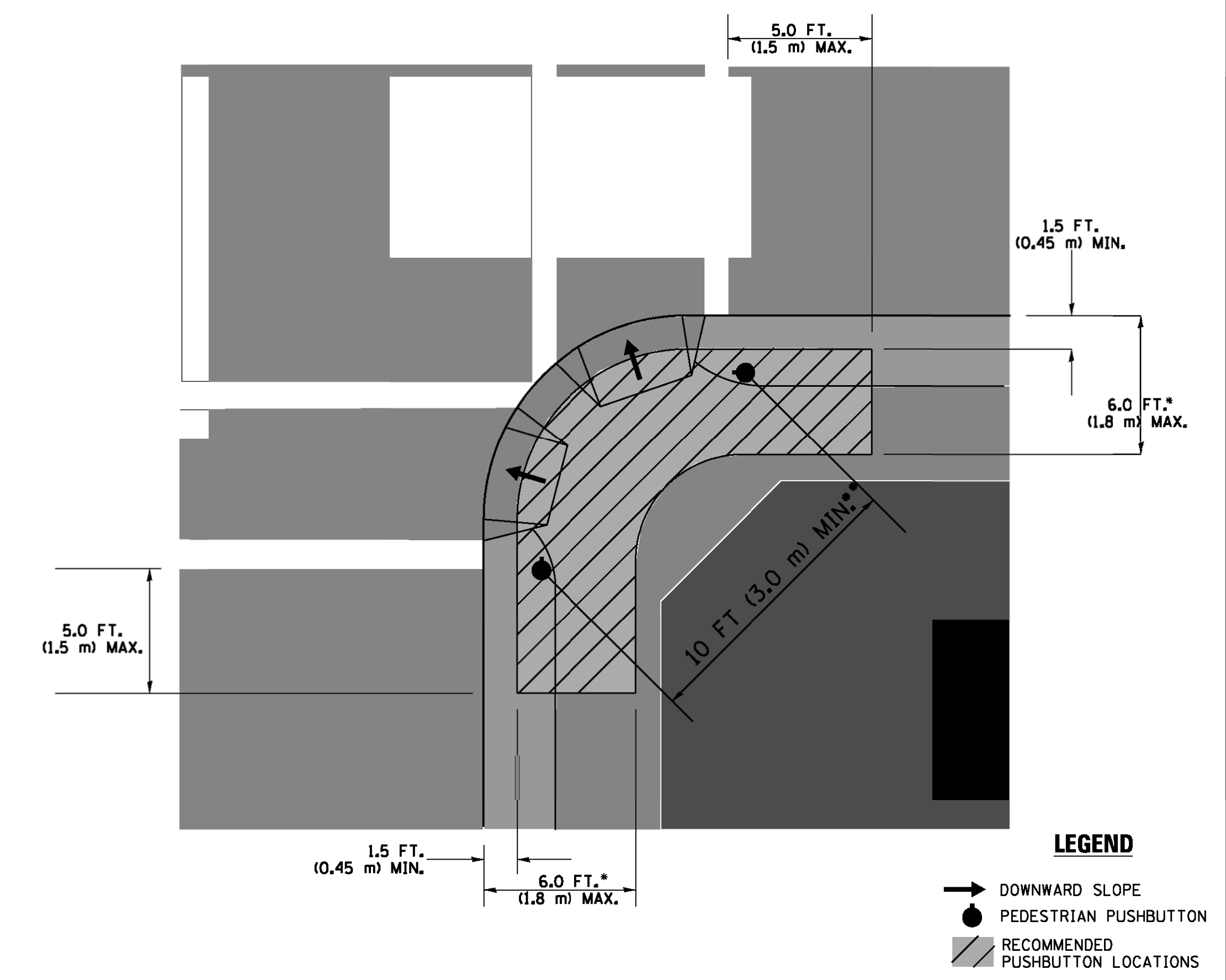
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

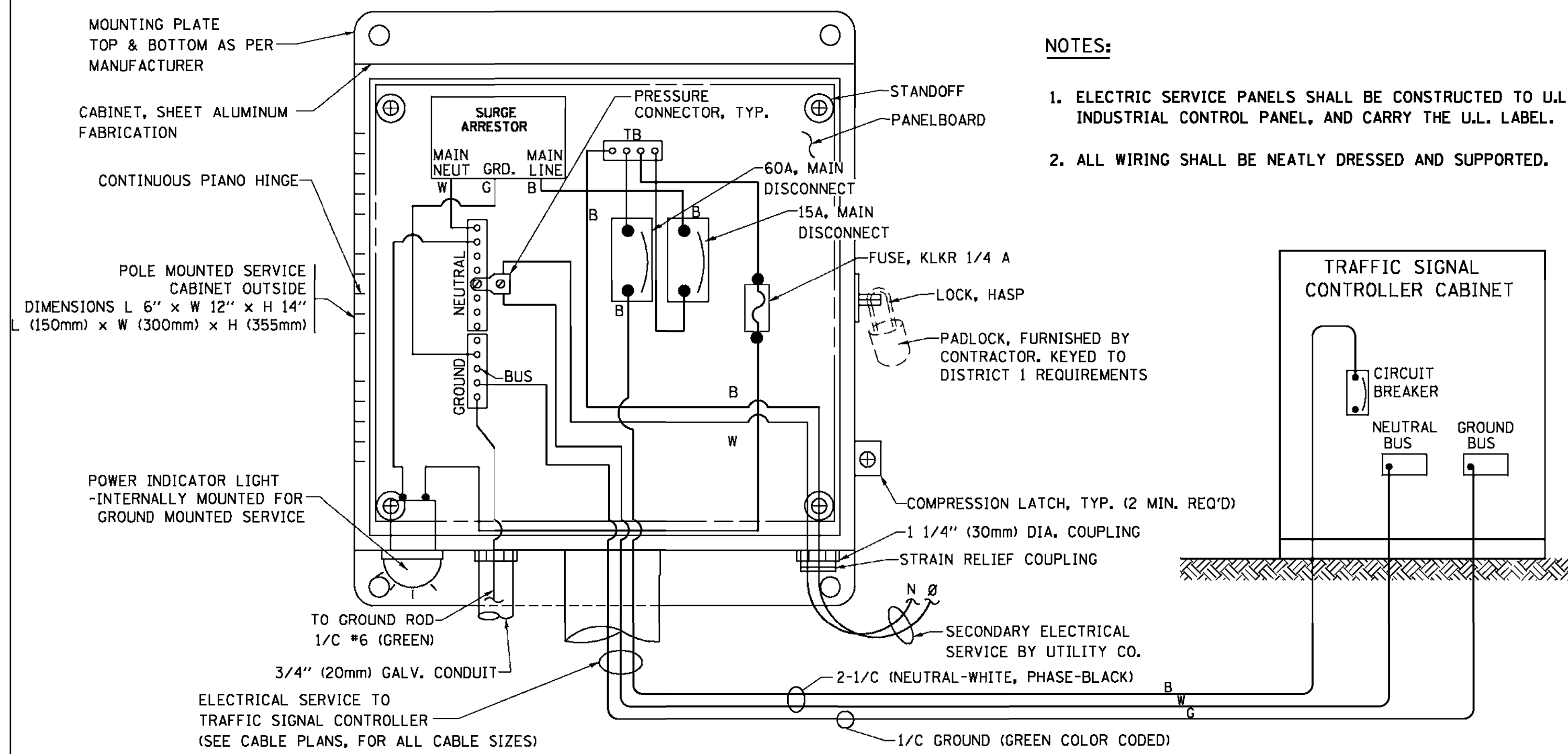
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

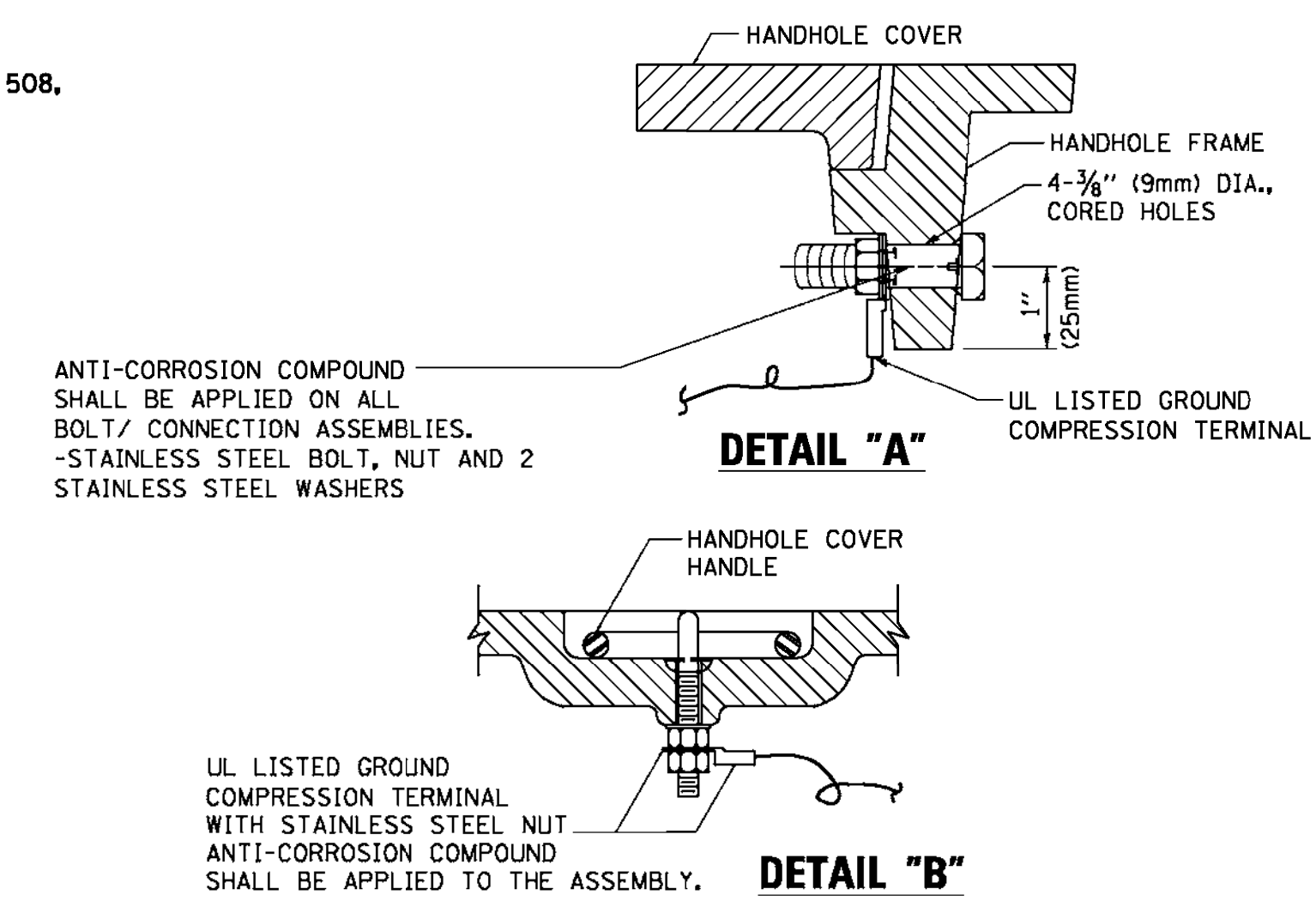
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

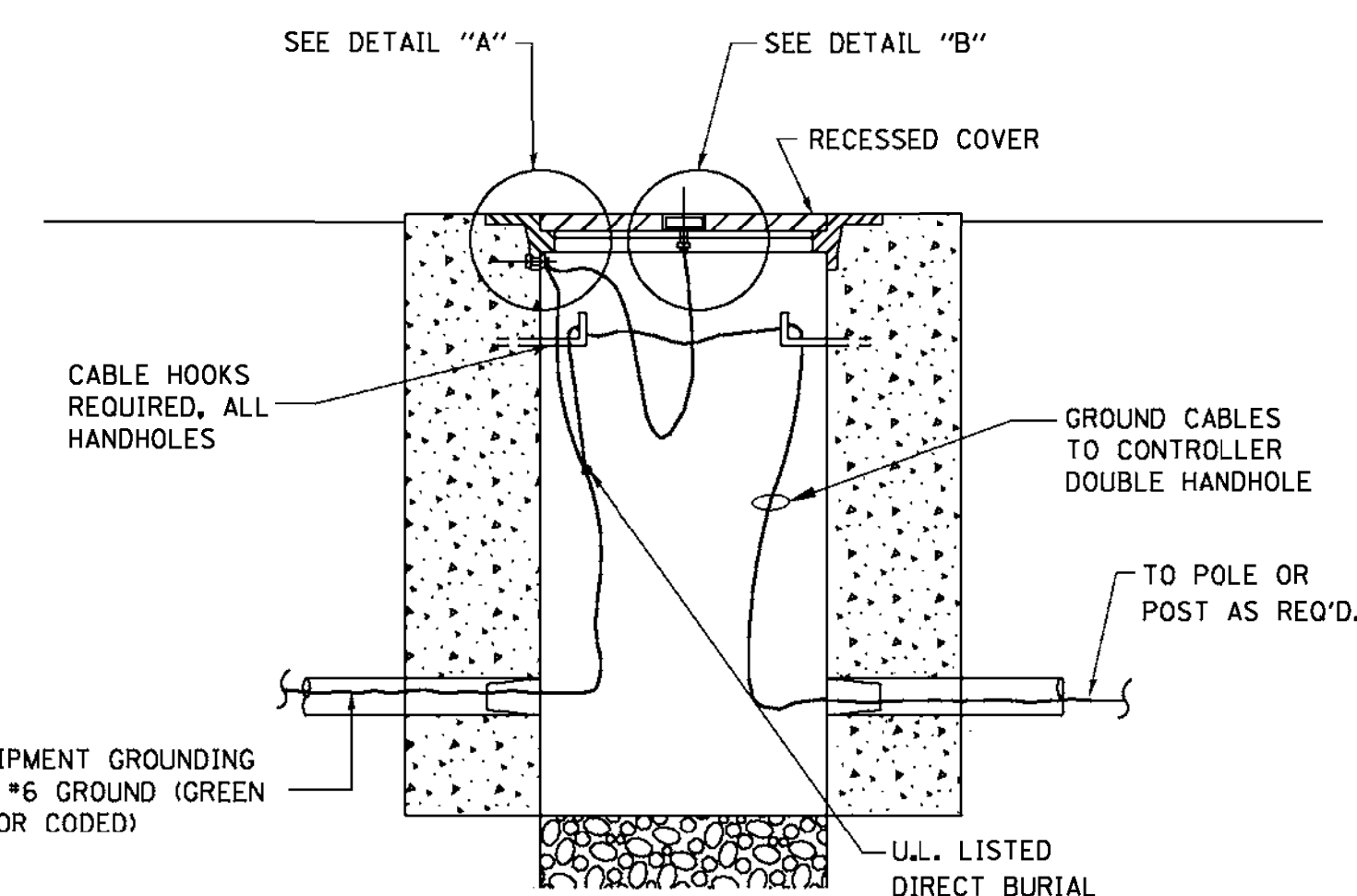


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)  
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)**

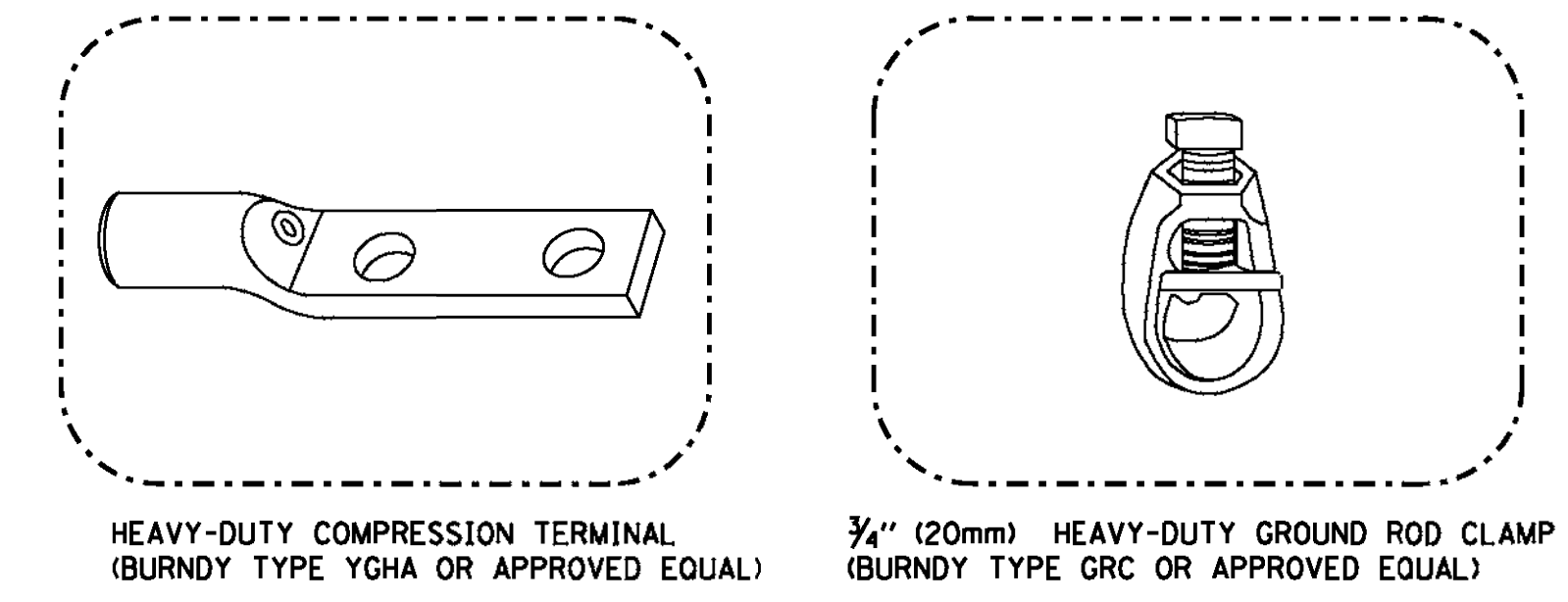


**NOTES:  
GROUNDING SYSTEM**

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

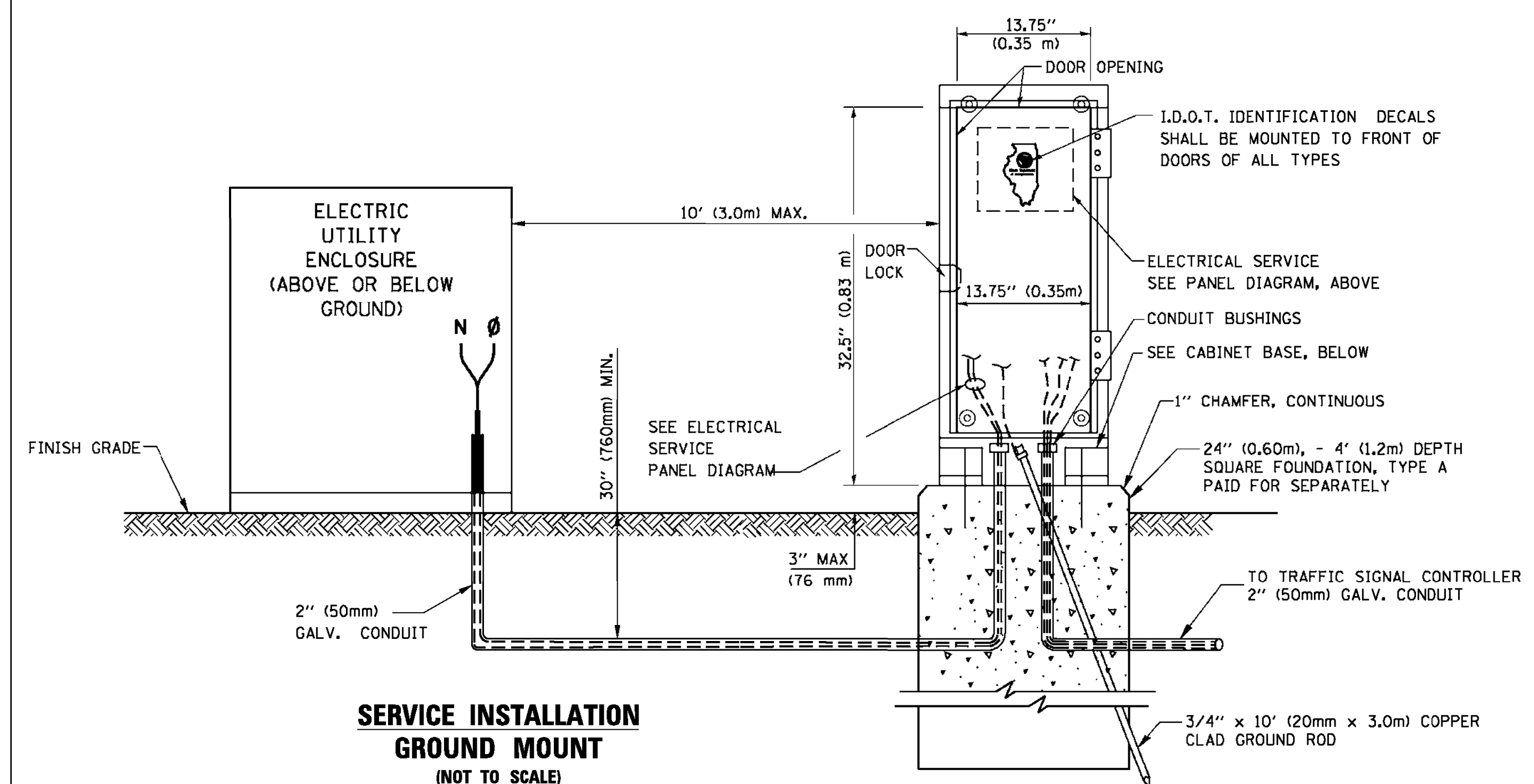


**HANDHOLE COVER & FRAME - GROUNDING DETAIL  
(NOT TO SCALE)**

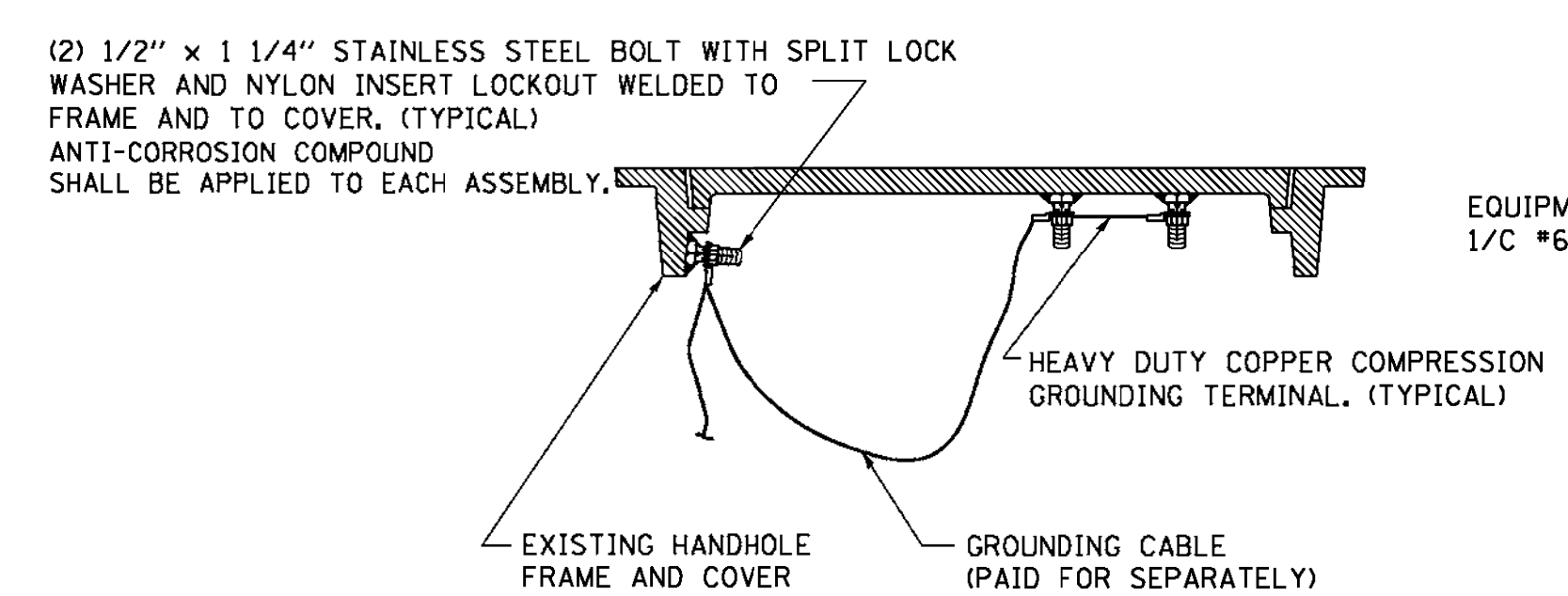


**NOTES:**

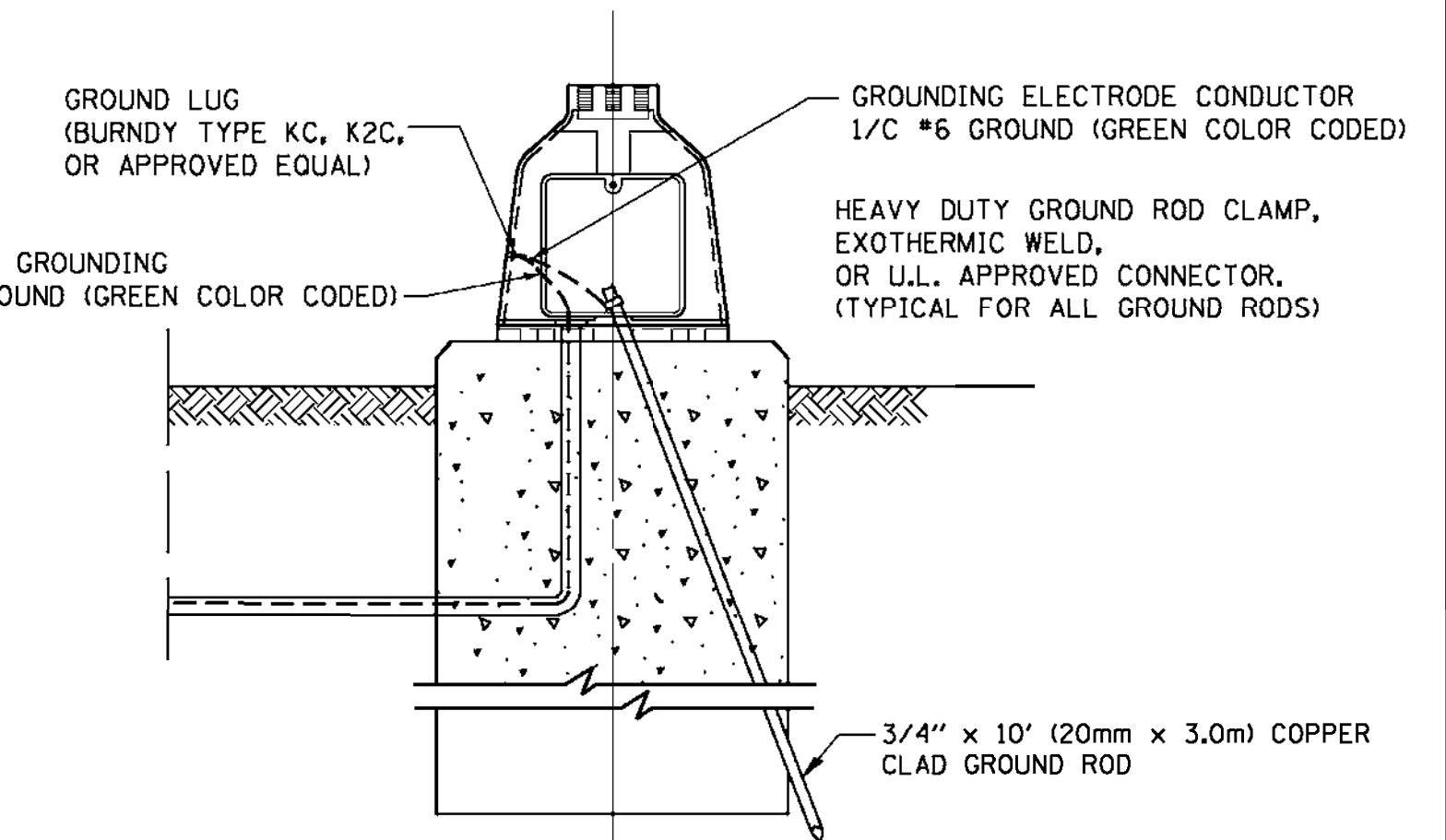
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**SERVICE INSTALLATION GROUND MOUNT  
(NOT TO SCALE)**

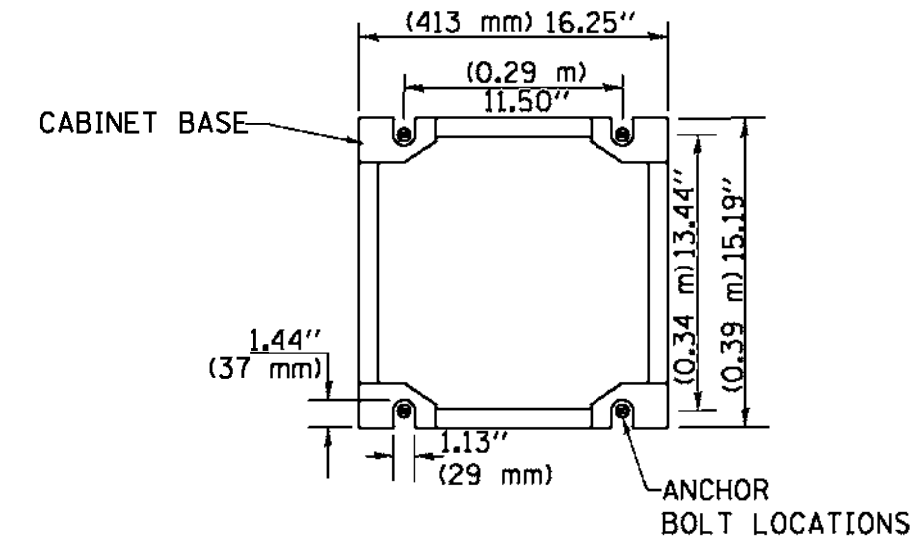


**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL  
(NOT TO SCALE)**



**MAST ARM POLE / POST-GROUNDING DETAIL  
(NOT TO SCALE)**

**CABINET - BASE BOLT PATTERN  
(NOT TO SCALE)**



FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
et\pwork\pwork\footemj\d0188315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

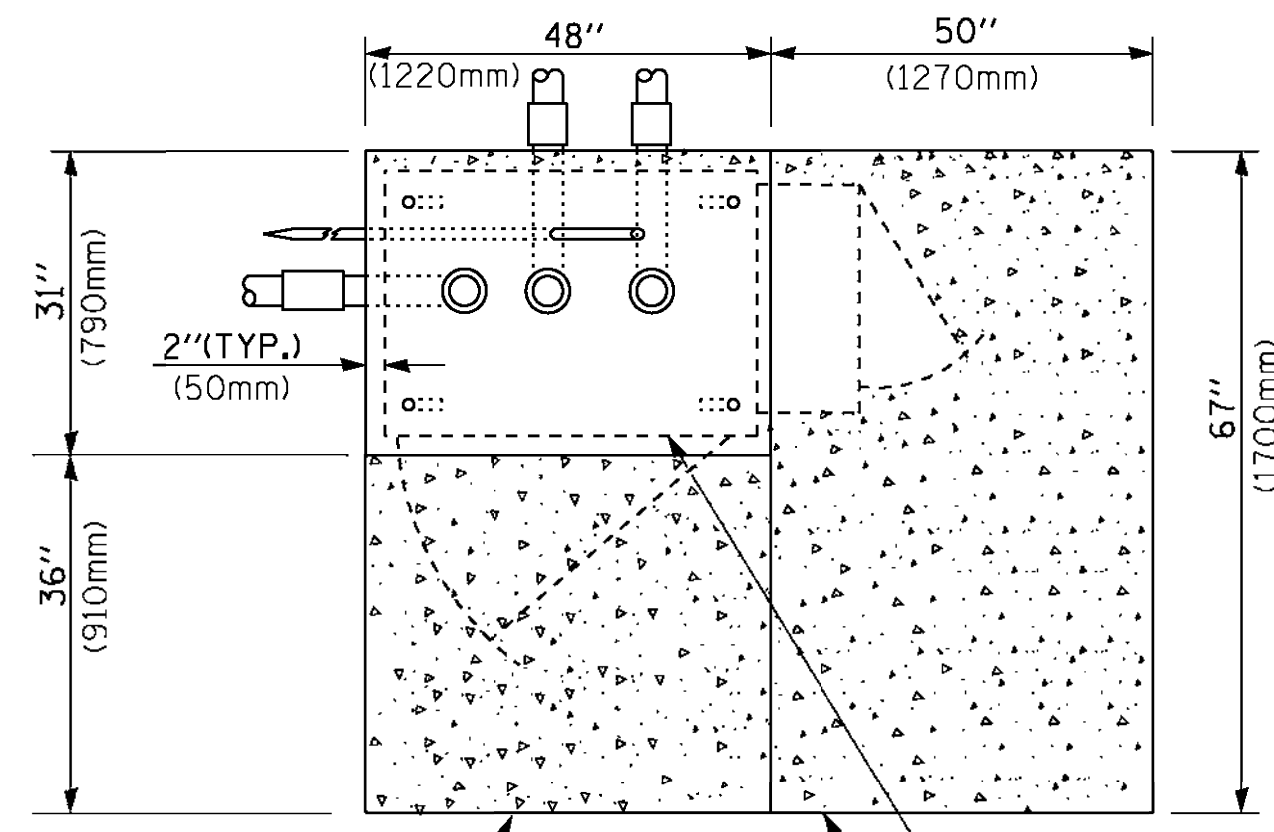
<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	<b>TS-05</b>	COOK	207	152
		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

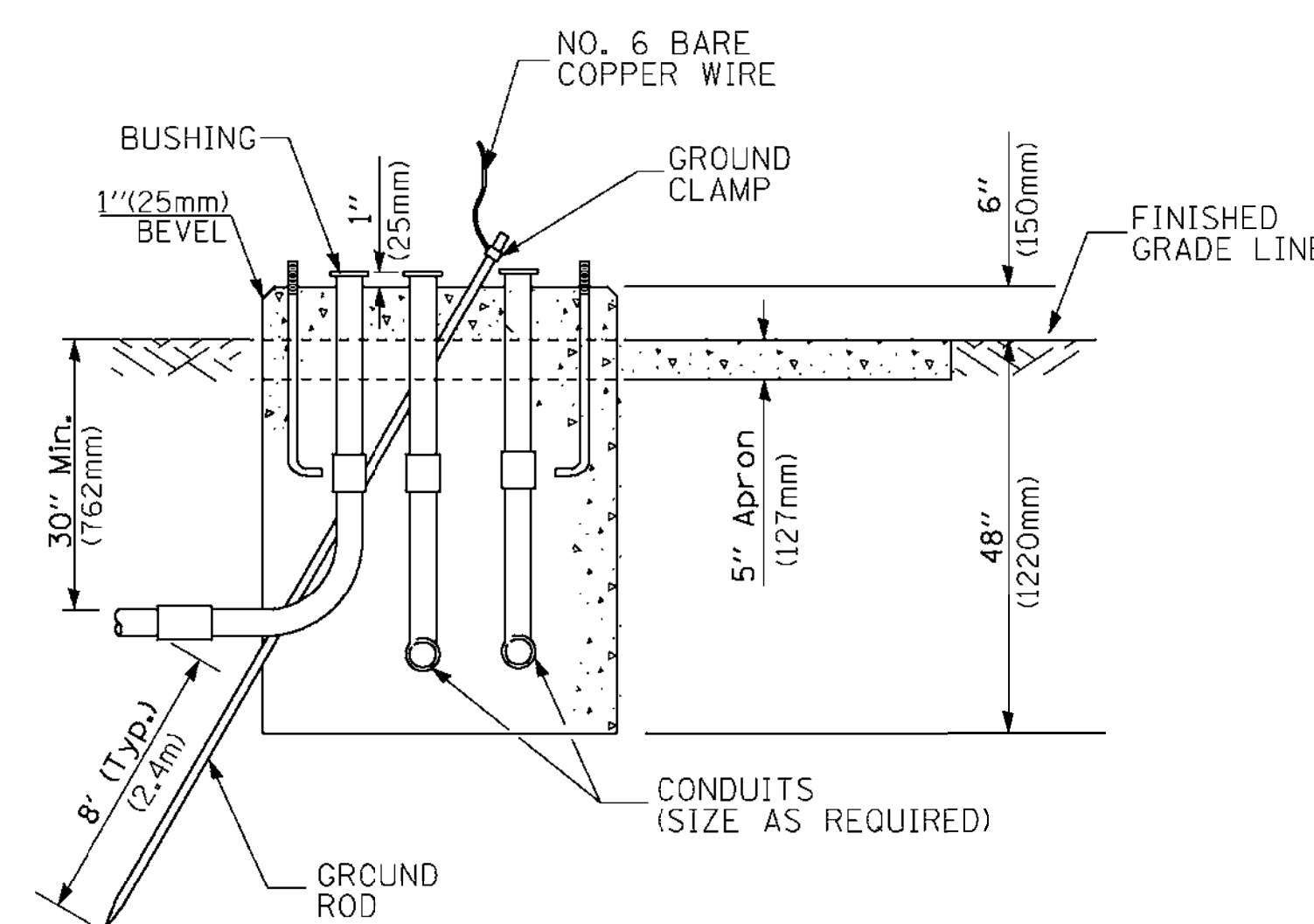
PKC00000

10/8/2021

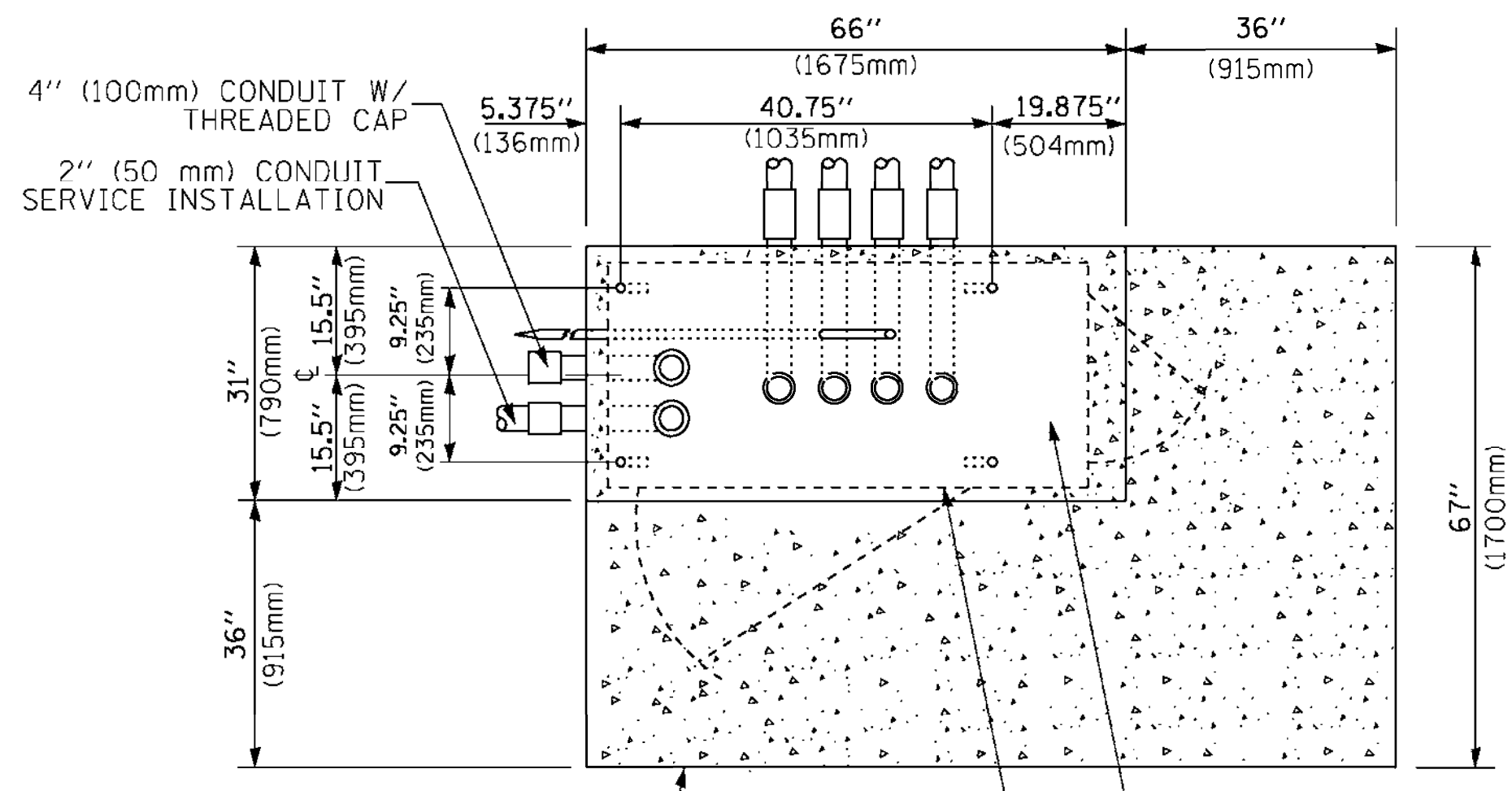




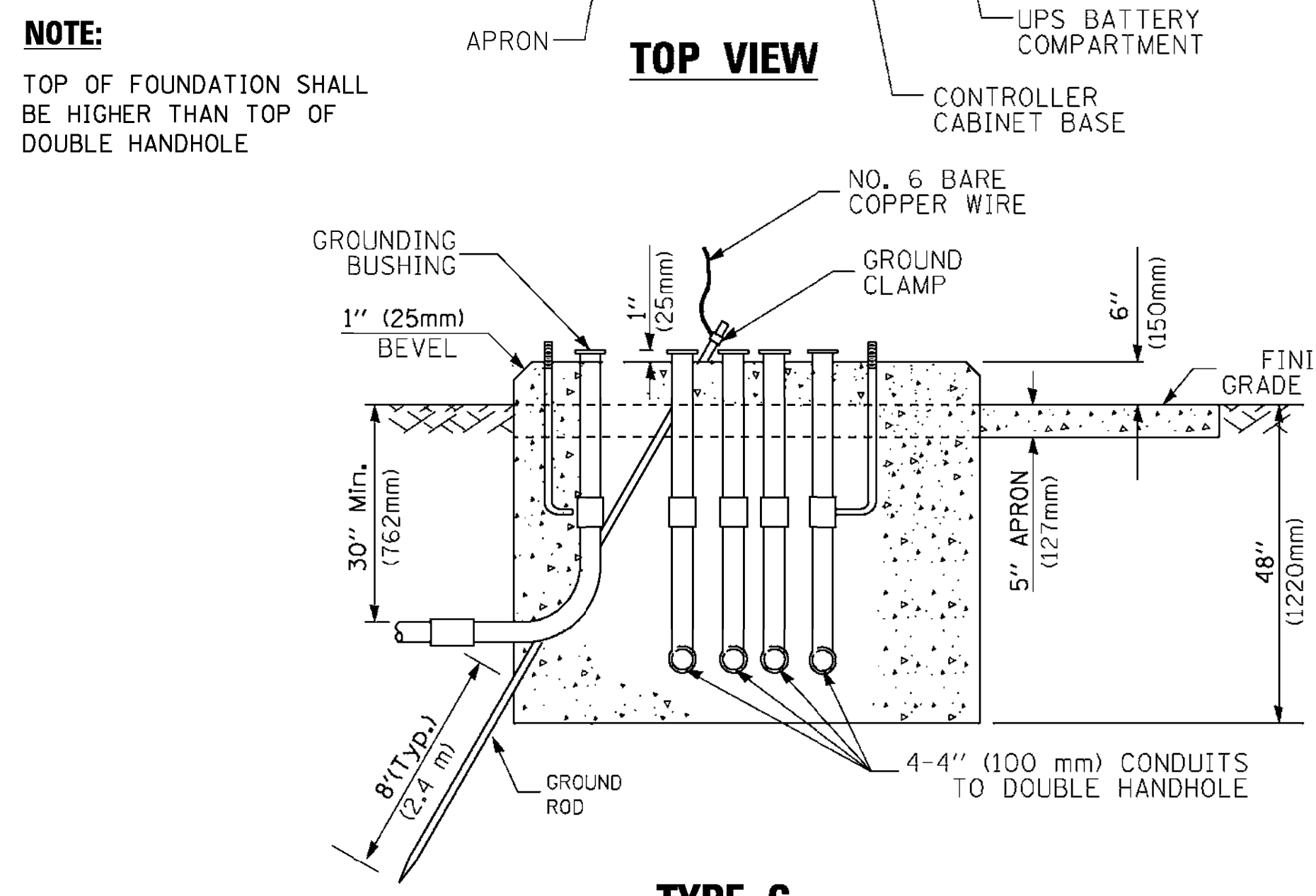
**TOP VIEW**



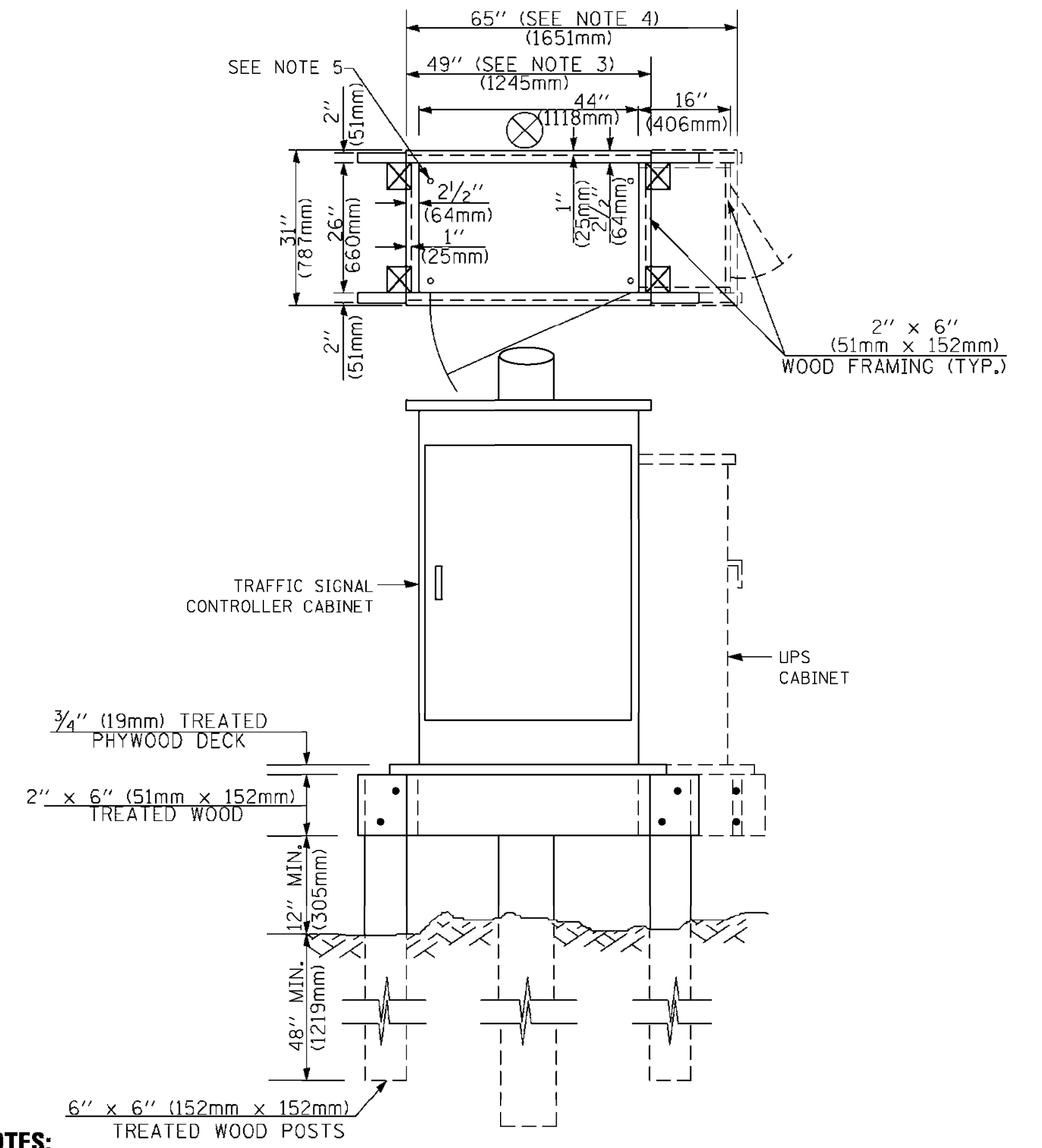
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TOP VIEW**



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

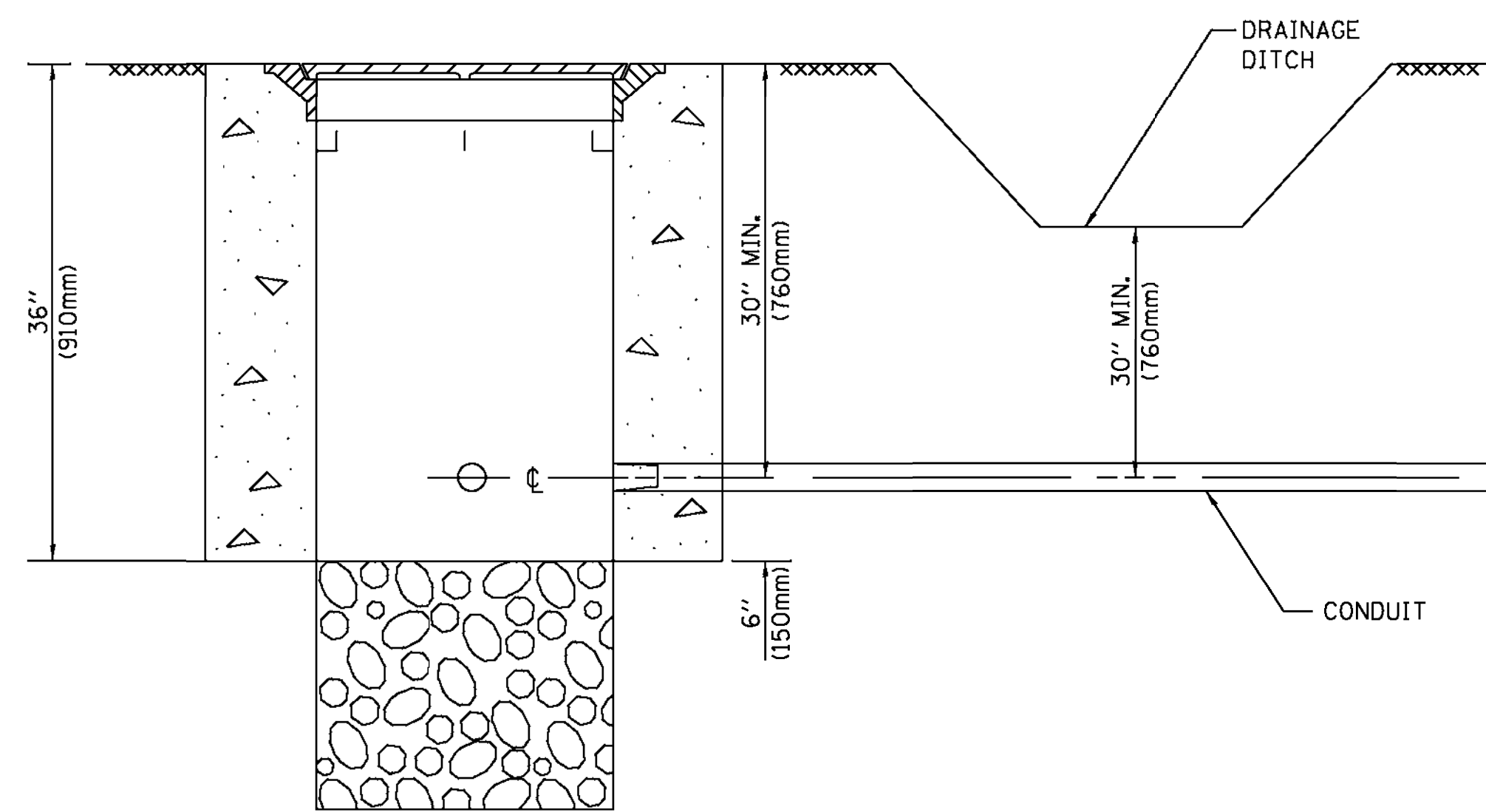
**DEPTH OF FOUNDATION**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	36" (900mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

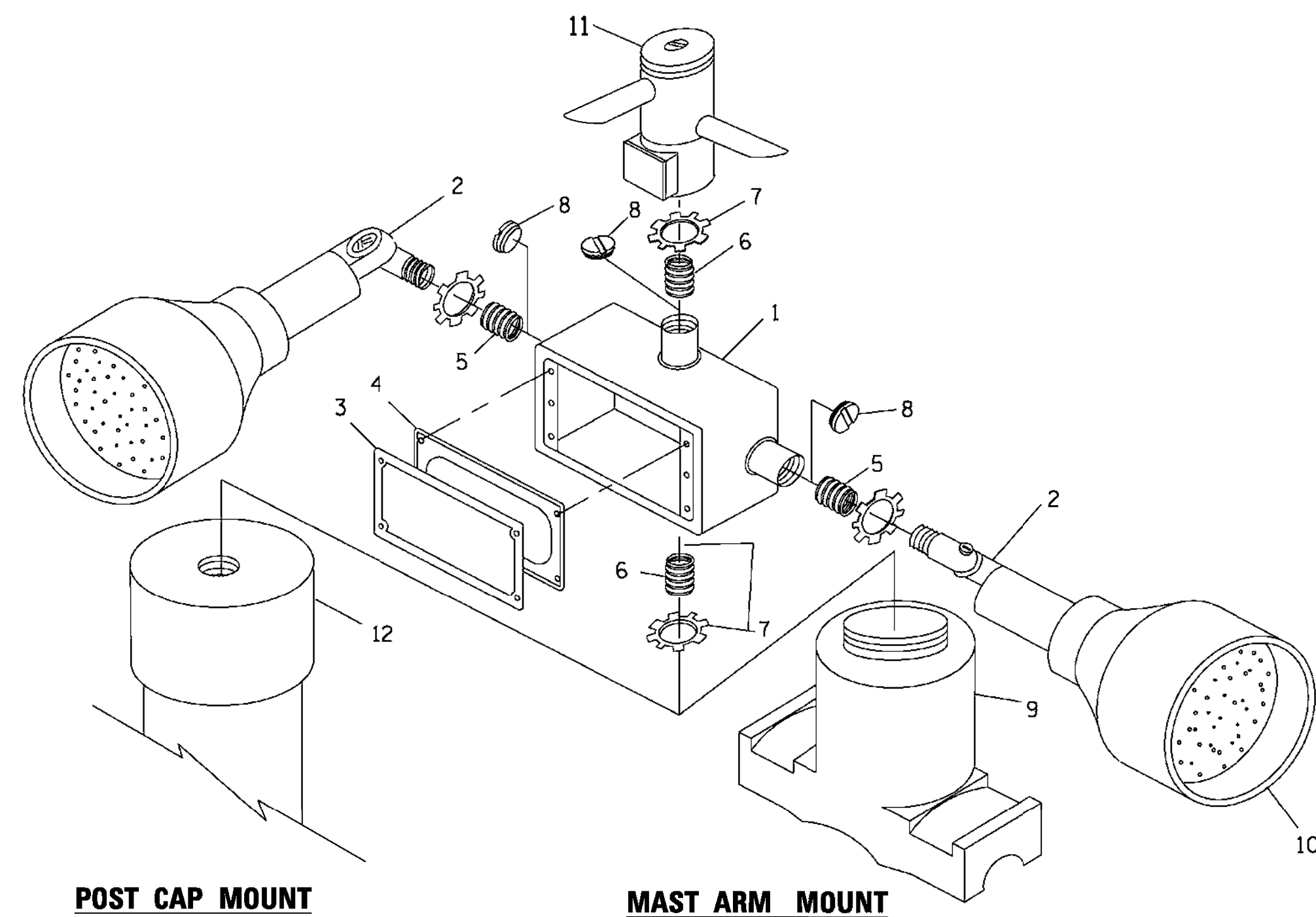
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



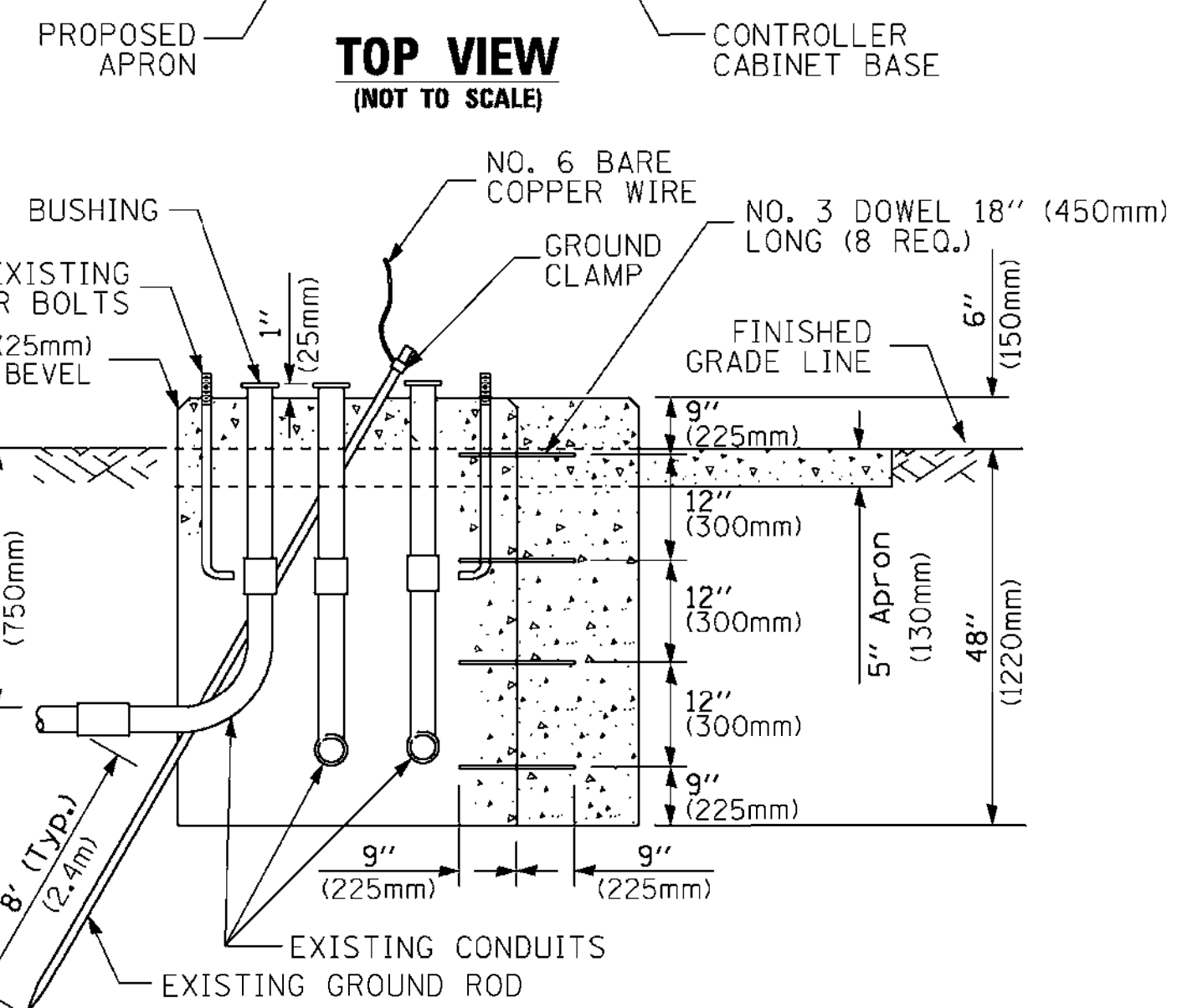
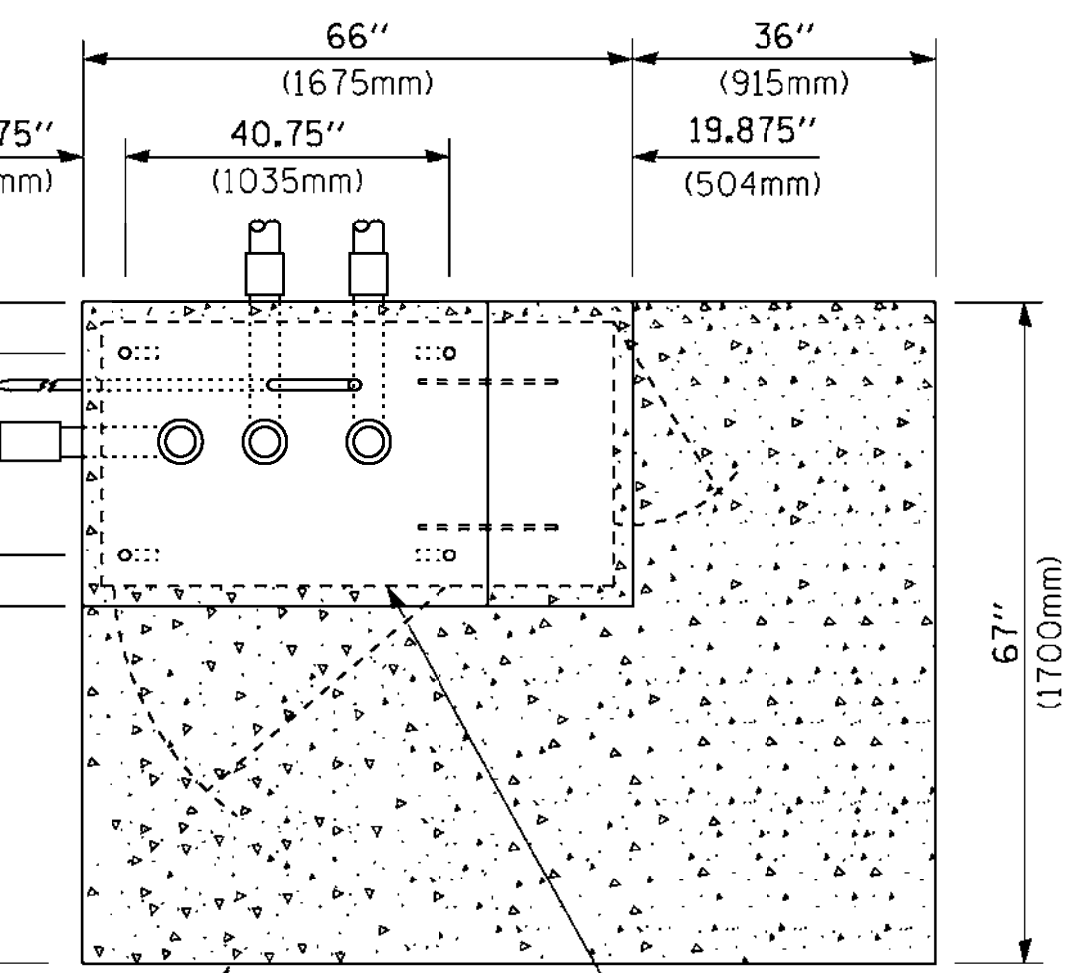
**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**POST CAP MOUNT**                      **MAST ARM MOUNT**  
**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**

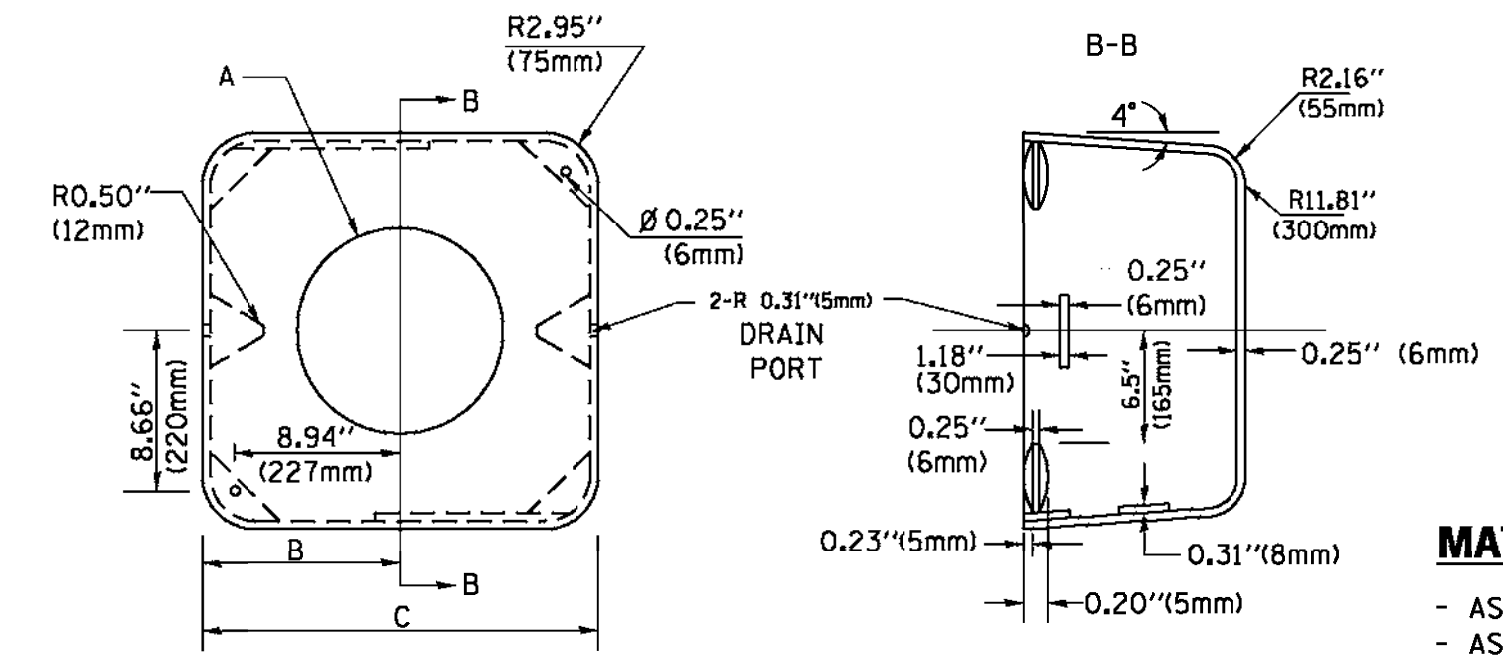


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

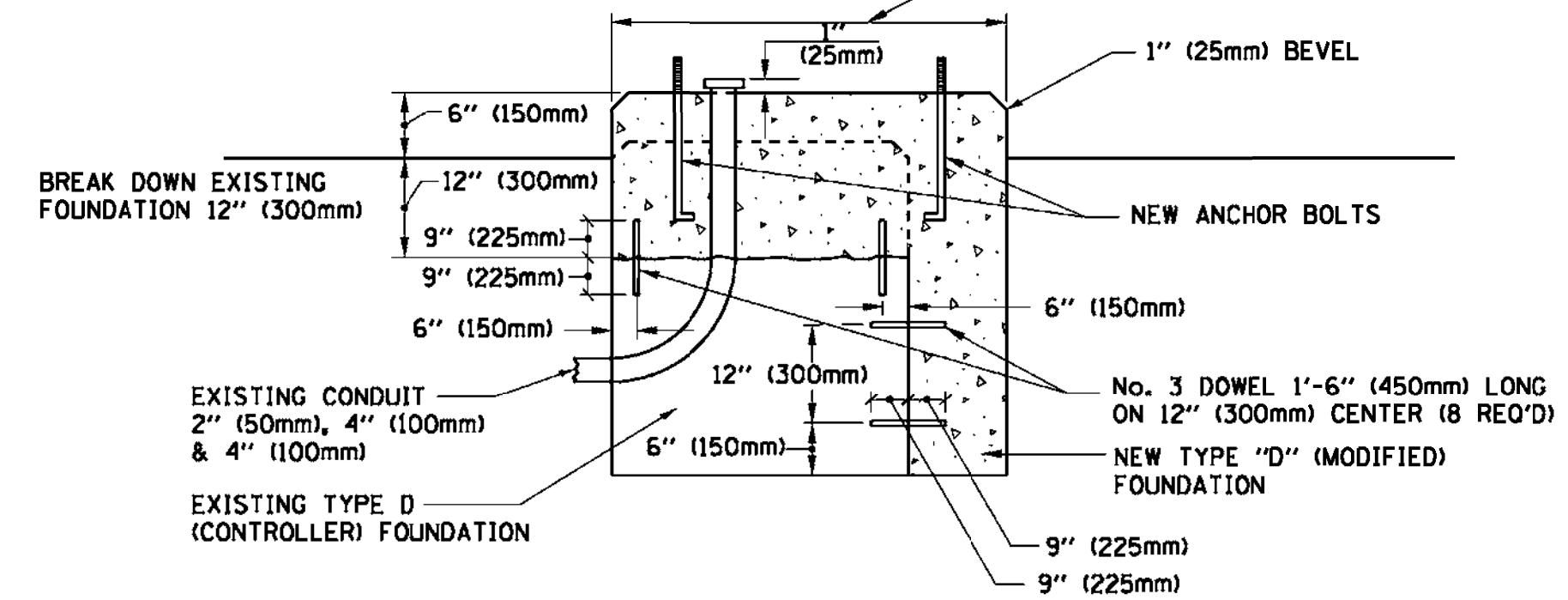
**SHROUD**

**NOTES:**

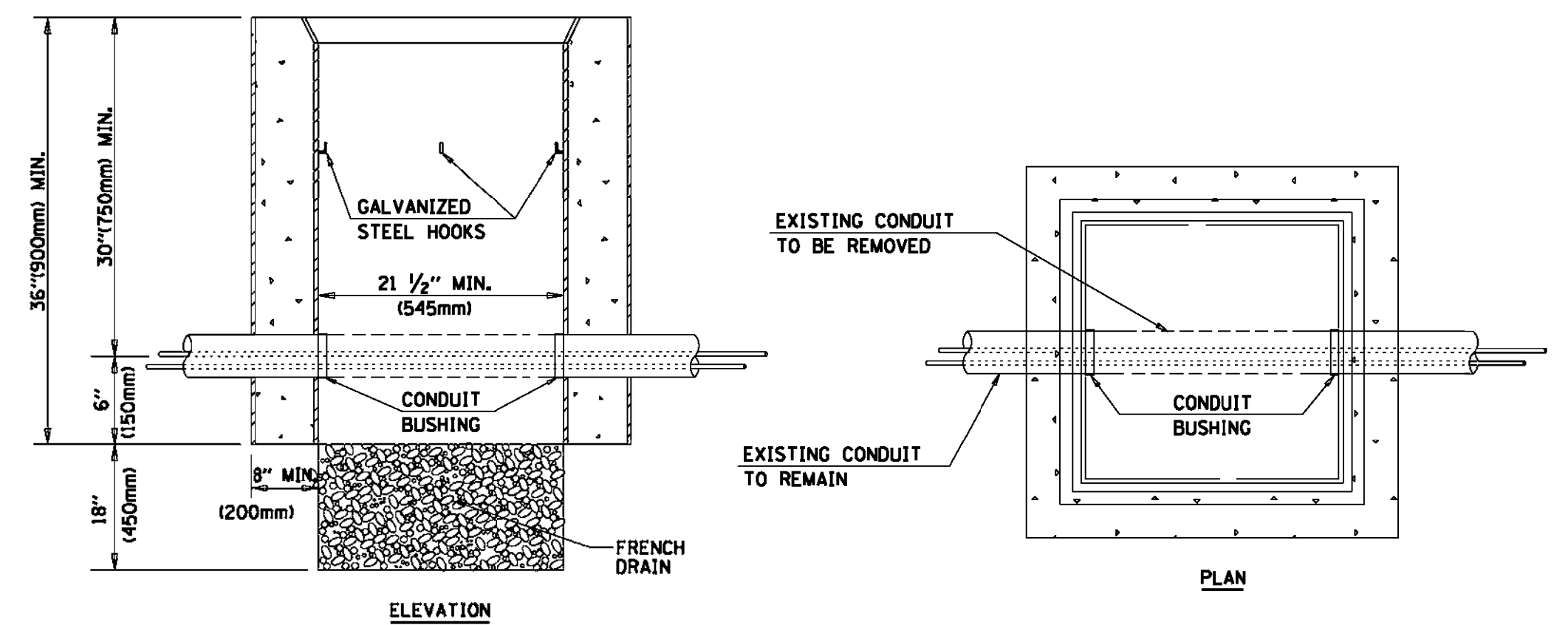
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

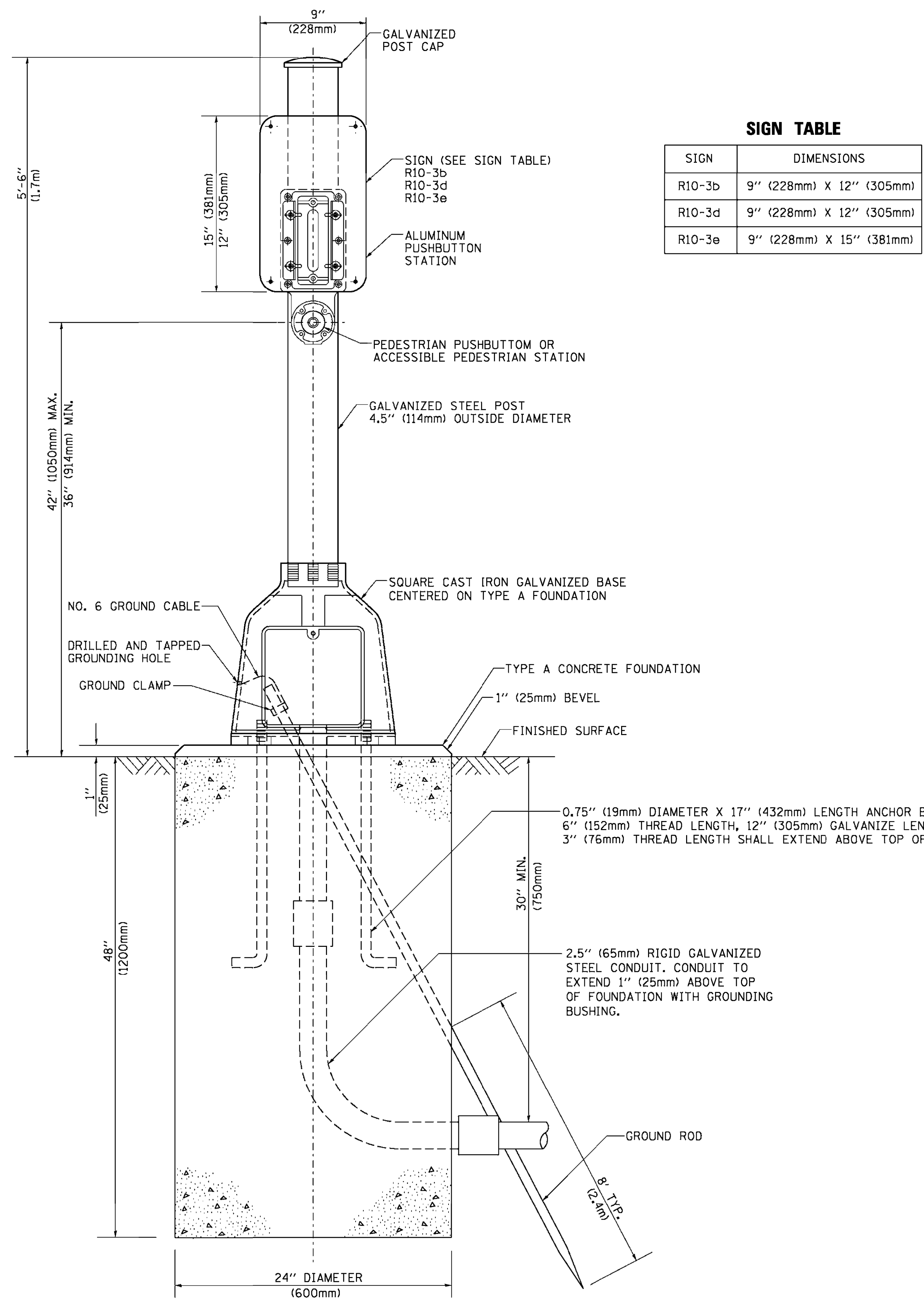
**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

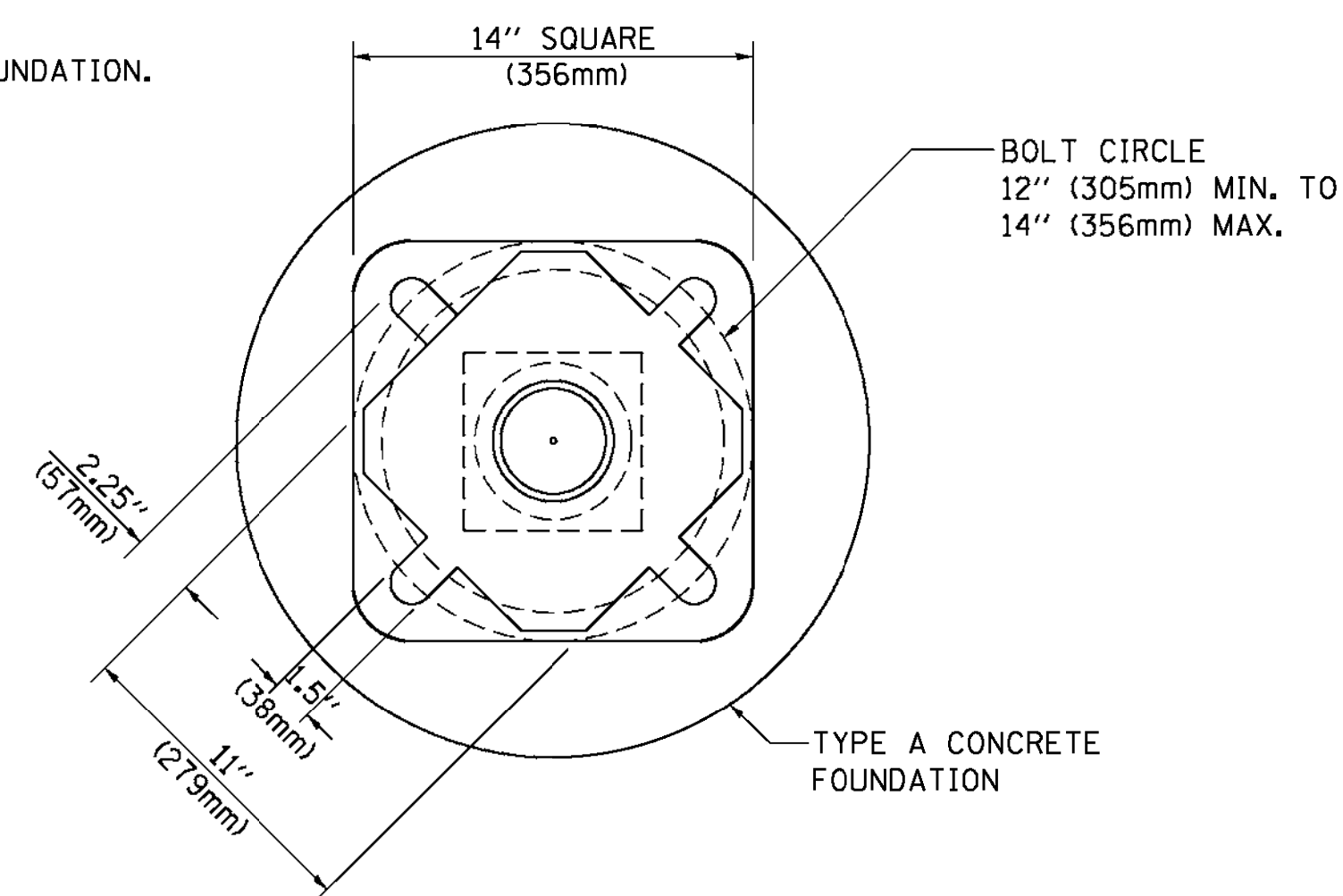
<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 6 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	207	154
<b>TS-05</b>		<b>CONTRACT NO.</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
et\pwork\pwork\footemj\d0188315\ts05.dgn		DRAWN - GND	REVISED -
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PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

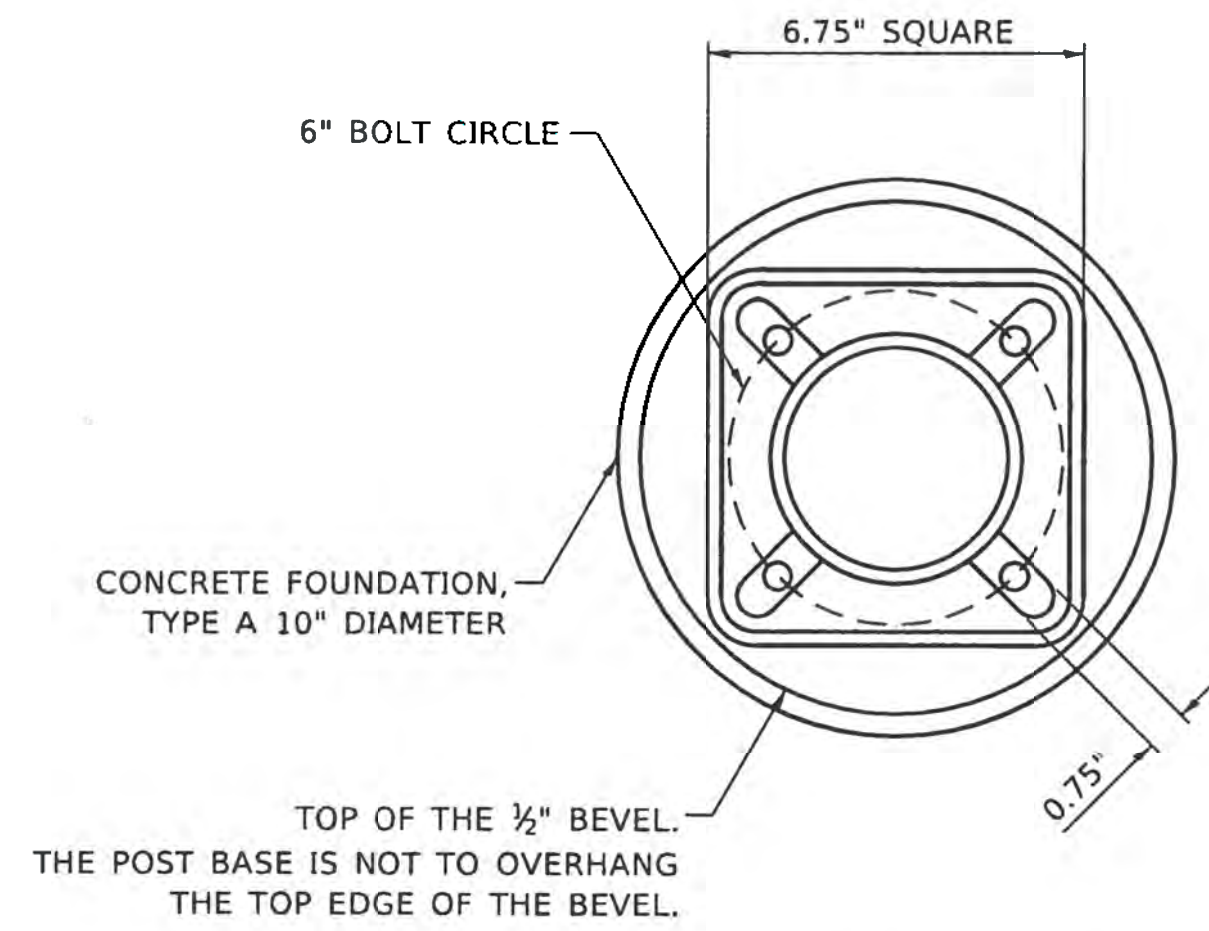
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	207	155
<b>TS-05</b>		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PKC00000

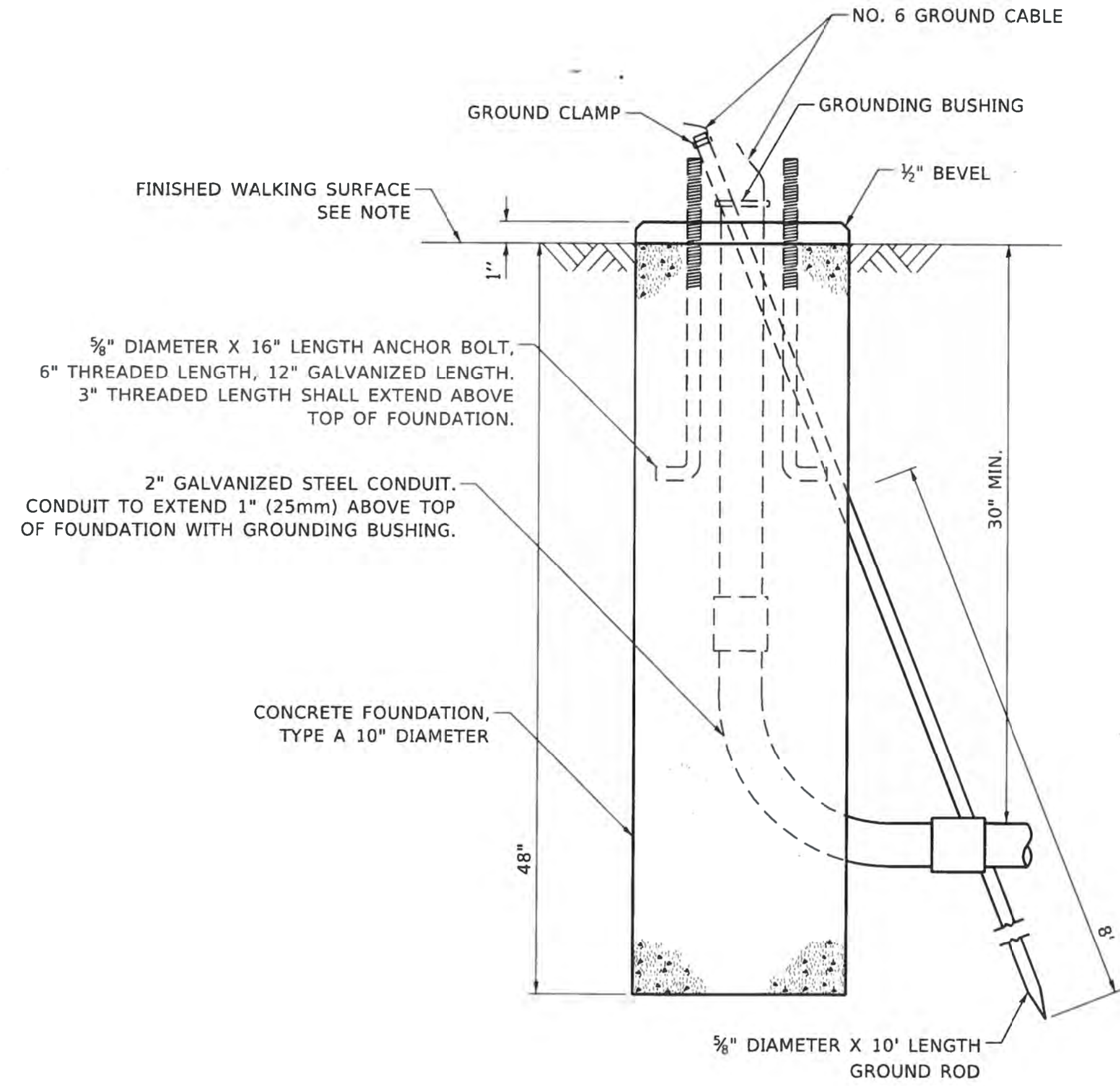
10/8/2021



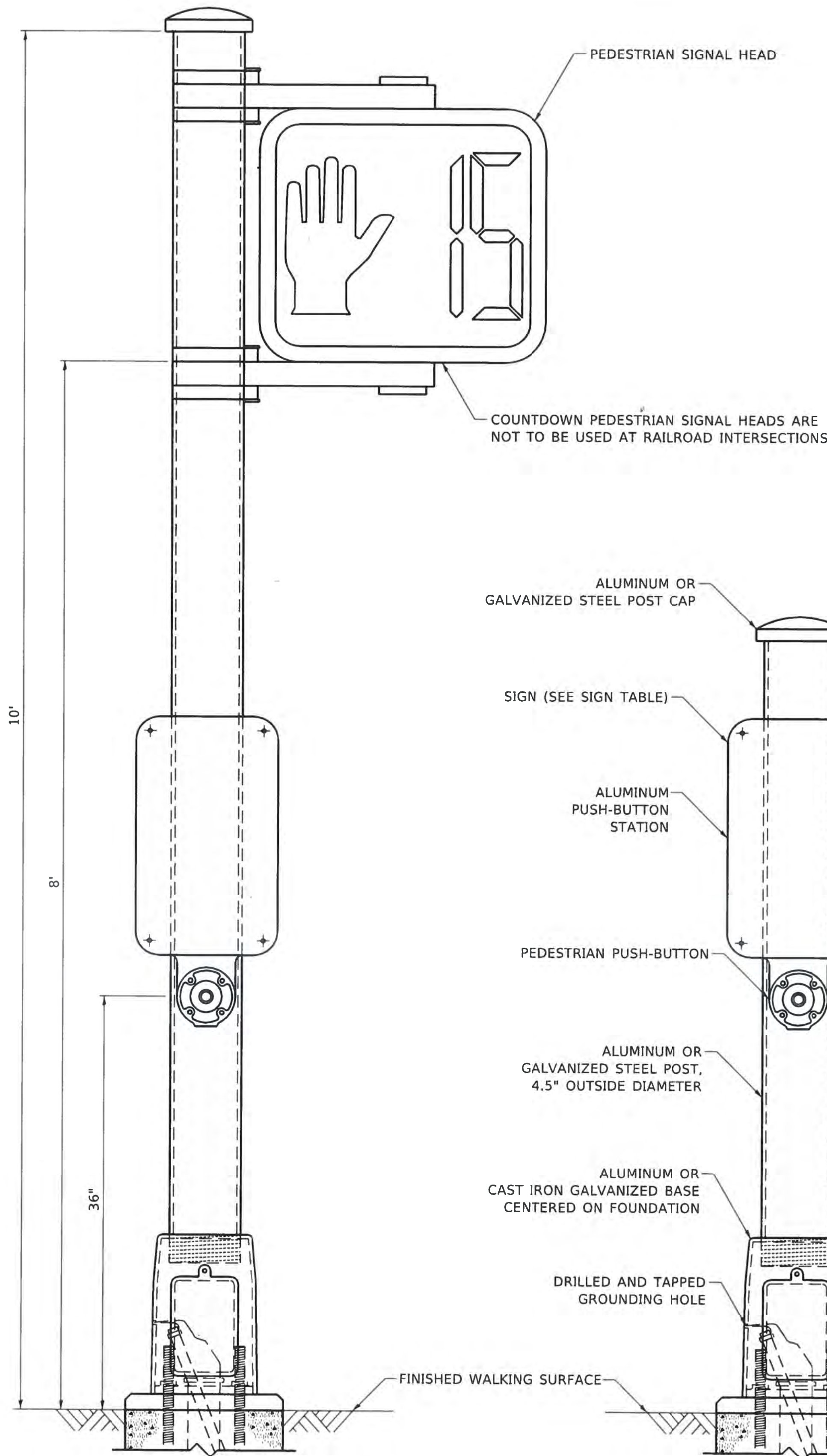
**BOLT PATTERN**

**NOTE:**

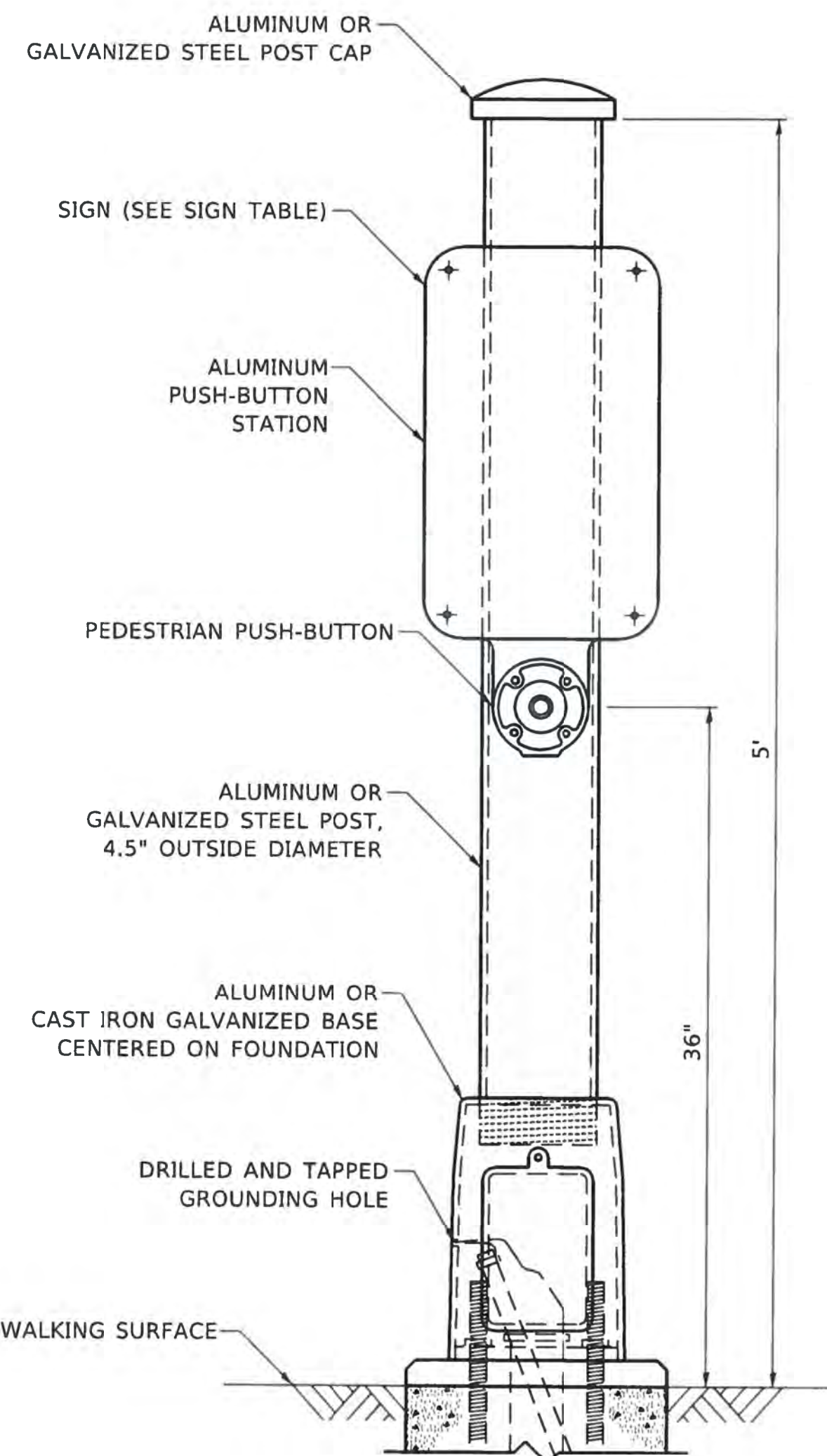
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



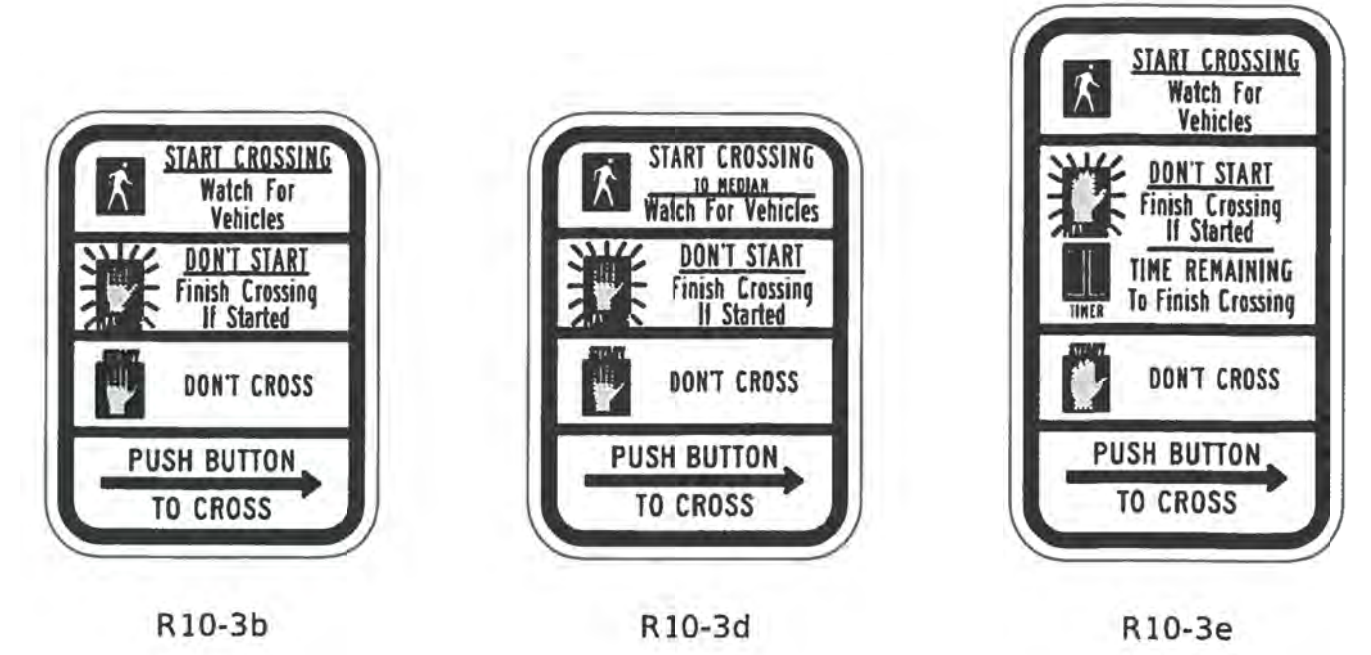
**CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER**



**PEDESTRIAN SIGNAL POST, 10 FT.**



**PEDESTRIAN SIGNAL POST, 5 FT.**



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

**NOTES:**

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

MODEL: Default  
FILE NAME: S:\WP\Design\Iowa\11\_Cother\PedestrianPost\PedestrianSignalPost.dgn

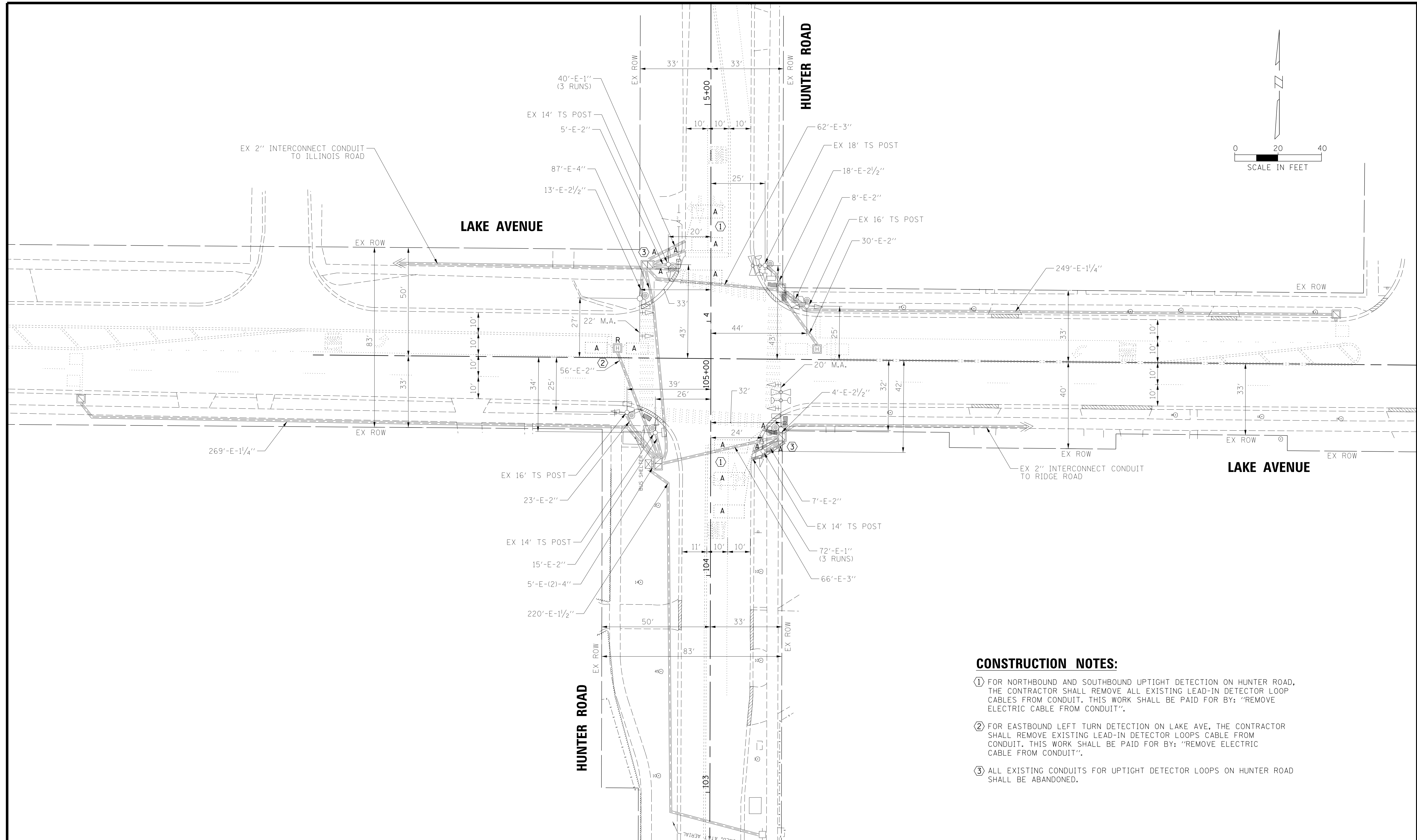
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PLOT DATE = 4/10/2019	CHECKED - LP	REVISED -
	DATE - 10/15/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NTS SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	207	156
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**CONSTRUCTION NOTES:**

- ① FOR NORTHBOUND AND SOUTHBOUND UPTIGHT DETECTION ON HUNTER ROAD, THE CONTRACTOR SHALL REMOVE ALL EXISTING LEAD-IN DETECTOR LOOP CABLES FROM CONDUIT. THIS WORK SHALL BE PAID FOR BY: "REMOVE ELECTRIC CABLE FROM CONDUIT".
- ② FOR EASTBOUND LEFT TURN DETECTION ON LAKE AVE, THE CONTRACTOR SHALL REMOVE EXISTING LEAD-IN DETECTOR LOOPS CABLE FROM CONDUIT. THIS WORK SHALL BE PAID FOR BY: "REMOVE ELECTRIC CABLE FROM CONDUIT".
- ③ ALL EXISTING CONDUITS FOR UPTIGHT DETECTOR LOOPS ON HUNTER ROAD SHALL BE ABANDONED.

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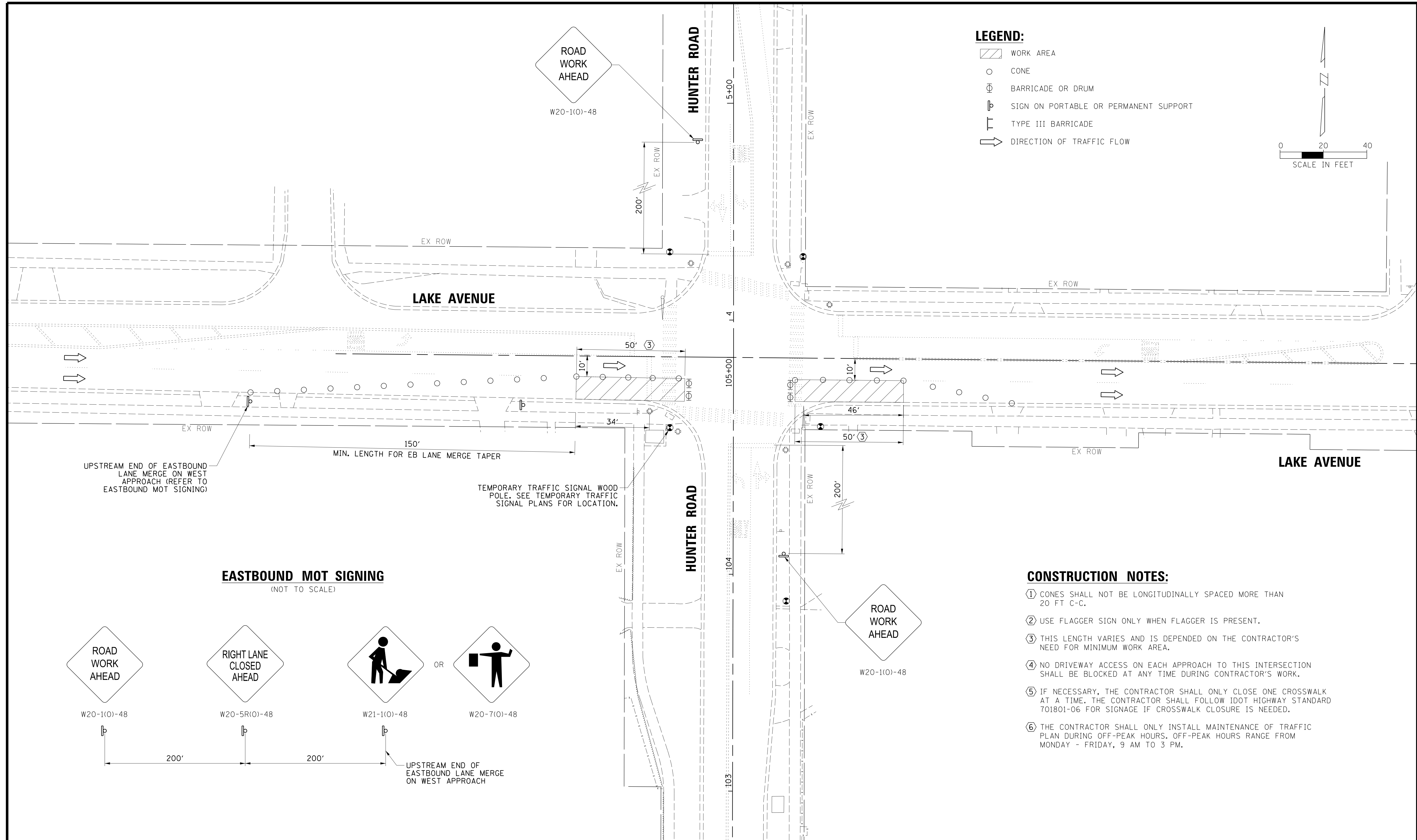
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
FILE NAME	N:\wilmette\180245.00004\Traffic\09-TS.Lake-Hunter_REM.dgn			

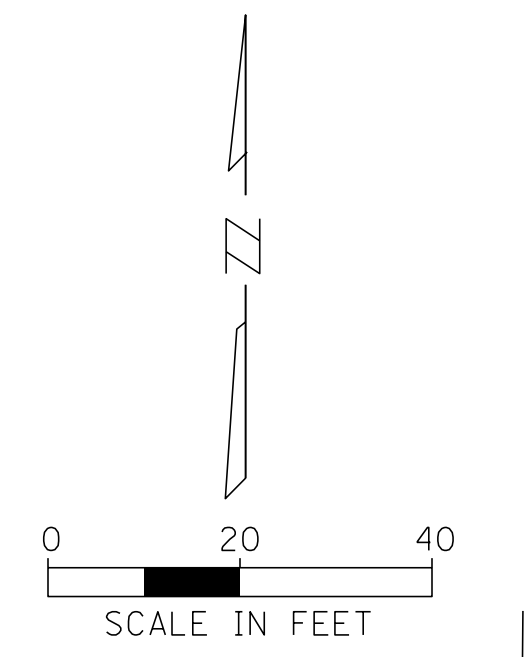
TITLE: **TRAFFIC SIGNAL EQUIPMENT  
 REMOVAL PLAN  
 LAKE AVENUE AND HUNTER ROAD**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 157 OF 207  
 DRAWING NO. **157**

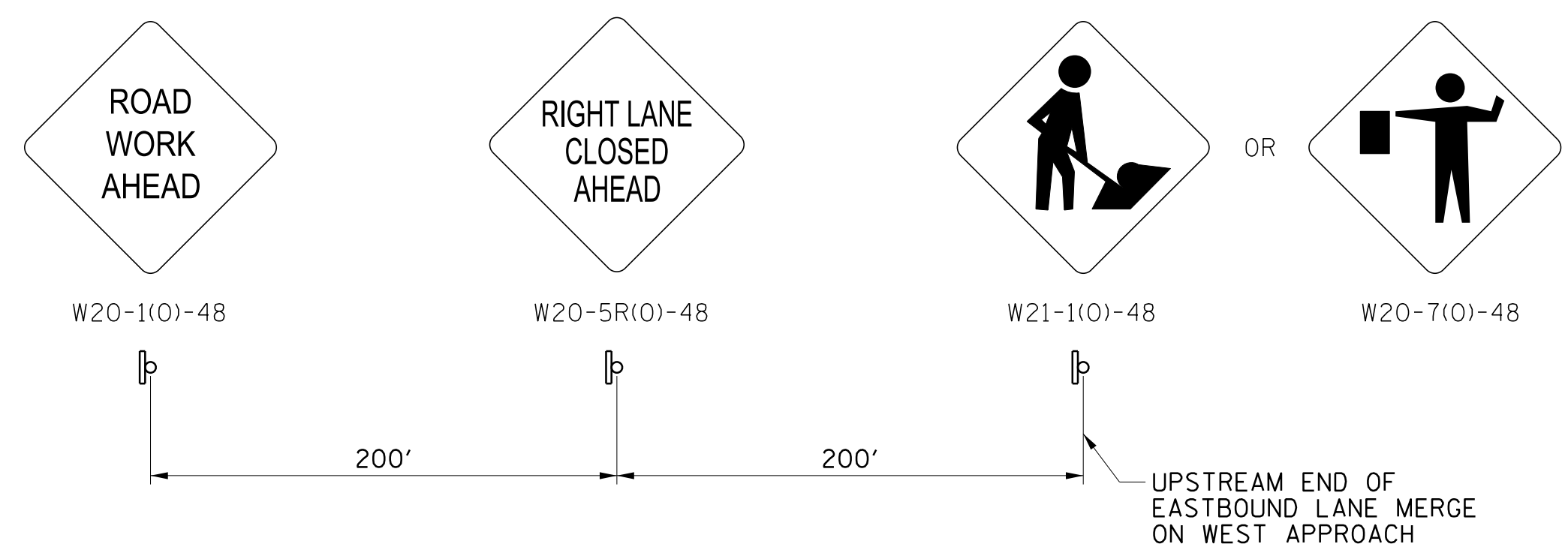


**LEGEND:**

- WORK AREA
- CONE
- BARRICADE OR DRUM
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC FLOW



**EASTBOUND MOT SIGNING**  
(NOT TO SCALE)



**CONSTRUCTION NOTES:**

- ① CONES SHALL NOT BE LONGITUDINALLY SPACED MORE THAN 20 FT C-C.
- ② USE FLAGGER SIGN ONLY WHEN FLAGGER IS PRESENT.
- ③ THIS LENGTH VARIES AND IS DEPENDED ON THE CONTRACTOR'S NEED FOR MINIMUM WORK AREA.
- ④ NO DRIVEWAY ACCESS ON EACH APPROACH TO THIS INTERSECTION SHALL BE BLOCKED AT ANY TIME DURING CONTRACTOR'S WORK.
- ⑤ IF NECESSARY, THE CONTRACTOR SHALL ONLY CLOSE ONE CROSSWALK AT A TIME, THE CONTRACTOR SHALL FOLLOW IDOT HIGHWAY STANDARD 701801-06 FOR SIGNAGE IF CROSSWALK CLOSURE IS NEEDED.
- ⑥ THE CONTRACTOR SHALL ONLY INSTALL MAINTENANCE OF TRAFFIC PLAN DURING OFF-PEAK HOURS. OFF-PEAK HOURS RANGE FROM MONDAY - FRIDAY, 9 AM TO 3 PM.

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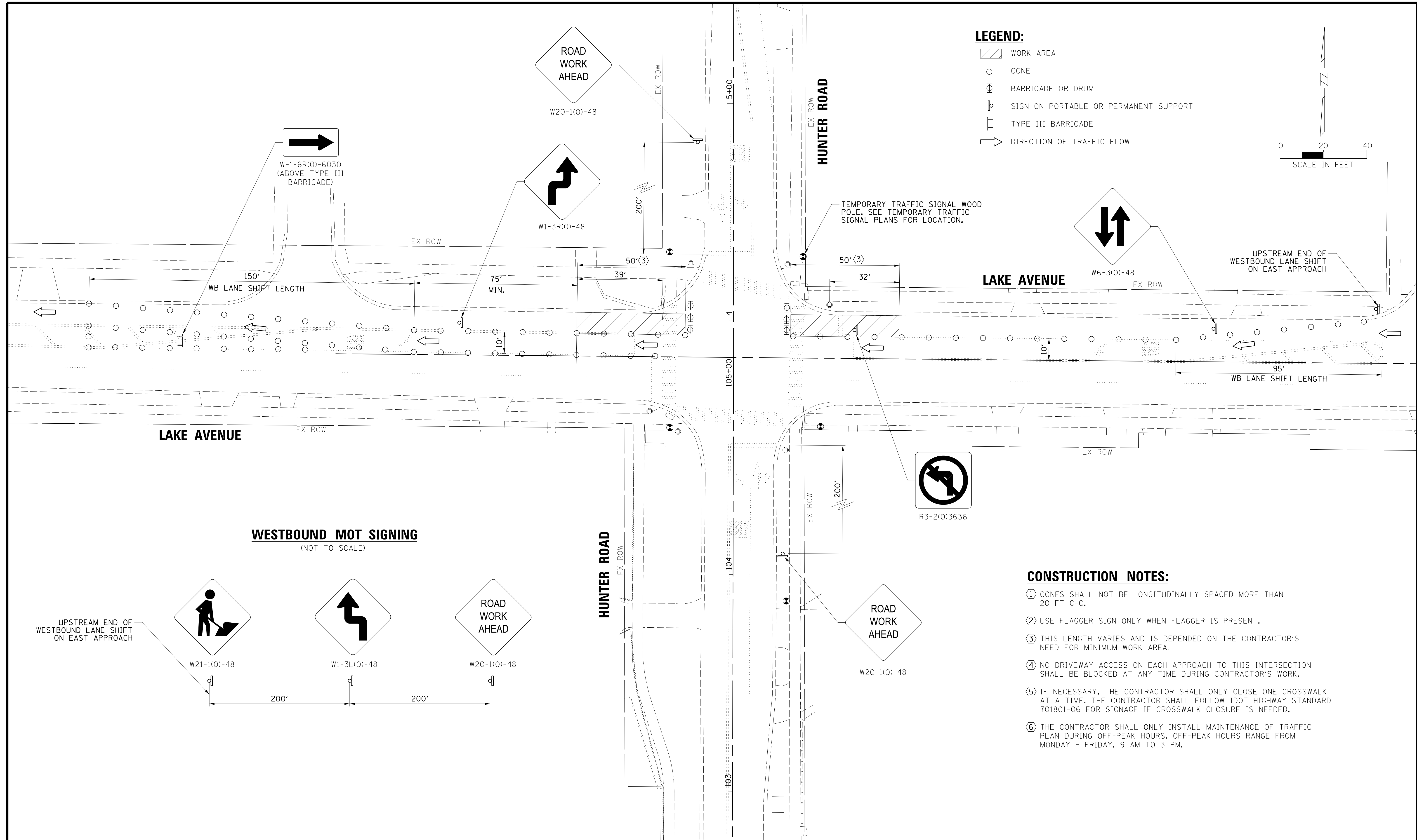
**BAXTER & WOODMAN**  
 Consulting Engineers

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 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
FILE NAME	N:\wilmette\180245.00004\Traffic\10-TS-Lake-Hunter_MOT_EB.dgn			

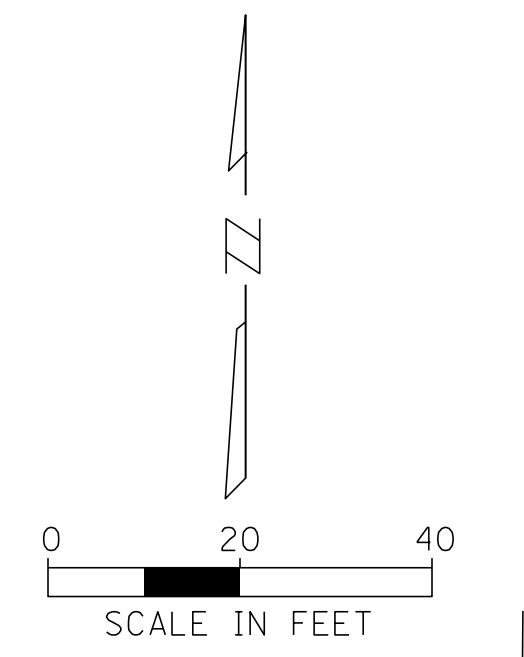
TITLE: **SUGGESTED MOT FOR EB LAKE AVENUE FOR INSTALLATION OF TEMPORARY TRAFFIC SIGNAL POLES ON SOUTH SIDE OF LAKE AVENUE LAKE AVENUE AND HUNTER ROAD**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 158 OF 207  
 DRAWING NO. **158**

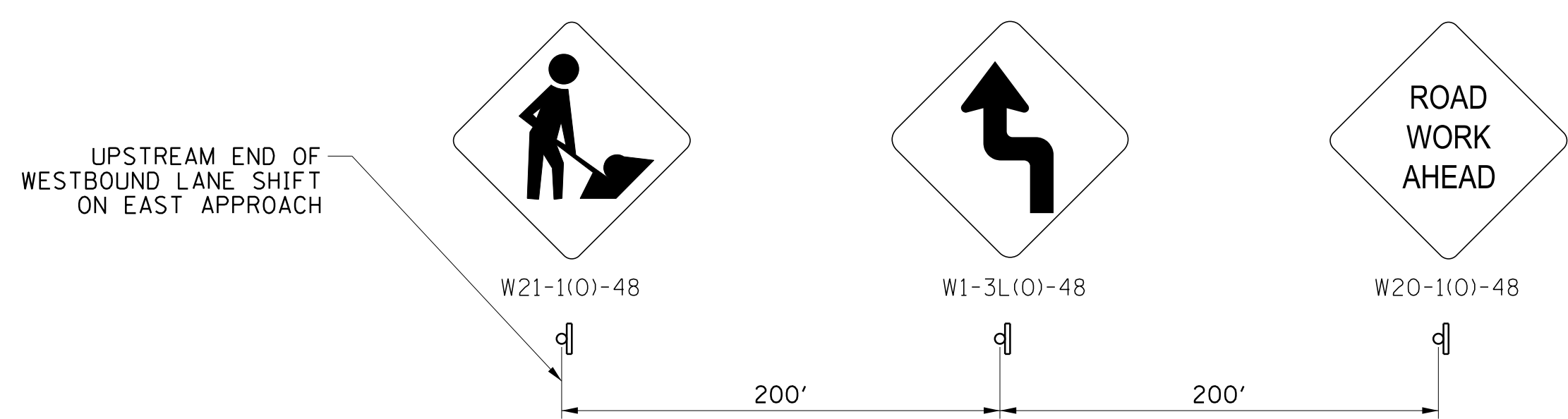


**LEGEND:**

- WORK AREA
- CONE
- BARRICADE OR DRUM
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC FLOW



**WESTBOUND MOT SIGNING**  
(NOT TO SCALE)



**CONSTRUCTION NOTES:**

- ① CONES SHALL NOT BE LONGITUDINALLY SPACED MORE THAN 20 FT C-C.
- ② USE FLAGGER SIGN ONLY WHEN FLAGGER IS PRESENT.
- ③ THIS LENGTH VARIES AND IS DEPENDED ON THE CONTRACTOR'S NEED FOR MINIMUM WORK AREA.
- ④ NO DRIVEWAY ACCESS ON EACH APPROACH TO THIS INTERSECTION SHALL BE BLOCKED AT ANY TIME DURING CONTRACTOR'S WORK.
- ⑤ IF NECESSARY, THE CONTRACTOR SHALL ONLY CLOSE ONE CROSSWALK AT A TIME, THE CONTRACTOR SHALL FOLLOW IDOT HIGHWAY STANDARD 701801-06 FOR SIGNAGE IF CROSSWALK CLOSURE IS NEEDED.
- ⑥ THE CONTRACTOR SHALL ONLY INSTALL MAINTENANCE OF TRAFFIC PLAN DURING OFF-PEAK HOURS. OFF-PEAK HOURS RANGE FROM MONDAY - FRIDAY, 9 AM TO 3 PM.

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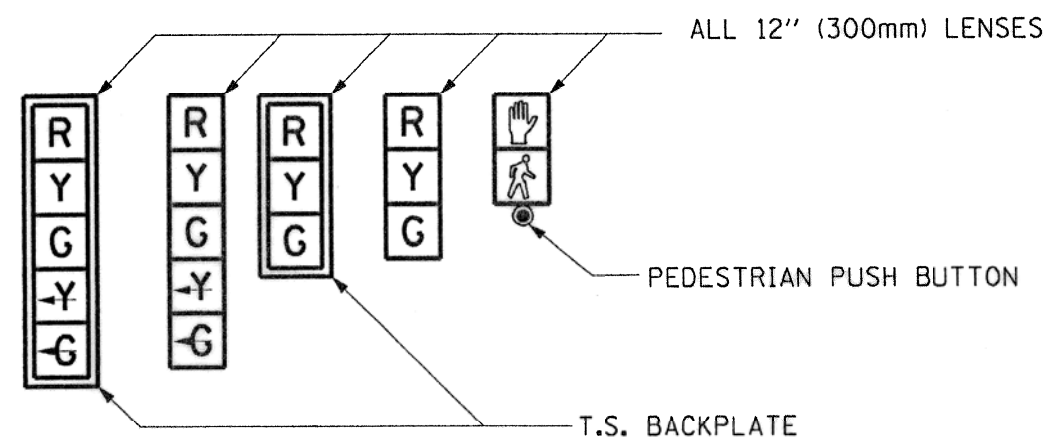
CLIENT: **Village of Wilmette**  
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 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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TITLE: **SUGGESTED MOT FOR WB LAKE AVENUE FOR INSTALLATION OF TEMPORARY TRAFFIC SIGNAL POLES ON NORTH SIDE OF LAKE AVENUE AND HUNTER ROAD**

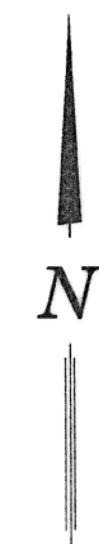
PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 159 OF 207  
 DRAWING NO. **159**

**SIGNAL FACES**



**SIGNAL LENSES**

- R RED
- Y YELLOW
- G GREEN
- Y- GREEN TURN INDICATOR
- G- GREEN TURN INDICATOR

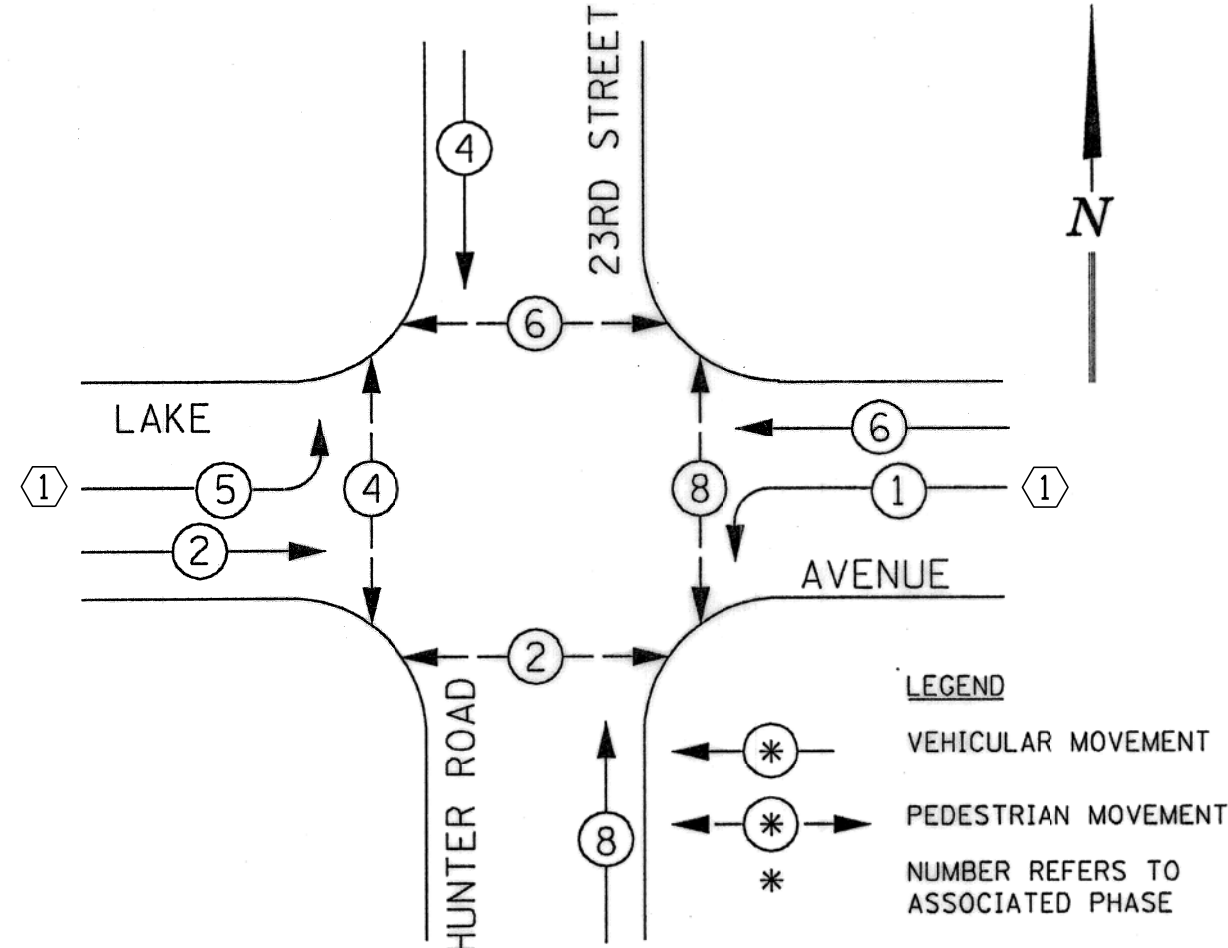


**CONSTRUCTION NOTES:**

- ① PHASES 1 AND 5 SHALL NOT BE IN OPERATION DURING THE WB MOT STAGE.
- ② THE LEFT TURN SIGNAL INDICATIONS ON LAKE AVENUE SHALL BE BAGGED AND DISABLED FOR THE WB MOT STAGE.
- ③ THE LEFT TURN DETECTOR LOOPS ON LAKE AVENUE SHALL BE DISABLED FOR THE WB MOT STAGE.

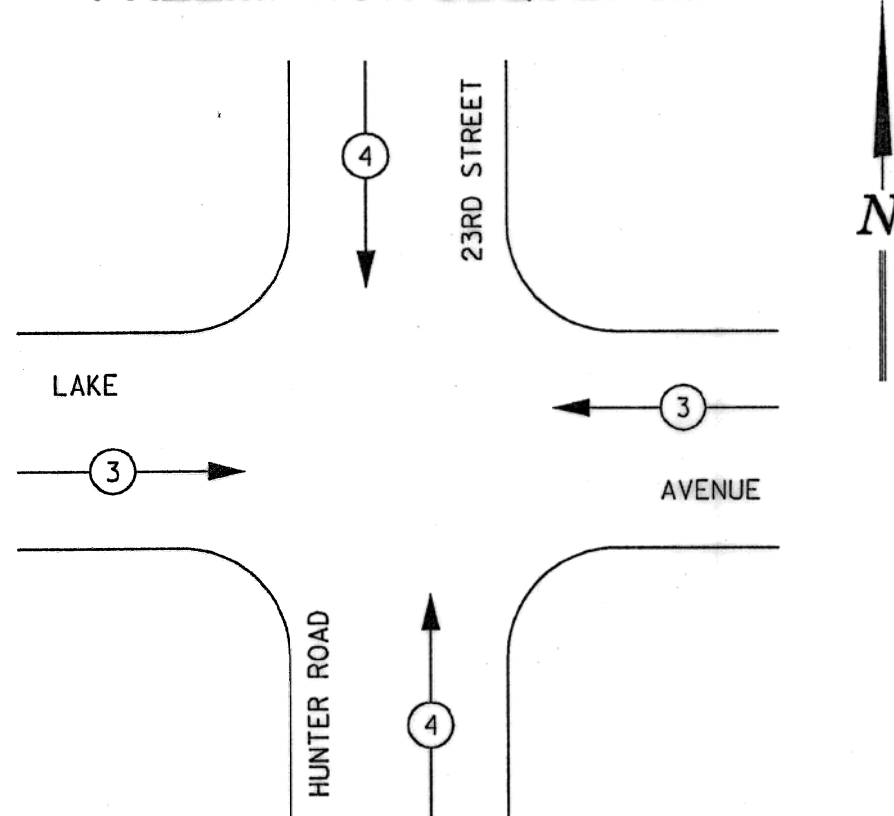
**23RD STREET**

**PROPOSED CONTROLLER SEQUENCE FOR SUGGESTED MOT**

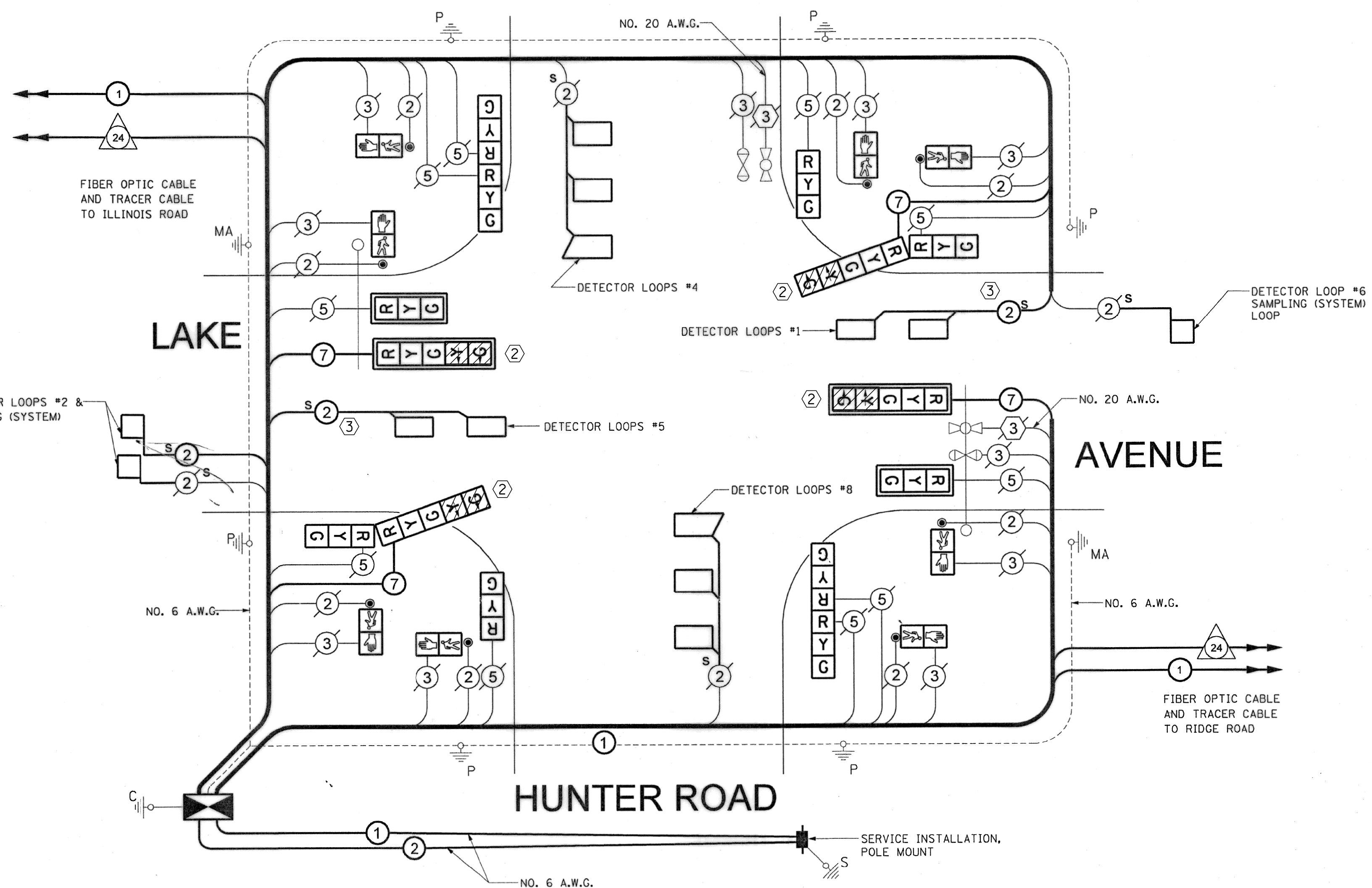


**PHASE DESIGNATION DIAGRAM**  
DUAL ENTRY - ALL LEGS  
PROTECTED / PERMITTED LEFT TURN PHASING

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EXISTING EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑



**CABLE PLAN**  
NOT TO SCALE

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CLIENT: **Village of Wilmette**  
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WILMETTE, IL 60091-0040

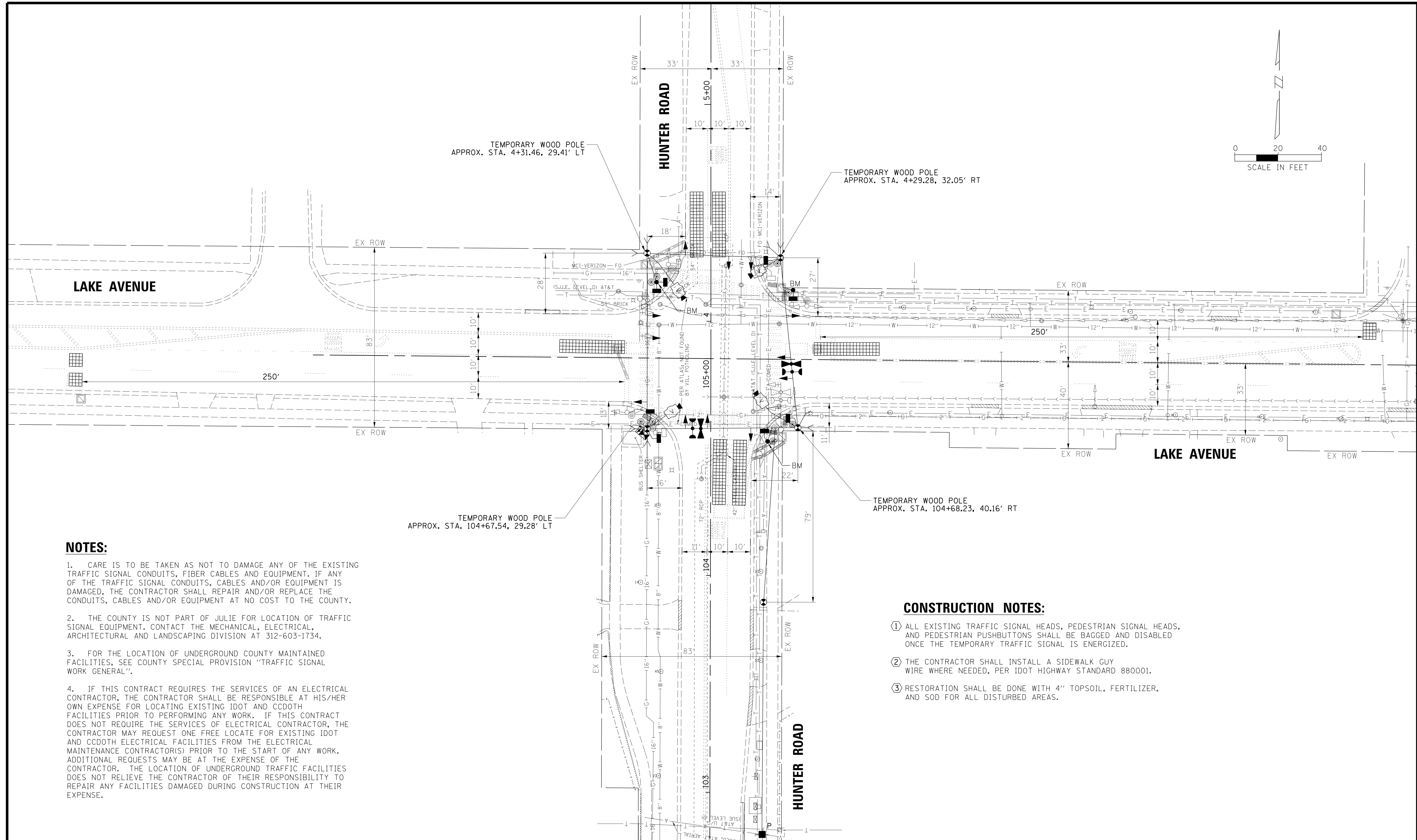
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:

FILE NAME: N:\wilmette\180245.00004\Traffic\12-TS.Lake-Hunter\_MOT-CAB.dgn

TITLE: **TEMP. CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE FOR SUGGESTED MOT ON LAKE AVENUE FOR INSTALLATION OF TEMP. TRAFFIC SIGNAL POLES LAKE AVENUE AND HUNTER ROAD**

PROJ. NO. 180245.0004  
DATE: 10/8/2021  
SHEET 160 OF 207  
DRAWING NO. **160**





**NOTES:**

1. CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUITS, FIBER CABLES AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUITS, CABLES AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUITS, CABLES AND/OR EQUIPMENT AT NO COST TO THE COUNTY.
2. THE COUNTY IS NOT PART OF JULIE FOR LOCATION OF TRAFFIC SIGNAL EQUIPMENT. CONTACT THE MECHANICAL, ELECTRICAL, ARCHITECTURAL AND LANDSCAPING DIVISION AT 312-603-1734.
3. FOR THE LOCATION OF UNDERGROUND COUNTY MAINTAINED FACILITIES, SEE COUNTY SPECIAL PROVISION "TRAFFIC SIGNAL WORK GENERAL".
4. IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT AND CCDOH FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT AND CCDOH ELECTRICAL FACILITIES FROM THE ELECTRICAL MAINTENANCE CONTRACTOR(S) PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

**CONSTRUCTION NOTES:**

- ① ALL EXISTING TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND PEDESTRIAN PUSHBUTTONS SHALL BE BAGGED AND DISABLED ONCE THE TEMPORARY TRAFFIC SIGNAL IS ENERGIZED.
- ② THE CONTRACTOR SHALL INSTALL A SIDEWALK GUY WIRE WHERE NEEDED, PER IDOT HIGHWAY STANDARD 880001.
- ③ RESTORATION SHALL BE DONE WITH 4" TOPSOIL, FERTILIZER, AND SOD FOR ALL DISTURBED AREAS.

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CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
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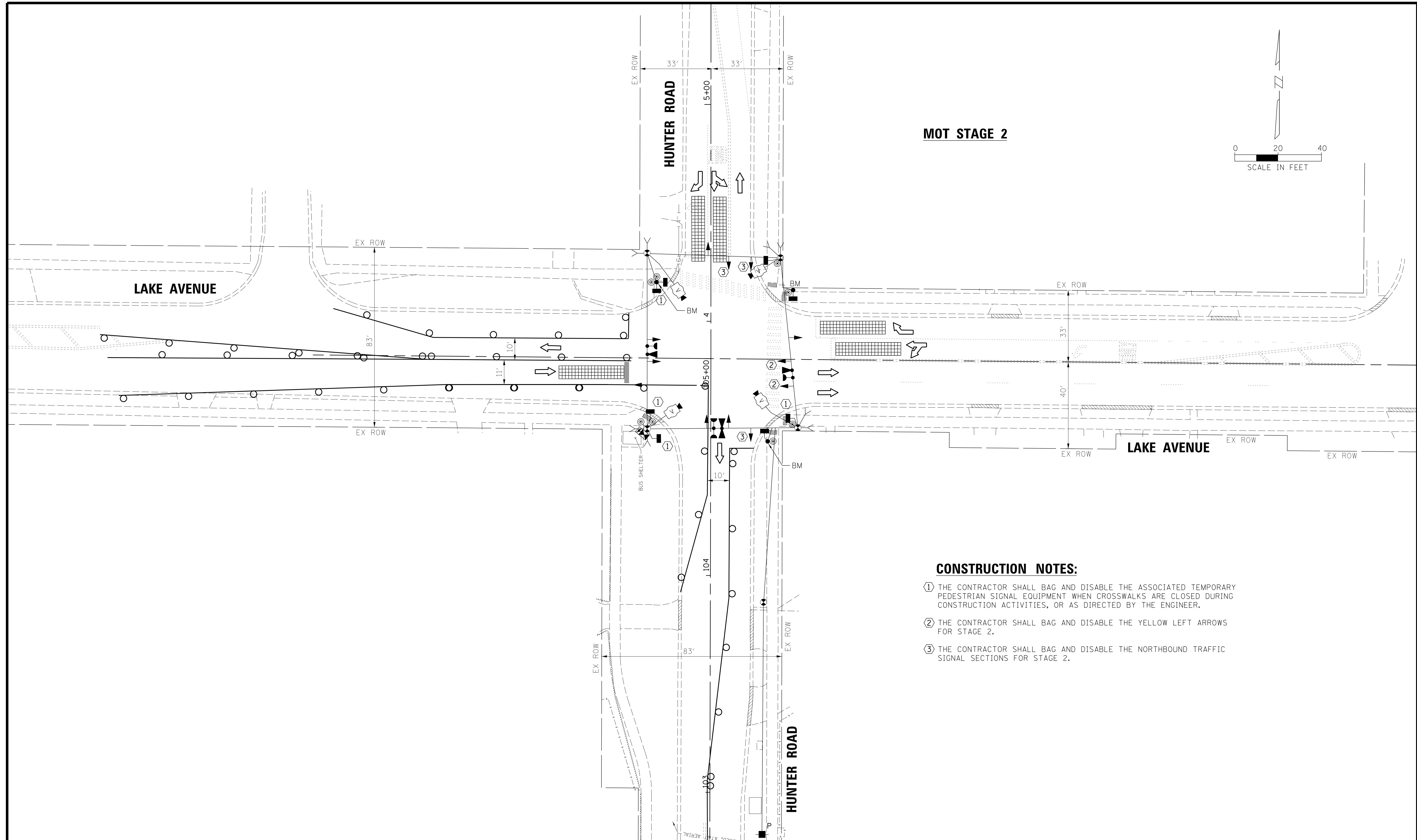
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DSGN.	BC
DWN.	FPB
CHKD.	GMZ
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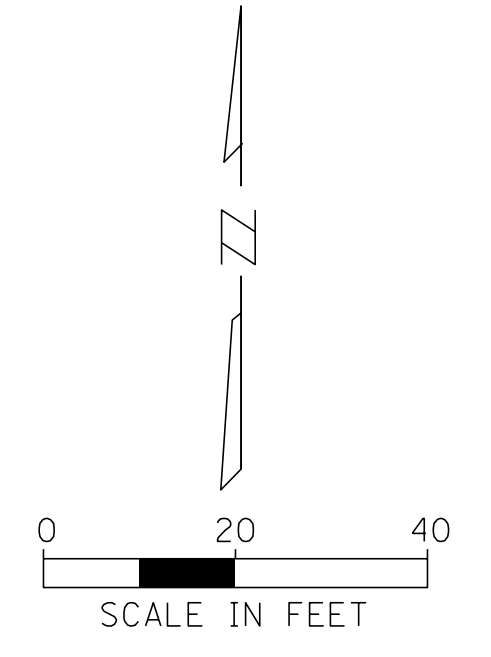
TITLE: **EXISTING CONDITIONS  
 TEMP. TRAFFIC SIGNAL INSTALLATION  
 LAKE AVENUE AND HUNTER ROAD**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 161 OF 207  
 DRAWING NO. **161**





**MOT STAGE 2**



**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL BAG AND DISABLE THE ASSOCIATED TEMPORARY PEDESTRIAN SIGNAL EQUIPMENT WHEN CROSSWALKS ARE CLOSED DURING CONSTRUCTION ACTIVITIES, OR AS DIRECTED BY THE ENGINEER.
- ② THE CONTRACTOR SHALL BAG AND DISABLE THE YELLOW LEFT ARROWS FOR STAGE 2.
- ③ THE CONTRACTOR SHALL BAG AND DISABLE THE NORTHBOUND TRAFFIC SIGNAL SECTIONS FOR STAGE 2.

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NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
FILE NAME	N:\wilmette\180245.0004\Traffic\15-TS.Lake-Hunter_MOT Stage 2.dgn			

TITLE: **MOT STAGE 2  
 TEMP. TRAFFIC SIGNAL INSTALLATION  
 LAKE AVENUE AND HUNTER ROAD**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 163 OF 207  
 DRAWING NO. **163**






**TEMPORARY TRAFFIC SIGNAL INSTALLATION NOTES:**

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300MM). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD. IF THE EXISTING INTERSECTION HAS AN ILLUMINATED STREET NAME SIGNS THE CONTRACTOR SHALL FURNISH STANDARD NON-ILLUMINATED SIGNS FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER. UPON COMPLETION OF PERMANENT TRAFFIC SIGNAL WORK, ALL STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AND RELOCATED TO PERMANENT TRAFFIC SIGNAL POLES AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- ANY TEMPORARY TRAFFIC SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. ALL PERMANENT TRAFFIC SIGNAL SECTIONS SHALL BE BAGGED OR REMOVED WHILE THE TEMPORARY TRAFFIC SIGNAL IS OPERATION.
- ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ALL SIGNAL HEADS TO AGREE WITH CONSTRUCTION STAGING AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER AND IS CONSIDERED TO BE PART OF THE PAY ITEM TEMPORARY TRAFFIC SIGNAL INSTALLATION. IF THERE IS UTILITY CONFLICT, SIGNAL HEAD CAN BE PUT HORIZONTALLY.
- IF TEMPORARY TRAFFIC SIGNALS CONFLICT WITH THE PERMANENT TRAFFIC SIGNALS, THE MAST ARMS SHALL BE ROTATED OR REMOVED AND STORED OUTSIDE OF R.O.W. AND WILL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP EQUIPMENT SAFE. THIS IS INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

**ESTIMATED BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
SPAN WIRE	FOOT	503
TETHER WIRE	FOOT	304
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	317
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	330
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 2C	FOOT	930
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	1094
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	836
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	394
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
CONFIRMATION BEACON	EACH	2
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	189
TEMPORARY TRAFFIC SIGNAL, WOOD POLE	EACH	5
TEMPORARY TRAFFIC SIGNAL POST, BARREL MOUNTED	EACH	3
VIDEO DETECTION SYSTEM COMPLETE	EACH	1
FULL-ACTUATED CONTROLLER AND CABINET, COMPLETE	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE 5-SECTION, SPAN WIRE MOUNTED	EACH	4

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 WILMETTE, IL 60091-0040

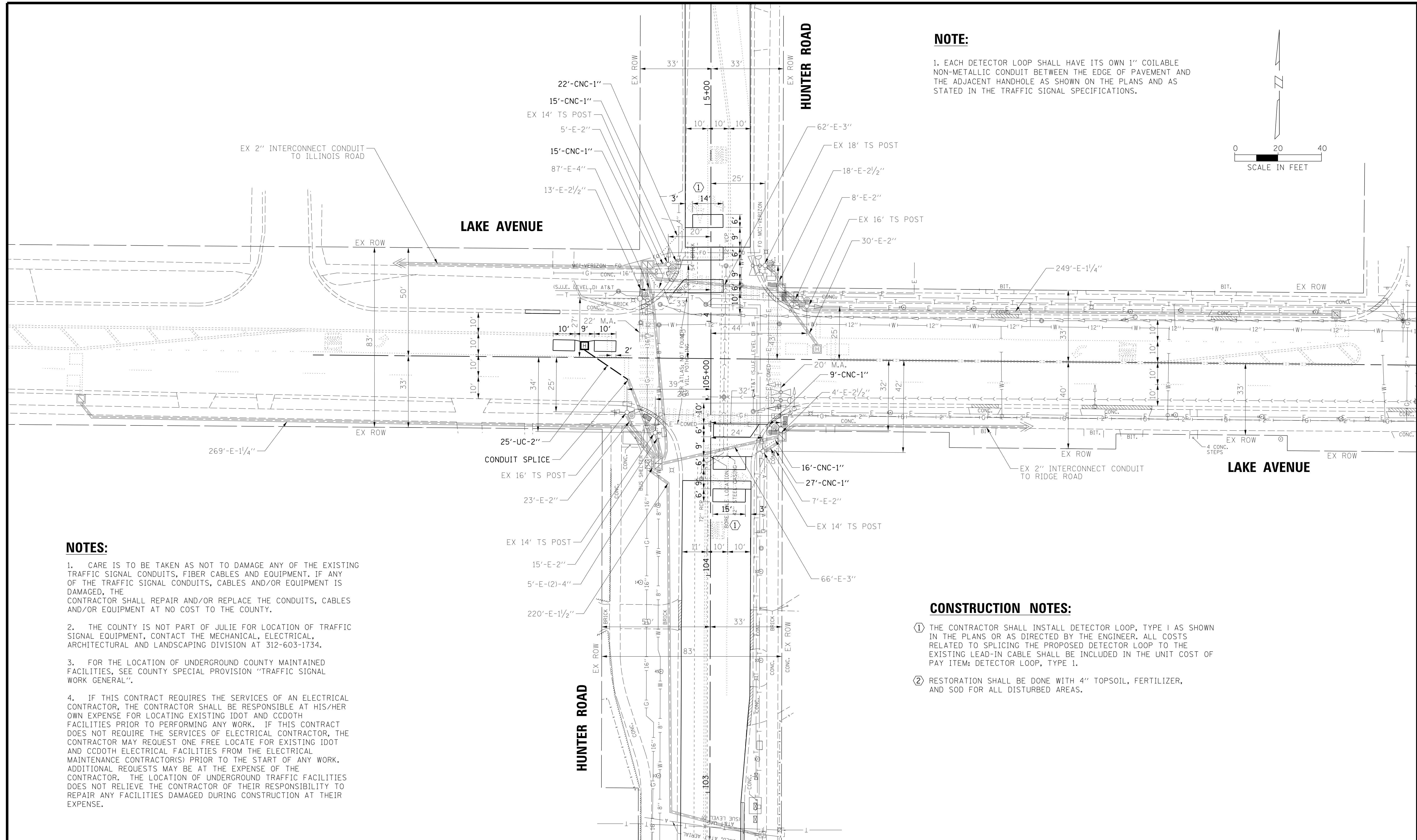
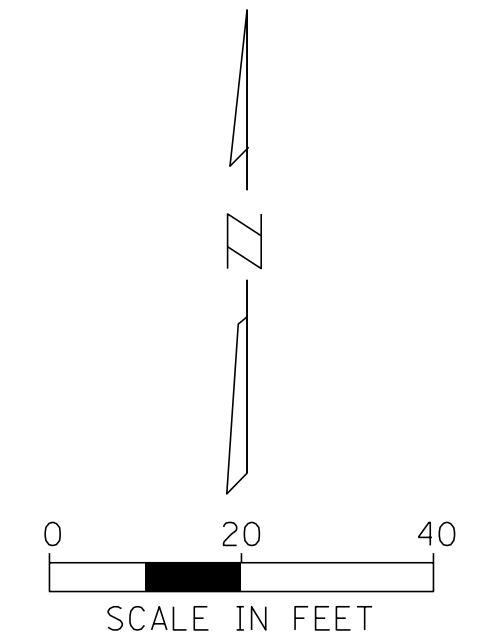
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
FILE NAME	N:\wilmette\180245.00004\Traffic\18-TS.Lake-Hunter_TMP-Notes.dgn			

TITLE: **TEMPORARY TRAFFIC SIGNAL INSTALLATION NOTES AND ESTIMATED BILL OF MATERIAL LAKE AVENUE AND HUNTER ROAD**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 166 OF 207  
 DRAWING NO. **166**

**NOTE:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.



**NOTES:**

- CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUITS, FIBER CABLES AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUITS, CABLES AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUITS, CABLES AND/OR EQUIPMENT AT NO COST TO THE COUNTY.
- THE COUNTY IS NOT PART OF JULIE FOR LOCATION OF TRAFFIC SIGNAL EQUIPMENT, CONTACT THE MECHANICAL, ELECTRICAL, ARCHITECTURAL AND LANDSCAPING DIVISION AT 312-603-1734.
- FOR THE LOCATION OF UNDERGROUND COUNTY MAINTAINED FACILITIES, SEE COUNTY SPECIAL PROVISION "TRAFFIC SIGNAL WORK GENERAL".
- IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT AND CCDOH FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT AND CCDOH ELECTRICAL FACILITIES FROM THE ELECTRICAL MAINTENANCE CONTRACTOR(S) PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

**CONSTRUCTION NOTES:**

- THE CONTRACTOR SHALL INSTALL DETECTOR LOOP, TYPE I AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. ALL COSTS RELATED TO SPLICING THE PROPOSED DETECTOR LOOP TO THE EXISTING LEAD-IN CABLE SHALL BE INCLUDED IN THE UNIT COST OF PAY ITEM: DETECTOR LOOP, TYPE 1.
- RESTORATION SHALL BE DONE WITH 4" TOPSOIL, FERTILIZER, AND SOD FOR ALL DISTURBED AREAS.

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 Rosemont, Illinois 60018  
 (847) 823-0500



CLIENT:



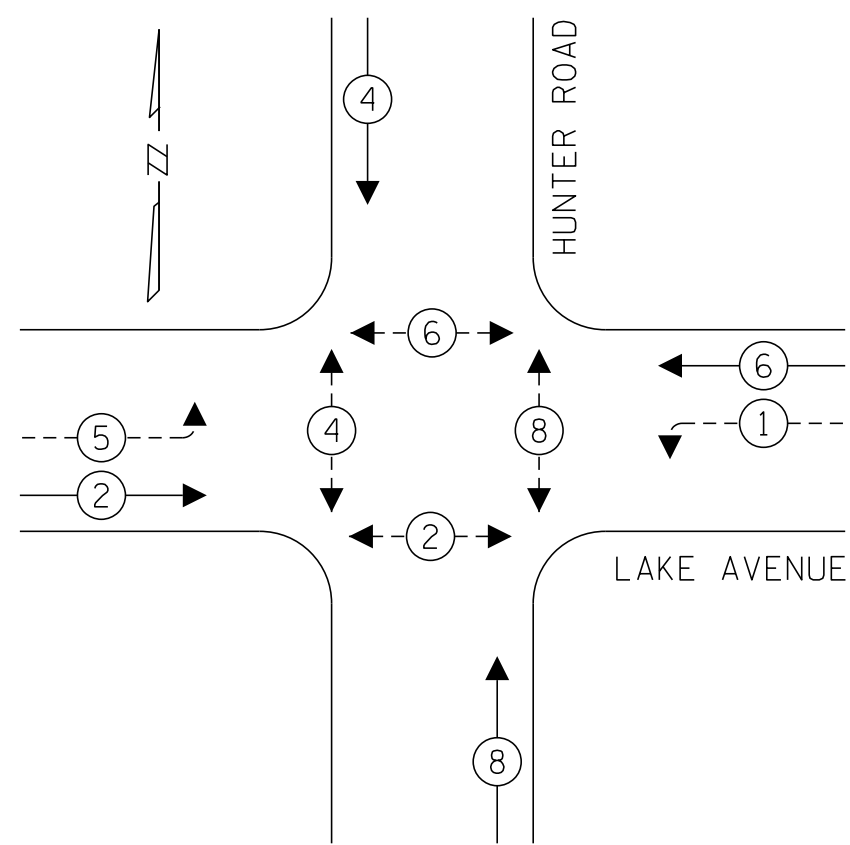
**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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DSGN.	BC			
DWN.	FPB			
CHKD.	GMZ			
SCALE:	20'			
PLOT DATE:	10/8/2021			
CAD USER:	mkoonce			
MODEL:	default			

TITLE:  
**TRAFFIC SIGNAL MODIFICATION  
 LAKE AVENUE AND HUNTER ROAD**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 167 OF 207  
 DRAWING NO.  
**167**

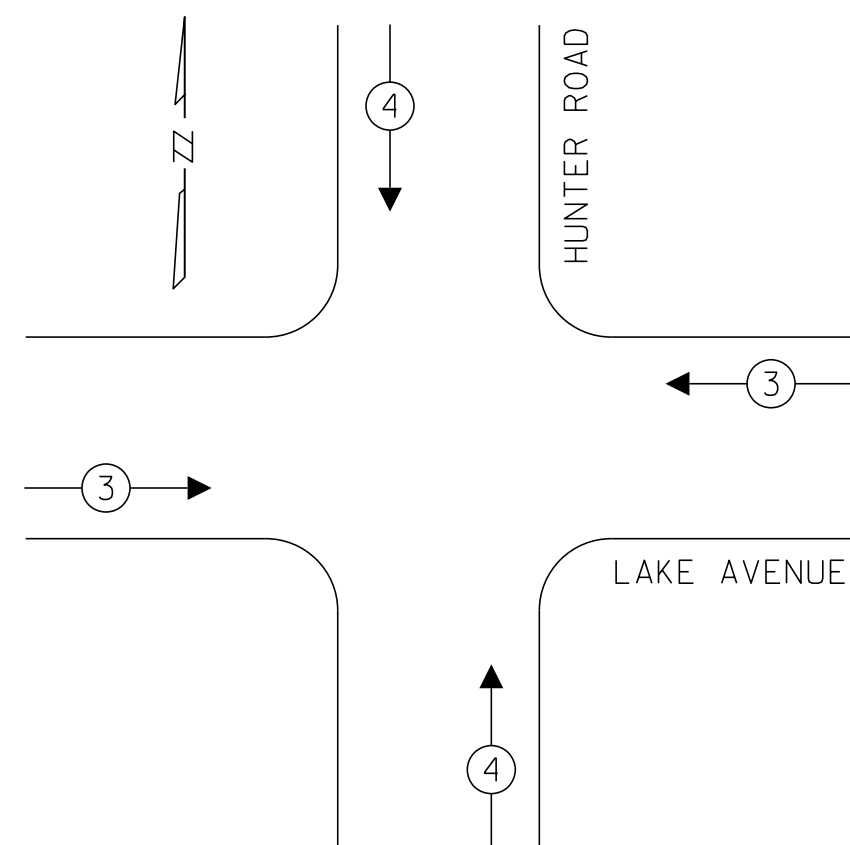
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ←(\*) PROTECTED PHASE
- ←(\*)--- PROTECTED/PERMITTED PHASE
- ←(\*)→ PEDESTRIAN PHASE
- OL OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**

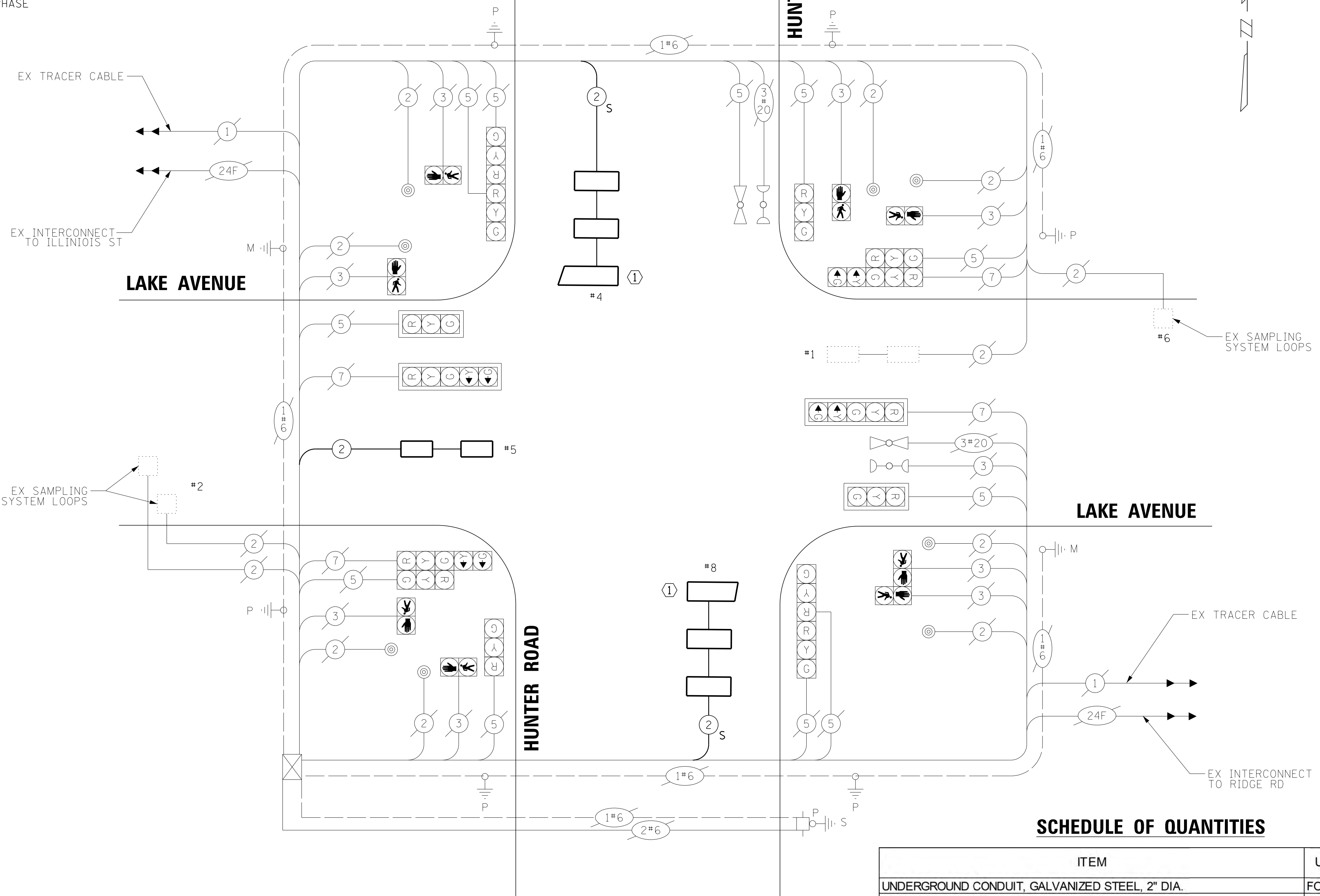


EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	←→	↓↑	

<b>LOCATION: LAKE AVENUE AND HUNTER ROAD</b> <b>COOK COUNTY</b> <b>DEPARTMENT OF TRANSPORTATION AND HIGHWAYS</b> <b>TRAFFIC SIGNAL INSTALLATION</b> <b>ELECTRICAL SERVICE REQUIREMENTS</b>				
TYPE	NO. LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
CONTROLLER	1	100	1.00	100.00
VEHICLE DET.	7	5	1.00	35.00
PED. SIGNAL	8	25	1.00	200.00
12" SIGNAL (RED)	14	17	0.50	119.00
(YELLOW)	14	25	0.05	17.50
(GREEN)	14	15	0.45	94.50
(ARROW)	4	12	0.10	4.80
<b>TOTAL =</b>				<b>570.80</b>
<b>ENERGY COST TO:</b>		<b>ENERGY COST SHARE:</b>		
COOK COUNTY BUREAU OF ADMINISTRATION 118 N. CLARK STREET, ROOM 801 CHICAGO, IL 60602 TOWER ACCOUNT NO. <u>4582159013</u> SUPPLEMENT NO. <u>ND150565</u>		COOK COUNTY: 50%		
VILLAGE OF WILMETTE 1200 WILMETTE AVE WILMETTE, IL 60091		WILMETTE: 50%		
<b>ENERGY SUPPLY CONTACT:</b> ComEd PHONE: (866)639-3532 COMPANY: ComEd		<b>EFFECTIVE DATE:</b> TO BE DETERMINED		

**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL DETECTOR LOOP, TYPE I AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. ALL COSTS RELATED TO SPLICING THE PROPOSED DETECTOR LOOP TO THE EXISTING LEAD-IN CABLE SHALL BE INCLUDED IN THE UNIT COST OF PAY ITEM: DETECTOR LOOP, TYPE I.



**CABLE PLAN**  
(NOT TO SCALE)

**SCHEDULE OF QUANTITIES**

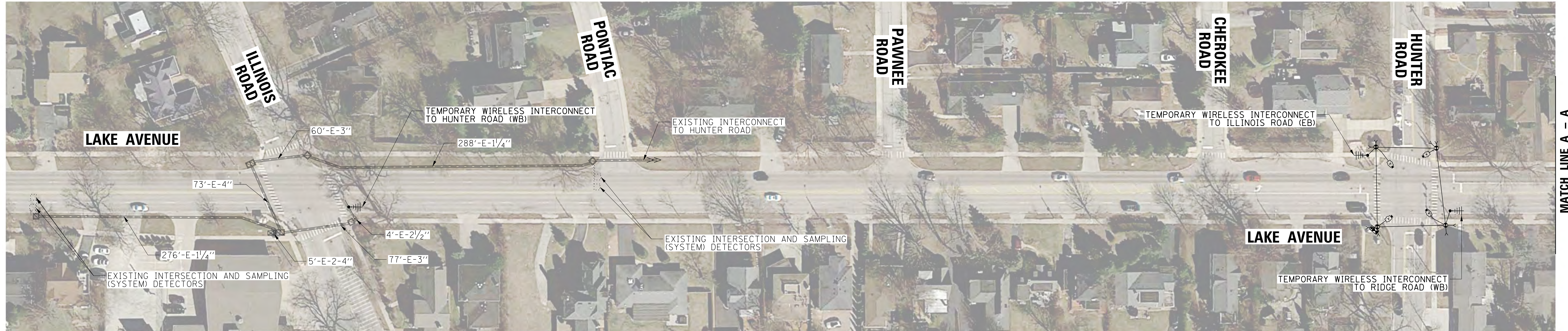
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	25
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	416
DETECTOR LOOP, TYPE I	FOOT	358
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	305
REMOVE EXISTING HANDHOLE	EACH	1
CONDUIT SPLICE	EACH	1
* TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4

\* UPON THE CONTRACTOR INSTALLING THE DETOUR ROUTE, THE CONTRACTOR SHALL ADJUST THE EXISTING TRAFFIC SIGNAL TIMINGS AND AS DIRECTED BY THE ENGINEER AT THE FOLLOWING INTERSECTIONS: HUNTER RD AT WILMETTE AVE, WILMETTE AVE AT RIDGE RD, AND RIDGE RD AT LAKE AVE.

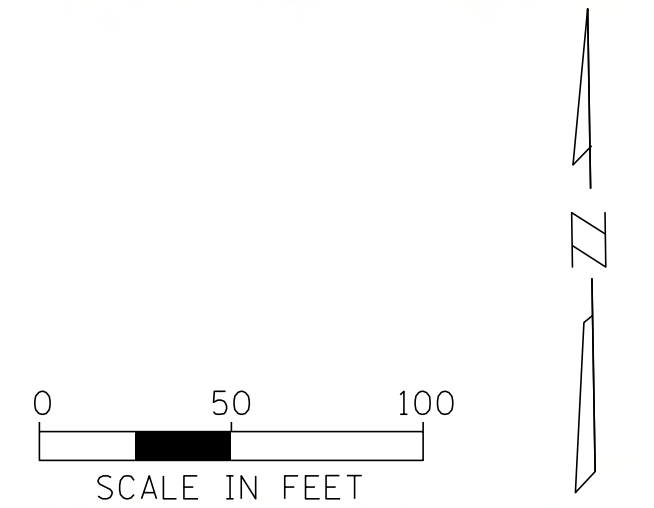
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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FILE NAME: N:\wilmette\180245.00004\Traffic\20-TS.Lake-Hunter\_CAB.dgn





MATCH LINE A - A



MATCH LINE A - A

MATCH LINE B - B

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 Rosemont, Illinois 60018  
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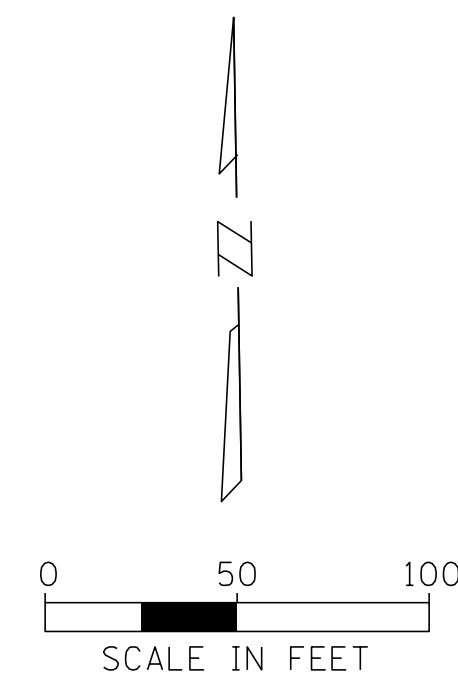
**BAXTER & WOODMAN**  
 Consulting Engineers

CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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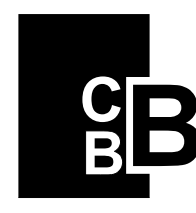

TITLE: **TEMPORARY INTERCONNECT PLAN  
 (SHEET 1 OF 2)  
 LAKE AVENUE FROM ILLINOIS ROAD  
 TO RIDGE ROAD**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 169 OF 207  
 DRAWING NO.  
**169**



MATCH LINE B - B

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

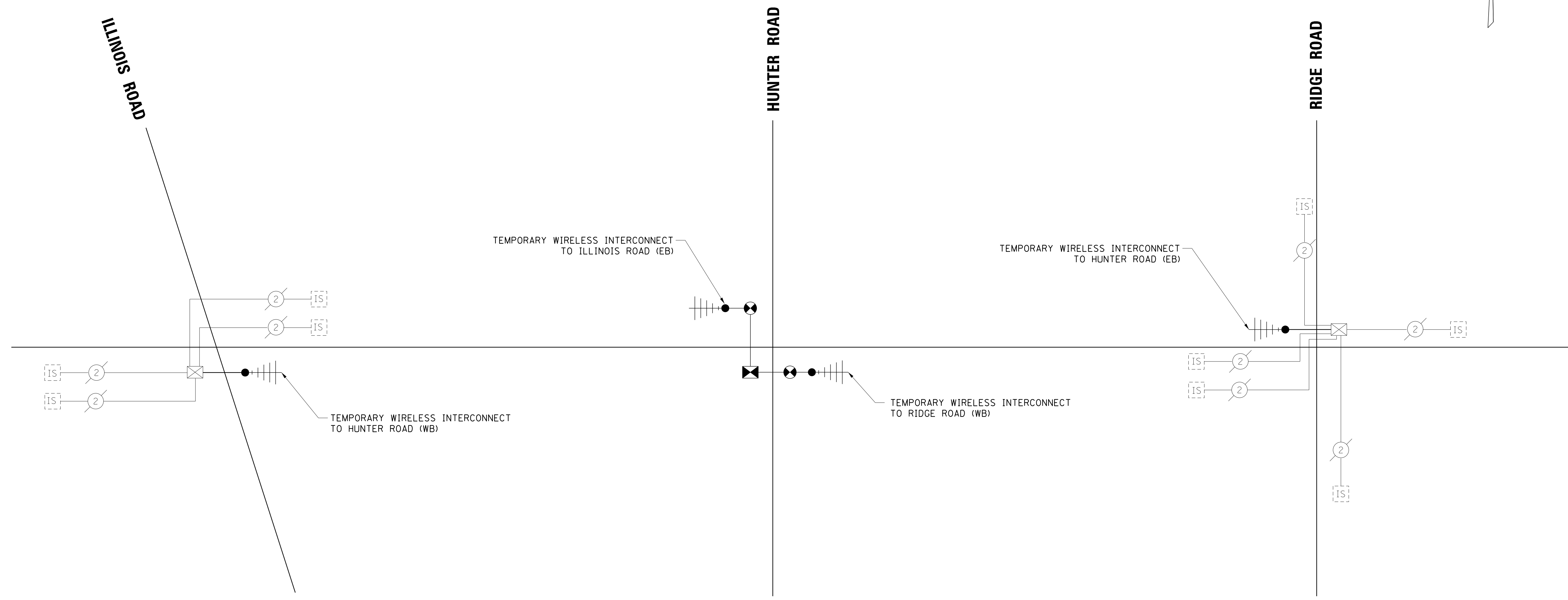
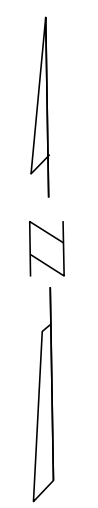



CLIENT:  **Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
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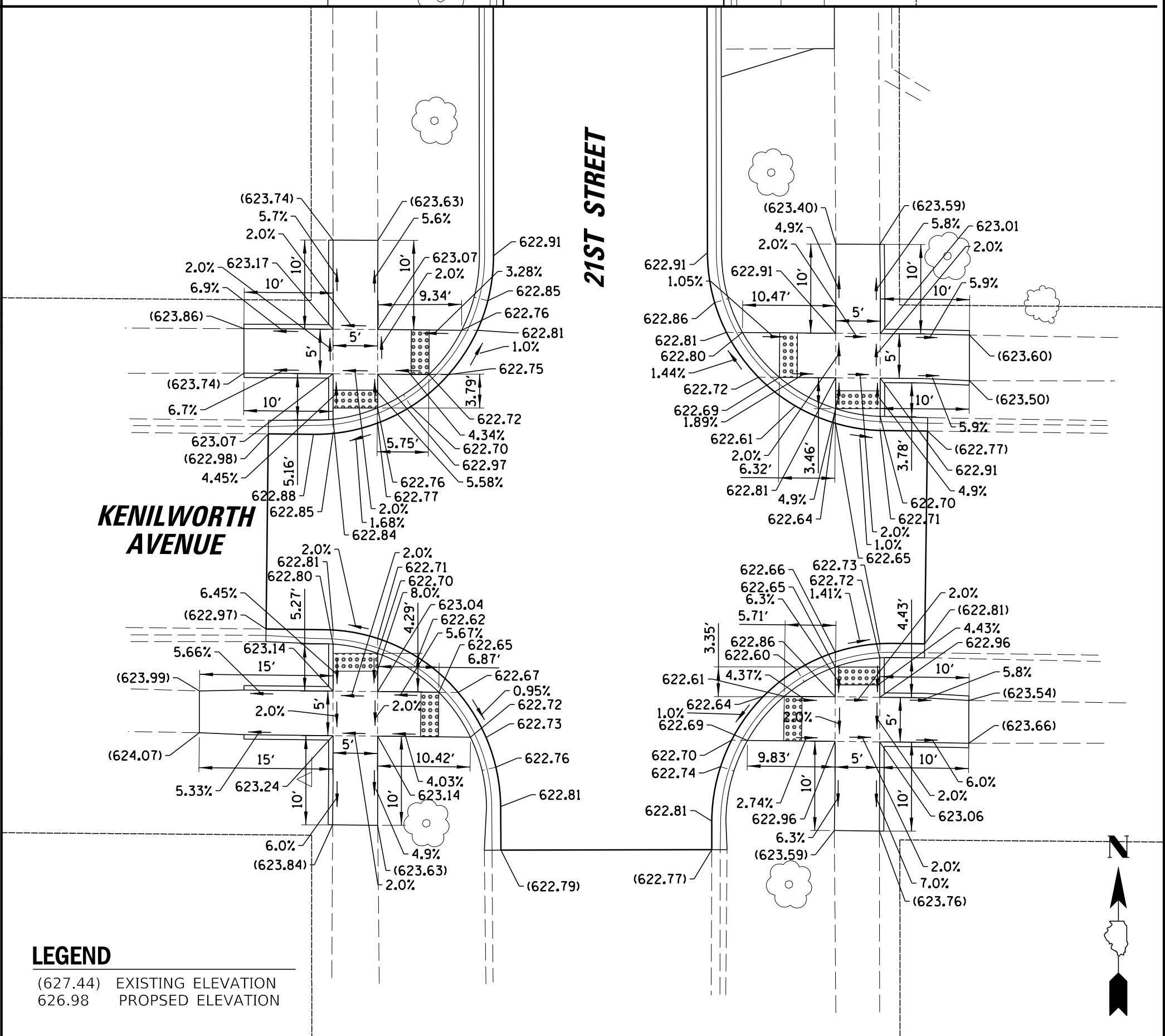
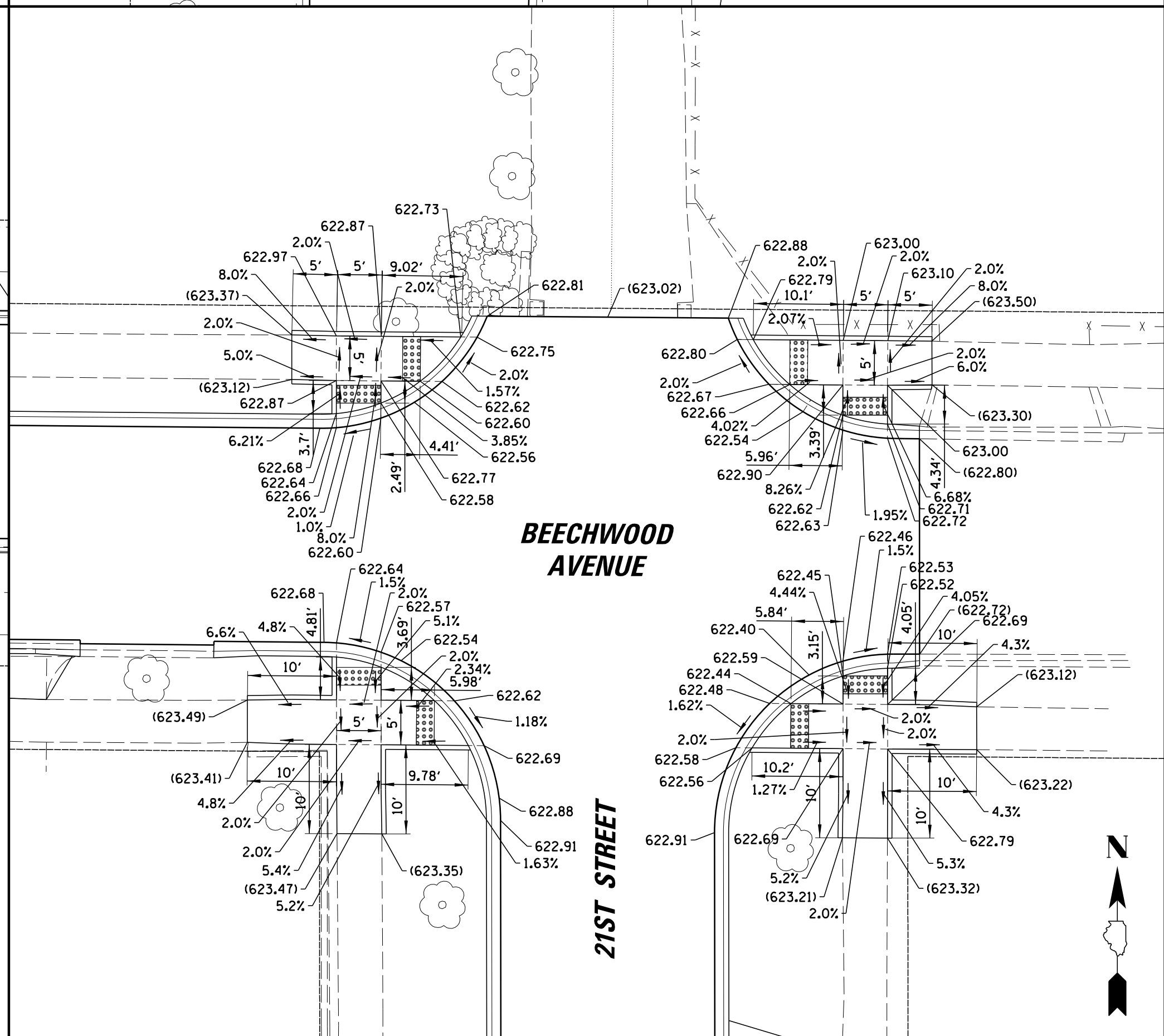
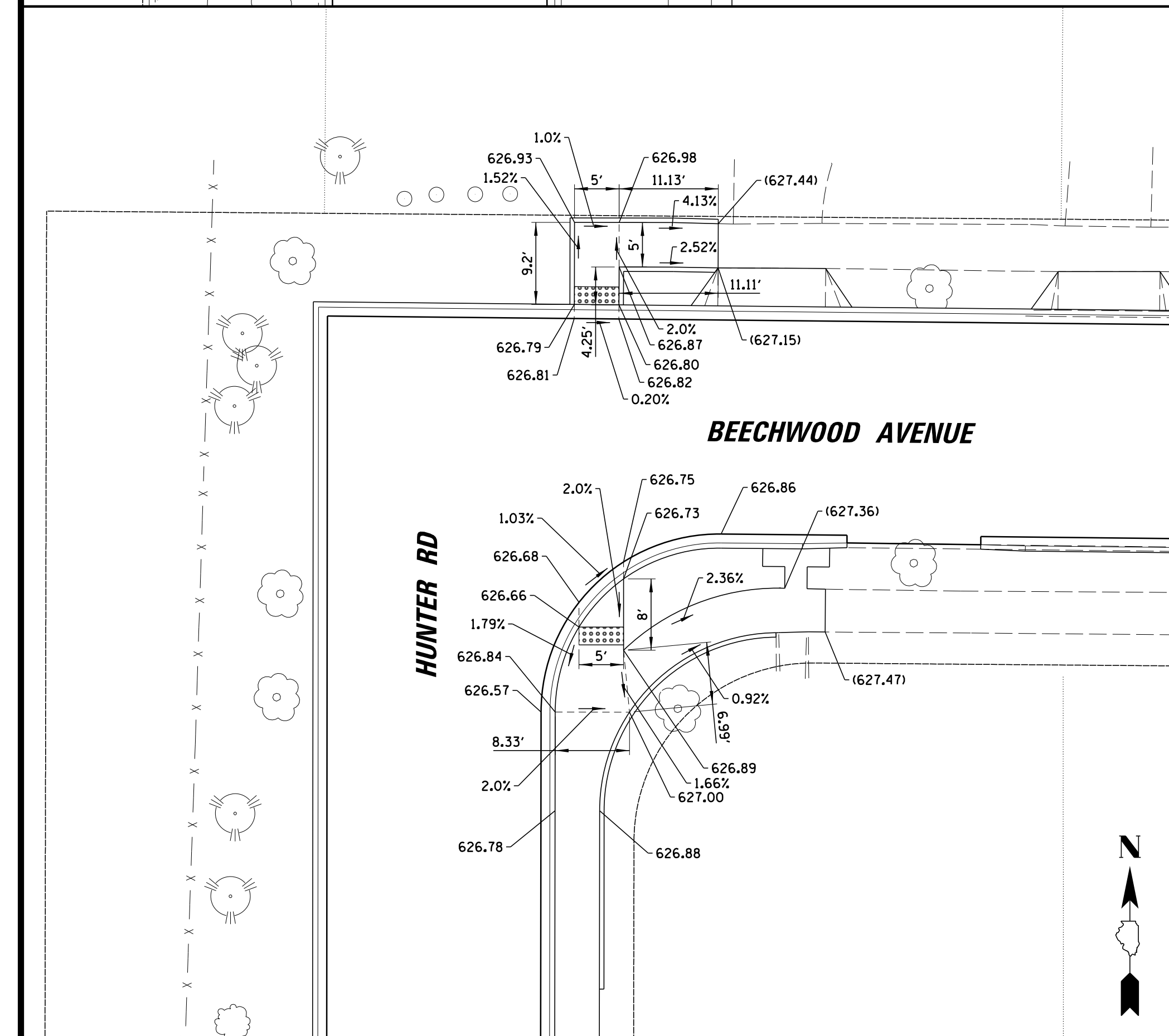
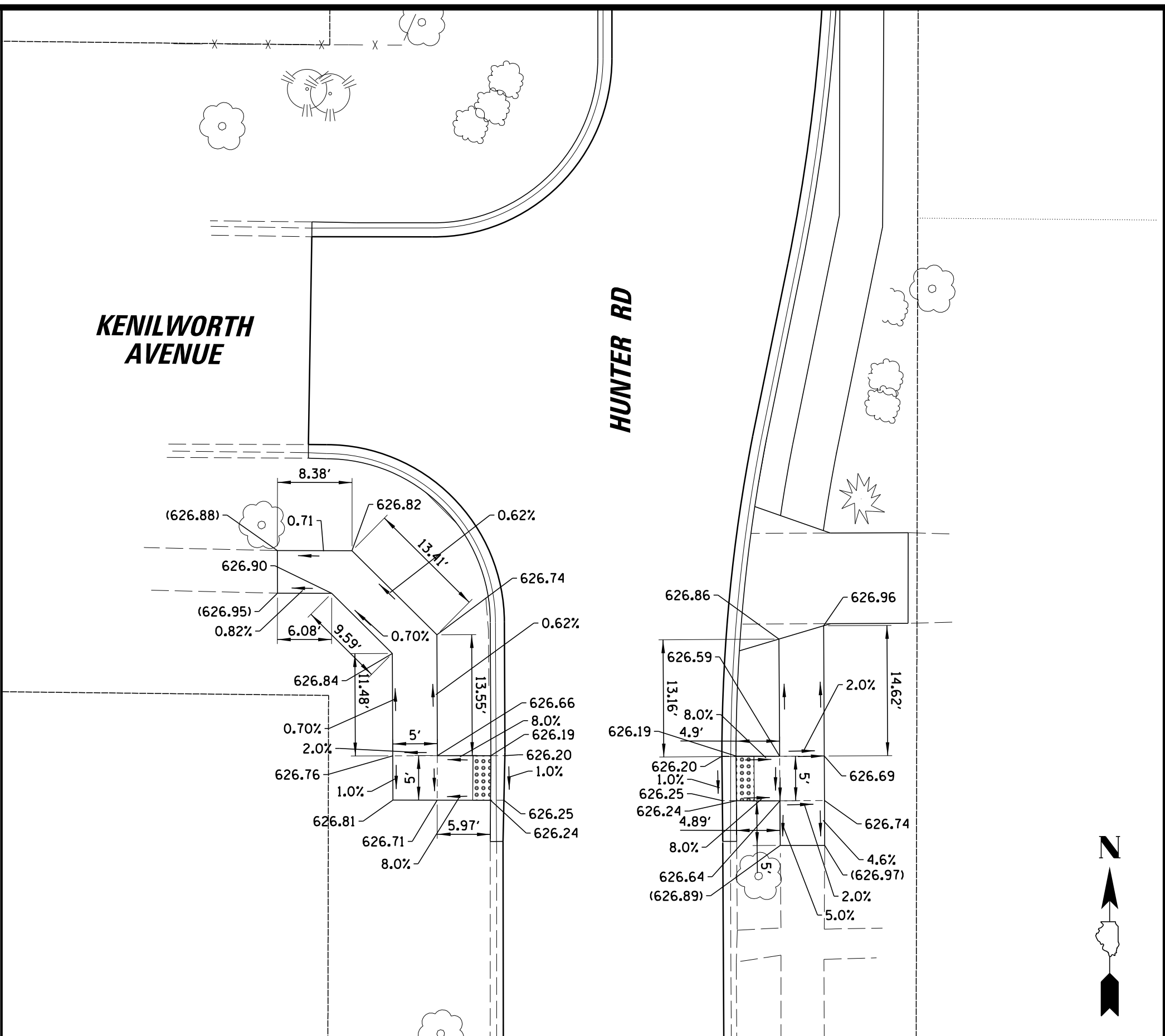
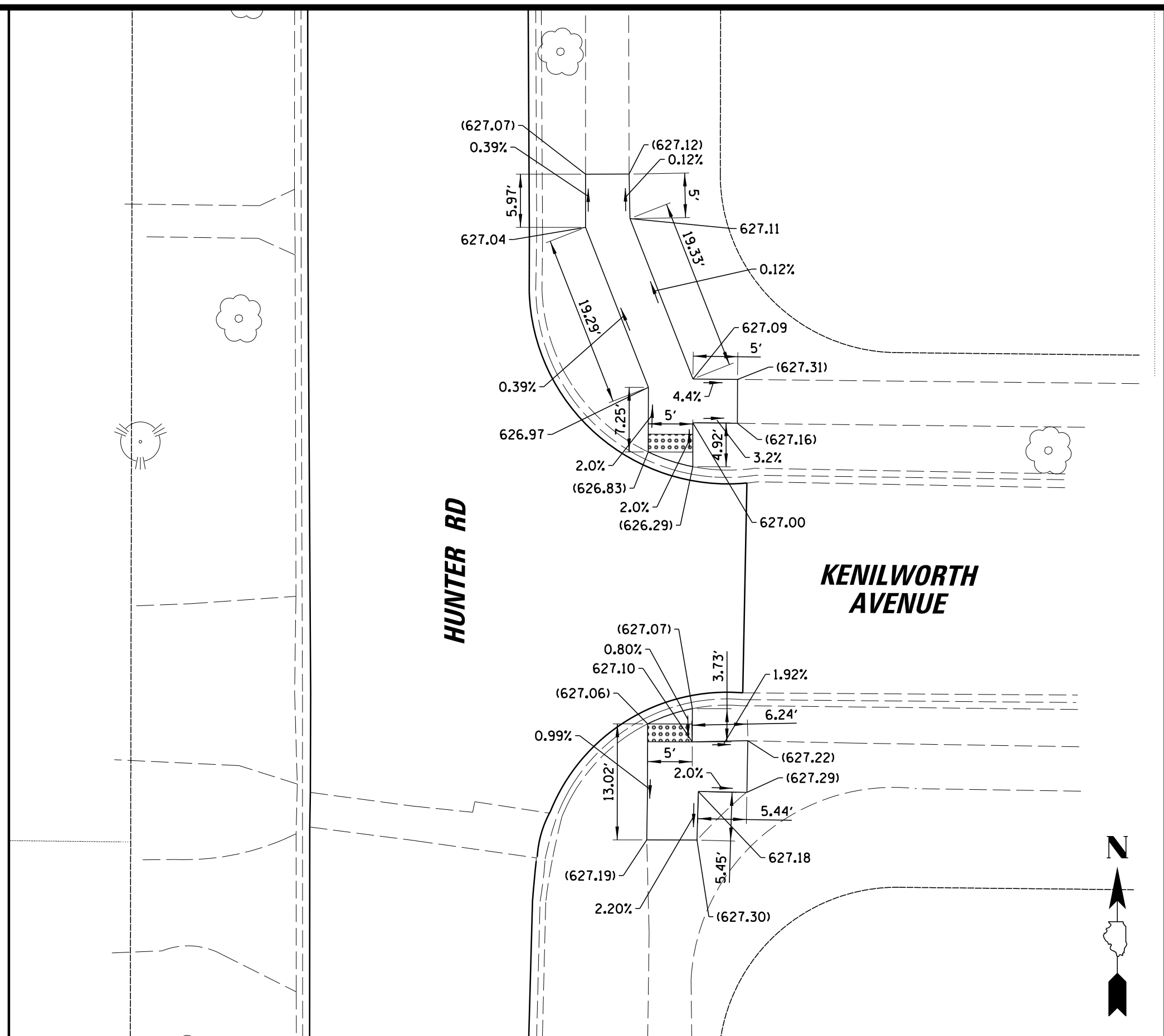
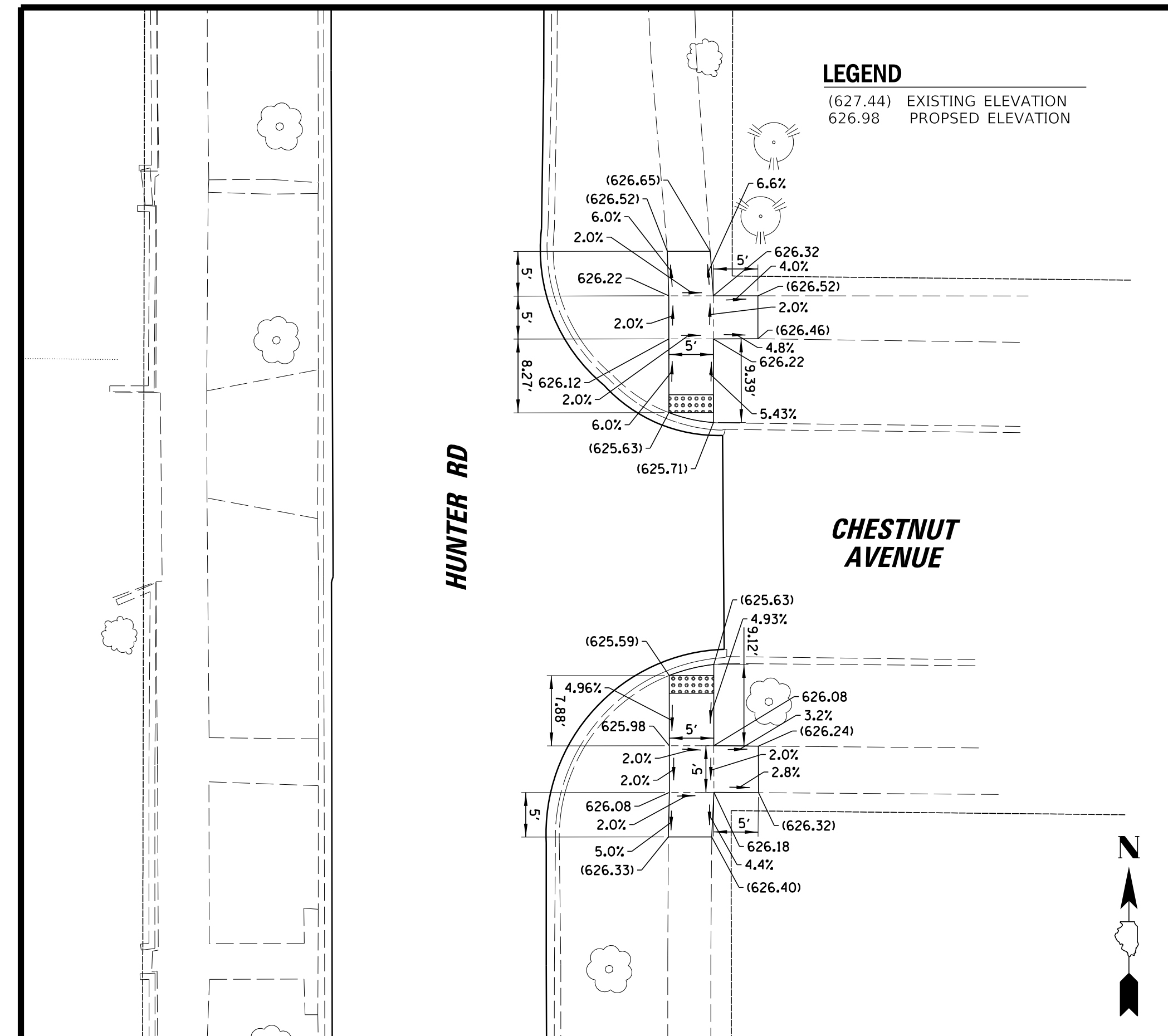
TITLE: **TEMPORARY INTERCONNECT PLAN  
 (SHEET 2 OF 2)  
 LAKE AVENUE FROM ILLINOIS ROAD  
 TO RIDGE ROAD**

PROJ. NO. 180245.0004  
 DATE: 10/8/2021  
 SHEET 170 OF 207  
 DRAWING NO.  
**170**



NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
				default
FILE NAME	N:\wilmette\180245.00004\Traffic\23-TS_TMP_SCH.dgn			





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**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

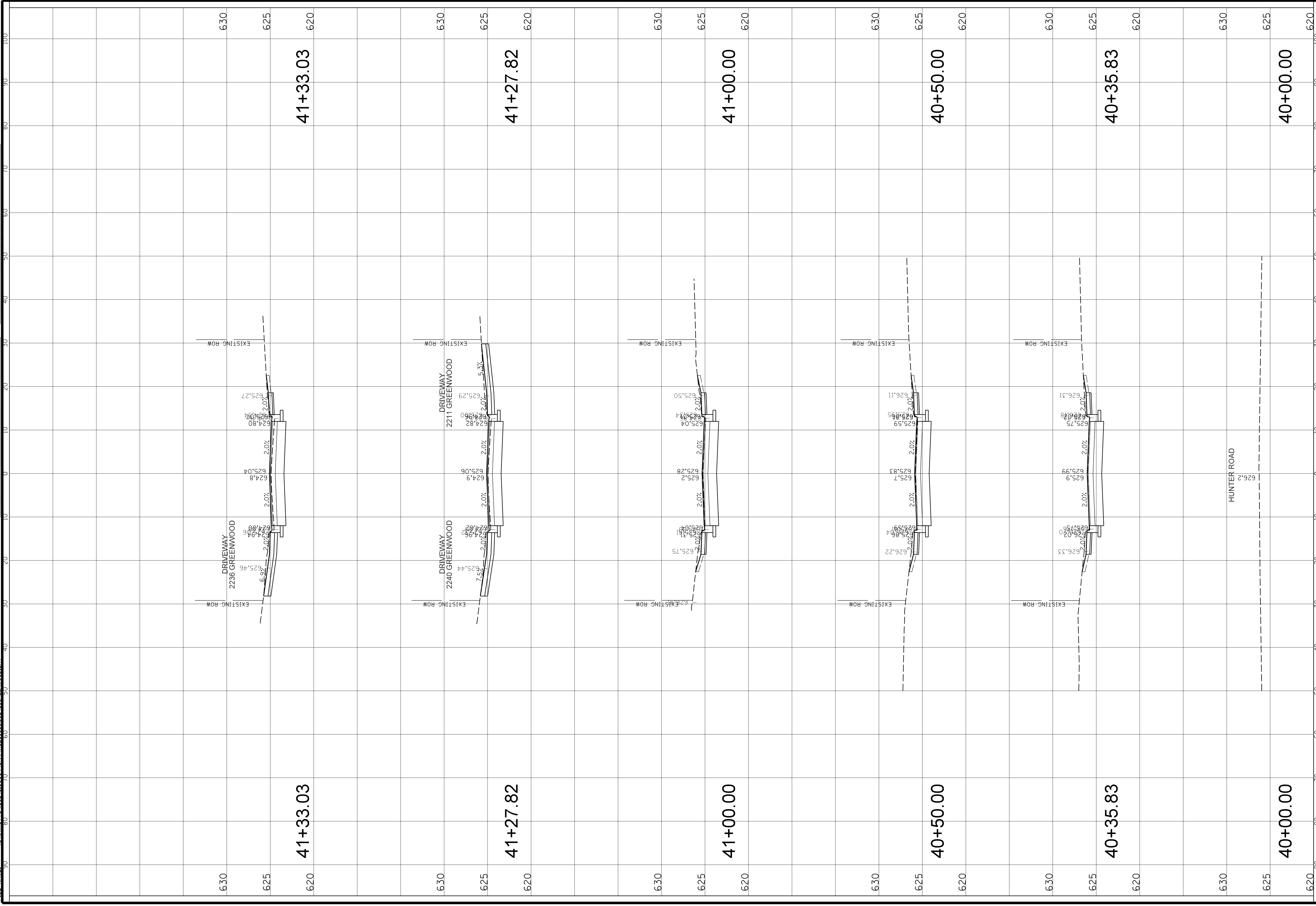
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DSGN.	JAL	TITLE:	PROJ. NO.
DWN.	MAK		180245.0004
CHKD.	LMF	DATE:	10/8/2021
SCALE:	12'	SHEET	173 OF 207
PLOT DATE:	10/8/2021	DRAWING NO.	173
CAD USER:	mkoonce		
MODEL:	Default		

**WSNSP CONTRACT #3  
 LOCAL ROADS  
 ADA RAMP PLANS**



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**CB**  
**ENGINEERING**

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**Client:**  
**Village of Wilmette**  
 1200 WILMETTE AVENUE  
 WILMETTE, IL 60091-0040

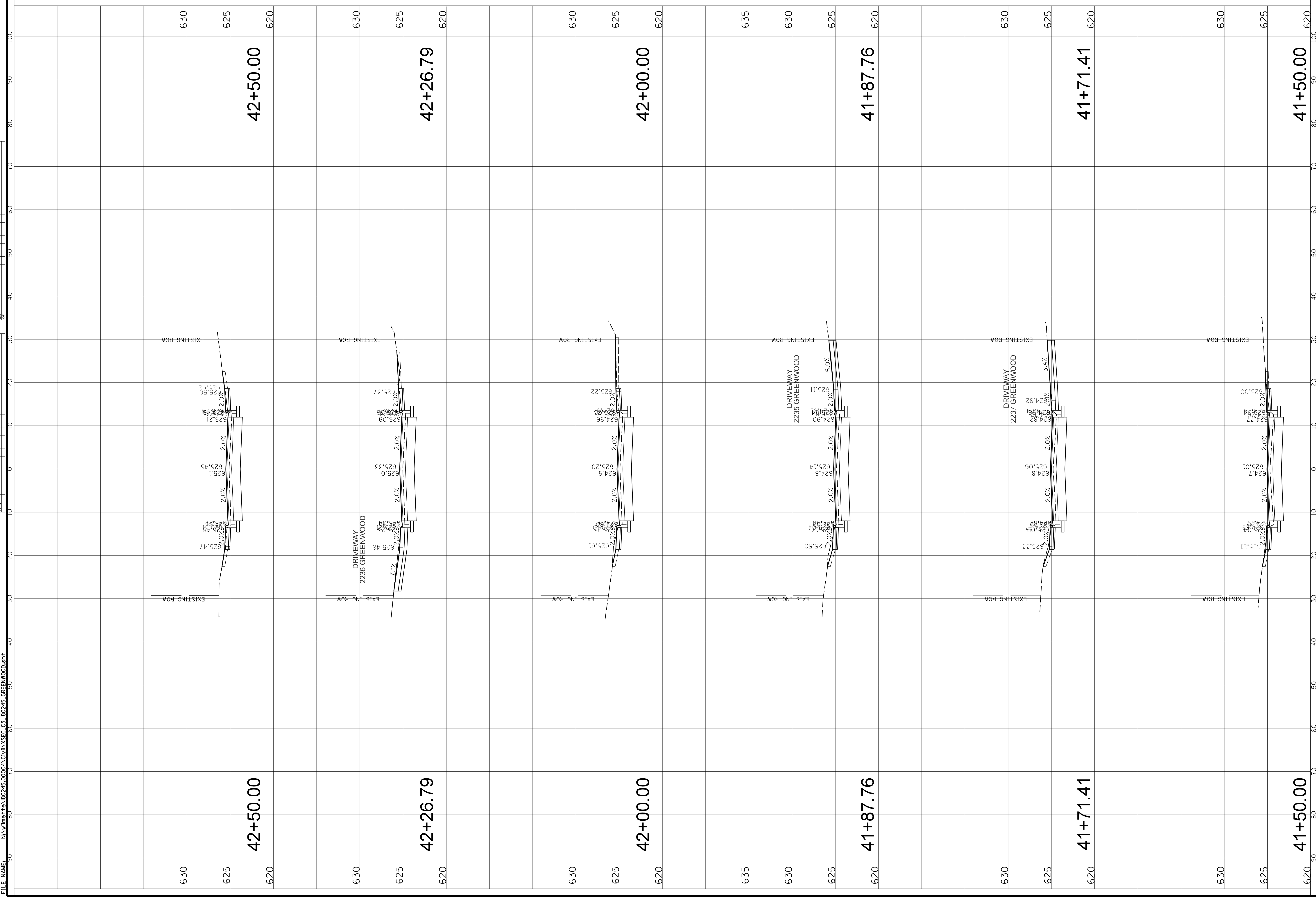
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DWN.				10	5	10/8/2021	rhinoace	DeFault

**Project No. 180245.0004**  
**DATE: 10/8/2021**  
**SHEET 175 OF 207**  
**DRAWING NO.**

**GREENWOOD AVE**  
**STA. 40 + 00.00 - STA. 41 + 33.03**  
**CROSS SECTIONS**

NO.	DATE	BY	CHKD.	DESC.

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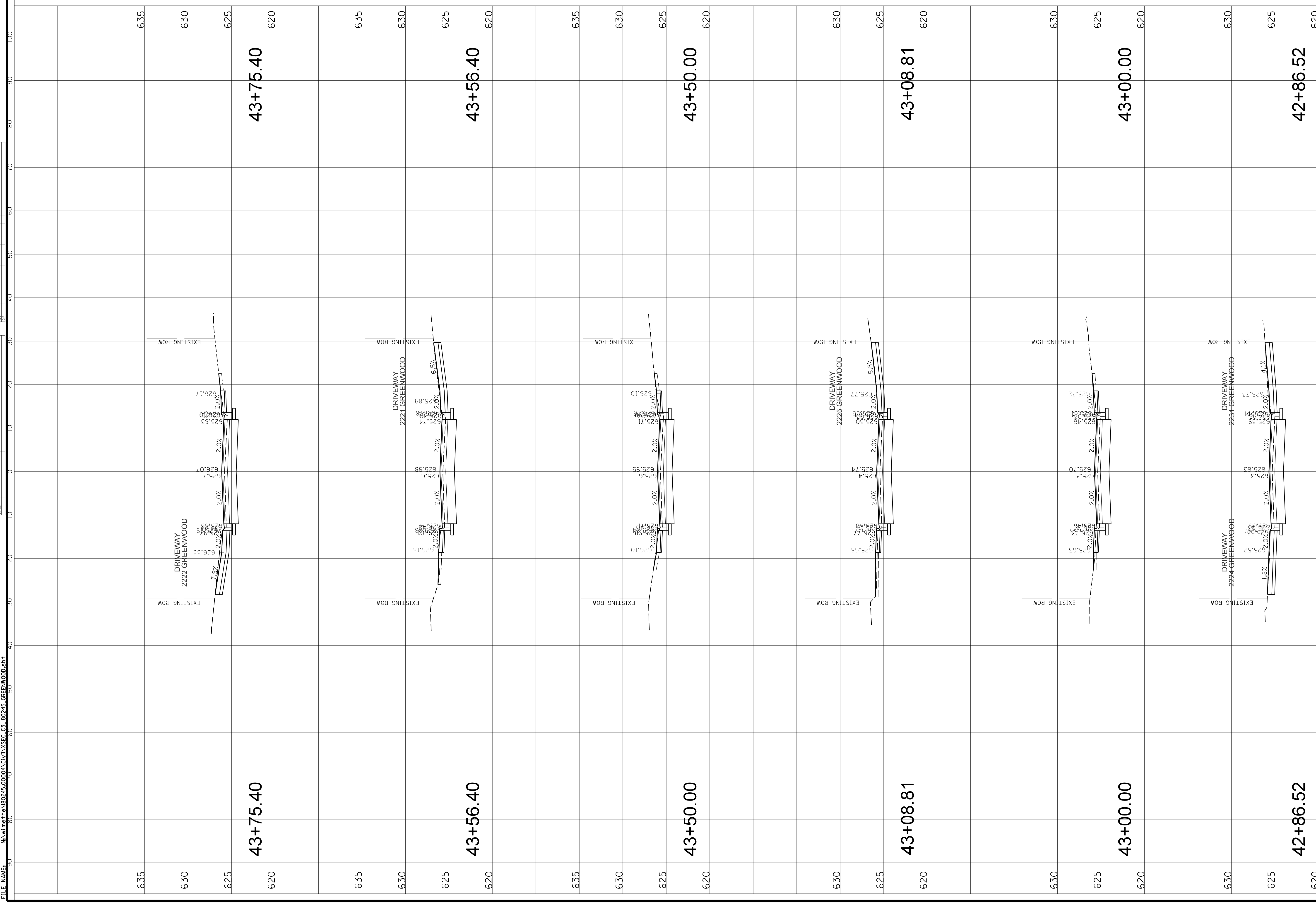
<b>CLIENT:</b> <b>Christopher B. Burke Engineering, Ltd.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>TITLE:</b> <b>GREENWOOD AVE</b> <b>STA. 41 + 50.00 - STA. 42 + 50.00</b> <b>CROSS SECTIONS</b>	
<b>PROJ. NO.:</b> 180245.0004 <b>DATE:</b> 10/8/2021 <b>SHEET:</b> 176 OF 207 <b>DRAWING NO.:</b>	<b>DSCRN.:</b> JAP <b>DWN.:</b> MAK <b>CHKD.:</b> LMF <b>SCALE:</b> HORIZ. 10 VERT. 5 <b>PLOT DATE:</b> 10/8/2021 <b>CAD USER:</b> rmgoodrich <b>MODEL:</b> Default	<b>PROJECT:</b> GREENWOOD AVE <b>DATE:</b> 10/8/2021 <b>SHEET:</b> 176 OF 207 <b>DRAWING NO.:</b>	





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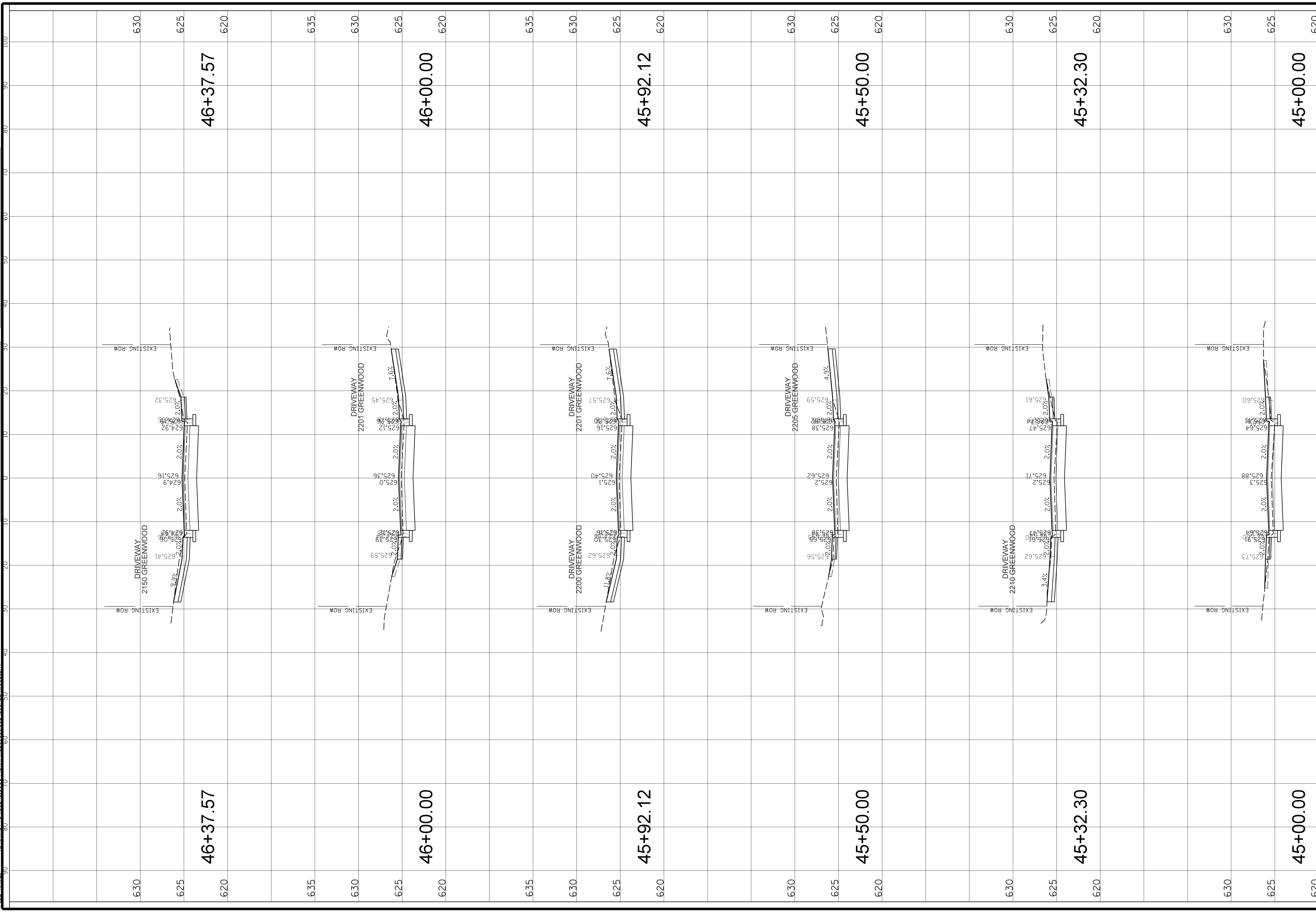


<b>CLIENT:</b> <b>Christopher B. Burke Engineering, Ltd.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>TITLE:</b> <b>GREENWOOD AVE</b> STA. 42 + 86.52 - STA. 43 + 75.40 <b>CROSS SECTIONS</b>	
<b>PROJ. NO.:</b> 180245.0004 <b>DATE:</b> 10/8/2021 <b>SHEET:</b> 177 OF 207 <b>DRAWING NO.:</b>	<b>DSCR.:</b> JAP <b>DWN.:</b> MAK <b>CHKD.:</b> LMF <b>SCALE:</b> HORIZ. 10 VERT. 5 <b>PLOT DATE:</b> 10/8/2021 <b>CAD USER:</b> mlooney <b>MODEL:</b> Default	<b>FILE NAME:</b> M:\w\118\180245\0000\CIVIL\SSFC_63_180245_GREENWOOD.sht	<b>PROJECT NO.:</b> 180245.0004 <b>DATE:</b> 10/8/2021 <b>SHEET:</b> 177 OF 207 <b>DRAWING NO.:</b>



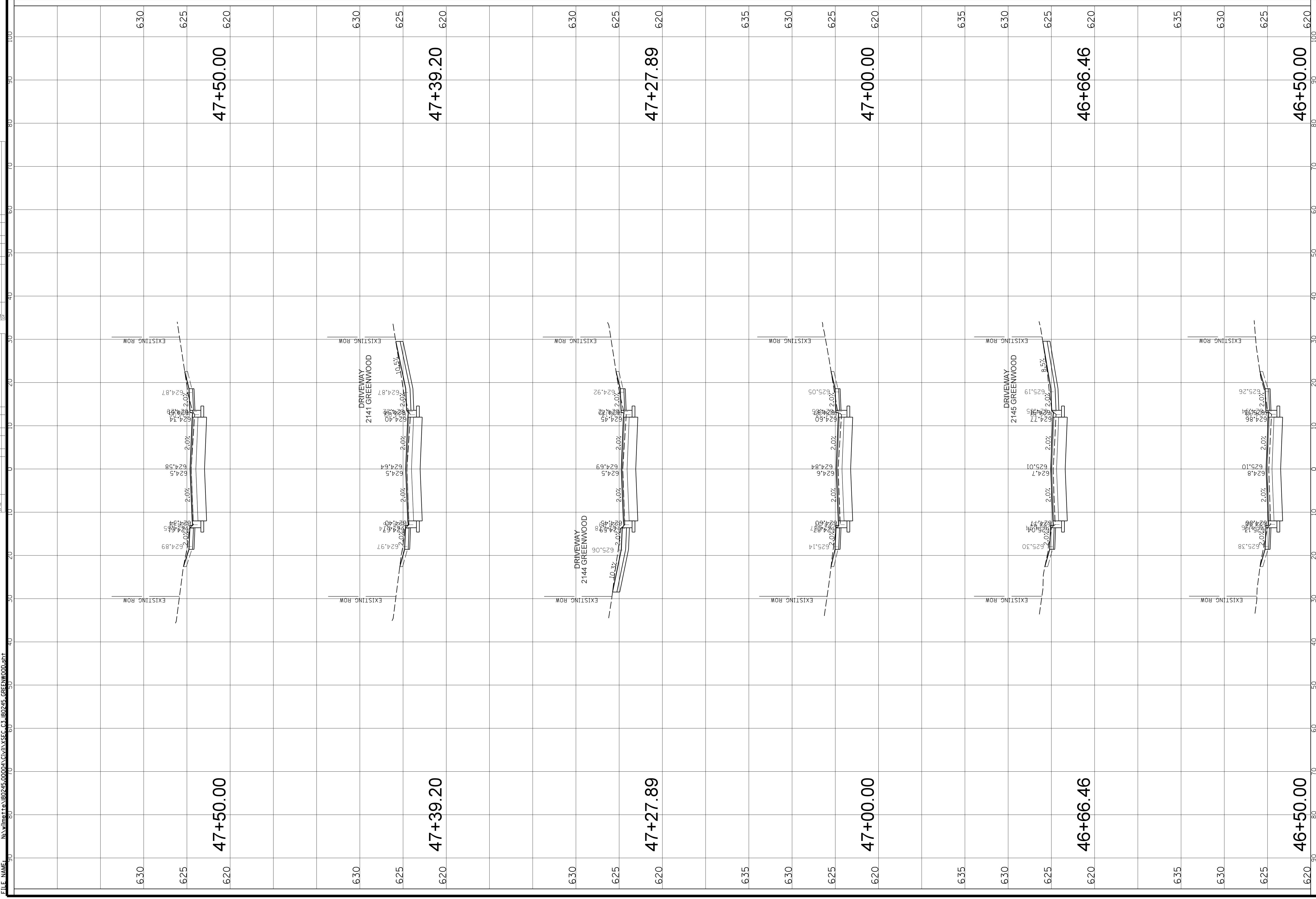


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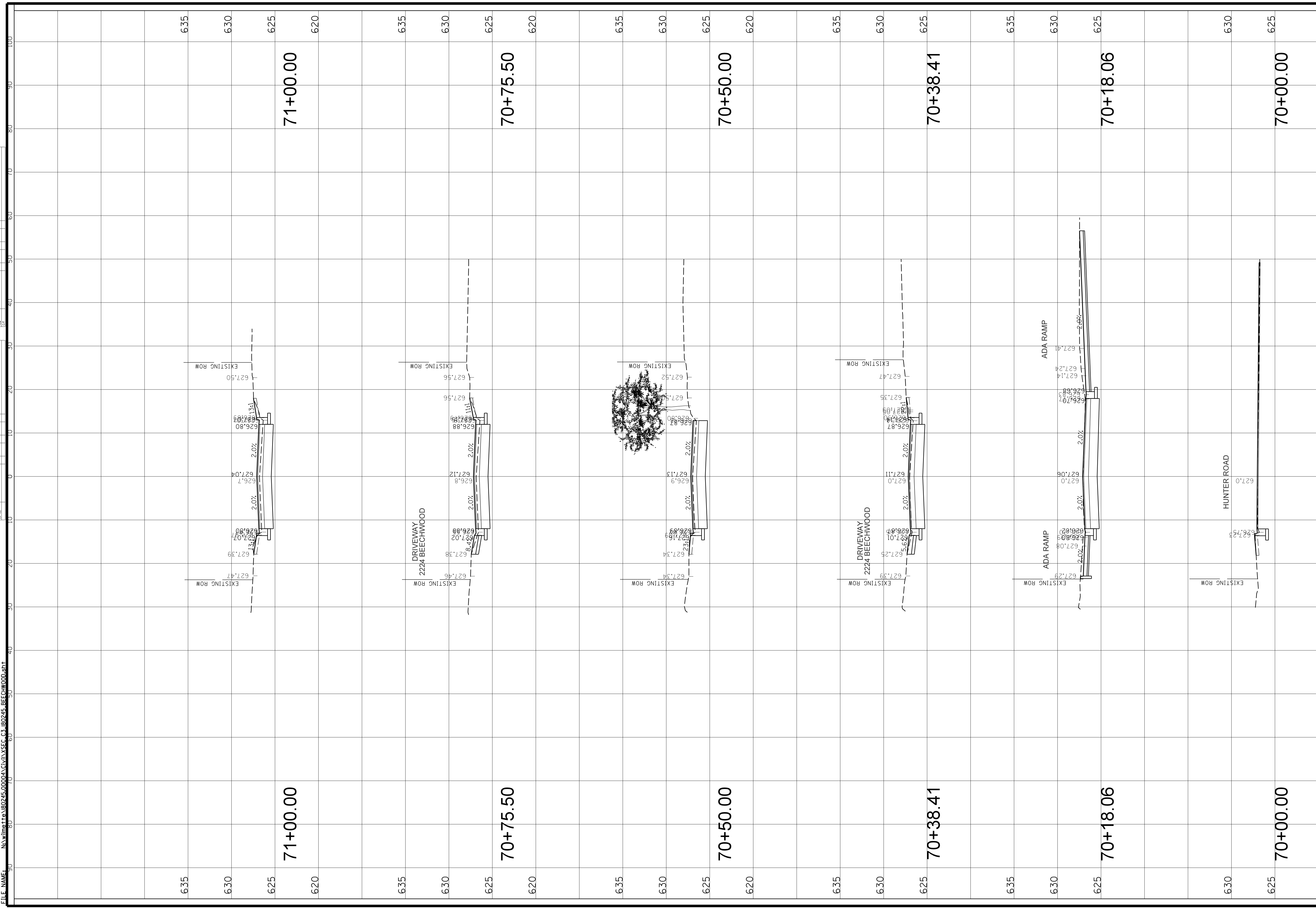
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<p><b>CLIENT:</b>  <b>Christopher B. Burke Engineering, Ltd.</b>                  9575 W. Higgins Road, Suite 600                  Rosemont, Illinois 60018                  (847) 823-0500</p>		<p><b>TITLE:</b>  <b>Village of Wilmette</b>                  1200 WILMETTE AVENUE                  WILMETTE, IL 60091-0040</p>	
<p><b>DSON:</b> DWN.</p>	<p><b>JAP:</b> JAP</p>	<p><b>MAK:</b> MAK</p>	<p><b>LMF:</b> LMF</p>
<p><b>CHKD.:</b> CHKD.</p>	<p><b>SCALE:</b> SCALE:</p>	<p><b>HORIZ.:</b> HORIZ. 10</p>	<p><b>VERT.:</b> VERT. 5</p>
<p><b>PLOT DATE:</b> 10/8/2021</p>	<p><b>CAD USER:</b> mfoance</p>	<p><b>MODEL:</b> DeFault</p>	<p><b>PROJ. NO.:</b> 180245.0004</p>
<p><b>DATE:</b> 10/8/2021</p>	<p><b>SHEET:</b> 180 OF 207</p>	<p><b>DRAWING NO.:</b> DRAWING NO.</p>	<p><b>PROJECT:</b> GREENWOOD AVE                  STA. 46 + 50.00 - STA. 47 + 50.00  <b>CROSS SECTIONS</b></p>
<p><b>PROJECT:</b> GREENWOOD AVE                  STA. 46 + 50.00 - STA. 47 + 50.00  <b>CROSS SECTIONS</b></p>			<p><b>PAGE NO.:</b> 180</p>

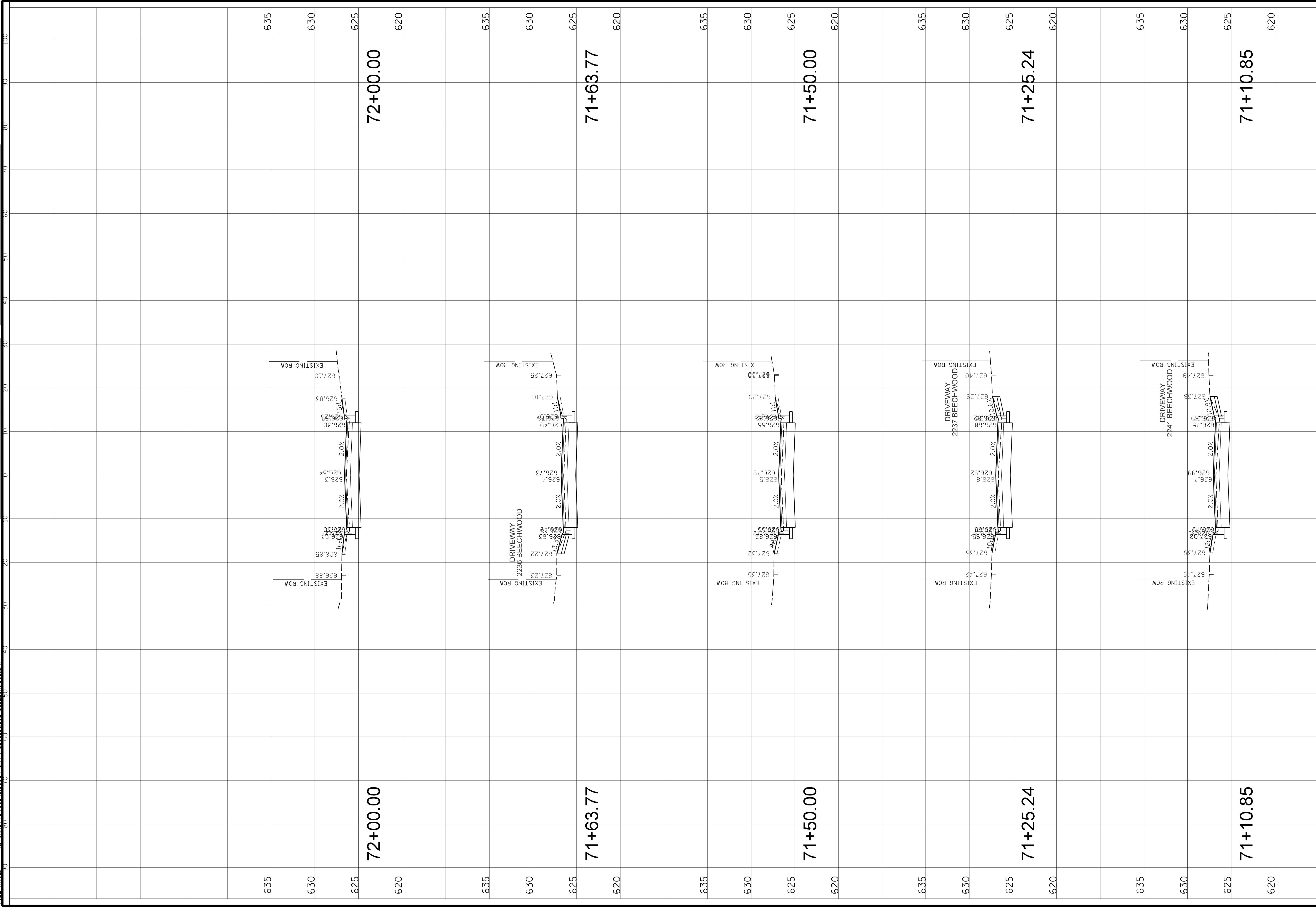


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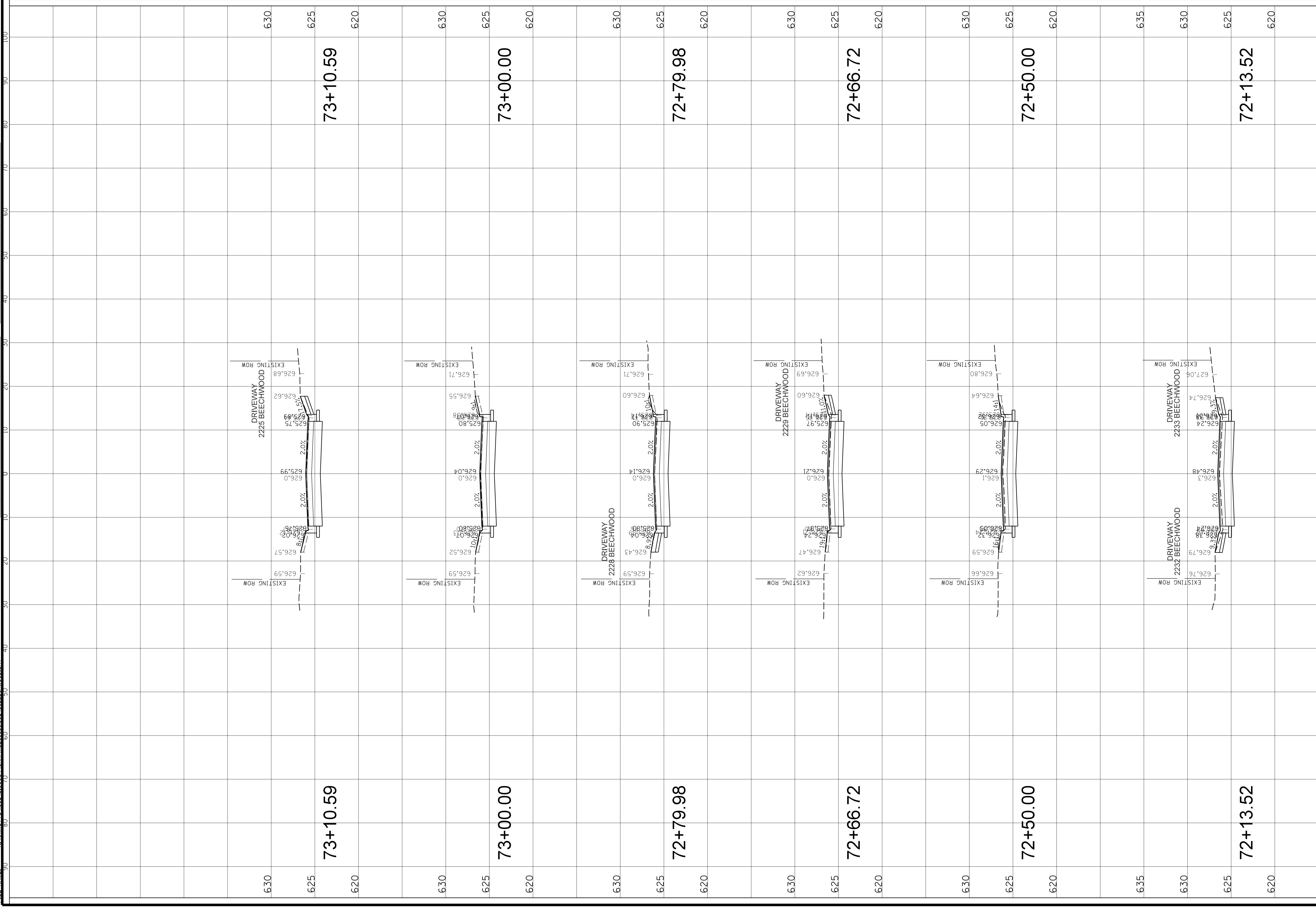
<b>CLIENT:</b> <b>Christopher B. Burke Engineering, Ltd.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>TITLE:</b> <b>BEECHWOOD AVE</b> <b>STA. 70 + 00.00 - STA. 71 + 00.00</b> <b>CROSS SECTIONS</b>	
<b>PROJ. NO.:</b> 180245.0004 <b>DATE:</b> 10/8/2021 <b>SHEET:</b> 182 OF 207 <b>DRAWING NO.:</b>	<b>JAP:</b> [ ] <b>MAK:</b> [ ] <b>LMF:</b> [ ] <b>CHKD.:</b> [ ] <b>SCALE:</b> HORIZ. 10 VERT. 5	<b>PLOT DATE:</b> 10/8/2021 <b>CAD USER:</b> rmcgouch <b>MODEL:</b> Default	<b>182</b>

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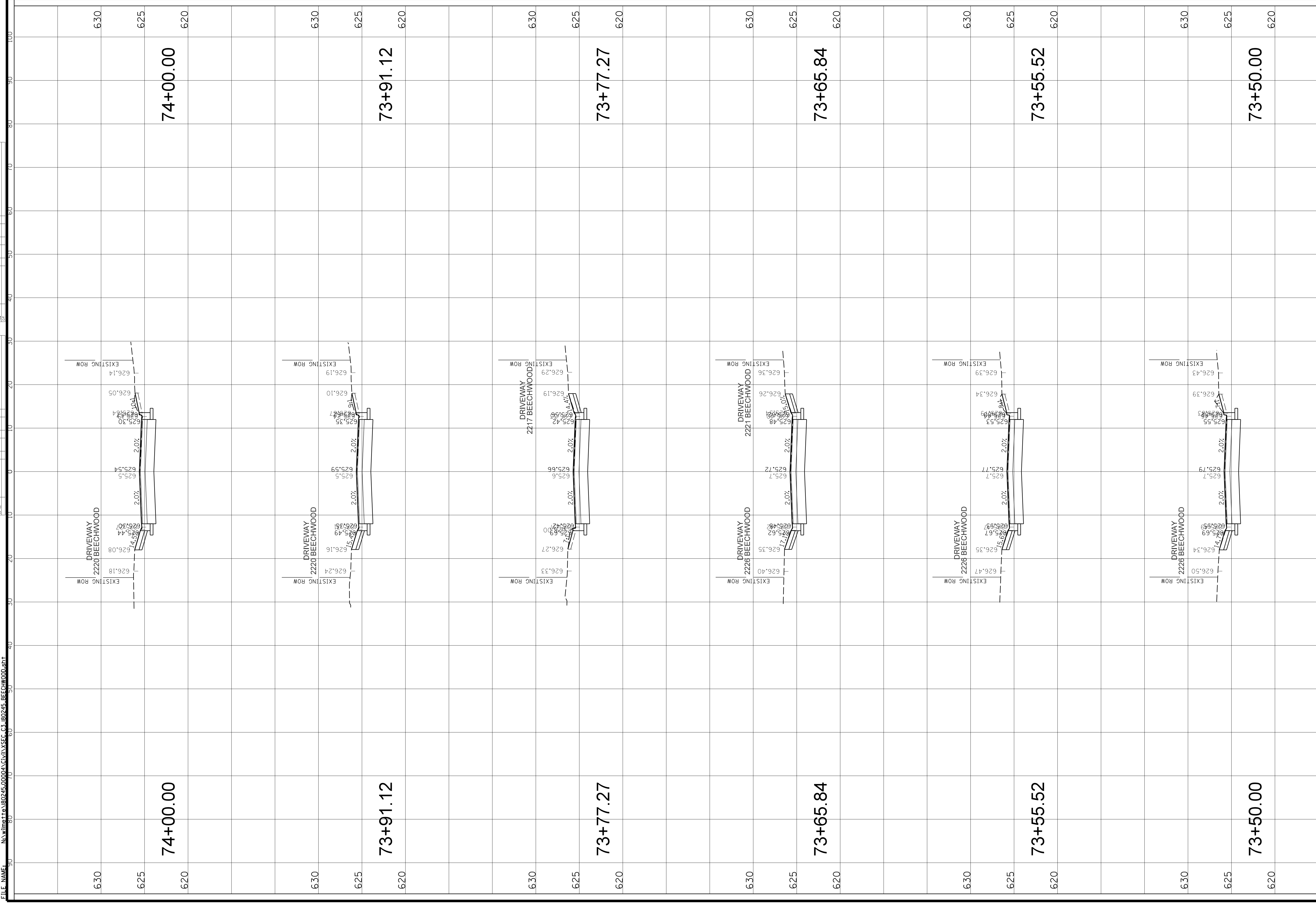


<b>CLIENT:</b> <b>Christopher B. Burke Engineering, Ltd.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>TITLE:</b> <b>Beechwood Ave</b> STA. 72 + 13.52 - STA. 73 + 10.59 <b>CROSS SECTIONS</b>	
<b>PROJ. NO.:</b> 180245.0004 <b>DATE:</b> 10/8/2021 <b>SHEET:</b> 184 OF 207 <b>DRAWING NO.:</b>	<b>DRAWN:</b> <b>CHKD.:</b> <b>SCALE:</b> <b>PLOT DATE:</b> 10/8/2021 <b>CAD USER:</b> mfooteb <b>MODEL:</b> Default	<b>JAP:</b> <b>MAK:</b> <b>LMF:</b> <b>HORIZ.:</b> 10 <b>VERT.:</b> 5	<b>184</b>



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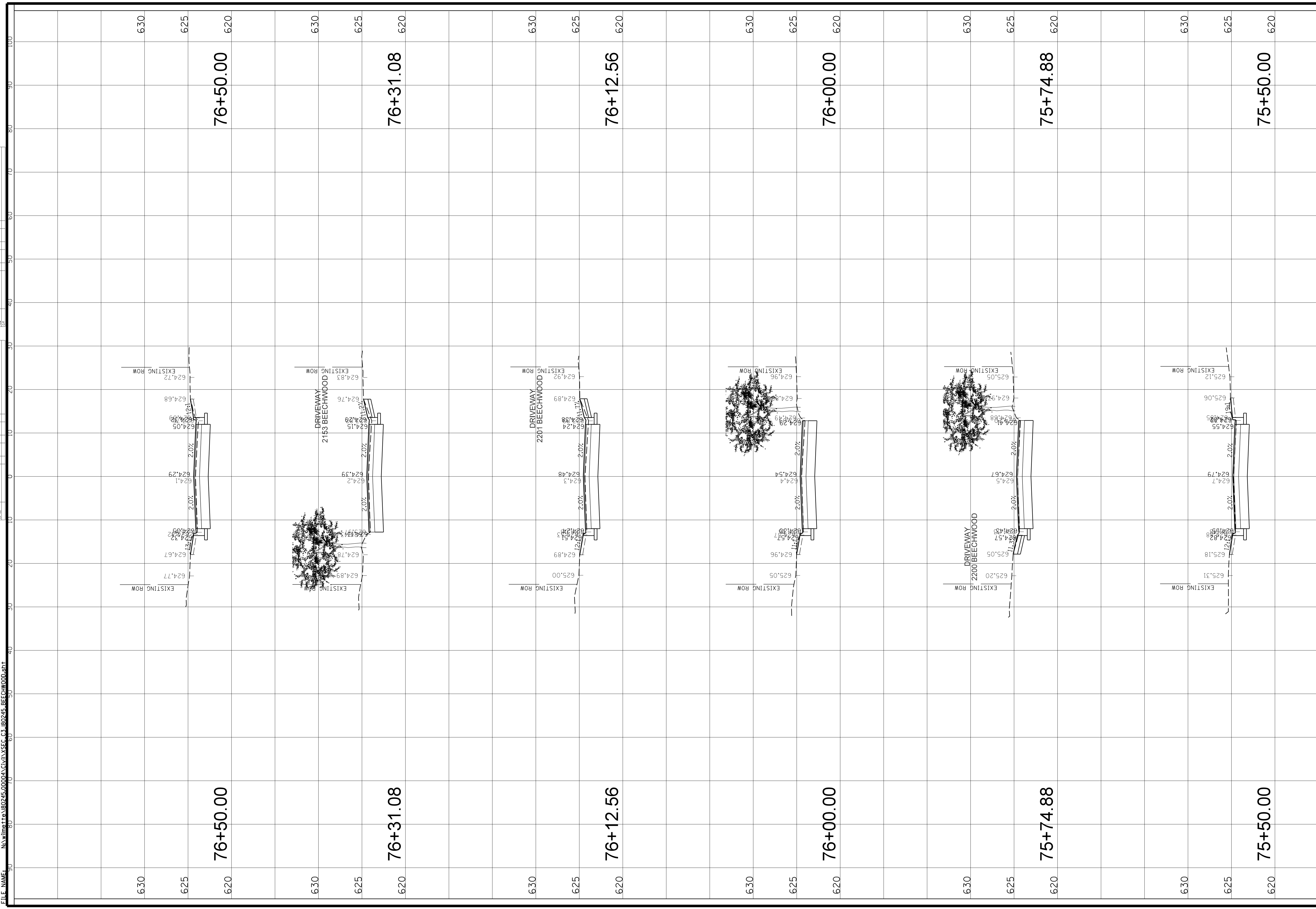
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<b>CLIENT:</b> <b>Christopher B. Burke Engineering, Ltd.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>TITLE:</b> <b>Beechwood Ave</b> STA. 73 + 50.00 - STA. 74 + 00.00 <b>CROSS SECTIONS</b>	
<b>DRAWN:</b> JAP	<b>CHKD.:</b> MAK	<b>SCALE:</b> HORIZ. 10 VERT. 5	<b>PROJECT NO.:</b> 180245.0004
<b>PLOT DATE:</b> 10/8/2021	<b>CAD USER:</b> rinoonce	<b>MODEL:</b> Default	<b>DATE:</b> 10/8/2021
		<b>SHEET:</b> 185 OF 207	<b>DRAWING NO.:</b> 185

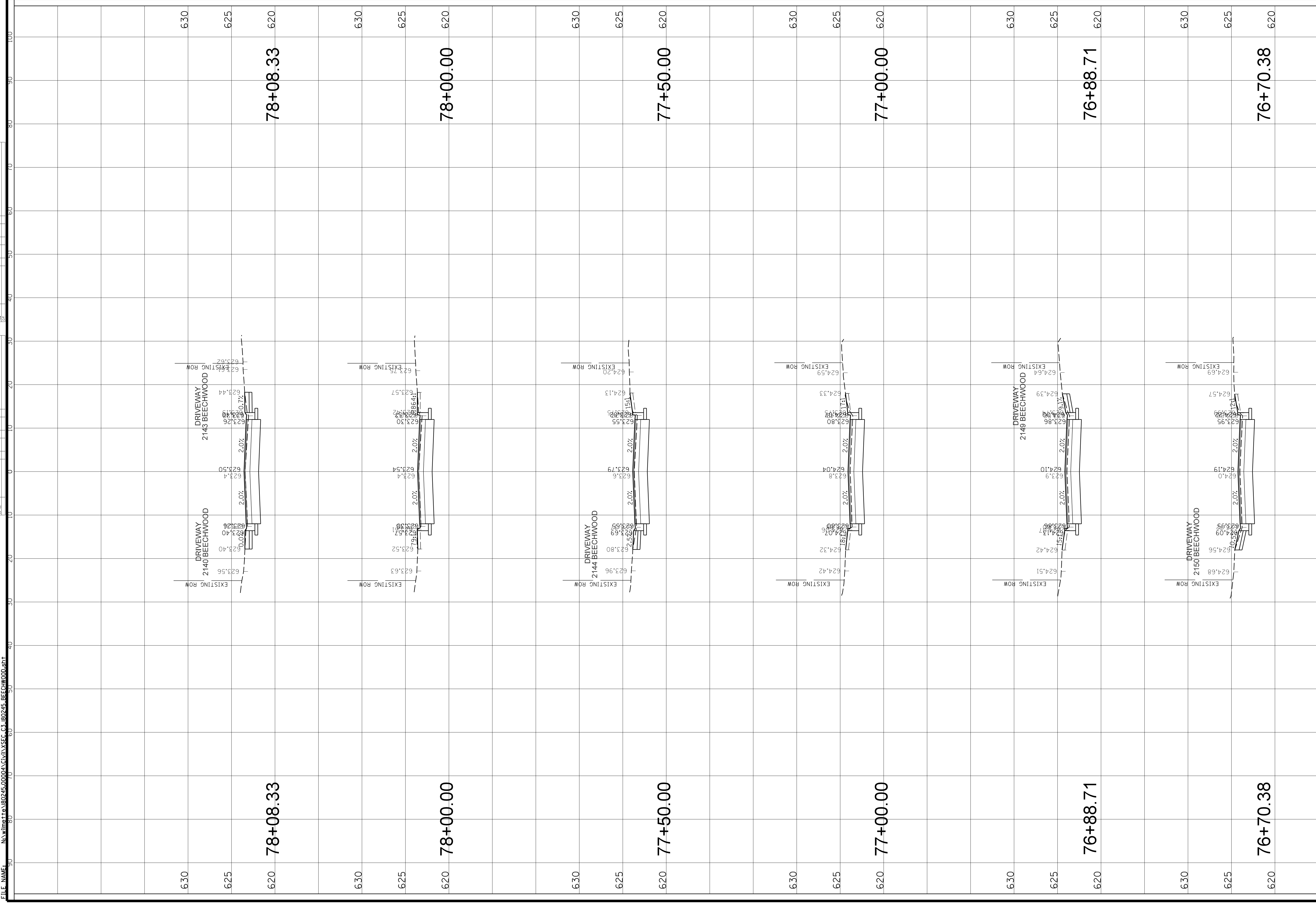


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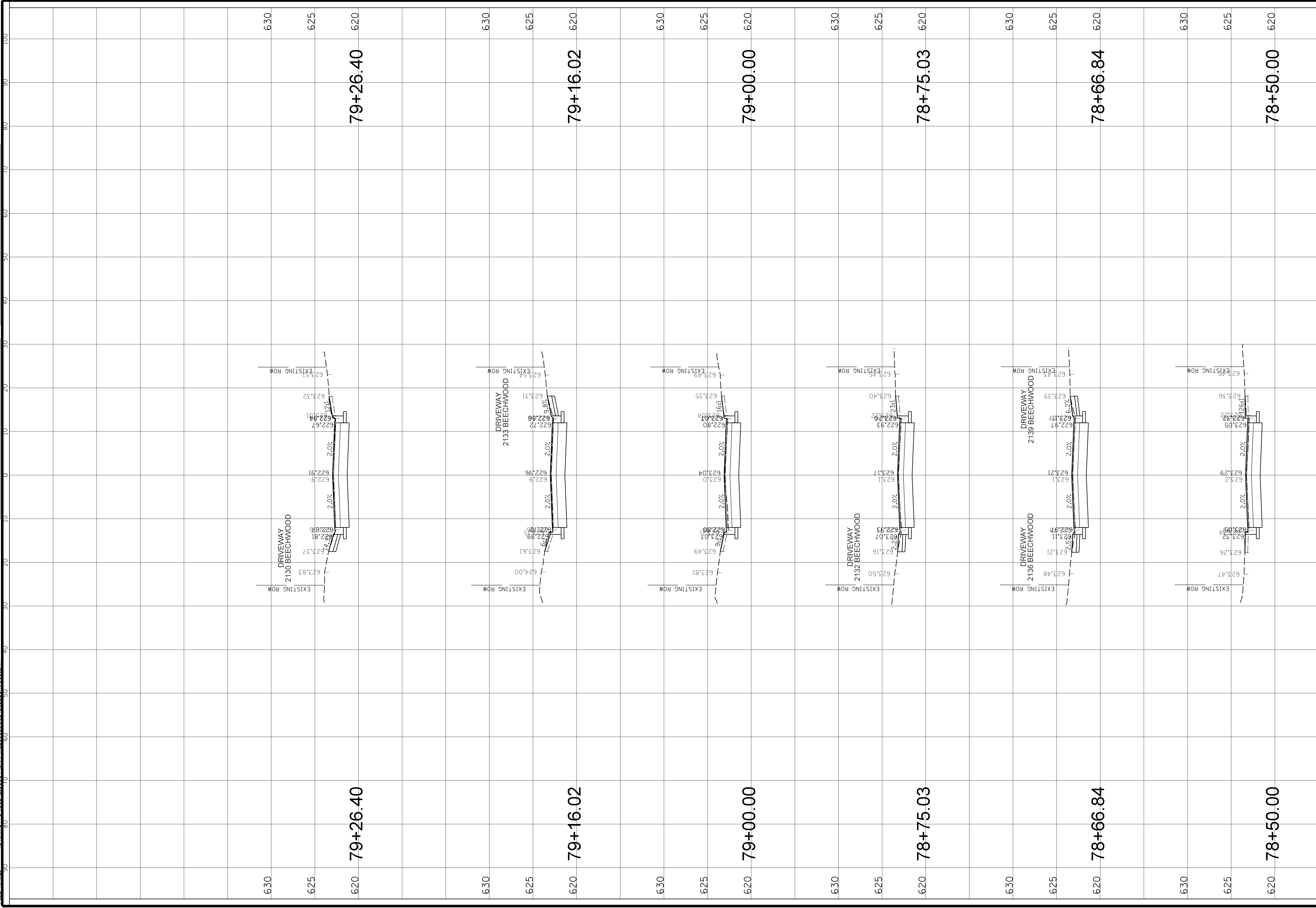
NO.	DATE	BY	CHKD.	DESC.
1				
2				
3				
4				
5				

NO.	DATE	BY	CHKD.	DESC.
1				
2				
3				
4				
5				



<b>CHRISTOPHER B. BURKE ENGINEERING, LTD.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>Village of Wilmette</b> 1200 WILMETTE AVENUE WILMETTE, IL 60091-0040		TITLE: <b>BEECHWOOD AVE</b> <b>STA. 76 + 70.38 - STA. 78 + 08.33</b> <b>CROSS SECTIONS</b>	
DSON. DWN.	JAP MAK	CHKD. LMF	SCALE: HORZ. 10 VERT. 5	PLOT DATE: 10/8/2021	PROJ. NO. 180245.0004 DATE: 10/8/2021 SHEET 188 OF 207 DRAWING NO.
CLIENT:			CAD USER: rmgooden		MODEL: Default
					188

NO.	DATE	BY	CHK	DESC

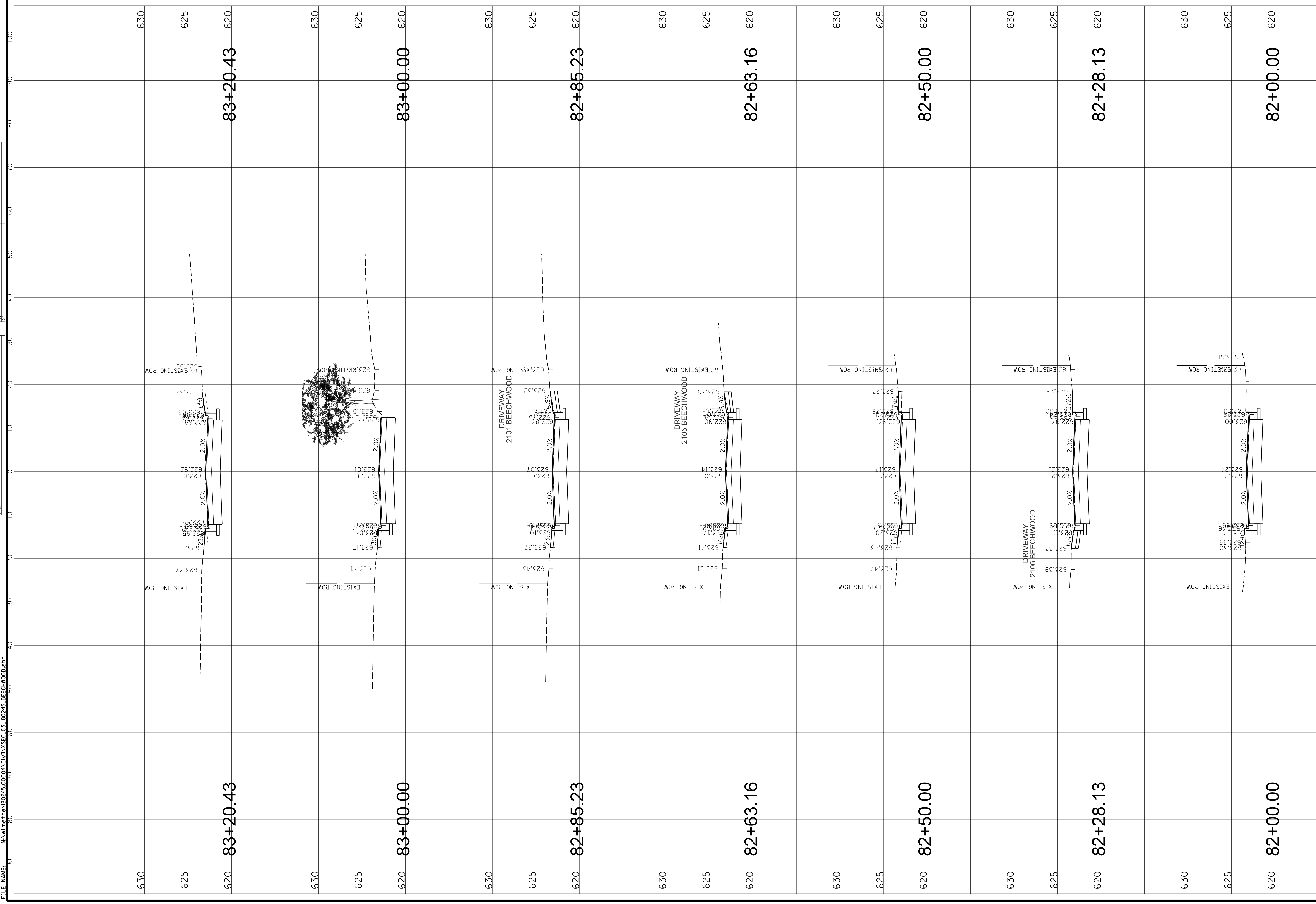






NO.	DATE	BY	CHKD.	DESC.

NO.	DATE	BY	CHKD.	DESC.

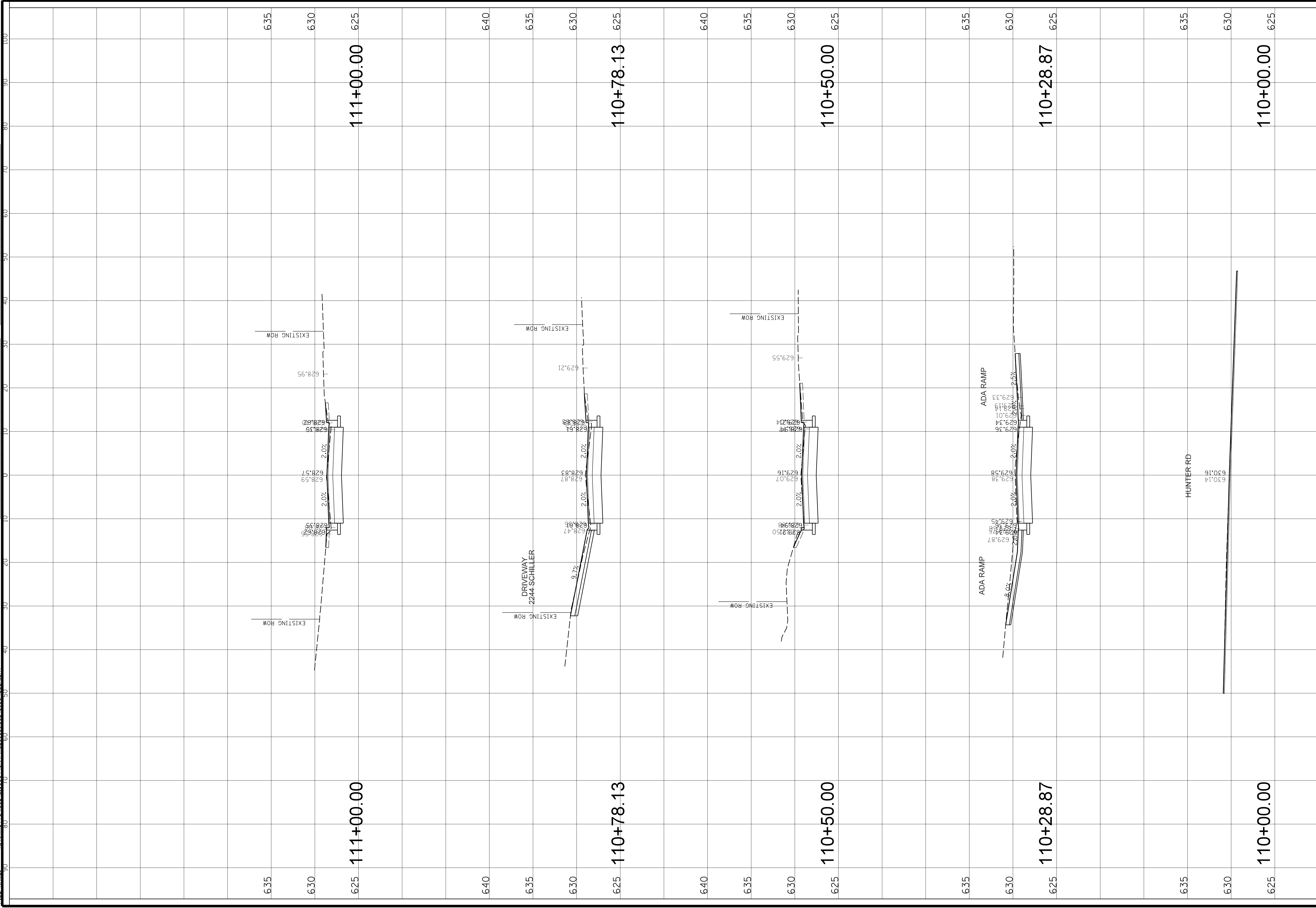


<b>CLIENT:</b> <b>Christopher B. Burke Engineering, Ltd.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>TITLE:</b> <b>BEECHWOOD AVE</b> <b>STA. 82 + 00.00 - STA. 83 + 20.43</b> <b>CROSS SECTIONS</b>	
<b>PROJ. NO.</b> 180245.0004 <b>DATE:</b> 10/8/2021 <b>SHEET</b> 192 OF 207 <b>DRAWING NO.</b>	<b>DSON:</b> JAP <b>DWN:</b> MAK <b>CHKD.:</b> LMF <b>SCALE:</b> HORZ. 10 VERT. 5 <b>PLOT DATE:</b> 10/8/2021 <b>CAD USER:</b> rnkoonce <b>MODEL:</b> Default	<b>83+20.43</b> <b>83+00.00</b> <b>82+85.23</b> <b>82+63.16</b> <b>82+50.00</b> <b>82+28.13</b> <b>82+00.00</b>	<b>630</b> <b>625</b> <b>620</b> <b>630</b> <b>625</b> <b>620</b> <b>630</b> <b>625</b> <b>620</b> <b>630</b> <b>625</b> <b>620</b> <b>630</b> <b>625</b> <b>620</b> <b>630</b> <b>625</b> <b>620</b>





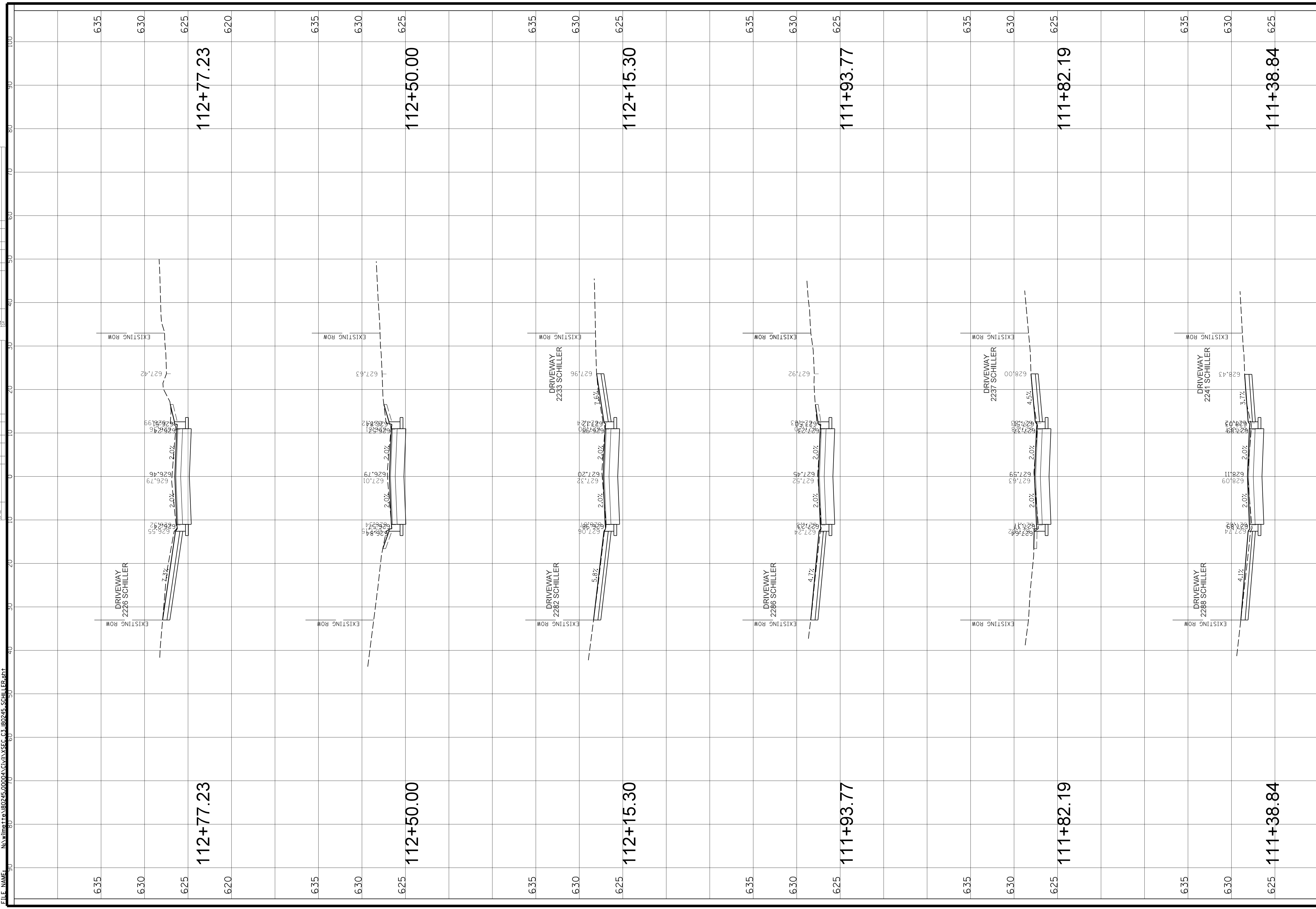
NO.	DATE	BY	CHKD.	DESC.
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<b>CLIENT:</b> <b>Christopher B. Burke Engineering, Ltd.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>TITLE:</b> <b>SCHILLER AVE</b> <b>STA. 110+00.00 - STA. 111+00.00</b> <b>CROSS SECTIONS</b>	
<b>PROJ. NO.:</b> 180245.0004 <b>DATE:</b> 10/8/2021 <b>SHEET:</b> 194 OF 207 <b>DRAWING NO.:</b>	<b>DSCRN.:</b> DWN. CHKD. SCALE:	<b>JAP.:</b> MAK LMF HORZ. 10 VERT. 5	<b>PLOT DATE:</b> 10/8/2021 <b>CAD USER:</b> rmgoodrich <b>MODEL:</b> Default



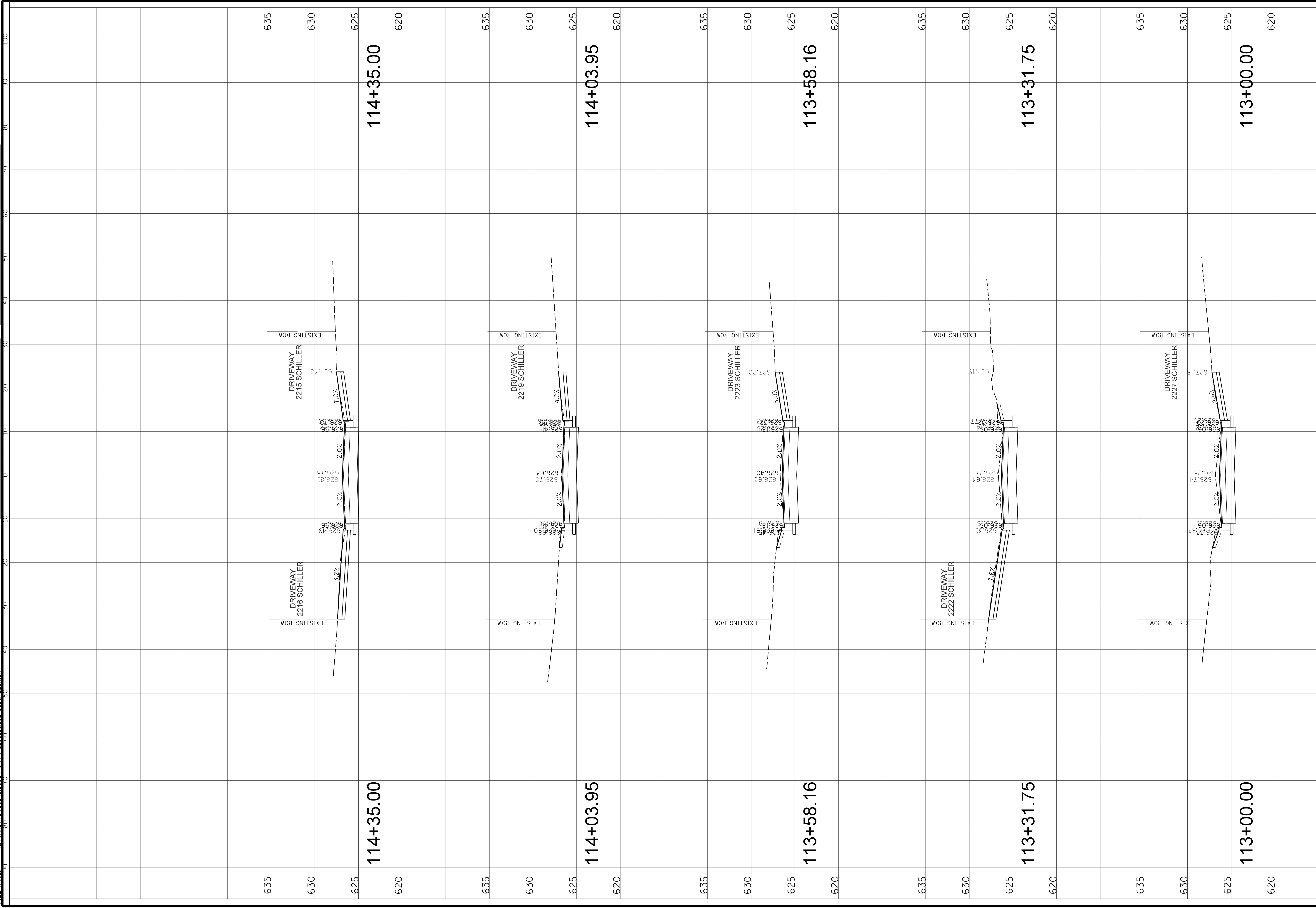
REV.	DATE	BY	CHKD.	DESC.



<b>CLIENT:</b> <b>Christopher B. Burke Engineering, Ltd.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>TITLE:</b> <b>Schiller Ave</b> STA. 111 + 38.84 - STA. 112 + 77.23 <b>CROSS SECTIONS</b>	
<b>PROJ. NO.</b> 180245.0004 <b>DATE:</b> 10/8/2021 <b>SHEET</b> 195 OF 207 <b>DRAWING NO.</b>	<b>DSCRN.</b> DWN. CHKD. SCALE:	<b>JAP.</b> MAK LMF HORIZ. 10 VERT. 5	<b>PLOT DATE:</b> 10/8/2021 <b>CAD USER:</b> mlooney <b>MODEL:</b> Default



REV.	DATE	BY	CHKD.	DESC.



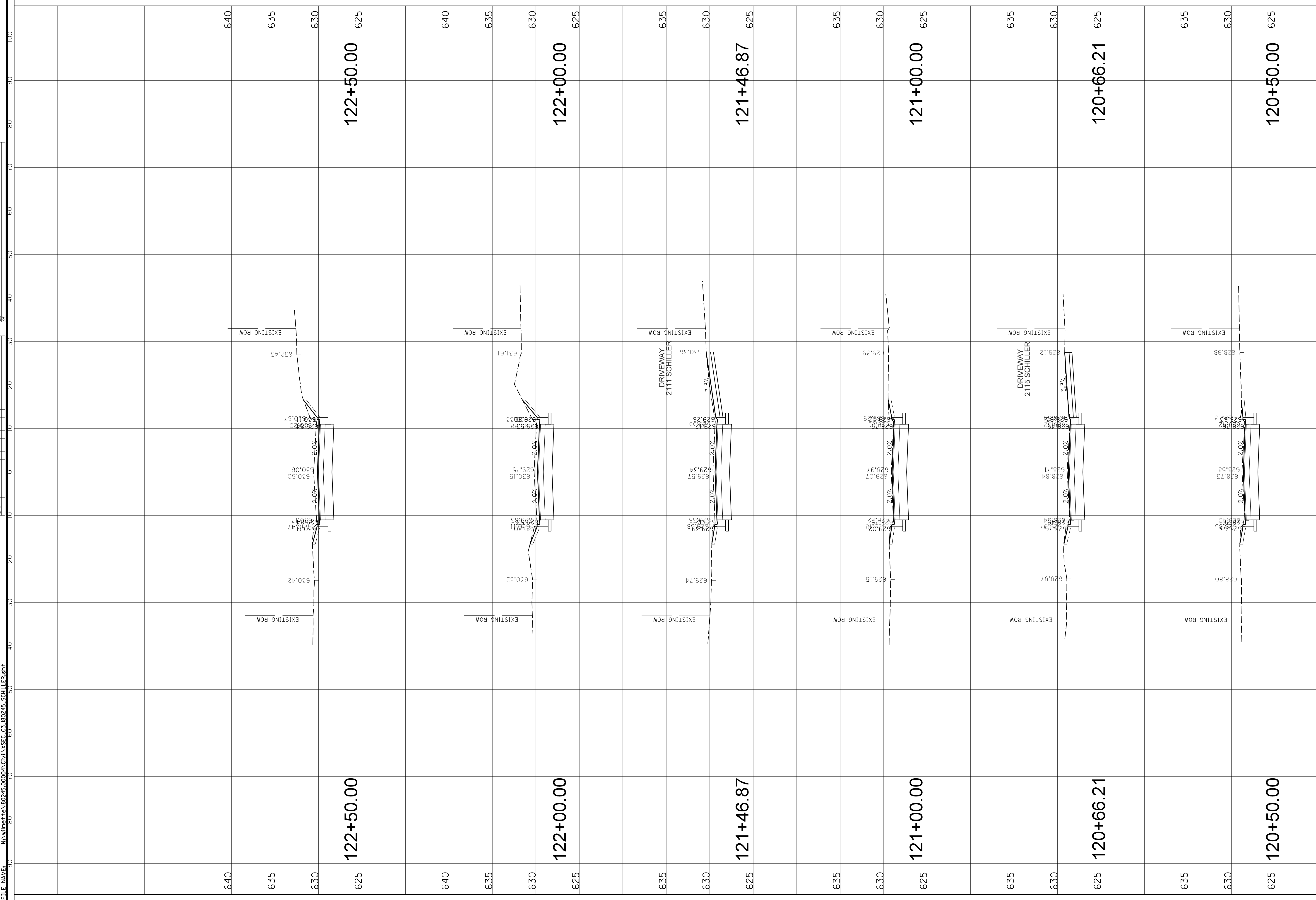






NO.	DATE	BY	CHKD.	DESC.

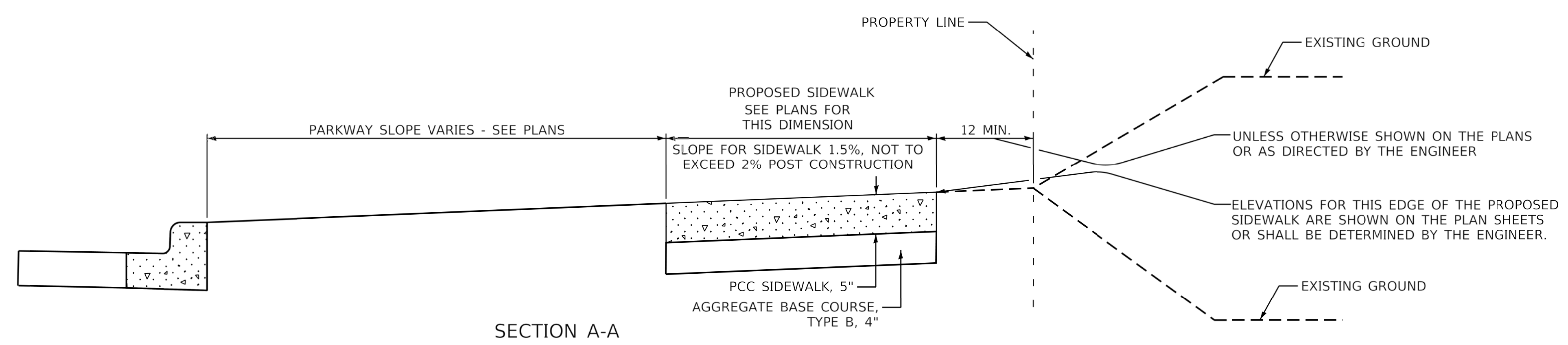
NO.	DATE	BY	CHKD.	DESC.



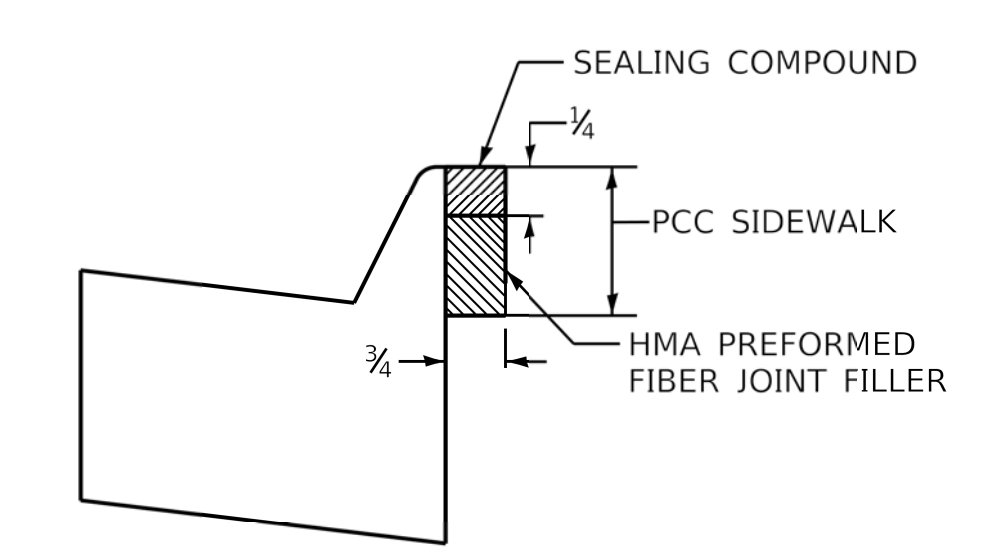
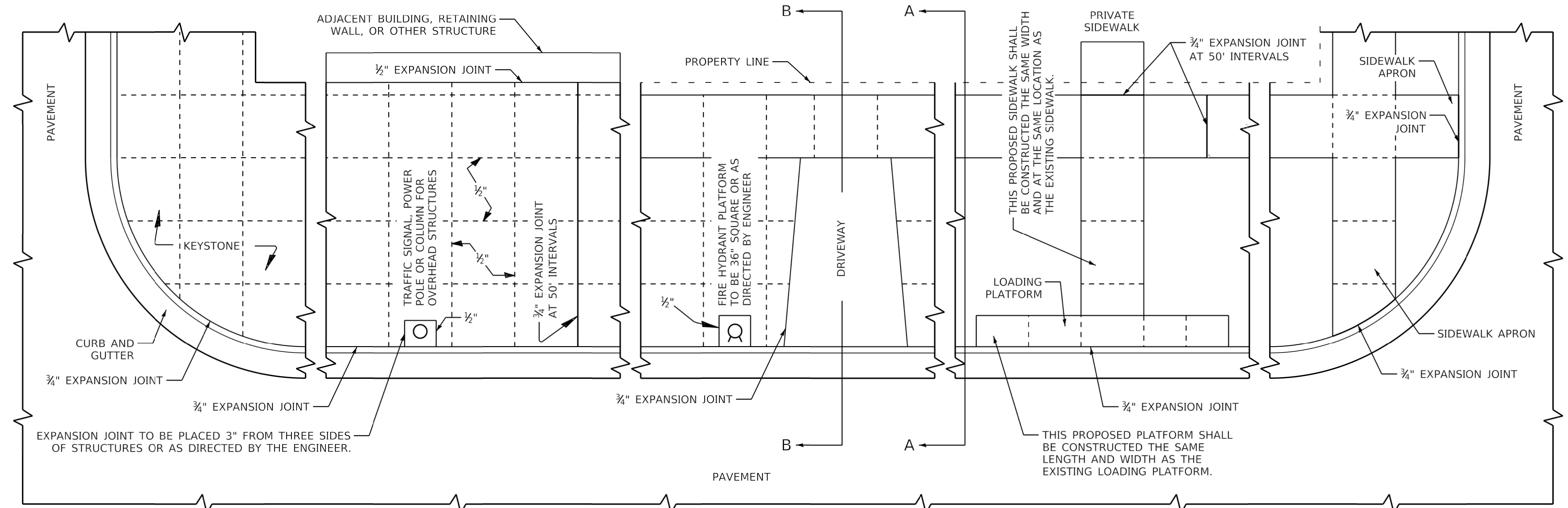
<b>CLIENT:</b> <b>Village of Wilmette</b> 1200 WILMETTE AVENUE WILMETTE, IL 60091-0040		<b>TITLE:</b> <b>SCHILLER AVE</b> STA. 120+50.00 -STA. 122+50.00 <b>CROSS SECTIONS</b>	
<b>PROJ. NO.:</b> 180245.0004 <b>DATE:</b> 10/8/2021 <b>SHEET:</b> 200 OF 207 <b>DRAWING NO.:</b>	<b>DSCRN.:</b> DWN. CHKD. SCALE: PLOT DATE: 10/8/2021 CAD USER: rinoocob MODEL: Default	<b>JAP.:</b> MAK. LMF. HORIZ. 10 VERT. 5	<b>200</b>



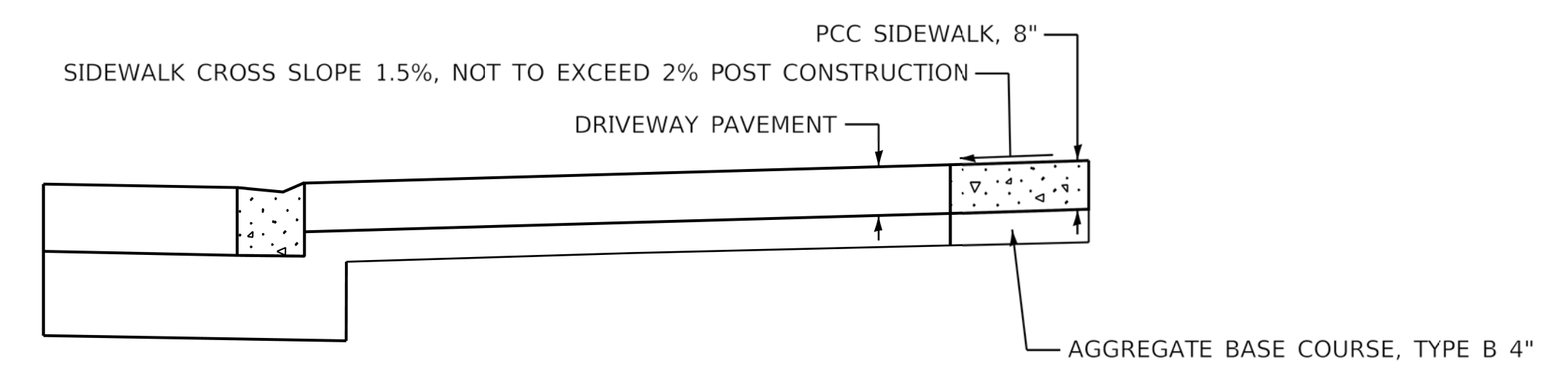




SECTION A-A



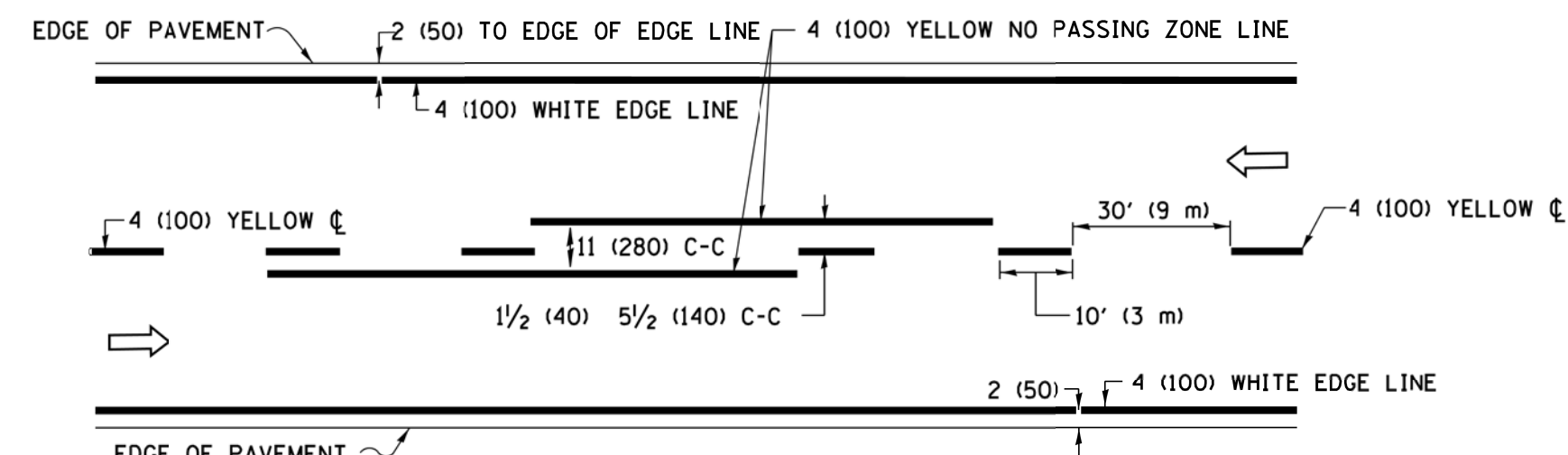
EXPANSION JOINT DETAIL



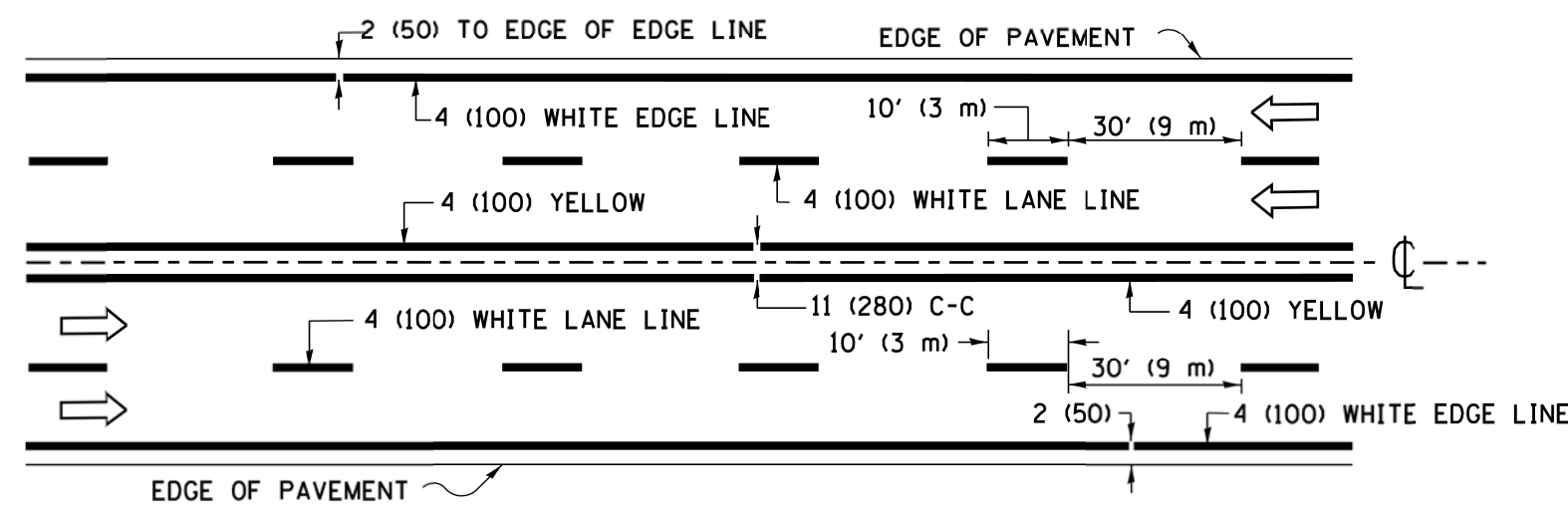
SECTION B-B

**GENERAL NOTES:**  
 ALL EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 424.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PORTLAND CEMENT CONCRETE SIDEWALK OF THE THICKNESS SPECIFIED.  
 ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

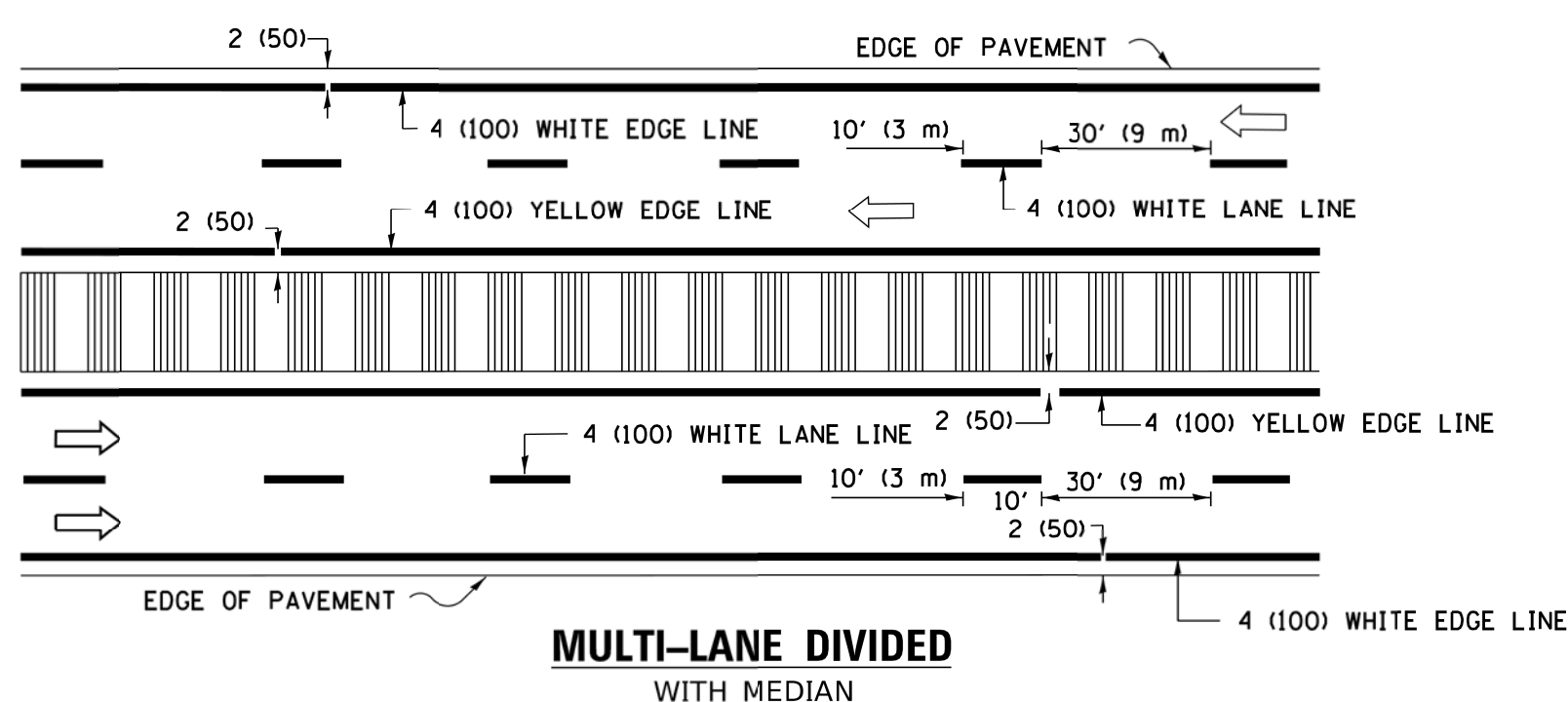
MUNICIPALITY, IL MUNICIPALITY, IL NAME TOWNSHIP	COUNTY HIGHWAY:	XXX		COUNTY OF COOK DEPARTMENT OF TRANSPORTATION AND HIGHWAYS	COMPUTED:	XXX	REVISIONS	DATE	PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION DETAIL COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS STANDARD C-003	C-XXX NOT TO SCALE SHEET X
	FISCAL YEAR:	XXXX			DRAWN:	XXX	GENERAL	1/1/20		
SECTION:	XX-XXXX-XX-XX				CHECKED:	XXX				



**2-LANE ROADWAY**

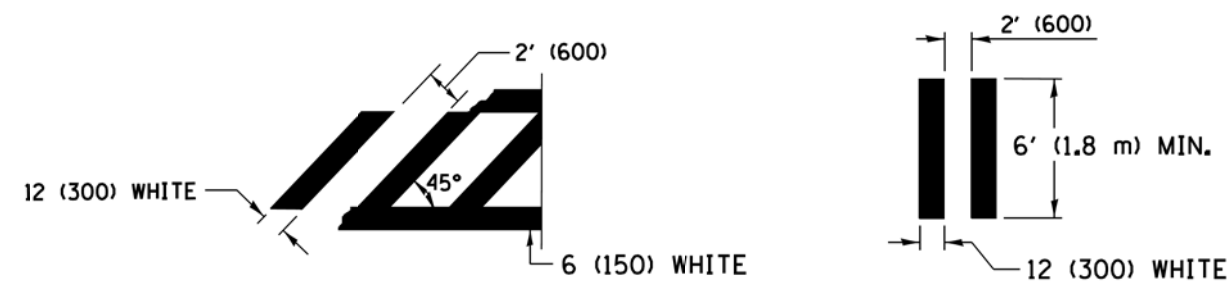
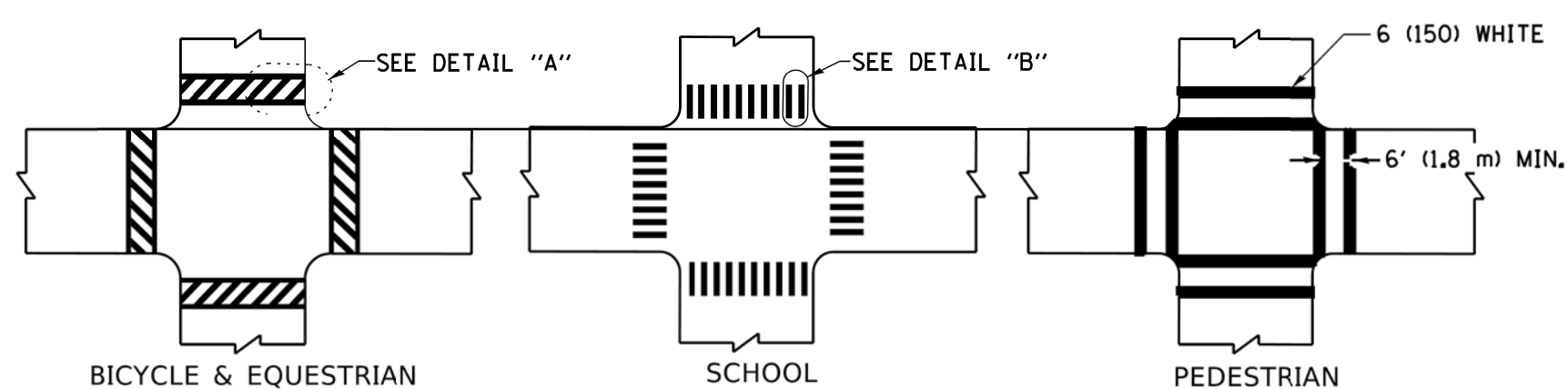


**MULTI-LANE UNDIVIDED**



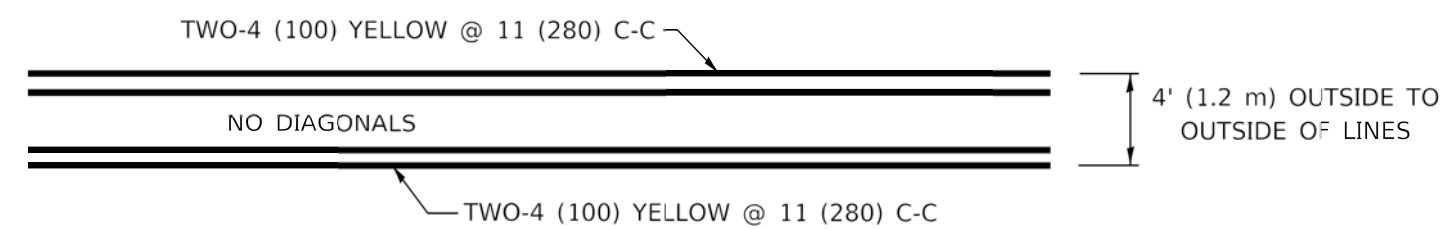
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

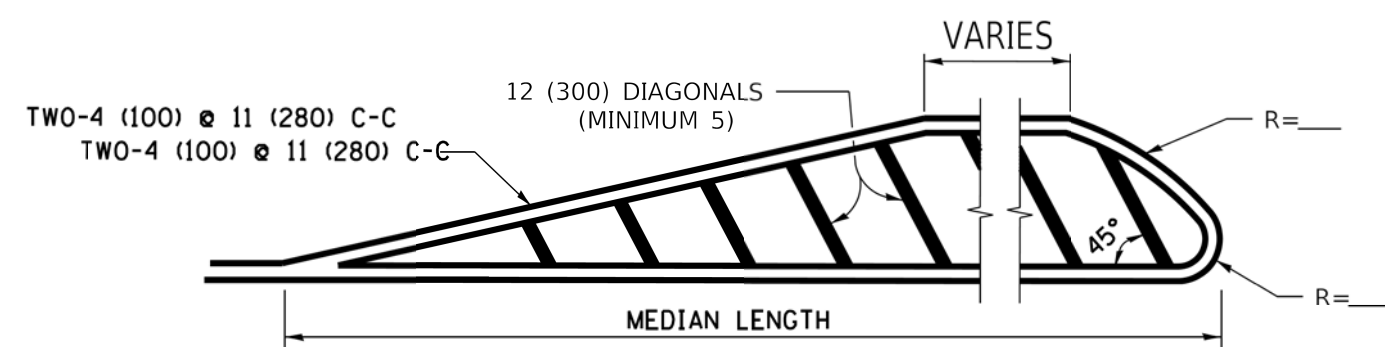


**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



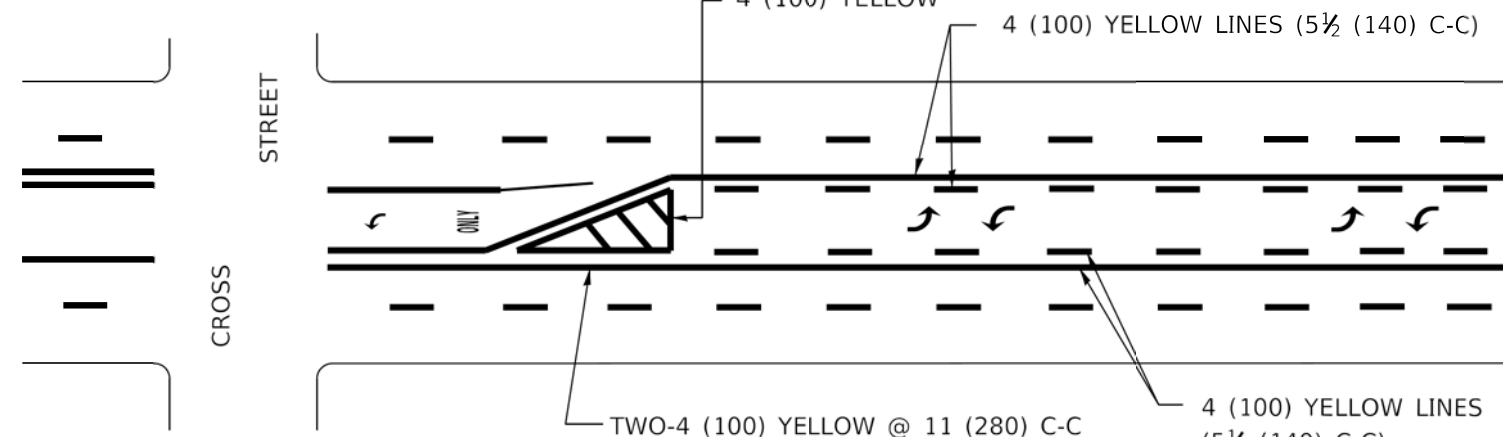
**4' (1.2 m) WIDE MEDIANS ONLY**



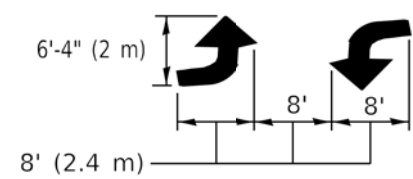
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

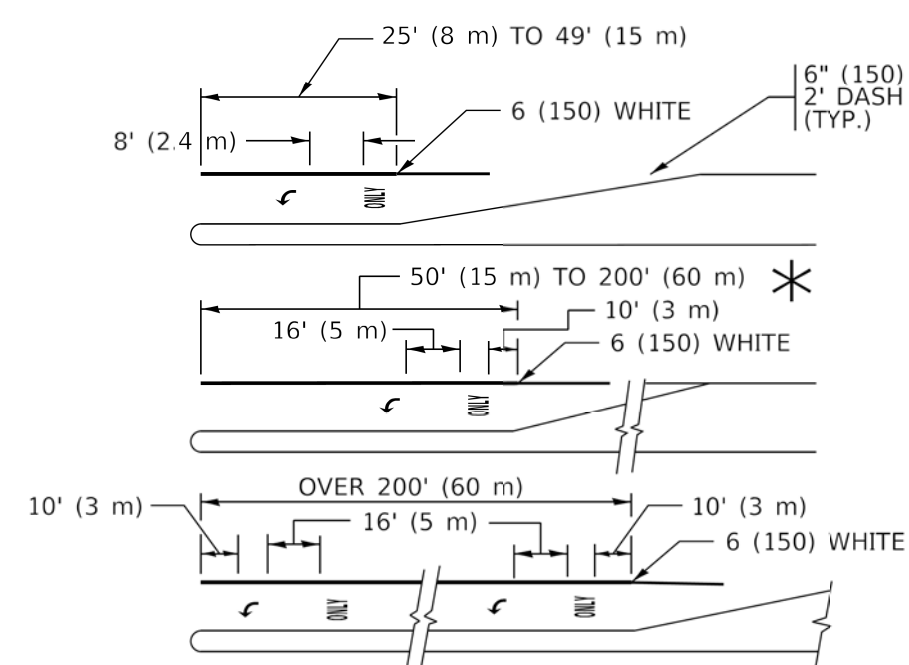
**MEDIANS OVER 4' (1.2 m) WIDE**



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



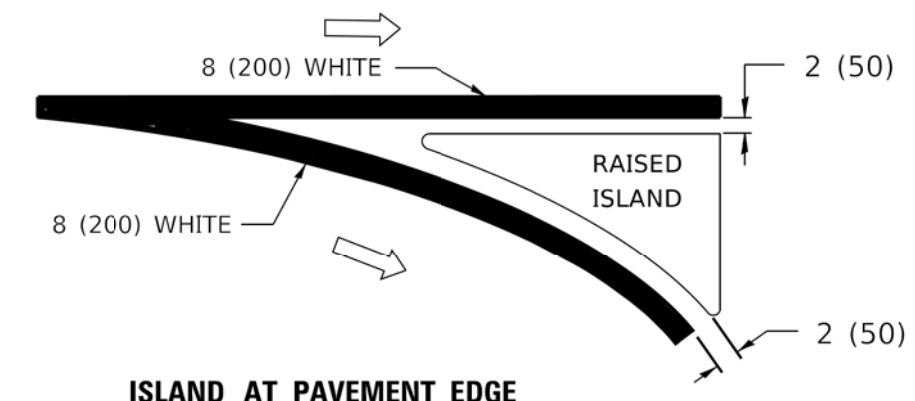
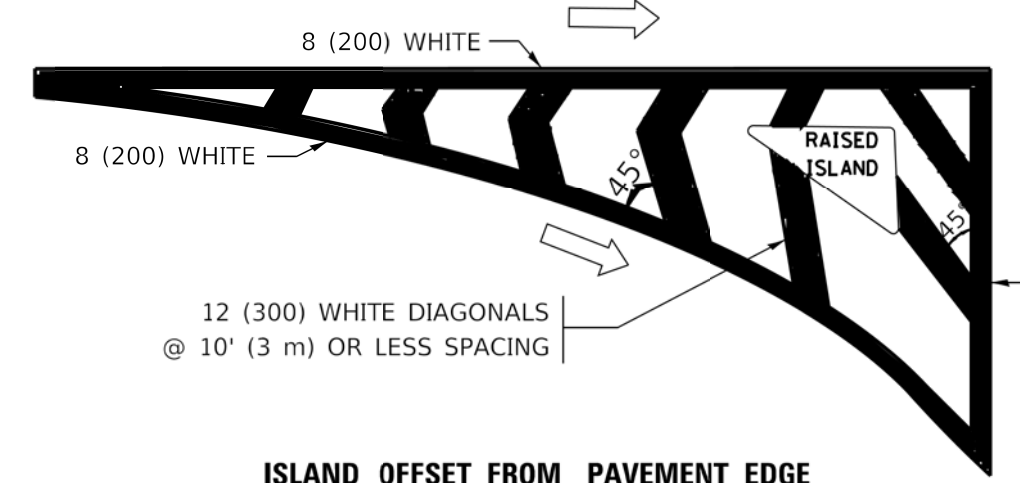
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



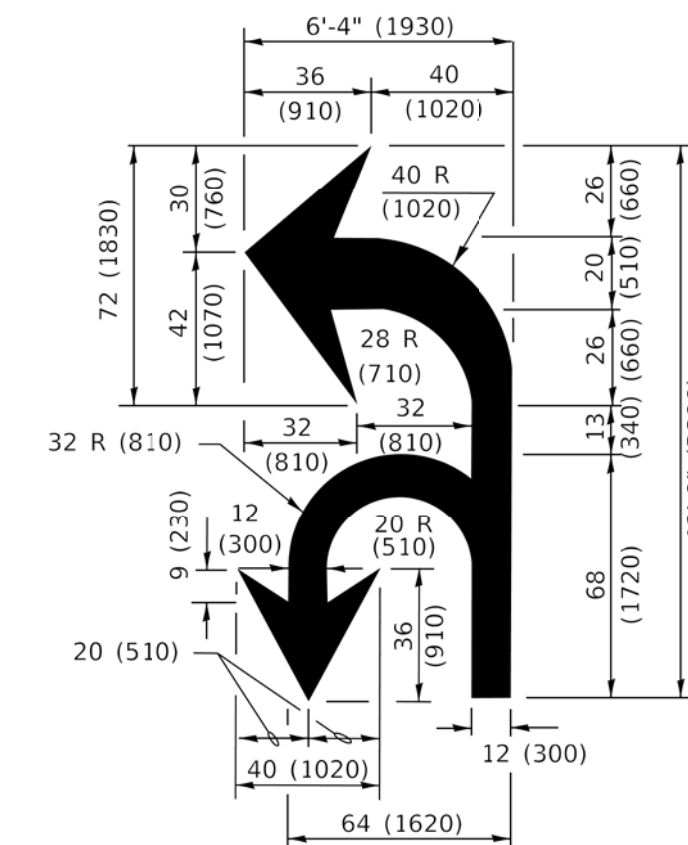
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

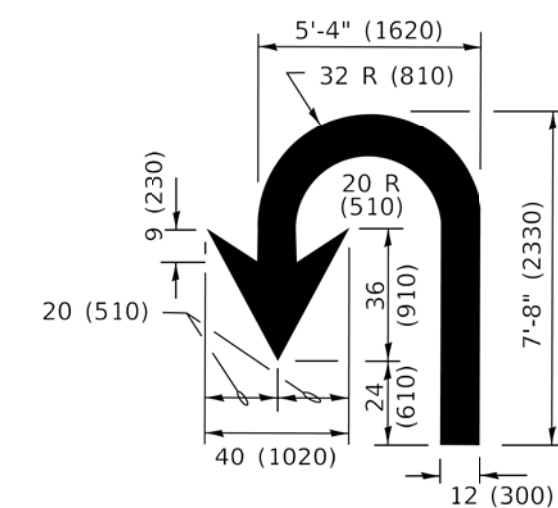
**TYPICAL TURN LANE MARKING**



**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**  
\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 2' (600) APART 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4 (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15
	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

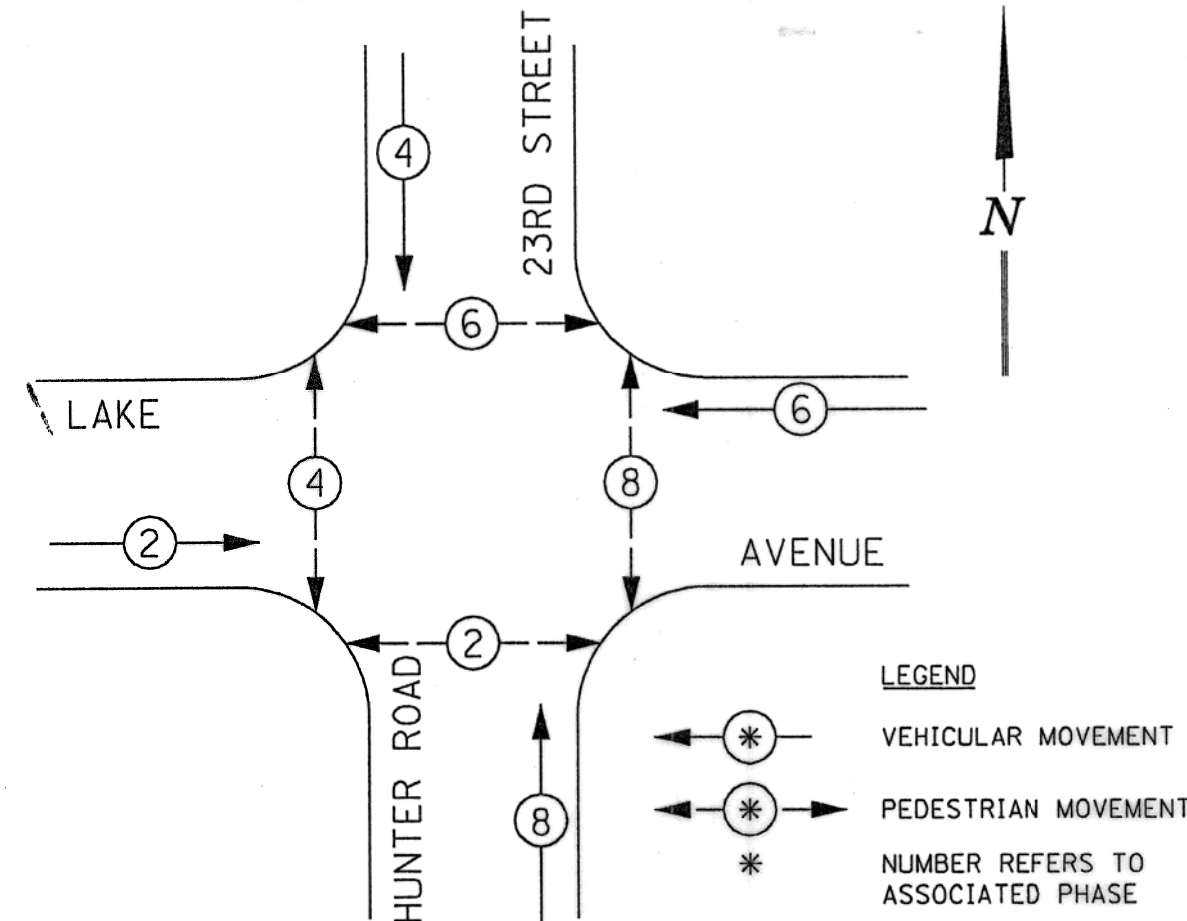
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13			
ILLINOIS		CONTRACT NO.		
FED. AID PROJECT				

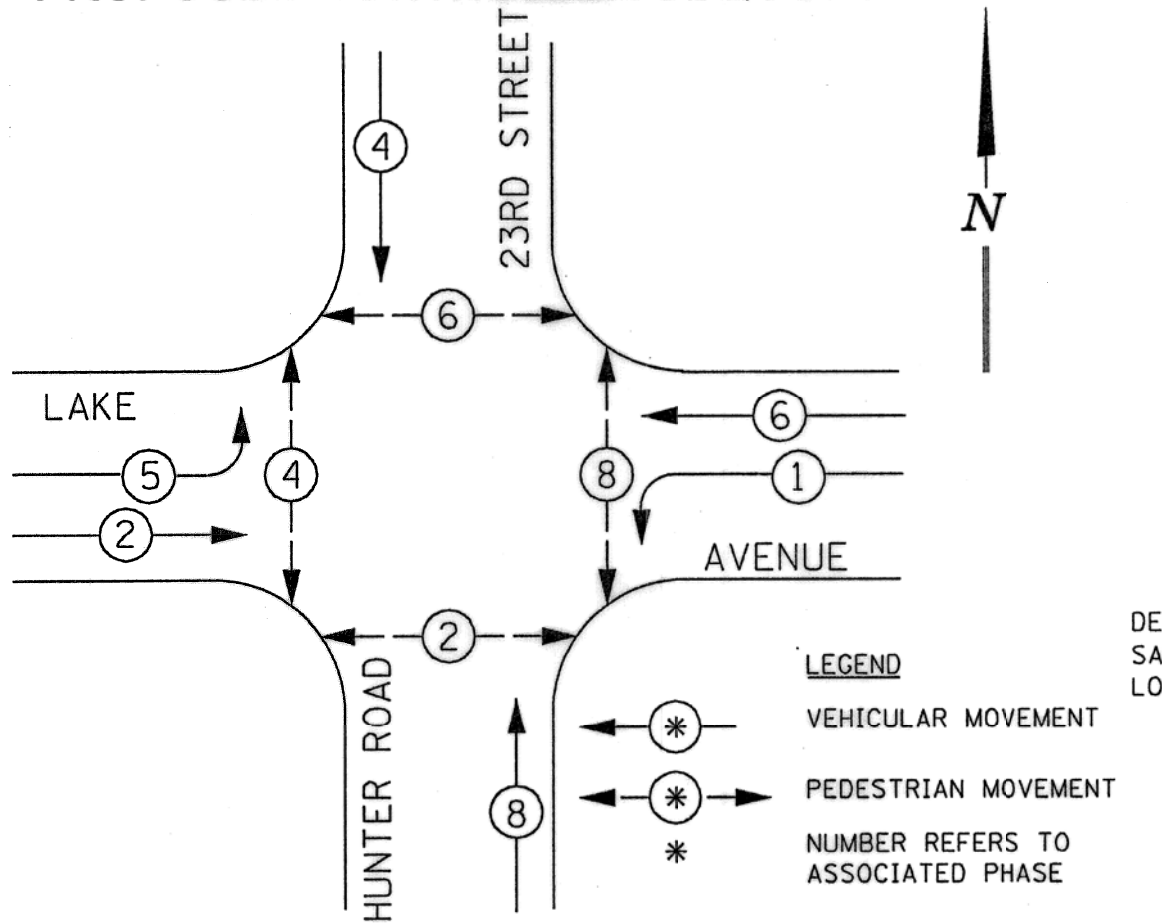
**EXISTING CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

DUAL ENTRY - ALL LEGS  
PROTECTED / PERMITTED LEFT TURN PHASING

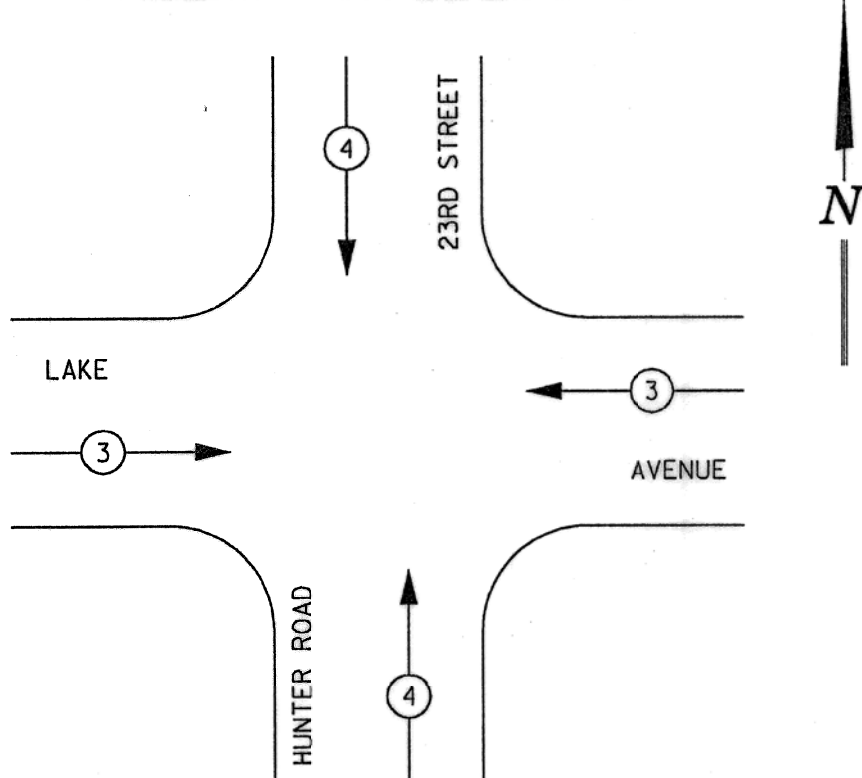
**PROPOSED CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

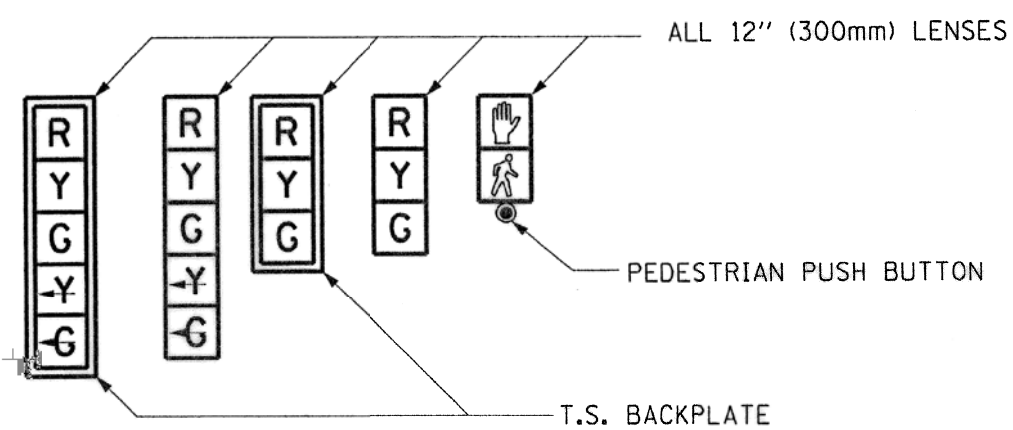
DUAL ENTRY - ALL LEGS  
PROTECTED / PERMITTED LEFT TURN PHASING

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EXISTING EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

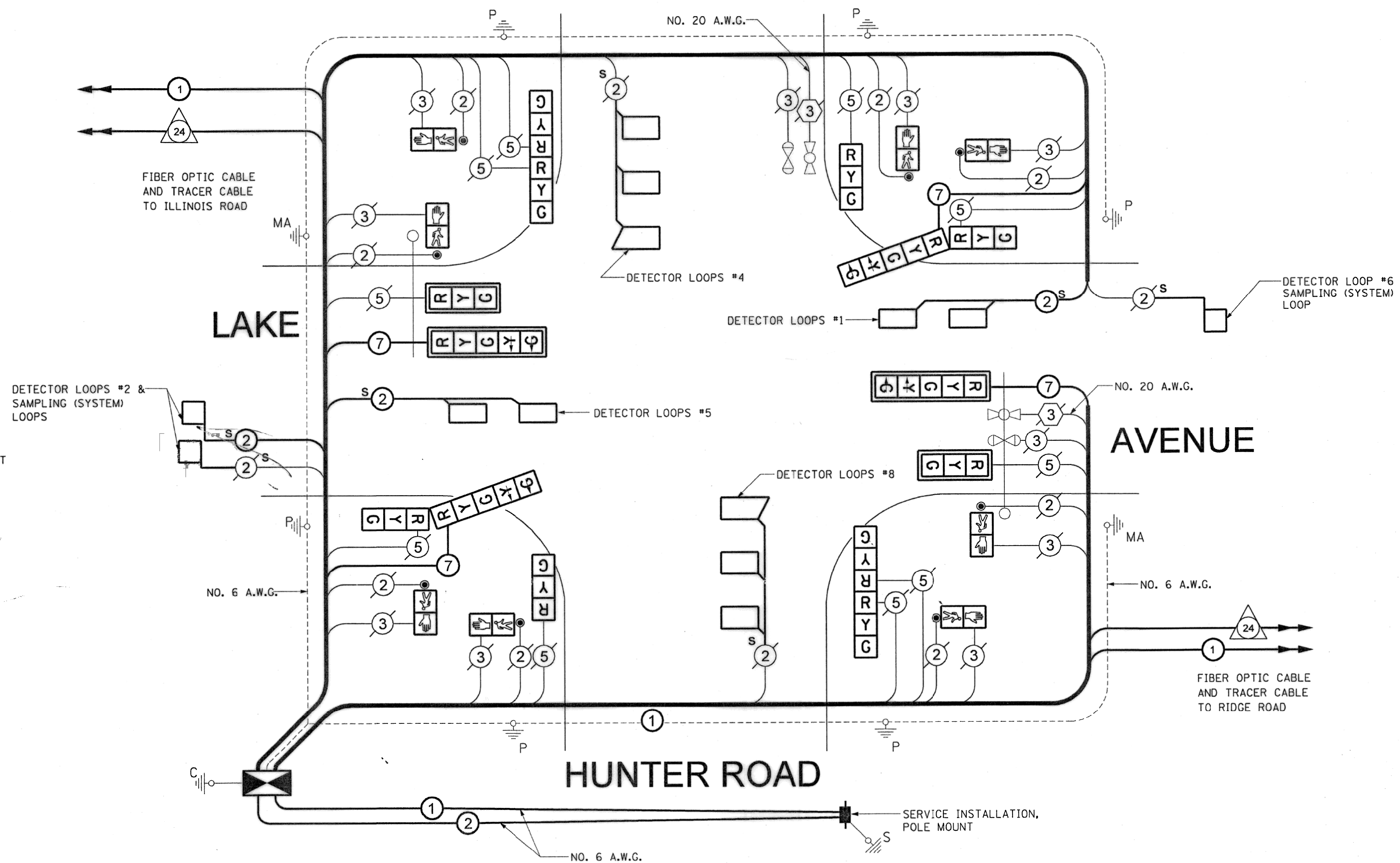
**SIGNAL FACES**



**SIGNAL LENSES**

- R RED
- Y YELLOW
- G GREEN
- Y- YELLOW TURN INDICATOR
- G- GREEN TURN INDICATOR

**23RD STREET**



**CABLE PLAN**  
NOT TO SCALE

**CABLE PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER CABINET		
SERVICE INSTALLATION		
8" (200mm) TRAFFIC SIGNAL SECTION		
12" (300mm) TRAFFIC SIGNAL SECTION		
12" (300mm) PEDESTRIAN SIGNAL SECTION		
<small>DENOTES NUMBER OF CONDUCTORS ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE TWISTED AND SHIELDED.</small>		
TELEPHONE INSTALLATION		
VEHICLE DETECTOR, INDUCTION LOOP		
SHIELDED & TWISTED		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
OPTICOM CABLE, NO. 20		
12" (300mm) PEDESTRIAN SIGNAL HEAD		
PUSHBUTTON DETECTOR		
<small>SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.</small>		
<small>GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), CONTROLLER (C), SERVICE (S), POST (P), OR MAST ARM POLE (MA).</small>		
<small>FIBER OPTIC CABLE, NO. 62.5/125 MULTIMODE 12 FIBERS AND SINGLE MODE 12 FIBERS</small>		

**NOTE:**

- THIS IS A SYSTEM GROUND THAT SHALL INTERCONNECT ALL GROUND RODS WITH NO. 6 1C COPPER AWG.
- THE NEUTRAL AND GROUND SHALL BE TIED AT THE SERVICE INSTALLATION BUT SEPARATE AT THE TRAFFIC CABINET.

**FOR INFORMATION ONLY**

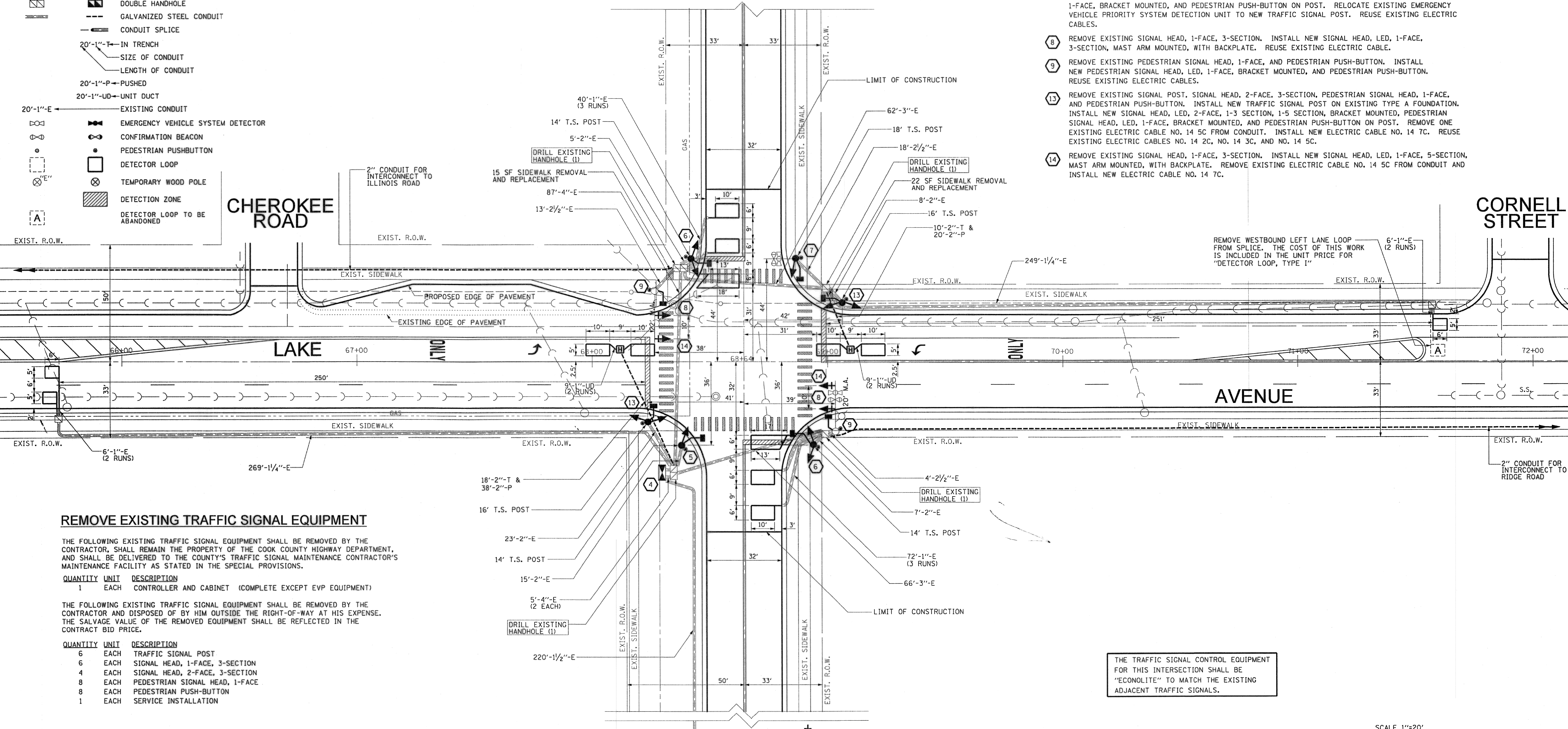
COUNTY OF COOK DEPARTMENT OF HIGHWAYS	
TRAFFIC SIGNAL INSTALLATION LAKE AVENUE AND HUNTER ROAD / 23RD STREET (CABLE PLAN)	
COMPUTED <u>WKT</u>	APPROVED <u>[Signature]</u> 20 08
DRAWN <u>PSS/LP</u>	CHECKED <u>[Signature]</u>
CHECKED <u>PLW/RJJ</u>	CHIEF ENGINEER

**LEGEND**

EXISTING	PROPOSED	
		CONTROLLER
		SERVICE INSTALLATION
		SIGNAL HEAD
		SIGNAL HEAD, OPTICALLY PROGRAMMED
		SIGNAL HEAD AND POST
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, ALUMINUM
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		GALVANIZED STEEL CONDUIT
		CONDUIT SPLICE
		20'-1"-T IN TRENCH
		20'-1"-P PUSHED
		20'-1"-UD UNIT DUCT
		EXISTING CONDUIT
		EMERGENCY VEHICLE SYSTEM DETECTOR
		CONFIRMATION BEACON
		PEDESTRIAN PUSHBUTTON
		DETECTOR LOOP
		TEMPORARY WOOD POLE
		DETECTION ZONE
		DETECTOR LOOP TO BE ABANDONED

**CONSTRUCTION NOTES**

- 1 REMOVE EXISTING SERVICE INSTALLATION. INSTALL NEW SERVICE INSTALLATION, POLE MOUNT. REMOVE EXISTING ELECTRIC CABLE FROM CONDUIT. INSTALL NEW ELECTRIC CABLE NO. 6 2C.
- 4 REMOVE EXISTING CONTROLLER AND CABINET. INSTALL NEW CONTROLLER AND TYPE IV CABINET ON EXISTING FOUNDATION. RELOCATE EXISTING EVP SYSTEM PHASING UNIT TO NEW CABINET.
- 5 REMOVE EXISTING SIGNAL POST, SIGNAL HEAD, 1-FACE, 3-SECTION, PEDESTRIAN SIGNAL HEAD, 1-FACE, AND PEDESTRIAN PUSH-BUTTON. INSTALL NEW TRAFFIC SIGNAL POST ON EXISTING TYPE A FOUNDATION. INSTALL NEW SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, AND PEDESTRIAN PUSH-BUTTON ON POST. REUSE EXISTING ELECTRIC CABLES.
- 6 REMOVE EXISTING SIGNAL POST, SIGNAL HEAD, 2-FACE, 3-SECTION, PEDESTRIAN SIGNAL HEAD, 1-FACE, AND PEDESTRIAN PUSH-BUTTON. INSTALL NEW TRAFFIC SIGNAL POST ON EXISTING TYPE A FOUNDATION. INSTALL NEW SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, AND PEDESTRIAN PUSH-BUTTON ON POST. REUSE EXISTING ELECTRIC CABLES.
- 7 REMOVE EXISTING SIGNAL POST, SIGNAL HEAD, 1-FACE, 3-SECTION, PEDESTRIAN SIGNAL HEAD, 1-FACE, AND PEDESTRIAN PUSH-BUTTON. INSTALL NEW TRAFFIC SIGNAL POST ON EXISTING TYPE A FOUNDATION. INSTALL NEW SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, AND PEDESTRIAN PUSH-BUTTON ON POST. RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM DETECTION UNIT TO NEW TRAFFIC SIGNAL POST. REUSE EXISTING ELECTRIC CABLES.
- 8 REMOVE EXISTING SIGNAL HEAD, 1-FACE, 3-SECTION. INSTALL NEW SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, WITH BACKPLATE. REUSE EXISTING ELECTRIC CABLE.
- 9 REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, 1-FACE, AND PEDESTRIAN PUSH-BUTTON. INSTALL NEW PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, AND PEDESTRIAN PUSH-BUTTON. REUSE EXISTING ELECTRIC CABLES.
- 13 REMOVE EXISTING SIGNAL POST, SIGNAL HEAD, 2-FACE, 3-SECTION, PEDESTRIAN SIGNAL HEAD, 1-FACE, AND PEDESTRIAN PUSH-BUTTON. INSTALL NEW TRAFFIC SIGNAL POST ON EXISTING TYPE A FOUNDATION. INSTALL NEW SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, AND PEDESTRIAN PUSH-BUTTON ON POST. REMOVE ONE EXISTING ELECTRIC CABLE NO. 14 5C FROM CONDUIT. INSTALL NEW ELECTRIC CABLE NO. 14 7C. REUSE EXISTING ELECTRIC CABLES NO. 14 2C, NO. 14 3C, AND NO. 14 5C.
- 14 REMOVE EXISTING SIGNAL HEAD, 1-FACE, 3-SECTION. INSTALL NEW SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, WITH BACKPLATE. REMOVE EXISTING ELECTRIC CABLE NO. 14 5C FROM CONDUIT AND INSTALL NEW ELECTRIC CABLE NO. 14 7C.



**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE COOK COUNTY HIGHWAY DEPARTMENT, AND SHALL BE DELIVERED TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAINTENANCE FACILITY AS STATED IN THE SPECIAL PROVISIONS.

QUANTITY	UNIT	DESCRIPTION
1	EACH	CONTROLLER AND CABINET (COMPLETE EXCEPT EVP EQUIPMENT)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY HIM OUTSIDE THE RIGHT-OF-WAY AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

QUANTITY	UNIT	DESCRIPTION
6	EACH	TRAFFIC SIGNAL POST
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT TRAFFIC SIGNALS.

**NOTE:**  
THE CONTRACTOR SHALL MARK THE LOCATIONS OF ALL DETECTOR LOOPS AND CONTACT THE CHD DESIGN ENGINEER AT (312) 603-1730 FOR LOCATION APPROVAL PRIOR TO THE CUTTING OF THE LOOPS. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCE NOTICE IS REQUIRED.

**FOR INFORMATION ONLY**

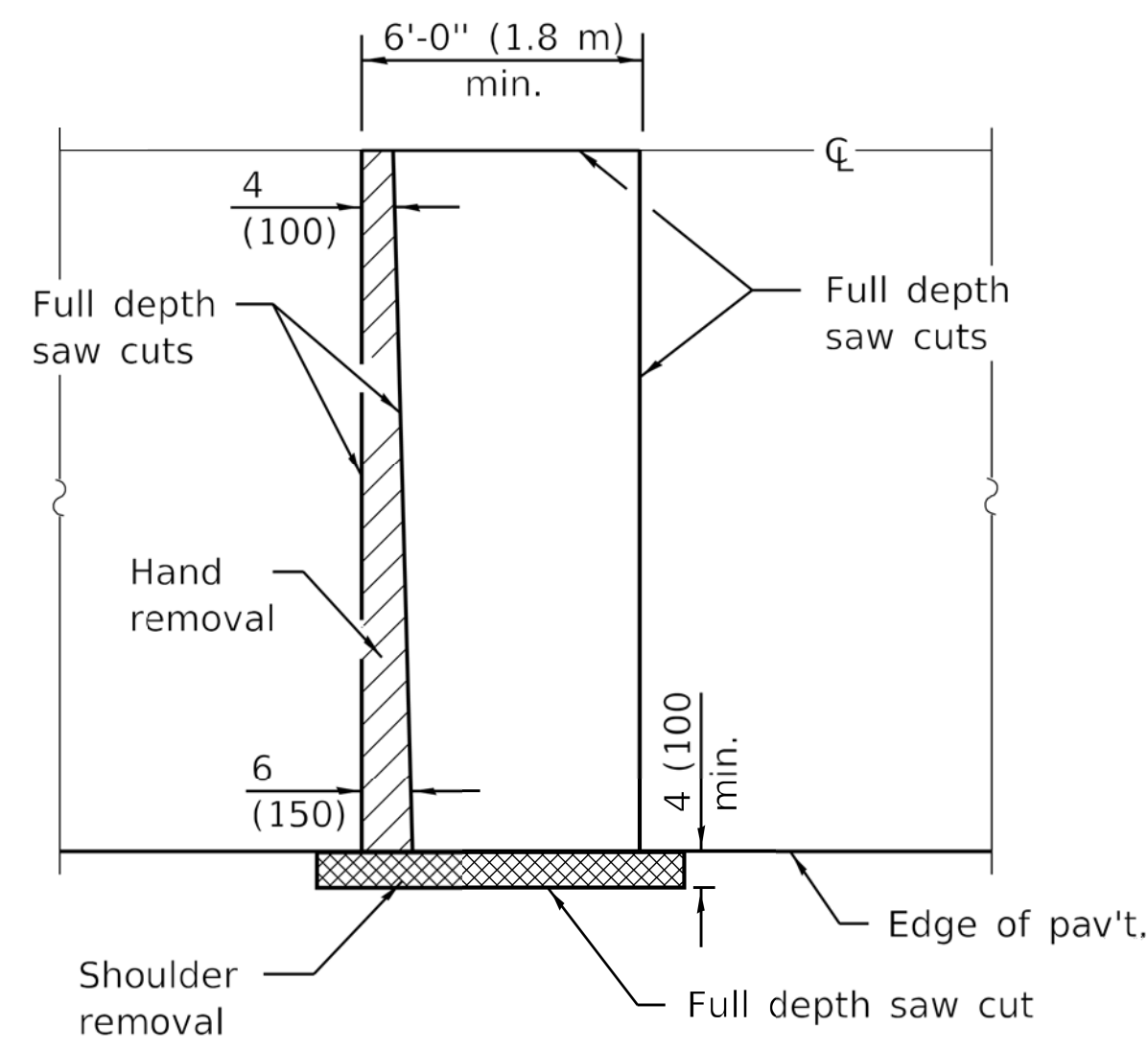
SCALE 1"=20'

COUNTY OF COOK  
DEPARTMENT OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION  
LAKE AVENUE AND HUNTER ROAD / 23RD STREET  
(DESIGN PLAN)

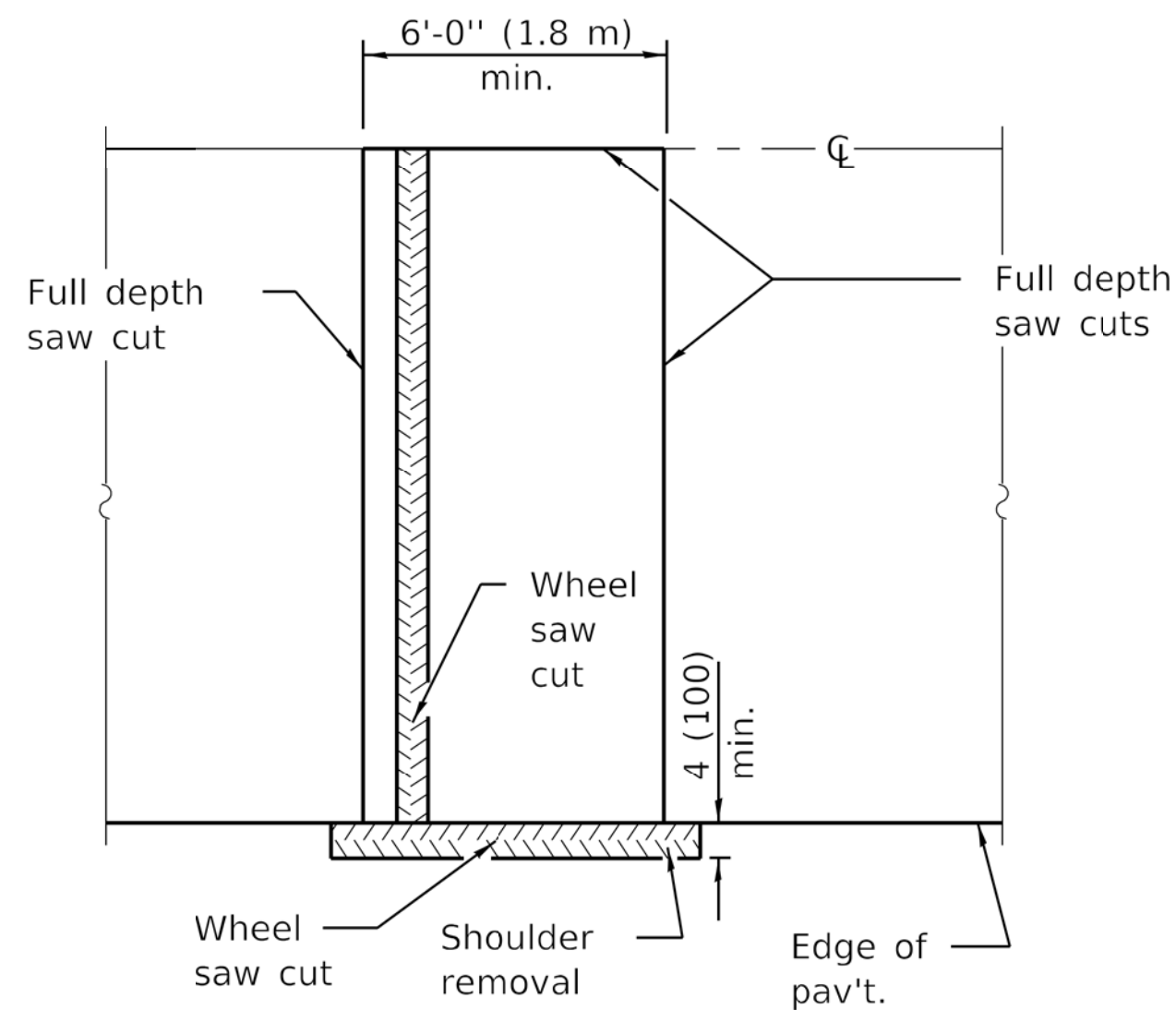
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DRAWN	PSS/LMP		
CHECKED	PLW/RJJ		

CHIEF ENGINEER



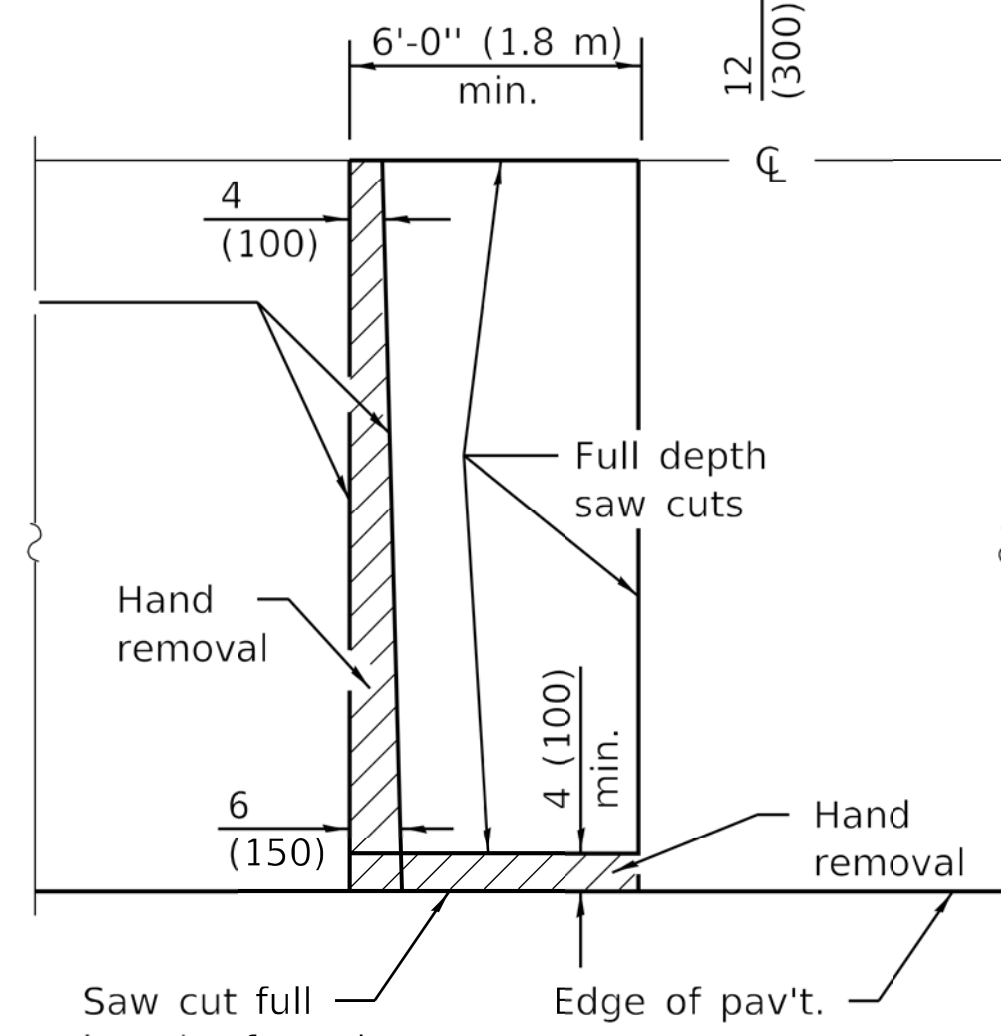
**PAVEMENT SAWING DETAIL**

(HMA SHOULDER)



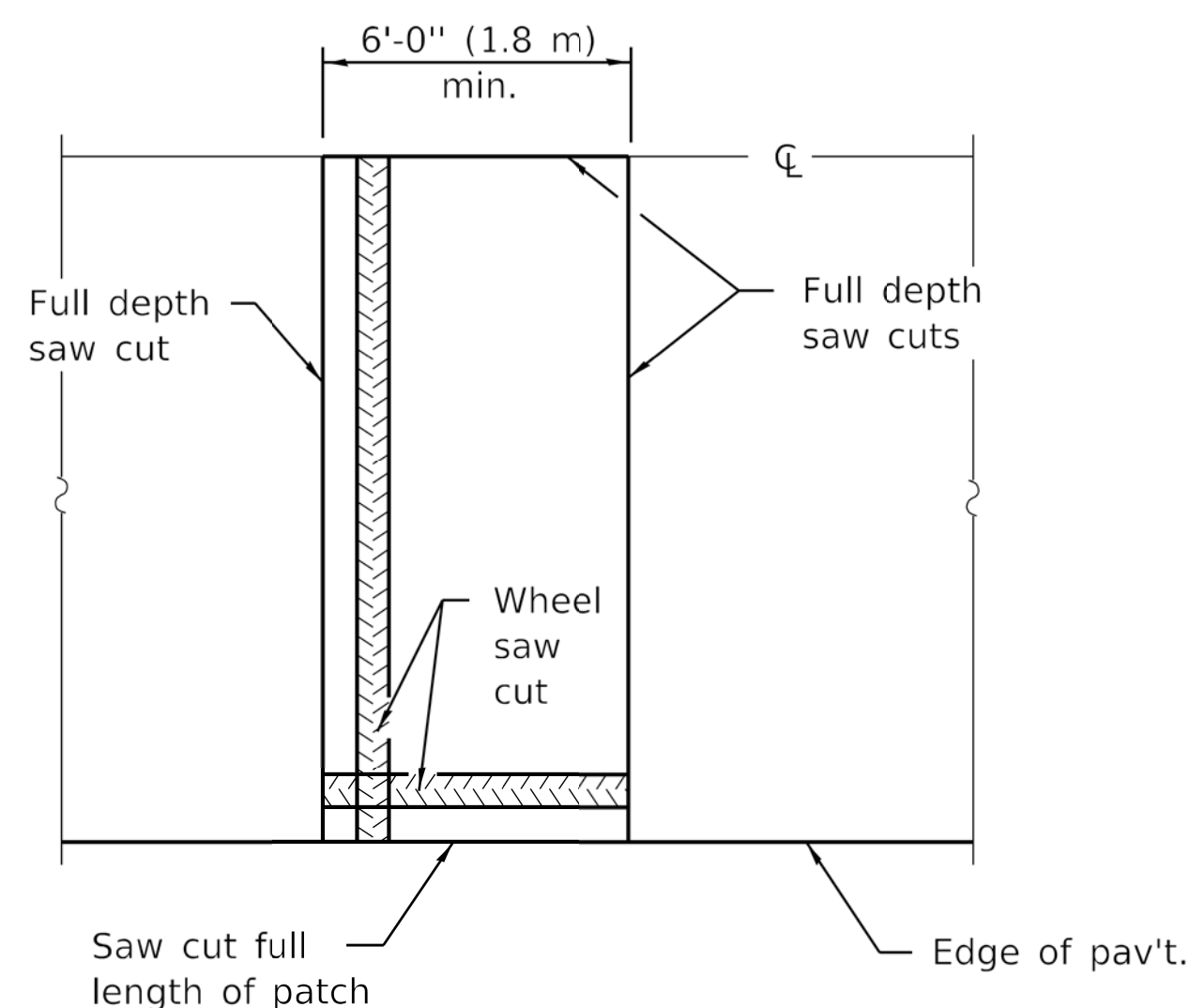
**ALTERNATE SAWING DETAIL**

(HMA SHOULDER)



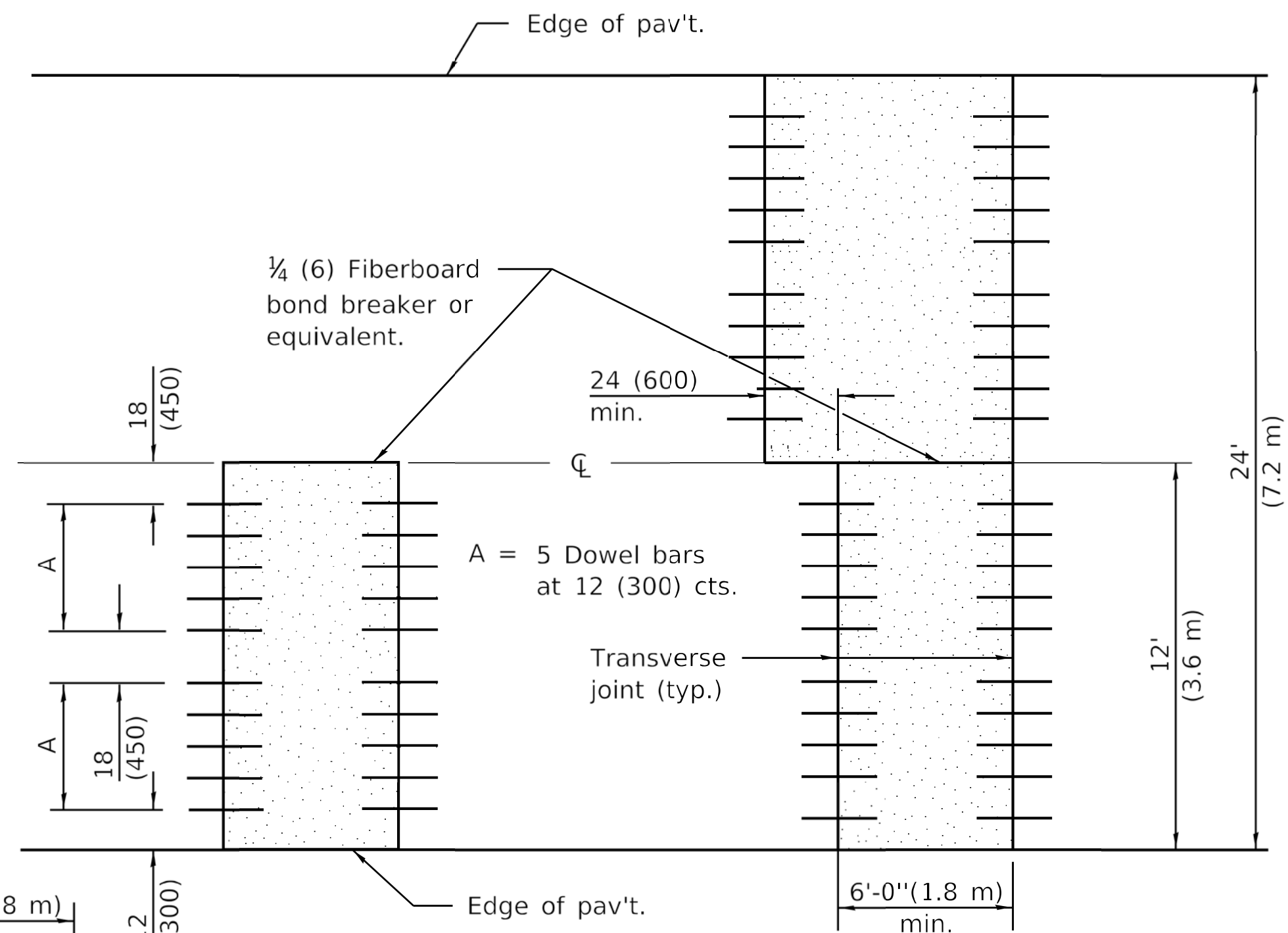
**PAVEMENT SAWING DETAIL**

(PCC SHOULDER)

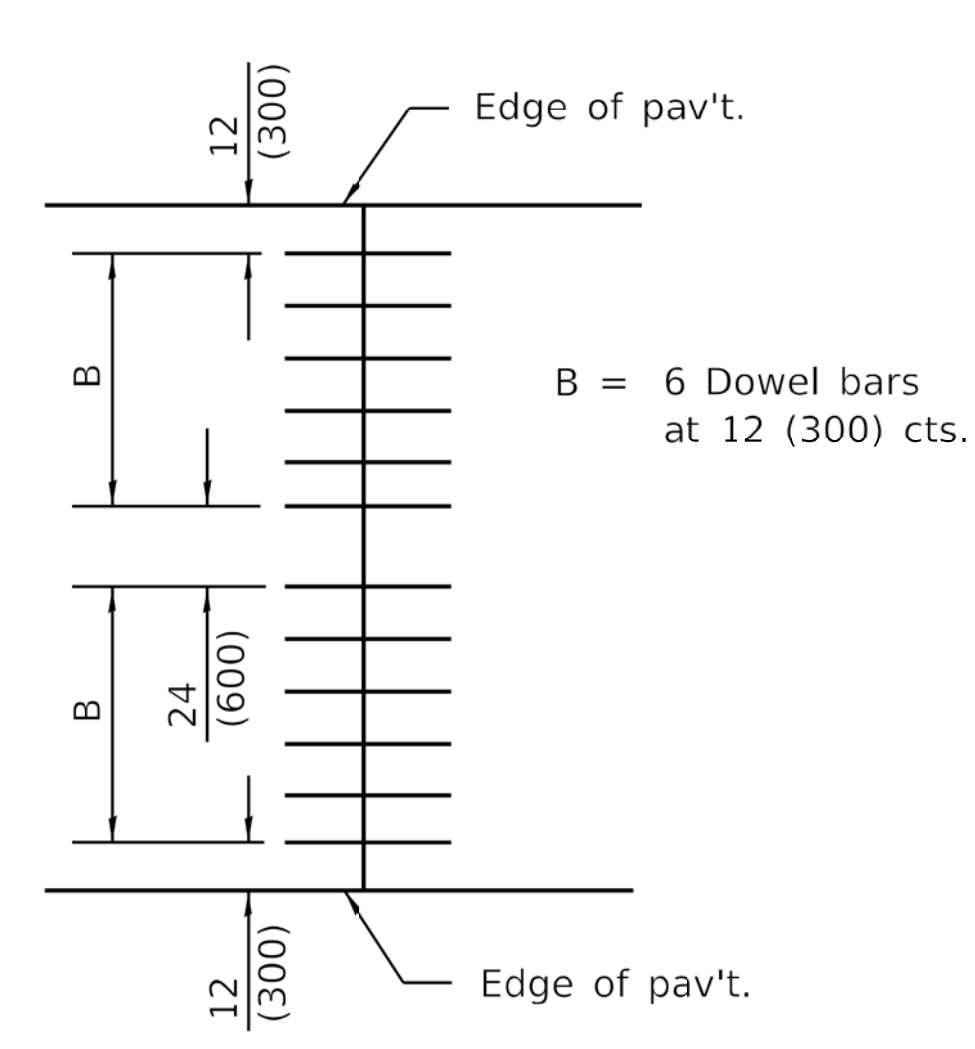


**ALTERNATE SAWING DETAIL**

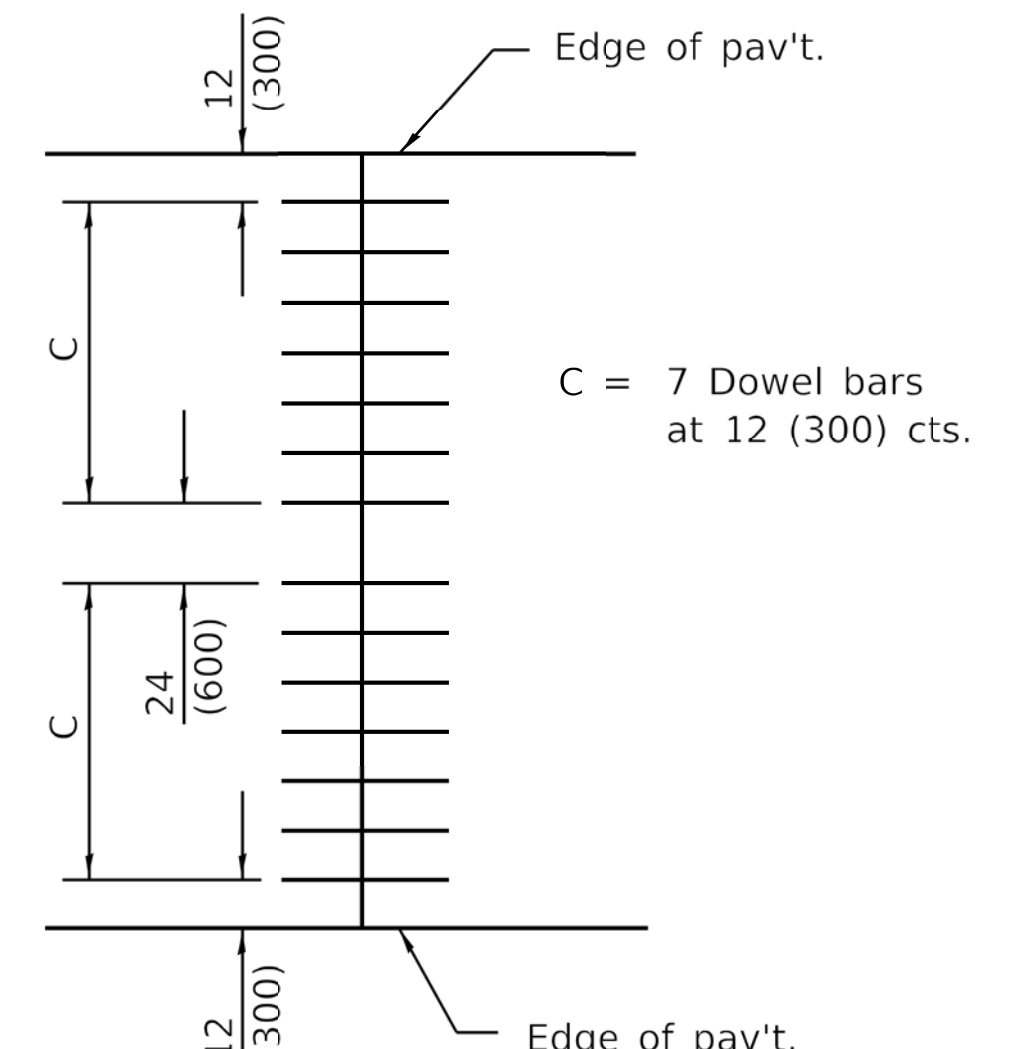
(PCC SHOULDER)



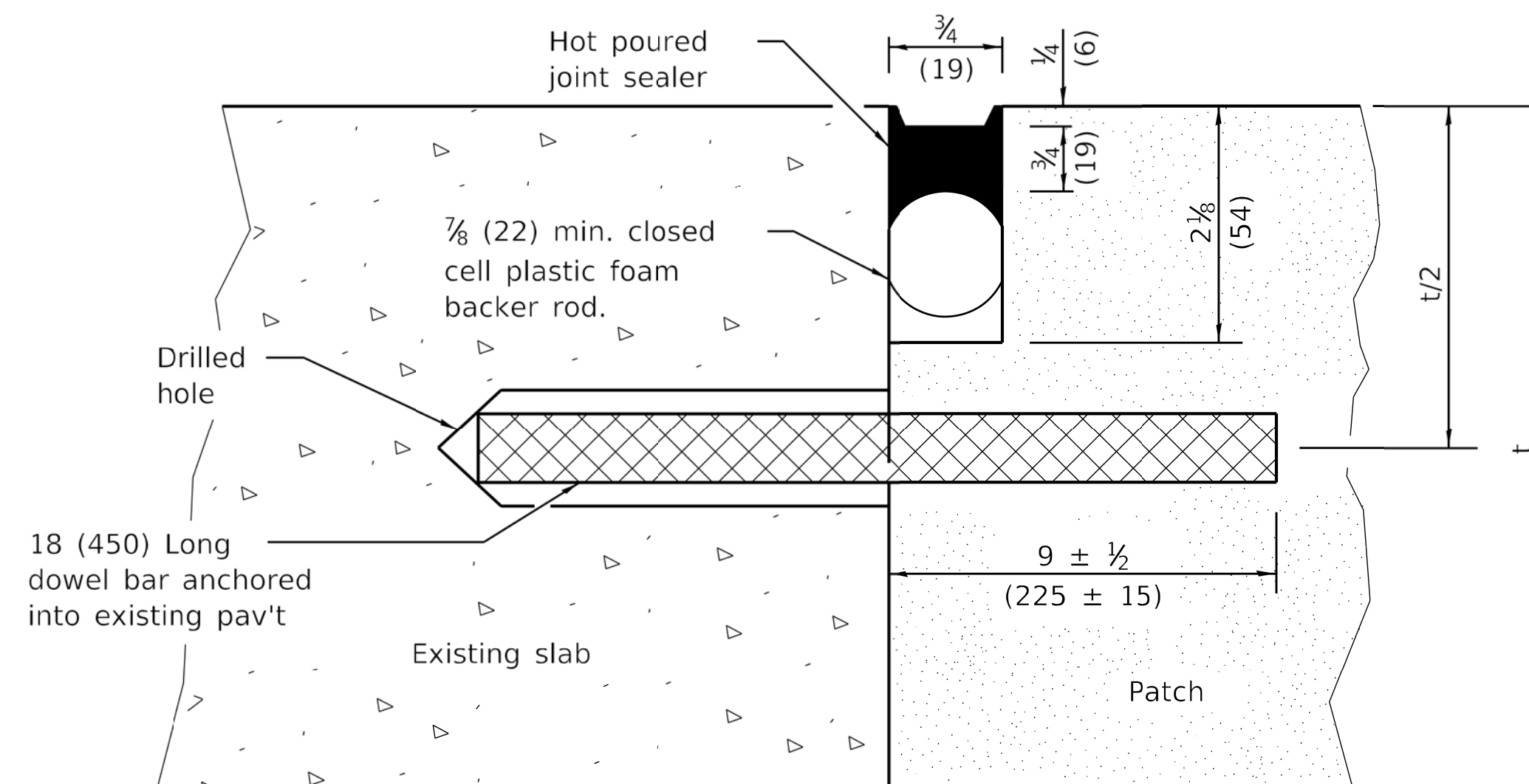
**12' (3.6 m) WIDE LANES**



**14' (4.2 m) WIDE RAMP**

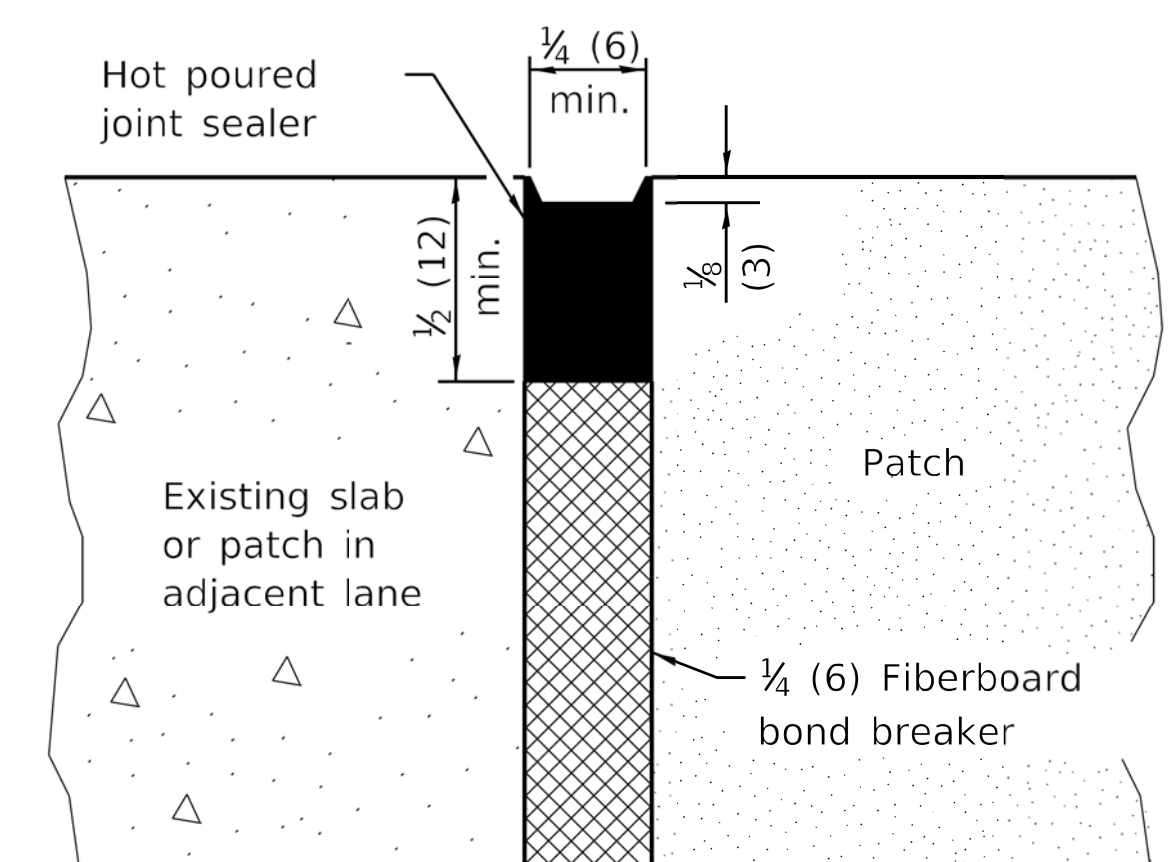


**16' (4.8 m) WIDE RAMP**



**TRANSVERSE JOINT**

DOWEL BAR TABLE		
PAVEMENT THICKNESS	DOWEL BAR DIAMETER	HOLE DIAMETER
10 (250) or greater	1½ (38)	1⅝ (41)
8 (200) thru 9.99 (249)	1¼ (32)	1⅜ (35)
Less than 8 (200)	1 (25)	1⅞ (29)



**CENTERLINE JOINT**

**GENERAL NOTES**

The transverse joints for Class B patches shall align with joints or cracks in the adjacent lane whenever possible.

See Standard 420701 for details of welded wire reinforcement.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Revised reference to Standard 420701 in General Notes.
1-1-18	Revised DOWEL BAR TABLE.

**CLASS B PATCHES**

(Sheet 1 of 2)

**STANDARD 442101-09**

Illinois Department of Transportation

PASSED January 1, 2019

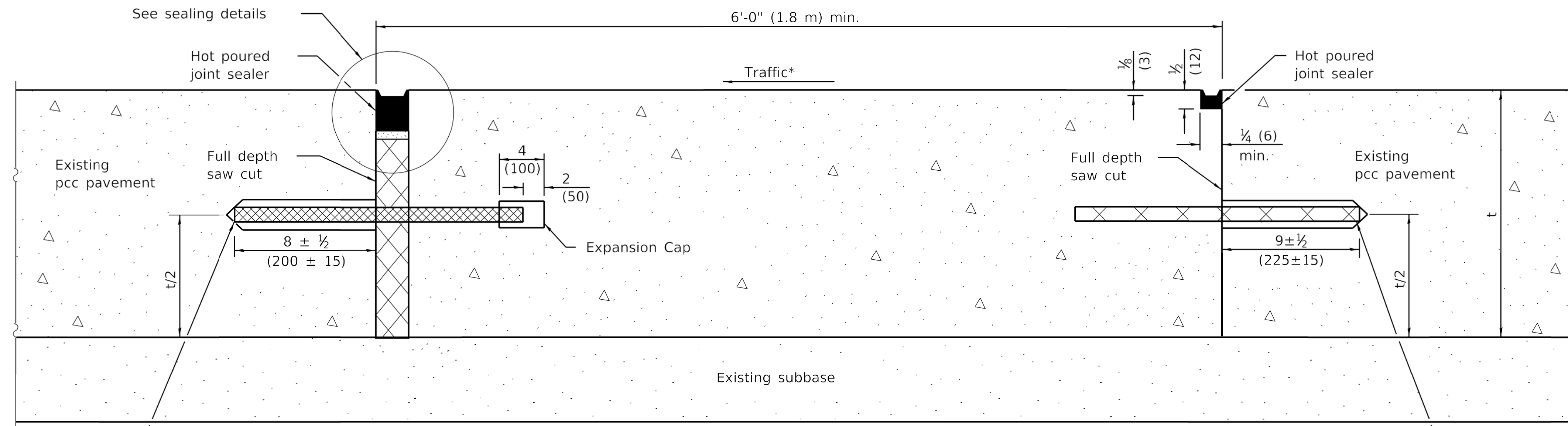
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-19

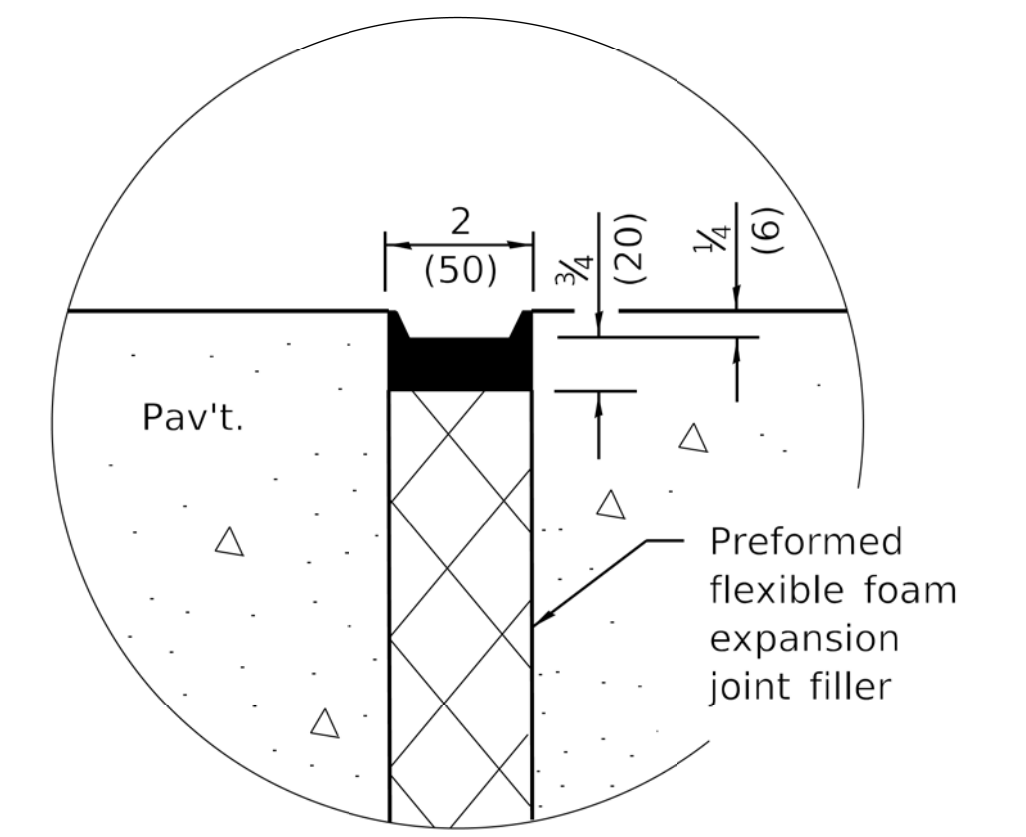
**TRANSVERSE EXPANSION JOINTS**



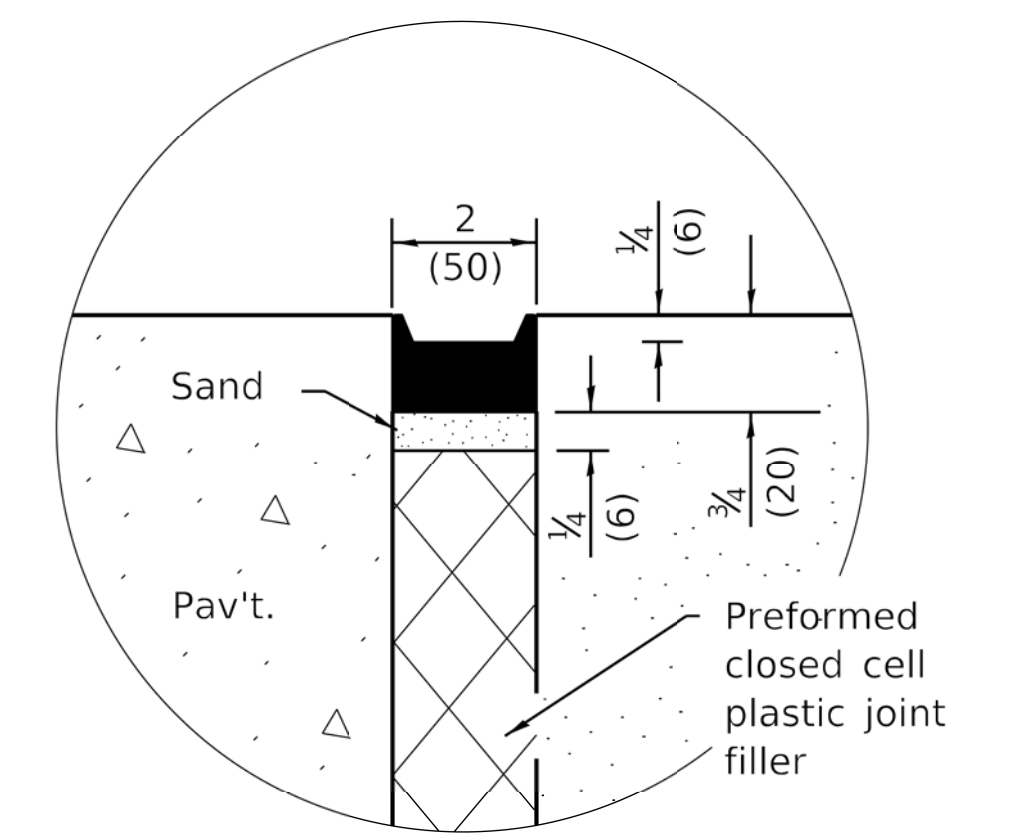
18 (450) Long dowel bars anchored into existing pavement at 12 (300) cts.

**METHOD I**  
(Without Resurfacing)

No. 10x18 (No. 32x450) Tie bars anchored into existing pavement at 12 (300) cts.



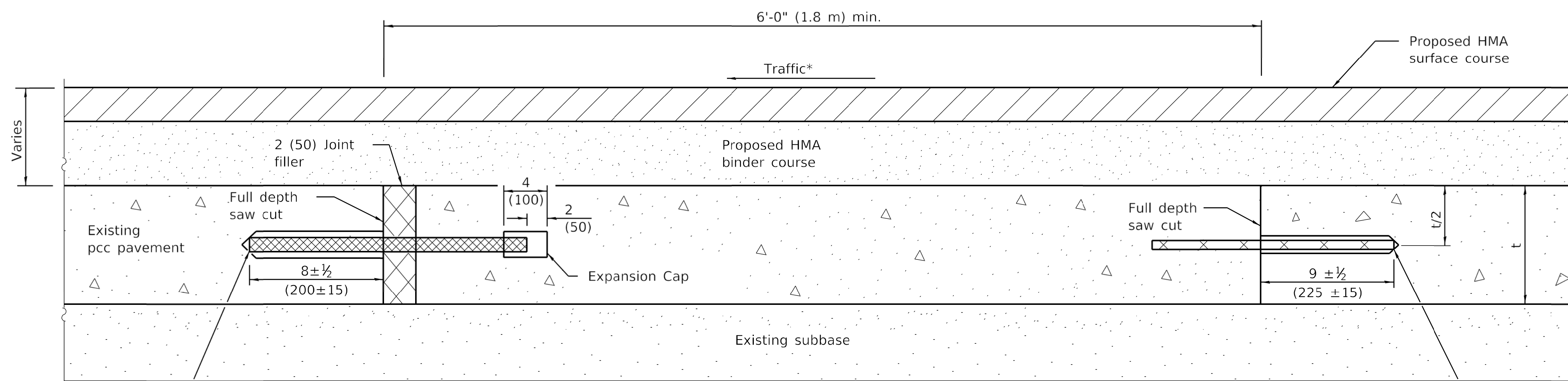
**SEALING DETAIL**



**SEALING DETAIL**

**NOTE**

\* When re-establishing a transverse expansion joint on a two-lane, two-way road, reverse the orientation of the dowel bars with respect to traffic for one of the patches such that the joint will be continuous across both lanes.



18 (450) Long dowel bars anchored into existing pavement at 12 (300) cts.

**METHOD II**  
(With Resurfacing)

No. 10x18 (No. 32x450) Tie bars anchored into existing pavement at 12 (300) cts.

Illinois Department of Transportation

PASSED January 1, 2019  
*Michael B. ...*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*J. E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**CLASS B PATCHES**

(Sheet 2 of 2)

**STANDARD 442101-09**