

GENERAL NOTES

- UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.
MISSOURI ONE CALL: 1-800-DIG-RITE (1-800-344-7483)
- ALL FILLED PLACES, INCLUDING TRENCH BACKFILLS, UNDER BUILDINGS, PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS, SHALL BE COMPACTED TO 90% MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-100 COMPACTION TEST," (A.S.T.M.-D-1557). ALL FILLED PLACES WITHIN PUBLIC ROADWAYS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE "STANDARD PROCTOR TEST AASHTO T-99, METHOD C" (A.S.T.M. D-698).
- ALL TRENCH BACKFILLS UNDER PAVED AREAS SHALL BE GRANULAR BACKFILL, AND SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-100 COMPACTION TEST," (A.S.T.M.-D-1557). ALL OTHER TRENCH BACKFILLS MAY BE EARTH MATERIAL (FREE OF LARGE CLODS OR STONES). ALL TRENCH BACKFILLS SHALL BE WATER JETTED.
- NO AREA SHALL BE CLEARED WITHOUT THE PERMISSION OF THE PROJECT ENGINEER.
- ALL GRADES SHALL BE WITHIN 0.2 FEET OF THOSE SHOWN ON THE CONSTRUCTION PLANS.
- NO SLOPE SHALL BE STEEPER THAN 3:1 OR AS CALLED FOR IN THE SOILS REPORT FOR THE PROJECT.
- ALL CONSTRUCTION AND MATERIALS USED SHALL CONFORM TO CURRENT CITY OF O'FALLON STANDARDS.
- ALL SOILS TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH THE GRADING AND BACKFILLING OPERATIONS, AND MUST BE SUPPLIED TO THE CITY OF O'FALLON.
- SILTATION CONTROL, IF REQUIRED, WILL BE PLACED AT THE DIRECTION OF THE SOILS ENGINEER ON-SITE AND THE LOCAL GOVERNING AUTHORITY PRIOR TO PLACEMENT.
- ALL DISTURBED AREAS ON PROPERTIES WITH A HOME OR BUSINESS SHALL BE SODDED, ALL OTHER AREAS SHALL BE SEEDED AND MULCHED.
- ALL STORM PIPE SHALL BE A.S.T.M. C-76 CLASS III, 0-RING GASKETED REINFORCED CONCRETE PIPE UNLESS NOTED.
- DESIGN CRITERIA:
CREST VERTICAL CURVE K = 55
SAG VERTICAL CURVE K = 50
MINIMUM RADIUS R = 250'
MAXIMUM SLOPE 8.00%
MINIMUM SLOPE 1.00%
DESIGN SPEED 25 M.P.H.
- DEVELOPER MUST SUPPLY CITY CONSTRUCTION INSPECTORS WITH SOIL REPORTS PRIOR TO OR DURING SITE SOIL TESTING.
- THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, STAKE STRAW BALES AND/OR SILTATION FABRIC FENCES (POSSIBLE METHODS OF CONTROL ARE DETAILED IN THE PLAN). CONTROL SHALL COMMENCE WITH GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR THE CITY OF O'FALLON AND/OR MCDOT MAY AT THEIR OPTION DIRECT THE CONTRACTOR IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILTS OR MUD ON NEW OR EXISTING PAVEMENT OR IN NEW OR EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEARED TO THE SATISFACTION OF THE OWNER AND/OR THE CITY OF O'FALLON AND/OR MCDOT.
- ALL FILLED PLACES UNDER PROPOSED STORM AND SANITARY SEWER, PROPOSED ROADS, AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-99 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ALL FILLED PLACES IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
- NO SLOPES SHALL BE STEEPER THAN 3 (HORIZONTAL) TO 1 (VERTICAL).
- BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF STORM AND/OR SANITARY SEWERS.
- ALL SIGN POST AND BACKS AND BRACKET ARMS SHALL BE PAINTED BLACK USING CARBOLINE RUSTBOND PENETRATING SEALER SG AND CARBOLINE 133 HB PAINT (OR EQUIVALENT AS APPROVED BY CITY AND MCDOT). SIGNS DESIGNATING STREET NAME SHALL BE ON THE OPPOSITE SIDE OF THE STREET FROM TRAFFIC CONTROL SIGNS. ALL SIGNS PER M.U.T.C.D.
- ACCORDING TO THE FLOOD INSURANCE RATE MAP OF THE COUNTY OF ST. CHARLES, MISSOURI, (COMMUNITY - PANEL NUMBER 2918360 239E, DATED AUGUST 2, 1996). THIS PROPERTY LIES WITHIN ZONE X. ZONE X IS DEFINED AS AN AREA DETERMINED TO BE OUTSIDE 500 YEAR FLOODPLAIN.
- ALL CURB INLETS SHALL HAVE A 5/8" TRASH BAR.
- ALL EROSION CONTROL SYSTEMS WILL BE INSPECTED AND NECESSARY CORRECTIONS MADE WITHIN 24 HOURS OF ANY RAIN STORM OF ONE HALF INCH OR MORE.
- NEW ENTRANCES SHALL NOT BE ANY CLOSER TO CRUSHER THAN STATION 6+05.32.
- PROPOSED SIDEWALKS SHALL BE BUILT BY FUTURE LOT OWNERS AS PART OF THE FUTURE PROPOSED DEVELOPMENTS.
- ALL STREET LIGHTING SHALL MEET AMERENUE STANDARDS.

AS-BUILT PLANS KEATON CROSSING BLVD. CITY OF O'FALLON, MISSOURI

DUCKETT CREEK SANITARY DISTRICT CONSTRUCTION

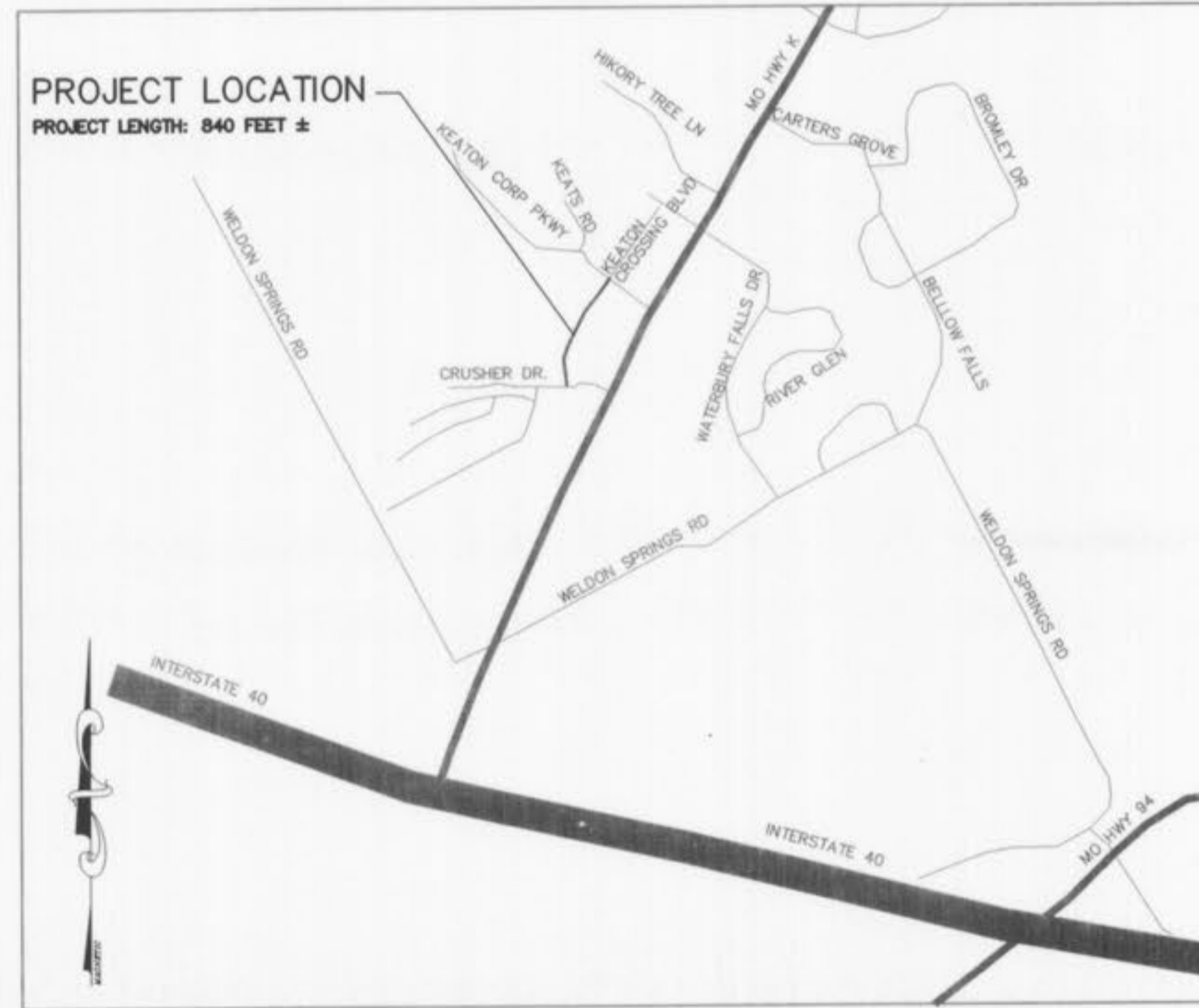
- Underground utilities have been plotted from available information and therefore their location shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to any grading or construction of improvements.
- Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary and storm sewers, including house laterals.
- All existing site improvements, disturbed, damaged or destroyed shall be repaired or replaced to closely matched preconstruction conditions.
- All fill including places under proposed storm and sanitary sewer lines and paved areas included trench backfills within and off the road right-of-way shall be compacted to 90 percent of maximum density as determined by the "Modified AASHTO T-100 Compaction Test (ASTM D1557)". All tests shall be verified by a Soils Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be non-yielding and non-pumping during proofrolling and compaction.
- The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
- All sanitary sewer flowlines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor.
- Easements shall be provided for all sanitary sewers, storm sewers and all utilities on the record plat.
- All construction and materials shall conform to the current construction standards of Duckett Creek Sanitary District.
- The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination and inspection.
- All sanitary sewer building connections shall be designed so that the minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding building connection shall not be less than the diameter of the pipe plus the vertical distance of 2-1/2 feet.
- All sanitary sewer manholes shall be waterproofed on the exterior in accordance with Missouri Dept. of Natural Resources specification 10 CSR-8.120(7)(E).
- All PVC sanitary sewer pipe is to be SDR-35 or equal with "clean" 1/2 inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of some size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
- All sanitary and storm sewer trench backfills shall be water jetted. Granular backfills will be used under pavement areas.
- All pipes shall have positive drainage through manholes. No flat invert structures are allowed.
- All creek crossings shall be grouted rip-rap as directed by District inspectors. (All grout shall be high slump ready-mix concrete).
- Brick shall not be used on sanitary sewer manholes.
- Existing sanitary sewer service shall not be interrupted.
- Maintain access to existing residential driveways and streets.
- Pre-manufactured adapters shall be used at all PVC to DIP connection. Rubber boot/Mission type couplings will not be allowed.

BENCHMARK:

REFERENCE BENCHMARK - 1M57 ELEV. 548.01 "CHISELED SQUARE" ON THE SOUTHWEST END OF THE SOUTH HEADWALL OF THE CULVERT LOCATED AT THE JUNCTION OF U.S. HIGHWAY 40 AND MISSOURI STATE HIGHWAY K. FEMA MAP 291830430 E

SITE BENCHMARKS:

SITE BENCHMARK ELEV=560.07 CHISELED SQUARE IN CENTER OF CABLE PEDESTAL, 75' WEST OF CENTERLINE OF HIGHWAY K AND 75' SOUTH OF CENTERLINE OF GRAVEL ROAD (ACCESS DRIVE)



LOCATION MAP
NOT TO SCALE

SEWER MEASUREMENTS

THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND SEWERS AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS.

ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS FOLLOWS:

SIGNED: DARREL R. COVIELL
P.E./L.S.
NUMBER: LS-2221C-1
DATE: 05/20/05

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2-4	SITE PLAN & PROFILE SHEETS
5	SANITARY PROFILE
6	STORM PROFILE

LEGEND

CI	SINGLE CURB INLET
DCI	DOUBLE CURB INLET
AI	AREA INLET
MH	MANHOLE
FE	FLARED END SECTION
EP	END PIPE
CP	CONCRETE PIPE
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
PVC	POLY VINYL CHLORIDE (PLASTIC)
CO	CLEAN OUT
TBR	TO BE REMOVED
TBR&R	TO BE REMOVED AND REPLACED
TBR&REL	TO BE REMOVED AND RELOCATED
UIP	USE IN PLACE
TCE	TEMPORARY CONSTRUCTION EASEMENT
PDE	PERMANENT DRAINAGE EASEMENT
—	SLOPE LIMITS
—	DRAINAGE SWALE
—	STORM SEWER

UTILITIES:

ELECTRIC:	AMEREN UE 200 CALLAHAN RD WENTZVILLE, MO 63385 (636)639-8210	CUIVRE RIVER ELECTRIC P.O. BOX 508 WENTZVILLE, MO 63385 (636)441-7410
TELEPHONE:	CENTURYTEL TELEPHONE OPERATIONS 1151 CENTURYTEL DRIVE WENTZVILLE, MO 63385 (636) 332-7318	
GAS:	LACLEDE GAS COMPANY 3950 FOREST PARK ST. LOUIS, MO 63108 (314) 658-5418	
SEWER:	DUCKETT CREEK SANITARY DISTRICT 3550 HWY K ST. CHARLES, MO 63304 (636) 441-1244	
WATER:	MO. AMERICAN WATER CO. 535 NORTH NEW BALLAS ROAD ST. LOUIS, MO 63141 (314) 991-3404	
CABLE:	CHARTER COMMUNICATIONS 4160 OLD MILL PARKWAY ST. PETERS, MO 63376 (636) 441-7737	
DEVELOPER:	DAVE KOLB GRADING 5733 WESTWOOD DR ST. CHARLES, MO 63304 (636)749-2700 (BRADLEY KAZMAIER)	

BAX NO. 02-12221C

PREPARED FOR:
CORPORATE GROUP
2500 OLD HIGHWAY 94 SOUTH, SUITE 200
ST. CHARLES, MO 63303
636-946-0761

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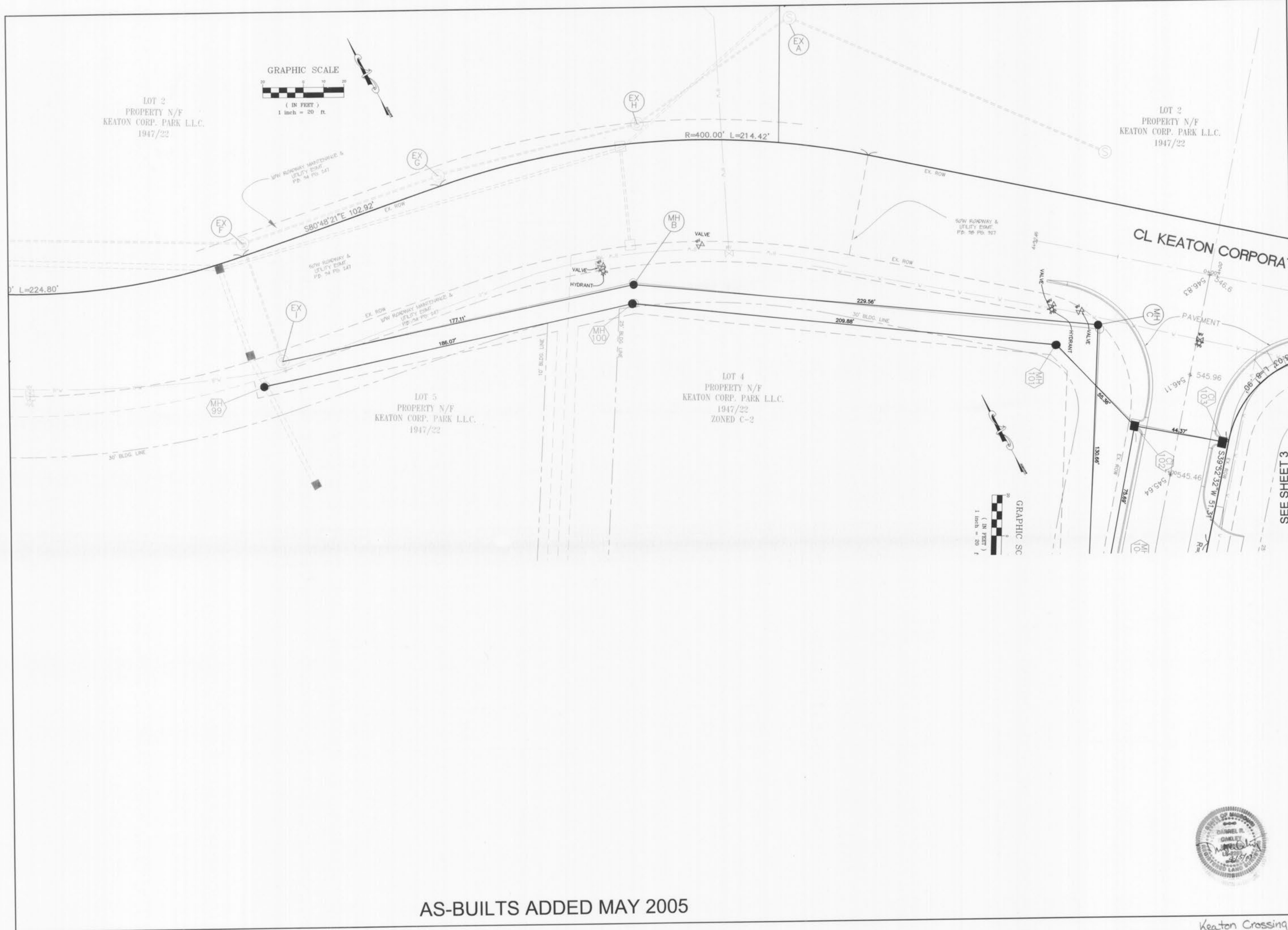
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FAX 928-1718

04-21-05	DATE
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1	SHEET OF 6
12221C/ASB.DWG	FILE NAME
MCG	DRAWN
DRO	DESIGNED
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AS-BUILTS ADDED MAY 2005

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 KEATON CROSSING BLVD.

PREPARED FOR:
 CL KEATON CORPORATION

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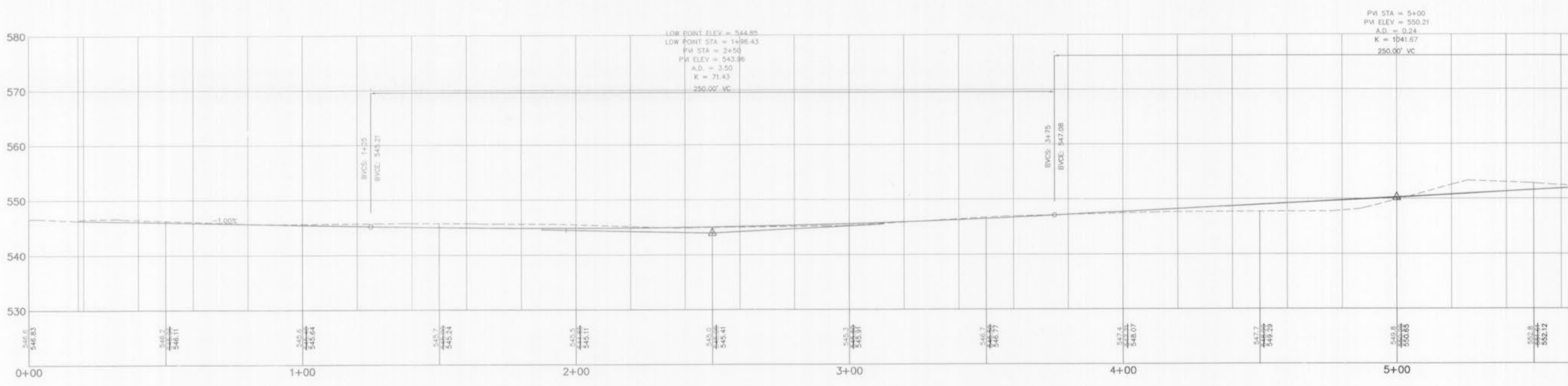
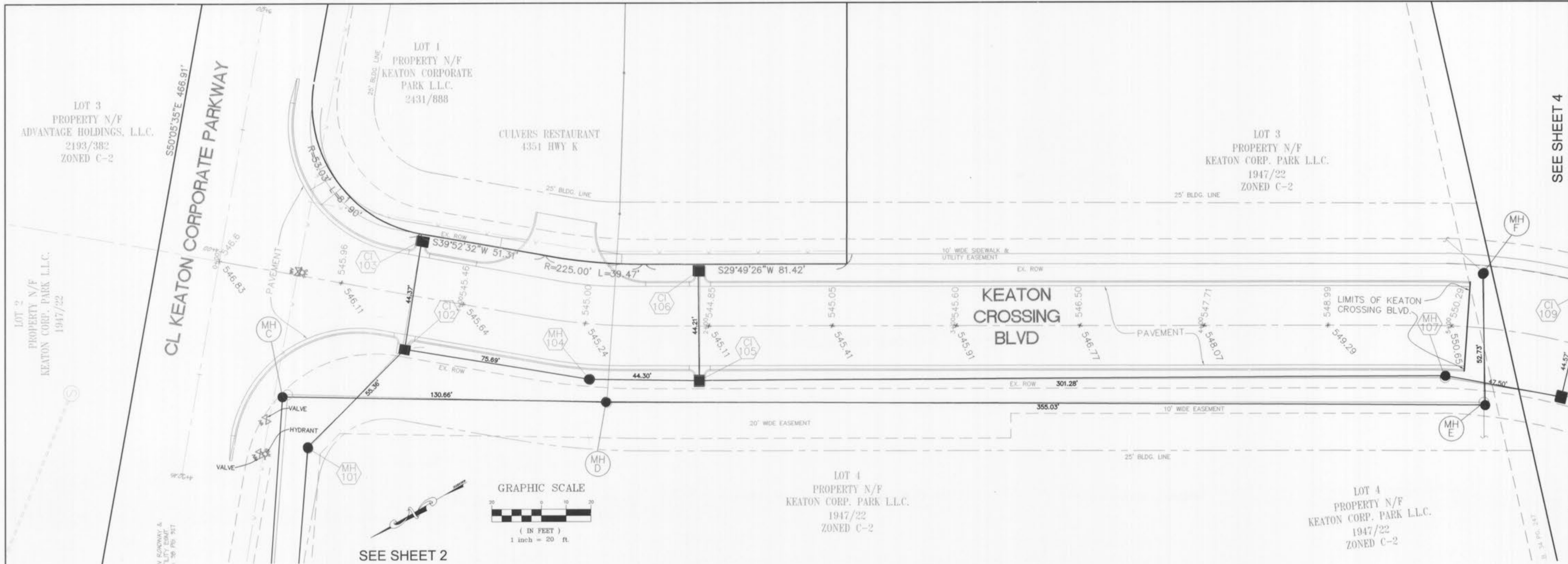
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 FILE NAME
 MCG
 DRAWN
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SEE SHEET 3

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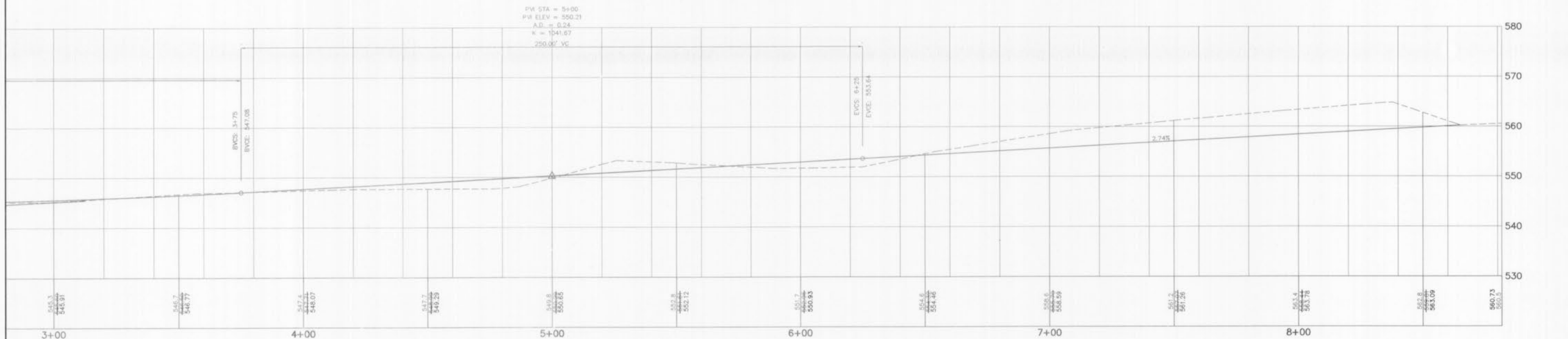
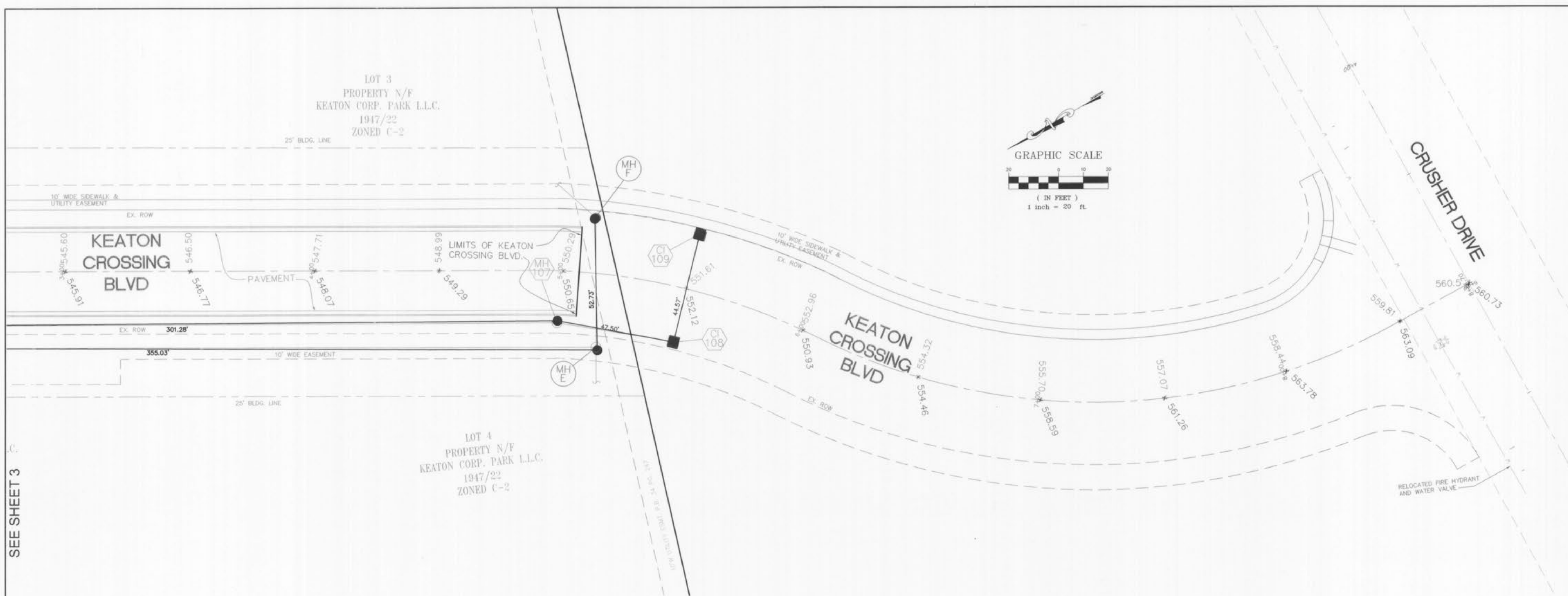
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SEE SHEET 3

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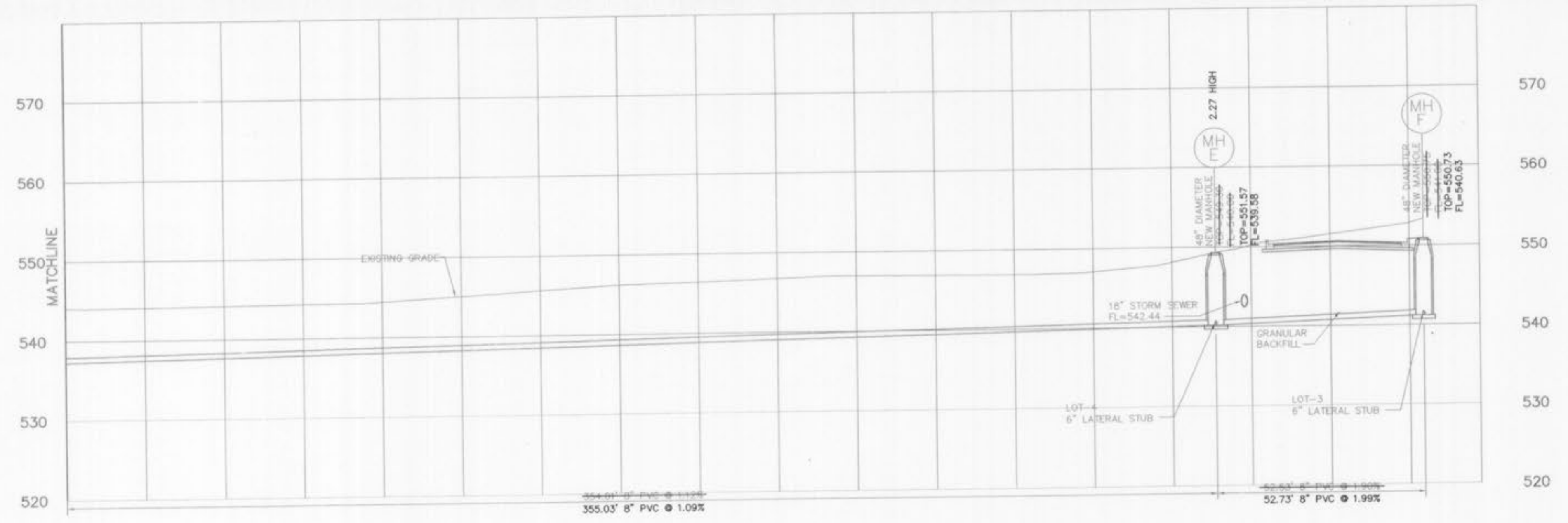
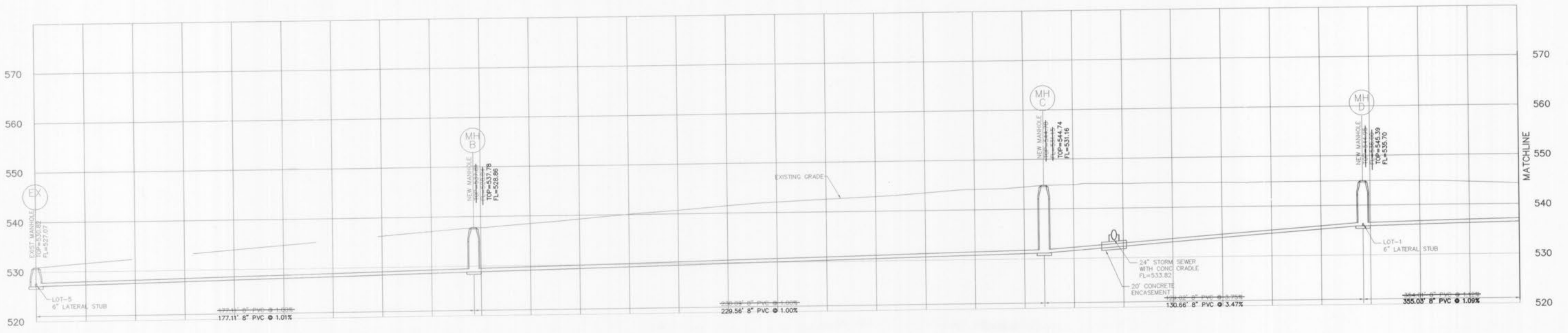
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AS BUILT SANITARY PROFILES
KEATON CROSSING BLVD.

02-12221C-1 04-29-05



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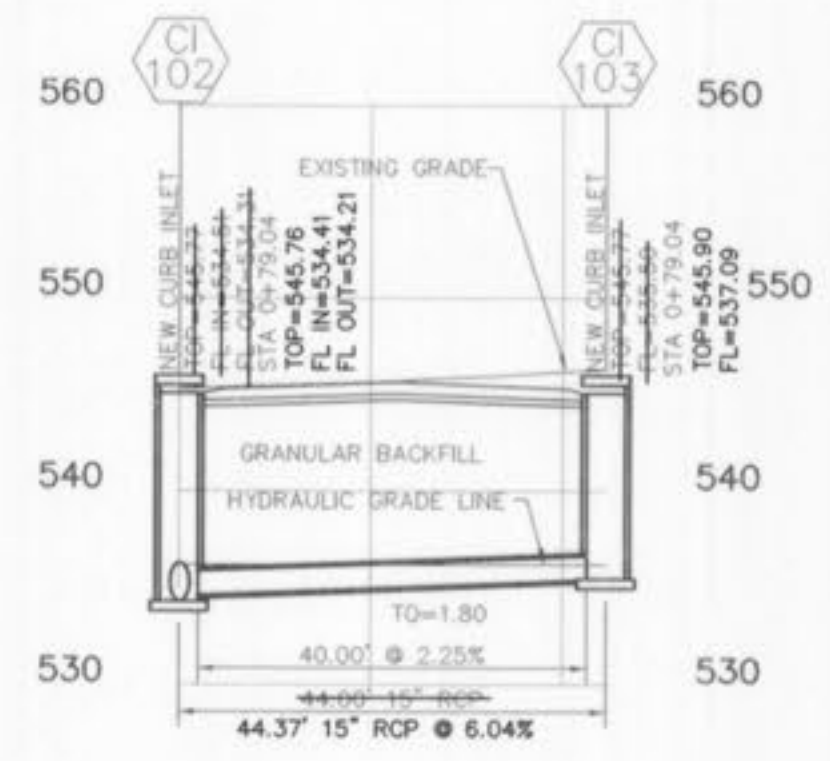
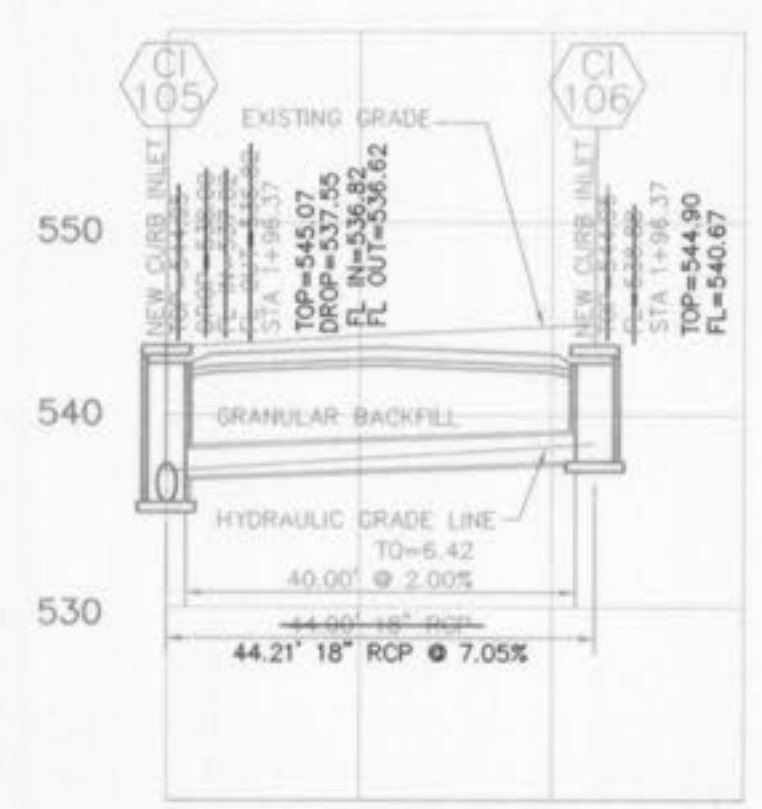
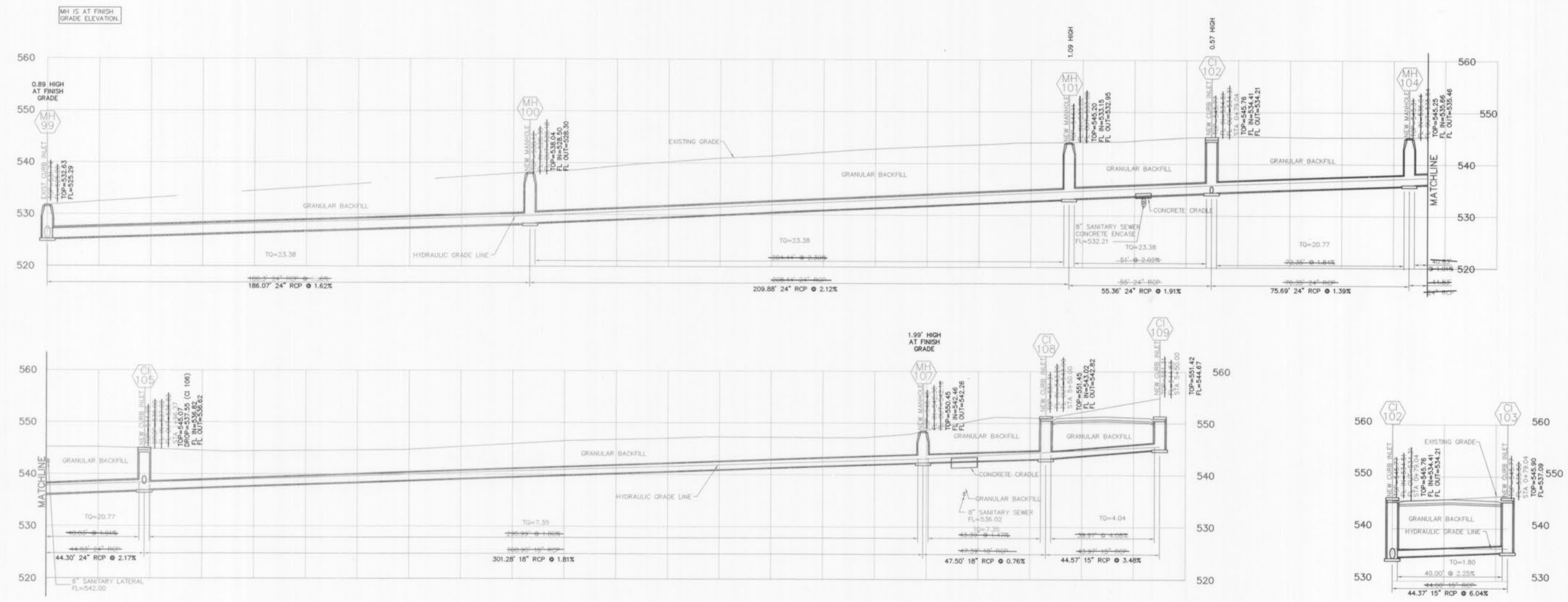
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