

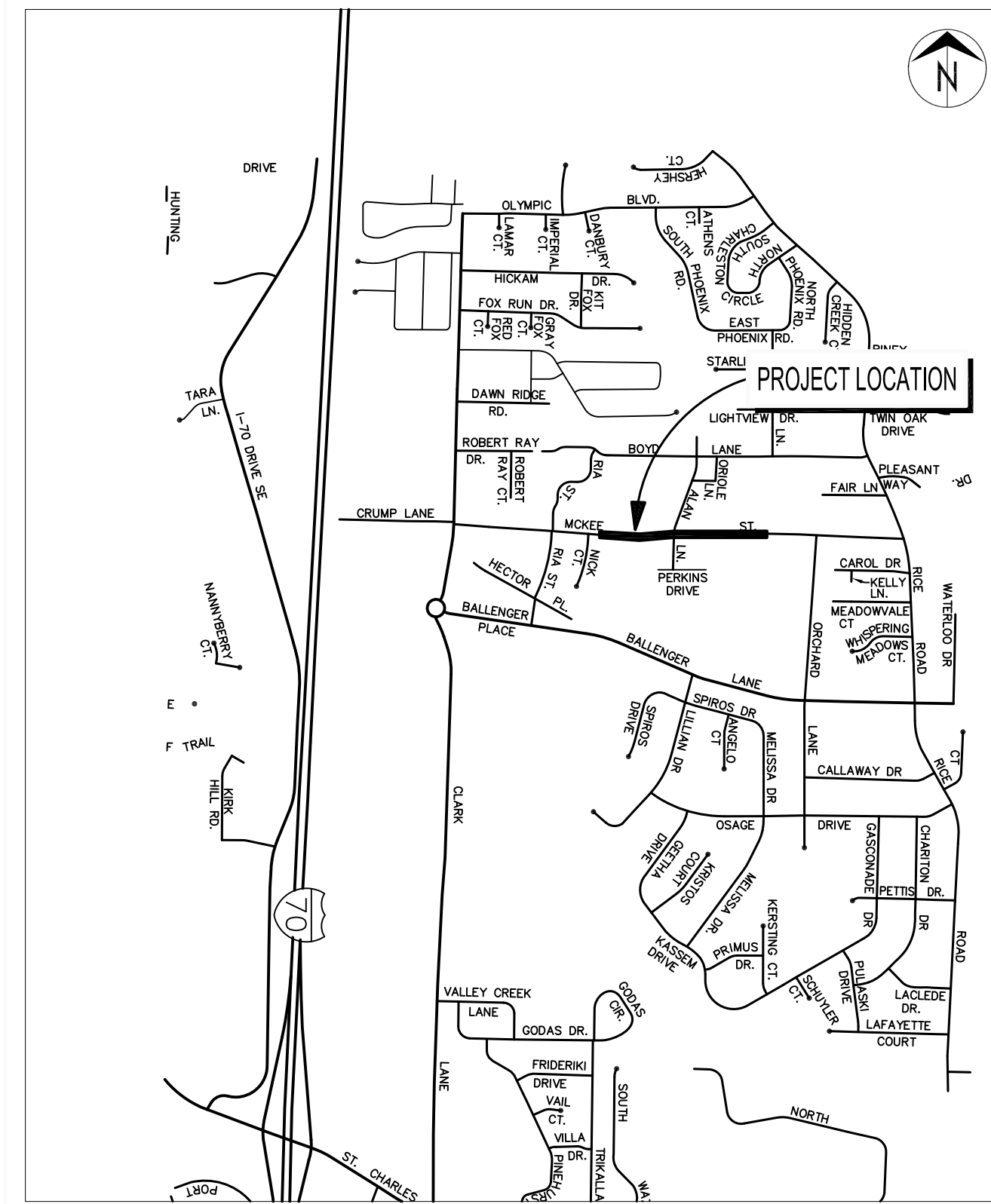
City of Columbia, Missouri

Department of Public Works



McKEE STREET

SIDEWALK



LOCATION MAP

LEGEND OF SYMBOLS

| | |
|---|--|
| POWER POLE | |
| TELEPHONE POLE | |
| GUY ANCHOR | |
| GUY POLE | |
| STREET LIGHT POLE | |
| YARD LIGHT (SOLAR) | |
| WATER METER | |
| GAS METER | |
| GAS VALVE | |
| WATER VALVE | |
| FIRE HYDRANT | |
| PIPE BREAKLINE | |
| SANITARY MANHOLE | |
| SANITARY CLEANOUT | |
| SANITARY LATERAL CLEANOUT | |
| TRAVERSE POINT | |
| MoDOT ROW MARKER | |
| BENCHMARK | |
| SIGN | |
| MAIL BOX | |
| PROPERTY IRON | |
| BUSH | |
| STUMP | |
| TREE REMOVAL | |
| TREE | |
| TREE LINE | |
| SILT FENCE/TREE PROTECT | |
| EXISTING PUBLIC SANITARY SEWER | |
| EXISTING SANITARY SEWER LATERAL | |
| EXISTING SANITARY SEWER TO BE ABANDONED | |
| PROPOSED SEWER MAIN AND LATERALS | |
| FENCE | |
| CABLE TELEVISION | |
| TELEPHONE | |
| ELECTRIC | |
| TELEPHONE OR ELECTRIC MANHOLE | |
| WATER MAIN | |
| GAS MAIN | |
| FIBER OPTIC | |
| FLOW LINE | |
| PROPERTY LINE | |
| LOT LINE | |
| EXISTING RIGHT OF WAY LINE | |
| EXISTING EASEMENT | |
| PERMANANT UTILITY EASEMENT | |
| PROPOSED SANITARY SEWER EASEMENT | |
| PROPOSED PERMANENT DRAINAGE EASEMENT | |
| PROPOSED RIGHT OF WAY | |
| TEMPORARY ACCESS EASEMENT | |
| TEMPORARY CONSTRUCTION EASEMENT | |
| GRADING LIMIT | |

| INDEX OF SHEETS | |
|-------------------------|-----------|
| Description | Sheet No. |
| Cover Sheet | 1 |
| Plan Sheets | 2, 6 |
| Detail Sheets | 7 |
| Storm Drainage Profiles | 8 |
| Cross Section Sheets | 9,17 |

GENERAL NOTES

- All construction to be in accordance with "City of Columbia Street, Storm and Sanitary Specifications" (Current edition).
- Known underground utilities are shown in their approximate locations. Other utilities may exist.
- All removal of driveway pavements should be verified by field engineer.
- All excavation to be in accordance with Sections 319.010-319.050, Revised Statutes of the State of Missouri. Such compliance shall not, however, excuse any person making any excavation from doing so in a careful and prudent manner, nor shall it excuse such person from liability for any damage or injury to underground utilities resulting from the excavation.
- All RCP is Class III unless otherwise indicated.
- All disturbed earth areas shall be restored as per TS-___ Seeding and TS-___ Erosion Control.
- Remove all pavement surfaces, inlets, pipes and sidewalks within the construction limits as per TS-___, except those noted to remain. The field inspector shall verify removal of all driveway pavement.
- Removal of trees and bushes shall be verified by field inspectors. Exercise caution when working near the construction limits to minimize disturbance to adjacent trees and shrubs that are not being removed by construction activities.
- Backfill of reinforced concrete pipe shall be 1 inch clean rock or soil compacted to 95 percent of standard proctor density as per TS-___.
- No open trenches will be allowed overnight outside of the "road closed" area. Asphaltic "cold mix" shall be used as a temporary patch overnight. Temporary patching shall be considered incidental to the work.

UTILITY COMPANIES:

TELEPHONE

CenturyLink
625 Cherry Street
Columbia, MO 65205
573-886-3505

NATURAL GAS

Ameren Missouri
2001 Maguire Boulevard
Columbia, MO 65201
573-876-3063

CABLE TELEVISION

Mediacom
901 N. College Avenue
Columbia, MO 65201
573-443-1536 ext 354

LOCATES

Missouri One Call Inc.
1022 B Northeast Drive
Jefferson City, MO 65109
1-800-344-7483

WATER

City of Columbia
P.O. Box 6015
Water & Light Department
Columbia, MO 65205
573-874-2489

ELECTRIC

City of Columbia
P.O. Box 6015
Water & Light Department
Columbia, MO 65205
573-874-2489

SANITARY SEWER

City of Columbia
P.O. Box 6015
Public Works Department
Columbia, MO 65205
573-874-2489

ELECTRIC (county)

Boone Electric Cooperative
1413 Range Line Street
Columbia, MO 65201
573-449-4181 ext 231

TRAVERSE POINTS

| # | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|--------|----------|---------|-----------|--------------------------|
| TP#100 | 1141026 | 1705998 | 824.192 | TP 60D |
| TP#101 | 1141235 | 1706009 | 819.153 | TP 60D |
| TP#102 | 1142214 | 1706031 | 793.552 | IP 1/2 |
| TP#103 | 1142184 | 1706031 | 793.539 | IP 1/2 |
| TP#104 | 1142033 | 1706031 | 802.241 | RE 1/2 |
| TP#105 | 1141931 | 1706031 | 804.824 | RE 5/8 ALUM CAP ALLSTATE |
| TP#106 | 1141726 | 1706032 | 808.635 | IP 1/2 |

City of Columbia, Missouri
Department of Public Works

| No. | Date | By | Revision |
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File No. 00712 Des. E.M.F..

Scale: None Dwn. C.N.S..

Date: 05/24/2019 Chk. A.A.A.

Sheet

1 of 17

David Allen Nichols
Registered Professional Engineer
E-24212

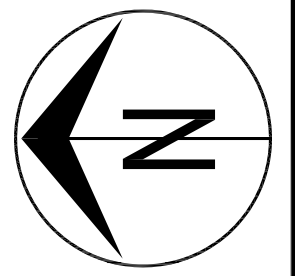
McKEE STREET SIDEWALK

Approved By _____

Director of Public Works _____ Date _____

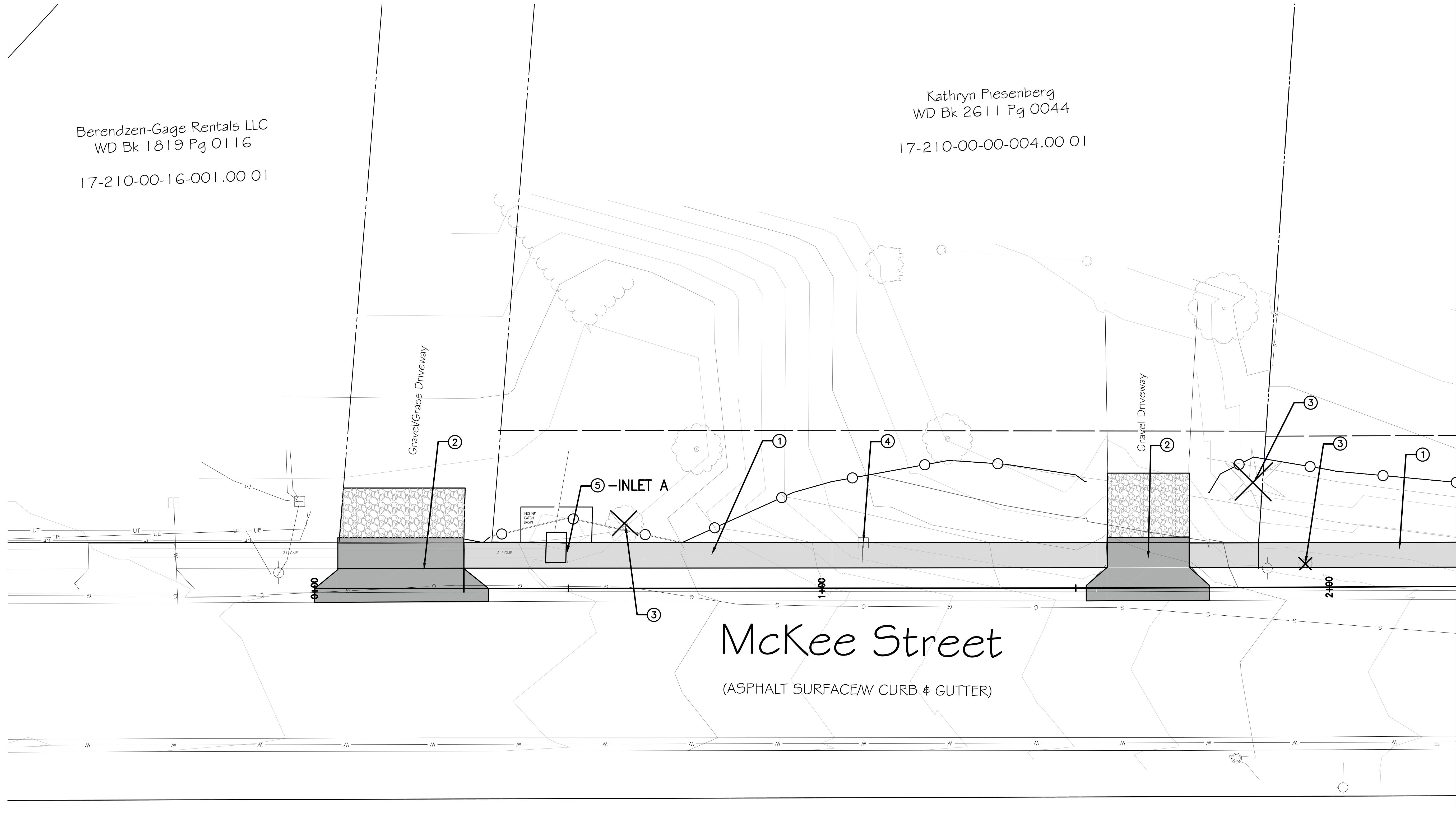
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- ① CONSTRUCT 5' WIDE 4" THICK PCC SIDEWALK PER DETAIL 1
- ② REMOVE AND RECONSTRUCT RESIDENTIAL DRIVEWAY PER DETAIL 4
- ③ REMOVE TREE/BUSHES/STUMP
- ④ ADJUST VAVLE
- ⑤ REMOVE EXISTING INLET AND RECONSTRUCT SIDE OPENING INLET PER DETAIL 5 AND 6



Berendzen-Gage Rentals LLC
 WD Bk 1819 Pg 0116
 17-210-00-16-001.00 01

Kathryn Piesenberg
 WD Bk 2611 Pg 0044
 17-210-00-00-004.00 01



McKee Street
 (ASPHALT SURFACE/W CURB & GUTTER)

MATCHLINE STA. 2+25

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MCKEE STREET SIDEWALK
 Plan Sheet

City of Columbia, Missouri
 Department of Public Works

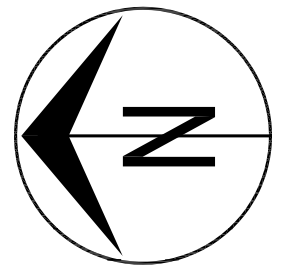
David Allen Nichols
 Registered Professional Engineer
 E-24212
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 Dwn. C.N.S.
 Chk. A.A.A.

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2011 Orthophoto Source: Boone County Assessor

- ① REMOVE EXISTING 4' SIDEWALK
- ② CONSTRUCT 5' WIDE 4" THICK PCC SIDEWALK PER DETAIL 1
- ③ REMOVE AND RECONSTRUCT RESIDENTIAL DRIVEWAY PER DETAIL 4
- ④ REMOVE AND RECONSTRUCT CONCRETE PAD
- ⑤ REMOVE TREE/BUSHES/STUMP
- ⑥ ADJUST VALVE

- ⑦ PROPERTY OWNER WANTS VALVE TO BE RAISED LEVEL WITH GROUND
- ⑧ EXISTING DRIVEWAY TO REMAIN IN PLACE.



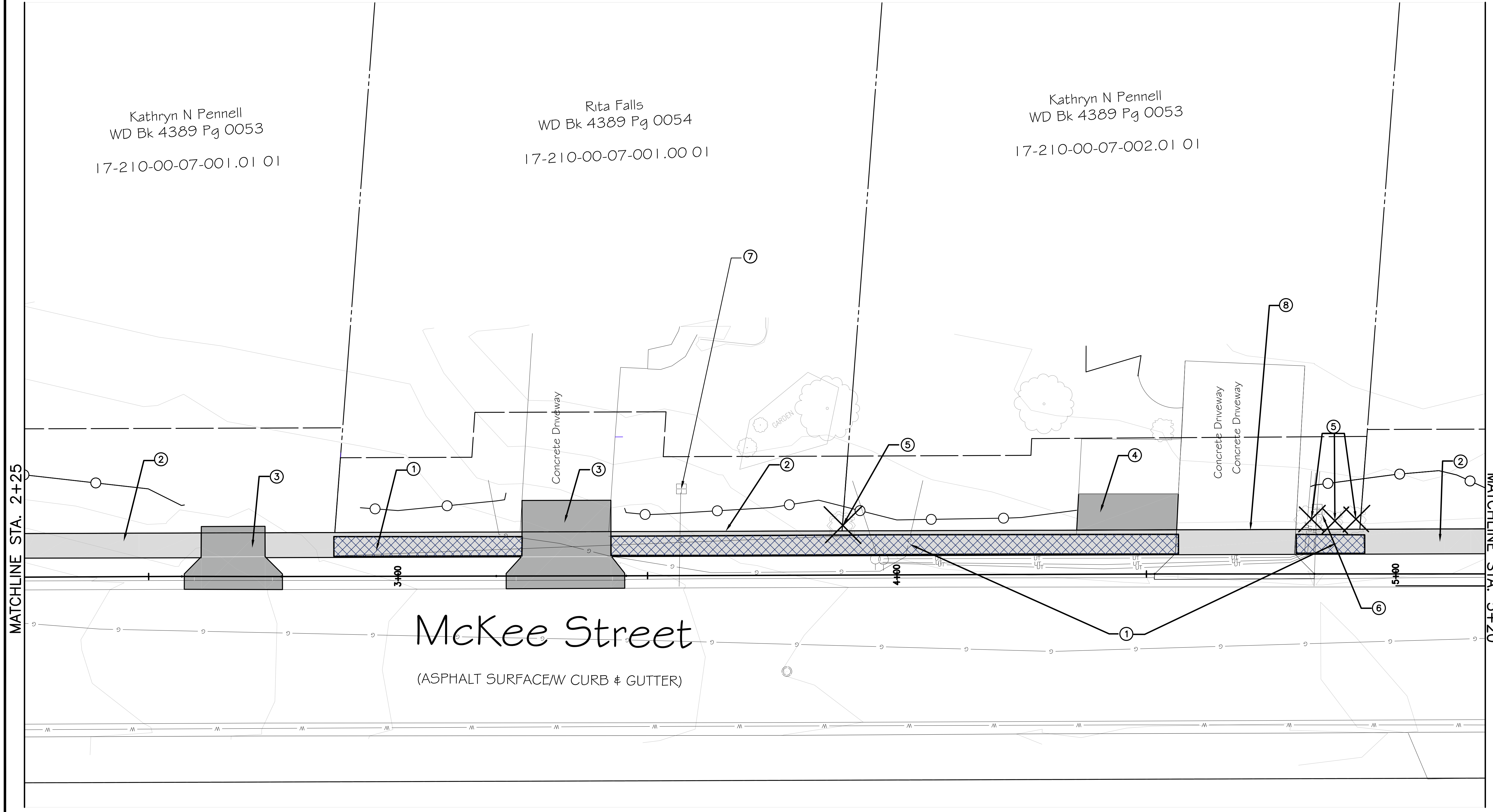
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MCKEE STREET SIDEWALK
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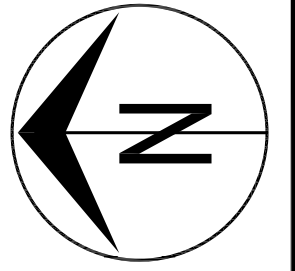
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2011 Orthophoto Source: Boone County Assessor

- ① CONSTRUCT 5' WIDE 4" THICK PCC SIDEWALK PER DETAIL 1
- ② REMOVE AND RECONSTRUCT RESIDENTIAL DRIVEWAY PER DETAIL 4
- ③ REMOVE TREE/BUSHES/STUMP
- ④ ADJUST VAVLE
- ⑤ REMOVE EXISTING INLET AND RECONSTRUCT SIDE OPENING INLET PER DETAIL 5 AND 7
- ⑥ REMOVE AND REPLACE FENCE
- ⑦ REPLACE STREET ENTRANCE
- ⑧ REMOVE AND RECONSTRUCT RESIDENTIAL SIDEWALK
- ⑨ REMOVE DRIVEWAY
- ⑩ CONSTRUCT NEW RESIDENTIAL DRIVEWAY PER DETAIL 4
- ⑪ ADA COMPLIANT SIDEWALK RAMP WITH DETECTABLE WARNING STRIP PER DETAIL 2 AND 3



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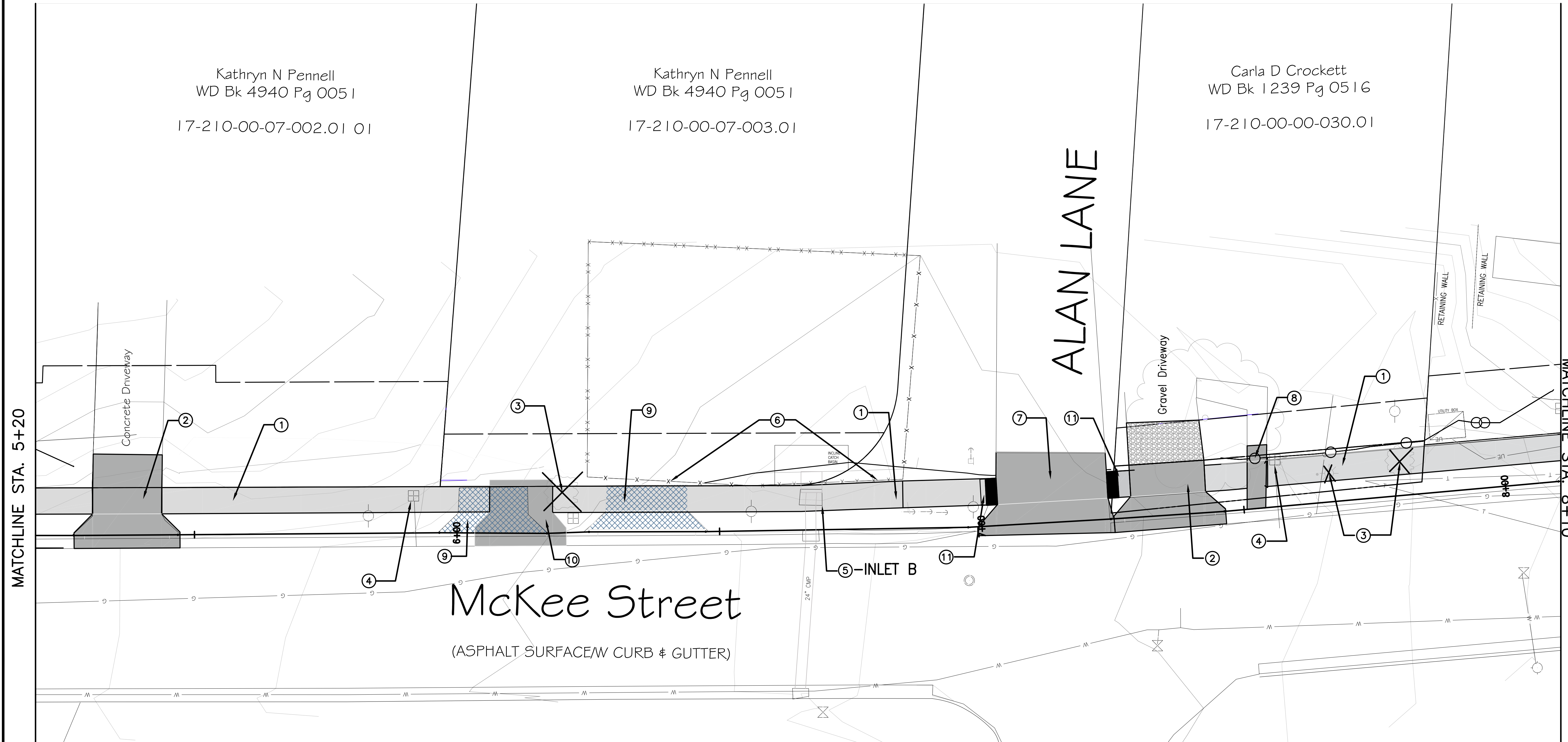
MCKEE STREET SIDEWALK
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City of Columbia, Missouri
Department of Public Works

David Allen Nichols
Registered Professional Engineer
E-24212

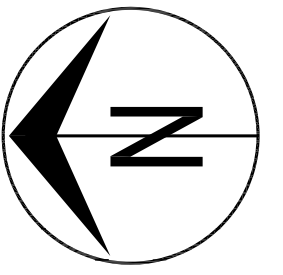
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4 of 17



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- ① CONSTRUCT 5' WIDE 4" THICK PCC SIDEWALK PER DETAIL 1
- ② REMOVE AND RECONSTRUCT RESIDENTIAL DRIVEWAY PER DETAIL 4
- ③ REMOVE TREE/BUSHES/STUMP
- ④ ADJUST VAVLE
- ⑤ REMOVE DRIVEWAY



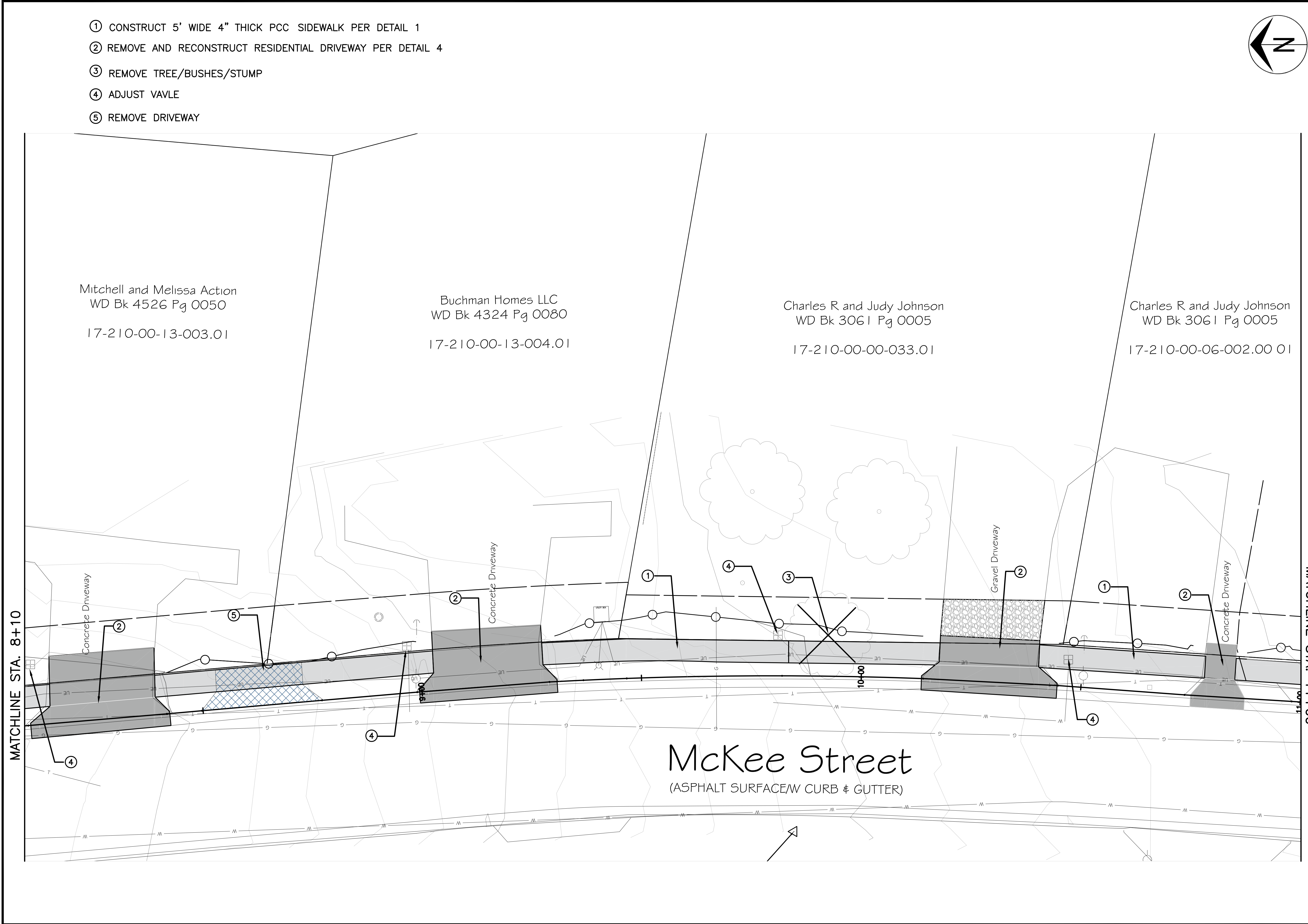
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MCKEE STREET SIDEWALK
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City of Columbia, Missouri
Department of Public Works

David Allen Nichols
Registered Professional Engineer
E-24212

File No. 00712
Scale: 1" = 10'
Date: 05/24/2019
Des. C.N.S.
Dwn. E.M.F.
Chk. A.A.A.



Mitchell and Melissa Action
WD Bk 4526 Pg 0050
17-210-00-13-003.01

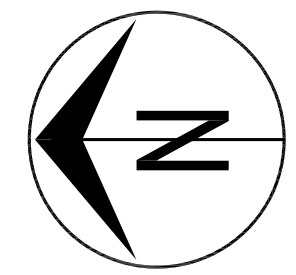
Buchman Homes LLC
WD Bk 4324 Pg 0080
17-210-00-13-004.01

Charles R and Judy Johnson
WD Bk 3061 Pg 0005
17-210-00-00-033.01

Charles R and Judy Johnson
WD Bk 3061 Pg 0005
17-210-00-06-002.00 01

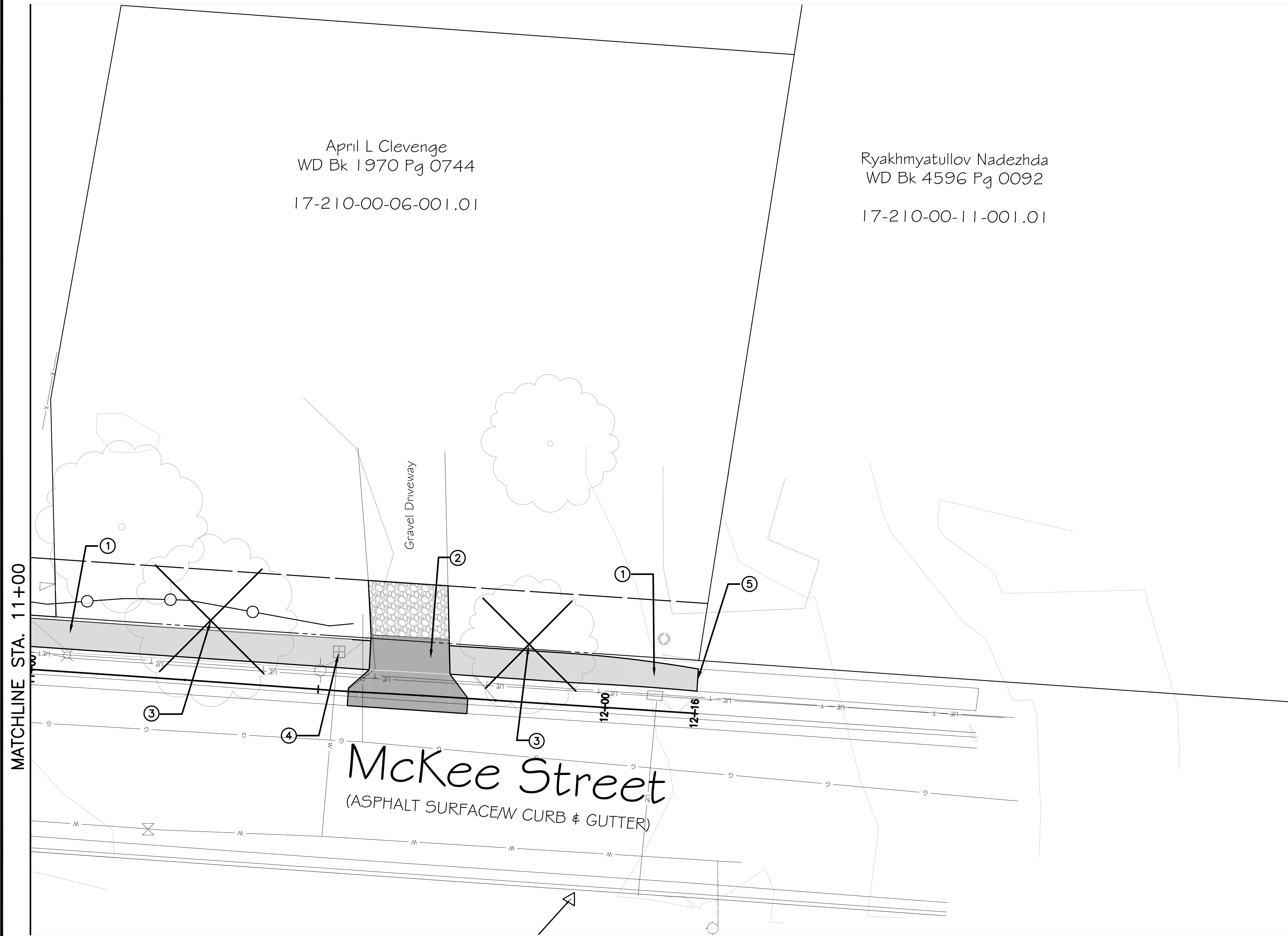
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- ① CONSTRUCT 5' WIDE 4" THICK PCC SIDEWALK PER DETAIL 1
- ② REMOVE AND RECONSTRUCT RESIDENTIAL DRIVEWAY PER DETAIL 4
- ③ REMOVE TREE/BUSHES
- ④ ADJUST VAVLE
- ⑤ TRANSITION NEW SIDEWALK TO EXISTING SIDEWALK. END OF PROJECT



April L Clevenge
 WD Bk 1970 Pg 0744
 17-210-00-06-001.01

Ryakhmyatullof Nadezhda
 WD Bk 4596 Pg 0092
 17-210-00-11-001.01



MATCHLINE STA. 11+00

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MCKEE STREET SIDEWALK
 Plan Sheet

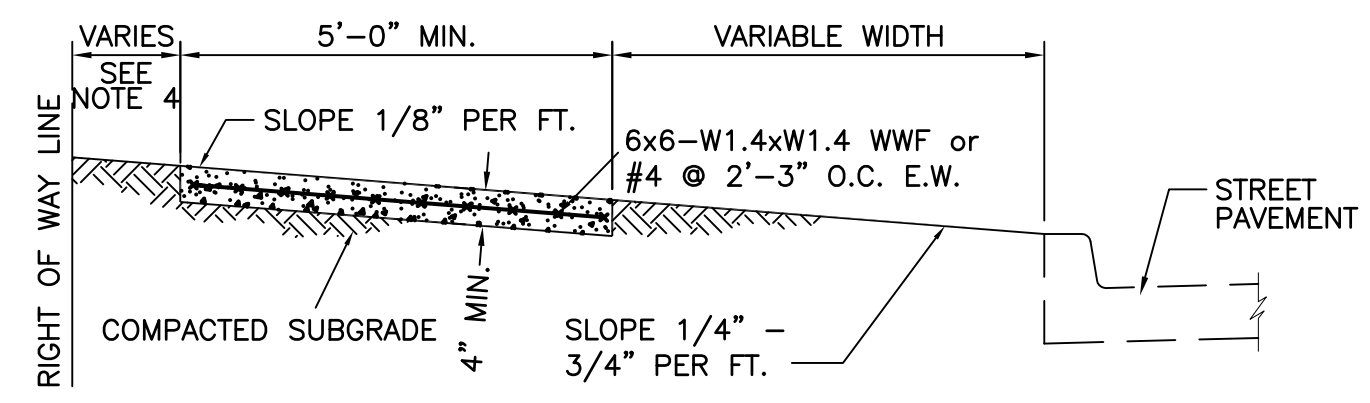
City of Columbia, Missouri
 Department of Public Works

David Allen Nichols
 Registered Professional Engineer
 E-24212

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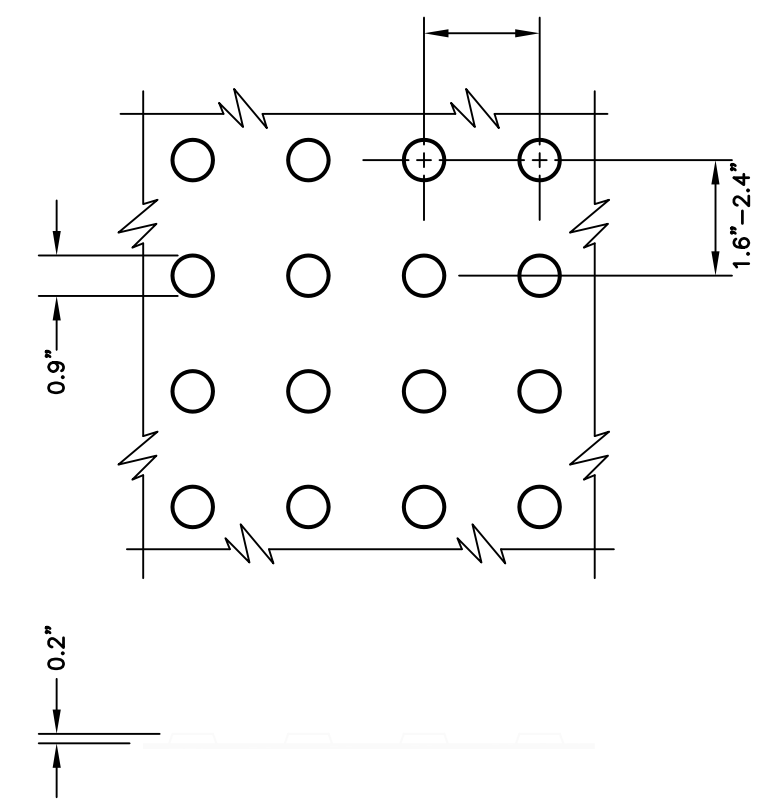
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2011 Orthophoto Source: Boone County Assessor



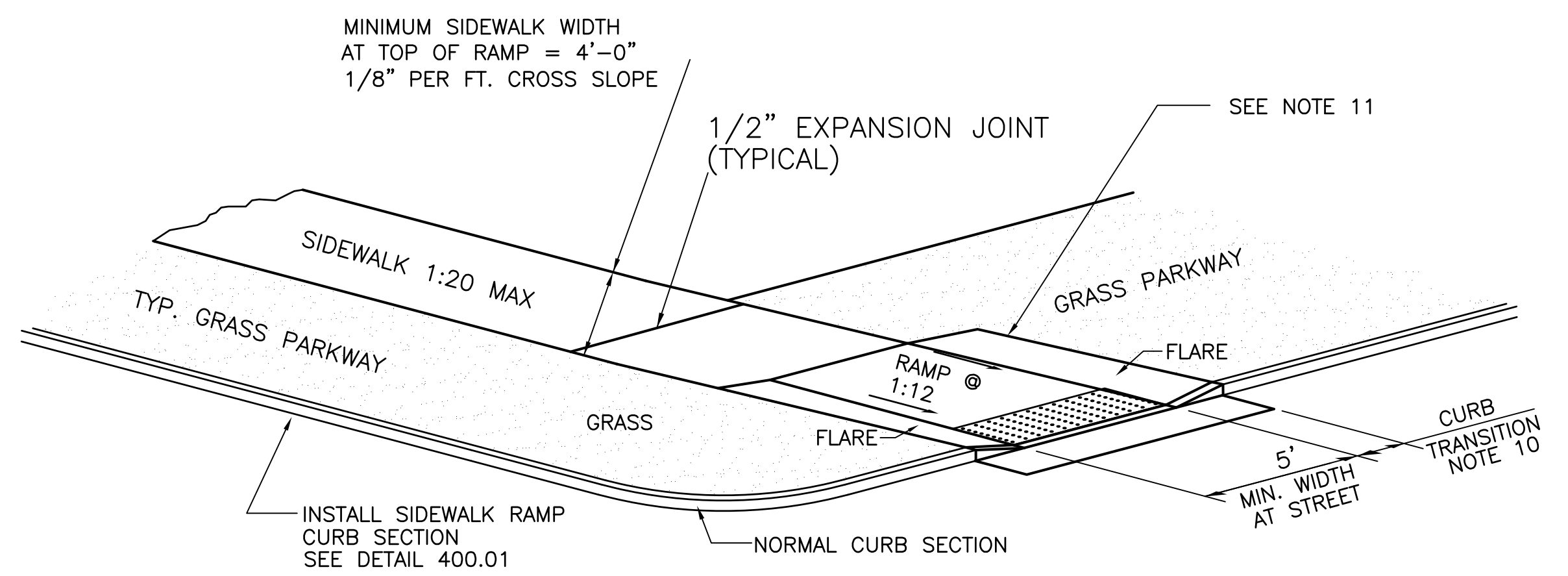
- NOTE:
1. SIDEWALK SHALL BE 4" THICK CLASS A CONCRETE.
 2. INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, DRIVEWAY APPROACHES, OR EVERY 150'.
 3. INSTALL TRANSVERSE SAW JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
 4. STANDARD SIDEWALK PLACEMENT IS 12" FROM RIGHT OF WAY LINE.
 5. NO STEEL TO BE PLACED THROUGH EXPANSION JOINT.
 6. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.00%.

DETAIL 1: SIDEWALK WITH GRASS PARKWAY
(NOT TO SCALE)



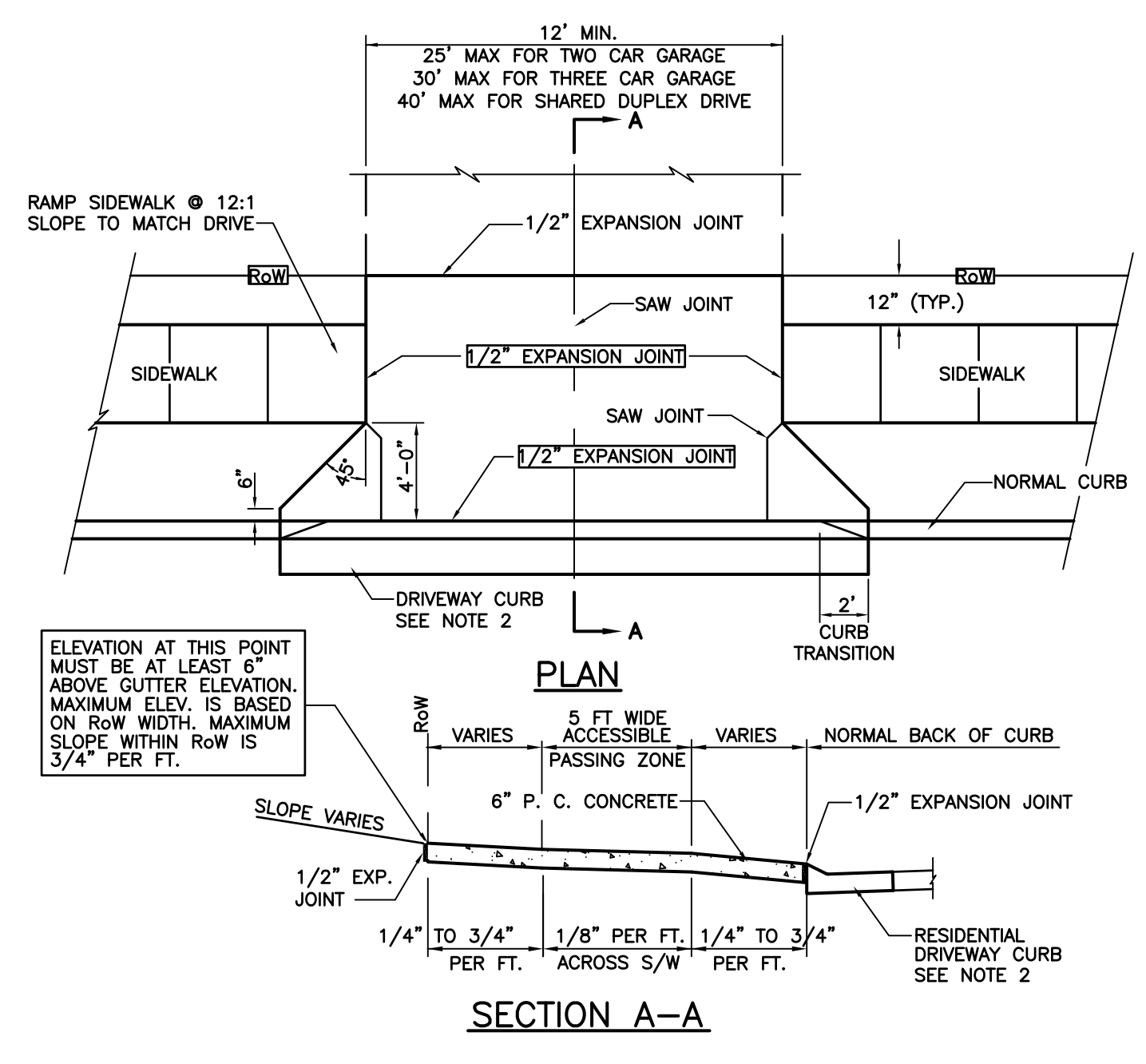
- NOTE:
1. DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9", A HEIGHT OF NOMINAL 0.2", AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35", AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, ACHIEVED BY THE INSTALLATION OF ADA SOLUTIONS 2436 REPBR, 2448 REPBR, OR 2480 REPBR (OR APPROVED EQUAL) AND SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
 2. ADA SOLUTIONS 24RADREPBR OR APPROVED EQUAL TO BE USED WITH DETAIL 430.02, 432.02, AND 1000.08.
 3. STAMPED CONCRETE IS NOT AN APPROVED EQUAL.
 4. DOWNTOWN DETECTABLE WARNINGS MAY BE ADA 2004 COMPLIANT DETECTABLE WARNING PAVERS.
 5. DETECTABLE WARNING PLATS ARE TO BE COLONIAL OR BRICK RED IN COLOR OR APPROVED EQUAL.
 6. DETECTABLE WARNING SURFACES SHALL BE 24" WIDE AND EXTEND THE FULL LENGTH OF THE PUBLIC USE AREA.

DETAIL 2: DETECTABLE WARNING
(NOT TO SCALE)



- NOTE:
1. RAMP SHALL BE 6" THICK CLASS A CONCRETE WITH #4 BARS @ 12" O.C. E.W.
 2. EXPANSION JOINT SHALL BE 1/2" PREFORMED CORK OR BITUMINOUS EXPANSION JOINT MATERIAL.
 3. MAXIMUM RAMP CROSS SLOPE IS 2.00%.
 4. ALL SLOPES ARE MEASURED FROM THE HORIZONTAL.
 5. REPLACE STANDARD CURB SECTION WITH SIDEWALK RAMP CURB SECTION - DETAIL 400.01
 6. RAMP LENGTH IS DEPENDENT ON 1:12 MAX. SLOPE. USE FLATTER WHEN POSSIBLE.
 7. LANDING AREA AT TOP OF RAMP SHALL BE 4'-0" MIN WIDTH, CROSS SLOPE OF LANDING SHALL NOT EXCEED 2.00%, INCREASE SIDEWALK RADIUS TO OBTAIN MINIMUM 4'-0" LANDING.
 8. RAMP NOT APPLICABLE IF SIDEWALK AND PARKWAY WIDTH DOES NOT PROVIDE 4'-0" LANDING AT TOP OF RAMP.
 9. FLARES ARE REQUIRED AT RAMPS TO KEEP GRASS PARKWAY SLOPES IN CONFORMANCE WITH THE TYPICAL CROSS SECTION.
 10. CURB TRANSITION LENGTH IS DEPENDENT ON FLARE SLOPE
 11. IF RAMP EXTENDS INTO NORMAL SIDEWALK, FLARE SLOPE MUST NOT EXCEED 1:10. A LANDING IS REQUIRED, SEE NOTE 7.

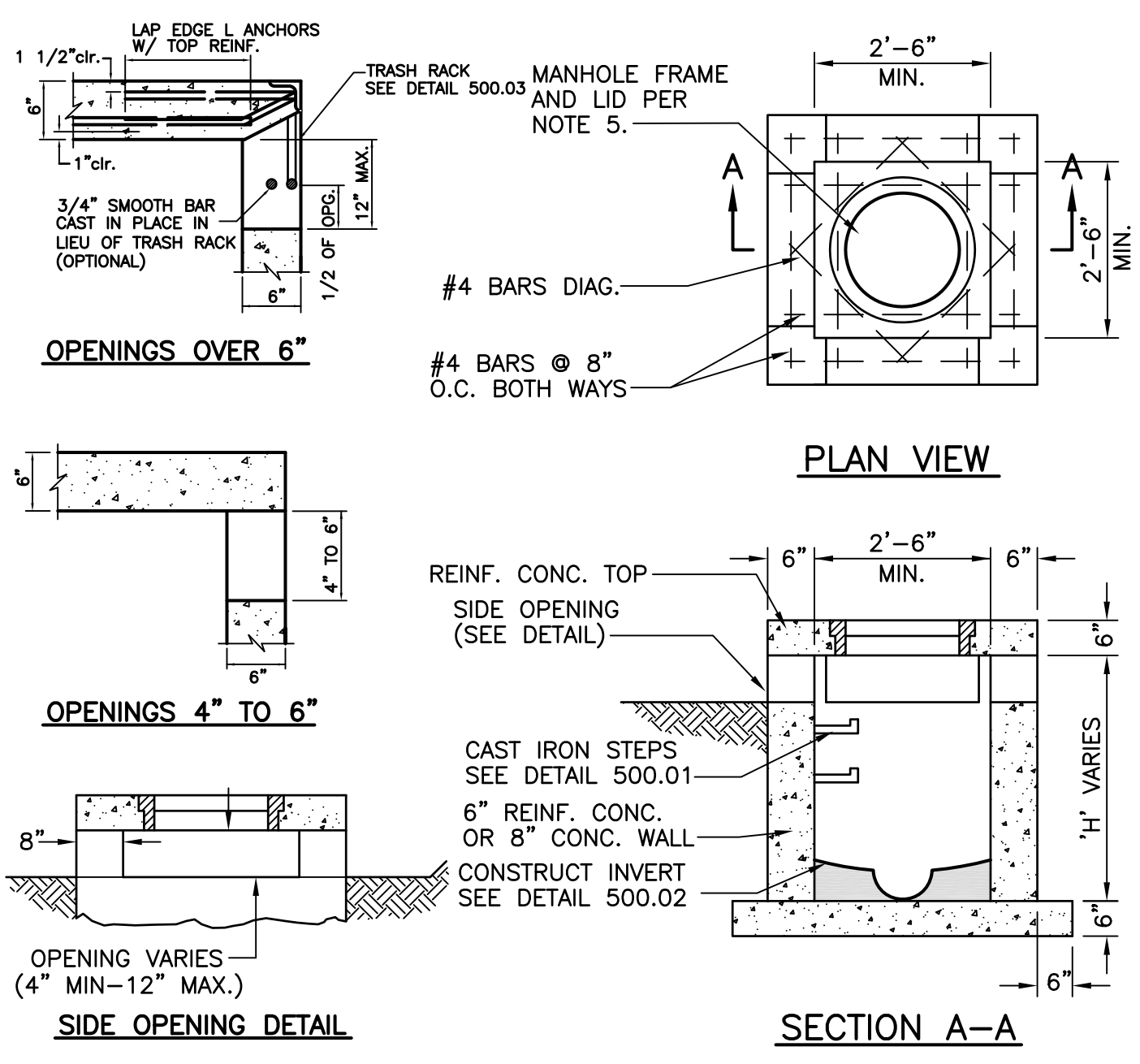
DETAIL 3: SIDEWALK RAMP WITH GRASS PARKWAY
(NOT TO SCALE)



ELEVATION AT THIS POINT MUST BE AT LEAST 6" ABOVE GUTTER ELEVATION. MAXIMUM ELEV. IS BASED ON ROW WIDTH. MAXIMUM SLOPE WITHIN ROW IS 3/4" PER FT.

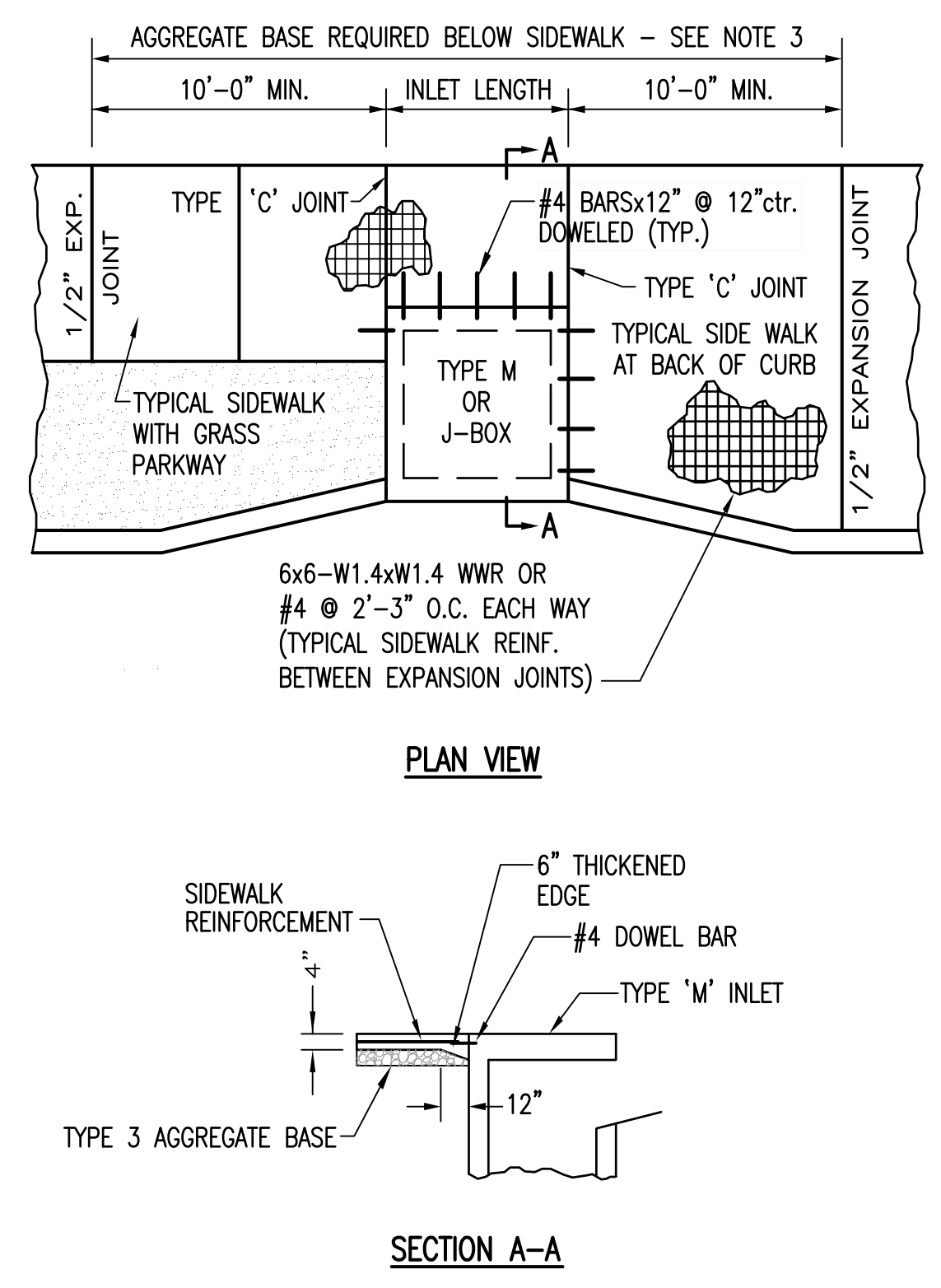
SECTION A-A

DETAIL 4: RESIDENTIAL DRIVEWAY
(NOT TO SCALE)



- NOTES:
1. CONCRETE SHALL BE CLASS E FOR BASES AND D FOR WALLS AND TOP.
 2. REINFORCING STEEL SHALL BE GRADE 60
 3. INSTALL WEEP HOLES AS PER DETAIL 500.04
 4. STRUCTURES WHERE H>8' SHALL BE REINFORCED CONCRETE (#4 BARS AT 12" CTRS, BOTH WAYS AND #4 BARS DIAGONAL AT PIPE OPENINGS)
 5. FRAME AND LID SHALL BE NEENAH R-1960-A (TYPE C LID), DEETER 1180, OR APPROVED EQUAL. SEE DETAIL 500.01 FOR PLACEMENT.
 6. SIDE OPENINGS TO BE ON ALL FOUR SIDES UNLESS NOTED OTHERWISE
 7. INSTALL TRASH RACK ON OPENINGS OVER 6" SEE DETAIL 500.03

DETAIL 5: SIDE OPENING INLET
(NOT TO SCALE)



- NOTES:
1. SIDEWALK SHALL BE 4" THICK MoDOT PAVEMENT CONCRETE
 2. REINFORCING STEEL SHALL BE GRADE 60
 3. 4" THICK PROPERLY PLACED TYPE 3 AGGREGATE BASE
 4. ALL DRILLED DOWEL BARS SHALL BE EXPOXIED PER MANUFACTURER'S INSTALL INSTRUCTIONS.

SECTION A-A

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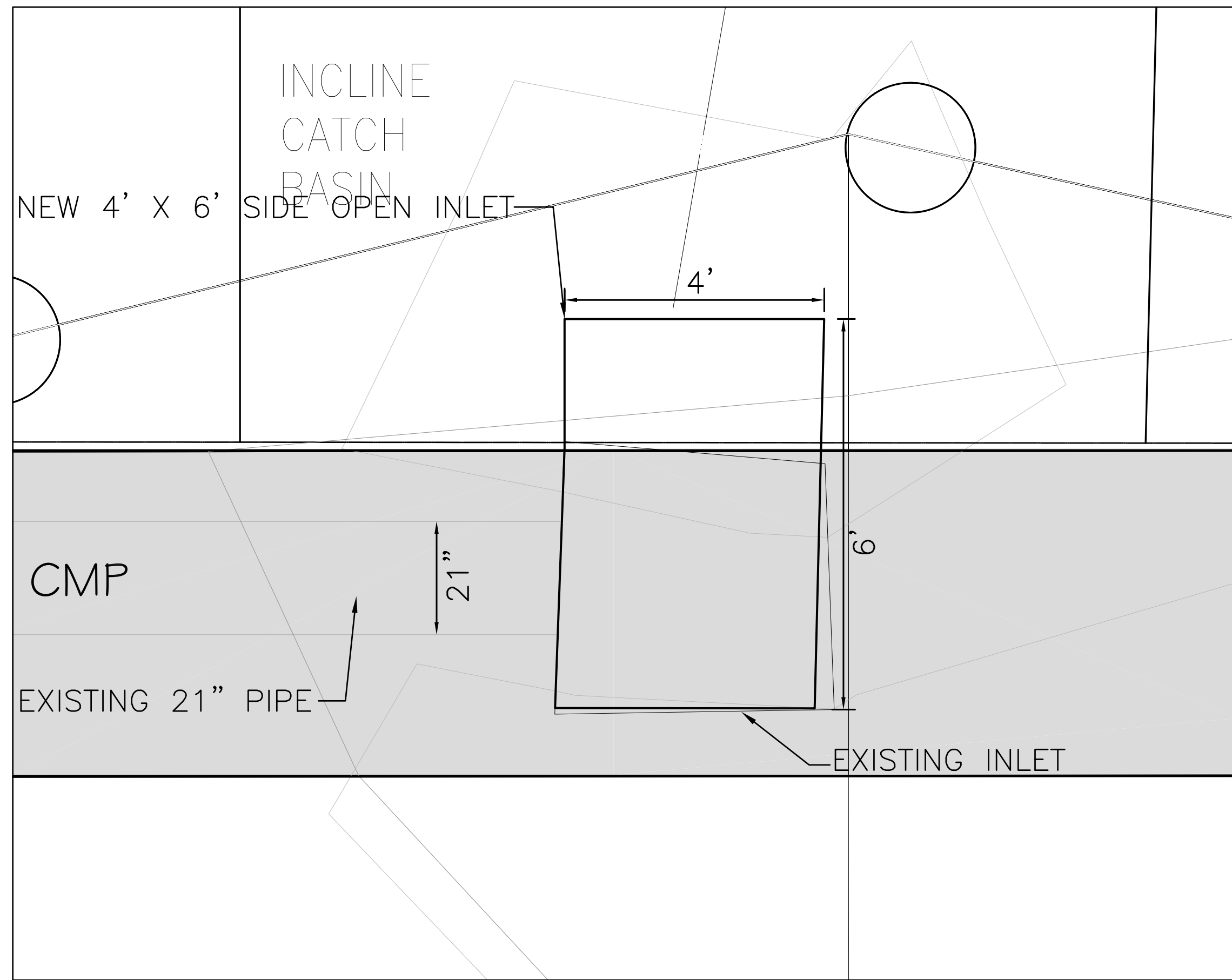
MCKEE STREET SIDEWALK
Detail Sheet

City of Columbia, Missouri
Department of Public Works

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| David Allen Nichols Registered Professional Engineer E-24212 |
| File No. 00712 |
| Scale: None |
| Date: 05/24/2019 |
| Des. C.N.S. |
| Dwn. E.M.F. |
| Chk. A.A.A. |

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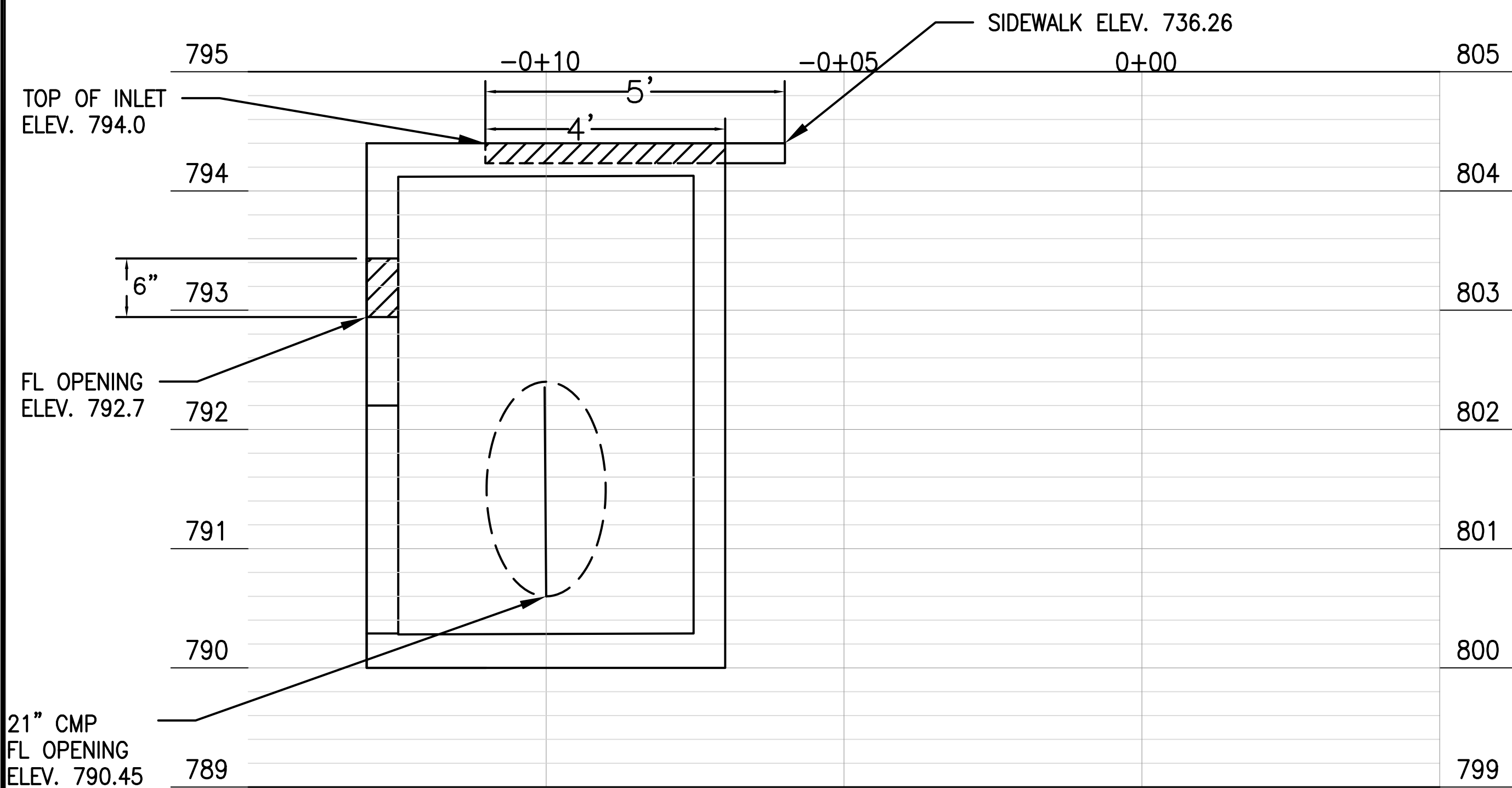
2011 Orthophoto Source: Boone County Assessor



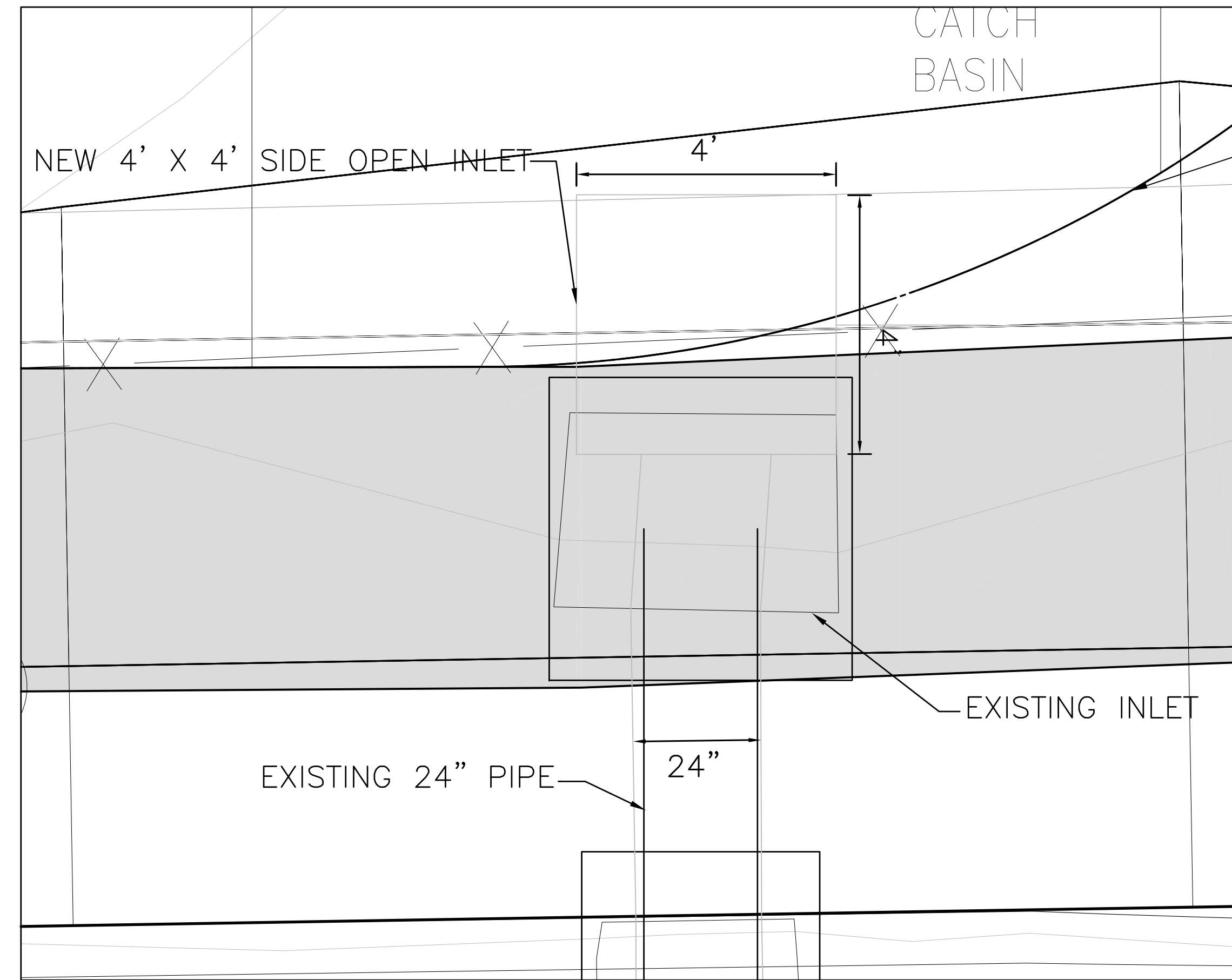
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| TOP OF INLET ELEVATION | 794.0 |
| SIDE OPENING FLOW LINE ELEVATION | 792.7 |
| PIPE FLOW LINE ELEVATION | 790.45 |

NOTES:

1. REMOVE EXISTING BOX AND REPLACE WITH 4'X6' SIDE OPEN INLET
2. CONTRACTOR TO VERIFY ELEVATIONS AND DIMENSIONS. FIELD ADJUSTMENT MAY BE NECESSARY



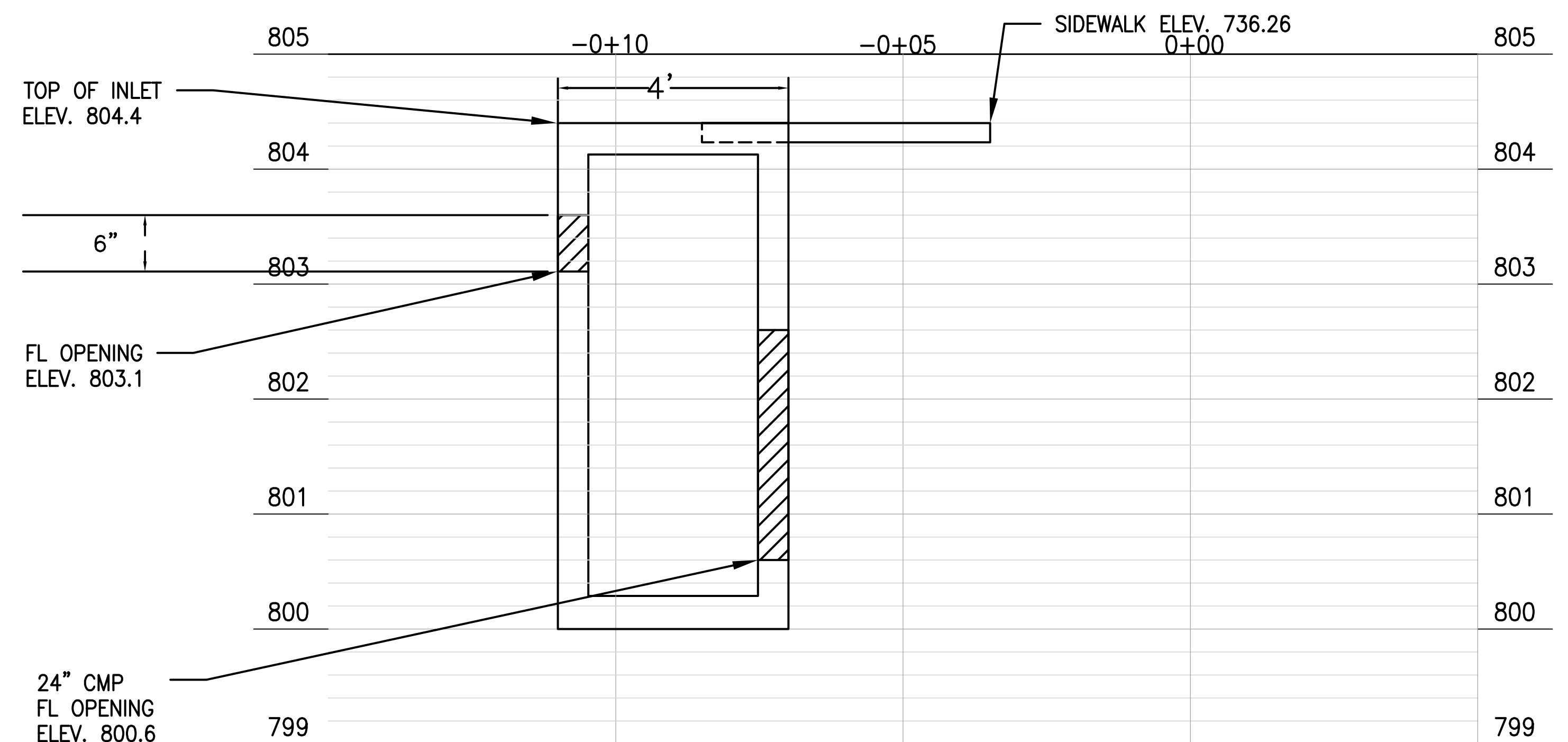
DETAIL 6: INLET A INFORMATION
(NOT TO SCALE)



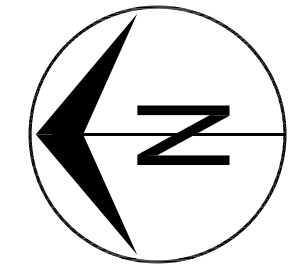
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| TOP OF INLET ELEVATION | 804.4 |
| SIDE OPENING FLOW LINE ELEVATION | 803.1 |
| PIPE FLOW LINE ELEVATION | 800.6 |

NOTES:

1. REMOVE EXISTING BOX AND REPLACE WITH 4'X4' SIDE OPEN INLET
2. CONTRACTOR TO VERIFY ELEVATIONS AND DIMENSIONS. FIELD ADJUSTMENT MAY BE NECESSARY



DETAIL 7: INLET B INFORMATION
(NOT TO SCALE)



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MCKEE STREET SIDEWALK
Stormwater Sheet

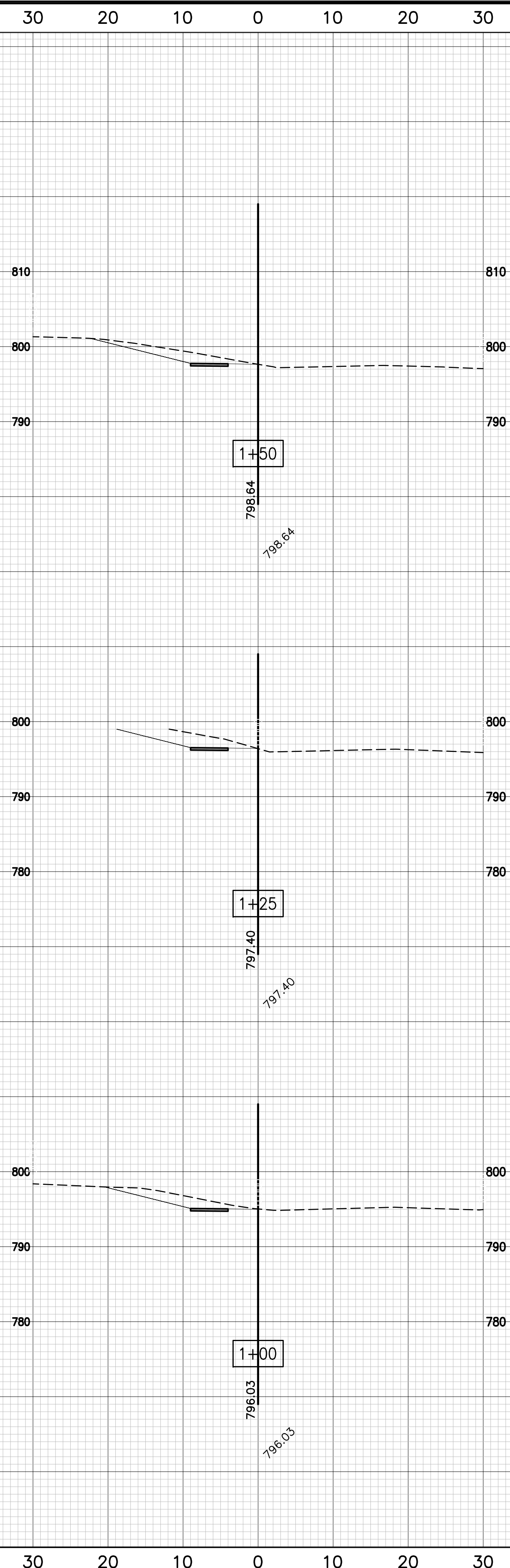
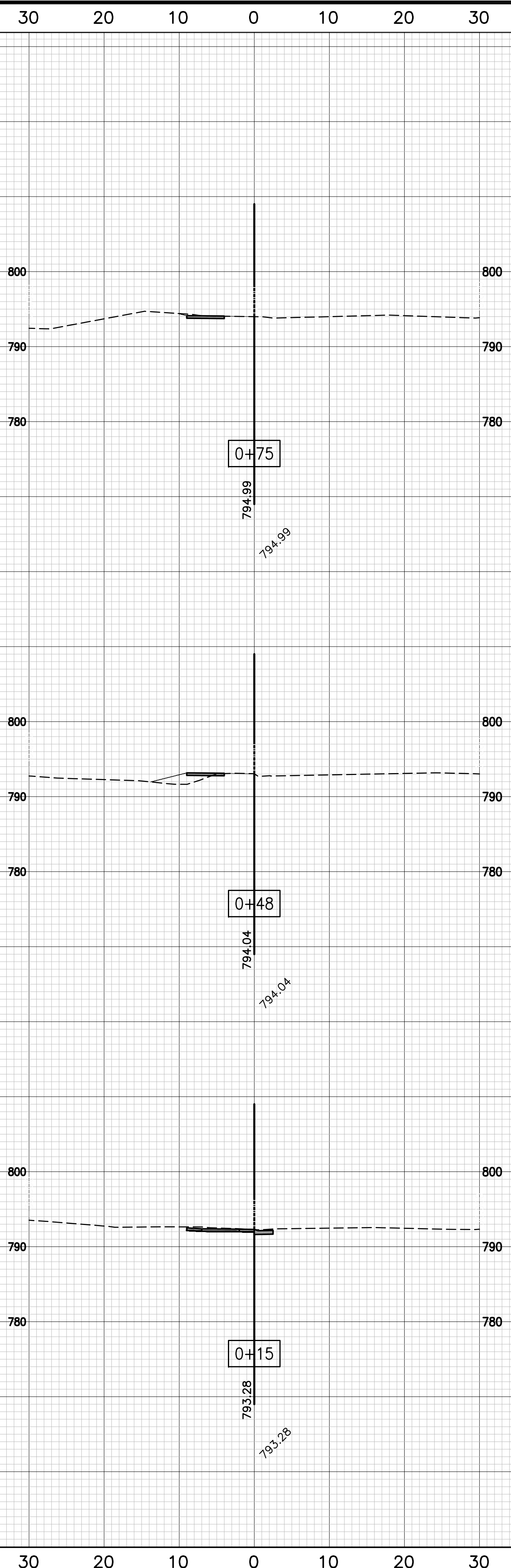
City of Columbia, Missouri

Department of Public Works

David Allen Nichols
Registered Professional Engineer
E-24212

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| Date: | 05/24/2019 |
| Des. | C.N.S. |
| Dwn. | E.M.F. |
| Chk. | A.A.A. |

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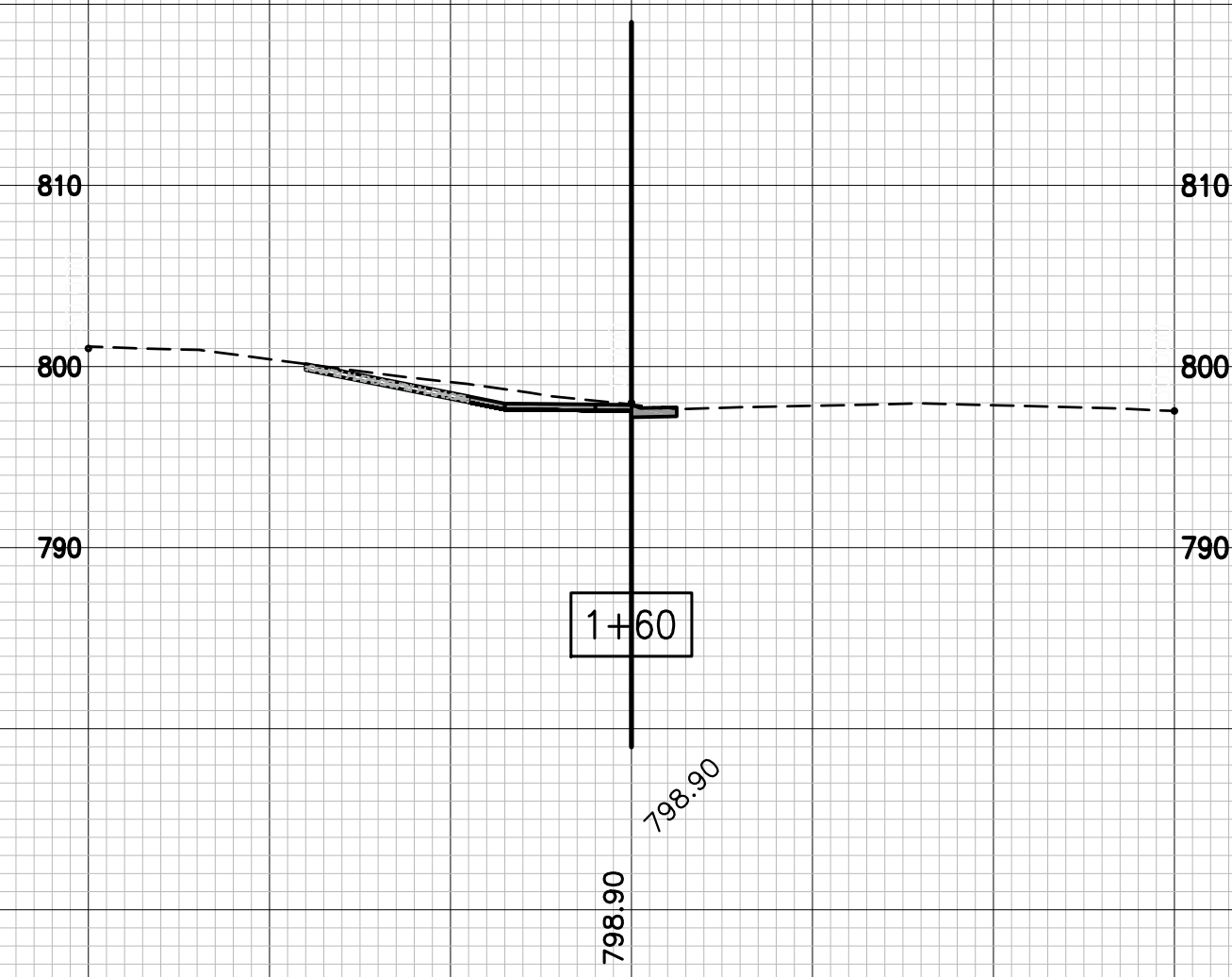
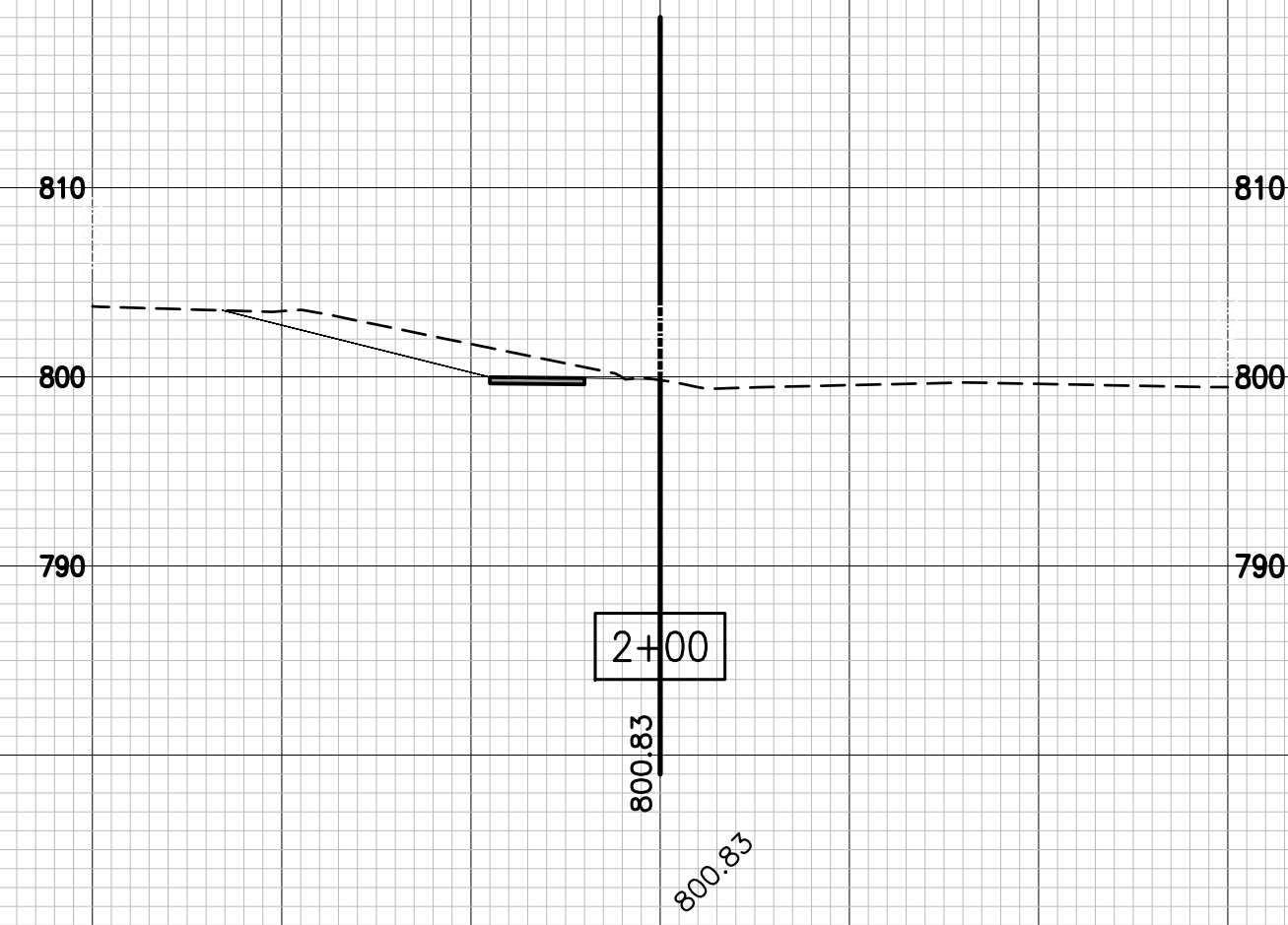
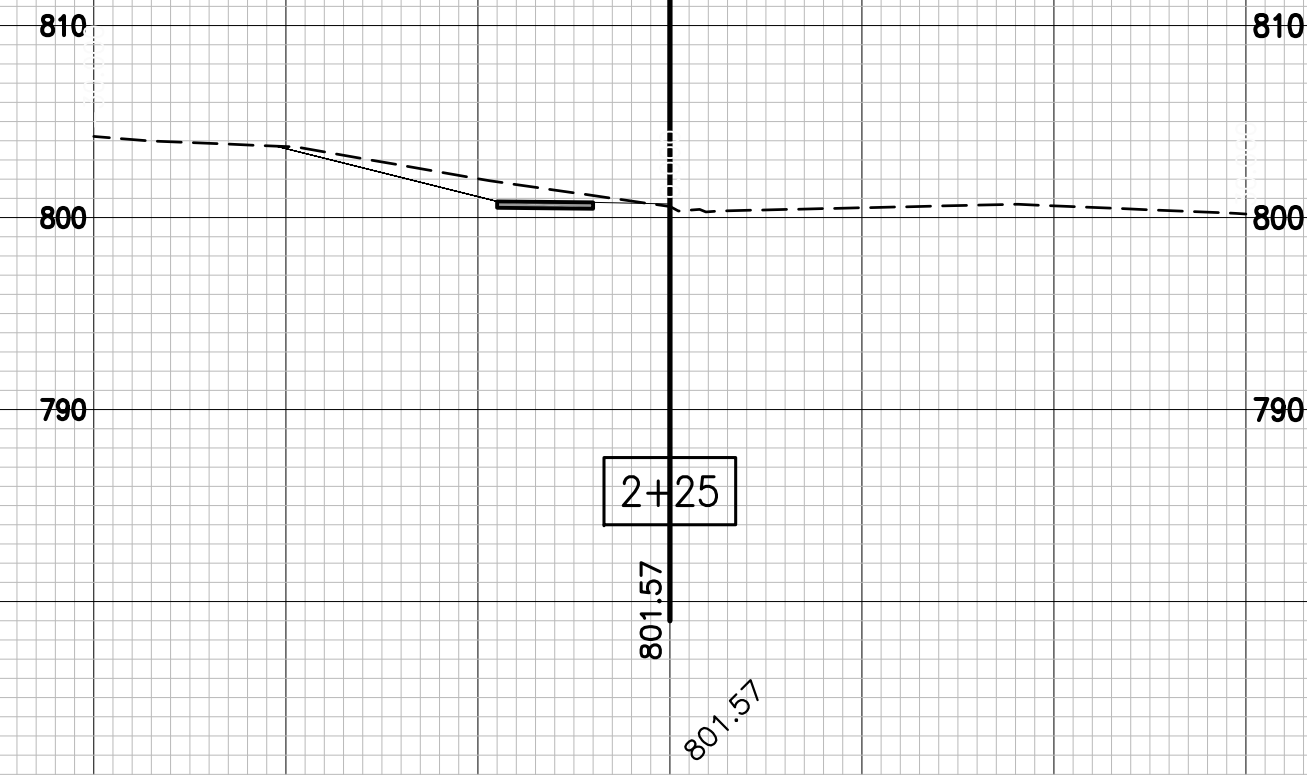
MCKEE STREET SIDEWALK
Cross Sections - Sta 0+15 to Sta 1+50

City of Columbia, Missouri
Department of Public Works

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| File No. | 00712 |
| Scale: | 1"=10' |
| Date: | 05/24/2019 |
| Des. | E.M.F. |
| Dwn. | C.N.S. |
| Chk. | A.A.A. |

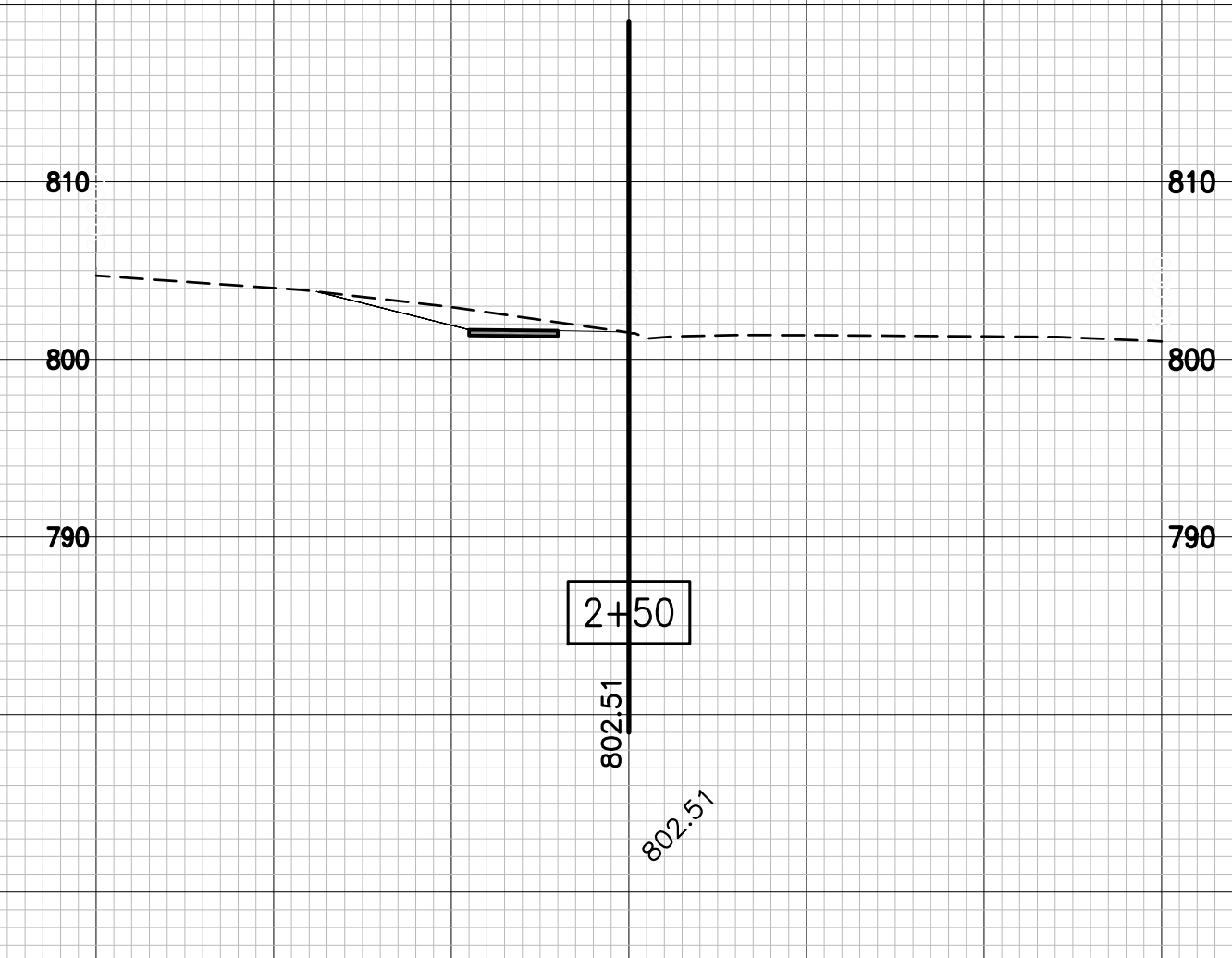
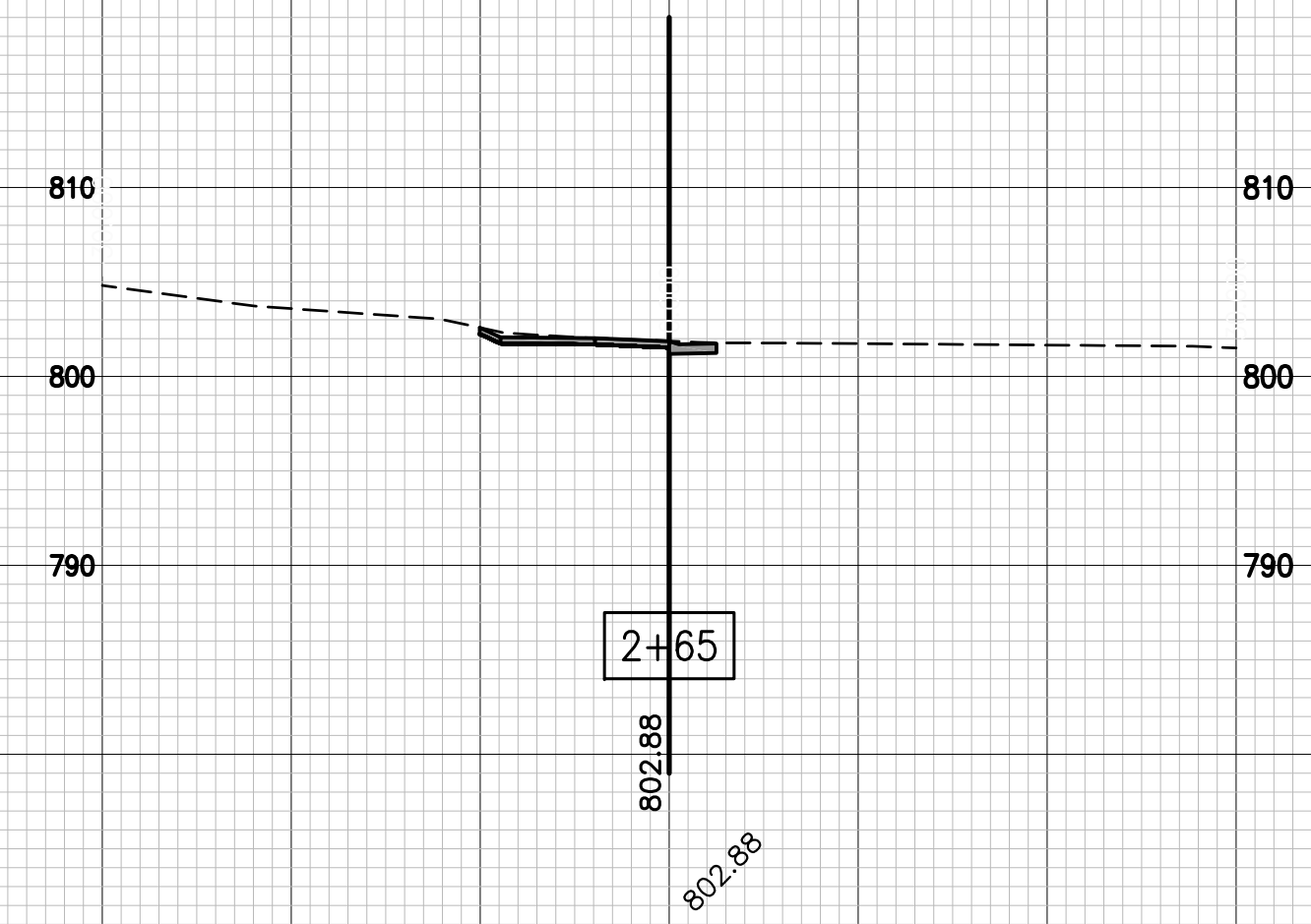
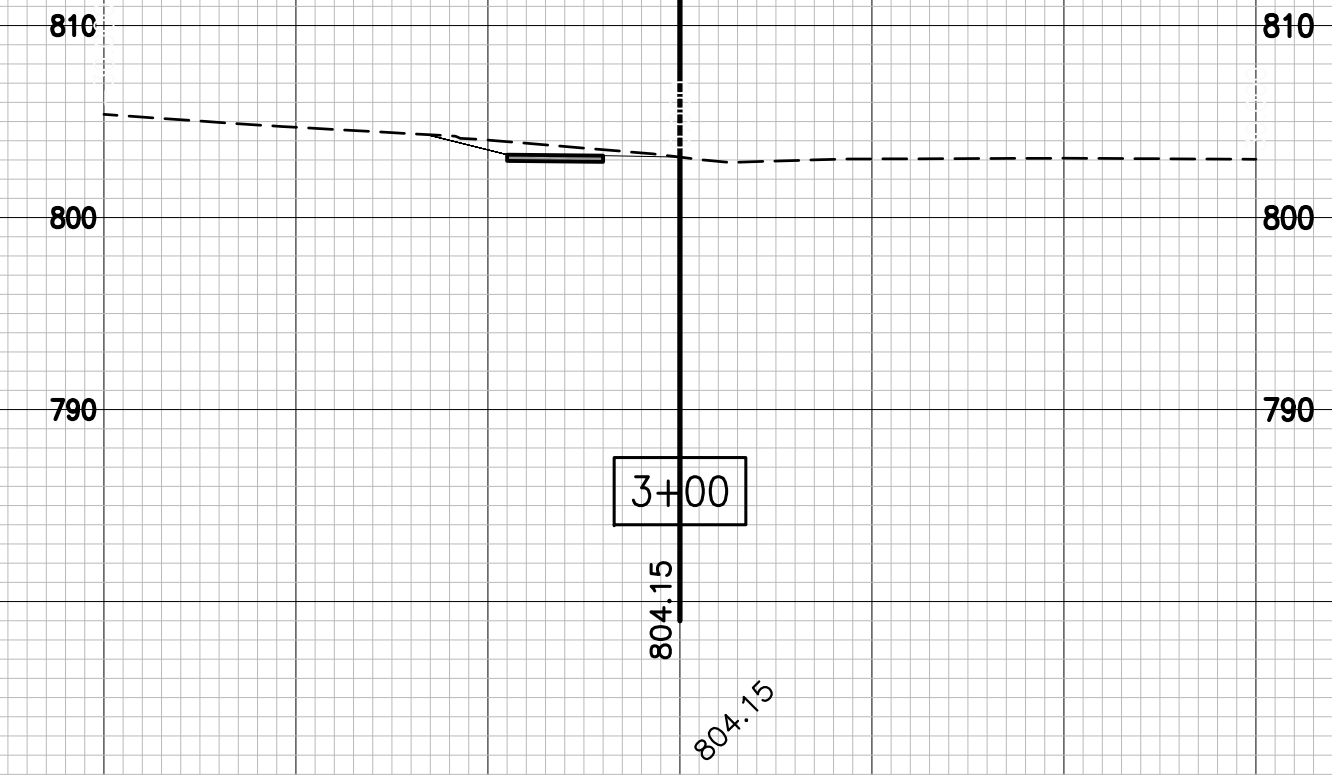
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MCKEE STREET SIDEWALK
Cross Sections - Sta 1+60 to Sta 3+00

City of Columbia, Missouri

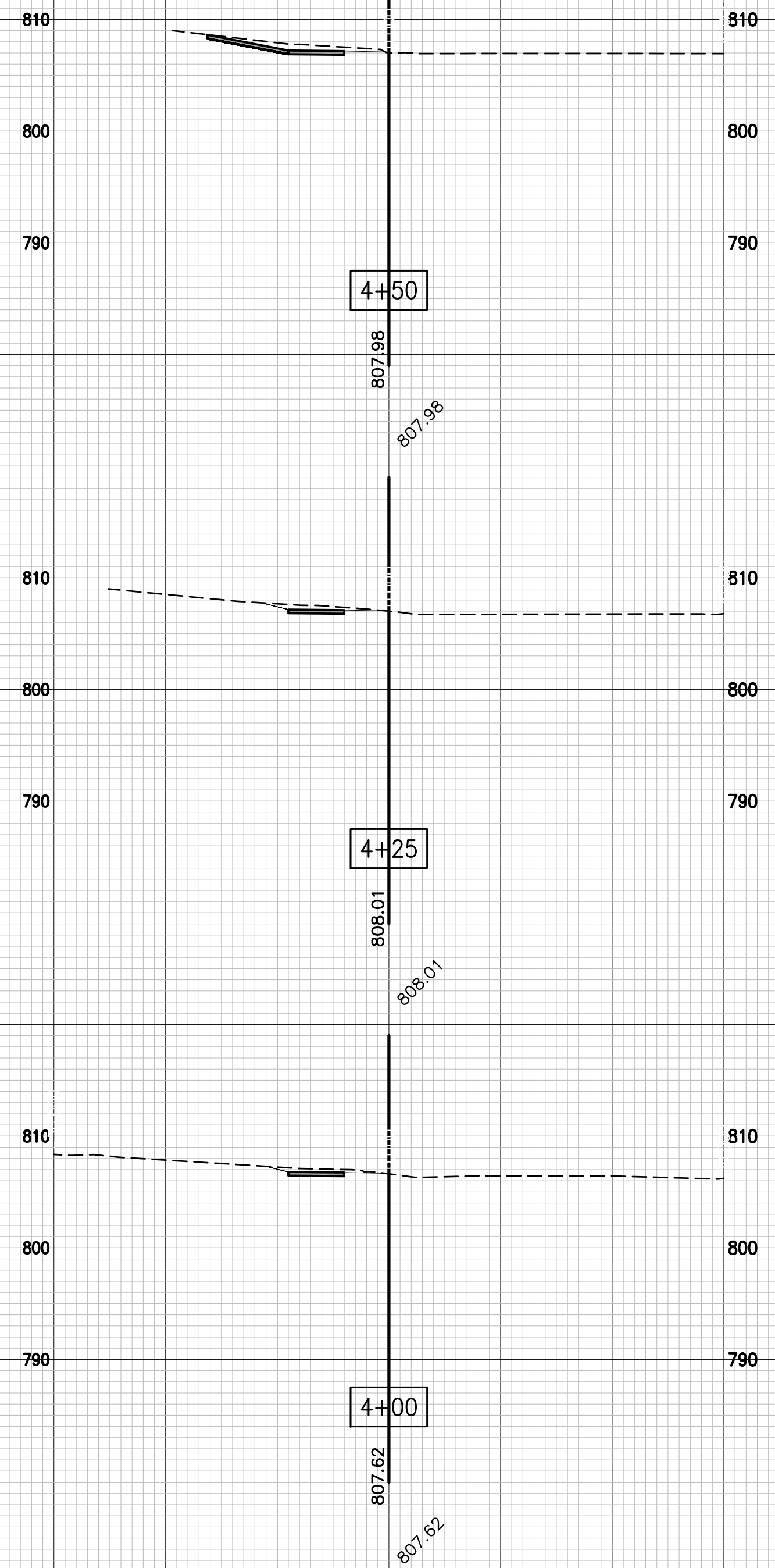
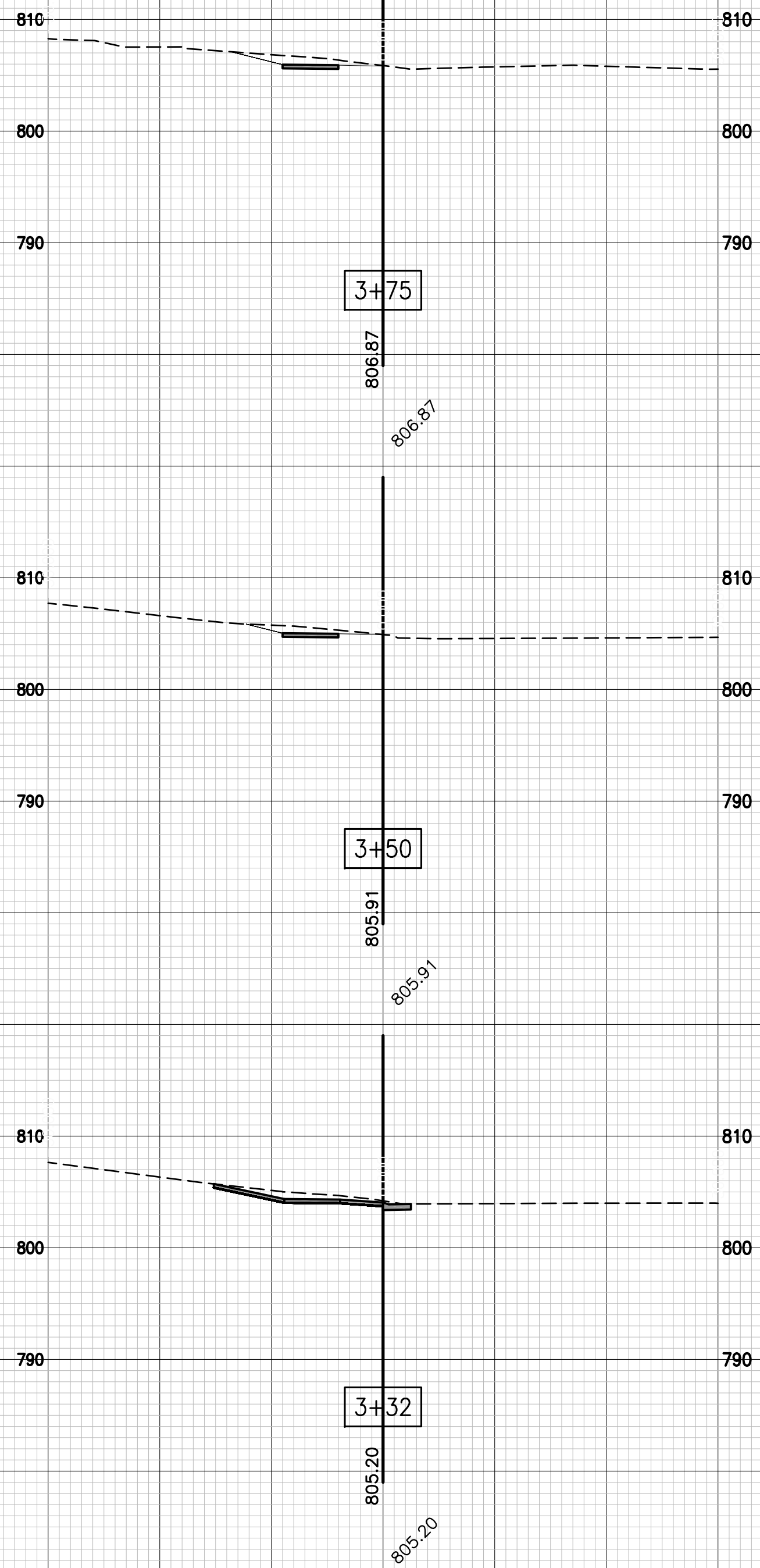
Department of Public Works

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| File No. | 00712 |
| Scale: | 1"=10' |
| Date: | 05/24/2019 |
| Des. | E.M.F. |
| Dwn. | C.N.S. |
| Chk. | A.A.A. |

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No. By Date Revision

MCKEE STREET SIDEWALK
Cross Sections - Sta 3+32 to Sta 4+50

City of Columbia, Missouri

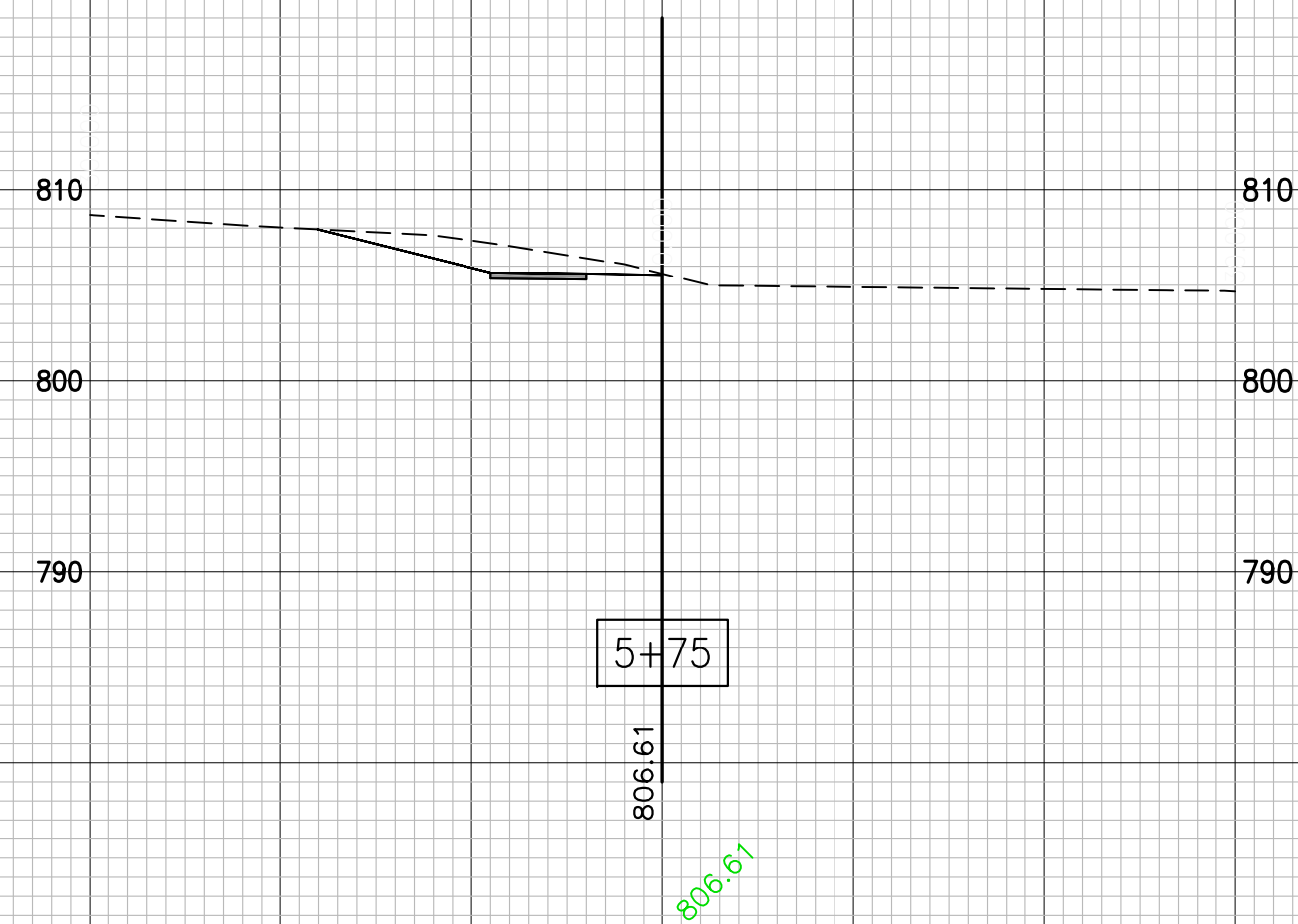
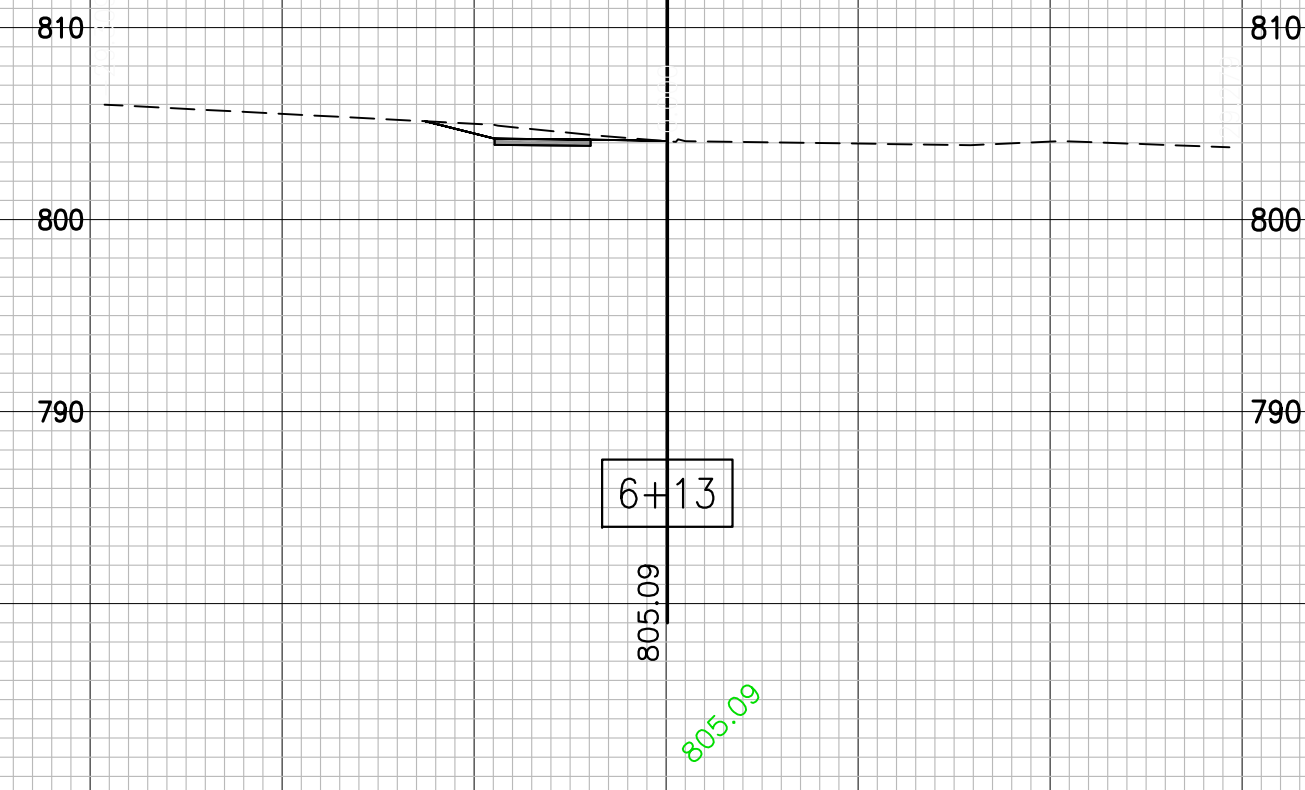
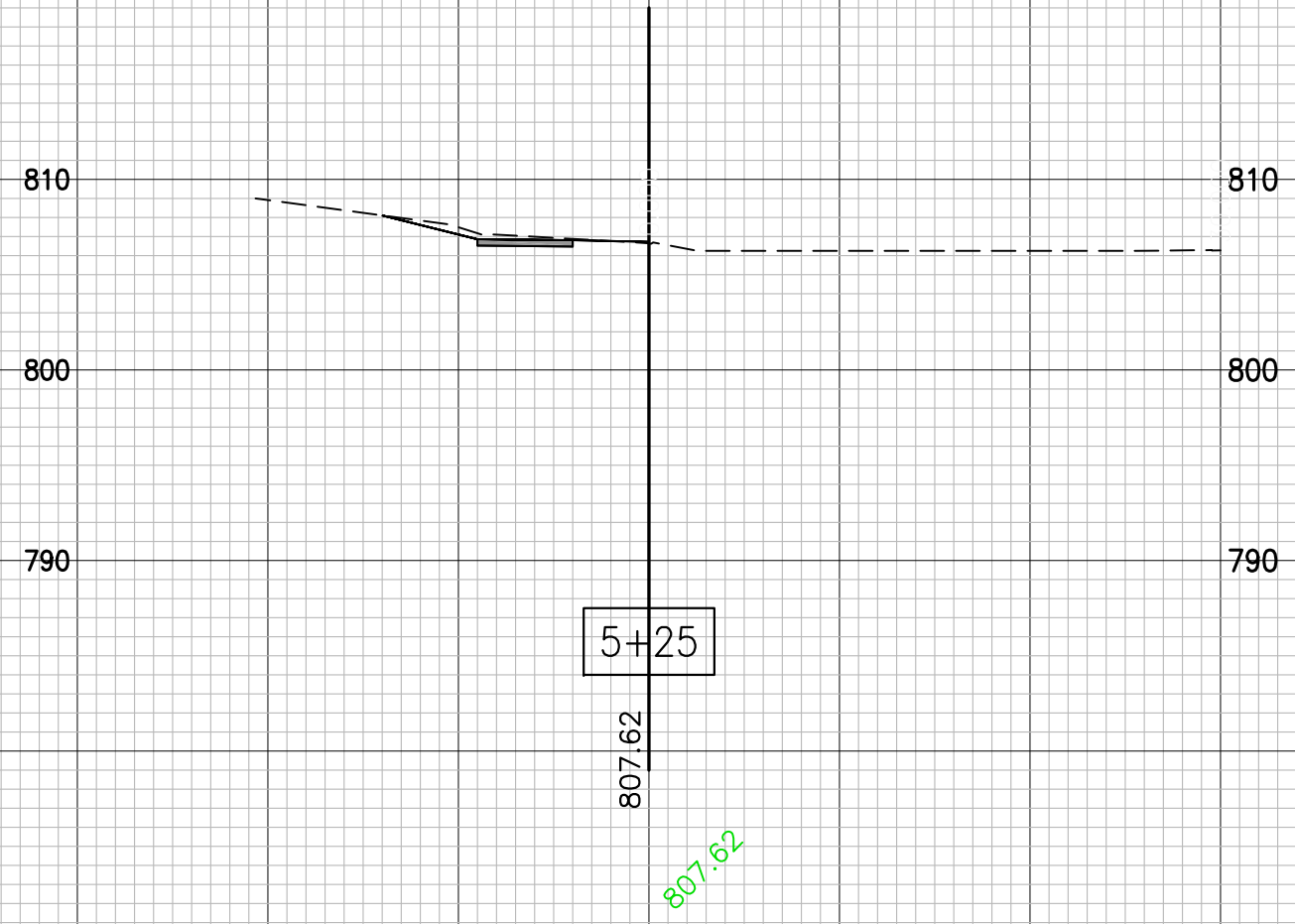
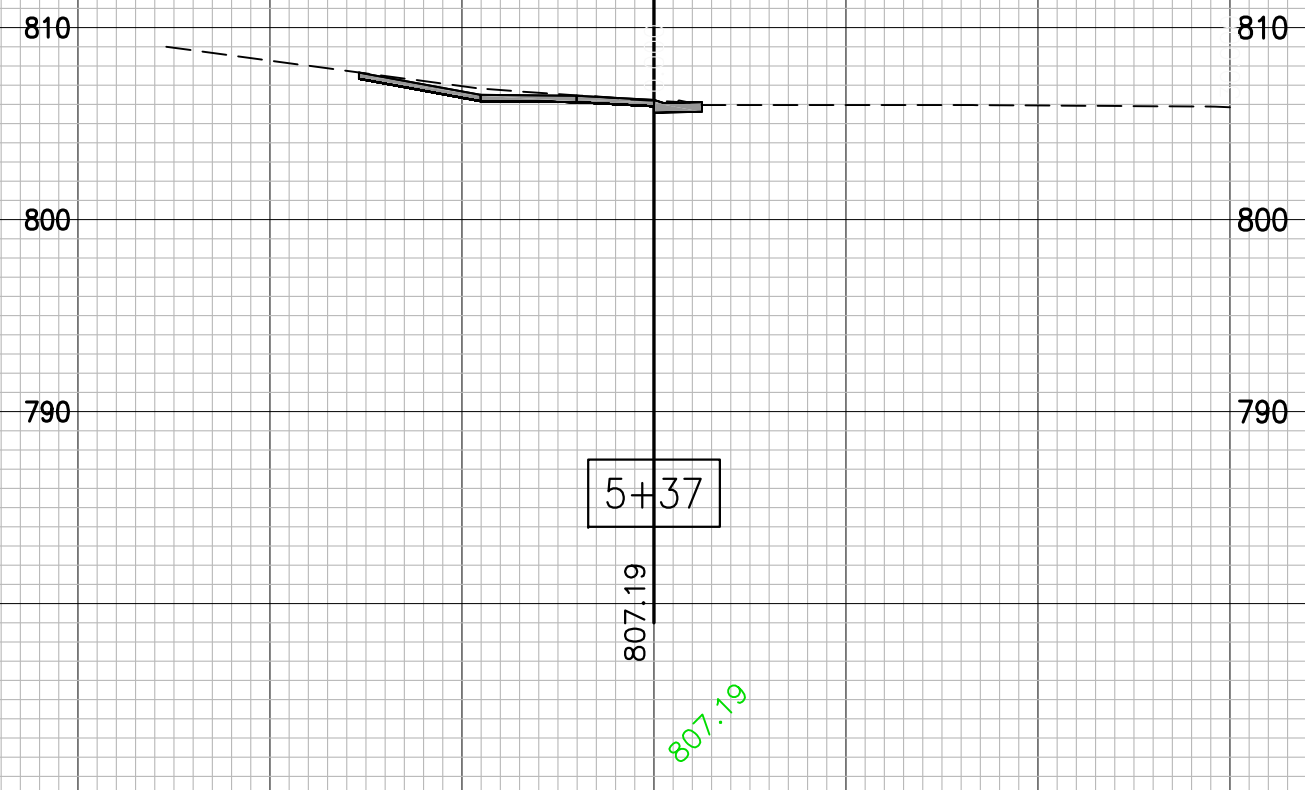
Department of Public Works

File No. 00712
Scale: 1"=10'
Date: 05/24/2019
Des. E.M.F.
Dwn. C.N.S.
Chk. A.A.A.

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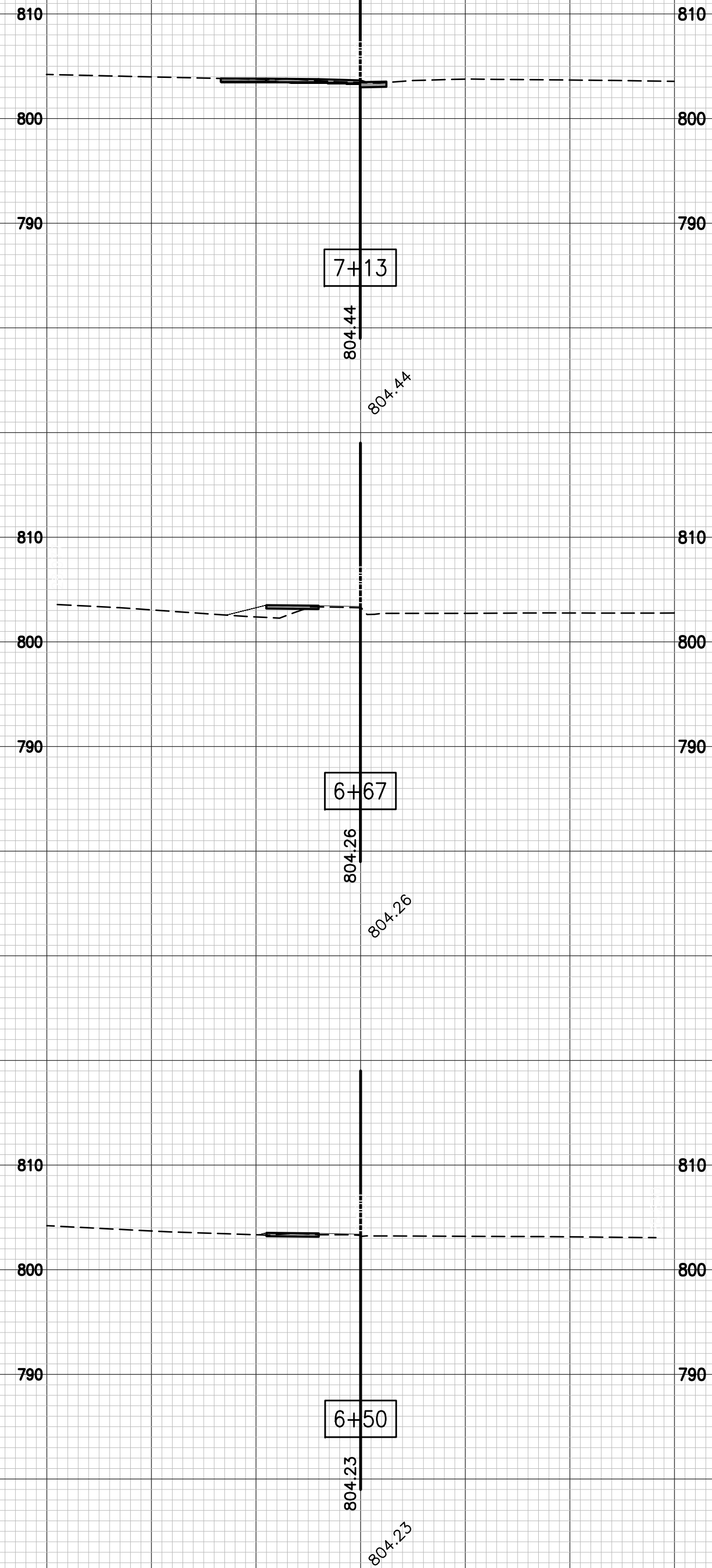
MCKEE STREET SIDEWALK
Cross Sections - Sta 5+00 to Sta 6+13

City of Columbia, Missouri
Department of Public Works

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| File No. | 00712 |
| Scale: | 1"=10' |
| Date: | 05/24/2019 |
| Des. | E.M.F. |
| Dwn. | C.N.S. |
| Chk. | A.A.A. |

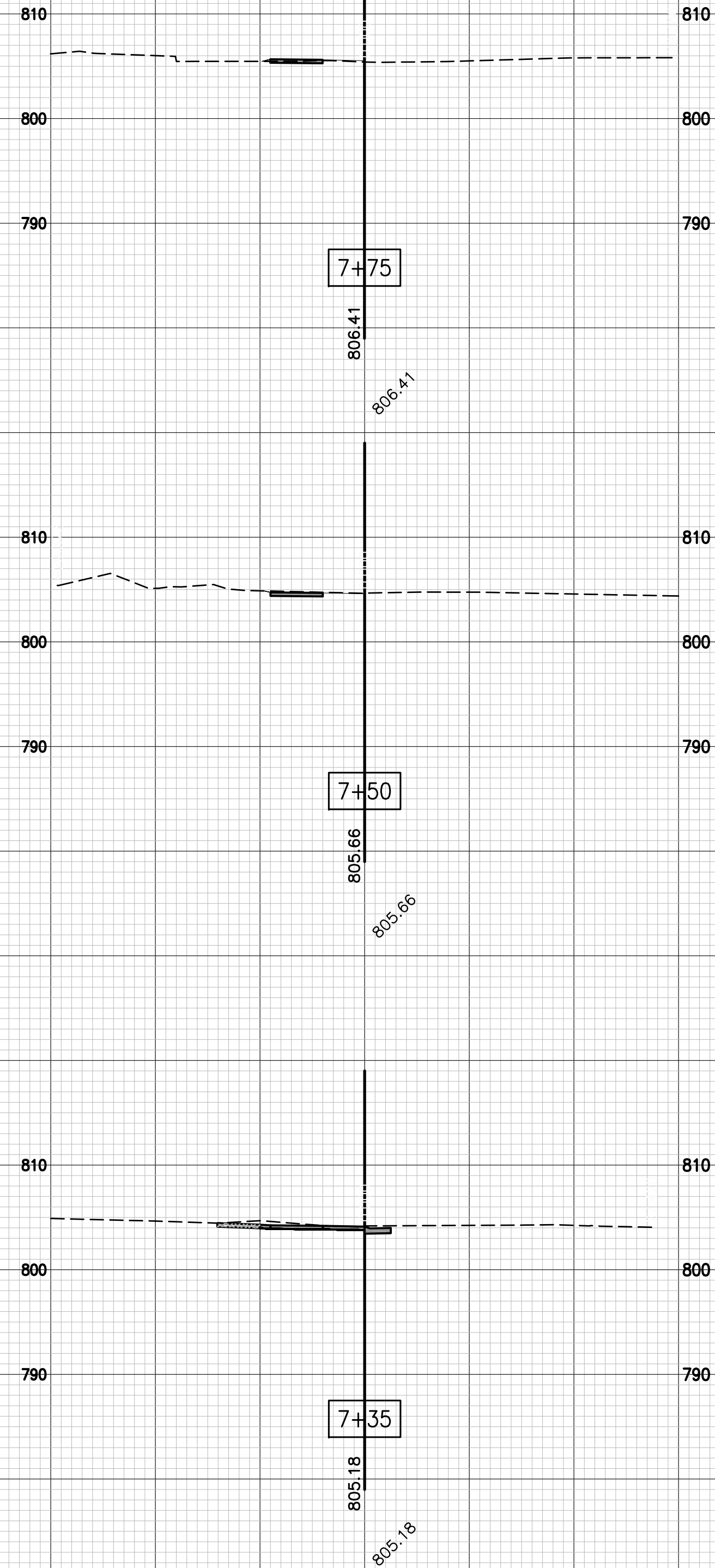
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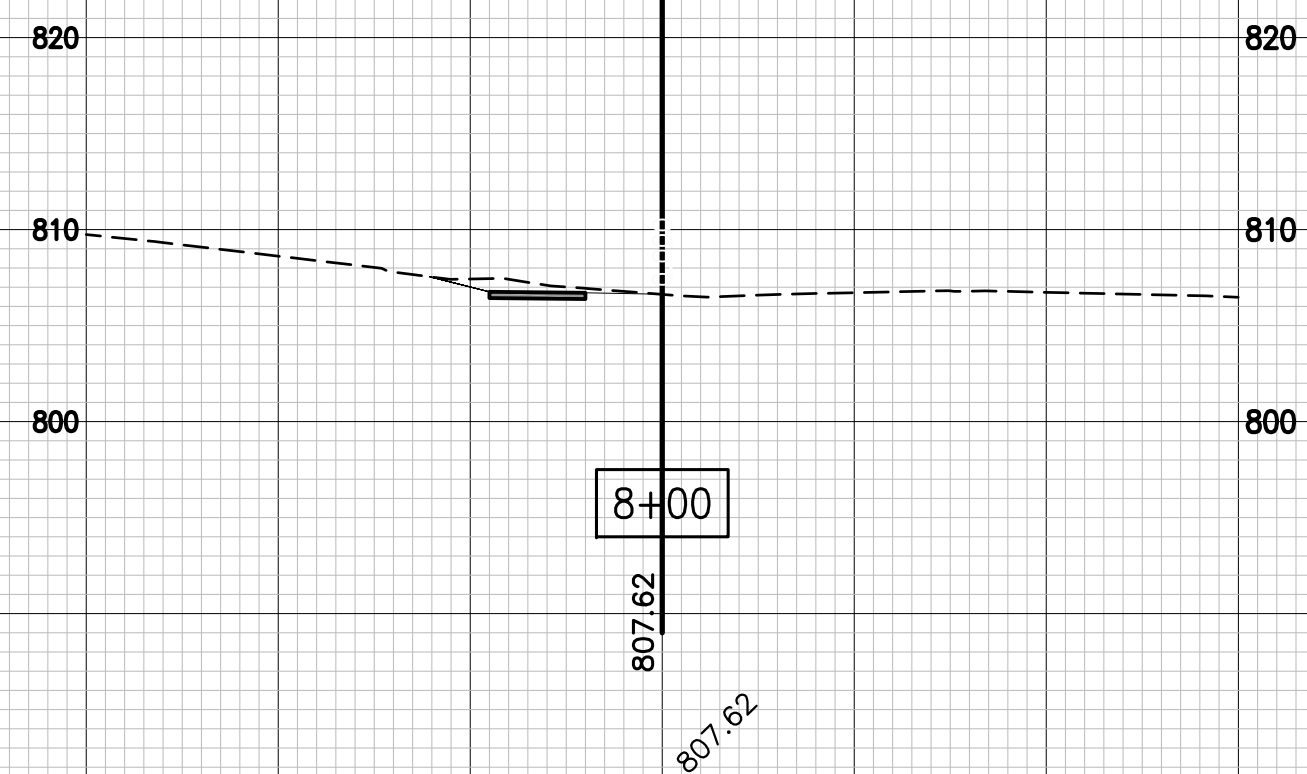
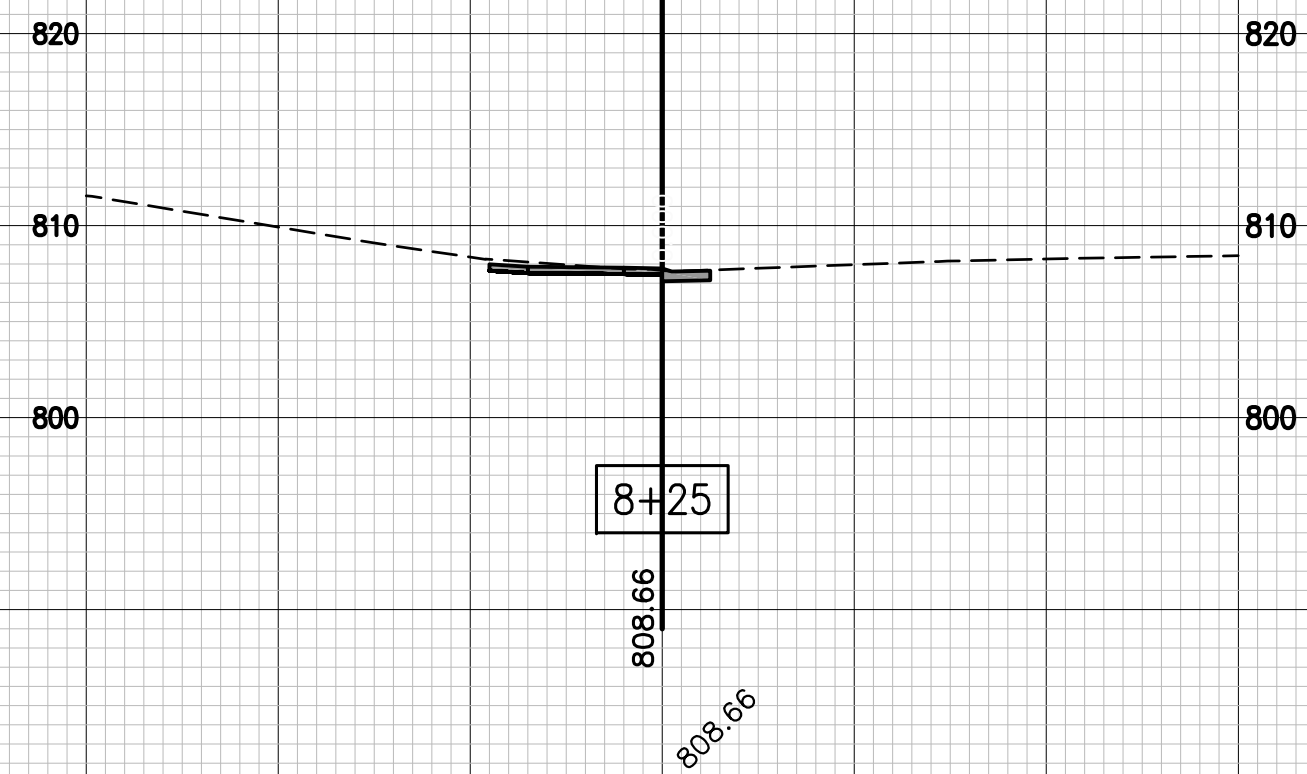
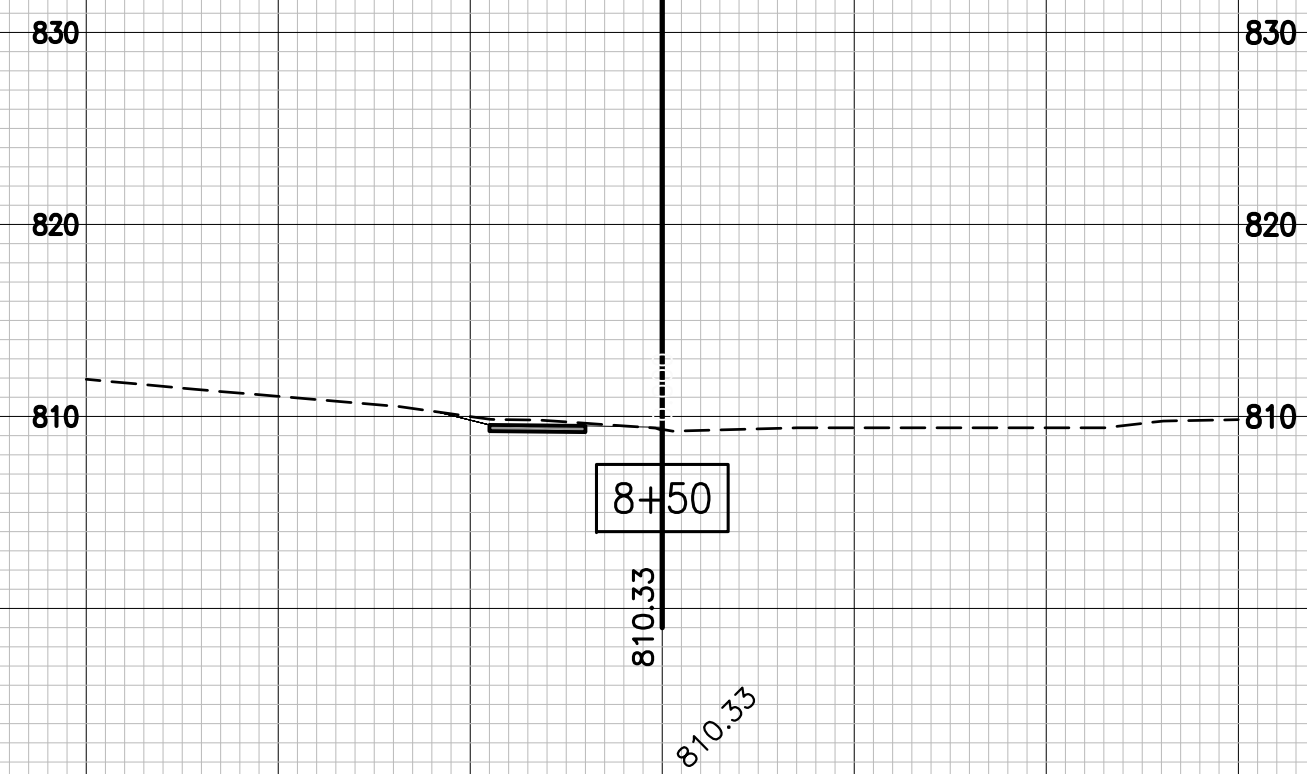
MCKEE STREET SIDEWALK
Cross Sections - Sta 6+50 to Sta 7+75

City of Columbia, Missouri
Department of Public Works

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| File No. | 00712 |
| Scale: | 1"=10' |
| Date: | 05/24/2019 |
| Des. | E.M.F. |
| Dwn. | C.N.S. |
| Chk. | A.A.A. |

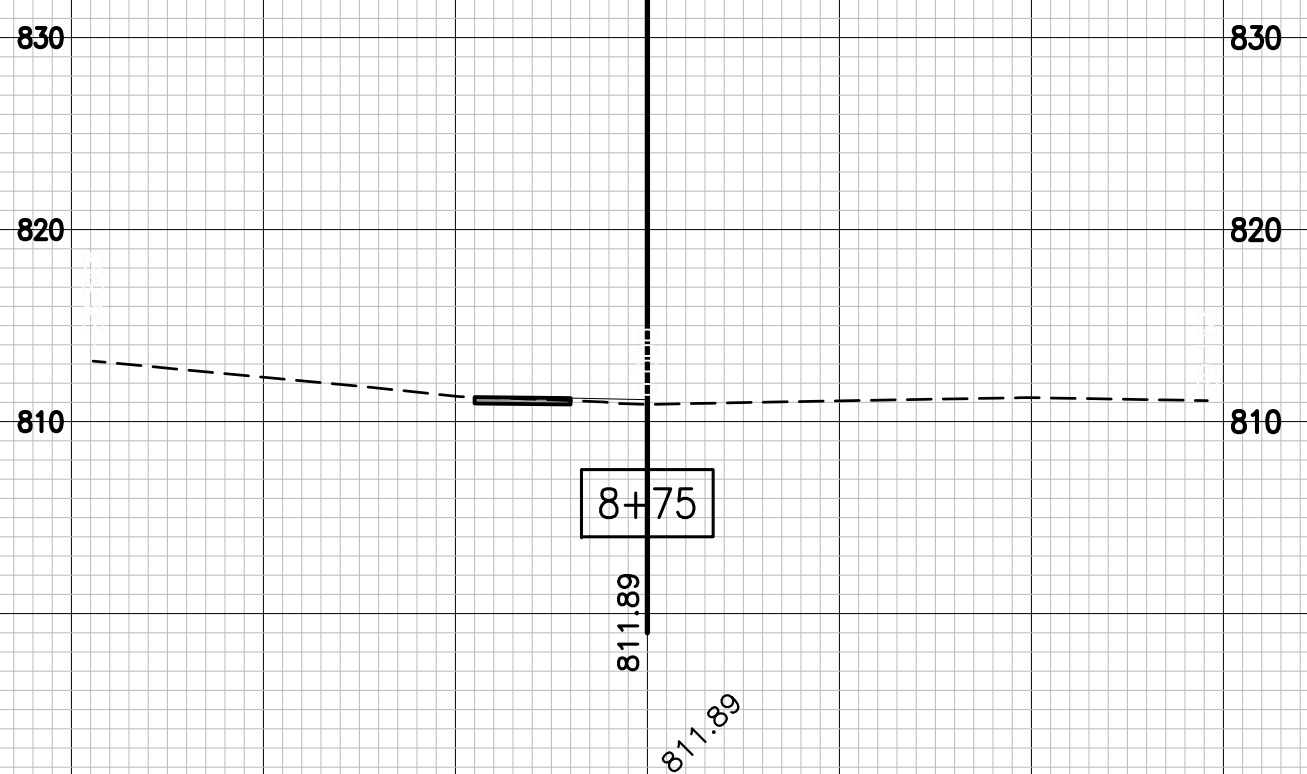
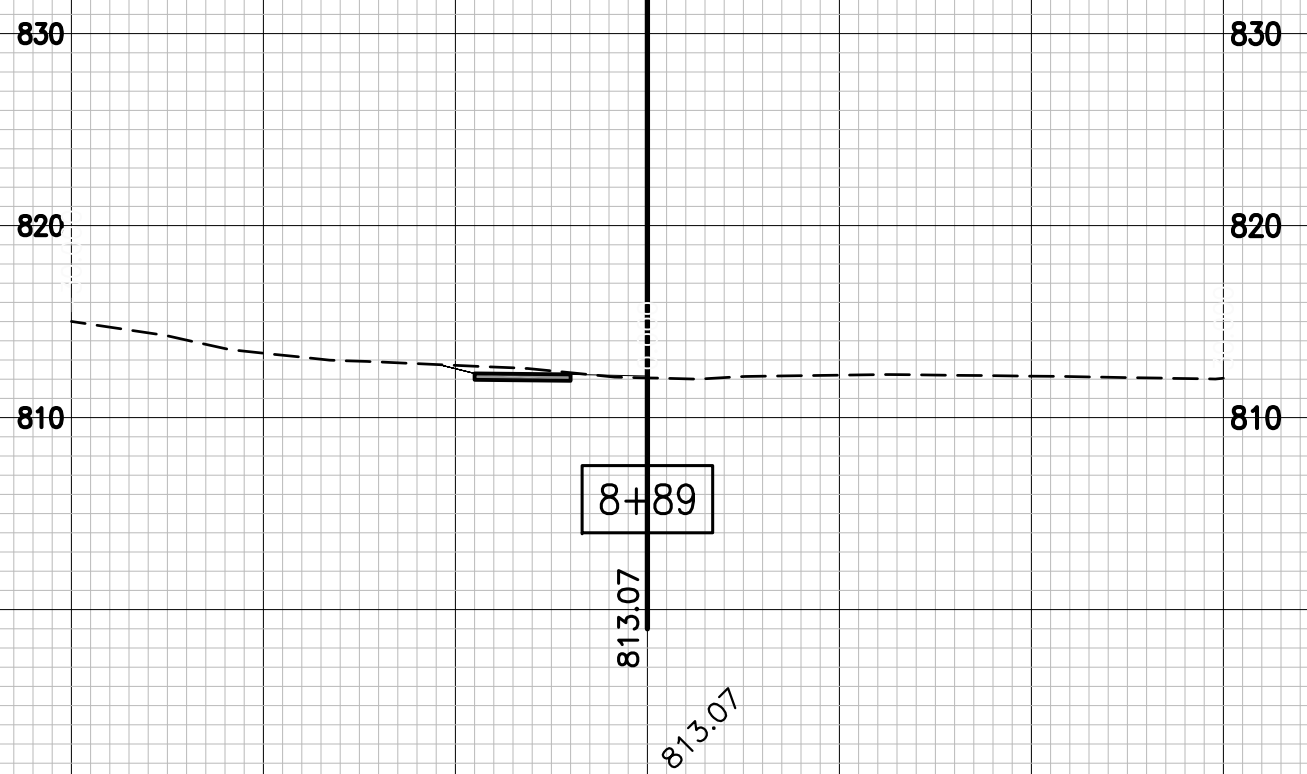
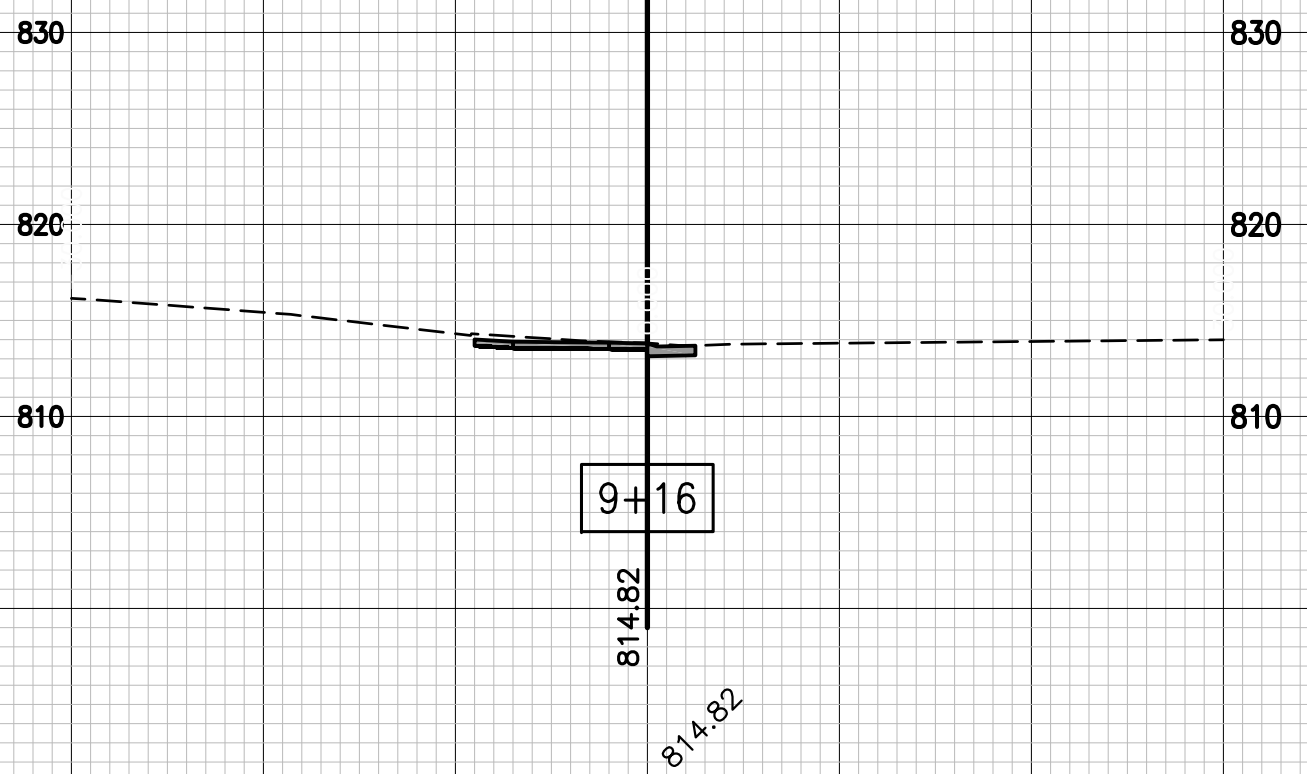
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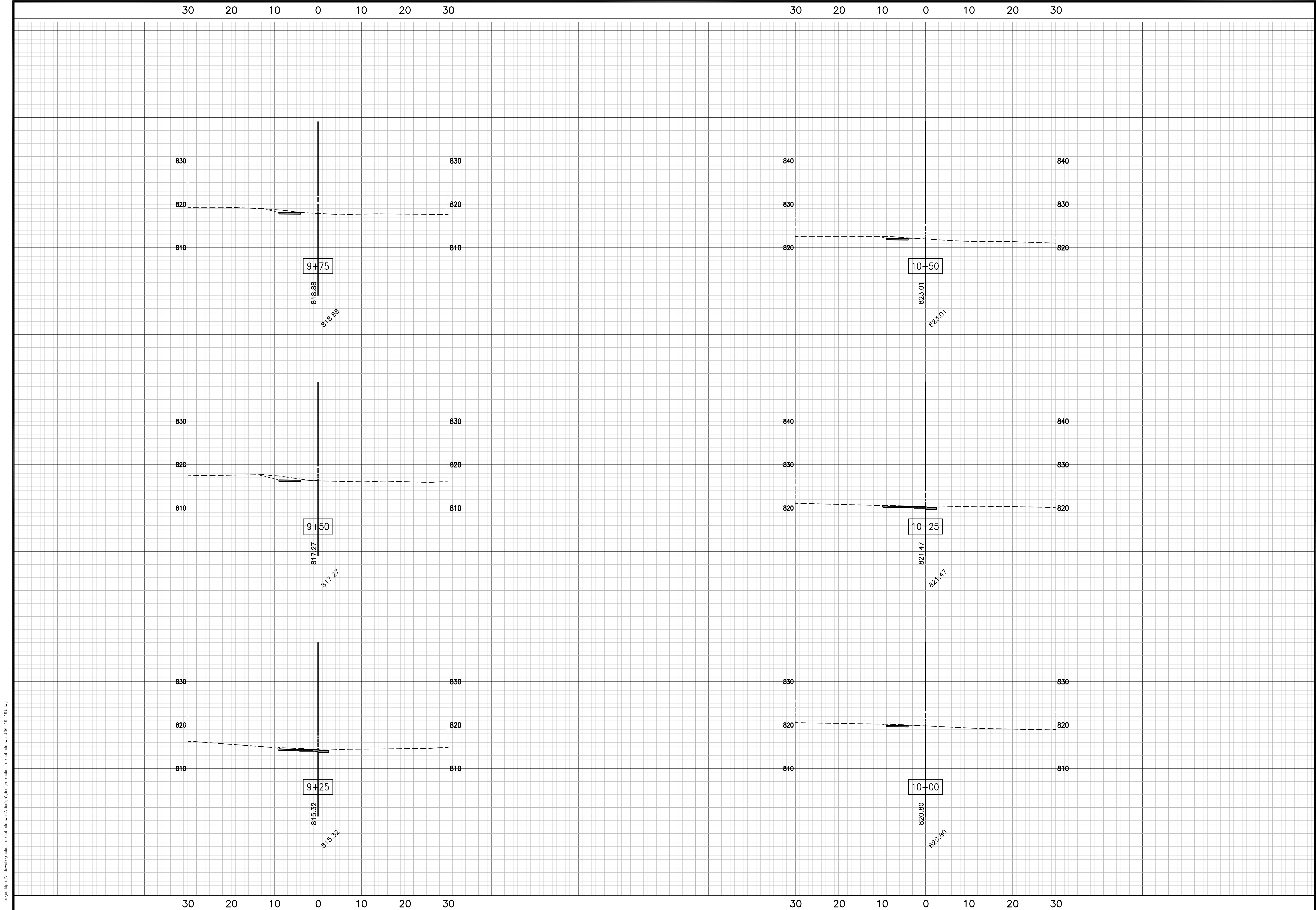
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MCKEE STREET SIDEWALK
Cross Sections - Sta 8+00 to Sta 9+16

City of Columbia, Missouri
Department of Public Works

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| File No. | 00712 |
| Scale: | 1"=10' |
| Date: | 05/24/2019 |
| Des. | E.M.F. |
| Dwn. | C.N.S. |
| Chk. | A.A.A. |



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MCKEE STREET SIDEWALK
Cross Sections - Sta 9+25 to Sta 10+50

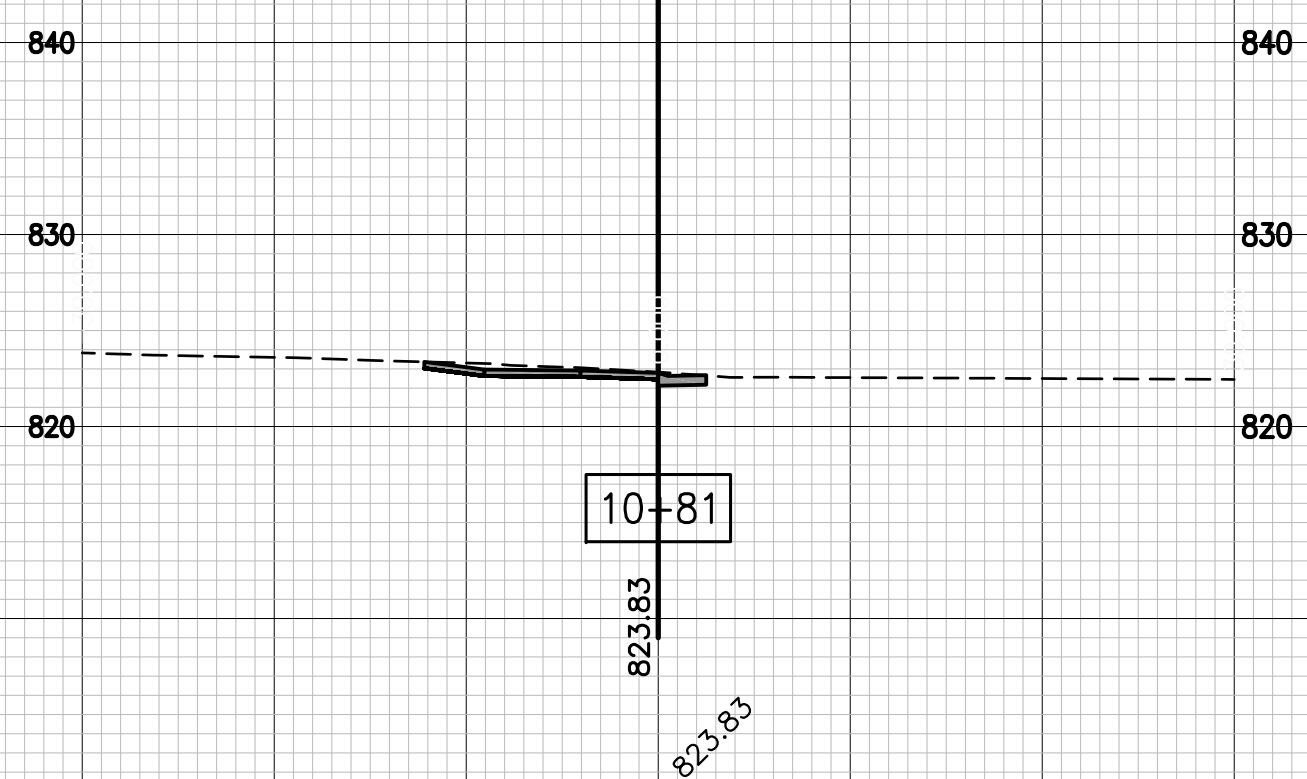
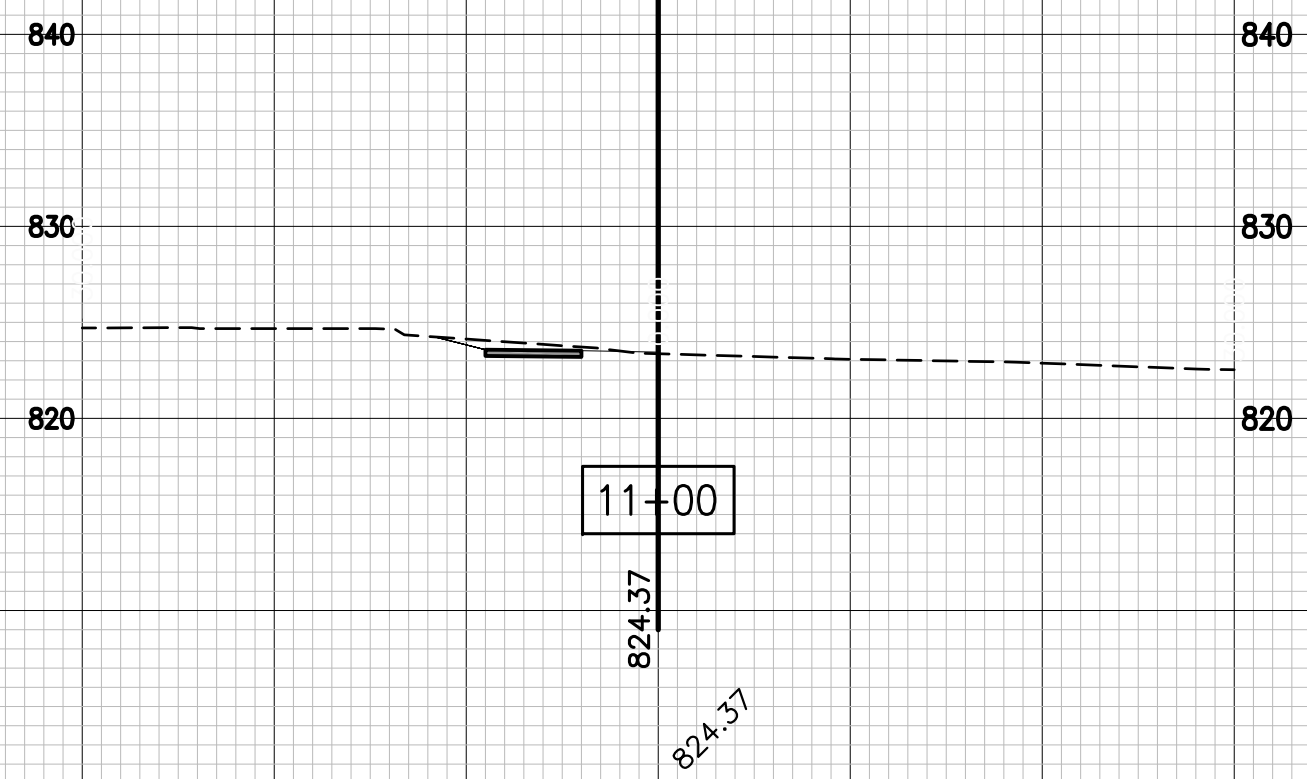
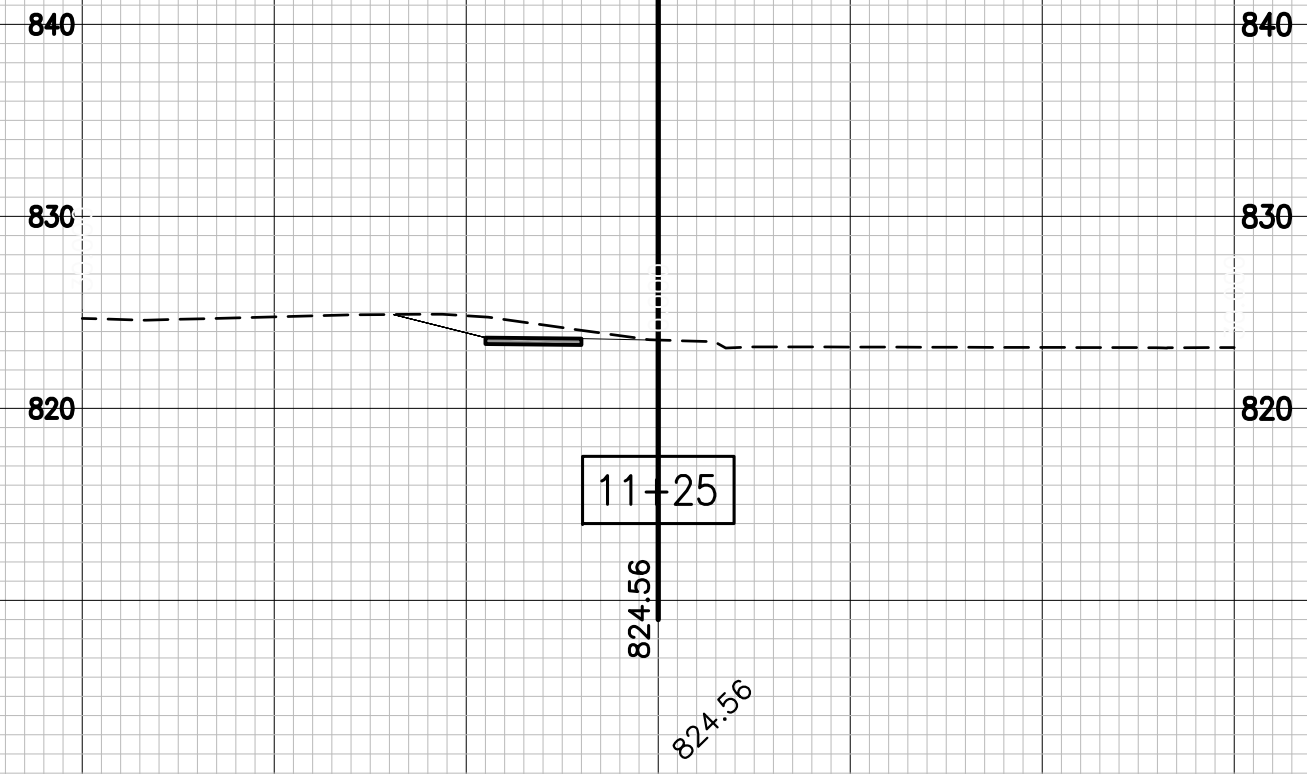
City of Columbia, Missouri
Department of Public Works

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| File No. | 00712 |
| Scale: | 1"=10' |
| Date: | 05/24/2019 |
| Des. | E.M.F. |
| Dwn. | C.N.S. |
| Chk. | A.A.A. |

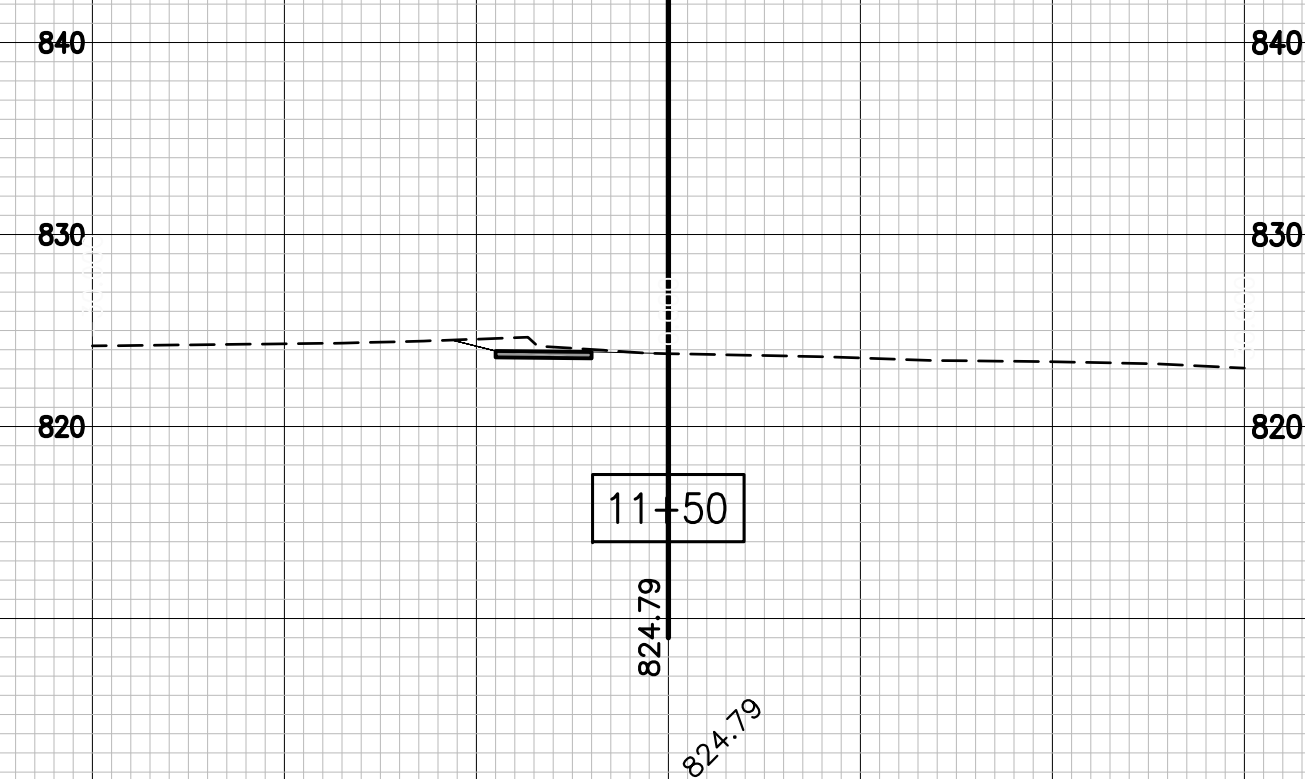
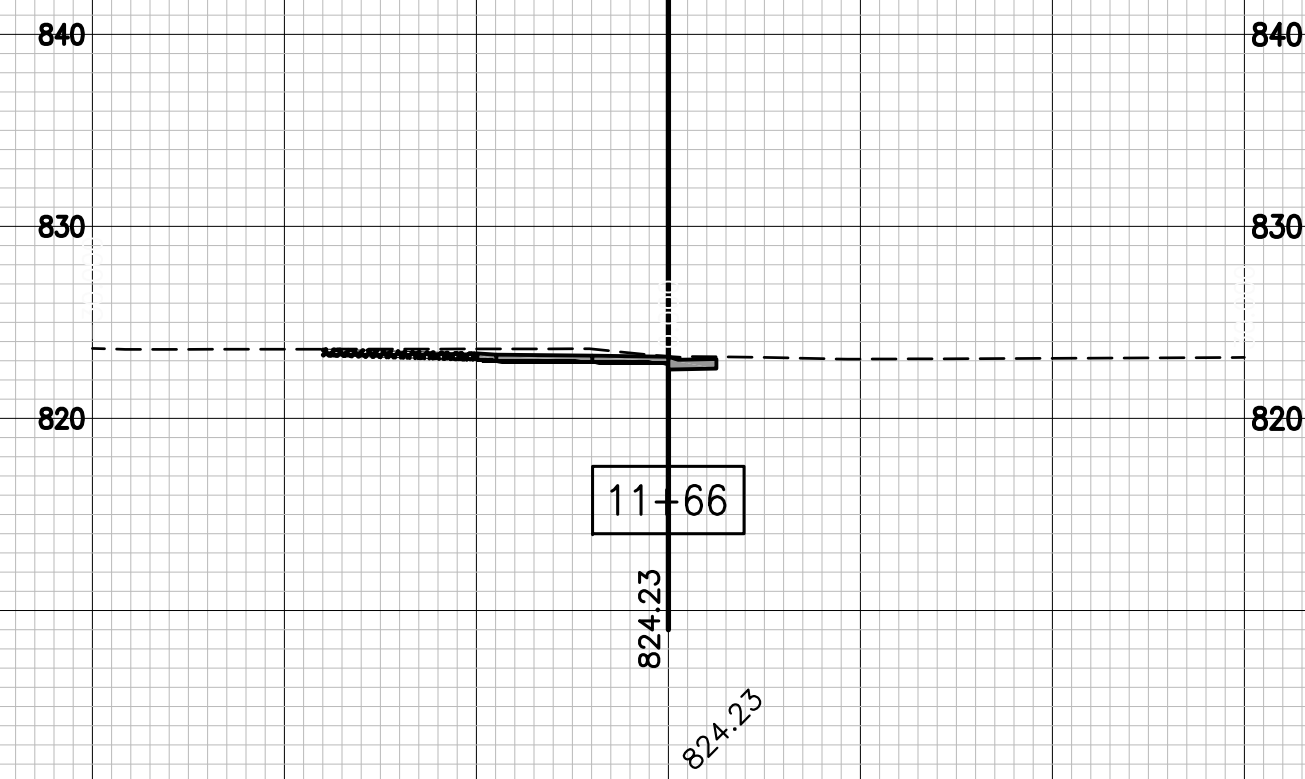
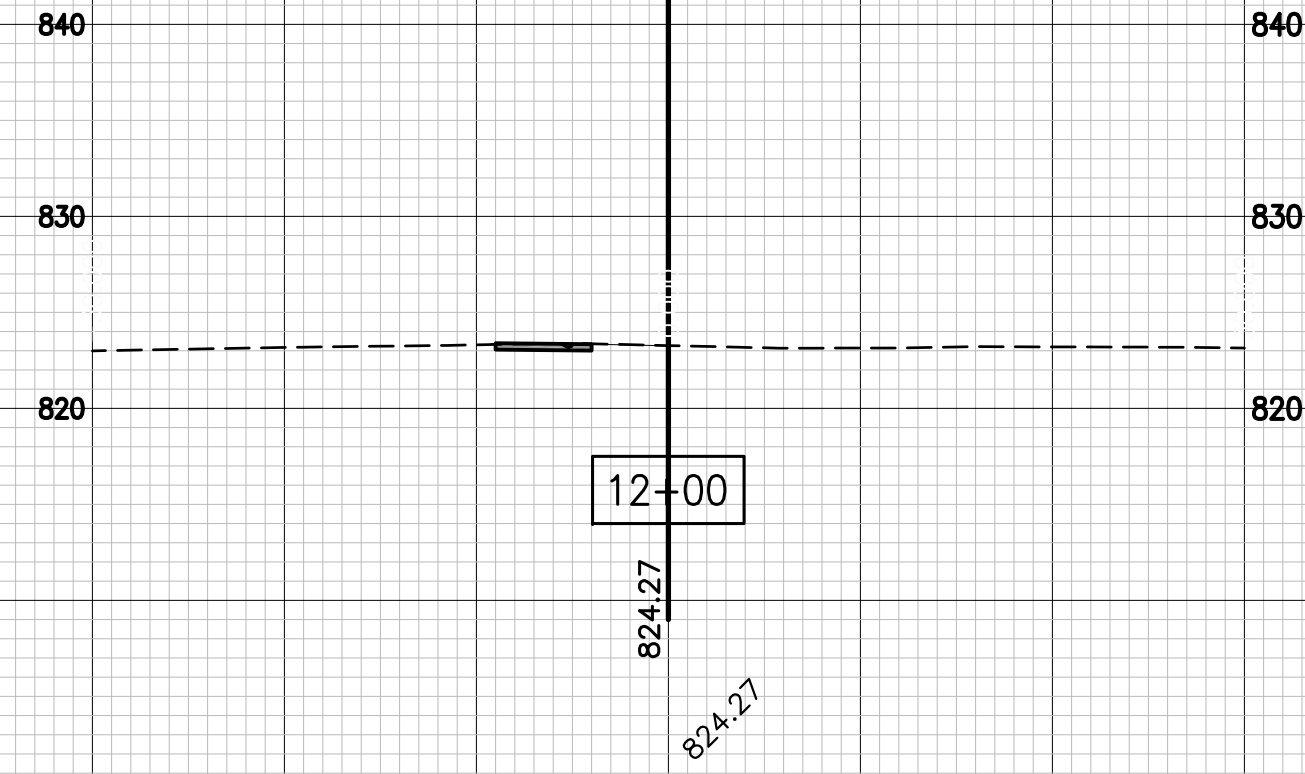
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MCKEE STREET SIDEWALK
Cross Sections - Sta 10+81 to Sta 12+00

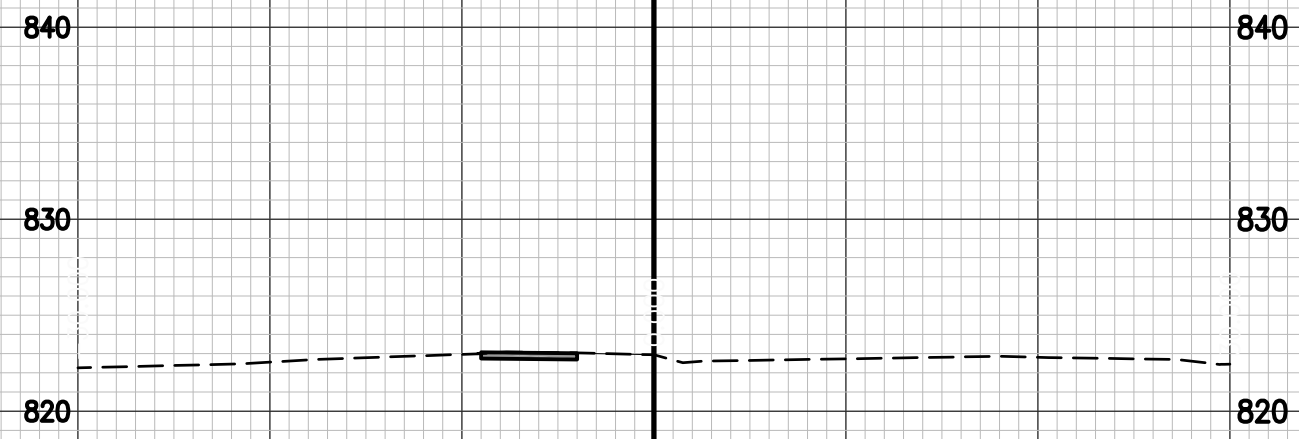
City of Columbia, Missouri
Department of Public Works

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| File No. | 00712 |
| Scale: | 1"=10' |
| Date: | 05/24/2019 |
| Des. | E.M.F. |
| Dwn. | C.N.S. |
| Chk. | A.A.A. |

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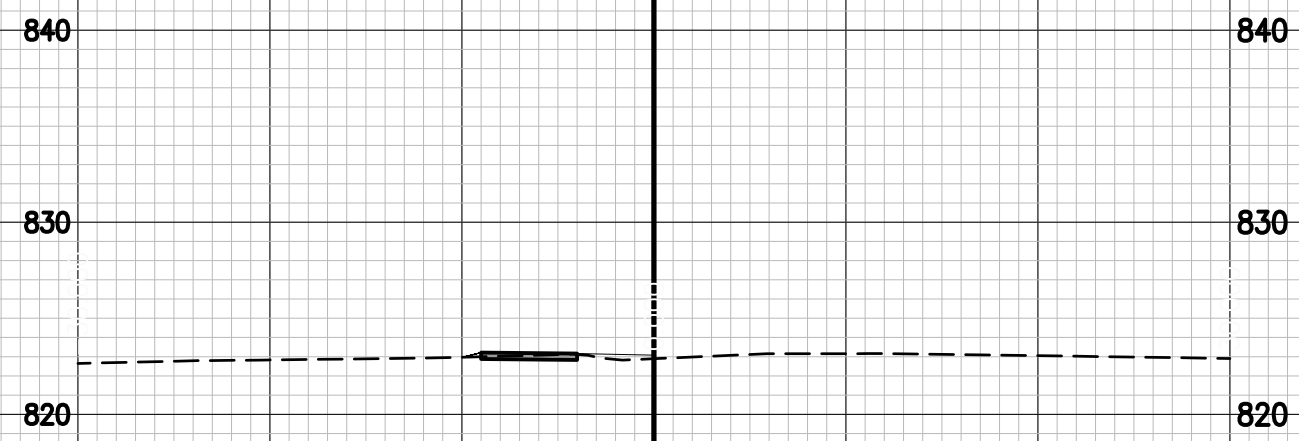
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12+16

823.94

823.94



12+09

823.89

823.89

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Revision

By

Date

No.

MCKEE STREET SIDEWALK

Cross Sections - Sta 12+09 to Sta 12+16

City of Columbia, Missouri

Department of Public Works

File No. 00712
 Scale: 1"=10'
 Date: 05/24/2019
 Des. E.M.F.
 Dwn. C.N.S.
 Chk. A.A.A.