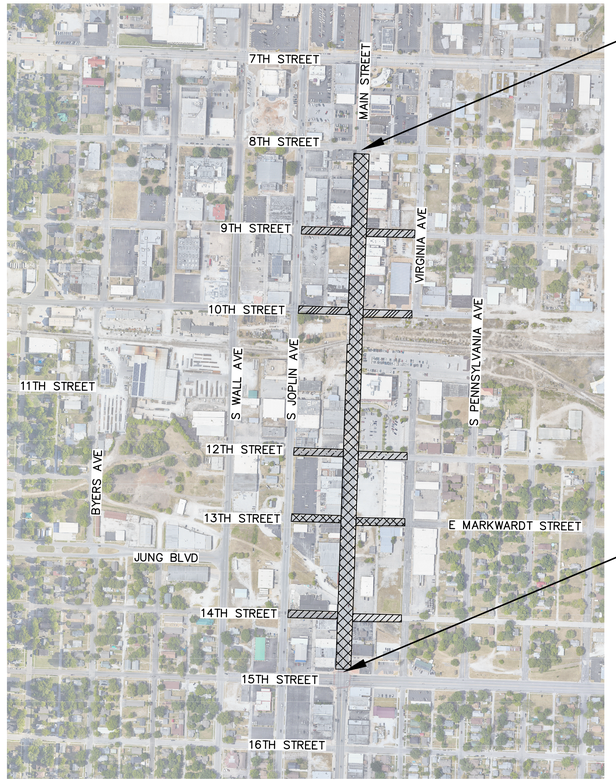
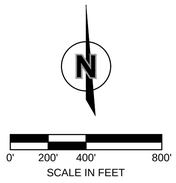
# PUBLIC STREET PLANS FOR
# MAIN STREET STREETSCAPE
# 8th STREET TO 15th STREET
## SECTIONS 10 & 11, TOWNSHIP 27N, RANGE 33W
## CITY OF JOPLIN, MISSOURI
## JASPER COUNTY, MISSOURI




PROJECT LOCATION




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| 11 | SURVEY CONTROL |
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## LANDSCAPE PLANTING PLANS FOR REFERENCE ONLY


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| 2 | SUMMARY OF QUANTITIES |
| 3–8 | LANDSCAPE PLANS |
| 9–10 | LANDSCAPE DETAILS |


- BASE BID (MAIN STREET)
- BID ALTERNATIVE 1 (9th STREET)
- BID ALTERNATIVE 2 (10th STREET)
- BID ALTERNATIVE 3 (12th STREET)
- BID ALTERNATIVE 4 (13th STREET)
- BID ALTERNATIVE 5 (14th STREET)

## LEGEND

| | | | |
|---|---|---|---|
| CTL | SURVEY CONTROL POINT | TS | TRAFFIC SIGNAL BOX |
| | SURVEY BENCHMARK | TS | TRAFFIC SIGNAL MANHOLE |
| TBM | SURVEY TEMPORARY BEMCHMARK | | TRAFFIC SIGNAL POLE W/ ARM |
| GM | GAS METER | | TRAFFIC SIGNAL POLE |
| GAR | GAS RISER | TS | TRAFFIC SIGNAL CONTROL BOX |
| G | GAS MANHOLE | TS | TRAFFIC SIGNAL PEDESTAL |
| GR | GAS REGULATOR | E | ELECTRIC MANHOLE |
| TVP | TELEVISION PEDESTAL | EM | ELECTRIC METER |
| F | FIBER BOX | ER | ELECTRIC RISER |
| FB | FIBER PEDESTAL | E | ELECTRIC BOX |
| C | CABLE BOX | | ELECTRIC CABINET |
| CV | CABLE VAULT | J | ELECTRIC JUNCTION BOX |
| TP | TELEPHONE PEDESTAL | SPH | SPRINKLER HEAD |
| S | STORM MANHOLE | SCV | SPRINKLER CONTROL VALVE |
| | STORM GRATE | | WATER METER PIT |
| S | SANITARY MANHOLE | | FIRE HYDRANT |
| YL | YARD LIGHT | WM | WATER METER |
| LTP | LIGHT POLE | WV | WATER VALVE |
| | POWER POLE | FP | FLAG POLE |
| LPPP | POWER POLE W/ LIGHT | | SIGN |
| | GUY WIRE | | BOLLARD |
| BU | STUMP | | WOOD POST |
| | BUSH | | STEEL POST |
| | EVERGREEN TREE | COL | COLUMN |
| | DECIDUOUS TREE | | BORE HOLE |

- SECTION LINE
- PROPERTY LINE
- CENTER LINE
- PROPOSED ROW LINE
- EXISTING ROW LINE
- UTILITY EASEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING TELEPHONE LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC CABLE
- EXISTING PIPE LINE
- GRADING LIMITS
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED CHAIN LINK FENCE
- PROPOSED WOOD PRIVACY FENCE
- EXISTING TREELINE
- CONSTRUCTION LIMITS
- UNDERDRAIN

## DESIGN DESIGNATION

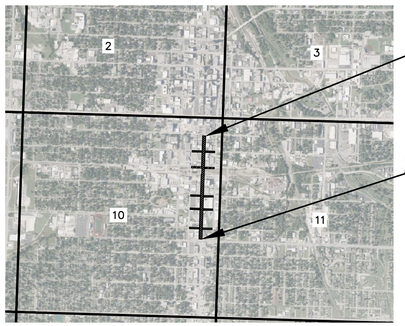
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DESIGN SPEED: 20 MPH MAIN STREET 8TH –10TH
30 MPH MAIN STREET 10TH – 15TH
POSTED SPEED: 20 MPH MAIN STREET 8TH –10TH
30 MPH MAIN STREET 10TH – 15TH
20 MPH 8TH, 9TH, 10TH, 12TH,
13TH, 14TH STREETS

## ABBREVIATION TABLE

| | |
|---|---|
| M.G. | MATCH GRADE |
| TP | PAVEMENT |
| TC | TOP OF CURB |
| BC | BACK OF CURB |
| EP | EDGE OF PAVEMENT |
| R/W | RIGHT–OF–WAY |
| TCE | TEMPORARY CONSTRUCTION EASEMENT |
| PROP. | PROPOSED |
| EXIST. | EXISTING |
| TYP. | TYPICAL |
| (R) | REMOVAL |
| CONST. | CONSTRUCT |
| TBM | TEMPORARY BENCMARK |
| C.P. | CONTROL POINT |
| D.N.D. | DO NOT DISTURB |
| U.I.P. | USE IN PLACE |
| ADJ. | ADJUST |
| EL. | ELEVATION |
| ESMT. | EASEMENT |
| B–B | BACK OF CURB TO BACK OF CURB DIMENSION |
| ℄ | CENTERLINE |

MISSOURI ONE CALL SYSTEM
**1-800-DIG-RITE ☎ 811**
**www.mo1call.com**

THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1–800–DIG–RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!




PROJECT LOCATION

SECTION 02, 03, 10, 11
T–27–N, R–33–W
JASPER COUNTY, MISSOURI
VICINITY MAP
SCALE: 1" = 2000'

## UTILITIES INFORMATION

ELECTRIC – LIBERTY UTILITIES
ATTN: RICK STOCKTON
3400 S. KODIAK ROAD
JOPLIN, MO 64804
(417) 850–7919

NATURAL GAS – SPIRE
ATTN: BAYLEE GODAT
520 E. 5TH STREET
JOPLIN, MO 64801
(816) 334–8075

WATER – MISSOURI–AMERICAN WATER CO.
ATTN: MATT HANNA
2323 DAVIS BLVD.
JOPLIN, MO 64804
(417) 529–9783

TELEPHONE – AT&T
ATTN: JOHN FISK
321 W. 8TH STREET
JOPLIN, MO 64801
(417) 529–0840

CABLE TELEVISION – CABLE ONE DIGITAL
ATTN: RANDY KENNEDY
112 E 32ND STREET
JOPLIN, MO 64804
(417) 206–5399

FIBER OPTIC – LIBERTY CONNECT
ATTN: BRAD MYERS
720 SCHIFFERDECKER AVE
JOPLIN, MO 64801
(417) 625–5179

## PREPARED & SUBMITTED BY:

OLSSON
702 S. MAIN STREET
JOPLIN, MISSOURI 64801

JONATHAN PEITZ, P.E. DATE

## APPROVED BY:

CITY OF JOPLIN, MISSOURI

CITY ENGINEER DATE


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1027 S. Main Street, Suite 503 TEL 417.781.0643 www.olsson.com
Joplin, MO 64801


STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/21/2025
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

TITLE PAGE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_TTL01_02300893
date: 4.19.2026

SHEET 1 of 162


USER: mmayfarth
T_PAERL_02300893
V_XBNDY_02300893
T_PBASE_02300893
V_XTOPO_02300893
T_PAERL_02300893
DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\RDBR\T_TTL01_02300893.dwg
DATE: Apr 19, 2026 12:56pm
XREFS: T_PTBLK_02300893

## GENERAL NOTES:

1. ALL WORK PRESENTED, IMPLIED, AND/OR COMPLETED AS A PART OF THIS PLAN SET SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE CITY OF JOPLIN UNLESS SPECIFICALLY STATED OTHERWISE. ALL ITEMS AND WORK REFERENCING MODOT STANDARD DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS (APPROVED BY CITY OF JOPLIN) AND ONE (1) COPY OF ALL APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS ON THE SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
4. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
5. ALL SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE 2011 PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY.
6. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST VERSION) THROUGHOUT THE PROJECT IN HIGHWAYS, SIDEWALKS, STREETS AND INTERSECTIONS.
7. ALL ELEVATIONS ARE TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 1988).
8. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DO A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
9. THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO THE ENGINEER FOR APPROVAL OF ALL AREAS TO BE USED FOR STAGING, MOBILIZATION, EQUIPMENT AND MATERIAL STORAGE AND GENERAL PROJECT CONSTRUCTION MANAGEMENT. REQUEST SHALL BE SUBMITTED TO THE ENGINEER WITHIN 5 DAYS OF THE NOTICE TO PROCEED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF THE CONSTRUCTION CREW AND THE GENERAL PUBLIC AND THE SAFETY OF PUBLIC AND PRIVATE PROPERTY. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
11. NO EQUIPMENT OR MATERIAL SHALL BE DEPOSITED ON PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES RESULTING FROM SUCH ACTS AND SHALL REMOVE THE MATERIAL AND RESTORE THE PROPERTY AT THE EXPENSE OF THE CONTRACTOR.
12. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 7:00 PM UNLESS APPROVED OR DIRECTED BY THE ENGINEER.
13. THE CITY OF JOPLIN SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DEMOLITION AND REMOVAL ITEMS SUCH AS SIGNAGE, POLES, SIGNAL EQUIPMENT, ETC. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS FOR A TIME AND LOCATION TO DELIVER THOSE ITEMS TO THE CITY. CONSTRUCTION DEBRIS SUCH AS BROKEN CONCRETE, EXCESS FILL, ETC. SHALL BECOME THE PROPERTY OF THE CONTRACTOR. MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE PRIOR TO ACCEPTANCE OF THE PROJECT. ALL MATERIAL SHALL BE DISPOSED OF IN A MANNER THAT IS IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
14. ALL ITEMS REMOVED SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR AS PER CITY OF JOPLIN REQUIREMENTS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL STORM AND SANITARY MANHOLE RIMS TO MATCH THE PROPOSED FINISHED GRADE. THIS ITEM SHALL BE PAID FOR AS EXISTING MANHOLE RIM ADJUSTMENTS (SANITARY & STORM) EACH.
16. MISSOURI AMERICAN WATER SHALL BE RESPONSIBLE FOR ADJUSTING ALL WATER METERS, VALVE BOXES, HYDRANTS, ETC. TO MATCH PROPOSED FINISHED GRADE. THE CONTRACTOR SHALL CONTACT MISSOURI AMERICAN WATER TO COORDINATE THE ADJUSTMENT OF EXISTING WATER FACILITIES.
17. UNLESS SPECIFICALLY STATED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING METERS, VALVES, VALVE BOXES, BUILDING DRAIN LINES, ETC. TO MATCH FINISHED GRADE. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
18. RIGHT-OF-WAY AND EASEMENTS SHOWN ARE APPROXIMATE, AND DO NOT DEPICT A LEGAL SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT LOCATION OF RIGHT-OF-WAY, PROPERTY LINES, AND EASEMENTS AND CONTAINING ACTIVITIES WITHIN THOSE LIMITS.
19. THE CONTRACTOR SHALL PROTECT EXISTING RIGHT-OF-WAY AND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RESET AT THE CONTRACTOR'S EXPENSE BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI.
20. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SCHEDULE OF OPERATIONS AT THE BEGINNING OF EACH WEEK. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
21. THE CONTOUR LINES & SPOT ELEVATIONS SHOWN ARE TO FINISH GRADE FOR SURFACE OF PAVEMENT, TOP OF SIDEWALKS AND CURBS, TOP OF FLOOR SLABS, ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT FOR GRADING LINE ELEVATIONS.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PUBLIC STREETS IN THE VICINITY OF THE JOB SITE CLEAN AND FREE OF ROCKS, SOIL AND DEBRIS. CLEAN STREETS OF CONSTRUCTION DEBRIS DAILY. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTIONS AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. THE CONTRACTOR SHALL UTILIZE AND COMPLY WITH ALL REQUIREMENTS OF THE CITY OF JOPLIN'S LAND DISTURBANCE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). ALL EROSION AND SEDIMENT CONTROL PLANS SHALL BE INCORPORATED INTO THE SWPPP. CONTRACTOR SHALL MAINTAIN THE SWPPP THROUGHOUT THE PROJECT AND COMPLETE THE REQUIRED DOCUMENTATION UNTIL THE SITE IS STABILIZED AND ACCEPTED BY THE ENGINEER. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
24. CONSTRUCTION ACCESS TO THE SITE SHALL BE LIMITED TO THE APPROVED TEMPORARY CONSTRUCTION ENTRANCE(S). TEMPORARY CONSTRUCTION ENTRANCE SHALL HAVE SHOT ROCK FOR ITS SURFACE. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
25. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE ENTIRE CONSTRUCTION PERIOD BY THE CONTRACTOR. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
26. CONTRACTOR TO PROTECT ANY STORM INLETS FROM SEDIMENT THAT TAKE STORM WATER FROM THE AREA OF CONSTRUCTION. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
27. THE DETENTION BASINS, WATER QUALITY BASIN AND STORM WATER CHANNELS (PIPES), IF SHOWN, SHALL BE FUNCTIONING BEFORE ANY OTHER WORK MAY BEGIN. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
28. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE APPROVED SEDIMENT AND EROSION CONTROL PLAN (SECP). THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
29. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BERMS, SILT FENCES, OR OTHER MEANS TO PREVENT ERODED MATERIALS FROM REACHING THE PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTIES. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS, SILT, OR MUD AND RESTORE THE RIGHT-OF-WAY TO ORIGINAL OR BETTER CONDITION. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
30. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL PROCEDURES SHALL BE IN PLACE PRIOR TO BEGINNING GRADING ACTIVITIES. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL BARRIERS DURING CONSTRUCTION OR UNTIL THEY ARE RELEASED FROM THIS RESPONSIBILITY BY THE ENGINEER. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
32. THE CONTRACTOR SHALL CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES AND MANHOLES OF DEBRIS AND SEDIMENTATION AT COMPLETION OF SITE WORK. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE OWNER & ENGINEER. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
33. THE CONTRACTOR IS RESPONSIBLE FOR ATTENDING TO AND CORRECTING UNSUITABLE SOIL CONDITIONS RELATED TO PLOW ZONES, WET SOILS, AND OTHER CONDITIONS. THE UNSUITABLE CONDITIONS MUST BE CORRECTED PER THE GEOTECHNICAL ENGINEER'S REPORT, WHERE REQUIRED, TO MEET PROJECT NEEDS.
34. THE SUBGRADE SOILS BENEATH THE PAVEMENT SECTION SHALL BE OVER EXCAVATED SUFFICIENTLY TO INSTALL THE NEW PAVEMENT SECTION.
35. IF THE CONTRACTOR'S OPERATIONS CAUSE AN UNSATISFACTORY SUBGRADE, THE CONTRACTOR SHALL RESTORE THE SUBGRADE TO A SATISFACTORY CONDITION AT THE CONTRACTOR'S EXPENSE.
36. STRIPPINGS ARE TO BE STOCKPILED. FOLLOWING THE COMPLETION OF THE GRADING, THIS TOPSOIL SHALL BE USED AS FILL MATERIAL ON ALL LANDSCAPED AREAS. IF STOCKPILE IS INACTIVE FOR MORE THAN 14 DAYS, STABILIZE OR PROTECT THE PERIMETER AS PER CITY OF JOPLIN "EROSION AND SEDIMENT CONTROL GUIDELINES". THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
37. ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE GRADING AND REDISTRIBUTED WITH THE TOPSOIL. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
38. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN IN THE PLANS, NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL OR 1 FOOT VERTICAL IN 2 FEET HORIZONTAL IN GUARDRAIL AREAS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
39. ALL BACK FILL SHALL BE TAMPED. BACK FILL WITHIN THE RIGHT-OF-WAY SHALL BE COMPACTED TO 95% MAX. DENSITY AS PER ASTM-D698 (STANDARD PROCTOR COMPACTION). THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
40. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
41. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO ACTUAL LOCATION OF EXISTING FACILITIES. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
42. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN WITHIN THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIRS OF SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY CONSTRUCTION ACTIVITIES. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
43. ALL TRENCHING SHALL BE IN ACCORDANCE WITH SECTION 1700 OF THE JOPLIN STANDARD SPECIFICATIONS. NO SEPARATE MEASUREMENTS AND PAYMENT WILL BE MADE FOR TRENCH EXCAVATION AND BACKFILL REQUIRED FOR STORM SEWER CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF MATERIAL FROM STORM SEWER TRENCHING. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
44. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE CONVEYANCE DURING CONSTRUCTION. NO PIPES OR RCB'S SHALL BE ABANDONED OR FILLED WITH FLOWABLE FILL UNTIL THE NEW STORM SEWER PIPE IS CONSTRUCTED AND CONNECTIONS ARE COMPLETE.
45. ALL ACTIVE DRAIN LINES (PUBLIC OR PRIVATE) THAT ARE CONNECTED TO THE EXISTING STORM SEWER SYSTEM TO BE REMOVED SHALL BE EXTENDED AND CONNECTED TO THE PROPOSED STORM SEWER SYSTEM. IT IS ANTICIPATED THAT PRIVATE ROOF DRAINS AND/OR FOUNDATION DRAINS MAY NEED TO BE EXTENDED TO CONTINUE TO FUNCTION PROPERLY. ALL CONNECTIONS TO PROPOSED STORM SYSTEM THAT ARE NOT EXPLICITLY SHOWN AND IDENTIFIED ON THE BID FORM WILL BE CONSIDERED SUBSIDIARY TO THE PROPOSED STORM SEWER PIPE.
46. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PRECAST CONCRETE STRUCTURES AND PIPE FOR REVIEW AND APPROVAL BY THE PROJECT ENGINEER. THE SHOP DRAWINGS MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI. THE CONTRACTOR MUST RECEIVE APPROVAL OF THE SUBMITTED SHOP DRAWINGS PRIOR TO FABRICATION. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
47. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE; NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.

BEFORE SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE DETERMINED AND VERIFIED:

A. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT THERETO;
B. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK;
C. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO;
D. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES, AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.

ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY REVIEWED THE SUBMISSION AND CHECKED ALL DATA AND DETAILS. BY CONTRACTOR SIGNATURE, CONTRACTOR CERTIFIES SHOP DRAWING CONFORMANCE AND ACCURACY TO THE CONTRACT DOCUMENTS.

48. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE OWNER, TENANT, DELIVERY AND EMERGENCY VEHICULAR AND/OR PEDESTRIAN ACCESS TO ALL RESIDENCES AT ALL TIMES IN ACCORDANCE WITH THE CITY OF JOPLIN, ADA, PROWAG, AND MUTCD REQUIREMENTS, INCLUDING TEMPORARY ACCESS AND SAFETY REQUIREMENTS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.

## GRADING NOTES:

1. THE SUBGRADE SOILS BENEATH THE PAVEMENT SECTION SHALL BE OVEREXCAVATED SUFFICIENTLY TO INSTALL THE NEW PAVEMENT SECTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR ATTENDING TO AND CORRECTING UNSUITABLE SOIL CONDITIONS RELATED TO PLOW ZONES, WET SOILS, AND OTHER CONDITIONS. THE UNSUITABLE CONDITIONS MUST BE CORRECTED TO MEET PROJECT NEEDS.
3. IF THE CONTRACTOR'S OPERATIONS CAUSE AN UNSATISFACTORY SUBGRADE, THE CONTRACTOR SHALL RESTORE THE SUBGRADE TO A SATISFACTORY CONDITION AT THE CONTRACTOR'S EXPENSE.


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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

GENERAL NOTES

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

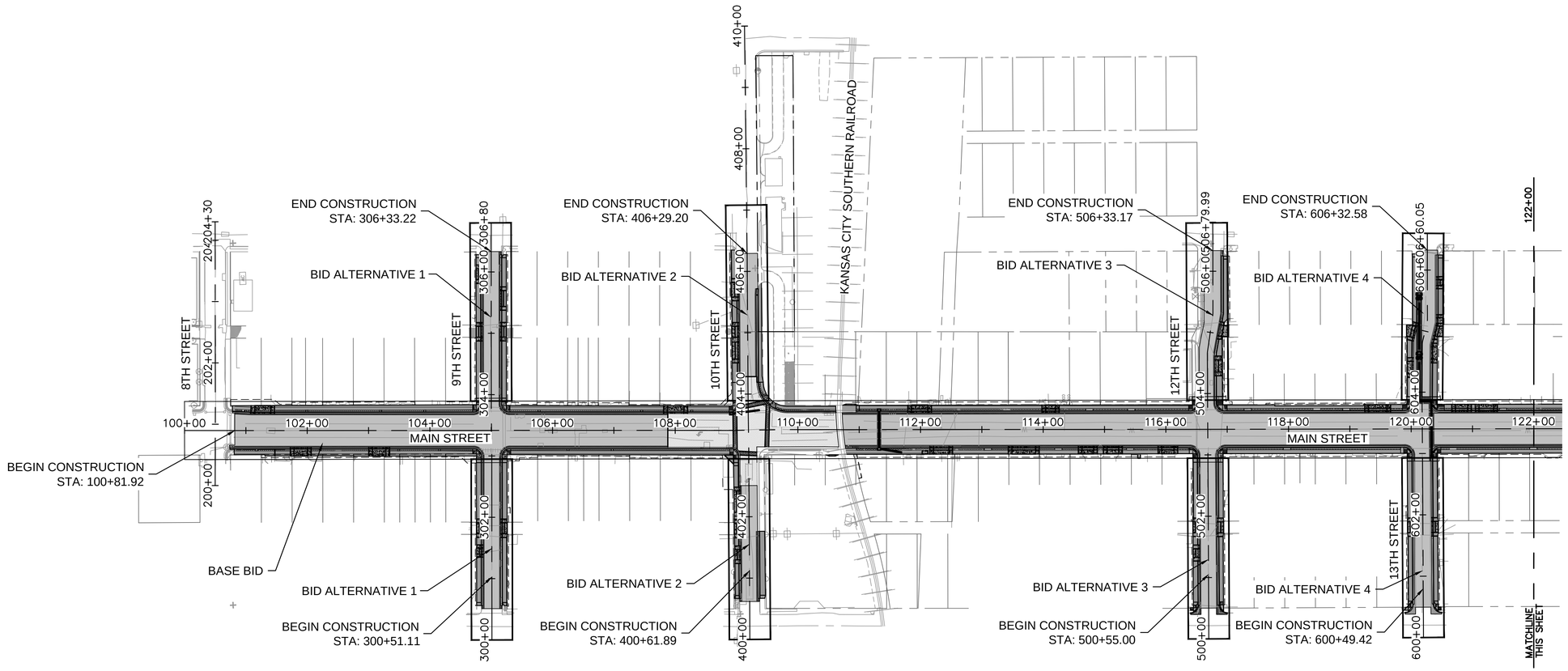
JOPLIN, MO

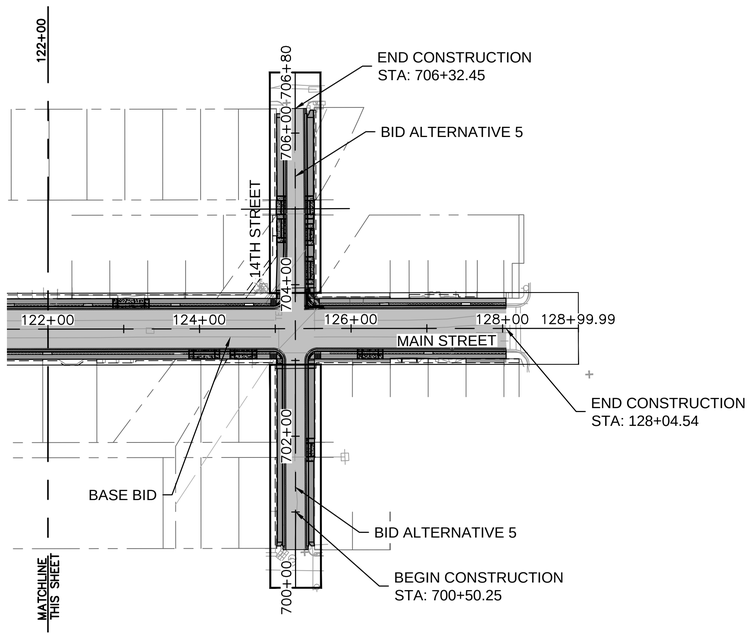
2025

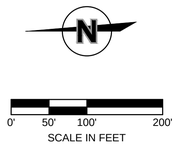
drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_GEN01_02300893
date: 4.19.2026

SHEET
2 of 162

DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\RDBR\T_GEN01_02300893.dwg USER: mmayfarth
DATE: Apr 19, 2026 12:46pm XREFS: T_PTBLK_02300893




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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

GENERAL LAYOUT

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
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date: 4.19.2026

SHEET
3 of 162

DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\RDBR\T_GEN-LYT01_02300893.dwg USER: mmayfarth
DATE: Apr 19, 2026 12:49pm XREFS: T_PTBLK_02300893 V_XTOPO_02300893_Combined T_PPAIT_02300893
T_PPAIT_ADD-ALT_02300893 V_XBNDY_02300893 T_PBASE_02300893 T_PBASE_ADD-ALT_02300893

## MAIN STREET - BASE BID QUANTITIES

| BID ITEM | DESCRITPION | UNIT | QUANTITY |
|---|---|---|---|
| 1 | Mobilization | LS | 1 |
| 2 | Contractor Furnished Construction Staking and Surveying | LS | 1 |
| 3 | Clearing & Grubbing / Tree & Brush Removal | LS | 1 |
| 4 | Full Depth Asphalt Demo | SY | 3539 |
| 5 | Sidewalk & Drive Removal | SY | 5672 |
| 6 | Curb & Gutter Removal | LF | 5398 |
| 7 | Misc Utility Adjustment | LS | 1 |
| 8 | Erosion Control | LS | 1 |
| 9 | Embankment Grading | CY | 100 |
| 10 | Removal of Unsuitable Material* | CY | 100 |
| 11 | Backfill of Unsuitable Material* | CY | 100 |
| 12 | 8" Limestone Base (Roadway) | SY | 3589 |
| 13 | 2" Limestone Base (Sidewalk) | SY | 3645 |
| 14 | 2" Asphalt Milling | SY | 14327 |
| 15 | Asphaltic Concrete Surface (2") (MoDOT BP-1) | TONS | 1780 |
| 16 | Concrete Pavement (8") | SY | 3589 |
| 17 | Brick Pavers | SY | 483 |
| 18 | Class B Concrete Sidewalk (4") | SY | 3286 |
| 19 | Stamped Concrete Sidewalk (4") | SY | 1019 |
| 20 | Sidewalk Ramp (inc. Truncated Domes) | SY | 67 |
| 21 | Standard Upright Curb & Gutter | LF | 3757 |
| 22 | Commercial Driveway Construction (8" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base) | SY | 983 |
| 23 | Storm Sewer Inlet (3' x 2' I.D.) (Type A) | EA | 5 |
| 24 | Storm Sewer Inlet (3' x 4.5' I.D.) (Modified Combination) | EA | 1 |
| 25 | Storm Sewer Inlet (3' x 2' I.D.) (Type C) | EA | 1 |
| 26 | Storm Sewer Inlet (3'8" x 3' I.D.) (Type D) | EA | 2 |
| 27 | Junction Box 3' x 3' I.D. | EA | 1 |
| 28 | 48" Manhole | EA | 2 |
| 29 | Storm Sewer Pipe (15") (Class III RCP) | LF | 80 |
| 30 | Storm Sewer Pipe (18") (Class III RCP) | LF | 440 |
| 31 | Litter Receptacles | EA | 10 |
| 32 | Benches | EA | 12 |
| 33 | "Special" Decorative Planter | EA | 5 |
| 34 | Mosaic Brick Paver | LS | 1 |
| 35 | Remove and Replace Existing Signage | LS | 1 |
| 36 | District Plaques ("Midtown" & "Downtown") | EA | 3 |
| 37 | 4" Yellow Pavement Marking | LF | 4948 |
| 38 | 24" White Pavement Marking | LF | 339 |
| 39 | Left/Right/Through Turn Arrow White Pavement Marking Symbol | EA | 5 |
| 40 | 6" Dashed White Pavement Marking | LF | 1173 |
| 41 | 6" Solid White | LF | 2185 |
| 42 | Handicap Marking | EA | 8 |
| 43 | Rail Road Pavement Markings | EA | 4 |
| 44 | 9th ST Traffic Signal, Complete | LS | 1 |
| 45 | 10th ST Traffic Signal, Complete | LS | 1 |
| 46 | Street Lighting | LS | 1 |
| 47 | Tree Well Uplighting | LS | 1 |
| 48 | Traffic Control | LS | 1 |
| 49 | Tree Well (Downtown) (Inc. Tree Grate & Frame) | EA | 11 |
| 50 | Tree Well (Midtown) | EA | 16 |
| 51 | SilvaCell | CF | 13346 |
| 52 | Coal Schute Remediation | LS | 1 |

## 9TH ST - BID ALTERNATIVE QUANTITIES

| BID ITEM | DESCRITPION | UNIT | QUANTITY |
|---|---|---|---|
| 101 | Mobilization | LS | 1 |
| 102 | Contractor Furnished Construction Staking and Surveying | LS | 1 |
| 103 | Clearing & Grubbing / Tree & Brush Removal | LS | 1 |
| 104 | Full Depth Asphalt Demo | SY | 213 |
| 105 | Sidewalk & Drive Removal | SY | 741 |
| 106 | Curb & Gutter Removal | LF | 955 |
| 107 | Erosion Control | LS | 1 |
| 108 | 8" Limestone Base (Roadway) | SY | 216 |
| 109 | 2" Limestone Base (Sidewalk) | SY | 644 |
| 110 | 2" Asphalt Milling | SY | 1543 |
| 111 | Asphaltic Concrete Surface (2") (MoDOT BP-1) | TONS | 239 |
| 112 | Concrete Pavement (8") | SY | 216 |
| 113 | Class B Concrete Sidewalk (4") | SY | 644 |
| 114 | Commercial Driveway Construction (8" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base) | SY | 239 |
| 115 | Traffic Control | LS | 1 |
| 116 | Adjust Manhole | EA | 1 |

## 10TH ST - BID ALTERNATIVE QUANTITIES

| BID ITEM | DESCRITPION | UNIT | QUANTITY |
|---|---|---|---|
| 201 | Mobilization | LS | 1 |
| 202 | Contractor Furnished Construction Staking and Surveying | LS | 1 |
| 203 | Clearing & Grubbing / Tree & Brush Removal | LS | 1 |
| 204 | Full Depth Asphalt Demo | SY | 148 |
| 205 | Sidewalk & Drive Removal | SY | 332 |
| 206 | Curb & Gutter Removal | LF | 654 |
| 207 | Erosion Control | LS | 1 |
| 208 | 8" Limestone Base (Roadway) | SY | 79 |
| 209 | 2" Limestone Base (Sidewalk) | SY | 406 |
| 210 | 2" Asphalt Milling | SY | 1264 |
| 211 | Asphaltic Concrete Surface (2") (MoDOT BP-1) | TONS | 1264 |
| 212 | Concrete Pavement (8") | TONS | 79 |
| 213 | Class B Concrete Sidewalk (4") | SY | 406 |
| 214 | Commercial Driveway Construction (8" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base) | SY | 244 |
| 215 | Traffic Control | LS | 1 |
| 216 | Adjust Manhole | EA | 2 |

## 12TH ST - BID ALTERNATIVE QUANTITIES

| BID ITEM | DESCRITPION | UNIT | QUANTITY |
|---|---|---|---|
| 301 | Mobilization | LS | 1 |
| 302 | Contractor Furnished Construction Staking and Surveying | LS | 1 |
| 303 | Clearing & Grubbing / Tree & Brush Removal | LS | 1 |
| 304 | Full Depth Asphalt Demo | SY | 206 |
| 305 | Sidewalk & Drive Removal | SY | 582 |
| 306 | Curb & Gutter Removal | LF | 982 |
| 307 | Erosion Control | LS | 1 |
| 308 | 8" Limestone Base (Roadway) | SY | 187 |
| 309 | 2" Limestone Base (Sidewalk) | SY | 456 |
| 310 | 2" Asphalt Milling | SY | 1521 |
| 311 | Asphaltic Concrete Surface (2") (MoDOT BP-1) | TONS | 1521 |
| 312 | Concrete Pavement (8") | TONS | 187 |
| 313 | Class B Concrete Sidewalk (4") | SY | 456 |
| 314 | Commercial Driveway Construction (8" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base) | SY | 184 |
| 315 | Traffic Control | LS | 1 |
| 316 | Adjust Manhole | EA | 2 |

## 13TH ST - BID ALTERNATIVE QUANTITIES

| BID ITEM | DESCRITPION | UNIT | QUANTITY |
|---|---|---|---|
| 401 | Mobilization | LS | 1 |
| 402 | Contractor Furnished Construction Staking and Surveying | LS | 1 |
| 403 | Clearing & Grubbing / Tree & Brush Removal | LS | 1 |
| 404 | Full Depth Asphalt Demo | SY | 250 |
| 405 | Sidewalk & Drive Removal | SY | 729 |
| 406 | Curb & Gutter Removal | LF | 934 |
| 407 | Erosion Control | LS | 1 |
| 408 | 8" Limestone Base (Roadway) | SY | 247 |
| 409 | 2" Limestone Base (Sidewalk) | SY | 580 |
| 410 | 2" Asphalt Milling | SY | 1281 |
| 411 | Asphaltic Concrete Surface (2") (MoDOT BP-1) | TONS | 1281 |
| 412 | Concrete Pavement (8") | TONS | 247 |
| 413 | Class B Concrete Sidewalk (4") | SY | 580 |
| 414 | Commercial Driveway Construction (8" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base) | SY | 308 |
| 415 | Traffic Control | LS | 1 |
| 416 | Adjust Manhole | EA | 2 |

## 14TH ST - BID ALTERNATIVE QUANTITIES

| BID ITEM | DESCRITPION | UNIT | QUANTITY |
|---|---|---|---|
| 501 | Mobilization | LS | 1 |
| 502 | Contractor Furnished Construction Staking and Surveying | LS | 1 |
| 503 | Clearing & Grubbing / Tree & Brush Removal | LS | 1 |
| 504 | Full Depth Asphalt Demo | SY | 209 |
| 505 | Sidewalk & Drive Removal | SY | 747 |
| 506 | Curb & Gutter Removal | LF | 945 |
| 507 | Erosion Control | LS | 1 |
| 508 | 8" Limestone Base (Roadway) | SY | 218 |
| 509 | 2" Limestone Base (Sidewalk) | SY | 648 |
| 510 | 2" Asphalt Milling | SY | 1471 |
| 511 | Asphaltic Concrete Surface (2") (MoDOT BP-1) | TONS | 1471 |
| 512 | Concrete Pavement (8") | TONS | 218 |
| 513 | Class B Concrete Sidewalk (4") | SY | 648 |
| 514 | Commercial Driveway Construction (8" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base) | SY | 227 |
| 515 | Traffic Control | LS | 1 |
| 516 | Adjust Manhole | EA | 4 |


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|---|---|---|---|

REVISIONS

QUANTITY TABULATION SHEETS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_QTY01_02300893
date: 4.19.2026

SHEET
4 of 162

DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\RDBR\T_QTY01_02300893.dwg USER: rmoyfarth
DATE: Apr 19, 2026 12:50pm XREFS: T_PTBLK_02300893

| BASE BID STANDARD UPRIGHT CURB AND GUTTER | | | | | |
|---|---|---|---|---|---|
| STATION | STATION | LOCATION | SIDE | City of Joplin Standard (LN. FT.) | Spill Curb (LN. FT.) |
| 100+74.23 | 104+83.76 | MAIN ST (8th - 9th) | LT | 357.74 | |
| 100+78.05 | 104+83.30 | MAIN ST (8th - 9th) | RT | 336.15 | |
| 105+17.30 | 109+02.88 | MAIN ST (9th - 10th) | LT | 382.75 | |
| 105+17.76 | 109+01.94 | MAIN ST (9th - 10th) | RT | 408.04 | |
| 109+36.89 | 116+52.41 | MAIN ST (10th - 12th) | LT | 634.6 | |
| 110+89.24 | 116+51.35 | MAIN ST (10th - 12th) | RT | 393.6 | |
| 120+34.52 | 125+10.05 | MAIN ST (12th - 13th) | LT | 345.3 | |
| 120+35.37 | 120+48.31 | MAIN ST | RT | | 20.47 |
| 120+48.28 | 125+09.11 | MAIN ST (12th - 13th) | RT | 378.73 | |
| 125+43.50 | 128+04.50 | MAIN ST (13th - 14th) | LT | 267.37 | |
| 125+42.90 | 128+04.58 | MAIN ST (13th - 14th) | RT | 231.95 | |
| TOTAL | | | | 3736.23 | 20.47 |

| BASE BID STAMPED CONCRETE | | |
|---|---|---|
| LOCATION | CONCRETE PAVEMENT (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 10TH STREET CROSSWALKS | 132 | 132 |
| 10TH ST TO 12TH ST - RT | 127 | 127 |
| 10TH ST TO 12TH ST - LT | 175 | 175 |
| 12TH ST TO 13TH ST - RT | 106 | 106 |
| 12TH ST TO 13TH ST - LT | 81 | 81 |
| 13TH ST TO 14TH ST - RT | 130 | 130 |
| 13TH ST TO 14TH ST - LT | 108 | 108 |
| 14TH ST TO 15TH ST - RT | 73 | 73 |
| 14TH ST TO 15TH ST - LT | 87 | 87 |
| TOTAL | 1019 | 1019 |

| BASE BID BRICK PAVERS | | |
|---|---|---|
| LOCATION | BRICK PAVER (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 8TH ST TO 9TH ST - RT | 106 | 106 |
| 8TH ST TO 9TH ST - LT | 117 | 117 |
| 9TH ST TO 10TH ST - RT | 117 | 117 |
| 9TH ST TO 10TH ST - LT | 104 | 104 |
| 10TH ST TO 12TH ST - LT | 39 | 39 |
| TOTAL | 483 | 483 |

| BASE BID SIDEWALK RAMP | | |
|---|---|---|
| LOCATION | CONCRETE CURB RAMP (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 9TH ST INTERSECTION | 66.6 | 66.6 |
| 10TH ST INTERSECTION | 56.3 | 56.3 |
| 12TH ST INTERSECTION | 69 | 69 |
| 13TH ST INTERSECTION | 75 | 75 |
| 14TH ST INTERSECTION | 75.6 | 75.6 |
| TOTAL | 66.6 | 66.6 |

| BASE BID SIDEWALK | | |
|---|---|---|
| LOCATION | CONCRETE SIDEWALK (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 8TH ST TO 9TH ST - RT | 303 | 303 |
| 8TH ST TO 9TH ST - LT | 324 | 324 |
| 9TH ST TO 10TH ST - RT | 358 | 358 |
| 9TH ST TO 10TH ST - LT | 290 | 290 |
| 10TH ST TO 12TH ST - RT | 296 | 296 |
| 10TH ST TO 12TH ST - LT | 440 | 440 |
| 12TH ST TO 13TH ST - RT | 209 | 209 |
| 12TH ST TO 13TH ST - LT | 157 | 157 |
| 13TH ST TO 14TH ST - RT | 271 | 271 |
| 13TH ST TO 14TH ST - LT | 247 | 247 |
| 14TH ST TO 15TH ST - RT | 219 | 219 |
| 14TH ST TO 15TH ST - LT | 172 | 172 |
| TOTAL | 3286 | 3286 |

| STRIPING QUANTITIES | | |
|---|---|---|
| LAYER/TYPE | LENGTH | UNITS |
| 4" BROKEN WHITE | 1378 | FT |
| 4" SOLID YELLOW | 5246 | FT |
| 6" WHITE PARKING STRIPE | 1050 | FT |
| CROSS WALK STRIPE | 1791 | FT |
| 4" SOLID WHITE | 282 | FT |
| 24" STOP BAR | 304 | FT |

| BASE BID ASPHALT SURFACING QUANTITIES | | | | | | |
|---|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | ASPHALTIC CONCRETE SURFACE (2") (TONS)* | ASPHALT TACK COAT (GAL.)** | MILL & OVERLAY ASPHALT SURFACE (2") (SQ. YD.) |
| 100+81.92 | 107+87.92 | MAIN STREET | NORTH | 507.0 | 720.4 | 4503 |
| 110+86.51 | 128+04.54 | MAIN STREET | SOUTH | 1273.0 | 1809.2 | 11308 |
| | | | TOTALS | 1780.0 | 2529.6 | 15811 |

| BASE BID CONCRETE SURFACING QUANTITIES | | | | | |
|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | CONCRETE PAVEMENT (8") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (4") (SQ. YD.) |
| 100+81.92 | 107+87.92 | BASE BID (PAVEMENT REPAIR) | NORTH | 320.1 | 320.1 |
| 110+84.20 | 128+04.53 | BASE BID (PAVEMENT REPAIR) | SOUTH | 1123.9 | 1123.9 |
| 107+87.92 | 110+54.80 | BASE BID (INTERSECTION 10TH AND MAIN) MAIN | NORTH | 2144.8 | 2144.8 |
| TOTALS | | | | 3588.8 | 3588.8 |

| MAIN STREET DEMOLITION | | |
|---|---|---|
| 2" ASPHALT MILLING | 14327 | SY |
| FULL DEPTH ASPHALT REMOVAL | 3539 | SY |
| SIDEWALK & DRIVE REMOVAL | 5672 | SY |
| CURB & GUTTER REMOVAL | 5398 | LF |

| ADJUSTMENT OF MANHOLES | | | |
|---|---|---|---|
| STATION | LOCATION | SIDE | EACH |
| 118+55.81 | MAIN STREET | LT | 1 |
| 119+06.58 | MAIN STREET | RT | 1 |
| | TOTAL | | 2 |

| BASE BID SEEDING | | | | |
|---|---|---|---|---|
| STATION | STATION | LOCATION | SIDE | SQ FT |
| 109+42.89 | 109+61.31 | MAIN STREET | LT | 210 |
| 110+04.57 | 110+52.43 | MAIN STREET | LT | 239 |
| 109+49.14 | 110+67.80 | MAIN STREET | RT | 581 |
| 110+90.27 | 112+21.23 | MAIN STREET | RT | 633 |
| 110+98.24 | 111+85.28 | MAIN STREET | LT | 435 |
| 112+11.98 | 112+49.56 | MAIN STREET | LT | 191 |
| 114+21.83 | 116+43.07 | MAIN STREET | LT | 1163 |
| 119+74.40 | 119+87.90 | MAIN STREET | LT | 132 |
| 120+47.50 | 120+72.11 | MAIN STREET | LT | 186 |
| 122+31.99 | 122+91.80 | MAIN STREET | LT | 253 |
| 123+27.44 | 124+84.45 | MAIN STREET | LT | 834 |
| TOTAL | | | | 4857 |

| STORM SEWER STRUCTURES & PIPE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATION | STATION | LOCATION | SIDE | STRUCTURE NO. | JUNCTION BOX (3'x3') (Each) | INLET (CURB) (2'x3') TYPE A (Each) | INLET (CURB) (3'x4.5') MODIFIED (Each) | TYPE D CURB INLET | TYPE C INLET | 48" MANHOLE | RCP 15" (Ft.) | RCP 18" (FT) |
| 125+61.36 | | Main Street | LT | A1 | | 1 | | | | | | |
| 125+61.36 | 125+42.05 | Main Street | | P-1 | | | | | | | 16.6 | |
| 125+42.05 | | Main Street | LT | A2 | 1 | | | | | | | |
| 125+42.02 | 125+41.98 | Main Street | | P-2 | | | | | | | 18.39 | |
| 125+41.98 | | Main Street | LT | A3 | | | 1 | | | | | |
| | | | | | | | | | | | | |
| 100+82 | | Main Street | RT | | | | | | 1 | | | |
| | | | | | | | | | | | | |
| 108+90 | | Main Street | LT | | | 1 | | | | | | |
| 108+90 | 109+40 | Main Street | LT | | | | | | | | 44 | |
| | | | | | | | | | | | | |
| 109+55 | | Main Street | LT | | | 1 | | | | | | |
| | | | | | | | | | | | | |
| 111+32.45 | | Main Street | RT | C2 | | | | 1 | | | | |
| 111+32.45 | 111+32.45 | Main Street | | P-2 (1) | | | | | | | | 54.51 |
| 111+32.45 | | Main Street | LT | C1 | | | | 1 | | | | |
| 111+32.45 | 111+69.18 | Main Street | | P-2 (2) | | | | | | | | 36.67 |
| | | | | | | | | | | | | |
| 602+94.99 | | 13th Street | RT | B1 | | 1 | | | | | | |
| 602+94.99 | 603+87.36 | 13th Street | | P-3 | | | | | | | | 88.53 |
| 603+87.36 | | 13th Street | RT | B2 | | 1 | | | | | | |
| 603+85.36 | 603+52.50 | 13th Street | | P-4 | | | | | | | | 15.88 |
| 603+85.50 | | 13th Street | LT | B3 | | | | | | 1 | | |
| 603+85.50 | 606+31.32 | 13th Street | | P5 | | | | | | | | 240.98 |
| 606+31.32 | | 13th Street | LT | B4 | | | | | | 1 | | |
| | | | | | | | | | | | | |
| TOTAL | | | | | 1 | 5 | 1 | 2 | 1 | 2 | 78.99 | 436.57 |

| SLIVA CELL | | | |
|---|---|---|---|
| STATION | SIDE | # PER | CU. YD. 2X |
| 101+17 | RT | 19 | 508 |
| 101+99 | LT | 14 | 377 |
| 103+20 | LT | 17 | 444 |
| 103+50 | RT | 10 | 457 |
| 103+92 | LT | 17 | 457 |
| 104+16 | RT | 10 | 457 |
| 105+78 | LT | 19 | 516 |
| 106+25 | RT | 19 | 508 |
| 106+97 | RT | 19 | 508 |
| 107+45 | LT | 17 | 457 |
| 108+27 | LT | 17 | 444 |
| 113+10 | RT | 17 | 516 |
| 114+25 | RT | 17 | 516 |
| 114+75 | LT | 17 | 516 |
| 115+72 | RT | 17 | 516 |
| 115+44 | LT | 17 | 516 |
| 117+34 | LT | 17 | 516 |
| 117+97 | RT | 17 | 516 |
| 118+94 | LT | 17 | 516 |
| 121+50 | LT | 16 | 473 |
| 121+99 | RT | 17 | 516 |
| 122+53 | LT | 17 | 516 |
| 123+68 | LT | 17 | 516 |
| 124+65 | LT | 17 | 516 |
| 126+44 | LT | 17 | 516 |
| 127+02 | RT | 17 | 516 |
| 127+85 | LT | 17 | 516 |
| TOTAL | | 449 | 13346 |

| BASE BID INLET PROTECTION (EXISTING STRUCTURES) | | | |
|---|---|---|---|
| STATION | LOCATION | SIDE | EA |
| 100+61 | MAIN STREET | RT | 1 |
| 100+79 | MAIN STREET | RT | 1 |
| 108+93 | Main Street | RT | 1 |
| 109+52 | Main Street | LT | 1 |
| 109+69 | Main Street | RT | 1 |
| 110+44 | Main Street | RT | 1 |
| 110+50 | Main Street | LT | 1 |
| 111+88 | Main Street | RT | 1 |
| 112+60 | Main Street | RT | 1 |
| 112+61 | Main Street | LT | 1 |
| 125+61 | Main Street | LT | 1 |
| 401+97 | 10th Street | LT | 1 |
| 402+03 | 10th Street | RT | 1 |
| 402+91 | 10th Street | RT | 1 |
| 406+25 | 10th Street | LT | 1 |
| 506+25 | 12th Street | LT | 1 |
| 506+25 | 12th Street | RT | 1 |
| 602+96 | 13th Street | RT | 1 |
| 603+84 | 13th Street | RT | 1 |
| 606+30 | 13th Street | RT | 1 |
| 606+30 | 13th Street | RT | 1 |
| 701+07 | 14th Street | RT | 1 |
| 703+92 | 14th Street | RT | 1 |
| TOTAL | | | 23 |

| BASE BID COMMERCIAL DRIVEWAYS | | |
|---|---|---|
| LOCATION | MODOT TYPE 1 AGGREGATE SURFACE (6") (SQ. YD.) | CONCRETE PAVEMENT (8") (SQ. YD.) |
| STA 101+28 LT | 57.0 | 57.0 |
| STA 101+89 RT | 53.0 | 53.0 |
| STA 103+17 RT | 54.0 | 54.0 |
| STA 108+00 LT | 55.0 | 55.0 |
| STA 108+88 RT | 49.0 | 49.0 |
| STA 111+98 LT | 53.0 | 53.0 |
| STA 112+34 RT | 53.0 | 53.0 |
| STA 113+68 RT | 71.0 | 71.0 |
| STA 114+12 LT | 39.0 | 39.0 |
| STA 114+73 RT | 43.0 | 43.0 |
| STA 115+13 RT | 43.0 | 43.0 |
| STA 116+03 RT | 44.0 | 44.0 |
| STA 119+45 LT | 57.0 | 57.0 |
| STA 120+82 LT | 45.0 | 45.0 |
| STA 121+22 LT | 50.0 | 50.0 |
| STA 123+09 LT | 67.0 | 67.0 |
| STA 124+06 RT | 55.0 | 55.0 |
| STA 124+57 RT | 48.0 | 48.0 |
| STA 126+25 RT | 47.0 | 47.0 |
| TOTAL BASE BID | 983.0 | 983.0 |

| BASE BID MOSAIC PAVERS | | |
|---|---|---|
| LOCATION | CONCRETE SIDEWALK (4") (SQ. FT.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| STA 118+95 LT | 42 | 4.7 |
| STA 120+65 RT | 42 | 4.7 |
| STA 123+65 RT | 42 | 4.7 |
| STA 125+65 RT | 42 | 4.7 |
| STA 113+40 LT | 42 | 4.7 |
| TOTAL | 210 | 23.5 |


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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

QUANTITY TABULATION SHEETS
BASE BID (MAIN STREET)

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_QTY01_02300893
date: 4.19.2026

SHEET
5 of 162

DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\RDBR\T_QTY01_02300893.dwg
DATE: Apr 19, 2026 12:50pm
XREFS: T_PTBLK_02300893
USER: mmayfarth

| 9TH STREET ADD ALTERNATE ASPHALT SURFACING QUANTITIES | | | | | | |
|---|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | ASPHALTIC CONCRETE SURFACE (2") (TONS)* | ASPHALT TACK COAT (GAL.)** | MILL & OVERLAY ASPHALT SURFACE (2") (SQ. YD.) |
| 300+51.11 | 302+89.13 | 9TH ST ADD ALT | WEST | 87.0 | 123.2 | 770 |
| 303+94.14 | 306+33.22 | 9TH ST ADD ALT | EAST | 87.0 | 123.6 | 773 |
| | | | TOTALS | 174.0 | 246.8 | 1543 |

| 9TH STREET ALTERNATE CONCRETE SURFACING QUANTITIES | | | | | |
|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | CONCRETE PAVEMENT (8") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (4") (SQ. YD.) |
| 300+51.11 | 302+89.13 | 9TH ST ADD ALT | WEST | 107.2 | 107.2 |
| 303+94.17 | 306+33.22 | 9TH ST ADD ALT | EAST | 108.4 | 108.4 |
| TOTALS | | | | 215.6 | 215.6 |

| STANDARD UPRIGHT CURB AND GUTTER 9th STREET | | | | |
|---|---|---|---|---|
| STATION | STATION | LOCATION | SIDE | City of Joplin Standard (LN. FT.) |
| 300+56.16 | 301+34.99 | 9th | LT | 78.85 |
| 301+55.01 | 301+67.19 | 9th | LT | 12.18 |
| 301+97.19 | 302+89.13 | 9th | LT | 91.94 |
| 300+56.07 | 301+67.07 | 9th | RT | 111 |
| 301+97.07 | 302+89.13 | 9th | RT | 92.06 |
| 303+94.12 | 304+87.50 | 9th | LT | 93.38 |
| 305+17.50 | 305+81.28 | 9th | LT | 63.79 |
| 306+11.28 | 306+28.22 | 9th | LT | 16.93 |
| 303+94.23 | 304+87.66 | 9th | RT | 93.43 |
| 305+17.66 | 306+28.22 | 9th | RT | 110.56 |
| | | | TOTAL | 764.12 |

| 9TH STREET COMMERCIAL DRIVEWAYS | | |
|---|---|---|
| LOCATION | MODOT TYPE 1 AGGREGATE SURFACE (6") (SQ. YD.) | CONCRETE PAVEMENT (8") (SQ. YD.) |
| STA 301+45 LT | 24.0 | 24.0 |
| STA 301+82 LT | 35.0 | 35.0 |
| STA 301+82 RT | 35.0 | 35.0 |
| STA 305+03 LT | 34.0 | 34.0 |
| STA 305+03 RT | 34.0 | 34.0 |
| STA 305+56 RT | 43.0 | 43.0 |
| STA 305+96 LT | 34.0 | 34.0 |
| 9TH ST ADD ALT TOTAL | 239.0 | 239.0 |

| 9TH STREET ALTERNATE SIDEWALK | | |
|---|---|---|
| LOCATION | CONCRETE SIDEWALK (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 9TH ST ADD ALT | 644 | 644 |
| TOTAL | 644 | 644 |

| 9TH STREET DEMOLITION | | |
|---|---|---|
| 2" ASPHALT MILLING | 1328 | SY |
| FULL DEPTH ASPHALT REMOVAL | 213 | SY |
| SIDEWALK & DRIVE REMOVAL | 741 | SY |
| CURB & GUTTER REMOVAL | 955 | LF |

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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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REVISIONS

QUANTITY TABULATION SHEETS
9TH STREET BID ALTERNATIVE 1

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_QTY01_02300893
date: 4.19.2026



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DATE: Apr 19, 2026 12:50pm XREFS: T_PTBLK_02300893

| 10TH STREET ADD ALTERNATE ASPHALT SURFACING QUANTITIES | | | | | | |
|---|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | ASPHALTIC CONCRETE SURFACE (2") (TONS)* | ASPHALT TACK COAT (GAL.)** | MILL & OVERLAY ASPHALT SURFACE (2") (SQ. YD.) |
| 400+61.89 | 402+50.82 | 10TH ST ADD ALT | WEST | 68.0 | 95.5 | 597 |
| 404+28.45 | 406+29.27 | 10TH ST ADD ALT | EAST | 75.0 | 106.6 | 667 |
| | | | TOTALS | 143.0 | 202.1 | 1264 |

| 10TH STREET ALTERNATE CONCRETE SURFACING QUANTITIES | | | | | |
|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | CONCRETE PAVEMENT (8") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (4") (SQ. YD.) |
| 400+61.93 | 402+50.82 | 10TH ST ADD ALT | WEST | 79.1 | 79.1 |
| 404+28.45 | 406+29.26 | 10TH ST ADD ALT | EAST | 75.8 | 75.8 |
| | | | TOTALS | 79.1 | 79.1 |

| STANDARD UPRIGHT CURB AND GUTTER 10th STREET | | | | |
|---|---|---|---|---|
| STATION | STATION | LOCATION | SIDE | City of Joplin Standard (LN. FT.) |
| 400+66.86 | 401+65.87 | 10th | LT | 99.01 |
| 401+95.86 | 402+88.40 | 10th | LT | 92.53 |
| 400+66.86 | 401+76.16 | 10th | RT | 109.29 |
| 404+19.20 | 404+51.03 | 10th | LT | 31.84 |
| 405+16.80 | 405+52.38 | 10th | LT | 35.58 |
| 405+88.37 | 406+35.05 | 10th | LT | 46.6 |
| 404+19.20 | 406+29.27 | 10th | RT | 210.15 |
| | | | TOTAL | 625 |

| 10TH STREET COMMERCIAL DRIVEWAYS | | |
|---|---|---|
| LOCATION | MODOT TYPE 1 AGGREGATE SURFACE (6") (SQ. YD.) | CONCRETE PAVEMENT (8") (SQ. YD.) |
| STA 401+38 LT | 30.0 | 30.0 |
| STA 401+80 LT | 33.0 | 33.0 |
| STA 402+24 LT | 52.0 | 52.0 |
| STA 404+84 LT | 82.0 | 82.0 |
| STA 405+70 LT | 47.0 | 47.0 |
| 10TH ST ADD ALT TOTAL | 244.0 | 244.0 |

| 10TH STREET ALTERNATE SIDEWALK | | |
|---|---|---|
| | CONCRETE SIDEWALK (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 10TH ST ADD ALT | 406 | 406 |
| TOTAL | 406 | 406 |

| 10TH STREET DEMOLITION | | |
|---|---|---|
| 2" ASPHALT MILLING | 1115 | SY |
| FULL DEPTH ASPHALT REMOVAL | 148 | SY |
| SIDEWALK & DRIVE REMOVAL | 332 | SY |
| CURB & GUTTER REMOVAL | 654 | LF |


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PROFESSIONAL ENGINEER

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QUANTITY TABULATION SHEETS
10TH STREET BID ALTERNATIVE 1

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_QTY01_02300893
date: 4.19.2026




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DATE: Apr 19, 2026 12:51pm XREFS: T_PTBLK_02300893

| 12TH STREET ADD ALTERNATE ASPHALT SURFACING QUANTITIES | | | | | | |
|---|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | ASPHALTIC CONCRETE SURFACE (2") (TONS)* | ASPHALT TACK COAT (GAL.)** | MILL & OVERLAY ASPHALT SURFACE (2") (SQ. YD.) |
| 500+50.15 | 502+88.03 | 12TH ST ADD ALT | WEST | 90.0 | 127.3 | 796 |
| 503+95.03 | 506+33.70 | 12TH ST ADD ALT | EAST | 82.0 | 115.9 | 725 |
| | | | TOTALS | 172.0 | 243.2 | 1521 |

| 12TH STREET ALTERNATE CONCRETE SURFACING QUANTITIES | | | | | |
|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | CONCRETE PAVEMENT (8") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (4") (SQ. YD.) |
| 500+39.92 | 502+88.03 | 12TH ST ADD ALT | WEST | 131.3 | 131.3 |
| 503+95.02 | 506+33.70 | 12TH ST ADD ALT | EAST | 55.6 | 55.6 |
| TOTALS | | | | 186.9 | 186.9 |

| STNADARD UPRIGHT CURB AND GUTTER 12th STREET | | | | |
|---|---|---|---|---|
| STATION | STATION | LOCATION | SIDE | City of Joplin Standard (LN. FT.) |
| 500+55.03 | 501+27.09 | 12th | LT | 112.06 |
| 501+53.09 | 501.67.09 | 12th | LT | 13.99 |
| 501+97.09 | 502+88.04 | 12th | LT | 90.95 |
| 500+55.27 | 501+66.73 | 12th | RT | 111.46 |
| 501+96.73 | 502+88.03 | 12th | RT | 91.29 |
| 503+95.03 | 504+91.13 | 12th | RT | 93.98 |
| 505+19.41 | 506+24.76 | 12th | RT | 107.8 |
| | | | TOTAL | 621.53 |

| 12TH STREET COMMERCIAL DRIVEWAYS | | |
|---|---|---|
| LOCATION | MODOT TYPE 1 AGGREGATE SURFACE (6") (SQ. YD.) | CONCRETE PAVEMENT (8") (SQ. YD.) |
| STA 501+40 LT | 30.0 | 30.0 |
| STA 501+82 LT | 35.0 | 35.0 |
| STA 501+82 RT | 35.0 | 35.0 |
| STA 504+45 RT | 44.0 | 44.0 |
| STA 505+05 RT | 40.0 | 40.0 |
| 12TH ST ADD ALT TOTAL | 184.0 | 184.0 |

| 12TH STREET ALTERNATE SIDEWALK | | |
|---|---|---|
| LOCATION | CONCRETE SIDEWALK (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 12TH ST ADD ALT | 456 | 456 |
| TOTAL | 456 | 456 |

| 12TH STREET ALTERNATE SIDEWALK RAMP | | |
|---|---|---|
| LOCATION | CONCRETE CURB RAMP (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 12TH STREET | 19.8 | 19.8 |
| TOTAL | 19.8 | 19.8 |

| 12TH STREET DEMOLITION | | |
|---|---|---|
| 2" ASPHALT MILLING | 1281 | SY |
| FULL DEPTH ASPHALT REMOVAL | 206 | SY |
| SIDEWALK & DRIVE REMOVAL | 582 | SY |
| CURB & GUTTER REMOVAL | 982 | LF |

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| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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QUANTITY TABULATION SHEETS
12TH STREET BID ALTERNATIVE 1

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_QTY01_02300893
date: 4.19.2026



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DATE: Apr 19, 2026 12:51pm XREFS: T_PTBLK_02300893

| 13TH STREET ADD ALTERNATE ASPHALT SURFACING QUANTITIES | | | | | | |
|---|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | ASPHALTIC CONCRETE SURFACE (2") (TONS)* | ASPHALT TACK COAT (GAL.)** | MILL & OVERLAY ASPHALT SURFACE (2") (SQ. YD.) |
| 600+49.42 | 602+87.56 | 13TH ST ADD ALT | WEST | 89.0 | 126.2 | 789 |
| 603+92.57 | 606+32.53 | 13TH ST ADD ALT | EAST | 56.0 | 78.6 | 492 |
| | | | TOTALS | 145.0 | 204.8 | 1281 |

| 13TH STREET ALTERNATE CONCRETE SURFACING QUANTITIES | | | | | |
|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | CONCRETE PAVEMENT (8") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (4") (SQ. YD.) |
| 600+36.36 | 602+87.69 | 13TH ST ADD ALT | WEST | 132.2 | 132.2 |
| 603+92.55 | 606+32.53 | 13TH ST ADD ALT | EAST | 114.3 | 114.3 |
| TOTALS | | | | 246.5 | 246.5 |

| STANDARD UPRIGHT CURB AND GUTTER 13th STREET | | | | |
|---|---|---|---|---|
| STATION | STATION | LOCATION | SIDE | City of Joplin Standard (LN. FT.) |
| 600+54.41 | 601+64.99 | 13th | LT | 115.52 |
| 600+41.06 | 600+42.20 | 13th | LT | 5.38 |
| 601.94.99 | 602+87.71 | 13th | LT | 92.72 |
| 500+42.22 | 600+40.83 | 13th | RT | 6.16 |
| 600+54.42 | 601+65.26 | 13th | RT | 116.52 |
| 601+95.26 | 602+87.42 | 13th | RT | 92.15 |
| 603+92.54 | 604+81.46 | 13th | LT | 91.17 |
| 605+09.99 | 606+26.50 | 13th | LT | 112.34 |
| 603+92.59 | 604+90.17 | 13th | RT | 93.52 |
| 605+22.24 | 605+69.69 | 13th | RT | 47.43 |
| 605+89.20 | 606+24.67 | 13th | RT | 35.47 |
| | | | TOTAL | 808.38 |

| 13TH STREET ALTERNATE SIDEWALK | | |
|---|---|---|
| LOCATION | CONCRETE SIDEWALK (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 13TH ST ADD ALT | 580 | 580 |
| TOTAL | 580 | 580 |

| 13TH STREET DEMOLITION | | |
|---|---|---|
| 2" ASPHALT MILLING | 1101 | SY |
| FULL DEPTH ASPHALT REMOVAL | 250 | SY |
| SIDEWALK & DRIVE REMOVAL | 729 | SY |
| CURB & GUTTER REMOVAL | 934 | LF |

| 13TH STREET ALTERNATE SIDEWALK RAMP | | |
|---|---|---|
| LOCATION | CONCRETE CURB RAMP (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 13TH STREET | 18.4 | 18.4 |
| TOTAL | 18.4 | 18.4 |


| 13TH STREET DEMOLITION | | |
|---|---|---|
| 2" ASPHALT MILLING | 1101 | SY |
| FULL DEPTH ASPHALT REMOVAL | 250 | SY |
| SIDEWALK & DRIVE REMOVAL | 729 | SY |
| CURB & GUTTER REMOVAL | 934 | LF |


| 13TH STREET COMMERCIAL DRIVEWAYS | | |
|---|---|---|
| LOCATION | MODOT TYPE 1 AGGREGATE SURFACE (6") (SQ. YD.) | CONCRETE PAVEMENT (8") (SQ. YD.) |
| STA 601+80 LT | 35.0 | 35.0 |
| STA 601+80 RT | 36.0 | 36.0 |
| STA 604+40 LT | 36.0 | 36.0 |
| STA 604+64 RT | 36.0 | 36.0 |
| STA 604+96 LT | 44.0 | 44.0 |
| STA 605+04 RT | 98.0 | 98.0 |
| STA 605+79 RT | 23.0 | 23.0 |
| 13TH ST ADD ALT TOTAL | 308.0 | 308.0 |


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STATE OF MISSOURI
MICHAEL J. MAYFARTH
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4/27/2026
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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QUANTITY TABULATION SHEETS
13TH STREET BID ALTERNATIVE 1

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_QTY01_02300893
date: 4.19.2026




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DATE: Apr 19, 2026 12:51pm XREFS: T_PTBLK_02300893

| 14TH STREET ADD ALTERNATE ASPHALT SURFACING QUANTITIES | | | | | | |
|---|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | ASPHALTIC CONCRETE SURFACE (2") (TONS)* | ASPHALT TACK COAT (GAL.)** | MILL & OVERLAY ASPHALT SURFACE (2") (SQ. YD.) |
| 700+50.25 | 702+89.48 | 14TH ST ADD ALT | WEST | 87.0 | 123.6 | 773 |
| 703+95.63 | 706+32.45 | 14TH ST ADD ALT | EAST | 78.5 | 111.6 | 697.8 |
| | | | TOTALS | 165.5 | 235.2 | 1471 |

| 14TH STREET ALTERNATE CONCRETE SURFACING QUANTITIES | | | | | |
|---|---|---|---|---|---|
| STATION TO STATION | | LOCATION | SIDE | CONCRETE PAVEMENT (8") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (4") (SQ. YD.) |
| 700+50.25 | 702+89.42 | 14TH ST ADD ALT | WEST | 108.6 | 108.6 |
| 703+92.39 | 706+32.36 | 14TH ST ADD ALT | EAST | 109.0 | 109.0 |
| | | | TOTALS | 217.6 | 217.6 |

| STANDARD UPRIGHT CURB AND GUTTER 14th STREET | | | | |
|---|---|---|---|---|
| STATION | STATION | LOCATION | SIDE | City of Joplin Standard (LN. FT.) |
| 700+55.22 | 702+89.28 | 14th | LT | 234.07 |
| 700+55.28 | 701+67 | 14th | RT | 111.72 |
| 701+97 | 702+89.73 | 14th | RT | 92.66 |
| 703+92.35 | 704+86.85 | 14th | LT | 94.48 |
| 705+16.80 | 706+25.57 | 14th | LT | 108.77 |
| 703+95.83 | 704+86.89 | 14th | RT | 91.07 |
| 705+16.89 | 706+25.61 | 14th | RT | 108.73 |
| | | | TOTAL | 841.5 |

| 14TH STREET ALTERNATE SIDEWALK | | |
|---|---|---|
| LOCATION | CONCRETE SIDEWALK (4") (SQ. YD.) | MODOT TYPE 5 AGGREGATE BASE (2") (SQ. YD.) |
| 14TH ST ADD ALT | 648 | 648 |
| TOTAL | 648 | 648 |

| 14TH STREET COMMERCIAL DRIVEWAYS | | |
|---|---|---|
| LOCATION | MODOT TYPE 1 AGGREGATE SURFACE (6") (SQ. YD.) | CONCRETE PAVEMENT (8") (SQ. YD.) |
| STA 701+82 RT | 36.0 | 36.0 |
| STA 704+18 RT | 42.0 | 42.0 |
| STA 704+66 RT | 33.0 | 33.0 |
| STA 705+00 LT | 79.0 | 79.0 |
| STA 705+02 RT | 37.0 | 37.0 |
| 14TH ST ADD ALT TOTAL | 227.0 | 227.0 |

| 14TH STREET DEMMOLITION | | |
|---|---|---|
| 2" ASPHALT MILLING | 1239 | SY |
| FULL DEPTH ASPHALT REMOVAL | 209 | SY |
| SIDEWALK & DRIVE REMOVAL | 747 | SY |
| CURB & GUTTER REMOVAL | 945 | LF |


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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/21/2026
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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QUANTITY TABULATION SHEETS
14TH STREET BID ALTERNATIVE 1

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

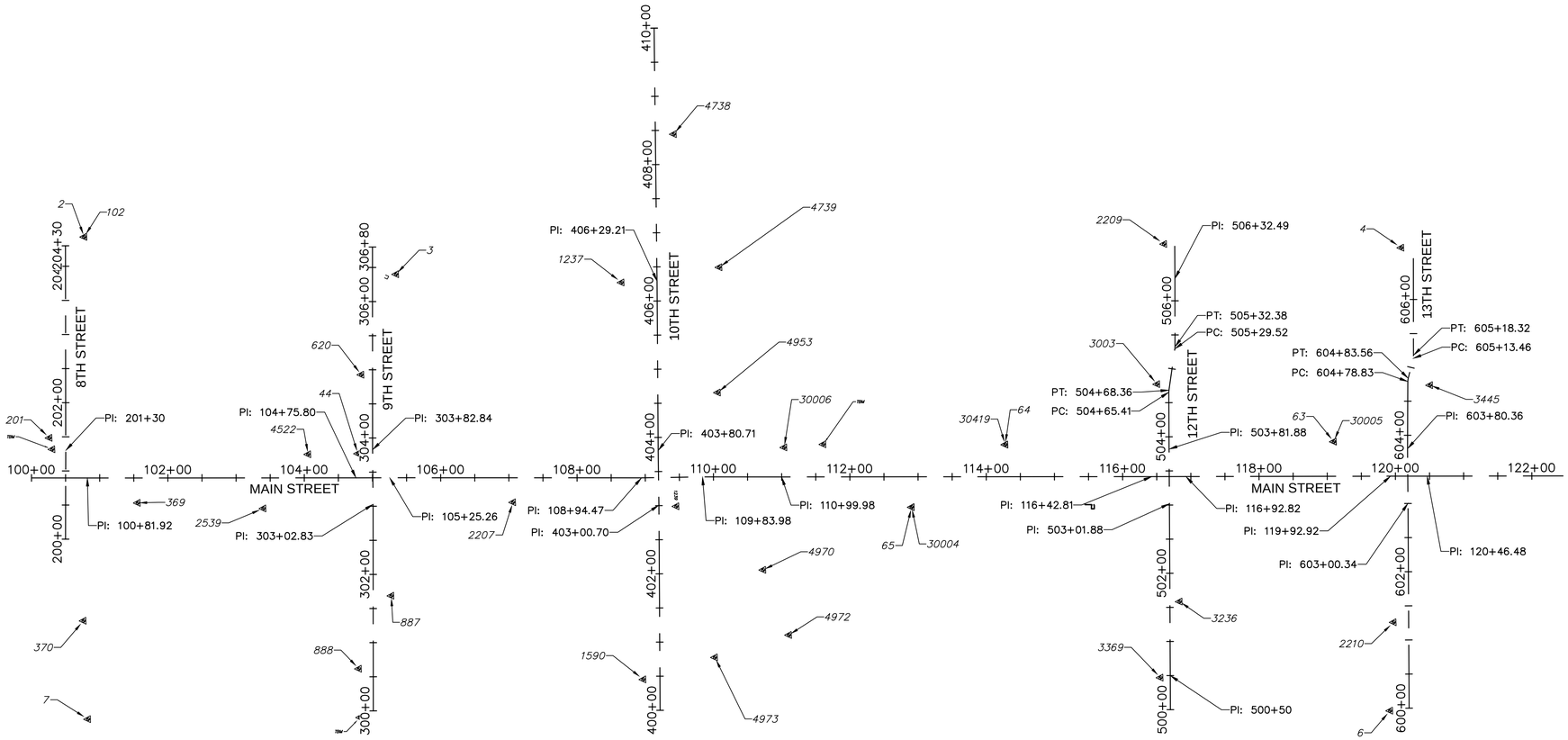
JOPLIN, MO

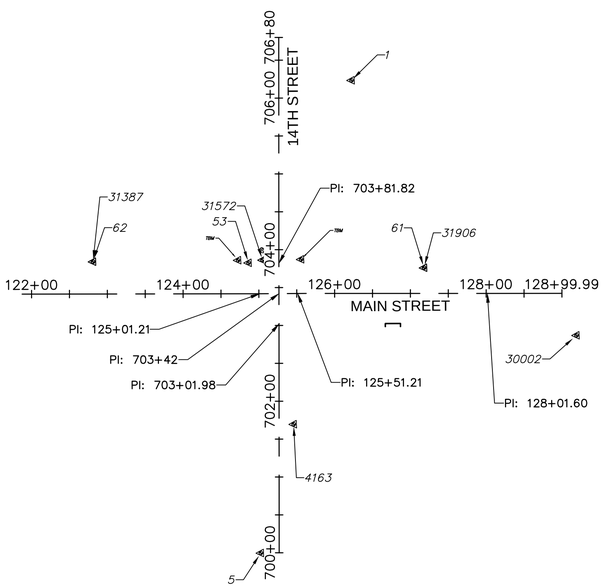
2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_QTY01_02300893
date: 4.19.2026




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DATE: Apr 19, 2026 12:51pm XREFS: T_PTBLK_02300893




| POINT TABLE | | | | |
|---|---|---|---|---|
| POINT # | NORTHING | EASTING | ELEVATION | FULL DESCRIPTION |
| 1 | 330933.4550 | 2784945.5270 | 1016.215 | CTL 5/8I IP |
| 2 | 333474.2540 | 2785106.8420 | 1006.825 | CTL 5/8IN IP W/ CAP |
| 3 | 333019.3660 | 2785035.3830 | 1010.437 | CTL 60D |
| 4 | 331544.9510 | 2785020.3850 | 1011.037 | CTL 60D |
| 5 | 331075.8460 | 2784326.5500 | 1015.805 | CTL 60D |
| 6 | 331586.0540 | 2784342.7750 | 1013.027 | CTL 60D |
| 7 | 333494.5240 | 2784400.1310 | 1009.475 | CTL PIN |
| 8 | 333750.0160 | 2784471.0350 | 1005.458 | CTL CROW FT |
| 44 | 333084.7890 | 2784774.7030 | 1012.004 | CTL FND PK |
| 53 | 331078.1000 | 2784709.8390 | 1017.409 | CTL 60D |
| 60 | 331059.4730 | 2784712.8610 | 1017.105 | CTL PK JET |
| 61 | 330846.8980 | 2784694.8610 | 1017.694 | CTL JET 31906 |
| 62 | 331283.2660 | 2784718.7750 | 1015.713 | CTL JET 31387 |
| 63 | 331654.1760 | 2784739.9300 | 1012.388 | CTL JET 30005 |
| 64 | 332135.7330 | 2784753.1630 | 1010.285 | CTL JET 30419 |
| 65 | 332276.2400 | 2784666.5390 | 1007.929 | CTL JET 30004 |
| 102 | 333474.2560 | 2785106.8460 | 1006.815 | CTL 5/8IN IP W/ CAP |
| 201 | 333536.0210 | 2784814.2850 | 1008.018 | CTL CROSS |
| 369 | 333410.1510 | 2784714.3210 | 1009.452 | CTL CROSS |
| 370 | 333495.8550 | 2784544.5340 | 1009.309 | CTL PK |

| POINT TABLE | | | | |
|---|---|---|---|---|
| POINT # | NORTHING | EASTING | ELEVATION | FULL DESCRIPTION |
| 580 | 333532.4090 | 2784797.4430 | 1010.047 | TBM |
| 620 | 333075.6830 | 2784890.0890 | 1011.099 | CTL PK |
| 887 | 333043.4860 | 2784564.6950 | 1011.462 | CTL PK |
| 888 | 333094.9360 | 2784459.4710 | 1011.126 | CTL PK |
| 1119 | 333095.8310 | 2784388.1210 | 1013.457 | TBM |
| 1237 | 332689.4320 | 2785011.2090 | 1004.563 | CTL 5/8IN IP W/ CAP |
| 1239 | 332621.0300 | 2784680.4650 | 1006.620 | CTL PK |
| 1590 | 332678.7070 | 2784428.6270 | 1008.179 | CTL 60D |
| 2207 | 332860.1040 | 2784695.0640 | 1009.394 | CTL 60D |
| 2209 | 331892.2990 | 2785038.5280 | 1008.596 | CTL PK |
| 2210 | 331576.2560 | 2784472.1470 | 1013.035 | CTL 60D |
| 2539 | 333226.2780 | 2784699.4170 | 1011.140 | CTL PK |
| 3003 | 331909.9850 | 2784833.5910 | 1010.671 | CTL 60D |
| 3236 | 331888.6170 | 2784513.8880 | 1010.967 | CTL PK |
| 3369 | 331920.7790 | 2784403.5150 | 1010.190 | CTL PK |
| 3445 | 331510.1020 | 2784817.4960 | 1012.755 | CTL 60D |
| 4162 | 331008.6980 | 2784711.8350 | 1018.406 | TBM |
| 4163 | 331026.3280 | 2784494.7950 | 1016.555 | CTL 60D |
| 4522 | 333157.7520 | 2784776.3840 | 1011.528 | CTL 60D |
| 4738 | 332604.8960 | 2785225.7400 | 1004.514 | CTL 60D |

| POINT TABLE | | | | |
|---|---|---|---|---|
| POINT # | NORTHING | EASTING | ELEVATION | FULL DESCRIPTION |
| 4739 | 332545.1660 | 2785028.3130 | 1004.970 | CTL 60D |
| 4953 | 332554.1880 | 2784844.8670 | 1005.549 | CTL 60D |
| 4970 | 332497.1670 | 2784582.6300 | 1006.590 | CTL 60D |
| 4972 | 332462.9200 | 2784485.9200 | 1007.813 | CTL 60D |
| 4973 | 332572.6360 | 2784457.0690 | 1008.348 | CTL 60D |
| 30002 | 330649.1210 | 2784598.3840 | 1018.790 | CTL |
| 30004 | 332276.2790 | 2784666.6070 | 1007.930 | CTL |
| 30005 | 331654.1760 | 2784739.9030 | 1012.410 | CTL |
| 30006 | 332459.7570 | 2784760.9270 | 1006.840 | CTL |
| 30247 | 332402.3700 | 2784763.3720 | 1009.443 | TBM |
| 30419 | 332135.7290 | 2784753.2110 | 1010.350 | CTL |
| 31387 | 331283.1910 | 2784718.7510 | 1015.790 | CTL |
| 31572 | 331059.4590 | 2784712.8480 | 1017.130 | CTL |
| 31588 | 331091.7830 | 2784713.7450 | 1017.870 | TBM |
| 31906 | 330846.8620 | 2784694.8270 | 1017.730 | CTL |

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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

SURVEY CONTROL

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

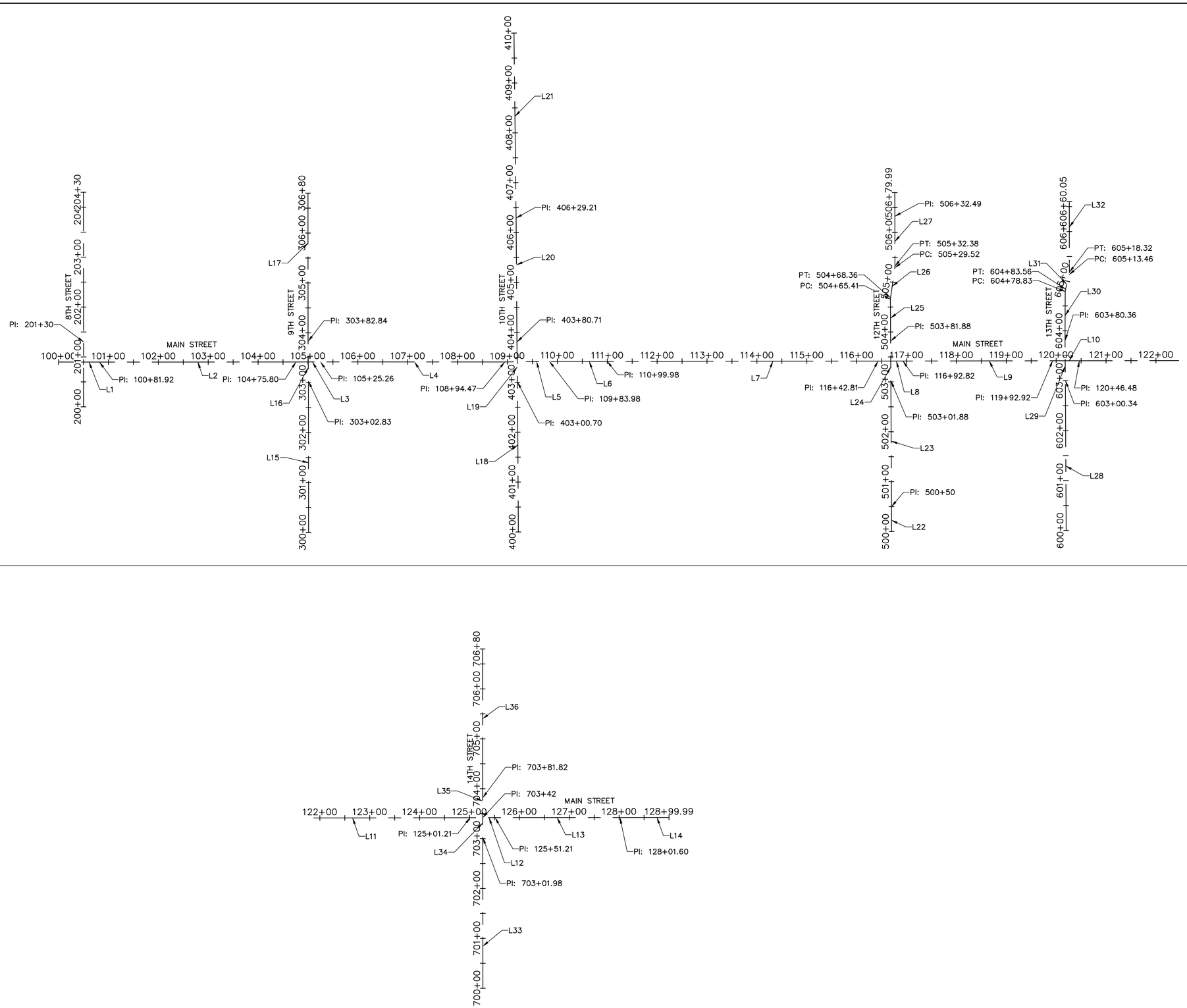
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: SVY-CTL01_02300893
date: 4.19.2026

SHEET
11 of 162

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DATE: Apr 19, 2026 12:53pm XREFS: T_PTBLK_02300893 V_XTOP0_02300893_Combined
USER: mmayfarth




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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

ALIGNMENT DATA

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_ALI01_02300893
date: 4.19.2026

SHEET
12 of 162

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DATE: Apr 19, 2026 12:55pm XREFS: T_PTBLK_02300893 T_PALGN_02300893 USER: mmayfarth

| MAIN STREET | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | STATION | NORTHING | EASTING | LENGTH | LINE/CHORD BEARING | DELTA | TANGENT | RADIUS |
| L1 | 100+00.00<br>100+81.92 | 333564.3882<br>333482.5230 | 2784756.5291<br>2784753.4397 | 81.92' | S2°09'40"W | | | |
| L2 | 100+81.92<br>104+75.80 | 333482.5230<br>333088.8984 | 2784753.4397<br>2784739.2446 | 393.88' | S2°03'55"W | | | |
| L3 | 104+75.80<br>105+25.26 | 333088.8984<br>333039.4737 | 2784739.2446<br>2784737.5607 | 49.45' | S1°57'05"W | | | |
| L4 | 105+25.26<br>108+94.47 | 333039.4737<br>332670.5096 | 2784737.5607<br>2784723.9455 | 369.22' | S2°06'48"W | | | |
| L5 | 108+94.47<br>109+83.98 | 332670.5096<br>332581.0198 | 2784723.9455<br>2784722.0631 | 89.51' | S1°12'18"W | | | |
| L6 | 109+83.98<br>110+99.98 | 332581.0198<br>332465.0977 | 2784722.0631<br>2784717.7681 | 116.00' | S2°07'19"W | | | |
| L7 | 110+99.98<br>116+42.81 | 332465.0977<br>331922.6118 | 2784717.7681<br>2784698.4335 | 542.83' | S2°02'28"W | | | |
| L8 | 116+42.81<br>116+92.82 | 331922.6118<br>331872.6424 | 2784698.4335<br>2784696.6378 | 50.00' | S2°03'29"W | | | |
| L9 | 116+92.82<br>119+92.92 | 331872.6424<br>331572.7216 | 2784696.6378<br>2784686.2495 | 300.10' | S1°59'02"W | | | |
| L10 | 119+92.92<br>120+46.48 | 331572.7216<br>331519.1884 | 2784686.2495<br>2784684.3153 | 53.57' | S2°04'09"W | | | |
| L11 | 120+46.48<br>125+01.21 | 331519.1884<br>331064.7396 | 2784684.3153<br>2784668.4780 | 454.72' | S1°59'45"W | | | |
| L12 | 125+01.21<br>125+51.21 | 331064.7396<br>331014.7606 | 2784668.4780<br>2784667.0175 | 50.00' | S1°40'26"W | | | |
| L13 | 125+51.21<br>128+01.60 | 331014.7606<br>330764.5365 | 2784667.0175<br>2784657.9338 | 250.39' | S2°04'45"W | | | |
| L14 | 128+01.60<br>128+99.99 | 330764.5365<br>330666.2140 | 2784657.9338<br>2784654.3681 | 98.39' | S2°04'37"W | | | |

| 9TH STREET | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | STATION | NORTHING | EASTING | LENGTH | LINE/CHORD BEARING | DELTA | TANGENT | RADIUS |
| L15 | 300+00.00<br>303+02.83 | 333076.0497<br>333065.2585 | 2784396.9385<br>2784699.5799 | 302.83' | S87°57'28"E | | | |
| L16 | 303+02.83<br>303+82.84 | 333065.2585<br>333063.0387 | 2784699.5799<br>2784779.5531 | 80.00' | S88°24'36"E | | | |
| L17 | 303+82.84<br>306+80.00 | 333063.0387<br>333052.3831 | 2784779.5531<br>2785076.5244 | 297.16' | S87°56'42"E | | | |

| 10TH STREET | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | STATION | NORTHING | EASTING | LENGTH | LINE/CHORD BEARING | DELTA | TANGENT | RADIUS |
| L18 | 400+00.00<br>403+00.70 | 332655.6921<br>332646.4479 | 2784382.4412<br>2784683.0014 | 300.70' | S88°14'18"E | | | |
| L19 | 403+00.70<br>403+80.71 | 332646.4479<br>332644.6018 | 2784683.0014<br>2784762.9890 | 80.01' | S88°40'40"E | | | |
| L20 | 403+80.71<br>406+29.21 | 332644.6018<br>332637.2007 | 2784762.9890<br>2785011.3747 | 248.50' | S88°17'36"E | | | |
| L21 | 406+29.21<br>410+00.00 | 332637.2007<br>332627.9338 | 2785011.3747<br>2785382.0520 | 370.79' | S88°34'04"E | | | |

| 12TH STREET | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | STATION | NORTHING | EASTING | LENGTH | LINE/CHORD BEARING | DELTA | TANGENT | RADIUS |
| L22 | 500+00.00<br>500+50.00 | 331907.9017<br>331906.2314 | 2784355.9924<br>2784405.9645 | 50.00' | S88°05'08"E | | | |
| L23 | 500+50.00<br>503+01.88 | 331906.2314<br>331898.2969 | 2784405.9645<br>2784657.7184 | 251.88' | S88°11'41"E | | | |
| L24 | 503+01.88<br>503+81.88 | 331898.2969<br>331895.8694 | 2784657.7184<br>2784737.6834 | 80.00' | S88°15'40"E | | | |
| L25 | 503+81.88<br>504+65.41 | 331895.8694<br>331893.2380 | 2784737.6834<br>2784821.1752 | 83.53' | S88°11'41"E | | | |
| L26 | 504+68.36<br>505+29.52 | 331892.9296<br>331882.0604 | 2784824.0996<br>2784884.2841 | 61.16' | S79°45'46"E | | | |
| L27 | 505+32.38<br>506+32.49 | 331881.7546<br>331878.2028 | 2784887.1290<br>2784987.1757 | 100.11' | S87°58'00"E | | | |

| 13TH STREET | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | STATION | NORTHING | EASTING | LENGTH | LINE/CHORD BEARING | DELTA | TANGENT | RADIUS |
| L28 | 600+00.00<br>603+00.34 | 331557.9875<br>331548.6746 | 2784345.4312<br>2784645.6261 | 300.34' | S88°13'23"E | | | |
| L29 | 603+00.34<br>603+80.36 | 331548.6746<br>331546.4712 | 2784645.6261<br>2784725.6122 | 80.02' | S88°25'19"E | | | |
| L30 | 603+80.36<br>604+78.83 | 331546.4712<br>331542.4016 | 2784725.6122<br>2784824.0015 | 98.47' | S87°37'53"E | | | |
| L31 | 604+83.56<br>605+13.46 | 331541.6510<br>331533.4468 | 2784828.6630<br>2784857.4143 | 29.90' | S74°04'25"E | | | |
| L32 | 605+18.32<br>606+60.05 | 331532.6915<br>331527.6984 | 2784862.1977<br>2785003.8419 | 141.73' | S87°58'52"E | | | |

| 14TH STREET | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | STATION | NORTHING | EASTING | LENGTH | LINE/CHORD BEARING | DELTA | TANGENT | RADIUS |
| L33 | 700+00.00<br>703+01.98 | 331051.6401<br>331040.8668 | 2784325.9554<br>2784627.7447 | 301.98' | S87°57'20"E | | | |
| L34 | 703+01.98<br>703+42.00 | 331040.8668<br>331039.4515 | 2784627.7447<br>2784667.7390 | 40.02' | S87°58'24"E | | | |
| L35 | 703+42.00<br>703+81.82 | 331039.4515<br>331038.0959 | 2784667.7390<br>2784707.5323 | 39.82' | S88°02'56"E | | | |
| L36 | 703+81.82<br>706+80.00 | 331038.0959<br>331027.3318 | 2784707.5323<br>2785005.5181 | 298.18' | S87°55'52"E | | | |


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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

ALIGNMENT DATA

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

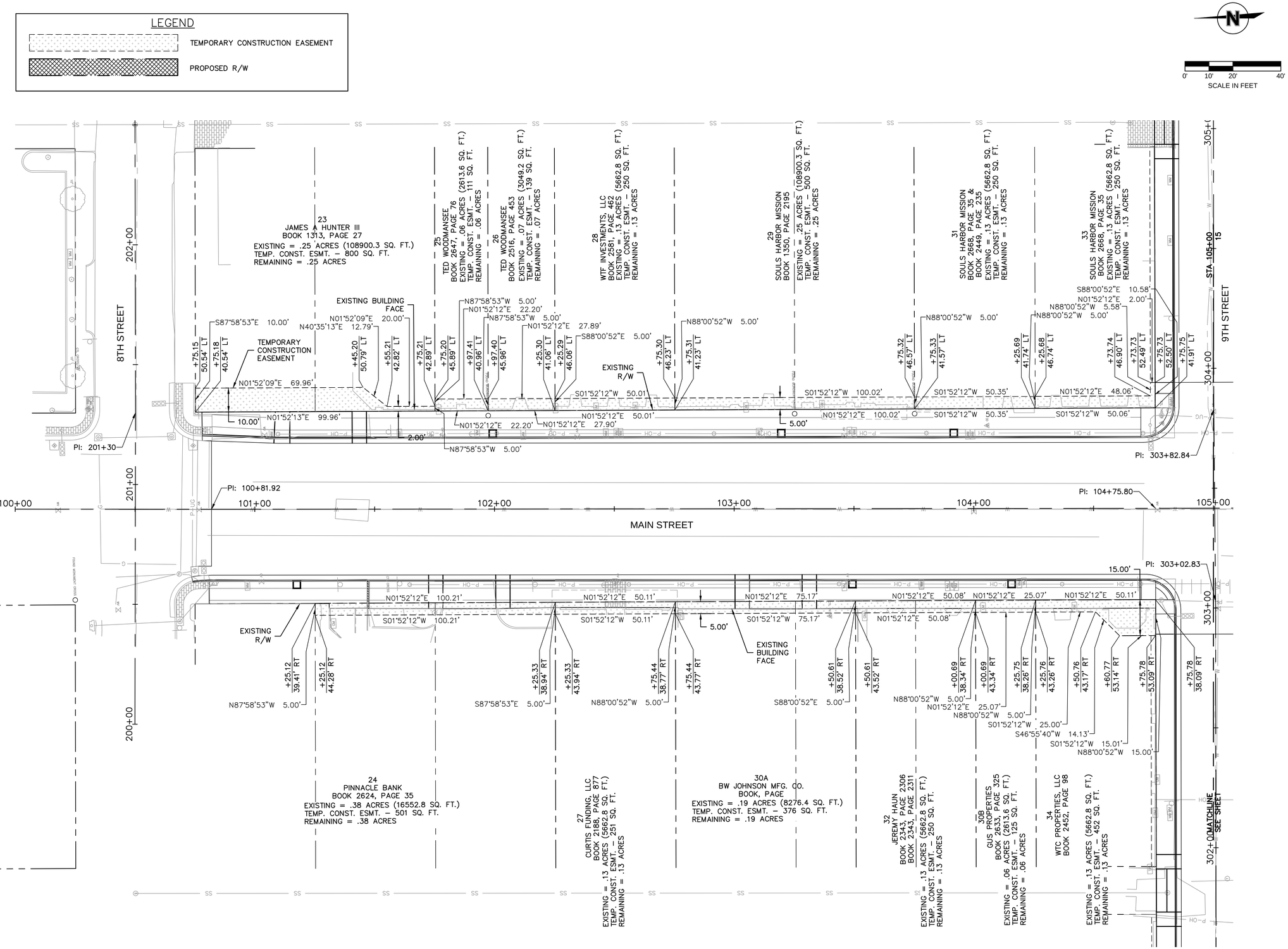
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_ALI01_02300893
date: 4.19.2026

SHEET
13 of 162


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MICHAEL J. MAYFARTH
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4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|
| | | REVISIONS | |

RIGHT OF WAY PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_ROW01_02300893
date: 4.19.2026

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LEGEND

TEMPORARY CONSTRUCTION EASEMENT

PROPOSED R/W

N

0' 10' 20' 40'
SCALE IN FEET

9TH STREET

10TH STREET

MAIN STREET

STA 105+00 14

STA 110+00 16

40
JEREMY & LORI HAUN
BOOK 2490, PAGE 17
EXISTING = .25 ACRES (10890 SQ. FT.)
TEMP. CONST. ESMT. – 410 SQ. FT.
REMAINING = .25 ACRES

42
PLATINUM CAPITAL INVESTMENTS, LLC
BOOK 2486, PAGE 151
EXISTING = .04 ACRES (1742.4 SQ. FT.)
TEMP. CONST. ESMT. – 85 SQ. FT.
REMAINING = .04 ACRES

43
PLATINUM CAPITAL INVESTMENTS, LLC
BOOK 2486, PAGE 151
EXISTING = .04 ACRES (1742.4 SQ. FT.)
TEMP. CONST. ESMT. – 85 SQ. FT.
REMAINING = .04 ACRES

45
PLATINUM CAPITAL INVESTMENTS, LLC
BOOK 2486, PAGE 152, 153 & 154
EXISTING = .04 ACRES (1742.4 SQ. FT.)
TEMP. CONST. ESMT. – 85 SQ. FT.
REMAINING = .04 ACRES

47
SOULS HARBOR MISSION, INC.
BOOK 1272, PAGE 1810
EXISTING = .13 ACRES (5662.8 SQ. FT.)
TEMP. CONST. ESMT. – 250 SQ. FT.
REMAINING = .13 ACRES

49
A&D AUTOSALES, LLC
BOOK 2316, PAGE 1898
EXISTING = .13 ACRES (5662.8 SQ. FT.)
TEMP. CONST. ESMT. – 100 SQ. FT.
REMAINING = .13 ACRES

50
A&D AUTOSALES, LLC
BOOK 2316, PAGE 1898
EXISTING = .13 ACRES (5662.8 SQ. FT.)
TEMP. CONST. ESMT. – 360 SQ. FT.
REMAINING = .13 ACRES

39
MIDWESTERN MUSIC CO., INC.
BOOK 1640, PAGE 844
EXISTING = .13 ACRES (5662.8 SQ. FT.)
TEMP. CONST. ESMT. – 452 SQ. FT.
REMAINING = .13 ACRES

MOSS DEGRAFF
BOOK 2514, PAGE 120
EXISTING = .26 ACRES (11325.6 SQ. FT.)
TEMP. CONST. ESMT. – 153 SQ. FT.
REMAINING = .26 ACRES

41
MOSS DEGRAFF
BOOK 2514, PAGE 120
EXISTING = .06 ACRES (2613.6 SQ. FT.)
TEMP. CONST. ESMT. – 50 SQ. FT.
REMAINING = .06 ACRES

44
MOSS DEGRAFF, LLC
BOOK 2514, PAGE 120
EXISTING = .06 ACRES (2613.6 SQ. FT.)
TEMP. CONST. ESMT. – 100 SQ. FT.
REMAINING = .06 ACRES

46
MOSS DEGRAFF, LLC
BOOK 2688, PAGE 237

48
STEVEN W MELTON
BOOK 2014, PAGE 683
EXISTING = .42 ACRES (18295.2 SQ. FT.)
ROW TAKING = 112 SQ. FT.
TEMP. CONST. ESMT. – 1087 SQ. FT.
REMAINING = .42 ACRES

EXISTING PROPERTY LINE

EXISTING R/W

EXISTING BUILDING FACE

APPARENT EXISTING R/W

MATCHLINE SEE SHEET

PI: 105+25.26

PI: 108+94.47

PI: 109+83.98

PI: 403+80.71

PI: 403+00.70

STA: 108+27.14
30.01' LT

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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

RIGHT OF WAY PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

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project no.: 023-00893
drawing no.: T_ROW01_02300893
date: 4.19.2026

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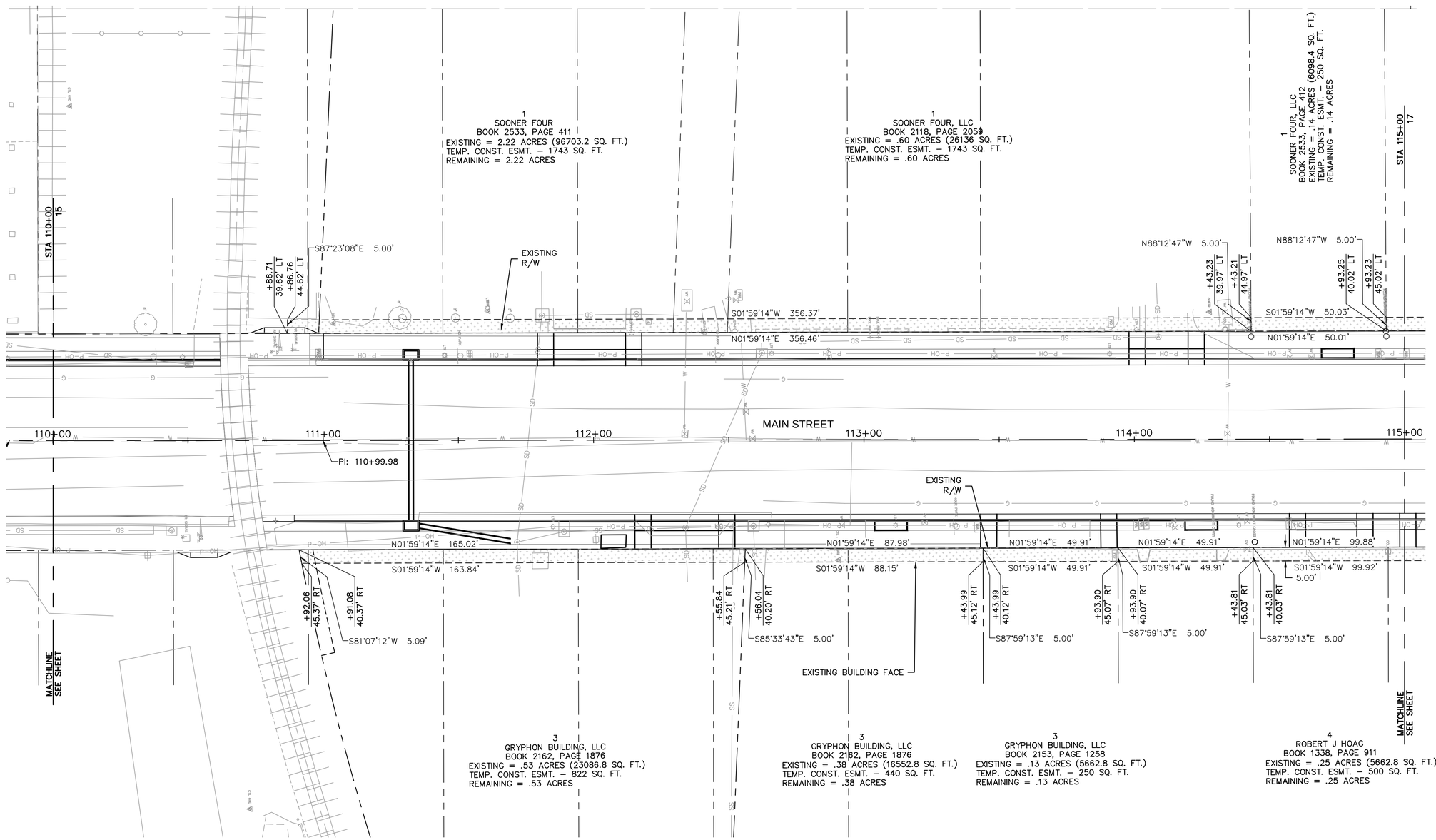
LEGEND

TEMPORARY CONSTRUCTION EASEMENT

PROPOSED R/W

N

0' 10' 20' 40'
SCALE IN FEET




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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

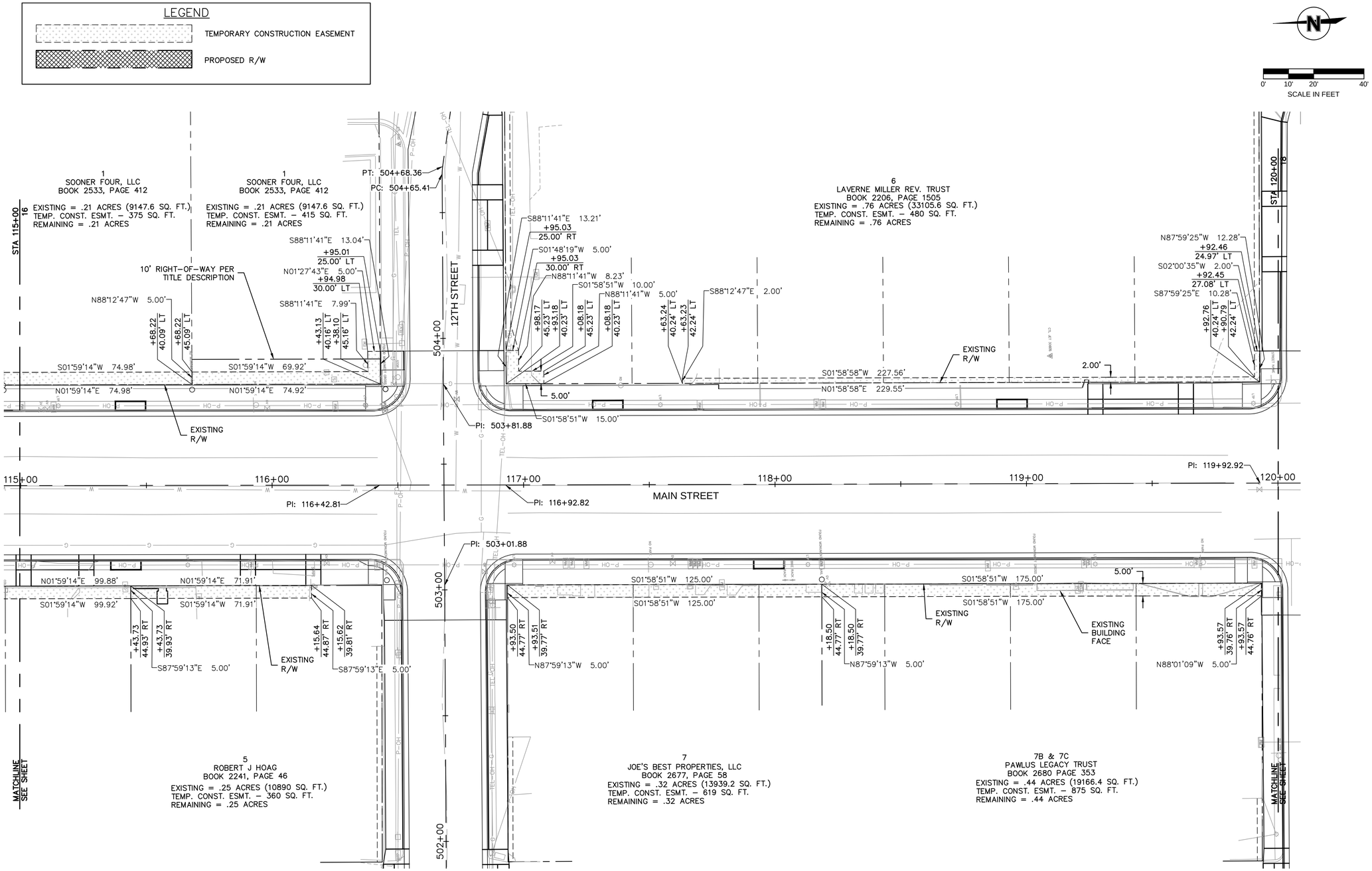
RIGHT OF WAY PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_ROW01_02300893
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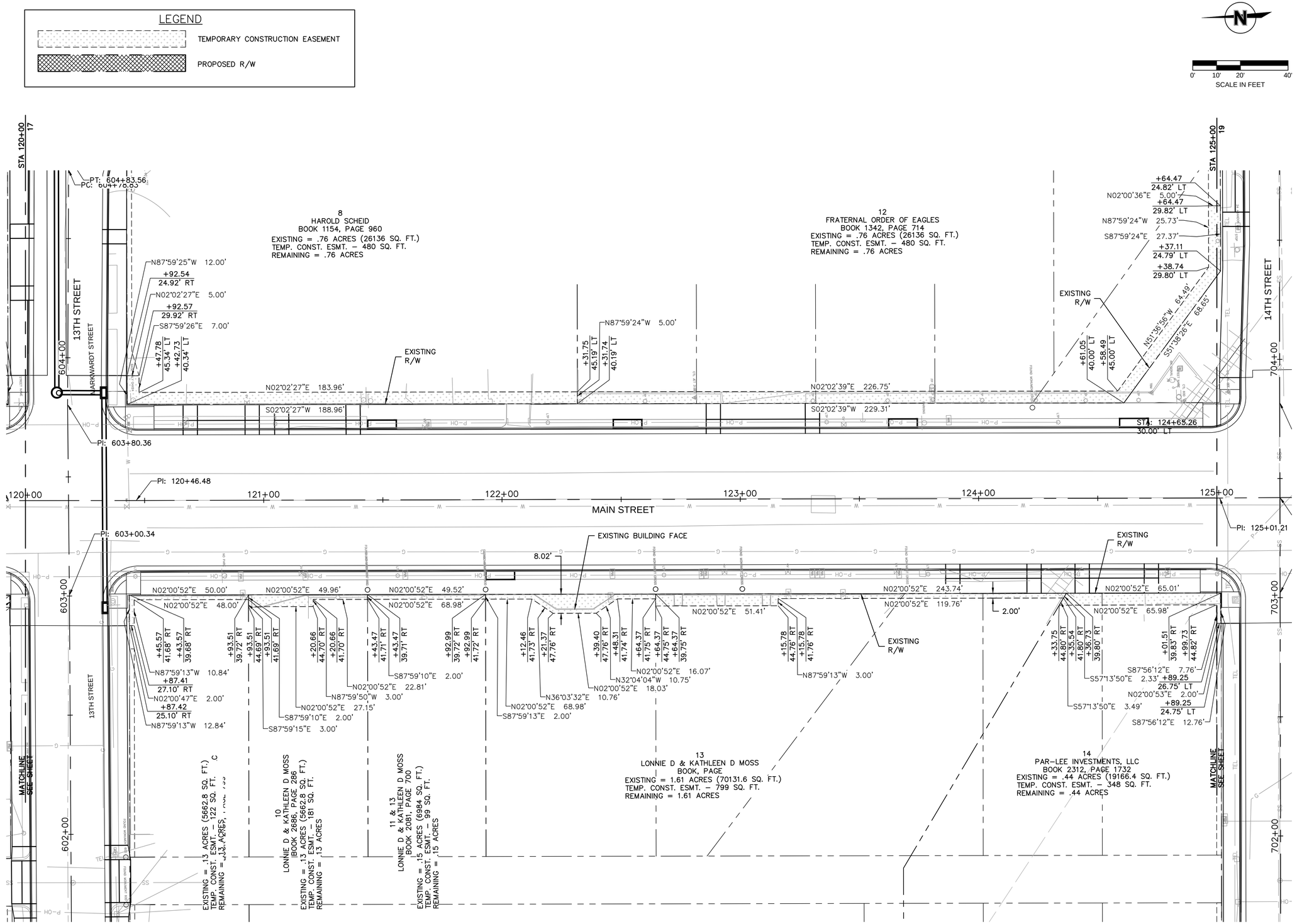
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_ROW01_02300893
date: 4.19.2026

SHEET
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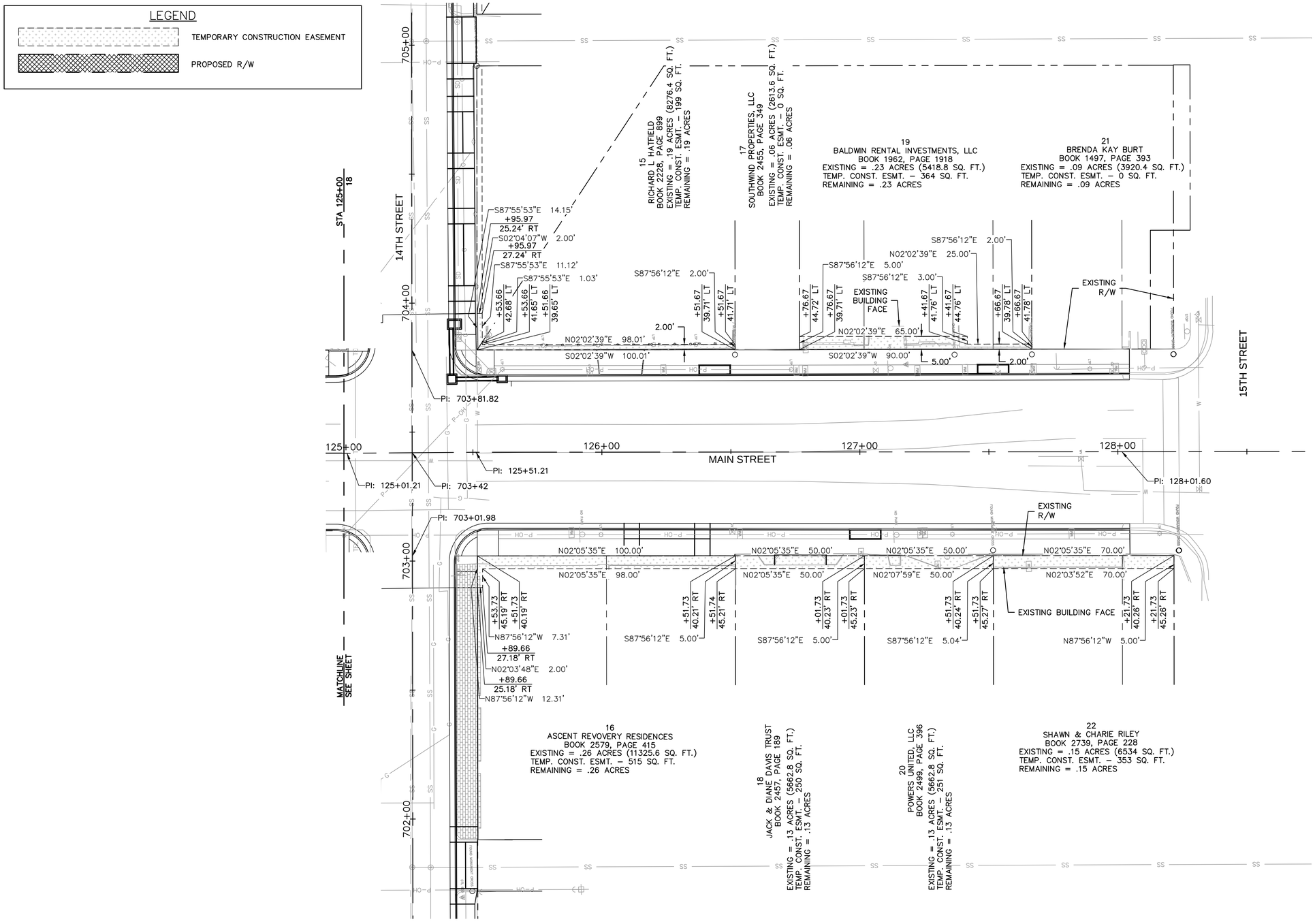
RIGHT OF WAY PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

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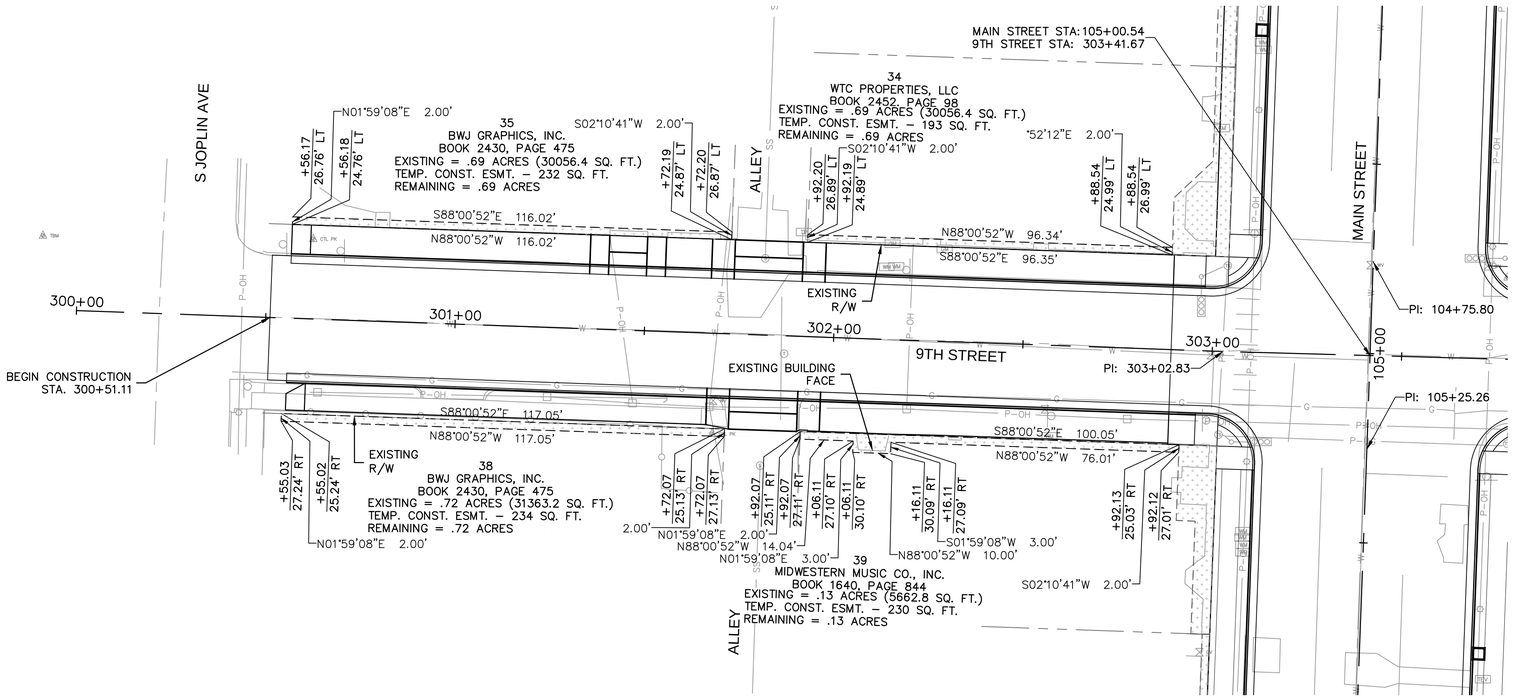
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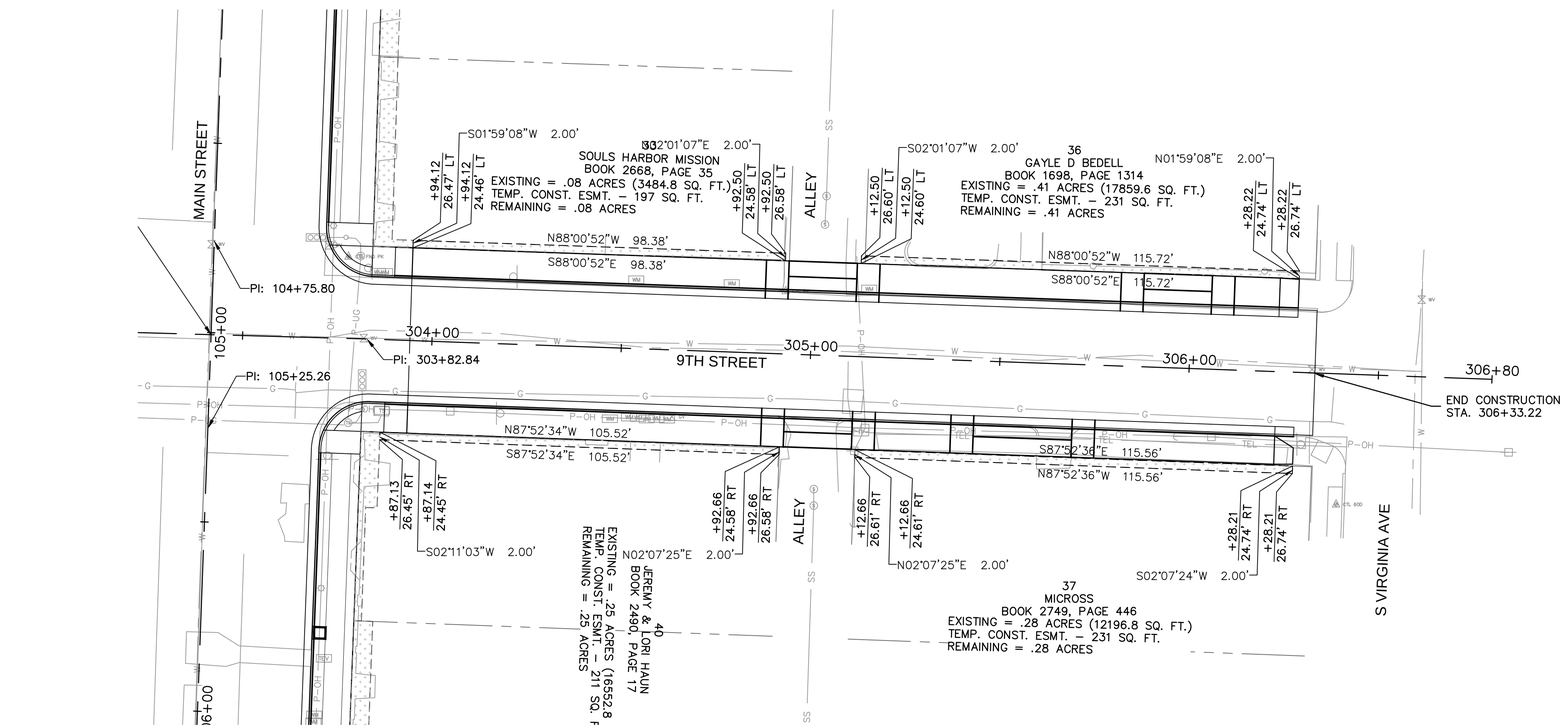
JOPLIN, MO

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approved by: JWP
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SHEET
19 of 162


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LEGEND

TEMPORARY CONSTRUCTION EASEMENT

PROPOSED R/W

** MAIN STREET - 8TH TO 15TH STREET
SEE SHEETS 14 - 19 FOR BASE BID RIGHT OF WAY PLANS


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REVISIONS

RIGHT OF WAY PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

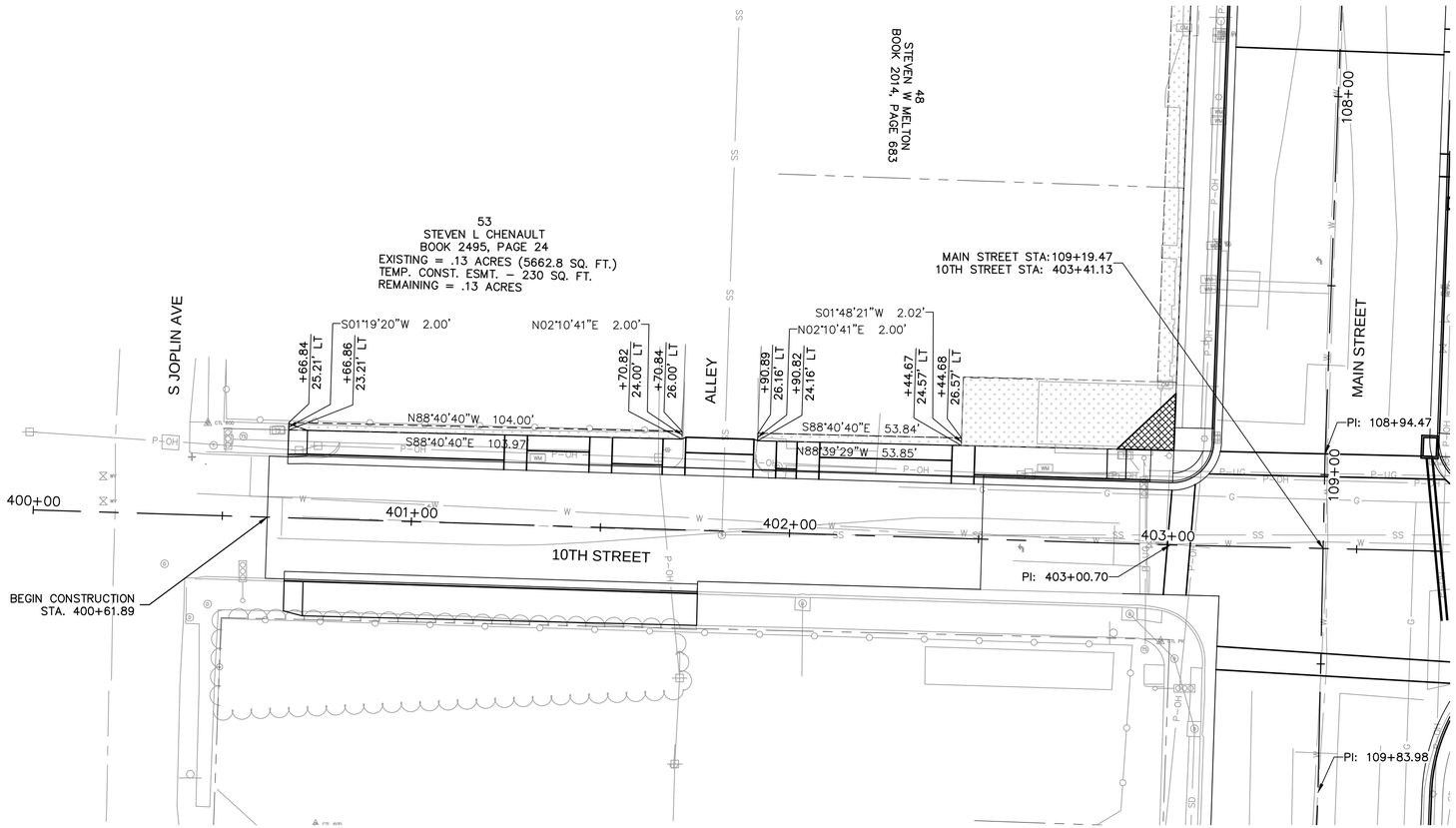
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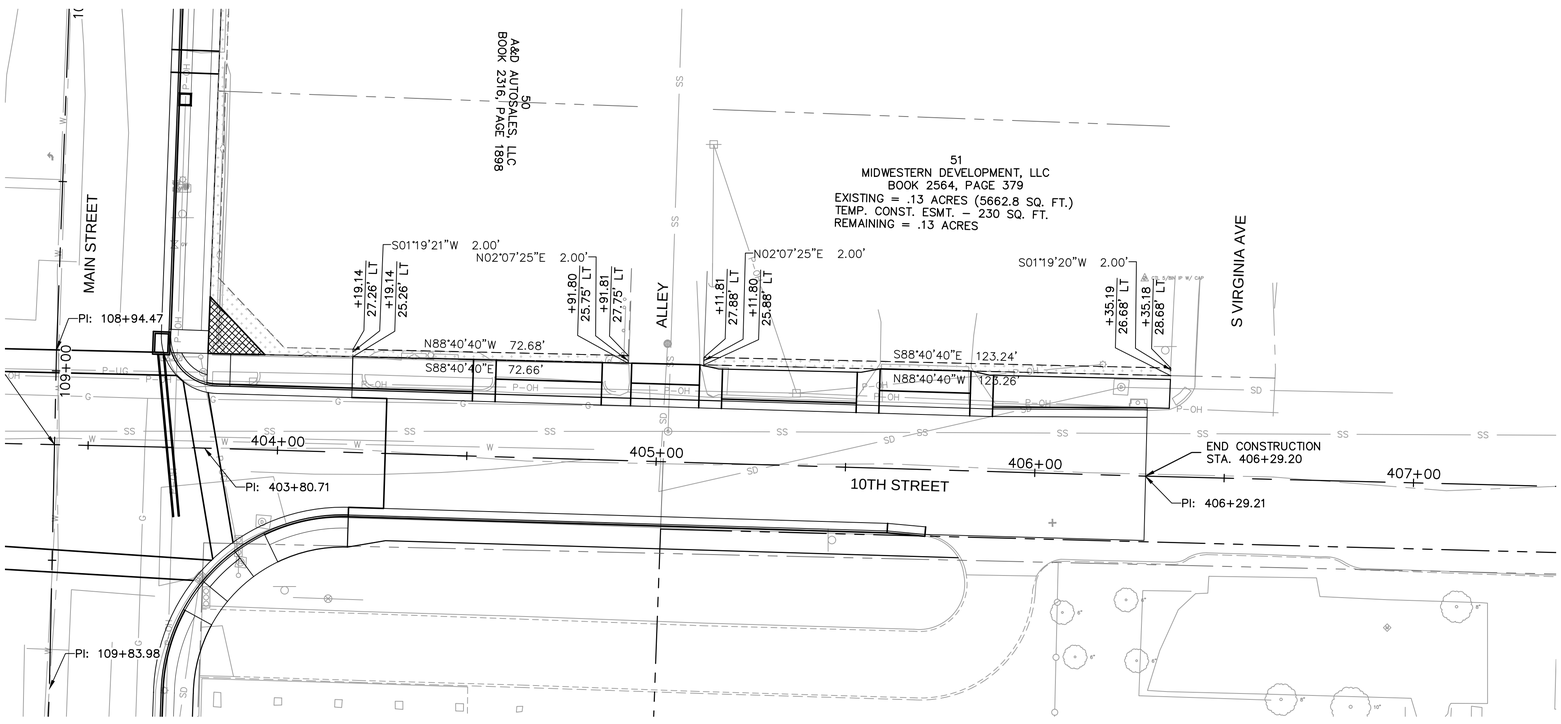
JOPLIN, MO

| | |
|---|---|
| drawn by: | CTK/MJM |
| checked by: | MJM |
| approved by: | JWP |
| QA/QC by: | JWP |
| project no.: | 023-00893 |
| drawing no.: | ABC.DWG |
| date: | 4.19.2026 |

SHEET
20 of 162

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REVISIONS

RIGHT OF WAY PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

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54
BC RENTAL HOMES, LLC
BOOK 2627, PAGE 243
EXISTING = .14 ACRES (6098.4 SQ. FT.)
TEMP. CONST. ESMT. – 234 SQ. FT.
REMAINING = .14 ACRES

5
ROBERT J HOAG
BOOK 2241, PAGE 46
EXISTING = .25 ACRES (10890 SQ. FT.)
TEMP. CONST. ESMT. – 172 SQ. FT.
REMAINING = .25 ACRES

7
JOE'S, BEST PROPERTIES, LLC
BOOK 2677, PAGE 58
EXISTING = .08 ACRES (3484.8 SQ. FT.)
TEMP. CONST. ESMT. – 99 SQ. FT.
REMAINING = .08 ACRES

56
PAWLUS LEGACY TRUST
BOOK 2680 PAGE 353
EXISTING = .83 ACRES (36154.8 SQ. FT.)
TEMP. CONST. ESMT. – 233 SQ. FT.
REMAINING = .83 ACRES

S JOPLIN AVE
ALLEY
MAIN STREET
12TH STREET
EXISTING R/W
BEGIN CONSTRUCTION STA. 500+55.00
PI: 500+50
PI: 503+01.88
PI: 116+42.81
PI: 116+92.82
MAIN STREET STA: 116+68.35
12TH STREET STA: 503+41.70

N01°48'19"E 2.00'
S01°48'19"W 2.00'
S02°00'47"W 2.00'
S88°11'41"E 116.99'
N88°11'41"W 116.99'
S87°59'13"E 85.79'
N87°59'13"W 85.78
N87°59'13"W 116.53'
S87°59'13"E 116.54'
S87°59'13"E 49.60'
N87°59'13"W 49.59'

+55.03 27.00' LT
+55.03 25.00' LT
+72.02 24.97' LT
+72.02 27.00' LT
+91.96 27.42' LT
+91.96 25.42' LT
+77.74 25.10' LT
+77.75 27.10' LT
+55.26 26.09' RT
+55.27 24.00' RT
+71.80 24.51' RT
+71.80 26.51' RT
+91.80 26.58' RT
+91.80 24.58' RT
+41.40 24.76' RT
+41.40 26.76' RT

55
SOONER FOUR, LLC
BOOK 2533, PAGE 411

1
SOONER FOUR, LLC
BOOK 2533, PAGE 412

S VIRGINIA AVE
EXISTING R/W
PI: 503+81.88
PT: 504+68.36
PC: 504+65.41
PC: 505+29.52
PT: 505+32.38
PI: 506+32.49
END CONSTRUCTION STA. 306+33.22

N88°11'41"W 96.78'
S88°11'41"E 86.77'
S88°11'41"E 112.21'
N88°11'41"W 112.22'

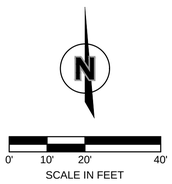
+95.03 30.00' RT
+95.03 25.00' RT
+05.03 27.00' RT
+95.20 21.08' RT
+95.48 23.06' RT
+16.69 29.82' RT
+16.42 27.84' RT
+24.79 25.03' RT
+24.80 27.03' RT

N75°06'21"E 10.44'
S01°48'19"W 5.00'
N01°58'36"E 2.00'
N02°16'46"E 2.00'
S01°48'19"W 2.00'

6
LAVERNE MILLER REV. TRUST
BOOK 2206, PAGE 1505
EXISTING = .76 ACRES (33105.6 SQ. FT.)
TEMP. CONST. ESMT. – 209 SQ. FT.
REMAINING = .76 ACRES

57
LAVERNE MILLER REV. TRUST
BOOK 2658, PAGE 116
EXISTING = .83 ACRES (36154.8 SQ. FT.)
TEMP. CONST. ESMT. – 224 SQ. FT.
REMAINING = .83 ACRES

500+00 501+00 502+00 503+00 504+00 505+00 506+00 506+79.99
116+00 117+00




LEGEND
TEMPORARY CONSTRUCTION EASEMENT
PROPOSED R/W

** MAIN STREET - 8TH TO 15TH STREET
SEE SHEETS 14 - 19 FOR BASE BID RIGHT OF WAY PLANS

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STATE OF MISSOURI
MICHAEL J MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

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|---|---|---|---|
| | | REVISIONS | |

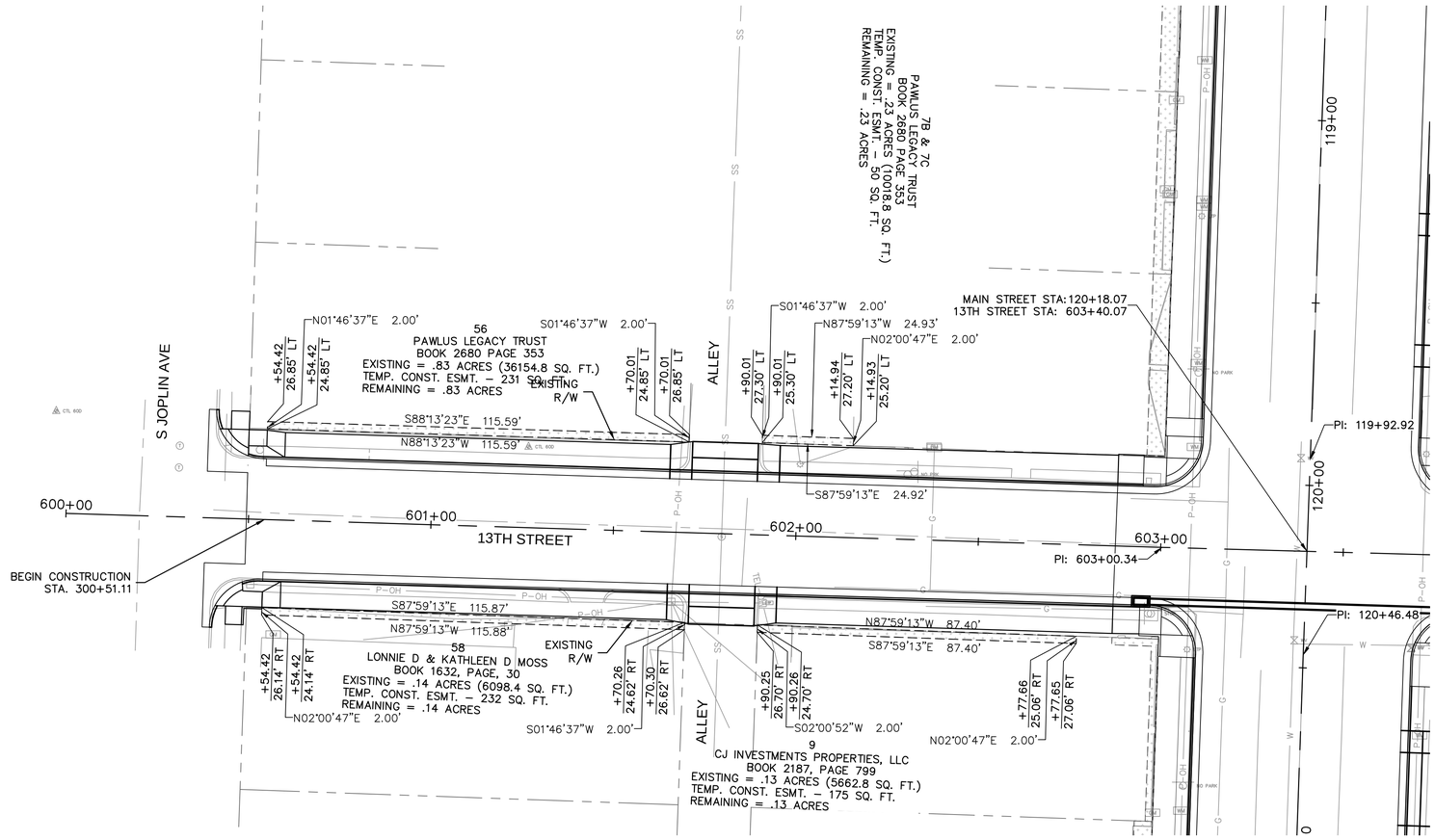
RIGHT OF WAY PLANS

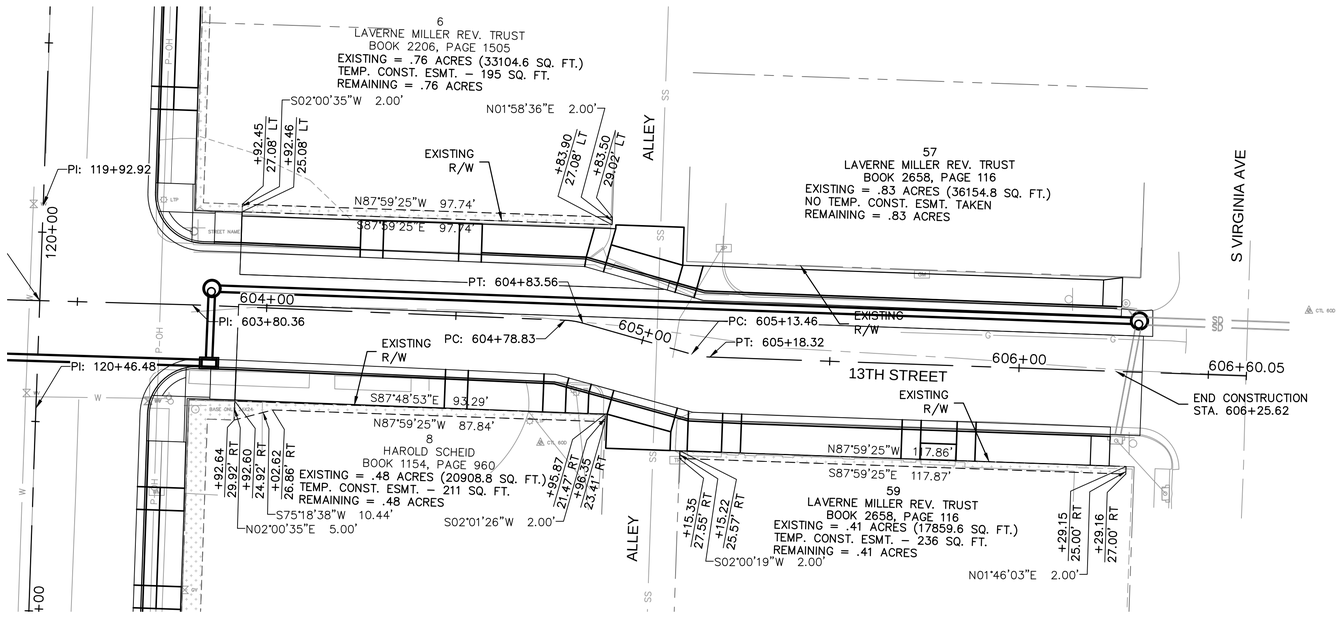
MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

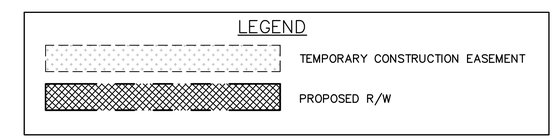
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RIGHT OF WAY PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

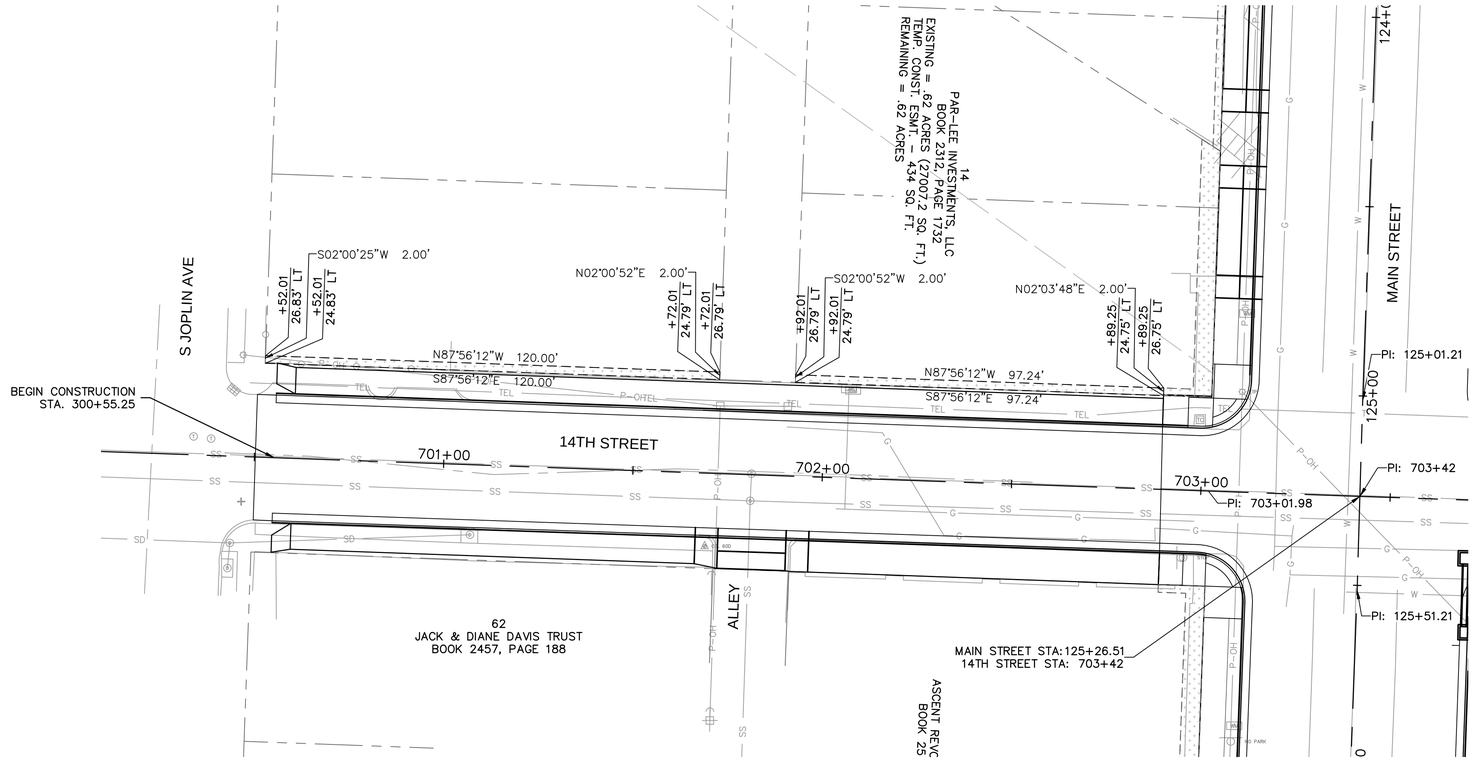
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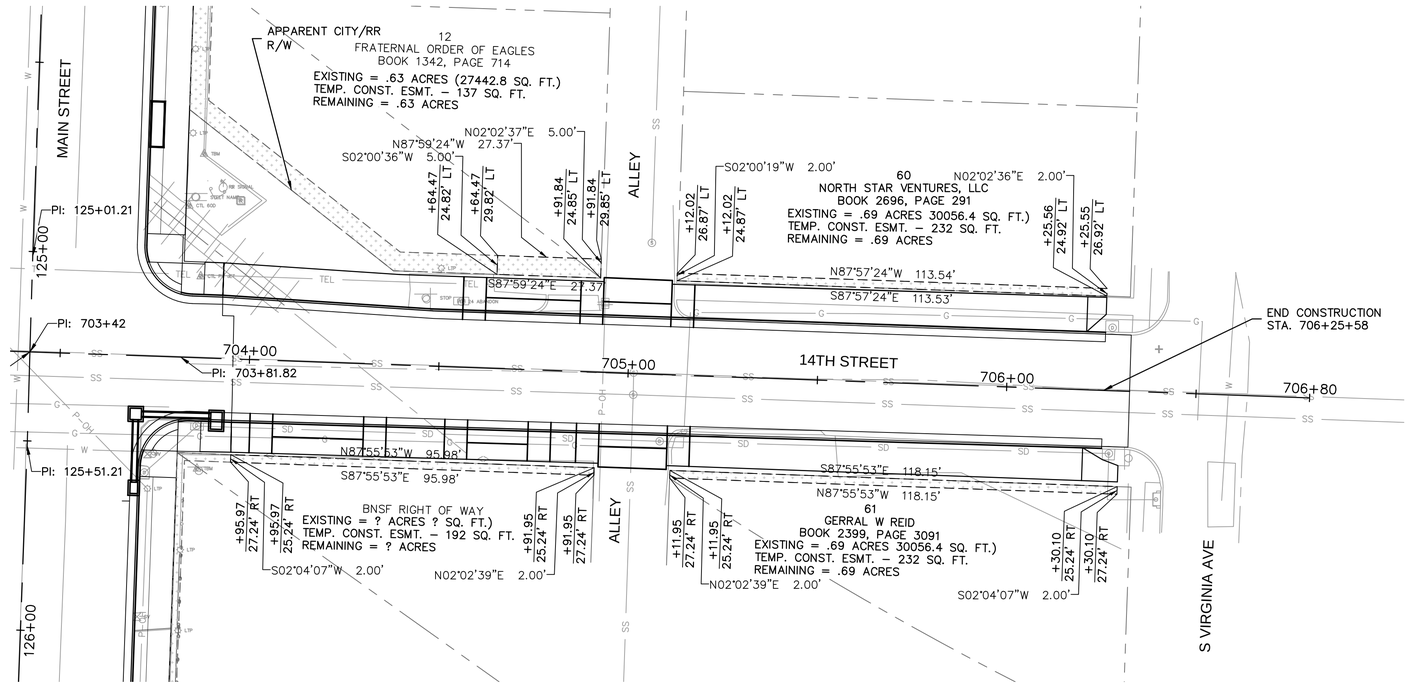
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RIGHT OF WAY PLANS

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8TH ST TO 15TH ST

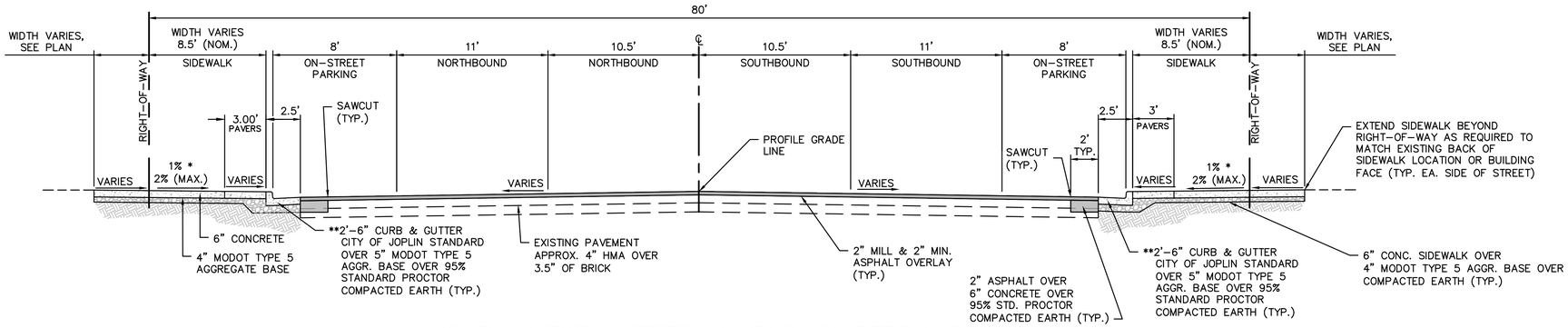
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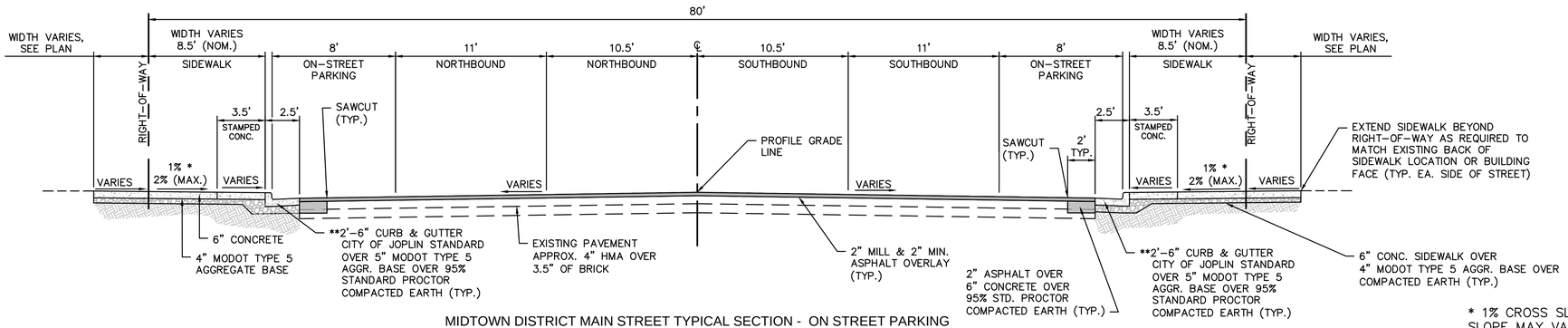
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DOWNTOWN DISTRICT MAIN STREET TYPICAL SECTION - ON STREET PARKING

STA: 100+81.92 TO 104+70.69
STA: 105+30.40 TO 107+87.92
N.T.S.

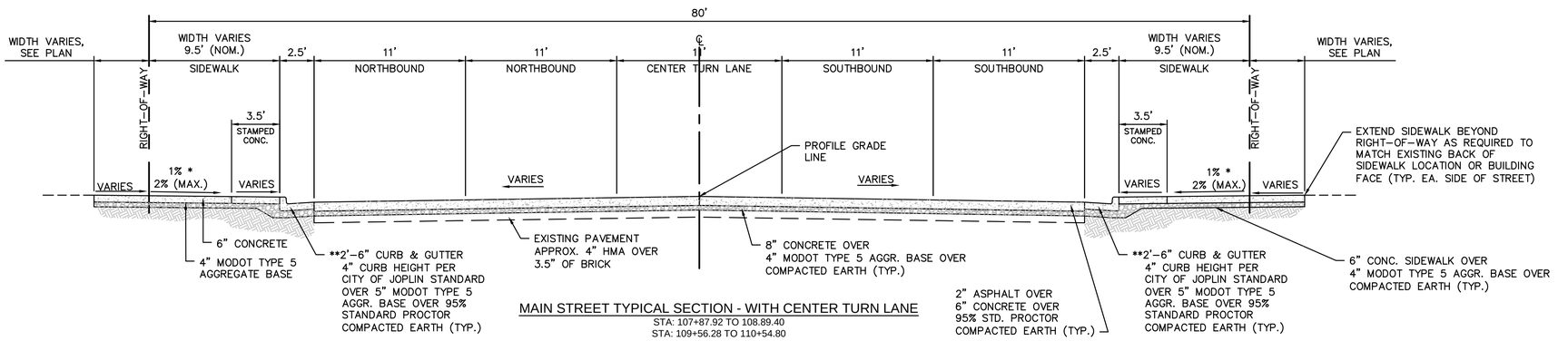



MIDTOWN DISTRICT MAIN STREET TYPICAL SECTION - ON STREET PARKING

STA: 110+86.51 TO 116+38.79
STA: 116+97.70 TO 119+88.81
STA: 120+47.17 TO 124+97.10
STA: 125+55.72 TO 126+88.05
N.T.S.

* 1% CROSS SLOPE IS PREFERED. SLOPE MAY VARY FROM 1% MIN. TO 2% MAX.

CONTRACTOR SHALL ENSURE THAT THE SIDEWALK CROSS SLOPES DO NOT EXCEED 2% ACROSS THE PEDESTRIAN ACCESS ROUTE. SIDEWALK IN THE PEDESTRIAN ACCESS ROUTE THAT IS NOT COMPLIANT WITH ADA STANDARDS SHALL BE REMOVED AND RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE.




MAIN STREET TYPICAL SECTION - WITH CENTER TURN LANE

STA: 107+87.92 TO 108.89.40
STA: 109+56.28 TO 110+54.80
N.T.S

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4/21/2026
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REVISIONS

TYPICAL SECTIONS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

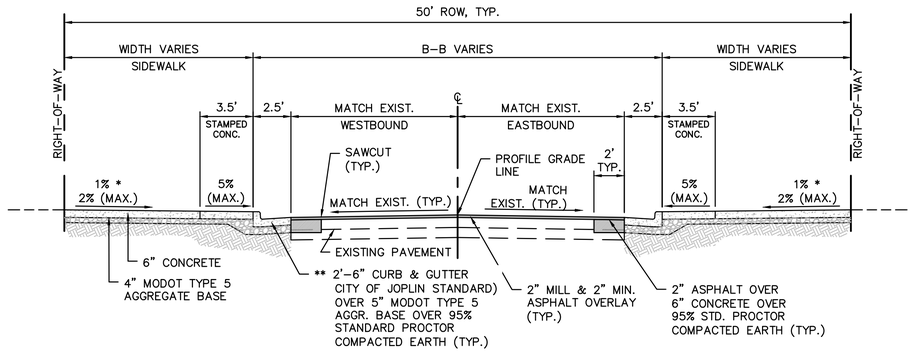
JOPLIN, MO

2025

drawn by: CTK/MJM
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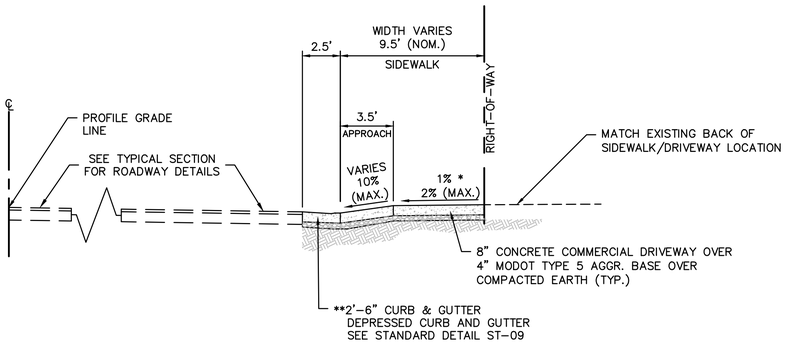
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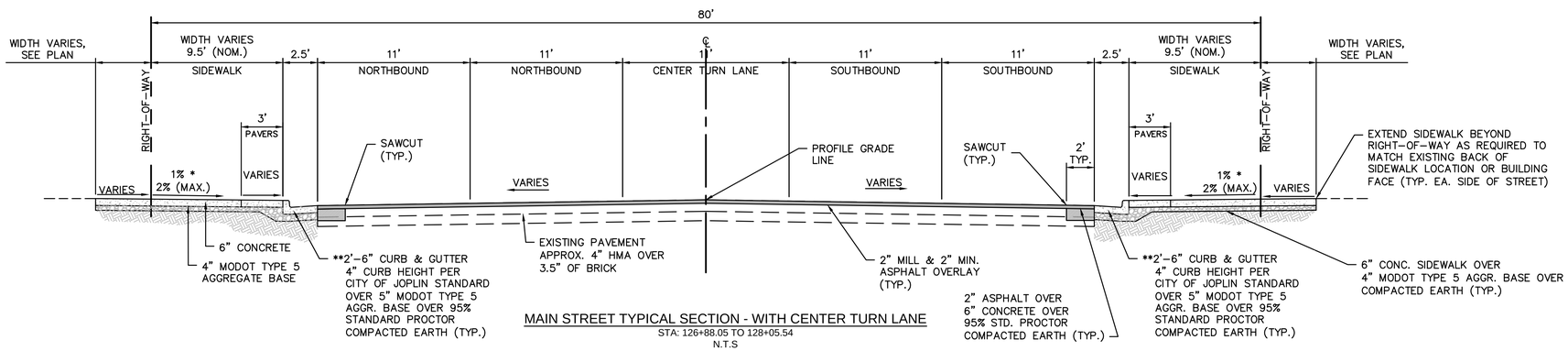



SIDE STREET - TYPICAL SECTION
N.T.S.

NOTE:
THIS TYPICAL SECTION APPLIES TO
9TH, 10TH, 12TH, 13TH, AND 14TH STREETS




DRIVEWAY SECTION - COMMERCIAL DRIVEWAY
N.T.S




MAIN STREET TYPICAL SECTION - WITH CENTER TURN LANE
STA: 126+88.05 TO 128+05.54
N.T.S

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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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| | | | |

REVISIONS

TYPICAL SECTIONS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

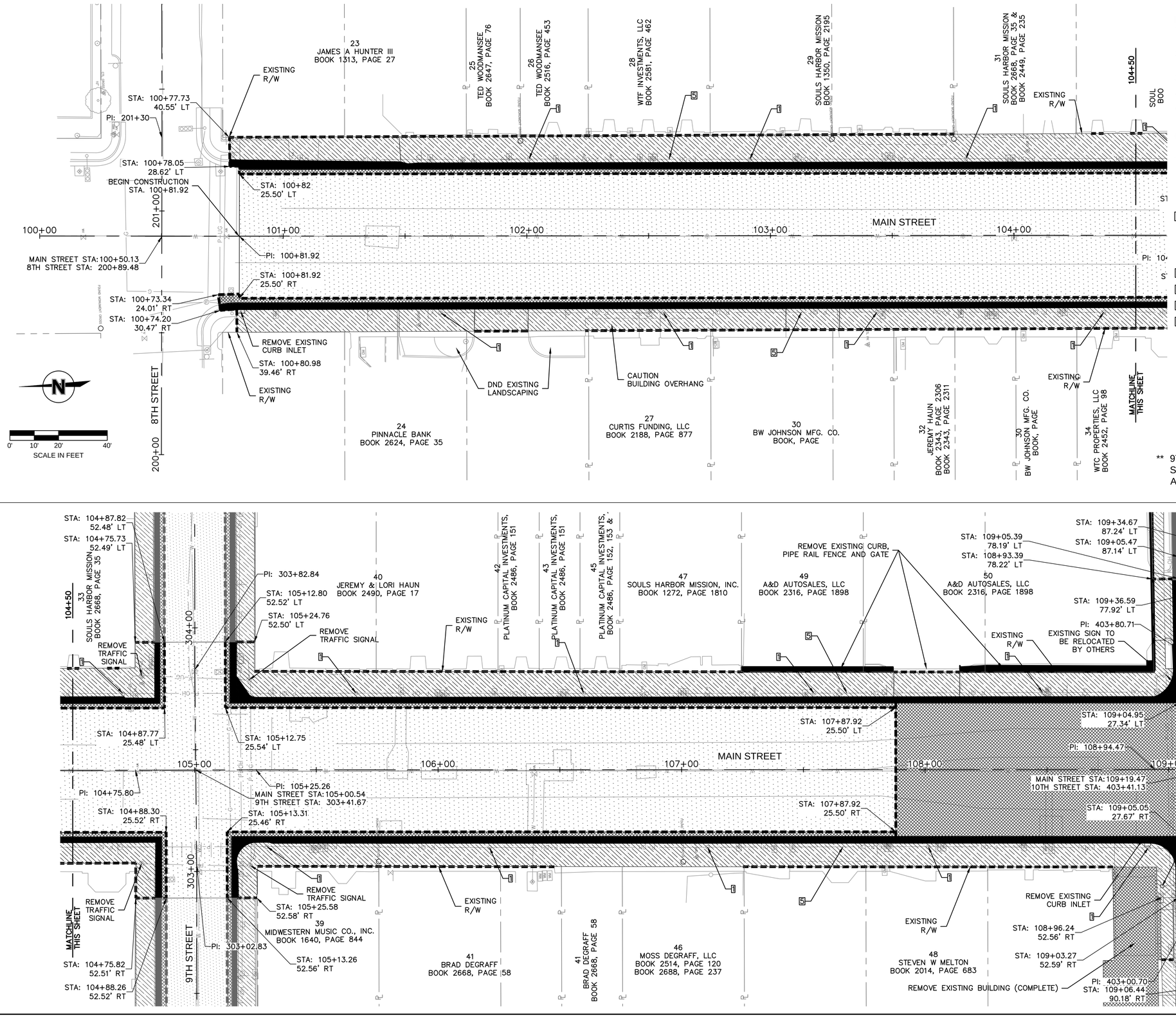
2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_TYP01_02300893
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SHEET
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DEMOLITION AND REMOVAL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

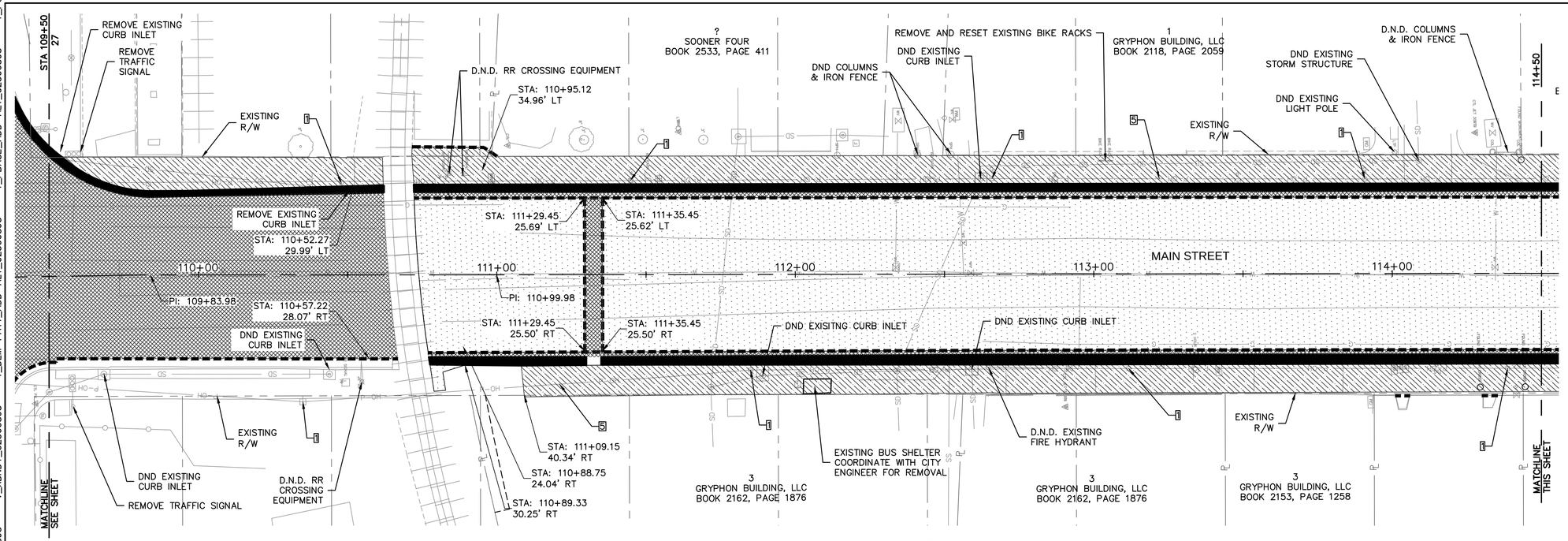
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T_DEM-PATT_ADD-ALT_02300893 V_XBNDY_02300893 T_DEM-PATT_ADD-ALT_02300893 T_PBASE_ADD-ALT_02300893 T_POWN_02300893




LEGEND:

- PAVEMENT MILLING
- FULL DEPTH REMOVAL
- STORM DRAIN REMOVAL
- CONCRETE REMOVAL
- CONCRETE CURB REMOVAL
- SAWCUT

NOTES

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** 12TH STREET
SEE SHEET 32 - 34 FOR BID ALTERNATIVE DETAILS

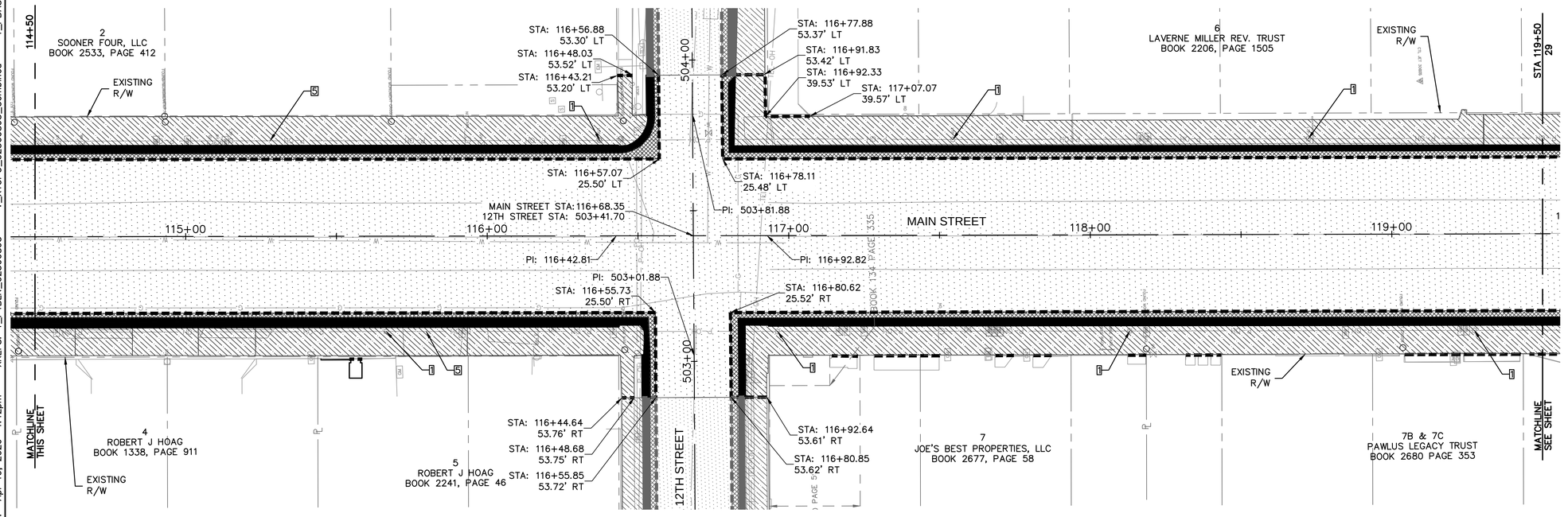
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3 REMOVE EXISTING STORM WATER INLET

4 REMOVE EXISTING STORM DRAIN PIPE

5 RELOCATE SERVICE TO STREET LIGHTS UNDERGROUND




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REVISIONS

DEMOLITION AND REMOVAL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2025

JOPLIN, MO

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checked by: MJM
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SEE SHEET 33 FOR BASE BID DEMO AND REMOVALS

STA: 120+05.37
52.56' LT
STA: 119+92.90
52.52' LT
STA: 120+28.92
52.46' LT
STA: 120+38.57
52.42' LT
STA: 120+42.43
52.40' LT
STA 119+50
28
604+00
8
HAROLD SCHEID
BOOK 1154, PAGE 960
EXISTING
R/W
12
FRATERNAL ORDER OF EAGLES
BOOK 1342, PAGE 714
APPARENT BNSF R/W
EXISTING
R/W
124+50
N
0' 10' 20' 40'
SCALE IN FEET
STA: 120+05.52
25.52' LT
PI: 603+80.36
MAIN STREET STA: 120+18.07
13TH STREET STA: 603+40.07
STA: 120+37
25.49' LT
120+00
121+00
MAIN STREET
122+00
123+00
124+00
PI: 119+92.92
PI: 120+46.48
PI: 603+00.34
STA: 120+05.98
25.48' RT
STA: 120+37.28
25.51' RT
603+00
EXISTING
R/W
MATCHLINE
SEE SHEET
STA: 119+93.37
52.48' RT
STA: 119+98.23
52.47' RT
STA: 120+05.93
52.46' RT
13TH STREET
STA: 120+42.48
52.53' RT
STA: 120+30.46
52.55' RT
10
LONNIE D & KATHLEEN D MOSS
BOOK 2686, PAGE 286
11 & 13
LONNIE D & KATHLEEN D MOSS
BOOK 2081, PAGE 700
13
LONNIE D & KATHLEEN D MOSS
BOOK, PAGE
EXISTING
R/W
REMOVE ABANDONED
RAILROAD TIES AND
RAILS TO
RIGHT-OF-WAY
APPARENT
BNSF R/W
MATCHLINE
THIS SHEET

** 13TH STREET AND 14TH STREET
SEE SHEETS 33 - 34 FOR BID
ALTERNATIVE DETAILS

LEGEND:
- PAVEMENT MILLING
- FULL DEPTH REMOVAL
- STORM DRAIN REMOVAL
- CONCRETE REMOVAL
- CONCRETE CURB REMOVAL
- SAWCUT

STA: 125+14.43
50.51' LT
PI: 703+81.82
STA: 125+39
53.74' LT
STA: 125+43.50
53.71' LT
15
RICHARD L HATFIELD
BOOK 2228, PAGE 899
17
SOUTHWIND PROPERTIES, LLC
BOOK 2455, PAGE 349
19
BALDWIN RENTAL INVESTMENTS, LLC
BOOK 1962, PAGE 1918
21
BRENDA KAY BURT
BOOK 1497, PAGE 393
124+50
STA: 124+94
49.61' LT
REMOVE ABANDONED
RAILROAD TIES AND
RAILS TO
RIGHT-OF-WAY
704+00
4
3
EXISTING
R/W
D.N.D.
BUILDING
CANOPY
EXISTING
R/W
STA: 128+04.50
39.79' LT
STA: 124+85.94
40.03' LT
STA: 125+14.62
25.42' LT
STA: 125+38.53
24.85' LT
STA: 128+04.51
25.87' LT
END CONSTRUCTION
STA. 128+04.55
MAIN STREET STA:125+26.51
14TH STREET STA: 703+42
125+00
MAIN STREET
126+00
127+00
128+00
128+99.99
PI: 125+01.21
PI: 703+42
PI: 125+51.21
PI: 128+01.60
STA: 125+13.90
25.58' RT
PI: 703+01.98
STA: 125+38.61
25.39' RT
STA: 128+04.58
25.88' RT
703+00
MATCHLINE
THIS SHEET
STA: 125+01.43
52.59' RT
STA: 125+13.61
52.65' RT
14TH STREET
STA: 125+51.73
40.19' RT
STA: 125+51.43
52.50' RT
STA: 125+38.40
52.41' RT
EXISTING
R/W
D.N.D.
BUILDING
CANOPY
STA: 128+04.68
39.65' RT
14
PAR-LEE INVESTMENTS, LLC
BOOK 2312, PAGE 1732
16
ASCENT REVOVERY RESIDENCES
BOOK 2579, PAGE 415
18
JACK & DIANE DAVIS TRUST
BOOK 2457, PAGE 189
20
POWERS UNITED, LLC
BOOK 2499, PAGE 396
22
TOM W & MARSHA A JENSEN
BOOK 1605, PAGE 1575

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2 REMOVE EXISTING TREE

3 REMOVE EXISTING STORM WATER INLET

4 REMOVE EXISTING STORM DRAIN PIPE

5 RELOCATE SERVICE TO STREET LIGHTS UNDERGROUND

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4/27/2026
PROFESSIONAL ENGINEER

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REVISIONS

DEMOLITION AND REMOVAL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

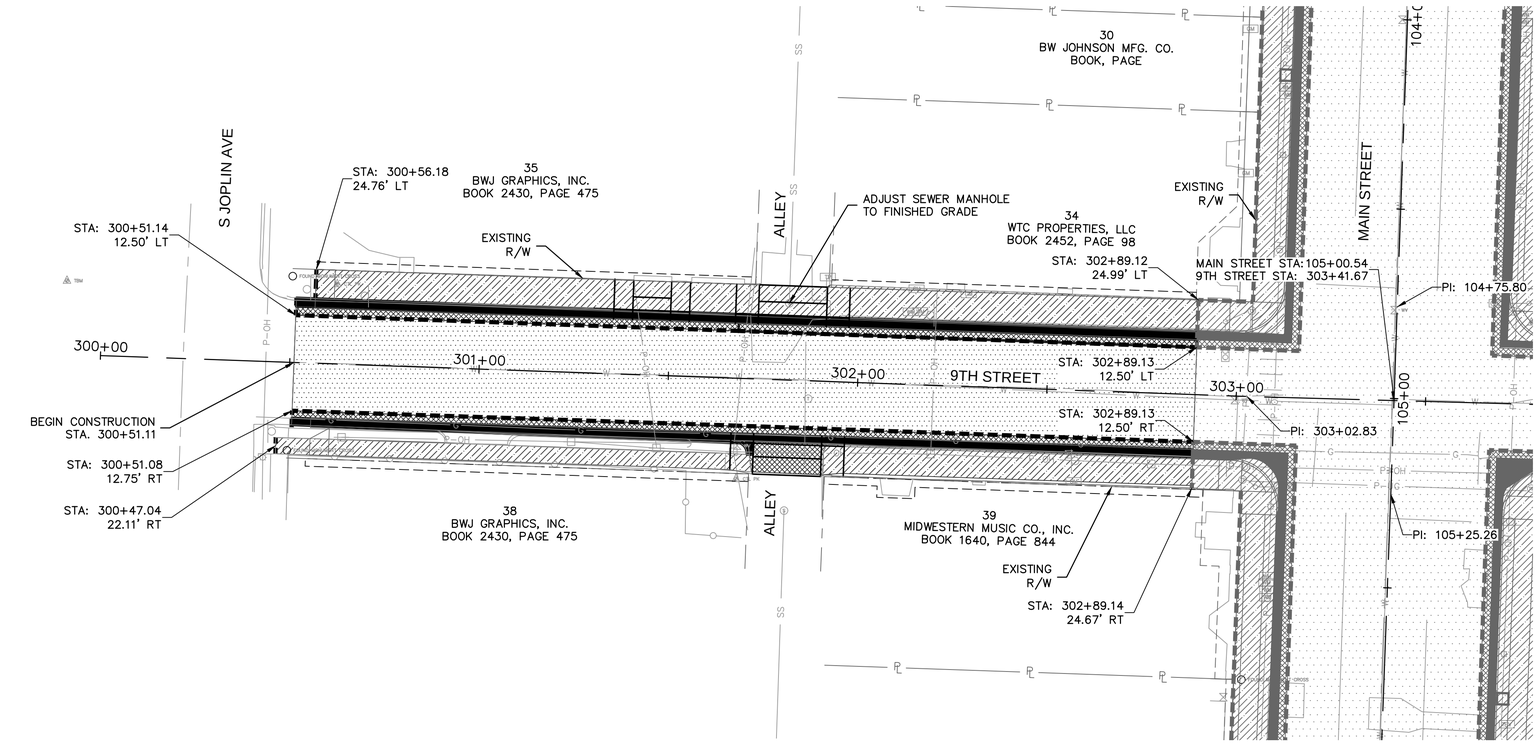
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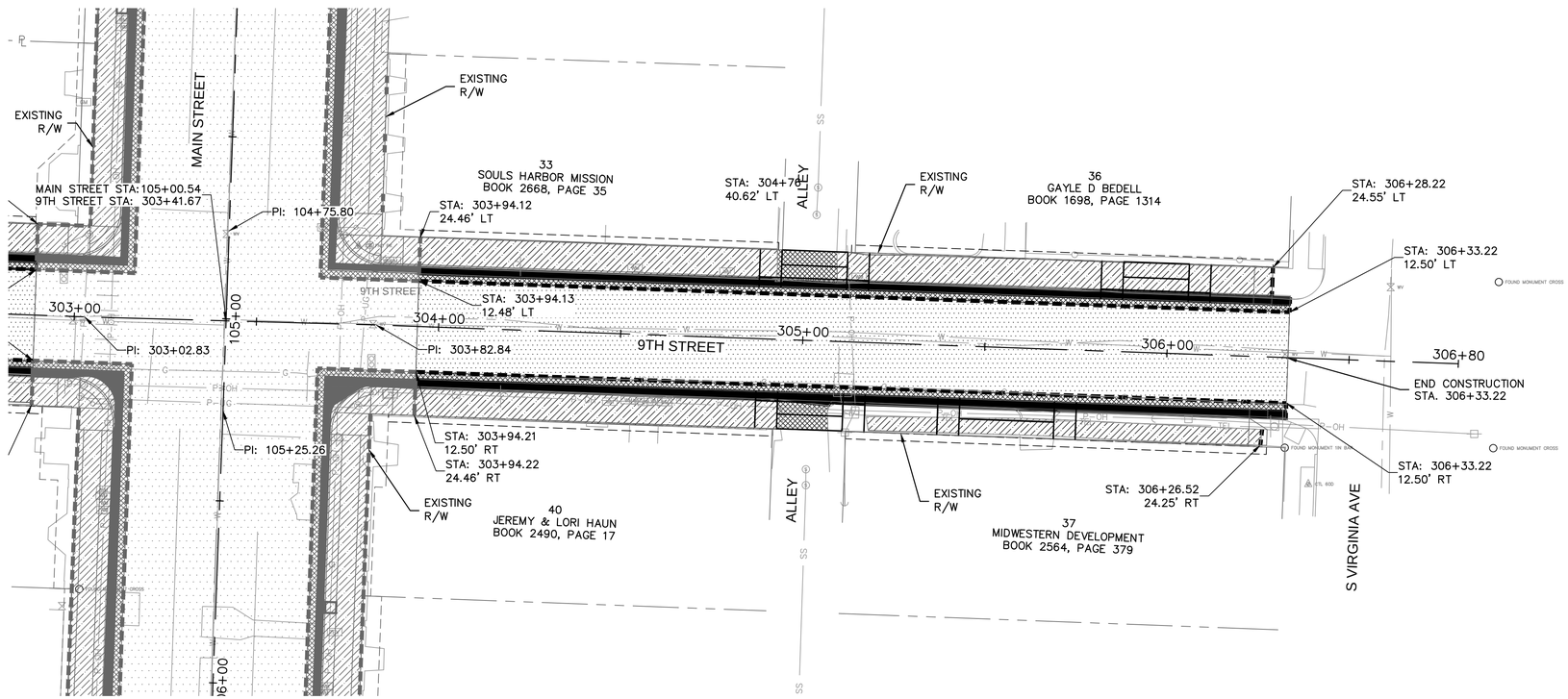
JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
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project no.: 023-00893
drawing no.: T_DEM01_02300893
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[2] REMOVE EXISTING TREE

[3] REMOVE EXISTING STORM WATER INLET

[4] REMOVE EXISTING STORM DRAIN PIPE

[5] RELOCATE SERVICE TO STREET LIGHTS UNDERGROUND

LEGEND:

- PAVEMENT MILLING
- FULL DEPTH REMOVAL
- STORM DRAIN REMOVAL
- CONCRETE REMOVAL
- CONCRETE CURB REMOVAL
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** MAIN STREET - 8TH TO 15TH STREET
SEE SHEETS 27 - 29 FOR BASE BID REMOVALS


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REVISIONS

DEMOLITION AND REMOVAL PLANS
BID ALTERNATIVE #1

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

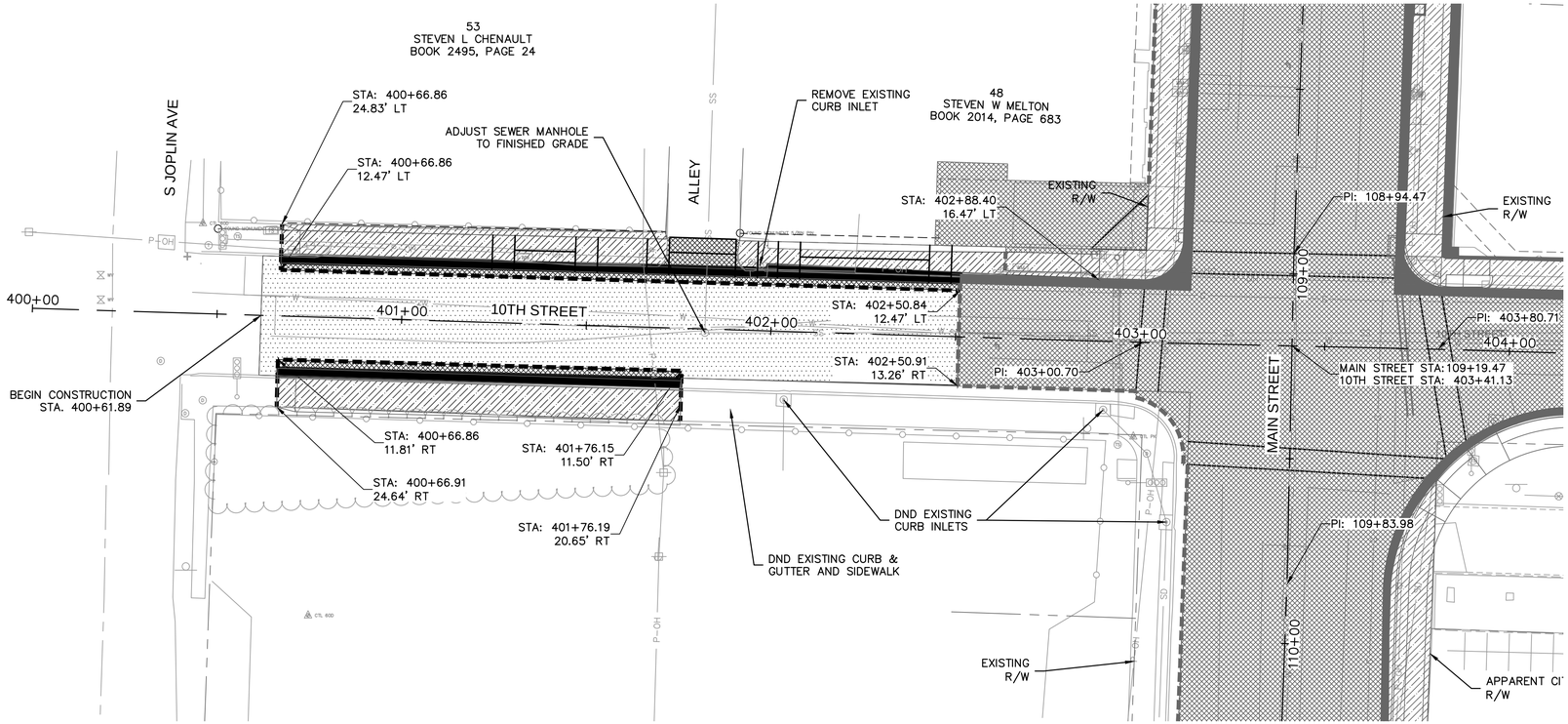
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2025

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[3] REMOVE EXISTING STORM WATER INLET

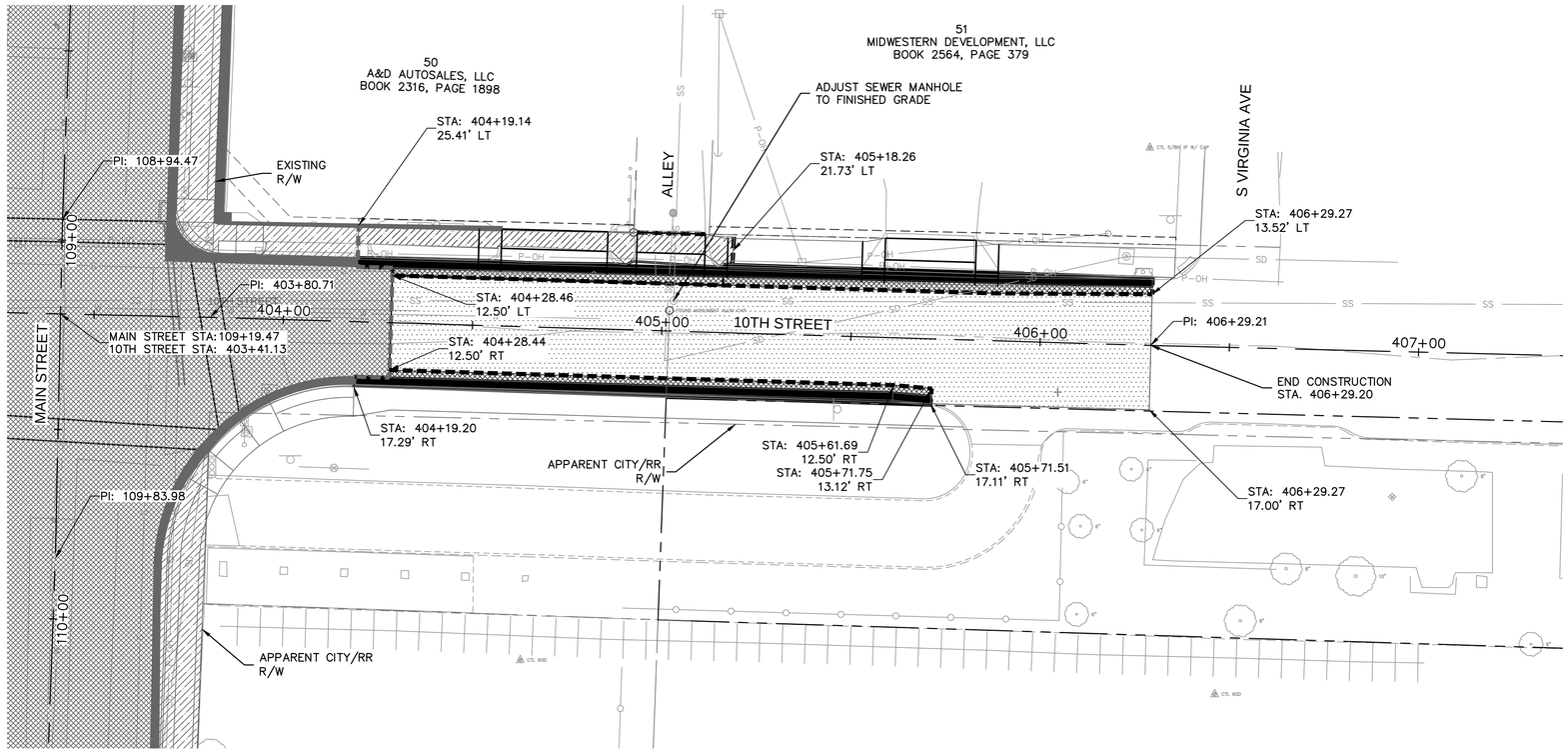
[4] REMOVE EXISTING STORM DRAIN PIPE

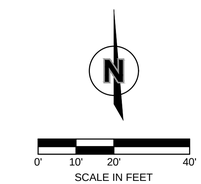
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LEGEND:

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DEMOLITION AND REMOVAL PLANS
BID ALTERATIVE #2

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

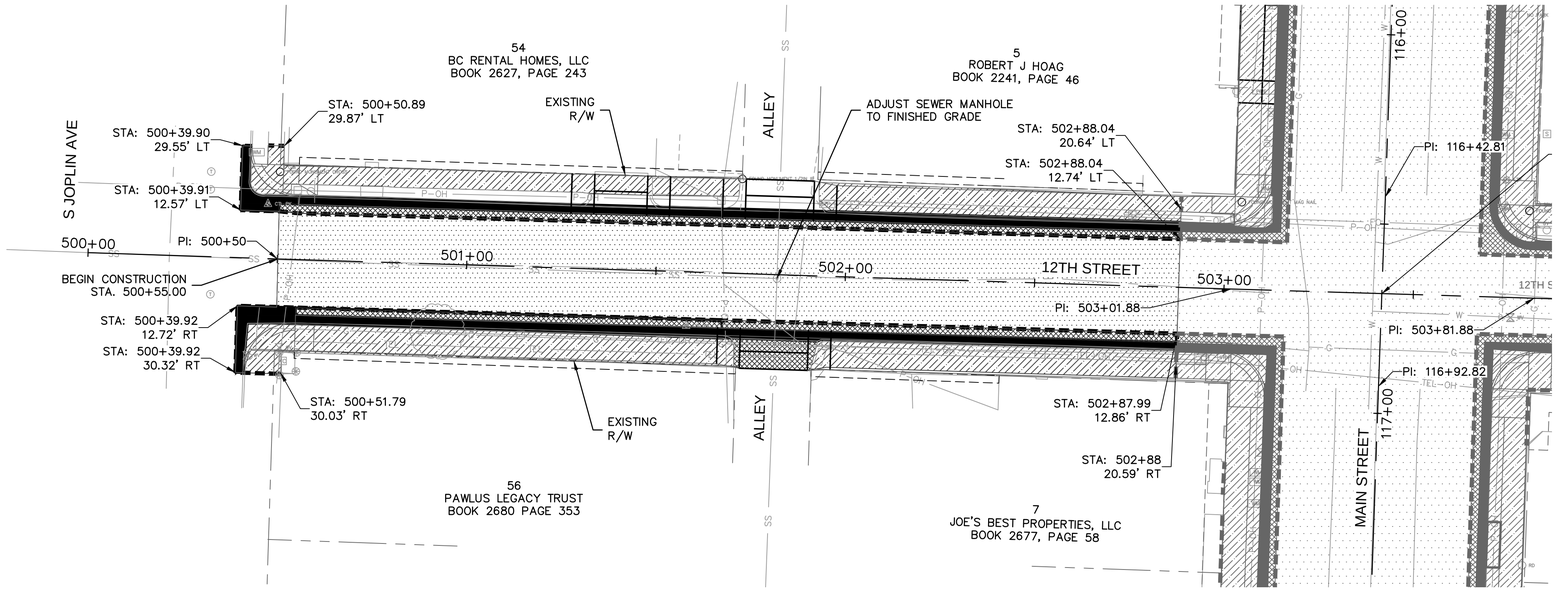
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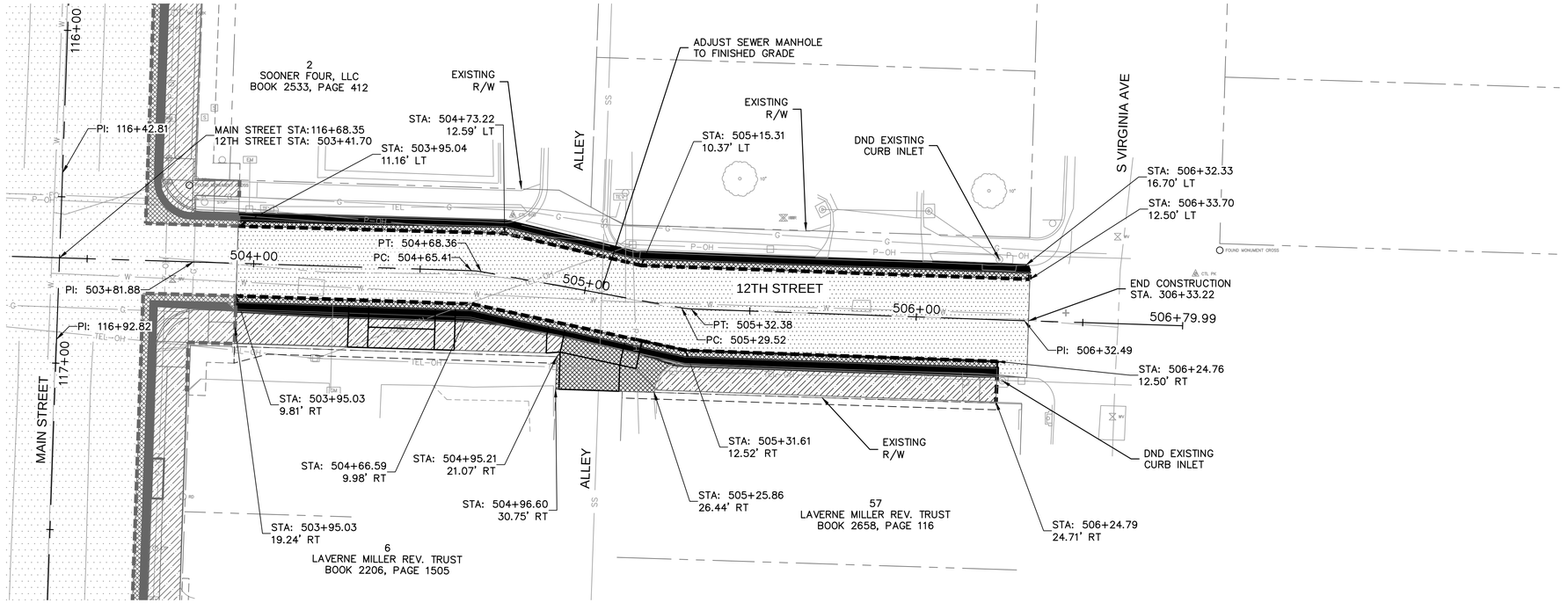
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MICHAEL J MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

DEMOLITION AND REMOVAL PLANS
BID ALTERNATIVE #3

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

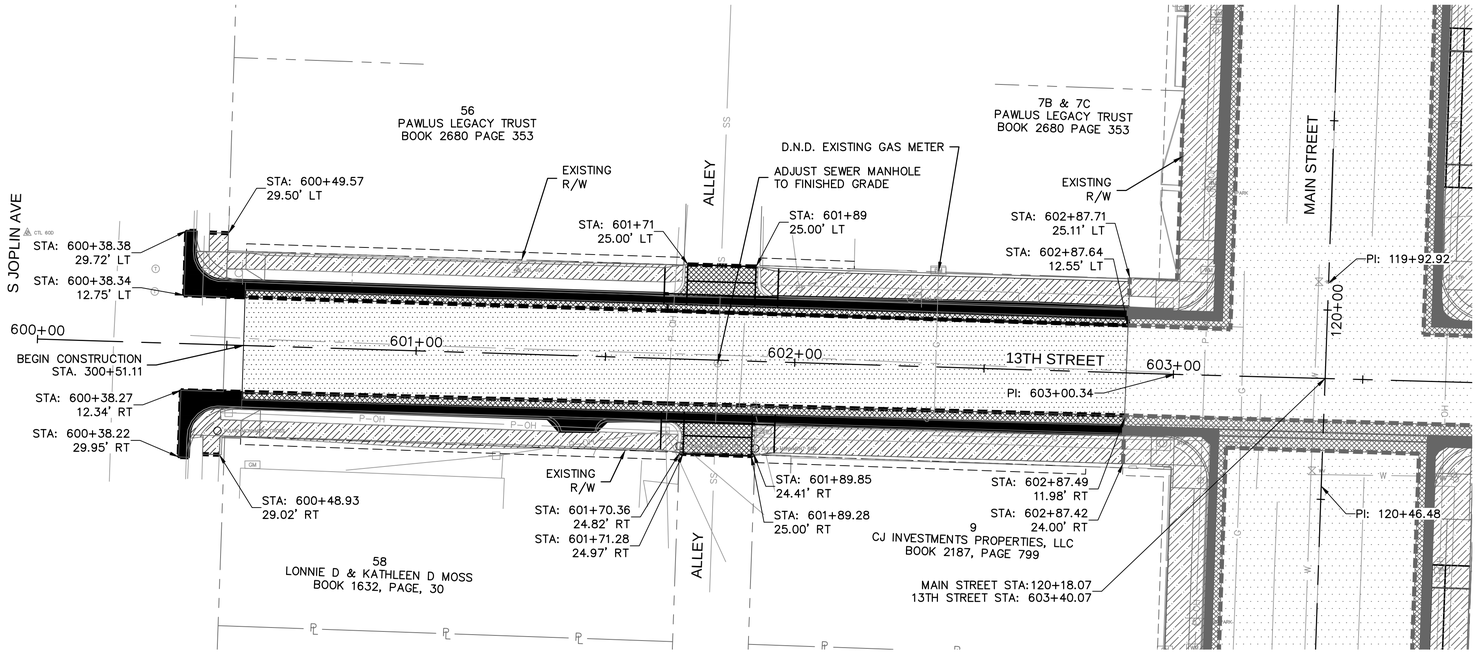
2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DEM02_02300893
date: 4.19.2026

SHEET
32 of 162

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T_DEM-PATT_ADD-ALT_02300893 V_XBNDY_02300893 T_PBASE_ADD-ALT_02300893




## NOTES

1. ALL REMOVED MATERIAL SHALL BE DISPOSED OF OFF-SITE AT AN APPROVED DISPOSAL SITE AT CONTRACTORS EXPENSE UNLESS OTHERWISE NOTED.
2. SAWCUT SHALL BE CONSIDERED SUBSIDIARY TO REMOVAL OF EXISTING IMPROVEMENTS. THERE SHALL BE NO DIRECTED PAY FOR SAWCUT.
3. SAWCUT OF EXISTING SIDEWALK SHALL BE AT THE NEAREST JOINT LINE.
4. ALL WORK SHALL BE COMPLETED WITH-IN RIGHT-OF-WAY UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL COORDINATE REMOVAL. RELOCATION, AND/OR PROTECTION OF EXISTING SIGNAGE WITH CITY.
6. CURB AND GUTTER REMOVAL ANTICIPATES AN EXISTING FULL WIDTH CURB AND GUTTER UNDER THE EXISTING ASPHALT.
7. CONTRACTOR SHALL MAINTAIN AND COORDINATE OWNER, TENANT, DELIVERY AND EMERGENCY ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES, SEE NOTE 48 ON SHEET 2 FOR MORE DETAILS.

[1] EXISTING STREET LIGHT FIXTURE AND POLE TO BE REMOVED BY CONTRACTOR AND DELIVERED TO EVERGY ELECTRIC.
EXISTING STREET LIGHT BASE TO BE REMOVED BY CONTRACTOR. CONTRACTOR SHALL COORDINATE REMOVALS WITH EVERGY ELECTRIC.

[2] REMOVE EXISTING TREE

[3] REMOVE EXISTING STORM WATER INLET

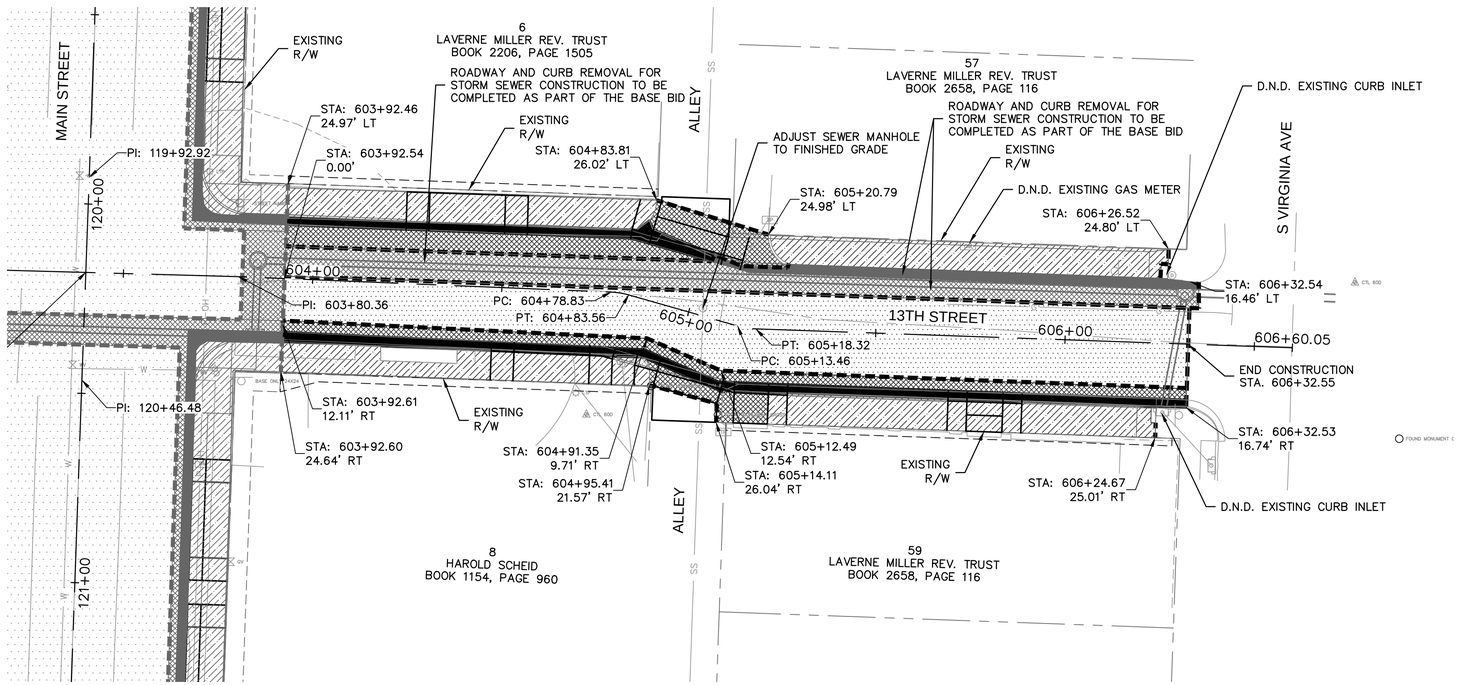
[4] REMOVE EXISTING STORM DRAIN PIPE

[5] RELOCATE SERVICE TO STREET LIGHTS UNDERGROUND

LEGEND:

- PAVEMENT MILLING
- FULL DEPTH REMOVAL
- STORM DRAIN REMOVAL
- CONCRETE REMOVAL
- CONCRETE CURB REMOVAL
- SAWCUT

** MAIN STREET - 8TH TO 15TH STREET
SEE SHEETS 27 - 29 FOR BASE BID REMOVALS




0' 10' 20' 40'
SCALE IN FEET


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PROFESSIONAL ENGINEER

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|---|---|---|---|

REVISIONS

DEMOLITION AND REMOVAL PLANS
BID ALTERNATIVE #4

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

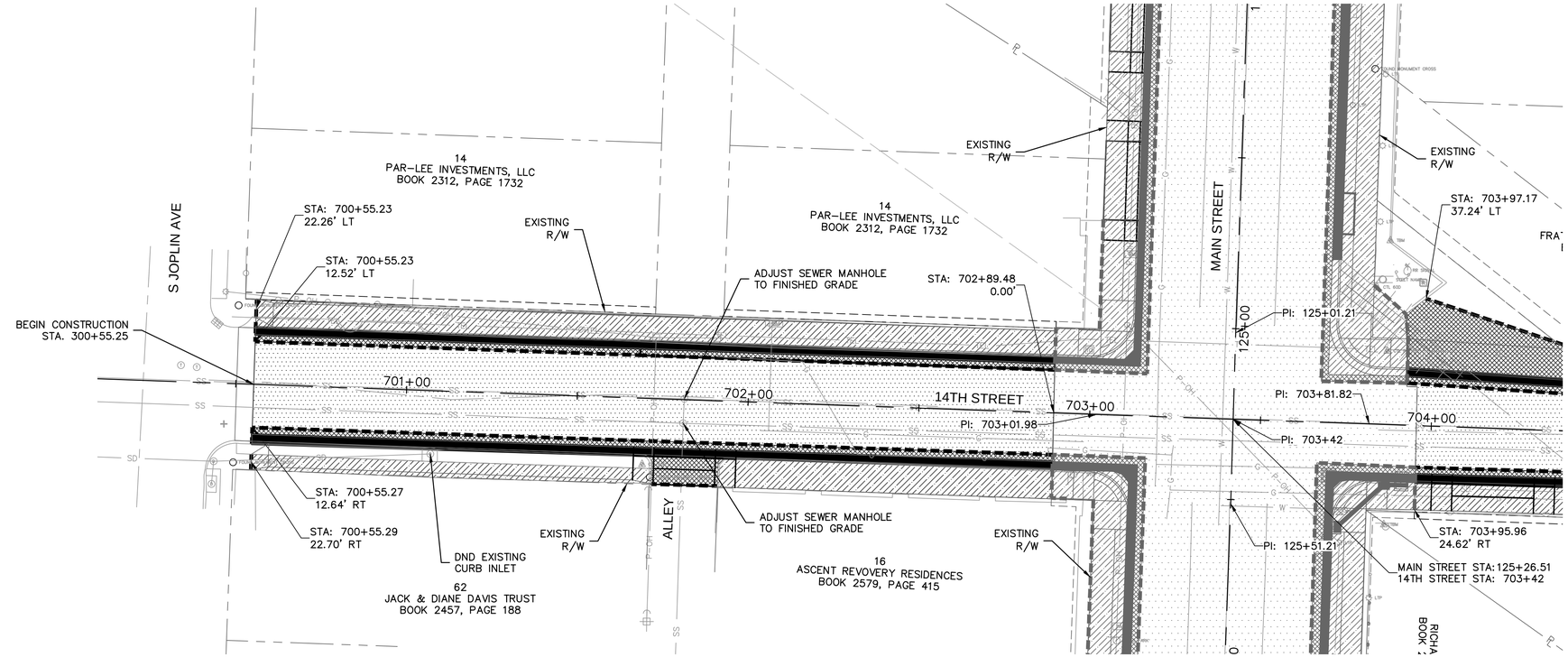
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DEM02_02300893
date: 4.19.2026



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## NOTES

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[2] REMOVE EXISTING TREE

[3] REMOVE EXISTING STORM WATER INLET

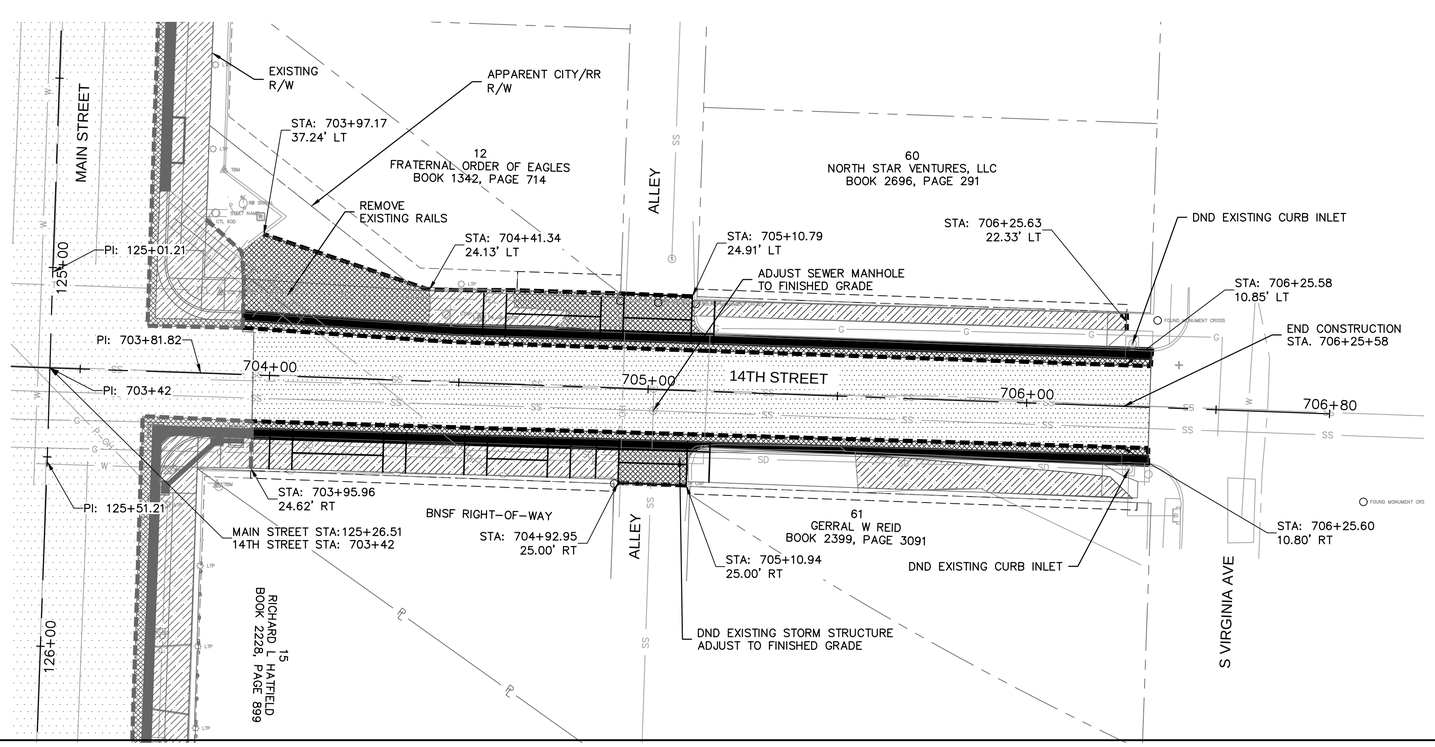
[4] REMOVE EXISTING STORM DRAIN PIPE

[5] RELOCATE SERVICE TO STREET LIGHTS UNDERGROUND

LEGEND:

- PAVEMENT MILLING
- FULL DEPTH REMOVAL
- STORM DRAIN REMOVAL
- CONCRETE REMOVAL
- CONCRETE CURB REMOVAL
- SAWCUT

** MAIN STREET - 8TH TO 15TH STREET
SEE SHEETS 27 - 29 FOR BASE BID REMOVALS




0' 10' 20' 40'
SCALE IN FEET

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MICHAEL J MAYFARTH
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4/27/2026
PROFESSIONAL ENGINEER

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REVISIONS

DEMOLITION AND REMOVAL PLANS
BID ALTERNATIVE #5

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

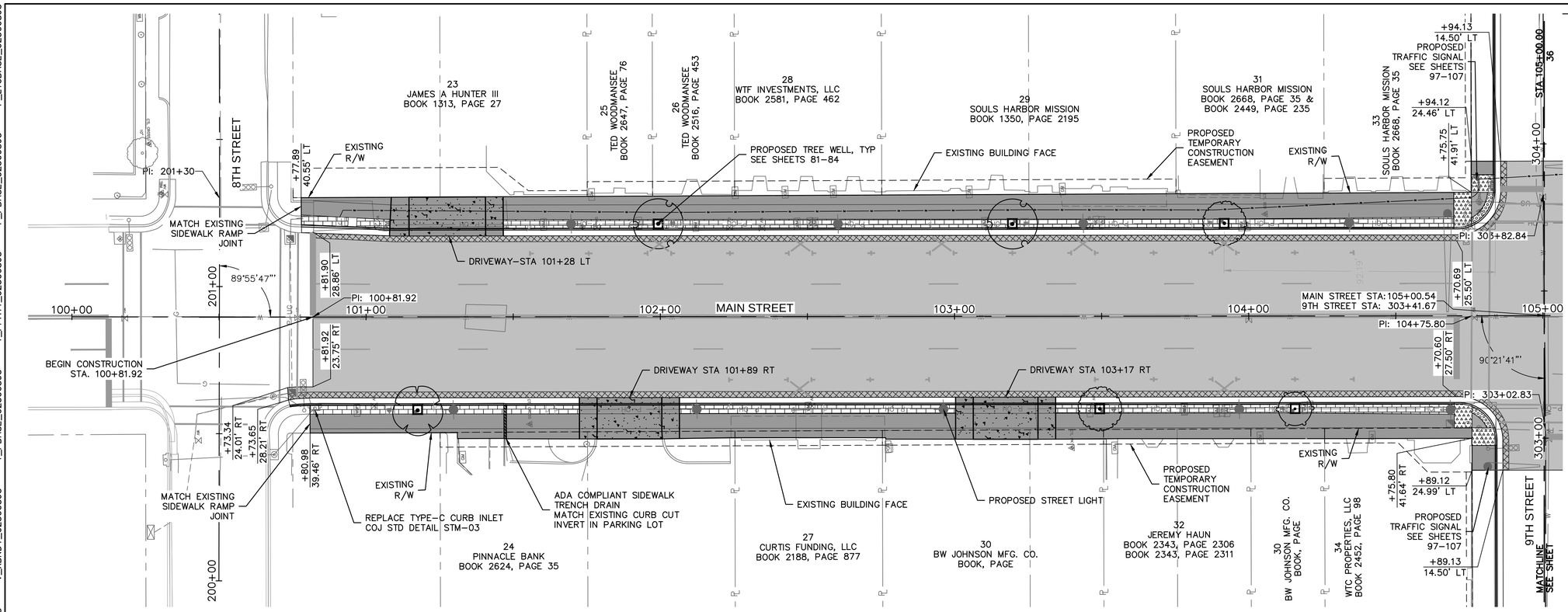
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JOPLIN, MO

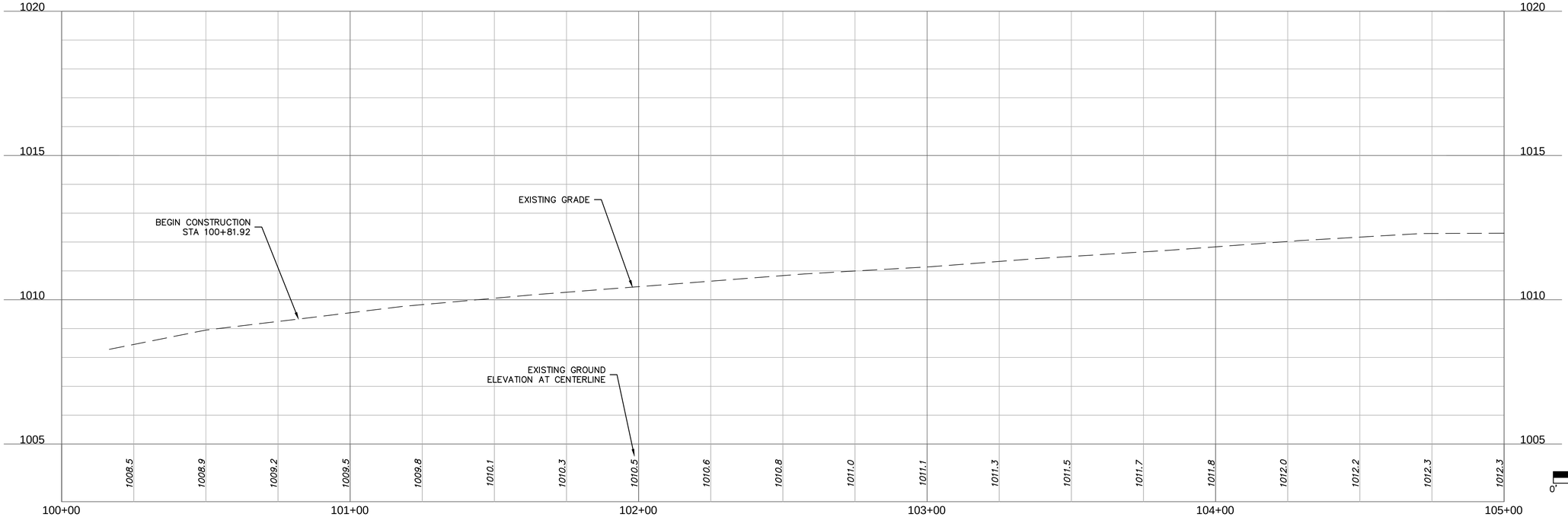
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checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DEM02_02300893
date: 4.19.2026

SHEET
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4/27/2026
PROFESSIONAL ENGINEER

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|---|---|---|---|

REVISIONS

ROADWAY PLAN AND PROFILE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

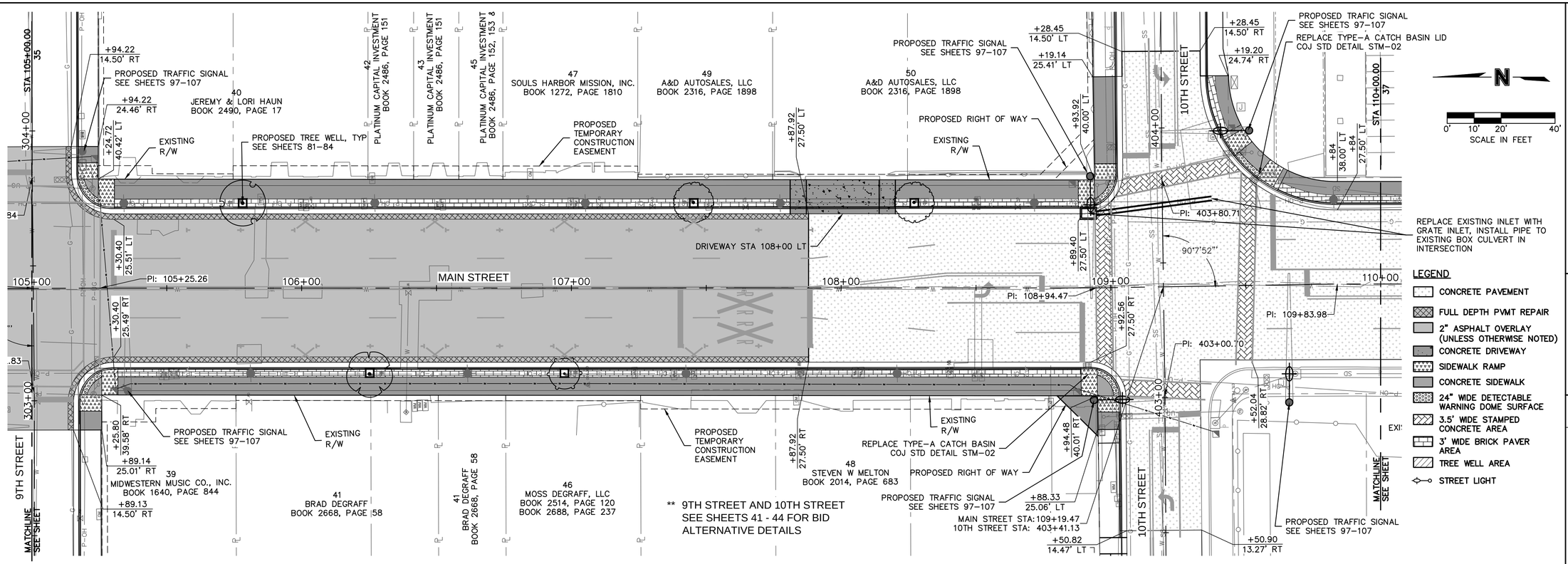
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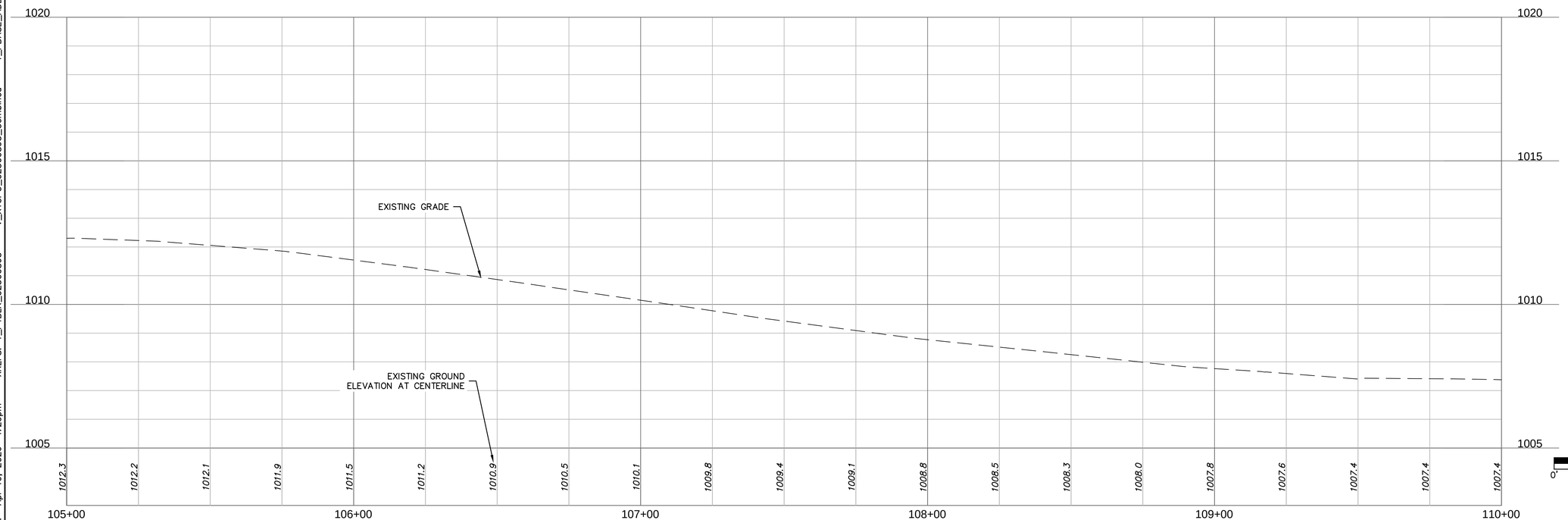
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4/27/2026
PROFESSIONAL ENGINEER

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REVISIONS

ROADWAY PLAN AND PROFILE

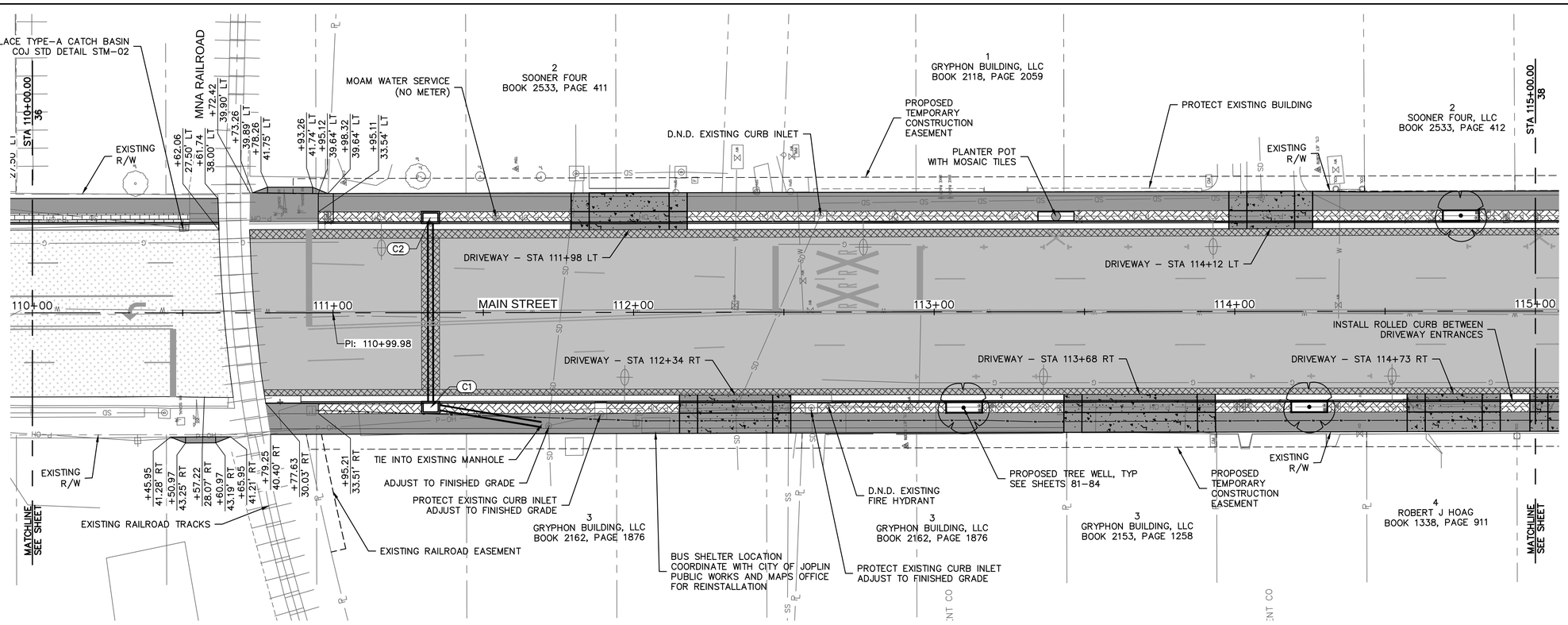
MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

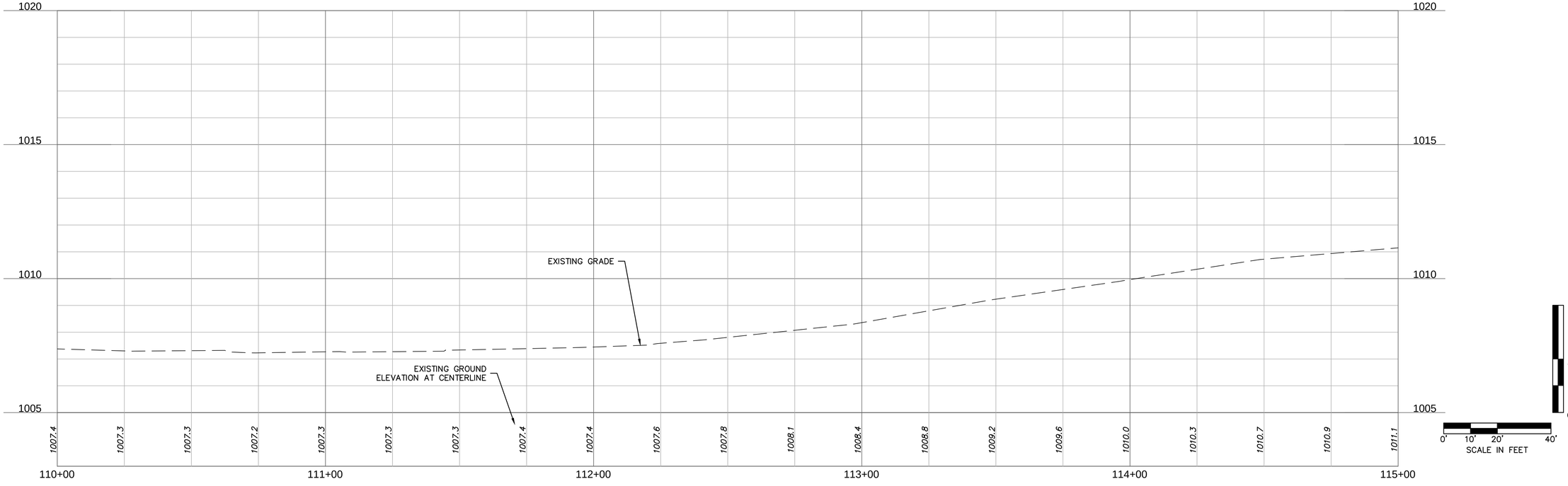
2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_RPP01_02300893
date: 4.19.2026

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# MAIN STREET (110+00 - 115+00)




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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

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|---|---|---|---|

REVISIONS

ROADWAY PLAN AND PROFILE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

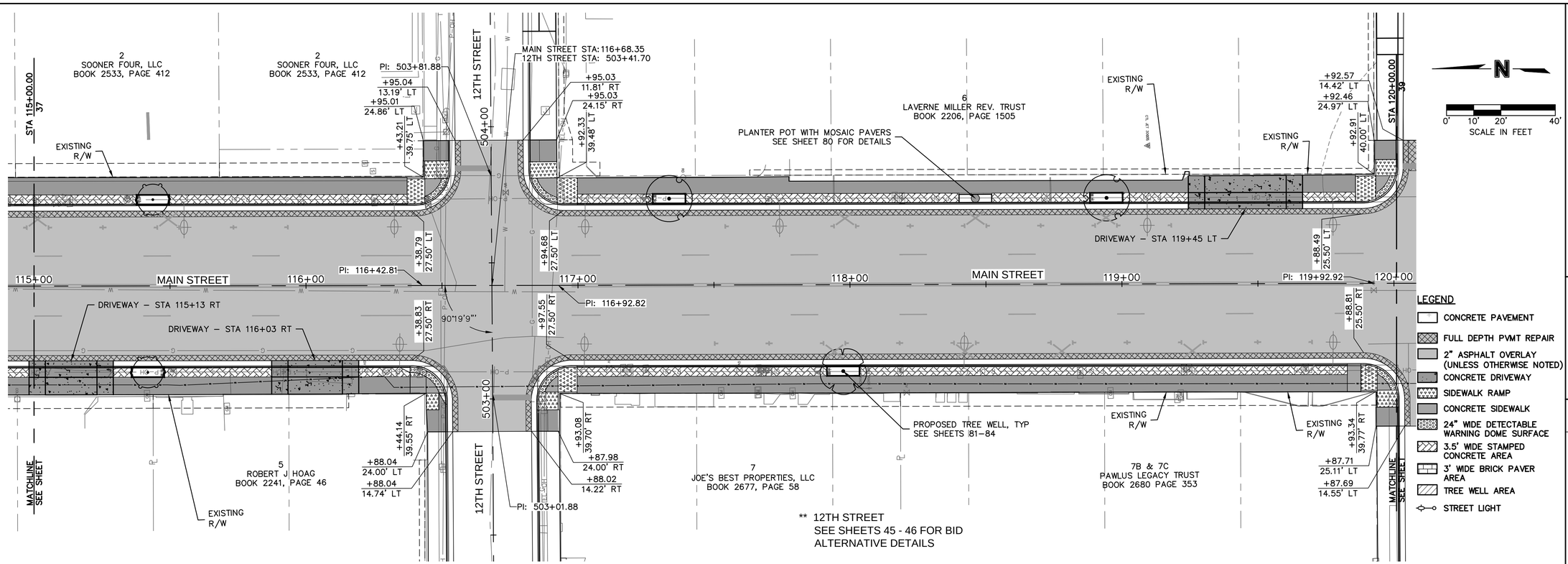
JOPLIN, MO

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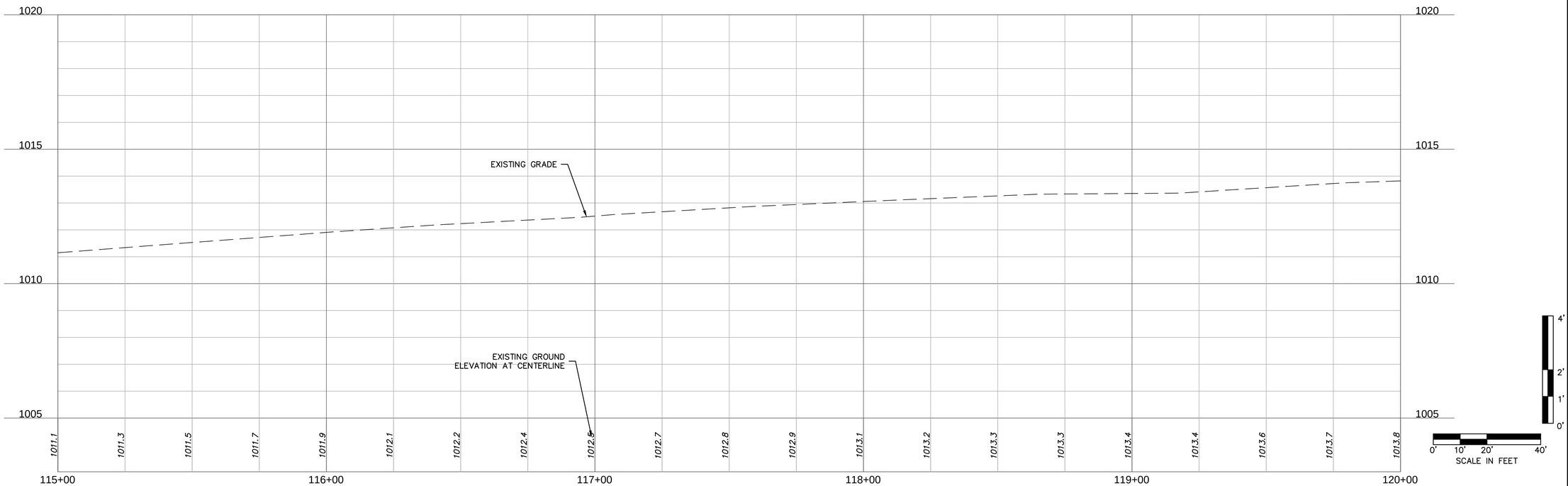
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date: 4.19.2026

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MICHAEL J. MAYFARTH
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PROFESSIONAL ENGINEER
4/27/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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REVISIONS

ROADWAY PLAN AND PROFILE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

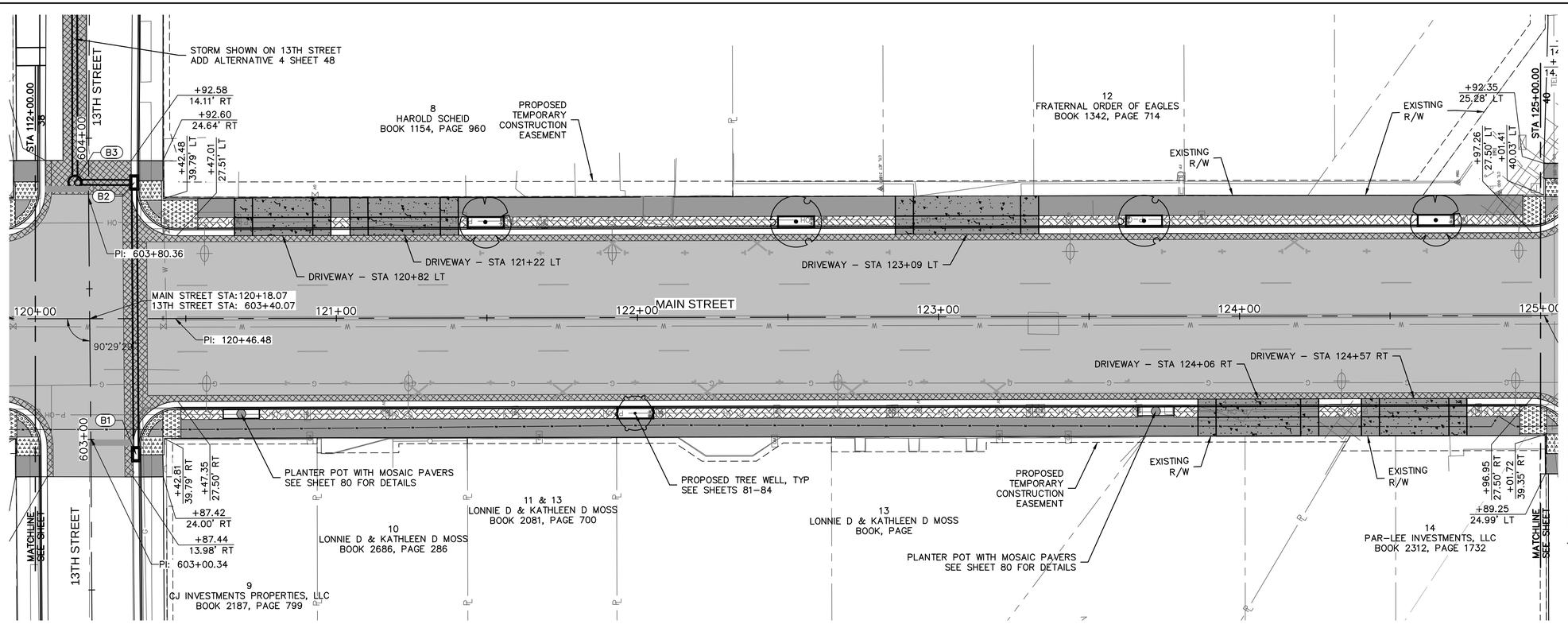
JOPLIN, MO

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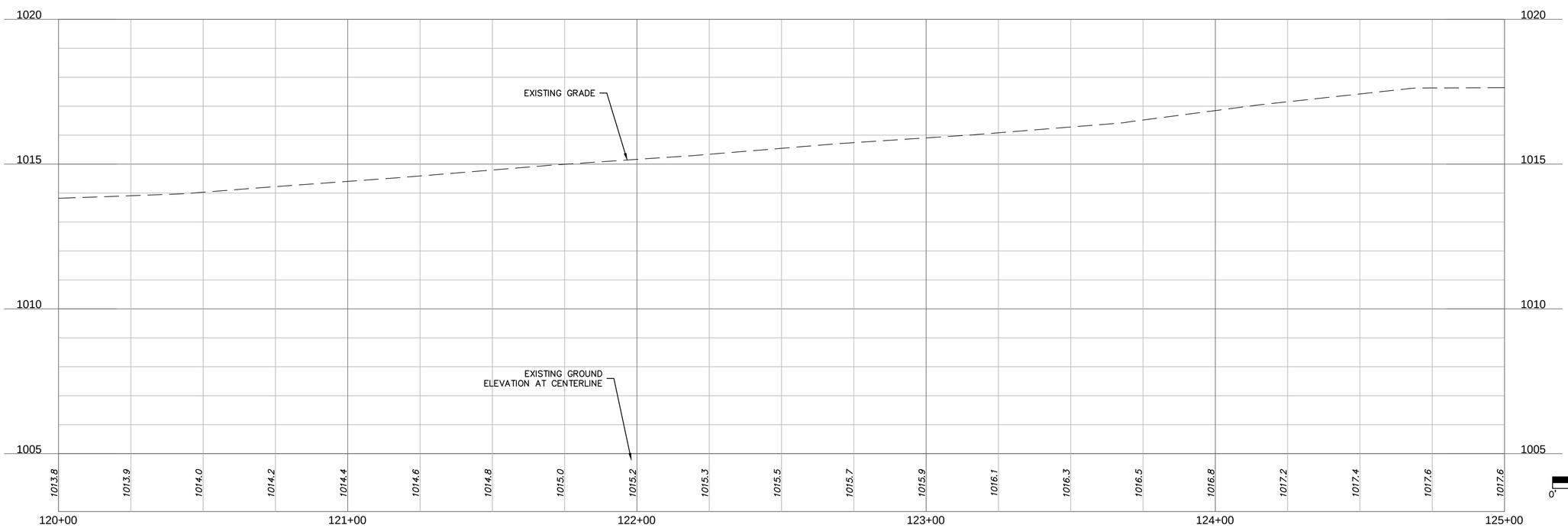
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## MAIN STREET (120+00 - 125+00)




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REVISIONS

ROADWAY PLAN AND PROFILE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

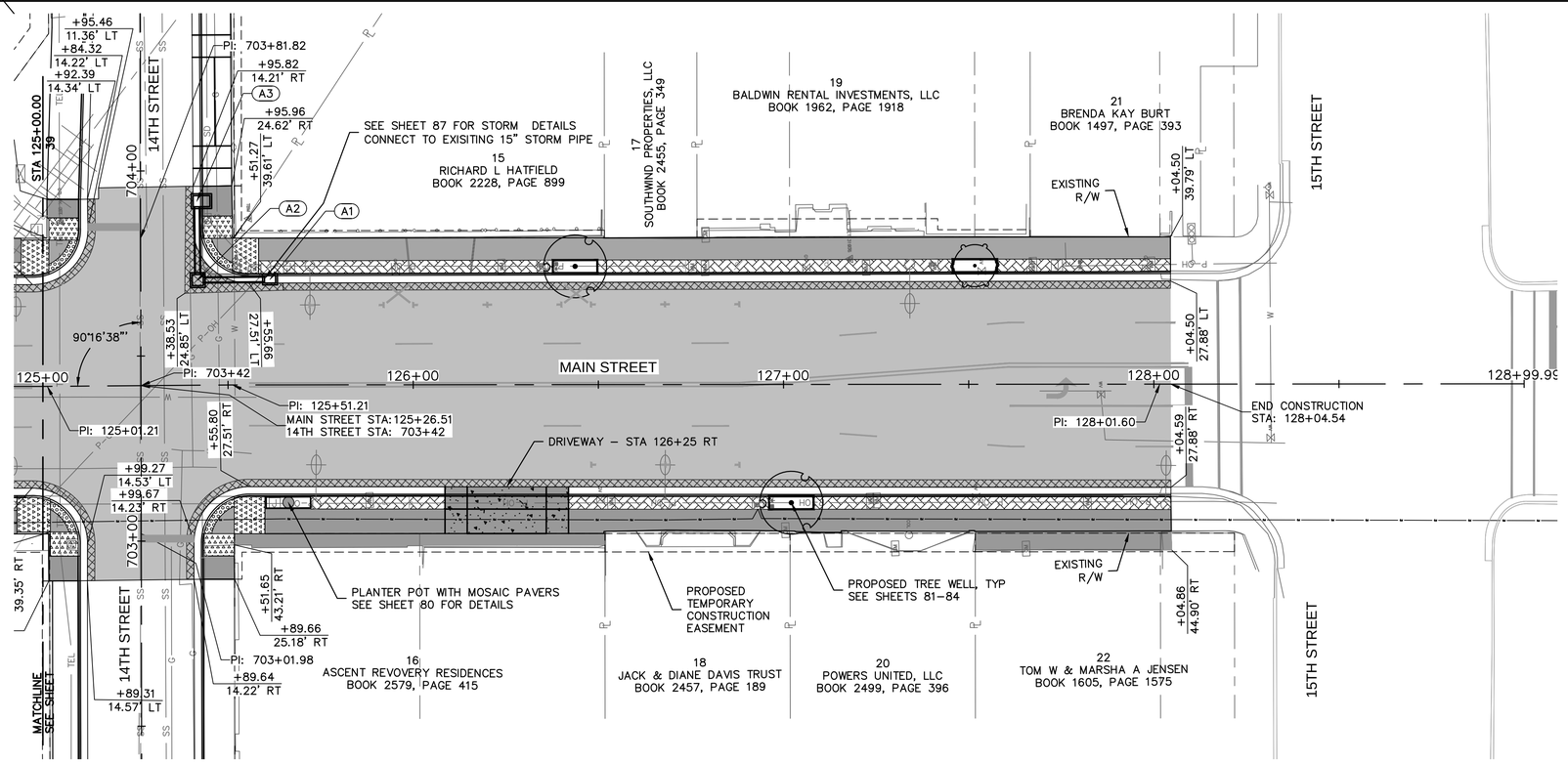
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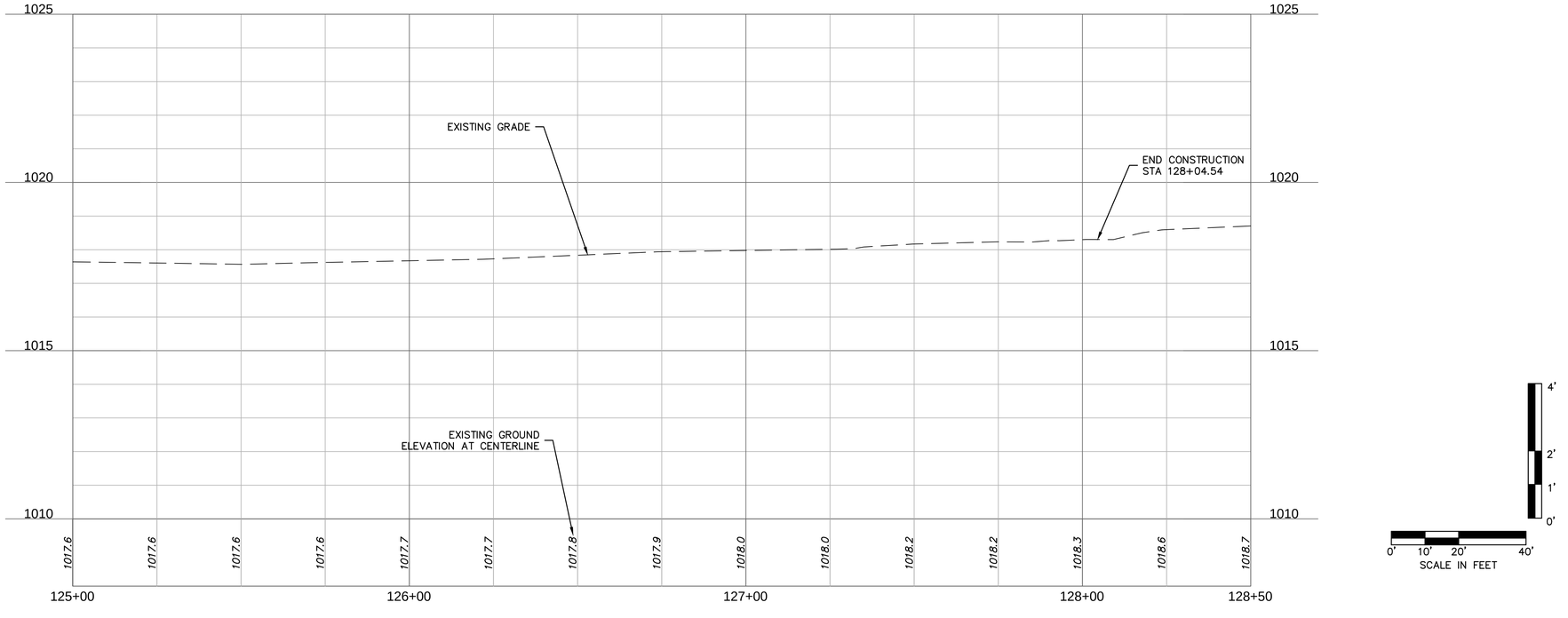
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SHEET
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## MAIN STREET (125+00 - 128+50)





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REVISIONS

ROADWAY PLAN AND PROFILE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

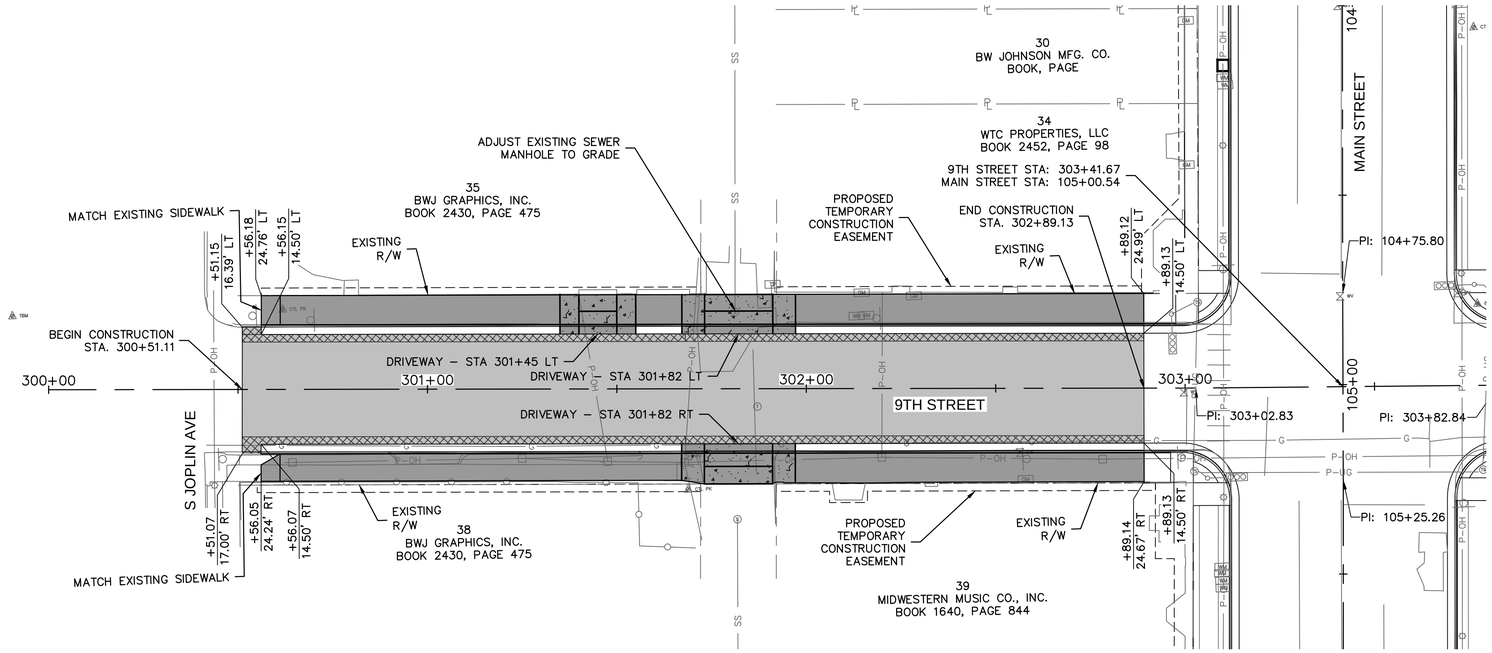
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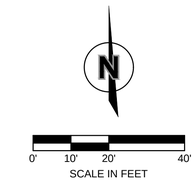
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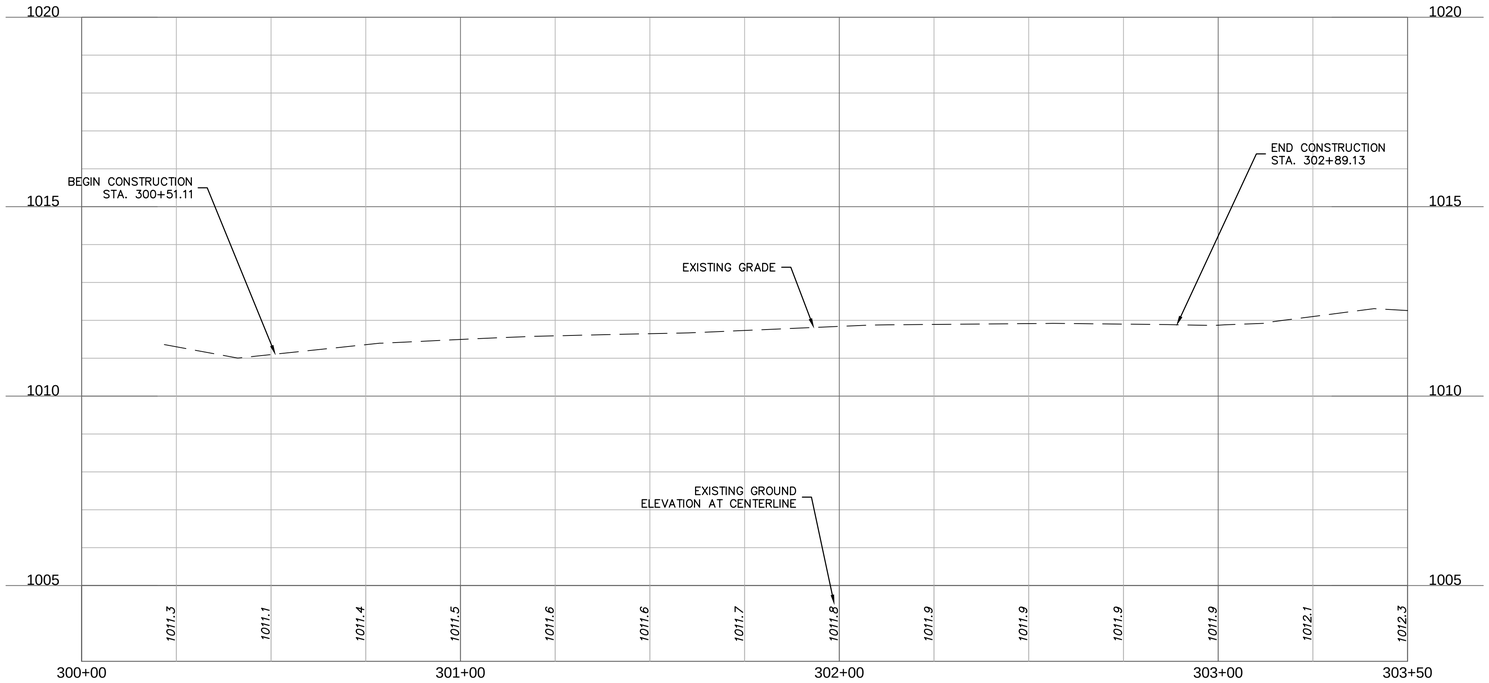


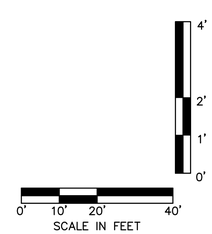




LEGEND

- FULL DEPTH PVMT REPAIR
- 2" ASPHALT OVERLAY (UNLESS OTHERWISE NOTED)
- CONCRETE DRIVE
- SIDEWALK RAMP
- SIDEWALK LANDING
- CONCRETE SIDEWALK
- 24" WIDE DETECTABLE WARNING DOME SURFACE

# 9TH STREET (300+00 - 303+50)







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STATE OF MISSOURI
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4/27/2026
PROFESSIONAL ENGINEER

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REVISIONS

ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #1

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

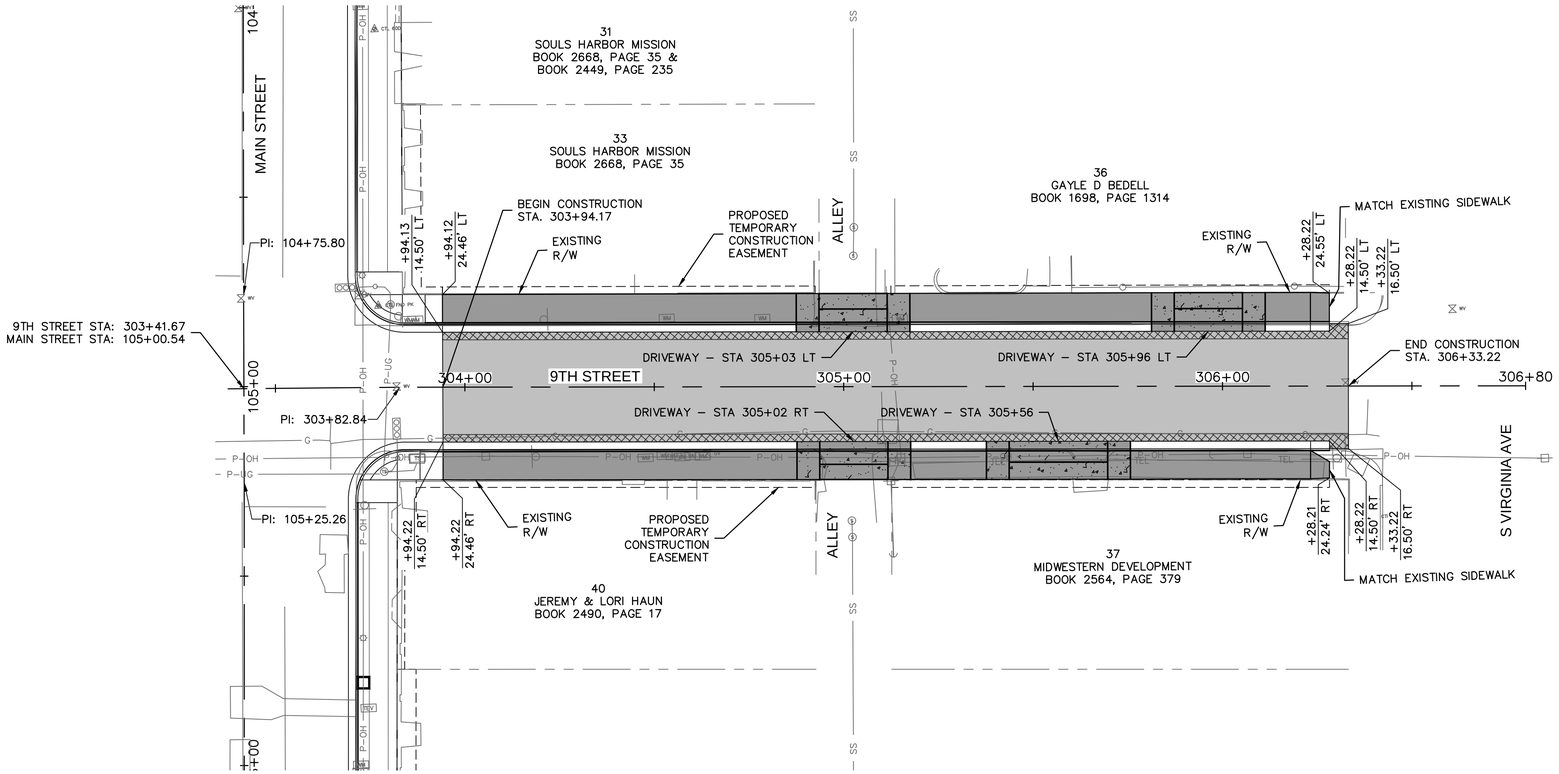
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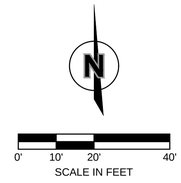
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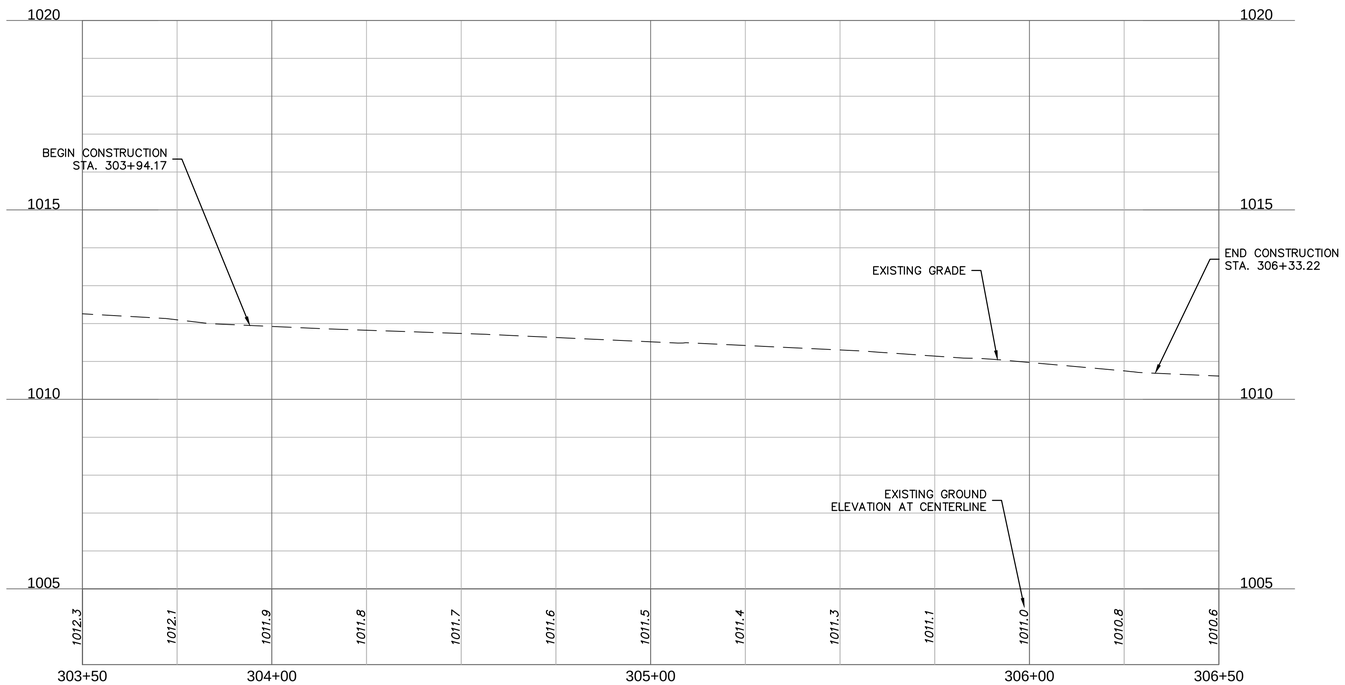


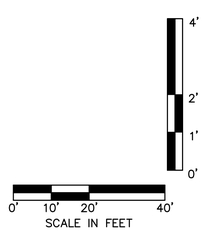




LEGEND

- FULL DEPTH PVMT REPAIR
- 2" ASPHALT OVERLAY (UNLESS OTHERWISE NOTED)
- CONCRETE DRIVE
- SIDEWALK RAMP
- SIDEWALK LANDING
- CONCRETE SIDEWALK
- 24" WIDE DETECTABLE WARNING DOME SURFACE

## 9TH STREET (303+50 - 306+50)




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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #1

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

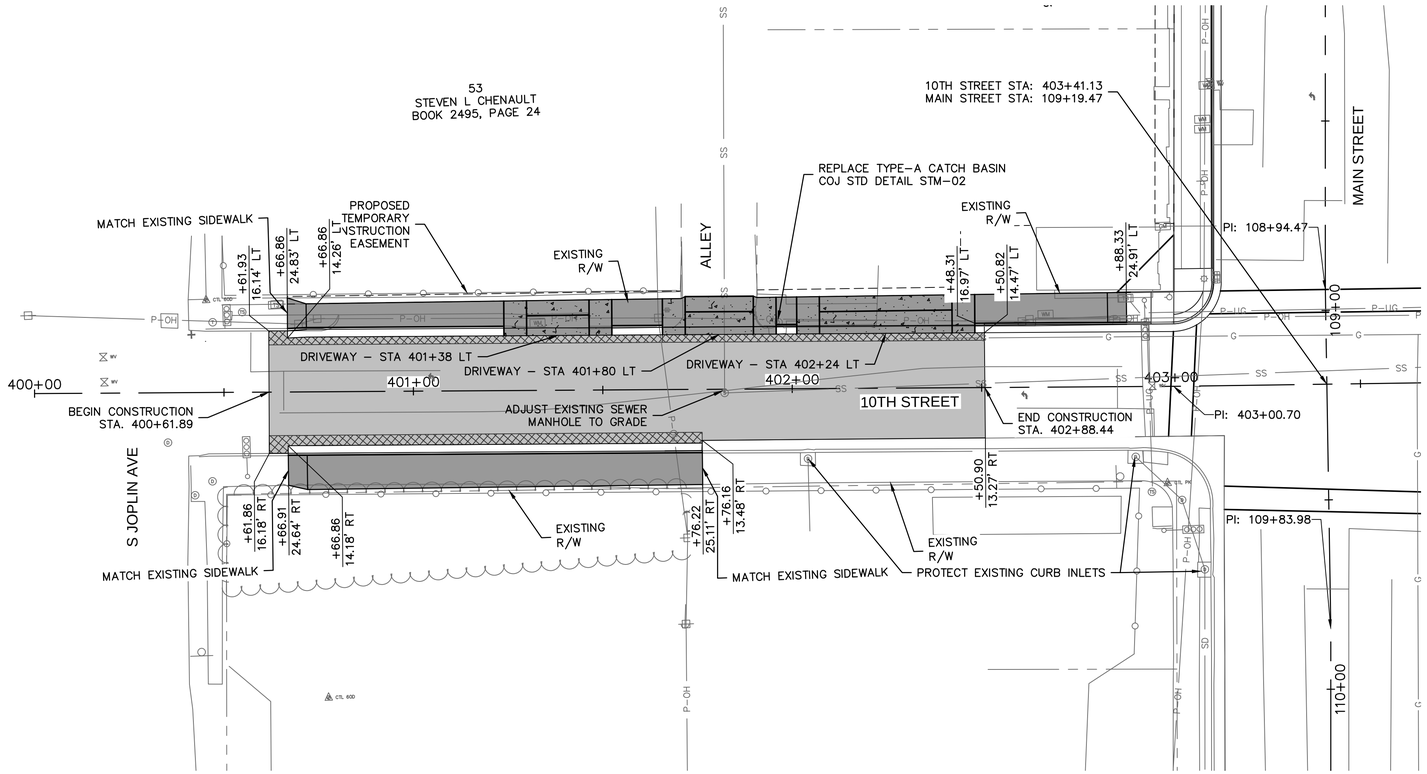
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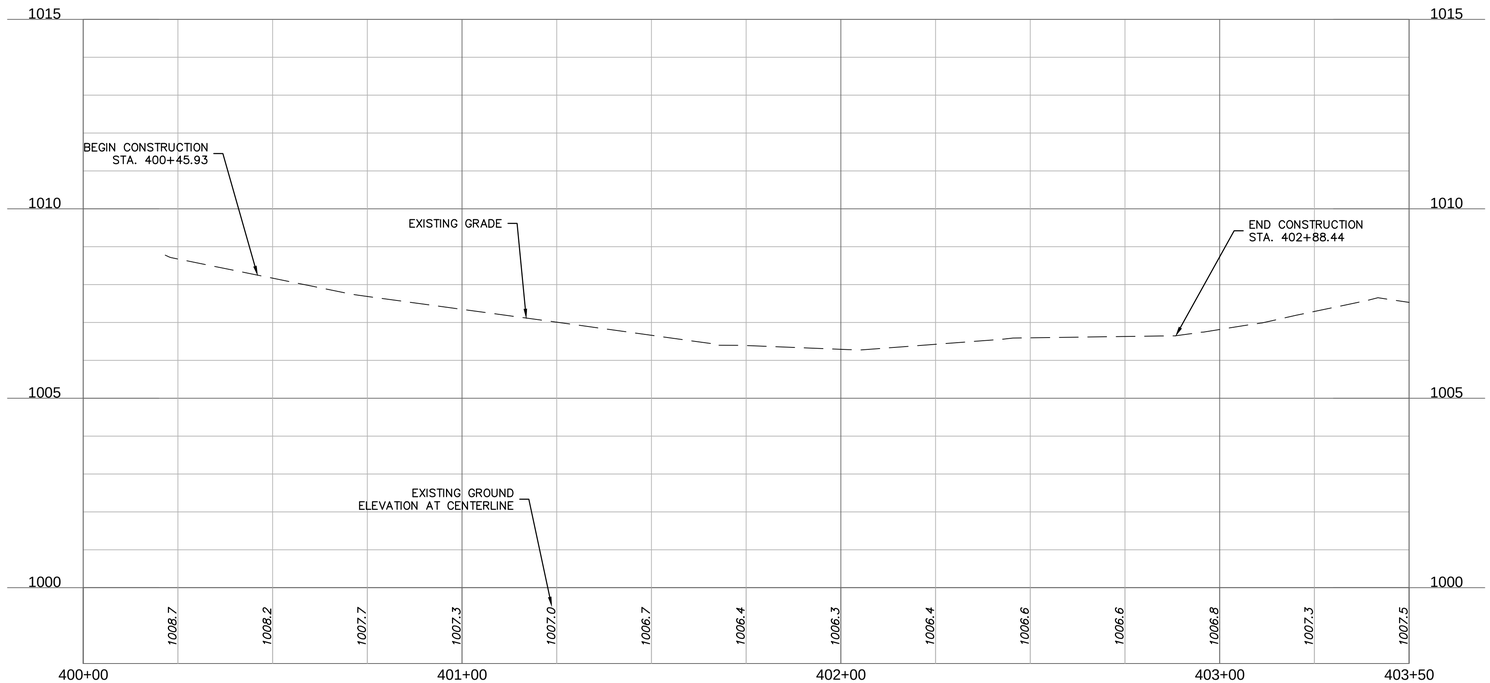
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| checked by: | MJM |
| approved by: | JWP |
| QA/QC by: | JWP |
| project no.: | 023-00893 |
| drawing no.: | T_RPP02_02300893 |
| date: | 4.19.2026 |

SHEET
42 of 162

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## 10TH STREET (400+00 - 403+50)




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4/27/2026

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|---|---|---|---|

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ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #2

MAIN STREET STREETSCAPES
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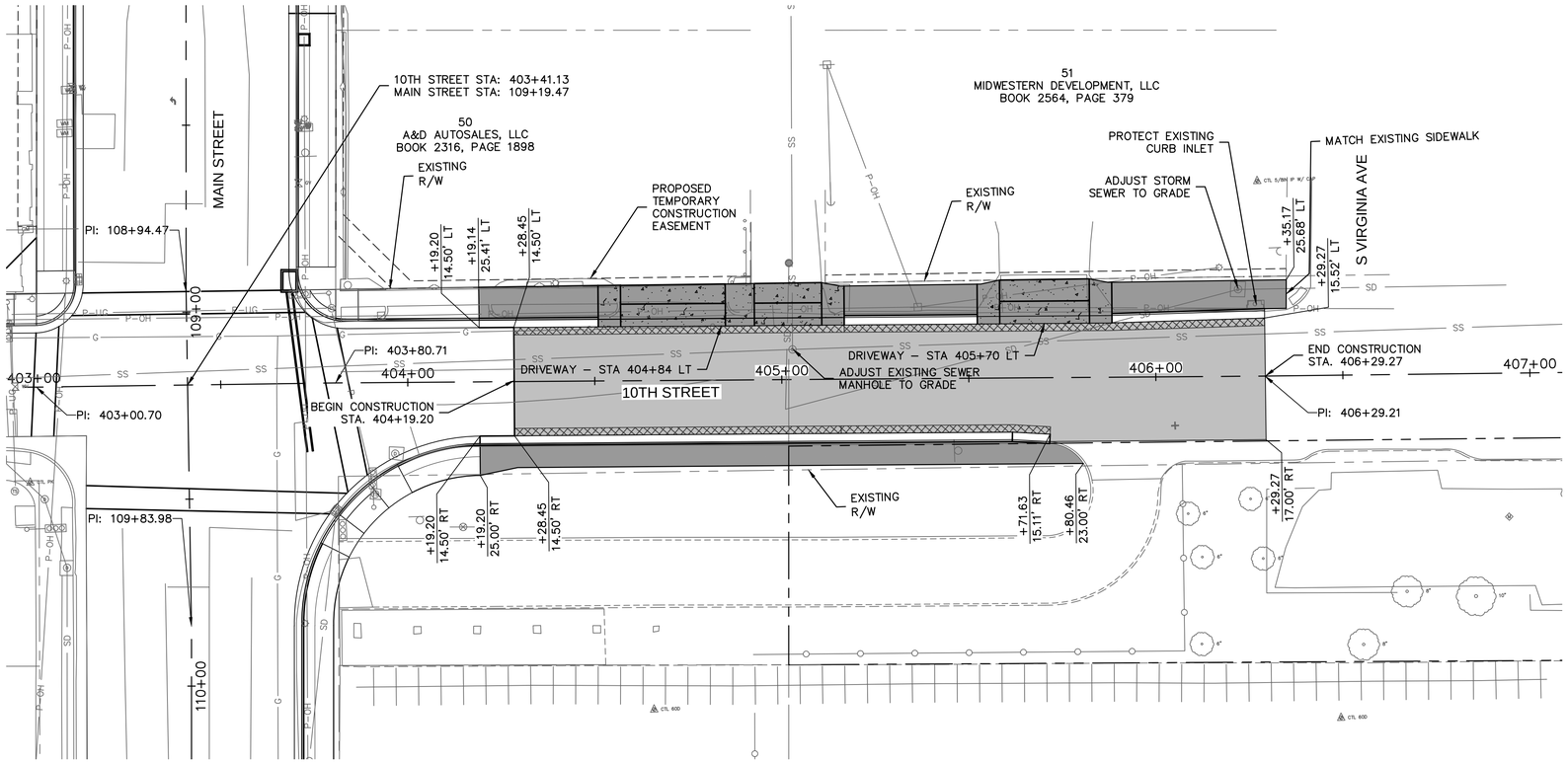
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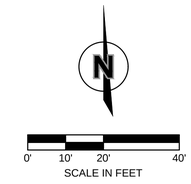
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drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_RPP02_02300893
date: 4.19.2026

SHEET
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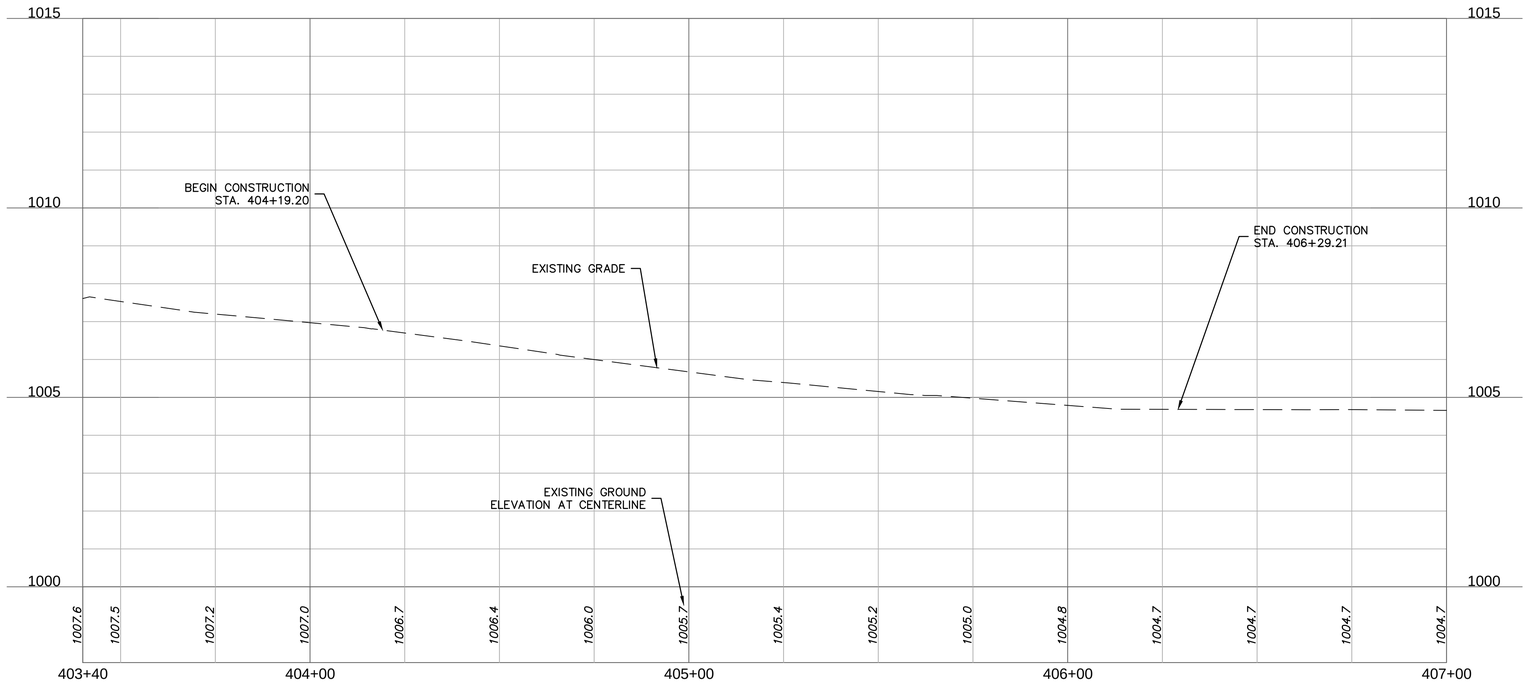


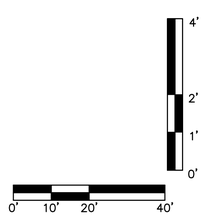




LEGEND

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- CONCRETE DRIVE
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- SIDEWALK LANDING
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- 24" WIDE DETECTABLE WARNING DOME SURFACE

## 10TH STREET (403+40 - 407+00)




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4/27/2026

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REVISIONS

ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #2

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

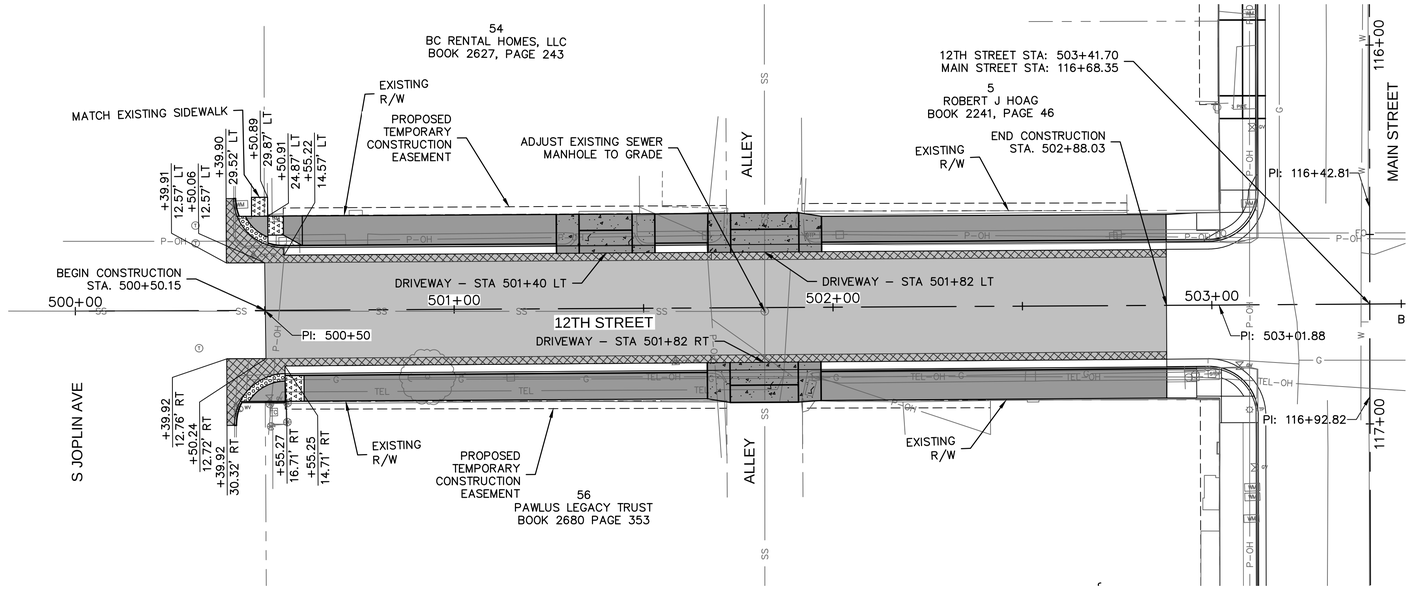
JOPLIN, MO

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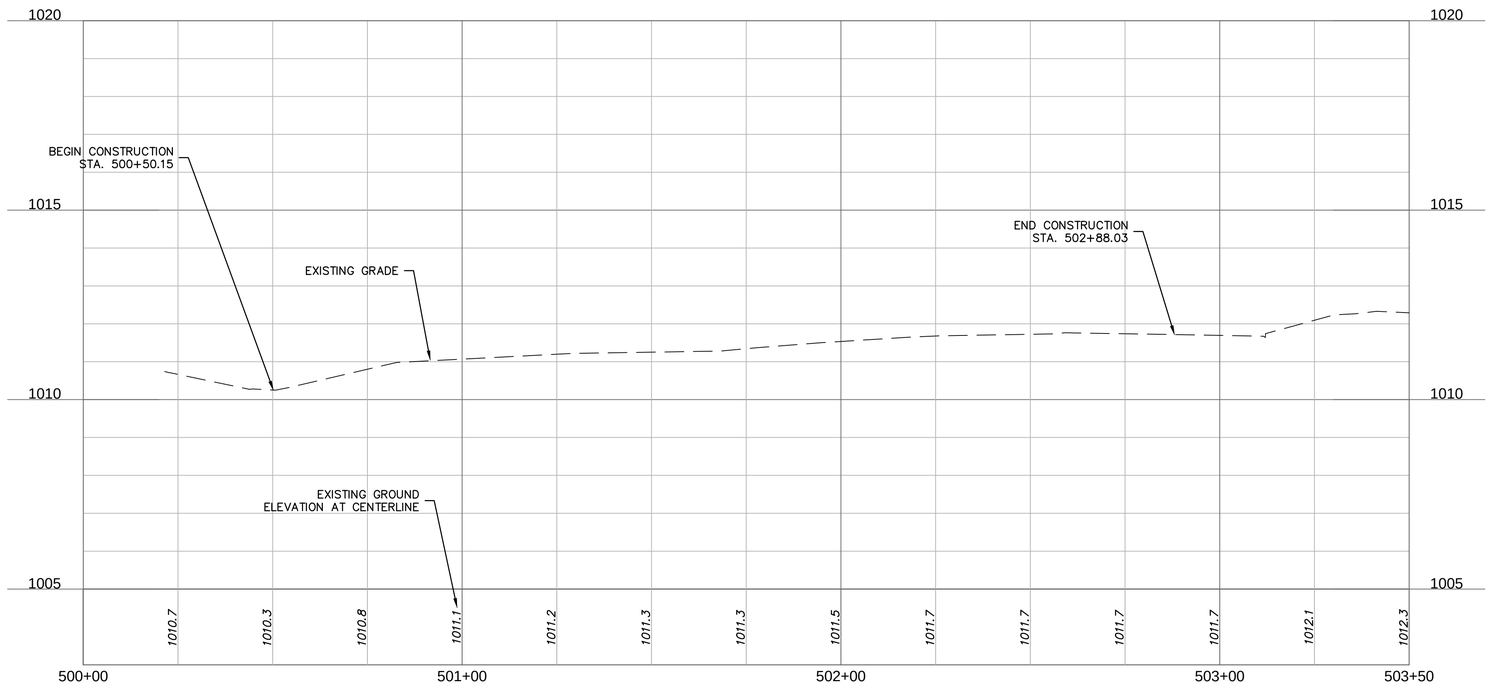
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checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_RPP02_02300893
date: 4.19.2026

SHEET
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## 12TH STREET (500+00 - 503+50)




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ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #3

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

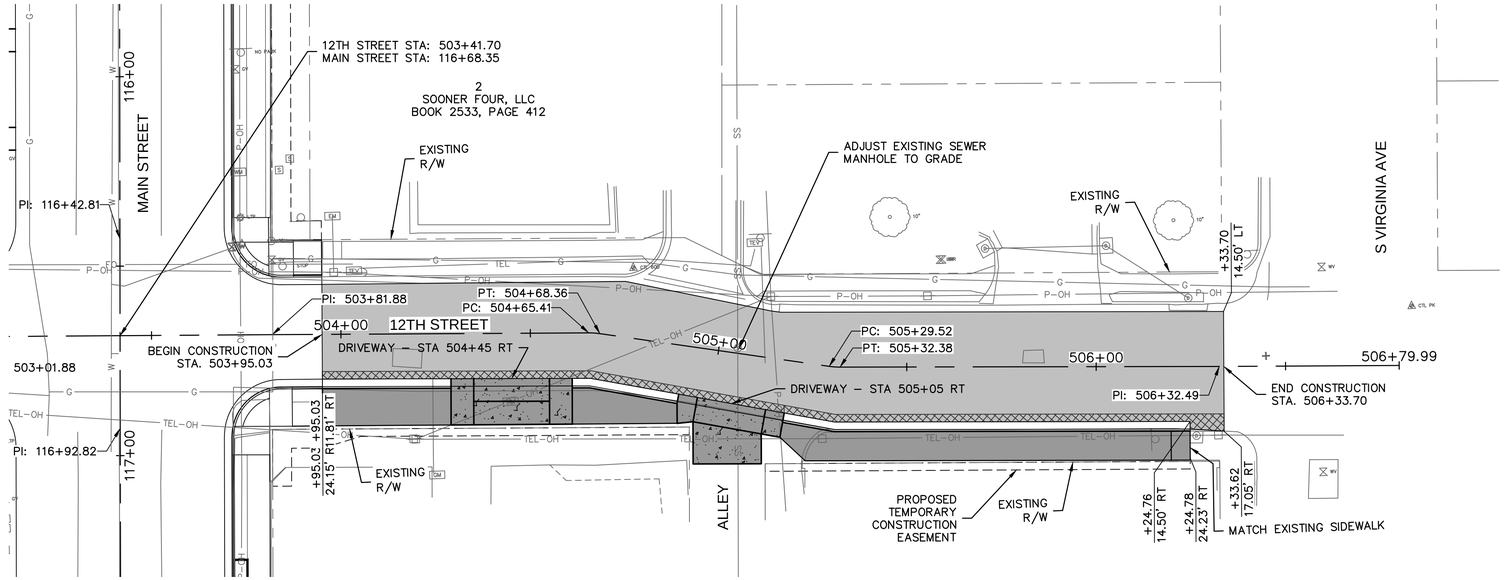
JOPLIN, MO

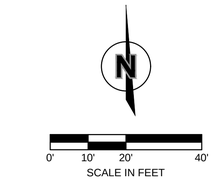
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drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_RPP02_02300893
date: 4.19.2026

SHEET
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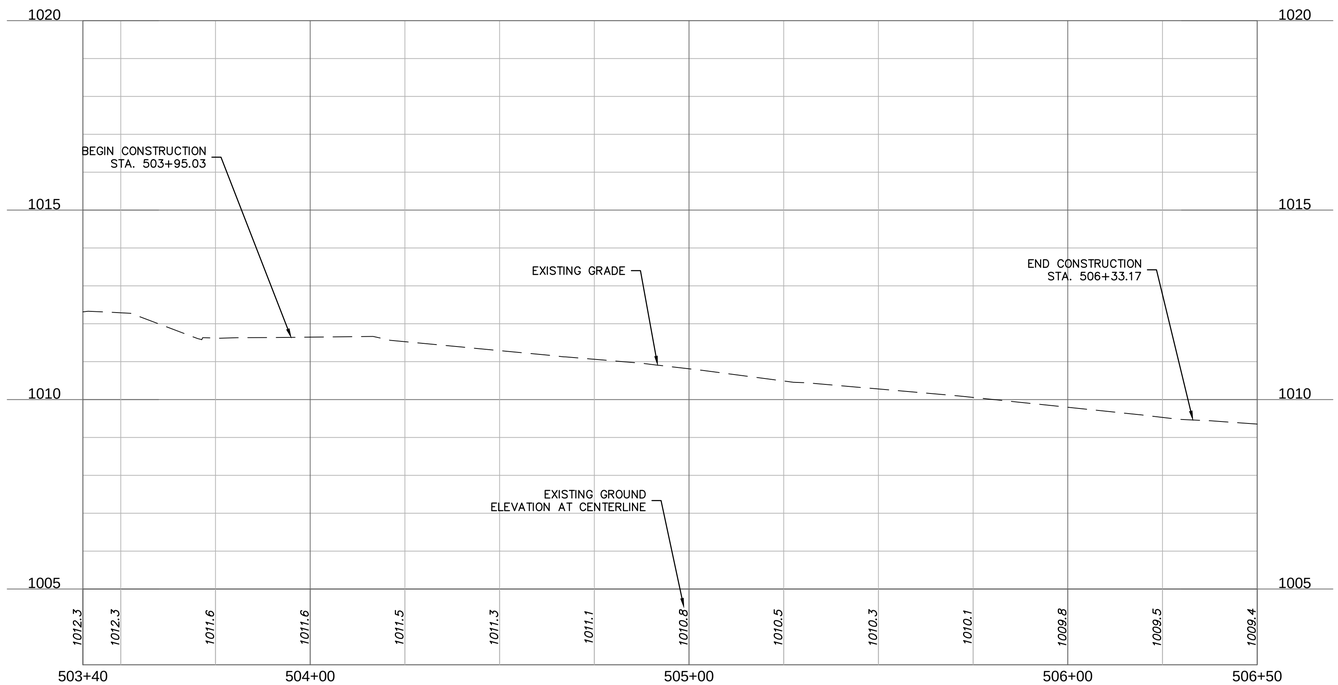


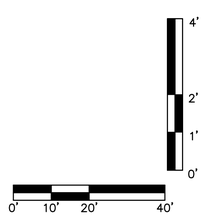




LEGEND

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- SIDEWALK RAMP
- SIDEWALK LANDING
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- 24" WIDE DETECTABLE WARNING DOME SURFACE

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4/27/2026
PROFESSIONAL ENGINEER

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|---|---|---|---|

REVISIONS

ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #3

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

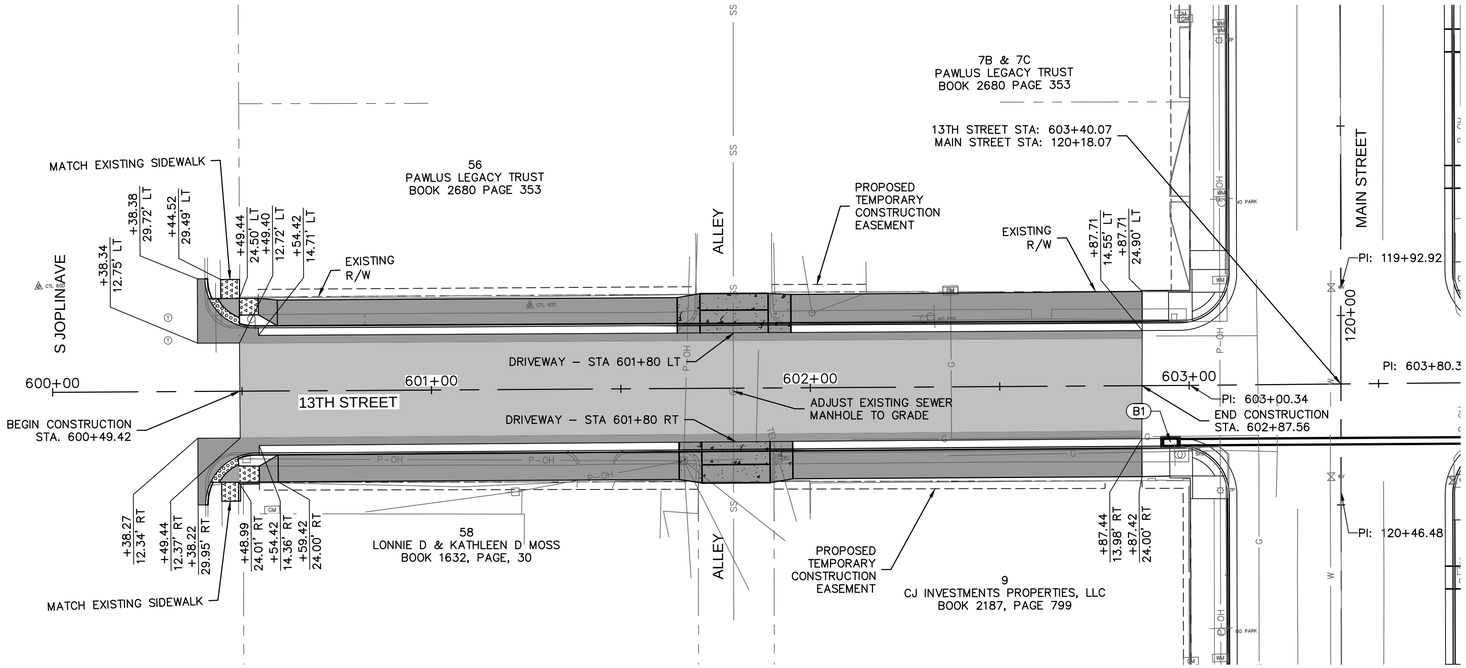
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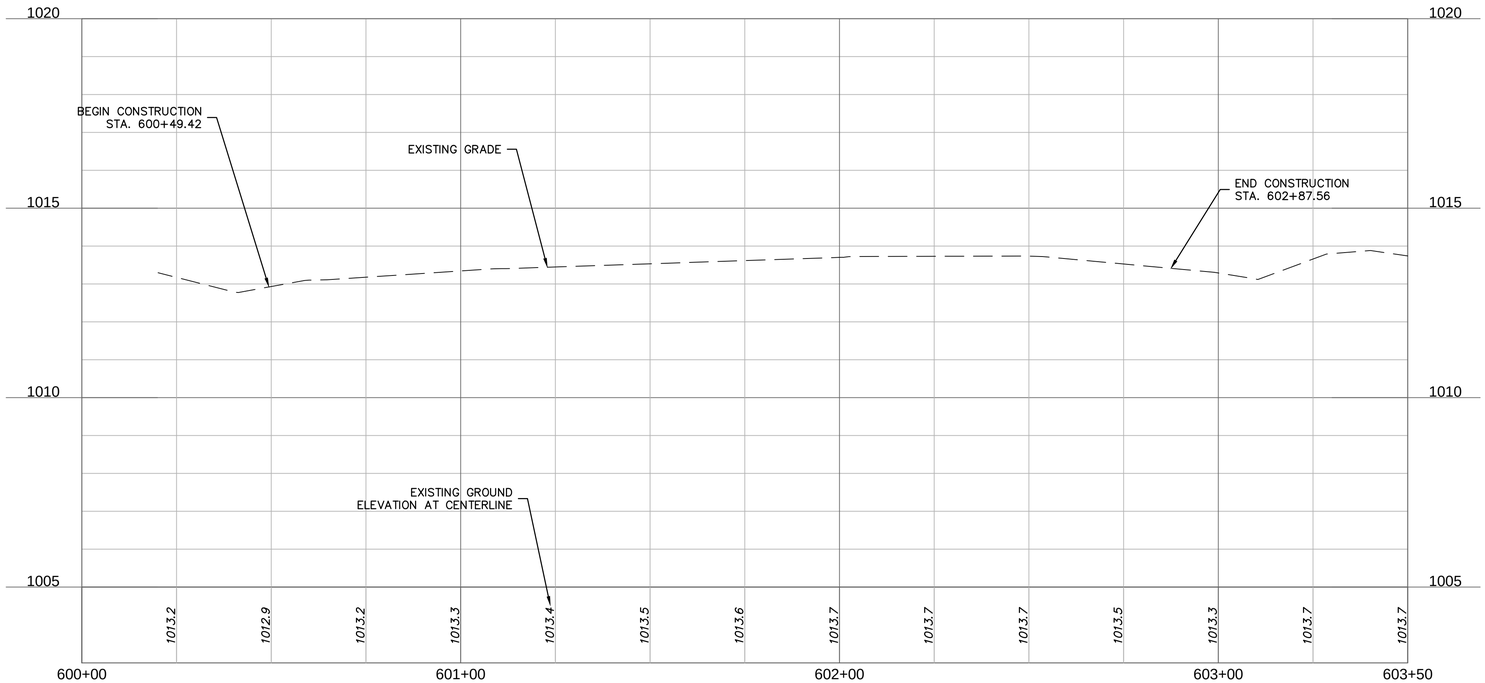
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checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_RPP02_02300893
date: 4.19.2026

SHEET
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V_XBNDY_02300893




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PROFESSIONAL ENGINEER

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REVISIONS

ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #4

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

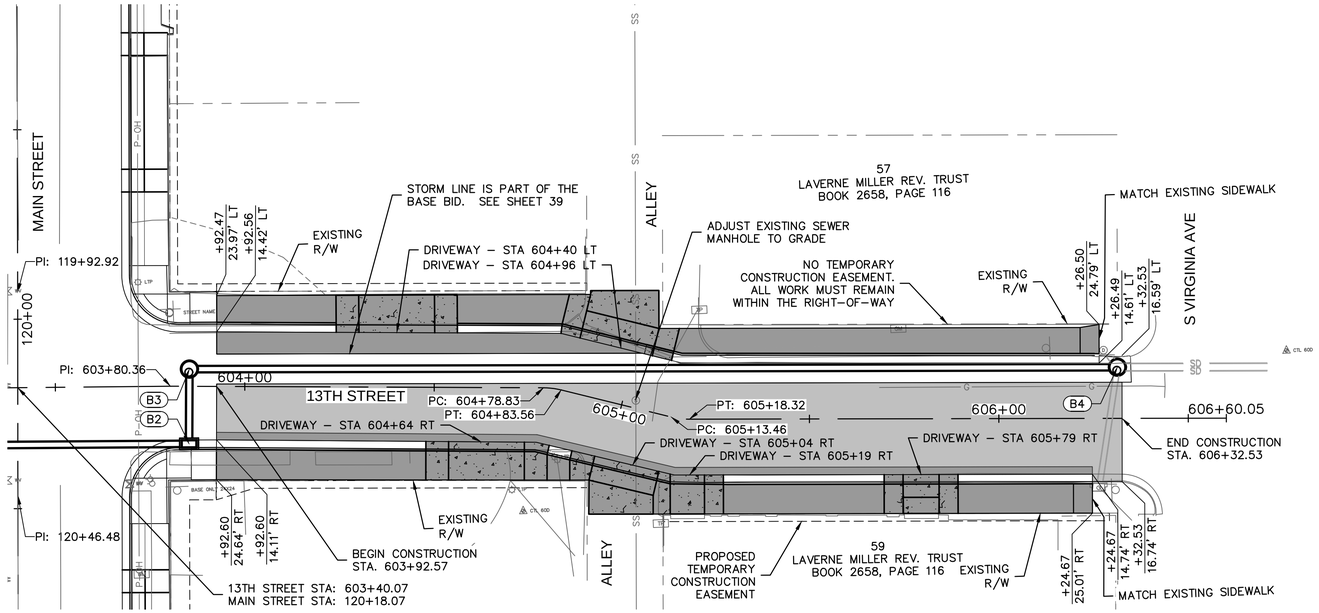
JOPLIN, MO

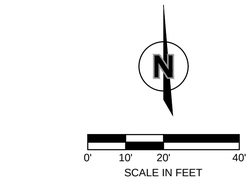
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drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_RPP02_02300893
date: 4.19.2026

SHEET
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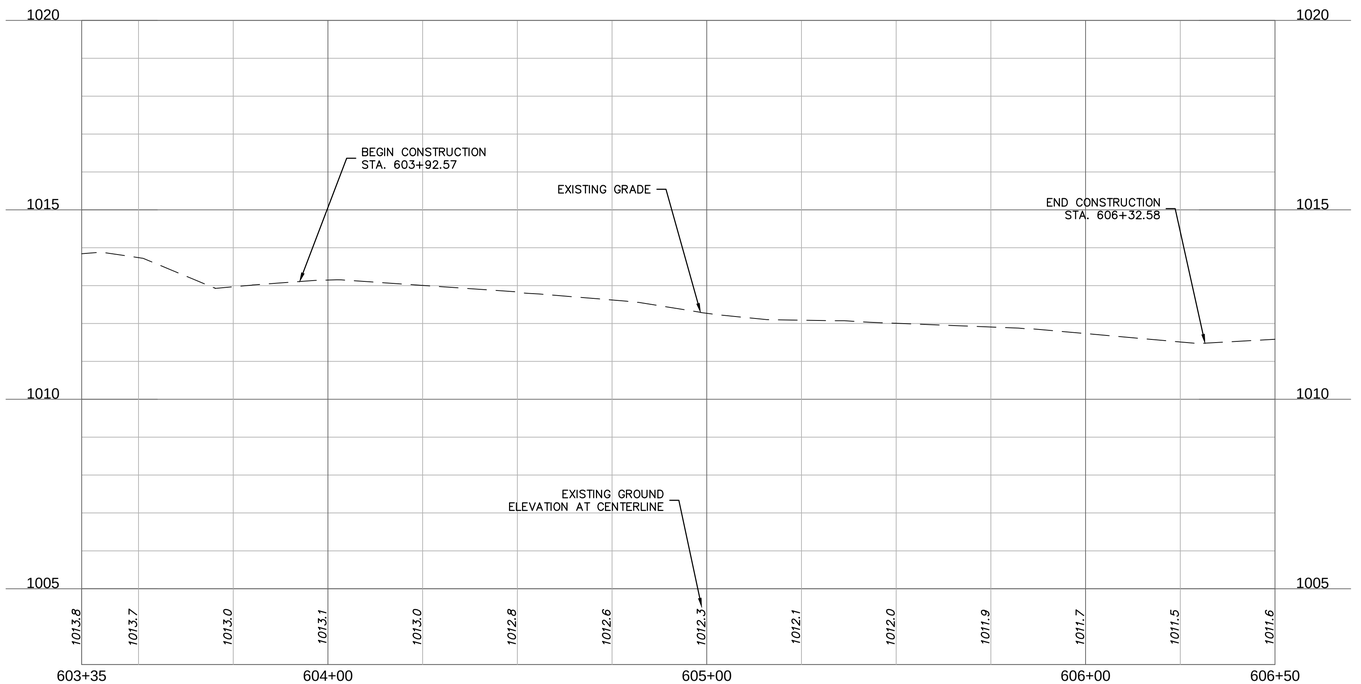


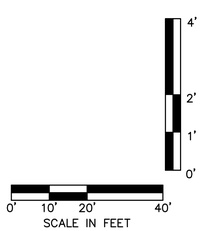




LEGEND

- FULL DEPTH PVMT REPAIR
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- CONCRETE DRIVE
- SIDEWALK RAMP
- SIDEWALK LANDING
- CONCRETE SIDEWALK
- 24" WIDE DETECTABLE WARNING DOME SURFACE

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ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #4

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

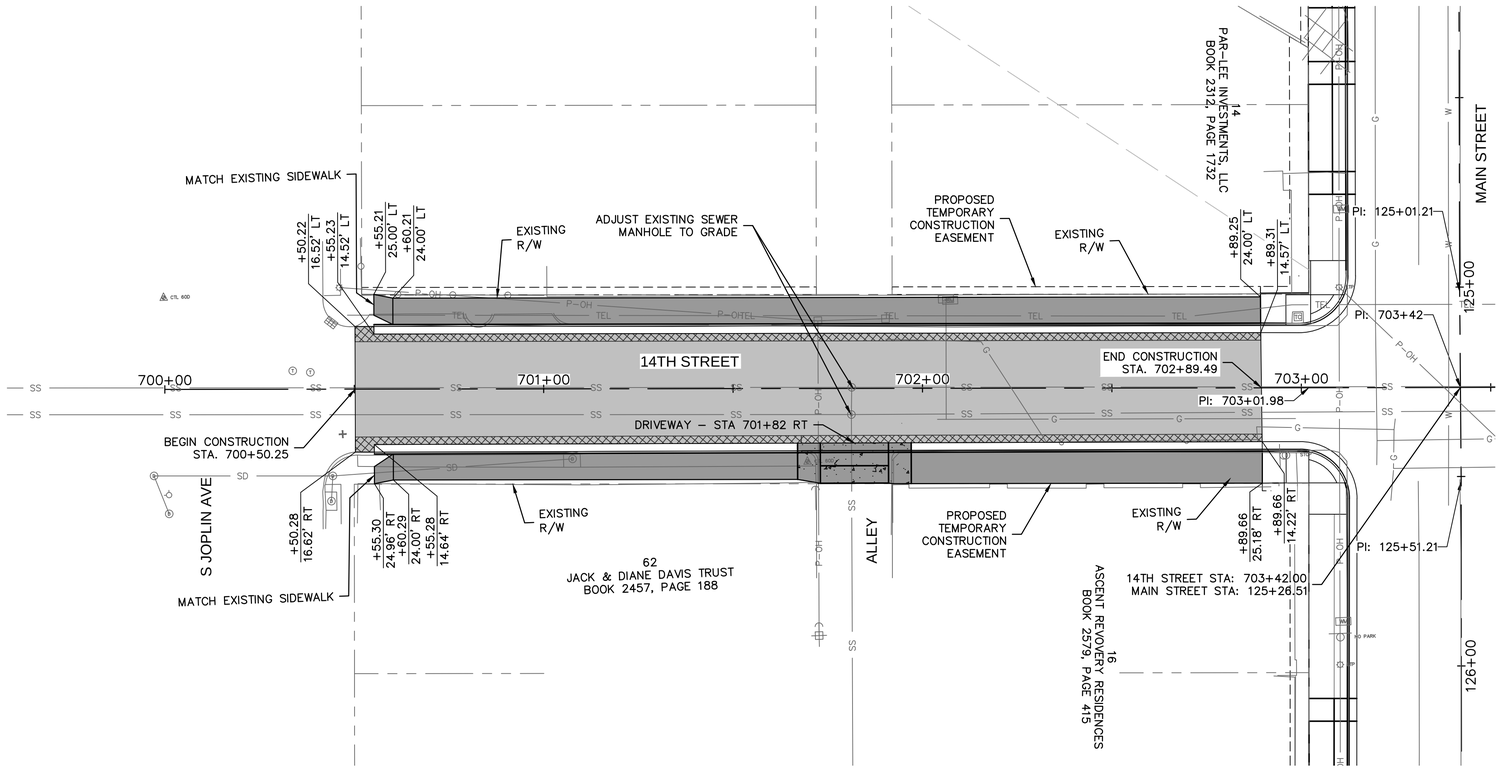
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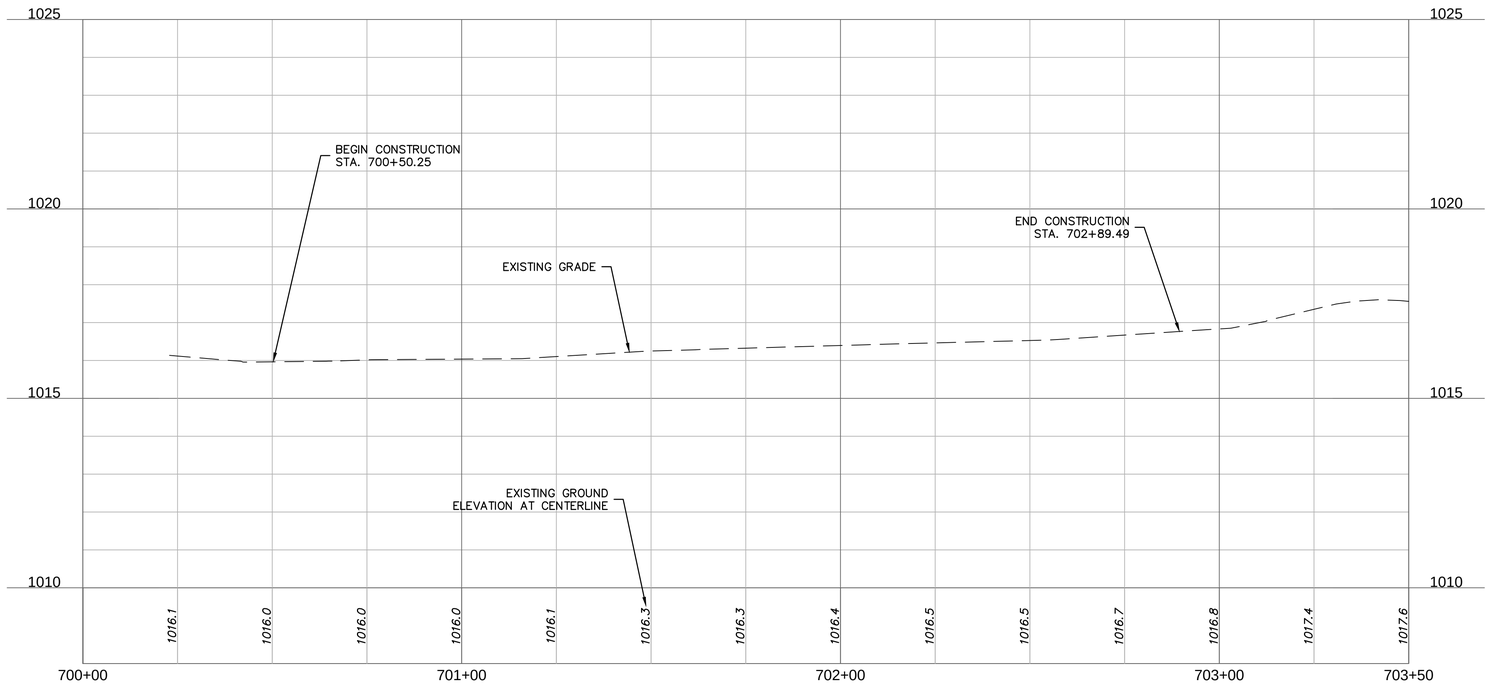
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REVISIONS

ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #5

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

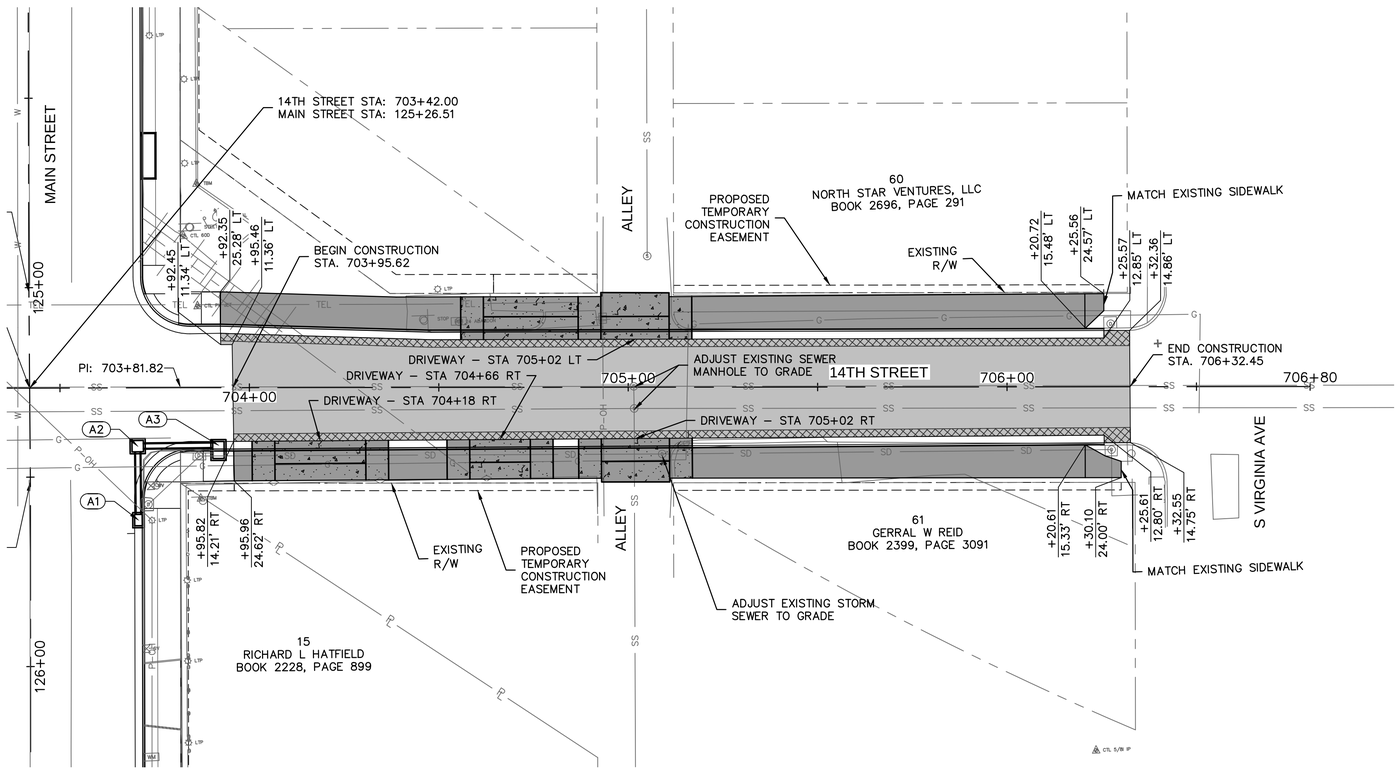
JOPLIN, MO

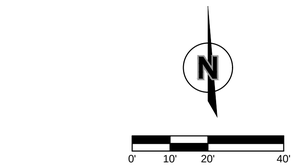
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| drawn by: | CTK/MJM |
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| drawing no.: | T_RPP02_02300893 |
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SHEET
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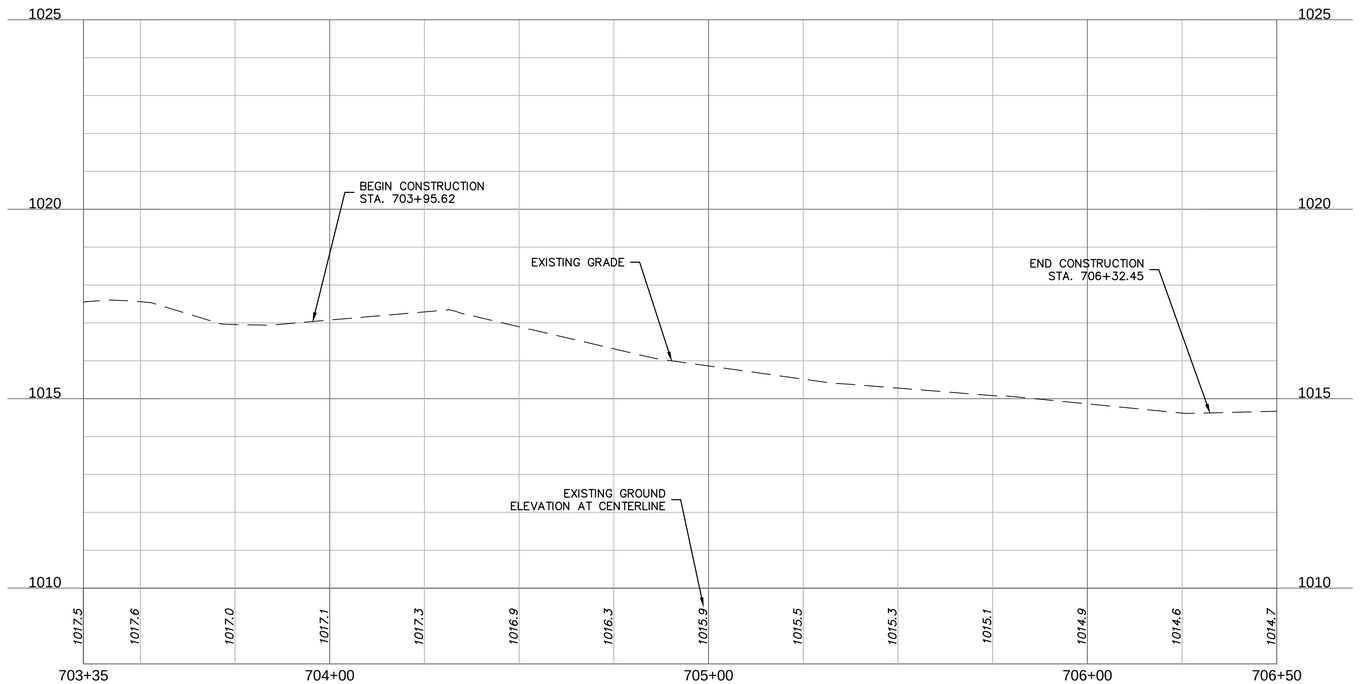


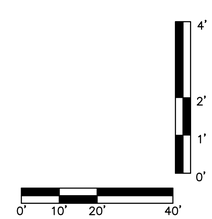




LEGEND

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## 14TH STREET (703+35 - 706+50)







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4/27/2026
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REVISIONS

ROADWAY PLAN AND PROFILE
BID ALTERNATIVE #5

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

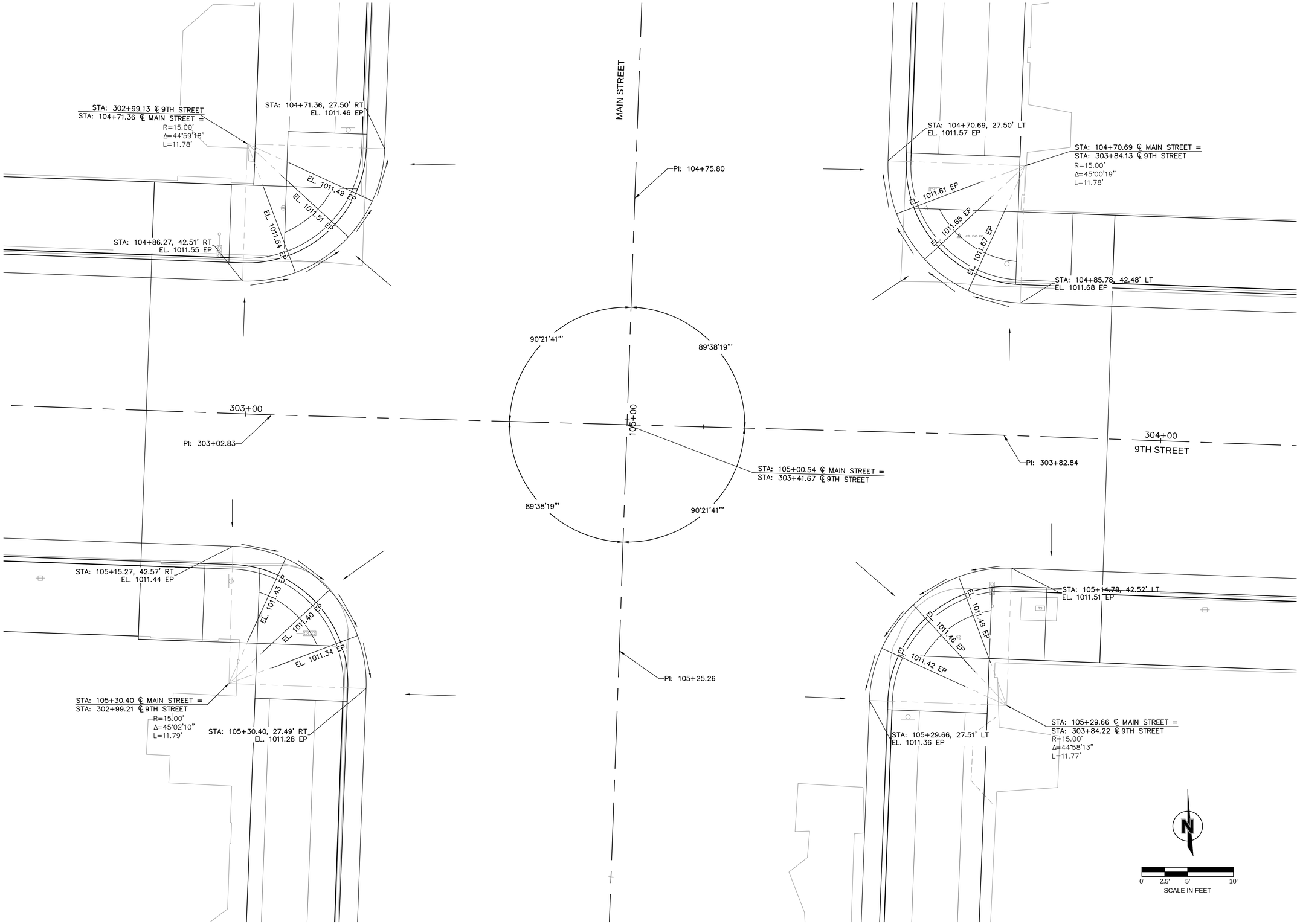
JOPLIN, MO

2025

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| drawn by: | CTK/MJM |
| checked by: | MJM |
| approved by: | JWP |
| QA/QC by: | JWP |
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| drawing no.: | T_RPP02_02300893 |
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SHEET
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USER: mmayfarth




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PROFESSIONAL ENGINEER

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INTERSECTION LAYOUT SHEETS

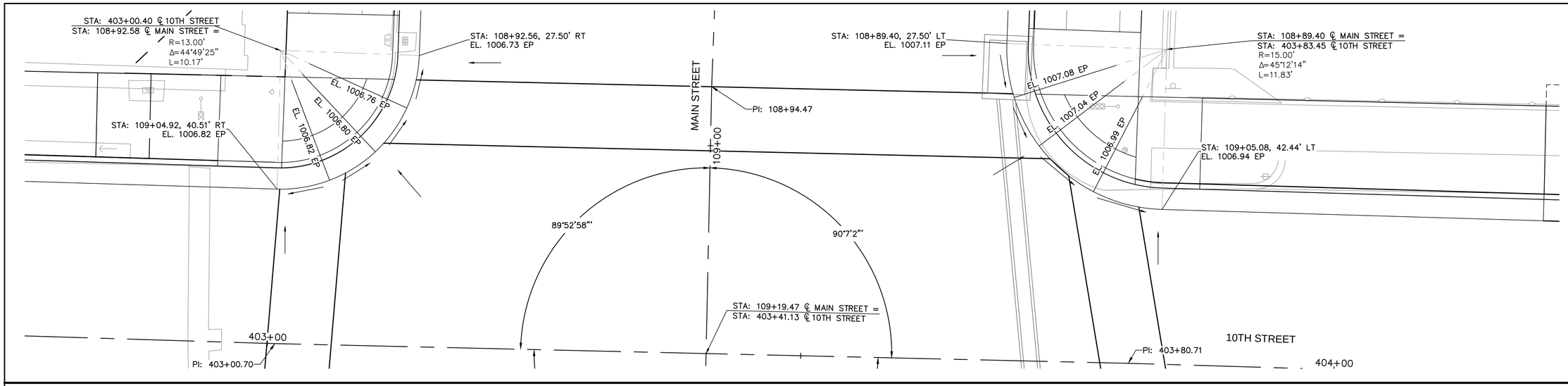
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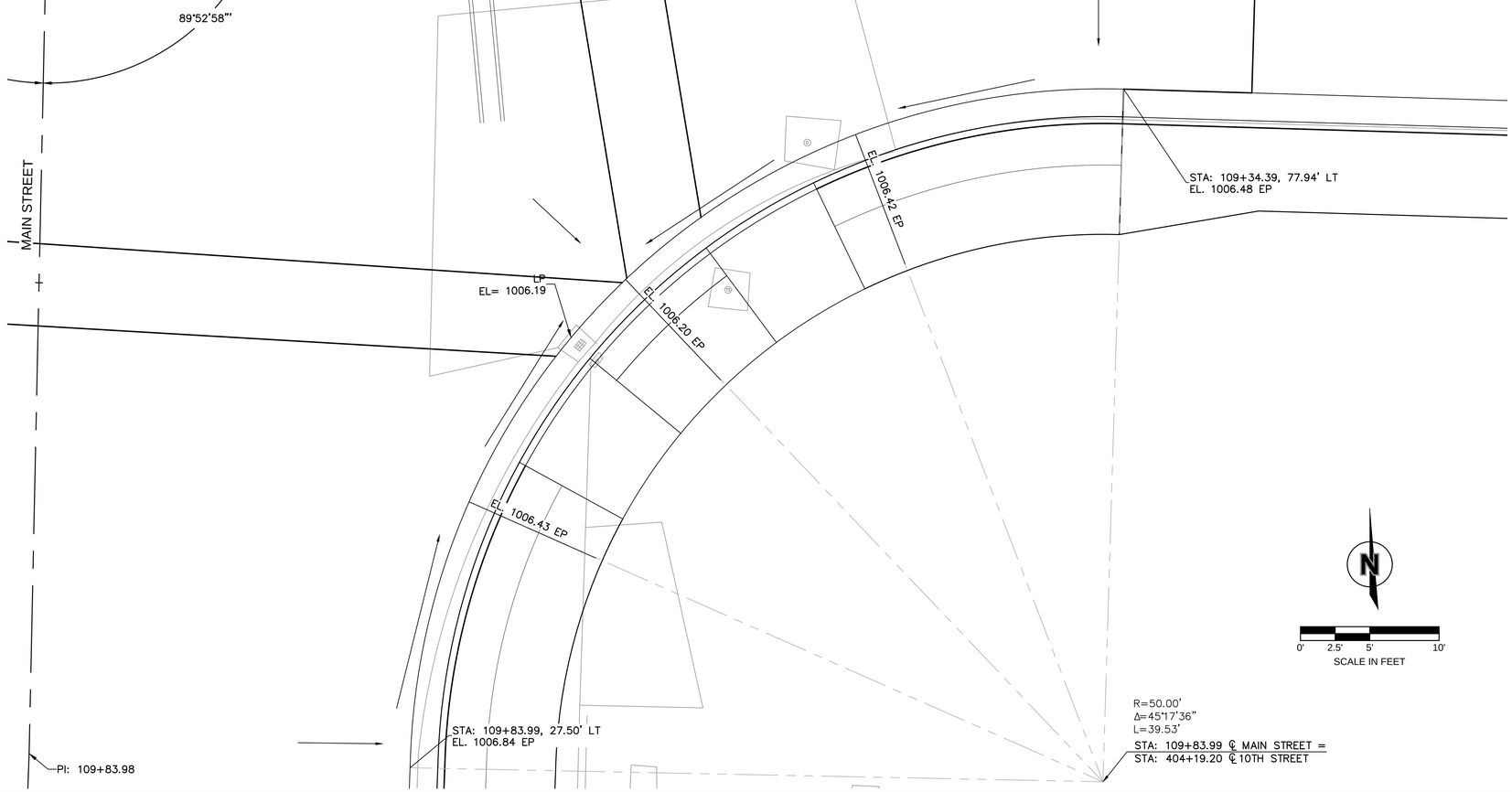
JOPLIN, MO

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checked by: MJM
approved by: JWP
QA/QC by: JWP
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drawing no.: T_INT01_02300893
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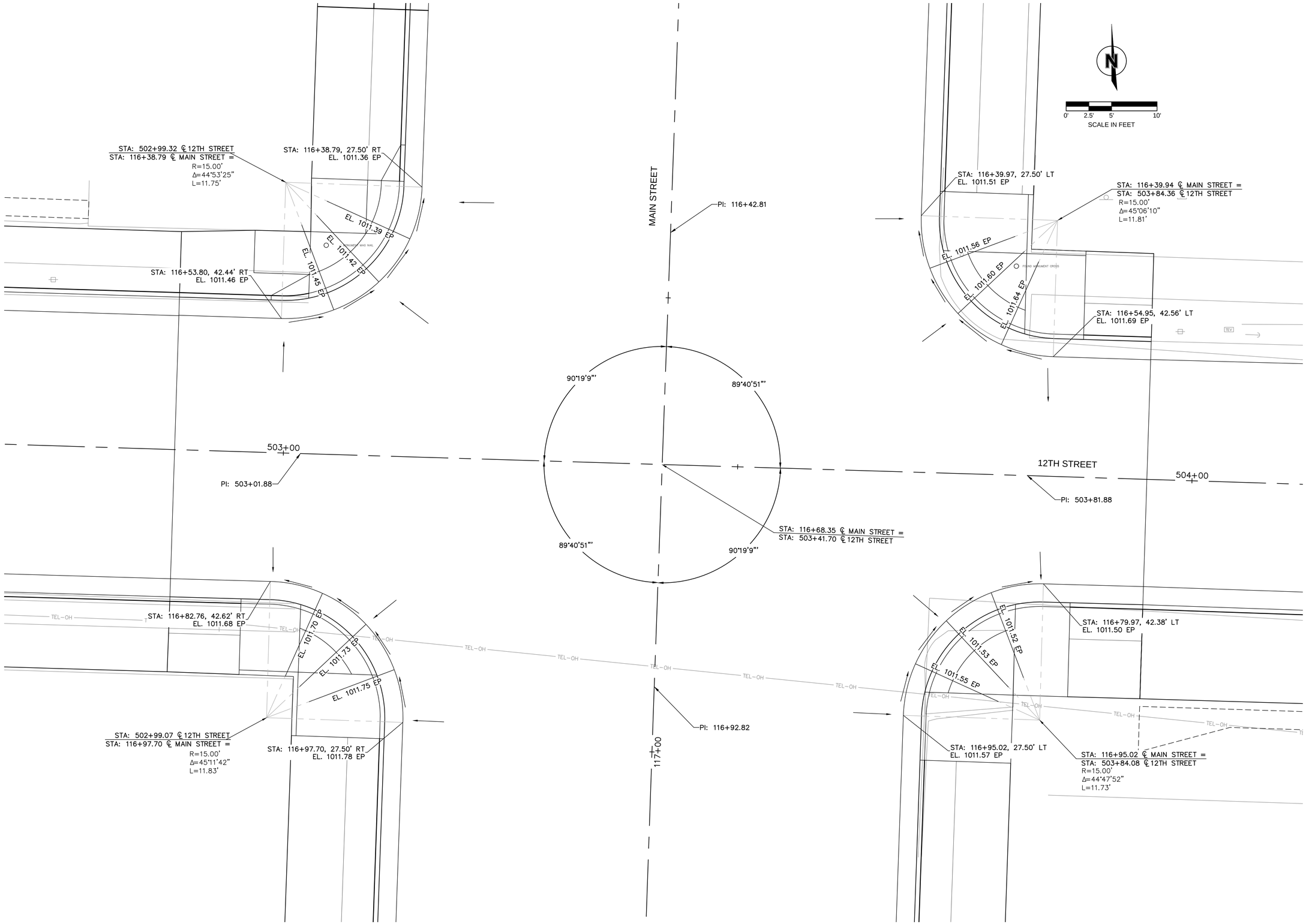
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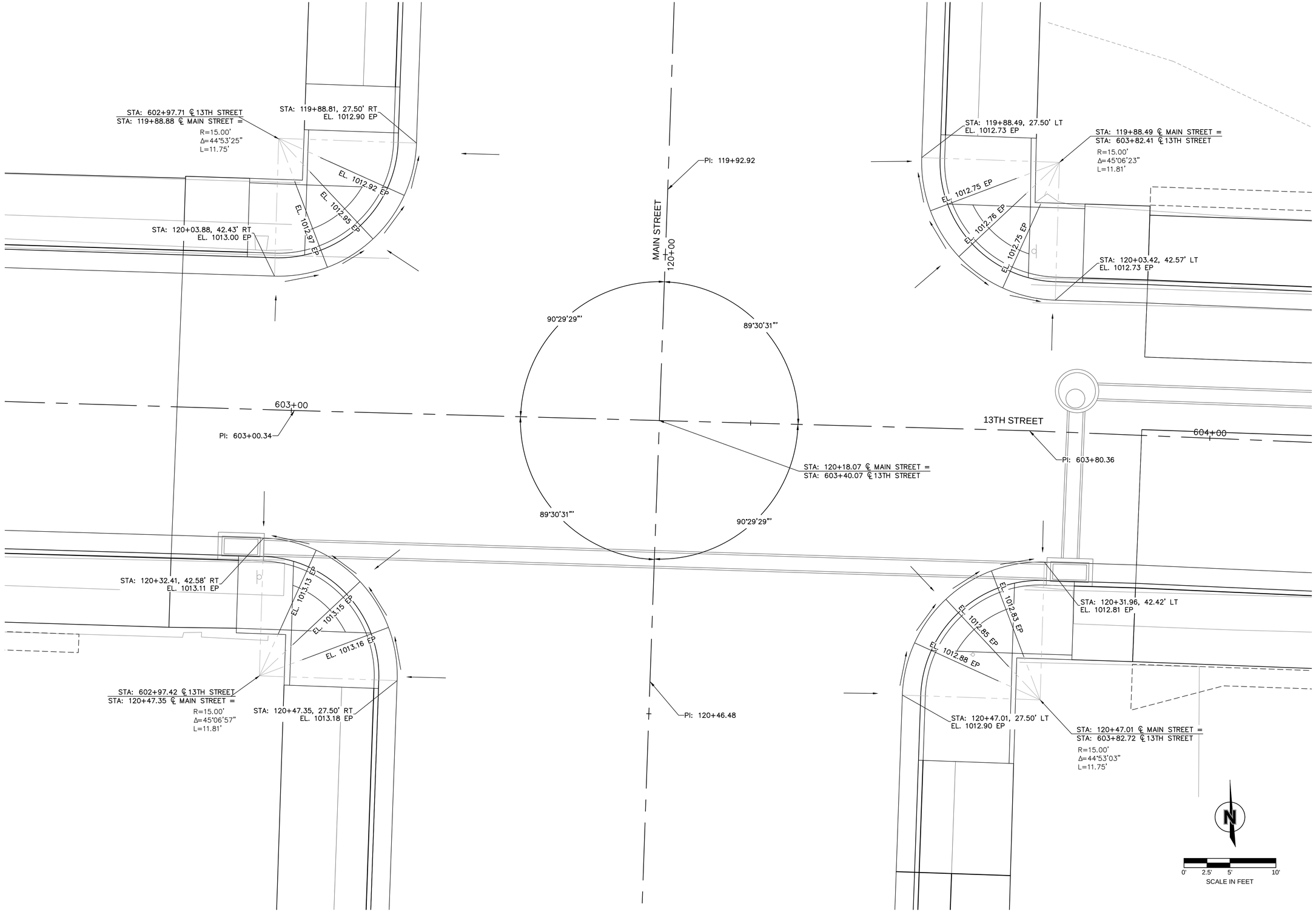
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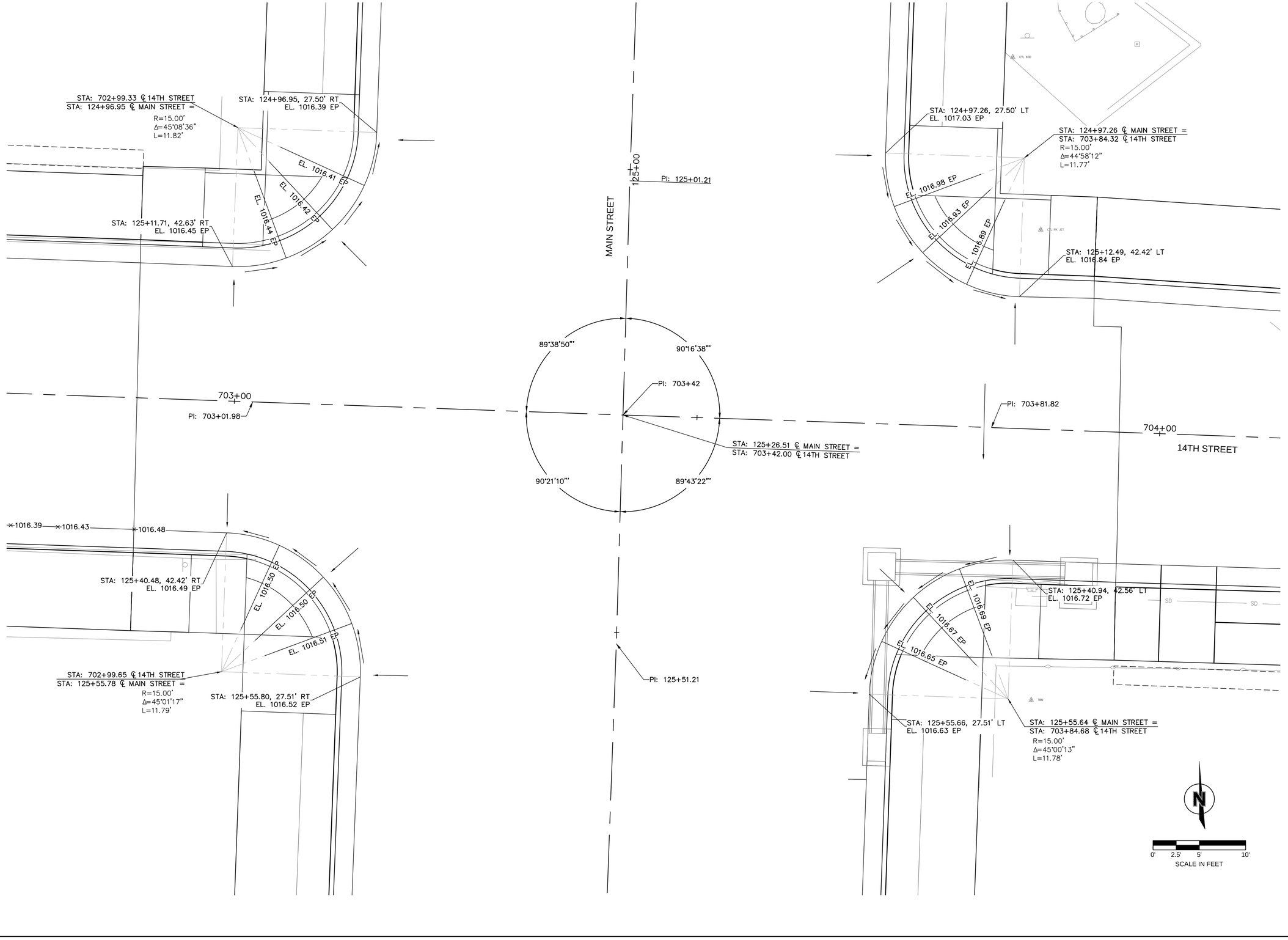
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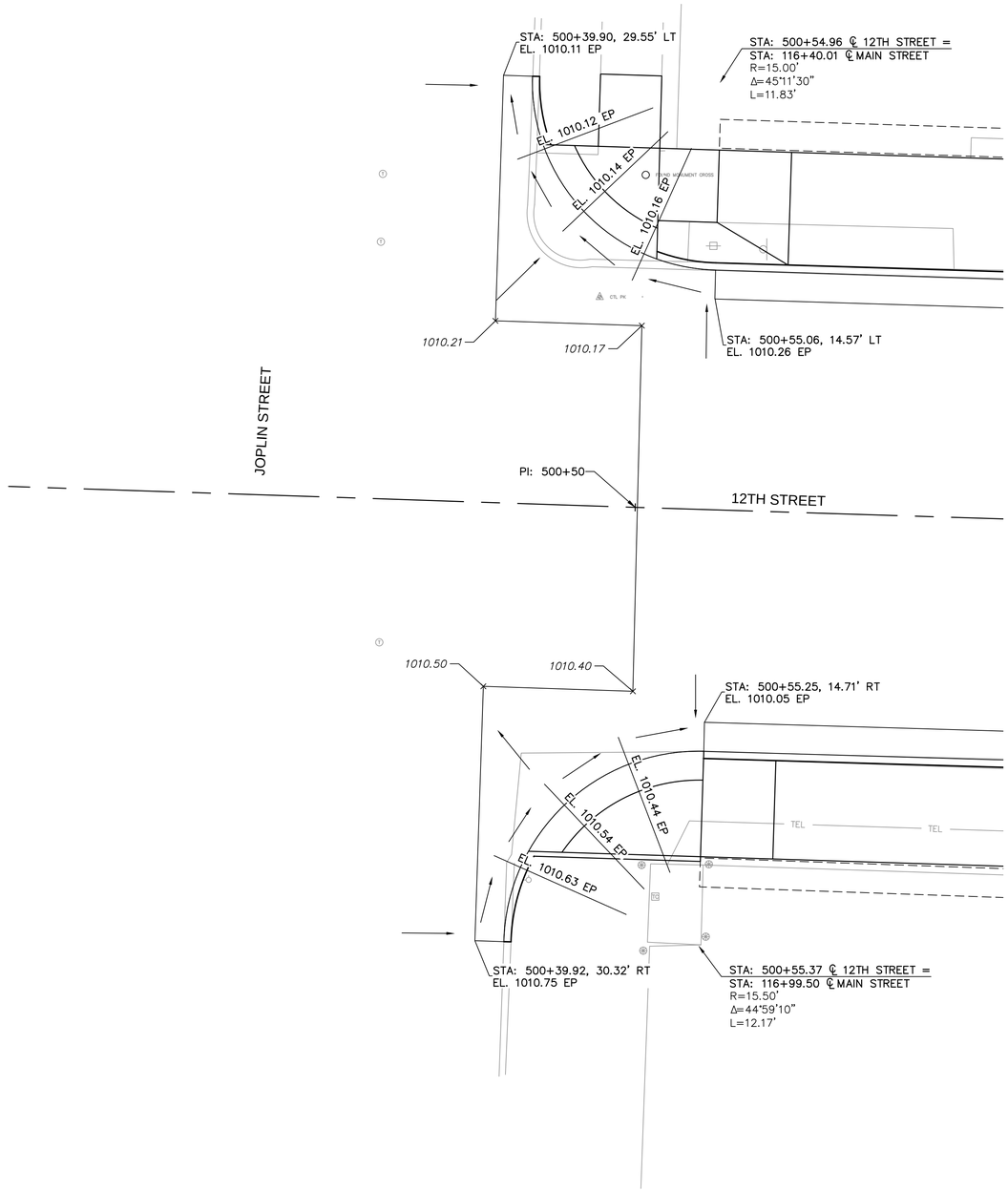
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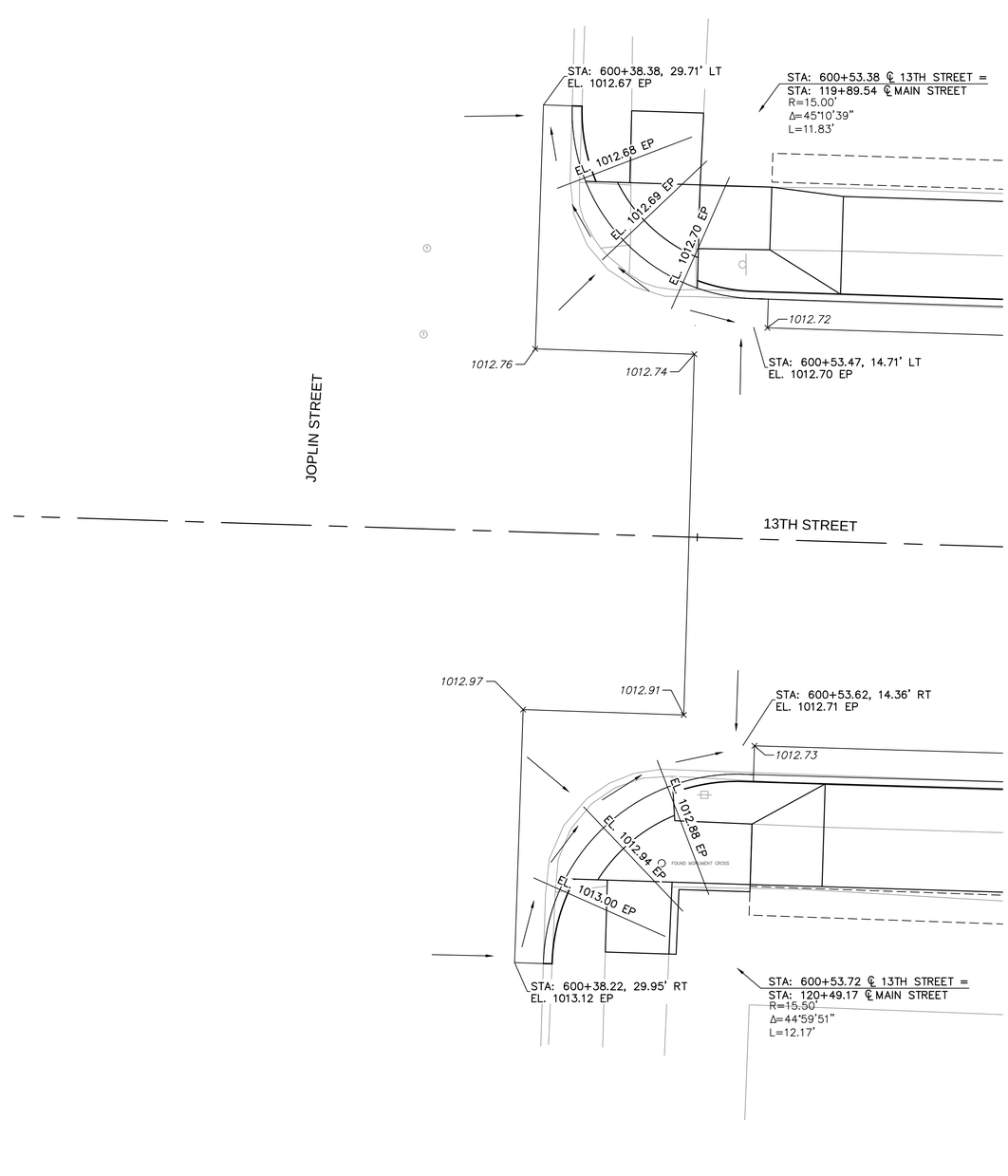
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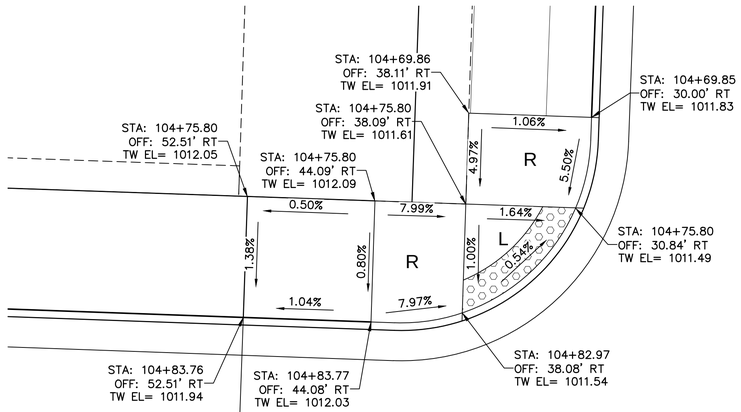
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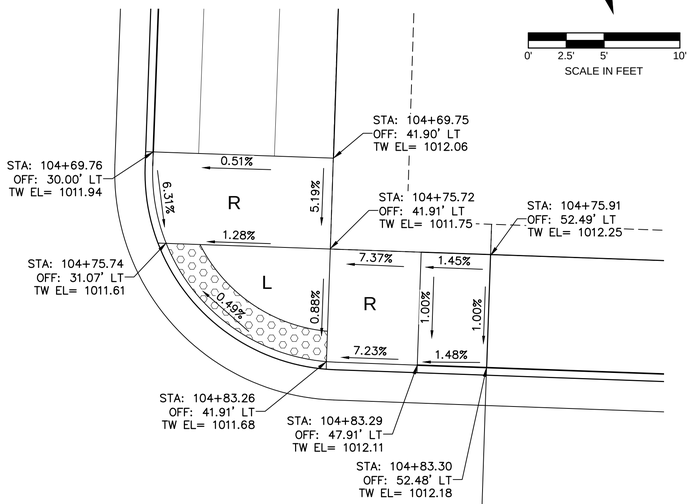
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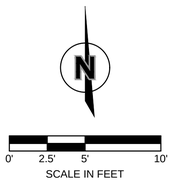
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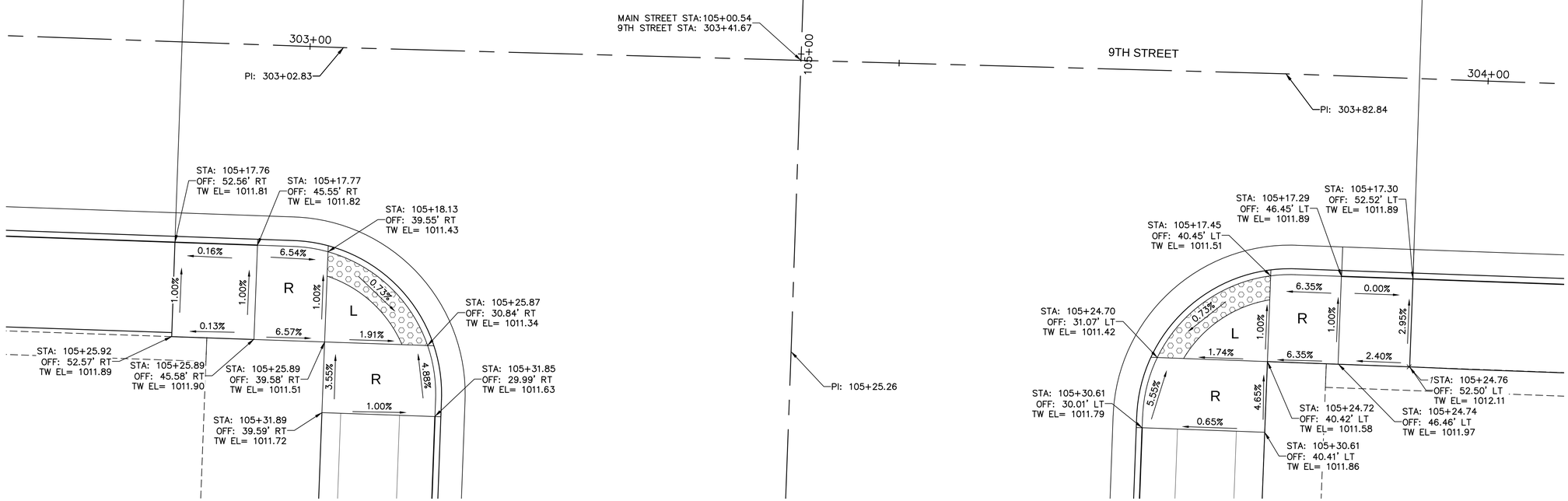
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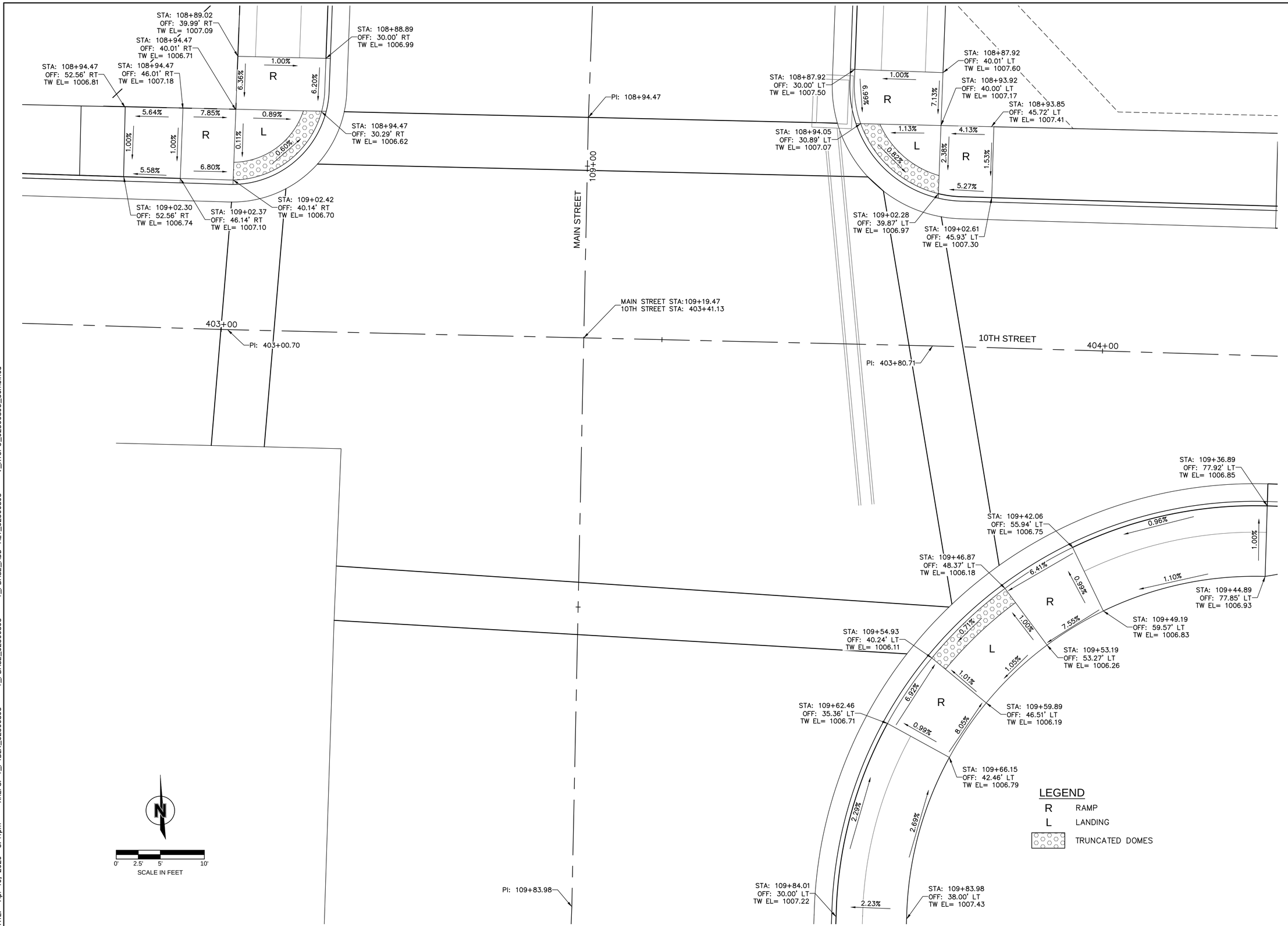
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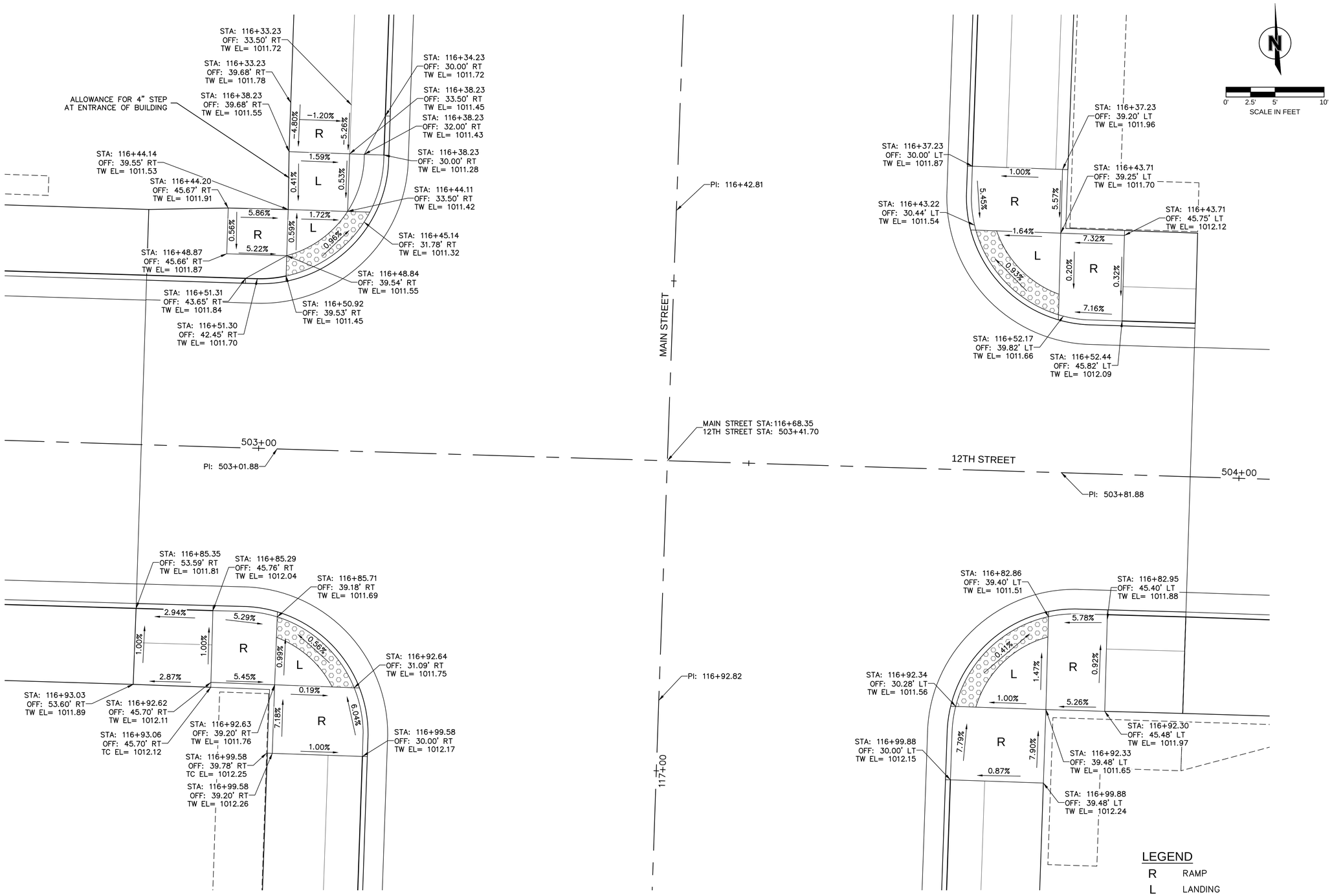
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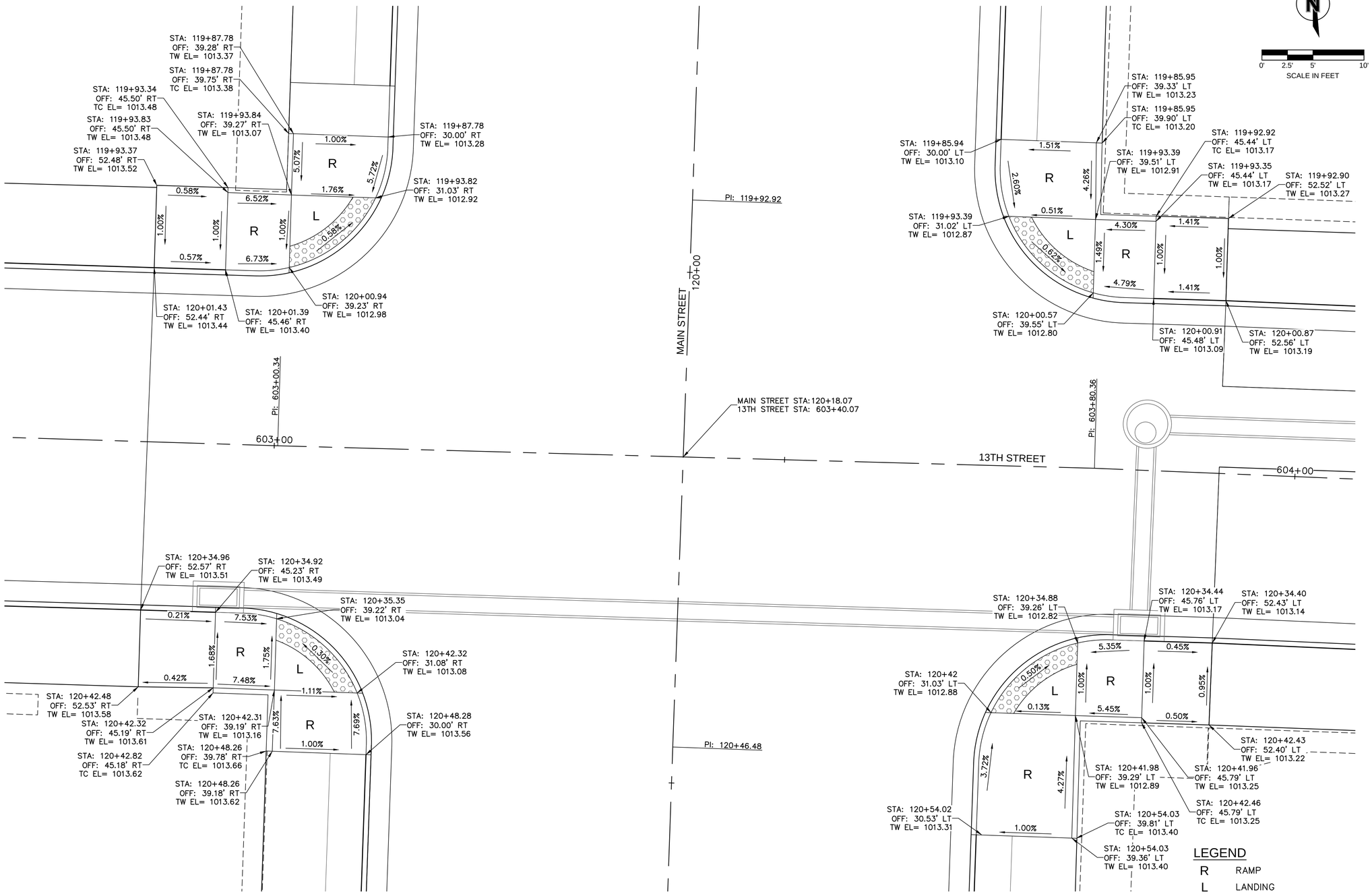
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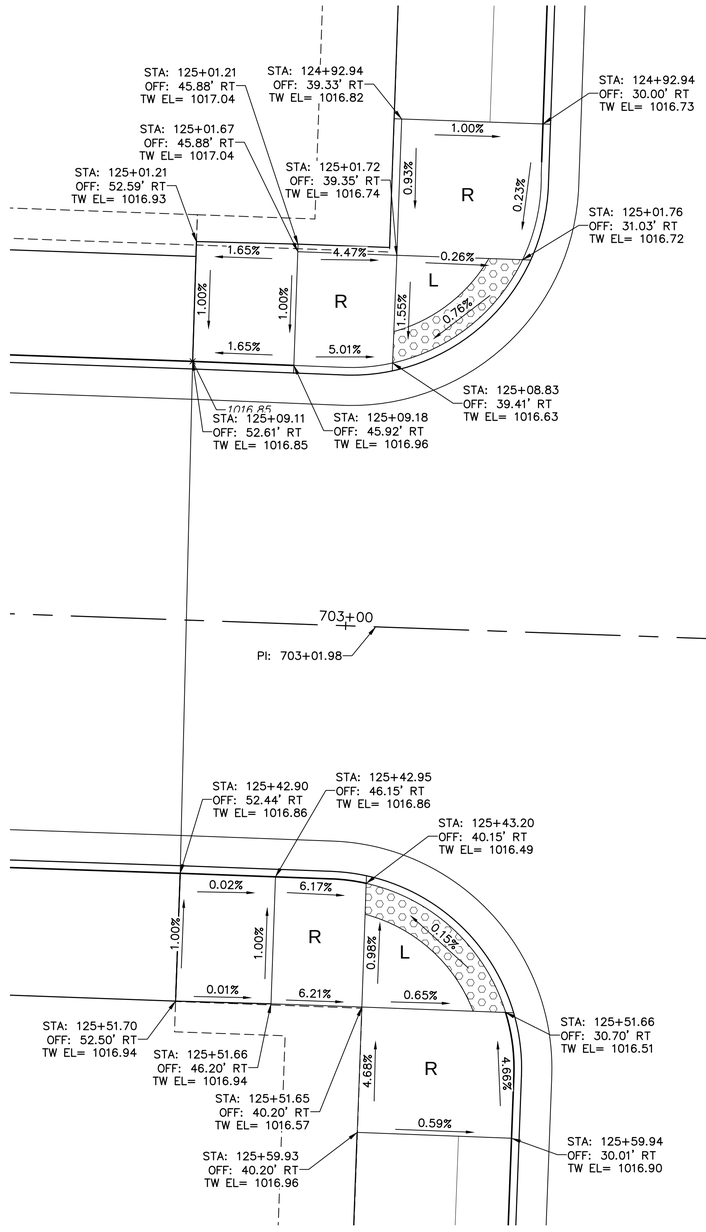
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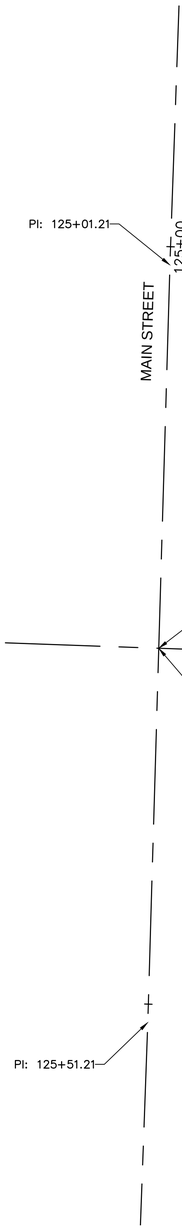
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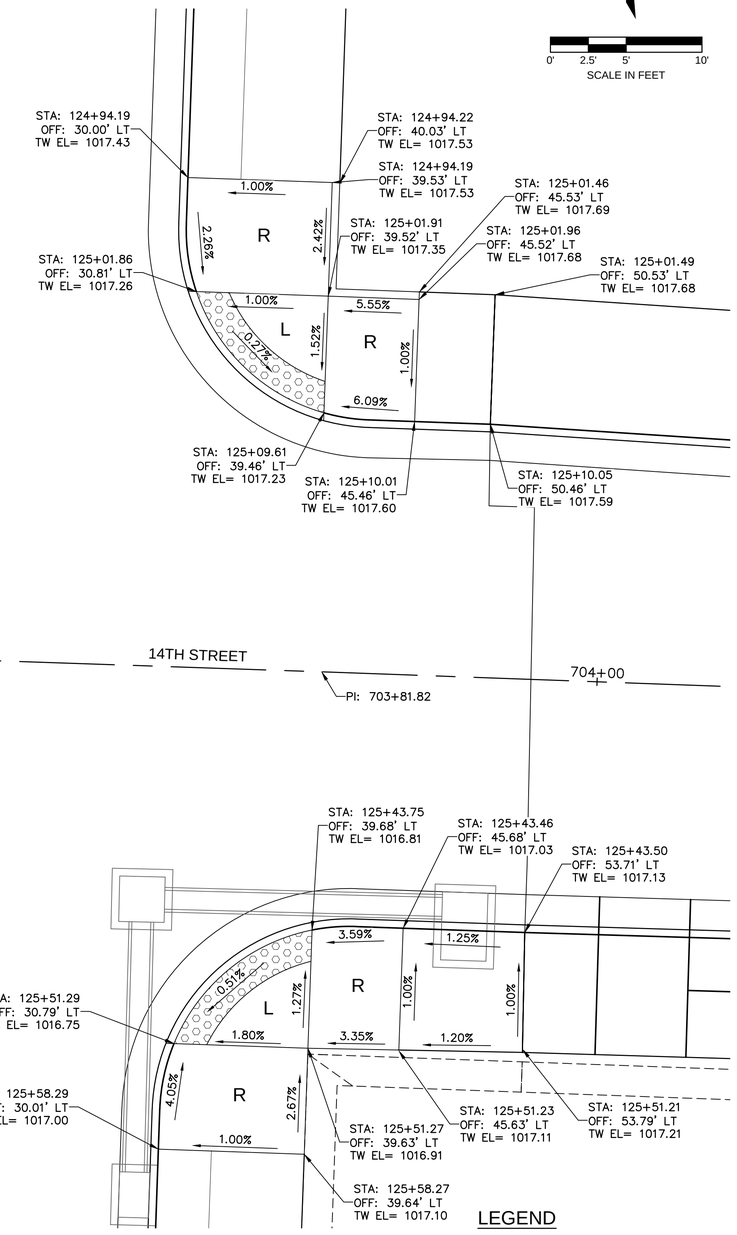
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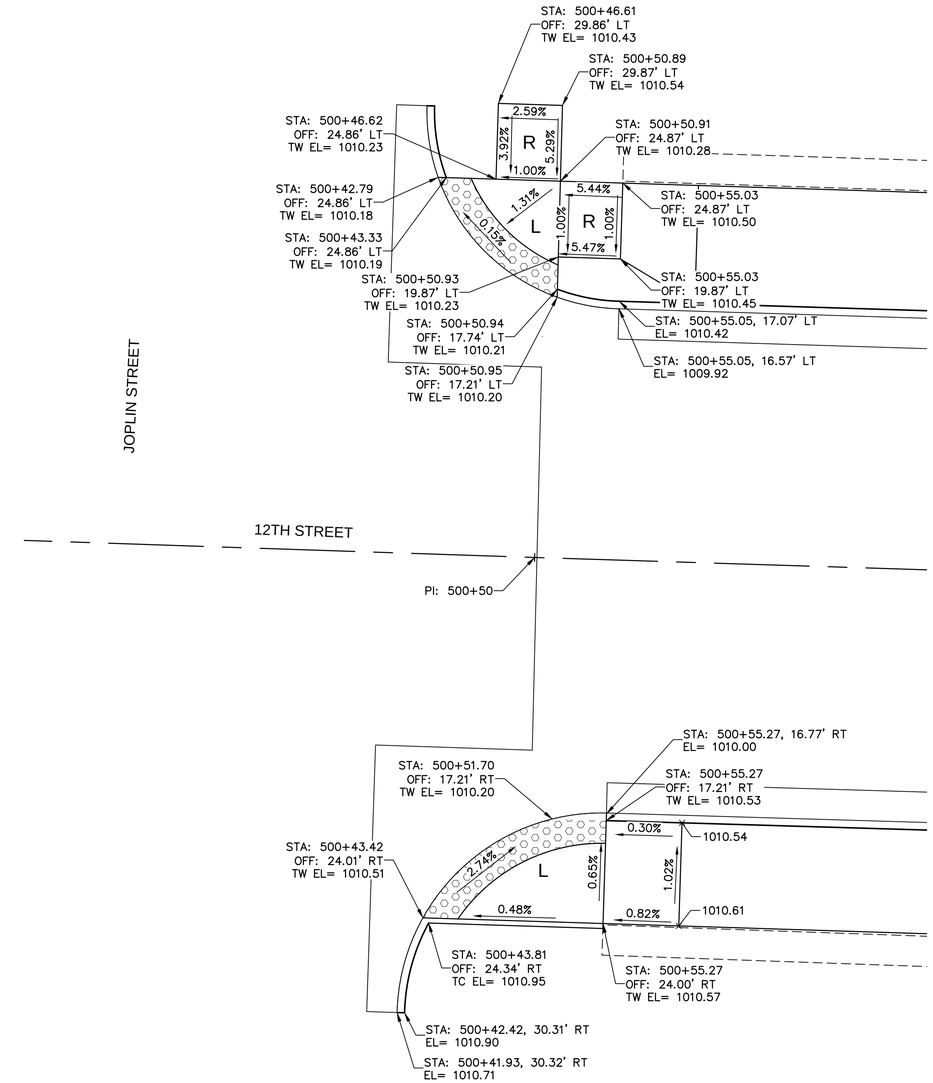
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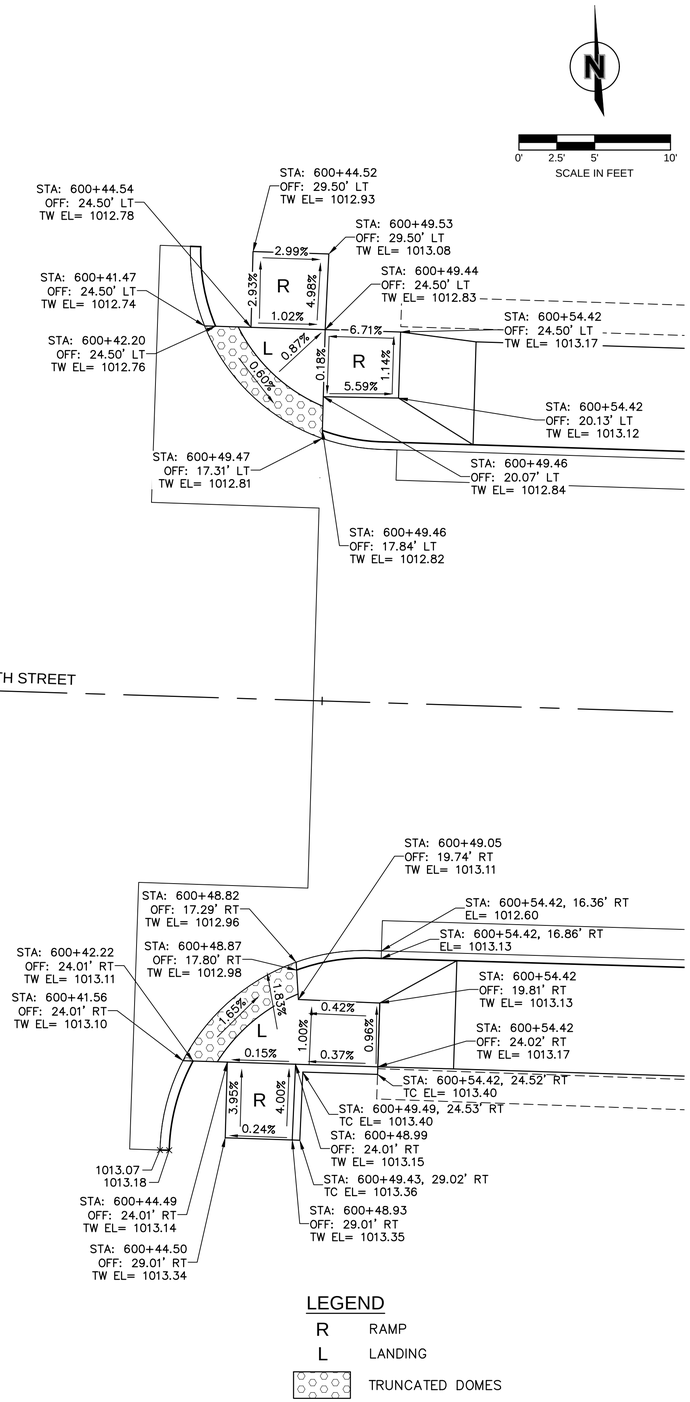
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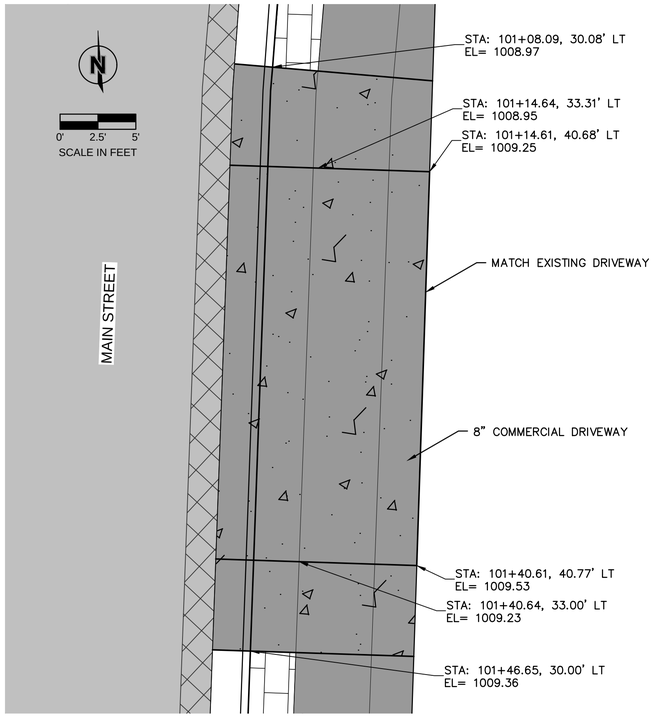
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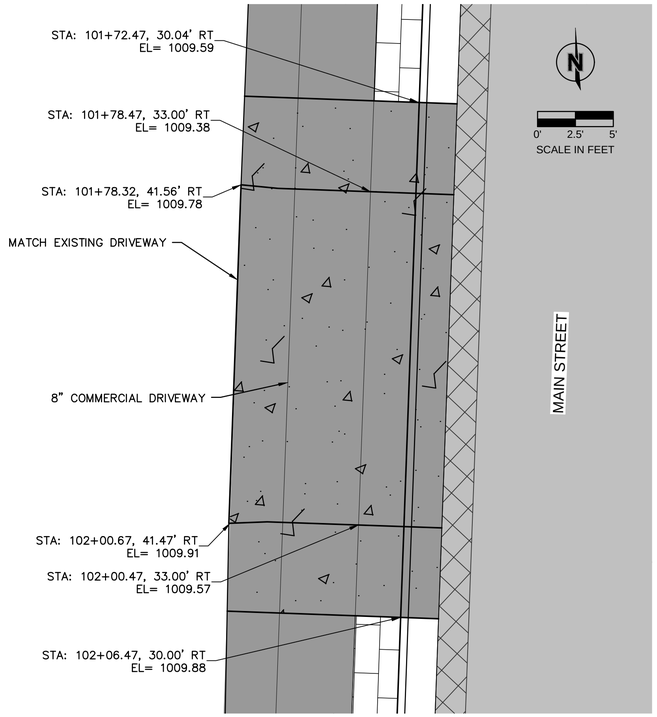
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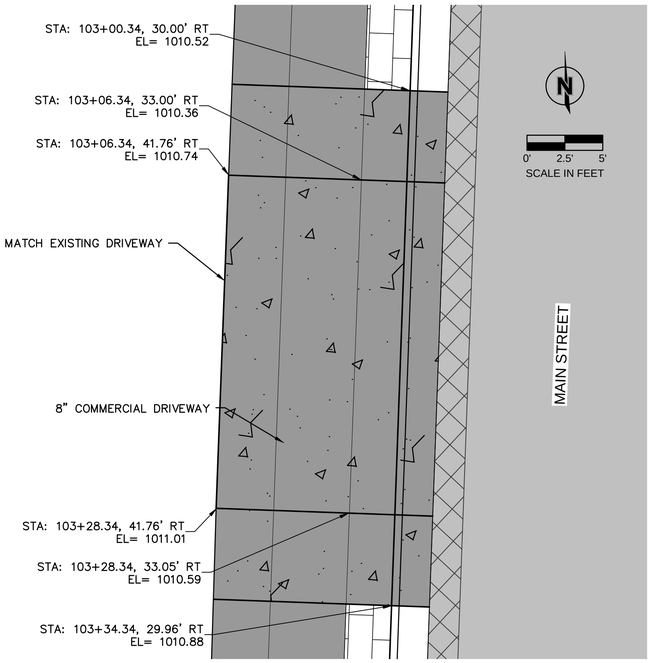

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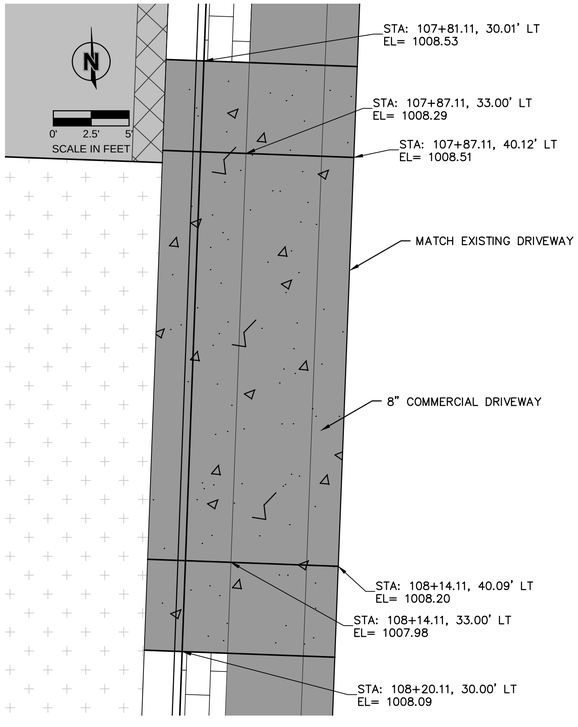

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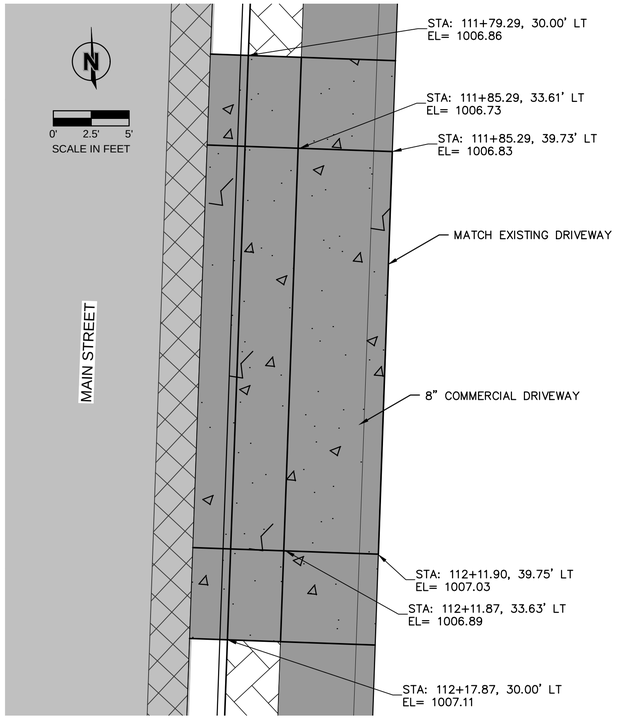

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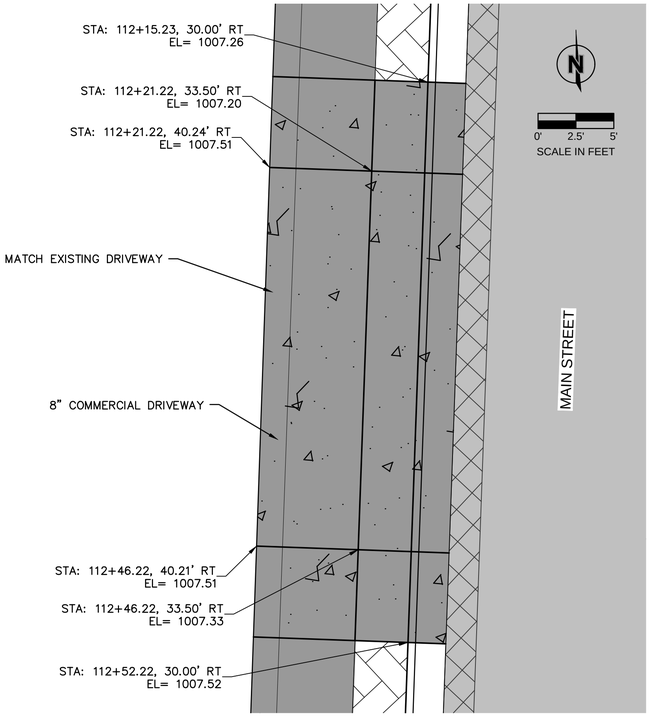

DRIVEWAY - STA 108+00 LT

SCALE: 1"=5'




DRIVEWAY - STA 111+98 LT

SCALE: 1"=5'




DRIVEWAY - STA 112+34 RT

SCALE: 1"=5'

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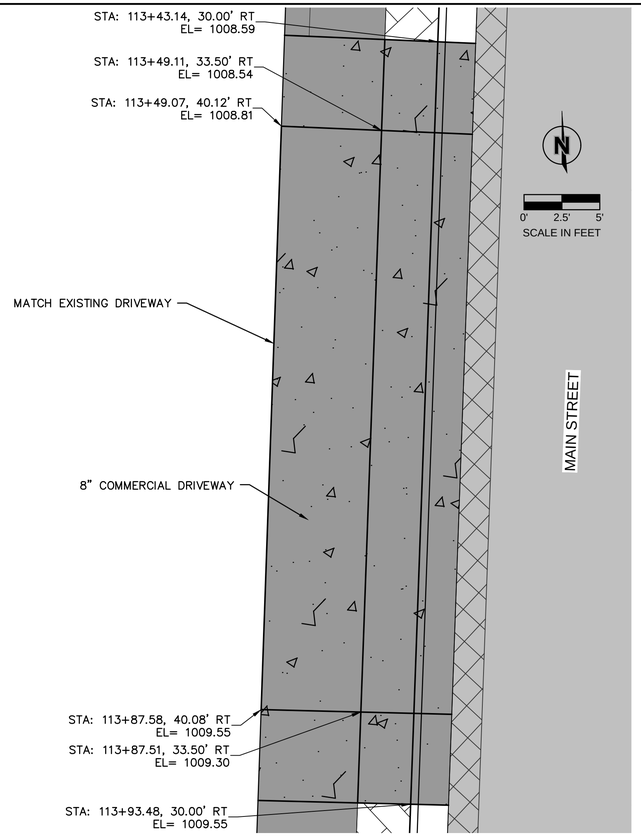
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drawing no.: T_DWY01_02300893
date: 4.19.2026

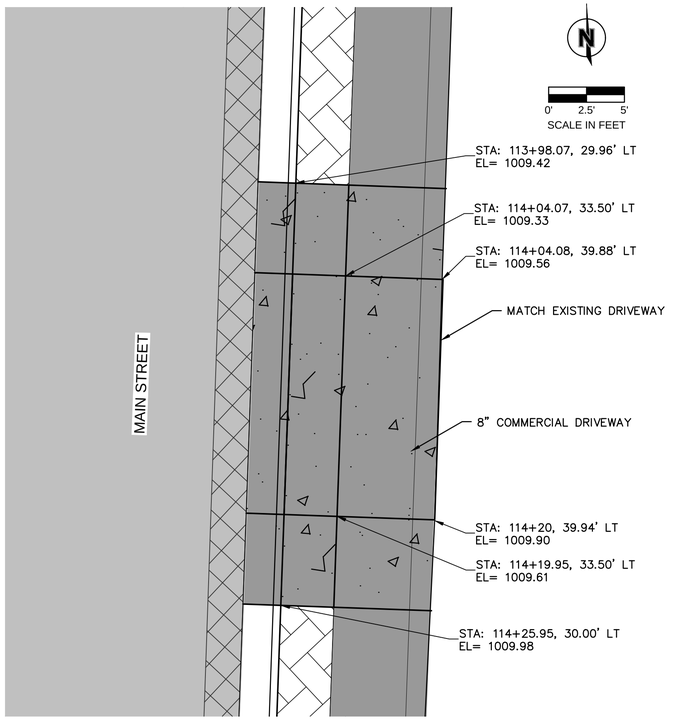
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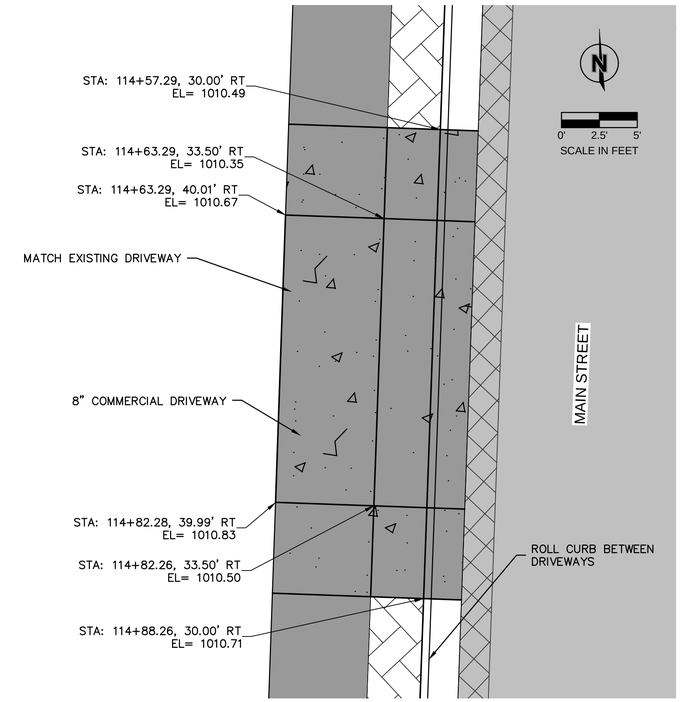

DRIVEWAY - STA 113+68 RT

SCALE: 1"=5'



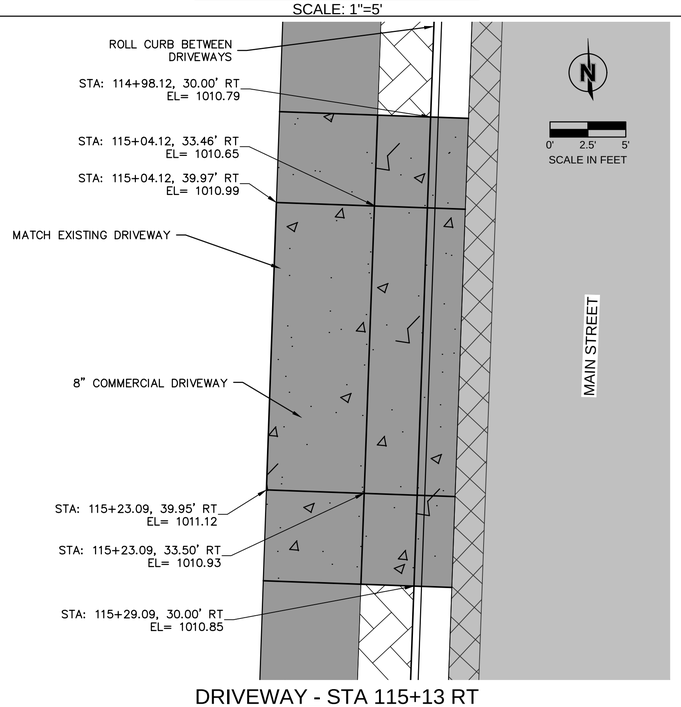

DRIVEWAY - STA 114+12 LT

SCALE: 1"=5'



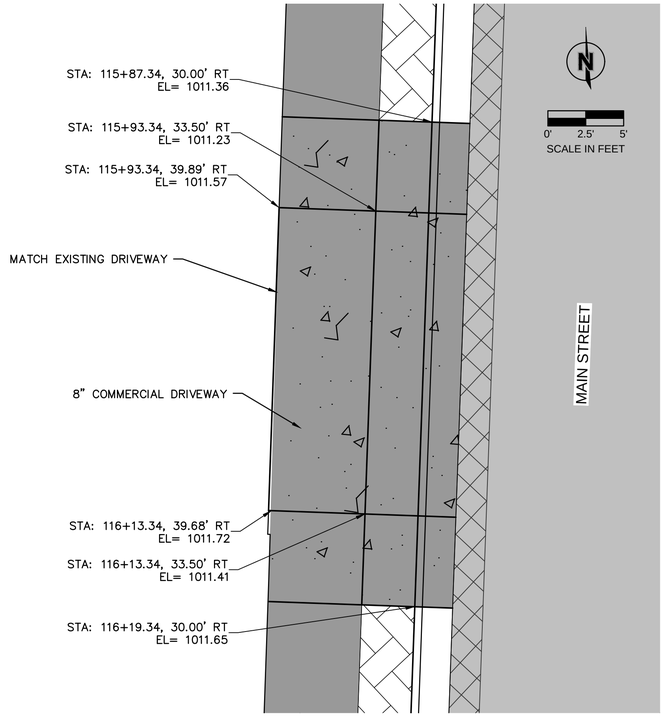

DRIVEWAY - STA 114+73 RT

SCALE: 1"=5'



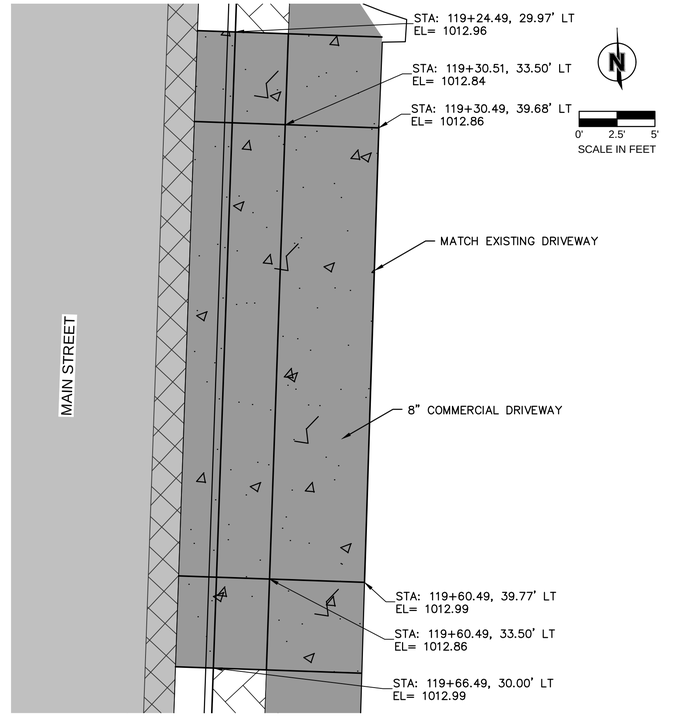

DRIVEWAY - STA 115+13 RT

SCALE: 1"=5'




DRIVEWAY - STA 116+03 RT

SCALE: 1"=5'




DRIVEWAY - STA 119+45 LT

SCALE: 1"=5'

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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|
| | | REVISIONS | |

DRIVEWAY LAYOUTS
MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

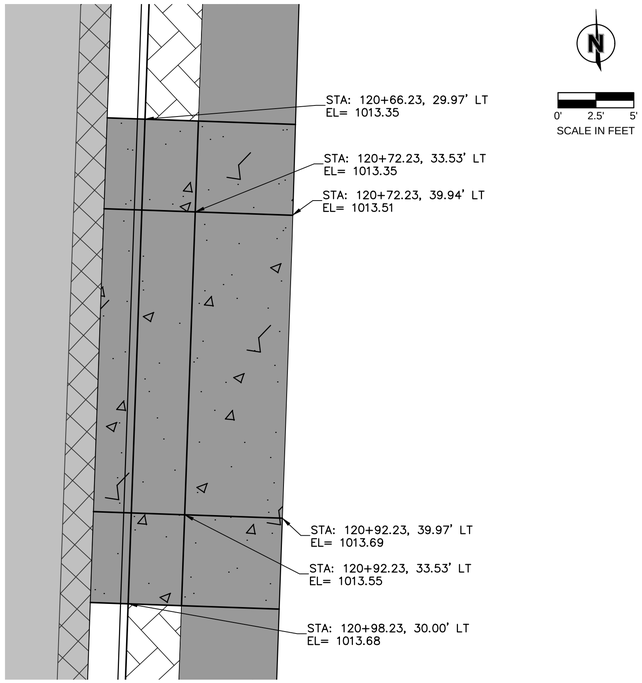
2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DWY01_02300893
date: 4.19.2026

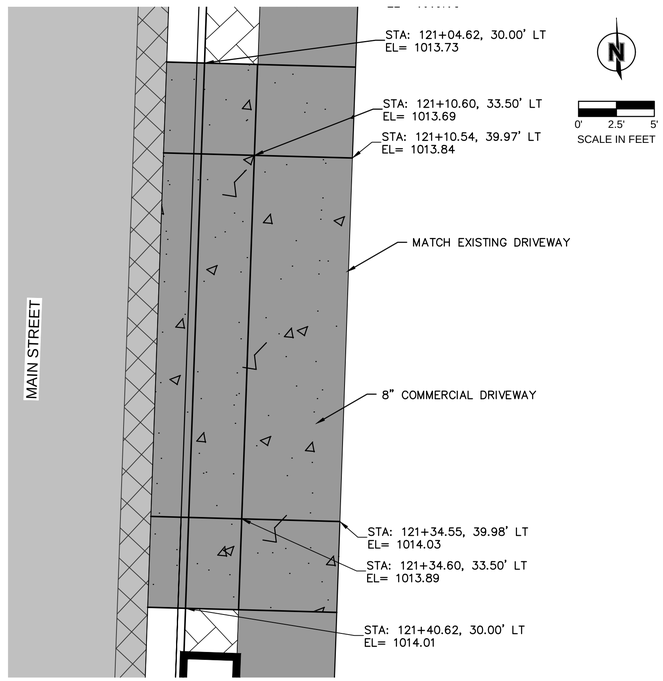
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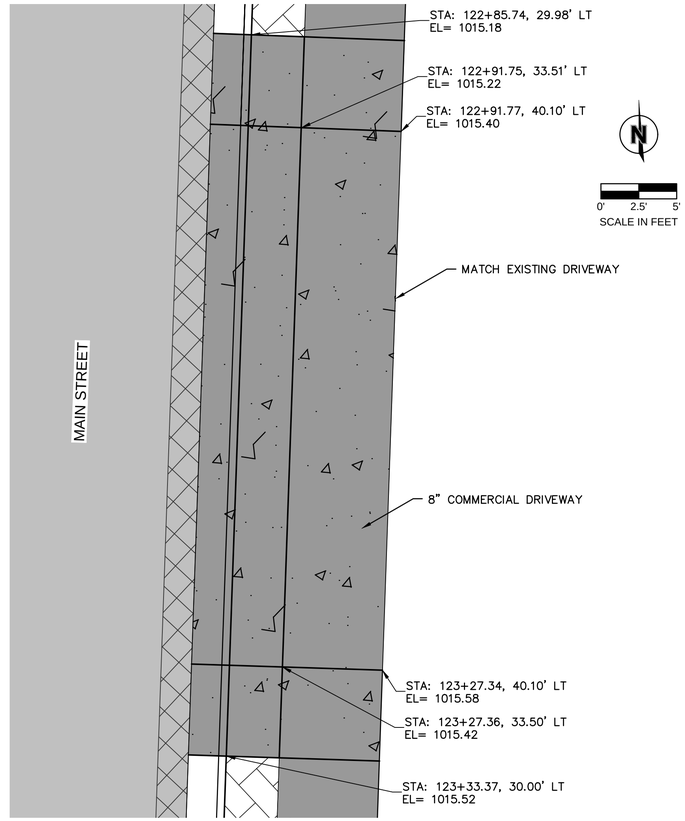

DRIVEWAY - STA 120+82 LT

SCALE: 1"=5'



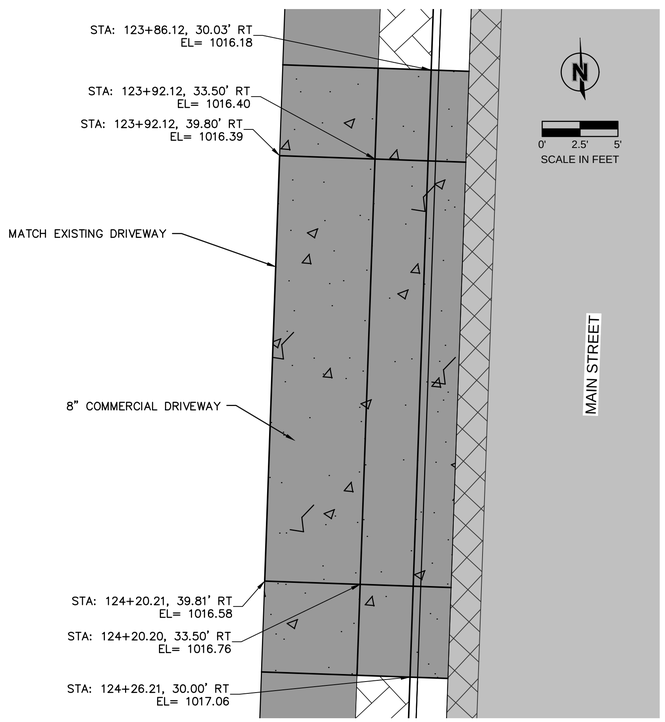

DRIVEWAY - STA 121+22 LT

SCALE: 1"=5'



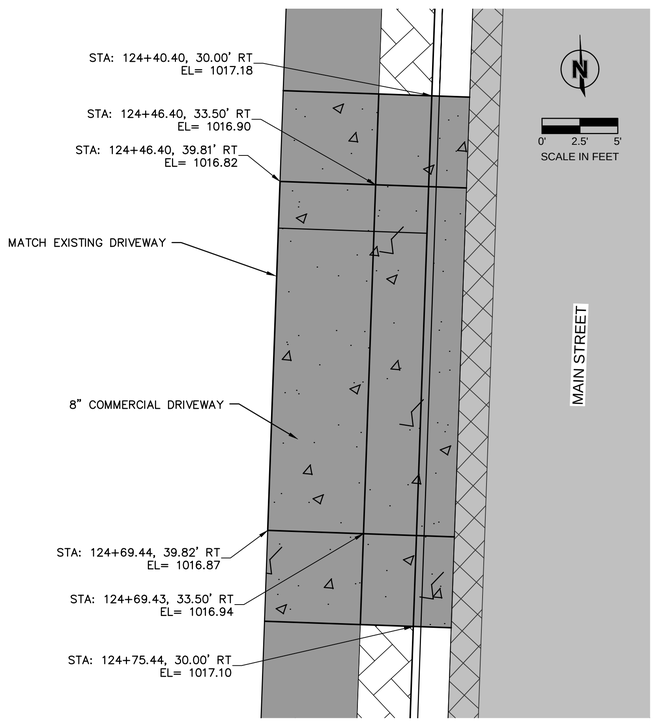

DRIVEWAY - STA 123+09 LT

SCALE: 1"=5'



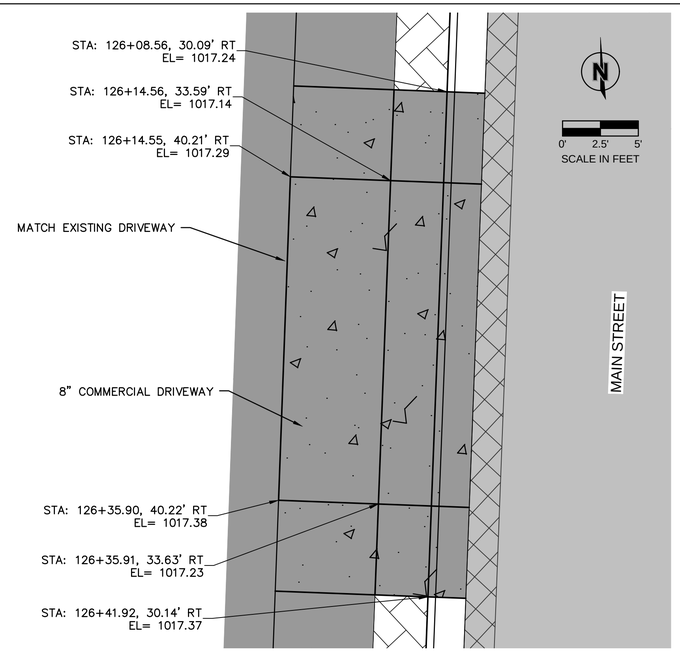

DRIVEWAY - STA 124+06 RT

SCALE: 1"=5'




DRIVEWAY - STA 124+57 RT

SCALE: 1"=5'




DRIVEWAY - STA 126+25 RT

SCALE: 1"=5'

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PROFESSIONAL ENGINEER

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|---|---|---|---|

REVISIONS

DRIVEWAY LAYOUTS
MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

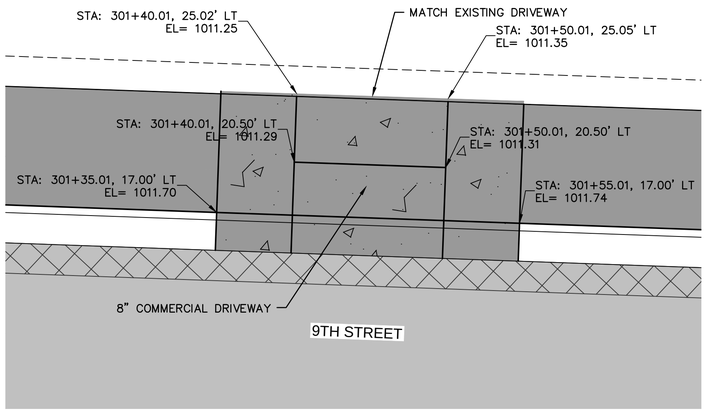
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DWY01_02300893
date: 4.19.2026

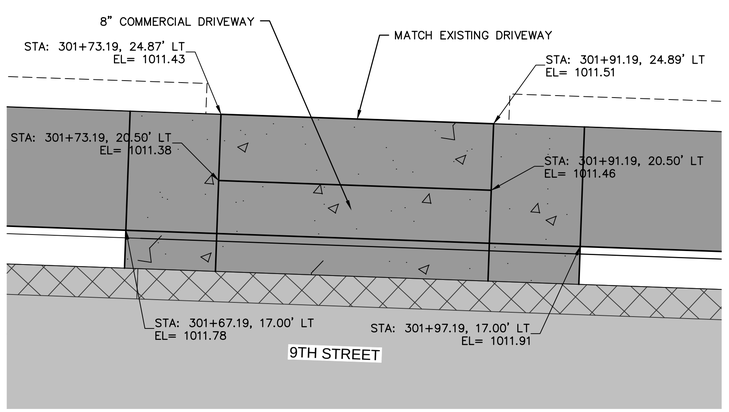
SHEET
65 of 162

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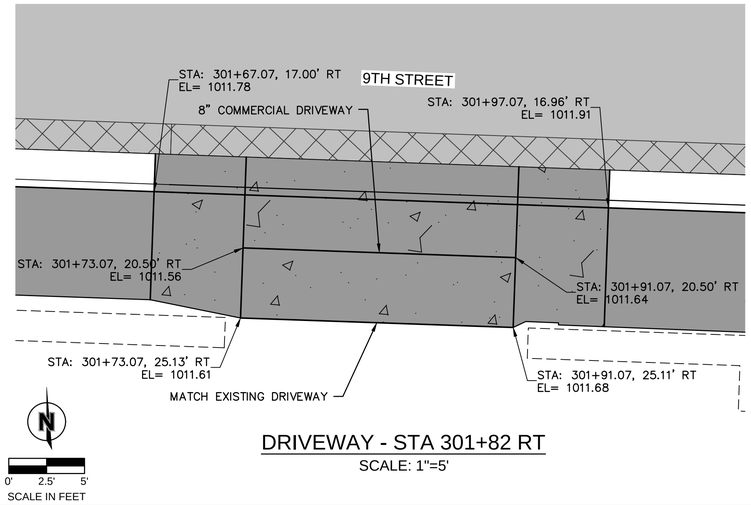

## DRIVEWAY - STA 301+45 LT

SCALE: 1"=5'



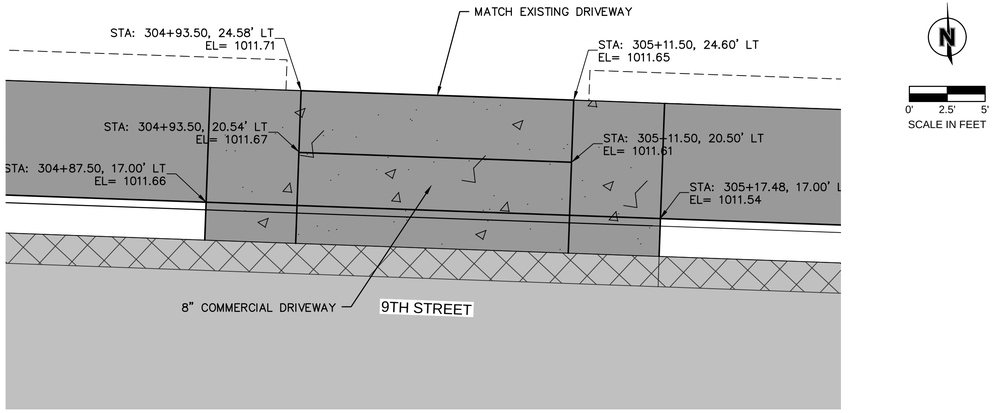

## DRIVEWAY - STA 301+82 LT

SCALE: 1"=5'



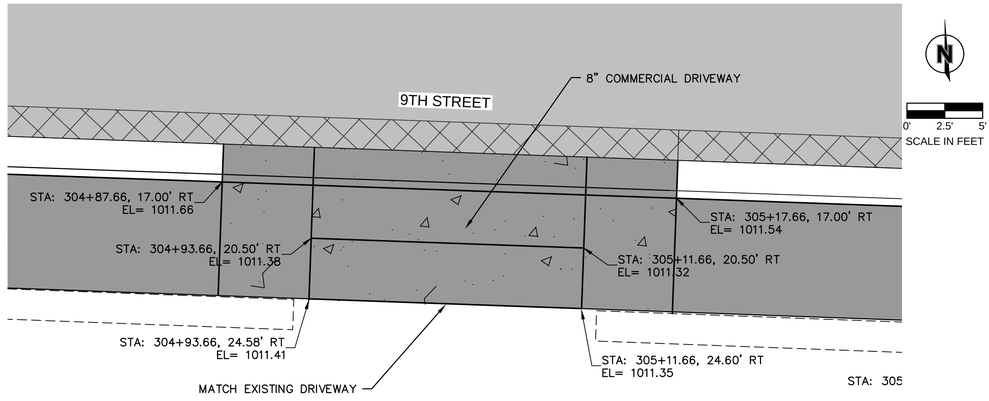

## DRIVEWAY - STA 301+82 RT

SCALE: 1"=5'



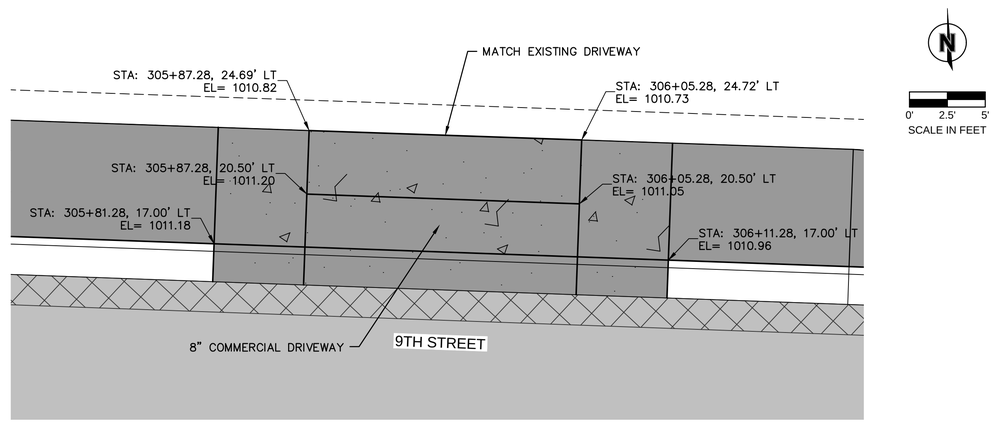

## DRIVEWAY - STA 305+03 LT

SCALE: 1"=5'



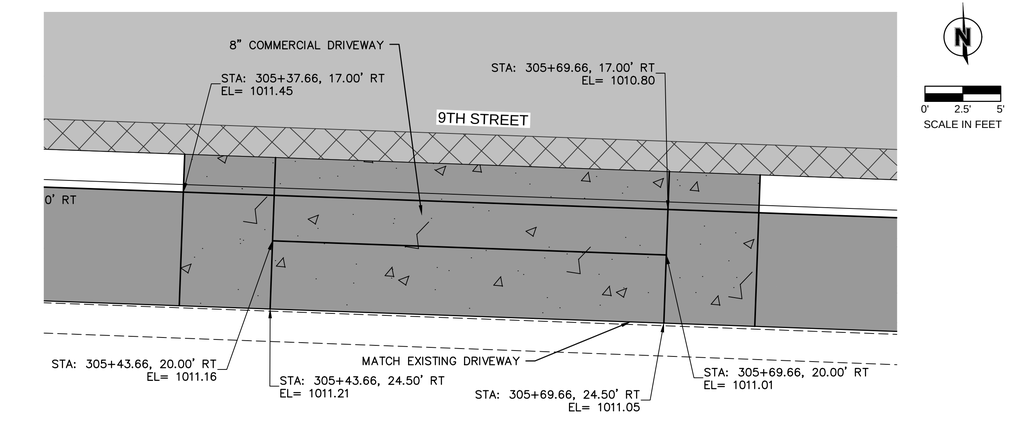

## DRIVEWAY - STA 305+02 RT

SCALE: 1"=5'




## DRIVEWAY - STA 305+96 LT

SCALE: 1"=5'




## DRIVEWAY - STA 305+50 RT

SCALE: 1"=5'

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MICHAEL J. MAYFARTH
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PROFESSIONAL ENGINEER
4/21/2026

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

DRIVEWAY LAYOUTS
9th STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

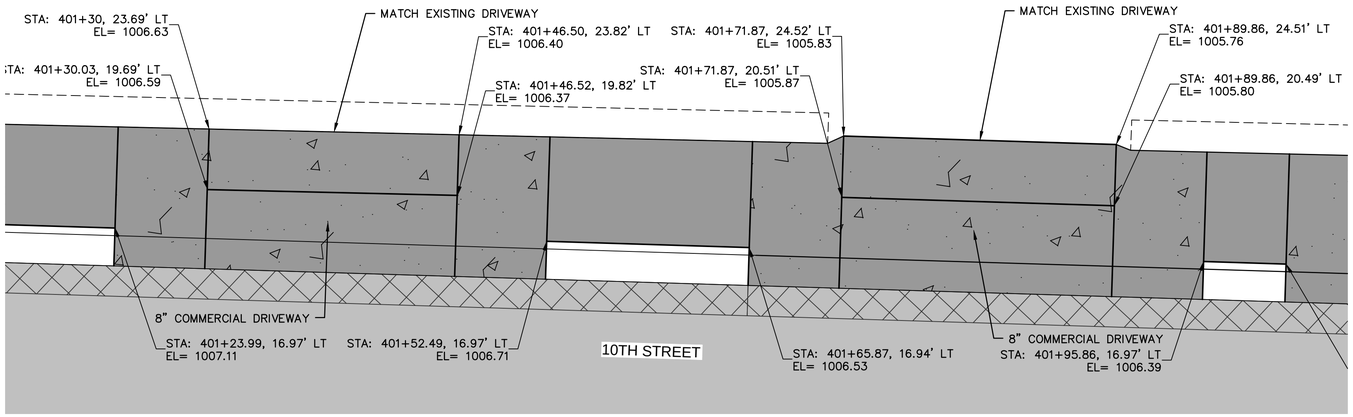
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DWY01_02300893
date: 4.19.2026

SHEET
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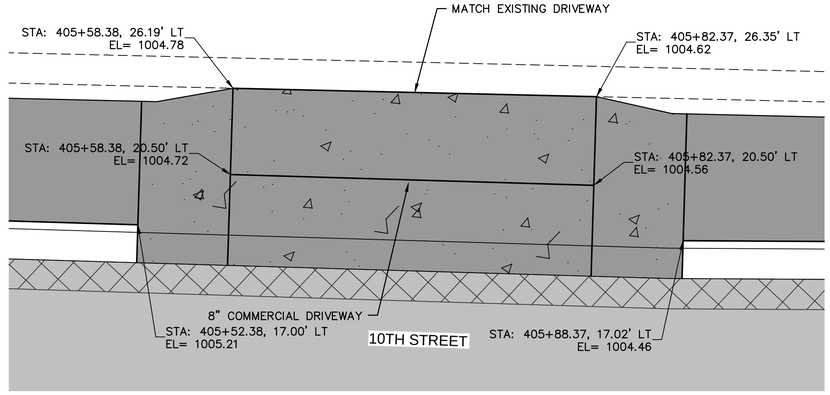
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V_XTOPO_02300893_Combined




DRIVEWAY - STA 401+38 LT
SCALE: 1"=5'

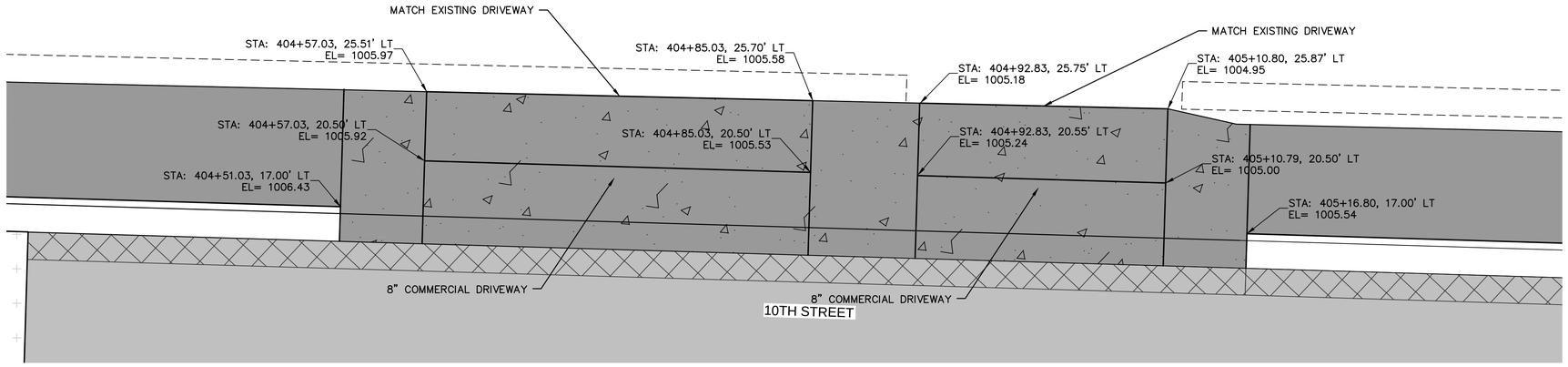
0' 2.5' 5'
SCALE IN FEET

DRIVEWAY - STA 401+80 LT
SCALE: 1"=5'



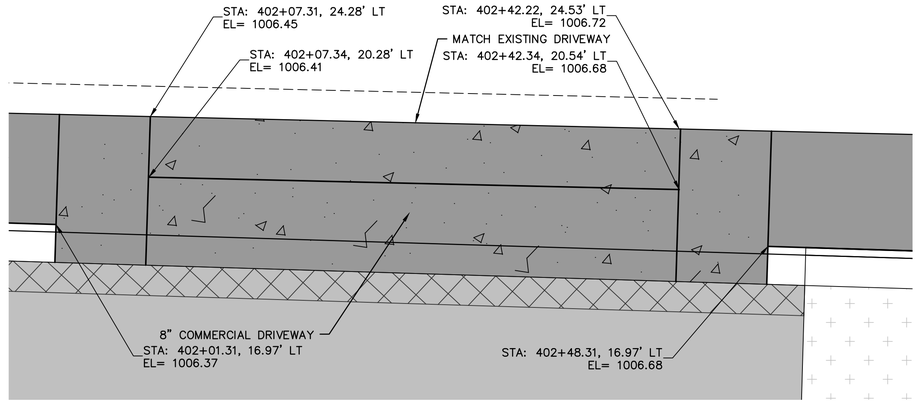

DRIVEWAY - STA 405+70 LT
SCALE: 1"=5'

0' 2.5' 5'
SCALE IN FEET




DRIVEWAY - STA 404+84 LT
SCALE: 1"=5'

0' 2.5' 5'
SCALE IN FEET




DRIVEWAY - STA 402+24 LT
SCALE: 1"=5'

0' 2.5' 5'
SCALE IN FEET

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4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

DRIVEWAY LAYOUTS
10th STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

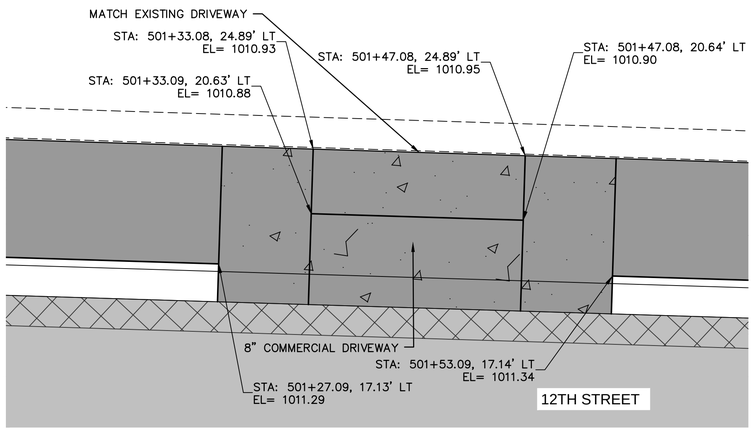
2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DWY01_02300893
date: 4.19.2026

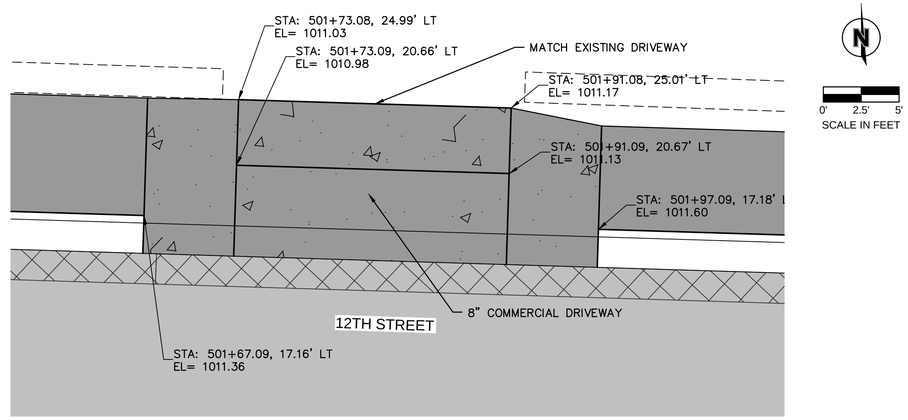
SHEET
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DATE: Apr 19, 2026 5:50pm XREFS: T_PTBLK_02300893 T_PBASE_02300893 T_PBASE_ADD-ALT_02300893 T_PPAIT_02300893 T_PPAIT_ADD-ALT_02300893
V_XTOPO_02300893_Combined



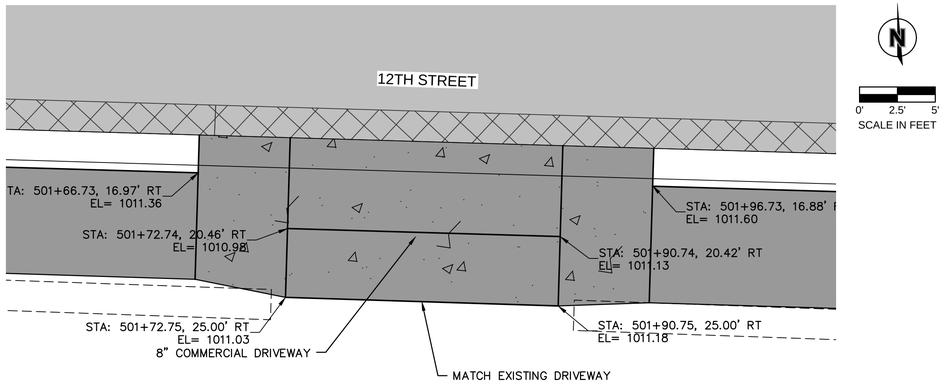

## DRIVEWAY - STA 501+40 LT

SCALE: 1"=5'



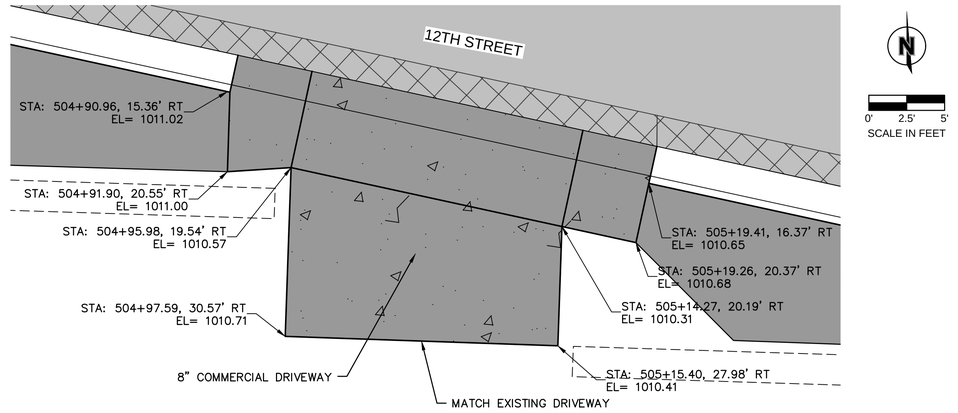

## DRIVEWAY - STA 501+82 LT

SCALE: 1"=5'



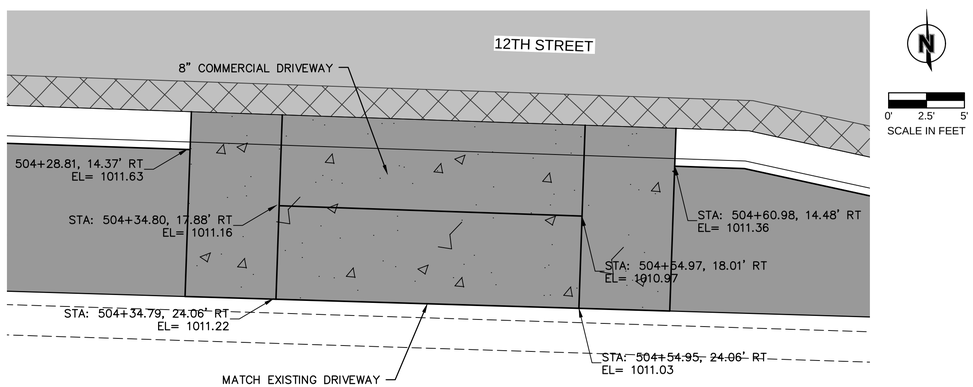

## DRIVEWAY - STA 501+82 RT

SCALE: 1"=5'



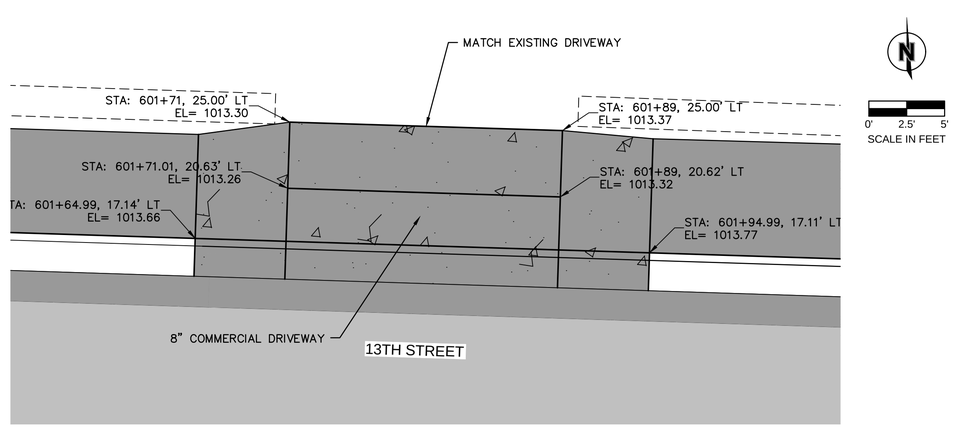

## DRIVEWAY - STA 505+05 LT

SCALE: 1"=5'




## DRIVEWAY - STA 504+45 RT

SCALE: 1"=5'




## DRIVEWAY - STA 601+80 LT

SCALE: 1"=5'

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MICHAEL J. MAYFARTH
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PROFESSIONAL ENGINEER
4/21/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

DRIVEWAY LAYOUTS
12th STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

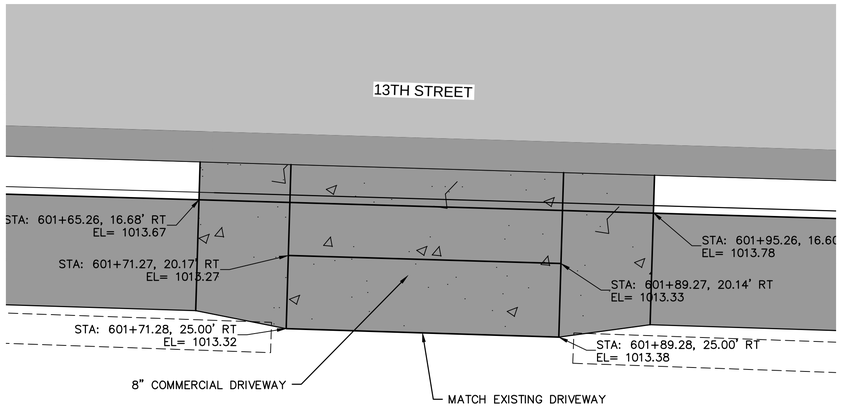
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DWY01_02300893
date: 4.19.2026

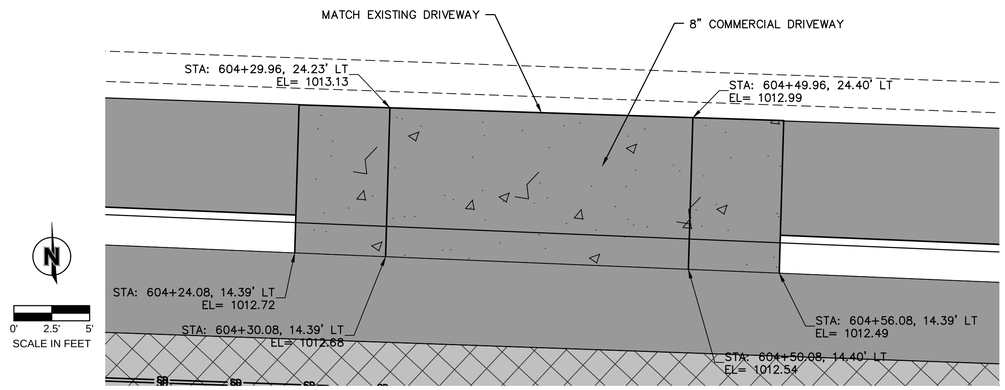
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DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\RDBR\T_DWY01_02300893.dwg USER: mmayfarth
DATE: Apr 19, 2026 5:51pm XREFS: T_PTBLK_02300893 T_PBASE_02300893 T_PPATT_02300893 V_XTOPO_02300893_Combined T_PPATT_ADD-ALT_02300893 T_PBASE_ADD-ALT_02300893



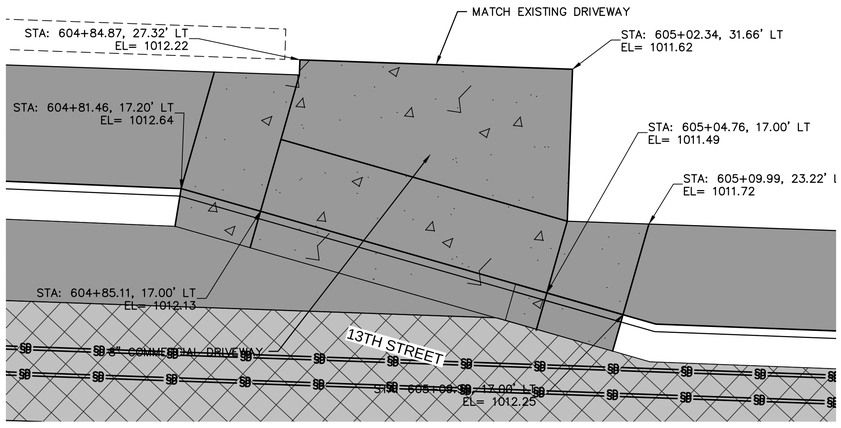

## DRIVEWAY - STA 601+80 RT

SCALE: 1"=5'



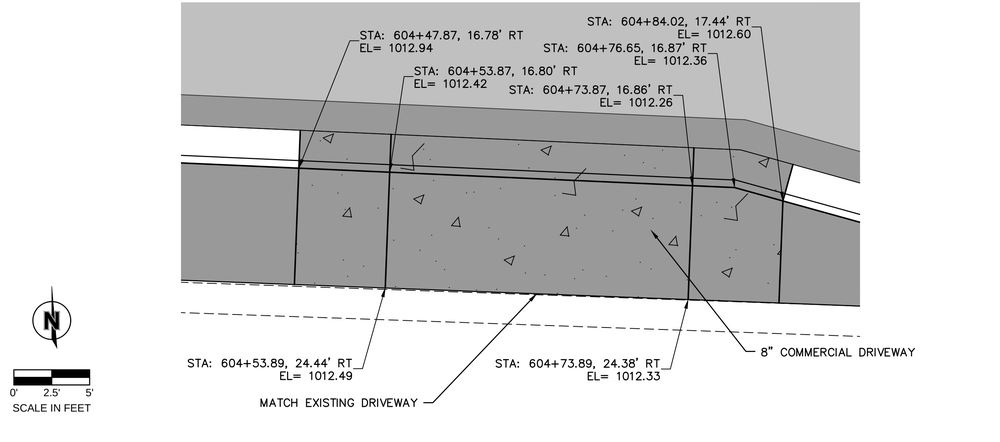

## DRIVEWAY - STA 604+40 RT

SCALE: 1"=5'



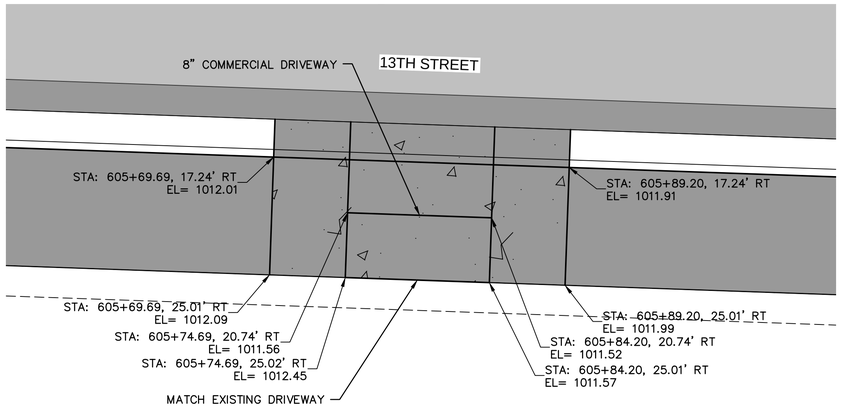

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SCALE: 1"=5'



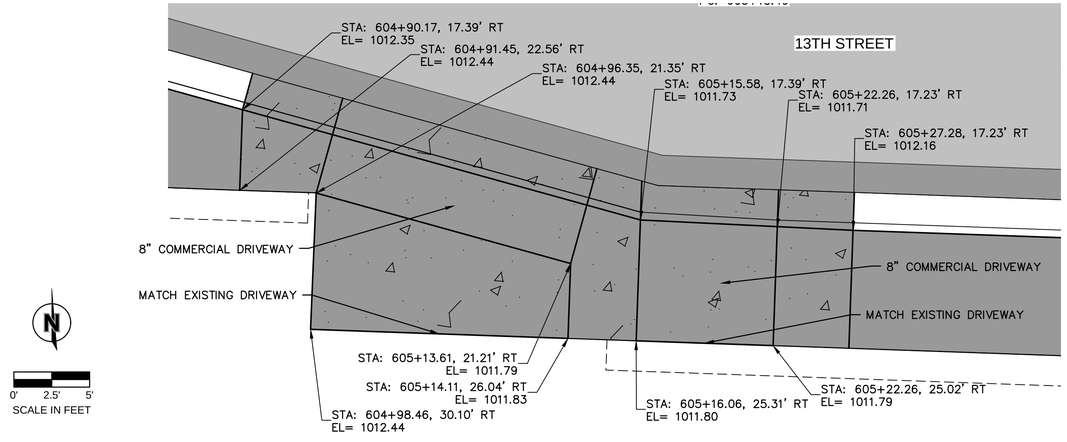

## DRIVEWAY - STA 604+64 RT

SCALE: 1"=5'




## DRIVEWAY - STA 605+79 RT

SCALE: 1"=5'




## DRIVEWAY - STA 605+04 RT

SCALE: 1"=5'

## DRIVEWAY - STA 605+19 RT

SCALE: 1"=5'

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MICHAEL J. MAYFARTH
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PROFESSIONAL ENGINEER
4/27/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|
| 14th STREET | | REVISIONS | |

DRIVEWAY LAYOUTS
13th STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

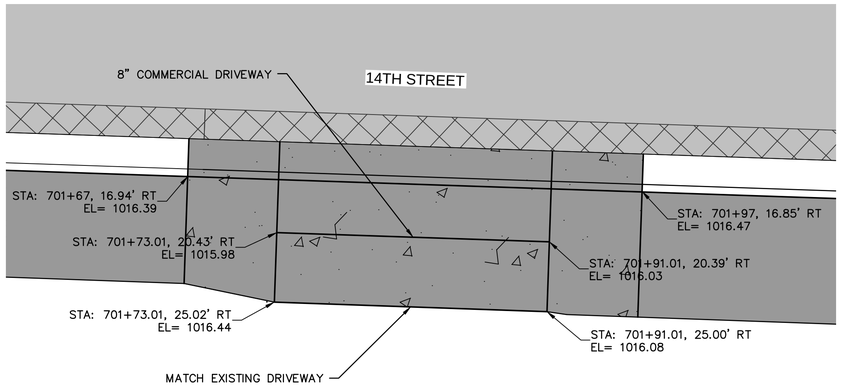
JOPLIN, MO

2025

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|---|---|
| drawn by: | CTK/MJM |
| checked by: | MJM |
| approved by: | JWP |
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| project no.: | 023-00893 |
| drawing no.: | T_DWY01_02300893 |
| date: | 4.19.2026 |

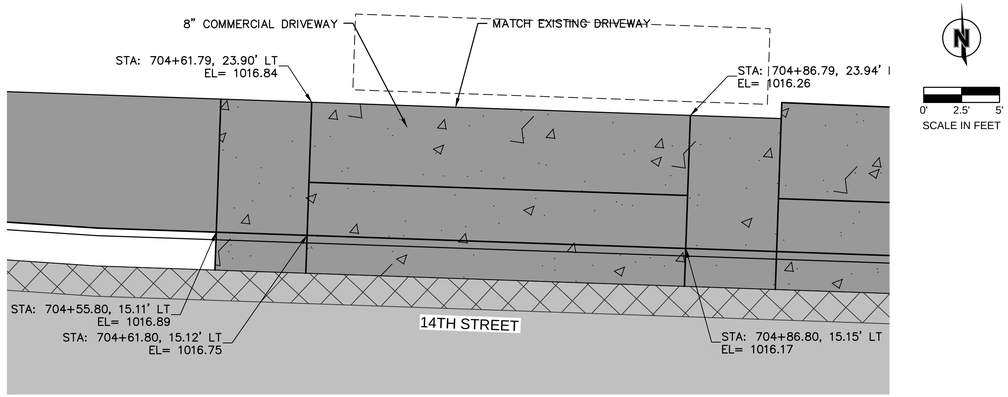
SHEET
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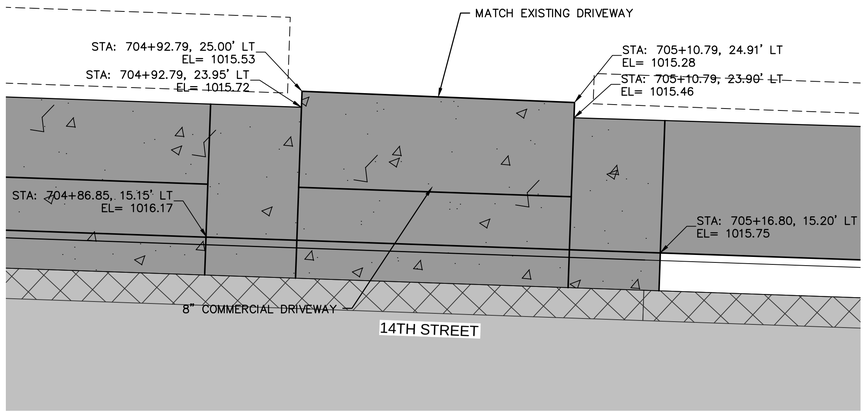

## DRIVEWAY - STA 701+82 RT

SCALE: 1"=5'



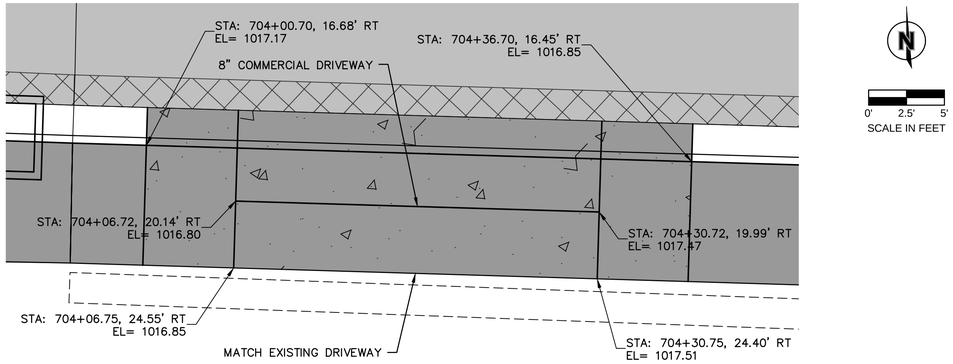

## DRIVEWAY - STA 704+66 RT

SCALE: 1"=5'



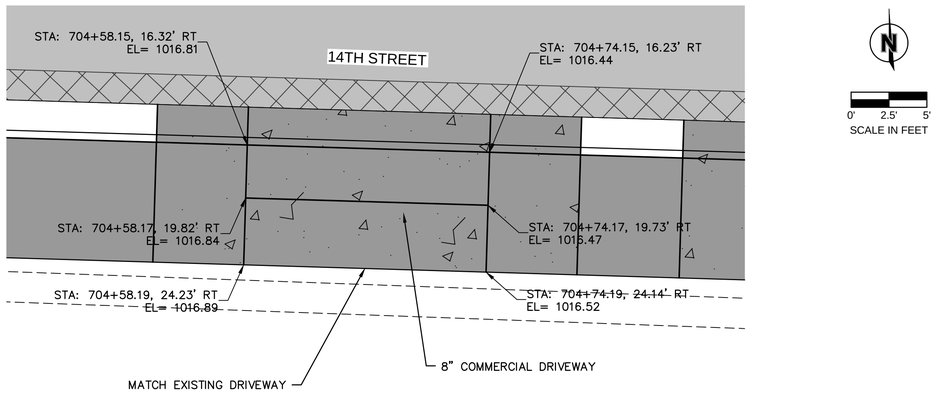

## DRIVEWAY - STA 705+02 LT

SCALE: 1"=5'



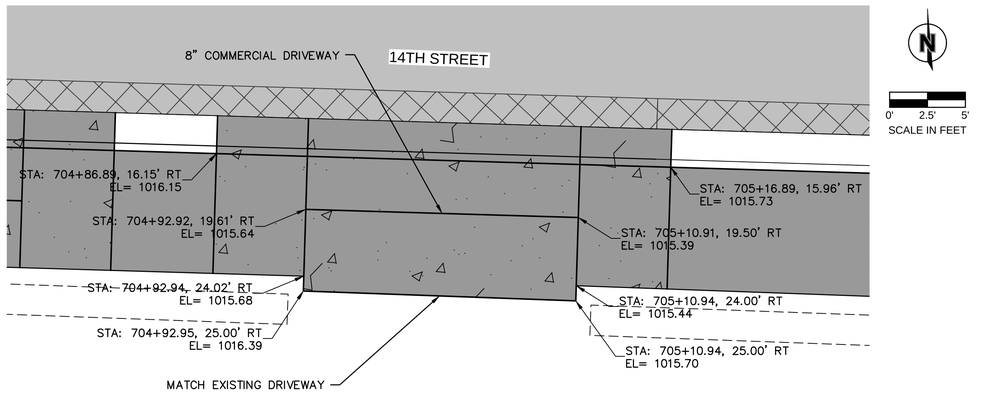

## DRIVEWAY - STA 704+18 RT

SCALE: 1"=5'




## DRIVEWAY - STA 705+02 RT

SCALE: 1"=5'




## DRIVEWAY - STA 705+02 RT

SCALE: 1"=5'

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Missouri Certificate of Authority # 001592
1027 S. Main Street, Suite 503
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TEL 417.781.0643
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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

DRIVEWAY LAYOUTS
14th STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

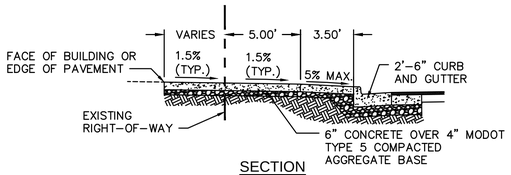
JOPLIN, MO

2025

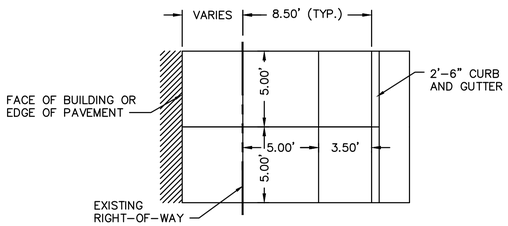
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checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DWY01_02300893
date: 4.19.2026

SHEET
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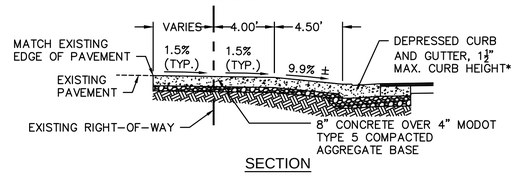
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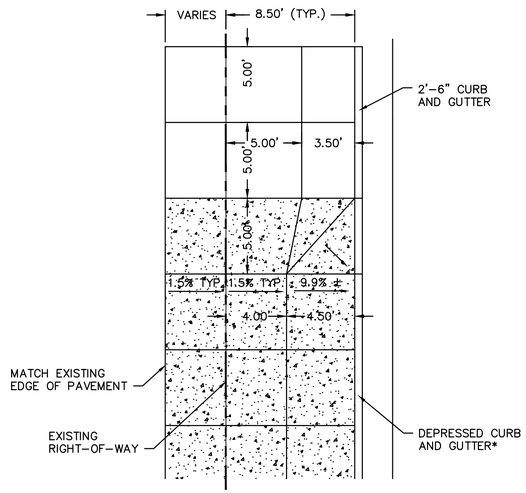

SECTION



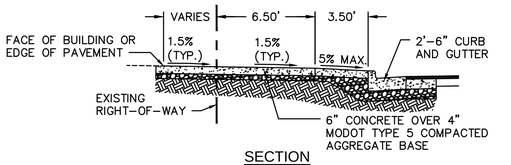

SIDEWALK DETAIL
8.5' SIDEWALK



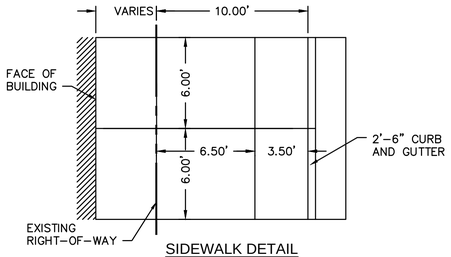

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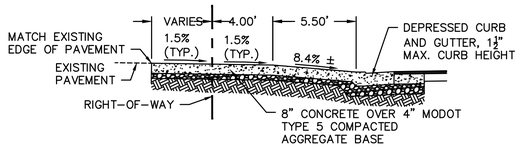

TYPE 1 DRIVEWAY DETAIL



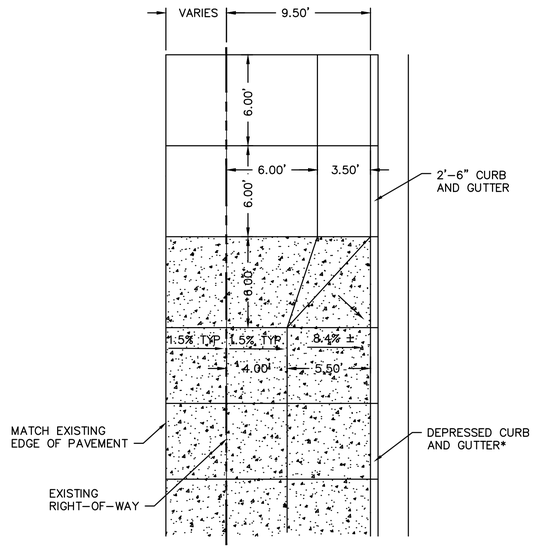

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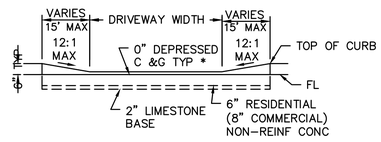

SIDEWALK DETAIL
10' SIDEWALK



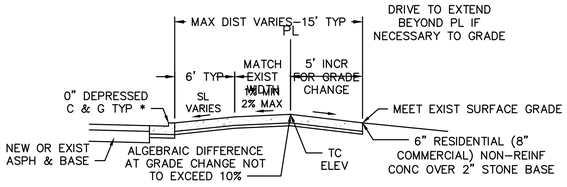

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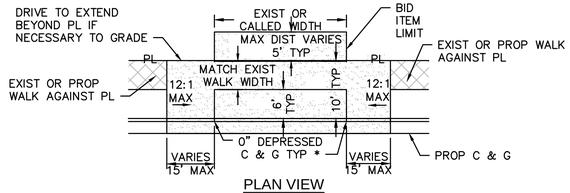



TYPE 2 DRIVEWAY DETAIL




DRIVE SIDE VIEW

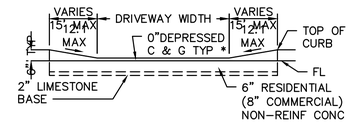


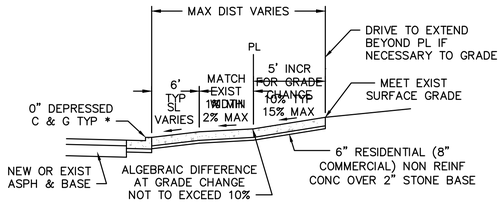

PLAN VIEW

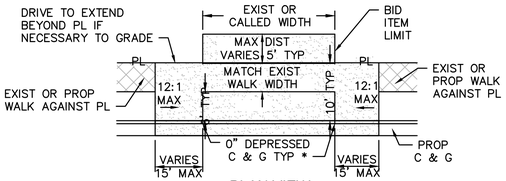
NOTES:
1. ALL POURED CONCRETE SHALL BE CLASS 'B'.
2. STEEL REINFORCEMENT IS NOT ALLOWED.
3. ALL GUTTER CONST IN FRONT OF DRIVE & ALL CURB & GUTTER IN DRIVE TRANSITIONS SHALL BE INCLUDED IN THE BID PRICE OF THE DRIVE.
4. BID PRICE FOR ALL DRIVES SHALL INCLUDE ALL EXCAVATION, LABOR, & MATERIALS REQUIRED TO CONSTRUCT DRIVE.
5. MAXIMUM DRIVE GRADE SHALL NOT EXCEED 15%.
6. * = 1.5" DEPRESSED CURB ALLOWED WHEN NEEDED FOR DRAINAGE OR SIDEWALK GRADE.

TYPE 'C' DRIVE-IN FILL-TYPICAL
NTS




DRIVE SIDE VIEW

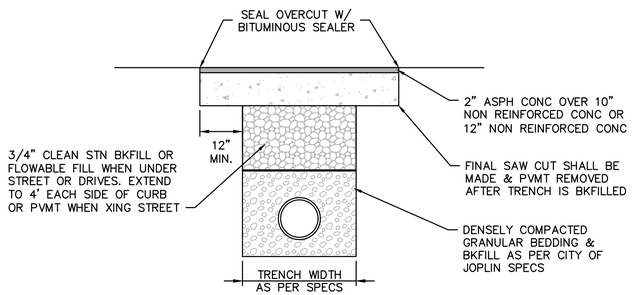



PLAN VIEW

NOTES:
1. ALL POURED CONCRETE SHALL BE CLASS 'B'.
2. STEEL REINFORCEMENT IS NOT ALLOWED.
3. ALL GUTTER CONST IN FRONT OF DRIVE & ALL CURB & GUTTER IN DRIVE TRANSITIONS SHALL BE INCLUDED IN THE BID PRICE OF THE DRIVE.
4. BID PRICE FOR ALL DRIVES SHALL INCLUDE ALL EXCAVATION, LABOR, & MATERIALS REQUIRED TO CONSTRUCT DRIVE.
5. MAXIMUM DRIVE GRADE SHALL NOT EXCEED 15%.
6. * = 1.5" DEPRESSED CURB ALLOWED WHEN NEEDED FOR DRAINAGE OR SIDEWALK GRADE.

TYPE 'C' DRIVE IN CUT-TYPICAL
NTS




PAVEMENT REPAIR DETAIL
N.T.S.

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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

STANDARD DETAILS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

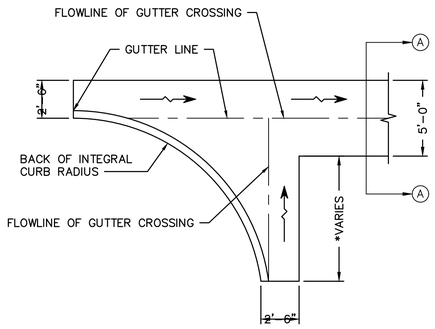
2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DET01_02300893
date: 4.19.2026

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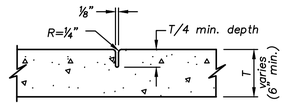



*NOTE:
LENGTH OF MONOLITHIC CONCRETE GUTTER SHALL EXTEND TO THE CURB RETURN.

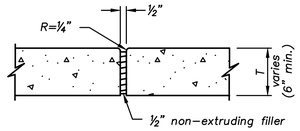
PLAN

## CONCRETE JOINTING NOTES

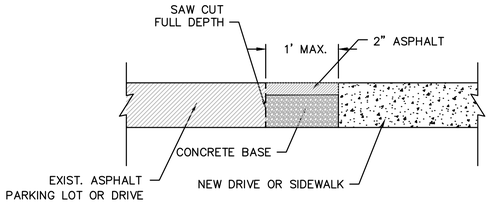
1. CONTRACTION JOINTS SHALL BE 1/4 OF SLAB THICKNESS. ALL CONTRACTION JOINTS SHALL BE SAWED.
2. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS SHOWN ON PLANS WITH A MINIMUM SPACING AS FOLLOWS:
   a. LONGITUDINAL CONSTRUCTION JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET, TOOLED TO 1/4 THE SLAB THICKNESS AND OF THE KEYED (TOUNGE AND GROOVE) TYPE.
   b. TRANSVERSE CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE AND OF THE KEYED TYPE.
   c. TRANSVERSE CONSTRUCTION JOINTS SPACED AT INTERVALS NOT GREATER THAN 6 FEET FOR 5" PAVEMENT SHOULD BE TOOLED TO 1/4 OF THE SLAB THICKNESS.
   d. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, RETAINING WALLS, DRAINAGE STRUCTURES, BOLLARDS, LIGHT POLES, STAIRS AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 3/4" NON-EXTRUDING FILLER, CLOSED-CELL FOAM RUBBER OR A BITUMEN-TREATED FIBER-BOARD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET.
   e. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL ABUTTING EDGES TO BE THICKENED AS DESCRIBED IN "D".
3. CONTRACTOR TO RESET FLUSH ALL MANHOLE COVERS, VALVE BOX LIDS, AND ANY OTHER LIKE ITEMS THAT ARE TO REMAIN IN THE PAVED AREAS.



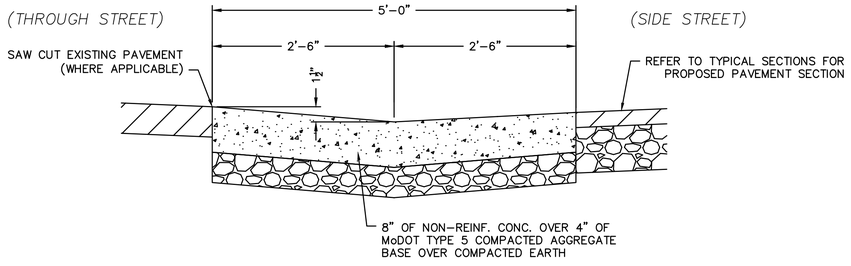

TYPE A
(Contraction)




TYPE B
(Isolation)



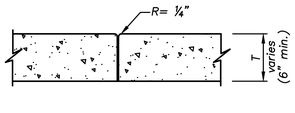

SIDEWALK / DRIVEWAY CONNECTION
TO EXISTING ASPHALT



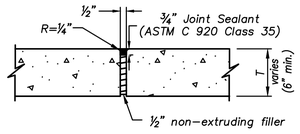

SECTION A-A

NOTE:
CURB ADJACENT TO SIDEWALK RAMP SHALL BE CONSTRUCTED MONOLITHIC TO THE CONCRETE GUTTER CROSSING. PAYMENT FOR CONCRETE GUTTER CROSSING SHALL BE MADE UNDER THE BID ITEM "CONCRETE PAVEMENT". ALL MONOLITHIC CURB & GUTTER AND AGGREGATE BASE SHALL BE CONSIDERED SUBSIDIARY TO THE BID ITEM "CONCRETE PAVEMENT".

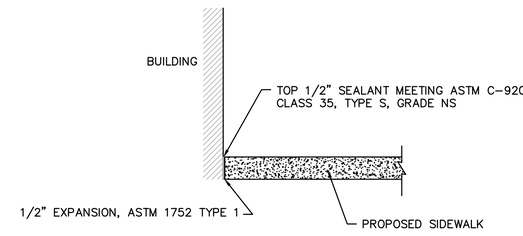
## CONCRETE GUTTER CROSSING
N.T.S.



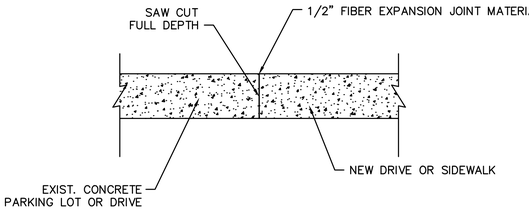

TYPE C
(Construction)




TYPE D
(Expansion)

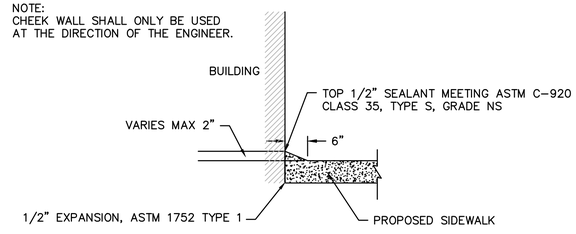



ISOLATION JOINT AT BUILDING




SIDEWALK / DRIVEWAY CONNECTION
TO EXISTING CONCRETE

NOTE:
CHEEK WALL SHALL ONLY BE USED AT THE DIRECTION OF THE ENGINEER.




ISOLATION JOINT AT BUILDING
WITH CHEEK WALL

## CONCRETE JOINT DETAILS
N.T.S.


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Olsson - Civil Engineering
Missouri Certificate of Authority # 001592
1027 S. Main Street, Suite 503
Joplin, MO 64801
TEL 417.781.0643
www.olsson.com


STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/21/2026
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| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

STANDARD DETAILS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

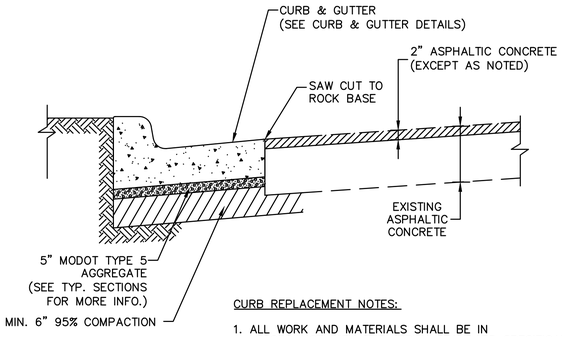
JOPLIN, MO

2025

drawn by: CTK/MJM
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SHEET
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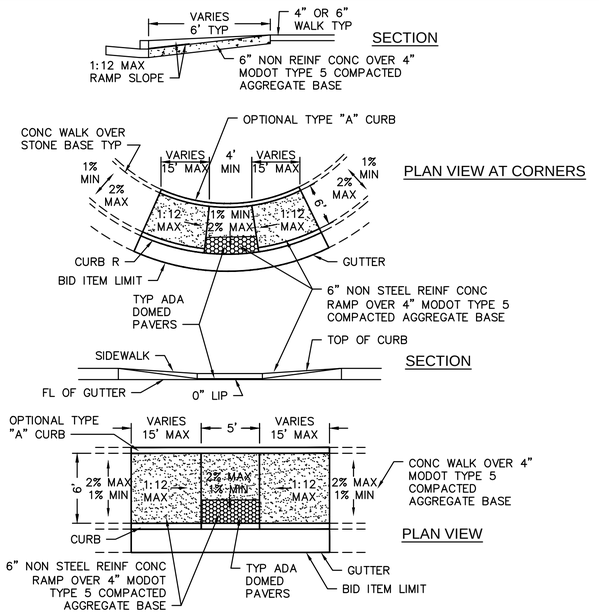



CURB REPLACEMENT NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE JOPLIN STANDARD SPECIFICATIONS.

## CURB REPLACEMENT DETAIL

NOT TO SCALE

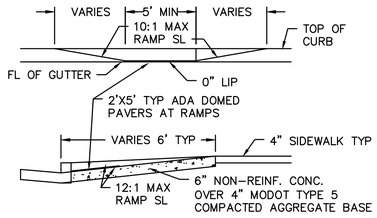


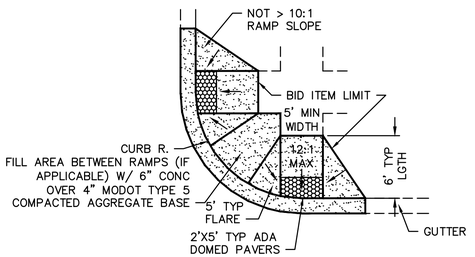

NOTES:

1. ALL GUTTER CONST IN FRONT OF RAMP & ALL C&G IN RAMP TRANSITIONS SHALL BE INCL IN THE BID PRICE OF THE C&G.
2. BID PRICE FOR SIDEWALK RAMPS SHALL INCL ALL EXCAVATION, LABOR, & MATERIALS REQUIRED TO CONST RAMP.
3. ALL RAMP CONCRETE SHALL BE CLASS 'B' FIBER REINFORCED.

## TYPE 'B' ADA RAMPS

N.T.S.




NOTES:

1. ALL GUTTER CONST IN FRONT OF RAMP & ALL C&G IN RAMP TRANSITIONS SHALL BE INCL IN THE BID PRICE OF THE C&G.
2. BID PRICE FOR SIDEWALK RAMPS SHALL INCL ALL EXCAVATION, LABOR, & MATERIALS REQUIRED TO CONST RAMP.
3. ALL RAMP CONC SHALL BE CLASS 'B' FIBER REINFORCED.

## TYPE 'C' ADA RAMP

N.T.S.

* = OPTIONAL WITH APPROVAL BY CITY ENGINEER.
** = CURB HEIGHT VARIES FROM 2" TO 6" TALL.




2" CLEAN STONE BASE RESIDENTIAL
4" CLEAN STONE BASE COLLECTOR
6" CLEAN STONE BASE ARTERIAL

NOTES:

1. JOINT MATERIAL TO EXTEND THRU C & G, FRONT TO BACK, & NEATLY TRIMMED TO MATCH CONC SURFACE.
2. FLOAT GROUT TO SURFACE ON EXPOSED SURFACES.
3. ALL POURED CONCRETE SHALL BE CLASS 'B'.

## CURB & GUTTER (CITY OF JOPLIN STANDARD)

N.T.S.

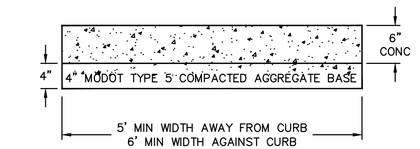



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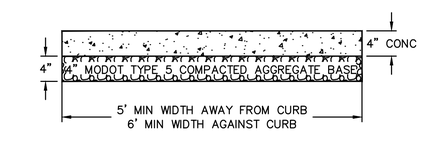
- (C) PERMISSIBLE CONSTRUCTION JOINT. IF CONSTRUCTED IN THIS MANNER TIE BARS MUST BE USED.
- (D) #4 TIE BAR AT 24" CENTERS. LENGTH OF THE TIE BARS EQUALS THICKNESS OF PAVEMENT PLUS HEIGHT OF CURB, LESS 3".
- (P) TOP OF PAVEMENT OR CONCRETE BASE.
- (R1) ROUND TO 1/2" RADIUS. (EXCEPT FOR SAWED JOINTS)
- (R2) ROUND TO 1 1/2" RADIUS.

## TYPE A INTEGRAL CURB

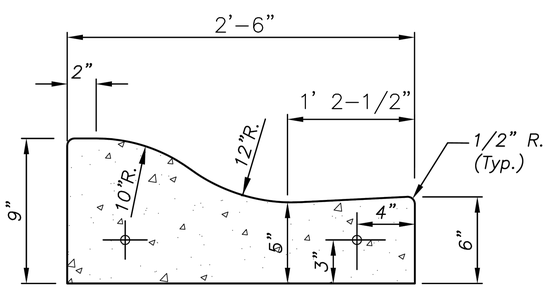
N.T.S.



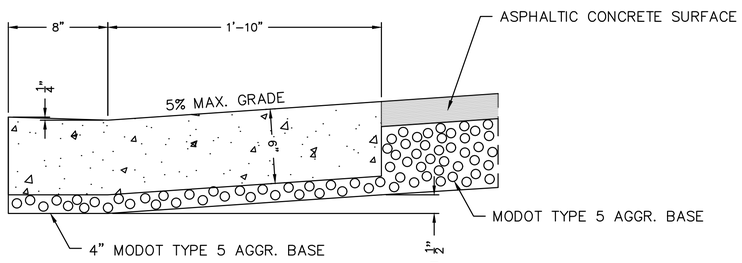

CLASS 'A' CONCRETE SIDEWALK (BUSINESS)




CLASS 'B' CONCRETE SIDEWALK (RESIDENTIAL)

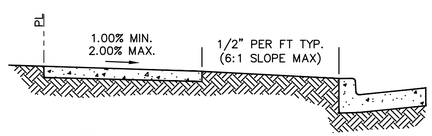



**TYPE "B"**




## CURB THROUGH SIDEWALK RAMPS

N.T.S.




NOTES:

1. CONSTRUCT EXPANSION JOINTS EVERY 50' MAX. & CONTRACTION JOINTS EVERY 10' MAX.
2. USE CLASS 'B' CONCRETE.
3. REINFORCEMENT IS OPTIONAL.
4. CROSS SLOPE OF WALK & DIRT BACKSLOPE CAN SLOPE AWAY FROM CURB IN FILL.

## CONCRETE SIDEWALK DETAILS

N.T.S.

olsson
Olsson - Civil Engineering
Missouri Certificate of Authority # 001592
1027 S. Main Street, Suite 503
Joplin, MO 64801
TEL 417.781.0643
www.olsson.com

STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/21/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

STANDARD DETAILS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

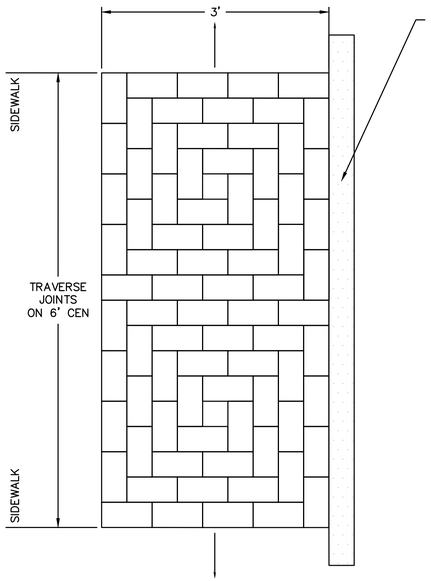
2025

JOPLIN, MO

| | |
|---|---|
| drawn by: | CTK/MJM |
| checked by: | MJM |
| approved by: | JWP |
| QA/QC by: | JWP |
| project no.: | 023-00893 |
| drawing no.: | T_DET01_02300893 |
| date: | 4.19.2026 |

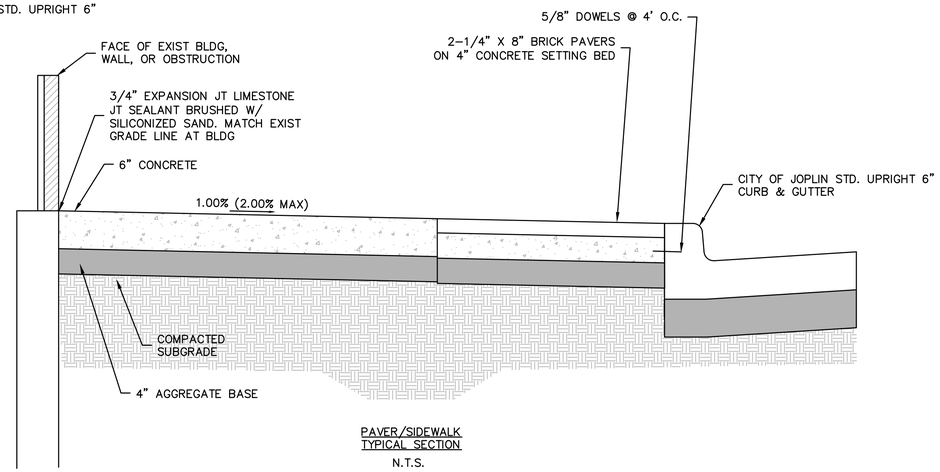


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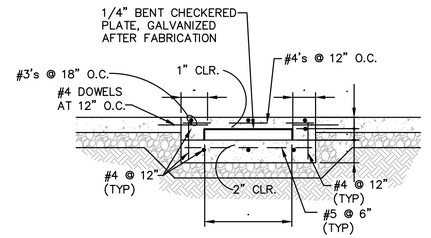

NOTE: BRICK MEASURES 4" BY 8"

PAVER BRICK PATTERN



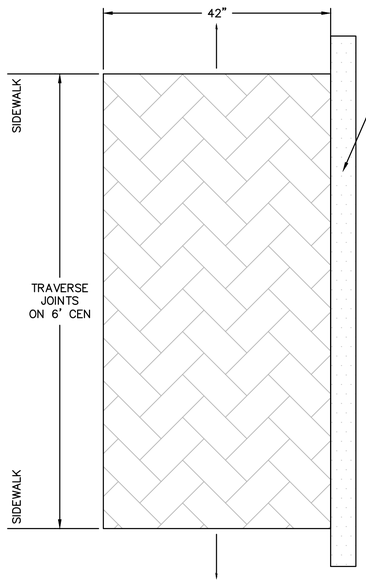

PAVER/SIDEWALK TYPICAL SECTION

N.T.S.

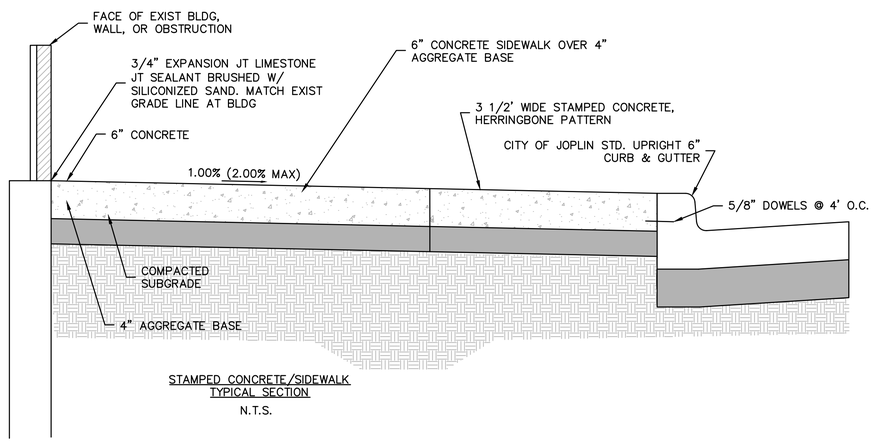



SIDEWALK STORM DRAIN ADJUSTMENT DETAIL

NOT TO SCALE




STAMPED CONCRETE PATTERN




STAMPED CONCRETE/SIDEWALK TYPICAL SECTION

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4/21/2026

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STANDARD DETAILS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2025

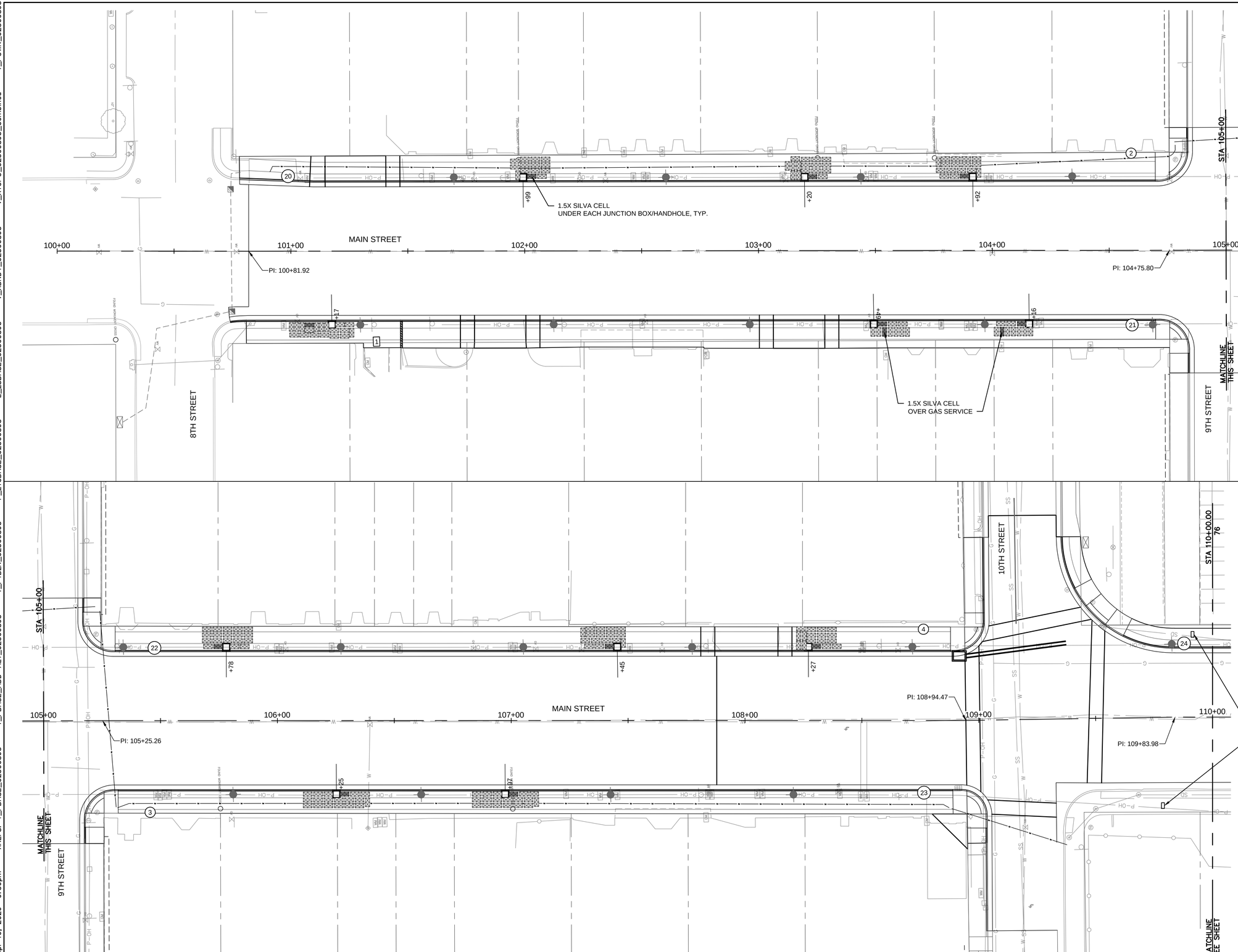
JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_DET01_02300893
date: 4.19.2026

SHEET
74 of 162

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T_PBASE_ADD-ALT_02300893 T_PTBLK_02300893 L_LSBASE_02300893 F_LTGBASE_02300893




NOTES:

1. CONTRACTOR TO COORDINATE ALL LANDSCAPE FURNITURE WITH THE CITY ENGINEER PRIOR TO FINAL INSTALLATION.
2. COORDINATE WITH ADJACENT BUSINESS EXTERIOR FOR FINAL LOCATION ADJUSTMENTS AND FIELD FITMENT.
3. SEE SHEET 78 FOR LOCATION POINT TABLE AND DETAILS
4. SILVA CELL LAYOUT USE 6" SPACING TYPICAL. SPACING CAN BE ADJUSTED IN THE FIELD AND MAY VARY BETWEEN 1" - 6"
5. SILVA CELL LAYOUTS AS SHOWN HAVE BEEN ADJUSTED TO COORDINATE WITH EXISTING UTILITIES. FIELD ADJUSTMENT MAY BE REQUIRED.

NOTE:
THE LAYOUTS OF CELLS SHOWN ON THE PLANS HAVE BEEN COORDINATED TO AVOID UTILITIES ADJACENT TO THE PROPOSED TREE WELLS. IF CONFLICTS ARISE DURING INSTALLATION, CONTRACTOR SHALL COORDINATE WITH THE CITY AND ENGINEER TO BEST FIT REMAINING CELLS IN THE AREAS.

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4/27/2026
PROFESSIONAL ENGINEER

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REVISIONS

LANDSCAPE FURNISHINGS

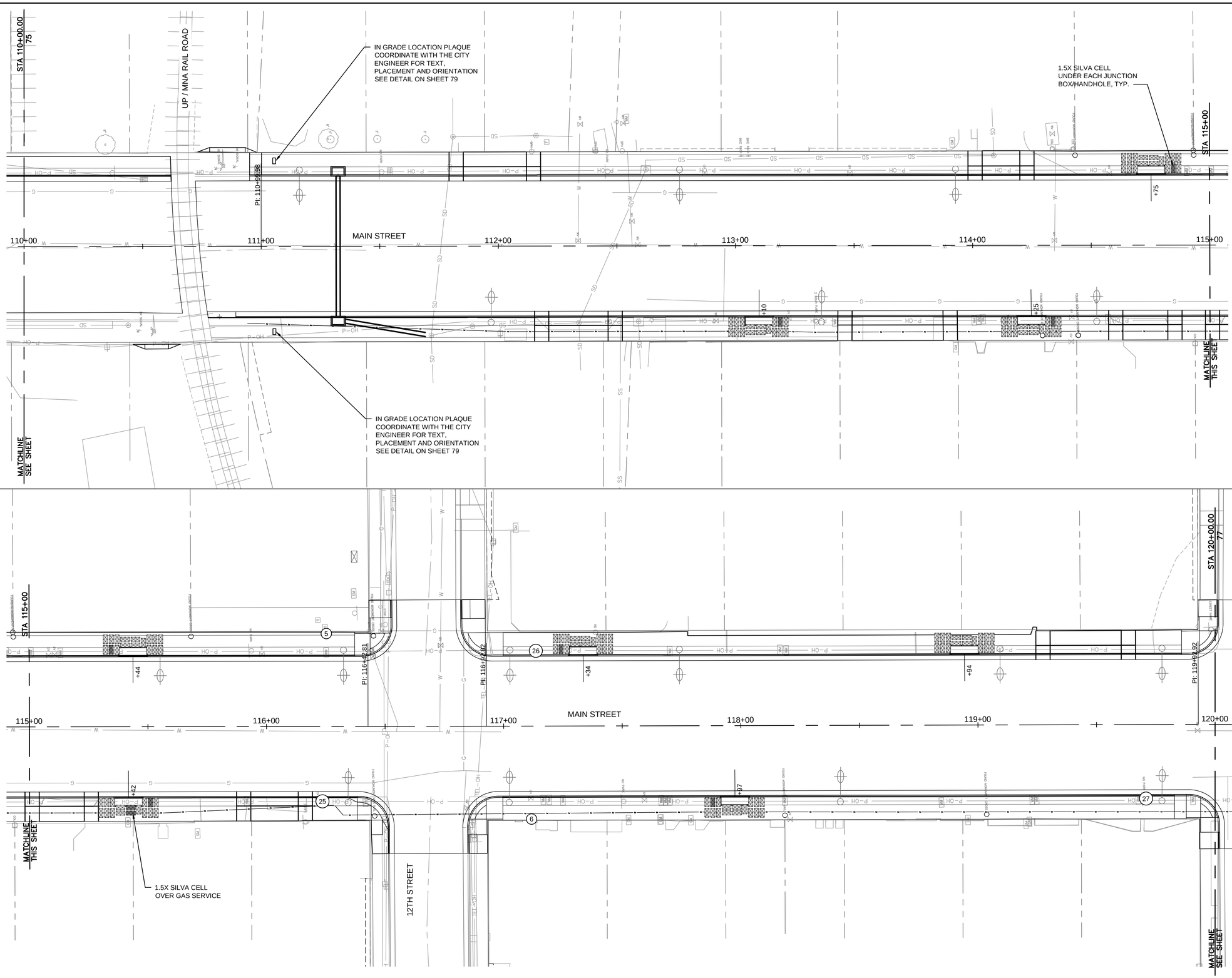
MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_LAF01_02300893
date: 4.19.2026

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N

0' 10' 20' 40'

SCALE IN FEET

NOTES:

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2X SILVA CELLS

1.5X SILVA CELLS

NOTE:
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4/27/2026

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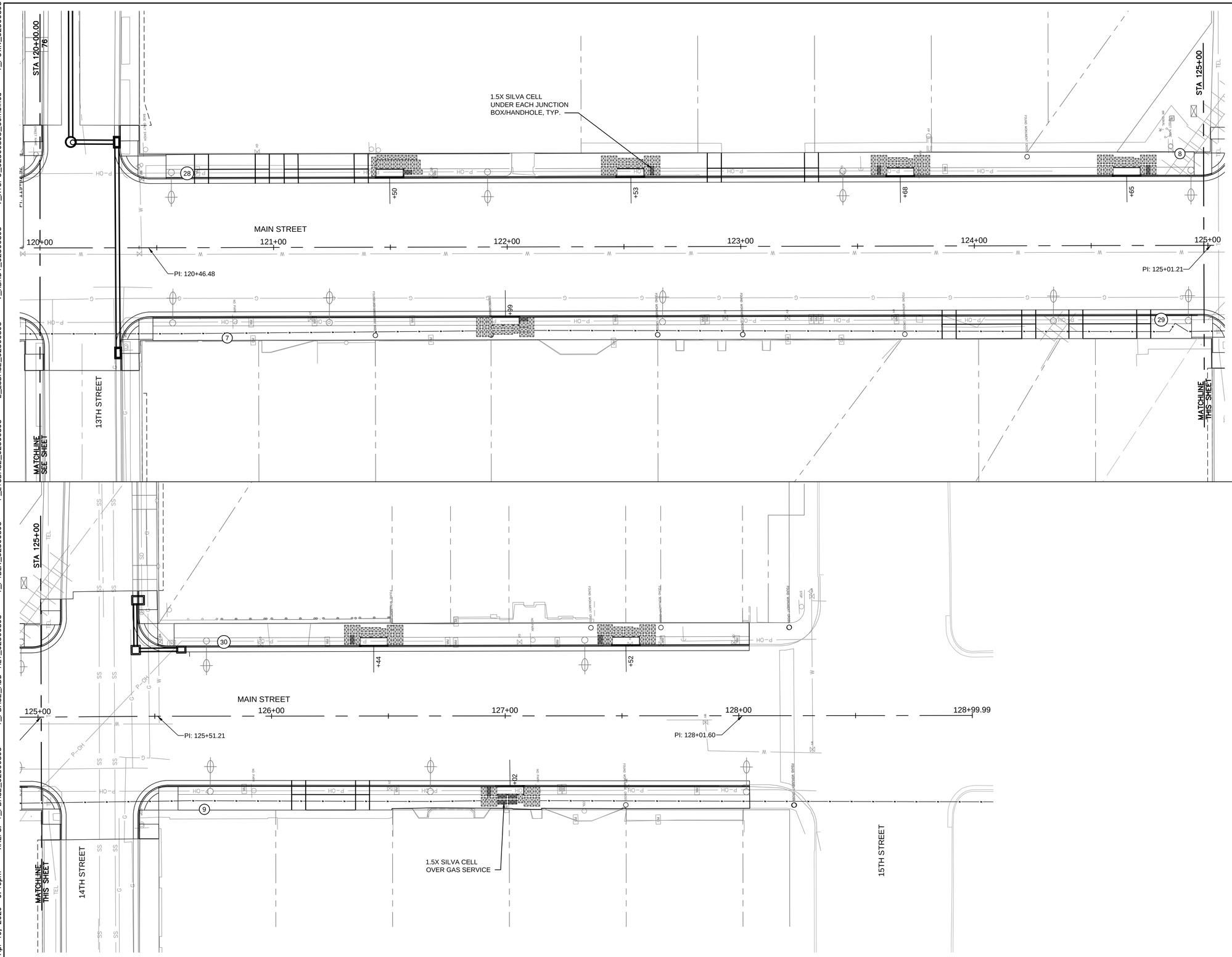
MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

drawn by: CTK/MJM
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0' 10' 20' 40'
SCALE IN FEET

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LANDSCAPE FURNISHINGS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

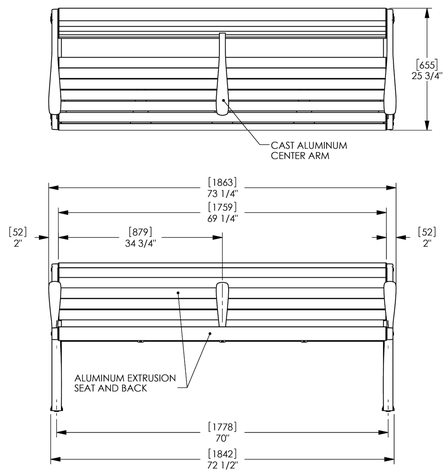
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checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_LAF01_02300893
date: 4.19.2026

Plainwell™ Bench, 72" Length, with Aluminum Seat and Center Arm, Freestanding / Surface Mount

Product Drawing

Date: 10/29/2019

www.landscapeforms.com Ph: 800.521.2546




NOTE:
FREESTANDING OR SURFACE MOUNT OPTIONS. CORROSION-RESISTANT ANCHORING HARDWARE SUPPLIED BY OTHERS. Ø13/32" HOLES WITH COUNTERBORE PROVIDED FOR SOCKET HEAD CAP SCREWS.

landscapeforms Drawing: PL271-02
Dimensions are in inches [mm]

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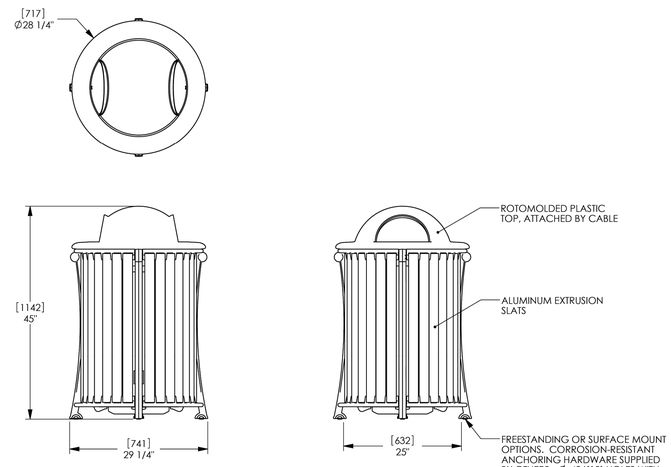
MIDTOWN BENCH

Plainwell™ Litter Receptacle, Side Opening, Aluminum Side Panel, 35 Gallon

Product Drawing

Date: 10/29/2019

www.landscapeforms.com Ph: 800.521.2546

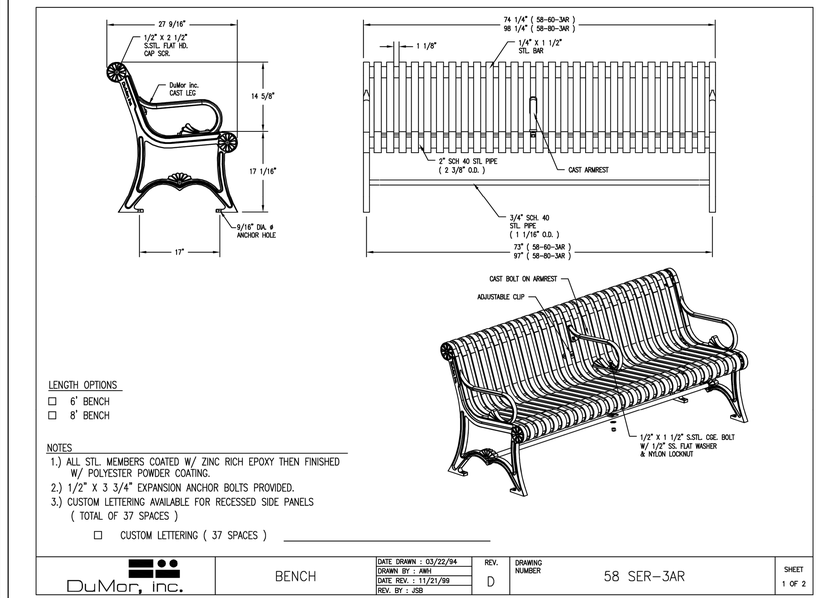



landscapeforms Drawing: PL277-01
Dimensions are in inches [mm]

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MIDTOWN TRASH
RECEPTACLE

| POINT TABLE | | | |
|---|---|---|---|
| POINT # | NORTHING | EASTING | FULL DESCRIPTION |
| 1 | 333429.3140 | 2784712.7679 | DOWNTOWN BENCH |
| 2 | 333103.7924 | 2784781.3177 | DOWNTOWN BENCH |
| 3 | 333020.6373 | 2784697.6378 | DOWNTOWN BENCH |
| 4 | 332687.2078 | 2784763.6196 | DOWNTOWN BENCH |
| 5 | 331938.7574 | 2784738.2114 | MIDTOWN BENCH |
| 6 | 331855.1621 | 2784656.7769 | MIDTOWN BENCH |
| 7 | 331486.9807 | 2784644.4908 | MIDTOWN BENCH |
| 8 | 331076.4619 | 2784708.1787 | MIDTOWN BENCH |
| 9 | 330996.2342 | 2784626.4341 | MIDTOWN BENCH |
| 20 | 333464.5002 | 2784784.9053 | DOWNTOWN TRASHCAN |
| 21 | 333106.1050 | 2784707.9143 | DOWNTOWN TRASHCAN |
| 22 | 333016.1818 | 2784767.8441 | DOWNTOWN TRASHCAN |
| 23 | 332689.5735 | 2784693.7512 | DOWNTOWN TRASHCAN |
| 24 | 332576.0490 | 2784753.4128 | DOWNTOWN TRASHCAN |
| 25 | 331943.0013 | 2784667.5380 | MIDTOWN TRASHCAN |
| 26 | 331850.7309 | 2784727.6510 | MIDTOWN TTRASHCAN |
| 27 | 331595.9172 | 2784655.8215 | MIDTOWN TRASHCAN |
| 28 | 331501.5356 | 2784715.5290 | MIDTOWN TRASHCAN |
| 29 | 331087.1271 | 2784637.4586 | MIDTOWN TRASHCAN |
| 30 | 330985.2441 | 2784697.7286 | MIDTOWN TRASHCAN |

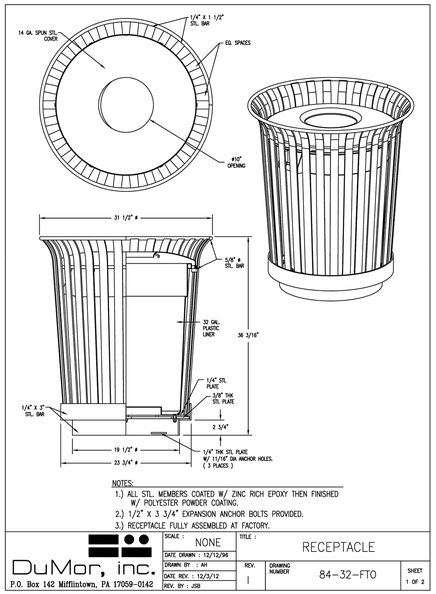



LENGTH OPTIONS
- ☐ 6' BENCH
- ☐ 8' BENCH

NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
3.) CUSTOM LETTERING AVAILABLE FOR RECESSED SIDE PANELS ( TOTAL OF 37 SPACES )
- ☐ CUSTOM LETTERING ( 37 SPACES ) _____

| DuMor, Inc. | BENCH | DATE DRAWN : 03/22/94<br>DRAWN BY : AMH<br>DATE REV. : 11/21/99<br>REV. BY : JSB | REV. D | DRAWING NUMBER 58 SER-3AR | SHEET 1 OF 2 |
|---|---|---|---|---|---|

DOWNTOWN BENCH




NOTES:
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
3.) RECEPTACLE FULLY ASSEMBLED AT FACTORY.

| DuMor, inc. P.O. Box 142 Mifflintown, PA 17059-0142 | SCALE : NONE<br>DATE DRAWN : 12/12/96<br>DRAWN BY : AH<br>DATE REV. : 12/3/12<br>REV. BY : JSB | TITLE : RECEPTACLE | REV. 1 | DRAWING NUMBER 84-32-FTO | SHEET 1 OF 2 |
|---|---|---|---|---|---|

DOWNTOWN TRASH
RECEPTACLE

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Missouri Certificate of Authority # 001592
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Joplin, MO 64801

STATE OF MISSOURI
MICHAEL J. MAYFARTH
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4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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REVISIONS

LANDSCAPE FURNISHINGS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

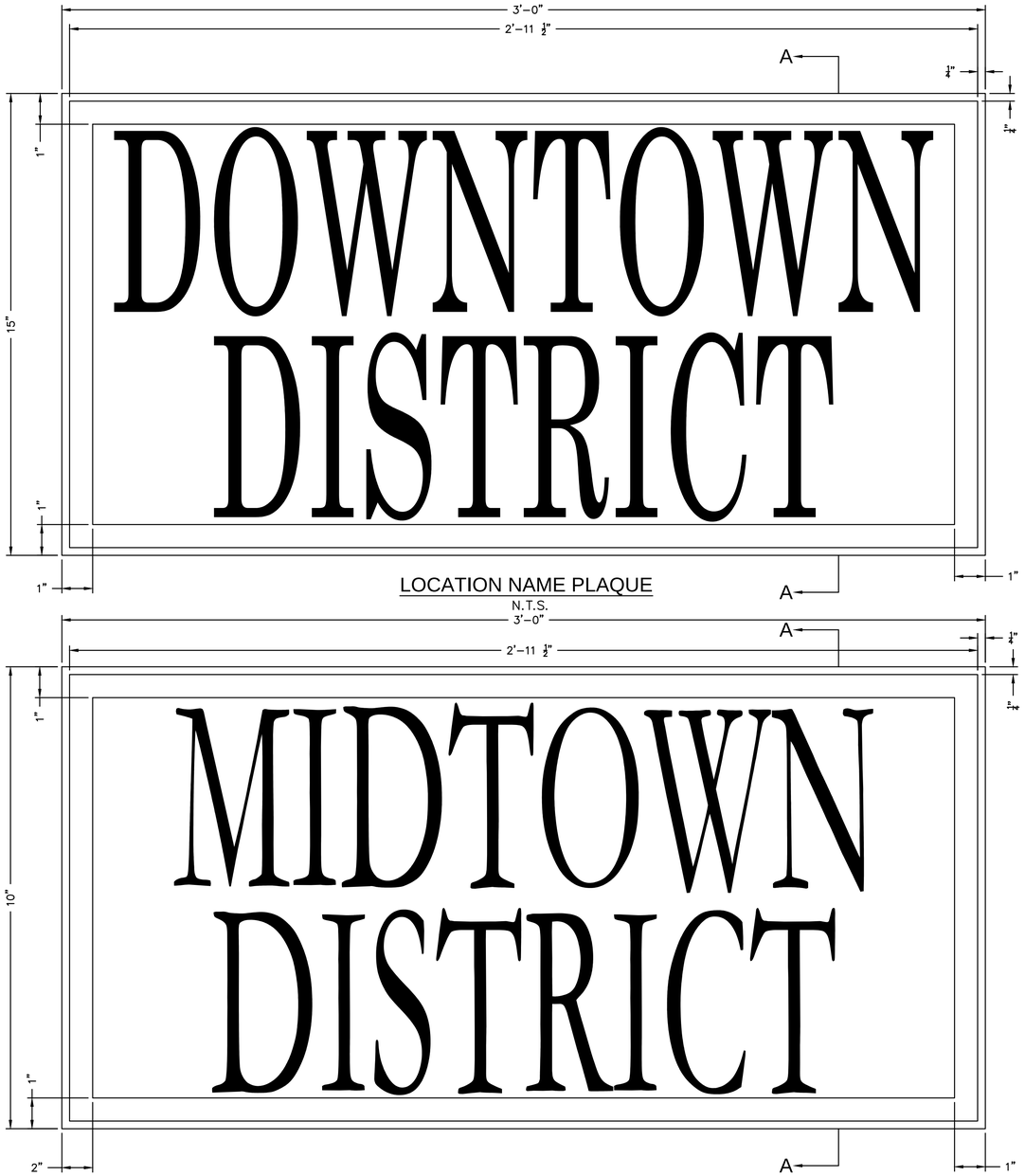
JOPLIN, MO

2025

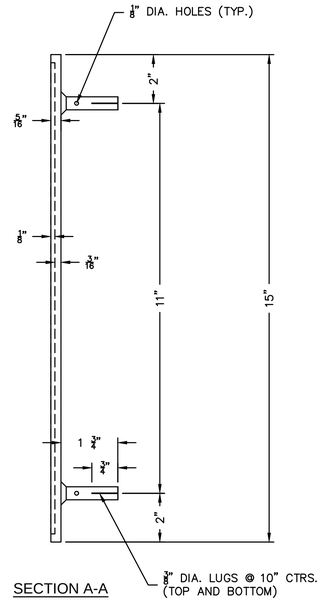
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DATE: Apr 19, 2026 9:42pm XREFS: T_PTBLK_02300893 T_PBASE_02300893 V_XTOPO_02300893_Combined




LOCATION NAME PLAQUE
N.T.S.




SECTION A-A

LOCATION NAME PLAQUE
N.T.S.

NOTES:
1. FONT AND FACE DESIGN WILL BE DETERMINED BY THE OWNER.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO MANUFACTURING PLAQUES.
3. PLAQUES SHALL BE CDA C875 SILICON BRONZE MANUFACTURED IN ACCORDANCE WITH ASTM B584.

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| | | REVISIONS | |

LANDSCAPE FURNISHINGS
LOCATION NAME PLAQUE DETAIL

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

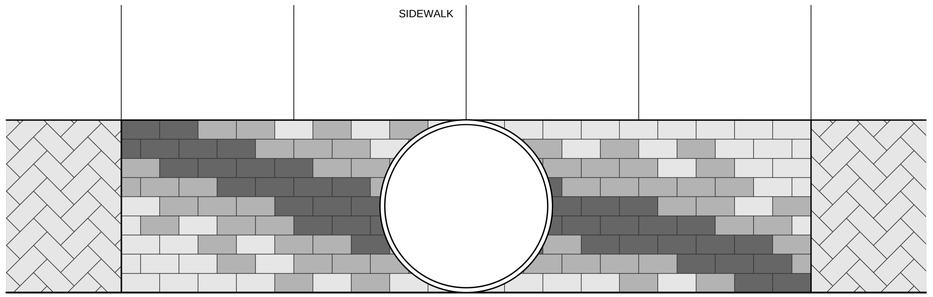
JOPLIN, MO

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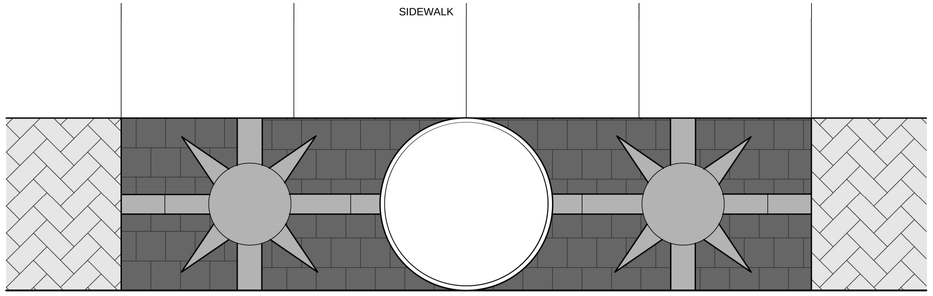
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project no.: 023-00893
drawing no.: T_DET01_02300893
date: 4.19.2026

SHEET
79 of 162

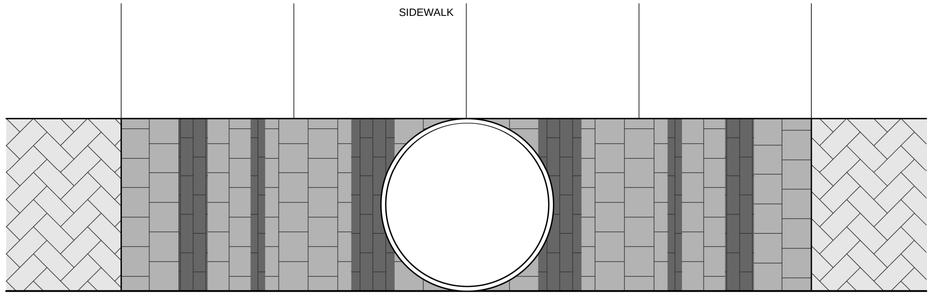
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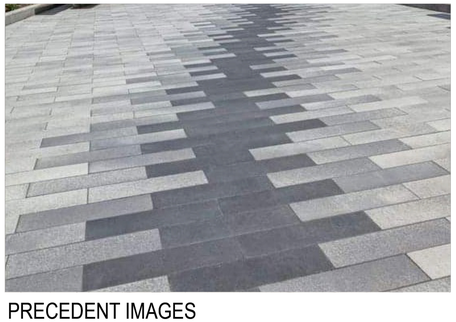

OPTION F

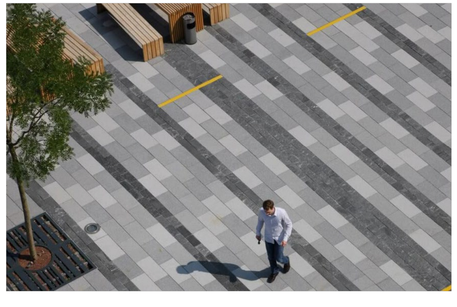



OPTION B




OPTION C





PRECEDENT IMAGES

MOSAIC PAVER LAYOUTS

"SPECIAL" DECORATIVE PLANTERS FOR MOSAIC PAVER AREA

# NEWPORT PLANTERS

| DESCRIPTION | UNIT SIZE (L X W X H, BASE L X W) MM | IN | WEIGHT LB | PRICE |
|---|---|---|---|---|
| Newport Rectangular | 1829 x 610 x 584, 457 x 1575 | 72 x 24 x 23, 18 x 62 | 490 | |



| DESCRIPTION | UNIT SIZE (D X H, BASE D) MM | IN | WEIGHT LB | PRICE |
|---|---|---|---|---|
| Newport Round | 610 x 432, 305 | 24 x 17, 12 | 100 | |
| Newport Round | 610 x 559, 305 | 24 x 22, 12 | 125 | |
| Newport Round | 610 x 762, 356 | 24 x 30, 14 | 150 | |
| Newport Round | 762 x 762, 419 | 30 x 30, 16.5 | 200 | |
| Newport Round | 914 x 559, 483 | 36 x 22, 19 | 195 | |
| Newport Round | 914 x 762, 495 | 36 x 30, 19.5 | 265 | |
| Newport Round | 1219 x 660, 673 | 48 x 26, 26.5 | 400 | |
| Newport Round | 1219 x 762, 610 | 48 x 30, 24 | 410 | |
| Newport Round | 1219 x 914, 610 | 48 x 36, 24 | 475 | |
| Newport Round | 1524 x 914, 876 | 60 x 36, 34.5 | 580 | |
| Newport Round | 1829 x 914, 1156 | 72 x 36, 45.5 | 925 | |



## ITEM "SPECIAL" DECORATIVE PLANTERS

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING, DELIVERING, APPLYING, ALL MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE DECORATIVE PLANTERS AS SPECIFIED HEREIN.

THE DECORATIVE PLANTER MATERIAL SHALL BE CONCRETE AND INCLUDE ALL FURNISHINGS, MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE PLANTER AS SPECIFIED. CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR PROPER INSTALLATION OF THE PLANTERS WITH THE WORK OF OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING TEMPLATES AND/OTHER INSTALLATION MATERIAL FROM MANUFACTURER TO INSURE PROPER INSTALLATION.

THE PLANTER SHALL BE BARKMAN CONCRETE NEWPORT PLANTER. 36"W.x30"HT. MODEL NUMBER #105418. 2" DRAIN HOLE SHALL BE PROVIDED IN CENTER OF PLANTER, OR APPROVED EQUAL. COLOR TO MATCH EXISTING STREETSCAPE PLANTERS. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT THE MANUFACTURERS SHOP DRAWINGS FOR THIS ITEM TO THE CITY FOR APPROVAL PRIOR TO ORDERING THE PLANTERS.

PAYMENT OF ITEM "SPECIAL" DECORATIVE PLANTER, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

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TEL 417.781.0643
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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

STANDARD DETAILS
MOSAIC PAVER LAYOUTS & DECORATIVE PLANTER

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

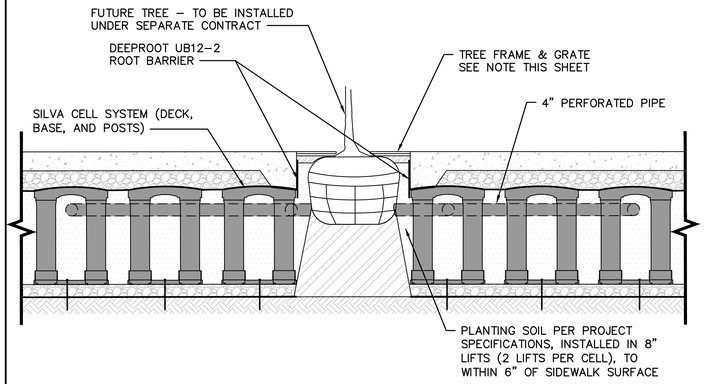
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.:
date: 4.19.2026

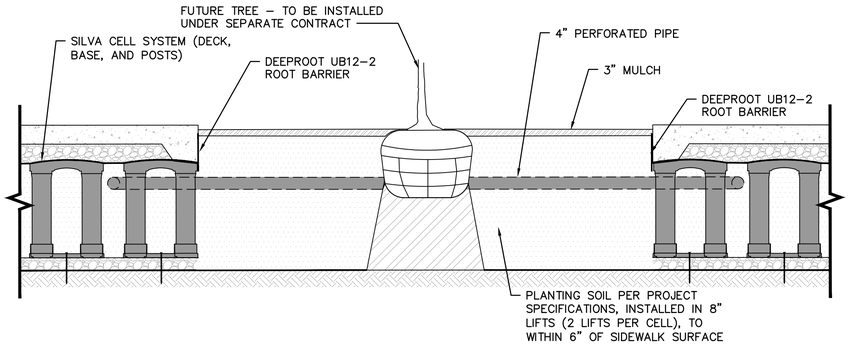


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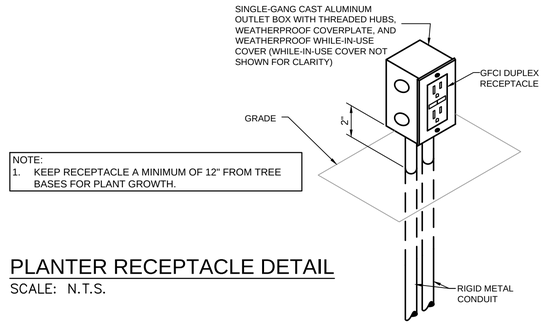

## SECTION B-B

EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE




## SECTION D-D

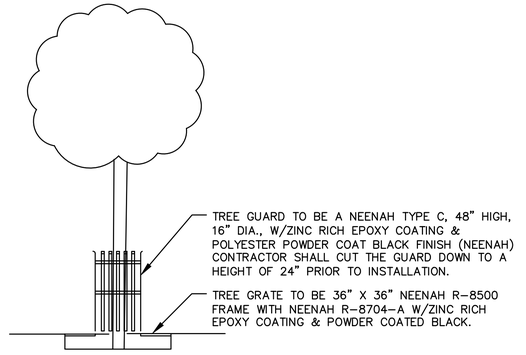
EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE




NOTE:
1. KEEP RECEPTACLE A MINIMUM OF 12" FROM TREE BASES FOR PLANT GROWTH.

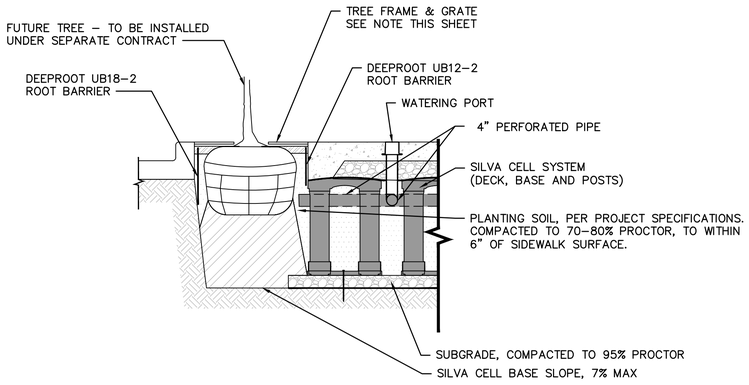
## PLANTER RECEPTACLE DETAIL

SCALE: N.T.S.



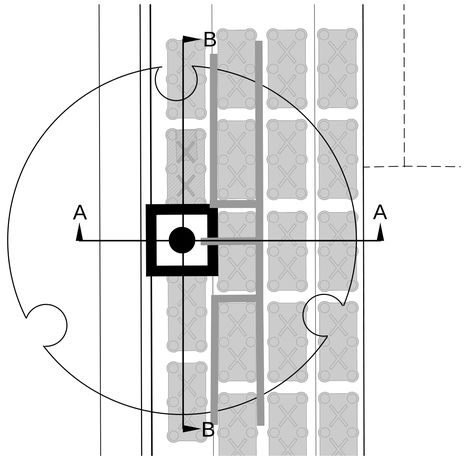

## TREE GRATE/TREE GUARD - DOWNTOWN

SCALE: N.T.S.




## SECTION A-A

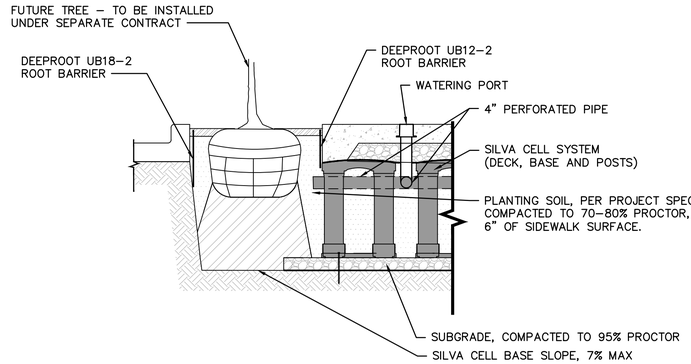
EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE




PLAN

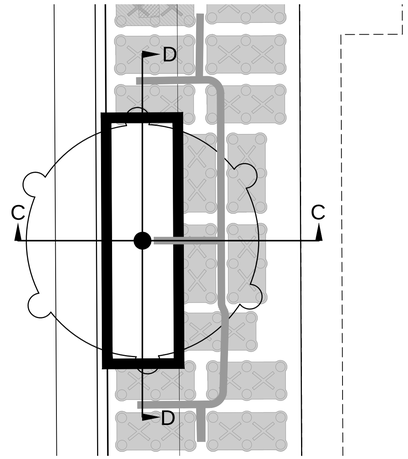
## DECIDUOUS TREE PLANTING IN SILVA CELL DETAIL - DOWNTOWN

SCALE: N.T.S. EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE




## SECTION C-C

EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE




PLAN

## DECIDUOUS TREE PLANTING IN SILVA CELL DETAIL - MIDTOWN

SCALE: N.T.S. EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE

### ITEM "SPECIAL" TREE GUARD, 48" HIGH, 16" DIAMETER, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING, DELIVERING, APPLYING, ALL MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE TREE GUARD AS INDICATED AND SPECIFIED.

THE TREE GUARD MATERIALS SHALL BE, CAST FRAMES, GRATES, AND FASTENERS PER NEENAH SPECIFICATIONS, PROVIDE ALL FURNISHINGS, MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE TREE GUARD AS INDICATED AND SPECIFIED. CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR PROPER INSTALLATION OF TREE GUARD WITH THE WORK OF OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING TEMPLATES AND/OTHER INSTALLATION MATERIALS FROM MANUFACTURER TO INSURE PROPER INSTALLATION.

THE TREE GUARD SHALL BE A NEENAH TYPE C, 48" HIGH, 16" DIAMETER WITH ZINC RICH EPOXY COATING AND POLYESTER POWDER COATED BLACK FINISH, OR APPROVED EQUAL.THE CONTRACTOR SHALL SUBMIT THE MANUFACTURERS SHOP DRAWINGS FOR THIS ITEM TO THE CITY FOR APPROVAL PRIOR TO ORDERING THE GUARD.

PAYMENT OF ITEM "SPECIAL" TREE GUARD, 48" HIGH, AS PER PLANS, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM "SPECIAL" TREE GUARD AND ITEM "SPECIAL" TREE GRATE AND FRAME WILL BE BID TOGETHER AS ONE BID ITEM.

### ITEM "SPECIAL" TREE GRATE, 36", AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING, DELIVERING, APPLYING, ALL MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE TREE FRAME AND GRATE AS INDICATED AND SPECIFIED.

THE TREE FRAME AND GRATE MATERIALS SHALL BE, CAST FRAMES, GRATES, AND FASTENERS PROVIDE ALL FURNISHINGS, MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE TREE GRATE AS INDICATED AND SPECIFIED. CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR PROPER INSTALLATION OF TREE GRATES WITH THE WORK OF OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING TEMPLATES AND/OTHER INSTALLATION MATERIALS FROM MANUFACTURER TO INSURE PROPER INSTALLATION.

THE TREE GRATE FRAME SHALL BE A NEENAH R–8500 WITH A ZINC RICH EPOXY COATING AND POLYESTER POWDER COATED BLACK FINISH, OR APPROVED EQUAL. THE TREE GRATE SHALL BE A NEENAH R–8704–A W/LIGHT OPENINGS, WITH A ZINC RICH EPOXY COATING AND POLYESTER POWDER COATED BLACK FINISH, OR APPROVED EQUAL. THE CONTRACTOR SHALL SUBMIT THE MANUFACTURERS SHOP DRAWINGS FOR THIS ITEM TO THE CITY FOR APPROVAL PRIOR TO ORDERING THE PLANTERS.

PAYMENT OF ITEM "SPECIAL" TREE GRATE, 36" SQUARE, AS PER PLANS, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

LANDSCAPE DETAILS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

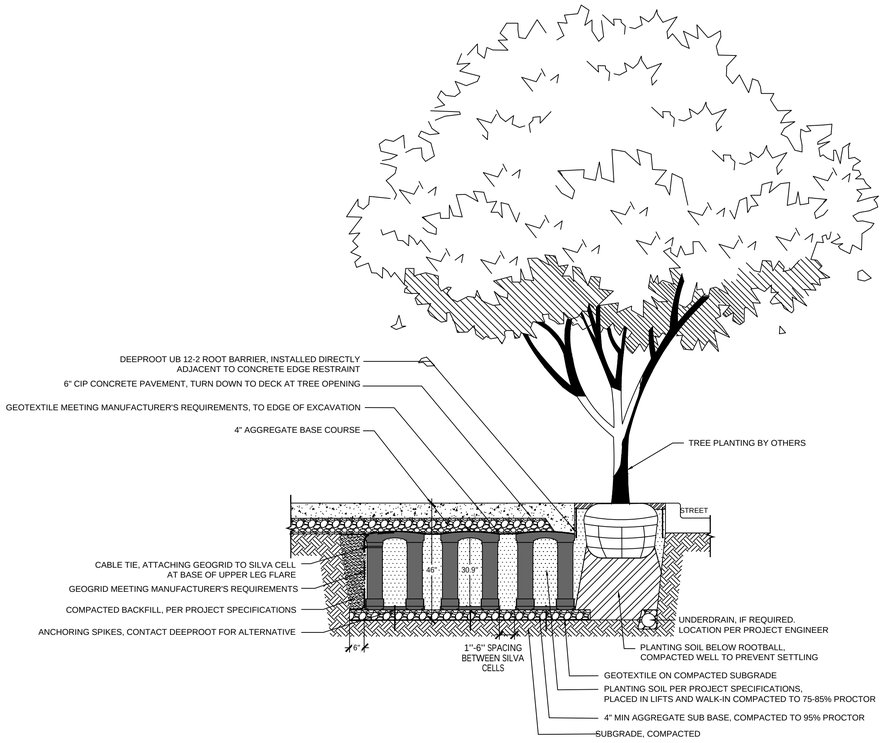
2025

JOPLIN, MO

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: L_DTL_02300893
date: 4.19.2026

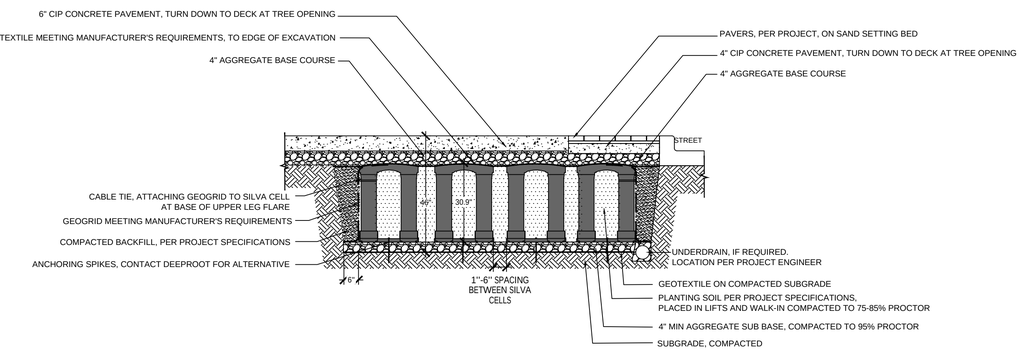
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1 SILVA CELLS AT TREE OPENING

NTS




2 PAVEMENT TRANSITION OVER SILVA CELLS

NTS

DISCLAIMER:
Silva Cell 2 layouts are preliminary, and are based on the accuracy of the provided base information. Layouts use 6" spacing by default. Spacing between Silva Cells can vary between 1-6". Field adjustment may be required.

Client/Contractor is responsible for verifying location of structures and utilities that may be in conflict with this proposed Silva Cell 2 layout. When determining size of excavation, allow space for Cells, spacing between frames, and backfill.

**DeepRoot Green Infrastructure, LLC**
www.deeproot.com
info@deeproot.com
Toll Free: 800 458 7668

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4/21/2026

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

LANDSCAPE DETAILS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

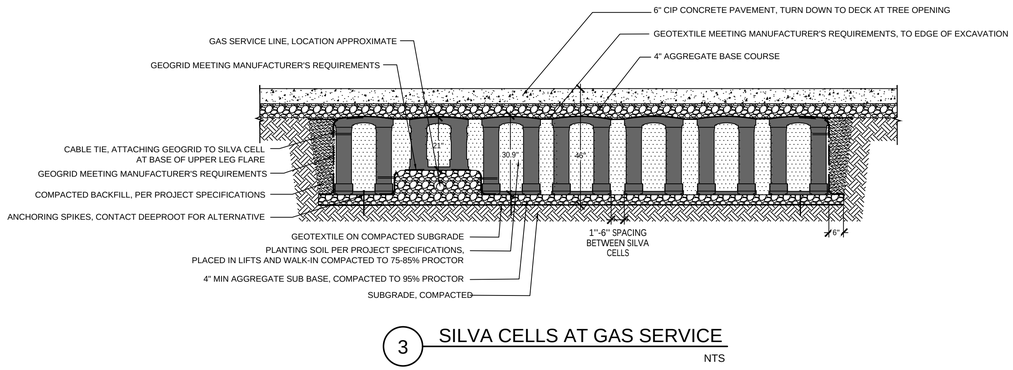
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: SIL-DTL01_02300893
date: 4.19.2026

SHEET
82 of 162

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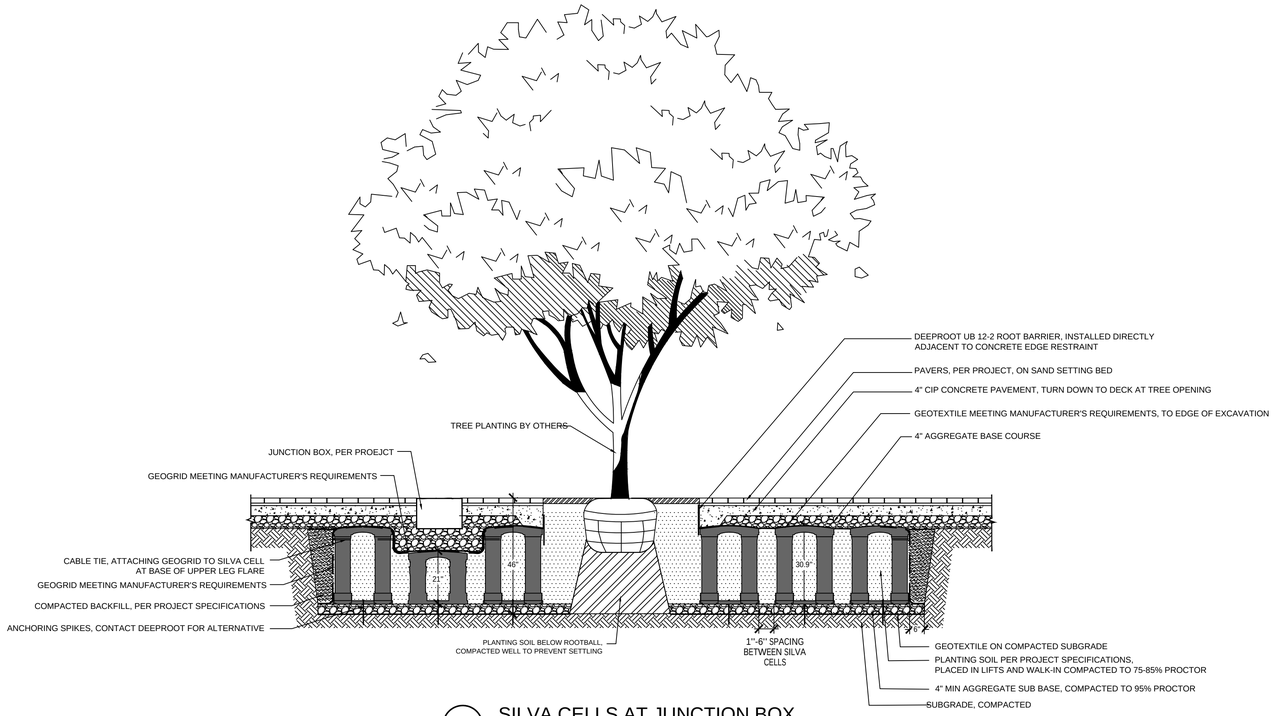

3 SILVA CELLS AT GAS SERVICE

NTS

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Client/Contractor is responsible for verifying location of structures and utilities that may be in conflict with this proposed Silva Cell 2 layout. When determining size of excavation, allow space for Cells, spacing between frames, and backfill.




4 SILVA CELLS AT JUNCTION BOX

NTS

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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

LANDSCAPE DETAILS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

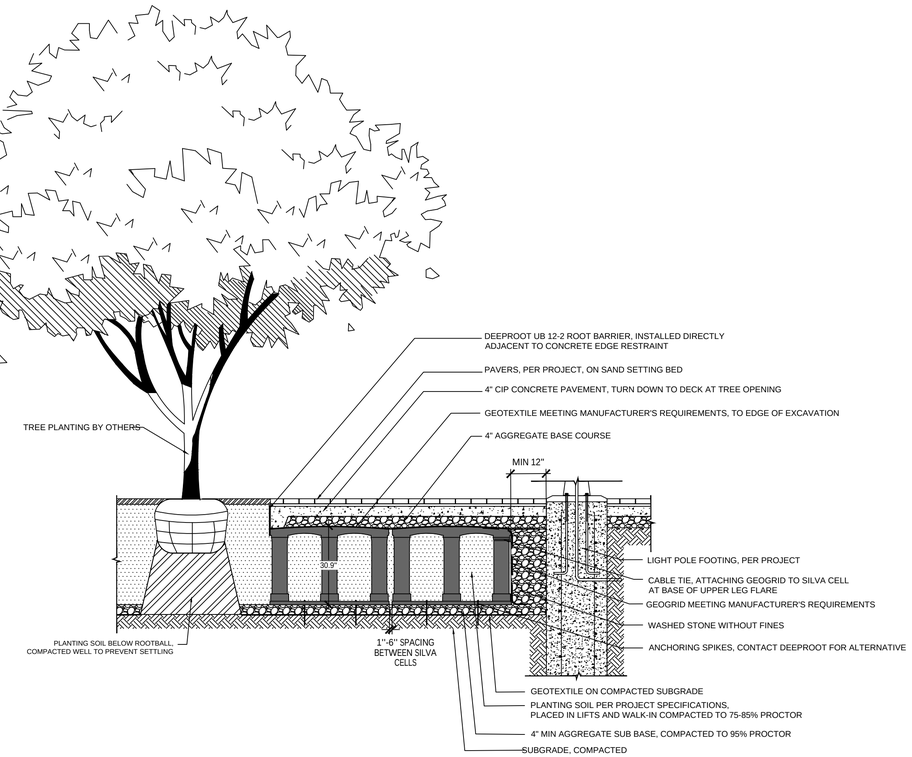
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: SIL-DTL01_02300893
date: 4.19.2026

SHEET
83 of 162

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DATE: Apr 19, 2026 9:45pm XREFS: T_PTBLK_02300893




5 SILVA CELLS ADJACENT TO LIGHT POLE FOOTING

NTS

DISCLAIMER:
Silva Cell 2 layouts are preliminary, and are based on the accuracy of the provided base information. Layouts use 6" spacing by default. Spacing between Silva Cells can vary between 1-6". Field adjustment may be required.

Client/Contractor is responsible for verifying location of structures and utilities that may be in conflict with this proposed Silva Cell 2 layout. When determining size of excavation, allow space for Cells, spacing between frames, and backfill.

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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/21/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

LANDSCAPE DETAILS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

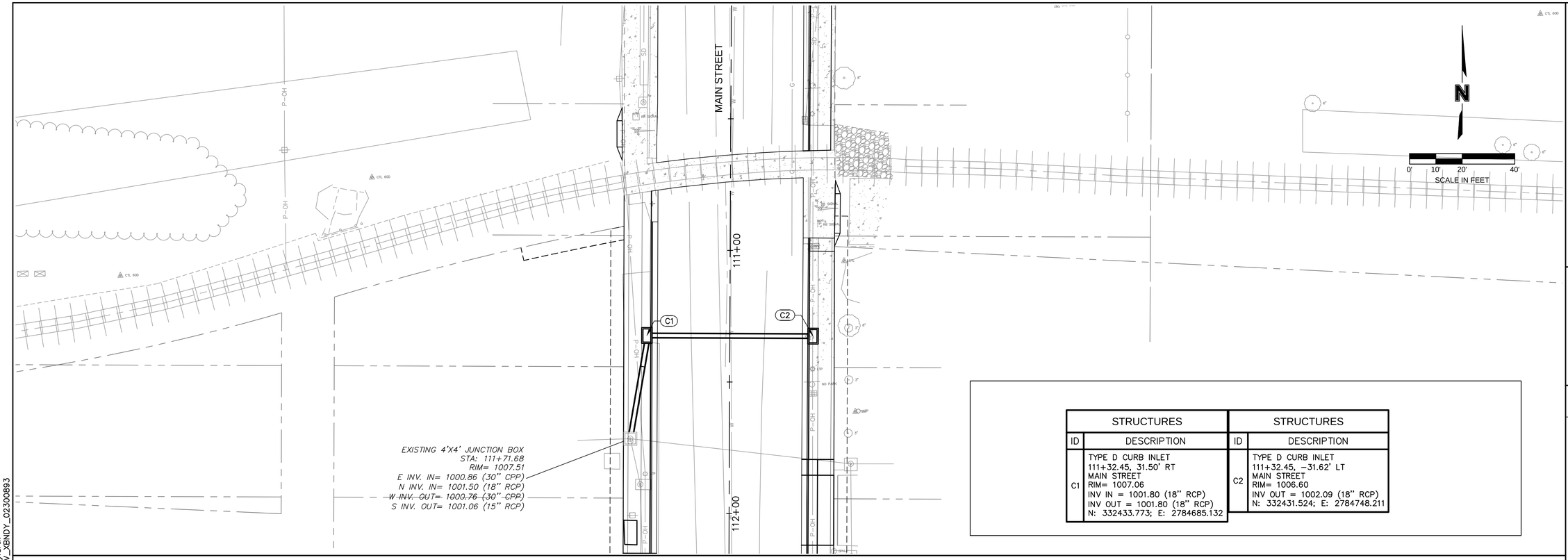
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: SIL-DTL01_02300893
date: 4.19.2026

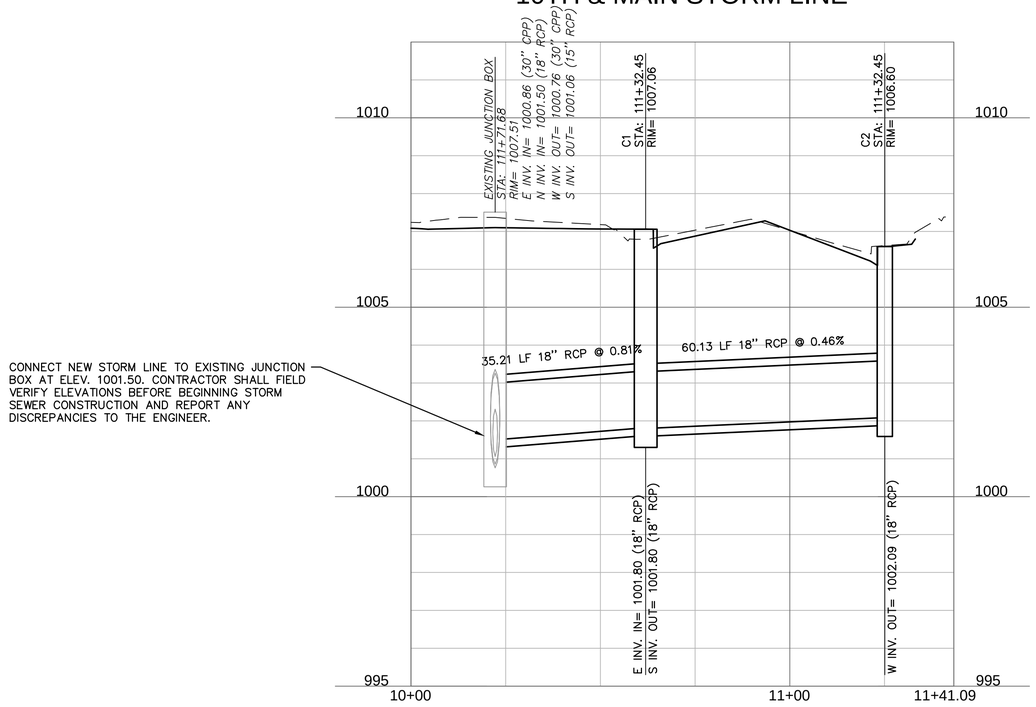
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DATE: Apr 19, 2026 9:45pm XREFS: T_PTBLK_02300893




| STRUCTURES | | STRUCTURES | |
|---|---|---|---|
| ID | DESCRIPTION | ID | DESCRIPTION |
| C1 | TYPE D CURB INLET<br>111+32.45, 31.50' RT<br>MAIN STREET<br>RIM= 1007.06<br>INV IN = 1001.80 (18" RCP)<br>INV OUT = 1001.80 (18" RCP)<br>N: 332433.773; E: 2784685.132 | C2 | TYPE D CURB INLET<br>111+32.45, −31.62' LT<br>MAIN STREET<br>RIM= 1006.60<br>INV OUT = 1002.09 (18" RCP)<br>N: 332431.524; E: 2784748.211 |

# 10TH & MAIN STORM LINE




CONNECT NEW STORM LINE TO EXISTING JUNCTION BOX AT ELEV. 1001.50. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS BEFORE BEGINNING STORM SEWER CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

NOTE:
RIM ELEVATIONS SHOWN ARE TO THE TOP OF THE CURB.

0' 1' 2' 4'
SCALE IN FEET

0' 10' 20' 40'
SCALE IN FEET

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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/21/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

STORM SEWER PLAN AND PROFILE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

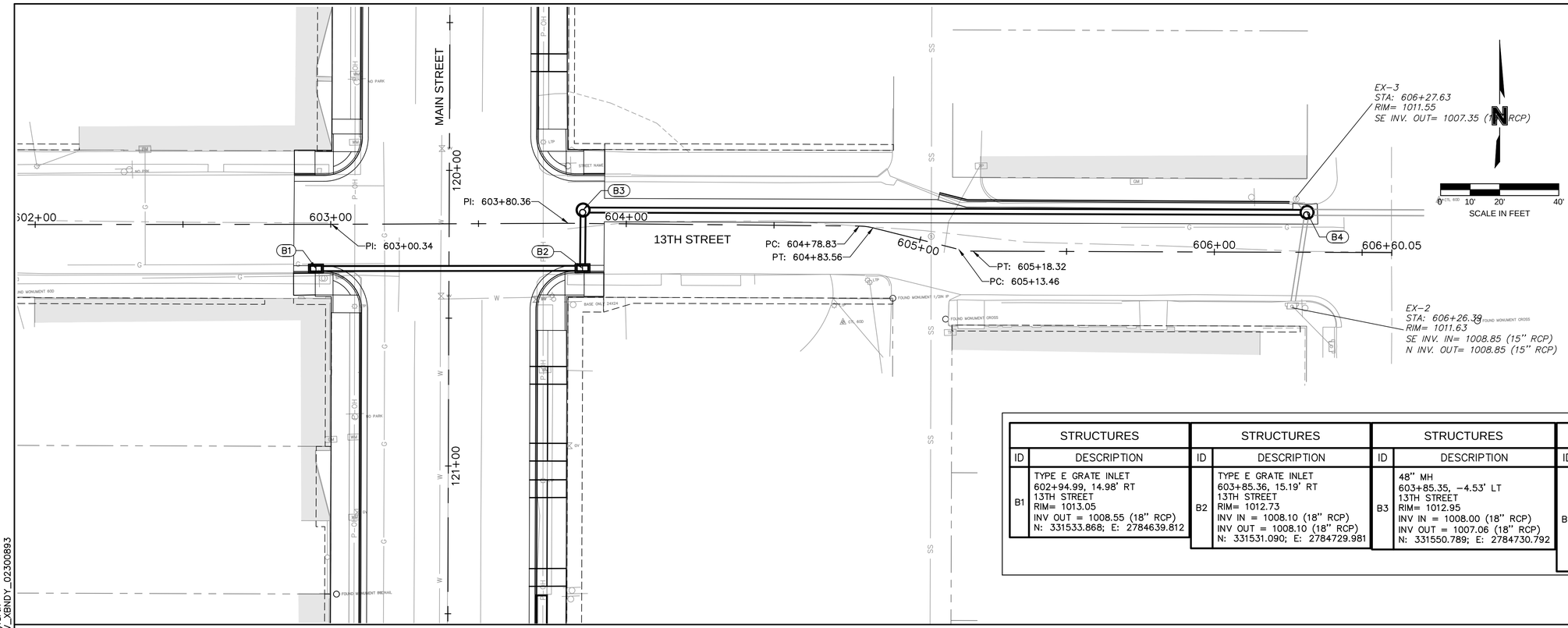
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_STM01_02300893
date: 4.19.2026

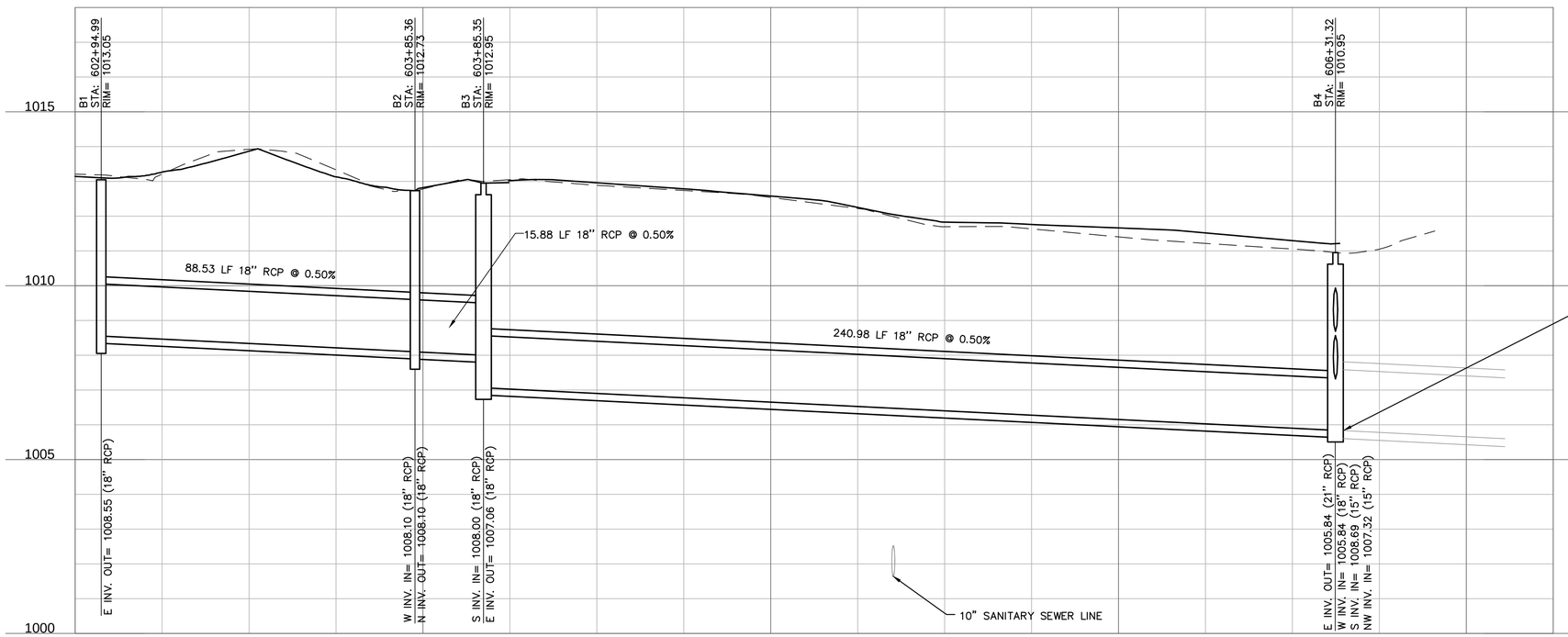


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| STRUCTURES | | STRUCTURES | | STRUCTURES | | STRUCTURES | |
|---|---|---|---|---|---|---|---|
| ID | DESCRIPTION | ID | DESCRIPTION | ID | DESCRIPTION | ID | DESCRIPTION |
| B1 | TYPE E GRATE INLET<br>602+94.99, 14.98' RT<br>13TH STREET<br>RIM= 1013.05<br>INV OUT = 1008.55 (18" RCP)<br>N: 331533.868; E: 2784639.812 | B2 | TYPE E GRATE INLET<br>603+85.36, 15.19' RT<br>13TH STREET<br>RIM= 1012.73<br>INV IN = 1008.10 (18" RCP)<br>INV OUT = 1008.10 (18" RCP)<br>N: 331531.090; E: 2784729.981 | B3 | 48" MH<br>603+85.35, -4.53' LT<br>13TH STREET<br>RIM= 1012.95<br>INV IN = 1008.00 (18" RCP)<br>INV OUT = 1007.06 (18" RCP)<br>N: 331550.789; E: 2784730.792 | B4 | 48" MH<br>606+31.32, -13.50' LT<br>13TH STREET<br>RIM= 1010.95<br>INV IN = 1005.84 (18" RCP)<br>INV IN = 1008.69 (15" RCP)<br>INV IN = 1007.32 (15" RCP)<br>INV OUT = 1005.84 (21" RCP)<br>N: 331542.198; E: 2784975.608 |

# 13TH & MAIN STORM LINE




NOTES:
RIM ELEVATIONS SHOWN ARE TO THE TOP OF THE CURB FOR INLETS.

UTILITY DEPTHS UNKNOWN. CONTRACTOR TO FIELD VERIFY. APPROXIMATE DEPTH PROVIDED.

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Missouri Certificate of Authority # 001592
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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

STORM SEWER PLAN AND PROFILE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

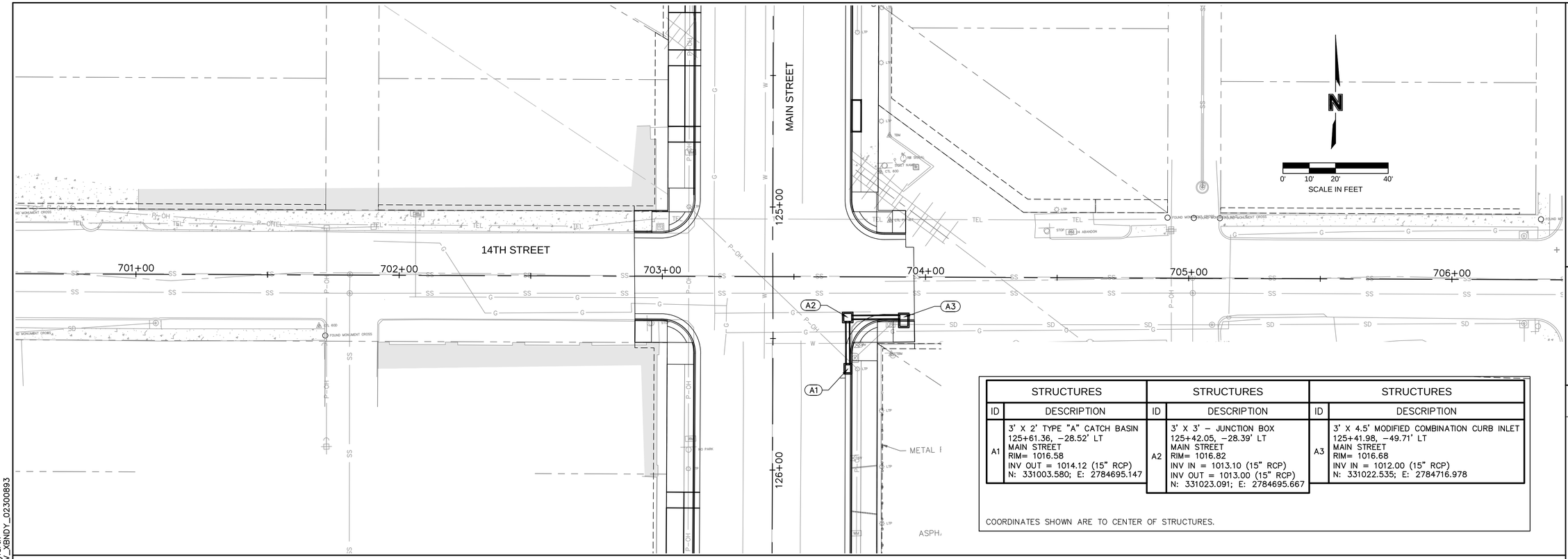
JOPLIN, MO

2025

drawn by: CTK/MJM
checked by: MJM
approved by: JWP
QA/QC by: JWP
project no.: 023-00893
drawing no.: T_STM01_02300893
date: 4.19.2026

SHEET
86 of 162

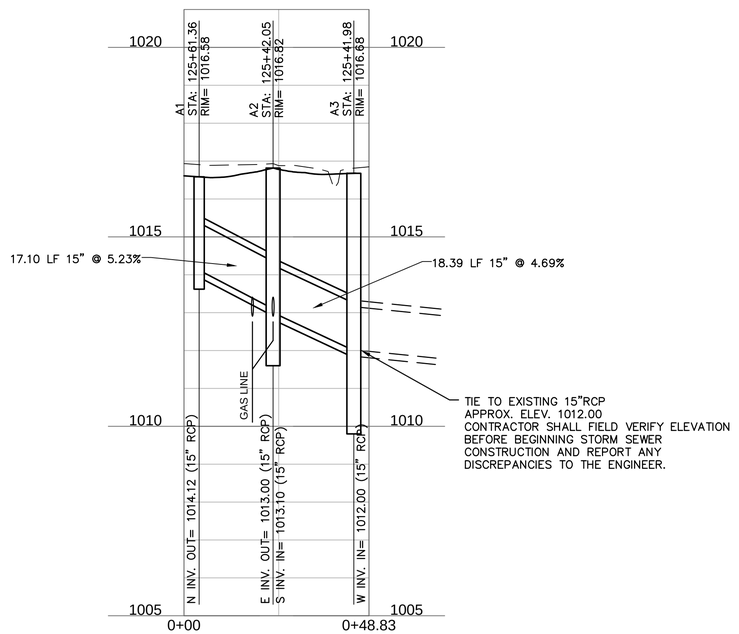
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DATE: Apr 19, 2026 9:47pm XREFS: T_PTBLK_02300893 T_PBASE_02300893 V_XTOPO_02300893_Combined V_XBNDY_02300893




| STRUCTURES | | STRUCTURES | | STRUCTURES | |
|---|---|---|---|---|---|
| ID | DESCRIPTION | ID | DESCRIPTION | ID | DESCRIPTION |
| A1 | 3' X 2' TYPE "A" CATCH BASIN<br>125+61.36, −28.52' LT<br>MAIN STREET<br>RIM= 1016.58<br>INV OUT = 1014.12 (15" RCP)<br>N: 331003.580; E: 2784695.147 | A2 | 3' X 3' – JUNCTION BOX<br>125+42.05, −28.39' LT<br>MAIN STREET<br>RIM= 1016.82<br>INV IN = 1013.10 (15" RCP)<br>INV OUT = 1013.00 (15" RCP)<br>N: 331023.091; E: 2784695.667 | A3 | 3' X 4.5' MODIFIED COMBINATION CURB INLET<br>125+41.98, −49.71' LT<br>MAIN STREET<br>RIM= 1016.68<br>INV IN = 1012.00 (15" RCP)<br>N: 331022.535; E: 2784716.978 |

COORDINATES SHOWN ARE TO CENTER OF STRUCTURES.

## STORM A




NOTES:
RIM ELEVATIONS SHOWN ARE TO THE TOP OF THE CURB.

UTILITY DEPTHS UNKNOWN.
CONTRACTOR TO FIELD VERIFY.
APPROXIMATE DEPTH PROVIDED.

0' 10' 20' 40'
SCALE IN FEET

0' 1' 2' 4'
SCALE IN FEET


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STORM SEWER PLAN AND PROFILE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

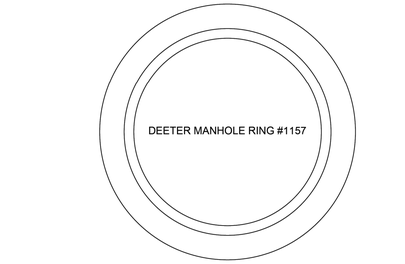
JOPLIN, MO

2025

| | |
|---|---|
| drawn by: | CTK/MJM |
| checked by: | MJM |
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DATE: Apr 19, 2026 9:48pm XREFS: T_PTBLK_02300893 T_PBASE_02300893 V_XTOPO_02300893_Combined V_XBNDY_02300893




NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.
2. RING IS REVERSIBLE AND CAN BE INSTALLED WITH FLANGE UP OR DOWN.

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT
WEIGHT: 115 LBS.

DEETER FOUNDRY, INC.
5945 NORTH 70TH STREET
LINCOLN, NEBRASKA 68529

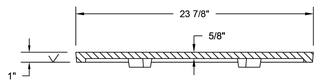
#1157 MANHOLE RING

| CITY OF JOPLIN | CITY OF JOPLIN, MO | CKD BY: JOHNSON | PROJECT |
|---|---|---|---|
| | PUBLIC WORKS DEPT | DATE: 10/2017 | DEEP MH RING & COVER |
| | ENGINEERING DIVISION | ENGINEER: HERTZBERG | |
| | 602 S MAIN ST 64801 | FILE: DEEP MH R & C | |

IN PLACE OF THE DEETER FRAME SHOWN ABOVE THE FOLLOWING MAY BE USED:
NEENAH R-1706-1 FRAME OR
EJ 2416Z FRAME
OR ANOTHER APPROVED EQUAL.

DEETER FOUNDRY
2018-A COVER

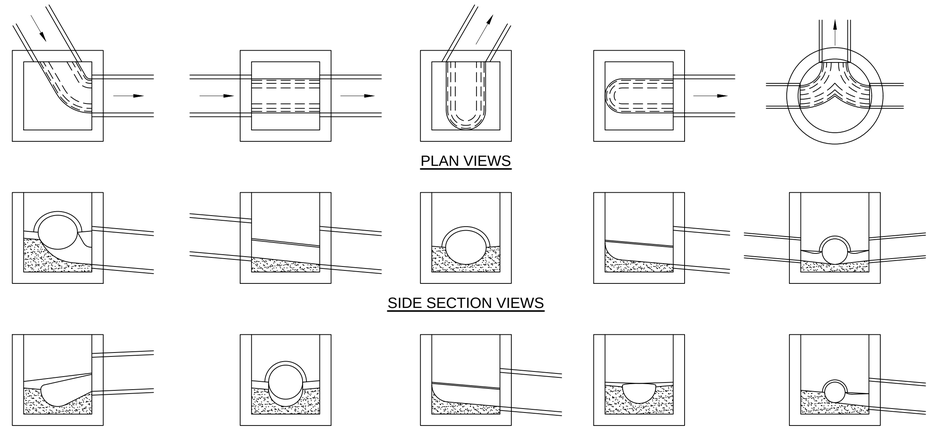



NOTE: DEETER FOUNDRY DF-2018-A WITH CITY OF JOPLIN STENCILING OR EQUIVALENT

| CITY OF JOPLIN | CITY OF JOPLIN, MO | CKD BY: JOHNSON | PROJECT |
|---|---|---|---|
| | PUBLIC WORKS DEPT | DATE: 10/2017 | STANDARD STORM MH LID |
| | ENGINEERING DIVISION | ENGINEER: HERTZBERG | |
| | 602 S MAIN ST 64801 | FILE: STORM LID | |

IN PLACE OF THE DEETER LID SHOWN ABOVE THE FOLLOWING MAY BE USED:
NEENAH R-17060012 LID
EJ 2408C LID
OR ANOTHER APPROVED EQUAL.



PLAN VIEWS

SIDE SECTION VIEWS

END SECTION VIEWS

TYPICAL GROUTED INVERTS
N.T.S.

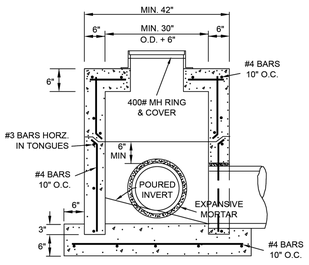
GROUTED INVERTS GENERAL NOTES:
1. THE CONCRETE FOR INVERTS SHALL BE PLACED AFTER COMPLETION OF THE INLET, MANHOLE, OR JUNCTION BOX.
2. NO DIRECT PAYMENT WILL BE MADE FOR FURNISHING OR PLACING INVERT CONCRETE.
3. MINIMUM OF 4" OF NON-SHRINK CONCRETE GROUT BELOW INVERT OUT ELEVATION.

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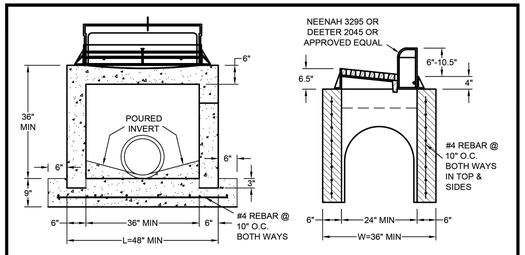
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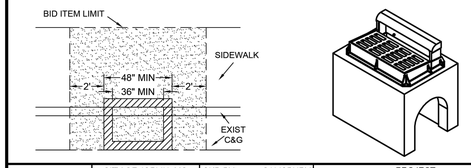

CONC JNCT BOX W/ MH RING & COVER
N.T.S.

| CITY OF JOPLIN | CITY OF JOPLIN, MO | CKD BY: SALISBURY | PROJECT |
|---|---|---|---|
| | PUBLIC WORKS DEPT | DATE: 8/2015 | CONC JUNCT BOX W/ MH RING & COVER |
| | ENGINEERING DIVISION | ENGINEER: HEATHERLY | |
| | 602 S MAIN ST 64801 | FILE: MHBOX | |



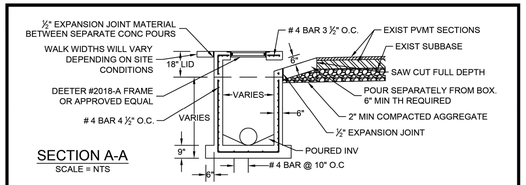

SINGLE PRE-CAST TYPE 'A' CATCH BASIN
N.T.S.
FINISH: BLACK EPOXY

NOTES:
1. BOTTOM OF INLET SHALL BE 9" TH W/ #4 REBAR SPACED 10" OC BOTH WAYS.
2. FLOOR OF INLET SHALL BE SHAPED W/ INV TO PROVIDE SMOOTH FLOW.
3. STEPS ARE NOT ALLOWED.
4. BEVEL ALL EXPOSED EDGES W/ 3/4" CHAMFER OR 1/2" TOOLED EDGE.
5. THE SUM OF "L" & "W" SHALL NOT EXCEED 14' WITHOUT SPECIAL DESIGN.
6. ALL GUTTER CONST IN FRONT OF INLET, ALL C&G IN CURB REPAIRS OR REPLACEMENTS & ALL SIDEWALK CONST AROUND INLET SHALL BE INCLUDED IN THE BID PRICE OF THE INLET.
7. SAW CUT & REPL AN EXTRA 2' OF CURB ON BOTH SIDES WHEN CONST IN EXIST CURB.
8. ALL POURED CONCRETE SHALL BE CLASS 'B'.
9. EDGE OF BOX SHALL BE A MINIMUM OF 15' FROM CURB RADIUS PC.



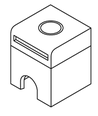



| CITY OF JOPLIN | CITY OF JOPLIN, MO | CKD BY: SALISBURY | PROJECT |
|---|---|---|---|
| | PUBLIC WORKS DEPT | DATE: 8/2015 | TYPE 'A' CATCH BASIN |
| | ENGINEERING DIVISION | ENGINEER: HEATHERLY | |
| | 602 S MAIN ST 64801 | FILE: TYPEACATCHBASIN | |

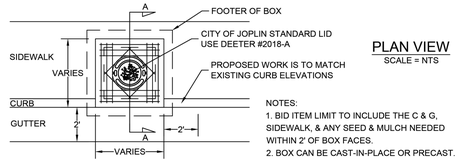



SECTION A-A
SCALE = NTS

TYPE 'C' CURB INLET
N.T.S.



INLET NOTES:
1. BOTTOM OF INLET SHALL BE 9" TH WITH #4 REBAR SPACED 10" OC BOTH WAYS.
2. FLOOR OF INLET SHALL BE SHAPED WITH INVERT TO PROVIDE SMOOTH FLOW.
3. STEPS ARE NOT ALLOWED.
4. BEVEL ALL EXPOSED EDGES WITH 3/4" CHAMFER OR 1/2" TOOLED EDGE.
5. THE SUM OF "L" & "W" SHALL NOT EXCEED 14' WITHOUT SPECIAL DESIGN.
6. ALL GUTTER CONSTRUCTED IN FRONT OF INLET, ALL C&G IN CURB REPAIRS OR REPLACEMENTS & ALL SIDEWALK CONST AROUND INLET SHALL BE INCLUDED IN THE BID PRICE OF THE INLET.
7. SAW CUT & REPL AN EXTRA 2' OF CURB ON BOTH SIDES WHEN CONST IN EXIST CURB.
8. ALL POURED CONCRETE SHALL BE CLASS 'B'.
9. EDGE OF BOX SHALL BE A MINIMUM OF 15' FROM CURB RADIUS PC.




PLAN VIEW
SCALE = NTS

NOTES:
1. BID ITEM LIMIT TO INCLUDE THE C & G, SIDEWALK, & ANY SEED & MULCH NEEDED WITHIN 2' OF BOX FACES.
2. BOX CAN BE CAST-IN-PLACE OR PRECAST.

| CITY OF JOPLIN | CITY OF JOPLIN, MO | CKD BY: SALISBURY | PROJECT |
|---|---|---|---|
| | PUBLIC WORKS DEPT | DATE: 8/2015 | TYPE 'C' CURB INLET |
| | ENGINEERING DIVISION | ENGINEER: HEATHERLY | |
| | 602 S MAIN ST 64801 | FILE: TYPECCB | |

TYPICAL DRAINAGE STRUCTURE NOTES:
1. ALL STRUCTURES SHALL BE PRECAST REINFORCED CONCRETE SECTIONS MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C478. ALL STRUCTURES SHALL BE DESIGNED FOR AN H20 HIGHWAY LOADING UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
2. THE BASES OF ALL STRUCTURES SHALL BE CAST-IN-PLACE AND FILLED WITH CONCRETE GROUT TO MID-DEPTH OF PIPE(S) FORMING CHANNELS TOWARD OUTLET PIPE FROM ALL INLET PIPES, AS SHOWN ON TYPICAL INVERTS DETAIL. A MINIMUM OF 4" OF GROUT BELOW FLOWLINE OUT ELEVATION IS REQUIRED. CONCRETE FOR INVERTS SHALL BE PLACED AFTER COMPLETION OF THE STRUCTURE. THE CONTRACTOR MAY, AT HIS OPTION, USE PRECAST CONCRETE BASES.
3. PIPES OMITTED FROM DETAILS. REFER TO PLANS AND STORM DRAIN TABLES FOR PIPE TYPE, SIZE, ORIENTATION & INVERT ELEVATION.
4. MINIMUM 4" THICKNESS OF PIPE BEDDING MATERIAL SHALL BE PLACED UNDER ALL DRAINAGE STRUCTURES.
5. WHEN THE CONTRACTOR ELECTS TO CONSTRUCT CAST-IN-PLACE DRAINAGE STRUCTURES, THE DESIGN OF THE STRUCTURE SHALL BE PROVIDED BY THE ENGINEER UPON WRITTEN REQUEST. THE CONTRACTOR, AT HIS OPTION, MAY HAVE A CAST-IN-PLACE DESIGN PREPARED BY ANOTHER LICENSED ENGINEER AND SUBMIT THE DESIGN TO THE ENGINEER FOR REVIEW AND APPROVAL.
6. ALL PIPES SHALL BE COPED OR FIT FLUSH WITH INSIDE FACE OF STRUCTURE.
7. CONSTRUCTION OF ALL DRAINAGE STRUCTURES SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE CITY OF JOPLIN.
8. ALL CONCRETE SHALL HAVE 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.
9. OPTIONAL TOP SLAB REQUIRED TO SUPPORT CASTING FRAMES SMALLER THAN INSIDE OF STRUCTURES.
10. CAST A MINIMUM OF TWO 2" DIA. WEEP HOLES IN EACH STRUCTURE 2'-0" BELOW TOP OF CURB OR RIM ELEVATION.
11. MANHOLE STEPS ARE NOT REQUIRED IN STORM DRAIN STRUCTURES.
12. SET FRAME & GRATE CASTINGS &/OR TOP OF STRUCTURES TO MATCH FINISH GRADE SLOPE.
13. MINIMUM OF TWO #5'S ABOVE ALL PIPE OPENINGS.
14. MINIMUM OF 6" FROM OUTSIDE OF PIPES TO INSIDE FACE OF WALLS, BOTTOM OF TOP SLAB, OR TOP OF CONCRETE WALLS.
15. HOLES FOR PIPES SHALL BE MAXIMUM OF 2" LARGER THAN THE OUTSIDE DIMENSION OF PIPE TO BE INSTALLED AND ANNULAR SPACE SHALL BE FILLED WITH NON-SHRINK, NON-METALLIC EXPANSIVE GROUT.

STORM SEWER PLAN AND PROFILE

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

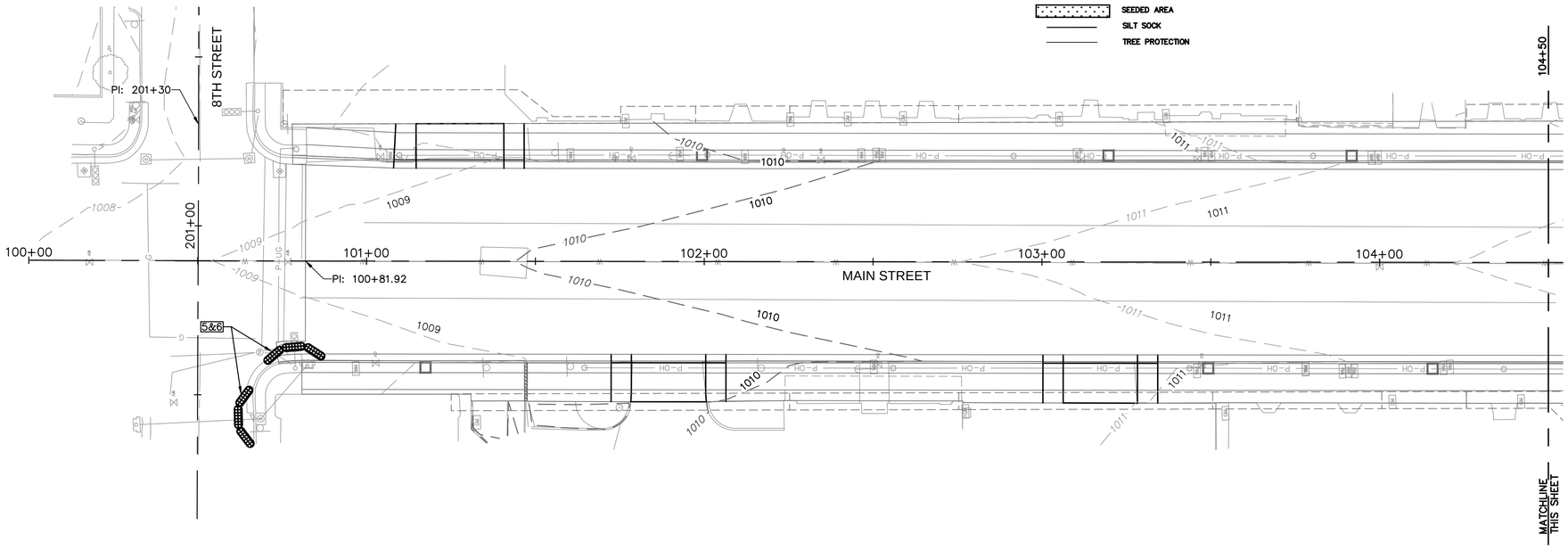
JOPLIN, MO

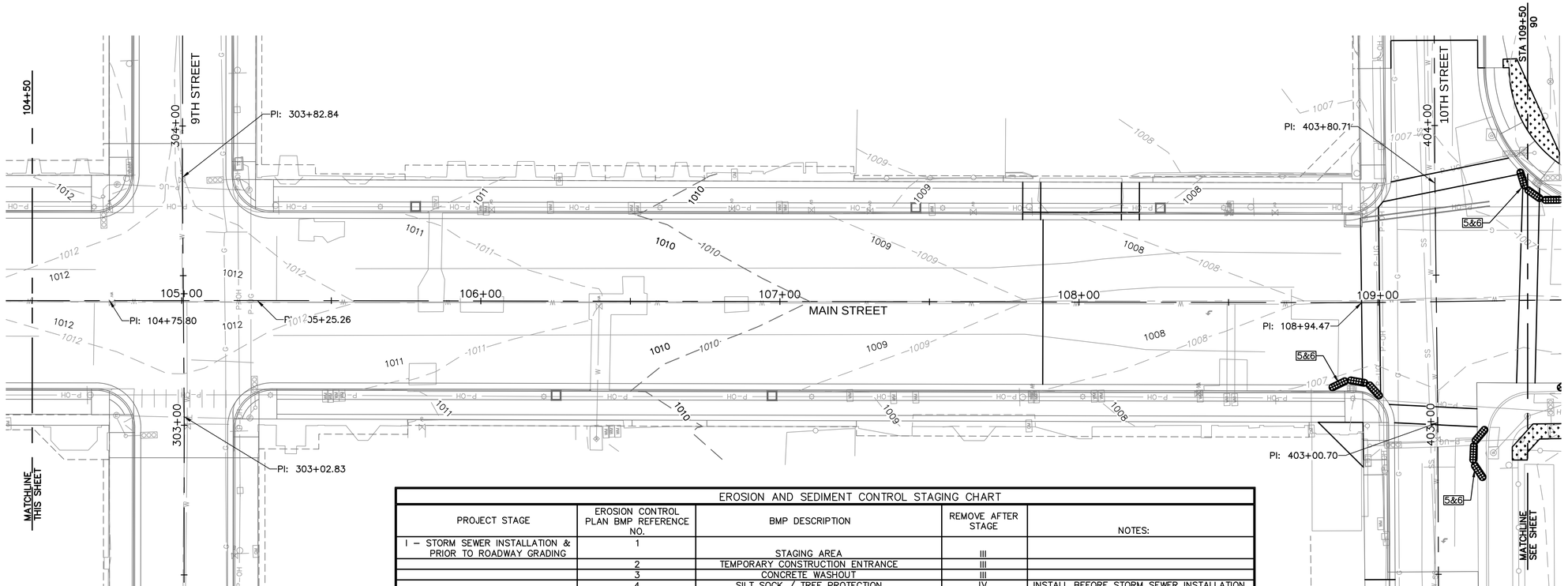
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EROSION AND SEDIMENT CONTROL STAGING CHART

| PROJECT STAGE | EROSION CONTROL PLAN BMP REFERENCE NO. | BMP DESCRIPTION | REMOVE AFTER STAGE | NOTES: |
|---|---|---|---|---|
| I – STORM SEWER INSTALLATION & PRIOR TO ROADWAY GRADING | 1 | STAGING AREA | III | |
| | 2 | TEMPORARY CONSTRUCTION ENTRANCE | III | |
| | 3 | CONCRETE WASHOUT | III | |
| | 4 | SILT SOCK / TREE PROTECTION | IV | INSTALL BEFORE STORM SEWER INSTALLATION |
| | 5 | CURB INLET/AREA INLET PROTECTION | III | PROTECT ALL OPEN BOXES WITH SILT FENCE PER CURB INLET DETAIL |
| II – ROADWAY GRADING & STORM SEWER INSTALLATION | | | | |
| III – PAVING | 6 | CURB INLET/AREA INLET/CULVERT INLET PROTECTION | IV | GRAVEL FILTER BAGS |
| IV – STABILIZE SITE | 7 | SEEDING | IV | SEE THIS SHEET FOR SODDING PLANS |


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EROSION CONTROL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

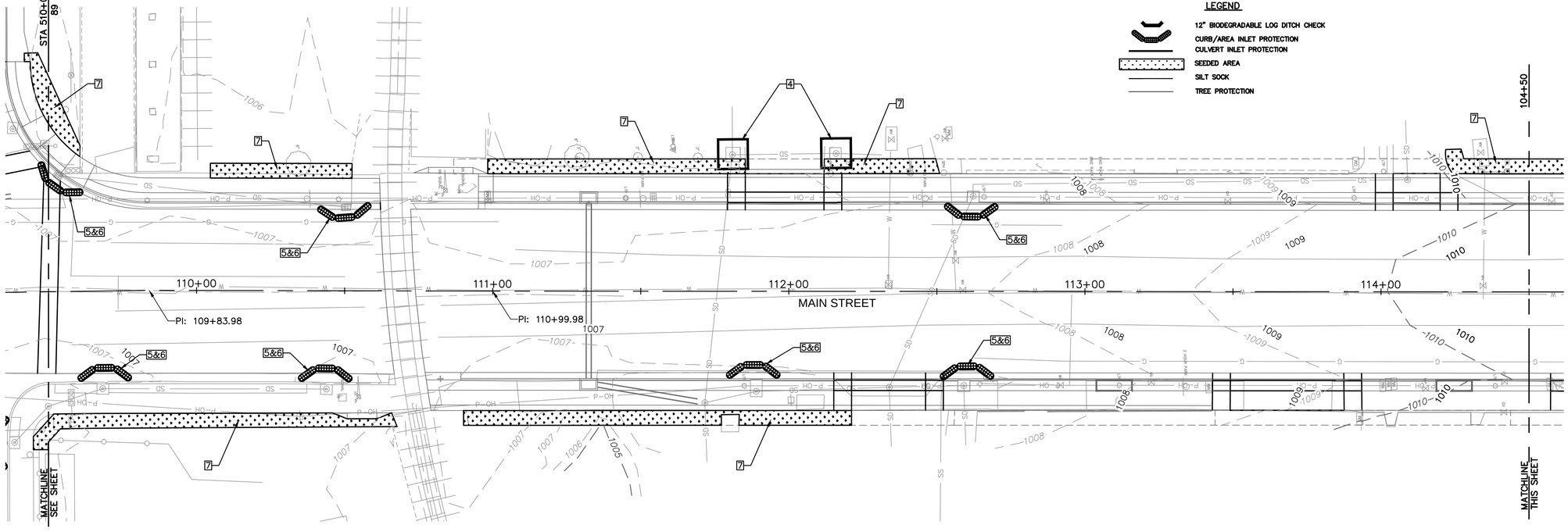
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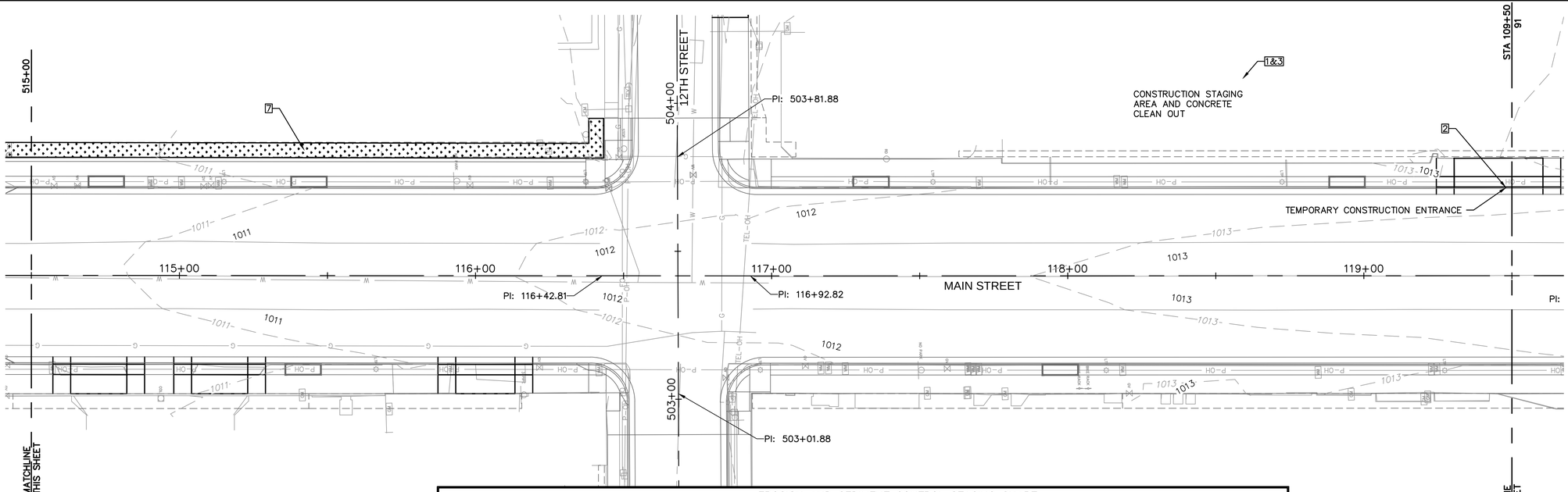
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|---|---|---|---|---|
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| | 2 | TEMPORARY CONSTRUCTION ENTRANCE | III | |
| | 3 | CONCRETE WASHOUT | III | |
| | 4 | SILT SOCK / TREE PROTECTION | IV | INSTALL BEFORE STORM SEWER INSTALLATION |
| | 5 | CURB INLET/AREA INLET PROTECTION | III | PROTECT ALL OPEN BOXES WITH SILT FENCE PER CURB INLET DETAIL |
| II – ROADWAY GRADING & STORM SEWER INSTALLATION | | | | |
| III – PAVING | 6 | CURB INLET/AREA INLET/CULVERT INLET PROTECTION | IV | GRAVEL FILTER BAGS |
| IV – STABILIZE SITE | 7 | SEEDING | IV | SEE THIS SHEET FOR SODDING PLANS |

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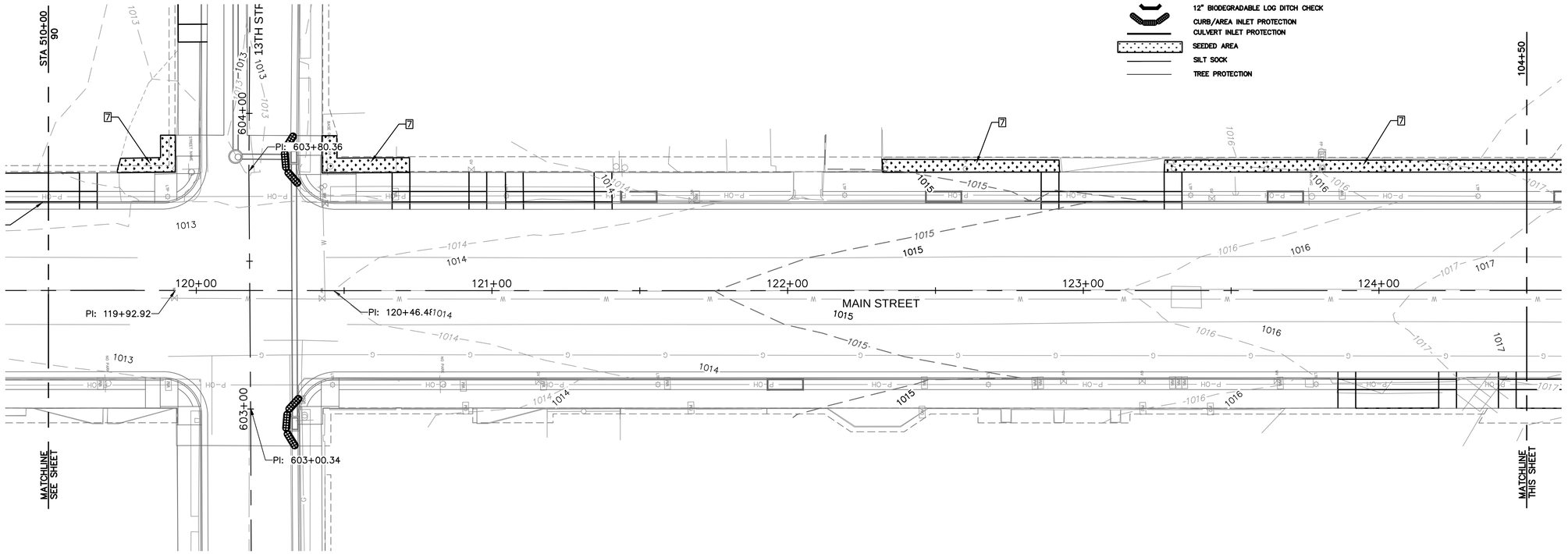
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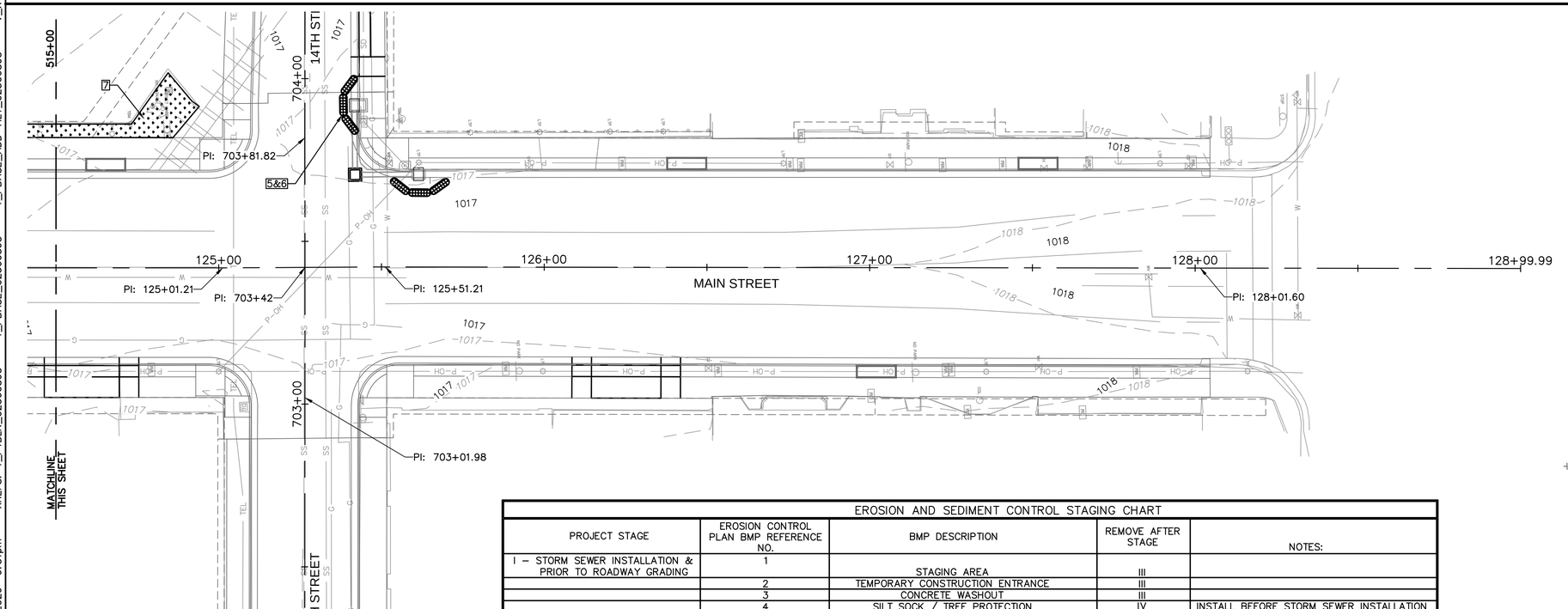
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| EROSION AND SEDIMENT CONTROL STAGING CHART | | | | |
|---|---|---|---|---|
| PROJECT STAGE | EROSION CONTROL PLAN BMP REFERENCE NO. | BMP DESCRIPTION | REMOVE AFTER STAGE | NOTES: |
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| III – PAVING | 6 | CURB INLET/AREA INLET/CULVERT INLET PROTECTION | IV | GRAVEL FILTER BAGS |
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| | | REVISIONS | |

EROSION CONTROL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

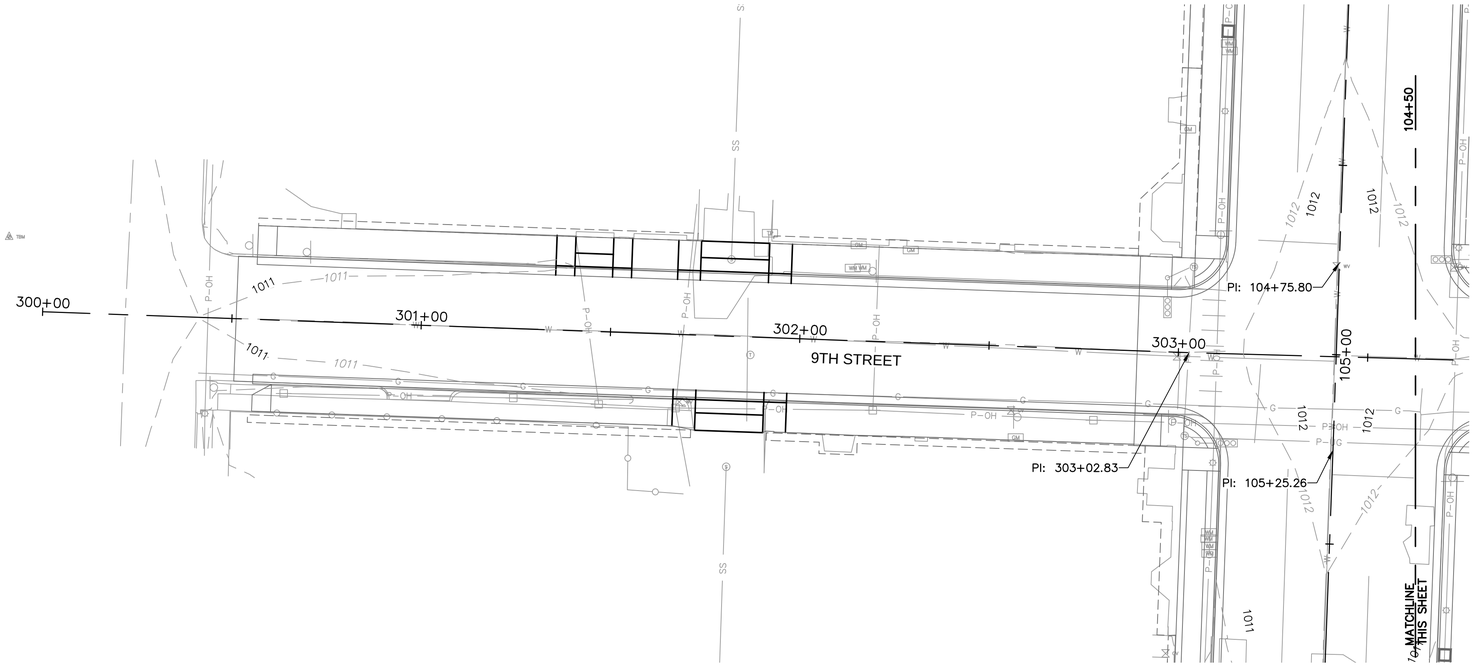
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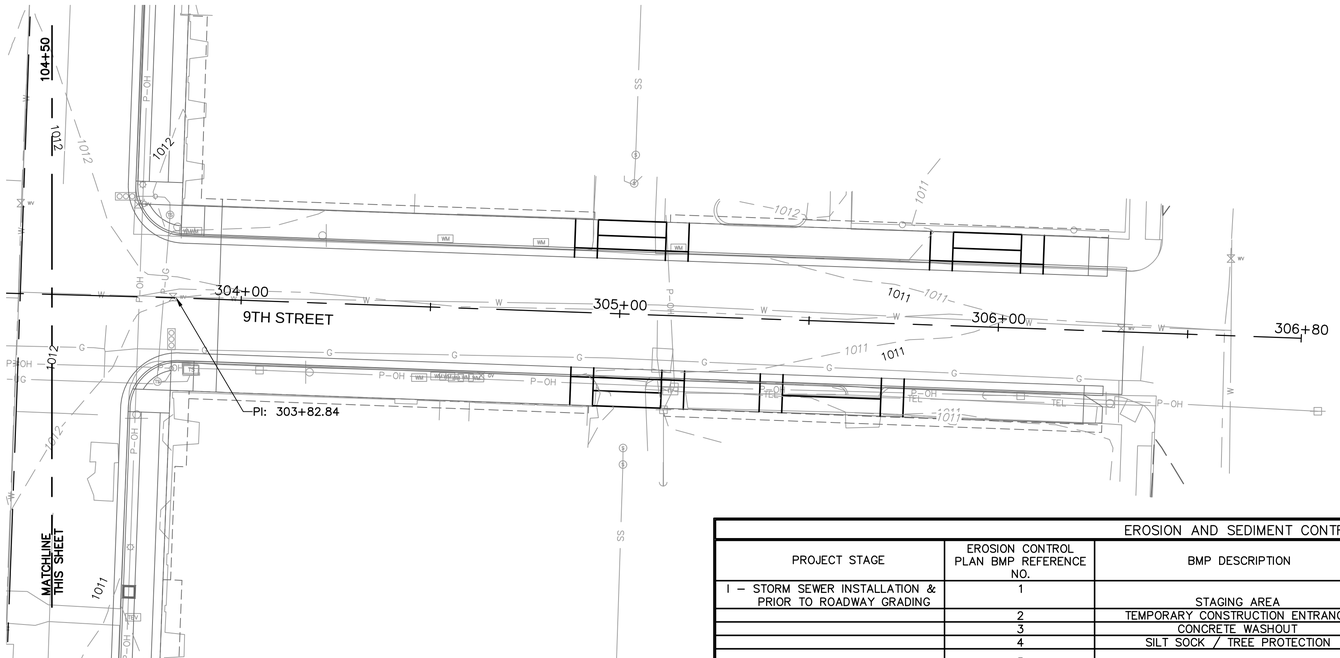
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approved by: JWP
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**LEGEND**

- 12" BIODEGRADABLE LOG DITCH CHECK
- CURB/AREA INLET PROTECTION
- CULVERT INLET PROTECTION
- SEEDED AREA
- SILT SOCK
- TREE PROTECTION

| EROSION AND SEDIMENT CONTROL STAGING CHART | | | | |
|---|---|---|---|---|
| PROJECT STAGE | EROSION CONTROL PLAN BMP REFERENCE NO. | BMP DESCRIPTION | REMOVE AFTER STAGE | NOTES: |
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| III – PAVING | 6 | CURB INLET/AREA INLET/CULVERT INLET PROTECTION | IV | GRAVEL FILTER BAGS |
| IV – STABILIZE SITE | 7 | SEEDING | IV | SEE THIS SHEET FOR SODDING PLANS |


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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

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REVISIONS

EROSION CONTROL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

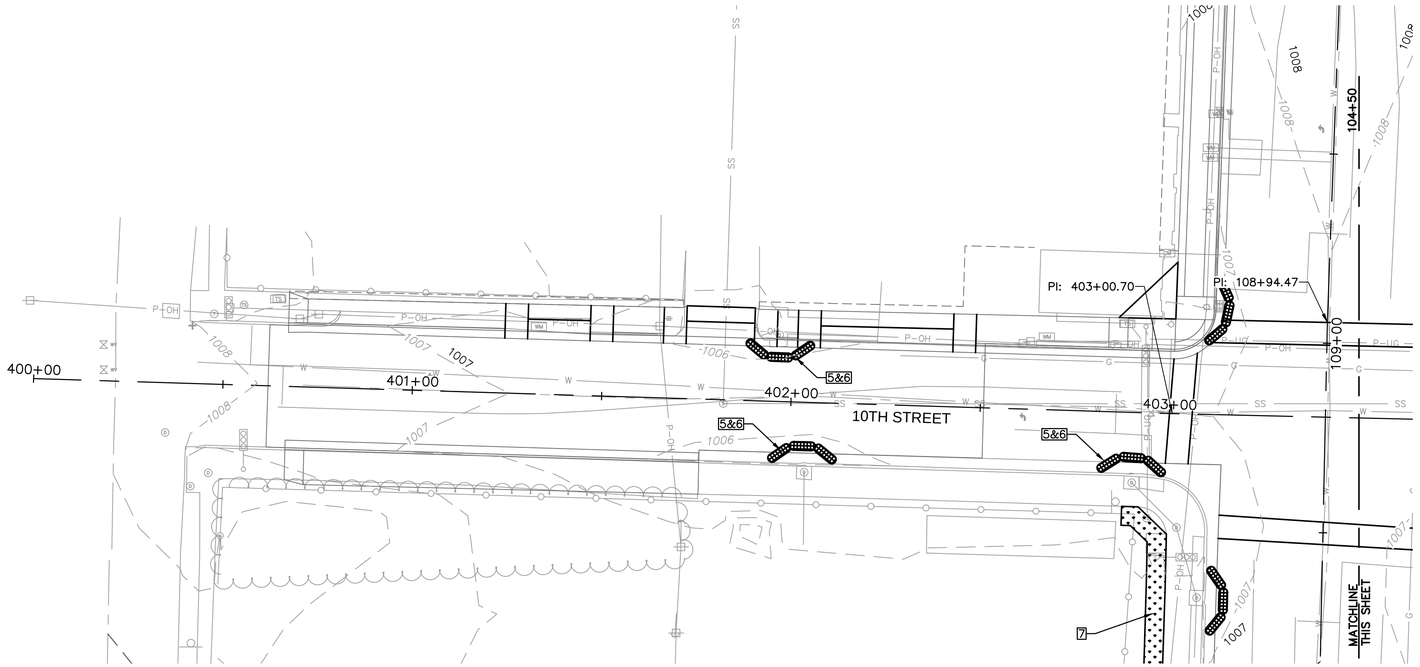
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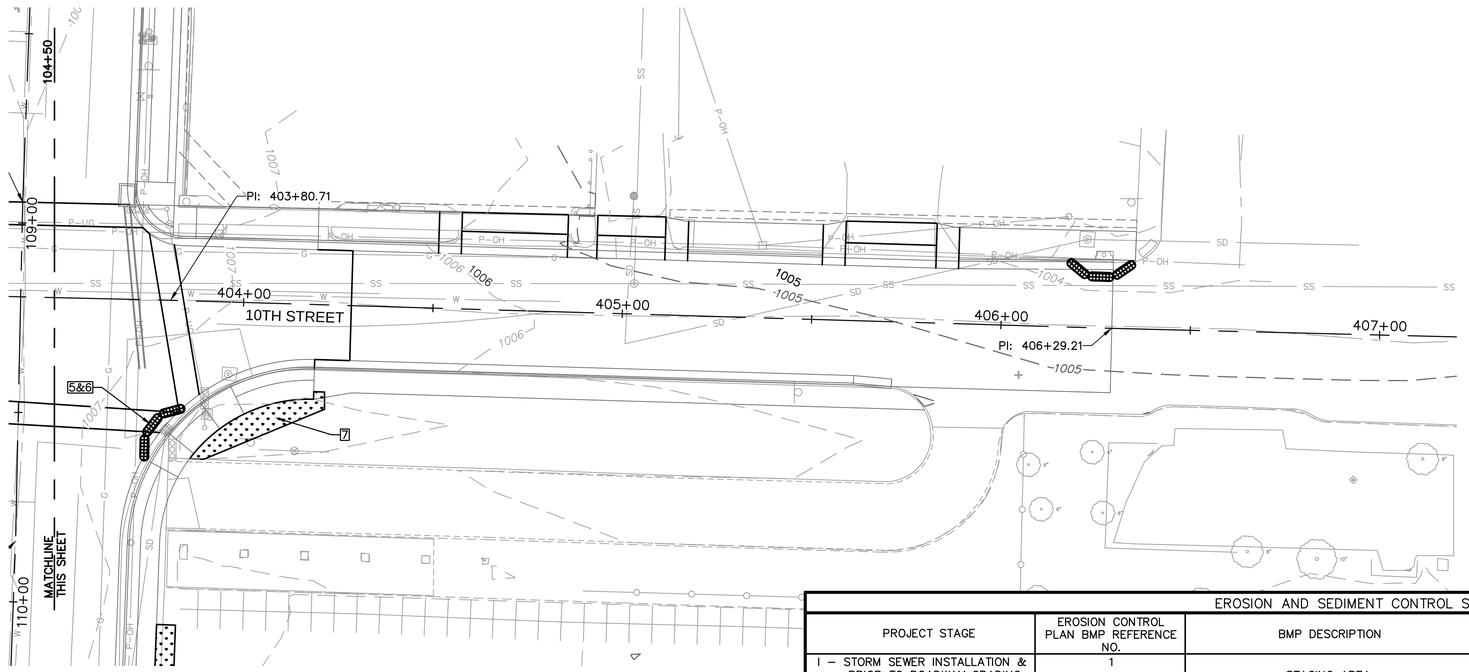
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EROSION CONTROL PLANS

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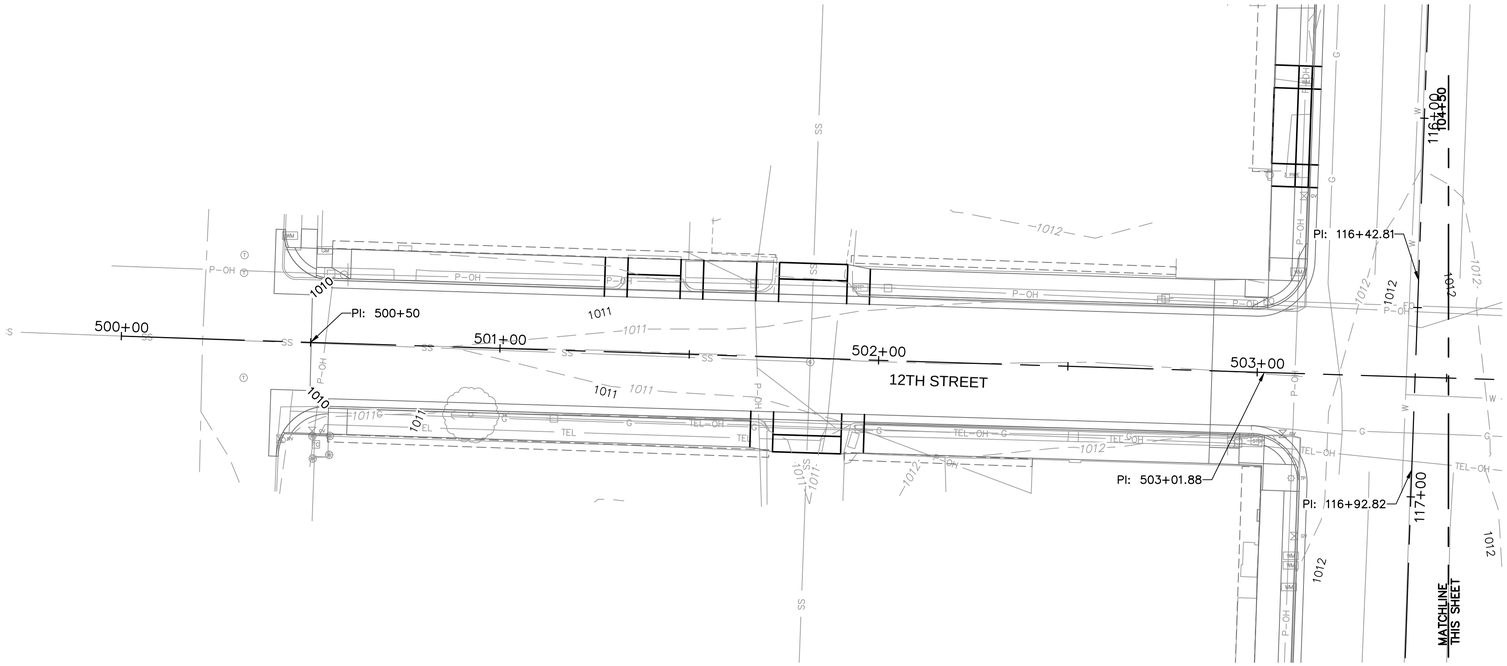
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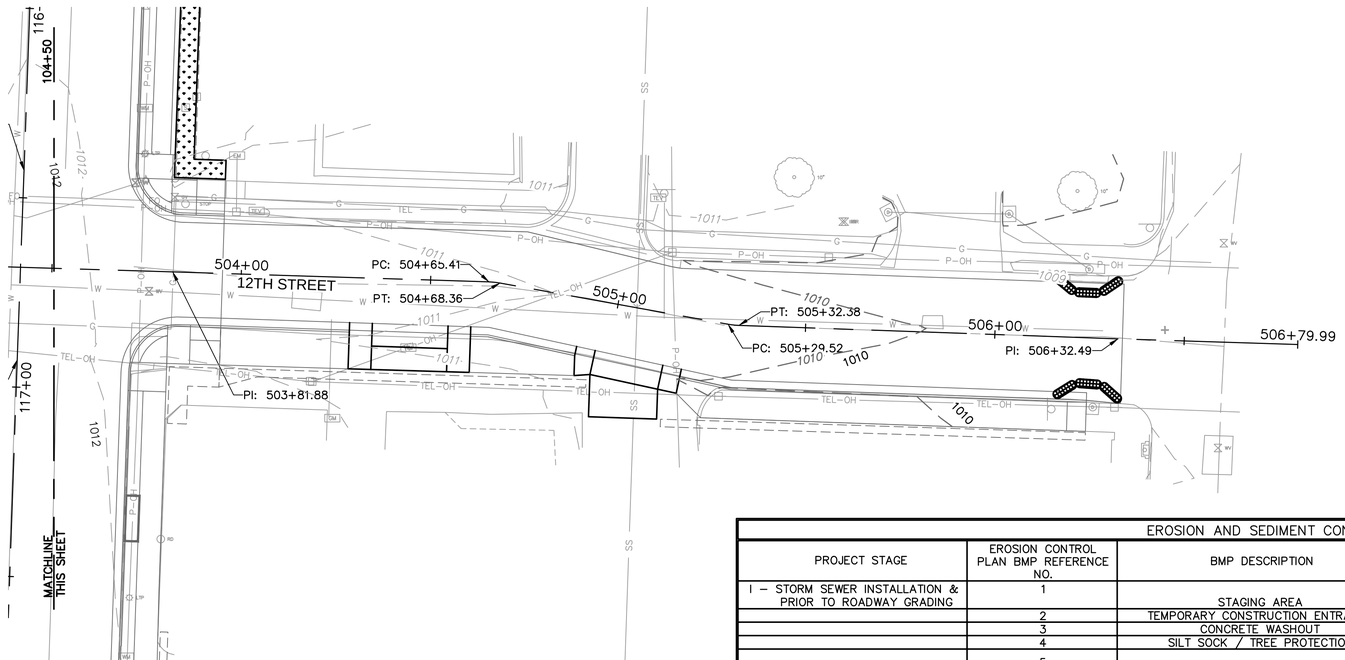
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EROSION CONTROL PLANS

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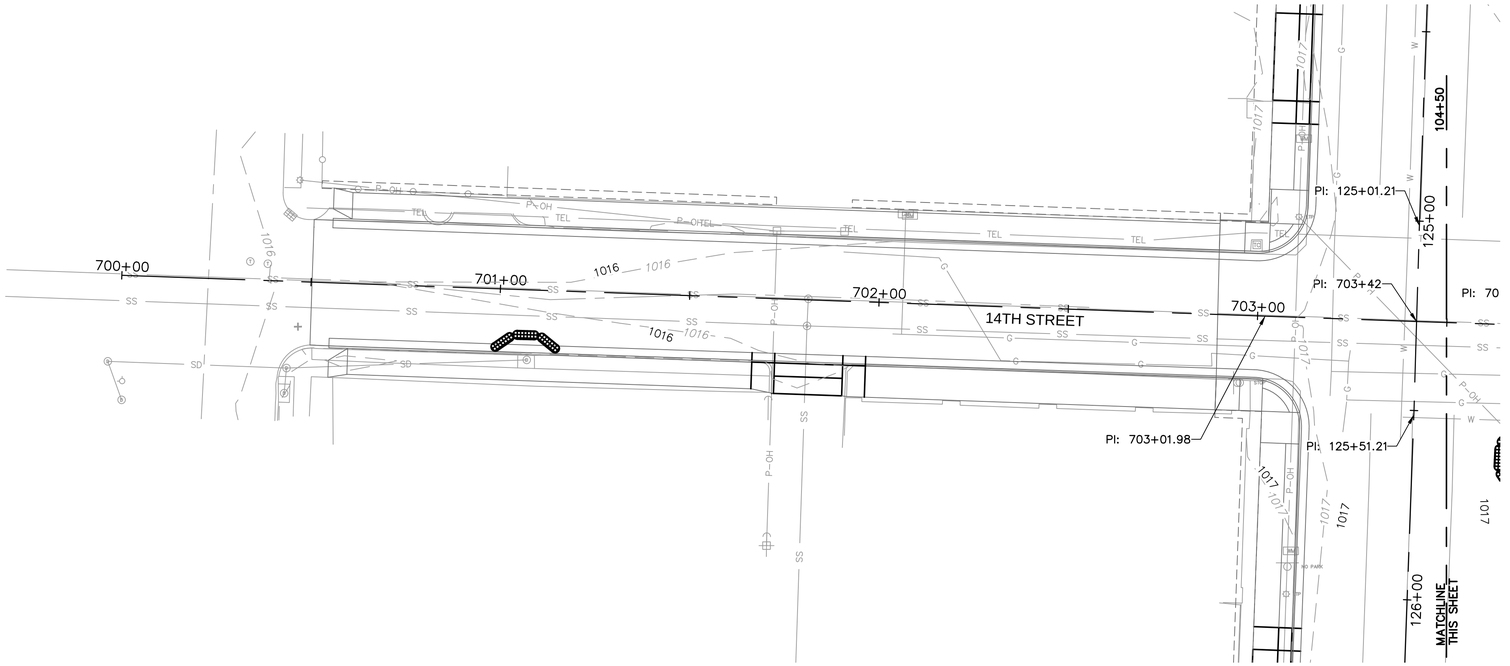
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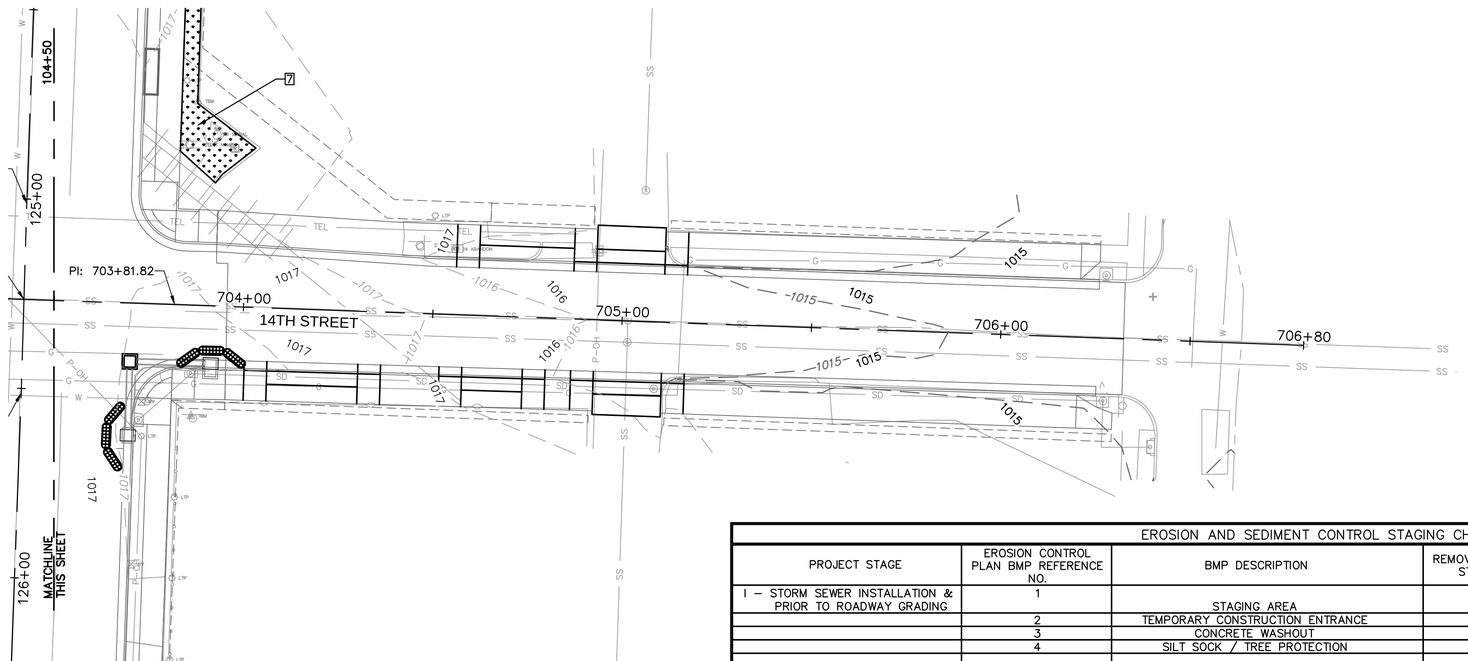
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EROSION CONTROL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

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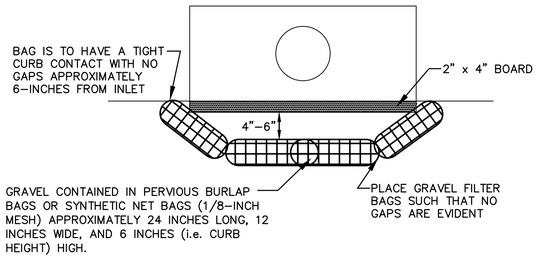
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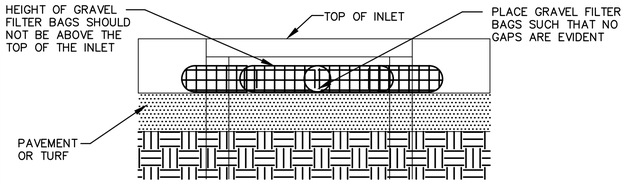
EROCO SILT SOXX AND FILTER RING, OR EQUAL, MAY BE USED IN LIEU OF SILT FENCE, AND GRAVEL FILTER BAGS.




TOP VIEW

* 5/8" CRUSHED LIMESTONE

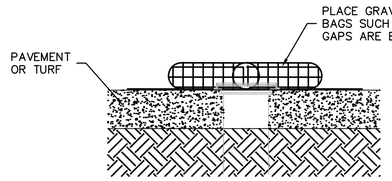
BAGS SHALL BE INSPECTED AND REPLACED AS NEEDED.



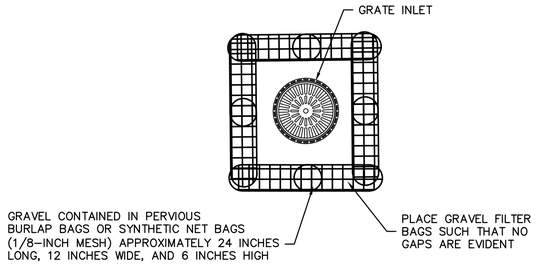

FRONT VIEW

GRAVEL FILTER BAG AT CURB INLET DETAIL

NOT TO SCALE



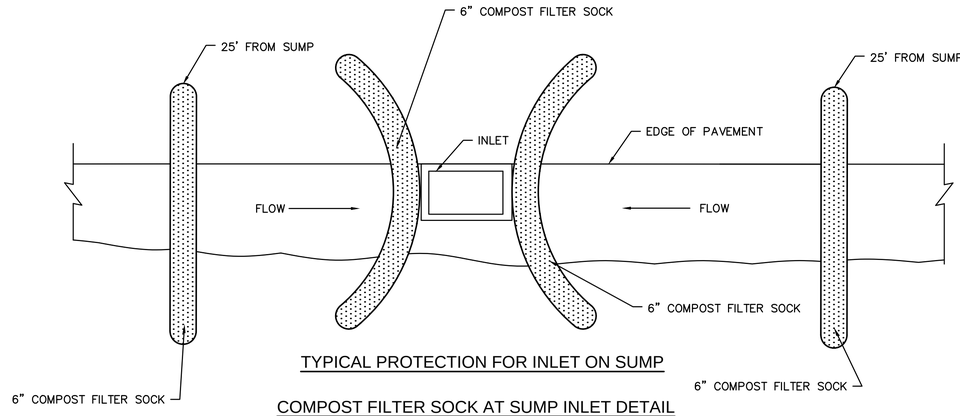

FRONT VIEW




TOP VIEW

* 5/8 – 1 1/2" CRUSHED LIMESTONE

BAGS SHALL BE INSPECTED AND REPLACED AS NEEDED.



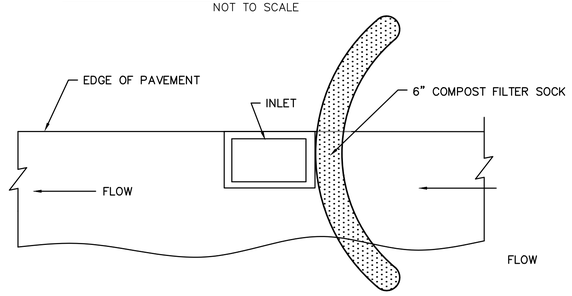

TYPICAL PROTECTION FOR INLET ON SUMP

COMPOST FILTER SOCK AT SUMP INLET DETAIL

NOT TO SCALE

GRAVEL FILTER BAGS AROUND GRATE DETAIL

NOT TO SCALE



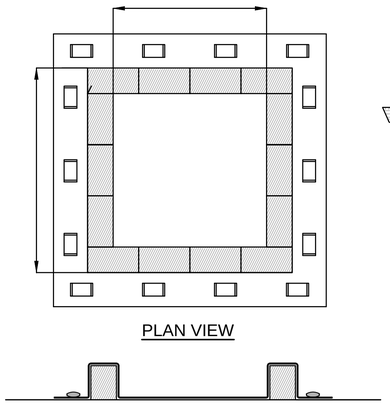

TYPICAL PROTECTION FOR INLET ON GRADE

COMPOST FILTER SOCK AT CURB INLET DETAIL

NOT TO SCALE

## CURB INLET CHECK DETAILS

NOT TO SCALE




PLAN VIEW

SECTION VIEW

CONCRETE WASHOUT DETAIL

NOT TO SCALE

NOTE:

1. WASHOUT CONTAINMENT SHALL BE INSTALLED FOR DURATION OF CONCRETE WORK AND RETAIN CONCRETE CONCRETE AND OTHER WASHOUT LIQUID UNTIL EVAPORATION OR A REMOVAL PUMP.
2. CONTAINMENT SHALL BE SIZED FOR EXPECTED WASHOUT VOLUME.
3. AVOID PLACING NEAR STORM DRAINS, STREAMS, SINKHOLES, OUTFALLS OR OTHER LOW AREAS WHERE WATER PONDS OR FLOWS.
4. OTHER APPROVED LEAK PROOF CONTAINMENT IS ACCEPTABLE.
5. TRAPS SHALL BE ROUTINELY MAINTAINED AT 75% CAPACITY AND REPLACED AS NECESSARY TO PERFORM.
6. THE WASHOUT PIT SHALL BE COVERED BEFORE PREDICTED RAIN EVENTS TO PREVENT OVERFLOW.
7. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
8. CONCRETE WASHOUT SHALL BE PAID FOR AS SUBSIDIARY TO OTHER EROSION CONTROL ITEMS.

## EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION & SEDIMENT CONTROL MEASURES AND PRACTICES THROUGHOUT THE PROJECT. ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL VIOLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
2. EROSION CONTROL IS THE CONTRACTOR'S RESPONSIBILITY. THIS PLAN SHOULD BE USED AS A GUIDE AND REPRESENTS THE MINIMUM EROSION CONTROL DEVICES REQUIRED.
3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON–SITE INSPECTION.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL EROSION & SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL EVENT.
5. THE CONTRACTOR SHALL PROVIDE ANY FURTHER EROSION CONTROL MEASURES IN ADDITION TO THOSE LISTED TO ENSURE THAT SILT WILL NOT LEAVE THE PROJECT CONFINES.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION & SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED WITH A HEALTHY STAND OF PERMANENT VEGETATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON–SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AT COMPLETION OF CONSTRUCTION.
8. THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
9. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY STABILIZATION AS REQUIRED.
10. ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE ENGINEERING DIVISION, DEPARTMENT OF PUBLIC WORKS, CITY OF JOPLIN, MISSOURI.
11. THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE STREETS OF DEPOSITED MUD AS FREQUENTLY AS NEEDED IN ORDER TO KEEP THEM USABLE AND TO CONTROL DUST.
12. CONTRACTOR IS RESPONSIBLE FOR PHASED INSTALLATION OF EROSION CONTROL BMP'S IN ORDER TO PREVENT SEDIMENT FROM BREACHING THE LIMITS OF DISTURBANCE.


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REVISIONS

EROSION CONTROL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2025

JOPLIN, MO

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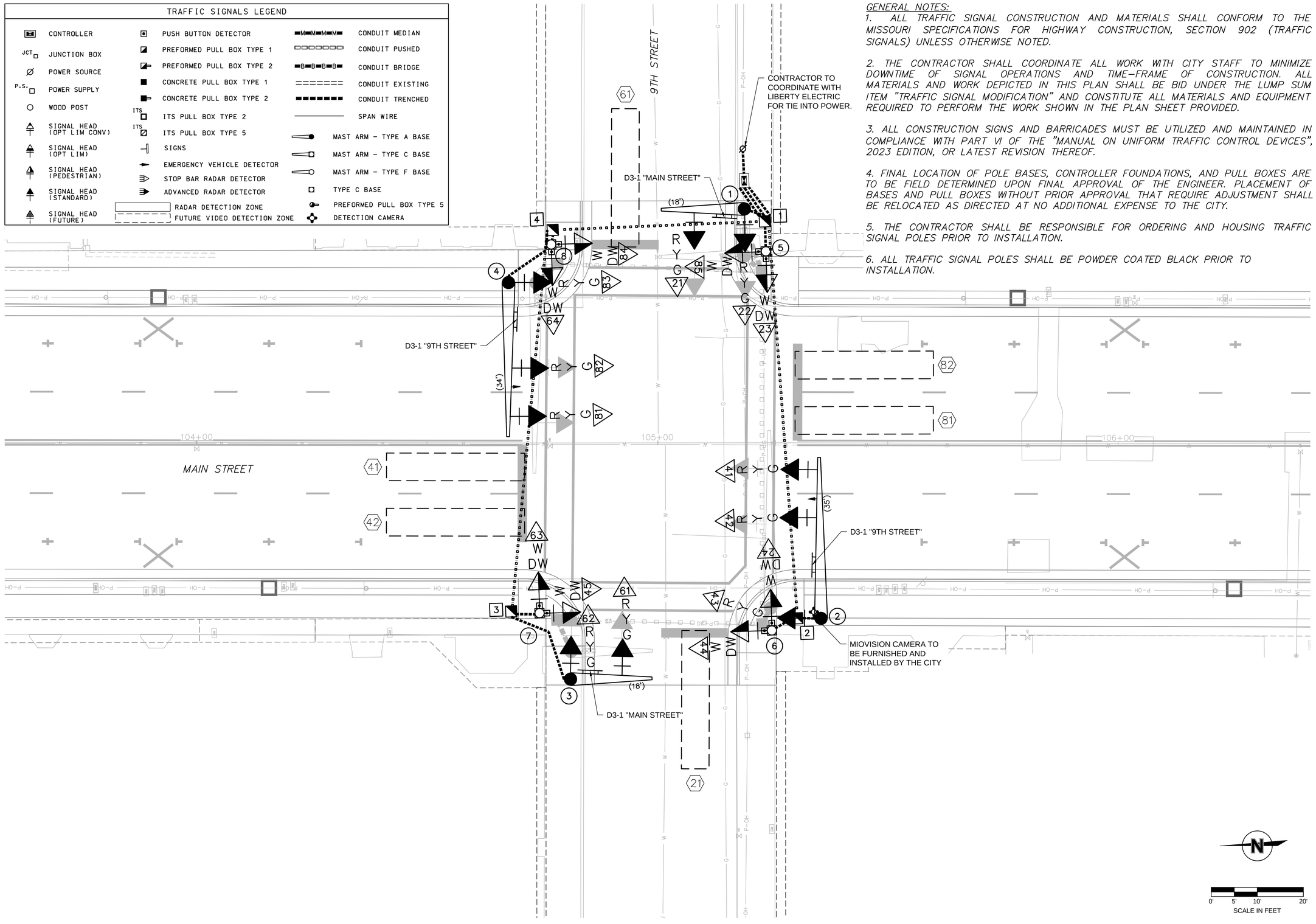



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USER: jpudlowski F_PTBLK_02300893 F_XBASE_02300893 F_SAS-BASE_02300893 T_PBASE_02300893

## TRAFFIC SIGNALS LEGEND

- CONTROLLER
- JUNCTION BOX
- POWER SOURCE
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- SIGNAL HEAD (FUTURE)
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- CONCRETE PULL BOX TYPE 1
- CONCRETE PULL BOX TYPE 2
- ITS PULL BOX TYPE 2
- ITS PULL BOX TYPE 5
- SIGNS
- EMERGENCY VEHICLE DETECTOR
- STOP BAR RADAR DETECTOR
- ADVANCED RADAR DETECTOR
- RADAR DETECTION ZONE
- FUTURE VIDEO DETECTION ZONE
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- SPAN WIRE
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE
- TYPE C BASE
- PREFORMED PULL BOX TYPE 5
- DETECTION CAMERA




*GENERAL NOTES:*

1. *ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 902 (TRAFFIC SIGNALS) UNLESS OTHERWISE NOTED.*

2. *THE CONTRACTOR SHALL COORDINATE ALL WORK WITH CITY STAFF TO MINIMIZE DOWNTIME OF SIGNAL OPERATIONS AND TIME-FRAME OF CONSTRUCTION. ALL MATERIALS AND WORK DEPICTED IN THIS PLAN SHALL BE BID UNDER THE LUMP SUM ITEM "TRAFFIC SIGNAL MODIFICATION" AND CONSTITUTE ALL MATERIALS AND EQUIPMENT REQUIRED TO PERFORM THE WORK SHOWN IN THE PLAN SHEET PROVIDED.*

3. *ALL CONSTRUCTION SIGNS AND BARRICADES MUST BE UTILIZED AND MAINTAINED IN COMPLIANCE WITH PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2023 EDITION, OR LATEST REVISION THEREOF.*

4. *FINAL LOCATION OF POLE BASES, CONTROLLER FOUNDATIONS, AND PULL BOXES ARE TO BE FIELD DETERMINED UPON FINAL APPROVAL OF THE ENGINEER. PLACEMENT OF BASES AND PULL BOXES WITHOUT PRIOR APPROVAL THAT REQUIRE ADJUSTMENT SHALL BE RELOCATED AS DIRECTED AT NO ADDITIONAL EXPENSE TO THE CITY.*

5. *THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING AND HOUSING TRAFFIC SIGNAL POLES PRIOR TO INSTALLATION.*

6. *ALL TRAFFIC SIGNAL POLES SHALL BE POWDER COATED BLACK PRIOR TO INSTALLATION.*

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TRAFFIC SIGNAL PLANS
9TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

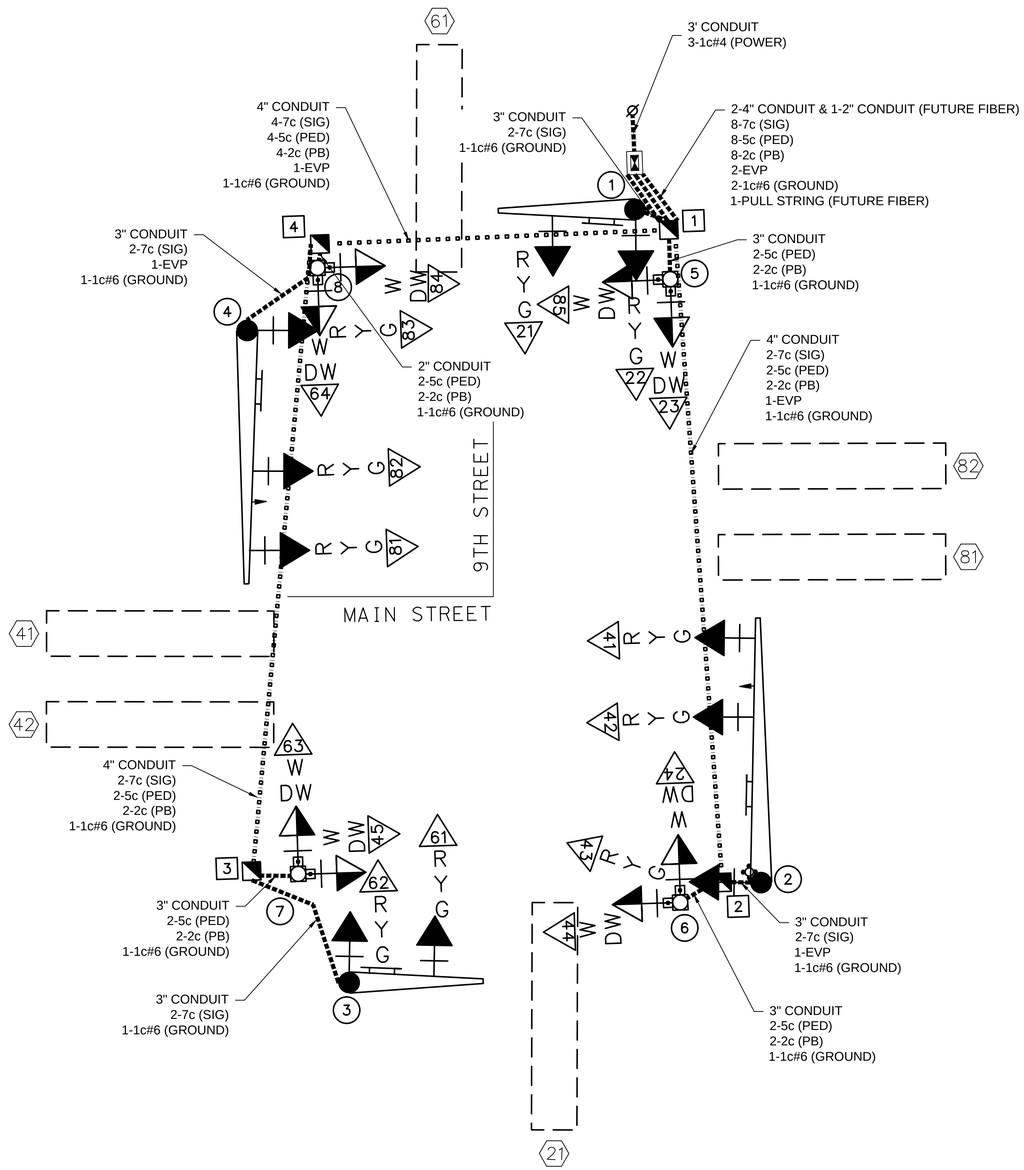
drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.: F_TRS_02300893.DWG
date: 02/11/2026

DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\TRAFFIC SIGNAL PLANS AND DETAILS\F_TRS_02300893.dwg USER: jpudlowski
DATE: Apr 17, 2026 1:51pm XREFS: V_XTOPO_02300893 F_PBASE_02300893 V_TOPO_62625 V_XBOU_62625 T_PALGN_62625A
T_PBASE_02300893 F_SAS-BASE_02300893 F_XBASE_02300893 F_PTBLK_02300893

## LEGEND

- CONDUIT PUSHED
- CONDUIT TRENCHED
- X–Xc — MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- POST WITH MAST ARM AND LUMINAIRE
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SOURCE
- LIGHTING CONTROLLER
- P.S. — POWER SUPPLY
- U.P.S. — UNINTERRUPTIBLE POWER SUPPLY
- WIRELESS ACCESS UNIT OR SUBSCRIBER UNIT
- RADAR DETECTOR

## WIRING DIAGRAM




*GENERAL NOTES:*

1. *CONNECTIONS FOR ALL SIGNAL HEADS WILL BE MADE IN THE BASE OF POLE. A SEPARATE 7C CABLE WILL BE RUN FROM EACH HEAD TO THE BASE OF POLE.*

2. *4" CONDUIT SHALL BE HDPE SDR-9 OR RIGID.*

NOT TO SCALE

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Olsson - Civil Engineering
Missouri Certificate of Authority # 001592
1027 S. Main Street, Suite 503
Joplin, MO 64801
TEL 417.781.0643
www.olsson.com

JOSHUA PUDLOWSKI NUMBER PE-2021009515 STATE OF MISSOURI PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

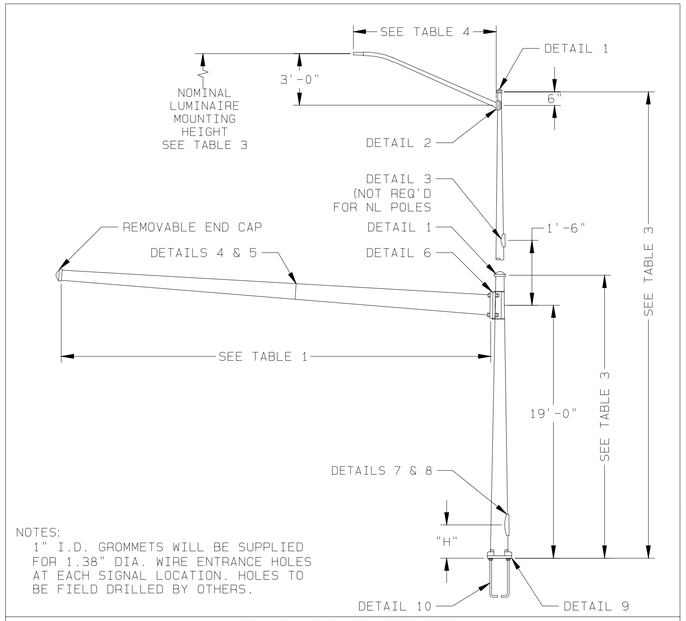
TRAFFIC SIGNAL PLANS
9TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

| | |
|---|---|
| drawn by: | SRH |
| checked by: | JMP |
| approved by: | JSS |
| QA/QC by: | JSS |
| project no.: | 023-00893 |
| drawing no.: | F_TRS_02300893.DWG |
| date: | 02/11/2026 |




NOTES:
1" I.D. GROMMETS WILL BE SUPPLIED FOR 1.38" DIA. WIRE ENTRANCE HOLES AT EACH SIGNAL LOCATION. HOLES TO BE FIELD DRILLED BY OTHERS.

JOPLIN POLE SERIES

JOPLIN-1-30-MR-15
- JOPLIN POLE SERIES
- TYPE 1,2,OR 3
- SIGNAL ARM SPAN (FT) (SEE TABLE 1)
- UPRIGHT TYPE NL,LR,MR,HR (SEE TABLE 3)
- LUMINAIRE ARM SPAN 6',8',10',12',15' (SEE TABLE 4)

DESIGNATION KEY

## FINISH DATA

| STANDARD FINISH | | OPTIONAL FINISH | |
|---|---|---|---|
| SYSTEM: | GALVANIZED (GV) | SYSTEM: | V-PRO 54 (VP54) LIQUID (ALTERNATE) |
| BASE COAT: | HOT-DIP GALVANIZED TO ASTM A123 | BASE COAT: | HOT-DIP GALVANIZED TO ASTM A123 |
| PRIME COAT: | NONE | PRIME COAT: | POLYAMIDOAMINE OR POLYAMIDEE EPOXY |
| FINISH COAT: | NONE | FINISH COAT: | ALIPHATIC ACRYLIC POLYURETHANE WITH UV PACKAGE |
| COLOR: | NONE | COLOR: | BLACK |
| SPEC: | F-1 | SPEC: | F-604A |

## TABLE 2: MATERIAL DATA

| COMPONENT | ASTM DESIGNATION | MIN. YIELD (KSI) |
|---|---|---|
| ALL TAPERED TUBES | A595 GR.A OR A572 | 55 |
| BASE PLATE | A36 | 36 |
| SIMPLEX PLATES | A36 | 36 |
| LUM ARM ATTACHMENT | A36 | 36 |
| LUMINAIRE CONN. BOLTS | SAE GR.5 | -- |
| ANCHOR BOLTS | F1554 GR.55 | 55 |
| GALVANIZING-HARDWARE | F2329 | -- |
| | | |
| | | |

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.

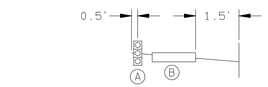
VIBRATION DISCLAIMER

DESIGN CRITERIA:
THE MAST ARM TRAFFIC STRUCTURES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LOADING AND THE ALLOWABLE STRESS REQUIREMENTS OF THE 2013 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", SIXTH EDITION, LTS-6. THE WIND LOADS WERE CALCULATED FROM A BASIC WIND VELOCITY OF 90 MPH WITH A RECURRENCE INTERVAL OF 50 YEARS, AND A FATIGUE CATEGORY OF 2. THE FATIGUE LOADS WERE CALCULATED ON THE REQUIREMENTS OF SECTION 11 OF THE CODE, AND THE FOLLOWING CONDITIONS:

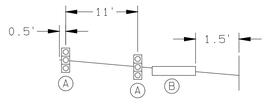
- STRUCTURES ARE DESIGNED TO RESIST NATURAL WIND GUSTS BASED ON THE YEARLY MEAN WIND VELOCITY OF 11.2 MPH.
- STRUCTURES ARE NOT DESIGNED TO RESIST GALLOPING-INDUCED CYCLIC LOADS.
- TRUCK-INDUCED GUST LOADS ARE EXCLUDED PER THE REQUIREMENTS OF THE CODE.

**NOTE:
UPON INITIAL FIELD ASSEMBLY OF THE MAST-ARM'S FIRST SECTION'S BUTT PLATE TO THE MAST-ARM VERTICAL POLE'S BUTT PLATE, IF THE END USER DETERMINES THAT THERE IS A SUFFICIENT GAP AT A BOLT HOLE SUCH THAT THERE WILL NOT BE FACE-TO-FACE CONTACT BETWEEN THE TWO BUTT PLATES, THEN A WASHER SHALL BE INSERTED TO PROVIDE FACE-TO-FACE CONTACT BETWEEN THE TWO BUTT PLATES IN ACCORDANCE WITH SECTION 5.16 "BOLTED CONNECTIONS" OF THE 2013 EDITION OF AASHTO.

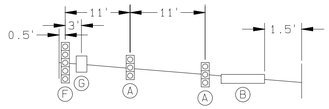
AASHTO 2013 SPECIFICATIONS



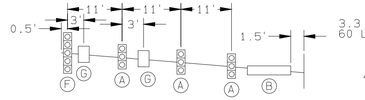

14' THRU 20' MAST ARMS



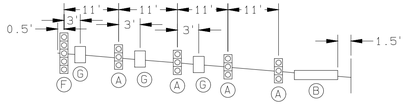

22' THRU 32' MAST ARMS



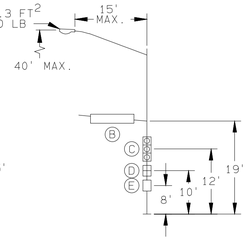

34' THRU 50' MAST ARMS




52' THRU 55' MAST ARMS




60' THRU 70' MAST ARMS




TYPICAL POST LOADING

| DEVICE | DESCRIPTION | PROJ. AREA (FT) | WEIGHT (LBS) |
|---|---|---|---|
| (A) | 12"-3 SEC. SIGNAL WITH BACKPLATES | 8.67 | 30 |
| (B) | 36" X 114" STREET NAME SIGN | 28.50 | 200 |
| (C) | 12"-3 SEC. SIGNAL WITH NO BACKPLATES | 4.08 | 30 |
| (D) | DUAL-2 SEC. PEDESTRIAN SIGNAL | 8.00 | 40 |
| (E) | 30" X 30" POLE MOUNTED SIGN | 6.25 | 13 |
| (F) | 12"-5 SEC. SIGNAL WITH BACKPLATES | 13.33 | 45 |
| (G) | 24" X 30" MAST ARM MOUNTED SIGN | 5.00 | 10 |

LOADING INFORMATION

## TABLE 3: ELEVATION DATA

| ELEVATIONS | TYPE | | |
|---|---|---|---|
| | NO LUMINAIRE (NL) | LOW RISE (LR) | MEDIUM RISE (MR) |
| LUM. MOUNTING HEIGHT | --- | 30'-0" | 35'-0" |
| POLE LENGTH | 20'-6" | 27'-6" | 32'-6" |

## TABLE 4: LUMINAIRE ARM DATA

| SPAN | FIXED END DIA. | FREE END DIA. | GAUGE |
|---|---|---|---|
| 6' | 3.40" | 2.38" | 11 |
| 8' | 3.63" | 2.38" | 11 |
| 10' | 3.89" | 2.38" | 11 |
| 12' | 4.16" | 2.38" | 11 |
| 15' | 4.58" | 2.38" | 11 |

## TABLE 1: POLE AND MAST ARM DATA

| DESIGNATION KEY | | | | | POLE TUBE | | | POLE BASE | | | | | ANCHOR BOLT | | | | SIGNAL ARM TUBE | | | | SIGNAL ARM ATTACHMENT DATA | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| POLE SERIES | POLE TYPE | SIGNAL ARM SPAN (FT) | LUMINAIRE ARM TYPE | LUMINAIRE ARM SPAN (FT) | BASE DIA. (IN) | LENGTH (FT) | GAUGE OR THK. (IN) | SQUARE "S" (IN) | BOLT CIRCLE "Y" (IN) | THICKNESS "M" (IN) | CENTER HOLE "P" (IN) | HOLE "Z" (IN) | DIAMETER (IN) "K" | LENGTH (IN) "J" | HOOK (IN) "H" | THREAD LENGTH (IN) "U" | FIXED END DIA. (IN) | FREE END DIA. (IN) | GAUGE OR THK. (IN) | LENGTH (FT) | SQUARE "A" (IN) | BOLT PATTERN "B" (IN) | THK "C" (IN) | CENTER HOLE "D" (IN) |
| JOPLIN | 1 | 14 | NL, LR, MR | (6) THRU (15) | 12.50 | SEE TABLE 3 | 5 | 17.50 | 17.00 | 2.00 | 11.00 | 1.75 | 1.50 | 54.00 | 6.00 | 8.00 | 8.00 | 6.04 | 7 | 14.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 16 | | | | | | | | | | | | | | | 8.00 | 5.76 | 7 | 16.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 18 (x2) | | | | | | | | | | | | | | | 8.00 | 5.48 | 7 | 18.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 20 | | | | | | | | | | | | | | | 8.00 | 5.20 | 7 | 20.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 22 | | | | | | | | | | | | | | | 8.00 | 4.92 | 7 | 22.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 24 | | | | | | | | | | | | | | | 8.00 | 4.64 | 7 | 24.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 26 | | | | | | | | | | | | | | | 8.00 | 4.36 | 7 | 26.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 28 | | | | | | | | | | | | | | | 8.00 | 4.08 | 7 | 28.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 30 | | | | | | | | | | | | | | | 8.00 | 3.80 | 7 | 30.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 32 | | | | | | | | | | | | | | | 8.00 | 3.52 | 7 | 32.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 34 | | | | | | | | | | | | | | | 9.00 | 4.24 | 7 | 34.00 | 17.25 | 14.00 | 2.00 | 7.64 |
| JOPLIN | 2 | 36 | NL, LR, MR | (6) THRU (15) | 15.50 | | 0.219 | 20.50 | 20.50 | 2.00 | 13.25 | 2.00 | 1.75 | 84.00 | 6.00 | 8.00 | 10.00 | 4.96 | 7 | 36.00 | 20.75 | 17.50 | 2.00 | 7.00 |
| | | 38 | | | | | | | | | | | | | | | 11.00 | 5.68 | 7 | 38.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 40 | | | | | | | | | | | | | | | 11.00 | 5.40 | 7 | 40.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 42 | | | | | | | | | | | | | | | 12.00 | 6.12 | 7 | 42.00 | 20.75 | 17.50 | 2.00 | 8.75 |
| | | 44 | | | | | | | | | | | | | | | 12.00 | 5.84 | 7 | 44.00 | 20.75 | 17.50 | 2.00 | 8.75 |
| | | 46 | | | | | | | | | | | | | | | 12.50 | 6.06 | 5 | 46.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 48 | | | | | | | | | | | | | | | 12.50 | 5.78 | 5 | 48.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 50 | | | | | | | | | | | | | | | 12.50 | 5.50 | 5 | 50.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 52 | | | | | | | | | | | | | | | 13.00 | 7.61 | SEE DET.3 | 52.00 | 20.75 | 17.50 | 2.00 | 7.00 |
| | | 55 | | | | | | | | | | | | | | | 13.00 | 8.61 | | 55.00 | 20.75 | 17.50 | 2.00 | 7.00 |
| JOPLIN | 3 | 60 | NL, LR, MR | (6) THRU (15) | 17.50 | | 0.250 | 22.50 | 22.50 | 2.00 | 15.75 | 2.25 | 2.00 | 84.00 | 6.00 | 10.00 | 13.00 | 4.96 | SEE DET.3 | 60.00 | 23.75 | 20.00 | 2.50 | 5.00 |
| | | 65 | | | | | | | | | | | | | | | 14.50 | 5.76 | | 65.00 | 23.75 | 20.00 | 2.50 | 6.00 |
| | | 70 | | | | | | | | | | | | | | | 15.00 | 5.56 | | 70.00 | 23.75 | 20.00 | 2.50 | 6.00 |

| REV | DRAWN BY-DATE | CHECK BY-DATE | DESCRIPTION |
|---|---|---|---|
| — | NKL 11/21/24 | NKL 11/21/24 | — — — — — — — — — — — — — — — — |

TITLE: JOPLIN, MISSOURI
TRAFFIC SIGNAL STRUCTURES
AASHTO 2013
9TH AND MAIN STREET

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STATE OF MISSOURI
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NUMBER PE-2021009515
PROFESSIONAL ENGINEER
01/27/26

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

SIGNAL DETAILS
9TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

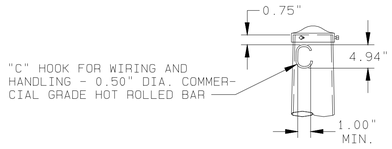
JOPLIN, MO

2026

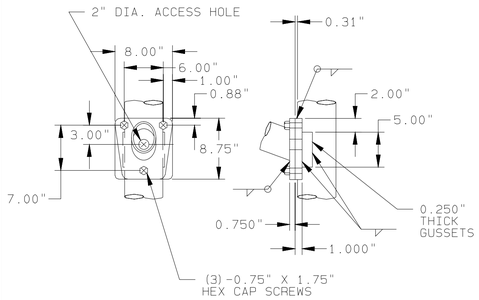
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drawing no.: F_TRS-DTLS_02300893.DWG
date: 02/11/2026

SHEET
99 of 162

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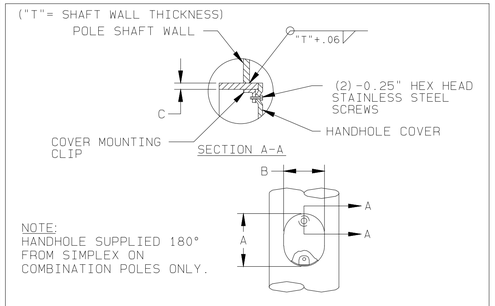



DETAIL 1 | POLE TOP




NOTE:
COVER PLATE TO BE PROVIDED WHEN LUMINAIRE ARM IS NOT ORDERED.

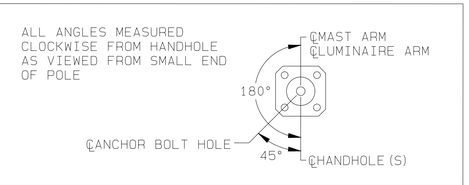
DETAIL 2 | LUMINAIRE ARM ATTACHMENT



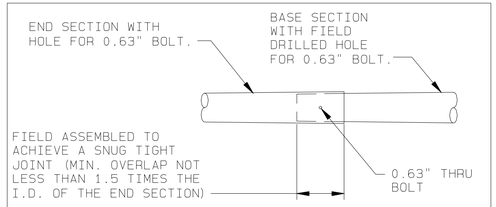

NOTE:
HANDHOLE SUPPLIED 180° FROM SIMPLEX ON COMBINATION POLES ONLY.

| GAUGE OR THK. (IN) | A (IN) | B (IN) | C (IN) |
|---|---|---|---|
| 5 | 7.56 | 5.19 | 0.280 |
| 0.250 | 7.31 | 5.63 | 0.432 |

DETAIL 3 | HANDHOLE

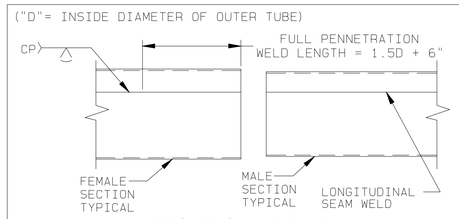



RADIAL INDEX



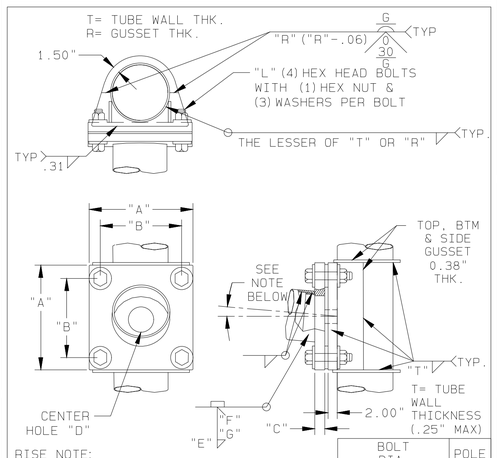

| SPAN (FT) | BASE SECTION | | END SECTION | | |
|---|---|---|---|---|---|
| | LENGTH (FT) | THK. (IN) | BASE DIA. (IN) | LENGTH (FT) | GAUGE (IN) |
| 52.00 | 38.50 | 0.239 | 8.26 | 15.60 | 7 |
| 55.00 | 38.50 | 0.239 | 8.26 | 18.60 | 7 |
| 60.00 | 38.50 | 0.239 | 8.26 | 23.60 | 7 |
| 65.00 | 22.99 | 0.219 | 12.00 | 44.58 | 7 |
| 70.00 | 26.56 | 0.219 | 12.00 | 46.01 | 7 |

DETAIL 4 | 52'-70' SIGNAL ARM SLIP JOINT




52'-70' MAST ARM
WELD REINFORCEMENT

DETAIL 5 | MAST ARM WELD REINFORCEMENT

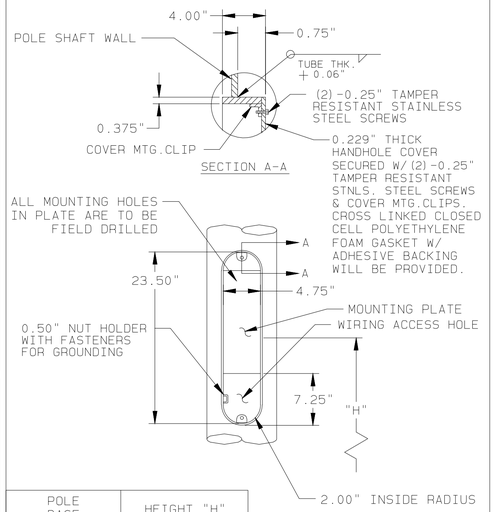



RISE NOTE:
RISE SHALL BE BUILT IN THE MOUNTING PLATE ATTACHED TO THE ARM. RISE IN MTG PLATES MAY VARY DEPENDING UPON POLE SIZE AND MAST ARM LOADING.

| BOLT DIA. "L" | POLE TYPE |
|---|---|
| 1.25" X 6.25" | 1,2 |
| 1.50" X 7.00" | 3 |

| ARM SHAFT WALL THK. | ARM-TO-PLATE WELD "E" | BEVEL "F"X"G" |
|---|---|---|
| ALL | (ARM THK.+.25") X ARM THK. | .19" X 30° |

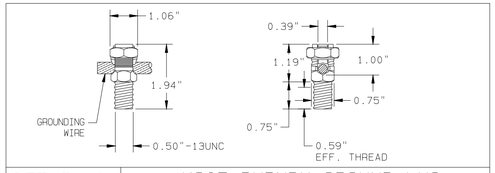
DETAIL 6 | SIGNAL ARM ATTACHMENT



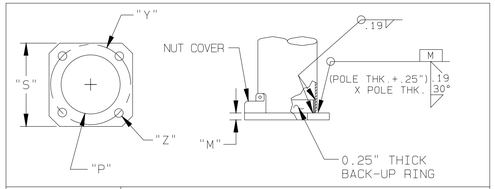

| POLE BASE DIA. (IN.) | HEIGHT "H" TO BOTTOM OF BASEPLATE |
|---|---|
| 12.50 | 2'-1" |
| 15.50 | 2'-4" |
| 17.50 | 2'-6" |

NOTE:
TERMINAL STRIPS BY OTHERS

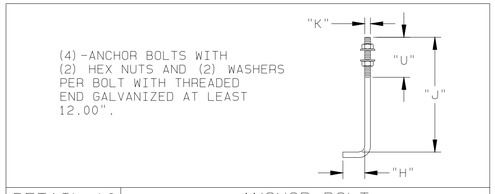
DETAIL 7 | HANDHOLE




DETAIL 8 | KC25 BURNDY GROUND LUG




DETAIL 9 | POLE BASE




DETAIL 10 | ANCHOR BOLT

TITLE
JOPLIN, MISSOURI
TRAFFIC SIGNAL STRUCTURES
AASHTO 2013

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(402) 359-2201

PAGE NUMBER: 2 OF 2
DRAWING NUMBER: DB01436
REV:


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Olsson - Civil Engineering
Missouri Certificate of Authority # 001592
1027 S. Main Street, Suite 503
Joplin, MO 64801
TEL 417.781.0643
www.olsson.com


STATE OF MISSOURI
JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER
01/11/26

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

SIGNAL DETAILS
9TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.: F_TRS-DTLS_02300893.DWG
date: 02/11/2026

SHEET
100 of 162

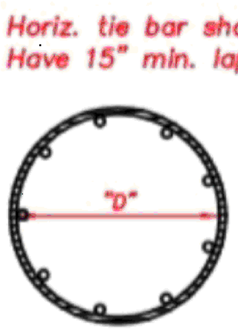
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DATE: Apr 17, 2026 1:52pm XREFS: F_PTBLK_02300893

# Construction _ Pole Foundation Measurements

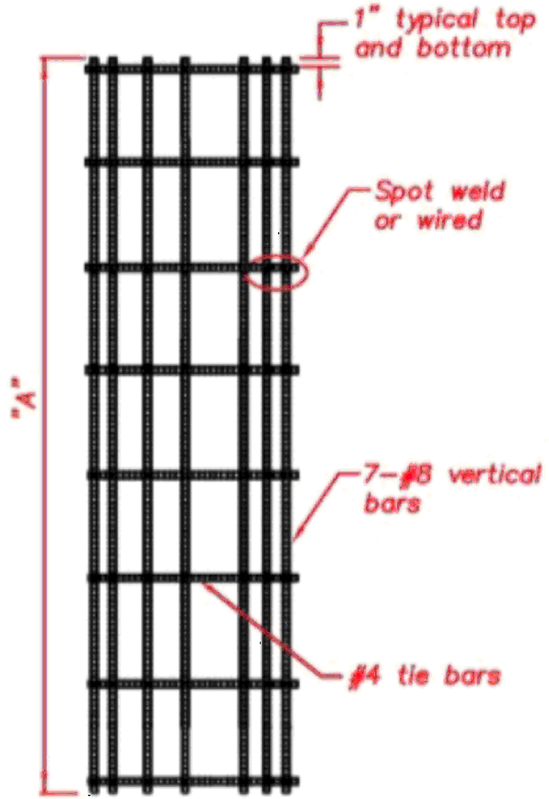
| Pole Base Sizing Chart | |
|---|---|
| Mastarm Length | Base Size |
| < 38' | 8' – 0" base * |
| 38' to 44' | 10' – 0" base * |
| 46' to 54' | 12' – 0" base * |
| 56' to 64' | 15' – 0" base * |
| 66' to 70' | 18' – 0" base * |
| > 70' | Requires special design * |

(* Unless otherwise noted in plans)

| Horizontal Rebar | | | |
|---|---|---|---|
| Pole Fnd. Dia. | Pole Fnd. Dia. | Rebar Cir. "D" | Spacing |
| 24" | 30" | 20" | 12" MAX. |
| 36" | 8'–12' | 30" | 12" MAX. |
| 36" | 15' | 30" | 9" MAX. |
| 36" | 18' | 30" | 6" MAX. |




| Vertical Rebar | |
|---|---|
| Pole Fnd. Depth | Length "A" |
| 30" | 2'–2" |
| 8'–0" | 7'–8" |
| 10'–0" | 9'–8" |
| 12'–0" | 11'–8" |
| 15'–0" | 14'–8" |
| 18'–0" | 17'–8" |





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|---|---|---|---|

REVISIONS

SIGNAL DETAILS
9TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

drawn by: SRH
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SHEET
101 of 162


DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\TRAFFIC SIGNAL PLANS AND DETAILS\F_TRS-DTLS_02300893.dwg USER: jpudlowski
DATE: Apr 17, 2026 1:52pm XREFS: F_PTBLK_02300893

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: SEE DETAIL SHEET FOR SIGNAL POLE FOUNDATION BASE INFO | BASE: C | BASE: CONCRETE** (CU.YDS.) | PULL BOX: PREFORMED CLASS 1 | PREFORMED CLASS 2 | PREFORMED CLASS 3 | PREFORMED CLASS 5 | CONCRETE STANDARD | CONCRETE DOUBLE, TYPE A | CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST: TOP MOUNT POST 8 FT. | POST: TOP MOUNT POST 15 FT. | TYPE C & CL: ARM LENGTH 18 | ARM LENGTH 35 | ARM LENGTH 34 | ARM LENGTH A | SIGNAL SPACING B | SIGNAL SPACING C | SIGNAL SPACING D | SIGNAL SPACING D' | SIGN SPACING B | SIGN SPACING C | SIGN SPACING D | SIGN SPACING D' | TYPE B & BL: ARM LENGTH E | ARM LENGTH K | ARM LENGTH E | ARM LENGTH K | ARM LENGTH E | ARM LENGTH K | LEFT ARM E: SIGNAL SPACING F | SIGNAL SPACING G | SIGNAL SPACING H | SIGNAL SPACING H' | LEFT ARM E: SIGN SPACING F | SIGN SPACING G | SIGN SPACING H | SIGN SPACING H' | RIGHT ARM K: SIGNAL SPACING F | SIGNAL SPACING G | SIGNAL SPACING H | SIGNAL SPACING H' | RIGHT ARM K: SIGN SPACING F | SIGN SPACING G | SIGN SPACING H | SIGN SPACING H' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

## CONDUIT (WITH #14 TRACER WIRE)

| FROM | TO | CENTER TO CENTER DISTANCE | LOOP DET. | TRENCH | | | PUSHED | | | MEDIAN | | | ON STRUCTURE | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | |
| Ø | CONT | 7 | | | 15 | | | | | | | | | | |
| CONT | BOX 1 | 20 | | 24 | | 48 | | | | | | | | | 2-4" Conduit |
| BOX 1 | BOX 2 | 174 | | | | | | | 173 | | | | | | |
| BOX 1 | BOX 4 | 92 | | | | | | | 91 | | | | | | |
| BOX 4 | BOX 3 | 168 | | | | | | | 167 | | | | | | |
| | | | | | | | | | | | | | | | |
| BOX 1 | POLE 1 | 6 | | | 10 | | | | | | | | | | |
| BOX 1 | POLE 5 | 7 | | | 11 | | | | | | | | | | |
| BOX 2 | POLE 2 | 6 | | | 10 | | | | | | | | | | |
| BOX 2 | POLE 6 | 7 | | | 11 | | | | | | | | | | |
| BOX 4 | POLE 4 | 15 | | | 19 | | | | | | | | | | |
| BOX 4 | POLE 8 | 4 | | 8 | | | | | | | | | | | |
| BOX 3 | POLE 3 | 20 | | | 24 | | | | | | | | | | |
| BOX 3 | POLE 7 | 7 | | | 11 | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| SUBTOTALS | | | | 32 | 111 | 48 | | | 431 | | | | | | |
| TOTAL | | | | 34 | 117 | 50 | | | 453 | | | | | | |

## CABLE

| FROM | TO | CENTER TO CENTER DISTANCE | POWER | | CONTROL | | | | CLOSED LOOP INTERCONNECT | CONTROL | DETECTOR | | | CAMERA/RADAR | | OGL ANTENNA CABLE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3-1c #4 | 3-1c #8 | 2c #14 | 5c #14 | 7c #14 | 3c #16 | 3 PAIR #16 | 1c #6 | 1c #14 IN DUCT | 2c #14 LEAD-IN CABLE | EVP CABLE * | CCTV CABLE | RADAR CABLE | |
| Ø | CONT | 7 | 23 | | | | | | | | | | | | | |
| CONT | 21 | 26 | | | | | 72 | | | 40 | | | | | | |
| CONT | 22 | 26 | | | | | 53 | | | | | | | | | |
| CONT | 41 | 200 | | | | | 53 | | | 220 | | | | | | |
| CONT | 42 | 200 | | | | | 263 | | | | | | | | | |
| CONT | 43 | 200 | | | | | 233 | | | | | | | | | |
| CONT | 61 | 300 | | | | | 358 | | | 326 | | | | | | |
| CONT | 62 | 300 | | | | | 339 | | | | | | | | | |
| CONT | 81 | 127 | | | | | 50 | | | 147 | | | | | | |
| CONT | 82 | 127 | | | | | 187 | | | | | | | | | |
| CONT | 83 | 127 | | | | | 160 | | | | | | | | | |
| CONT | 23 | 27 | | | | 51 | | | | 41 | | | | | | |
| CONT | 85 | 27 | | | | 51 | | | | | | | | | | |
| CONT | 44 | 201 | | | | 231 | | | | 221 | | | | | | |
| CONT | 24 | 201 | | | | 231 | | | | | | | | | | |
| CONT | 63 | 287 | | | | 323 | | | | 313 | | | | | | |
| CONT | 45 | 287 | | | | 323 | | | | | | | | | | |
| CONT | 84 | 116 | | | | 146 | | | | 136 | | | | | | |
| CONT | 64 | 116 | | | | 146 | | | | | | | | | | |
| CONT | PB 24 | 27 | | | 50 | | | | | | | | | | | |
| CONT | PB 84 | 27 | | | 50 | | | | | | | | | | | |
| CONT | PB 45 | 201 | | | 230 | | | | | | | | | | | |
| CONT | PB 23 | 201 | | | 230 | | | | | | | | | | | |
| CONT | PB 64 | 287 | | | 322 | | | | | | | | | | | |
| CONT | PB 44 | 287 | | | 322 | | | | | | | | | | | |
| CONT | PB 85 | 116 | | | 145 | | | | | | | | | | | |
| CONT | PB 63 | 116 | | | 145 | | | | | | | | | | | |
| CONT | EVP 1 | 200 | | | | | | | | | | | 267 | | | |
| CONT | EVP 2 | 127 | | | | | | | | | | | 191 | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| SUBTOTALS | | | 23 | 0 | 1494 | 1502 | 1768 | 0 | 0 | 1444 | 0 | 0 | 458 | 0 | 0 | 0 |
| TOTAL | | | 30 | 0 | 1570 | 1580 | 1860 | 0 | 0 | 1520 | 0 | 0 | 490 | 0 | 0 | 0 |


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PROFESSIONAL ENGINEER
02/11/26

REVISIONS

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SIGNAL QUANTITIES (D-37B)
9TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2026

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no: F_TRS-DTLS_02300893.DWG
date: 02/11/2026

SHEET
103 of 162

D-37B

DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\TRAFFIC SIGNAL PLANS AND DETAILS\F_TRS-DTLS_02300893.dwg USER: jpudlowski
DATE: Apr 17, 2026 1:54pm XREFS: F_PTBLK_02300893

## POWER SUPPLY

| LOCATION | | | POWER SUPPLY ASSEMBLY | | CIRCUIT BREAKER TRIP RATING* | | | | LIGHTING CONTROL * (ON POWER SUPPLY) | | SERVICE POLE | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CONTROLLER | | POWER SUPPLY DISCONNECT | | | | | |
| APPROACH | STATION | OFFSET | DRAWING 902.15 | DRAWING | AUXILIARY BREAKER | CONT & SIGNAL LAMS | MAIN BREAKER | | 120 VOLT CONTROL CABINET | MAIN BREAKER | CONTRACT FURNISH | UTILITY COMPANY |
| | | | | | | | SIGNALS | LIGHTING | | | | |
| Main Street | 105+18.59 | 63.8' LT | Type | | 15 Amps | 30 Amps | 20 Amps | Amps | | Amps | Cl. Ft. | LIBERTY |
| | | | Type | | 15 Amps | Amps | Amps | Amps | | Amps | Cl. Ft. | |

| LOCATION | | | SYSTEM MASTER (CLOSER LOOP) | | ACTUATED | | ON-OFF* SWITCH | | COORDINATION INTERFACE * | | | | | | TIME * CLOCK | NEMA CABINET TYPE * | | | NEMA CABINET TYPE | | 170 SOFTWARE * | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TYPE | | 12C/7C HARDWIRE (1) | | TIME BASE | CLOSED LOOP | | EXISTING WIRELESS | | | | | | | | |
| APPROACH | STATION | OFFSET | NEMA | 170 | McCain eX2 | 170 | I | II | MASTER | LOCAL | | NEMA | 170 | | | E | EV | DOUBLE | 332L | 336S | BITRAN | WAPITI |
| Main Street | 105+18.87 | 56.9' LT | | | 1 | | | | | | | | | | | | 1* | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

*VERIFY SIGNAL CABINET FOUNDATION WITH CITY OF JOPLIN SIGNAL DEPARTMENT

## SIGNAL SIGNS

| QUANTITY | MUTCD SIGN NUMBER | SIZE | AREA | SIGN TOTAL AREA ITEM NO. 90208.33 | SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34 |
|---|---|---|---|---|---|
| | | INCHES | SQ.FT. | SQ.FT. | EA. |
| | R10-10L | 24 X 30 | 5.0 | | |
| | R10-10R | 24 X 30 | 5.0 | | |
| | R3-5L | 30 X 36 | 7.5 | | |
| | R3-5R | 30 X 36 | 7.5 | | |
| | R3-5A | 30 X 36 | 7.5 | | |
| | R3-6L | 30 X 36 | 7.5 | | |
| | R3-6R | 30 X 36 | 7.5 | | |
| | R3-2 | 24 X 24 | 4.0 | | |
| | R3-1 | 24 X 24 | 4.0 | | |
| | R3-3 | 24 X 24 | 4.0 | | |
| | R3-4 | 36 X 36 | 9.0 | | |
| | R10-5 | 24 X 30 | 5.0 | | |
| | R10-12 | 24 X 30 | 5.0 | | |
| | R10-12A | 30 X 36 | 7.5 | | |
| 2 | D3-1 (9th Street)*** | 90 X 18 | 11.3 | 22.5 | 2 |
| 2 | D3-1 (Main Street)*** | 72 X 18 | 9.0 | 18.0 | 2 |
| 4 | R10-3E(L) | 9 X 15 | 0.9 | 3.8 | 4 |
| 4 | R10-3E(R) | 9 X 15 | 0.9 | 3.8 | 4 |
| | R10-3E | 9 X 15 | 0.9 | | |
| | R10-11A | 24 X 30 | 7.5 | | |
| | R10-13 | 36 X 24 | 6.0 | | |
| | R10-27A | 30 X 36 | 7.5 | | |
| | R10-15R | 30 X 36 | 7.5 | | |
| | | | | | |
| | | | SUBTOTAL | 48.0 | 12 |
| | | | TOTAL | 48.0 | 12 |

## DETECTOR SCHEDULE

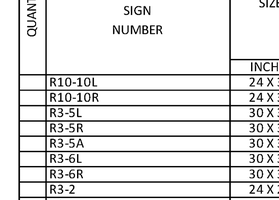
| DETECTOR NUMBER | APPROACH | TYPE | | | |
|---|---|---|---|---|---|
| | | ADA ACCESSIBLE PUSH BUTTON | VIDEO* | | |
| | | | NO. DEVICES | DELAY/ EXTEND * | CALL UNIT * |
| 23, 85 | POLE 5 | 2 | | | |
| 24, 44 | POLE 6 | 2 | | | |
| 63, 45 | POLE 7 | 2 | | | |
| 64, 84 | POLE 8 | 2 | | | |
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| TOTAL | | 8 | | | |

NOTE: ALL SIGNAL WORK LISTED HEREIN IS TO BE BID UNDER THE LUMP SUM TRAFFIC SIGNAL PAY ITEM FOR EACH INTERSECTION.

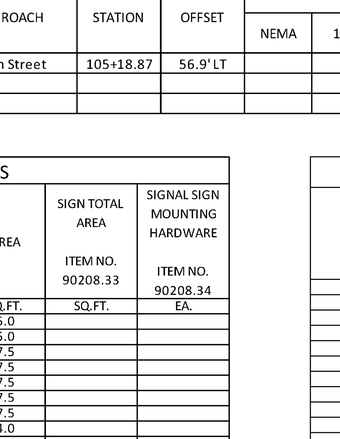
*CABINET SHALL BE SUPPLIED BY CITY OF JOPLIN AND INCLUDE BATTERY BACKUP, CABINET AND EQUIPMENT.




NOTES:
REBAR SHALL BE GRADE 40 MEETING THE REQUIREMENTS OF SUBSECTION 1601 IN THE STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, MISSOURI DEPT. OF TRANSPORTATION.

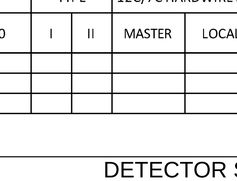



PLAN VIEW




FOR CONTROLLER CABINETS WITH HEIGHTS FROM 4'-4" TO 6'-0"

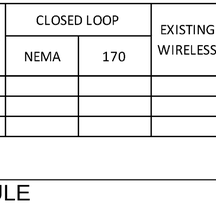
TYPE EV



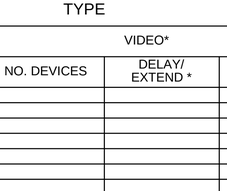

CABINET FRONT

NOTES:
1. A MINIMUM OF 15' OF ADDITIONAL SLACK SHALL BE PULLED FOR EACH CABLE RUN INTO CABINET BASE.
2. ALL CONDUITS SHALL BE CUT FLUSH WITH CONCRETE.

CONDUIT ENTRY DETAILS



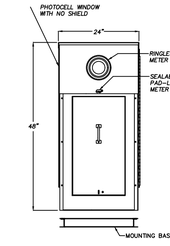

ISOMETRIC VIEW



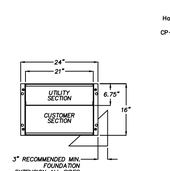

SIDE VIEW NOT TO SCALE

NOTES:
1. REBAR SHALL BE GRADE 40, MEETING THE REQUIREMENTS OF SUBSECTION 1601 IN THE STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, KANSAS DEPARTMENT OF TRANSPORTATION.
2. PROVIDE (2) GROUND RODS AS REQUIRED BY N.E.C. TO GROUND.
3. ENSURE THAT THE CONCRETE DOES NOT COVER THE BY-PASS STREETLIGHT INDICATOR PRIOR TO POURING CONCRETE.
4. CONCRETE SLAB TO PROVIDE SEMI-DRY WORKING AREA IN FRONT OF CABINET.

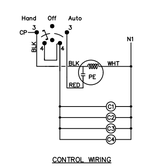
CONCRETE FOUNDATION FOR CONTROL CABINET

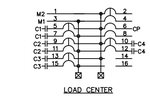


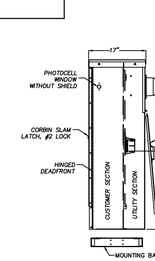

CABINET – REAR VIEW



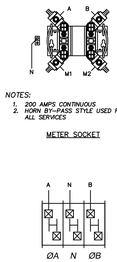

MOUNTING BASE DETAIL




CABINET – SIDE VIEW



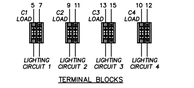

NOTES:
1. 200 AMPS CONTINUOUS
2. HORN BY-PASS STYLE USED FOR ALL SERVICES

METER SOCKET

| CIRCUIT DIRECTORY | | | |
|---|---|---|---|
| NO. | DESCRIPTION | AMP | POLE |
| 1,3 | SPACE NOT AVAILABLE | | |
| 2,4 | MAIN | 200 | 2 |
| 5,7 | CONTACTOR 1 | 40 | 2 |
| 6 | CONTROL | 20 | 1 |
| 8 | OPEN | 20 | 1 |
| 9,11 | CONTACTOR 2 | 40 | 2 |
| 10,12 | CONTACTOR 4 | 40 | 2 |
| 13,15 | CONTACTOR 3 | 40 | 2 |
| 14 | SPACE AVAILABLE | | 1 |
| 16 | SPACE AVAILABLE | | 1 |




SERVICE TERMINATION




TERMINAL BLOCKS

NOTES:
1. FOR INSTALLATIONS WHERE A METER PEDESTAL IS REQUIRED, STREETLIGHT CONTROL CABINET WILL NOT HAVE A METER SOCKET.
2. CONTRACTOR TO INSTALL ASTRONOMICAL TIME CLOCK IN STREET LIGHT CONTROL CABINET.
3. MATERIAL SUBMITTALS MUST BE APPROVED BY CITY OF JOPLIN ENGINEER PRIOR TO CONTROL CABINET INSTALLATION.
4. FOUNDATION FOR CONTROL CABINET MUST BE ACCEPTED BY CITY OF JOPLIN

PAD MOUNTED STREETLIGHT CONTROL CABINET

NOTES:
1. 120/240 VAC, 1-PHASE, 60 Hz, 3-WIRE.
2. C1–C4 – ELECTRICALLY HELD, 60 AMP, 2 POLE CONTACTORS WITH 120V COIL.
3. LIGHTING CONTROL PHOTOCELL PROVIDED BY OTHERS; 10A MAX. LOAD.
4. NO PHOTOCELL LIGHT SHIELD.
5. TERMINAL BLOCKS ARE 2 POSITION, AND ABLE TO ACCEPT #14–#2 AWG.
6. CONNECTIONS MAY BECOME LOOSE DURING SHIPPING, TIGHTEN ALL CONNECTIONS PRIOR TO ENERGIZING.

CONTROL CABINET WIRING DETAILS


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Joplin, MO 64801
TEL 417.781.0643
www.olsson.com


STATE OF MISSOURI
JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER
01/07/26

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

SIGNAL QUANTITIES (D-37C)
9TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2026

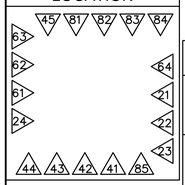
drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.: F_TRS-DTLS_02300893.DWG
date: 02/11/2026

SHEET
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D-37C


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DATE: Apr 17, 2026 1:54pm XREFS: F_PTBLK_02300893

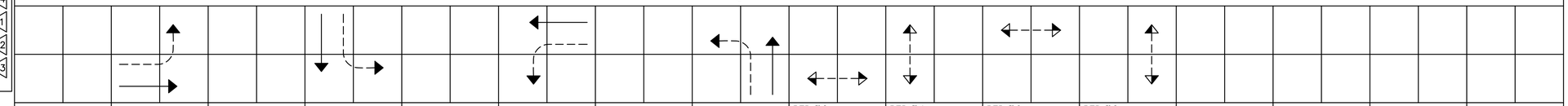
SIGNAL FACE LOCATION



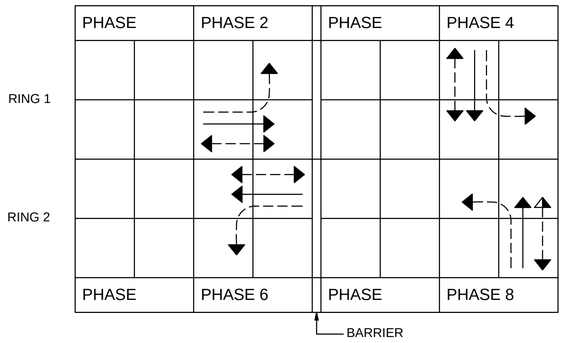




## TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



| | PHASE | PHASE 2 | PHASE | PHASE 4 | PHASE | PHASE 6 | PHASE | PHASE 8 | PED Ø 2 OVERLAP | PED Ø 4 OVERLAP | PED Ø 6 OVERLAP | PED Ø 8 OVERLAP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FACE NUMBERS | | 21 22 | | 41 42 43 | | 61 62 | | 81 82 83 | 23 24 | 44 45 | 63 64 | 84 85 | FACE NUMBERS |
| SIGNAL INDICATIONS R | | R R | | R R R | | R R | | R R R | DW DW | DW DW | DW DW | DW DW | R |
| SIGNAL INDICATIONS Y | | Y Y | | Y Y Y | | Y Y | | Y Y Y | FDW FDW | FDW FDW | FDW FDW | FDW FDW | Y |
| SIGNAL INDICATIONS FYA | | | | | | | | | | | | | FYA |
| SIGNAL INDICATIONS G | | G G | | G G G | | G G | | G G G | W W | W W | W W | W W | G |
| DETECTOR ASSIGNMENTS | | 21 22 | | 41 42 43 | | 61 62 | | 81 82 83 | | | | | DETECTOR ASSIGNMENTS |
| DETECTOR ASSIGNMENTS (PEDS. ONLY) | | | | | | | | | PB PB 24 23 | PB PB 45 44 | PB PB 64 63 | PB PB 85 84 | |
| OVERLAP PARENT PHASES | | | | | | | | | | | | | |




RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

## LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY-YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

| FLASHING OPERATION | |
|---|---|
| 9TH STREET | FR |
| MAIN STREET | FR |

| CONTROLLER TYPE | |
|---|---|

## TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

MAIN STREET WITH 9TH STREET


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STATE OF MISSOURI
JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER
01/27/26

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

SIGNAL PHASING (D-38A)
9TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no: F_TRS-DTLS_02300893.DWG
date: 02/11/2026

SHEET
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D-38A


DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\TRAFFIC SIGNAL PLANS AND DETAILS\F_TRS-DTLS_02300893.dwg USER: jpudlowski
DATE: Apr 17, 2026 1:54pm XREFS: F_PTBLK_02300893

## TRAFFIC SIGNALS LEGEND

| | | | |
|---|---|---|---|
| CONTROLLER | PUSH BUTTON DETECTOR | CONDUIT MEDIAN | |
| JUNCTION BOX | PREFORMED PULL BOX TYPE 1 | CONDUIT PUSHED | |
| POWER SOURCE | PREFORMED PULL BOX TYPE 2 | CONDUIT BRIDGE | |
| POWER SUPPLY | CONCRETE PULL BOX TYPE 1 | CONDUIT EXISTING | |
| WOOD POST | CONCRETE PULL BOX TYPE 2 | CONDUIT TRENCHED | |
| SIGNAL HEAD (OPT LIM CONV) | ITS PULL BOX TYPE 2 | SPAN WIRE | |
| SIGNAL HEAD (OPT LIM) | ITS PULL BOX TYPE 5 | MAST ARM – TYPE A BASE | |
| SIGNAL HEAD (PEDESTRIAN) | SIGNS | MAST ARM – TYPE C BASE | |
| SIGNAL HEAD (STANDARD) | EMERGENCY VEHICLE DETECTOR | MAST ARM – TYPE F BASE | |
| SIGNAL HEAD (FUTURE) | STOP BAR RADAR DETECTOR | TYPE C BASE | |
| | ADVANCED RADAR DETECTOR | PREFORMED PULL BOX TYPE 5 | |
| | RADAR DETECTION ZONE | DETECTION CAMERA | |
| | FUTURE VIDEO DETECTION ZONE | | |

*GENERAL NOTES:*

1. ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 902 (TRAFFIC SIGNALS) UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH CITY STAFF TO MINIMIZE DOWNTIME OF SIGNAL OPERATIONS AND TIME–FRAME OF CONSTRUCTION. ALL MATERIALS AND WORK DEPICTED IN THIS PLAN SHALL BE BID UNDER THE LUMP SUM ITEM "TRAFFIC SIGNAL MODIFICATION" AND CONSTITUTE ALL MATERIALS AND EQUIPMENT REQUIRED TO PERFORM THE WORK SHOWN IN THE PLAN SHEET PROVIDED.

3. ALL CONSTRUCTION SIGNS AND BARRICADES MUST BE UTILIZED AND MAINTAINED IN COMPLIANCE WITH PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2023 EDITION, OR LATEST REVISION THEREOF.

4. FINAL LOCATION OF POLE BASES, CONTROLLER FOUNDATIONS, AND PULL BOXES ARE TO BE FIELD DETERMINED UPON FINAL APPROVAL OF THE ENGINEER. PLACEMENT OF BASES AND PULL BOXES WITHOUT PRIOR APPROVAL THAT REQUIRE ADJUSTMENT SHALL BE RELOCATED AS DIRECTED AT NO ADDITIONAL EXPENSE TO THE CITY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING AND HOUSING TRAFFIC SIGNAL POLES PRIOR TO INSTALLATION.

6. ALL TRAFFIC SIGNAL POLES SHALL BE POWDER COATED BLACK PRIOR TO INSTALLATION.

10TH STREET
MAIN STREET
MIOVISION CAMERA TO BE FURNISHED AND INSTALLED BY CITY
D3-1 "MAIN STREET"
R10-27A SIGN
D3-1 "10TH STREET"
CONTRACTOR TO COORDINATE WITH LIBERTY ELECTRIC FOR TIE INTO POWER.
108+00
101+00
SCALE IN FEET


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STATE OF MISSOURI
JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|
| | | | |

REVISIONS

TRAFFIC SIGNAL PLANS
10TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.: F_TRS_02300893.DWG
date: 02/11/2026

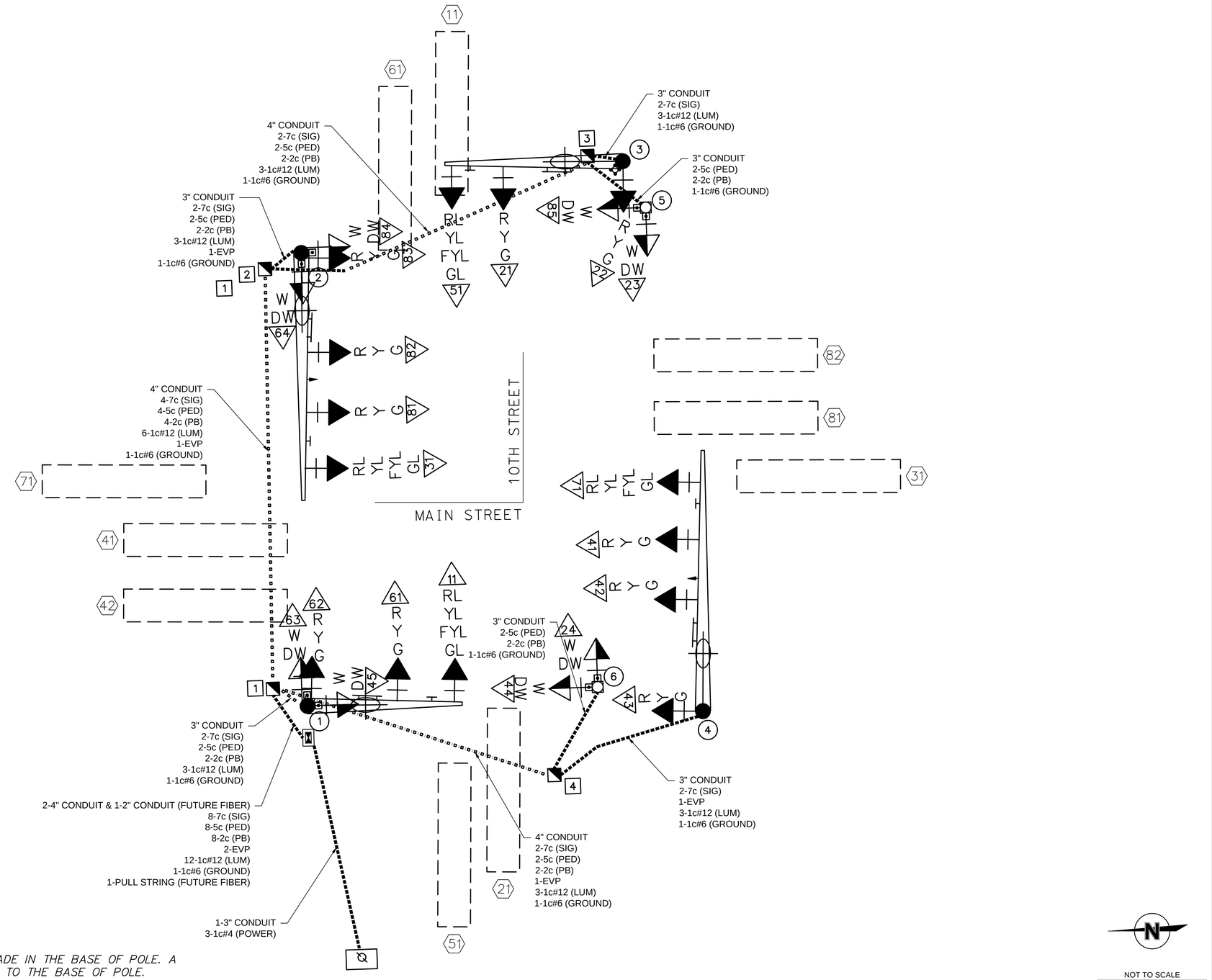
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USER: jpudlowski F_PTBLK_02300893 F_XBASE_02300893 F_SAS-BASE_02300893 T_PBASE_02300893

## LEGEND

- CONDUIT PUSHED
- CONDUIT TRENCHED
- X–Xc — MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
- LIC — #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- POST WITH MAST ARM AND LUMINAIRE
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SOURCE
- LIGHTING CONTROLLER
- P.S. — POWER SUPPLY
- U.P.S. — UNINTERRUPTIBLE POWER SUPPLY
- WIRELESS ACCESS UNIT OR SUBSCRIBER UNIT
- RADAR DETECTOR

## WIRING DIAGRAM




*GENERAL NOTES:*

1. *CONNECTIONS FOR ALL SIGNAL HEADS WILL BE MADE IN THE BASE OF POLE. A SEPARATE 7C CABLE WILL BE RUN FROM EACH HEAD TO THE BASE OF POLE.*

2. *4" CONDUIT SHALL BE HDPE SDR-9 OR RIGID.*

NOT TO SCALE


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JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

TRAFFIC SIGNAL PLANS
10TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

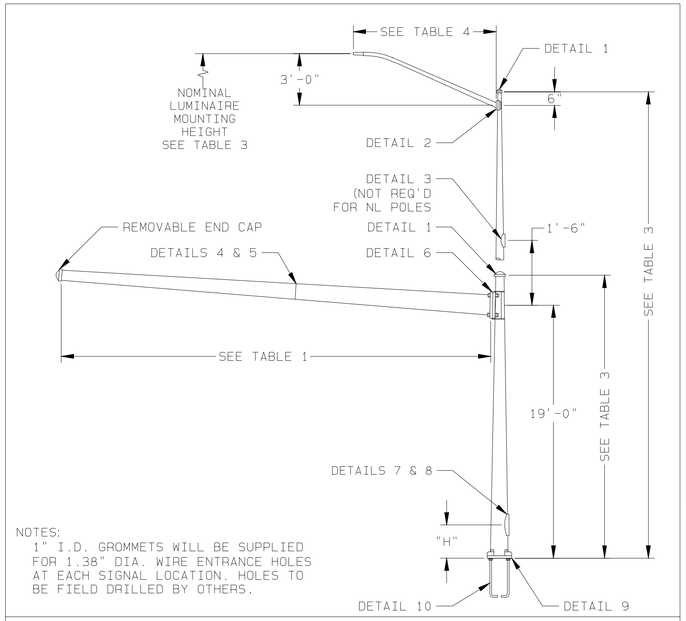
2026

JOPLIN, MO

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.: F_TRS_02300893.DWG
date: 02/11/2026

SHEET
107 of 162

DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\TRAFFIC SIGNAL PLANS AND DETAILS\F_TRS_02300893.dwg
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USER: jpudlowski




NOTES:
1" I.D. GROMMETS WILL BE SUPPLIED FOR 1.38" DIA. WIRE ENTRANCE HOLES AT EACH SIGNAL LOCATION. HOLES TO BE FIELD DRILLED BY OTHERS.

JOPLIN POLE SERIES

JOPLIN-1-30-MR-15
- JOPLIN POLE SERIES
- TYPE 1,2,OR 3
- SIGNAL ARM SPAN (FT) (SEE TABLE 1)
- UPRIGHT TYPE NL,LR,MR,HR (SEE TABLE 3)
- LUMINAIRE ARM SPAN 6',8',10',12',15' (SEE TABLE 4)

DESIGNATION KEY

## FINISH DATA

| STANDARD FINISH | OPTIONAL FINISH |
|---|---|
| SYSTEM: GALVANIZED (GV) | SYSTEM: V-PRO 54 (VP54) LIQUID (ALTERNATE) |
| BASE COAT: HOT-DIP GALVANIZED TO ASTM A123 | BASE COAT: HOT-DIP GALVANIZED TO ASTM A123 |
| PRIME COAT: NONE | PRIME COAT: POLYAMIDOAMINE OR POLYAMIDEE EPOXY |
| FINISH COAT: NONE | FINISH COAT: ALIPHATIC ACRYLIC POLYURETHANE WITH UV PACKAGE |
| COLOR: NONE | COLOR: BLACK |
| SPEC: F-1 | SPEC: F-604A |

## TABLE 2: MATERIAL DATA

| COMPONENT | ASTM DESIGNATION | MIN. YIELD (KSI) |
|---|---|---|
| ALL TAPERED TUBES | A595 GR.A OR A572 | 55 |
| BASE PLATE | A36 | 36 |
| SIMPLEX PLATES | A36 | 36 |
| LUM ARM ATTACHMENT | A36 | 36 |
| LUMINAIRE CONN. BOLTS | SAE GR.5 | -- |
| ANCHOR BOLTS | F1554 GR.55 | 55 |
| GALVANIZING-HARDWARE | F2329 | -- |
| | | |
| | | |

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.

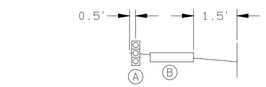
VIBRATION DISCLAIMER

DESIGN CRITERIA:
THE MAST ARM TRAFFIC STRUCTURES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LOADING AND THE ALLOWABLE STRESS REQUIREMENTS OF THE 2013 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", SIXTH EDITION, LTS-6. THE WIND LOADS WERE CALCULATED FROM A BASIC WIND VELOCITY OF 90 MPH WITH A RECURRENCE INTERVAL OF 50 YEARS, AND A FATIGUE CATEGORY OF 2. THE FATIGUE LOADS WERE CALCULATED ON THE REQUIREMENTS OF SECTION 11 OF THE CODE, AND THE FOLLOWING CONDITIONS:

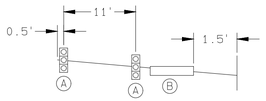
- STRUCTURES ARE DESIGNED TO RESIST NATURAL WIND GUSTS BASED ON THE YEARLY MEAN WIND VELOCITY OF 11.2 MPH.
- STRUCTURES ARE NOT DESIGNED TO RESIST GALLOPING-INDUCED CYCLIC LOADS.
- TRUCK-INDUCED GUST LOADS ARE EXCLUDED PER THE REQUIREMENTS OF THE CODE.

**NOTE:
UPON INITIAL FIELD ASSEMBLY OF THE MAST-ARM'S FIRST SECTION'S BUTT PLATE TO THE MAST-ARM VERTICAL POLE'S BUTT PLATE, IF THE END USER DETERMINES THAT THERE IS A SUFFICIENT GAP AT A BOLT HOLE SUCH THAT THERE WILL NOT BE FACE-TO-FACE CONTACT BETWEEN THE TWO BUTT PLATES, THEN A WASHER SHALL BE INSERTED TO PROVIDE FACE-TO-FACE CONTACT BETWEEN THE TWO BUTT PLATES IN ACCORDANCE WITH SECTION 5.16 "BOLTED CONNECTIONS" OF THE 2013 EDITION OF AASHTO.

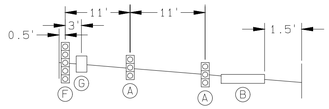
AASHTO 2013 SPECIFICATIONS



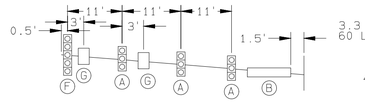

14' THRU 20' MAST ARMS



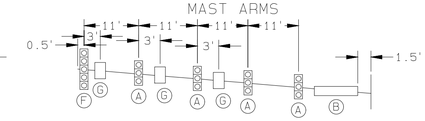

22' THRU 32' MAST ARMS



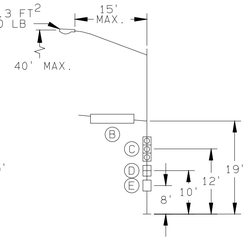

34' THRU 50' MAST ARMS




52' THRU 55' MAST ARMS




60' THRU 70' MAST ARMS




TYPICAL POST LOADING

| DEVICE | DESCRIPTION | PROJ. AREA (FT) | WEIGHT (LBS) |
|---|---|---|---|
| (A) | 12"-3 SEC. SIGNAL WITH BACKPLATES | 8.67 | 30 |
| (B) | 36" X 114" STREET NAME SIGN | 28.50 | 200 |
| (C) | 12"-3 SEC. SIGNAL WITH NO BACKPLATES | 4.08 | 30 |
| (D) | DUAL-2 SEC. PEDESTRIAN SIGNAL | 8.00 | 40 |
| (E) | 30" X 30" POLE MOUNTED SIGN | 6.25 | 13 |
| (F) | 12"-5 SEC. SIGNAL WITH BACKPLATES | 13.33 | 45 |
| (G) | 24" X 30" MAST ARM MOUNTED SIGN | 5.00 | 10 |

LOADING INFORMATION

## TABLE 3: ELEVATION DATA

| ELEVATIONS | TYPE | | |
|---|---|---|---|
| | NO LUMINAIRE (NL) | LOW RISE (LR) | MEDIUM RISE (MR) |
| LUM. MOUNTING HEIGHT | --- | 30'-0" | 35'-0" |
| POLE LENGTH | 20'-6" | 27'-6" | 32'-6" |

## TABLE 4: LUMINAIRE ARM DATA

| SPAN | FIXED END DIA. | FREE END DIA. | GAUGE |
|---|---|---|---|
| 6' | 3.40" | 2.38" | 11 |
| 8' | 3.63" | 2.38" | 11 |
| 10' | 3.89" | 2.38" | 11 |
| 12' | 4.16" | 2.38" | 11 |
| 15' | 4.58" | 2.38" | 11 |

## TABLE 1: POLE AND MAST ARM DATA

| DESIGNATION KEY | | | | | POLE TUBE | | | POLE BASE | | | | ANCHOR BOLT | | | | SIGNAL ARM TUBE | | | | SIGNAL ARM ATTACHMENT DATA | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| POLE SERIES | POLE TYPE | SIGNAL ARM SPAN (FT) | LUMINAIRE ARM TYPE | LUMINAIRE ARM SPAN (FT) | BASE DIA. (IN) | LENGTH (FT) | GAUGE OR THK. (IN) | SQUARE "S" (IN) | BOLT CIRCLE "Y" (IN) | THICKNESS "M" (IN) | CENTER HOLE "P" (IN) | HOLE "Z" (IN) | DIAMETER (IN) "K" | LENGTH (IN) "J" | HOOK (IN) "H" | THREAD LENGTH (IN) "U" | FIXED END DIA. (IN) | FREE END DIA. (IN) | GAUGE OR THK. (IN) | LENGTH (FT) | SQUARE "A" (IN) | BOLT PATTERN "B" (IN) | THK "C" (IN) | CENTER HOLE "D" (IN) |
| JOPLIN | 1 | 14 | NL,LR,MR | (6) THRU (15) | 12.50 | SEE TABLE 3 | 5 | 17.50 | 17.00 | 2.00 | 11.00 | 1.75 | 1.50 | 54.00 | 6.00 | 8.00 | 8.00 | 6.04 | 7 | 14.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 16 | | | | | | | | | | | | | | | 8.00 | 5.76 | 7 | 16.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 18 | | | | | | | | | | | | | | | 8.00 | 5.48 | 7 | 18.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 20 | | | | | | | | | | | | | | | 8.00 | 5.20 | 7 | 20.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 22 | | | | | | | | | | | | | | | 8.00 | 4.92 | 7 | 22.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 24 | | | | | | | | | | | | | | | 8.00 | 4.64 | 7 | 24.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 26 | | | | | | | | | | | | | | | 8.00 | 4.36 | 7 | 26.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 28 | | | | | | | | | | | | | | | 8.00 | 4.08 | 7 | 28.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 30 | | | | | | | | | | | | | | | 8.00 | 3.80 | 7 | 30.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 32 | | | | | | | | | | | | | | | 8.00 | 3.52 | 7 | 32.00 | 17.25 | 14.00 | 2.00 | 6.64 |
| | | 34 | | | | | | | | | | | | | | | 9.00 | 4.24 | 7 | 34.00 | 17.25 | 14.00 | 2.00 | 7.64 |
| JOPLIN | 2 | 36 | NL,LR,MR | (6) THRU (15) | 15.50 | | 0.219 | 20.50 | 20.50 | 2.00 | 13.25 | 2.00 | 1.75 | 84.00 | 6.00 | 8.00 | 10.00 | 4.96 | 7 | 36.00 | 20.75 | 17.50 | 2.00 | 7.00 |
| | | 38 | | | | | | | | | | | | | | | 11.00 | 5.68 | 7 | 38.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 40 | | | | | | | | | | | | | | | 11.00 | 5.40 | 7 | 40.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 42 | | | | | | | | | | | | | | | 12.00 | 6.12 | 7 | 42.00 | 20.75 | 17.50 | 2.00 | 8.75 |
| | | 44 | | | | | | | | | | | | | | | 12.00 | 5.84 | 7 | 44.00 | 20.75 | 17.50 | 2.00 | 8.75 |
| | | 45 | | | | | | | | | | | | | | | 12.50 | 6.06 | 5 | 46.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 48 | | | | | | | | | | | | | | | 12.50 | 5.78 | 5 | 48.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 50 | | | | | | | | | | | | | | | 12.50 | 5.50 | 5 | 50.00 | 20.75 | 17.50 | 2.00 | 8.00 |
| | | 52 | | | | | | | | | | | | | | | 13.00 | 7.61 | SEE DET.3 | 52.00 | 20.75 | 17.50 | 2.00 | 7.00 |
| | | 55 | | | | | | | | | | | | | | | 13.00 | 8.61 | | 55.00 | 20.75 | 17.50 | 2.00 | 7.00 |
| JOPLIN | 3 | 60 | NL,LR,MR | (6) THRU (15) | 17.50 | | 0.250 | 22.50 | 22.50 | 2.00 | 15.75 | 2.25 | 2.00 | 84.00 | 6.00 | 10.00 | 13.00 | 4.96 | SEE DET.3 | 60.00 | 23.75 | 20.00 | 2.50 | 5.00 |
| | | 65 | | | | | | | | | | | | | | | 14.50 | 5.76 | | 65.00 | 23.75 | 20.00 | 2.50 | 6.00 |
| | | 70 | | | | | | | | | | | | | | | 15.00 | 5.56 | | 70.00 | 23.75 | 20.00 | 2.50 | 6.00 |

| REV | DRAWN BY-DATE | CHECK BY-DATE | DESCRIPTION |
|---|---|---|---|
| — | NKL 11/21/24 | NKL 11/21/24 | — — — — — — — — — — — — — — — — |

TITLE: JOPLIN, MISSOURI
TRAFFIC SIGNAL STRUCTURES
AASHTO 2013
10TH AND MAIN STREET

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JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER
02/11/26

REVISIONS

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|---|---|---|---|

SIGNAL DETAILS
10TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

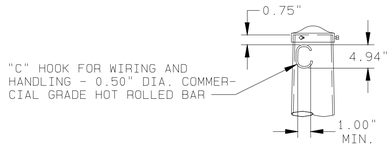
JOPLIN, MO

2026

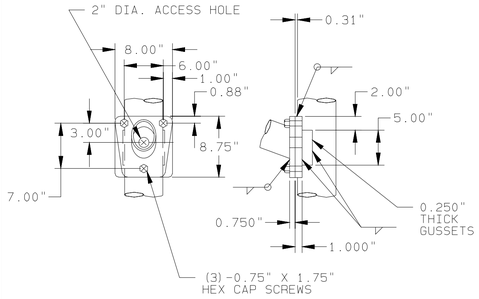
drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.: F_TRS-DTLS_02300893.DWG
date: 02/11/2026

SHEET
108 of 162

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DATE: Apr 17, 2026 1:56pm XREFS: F_PTBLK_02300893

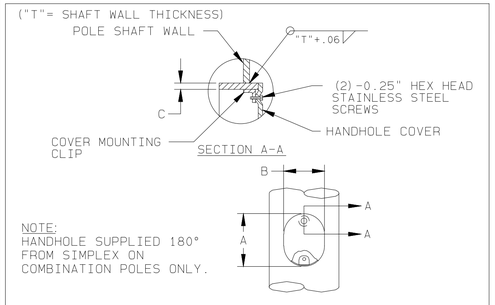



DETAIL 1 | POLE TOP




NOTE:
COVER PLATE TO BE PROVIDED WHEN LUMINAIRE ARM IS NOT ORDERED.

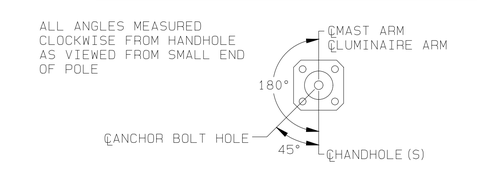
DETAIL 2 | LUMINAIRE ARM ATTACHMENT



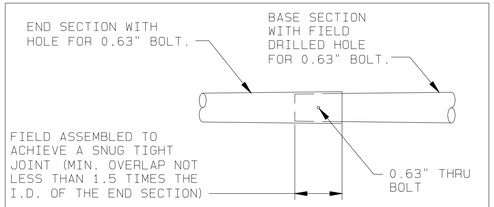

NOTE:
HANDHOLE SUPPLIED 180° FROM SIMPLEX ON COMBINATION POLES ONLY.

| GAUGE OR THK. (IN) | A (IN) | B (IN) | C (IN) |
|---|---|---|---|
| 5 | 7.56 | 5.19 | 0.280 |
| 0.250 | 7.31 | 5.63 | 0.432 |

DETAIL 3 | HANDHOLE

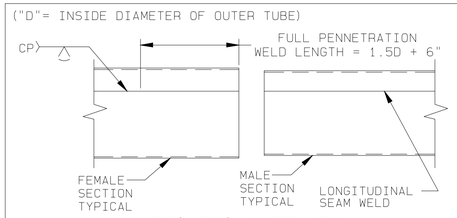



RADIAL INDEX



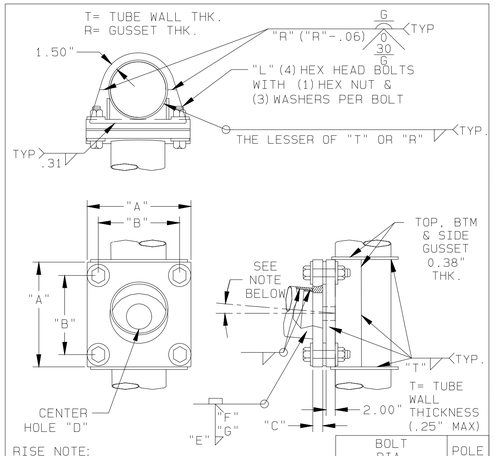

| SPAN (FT) | BASE SECTION | | END SECTION | | |
|---|---|---|---|---|---|
| | LENGTH (FT) | THK. (IN) | BASE DIA. (IN) | LENGTH (FT) | GAUGE (IN) |
| 52.00 | 38.50 | 0.239 | 8.26 | 15.60 | 7 |
| 55.00 | 38.50 | 0.239 | 8.26 | 18.60 | 7 |
| 60.00 | 38.50 | 0.239 | 8.26 | 23.60 | 7 |
| 65.00 | 22.99 | 0.219 | 12.00 | 44.58 | 7 |
| 70.00 | 26.56 | 0.219 | 12.00 | 46.01 | 7 |

DETAIL 4 | 52'-70' SIGNAL ARM SLIP JOINT




52'-70' MAST ARM
WELD REINFORCEMENT

DETAIL 5 | MAST ARM WELD REINFORCEMENT

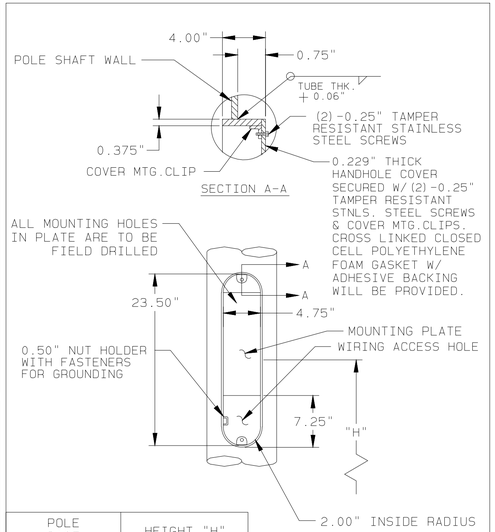



RISE NOTE:
RISE SHALL BE BUILT IN THE MOUNTING PLATE ATTACHED TO THE ARM. RISE IN MTG PLATES MAY VARY DEPENDING UPON POLE SIZE AND MAST ARM LOADING.

| BOLT DIA. "L" | POLE TYPE |
|---|---|
| 1.25" X 6.25" | 1.2 |
| 1.50" X 7.00" | 3 |

| ARM SHAFT WALL THK. | ARM-TO-PLATE WELD "E" | BEVEL "F"X"G" |
|---|---|---|
| ALL | (ARM THK.+.25") X ARM THK. | .19" X 30° |

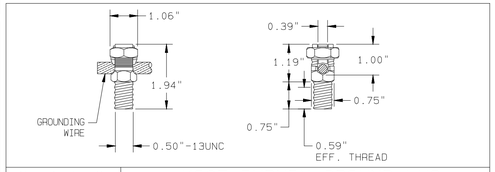
DETAIL 6 | SIGNAL ARM ATTACHMENT



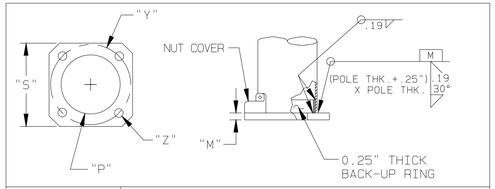

| POLE BASE DIA. (IN.) | HEIGHT "H" TO BOTTOM OF BASEPLATE |
|---|---|
| 12.50 | 2'-1" |
| 15.50 | 2'-4" |
| 17.50 | 2'-6" |

NOTE:
TERMINAL STRIPS BY OTHERS

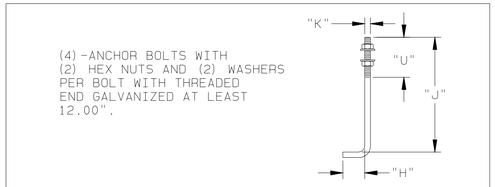
DETAIL 7 | HANDHOLE




DETAIL 8 | KC25 BURNDY GROUND LUG




DETAIL 9 | POLE BASE




DETAIL 10 | ANCHOR BOLT

TITLE
JOPLIN, MISSOURI
TRAFFIC SIGNAL STRUCTURES
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REVISIONS

SIGNAL DETAILS
10TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.: F_TRS-DTLS_02300893.DWG
date: 02/11/2026

SHEET
109 of 162

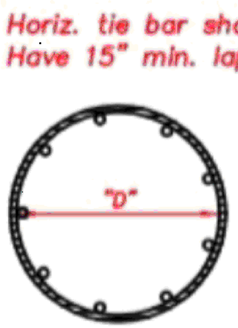
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DATE: Apr 17, 2026 1:56pm XREFS: F_PTBLK_02300893

# Construction _ Pole Foundation Measurements

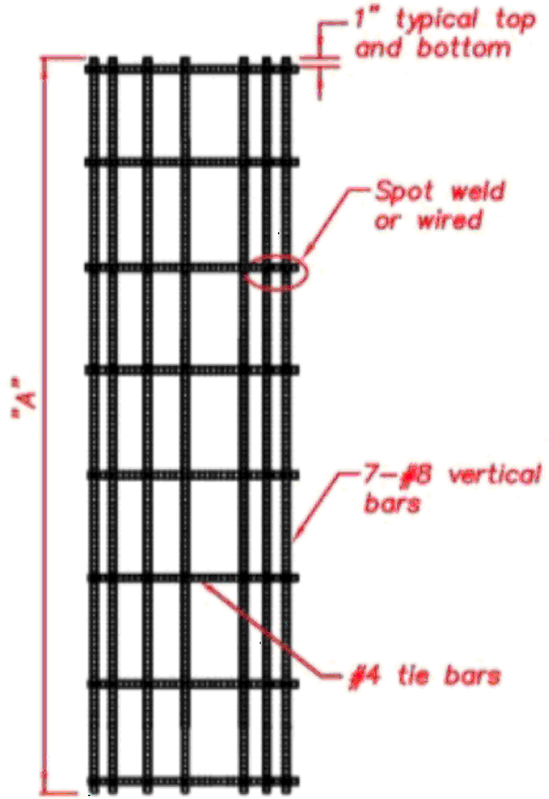
| Pole Base Sizing Chart | |
|---|---|
| Mastarm Length | Base Size |
| < 38' | 8' – 0" base * |
| 38' to 44' | 10' – 0" base * |
| 46' to 54' | 12' – 0" base * |
| 56' to 64' | 15' – 0" base * |
| 66' to 70' | 18' – 0" base * |
| > 70' | Requires special design * |

(* Unless otherwise noted in plans)

| Horizontal Rebar | | | |
|---|---|---|---|
| Pole Fnd. Dia. | Pole Fnd. Dia. | Rebar Cir. "D" | Spacing |
| 24" | 30" | 20" | 12" MAX. |
| 36" | 8'–12' | 30" | 12" MAX. |
| 36" | 15' | 30" | 9" MAX. |
| 36" | 18' | 30" | 6" MAX. |




| Vertical Rebar | |
|---|---|
| Pole Fnd. Depth | Length "A" |
| 30" | 2'–2" |
| 8'–0" | 7'–8" |
| 10'–0" | 9'–8" |
| 12'–0" | 11'–8" |
| 15'–0" | 14'–8" |
| 18'–0" | 17'–8" |





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REVISIONS

SIGNAL DETAILS
10TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.F_TRS-DTLS_02300893.DWG
date: 02/11/2026

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110 of 162


DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\TRAFFIC SIGNAL PLANS AND DETAILS\F_TRS-DTLS_02300893.dwg USER: jpudlowski
DATE: Apr 17, 2026 1:56pm XREFS: F_PTBLK_02300893

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | PULL BOX | | | | | | | POST | | | | | | |

## CONDUIT (WITH #14 TRACER WIRE)

| FROM | TO | CENTER TO CENTER DISTANCE | LOOP DET. | TRENCH | | | PUSHED | | | MEDIAN | | | ON STRUCTURE | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | 4" | 2" | 3" | |
| ø | CONT | 42 | | | 50 | | | | | | | | | | |
| CONT | BOX 1 | 12 | | 16 | | 32 | | | | | | | | | 2-4" Conduit |
| BOX 1 | BOX 2 | 77 | | | | | | | 76 | | | | | | |
| BOX 2 | BOX 3 | 65 | | | | | | | 64 | | | | | | |
| BOX 1 | BOX 4 | 54 | | | | | | | 53 | | | | | | |
| | | | | | | | | | | | | | | | |
| BOX 1 | POLE 1 | 8 | | | 12 | | | | | | | | | | |
| BOX 2 | POLE 2 | 8 | | | 12 | | | | | | | | | | |
| BOX 3 | POLE 3 | 7 | | | 11 | | | | | | | | | | |
| BOX 3 | POLE 5 | 15 | | | 19 | | | | | | | | | | |
| BOX 4 | POLE 4 | 30 | | | 34 | | | | | | | | | | |
| BOX 4 | POLE 6 | 18 | | | 22 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| SUBTOTALS | | | | 16 | 160 | 32 | | | 193 | | | | | | |
| TOTAL | | | | 17 | 168 | 34 | | | 203 | | | | | | |

## CABLE

| FROM | TO | CENTER TO CENTER DISTANCE | POWER | | CONTROL | | | | CLOSED LOOP INTERCONNECT | CONTROL | LIGHTING | | DETECTOR | CAMERA/RADAR | | OGL ANTENNA CABLE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3-1c #4 | 3-1c #8 | 2c #14 | 5c #14 | 7c #14 | 3c #16 | 3 PAIR #16 | 1c #6 | 3-1c #12 | 3-1c #10 (POLE AND BRACKET CABLE) | EVP CABLE * | CCTV CABLE | RADAR CABLE | |
| ø | CONT | 42 | 58 | | | | | | | | | | | | | |
| CONT | 11 | 20 | | | | | 82 | | | 34 | | | | | | |
| CONT | 61 | 20 | | | | | 71 | | | | | | | | | |
| CONT | 62 | 20 | | | | | 13 | | | | | | | | | |
| CONT | 63 | 20 | | | | 44 | | | | | | | | | | |
| CONT | 45 | 20 | | | | 44 | | | | | | | | | | |
| CONT | 31 | 97 | | | | | 166 | | | 117 | | | | | | |
| CONT | 81 | 97 | | | | | 168 | | | | | | | | | |
| CONT | 82 | 97 | | | | | 39 | | | | | | | | | |
| CONT | 83 | 97 | | | | | 13 | | | | | | | | | |
| CONT | 84 | 97 | | | | 127 | | | | | | | | | | |
| CONT | 64 | 97 | | | | 127 | | | | | | | | | | |
| CONT | 51 | 161 | | | | | 240 | | | 187 | | | | | | |
| CONT | 21 | 161 | | | | | 230 | | | | | | | | | |
| CONT | 22 | 161 | | | | | 13 | | | | | | | | | |
| CONT | 71 | 96 | | | | | 167 | | | 116 | | | | | | |
| CONT | 41 | 96 | | | | | 168 | | | | | | | | | |
| CONT | 42 | 96 | | | | | 41 | | | | | | | | | |
| CONT | 43 | 96 | | | | | 13 | | | | | | | | | |
| CONT | 85 | 169 | | | | 205 | | | | 195 | | | | | | |
| CONT | 23 | 169 | | | | 205 | | | | | | | | | | |
| CONT | 44 | 84 | | | | 114 | | | | 110 | | | | | | |
| CONT | 24 | 84 | | | | 114 | | | | | | | | | | |
| CONT | PB 64 | 20 | | | 43 | | | | | | | | | | | |
| CONT | PB 44 | 20 | | | 43 | | | | | | | | | | | |
| CONT | PB 85 | 97 | | | 126 | | | | | | | | | | | |
| CONT | PB 65 | 97 | | | 126 | | | | | | | | | | | |
| CONT | PB 84 | 169 | | | 204 | | | | | | | | | | | |
| CONT | PB 24 | 169 | | | 204 | | | | | | | | | | | |
| CONT | PB 23 | 84 | | | 113 | | | | | | | | | | | |
| CONT | PB 45 | 84 | | | 113 | | | | | | | | | | | |
| CONT | LUM 1 | 20 | | | | | | | | | 34 | 49 | | | | |
| CONT | LUM 2 | 97 | | | | | | | | | 117 | 49 | | | | |
| CONT | LUM 3 | 169 | | | | | | | | | 195 | 49 | | | | |
| CONT | LUM 4 | 96 | | | | | | | | | 122 | 49 | | | | |
| CONT | EVP 1 | 97 | | | | | | | | | | | 161 | | | |
| CONT | EVP 2 | 96 | | | | | | | | | | | 162 | | | |
| SUBTOTALS | | | 58 | 0 | 972 | 980 | 1424 | 0 | 0 | 759 | 468 | 196 | 323 | 0 | 0 | 0 |
| TOTAL | | | 70 | 0 | 1030 | 1030 | 1500 | 0 | 0 | 800 | 500 | 210 | 340 | 0 | 0 | 0 |


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SIGNAL QUANTITIES (D-37B)
10TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no: F_TRS-DTLS_02300893.DWG
date: 02/11/2026

D-37B

SHEET
112 of 162


DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\TRAFFIC SIGNAL PLANS AND DETAILS\F_TRS-DTLS_02300893.dwg USER: jpudlowski
DATE: Apr 17, 2026 1:58pm XREFS: F_PTBLK_02300893

## POWER SUPPLY

| LOCATION | | | POWER SUPPLY ASSEMBLY | | CIRCUIT BREAKER TRIP RATING* | | | | LIGHTING CONTROL * (ON POWER SUPPLY) | | SERVICE POLE | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CONTROLLER | | POWER SUPPLY DISCONNECT | | | | | |
| APPROACH | STATION | OFFSET | DRAWING 902.15 | DRAWING | AUXILIARY BREAKER | CONT & SIGNAL LAMS | MAIN BREAKER | | 120 VOLT CONTROL CABINET | MAIN BREAKER | CONTRACT FURNISH | UTILITY COMPANY |
| | | | | | | | SIGNALS | LIGHTING | | | | |
| MAIN STREET | 109+02.32 | 87.8' RT | Type | | 15 Amps | 30 Amps | 20 Amps | Amps | | Amps | Cl. Ft. | LIBERTY |
| | | | Type | | 15 Amps | Amps | Amps | Amps | | Amps | Cl. Ft. | |

## CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

| LOCATION | | | SYSTEM MASTER (CLOSER LOOP) | | ACTUATED | | ON-OFF* SWITCH | | COORDINATION INTERFACE * | | | | | | TIME * CLOCK | NEMA CABINET TYPE * | | | 2070 CABINET TYPE * | | 170 SOFTWARE * | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | TYPE | | 12C/7C HARDWIRE (1) | | | CLOSED LOOP | | | | | | | | | | |
| APPROACH | STATION | OFFSET | NEMA | 170 | McCain eX2 | 170 | I | II | MASTER | LOCAL | TIME BASE | NEMA | 170 | EXISTING WIRELESS | | E | EV | DOUBLE | 332D | 336S | BITRAN | WAPITI |
| MAIN STREET | 108+93.81 | 47.4' RT | | | 1 | | | | | | | | | | | | | | 1 | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

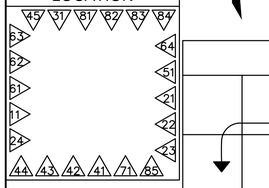
## SIGNAL SIGNS

| QUANTITY | MUTCD SIGN NUMBER | SIZE | AREA | SIGN TOTAL AREA ITEM NO. 90208.33 | SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34 |
|---|---|---|---|---|---|
| | | INCHES | SQ.FT. | SQ.FT. | EA. |
| | R10-10L | 24 X 30 | 5.0 | | |
| | R10-10R | 24 X 30 | 5.0 | | |
| | R3-5L | 30 X 36 | 7.5 | | |
| | R3-5R | 30 X 36 | 7.5 | | |
| | R3-5A | 30 X 36 | 7.5 | | |
| | R3-6L | 30 X 36 | 7.5 | | |
| | R3-6R | 30 X 36 | 7.5 | | |
| | R3-2 | 24 X 24 | 4.0 | | |
| | R3-1 | 24 X 24 | 4.0 | | |
| | R3-3 | 24 X 24 | 4.0 | | |
| | R3-4 | 36 X 36 | 9.0 | | |
| | R10-5 | 24 X 30 | 5.0 | | |
| | R10-12 | 24 X 30 | 5.0 | | |
| | R10-12A | 30 X 36 | 7.5 | | |
| 2 | D3-1 (10th Street)*** | 90 X 18 | 11.3 | 22.5 | 2 |
| 2 | D3-1 (Main Street)*** | 72 X 18 | 9.0 | 18.0 | 2 |
| 4 | R10-3E (L) | 9 X 15 | 0.9 | 3.8 | 4 |
| 4 | R10-3E (R) | 9 X 15 | 0.9 | 3.8 | 4 |
| | R10-3E | 9 X 15 | 0.9 | | |
| | R10-11A | 24 X 30 | 7.5 | | |
| | R10-13 | 36 X 24 | 6.0 | | |
| 4 | R10-27A | 30 X 36 | 7.5 | 30.0 | 4 |
| | R10-15R | 30 X 36 | 7.5 | | |
| | | | | | |
| | | | SUBTOTAL | 78.0 | 16 |
| | | | TOTAL | 78.0 | 16 |

## DETECTOR SCHEDULE

| DETECTOR NUMBER | APPROACH | TYPE | | | |
|---|---|---|---|---|---|
| | | ADA ACCESSIBLE PUSH BUTTON | VIDEO* | | |
| | | | NO. DEVICES | DELAY/ EXTEND * | CALL UNIT * |
| 23, 85 | POLE 5 | 2 | | | |
| 24, 44 | POLE 6 | 2 | | | |
| 63, 45 | POLE 1 | 2 | | | |
| 64, 84 | POLE 2 | 2 | | | |
| | | | | | |
| | | | | | |
| | |

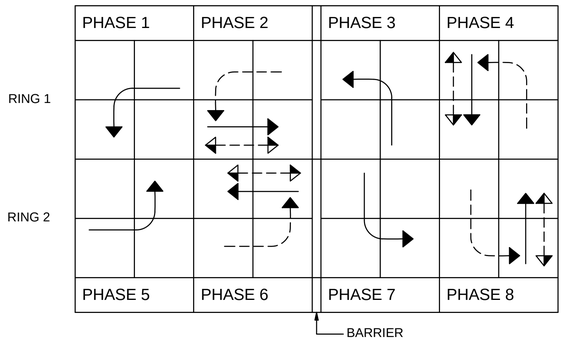
SIGNAL FACE LOCATION




## TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

| | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 | PHASE 5 | PHASE 6 | PHASE 7 | PHASE 8 | PED Ø 2 OVERLAP | PED Ø 4 OVERLAP | PED Ø 6 OVERLAP | PED Ø 8 OVERLAP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FACE NUMBERS | 11 | 21 22 | 31 | 41 42 43 | 51 | 61 62 | 71 | 81 82 83 | 23 24 | 44 45 | 63 64 | 84 85 |
| SIGNAL INDICATIONS R | RL | R R | RL | R R R | RL | R R | RL | R R R | DW DW | DW DW | DW DW | DW DW |
| SIGNAL INDICATIONS Y | YL | Y Y | YL | Y Y Y | YL | Y Y | YL | Y Y Y | FDW FDW | FDW FDW | FDW FDW | FDW FDW |
| SIGNAL INDICATIONS FYA | FYL | | FYL | | FYL | | FYL | | | | | |
| SIGNAL INDICATIONS G | GL | G G | GL | G G G | GL | G G | GL | G G G | W W | W W | W W | W W |
| DETECTOR ASSIGNMENTS | 11 | 21 22 | 31 | 41 42 43 | 51 | 61 62 | 71 | 81 82 83 | | | | |
| DETECTOR ASSIGNMENTS (PEDS. ONLY) | | | | | | | | | PB 24 PB 23 | PB 45 PB 44 | PB 64 PB 63 | PB 85 PB 84 |
| OVERLAP PARENT PHASES | | | | | | | | | | | | |

FACE NUMBERS
SIGNAL INDICATIONS R Y FYA G
DETECTOR ASSIGNMENTS




RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

## LEGEND

- — ACTUATED VEHICULAR MOVEMENT
- — PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- — NON-ACTUATED VEHICULAR MOVEMENT
- — PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- — ACTUATED PEDESTRIAN MOVEMENT
- — NON-ACTUATED PEDESTRIAN MOVEMENT
- — VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY-YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

| FLASHING OPERATION | |
|---|---|
| 10TH STREET | FR |
| MAIN STREET | FR |
| CONTROLLER TYPE | |

| TRAFFIC SIGNAL CONTROL OPERATION | | |
|---|---|---|
| INTERSECTION OF | | |
| MAIN STREET | WITH | 10TH STREET |

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1027 S. Main Street, Suite 503
Joplin, MO 64801
TEL 417.781.0643
www.olsson.com

STATE OF MISSOURI
JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER
01/27/26

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

SIGNAL PHASING (D-38A)
10TH AND MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no: F_TRS-DTLS_02300893.DWG
date: 02/11/2026

SHEET
114 of 162

D-38A

DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\TRAFFIC SIGNAL PLANS AND DETAILS\F_TRS-DTLS_02300893.dwg
DATE: Apr 17, 2026 1:59pm
USER: jpudlowski
XREFS: F_PTBLK_02300893

# GENERAL NOTES

ALL WORK SHALL COMPLY WITH THE CITY OF JOPLIN, MO., DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS, SECTION 7000, 9000, AND OTHER SECTIONS REQUIRED TO RESTORE THE CITY'S "RIGHT-OF-WAY" TO ITS ORIGINAL CONDITION.

1. CLASSIFICATION:
   1.1. MAIN STREET – CONTINUOUS ROADWAY LIGHTING
   ROADWAY CLASSIFICATION IS MAJOR, PEDESTRIAN CONFLICT CLASSIFICATION MEDIUM. PAVEMENT CLASSIFICATION IS R3. LIGHT LOSS FACTOR IS 0.91.

2. THE STREET LIGHTING LAYOUT WAS BASED ON THE ESPLANADE LED-HALOPHANE (OR APPROVED EQUALS INCLUDING, BUT NOT LIMITED TO, CORONET LED-KING LUMINAIRE, COLUMBIA LC3-SPRING CITY) ALONG MAIN STREET BETWEEN 10TH STREET AND 15TH STREET. LUMINAIRES ARE TO BE TYPE III LED DISTRIBUTION PATTERN WITH 4000 CCT RATING. THE STREET LIGHTING LAYOUT WAS ALSO BASED ON THE ACUITY BRANDS WASHINGTON POSTLITE (OR APPROVED EQUALS) ALONG MAIN STREET BETWEEN 8TH STREET AND 10TH STREET. LUMINAIRES ARE TO BE TYPE III LED DISTRIBUTION PATTERN WITH 4000 CCT RATING. LUMINAIRES SHALL BE ADJUSTED AND LEVELED TO MATCH THE ELEVATION OF THE PAVEMENT. THE UPLIGHT FIXTURE LAYOUT WAS BASED ON THE WAC 20W INGROUND LED LUMINAIRE. THE UPLIGHT FIXTURES ARE TO BE INSTALLED SOUTH OF THE RAILROAD TRACKS ALONG MAIN STREET TO 15TH STREET. MOUNTING HEIGHT SHALL BE AS FOLLOWS:
   2.1. MAIN STREET – 10TH STREET TO 15TH STREET: 110W LED, 26' MOUNTING HEIGHT W/BLACK DECORATIVE POLE AND ARM. POLE TO INCLUDE 4'X19.5" BANNER ARMS AT 16' ABOVE GRADE. POLE AND LUMINAIRE SHALL MATCH IN STYLE, TYPE, AND FIXTURE OUTPUT WITH THE EXISTING MAIN STREET PROJECT TO THE SOUTH.
   2.2. MAIN STREET – 8TH STREET TO 10TH STREET: 95W LED, 12' MOUNTING HEIGHT W/ BLACK DECORATIVE POLE. POLE TO INCLUDE 4'X19.5" BANNER ARMS. POLE AND LUMINAIRE SHALL MATCH IN STYLE, TYPE AND FIXTURE OUTPUT WITH THE EXISTING MAIN STREET PROJECT TO THE NORTH.
   2.3. MAIN STREET – SOUTH OF RR TRACKS TO 15TH STREET: 20W LED, SURFACE LEVEL MOUNT, EMBEDDED IN PEA GRAVEL BASE.

3. ALL DISTRIBUTION CABLE SHALL BE PLACED IN A 2" SCHEDULE 40 PVC CONDUIT. ALL CONDUIT RUNS SHALL BE PLACED 4' BACK OF CURB WHERE POSSIBLE (OR TO BEST AVOID CONFLICT WITH LANDSCAPING) AND AT A MINIMUM DEPTH OF 24". CIRCUITS ARE 240V, 1ø. CONDUIT INSTALLATION SHALL BE COORDINATED WITH THE PAVING OPERATION, WHEN APPLICABLE.

4. INDIVIDUAL AND SYSTEM GROUNDS SHALL BE INSTALLED ON ALL CIRCUITS (POLE GROUNDING RODS AND A GROUND WIRE FROM POLE TO POLE).

5. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND LOCATION OF EXISTING UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPE LINES, CONDUITS AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES.

6. ALL CONDUITS ARE TO BE TRENCHED IN PLACE AFTER ROADWAY ROUGH GRADE IS ESTABLISHED AND PRIOR TO ANY FINAL ROADWAY PAVING, CURB & GUTTER, MEDIAN OR SIDEWALK SECTIONS ARE PLACED. AT OPTION OF CONTRACTOR, CONDUITS UNDER STREET AND SIDEWALK SECTIONS MAY BE BORED AFTER ROADWAY IMPROVEMENTS ARE COMPLETED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL SECTIONS OF SIDEWALK, PAVEMENT, AND OTHER COMPONENTS DAMAGED OR IMPACTED BY BORING CONDUIT BACK TO NEW CONDITION.

7. ALL CONDUIT MAY BE TRENCHED UNLESS IT CROSSES EXISTING PAVEMENT, THEN IT MUST BE BORED HORIZONTALLY FOR A 2" CONDUIT, 30" BELOW TOP OF PAVEMENT.

8. ALL STREET LIGHT POLES, MATERIALS AND CONTROLLER MUST BE INSTALLED WITHIN THE CITY'S "RIGHT OF WAY".

9. DISTRIBUTION CABLE MUST BE PER "ONE LINE DIAGRAM". TYPICAL IS 3-1C #4 DISTRIBUTION, TYPE RHH/RHW/USE, 600V, COPPER STRANDED, U.L. LISTED, AND COLOR CODED RED, BLACK, WHITE AND GREEN FOR A GROUNDED 240V SYSTEM (SINGLE PHASE).

10. CABLE USED WITHIN THE POLES SHALL BE 3-1C #10, TYPE RHW/USE, 600V RATED, COPPER STRANDED, U.L. LISTED AND COLOR CODED RED, BLACK, AND GREEN ACCORDING TO THE NEC OR AS SPECIFIED IN THE PLANS.

11. PROVIDE AND INSTALL IN EACH POLE BASE, 3 SINGLE-POLE, SET-SCREW, IN-LINE, BREAKAWAY, FUSEHOLDERS. USE BUSSMAN (OR APPROVED EQUAL) MODEL NO. HEB-JW-RYC AND HEB-JW-RLC-J (LAST POLE). FOR THE 2 "HOT" BREAKAWAY CONDUCTORS, PLACE A FUSE IN EACH BREAKAWAY FUSEHOLDER AND A COPPER SLUG IN THE SYSTEM GROUND FUSEHOLDER.

12. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE PUBLIC WORKS DEPARTMENT.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION OF THE CONSTRUCTION SITE TO CITY SPECIFICATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH ANY DAMAGE, INCLUDING BUT NOT LIMITED TO LANDSCAPING, SPRINKLER SYSTEMS, WATER, SEWER, CURBS AND SIDEWALK, GAS MAIN, ETC., CAUSED BY THE CONSTRUCTION.

14. LUMINAIRE AND CONTROLLER CABINET LABELS: THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE AND CONTROLLER CABINET IDENTIFICATION LABELS ACCORDING TO THE CONSTRUCTION PLANS. IDENTIFICATION LABELS SHALL CONSIST OF THREE LETTERS AND FOUR NUMERALS IN VERTICAL ORIENTATION WITH THE LETTERS AT THE TOP SO AS TO READ DOWNWARD. LEGEND SHALL BE 2 INCH SERIES "C" UPPER CASE BLACK CHARACTERS ON SILVER RETRO-REFLECTIVE SHEETING WITH PRESSURE SENSITIVE ADHESIVE BACKING, AS PRESCRIBED FOR USE ON STANDARD HIGHWAYS SIGNS IN THE FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. LABELS FOR DECORATIVE POLES MUST BE COORDINATED WITH THE STREET LIGHTING SECTION.

    THE LABEL SHALL BE POSITION ON THE VERTICAL AXIS OF THE POLE FACING THE STREET AND 8-10 FEET ABOVE THE PAVEMENT SURFACE. LABELS ON CABINETS SHALL BE POSITIONED NEAR THE TOP OF THE DOOR ADJACENT TO THE DOOR HINGE.

15. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO MINIMIZE THE DOWNTIME OF THE STREET LIGHTING SYSTEMS. THE CONTRACTOR SHALL COORDINATE WITH LIBERTY ELECTRIC TO MAINTAIN THE EXISTING STREET LIGHTING SYSTEM DURING CONSTRUCTION AS LONG AS POSSIBLE UNTIL THE NEW CITY-OWNED STREET LIGHTING SYSTEM IS INSTALLED AND OPERATING.

SUMMARY OF STREET LIGHTING QUANTITIES*

| ITEM | UNIT | QUANTITY |
|---|---|---|
| 22' DECORATIVE ALUMINUM POLE, TYPE CH, 26' MOUNTING HEIGHT | EA | 28 |
| 12' ALUMINUM POLE, 12' MOUNTING HEIGHT | EA | 19 |
| STREET LIGHT FOUNDATION | EA | 47 |
| TEAR DROP LUMINAIRE (240V), 110W LED, TYPE III | EA | 28 |
| POST TOP LUMINAIRE (240V), 95 WATT LED, TYPE III | EA | 19 |
| | | |
| BRACKET ARM, 4'3" LENGTH W/4'10" RISE, TYPE ATC | EA | 28 |
| | | |
| POWER PEDESTAL-PAD MOUNTED | EA | 3 |
| PEDESTAL-PAD FOUNDATION | EA | 3 |
| TYPE II JUNCTION BOX | EA | 37 |
| | | |
| TREE WELL RECEPTACLE ASSEMBLY | EA | 27 |
| TREE WELL INSTALLED UPLIGHT | EA | 16 |
| UPLIGHT CONTROL SYSTEM | LS | 1 |
| | | |
| 2" SCHEDULE 40 PVC CONDUIT (LIGHTING) | L.F. | 10470 |
| 3" SCHEDULE 40 PVC CONDUIT (CONTROLLER TO TRANSFORMER) | L.F. | 300 |
| 3-1c #4 USE (DISTRIBUTION) | L.F. | 5800 |
| 3-1c #1 USE (DISTRIBUTION) | L.F. | 5700 |
| DMX CABLE (UPLIGHT CONTROL CABLE) | L.F. | 2284 |
| 1-1c #10 TYPE RHW/USE CU (POLE & BRACKET) | L.F. | 7020 |
| | | |
| FUSED CONNECTOR KIT | EA | 157 |
| 8 AMP FUSE | EA | 141 |
| 1 AMP FUSE | EA | 16 |
| UNFUSED CONNECTOR | EA | 141 |
| MULTITAP CONNECTOR | EA | 188 |
| GROUND ROD (1/2"X10') | EA | 50 |
| | | |
| 2" SCHEDULE 40 PVC CONDUIT (FIBER OPTIC) W/ PULL STRING | LF | 2900 |
| 1-1c #10 TYPE TRACER WIRE | LF | 2900 |

* THESE QUANTITIES WERE PREPARED FOR THE CONTRACTORS CONVENIENCE AND ARE NOT INTENDED FOR USE IN PREPARATION OF CONTRACT DOCUMENTS. QUANTITIES INTENDED FOR, BUT NOT LIMITED TO, THE PREPARATION OF PROPOSALS AND BID DOCUMENTS SHALL BE INDEPENDENTLY EVALUATED BY THE ESTIMATING PARTY BASED ON THE CONTENTS OF THESE PLANS.

# LEGEND

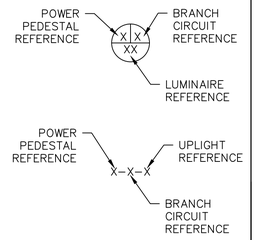
- 26' 110W/240V LED DECORATIVE STREET LIGHT POLE
- *12' 95W/240V LED DECORATIVE STREET LIGHT POLE*
- STREET LIGHT CONDUIT
- STREET LIGHT TYPE II JUNCTION BOX
- STREET LIGHT POWER PEDESTAL
- FIBER OPTIC TYPE II PULL BOX
- FIBER OPTIC CONDUIT
- *UPLIGHT (RGBW 30W MIN.)*
- *STREET LIGHT POWER PEDESTAL*

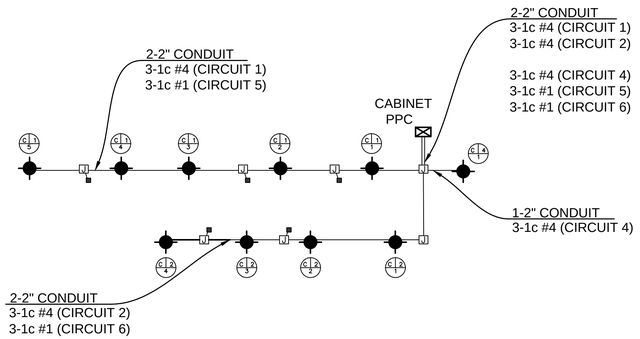
ROADWAY LEVELS FOR MAIN ST – ROADWAY.

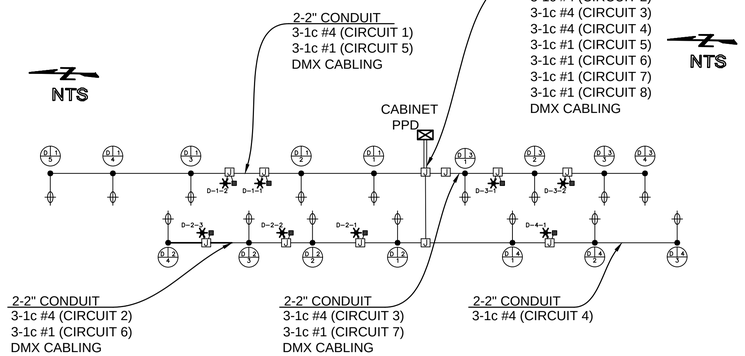
1. ROADWAY CLASSIFICATION: MAJOR
2. PEDESTRIAN CONFLICT: MEDIUM
3. LUM. AVE.: 0.9 CD/M²
4. LUM. AVE/MIN: 3 TO 1
5. LUM. MAX/MIN: 5.0 TO 1
6. MAX. VEILING LUM. RATIO: 0.3 TO 1
7. LLF = 0.91

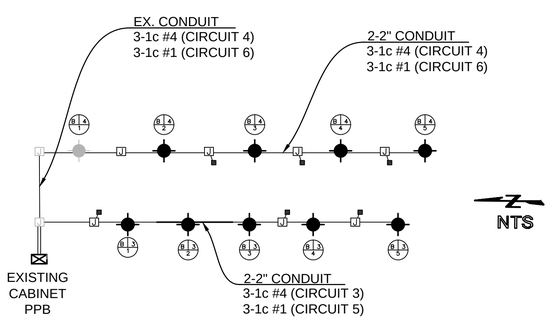
## *STREET LIGHT WIRING DIAGRAM LEGEND*

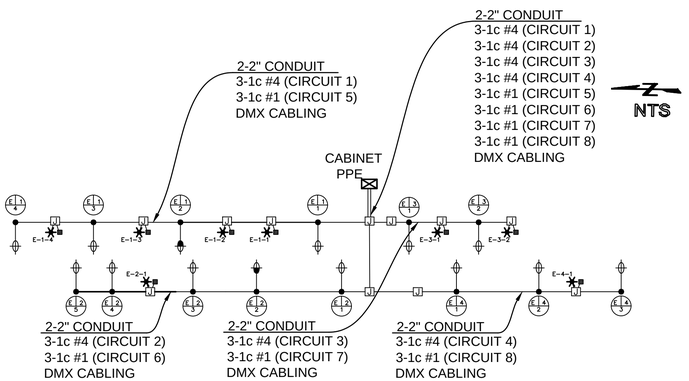
- *26' 110W/240V LED DECORATIVE STREET LIGHT POLE*
- *12' 95W/240V LED DECORATIVE STREET LIGHT POLE*
- *STREET LIGHT CONDUIT*
- *STREET LIGHT TYPE II JUNCTION BOX*
- *UPLIGHT*
- *TREE WELL RECEPTACLE*
- *STREET LIGHT POWER PEDESTAL*





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STATE OF MISSOURI
JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER
02/11/26

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

STREET LIGHTING PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2026

| | |
|---|---|
| drawn by: | SRH |
| checked by: | JMP |
| approved by: | JSS |
| QA/QC by: | JSS |
| project no.: | 023-00893 |
| drawing no.: | F_LTG_02300893.DWG |
| date: | 02/11/2026 |

SHEET
115 of 162


DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\LIGHTING PLANS AND DETAILS\F_LTG_02300893.dwg USER: jpudlowski
DATE: Apr 17, 2026 2:00pm XREFS: V_XTOPO_02300893 V_TOPO_62625 V_XBOU_62625 T_PALGN_62625A F_PBASE_02300893 T_PBASE_02300893 F_PTBLK_02300893 T_PBASE_02300893 F_LTGBASE_02300893 F_SAS-BASE_02300893 V_

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DATE: Apr 17, 2026 2:00pm XREFS: V_XTOPO_02300893 V_TOPO_62625 V_XB0U_62625 T_PALGN_62625A
USER: jpudlowski F_PTBLK_02300893 T_PBASE_02300893 F_LTGBASE_02300893 F_SAS-BASE_02300893 V_J

8TH STREET

9TH STREET

MAIN STREET

R/W

EXISTING PPB 4-1 REMOVE AND RE-INSTALL ON NEW FOUNDATION IN PLACE

INSTALL TYPE II PULL BOX STA:100+91.31, 32.4' LT.

PPB 4-2 STA:101+69.72, OFF:31.56' LT.

INSTALL TYPE II PULL BOX STA:102+04.36, 31.5' LT.

PPB 4-4 STA:103+43.77, OFF:31.51' LT.

INSTALL TYPE II PULL BOX STA:103+23.83, 31.8' LT.

INSTALL 2" FIBER OPTIC CONDUIT WITH PULL STRING FOR FUTURE FIBER INSTALLATION

INSTALL 3-1c#4 CABLE AND 3-1c#1 IN 2-2" LIGHTING CONDUITS

INSTALL TYPE II PULL BOX STA:103+86.42, 31.7' LT.

PPB 4-3 STA:102+60.42, OFF:31.47' RT.

PPB 4-5 STA:104+34.21, OFF:31.72' LT.

PPC 1-5 STA:105+34.09, OFF:31.46' LT.

PPC 1-4 STA:106+27.12, OFF:31.53' LT.

PPC 1-3 STA:107+05.18, OFF:31.50' LT.

PPC 1-2 STA:107+77.37, OFF:31.45' LT.

INSTALL TYPE II PULL BOX STA:107+41.66, 31.51' LT.

INSTALL TYPE II PULL BOX STA:105+72.94, 31.51' LT.

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108

MATCHLINE 108+00

INSTALL TYPE II PULL BOX STA:101+08.09, 31.4' RT.

INSTALL TYPE II PULL BOX STA:103+54.19, 31.43' RT.

INSTALL TYPE II PULL BOX STA:106+29.32, 31.68' RT.

PPB 3-1 STA:101+29.65, OFF:31.55' RT.

PPB 3-2 STA:102+12.36, OFF:31.46' RT.

PPB 3-3 STA:102+96.22, OFF:31.56' RT.

PPB 3-4 STA:103+96.75, OFF:31.65' RT.

PPB 3-5 STA:104+68.55, OFF:31.85' RT.

INSTALL TYPE II PULL BOX STA:104+11.21, 31.9' RT.

PPC 2-4 STA:105+81.09, OFF:31.57' RT.

PPC 2-3 STA:106+61.49, OFF:31.63' RT.

PPC 2-2 STA:107+42.52, OFF:31.69' RT.

INSTALL TYPE II PULL BOX STA:107+01.22, 31.82' RT.

INSTALL 3-1c#4 CABLE AND 3-1c#1 IN 2-2" LIGHTING CONDUITS AND 1-2" FIBER CONDUIT

INSTALL 3-1c#4 CABLE AND 3-1c#1 IN 2-2" LIGHTING CONDUITS

EXISTING STREET LIGHTING CABINET "PPB"

INSTALL NEW CABLE IN EXISTING CONDUIT AS REQUIRED TO CONNECT NEW CIRCUITRY TO EXISTING. REPLACE OLD CONDUCTOR CABLE IF UNDERSIZED (TYP.)

## STREET LIGHT WIRING DIAGRAM LEGEND

- 26' 110W/240V LED DECORATIVE STREET LIGHT POLE
- POST TOP 110W/240V LED DECORATIVE STREET LIGHT POLE
- STREET LIGHT CONDUIT
- FIBER OPTIC CONDUIT
- STREET LIGHT TYPE II JUNCTION BOX
- TREE WELL RECEPTACLE
- UPLIGHT
- STREET LIGHT POWER PEDESTAL

10TH STREET

INSTALL 2" CONDUIT FOR PROPOSED POWER

COORDINATE POWER CONNECTION TO EXISTING LIBERTY FACILITIES

INSTALL GROUND MOUNT POWER PEDESTAL AND CONTROL CENTER "PPC". STA:109+46.94, 75.4' LT.

INSTALL TYPE II PULL BOX STA:109+49.32, 66.1' LT.

PPC 1-1 STA:108+71.60, OFF:31.54' LT.

PPC 4-1 STA:109+82.17, OFF:31.72' LT.

R/W

INSTALL TYPE II PULL BOX STA:108+30.98, 31.71' LT.

INSTALL 3-1c#4 CABLE IN 1-2" LIGHTING CONDUITS

MATCHLINE 108+00

108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116

MATCHLINE 116+00

PPD 1-5 STA:111+16.13, OFF:32.18' LT.

PPD 1-4 STA:112+76.44, OFF:32.18' LT.

PPD 1-3 STA:113+92.82, OFF:32.18' LT.

INSTALL 3-1c#4 CABLE, DMX CABLE, AND 3-1c#1 IN 2-2" LIGHTING CONDUITS

PPD 1-2 STA:115+55.17, OFF:32.13' LT.

INSTALL TYPE II PULL BOX STA:115+34.93, 31.6' LT.

INSTALL TYPE II PULL BOX STA:114+84.78, 31.99' LT.

INSTALL TYPE II PULL BOX STA:110+92.96, 32.6' RT.

PPC 2-1 STA:108+20.75, OFF:31.69' RT.

INSTALL TYPE II PULL BOX STA:109+63.12, 36.4' RT.

INSTALL 3-1c#4 CABLE AND 3-1c#1 IN 2-2" LIGHTING CONDUITS

PPD 2-4 STA:111+96.92, OFF:32.18' RT.

INSTALL TYPE II PULL BOX STA:113+19.02, 32.0' RT.

PPD 2-3 STA:113+34.27, OFF:32.17' RT.

PPD 2-2 STA:114+52.29, OFF:32.16' RT.

INSTALL TYPE II PULL BOX STA:114+33.63, 31.7' RT.

INSTALL TYPE II PULL BOX STA:115+50.84, 33.7' RT.

INSTALL 2" FIBER OPTIC CONDUIT WITH PULL STRING FOR FUTURE FIBER INSTALLATION

INSTALL 3-1c#4 CABLE, DMX CABLE, AND 3-1c#1 IN 2-2" LIGHTING CONDUITS

5' Easement for railroad equipment Book 2162, Page 1876

0' 15' 30' 60'
SCALE IN FEET

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Olsson - Civil Engineering
Missouri Certificate of Authority # 001592
1027 S. Main Street, Suite 503 TEL 417.781.0643 www.olsson.com
Joplin, MO 64801

STATE OF MISSOURI
JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER
01/27/26

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|
| | | REVISIONS | |

STREET LIGHTING PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

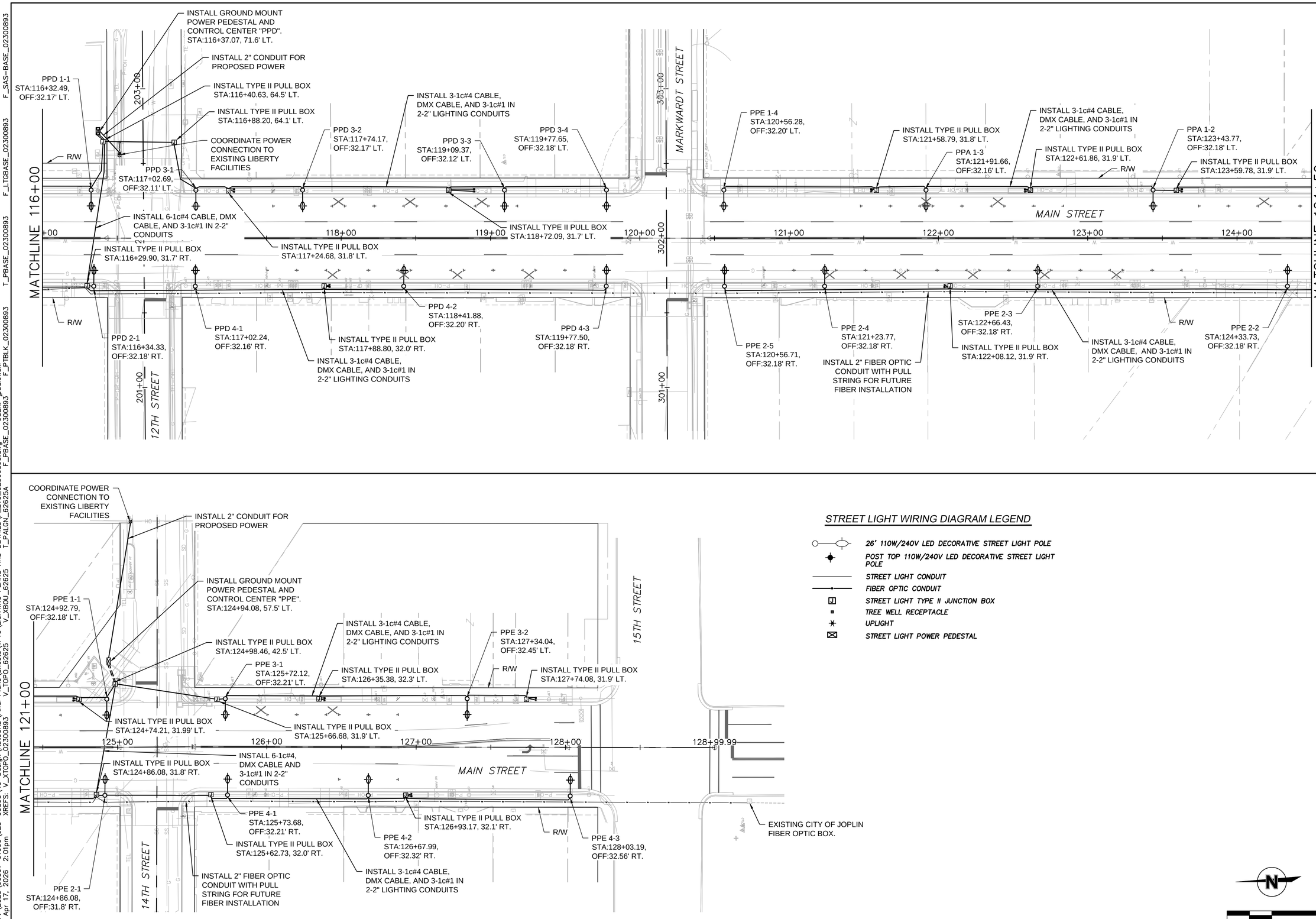
2026

JOPLIN, MO

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.: F_LTG_02300893.DWG
date: 02/11/2026

SHEET
116 of 162

V_XBOU_62625 F_SAS_BASE_02300893 F_LTGBASE_02300893 T_PBASE_02300893 F_PTBLK_02300893 F_PBASE_02300893
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DATE: Apr 17, 2026 2:01pm XREFS: V_XTOPO_02300893 V_TOPO_62625 V_XBOU_62625 T_PALGN_62625A
USER: jpudlowski




## STREET LIGHT WIRING DIAGRAM LEGEND

- 26' 110W/240V LED DECORATIVE STREET LIGHT POLE
- POST TOP 110W/240V LED DECORATIVE STREET LIGHT POLE
- STREET LIGHT CONDUIT
- FIBER OPTIC CONDUIT
- STREET LIGHT TYPE II JUNCTION BOX
- TREE WELL RECEPTACLE
- UPLIGHT
- STREET LIGHT POWER PEDESTAL

0' 15' 30' 60'
SCALE IN FEET

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STREET LIGHTING PLANS

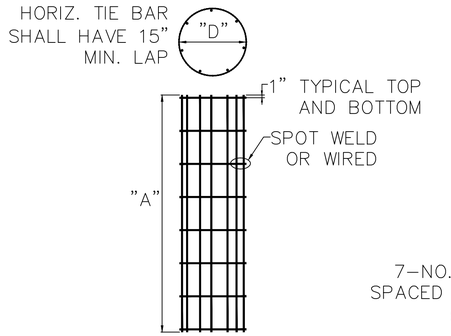
MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

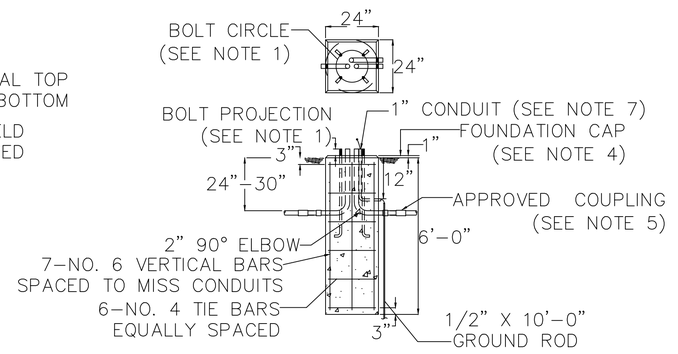
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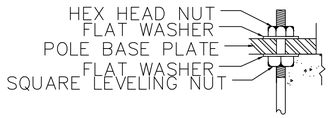
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DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\LIGHTING PLANS AND DETAILS\F_LTG_02300893.dwg USER: jpudlowski
DATE: Apr 17, 2026 2:01pm XREFS: V_XTOPO_02300893 V_TOPO_62625 V_XBOU_62625 T_PALGN_62625A F_PBASE_02300893 T_PBASE_02300893 F_LTGBASE_02300893 F_SAS-BASE_02300893 V_X




REBAR CAGE DETAIL




ANCHOR BOLT DETAIL

*CONCRETE FOUNDATION NOTES:*

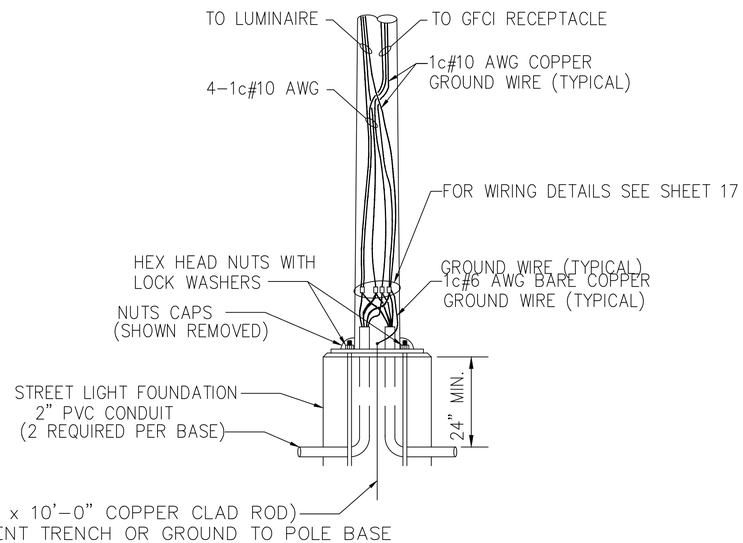
1. *FINAL POLE, ANCHOR BOLT SIZE, ANCHOR BOLT PROJECTION, AND BOLT CIRCLE SHALL BE AS PER MANUFACTURER'S RECOMMENDED PRACTICES.*
2. *ALL CONDUITS AND ANCHOR BOLTS FOR ALL THE NEW POLE BASES SHALL BE RIGIDLY INSTALLED BEFORE CONCRETE IS PLACED. ANCHOR BOLTS SHALL BE SPACED BY MEANS OF A FACTORY CERTIFIED TEMPLATE OR DRAWING, THE CENTER OF WHICH SHALL COINCIDE WITH THE CENTER OF THE BASE.*
3. *ALL CONCRETE POLE BASES SHALL BE CONSOLIDATED BY AN INTERNAL TYPE VIBRATOR.*
4. *FINAL 6" OF CONCRETE FOUNDATION (POLE CAP) SHALL BE FORMED SQUARE. THE CAP SHALL BE FORMED AND POURED AFTER THE ARMS ARE ATTACHED AND THE POLE PLUMB.*
5. *CONDUIT ELBOWS IN CONCRETE FOUNDATIONS SHALL BE CONNECTED TO CONDUIT WITH PVC PIPE NIPPLE AND APPROVED COUPLING. ALL CONDUIT ELBOWS SHALL BE CONSIDERED SUBSIDIARY TO THE POLE BASE.*
6. *ALL CONCRETE USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE CITY OF JOPLIN CODE.*
7. *BARE NO. 6 SOLID COPPER GROUND CONDUCTOR FROM INTERNAL POLE GROUNDING NUT TO CLAMP ON GROUND ROD. 1" CONDUIT SHALL BE SUBSIDIARY TO THE COST OF THE FOUNDATION.*
8. *ALL REINFORCING STEEL SHALL BE ASTM A615 GR60.*

STREET LIGHT FOUNDATION

| STREETLIGHTING FOUNDATION HORIZONTAL REBAR | | | |
|---|---|---|---|
| POLE FND. DIA. | POLE FND. DEPTH | REBAR CIR. "D" | SPACING |
| 24" | 6' | 20" | 12" MAX. |

| STREETLIGHTING FOUNDATION VERTICAL REBAR | |
|---|---|
| POLE FOUNDATION DEPTH | LENGTH "A" |
| 6'-0" | 5'-8" |

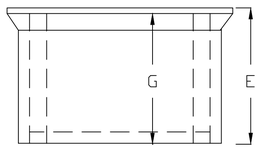
CONCRETE FOUNDATION DETAILS

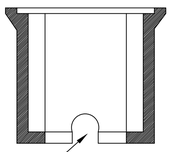



CAUTION!
CONTRACTOR SHALL REFER TO UTILITY NOTE (ON PLAN) WHEN INSTALLING LIGHT PEDESTAL IN VICINITY OF UTILITIES.

POLE TO BASE CONNECTIONS

NOT TO SCALE



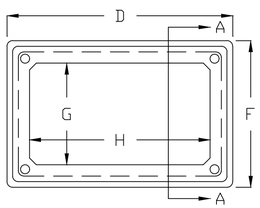



GENERAL NOTE: JUNCTION BOX SHALL MEET ANSI/SCTE77-2002, TIER 8

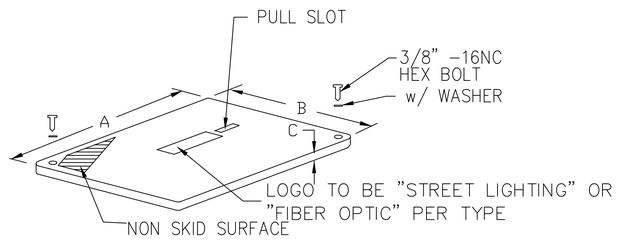
MATERIAL TO BE USED: PRECAST POLYMER CONCRETE

2 - 2 1/2" X 2 1/2"
MOUSEHOLES TYPE 11 LIGHTING ONLY

SECTION A-A




BOX




COVER

| TYPE | DIMENSIONS (IN.) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H |
| II LIGHTING | 18 1/2 | 11 1/2 | 3/4 | 20 1/2 | 13 1/2 | 12 | 10 1/4 | 17 1/4 |
| II FIBER* | 35 5/8 | 24 | 3 | 36 | 36 | 24 | 22 1/4 | 33 7/8 |

*BOXES MAY BE STACKABLE TO ACHIEVE DIMENSIONS SHOWN

PULL BOX

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1027 S. Main Street, Suite 503 TEL 417.781.0643 www.olsson.com
Joplin, MO 64801

STATE OF MISSOURI
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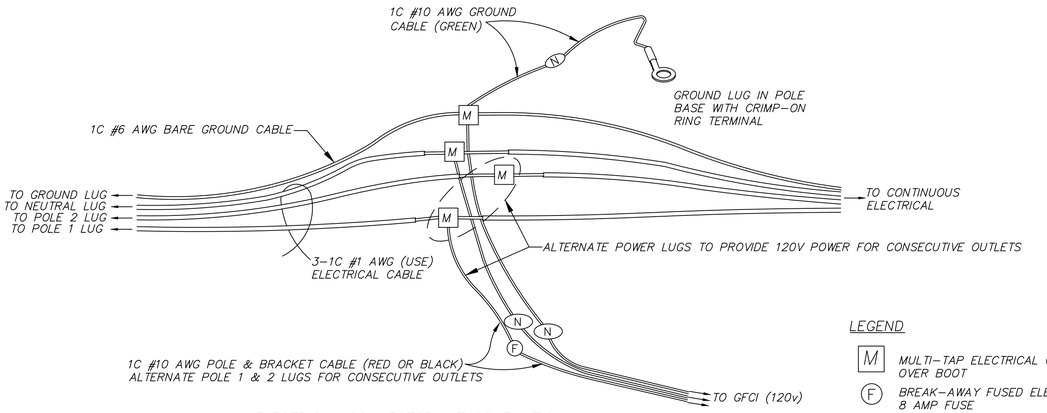
STREET LIGHTING PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

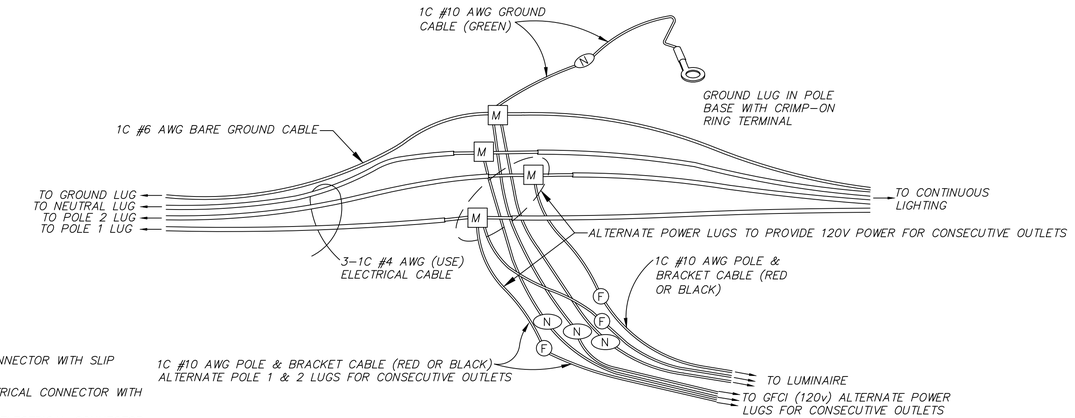
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ELECTRICAL CONNECTOR KIT SCHEMATIC

(GROUND MOUNT GFCI RECEPTACLE)

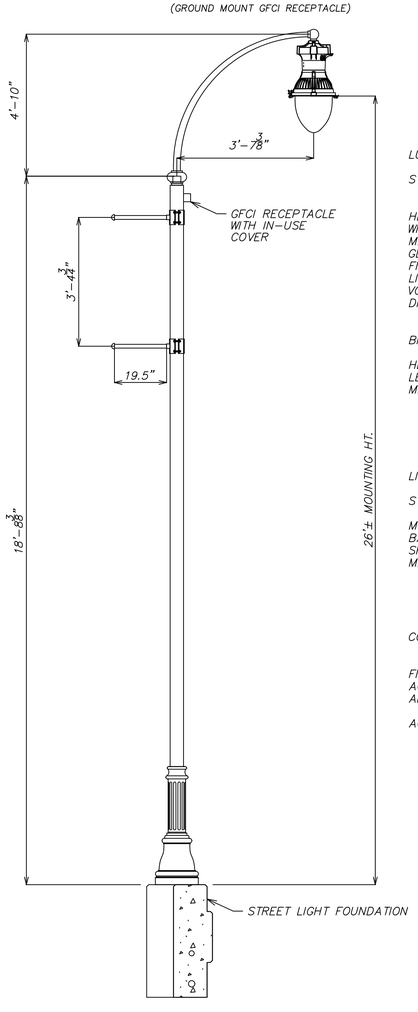



ELECTRICAL CONNECTOR KIT SCHEMATIC

(SINGLE LUMINAIRE W/GFCI RECEPTACLE)

LEGEND

- (M) MULTI-TAP ELECTRICAL CONNECTOR WITH SLIP OVER BOOT
- (F) BREAK-AWAY FUSED ELECTRICAL CONNECTOR WITH 8 AMP FUSE
- (N) BREAK-AWAY NON-FUSED ELECTRICAL CONNECTOR WITH GROUND "SLUG"




LUMINAIRE SPECIFICATIONS

STYLE: ESPLANADE LED, (HOLOPHANE); CORONET LED, (KING LUMINAIRE); COLUMBIA LC3, (SPRING CITY) TEARDROP SERIES (OR APPROVED EQUAL)
HEIGHT: 34"
WIDTH: 17"
MATERIAL: CAST ALUMINUM
GLOBE: BOROSILICATE GLASS REFRACTOR
FINISH: POLYESTER POWDER PAINT, BLACK
LIGHT SOURCE: 110W (350mA) LED, 4000K CCT
VOLTAGE: AUTO-SENSING (120 - 277)
DISTRIBUTION: TYPE III DISTRIBUTION

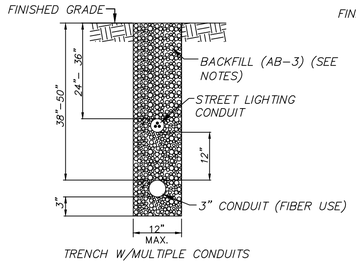
BRACKET ARM SPECIFICATIONS

HEIGHT: 58"
LENGTH: 51" (CTR. POLE TO CTR. LUMINAIRE)
MATERIAL:
POST & LUMINAIRE MOUNTING PIECES - HEAVY WALL, CAST ALUMINUM
TAPERED BENT ARM - ASTM 606.3 ALUMINUM ALLOY, HEAT TREATED TO T6 TEMPER.
STAINLESS STEEL HARDWARE

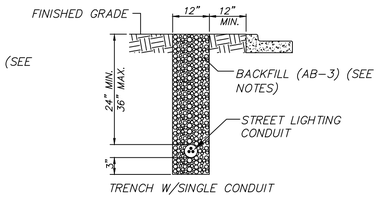
LIGHT POLE SPECIFICATIONS:

STYLE: CHARLESTON, (HOLOPHANE); CAMBRIDGE (SPRING CITY); THE CLEVELAND,(KING LUMINAIRE) (OR APPROVED. EQUAL)
MOUNTING HEIGHT: 26'"± (ABOVE SIDEWALK)
BASE: 16" ROUND, 12" DIA. BOLT CIRCLE
SHAFT STYLE: 5" DIA. SMOOTH, .25 WALL
MATERIAL:
SHAFT - EXTRUDED ALUMINUM, ASTM 6061 ALLOY, HEAT TREATED TO T6 TEMPER
BASE - HEAVY WALL, CAST ALUMINUM FROM CERTIFIED ASTM 356.1 INGOT PER ASTM B-179-95a OR ASTM B26-95.
CONSTRUCTION: SHAFT SHALL BE DOUBLE WELDED TO THE BASE CASTING AT TOP OF ACCESS DOOR AND AT AT TOP OF BASE WHERE SHAFT EXITS BASE.
FINISH: POLYESTER POWDER PAINT, BLACK
ACCESS DOOR: IN BASE FOR ANCHORAGE AND WIRING ACCESS
ANCHOR BOLTS: FOUR (4) - 3/4" DIA. L-TYPE ANCHOR BOLTS, HOT DIP GALVANIZED, 2" MIN. PROJECTION
ACCESSORIES: SHALL BE PROVIDED WITH BANNER BRACKET ARM AND GFCI RECEPTACLE AS DEPICTED.

TEAR DROP LUMINAIRE & POLE ASSEMBLY




TRENCH W/MULTIPLE CONDUITS

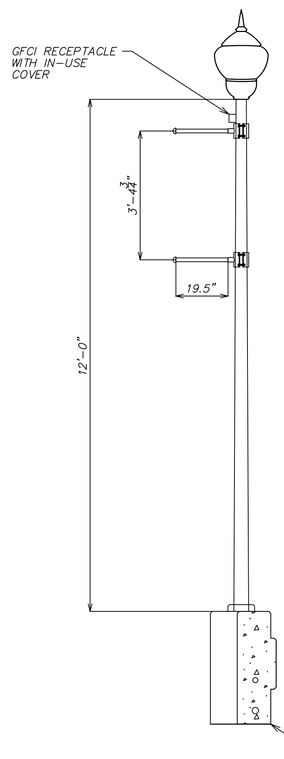



TRENCH W/SINGLE CONDUIT

TRENCHING NOTES:

1. ALL TRENCHES FOR CONDUIT UNDER ROADWAYS SHALL BE BACKFILLED WITH FLOWABLE FILL.
2. CONDUITS SHALL BE PITCHED TO DRAIN.

TRENCHING DETAILS




LUMINAIRE SPECIFICATIONS

STYLE: - ACUITY BRANDS WASHINGTON POSTLITE 3 SERIES OR APPROVED EQUAL; MODERN HINGED DOOR WITH LUNAR OPTICS

ELECTRICAL: AUTO-SENSING (120 - 277)
DISTRIBUTION: TYPE III DISTRIBUTION

BRACKET ARM SPECIFICATIONS

LIGHT POLE SPECIFICATIONS:

REQUIREMENTS: POLE SHALL BE CAPABLE OF SUPPORTING TOTAL WEIGHT OF LUMINAIRE AND WITHSTAND A 90 MPH BASIC WIND SPEED WITH 1.3 GUST WITH MAXIMUM E.P.A. MATCHING OR EXCEEDING THE TOTAL E.P.A. OF LUMINAIRE AND ALL HARDWARE. POLE SHALL INCLUDE A FACTORY INSTALLED VIBRATION DAMPENER, GFCI RECEPTACLE, AND BANNER ARM AS DEPICTED.
STYLE: ROUND TAPERED ALUMINUM,
MOUNTING HEIGHT: 12-0"± (ABOVE SIDEWALK)
FINISH: POLYESTER POWDER PAINT, BLACK
HANDHOLE: PROVIDE HANDHOLE ABOVE BASE WITH COVER,ALL HARDWARE, AND GROUNDING PROVISION
ANCHOR BOLTS: FOUR (4) - L-TYPE ANCHOR BOLTS, HOT DIP GALVANIZED.

POST TOP LUMINAIRE & POLE ASSEMBLY

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STREET LIGHTING PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

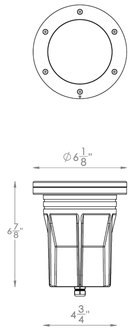
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SHEET
119 of 162

DWG: F:\2023\00501-01000\023-00893\40-Design\AutoCAD\Final Plans\Sheets\TFTC\LIGHTING PLANS AND DETAILS\F_LTG_02300893.dwg USER: jpudlowski
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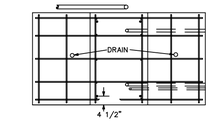



UPLIGHT FIXTURE

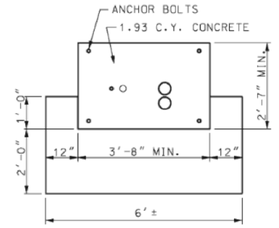
**SPECIFICATIONS**

**Input:** 15VAC (Colorscaping Smart Transformer is required)
**Power:** 23W / 24VA (Use VA value for sizing the transformer and calculate voltage drop.)
**Brightness:** White: 1020
Red: 330
Green: 720
Blue: 175
**Beam Angle:** 20° to 70°
**CRI:** 85+
**Rated Life**: 50,000 hours

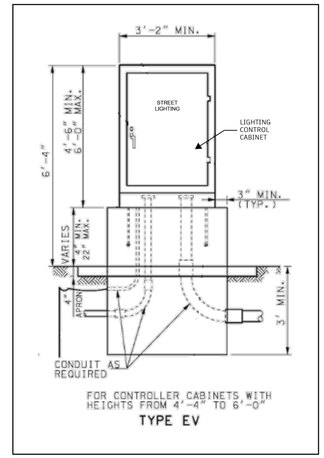
| **IEC safety Standard** | Walk over | Drive over |
|---|---|---|
| Resistance to static load test | Yes (1125lbs) | Yes (4496lbs) |
| Resistance to torque and shear loads test | N/A | Yes |




NOTES:
REBAR SHALL BE GRADE 40 MEETING THE REQUIREMENTS OF SUBSECTION 1601 IN THE STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, MISSOURI DEPT. OF TRANSPORTATION.




PLAN VIEW




FOR CONTROLLER CABINETS WITH HEIGHTS FROM 4'-4" TO 6'-0"
TYPE EV



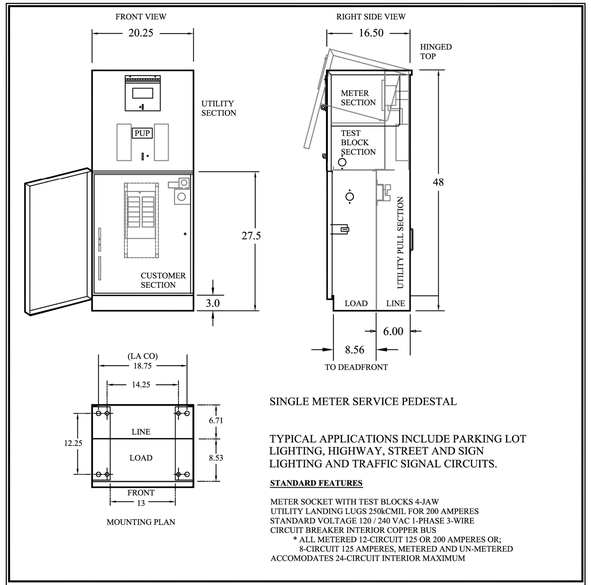

UPLIGHT FOUNDATION

**IN-GRADE SOIL INSTALLATION:**

**IMPORTANT NOTE:** Temporary cover plate and vinyl label must remain in place during housing installation.

**PRECAUTION:** Adequate drainage must be provided during installation. It is recommended the luminaire be surrounded by 3" to 4" of pea gravel along the sides and minimum of 6" of pea gravel at the bottom and beneath the luminaire housing. Top of the luminaire must be above grade so rain and irrigation water will not accumulate for long periods of time.

1. To prevent electrical shock, turn main power off at circuit breaker.
2. Dig a hole approximately 12" in diameter to a depth suitable to make top of temporary cover plate 3/4" above grade (see figure 1). Pea gravel is required for seating the luminaire housing and providing necessary drainage.
3. Connect conduit to housing. UL listed flexible conduit is recommended for in and out connections to ease fixture positioning.
   **IMPORTANT NOTE: If conduit, of the rigid metallic type, is connected to the enclosure housing, the hub (by others) shall be connected to the conduit before the hub is connected to the enclosure housing.**
4. Plug and unused NPT holes with closure plugs (provided).
5. Position fixture within the hole and back fill with pea gravel. Only the uppermost layer, 3" maximum, should be soil or organic mulch.
6. To pull supply conductor wiring, first remove and retain the Temporary Cover Plate and Plate Screws by piercing through the label at the screws locations to access the screws.
7. Pull electrical supply wires (line in) through conduit opening. Stuff the wire loop back through the conduit opening (line out).
8. Reinstall the Temporary Cover Plate and Vinyl Label using the cover screws.




SINGLE METER SERVICE PEDESTAL

TYPICAL APPLICATIONS INCLUDE PARKING LOT LIGHTING, HIGHWAY, STREET AND SIGN LIGHTING AND TRAFFIC SIGNAL CIRCUITS.

**STANDARD FEATURES**

METER SOCKET WITH TEST BLOCKS 4-JAW
UTILITY LANDING LUGS 250kCMIL FOR 200 AMPERES
STANDARD VOLTAGE 120 / 240 VAC 1-PHASE 3-WIRE
CIRCUIT BREAKER INTERIOR COPPER BUS
* ALL METERED 12-CIRCUIT 125 OR 200 AMPERES OR; 8-CIRCUIT 125 AMPERES, METERED AND UN-METERED ACCOMODATES 24-CIRCUIT INTERIOR MAXIMUM

SPECIFICATIONS

* COMPLIES WITH EUSERC STANDARDS & DWG. 308
* 12 GA. NEMA 3R CONSTRUCTION
* POLYESTER POWDER-COATED FINISH EXCEEDS ASTM B-117 SPECIFICATIONS
* FABRICATED FROM CORROSION-RESISTANT ZINC COATED STEEL
* AVAILIABLE IN ALUMINUM & STAINLESS STEEL
* LIGHT GREEN COLOR NO. 14672 PER FEDERAL SPECIFICATIONS 595 - CUSTOM COLORS AVAILABLE
* ALL FACTORY WIRING 600 VOLT RATED COPPER
* ALL COMPONENTS UL LISTED
* ALL EXTERIOR DOORS AND COVERS PADLOCKABLE
* UTILITY COVERS SEALABLE

5/14

POWER METER AND CABINET DETAIL


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STATE OF MISSOURI
JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER
01/27/26

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

STREET LIGHTING PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

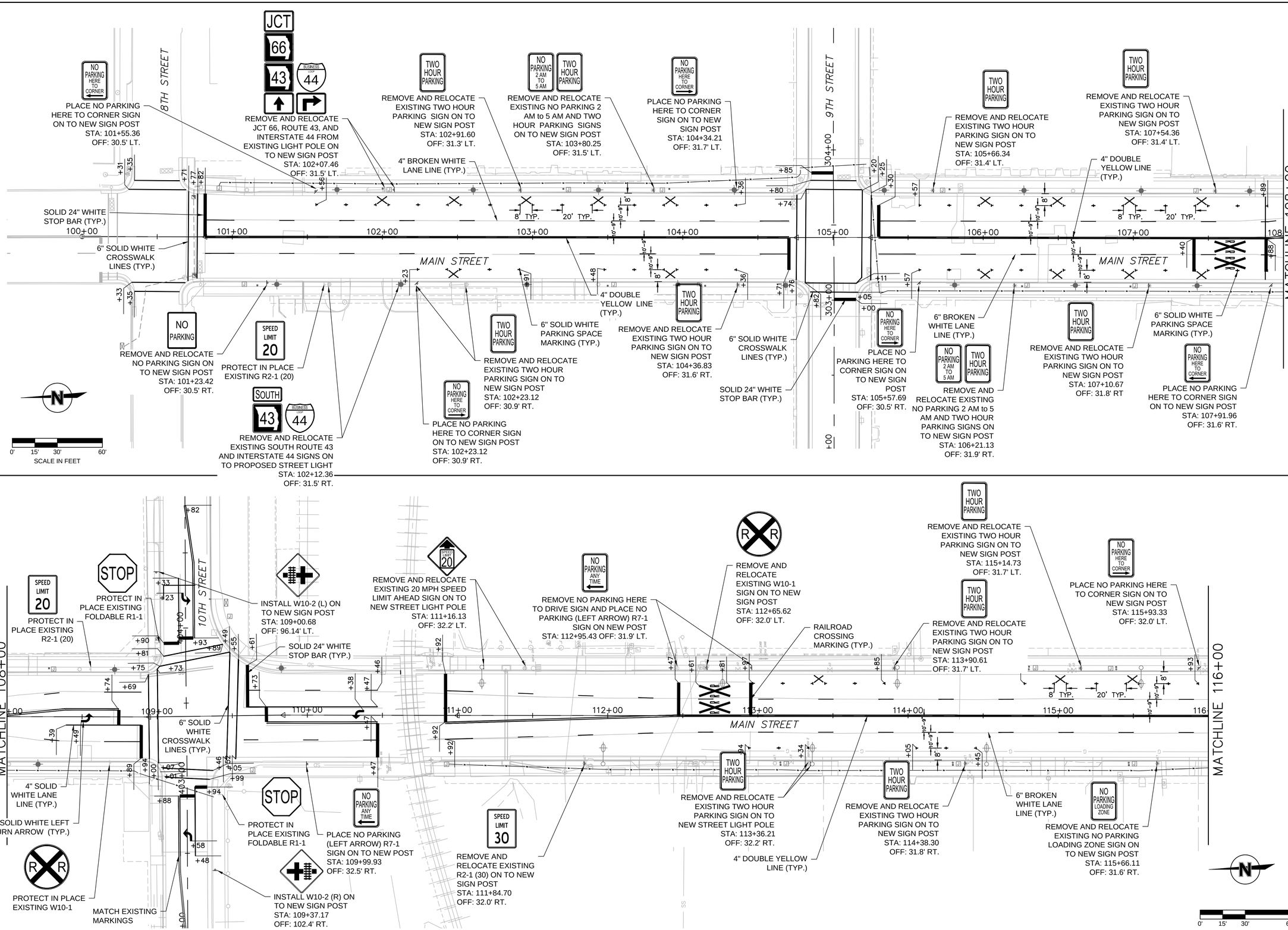
2026

drawn by: SRH
checked by: JMP
approved by: JSS
QA/QC by: JSS
project no.: 023-00893
drawing no.: F_LTG_02300893.DWG
date: 02/11/2026




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USER: jpudlowski F_SAS_BASE_02300893 T_PBASE_02300893 T_PBASE_ADD-ALT_02300893
F_PTBLK_02300893 T_PALGN_62625A




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Joplin, MO 64801

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JOSHUA PUDLOWSKI
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PROFESSIONAL ENGINEER
01/07/26

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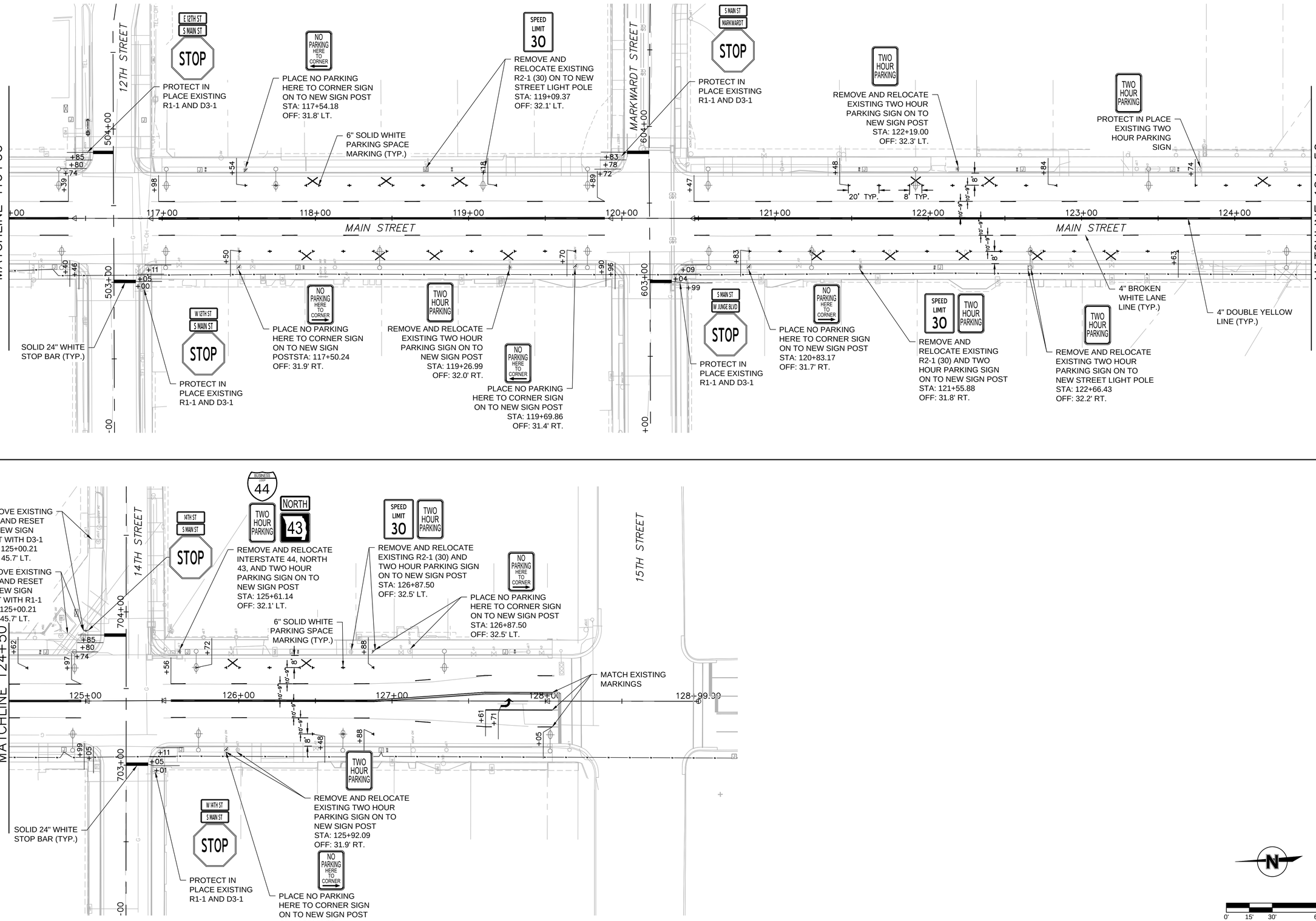
PAVEMENT MARKING AND SIGNING

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2026

| | |
|---|---|
| drawn by: | SRH |
| checked by: | JMP |
| approved by: | JSS |
| QA/QC by: | JSS |
| project no.: | 023-00893 |
| drawing no.: | F_SAS_02300893.DWG |
| date: | 02/11/2026 |




0' 15' 30' 60'
SCALE IN FEET

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DATE: Apr 17, 2026 2:03pm
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01/27/26

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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| | | REVISIONS | |

PAVEMENT MARKING AND SIGNING

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

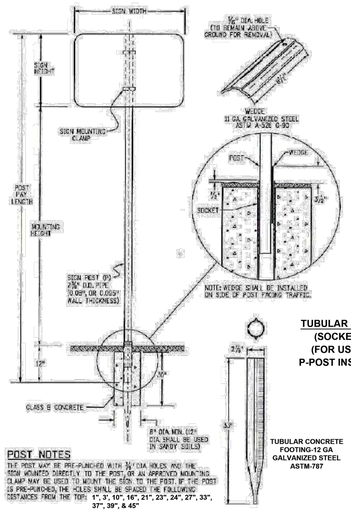
JOPLIN, MO

2026

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| drawn by: | SRH |
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| QA/QC by: | JSS |
| project no.: | 023-00893 |
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| date: | 02/11/2026 |

SHEET
122 of 162

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USER: jpudlowski F_SAS-BASE_02300893 T_PBASE_02300893 T_PBASE_ADD-ALT_02300893 T_PSTRP_02300893
F_PTBLK_02300893 T_PALGN_62625A




**TUBULAR STEEL POSTS (SOCKET SYSTEM) (FOR USE WITH ALL P-POST INSTALLATIONS)**

**POST NOTES**

THE POST MAY BE PRE-PUNCHED WITH ¾" DIA HOLES AND THE ITEM MOUNTED DIRECTLY TO THE POST, OR AN APPROVED MOUNTING CLAMP MAY BE USED TO MOUNT THE SIGN TO THE POST. IF THE POST IS PRE-PUNCHED, THE HOLES SHALL BE SPACED THE FOLLOWING DISTANCES FROM THE TOP: 1", 3", 10", 16", 21", 23", 24", 27", 33", 37", 39", & 45"

**POST SPECIFICATIONS**

| POST SIZE | OUTSIDE Ø | WALL TH | MATERIAL | ** COATING | MAX ALLOW MOMENT | PAID FOR AS: |
|---|---|---|---|---|---|---|
| P | 2.375" | .080" | ASTM-513 | ASTM A-653 G-210 WITH 3.0 MIL POLYMER | 1.47 KIP FT | STEEL SIGN SUPPORT (2 INCH ROUND) |
| P1 | 2.875" | .160" | ASTM-513 | COATING PER ASTM A123 CLEAR COATING | 4.02 KIP FT | STEEL SIGN SUPPORT (2 1/2 INCH ROUND NP-40) |
| P2 | 2.875" | .276" | ASTM-500 | GC HOT DIPPED PER ASTM-123 | 5.13 KIP FT | STEEL SIGN SUPPORT (2 1/2 INCH ROUND SCH 80) |

** COLOR POWDER COATING MAY BE ADDED ACCORDING TO MANUFACTURER SPECIFICATIONS FOR SPECIAL LOCATIONS WHEN SHOWN ON PLANS.

SHEET 1 ST-18

| CITY OF Joplin | CITY OF JOPLIN, MO | CKD BY: JOHNSON | PROJECT |
|---|---|---|---|
| | PUBLIC WORKS DEPT | DATE: 03/2019 | SIGN SUPPORT & INSTALLATION DETAILS |
| | ENGINEERING DIVISION | ENGINEER: HERTZBERG | |
| | 602 S MAIN ST 64801 | FILE: SIGN POST 1 | |

CHART NOTES:
1. TYPICAL POST MOUNTING HEIGHTS FROM GROUND TO BOTTOM OF SIGN PANEL ARE 7', 8', OR 9'. OTHER HEIGHTS MAY BE REQUIRED WHEN SIGNS ARE MOUNTED ON STEEPER FILL OR CUT SLOPES.
2. FOR SIGNS MOUNTED ON TWO POSTS, THE MINIMUM DISTANCE BETWEEN POSTS SHALL BE 2' & THE MAXIMUM DISTANCE SHALL BE 8'. DISTANCE FROM POST TO EDGE OF SIGN PANELS SHALL 6" TO 4'. WHEN BACKING ZEES ARE USED, POSTS SHALL BE INSTALLED WITH A MINIMUM OF 2" TO THE EDGE OF THE BACKING ZEE.
3. ALL SIDE PANELS GREATER THAN 60" IN WIDTH MUST BE MOUNTED ON 2 POSTS TO PREVENT TURNING.
4. THE POST SIZES SHOWN ARE THE MINIMUM SIZES REQUIRED. TWO P1 POSTS MAY SUBSTITUTED WHEN ONE P2 POST IS INDICATED. P2 POSTS MAY BE SUBSTITUTED FOR P1 POSTS WHEN DIRECTED BY THE ENGINEER.

**SIGN POST SELECTION GUIDE (90 MPH WIND LOAD DESIGN) (FOR SOCKET SYSTEM & SLIPBASE INSTALLATIONS USING P, P1, OR P2 POSTS)**

7' MOUNTING HEIGHT

| SIGN HEIGHT (FT) \ SIGN WIDTH (FT) | 1 | 2 | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | P | P | P | P | P | P1 | SIZES NOT USED | | | |
| 2 | P | P | P | P | P | P1 | | | | |
| 2.5 | P | P | P | P | P1 | P1 | | | | |
| 3 | P | P | P | P1 | P1 | P1 | TWO P1'S | | | |
| 4 | P | P1 | P1 | P1 | P1 | P1 | | | | |
| 5 | SIZES NOT USED | | P1 | P1 | P1 | P1 | SIZE NOT USED → TWO P2'S | | | |
| 6 | | | P1 | P1 | P1 | P2 | | | | |
| 7 | | | P1 | P1 | P2 | TWO P1'S | TWO P2'S | | | |

* SEE CHART NOTE 4

8' MOUNTING HEIGHT

| SIGN HEIGHT (FT) \ SIGN WIDTH (FT) | 1 | 2 | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | P | P | P | P | P | P1 | SIZES NOT USED | | | |
| 2 | P | P | P | P | P1 | P1 | | | | |
| 2.5 | P | P | P | P1 | P1 | P1 | | | | |
| 3 | P | P | P1 | P1 | P1 | P1 | TWO P1'S | | | |
| 4 | P | P1 | P1 | P1 | P1 | P1 | | | | |
| 5 | SIZES NOT USED | | P1 | P1 | P1 | P2 | SIZES NOT USED → TWO P2'S | | | |
| 6 | | | P1 | P1 | P1 | P2 | | | | |
| 7 | | | P1 | P1 | TWO P1'S | TWO P1'S | TWO P2'S | | | |

* SEE CHART NOTE 4

9' MOUNTING HEIGHT

| SIGN HEIGHT (FT) \ SIGN WIDTH (FT) | 1 | 2 | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | P | P | P | P | P | P1 | SIZES NOT USED | | | |
| 2 | P | P | P | P | P1 | P1 | | | | |
| 2.5 | P | P | P | P1 | P1 | P1 | | | | |
| 3 | P | P1 | P1 | P1 | P1 | P1 | TWO P1'S | | | |
| 4 | P | P1 | P1 | P1 | P1 | P1 | | | | |
| 5 | SIZES NOT USED | | P1 | P1 | P1 | P2 | SIZES NOT USED → TWO P2'S | | | |
| 6 | | | P1 | P1 | P2 | TWO P1'S | TWO P2'S | | | |
| 7 | | | P1 | P2 | TWO P1'S | TWO P1'S | TWO P2'S | | | |

* SEE CHART NOTE 4

GENERAL NOTES:
1. SIGNS BETWEEN 37" & 60" WIDTH WITH ONE POST INSTALLATION REQUIRE A "T" OR "U" SIGN SUPPORT BRACKET IN ADDITION TO THE BACKING ZEE REQUIREMENTS. WHEN DIRECTED BY THE ENGINEER, SIGN PANELS LESS THAN 48" MAY BE ATTACHED DIRECTLY TO "T" OR "U" BRACKETS WITHOUT ZEES.
2. U-BRACKETS MAY BE USED FOR MULTIPLE SIGN INSTALLATIONS.

SHEET 2 ST-19

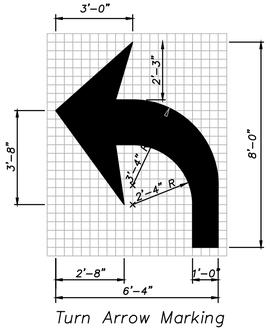
| CITY OF Joplin | CITY OF JOPLIN, MO | CKD BY: JOHNSON | PROJECT |
|---|---|---|---|
| | PUBLIC WORKS DEPT | DATE: 03/2019 | SIGN SUPPORT & INSTALLATION DETAILS |
| | ENGINEERING DIVISION | ENGINEER: HERTZBERG | |
| | 602 S MAIN ST 64801 | FILE: SIGN POST 2 | |

## Permanent Signing General Notes

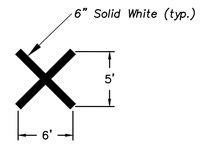
1. All permanent signing shall be provided and installed by the contractor as indicated in the plans and specifications.
2. All letter, number and symbol sizes, spacing and sign colors shall conform to the current Manual on Uniform Traffic Control Devices (MUTCD).
3. The contractor is responsible for avoiding any and all utilities when setting sign posts and will be required to coordinate his activities with all utility companies, for street light, traffic signal and fiber optic facilities whether their facility is indicated on the plans or not.
4. All new signs shall be located within public right-of-way.
5. All retro-reflective micro-encapsulated prismatic sheeting shall be ASTM Type XI. All signs shall be made from a combination retro-reflective sheeting background with electronic cuttable film applied to the surface. (Unless otherwise indicated in the plans or specifications). Process color inks or silk screening signs are not allowed.
6. All sign blank material shall be made of 0.08" aluminum except all overhead street name signs shall be made of 0.125" aluminum.
7. Existing street name signs in the way of construction:
   The street name signs shall be relocated out of the way of construction but in a conspicuous location for the driving public and emergency providers. The street name signs shall be reinstalled in their proper location as soon as possible unless otherwise indicated. The removal and re-installation of existing signs will be considered subsidiary to other bid items.
8. Signs shown to be installed on the side of poles shall be mounted by stainless steel mounting bands as detailed in the plans. All R10 series signs installed on a traffic signal mast arm shall be mounted with Astro-Brackets as specified.
9. All signs and posts shown in the plans shall be new unless otherwise indicated in the plans or by the Traffic Service Inspector.
10. All existing regulatory signs, warning signs, and street name signs will be used in place during construction and protected from damage unless otherwise indicated in the plans. If the contractor damages any existing sign or posts during construction, he shall be required to reinstall new signs and posts of the same type to replace the damaged equipment.
11. Any existing permanent signs shown to be removed by the contractor for construction purposes other than stop signs, yield signs or street name signs shall be stockpiled in one location and delivered to the City's public works facility. At least 24-hour advance notice shall be provided. The contractor shall be responsible for removing and stockpiling equipment in good condition and is fully responsible for the equipment until they are delivered to the maintenance facility.
12. All stop, yield, warning signs, and street name signs shall be maintained in a conspicuous location for the driving public. All stop and yield signs removed for construction purposes can be temporarily erected (no less than 7 feet vertical from grade) until they can be permanently re-installed. Any temporary stop or yield sign installation to be left in place overnight will require prior approval from the Traffic Services Inspector.
13. All existing signs, other than stop, yield, warning signs, or street name signs, shown to be used in place shall be protected from damage by the contractor. The contractor may temporarily remove the sign and post to prevent damage at the approval of the inspector. Storage of the signs & posts is the responsibility of the contractor.
14. City of Joplin to provide street name design detail to contractor.

## Pavement Marking General Notes

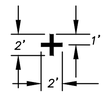
1. All permanent pavement markings shall be provided and installed by the contractor as indicated in the plans or as directed by the City Inspector.
2. Pavement markings on concrete shall be per the Standard Specifications, Section 2306 unless otherwise indicated on the plans or directed by the City Inspector. See the Pavement Marking Material Matrix.
   2.1. All longitudinal lines shall be epoxy material, or inlaid patterned cold plastic as indicated in the plans.
   2.2. All transverse lines and symbol markings shall be inlaid patterned cold plastic.
   2.3. All patterned cold plastic pavement marking material, including symbols and words, installed on concrete surfaces shall have a black contrasting edge.
3. Pavement markings on asphalt shall be per the Standard Specifications, Section 2306 unless otherwise indicated on the plans or directed by the City Inspector. See the Pavement Marking Material Matrix.
   3.1. All longitudinal lines shall be hot applied thermoplastic material.
   3.2. All transverse lines and symbol markings shall be pre-formed thermoplastic material unless otherwise stipulated below.
4. Liquid pavement marking material may be used for transverse lines under the following stipulations:
   4.1. Shall be applied by a push cart.
   4.2. Only one pass with the thermoplastic pavement marking equipment shall be allowed in order to provide the required line width according to the plans. Multiple passes of narrower lines with overlaps to provide the required width shall not be allowed.
   4.3. Liquid pavement marking material shall not be used for word or symbol markings, unless applied with appropriate templates as indicated in the plans.
5. Crosswalk lines shall be installed such that the minimum distance between the inside edge of the line to the inside edge of line is 6 feet.
6. Stop lines shall be installed such that the minimum distance between the outside edge of the back crosswalk line and the trailing edge of the stop line is 4 feet.
7. Skip lines shall not extend past the stop bar or into the crosswalk.
8. White broken lane lines shall be carried through intersections with private streets unless there is a left turn bay into the private street. Then a gap should be left in the broken white lane lines for the left turn movement to pass through.
9. The proposed permanent markings shall be laid out by the contractor in advance of the marking installation. Markings shall not be applied until the layout and conditions of the surface have been approved by the City Inspector.



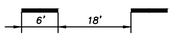

Turn Arrow Marking



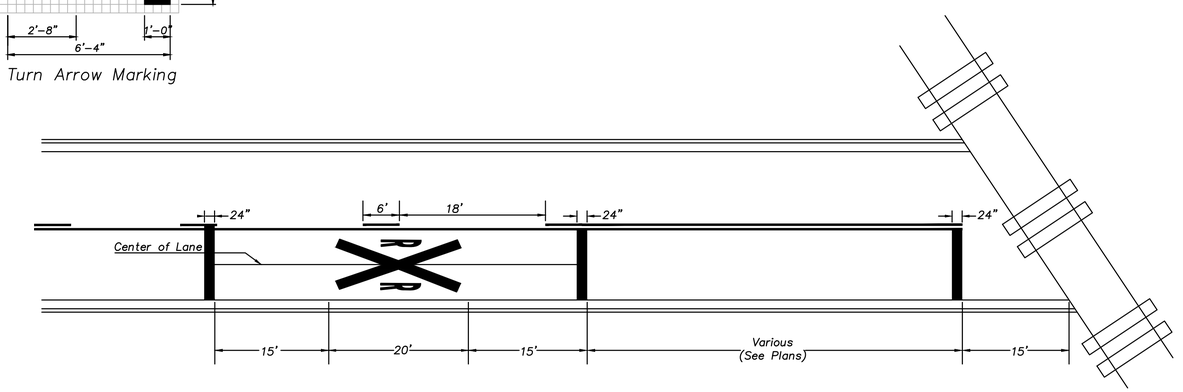

Parking Pavement Marking Detail




Parking Space Marking




6" BROKEN WHITE LANE LINE




Grade Crossing Pavement Markings

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Joplin, MO 64801

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PROFESSIONAL ENGINEER
07/17/26

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

PAVEMENT MARKING AND SIGNING

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2026

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|---|---|
| drawn by: | SRH |
| checked by: | JMP |
| approved by: | JSS |
| QA/QC by: | JSS |
| project no.: | 023-00893 |
| drawing no.: | F_SAS_02300893.DWG |
| date: | 02/11/2026 |

| PAVEMENT MARKING QUANTITIES | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | UNIT TYPE | ESTIMATE QUANTITY |
| 1 | 4" YELLOW | LF | 4948 |
| 2 | 6" SOLID WHITE | LF | 2185 |
| 3 | 6" DASHED WHITE | LF | 1173 |
| 4 | 24" SOLID WHITE | LF | 339 |
| 5 | ACCESSIBLE PARKING MARKING* | EA | 8 |
| 6 | LEFT/RIGHT TURN ARROW WHITE | EA | 5 |
| 7 | RR CROSSING MARKINGS | EA | 4 |

ALL PROPOSED MARKINGS SHALL BE THERMOPLASTIC OR PRE-FORMED THERMOPLASTIC
*ACCESSIBLE PARKING MARKINGS TO BE COORDINATED WITH THE CITY

| PERMANENT SIGNING QUANTITIES | |
|---|---|
| Item | Total |
| Relocated Sign Assemblies onto New Sign Post | 32 |
| Relocated Sign Assemblies onto New Street Light Poles | 6 |
| PIP Sign and Post Assemblies | 12 |
| Proposed Sign on New Post | 4 |

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REVISIONS

PAVEMENT MARKING AND SIGNING

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

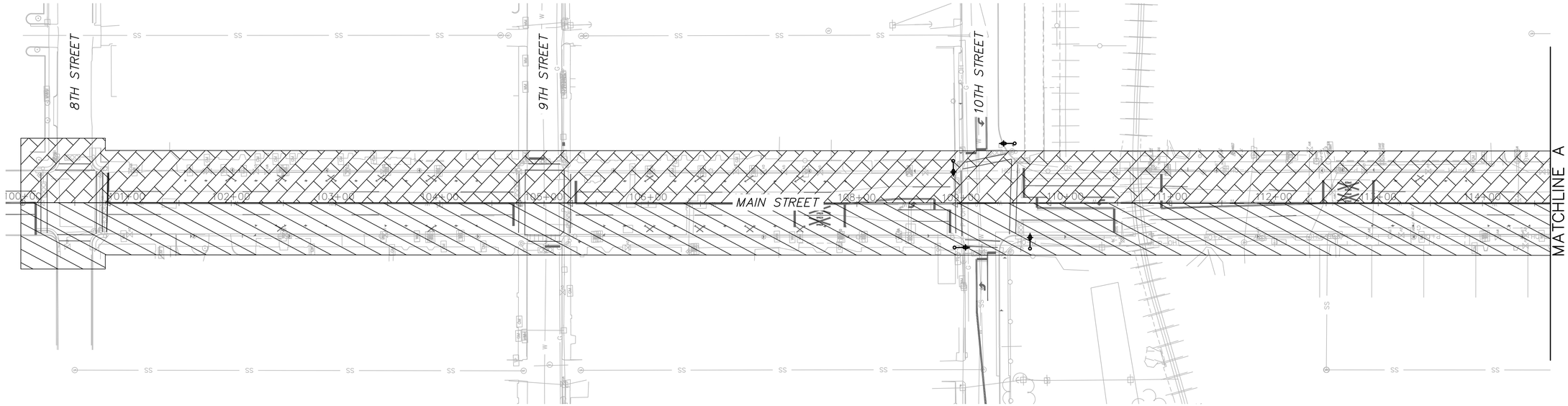
JOPLIN, MO

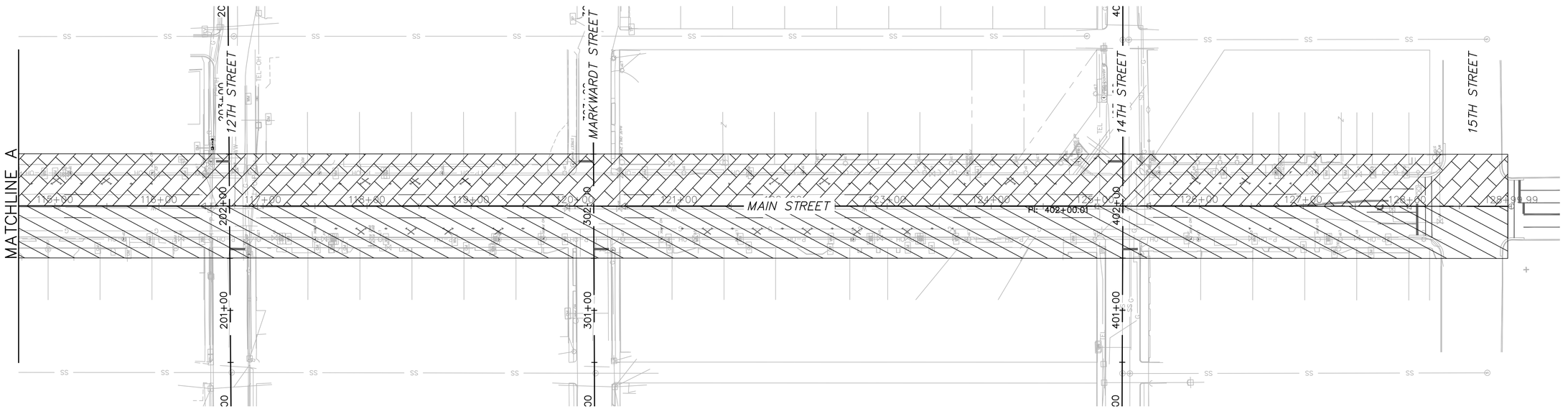
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XREFS: V_XTOPO_02300893 V_TOPO_62625 V_XBOU_62625 T_PALGN_62625A F_PTBLK_02300893
USER: jpudlowski
F_SAS-BASE_02300893 T_PBASE_02300893 T_PBASE_ADD-ALT_02300893 T_PSTRP_02300893




SEQUENCING PLAN:

PHASE 1: CONSTRUCT NORTHBOUND LANES, STREETLIGHTS, SIDEWALKS, CURBS, AND LANDSCAPING FROM 8TH STREET TO 15TH STREET. SHIFT TWO-WAY TRAFFIC TO THE SOUTHBOUND LANES. CONSTRUCT ALL ROADWAY AND STORM IMPROVEMENTS.

PHASE 2: CONSTRUCT SOUTHBOUND LANES, STREETLIGHTS, SIDEWALKS, CURBS, AND LANDSCAPING FROM 8TH STREET TO 15TH STREET. SHIFT TWO-WAY TRAFFIC TO THE NORTHBOUND LANES. CONSTRUCT ALL ROADWAY AND STORM IMPROVEMENTS.

SEE SHEET 132 FOR FULL INTERSECTION CLOSURE INFORMATION.

## LEGEND

- Phase 1 Work Area
- Phase 2 Work Area

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Missouri Certificate of Authority # 001592
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| | | REVISIONS | |

TRAFFIC CONTROL PLANS
CONSTRUCTION SEQUENCING PLAN

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

2026

JOPLIN, MO

| | |
|---|---|
| drawn by: | SRH |
| checked by: | JMP |
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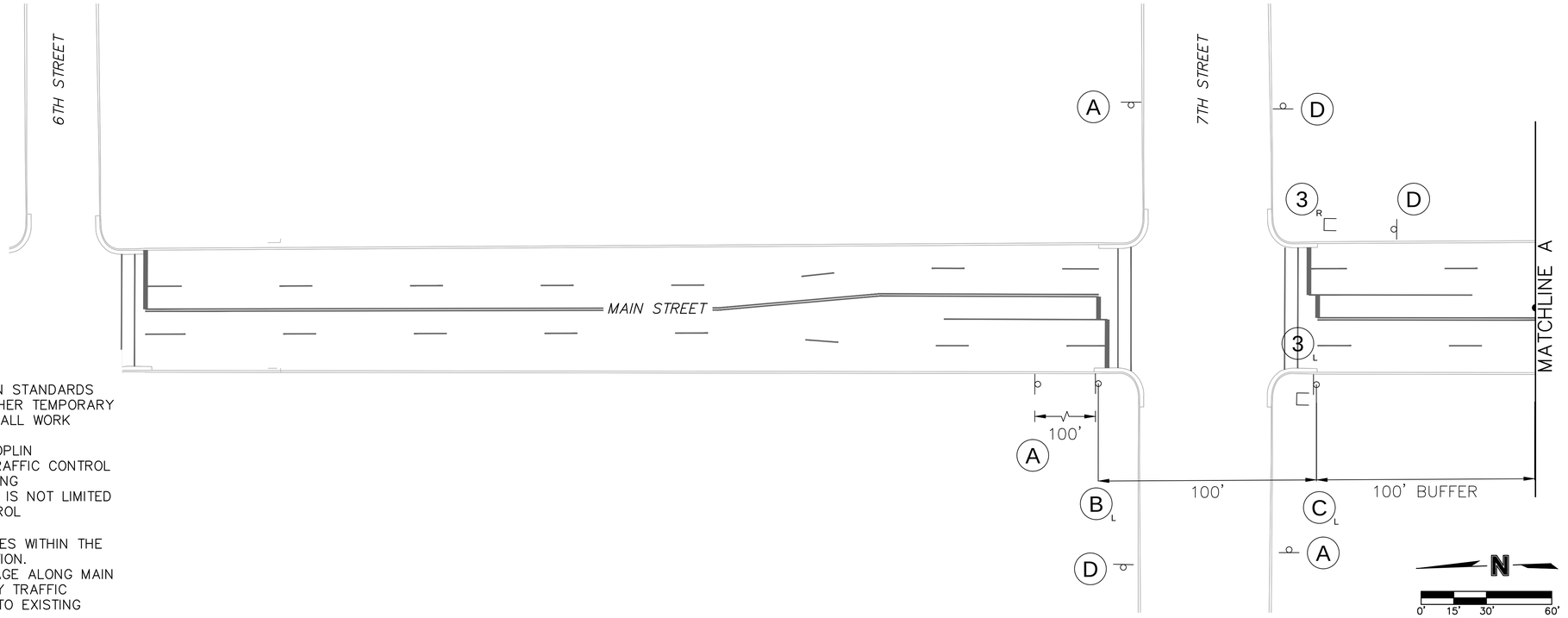
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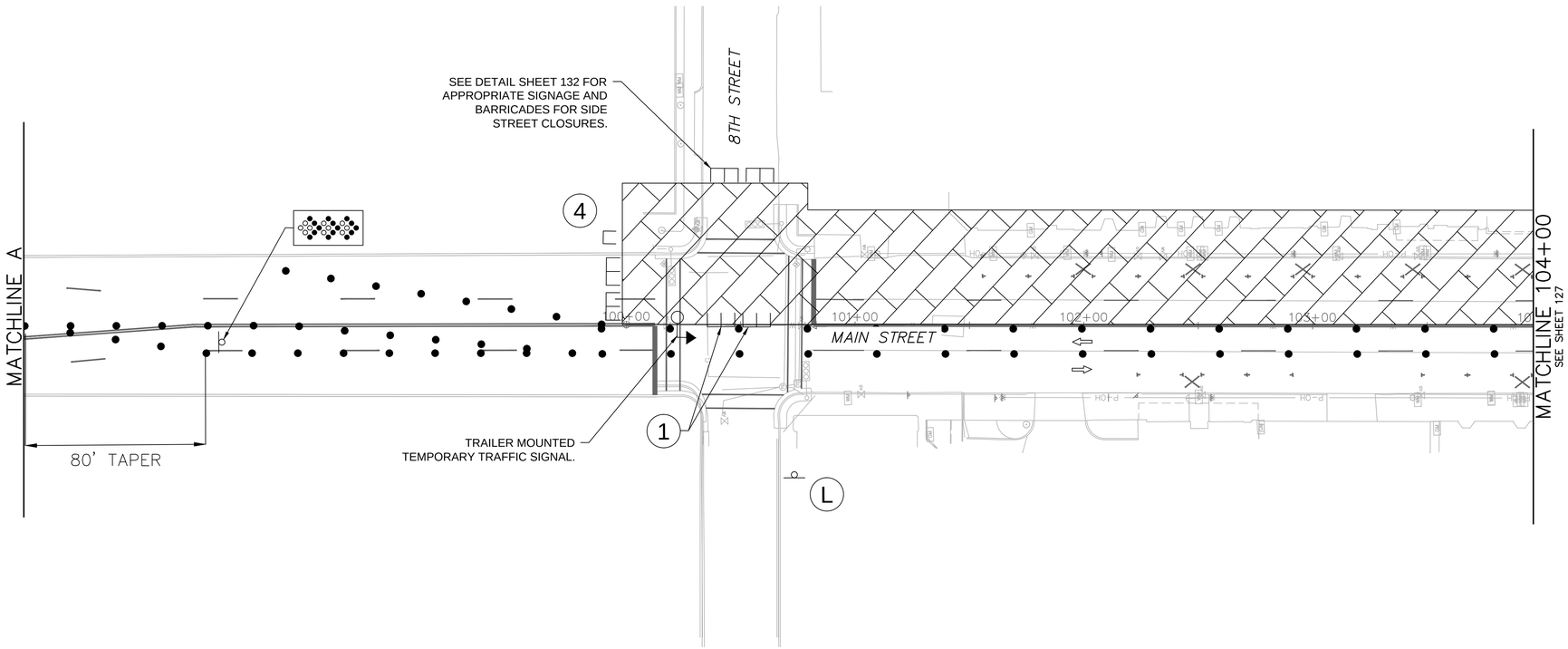
## LEGEND

- Phase 1 Work Area
- Type III Barricade
- ADA Barricade
- Sign Symbol
- Channelizing Device
- Direction of Traffic
- Trailer Mounted Temp. Signal

GENERAL NOTES:

1. CONTRACTOR SHALL FOLLOW CITY OF JOPLIN STANDARDS AND SPECIFICATIONS FOR THIS AND ALL OTHER TEMPORARY TRAFFIC CONTROL MEASURES UTILIZED FOR ALL WORK LISTED IN THESE PLANS.
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JOSHUA PUDLOWSKI
NUMBER PE-2021009515
PROFESSIONAL ENGINEER
01/27/26

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REVISIONS

TRAFFIC CONTROL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

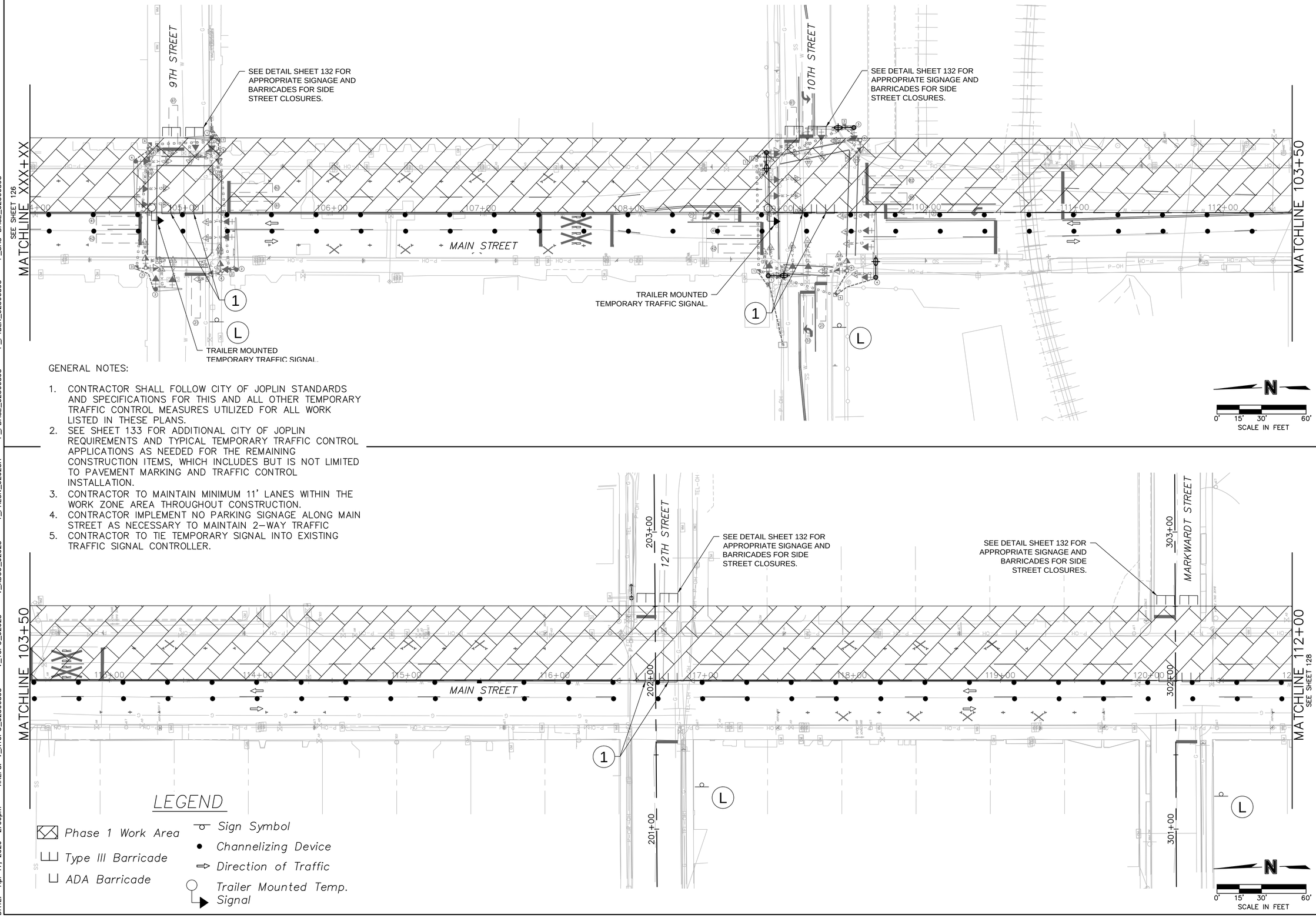
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JOPLIN, MO

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| checked by: | JMP |
| approved by: | JSS |
| QA/QC by: | JSS |
| project no.: | 023-00893 |
| drawing no.: | F_TRF_02300893.DWG |
| date: | 02/11/2026 |

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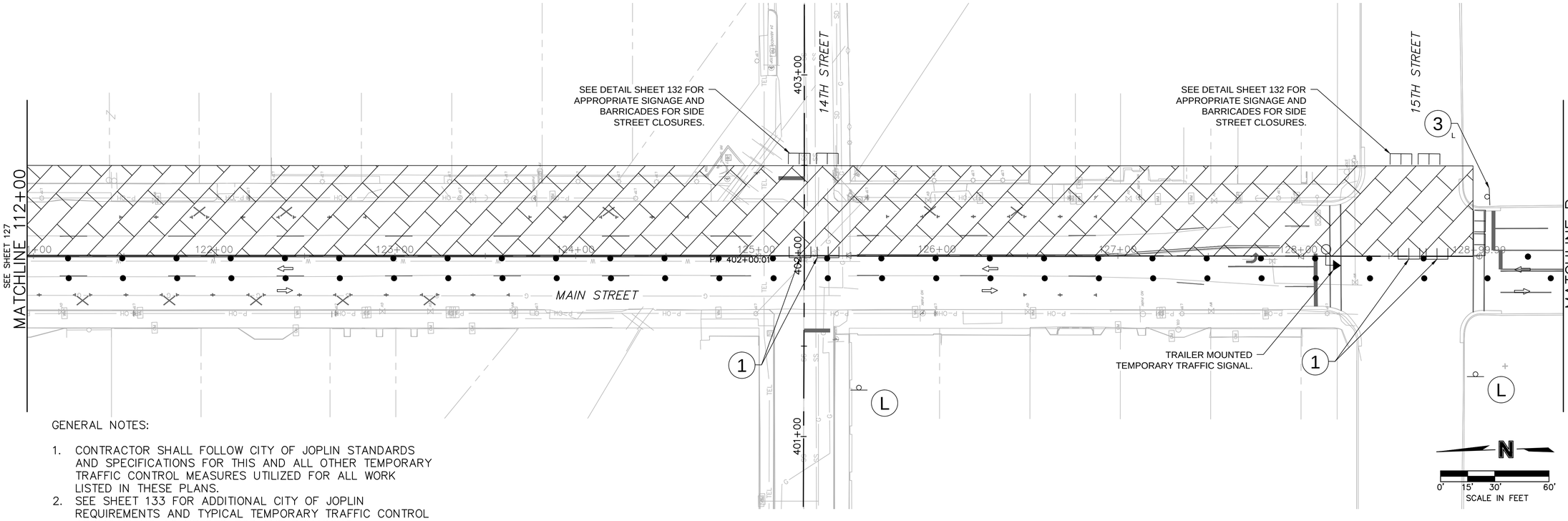
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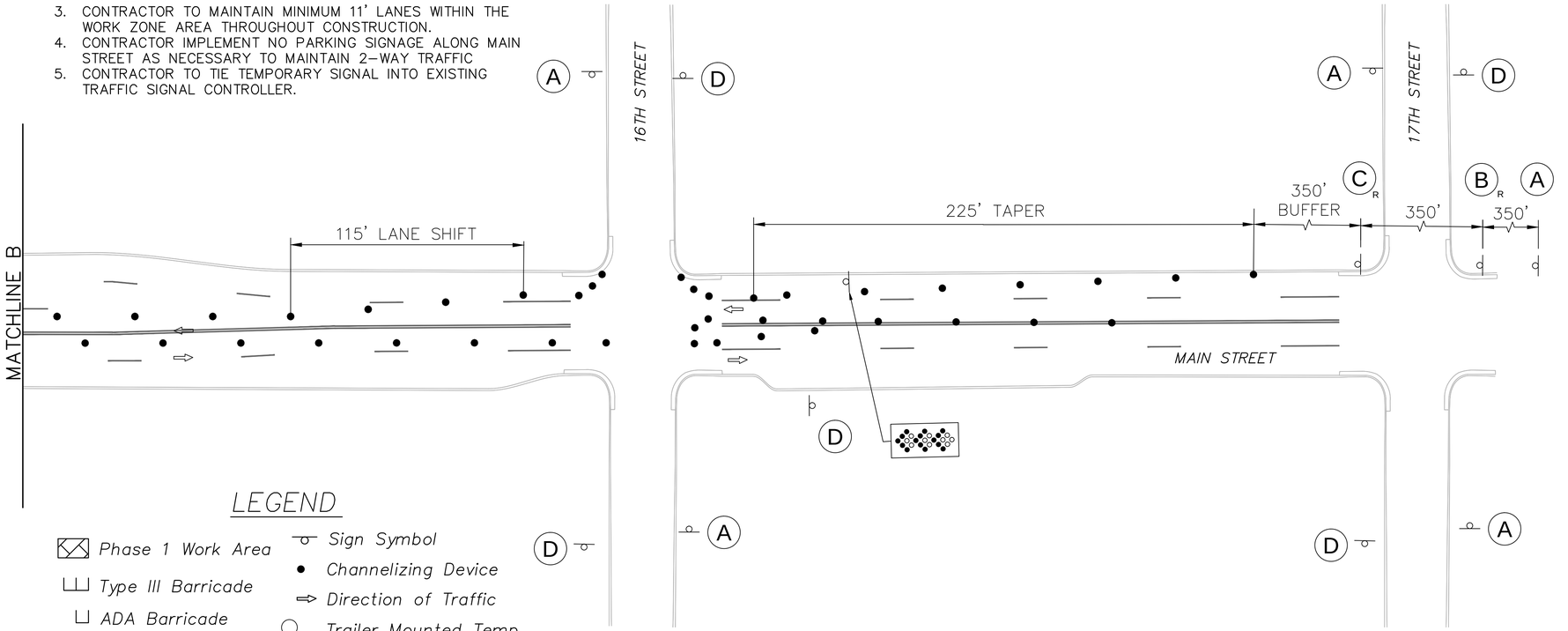
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TRAFFIC CONTROL PLANS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO 2026

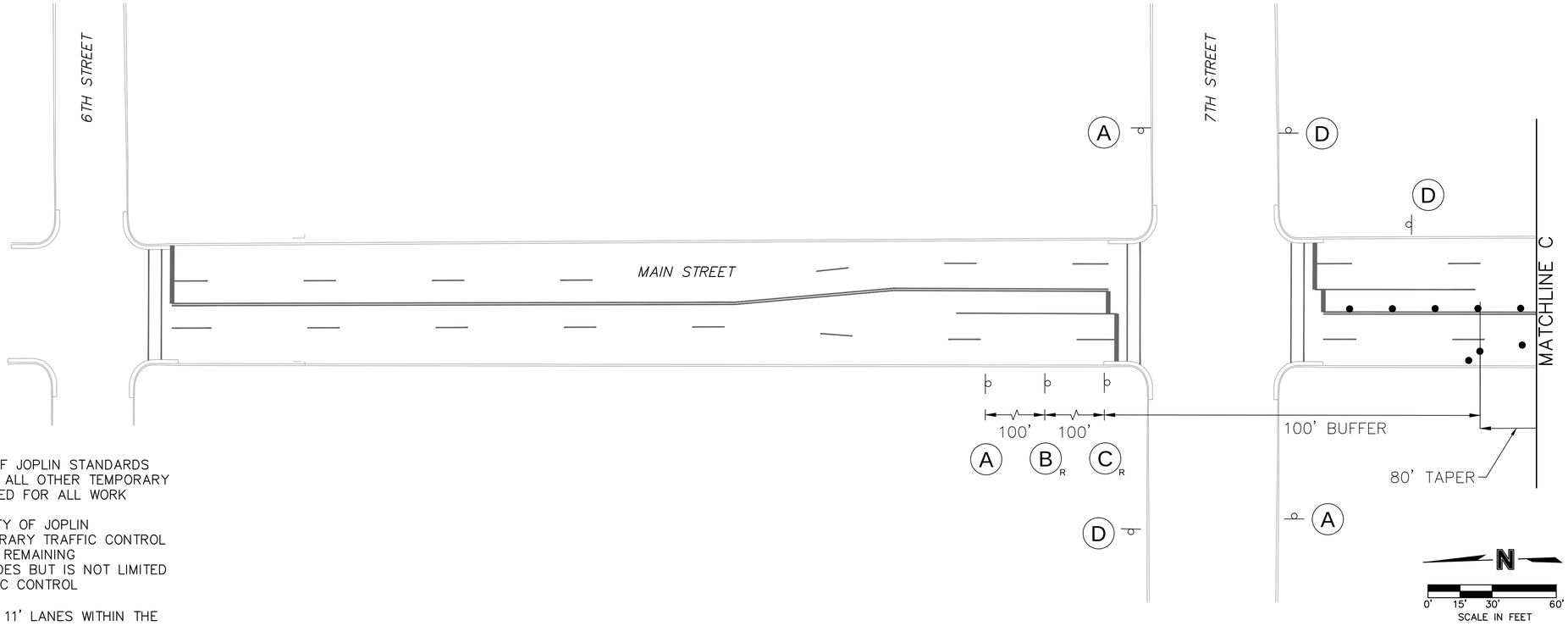
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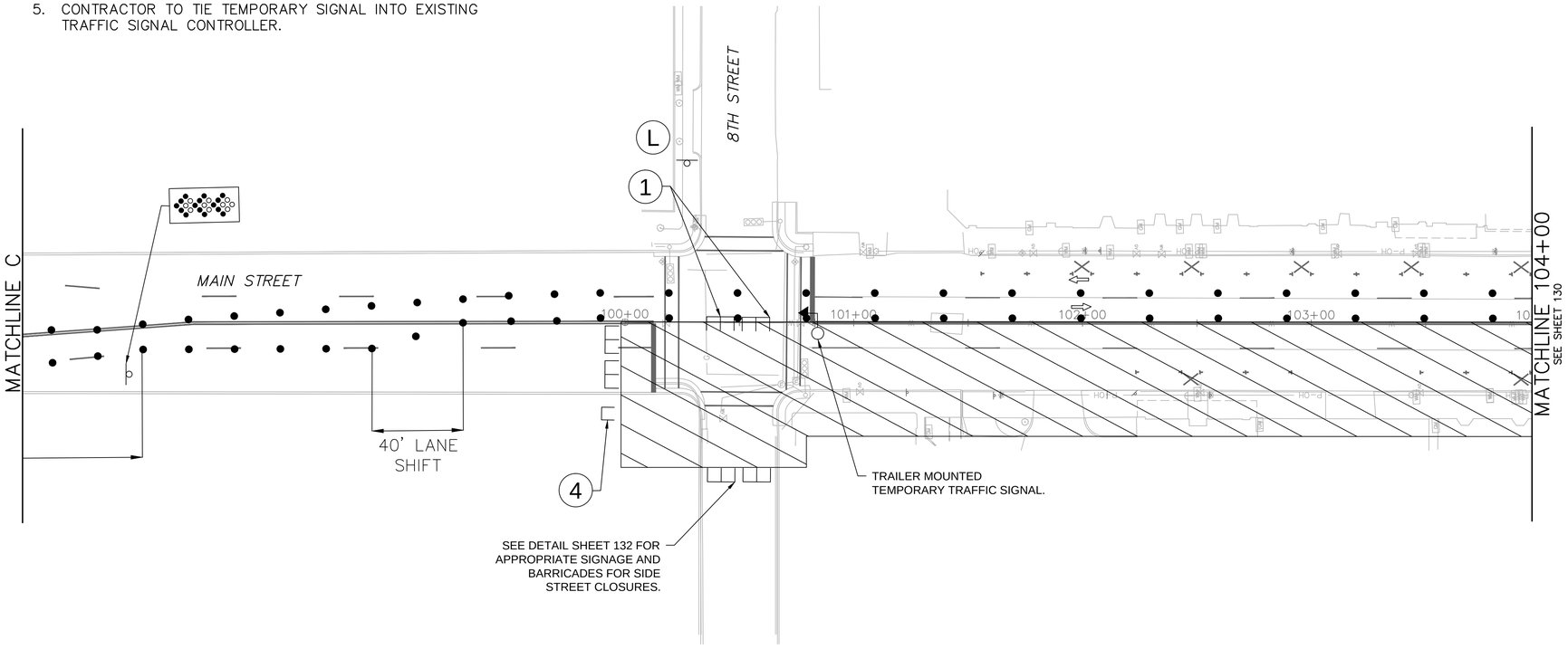
## LEGEND

- Phase 2 Work Area
- Type III Barricade
- ADA Barricade
- Sign Symbol
- Channelizing Device
- Direction of Traffic
- Trailer Mounted Temp. Signal




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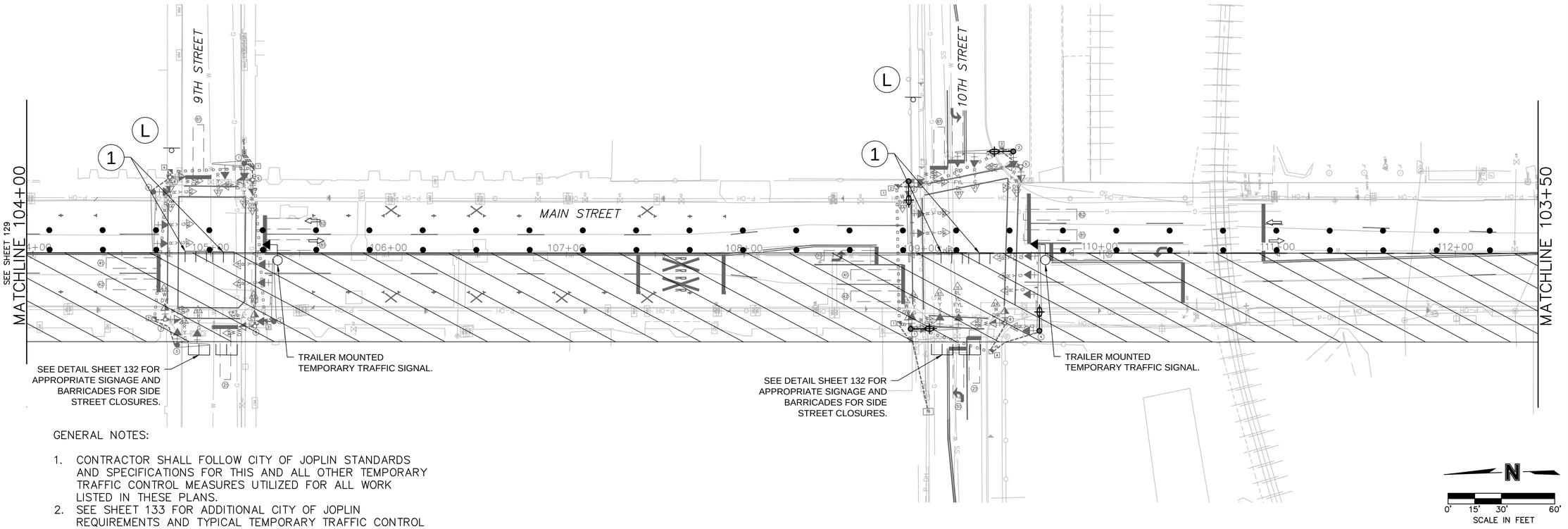
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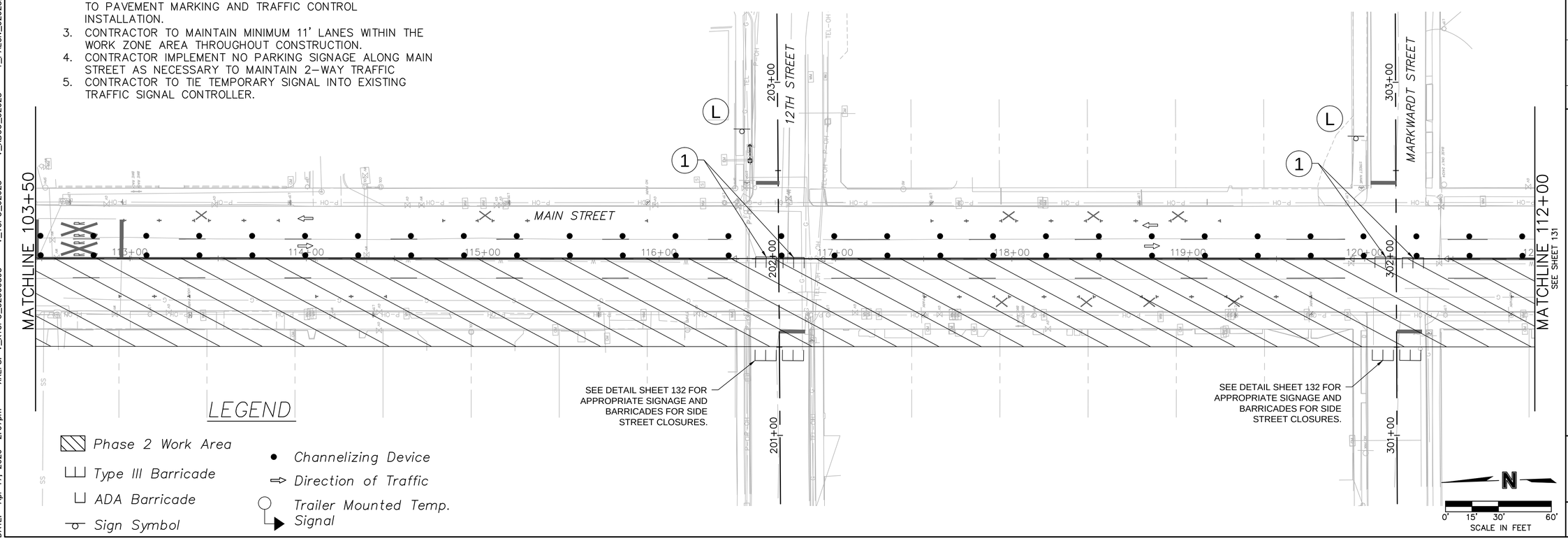
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TRAFFIC CONTROL PLANS

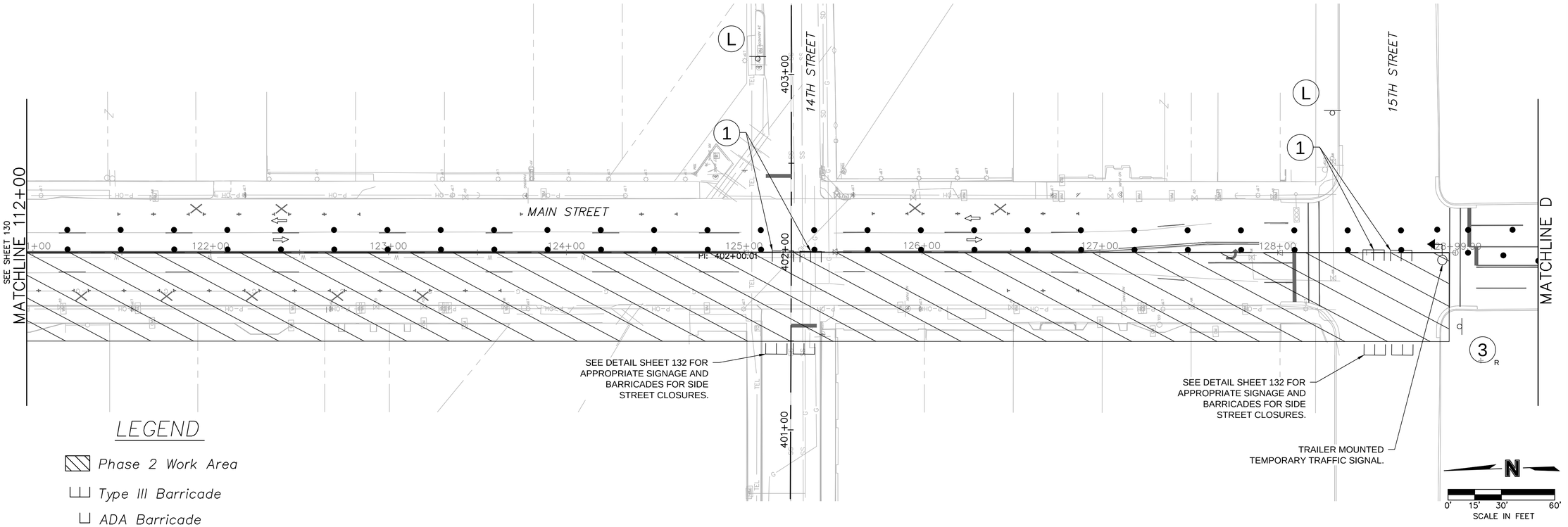
MAIN STREET STREETSCAPES
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JOPLIN, MO 2026

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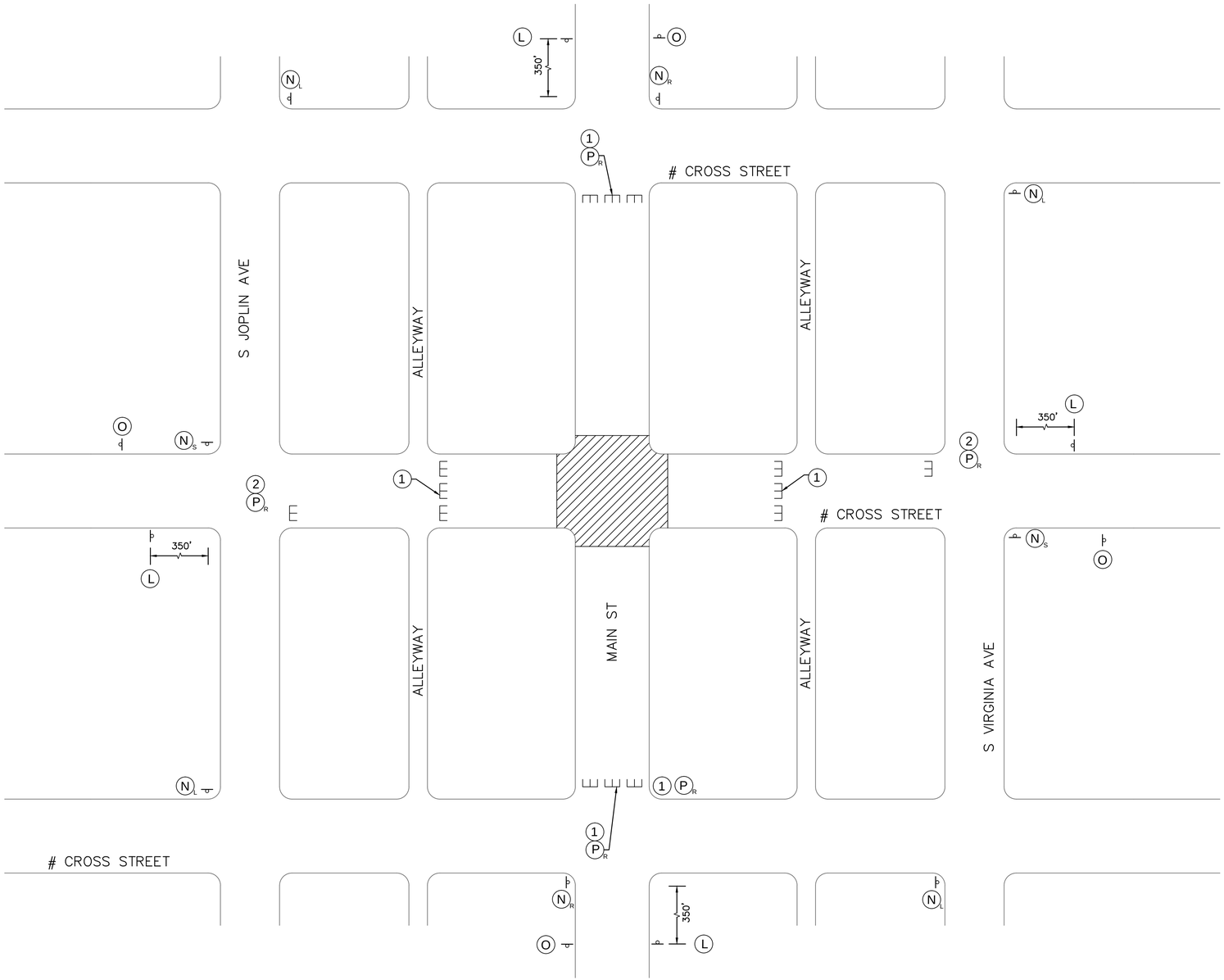
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ADDITIONAL NOTES:

CONTRACTOR SHALL SUBMIT FINAL TRAFFIC CONTROL DETOUR AND SIDEWALK DETOUR PLANS TO THE ENGINEER FOR APPROVAL TWO WEEKS PRIOR TO SCHEDULED CLOSURE.

CONSULT THE CONTRACT DOCUMENTS FOR MAXIMUM CLOSURE TIMELINES AND SCHEDULING REQUIREMENTS. ONLY ONE INTERSECTION MAY BE CLOSED AT A TIME. THIS PLAN IS VALID FOR CLOSING MAIN STREET INTERSECTIONS WITH 9TH STREET AND 10TH STREET.

A MINIMUM OF 48 HOURS NOTICE SHALL BE PROVIDED TO THE GENERAL PUBLIC VIA CHANGEABLE MESSAGE BOARDS PLACED AT ALL APPROACHES TO THE INTERSECTIONS AND/OR ROAD CLOSURES. ADDITIONALLY, A MINIMUM OF 48 HOURS NOTICE OF ROAD CLOSURES SHALL BE PROVIDED TO LOCAL MEDIA FOR DISPERSAL TO THE GENERAL PUBLIC.




PHASE 3 MAIN STREET CLOSURE DETAIL

CLOSE MAIN STREET TO ALLOW FOR CONSTRUCTION OF INTERSECTION. SOUTHBOUND MAIN ST TRAFFIC DETOUR WEST THEN SOUTH ON JOPLIN AVE. NORHTBOUND MAIN ST TRAFFIC DETOUR EAST THEN NORTH ALONG VIRIGINIA AVE.

LEGEND

- CONSTRUCTION AREA
- CHANNELIZER
- TEMPORARY SIGN
- TYPE III BARRICADE
- TYPE II BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

1.) CONTRACT SHALL COVER ALL MARKINGS AND SIGNING IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL MARKINGS AND SIGNING.

2.) ALL TRAFFIC CONTROL SHALL CONFORM TO SECTION 2305 OF THE CITY OF JOPLIN'S STANDARD SPECIFICATIONS AND JSP-6700-01, TRAFFIC CONTROL.

3.) FOR SIDEWALK CLOSURES FOLLOW DETAILS ON SHEET XX.


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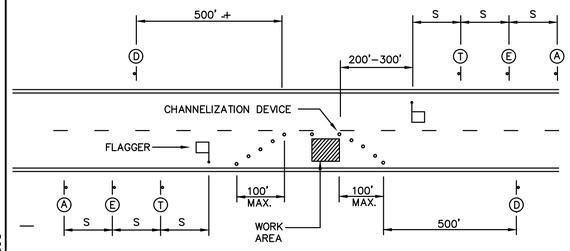
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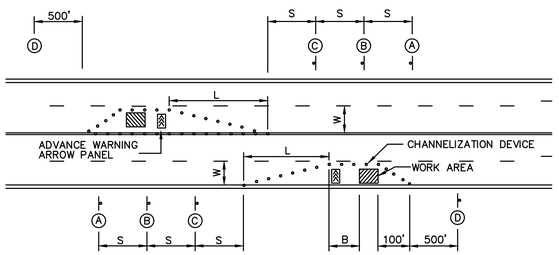
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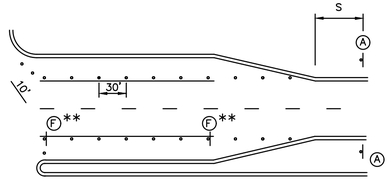

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DETAIL 1: TYPICAL CLOSURE – TWO–LANE STREET

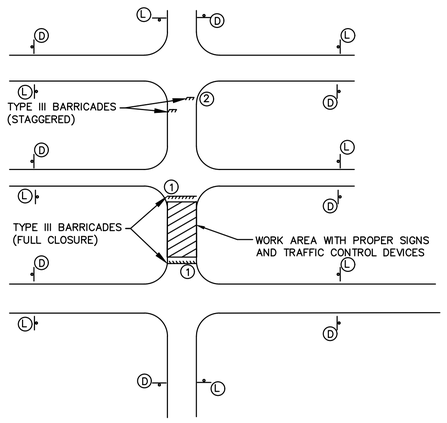



DETAIL 2: TYPICAL LANE CLOSURE – FOUR–LANE STREET



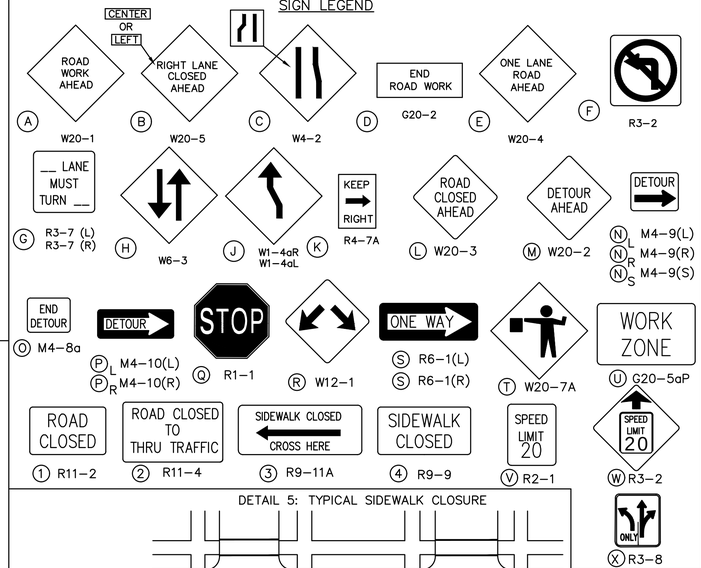

** USE ONLY AS APPROVED BY CITY TRAFFIC ENGINEER

DETAIL 3: TYPICAL RIGHT–TURN LANE AND LEFT–TURN LANE CLOSURES

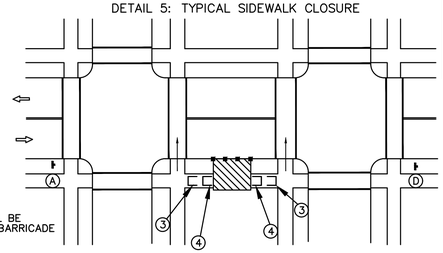



DETAIL 4: TYPICAL SIDE ROAD SIGNING FOR ROAD CLOSURE

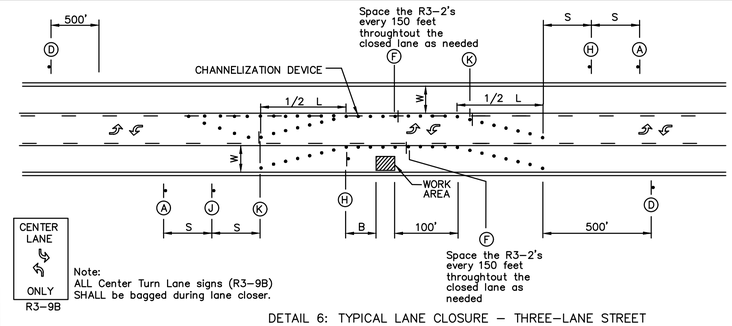
## SIGN LEGEND




DETAIL 5: TYPICAL SIDEWALK CLOSURE




NOTE: SIGNS SHALL BE MOUNTED TO ADA BARRICADE



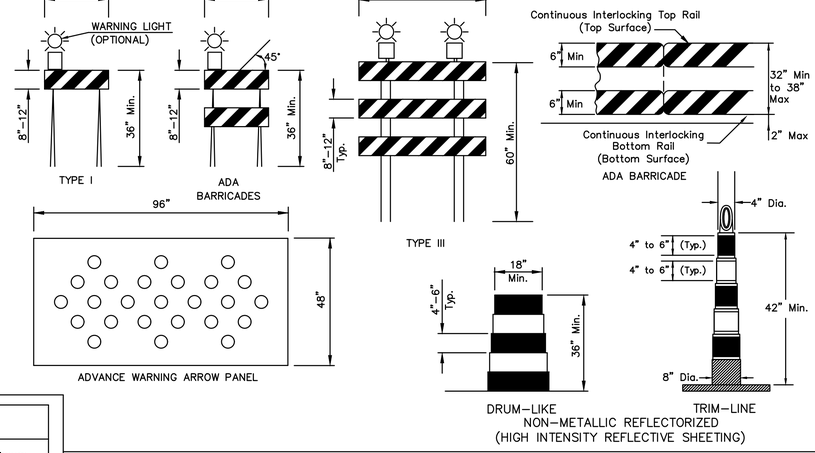

CENTER LANE ONLY R3–9B

Note: ALL Center Turn Lane signs (R3–9B) SHALL be bagged during lane closer.

DETAIL 6: TYPICAL LANE CLOSURE – THREE–LANE STREET

## GENERAL NOTES:

1. All signs, barricades, drums, markings and other traffic control devices shall conform to the Manual on Uniform Traffic Control Devices (M.U.T.C.D.), most current edition.
2. All traffic control devices shall be standard in size, shape, color and message, in good condition, and reflectorized. All signs and barricades in place at night shall be reflectorized with high intensity sheeting. All signs shall be securely mounted with height and lateral location as described in the M.U.T.C.D.
3. Warning lights should be used on all channelization devices and warning signs per M.U.T.C.D. Type A Low–Intensity Flashing Warning lights should be mounted on warning signs as well as barricades where used singley to warn users of potentially hazardous areas during nighttime hours. Type B High–Intensity Flashing warning lights should be used during day and nighttime operations to increase awareness of potentially hazardous areas. Type C Steady–Burn lights should be mounted on barricades where used in series to delineate the edge of the travel way.
4. Advance Warning Arrow Panels shall be used for all lane closures on multi–lane streets but should not be used in lieu of proper traffic control signs, barricades and channelization devices.
5. Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic or where construction activities impose a restriction on traffic, as directed by the Engineer in charge of construction. Where flaggers are used, advance signing shall be erected as shown above or as specified in the M.U.T.C.D. Flaggers shall meet the requirements in the M.U.T.C.D. in regard to character, training, attire and behavior.
6. Channelization devices used in the street shall be either drums, cones or Trimline channelizers.
7. Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
8. The Contractor shall place as many barricades as needed to effectively shield pedestrians and traffic from exposed objects, excavations and construction activities. ADA Pedestrian Barricades shall be installed around all excavations left open during non–construction times or as directed by the Engineer in charge of construction.
9. Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
10. Construction materials shall be kept off of sidewalks, consolidated in one location within City Right–Of–Way, and removed daily unless otherwise approved by the Engineer in charge of construction.
11. Dirt, mud and other construction debris on streets and sidewalks shall be removed immediately.
12. The Contractor shall not perform any work that will restrict traffic in any way between the hours of 7:00 a.m. and 8:30 a.m. or 4:30 p.m. and 6:00 p.m. unless prior approval has been given.
13. The Contractor shall be responsible for maintaining all traffic control devices on an around–the–clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
14. The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of motorist, pedestrians, and workers at all times. Any additional quantities of traffic control devices necessary to complete the contract or as ordered by the Engineer shall be considered subsidiary to the contract bid price.
15. Construction vehicles parked along streets and construction signs shall not restrict sight distance for vehicles exiting at streets or any drives.
16. Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the Engineer or representative, the City/Controlling Jurisdiction may take one or more of the following actions:
    A) Employ another agency to correct deficiencies in signing or warning devices and deduct the cost from the contractor's pay estimate
    B) Suspend all pay Estimates until deficiencies are corrected.
    C) Stop the work until deficiencies are corrected.
    D) Place the contractor in default.
17. The Contractor shall keep roadway closures due to construction activities to a minimum and provide advanced notice to affected users.
18. The Contractor shall notify enforcement and emergency agencies before the start of construction to request their cooperation and to provide coordination of services when emergencies arise during the construction at the project site. When the contractor completes this notification with enforcement and emergency agencies, a report shall be furnished to the engineer on the status of incident management.
19. The Contractor may, if need arises or at the request of the Engineer, place reduced speed limit signing and work zone speed limit signing in advance of all active work zone areas. Work zone speed limit reduction shall not be greater than 10 mph throughout construction areas without advanced signing in place. Contractor shall cover or replace all speed limit signs in conflict with the work zone speed limit throughout the construction area.




| Guidelines for length of longitudinal buffer space (B) | |
|---|---|
| Speed* (mph) | Length (Feet) |
| 20 | 35 |
| 25 | 55 |
| 30 | 85 |
| 35 | 120 |
| 40 | 170 |
| 45 | 220 |
| 50 | 300 |

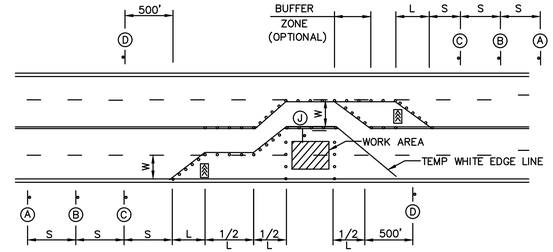
*Posted speed

| SIGN SPACING(S) | |
|---|---|
| Speed Limit M.P.H. | Spacing (Feet) |
| ≤ 30 | 100 |
| 35 – 45 | 350 |
| ≥ 55 | 500 |

| MAXIMUM CHANNELIZATION SPACING IN FEET * | | |
|---|---|---|
| Speed Limit M.P.H. | Along Taper | After Taper |
| 20 | 20 | 40 |
| 25 | 25 | 50 |
| 30 | 30 | 60 |
| 35 | 35 | 70 |
| 40 | 40 | 80 |
| 45 | 45 | 90 |
| 50 | 50 | 100 |
| 55 | 55 | 100 |

* The maximum distance in feet between devices in a taper should not exceed 1.0 times the speed limit in MPH.

| TAPER DETAIL | | | | |
|---|---|---|---|---|
| Speed Limit M.P.H. | Minimum Taper Length (L) Lane Width (W) 10 | 11 | 12 | Minimum Number of Channelizing Devices for Taper |
| 20 | 70 | 75 | 80 | 5 |
| 25 | 105 | 115 | 125 | 6 |
| 30 | 150 | 165 | 180 | 7 |
| 35 | 205 | 225 | 245 | 8 |
| 40 | 270 | 295 | 320 | 9 |
| 45 | 450 | 495 | 540 | 13 |
| 50 | 500 | 550 | 600 | 13 |
| 55 | 550 | 605 | 660 | 13 |




DETAIL 7: TYPICAL LANE CLOSURE – FOUR–LANE STREET


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PROFESSIONAL ENGINEER
02/11/26

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REVISIONS

TRAFFIC CONTROL DETAILS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

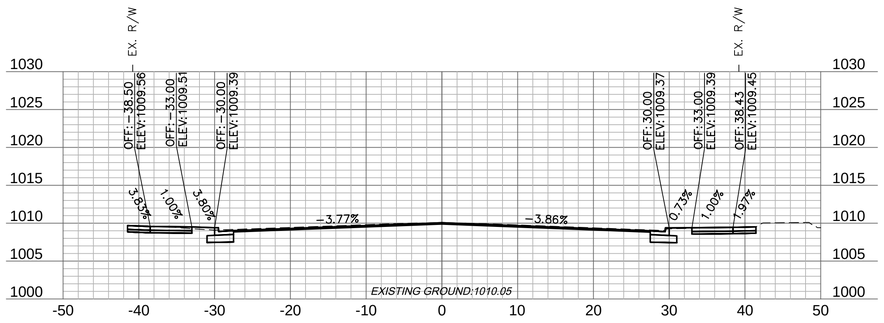
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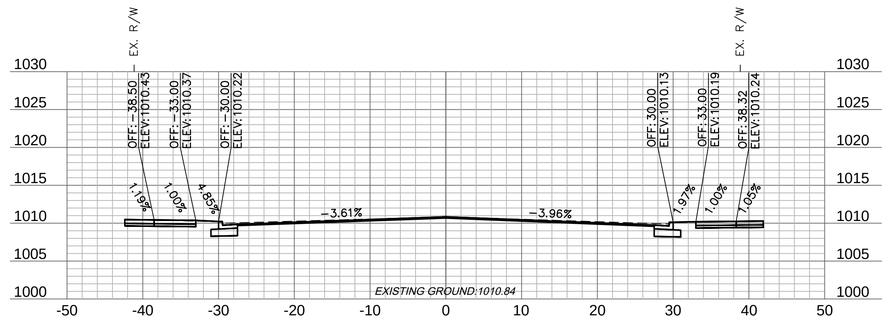
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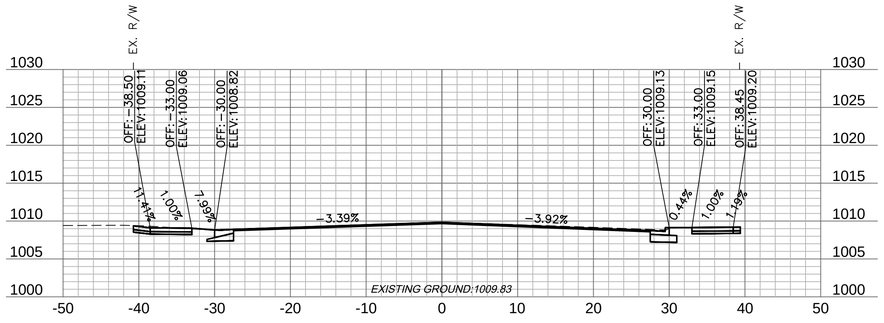
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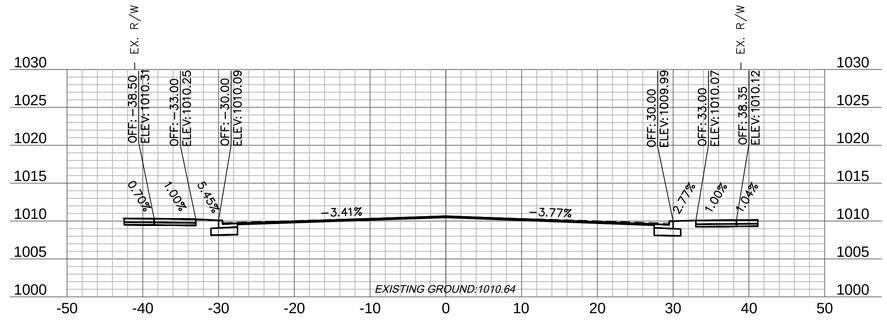

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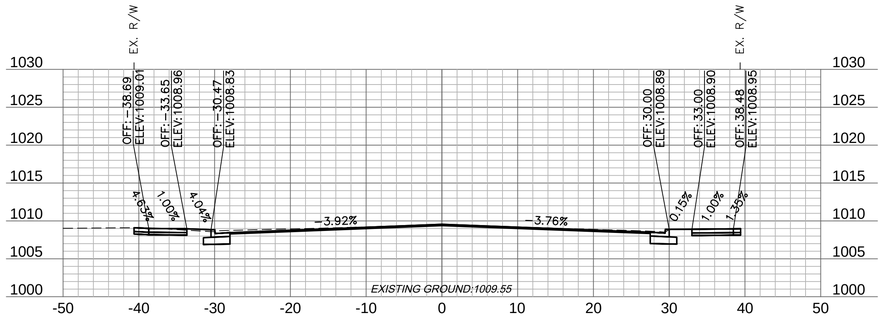

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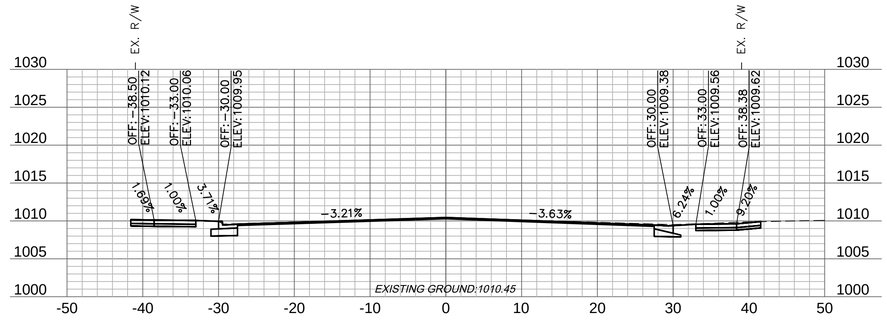

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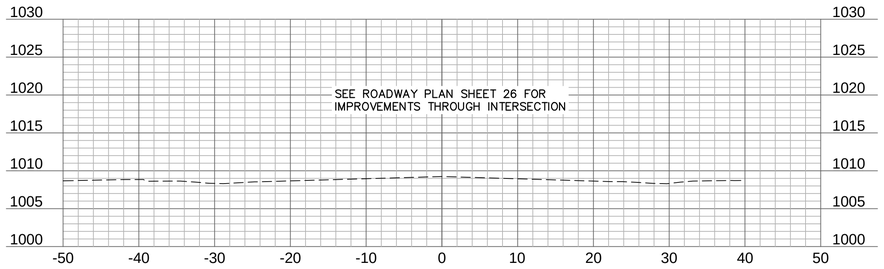

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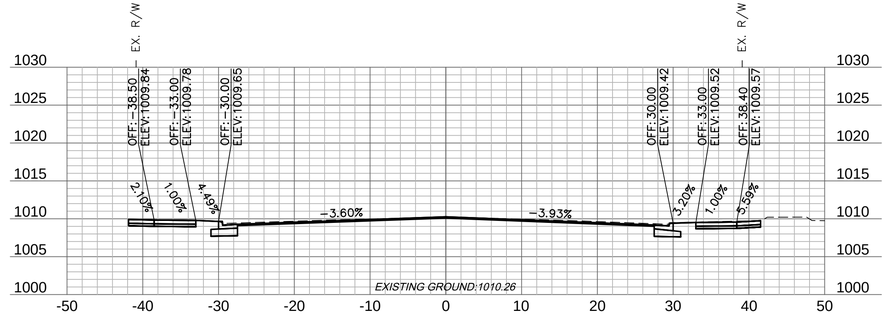

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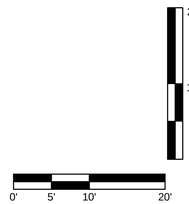

102+00




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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER

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REVISIONS

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MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

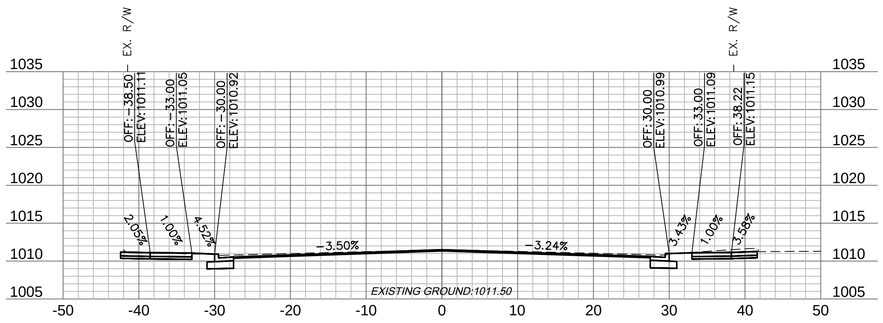
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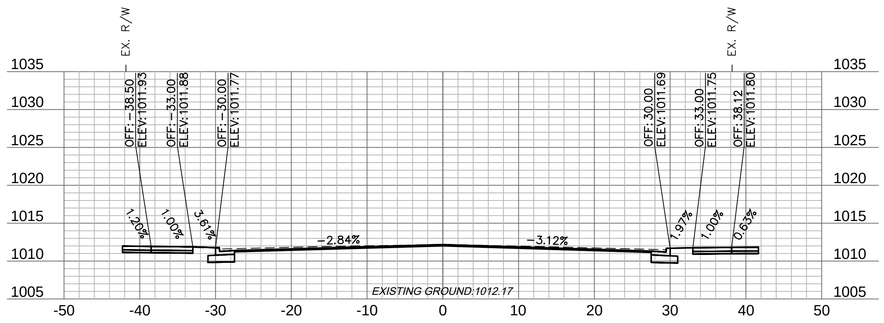
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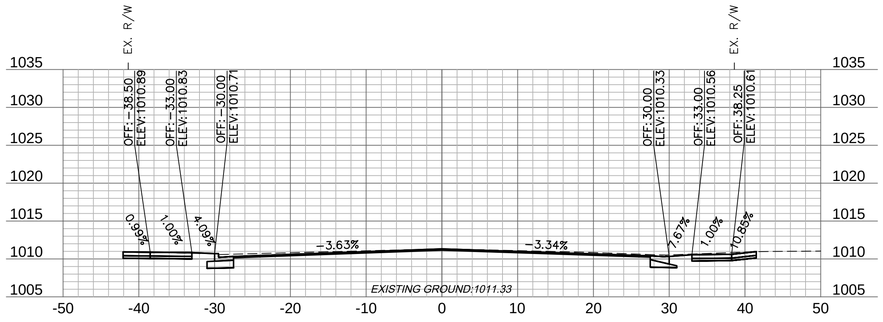
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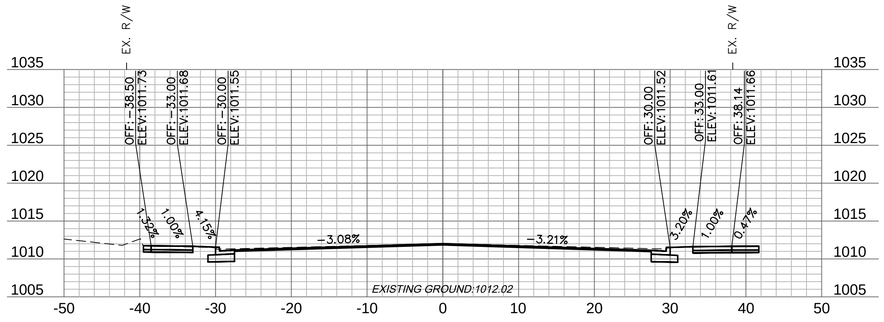

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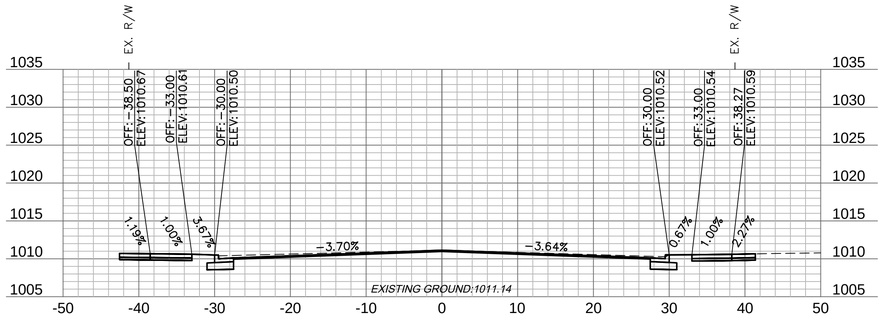

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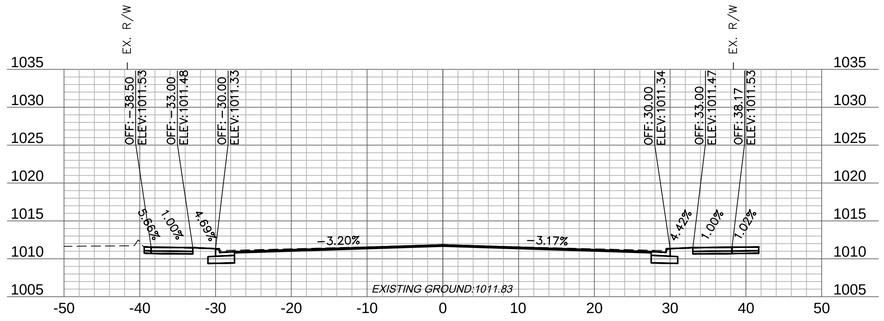

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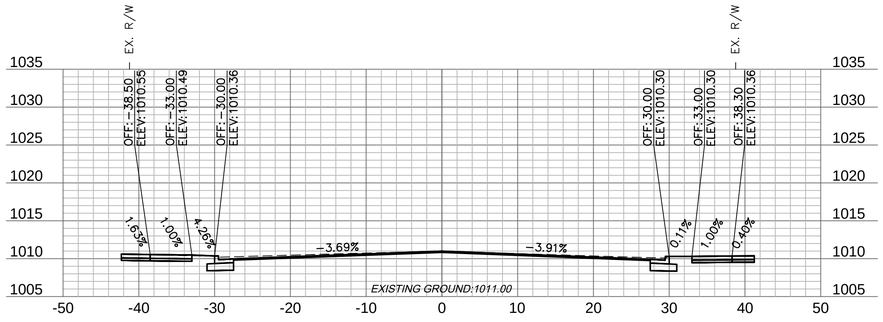

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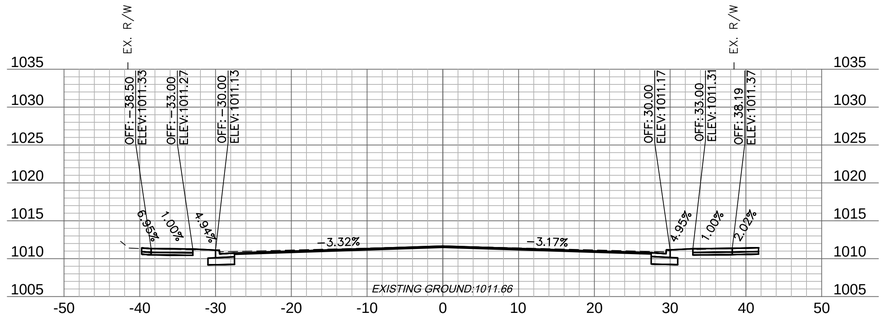

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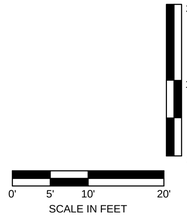

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REVISIONS

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MAIN STREET ROADWAY CROSS SECTIONS
MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

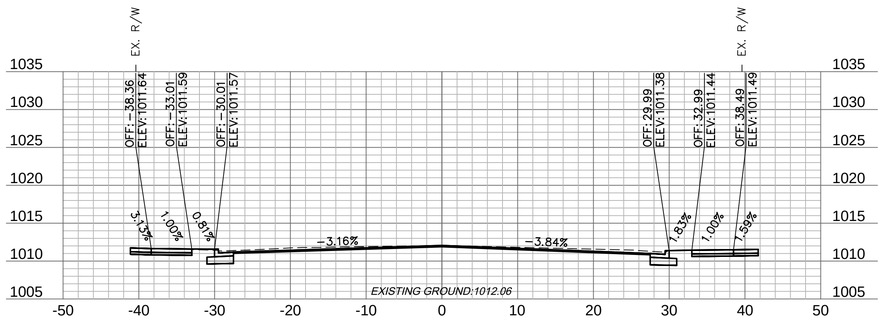
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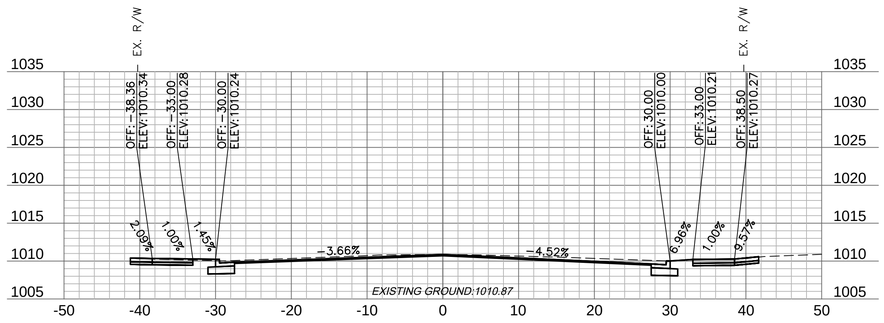
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135 of 162

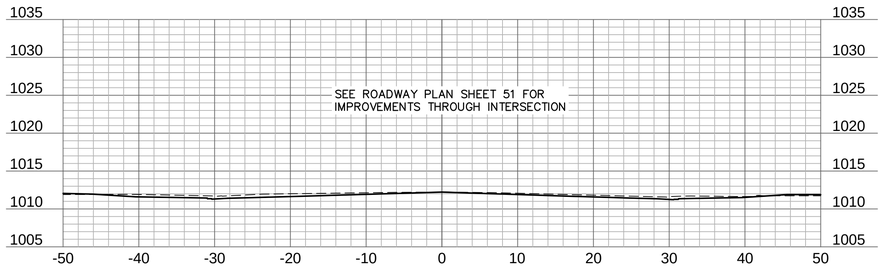
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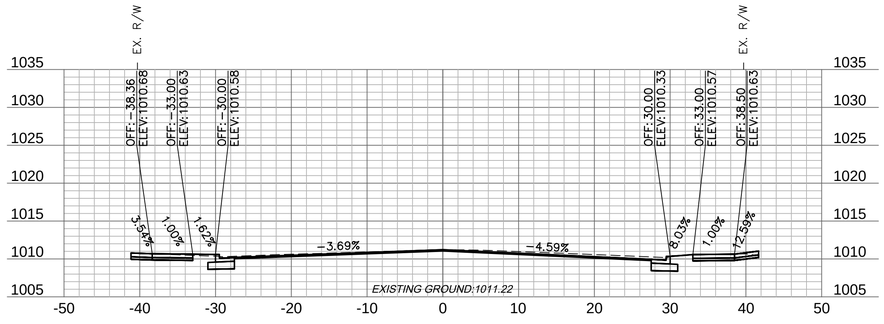

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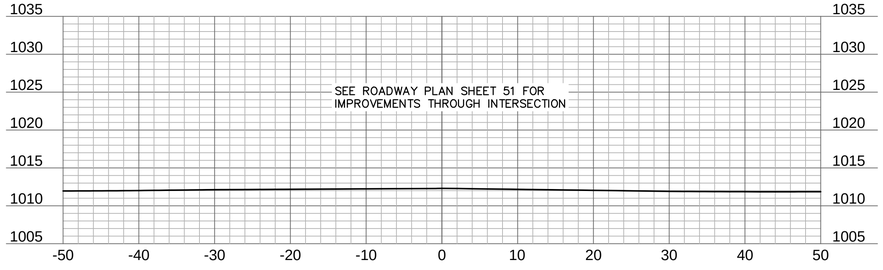

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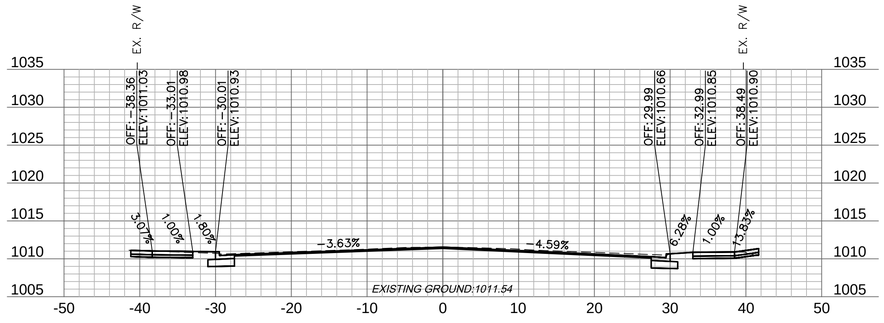

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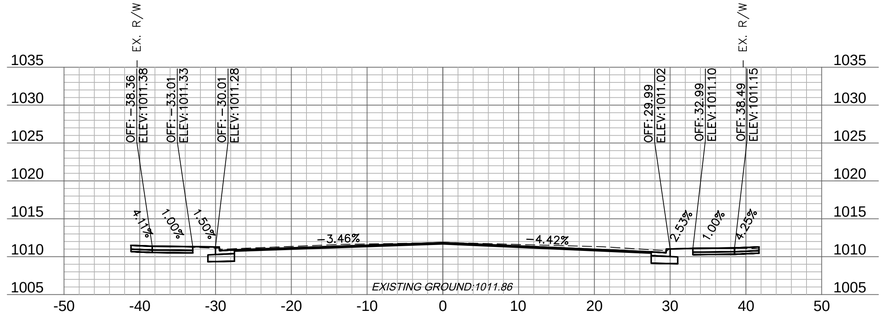

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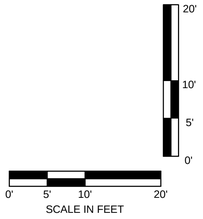

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PROFESSIONAL ENGINEER

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REVISIONS

MAIN STREET ROADWAY CROSS SECTIONS
MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

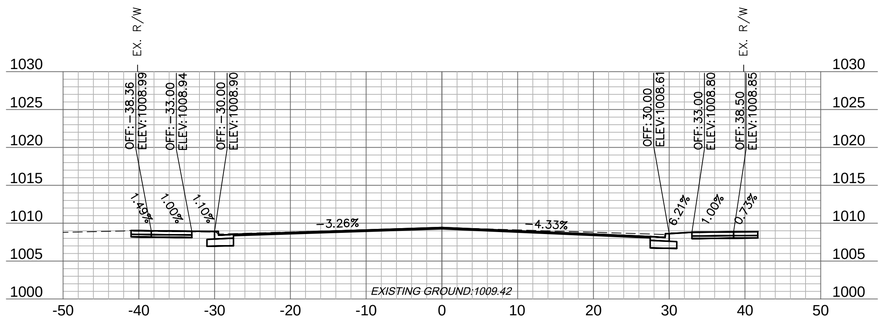
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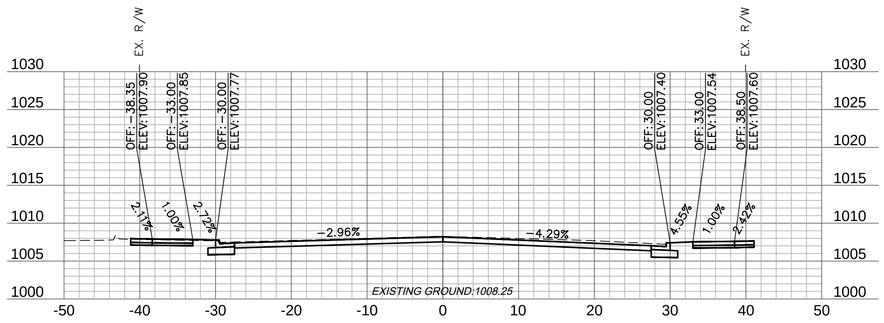
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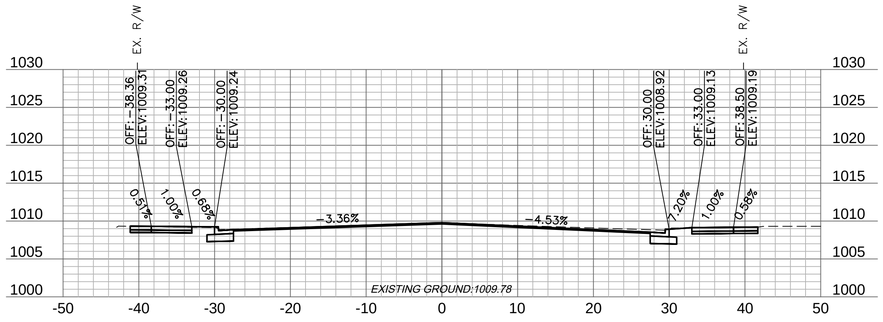
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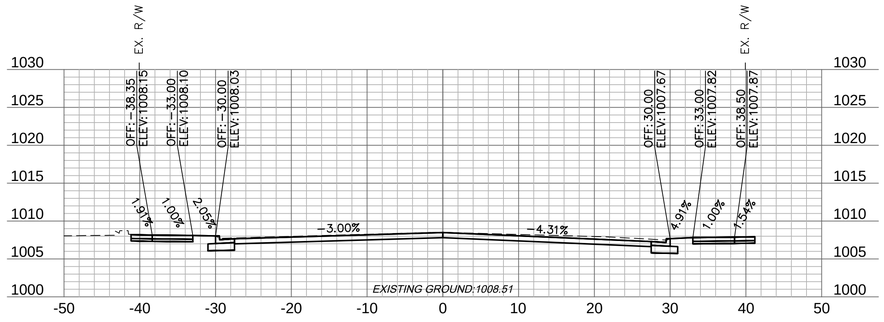

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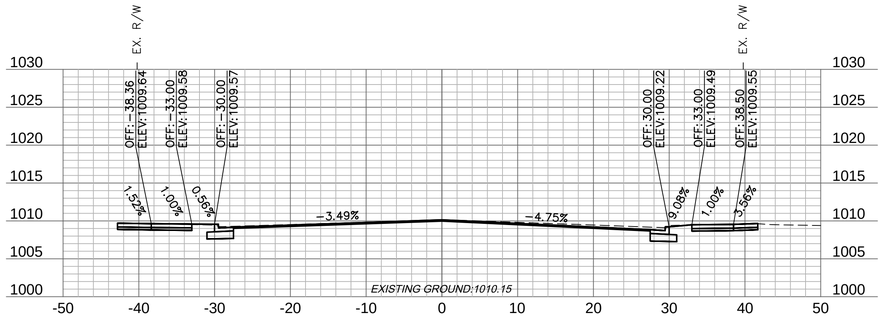

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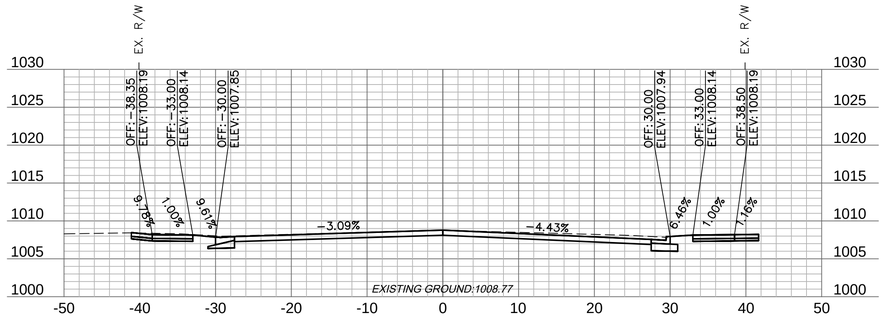

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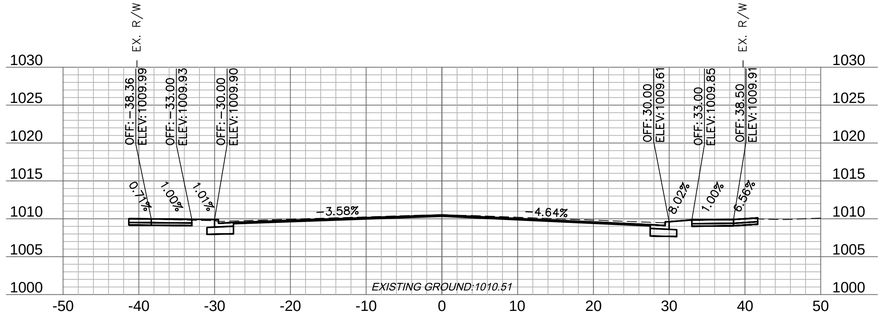

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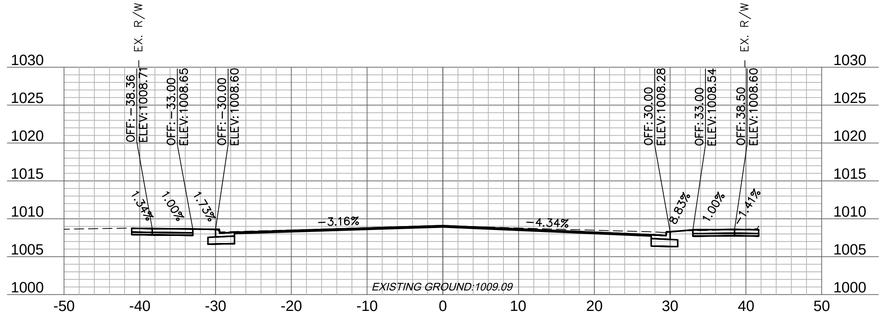

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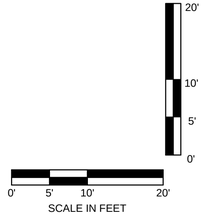

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NUMBER PE-2023037181
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2026-04-21

REVISIONS

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MAIN STREET ROADWAY CROSS SECTIONS
MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

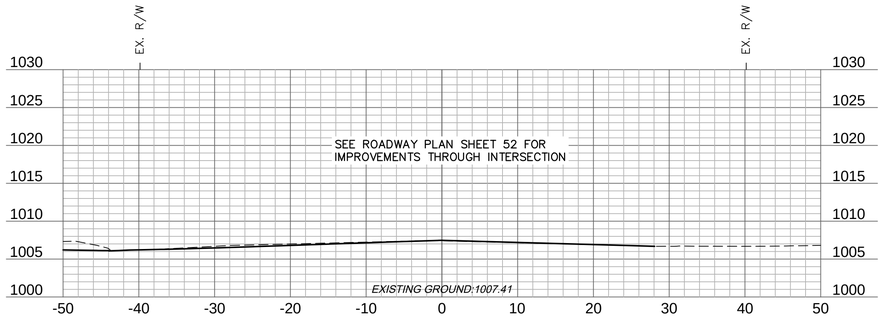
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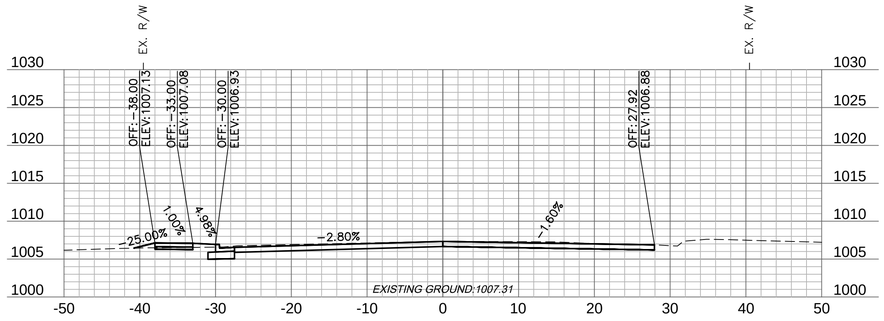
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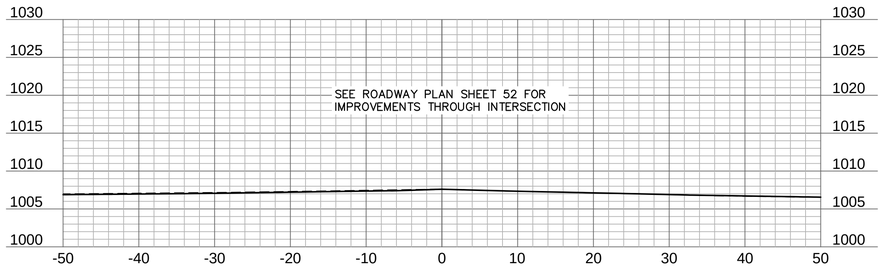
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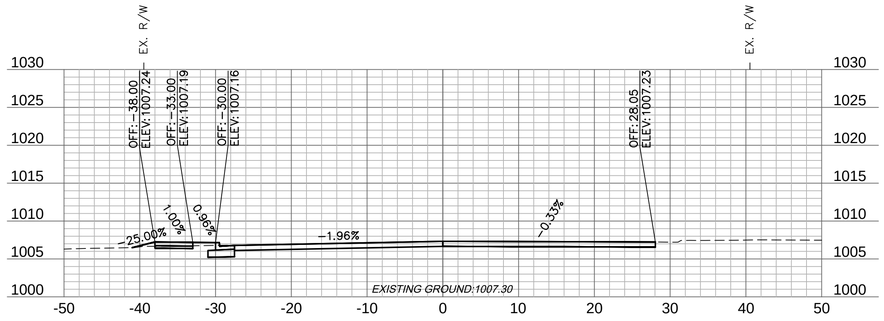

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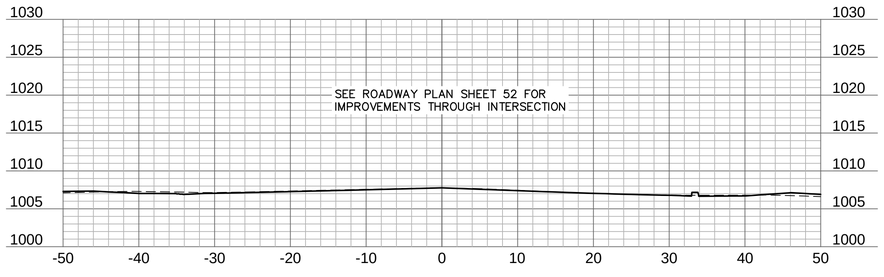

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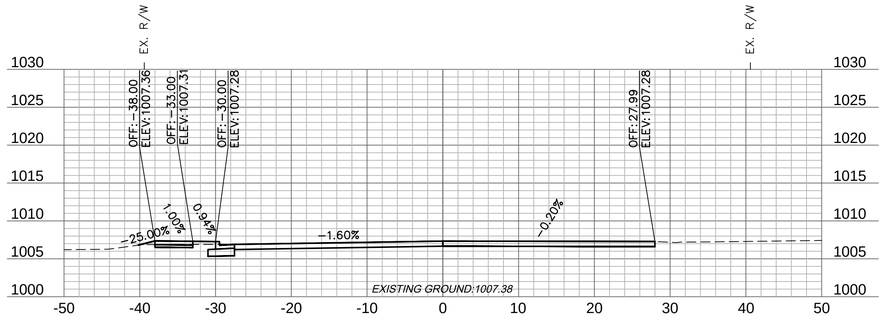

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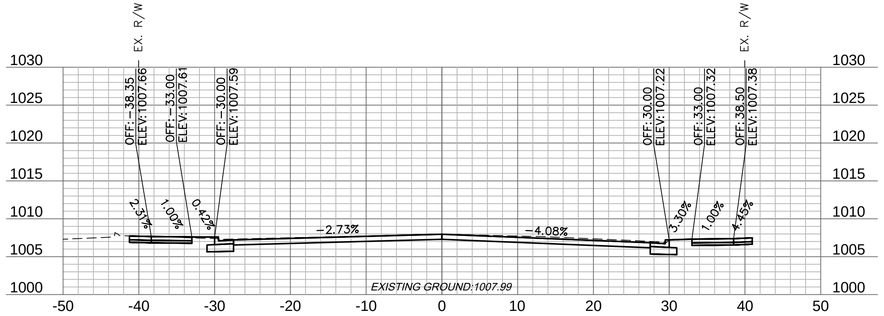

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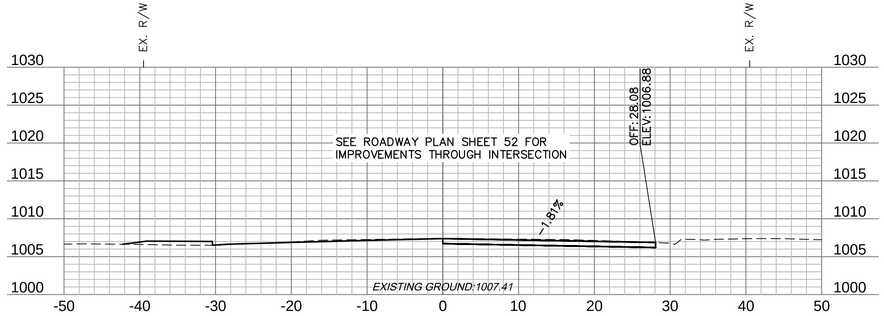

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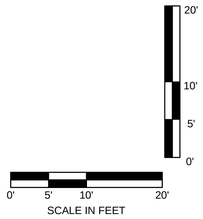

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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

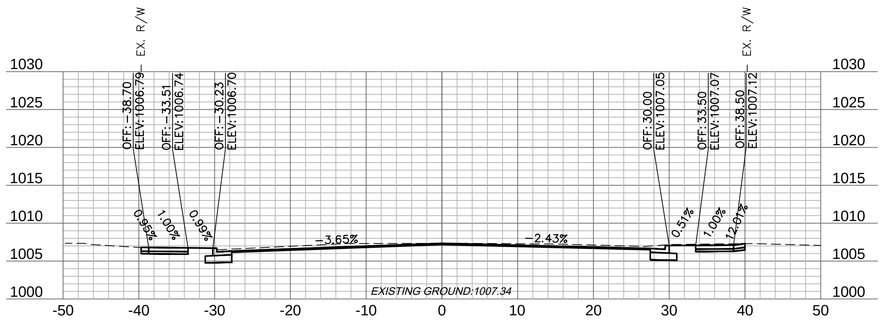
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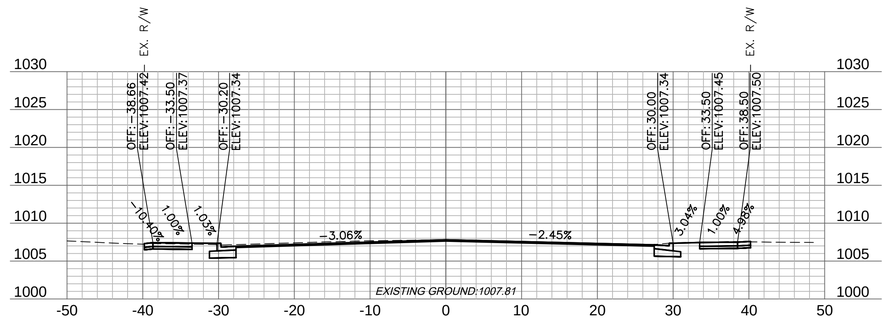
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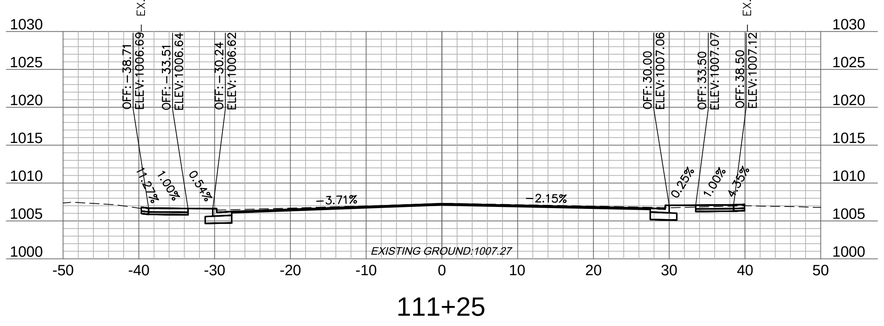
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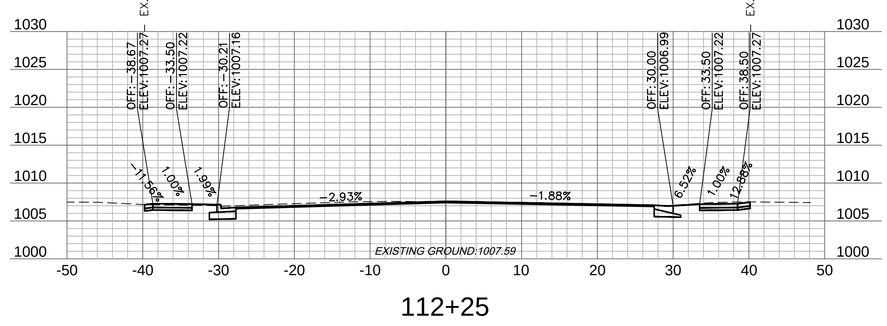

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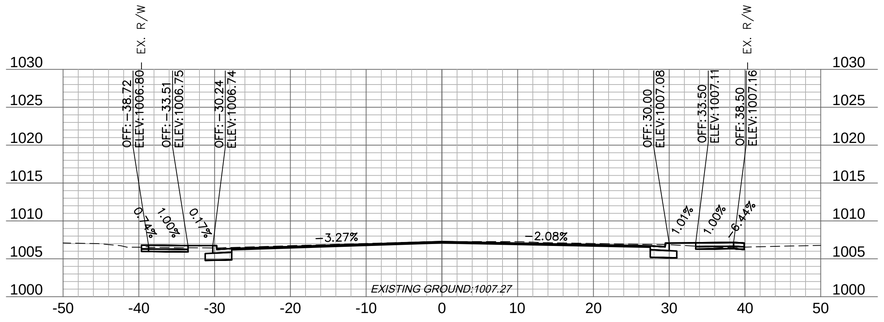

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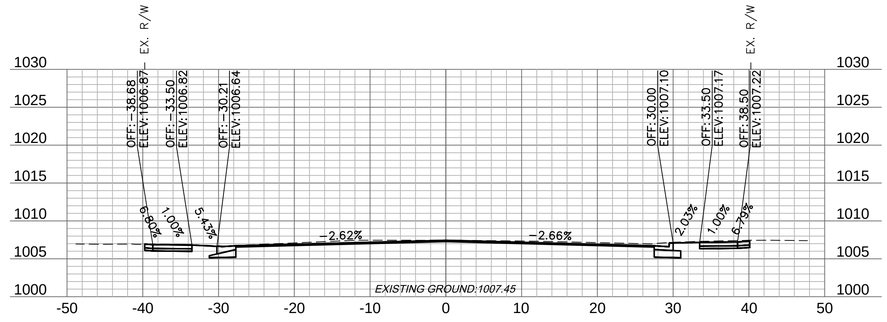

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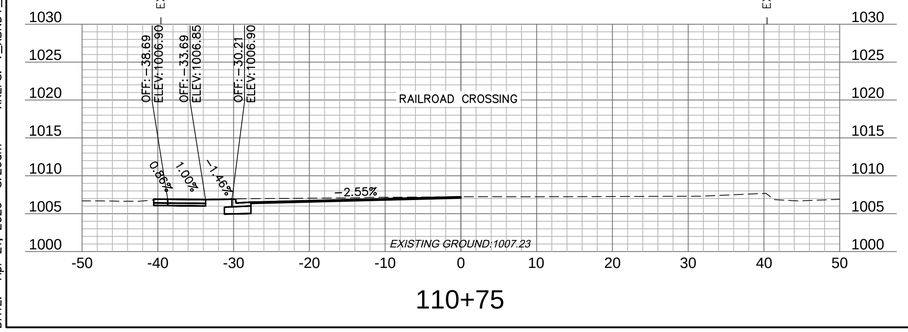

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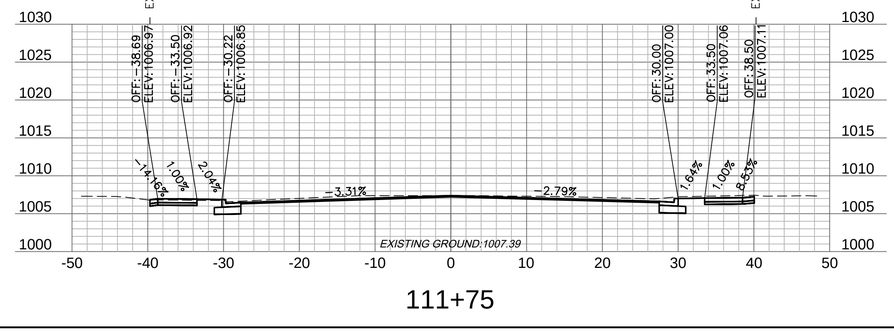

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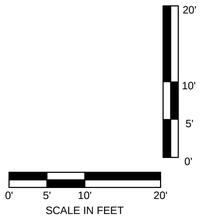

112+00




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8TH ST TO 15TH ST

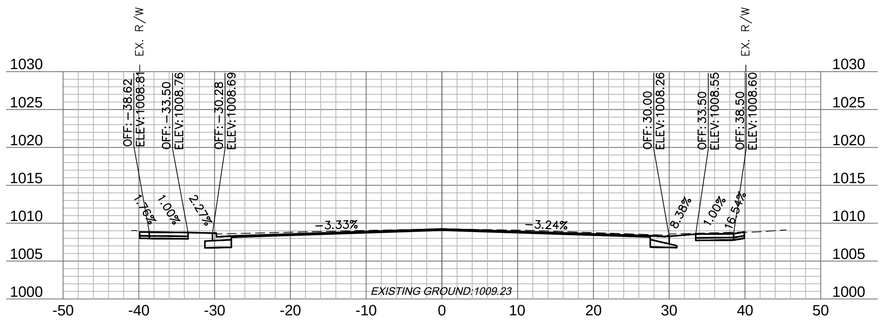
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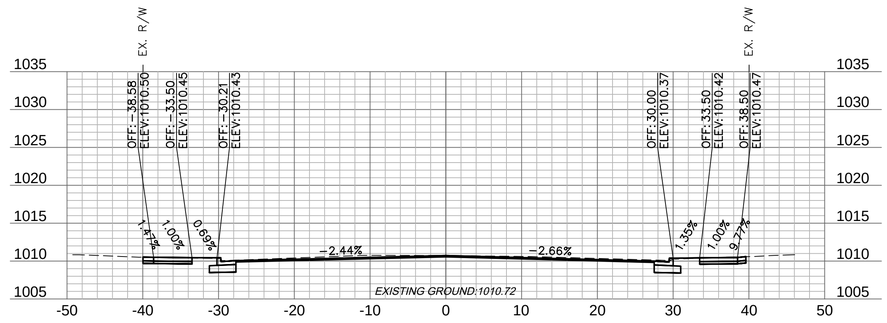
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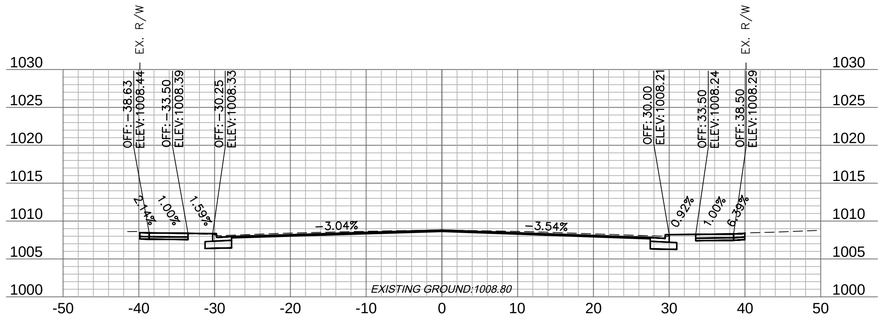
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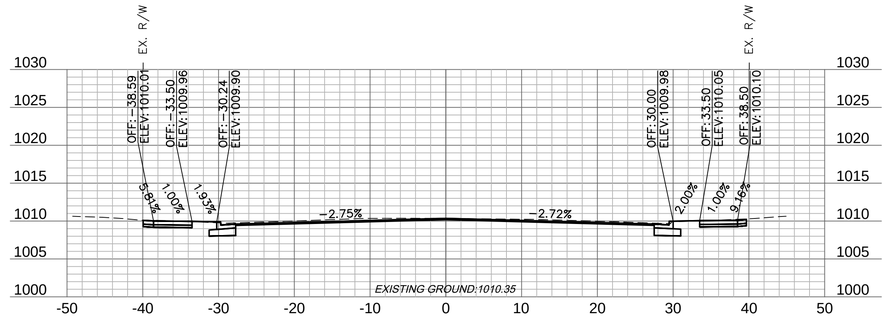

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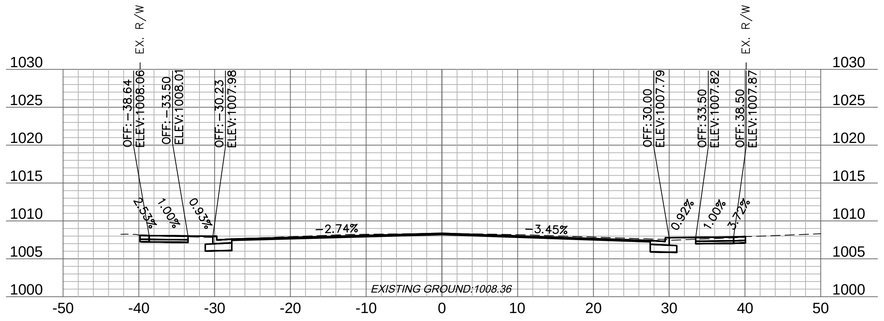

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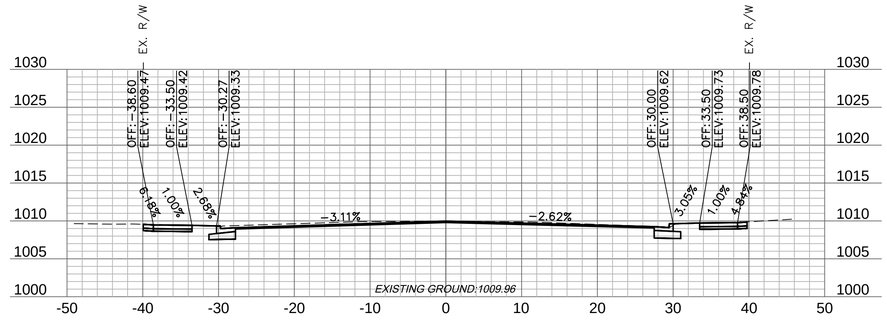

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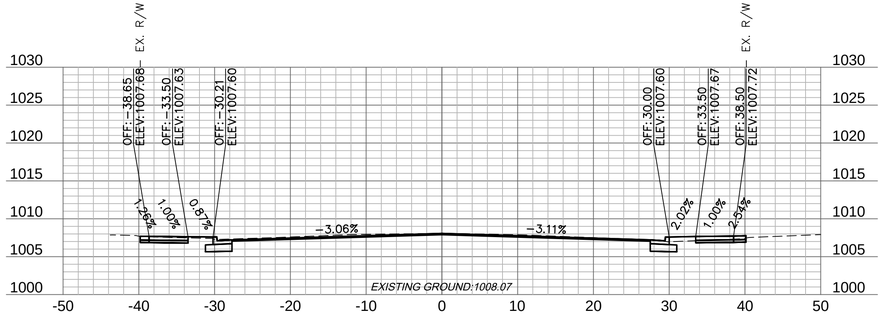

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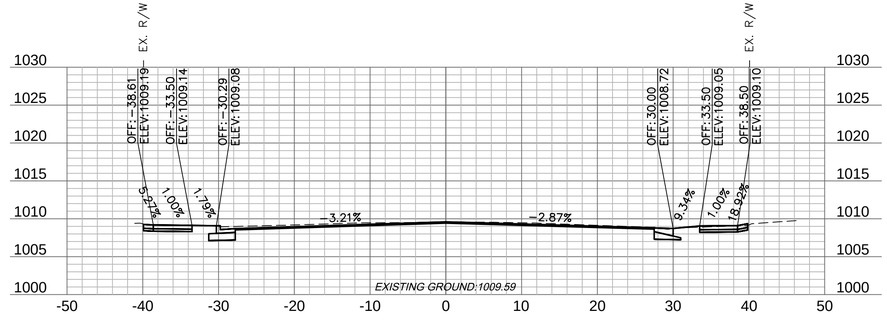

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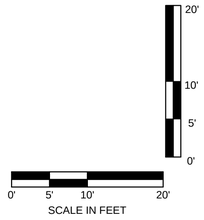

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MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

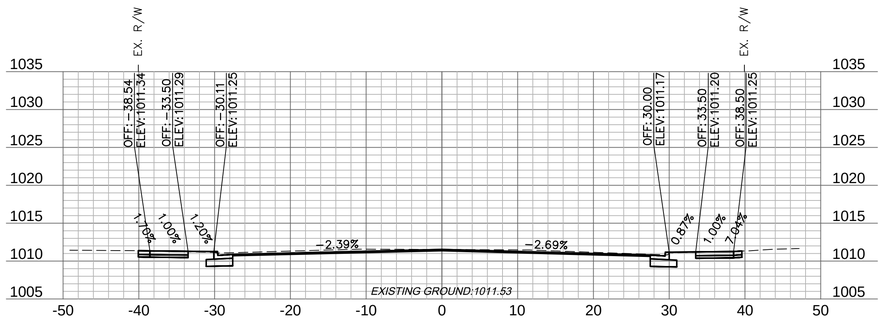
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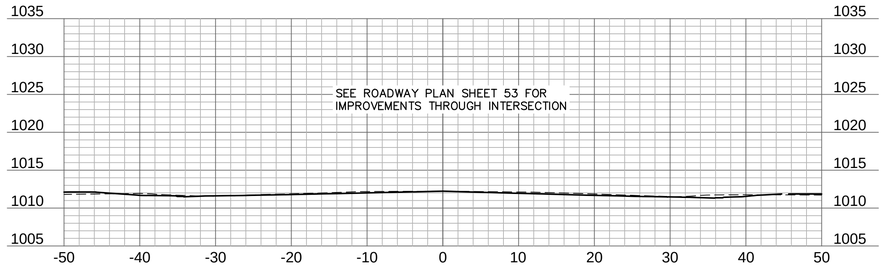
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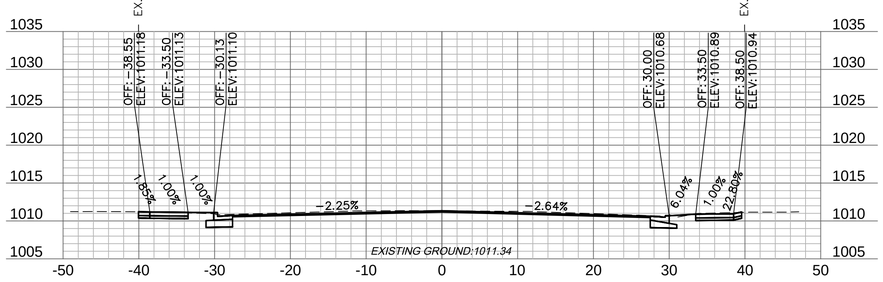
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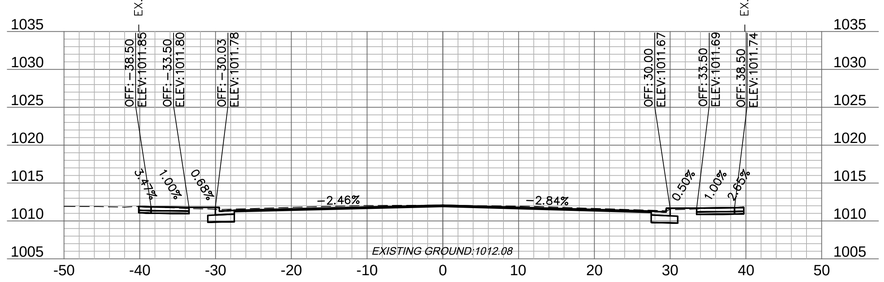

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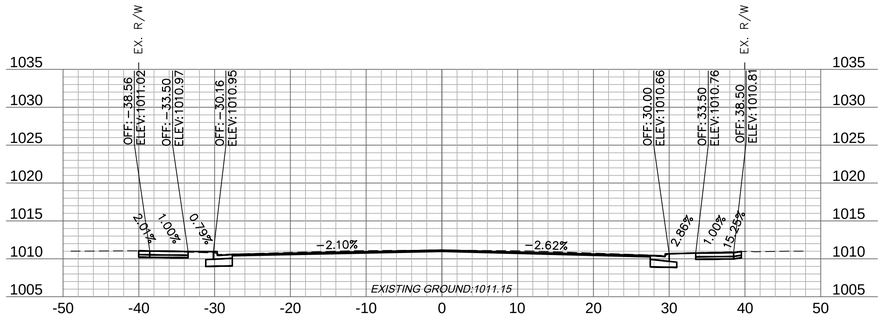

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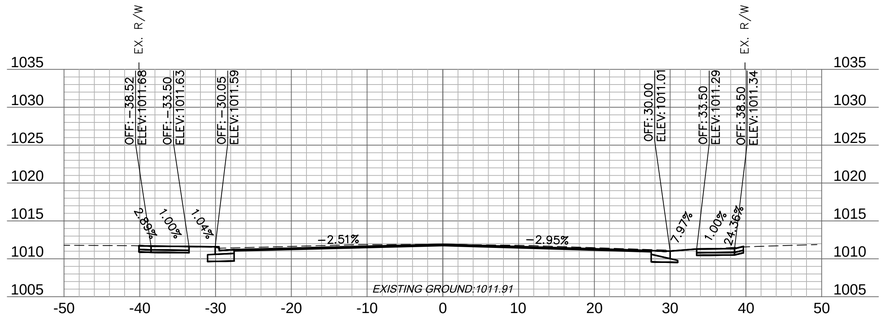

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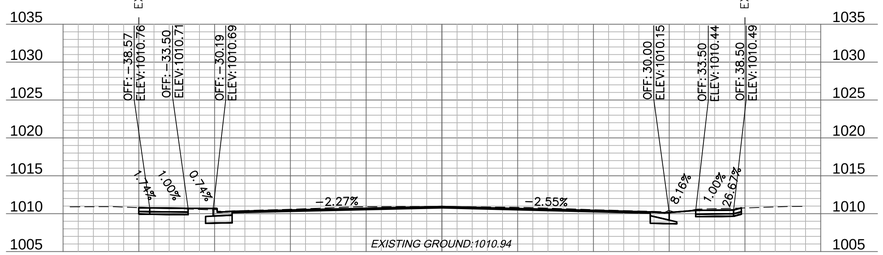

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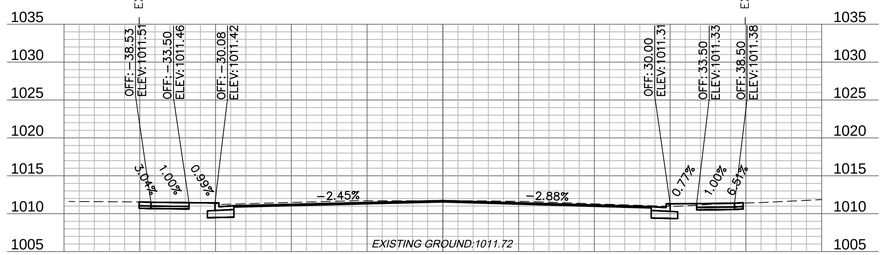

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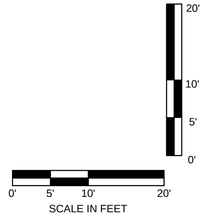

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MAIN STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

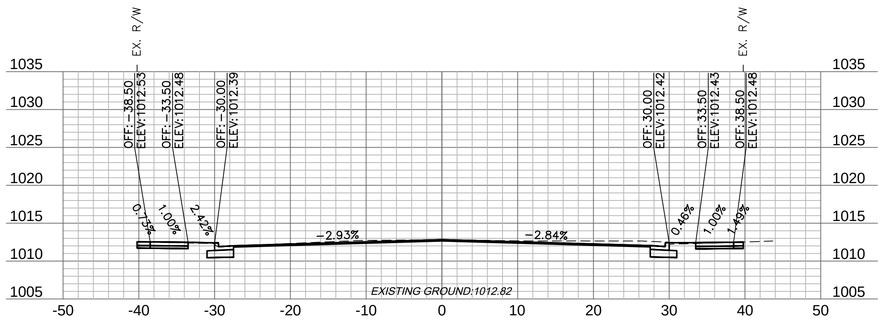
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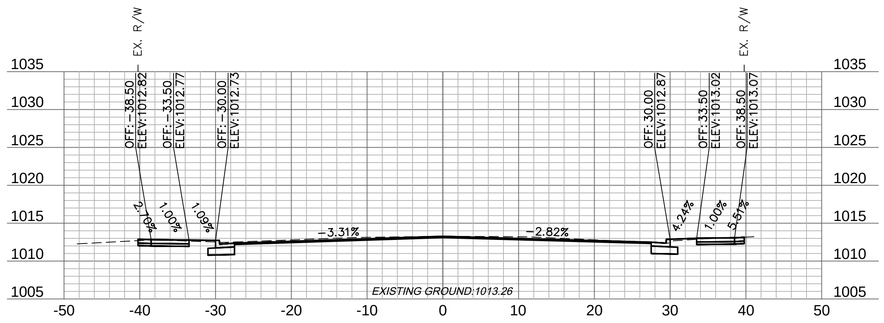
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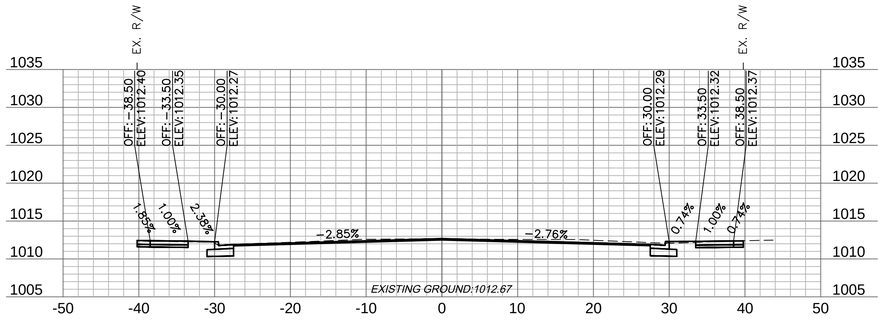
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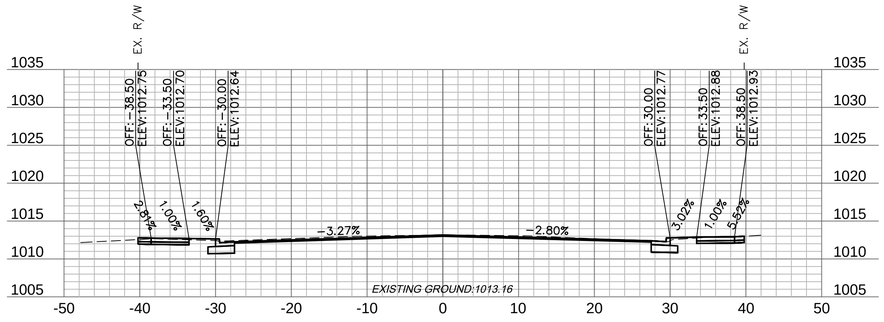

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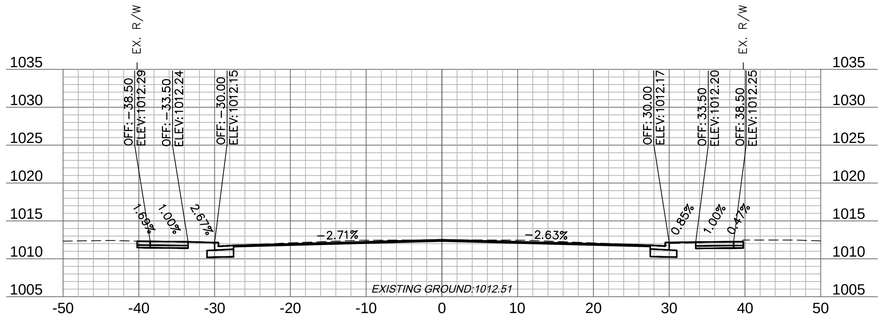

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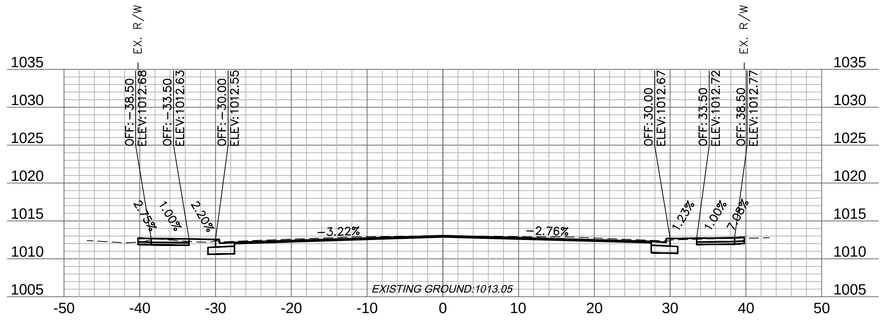

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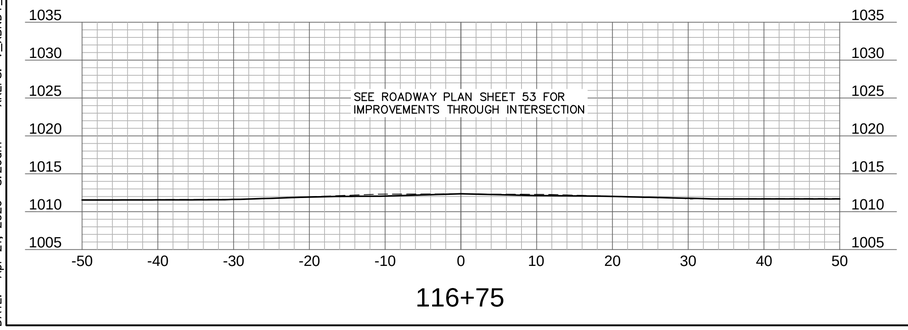

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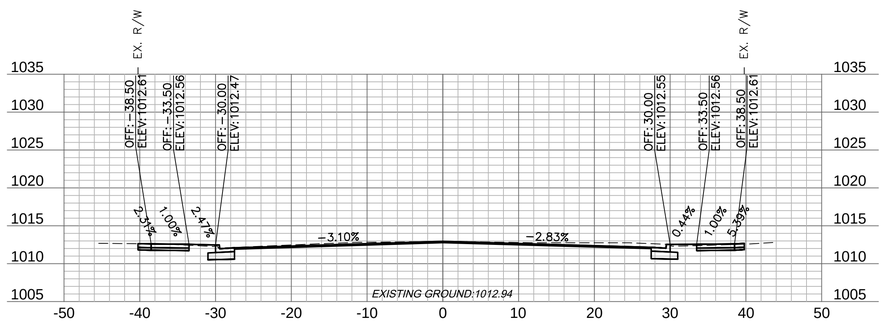

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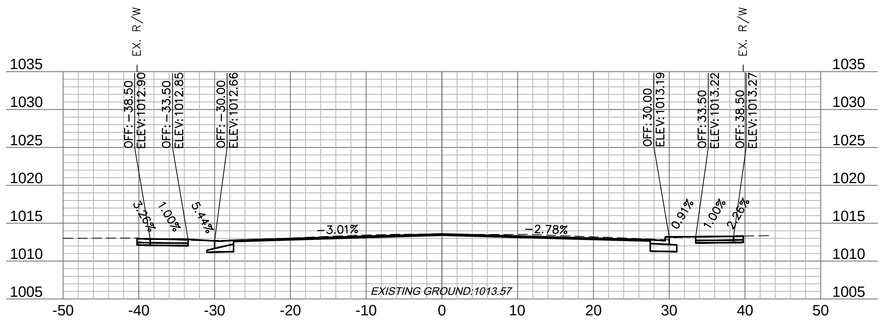
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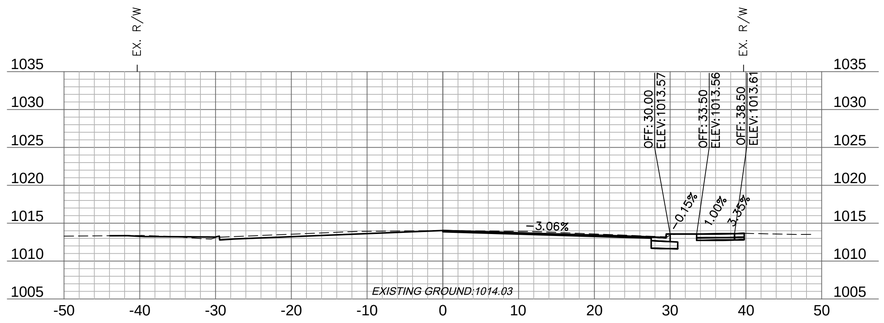
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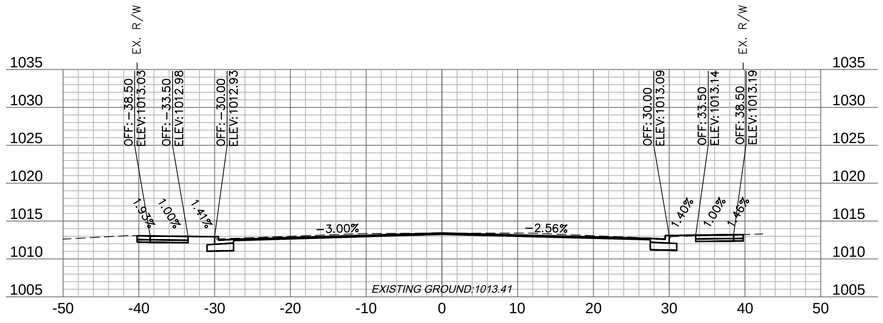
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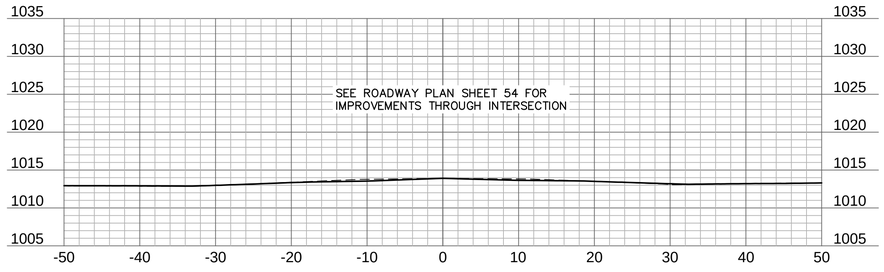

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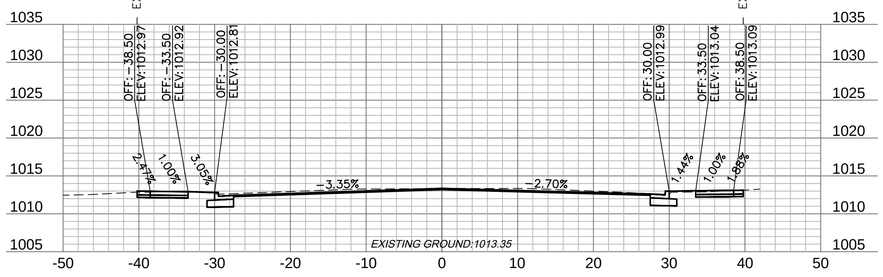

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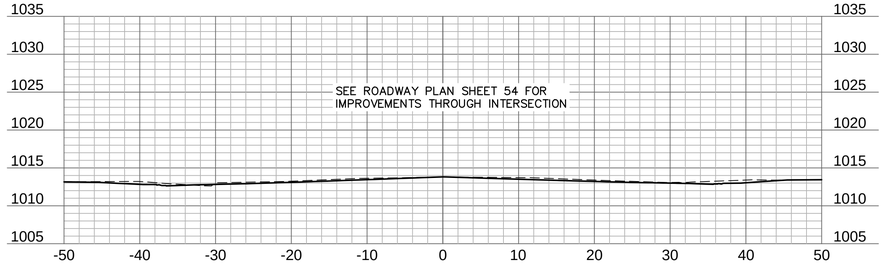

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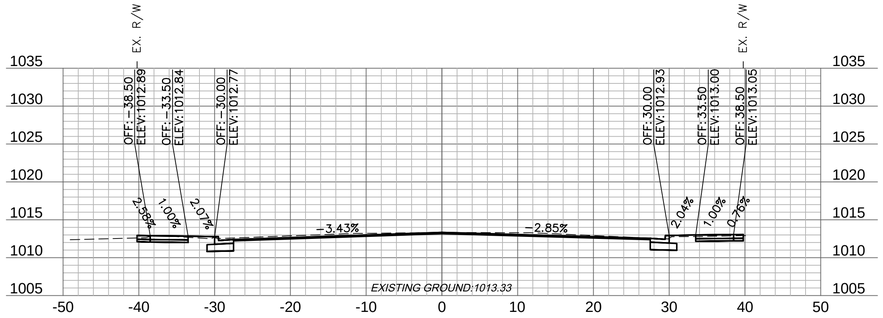

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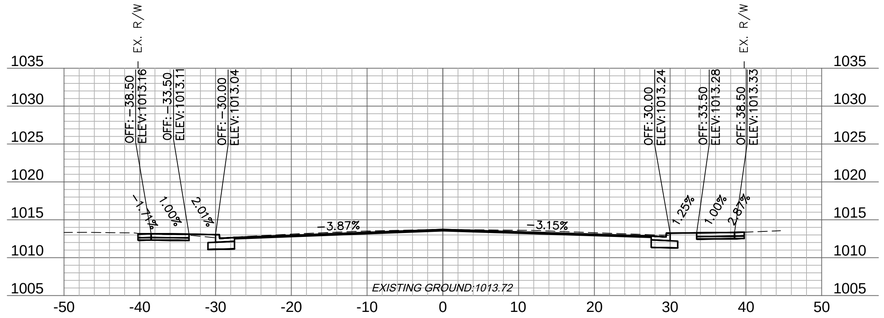

119+00




120+00




118+75




119+75

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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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MAIN STREET ROADWAY CROSS SECTIONS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

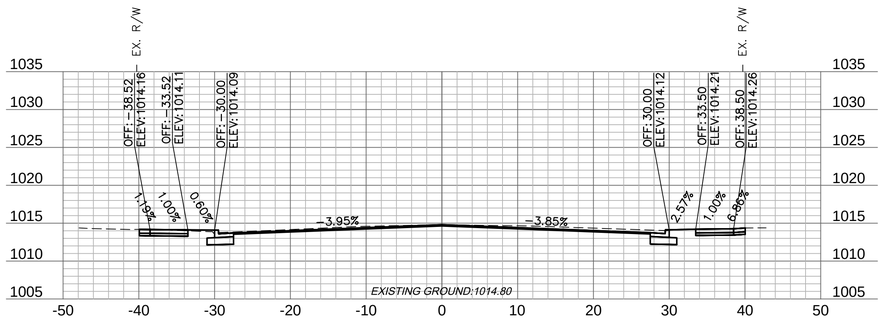
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2025

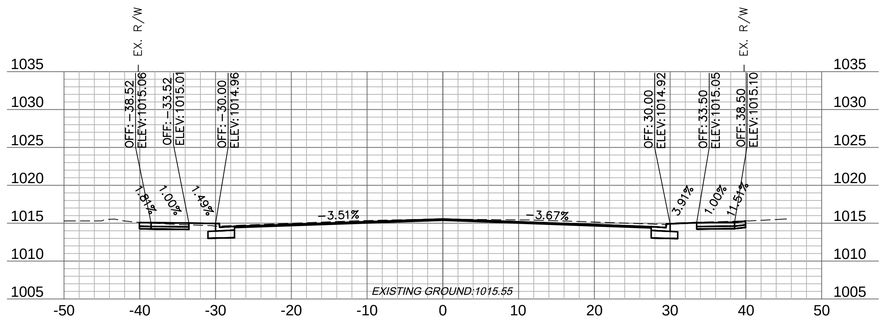
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checked by: MJM
approved by: JWP
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project no.: 023-00893
drawing no.: T_XSC01_02300893
date: 4.21.2026

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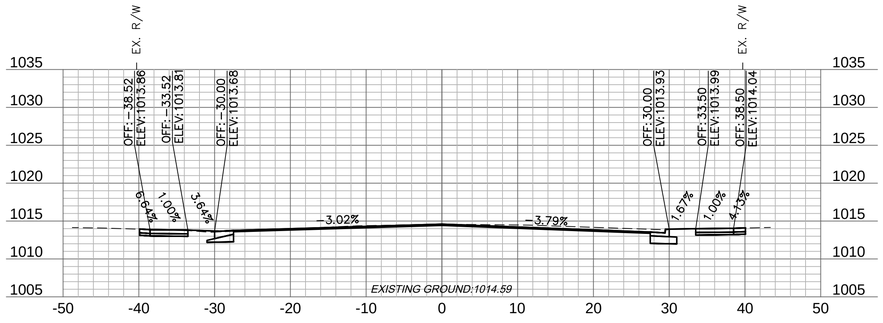
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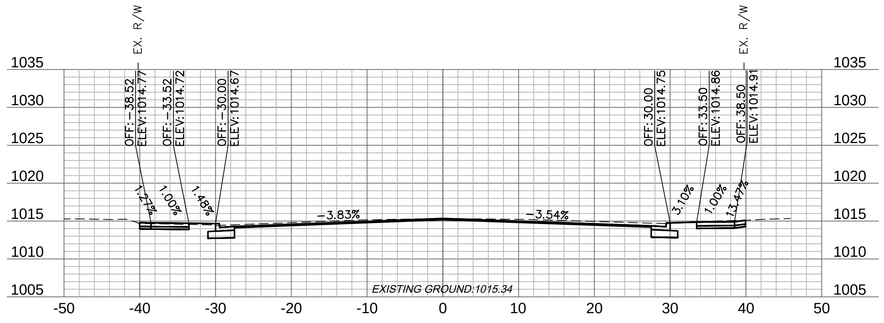

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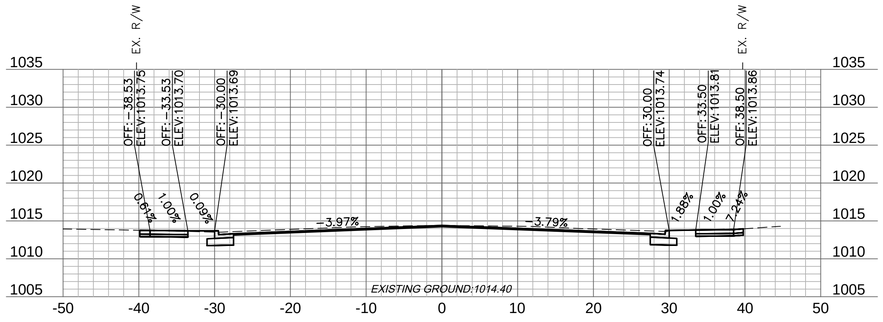

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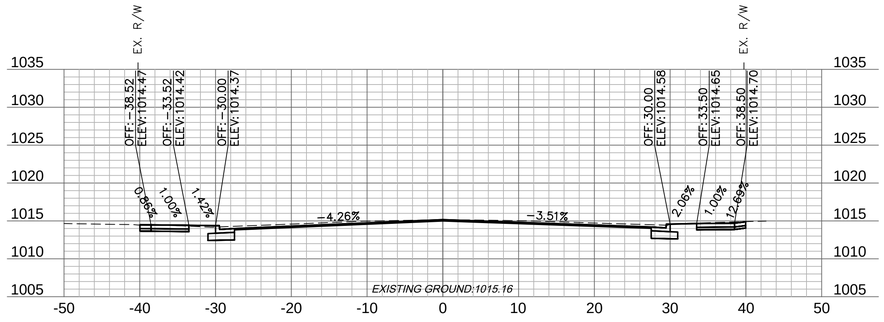

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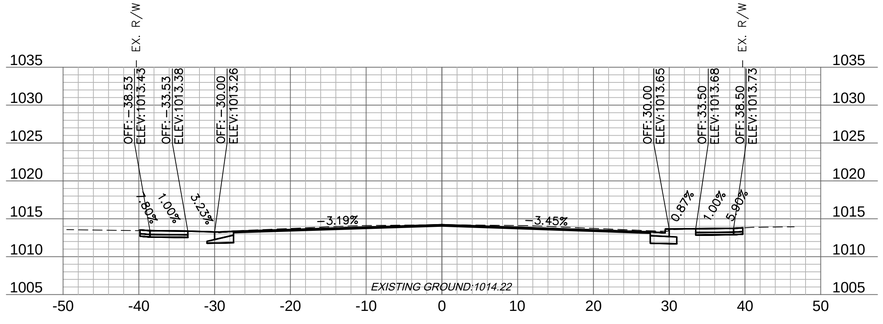

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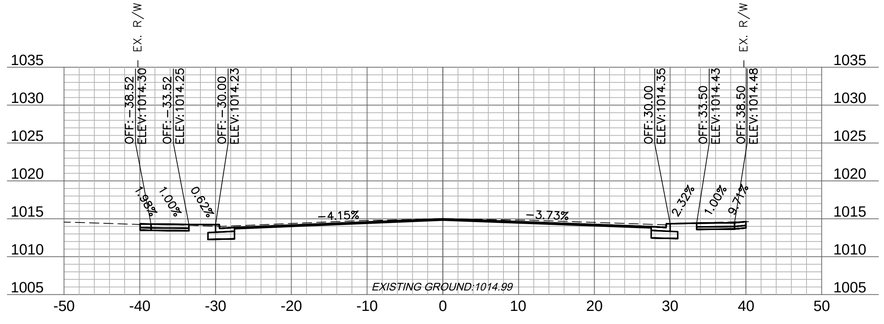

121+00




122+00




120+75




121+75

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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/21/2026

REVISIONS

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

MAIN STREET ROADWAY CROSS SECTIONS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

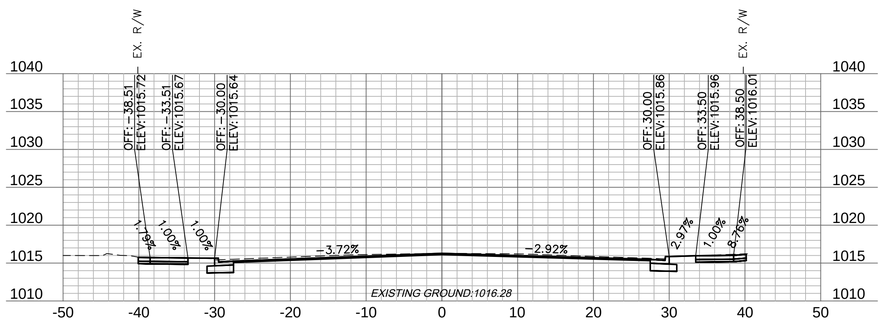
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JOPLIN, MO

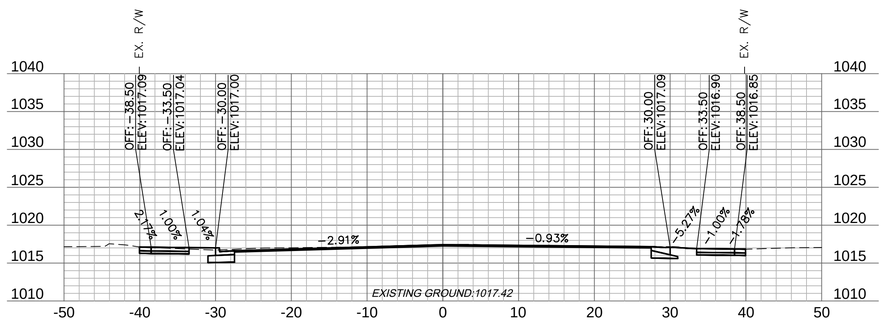
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project no.: 023-00893
drawing no.: T_XSC01_02300893
date: 4.21.2026

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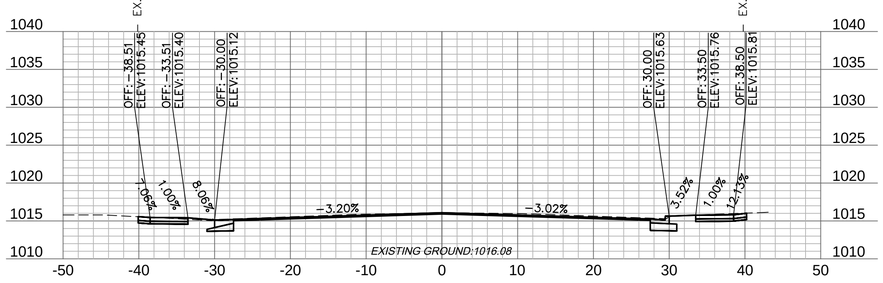
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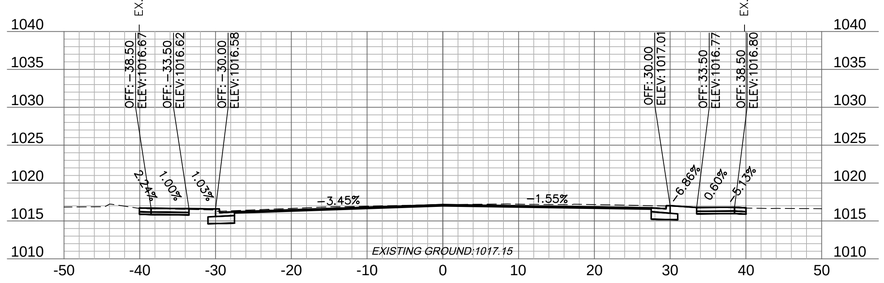

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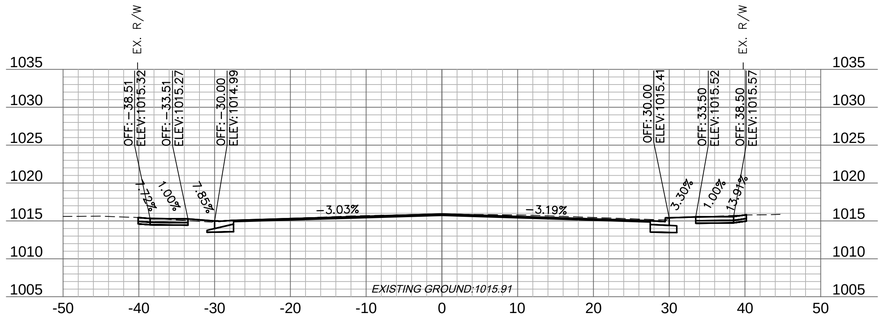

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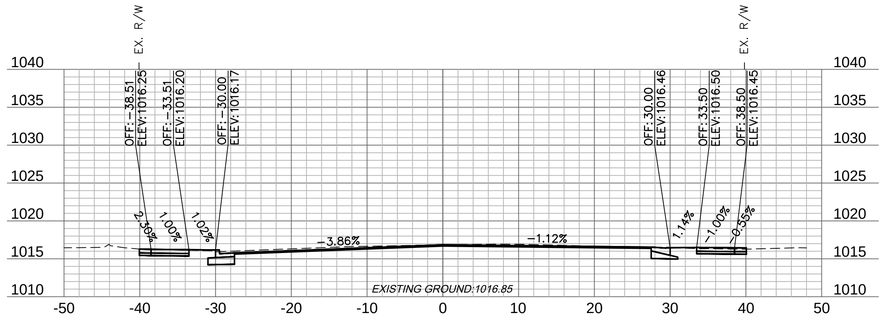

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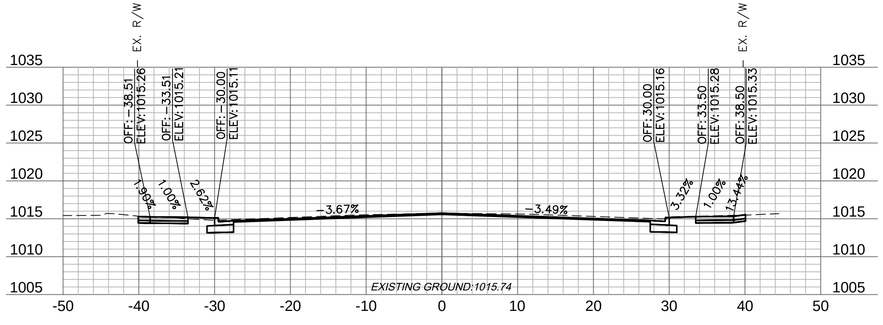

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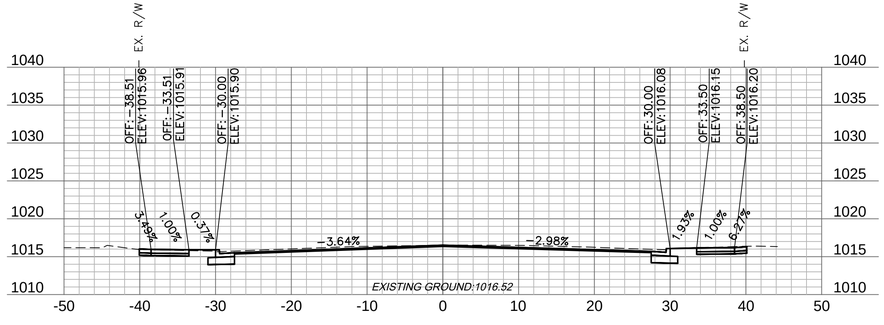

123+00




124+00




122+75




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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER

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|---|---|---|---|

REVISIONS

MAIN STREET ROADWAY CROSS SECTIONS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

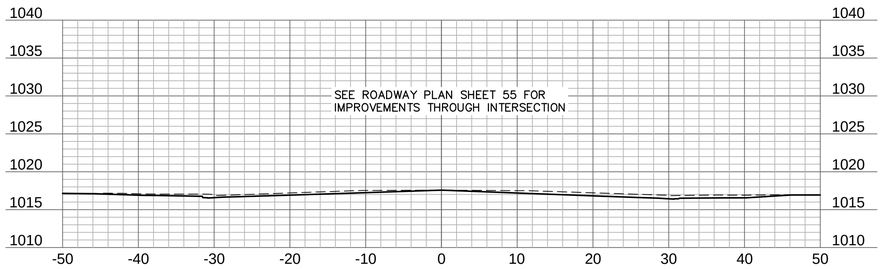
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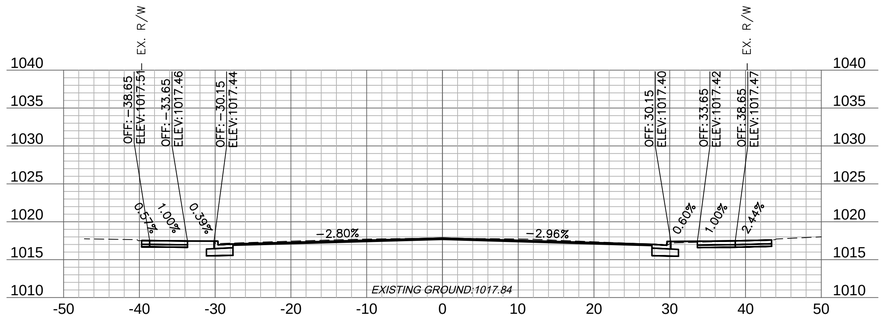
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project no.: 023-00893
drawing no.: T_XSC01_02300893
date: 4.21.2026

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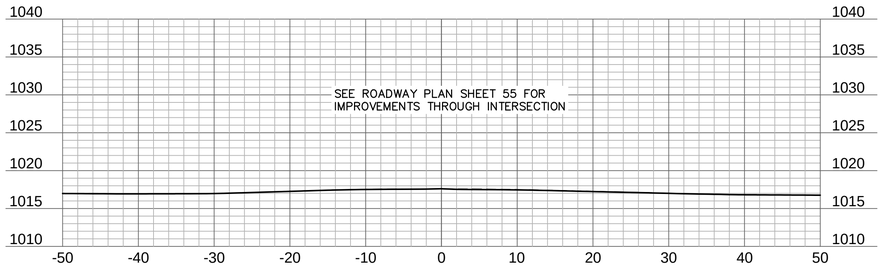
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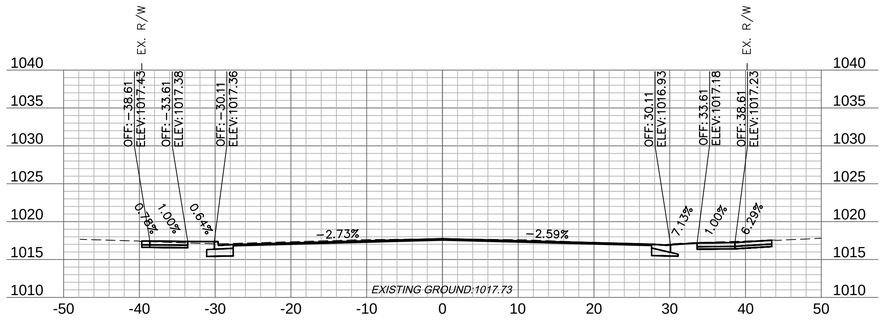

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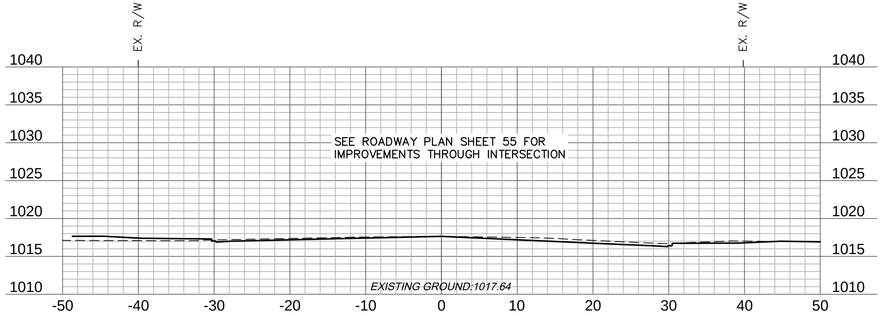

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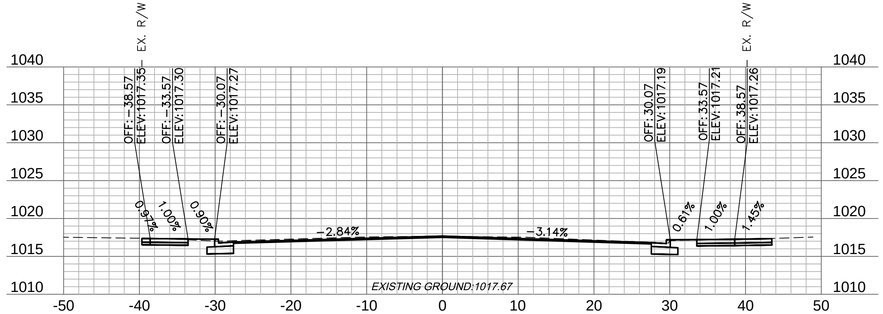

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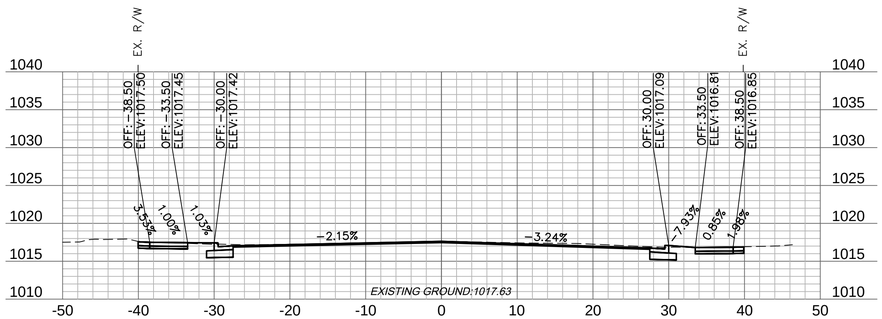

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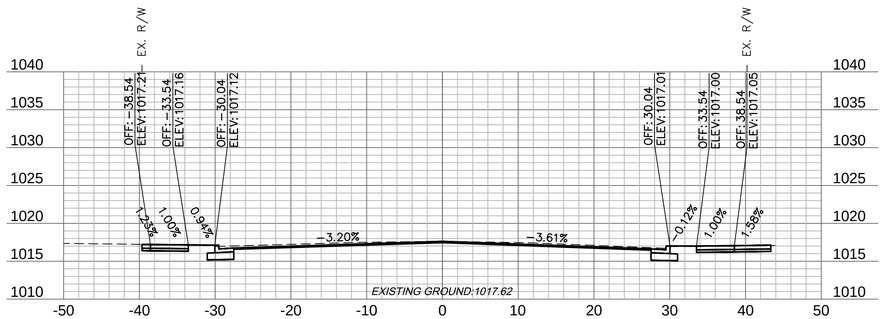

125+00




126+00




124+75




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|---|---|---|---|
| | | REVISIONS | |

MAIN STREET ROADWAY CROSS SECTIONS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

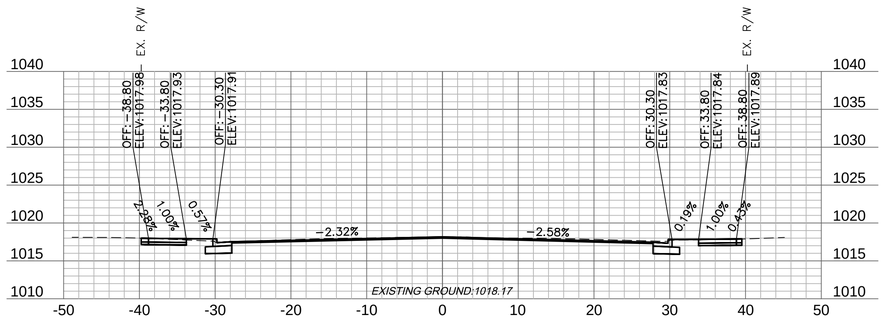
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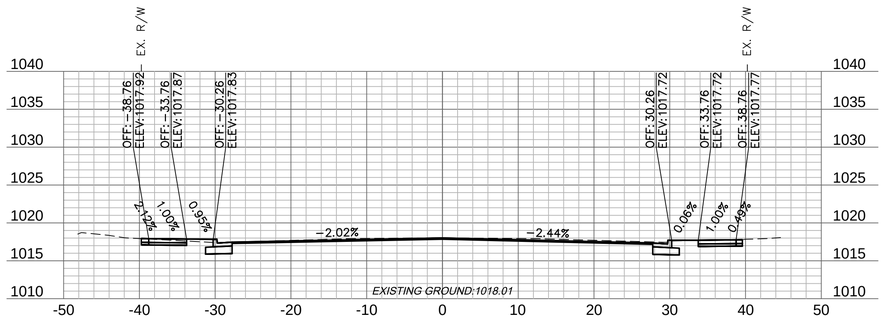
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date: 4.21.2026

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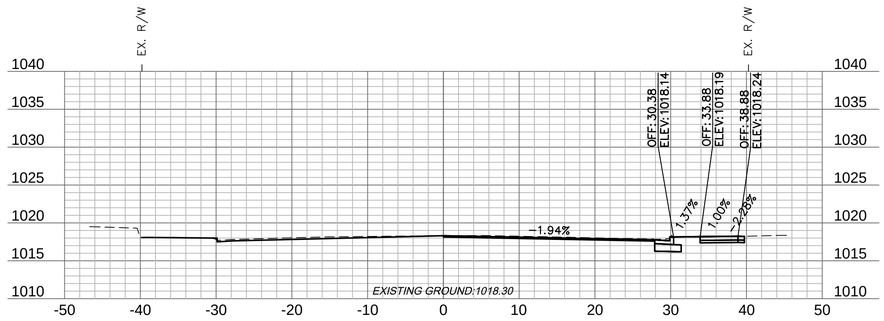
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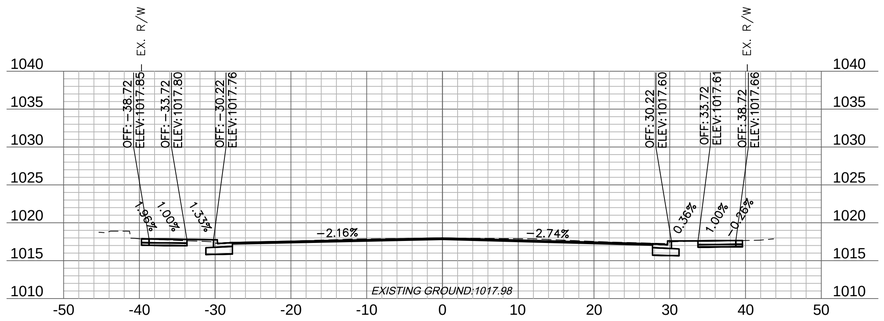

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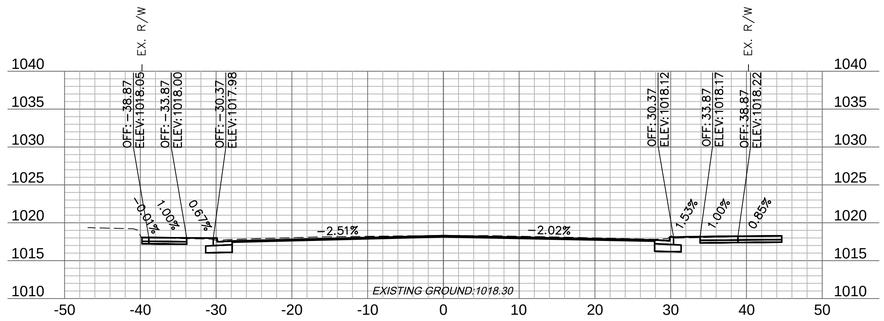

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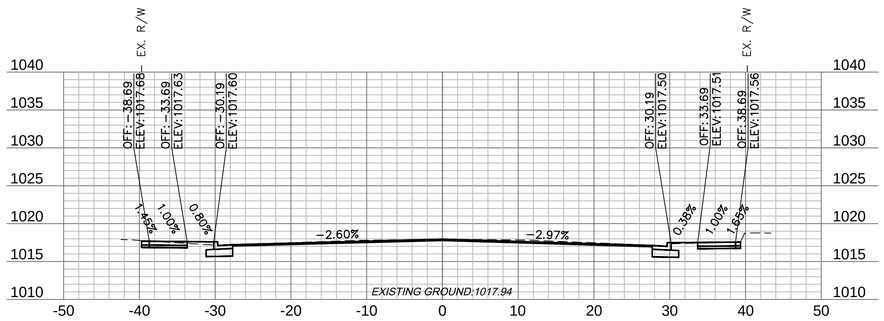

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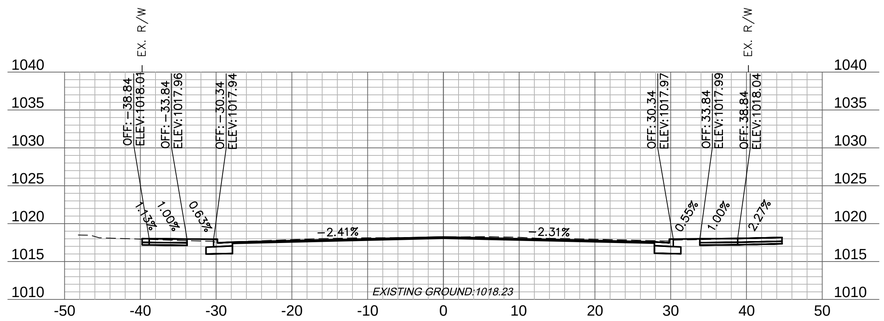

127+00




128+00




126+75




127+75

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STATE OF MISSOURI
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REVISIONS

MAIN STREET ROADWAY CROSS SECTIONS

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

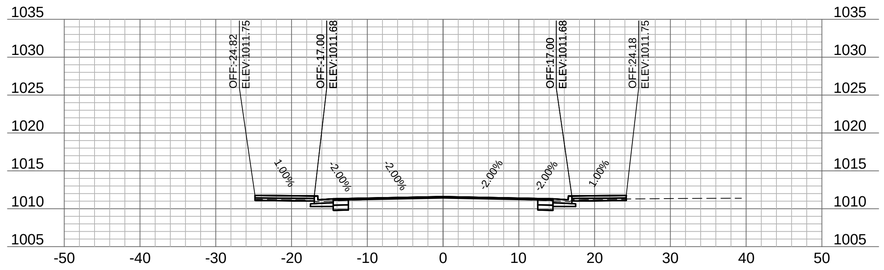
JOPLIN, MO

2025

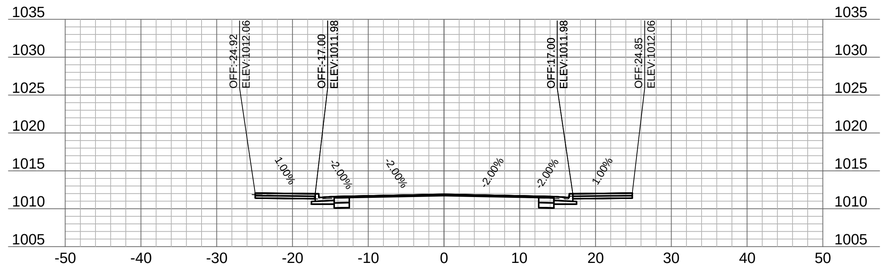
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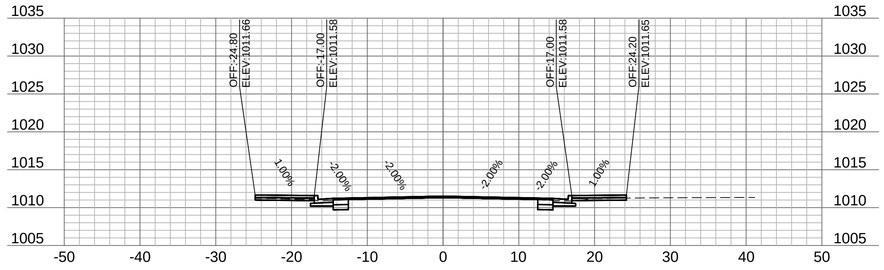
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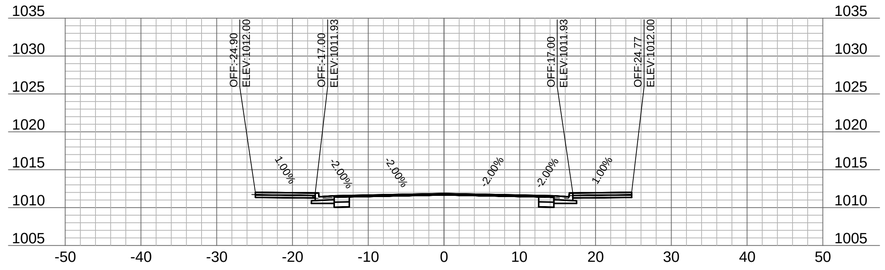

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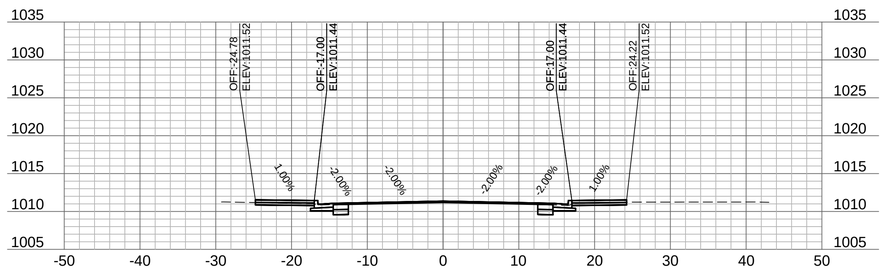

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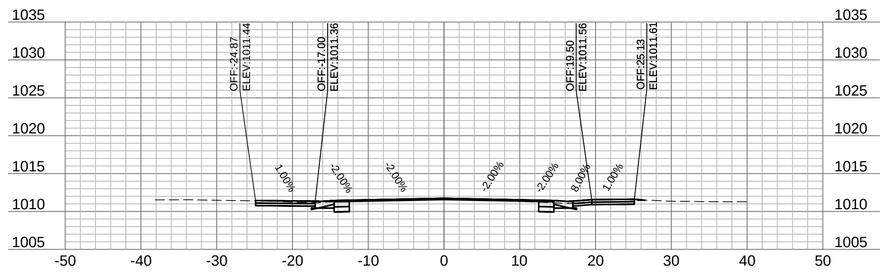

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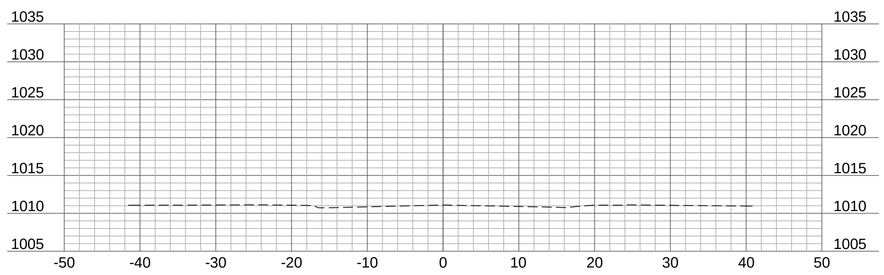

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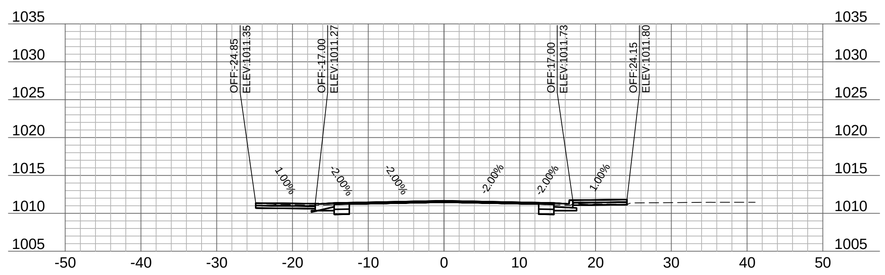

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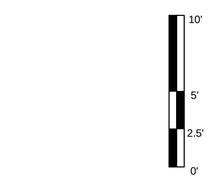

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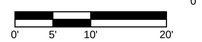


300+50




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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

BID ALTERNATIVE 1 - 9TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

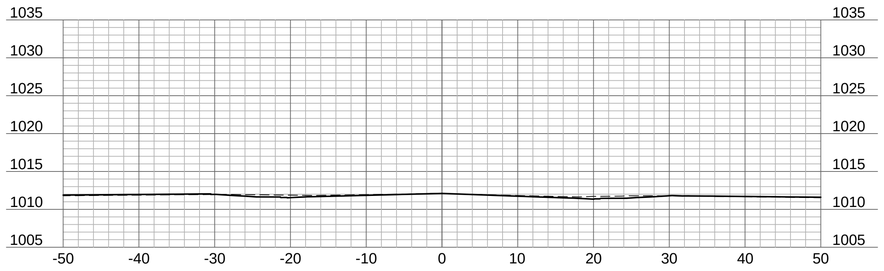
JOPLIN, MO

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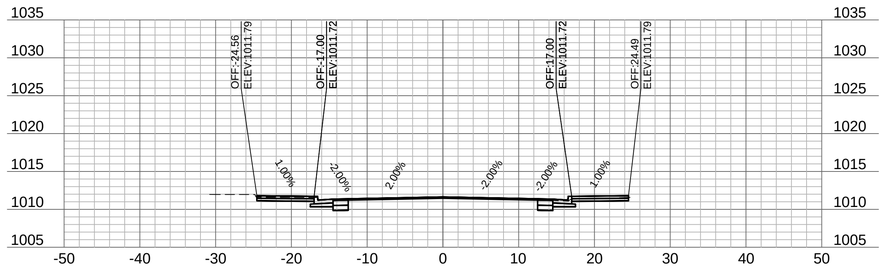
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| drawing no.: | T_XSC02_02300893 |
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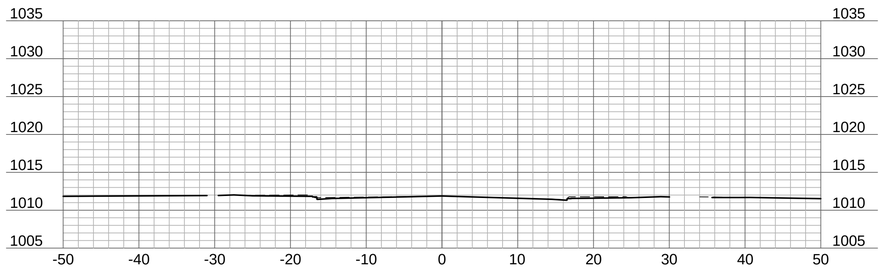
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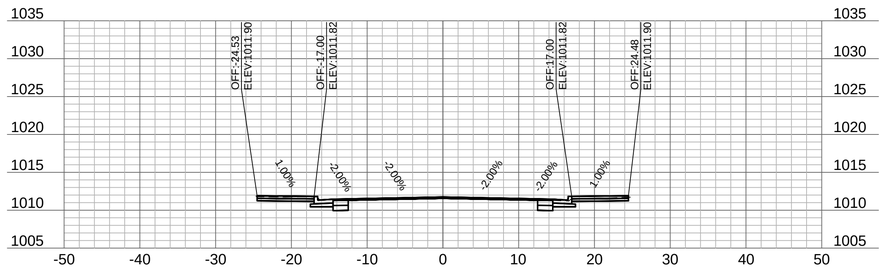

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304+75

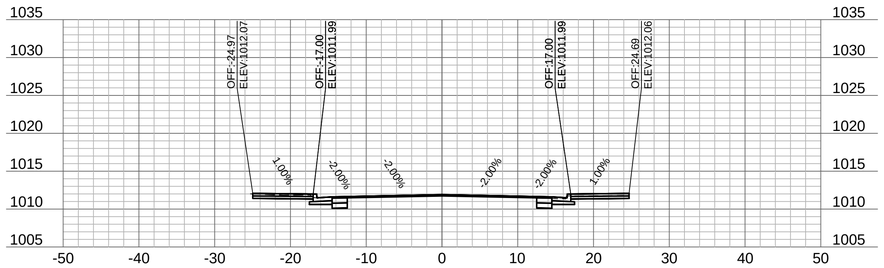


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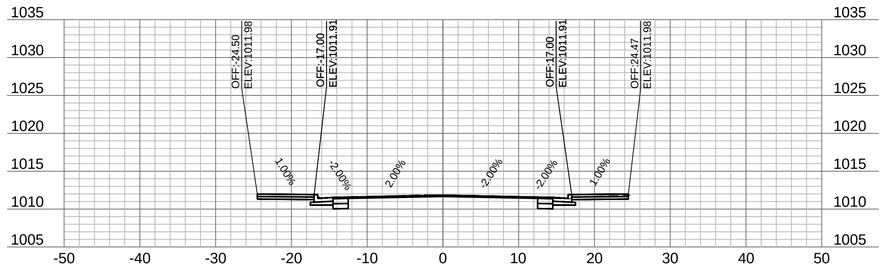

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SEE ROADWAY PLAN SHEET 51 FOR IMPROVEMENTS THROUGH INTERSECTION

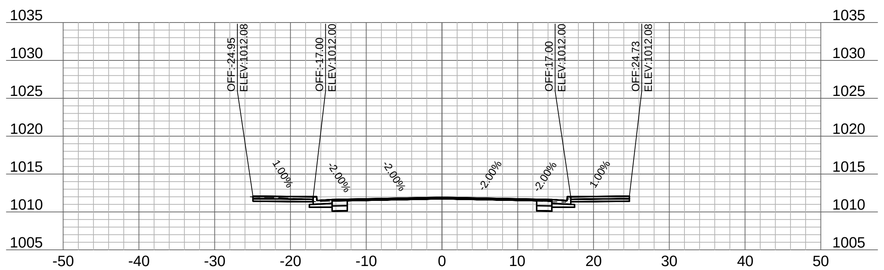



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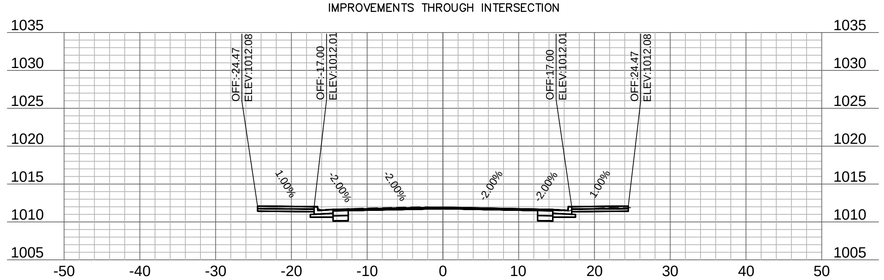
SEE ROADWAY PLAN SHEET 51 FOR IMPROVEMENTS THROUGH INTERSECTION



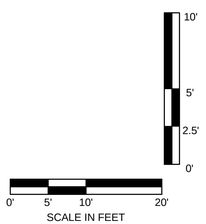

304+25




302+50




304+00




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STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

BID ALTERNATIVE 1 - 9TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

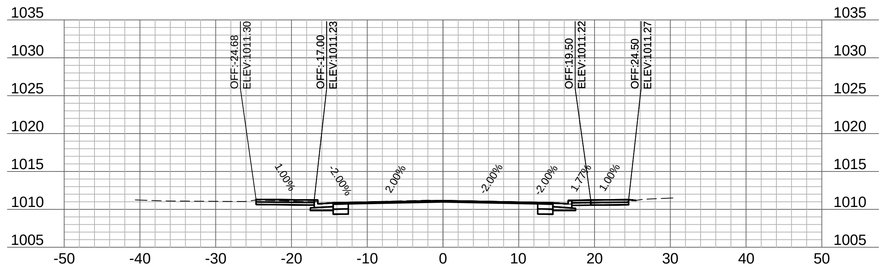
JOPLIN, MO

2025

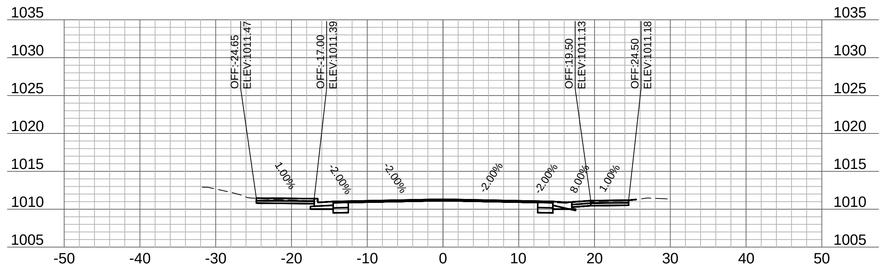
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| drawn by: | CTK/MJM |
| checked by: | MJM |
| approved by: | JWP |
| QA/QC by: | JWP |
| project no.: | 023-00893 |
| drawing no.: | T_XSC02_02300893 |
| date: | 4.20.2026 |

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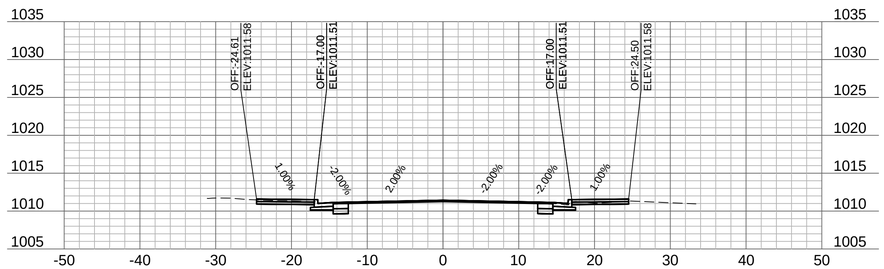
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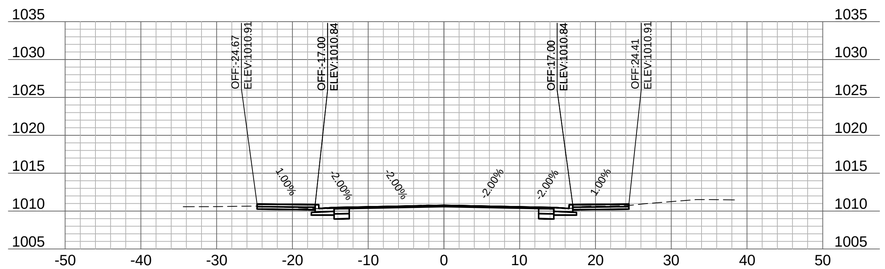

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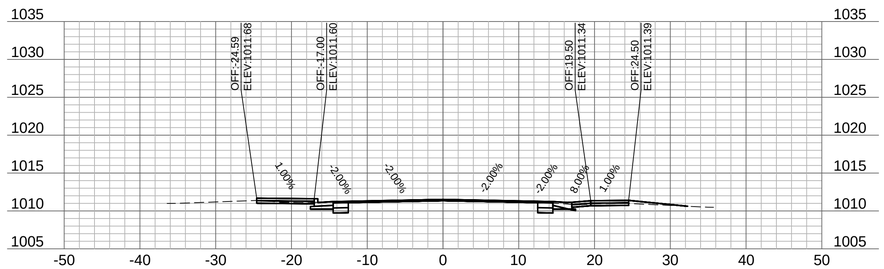

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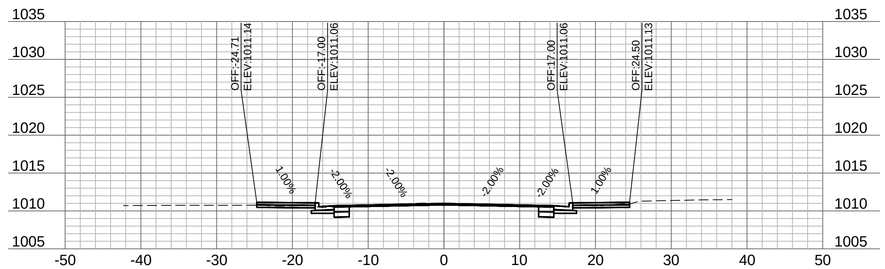

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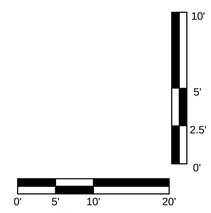

306+25




305+00




306+00




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4/27/2026
PROFESSIONAL ENGINEER

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REVISIONS

BID ALTERNATIVE 1 - 9TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

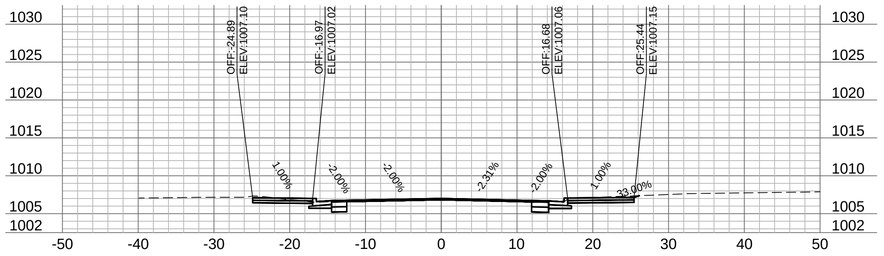
JOPLIN, MO

2025

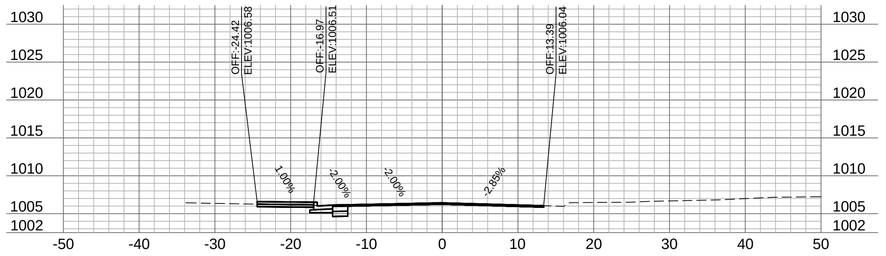
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checked by: MJM
approved by: JWP
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drawing no.: T_XSC02_02300893
date: 4.20.2026

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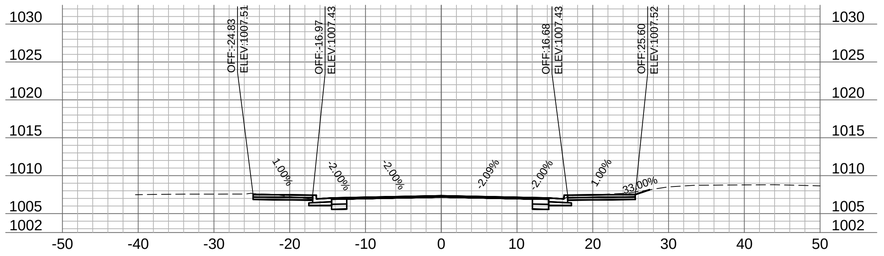
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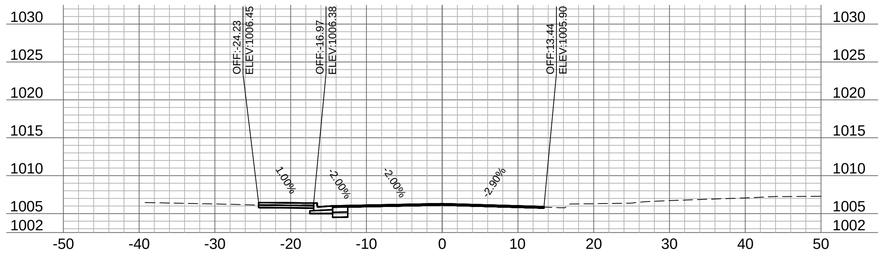

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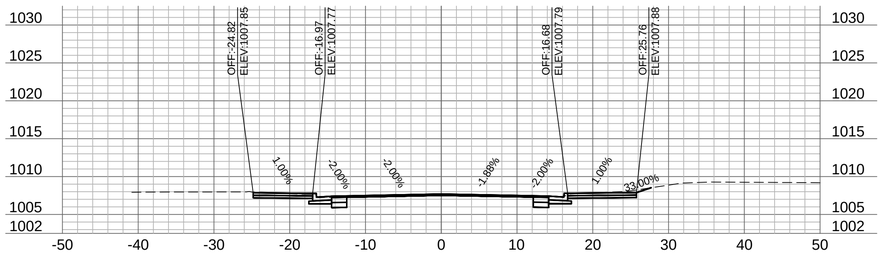

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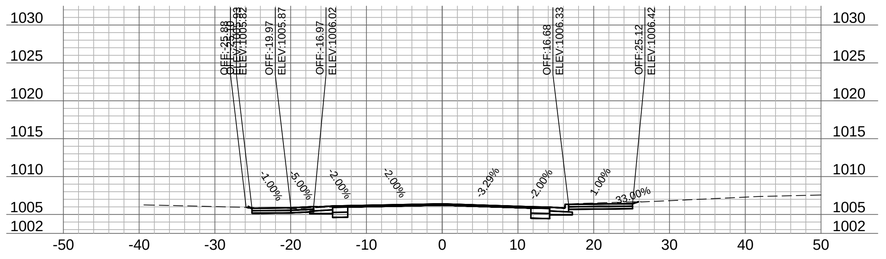

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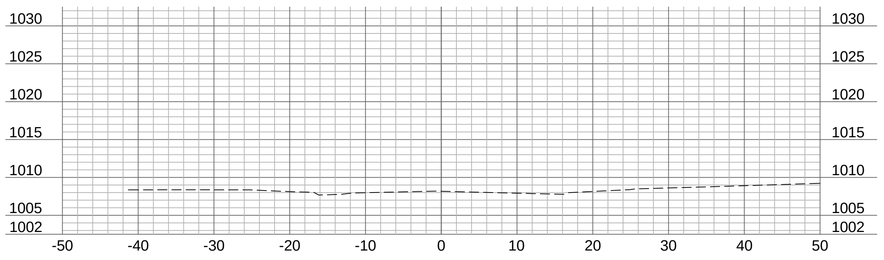

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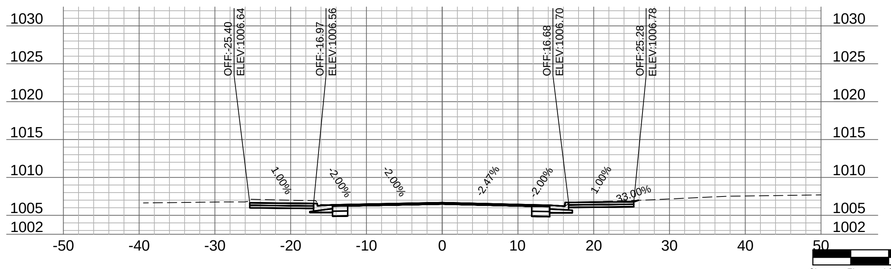

400+75




401+75



400+50




401+50

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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

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|---|---|---|---|

REVISIONS

BID ALTERNATIVE 2 - 10TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

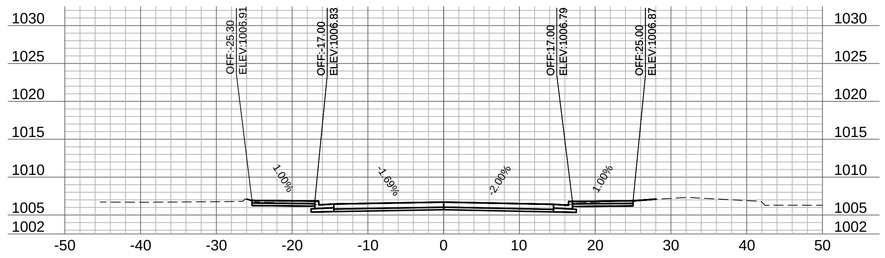
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2025

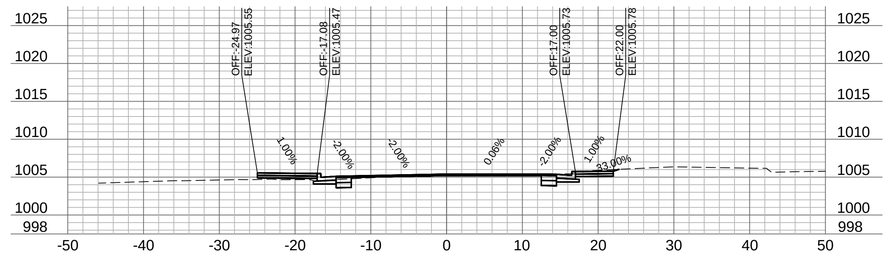
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| checked by: | MJM |
| approved by: | JWP |
| QA/QC by: | JWP |
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| drawing no.: | T_XSC02_02300893 |
| date: | 4.20.2026 |

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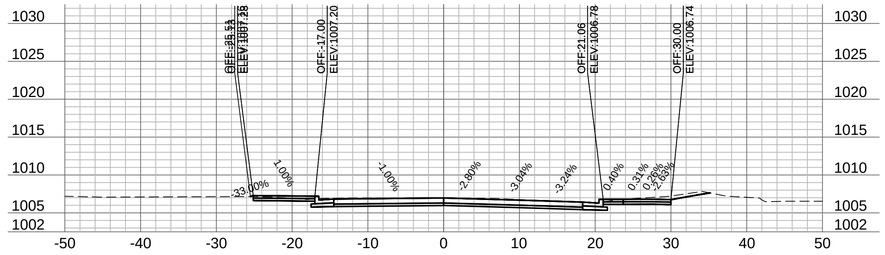
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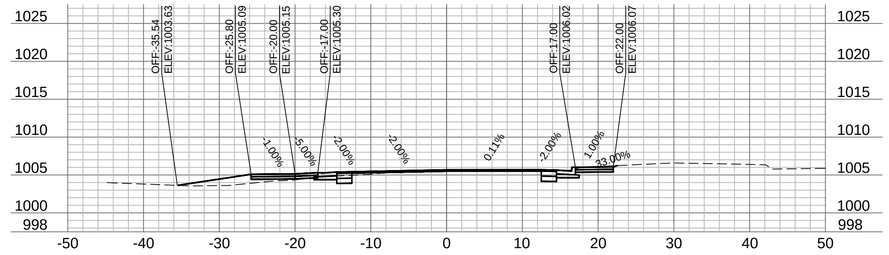

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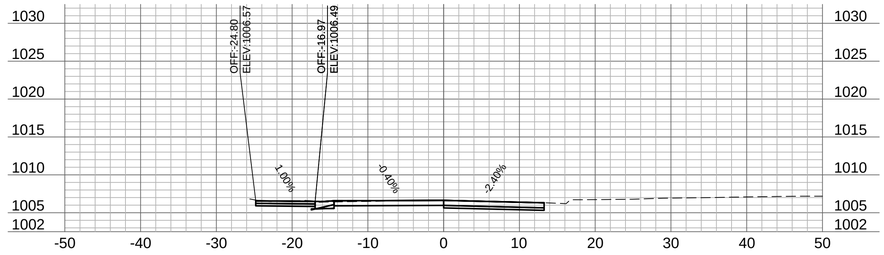

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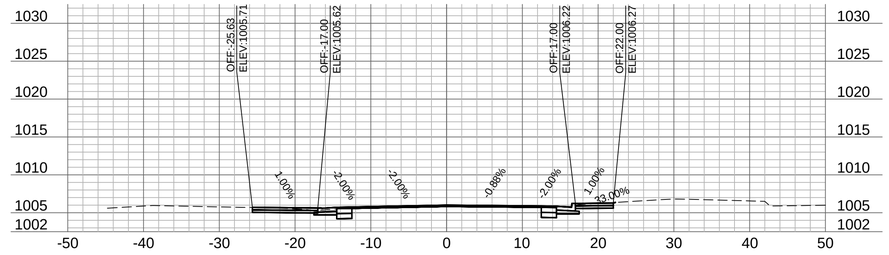

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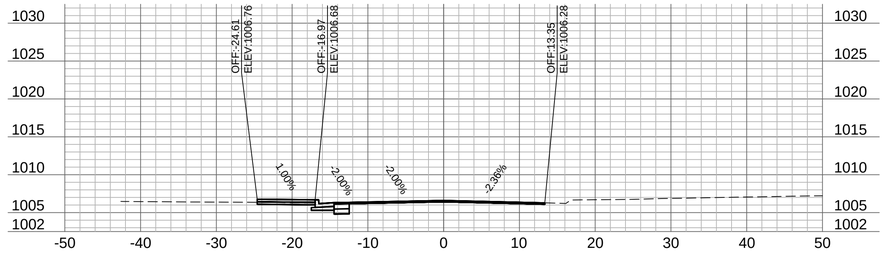

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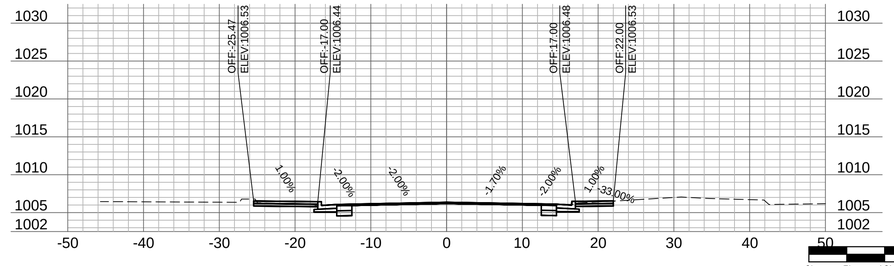

402+75




404+75




402+50




404+50

10'
5'
2.5'
0'
0' 5' 10' 20'
SCALE IN FEET

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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

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REVISIONS

BID ALTERNATIVE 2 - 10TH STREET

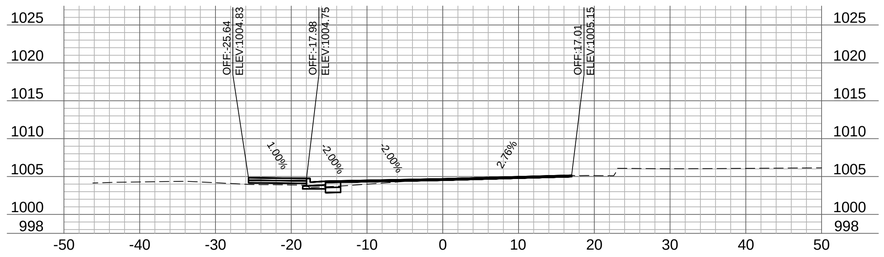
MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

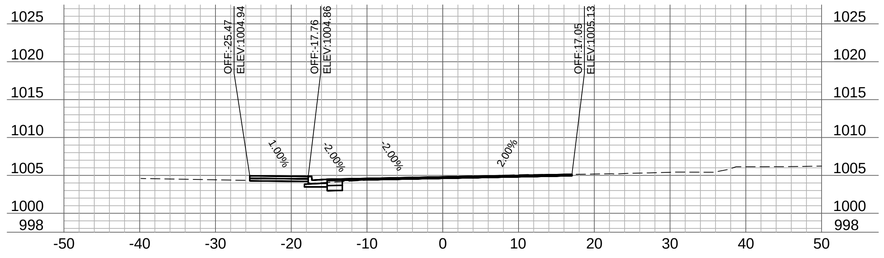
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checked by: MJM
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QA/QC by: JWP
project no.: 023-00893
drawing no.: T_XSC02_02300893
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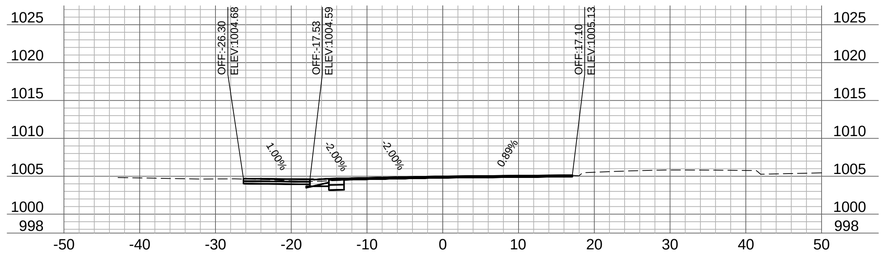
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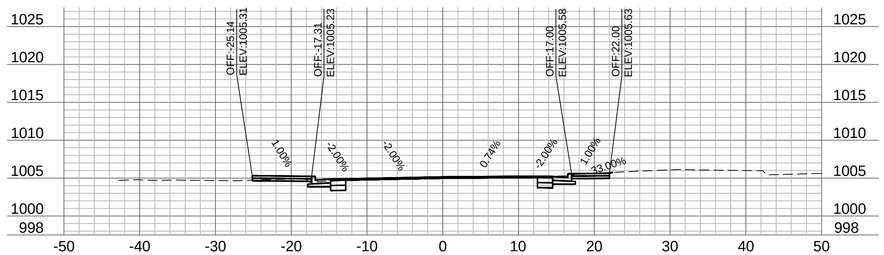

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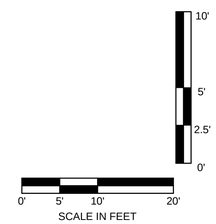

406+00




405+75




405+50




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BID ALTERNATIVE 2 - 10TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

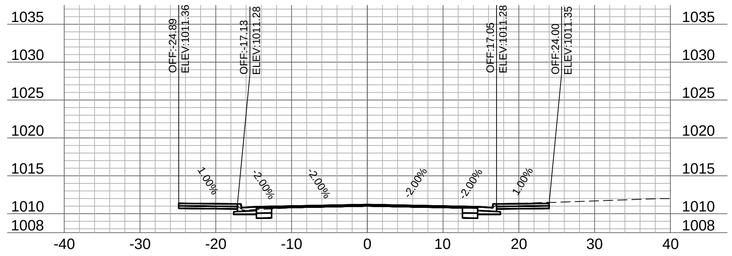
JOPLIN, MO

2025

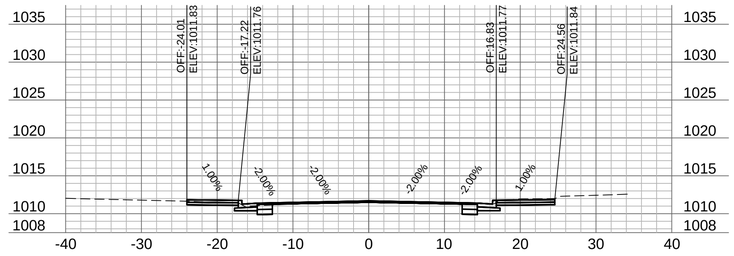
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| date: | 4.20.2026 |

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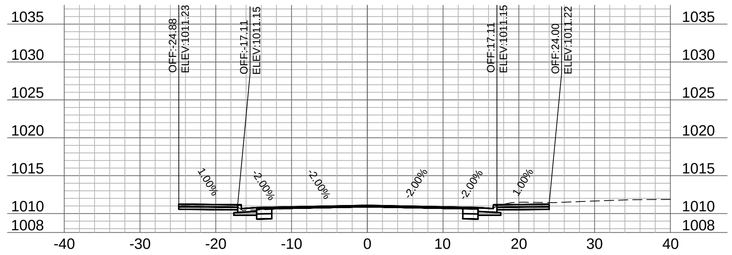
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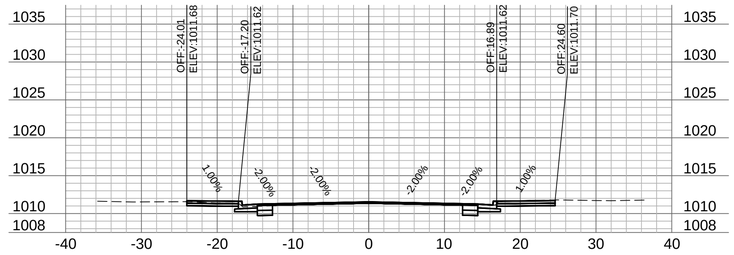

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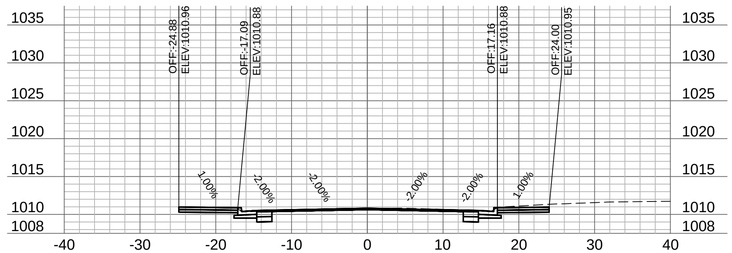

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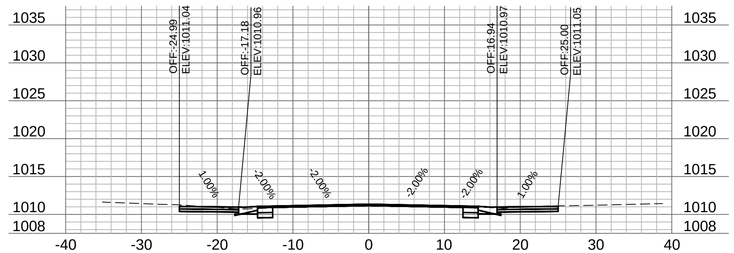

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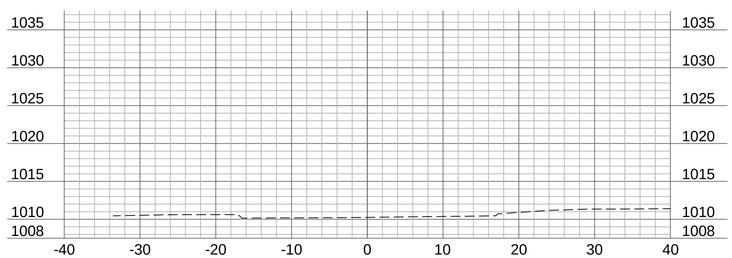

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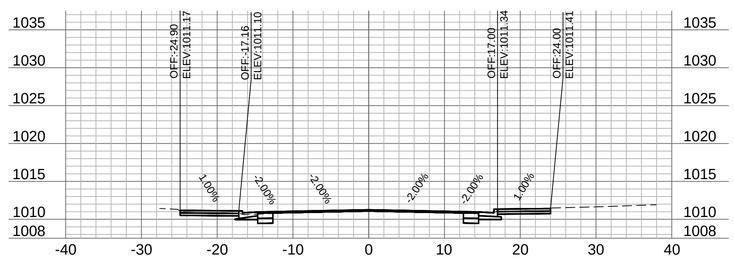

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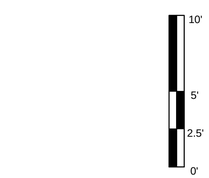

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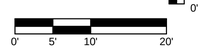



500+50




501+50




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REVISIONS

BID ALTERNARIVE 3 - 12TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

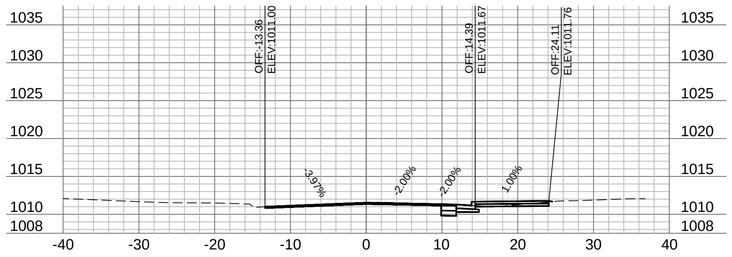
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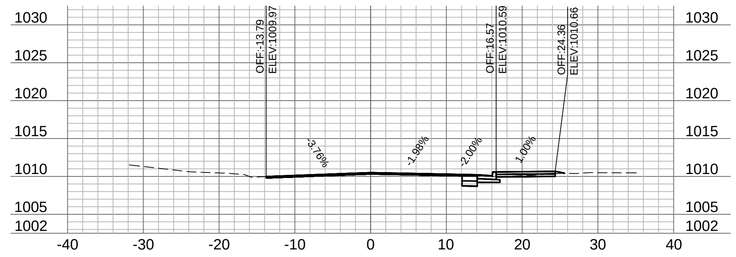
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| checked by: | MJM |
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| project no.: | 023-00893 |
| drawing no.: | T_XSC03_02300893 |
| date: | 4.20.2026 |

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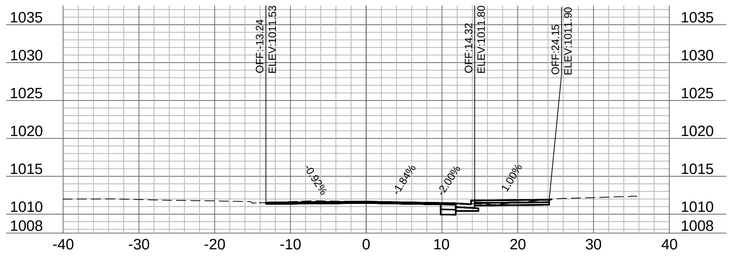
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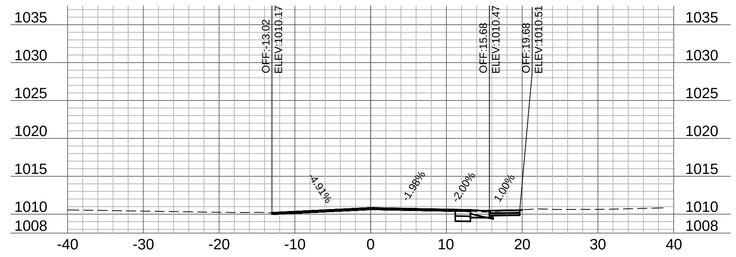

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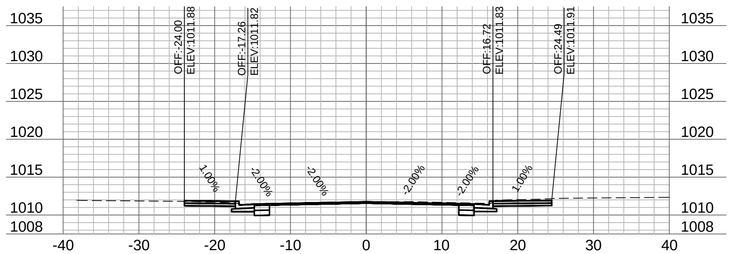

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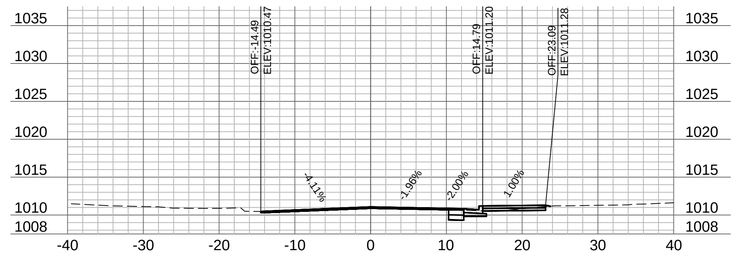

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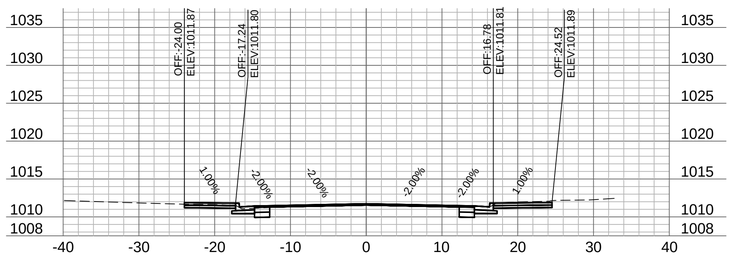

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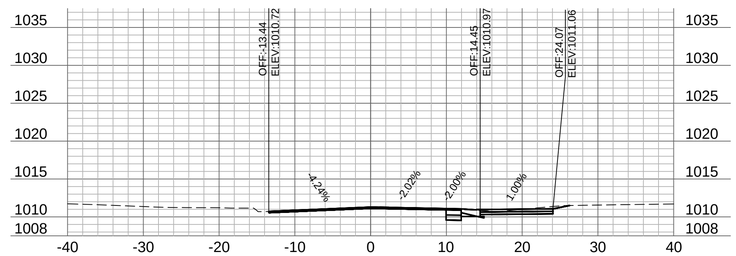

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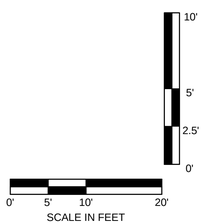

504+75




502+50




504+50







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MICHAEL J. MAYFARTH
NUMBER PE-2023037181
4/27/2026
PROFESSIONAL ENGINEER

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
|---|---|---|---|

REVISIONS

BID ALTERNARIVE 3 - 12TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

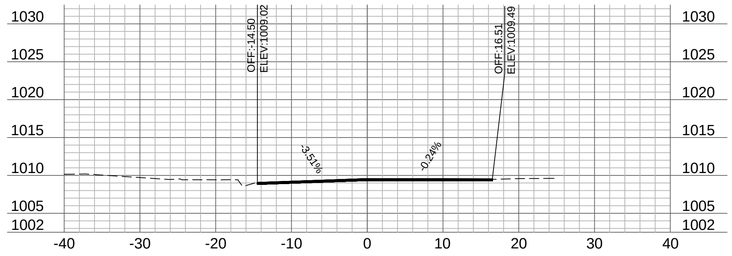
JOPLIN, MO

2025

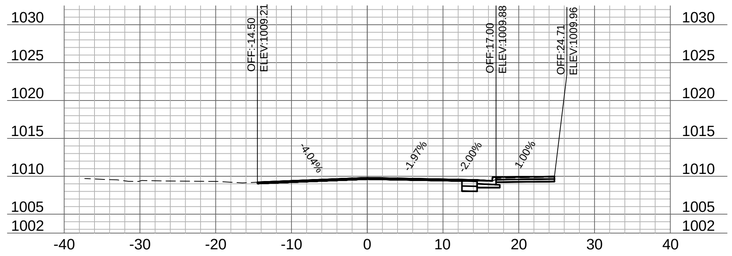
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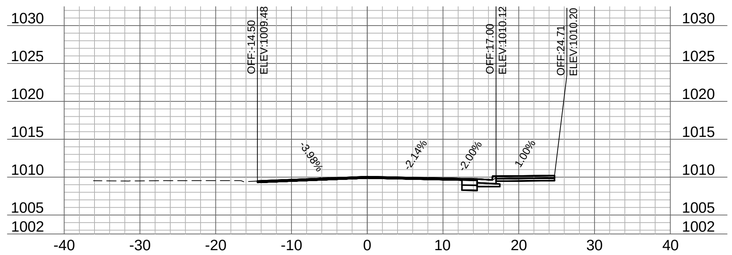
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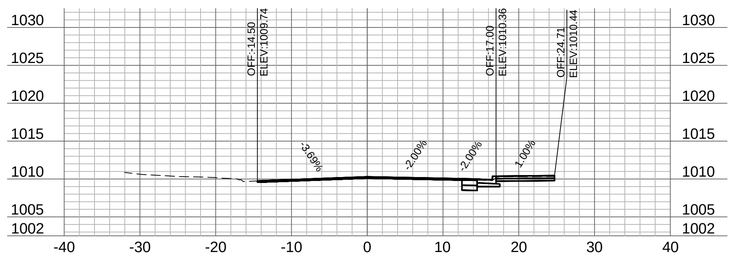

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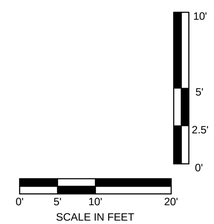

506+00




505+75




505+50





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BID ALTERNARIVE 3 - 12TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

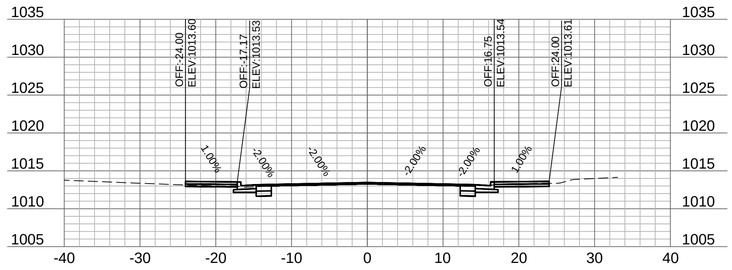
JOPLIN, MO

2025

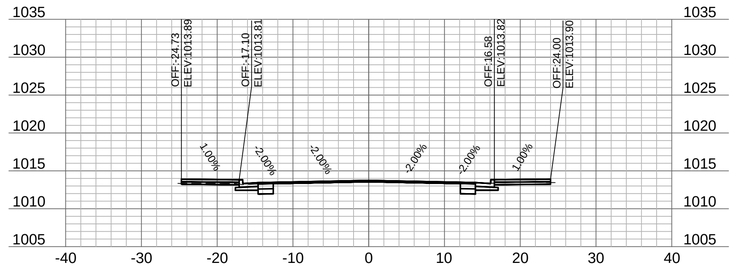
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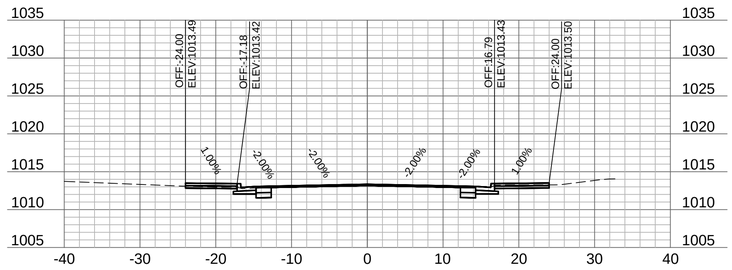
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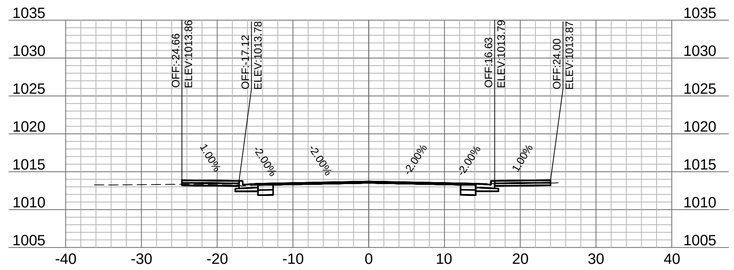

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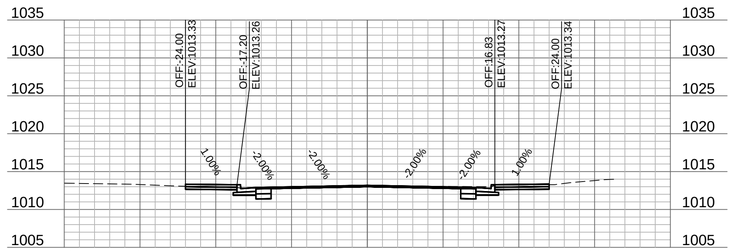

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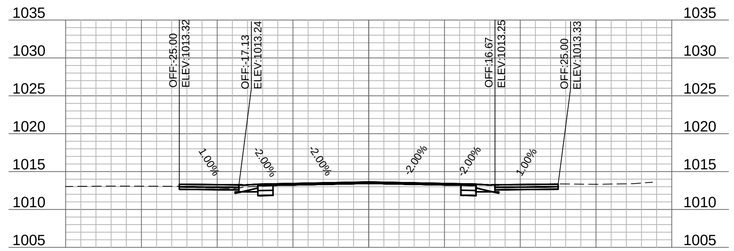

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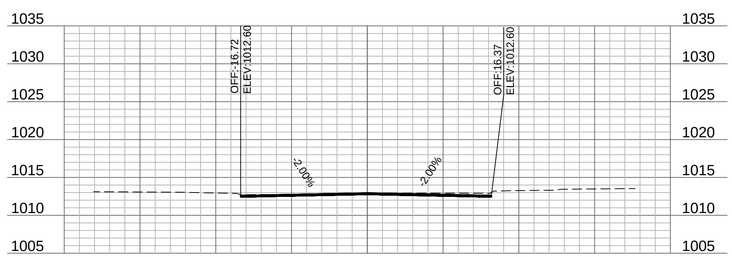

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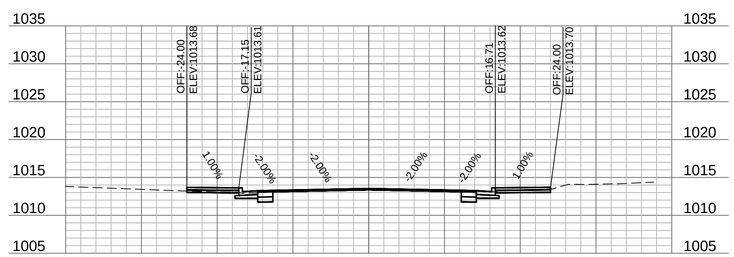

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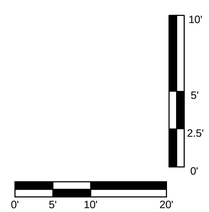

601+75




600+50




601+50




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REVISIONS

BID ALTERNARIVE 4 - 13TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

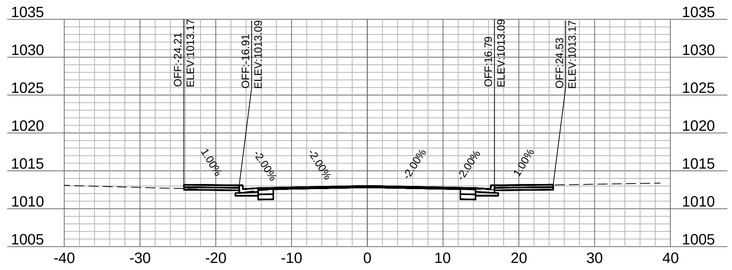
JOPLIN, MO

2025

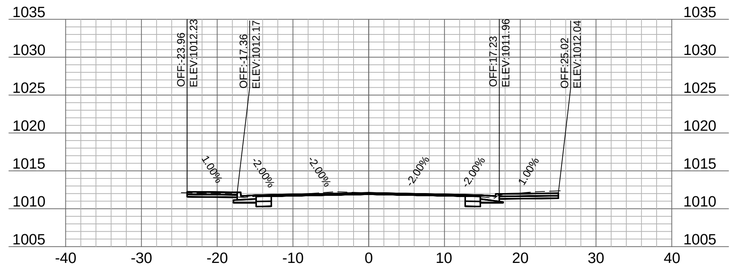
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| date: | 4.20.2026 |

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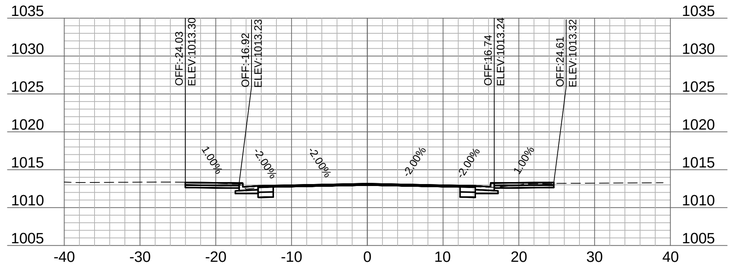
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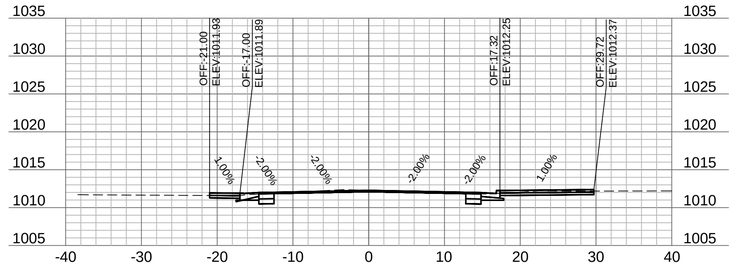

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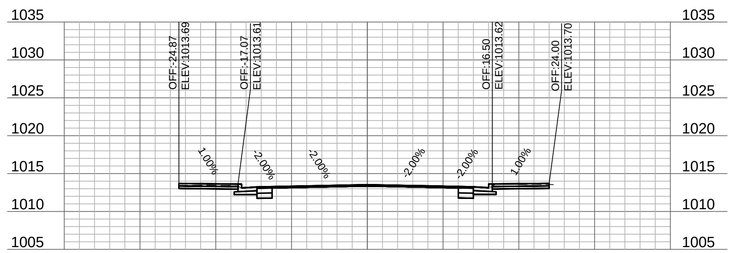

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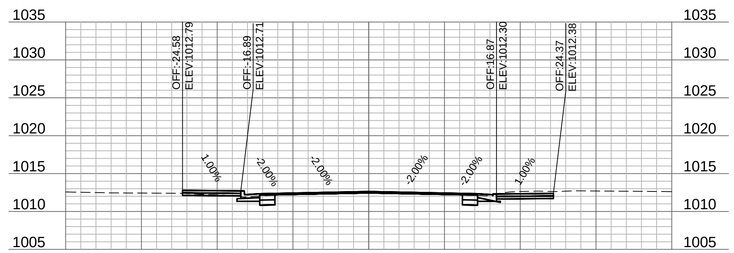

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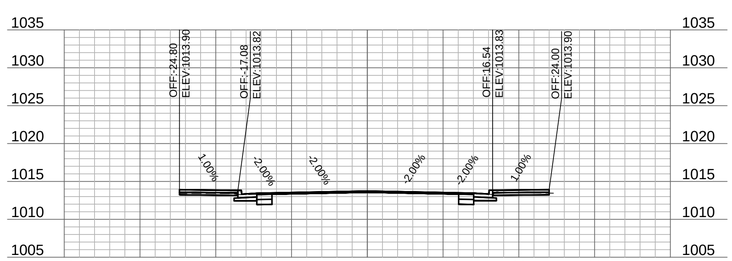

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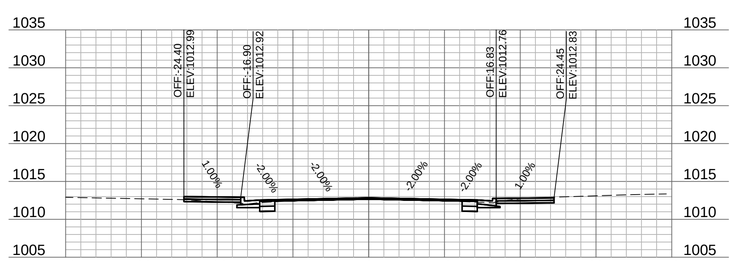

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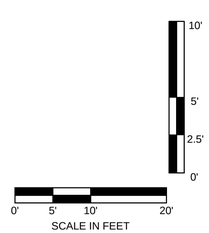

604+75




602+50




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REVISIONS

BID ALTERNARIVE 4 - 13TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

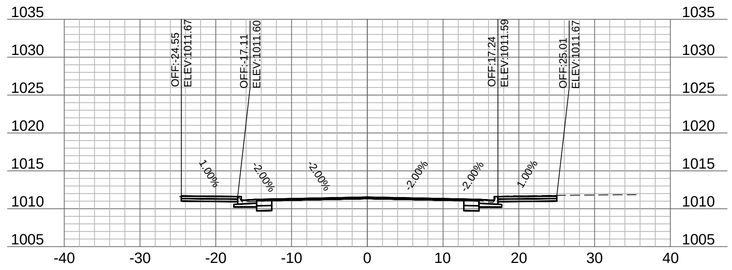
JOPLIN, MO

2025

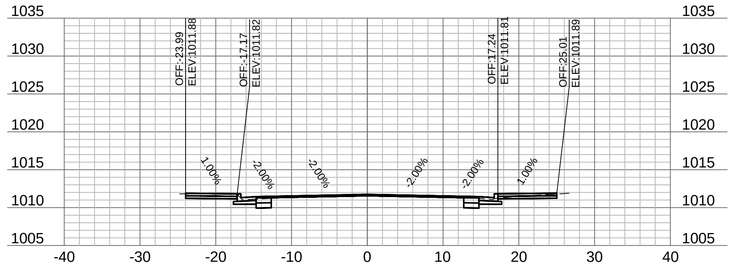
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| date: | 4.20.2026 |

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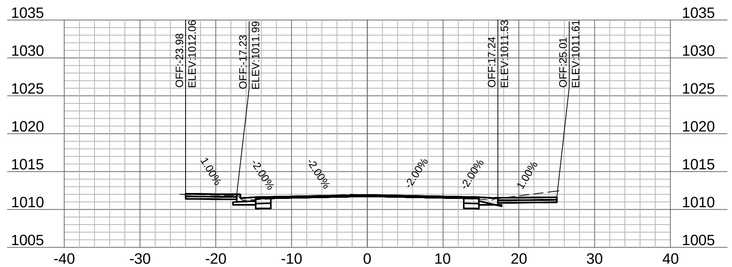
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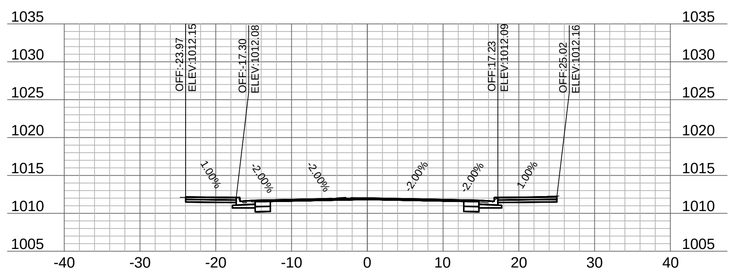

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BID ALTERNARIVE 4 - 13TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

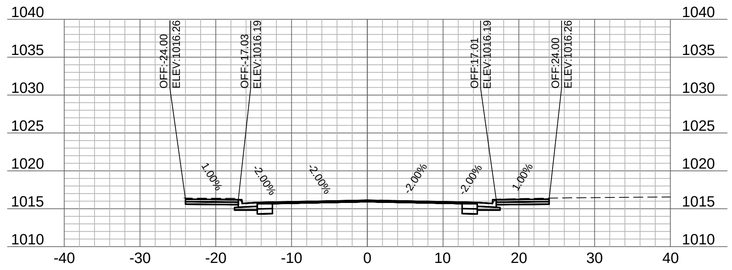
JOPLIN, MO

2025

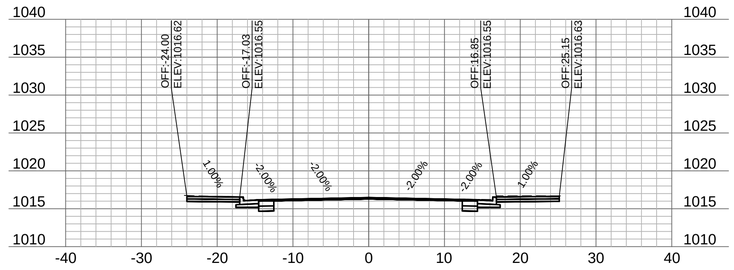
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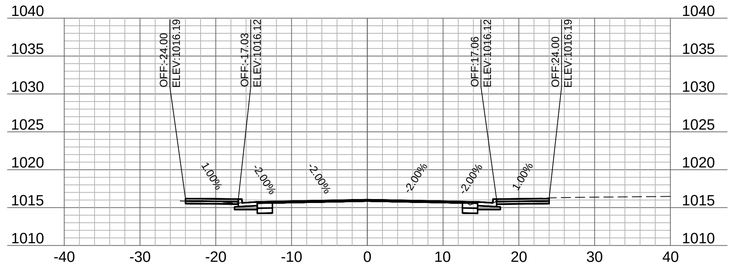
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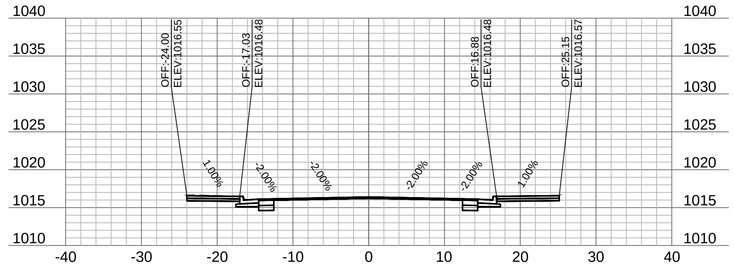

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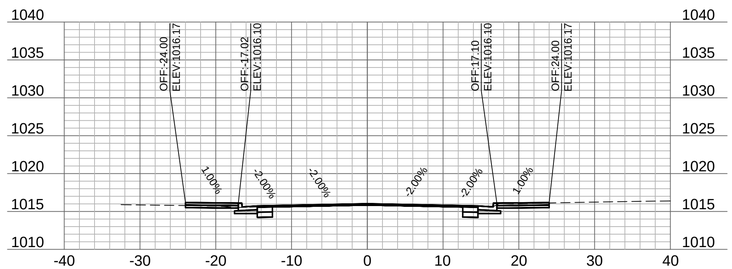

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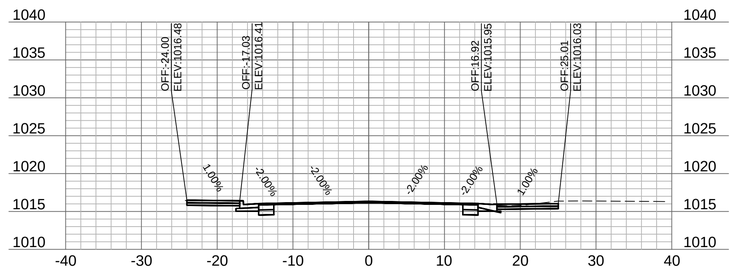

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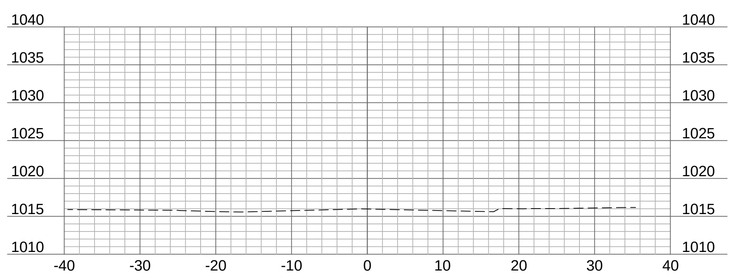

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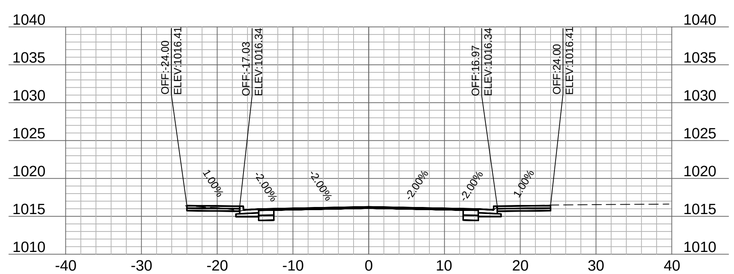

700+75




701+75



700+50




701+50

10'
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0' 5' 10' 20'
SCALE IN FEET

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REVISIONS

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BID ALTERNARIVE 5 - 14TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

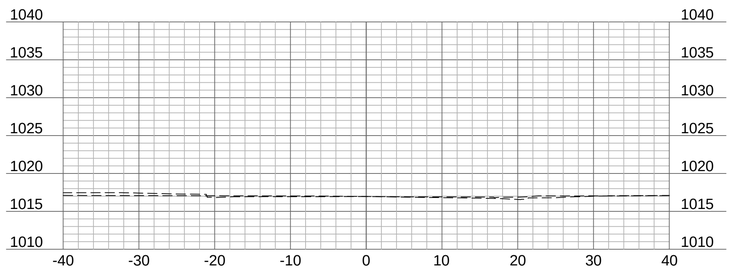
JOPLIN, MO

2025

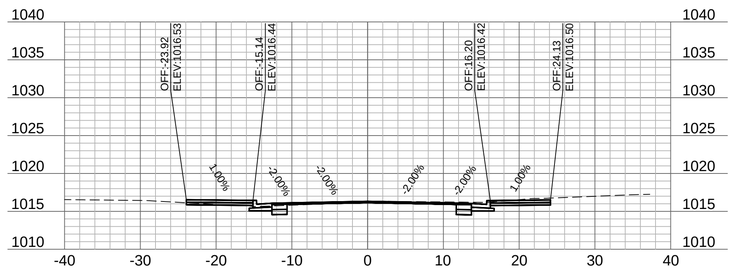
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| checked by: | MJM |
| approved by: | JWP |
| QA/QC by: | JWP |
| project no.: | 023-00893 |
| drawing no.: | T_XSC04_02300893 |
| date: | 4.20.2026 |

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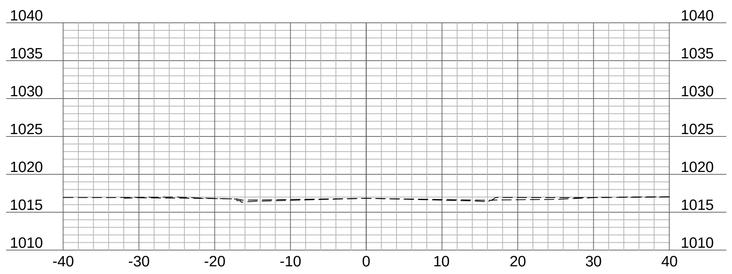
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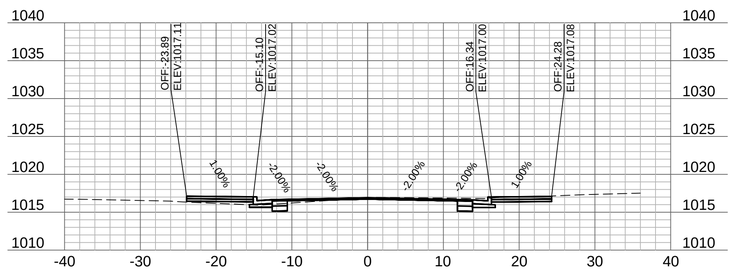

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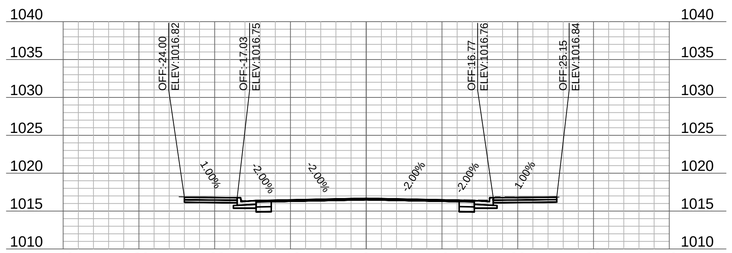

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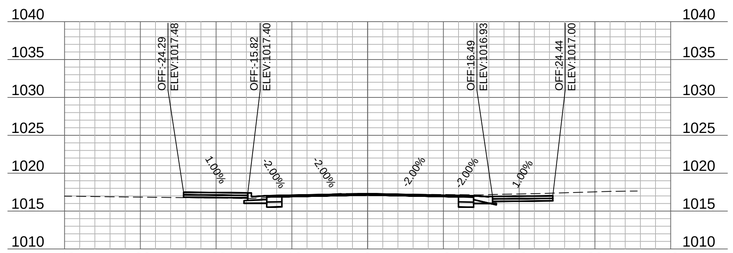

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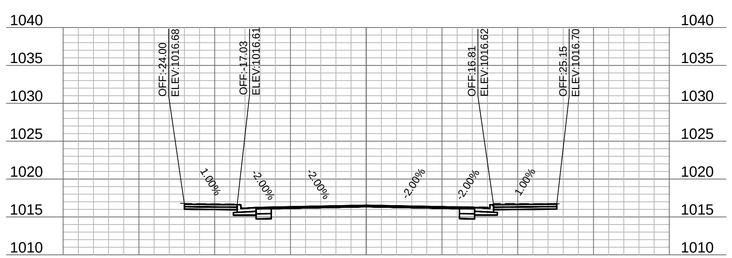

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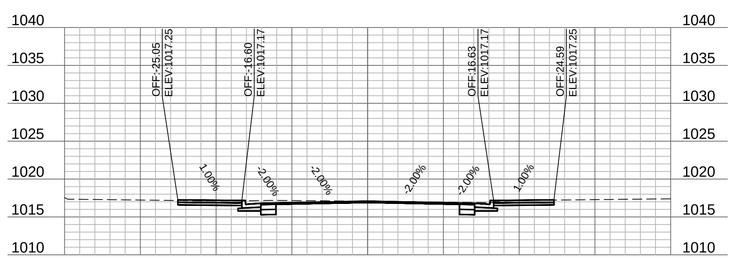

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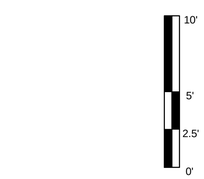

704+25




702+50




704+00




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Missouri Certificate of Authority # 001592
1027 S. Main Street, Suite 503 TEL 417.781.0643 www.olsson.com
Joplin, MO 64801

STATE OF MISSOURI
MICHAEL J. MAYFARTH
NUMBER PE-2023037181
PROFESSIONAL ENGINEER
4/27/2026

| REV. NO. | DATE | REVISIONS DESCRIPTION | BY |
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REVISIONS

BID ALTERNARIVE 5 - 14TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

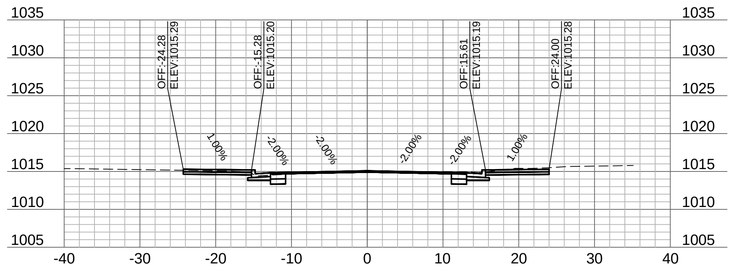
JOPLIN, MO

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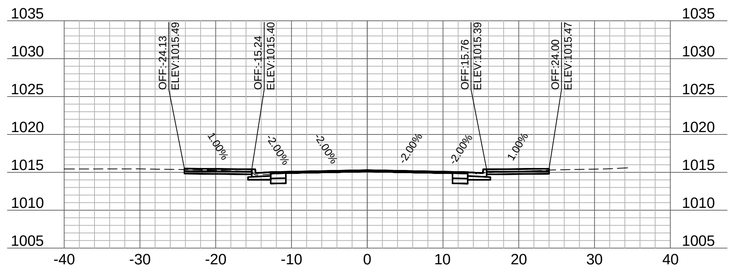
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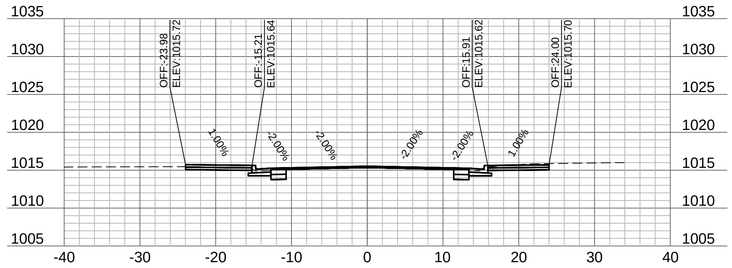
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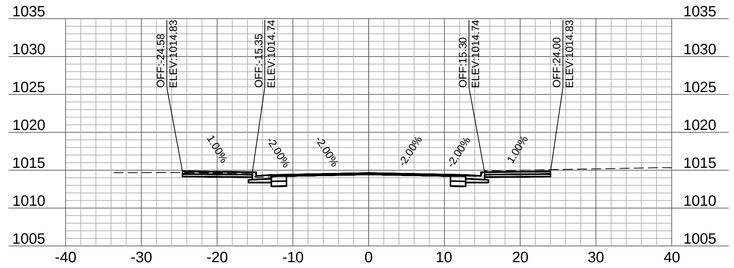

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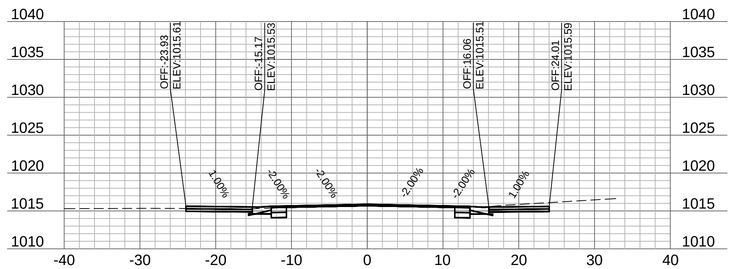

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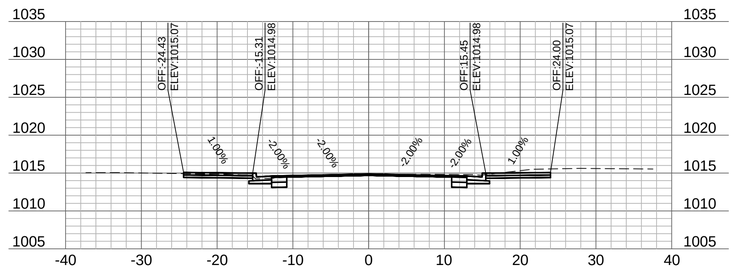

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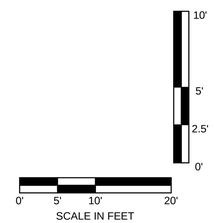

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BID ALTERNARIVE 5 - 14TH STREET

MAIN STREET STREETSCAPES
8TH ST TO 15TH ST

JOPLIN, MO

2025

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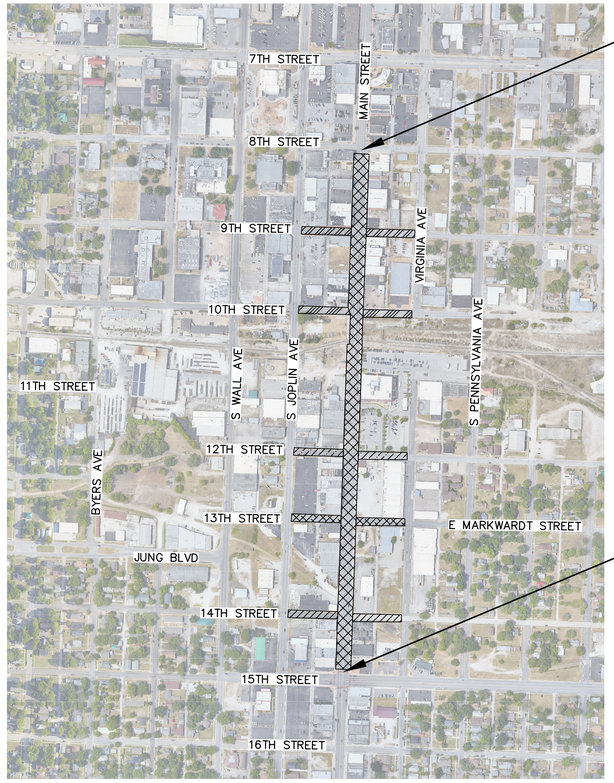
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USER: mmayfarth

## LEGEND

| | | | |
|---|---|---|---|
| CTL | SURVEY CONTROL POINT | TS | TRAFFIC SIGNAL BOX |
| | SURVEY BENCHMARK | TS | TRAFFIC SIGNAL MANHOLE |
| TBM | SURVEY TEMPORARY BEMCHMARK | | TRAFFIC SIGNAL POLE W/ ARM |
| GM | GAS METER | | TRAFFIC SIGNAL POLE |
| GAR | GAS RISER | TS | TRAFFIC SIGNAL CONTROL BOX |
| | GAS MANHOLE | TS | TRAFFIC SIGNAL PEDESTAL |
| GR | GAS REGULATOR | E | ELECTRIC MANHOLE |
| TVP | TELEVISION PEDESTAL | EM | ELECTRIC METER |
| F | FIBER BOX | ER | ELECTRIC RISER |
| FB | FIBER PEDESTAL | E | ELECTRIC BOX |
| C | CABLE BOX | | ELECTRIC CABINET |
| CV | CABLE VAULT | J | ELECTRIC JUNCTION BOX |
| TP | TELEPHONE PEDESTAL | SPH | SPRINKLER HEAD |
| | STORM MANHOLE | SCV | SPRINKLER CONTROL VALVE |
| | STORM GRATE | | WATER METER PIT |
| S | SANITARY MANHOLE | | FIRE HYDRANT |
| YL | YARD LIGHT | WM | WATER METER |
| LTP | LIGHT POLE | WV | WATER VALVE |
| | POWER POLE | FP | FLAG POLE |
| LPPP | POWER POLE W/ LIGHT | | SIGN |
| | GUY WIRE | | BOLLARD |
| BU | STUMP | | WOOD POST |
| | BUSH | | STEEL POST |
| | EVERGREEN TREE | COL | COLUMN |
| | DECIDUOUS TREE | | BORE HOLE |

- SECTION LINE
- PROPERTY LINE
- CENTER LINE
- PROPOSED ROW LINE
- EXISTING ROW LINE
- UTILITY EASEMENT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING TELEPHONE LINE
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC CABLE
- EXISTING PIPE LINE
- GRADING LIMITS
- TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED CHAIN LINK FENCE
- PROPOSED WOOD PRIVACY FENCE
- EXISTING TREELINE
- CONSTRUCTION LIMITS
- UNDERDRAIN

# LANDSCAPE PLANS FOR
# MAIN STREET STREETSCAPE
# 8th STREET TO 15th STREET
## SECTIONS 10 & 11, TOWNSHIP 27N, RANGE 33W
## CITY OF JOPLIN, MISSOURI
## JASPER COUNTY, MISSOURI




## INDEX OF SHEETS


| SHEET NO. | TITLE |
|---|---|
| 1 | TITLE SHEET |
| 2 | SUMMARY OF QUANTITIES |
| 3 | DOWNTOWN LANDSCAPE PLAN – 1 |
| 4 | DOWNTOWN LANDSCAPE PLAN – 2 |
| 5 | MIDTOWN LANDSCAPE PLAN – 3 |
| 6 | MIDTOWN LANDSCAPE PLAN – 4 |
| 7 | MIDTOWN LANDSCAPE PLAN – 5 |
| 8 | MIDTOWN LANDSCAPE PLAN – 6 |
| 9 | LANDSCAPE DETAILS |
| 10 | LANDSCAPE DETAILS |


## ABBREVIATION TABLE

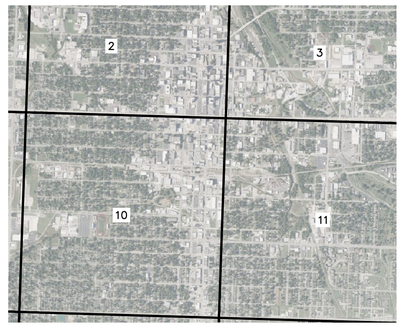
| | |
|---|---|
| M.G. | MATCH GRADE |
| TP | PAVEMENT |
| TC | TOP OF CURB |
| BC | BACK OF CURB |
| EP | EDGE OF PAVEMENT |
| R/W | RIGHT–OF–WAY |
| TCE | TEMPORARY CONSTRUCTION EASEMENT |
| PROP. | PROPOSED |
| EXIST. | EXISTING |
| TYP. | TYPICAL |
| (R) | REMOVAL |
| CONST. | CONSTRUCT |
| TBM | TEMPORARY BENCMARK |
| C.P. | CONTROL POINT |
| D.N.D. | DO NOT DISTURB |
| U.I.P. | USE IN PLACE |
| ADJ. | ADJUST |
| EL. | ELEVATION |
| ESMT. | EASEMENT |
| B–B | BACK OF CURB TO BACK OF CURB DIMENSION |
| ℄ | CENTERLINE |

MISSOURI ONE CALL SYSTEM
**1-800-DIG-RITE ☎ 811**
**www.mo1call.com**

THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1–800–DIG–RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!

## DESIGN DESIGNATION

MAJOR ARTERIAL
DESIGN SPEED: 20 MPH MAIN STREET 8TH –10TH
30 MPH MAIN STREET 10TH – 15TH
POSTED SPEED: 20 MPH MAIN STREET 8TH –10TH
30 MPH MAIN STREET 10TH – 15TH
20 MPH 8TH, 9TH, 10TH, 11TH, 12TH, 13TH, 14TH STREETS




SECTION 02, 03, 10, 11
T–27–N, R–33–W
JASPER COUNTY, MISSOURI

## VICINITY MAP

SCALE: 1" = 2000'

## UTILITIES INFORMATION

ELECTRIC – LIBERTY UTILITIES
ATTN: RICK STOCKTON
3400 S. KODIAK ROAD
JOPLIN, MO 64804
417.850.7919

NATURAL GAS – SPIRE
ATTN: BAYLEE GODAT
520 E. 5TH STREET
JOPLIN, MO 64801
816.334.8075

WATER – MISSOURI–AMERICAN WATER CO.
ATTN: MATT HANNA
2323 DAVIS BLVD.
JOPLIN, MO 64804
417.529.9783

TELEPHONE – AT&T
ATTN: JOHN FISK
321 W. 8TH STREET
JOPLIN, MO 64801
(417) 529–0840

CABLE TELEVISION – CABLE ONE DIGITAL
ATTN: RANDY KENNEDY
112 E 32ND STREET
JOPLIN, MO 64804
(417) 206–5399

FIBER OPTIC – LIBERTY CONNECT
ATTN: BRAD MYERS
720 SCHIFFERDECKER AVE
JOPLIN, MO 64801
(417) 625–5179

## PREPARED & SUBMITTED BY:

OLSSON
702 S. MAIN STREET
JOPLIN, MISSOURI 64801

JANE EARNHART, PLA — DATE

## APPROVED BY:

CITY OF JOPLIN, MISSOURI

CITY ENGINEER — DATE


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Olsson - Landscape Architecture
Missouri COA #2005000225
1027 S. Main Street, Suite 503
Joplin, MO 64801
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REVISIONS

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| | | RAR | |

TITLE SHEET

MAIN STREET LANDSCAPE
8TH ST TO 15TH ST

2026

JOPLIN, MO

drawn by: RAR
checked by: RAR
approved by: JKE
QA/QC by: JKE
project no.: 023-00893
drawing no.: L_TTL01_02300893
date: 4.20.2026

SHEET
1 of 10


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## GENERAL NOTES:

1. ALL WORK PRESENTED, IMPLIED, AND/OR COMPLETED AS A PART OF THIS PLAN SET SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE CITY OF JOPLIN UNLESS SPECIFICALLY STATED OTHERWISE. ALL ITEMS AND WORK REFERENCING MODOT STANDARD DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS (APPROVED BY CITY OF JOPLIN) AND ONE (1) COPY OF ALL APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS ON THE SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
4. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST VERSION) THROUGHOUT THE PROJECT IN HIGHWAYS, SIDEWALKS, STREETS AND INTERSECTIONS.
6. ALL ELEVATIONS ARE TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 1988).
7. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DO A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
8. THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO THE ENGINEER FOR APPROVAL OF ALL AREAS TO BE USED FOR STAGING, MOBILIZATION, EQUIPMENT AND MATERIAL STORAGE AND GENERAL PROJECT CONSTRUCTION MANAGEMENT. REQUEST SHALL BE SUBMITTED TO THE ENGINEER WITHIN 5 DAYS OF THE NOTICE TO PROCEED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GENERAL SAFETY AT AND ADJACENT TO THE PROJECT AREA, INCLUDING THE PERSONAL SAFETY OF THE CONSTRUCTION CREW AND THE GENERAL PUBLIC AND THE SAFETY OF PUBLIC AND PRIVATE PROPERTY. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
10. NO EQUIPMENT OR MATERIAL SHALL BE DEPOSITED ON PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES RESULTING FROM SUCH ACTS AND SHALL REMOVE THE MATERIAL AND RESTORE THE PROPERTY AT THE EXPENSE OF THE CONTRACTOR.
11. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 7:00 PM UNLESS APPROVED OR DIRECTED BY THE ENGINEER.
12. THE CITY OF JOPLIN SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DEMOLITION AND REMOVAL ITEMS SUCH AS SIGNAGE, POLES, ETC. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS FOR A TIME AND LOCATION TO DELIVER THOSE ITEMS TO THE CITY. CONSTRUCTION DEBRIS SUCH AS BROKEN CONCRETE, EXCESS FILL, ETC. SHALL BECOME THE PROPERTY OF THE CONTRACTOR. MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE PRIOR TO ACCEPTANCE OF THE PROJECT. ALL MATERIAL SHALL BE DISPOSED OF IN A MANNER THAT IS IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
13. ALL ITEMS REMOVED SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR AS PER CITY OF JOPLIN REQUIREMENTS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL TREE GRATES, TREE GUARDS, WATERING PORTS AND ELECTRICAL OUTLETS, AS NEEDED TO ACCOMMODATE THE TREE INSTALLATION. THESE ITEMS ARE SUBSIDIARY TO OTHER BID ITEMS.
15. MISSOURI AMERICAN WATER SHALL BE RESPONSIBLE FOR ADJUSTING ALL WATER METERS, VALVE BOXES, HYDRANTS, ETC. TO MATCH PROPOSED FINISHED GRADE. THE CONTRACTOR SHALL CONTACT MISSOURI AMERICAN WATER TO COORDINATE THE ADJUSTMENT OF EXISTING WATER FACILITIES.
16. UNLESS SPECIFICALLY STATED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING METERS, VALVES, VALVE BOXES, BUILDING DRAIN LINES, ETC. TO MATCH FINISHED GRADE WITHIN MULCHED AREAS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
17. RIGHT-OF-WAY AND EASEMENTS SHOWN ARE APPROXIMATE, AND DO NOT DEPICT A LEGAL SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT LOCATION OF RIGHT-OF-WAY, PROPERTY LINES, AND EASEMENTS AND CONTAINING ACTIVITIES WITHIN THOSE LIMITS.
18. THE CONTRACTOR SHALL PROTECT EXISTING RIGHT-OF-WAY AND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RESET AT THE CONTRACTOR'S EXPENSE BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI.
19. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SCHEDULE OF OPERATIONS AT THE BEGINNING OF EACH WEEK. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PUBLIC STREETS IN THE VICINITY OF THE JOB SITE CLEAN AND FREE OF ROCKS, SOIL AND DEBRIS. CLEAN STREETS OF CONSTRUCTION DEBRIS DAILY. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTIONS AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. THE CONTRACTOR SHALL UTILIZE AND COMPLY WITH ALL REQUIREMENTS OF THE CITY OF JOPLIN'S LAND DISTURBANCE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
22. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE ENTIRE CONSTRUCTION PERIOD BY THE CONTRACTOR. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
23. CONTRACTOR TO PROTECT ANY STORM INLETS FROM SEDIMENT THAT TAKE STORM WATER FROM THE AREA OF CONSTRUCTION. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
24. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPOST FILTER SOCK, GRAVEL FILTER BAGS, OR OTHER MEANS TO PREVENT ERODED MATERIALS FROM REACHING THE PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTIES. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS, SILT, OR MUD AND RESTORE THE RIGHT-OF-WAY TO ORIGINAL OR BETTER CONDITION. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
25. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL PROCEDURES SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK ACTIVITIES. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL BARRIERS DURING CONSTRUCTION OR UNTIL THEY ARE RELEASED FROM THIS RESPONSIBILITY BY THE ENGINEER. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
27. THE CONTRACTOR SHALL CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES AND MANHOLES OF DEBRIS AND SEDIMENTATION AT COMPLETION OF SITE WORK. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE OWNER & ENGINEER. THIS ITEM IS SUBSIDIARY TO EROSION CONTROL.
28. IF THE CONTRACTOR'S OPERATIONS CAUSE AN UNSATISFACTORY SUBGRADE, THE CONTRACTOR SHALL RESTORE THE SUBGRADE TO A SATISFACTORY CONDITION AT THE CONTRACTOR'S EXPENSE.
29. EXISTING TREE PIT PLANTING SOIL SHALL BE STOCKPILED. THIS PLANTING SOIL SHALL BE USED AS FILL MATERIAL ON ALL TREE PIT AREAS.
30. ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE WORK. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
31. ALL BACK FILL SHALL BE TAMPED. BACKFILL SHALL BE COMPACTED PER PLANTING DETAILS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
32. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
33. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO ACTUAL LOCATION OF EXISTING FACILITIES. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
34. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN WITHIN THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIRS OF SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY CONSTRUCTION ACTIVITIES. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
35. ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE JOPLIN STANDARD SPECIFICATIONS. NO SEPARATE MEASUREMENTS AND PAYMENT WILL BE MADE FOR EXCAVATION AND BACKFILL REQUIRED FOR TREE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF MATERIAL AND DISPOSAL OF EXCESS MATERIAL FROM EXCAVATION. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.
36. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE CONVEYANCE DURING CONSTRUCTION.
37. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE; NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.

BEFORE SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE DETERMINED AND VERIFIED:

A. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT THERETO;
B. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK;
C. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO;
D. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES, AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.

ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY REVIEWED THE SUBMISSION AND CHECKED ALL DATA AND DETAILS. BY CONTRACTOR SIGNATURE, CONTRACTOR CERTIFIES SHOP DRAWING CONFORMANCE AND ACCURACY TO THE CONTRACT DOCUMENTS.

40. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE OWNER, TENANT, DELIVERY AND EMERGENCY VEHICULAR AND/OR PEDESTRIAN ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES IN ACCORDANCE WITH THE CITY OF JOPLIN, ADA, PROWAG, AND MUTCD REQUIREMENTS, INCLUDING TEMPORARY ACCESS AND SAFETY REQUIREMENTS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THIS ITEM IS SUBSIDIARY TO OTHER BID ITEMS.

## GENERAL PLANTING NOTES:

1. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITY LINES AND OTHER ABOVE OR BELOW GROUND OBSTRUCTIONS SO THAT PROPER PRECAUTIONS SHALL BE TAKEN NOT TO DISTURB OR DAMAGE SUCH IMPROVEMENTS. REFER TO CIVIL AND MEP DRAWINGS FOR PROPOSED AND EXISTING UTILITY LOCATIONS.
2. STANDARDS SET FORTH IN "AMERICAN STANDARDS FOR NURSERY STOCK" REPRESENT GENERAL GUIDELINE SPECIFICATIONS ONLY AND WILL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
3. THE OWNER REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
4. ALL TREES SHALL BE CALIPERED. UNDERSIZED AND OVERSIZED TREES SHALL BE REJECTED. ACCEPTED CALIPER MEASUREMENT SHALL RANGE FROM 1½" TO 2½".
5. SPECIFIED CALIPER MEASUREMENT FOR TREES SHALL BE MEASURED AT 6" ABOVE THE ROOT FLARE.
6. ANY MATERIAL WHICH DIES, OR DEFOLIATES (PRIOR TO ACCEPTANCE OF THE WORK) WILL BE PROMPTLY REMOVED AND REPLACED.
7. THE CONTRACTOR IS RESPONSIBLE FOR SOIL SAMPLING AND TESTING TO DETERMINE EXACT FERTILIZER REQUIREMENTS AND SOIL AMENDMENTS.
8. PLANTS AND OTHER MATERIALS ARE QUANTIFIED AND SUMMARIZED FOR THE CONVENIENCE OF THE CITY AND LOCAL GOVERNING BODIES. CONFIRM AND INSTALL SUFFICIENT QUANTITIES TO COMPLETE THE WORK AS DRAWN.
9. BACKFILL TREE PITS WITH SPECIFIED PLANTING MIX.
10. INSTALL WOVEN BLACK LANDSCAPE WEED BARRIER FABRIC (DEWITT 20 YEAR, 4.1 OZ., WOVEN WEED BARRIER FABRIC OR EQUAL) IN ALL PLANTING BEDS BENEATH MULCH. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
11. THE PLAN IS SUBJECT TO CHANGES BASED ON PLANT SIZE AND MATERIAL AVAILABILITY. ANY DEVIATION TO THE APPROVED FINAL LANDSCAPE PLAN SHALL REQUIRE THE WRITTEN APPROVAL OF THE OWNER REPRESENTATIVE PRIOR TO INSTALLATION.
12. LANDSCAPE CONTRACTOR SHOULD PROVIDE UNIT COSTS AND POSSIBLE ALTERNATES FOR PLANT MATERIAL TO THE OWNER REPRESENTATIVE.
13. KILL AND REMOVE ALL EXISTING WEEDS FROM THE SITE AREA PRIOR TO PLANTING.
14. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY MAINTAINING THE WORK (INCLUDING BUT NOT LIMITED TO; WATERING, MULCHING, SPRAYING, FERTILIZING, ETC.) OF ALL PLANTING AND TURF AREAS UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER REPRESENTATIVE.
15. THE LANDSCAPE CONTRACTOR WILL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. CONTRACTOR WILL MAKE ALL REPLACEMENTS PROMPTLY (AS PER DIRECTION OF OWNER).
16. REFER TO WRITTEN JOB SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
17. CONTRACTOR SHALL STAKE OR MARK ALL PLANT MATERIAL LOCATIONS FOR APPROVAL BY OWNER REPRESENTATIVE PRIOR TO INSTALLATION.
18. OWNER REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS, PLANS, DETAILS OR MINIMUM QUALITY REQUIREMENTS.

### SUMMARY OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT TYPE | NO. UNITS |
|---|---|---|---|
| 1 | MOBILIZATION AND ALL OTHER REQUIRED MATERIALS | LS | 1 |
| 2 | EROSION CONTROL | LS | 1 |
| 3 | 2" CALIPER B&B DOWNY SERVICEBERRY – Amelanchier canadensis | EA | 4 |
| 4 | 2" CALIPER B&B SPRING SNOW CRABAPPLE – Malus x 'Spring Snow' | EA | 9 |
| 5 | 2" CALIPER B&B SUGAR TYME CRABAPPLE – Malus x 'Sutyzam' | EA | 6 |
| 6 | 2" CALIPER B&B IVORY SILK JAPANESE TREE LILAC – Syringa reticulata 'Ivory Silk' | EA | 8 |
| 7 | 1 QT. CONTAINER CABBAGE PALM Cordyline australis 'Red Star' | EA | 15 |
| 8 | 1 QT. CONTAINER SWEET POTATO VINE Ipomoea Sweet Caroline Sweetheart Lime | EA | 30 |
| 9 | 2 QT. CONTAINER PINK MANDEVILLA MANDEVILLA SPP. | EA | 60 |
| 10 | CEDAR MULCH (3" DEPTH) | SF | 813 |
| 11 | DEEPROOT UB18-2, 18" DEPTH ROOT BARRIER | LF | 659 |
| 12 | FIRST AND SECOND YEAR LANDSCAPE MAINTENANCE | LS | 1 |
| 13 | 1 QT. CONTAINER CABBAGE PALM (2ND-YR INSTALLATION) Cordyline australis 'Red Star' | EA | 15 |
| 14 | 1 QT. CONTAINER SWEET POTATO VINE (2ND-YR INSTALLATION) Ipomoea Sweet Caroline Sweetheart Lime | EA | 30 |
| 15 | 2 QT. CONTAINER PINK MANDEVILLA (2ND-YR INSTALLATION) MANDEVILLA SPP. | EA | 60 |

### NOTE:

SILVA CELL 2, PLANTING SOIL, SLEEVING, TREE GRATE & FRAME, TREE GUARD, AND BRICK PAVERS TO BE INSTALLED BY OTHERS UNDER SEPARATE CONTRACT. REFER TO PLAN SET "MAIN STREET STREETSCAPE 8TH STREET TO 15TH STREET".

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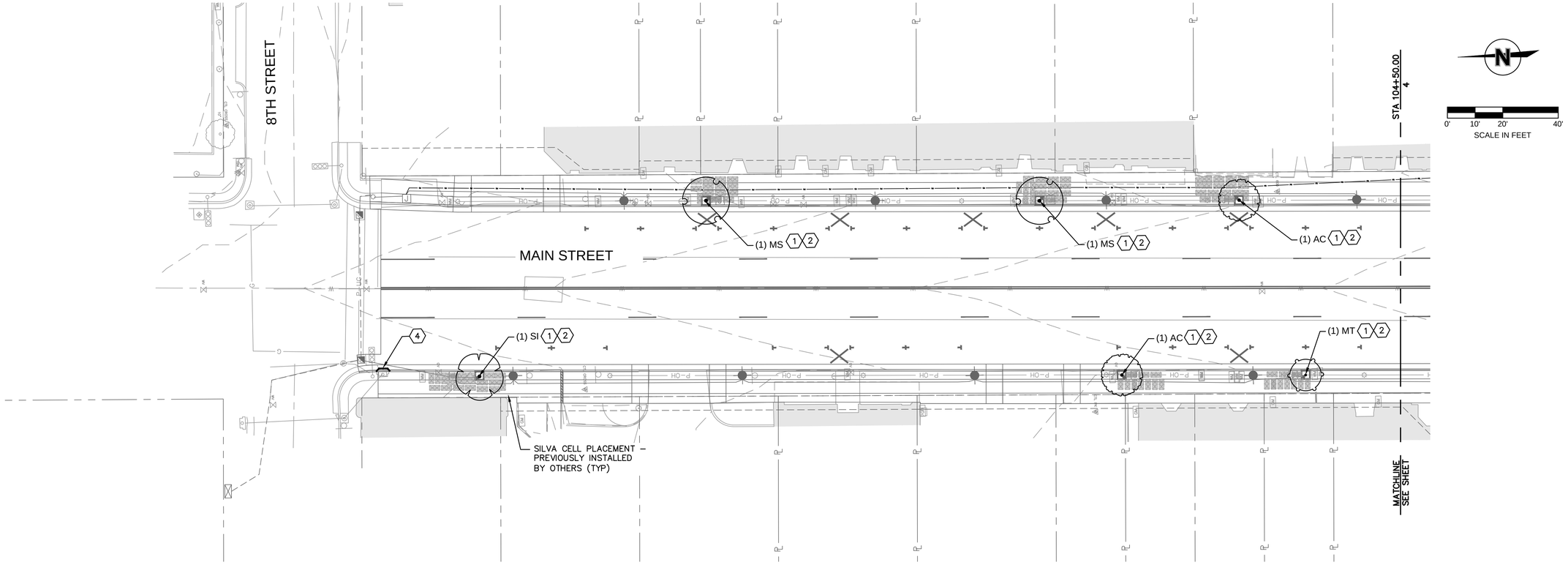
SUMMARY OF QUANTITIES

MAIN STREET LANDSCAPE
8TH ST TO 15TH ST

JOPLIN, MO

2026

drawn by: RAR
checked by: RAR
approved by: JKE
QA/QC by: JKE
project no.: 023-00893
drawing no.: L LSC 02300893
date: 4.20.2026




KEYNOTES:

1. DECIDUOUS TREE PLANTING IN SILVA CELL WITH CEDAR MULCH (REFER TO DETAILS ON SHEETS 9 & 10)
2. REMOVE TREE GRATE/TREE GUARD, PLANT TREE, THEN REINSTALL TREE GRATE/TREE GUARD (REFER TO DETAIL ON SHEET 9)
3. BLACK POT (WITHIN PAVER AREA) (REFER TO PRODUCT INFORMATION ON SHEET 9)
4. INLET PROTECTION (REFER TO DETAILS ON SHEET 9)

PLANT SCHEDULE

| SYMBOL | CODE | BOTANICAL / COMMON NAME | SIZE | CONTAINER TYPE | REMARKS |
|---|---|---|---|---|---|
| ORNAMENTAL TREES | | | | | |
| | AC | AMELANCHIER CANADENSIS<br>DOWNY SERVICEBERRY | 2" CAL. | B&B | NON–FRUIT |
| | MS | MALUS X 'SPRING SNOW'<br>SPRING SNOW CRABAPPLE | 2" CAL. | B&B | NON–FRUIT |
| | MT | MALUS X 'SUTYZAM'<br>SUGAR TYME CRABAPPLE | 2" CAL. | B&B | NON–FRUIT |
| | SI | SYRINGA RETICULATA 'IVORY SILK'<br>IVORY SILK JAPANESE TREE LILAC | 2" CAL. | B&B | |

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| | | | RAR |

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DOWNTOWN LANDSCAPE PLAN - 1

MAIN STREET LANDSCAPE
8TH ST TO 15TH ST

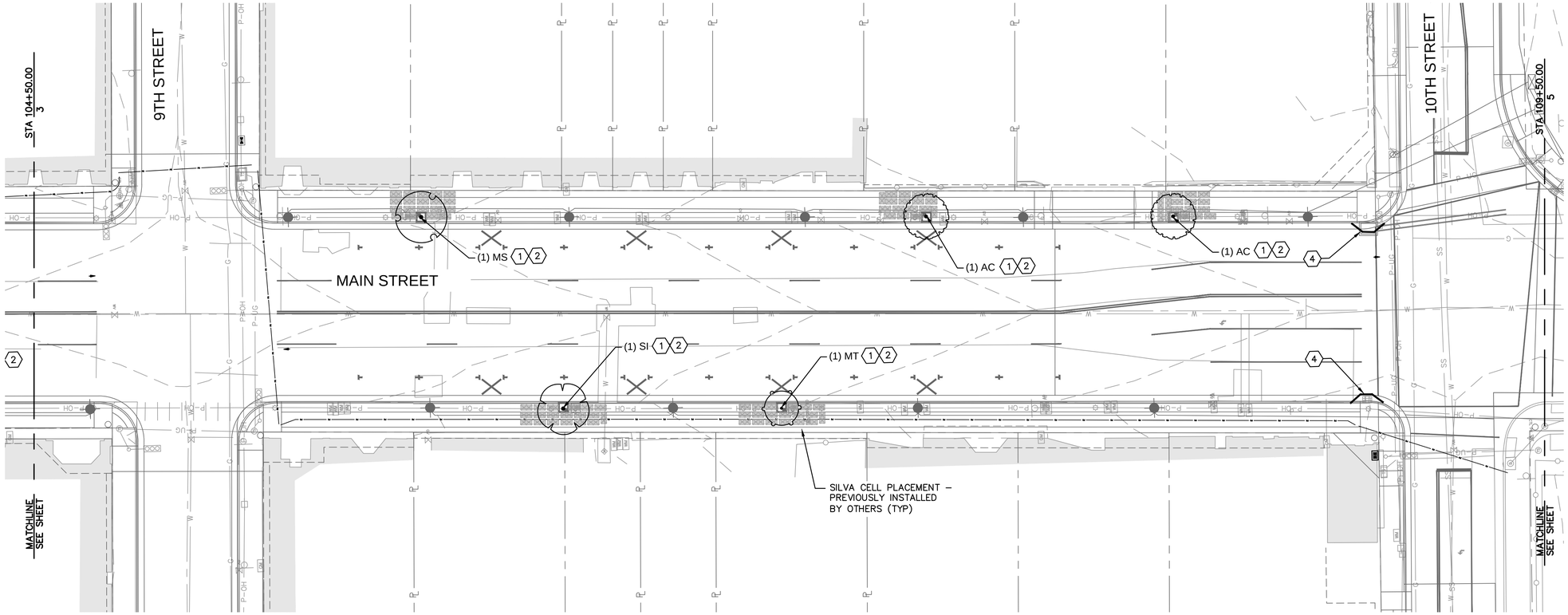
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2026

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drawing no.: L LSC 02300893
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SHEET
3 of 10

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PLANT SCHEDULE

| SYMBOL | CODE | BOTANICAL / COMMON NAME | SIZE | CONTAINER TYPE | REMARKS |
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DOWNTOWN LANDSCAPE PLAN - 2

MAIN STREET LANDSCAPE
8TH ST TO 15TH ST

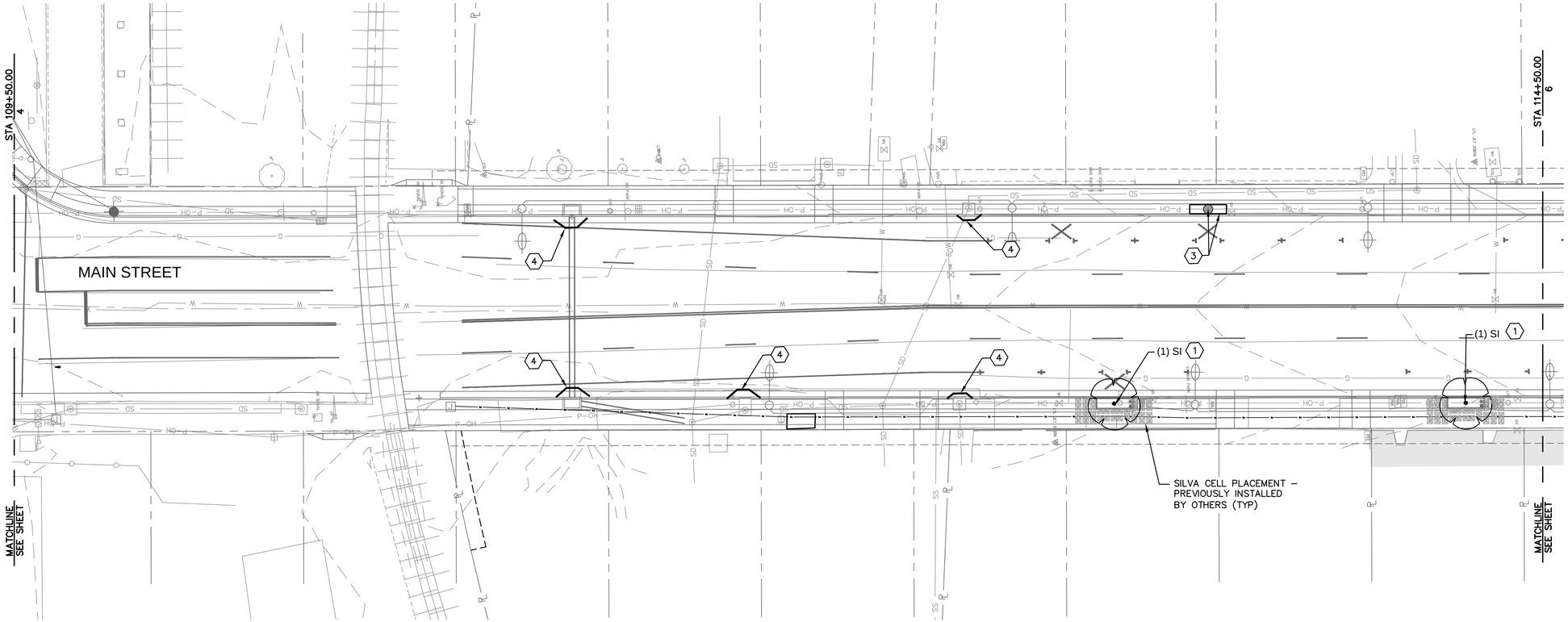
JOPLIN, MO

2026

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checked by: RAR
approved by: JKE
QA/QC by: JKE
project no.: 023-00893
drawing no.: L LSC 02300893
date: 4.20.2026



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4. INLET PROTECTION (REFER TO DETAILS ON SHEET 9)

PLANT SCHEDULE

| SYMBOL | CODE | BOTANICAL / COMMON NAME | SIZE | CONTAINER TYPE | REMARKS |
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| ORNAMENTAL TREES | | | | | |
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MIDTOWN LANDSCAPE PLAN - 3

MAIN STREET LANDSCAPE
8TH ST TO 15TH ST

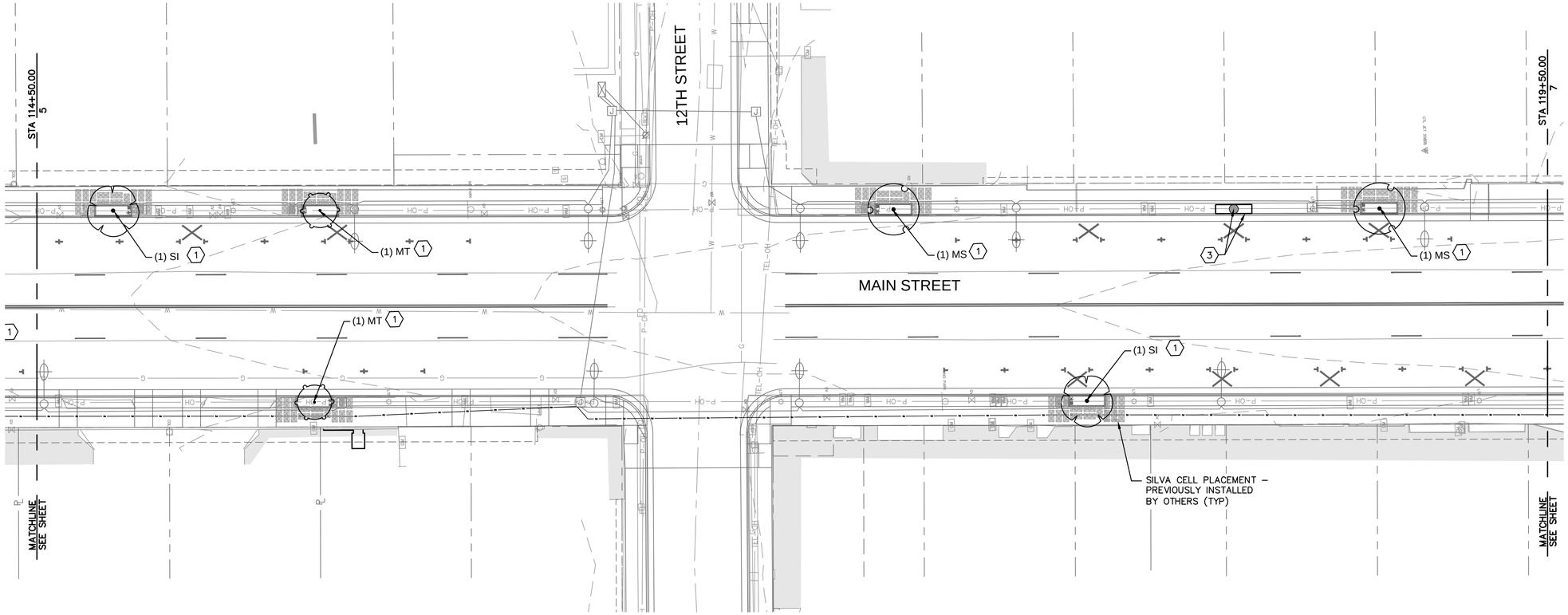
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PLANT SCHEDULE

| SYMBOL | CODE | BOTANICAL / COMMON NAME | SIZE | CONTAINER TYPE | REMARKS |
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| ORNAMENTAL TREES | | | | | |
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MIDTOWN LANDSCAPE PLAN - 4

MAIN STREET LANDSCAPE
8TH ST TO 15TH ST

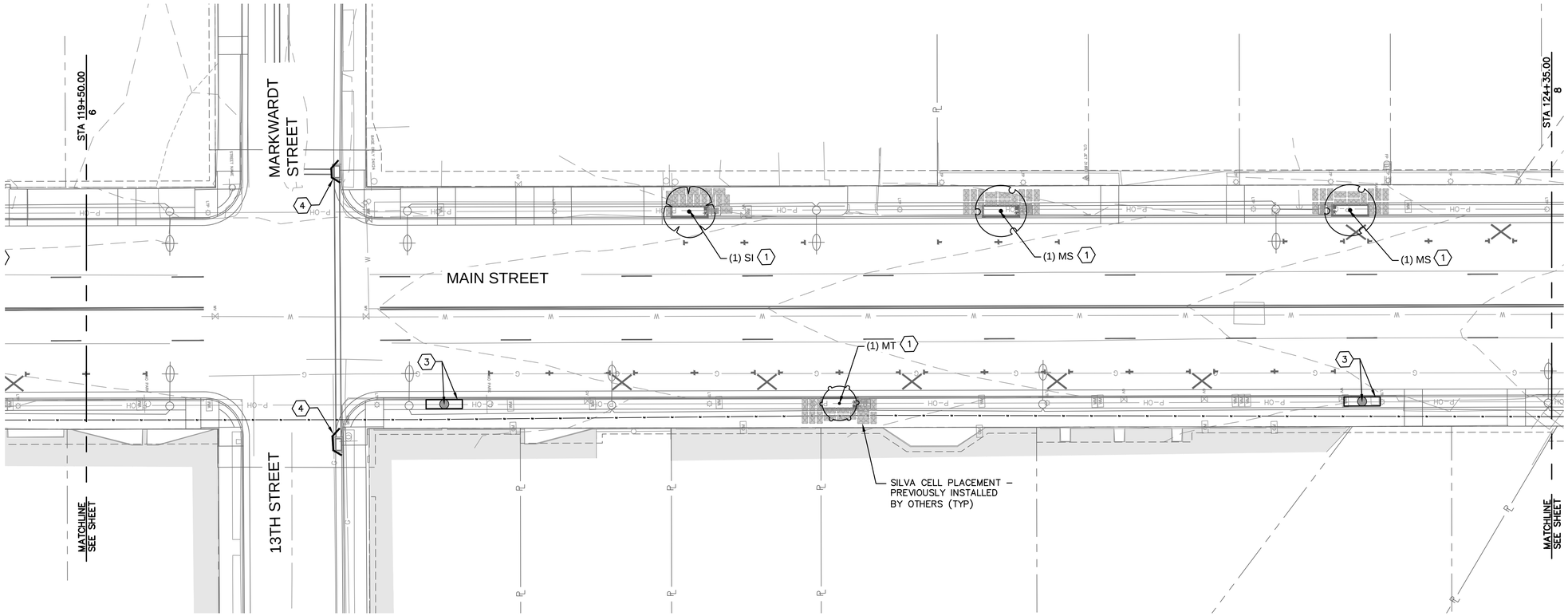
JOPLIN, MO

2026

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checked by: RAR
approved by: JKE
QA/QC by: JKE
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PLANT SCHEDULE

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MIDTOWN LANDSCAPE PLAN - 5

MAIN STREET LANDSCAPE
8TH ST TO 15TH ST

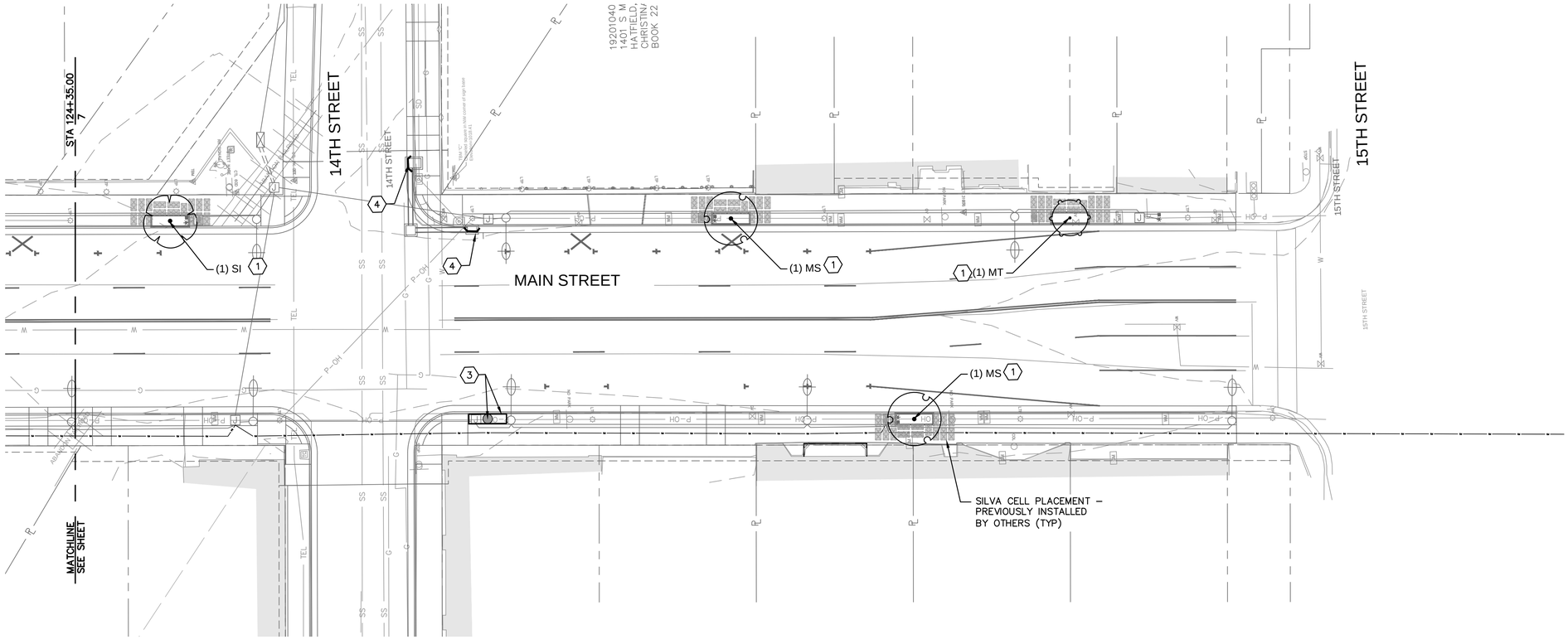
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PLANT SCHEDULE

| SYMBOL | CODE | BOTANICAL / COMMON NAME | SIZE | CONTAINER TYPE | REMARKS |
|---|---|---|---|---|---|
| ORNAMENTAL TREES | | | | | |
| | AC | AMELANCHIER CANADENSIS<br>DOWNY SERVICEBERRY | 2" CAL. | B&B | NON–FRUIT |
| | MS | MALUS X 'SPRING SNOW'<br>SPRING SNOW CRABAPPLE | 2" CAL. | B&B | NON–FRUIT |
| | MT | MALUS X 'SUTYZAM'<br>SUGAR TYME CRABAPPLE | 2" CAL. | B&B | NON–FRUIT |
| | SI | SYRINGA RETICULATA 'IVORY SILK'<br>IVORY SILK JAPANESE TREE LILAC | 2" CAL. | B&B | |

CALIPER SHALL BE MEASURED 4–FEET ABOVE FINISHED GRADE


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Joplin, MO 64801
TEL 417.781.0643
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|---|---|---|---|
| | | RAR | |

MIDTOWN LANDSCAPE PLAN - 6

MAIN STREET LANDSCAPE
8TH ST TO 15TH ST

JOPLIN, MO

2026

drawn by: RAR
checked by: RAR
approved by: JKE
QA/QC by: JKE
project no.: 023-00893
drawing no.: L_LSC_02300893
date: 4.20.2026

SHEET
8 of 10


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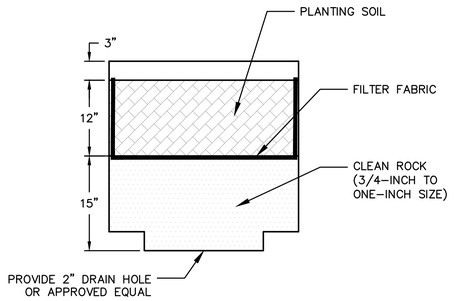
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| PLANT SCHEDULE | | | | | |
|---|---|---|---|---|---|
| SYMBOL | CODE | BOTANICAL / COMMON NAME | SIZE | CONTAINER TYPE | REMARKS |
| ORNAMENTAL TREES | | | | | |
| | AC | AMELANCHIER CANADENSIS<br>DOWNY SERVICEBERRY | 2" CAL. | B&B | NON-FRUIT |
| | MS | MALUS X 'SPRING SNOW'<br>SPRING SNOW CRABAPPLE | 2" CAL. | B&B | NON-FRUIT |
| | MT | MALUS X 'SUTYZAM'<br>SUGAR TYME CRABAPPLE | 2" CAL. | B&B | NON-FRUIT |
| | SI | SYRINGA RETICULATA 'IVORY SILK'<br>IVORY SILK JAPANESE TREE LILAC | 2" CAL. | B&B | |

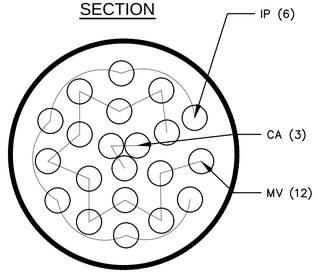
CALIPER SHALL BE MEASURED 4-FEET ABOVE FINISHED GRADE

| PLANT SCHEDULE - ANNUALS | | | | | |
|---|---|---|---|---|---|
| SYMBOL | CODE | BOTANICAL / COMMON NAME | SIZE | CONTAINER TYPE | REMARKS |
| ANNUALS | | | | | |
| | CA | CORDYLINE AUSTRALIS 'RED STAR'<br>CABBAGE PALM | 1 QT. | CONTAINER | RED LEAF |
| | IP | IPOMOEA SWEET CAROLINE SWEETHEART LIME<br>SWEET POTATO VINE | 1 QT. | CONTAINER | LIME GREEN LEAF |
| | MV | MANDEVILLA SPP.<br>PINK MANDEVILLA | 2 QT. | CONTAINER | PINK FLOWER |

ITEMS INSTALLED BY LANDSCAPE CONTRACTOR




SECTION




PLAN

ANNUAL PLANTING FOR DECORATIVE PLANTER

SCALE: 1"=1'-0"

ITEMS INSTALLED BY STREETSCAPE CONTRACTOR

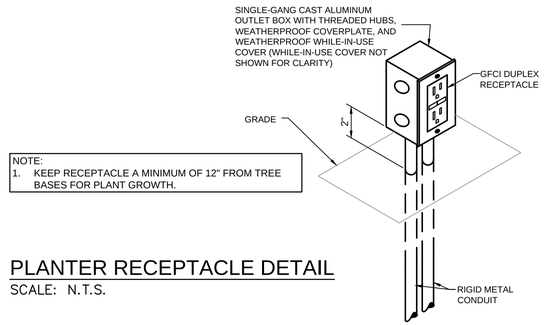
## ITEM "SPECIAL" DECORATIVE PLANTERS

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING, DELIVERING, APPLYING, ALL MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE DECORATIVE PLANTERS AS SPECIFIED HEREIN.

THE DECORATIVE PLANTER MATERIAL SHALL BE CONCRETE AND INCLUDE ALL FURNISHINGS, MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE PLANTER AS SPECIFIED. CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR PROPER INSTALLATION OF THE PLANTERS WITH THE WORK OF OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING TEMPLATES AND/OTHER INSTALLATION MATERIAL FROM MANUFACTURER TO INSURE PROPER INSTALLATION.

THE PLANTER SHALL BE BARKMAN CONCRETE NEWPORT PLANTER. 36"W.x30"HT. MODEL NUMBER #105418. 2" DRAIN HOLE SHALL BE PROVIDED IN CENTER OF PLANTER, OR APPROVED EQUAL. COLOR TO MATCH EXISTING STREETSCAPE PLANTERS. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT THE MANUFACTURERS SHOP DRAWINGS FOR THIS ITEM TO THE CITY FOR APPROVAL PRIOR TO ORDERING THE PLANTERS.

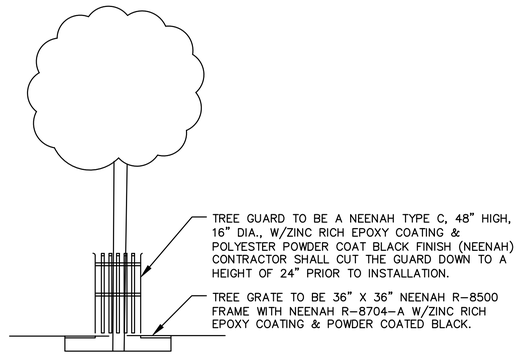
PAYMENT OF ITEM "SPECIAL" DECORATIVE PLANTER, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.




NOTE:
1. KEEP RECEPTACLE A MINIMUM OF 12" FROM TREE BASES FOR PLANT GROWTH.

PLANTER RECEPTACLE DETAIL

SCALE: N.T.S.




TREE GRATE/TREE GUARD - DOWNTOWN

SCALE: N.T.S.

## ITEM "SPECIAL" TREE GUARD, 48" HIGH, 16" DIAMETER, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING, DELIVERING, APPLYING, ALL MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE TREE GUARD AS INDICATED AND SPECIFIED.

THE TREE GUARD MATERIALS SHALL BE, CAST FRAMES, GRATES, AND FASTENERS PER NEENAH SPECIFICATIONS, PROVIDE ALL FURNISHINGS, MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE TREE GUARD AS INDICATED AND SPECIFIED. CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR PROPER INSTALLATION OF TREE GUARD WITH THE WORK OF OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING TEMPLATES AND/OTHER INSTALLATION MATERIALS FROM MANUFACTURER TO INSURE PROPER INSTALLATION.

THE TREE GUARD SHALL BE A NEENAH TYPE C, 48" HIGH, 16" DIAMETER WITH ZINC RICH EPOXY COATING AND POLYESTER POWDER COATED BLACK FINISH, OR APPROVED EQUAL.THE CONTRACTOR SHALL SUBMIT THE MANUFACTURERS SHOP DRAWINGS FOR THIS ITEM TO THE CITY FOR APPROVAL PRIOR TO ORDERING THE GUARD.

PAYMENT OF ITEM "SPECIAL" TREE GUARD, 48" HIGH, AS PER PLANS, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM "SPECIAL" TREE GUARD AND ITEM "SPECIAL" TREE GRATE AND FRAME WILL BE BID TOGETHER AS ONE BID ITEM.

## ITEM "SPECIAL" TREE GRATE, 36", AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING, DELIVERING, APPLYING, ALL MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE TREE FRAME AND GRATE AS INDICATED AND SPECIFIED.

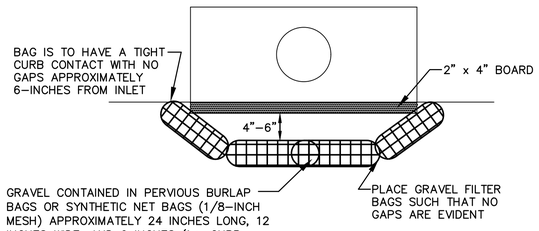
THE TREE FRAME AND GRATE MATERIALS SHALL BE, CAST FRAMES, GRATES, AND FASTENERS PROVIDE ALL FURNISHINGS, MATERIALS, ASSEMBLY, LABOR AND EQUIPMENT NECESSARY TO PROPERLY COMPLETE THE TREE GRATE AS INDICATED AND SPECIFIED. CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR PROPER INSTALLATION OF TREE GRATES WITH THE WORK OF OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING TEMPLATES AND/OTHER INSTALLATION MATERIALS FROM MANUFACTURER TO INSURE PROPER INSTALLATION.

THE TREE GRATE FRAME SHALL BE A NEENAH R-8500 WITH A ZINC RICH EPOXY COATING AND POLYESTER POWDER COATED BLACK FINISH, OR APPROVED EQUAL. THE TREE GRATE SHALL BE A NEENAH R-8704-A W/LIGHT OPENINGS, WITH A ZINC RICH EPOXY COATING AND POLYESTER POWDER COATED BLACK FINISH, OR APPROVED EQUAL. THE CONTRACTOR SHALL SUBMIT THE MANUFACTURERS SHOP DRAWINGS FOR THIS ITEM TO THE CITY FOR APPROVAL PRIOR TO ORDERING THE PLANTERS.

PAYMENT OF ITEM "SPECIAL" TREE GRATE, 36" SQUARE, AS PER PLANS, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

NOTE:

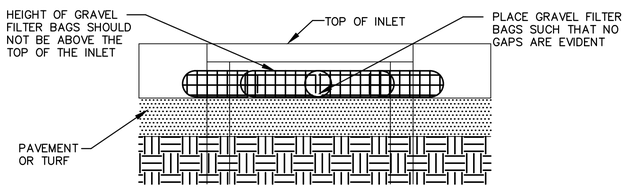
EROCO SILT SOXX AND FILTER RING, OR EQUAL, MAY BE USED IN LIEU OF SILT FENCE, AND GRAVEL FILTER BAGS.




TOP VIEW

*5/8" CRUSHED LIMESTONE

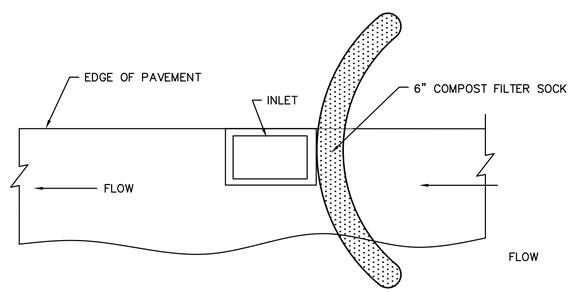
BAGS SHALL BE INSPECTED AND REPLACED AS NEEDED.




FRONT VIEW

GRAVEL FILTER BAG AT CURB INLET DETAIL

NOT TO SCALE




TYPICAL PROTECTION FOR INLET ON GRADE

COMPOST FILTER SOCK AT CURB INLET DETAIL

NOT TO SCALE

**CURB INLET CHECK DETAILS**

NOT TO SCALE

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REVISIONS

LANDSCAPE DETAILS

MAIN STREET LANDSCAPE
8TH ST TO 15TH ST

2026

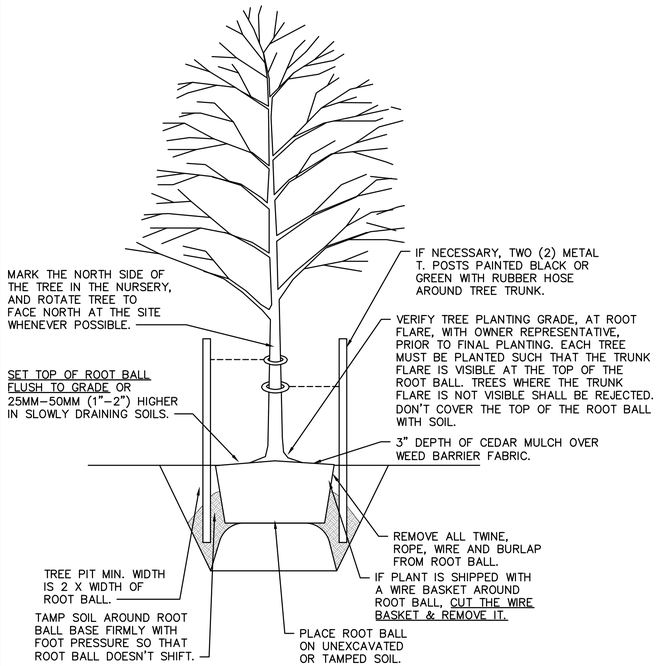
JOPLIN, MO

| | |
|---|---|
| drawn by: | RAR |
| checked by: | RAR |
| approved by: | JKE |
| QA/QC by: | JKE |
| project no.: | 023-00893 |
| drawing no.: | L_DTL_02300893 |
| date: | 4.20.2026 |

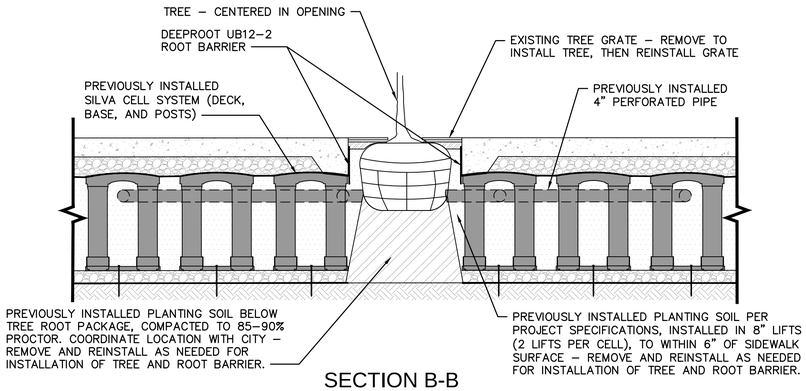
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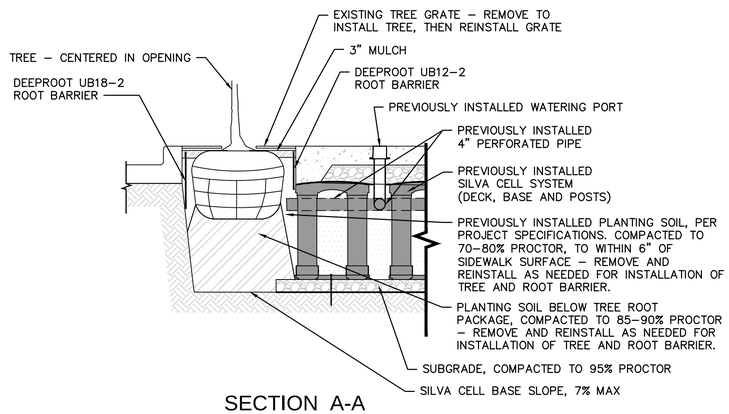
NOTES:
1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
2. SOAK GENEROUSLY TO COMPACT AND SETTLE
3. MINIMUM ROOT SPREAD TO BE IN ACCORDANCE WITH AAN STANDARDS
4. MAKE SURE ROOTS DO NOT DRY OUT DURING INSTALLATION
5. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.



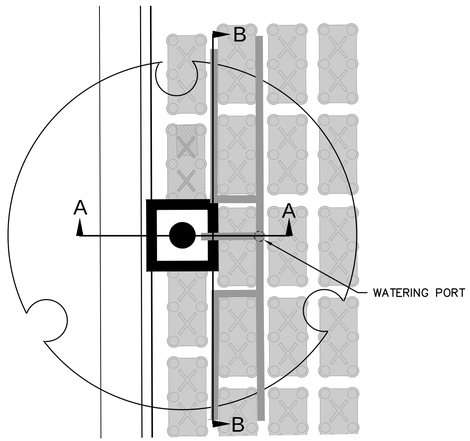

## DECIDUOUS TREE PLANTING DETAIL
SCALE: N.T.S.




## SECTION B-B
EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE

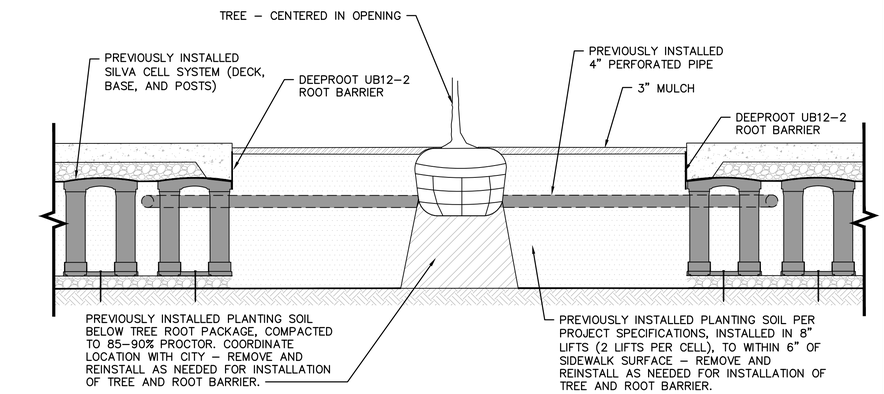



## SECTION A-A
EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE

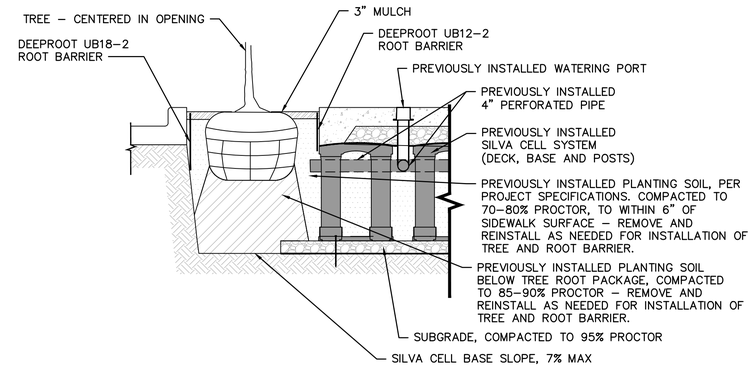



PLAN

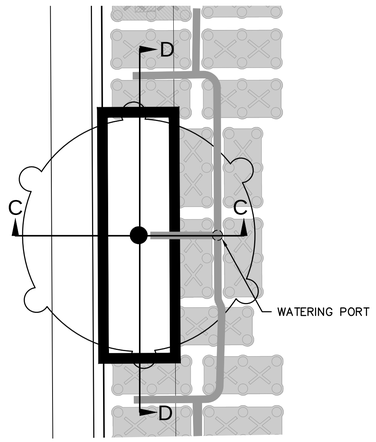
## DECIDUOUS TREE PLANTING IN SILVA CELL DETAIL - DOWNTOWN
SCALE: N.T.S. EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE




## SECTION D-D
EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE




## SECTION C-C
EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE




PLAN

## DECIDUOUS TREE PLANTING IN SILVA CELL DETAIL - MIDTOWN
SCALE: N.T.S. EXAMPLE SILVA CELL LAYOUT - VARIES PER TREE

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