

THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE A MINIMUM OF 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. STANDARD SPECIFICATIONS: PERFORM ALL WORK IN ACCORDANCE WITH THE PROVISIONS OF "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", MOST RECENT EDITION, AND "STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND OTHER REVISIONS TO DATE, UNLESS OTHERWISE SPECIFIED IN THE SPECIFICATIONS. ALL CONTRACTORS SHALL OBTAIN A COPY OF "THE VILLAGE OF SUSSEX DEVELOPMENT REQUIREMENTS" PRIOR TO THE START OF CONSTRUCTION.

GENERAL UTILITY CONSTRUCTION NOTES

- TRACER WIRE:
TRACER WIRE AND TRACER WIRE ACCESS BOXES SHALL BE PROVIDED ON WATER MAINS & LATERALS AND SANITARY LATERALS. DETECTOR WIRE SHALL BE INSTALLED PER SWS 4.314 EXCEPT, ATTACH DETECTOR WIRE BOX TO BACK OF HYDRANT. INSTALL LOCATOR BOXES AT ALL HYDRANTS AND/OR MANHOLES. USE DIRECT BURIAL RATED INSULATED AWG #10 COPPER CONDUCTOR. INSTALL LOCATOR WIRE WITH ALL PVC WATER MAIN AND POLYETHYLENE WATER SERVICES. TAPE LOCATOR WIRE DIRECTLY ONTO WATER AND/OR SANITARY PIPE AT 10' INTERVALS. **NOTE: TRACER WIRE MUST BE CONTIGUOUS AND INSTALLED IN A MANNER FOR CONVENIENT CONNECTION FOR EASY LOCATING OF PIPE.**
 - GROUNDING OF DETECTION WIRE SHALL BE ACHIEVED BY USING DRIVE-IN MAGNESIUM GROUNDING ANODE ROD (MIN. 1.5 LBS.) WITH MINIMUM OF 20 FEET OF #10 RED HDPE INSULATED COPPER CLAD STEEL WIRE CONNECTED TO ANODE SPECIFICALLY MANUFACTURED FOR THIS PURPOSE, AND BURIED AT THE SAME ELEVATION AS THE UTILITY.
 - WHEN GROUNDING THE DETECTION WIRE AT DEAD ENDS/STUBS, THE GROUNDING ANODE SHALL BE INSTALLED IN A DIRECTION 180 DEGREES OPPOSITE OF THE DETECTION WIRE, AT THE MAXIMUM POSSIBLE DISTANCE.
 - WHEN GROUNDING THE DETECTION WIRE IN AREAS WHERE THE WIRE IS CONTINUOUS AND NEITHER THE MAINLINE DETECTION WIRE OR THE GROUNDING ANODE WIRE WILL BE TERMINATED AT/ABOVE GRADE, INSTALL GROUNDING ANODE DIRECTLY BENEATH AND IN-LINE WITH THE DETECTION WIRE. DO NOT COIL EXCESS WIRE FROM THE GROUNDING ANODE. IN THIS INSTALLATION METHOD, THE GROUNDING ANODE WIRE SHALL BE TRIMMED TO AN APPROXIMATE LENGTH BEFORE CONNECTION TO DETECTION WIRE WITH A MAINLINE TO LATERAL LUG CONNECTOR.
 - WHERE THE ANODE WILL BE CONNECTED TO A DETECTION WIRE ACCESS BOX, A MINIMUM OF 2 FEET OF EXCESS/SLACK WIRE IS REQUIRED AFTER MEETING FINAL ELEVATION.

CONTRACTOR SHALL BE REQUIRED TO PERFORM CONDUCTIVITY TESTING OF ALL DETECTION WIRE.

- PIPE BACKFILLING:
 - SHALL CONFORM TO TABLE 37 OF SECTION 8.43 OF THE STANDARD SPECIFICATIONS OF SEWER AND WATER CONSTRUCTION IN WISCONSIN, EXCEPT ADJUST THE P200 SIEVE TO BE BETWEEN 5% AND 12%.
 - COMPACTION SHALL BE DONE IN 1 FT LIFTS AND TO A MINIMUM OF 95% PROCTOR DENSITY.
 - ALL UTILITY TRENCHES WITHIN THE ROAD ROW SHALL BE BACKFILLED TO AN ELEVATION EQUAL TO THE TOP OF SUBGRADES WITH GRANULAR BACKFILL PRE-APPROVED BY THE VILLAGE OF SUSSEX.
 - ALL UTILITY TRENCHES LOCATED OUTSIDE OF THE ROAD ROW SHALL BE BACKFILLED TO AN ELEVATION EQUAL TO 1-FOOT BELOW THE FINISHED GRADES AS DEFINED BY THE MASTER GRADING PLAN WITH GRANULAR BACKFILL PRE-APPROVED BY THE VILLAGE OF SUSSEX.
- INSULATION:
 - INSULATION IS REQUIRED FOR ANY SANITARY SEWER, WATER MAIN, AND/OR LATERAL WITH LESS THAN SIX FEET OF COVER.
 - INSULATION IS REQUIRED FOR WATER SERVICES AND WATER MAINS THAT CROSS BENEATH STORM SEWER WITH LESS THAN TWO FEET OF VERTICAL SEPARATION.
 - INSULATION IS REQUIRED FOR ANY SANITARY SEWER, WATER MAIN, AND/OR LATERAL WITH LESS THAN TWO FEET OF VERTICAL SEPARATION BETWEEN PIPES.

WATER DISTRIBUTION SYSTEM

- WATER MAIN:
 - PVC, C-900, CLASS 150 (DR-18) FOR PUBLIC WATERMAIN. PVC PIPE SHALL HAVE PUSH-ON JOINTS WITH RUBBER GASKET. COR-BLUE (EPOXY COATED) BOLTS SHALL BE USED THROUGHOUT THE WATER SYSTEM.
- FITTINGS:
 - DOMESTIC FITTINGS MADE IN USA SHALL BE REQUIRED FOR ALL WATER MAIN APPURTENANCES.
- HYDRANTS:
 - KENNEDY-GUARDIAN, CLOW MEDALLION, OR MUELLER A-423 SUPER CENTURIAN
 - COMPRESSION TYPE WITH SAFETY FLANGE CONSTRUCTION, "BREAK AWAY FLANGE" MEETING REQUIREMENTS OF AWWA 502 AND MEETING SPECIFICATIONS FOR 300 PSI
 - TEST PRESSURE AND 150 PSI WORKING PRESSURE.
 - MAIN VALVE OPENING - 5 1/4"
 - HOSE CONNECTIONS - (2) 2 1/2" & (1) 4 1/2" (NATIONAL STANDARD HOSE THREAD).
 - INLET CONNECTION - FLANGED.
 - SIZE OF INLET CONNECTION - 6".
 - DEPTH OF TRENCH (BURY) - GROUND LINE TO BOTTOM OF CONNECTING PIPE.
 - DIRECTION OF OPENING - LEFT HAND (COUNTERCLOCKWISE).
 - OPERATING NUT - NATIONAL STANDARD 1 1/2" PENTAGON.
 - HYDRANT COLOR - FACTORY PAINTED YELLOW.
 - PACKING - "O" RING.
 - LOWER STEM - STAINLESS STEEL.
 - HYDRANT MARKER - 5' TALL "HYDRAFINDER", 5' FIBERGLASS MARKER WAND SHALL BE INSTALLED ON EACH HYDRANT. FASTEN WAND TO BREAK AWAY FLANGE (CLOW FLANGE). "HYDRAFINDER" IS MANUFACTURED BY THE RODON CORPORATION (630) 262-1477.
 - HYDRANTS SHALL BE SET 3' BEHIND THE BACK OF CURB.
- VALVES:
 - ALL VALVES SHALL CONSIST OF COST IRON BODY, FLANGE JOINT, O-RING STEM SEALS AND OPENING COUNTER CLOCKWISE, NON-RISING STEM WITH EPOXY INTERIOR, AND EXTERIOR COATING PER AWWA C-550.
 - "SPIDER" ADAPTERS ARE REQUIRED ON ALL ALL VALVES.
 - GATE VALVES REQUIRED FOR ALL MAINS OF 10" DIAMETER AND UNDER.
 - BUTTERFLY VALVES ARE REQUIRED FOR ALL MAINS OF 12" DIAMETER AND ABOVE.
 - GATE VALVE TYPES - CLOW F6100, M&H 4067-01, OR MUELLER 2-2360, CONFORMING TO AWWA C-509.
 - BUTTERFLY VALVE TYPES - CLOW F5370, M&H 4500, OR MUELLER LINESEAL III, CONFORMING TO AWWA C-509.
 - 10" OR LESS VALVES SHALL BE GATE VALVES. 12" OR GREATER VALVES SHALL BE BUTTERFLY VALVES.

- VALVE BOX:
 - ALL GATE AND BUTTERFLY VALVES SHALL BE PLACED IN VALVE BOXES. VALVE BOXES SHALL HAVE APPROPRIATE VALVE BOX ADAPTERS AND BE 3 PIECE CAST IRON VALVE BOXES CONSISTING OF BASE, SCREW TYPE CENTER (5-1/4" SHAFT DIAMETER) AND TOP SECTION WITH "TRAFFIC CAP" DROP LID AND WITH COVER MARKED "WATER". EXTENSION SECTIONS SHALL BE FURNISHED AS REQUIRED. ALL WATER VALVES AND BOX EXTENSIONS SHALL BE POLYWRAPPED IN ACCORDANCE WITH SECTION 401.6.1.B OF VILLAGE SPECS. SET ALL VALVE BOXES TO FINAL GRADE UPON INSTALLATION. RAMP / WEDGE AROUND VALVE BOXES DURING ASPHALT BINDER COURSE PLACEMENT. PRIOR TO ASPHALT SURFACE COURSE PLACEMENT, MILL AROUND VALVE BOXES TO PREPARE FOR THE SURFACE COURSE PLACEMENT.
- WATER SERVICES:
 - WATER SERVICES SHALL BE POLYETHYLENE TUBING: 1-1/4" FOR SINGLE FAMILY LOTS, AND SHALL EXTEND BEYOND THE RIGHT OF WAY LIMITS A SHORT DISTANCE. ADDITIONAL LENGTH OF WATER SERVICE PIPING SHALL EXTEND BEYOND THE CURB STOPS AND INSIDE THE PROPERTIES A SHORT DISTANCE FOR EACH.
- CURB STOP BOXES:
 - THE CURB STOP BOXES SHALL BE PROTECTED WITH 4" PVC PIPE (MIN. LENGTH 30") WITH CAP. THE CAP SHALL NOT BE GLUED ONTO THE 4" PVC PIPE. PIPE TO BE BURIED A MINIMUM OF 6". PIPE TO EXTEND A MINIMUM OF 24" ABOVE GRADE.
 - THE CURB STOP HEADS ON THE CURB STOP BOXES SHALL INCLUDE INTEGRAL TERMINAL CONNECTIONS FOR THE TRACER WIRE ATTACHMENTS.
- PROVIDE THREE-SIDED RIGID INSULATION OVER WATER MAIN AT STORM SEWER CROSSINGS WHERE THERE IS TWO OR LESS FEET OF SEPARATION AT CROSSINGS.

- SEWER MANHOLES
 - FRAMES SHALL BE CENTERED ON THE TOP OF THE CONE. MH SHALL BE PRECAST WITH ECCENTRIC CONES PER CHAPTER 3.5.0 AND FILES 12, 12A, 13 AND 15. MANHOLES SHALL BE CONSTRUCTED WITH WATERPROOF FRAMES, LIDS, INTERNAL/EXTERNAL RUBBER SLEEVES, AND CHIMNEY SEALS. **NOTE: ALL SANITARY MANHOLE CASTINGS MUST BE LOCATED ALONG ROAD CENTERLINES. CONTRACTOR TO ROTATE CONES ACCORDINGLY WHEN MANHOLE CENTER IS NOT ALONG ROAD CENTERLINE (NOTED AS 1 ft R/L OF C/L ON PLANS).**
 - FLAT TOP SECTION MAY REPLACE CONE TOP WHEN FIELD CONDITIONS PROHIBIT USE OF CONE TOP AND/OR DUE TO DIAMETER OF STRUCTURE/VERTICAL RESTRICTIONS.
 - RISER PIPES:
 - 1'-4", 2'-8", 4'-0", AND 5'-4" LENGTHS AS REQUIRED
 - ADJUSTING RINGS:
 - RINGS SHALL BE CRETEX PRO-RINGS. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP. SEE DETAIL FOR MINIMUM AND MAXIMUM SPECIFICATIONS FOR EACH TYPE OF SEWER MANHOLE.
 - AREA OF CIRCUMFERENTIAL STEEL = 0.12 SQ. INCH PER LINEAL FOOT. CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 AND C-478-95 REQUIREMENTS OF ASTM SPECIFICATIONS.
 - SEE STANDARD SPECIFICATIONS, FILE No. 12 FOR PRECAST MANHOLE AND FILE No. 13 FOR MANHOLE INVERTS.
 - INSTALL 2 STRIPS OF 1" EZ-STIK BETWEEN ALL MH SECTIONS
 - MANHOLES SHALL HAVE 9" WIDE BARREL MACK WRAP AND INTERNAL/EXTERNAL CHIMNEY SEALS.
 - JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL RUBBER MASTIC MATERIAL.
 - 6" MIN. BEDDING MATERIAL REQ'D UNDER INTEGRAL PRECAST MANHOLE BASE WITH 6" MIN. OF GRANULAR BACKFILL MATERIAL PLACED AROUND THE OUTSIDE OF THE STRUCTURE.

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SANITARY SEWER

- SANITARY SEWER MAIN:
 - 8" SIZED SEWER SHALL MEET REQUIREMENTS OF ASTM D-3034, SDR-35. BOTH SHALL HAVE INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS MEETING REQUIREMENTS OF ASTM D-3212 USING CRUSHED CHIPS AND CLASS "B" BEDDING PER STANDARD SPECIFICATIONS. SDR-26 PIPE AND FITTINGS MUST BE USED FOR ENTIRE RUN IF ANY PORTION OF THE MAIN IS OVER 16 FEET DEEP.
- SANITARY SEWER LATERAL PIPE:
 - 6" - PVC SDR-35, WITH WYE CONNECTIONS.
- ALL SANITARY SEWERS SHALL BE VIDEOTAPED PRIOR TO ACCEPTANCE BY THE MUNICIPALITY.
- PIPES ENTERING OR LEAVING MANHOLES MUST BE GREATER THAN 5' IN LENGTH.
- ALL SANITARY SERVICE WYES TO BE INSTALLED 5' MINIMUM FROM THE OUTSIDE OF THE MANHOLE

STORM SEWER

- STORM SEWER PIPE:
 - CLASS V R.C.P. (12" DIA.), CLASS IV R.C.P. (15" DIA.), CLASS III R.C.P. (18" DIA. AND LARGER) WITH CLASS "C" BEDDING.
- STRUCTURES DEEPER THAN 4' (FLOW LINE TO SUMP) SHALL INCLUDE PLASTIC STEPS PER 3.5.4(G) OF STANDARD SPECIFICATIONS.
- SEWER STUBS TO BE BULKHEADED PER SEC. 3.2.25(A) OF STANDARD SPECIFICATIONS.
- INSTALL PIPE GRATES ON ALL STORM SEWER AND CULVERT END SECTIONS GREATER THAN 18". INSTALL RIP-RAP AT ALL STORM SEWER AND CULVERT DISCHARGE ENDS.
- ALL STORM SEWERS SHALL BE CLEANED AND VIDEOTAPED PRIOR TO ACCEPTANCE BY THE MUNICIPALITY. EVIDENCE OF SAID ACTIVITIES SHALL BE PROVIDED TO THE VILLAGE.
- MINIMUM PIPE LENGTH TO ALL ADJACENT STRUCTURES SHALL BE 5 FEET.
- JOINT TIES ARE REQUIRED FOR THE LAST 3 SECTIONS AND THE ENDWALL BEFORE OUTFALLS.

- EROSION CONTROL NOTES:**
- POST WDNR CERTIFICATE OF PERMIT COVERAGE ON-SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, AND THE SITE IS STABILIZED.
 - KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
 - SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
 - PERMIT HOLDER IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 1/2" OR GREATER. CORRECT ANY DAMAGED STRUCTURES IMMEDIATELY. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
 - WHEN POSSIBLE: PRESERVE EXISTING VEGETATION, MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
 - CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE "WDNR STORMWATER CONSTRUCTION AND POST-CONSTRUCTION TECHNICAL STANDARDS".
 - EROSION CONTROL MEASURES MAY NEED TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.
 - INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE AREA(S) SERVED HAVE 80% OR MORE ESTABLISHED VEGETATIVE COVER AS DETERMINED BY THE ENGINEER.
 - INSTALL PERIMETER EROSION CONTROLS AND TRACKING PAD(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD #1057 FOR CONSTRUCTION ENTRANCES(S).
 - SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED. SEPARATE SWEEP MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD #1068.
 - PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED OFF-SITE.
 - CONTRACTOR TO COORDINATE WITH MUNICIPALITY TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATION(S) FOR ANY EXCAVATED SOILS AND/OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).
 - INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREAS) AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD #1060.
 - STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD #1067.
 - COMPLETE AND STABILIZE SEDIMENT BASIN(S)/TRAP(S) OR WET PONDS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 528). CONSTRUCT AND MAINTAIN SEDIMENT BASIN(S)/TRAP(S) PER WDNR TECHNICAL STANDARD #1063.
 - INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE HALF OF THE CONTROL PRACTICE'S HEIGHT. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY.
 - INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD #1071.
 - ALL SIDE SLOPES 5:1 OR STEEPER SHALL BE RESTORED WITH CLASS I - TYPE 'A' EROSION MATTING, AND ALL AREAS OF CONCENTRATED FLOW SHALL BE RESTORED WITH CLASS II - TYPE 'B' CHANNEL MATTING. INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARDS #1052 AND #1053.
 - ALL SLOPES PROTECTED ONLY BY SILT FENCE MUST BE FULLY RESTORED WITHIN 30 DAYS OF DISTURBANCE.
 - STABILIZE ALL NON-ACTIVE STOCKPILES WITH TEMPORARY SEED & MULCH WITHIN 7 DAYS OF INACTIVITY AND/OR WITHIN 30 DAYS OF LAYUP. INSTALL SILT FENCING AROUND ALL DOWN SLOPE AND SIDE SLOPES OF TOPSOIL STOCKPILES. STOCKPILES NOT SHOWING ADEQUATE VEGETATION BY NOV 1 SHOULD BE DORMANT SEEDING AND COVERED WITH A WISDOT PAL. TYPE A SOIL STABILIZER (FOR SLOPES 3 FEET HORIZONTAL TO 1 FOOT VERTICAL) OR EROSION CONTROL MAT.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS OF INACTIVITY. THIS MAY BE DONE USING TEMPORARY AND/OR PERMANENT RESTORATION TECHNIQUES, DEPENDING ON PROGRESS OF GRADING ACTIVITIES OF THE AREAS). THIS INCLUDES AREAS OF SITE DEVELOPMENT AND UTILITY CONSTRUCTION.
 - SEDIMENT CONTROL FOR UTILITY CONSTRUCTION
 - PLACE EXCAVATED TRENCH MATERIAL ON HIGH SIDE OF THE TRENCH.
 - BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER UTILITY INSTALLATION.

WINTER/LATE SEASON STABILIZATION REQUIREMENTS:

- VEGETATED CHANNELS (ROADSIDE SWALES AND OTHER STORMWATER CONVEYANCES):
 ALL PLANNED VEGETATED CHANNELS SHALL BE STABILIZED WITH BMP'S (EROSION CONTROL MATTING, SOD, ETC.) BY NO LATER THAN NOVEMBER 15 IN ACCORDANCE WITH BNR TECHNICAL STANDARDS AND THE CRITERIA LISTED BELOW. DITCH CHECKS & SEDIMENT TRAPS AND OTHER SEDIMENT CONTROL BMP'S ARE ONLY FOR USE DURING CHANNEL GRADING WORK, AND MUST BE REPLACED WITH FINAL SITE STABILIZATION BMP'S PER THE APPROVED PLANS ASAP. NONE OF THESE ARE SUITABLE FOR CONTROLLING EROSION/SEDIMENTATION OF OPEN CHANNELS OVER WINTER.
- TIMING DETERMINES REQUIREMENTS AND BMP'S: THE STABILIZATION BMP'S THAT MUST BE IMPLEMENTED DEPEND ON THE TIMING OF THE SEEDING (COOL SEASON GRASSES), AND ARE ORGANIZED IN THREE RISK CATEGORIES, AS LISTED BELOW. THE LATER THE TIMING, THE LOWER THE SUCCESS RATES ARE FOR TIME VEGETATIVE COVER AND THEREFORE THE HIGHER THE RISKS OF EROSION AND OFF-SITE SEDIMENT DISCHARGES.
- RISK LEVEL 1: PERMANENT VEGETATION (BEFORE SEPTEMBER 15):** TO ENSURE SUCCESSFUL FALL SEED GERMINATION, TOPSOIL, SEED AND FERTILIZE ALL DISTURBED AREAS BY SEPTEMBER 15 IN ACCORDANCE WITH THE FOLLOWING:
 - SEEDING: PREPARE, SEED AND SOIL SEED PER THE SODS AND MIXES OF WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) ROADWAY STANDARD SECTION 630.
 - EROSION CONTROL: IMMEDIATELY APPLY MULCH, EROSION CONTROL MATTING, OR OTHER PERMANENT STABILIZATION BMP'S AS SPECIFIED IN THE APPROVED EROSION CONTROL PLANS. APPLICATION OF ALL EROSION CONTROL MEASURES SHALL FOLLOW BNR TECHNICAL STANDARDS.
 - MAINTENANCE: INSPECT ALL SEEDING AREAS WEEKLY. ENSURE ADEQUATE WATER IS PROVIDED UNTIL FULL VEGETATIVE COVER IS OBTAINED, AND REPAIR ANY EROSION PROBLEMS, WASH OUTS, ETC.
 - RISK LEVEL 2: TEMPORARY VEGETATION (BEFORE OCTOBER 15):** DUE TO THE COOLER SOIL TEMPERATURES AND THE LIKELIHOOD OF OVERNIGHT FROST CONDITIONS, PERENNIAL PLANT GROWTH IS SLOW AND SURVIVAL IS AT RISK FROM SEPTEMBER 15, OCTOBER 15, TO OFFER MORE PROTECTION FROM SOIL EROSION DURING THIS PERIOD, TOPSOIL, SEED AND FERTILIZE ALL DISTURBED AREAS BY OCTOBER 15 IN ACCORDANCE WITH THE FOLLOWING:
 - SEEDING: THE ABOVE NOTED SEEDING MIX MUST INCLUDE A MINIMUM OF 2 LBS. PER 1,000 SQ. FT. OF A TEMPORARY COVER (I.E. WINTER WHEAT OR ANNUAL RYE GRASS FOR FALL PLANTINGS) PER WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) ROADWAY STANDARD SECTION 630.
 - EROSION CONTROL: IMMEDIATELY APPLY MULCH, EROSION CONTROL MATTING, OR OTHER STABILIZATION BMP'S AS SPECIFIED IN THE APPROVED PLAN. FOLLOWING BNR TECHNICAL STANDARDS, THE FOLLOWING ARE MINIMUM REQUIREMENTS FOR STABILIZING SITES DURING THIS PERIOD. APPROVED PLANS MAY BE MORE RESTRICTIVE DUE TO SITE CONDITIONS.
 - CHANNEL FLOW (ROADSIDE SWALES, ETC.) AND BACKSLOPES: STAKE EROSION MATTING OVER ALL THE ENTIRE CHANNEL CROSS-SECTION AND ALL BACK SLOPES USING A MINIMUM WISDOT EROSION CONTROL PRODUCT ACCEPTABILITY (PAL) CLASS 3 TYPE A MATTING, UNLESS OTHERWISE CALLED FOR IN THE APPROVED PLAN.
 - OTHER DISTURBED AREAS: APPLY TYPE B SOIL STABILIZER, MULCH AND TACKIFIER FROM THE PAL TO ALL DISTURBED AREAS THAT REMAIN EXPOSED.
 - INFALLS/OUTFALLS: INSTALL 2 SOD ROLLS AT ALL CULVERT OUTFALLS, AND OTHER HIGH-EROSION LOCATIONS. (X&Y-4,6,45)
- MAINTENANCE: INSPECT ALL SEEDING AREAS WEEKLY. ENSURE ADEQUATE WATER IS PROVIDED UNTIL FULL TEMPORARY COVER IS OBTAINED, AND REPAIR ANY EROSION PROBLEMS, WASH OUTS, ETC.
 - RISK LEVEL 3: DORMANT SEEDING (BEFORE NOVEMBER 15): FOR AREAS NOT STABILIZED BY OCTOBER 15, EROSION RISKS ARE HIGH AND ADDITIONAL EROSION CONTROL MEASURES AND OVERSIGHT ARE REQUIRED, AS DESCRIBED BELOW. TEMPORARY SEEDING MUST STILL BE DONE, BUT FALL GERMINATION AND SURVIVAL MAY BE VERY LIMITED. FOR PERENNIAL PLANTS, DORMANT SEEDING SHOULD BE DONE BETWEEN OCTOBER 20 AND NOVEMBER 15. THIS MEANS SEED GERMINATION IS PLANNED FOR THE FOLLOWING SPRING. TO OFFER MORE PROTECTION FROM SOIL EROSION DURING THIS PERIOD, TOPSOIL, SEED AND FERTILIZE ALL DISTURBED AREAS BY NOVEMBER 15 IN ACCORDANCE WITH THE FOLLOWING:
 - SEEDING RATE: SAME SEED MIX AS RISK LEVEL 2 (INCLUDING TEMPORARY COVER CROP) EXCEPT THE RATES FOR PERENNIAL SPECIES MUST APPLIED AT 1.5 X WISDOT SECTION 630 RATES (APPLY RATES OF 3-5 LBS./1000 SQ.FT.). RATES ARE INCREASED TO ALLOW FOR POOR GERMINATION RATES ASSOCIATED WITH DORMANT SEEDING DUE TO FROZEN CONDITIONS.
 - EROSION CONTROL: IN ADDITION TO APPLYING TOPSOIL, THE ABOVE NOTED SEED MIX AND STARTER FERTILIZER, THE FOLLOWING ARE MINIMUM REQUIREMENTS FOR STABILIZING SITES DURING THIS PERIOD. APPROVED EROSION CONTROL PLANS MAY BE MORE RESTRICTIVE:
 - CHANNEL FLOW (ROADSIDE SWALES, ETC.) AND BACKSLOPES: APPLY TYPE A SOIL STABILIZER AND STAKED PAL CLASS 3 TYPE A EROSION MATTING OVER THE ENTIRE CHANNEL AND ALL BACKSLOPES.
 - OTHER AREAS: APPLY TYPE A SOIL STABILIZER FROM THE PAL TO ALL OTHER DISTURBED AREAS THAT REMAIN EXPOSED.
 - INFALLS/OUTFALLS: INSTALL 2 SOD ROLLS AT ALL CULVERT OUTFALLS, AND OTHER HIGH-EROSION LOCATIONS.
 - MAINTENANCE: INSPECT ALL SEEDING AREAS WEEKLY. ENSURE ADEQUATE WATER IS PROVIDED UNTIL FULL TEMPORARY COVER IS OBTAINED, AND REPAIR ANY EROSION PROBLEMS, WASH OUTS, ETC.
 - REPORTS: THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR EMAILING A REPORT TO THE LRD BY 4:30 PM EVERY WEDNESDAY AFTER OCTOBER 15, WHICH SHALL INCLUDE THE FOLLOWING INFORMATION:
 - DETAILED STATUS OF ALL LAND DISTURBING AND STABILIZATION ACTIVITIES AS OF THE DAY OF THE REPORT.
 - RESULTS OF EROSION CONTROL SITE INSPECTIONS SINCE OCTOBER 15 OR THE PREVIOUS REPORT, WHICHEVER IS SHORTER.
 - ANY EROSION CONTROL FAILURES ENCOUNTERED AND ACTIONS TAKEN TO RECTIFY.
 - PREDICTIONS FOR COMPLETION OF ALL STABILIZATION ACTIVITIES, INCLUDING A 10-DAY PLAN BASED ON THE LATEST WEATHER PREDICTIONS.

CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE WISCONSIN DNR'S STORM WATER CONSTRUCTION AND POST-CONSTRUCTION TECHNICAL STANDARDS.

ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE MONITORED DAILY FOR STABILITY AND OPERATION AND REPORTED AT LEAST ONCE PER WEEK AND FOLLOWING EVERY 0.5" RAINFALL.

DUST CONTROL TO FOLLOW WDNR T.S. 1068

ALL RESTORATION TO BE IN ACCORDANCE WITH WDNR'S CONSERVATION PRACTICE STD 1059. CUT AND FILL SLOPES WILL BE 3:1 OR FLATTER OUTSIDE ROAD RIGHT OF WAY & 4:1 FLATTER WITHIN ROAD RIGHT OF WAY.

RESTORATION AREAS TO BE TOP SOILED (6" MIN), (IF GRADED), SEED, FERTILIZED, AND MULCHED UNLESS OTHERWISE NOTED. ON SLOPES 4:1 OR STEEPER CLASS I TYPE B (WISDOT PAL) EROSION MAT REQUIRED. (SEE EROSION CONTROL PLAN FOR OTHER EMATING REQUIREMENTS) (UNLESS OTHERWISE NOTED ON PLANS)

IF THE SITE OR PORTIONS OF THE SITE ARE TO REMAIN INACTIVE FOR GREATER THAN 7 DAYS TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING OR MULCHING SHALL BE TAKEN WITHIN 7 DAYS FROM THE SITE BEING LEFT INACTIVE.

SEE RESTORATION PLAN FOR SEED TYPES.

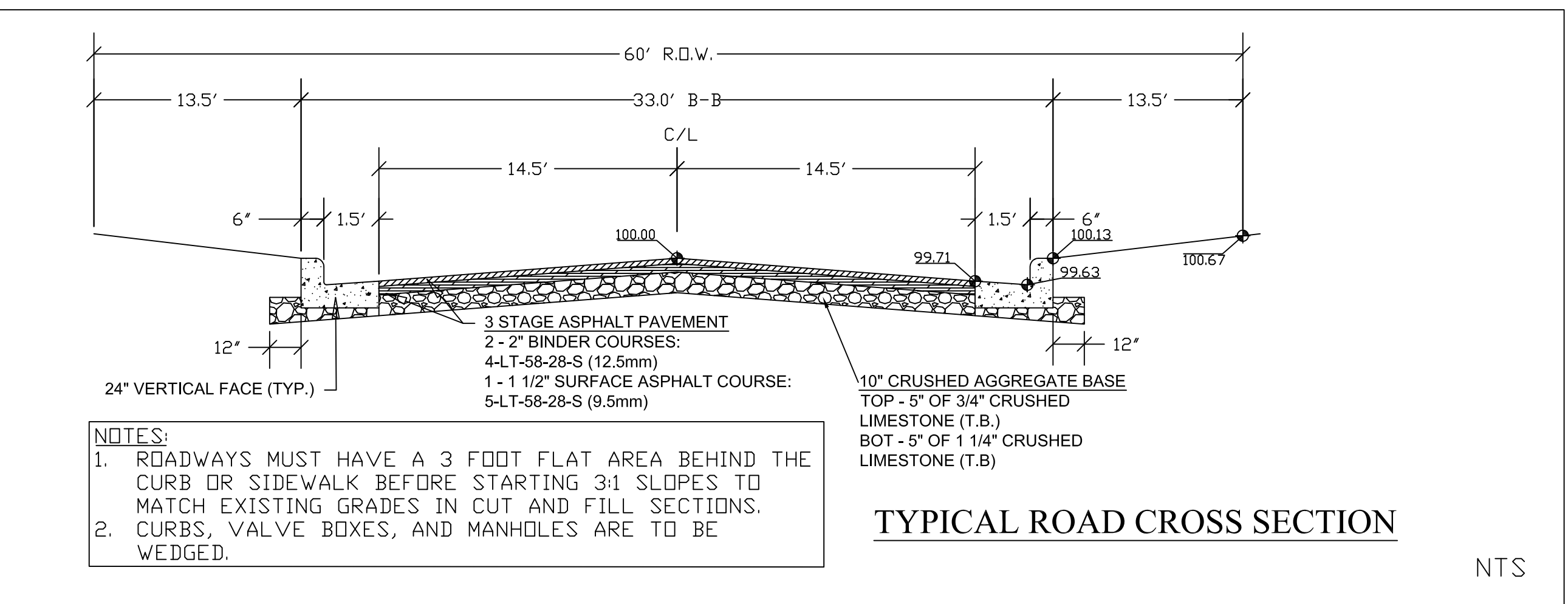
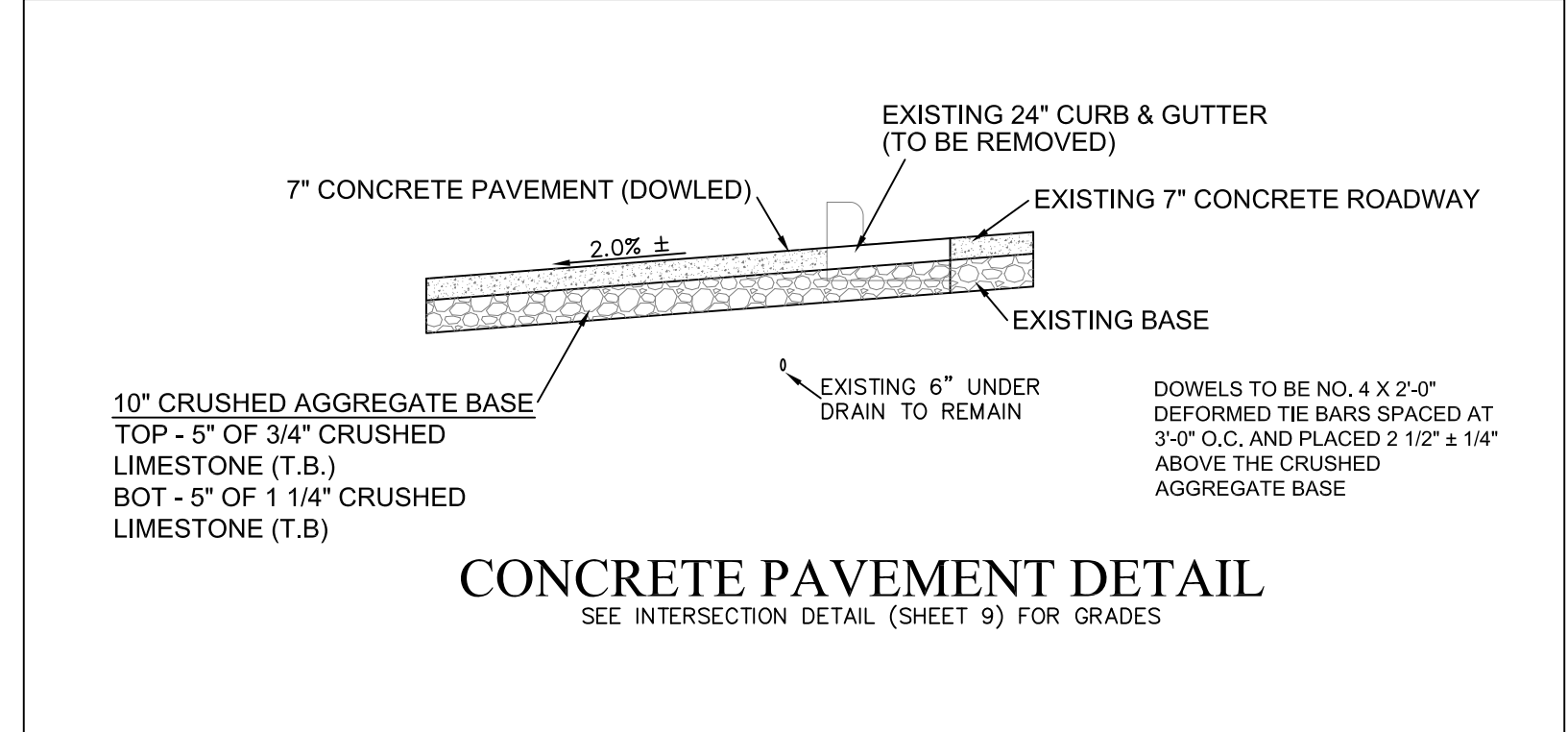
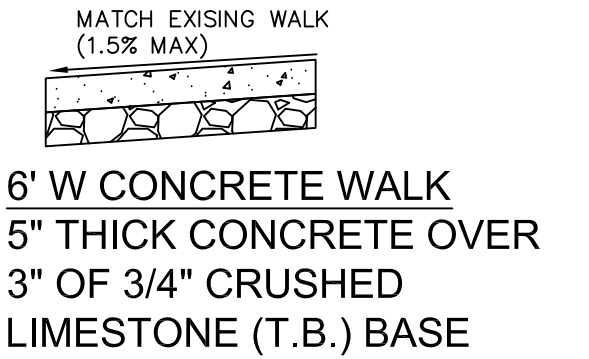
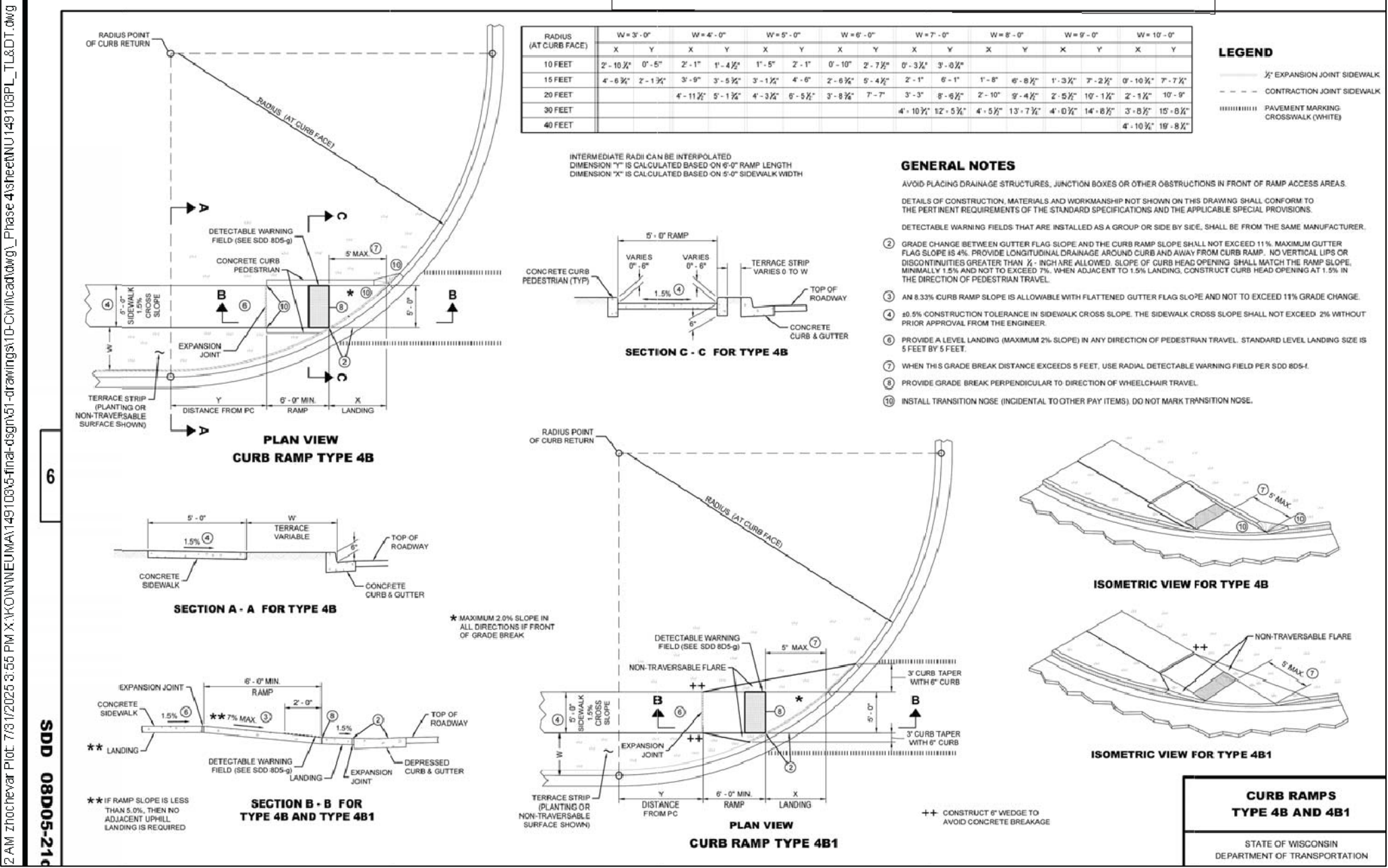
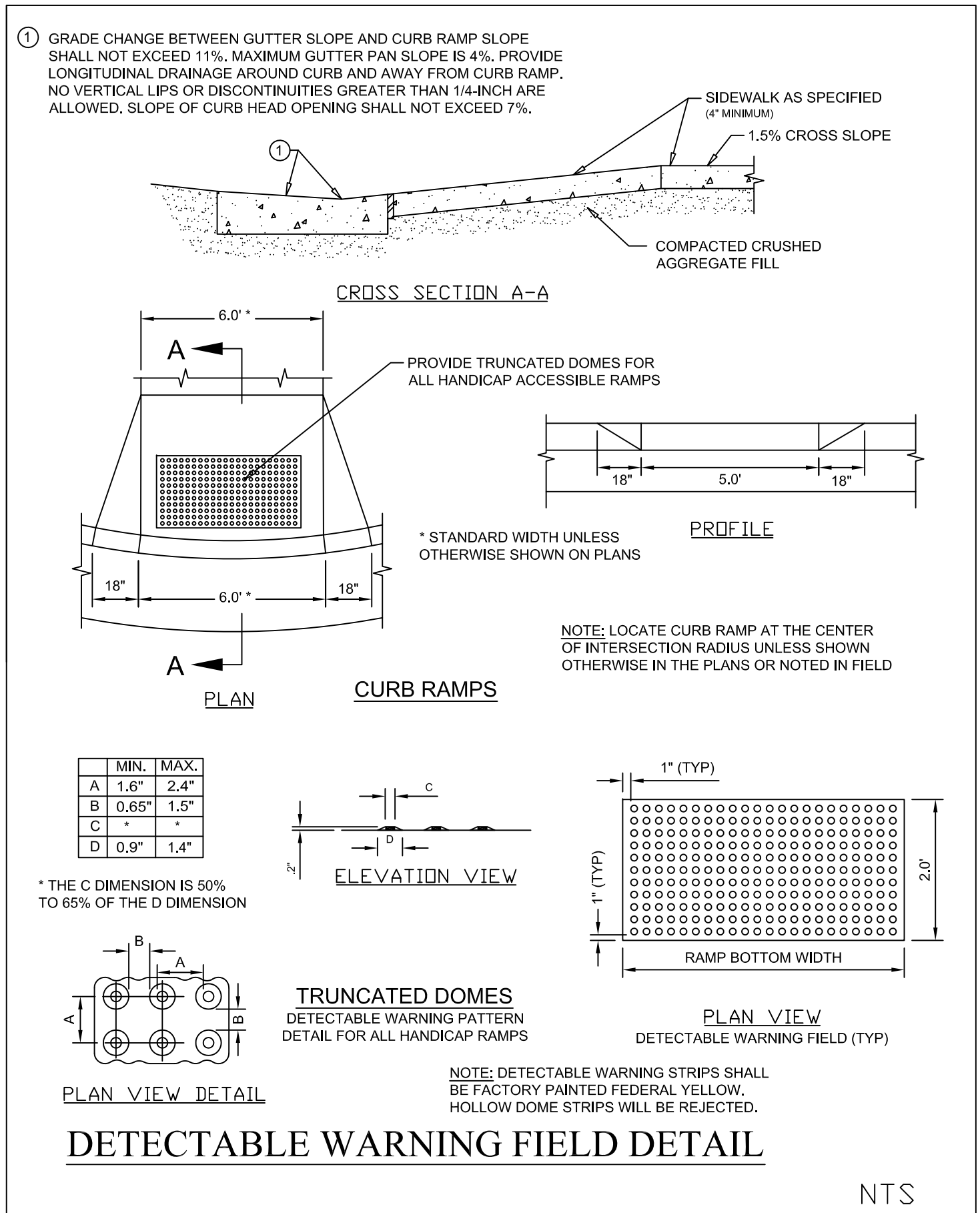
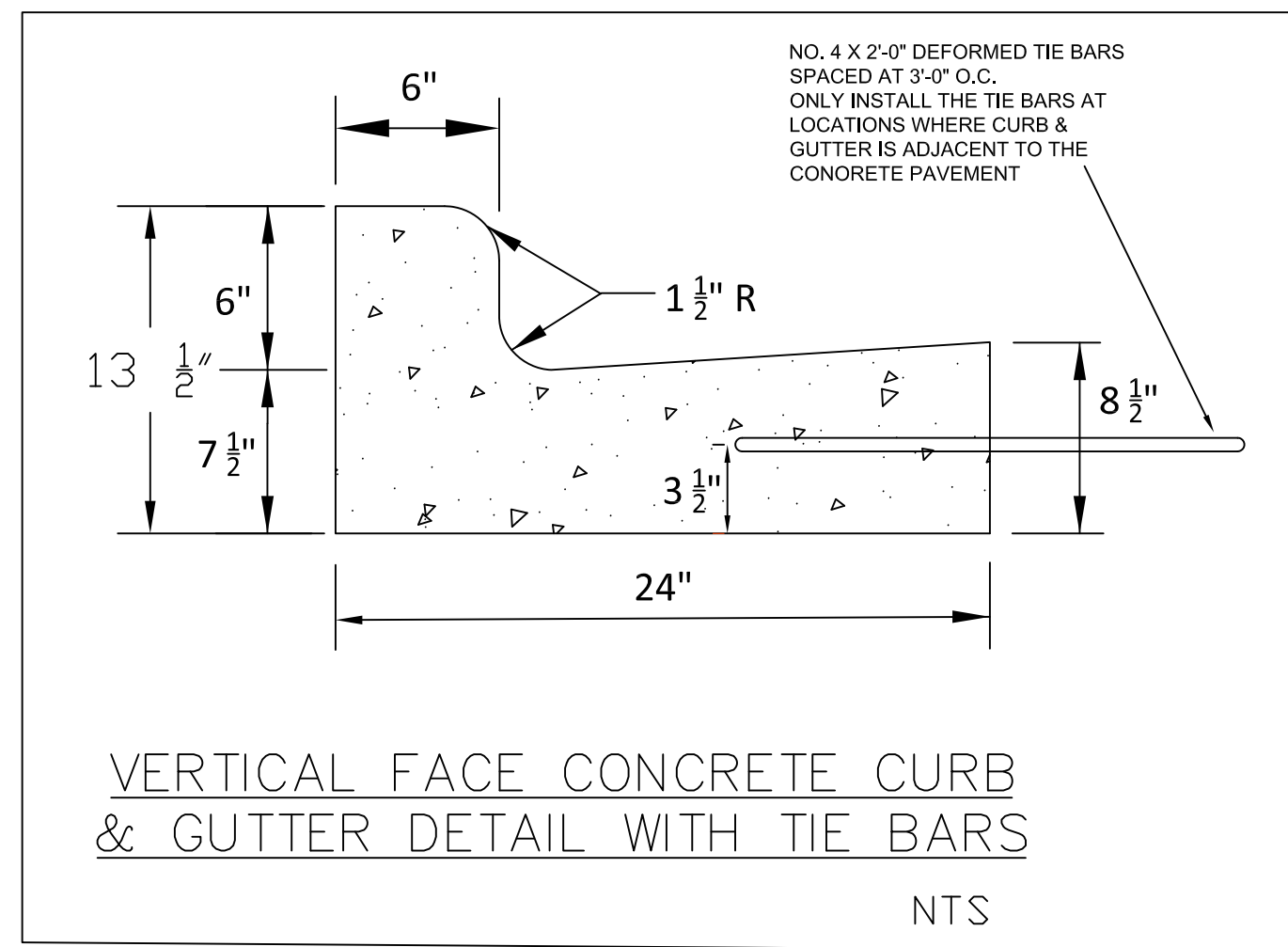
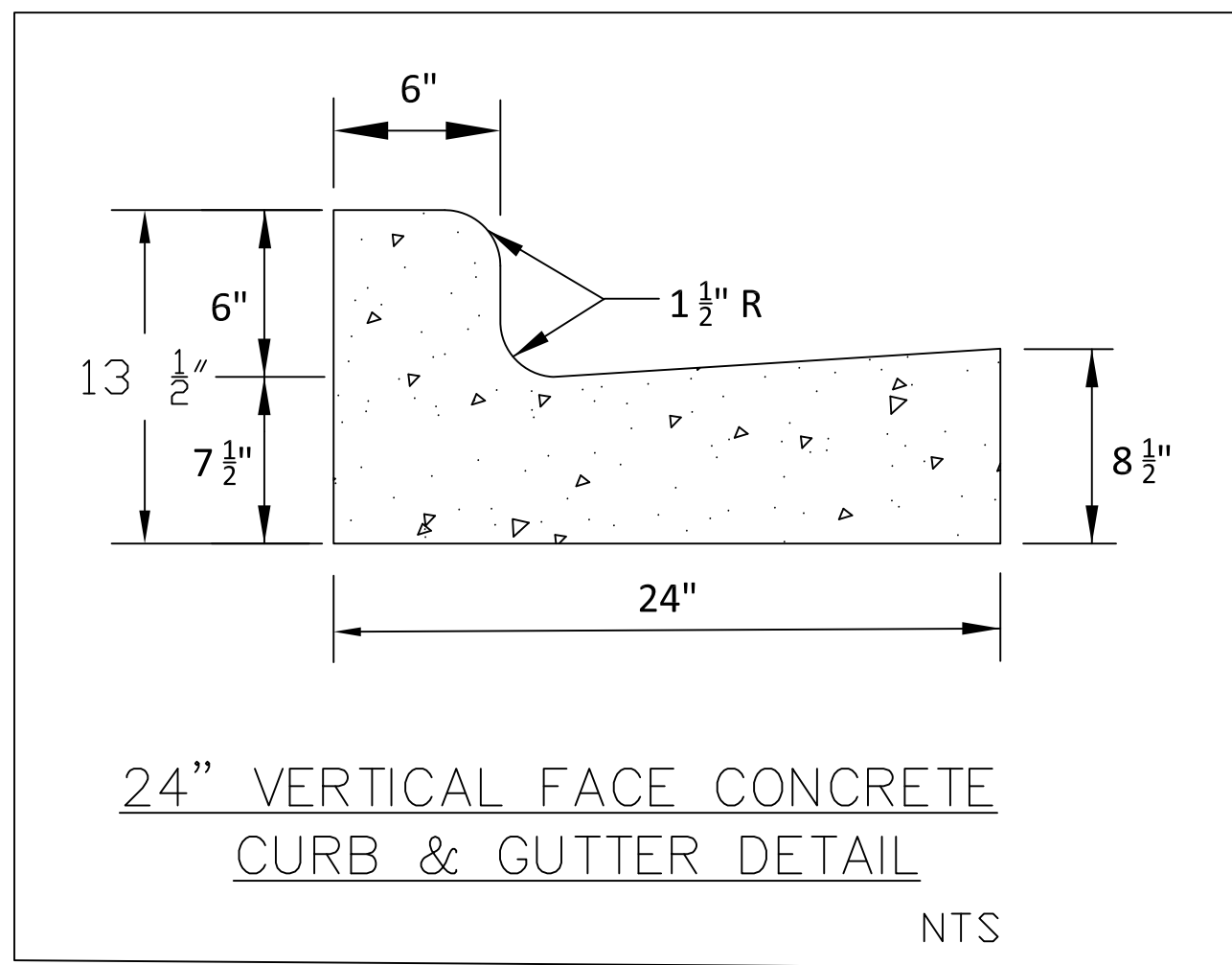
CONTRACTOR TO FOLLOW STANDARD PROCEDURES FOR SPILL PREVENTION AND RESPONSE

ALL UTILITIES TO BE INSTALLED PER THE STANDARD SPECIFICATIONS FOR SEWER AND WATER IN WISCONSIN LATEST ADDITION AND ADDENDUM'S, AND VILLAGE OF SUSSEX DEVELOPMENT REQUIREMENTS

GRADING AND PAVING PER STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION LATEST EDITION, AND VILLAGE OF SUSSEX DEVELOPMENT REQUIREMENTS

PROOF-ROLLING SHALL BE COMPLETED PRIOR TO PLACING BASE COURSE AND PRIOR TO PAVING

REMARKS	REVISION DATE	SCALE: DATE	DATE: APRIL 23, 2026
	CREATED BY: B.O.	CHECKED BY: C.DAVY	
Lake Country Engineering, Inc. Consulting Engineers - Surveyors P.O. BOX 144 Oconomowoc, WI 53066 Phone (262) 569-5671			
APPROVED FOR CONSTRUCTION CONSTRUCTION NOTES MAPLE WOODS ESTATES MAGNUM EXCAVATING LLC. SE 1/4 S15, T8N, R19E, VO SUSSEX, WAUKESHA CO., WI			
PROJ. #		25-3553	
SHEET #		2 OF 10	



APPROVED FOR CONSTRUCTION

STORM SEWER AND ROAD DETAILS
MAPLE WOODS ESTATES
MAGNUM EXCAVATING LLC.
SE 1/4 S15, T8N, R19E, VO SUSSEX, WAUKESHA CO. WI

PROJ. #
25-3553

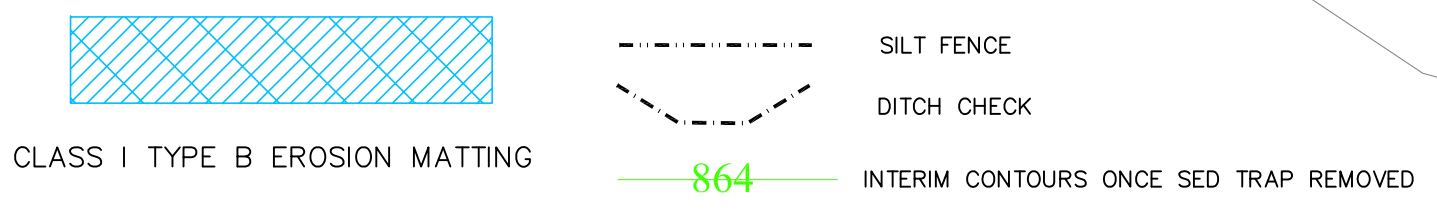
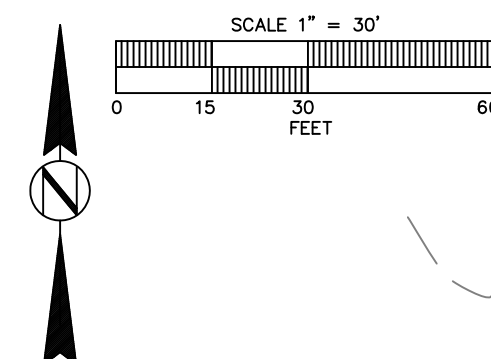
SHEET #
4 OF 10

LAKE COUNTRY ENGINEERING, INC.
Consulting Engineers - Surveyors
P.O. BOX 144 Oconomowoc, WI 53066
Phone (262) 569-5631

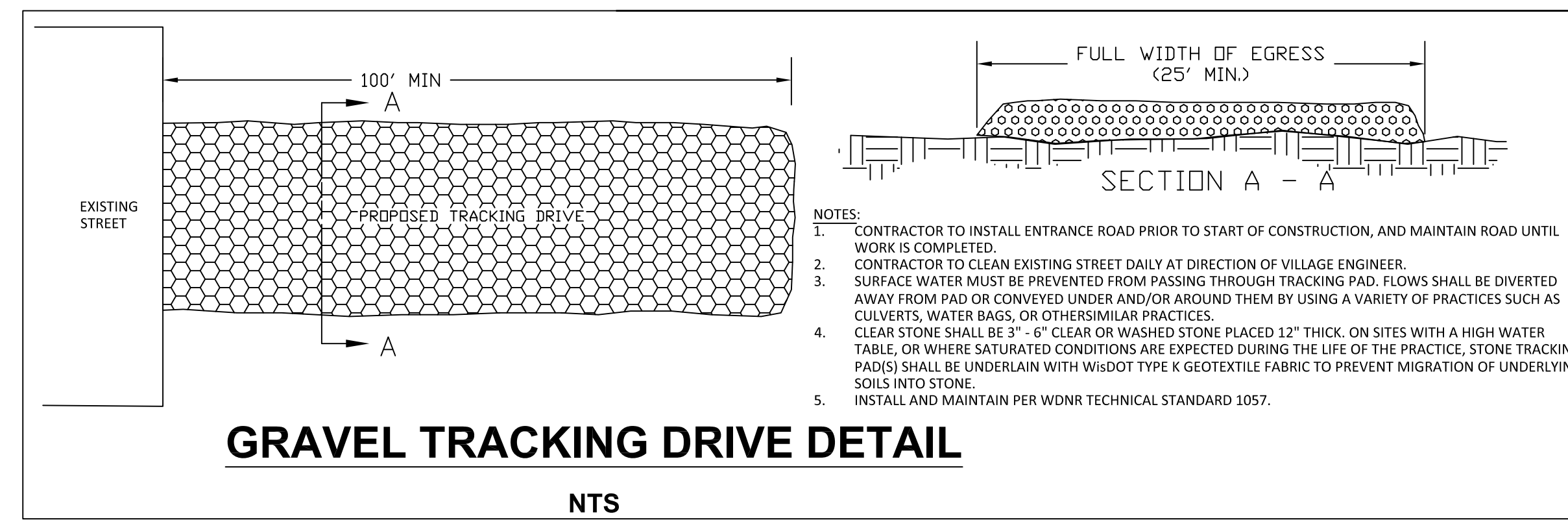
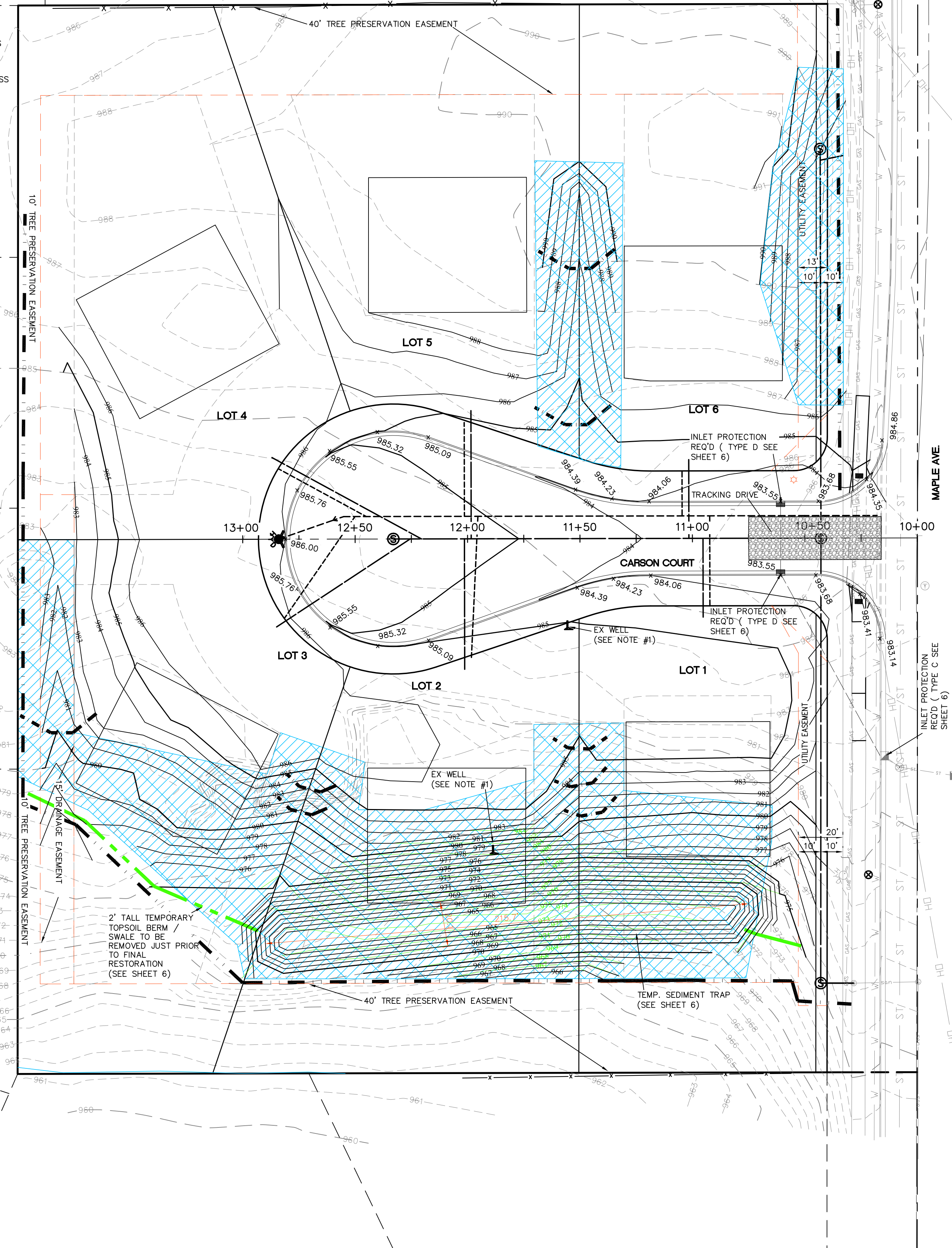
REVISION DATE

SCALE: NTS
DRAWN BY: B.O.
CHECKED BY: E.D.A.V.
DATE: APRIL 23, 2026

REMARKS



SEED MIX TO BE LANDSCAPE 40 OR APPROVED EQUAL)
 68% NAMED KENTUCKY BLUEGRASS
 28% KENTUCKY BLUEGRASS
 20% ANNUAL RYE GRASS
 25% CREEPING RED FESCUE
 15% WICKED PERENNIAL RYE GRASS
 TO BE APPLIED AT A RATE OF 200-250 LBS ACRE

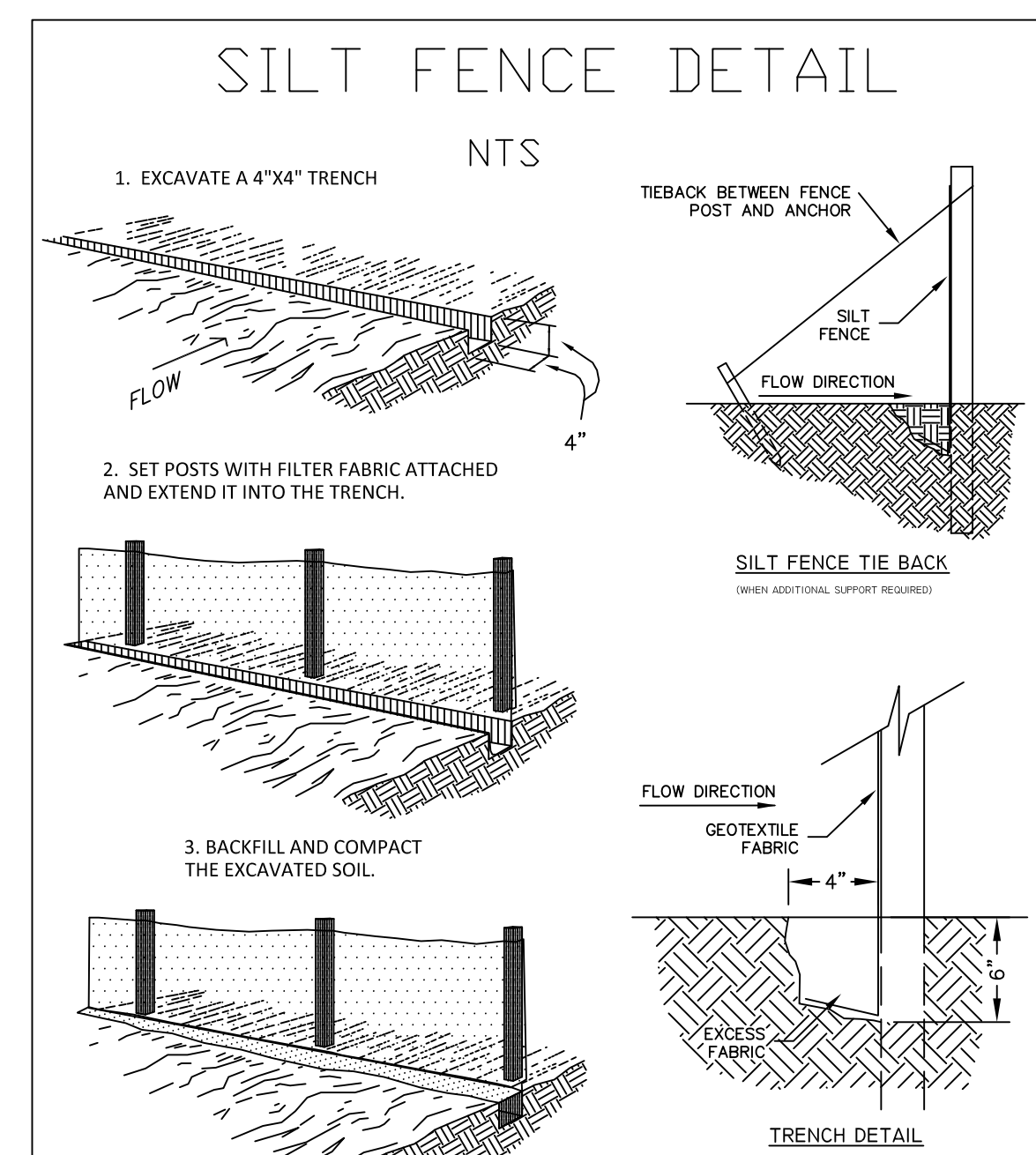


GRAVEL TRACKING DRIVE DETAIL

NTS

- NOTES:
- CONTRACTOR TO INSTALL ENTRANCE ROAD PRIOR TO START OF CONSTRUCTION, AND MAINTAIN ROAD UNTIL WORK IS COMPLETED.
 - CONTRACTOR TO CLEAN EXISTING STREET DAILY AT DIRECTION OF VILLAGE ENGINEER.
 - SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY FROM PAD OR CONVEYED UNDER AND/OR AROUND THEM BY USING A VARIETY OF PRACTICES SUCH AS CULVERTS, WATER BAGS, OR OTHER SIMILAR PRACTICES.
 - CLEAR STONE SHALL BE 3" - 6" CLEAR OR WASHED STONE PLACED 12" THICK. ON SITES WITH A HIGH WATER TABLE, OR WHERE SATURATED CONDITIONS ARE EXPECTED DURING THE LIFE OF THE PRACTICE, STONE TRACKING PAD(S) SHALL BE UNDERLAIN WITH WISDOT TYPE K GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNDERLYING SOILS INTO STONE.
 - INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD 1057.

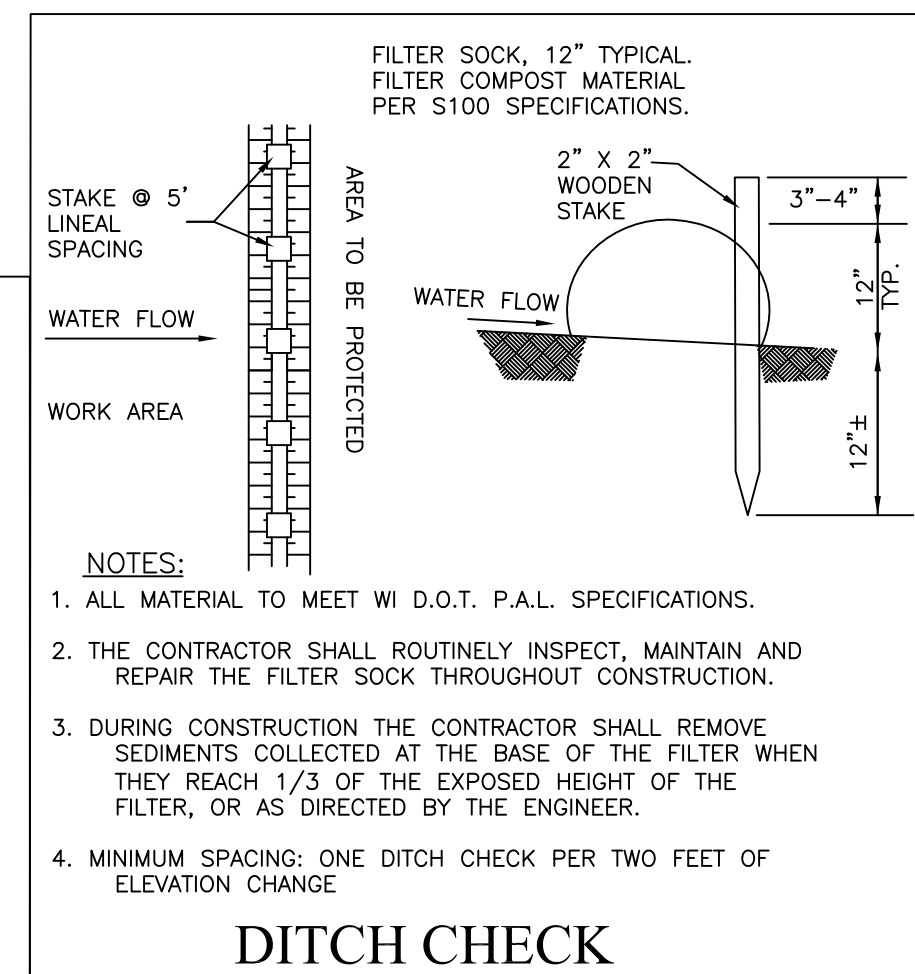
- NOTE #1) ABANDON WELL PER DNR REQUIREMENTS OF NR. 108, NR 810M, NR 811 AND NR 820. PROVIDE VILLAGE WITH EXECUTED WELL ABANDONMENT FORMS, INCLUDING WELL FILLING AND SEALING REPORT (DNR FORM # 3300-005). ADDITIONALLY CUT OFF THE EXISTING STEEL CASINGS A MINIMUM OF TEN (10) BELOW GRADE.
- NOTE #2) IF SEPTIC SYSTEM IS ENCOUNTERED WHILE GRADING ABANDON PER STATE CODE AND DNR REQUIREMENTS. PROVIDE VILLAGE WITH EXECUTED CORRESPONDING ABANDONMENT DOCUMENTS



SILT FENCE DETAIL

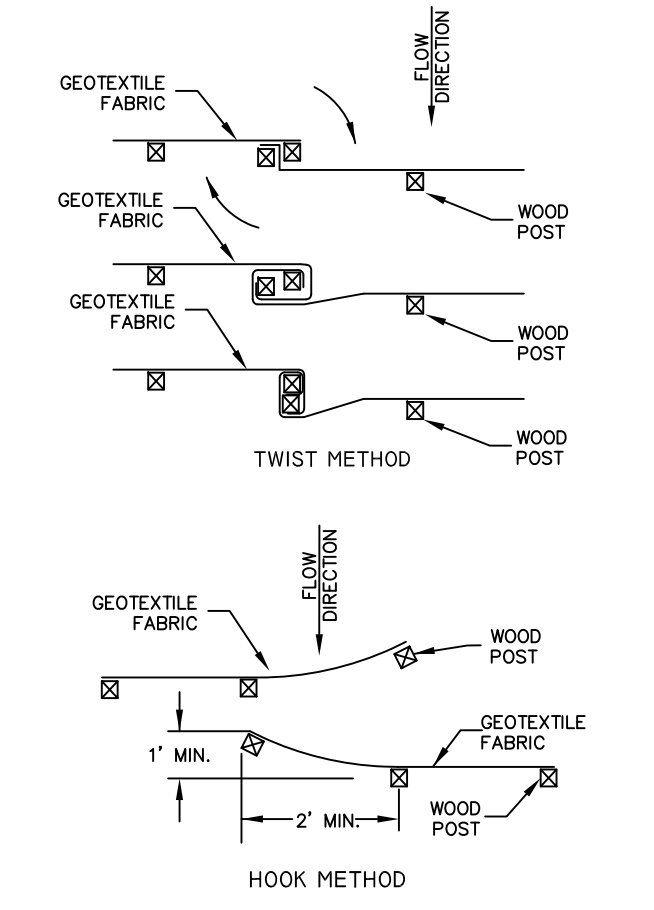
NTS

- GENERAL NOTES
- INSTALL AND MAINTAIN PER DNR TECHNICAL STANDARD 1056
 - TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
 - WOOD POST SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING TWO METHODS:
 A) TWIST METHOD -- OVERLAP THE END POST AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, OR
 B) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH. HORIZONTAL BRACE REQUIRED WITH A 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
 - SILT FENCE TO EXTEND ACROSS THE TOP OF PIPE.



DITCH CHECK

- NOTES:
- ALL MATERIAL TO MEET WI D.O.T. P.A.L. SPECIFICATIONS.
 - THE CONTRACTOR SHALL ROUTINELY INSPECT, MAINTAIN AND REPAIR THE FILTER SOCK THROUGHOUT CONSTRUCTION.
 - DURING CONSTRUCTION THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE FILTER, OR AS DIRECTED BY THE ENGINEER.
 - MINIMUM SPACING: ONE DITCH CHECK PER TWO FEET OF ELEVATION CHANGE



JOINING TWO LENGTHS OF SILT FENCE



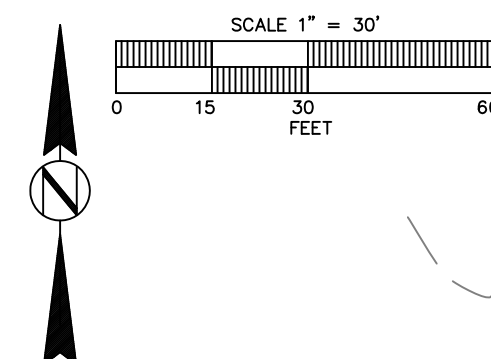
APPROVED FOR CONSTRUCTION

RESTORATION AND EROSION CONTROL PLAN
 MAPLE WOODS ESTATES
 MAGNUM EXCAVATING LLC.
 SE 1/4 S15, T8N, R19E, V0 SUSSEX, WAUKESHA CO. WI

PROJ. #
 25-3553
 SHEET #
 5 OF 10

Lake Country Engineering, Inc.
 Consulting Engineers - Surveyors
 P.O. BOX 144 Oconomowoc, WI 53086
 Phone (262) 569-3631

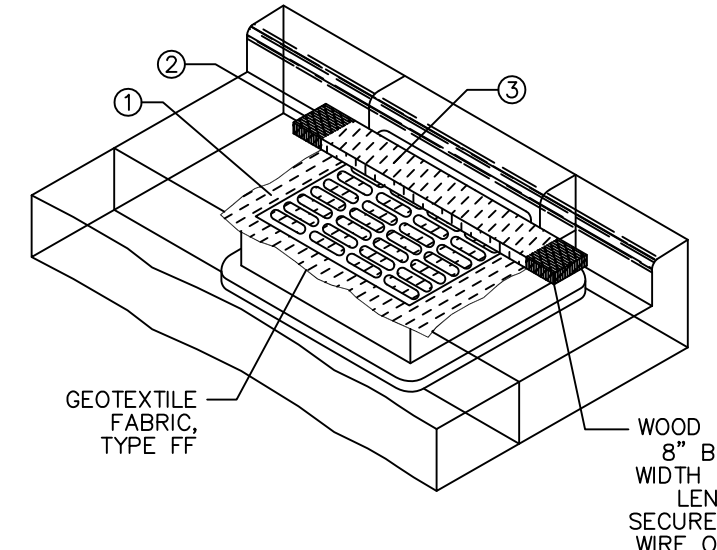
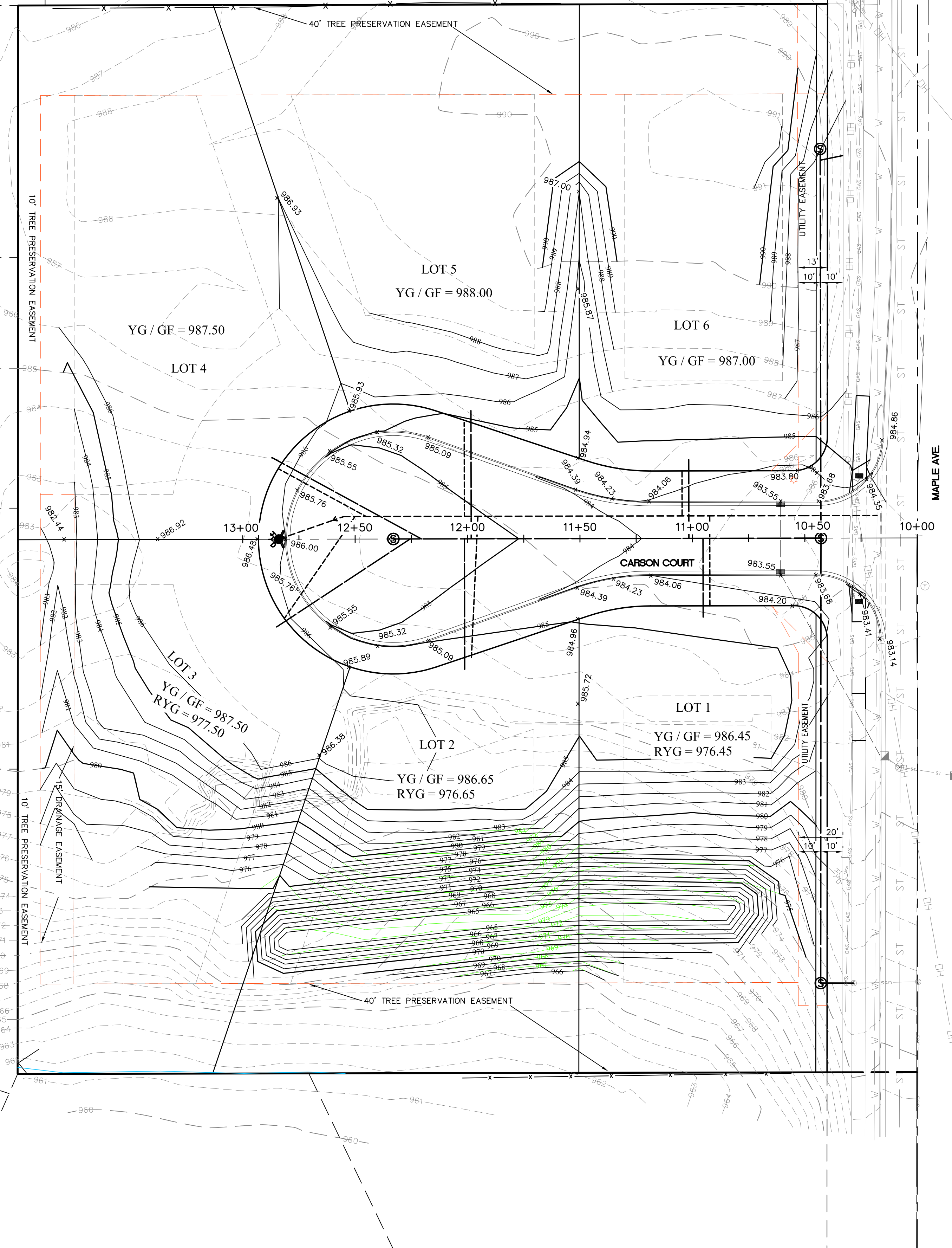
REVISION DATE	REVISION	REMARKS
SCALE: 1" = 30'	DATE: APRIL 23, 2026	
DRAWN BY: E.D.A.V.	CHECKED BY: E.D.A.V.	



LEGEND

- - - 864 - - -	EXISTING 1' CONTOURS	- - - 864 - - -	EXISTING 5' CONTOURS	- - - 864 - - -	EXISTING SPOT GRADES
- - - 865 - - -	EXISTING 5' CONTOURS	- - - 864 - - -	FUTURE 1' CONTOURS	- - - 865 - - -	PROPOSED SPOT GRADES
- - - 864 - - -	FUTURE 1' CONTOURS	- - - 865 - - -	FUTURE 5' CONTOURS	- - - 864.66 - - -	PROPOSED SPOT GRADES
- - - 865 - - -	FUTURE 5' CONTOURS	- - - 864.66 - - -	EXISTING SPOT GRADES	- - - 864.66 - - -	PROPOSED SPOT GRADES

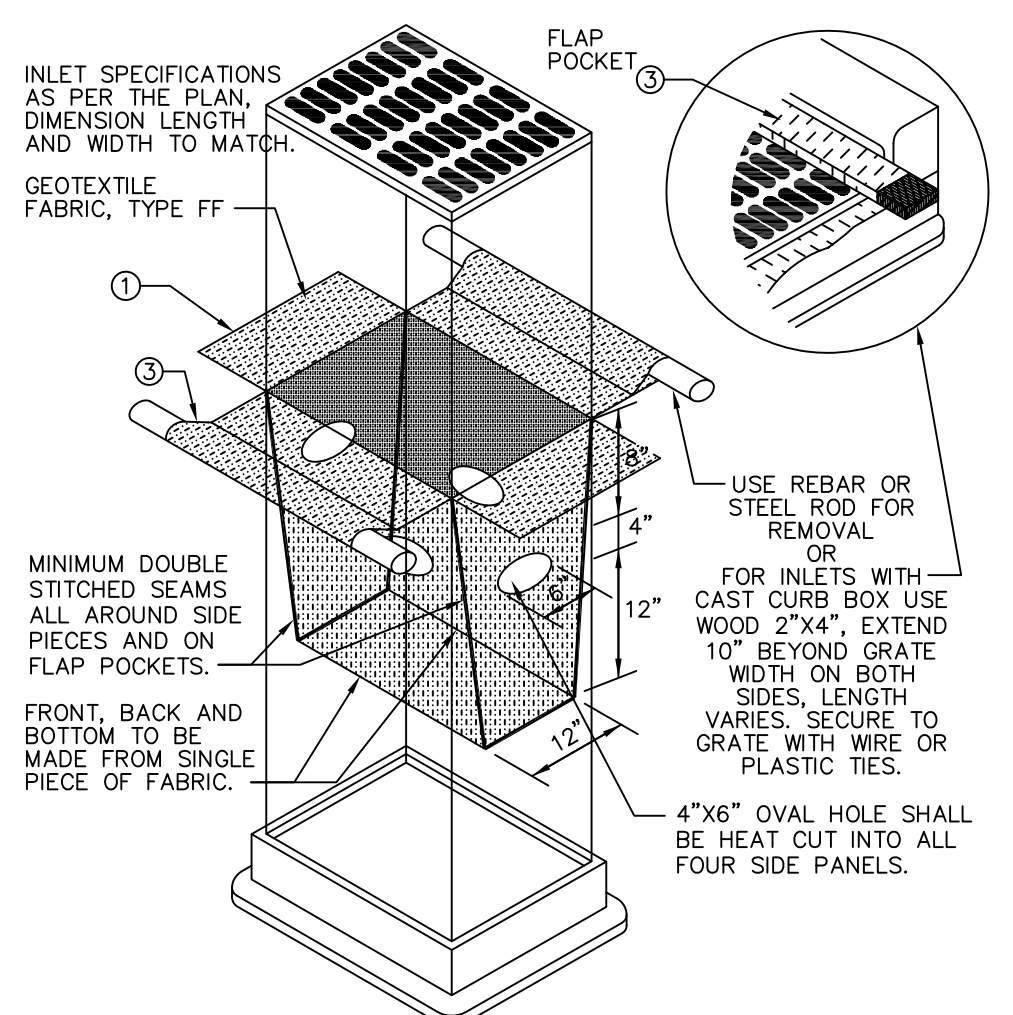
PROPOSED EASEMENT SEE PLAT
 INTERIM CONTOURS ONCE SED TRAP REMOVED



INLET PROTECTION - TYPE C
 (WITH CURB BOX) N.T.S.
 THIS DRAWING BASED ON W.I.D.O.T. STANDARD DETAIL DRAWING 8 E 10-2

GENERAL NOTES
 MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE W.I.D.O.T.'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST (P.A.L.) MAY BE SUBSTITUTED.
 WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
 ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
 ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
 FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

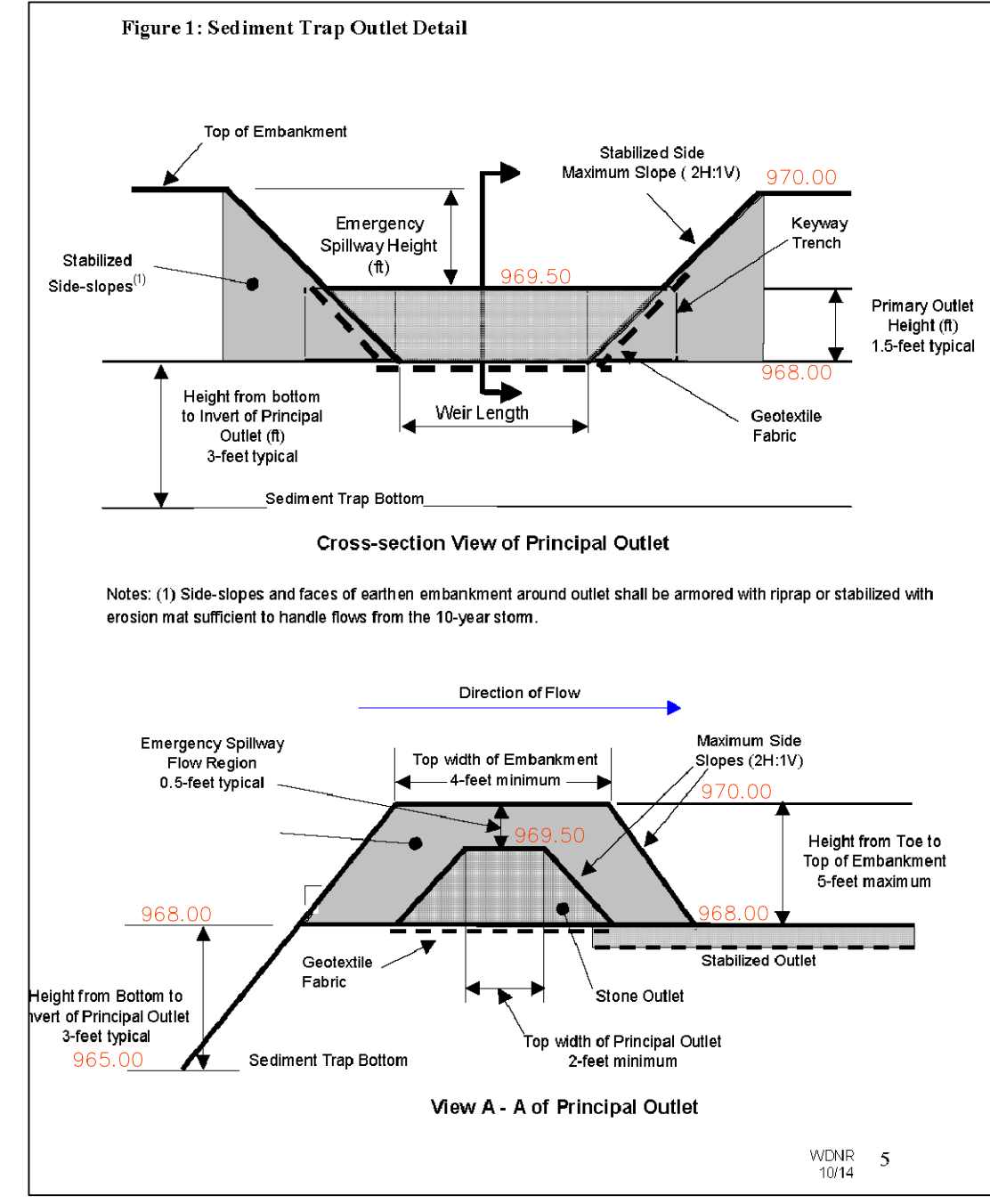
INSTALLATION NOTES - TYPE C
 TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEW FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.



INLET PROTECTION - TYPE D
 (CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE #2)
 THIS DRAWING BASED ON W.I.D.O.T. STANDARD DETAIL DRAWING 8 E 10-2

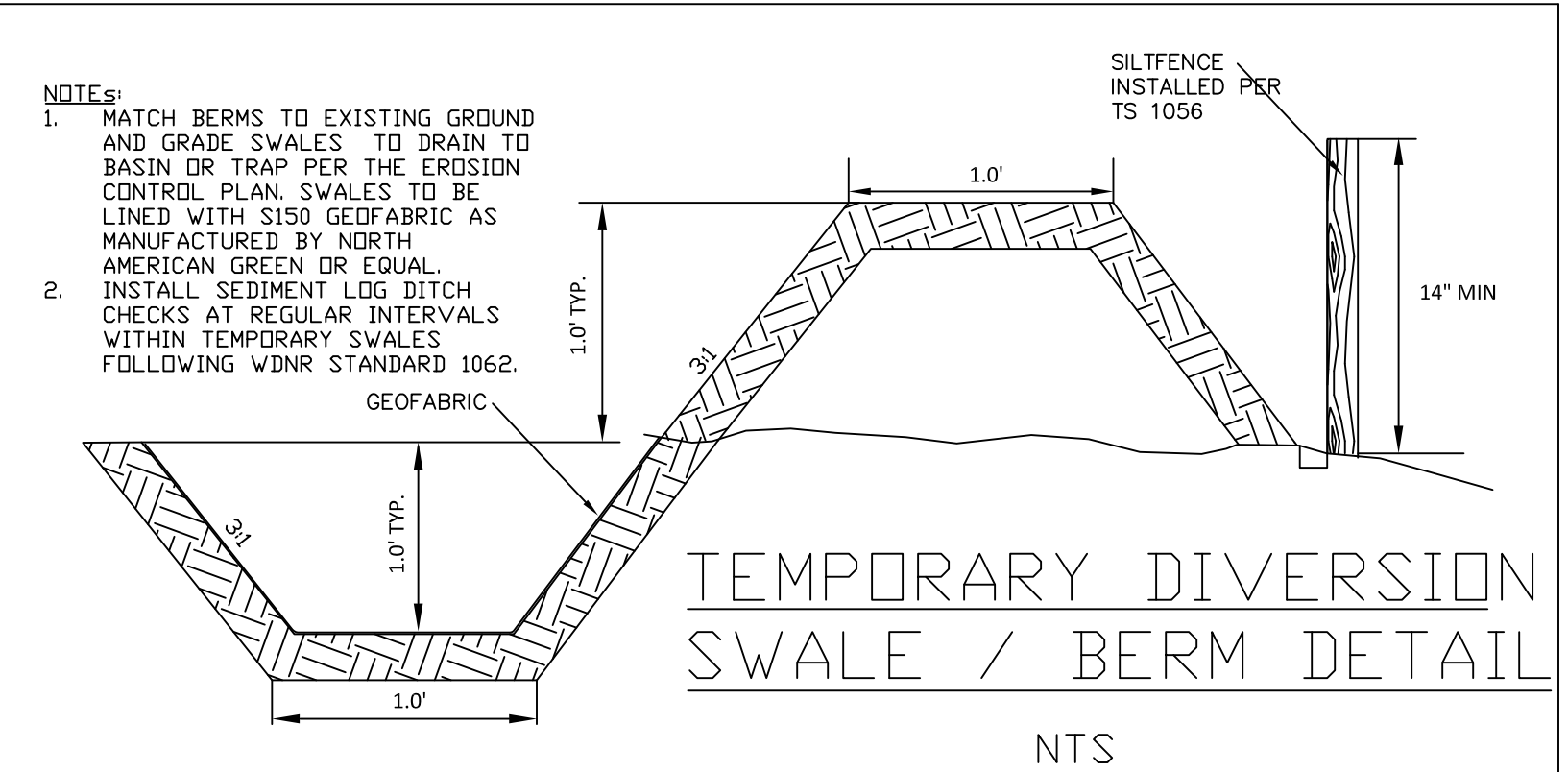
GENERAL NOTES
 MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE W.I.D.O.T.'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST (P.A.L.) MAY BE SUBSTITUTED.
 WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
 ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
 ② FOR INLET PROTECTION, TYPE D (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
 ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2X4.

INSTALLATION NOTES - TYPE D
 DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
 TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
 THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



SEDIMENT TRAP DETAIL
 WDNR TS 1063 NTS

DRAINAGE AREA	2.75 AC
MINIMUM AREA (AREA SHOWN)	4,300 SF
APPROX. DIMENSIONS SHOWN	215' X 20'
TOP OF EMBANKMENT	970.0
BOTTOM OF EMBANKMENT	968.0
SEDIMENT TRAP BOTTOM	965.0
EMERGENCY SPILLWAY ELEVATION	969.50
PRIMARY OUTLET ELEVATION	968.0
EMERGENCY SPILLWAY HEIGHT	0.5'
PRIMARY OUTLET HEIGHT	1.5'
WEIR LENGTH	8.0'
EMBANKMENT TOP WIDTH	4.0'
PRINCIPAL OUTLET WIDTH	2.0'



TEMPORARY DIVERSION SWALE / BERM DETAIL
 NTS



APPROVED FOR CONSTRUCTION

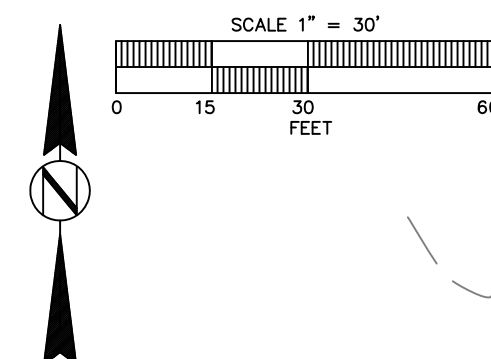
LAKE COUNTRY ENGINEERING, INC.
 Consulting Engineers - Surveyors
 P.O. BOX 144 Oconomowoc, WI 53065
 Phone (262) 569-3631

REVISION DATE	REVISION	REMARKS

SCALE: 1" = 30'
 DRAWN BY: G.D.
 CHECKED BY: E.DAVY
 DATE: APRIL 23, 2026

PROJECT: INTERIM GRADING PLAN
 MAPLE WOODS ESTATES
 MAGNUM EXCAVATING LLC.
 SE 1/4 S15, T8N, R19E, V0 SUSSEX, WAUKESHA CO. WI

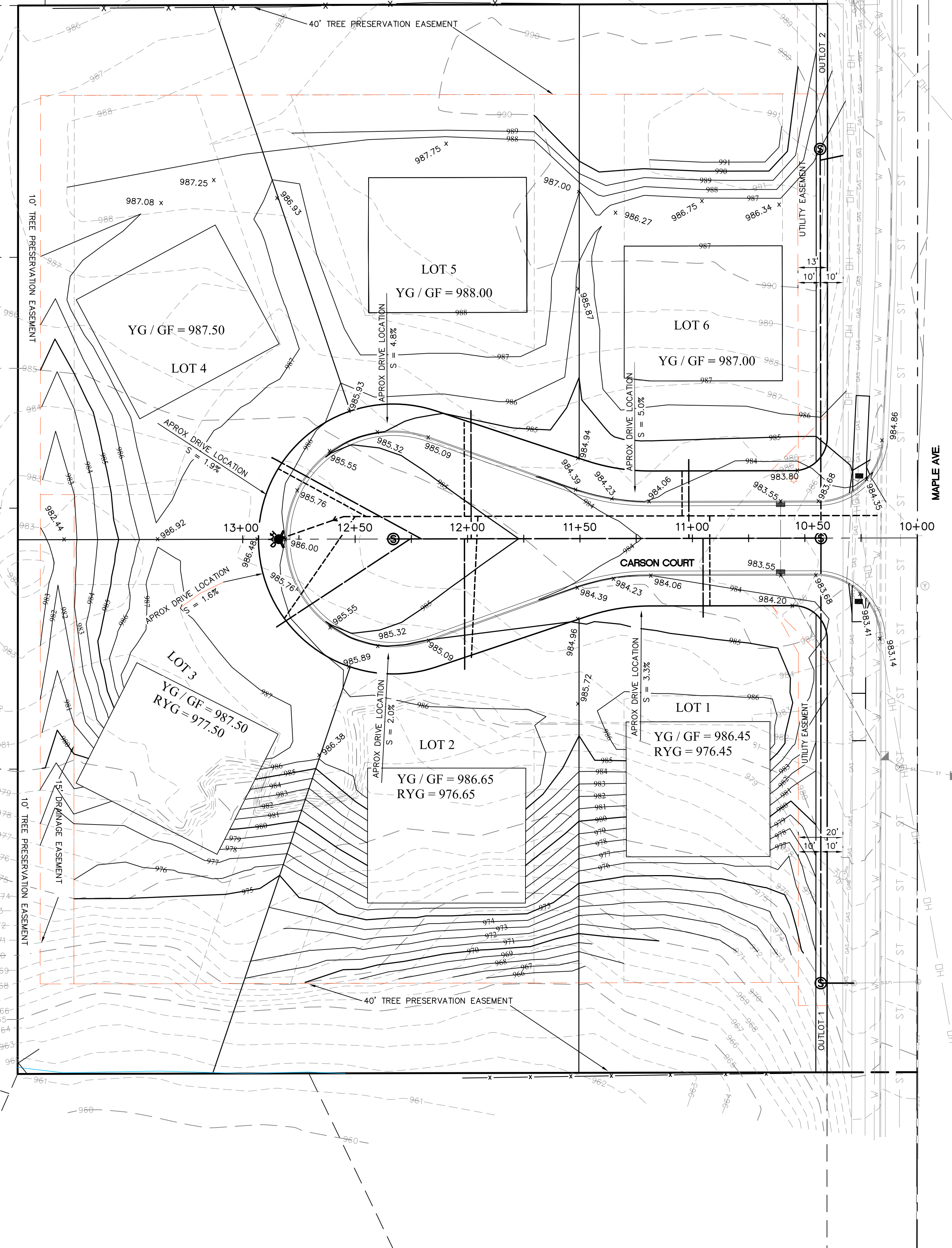
PROJ. # 25-3553
 SHEET # 6 OF 10



LEGEND

- 864--- EXISTING 1' CONTOURS
- 865--- EXISTING 5' CONTOURS
- 864— FUTURE 1' CONTOURS
- 865— FUTURE 5' CONTOURS
- 864.66 EXISTING SPOT GRADES
- 864.66 PROPOSED SPOT GRADES

- MINIMUM GRADES MAY BE ALTERED WITH APPROVED GRADING PLAN ON EACH UNIT
- PROPOSED EASEMENT SEE PLAT
- YG / GF MINIMUM YARD GRADE / GARAGE FLOOR (0.5' BELOW TOP OF FOUNDATION)
- RYG MINIMUM REAR YARD GRADE OF EXPOSURE (0.5' BELOW TOP OF FOUNDATION)



APPROVED FOR CONSTRUCTION

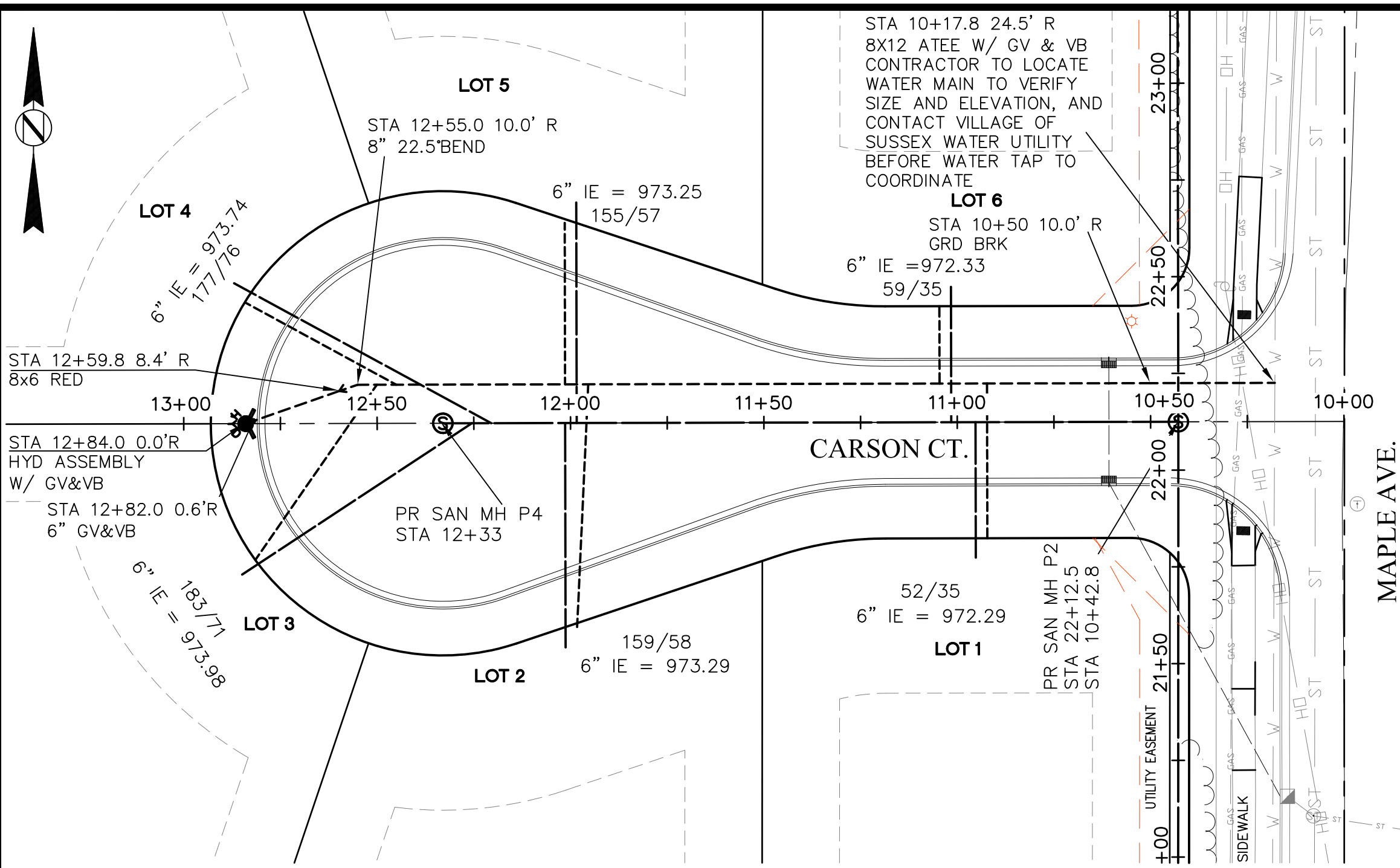
MASTER GRADING PLAN
 MAPLE WOODS ESTATES
 MAGNUM EXCAVATING LLC.
 SE 1/4 S15, T8N, R19E, V0 SUSSEX, WAUKESHA CO. WI

PROJ. #
25-3553

SHEET #
7 OF 10

Lake Country Engineering, Inc.
 Consulting Engineers - Surveyors
 P.O. BOX 144 Oconomowoc, WI 53065
 Phone (262) 569-3631

REVISION DATE	REMARKS
SCALE: 1" = 30'	
DRAWN BY: E.D.	
CHECKED BY: E.D.	
DATE: APRIL 23, 2026	



WATER LATERAL LATERAL TABLE

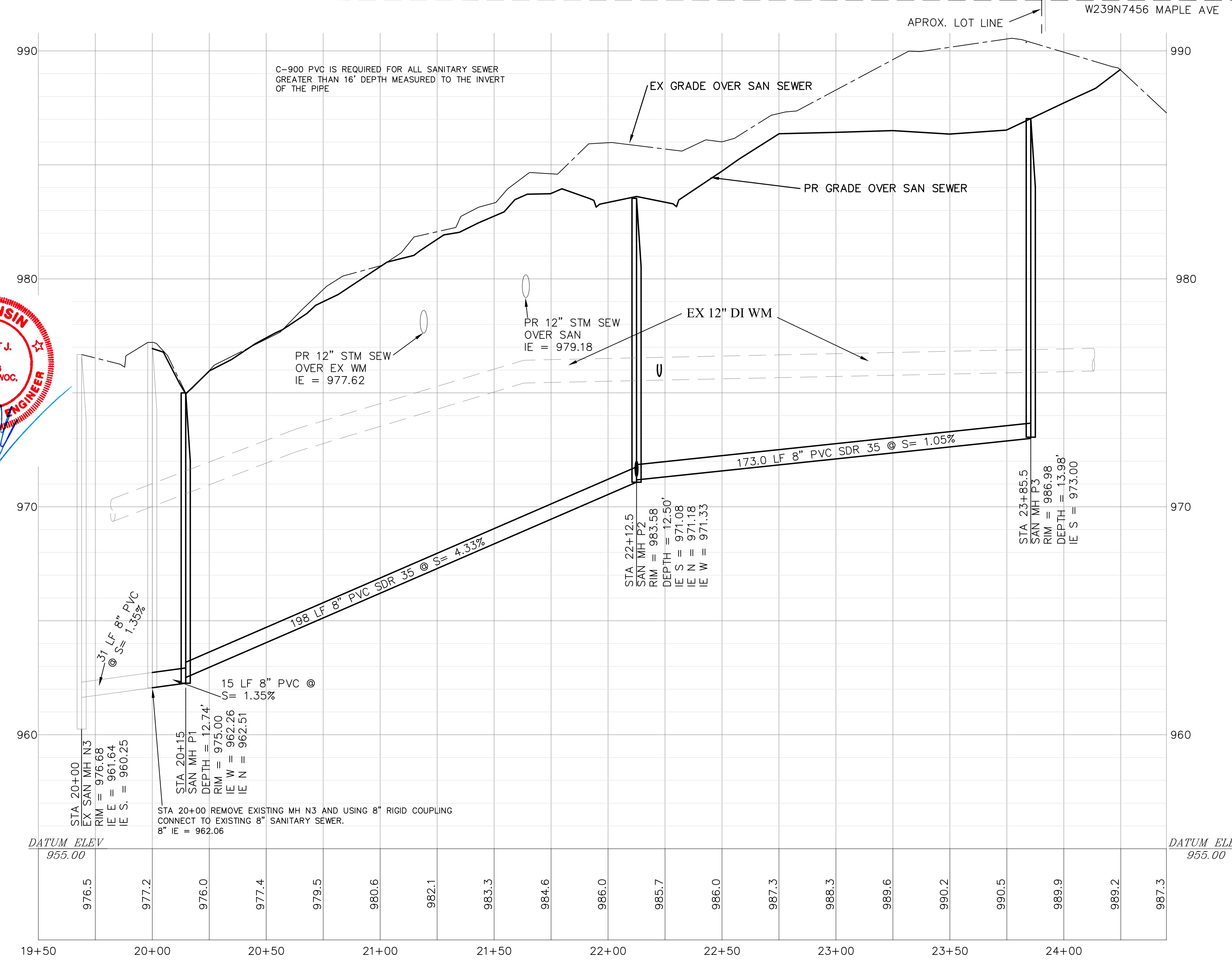
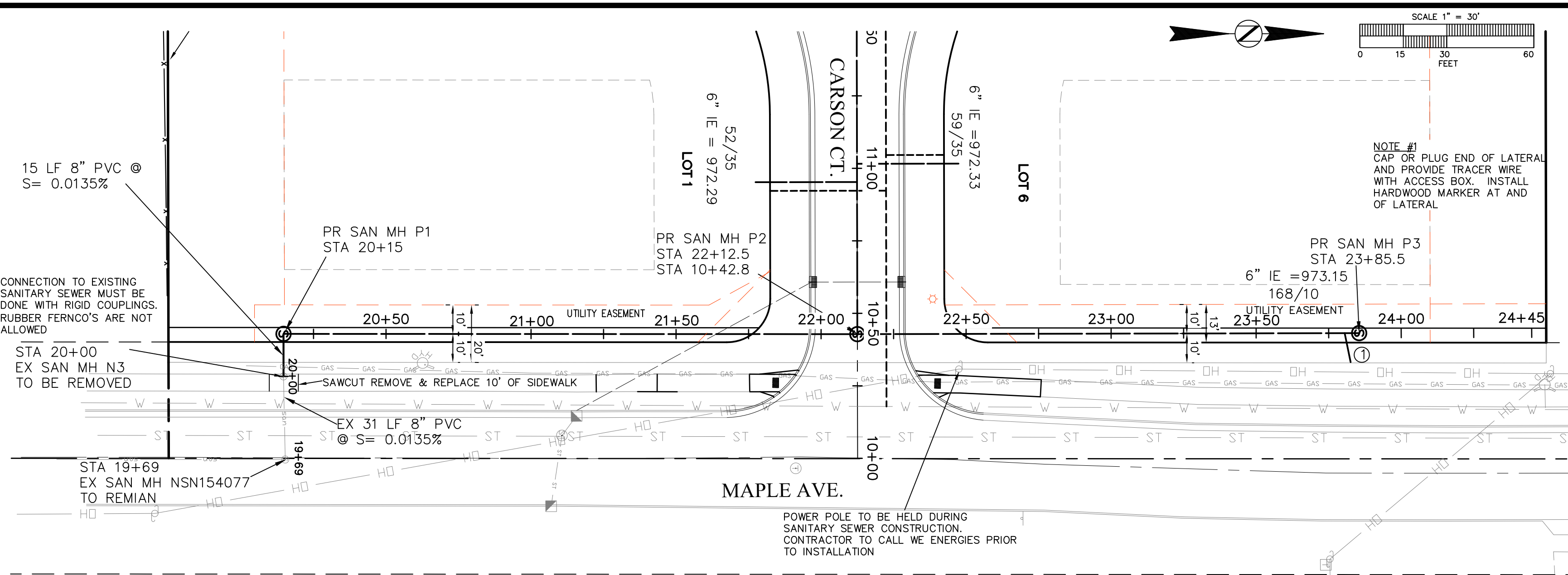
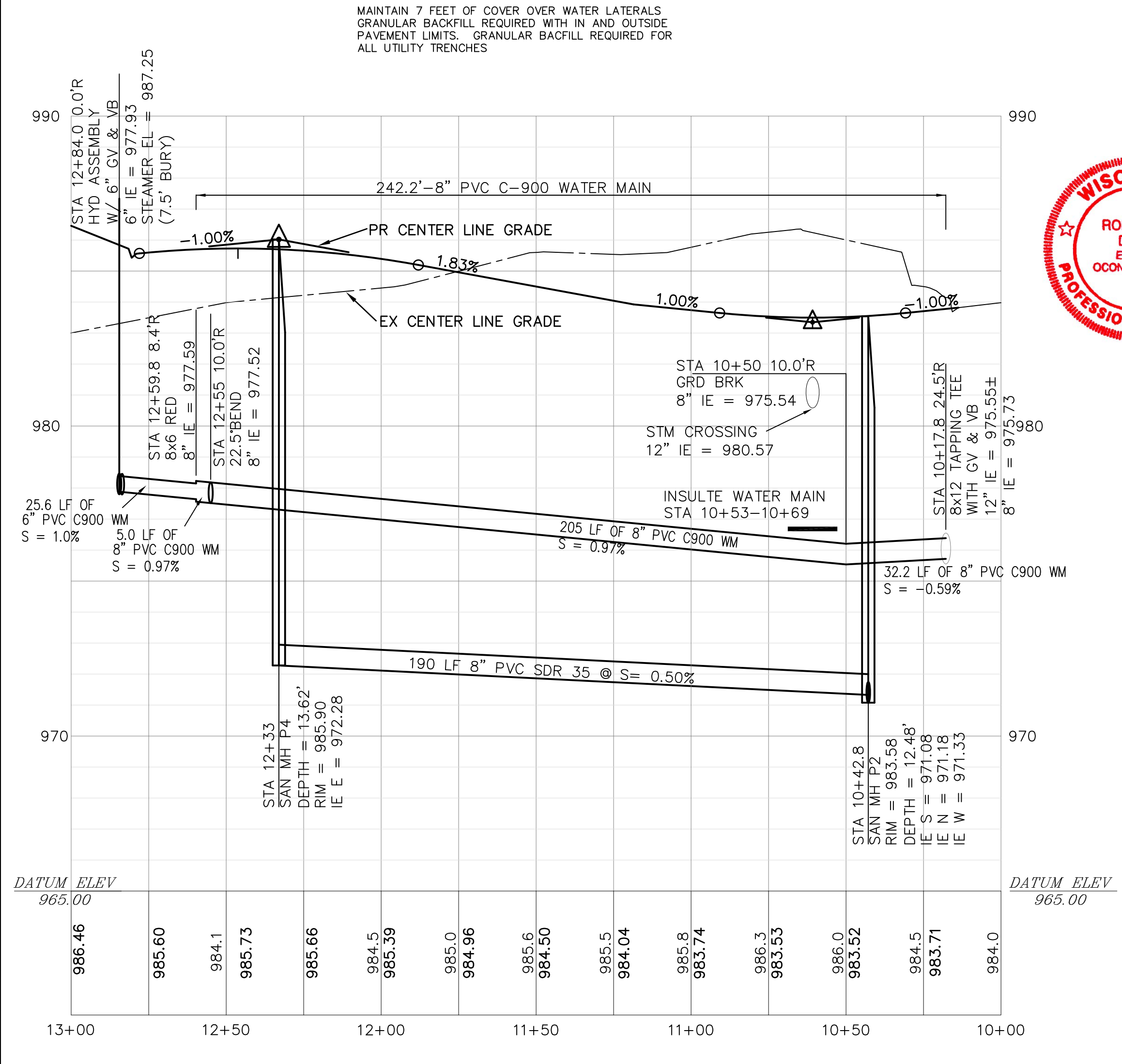
LOT #	PIPE SLOPE	LENGTH	INVERT AT END
1	2.0%	35'	972.29
2	2.0%	58'	973.29
3	2.0%	71'	973.98
4	2.0%	76'	973.74
5	2.0%	57'	973.25
6	2.0%	35'	972.33
W239N7456	2.0%	10.0'	973.15

SANITARY SEWER LATERAL TABLE

LOT #	PIPE SLOPE	LENGTH	INVERT AT END
1	2.0%	35'	972.29
2	2.0%	58'	973.29
3	2.0%	71'	973.98
4	2.0%	76'	973.74
5	2.0%	57'	973.25
6	2.0%	35'	972.33
W239N7456	2.0%	10.0'	973.15

LEGEND

- ST - EXISTING STORM SEWER
- - PROPOSED STORM SEWER
- W - EXISTING WATER MAIN
- - PROPOSED WATER MAIN
- - EXISTING SANITARY SEWER
- - PROPOSED SANITARY SEWER



APPROVED FOR CONSTRUCTION

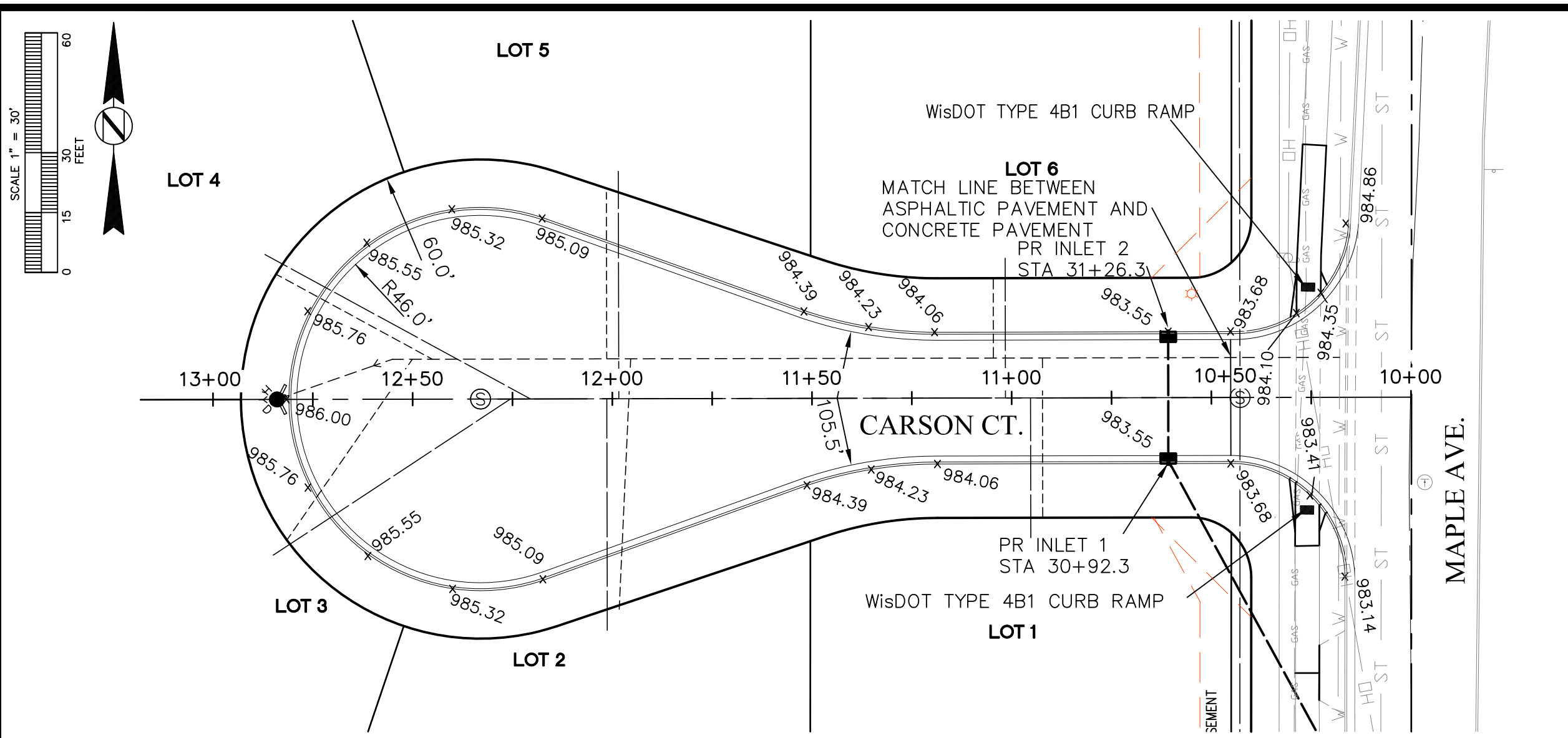
LAKE COUNTRY ENGINEERING, INC.
Consulting Engineers - Surveyors
P.O. BOX 144 Oconomowoc, WI 53065
Phone (262) 569-3631

SANITARY SEWER AND WATERMAIN PLAN
MAPLE WOODS ESTATES
MAGNUM EXCAVATING LLC.
SE 1/4 S15, T8N, R19E, V0 SUSSEX, WAUKESHA CO. WI

PROJ. # 25-3553
SHEET # 8 OF 10

REVISION DATE: _____
SCALE: 1" = 40'
DRAWN BY: R.D.
CHECKED BY: R.D.
DATE: APRIL 23, 2026

REMARKS: _____



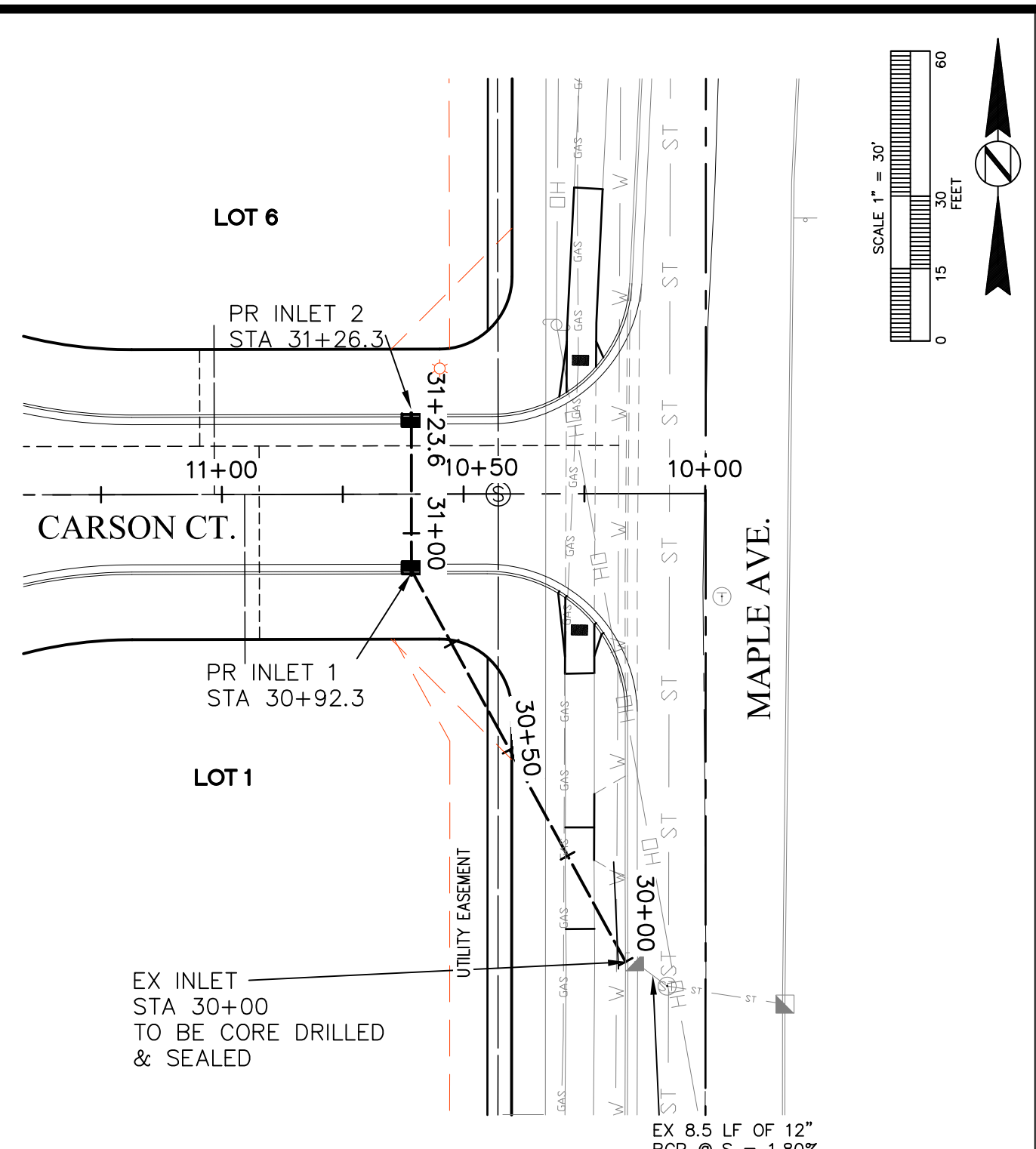
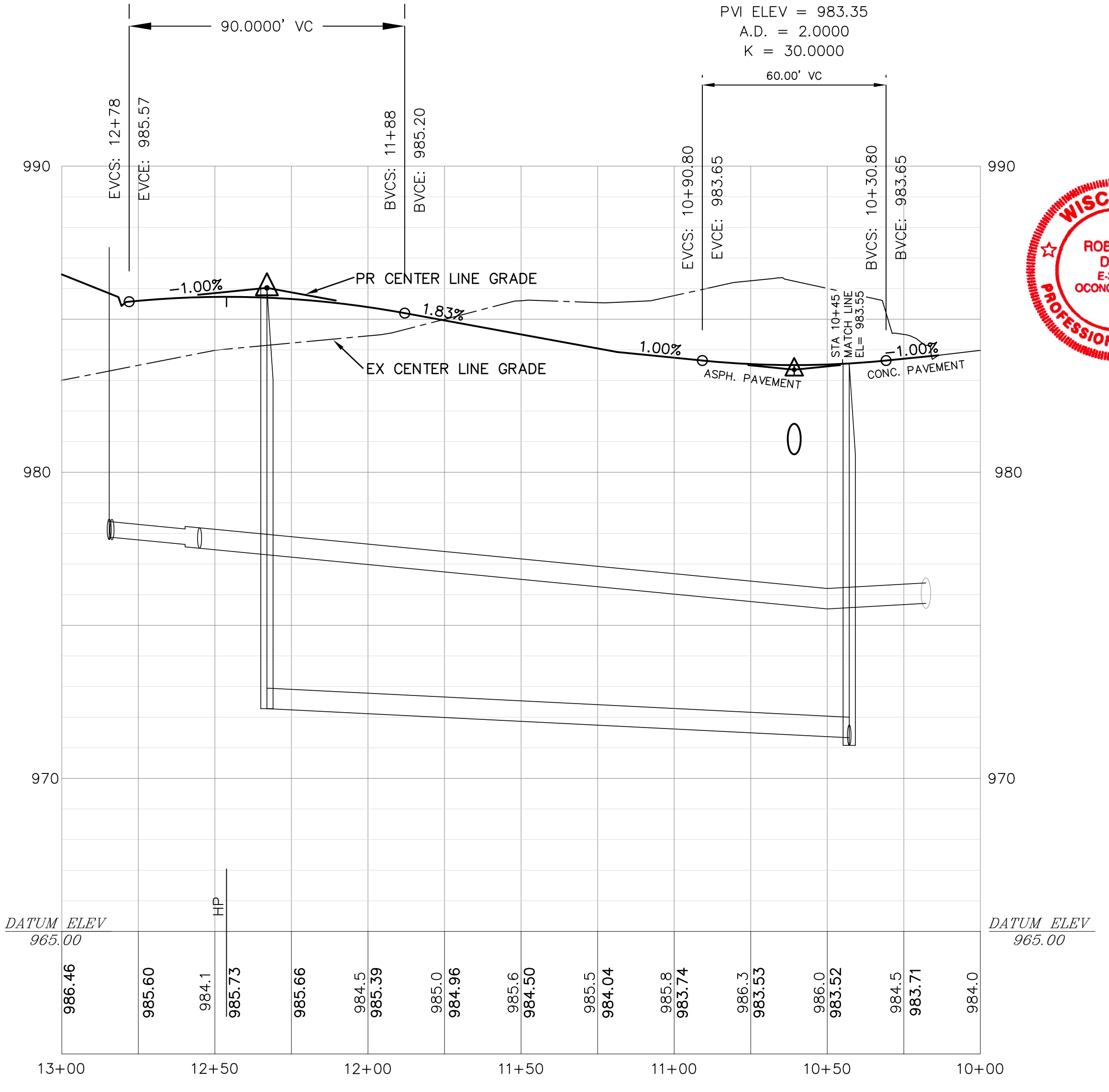
LEGEND

ST EXISTING STORM SEWER
 --- PROPOSED STORM SEWER
 --- EXISTING WATER MAIN
 --- PROPOSED WATER MAIN
 --- EXISTING SANITARY SEWER
 --- PROPOSED SANITARY SEWER

983.63 x PR SPOT GRADES (TOP BACK OF CURB TYP)
 *983.43 EX SPOT GRADES

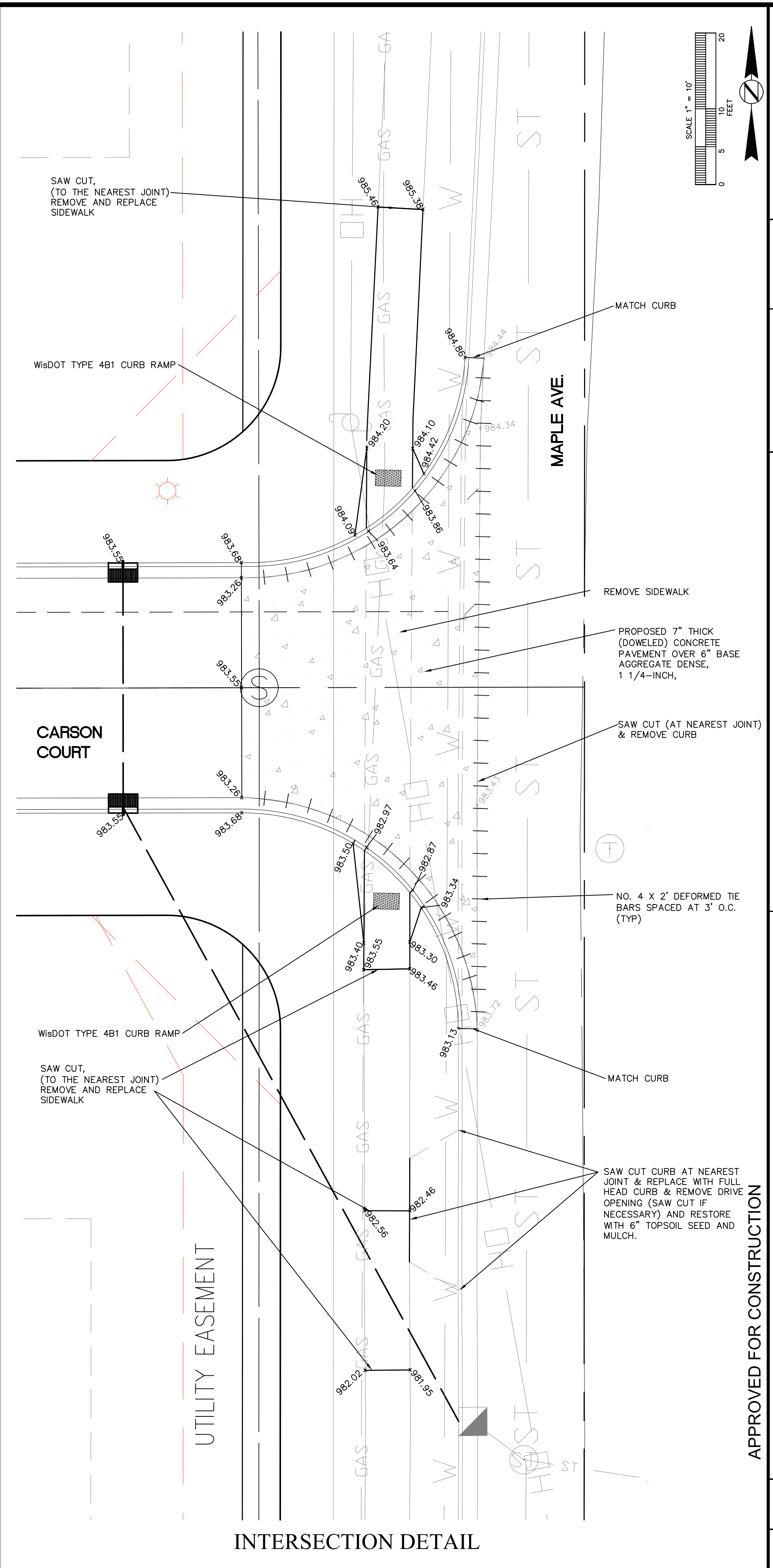
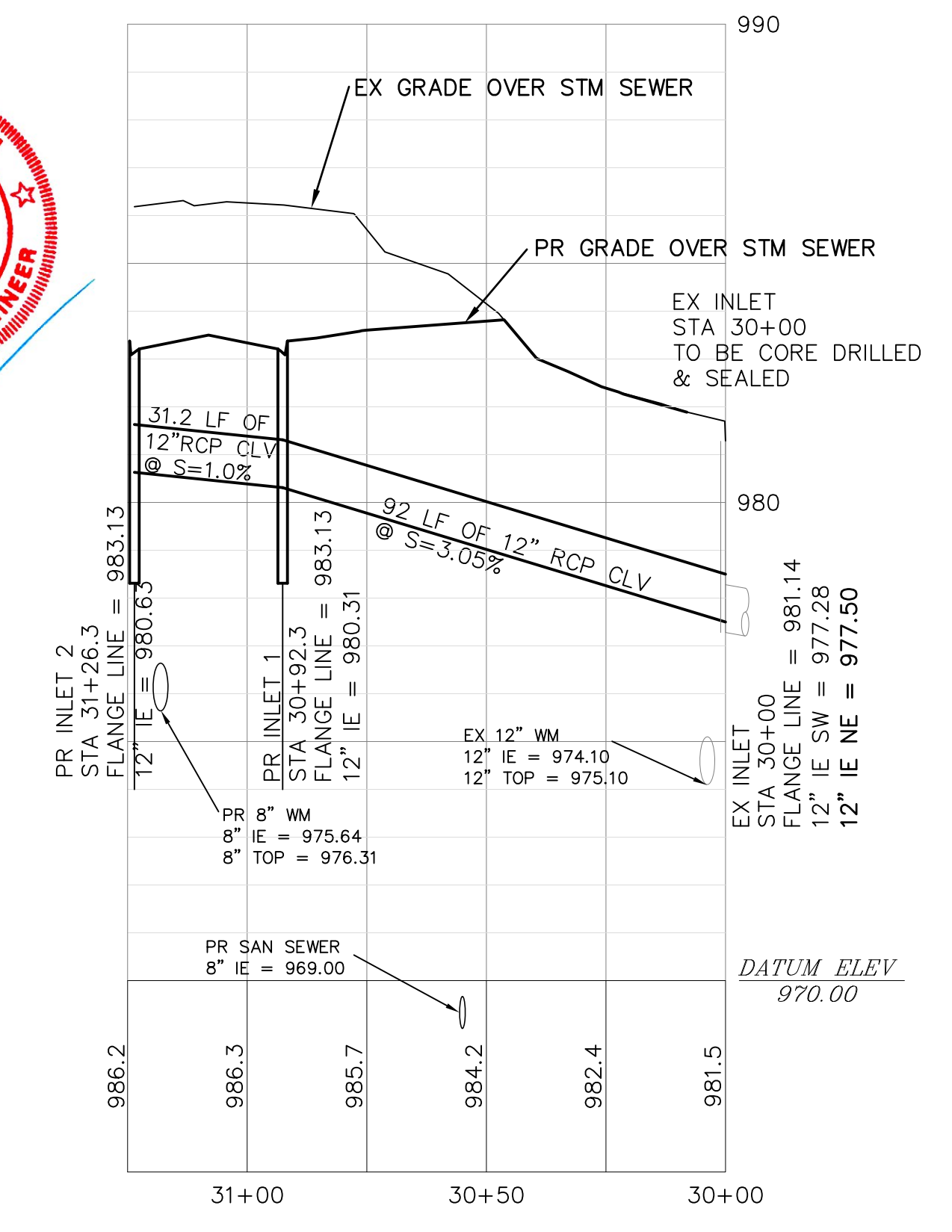
HIGH POINT ELEV = 985.73
 HIGH POINT STA = 12+46.20
 PVI STA = 12+33
 PVI ELEV = 986.02
 A.D. = -2.8300
 K = 31.8021

LOW POINT ELEV = 983.50
 LOW POINT STA = 10+60.80
 PVI STA = 10+60.80
 PVI ELEV = 983.35
 A.D. = 2.0000
 K = 30.0000



STORM SEWER STRUCTURE TABLE

INLET #	STRUCTURE TYPE	CASTING	PIPE ELEV.	SUMP ELEV.
1	CATCH BASIN	R-3067-DR/DL	980.31	978.31
2	CATCH BASIN	R-3067-DR/DL	980.63	978.63



APPROVED FOR CONSTRUCTION

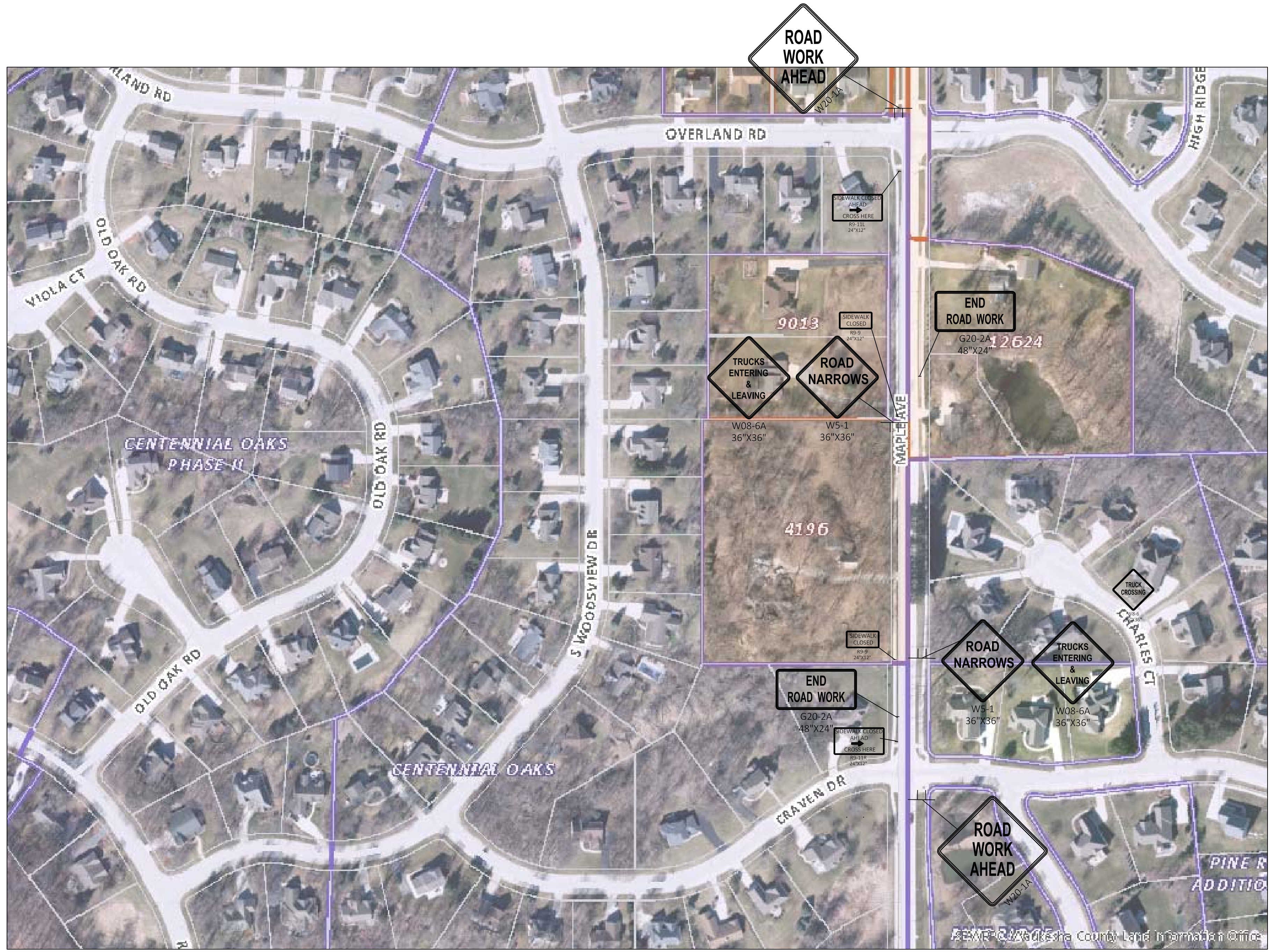
STORM SEWER & ROAD PLAN
 MAPLE WOODS ESTATES
 MAGNUM EXCAVATING LLC.
 SE 1/4 S15, T8N, R19E, V0 SUSSEX, WAUKESHA CO. WI

PROJECT # 25-3553
 SHEET # 9 OF 10

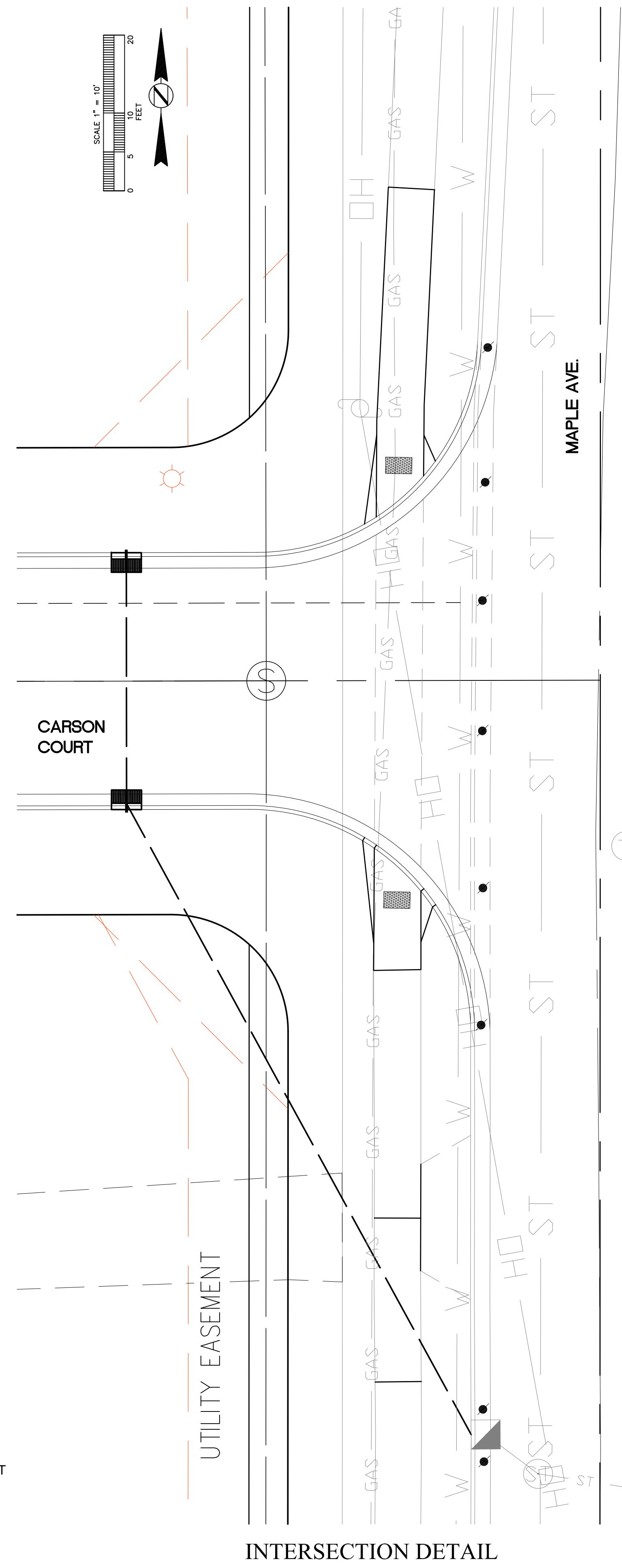
LAKE COUNTRY ENGINEERING, INC.
 Consulting Engineers - Surveyors
 P.O. BOX 144 Oconomowoc, WI 53066
 Phone (262) 569-3631

DATE: APRIL 23, 2026
 CHECKED BY: ELODAY
 CREATED BY: ELODAY
 SCALE: 1" = 30'
 REVISION DATE

REMARKS



TRAFFIC CONTROL LEGEND
 TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT



MAPLE AVE. IS 30' WIDE AT THIS POINT CONTRACTOR TO MOVE BARRELS SO THAT THERE IS 20' OF DRIVING LANES TO ALLOW FOR 2 WAY TRAFFIC WHILE INSTALLING NEW WATER MAIN. IF 2 10' WIDE LANES CAN NOT BE PROVIDED CONTRACTOR TO PROVIDE FLAGGER

BARRELS TO REMAIN IN GUTTER LINE UNTIL NEW CURB IS POURED AND ASPHALT IS PLACED

APPROVED FOR CONSTRUCTION

TRAFFIC CONTROL PLAN
 MAPLE WOODS ESTATES
 MAGNUM EXCAVATING LLC.
 SE 1/4 S15, T8N, R19E, VO SUSSEX, WAUKESHA CO. WI

PROJ. #
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10 OF 10

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REVISION DATE	REMARKS
SCALE: NTS DRAWN BY: B.D. CHECKED BY: E.DAVY DATE: APRIL 23, 2026	