# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

# PLANS FOR PROPOSED STATE HIGHWAY SULLIVAN COUNTY

## DESIGN DESIGNATION

A.A.D.T. – 2018 = 2,150
A.A.D.T. – 2038 = 3,772
D.H.V. = 11%
T = 8%
V = 40 MPH

FUNCTIONAL CLASSIFICATION– PRINCIPAL ARTERIAL

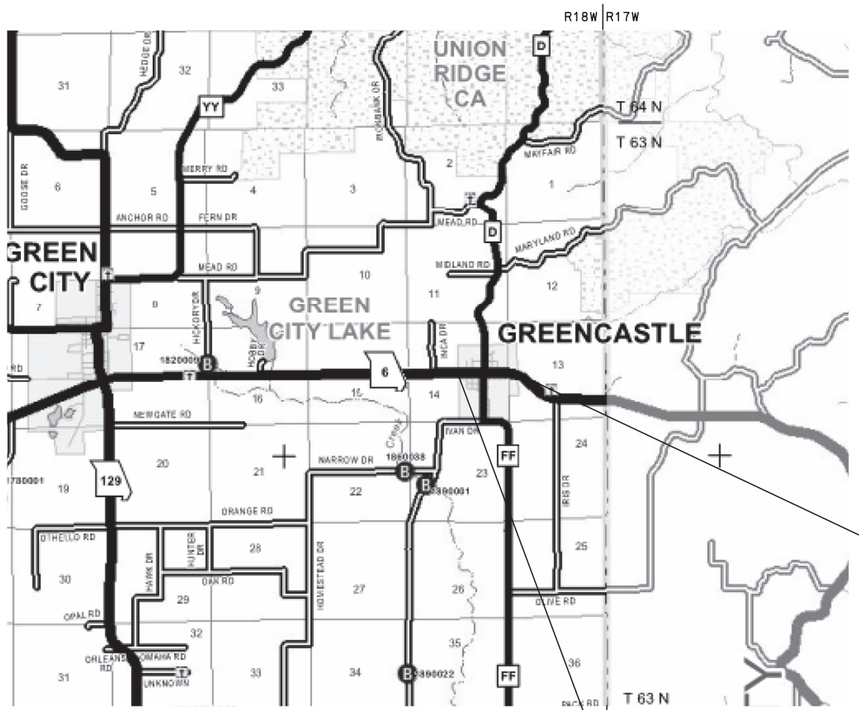
TEMPORARY EASEMENTS
PERMANENT EASEMENTS

## CONVENTIONAL SYMBOLS
(USED IN PLANS)

| | EXISTING | NEW |
|---|---|---|
| BUILDINGS AND STRUCTURES | | |
| GUARD RAIL | | |
| GUARD CABLE | | |
| CONCRETE RIGHT-OF-WAY MARKER | | |
| STEEL RIGHT-OF-WAY MARKER | | |
| LOCATION SURVEY MARKER | | |
| UTILITIES | | |
| FIBER OPTICS | –FO– | –FO– |
| OVERHEAD CABLE TV | –OTV– | –OTV– |
| UNDERGROUND CABLE TV | –UTV– | –UTV– |
| OVERHEAD TELEPHONE | –OT– | –OT– |
| UNDERGROUND TELEPHONE | –UT– | –UT– |
| OVERHEAD POWER | –OE– | –OE– |
| UNDERGROUND POWER | –UE– | –UE– |
| SANITARY SEWER | –S– | –S– |
| STORM SEWER | –SS– | –SS– |
| GAS | –G– | –G– |
| WATER | –W– | –W– |
| MANHOLE | SAN | |
| FIRE HYDRANT | HYD | |
| WATER VALVE | WV | |
| WATER METER | WM | |
| DROP INLET | DI | |
| DITCH BLOCK | | |
| GROUND MOUNTED SIGN | SIGN | |
| LIGHT POLE | | |
| H-FRAME POWER POLE | | |
| TELEPHONE PEDESTAL | PED | |
| FENCE | | |
| CHAIN LINK | V | |
| WOVEN WIRE | X | |
| GATE POST | | |
| BENCHMARK | BM | |

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

KEY MAP
SHOWING LOCATION OF SULLIVAN COUNTY




1/2 0 1 2
SCALE IN MILES

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

## INDEX OF SHEETS


| DESCRIPTION | SHEET NUMBER |
|---|---|
| TITLE SHEET | 1 |
| TYPICAL SECTIONS (TS) (3 SHEETS) | 2 |
| QUANTITIES (QU) (10 SHEETS) | 3 |
| PLAN-PROFILE (PP) | 4–11 |
| RIGHT OF WAY (RW) | 12–19 |
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| COORDINATE POINTS (CP) | 21 |
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| PAVEMENT MARKING (PM) | 50–52 |
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| CROSS SECTIONS (XS) | 1–35 |


## LENGTH OF PROJECT

| | | |
|---|---|---|
| BEGINNING OF PROJECT | STA. 861+19.05 | |
| END OF PROJECT | STA. 890+29.05 | |
| APPARENT LENGTH | 2,910.00 | FEET |
| EQUATIONS AND EXCEPTIONS: | NONE | |
| TOTAL CORRECTIONS | 0.00 | FEET |
| NET LENGTH OF PROJECT | 2,910.00 | FEET |
| STATE LENGTH | 0.551 | MILES |

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/12/2019
ROUTE: 6 | STATE: MO
DISTRICT: NW | SHEET NO.: 1
COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

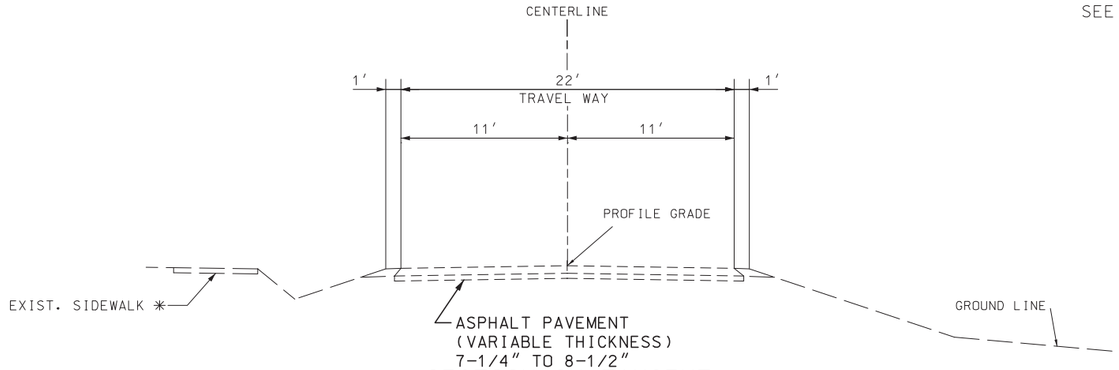
MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

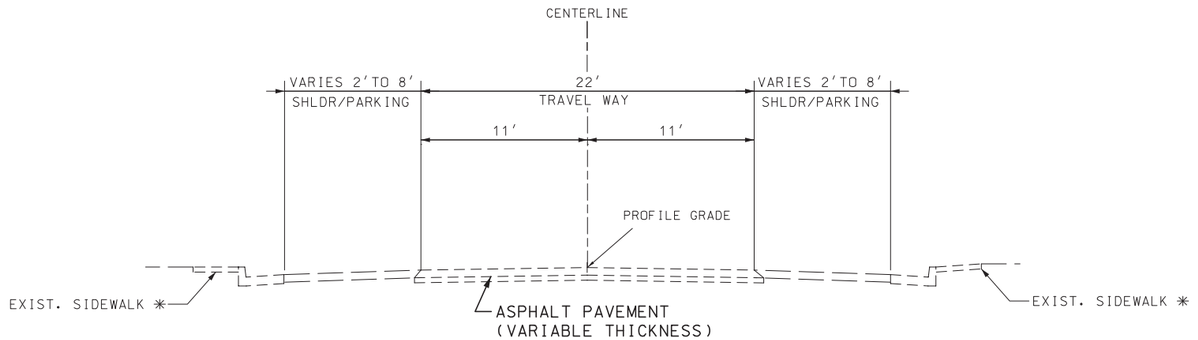
PAVEMENT HISTORY
GRADED EARTH 1931
22′ OIL AGGR. 1946
22′ BIT. MAT 1972
22′ BIT. MAT 1975
22′ BIT. MAT 1987
22′ SURF.LEVEL 1995
22′ SURF.LEVEL 2008

FACTORS
BP-1 PG 64-22 1.934 TONS/CY
TACK(NEW ASPHALT) 0.05 GAL/SY
TACK( EXIST. ASPH) 0.08 GAL/SY
TACK( MILLED SURFACE) 0.10 GAL/SY

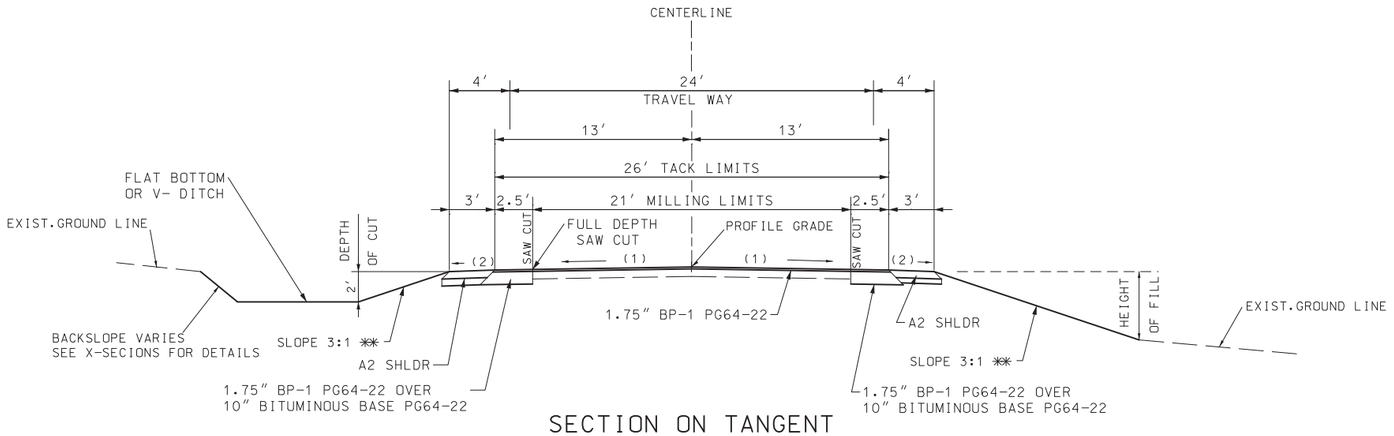
SAFETY EDGE REQUIRED ON ALL SHOULDERS 4′ WIDE OR LESS.
SEE STD PLAN 401.00 FOR CONSTRUCTION DETAILS."




SECTION ON TANGENT
EXIST TYPICAL SECTION RTE. 6
STA. 861+19.05 TO STA. 873+10.00
STA. 880+25.00 TO STA. 890+29.05




SECTION ON TANGENT
EXIST TYPICAL SECTION RTE. 6
STA. 873+10.00 TO STA. 880+25.00




SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE. 6
STA. 861+19.05 TO STA. 865+95.00 (LT) & STA. 866+17.00 (RT)
STA. 890+13.00 (LT) & STA. 889+99.26 (RT) TO STA. 890+29.05

✳ - EXISTING SIDEWALK WIDTH AND LOCATION VARIES.

✳✳ SEE CROSS SECTIONS FOR SLOPE INFORMATION

CROSS SLOPE

(1) 2.0%
(2) 2.0% FOR PAVED SHOULDERS

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.

SEE STANDARDS 608.10 FOR SIDEWALK DETAILS

NOT TO SCALE

# TYPICAL SECTIONS

SHEET 1 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/13/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 2
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.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FACTORS
BP-1 PG 64-22 1.934 TONS/CY
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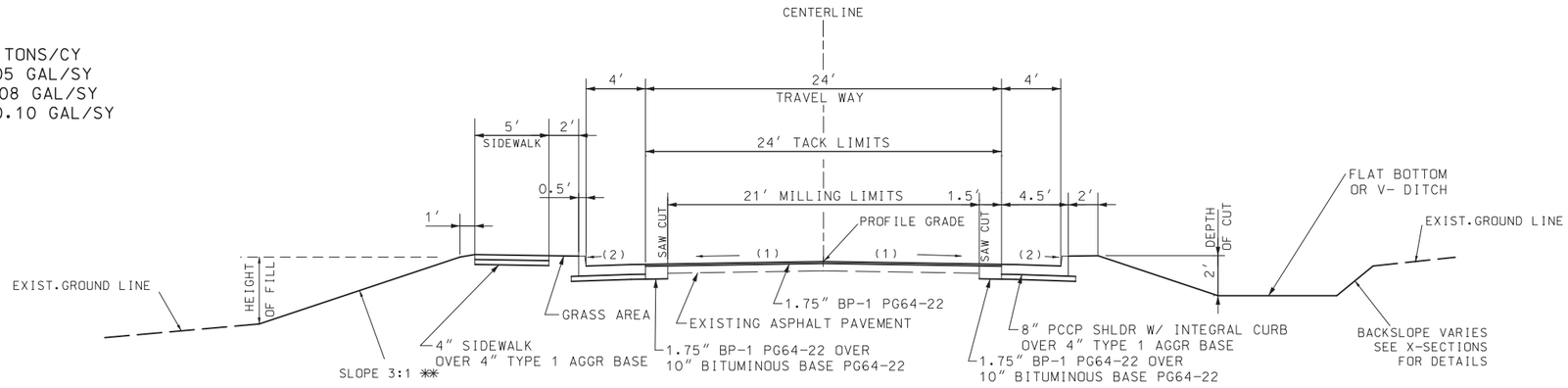
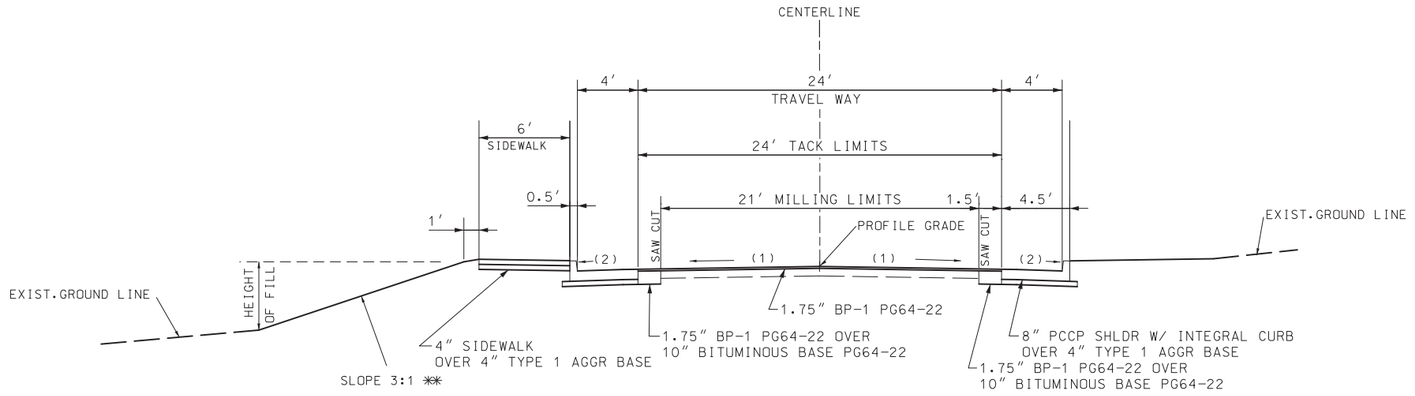



CROSS SLOPE

(1) 2.0%
(2) 2.0% FOR PAVED SHOULDERS

## PROPOSED SECTION ON TANGENT
TYPICAL SECTION RTE. 6
STA. 865+95.00 TO STA. 866+17.00

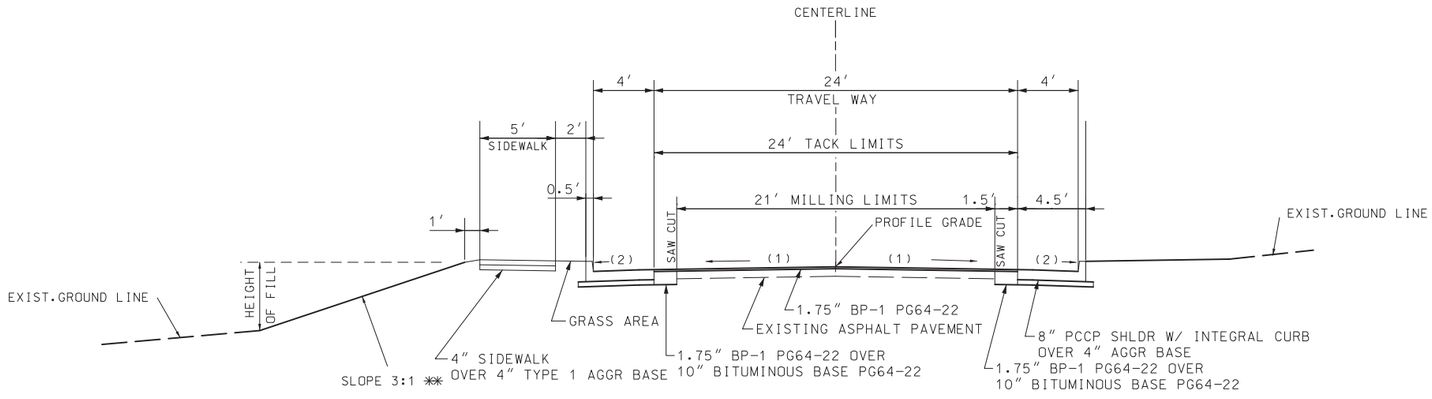
SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.
SEE STANDARDS 608.10 FOR SIDEWALK DETAILS




* - EXISTING SIDEWALK WIDTH AND LOCATION VARIES.

** - SEE CROSS SECTIONS FOR SLOPE INFORMATION

## PROPOSED SECTION ON TANGENT
TYPICAL SECTION RTE. 6
STA. 866+17.00 TO STA. 869+25.00




NOT TO SCALE

## PROPOSED SECTION ON TANGENT
TYPICAL SECTION RTE. 6
STA. 869+25.00 TO STA. 872+55.95 (LT) & STA. 871+95.00 (RT)

# TYPICAL SECTIONS

SHEET 2 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/13/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 2
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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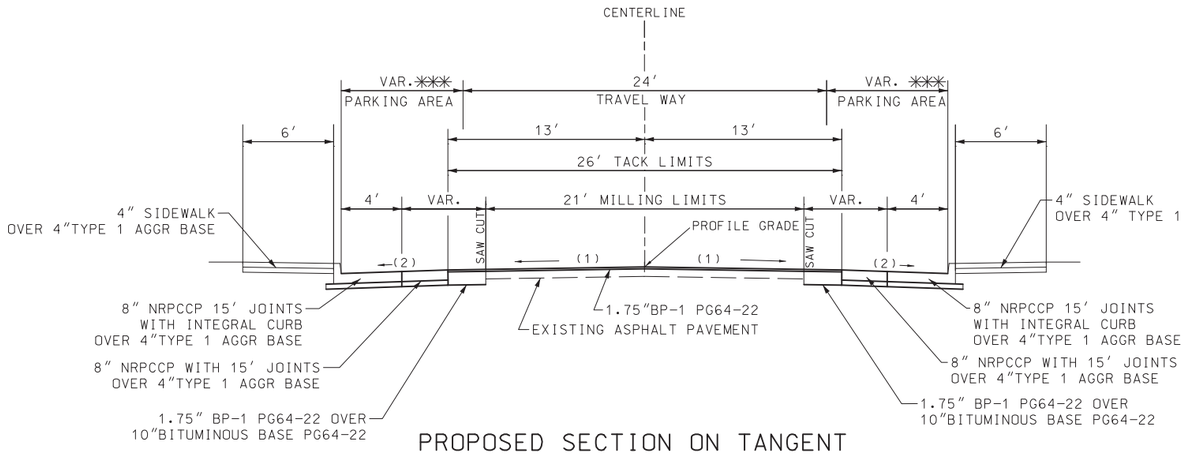



## PROPOSED SECTION ON TANGENT

TYPICAL SECTION RTE. 6

STA. 873+61.27 (LT) & STA. 873+35.00 (RT) TO STA. 874+00.00

STA. 878+50.00 TO STA. 879+60.00 (LT) & 880+74.33 (RT)

CROSS SLOPE

(1) 2.0%
(2) 2.0% FOR PAVED SHOULDERS

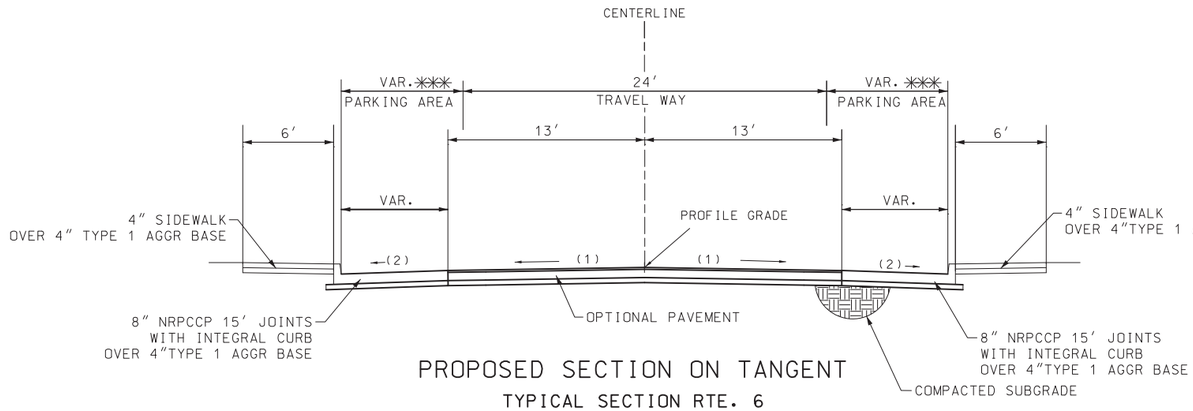
SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.

SEE STANDARD 608.10 FOR SIDEWALK DETAILS

✱ – EXISTING SIDEWALK WIDTH AND LOCATION VARIES.

✱✱ – SEE CROSS SECTIONS FOR SLOPE INFORMATION.

✱✱✱ – PARKING AREA WIDTH VARIES FROM 8.5′ TO 11′. SEE PLANS FOR PARKING AREA LOCATIONS.

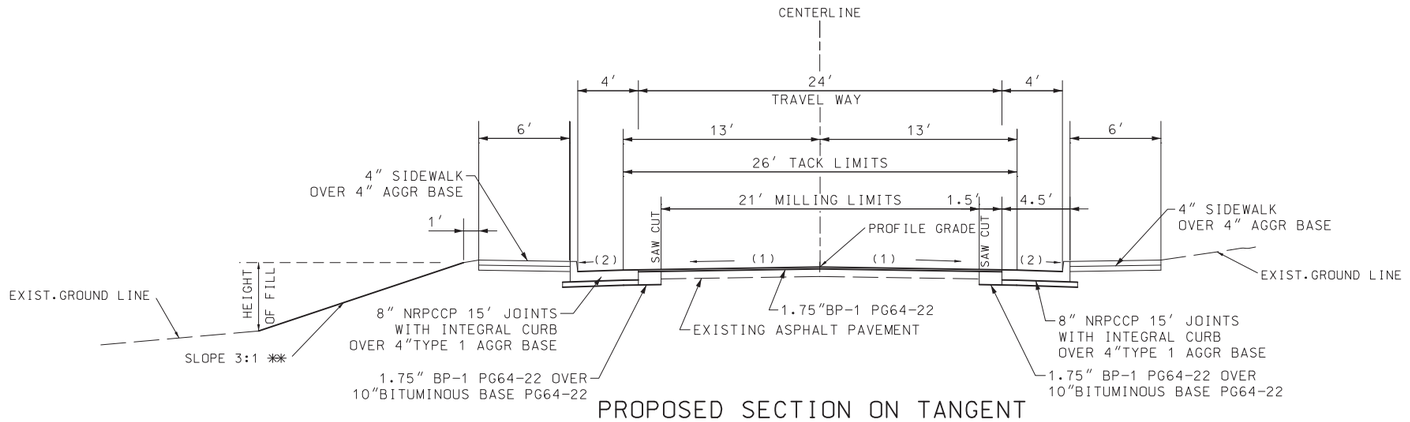



## PROPOSED SECTION ON TANGENT

TYPICAL SECTION RTE. 6

STA. 874+00.00 TO STA. 878+50.00

OPTIONAL PAVEMENT
ASPHALT PAVEMENT:
1.50″ BP1 PG 64-22 OVER
8.5″ BUTUMINOUS BASE PG 64-22 OVER
4″ TYPE 1 AGGREGATE BASE
PCC PAVEMENT:
8″ NONREINFORCED PCCP 15′ JOINTS OVER
4″ TYPE 1 AGGREGATE BASE
AGGREGATE BASE CAN BE OMITTED
IF PAVEMENT THICKNESS IS INCREASED 2″.




## PROPOSED SECTION ON TANGENT

TYPICAL SECTION RTE. 6

STA. 872+55.95 (LT) & STA. 871+95.00 (RT) TO STA. 873+61.27 (LT) & STA. 873+35.00 (RT)

STA. 879+60.00 (LT) & STA. 880+74.33 (RT) TO STA. 890+13.00 (LT) & STA. 889+99.26 (RT)

NOT TO SCALE

# TYPICAL SECTIONS

SHEET 3 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/27/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 2
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

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## REMOVAL OF IMPROVEMENTS

| RTE. | STA. | STA. | LOCATION | DESCRIPTION | AMOUNT | UNIT | REMARKS |
|---|---|---|---|---|---|---|---|
| 6 | 861+00.00 | 863+32.65 | LEFT | SIDEWALK PAVEMENT | 37.0 | SY | BEGIN PROJECT THROUGH IVIE STREET |
| 6 | 863+32.64 | 866+20.23 | LEFT | SIDEWALK PAVEMENT | 78.2 | SY | IVIE STREET THROUGH CLEVELAND STREET |
| 6 | 863+32.65 | 866+20.24 | LEFT | CULVERT PIPE | 3.0 | EA | IVIE STREET THROUGH CLEVELAND STREET |
| 6 | 863+32.66 | 866+20.25 | LEFT | SAWCUT | 3.0 | LF | IVIE STREET THROUGH CLEVELAND STREET |
| 6 | 863+32.67 | 866+20.26 | CENTER | CULVERT PIPE | 2.0 | EA | IVIE STREET THROUGH CLEVELAND STREET |
| 6 | 863+32.68 | 866+20.27 | RIGHT | CULVERT PIPE | 2.0 | EA | IVIE STREET THROUGH CLEVELAND STREET |
| 6 | 866+20.17 | 869+10.86 | LEFT | SIDEWALK PAVEMENT | 108.3 | SY | CLEVELAND STREET THROUGH OKLAHOMA STREET |
| 6 | 866+20.18 | 869+10.87 | LEFT | CULVERT PIPE | 1.0 | EA | CLEVELAND STREET THROUGH OKLAHOMA STREET |
| 6 | 866+20.19 | 869+10.88 | LEFT | SAWCUT | 11.0 | LF | CLEVELAND STREET THROUGH OKLAHOMA STREET |
| 6 | 869+10.93 | 871+94.63 | LEFT | SIDEWALK PAVEMENT | 82.9 | LF | OKLAHOMA STREET THROUGH MISSOURI STREET |
| 6 | 869+10.94 | 871+94.64 | LEFT | CULVERT PIPE | 1.0 | EA | OKLAHOMA STREET THROUGH MISSOURI STREET |
| 6 | 869+10.95 | 871+94.65 | LEFT | SAWCUT | 11.5 | LF | OKLAHOMA STREET THROUGH MISSOURI STREET |
| 6 | 869+10.96 | 871+94.66 | RIGHT | CULVERT PIPE | 3.0 | EA | OKLAHOMA STREET THROUGH MISSOURI STREET |
| 6 | 871+94.63 | 875+05.21 | LEFT | SIDEWALK PAVEMENT | 65.5 | SY | MISSOURI STREET THROUGH ROUTE FF |
| 6 | 871+94.64 | 875+05.22 | LEFT | CULVERT PIPE | 2.0 | EA | MISSOURI STREET THROUGH ROUTE FF |
| 6 | 871+94.65 | 875+05.23 | LEFT | SAWCUT | 3.0 | LF | MISSOURI STREET THROUGH ROUTE FF |
| 6 | 871+94.66 | 875+05.24 | LEFT | STREET PAVEMENT | 233.8 | SY | MISSOURI STREET THROUGH ROUTE FF |
| 6 | 871+94.67 | 875+05.25 | RIGHT | SIDEWALK PAVEMENT | 98.7 | SY | MISSOURI STREET THROUGH ROUTE FF |
| 6 | 871+94.68 | 875+05.26 | RIGHT | CULVERT PIPE | 1.0 | EA | MISSOURI STREET THROUGH ROUTE FF |
| 6 | 871+94.69 | 875+05.27 | RIGHT | SAWCUT | 5.5 | LF | MISSOURI STREET THROUGH ROUTE FF |
| 6 | 871+94.70 | 875+05.28 | RIGHT | STREET PAVEMENT | 296.1 | SY | MISSOURI STREET THROUGH ROUTE FF |
| 6 | 871+94.71 | 875+05.29 | RIGHT | DRIVEWAYS | 34.6 | SY | MISSOURI STREET THROUGH ROUTE FF |
| 6 | 875+05.21 | 876+35.00 | LEFT | SIDEWALK PAVEMENT | 99.2 | SY | ROUTE FF THROUGH ROUTE D |
| 6 | 875+05.22 | 876+35.01 | LEFT | STREET PAVEMENT | 361.5 | SY | ROUTE FF THROUGH ROUTE D |
| 6 | 875+05.23 | 876+35.02 | LEFT | SAWCUT | 4.0 | LF | ROUTE FF THROUGH ROUTE D |
| 6 | 875+05.23 | 876+35.02 | RIGHT | SIDEWALK PAVEMENT | 62.3 | SY | ROUTE FF THROUGH ROUTE D |
| 6 | 875+05.24 | 876+35.03 | RIGHT | STREET PAVEMENT | 326.8 | SY | ROUTE FF THROUGH ROUTE D |
| 6 | 875+05.25 | 876+35.04 | RIGHT | SAWCUT | 6.0 | LF | ROUTE FF THROUGH ROUTE D |
| 6 | 876+35.01 | 878+26.38 | LEFT | SIDEWALK PAVEMENT | 68.9 | SY | ROUTE D THROUGH FRANKLIN STREET |
| 6 | 876+35.02 | 878+26.39 | LEFT | DRIVEWAYS | 80.1 | SY | ROUTE D THROUGH FRANKLIN STREET |
| 6 | 876+35.03 | 878+26.40 | LEFT | STREET PAVEMENT | 497.0 | SY | ROUTE D THROUGH FRANKLIN STREET |
| 6 | 876+35.04 | 878+26.41 | RIGHT | SIDEWALK PAVEMENT | 139.3 | SY | ROUTE D THROUGH FRANKLIN STREET |
| 6 | 876+35.05 | 878+26.42 | RIGHT | DRIVEWAYS | 30.8 | SY | ROUTE D THROUGH FRANKLIN STREET |
| 6 | 876+35.06 | 878+26.43 | RIGHT | STREET PAVEMENT | 449.5 | SY | ROUTE D THROUGH FRANKLIN STREET |
| 6 | 878+26.37 | 879+55.95 | LEFT | SIDEWALK PAVEMENT | 57.4 | SY | FRANKLIN STREET THROUGH BROADWAY STREET |
| 6 | 878+26.38 | 879+55.96 | LEFT | DRIVEWAYS | 13.0 | SY | FRANKLIN STREET THROUGH BROADWAY STREET |
| 6 | 878+26.39 | 879+55.97 | LEFT | SAWCUT | 2.0 | LF | FRANKLIN STREET THROUGH BROADWAY STREET |
| 6 | 878+26.40 | 879+55.98 | LEFT | STREET PAVEMENT | 193.7 | SY | FRANKLIN STREET THROUGH BROADWAY STREET |
| 6 | 878+26.41 | 879+55.99 | RIGHT | SIDEWALK PAVEMENT | 35.5 | SY | FRANKLIN STREET THROUGH BROADWAY STREET |
| 6 | 878+26.42 | 879+55.100 | RIGHT | DRIVEWAYS | 27.8 | SY | FRANKLIN STREET THROUGH BROADWAY STREET |
| 6 | 878+26.43 | 879+55.101 | RIGHT | SAWCUT | 3.0 | LF | FRANKLIN STREET THROUGH BROADWAY STREET |
| 6 | 878+26.44 | 879+55.102 | RIGHT | STREET PAVEMENT | 192.6 | SY | FRANKLIN STREET THROUGH BROADWAY STREET |
| 6 | 879+55.95 | 881+20.80 | LEFT | SIDEWALK PAVEMENT | 125.7 | SY | BROADWAY STREET THROUGH JEFFERSON STREET |
| 6 | 879+55.96 | 881+20.81 | LEFT | CULVERT PIPE | 2.0 | EA | BROADWAY STREET THROUGH JEFFERSON STREET |
| 6 | 879+55.97 | 881+20.82 | LEFT | SAWCUT | 5.0 | LF | BROADWAY STREET THROUGH JEFFERSON STREET |
| 6 | 879+55.98 | 881+20.83 | RIGHT | SIDEWALK PAVEMENT | 41.3 | SY | BROADWAY STREET THROUGH JEFFERSON STREET |
| 6 | 879+55.99 | 881+20.84 | RIGHT | CULVERT PIPE | 1.0 | EA | BROADWAY STREET THROUGH JEFFERSON STREET |
| 6 | 879+55.100 | 881+20.85 | RIGHT | SAWCUT | 3.0 | LF | BROADWAY STREET THROUGH JEFFERSON STREET |
| 6 | 881+20.80 | 882+62.23 | LEFT | SIDEWALK PAVEMENT | 54.9 | SY | JEFFERSON STREET THROUGH CHESTNUT STREET |
| 6 | 881+20.81 | 882+62.24 | LEFT | CULVERT PIPE | 1.0 | EA | JEFFERSON STREET THROUGH CHESTNUT STREET |
| 6 | 881+20.82 | 882+62.25 | LEFT | SAWCUT | 3.0 | LF | JEFFERSON STREET THROUGH CHESTNUT STREET |
| 6 | 881+20.83 | 882+62.26 | RIGHT | SIDEWALK PAVEMENT | 41.8 | SY | JEFFERSON STREET THROUGH CHESTNUT STREET |
| 6 | 881+20.84 | 882+62.27 | RIGHT | SAWCUT | 4.5 | LF | JEFFERSON STREET THROUGH CHESTNUT STREET |
| 6 | 882+62.23 | 884+14.37 | LEFT | SIDEWALK PAVEMENT | 51.3 | SY | CHESTNUT STREET THROUGH LAFAYETTE STREET |
| 6 | 882+62.24 | 884+14.38 | LEFT | SAWCUT | 4.0 | LF | CHESTNUT STREET THROUGH LAFAYETTE STREET |
| 6 | 882+62.25 | 884+14.39 | CENTER | CULVERT PIPE | 1.0 | EA | CHESTNUT STREET THROUGH LAFAYETTE STREET |
| 6 | 882+62.26 | 884+14.40 | RIGHT | SIDEWALK PAVEMENT | 49.2 | SY | CHESTNUT STREET THROUGH LAFAYETTE STREET |
| 6 | 882+62.27 | 884+14.41 | RIGHT | CULVERT PIPE | 1.0 | EA | CHESTNUT STREET THROUGH LAFAYETTE STREET |
| 6 | 884+14.37 | 885+52.90 | LEFT | SIDEWALK PAVEMENT | 57.8 | SY | LAFAYETTE STREET THROUGH ERVIN STREET |
| 6 | 884+14.38 | 885+52.91 | LEFT | SAWCUT | 4.0 | LF | LAFAYETTE STREET THROUGH ERVIN STREET |
| 6 | 884+14.39 | 885+52.92 | RIGHT | SIDEWALK PAVEMENT | 54.4 | SY | LAFAYETTE STREET THROUGH ERVIN STREET |
| 6 | 885+52.90 | 887+04.02 | LEFT | SIDEWALK PAVEMENT | 50.6 | SY | URVIN STREET THROUGH WEBSTER STREET |
| 6 | 885+52.91 | 887+04.03 | RIGHT | SIDEWALK PAVEMENT | 14.3 | SY | URVIN STREET THROUGH WEBSTER STREET |
| 6 | 885+52.92 | 887+04.04 | RIGHT | CULVERT PIPE | 2.0 | EA | URVIN STREET THROUGH WEBSTER STREET |
| 6 | 887+04.02 | 900+00.00 | LEFT | SIDEWALK PAVEMENT | 92.2 | SY | WEBSTER STREET THROUGH END PROJECT |
| 6 | 887+04.03 | 900+00.01 | LEFT | SAWCUT | 3.5 | LF | WEBSTER STREET THROUGH END PROJECT |
| 6 | 887+04.04 | 900+00.02 | LEFT | CULVERT PIPE | 2.0 | EA | WEBSTER STREET THROUGH END PROJECT |
| 6 | 887+04.05 | 900+00.03 | CENTER | CULVERT PIPE | 1.0 | EA | WEBSTER STREET THROUGH END PROJECT |
| 6 | 887+04.06 | 900+00.04 | RIGHT | SIDEWALK PAVEMENT | 97.2 | SY | WEBSTER STREET THROUGH END PROJECT |
| 6 | 887+04.07 | 900+00.05 | RIGHT | CULVERT PIPE | 2.0 | EA | WEBSTER STREET THROUGH END PROJECT |
| | | | | TOTAL | 1 | | LUMP SUM |

## MAILBOX SUPPORTS AND RELOCATION

| ROUTE | STA. | LOCATION | DESCRIPTION | AMOUNT | UNIT | REMARKS |
|---|---|---|---|---|---|---|
| 6 | 863+36.22 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 863+37.82 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 863+60.66 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 865+93.98 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 865+96.12 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 865+96.71 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 865+98.82 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 868+80.81 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 868+82.72 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 868+83.91 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 868+85.08 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 869+34.37 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 873+76.11 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 873+79.42 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 873+82.48 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 879+13.52 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 880+02.58 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 881+24.31 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 882+38.12 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 882+38.59 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 882+40.53 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 882+42.78 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 882+86.60 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 884+03.79 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 887+08.56 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 887+09.29 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 889+40.01 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| 6 | 889+57.64 | LEFT | RELOCATE MAILBOX | 1.0 | EA | |
| | | TOTAL | | 28 | EA | |

| MOBILIZATION |
|---|
| TOTAL = 1 LUMP SUM |

| CONTRACTOR FURNISHED SURVEYING AND STAKING |
|---|
| TOTAL = 1 LUMP SUM |

## EARTHWORK

| ROUTE | STA. | STA. | CLASS A EXCAVATION CUBIC YARDS | COMPACTING EMBANKMENT CUBIC YARDS | REMARKS |
|---|---|---|---|---|---|
| 6 | 861+19.05 | 874+00.00 | 722 | 892 | |
| 6 | 874+00.00 | 878+50.00 | 702 | 72 | |
| 6 | 878+50.00 | 890+29.05 | 371 | 1,736 | |
| 6 | VAR | | 0 | 11 | ADD YARDAGE FOR STAIRS/RAMPS |
| | | PAY TOTALS | 1,795 | 2,711 | |

OBTAIN 1179 CY OF MATERIAL FROM J1S3243

| ADDITIONAL MOBILIZATION FOR SEEDING |
|---|
| TOTAL = 4 EACH |

SUMMARY OF QUANTITIES
SHEET 1 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 3 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| NO. | DESCRIPTION | DATE |
|---|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## SIDEWALK

| ROUTE | STA. | STA. | LOCATION | TYPE 1 AGGR. BASE 4 IN. THICK | CONCRETE SIDEWALK, 4 IN. THICK | REMARKS |
|---|---|---|---|---|---|---|
| | | | | SY | SY | |
| 6 | 865+96.75 | 866+00.75 | LT | 4.6 | 4.6 | CONN TO SIDEWALK ON WEST SIDE OF CLEVELAND ST. |
| 6 | 866+46.49 | 868+83.93 | LT | 158.3 | 158.3 | BETWEEN CLEVELAND ST. TO OKLAHOMA ST. |
| 6 | 866+87.79 | | LT | 4.8 | 4.8 | CONN EXISTING SIDEWALK TO HOUSE. |
| 6 | 868+87.62 | | LT | 7.1 | 7.1 | CONN TO SIDEWALK ON WEST SIDE OF OKLAHOMA ST. |
| 6 | 869+34.25 | | LT | 3.6 | 3.6 | CONN TO SIDEWALK ON EAST SIDE OF OKLAHOMA ST. |
| 6 | 869+36.26 | 871+06.14 | LT | 94.4 | 94.4 | 5' SIDEWALK ON NORTH SIDE OF ROUTE 6 |
| 6 | 869+66.80 | . | LT | 3.6 | 3.6 | CONN EXISTING SIDEWALK TO HOUSE. |
| 6 | 870+51.87 | | LT | 3.7 | 3.7 | CONN EXISTING SIDEWALK TO HOUSE. |
| 6 | 871+32.40 | 872+40.26 | LT | 59.9 | 59.9 | 5' SIDEWALK ON NORTH SIDE OF ROUTE 6 |
| 6 | 871+58.76 | | LT | 2.2 | 2.2 | CONN FROM NEW STAIRS TO EXIST SIDEWALK |
| 6 | 872+23.13 | | LT | 2.2 | 2.2 | CONN FROM NEW STAIRS TO EXIST SIDEWALK |
| 6 | 872+18.13 | | RT | 2.8 | 2.8 | CONN TO EXISTING SIDEWALK |
| 6 | 872+20.99 | 873+08.37 | RT | 62.1 | 62.1 | BETWEEN MISSOURI ST. TO ALLEY |
| 6 | 872+72.54 | 873+22.33 | LT | 33.2 | 33.2 | 6' SIDEWALK ON NORTH SIDE OF ROUTE 6 |
| 6 | 873+59.83 | 874+48.16 | LT | 59.3 | 59.3 | 6' SIDEWALK ON NORTH SIDE OF ROUTE 6 |
| 6 | 873+58.65 | 874+75.67 | RT | 78.0 | 78.0 | 6' SIDEWALK FROM ALLEY TO ROUTE FF |
| FF | 0+19.48 | 0+40.28 | RT | 21.4 | 21.4 | FROM INTERSECTION OF ROUTE 6 TO 0+40.28 |
| 6 | 874+77.65 | 876+96.76 | LT | 103.6 | 103.6 | SIDEWALK IN FRONT OF CITY ALONG ROUTE 6 |
| 6 | 0+40.28 | 875+40.71 | RT | 18.1 | 18.1 | FROM STA. 0+40.28 TO INTERSECTION OF ROUTE 6 |
| 6 | 875+40.71 | 878+07.62 | RT | 292.4 | 292.4 | BETWEEN ROUTE FF TO FRANKLIN ST. |
| 6 | 876+08.27 | | LT | 16.5 | 16.5 | PIECES OF SIDEWALK IN THE NW QUAD OF ROUTE D |
| D | 0+45.90 | 0+22.57 | RT | 11.9 | 11.9 | SIDEWALK IN THE NE QUAD OF ROUTE D |
| 6 | 876+67.69 | 877+08.51 | LT | 39.9 | 39.9 | SIDEWALK IN FRONT OF POST OFFICE |
| 6 | 877+24.05 | 877+46.66 | LT | 13.3 | 13.3 | SIDEWALK IN FRONT OF FIRE STATION |
| 6 | 877+99.03 | 879+35.09 | LT | 90.7 | 90.7 | FROM FIRE STATION TO BROADWAY STREET |
| 6 | 878+37.76 | | LT | 3.4 | 3.4 | CONN TO EXISTING SIDEWALK |
| 6 | 878+45.11 | 881+02.08 | RT | 171.4 | 171.4 | FRANKLIN ST. TO JEFFERSON CITY |
| 6 | 878+98.22 | | RT | 5.0 | 5.0 | CONN TO EXISTING SIDEWALK |
| 6 | 879+72.08 | | RT | 4.7 | 4.7 | CONN TO EXISTING SIDEWALK |
| 6 | 879+74.63 | 880+95.25 | LT | 81.7 | 81.7 | FRANKLIN ST. TO JEFFERSON CITY |
| 6 | 880+87.69 | | LT | 4.9 | 4.9 | CONN TO EXISTING SIDEWALK |
| 6 | 881+19.00 | 882+43.19 | LT | 82.8 | 82.8 | BETWEEN ALLEY AND CHESTNUT ST. |
| 6 | 881+47.23 | | LT | 4.5 | 4.5 | CONN TO EXISTING SIDEWALK |
| 6 | 881+32.83 | 883+95.64 | RT | 175.2 | 175.2 | BETWEEN JEFFERSON ST. AND LAFAYETTE ST. |
| 6 | 882+35.68 | | RT | 2.6 | 2.6 | CONN FROM NEW STAIRS TO EXIST SIDEWALK |
| 6 | 882+81.39 | 885+29.22 | LT | 165.2 | 165.2 | BETWEEN CHESTNUT ST. AND ERVIN ST. |
| 6 | 884+33.24 | 886+85.31 | RT | 168.0 | 168.0 | BETWEEN LAFAYETTE ST. AND WEBSTER ST. |
| 6 | 885+31.22 | | LT | 4.9 | 4.9 | CONN TO EXISTING SIDEWALK |
| 6 | 886+88.46 | 890+02.59 | LT | 207.9 | 207.9 | BETWEEN PRIVATE ENTRANCES |
| 6 | 887+16.11 | | LT | 1.9 | 1.9 | CONN FROM NEW STAIRS TO EXIST SIDEWALK |
| 6 | 886+85.31 | 889+81.00 | RT | 171.1 | 171.1 | FROM WEBSTER ST. TO PRIVATE ENTRANCE |
| | | TOTALS | | 2442.8 | 2442.8 | |
| | | PAY TOTALS | | 2443.0 | 2442.8 | |

## TRUNCATED DOMES

| ROUTE | STA. | LOCATION | SQ FT | REMARKS |
|---|---|---|---|---|
| 6 | 866+07.47 | LT | 9.6 | WEST SIDE OF CLEVELAND ST. |
| 6 | 866+40.00 | LT | 11.6 | EAST SIDE OF CLEVELAND ST. |
| 6 | 868+95.00 | LT | 11.6 | WEST SIDE OF OKLAHOMA ST. |
| 6 | 869+24.26 | LT | 9.6 | EAST SIDE OF OKLAHOMA ST. |
| 6 | 872+10.21 | RT | 11.6 | EAST SIDE OF MISSOURI ST. |
| 6 | 873+19.90 | RT | 11.6 | WEST SIDE OF ALLEY |
| 6 | 873+51.90 | RT | 11.6 | EAST SIDE OF ALLEY |
| 6 | 873+28.08 | LT | 11.6 | WEST SIDE OF ALLEY |
| 6 | 873+54.08 | LT | 11.6 | EAST SIDE OF ALLEY |
| 6 | 874+52.91 | LT | 11.6 | WEST SIDE OF ALLEY |
| 6 | 874+71.90 | LT | 11.6 | EAST SIDE OF ALLEY |
| 6 | 874+90.98 | RT | 9.6 | WEST SIDE OF ROUTE FF CROSSWALK |
| 6 | 875+21.86 | RT | 9.6 | EAST SIDE OF ROUTE FF CROSSWALK |
| 6 | 875+43.12 | LT | 9.6 | NORTH SIDE OF ROUTE 6 CROSSWALK |
| 6 | 875+43.12 | RT | 9.6 | SOUTH SIDE OF ROUTE 6 CROSSWALK |
| 6 | 876+12.49 | LT | 9.6 | WEST SIDE OF ROUTE D CROSSWALK |
| 6 | 876+54.77 | LT | 9.6 | EAST SIDE OF ROUTE D CROSSWALK |
| 6 | 878+13.42 | RT | 11.6 | WEST SIDE OF FRANKLIN ST. |
| 6 | 878+39.11 | RT | 11.6 | EAST SIDE OF FRANKLIN ST. |
| 6 | 879+40.72 | LT | 11.6 | WEST SIDE OF BROADWAY ST. |
| 6 | 879+67.73 | LT | 11.6 | EAST SIDE OF BROADWAY ST. |
| 6 | 881+07.78 | RT | 11.6 | WEST SIDE OF JEFFERSON ST. |
| 6 | 881+33.83 | RT | 11.6 | EAST SIDE OF JEFFERSON ST. |
| 6 | 882+49.26 | LT | 11.6 | WEST SIDE OF CHESTNUT ST. |
| 6 | 882+75.29 | LT | 11.6 | EAST SIDE OF CHESTNUT ST. |
| 6 | 884+01.40 | RT | 11.6 | WEST SIDE OF LAFAYETTE ST. |
| 6 | 884+27.48 | RT | 11.6 | EAST SIDE OF LAFAYETTE ST. |
| 6 | 885+39.96 | LT | 11.6 | WEST SIDE OF ERVIN ST. |
| 6 | 885+65.96 | LT | 11.6 | EAST SIDE OF ERVIN ST. |
| 6 | 886+91.06 | RT | 11.6 | WEST SIDE OF WEBSTER ST. |
| 6 | 887+17.11 | RT | 11.6 | EAST SIDE OF WEBSTER ST. |
| | TOTAL | | 343.6 | |
| | PAY TOTAL | | 344 | |

## TREE REMOVAL

| RTE. | STA. | LOCATION | DESCRIPTION | QUANTITY | UNIT | REMARKS |
|---|---|---|---|---|---|---|
| 6 | 869+34.00 | RIGHT | TREE | 1.0 | EACH | |
| 6 | 869+55.00 | LEFT | TREE | 1.0 | EACH | |
| 6 | 869+83.00 | LEFT | TREE | 1.0 | EACH | |
| 6 | 870+32.00 | LEFT | TREE | 1.0 | EACH | |
| 6 | 871+72.00 | LEFT | TREE | 1.0 | EACH | |
| 6 | 886+23.00 | RIGHT | TREE | 1.0 | EACH | |
| 6 | 886+36.00 | RIGHT | TREE | 1.0 | EACH | |
| 6 | 886+40.00 | RIGHT | TREE | 1.0 | EACH | |
| 6 | 886+50.00 | RIGHT | TREE | 1.0 | EACH | |
| 6 | 886+57.00 | RIGHT | TREE | 1.0 | EACH | |
| 6 | 886+65.00 | RIGHT | TREE | 1.0 | EACH | |
| 6 | 889+29.00 | LEFT | TREE | 1.0 | EACH | |
| 6 | 889+40.00 | LEFT | TREE | 1.0 | EACH | |
| | | | TOTAL | 13.0 | EACH | |

## PRIVATE APPROACHES

| ROUTE | STA. | LOCATION | TYPE 1 AGGREGATE FOR BASE (4 IN. THICK) | PAVED APPROACH 7 IN. | GRAVEL A OR CR. STONE B (4 IN. THICK) | REMARKS |
|---|---|---|---|---|---|---|
| | | | SY | SY | SY | |
| 6 | 862+50.00 | LT | 46.6 | 46.6 | 0.0 | INCLUDES INTEGRAL CURB |
| 6 | 864+68.00 | RT | 34.2 | 34.2 | 3.1 | INCLUDES INTEGRAL CURB |
| 6 | 870+69.00 | RT | 62.6 | 62.6 | 3.0 | INCLUDES INTEGRAL CURB |
| 6 | 871+19.00 | LT | 28.5 | 28.5 | 2.4 | INCLUDES INTEGRAL CURB |
| 6 | 871+40.00 | RT | 62.0 | 62.0 | 9.3 | INCLUDES INTEGRAL CURB |
| 6 | 872+55.00 | LT | 39.3 | 39.3 | 6.7 | INCLUDES INTEGRAL CURB |
| 6 | 873+35.00 | RT | 89.4 | 89.4 | 31.1 | INCLUDES INTEGRAL CURB |
| 6 | 873+41.00 | LT | 39.3 | 39.3 | 0.0 | INCLUDES INTEGRAL CURB |
| 6 | 874+63.00 | LT | 12.8 | 12.8 | 22.5 | INCLUDES INTEGRAL CURB |
| 6 | 877+16.00 | LT | 20.7 | 20.7 | 0.0 | INCLUDES INTEGRAL CURB |
| 6 | 881+17.00 | LT | 26.0 | 26.0 | 5.4 | INCLUDES INTEGRAL CURB |
| 6 | 886+76.00 | LT | 26.0 | 26.0 | 6.0 | INCLUDES INTEGRAL CURB |
| 6 | 889+99.00 | RT | 38.9 | 38.9 | 1.1 | INCLUDES INTEGRAL CURB |
| 6 | 890+13.00 | LT | 29.6 | 29.6 | 15.7 | INCLUDES INTEGRAL CURB |
| | | TOTALS | 555.9 | 555.9 | 106.3 | |
| | | PAY TOTALS | 556 | 555.9 | 106 | |

## LINEAR GRADING CLASS 2

| STA | LOCATION | NET LENGTH (LINEAR FT) | LINEAR GRADING (STA) | REMARKS |
|---|---|---|---|---|
| 864+40.00 | LEFT | 110 | 1.1 | GRADING FOR OUTLET DITCH |
| | | TOTAL | 1.1 | |

SUMMARY OF QUANTITIES
SHEET 2 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/27/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## CONCRETE STAIRS AND RAMPS

| ROUTE | STA. | STA. | LOCATION | CONCRETE CLASS B CU. YARD | REINFORCING STEEL POUNDS | HAND RAILING W/O BALUSTERS LIN. FEET | REMARKS |
|---|---|---|---|---|---|---|---|
| 6 | 871+58.76 | 871+58.76 | LT | 0.88 | 43 | 8.0 | HAND RAILS ON EACH SIDE OF STAIRS |
| 6 | 872+23.13 | 872+23.13 | LT | 0.00 | 0 | 38.4 | HAND RAILS ON EACH SIDE OF ADA RAMP |
| 6 | 875+86.95 | 875+86.95 | RT | 2.18 | 162 | 16.8 | ADA RAMP AND STAIRS TO BUILDING ENTRANCE |
| 6 | 876+14.82 | 876+14.82 | RT | 2.67 | 213 | 21.7 | ADA RAMP AND STAIRS TO BUILDING ENTRANCE |
| 6 | 882+35.68 | 882+35.68 | RT | 0.88 | 43 | 10.0 | HAND RAILS ON EACH SIDE OF STAIRS |
| 6 | 887+16.01 | 887+16.01 | LT | 1.02 | 50 | 12.6 | HAND RAILS ON EACH SIDE OF STAIRS |
| 6 | 873+50.00 | 874+50.00 | LT | | | 100.0 | HAND RAILS BETWEEN DRIVEWAYS ON PARCEL 20 |
| | | | TOTALS | 7.63 | 511.0 | 207.5 | |
| | | | PAY TOTALS | 7.6 | 510.0 | 208.0 | |

## PAVEMENT EDGE TREATMENT

| ROUTE | STA. | STA. | LOCATION | EDGE DROPOFF TREATMENT LIN. FT. | REMARKS |
|---|---|---|---|---|---|
| 6 | 861+00.00 | 890+29.00 | LT | 2,929.00 | |
| 6 | 861+00.00 | 890+29.00 | RT | 2,929.00 | |
| | | TOTAL | | 5,858.00 | |
| | | PAY TOTAL | | 5,858 | |

## CURB RAMP

| ROUTE | STA. | STA. | LOCATION | CONCRETE CURB RAMP SY | TYPE 1 AGGR. BASE 4 IN. THICK SY | REMARKS |
|---|---|---|---|---|---|---|
| 6 | 865+96.75 | 866+10.80 | LT | 6.0 | 6.0 | NORTHWEST CORNER OF CLEVELAND ST. |
| 6 | 866+35.65 | 866+46.49 | LT | 6.7 | 6.7 | NORTHEAST CORNER OF CLEVELAND ST. |
| 6 | 868+83.93 | 869+00.00 | LT | 9.5 | 9.5 | NORTHWEST CORNER OF OKLAHOMA ST. |
| 6 | 869+20.73 | 869+36.26 | LT | 9.0 | 9.0 | NORTHEAST CORNER OF OKLAHOMA ST. |
| 6 | 871+06.14 | 871+11.77 | LT | 3.6 | 3.6 | WEST SIDE OF PRIVATE ENTRANCE |
| 6 | 871+26.77 | 871+32.40 | LT | 3.6 | 3.6 | EAST SIDE OF PRIVATE ENTRANCE |
| 6 | 872+07.21 | 872+20.99 | RT | 6.4 | 6.4 | SOUTHEAST CORNER OF MISSOURI ST. |
| 6 | 873+02.37 | 873+20.90 | RT | 13.0 | 13.0 | SOUTHWEST CORNER OF ALLEY |
| 6 | 873+48.90 | 873+58.65 | RT | 6.7 | 6.7 | SOUTHEAST CORNER OF ALLEY |
| 6 | 873+22.33 | 873+31.08 | LT | 6.0 | 6.0 | NORTHWEST CORNER OF ALLEY |
| 6 | 873+51.08 | 873+59.83 | LT | 6.0 | 6.0 | NORTHEAST CORNER OF ALLEY |
| 6 | 874+48.16 | 874+56.81 | LT | 6.0 | 6.0 | NORTHWEST CORNER OF ALLEY |
| 6 | 874+68.80 | 874+77.65 | LT | 6.0 | 6.0 | NORTHEAST CORNER OF ALLEY |
| FF | 0+30.28 | 0+36.28 | RT | 5.1 | 5.1 | SOUTHWEST CORNER OF ROUTE 6 AND FF |
| FF | 0+30.28 | 0+36.28 | LT | 4.8 | 4.8 | SOUTHEAST CORNER OF ROUTE 6 AND FF |
| 6 | 875+40.13 | 875+46.12 | RT | 5.5 | 5.5 | SOUTHEAST CORNER OF ROUTE 6 AND FF |
| 6 | 875+40.13 | 875+46.12 | RT | 5.0 | 5.0 | CROSS WALK IN FRONT OF CITY HALL |
| 6 | 876+96.76 | 877+04.76 | LT | 6.0 | 6.0 | RAMP TO ROUTE D CROSSWALK |
| 6 | 877+13.54 | 877+17.05 | LT | 0.9 | 0.9 | RAMP IN FRONT OF DOMES AT ROUTE D |
| 6 | 877+51.09 | 877+58.04 | LT | 3.8 | 3.8 | RAMP TO ROUTE D CROSSWALK |
| 6 | 878+07.62 | 878+16.42 | RT | 6.4 | 6.4 | RAMP ON WEST SIDE OF FRANKLIN ST. |
| 6 | 878+36.42 | 878+45.11 | RT | 6.3 | 6.3 | RAMP ON EAST SIDE OF FRANKLIN ST. |
| 6 | 879+35.09 | 879+45.47 | LT | 7.4 | 7.4 | RAMP ON WEST SIDE OF BROADWAY ST. |
| 6 | 879+66.08 | 879+74.63 | LT | 6.5 | 6.5 | RAMP ON EAST SIDE OF BROADWAY ST. |
| 6 | 880+95.25 | 883+00.00 | LT | 5.0 | 5.0 | RAMP ON WEST SIDE OF ALLEY |
| 6 | 881+12.00 | 881+19.00 | LT | 5.0 | 5.0 | RAMP ON EAST SIDE OF ALLEY |
| 6 | 881+02.08 | 881+10.78 | RT | 6.0 | 6.0 | RAMP ON WEST SIDE OF JEFFERSON ST. |
| 6 | 881+30.83 | 881+39.60 | RT | 6.0 | 6.0 | RAMP ON EAST SIDE OF JEFFERSON ST. |
| 6 | 881+02.08 | 881+10.78 | RT | 6.0 | 6.0 | RAMP ON WEST SIDE OF JEFFERSON ST. |
| 6 | 882+43.19 | 882+52.29 | LT | 6.7 | 6.7 | RAMP ON EAST SIDE OF CHESTNUT ST. |
| 6 | 882+72.29 | 882+81.39 | LT | 6.7 | 6.7 | RAMP ON EAST SIDE OF CHESTNUT ST. |
| 6 | 883+95.64 | 884+04.40 | RT | 6.4 | 6.4 | RAMP ON EAST SIDE OF LAFAYETTE ST. |
| 6 | 884+24.46 | 884+33.24 | RT | 6.4 | 6.4 | RAMP ON EAST SIDE OF LAFAYETTE ST. |
| 6 | 885+29.22 | 885+42.96 | LT | 10.0 | 10.0 | RAMP ON EAST SIDE OF ERVIN ST. |
| 6 | 885+62.96 | 885+71.71 | LT | 6.4 | 6.4 | RAMP ON EAST SIDE OF ERVIN ST. |
| 6 | 886+64.46 | 886+71.46 | LT | 4.7 | 4.7 | RAMP ON EAST SIDE OF PRIVATE ENTRANCE. |
| 6 | 886+81.46 | 886+88.46 | LT | 4.7 | 4.7 | RAMP ON WEST SIDE OF PRIVATE ENTRANCE. |
| 6 | 886+85.31 | 886+94.06 | RT | 6.4 | 6.4 | RAMP ON EAST SIDE OF WEBSTER ST. |
| 6 | 887+14.11 | 866+85.31 | RT | 6.4 | 6.4 | RAMP ON EAST SIDE OF WEBSTER ST. |
| 6 | 889+81.00 | 889+92.58 | RT | 6.9 | 6.9 | RAMP ON WEST SIDE OF PRIVATE ENTRANCE. |
| 6 | 890+02.59 | 890+08.18 | LT | 3.6 | 3.6 | RAMP ON WEST SIDE OF PRIVATE ENTRANCE. |
| | | TOTALS | | 249.5 | 249.5 | |
| | | PAY TOTALS | | 249.5 | 250 | |

## INTEGRAL CURB

| ROUTE | STA. | STA. | LOCATION | DISTANCE | 6 IN. INTEGRAL CURB LIN. FEET | 8 IN. INTEGRAL CURB LIN. FEET | REMARKS |
|---|---|---|---|---|---|---|---|
| 6 | 866+39.91 | 868+95.50 | LT | 255.59 | 255.6 | | |
| 6 | 866+34.18 | 868+96.75 | RT | 262.57 | 262.6 | | |
| 6 | 869+25.12 | 871+09.77 | LT | 184.65 | 184.7 | | |
| 6 | 869+26.37 | 870+52.39 | RT | 126.02 | 126.0 | | |
| 6 | 870+86.39 | 871+24.26 | RT | 37.87 | 37.9 | | |
| 6 | 871+28.77 | 872+43.89 | LT | 115.12 | 115.1 | | |
| 6 | 871+59.63 | 871+80.80 | RT | 21.17 | 21.2 | | |
| 6 | 872+09.21 | 873+18.90 | RT | 109.69 | 109.7 | | |
| 6 | 872+67.89 | 873+29.08 | LT | 61.19 | 61.2 | | |
| 6 | 873+50.90 | 874+77.84 | RT | 126.94 | 126.9 | | |
| 6 | 873+53.08 | 874+54.91 | LT | 102.39 | 102.4 | | |
| 6 | 874+70.90 | 875+35.70 | LT | 64.80 | | 64.8 | |
| 6 | 875+35.70 | 875+49.72 | LT | 19.01 | | 19.0 | |
| 6/FF | 874+77.84 | 0+40.28 | RT | 36.89 | 36.9 | | |
| 6 | 875+49.72 | 876+08.27 | LT | 58.55 | | 58.6 | |
| 6/FF | 0+40.28 | 875+49.72 | RT | 60.58 | 60.6 | | |
| 6 | 875+49.72 | 878+14.42 | RT | 264.70 | 264.7 | | |
| 6/D | 876+08.27 | 0+45.90 | LT | 26.67 | | 26.7 | |
| 6/D | 0+45.90 | 876+59.39 | LT | 31.85 | 31.9 | | |
| 6 | 877+91.49 | 879+41.72 | LT | 150.23 | 150.2 | | |
| 6 | 878+38.11 | 881+08.78 | RT | 270.67 | 270.7 | | |
| 6 | 879+70.88 | 881+00.00 | LT | 129.12 | 129.1 | | |
| 6 | 881+14.00 | 882+50.29 | LT | 136.29 | 136.3 | | |
| 6 | 881+32.83 | 884+02.40 | RT | 269.57 | 269.6 | | |
| 6 | 882+74.29 | 885+40.96 | LT | 266.67 | 266.7 | | |
| 6 | 884+26.46 | 886+92.06 | RT | 265.60 | 265.6 | | |
| 6 | 885+64.96 | 886+69.46 | LT | 104.50 | 104.5 | | |
| 6 | 886+83.46 | 890+06.18 | LT | 322.72 | 322.7 | | |
| 6 | 887+16.11 | 889+82.88 | RT | 266.77 | 266.8 | | |
| | | TOTALS | | | 3979.6 | 169.0 | |
| | | PAY TOTALS | | | 3980.0 | 169.0 | |

## CONCRETE CURB TYPE S (6 IN. HEIGHT AND UNDER)

| ROUTE | STA. | STA. | LOCATION | TYPE S CURB LF | REMARKS |
|---|---|---|---|---|---|
| 6 | 873+60.00 | 874+75.00 | RT | 115.0 | BETWEEN DRIVEWAYS OF PARCEL 20 |
| | | TOTALS | | 115.0 | |
| | | PAY TOTALS | | 115 | |

SUMMARY OF QUANTITIES
SHEET 3 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |

| DISTRICT | SHEET NO. |
|---|---|
| NW | 3 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## 8" NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | 8" NON-REINFORCED CONCRETE PAVEMENT SQ. YARDS | TYPE 1 AGGR. BASE 4 IN. THICK SQ. YARDS | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 6 | 866+39.91 | 868+95.50 | LT | 255.59 | 4.5 | 127.8 | 127.8 | |
| 6 | 866+34.18 | 868+96.75 | RT | 262.57 | 4.5 | 131.3 | 131.3 | |
| 6 | 869+25.12 | 871+09.77 | LT | 184.65 | 4.5 | 92.3 | 92.3 | |
| 6 | 869+26.37 | 870+52.39 | RT | 126.02 | 4.5 | 63.0 | 63.0 | |
| 6 | 870+86.39 | 871+24.26 | RT | 37.87 | 4.5 | 18.9 | 18.9 | |
| 6 | 871+28.77 | 872+43.89 | LT | 115.12 | 4.5 | 57.6 | 57.6 | |
| 6 | 871+59.63 | 871+80.80 | RT | 21.17 | 4.5 | 10.6 | 10.6 | |
| 6 | 872+09.21 | 873+18.90 | RT | 109.69 | 4.5 | 54.8 | 54.8 | |
| 6 | 872+67.89 | 873+29.08 | LT | 61.19 | 4.5 | 30.6 | 30.6 | |
| 6 | 873+50.90 | 874+77.84 | RT | 126.94 | 9.0 | 126.4 | 126.4 | |
| 6 | 873+53.08 | 873+72.90 | LT | 19.82 | 4.5 | 9.9 | 9.9 | |
| 6 | 873+72.90 | 874+18.95 | LT | 46.05 | 6.4 | 32.5 | 32.5 | |
| 6 | 874+18.95 | 876+00.72 | LT | | | 177.7 | 177.7 | IRREGULAR AREA |
| 6/D | 876+00.72 | 0+45.90 | LT | | | 24.2 | 24.2 | IRREGULAR AREA |
| 6 | 874+70.90 | 875+35.70 | LT | 64.80 | 4.5 | 32.4 | 32.4 | |
| 6/FF | 874+73.94 | 0+40.28 | RT | | | 14.1 | 14.1 | IRREGULAR AREA |
| 6/FF | 0+40.28 | 875+49.72 | RT | | | 9.5 | 9.5 | IRREGULAR AREA |
| 6 | 875+49.72 | 880+24.87 | RT | 475.15 | 8.6 | 451.9 | 451.9 | |
| 6/D | 0+45.90 | 876+67.69 | LT | | | 24.7 | 24.7 | IRREGULAR AREA |
| 6 | 876+67.69 | 879+41.72 | LT | 274.03 | 9.5 | 289.3 | 289.3 | |
| 6 | 879+70.88 | 881+00.00 | LT | 129.12 | 4.5 | 64.6 | 64.6 | |
| 6 | 880+24.87 | 880+64.69 | RT | 39.82 | 6.5 | 28.8 | 28.8 | |
| 6 | 880+64.69 | 881+08.78 | RT | 44.09 | 4.5 | 22.0 | 22.0 | |
| 6 | 881+14.00 | 882+50.29 | LT | 136.29 | 4.5 | 68.1 | 68.1 | |
| 6 | 881+32.83 | 884+02.40 | RT | 269.57 | 4.5 | 134.8 | 134.8 | |
| 6 | 882+74.29 | 885+40.96 | LT | 266.67 | 4.5 | 133.3 | 133.3 | |
| 6 | 884+26.48 | 886+92.06 | RT | 265.58 | 4.5 | 132.8 | 132.8 | |
| 6 | 885+64.96 | 886+69.46 | LT | 104.50 | 4.5 | 52.3 | 52.3 | |
| 6 | 886+83.46 | 890+06.18 | LT | 322.72 | 4.5 | 161.4 | 161.4 | |
| 6 | 887+16.11 | 889+82.88 | RT | 266.77 | 4.5 | 133.4 | 133.4 | |
| | | TOTALS | | | | 2711.0 | 2711.0 | |
| | | PAY TOTALS | | | | 2711.0 | 2711 | |

## SIDE STREETS

| ROUTE | STA. | LOCATION | TYPE 1 AGGREGATE FOR BASE (4 IN. THICK) | PAVED APPROACH, 8 IN. | GRAVEL A OR CR. STONE B (4 IN. THICK) | REMARKS |
|---|---|---|---|---|---|---|
| | | | SY | SY | SY | |
| 6 | 863+33.00 | RT | 46.6 | 46.6 | 4.1 | IVIE ST. - INCLUDES INTEGRAL CURB |
| 6 | 866+17.00 | RT | 70.0 | 70.0 | 11.7 | CLEVELAND ST. - INCLUDES INTEGRAL CURB |
| 6 | 866+23.00 | LT | 74.1 | 74.1 | 14.8 | CLEVELAND ST. - INCLUDES INTEGRAL CURB |
| 6 | 869+11.00 | RT | 44.2 | 44.2 | 13.8 | OKLAHOMA ST. - INCLUDES INTEGRAL CURB |
| 6 | 869+11.00 | LT | 57.6 | 57.6 | 9.7 | OKLAHOMA ST. - INCLUDES INTEGRAL CURB |
| 6 | 871+95.00 | RT | 53.3 | 53.3 | 5.4 | MISSOURI ST. - INCLUDES INTEGRAL CURB |
| 6 | 878+26.00 | RT | 27.5 | 27.5 | 15.9 | FRANKLIN ST. - INCLUDES INTEGRAL CURB |
| 6 | 879+56.00 | LT | 55.7 | 55.7 | 48.6 | BROADWAY ST. - INCLUDES INTEGRAL CURB |
| 6 | 881+21.00 | RT | 44.5 | 44.5 | 5.6 | JEFFERSON ST. - INCLUDES INTEGRAL CURB |
| 6 | 882+62.00 | LT | 49.2 | 49.2 | 9.0 | CHESTNUT ST. - INCLUDES INTEGRAL CURB |
| 6 | 884+15.00 | RT | 48.8 | 48.8 | 43.2 | LAFAYETTE ST.- INCLUDES INTEGRAL CURB |
| 6 | 885+53.00 | LT | 39.3 | 39.3 | 5.6 | URVIN ST. - INCLUDES INTEGRAL CURB |
| 6 | 887+04.00 | RT | 49.3 | 49.3 | 15.3 | WEBSTER ST. - INCLUDES INTEGRAL CURB |
| 6 | 877+67.00 | LT | 49.9 | 49.9 | 21.9 | FIRE STATION - INCLUDES INTEGRAL CURB |
| | | TOTALS | 710.0 | 710.0 | 224.6 | |
| | | PAY TOTALS | 710 | 710.0 | 225.0 | |

SUMMARY OF QUANTITIES
SHEET 4 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/27/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |

| DISTRICT | SHEET NO. |
|---|---|
| NW | 3 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## TACK

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | TACK GALLONS | REMARKS |
|---|---|---|---|---|---|---|---|
| 6 | 861+67.00 | 866+01.48 | LT | 434.48 | 13.12 | 63.3 | APPLY @ 0.10 GAL/SQ. YARD |
| 6 | 861+67.00 | 865+95.76 | RT | 428.76 | 13.12 | 62.5 | |
| 6 | 866+01.48 | 873+61.27 | LT | 759.79 | 12 | 101.3 | |
| 6 | 865+95.76 | 873+18.90 | RT | 723.14 | 12 | 96.4 | |
| 6 | 873+61.27 | 873+72.90 | LT | 11.63 | 12.5 | 1.6 | |
| 6 | 873+18.90 | 873+50.90 | RT | 32.00 | 12.5 | 4.4 | |
| 6 | 873+72.90 | 879+41.72 | LT | 568.82 | 13 | 82.2 | |
| 6 | 873+50.90 | 880+64.69 | RT | 713.79 | 13 | 103.1 | |
| 6 | 879+41.72 | 879+70.88 | LT | 29.16 | 12.5 | 4.1 | |
| 6 | 880+64.69 | 880+74.70 | RT | 10.01 | 12.5 | 1.4 | |
| 6 | 879+70.88 | 890+27.84 | LT | 1,056.96 | 13 | 152.7 | |
| 6 | 880+74.70 | 890+15.45 | RT | 940.75 | 13 | 135.9 | |
| 6 | 890+27.84 | 892+76.65 | LT | 248.81 | 13.12 | 36.3 | |
| 6 | 890+15.45 | 892+76.65 | RT | 261.20 | 13.12 | 38.1 | |
| | | TOTALS | | | | 883.3 | |
| | | PAY TOTALS | | | | 883 | |

## BITUMINOUS BASE PG 64-22 (WIDENING)

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | THICKNESS | BIT. BASE PG 64-22 TONS | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 6 | 861+67.00 | 866+01.48 | LT | 434.48 | 3.014 | 0.8333 | 78.2 | FACTOR 1.934 TONS/C.Y. |
| 6 | 861+67.00 | 865+95.76 | RT | 428.76 | 3.014 | 0.8333 | 77.1 | |
| 6 | 866+01.48 | 873+61.27 | LT | 759.79 | 1.5 | 0.8333 | 68.0 | |
| 6 | 865+95.76 | 873+18.90 | RT | 723.14 | 1.5 | 0.8333 | 64.7 | |
| 6 | 879+60.00 | 890+13.00 | LT | 1,053.00 | 1.5 | 0.8333 | 94.3 | |
| 6 | 880+74.33 | 889+99.26 | RT | 924.93 | 1.5 | 0.8333 | 82.8 | |
| 6 | 890+13.00 | 892+76.65 | LT | 263.65 | 3.014 | 0.8333 | 47.4 | |
| 6 | 889+99.26 | 892+76.65 | RT | 277.39 | 3.014 | 0.8333 | 49.9 | |
| 6 | | | | | | | 50.9 | TEMPORARY SURFACE |
| | | TOTAL | | | | | 613.3 | |

## A2 SHOULDER

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | TYPE A2 SHOULDER SQ. YARDS | TYPE 1 AGGR. BASE 4 IN. THICK SQ. YARDS | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 6 | 861+67.00 | 866+01.48 | LT | 434.48 | 3 | 144.8 | 169.0 | |
| 6 | 861+67.00 | 865+95.76 | RT | 428.76 | 3 | 142.9 | 166.7 | |
| 6 | 890+27.84 | 892+76.65 | LT | 248.81 | 3 | 82.9 | 96.8 | |
| 6 | 890+15.45 | 892+76.65 | RT | 261.20 | 3 | 87.1 | 101.6 | |
| | | TOTALS | | | | 457.7 | 534.1 | |
| | | PAY TOTALS | | | | 457.7 | 534.0 | |

## SURFACE COURSE - BP-1 PG 64-22

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | THICKNESS | BP-1 PG 64-22 TONS | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 6 | 861+67.00 | 866+01.48 | LT | 434.48 | 13.06 | 0.1458 | 59.3 | |
| 6 | 861+67.00 | 865+95.76 | RT | 428.76 | 13.06 | 0.1458 | 58.5 | |
| 6 | 866+01.48 | 873+61.27 | LT | 759.79 | 12 | 0.1458 | 95.2 | |
| 6 | 865+95.76 | 873+18.90 | RT | 723.14 | 12 | 0.1458 | 90.6 | |
| 6 | 873+61.27 | 873+72.90 | LT | 11.63 | 12.5 | 0.1458 | 1.5 | |
| 6 | 873+18.90 | 873+50.90 | RT | 32.00 | 12.5 | 0.1458 | 4.2 | |
| 6 | 873+72.90 | 879+41.72 | LT | 568.82 | 13 | 0.1458 | 77.2 | |
| 6 | 873+50.90 | 880+64.69 | RT | 713.79 | 13 | 0.1458 | 96.9 | |
| 6 | 879+41.72 | 879+70.88 | LT | 29.16 | 12.5 | 0.1458 | 3.8 | |
| 6 | 880+64.69 | 880+74.70 | RT | 10.01 | 12.5 | 0.1458 | 1.3 | |
| 6 | 879+70.88 | 890+27.84 | LT | 1,056.96 | 13 | 0.1458 | 143.5 | |
| 6 | 880+74.70 | 890+15.45 | RT | 940.75 | 13 | 0.1458 | 127.7 | |
| 6 | 890+27.84 | 892+76.65 | LT | 248.81 | 13.06 | 0.1458 | 33.9 | |
| 6 | 890+15.45 | 892+76.65 | RT | 261.20 | 13.06 | 0.1458 | 35.6 | |
| | | TOTAL | | | | | 829.2 | |

## BP-1 PG 64-22 SURFACE LIFT (WIDENING)

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | THICKNESS | BP-1 PG 64-22 TONS | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 6 | 861+67.00 | 866+01.48 | LT | 434.48 | 3.014 | 0.14583 | 13.7 | FACTOR 1.934 TONS/C.Y. |
| 6 | 861+67.00 | 865+95.76 | RT | 428.76 | 3.014 | 0.14583 | 13.5 | |
| 6 | 866+01.48 | 873+61.27 | LT | 759.79 | 1.5 | 0.14583 | 11.9 | |
| 6 | 865+95.76 | 873+18.90 | RT | 723.14 | 1.5 | 0.14583 | 11.3 | |
| 6 | 879+60.00 | 890+13.00 | LT | 1,053.00 | 1.5 | 0.14583 | 16.5 | |
| 6 | 880+74.33 | 889+99.26 | RT | 924.93 | 1.5 | 0.14583 | 14.5 | |
| 6 | 890+13.00 | 892+76.65 | LT | 263.65 | 3.014 | 0.14583 | 8.3 | |
| 6 | 889+99.26 | 892+76.65 | RT | 277.39 | 3.014 | 0.14583 | 8.7 | |
| | | TOTAL | | | | | 98.4 | |

## OPTIONAL PAVEMENT

| ROUTE | STA. | STA. | LOCATION | AREA SQ.FT. | OPTIONAL PAVEMENT SQ.YARDS | 4" TYPE 1 AGGR.BASE SQ.YARDS | REMARKS |
|---|---|---|---|---|---|---|---|
| 6 | 874+00.00 | 878+50.00 | CENTER | 11,708.00 | 1300.9 | 1300.9 | |
| | | TOTALS | | | 1300.9 | 1300.9 | |
| | | PAY TOTALS | | | 1300.9 | 1301 | |

## 3" CONCRETE MEDIAN STRIP

| ROUTE | STA. | STA. | LOCATION | AREA SF | 3" CONCRETE MEDIAN STRIP SY | REMARKS |
|---|---|---|---|---|---|---|
| 6 | 873+04.57 | 873+20.39 | RT | 72.44 | 8.0 | |
| FF | 0+22.52 | 0+30.28 | RT | 27.52 | 3.1 | |
| FF | 0+36.28 | 0+39.78 | RT | 25.44 | 2.8 | |
| FF | 0+36.28 | 0+40.28 | LT | 24.72 | 2.7 | |
| 6 | 875+21.07 | 875+40.13 | RT | 141.00 | 15.7 | |
| 6 | 875+36.27 | 875+39.79 | LT | 22.29 | 2.5 | |
| 6 | 875+45.79 | 875+49.27 | LT | 22.24 | 2.5 | |
| 6 | 875+46.12 | 875+49.13 | RT | 21.93 | 2.4 | |
| 6 | 875+97.29 | 876+12.94 | LT | 58.90 | 6.5 | |
| D | 0+34.39 | 0+45.90 | LT | 57.12 | 6.3 | |
| 6 | 876+54.56 | 876+59.01 | LT | 11.55 | 1.3 | |
| | | | | TOTAL | 53.8 | |

SUMMARY OF QUANTITIES
SHEET 5 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/13/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 3 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | DEPTH INCHES | COLD MILLING SQ. YARDS | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 6 | 861+67.00 | 874+00.00 | LT | 1,233.00 | 10.5 | 1.75 | 1439.0 | |
| 6 | 861+67.00 | 874+00.00 | RT | 1,233.00 | 10.5 | 1.75 | 1439.0 | |
| 6 | 878+50.00 | 892+76.65 | LT | 1,426.65 | 10.5 | 1.75 | 1664.0 | |
| 6 | 878+50.00 | 892+76.65 | RT | 1,426.65 | 10.5 | 1.75 | 1664.0 | |
| | | TOTAL | | | | | 6206.0 | |

## DROP INLETS AND MANHOLES

| RTE. | STRUCTURE ID | STA. | OFFSET FEET | LOC. | TYPE T PRECAST DROP INLET 2.5'X 3' FEET | TYPE T PRECAST DROP INLET 5' X 3' FEET | TYPE T PRECAST DROP INLET TYPE 3 MANHOLE FRAME & COVER EACH | TYPE E PRECAST DROP INLET 2.5'X3' FEET | TYPE E PRECAST DROP INLET 2.5'X3' TYPE E PRECAST SLAB EACH | TYPE S1 PRECAST DROP INLET 2.5' X 3' FEET | TYPE S1 PRECAST DROP INLET 5' X 3' FEET | TYPE S1 PRECAST DROP INLET 2.5' X 3' GRATE & BEARING PLATE EACH | TYPE S1 PRECAST DROP INLET 5' X 3' GRATE & BEARING PLATE EACH | MANHOLE 72" FEET | MANHOLE TYPE 2 MANHOLE FRAME & COVER EACH | CLASS 3 EXC. CY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | AI-7 | 866+35.00 | 27.00 | RT | | | | | | 3.00 | | 1 | | | | 3.2 | |
| 6 | I-5 | 866+60.00 | 18.00 | LT | 3.00 | | 1 | | | | | | | | | 1.6 | |
| 6 | I-6 | 866+60.00 | 18.00 | RT | 3.50 | | 1 | | | | | | | | | 3.5 | |
| 6 | I-3 | 868+60.00 | 18.00 | RT | 3.60 | | 1 | | | | | | | | | 4.3 | |
| 6 | AI-2A | 869+30.00 | 24.00 | RT | | | | | | 2.25 | | 1 | | | | 5.3 | |
| 6 | AI-2 | 868+90.34 | 24.00 | RT | | | | | | 3.60 | | 1 | | | | 5.3 | |
| 6 | I-10 | 870+30.00 | 18.00 | RT | 3.00 | | 1 | | | | | | | | | 5.2 | |
| 6 | I-11 | 871+05.00 | 18.00 | RT | 3.10 | | 1 | | | | | | | | | 4.9 | |
| 6 | AI-12 | 871+80.26 | 26.26 | RT | | | | | | | 3.40 | | 1 | | | 6.1 | |
| 6 | AI-13 | 872+10.00 | 26.00 | RT | | | | 3.76 | 1 | | | | | | | 6.7 | |
| 6 | I-14 | 872+25.00 | 18.00 | RT | 3.76 | | 1 | | | | | | | | | 6.9 | |
| 6 | I-15 | 872+25.00 | 18.00 | LT | 4.25 | | 1 | | | | | | | | | 5.1 | |
| 6 | I-16A | 873+62.04 | 27.50 | RT | | | | 4.65 | 1 | | | | | | | 9.8 | |
| 6 | I-16 | 872+95.00 | 18.00 | RT | 5.25 | | 1 | | | | | | | | | 8.9 | |
| 6 | I-17 | 872+95.00 | 18.00 | LT | 5.62 | | 1 | | | | | | | | | 8.1 | |
| 6 | MH-40 | 873+50.00 | 49.00 | LT | | | | | | | | | | 5.25 | 1 | 21.9 | |
| 6 | I-38 | 874+40.00 | 23.96 | RT | 4.71 | | 1 | | | | | | | | | 7.6 | |
| 6 | I-39 | 874+40.00 | 23.55 | LT | 5.16 | | 1 | | | | | | | | | 8.3 | |
| 6 | I-35 | 874+84.52 | 46.68 | RT | | 4.95 | 1 | | | | | | | | | 14.2 | |
| 6 | I-34 | 875+28.50 | 45.47 | RT | | 4.50 | 1 | | | | | | | | | 14.3 | |
| 6 | I-36 | 875+50.00 | 23.55 | RT | 3.58 | | 1 | | | | | | | | | 6.0 | |
| 6 | I-37 | 875+55.00 | 24.47 | LT | 4.50 | | 1 | | | | | | | | | 7.2 | |
| 6 | I-50 | 878+05.00 | 24.48 | LT | | 2.75 | 1 | | | | | | | | | 6.7 | |
| 6 | I-51 | 879+25.00 | 24.48 | LT | | 3.00 | 1 | | | | | | | | | 6.9 | |
| 6 | AI-53 | 879+40.00 | 51.00 | LT | | | | | | 2.75 | | 1 | | | | 6.1 | |
| 6 | AI-54 | 879+70.00 | 41.00 | LT | | | | | | 3.25 | | 1 | | | | 6.4 | |
| 6 | I-55 | 879+90.00 | 18.50 | LT | | 4.28 | 1 | | | | | | | | | 9.7 | |
| 6 | I-56 | 880+80.00 | 18.00 | LT | | 3.87 | 1 | | | | | | | | | 9.8 | |
| 6 | I-57 | 880+20.00 | 23.00 | RT | 4.50 | | 1 | | | | | | | | | 5.8 | |
| 6 | I-58 | 881+80.00 | 18.00 | LT | | 3.78 | 1 | | | | | | | | | 4.9 | |
| 6 | I-59 | 881+80.00 | 18.00 | RT | | 4.75 | 1 | | | | | | | | | 9.1 | |
| 6 | AI-60 | 882+45.00 | 29.00 | LT | | | | | | 3.90 | | 1 | | | | 6.2 | |
| 6 | AI-61 | 883+00.00 | 29.00 | LT | | | | | | 4.00 | | 1 | | | | 6.5 | |
| 6 | I-62 | 883+00.00 | 18.00 | LT | | 5.27 | 1 | | | | | | | | | 8.3 | |
| 6 | I-63 | 883+90.00 | 18.00 | LT | | 5.90 | 1 | | | | | | | | | 10.0 | |
| 6 | I-64 | 883+90.00 | 18.00 | RT | | 6.40 | 1 | | | | | | | | | 12.6 | |
| 6 | I-65 | 885+20.00 | 18.00 | LT | | 4.50 | 1 | | | | | | | | | 6.2 | |
| 6 | I-67 | 886+50.00 | 18.00 | LT | | 4.59 | 1 | | | | | | | | | 6.0 | |
| 6 | I-68 | 886+83.40 | 18.00 | RT | 4.15 | | 1 | | | | | | | | | 4.4 | |
| 6 | I-72 | 889+63.70 | 18.10 | RT | 4.61 | | 1 | | | | | | | | | 4.3 | |
| 6 | I-74 | 888+40.06 | 18.00 | LT | | 4.90 | 1 | | | | | | | | | 4.8 | |
| 6 | I-75 | 888+40.06 | 18.00 | RT | | 5.90 | 1 | | | | | | | | | 7.7 | |
| 6 | I-76 | 866+38.00 | 37.00 | RT | | | | | | 2.40 | | 1 | | | | 5.9 | |
| 6 | I-77 | 866+04.00 | 37.00 | RT | | | | | | 2.50 | | 1 | | | | 6.2 | |
| | | | TOTALS | | 66.29 | 69.3 | 31 | 8.4 | 2 | 25.15 | 3.40 | 8 | 1 | 5.25 | 1 | 318.9 | |
| | | PAY TOTALS | | | 66 | 69 | 31 | 8 | 2 | 25 | 3 | 8 | 1 | 5 | 1 | 319 | |

SUMMARY OF QUANTITIES
SHEET 6 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

# CULVERTS

| RTE. | PIPE ID | STA. | STA. | LOC. | PVC PIPE | GROUP B PIPE | | | | | | GROUP B END SECTIONS | | | | | FLOWABLE BACKFILL | CL. 3 EXC. | ROCK LINING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 8" | 12" | 15" | 18" | 24" | 30" | 42"x 29"ARCH | 12" | 15" | 18" | 24" | 42"x 29"ARCH | | | | |
| | | | | | LIN. FT. | LIN. FT. | LIN. FT. | LIN. FT. | LIN. FT. | LIN. FT. | LIN. FT. | EA | EA | EA | EA | EA | CY | CY | CY | |
| 6 | P-1A | 861+54.00 | | LT | | | 20.0 | | | | | | 2.0 | | | | | 15.2 | | |
| 6 | P-2A | 862+50.00 | | LT | | | 36.0 | | | | | | 2.0 | | | | | 15.2 | | |
| 6 | P-3A | 864+40.40 | | CENTER | | | | | 40.0 | | | | | | 2.0 | | 10.5 | 22.2 | 3.0 | |
| 6 | P-4A | 864+58.00 | 864+85.00 | RT | | | | 20.6 | | | | | | 2.0 | | | | 10.3 | | |
| 6 | P-7 | 865+89.00 | 866+35.00 | RT | | | | 38.9 | | | | | | 1.0 | | | | 15.9 | 2.0 | |
| 6 | P-6 | 866+35.40 | 866+60.00 | RT | | | 24.2 | | | | | | | | | | | 2.6 | | |
| 6 | P-5 | 866+60.00 | | CENTER | | | 33.0 | | | | | | | | | | 10.6 | 11.1 | | |
| 6 | P-3 | 866+60.00 | 868+60.00 | RT | | | 197.5 | | | | | | | | | | | 38.5 | | |
| 6 | P-2 | 868+60.00 | 868+90.34 | RT | | | 28.6 | | | | | | | | | | | 5.7 | | |
| 6 | P-1 | 869+30.00 | 868+90.24 | RT | | | 37.2 | | | | | | | | | | | 12.0 | | |
| 6 | P-10 | 870+30.00 | 871+05.00 | RT | | | | 72.5 | | | | | | | | | | 26.3 | | |
| 6 | P-11 | 871+05.00 | 871+08.26 | RT | | | | 71.7 | | | | | | | | | | 18.9 | | |
| 6 | P-12 | 871+80.26 | 872+10.00 | RT | | | | | 26.3 | | | | | | | | | 13.9 | | |
| 6 | P-11B | 871+80.26 | 871+82.31 | RT | | 17.7 | | | | | | | | | | | | 3.1 | | INCLUDED COUPLING BAND |
| 6 | P-13 | 872+10.00 | 872+25.00 | RT | | | | | | 14.8 | | | | | | | | 6.3 | | |
| 6 | P-14 | 872+25.00 | 872+95.00 | RT | | | | | | 67.5 | | | | | | | | 41.9 | | |
| 6 | P-15 | 872+25.00 | 872+95.00 | LT | | | 67.5 | | | | | | | | | | | 27.2 | | |
| 6 | P-16A | 872+95.00 | 873+62.04 | RT | | 65.3 | | | | | | | | | | | | 34.7 | | |
| 6 | P-16 | 872+95.00 | 872+95.00 | CENTER | | | | | | 33.0 | | | | | | | 23.6 | 29.6 | | |
| 6 | P-17 | 872+95.00 | 872+50.00 | LT | | | | | | 59.2 | | | | | | | | 46.0 | | |
| 6 | P-40 | 872+50.00 | 873+15.69 | LT | | | | | | | 71.7 | | | | | 1.0 | | 35.0 | 4.0 | |
| 6 | P-38 | 874+40.00 | 874+40.00 | CENTER | | | | | 44.5 | | | | | | | | 30.9 | 36.1 | | |
| 6 | P-39 | 874+40.00 | 872+50.00 | LT | | | | | 90.1 | | | | | | | | | 53.3 | | |
| 6 | P-35 | 874+84.52 | 874+40.00 | RT | | | | | 47.6 | | | | | | | | | 38.1 | | |
| 6 | P-34 | 875+28.50 | 874+84.52 | RT | | | | | 41.0 | | | | | | | | | 34.6 | | |
| 6 | P-36 | 875+50.00 | 875+28.50 | RT | | | 29.6 | | | | | | | | | | | 15.5 | | |
| 6 | P-37 | 875+55.00 | 874+40.00 | LT | | | 112.5 | | | | | | | | | | | 45.0 | | |
| 6 | P-50 | 878+05.00 | 879+25.00 | LT | | | 115.0 | | | | | | | | | | | 29.4 | | |
| 6 | P-51 | 879+25.00 | 879+90.00 | LT | | | 60.3 | | | | | | | | | | | 13.3 | | |
| 6 | P-55 | 879+90.00 | 880+80.00 | LT | | | 85.0 | | | | | | | | | | | 38.4 | | |
| 6 | P-56 | 880+80.00 | 881+80.00 | LT | | | 95.0 | | | | | | | | | | | 31.1 | | |
| 6 | P-58 | 881+80.00 | 883+00.00 | LT | | | | 115.0 | | | | | | | | | | 25.1 | | |
| 6 | P-58B | 881+80.00 | 881+80.00 | LT | 13.4 | | | | | | | | | | | | | 0.4 | | |
| 6 | P-62 | 883+00.00 | 883+90.00 | LT | | | | | 85.0 | | | | | | | | | 25.2 | | |
| 6 | P-63 | 883+90.00 | 883+90.00 | CENTER | | | | | 33.0 | | | | | | | | 25.4 | 29.2 | | |
| 6 | P-64 | 883+90.00 | 883+96.15 | RT | | | | | 17.2 | | | | | | 1.0 | | | 7.0 | 3.0 | |
| 6 | P-53 | 879+40.00 | 879+70.00 | LT | | | 29.2 | | | | | | | | | | | 9.1 | | |
| 6 | P-54 | 879+70.00 | 879+90.00 | LT | | | 28.2 | | | | | | | | | | | 10.1 | | |
| 6 | P-60 | 882+45.00 | 883+00.00 | LT | | | | | 32.5 | | | | | | | | | 18.1 | | |
| 6 | P-61 | 883+00.00 | 883+00.00 | LT | | | | | 21.0 | | | | | | | | | 6.8 | | |
| 6 | P-57 | 880+20.00 | 881+80.00 | RT | | | 156.3 | | | | | | | | | | | 66.5 | | |
| 6 | P-59 | 881+80.00 | 883+90.00 | RT | | | 205.0 | | | | | | | | | | | 76.6 | | |
| 6 | P-65 | 885+20.00 | 886+50.00 | LT | | | 125.0 | | | | | | | | | | | 34.8 | | |
| 6 | P-67 | 886+50.00 | 888+40.06 | LT | | | | | 185.1 | | | | | | | | | 38.1 | | |
| 6 | P-70 | 888+40.06 | 890+33.60 | LT | | | | 187.2 | | | | | | 1.0 | | | | 47.9 | | |
| 6 | P-73 | 888+40.06 | | LT | | | | 4.5 | | | | | | 1.0 | | | | 0.3 | | |
| 6 | P-74 | 888+40.06 | 888+40.06 | CENTER | | | | 32.8 | | | | | | | | | 19.5 | 21.7 | | |
| 6 | P-75 | 888+40.06 | | RT | | | | | 9.0 | | | | | | 1.0 | | | 2.1 | | |
| 6 | P-68 | 886+83.47 | 888+87.15 | RT | | | 8.9 | | | | | | 1.0 | | | | | 0.6 | | |
| 6 | P-69 | 886+83.47 | 888+40.06 | RT | | | 152.8 | | | | | | | | | | | 42.4 | | |
| 6 | P-72 | 888+40.06 | 889+63.70 | RT | | | | 120.2 | | | | | | | | | | 43.5 | | |
| 6 | P-71 | 889+63.70 | 890+27.12 | RT | | | | 52.8 | | | | | | 1.0 | | | | 17.3 | | |
| 6 | P-76 | 866+38.00 | 886+04.00 | RT | | | 29.8 | | | | | | | | | | | 12.3 | | |
| 6 | P-77 | 866+04.00 | 865+90.26 | RT | | | 19.2 | | | | | | 1.0 | | | | | 8.4 | 2.0 | |
| 6 | P-66 | 886+50.00 | | LT | | 8.50 | | | | | | 1.0 | | | | | | 0.4 | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | TOTALS | | 13.4 | 91.5 | 1675.8 | 716.2 | 672.3 | 174.5 | 71.7 | 1.0 | 4.0 | 6.0 | 4.0 | 1.0 | 120.5 | 1295.1 | 14.0 | |
| | | PAY TOTALS | | | 14 | 92 | 1676 | 716 | 672 | 175 | 72 | 1.0 | 4 | 6 | 4 | 1 | 121 | 1295 | 14 | |

SUMMARY OF QUANTITIES
SHEET 7 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/13/2020
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

| ROUTE | STATION | LOCATION | CURB INLET CHECKS EACH | ALTERNATE DITCH CHECKS LF | SILT FENCE LF | SEDIMENT REMOVAL CY | REMARKS |
|---|---|---|---|---|---|---|---|
| 6 | 861+19.05 | RIGHT & LEFT | | 24 | | 2 | |
| 6 | 861+19.05 | RIGHT & LEFT | | 24 | | 2 | |
| 6 | 864+31.00 | RIGHT | | 12 | | 1 | PLACE CHECK ADJACENT TO CROSSROAD CULVERT |
| 6 | 864+48.00 | RIGHT & LEFT | | 24 | | 2 | PLACE CHECK ADJACENT TO CROSSROAD CULVERT |
| 6 | 864+92.00 | RIGHT | | 12 | | 1 | |
| 6 | 865+48.00 | LEFT | | 12 | | 1 | |
| 6 | 866+06.00 | LEFT | | | 20 | 0.2 | PLACE SILT FENCE AROUND AREA INLET |
| 6 | 866+35.00 | RIGHT | | | 20 | 0.2 | PLACE SILT FENCE AROUND AREA INLET |
| 6 | 866+38.00 | LEFT | | | 20 | 0.2 | PLACE SILT FENCE AROUND AREA INLET |
| 6 | 866+60.00 | RIGHT & LEFT | 2 | | | 2 | |
| 6 | 868+60.00 | RIGHT | 1 | | | 1 | |
| 6 | 868+90.00 | RIGHT | | 8 | | 1 | PLACE IN SIDEROAD DITCH |
| 6 | 869+30.00 | RIGHT | | 8 | | 1 | PLACE IN SIDEROAD DITCH |
| 6 | 870+30.00 | RIGHT | 1 | | | 1 | |
| 6 | 871+05.00 | RIGHT | 1 | | | 1 | |
| 6 | 872+10.00 | RIGHT | | 8 | | 1 | PLACE IN SIDEROAD DITCH |
| 6 | 872+25.00 | RIGHT & LEFT | 2 | | | 2 | |
| 6 | 872+95.00 | RIGHT & LEFT | 2 | | | 2 | |
| 6 | 874+40.00 | RIGHT & LEFT | 2 | | | 2 | |
| 6 | 875+51.00 | RIGHT | 1 | | | 1 | |
| 6 | 875+55.00 | LEFT | 1 | | | 1 | |
| 6 | 878+00.00 - 878+10.00 | RIGHT | | | 10 | 0.1 | |
| 6 | 878+38.00 - 878+96.00 | RIGHT | | | 86 | 0.9 | |
| 6 | 878+05.00 | LEFT | 1 | | | 1 | |
| 6 | 879+01.00 - 879+70.00 | RIGHT | | | 69 | 0.7 | |
| 6 | 879+25.00 | LEFT | 1 | | | 1 | |
| 6 | 879+40.00 | LEFT | | 8 | | 1 | PLACE IN SIDEROAD DITCH |
| 6 | 879+70.00 | LEFT | | 8 | | 1 | PLACE IN SIDEROAD DITCH |
| 6 | 879+75.00 - 881+11.00 | RIGHT | | | 136 | 1.4 | |
| 6 | 879+90.00 | LEFT | 1 | | | 1 | |
| 6 | 880+20.00 | RIGHT | 1 | | | 1 | |
| 6 | 880+80.00 | LEFT | 1 | | | 1 | |
| 6 | 881+31.00 - 882+33.00 | RIGHT | | | 102 | 1 | |
| 6 | 881+80.00 | RIGHT & LEFT | 2 | | | 2 | |
| 6 | 882+38.00 - 883+90.00 | RIGHT | | | 152 | 1.6 | |
| 6 | 882+45.00 | LEFT | | 8 | | 1 | PLACE IN SIDEROAD DITCH |
| 6 | 882+80.00 | LEFT | | 8 | | 1 | PLACE IN SIDEROAD DITCH |
| 6 | 883+00.00 | LEFT | 1 | | | 1 | |
| 6 | 883+90.00 | RIGHT & LEFT | 2 | | | 2 | |
| 6 | 884+25.00 - 885+00.00 | RIGHT | | | 75 | 0.8 | |
| 6 | 885+20.00 | LEFT | 1 | | | 1 | |
| 6 | 886+00.00 - 886+41.00 | LEFT | | | 41 | 0.4 | |
| 6 | 886+00.00 - 886+80.00 | RIGHT | | | 80 | 0.8 | |
| 6 | 886+50.00 | LEFT | 1 | | | 1 | |
| 6 | 886+50.00 | LEFT | | 8 | | 1 | PLACE IN FRONT OF CULVERT |
| 6 | 866+83.00 | RIGHT | 1 | | | 1 | |
| 6 | 866+86.00 | RIGHT | | 8 | | 1 | PLACE IN FRONT OF CULVERT |
| 6 | 886+83.00 - 887+14.00 | LEFT | | | 31 | 0.3 | |
| 6 | 887+18.00 - 888+37.00 | RIGHT | | | 119 | 1.2 | |
| 6 | 888+40.00 | RIGHT & LEFT | 2 | | | 2 | |
| 6 | 888+40.00 | LEFT | | 24 | | 3 | PLACE DITCH CHECKS AROUND END OF CULVERT |
| 6 | 889+67.00 | RIGHT | 1 | | | 1 | |
| 6 | 890+18.00 | RIGHT | | 12 | | 1 | PLACE IN FRONT OF CULVERT |
| 6 | 890+20.00 | LEFT | | 12 | | 1 | PLACE IN FRONT OF CULVERT |
| | | TOTALS | 29 | 228 | 961 | 61.8 | |
| | | PAY TOTALS | 29 | 228 | 961 | 62 | |

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK 1 CY PER SEDIMENT TRAP AND 1 CY PER 100' OF SILT FENCE.

SUMMARY OF QUANTITIES
SHEET 8 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## PERMANENT EROSION CONTROL

| ROUTE | STA. | STA. | LOCATION | SEEDING - COOL SEASON MIXTURES | TURF TYPE FESCUE SOD SQ. YARDS | REMARKS |
|---|---|---|---|---|---|---|
| 6 | 861+67.00 | 862+68.00 | LT | 0.02 | | |
| 6 | 861+67.00 | 862+68.00 | RT | 0.05 | | |
| 6 | 862+68.00 | 866+02.00 | LT | 0.11 | 387.44 | SOD FOR OUTLET DITCH ON PARCEL 2 |
| 6 | 863+45.00 | 864+75.00 | RT | 0.03 | | |
| 6 | 864+50.00 | 867+10 | RT | 0.04 | | |
| 6 | 866+30.00 | 869+00.00 | RT | | 382.49 | |
| 6 | 866+35.00 | 869+00.00 | LT | | 177.01 | |
| 6 | 869+20.00 | 870+60.00 | RT | | 195.33 | |
| 6 | 869+20.00 | 871+15.00 | LT | | 98.12 | |
| 6 | 870+80.00 | 871+20.00 | RT | | 62.16 | |
| 6 | 871+25.00 | 872+45.00 | LT | | 162.51 | |
| 6 | 872+05.00 | 873+20.00 | RT | | 91.73 | |
| 6 | 872+60.00 | 873+32.00 | LT | | 41.98 | |
| 6 | 873+48.00 | 874+85.00 | RT | | 47.49 | |
| 6 | 873+50.00 | 874+60.00 | LT | | 70.17 | |
| 6 | 874+75.00 | 875+42.00 | LT | | 41.68 | |
| 6 | 874+80.00 | 874+95.00 | RT | | 5.88 | ISLANDS NEXT TO ADA RAMP |
| 6 | 875+19.00 | 875+70.00 | RT | | 20.84 | ISLANDS NEXT TO ADA RAMP |
| 6 | 875+35.00 | 845+50.00 | LT | | 4.94 | ISLANDS NEXT TO ADA RAMP |
| 6 | 875+96.00 | 876+19.00 | LT | | 13.38 | ISLANDS NEXT TO ADA RAMP |
| 6 | 876+50.00 | 876+68.00 | LT | | 8.70 | ISLANDS NEXT TO ADA RAMP |
| 6 | 877+24.00 | 877+47.00 | LT | | 10.29 | ISLANDS NEXT TO ADA RAMP |
| 6 | 877+95.00 | 878+16.00 | RT | | 19.74 | |
| 6 | 877+95.00 | 879+50.00 | LT | | 86.77 | |
| 6 | 878+35.00 | 881+10.00 | RT | | 188.02 | |
| 6 | 879+65 | 881+02.00 | LT | | 138.41 | |
| 6 | 881+10.00 | 882+52.00 | RT | | 363.23 | |
| 6 | 882+70.00 | 884+42.00 | LT | | 345.04 | |
| 6 | 884+25.00 | 886+95.00 | RT | | 327.57 | |
| 6 | 885+50.00 | 886+72.00 | LT | | 135.80 | |
| 6 | 886+80.00 | 890+10.00 | LT | | 767.09 | |
| 6 | 887+10.00 | 889+90.00 | RT | | 406.22 | |
| 6 | 890+15.00 | 892+76.00 | RT | 0.05 | | |
| 6 | 890+10.00 | 892+76.00 | LT | 0.08 | | |
| | | TOTALS | | 0.38 | 4600.0 | |
| | | PAY TOTALS | | 1.0 ACRE | 4600 | |

## PAVEMENT MARKING

| RTE. | STATION | STATION | DESCRIPTION OF LOCATION | PREFORMED THERMOPLASTIC PAVEMENT MARKING, 6 IN. WHITE (LF) | HIGH BUILD WATERBORNE PAVEMENT MARKING, 6 IN. WHITE TYPE L BEADS (LF) | HIGH BUILD WATERBORNE PAVEMENT MARKING, 4 IN. YELLOW TYPE L BEADS (LF) | PREFORMED THERMOPLASTIC PAVEMENT MARKING, 30 IN. WHITE MIDBLOCK (EA) | PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE (LF) | TEMPORARY REMOVABLE PAVEMENT MARKING, 24 IN. WHITE (LF) | TEMPORARY RAISED PAVEMENT MARKERS (EA) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 861+19.05 | 861+66.00 | BEGIN PROJECT CENTERLINE | | | 94 | | | | | DOUBLE YELLOW STRIPE |
| 6 | 861+19.06 | 873+00.00 | BEGIN PROJECT CENTERLINE TO PLAN SHEET MATCH LINE | | | | | | | 30 | TEMP. PAVEMENT MARKERS |
| 6 | 861+66.00 | 866+35.00 | NORTH OF IVIE STREET THROUGH CLEVELAND STREET LT. | | 516 | | | | | | SOLID WHITE EDGE LINE |
| 6 | 861+66.00 | 866+35.00 | SOUTH OF IVIE STREET THROUGH CLEVELAND STREET RT. | | 516 | | | | | | SOLID WHITE EDGE LINE |
| 6 | 861+66.00 | 866+35.00 | BEGIN PROJECT THROUGH CLEVELAND STREET | | | | | | | 26 | TEMP. PAVEMENT MARKERS |
| 6 | 861+66.00 | 869+00.00 | BEGIN PROJECT TO OKLAHOMA STREET LT. | | | 734 | | | | | SINGLE SOLID YELLOW |
| 6 | 861+66.00 | 869+00.00 | BEGIN PROJECT TO OKLAHOMA STREET RT. | | | 180 | | | | | INTERMITTENT YELLOW |
| 6 | 869+00.00 | 873+00.00 | OKLAHOMA STREET TO PLAN SHEET MATCH LINE | | | 100 | | | | | INTERMITTENT YELLOW |
| 6 | 873+00.00 | 885+00.00 | PLAN SHEET MATCH LINES | | | 300 | | | | | INTERMITTENT YELLOW |
| 6 | 873+00.00 | 885+00.00 | PLAN SHEET MATCH LINES | | | | | | | 30 | TEMP. PAVEMENT MARKERS |
| 6 | 875+05.21 | 0+00.00 FF | BEGIN ROUTE FF THROUGH MATCHLINE J1P3239 | 53 | | | | | | | PEDESTRIAN CROSSING |
| 6 | 875+05.21 | 0+00.00 FF | BEGIN ROUTE FF THROUGH MATCHLINE J1P3240 | | | | | 12 | | | STOP LINE |
| 6 | 875+05.21 | 876+35.00 | ROUTE FF THROUGH ROUTE D | | | | 5 | | | | PEDESTRIAN CROSSING |
| 6 | 876+35.00 | 0+00.00 D | BEGIN ROUTE D THROUGH MATCHLINE J1P3239 | | | | | 12 | | | STOP LINE |
| 6 | 876+35.00 | 0+00.00 D | BEGIN ROUTE D THROUGH MATCHLINE J1P3240 | | | 12 | | | | | DOUBLE YELLOW STRIPE |
| 6 | 876+35.00 | 0+00.00 D | BEGIN ROUTE D THROUGH MATCHLINE J1P3241 | 44 | | | | | | | PEDESTRIAN CROSSING |
| 6 | 885+00.00 | 886+10.00 | PLAN SHEET MATCH LINE TO BEGIN SOLID YELLOW | | | 28 | | | | | INTERMITTENT YELLOW |
| 6 | 886+10.00 | 890+29.05 | BEGIN SOLID YELLOW TO END OF MARKINGS LT | | | 105 | | | | | INTERMITTENT YELLOW |
| 6 | 886+10.00 | 890+29.05 | BEGIN SOLID YELLOW TO END OF MARKINGS RT | | | 419 | | | | | SINGLE SOLID YELLOW |
| 6 | 886+10.00 | 890+29.05 | BEGIN SOLID YELLOW TO END OF MARKINGS | | | | | | | 13 | TEMP. PAVEMENT MARKERS |
| 6 | | | TEMPORARY STOP LINES | | | | | | 24 | | TEMP SIGNAL STOP LINE |
| | | | TOTALS | 97 | 1032 | 1972 | 5 | 24 | 24 | 99 | |
| | | | PAY TOTALS | 97 | 1032 | 1972 | 5 | 24 | 24 | * | |

* TEMPORARY RAISED PAVEMENT MARKERS HAVE NO DIRECT PAY

SUMMARY OF QUANTITIES
SHEET 9 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

EFFECTIVE: 10-01-2019

## WARNING SIGNS

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL AREA SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| W01-1L | 48X48 | 16.00 | | | | | | TURN (SYMBOL LEFT ARROW) |
| W01-1R | 48X48 | 16.00 | | | | | | TURN (SYMBOL RIGHT ARROW) |
| W01-2L | 48X48 | 16.00 | | | | | | CURVE (SYMBOL LEFT ARROW) |
| W01-2R | 48X48 | 16.00 | | | | | | CURVE (SYMBOL RIGHT ARROW) |
| W01-3L | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL LEFT ARROW) |
| W01-3R | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL RIGHT ARROW) |
| W01-4L | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL LEFT ARROW) |
| W01-4R | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL RIGHT ARROW) |
| W01-4bL | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4bR | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-4cL | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4cR | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-6 | 60X30 | 12.50 | | | | | | HORIZONTAL ARROW (SYMBOL) |
| W01-6a | 72X36 | 18.00 | | | | | | HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE) |
| W01-7 | 60X30 | 12.50 | | | | | | DOUBLE HEAD HORIZONTAL ARROW (SYMBOL) |
| W01-7a | 72X36 | 18.00 | | | | | | DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.) |
| W01-8 | 18X24 | 3.00 | | | | | | CHEVRON (SYMBOL) |
| W01-8a | 30X36 | 7.50 | | | | | | CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) |
| W03-1 | 48X48 | 16.00 | | | | | | STOP AHEAD (SYMBOL) |
| W03-2 | 48X48 | 16.00 | | | | | | YIELD AHEAD (SYMBOL) |
| W03-3 | 48X48 | 16.00 | | | | | | SIGNAL AHEAD (SYMBOL) |
| W03-4 | 48X48 | 16.00 | 2 | 32.00 | | | 5 | BE PREPARED TO STOP |
| W03-5 | 48X48 | 16.00 | | | | | | SPEED LIMIT AHEAD |
| W04-1L | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM LEFT) |
| W04-1R | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM RIGHT) |
| W04-1aL | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W04-1aR | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W05-1 | 48X48 | 16.00 | | | | | | ROAD/BRIDGE/RAMP NARROWS |
| W05-3 | 48X48 | 16.00 | | | | | | ONE LANE BRIDGE |
| W05-5 | 48X48 | 16.00 | | | | | | NARROW LANES |
| W06-1 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY (SYMBOL) |
| W06-2 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY END (SYMBOL) |
| W06-3 | 48X48 | 16.00 | | | | | | TWO WAY TRAFFIC (SYMBOL) |
| W07-3a | 30X24 | 5.00 | | | | | | NEXT XX MILES (PLAQUE) |
| W08-1 | 48X48 | 16.00 | 2 | 32.00 | | | 16 | BUMP |
| W08-2 | 48X48 | 16.00 | | | | | | DIP |
| W08-3 | 48X48 | 16.00 | | | | | | PAVEMENT ENDS |
| W08-4 | 48X48 | 16.00 | | | | | | SOFT SHOULDER |
| W08-5 | 48X48 | 16.00 | | | | | | SLIPPERY WHEN WET (SYMBOL) |
| W08-6 | 48X48 | 16.00 | | | | | | TRUCK CROSSING |
| W08-6c | 48X48 | 16.00 | | | | | | TRUCK ENTRANCE |
| W08-7 | 36X36 | 9.00 | | | | | | LOOSE GRAVEL |
| W08-7a | 36X36 | 9.00 | | | | | | FRESH OIL/LOOSE GRAVEL |
| W08-9 | 48X48 | 16.00 | | | | | | LOW SHOULDER |
| W08-11 | 48X48 | 16.00 | | | | | | UNEVEN LANES |
| W08-12 | 48X48 | 16.00 | | | | | | NO CENTER LINE |
| W08-15 | 48X48 | 16.00 | | | | | | GROOVED PAVEMENT |
| W08-15P | 30X24 | 5.00 | | | | | | MOTORCYCLE (PLAQUE) |
| W08-17 | 48X48 | 16.00 | | | | | | SHOULDER DROP-OFF (SYMBOL) |
| W08-17P | 30X24 | 5.00 | | | | | | SHOULDER DROP-OFF (PLAQUE) |
| W10-1 | 42RND. | 9.62 | | | | | | RAILROAD CROSSING |
| W012-1 | 24X24 | 4.00 | | | | | | DOUBLE DOWN ARROW (SYMBOL) |
| W012-2 | 48X48 | 16.00 | | | | | | LOW CLEARANCE (SYMBOL) |
| W012-2X | 24X18 | 3.00 | | | | | | LOW CLEARANCE (PLAQUE) |
| W012-2a | 84X24 | 14.00 | | | | | | OVERHEAD LOW CLEARANCE (FEET AND INCHES) |
| W012-4 | 120X60 | 50.00 | | | | | | LOW CLEARANCE XX FT XX IN XX MILES AHEAD |
| W012-5 | 120X60 | 50.00 | | | | | | WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD |
| W013-1 | 30X30 | 6.25 | | | | | | ADVISORY SPEED (PLAQUE) |
| W016-2 | 30X24 | 5.00 | 2 | 10.00 | | | | 500 FEET (PLAQUE) |
| W016-3 | 30X24 | 5.00 | | | | | | X MILE (PLAQUE) |
| W020-1 | 48X48 | 16.00 | 2 | 32.00 | | | 1 | ROAD/BRIDGE/RAMP WORK AHEAD |
| W020-2 | 48X48 | 16.00 | | | | | | DETOUR AHEAD |
| W020-3 | 48X48 | 16.00 | 2 | 32.00 | | | 8 | ROAD CLOSED AHEAD |
| W020-4 | 48X48 | 16.00 | 2 | 32.00 | | | 3 | ONE LANE ROAD AHEAD |
| W020-5 | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED AHEAD |
| W020-5a | 48X48 | 16.00 | | | | | | 2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD |
| W020-6a | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED |
| W020-7a | 48X48 | 16.00 | 2 | 32.00 | | | 4 | FLAGGER (SYMBOL) WITH FLAGS |
| W021-2 | 36X36 | 9.00 | | | | | | FRESH OIL |
| W021-5 | 48X48 | 16.00 | | | | | | SHOULDER WORK AHEAD |
| W022-1 | 48X48 | 16.00 | | | | | | BLASTING ZONE AHEAD |
| W022-2 | 42X36 | 10.50 | | | | | | TURN OFF 2-WAY RADIO AND PHONE |
| W022-3 | 42X36 | 10.50 | | | | | | END BLASTING ZONE |
| G022-1 | 21X15 | 2.19 | 1 | 2.19 | | | | WET PAINT (ARROW PIVOTS) |

## GUIDE SIGNS

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| E05-1 | 36X48 | 12.00 | | | | | | GORE EXIT |
| E05-2 | 48X36 | 12.00 | | | | | | EXIT OPEN |
| E05-2a | 48X36 | 12.00 | | | | | | EXIT CLOSED |
| G020-1 | 60X24 | 10.00 | | | | | | ROAD WORK NEXT XX MILES |
| G020-2 | 48X24 | 8.00 | | | | | | END ROAD WORK |
| G020-4 | 36X18 | 4.50 | | | | | | PILOT CAR FOLLOW ME |
| G020-4a | 42X30 | 8.75 | | | | | | PLEASE WAIT FOR PILOT CAR |
| G020-5aP | 36X24 | 6.00 | | | | | | WORK ZONE (PLAQUE) |
| M04-8a | 24X18 | 3.00 | | | | | | END DETOUR |
| M04-9L | 48X36 | 12.00 | 1 | 12.00 | | | 14 | DETOUR (LEFT ARROW) |
| M04-9R | 48X36 | 12.00 | 1 | 12.00 | | | 15 | DETOUR (RIGHT ARROW) |
| M04-9P | 48X12 | 4.00 | | | | | | STREET NAME (PLAQUE) |
| M04-10L | 48X18 | 6.00 | | | | | | DETOUR (ARROW LEFT) |
| M04-10R | 48X18 | 6.00 | | | | | | DETOUR (ARROW RIGHT) |

## REGULATORY SIGNS

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| R1-1 | 48X48 | 13.25 | | | | | | STOP |
| R1-2 | 48TRI. | 6.93 | | | | | | YIELD |
| R1-2a | 36X36 | 9.00 | | | | | | TO ONCOMING TRAFFIC (PLAQUE) |
| R1-3P | 30X12 | 2.50 | | | | | | ALL WAY (PLAQUE) |
| R2-1 | 36X48 | 12.00 | 2 | 24.00 | | | 7 | SPEED LIMIT 55 |
| R3-1 | 48X48 | 16.00 | | | | | | NO RIGHT TURN (SYMBOL) |
| R3-2 | 48X48 | 16.00 | | | | | | NO LEFT TURN (SYMBOL) |
| R3-3 | 36X36 | 9.00 | | | | | | NO TURNS |
| R3-4 | 48X48 | 16.00 | | | | | | NO U-TURN (SYMBOL) |
| R3-7L | 30X30 | 6.25 | | | | | | LEFT LANE MUST TURN LEFT |
| R3-7R | 30X30 | 6.25 | | | | | | RIGHT LANE MUST TURN RIGHT |
| R4-1 | 36X48 | 12.00 | | | | | | DO NOT PASS |
| R4-2 | 36X48 | 12.00 | | | | | | PASS WITH CARE |
| R4-8a | 36X48 | 12.00 | | | | | | KEEP LEFT (HORIZONTAL ARROW) |
| R4-7a | 36X48 | 12.00 | | | | | | KEEP RIGHT (HORIZONTAL ARROW) |
| R5-1 | 30X30 | 6.25 | | | | | | DO NOT ENTER |
| R5-1a | 36X24 | 6.00 | | | | | | WRONG WAY |
| R6-1L | 54X18 | 6.75 | | | | | | ONE WAY ARROW (LEFT) |
| R6-1R | 54X18 | 6.75 | | | | | | ONE WAY ARROW (RIGHT) |
| R6-2L | 24X30 | 5.00 | | | | | | ONE WAY (LEFT) |
| R6-2R | 24X30 | 5.00 | | | | | | ONE WAY (RIGHT) |
| R9-9 | 24X12 | 2.00 | 4 | 8.00 | | | 12 | SIDEWALK CLOSED |
| R9-11L | 24X18 | 3.00 | 2 | 6.00 | | | 13a | SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE |
| R9-11R | 24X18 | 3.00 | 2 | 6.00 | | | 13b | SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE |
| R10-6 | 24X36 | 6.00 | 2 | 12.00 | | | 6 | STOP HERE ON RED (45° ARROW) |
| R11-2 | 48X30 | 10.00 | 2 | 20.00 | | | 11 | ROAD CLOSED |
| R11-3a | 60X30 | 12.50 | | | | | | ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY |
| R11-4 | 60X30 | 12.50 | 2 | 25.00 | | | 10 | ROAD CLOSED TO THRU TRAFFIC |
| CONST-3A | 60X48 | 20.00 | | | | | | FINE SIGN |
| CONST-3X | 56X12 | 4.67 | | | | | | SPEEDING/PASSING (PLATE) |

## MISCELLANEOUS SIGNS

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| CONST-5 | 48X36 | 12.00 | | | | | | POINT OF PRESENCE |
| CONST-5 | 96X48 | 32.00 | 2 | 64.00 | | | | POINT OF PRESENCE |
| CONST-7 | 48X24 | 8.00 | | | | | | RATE OUR WORK ZONE |
| CONST-7 | 72X36 | 18.00 | 2 | 36.00 | | | | RATE OUR WORK ZONE |
| CONST-8 | 48X36 | 12.00 | | | | | | WORK ZONE NO PHONE ZONE |
| | | | | | | | | |
| W08-24 | 48X48 | 16.00 | 2 | 32.00 | | | 17 | STEEL PLATE AHEAD |

| 616-10.05 CONSTRUCTION SIGNS | TOTAL |
|---|---|
| | 462 |

| 616-10.10 RELOCATED SIGNS | TOTAL |
|---|---|
| | 0 |

| ITEM NUMBER | TOTAL EACH | DESCRIPTION |
|---|---|---|
| 6122008 | | IMPACT ATTENUATOR 40 MPH (SAND BARRELS) |
| 6122009 | | IMPACT ATTENUATOR 45 MPH (SAND BARRELS) |
| 6122010 | | IMPACT ATTENUATOR 50 MPH (SAND BARRELS) |
| 6122012 | | IMPACT ATTENUATOR 55 MPH (SAND BARRELS) |
| 6122014 | | IMPACT ATTENUATOR 60 MPH (SAND BARRELS) |
| 6122017 | | IMPACT ATTENUATOR 65 MPH (SAND BARRELS) |
| 6122019 | | IMPACT ATTENUATOR 70 MPH (SAND BARRELS) |
| 6122020 | | REPLACEMENT SAND BARREL |
| 6122030 | | IMPACT ATTENUATOR (RELOCATION) |
| 6123000A | 2 | TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA) |
| 6161007 | | SPEED LIMIT AND STROBE LIGHT ASSEMBLY |
| 6161008 | 2 | ADVANCED WARNING RAIL SYSTEM |
| 6161009 | 6 | FLAG ASSEMBLY |
| 6161012 | | BUOYS (BOATS KEEP OUT) |
| 6161013 | | BUOYS (NO WAKE) |
| 6161014 | | SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT) |
| 6161024 | | CHANNELIZER (TRIM LINE) WITH LIGHT |
| 6161025 | 32 | CHANNELIZER (TRIM LINE) |
| 6161030 | 2 | TYPE III MOVEABLE BARRICADE |
| 6161031 | 6 | TYPE III MOVEABLE BARRICADE WITH LIGHT |
| 6161033 | | DIRECTION INDICATOR BARRICADE |
| 6161034 | | DIRECTION INDICATOR BARRICADE, WITH LIGHT |
| 6161040 | 2 | FLASHING ARROW PANEL |
| 6161047 | | TYPE III OBJECT MARKER |
| 6161052 | | WARNING LIGHT, TYPE B |
| 6161055 | | SEQUENTIAL FLASHING WARNING LIGHT |
| 6161070 | | TUBULAR MARKER |
| 6161095 | | RADAR SPEED ADVISORY SYSTEM |
| 6161096 | | CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED |
| 6161098A | 2 | CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6161099 | | CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6162000A | 1 | WORK ZONE TRAFFIC SIGNAL SYSTEM |
| 6162002 | | TEMPORARY LONG-TERM RUMBLE STRIPS |
| 6162004 | | TEMPORARY SHORT-TERM RUMBLE STRIPS |
| 6162010 | | WORK ZONE LIGHTING |
| 6173600D | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED |
| 6173602B | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED |
| 6174000A | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION |
| 6175010A | | RELOCATING TEMPORARY TRAFFIC BARRIER |
| 6176000B | | TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED |
| 6177000B | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED |
| 6208064A | | TEMPORARY RAISED PAVEMENT MARKER |
| 9029400 | | TEMPORARY TRAFFIC SIGNALS |
| 9029401 | | TEMPORARY TRAFFIC SIGNALS AND LIGHTING |
| 61699.01 | 4 | PEDESTRIAN BARRICADE |
| | | |
| | | |

SUMMARY OF QUANTITIES
SHEET 10 OF 10

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| NO. | DESCRIPTION | DATE |
|---|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

EX. SIDEWALK (R)
RAMP/LANDING
SIDEWALK
TRUNCATED DOMES
– 3" CONC.MEDIAN
GRAVEL
(S) SIDEWALK SECTION
(R) RAMP
(T) TRANSITION
(L) LANDING

BEGIN PROJECT AT STA.861+19.05 ℄ ROUTE 6 FEDERAL IMPROVEMENT BEGINS AT A POINT LOCATED 2,656.72' NORTH AND 1,396.12' WEST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2" IRON ROD, MLS DOC 600-101612

1. RIGHT OF WAY LIMITS FOR THIS SECTION EXTEND FROM STA. 861+19.05 TO STA. 890+29.05, A DISTANCE OF 0.551 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE STATE PLANE BEARING, NAD83, CENTRAL ZONE
4. FOR STORMWATER DISCHARGES AND TEMPORARY EROSION CONTROL, THE PROJECT OUTLETS INTO A BRANCH OF MUSSEL FORK (RECEIVING WATER).
5. ALL CURB RAMPS AND SIDEWALK WITHIN THE PROJECT LIMITS AND STATE RIGHT-OF-WAY THAT ARE SHOWN TO USE IN PLACE SHALL BE FIELD VERIFIED FOR COMPLIANCE BY THE CONTRACTOR. IF AREAS ARE FOUND TO BE NON-COMPLIANT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
6. UNLESS DIRECTED BY THE ENGINEER, EROSION CONTROL SHALL BE LIMITED TO DEVICES INCLUDED IN THE CONTRACT.

CERTIFIED LAND CORNER
STA 861+19.05 CENTERLINE OF ROUTE 6 IS LOCATED 3001.22' N 27°43'20" W OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2" IRON ROD, MLS DOC 600-101612.

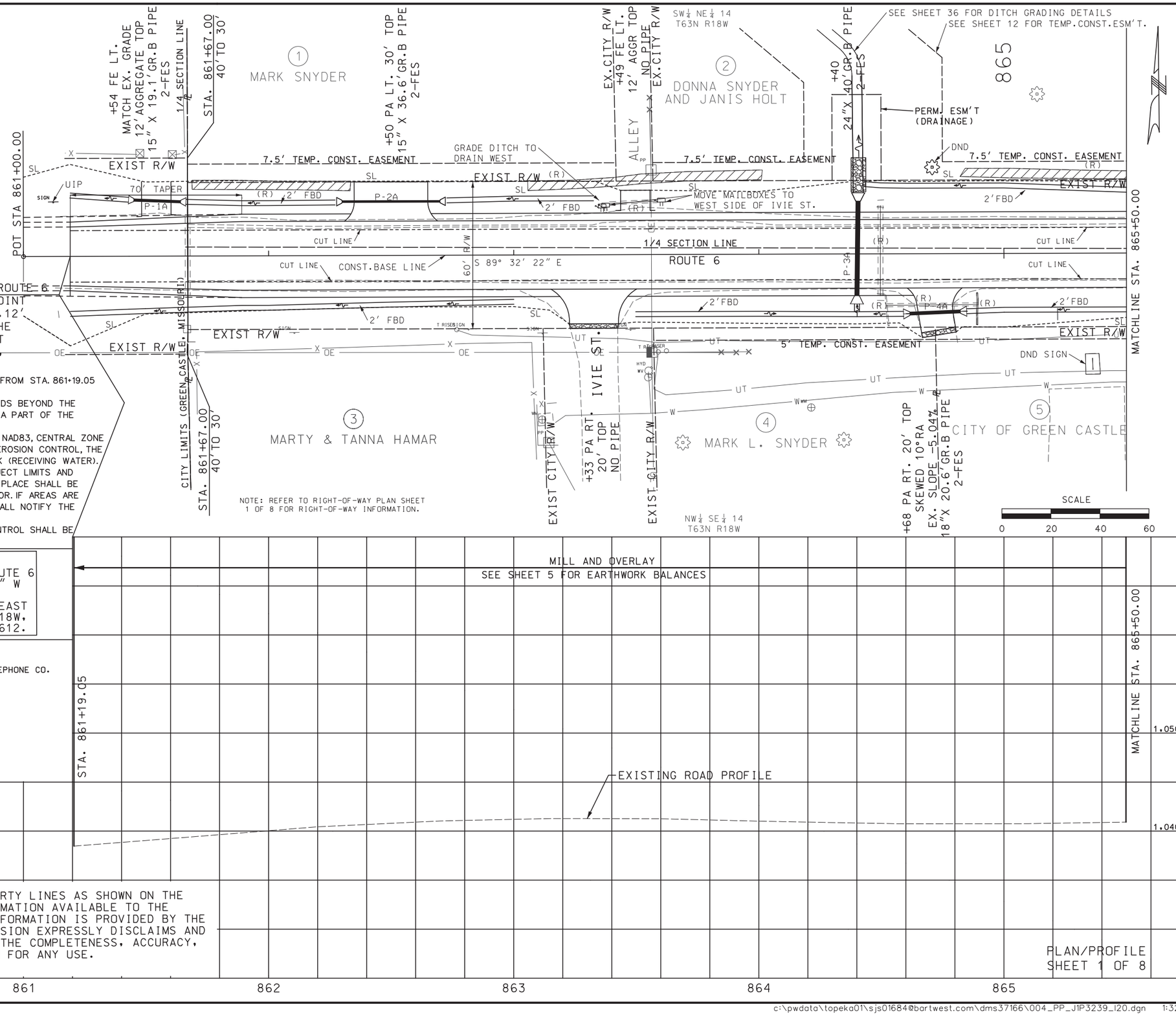
## UTILITY CONTACTS

CITY OF GREEN CASTLE
355 FRONT STREET
GREEN CASTLE, MO 63544
CONTACT:
(660) 874-4717

NE MISSOURI RURAL TELEPHONE CO.
P.O. BOX 98
GREEN CITY, MO 63545
CONTACT:
(660) 874-4111

AMEREN MISSOURI ELECTRIC
P.O. BOX 790352
ST. LOUIS, MO 63179-0352
CONTACT:
(866) 992-6619

THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS AND REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE.




PLAN/PROFILE
SHEET 1 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 4
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

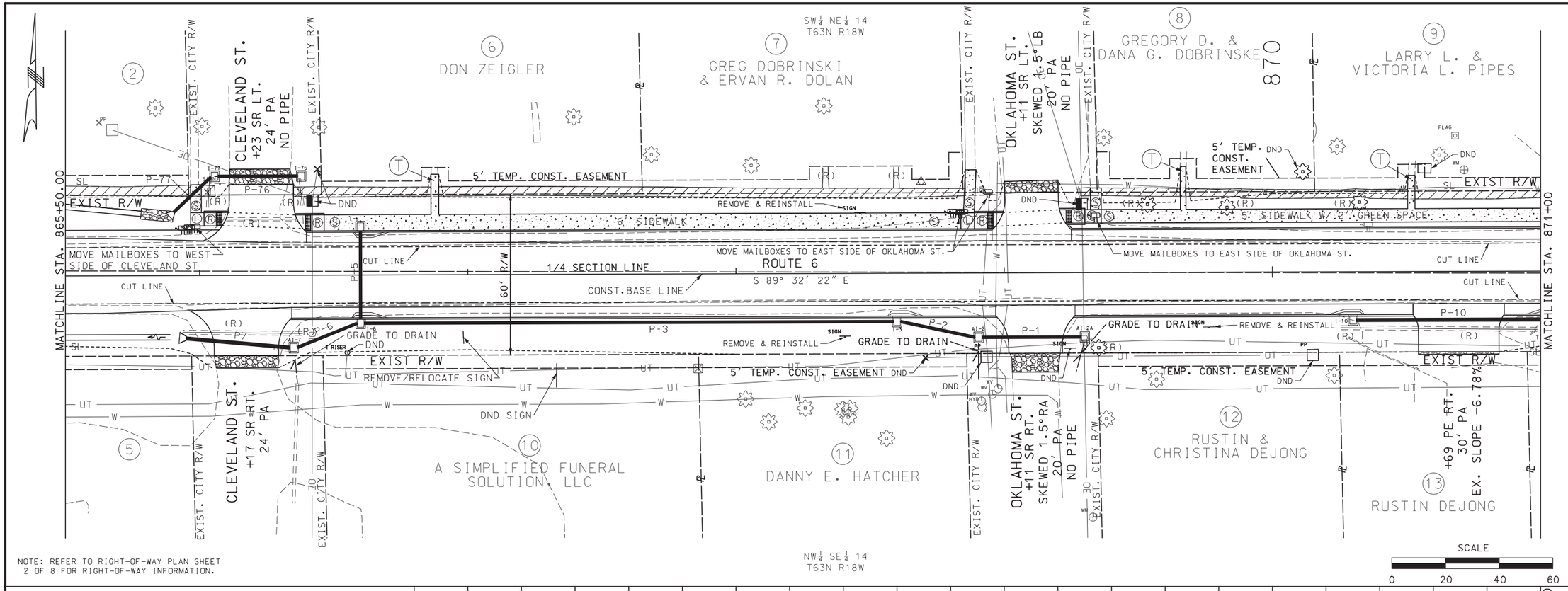
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

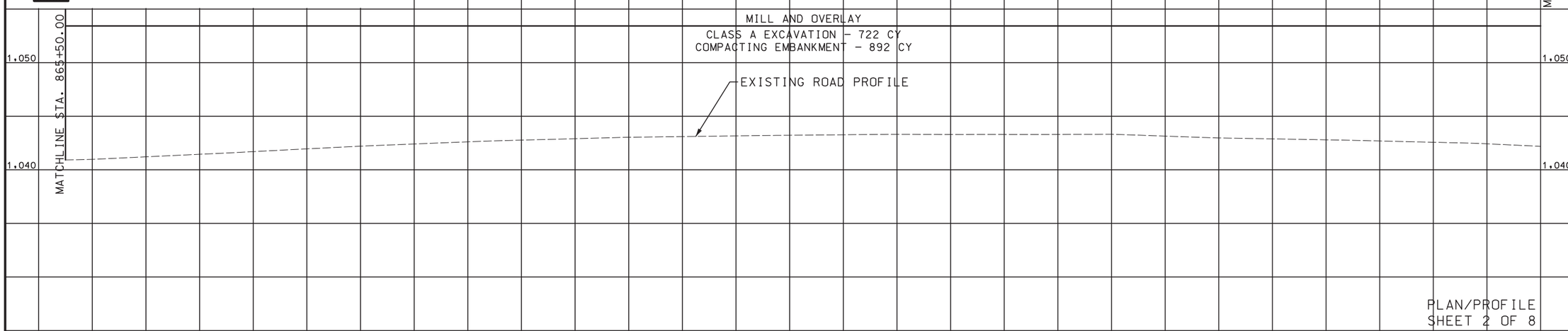
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

REV.




NOTE: REFER TO RIGHT-OF-WAY PLAN SHEET 2 OF 8 FOR RIGHT-OF-WAY INFORMATION.

- EX. SIDEWALK (R)
- RAMP/LANDING
- SIDEWALK
- TRUNCATED DOMES
- 3" CONC. MEDIAN
- GRAVEL
- (S) SIDEWALK SECTION
- (R) RAMP
- (T) TRANSITION
- (L) LANDING




PLAN/PROFILE
SHEET 2 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 5 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DATE | DESCRIPTION |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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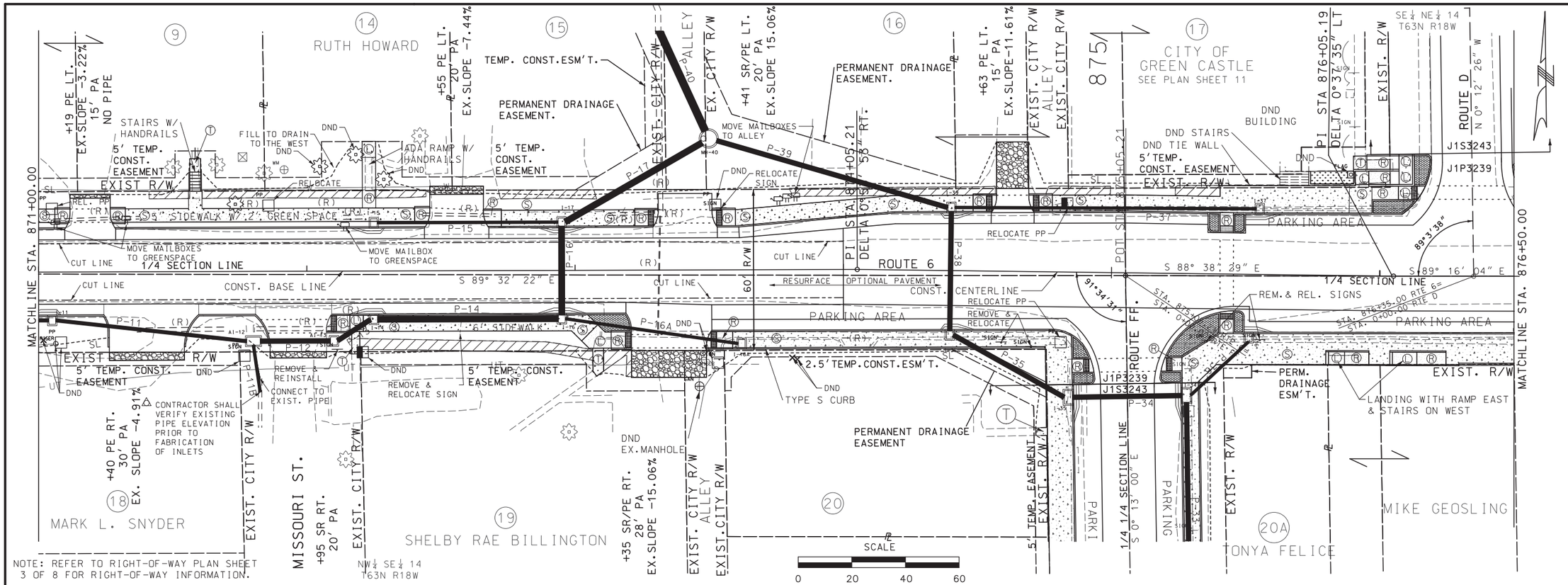
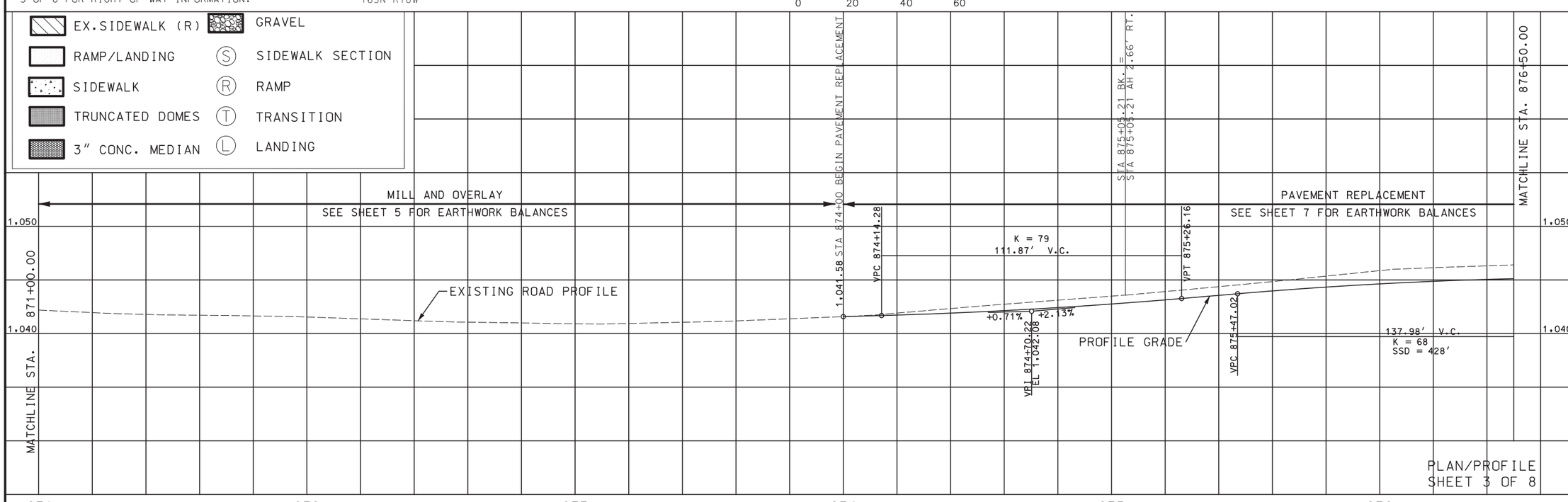
WWW.BARTWEST.COM

REV.




EX.SIDEWALK (R) | GRAVEL
RAMP/LANDING | (S) SIDEWALK SECTION
SIDEWALK | (R) RAMP
TRUNCATED DOMES | (T) TRANSITION
3" CONC. MEDIAN | (L) LANDING




STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 6 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DATE | DESCRIPTION | REV. |
|---|---|---|

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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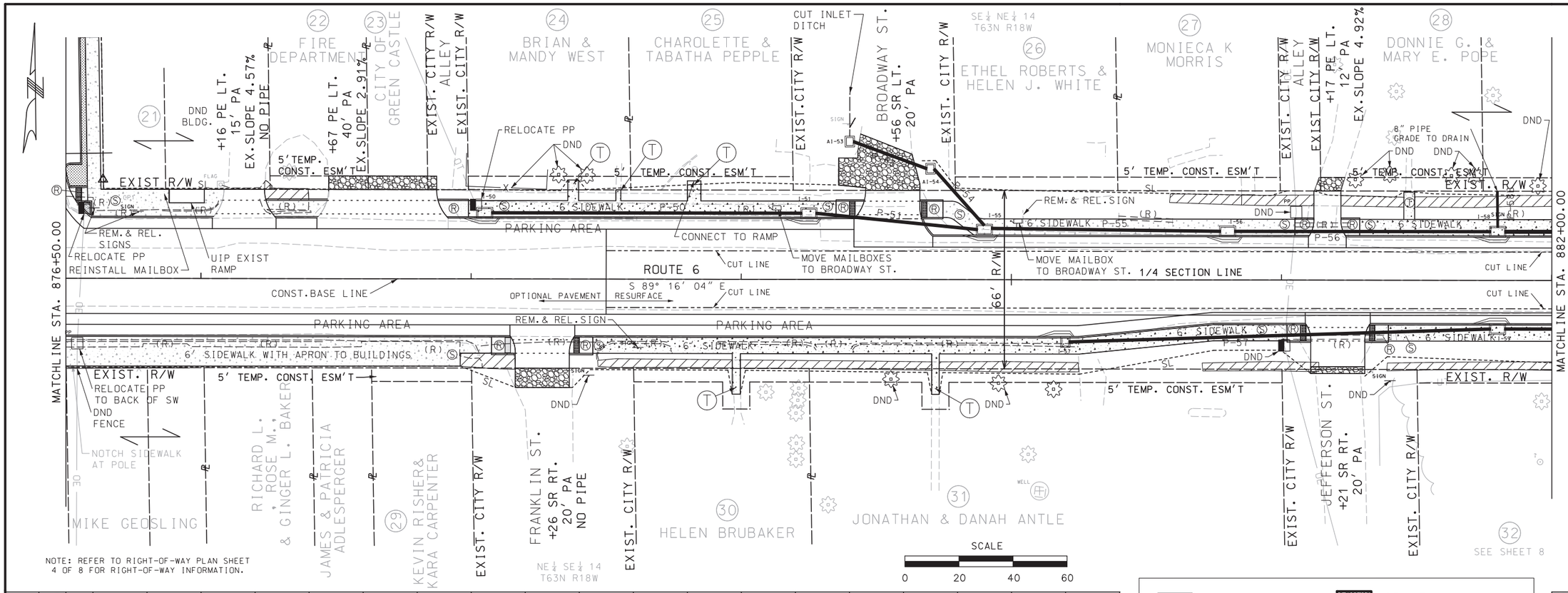


STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/3/2020

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 7 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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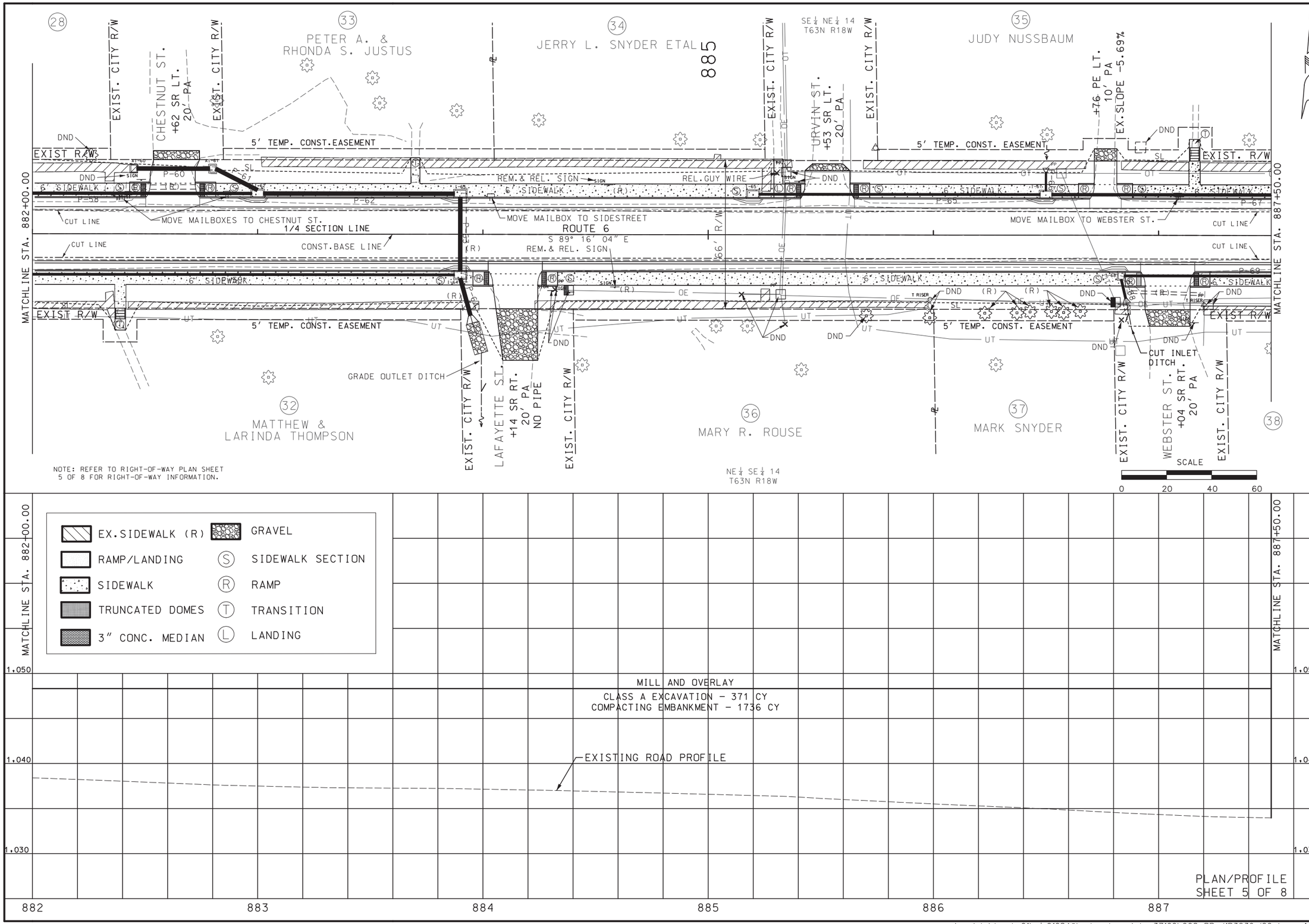
REV.




NOTE: REFER TO RIGHT-OF-WAY PLAN SHEET 5 OF 8 FOR RIGHT-OF-WAY INFORMATION.




PLAN/PROFILE
SHEET 5 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 8/12/2019 |
| ROUTE | 6 |
| STATE | MO |
| DISTRICT | NW |
| SHEET NO. | 8 |
| COUNTY | SULLIVAN |
| JOB NO. | J1P3239 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REV.

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SE¼ NE¼ 14
T63N R18W

SW¼ NW¼ 13
T63N R18W

| CURVE EXRTE_6_E_3 | |
|---|---|
| PI | 894+53.42 |
| PC | 889+09.07 |
| PT | 899+44.97 |
| Δ | 43° 29′ 52.3″ (RT) |
| D | 4° 11′ 56.5″ |
| L | 1,035.90′ |
| T | 544.35′ |
| R | 1,364.50′ |

| CURVE RTE_6_CONST | |
|---|---|
| PI | 894+53.48 |
| PC | 888+65.04 |
| PT | 899+84.83 |
| Δ | 43° 29′ 52.3″ (RT) |
| D | 3° 53′ 04.06″ |
| L | 1,119.79′ |
| T | 588.43′ |
| R | 1,475.00′ |

35

SEE SHEET 8

EXIST. CITY R/W

SECTION LINE

EXIST. CITY R/W

PC STA. 888+65.04

890 +13 PE LT. 10′ PA EX.SLOPE -8.39%

39

KYLE D. HIGGINS

MOVE MAILBOXES EAST TO GRASS AREA

DND

EXIST. R/W

SL

REM. & REL. SIGN

6' SIDEWALK

5' TEMP.CONST.ESM'T.

GRADE TO DRAIN

EXIST. R/W

STA. 890+29.20 SURVEY ℄ =
STA. 890+29.05 CONST. ℄ RTE.6 3.84′ RT

CERTIFIED LAND CORNER
STA 890+29.24 CENTERLINE OF ROUTE 6 IS LOCATED 3,024.23′ N 30°02′03″E OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2″ IRON ROD MONUMENT PER MLS DOC 600-101612

MATCHLINE STA. 887+50.00

66′ R/W

CUT LINE

ROUTE 6
S 89° 16′ 04″ E

CUT LINE

2′ GRASS SPACE

1/4 SECTION LINE

33′

SURVEY CENTERLINE RTE.6

CONST.℄ ROUTE 6

CUT LINE

6' SIDEWALK

RELOC. POLE

EXIST R/W

5′ TEMP. CONST. EASEMENT

5′ TEMP. CONST. EASEMENT

CUT INLET DITCH

35′

EXIST. R/W

END PROJECT AT STA.890+29.24 ℄ ROUTE 6
FEDERAL IMPROVEMENT ENDS AT A POINT LOCATED 2,618.15′ NORTH AND 1,513.68′ EAST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2″ IRON ROD, MLS DOC 600-101612

38

KATHRYN CLAWSON

NE¼ SE¼ 14
T63N R18W

SECTION LINE

STA. 888+41.89
33′ TO 35′

40

GEORGE & ETTA FOWLER

+99 PE RT. 12′ PA EX.SLOPE -8.39%

NW¼ SW¼ 13
T63N R18W

NOTE: REFER TO RIGHT-OF-WAY PLAN SHEET 6 OF 8 FOR RIGHT-OF-WAY INFORMATION.

SCALE
0 20 40 60

| | |
|---|---|
| EX.SIDEWALK (R) | GRAVEL |
| RAMP/LANDING | (S) SIDEWALK SECTION |
| SIDEWALK | (R) RAMP |
| TRUNCATED DOMES | (T) TRANSITION |
| 3" CONC. MEDIAN | (L) LANDING |

MATCHLINE STA. 887+50.00

STA. 890+29.05

MILL AND OVERLAY
SEE SHEET 8 FOR EARTHWORK BALANCES

EXISTING ROAD PROFILE

1,050

1,040

888 889 890 891 892

PLAN/PROFILE
SHEET 6 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 9 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION | REV. |
|---|---|---|
| | | |

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MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West

1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

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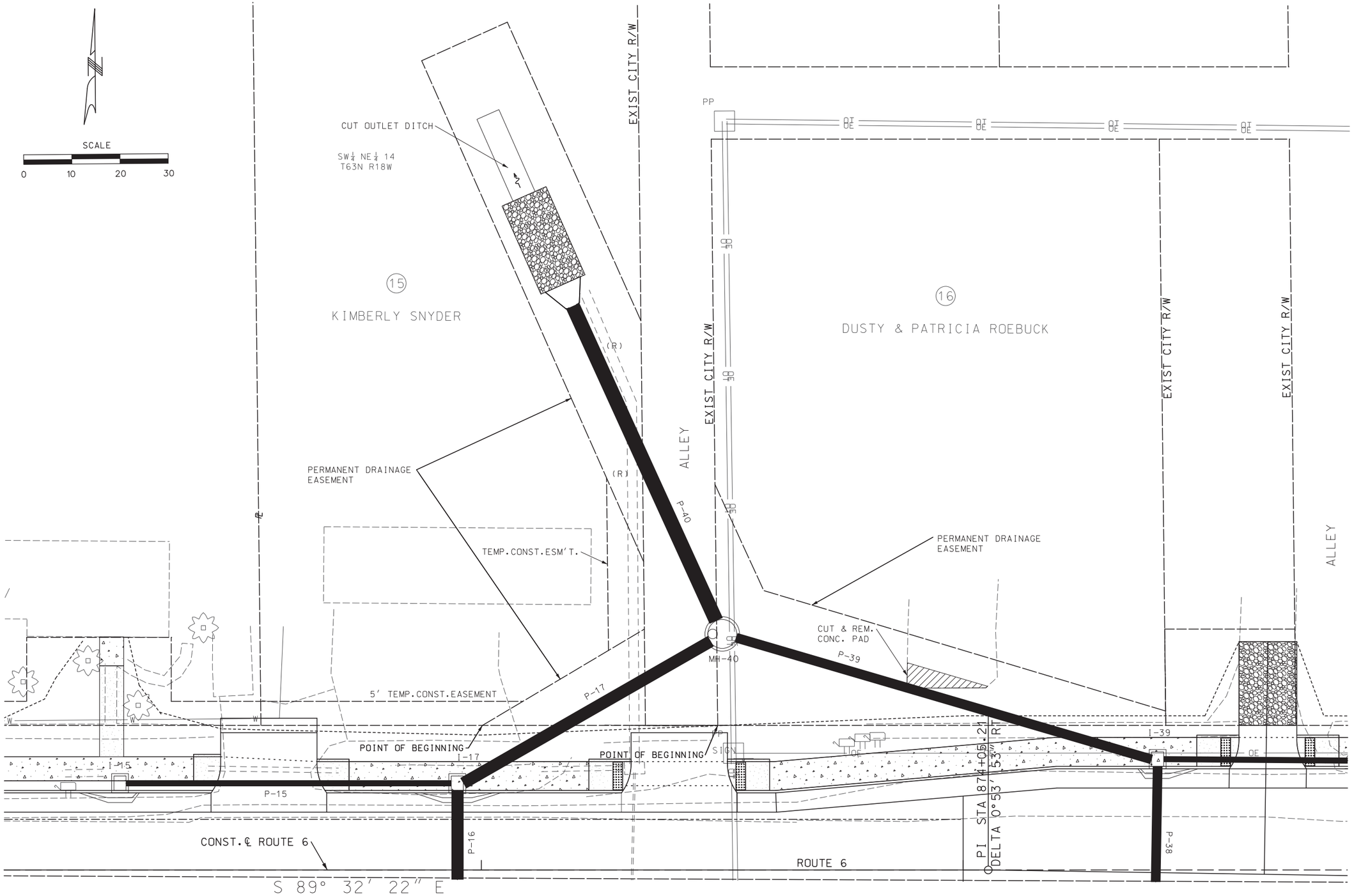


NOTE: REFER TO RIGHT-OF-WAY PLAN SHEET 7 OF 8 FOR RIGHT-OF-WAY INFORMATION.

PLAN
SHEET 7 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 8/12/2019 |
| ROUTE | STATE |
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 10 |
| COUNTY | SULLIVAN |
| JOB NO. | J1P3239 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DESCRIPTION | DATE |
|---|---|
| | |

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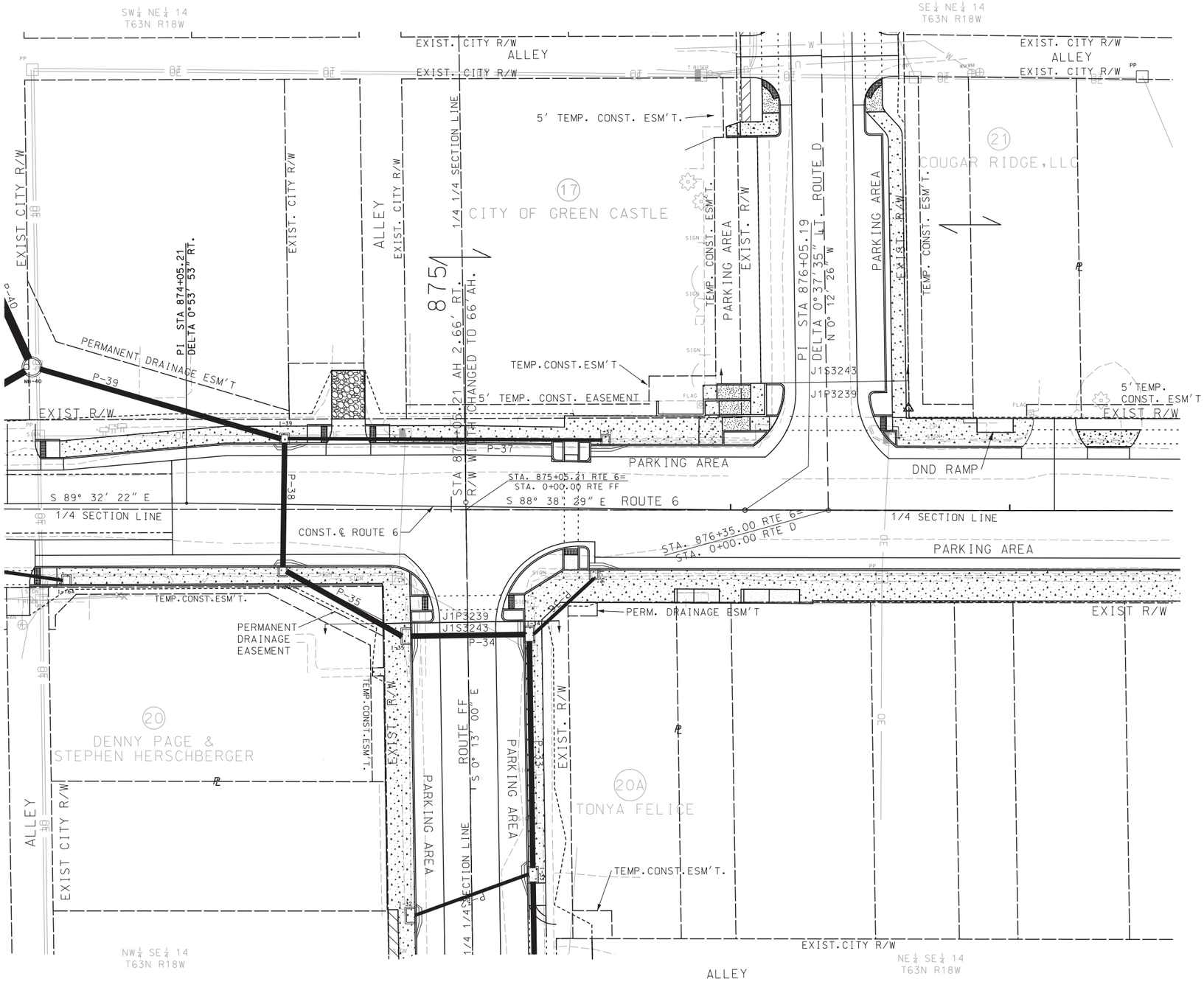
MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3161 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




SCALE

0 20 40 60

NOTE: REFER TO RIGHT-OF-WAY PLAN SHEET 8 OF 8 FOR RIGHT-OF-WAY INFORMATION.

PLAN
SHEET 8 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/14/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 11 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

CERTIFIED LAND CORNER
STA 861+19.05 CENTERLINE OF ROUTE 6 IS LOCATED 3001.22' N 27°43'20" W OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2" IRON ROD, MLS DOC 600-101612.

POT STA 861+00.00

BEGIN PROJECT AT STA.861+19.05 ℄ ROUTE 6
FEDERAL IMPROVEMENT BEGINS AT A POINT LOCATED 2,656.72' NORTH AND 1,396.12' WEST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2" IRON ROD, MLS DOC 600-101612

1. RIGHT OF WAY LIMITS FOR THIS SECTION EXTEND FROM STA. 861+19.05 TO STA. 890+29.05, A DISTANCE OF 0.551 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE STATE PLANE BEARING, NAD83, CENTRAL ZONE
4. FOR STORMWATER DISCHARGES AND TEMPORARY EROSION CONTROL, THE PROJECT OUTLETS INTO A BRANCH OF MUSSEL FORK (RECEIVING WATER).
5. ALL CURB RAMPS AND SIDEWALK WITHIN THE PROJECT LIMITS AND STATE RIGHT-OF-WAY THAT ARE SHOWN TO USE IN PLACE SHALL BE FIELD VERIFIED FOR COMPLIANCE BY THE CONTRACTOR. IF AREAS ARE FOUND TO BE NON-COMPLIANT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
6. UNLESS DIRECTED BY THE ENGINEER, EROSION CONTROL SHALL BE LIMITED TO DEVICES INCLUDED IN THE CONTRACT.

SW¼ NE¼ 14 T63N R18W

1/4 SECTION LINE ℄ STA. 861+67.00 40'TO 30'

+67.00 30'TO 37.50'

① MARK SNYDER
1311 SF TEMP. ESM'T.
0.5 AC REMAINING

EXIST R/W

7.5' TEMP. CONST. EASEMENT

EXIST CENTERLINE

60' R/W

1/4 SECTION LINE

ROUTE 6

EX. CITY R/W

+41.90 30'

+41.76 37.50'

② DONNA SNYDER AND JANIS HOLT
6062 SF TEMP. ESM'T.
700 SF PERM. ESM'T. (DRAINAGE)
0.6 AC REMAINING

+56.76 37.50'

+56.91 30'

7.5'TEMP.CONST. EASEMENT

+18.52 70'

+18.52 37.50'

+30.00 30'-65'

+30.00 30'

+50.00 65'-30'

+50.00 30'

+75.00 80'

+75.00 37.50'

PERM. ESM'T (DRAINAGE)

SEE SHEET 36 FOR TEMP.CONST.EASEMENT INFO.

865

7.5' TEMP. CONST. EASEMENT

EXIST R/W

MATCHLINE STA. 865+50.00

EXIST R/W

+67.00 30'

STA. 861+67.00 40'TO 30'

+11.90 30'

③ MARTY & TANNA HAMAR
NO R/W ACQUISITION

EXIST CITY R/W

NOTE: RIGHT-OF-WAY DATA IS FOR INFORMATIONAL PURPOSES ONLY

EXIST CITY R/W

+57.00 35'

+56.91 30'

④ MARK L. SNYDER
575 SF TEMP. ESM'T.
0.3 AC REMAINING

NW¼ SE¼ 14 T63N R18W

5' TEMP. CONST. EASEMENT

EXIST R/W

+71.91 30'

+72.00 35'

⑤ CITY OF GREEN CASTLE
625 SF TEMP. ESM'T.
0.3 AC REMAINING

SCALE 0 20 40 60

SEE SHEET 4 FOR CONSTRUCTION INFORMATION

## UTILITY CONTACTS

CITY OF GREEN CASTLE
355 FRONT STREET
GREEN CASTLE, MO 63544
CONTACT:
(660) 874-4717

NE MISSOURI RURAL TELEPHONE CO.
P.O. BOX 98
GREEN CITY, MO 63545
CONTACT:
(660) 874-4111

AMEREN MISSOURI ELECTRIC
P.O. BOX 790352
ST. LOUIS, MO 63179-0352
CONTACT:
(866) 992-6619

MILL AND OVERLAY

STA. 861+19.05

MATCHLINE STA. 865+50.00

1,050

1,040

EXISTING ROAD PROFILE

861 862 863 864 865

THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS AND REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE.

RIGHT OF WAY
SHEET 1 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 12 |

COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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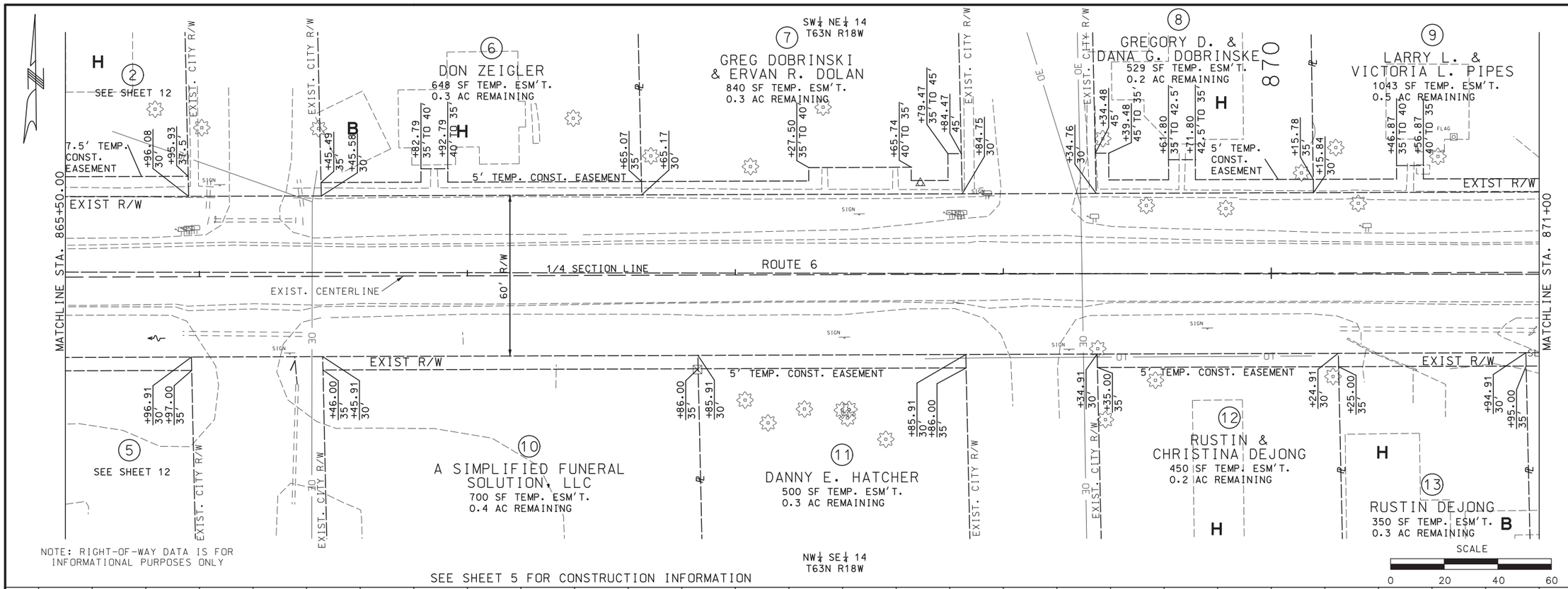


STATE OF MISSOURI
HERBERT R. BAILEY
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DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 13 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

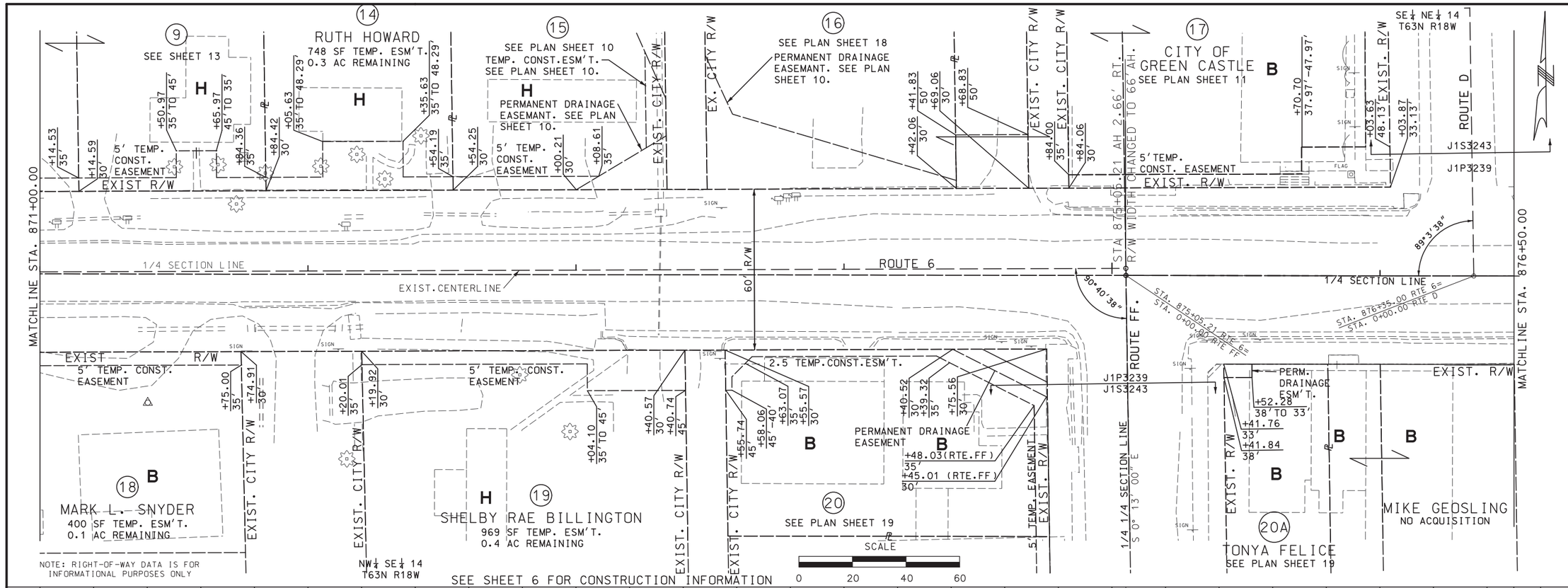
| DATE | DESCRIPTION |
|---|---|

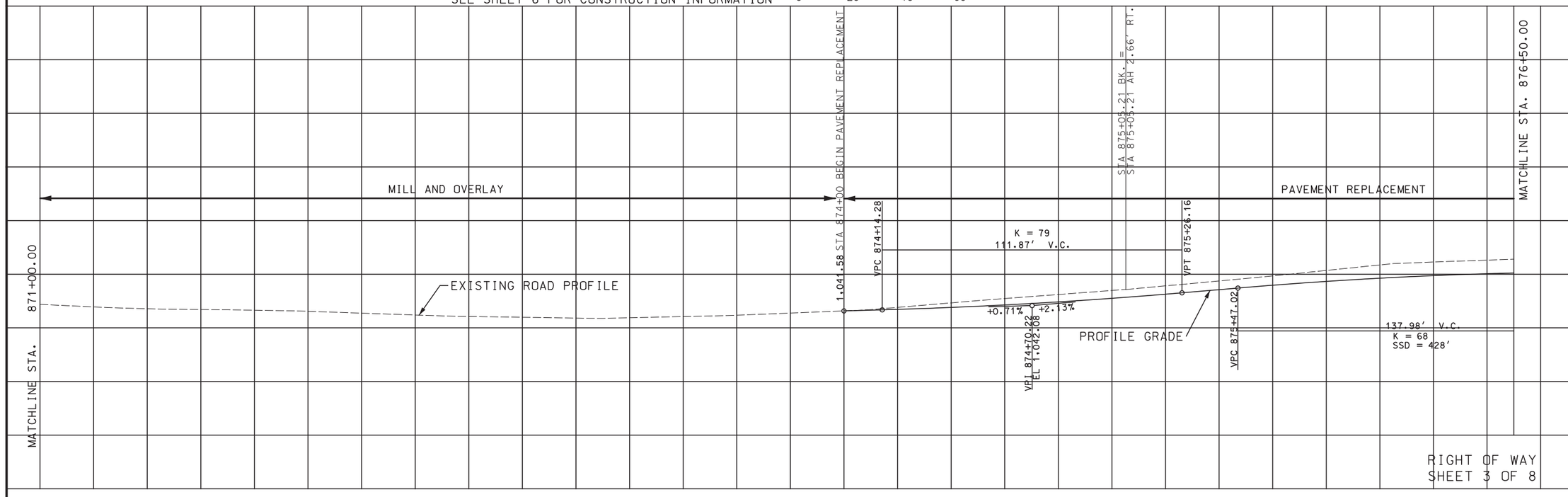
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM


REV.




RIGHT OF WAY
SHEET 3 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 14 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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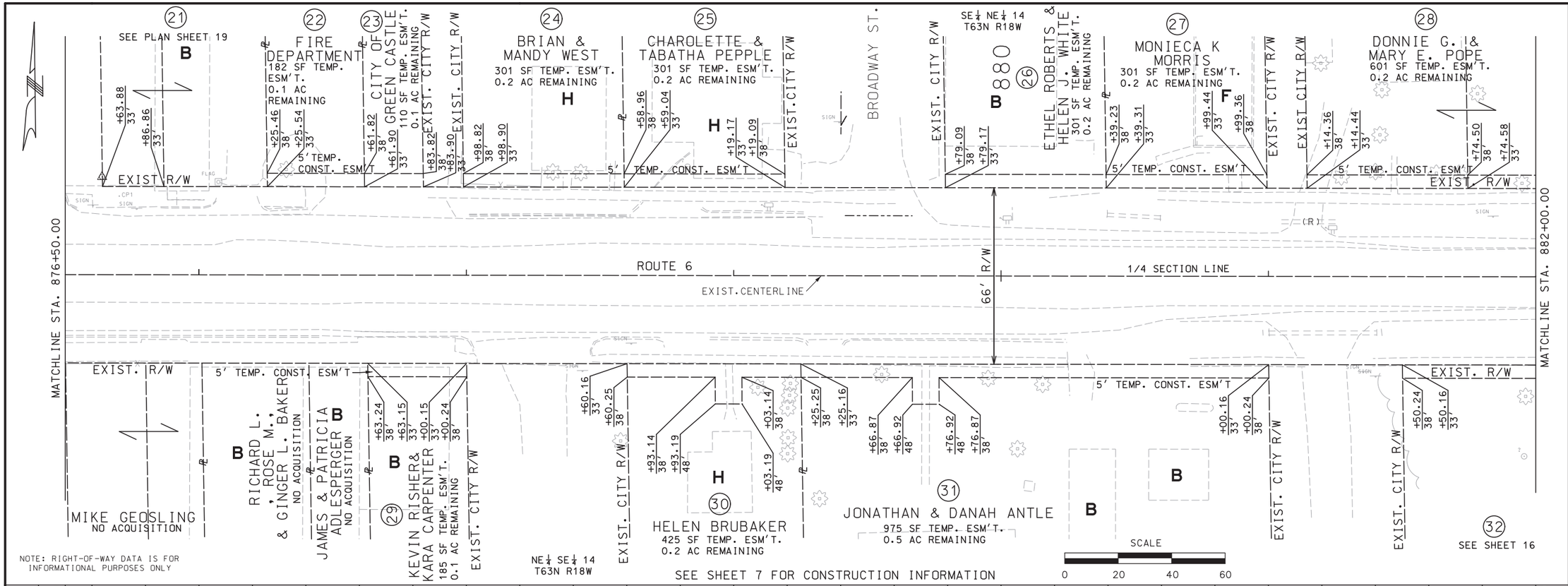



STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/3/2020

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 15 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|
| 2/12/2020 | CONST. EASM'T. REMOVED FROM PARCEL 21 |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

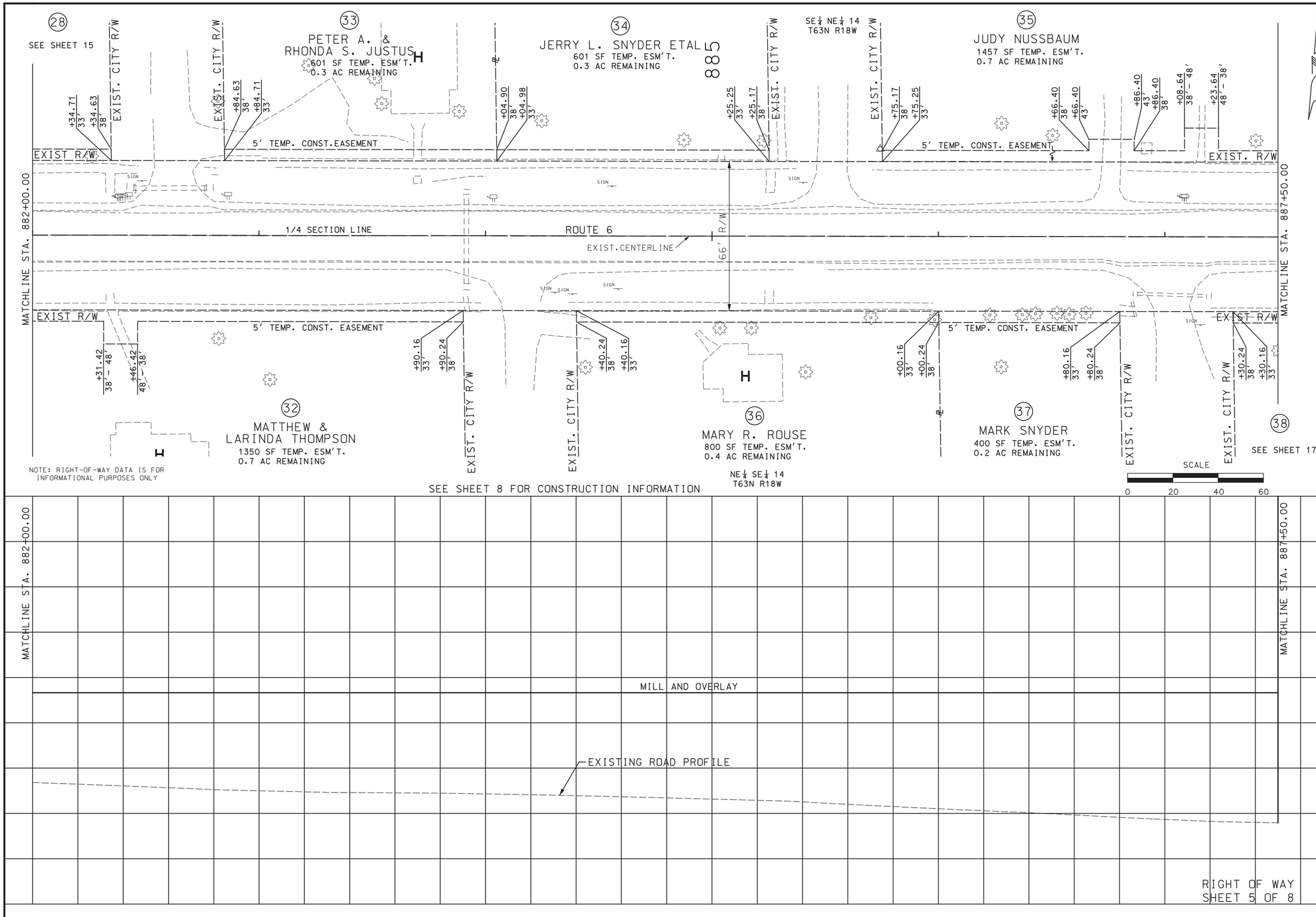
MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

REV.




STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 8/12/2019 |
| ROUTE 6 | STATE MO |
| DISTRICT NW | SHEET NO. 16 |
| COUNTY | SULLIVAN |
| JOB NO. | J1P3239 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DATE | DESCRIPTION |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West

1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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SE¼ NE¼ 14
T63N R18W

SW¼ NW¼ 13
T63N R18W

(35)

SEE SHEET 16

EXIST. CITY R/W

SECTION LINE

EXIST. CITY R/W

+15.79 33′
+15.71 38′
+65.73 38′
+65.81 33′

EXIST. R/W

5′ TEMP. CONST. ESM′T.

PC STA 889+09.07

+00.08 38′
+00.20 53′
+29.08 53′
+29.28 38′
+51.12 38′
+51.01 33′

(39)

KYLE D. HIGGINS
1395 SF TEMP. ESM′T.
35.9 AC REMAINING

CURVE EXRTE_6_E_3
PI 894+53.42
PC 889+09.07
PT 899+44.97
Δ 43° 29′ 52.3″ (RT)
D 4° 11′ 56.5″
L 1,035.90′
T 544.35′
R 1,364.50′

EXIST. R/W

MATCHLINE STA. 887+50.00

66′ R/W

ROUTE 6

EXIST.CENTERLINE

1/4 SECTION LINE

33′

35′

EXIST R/W
5′ TEMP. CONST. EASEMENT

5′ TEMP. CONST. EASEMENT

EXIST. R/W

+32.59 33′
+32.80 38′
+46.89 40′
+46.68 35′
+9.05 40′ -35
+30.16 40′ -35

FLAG

CERTIFIED LAND CORNER
STA 890+29.24 CENTERLINE OF ROUTE 6 IS LOCATED 3,024.23′ N 30°02′03″E OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2″ IRON ROD MONUMENT PER MLS DOC 600-101612

END PROJECT AT STA.890+29.24 ℄ ROUTE 6
FEDERAL IMPROVEMENT ENDS AT A POINT LOCATED 2,618.15′ NORTH AND 1,513.68′ EAST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2″ IRON ROD, MLS DOC 600-101612

(38)

KATHRYN CLAWSON
512 SF TEMP. ESM′T.
241 SF PERM. ESM′T. (DRAINAGE)
0.3 AC REMAINING

+33.73 60′

SECTION LINE

+42.30 60′
+47.74 60′

STA. 888+41.89
33′TO 35′

368 SF PERMANENT
DRAINAGE EASEMENT

(40)

GEORGE & ETTA FOWLER
900 SF TEMP. ESM′T.
128 SF PERM. ESM′T. (DRAINAGE)
0.6 AC REMAINING

NOTE: RIGHT-OF-WAY DATA IS FOR INFORMATIONAL PURPOSES ONLY

NE¼ SE¼ 14
T63N R18W

NW¼ SW¼ 13
T63N R18W

SEE SHEET 9 FOR CONSTRUCTION INFORMATION

SCALE
0 20 40 60

MATCHLINE STA. 887+50.00

STA. 890+29.05

MILL AND OVERLAY

EXISTING ROAD PROFILE

RIGHT OF WAY
SHEET 6 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 17 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West

1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

REV.

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SCALE

0 10 20 30

SW¼ NE¼ 14
T63N R18W

+05.38
176'

+87.62
168'

N 66°12'52" E 19.48'

S 23°38'46" E 67.92'

EXIST CITY R/W

+33.12
114'

N 23°25'40" W 113.14'

(15)

KIMBERLY SNYDER

438 SF TEMP. ESM'T.
2122 SF PERM. DRAINAGE ESM'T
0.3 AC REMAINING

PERMANENT DRAINAGE EASEMENT

+25.98
81.37'

+33.68
64'

TEMP.CONST.ESM'T.

+26.38
45.56'

+33.83
50'

N 59°42'59" E 39.12'

+34.05
30'

+54.19
35'

+54.25
30'

5' TEMP. CONST. EASEMENT

+00.21
30'

+08.61
35'

H

H

℄

EXIST CITY R/W

+48.50
80'

S 24°13'28" E 24.21'

+58.61
58'

PERMANENT DRAINAGE EASEMENT

S 72°51'18" E 87.08'

+49.06
30'

(16)

DUSTY & PATRICIA ROEBUCK

1673 SF PERM. DRAINAGE ESM'T
0.2 AC REMAINING

EXIST CITY R/W

+42.02
33'

+42.06
30'

EXIST CITY R/W

SIGN

EXIST.CENTERLINE

ROUTE 6

PI STA 874+05.21
DELTA 0°53'53" RT.

NOTE: RIGHT-OF-WAY DATA IS FOR INFORMATIONAL PURPOSES ONLY

SEE SHEET 10 FOR CONSTRUCTION INFORMATION

RIGHT OF WAY
SHEET 7 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 18 |

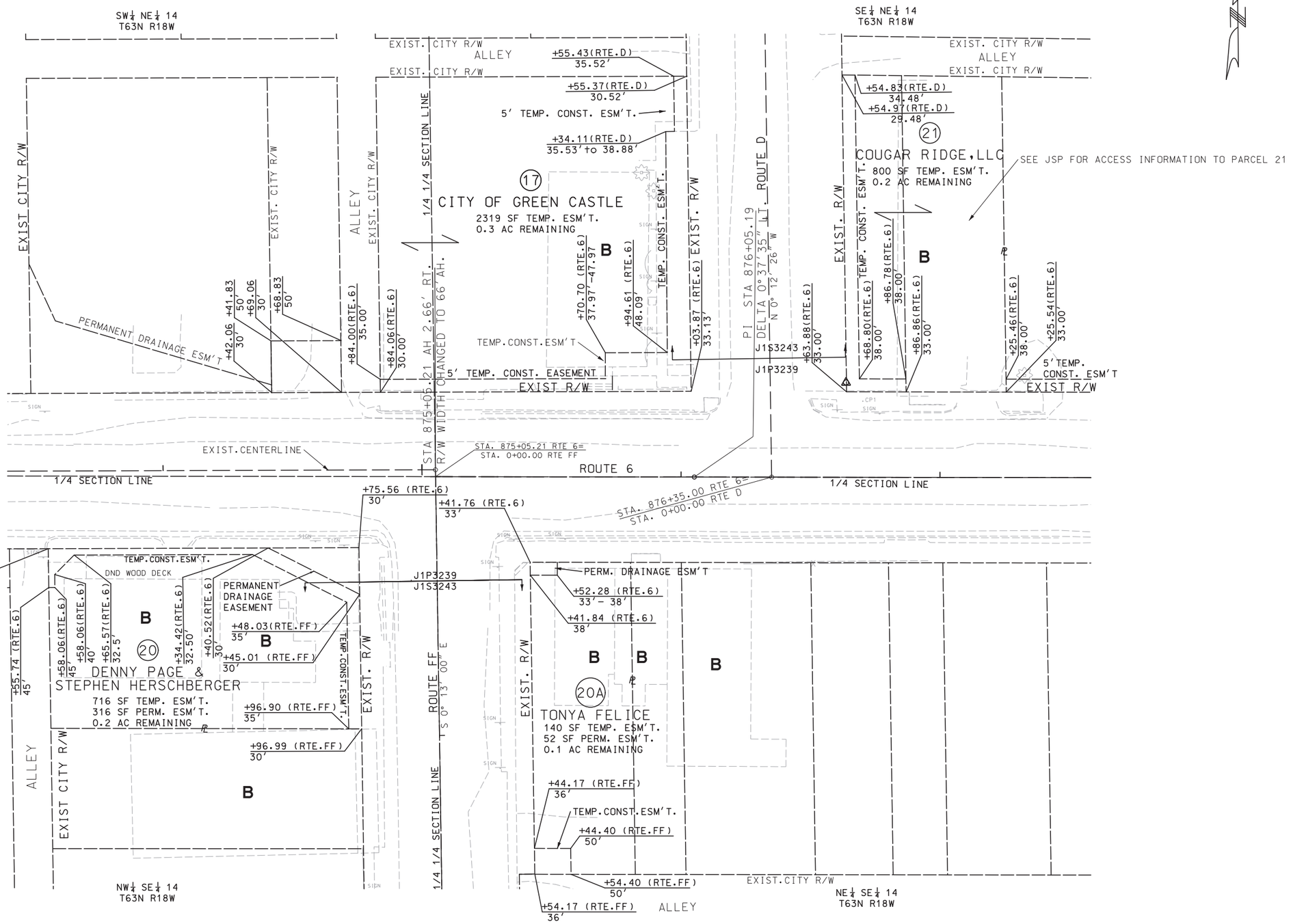
COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




NOTE: RIGHT-OF-WAY DATA IS FOR INFORMATIONAL PURPOSES ONLY

SEE SHEET 11 FOR CONSTRUCTION INFORMATION

RIGHT OF WAY
SHEET 8 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/27/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 19
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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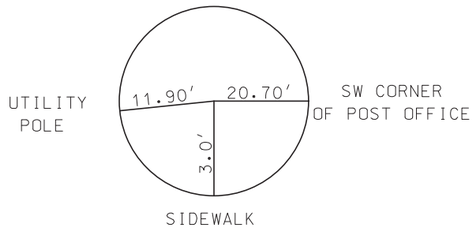
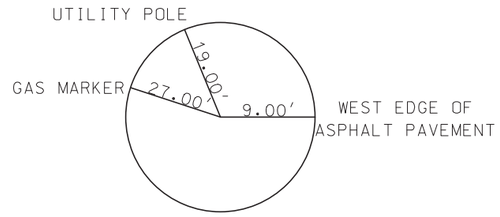
# Coordinate Point Listing
# Missouri Coordinate System of 1983 (State Plane)
# Reference Points




CP #1
1/2" REBAR WITH CAP
N: 1613096.1573
E: 1534908.6686
ELEV.1045.743




CP #2
1/2" REBAR WITH CAP
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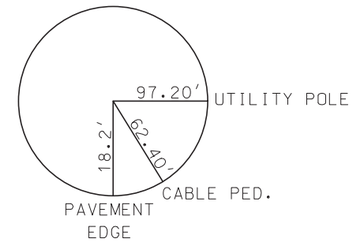
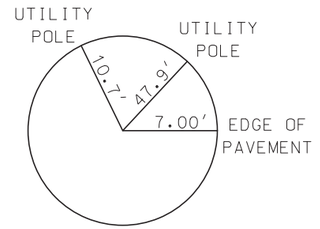
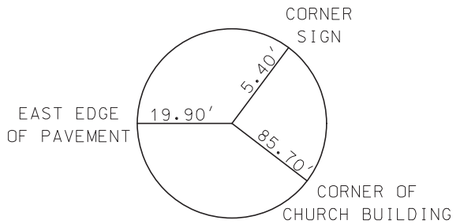
E: 1534853.1670
ELEV.1041.00



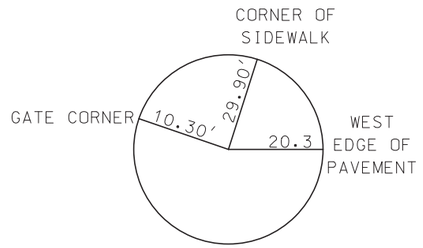

CP #3
1/2" REBAR WITH CAP
N: 1613104.2584
E: 1533504.4738
ELEV.1041.476



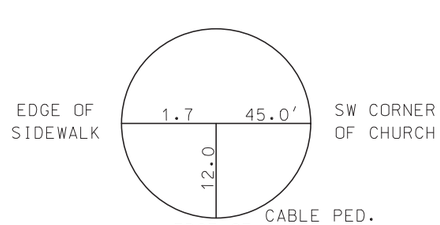

CP #4
1/2" REBAR WITH CAP
N: 1612985.3209
E: 1535928.9062
ELEV.1033.717




CP #5
1/2" REBAR WITH CAP
N: 1612099.1750
E: 1534784.4360
ELEV.1047.560




CP #6
1/2" REBAR WITH CAP
N: 1610484.8885
E: 1534723.0815
ELEV.1035.591




NGS GREENCASTLE

N: 1612024.2825
E: 1534780.4747
ELEV.1048.121

MISSOURI STATE PLANE CENTRAL ZONE, NAVD 88
COORDINATES LISTED ARE MODIFIED (GROUND) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009858 = MODIFIED (GROUND) COORDINATES

REFERENCE POINTS
SHEET 1 OF 1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 20
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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# Coordinate Point Listing
# Missouri Coordinate System of 1983

| COORDINATES FOR ROUTE 6 CONSTRUCTION CENTERLINE | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | MODIFIED STATE PLANE | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| 5000 | 861+00.00 | 1,612,916.5783 | 1,533,193.4381 | 1,613,075.5796 | 1,533,344.5803 | CHAIN:ROUTE 6 CONST | POT |
| 50010 | 874+05.21 | 1,612,906.0885 | 1,534,498.4772 | 1,613,065.0888 | 1,534,649.7481 | CHAIN:ROUTE 6 CONST | POT |
| 50011 | 876+05.19 | 1,612,901.3473 | 1,534,698.3767 | 1,613,060.3471 | 1,534,849.6673 | CHAIN:ROUTE 6 CONST | POT |
| PCCURRTE 6 CONST. | 888+65.04 | 1,612,885.2473 | 1,535,958.0061 | 1,613,044.2455 | 1,536,109.4208 | CHAIN:ROUTE 6 CONST | PC CURVE ROUTE 6 CONST |
| PICURRTE 6 CONST. | 894+53.48 | 1,612,877.7276 | 1,536,546.3333 | 1,613,036.7251 | 1,536,697.8060 | CHAIN:ROUTE 6 CONST | PI CURVE ROUTE 6 CONST |
| PTCURRTE 6 CONST. | 899+65.04 | 1,612,467.3112 | 1,536,967.9299 | 1,612,626.2682 | 1,537,119.4442 | CHAIN:ROUTE 6 CONST | PT CURVE ROUTE 6 CONST |

| COORDINATES FOR ROUTE 6 EXISTING CENTERLINE | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | MODIFIED STATE PLANE | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| 63 | 861+00.00 | 1,612,916.5783 | 1,533,193.4381 | 1,613,075.5796 | 1,533,344.5803 | CHAIN:EXRTE 6 W | POT |
| 64 | 875+05.21 | 1,612,905.2848 | 1,534,598.4657 | 1,613,064.2850 | 1,534,749.7464 | CHAIN:EXRTE 6 W | POT |
| 91 | 875+05.21 | 1,612,902.6242 | 1,534,598.4758 | 1,613,061.6241 | 1,534,749.7565 | CHAIN:EXRTE 6 E | POT (2.66' RIGHT) |
| PCCUREXRTE 6 E 3 | 889+09.12 | 1,612,884.6839 | 1,536,002.0807 | 1,613,043.6821 | 1,536,153.4998 | CHAIN:EXRTE 6 E | PC CURVE EXRTE 6 E 3 |
| PICUREXRTE 6 E 3 | 894+53.48 | 1,612,877.7276 | 1,536,546.3333 | 1,613,036.7251 | 1,536,697.8060 | CHAIN:EXRTE 6 E | PI CURVE EXRTE 6 E 3 |
| PTCUREXRTE 6 E 3 | 899+65.04 | 1,612,498.0575 | 1,536,936.3459 | 1,612,657.0176 | 1,537,087.8571 | CHAIN:EXRTE 6 E | PT CURVE EXRTE 6 E 3 |

MISSOURI STATE PLANE - NAD 83 (2011) CENTRAL ZONE - NAVD 88
COORDINATES LISTED ARE MODIFIED (GROUND) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009858 = MODIFIED (GROUND) COORDINATES

COORDINATE POINTS
SHEET 1 OF 1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 21
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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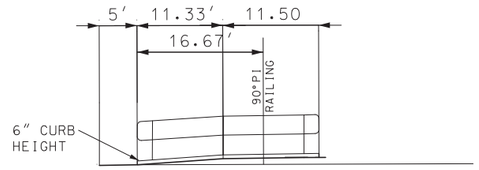
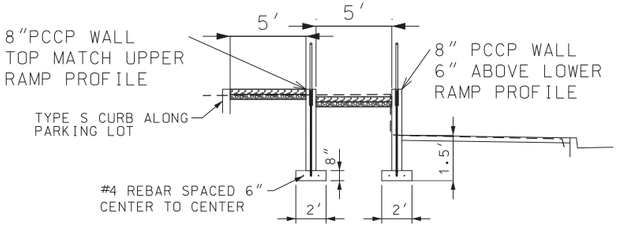
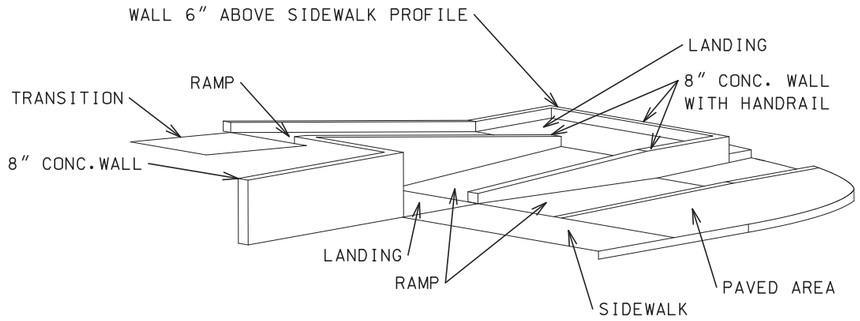


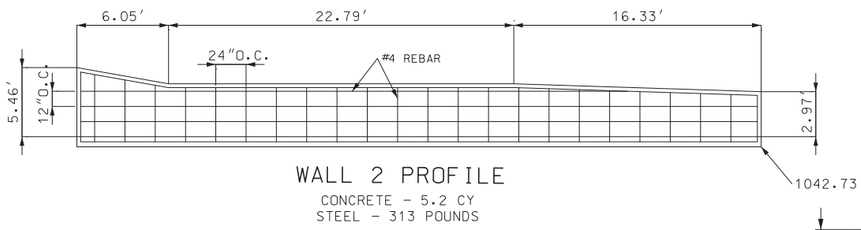

HANDRAIL 1 FOR CITY HALL RAMP




WALL TYPICAL

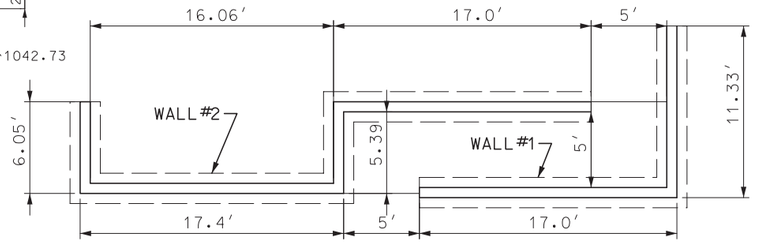



PERSPECTIVE VIEW OF CITY HALL RAMP

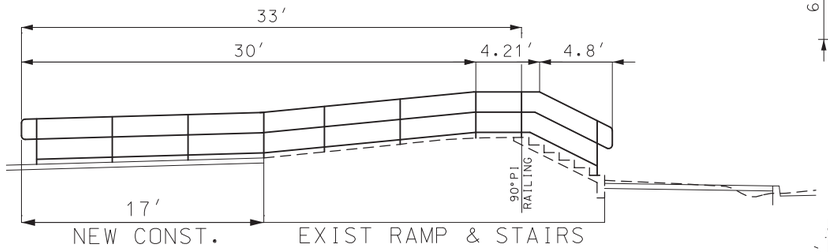



WALL 2 PROFILE

CONCRETE – 5.2 CY
STEEL – 313 POUNDS

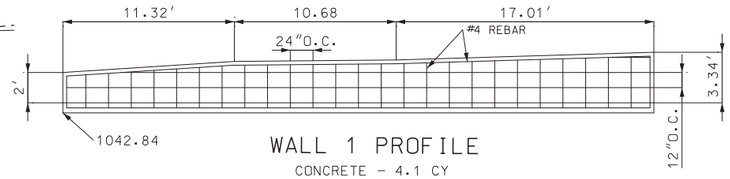



WALL PLAN



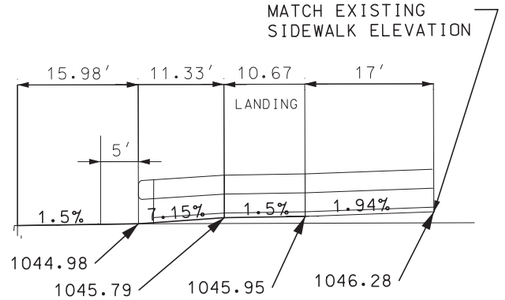

HANDRAIL 2 FOR CITY HALL RAMP

CONTRACTOR TO FIELD MEASURE EXISTING RAMP AND STAIRS BEFORE ORDERING HANDRAIL FABRICATION

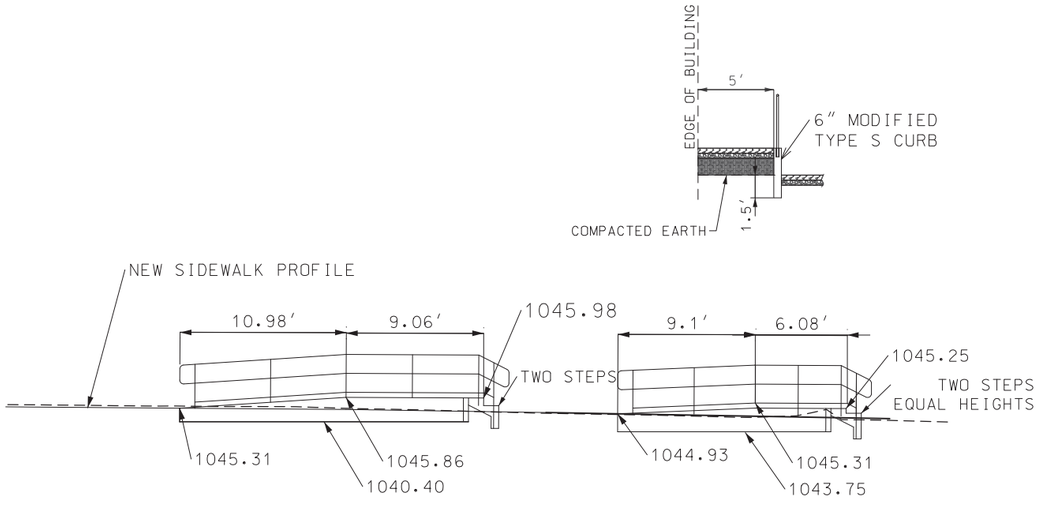



WALL 1 PROFILE

CONCRETE – 4.1 CY
STEEL – 208 POUNDS

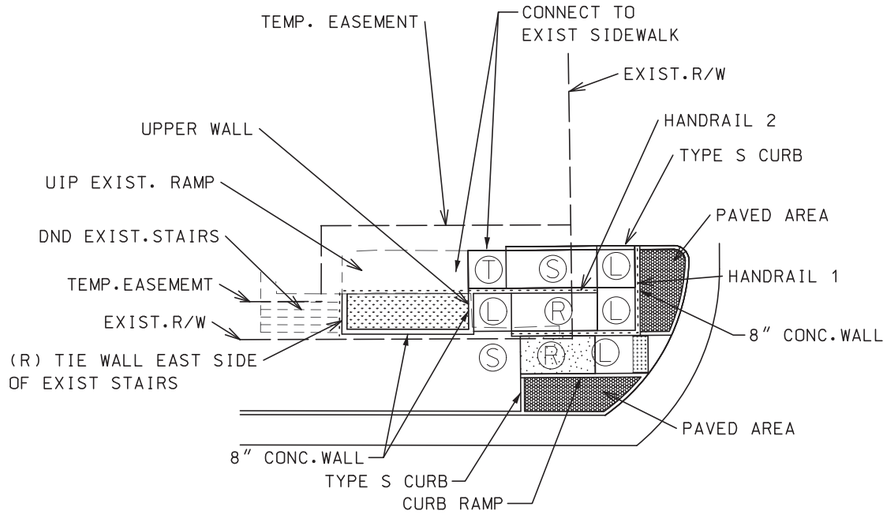



PROFILE OF CITY HALL RAMP




NTS

PROFILE OF RAMPS INTO GEOSLING'S BUILDINGS




PLAN VIEW OF CITY HALL RAMP

NTS

RAMP AND WALL PROFILES
SPECIAL SHEET 1 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 22 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

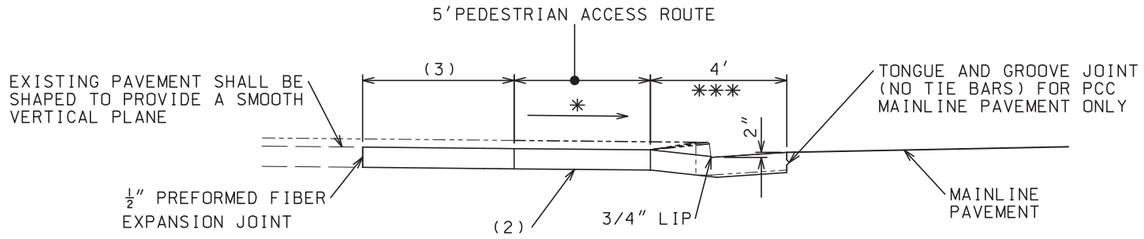
DESCRIPTION | DATE | REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

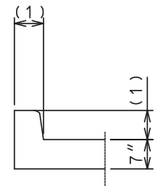
MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

c:\pwdata\topeka01\sjs01684@bartwest.com\dms37166\022_SS_01_of_15_J1P3239_150.dgn 1:33:07 PM 8/12/2019



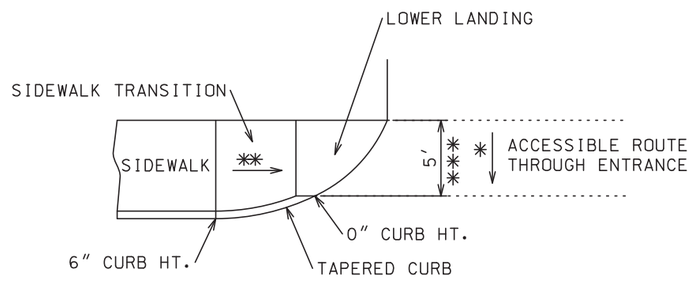

SECTION A–A



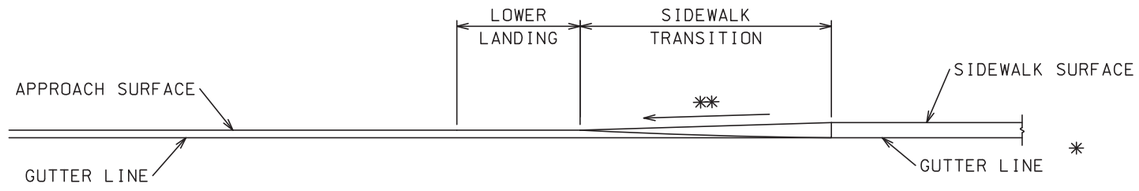

TYPE B
(BARRIER)

SECTION B–B

NOTE: THE CROSS SLOPE OF SIDEWALKS, LANDINGS, AND ACCESSIBLE ROUTE THROUGH THE PAVED APPROACHES SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).




DETAIL A



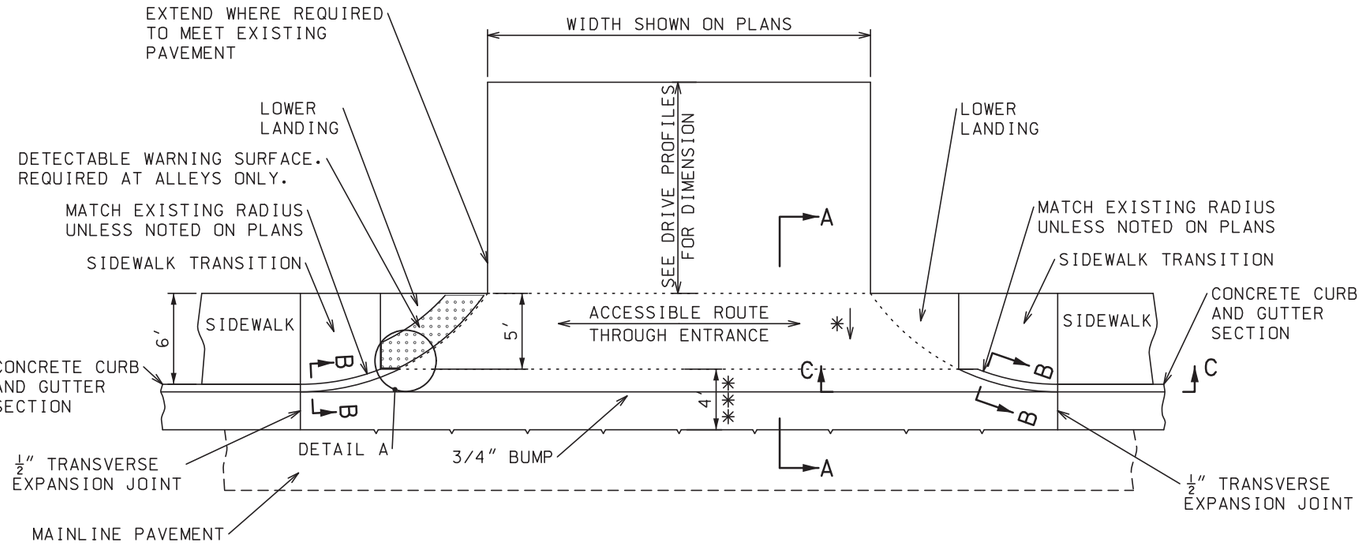

SECTION C–C

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

*** NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4′ WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 8″ NRCCP – FOR ALLEY OR COMMERCIAL APPROACHES.
7″ NRCCP – FOR RESIDENTIAL APPROACHES.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.




PLAN OF ALLEYS, COMMERCIAL OR RESIDENTIAL APPROACHES WITH 6′ SIDEWALKS

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

WHERE DRAINAGE IS NOT TO BE CARRIED ACROSS THE PAVED APPROACH, SECTION A–A SHALL BE MODIFIED TO ELIMINATE THE "LIP" AND SHALL BE CROWNED AS DIRECTED BY THE ENGINEER.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP

ALLEY DETAILS
SPECIAL SHEET 2 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

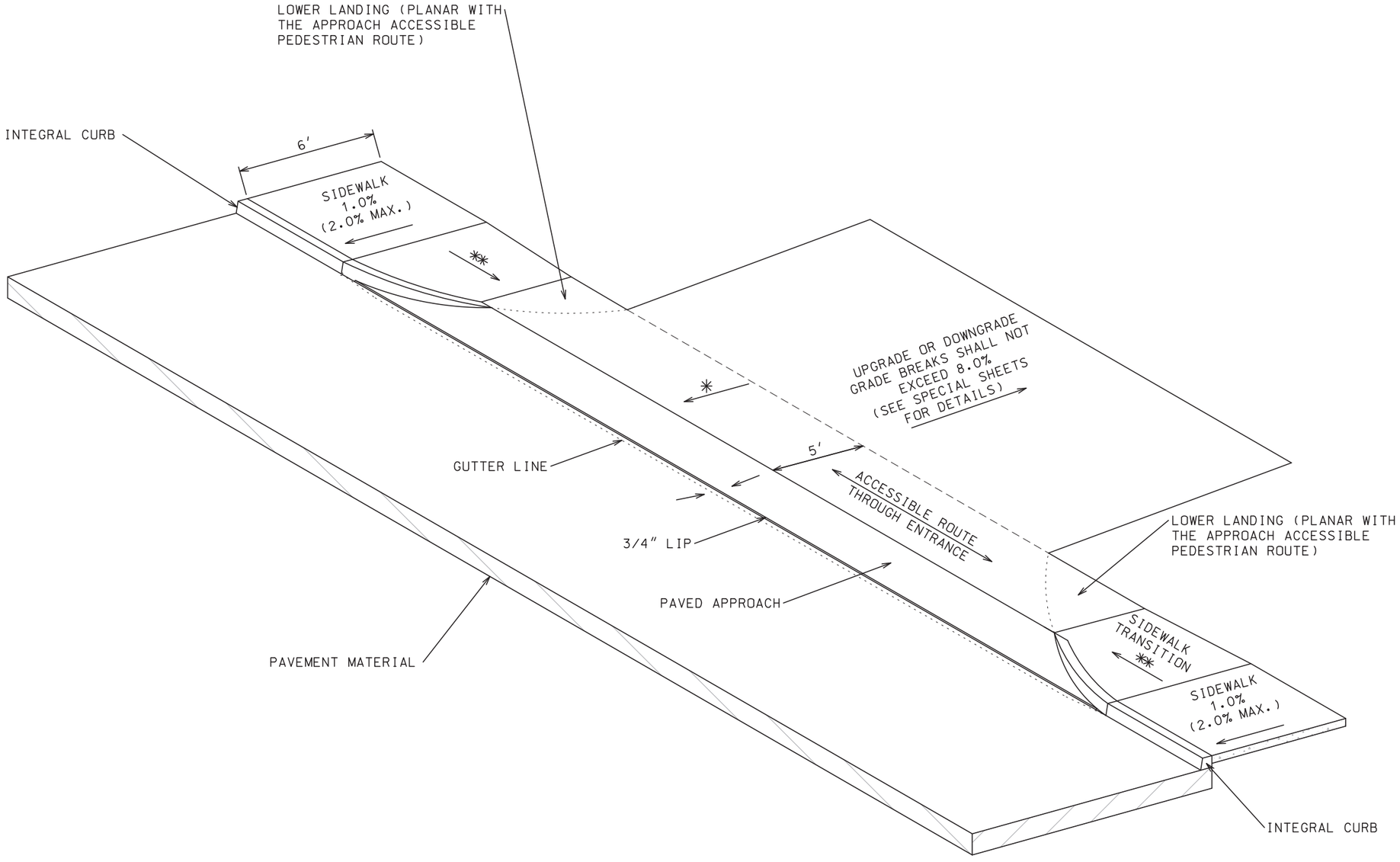
DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 23
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.)

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

ISOMETRIC VIEW
COMMERCIAL OR RESIDENTIAL APPROACHES
WITH 6' SIDEWALKS

APPROACH DETAILS
SPECIAL SHEET 3 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/18/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 24
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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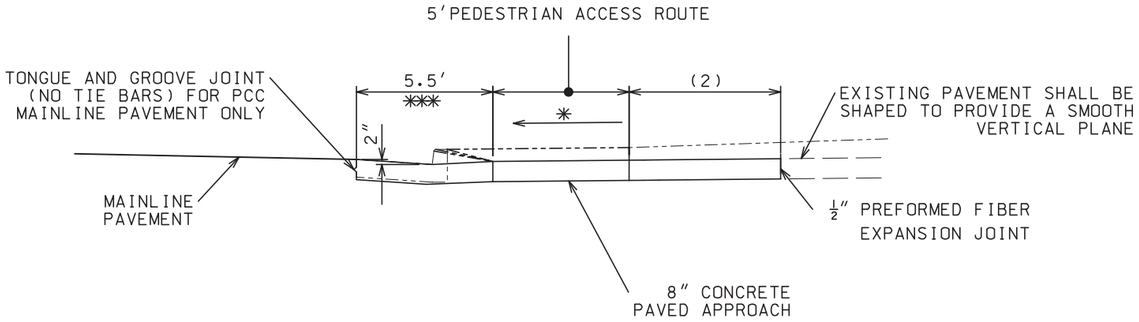
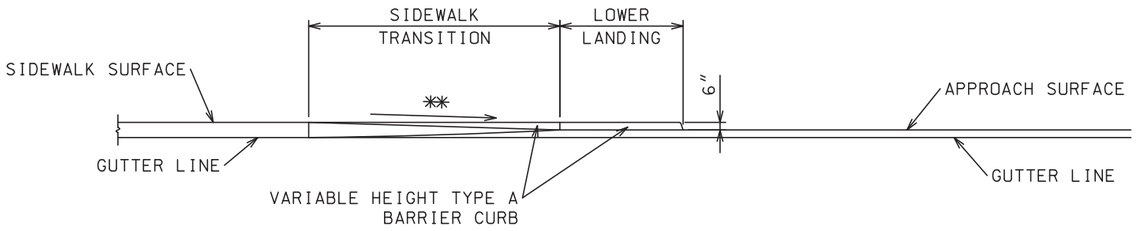
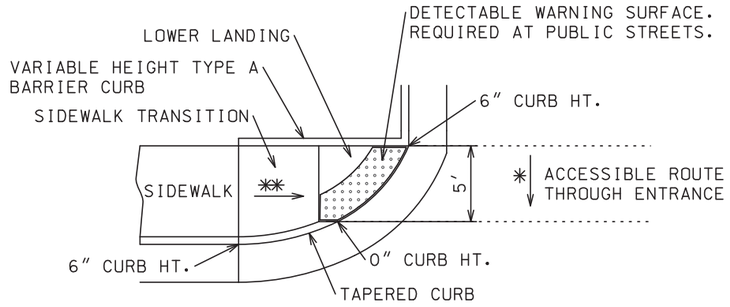
WWW.BARTWEST.COM




SECTION A–A




SECTION C–C

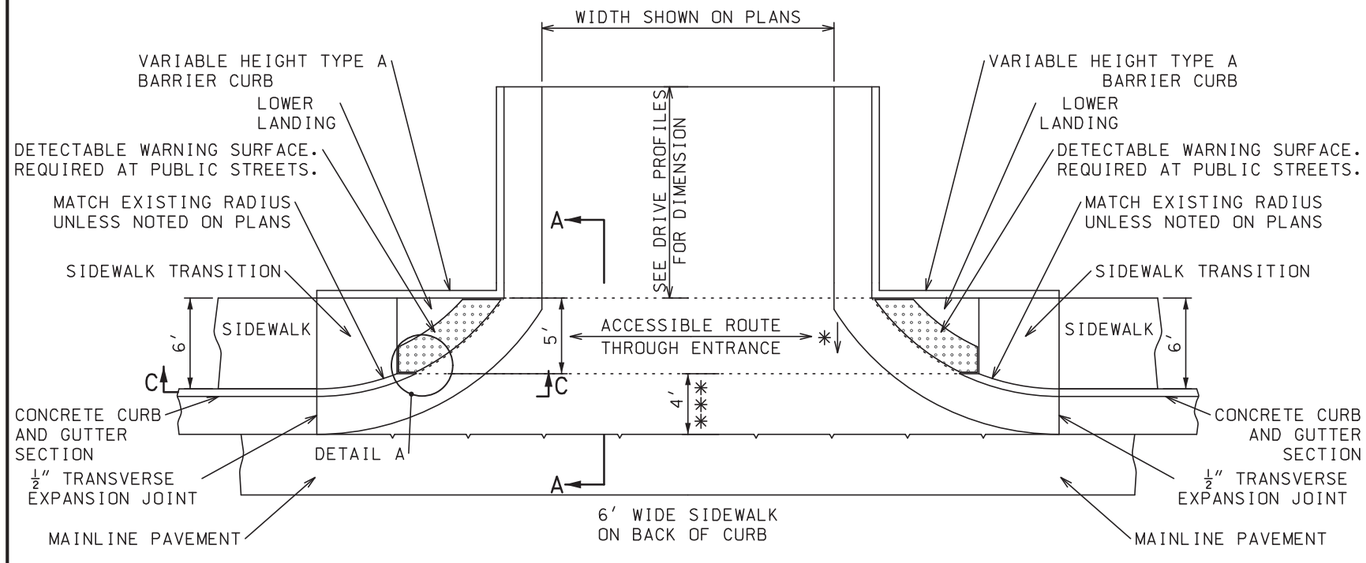



DETAIL A

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. SEE DRIVEWAY PROFILES FOR DIMENSIONS.




(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

PLAN OF NON–SIGNALIZED SIDE STREET APPROACHES

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP

SIDEWALK DETAIL
SPECIAL SHEET 4 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 25 |

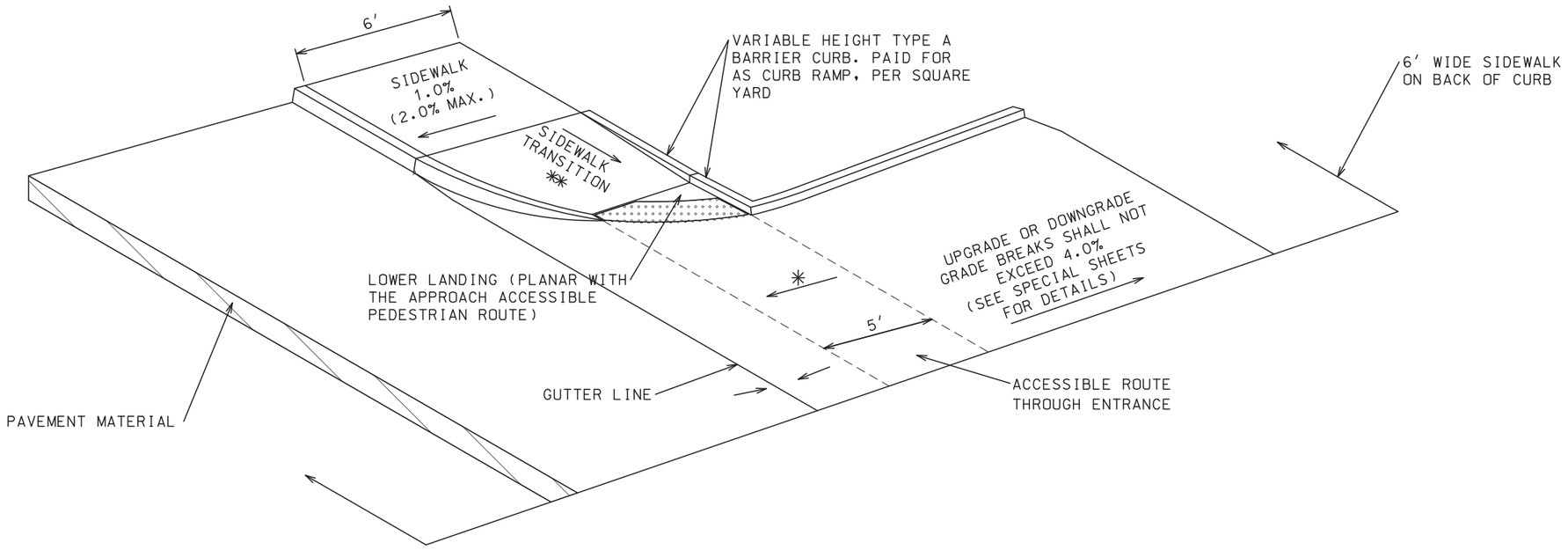
COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH.
THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE
(2.0% MAX.)

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

ISOMETRIC VIEW
NON-SIGNALIZED SIDE STREET APPROACHES

SIDE STREET APPROACH DETAIL
SPECIAL SHEET 5 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

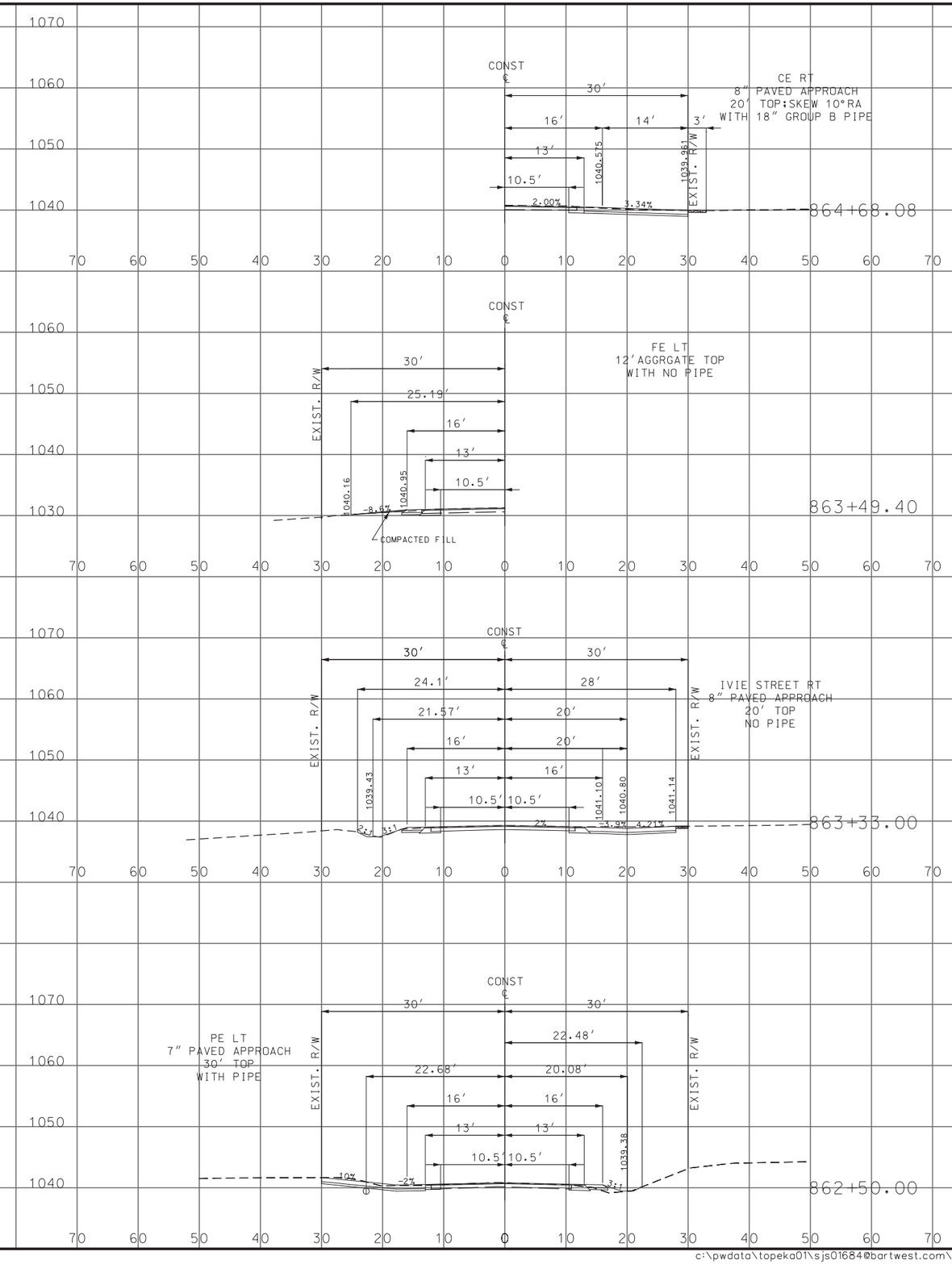
DATE PREPARED: 8/12/2019
ROUTE: 6 | STATE: MO
DISTRICT: NW | SHEET NO.: 26
COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




DRIVE PROFILES
SPECIAL SHEET 6 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 27 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

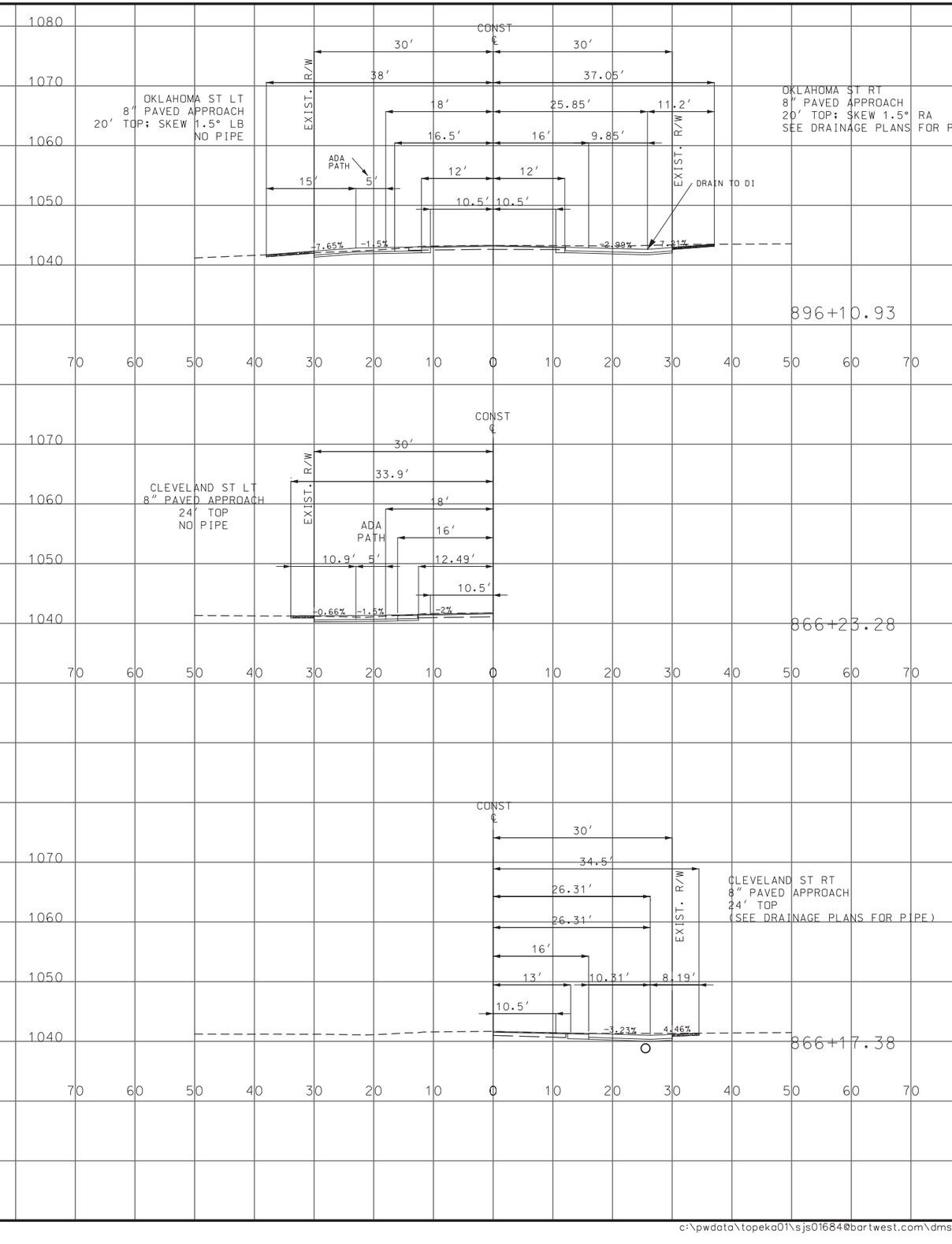
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

REV.




DRIVE PROFILES
SPECIAL SHEET 7 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/12/2019
ROUTE: 6 | STATE: MO
DISTRICT: NW | SHEET NO.: 28
COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| REV. | DATE | DESCRIPTION |
|---|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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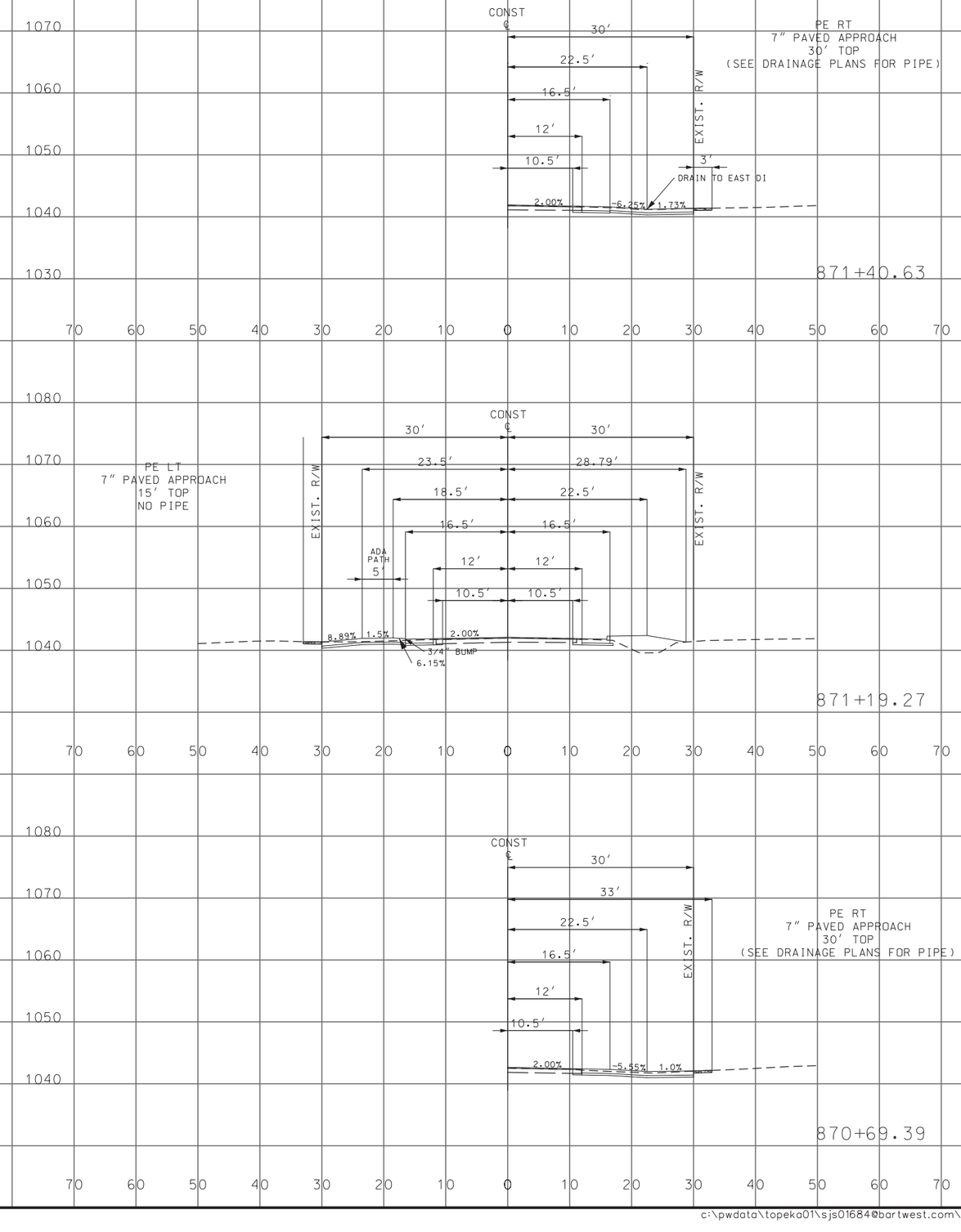
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




DRIVE PROFILES
SPECIAL SHEET 8 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 29 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

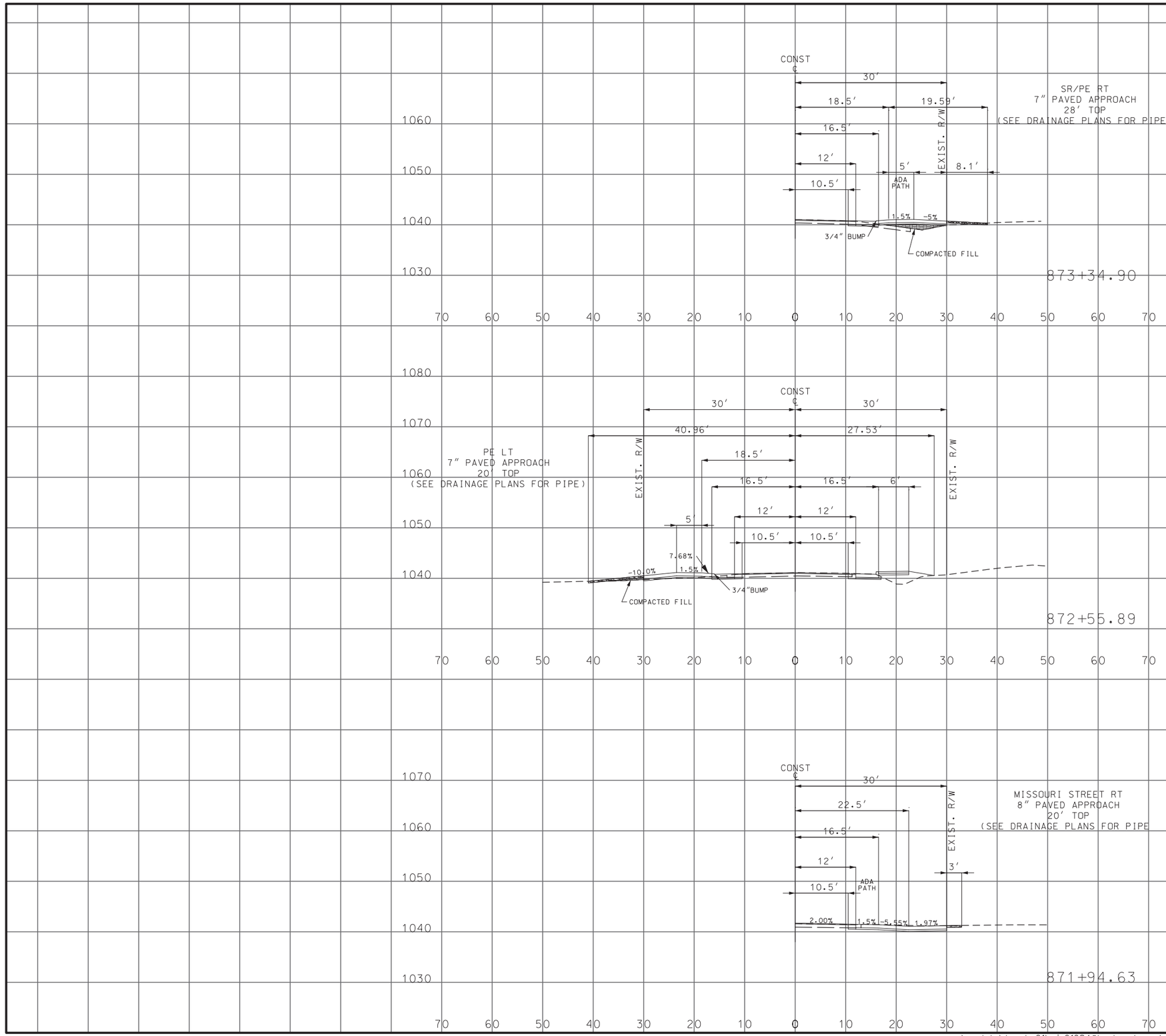
| REV. | DESCRIPTION | DATE |
|---|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




DRIVE PROFILES
SPECIAL SHEET 9 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 30 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| REV. | DESCRIPTION | DATE |
|---|---|---|
| | | |

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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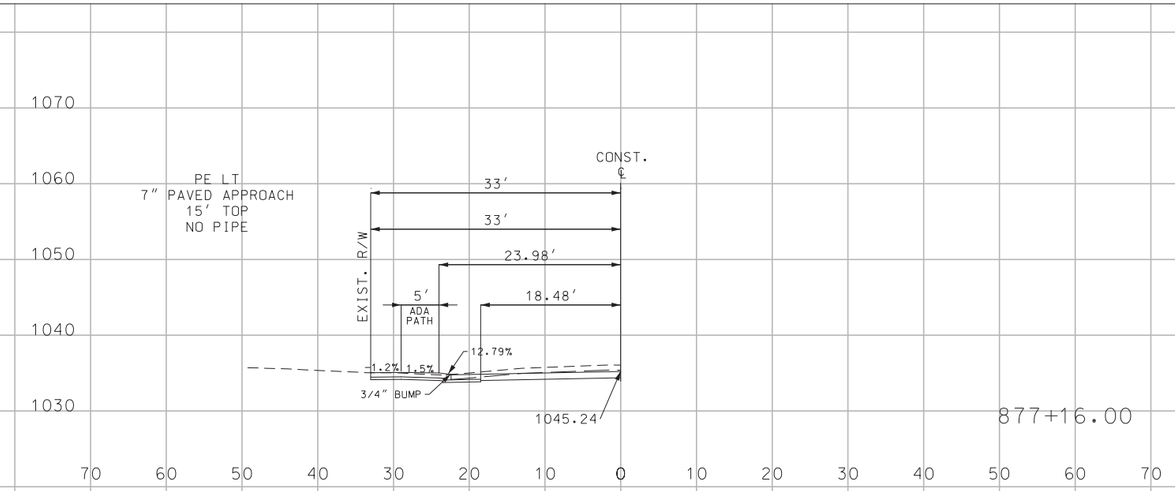
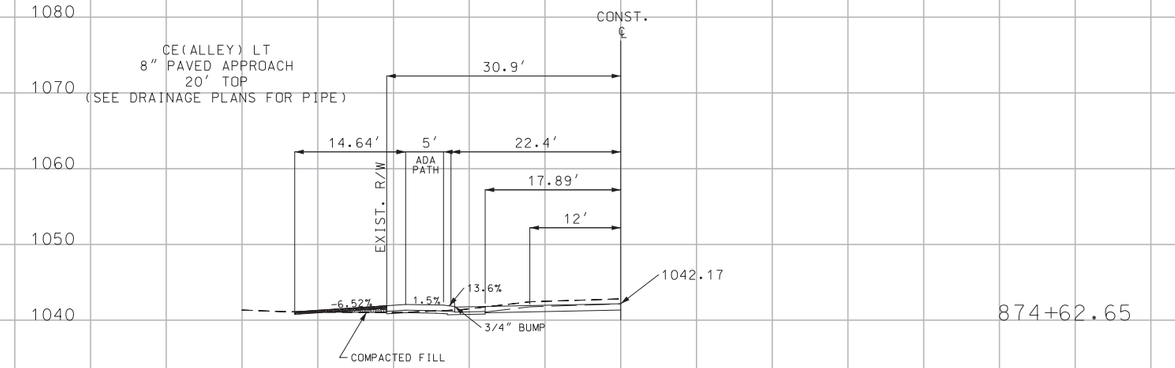
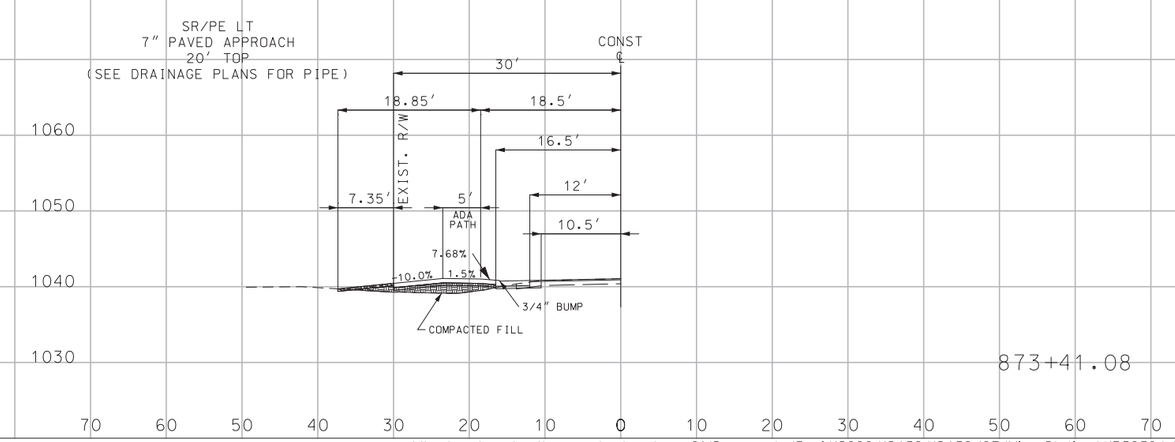



DRIVE PROFILES
SPECIAL SHEET 10 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/27/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 31 |

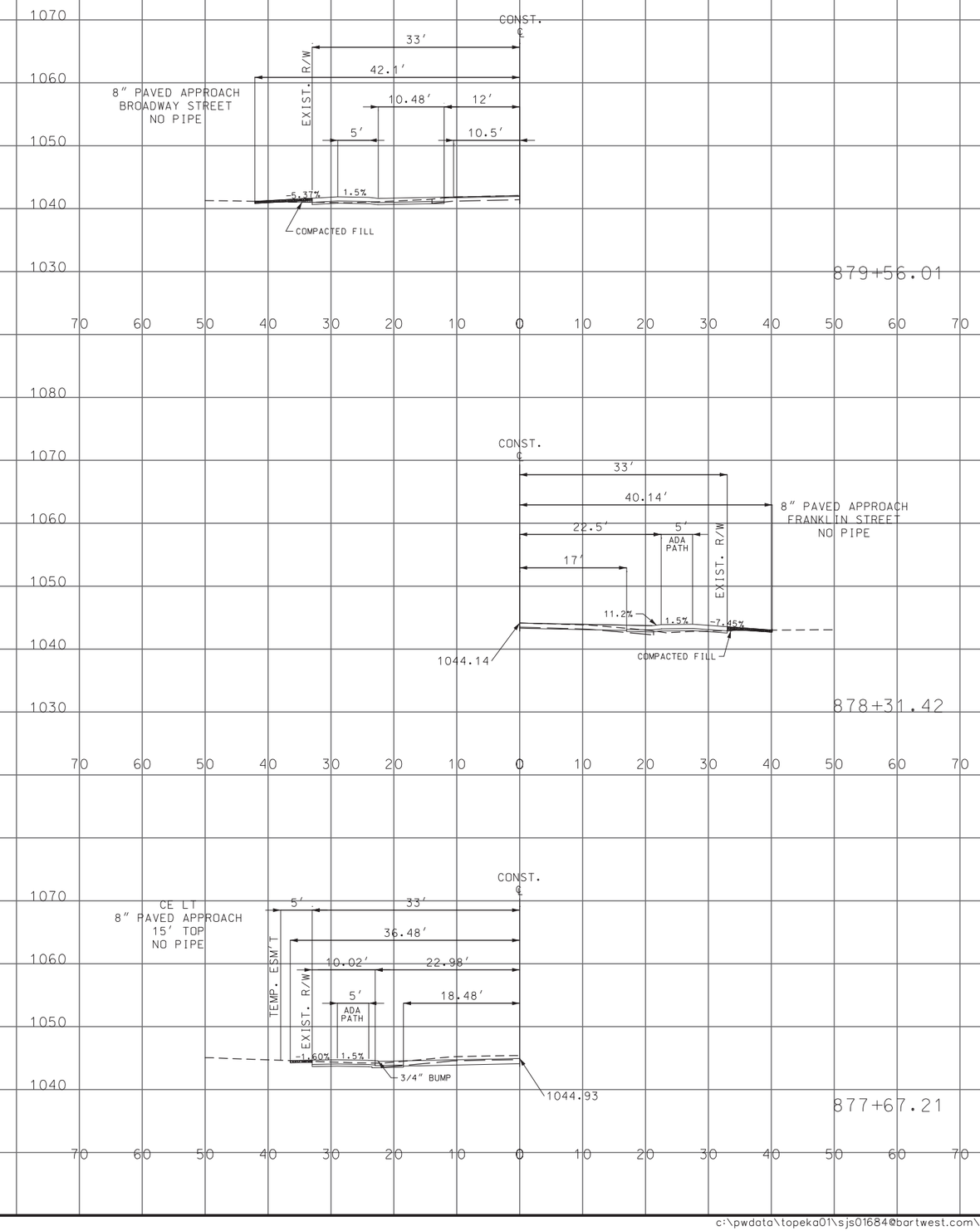
COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| REV. | DESCRIPTION | DATE |
|---|---|---|

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




DRIVE PROFILES
SPECIAL SHEET 11 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/12/2019
ROUTE: 6 | STATE: MO
DISTRICT: NW | SHEET NO.: 32
COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| REV. | DATE | DESCRIPTION |
|---|---|---|

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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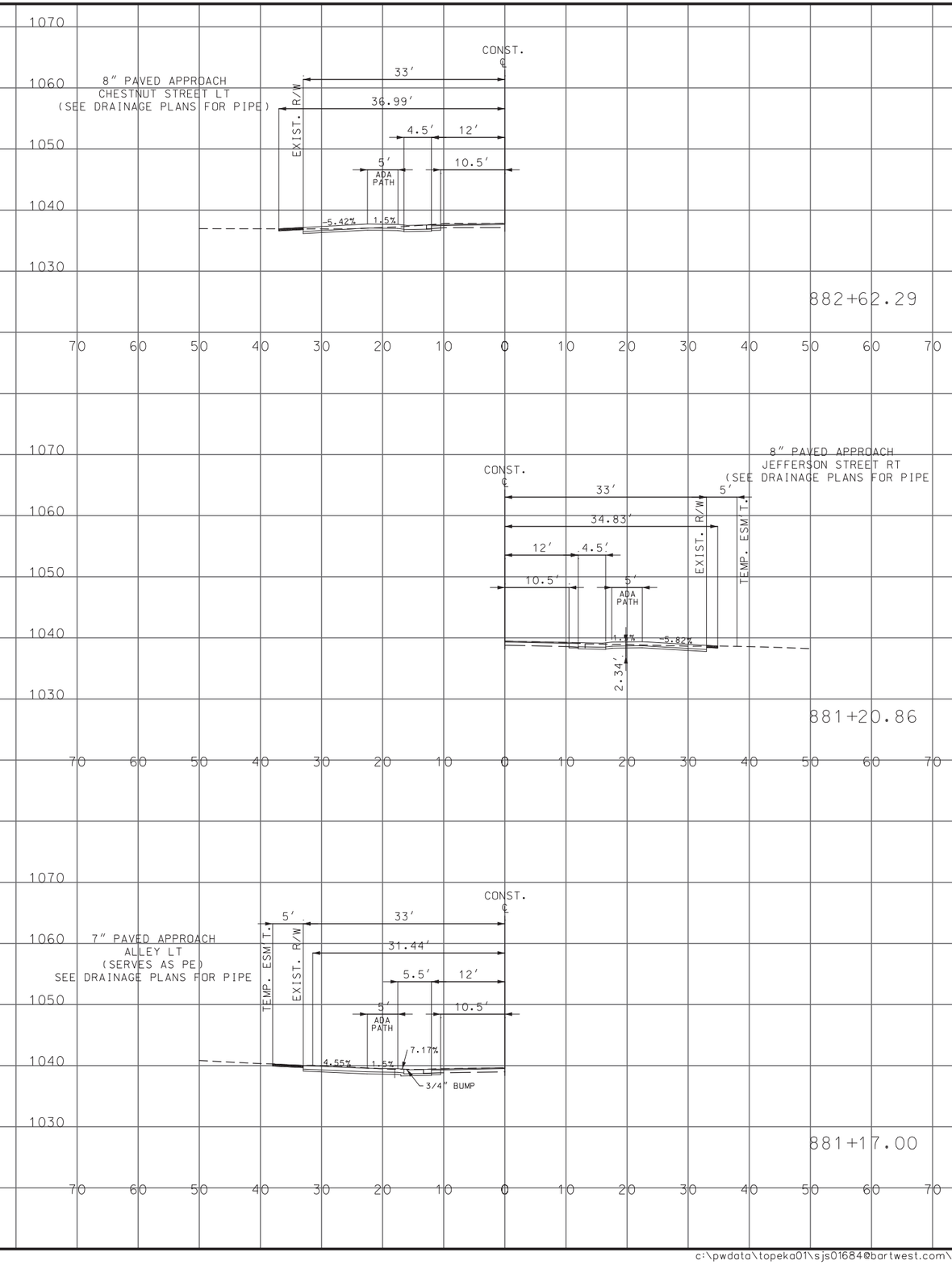



STATE OF MISSOURI
HERBERT R BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 33 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

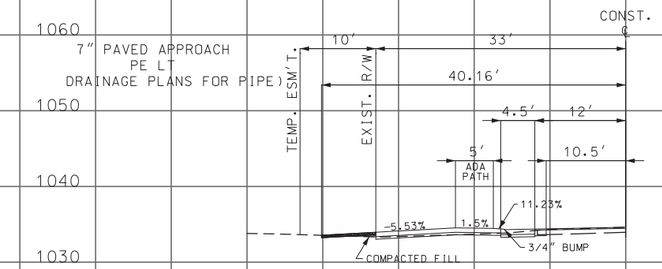
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

REV.




886+76.46

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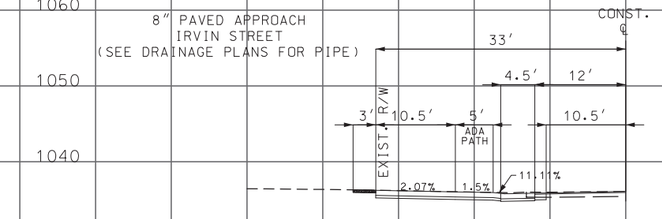


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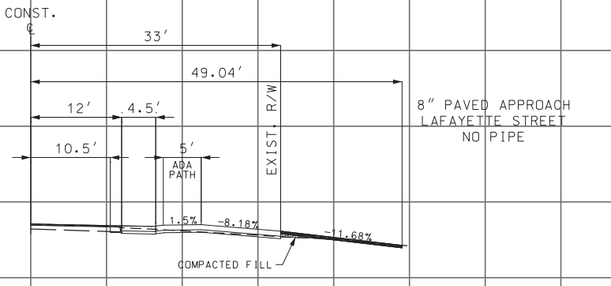


884+14.43

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DRIVE PROFILES
SPECIAL SHEET 13 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 34 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| REV. | DESCRIPTION | DATE |
|---|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


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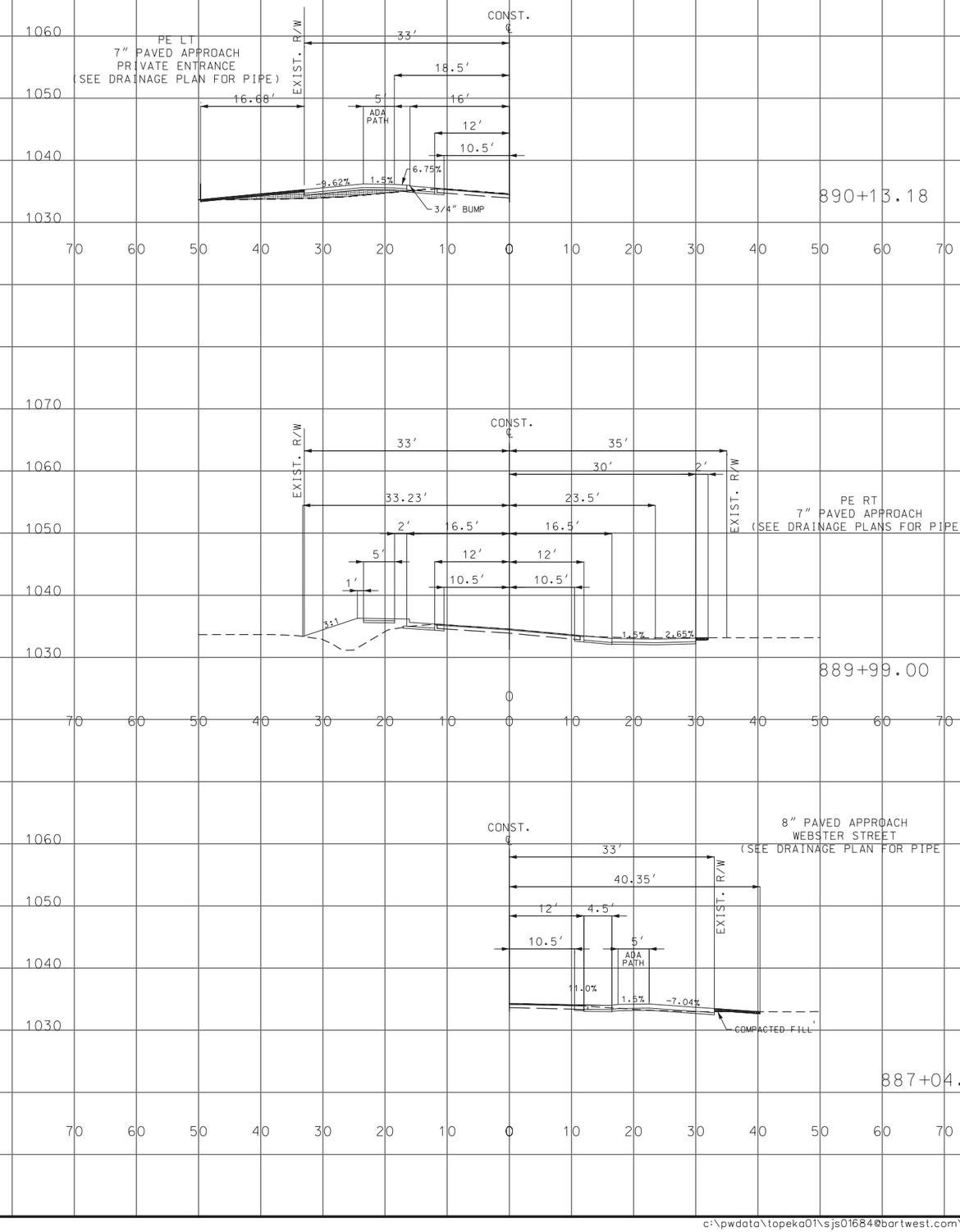


DRIVE PROFILES
SPECIAL SHEET 14 OF 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 35 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
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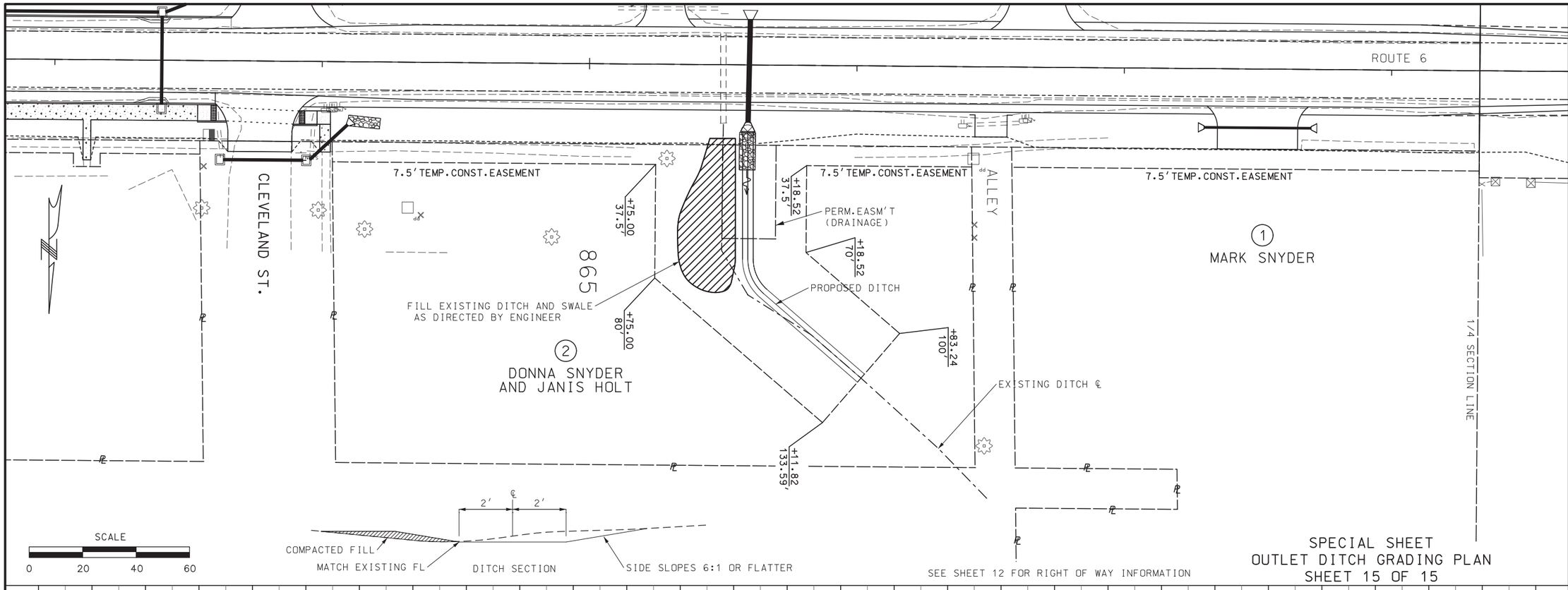
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM


REV.




STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 36 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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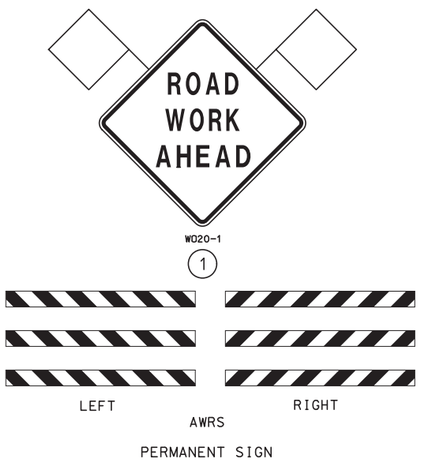
# ROUTE 6 BEGIN & END OF PROJECT SIGNING



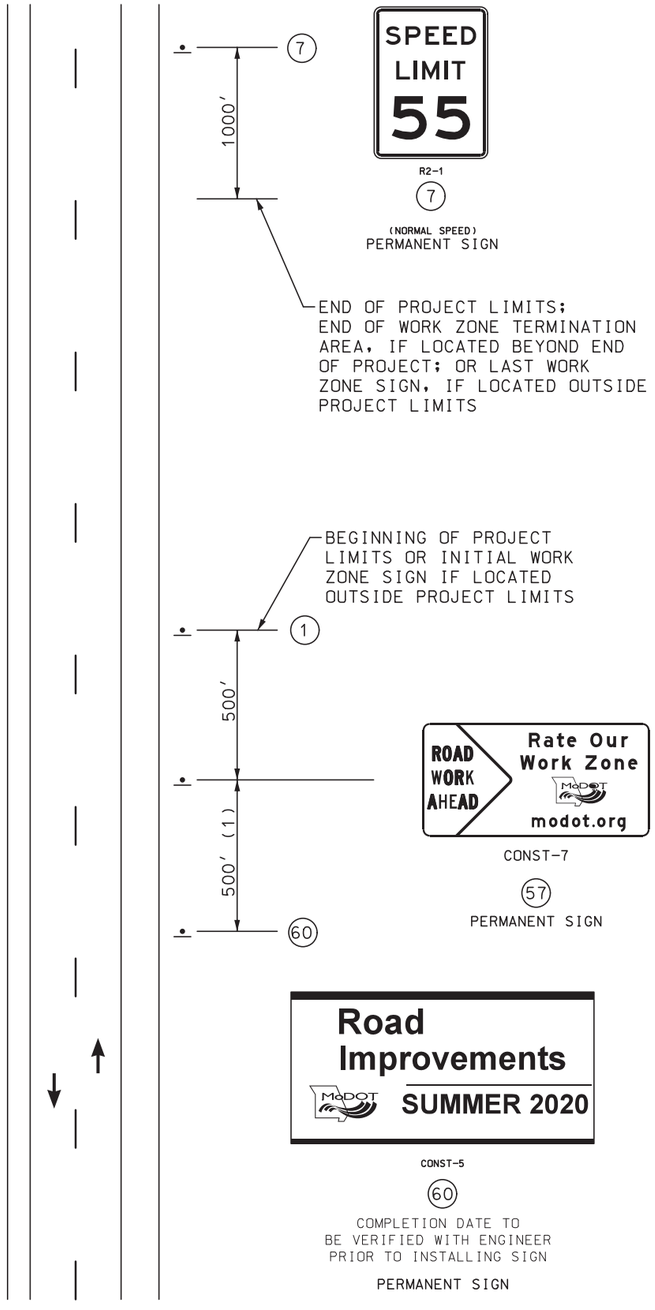

W020-1

(1)

LEFT RIGHT

AWRS

PERMANENT SIGN




(NORMAL SPEED)
PERMANENT SIGN

END OF PROJECT LIMITS; END OF WORK ZONE TERMINATION AREA, IF LOCATED BEYOND END OF PROJECT; OR LAST WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS

BEGINNING OF PROJECT LIMITS OR INITIAL WORK ZONE SIGN IF LOCATED OUTSIDE PROJECT LIMITS

CONST-7

(57)

PERMANENT SIGN

CONST-5

(60)

COMPLETION DATE TO BE VERIFIED WITH ENGINEER PRIOR TO INSTALLING SIGN

PERMANENT SIGN

ROUTE 6 BEGIN & END OF PROJECT SIGNING

## TRAFFIC CONTROL LEGEND

- • SIGN (SINGLE SIDED)
- ■ CHANNELIZER

NOTES:

NO DIRECT PAY WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL
SHEET 1 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 37 |

COUNTY: SULLIVAN

JOB NO.: J1P3239

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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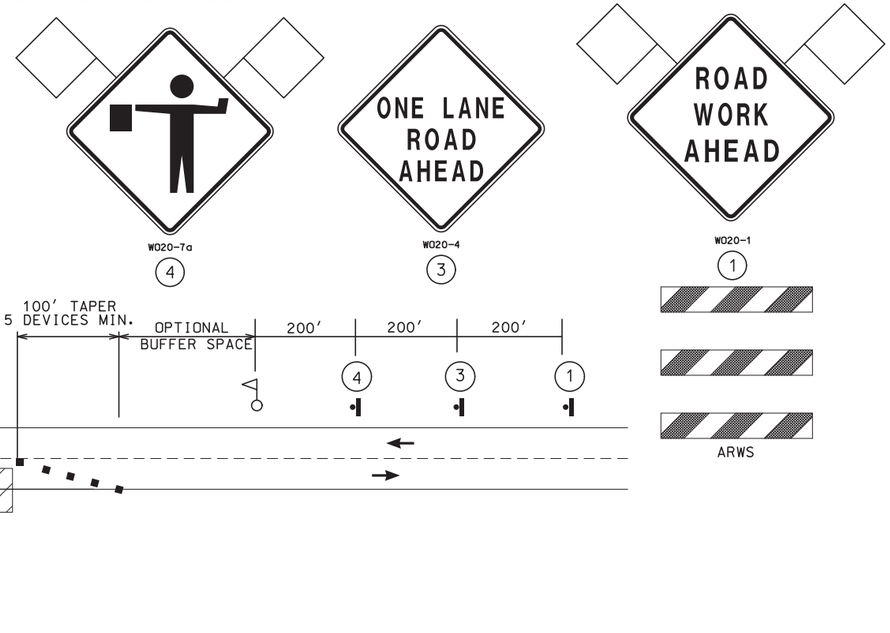
REV.

# LANE CLOSURE – FLAGGER CONTROL

NOTES:
1. THE QUANTITIES FOR TEMPORARY TRAFFIC CONTROL WERE DETERMINED BY ALLOWING ENOUGH DEVICES TO PROVIDE 400′ OF LANE CLOSURE AT ONE TIME.

2. THE ADVANCE WARNING RAIL SYSTEM IS REQUIRED FOR WORK ZONES LASTING 3 DAYS OR MORE ON STATE ROUTES. AWRS IS NOT REQUIRED ON SIDE ROADS OR CITY STREETS.

3. ALL SIGNS FOR THIS PROJECT ARE CONSIDERED PORTABLE AND NO DIRECT PAY WILL BE MADE FOR SIGN RELOCATION.




NOTES:

SIGN (2) NOT NEEDED IF LOCATED WITHIN LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN (2) IS ALREADY USED.

NOT TO SCALE

## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- FLASHING ARROW PANEL
- DIRECTIONAL INDICATOR BARRICADE
- TYPE III MOVEABLE BARRICADE WITH LIGHT

| TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES [2] | | | | |
|---|---|---|---|---|
| SPEED MPH (S) [1] | TAPER LENGTHS (L) FOR LATERAL SHIFTS (W) FT [2] | | CHANNELIZER SPACING [3], FT | |
| | SHOULDER [4] (T1) | LANE [5] (T2) | TAPERS | BUFFER/ WORK AREA |
| UP TO 35 | 70 | 245 | 35 [6] | 40 [6] |
| 40-45 | 150 | 540 | 40 [6] | 80 [6] |
| 50-55 | 185 | 660 | 50 [7] | 80 [7] |
| 60-70 | 235 | 840 | 60 [7] | 120 [7] |

| LONGITUDINAL BUFFER SPACE | |
|---|---|
| POSTED SPEED PRIOR TO CONSTRUCTION, MPH | LENGTH, FT. |
| UP TO 35 | 280 |
| 40-45 | 400 |
| 50-55 | 560 |
| 60-70 | 840 |

| SIGN SPACING FOR ADVANCE SIGN SERIES [8,9] | | |
|---|---|---|
| POSTED SPEED MPH (P) | NON-DIVIDED HIGHWAYS (S) | DIVIDED HIGHWAYS (S) |
| 0-35 | 200 FT | 200 FT |
| 40-45 | 350 FT | 500 FT |
| 50-55 | 500 FT | 1000 FT |
| 60-70 | SA - 1000 FT, SB - 1500 FT AND SC - 2640 FT | |

TAPER LENGTH (L)
L = W X P FOR 40 MPH OR MORE
L = $\frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET
W = LATERAL SHIFT IN FEET
P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

1) SPEED LIMIT IS BASED ON POSTED SPEED LIMIT.
2) TAPER LENGTHS MAY BE ADJUSTED TO ACCOMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
3) CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
4) BASED ON 10 FT. SHOULDER WIDTH.
5) BASED ON 12 FT. LANE WIDTH.
6) SPACING REDUCED TO 1/2 AT INTERSECTIONS.
7) SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.
8) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
9) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TRAFFIC CONTROL
SHEET 2 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 38
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM


REV.

# PAVEMENT REPLACEMENT – PORTABLE SIGNAL CONTROL

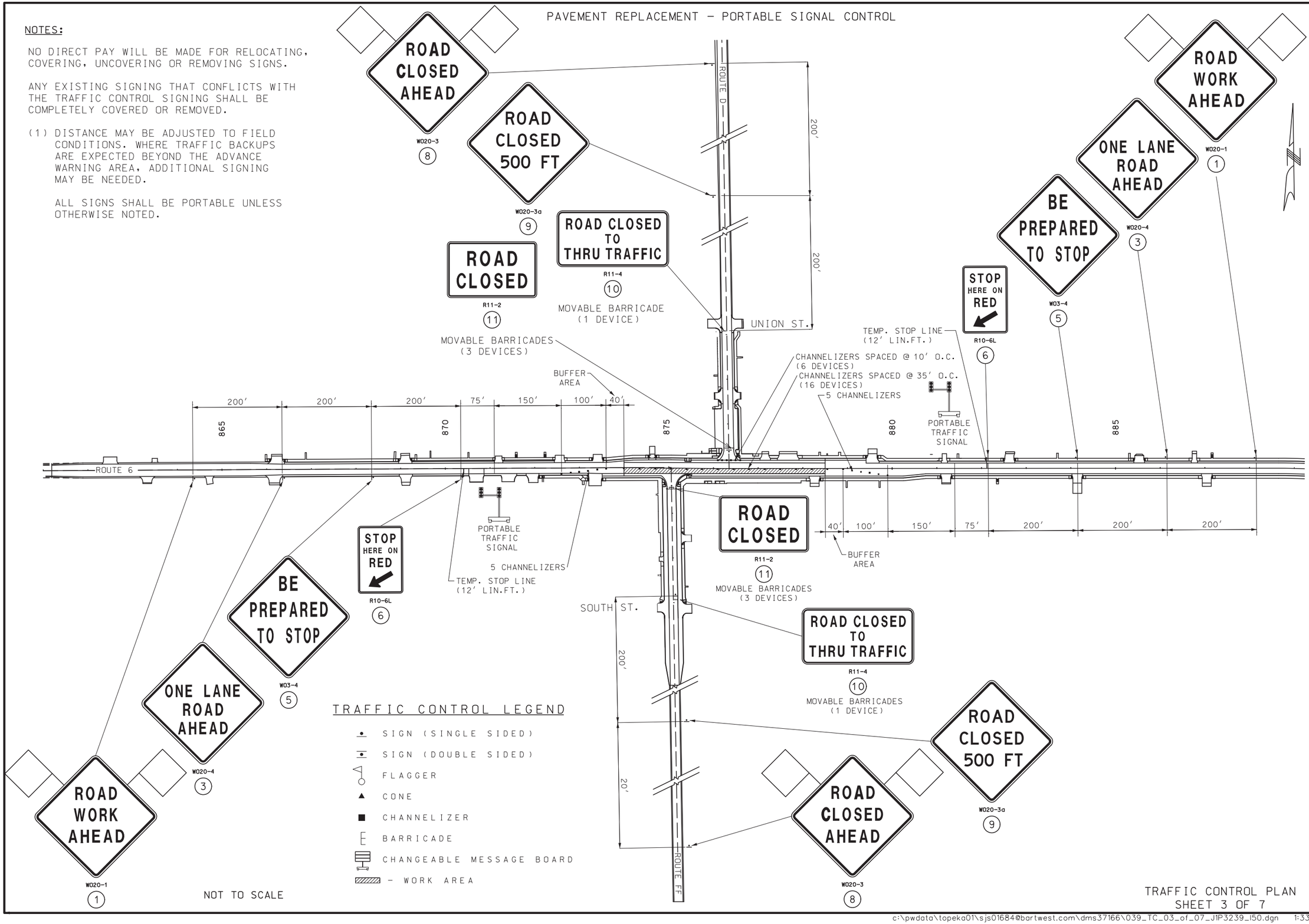
**NOTES:**

NO DIRECT PAY WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.




TRAFFIC CONTROL PLAN
SHEET 3 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DATE PREPARED | |
|---|---|
| 8/12/2019 | |
| ROUTE | STATE |
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 39 |
| COUNTY | |
| SULLIVAN | |
| JOB NO. | |
| J1P3239 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| REV. | DATE | DESCRIPTION |
|---|---|---|
| | | |

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Bartlett & West
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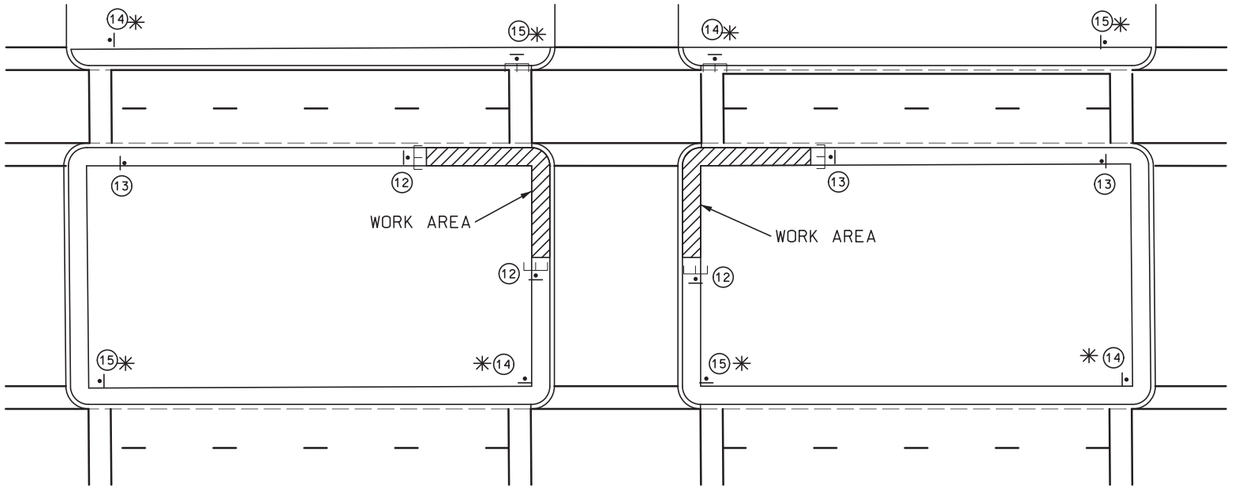
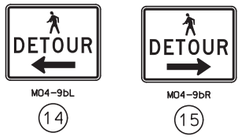
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

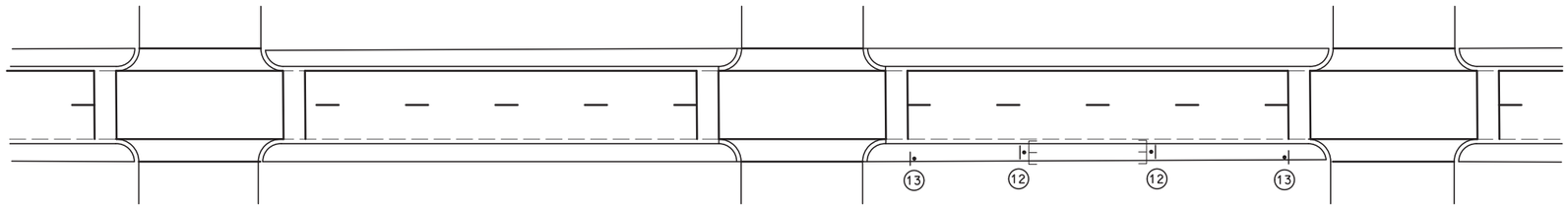
## CROSSWALK CLOSURE AND PEDESTRIAN DETOUR



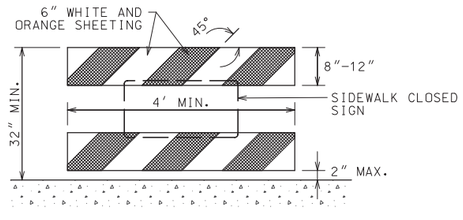

✳ – PEDESTRIAN DETOUR SIGNS TO DIRECT PEDESTRIANS TO SHORTEST/SAFEST PATH
DUPLICATE SIGNED DETOURS ARE NOT REQUIRED UNLESS DIRECTED BY THE ENGINEER

## SIDEWALK DETOUR AND PEDESTRIAN DETOUR




GENERAL NOTES:

1. SIGN SHOULD BE PLACED AT NEAREST INTERSECTION STATING SIDEWALK CLOSED.
2. ALL BUSINESSES SHOULD STILL REMAIN ACCESSIBLE BY ANOTHER ENTRANCE.
3. MAX DISTANCE BETWEEN CHANNELIZERS IN TAPER ARE 35′.
4. MAX DISTANCE BETWEEN CHANNELIZERS IN WORK ZONE ARE 50′
4. ALL SIGNS MAYBE BE RELOCATED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.




INSTALL DETECTABLE PEDESTRIAN CHANNELIZING BARRICADES AND SIDEWALK CLOSED SIGNS AS DIRECTED BY THE ENGINEER.

WHERE CHANNELIZING DEVICES ARE USED TO CHANNELIZE PEDESTRIANS, THERE SHALL BE CONTINUOUS DETECTABLE BOTTOM AND TOP SURFACES TO BE DETECTABLE TO USERS OF LONG CANES.

**DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE**

NOT TO SCALE

### TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- CHANGEABLE MESSAGE BOARD
- DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

TRAFFIC CONTROL PLAN
SHEET 4 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 40
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

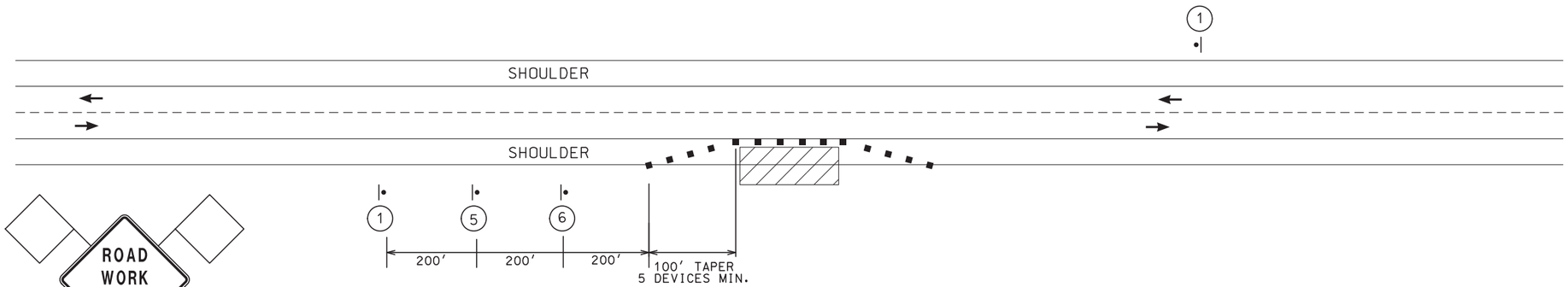
DESCRIPTION | DATE

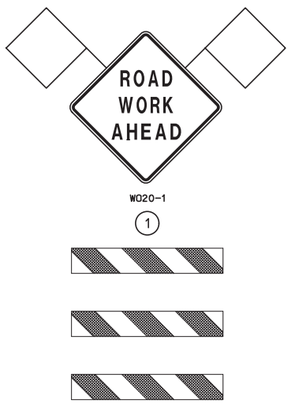
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

# TRAFFIC CONTROL PLAN FOR CONSTRUCTION BEYOND SHOULDER



NOTES:

SIGN (1) NOT NEEDED IF LOCATED WITHIN LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN (1) IS ALREADY USED.

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- FLASHING ARROW PANEL
- DIRECTIONAL INDICATOR BARRICADE
- TYPE III MOVEABLE BARRICADE WITH LIGHT

✳ – THE ADVANCE WARNING RAIL SYSTEM IS REQUIRED FOR WORK ZONES LASTING 3 DAYS OR MORE ON STATE ROUTES. AWRS IS NOT REQUIRED ON SIDE ROADS OR CITY STREETS.

| TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES [2] | | | | |
|---|---|---|---|---|
| SPEED MPH (S) [1] | TAPER LENGTHS (L) FOR LATERAL SHIFTS (W) FT [2] | | CHANNELIZER SPACING [3], FT | |
| | SHOULDER [4] (T1) | LANE [5] (T2) | TAPERS | BUFFER/ WORK AREA |
| UP TO 35 | 70 | 245 | 35 [6] | 40 [6] |
| 40-45 | 150 | 540 | 40 [6] | 80 [6] |
| 50-55 | 185 | 660 | 50 [7] | 80 [7] |
| 60-70 | 235 | 840 | 60 [7] | 120 [7] |

| LONGITUDINAL BUFFER SPACE | |
|---|---|
| POSTED SPEED PRIOR TO CONSTRUCTION, MPH | LENGTH, FT. |
| UP TO 35 | 280 |
| 40-45 | 400 |
| 50-55 | 560 |
| 60-70 | 840 |

| SIGN SPACING FOR ADVANCE SIGN SERIES [8, 9] | | |
|---|---|---|
| POSTED SPEED MPH (P) | NON-DIVIDED HIGHWAYS (S) | DIVIDED HIGHWAYS (S) |
| 0-35 | 200 FT | 200 FT |
| 40-45 | 350 FT | 500 FT |
| 50-55 | 500 FT | 1000 FT |
| 60-70 | SA - 1000 FT, SB - 1500 FT AND SC - 2640 FT | |

TAPER LENGTH (L)

L = W X P FOR 40 MPH OR MORE

$L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

1) SPEED LIMIT IS BASED ON POSTED SPEED LIMIT.
2) TAPER LENGTHS MAY BE ADJUSTED TO ACCOMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
3) CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
4) BASED ON 10 FT. SHOULDER WIDTH.
5) BASED ON 12 FT. LANE WIDTH.
6) SPACING REDUCED TO 1/2 AT INTERSECTIONS.
7) SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.
8) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
9) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TRAFFIC CONTROL PLAN
SHEET 5 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 41 |

COUNTY: SULLIVAN

JOB NO. J1P3239

CONTRACT ID.

PROJECT NO.

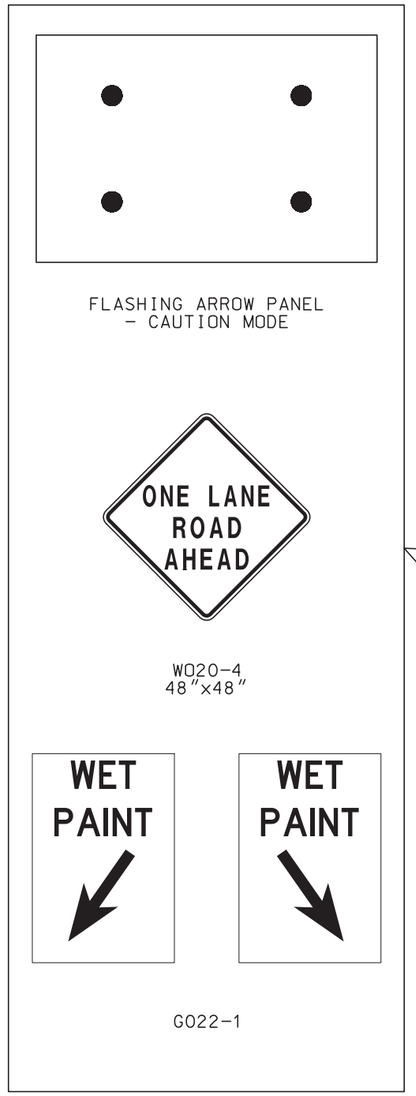
BRIDGE NO.

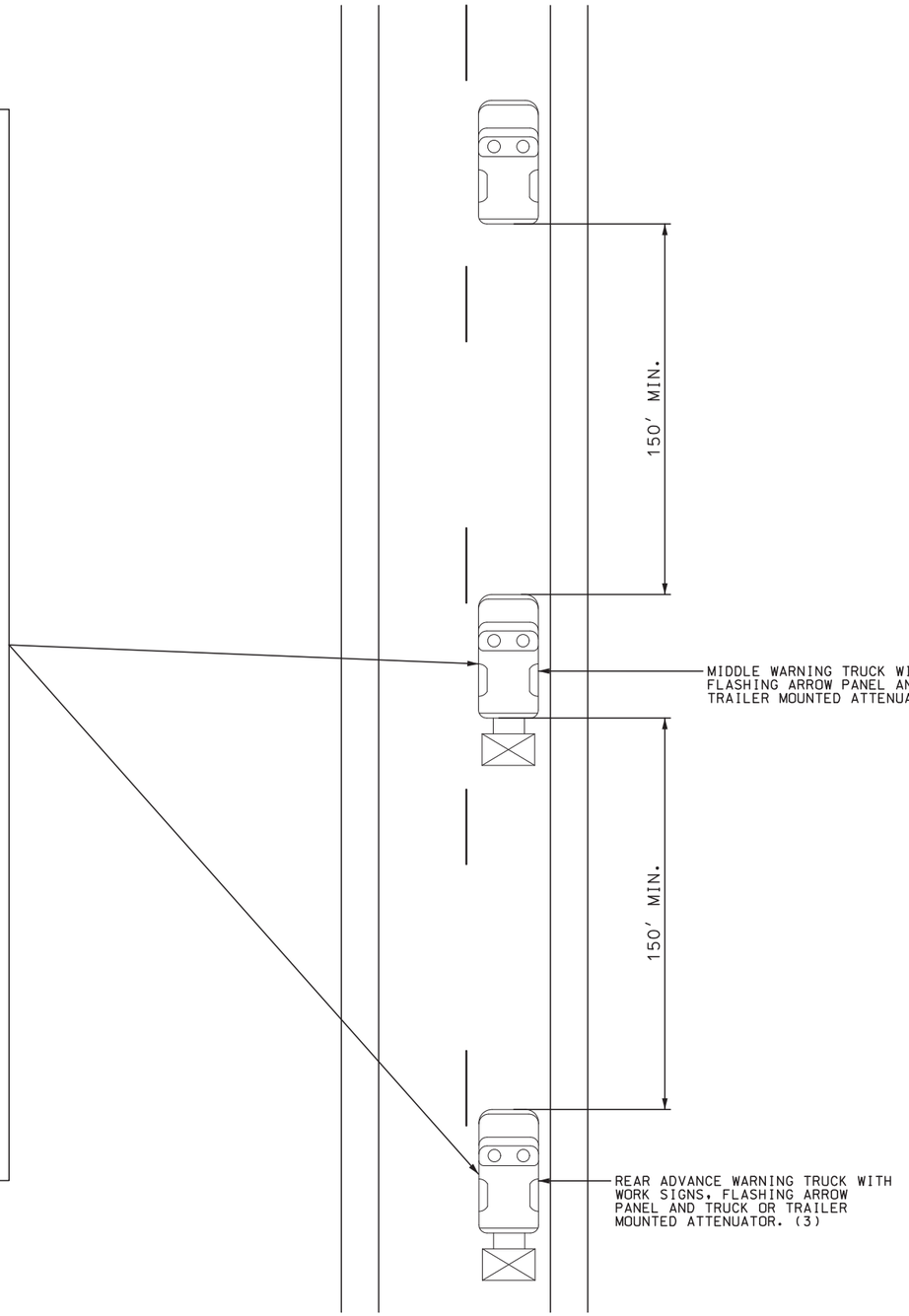
| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROPE LIGHTS.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

CENTER LINE/EDGE LINE STRIPING ON TWO-LANE HIGHWAYS

NOT TO SCALE

TRAFFIC CONTROL PLAN
SHEET 6 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 42 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

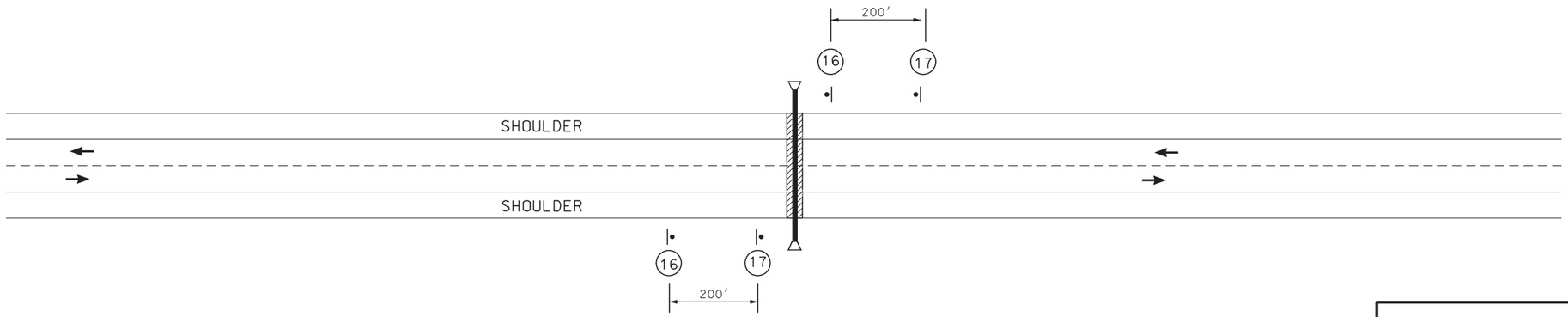
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

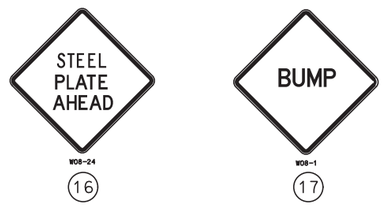
MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

REV.

# TRAFFIC CONTROL PLAN FOR CROSS ROAD CULVERT INSTALLATION
# (OPEN TO NORMAL TRAFFIC)

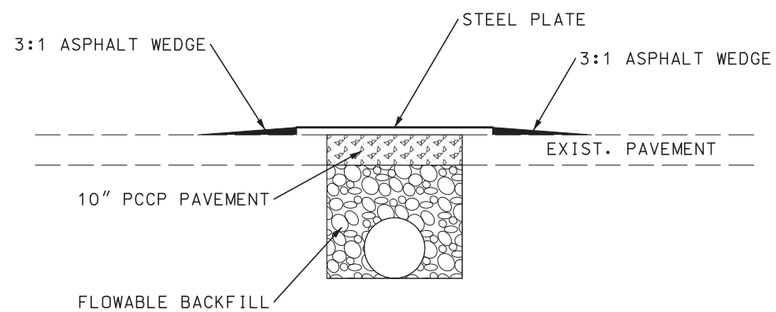



NOT TO SCALE

## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- FLASHING ARROW PANEL
- DIRECTIONAL INDICATOR BARRICADE
- TYPE III MOVEABLE BARRICADE WITH LIGHT




TYPICAL CULVERT INSTALLATION

GENERAL NOTES:

1. PERIMETER OF STEEL PLATE SHALL HAVE A GRADUAL TRANSTION OF 1V:3H. THE GRADUAL TRANSITION MAY BE ACCOMPLISHED B ASPHALT WEDGING OR A MECHANICAL FASTNER APPROVED BY THE ENGINEER.THE PLATE SHALL HAVE DELINEATION AND TREATED FOR SKID RESISTANCE.

2. STEEL PLATE SHALL REMAIN IN PLACE UNTIL PCCP PAVEMENT HAS REACHED 3000 PSI.

3. THE TOP OF FLOWABLE BACKFILL WILL BE COVERED WITH A FABRIC OR COATING TO PROVIDE BOND BREAKER BETWEEN THE BACKFILL AND PAVEMENT.

4. CROSS ROAD CULVERTS IN THE AREA OF PAVEMENT REPLACEMENT SHALL BE INSTALLED PRIOR TO NEW PAVEMENT. THESE CULVERTS WILL BACKFILLED AND PLATED UNTIL THE NEW PAVEMENT REPLACEMENT.

5. THERE WILL BE NO DIRECT PAYMENT FOR THE STEEL PLATE OR ASPHALT WEDGE.

TRAFFIC CONTROL PLAN
SHEET 7 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 43 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

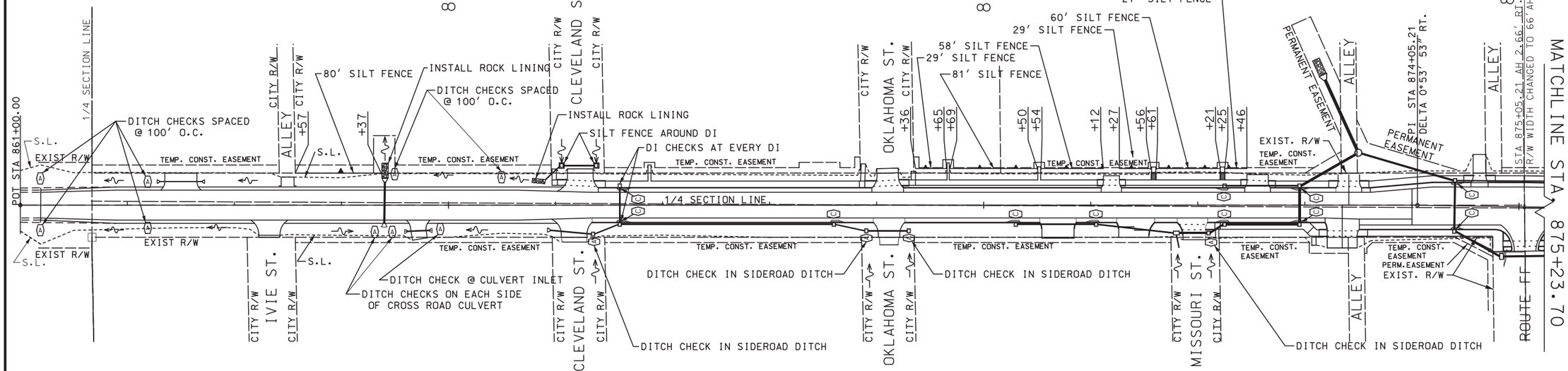
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

1. SOUTH SIDE OF ROUTE 6, THE RECEIVING WATERS IS MUSSEL FORK
2. NORTH SIDE OF ROUTE 6 AND WEST OF ROUTE D, THE RECEIVING WATER IS MUSSEL FORK.
3. NORTH SIDE OF ROUTE 6 AND EAST OF ROUTE D, THE RECIEVING WATER IS JOBS CREEK.




TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE
- SLOPE LIMITS

SCALE
0 50 100 150

EROSION CONTROL
SHEET 1 OF 2

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 44
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE | DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

REV.

1. SOUTH SIDE OF ROUTE 6, THE RECEIVING WATERS IS MUSSEL FORK
2, NORTH SIDE OF ROUTE 6 AND WEST OF ROUTE D, THE RECEIVING WATER IS MUSSEL FORK.
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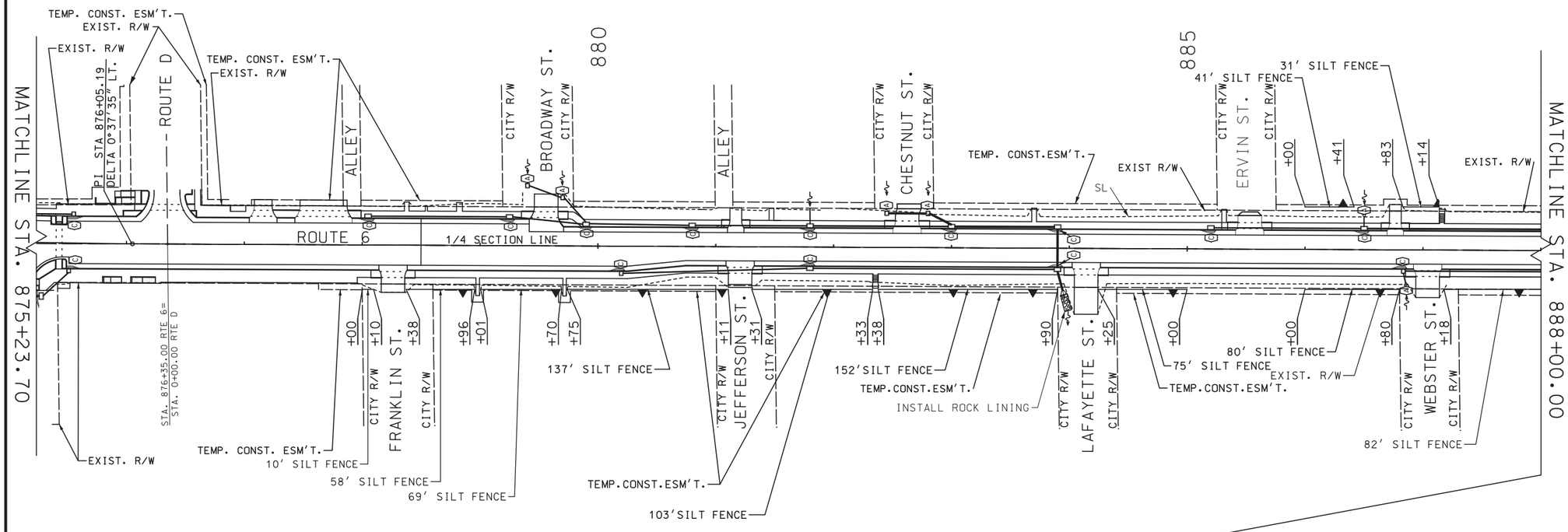
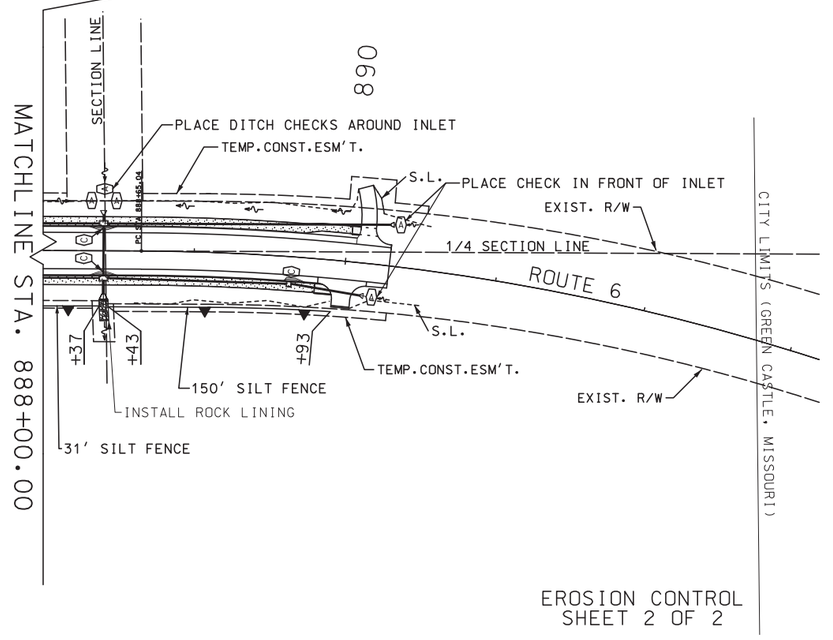



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- SILT FENCE
- SLOPE LIMITS

SCALE
0 50 100 150

EROSION CONTROL
SHEET 2 OF 2

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 45
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| REV. | DESCRIPTION | DATE |
|---|---|---|

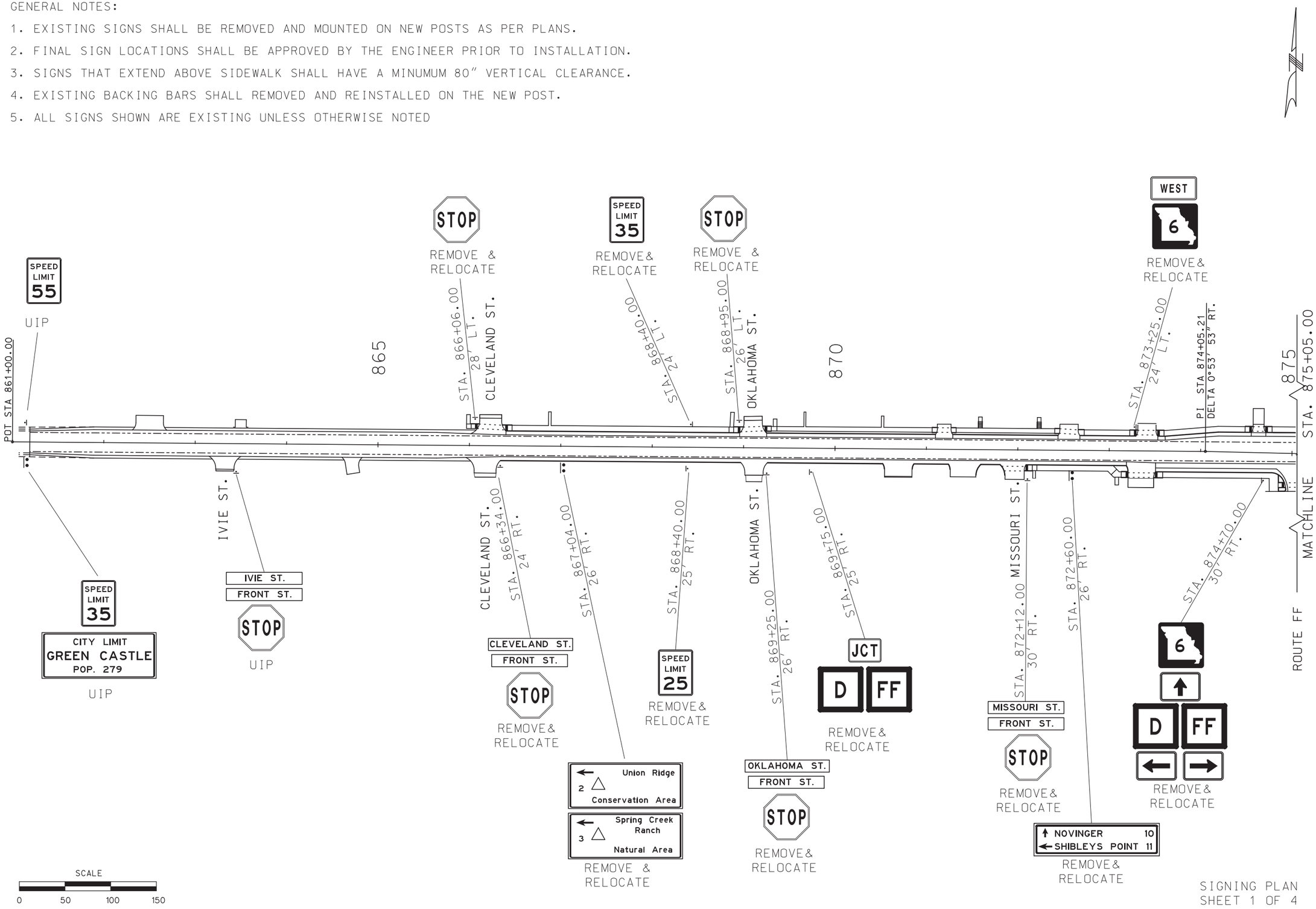
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

GENERAL NOTES:

1. EXISTING SIGNS SHALL BE REMOVED AND MOUNTED ON NEW POSTS AS PER PLANS.
2. FINAL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
3. SIGNS THAT EXTEND ABOVE SIDEWALK SHALL HAVE A MINUMUM 80" VERTICAL CLEARANCE.
4. EXISTING BACKING BARS SHALL REMOVED AND REINSTALLED ON THE NEW POST.
5. ALL SIGNS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED




SIGNING PLAN
SHEET 1 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 46 |

COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

WASHINGTON ST.
FRONT ST.
STOP
REMOVE & RELOCATE

6
FF D
REMOVE & RELOCATE

BROADWAY ST.
FRONT ST.
STOP
UIP

GREEN CITY 10
SHIBLEYS POINT 11
REMOVE & RELOCATE

JCT
FF D
REMOVE & RELOCATE

CHESTNUT ST.
FRONT ST.
STOP
REMOVE & RELOCATE

SPEED LIMIT 25
REMOVE& RELOCATE

ERVINE ST.
FRONT ST.
STOP
REMOVE & RELOCATE

Union Ridge Conservation Area 2
Spring Creek Ranch Natural Area 3
REMOVE & RELOCATE

STA. 875+05.00
MATCHLINE
ROUTE FF

PI STA 876+05.19
DELTA 0° 37' 35" LT.
STA. 876+15.00 37' LT.
ROUTE D
STA. 876+67.00 26.5' LT.
ROUTE 6
BROADWAY ST.
880
STA. 880+05.00 26' LT
STA.881+84.00 25' LT.
STA.882+50.00 25' LT.
CHESTNUT ST.
STA. 884+56.00 25' LT
885
STA.885+40.00 25' LT.
ERVINE ST.
STA. 888+00.00 26' LT.
SIGN

STA. 876+35.00 RTE. 6 = STA. 0+00.00 RTE. D
STA. 875+47.00 20' LT
STA. 875+36.00 18' RT
FRANKLIN ST.
STA. 878+42.00 30' RT.
STA.878+62.00 30' RT.
JEFFERSON ST.
STA.881+34.00 26' RT.
LAFAYETTE ST.
STA. 884+56.00 25' RT
STA. 884+30.00 25' RT
STA. 887+20.00 25' RT.
WEBSTER ST.

1
2
STA. 875+22.00 38.5' RT.
STA.875+35.00 19' RT.

FRANKLIN ST.
FRONT ST.
STOP
REMOVE & RELOCATE

EAST
6
REMOVE & RELOCATE

JEFFERSON ST.
FRONT ST.
STOP
REMOVE & RELOCATE

WEBSTER ST.
FRONT ST.
STOP
REMOVE & RELOCATE

LINCOLN ST.
FRONT ST.
STOP
REMOVE & RELOCATE

6
D
REMOVE & RELOCATE

W11-2
W16-7P
NEW SIGN

LAFAYETTE ST.
FRONT ST.
STOP
REMOVE & RELOCATE

SPEED LIMIT 35
REMOVE& RELOCATE

PC STA 888+65.04
890
SPEED LIMIT 35
CITY LIMIT
GREEN CASTLE
POP. 279
UIP

SPEED LIMIT 55
UIP

SCALE
0 50 100 150

GENERAL NOTES:
1. EXISTING SIGNS SHALL BE REMOVED AND MOUNTED ON NEW POSTS AS PER PLANS.
2. FINAL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
3. SIGNS THAT EXTEND ABOVE SIDEWALK SHALL HAVE A MINUMUM 80" VERTICAL CLEARANCE.
4. EXISTING BACKING BARS SHALL REMOVED AND REINSTALLED ON THE NEW POST.
5. ALL SIGNS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED

SIGNING PLAN
SHEET 2 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 47
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

EFFECTIVE 12-01-2017

| SIGNS | | | | | | PIPE POST ✳ | | | | | STRUCTURAL STEEL | | | | | | | | | | U CHANNEL POST | PERFORATED SQUARE STEEL TUBE POST | | | | | | | | | | | | | | | | FOOTINGS | | REMARKS AND OTHER REQUIRED ITEMS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 902 SIGNAL SIGNS TABULATED ON D-37A SHEET | | | | | | | | | | | POSTS ✳ | | | | | | BACKING BARS 2" X ⅜" BARS @ 2.55 LBS PER LIN FT | | | | TOTAL | | 2 IN | | | | | | | 2.5 IN | | | | | | BREAK-AWAY ASSEMBLY | EMBD | BOLT DOWN | |
| SIGN NO. | SIGN SIZE | STATION | HORZ CLEAR IF NOT STD | LOCATION | SIGN DTL. SHT. NO. | PIPE SIZE | POST NO.1 | POST NO.2 | LBS PER FT | TOTAL ITEM NO. 9031220 | POST DES NO. | POST NO.1 | POST NO.2 | POST NO.3 | LBS PER FT | TOTAL | NO. EACH | LGTH IN. | TOTAL LF | TOTAL LBS | ITEM NO. 9031210 | ITEM NO. 9031250 | POST NO.1 | POST NO.2 | TOTAL ITEM NO. 9031270A | ANCHOR 7 GA. ITEM NO. 9031273 | OMNI 7 GA. ITEM NO. 9031279 | ANCHOR 12 GA. ITEM NO. 9031271 | OMNI 12 GA. ITEM NO. 9031278 | POST NO.1 | POST NO.2 | TOTAL ITEM NO. 9031280 | 2.25" INSERT ITEM NO. 9031272 | ANCHOR 7 GA. ITEM NO. 9031281 | OMNI 7 GA. ITEM NO. 9031282 | ITEM NO. 9031241 | ITEM NO. 9031010 | ITEM NO. 9031020 | |
| | | | | | | IN. | LF | LF | | LBS | | LF | LF | LF | | LBS | EACH | IN. | LF | LBS | LBS | LF | LF | LF | | | | | | | | | | | | | | CU YDS | CU YDS | |
| | | 866+06 | 28′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 866+34 | 24′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 867+04 | 26′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 16 | 32 | | 6 | | 2 | 0.26 | | |
| | | 868+40 | 25′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 868+40 | 24′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 868+95 | 26′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 869+25 | 26′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 869+75 | 25′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | REUSE EXISTING BACKING BARS |
| | | 872+12 | 30′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 872+60 | 26′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 16 | 32 | | 6 | | 2 | 0.26 | | |
| | | 873+25 | 24′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 874+70 | 30′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | 16 | 3 | | 1 | 0.13 | | REUSE EXISTING BACKING BARS |
| | | 875+22 | 38.5′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 875+35 | 19′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| 1 | | 875+36 | 18′ | RT. | | | | | | | | | | | | | 2 | 30 | 5 | 12.75 | 13.00 | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| 2 | | 875+47 | 20′ | LT. | | | | | | | | | | | | | 2 | 30 | 5 | 12.75 | 13.00 | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 876+15 | 37′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 876+67 | 26.5′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | 16 | 3 | | 1 | 0.13 | | REUSE EXISTING BACKING BARS |
| | | 878+42 | 30′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 878+62 | 30′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 880+05 | 26′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 16 | 32 | | 3 | | 2 | 0.26 | | |
| | | 881+34 | 26′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 881+84 | 25′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | REUSE EXISTING BACKING BARS |
| | | 882+50 | 25′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 884+30 | 25′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 884+56 | 25′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 884+56 | 25′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 885+40 | 25′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 887+20 | 25′ | RT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.13 | | |
| | | 888+00 | 26′ | LT. | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | 16 | 32 | | 6 | | 2 | 0.26 | | |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 544 | 32 | 102 | | 10 | 4.29 | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | 30 | | | | | | | | | | | 544 | 32 | 102 | | 10 | 4.3 | | |

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

## ROUND PIPE POST AND FOOTING DATA TABLE

| NOM. SIZE | WEIGHT | | STUB LENGTH | FOOTING | | CONCRETE |
|---|---|---|---|---|---|---|
| (IN.) | LBS/FT | LBS/IN | | DIA. | DEPTH | C.Y. |
| 2½ | 5.79 | 0.48 | 4′-3¾″ | 12″ | 4′-6″ | 0.13 |
| 3 | 7.58 | 0.63 | 4′-3¾″ | 12″ | 4′-6″ | 0.13 |
| 4 | 10.79 | 0.90 | 5′-3¾″ | 18″ | 5′-6″ | 0.36 |

## POST AND FOOTING DATA TABLE

| POST DES. NO. | NOM. SIZE | POST WEIGHT LBS/FT | POST WEIGHT LBS/IN | POST STUB LENGTH | FOOTING DIA. | FOOTING LEVEL GROUND DEPTH | FOOTING LEVEL GROUND C.Y. | FOOTING 6:1 GRADE DEPTH | FOOTING 6:1 GRADE C.Y. | FOOTING 4:1 GRADE DEPTH | FOOTING 4:1 GRADE C.Y. | FOOTING 3:1 OR 2:1 GRADE DEPTH | FOOTING 3:1 OR 2:1 GRADE C.Y. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | W6 | 9.0 | 0.75 | 3′-0″ | 15″ | 3′-0″ | 0.14 | 3′-2″ | 0.15 | 3′-3″ | 0.16 | 3′-6″ | 0.17 |
| 2 | W6 | 15.0 | 1.25 | 4′-0″ | 24″ | 4′-0″ | 0.47 | 4′-2″ | 0.50 | 4′-3″ | 0.51 | 4′-6″ | 0.54 |
| 3 | W8 | 18.0 | 1.50 | 4′-6″ | 28″ | 4′-6″ | 0.71 | 4′-8″ | 0.73 | 4′-9″ | 0.74 | 5′-0″ | 0.78 |
| 4 | W10 | 22.0 | 1.83 | 5′-0″ | 36″ | 5′-0″ | 1.31 | 5′-2″ | 1.36 | 5′-3″ | 1.39 | 5′-6″ | 1.45 |
| 5 | W10 | 26.0 | 2.17 | 5′-0″ | 36″ | 5′-0″ | 1.31 | 5′-3″ | 1.37 | 5′-5″ | 1.43 | 5′-9″ | 1.52 |
| 6 | W12 | 35.0 | 2.92 | 5′-6″ | 36″ | 5′-6″ | 1.44 | 5′-9″ | 1.52 | 5′-11″ | 1.56 | 6′-3″ | 1.65 |

SIGNING SHEET
3 OF 4
D-29

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/10/2020
ROUTE: 6 | STATE: MO
DISTRICT: NW | SHEET NO.: 48
COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DATE | DESCRIPTION |
|---|---|
| 2/10/20 | ADDED BREAKAWAYS ASSEMBLIES |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

EFFECTIVE 10-01-2016

## STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | STATION | LOCATION | TYPE | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SH | SH | | | | | | | | | | | | | | | |
| | | | SIGN DESCRIPTION, SIZES & NUMBER OF EACH | | | | | | | | | | | | | | | | |
| | | | W11-2 48"X 48" | W16-7P 24"X 12" | | | | | | | | | | | | | | | |
| 1 | 875+36 | RTE 6-18.0' RT. | 1 | 1 | | | | | | | | | | | | | | | |
| 2 | 875+47 | RTE 6-20.0' LT. | 1 | 1 | | | | | | | | | | | | | | | |
| | | TOTAL | 2 | 2 | | | | | | | | | | | | | | | |

## SIGN SUMMARY

| STANDARD SIGN OR SPECIAL SIGN NUMBER | SIGN DETAIL SHEET NO. | NO. EACH | SIZE, TYPE & SQUARE FEET | | | | |
|---|---|---|---|---|---|---|---|
| | | | SIZE | FLAT SHEET SH ITEM NO. 9035004A | FLAT SHEET FLUORESCENT SHF ✳ ITEM NO. 9035069A | STRUCTURAL ST ITEM NO. 9035011A | STRUCTURAL FLUORESCENT STF ✳ ITEM NO. 9035071A |
| W11-2 | | 2 | 48"X 48" | 32.0 | | | |
| W16-7P | | 2 | 24"X 12" | 4.0 | | | |
| | | | | | | | |
| | | | TOTAL | 36.0 | | | |

✳ ORANGE, YELLOW & YELLOW/GREEN

SIGNING SHEET
4 OF 4

D-30

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/12/2019
ROUTE: 6 | STATE: MO
DISTRICT: NW | SHEET NO.: 49
COUNTY: SULLIVAN
JOB NO.: J1P3239
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

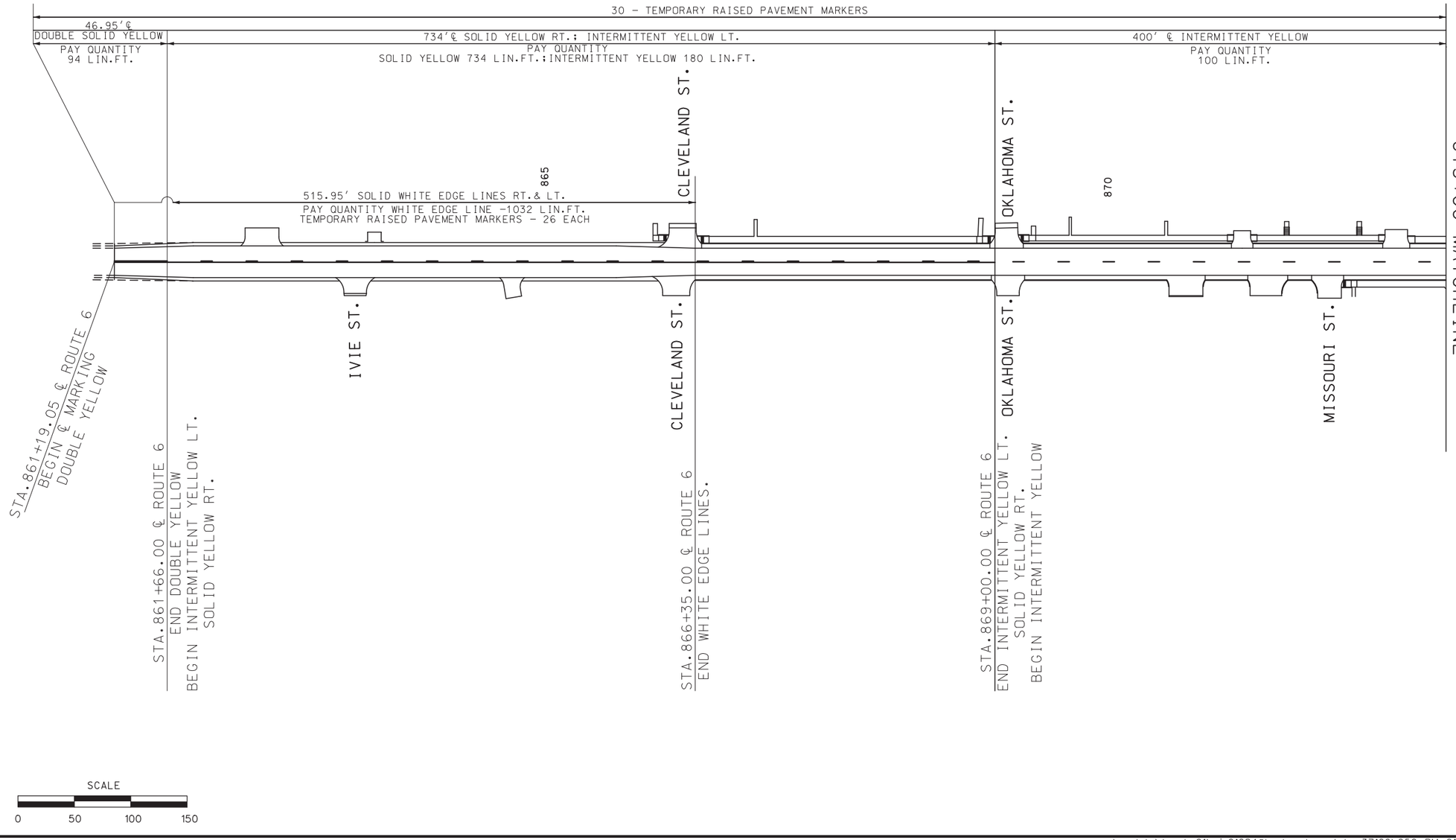
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

GENERAL NOTE
1. PAVEMENT MARKING MATERIAL IS WATERBORNE PAINT WITH TYPE L BEADS.
2. ℄ MARKINGS SHALL BE 4″ WIDE AND EDGE LINE MARKINGS SHALL BE 6″ WIDE.
3.ROUTE 6 ADT IS GREATER THAN 400, EDGELINE MARKINGS REQUIRED.




PAVEMENT MARKING
SHEET 1 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 50
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
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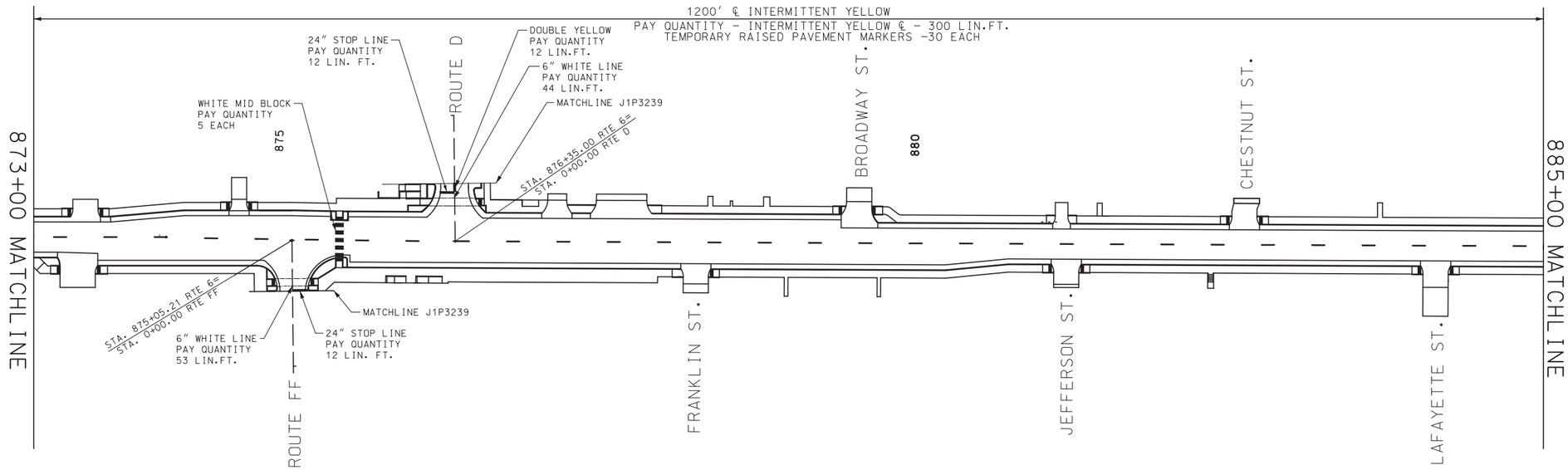
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

GENERAL NOTE
1. PAVEMENT MARKING MATERIAL IS WATERBORNE PAINT WITH TYPE L BEADS.
2. ℄ MARKINGS SHALL BE 4″ WIDE AND EDGE LINE MARKINGS SHALL BE 6″ WIDE.
3. STOP BARS, CROSSING LINES AND MID BLOCKS SHALL BE PREFORMED THERMOPLASTIC MATERIAL.
3.ROUTE 6 ADT IS GREATER THAN 400, EDGELINE MARKINGS REQUIRED.




SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 2 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019
ROUTE 6 | STATE MO
DISTRICT NW | SHEET NO. 51
COUNTY SULLIVAN
JOB NO. J1P3239
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| REV. | DESCRIPTION | DATE |
|---|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
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PHONE 573-634-3181 - FAX 573-634-7904
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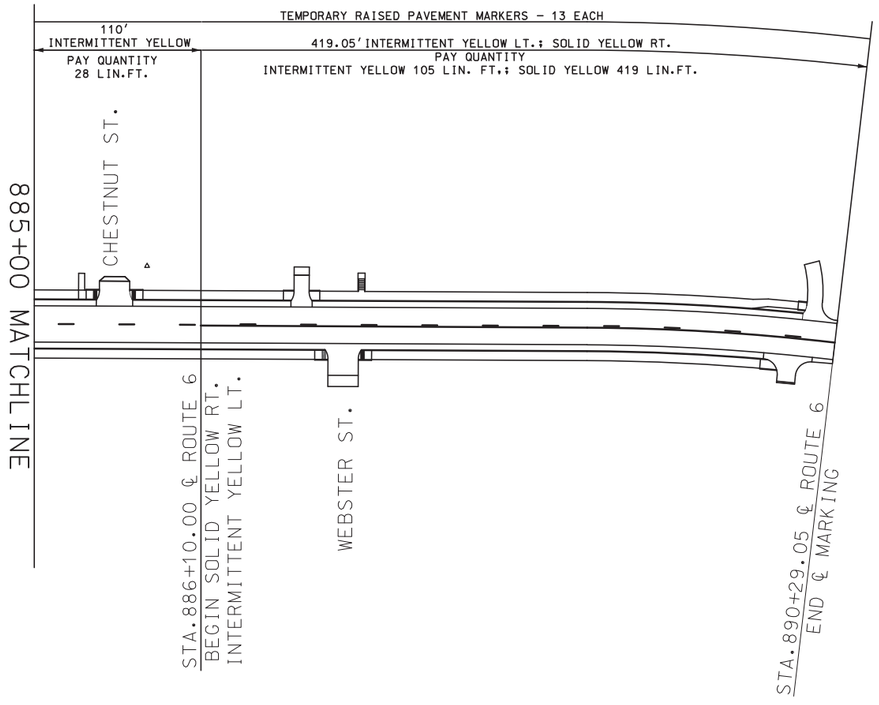


SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 3 OF 3

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 52 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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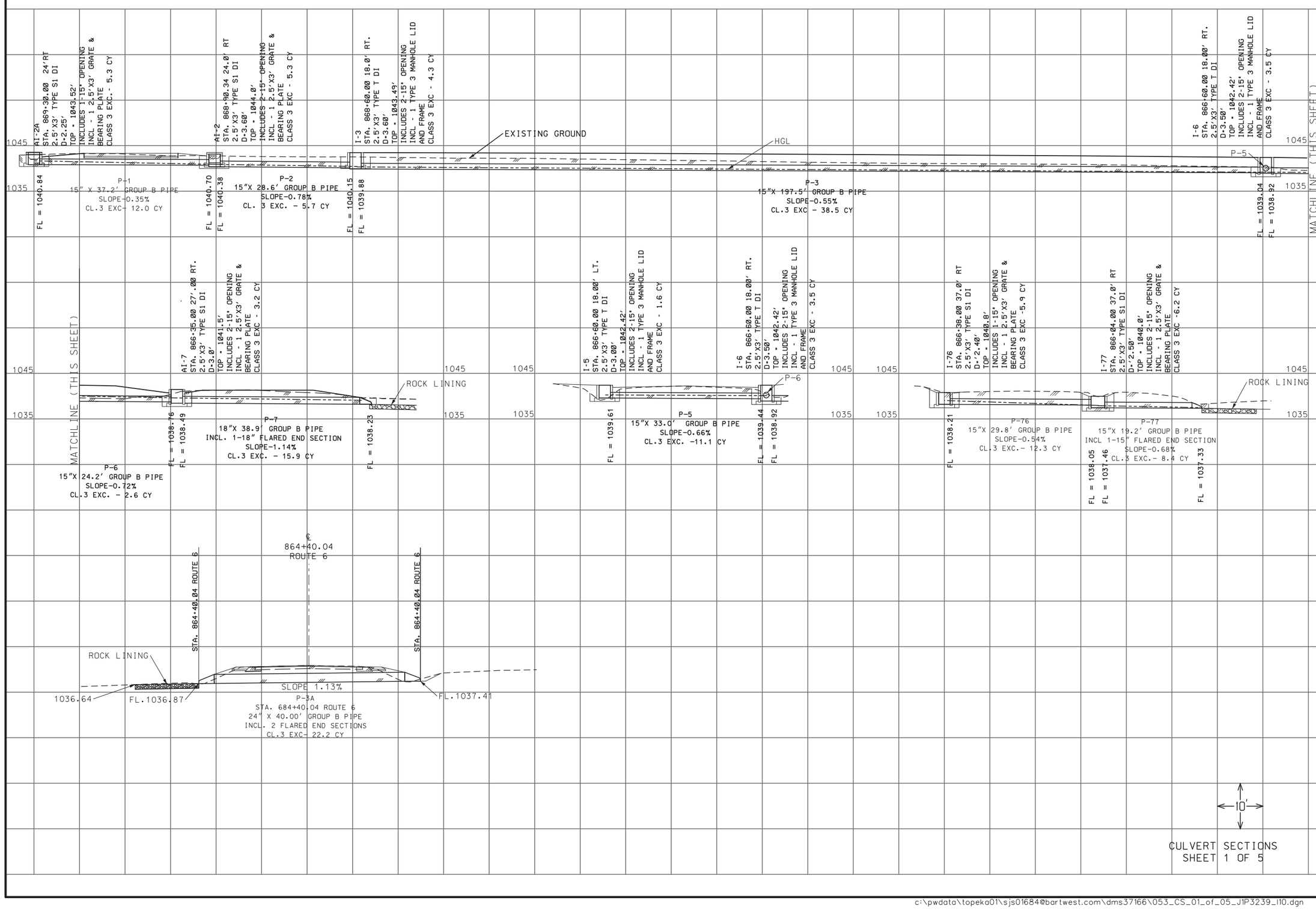
REV.




STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 53 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DATE | DESCRIPTION |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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CULVERT SECTIONS
SHEET 2 OF 5

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 54 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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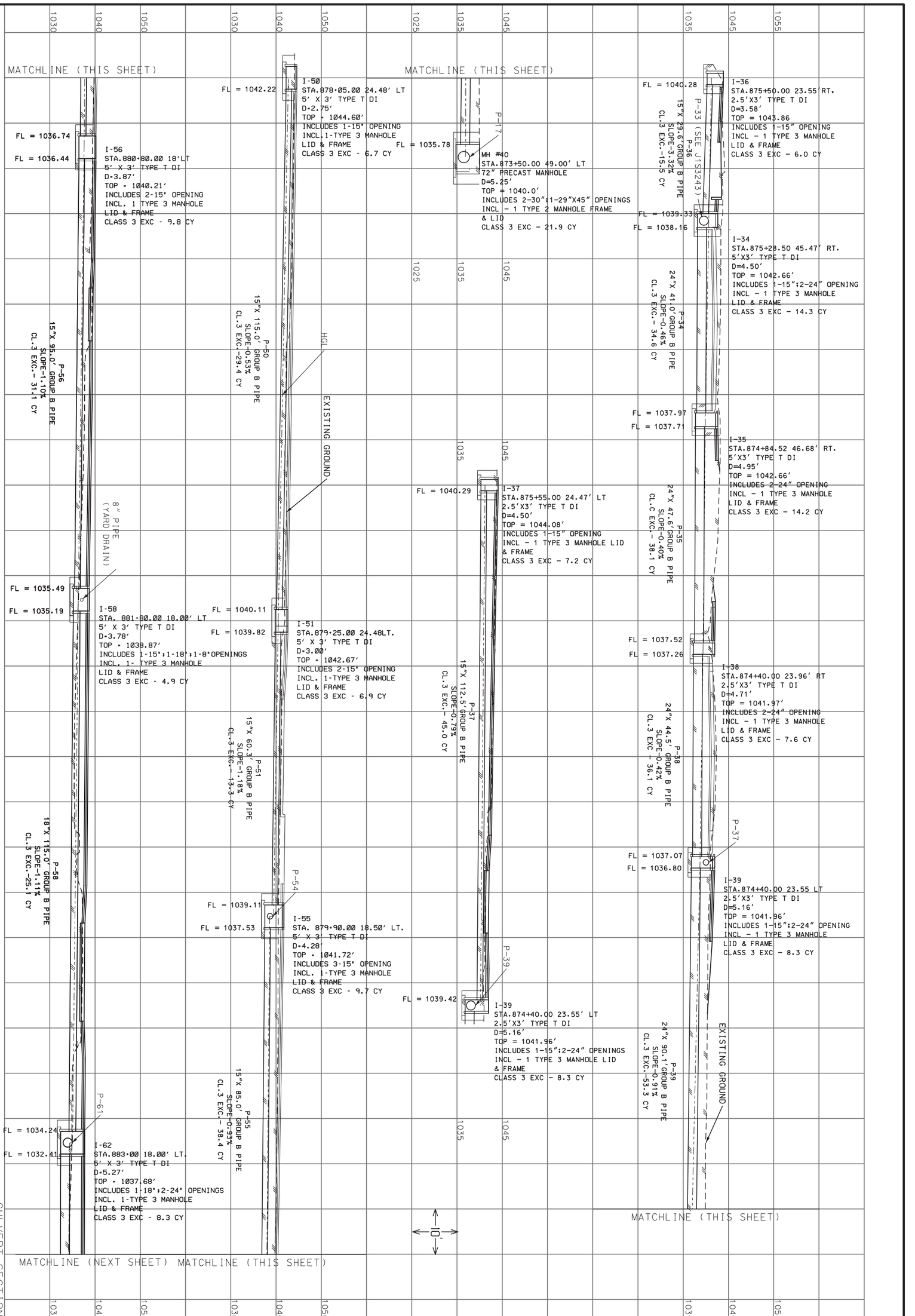



CULVERT SECTIONS
SHEET 3 OF 5

c:\pwdata\topeka01\sjs016840@bartwest.com\dms3766\055_CS_03_of_05_JJP3239_110.dgn 1:34:41 PM 8/12/2019


**Bartlett&West**
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM


MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

| DATE | DESCRIPTION |
|---|---|
| | |

BRIDGE NO.
PROJECT NO.
CONTRACT ID. J1P3239
JOB NO. J1P3239
COUNTY SULLIVAN
DISTRICT NW
SHEET NO. 55
ROUTE 6
STATE MO
DATE PREPARED 8/12/2019

THIS SHEET HAS BEEN DIGITALLY SIGNED AND SEALED ELECTRONICALLY
STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER 2006018621
PROFESSIONAL ENGINEER

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE (PREVIOUS SHEET)

A1-60
STA. 882+45.00 29.00' LT.
2.5' X 3' TYPE S1 DI
D=3.90'
TOP = 1037.3'
INCLUDES 1-24" OPENING
INCL. 1-2.5'X3' GRATE & BEARING PLATE
CLASS 3 EXC - 6.2 CY

FL = 1033.40

P-60
24"X 32.5' GROUP B PIPE
SLOPE=0.32%
CL.3 EXC.= 18.1 CY

A1-61
STA. 883+00.00 29.00' LT.
2.5' X 3' TYPE S1 DI
D=4.00'
TOP = 1037.0'
INCLUDES 2-24" OPENING
INCL. 1-2.5'X3' GRATE & BEARING PLATE
CLASS 3 EXC - 6.5 CY

FL = 1033.30
FL = 1033.00

P-61
24"X 21.0' GROUP B PIPE
SLOPE=0.35%
CL.3 EXC.= 6.8 CY

I-62
STA. 883+00.00 18.00' LT.
5' X 3' TYPE T DI
D=5.27'
TOP = 1037.68'
INCLUDES 1-18"x2-24" OPENINGS
INCL. 1-TYPE 3 MANHOLE LID & FRAME
CLASS 3 EXC - 8.3 CY

FL = 1032.96

P-62

I-63
STA. 883+90.00 18.00' LT
5' X 3' TYPE T DI
D=5.90'
TOP = 1037.41'
INCLUDES 2-24" OPENING
INCL. 1-TYPE 3 MANHOLE LID & FRAME
CLASS 3 EXC - 10.0 CY

FL = 1032.17
FL = 1031.66

P-63
24"X 33.0' GROUP B PIPE
SLOPE=0.69%
CL.3 EXC.= 29.2 CY

P-59

I-64
STA.883+90.00 18.00' RT.
5' X 3' TYPE T DI
D=6.40'
TOP = 1037.41'
INCLUDES 2-24"x1-15" OPENINGS
INCL. 1 TYPE 3 MANHOLE LID & FRAME
CLASS 3 EXC - 12.6 CY

FL = 1031.43
FL = 1031.16

P-64
24"X 17.2' GROUP B PIPE
INCL 1 - 24" FLARED END SECTION
SLOPE=0.63%
CL.3 EXC.= 7.0 CY

ROCK LINING

I-58
STA. 881+80.00 18.00' LT
5' X 3' TYPE T DI
D=3.78'
TOP = 1038.87'
INCLUDES 1-15"x1-18"; 1-8" OPENINGS
INCL. 1- TYPE 3 MANHOLE LID & FRAME
CLASS 3 EXC - 4.9 CY

FL = 1031.03

BEVEL PIPE TO SLOPE

FL 1036.74

FL 1037.12

P-58B
8"X 10.5' GROUP B PIPE
SLOPE=5.93%
CL.3 EXC.= 0.4 CY

P-58

P-62

A1-53
STA.879+40.00 51.00' LT
2.5' X 3' TYPE S1 DI
D=2.75'
TOP = 1041.20'
INCLUDES 1-15" OPENING
INCL.1-2.5'X3' GRATE & BEARING PLATE
CLASS 3 EXC - 6.1 CY

FL = 1038.73

P-53
15"X 29.2' GROUP B PIPE
SLOPE=0.79%
CL.3 EXC.= 9.1 CY

A1-54
STA.879+70.00 41.00' LT.
2.5' X 3' TYPE S1 DI
D=3.25'
TOP = 1041.0'
INCLUDES 2-15" OPENING
INCL.1-2.5'X3' GRATE & BEARING PLATE
CLASS 3 EXC - 6.4 CY

FL = 1038.50
FL = 1038.24

P-54
15"X 28.2' GROUP B PIPE
SLOPE=0.66%
CL.3 EXC.= 10.1 CY

P-51

I-55
STA. 879+90.00 18.50' LT.
5' X 3' TYPE T DI
D=4.28'
TOP = 1041.72'
INCLUDES 3-15" OPENING
INCL. 1-TYPE 3 MANHOLE LID & FRAME
CLASS 3 EXC - 9.7 CY

FL = 1038.06

10'

MATCHLINE (THIS SHEET)

I-57
STA.880+20.00 23.00' RT.
2.5' X 3' TYPE T DI
D=4.50'
TOP = 1041.03'
INCLUDES 1-15" OPENING
INCL. 1- TYPE 3 MANHOLE LID & FRAME
CLASS 3 EXC - 5.8 CY

FL = 1036.69

P-57
15"X 156.3' GROUP B PIPE
SLOPE=1.39%
CL.3 EXC.=66.5 CY

I-59
STA.881+80.00 18.00' RT.
5' X 3' TYPE T DI
D=4.75'
TOP = 1038.87'
INCLUDES 2-15" OPENING
INCL. 1-TYPE 3 MANHOLE LID & FRAME
CLASS 3 EXC - 9.1 CY

FL = 1034.53
FL = 1034.23

HGL

EXISTING GROUND

P-59
15"X 205.0' GROUP B PIPE
SLOPE=0.48%
CL.3 EXC.= 76.6 CY

MATCHLINE (THIS SHEET)

P-63

I-64
STA.883+90.00 18.00' RT.
5' X 3' TYPE T DI
D=6.40'
TOP = 1037.41'
INCLUDES 2-24"x1-15" OPENINGS
INCL. 1 TYPE 3 MANHOLE LID & FRAME
CLASS 3 EXC - 12.6 CY

FL = 1031.96
FL = 1031.16

CULVERT SECTIONS
SHEET 4 OF 5

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 56 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

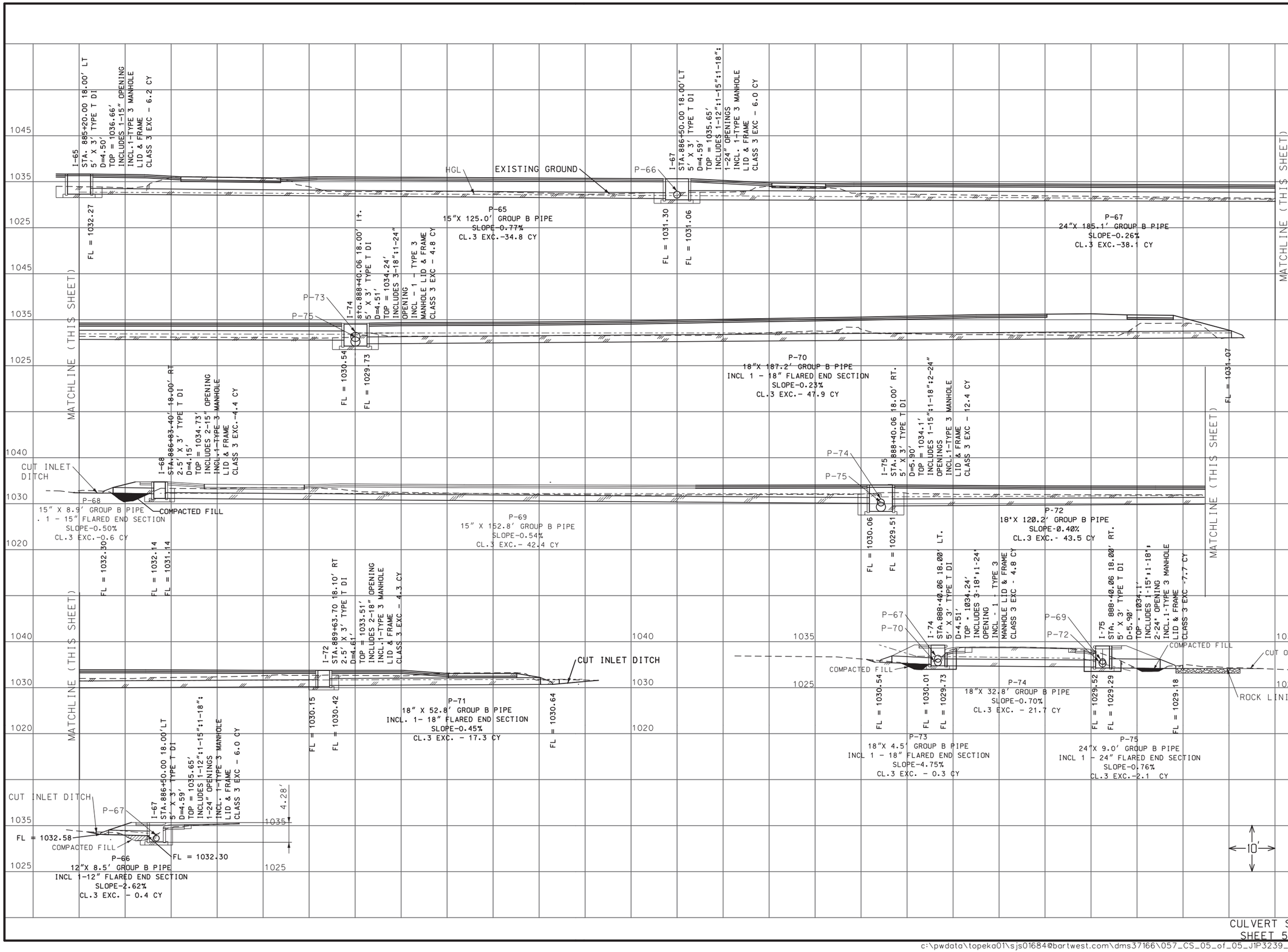
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




CULVERT SECTION
SHEET 5 OF 5

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
8/12/2019

| ROUTE | STATE |
|---|---|
| 6 | MO |
| DISTRICT | SHEET NO. |
| NW | 57 |

COUNTY
SULLIVAN

JOB NO.
J1P3239

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## DESIGN DESIGNATION

ROUTE FF
A.A.D.T. - 2018 = 125
A.A.D.T. - 2038 = 218
D.H.V. = 21%
T = 14%
V = 40 M.P.H.
FUNCTIONAL CLASSIFICATION- MAJOR COLLECTOR

ROUTE D
A.A.D.T. - 2018 = 97
A.A.D.T. - 2038 = 170
D.H.V. = 16%
T = 10%
V = 40 M.P.H.
FUNCTIONAL CLASSIFICATION- MINOR COLLECTOR

TEMPORARY EASEMENTS

PERMANENT EASEMENTS

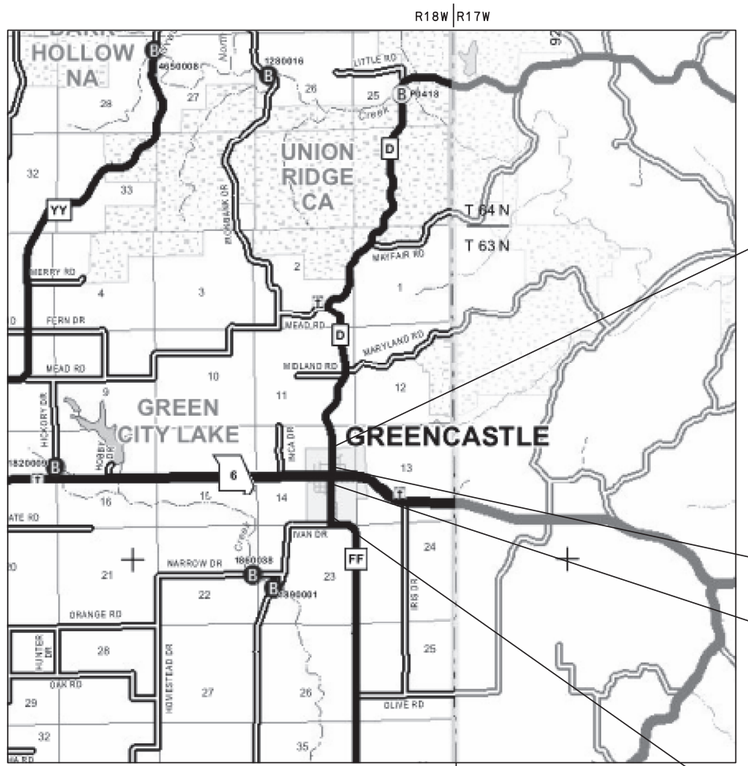
## CONVENTIONAL SYMBOLS
(USED IN PLANS)

| | EXISTING | NEW |
|---|---|---|
| BUILDINGS AND STRUCTURES | | |
| GUARD RAIL | | |
| GUARD CABLE | | |
| CONCRETE RIGHT-OF-WAY MARKER | | |
| STEEL RIGHT-OF-WAY MARKER | | |
| LOCATION SURVEY MARKER | | |
| UTILITIES | | |
| FIBER OPTICS | -FO- | -FO- |
| OVERHEAD CABLE TV | -OTV- | -OTV- |
| UNDERGROUND CABLE TV | -UTV- | -UTV- |
| OVERHEAD TELEPHONE | -OT- | -OT- |
| UNDERGROUND TELEPHONE | -UT- | -UT- |
| OVERHEAD POWER | -OE- | -OE- |
| UNDERGROUND POWER | -UE- | -UE- |
| SANITARY SEWER | -S- | -S- |
| STORM SEWER | -SS- | -SS- |
| GAS | -G- | -G- |
| WATER | -W- | -W- |
| MANHOLE | SAN | |
| FIRE HYDRANT | HYD | |
| WATER VALVE | WV | |
| WATER METER | WM | |
| DROP INLET | DI | |
| DITCH BLOCK | | |
| GROUND MOUNTED SIGN | SIGN | |
| LIGHT POLE | | |
| H-FRAME POWER POLE | | |
| TELEPHONE PEDESTAL | PED | |
| FENCE | | |
| CHAIN LINK | -V- | |
| WOVEN WIRE | -X- | |
| GATE POST | | |
| BENCHMARK | BM | |

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
# PLANS FOR PROPOSED
# STATE HIGHWAY
# SULLIVAN COUNTY

KEY MAP
SHOWING LOCATION OF SULLIVAN COUNTY




J1S3243
PAVING, DRAINAGE, & ADA IMPROVEMENTS
LENGTH = 0.219 MILES

J1S3243
PAVING, DRAINAGE, & ADA IMPROVEMENTS
LENGTH 0.466 MILES

¼ 0 ½ 1
SCALE IN MILES

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

## INDEX OF SHEETS


| DESCRIPTION | SHEET NUMBER |
|---|---|
| TITLE SHEET | 1 |
| TYPICAL SECTIONS (TS) (4 SHEETS) | 2 |
| QUANTITIES (QU) (7 SHEETS) | 3 |
| PLAN-PROFILE (PP) | 4-11 |
| RIGHT OF WAY (RW) | 12-19 |
| REFERENCE POINTS (RP) | 20 |
| COORDINATE POINTS (CP) | 21 |
| SPECIAL SHEETS (SS) | 22-30 |
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| EROSION CONTROL SHEETS (EC) | 38-40 |
| SIGNING (SN) | 41-44 |
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| CULVERT SECTIONS (CS) | 48-52 |
| CROSS SECTIONS (XS) | 1-20 |


## LENGTH OF PROJECT

| | | |
|---|---|---|
| ROUTE D | | |
| BEGINNING OF PROJECT | STA. 0+45.90 | |
| END OF PROJECT | STA. 12+00.00 | |
| APPARENT LENGTH | 1,154.10 | FEET |
| EQUATIONS AND EXCEPTIONS: | NONE | |
| TOTAL CORRECTIONS | 0.00 | FEET |
| NET LENGTH OF PROJECT | 1,156.07 | FEET |
| STATE LENGTH | 0.219 | MILES |
| ROUTE FF | | |
| BEGINNING OF PROJECT | STA. 0+40.28 | |
| END OF PROJECT | STA. 25+00.00 | |
| APPARENT LENGTH | 2,459.72 | FEET |
| EQUATIONS AND EXCEPTIONS: | NONE | |
| TOTAL CORRECTIONS | 0.00 | FEET |
| NET LENGTH OF PROJECT | 2,459.72 | FEET |
| STATE LENGTH | 0.466 | MILES |

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

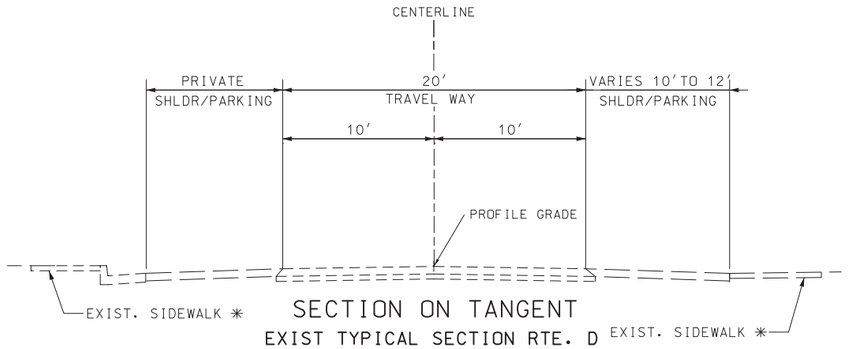
DATE PREPARED: 8/21/2019
ROUTE: D/FF | STATE: MO
DISTRICT: NW | SHEET NO.: 1
COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

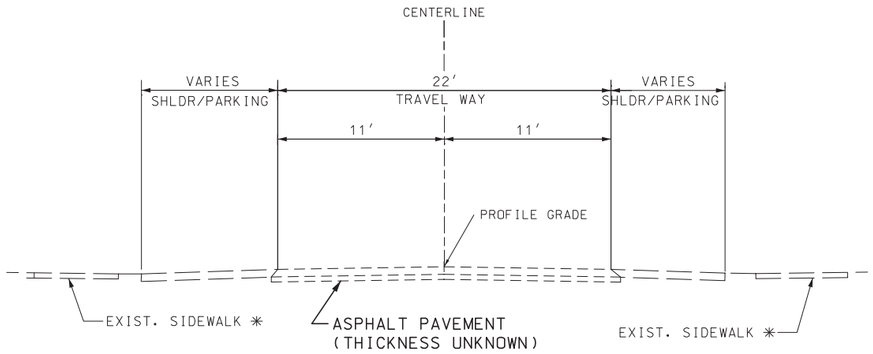
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

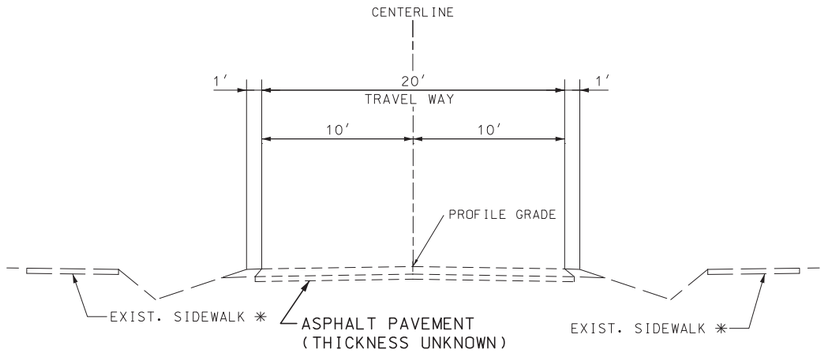

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM



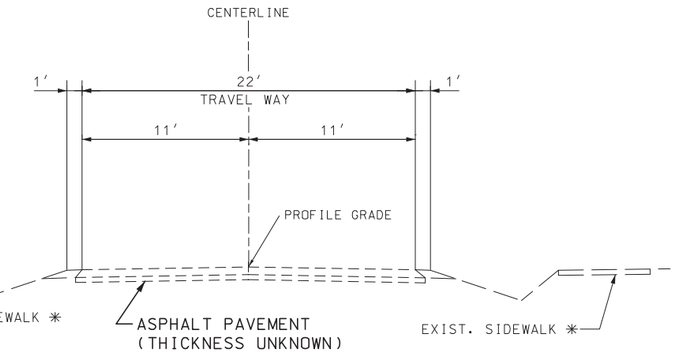

SECTION ON TANGENT
EXIST TYPICAL SECTION RTE. D
STA. 0+45.90 TO STA. 1+40.00



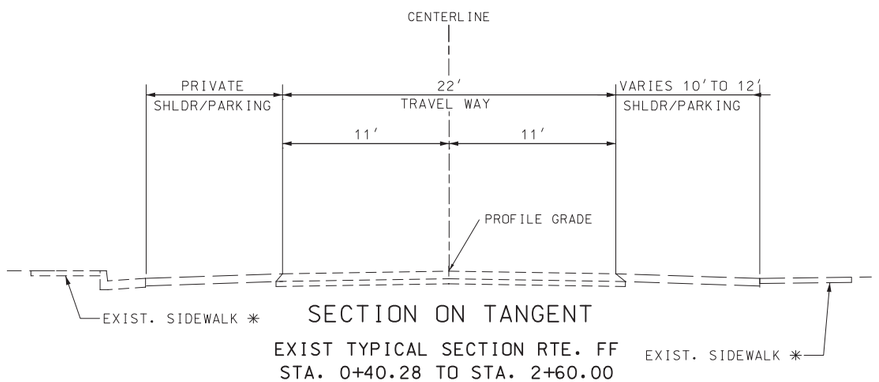

SECTION ON TANGENT
EXIST TYPICAL SECTION RTE. FF
STA. 2+60.00 TO STA. 3+00.00




SECTION ON TANGENT
EXIST TYPICAL SECTION RTE. D
STA. 1+40.00 TO STA. 12+00.00




SECTION ON TANGENT
EXIST TYPICAL SECTION RTE. FF
STA. 3+00.00 TO STA. 25+00.00




SECTION ON TANGENT
EXIST TYPICAL SECTION RTE. FF
STA. 0+40.28 TO STA. 2+60.00

✳ EXIST. SIDEWALK WIDTH AND
LOCATIONS VARY. FIELD VERIFY.

NOT TO SCALE

TYPICAL SECTIONS

SHEET 1 OF 4

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

DATE PREPARED: 8/16/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 2 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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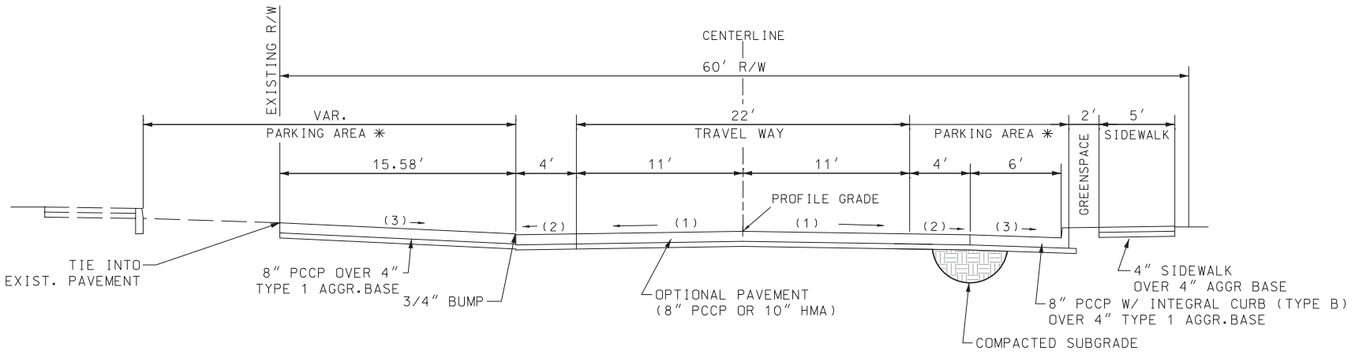
WWW.BARTWEST.COM




## SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE. D
STA. 0+45.90 TO STA. 1+34.02

CROSS SLOPE

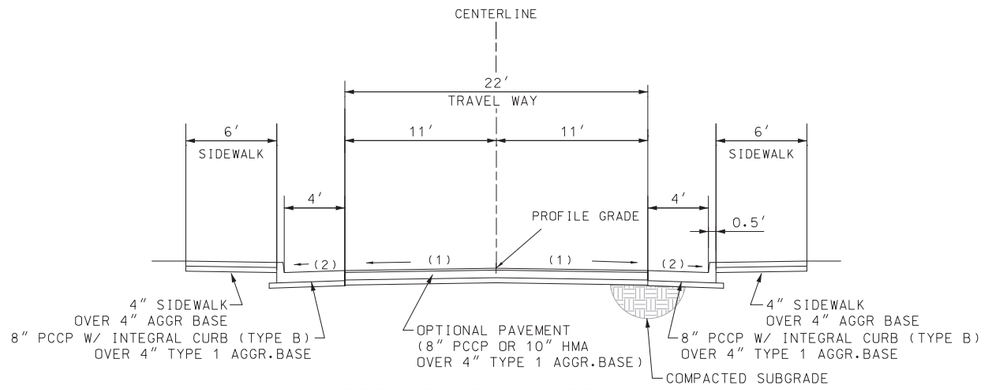
(1) 2.0%
(2) 2.0% FOR PAVED SHOULDERS
(3) SEE CROSS SECTIONS FOR SLOPE

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.

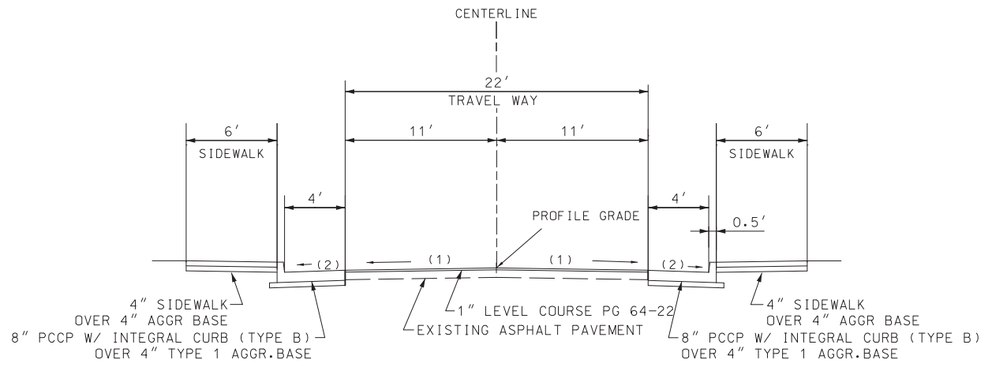
SEE STANDARD 608.10 FOR SIDEWALK DETAILS

✳ - SEE PLAN SHEETS FOR PARKING AREA WIDTHS AND LOCATIONS

OPTIONAL PAVEMENT
ASPHALT PAVEMENT:
1.50″ BP1 PG 64-22 OVER
8.5″ BITUMINOUS BASE PG 64-22 OVER
4″ TYPE 1 AGGREGATE BASE
PCC PAVEMENT:
8″ NONREINFORCED 15′ JOINTS OVER
4″ TYPE 1 AGGREGATE BASE
(AGGREGATE BASE CAN BE OMITTED
IF PAVEMENT THICKNESS IS INCREASED 2″.)




## SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE. D
STA. 1+34.02 TO STA. 1+75.00




## SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE. D
STA. 1+75.00 TO STA. 3+25.00

| ASPHALT FACTORS | |
|---|---|
| COMBINED FACTOR | |
| PG64-22 (BP-1) | 1.934 TONS/CY |
| TACK (NEW ASPHALT SURFACE) | 0.05 GAL/SY |
| TACK (EXIST. ASPHALT PVMN'T.) | 0.08 GAL/SY |
| TACK (MILLED SURFACE) | 0.10 GAL/SY |

NOT TO SCALE

TYPICAL SECTIONS

SHEET 2 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/13/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 2
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

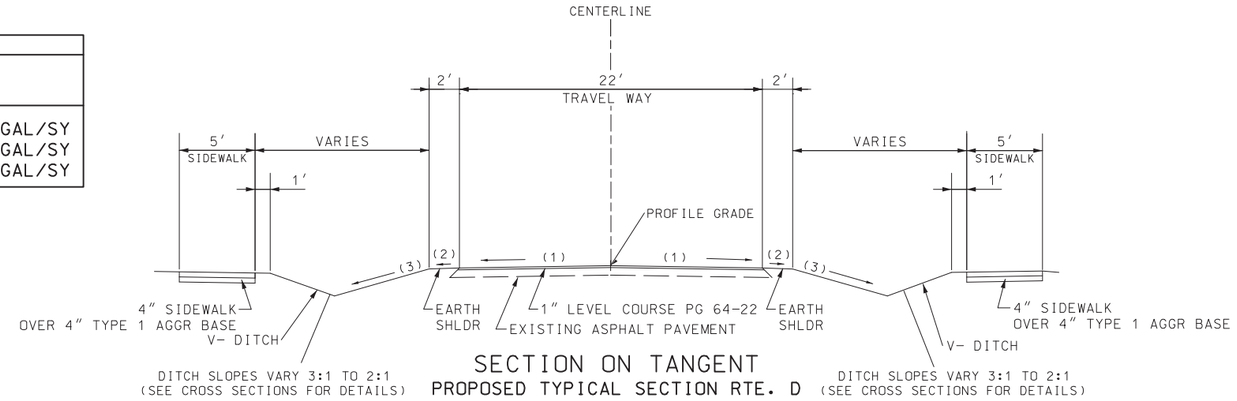
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

| ASPHALT FACTORS | |
|---|---|
| COMBINED FACTOR | |
| PG64-22 (BP-1) | 1.934 TONS/CY |
| TACK (NEW ASPHALT SURFACE) | 0.05 GAL/SY |
| TACK (EXIST. ASPHALT PVMN'T.) | 0.08 GAL/SY |
| TACK (MILLED SURFACE) | 0.10 GAL/SY |




## SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE. D
STA. 3+25.00 TO STA. 10+05.00

CROSS SLOPE

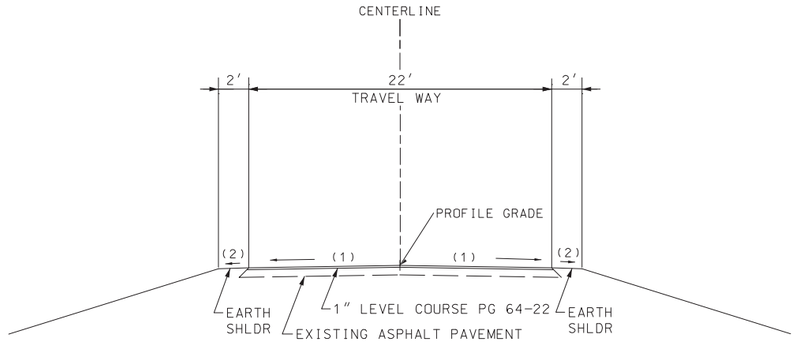
(1) 2.0%
(2) 2.0% FOR SHOULDERS
(3) 3.5%

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.

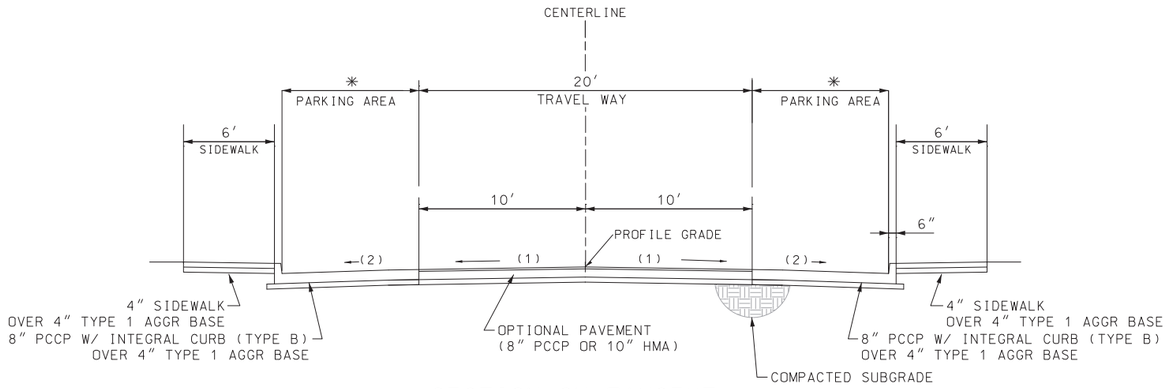
SEE STANDARD 608.10 FOR SIDEWALK DETAILS

✳ SEE PLANS FOR PARKING AREA WIDTHS AND LOCATIONS.

OPTIONAL PAVEMENT
ASPHALT PAVEMENT:
1.50″ BP1 PG 64-22 OVER
8.5″ BITUMINOUS BASE PG 64-22 OVER
4″ TYPE 1 AGGREGATE BASE
PCC PAVEMENT:
8″ NONREINFORCED 15′ JOINTS OVER
4″ TYPE 1 AGGREGATE BASE
✳ AGGREGATE BASE CAN BE OMITTED IF PAVEMENT THICKNESS IS INCREASED 2″.




## SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE. D
STA. 10+05.00 TO STA. 12+00.00
(A3 SHOULDER VARIES FROM STA. 11+00.00 TO 12+00.00 FROM 2′ TO 0′)




## SECTION ON TANGENT
PROPOSED TYPICAL SECTION RTE. FF
STA. 0+40.28 TO STA. 3+15.00

NOT TO SCALE

TYPICAL SECTIONS

SHEET 3 OF 4

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/13/2019
ROUTE: D/FF | STATE: MO
DISTRICT: NW | SHEET NO.: 2
COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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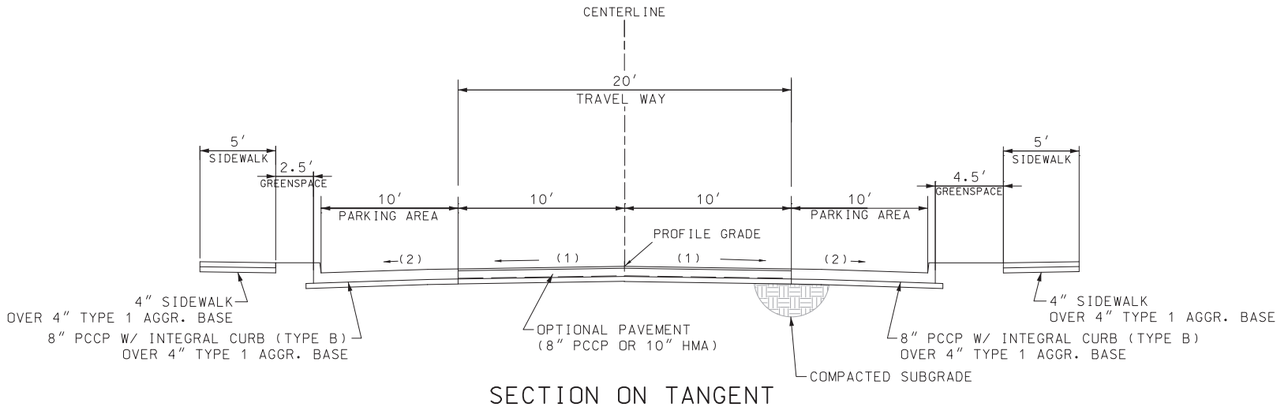



SECTION ON TANGENT

PROPOSED TYPICAL SECTION RTE. FF
STA. 3+15.00 TO STA. 4+95.00

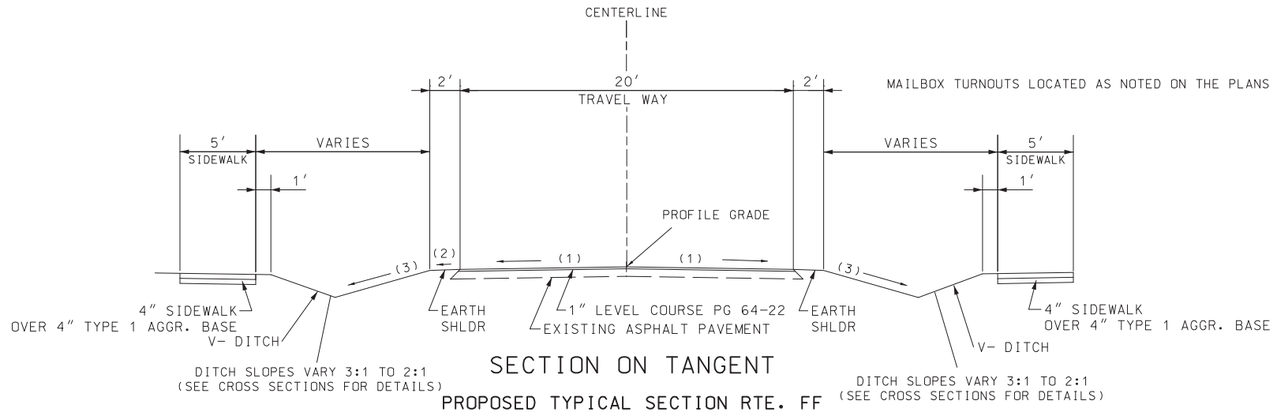
OPTIONAL PAVEMENT
ASPHALT PAVEMENT:
1.50″ BP1 PG 64-22 OVER
8.5″ BITUMINOUS BASE PG 64-22 OVER
4″ TYPE 1 AGGREGATE BASE
PCC PAVEMENT:
8″ NONREINFORCED 15′ JOINTS OVER
4″ TYPE 1 AGGREGATE BASE
AGGREGATE BASE CAN BE OMITTED
IF PAVEMENT THICKNESS IS INCREASED 2″.

CROSS SLOPE

(1) 2.0%
(2) 2.0% FOR PAVED SHOULDERS
(3) 3.5%
(4) 3.2%

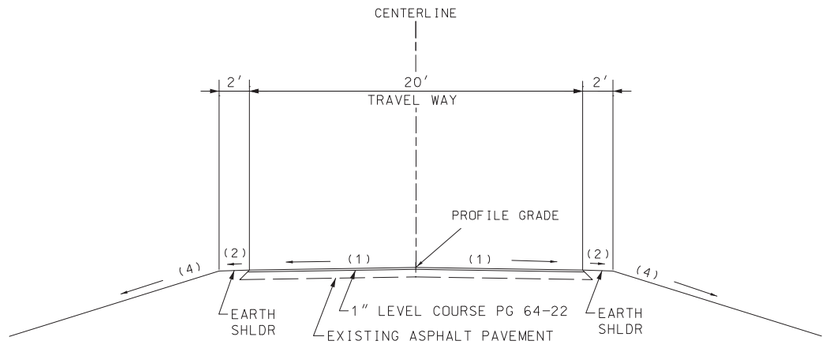
SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.

SEE STANDARD 608.10 FOR SIDEWALK DETAILS




SECTION ON TANGENT

PROPOSED TYPICAL SECTION RTE. FF
STA. 4+95.00 TO STA. 22+20.00 (RT) & STA. 23+74.00 (LT)




SECTION ON TANGENT

PROPOSED TYPICAL SECTION RTE. FF
STA. 22+20.00 (RT) & STA. 23+74.00 (LT) TO STA. 25+00.00

| ASPHALT FACTORS | |
|---|---|
| COMBINED FACTOR | |
| PG64-22 (BP-1) | 1.934 TONS/CY |
| TACK (NEW ASPHALT SURFACE) | 0.05 GAL/SY |
| TACK (EXIST. ASPHALT PVMN'T.) | 0.08 GAL/SY |
| TACK (MILLED SURFACE) | 0.10 GAL/SY |

NOT TO SCALE

TYPICAL SECTIONS

SHEET 4 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/13/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 2
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## MODIFIED COLDMILLING (DEPTH TRANSISTIONS)

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | MODIFIED COLD MILLING SQ. YARDS | REMARKS |
|---|---|---|---|---|---|---|---|
| D | 11+50.00 | 12+00.00 | LT | 50.00 | 10.5 | 58.0 | 50 FOOT DEPTH TRANSITION |
| D | 11+50.00 | 12+00.00 | RT | 50.00 | 10.5 | 58.0 | 50 FOOT DEPTH TRANSITION |
| FF | 24+50.00 | 25+00.00 | LT | 50.00 | 10.5 | 58.0 | 50 FOOT DEPTH TRANSITION |
| FF | 24+50.00 | 25+00.00 | RT | 50.00 | 10.5 | 58.0 | 50 FOOT DEPTH TRANSITION |
| | | TOTAL | | | | 232.0 | |

## EARTHWORK

| ROUTE | STA. | STA. | CLASS A EXCAVATION CUBIC YARDS | COMPACTING EMBANKMENT CUBIC YARDS | REMARKS |
|---|---|---|---|---|---|
| D | 0+45.90 | 1+75.00 | 207 | 4 | EXCESS MATERIAL TO BE DISPOSE OFF MODOT R/W |
| D | 1+75.00 | 12+00.00 | 565 | 157 | EXCESS MATERIAL TO BE DISPOSE OFF MODOT R/W |
| FF | 0+40.28 | 4+95.00 | 1,055 | 16 | EXCESS MATERIAL TO BE DISPOSE OFF MODOT R/W |
| FF | 4+95.00 | 25+00.00 | 1,137 | 228 | EXCESS MATERIAL TO BE DISPOSE OFF MODOT R/W |
| | | TOTALS | 2,964 | 405 | |

## REMOVAL OF IMPROVEMENTS

| RTE. | STA. | STA. | LOCATION | DESCRIPTION | AMOUNT | UNIT | REMARKS |
|---|---|---|---|---|---|---|---|
| D | 0+45.90 | 1+75.00 | CENTER | ROADWAY PAVEMENT | 313.2 | SY | EXISTING ROUTE D ASPHALT PAVEMENT |
| D | 0+45.90 | 1+34.00 | LEFT | CONCRETE | 158.3 | SY | CITY HALL PARKING LOT (THICKNESS UNKNOWN) |
| D | 1+40.00 | 1+56.20 | LEFT | SIDEWALK PAVEMENT | 5.7 | SY | BEGIN SIDEWALK TO ALLEY |
| D | 1+71.30 | 2+27.00 | LEFT | SIDEWALK PAVEMENT | 22.2 | SY | BETWEEN ALLEY AND UNION STREET |
| D | 1+75.00 | 2+46.20 | RIGHT | SIDEWALK PAVEMENT | 30.0 | SY | BETWEEN ALLEY AND UNION STREET |
| D | 2+50.00 | 2+97.30 | RIGHT | SIDEWALK PAVEMENT | 17.0 | SY | BETWEEN ALLEY AND UNION STREET |
| D | 2+52.00 | 2+76.00 | LEFT | CONCRETE & RAILROAD TIES | 24.0 | LIN.FT. | MISC. CONCRETE & RAILROAD TIES ON R/W |
| D | 2+78.00 | 3+01.00 | RIGHT | 12" CULVERT PIPE | 23.0 | LIN.FT. | CULVERT IN FRONT OF HOUSE |
| D | 3+02.00 | 3+40.00 | RIGHT | 15" CULVERT PIPE | 38.0 | LIN.FT. | CULVERT UNDER UNION STREET |
| D | 3+05.00 | 3+35.00 | LEFT | 15" CULVERT PIPE | 30.0 | LIN.FT. | CULVERT UNDER UNION STREET |
| D | 3+40.00 | | RIGHT | 15" CULVERT PIPE | 4.0 | LIN.FT. | UNDER SIDEWALK |
| D | 3+30.00 | 4+72.00 | LEFT | SIDEWALK PAVEMENT | 55.7 | SY | BETWEEN UNION AND WALNUT STREETS |
| D | 3+30.00 | 4+72.00 | RIGHT | SIDEWALK PAVEMENT | 121.2 | SY | BETWEEN UNION AND WALNUT STREETS |
| D | 4+66.00 | 4+93.00 | LEFT | 15" CULVERT PIPE | 27.0 | LIN.FT. | CULVERT UNDER ENTRANCE |
| D | 4+72.00 | 4+90.00 | RIGHT | 15" CULVERT PIPE | 18.0 | LIN.FT. | CULVERT UNDER ENTRANCE |
| D | 4+85.00 | 6+19.00 | LEFT | SIDEWALK PAVEMENT | 54.2 | SY | BETWEEN ALLEY AND WALNUT STREET |
| D | 6+12.00 | | CENTER | 18" CULVERT PIPE | 36.0 | LIN.FT. | CULVERT UNDER ROUTE D |
| D | 6+12.00 | | LEFT | 18" CULVERT PIPE | 5.0 | LIN.FT. | CULVERT UNDER SIDEWALK |
| D | 6+14.00 | 6+42.00 | LEFT | 12" CULVERT PIPE | 28.0 | LIN.FT. | CULVERT UNDER WALNUT STREET |
| D | 6+32.00 | 7+15.00 | LEFT | SIDEWALK PAVEMENT | 31.7 | SY | BETWEEN WALNUT STREET AND PRIVATE ENTRANCE |
| D | 6+40.00 | 7+69.00 | RIGHT | SIDEWALK PAVEMENT | 51.6 | SY | BETWEEN WALNUT STREET AND PRIVATE ENTRANCE |
| D | 7+12.00 | 7+28.00 | LEFT | 12" CULVERT PIPE | 16.0 | LIN.FT. | CULVERT UNDER ENTRANCE |
| D | 7+25.00 | 9+73.00 | LEFT | SIDEWALK PAVEMENT | 91.9 | SY | BETWEEN PRIVATE ENTRANCE & MURRAY STREET |
| D | 7+65.00 | 7+84.00 | RIGHT | 12" CULVERT PIPE | 19.0 | LIN.FT. | CULVERT UNDER ENTRANCE |
| D | 7+83.00 | 9+67.00 | RIGHT | SIDEWALK PAVEMENT | 68.5 | SY | BETWEEN PRIVATE ENTRANCE & MURRAY STREET |
| D | 9+80.00 | 10+02.00 | LEFT | SIDEWALK PAVEMENT | 1.7 | SY | NORTH OF MURRAY STREET |
| FF | 0+40.28 | 4+75 | CENTER | ROUTE FF ASPHALT PAVEMENT | 1389.2 | SY | EXISTING ROUTE FF ASPHALT PAVEMENT |
| FF | 0+40.28 | 2+97.35 | RIGHT | SIDEWALK PAVEMENT | 171.3 | SY | FROM ROUTE 6 TO SOUTH SIDE OF LION'S CLUB BUILDING |
| FF | 0+40.28 | 2+92.28 | LEFT | SIDEWALK PAVEMENT | 113.2 | SY | FROM ROUTE 6 TO SOUTH STREET |
| FF | 2+02.79 | | RIGHT | CONCRETE ENTRANCE | 6.4 | SY | |
| FF | 1+47.71 | 2+97.35 | RIGHT | CURB & GUTTER | 122.6 | LIN.FT. | |
| FF | 3+24.32 | 5+77.45 | RIGHT | SIDEWALK PAVEMENT | 104.3 | SY | BETWEEN SOUTH AND MCKINLEY STREET |
| FF | 3+29.49 | 8+45.08 | LEFT | SIDEWALK PAVEMENT | 236.1 | SY | SOUTH STREET TO ENT. ACROSS FROM WILHITE ST. |
| FF | 6+14.52 | 8+65.82 | RIGHT | SIDEWALK PAVEMENT | 97.4 | SY | BETWEEN MCKINLEY AND WILHITE STREETS |
| FF | 8+96.77 | 11+61.43 | RIGHT | SIDEWALK PAVEMENT | 118.7 | SY | BETWEEN WILHITE STREET AND PRIVATE ENTRANCE |
| FF | 9+40.65 | 14+48.56 | LEFT | SIDEWALK PAVEMENT | 219.4 | SY | BETWEEN PRIVATE ENTRANCE AND BAILEY STREET |
| FF | 11+51.04 | 11+88.59 | RIGHT | 12" CULVERT PIPE | 37.6 | LIN.FT. | CULVERT UNDER ENTRANCE |
| FF | 11+78.15 | 14+14.46 | RIGHT | SIDEWALK PAVEMENT | 98.9 | SY | BETWEEN PRIVATE ENTRANCES |
| FF | 14+09.72 | 14+43.93 | RIGHT | 12" CULVERT PIPE | 34.2 | LIN.FT. | CULVERT UNDER ENTRANCE |
| FF | 14+41.70 | 16+19.21 | RIGHT | SIDEWALK PAVEMENT | 76.2 | SY | BETWEEN PRIVATE ENTRANCES |
| FF | 14+79.30 | 17+35.86 | LEFT | SIDEWALK PAVEMENT | 110.7 | SY | BETWEEN PRIVATE ENTRANCE AND GREEN STREET |
| FF | 15+11.44 | | CENTER | 12" CULVERT PIPE | 32.1 | LIN.FT. | CULVERT UNDER ROUTE FF |
| FF | 15+11.44 | | RIGHT | 12" CULVERT PIPE | 13.9 | LIN.FT. | CULVERT UNDER SIDEWALK |
| FF | 16+35.51 | 18+19.45 | RIGHT | SIDEWALK PAVEMENT | 82.2 | SY | BETWEEN PRIVATE ENTRANCES |
| FF | 17+11.59 | 17+32.97 | RIGHT | 12" CULVERT PIPE | 21.4 | LIN.FT. | CULVERT UNDER SIDEWALK |
| FF | 17+23.24 | 17+32.15 | LEFT | 12" CULVERT PIPE | 8.9 | LIN.FT. | CULVERT UNDER SIDEWALK |
| FF | 17+36.64 | 17+74.53 | LEFT | 12" CULVERT PIPE | 37.9 | LIN.FT. | CULVERT UNDER GREEN STREET |
| FF | 17+65.23 | 20+20.99 | LEFT | SIDEWALK PAVEMENT | 107.2 | SY | BETWEEN GREEN AND SYNDER STREETS |
| FF | 18+15.27 | 18+47.49 | LEFT | 12" CULVERT PIPE | 32.2 | LIN.FT. | CULVERT UNDER GREEN STREET |
| FF | 18+41.18 | 20+19.95 | RIGHT | SIDEWALK PAVEMENT | 74.3 | SY | BETWEEN PRIVATE ENTRANCES |
| FF | 20+33.05 | 22+04.65 | RIGHT | SIDEWALK PAVEMENT | 70.8 | SY | BETWEEN PRIVATE ENTRANCES |
| FF | 20+50.59 | 23+08.38 | LEFT | SIDEWALK PAVEMENT | 113.3 | SY | BETWEEN SYNDER STREET AND PRIVATE ENTRANCE |
| FF | 22+04.65 | 22+32.69 | RIGHT | 12" CULVERT PIPE | 28.0 | LIN.FT. | CULVERT UNDER ENTRANCE |
| FF | 22+32.69 | 25+48.59 | RIGHT | SIDEWALK PAVEMENT | 131.2 | SY | BETWEEN PRIVATE ENTRANCE AND END OF PROJECT |
| FF | 22+98.40 | | LEFT | 12" CULVERT PIPE | 13.3 | LIN.FT. | CULVERT UNDER SIDEWALK |
| FF | 23+00.00 | 23+30.37 | LEFT | 12" CULVERT PIPE | 30.4 | LIN.FT. | CULVERT UNDER PRIVATE ENTRANCE |
| FF | 23+32.24 | | LEFT | 12" CULVERT PIPE | 12.3 | LIN.FT. | CULVERT UNDER SIDEWALK |
| FF | 23+28.32 | 24+10.96 | LEFT | SIDEWALK PAVEMENT | 34.6 | SY | BETWEEN PRIVATE ENTRANCE AND END OF PROJECT |
| | | | | TOTAL | 1 | | LUMP SUM |

## TREE REMOVAL

| RTE. | STA. | LOCATION | DESCRIPTION | QUANTITY | UNIT | REMARKS |
|---|---|---|---|---|---|---|
| D | 2+26.50 | 32.2' LEFT | TREE | 1 | EACH | |
| D | 2+37.35 | 22.9' LEFT | TREE | 1 | EACH | |
| D | 2+48.17 | 23.06' RIGHT | TREE | 1 | EACH | |
| D | 2+55.21 | 28.55' LEFT | TREE | 1 | EACH | |
| D | 2+61.72 | 28.45' LEFT | TREE | 1 | EACH | |
| D | 2+79.71 | 18.56' RIGHT | TREE | 1 | EACH | |
| D | 5+57.52 | 22.98 RIGHT | TREE | 1 | EACH | |
| D | 5+84.71 | 22.54' RIGHT | TREE | 1 | EACH | |
| D | 5+99.70 | 22.55' RIGHT | TREE | 1 | EACH | |
| D | 6+51.52 | 23.99' RIGHT | TREE | 1 | EACH | |
| FF | 2+32.09 | 22.47' LEFT | TREE | 1 | EACH | |
| FF | 2+83.63 | 21.9' LEFT | TREE | 1 | EACH | |
| FF | 4+45.15 | 20.06' LEFT | TREE | 1 | EACH | |
| FF | 5+28.95 | 20.62' LEFT | TREE | 1 | EACH | |
| FF | 5+40.55 | 20.78' LEFT | TREE | 1 | EACH | |
| FF | 5+57.43 | 21.49' LEFT | TREE | 1 | EACH | |
| FF | 5+79.23 | 21.12' LEFT | TREE | 1 | EACH | |
| FF | 6+44.56 | 20.98' LEFT | TREE | 1 | EACH | |
| FF | 8+32.45 | 24.24' RIGHT | TREE | 1 | EACH | |
| FF | 8+32.64 | 29.44' LEFT | TREE | 1 | EACH | |
| FF | 8+40.51 | 28.49' LEFT | TREE | 1 | EACH | |
| FF | 8+45.08 | 28.22' LEFT | TREE | 1 | EACH | |
| FF | 8+58.86 | 23.71' RIGHT | TREE | 1 | EACH | |
| FF | 11+82.49 | 18.88' LEFT | TREE | 1 | EACH | |
| FF | 12+07.65 | 19.12' LEFT | TREE | 1 | EACH | |
| FF | 12+40.33 | 18.28' LEFT | TREE | 1 | EACH | |
| FF | 12+86.88 | 17.94' LEFT | TREE | 1 | EACH | |
| FF | 13+70.03 | 20.75' LEFT | TREE | 1 | EACH | |
| FF | 13+92.51 | 20.49' LEFT | TREE | 1 | EACH | |
| FF | 14+01.71 | 19.9' LEFT | TREE | 1 | EACH | |
| FF | 14+11.22 | 20.38' LEFT | TREE | 1 | EACH | |
| FF | 16+60.50 | 20.54' LEFT | TREE | 1 | EACH | |
| FF | 16+92.53 | 21.63' LEFT | TREE | 1 | EACH | |
| FF | 17+14.80 | 21.31' LEFT | TREE | 1 | EACH | |
| FF | 17+72.24 | 20.66' LEFT | TREE | 1 | EACH | |
| | | | TOTAL | 35 | EACH | |

| CONTRACTOR FURNISHED SURVEYING AND STAKING |
|---|
| TOTAL = 1 LUMP SUM |

| MOBILIZATION |
|---|
| TOTAL = 1 LUMP SUM |

SUMMARY OF QUANTITIES
SHEET 1 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/9/2019
ROUTE: D/FF | STATE: MO
DISTRICT: NW | SHEET NO.: 3
COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## CONCRETE CURB RAMP

| ROUTE | STA. | STA. | LOCATION | CONCRETE CURB RAMP | TYPE 1 AGGR. BASE 4 IN. THICK | REMARKS |
|---|---|---|---|---|---|---|
| | | | | SY | SY | |
| D | 1+34.05 | 1+54.37 | LT | 18.9 | 18.9 | SOUTHWEST CORNER OF ALLEY |
| D | 1+70.83 | 1+82.93 | LT | 4.9 | 4.9 | NORTHWEST CORNER OF ALLEY |
| D | 1+42.74 | 1+54.63 | RT | 6.6 | 6.6 | SOUTHEAST CORNER OF ALLEY |
| D | 1+71.10 | 1+82.77 | RT | 6.5 | 6.5 | NORTHEAST CORNER OF ALLEY |
| D | 3+06.30 | 3+14.68 | LT | 3.8 | 3.8 | SOUTHWEST CORNER OF UNION STREET |
| D | 3+34.65 | 3+42.72 | LT | 3.4 | 3.4 | NORTHWEST CORNER OF UNION STREET |
| D | 3+06.20 | 3+14.20 | RT | 3.4 | 3.4 | SOUTHEAST CORNER OF UNION STREET |
| D | 3+34.20 | 3+42.33 | RT | 4.4 | 4.4 | NORTHEAST CORNER OF UNION STREET |
| D | 6+05.80 | 6+18.26 | LT | 5.8 | 5.8 | SOUTHWEST CORNER OF WALNUT STREET |
| D | 3+65.30 | 6+43.90 | LT | 3.7 | 3.7 | NORTHWEST CORNER OF WALNUT STREET |
| D | 6+11.50 | 6+20.00 | RT | 3.4 | 3.4 | SOUTHEAST CORNER OF WALNUT STREET |
| D | 6+36.70 | 6+44.70 | RT | 3.4 | 3.4 | NORTHEAST CORNER OF WALNUT STREET |
| D | 9+65.10 | 9+73.20 | RT | 3.4 | 3.4 | SOUTHEAST CORNER OF MURRAY STREET |
| D | 9+93.40 | 10+04.60 | RT | 5.2 | 5.2 | NORTHEAST CORNER OF MURRAY STREET |
| FF | 1+34.10 | 1+48.20 | LT | 6.4 | 6.4 | NORTHEAST CORNER OF ALLEY |
| FF | 1+64.60 | 1+78.80 | LT | 6.4 | 6.4 | SOUTHEAST CORNER OF ALLEY |
| FF | 1+86.70 | 1+97.60 | RT | 6.8 | 6.8 | NORTHWEST CORNER OF DRIVEWAY |
| FF | 2+07.40 | 2+18.00 | RT | 6.8 | 6.8 | SOUTHWEST CORNER OF DRIVEWAY |
| FF | 2+93.40 | 3+04.10 | LT | 5.1 | 5.1 | NORTHEAST CORNER OF SOUTH STREET |
| FF | 2+93.15 | 3+06.70 | RT | 3.9 | 3.9 | NORHTWEST CORNER OF SOUTH STREET |
| FF | 3+24.40 | 3+35.20 | LT | 5.2 | 5.2 | SOUTHEAST CORNER OF SOUTH STREET |
| FF | 3+20.70 | 3+30.10 | RT | 4.9 | 4.9 | SOUTHWEST CORNER OF SOUTH STREET |
| FF | 5+81.92 | 5+90.10 | RT | 3.4 | 3.4 | NORHTWEST CORNER OF MCKINLEY STREET |
| FF | 6+05.00 | 6+13.00 | RT | 3.4 | 3.4 | SOUTHWEST CORNER OF MCKINLEY STREET |
| FF | 8+61.20 | 8+69.10 | RT | 3.4 | 3.4 | NORTHWEST CORNER OF WILHITE STREET |
| FF | 8+89.20 | 8+97.20 | RT | 3.4 | 3.4 | SOUTHWEST CORNER OF WILHITE STREET |
| FF | 14+50.00 | 14+57.40 | LT | 3.4 | 3.4 | NORTHEAST CORNER OF BAILEY STREET |
| FF | 14+73.60 | 14+81.70 | LT | 3.4 | 3.4 | SOUTHEAST CORNER OF BAILEY STREET |
| FF | 17+33.30 | 17+41.30 | LT | 3.4 | 3.4 | NORTHEAST CORNER OF GREEN STREET |
| FF | 17+61.40 | 17+70.00 | LT | 3.4 | 3.4 | SOUTHEAST CORNER OF GREEN STREET |
| FF | 20+20.00 | 20+28.00 | LT | 3.4 | 3.4 | NORTHEAST CORNER OF SNYDER STREET |
| FF | 20+48.00 | 20+56.00 | LT | 3.4 | 3.4 | SOUTHEAST CORNER OF SNYDER STREET |
| | | TOTALS | | 156.3 | 156.3 | |
| | | PAY TOTALS | | 156.3 | 156.0 | |

## TRUNCATED DOMES

| ROUTE | STA. | LOCATION | SQ FT | REMARKS |
|---|---|---|---|---|
| D | 1+52.00 | LT | 15.5 | WEST SIDE OF ALLEY |
| D | 1+75.00 | LT | 15.5 | WEST SIDE OF ALLEY |
| D | 1+52.00 | RT | 14.9 | EAST SIDE OF ALLEY |
| D | 1+73.00 | RT | 14.9 | EAST SIDE OF ALLEY |
| D | 3+14.00 | LT | 9.6 | WEST SIDE OF UNION STREET |
| D | 3+37.00 | LT | 9.6 | WEST SIDE OF UNION STREET |
| D | 3+12.00 | RT | 9.6 | EAST SIDE OF UNION STREET |
| D | 3+34.00 | RT | 9.6 | EAST SIDE OF UNION STREET |
| D | 6+18.00 | LT | 9.6 | WEST SIDE OF WALNUT STREET |
| D | 6+38.00 | LT | 9.6 | WEST SIDE OF WALNUT STREET |
| D | 6+18.00 | RT | 9.6 | EAST SIDE OF WALNUT STREET |
| D | 6+37.00 | RT | 9.6 | EAST SIDE OF WALNUT STREET |
| D | 9+71.00 | RT | 9.6 | EAST SIDE OF MURRAY STREET |
| D | 9+93.00 | RT | 9.6 | EAST SIDE OF MURRAY STREET |
| FF | 1+46.00 | LT | 13.9 | EAST SIDE OF ALLEY |
| FF | 1+69.00 | LT | 13.9 | EAST SIDE OF ALLEY |
| FF | 2+97.00 | RT | 9.6 | WEST SIDE OF SOUTH STREET |
| FF | 3+01.00 | LT | 9.6 | EAST SIDE OF SOUTH STREET |
| FF | 3+23.00 | RT | 9.6 | WEST SIDE OF SOUTH STREET |
| FF | 3+29.00 | LT | 9.6 | EAST SIDE OF SOUTH STREET |
| FF | 5+88.00 | RT | 9.6 | WEST SIDE OF MCKINLEY STREET |
| FF | 6+05.00 | RT | 9.6 | WEST SIDE OF MCKINLEY STREET |
| FF | 8+67.00 | RT | 9.6 | WEST SIDE OF WHITE STREET |
| FF | 8+89.00 | RT | 9.6 | WEST SIDE OF WHITE STREET |
| FF | 14+57.00 | LT | 9.6 | EAST SIDE OF BAILEY STREET |
| FF | 14+75.00 | LT | 9.6 | EAST SIDE OF BAILEY STREET |
| FF | 17+41.00 | LT | 9.6 | EAST SIDE OF SYNDER STREET |
| FF | 17+63.00 | LT | 9.6 | EAST SIDE OF SYNDER STREET |
| FF | 20+28.00 | LT | 9.6 | EAST SIDE OF GREEN STREET |
| FF | 20+50.00 | LT | 9.6 | EAST SIDE OF GREEN STREET |
| | TOTAL | | 319.0 | |
| | PAY TOTAL | | 319 | |

## BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BP-1)

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | THICKNESS | BP-1 PG 64-22 TONS | REMARKS |
|---|---|---|---|---|---|---|---|---|
| D | 1+75.00 | 3+25.00 | LT | 150.00 | 11 | 0.0833 | 9.9 | |
| D | 1+75.00 | 3+25.00 | RT | 150.00 | 11 | 0.0833 | 9.9 | |
| D | 3+25.00 | 10+05.00 | LT | 680.00 | 11 | 0.0833 | 45.0 | |
| D | 3+25.00 | 10+05.00 | RT | 680.00 | 11 | 0.0833 | 45.0 | |
| D | 10+05.00 | 12+00.00 | LT | 195.00 | 11 | 0.0833 | 12.9 | |
| D | 10+05.00 | 12+00.00 | RT | 195.00 | 11 | 0.0833 | 12.9 | |
| FF | 4+95.00 | 23+74.00 | LT | 1,879.00 | 10 | 0.0833 | 112.9 | |
| FF | 4+95.00 | 22+20.00 | RT | 1,725.00 | 10 | 0.0833 | 103.7 | |
| FF | 23+74.00 | 25+00.00 | LT | 126.00 | 10 | 0.0833 | 7.6 | |
| FF | 22+20.00 | 25+00.00 | RT | 280.00 | 10 | 0.0833 | 16.8 | |
| | | | | | | TOTAL | 376.6 | |
| | | | | | | 25% | 94.2 | FOR CROWN CORRECTION |
| | | | | | | PAY TOTAL | 470.8 | |

## TACK

| ROUTE | STA. | STA. | DISTANCE | WIDTH | TACK GALLONS | REMARKS |
|---|---|---|---|---|---|---|
| D | 1+75.00 | 11+50.00 | 975.00 | 22 | 190.7 | APPLY @ 0.08 GAL/SQ. YARD |
| D | 11+50.00 | 12+00.00 | 50.00 | 22 | 12.2 | APPLY @ 0.10 GAL/SQ. YARD |
| FF | 4+95.00 | 24+50.00 | 1,955.00 | 22 | 382.3 | APPLY @ 0.08 GAL/SQ. YARD |
| FF | 24+50.00 | 25+00.00 | 50.00 | 22 | 12.2 | APPLY @ 0.10 GAL/SQ. YARD |
| | | TOTAL | | | 597.4 | |
| | | PAY TOTAL | | | 600.0 | |

## CONCRETE CURB (6 IN. HEIGHT) TYPE S

| ROUTE | STA. | STA. | LOCATION | TYPE S CURB | REMARKS |
|---|---|---|---|---|---|
| | | | | LF | |
| FF | 0+40.28 | 1+48.54 | LT | 249.1 | RTE 6 TO NORTH OF ALLEY |
| | | TOTAL | | 249.1 | |
| | | PAY TOTAL | | 249 | |

## OPTIONAL PAVEMENT

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | OPTIONAL PAVEMENT SQ. YARDS | TYPE 1 AGGR. BASE 4 IN. THICK SQ. YARDS | REMARKS |
|---|---|---|---|---|---|---|---|---|
| D | 0+45.90 | 1+75.00 | CENTER | 129.10 | 22.0 | 315.6 | 315.6 | |
| FF | 0+40.28 | 4+35.12 | CENTER | 394.84 | 20.0 | 877.4 | 877.4 | |
| FF | 4+35.12 | 4+85.00 | CENTER | 49.88 | 20.0 | 110.8 | 110.8 | |
| | | TOTALS | | | | 1303.8 | 1303.8 | |
| | | PAY TOTALS | | | | 1303.8 | 1304.0 | |

## LINEAR GRADING CLASS 2

| STA | STA | LOCATION | NET LENGTH (LINEAR FT) | LINEAR GRADING (STA) | REMARKS |
|---|---|---|---|---|---|
| 15+20.00 | | RIGHT | 150 | 1.5 | GRADING FOR OUTLET DITCH |
| | | | TOTAL | 1.5 | |

SUMMARY OF QUANTITIES
SHEET 2 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## SIDEWALK

| ROUTE | STA. | STA. | LOCATION | TYPE 1 AGGR. BASE 4 IN. THICK SY | CONCRETE SIDEWALK, 4 IN. THICK SY | REMARKS |
|---|---|---|---|---|---|---|
| D | 0+45.90 | 1+42.50 | RT | 55.1 | 55.1 | BEGIN RTE. D TO ALLEY |
| D | 1+83.20 | 2+06.70 | LT | 82.5 | 82.5 | BETWEEN ALLEY TO UNION STREET |
| D | 2+07.20 | 2+09.95 | LT | 2.8 | 2.8 | CONN TO EXISTING SIDEWALK |
| D | 1+82.50 | 3+05.84 | RT | 81.6 | 81.6 | BETWEEN ALLEY TO UNION STREET |
| D | 2+47.00 | 2+50.00 | RT | 4.0 | 4.0 | CONN TO EXISTING SIDEWALK |
| D | 3+43.11 | 4+73.55 | LT | 73.4 | 73.4 | BETWEEN UNION STREET TO ALLEY |
| D | 3+42.00 | 6+11.10 | RT | 149.6 | 149.6 | BETWEEN UNION STREET TO WALNUT STREET |
| D | 5+47.39 | 5+50.38 | RT | 2.7 | 2.7 | CONN TO EXISTING SIDEWALK |
| D | 4+93.45 | 6+06.17 | LT | 62.6 | 62.6 | BETWEEN ALLEY TO WALNUT STREET |
| D | 5+11.22 | 5+13.93 | LT | 0.9 | 0.9 | CONN TO EXISTING SIDEWALK |
| D | 5+72.74 | 5+75.51 | LT | 1.5 | 1.5 | CONN TO EXISTING SIDEWALK |
| D | 6+07.44 | 6+10.38 | LT | 1.6 | 1.6 | CONN TO EXISTING SIDEWALK |
| D | 6+44.23 | 7+14.87 | LT | 39.3 | 39.3 | BETWEEN WALNUT STREET TO ALLEY |
| D | 7+01.38 | 7+04.51 | LT | 1.0 | 1.0 | CONN TO EXISTING SIDEWALK |
| D | 6+44.17 | 7+69.24 | RT | 69.5 | 69.5 | BETWEEN WALNUT STREET TO ALLEY |
| D | 6+76.26 | 6+78.97 | RT | 0.9 | 0.9 | CONN TO EXISTING SIDEWALK |
| D | 7+35.24 | 7+37.82 | RT | 0.9 | 0.9 | CONN TO EXISTING SIDEWALK |
| D | 7+24.87 | 9+75.28 | LT | 139.1 | 139.1 | BETWEEN ALLEY TO MURRAY STREET |
| D | 7+81.24 | 9+64.74 | RT | 101.9 | 101.9 | BETWEEN ALLEY TO MURRAY STREET |
| D | 7+94.94 | 7+97.43 | RT | 0.8 | 0.8 | CONN TO EXISTING SIDEWALK |
| D | 8+76.66 | 8+78.27 | RT | 0.5 | 0.5 | CONN TO EXISTING SIDEWALK |
| D | 9+90.42 | 10+01.54 | LT | 9.0 | 9.0 | BETWEEN MURRAY STREET TO PROJECT END |
| D | 9+99.00 | 10+04.00 | RT | 2.8 | 2.8 | BETWEEN MURRAY STREET TO PROJECT END |
| FF | 0+40.00 | 1+34.10 | LT | 62.6 | 62.6 | BEGIN PROJ. TO ALLEY |
| FF | +40.00 | 1+86.60 | RT | 141.1 | 141.1 | BEGIN PROJ. TO DRIVEWAY |
| FF | 0+56.27 | 0+59.23 | RT | 1.3 | 1.3 | CONN TO EXISTING SIDEWALK |
| FF | 1+78.84 | 2+93.40 | LT | 77.4 | 77.4 | BETWEEN ALLEY TO SOUTH STREET |
| FF | 2+18.11 | 2+93.20 | RT | 51.8 | 51.8 | BETWEEN DRIVEWAY TO SOUTH STREET |
| FF | 2+63.70 | 2+65.80 | LT | 1.7 | 1.7 | CONN TO EXISTING SIDEWALK |
| FF | 2+36.92 | 2+39.80 | RT | 2.1 | 2.1 | CONN TO EXISTING SIDEWALK |
| FF | 2+89.43 | 2+93.20 | RT | 1.7 | 1.7 | CONN TO EXISTING SIDEWALK |
| FF | 3+35.14 | 4+95.10 | LT | 88.8 | 88.8 | BETWEEN SOUTH STREET TO DRIVEWAY |
| FF | 3+29.94 | 5+81.90 | RT | 140.0 | 140.0 | BETWEEN SOUTH STREET TO DRIVEWAY |
| FF | 3+63.42 | 3+67.50 | LT | 2.3 | 2.3 | CONN TO EXISTING SIDEWALK |
| FF | 5+15.03 | 6+90.40 | LT | 97.4 | 97.4 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 5+52.94 | 5+59.30 | LT | 2.8 | 2.8 | CONN TO EXISTING SIDEWALK |
| FF | 6+12.94 | 8+61.20 | RT | 137.9 | 137.9 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 6+14.65 | 6+22.40 | RT | 4.2 | 4.2 | CONN TO EXISTING SIDEWALK |
| FF | 6+61.13 | 6+64.10 | RT | 1.0 | 1.0 | CONN TO EXISTING SIDEWALK |
| FF | 7+10.40 | 8+45.18 | LT | 74.8 | 74.8 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 8+65.18 | 9+08.26 | LT | 24.0 | 24.0 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 8+97.04 | 11+61.91 | RT | 147.1 | 147.1 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 9+24.43 | 9+27.84 | RT | 1.1 | 1.1 | CONN TO EXISTING SIDEWALK |
| FF | 9+32.23 | 13+07.51 | LT | 208.5 | 208.5 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 9+50.32 | 9+56.15 | LT | 2.0 | 2.0 | CONN TO EXISTING SIDEWALK |
| FF | 10+48.76 | 10+52.20 | LT | 1.1 | 1.1 | CONN TO EXISTING SIDEWALK |
| FF | 12+86.80 | 12+91.18 | LT | 1.5 | 1.5 | CONN TO EXISTING SIDEWALK |
| FF | 11+21.02 | 11+24.75 | RT | 1.3 | 1.3 | CONN TO EXISTING SIDEWALK |
| FF | 12+73.94 | 14+17.80 | RT | 135.5 | 135.5 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 12+19.20 | 12+20.83 | RT | 0.5 | 0.5 | CONN TO EXISTING SIDEWALK |
| FF | 13+19.50 | 14+49.53 | LT | 72.2 | 72.2 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 14+00.60 | 14+04.40 | LT | 1.3 | 1.3 | CONN TO EXISTING SIDEWALK |
| FF | 14+42.42 | 14+45.04 | LT | 0.9 | 0.9 | CONN TO EXISTING SIDEWALK |
| FF | 14+37.77 | 16+20.30 | RT | 101.4 | 101.4 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 14+81.41 | 17+33.30 | LT | 139.9 | 139.9 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 16+25.00 | 16+27.80 | LT | 0.9 | 0.9 | CONN TO EXISTING SIDEWALK |
| FF | 16+32.30 | 18+16.25 | RT | 102.3 | 102.3 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 16+91.90 | 16+95.67 | RT | 1.3 | 1.3 | CONN TO EXISTING SIDEWALK |
| FF | 17+36.50 | 17+41.63 | RT | 3.9 | 3.9 | CONN TO EXISTING SIDEWALK |
| FF | 17+69.00 | 20+20.14 | LT | 139.3 | 139.3 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 18+37.20 | 20+21.50 | RT | 102.3 | 102.3 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 18+64.90 | 18+68.80 | RT | 1.3 | 1.3 | CONN TO EXISTING SIDEWALK |
| FF | 19+01.37 | 19+04.32 | RT | 1.0 | 1.0 | CONN TO EXISTING SIDEWALK |
| FF | 20+56.45 | 23+10.60 | LT | 141.2 | 141.2 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 20+86.00 | 20+89.80 | LT | 1.3 | 1.3 | CONN TO EXISTING SIDEWALK |
| FF | 20+31.53 | 22+12.50 | RT | 100.6 | 100.6 | BETWEEN DRIVEWAY TO DRIVEWAY |
| FF | 23+25.70 | 23+74.00 | LT | 26.9 | 26.9 | BETWEEN DRIVEWAY TO PROJ. END |
| FF | 23+69.15 | 23+79.97 | LT | 1.0 | 1.0 | CONN TO EXISTING SIDEWALK |
| | | TOTALS | | 3234.5 | 3234.5 | |
| | | PAY TOTALS | | 3235.0 | 3234.5 | |

## INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE B

| ROUTE | STA. | STA. | LOCATION | DISTANCE | 6 IN. INTEGRAL CURB LIN. FEET | REMARKS |
|---|---|---|---|---|---|---|
| D | 0+45.00 | 0+48.56 | RT | 103.52 | 103.5 | |
| D | 1+33.45 | 1+45.00 | LT | 29.63 | 29.6 | |
| D | 1+76.85 | 3+14.30 | LT | 142.23 | 142.2 | |
| D | 1+77.50 | 3+14.60 | RT | 141.17 | 141.2 | |
| FF | 0+40.28 | 1+42.24 | LT | 106.84 | 106.8 | |
| FF | 0+40.28 | 1+94.32 | RT | 154.19 | 154.2 | |
| FF | 1+71.00 | 2+94.41 | LT | 118.44 | 118.4 | |
| FF | 2+09.80 | 2+90.36 | RT | 80.56 | 80.6 | |
| FF | 3+30.35 | 4+35.12 | RT | 104.77 | 104.8 | |
| FF | 3+34.42 | 4+35.12 | LT | 100.70 | 100.7 | |
| FF | 4+35.12 | 4+85.10 | LT | 50.64 | 50.6 | |
| FF | 4+35.12 | 4+85.11 | RT | 50.64 | 50.6 | |
| | | TOTAL | | | 1183.2 | |
| | | PAY TOTAL | | | 1183.0 | |

## MAILBOX SUPPORTS AND INSTALLATION

| RTE. | STA. | LOCATION | QUANTITY | UNIT | REMARKS |
|---|---|---|---|---|---|
| D | 2+79.12 | 11' RIGHT | 1 | EACH | MOVE TO UNION STREET (SOUTH SIDE) |
| D | 3+47.64 | 12' LEFT | 1 | EACH | MOVE TO UNION STREET (SOUTH SIDE) |
| D | 3+50.15 | 12' LEFT | 1 | EACH | MOVE TO UNION STREET (SOUTH SIDE) |
| D | 3+51.29 | 12' LEFT | 1 | EACH | MOVE TO UNION STREET (SOUTH SIDE) |
| D | 3+53.04 | 12' LEFT | 1 | EACH | MOVE TO UNION STREET (SOUTH SIDE) |
| D | 3+56.03 | 12' LEFT | 1 | EACH | MOVE TO UNION STREET (SOUTH SIDE) |
| D | 3+57.91 | 12' LEFT | 1 | EACH | MOVE TO UNION STREET (SOUTH SIDE) |
| D | 3+59.55 | 12' LEFT | 1 | EACH | MOVE TO UNION STREET (SOUTH SIDE) |
| D | 6+01.71 | 12' LEFT | 1 | EACH | MOVE TO WALNUT STREET (SOUTH SIDE) |
| D | 6+03.29 | 12' LEFT | 1 | EACH | MOVE TO WALNUT STREET (SOUTH SIDE) |
| D | 6+04.55 | 12' LEFT | 1 | EACH | MOVE TO WALNUT STREET (SOUTH SIDE) |
| D | 6+05.81 | 12' LEFT | 1 | EACH | MOVE TO WALNUT STREET (SOUTH SIDE) |
| D | 7+16.98 | 12' LEFT | 1 | EACH | MOVE TO WALNUT STREET (SOUTH SIDE) |
| D | 7+18.00 | 12' LEFT | 1 | EACH | MOVE TO WALNUT STREET (SOUTH SIDE) |
| D | 7+21.36 | 12' LEFT | 1 | EACH | MOVE TO WALNUT STREET (SOUTH SIDE) |
| D | 10+09.24 | 12' LEFT | 1 | EACH | MOVE TO WALNUT STREET (SOUTH SIDE) |
| D | 10+09.89 | 12' LEFT | 1 | EACH | MOVE TO MURRAY STREET (SOUTH SIDE) |
| D | 10+11.64 | 12' LEFT | 1 | EACH | MOVE TO MURRAY STREET (SOUTH SIDE) |
| D | 10+13.42 | 12' LEFT | 1 | EACH | MOVE TO MURRAY STREET (SOUTH SIDE) |
| D | 10+15.44 | 12' LEFT | 1 | EACH | MOVE TO MURRAY STREET (SOUTH SIDE) |
| D | 10+17.00 | 12' LEFT | 1 | EACH | MOVE TO MURRAY STREET (SOUTH SIDE) |
| D | 10+18.62 | 12' LEFT | 1 | EACH | MOVE TO MURRAY STREET (SOUTH SIDE) |
| FF | 1+87.45 | 22' RIGHT | 1 | EACH | MOVE TO EDGE OF CURB |
| FF | 1+89.41 | 22' RIGHT | 1 | EACH | MOVE TO EDGE OF CURB |
| FF | 3+46.88 | 20' RIGHT | 1 | EACH | MOVE TO GREEN SPACE NEXT TO CURB |
| FF | 3+48.37 | 20' RIGHT | 1 | EACH | MOVE TO GREEN SPACE NEXT TO CURB |
| FF | 3+50.65 | 20' RIGHT | 1 | EACH | MOVE TO GREEN SPACE NEXT TO CURB |
| FF | 3+52.82 | 20' RIGHT | 1 | EACH | MOVE TO GREEN SPACE NEXT TO CURB |
| FF | 3+54.82 | 20' RIGHT | 1 | EACH | MOVE TO GREEN SPACE NEXT TO CURB |
| FF | 3+55.14 | 20' RIGHT | 1 | EACH | MOVE TO GREEN SPACE NEXT TO CURB |
| FF | 3+56.76 | 20' RIGHT | 1 | EACH | MOVE TO GREEN SPACE NEXT TO CURB |
| FF | 5+61.51 | 14' RIGHT | 1 | EACH | MOVE TO TURNOUT NEXT TO MCKINLEY STREET |
| FF | 5+63.77 | 14' RIGHT | 1 | EACH | MOVE TO TURNOUT NEXT TO MCKINLEY STREET |
| FF | 9+26.21 | 16' RIGHT | 1 | EACH | MOVE TO TURNOUT NEXT TO WILHITE STREET |
| FF | 9+27.34 | 16' RIGHT | 1 | EACH | MOVE TO TURNOUT NEXT TO WILHITE STREET |
| FF | 13+16.67 | 16' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 14+46.85 | 15' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 14+48.52 | 15' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 14+50.36 | 15' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 17+19.38 | 15' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 17+20.05 | 15' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 17+21.16 | 15' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 18+49.63 | 14' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 18+51.50 | 14' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 20+57.23 | 13' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| FF | 22+38.48 | 15' RIGHT | 1 | EACH | MOVE TO NEAREST MAILBOX TURNOUT |
| | | TOTAL | 46 | EACH | |

SUMMARY OF QUANTITIES
SHEET 3 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 3 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## SIDE STREETS

| ROUTE | STA. | LOCATION | TYPE 1 AGGREGATE FOR BASE (4 IN. THICK) | PAVED APPROACH, 8 IN. | GRAVEL A CR. STONE B 4" THICK | REMARKS |
|---|---|---|---|---|---|---|
| | | | SY | SY | SY | |
| D | 1+63.00 | LT | 43.6 | 43.6 | 2.6 | ALLEY-INCLUDES INTEGRAL CURB |
| D | 1+62.00 | RT | 41.2 | 41.2 | 3.3 | ALLEY-INCLUDES INTEGRAL CURB |
| D | 3+24.00 | RT | 61.0 | 61.0 | 5.9 | UNION STREET-INCLUDES INTEGRAL CURB |
| D | 3+25.00 | LT | 79.0 | 79.0 | 5.6 | UNION STREET-INCLUDES INTEGRAL CURB |
| D | 4+84.00 | LT | 57.3 | 57.3 | 6.7 | ALLEY-INCLUDES INTEGRAL CURB |
| D | 6+27.00 | LT | 64.9 | 64.9 | 9.5 | WALNUT STREET- INCLUDES INTEGRAL CURB |
| D | 6+27.00 | RT | 52.0 | 52.0 | 7.1 | WALNUT STREET- INCLUDES INTEGRAL CURB |
| D | 9+83.00 | LT | 44.2 | 44.2 | 5.0 | MURRAY STREET-INCLUDES INTEGRAL CURB |
| D | 9+83.00 | RT | 56.4 | 56.4 | 6.7 | MURRAY STREET-INCLUDES INTEGRAL CURB |
| FF | 1+56.00 | LT | 42.7 | 42.7 | 5.0 | ALLEY-INCLUDES INTEGRAL CURB |
| FF | 3+10.00 | RT | 30.3 | 30.3 | 6.4 | SOUTH STREET- INCLUDES INTEGRAL CURB |
| FF | 3+15.00 | LT | 51.7 | 51.7 | 24.7 | SOUTH STREET- INCLUDES INTEGRAL CURB |
| FF | 5+96.00 | RT | 46.4 | 46.4 | 13.0 | MCKINLEY STREET-INCLUDES INTEGRAL CURB |
| FF | 8+78.00 | RT | 58.3 | 58.3 | 6.6 | WHITE STREET-INCLUDES INTEGRAL CURB |
| FF | 14+66.00 | LT | 45.7 | 45.7 | 3.6 | BAILEY STREET-INCLUDES INTEGRAL CURB |
| FF | 17+50.00 | LT | 55.9 | 55.9 | 4.3 | SYNDER STREET-INCLUDES INTEGRAL CURB |
| FF | 20+40.00 | LT | 55.9 | 55.9 | 4.2 | GREEN STREET-INCLUDES INTEGRAL CURB |
| | | TOTALS | 886.5 | 886.5 | 120.2 | |
| | | PAY TOTALS | 887 | 886.5 | 120.0 | |

## PRIVATE APPROACHES

| ROUTE | STA. | LOCATION | TYPE 1 AGGREGATE FOR BASE (4 IN. THICK) | PAVED APPROACH, 7 IN. | GRAVEL A CR. STONE B 4" THICK | REMARKS |
|---|---|---|---|---|---|---|
| | | | SY | SY | SY | |
| D | 7+20.00 | LT | 25.5 | 25.5 | 0.0 | INCLUDES INTEGRAL CURB |
| D | 7+75.00 | RT | 35.8 | 35.8 | 2.7 | INCLUDES INTEGRAL CURB |
| FF | 2+02.00 | RT | 12.2 | 12.2 | 0.0 | INCLUDES INTEGRAL CURB |
| FF | 5+05.00 | LT | 58.1 | 58.1 | 4.4 | INCLUDES INTEGRAL CURB |
| FF | 7+00.00 | LT | 55.9 | 55.9 | 6.5 | INCLUDES INTEGRAL CURB |
| FF | 8+55.00 | LT | 51.4 | 51.4 | 6.4 | INCLUDES INTEGRAL CURB |
| FF | 9+20.00 | LT | 74.1 | 74.1 | 13.9 | INCLUDES INTEGRAL CURB |
| FF | 11+67.00 | RT | 38.1 | 38.1 | 2.6 | INCLUDES INTEGRAL CURB |
| FF | 13+13.00 | LT | 35.4 | 35.4 | 2.7 | INCLUDES INTEGRAL CURB |
| FF | 14+25.00 | RT | 60.3 | 60.3 | 6.7 | INCLUDES INTEGRAL CURB |
| FF | 16+25.00 | RT | 40.1 | 40.1 | 4.4 | INCLUDES INTEGRAL CURB |
| FF | 18+25.00 | RT | 58.4 | 58.4 | 4.7 | INCLUDES INTEGRAL CURB |
| FF | 20+27.00 | RT | 32.5 | 32.5 | 2.2 | INCLUDES INTEGRAL CURB |
| FF | 22+20.00 | RT | 51.4 | 51.4 | 8.6 | INCLUDES INTEGRAL CURB |
| FF | 22+20.00 | RT | | | 26.6 | AGGREGATE SURFACE FOR MAILBOX TURNOUT |
| FF | 23+18.00 | LT | 43.1 | 43.1 | 3.3 | INCLUDES INTEGRAL CURB |
| | | TOTALS | 672.3 | 672.3 | 95.7 | |
| | | PAY TOTALS | 672 | 672.3 | 96.0 | |

## PERMANENT EROSION CONTROL

| ROUTE | STA. | STA. | LOCATION | COOL SEASON SEEDING ACRES | TURF TYPE FESCUE SOD SQ. YARDS | REMARKS |
|---|---|---|---|---|---|---|
| D | 0+45.90 | 1+54.97 | RT | | 83.0 | |
| D | 1+34.11 | 1+55.37 | LT | | 17.0 | |
| D | 1+69.97 | 3+18.78 | RT | | 90.0 | |
| D | 1+70.37 | 3+14.91 | LT | | 70.0 | |
| D | 3+35.14 | 4+74.41 | LT | 0.04 | 60.0 | |
| D | 3+33.68 | 6+19.03 | RT | 0.09 | 130.0 | |
| D | 4+94.41 | 6+19.21 | LT | 0.04 | 48.0 | |
| D | 6+36.03 | 7+39.20 | RT | 0.04 | 58.0 | |
| D | 6+39.21 | 7+14.84 | LT | 0.02 | 35.0 | |
| D | 7+24.84 | 9+75.25 | LT | 0.08 | 112.0 | |
| D | 7+81.20 | 9+72.73 | RT | 0.06 | 84.0 | |
| D | 9+90.25 | 11+50.00 | LT | 0.05 | 9.0 | |
| D | 9+92.75 | 11+50.00 | RT | 0.05 | 14.0 | |
| FF | 0+40.28 | 3+00.32 | RT | | 189.0 | |
| FF | 0+40.28 | 1+54.52 | LT | | 127.0 | |
| FF | 1+69.36 | 3+04.71 | LT | | 63.0 | |
| FF | 3+20.32 | 5+89.63 | RT | 0.05 | 176.0 | |
| FF | 3+24.71 | 4+95.41 | LT | | 77.0 | |
| FF | 5+15.27 | 6+90.65 | LT | 0.05 | 76.0 | |
| FF | 6+04.63 | 8+68.78 | RT | 0.09 | 114.0 | |
| FF | 7+10.66 | 8+45.18 | LT | 0.04 | 62.0 | |
| FF | 8+65.18 | 9+08.53 | LT | 0.01 | 22.0 | |
| FF | 8+88.78 | 11+61.55 | RT | 0.09 | 119.0 | |
| FF | 9+32.54 | 13+07.76 | LT | 0.11 | 163.0 | |
| FF | 11+73.55 | 14+17.46 | RT | 0.08 | 109.0 | |
| FF | 13+19.76 | 14+57.77 | LT | 0.04 | 23.0 | |
| FF | 14+37.46 | 16+19.90 | RT | 0.06 | 83.0 | |
| FF | 14+73.77 | 17+41.57 | LT | 0.08 | 119.0 | |
| FF | 15+20.00 | | RT | | 239.0 | SOD FOR OUTLET DITCH RT. |
| FF | 16+31.90 | 18+24.93 | RT | 0.06 | 84.0 | |
| FF | 17+61.57 | 20+28.33 | LT | 0.08 | 119.0 | |
| FF | 18+36.93 | 20+21.14 | RT | 0.06 | 80.0 | |
| FF | 20+31.14 | 22+12.12 | RT | 0.06 | 83.0 | |
| FF | 20+48.33 | 23+10.81 | LT | 0.08 | 116.0 | |
| FF | 22+27.12 | 25+60.00 | RT | 0.15 | 12.0 | |
| FF | 23+25.81 | 25+00.00 | LT | 0.06 | 19.0 | |
| | | TOTALS | | 1.72 | 3084.0 | |
| | PAY TOTALS | | | 1.7 | 3084 | |

| ADDITIONAL MOBILIZATION FOR SEEDING |
|---|
| TOTAL = 4 EACH |

## PAVEMENT MARKING (PERMANENT)

| ROUTE | STA. | STA. | DESCRIPTION OF LOCATION | HIGH BUILD WATERBORNE PAVEMENT PAINT WITH TYPE L BEADS 4 IN. YELLOW (LF) | TEMPORARY RAISED PAVEMENT MARKERS (EA) | REMARKS |
|---|---|---|---|---|---|---|
| D | 0+45.90 | 1+59.90 | BEGIN ROUTE D TO ALLEY | 228 | | DOUBLE YELLOW |
| D | 1+59.90 | 11+40.00 | CENTERLINE FROM ALLEY TO END ROUTE D | 245 | | INTERMITTENT YELLOW |
| D | 0+45.90 | 11+40.00 | BEGIN ROUTE D TO END ROUTE D | | 28 | TEMP. PAVEMENT MARKERS |
| FF | 0+40.28 | 1+60.28 | BEGIN ROUTE FF TO DRIVEWAY | 239 | | DOUBLE YELLOW |
| FF | 0+40.28 | 13+00.00 | BEGIN ROUTE FF TO MATCHLINE | | 32 | TEMP. PAVEMENT MARKERS |
| FF | 1+60.28 | 13+00.00 | CENTERLINE FROM DRIVEWAY TO MATCHLINE | 285 | | INTERMITTENT YELLOW |
| FF | 13+00.00 | 24+92.00 | CENTERLINE FROM MATCHLINE TO END ROUTE FF | 298 | | INTERMITTENT YELLOW |
| | | | TOTALS | 1295 | 60 | |
| | | | PAY TOTALS | 1295 | NO PAY | |

SUMMARY OF QUANTITIES
SHEET 4 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/21/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## DRAINAGE

| RTE | PIPE NO. | STA. | STA. | LOCATION | GROUP B PIPE 12" LIN. FT. | GROUP B PIPE 15" LIN. FT. | GROUP B PIPE 18" LIN. FT. | GROUP B PIPE 24" LIN. FT. | GROUP B PIPE 17"X 13" ARCH LIN. FT. | PVC PIPE 8" LIN. FT. | PVC PIPE 4" LIN. FT. | GROUP B END SECTIONS 12" EACH | GROUP B END SECTIONS 15" EACH | GROUP B END SECTIONS 18" EACH | GROUP B END SECTIONS 17"X 13" FES EACH | FLOWABLE BACKFILL CY | CLASS 3 EXECAVATION CY | ROCK LINING CY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | P-80 | 2+05.00 | 2+05.00 | LT | | 8.0 | | | | | | | | | | | 1.0 | | PIPE FROM AREA INLET 80 TO INLET 85 |
| D | P-81 | 2+07.54 | 2+98.80 | LT | | 91.3 | | | | | | | | | | | 29.0 | | PIPE BETWEEN INLETS 81 & 85 |
| D | P-85 | 3+01.30 | 3+45.50 | LT | | 44.1 | | | | | | | 1.0 | | | | 20.4 | | PIPE UNDER UNION STREET |
| D | P-82 | 2+40.00 | 2+98.80 | RT | | 58.5 | | | | | | | | | | | 17.0 | | PIPE FROM AREA INLET 82 TO INLET 84 |
| D | P-84 | 3+00.00 | | CENTER | | 31.0 | | | | | | | | | | 12.8 | 14.2 | | PIPE UNDER ROUTE D |
| D | P-83 | 3+00.00 | 3+07.80 | RT | | 12.5 | | | | | | | 1.0 | | | | 0.1 | | PIPE TO INLET 84 |
| D | P-100 | 3+39.15 | 3+42.03 | RT | 7.3 | | | | | | | 2.0 | | | | | 1.5 | | PIPE UNDER SIDEWALK |
| D | P-101 | 4+68.54 | 4+98.69 | LT | | 26.0 | | | | | | | 2.0 | | | | 8.6 | | PIPE UNDER ALLEY ENTRANCE |
| D | P-101A | 4+67.86 | 4+91.17 | RT | 19.0 | | | | | | | 2.0 | | | | | 6.5 | | PIPE UNDER ALLEY ENTRANCE |
| D | P-102 | 6+04.13 | | CENTER | | 33.1 | | | | | | | 2.0 | | | 13.0 | 14.5 | | PIPE UNDER ROUTE D |
| D | P-103 | 6+14.00 | 6+40.19 | RT | | 30.0 | | | | | | | 2.0 | | | | 4.4 | | PIPE UNDER WALNUT STREET (EAST SIDE) |
| D | P-104 | 6+04.13 | 6+10.87 | LT | | | 16.1 | | | | | | | 2.0 | | | 5.2 | | PIPE UNDER SIDEWALK |
| D | P-105 | 6+42.21 | 6+48.66 | RT | 11.0 | | | | | | | 2.0 | | | | | 4.0 | | PIPE UNDER SIDEWALK |
| D | P-106 | 6+12.61 | 6+44.20 | LT | | 27.3 | | | | | | | 2.0 | | | | 9.6 | | PIPE UNDER WALNUT STREET (WEST SIDE) |
| D | P-107 | 7+10.53 | 7+29.10 | LT | | | | | 15.4 | | | | | | 2.0 | | 4.8 | | PIPE UNDER PRIVATE ENTRANCE |
| D | P-108 | 7+64.93 | 7+85.31 | RT | | | | | 17.2 | | | | | | 2.0 | | 4.6 | | PIPE UNDER PRIVATE ENTRANCE |
| FF | P-26 | 4+24.72 | 4+25.00 | RT | | | 25.1 | | | | | | | | | | 7.7 | | PIPE FROM DITCH ON WEST SIDE OF RTE. FF TO INLET 28 |
| FF | P-26A | 4+91.63 | 4+24.72 | RT | | | 34.1 | | | | | | | 1.0 | | | 11.2 | | PIPE FROM DITCH ON WEST SIDE OF RTE. FF TO INLET 28 |
| FF | P-26B | 4+24.72 | 4+24.72 | RT | 10.6 | | | | | | | | | | | | 1.1 | | PIPE FROM DITCH ON WEST SIDE OF RTE. FF TO INLET 28 |
| FF | P-28 | 4+24.00 | 3+47.60 | RT | | | 76.3 | | | | | | | | | | 40.3 | | PIPE BETWEEN INLETS 28 & 29 |
| FF | P-29 | 3+42.65 | 2+77.65 | RT | | | | 65.0 | | | | | | | | | 42.6 | | PIPE BETWEEN INLETS 29 & 30 |
| FF | P-30 | 2+75.00 | 2+75.00 | CENTER | | | | 41.0 | | | | | | | | | 31.5 | | PIPE BETWEEN INLETS 30 & 31 UNDER RTE FF |
| FF | P-31 | 2+71.85 | 1+33.55 | LT | | | | 134.5 | | | | | | | | | 124.6 | | PIPE BETWEEN INLETS 31 & 33 |
| FF | P-32 | 1+30.84 | 1+45.00 | CENTER | | 43.3 | | | | | | | | | | | 25.6 | | PIPE BETWEEN INLETS 32 & 33 UNDER RTE FF |
| FF | P-33 | 1+28.60 | 0+45.00 | LT | | | | 81.1 | | | | | | | | | 69.6 | | PIPE BETWEEN INLETS 33 & 34 |
| FF | P-25 | 5+31.62 | 4+25.00 | LT | | 98.8 | | | | | | | 1.0 | | | | 34.1 | | PIPE FROM DITCH ON EAST SIDE OF RTE. FF TO INLET 27 |
| FF | P-27 | 4+25.00 | | CENTER | | 41.0 | | | | | | | | | | | 19.9 | | PIPE BETWEEN INLETS 27 & 28 UNDER RTE FF |
| FF | P-109 | 5+68.97 | 6+11.12 | RT | | 38.0 | | | | | | | 2.0 | | | | 14.9 | | PIPE UNDER MCKINLEY STREET |
| FF | P-110 | 6+85.08 | 7+15.71 | LT | | 26.3 | | | | | | | 2.0 | | | | 10.2 | | PIPE UNDER PRIVATE ENTRANCE |
| FF | P-110A | 8+41.26 | 8+69.10 | LT | | 25.3 | | | | | | | 2.0 | | | | 10.7 | | PIPE UNDER PRIVATE ENTRANCE |
| FF | P-111 | 11+56.22 | 11+98.27 | RT | | 38.4 | | | | | | | 2.0 | | | | 12.2 | | PIPE UNDER UNNAMED CITY STREET |
| FF | P-112 | 13+00.79 | 13+26.61 | LT | | 21.5 | | | | | | | 2.0 | | | | 11.5 | | PIPE UNDER PRIVATE ENTRANCE |
| FF | P-113 | 14+12.48 | 14+69.29 | RT | | 53.0 | | | | | | | 2.0 | | | | 16.0 | | PIPE UNDER PRIVATE ENTRANCE |
| FF | P-114 | 14+52.04 | 14+79.58 | LT | | 23.2 | | | | | | | 2.0 | | | | 12.4 | | PIPE UNDER BAILEY STREET |
| FF | P-115 | 15+10.00 | | CENTER | | 31.9 | | | | | | | 2.0 | | | 11.0 | 12.4 | | PIPE UNDER ROUTE FF |
| FF | P-116 | 15+10.00 | 15+10.00 | RT | | | 9.4 | | | | | | | 2.0 | | | 3.4 | 3.0 | PIPE UNDER SIDEWALK |
| FF | P-117 | 16+15.03 | 16+36.70 | RT | | 17.3 | | | | | | | 2.0 | | | | 6.7 | | PIPE UNDER PRIVATE ENTRANCE |
| FF | P-117A | 16+20.13 | 16+32.63 | LT | | 8.2 | | | | | | | 2.0 | | | | 3.3 | | PIPE UNDER SIDEWALK |
| FF | P-118 | 17+10.77 | 17+52.27 | RT | | 37.2 | | | | | | | 2.0 | | | | 7.2 | | PIPE UNDER MAILBOX TURNOUT |
| FF | P-119 | 17+34.99 | 17+67.31 | LT | | 28.0 | | | | | | | 2.0 | | | | 13.0 | | PIPE UNDER GREEN STREET |
| FF | P-120 | 18+10.41 | 18+61.16 | RT | | 46.4 | | | | | | | 2.0 | | | | 10.9 | | PIPE UNDER PRIVATE ENTRANCE |
| FF | | 21+26.65 | | RT | | | | | | 13.5 | 8.6 | | | | | | | | PIPE UNDER SIDEWALK |
| FF | P-121 | 22+06.48 | 22+47.72 | RT | | 65.0 | | | | | | | 2.0 | | | | 13.0 | | PIPE UNDER PRIVATE ENTRANCE |
| FF | | 23+02.00 | | LT | | | | | | 13.5 | | | | | | | | | PIPE UNDER SIDEWALK |
| FF | P-122 | 23+02.83 | 23+32.17 | LT | | 25.0 | | | | | | | 2.0 | | | | 9.0 | | PIPE UNDER UNNAMED CITY STREET |
| FF | P-200 | 5+68.02 | 5+79.62 | RT | 18.3 | | | | | | | 1.0 | | | | | 6.1 | | PIPE UNDER SIDEWALK |
| FF | P-201 | 5+86.12 | 6+08.43 | RT | 19.2 | | | | | | | 2.0 | | | | | 6.5 | | PIPE UNDER MCKINLEY STREET |
| | | | TOTALS | | 85.4 | 1029.6 | 161.0 | 321.6 | 32.6 | 27.0 | 8.6 | 9.0 | 41.0 | 5.0 | 4.0 | 36.8 | 733.0 | 3.0 | |
| | | | PAY TOTALS | | 85 | 1030 | 161 | 322 | 33 | 27 | 9 | 9.0 | 41.0 | 5.0 | 4.0 | 37 | 733 | 3.0 | |

## DROP INLETS AND MANHOLES

| ROUTE | STRUCTURE ID | STA. | OFFSET FEET | LOCATION | TYPE T PRECAST DROP INLET 2.5'X 3' FEET | TYPE T PRECAST DROP INLET 3' X 5' FEET | TYPE T PRECAST DROP INLET TYPE 3 MANHOLE FRAME & COVER EACH | TYPE S1 PRECAST DROP INLET 2.5' X 3' FEET | TYPE S1 PRECAST DROP INLET 2.5' X 3' GRATE & BEARING PLATE EACH | MANHOLE 48" FEET | MANHOLE TYPE 2 MANHOLE FRAME & COVER EACH | CLASS 3 EXCAVATION CUBIC YARDS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | AI-80 | 2+05.00 | 28.00 | LT | | | | 1.66 | 1.0 | | | 4.1 | |
| D | I-81 | 2+05.00 | 17.00 | LT | | 2.83 | 1.0 | | | | | 7.9 | |
| D | I-85 | 3+00.00 | 17.00 | LT | 4.20 | | 1.0 | | | | | 5.7 | |
| D | AI-82 | 2+40.00 | 28.23 | RT | | | | 1.75 | 1.0 | | | 3.9 | |
| D | I-84 | 3+00.00 | 17.00 | RT | 3.48 | | 1.0 | | | | | 5.8 | |
| FF | I-28 | 4+25.00 | 22.00 | RT | 4.04 | | 1.0 | | | | | 6.8 | |
| FF | I-29 | 3+45.00 | 22.00 | RT | | 4.16 | 1.0 | | | | | 12.3 | |
| FF | I-30 | 2+75.00 | 22.00 | RT | | 4.18 | 1.0 | | | | | 8.7 | |
| FF | I-31 | 2+75.00 | 22.00 | LT | | 4.99 | 1.0 | | | | | 15.3 | |
| FF | I-33 | 1+31.00 | 22.00 | LT | | 4.45 | 1.0 | | | | | 14.9 | |
| FF | I-32 | 1+45.00 | 22.00 | RT | | 4.50 | 1.0 | | | | | 9.6 | |
| FF | MH-26 | 4+24.72 | 21.00 | LT | | | | | | 2.46 | 1.0 | 4.6 | |
| FF | I-27 | 4+25.00 | 22.00 | LT | 3.50 | | 1.0 | | | | | 6.6 | |
| | | | TOTALS | | 15.2 | 25.1 | 10.0 | 3.4 | 2.0 | 2.5 | 1.0 | 106.2 | |
| | | | PAY TOTALS | | 15 | 25 | 10 | 3 | 2 | 3 | 1 | 106 | |

SUMMARY OF QUANTITIES
SHEET 5 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/28/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

| ROUTE | STATION | LOCATION | CURB INLET CHECKS EACH | ALTERNATE DITCH CHECKS LF | SILT FENCE LF | SEDIMENT REMOVAL CY | REMARKS |
|---|---|---|---|---|---|---|---|
| D | 2+05.00 | LEFT | 1 | | | 1 | |
| D | 2+40.00 | RIGHT | | | 20 | 0.2 | AREA INLET |
| D | 3+00.00 | RIGHT | 1 | | | 1 | |
| D | 3+00.00 | LEFT | 1 | | | 1 | |
| D | 3+73.00 - 9+00.00 | RIGHT | | 96 | | 8 | DITCH CHECKS SPACED @ 75' O.C. |
| D | 3+73.00 - 9+00.00 | LEFT | | 96 | | 8 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 0+45.00 | LEFT | 1 | | | 1 | |
| FF | 0+45.00 | RIGHT | 1 | | | 1 | |
| FF | 1+31.00 | LEFT | 1 | | | 1 | |
| FF | 2+75.00 | LEFT | 1 | | | 1 | |
| FF | 2+75.00 | RIGHT | 1 | | | 1 | |
| FF | 3+45.00 | RIGHT | 1 | | | 1 | |
| FF | 4+25.00 | LEFT | 1 | | | 1 | |
| FF | 4+25.00 | RIGHT | 1 | | | 1 | |
| FF | 5+26.00 | RIGHT | | 12 | | 1 | |
| FF | 5+70.00 - 6+45.00 | LEFT | | 24 | | 2 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 6+45.00 - 7+95.00 | RIGHT | | 36 | | 3 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 7+45.00- 8+20.00 | LEFT | | 24 | | 2 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 9+65.00 - 11+15.00 | RIGHT | | 36 | | 3 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 10+12.00 - 13+12.00 | LEFT | | 48 | | 4 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 12+65.00 - 13+40.00 | RIGHT | | 24 | | 2 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 3+74.00 | LEFT | | 12 | | 1 | |
| FF | 15+04.00 | LEFT | | 12 | | 1 | PLACE ADJACENT TO CROSSROAD CULVERT INLET |
| FF | 15+04.00 | RIGHT | | 12 | | 1 | PLACE ADJACENT TO CROSSROAD CULVERT INLET |
| FF | 15+17.00 | LEFT | | 12 | | 1 | PLACE ADJACENT TO CROSSROAD CULVERT INLET |
| FF | 15+17.00 | RIGHT | | 12 | | 1 | PLACE ADJACENT TO CROSSROAD CULVERT INLET |
| FF | 15+92.00 - 16+67.00 | RIGHT | | 24 | | 2 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 15+92.00 - 16+67.00 | LEFT | | 24 | | 2 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 17+90.00 | RIGHT | | 12 | | 1 | |
| FF | 18+17.00 - 19+67.00 | LEFT | | 36 | | 3 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 19+45.00 | RIGHT | | 12 | | 1 | |
| FF | 20+85.00 - 21+60.00 | RIGHT | | 24 | | 2 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 21+25.00 - 22+75.00 | LEFT | | 36 | | 3 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 23+42.00 - 24+92.00 | RIGHT | | 36 | | 3 | DITCH CHECKS SPACED @ 75' O.C. |
| FF | 24+17.00 - 24+92.00 | LEFT | | 24 | | 2 | DITCH CHECKS SPACED @ 75' O.C. |
| | | TOTALS | 11 | 684 | 20 | 68.2 | |
| | PAY TOTALS | | 11 | 684 | 20 | 68 | |

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK 1 CY PER SEDIMENT TRAP AND 1 CY PER 100' OF SILT FENCE.

## PAVEMENT EDGE TREATMENT

| ROUTE | STA. | STA. | LOCATION | EDGE DROPOFF TREATMENT LIN.FT. | REMARKS |
|---|---|---|---|---|---|
| D | 0+45.90 | 3+44.84 | LT | 298.9 | |
| D | 0+45.90 | 3+43.96 | RT | 298.1 | |
| D | 4+64.41 | 5+04.41 | LT | 40.0 | |
| D | 6+09.04 | 6+49.04 | LT | 40.0 | |
| D | 6+09.04 | 6+46.20 | RT | 37.2 | |
| D | 7+04.84 | 7+34.84 | LT | 30.0 | |
| D | 7+59.20 | 7+91.20 | RT | 32.0 | |
| D | 9+62.73 | 10+02.73 | RT | 40.0 | |
| D | 9+65.25 | 9+99.97 | LT | 34.7 | |
| FF | 0+40.28 | 4+05.00 | RT | 364.7 | |
| FF | 0+40.28 | 5+25.12 | LT | 484.8 | |
| FF | 5+79.80 | 6+14.80 | RT | 35.0 | |
| FF | 6+80.50 | 7+20.50 | LT | 40.0 | |
| FF | 8+36.56 | 8+71.56 | LT | 35.0 | |
| FF | 8+58.94 | 8+98.94 | RT | 40.0 | |
| FF | 8+98.37 | 9+42.37 | LT | 44.0 | |
| FF | 11+51.72 | 11+83.72 | RT | 32.0 | |
| FF | 12+97.61 | 13+29.61 | LT | 32.0 | |
| FF | 14+07.62 | 14+47.62 | RT | 40.0 | |
| FF | 14+47.62 | 14+83.62 | LT | 36.0 | |
| FF | 16+10.06 | 16+42.06 | RT | 32.0 | |
| FF | 17+31.42 | 17+71.42 | LT | 40.0 | |
| FF | 18+15.09 | 18+47.09 | RT | 32.0 | |
| FF | 20+11.29 | 20+41.29 | RT | 30.0 | |
| FF | 20+18.19 | 20+58.19 | LT | 40.0 | |
| FF | 22+02.29 | 22+37.29 | RT | 35.0 | |
| FF | 23+00.66 | 23+35.66 | LT | 35.0 | |
| | | TOTAL | | 2,278.4 | |
| | PAY TOTAL | | | 2,278 | |

## 8" NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

| ROUTE | STA. | STA. | LOCATION | DISTANCE | WIDTH | 8" NON-REINFORCED CONCRETE PAVEMENT SQ. YARDS | TYPE 1 AGGR. BASE 4 IN. THICK SQ. YARDS | REMARKS |
|---|---|---|---|---|---|---|---|---|
| D | 0+45.90 | 1+34.02 | LT | 88.12 | 15.6 | 152.5 | 152.5 | |
| D | 0+45.90 | 1+34.02 | RT | 88.12 | 6.0 | 58.7 | 58.7 | |
| D | 1+34.02 | 1+75.00 | LT | 40.98 | 4.5 | 20.5 | 20.5 | |
| D | 1+34.02 | 1+75.00 | RT | 40.98 | 4.5 | 20.5 | 20.5 | |
| D | 1+75.00 | 3+25.00 | RT | 150.00 | 4.5 | 75.0 | 75.0 | |
| D | 1+75.00 | 3+25.00 | LT | 150.00 | 4.5 | 75.0 | 75.0 | |
| FF | 0+40.28 | 3+15.00 | RT | 274.72 | 10.5 | 320.5 | 320.5 | PARKING AREA |
| FF | 0+40.28 | 3+15.00 | RT | 274.72 | 10.5 | 320.5 | 320.5 | PARKING AREA |
| FF | 3+15.00 | 4+95.00 | LT | 180.00 | 10.0 | 200.0 | 200.0 | PARKING AREA |
| FF | 3+15.00 | 4+95.00 | RT | 180.00 | 10.0 | 200.0 | 200.0 | PARKING AREA |
| | | TOTAL | | | | 1443.2 | 1443.2 | |
| | | PAY TOTAL | | | | 1443.2 | 1443.0 | |

SUMMARY OF QUANTITIES
SHEET 6 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/13/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 3
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE: 10-01-2019

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL AREA SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| WARNING SIGNS | | | | | | | | |
| W01-1L | 48X48 | 16.00 | | | | | | TURN (SYMBOL LEFT ARROW) |
| W01-1R | 48X48 | 16.00 | | | | | | TURN (SYMBOL RIGHT ARROW) |
| W01-2L | 48X48 | 16.00 | | | | | | CURVE (SYMBOL LEFT ARROW) |
| W01-2R | 48X48 | 16.00 | | | | | | CURVE (SYMBOL RIGHT ARROW) |
| W01-3L | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL LEFT ARROW) |
| W01-3R | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL RIGHT ARROW) |
| W01-4L | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL LEFT ARROW) |
| W01-4R | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL RIGHT ARROW) |
| W01-4bL | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4bR | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-4cL | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4cR | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-6 | 60X30 | 12.50 | | | | | | HORIZONTAL ARROW (SYMBOL) |
| W01-6a | 72X36 | 18.00 | | | | | | HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE) |
| W01-7 | 60X30 | 12.50 | | | | | | DOUBLE HEAD HORIZONTAL ARROW (SYMBOL) |
| W01-7a | 72X36 | 18.00 | | | | | | DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.) |
| W01-8 | 18X24 | 3.00 | | | | | | CHEVRON (SYMBOL) |
| W01-8a | 30X36 | 7.50 | | | | | | CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) |
| W03-1 | 48X48 | 16.00 | | | | | | STOP AHEAD (SYMBOL) |
| W03-2 | 48X48 | 16.00 | | | | | | YIELD AHEAD (SYMBOL) |
| W03-3 | 48X48 | 16.00 | | | | | | SIGNAL AHEAD (SYMBOL) |
| W03-4 | 48X48 | 16.00 | | | | | | BE PREPARED TO STOP |
| W03-5 | 48X48 | 16.00 | | | | | | SPEED LIMIT AHEAD |
| W04-1L | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM LEFT) |
| W04-1R | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM RIGHT) |
| W04-1aL | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W04-1aR | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W05-1 | 48X48 | 16.00 | | | | | | ROAD/BRIDGE/RAMP NARROWS |
| W05-3 | 48X48 | 16.00 | | | | | | ONE LANE BRIDGE |
| W05-5 | 48X48 | 16.00 | | | | | | NARROW LANES |
| W06-1 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY (SYMBOL) |
| W06-2 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY END (SYMBOL) |
| W06-3 | 48X48 | 16.00 | | | | | | TWO WAY TRAFFIC (SYMBOL) |
| W07-3a | 30X24 | 5.00 | | | | | | NEXT XX MILES (PLAQUE) |
| W08-1 | 48X48 | 16.00 | 2 | 32.00 | | | 16 | BUMP |
| W08-2 | 48X48 | 16.00 | | | | | | DIP |
| W08-3 | 48X48 | 16.00 | | | | | | PAVEMENT ENDS |
| W08-4 | 48X48 | 16.00 | | | | | | SOFT SHOULDER |
| W08-5 | 48X48 | 16.00 | | | | | | SLIPPERY WHEN WET (SYMBOL) |
| W08-6 | 48X48 | 16.00 | | | | | | TRUCK CROSSING |
| W08-6c | 48X48 | 16.00 | | | | | | TRUCK ENTRANCE |
| W08-7 | 36X36 | 9.00 | | | | | | LOOSE GRAVEL |
| W08-7a | 36X36 | 9.00 | | | | | | FRESH OIL/LOOSE GRAVEL |
| W08-9 | 48X48 | 16.00 | | | | | | LOW SHOULDER |
| W08-11 | 48X48 | 16.00 | | | | | | UNEVEN LANES |
| W08-12 | 48X48 | 16.00 | | | | | | NO CENTER LINE |
| W08-15 | 48X48 | 16.00 | | | | | | GROOVED PAVEMENT |
| W08-15P | 30X24 | 5.00 | | | | | | MOTORCYCLE (PLAQUE) |
| W08-17 | 48X48 | 16.00 | | | | | | SHOULDER DROP-OFF (SYMBOL) |
| W08-17P | 30X24 | 5.00 | | | | | | SHOULDER DROP-OFF (PLAQUE) |
| W10-1 | 42RND. | 9.62 | | | | | | RAILROAD CROSSING |
| W012-1 | 24X24 | 4.00 | | | | | | DOUBLE DOWN ARROW (SYMBOL) |
| W012-2 | 48X48 | 16.00 | | | | | | LOW CLEARANCE (SYMBOL) |
| W012-2X | 24X18 | 3.00 | | | | | | LOW CLEARANCE (PLAQUE) |
| W012-2a | 84X24 | 14.00 | | | | | | OVERHEAD LOW CLEARANCE (FEET AND INCHES) |
| W012-4 | 120X60 | 50.00 | | | | | | LOW CLEARANCE XX FT XX IN XX MILES AHEAD |
| W012-5 | 120X60 | 50.00 | | | | | | WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD |
| W013-1 | 30X30 | 6.25 | | | | | | ADVISORY SPEED (PLAQUE) |
| W016-2 | 30X24 | 5.00 | | | | | | 500 FEET (PLAQUE) |
| W016-3 | 30X24 | 5.00 | | | | | | X MILE (PLAQUE) |
| W020-1 | 48X48 | 16.00 | 2 | 32.00 | | | 2 | ROAD/BRIDGE/RAMP WORK AHEAD |
| W020-2 | 48X48 | 16.00 | | | | | | DETOUR AHEAD |
| W020-3 | 48X48 | 16.00 | 2 | 32.00 | | | 8 | ROAD CLOSED AHEAD |
| W020-3a | 48X48 | 16.00 | 2 | 32.00 | | | 9 | ROAD CLOSED 500 FT |
| W020-4 | 48X48 | 16.00 | 2 | 32.00 | | | | ONE LANE ROAD AHEAD |
| W020-5 | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED AHEAD |
| W020-5a | 48X48 | 16.00 | | | | | | 2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD |
| W020-6a | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED |
| W020-7a | 48X48 | 16.00 | 2 | 32.00 | | | 4 | FLAGGER (SYMBOL) WITH FLAGS |
| W021-2 | 36X36 | 9.00 | | | | | | FRESH OIL |
| W021-5 | 48X48 | 16.00 | 1 | 16.00 | | | 5 | SHOULDER WORK AHEAD |
| W021-5a | 48X48 | 16.00 | 1 | 16.00 | | | 6 | RIGHT SHOULDER CLOSED |
| W022-2 | 42X36 | 10.50 | | | | | | TURN OFF 2-WAY RADIO AND PHONE |
| W022-3 | 42X36 | 10.50 | | | | | | END BLASTING ZONE |
| G022-1 | 21X15 | 2.19 | 1 | 2.19 | | | | WET PAINT (ARROW PIVOTS) |

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| GUIDE SIGNS | | | | | | | | |
| E05-1 | 36X48 | 12.00 | | | | | | GORE EXIT |
| E05-2 | 48X36 | 12.00 | | | | | | EXIT OPEN |
| E05-2a | 48X36 | 12.00 | | | | | | EXIT CLOSED |
| G020-1 | 60X24 | 10.00 | | | | | | ROAD WORK NEXT XX MILES |
| G020-2 | 48X24 | 8.00 | | | | | | END ROAD WORK |
| G020-4 | 36X18 | 4.50 | | | | | | PILOT CAR FOLLOW ME |
| G020-4a | 42X30 | 8.75 | | | | | | PLEASE WAIT FOR PILOT CAR |
| G020-5aP | 36X24 | 6.00 | | | | | | WORK ZONE (PLAQUE) |
| M04-8a | 24X18 | 3.00 | | | | | | END DETOUR |
| M04-9L | 48X36 | 12.00 | 1 | 12.00 | | | 14 | DETOUR (LEFT ARROW) |
| M04-9R | 48X36 | 12.00 | 1 | 12.00 | | | 15 | DETOUR (RIGHT ARROW) |
| M04-9P | 48X12 | 4.00 | | | | | | STREET NAME (PLAQUE) |
| M04-10L | 48X18 | 6.00 | | | | | | DETOUR (ARROW LEFT) |
| M04-10R | 48X18 | 6.00 | | | | | | DETOUR (ARROW RIGHT) |
| REGULATORY SIGNS | | | | | | | | |
| R1-1 | 48X48 | 13.25 | | | | | | STOP |
| R1-2 | 48TRI. | 6.93 | | | | | | YIELD |
| R1-2a | 36X36 | 9.00 | | | | | | TO ONCOMING TRAFFIC (PLAQUE) |
| R1-3P | 30X12 | 2.50 | | | | | | ALL WAY (PLAQUE) |
| R2-1 | 36X48 | 12.00 | 2 | 24.00 | | | 7 | SPEED LIMIT 55 |
| R3-1 | 48X48 | 16.00 | | | | | | NO RIGHT TURN (SYMBOL) |
| R3-2 | 48X48 | 16.00 | | | | | | NO LEFT TURN (SYMBOL) |
| R3-3 | 36X36 | 9.00 | | | | | | NO TURNS |
| R3-4 | 48X48 | 16.00 | | | | | | NO U-TURN (SYMBOL) |
| R3-7L | 30X30 | 6.25 | | | | | | LEFT LANE MUST TURN LEFT |
| R3-7R | 30X30 | 6.25 | | | | | | RIGHT LANE MUST TURN RIGHT |
| R4-1 | 36X48 | 12.00 | | | | | | DO NOT PASS |
| R4-2 | 36X48 | 12.00 | | | | | | PASS WITH CARE |
| R4-8a | 36X48 | 12.00 | | | | | | KEEP LEFT (HORIZONTAL ARROW) |
| R4-7a | 36X48 | 12.00 | | | | | | KEEP RIGHT (HORIZONTAL ARROW) |
| R5-1 | 30X30 | 6.25 | | | | | | DO NOT ENTER |
| R5-1a | 36X24 | 6.00 | | | | | | WRONG WAY |
| R6-1L | 54X18 | 6.75 | | | | | | ONE WAY ARROW (LEFT) |
| R6-1R | 54X18 | 6.75 | | | | | | ONE WAY ARROW (RIGHT) |
| R6-2L | 24X30 | 5.00 | | | | | | ONE WAY (LEFT) |
| R6-2R | 24X30 | 5.00 | | | | | | ONE WAY (RIGHT) |
| R9-9 | 24X12 | 2.00 | 4 | 8.00 | | | 12 | SIDEWALK CLOSED |
| R9-11L | 24X18 | 3.00 | 2 | 6.00 | | | 13a | SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE |
| R9-11R | 24X18 | 3.00 | 2 | 6.00 | | | 13b | SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE |
| R10-6 | 24X36 | 6.00 | | | | | | STOP HERE ON RED (45° ARROW) |
| R11-2 | 48X30 | 10.00 | 2 | 20.00 | | | 11 | ROAD CLOSED |
| R11-3a | 60X30 | 12.50 | | | | | | ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY |
| R11-4 | 60X30 | 12.50 | 2 | 25.00 | | | 10 | ROAD CLOSED TO THRU TRAFFIC |
| CONST-3A | 60X48 | 20.00 | | | | | | FINE SIGN |
| CONST-3X | 56X12 | 4.67 | | | | | | SPEEDING/PASSING (PLATE) |
| MISCELLANEOUS SIGNS | | | | | | | | |
| CONST-5 | 48X36 | 12.00 | | | | | | POINT OF PRESENCE |
| CONST-4 | 96X48 | 32.00 | 2 | 64.00 | | | | POINT OF PRESENCE |
| CONST-7 | 48X24 | 8.00 | | | | | | RATE OUR WORK ZONE |
| CONST-7 | 72X36 | 18.00 | 2 | 36.00 | | | | RATE OUR WORK ZONE |
| CONST-8 | 48X36 | 12.00 | | | | | | WORK ZONE NO PHONE ZONE |
| | | | | | | | | |
| W08-24 | 48X48 | 16.00 | 2 | 32.00 | | | 17 | STEEL PLATE AHEAD |

| | TOTAL |
|---|---|
| 616-10.05 CONSTRUCTION SIGNS | 427 |

| | TOTAL |
|---|---|
| 616-10.10 RELOCATED SIGNS | 0 |

| ITEM NUMBER | TOTAL EACH | DESCRIPTION |
|---|---|---|
| 6122008 | | IMPACT ATTENUATOR 40 MPH (SAND BARRELS) |
| 6122009 | | IMPACT ATTENUATOR 45 MPH (SAND BARRELS) |
| 6122010 | | IMPACT ATTENUATOR 50 MPH (SAND BARRELS) |
| 6122012 | | IMPACT ATTENUATOR 55 MPH (SAND BARRELS) |
| 6122014 | | IMPACT ATTENUATOR 60 MPH (SAND BARRELS) |
| 6122017 | | IMPACT ATTENUATOR 65 MPH (SAND BARRELS) |
| 6122019 | | IMPACT ATTENUATOR 70 MPH ( SAND BARRELS) |
| 6122020 | | REPLACEMENT SAND BARREL |
| 6122030 | | IMPACT ATTENUATOR (RELOCATION) |
| 6123000A | | TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA) |
| 6161007 | | SPEED LIMIT AND STROBE LIGHT ASSEMBLY |
| 6161008 | 2 | ADVANCED WARNING RAIL SYSTEM |
| 6161009 | 4 | FLAG ASSEMBLY |
| 6161012 | | BUOYS (BOATS KEEP OUT) |
| 6161013 | | BUOYS (NO WAKE) |
| 6161014 | | SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT) |
| 6161024 | | CHANNELIZER (TRIM LINE) WITH LIGHT |
| 6161025 | 35 | CHANNELIZER (TRIM LINE) |
| 6161030 | 2 | TYPE III MOVEABLE BARRICADE |
| 6161031 | 6 | TYPE III MOVEABLE BARRICADE WITH LIGHT |
| 6161033 | | DIRECTION INDICATOR BARRICADE |
| 6161034 | | DIRECTION INDICATOR BARRICADE, WITH LIGHT |
| 6161040 | | FLASHING ARROW PANEL |
| 6161047 | | TYPE III OBJECT MARKER |
| 6161052 | | WARNING LIGHT, TYPE B |
| 6161055 | | SEQUENTIAL FLASHING WARNING LIGHT |
| 6161070 | | TUBULAR MARKER |
| 6161095 | | RADAR SPEED ADVISORY SYSTEM |
| 6161096 | | CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED |
| 6161098A | 2 | CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6161099 | | CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6162000A | | WORK ZONE TRAFFIC SIGNAL SYSTEM |
| 6162002 | | TEMPORARY LONG-TERM RUMBLE STRIPS |
| 6162004 | | TEMPORARY SHORT-TERM RUMBLE STRIPS |
| 6162010 | | WORK ZONE LIGHTING |
| 6173600D | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED |
| 6173602B | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED |
| 6174000A | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION |
| 6175010A | | RELOCATING TEMPORARY TRAFFIC BARRIER |
| 6176000B | | TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED |
| 6177000B | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED |
| 6208064A | | TEMPORARY RAISED PAVEMENT MARKER |
| 9029400 | | TEMPORARY TRAFFIC SIGNALS |
| 9029401 | | TEMPORARY TRAFFIC SIGNALS AND LIGHTING |
| 61699.01 | 4 | PEDESTRIAN BARRICADE |
| | | |
| | | |

SUMMARY OF QUANTITIES
SHEET 7 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/13/2019
ROUTE: D/FF | STATE: MO
DISTRICT: NW | SHEET NO.: 3
COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

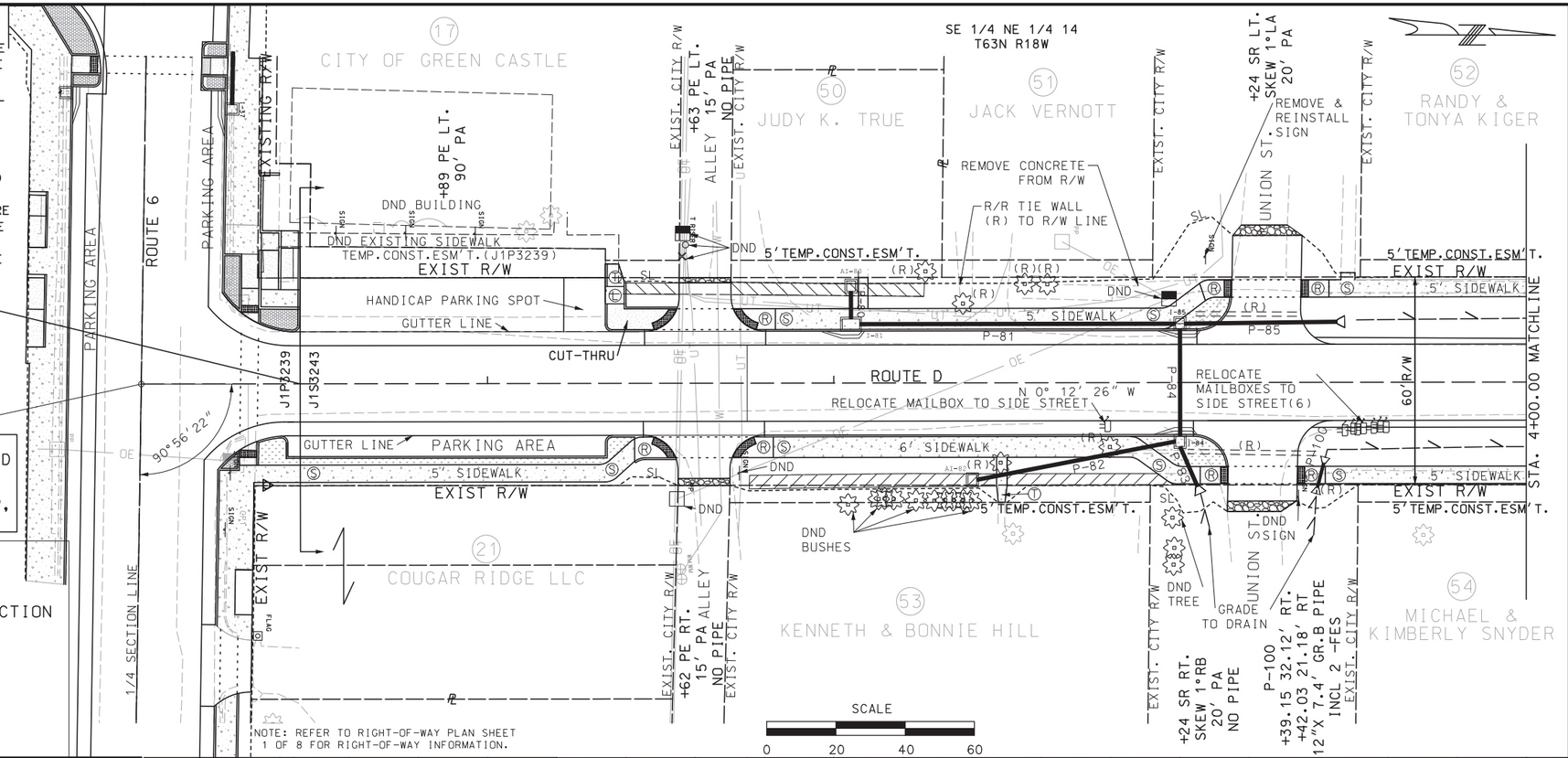
1. RIGHT OF WAY LIMITS FOR THIS SECTION EXTEND FROM STA. 0+45.90 TO STA. 10+09.38, A DISTANCE OF 0.183 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE STATE PLANE BEARING, NAD83, CENTRAL ZONE
4. FOR STORMWATER DISCHARGES AND TEMPORARY EROSION CONTROL, THE PROJECT OUTLETS INTO BRANCHS OF JOBS CREEK AND MUSSEL FORK (RECEIVING WATERS).
5. ALL CURB RAMPS AND SIDEWALK WITHIN THE PROJECT LIMITS AND STATE RIGHT-OF-WAY THAT IS SHOWN TO USE IN PLACE SHALL BE FIELD VERIFIED FOR COMPLIANCE BY THE CONTRACTOR. IF AREAS ARE FOUND TO BE NON-COMPLIANT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
6. UNLESS DIRECTED BY THE ENGINEER, EROSION CONTROL SHALL BE LIMITED TO DEVICES INCLUDED IN THE CONTRACT.

BEGIN PROJECT AT STA.0+45.90 ℄ ROUTE D
FEDERAL IMPROVEMENT BEGINS AT A POINT LOCATED 2,687.16' NORTH AND 119.62'EAST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2" IRON ROD, MLS DOC 600-101612.

STA. 875+35.00 ROUTE 6=
STA.0+00.00 ROUTE D

CERTIFIED LAND CORNER
STA 0+45.90 CENTERLINE OF ROUTE D IS LOCATED 2689.83' N 02°32'56" E OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2" IRON ROD, MLS DOC 600-101612.

EX.SIDEWALK (R) — GRAVEL
RAMP/LANDING — (S) SIDEWALK SECTION
SIDEWALK — (R) RAMP
TRUNCATED DOMES — (T) TRANSITION
3" CONC. MEDIAN — (L) LANDING




NOTE: REFER TO RIGHT-OF-WAY PLAN SHEET 1 OF 8 FOR RIGHT-OF-WAY INFORMATION.

SCALE
0 20 40 60

## UTILITY CONTACTS

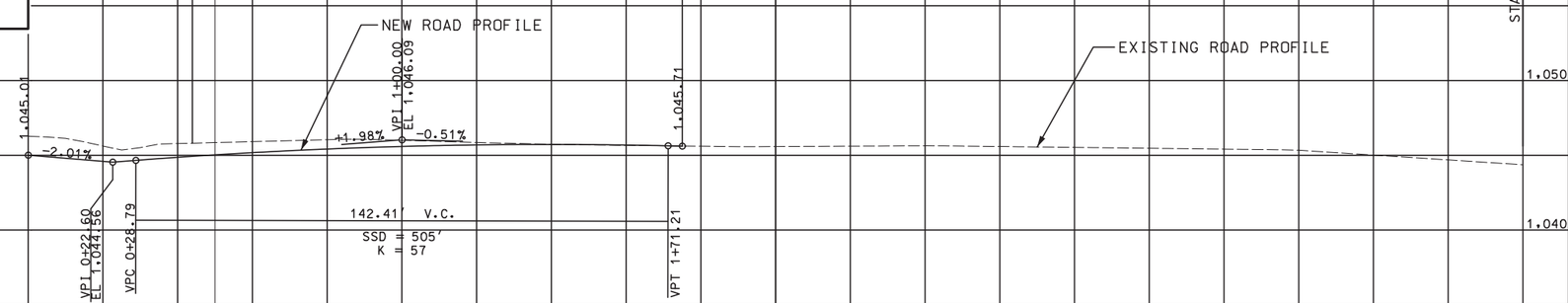
CITY OF GREEN CASTLE
355 FRONT STREET
GREEN CASTLE, MO 63544
CONTACT:
(660) 874-4717

AMEREN MISSOURI ELECTRIC
P.O. BOX 790352
ST. LOUIS, MO 63179-0352
CONTACT:
(866) 992-6619

NE MISSOURI RURAL TELEPHONE CO.
P.O. BOX 98
GREEN CITY, MO 63545
CONTACT:
(660) 874-4111

PAVEMENT REPLACEMENT
CLASS A EXCAVATION - 207 CY
COMPACTING EMBANKMENT - 4 CY

ASPHALT OVERLAY AND CROWN CORRECTION
SEE PLAN SHEET 5 FOR EARTHWORK BALANCES




PLAN/PROFILE
SHEET 1 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

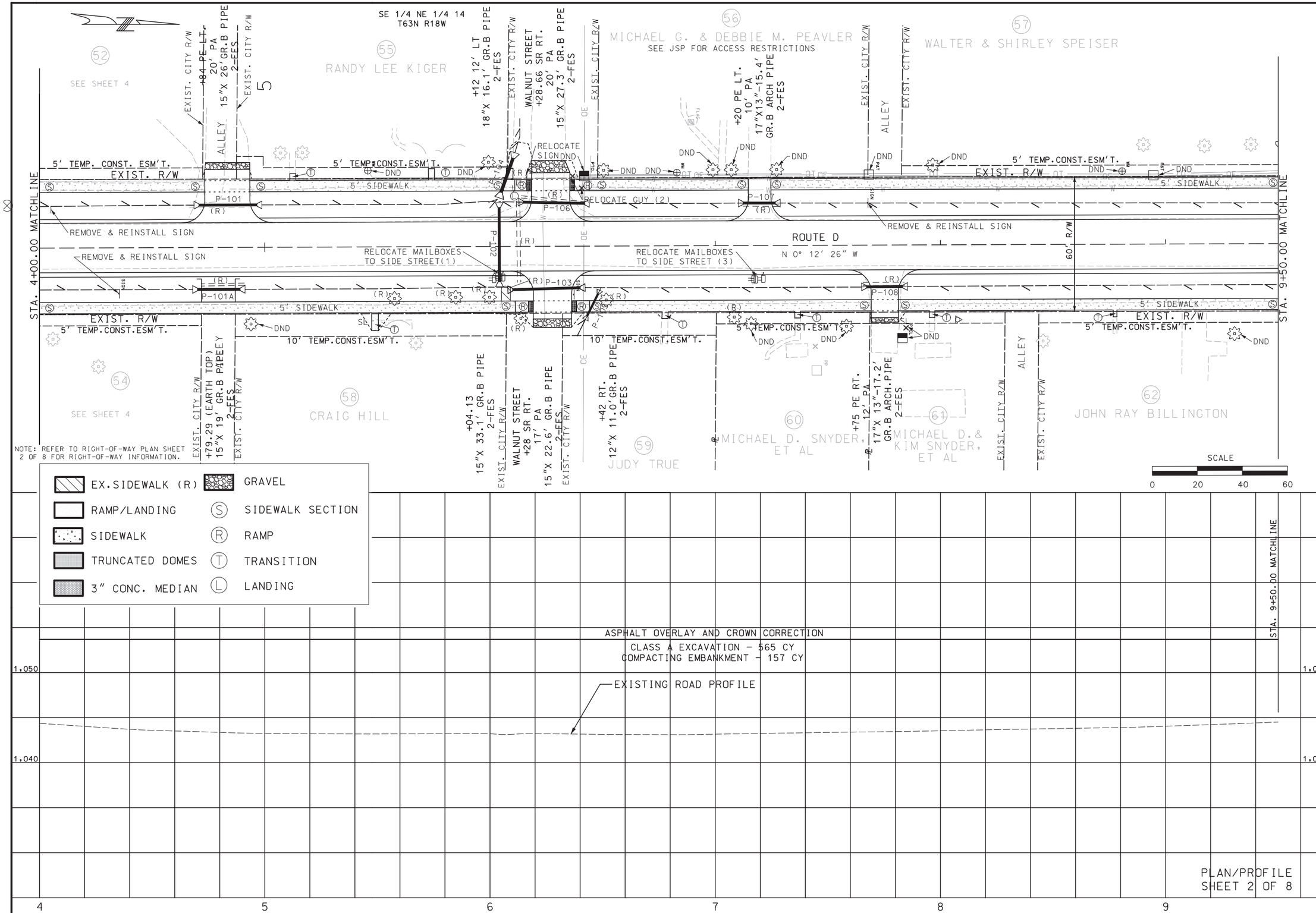
DATE PREPARED: 8/3/2020
ROUTE: D/FF | STATE: MO
DISTRICT: NW | SHEET NO.: 4
COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DATE | DESCRIPTION |
|---|---|
| 2/12/2020 | CONST. EASM'T. REMOVED FROM PARCEL 21 |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




PLAN/PROFILE
SHEET 2 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 8/21/2019 |
| ROUTE | D/FF |
| STATE | MO |
| DISTRICT | NW |
| SHEET NO. | 5 |
| COUNTY | SULLIVAN |
| JOB NO. | J1S3243 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

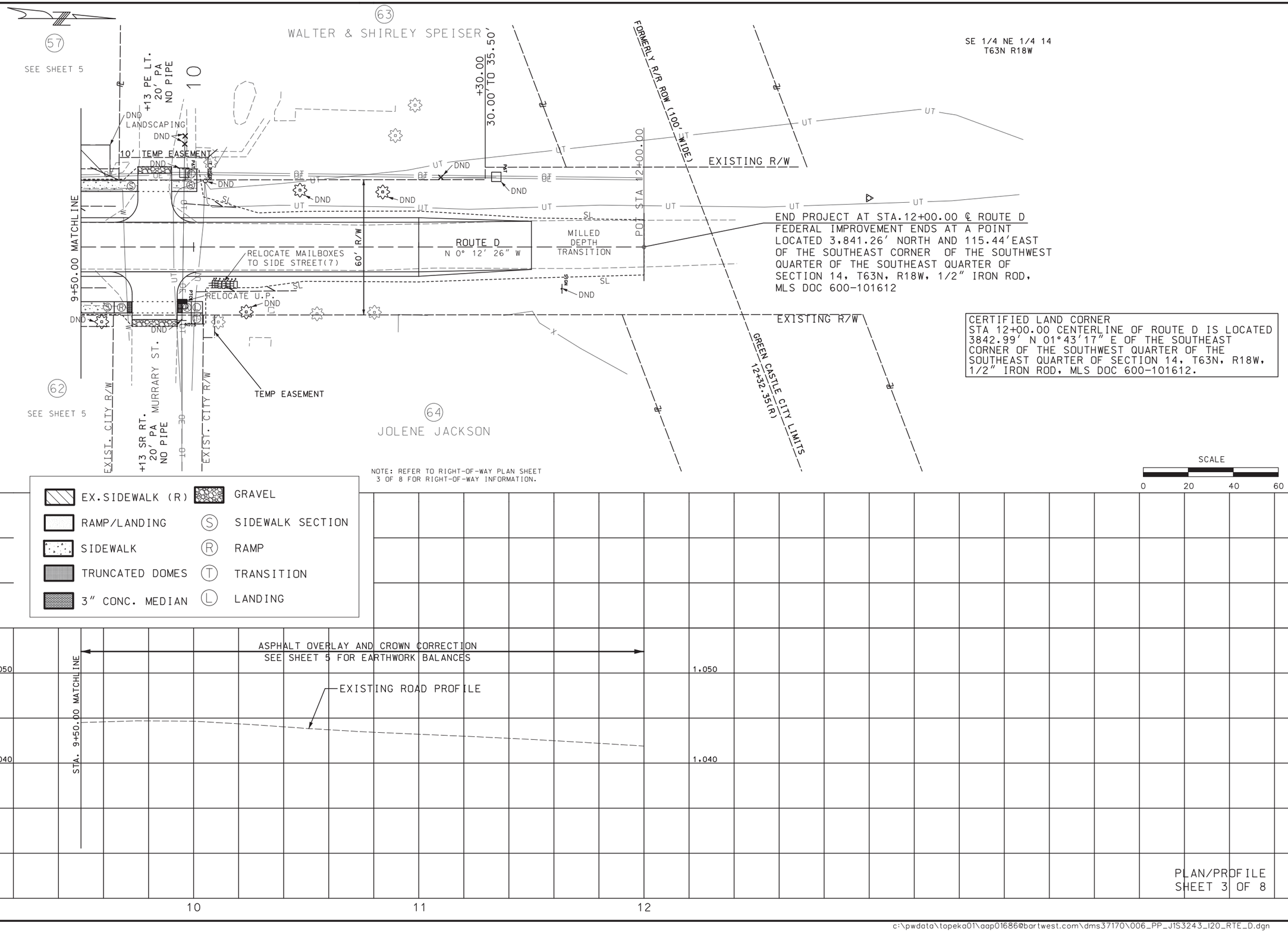
| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.108/MicroStation/J1S3243/plan sheets/005_PP_J1S3243_I20_RTE_D.dgn 3:18:50 PM 8/21/2019




PLAN/PROFILE
SHEET 3 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 6 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

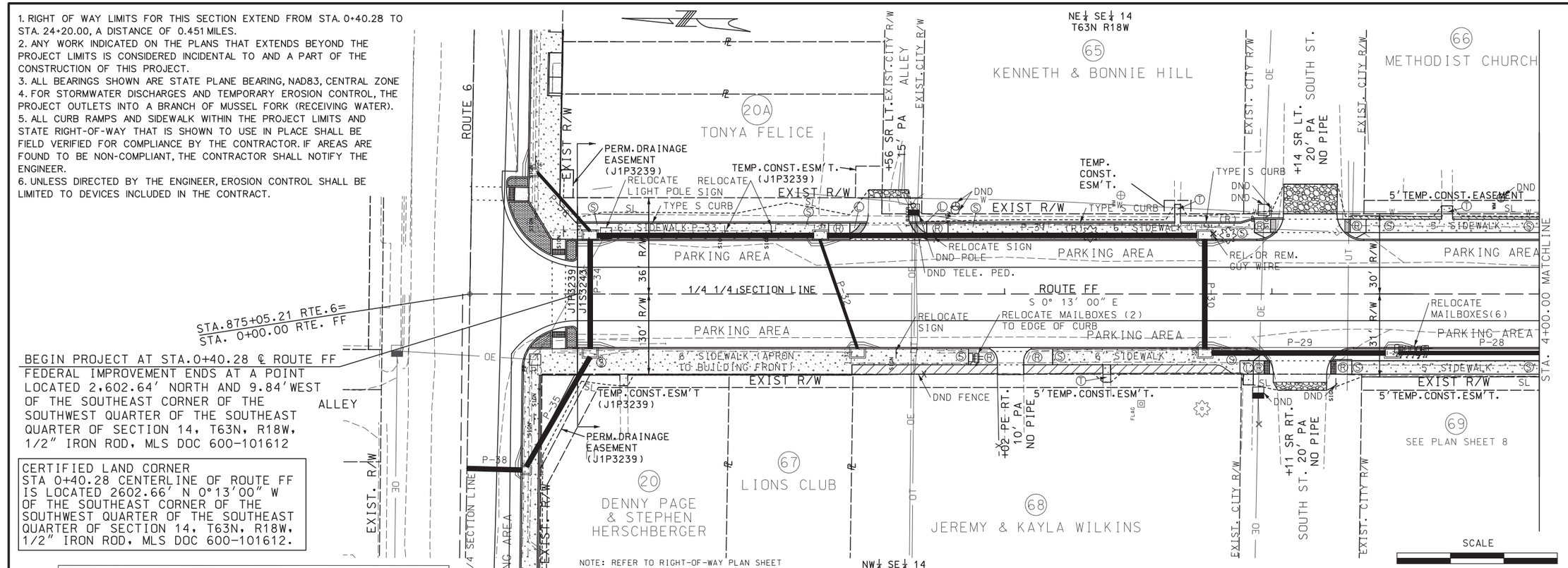
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

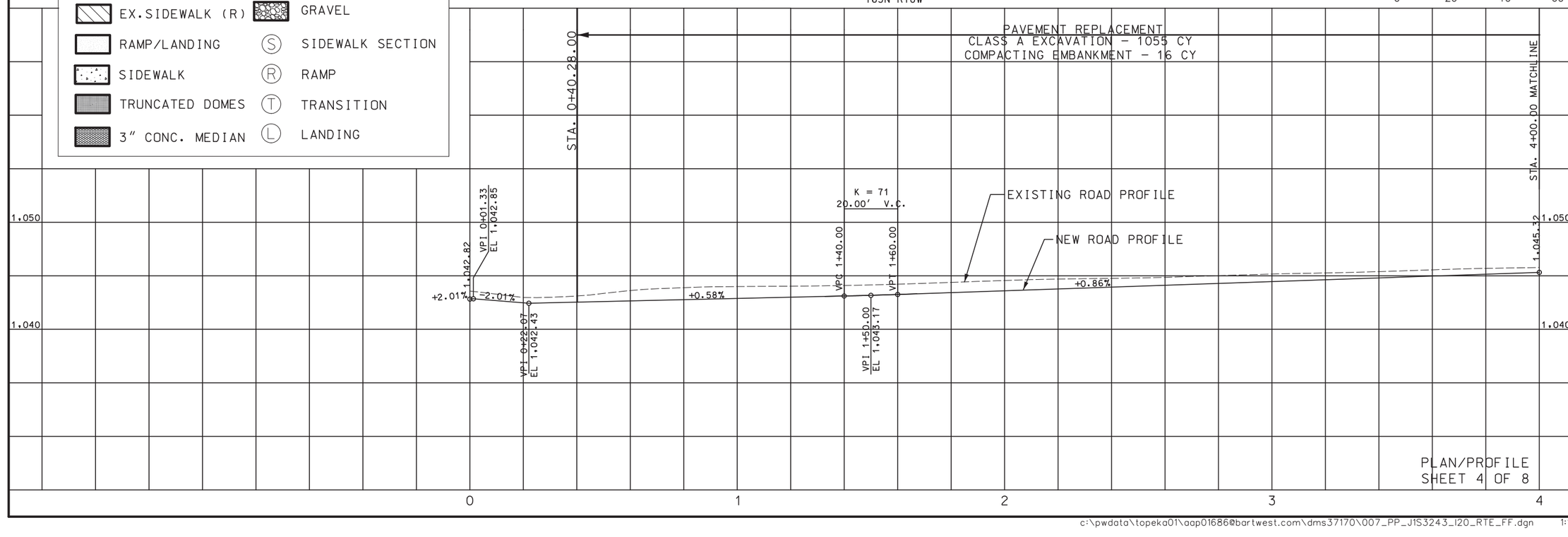

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

1. RIGHT OF WAY LIMITS FOR THIS SECTION EXTEND FROM STA. 0+40.28 TO STA. 24+20.00, A DISTANCE OF 0.451 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE STATE PLANE BEARING, NAD83, CENTRAL ZONE
4. FOR STORMWATER DISCHARGES AND TEMPORARY EROSION CONTROL, THE PROJECT OUTLETS INTO A BRANCH OF MUSSEL FORK (RECEIVING WATER).
5. ALL CURB RAMPS AND SIDEWALK WITHIN THE PROJECT LIMITS AND STATE RIGHT-OF-WAY THAT IS SHOWN TO USE IN PLACE SHALL BE FIELD VERIFIED FOR COMPLIANCE BY THE CONTRACTOR. IF AREAS ARE FOUND TO BE NON-COMPLIANT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
6. UNLESS DIRECTED BY THE ENGINEER, EROSION CONTROL SHALL BE LIMITED TO DEVICES INCLUDED IN THE CONTRACT.










PLAN/PROFILE
SHEET 4 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

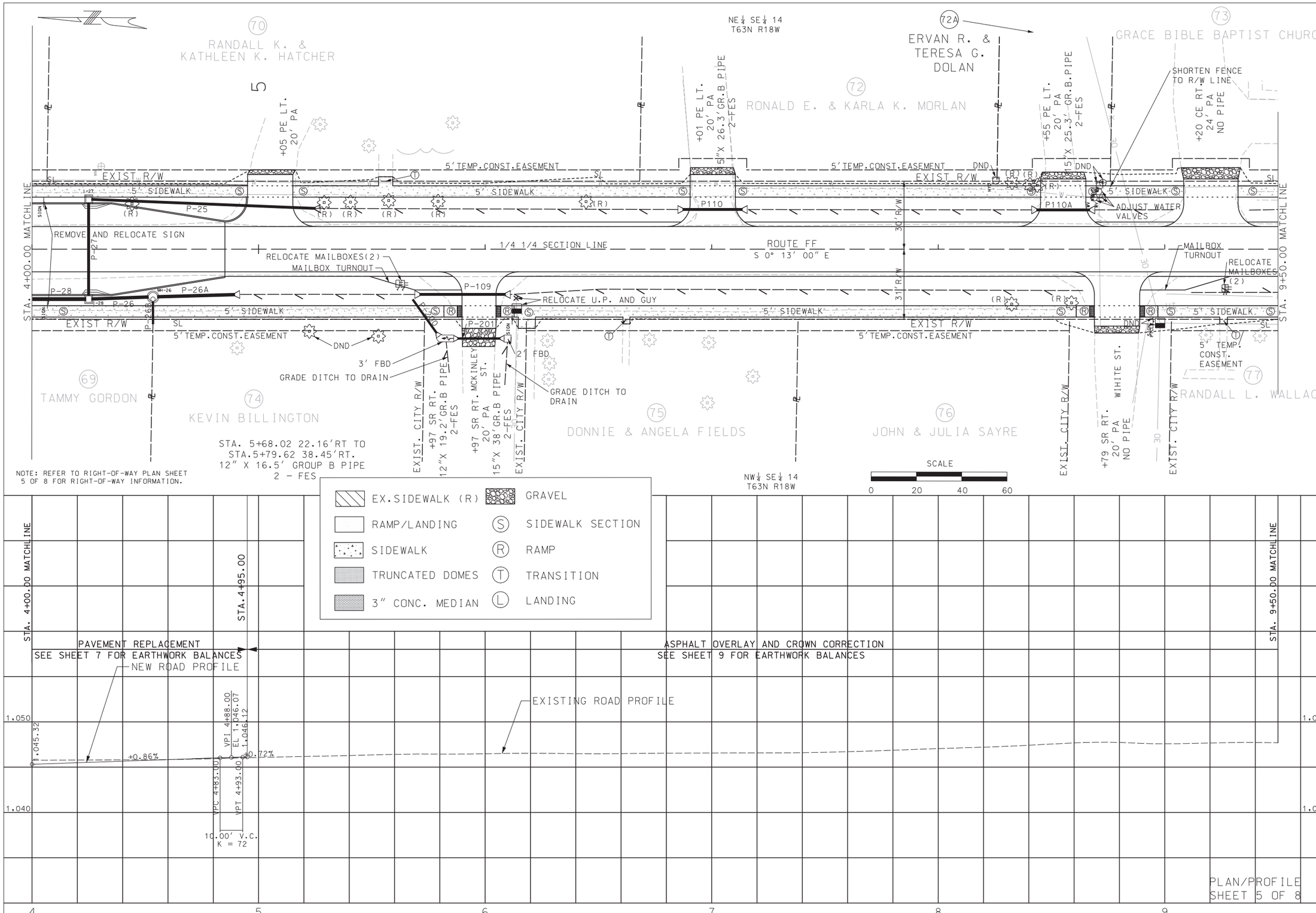
DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 7
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




PLAN/PROFILE
SHEET 5 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 8/28/2019 |
| ROUTE | D/FF |
| STATE | MO |
| DISTRICT | NW |
| SHEET NO. | 8 |
| COUNTY | SULLIVAN |
| JOB NO. | J1S3243 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.108/MicroStation/J1S3243/plan sheets/008_PP_J1S3243_I20_RTE_FF.dgn 11:11:50 AM 8/28/2019

NE¼ SE¼ 14 T63N R18W

SE¼ SE¼ 14 T63N R18W

(73) GRACE BIBLE BAPTIST CHURCH

(78) DELYNNA KAY JONES

(79) CHARLES G. & PHYLLIS R. BRUNDAGE

10

15

STA. 9+50.00 MATCHLINE

STA. 15+00.00 MATCHLINE

DND

DND SIGN (R) POST

USGS MARKER

5' TEMP. CONST. EASEMENT

EXIST. R/W

5' SIDEWALK

REMOVE POST

EXIST. CITY R/W

CITY STREET NOT BUILT

+14 PE LT. 12' PA 15"X 21.6' GR.B PIPE 2-FES

1/4 1/4 SECTION LINE

1/41/4 SECTION LINE

BAILEY ST. +66 SR LT. 16' PA 15"X 23.2' GR.B PIPE 2-FES

P-112

P-114

P-113

30' R/W

31' R/W

ROUTE FF

S 0° 13' 00" E

RELOCATE MAILBOX

MAILBOX TURNOUT

RELOCATE MAILBOXES(3)

DND RISER

5' TEMP. CONST. EASEMENT

10' TEMP. CONST. EASEMENT

DND LANDSCAPING

(77) RANDALL L. WALLACE

(80) PATSY, JOHN & JAMES MOOTS

(81) BOBBY M. & MARY D. CRAIG

UNNAMED STREET

+68 SR RT. 12' PA 15"X 17.6' GR.B PIPE 2-FES

+28 PE RT. 20' PA 15"X 53' GR.B PIPE 2-FES

PERM. ESM'T. (DRAINAGE) ( 25' X 100' )

NW¼ SE¼ 14 T63N R18W

SW¼ SE¼ 14 T63N R18W

NOTE: REFER TO RIGHT-OF-WAY PLAN SHEET 6 OF 8 FOR RIGHT-OF-WAY INFORMATION.

SCALE 0 20 40 60

EX. SIDEWALK (R)
RAMP/LANDING
SIDEWALK
TRUNCATED DOMES
3" CONC. MEDIAN
GRAVEL
(S) SIDEWALK SECTION
(R) RAMP
(T) TRANSITION
(L) LANDING

ASPHALT OVERLAY AND CROWN CORRECTION
CLASS A EXCAVATION – 1137 CY
COMPACTING EMBANKMENT – 228 CY

EXISTING ROAD PROFILE

1,050

1,040

10 11 12 13 14 15

PLAN/PROFILE
SHEET 6 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 9 |

COUNTY SULLIVAN

JOB NO. J1S3243

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West

1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

243
EXRTE_FF
350.000000
1040
20
5
NOGAP

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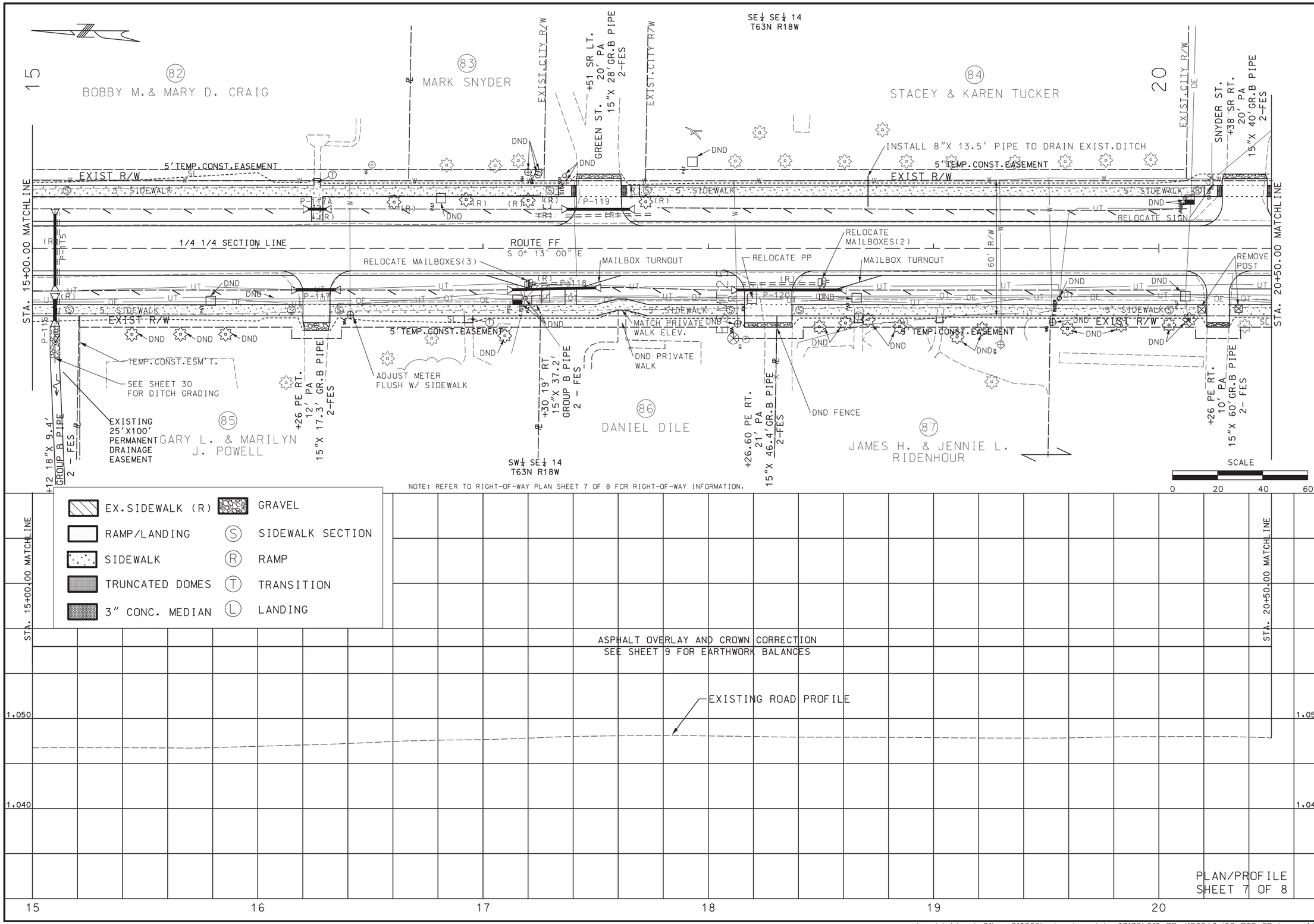


PLAN/PROFILE
SHEET 7 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 8/9/2019 |
| ROUTE | D/FF |
| STATE | MO |
| DISTRICT | NW |
| SHEET NO. | 10 |
| COUNTY | SULLIVAN |
| JOB NO. | J1S3243 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West

1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

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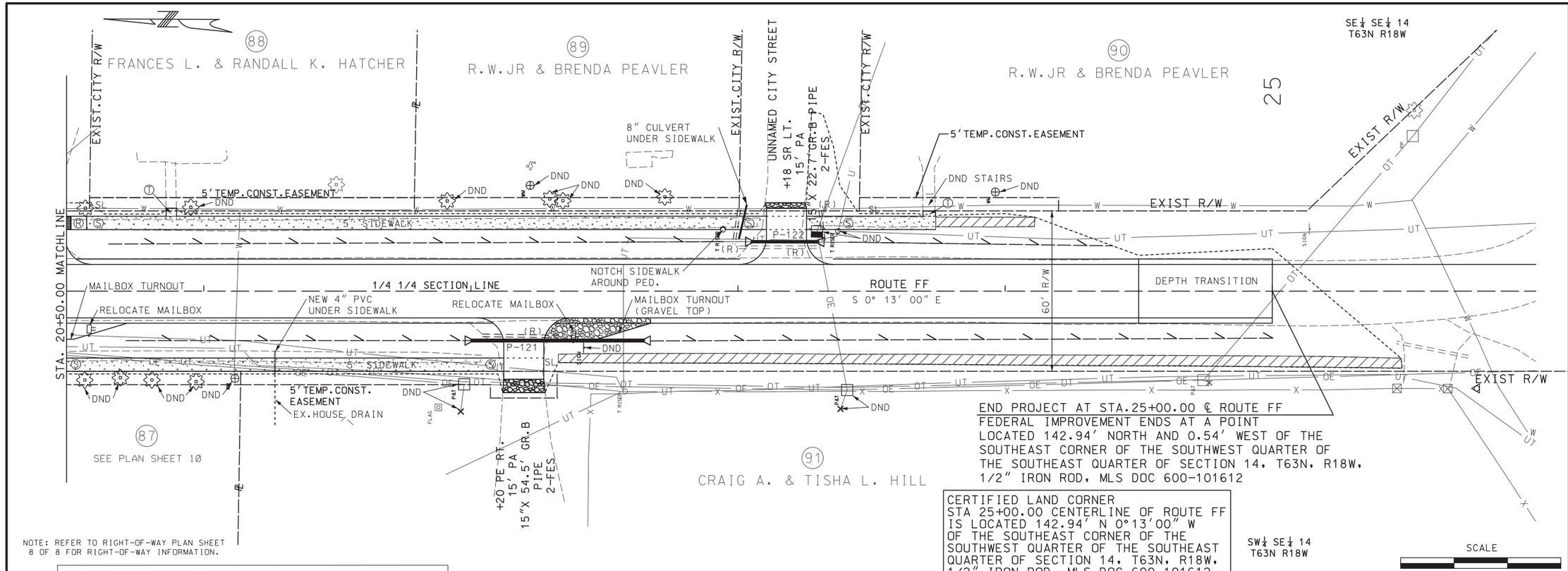
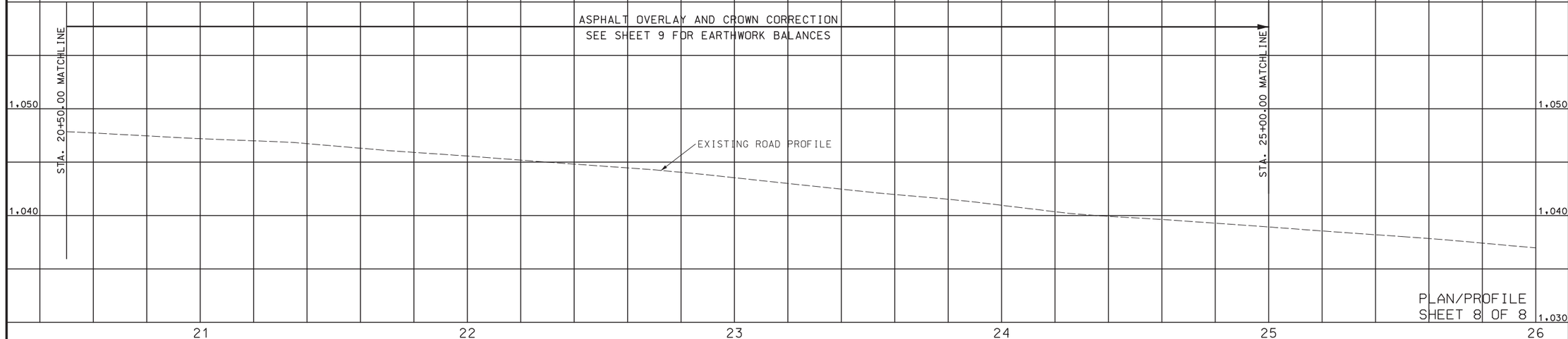



NOTE: REFER TO RIGHT-OF-WAY PLAN SHEET 8 OF 8 FOR RIGHT-OF-WAY INFORMATION.

- EX.SIDEWALK (R)
- GRAVEL
- RAMP/LANDING
- (S) SIDEWALK SECTION
- SIDEWALK
- (R) RAMP
- TRUNCATED DOMES
- (T) TRANSITION
- 3" CONC. MEDIAN
- (L) LANDING




PLAN/PROFILE
SHEET 8 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 11
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

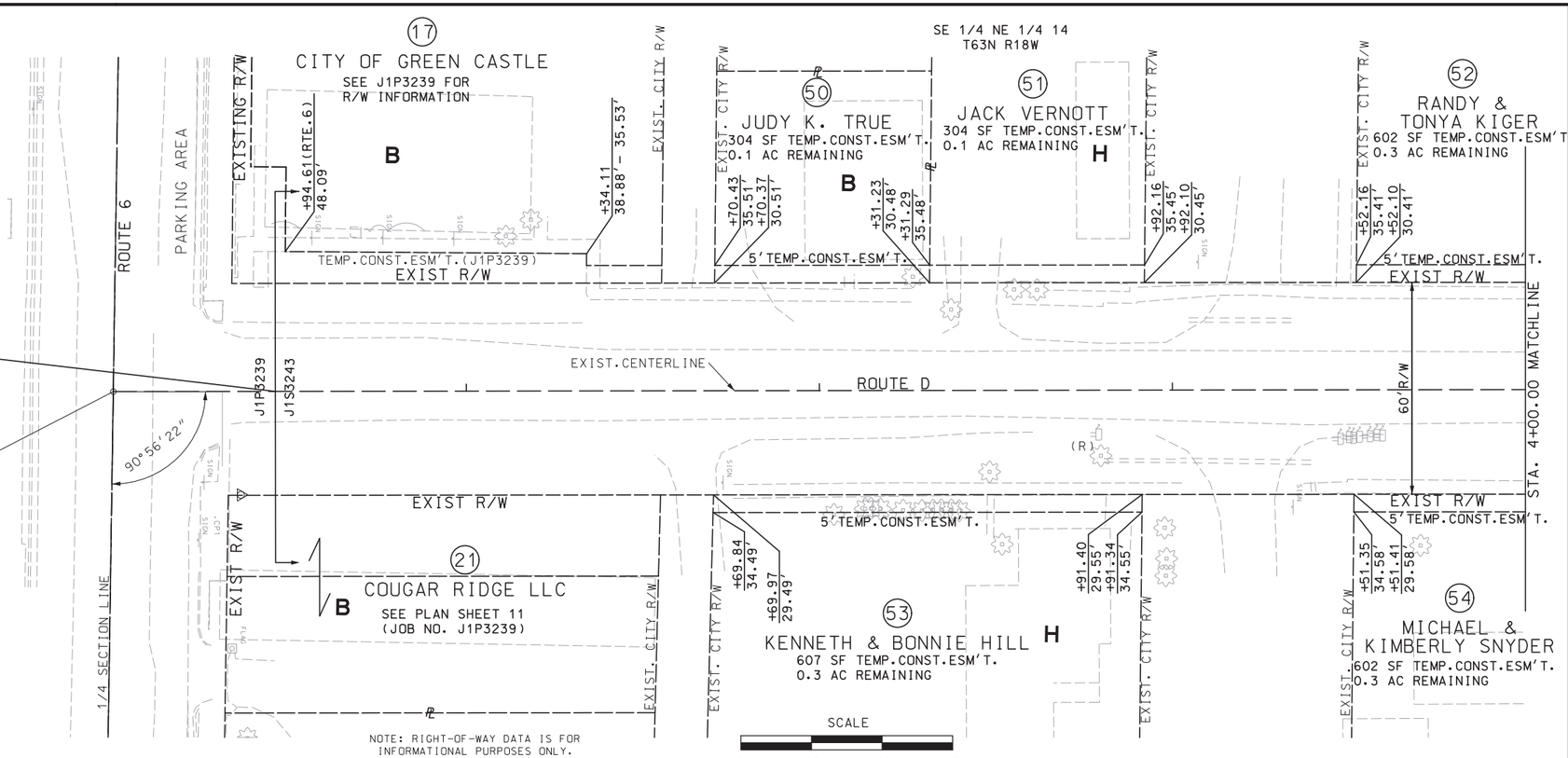
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

1. RIGHT OF WAY LIMITS FOR THIS SECTION EXTEND FROM STA. 0+45.90 TO STA. 10+09.38, A DISTANCE OF 0.183 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE STATE PLANE BEARING, NAD83, CENTRAL ZONE
4. FOR STORMWATER DISCHARGES AND TEMPORARY EROSION CONTROL, THE PROJECT OUTLETS INTO BRANCHS OF JOBS CREEK AND MUSSEL FORK (RECEIVING WATERS).
5. ALL CURB RAMPS AND SIDEWALK WITHIN THE PROJECT LIMITS AND STATE RIGHT-OF-WAY THAT IS SHOWN TO USE IN PLACE SHALL BE FIELD VERIFIED FOR COMPLIANCE BY THE CONTRACTOR. IF AREAS ARE FOUND TO BE NON-COMPLIANT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
6. UNLESS DIRECTED BY THE ENGINEER, EROSION CONTROL SHALL BE LIMITED TO DEVICES INCLUDED IN THE CONTRACT.

BEGIN PROJECT AT STA.0+45.90 ℄ ROUTE D
FEDERAL IMPROVEMENT BEGINS AT A POINT LOCATED 2,687.16' NORTH AND 119.62'EAST OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2" IRON ROD, MLS DOC 600-101612.

STA. 875+35.00 ROUTE 6=
STA.0+00.00 ROUTE D

CERTIFIED LAND CORNER
STA 0+45.90 CENTERLINE OF ROUTE D IS LOCATED 2689.83' N 02°32'56" E OF THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 14, T63N, R18W, 1/2" IRON ROD, MLS DOC 600-101612.

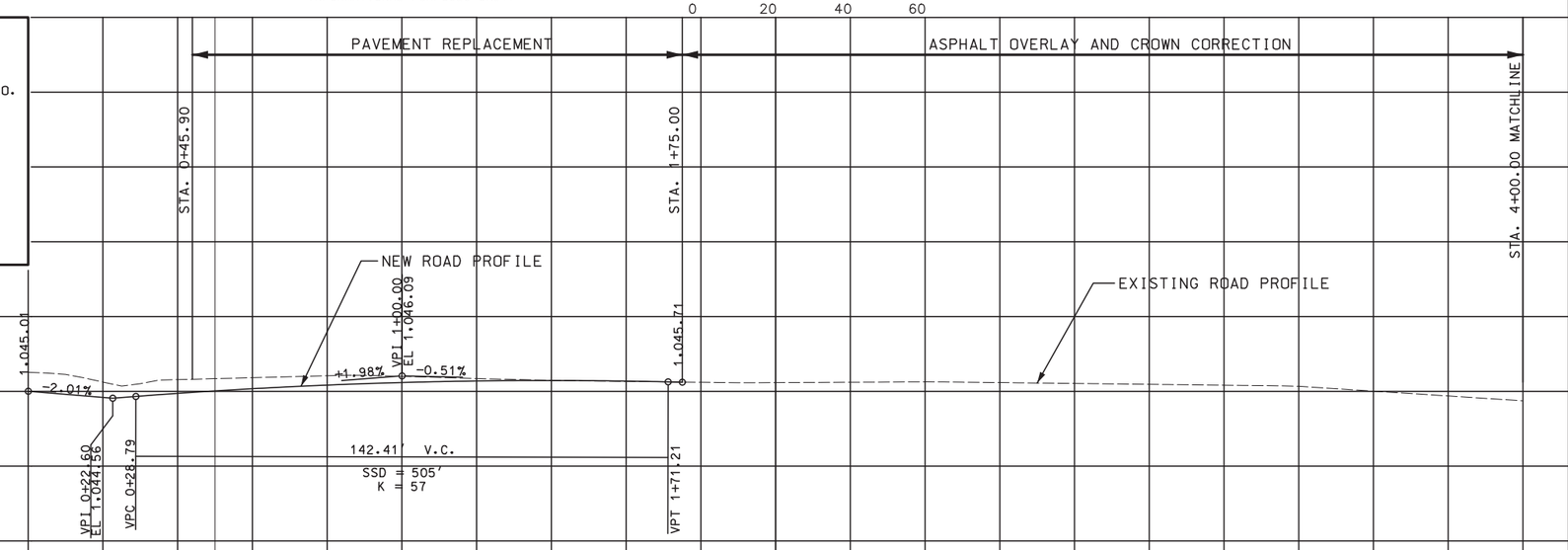



## UTILITY CONTACTS

CITY OF GREEN CASTLE
355 FRONT STREET
GREEN CASTLE, MO 63544
CONTACT:
(660) 874-4717

AMEREN MISSOURI ELECTRIC
P.O. BOX 790352
ST. LOUIS, MO 63179-0352
CONTACT:
(866) 992-6619

NE MISSOURI RURAL TELEPHONE CO.
P.O. BOX 98
GREEN CITY, MO 63545
CONTACT:
(660) 874-4111




RIGHT OF WAY
SHEET 1 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/3/2020

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 12 |

COUNTY
SULLIVAN
JOB NO.
J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|
| 2/12/2020 | CONST. EASM'T. REMOVED FROM PARCEL 21 |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

SE 1/4 NE 1/4 14
T63N R18W

(52) SEE SHEET 12

EXIST. CITY R/W

5' TEMP. CONST. ESM'T.
EXIST. R/W

+72.49 30.35'
+72.55 35.35'

EXIST. CITY R/W

(55) RANDY LEE KIGER
661 SF TEMP.CONST.ESM'T.
0.3 AC REMAINING

+87.61 40.34'
+87.49 30.34'
+99.41 40.34'-35.34'

5' TEMP.CONST.ESM'T.

EXIST. CITY R/W

+07.88 30.28'
+07.94 35.28'

EXIST. CITY R/W

(56) MICHAEL G. & DEBBIE M. PEAVLER
SEE JSP FOR ACCESS RESTRICTIONS

EXIST. CITY R/W

EXIST. CITY R/W

(57) WALTER & SHIRLEY SPEISER
920 SF TEMP.CONST.ESM'T.
0.5 AC REMAINING

+82.94 35.19'
+82.88 30.19'

5' TEMP.CONST.ESM'T.
EXIST. R/W

STA. 4+00.00 MATCHLINE

ROUTE D

EXIST.CENTERLINE

60' R/W

STA. 9+50.00 MATCHLINE

EXIST. R/W
5' TEMP.CONST.ESM'T.

+71.79 29.65'
+71.73 34.65'

(54) SEE SHEET 12

EXIST. CITY R/W

EXIST. CITY R/W +86.68 39.66'
+86.79 29.66'

10' TEMP.CONST.ESM'T.

(58) CRAIG HILL
1204 SF TEMP.CONST.ESM'T.
0.3 AC REMAINING

+07.18 29.72'
+07.07 39.72'

EXIST. CITY R/W

EXIST. CITY R/W +32.06 39.73'
+32.18 29.73'

10' TEMP.CONST.ESM'T.

(59) JUDY TRUE
682 SF TEMP.CONST.ESM'T.
0.2 AC REMAINING

+00.27 39.77'
+00.33 34.77'
+00.39 29.77'

5' TEMP.CONST.ESM'T.

(60) MICHAEL D. SNYDER, ET AL
341 SF TEMP.CONST.ESM'T.
0.2 AC REMAINING

+68.61 29.81'
+68.55 34.81'

(61) MICHAEL D.& KIM SNYDER, ET AL
300 SF TEMP.CONST.ESM'T.
0.2 AC REMAINING

EXIST. CITY R/W

+28.61 29.84'
+28.55 34.84'

EXIST. CITY R/W

+43.55 34.85'
+43.61 29.85'

EXIST. R/W
5' TEMP.CONST.ESM'T.

(62) JOHN RAY BILLINGTON
604 SF TEMP.CONST.ESM'T.
0.3 AC REMAINING

NOTE: RIGHT-OF-WAY DATA IS FOR INFORMATIONAL PURPOSES ONLY.

SCALE
0 20 40 60

ASPHALT OVERLAY AND CROWN CORRECTION

STA. 9+50.00 MATCHLINE

1,050

EXISTING ROAD PROFILE

1,040

4 5 6 7 8 9

RIGHT OF WAY
SHEET 2 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/21/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 13 |

COUNTY
SULLIVAN

JOB NO.
J1S3243

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

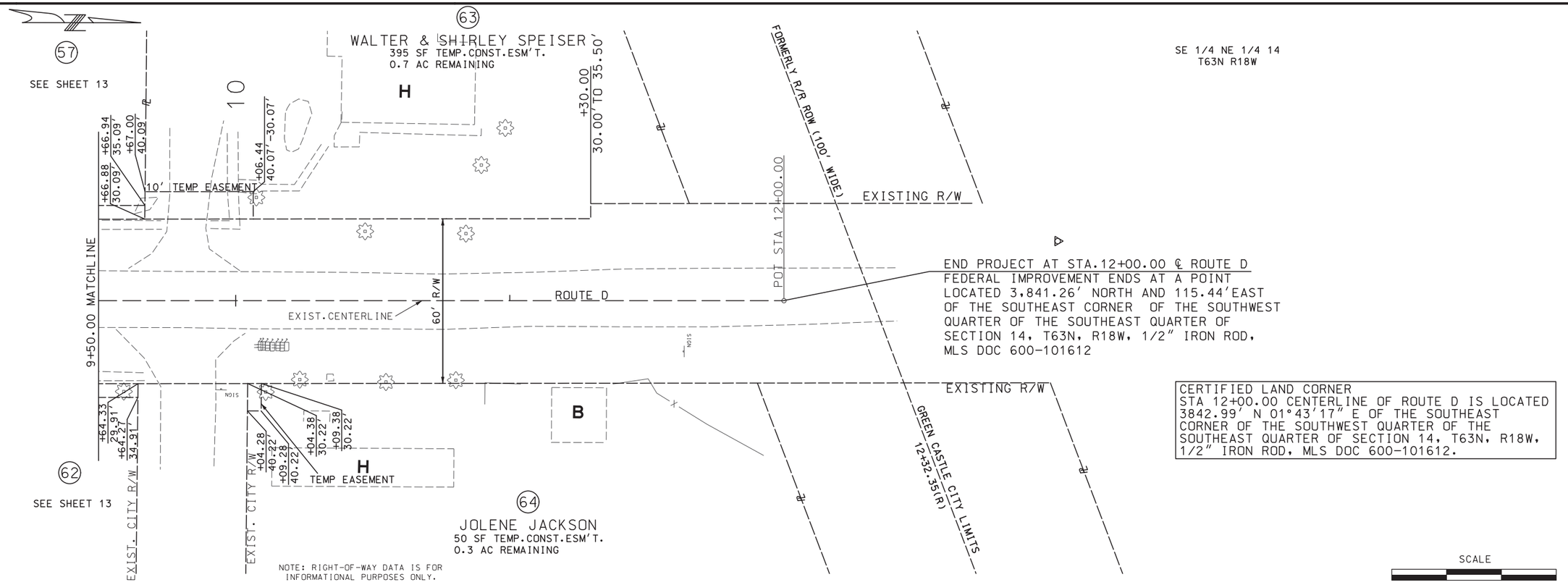
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West

1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.108/MicroStation/J1S3243/plan sheets/013_RW_J1S3243_I20_RTE_D.dgn 3:26:41 PM 8/21/2019




RIGHT OF WAY
SHEET 3 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 14 |

COUNTY
SULLIVAN

JOB NO.
J1S3243

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

1. RIGHT OF WAY LIMITS FOR THIS SECTION EXTEND FROM STA. 0+40.28 TO STA. 24+20.00, A DISTANCE OF 0.451 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE STATE PLANE BEARING, NAD83, CENTRAL ZONE
4. FOR STORMWATER DISCHARGES AND TEMPORARY EROSION CONTROL, THE PROJECT OUTLETS INTO A BRANCH OF MUSSEL FORK (RECEIVING WATER).
5. ALL CURB RAMPS AND SIDEWALK WITHIN THE PROJECT LIMITS AND STATE RIGHT-OF-WAY THAT IS SHOWN TO USE IN PLACE SHALL BE FIELD VERIFIED FOR COMPLIANCE BY THE CONTRACTOR. IF AREAS ARE FOUND TO BE NON-COMPLIANT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
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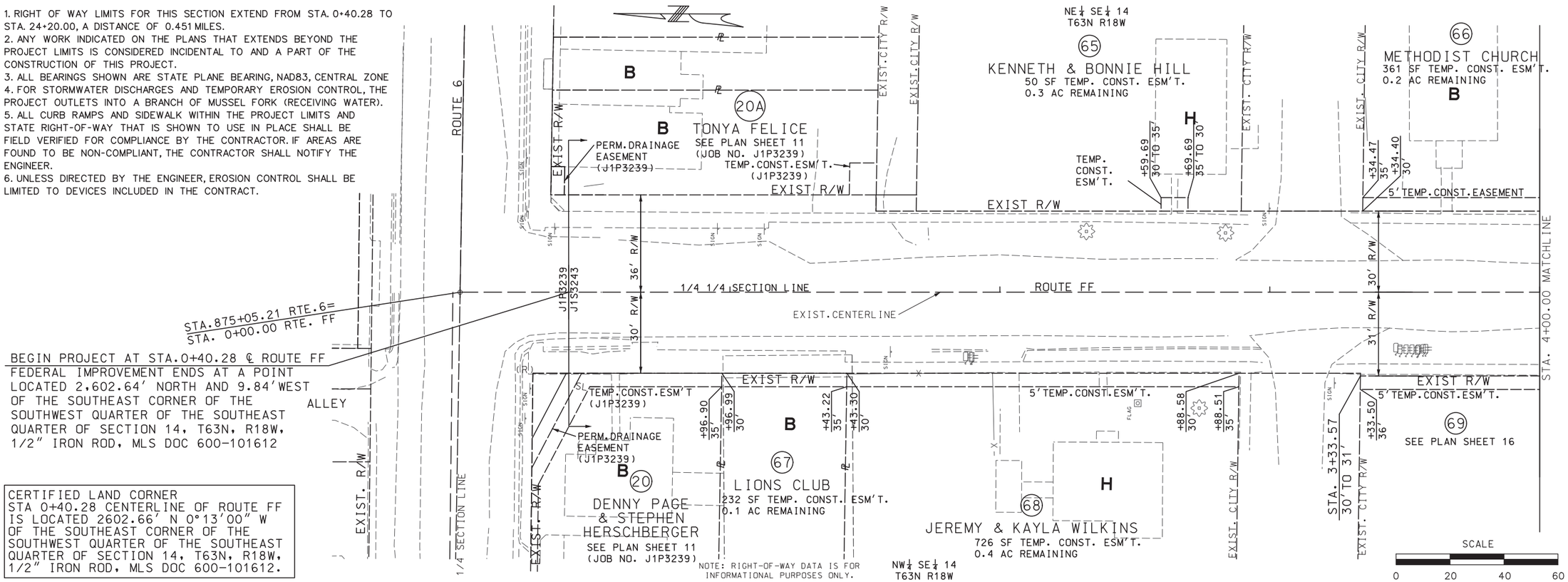
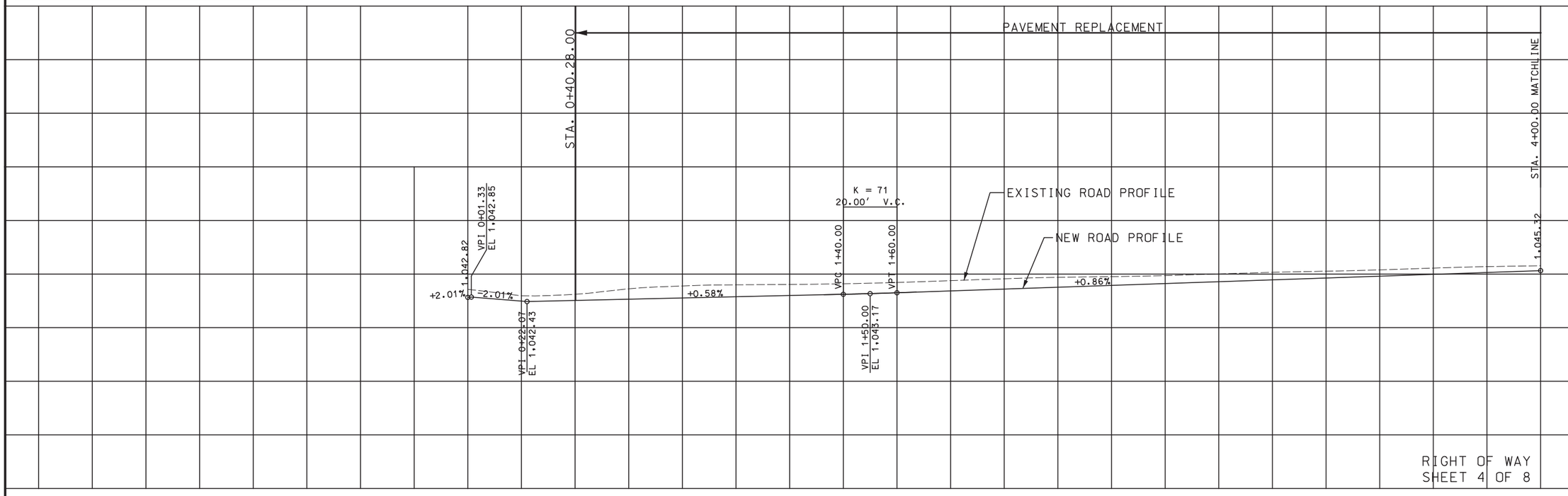



RIGHT OF WAY
SHEET 4 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 15 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

(70)
RANDALL K. & KATHLEEN K. HATCHER
1,308 SF TEMP.CONST.ESM'T.
0.2 AC REMAINING

NE¼ SE¼ 14
T63N R18W

(72A)
ERVAN R. & TERESA G. DOLAN
423 SF TEMP.CONST.ESM'T.
12.15 AC REMAINING

(72)
RONALD E. & KARLA K. MORLAN
938 SF TEMP.CONST.ESM'T.
1.1 AC REMAINING

(73)
GRACE BIBLE BAPTIST CHURCH
1513 SF TEMP.CONST.ESM'T.
1.4 AC REMAINING

STA. 4+00.00 MATCHLINE

EXIST R/W

5'TEMP.CONST.EASEMENT

+06.68 35' +06.60 30'
+68.23 30' +68.31 35'
+85.49 35'-40'
+15.49 35'-40'
+25.93 30' +26.02 35'
+41.55 35'-40'
+75.94 30' +76.02 35'
+76.11 40'
+03.36 35'-40'
+37.36 35'-40'

1/4 1/4 SECTION LINE
ROUTE FF
EXIST.CENTERLINE

30'R/W
31'R/W

STA. 9+50.00 MATCHLINE

(69)
TAMMY GORDON
599 SF TEMP.CONST.ESM'T.
0.3 AC REMAINING

(74)
KEVIN BILLINGTON
599 SF TEMP.CONST.ESM'T.
0.3 AC REMAINING

(75)
DONNIE & ANGELA FIELDS
599 SF TEMP.CONST.ESM'T.
0.3 AC REMAINING

(76)
JOHN & JULIA SAYRE
599 SF TEMP.CONST.ESM'T.
0.3 AC REMAINING

(77)
RANDALL L. WALLACE
601 SF TEMP.CONST.ESM'T.
0.3 AC REMAINING

+53.38 36' +53.42 31'
+73.27 31' +73.18 36'
+18.19 36' +18.28 31'
+38.04 36' +38.13 31'
+57.89 36' +57.98 31'
+02.90 36' +02.98 31'
5' TEMP. CONST. EASEMENT

EXIST. CITY R/W

NOTE: RIGHT-OF-WAY DATA IS FOR INFORMATIONAL PURPOSES ONLY.

NW¼ SE¼ 14
T63N R18W

SCALE
0 20 40 60

STA. 4+00.00 MATCHLINE
STA. 4+95.00
STA. 9+50.00 MATCHLINE

PAVEMENT REPLACEMENT
ASPHALT OVERLAY AND CROWN CORRECTION

NEW ROAD PROFILE
EXISTING ROAD PROFILE

1,045.32
+0.86%
VPC 4+83.00
VPI 4+88.00
EL 1,046.07
VPT 4+93.00
EL 1,046.12
-0.72%
100.00' V.C.
K = 72

RIGHT OF WAY
SHEET 5 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

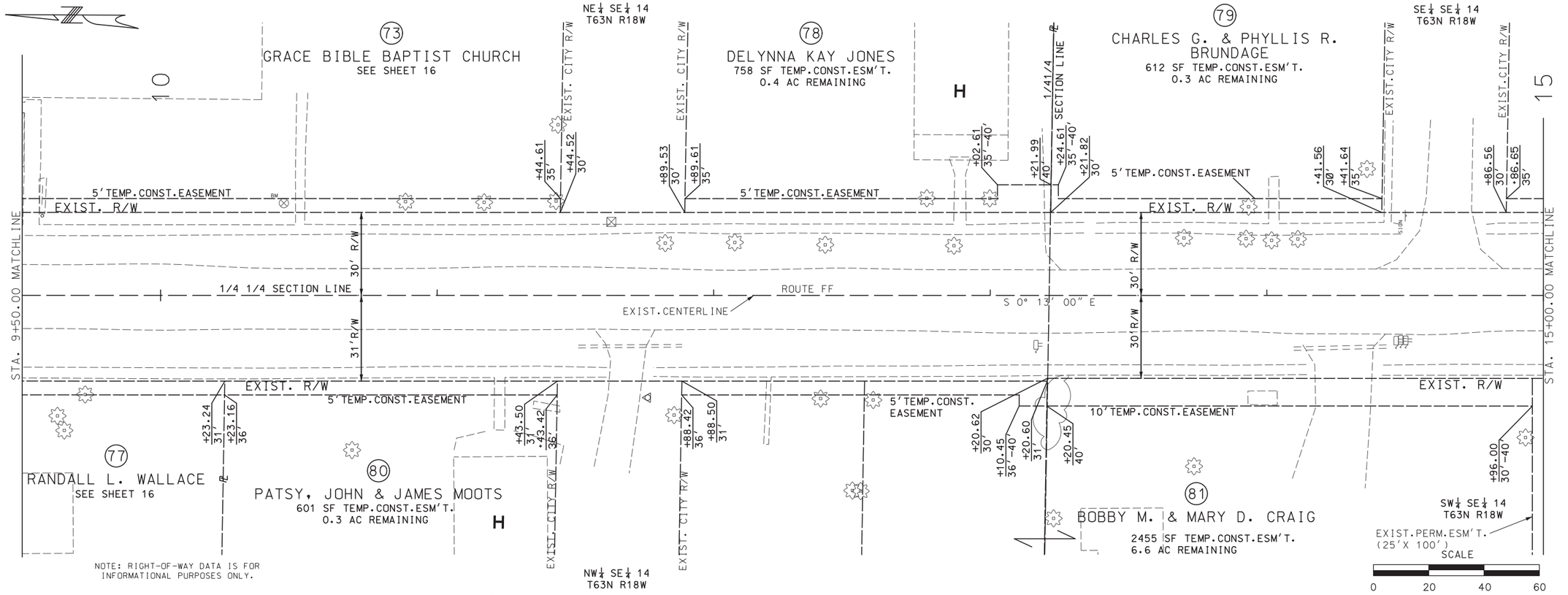
DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 16
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE | DESCRIPTION

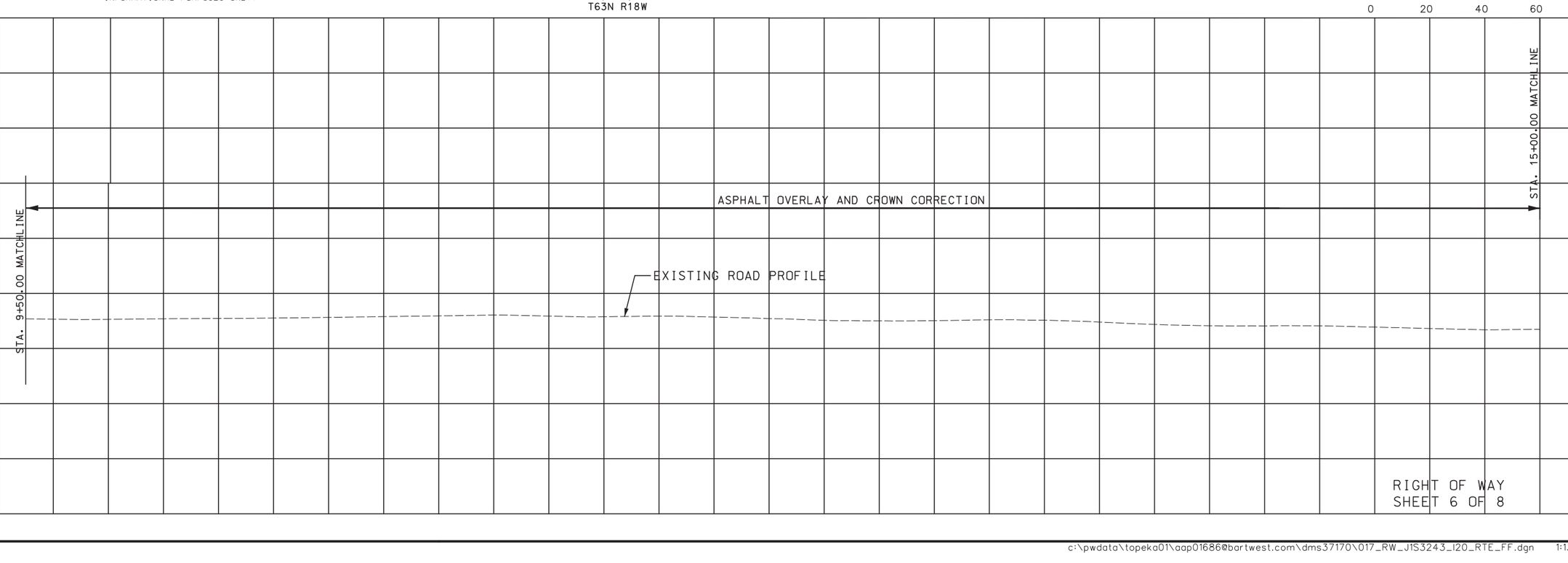
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




NOTE: RIGHT-OF-WAY DATA IS FOR INFORMATIONAL PURPOSES ONLY.




RIGHT OF WAY
SHEET 6 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 17
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE | DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

15

(82) BOBBY M. & MARY D. CRAIG
902 SF TEMP.CONST.ESM'T.
0.5 AC REMAINING

(83) MARK SNYDER
301 SF TEMP.CONST.ESM'T.
0.2 AC REMAINING

SE¼ SE¼ 14
T63N R18W

(84) STACEY & KAREN TUCKER
1200 SF TEMP.CONST.ESM'T.
0.7 AC REMAINING

20

EXIST. CITY R/W

GREEN ST.

SNYDER ST.

+66.97 30'
+67.06 35'
+27.20 35'
+27.11 30'
+72.20 35'
+72.12 30'
+12.16 30'
+12.24 35'

5' TEMP. CONST. EASEMENT

EXIST R/W

STA. 15+00.00 MATCHLINE

STA. 20+50.00 MATCHLINE

1/4 1/4 SECTION LINE

ROUTE FF

EXIST. CENTERLINE

60' R/W

+20.62 30'
+21.00 35'-30'
+15.07 35' TO 40'
+37.07 35' TO 40'
+25.51 30'
+25.42 35'
+11.10 35'-40'
+30.45 30'
+30.28 40'
+42.10 35'-40'
+16.30 35'-40'
+36.30 35'-40'

(85) GARY L. & MARILYN J. POWELL
1132 SF TEMP.CONST.ESM'T.
2.1 AC REMAINING

(86) DANIEL DILE
621 SF TEMP.CONST.ESM'T.
1.2 AC REMAINING

(87) JAMES H. & JENNIE L. RIDENHOUR
1576 SF TEMP.CONST.ESM'T.
3.3 AC REMAINING

EXISTING 25'X100' PERMANENT DRAINAGE EASEMENT

SEE SHEET FOR DITCH GRADING DETAILS

NOTE: RIGHT-OF-WAY DATA IS FOR INFORMATIONAL PURPOSES ONLY.

SW¼ SE¼ 14
T63N R18W

SCALE
0 20 40 60

ASPHALT OVERLAY AND CROWN CORRECTION

EXISTING ROAD PROFILE

RIGHT OF WAY
SHEET 7 OF 8

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 18 |

COUNTY
SULLIVAN

JOB NO.
J1S3243

CONTRACT ID.

PROJECT NO.

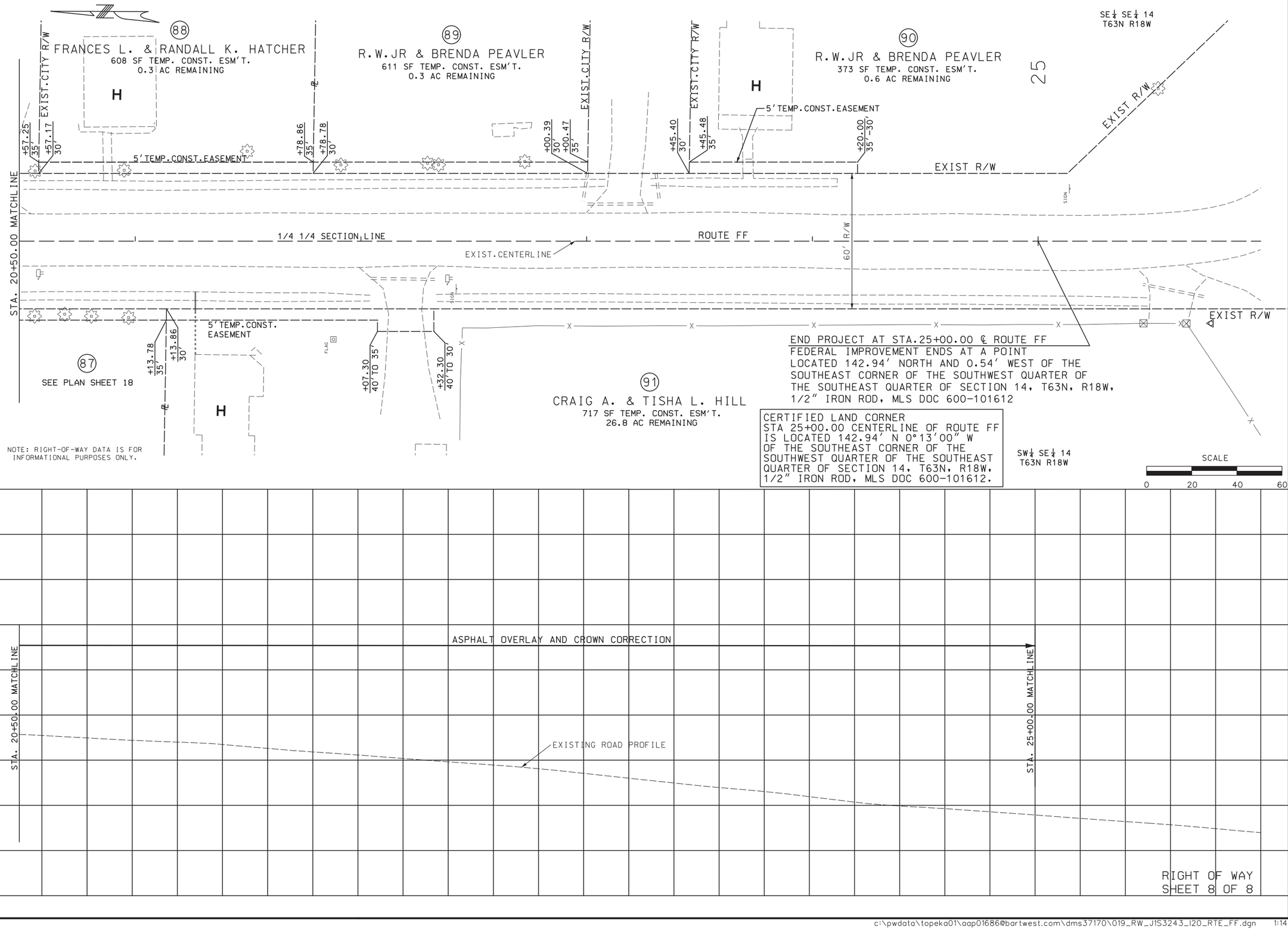
BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 19 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DATE | DESCRIPTION |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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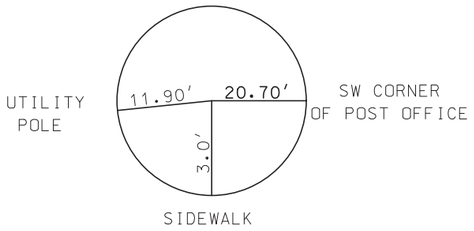
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

# Coordinate Point Listing
# Missouri Coordinate System of 1983 (State Plane)
# Reference Points




CP #1
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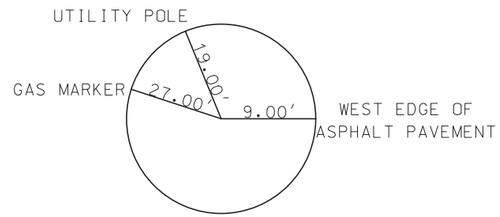
N: 1613096.1573
E: 1534908.6686
ELEV.1045.743




CP #2
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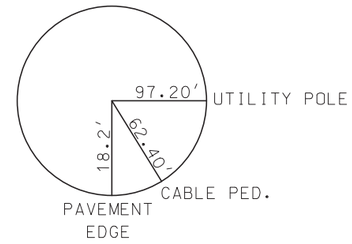
ELEV.1041.00

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E: 1533504.4738
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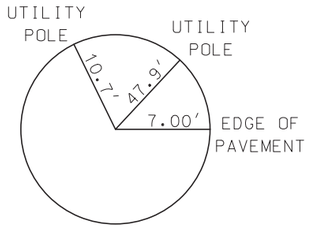


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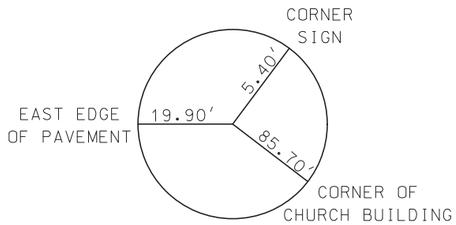


CP #5
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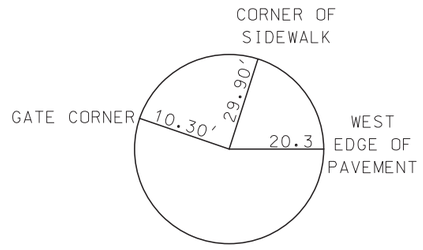


CP #6
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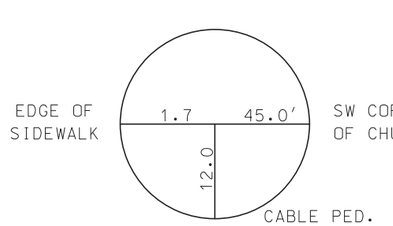
ELEV.1035.591




NGS GREENCASTLE

N: 1612024.2825
E: 1534780.4747
ELEV.1048.121

MISSOURI STATE PLANE CENTRAL ZONE, NAVD 88
COORDINATES LISTED ARE MODIFIED (GROUND) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009858 = MODIFIED (GROUND) COORDINATES

REFERENCE POINTS
SHEET 1 OF 1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 20
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

# Coordinate Point Listing
# Missouri Coordinate System of 1983

| COORDINATES FOR ROUTE D CENTERLINE | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | MODIFIED STATE PLANE | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| 99 | 0+00 | 1,612,900.9664 | 1,534,728.2424 | 1,613,059.9662 | 1,534,879.5359 | CHAIN: EXRTE D | POT |
| 100 | 12+00.00 | 1,614,100.8403 | 1,534,723.9018 | 1,614,259.9584 | 1,534,875.1949 | CHAIN: EXRTE D | POT |
| | | | | | | | |
| | | | | | | | |

| COORDINATES FOR ROUTE FF | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| 103 | 0+00 | 1,612,902.6242 | 1,534,598.4758 | 1,613,061.6241 | 1,534,749.7565 | CHAIN: EXRTE FF | POT |
| 104 | 26+42.94 | 1,610,259.9636 | 1,534,608.4713 | 1,610,418.7030 | 1,534,759.7530 | CHAIN: EXRTE FF | POT |
| | | | | | | | |

MISSOURI STATE PLANE - NAD 83 (2011)CENTRAL ZONE - NAVD 88
COORDINATES LISTED ARE MODIFIED (GROUND) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.00009858 = MODIFIED (GROUND) COORDINATES

COORDINATE POINTS
SHEET 1 OF 1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

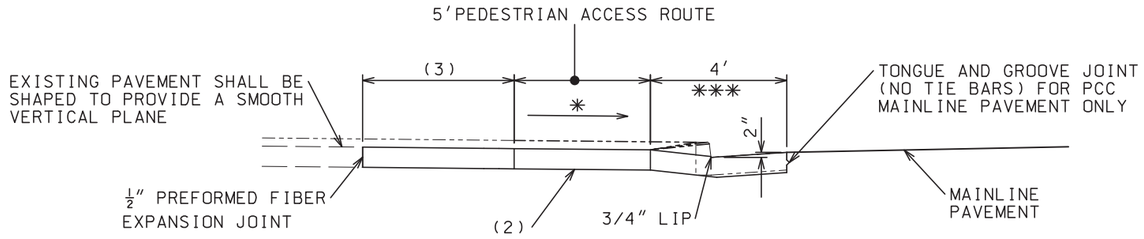
DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 21
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

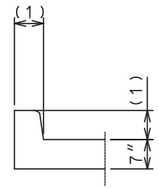
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM



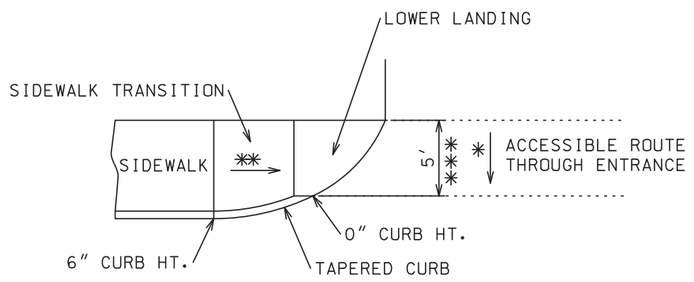

SECTION A–A



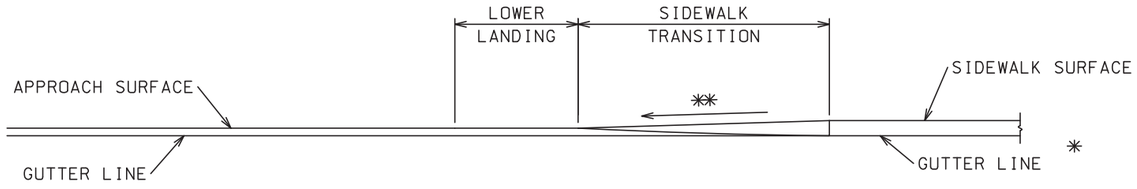

TYPE B
(BARRIER)

SECTION B–B

NOTE: THE CROSS SLOPE OF SIDEWALKS, LANDINGS, AND ACCESSIBLE ROUTE THROUGH THE PAVED APPROACHES SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).




DETAIL A



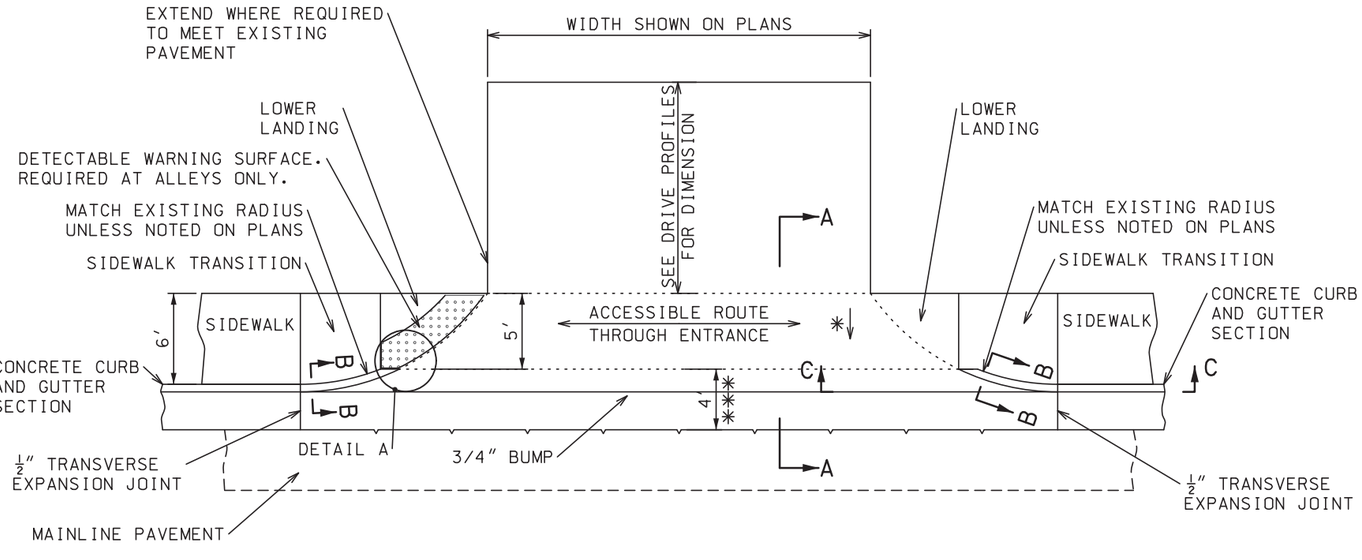

SECTION C–C

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

*** NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. HOWEVER, EXISTING DRIVEWAYS WITH STEEPER GRADES MAY REQUIRE A 4′ WIDE PEDESTRIAN ROUTE IN ORDER TO KEEP GRADE BREAKS TO A MINIMUM. REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 8″ NRCCP – FOR ALLEY OR COMMERCIAL APPROACHES.
7″ NRCCP – FOR RESIDENTIAL APPROACHES.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.




PLAN OF ALLEYS, COMMERCIAL OR RESIDENTIAL APPROACHES WITH 6′ SIDEWALKS

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

WHERE DRAINAGE IS NOT TO BE CARRIED ACROSS THE PAVED APPROACH, SECTION A–A SHALL BE MODIFIED TO ELIMINATE THE "LIP" AND SHALL BE CROWNED AS DIRECTED BY THE ENGINEER.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP



STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 22
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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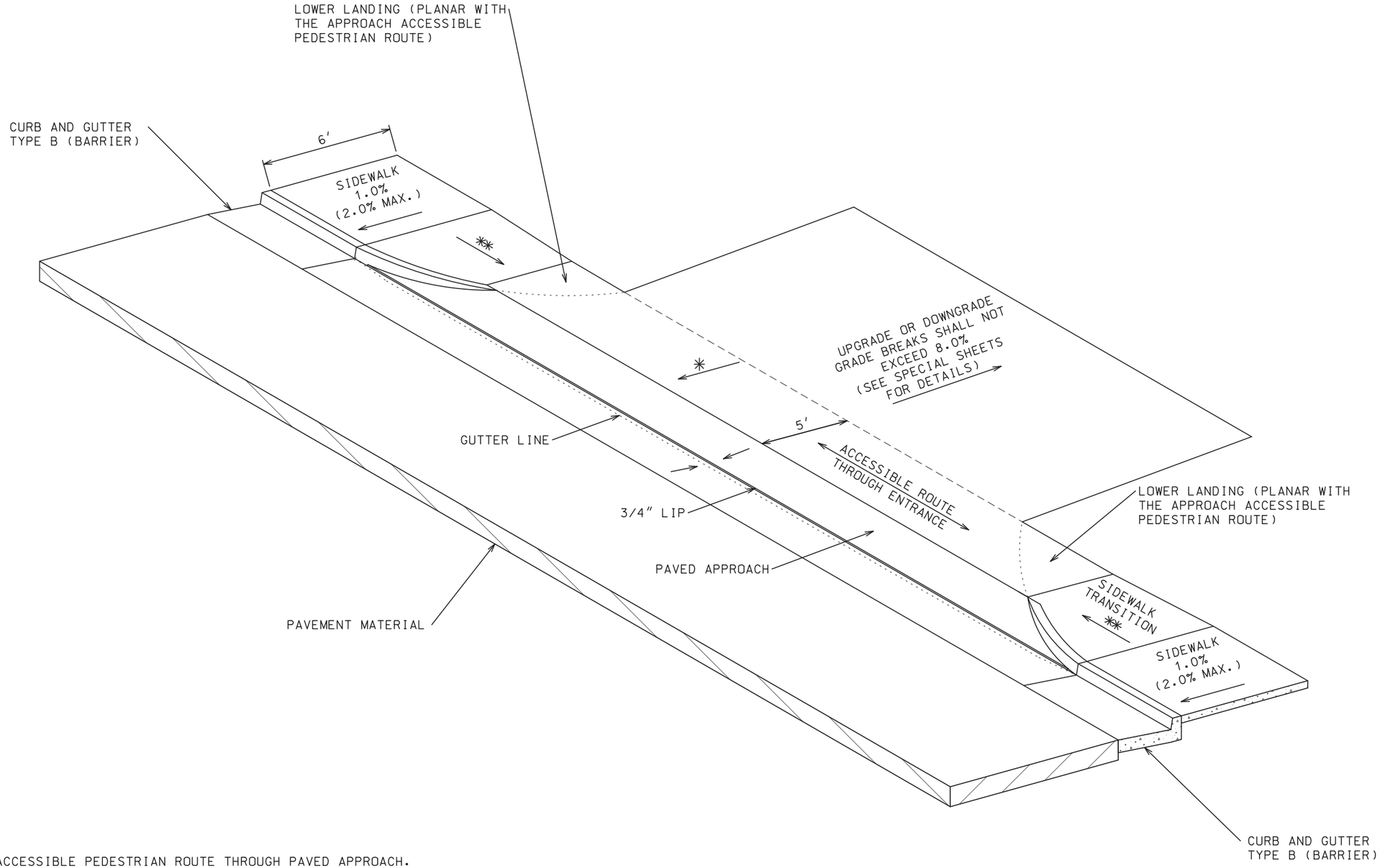


* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.)

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

ISOMETRIC VIEW
COMMERCIAL OR RESIDENTIAL APPROACHES
WITH 6′ SIDEWALKS

APPROACHES
SPECIAL SHEET 2 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 23
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
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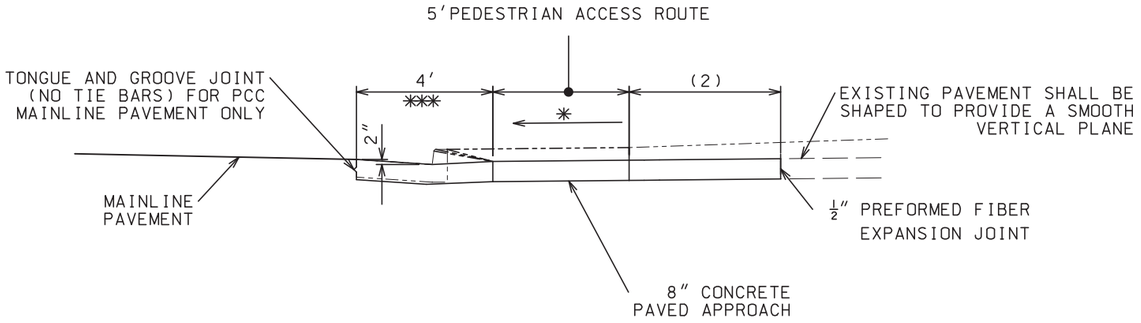
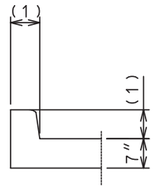
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

c:\pwdata\topeka01\aap01686@bartwest.com\dms37170\023_SS_02_OF_09_J1S3243_I5_ISOMETRIC_VIEW _ENTRANCE.dgn 1:14:09 PM 8/9/2019

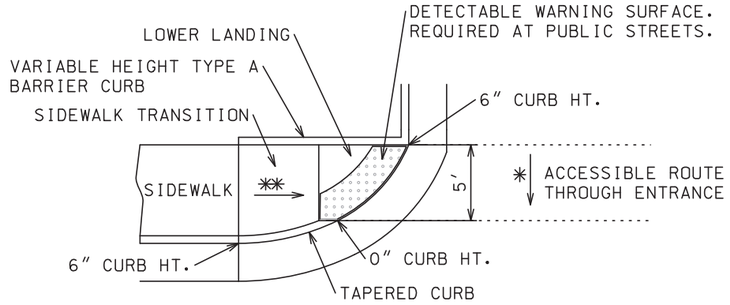



SECTION A–A

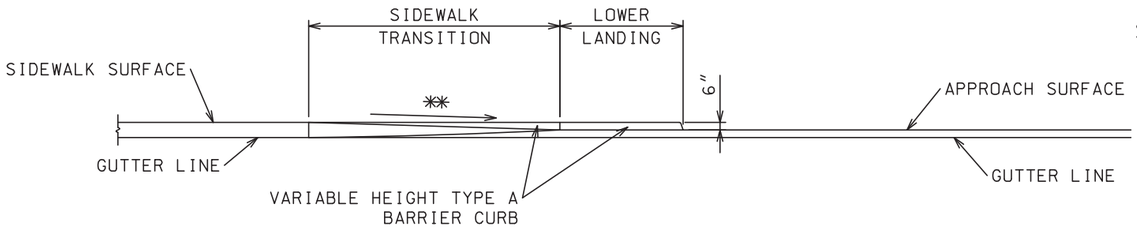



TYPE B (BARRIER)

SECTION B–B




DETAIL A

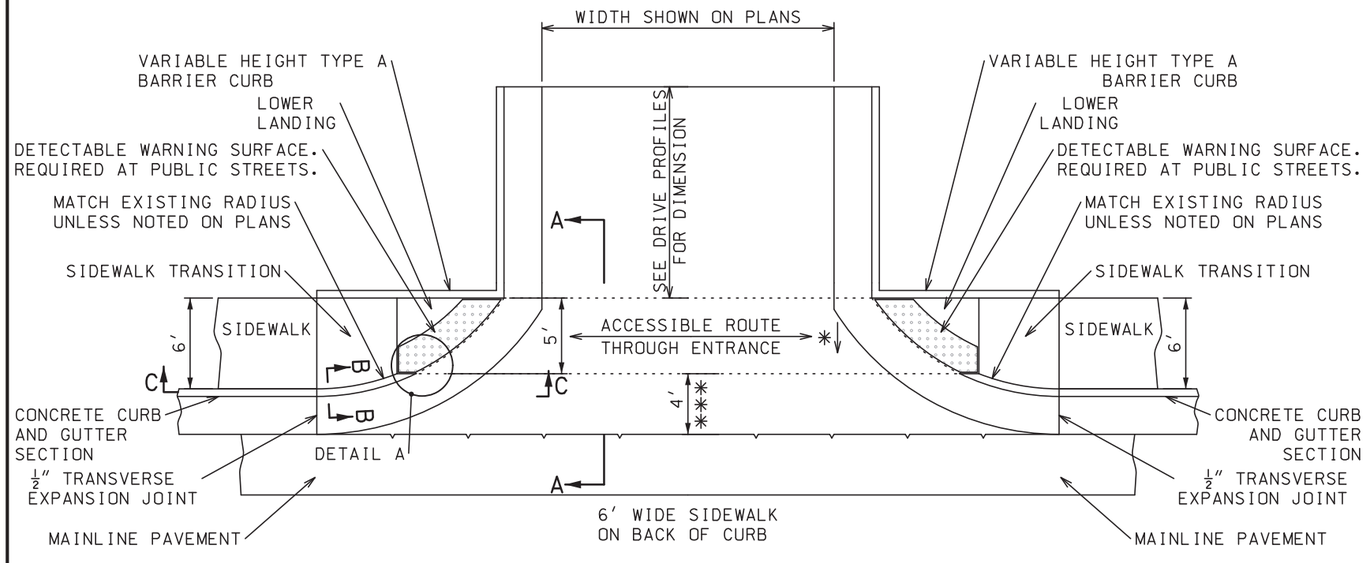



SECTION C–C

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. SEE DRIVEWAY PROFILES FOR DIMENSIONS.




(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

PLAN OF NON–SIGNALIZED SIDE STREET APPROACHES

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP



STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 24 |

COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

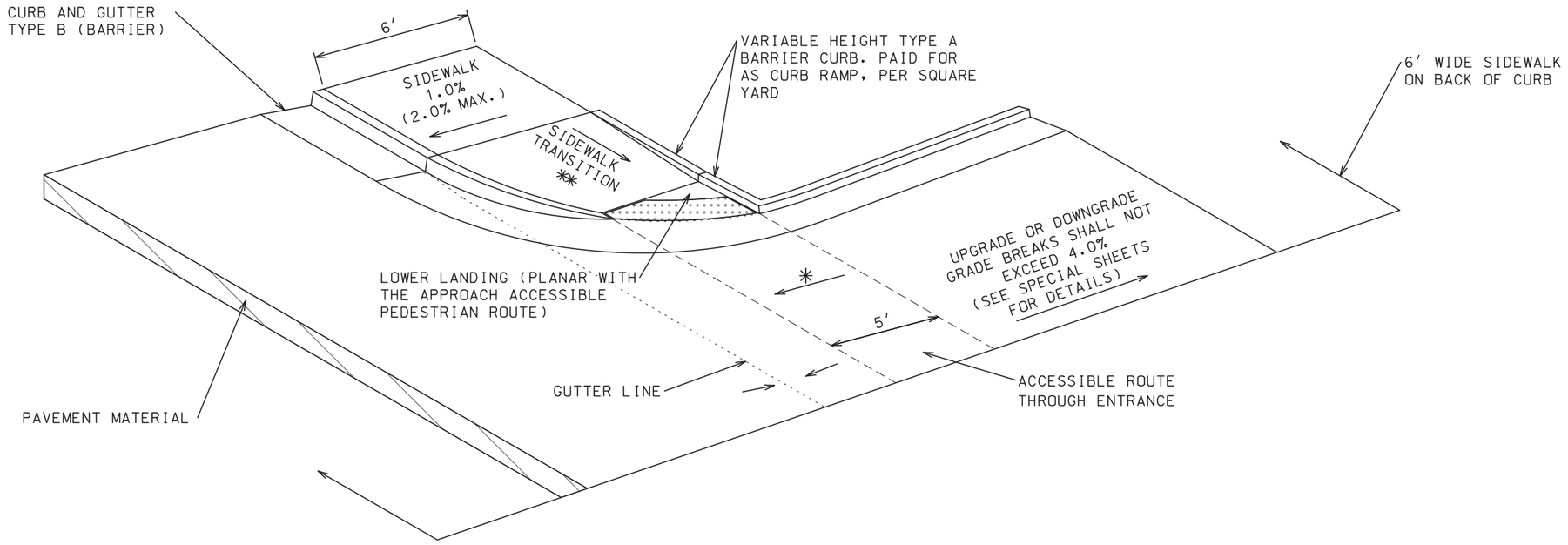
| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

c:\pwdata\topeka01\rdp01616\dms37170\024_SS_03_OF_09_J1S3243_I5_SIDESTREET.dgn 12:05:50 PM 8/12/2019




* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH.
THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE
(2.0% MAX.)

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

ISOMETRIC VIEW
NON-SIGNALIZED SIDE STREET APPROACHES

APPROACHES
SPECIAL SHEET 4 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 25 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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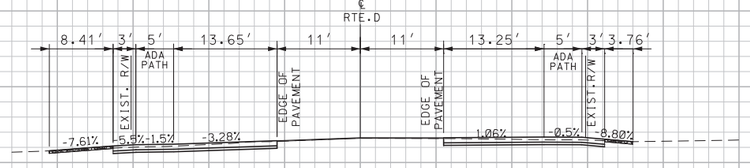
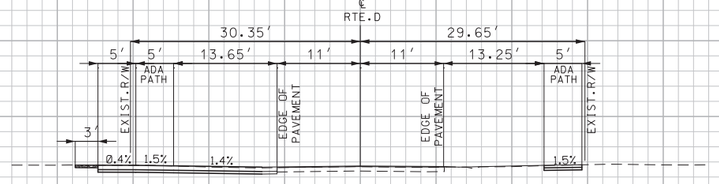
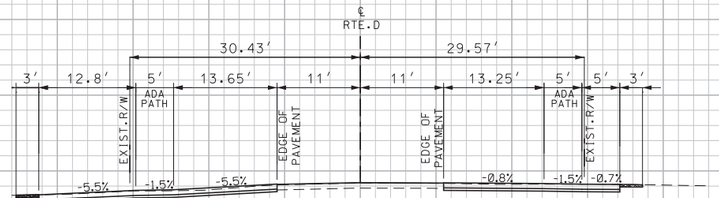


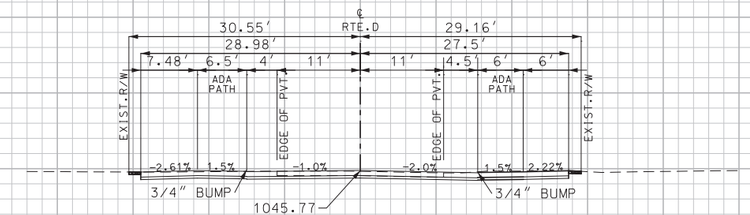

ROUTE D
STA.6+32.80
PAVED APPROACH LT & RT
15″ GROUP B PIPE, LT & RT



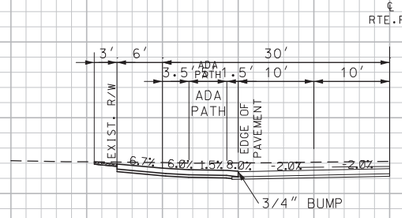

ROUTE D
STA.4+77.85
PAVED APPROACH LT & RT
15″ GROUP B PIPE, LT



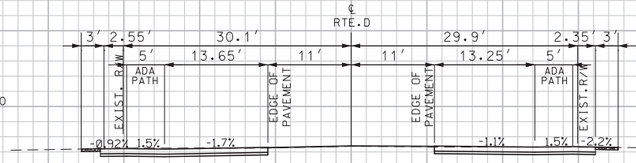

ROUTE D
STA.3+24.40
PAVED APPROACH LT & RT
15″ GROUP B PIPE, LT



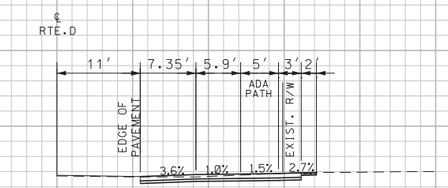

ROUTE D
STA.1+62.69
PAVED APPROACH LT & RT
NO PIPE



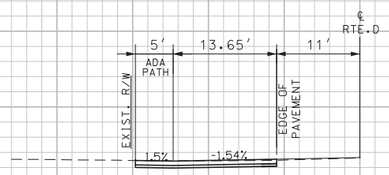

ROUTE FF
STA.1+61.50
PAVED APPROACH LT
NO PIPE




ROUTE D
STA.9+82.73
PAVED APPROACH
LT & RT
NO PIPE




ROUTE D
STA.7+75.20
PAVED APPROACH RT
15″ GROUP B PIPE, RT




ROUTE D
STA.7+20.00
PAVED APPROACH LT
15″ GROUP B PIPE, LT

DRIVEWAY PROFILES
SPECIAL SHEET 5 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/21/2019
ROUTE: D/FF | STATE: MO
DISTRICT: NW | SHEET NO.: 26
COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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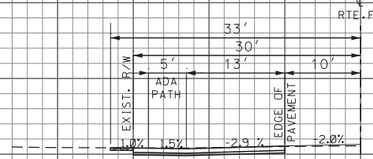
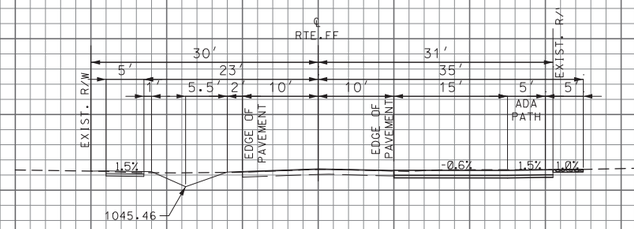
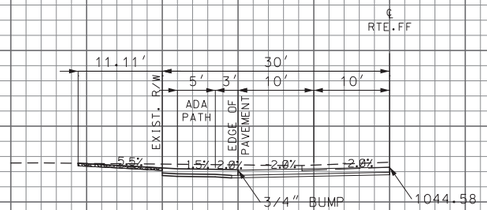
REV.



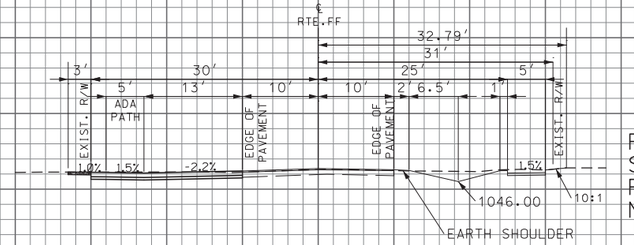

ROUTE FF
STA.5+05.11
PAVED APPROACH LT
NO PIPE



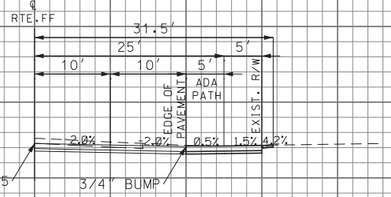

ROUTE FF
STA.8+78.95
PAVED APPROACH RT
NO PIPE



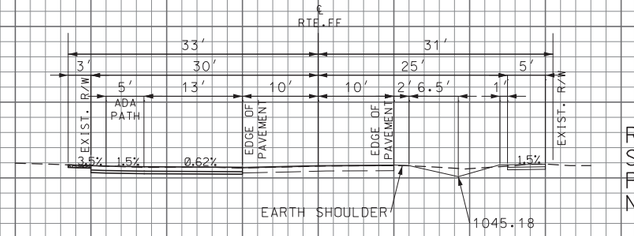

ROUTE FF
STA.3+14.38
PAVED APPROACH LT
NO PIPE



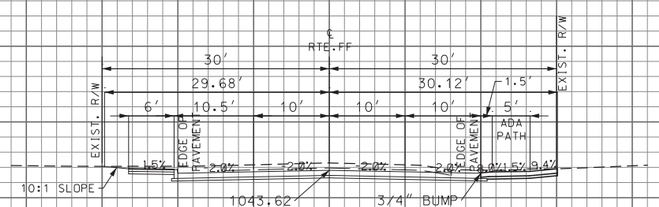

ROUTE FF
STA.8+54.05
PAVED APPROACH LT
NO PIPE



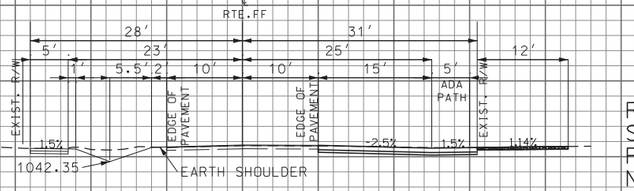

ROUTE FF
STA.3+10.43
PAVED APPROACH RT
NO PIPE




ROUTE FF
STA.7+00.00
PAVED APPROACH LT
NO PIPE




ROUTE FF
STA.2+02.22
PAVED APPROACH RT
NO PIPE




ROUTE FF
STA.5+97.30
PAVED APPROACH RT
NO PIPE

DRIVEWAY PROFILES
SPECIAL SHEET 6 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 27 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

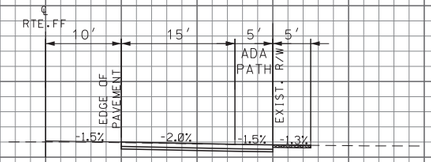
| DATE | DESCRIPTION |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

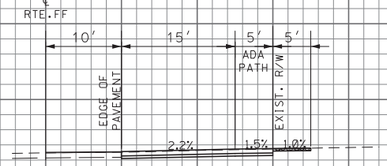
MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

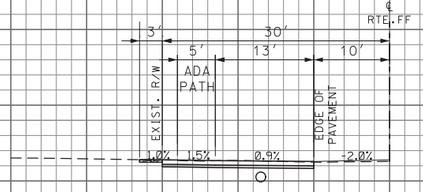
REV.



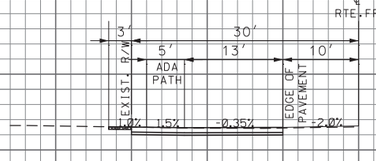

ROUTE FF
STA.14+27.63
PAVED APPROACH RT
NO PIPE



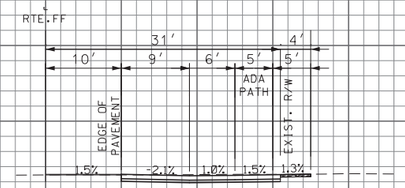

ROUTE FF
STA.18+31.10
PAVED APPROACH RT
NO PIPE



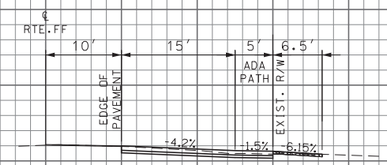

ROUTE FF
STA.13+13.61
PAVED APPROACH LT
NO PIPE



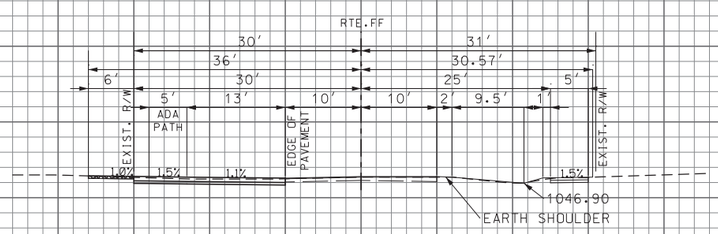

ROUTE FF
STA.17+51.37
PAVED APPROACH LT
NO PIPE



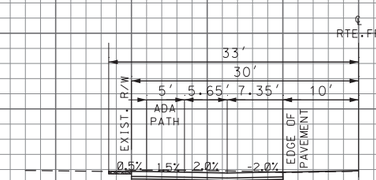

ROUTE FF
STA.11+67.73
PAVED APPROACH RT
NO PIPE




ROUTE FF
STA.16+26.07
PAVED APPROACH RT
NO PIPE




ROUTE FF
STA.9+28.47
PAVED APPROACH LT
NO PIPE




ROUTE FF
STA.14+65.61
PAVED APPROACH LT
NO PIPE

DRIVEWAY PROFILES
SPECIAL SHEET 7 OF 9

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

DATE PREPARED: 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 28 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

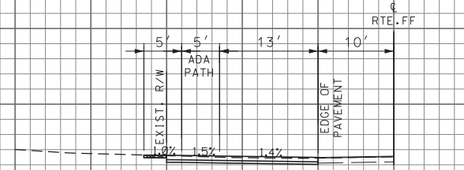
| DATE | DESCRIPTION |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

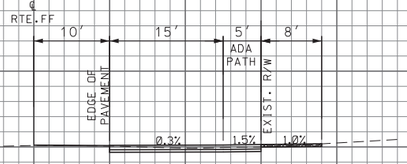
MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

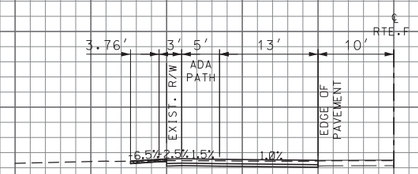
REV.



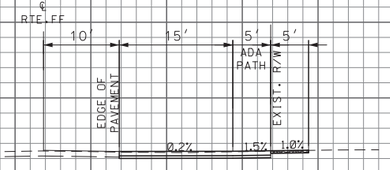

ROUTE FF
STA.23.18.15
PAVED APPROACH LT
NO PIPE




ROUTE FF
STA.22+19.80
PAVED APPROACH RT
NO PIPE




ROUTE FF
STA.20+38.18
PAVED APPROACH LT
NO PIPE




ROUTE FF
STA.20+26.30
PAVED APPROACH RT
NO PIPE

DRIVEWAY PROFILES
SPECIAL SHEET 8 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 29 |

COUNTY
SULLIVAN

JOB NO.
J1S3243

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

REV.

(85)

GARY L. & MARILYN
J. POWELL

SEE SHEET 18 FOR R/W INFORMATION

15

BAILEY ST.

EXIST R/W

5' TEMP. CONST. EASEMENT

EXIST R/W

5' TEMP. CONST. EASEMENT

P-115

P-116

P-114

P-113

EXIST R/W

10' TEMP. CONST. EASEMENT

ALL DISTRUBED AREA SODDED

EXIST. DITCH ℄

+20.62
30'

+20.53
35'

+18.94
130'

+18.10
180'

DND TREE

DND TREES

+96.00
130'

+96.00
180'

EXIST. PERM. ESM'T.
(25' X 100')

DND FENCE

TEMP. CONST. ESM'T.

(81)

BOBBY M. & MARY D. CRAIG
3581 SF TEMP. CONST. ESM'T.
6.6 AC REMAINING

SCALE
0 20 40 60

OUTLET DITCH GRADING
SPECIAL SHEET 9 OF 9

1.5 STA. LINEAR GRADING CLASS 2

PROFILE DETERMINED IN THE FIELD BY THE ENGINEER

FL 1043.61

1050
1040
1030

0 20 40 60 80 100 120 140 160 180 200

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 30 |

COUNTY
SULLIVAN

JOB NO.
J1P3243

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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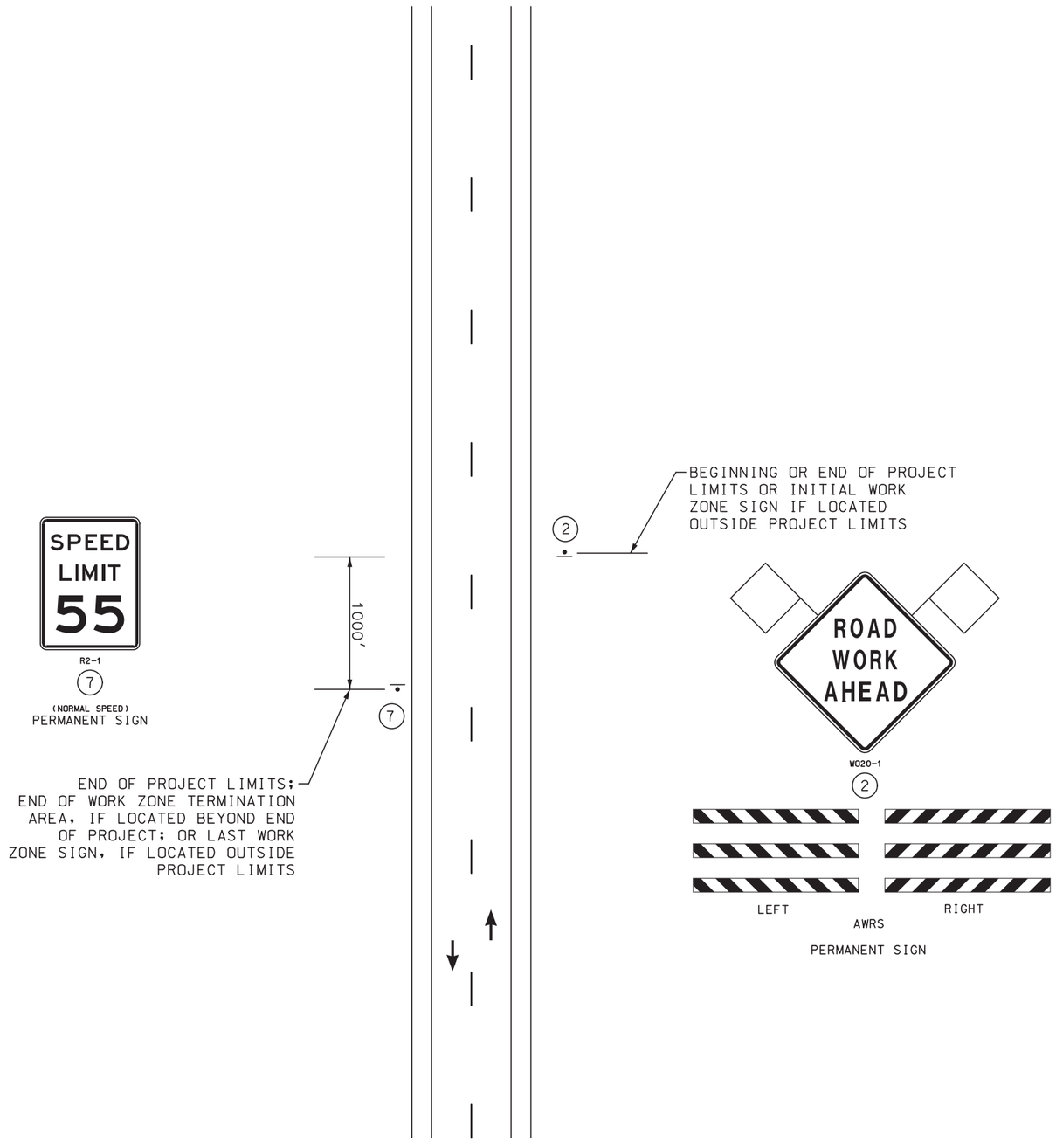
# ROUTE D/FF BEGIN & END OF PROJECT SIGNING




ROUTE D /FF BEGIN & END OF PROJECT SIGNING

## TRAFFIC CONTROL LEGEND

- • SIGN (SINGLE SIDED)
- ■ CHANNELIZER

NOTES:

NO DIRECT PAY WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL
SHEET 1 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 31 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

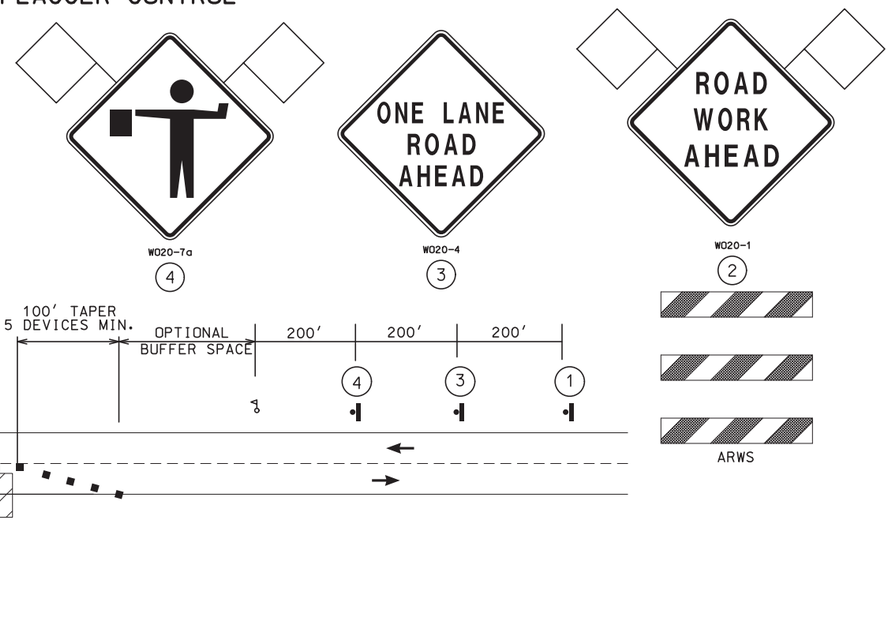

REV.

# LANE CLOSURE – FLAGGER CONTROL

NOTES:
1. THE QUANTITIES FOR TEMPORARY TRAFFIC CONTROL WERE DETERMINED BY ALLOWING ENOUGH DEVICES TO PROVIDE 400′ OF LANE CLOSURE AT ONE TIME.

2. THE ADVANCE WARNING RAIL SYSTEM IS REQUIRED FOR WORK ZONES LASTING 3 DAYS OR MORE ON STATE ROUTES. AWRS IS NOT REQUIRED ON SIDE ROADS OR CITY STREETS.

3. ALL SIGNS FOR THIS PROJECT ARE CONSIDERED PORTABLE AND NO DIRECT PAY WILL BE MADE FOR SIGN RELOCATION.




NOTES:

SIGN (2) NOT NEEDED IF LOCATED WITHIN LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN (2) IS ALREADY USED.

NOT TO SCALE

## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- FLASHING ARROW PANEL
- DIRECTIONAL INDICATOR BARRICADE
- TYPE III MOVEABLE BARRICADE WITH LIGHT

| TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES [2] | | | | |
|---|---|---|---|---|
| SPEED MPH (S) [1] | TAPER LENGTHS (L) FOR LATERAL SHIFTS (W) FT [2] | | CHANNELIZER SPACING [3], FT | |
| | SHOULDER [4] (T1) | LANE [5] (T2) | TAPERS | BUFFER/ WORK AREA |
| UP TO 35 | 70 | 245 | 35 [6] | 40 [6] |
| 40-45 | 150 | 540 | 40 [6] | 80 [6] |
| 50-55 | 185 | 660 | 50 [7] | 80 [7] |
| 60-70 | 235 | 840 | 60 [7] | 120 [7] |

| LONGITUDINAL BUFFER SPACE | |
|---|---|
| POSTED SPEED PRIOR TO CONSTRUCTION, MPH | LENGTH, FT. |
| UP TO 35 | 280 |
| 40-45 | 400 |
| 50-55 | 560 |
| 60-70 | 840 |

| SIGN SPACING FOR ADVANCE SIGN SERIES [8,9] | | |
|---|---|---|
| POSTED SPEED MPH (P) | NON-DIVIDED HIGHWAYS (S) | DIVIDED HIGHWAYS (S) |
| 0-35 | 200 FT | 200 FT |
| 40-45 | 350 FT | 500 FT |
| 50-55 | 500 FT | 1000 FT |
| 60-70 | SA - 1000 FT, SB - 1500 FT AND SC - 2640 FT | |

TAPER LENGTH (L)
L = W X P FOR 40 MPH OR MORE
L = $\frac{WP^2}{60}$ FOR 35 MPH OR LESS
L = TAPER LENGTH IN FEET
W = LATERAL SHIFT IN FEET
P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

1) SPEED LIMIT IS BASED ON POSTED SPEED LIMIT.
2) TAPER LENGTHS MAY BE ADJUSTED TO ACCOMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
3) CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
4) BASED ON 10 FT. SHOULDER WIDTH.
5) BASED ON 12 FT. LANE WIDTH.
6) SPACING REDUCED TO 1/2 AT INTERSECTIONS.
7) SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.
8) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
9) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TRAFFIC CONTROL
SHEET 2 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 32
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

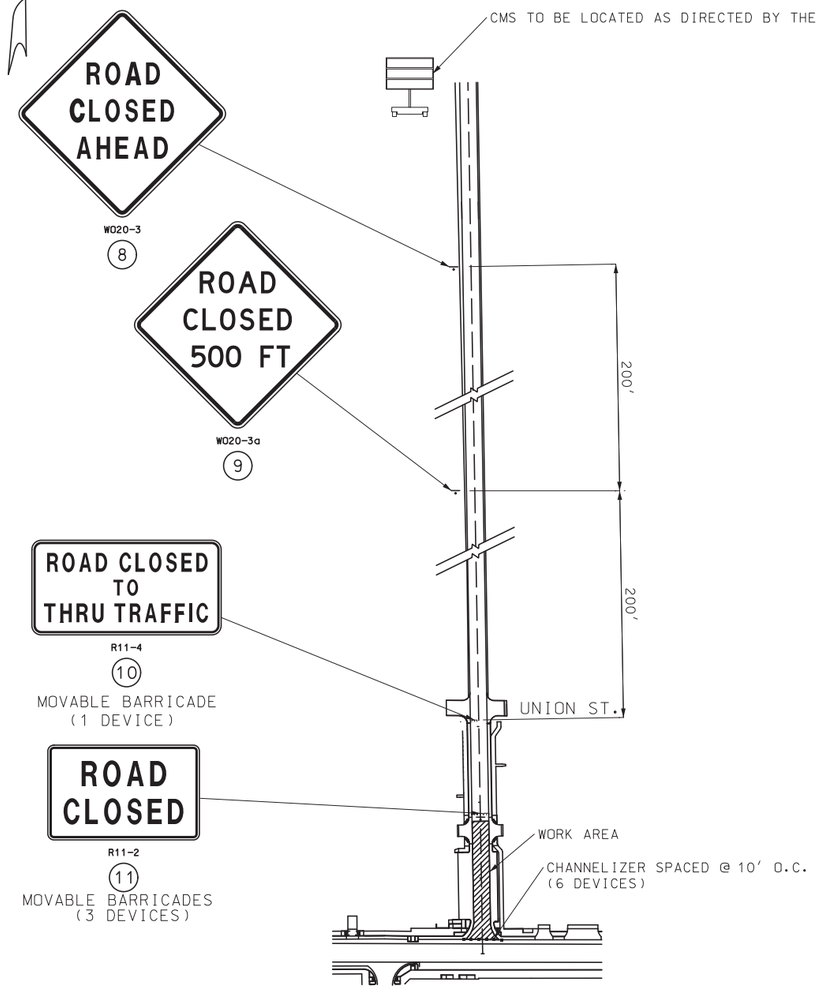
| REV. | DESCRIPTION | DATE |
|---|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

## ROUTE D – ROAD CLOSURE
## PAVEMENT REPLACEMENT




NOTES:

NO DIRECT PAY WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

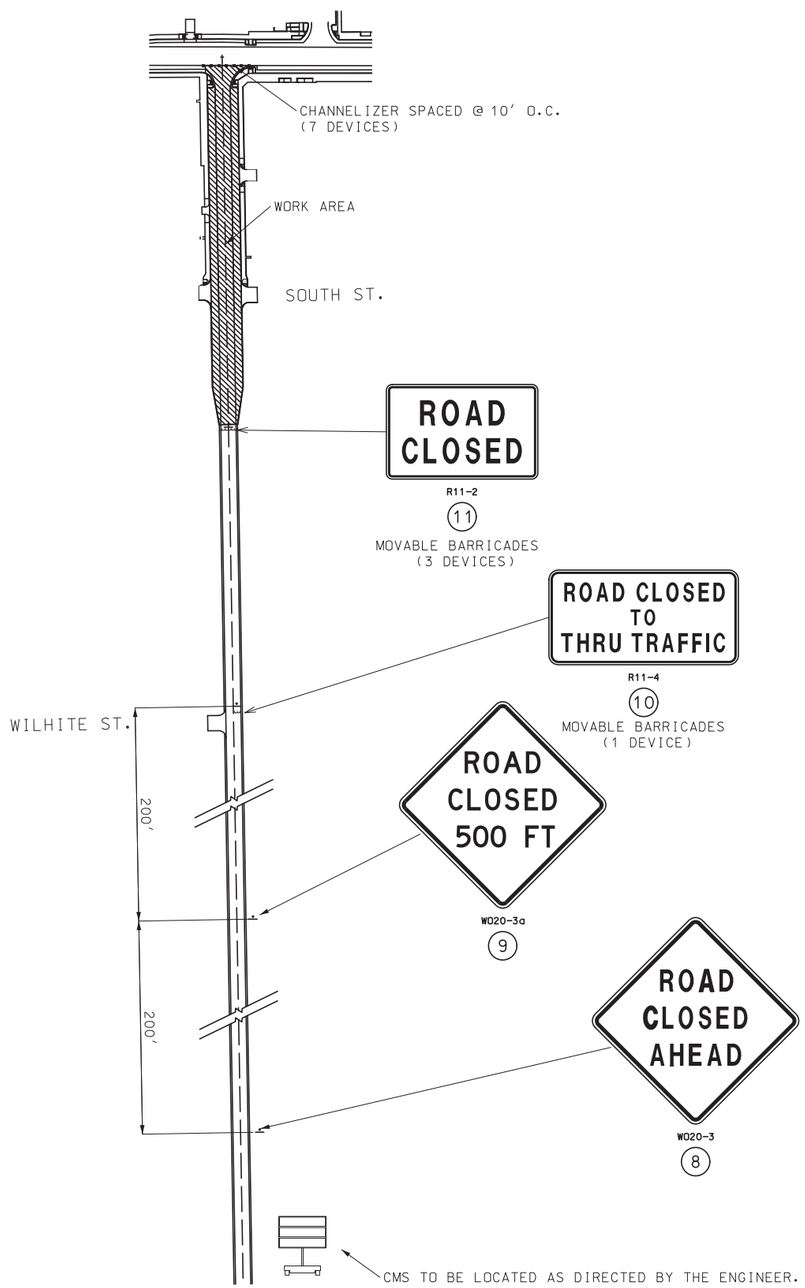
ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.

NOT TO SCALE

### TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- – WORK AREA

## ROUTE FF – ROAD CLOSURE
## PAVEMENT REPLACEMENT




NOT TO SCALE

TRAFFIC CONTROL PLAN
SHEET 3 OF 7

STATE OF MISSOURI
HERBERT R BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/9/2019
ROUTE: D/FF | STATE: MO
DISTRICT: NW | SHEET NO.: 33
COUNTY: SULLIVAN
JOB NO.: J1P3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| REV. | DESCRIPTION | DATE |
|---|---|---|

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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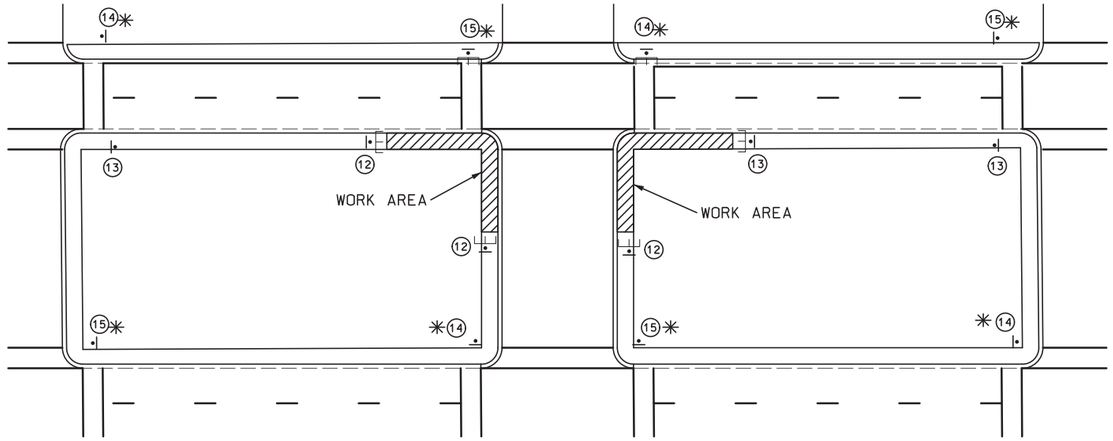
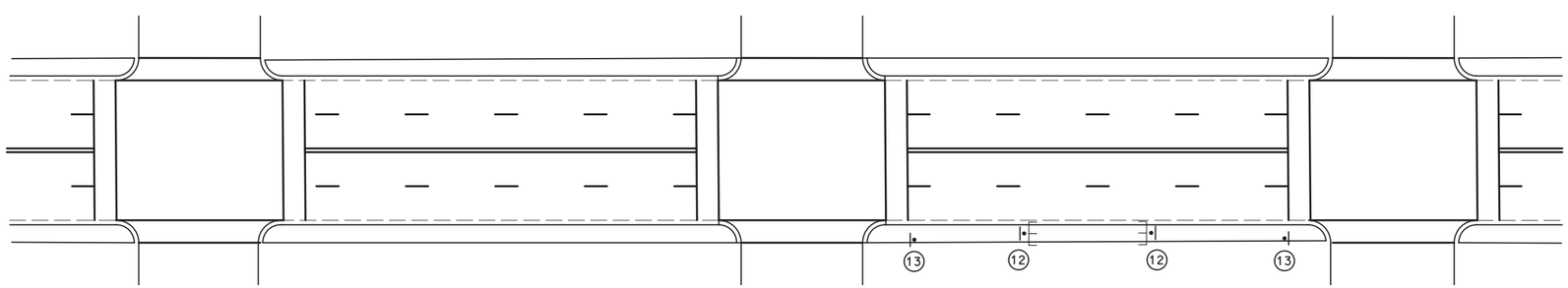
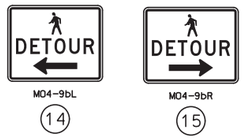
## CROSSWALK CLOSURE AND PEDESTRIAN DETOUR




✳ – PEDESTRIAN DETOUR SIGNS TO DIRECT PEDESTRIANS TO SHORTEST/SAFEST PATH
DUPLICATE SIGNED DETOURS ARE NOT REQUIRED UNLESS DIRECTED BY THE ENGINEER

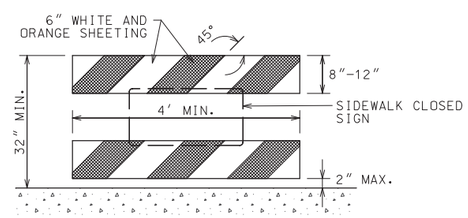
## SIDEWALK DETOUR AND PEDESTRIAN DETOUR





GENERAL NOTES:

1. SIGN SHOULD BE PLACED AT NEAREST INTERSECTION STATING SIDEWALK CLOSED.
2. ALL BUSINESSES SHOULD STILL REMAIN ACCESSIBLE BY ANOTHER ENTRANCE.
3. MAX DISTANCE BETWEEN CHANNELIZERS IN TAPER ARE 35′.
4. MAX DISTANCE BETWEEN CHANNELIZERS IN WORK ZONE ARE 50′
4. ALL SIGNS MAYBE BE RELOCATED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.




INSTALL DETECTABLE PEDESTRIAN CHANNELIZING BARRICADES AND SIDEWALK CLOSED SIGNS AS DIRECTED BY THE ENGINEER.

WHERE CHANNELIZING DEVICES ARE USED TO CHANNELIZE PEDESTRIANS, THERE SHALL BE CONTINUOUS DETECTABLE BOTTOM AND TOP SURFACES TO BE DETECTABLE TO USERS OF LONG CANES.

**DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE**

NOT TO SCALE

### TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- CHANGEABLE MESSAGE BOARD
- DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

TRAFFIC CONTROL PLAN
SHEET 4 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 34
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

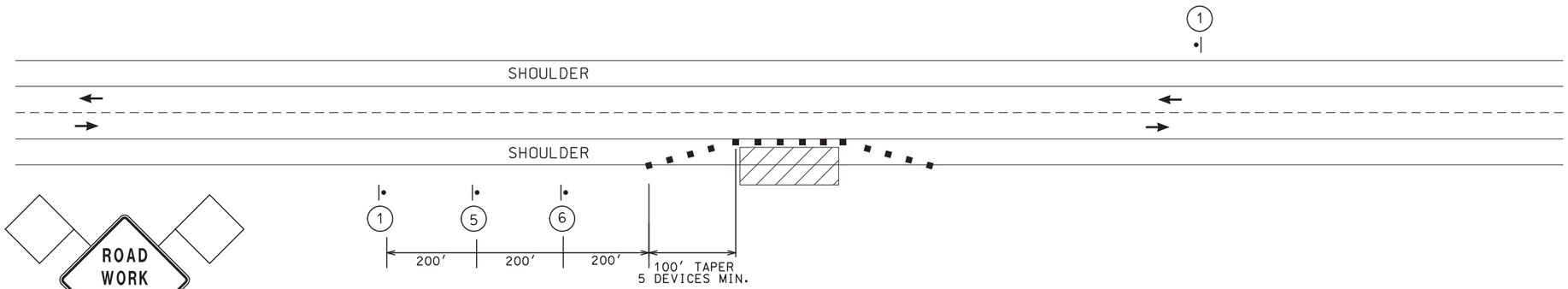
DESCRIPTION | DATE

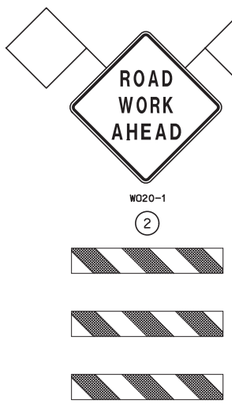
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

# TRAFFIC CONTROL PLAN FOR CONSTRUCTION BEYOND SHOULDER



NOTES:

SIGN (1) NOT NEEDED IF LOCATED WITHIN LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN (1) IS ALREADY USED.

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- FLASHING ARROW PANEL
- DIRECTIONAL INDICATOR BARRICADE
- TYPE III MOVEABLE BARRICADE WITH LIGHT

✳ – THE ADVANCE WARNING RAIL SYSTEM IS REQUIRED FOR WORK ZONES LASTING 3 DAYS OR MORE ON STATE ROUTES. AWRS IS NOT REQUIRED ON SIDE ROADS OR CITY STREETS.

| TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES [2] | | | | |
|---|---|---|---|---|
| SPEED MPH (S) [1] | TAPER LENGTHS (L) FOR LATERAL SHIFTS (W) FT [2] | | CHANNELIZER SPACING [3], FT | |
| | SHOULDER [4] (T1) | LANE [5] (T2) | TAPERS | BUFFER/ WORK AREA |
| UP TO 35 | 70 | 245 | 35 [6] | 40 [6] |
| 40-45 | 150 | 540 | 40 [6] | 80 [6] |
| 50-55 | 185 | 660 | 50 [7] | 80 [7] |
| 60-70 | 235 | 840 | 60 [7] | 120 [7] |

| LONGITUDINAL BUFFER SPACE | |
|---|---|
| POSTED SPEED PRIOR TO CONSTRUCTION, MPH | LENGTH, FT. |
| UP TO 35 | 280 |
| 40-45 | 400 |
| 50-55 | 560 |
| 60-70 | 840 |

| SIGN SPACING FOR ADVANCE SIGN SERIES [8, 9] | | |
|---|---|---|
| POSTED SPEED MPH (P) | NON-DIVIDED HIGHWAYS (S) | DIVIDED HIGHWAYS (S) |
| 0-35 | 200 FT | 200 FT |
| 40-45 | 350 FT | 500 FT |
| 50-55 | 500 FT | 1000 FT |
| 60-70 | SA - 1000 FT, SB - 1500 FT AND SC - 2640 FT | |

TAPER LENGTH (L)

L = W X P FOR 40 MPH OR MORE

$L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

1) SPEED LIMIT IS BASED ON POSTED SPEED LIMIT.
2) TAPER LENGTHS MAY BE ADJUSTED TO ACCOMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
3) CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
4) BASED ON 10 FT. SHOULDER WIDTH.
5) BASED ON 12 FT. LANE WIDTH.
6) SPACING REDUCED TO 1/2 AT INTERSECTIONS.
7) SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.
8) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
9) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TRAFFIC CONTROL PLAN
SHEET 5 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 35 |

COUNTY: SULLIVAN

JOB NO.: J1S3243

CONTRACT ID.:

PROJECT NO.:

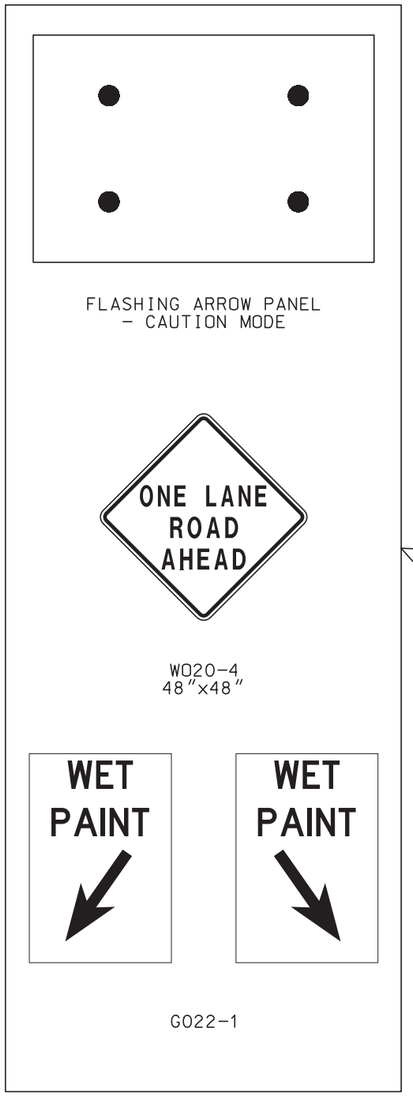
BRIDGE NO.:

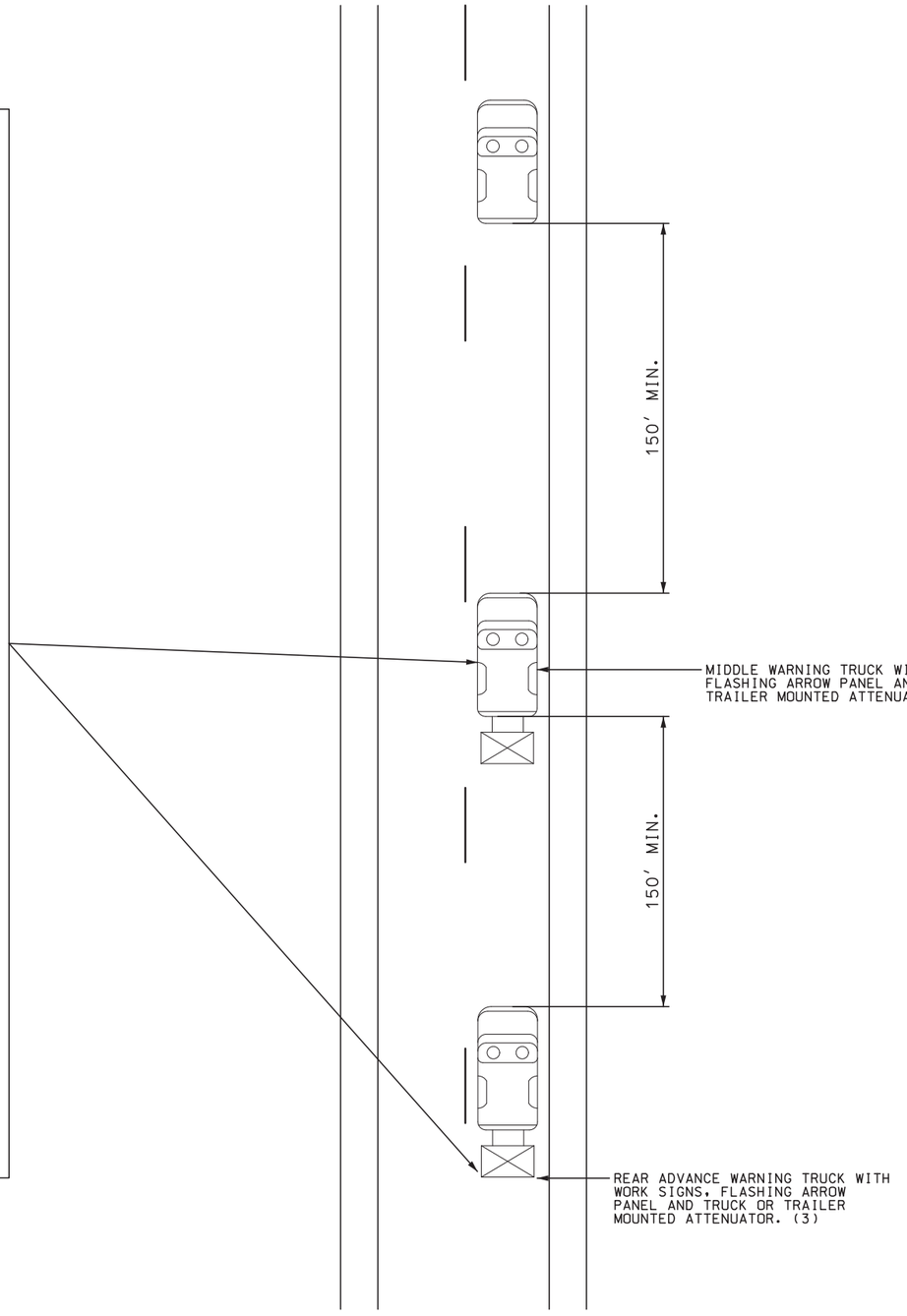
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROPE LIGHTS.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

CENTER LINE/EDGE LINE STRIPING ON TWO-LANE HIGHWAYS

NOT TO SCALE

TRAFFIC CONTROL PLAN
SHEET 6 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 36 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

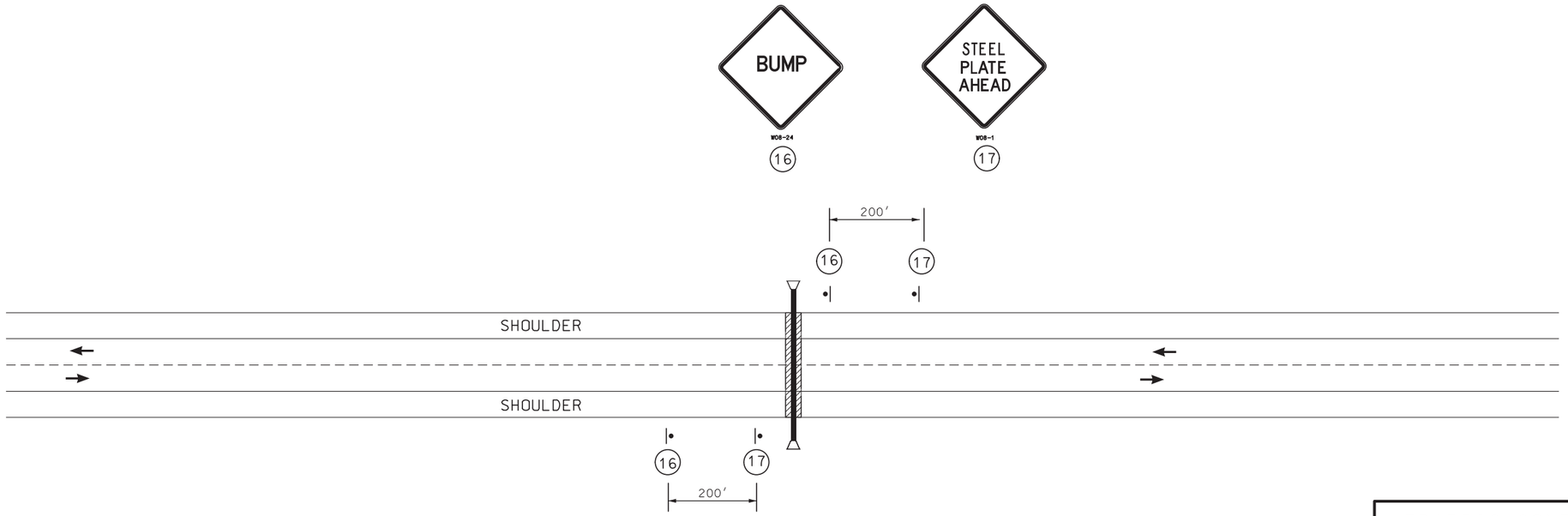
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

REV.

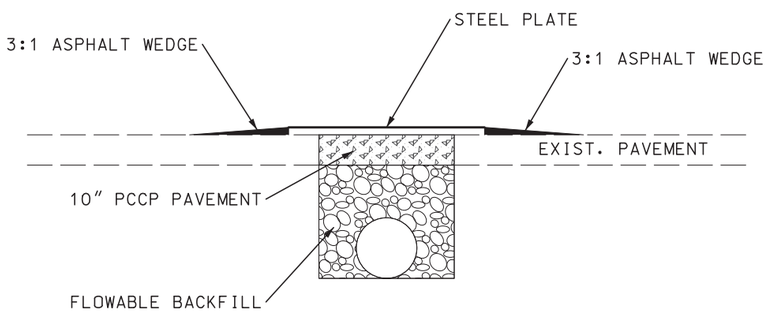
# TRAFFIC CONTROL PLAN FOR CROSS ROAD CULVERT INSTALLATION
# (OPEN TO NORMAL TRAFFIC)




NOT TO SCALE

## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- FLASHING ARROW PANEL
- DIRECTIONAL INDICATOR BARRICADE
- TYPE III MOVEABLE BARRICADE WITH LIGHT




TYPICAL CULVERT INSTALLATION

GENERAL NOTES:

1. PERIMETER OF STEEL PLATE SHALL HAVE A GRADUAL TRANSTION OF 1V:3H. THE GRADUAL TRANSITION MAY BE ACCOMPLISHED BY ASPHALT WEDGING OR A MECHANICAL FASTNER APPROVED BY THE ENGINEER.THE PLATE SHALL HAVE DELINEATION AND TREATED FOR SKID RESISTANCE.

2. STEEL PLATE SHALL REMAIN IN PLACE UNTIL PCCP PAVEMENT HAS REACHED 3000 PSI.

3. THE TOP OF FLOWABLE BACKFILL WILL BE COVERED WITH A FABRIC OR COATING TO PROVIDE BOND BREAKER BETWEEN THE BACKFILL AND PAVEMENT.

TRAFFIC CONTROL PLAN
SHEET 7 OF 7

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/12/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 37 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

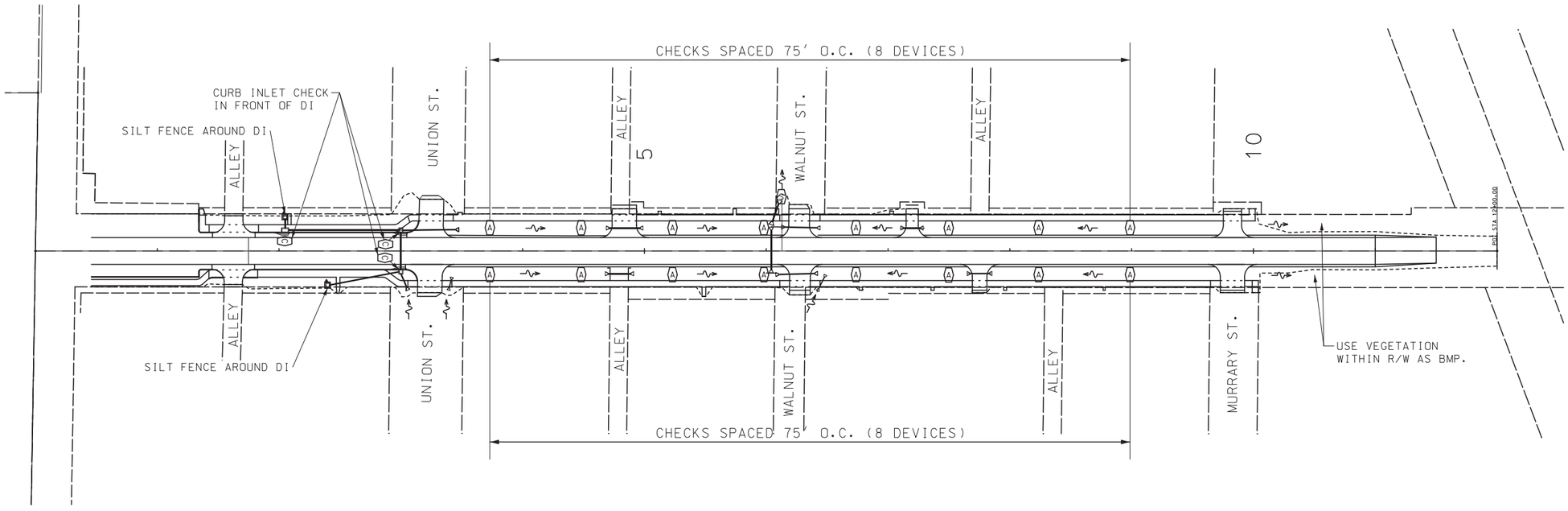
| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

1. SOUTH SIDE OF ROUTE 6, THE RECEIVING WATERS IS MUSSEL FORK
2. NORTH SIDE OF ROUTE 6 AND WEST OF ROUTE D, THE RECEIVING WATER IS MUSSEL FORK.
3. NORTH SIDE OF ROUTE 6 AND EAST OF ROUTE D, THE RECIEVING WATER IS JOBS CREEK.




TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (S) SEDIMENT TRAP
- SILT FENCE
- SLOPE LIMITS

SCALE
0 50 100 150

EROSION CONTROL
SHEET 1 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 38 |

COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

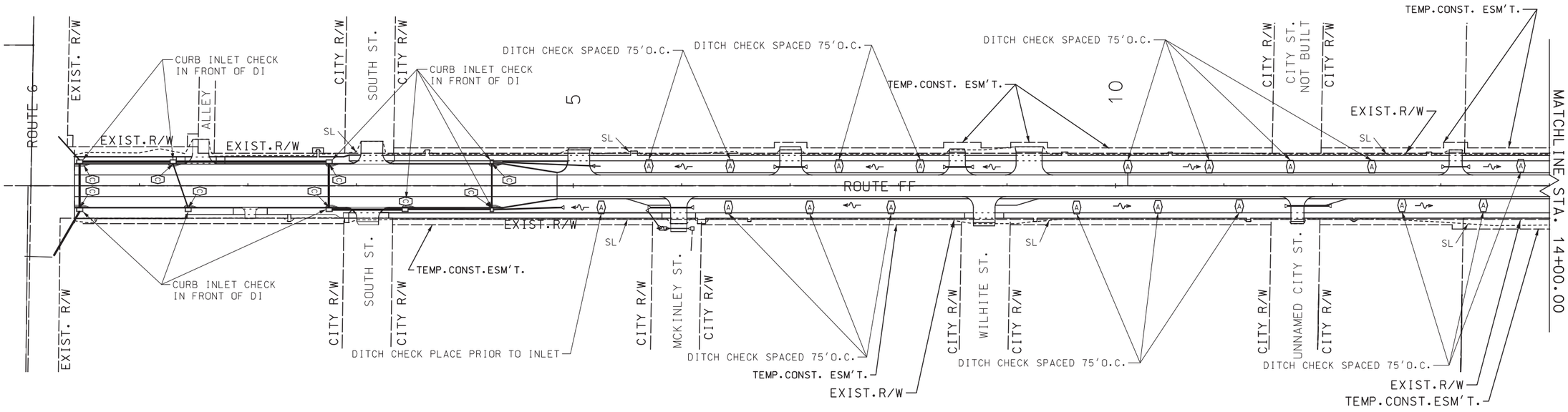
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE | REV. |
|---|---|---|
| | | |

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

THE RECEIVING WATERS FOR ROUTE FF IS MUSSEL FORK




GENERAL NOTE: ALL DITCH CHECKS ON THIS SHEET ARE 9" IN HEIGHT.

TEMPORARY EROSION CONTROL LEGEND

| | |
|---|---|
| (A) | ALTERNATE DITCH CHECK |
| (C) | CURB INLET CHECK |
| ---------- | SLOPE LIMITS |

SCALE
0 50 100 150

EROSION CONTROL
SHEET 2 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 39
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE | DESCRIPTION | REV.

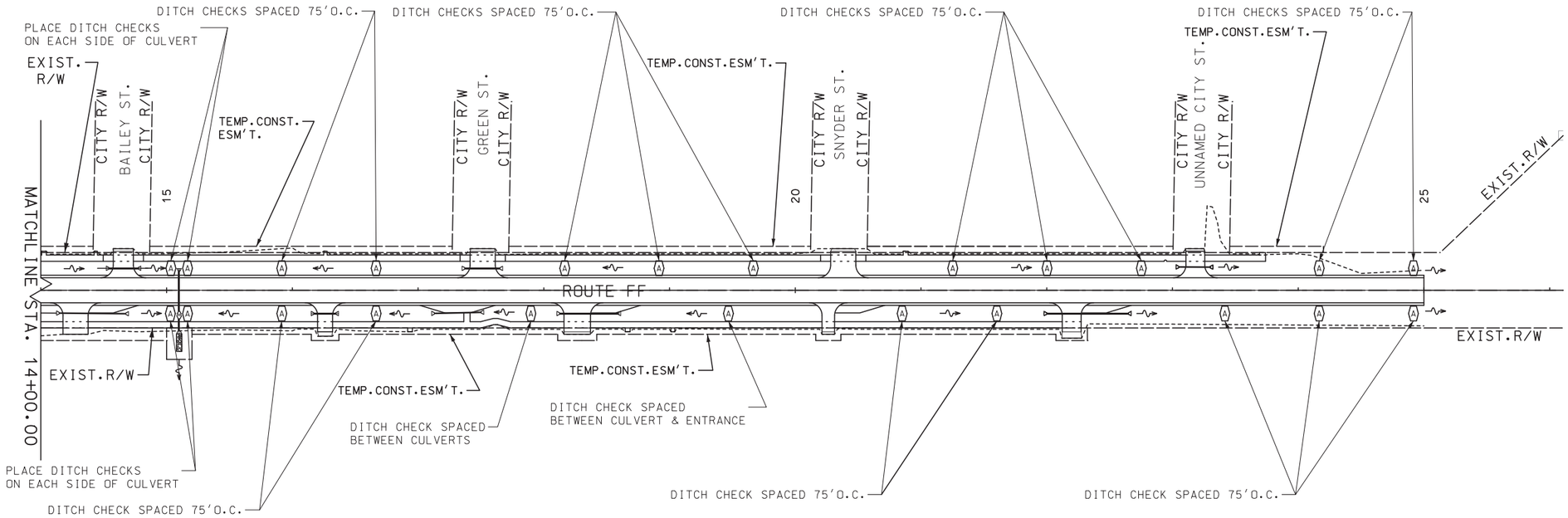
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

c:\pwdata\topeka01\aap01686@bartwest.com\dms37170\039_EC_02_of_03_J1S3243_150.dgn 1:14:53 PM 8/9/2019

THE RECEIVING WATERS FOR ROUTE FF IS MUSSEL FORK.




TEMPORARY EROSION CONTROL LEGEND

(A) ALTERNATE DITCH CHECK

---------- SLOPE LIMITS

SCALE

0 50 100 150

EROSION CONTROL
SHEET 3 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/14/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 40 |

COUNTY
SULLIVAN

JOB NO.
J1S3243

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION | REV. |
|---|---|---|
| | | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
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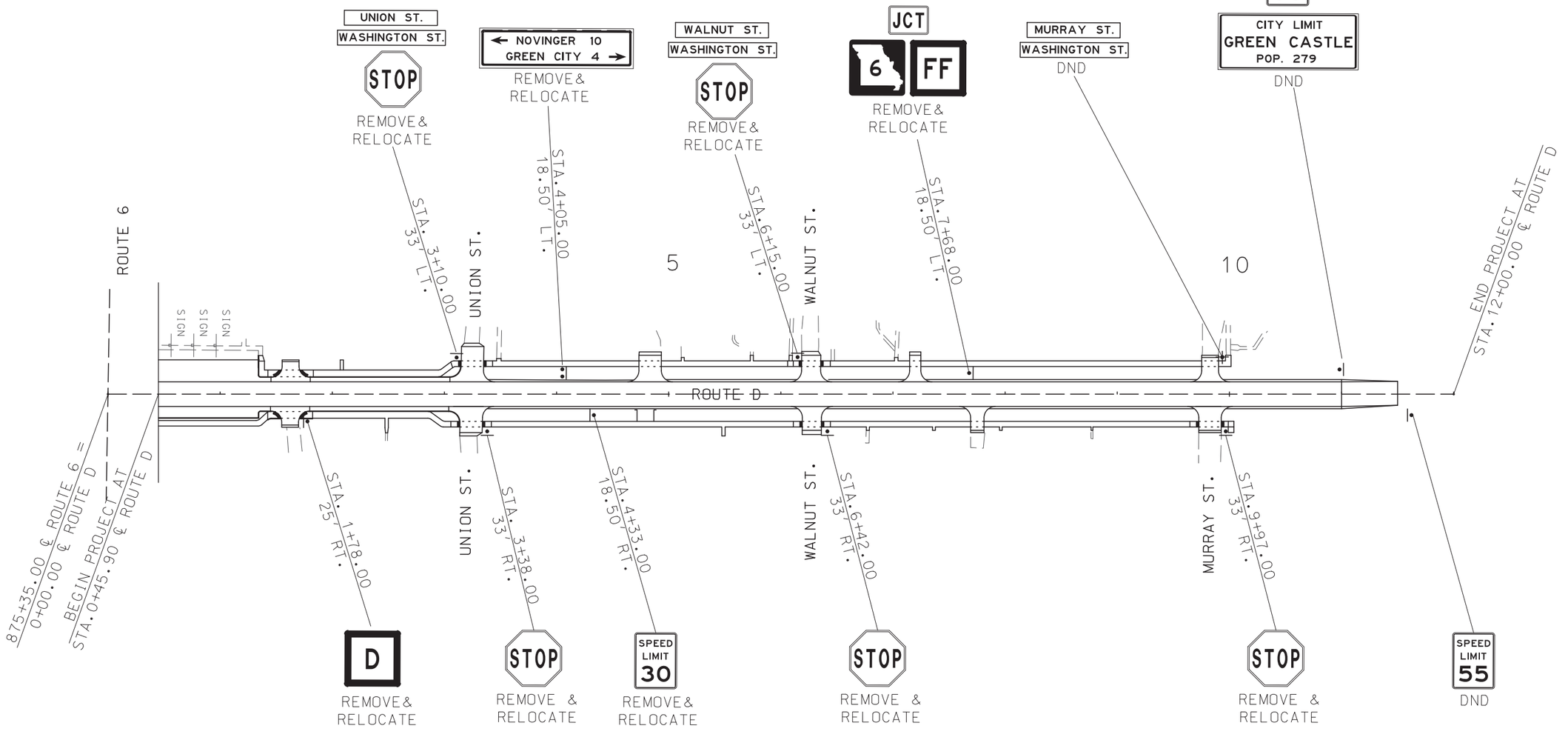
GENERAL NOTES:
1. EXISTING SIGNS SHALL BE REMOVED AND MOUNTED ON NEW POSTS AS PER PLANS.
2. FINAL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
3. SIGNS THAT EXTEND ABOVE SIDEWALK SHALL HAVE A MINUMUM 80" VERTICAL CLEARANCE.
4. EXISTING BACKING BARS SHALL REMOVED AND REINSTALLED ON THE NEW POST.
5. EXISTING PARKING SIGNS AND POSTS SHALL BE REMOVED AND REINSTALLED AT LOCATIONS DETERMINED BY THE CITY OF GREENCASTLE.
6. ALL SIGNS ARE EXISTING ON THIS PROJECT.




SCALE
0 100 200

SIGNING PLAN
SHEET 1 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

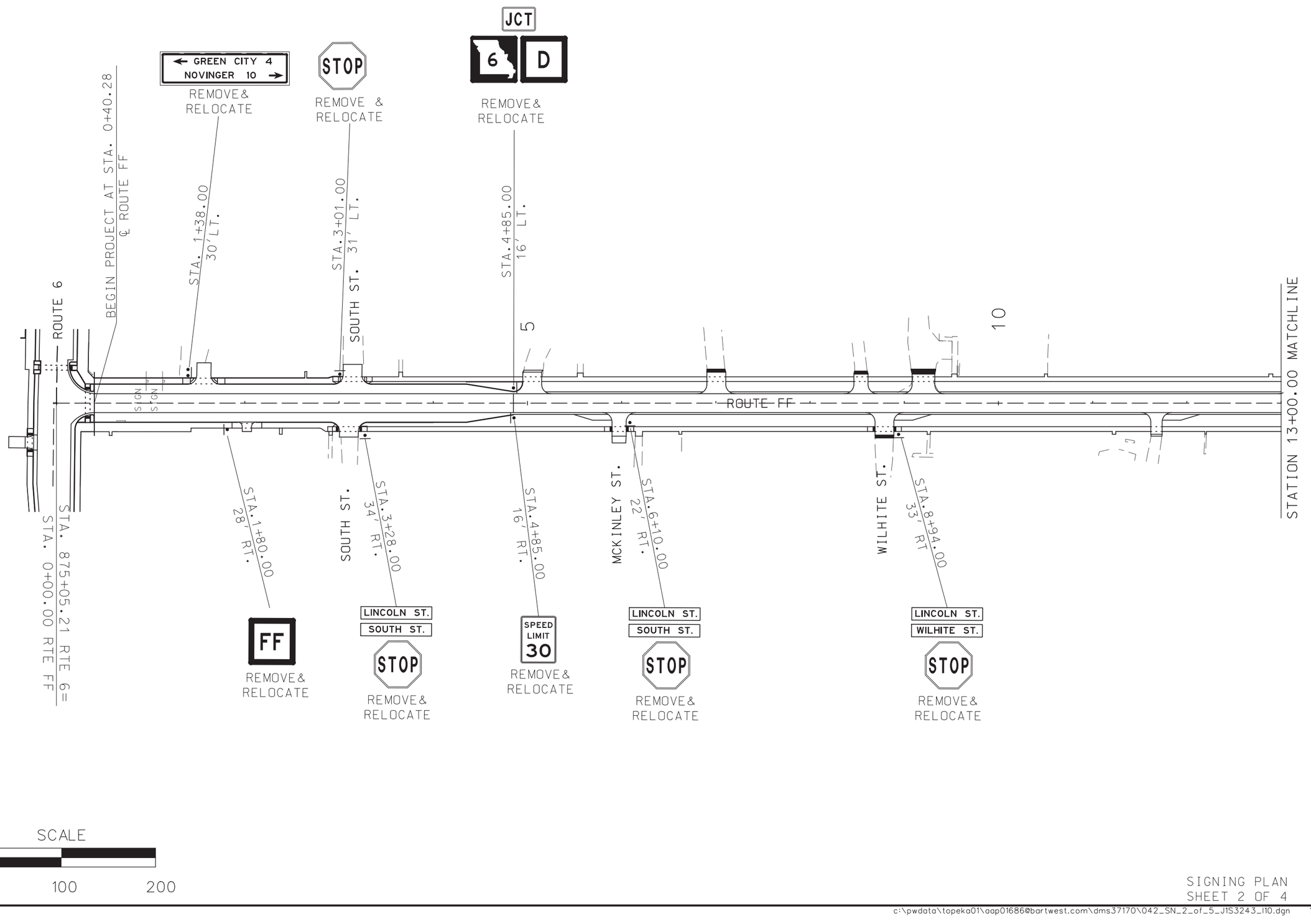
DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 41
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.


MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




SIGNING PLAN
SHEET 2 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 42 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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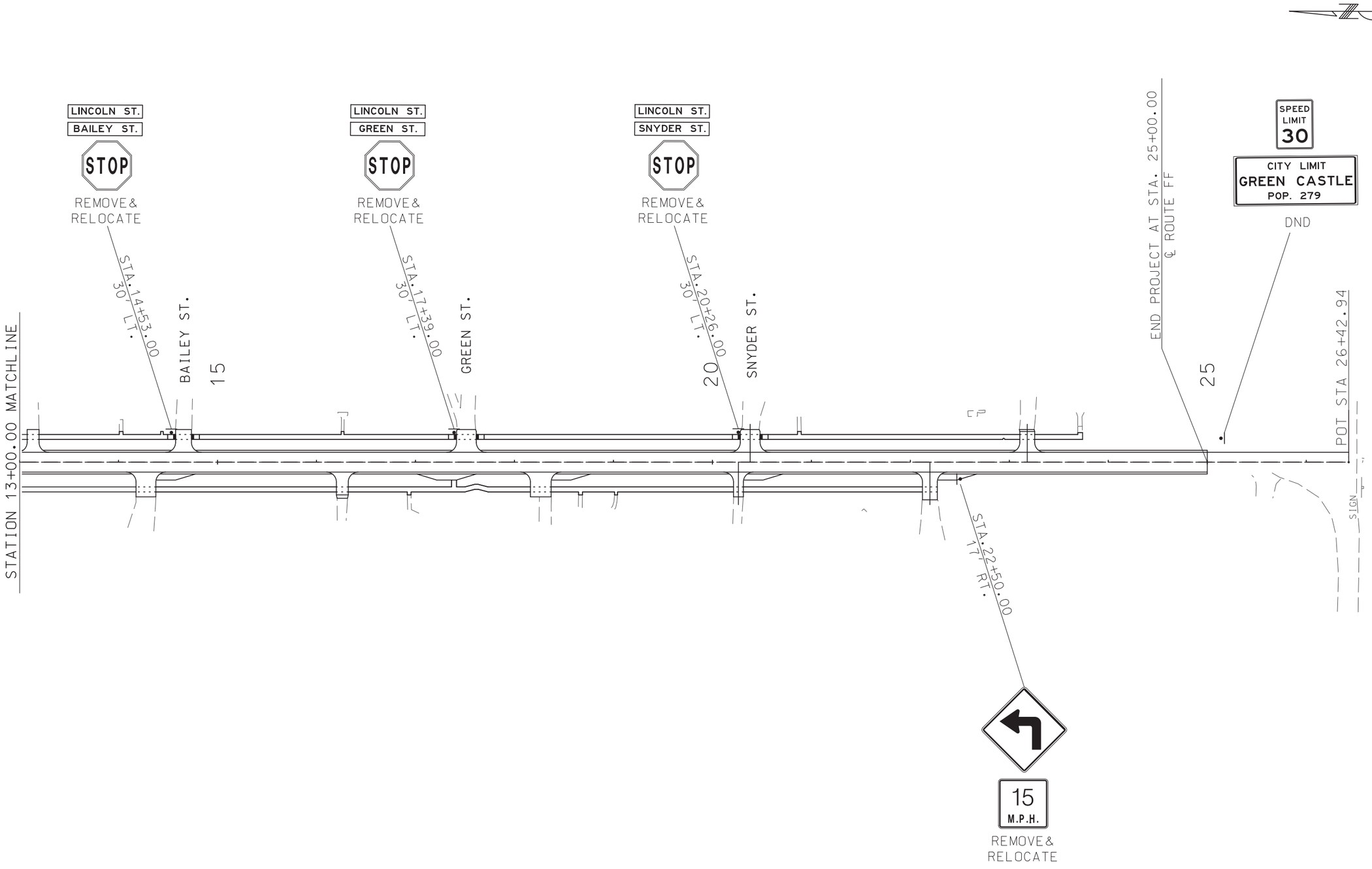
WWW.BARTWEST.COM




SIGNING PLAN
SHEET 3 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 43 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
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WWW.BARTWEST.COM

c:\pwdata\topeka01\aap01686@bartwest.com\dms37170\043_SN_3_of_5_J1S3243_110.dgn 1:15:13 PM 8/9/2019

EFFECTIVE 12-01-2017

| SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET) | | | | | | PIPE POST ✳ | | | | | STRUCTURAL STEEL: POSTS ✳ | | | | | | BACKING BARS 2" X ⅜" BARS @ 2.55 LBS PER LIN FT | | | | TOTAL | U CHANNEL POST | PERFORATED SQUARE STEEL TUBE POST: 2 IN | | | | | | | | | FOOTINGS | | REMARKS AND OTHER REQUIRED ITEMS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGN NO. | SIGN SIZE | STATION | HORZ CLEAR IF NOT STD | LOCATION | SIGN DTL. SHT. NO. | PIPE SIZE | POST NO.1 | POST NO.2 | LBS PER FT | TOTAL ITEM NO. 9031220 | POST DES NO. | POST NO.1 | POST NO.2 | POST NO.3 | LBS PER FT | TOTAL | NO. EACH | LGTH | TOTAL | TOTAL | TOTAL ITEM NO. 9031210 | ITEM NO. 9031250 | POST NO.1 | POST NO.2 | TOTAL ITEM NO. 9031270A | ANCHOR 7 GA. ITEM NO. 9031273 | OMNI 7 GA. ITEM NO. 9031279 | ANCHOR 12 GA. ITEM NO. 9031271 | OMNI 12 GA. ITEM NO. 9031278 | POST NO.1 | POST NO.2 | TOTAL ITEM NO. 9031280 | 2.25" INSERT ITEM NO. 9031272 | ANCHOR 7 GA. ITEM NO. 9031281 | OMNI 7 GA. ITEM NO. 9031282 | BREAK-AWAY ASSEMBLY ITEM NO. 9031241 | EMBD ITEM NO. 9031010 | BOLT DOWN ITEM NO. 9031020 | |
| | | | | | | IN. | LF | LF | | LBS | | LF | LF | LF | | LBS | EACH | IN. | LF | LBS | LBS | LF | LF | LF | | | | | | | | | | | | EACH | CU YDS | CU YDS | |
| | | 1+78.00 | 25'RT. | RTE.D | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | REUSE EXISTING BACKING BARS |
| | | 3+10.00 | 33'LT. | RTE.D | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 3+38.00 | 33'RT. | RTE.D | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 4+05.00 | 18.5'LT. | RTE.D | | | | | | | | | | | | | | | | | | | 16 | 16 | 32 | | 6 | | | | | | 2 | 0.26 | | |
| | | 4+33.00 | 18.5'RT. | RTE.D | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 6+15.00 | 33' LT. | RTE.D | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 6+42.00 | 33' RT. | RTE.D | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 7+68.00 | 18.5'LT. | RTE.D | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | REUSE EXISTING BACKING BARS |
| | | 9+97.00 | 33' RT. | RTE.D | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 1+38.00 | 30' LT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | 16 | 32 | | 6 | | | | | | 2 | 0.26 | | REUSE EXISTING BACKING BARS |
| | | 1+80.00 | 28' RT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 3+01.00 | 31' LT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 3+28.00 | 34' RT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 4+85.00 | 16' LT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | REUSE EXISTING BACKING BARS |
| | | 4+85.00 | 16' RT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 6+10.00 | 22' RT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 8+94.00 | 33' RT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | REUSE EXISTING BACKING BARS |
| | | 14+53.00 | 30' LT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 17+39.00 | 30' LT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 20+26.00 | 30' LT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| | | 22+50.00 | 17' RT. | RTE.FF | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | | | | | 0.13 | | |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | 368 | | 69 | | 4 | 2.99 | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | 368 | | 69 | | 4 | 3.0 | | | | |

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

## ROUND PIPE POST AND FOOTING DATA TABLE

| NOM. SIZE | WEIGHT | | STUB LENGTH | FOOTING | | CONCRETE |
|---|---|---|---|---|---|---|
| (IN.) | LBS/FT | LBS/IN | | DIA. | DEPTH | C.Y. |
| 2½ | 5.79 | 0.48 | 4'-3½" | 12" | 4'-6" | 0.13 |
| 3 | 7.58 | 0.63 | 4'-3½" | 12" | 4'-6" | 0.13 |
| 4 | 10.79 | 0.90 | 5'-3½" | 18" | 5'-6" | 0.36 |

## POST AND FOOTING DATA TABLE

| POST DES. NO. | NOM. SIZE | POST WEIGHT LBS/FT | POST WEIGHT LBS/IN | POST STUB LENGTH | FOOTING DIA. | FOOTING LEVEL GROUND DEPTH | FOOTING LEVEL GROUND C.Y. | FOOTING 6:1 GRADE DEPTH | FOOTING 6:1 GRADE C.Y. | FOOTING 4:1 GRADE DEPTH | FOOTING 4:1 GRADE C.Y. | FOOTING 3:1 OR 2:1 GRADE DEPTH | FOOTING 3:1 OR 2:1 GRADE C.Y. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | W6 | 9.0 | 0.75 | 3'-0" | 15" | 3'-0" | 0.14 | 3'-2" | 0.15 | 3'-3" | 0.16 | 3'-6" | 0.17 |
| 2 | W6 | 15.0 | 1.25 | 4'-0" | 24" | 4'-0" | 0.47 | 4'-2" | 0.50 | 4'-3" | 0.51 | 4'-6" | 0.54 |
| 3 | W8 | 18.0 | 1.50 | 4'-6" | 28" | 4'-6" | 0.71 | 4'-8" | 0.73 | 4'-9" | 0.74 | 5'-0" | 0.78 |
| 4 | W10 | 22.0 | 1.83 | 5'-0" | 36" | 5'-0" | 1.31 | 5'-2" | 1.36 | 5'-3" | 1.39 | 5'-6" | 1.45 |
| 5 | W10 | 26.0 | 2.17 | 5'-0" | 36" | 5'-0" | 1.31 | 5'-3" | 1.37 | 5'-5" | 1.43 | 5'-9" | 1.52 |
| 6 | W12 | 35.0 | 2.92 | 5'-6" | 36" | 5'-6" | 1.44 | 5'-9" | 1.52 | 5'-11" | 1.56 | 6'-3" | 1.65 |

SIGNING PLAN
SHEET 4 OF 4

D-29

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 8/7/2020
ROUTE: D/FF | STATE: MO
DISTRICT: NW | SHEET NO.: 44
COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DATE | DESCRIPTION |
|---|---|
| 2/10/2020 | ADDED BREAKWAY ASSEMBLIES |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

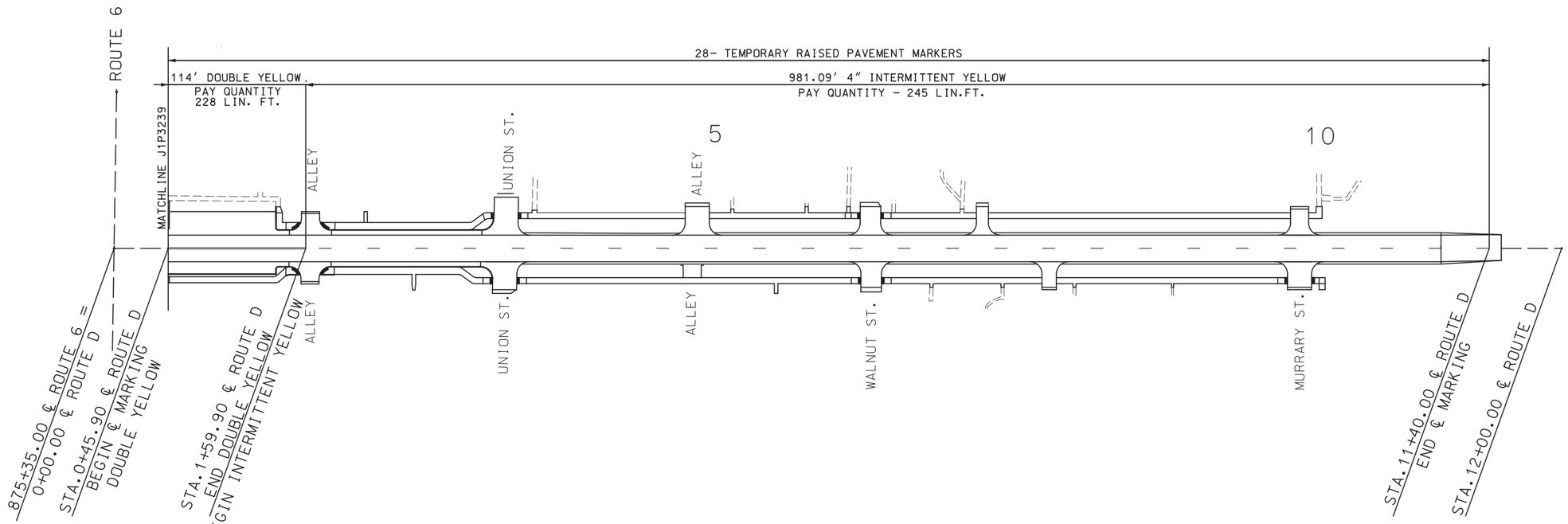
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West

1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

GENERAL NOTE
1. PAVEMENT MARKING MATERIAL IS WATERBORNE PAINT WITH TYPE I BEADS.
2. ROUTE D ADT IS LESS THAN 400, NO EDGELINE MARKING REQUIRED.




SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 1 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 45
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

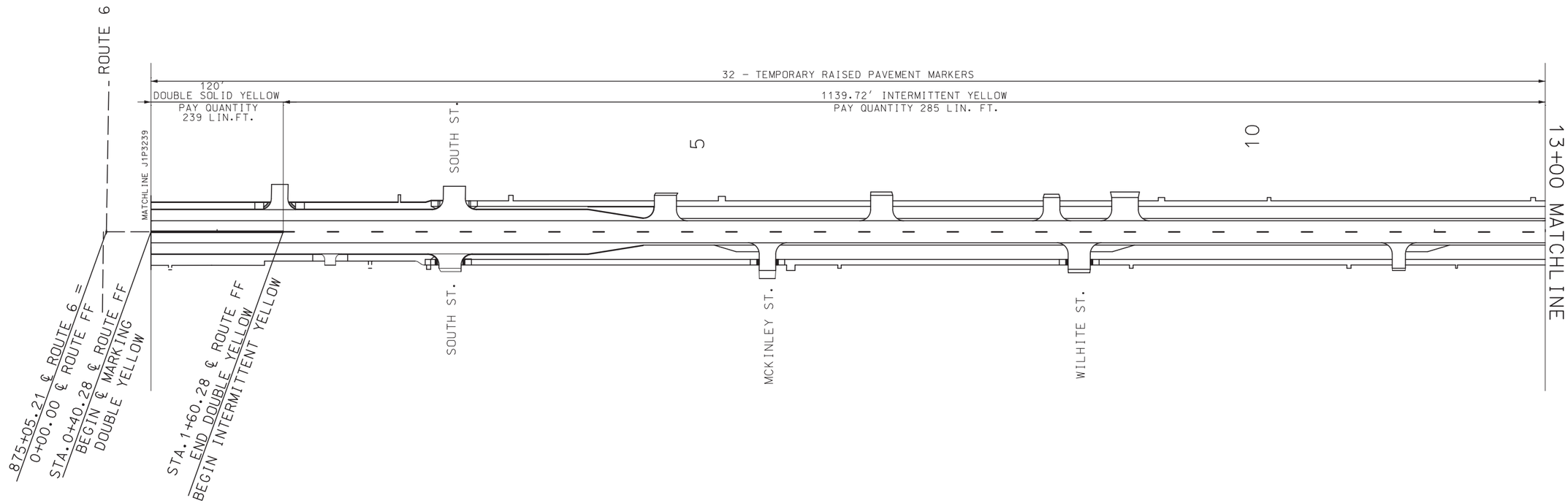
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| REV. | DESCRIPTION | DATE |
|---|---|---|

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

GENERAL NOTE
1. PAVEMENT MARKING MATERIAL IS WATERBORNE PAINT WITH TYPE I BEADS.
2. ℄ MARKING SHALL BE 4″ WIDE.
3. ROUTE FF ADT IS LESS THAN 400, NO EDGELINE MARKING REQUIRED.




SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 2 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 46
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| REV. | DESCRIPTION | DATE |
|---|---|---|

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)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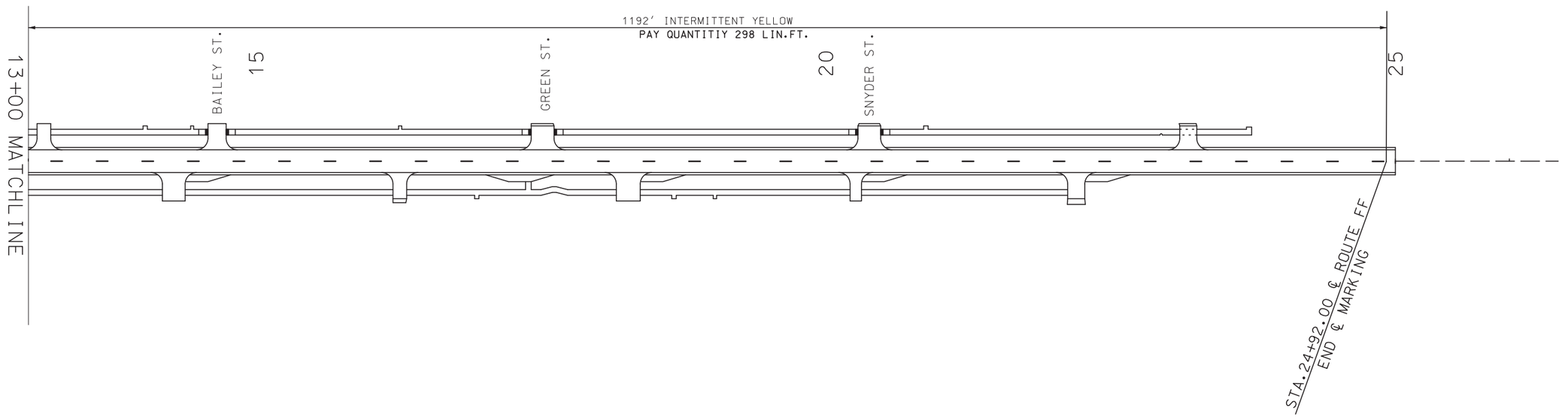


SCALE

0 50 100 150

PAVEMENT MARKING
SHEET 3 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 47 |

COUNTY
SULLIVAN

JOB NO.
J1S3243

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PHONE 573-634-3181 - FAX 573-634-7904
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WWW.BARTWEST.COM

REV.

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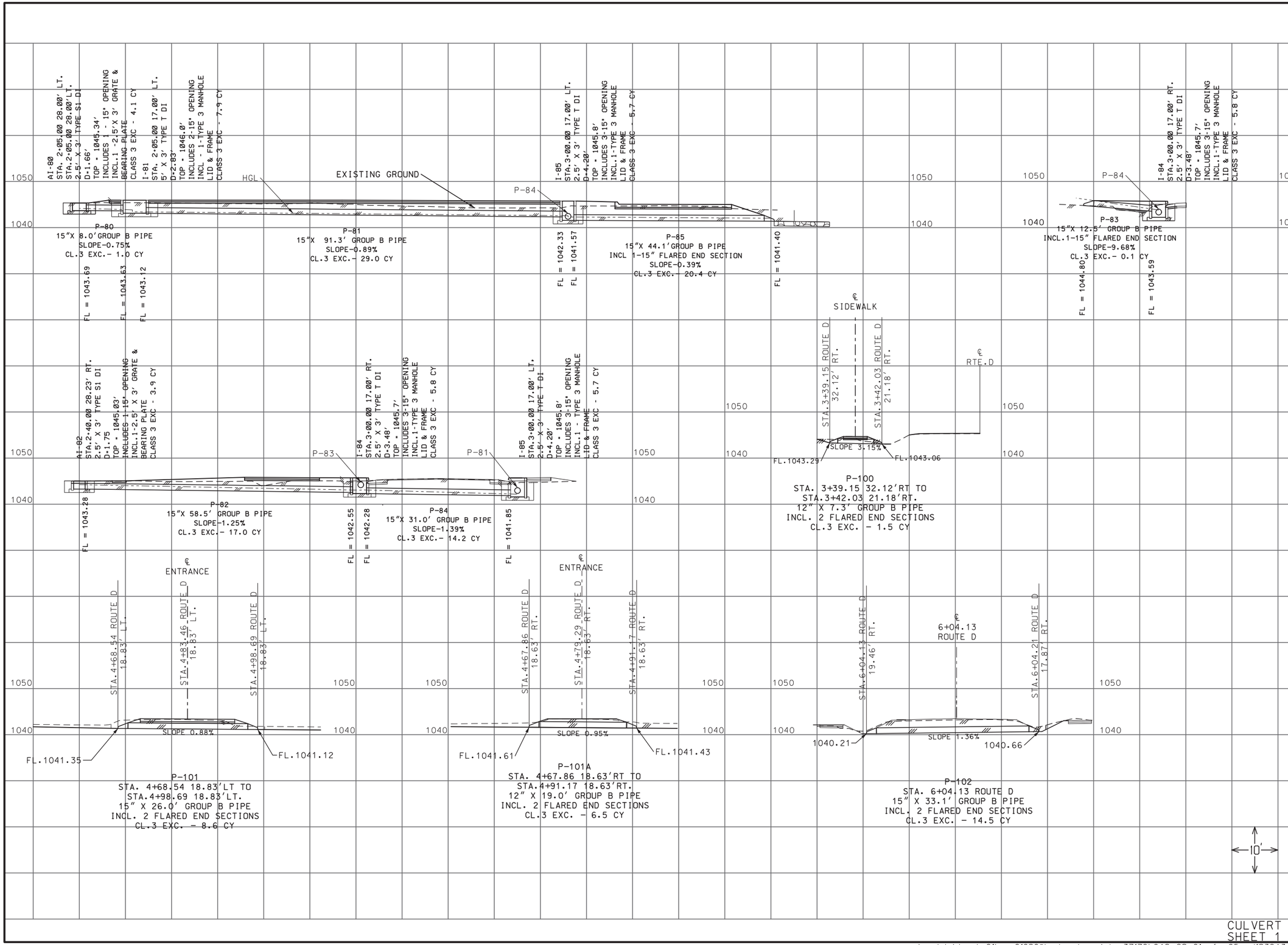


CULVERT SECTIONS
SHEET 1 OF 5

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 48 |

COUNTY
SULLIVAN

JOB NO.
J1S3243

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
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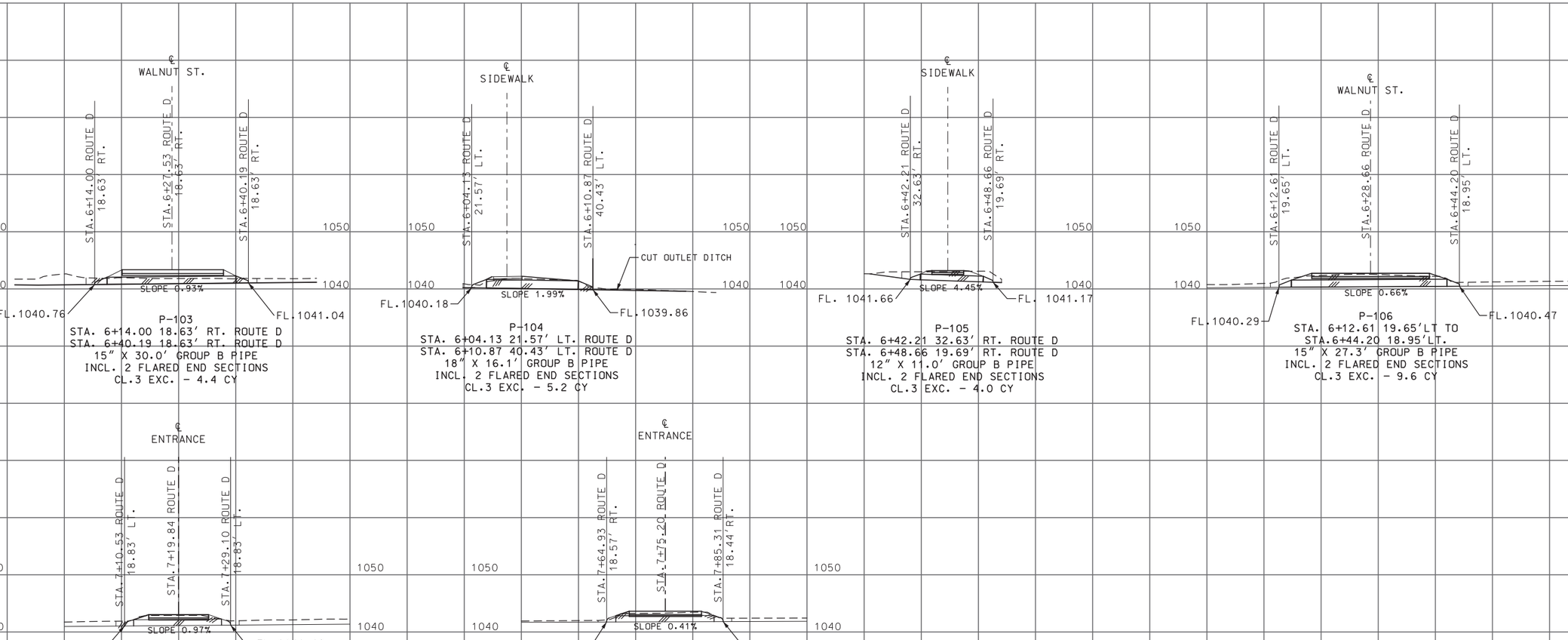



CULVERT SECTIONS
SHEET 2 OF 5

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 49
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

℄ SIDEWALK

℄ ENTRANCE

STA.5+79.62 ROUTE FF
38.45' RT.

STA.5+68.02 ROUTE FF
22.16' RT.

STA.5+86.12 ROUTE FF
39.43' RT.

STA.6+08.43 ROUTE FF
39.45' RT.

STA.4+91.63 ROUTE FF
20.00' RT.

SLOPE 2.48%

SLOPE 0.57%

FL.1044.45

FL.1044.04

FL.1044.51

FL.1044.62

P-200
STA. 5+68.02 22.16'RT TO
STA.5+79.62 38.45'RT.
12" X 18.3' GROUP B PIPE
INCL. 1 FLARED END SECTIONS
CL.3 EXC. - 6.1 CY

P-201
STA. 5+86.12 39.43'RT TO
STA.6+08.43 39.45'RT.
12" X 19.2' GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 6.5 CY

P-114

MH #26
STA.4+24.72 21.00' RT
48" PRECAST MANHOLE
D=2.46'
TOP = 1045.0'
INCLUDES 2-18";1-15" OPENINGS
INCL - 1 TYPE 2 MANHOLE FRAME
& LID
CLASS 3 EXC - 4.6 CY

P-27

I-28
STA. 4+25.00 22.00' RT.
2.5'X3' TYPE T DI
D=4.04'
TOP = 1045.65'
INCLUDES 1-15";2-18" OPENINGS
INCL - 1 TYPE 3 MANHOLE
LID & FRAME
CLASS 3 EXC - 6.8 CY

I-29
STA.3+45.00 22.00' RT.
5'X3' TYPE T DI
D=4.16'
TOP = 1044.92'
INCLUDES 1-18";1-24" OPENINGS
INCL - 1 TYPE 3 MANHOLE
LID & FRAME
CLASS 3 EXC - 12.3 CY

I-30
STA. 2+75.00 22.00' RT.
5'X3' TYPE T DI
D=4.18'
TOP = 1044.34'
INCLUDES 2 - 24" OPENING
INCL - 1 TYPE 3 MANHOLE
LID & FRAME
CLASS 3 EXC - 8.7 CY

MATCHLINE (THIS SHEET)

FL = 1043.56

P-26A
18"X 34.10' GROUP B PIPE
SLOPE-2.40%
CL.3 EXC. -11.2 CY
INCL. 1 FLARED END SECTION

FL = 1042.74

FL = 1042.50

P-26
18"X 25.1' GROUP B PIPE
SLOPE-0.48%
CL.3 EXC.-7.7 CY

FL = 1042.38

FL = 1041.62

P-28
18"X 76.3'GROUP B PIPE
SLOPE-0.77%
CL.3 EXC.-40.3 CY

FL = 1041.04

FL = 1040.76

P-29
24"X 65.0'GROUP B PIPE
SLOPE-0.29%
CL.3 EXC.- 42.6 CY

FL = 1040.57

FL = 1040.16

P-30
24"X 41.0'GROUP B PIPE
SLOPE-0.69%
CL.3 EXC.- 31.5 CY

MATCHLINE (THIS SHEET)

I-31
STA. 2+75.00 22.00' LT.
5'X3' TYPE T DI
D=4.99'
TOP = 1044.34'
INCLUDES 2 - 24" OPENING
INCL - 1 TYPE 3 MANHOLE
LID & FRAME
CLASS 3 EXC - 15.3 CY

FL = 1039.88

FL = 1039.36

P-31
24"X 134.5' GROUP B PIPE
SLOPE-0.25%
CL.3 EXC - 124.6 CY

P-32

I-33
STA.1+31.00 22.00' LT.
5'X3' TYPE T DI
D=4.45'
TOP = 1043.21'
INCLUDES 1-15";2-24" OPENINGS
INCL - 1 TYPE 3 MANHOLE
LID & FRAME
CLASS 3 EXC - 14.9 CY

FL = 1039.02

FL = 1038.76

P-33
24"X 81.1' GROUP B PIPE
SLOPE-0.23%
CL.3 EXC.- 69.6 CY

P-34 (SEE J1P3239)

I-34 (SEE J1P3239)

FL = 1038.57

P-36 (SEE J1P3239)

TEMP. CONST. EASEMENT

EXIST. R/W

5'

GRADE TO DRAIN
STA. 4+24.72
OFF: 33.61' RT.

P-26B
12"X 10.6' GROUP B PIPE
SLOPE-12.98%
CL.3 EXC - 1.1 CY

FL = 1043.07

10'

CULVERT SECTIONS
SHEET 3 OF 5

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/9/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 50 |

COUNTY
SULLIVAN

JOB NO.
J1S3243

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

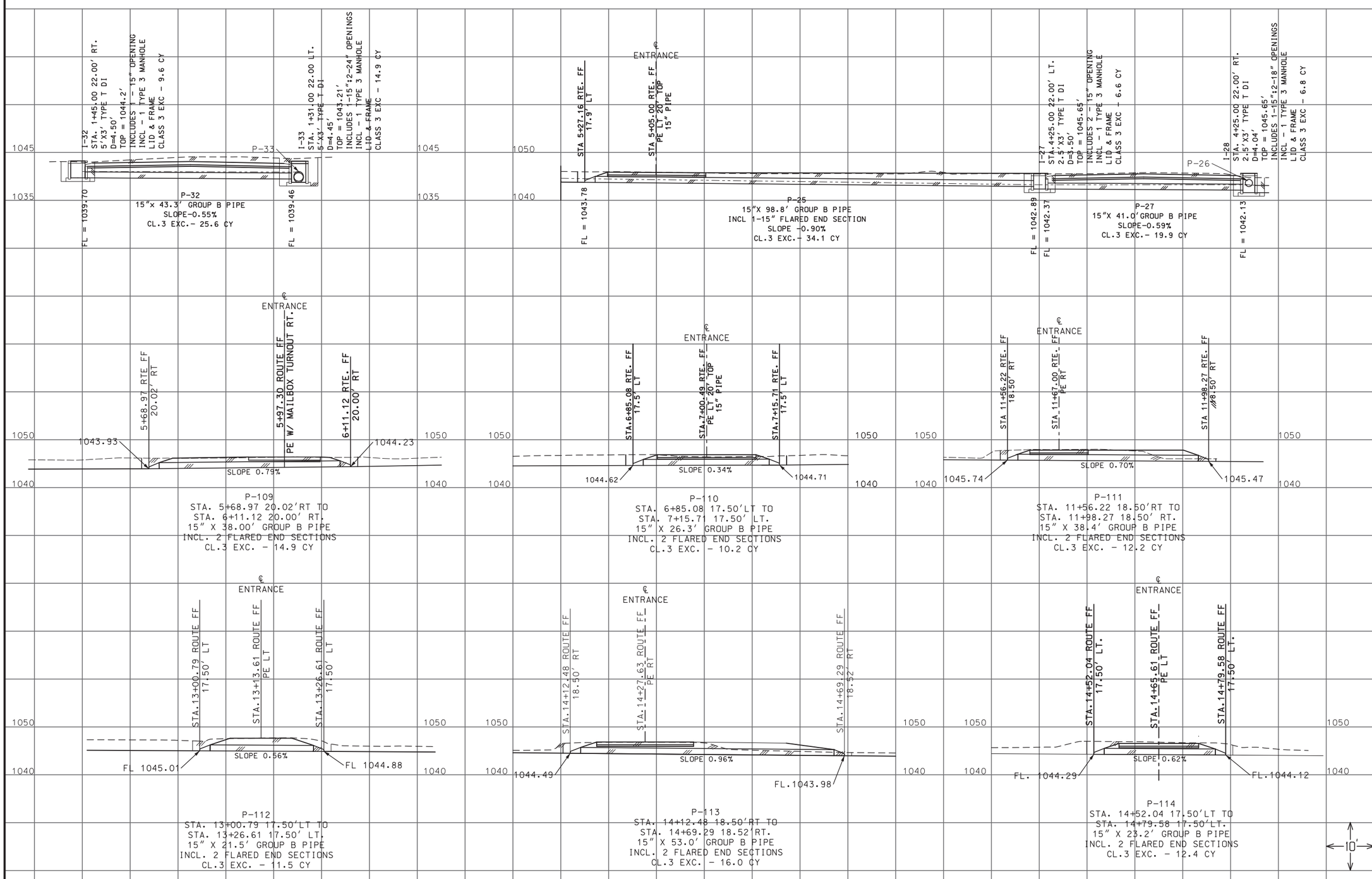
| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM




CULVERT SECTIONS
SHEET 4 OF 5

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2019
ROUTE D/FF | STATE MO
DISTRICT NW | SHEET NO. 51
COUNTY SULLIVAN
JOB NO. J1S3243
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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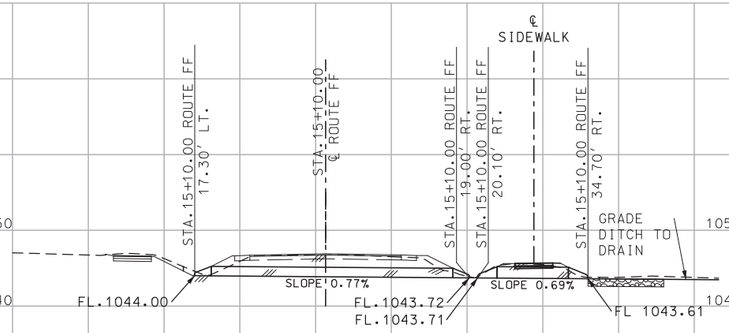
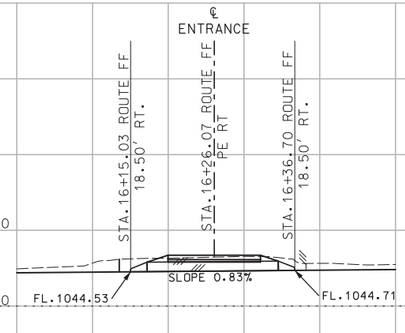
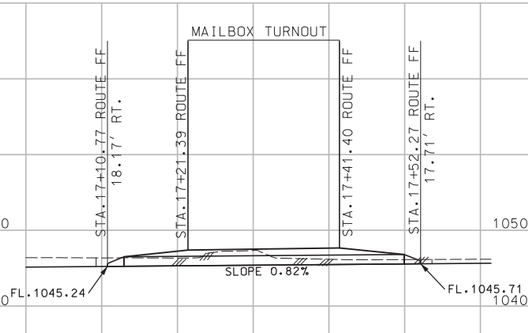



P-115
STA. 15+10.00 ℄ ROUTE
15" X 31.9' GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 12.4 CY

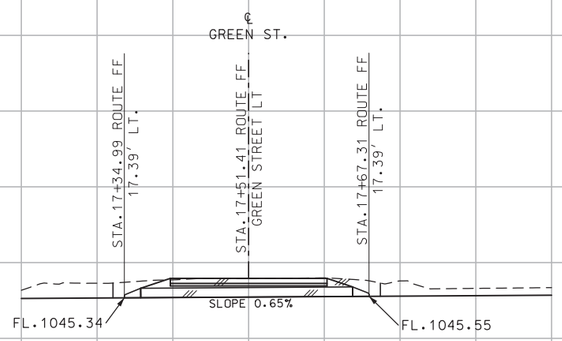
P-116
STA. 15+10.00 ℄ ROUTE
18" X 9.4'GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 3.4 CY



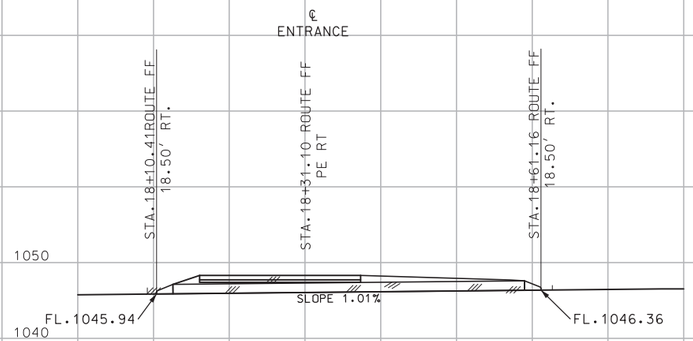

P-117
STA. 16+15.03 18.50'RT TO
STA. 16+36.70 18.50'RT.
15" X 17.3' GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 6.7 CY



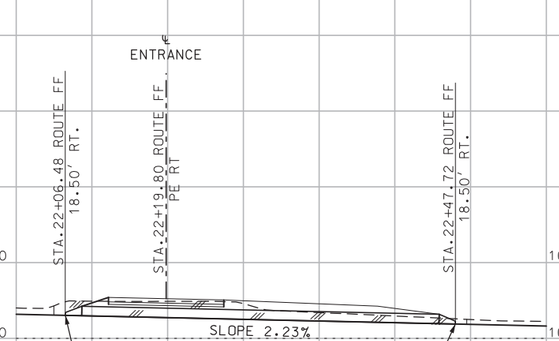

P-118
STA. 17+10.77 18.17'RT TO
STA. 17+52.27 17.71'RT.
15" X 37.2 GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 7.2 CY



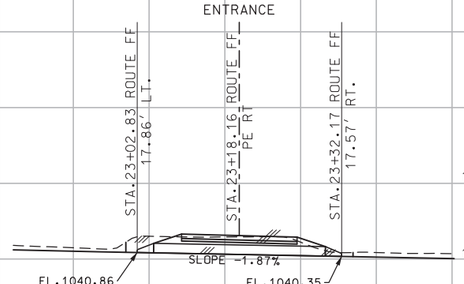

P-119
STA. 17+34.99 17.39'LT TO
STA. 17+67.31 17.39'LT.
15" X 28.0' GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 13.0 CY



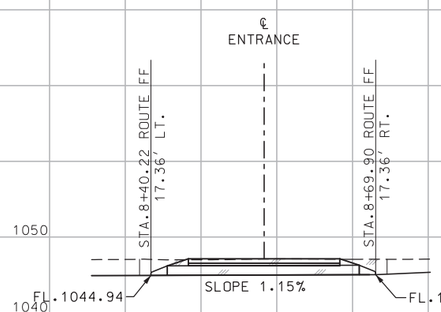

P-120
STA. 18+10.41 18.50'RT TO
STA. 18+61.16 18.50'RT.
15" X 46.4' GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 10.9 CY



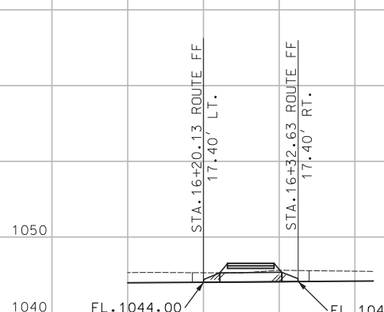

P-121
STA. 22+06.48 18.50'RT TO
STA.22+47.72 18.50'RT.
15" X 65.0' GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 13.0 CY



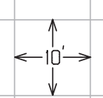

P-122
STA. 23+02.83 17.86'LT TO
STA.23+32.17 17.57'LT.
15" X 25.0' GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 9.0 CY




P-110A
STA. 8+41.26 17.36'LT TO
STA.8+69.10 17.36'LT.
15" X 25.3'GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 10.7 CY




P-117A
STA. 16+20.13 17.40'LT TO
STA. 18+32.63 17.40'RT.
15" X 8.2' GROUP B PIPE
INCL. 2 FLARED END SECTIONS
CL.3 EXC. - 3.3 CY




CULVERT SECTIONS
SHEET 5 OF 5


STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.


DATE PREPARED: 8/28/2019

| ROUTE | STATE |
|---|---|
| D/FF | MO |
| DISTRICT | SHEET NO. |
| NW | 52 |

COUNTY: SULLIVAN
JOB NO.: J1S3243
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

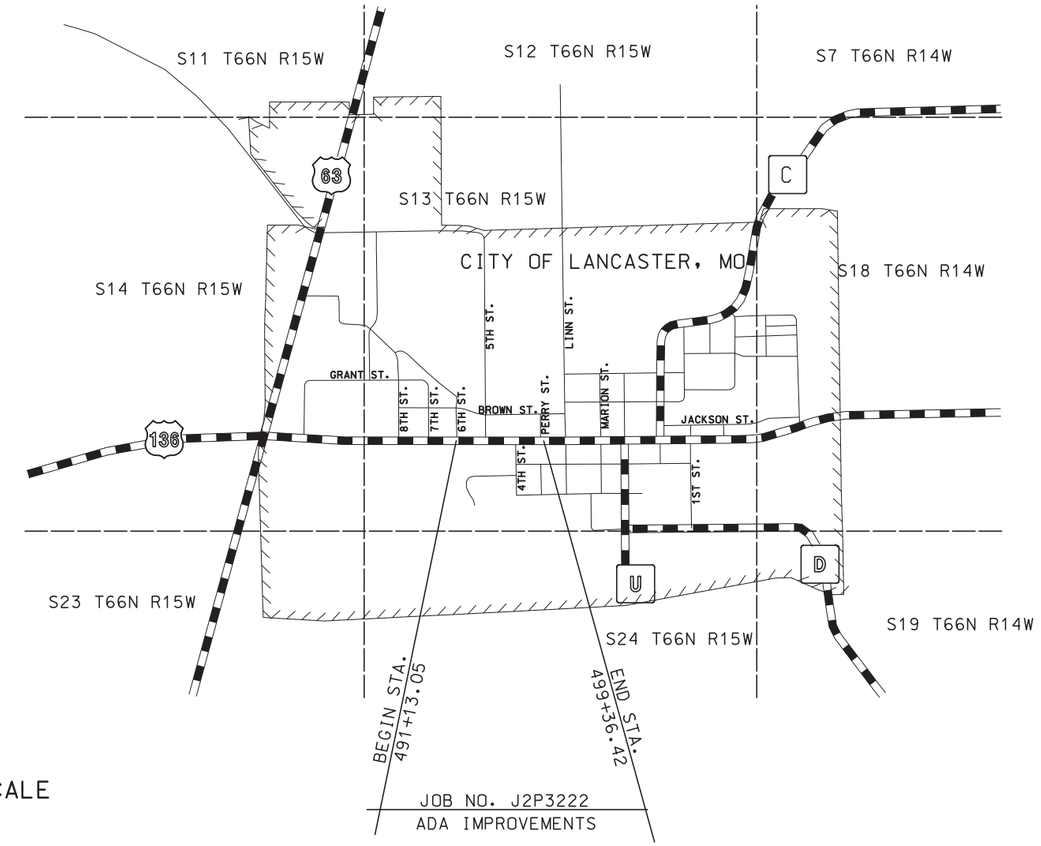
# PLANS FOR PROPOSED STATE HIGHWAY

# SCHUYLER COUNTY

## AMERICANS WITH DISABILITIES ACT (ADA) IMPROVEMENTS

LOCATION MAP

SHOWING LOCATION OF SCHUYLER COUNTY




NOT TO SCALE

## DESIGN DESIGNATION

A.A.D.T. - 2018 = 4228
A.A.D.T. - 2028 = 4672
T = 18%
V = 35 M.P.H.

FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

## TEMPORARY CONSTRUCTION EASEMENTS REQUIRED

NO PERMANENT R/W REQUIRED

## UTILITY COMPANIES

CITY OF LANCASTER
GEORGE REINDEL
PHONE:(660)457-3022

AMEREN MISSOURI ELECTRIC
PATRICK MCCARTY
PHONE:(660)785-2730

NORTHEAST MISSOURI RURAL TELEPHONE
DAVID RIDDLE
PHONE:(660)874-4111

LIBERTY UTILITIES
RANDY SNODGRASS
PHONE:(660)665-7137

TELEPHONE
ATT DISTRIBUTION
TIM BREGENZER
PHONE:(618) 210-2425

## CONVENTIONAL SYMBOLS

(USED IN PLANS)

| | EXISTING | NEW |
|---|---|---|
| BUILDINGS AND STRUCTURES | | |
| GUARD RAIL | | |
| GUARD CABLE | | |
| CONCRETE RIGHT-OF-WAY MARKER | | |
| STEEL RIGHT-OF-WAY MARKER | | |
| LOCATION SURVEY MARKER | | |
| UTILITIES | | |
| FIBER OPTICS | -FO- | ~~FO~~ |
| OVERHEAD CABLE TV | -OTV- | ~~OTV~~ |
| UNDERGROUND CABLE TV | -UTV- | ~~UTV~~ |
| OVERHEAD TELEPHONE | -OT- | ~~OT~~ |
| UNDERGROUND TELEPHONE | -UT- | ~~UT~~ |
| OVERHEAD POWER | -OE- | ~~OE~~ |
| UNDERGROUND POWER | -UE- | ~~UE~~ |
| SANITARY SEWER | -S- | ~~S~~ |
| STORM SEWER | -SS- | ~~SS~~ |
| GAS | -G- | ~~G~~ |
| WATER | -W- | ~~W~~ |
| MANHOLE | SAN | |
| FIRE HYDRANT | HYD | |
| WATER VALVE | WV | |
| WATER METER | WM | |
| DROP INLET | DI | |
| DITCH BLOCK | | |
| GROUND MOUNTED SIGN | SIGN | |
| LIGHT POLE | | |
| H-FRAME POWER POLE | | |
| TELEPHONE PEDESTAL | PED | |
| FENCE | | |
| CHAIN LINK | -V- | |
| WOVEN WIRE | -X- | |
| GATE POST | | |
| BENCHMARK | BM | |

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

## INDEX OF SHEETS


| DESCRIPTION | SHEET NUMBER |
|---|---|
| TITLE SHEET | 1 |
| TYPICAL SECTIONS (TS) (1 SHEET) | 2 |
| QUANTITIES (QU) (3 SHEETS) | 3 |
| PLAN-PROFILE (PP) | 4-6 |
| REFERENCE POINTS (RP) | 7 |
| COORDINATE POINTS (CP) | 7 |
| TRAFFIC CONTROL (TC) | 8-11 |
| EROSION CONTROL (EC) | 12 |
| SPECIAL SHEETS (SS) | 13-17 |


## LENGTH OF PROJECT

ROUTE 136

| | | |
|---|---|---|
| BEGINNING OF PROJECT | STA. 491+13.05 | |
| END OF PROJECT | STA. 499+36.42 | |
| APPARENT LENGTH | 823.37 | FEET |
| EQUATIONS AND EXCEPTIONS: | NONE | |
| TOTAL CORRECTIONS | 0.00 | FEET |
| NET LENGTH OF SECTION | 823.37 | FEET |
| NET LENGTH OF PROJECT | 823.37 | FEET |
| STATE LENGTH | 0.156 | MILES |

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 12/5/2019

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 1 |

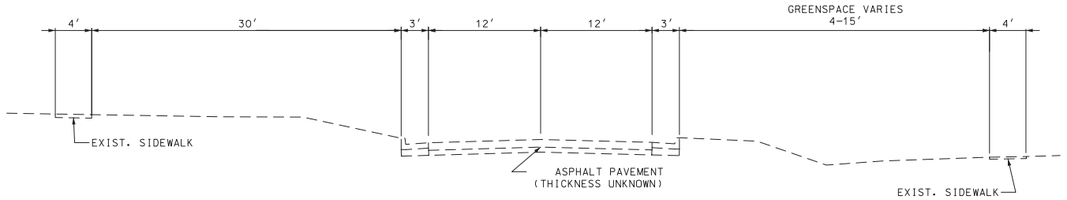
COUNTY: SCHUYLER
JOB NO.: J2P3222
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

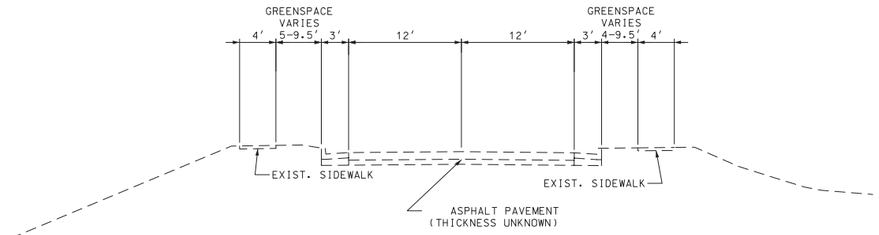
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

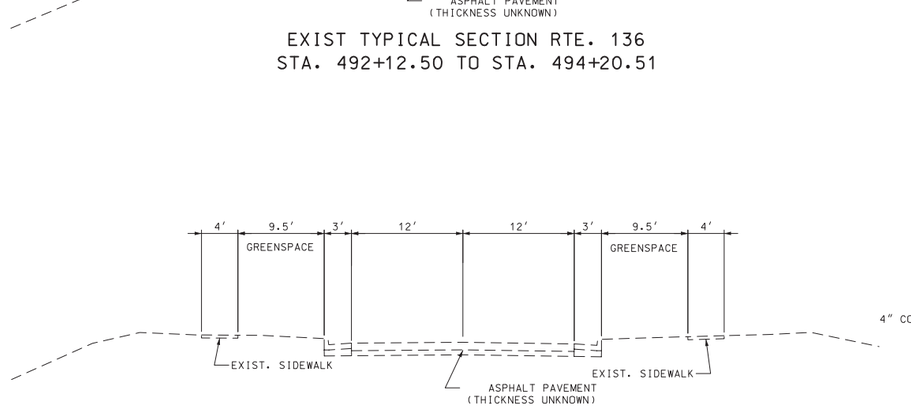
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



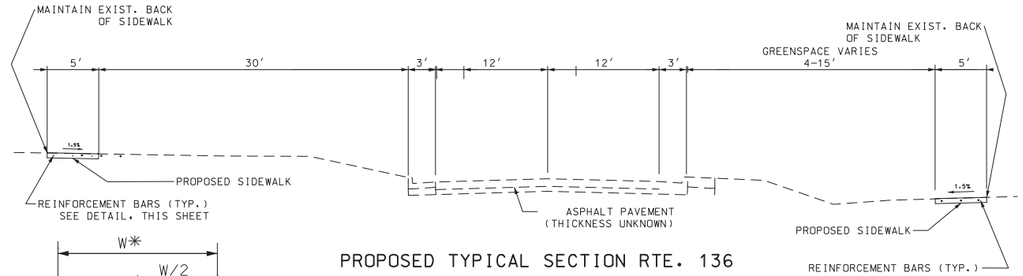

EXIST TYPICAL SECTION RTE. 136
STA. 491+13.05 TO STA. 492+12.50



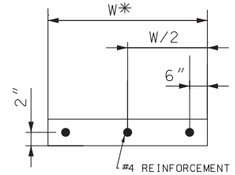

EXIST TYPICAL SECTION RTE. 136
STA. 492+12.50 TO STA. 494+20.51



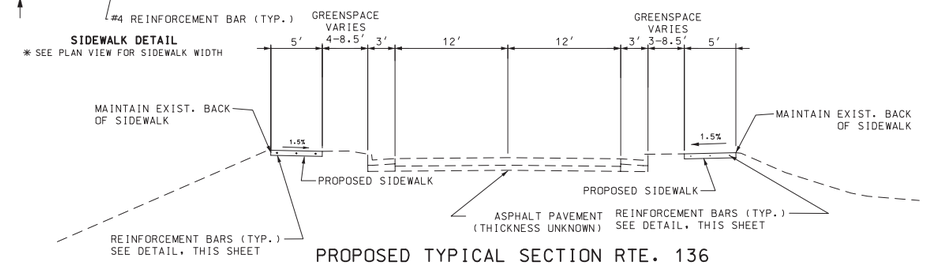

EXIST TYPICAL SECTION RTE. 136
STA. 494+20.51 TO STA. 499+36.42




PROPOSED TYPICAL SECTION RTE. 136
STA. 491+13.05 TO STA. 492+12.50




**SIDEWALK DETAIL**
* SEE PLAN VIEW FOR SIDEWALK WIDTH

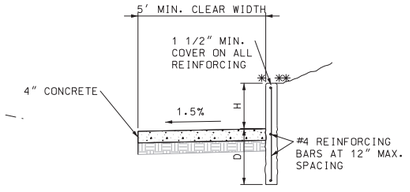



PROPOSED TYPICAL SECTION RTE. 136
STA. 492+12.50 TO STA. 494+20.51

NOTES:

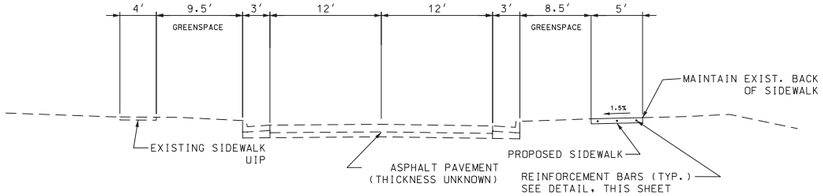
1.NO AGGREGATE BASE REQUIRED UNDER SIDEWALK. THREE 1/2" REBAR SHALL BE INSTALLED, AS SHOWN, FOR ADDITIONAL SUPPORT. NO DIRECT PAY FOR REINFORCEMENT

2.SEE STANDARD 608.10 FOR SIDEWALK DETAILS

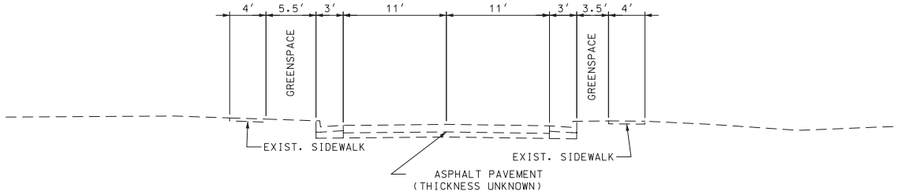



* ROUND TO 3/4" RADIUS
** ROUND TO 1/4" RADIUS
H = VARIES (2'-6" MAX. (30"))
D = BURY DEPTH (FORMING NOT REQUIRED)
THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
VERTICAL REINFORCING LENGTHS VARY AS NEEDED
DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

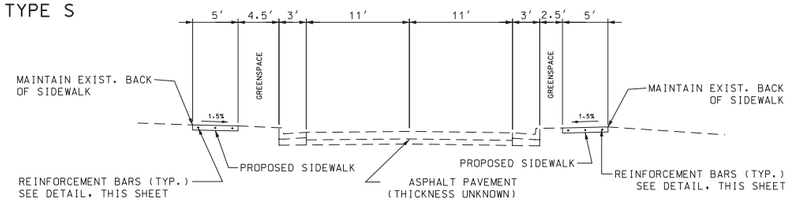
DETAIL
MODIFIED CONCRETE CURB
(OVER 6 IN. HEIGHT) TYPE S
NOT TO SCALE




PROPOSED TYPICAL SECTION RTE. 136
STA. 494+20.51 TO STA. 499+36.42




EXIST TYPICAL SECTION 4TH ST.
STA. 10+28.00 TO STA. 11+51.82




PROPOSED TYPICAL SECTION 4TH ST.
STA. 10+28.00 TO STA. 11+51.82

TYPICAL SECTIONS
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/5/2019

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 2 |

COUNTY
SCHUYLER

JOB NO.
J2P3222

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## REMOVAL OF IMPROVEMENTS

| ROUTE | STA. | STA. | LOCATION | DESCRIPTION | QUANTITY | UNITS | REMARKS |
|---|---|---|---|---|---|---|---|
| 136 | 491+15.94 | 491+35.86 | RT | SIDEWALK | 7.5 | SY | |
| 136 | 491+24.00 | 491+58.83 | RT | SAWCUT | 49.5 | LF | |
| 136 | 491+40.04 | 491+40.04 | RT | PAVED APPROACH | 43.7 | SY | |
| 136 | 491+45.39 | 492+33.20 | LT | SAWCUT | 125.6 | LF | |
| 136 | 491+45.80 | 491+89.35 | RT | SIDEWALK | 18 | SY | |
| 136 | 491+54.13 | 491+67.20 | LT | SIDEWALK | 19.5 | SY | |
| 136 | 491+89.85 | 491+89.85 | LT | PAVED APPROACH | 120.5 | SY | |
| 136 | 492+12.50 | 492+52.53 | LT | SIDEWALK | 15 | SY | |
| 136 | 492+49.19 | 492+90.24 | RT | SAWCUT | 58 | LF | |
| 136 | 492+55.23 | 492+64.81 | RT | SIDEWALK | 3.6 | SY | |
| 136 | 492+90.73 | 492+70.73 | RT | PAVED APPROACH | 32.9 | SY | |
| 136 | 493+96.67 | 494+16.31 | LT | SIDEWALK | 7.3 | SY | |
| 136 | 495+7.32 | 495+75.56 | RT | SIDEWALK | 63 | SY | |
| 136 | 495+27.88 | 496+55.88 | RT | SAWCUT | 183.9 | LF | |
| 136 | 495+60.69 | 495+88.69 | LT | SIDEWALK | 10.3 | SY | |
| 136 | 495+91.01 | 495+91.01 | RT | PAVED APPROACH | 189.9 | SY | |
| 136 | 496+07.09 | 499+36.36 | RT | SIDEWALK | 117.0 | SY | |
| 4TH ST | 11+05.95 | 11+38.77 | RT | SAWCUT | 53.9 | LF | |
| 4TH ST | 11+23.02 | 11+23.02 | RT | PAVED APPROACH | 42.3 | SY | |
| | | | TOTAL | 1 LUMP SUM | | | |

## SIDEWALK

| ROUTE | STA. | STA. | LOCATION | CONC. REINFORCED 4 IN. THICK | REMARKS |
|---|---|---|---|---|---|
| | | | | SY | |
| 136 | 491+15.94 | 491+19.90 | RT | 2.0 | |
| 136 | 491+55.86 | 491+64.92 | LT | 18.6 | |
| 136 | 491+45.60 | 491+62.89 | RT | 9.6 | |
| 136 | 491+67.85 | 491+88.53 | RT | 11.8 | |
| 136 | 491+88.11 | 492+64.55 | RT | 43.1 | |
| 136 | 492+34.99 | 492+52.53 | LT | 9.6 | |
| 136 | 492+76.85 | 495+44.17 | RT | 148.2 | |
| 136 | 493+96.88 | 494+16.31 | LT | 10.0 | |
| 136 | 495+60.92 | 495+88.69 | LT | 15.1 | |
| 136 | 496+37.73 | 499+36.36 | RT | 165.5 | |
| 4TH ST | 10+27.23 | 11+52.00 | LT | 77.9 | |
| 4TH ST | 10+27.99 | 11+50.00 | RT | 53.6 | |
| | | TOTAL | | 565 | |
| | | PAY TOTAL | | 565 | |

## CURB RAMP

| ROUTE | STA. | STA. | LOCATION | CURB RAMP | REMARKS |
|---|---|---|---|---|---|
| | | | | SY | |
| 136 | 491+19.90 | 491+36.03 | RT | 9.8 | |
| 136 | 491+62.32 | 491+68.42 | RT | 5.9 | |
| 136 | 491+54.13 | 491+66.92 | LT | 13.8 | |
| 136 | 492+12.50 | 492+35.00 | LT | 12.4 | |
| 136 | 495+44.17 | 495+59.81 | RT | 8.2 | |
| 136 | 496+18.48 | 496+37.73 | RT | 10.6 | |
| 4TH ST | 11+03.10 | 11+13.20 | RT | 5.6 | |
| 4TH ST | 11+30.97 | 11+42.58 | RT | 6.4 | |
| | | | TOTAL | 72.7 | |
| | | | PAY TOTAL | 72.7 | |

## MOBILIZATION

TOTAL = 1 LUMP SUM

## CONTRACTOR FURNISHED SURVEYING AND STAKING

TOTAL = 1 LUMP SUM

## ADJUSTING METERS AND VALVES

| ROUTE | STA. | LOCATION | EA | REMARKS |
|---|---|---|---|---|
| 136 | 491+34.28 | RT | 1 | ADJUST WATER METER |
| | | TOTAL | 1 PER EACH | |

## TREE TRIMMING

| ROUTE | STA. | STA. | LOCATION | DESCRIPTION | QUANTITY | UNITS | REMARKS |
|---|---|---|---|---|---|---|---|
| 4TH ST | 10+57.45 | 10+57.45 | RT | TREE TRIMMING | 1 | EA | |
| 4TH ST | 10+57.61 | 10+57.61 | LT | TREE TRIMMING | 1 | EA | |
| 4TH ST | 11+15.65 | 11+15.65 | LT | TREE TRIMMING | 1 | EA | |
| | | | | TOTAL | 3 | EA | |

## CONCRETE CURB - TYPE S

| ROUTE | STA. | STA. | LOCATION | 6 IN HEIGHT | MODIFIED | REMARKS |
|---|---|---|---|---|---|---|
| | | | | LF | LF | |
| 136 | 491+45.82 | 491+89.34 | RT | | 44.4 | |
| 136 | 491+45.98 | 491+62.51 | RT | 16.7 | | |
| 136 | 491+68.62 | 491+87.95 | RT | 20.0 | | |
| | | | TOTALS | 36.7 | 44.4 | |
| | | | PAY TOTALS | 37 | 44 | |

## SIDE STREETS

| ROUTE | STA. | LOCATION | TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) | PAVED APPROACH 8 IN. | REMARKS |
|---|---|---|---|---|---|
| | | | SY | SY | |
| 136 | 491+89.85 | LT | 120.5 | 120.5 | 5TH ST. INCLUDES INTEGRAL CURB |
| 136 | 495+91.01 | RT | 189.9 | 189.9 | 4TH ST. INCLUDES INTEGRAL CURB |
| | | SUBTOTALS | 310.4 | 310.4 | |
| | | PAY TOTALS | 310 | 310.4 | |

## PRIVATE APPROACHES

| ROUTE | STA. | LOCATION | TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) | PAVED APPROACH 7 IN. | REMARKS |
|---|---|---|---|---|---|
| | | | SY | SY | |
| 136 | 491+40.04 | RT | 43.8 | 43.8 | INCLUDES INTEGRAL CURB |
| 136 | 492+70.73 | RT | 32.9 | 32.9 | INCLUDES INTEGRAL CURB |
| 4TH ST | 11+23.02 | RT | 42.3 | 42.3 | INCLUDES INTEGRAL CURB |
| | | TOTALS | 119.0 | 119.0 | |
| | | PAY TOTALS | 119 | 119.0 | |

## TRUNCATED DOMES

| ROUTE | STA. | LOCATION | SQ FT | REMARKS |
|---|---|---|---|---|
| 136 | 491+60.73 | LT | 22.0 | |
| 136 | 491+65.35 | RT | 10.0 | |
| 136 | 492+16.42 | LT | 12.0 | |
| 136 | 495+56.30 | RT | 11.0 | |
| 136 | 496+21.91 | RT | 11.0 | |
| | TOTAL | | 66.0 | |
| | PAY TOTAL | | 66 | |

QUANTITY SHEETS
SHEET 1 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 12/5/2019
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY SCHUYLER
JOB NO. J2P3222
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| LINEAR GRADING CLASS 1 | | | | | |
|---|---|---|---|---|---|
| ROUTE | STA. | STA. | LOCATION | STA | REMARKS |
| 136 | 491+15.94 | 491+36.03 | RT | 0.2 | |
| 136 | 491+45.80 | 492+64.55 | RT | 1.2 | |
| 136 | 491+54.13 | 491+66.92 | LT | 0.6 | |
| 136 | 492+12.50 | 492+52.53 | LT | 0.4 | |
| 136 | 492+76.85 | 495+59.81 | RT | 2.8 | |
| 136 | 493+96.74 | 494+16.31 | LT | 0.2 | |
| 136 | 495+60.92 | 495+88.69 | LT | 0.3 | |
| 136 | 496+18.48 | 499+36.36 | RT | 3.1 | |
| 4TH ST | 10+27.23 | 11+52.00 | LT | 1.3 | |
| 4TH ST | 10+27.99 | 11+50.00 | RT | 1.2 | |
| | | TOTAL | | 11.3 | |
| | | PAY TOTAL | | 11.3 | |

| SCALPING VEGETATION | | | | | |
|---|---|---|---|---|---|
| ROUTE | STA. | STA. | LOCATION | LF | REMARKS |
| 136 | 492+52.58 | 493+96.78 | LT | 144.2 | |
| 136 | 494+16.23 | 495+60.74 | RT | 144.5 | |
| 136 | 495+88.76 | 496+92.33 | LT | 136.2 | |
| 136 | 497+13.34 | 497+95.60 | LT | 82.3 | |
| 136 | 498+17.52 | 499+01.00 | RT | 83.5 | |
| | | TOTAL | | 590.7 | |
| | | PAY TOTAL | | 591 | |

| SEEDING- COOL SEASON MIXTURES | | | | | |
|---|---|---|---|---|---|
| ROUTE | STA. | STA. | LOCATION | TALL FESCUE | REMARKS |
| | | | | SF | |
| 136 | 491+15.94 | 491+36.03 | RT | 20 | |
| 136 | 491+45.80 | 492+64.55 | RT | 79 | |
| 136 | 491+54.13 | 491+66.92 | LT | 32 | |
| 136 | 492+12.50 | 492+52.53 | LT | 23 | |
| 136 | 492+76.85 | 495+59.81 | RT | 133 | |
| 136 | 493+96.88 | 494+16.31 | LT | 10 | |
| 136 | 495+60.92 | 495+88.69 | LT | 14 | |
| 136 | 496+18.48 | 499+36.36 | RT | 133 | |
| 136 | 10+27.23 | 11+52.00 | LT | 139 | |
| 136 | 10+27.99 | 11+50.00 | RT | 92 | |
| | | | TOTAL | 675 | |
| | | | TOTAL (AC) | 0.1 | |
| | | | PAY TOTAL | 1 LUMP SUM | |

| TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES | | | | | | | |
|---|---|---|---|---|---|---|---|
| ROUTE | STA. | STA. | LOCATION | SILT FENCE | CURB INLET CHECKS | SEDIMENT REMOVAL | REMARKS |
| | | | | LF | EA | CY | |
| 136 | 491+20.37 | 491+20.37 | RT | | 1 | 1 | |
| 136 | 491+42.60 | 491+42.60 | LT | | 1 | 1 | |
| 136 | 491+60.36 | 491+60.36 | RT | | 1 | 1 | |
| 136 | 491+99.39 | 492+57.75 | LT | 80 | | 0.8 | |
| 136 | 492.36.41 | 492.36.41 | LT | | 1 | 1 | |
| 136 | 492+91.19 | 492+91.19 | RT | | 1 | 1 | |
| 136 | 493+23.37 | 493+23.37 | RT | 40 | | 0.4 | |
| 136 | 495+81.38 | 495+81.38 | RT | | 1 | 1 | |
| 136 | 495+98.26 | 495+98.26 | RT | | 1 | 1 | |
| 136 | 496+31.92 | 496+31.92 | RT | | 1 | 1 | |
| 136 | 499+09.05 | 499+09.05 | RT | | 1 | 1 | |
| | | | TOTALS | 120 | 9 | 10.2 | |
| | | | PAY TOTALS | 120 | 9 | 11 | |
| NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER INLET CHECK AND 1 CY PER 100 LF OF SILT FENCE | | | | | | | |

| GRAVEL (A) OR CRUSHED STONE (B) | | | | |
|---|---|---|---|---|
| ROUTE | STA. | LOCATION | SY | REMARKS |
| 136 | 491+40.04 | RT | 3.2 | 4 IN THICK |
| 136 | 492+70.73 | RT | 3.6 | 4 IN THICK |
| | | TOTAL | 6.8 | |
| | | PAY TOTAL | 7 | |

| ADDITIONAL MOBILIZATION FOR SEEDING |
|---|
| TOTAL = 2 EACH |

QUANTITY SHEETS
SHEET 2 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/5/2019

| ROUTE | STATE |
|---|---|
| 136 | MO |

| DISTRICT | SHEET NO. |
|---|---|
| NE | 3 |

COUNTY
SCHUYLER

JOB NO.
J2P3222

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE: 01-01-2019

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL AREA SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| WARNING SIGNS | | | | | | | | |
| W01-1L | 48X48 | 16.00 | | | | | | TURN (SYMBOL LEFT ARROW) |
| W01-1R | 48X48 | 16.00 | | | | | | TURN (SYMBOL RIGHT ARROW) |
| W01-2L | 48X48 | 16.00 | | | | | | CURVE (SYMBOL LEFT ARROW) |
| W01-2R | 48X48 | 16.00 | | | | | | CURVE (SYMBOL RIGHT ARROW) |
| W01-3L | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL LEFT ARROW) |
| W01-3R | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL RIGHT ARROW) |
| W01-4L | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL LEFT ARROW) |
| W01-4R | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL RIGHT ARROW) |
| W01-4bL | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4bR | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-4cL | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4cR | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-6 | 60X30 | 12.50 | | | | | | HORIZONTAL ARROW (SYMBOL) |
| W01-6a | 72X36 | 18.00 | | | | | | HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE) |
| W01-7 | 60X30 | 12.50 | | | | | | DOUBLE HEAD HORIZONTAL ARROW (SYMBOL) |
| W01-7a | 72X36 | 18.00 | | | | | | DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.) |
| W01-8 | 18X24 | 3.00 | | | | | | CHEVRON (SYMBOL) |
| W01-8a | 30X36 | 7.50 | | | | | | CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) |
| W03-1 | 48X48 | 16.00 | | | | | | STOP AHEAD (SYMBOL) |
| W03-2 | 48X48 | 16.00 | | | | | | YIELD AHEAD (SYMBOL) |
| W03-3 | 48X48 | 16.00 | | | | | | SIGNAL AHEAD (SYMBOL) |
| W03-4 | 48X48 | 16.00 | | | | | | BE PREPARED TO STOP |
| W03-5 | 48X48 | 16.00 | | | | | | SPEED LIMIT AHEAD |
| W04-1L | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM LEFT) |
| W04-1R | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM RIGHT) |
| W04-1aL | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W04-1aR | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W05-1 | 48X48 | 16.00 | | | | | | ROAD/BRIDGE/RAMP NARROWS |
| W05-3 | 48X48 | 16.00 | | | | | | ONE LANE BRIDGE |
| W05-5 | 48X48 | 16.00 | | | | | | NARROW LANES |
| W06-1 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY (SYMBOL) |
| W06-2 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY END (SYMBOL) |
| W06-3 | 48X48 | 16.00 | | | | | | TWO WAY TRAFFIC (SYMBOL) |
| W07-3a | 30X24 | 5.00 | | | | | | NEXT XX MILES (PLAQUE) |
| W08-1 | 48X48 | 16.00 | | | | | | BUMP |
| W08-2 | 48X48 | 16.00 | | | | | | DIP |
| W08-3 | 48X48 | 16.00 | | | | | | PAVEMENT ENDS |
| W08-4 | 48X48 | 16.00 | | | | | | SOFT SHOULDER |
| W08-5 | 48X48 | 16.00 | | | | | | SLIPPERY WHEN WET (SYMBOL) |
| W08-6 | 48X48 | 16.00 | | | | | | TRUCK CROSSING |
| W08-6c | 48X48 | 16.00 | | | | | | TRUCK ENTRANCE |
| W08-7 | 36X36 | 9.00 | | | | | | LOOSE GRAVEL |
| W08-7a | 36X36 | 9.00 | | | | | | FRESH OIL/LOOSE GRAVEL |
| W08-9 | 48X48 | 16.00 | | | | | | LOW SHOULDER |
| W08-11 | 48X48 | 16.00 | | | | | | UNEVEN LANES |
| W08-12 | 48X48 | 16.00 | | | | | | NO CENTER LINE |
| W08-15 | 48X48 | 16.00 | | | | | | GROOVED PAVEMENT |
| W08-15P | 30X24 | 5.00 | | | | | | MOTORCYCLE (PLAQUE) |
| W08-17 | 48X48 | 16.00 | | | | | | SHOULDER DROP-OFF (SYMBOL) |
| W08-17P | 30X24 | 5.00 | | | | | | SHOULDER DROP-OFF (PLAQUE) |
| W10-1 | 42RND. | 9.62 | | | | | | RAILROAD CROSSING |
| W012-1 | 24X24 | 4.00 | | | | | | DOUBLE DOWN ARROW (SYMBOL) |
| W012-2 | 48X48 | 16.00 | | | | | | LOW CLEARANCE (SYMBOL) |
| W012-2X | 24X18 | 3.00 | | | | | | LOW CLEARANCE (PLAQUE) |
| W012-2a | 84X24 | 14.00 | | | | | | OVERHEAD LOW CLEARANCE (FEET AND INCHES) |
| W012-4 | 120X60 | 50.00 | | | | | | LOW CLEARANCE XX FT XX IN XX MILES AHEAD |
| W012-5 | 120X60 | 50.00 | | | | | | WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD |
| W013-1 | 30X30 | 6.25 | | | | | | ADVISORY SPEED (PLAQUE) |
| W016-2 | 30X24 | 5.00 | | | | | | XXX FEET (PLAQUE) |
| W016-3 | 30X24 | 5.00 | | | | | | X MILE (PLAQUE) |
| W020-1 | 48X48 | 16.00 | 4 | 64.00 | | | 2,3 | ROAD/BRIDGE/RAMP WORK AHEAD |
| W020-2 | 48X48 | 16.00 | | | | | | DETOUR AHEAD |
| W020-3 | 48X48 | 16.00 | | | | | | ROAD CLOSED AHEAD |
| W020-4 | 48X48 | 16.00 | 2 | 32.00 | | | 12 | ONE LANE ROAD AHEAD |
| W020-5 | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED AHEAD |
| W020-5a | 48X48 | 16.00 | | | | | | 2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD |
| W020-6a | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED |
| W020-7a | 48X48 | 16.00 | 2 | 32.00 | | | 13 | FLAGGER (SYMBOL) WITH FLAGS |
| W021-2 | 36X36 | 9.00 | | | | | | FRESH OIL |
| W021-5 | 48X48 | 16.00 | 1 | 16.00 | | | 5 | SHOULDER WORK AHEAD |
| W021-5a | 48X48 | 16.00 | 1 | 16.00 | | | 6 | RIGHT SHOULDER CLOSED |
| W022-2 | 42X36 | 10.50 | | | | | | TURN OFF 2-WAY RADIO AND PHONE |
| W022-3 | 42X36 | 10.50 | | | | | | END BLASTING ZONE |
| G022-1 | 21X15 | 2.19 | | | | | | WET PAINT (ARROW PIVOTS) |

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| GUIDE SIGNS | | | | | | | | |
| E05-1 | 36X48 | 12.00 | | | | | | GORE EXIT |
| E05-2 | 48X36 | 12.00 | | | | | | EXIT OPEN |
| E05-2a | 48X36 | 12.00 | | | | | | EXIT CLOSED |
| G020-1 | 60X24 | 10.00 | | | | | | ROAD WORK NEXT XX MILES |
| G020-2 | 48X24 | 8.00 | | | | | | END ROAD WORK |
| G020-4 | 36X18 | 4.50 | | | | | | PILOT CAR FOLLOW ME |
| G020-4a | 42X30 | 8.75 | | | | | | PLEASE WAIT FOR PILOT CAR |
| G020-5aP | 36X24 | 6.00 | | | | | | WORK ZONE (PLAQUE) |
| M04-8a | 24X18 | 3.00 | | | | | | END DETOUR |
| M04-9L | 48X36 | 12.00 | | | | | | DETOUR (LEFT ARROW) |
| M04-9R | 48X36 | 12.00 | | | | | | DETOUR (RIGHT ARROW) |
| M04-9P | 48X12 | 4.00 | | | | | | STREET NAME (PLAQUE) |
| M04-10L | 48X18 | 6.00 | | | | | | DETOUR (ARROW LEFT) |
| M04-10R | 48X18 | 6.00 | | | | | | DETOUR (ARROW RIGHT) |
| REGULATORY SIGNS | | | | | | | | |
| R1-1 | 48X48 | 13.25 | | | | | | STOP |
| R1-2 | 48TRI. | 6.93 | | | | | | YIELD |
| R1-2a | 36X36 | 9.00 | | | | | | TO ONCOMING TRAFFIC (PLAQUE) |
| R1-3P | 30X12 | 2.50 | | | | | | ALL WAY (PLAQUE) |
| R2-1 | 36X48 | 12.00 | | | | | | SPEED LIMIT XX |
| R3-1 | 48X48 | 16.00 | | | | | | NO RIGHT TURN (SYMBOL) |
| R3-2 | 48X48 | 16.00 | | | | | | NO LEFT TURN (SYMBOL) |
| R3-3 | 36X36 | 9.00 | | | | | | NO TURNS |
| R3-4 | 48X48 | 16.00 | | | | | | NO U-TURN (SYMBOL) |
| R3-7L | 30X30 | 6.25 | | | | | | LEFT LANE MUST TURN LEFT |
| R3-7R | 30X30 | 6.25 | | | | | | RIGHT LANE MUST TURN RIGHT |
| R4-1 | 36X48 | 12.00 | | | | | | DO NOT PASS |
| R4-2 | 36X48 | 12.00 | | | | | | PASS WITH CARE |
| R4-8a | 36X48 | 12.00 | | | | | | KEEP LEFT (HORIZONTAL ARROW) |
| R4-7a | 36X48 | 12.00 | | | | | | KEEP RIGHT (HORIZONTAL ARROW) |
| R5-1 | 30X30 | 6.25 | | | | | | DO NOT ENTER |
| R5-1a | 36X24 | 6.00 | | | | | | WRONG WAY |
| R6-1L | 54X18 | 6.75 | | | | | | ONE WAY ARROW (LEFT) |
| R6-1R | 54X18 | 6.75 | | | | | | ONE WAY ARROW (RIGHT) |
| R6-2L | 24X30 | 5.00 | | | | | | ONE WAY (LEFT) |
| R6-2R | 24X30 | 5.00 | | | | | | ONE WAY (RIGHT) |
| R9-9 | 24X12 | 2.00 | 4 | 8.00 | | | 30 | SIDEWALK CLOSED |
| R9-11L | 24X18 | 3.00 | | | | | | SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE |
| R9-11R | 24X18 | 3.00 | | | | | | SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE |
| R10-6 | 24X36 | 6.00 | | | | | | STOP HERE ON RED (45° ARROW) |
| R11-2 | 48X30 | 10.00 | 1 | 10.00 | | | 11 | ROAD CLOSED |
| R11-3a | 60X30 | 12.50 | | | | | | ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY |
| R11-4 | 60X30 | 12.50 | 1 | 12.50 | | | 10 | ROAD CLOSED TO THRU TRAFFIC |
| CONST-3A | 60X48 | 20.00 | | | | | | FINE SIGN |
| CONST-3X | 56X12 | 4.67 | | | | | | SPEEDING/PASSING (PLATE) |
| MISCELLANEOUS SIGNS | | | | | | | | |
| CONST-5 | 48X36 | 12.00 | | | | | | POINT OF PRESENCE |
| CONST-4 | 96X48 | 32.00 | | | | | | POINT OF PRESENCE |
| CONST-7 | 48X24 | 8.00 | | | | | | RATE OUR WORK ZONE |
| CONST-7 | 72X36 | 18.00 | | | | | | RATE OUR WORK ZONE |
| CONST-8 | 48X36 | 12.00 | | | | | | WORK ZONE NO PHONE ZONE |

| 616-10.05 CONSTRUCTION SIGNS | TOTAL |
|---|---|
| | 191.00 |

| 616-10.10 RELOCATED SIGNS | TOTAL |
|---|---|
| | 0 |

| ITEM NUMBER | TOTAL QTY | DESCRIPTION |
|---|---|---|
| 6122008 | | IMPACT ATTENUATOR 40 MPH (SAND BARRELS) |
| 6122009 | | IMPACT ATTENUATOR 45 MPH (SAND BARRELS) |
| 6122010 | | IMPACT ATTENUATOR 50 MPH (SAND BARRELS) |
| 6122012 | | IMPACT ATTENUATOR 55 MPH (SAND BARRELS) |
| 6122014 | | IMPACT ATTENUATOR 60 MPH (SAND BARRELS) |
| 6122017 | | IMPACT ATTENUATOR 65 MPH (SAND BARRELS) |
| 6122019 | | IMPACT ATTENUATOR 70 MPH (SAND BARRELS) |
| 6122020 | | REPLACEMENT SAND BARREL |
| 6122030 | | IMPACT ATTENUATOR (RELOCATION) |
| 6123000A | | TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA) |
| 6161007 | | SPEED LIMIT AND STROBE LIGHT ASSEMBLY |
| 6161008 | 2 | ADVANCED WARNING RAIL SYSTEM |
| 6161009 | 2 | FLAG ASSEMBLY |
| 6161012 | | BUOYS (BOATS KEEP OUT) |
| 6161013 | | BUOYS (NO WAKE) |
| 6161014 | | SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT) |
| 6161024 | | CHANNELIZER (TRIM LINE) WITH LIGHT |
| 6161025 | 34 | CHANNELIZER (TRIM LINE) |
| 6161030 | 4 | TYPE III MOVEABLE BARRICADE |
| 6161031 | 1 | TYPE III MOVEABLE BARRICADE WITH LIGHTS |
| 6161033 | | DIRECTION INDICATOR BARRICADE |
| 6161034 | | DIRECTION INDICATOR BARRICADE, WITH LIGHT |
| 6161040 | | FLASHING ARROW PANEL |
| 6161047 | | TYPE III OBJECT MARKER |
| 6161052 | | WARNING LIGHT, TYPE B |
| 6161055 | | SEQUENTIAL FLASHING WARNING LIGHT |
| 6161070 | | TUBULAR MARKER |
| 6161095 | | RADAR SPEED ADVISORY SYSTEM |
| 6161096 | | CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED |
| 6161098A | | CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6161099 | | CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6162000A | | WORK ZONE TRAFFIC SIGNAL SYSTEM |
| 6162002 | | TEMPORARY LONG-TERM RUMBLE STRIPS |
| 6162004 | | TEMPORARY SHORT-TERM RUMBLE STRIPS |
| 6173600D | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED |
| 6173602B | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED |
| 6174000A | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION |
| 6175010A | | RELOCATING TEMPORARY TRAFFIC BARRIER |
| 6176000B | | TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED |
| 6177000B | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED |
| 6208064A | | TEMPORARY RAISED PAVEMENT MARKER |
| 9029400 | | TEMPORARY TRAFFIC SIGNALS |
| 9029401 | | TEMPORARY TRAFFIC SIGNALS AND LIGHTING |
| 6169902 | 4 | DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE |

QUANTITY SHEETS
SHEET 3 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/12/2019
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY SCHUYLER
JOB NO. J2P3222
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

BEGIN CONSTRUCTION AT STA. 491+13.05 ℄ ROUTE 136
FED. IMPROV. BEGINS AT A POINT LOCATED
4,081.17′ SOUTH AND 1,519.71′ EAST OF
NORTHWEST CORNER FOR SECTION 13 T66N R15W

CERTIFIED LAND CORNER

STA. 491+13.05 CENTERLINE OF ROUTE 136 IS LOCATED 4354.94′ ON A BEARING OF S 20°25′26″ E OF THE NORTH ¼ CORNER OF SECTION 13-66-15 RECORDED IN CORNER DOCUMENT NO. 600-82404.

CURVE C1
PI 491+95.60
PC 490+38.93
PT 493+52.26
Δ 1° 33′ 59.9″ (LT)
D 0° 30′ 00.0″
L 313.33′
T 156.67′
R 11,459.16′

NE 1/4 SW 1/4
S13 T66N R15W

RAMP/LANDING
SIDEWALK
TRUNCATED DOMES
(S) SIDEWALK SECTION
(R) RAMP
(T) TRANSITION
(L) LANDING

RONNIE LEE MILLER SR
NO ACQUISITION

(1)
TILMAN W. SORRELL JR & NANCY SORRELL HERRON
110 SF TEMP. ESM′T.
0.7 AC REMAINING

1/4 1/4 SECTION LINE

BETTY J.MORRIS & CAROLYN S.RIGDON
NO ACQUISITION

JAMASA J.STEGGALL
NO ACQUISITION

490

495

(H)

+66.78 36.5′
+70.00 36.9′
+70.00 40.0′
+51.48 49.1′
+51.48 71.0′
+56.54 70.9′
+60.00 50.0′
+40.00 50.0′
+27.50 65.0′

S 1° 52′ 44″ W
5TH STREET

EXISTING CITY R/W

TEMP. CONST. ESM′T

TIE INTO EXISTING SIDEWALK

TIE INTO EXIST. EDGE OF PAVEMENT

REMOVE VEGETATION ALONG ALL EXISTING SIDEWALK WITHIN PROJECT LIMITS

REMOVE VEGETATION ALONG ALL EXISTING SIDEWALK WITHIN PROJECT LIMITS

STA. 491+89.85
32′ WIDE
8″ PCC PA LT. NO PIPE
EX. SLOPE 6.0%

EXISTING R/W

20′ PASSING AREA

LOCATION APPROXIMATE
ENGINEER TO VERIFY NONCOMPLIANT CROSS SLOPE AND REPLACE APPROPRIATE NUMBER OF PANELS

DND CULVERT

TIE INTO EXIST. CONCRETE JOINT

PC STA 490+38.93

PT STA 493+52.26

EDGE OF PAVEMENT

ROUTE 136

S 1° 18′ 00″ W

N 89° 44′ 00″ E

STA 491+85.60 ROUTE 136 =
STA 10+00.00 5TH ST

STA. 495+25.00

MATCHLINE STA.

UIP PIPE

TYPE S CURB

MODIFIED TYPE S CURB

TEMP. CONST. ESM′T

AGGREGATE TO TIE INTO EXSTING DRIVE

TIE-IN SECTION

ADJUST WATER METER

TIE INTO EXIST. CONCRETE JOINT

AGGREGATE TO TIE INTO EXSTING DRIVE

STA. 491+40.04
10′ WIDE
7″ PCC PA RT. NO PIPE
EX. SLOPE 10.2%

STA. 492+70.73
12′ WIDE
7″ PCC PA RT. NO PIPE
EX. SLOPE 2.4%

DARL D. & LEANNA P. BUCKALLEW
NO ACQUISITION

(2)
MARK L. & AMY L. GARR
54 SF TEMP. ESM′T.
0.9 AC REMAINING

TRENTON D. TALLMAN & ERIN J. FREDERICK
NO ACQUISITION

(3)
BENJAMIN & LINDSIE KELLY
144 SF TEMP. ESM′T.
0.4 AC REMAINING

GENERAL NOTES

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 491+13.05 TO STA. 499+36.42 ROUTE 136, A DISTANCE OF 0.156 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE STATE PLANE BEARING, NAD83, CENTRAL ZONE.
4. ALL CURB RAMPS AND SIDEWALK WITHIN THE PROJECT LIMITS AND SHOWN TO USE IN PLACE SHALL BE FIELD VERIFIED FOR COMPLIANCE BY THE CONTRACTOR. IF AREAS ARE FOUND TO BE NON-COMPLIANT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
5. ALL SEEDING SHALL BE PERFORMED THROUGHOUT THE DURATION OF THE PROJECT. DISTURBED AREAS SHALL BE MINIMIZED TO BE LESS THAN 1 ACRE AT ALL TIMES.
6. UNLESS DIRECTED BY THE ENGINEER, EROSION CONTROL SHALL BE LIMITED TO DEVICES INCLUDED IN THE CONTRACT.
7. SEE SPECIAL SHEETS FOR ENTRANCE PROFILES.
8. ALL NEW SIDEWALK SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS. RESIDENTIAL SIDEWALK CONNECTIONS SHALL MATCH EXISTING WIDTH.
9. LOCATION OF BACK SIDE OF PROPOSED SIDEWALK SHALL MAINTAIN THE BACK SIDE OF EXISTING SIDEWALK, UNLESS OTHERWISE NOTED ON THE PLANS.

SE 1/4 SW 1/4
S13 T66N R15W

SCALE
0 20 40 60

PLAN SHEET
SHEET 1 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

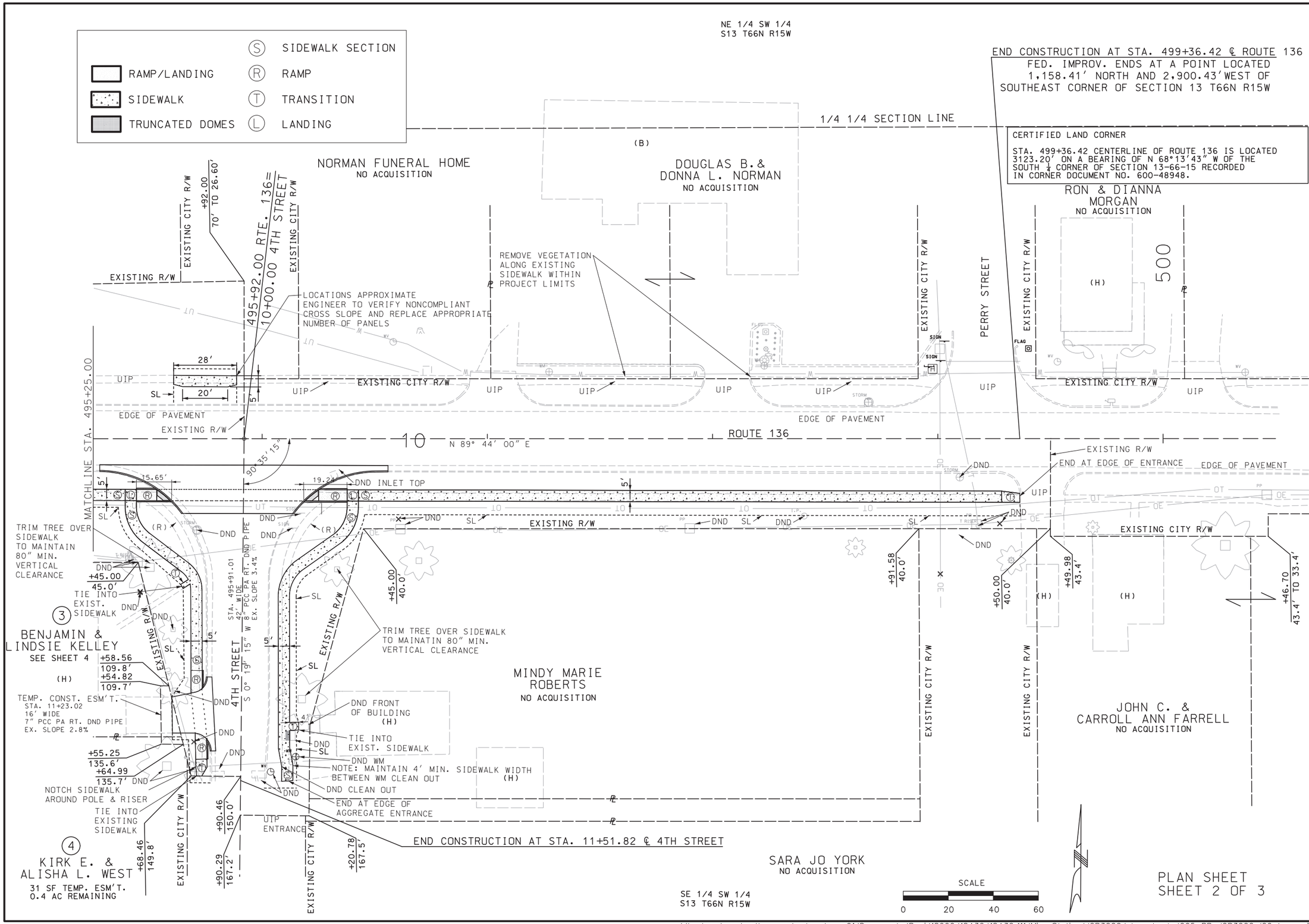
DATE PREPARED 12/16/2019
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 4
COUNTY SCHUYLER
JOB NO. J2P3222
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




PLAN SHEET
SHEET 2 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 12/17/2019 |
| ROUTE | 136 |
| STATE | MO |
| DISTRICT | NE |
| SHEET NO. | 5 |
| COUNTY | SCHUYLER |
| JOB NO. | J2P3222 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

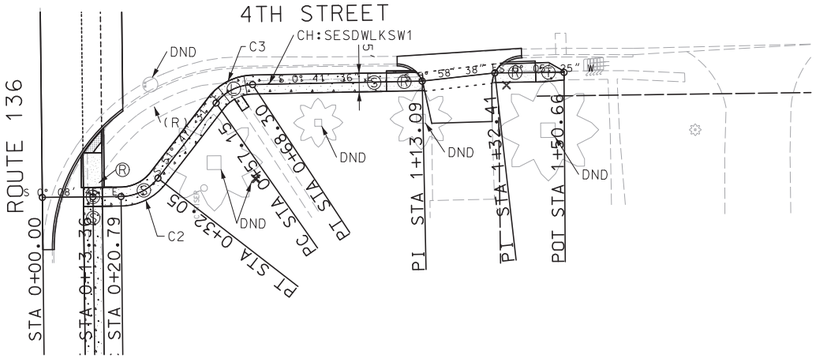
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

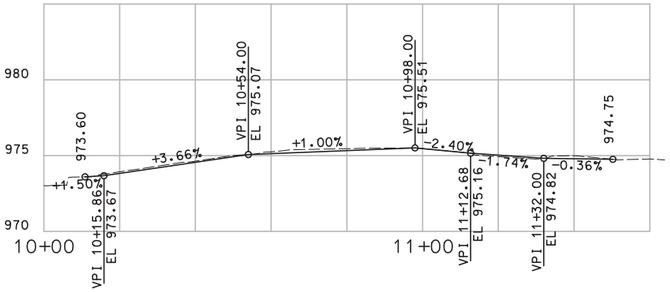
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

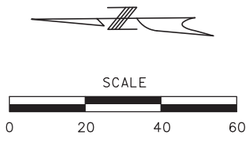
pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.111/MicroStation/J2P3222/plan_sheets/005_PP_J2P3222_I20.dgn 7:44:21 AM 12/17/2019

CURVE C2
PI 0+26.84
PC 0+20.79
PT 0+32.05
Δ 51° 38′ 46.2″ (LT)
D 458° 21′ 58.4″
L 11.27′
T 6.05′
R 12.50′

CURVE C3
PI 0+63.12
PC 0+57.15
PT 0+68.30
Δ 51° 05′ 55.4″ (RT)
D 458° 21′ 58.4″
L 11.15′
T 5.98′
R 12.50′

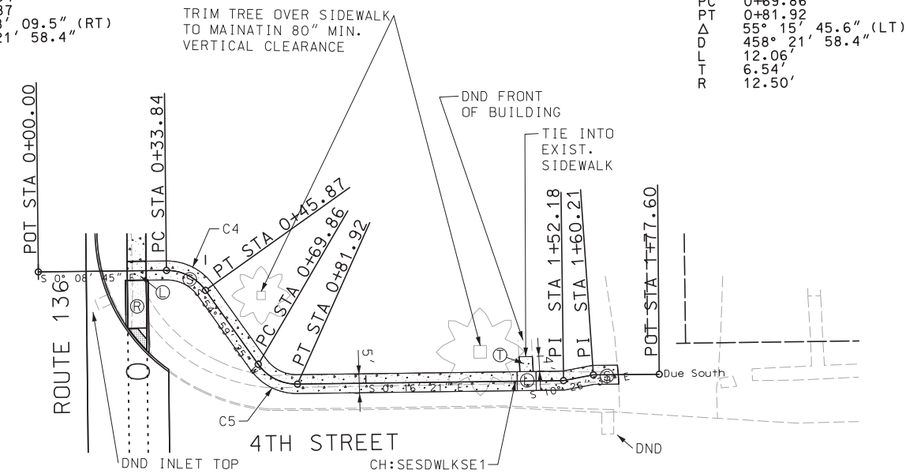


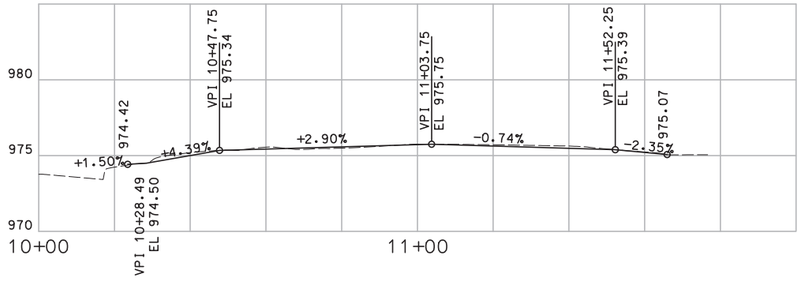



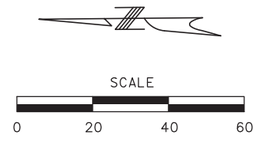




CURVE C4
PI 0+40.37
PC 0+33.84
PT 0+45.87
Δ 55° 08′ 09.5″ (RT)
D 458° 21′ 58.4″
L 12.03′
T 6.53′
R 12.50′

CURVE C5
PI 0+76.40
PC 0+69.86
PT 0+81.92
Δ 55° 15′ 45.6″ (LT)
D 458° 21′ 58.4″
L 12.06′
T 6.54′
R 12.50′




| | |
|---|---|
| RAMP/LANDING | (S) SIDEWALK SECTION |
| SIDEWALK | (R) RAMP |
| TRUNCATED DOMES | (T) TRANSITION |
| | (L) LANDING |

PLAN–PROFILE SHEET
SHEET 3 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE–25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/17/2019

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 6 |

COUNTY
SCHUYLER

JOB NO.
J2P3222

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

# Coordinate Point Listing
# Missouri Coordinate System of 1983

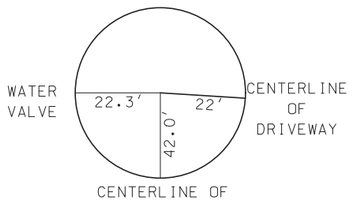
| COORDINATES FOR ROUTE 136 | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | MODIFIED STATE PLANE | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| P.C. STATION | 490+38.93 | 1,707,478.4890 | 1,707,478.4890 | 1,707,662.6337 | 1,707,662.6337 | CHAIN: CL 136 | PC CURVE BUTTON |
| 906 | 491+13.05 | 1,707,477.0472 | 1,630,988.3110 | 1,707,661.1918 | 1,631,164.2066 | CHAIN: CL 136 | BEGIN PROJECT |
| P.I. STATION | 491+95.60 | 1,707,474.9349 | 1,707,474.9349 | 1,707,659.0792 | 1,707,659.0792 | CHAIN: CL 136 | PI CURVE BUTTON |
| P.T. STATION | 493+52.26 | 1,707,475.6639 | 1,707,475.6639 | 1,707,659.8083 | 1,707,659.8083 | CHAIN: CL 136 | PT CURVE BUTTON |
| 907 | 499+36.42 | 1,707,478.3822 | 1,631,811.5775 | 1,707,662.5269 | 1,631,987.5619 | CHAIN: CL 136 | END PROJECT |

| COORDINATES FOR 5TH STREET | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | MODIFIED STATE PLANE | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| 1001 | 10+00.00 | 1,707,476.1001 | 1,631,060.8469 | 1,707,660.2446 | 1,631,236.7503 | CHAIN: EX 5 ST CL | POT |
| 1002 | 11+94.46 | 1,707,668.4316 | 1,631,067.1562 | 1,707,852.5968 | 1,631,243.0603 | CHAIN: EX 5 ST CL | POT |

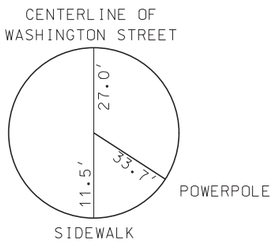
| COORDINATES FOR 4TH STREET | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | MODIFIED STATE PLANE | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| 1000 | 10+00.00 | 1,707,476.7795 | 1,631,467.1985 | 1,707,660.9240 | 1,631,643.1457 | CHAIN: CL 4TH | POT |
| 1004 | 11+51.82 | 1,707,324.9782 | 1,631,466.3483 | 1,707,509.1064 | 1,631,642.2954 | CHAIN: CL 4TH | END PROJECT |
| 1003 | 12+50.00 | 1,707,226.8104 | 1,631,465.7985 | 1,707,410.9280 | 1,631,641.7456 | CHAIN: CL 4TH | POT |

MISSOURI STATE PLANE CENTRAL ZONE, NAVD 88, NAD 83
COORDINATES LISTED ARE STATE PLANE (GRID) COORDINATES - U.S. SURVEY FEET
MODIFIED (GROUND) COORDINATES X 0.999892166 = STATE PLANE (GRID) COORDINATES

MISSOURI STATE PLANE CENTRAL ZONE, NAVD 88
COORDINATES LISTED ARE MODIFIED (GROUND) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.000107846 = MODIFIED (GROUND) COORDINATES




POINT 500
IRON BAR
MODIFIED STATE PLANE
N:1707703.439
E:1631731.411
ELEV.973.521




POINT 501
IRON BAR
MODIFIED STATE PLANE
N: 1707644.195
E: 1630675.864
ELEV. 974.396

NOT TO SCALE

COORDINATE POINTS SHEET
REFERENCE POINTS SHEET
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/12/2019
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 7
COUNTY SCHUYLER
JOB NO. J2P3222
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

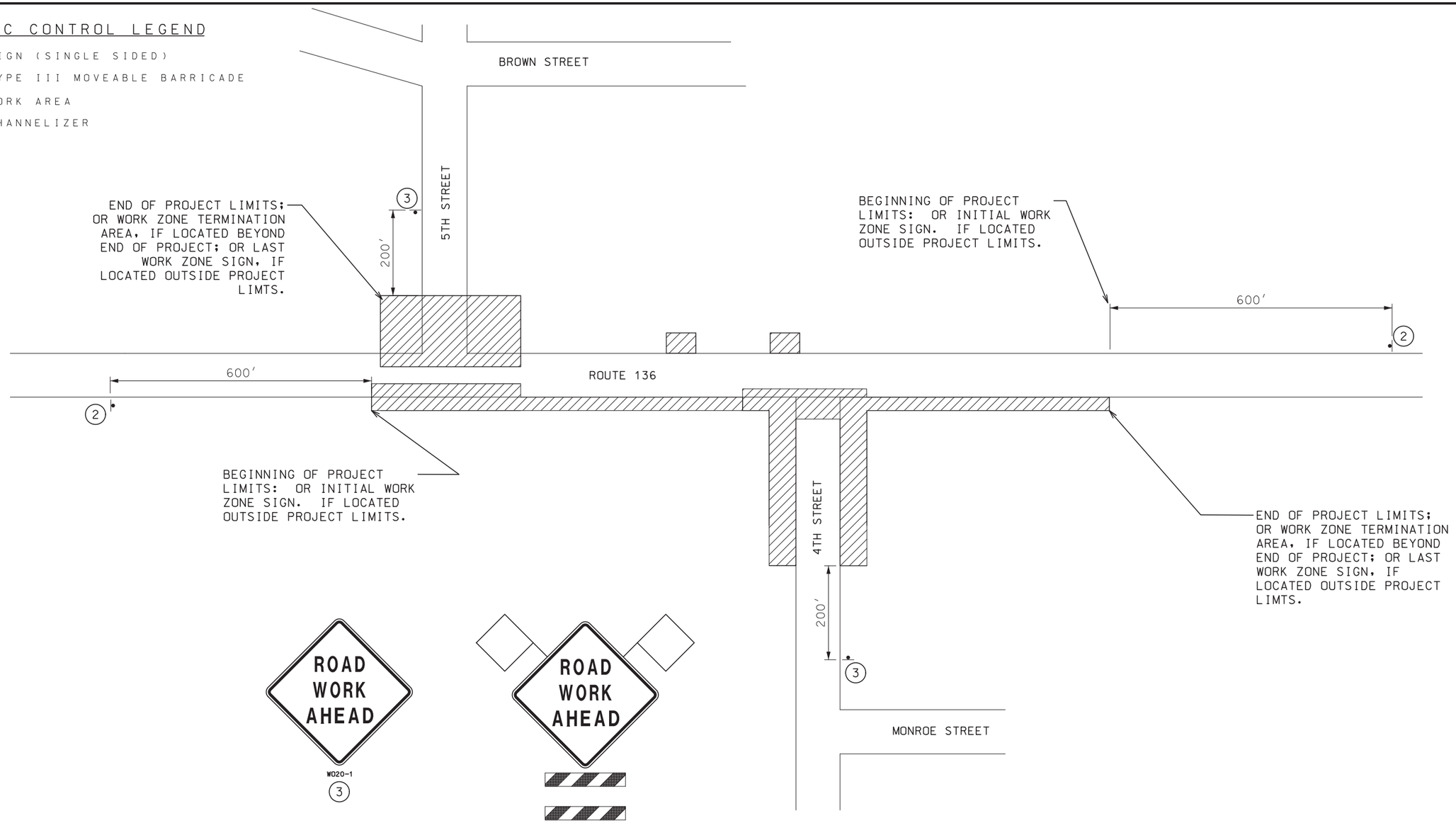
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

c:\pwdata\topeka01\aap01686@bartwest.com\dms42713\007_CP_RP_J2P3222_l1.dgn 1:19:06 PM 9/12/2019

## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- TYPE III MOVEABLE BARRICADE
- WORK AREA
- CHANNELIZER



NOTES:
(1) ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(2) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(3) ALL SIGNS ON THIS SHEET SHALL REMAIN IN PLACE THOUGHOUT THE DURATION OF CONSTRUCTION.

(4) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

NOT TO SCALE

TRAFFIC CONTROL PLAN
BEGIN/END OF SIDEWALK PROJECT
SHEET 1 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 9/12/2019
ROUTE: 136 | STATE: MO
DISTRICT: NE | SHEET NO.: 8
COUNTY: SCHUYLER
JOB NO.: J2P3222
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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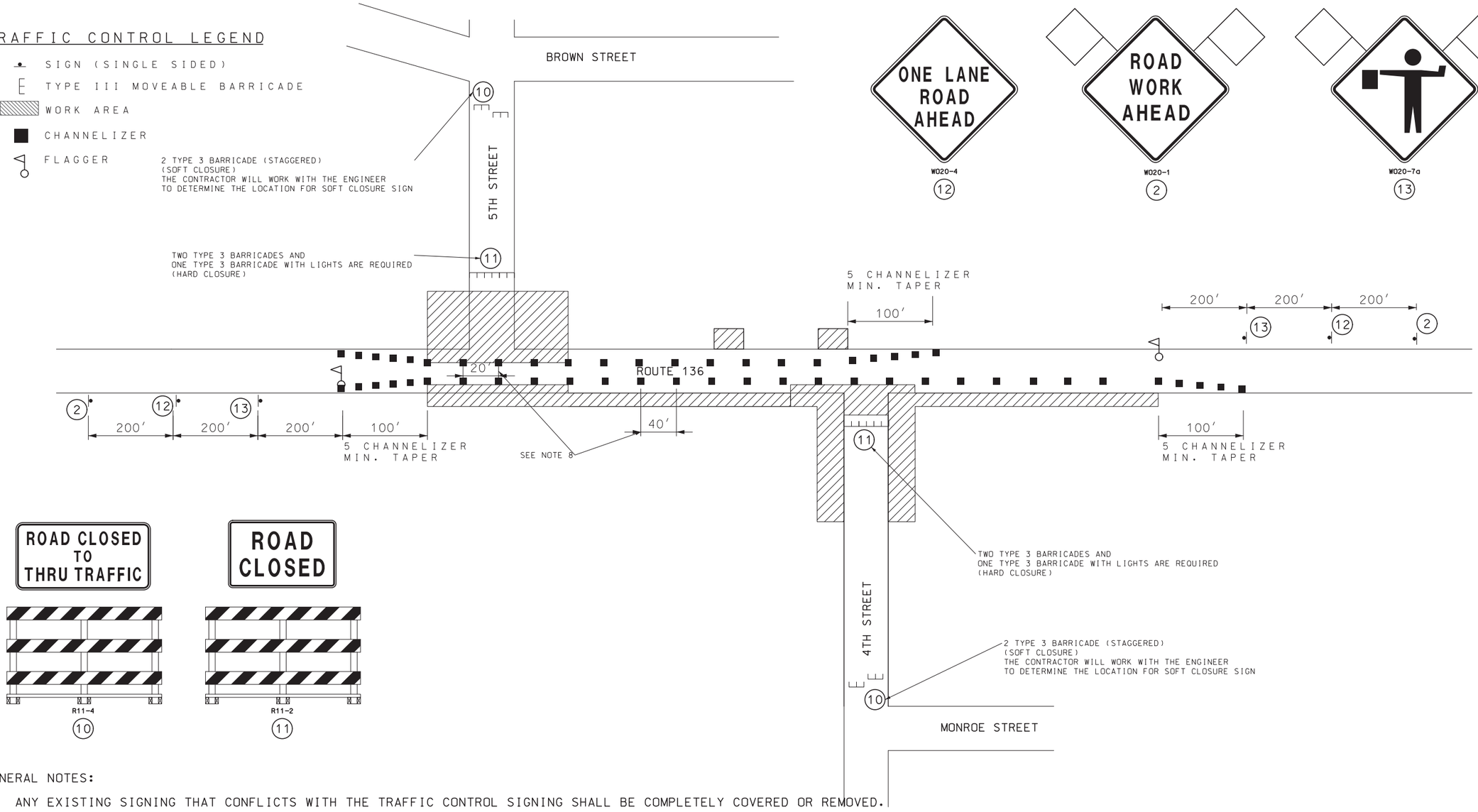
## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- TYPE III MOVEABLE BARRICADE
- WORK AREA
- CHANNELIZER
- FLAGGER










GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. QUANTITIES FOR TRAFFIC CONTROL ASSUMES ONE LANE DROP. LOCATIONS OF WORK AREAS SHALL BE APPROVED BY THE ENGINEER.
3. WORK SHALL BE CONDUCTED ON ONE SIDE OF ROUTE 136 AT TIME.
4. CLOSURE OF 4TH STREET SHALL NOT OCCUR AT THE SAME TIME AS THE CLOSURE OF 5TH STREET.
5. DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
6. ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.
7. AUTOMATED FLAGGER ASSISTANCE DEVICES AND PORTABLE SIGNAL FLAGGING DEVICES MAY BE USED AS AN ALTERNATIVE. SEE EPG 616.8.10A AND EPG 616.8.10C
8. CHANNELIZERS SPACED AT MINIMUM 40′ IN WORK AREAS AND 20′SPACING IN FRONT OF ENTRANCES DURING CLOSURE. SPACING MAY BE REDUCED TO DISCOURAGE ENCROACHMENT.
9. THE CONTRACTOR SHALL COORDINATE WITH RESIDENTS WHOSE DRIVEWAY IS TO BE RECONSTRUCTED IN ADVANCE TO PROVIDE ACCESS TO THE PROPERTY.
10. DURING NON-WORKING HOURS ALL LANES SHALL BE OPEN AND CHANNELIZERS MOVED TO THE SHOULDER.
11. LANE WIDTHS SHALL BE A MINIMUM OF 10′.

NOT TO SCALE

TRAFFIC CONTROL PLAN
STREET & LANE CLOSURE
SHEET 2 OF 4

# SIDE STREET CLOSURE & DRIVE REPLACEMENT

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

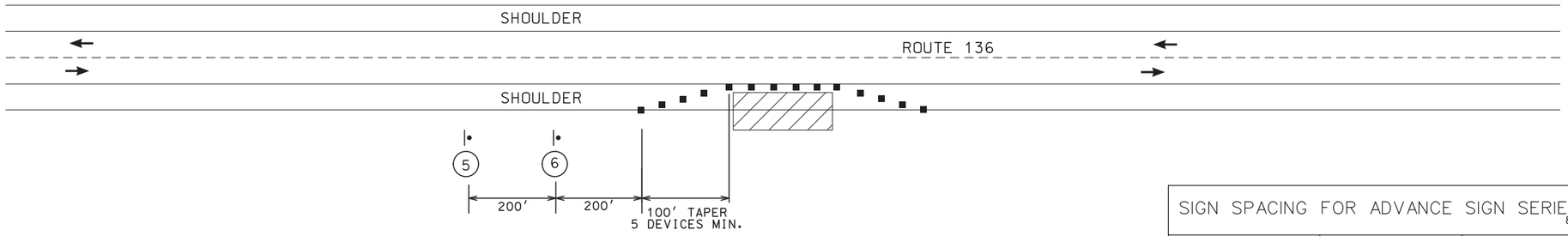
DATE PREPARED 9/12/2019
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 9
COUNTY SCHUYLER
JOB NO. J2P3222
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

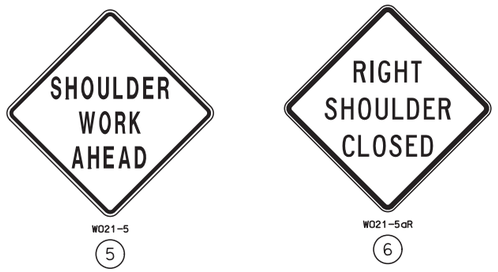
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK AREA

GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. QUANTITIES FOR TRAFFIC CONTROL ASSUMES TWO LANE DROPS. LOCATIONS OF WORK AREAS SHALL BE APPROVED BY THE ENGINEER.
3. DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
4. ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.
5. LAYOUT IS SHOWN FOR ONE DIRECTIONAL TRAFFIC BUT SHOULD BE MIRRORED FOR OPPOSITE DIRECTIONAL TRAFFIC.

| LONGITUDINAL BUFFER SPACE | |
|---|---|
| POSTED SPEED PRIOR TO CONSTRUCTION, MPH | LENGTH, FT. |
| UP TO 35 | 280 |
| 40–45 | 400 |
| 50–55 | 560 |
| 60–70 | 840 |

| SIGN SPACING FOR ADVANCE SIGN SERIES [8,9] | | |
|---|---|---|
| POSTED SPEED MPH (P) | NON-DIVIDED HIGHWAYS (S) | DIVIDED HIGHWAYS (S) |
| 0-35 | 200 FT | 200 FT |
| 40-45 | 350 FT | 500 FT |
| 50-55 | 500 FT | 1000 FT |
| 60-70 | SA - 1000 FT, SB - 1500 FT AND SC - 2640 FT | |

8) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
9) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TAPER LENGTH (L)
L = W X P FOR 40 MPH OR MORE
L = $\frac{WP^{9}}{60}$ FOR 35 MPH OR LESS
L = TAPER LENGTH IN FEET
W = LATERAL SHIFT IN FEET
P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

| TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES [2] | | | | |
|---|---|---|---|---|
| SPEED MPH (S) [1] | TAPER LENGTHS (L) FOR LATERAL SHIFTS (W) FT [2] | | CHANNELIZER SPACING [3], FT | |
| | SHOULDER [4] (T1) | LANE [5] (T2) | TAPERS | BUFFER/ WORK AREA |
| UP TO 35 | 70 | 245 | 35[6] | 40[6] |
| 40-45 | 150 | 540 | 40[6] | 80[6] |
| 50-55 | 185 | 660 | 50[7] | 80[7] |
| 60-70 | 235 | 840 | 60[7] | 120[7] |

1) SPEED LIMIT IS BASED ON POSTED SPEED LIMIT.
2) TAPER LENGTHS MAY BE ADJUSTED TO ACCOMMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
3) CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
4) BASED ON 10 FT. SHOULDER WIDTH.
5) BASED ON 12 FT. LANE WIDTH.
6) SPACING REDUCED TO 1/2 AT INTERSECTIONS.
7) SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

NOT TO SCALE

TRAFFIC CONTROL PLAN
SHOULDER CLOSURE
SHEET 3 OF 4

## SHOULDER CLOSURE – NON-DIVIDED HIGHWAY

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
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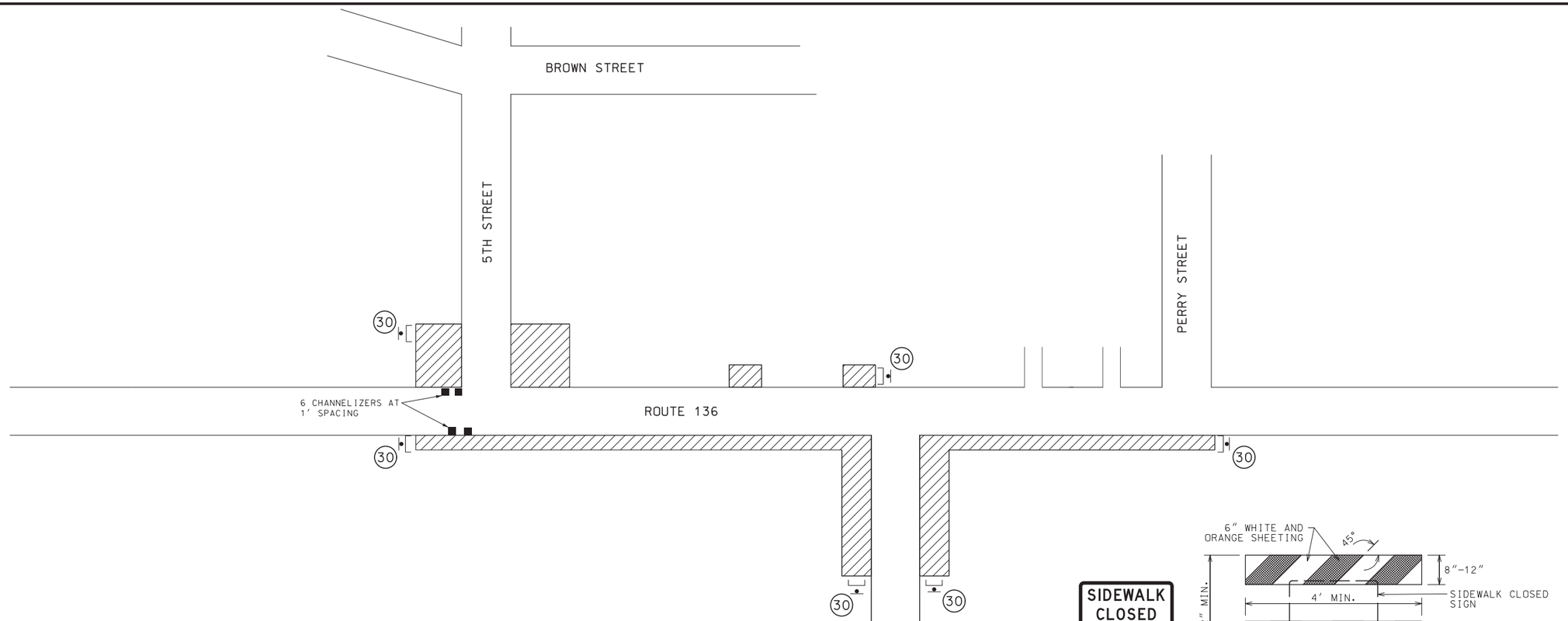
DATE PREPARED 9/12/2019
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 10
COUNTY SCHUYLER
JOB NO. J2P3222
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

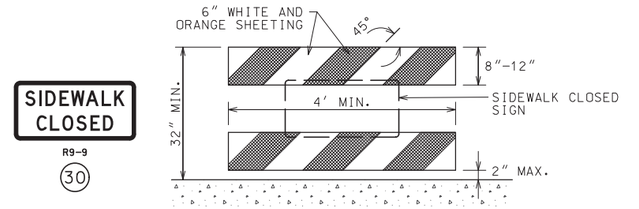
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




INSTALL DETECTABLE PEDESTRIAN CHANNELIZING BARRICADES AND SIDEWALK CLOSED SIGNS AS DIRECTED BY THE ENGINEER.

WHERE CHANNELIZING DEVICES ARE USED TO CHANNELIZE PEDESTRIANS, THERE SHALL BE CONTINUOUS DETECTABLE BOTTOM AND TOP SURFACES TO BE DETECTABLE TO USERS OF LONG CANES.

**DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE**

GENERAL NOTES:

1. SIGN SHOULD BE PLACED AT NEAREST INTERSECTION LEADING UP TO SIDEWALK UNDER CONSTRUCTION STATING SIDEWALK CLOSED.
2. ALL BUSINESSES SHOULD STILL REMAIN ACCESSIBLE BY ANOTHER ENTRANCE.
3. CONTRACT QUANTITIES FOR PEDESTRIAN BARRICADE AND SIDEWALK CLOSED AHEAD DO NOT ALLOW FOR ALL SIDEWALKS TO BE CLOSED AT ONE TIME.THE CONTRACTOR SHALL PHASE CONSTRUCTION TO COMPLETE ONE SECTION AT A TIME BEFORE MOVING ON TO THE NEXT.
4. ALL SIGNS AND CHANNELIZERS MAY BE BE RELOCATED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- TYPE III MOVEABLE BARRICADE
- WORK AREA
- CHANNELIZER

**SIDEWALK CLOSURE**

TRAFFIC CONTROL PLAN
SIDEWALK CLOSURE
SHEET 4 OF 4

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/12/2019

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 11 |

COUNTY: SCHUYLER
JOB NO.: J2P3222
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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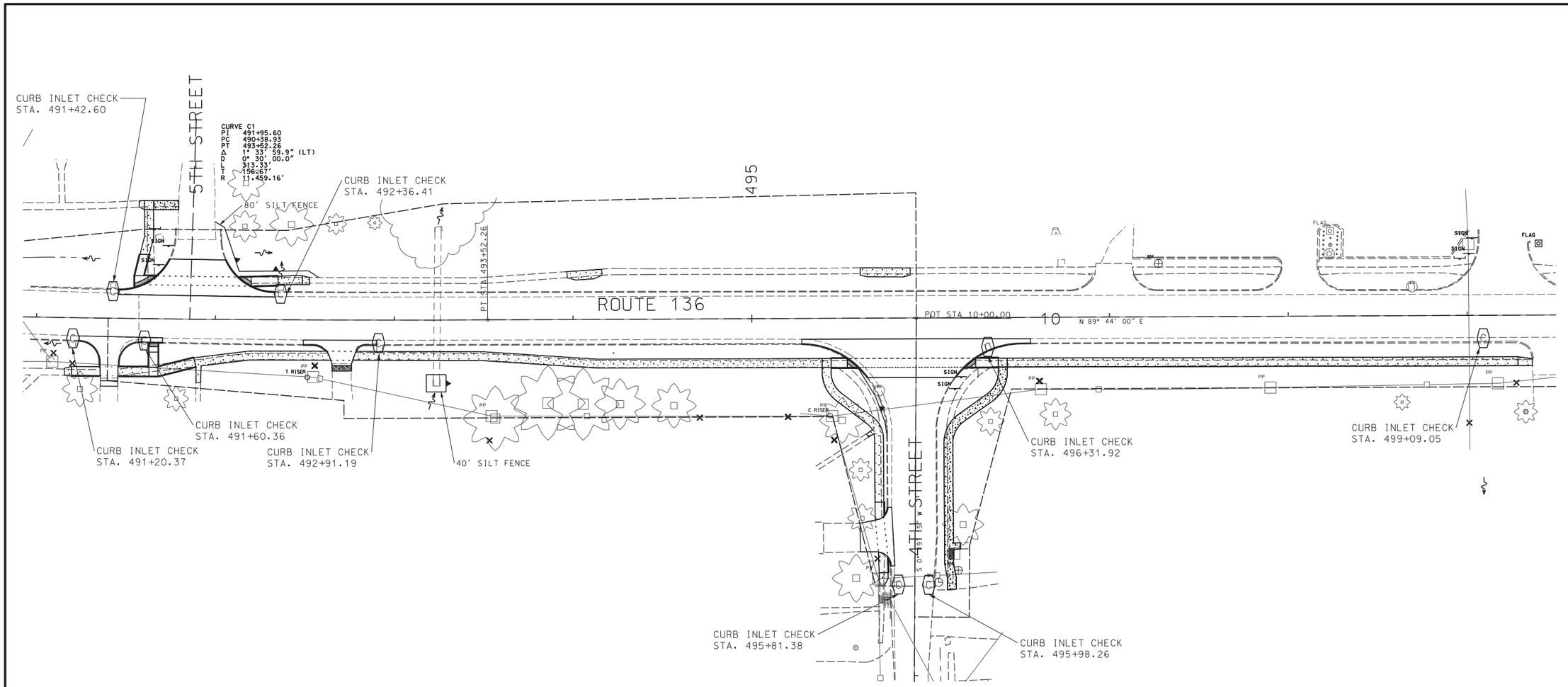


## TEMPORARY EROSION CONTROL LEGEND

CURB INLET CHECK

SILT FENCE

NOTE:

SEE STD PLAN 806.10 FOR TEMPORARY EROSION CONTROL DETAILS

EROSION CONTROL PLANS WERE DEVELOPED USING EXISTING VEGETATION WITHIN R/W AS A BMP. IF THE ENGINEER DETERMINES THE CONTRACTOR'S METHODS REQUIRE ADDITIONAL EROSION CONTROL MEASURE, THE CONTRACTOR SHALL INSTALL THEM AT NO ADDITIONAL COST.

CONTRACTOR TO PLACE SODDING WITHIN 7 DAYS OF LINEAR GRADING.

SCALE

0 30 60 90

EROSION CONTROL
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED,SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/12/2019

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 12 |

COUNTY
SCHUYLER

JOB NO.
J2P3222

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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105 WEST CAPITOL
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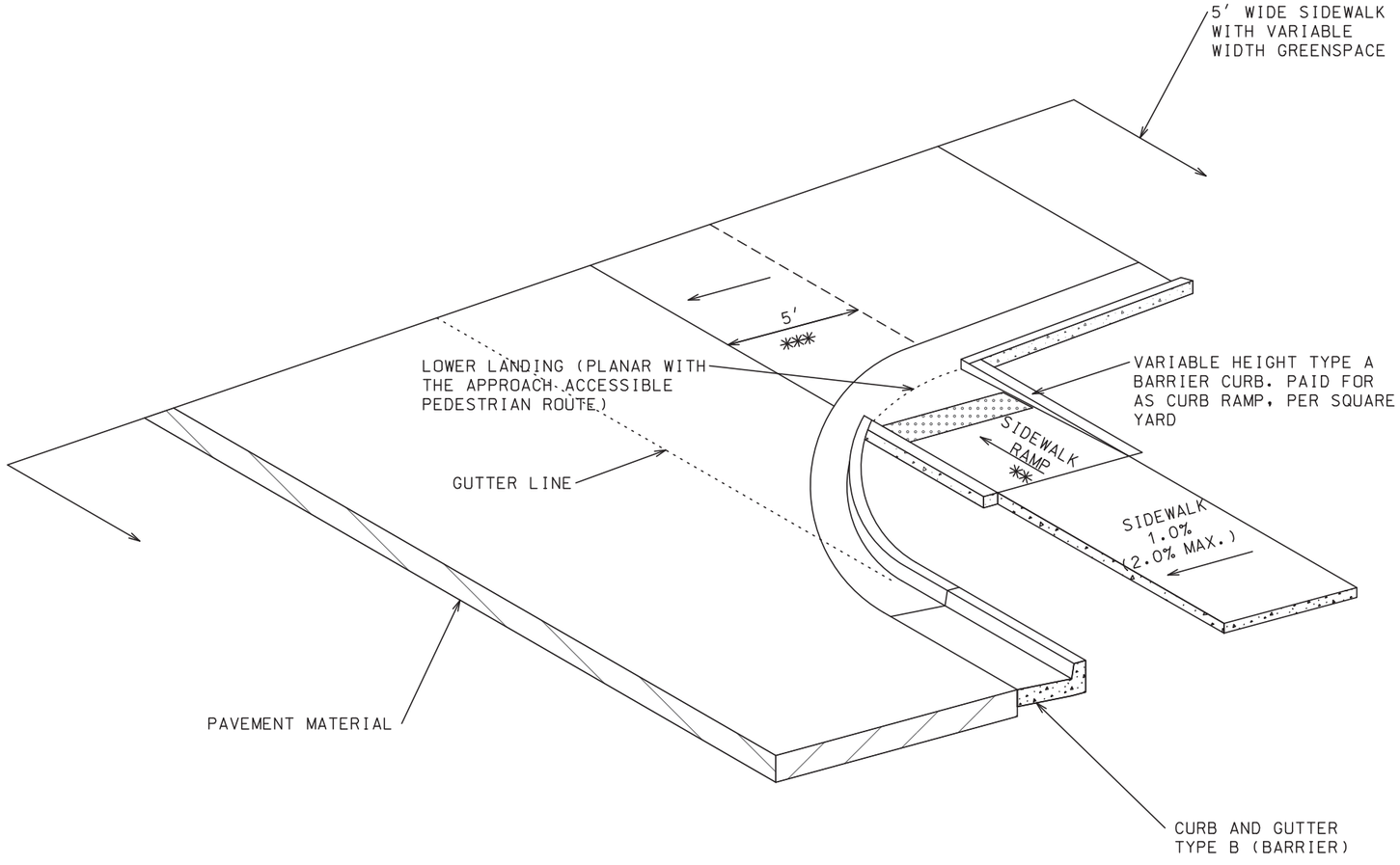


* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.)

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** NOTE THAT THE DIMENSION SHOWN ON THIS SHEET IS A MINIMUM WIDTH, AND SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLAN SHEETS.

(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

ISOMETRIC VIEW
NON-SIGNALIZED SIDE STREET APPROACHES

SPECIAL SHEET
SHEET 1 OF 5

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

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DATE PREPARED 9/12/2019

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 13 |

COUNTY: SCHUYLER
JOB NO.: J2P3222
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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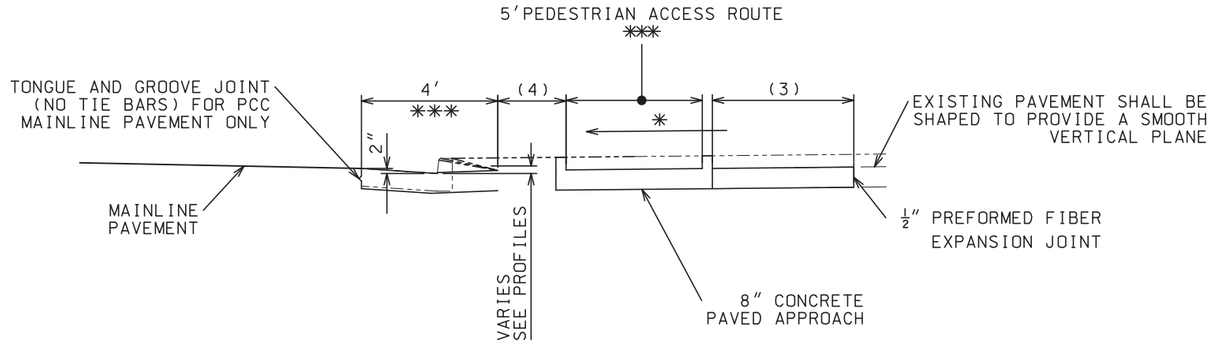
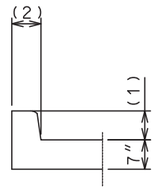
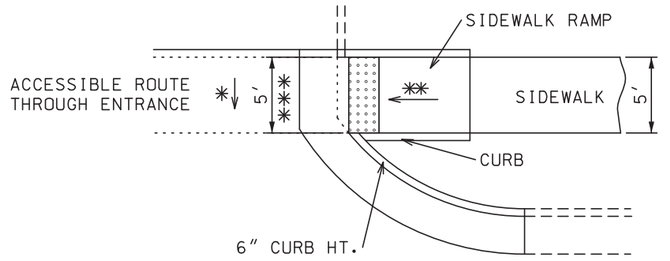



SECTION A–A

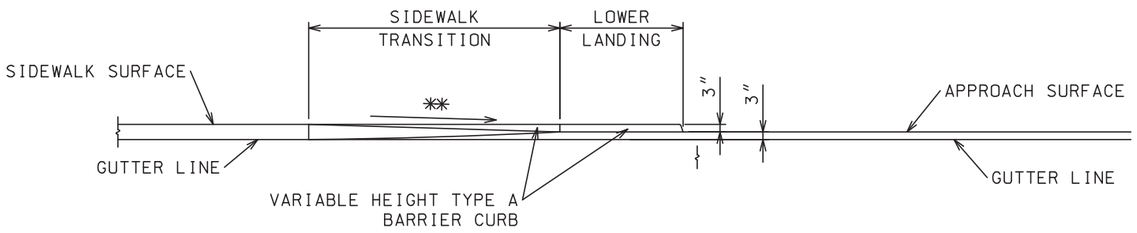



TYPE B (BARRIER)

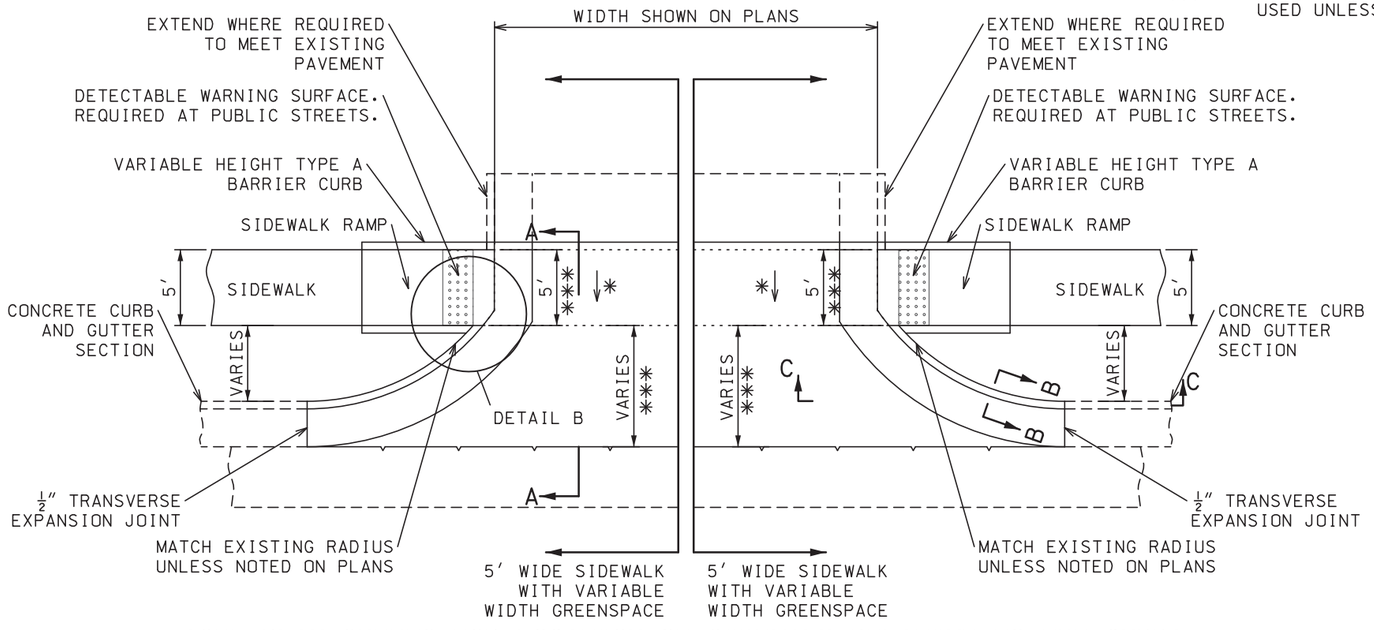
SECTION B–B




DETAIL B




SECTION C–C




(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

PLAN OF NON-SIGNALIZED SIDE STREET APPROACHES

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** NOTE THAT THE DIMENSION SHOWN ON THIS SHEET IS A MINIMUM WIDTH, AND SHALL BE USED UNLESS OTHERWISE NOTED ON THE PLAN SHEETS.

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.
(4) GREENSPACE WIDTH VARIES

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A BARRIER CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP

SPECIAL SHEET
SHEET 2 OF 5

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/12/2019
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 14
COUNTY SCHUYLER
JOB NO. J2P3222
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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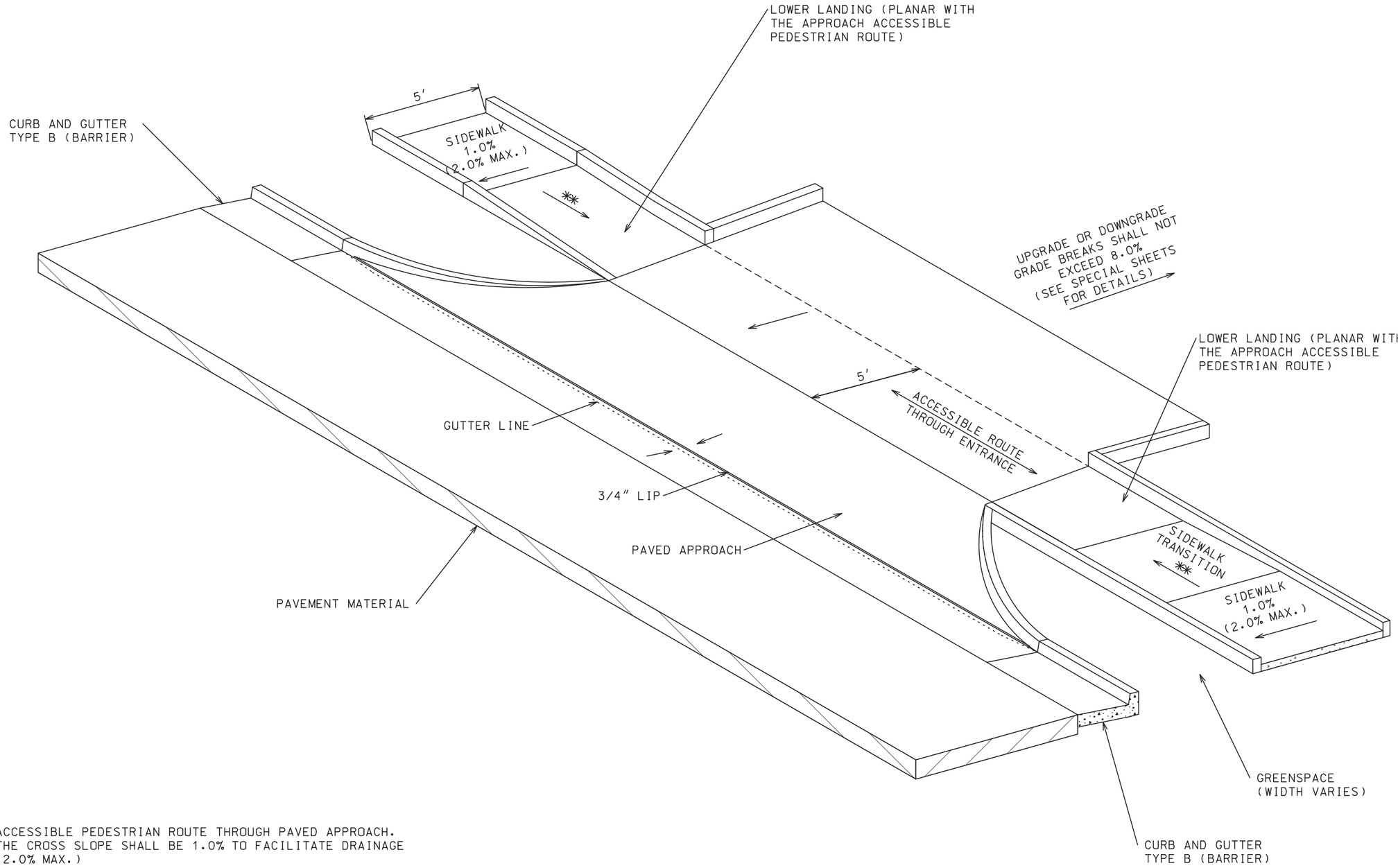


* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.)

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

ISOMETRIC VIEW
RESIDENTIAL APPROACHES
WITH 5′ SIDEWALKS

SPECIAL SHEET
SHEET 3 OF 5

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/12/2019

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 15 |

COUNTY: SCHUYLER
JOB NO.: J2P3222
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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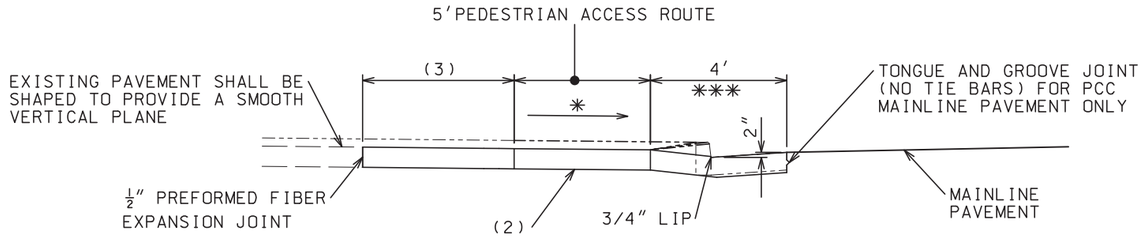
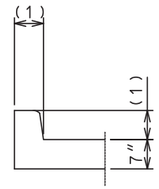
NOTE: THE CROSS SLOPE OF SIDEWALKS, LANDINGS, AND ACCESSIBLE ROUTE THROUGH THE PAVED APPROACHES SHALL BE 1.00% TO FACILITATE DRAINAGE (2.00% MAX.).

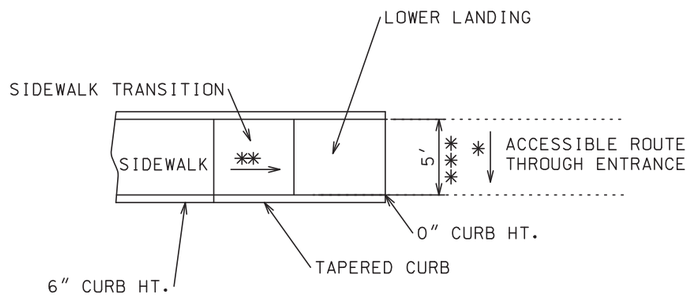



SECTION A–A

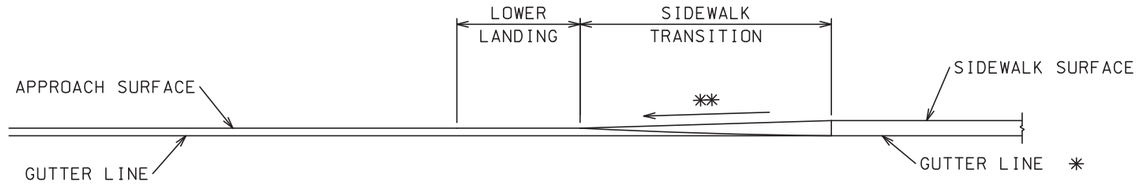



TYPE B (BARRIER)

SECTION B–B




DETAIL A

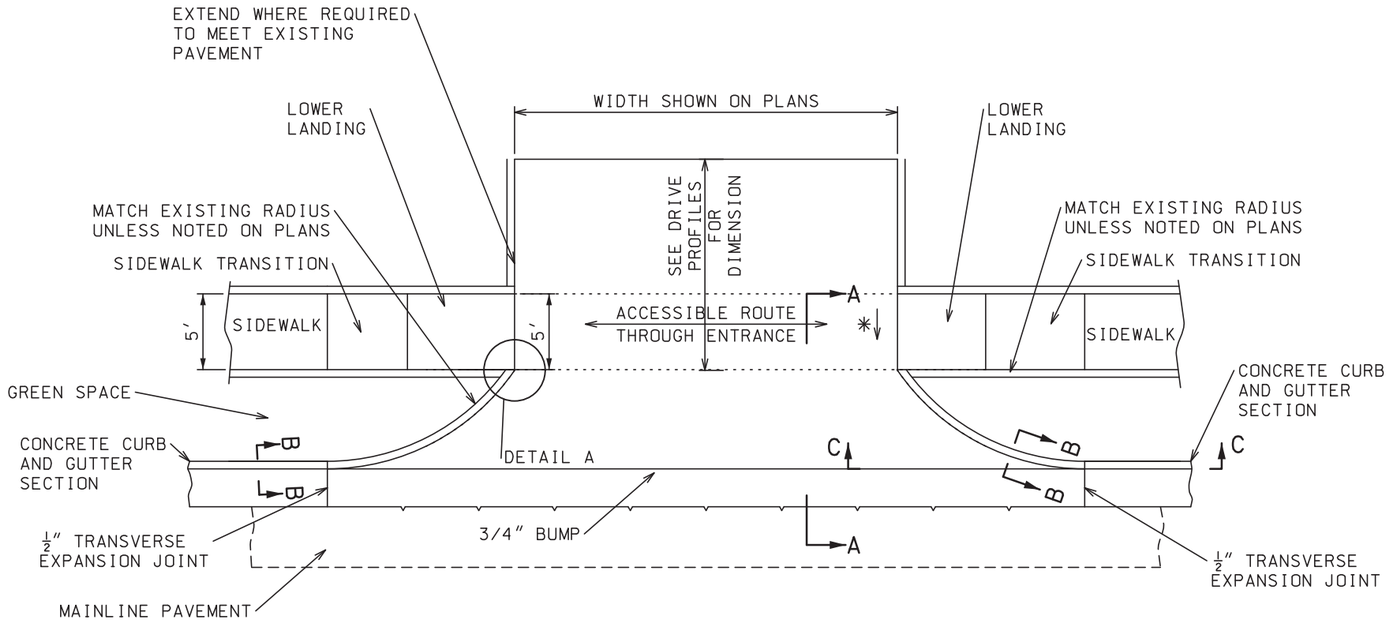



SECTION C–C

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5% MAXIMUM SLOPE

*** REFER TO DRIVEWAY SECTIONS FOR FINAL DIMENSIONS AT EACH DRIVEWAY.




RESIDENTIAL APPROACHES WITH 5′ SIDEWALKS

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) 8″ NRCCP – FOR ALLEY OR COMMERCIAL APPROACHES.
7″ NRCCP – FOR RESIDENTIAL APPROACHES.
(3) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

WHERE DRAINAGE IS NOT TO BE CARRIED ACROSS THE PAVED APPROACH, SECTION A–A SHALL BE MODIFIED TO ELIMINATE THE "LIP" AND SHALL BE CROWNED AS DIRECTED BY THE ENGINEER.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS. VARIABLE HEIGHT MODIFIED TYPE S CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP. SEE PLAN SHEETS FOR LOCATION

SPECIAL SHEET
SHEET 4 OF 5

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/12/2019

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 16 |

COUNTY SCHUYLER

JOB NO. J2P3222

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Bartlett & West
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PHONE 573-634-3181
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## DESIGN DESIGNATION

A.A.D.T. – 2018 = 1749
A.A.D.T. – 2038 = 2229
D.H.V. = 50% / 50%
V = 30 M.P.H.

FUNCTIONAL CLASSIFICATION – MINOR ARTERIAL

## TEMPORARY CONSTRUCTION EASEMENTS REQUIRED

PERMANENT R/W REQUIRED

## UTILITY COMPANIES

AMEREN MISSOURI ELECTRIC
PATRICK MCCARTY
PMCCARTY@AMEREN.COM
PHONE: (660) 785-2730

ATT DISTRIBUTION
TIM BREGENZER
TB6879@ATT.COM
PHONE: (618) 210-2425

CITY OF DOWNING
ALAN GARRETT
117 E PRIME ST
PHONE: (660) 379-2515

NORTHEAST MISSOURI RURAL TELEPHONE
DAVID RIDDLE
DRIDDLE@NEMR.NET
PHONE: (660) 874-4111

## CONVENTIONAL SYMBOLS

(USED IN PLANS)

| | EXISTING | NEW |
|---|---|---|
| BUILDINGS AND STRUCTURES | | |
| GUARD RAIL | | |
| GUARD CABLE | | |
| CONCRETE RIGHT-OF-WAY MARKER | | |
| STEEL RIGHT-OF-WAY MARKER | | |
| LOCATION SURVEY MARKER | | |
| UTILITIES | | |
| FIBER OPTICS | -FO- | -FO- |
| OVERHEAD CABLE TV | -OTV- | -OTV- |
| UNDERGROUND CABLE TV | -UTV- | -UTV- |
| OVERHEAD TELEPHONE | -OT- | -OT- |
| UNDERGROUND TELEPHONE | -UT- | -UT- |
| OVERHEAD POWER | -OE- | -OE- |
| UNDERGROUND POWER | -UE- | -UE- |
| SANITARY SEWER | -S- | -S- |
| STORM SEWER | -SS- | -SS- |
| GAS | -G- | -G- |
| WATER | -W- | -W- |
| MANHOLE | SAN | |
| FIRE HYDRANT | HYD | |
| WATER VALVE | WV | |
| WATER METER | WM | |
| DROP INLET | DI | |
| DITCH BLOCK | | |
| GROUND MOUNTED SIGN | SIGN | |
| LIGHT POLE | | |
| H-FRAME POWER POLE | | |
| TELEPHONE PEDESTAL | PED | |
| FENCE | | |
| CHAIN LINK | V | |
| WOVEN WIRE | X | |
| GATE POST | | |
| BENCHMARK | BM | |

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

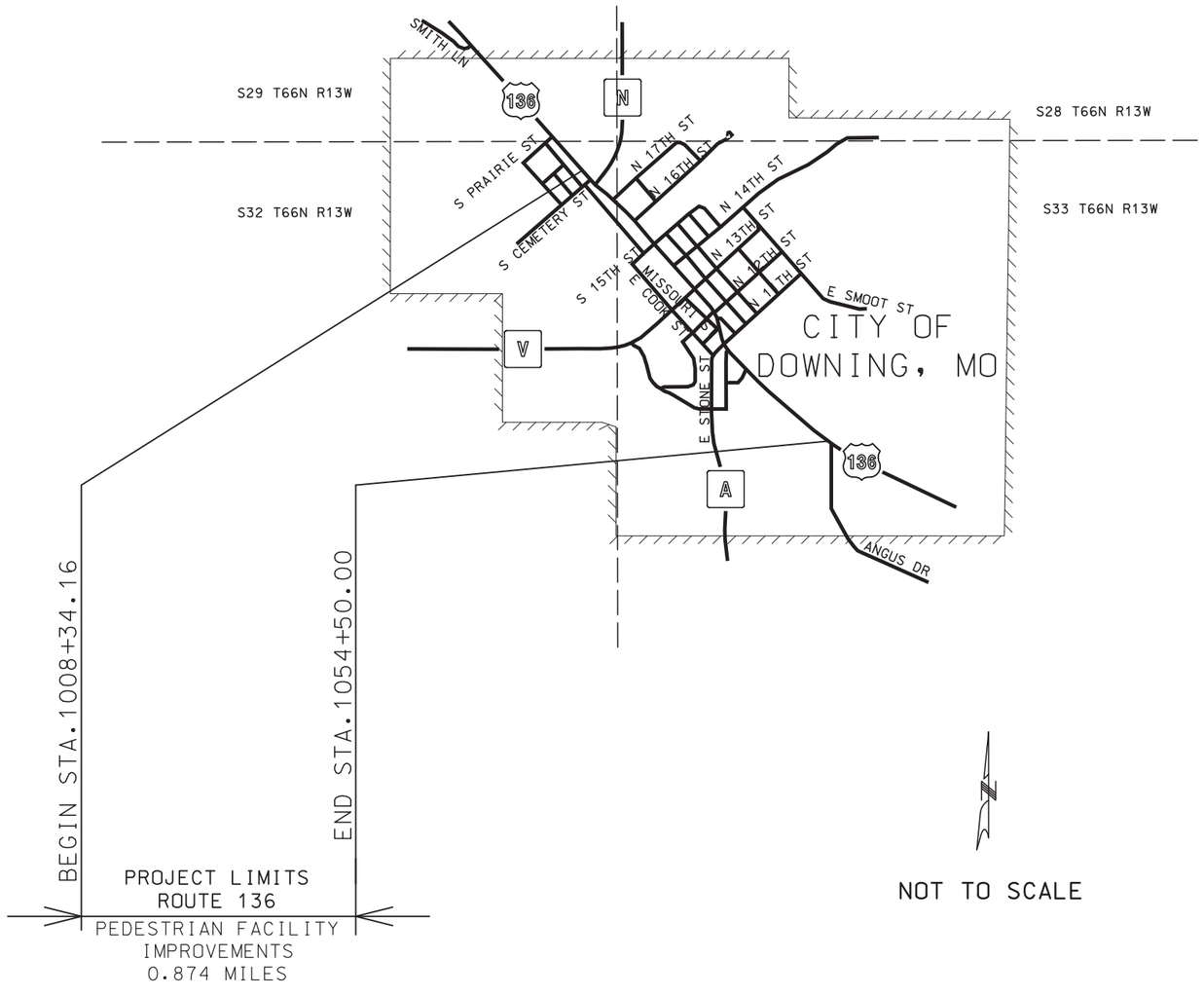
# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

# PLANS FOR PROPOSED STATE HIGHWAY

# SCHUYLER COUNTY

## AMERICANS WITH DISABILITIES ACT (ADA) IMPROVEMENTS

LOCATION MAP
SHOWING LOCATION OF SCHUYLER COUNTY




THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

## INDEX OF SHEETS


| DESCRIPTION | SHEET NUMBER |
|---|---|
| TITLE SHEET | 1 |
| TYPICAL SECTIONS (TS) (2 SHEETS) | 2 |
| QUANTITIES (QU) (6 SHEETS) | 3 |
| PLAN-PROFILE (PP) | 4-13 |
| REFERENCE POINTS (RP) | 14 |
| COORDINATE POINTS (CP) | 15 |
| SPECIAL SHEETS (SS) | 16-26 |
| TRAFFIC CONTROL SHEETS (TC) | 27-29 |
| EROSION CONTROL SHEETS (EC) | 30-31 |
| SIGNING (SN) | 32-33 |
| CULVERT SECTIONS (CS) | 34-35 |


## LENGTH OF PROJECT

| | | |
|---|---|---|
| BEGINNING OF PROJECT | STA. 1008+34.16 | |
| END OF PROJECT | STA. 1054+50.00 | |
| APPARENT LENGTH | 4,615.84 | FEET |
| EQUATIONS AND EXCEPTIONS: | NONE | |
| TOTAL CORRECTIONS | 0.00 | FEET |
| NET LENGTH OF PROJECT | 4,615.84 | FEET |
| STATE LENGTH | 0.874 | MILES |

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 1 |

COUNTY: SCHUYLER
JOB NO.: J2P3224
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

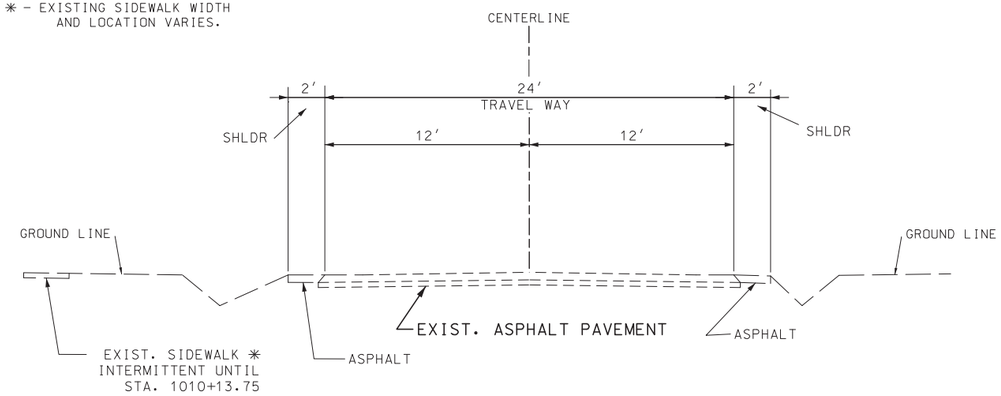
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

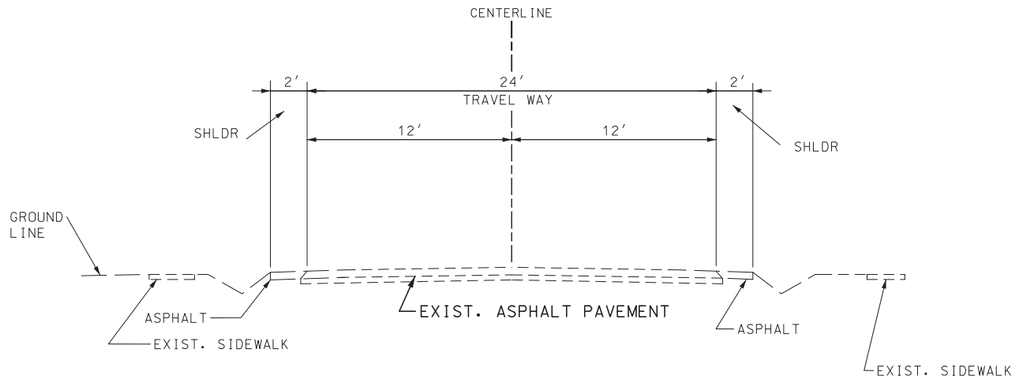
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.112/MicroStation/J2P3224/plan_sheets/001_TITLE_J2P3224_l1.dgn 4:05:22 PM 1/31/2020

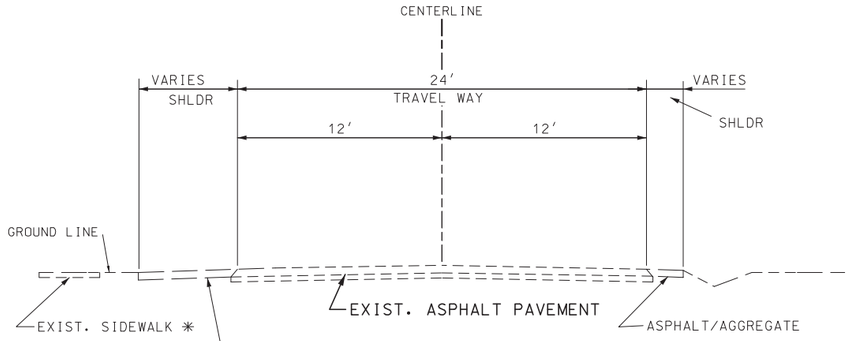
✳ - EXISTING SIDEWALK WIDTH AND LOCATION VARIES.



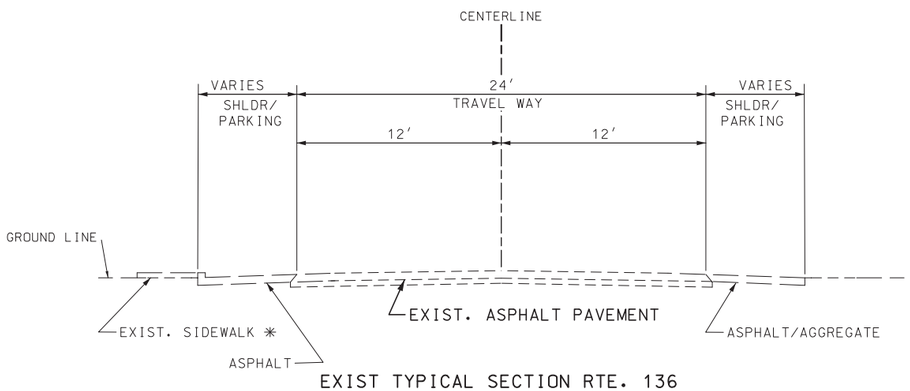

EXIST TYPICAL SECTION RTE. 136
STA. 1008+34.16 TO STA. 1013+75.00




EXIST TYPICAL SECTION RTE. 136
STA. 1035+57.00 TO STA. 1054+50.00




EXIST TYPICAL SECTION RTE. 136
STA. 1013+75.00 TO STA. 1021+38.00
STA. 1024+80 TO STA. 1026+10.00
STA. 1028+60.00 TO 1035+57.00




EXIST TYPICAL SECTION RTE. 136
STA. 1021+38.00 TO STA. 1024+80.00
STA. 1026+10.00 TO STA. 1028+60.00

TYPICAL SECTIONS
SHEET 1 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

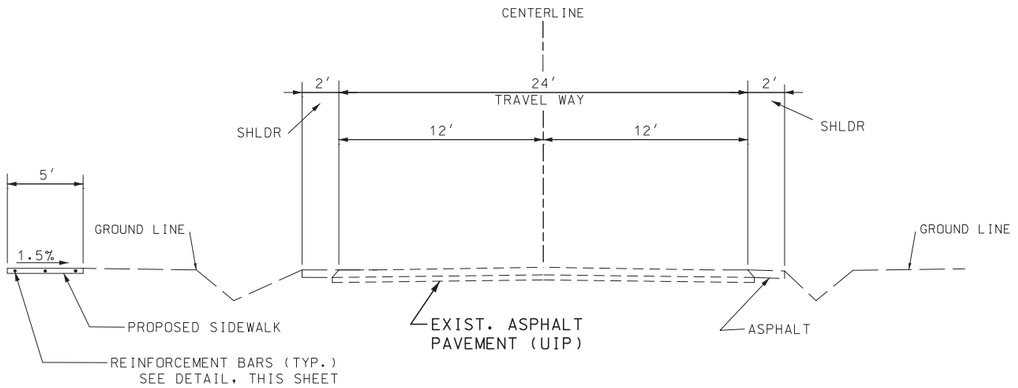
DATE PREPARED: 1/31/2020
ROUTE: 136 | STATE: MO
DISTRICT: NE | SHEET NO.: 2
COUNTY: SCHUYLER
JOB NO.: J2P3224
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

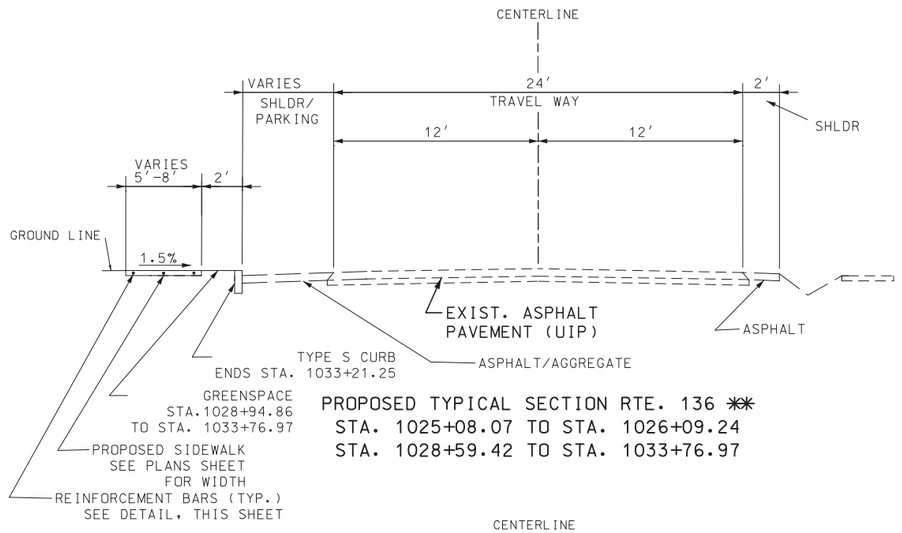
| DESCRIPTION | DATE |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

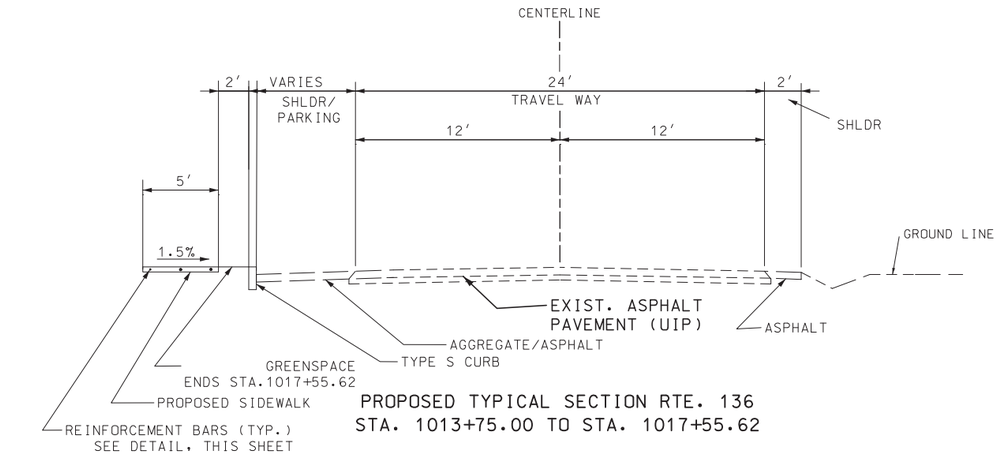

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



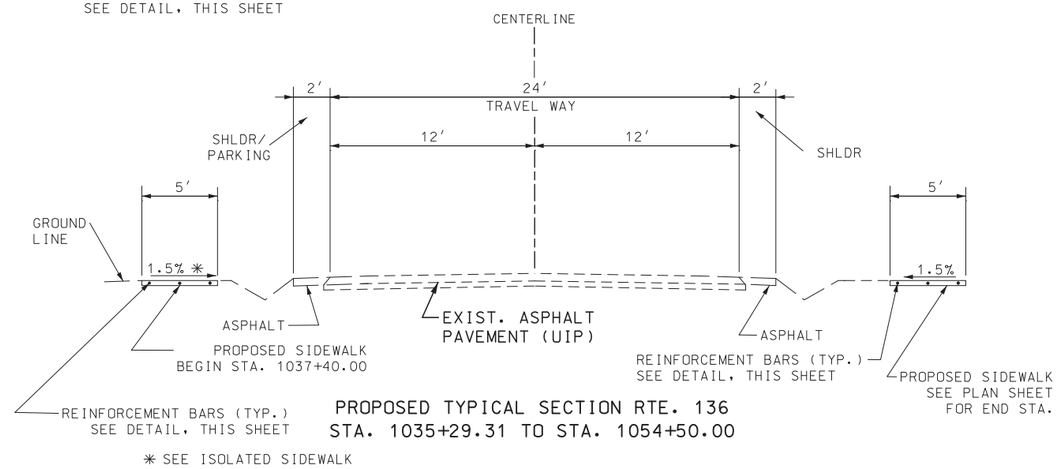

PROPOSED TYPICAL SECTION RTE. 136
STA. 1008+34.16 TO STA. 1013+75.00




PROPOSED TYPICAL SECTION RTE. 136 **
STA. 1025+08.07 TO STA. 1026+09.24
STA. 1028+59.42 TO STA. 1033+76.97

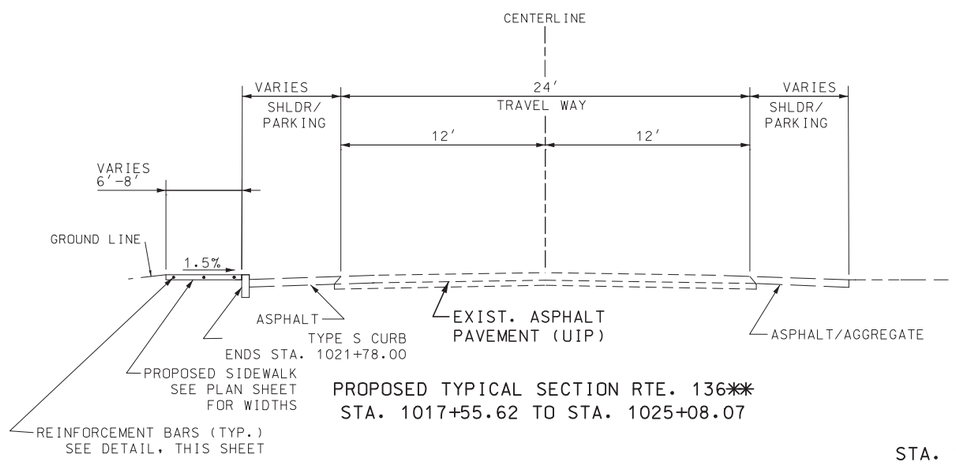



PROPOSED TYPICAL SECTION RTE. 136
STA. 1013+75.00 TO STA. 1017+55.62



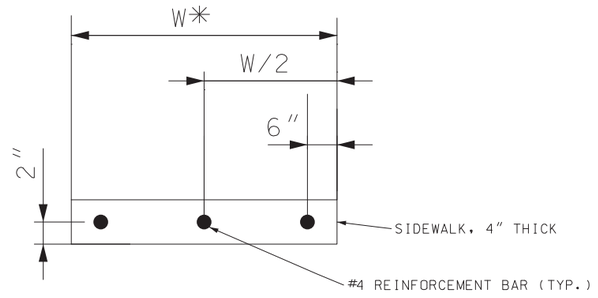

PROPOSED TYPICAL SECTION RTE. 136
STA. 1035+29.31 TO STA. 1054+50.00

* SEE ISOLATED SIDEWALK
SECTIONS FOR CROSS SLOPE




PROPOSED TYPICAL SECTION RTE. 136**
STA. 1017+55.62 TO STA. 1025+08.07

** SEE SHEET 18 FOR
STA. 1021+70.74 TO STA. 1023+74.62
STA. 1026+09.24 TO STA. 1028+59.42




SIDEWALK DETAIL

* NOTE: SEE PLAN VIEW FOR SIDEWALK WIDTH
SEE SHEET 16 FOR DOWNTOWN SIDEWALK SECTIONS

NOTES:

1.NO AGGREGATE BASE REQUIRED UNDER SIDEWALK. THREE 1/2" REBAR SHALL BE INSTALLED, AS SHOWN, FOR ADDITIONAL SUPPORT. NO DIRECT PAY FOR REINFORCEMENT

2.SEE STANDARD 608.10 FOR SIDEWALK DETAILS

TYPICAL SECTIONS
SHEET 2 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 2 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## REMOVAL OF IMPROVEMENTS

| ROUTE | STA. | STA. | LOCATION | DESCRIPTION | QUANTITY | UNITS | REMARKS |
|---|---|---|---|---|---|---|---|
| 136 | 1008+34.16 | 1010+68.50 | LT | SIDEWALK PAVEMENT | 22.0 | SY | |
| 136 | 1008+34.16 | 1010+68.50 | LT | GRAVEL DRIVEWAY | 15.6 | SY | |
| 136 | 1008+34.16 | 1010+68.50 | LT | ASPHALT/GRAVEL SHOULDER | 2.7 | SY | |
| 136 | 1008+34.16 | 1010+68.50 | LT | SIDESTREET PAVEMENT | 59.0 | SY | |
| 136 | 1008+34.16 | 1010+68.50 | LT | SAWCUT | 72.0 | LF | |
| 136 | 1008+34.16 | 1010+68.50 | RT | SIDEWALK PAVEMENT | 7.3 | SY | |
| 136 | 1008+34.16 | 1010+68.50 | RT | SAWCUT | 3.5 | LF | |
| 136 | 1010+68.50 | 1013+79.64 | LT | SIDEWALK PAVEMENT | 122.4 | SY | |
| 136 | 1010+68.50 | 1013+79.64 | LT | GRAVEL DRIVEWAY | 43.3 | SY | |
| 136 | 1010+68.50 | 1013+79.64 | LT | CONCRETE DRIVEWAY | 29.1 | SY | |
| 136 | 1010+68.50 | 1013+79.64 | LT | SIDESTREET PAVEMENT | 34.6 | SY | |
| 136 | 1010+68.50 | 1013+79.64 | LT | SAWCUT | 83.5 | LF | |
| 136 | 1013+79.64 | 1017+55.62 | LT | SIDEWALK PAVEMENT | 147.4 | SY | |
| 136 | 1013+79.64 | 1017+55.62 | LT | GRAVEL DRIVEWAY | 145.7 | SY | |
| 136 | 1013+79.64 | 1017+55.62 | LT | SIDESTREET PAVEMENT | 33.8 | SY | |
| 136 | 1013+79.64 | 1017+55.62 | LT | VEGETATION | 54.6 | SY | |
| 136 | 1013+79.64 | 1017+55.62 | LT | SAWCUT | 80.0 | LF | |
| 136 | 1017+34.81 | | LT | DROP INLET | 1.0 | EACH | |
| 136 | 1017+34.81 | | LT | 12" PIPE | 16.0 | LF | |
| 136 | 1017+55.62 | 1021+36.79 | LT | SIDEWALK PAVEMENT | 189.8 | SY | |
| 136 | 1017+55.62 | 1021+36.79 | LT | SIDESTREET PAVEMENT | 49.8 | SY | |
| 136 | 1017+55.62 | 1021+36.79 | LT | SAWCUT | 413.0 | LF | |
| 136 | 1017+88.51 | | LT | 18" PIPE | 19.0 | LF | INCLUDES CUTTING EXISTING PIPE |
| 136 | 1021+36.79 | 1025+06.60 | LT | SIDEWALK PAVEMENT | 156.6 | SY | |
| 136 | 1021+36.79 | 1025+06.60 | LT | SIDESTREET PAVEMENT | 52.4 | SY | |
| 136 | 1021+36.79 | 1025+06.60 | LT | SAWCUT | 134.0 | LF | |
| 136 | 1025+06.60 | 1028+95.01 | LT | SIDEWALK PAVEMENT | 155.4 | SY | |
| 136 | 1025+06.60 | 1028+95.01 | LT | CONCRETE DRIVEWAY | 24.1 | SY | |
| 136 | 1025+06.60 | 1028+95.01 | LT | SIDESTREET PAVEMENT | 42.6 | SY | |
| 136 | 1025+06.60 | 1028+95.01 | LT | SAWCUT | 305.0 | LF | |
| 136 | 1028+95.01 | 1032+84.03 | LT | SIDEWALK PAVEMENT | 202.7 | SY | |
| 136 | 1028+95.01 | 1032+84.03 | LT | ASPHALT/GRAVEL SHOULDER | 294.9 | SY | |
| 136 | 1028+95.01 | 1032+84.03 | LT | SIDESTREET PAVEMENT | 222.8 | SY | |
| 136 | 1028+95.01 | 1032+84.03 | LT | SAWCUT | 148.0 | LF | |
| 136 | 1032+84.03 | 1035+00.00 | RT | SIDESTREET PAVEMENT | 5.7 | SY | |
| 136 | 1032+84.03 | 1035+00.00 | RT | SAWCUT | 4.0 | LF | |
| 136 | 1035+00.00 | 1037+20.00 | RT | SIDEWALK PAVEMENT | 72.9 | SY | |
| 136 | 1037+20.00 | 1041+60.00 | LT | SIDEWALK PAVEMENT | 108.3 | SY | |
| 136 | 1037+20.00 | 1041+60.00 | LT | GRAVEL DRIVEWAY | 108.4 | SY | |
| 136 | 1037+20.00 | 1041+60.00 | LT | CONCRETE DRIVEWAY | 2.0 | SY | |
| 136 | 1037+20.00 | 1041+60.00 | LT | SAWCUT | 17.0 | LF | |
| 136 | 1037+20.00 | 1041+60.00 | RT | SIDEWALK PAVEMENT | 105.1 | SY | |
| 136 | 1037+20.00 | 1041+60.00 | RT | SIDESTREET PAVEMENT | 72.8 | SY | |
| 136 | 1037+20.00 | 1041+60.00 | RT | GRAVEL DRIVEWAY | 16.7 | SY | |
| 136 | 1037+20.00 | 1041+60.00 | RT | SAWCUT | 95.0 | LF | |
| 136 | 1040+62.17 | 1040+82.32 | LT | 12" PIPE UNDER ENTRANCE | 20.0 | LF | |
| 136 | 1040+96.88 | 1041+25.87 | LT | 12" PIPE UNDER ENTRANCE | 29.0 | LF | |
| 136 | 1041+60.00 | 1045+80.00 | LT | SIDEWALK PAVEMENT | 104.1 | SY | |
| 136 | 1041+60.00 | 1045+80.00 | LT | GRAVEL DRIVEWAY | 22.7 | SY | |
| 136 | 1041+60.00 | 1045+80.00 | RT | SIDEWALK PAVEMENT | 94.7 | SY | |
| 136 | 1041+60.00 | 1045+80.00 | RT | GRAVEL DRIVEWAY | 38.5 | SY | |
| 136 | 1041+60.00 | 1045+80.00 | RT | SIDESTREET PAVEMENT | 18.7 | SY | |
| 136 | 1041+60.00 | 1045+80.00 | RT | SAWCUT | 35 | LF | |
| 136 | 1043+52.72 | 1044+16.20 | LT | 12" PIPE UNDER ENTRANCE | 44 | LF | |
| 136 | 1045+80.00 | 1049+37.00 | LT | SIDEWALK PAVEMENT | 115.8 | SY | |
| 136 | 1045+80.00 | 1049+37.00 | LT | GRAVEL DRIVEWAY | 39.8 | SY | |
| 136 | 1045+80.00 | 1049+37.00 | LT | ASPHALT DRIVEWAY | 23.1 | SY | |
| 136 | 1045+80.00 | 1049+37.00 | LT | SAWCUT | 37 | LF | |
| 136 | 1045+80.00 | 1049+37.00 | RT | SIDEWALK PAVEMENT | 106.3 | SY | |
| 136 | 1045+80.00 | 1049+37.00 | RT | GRAVEL DRIVEWAY | 18.1 | SY | |
| 136 | 1049+37.00 | 1054+50.00 | LT | SIDEWALK PAVEMENT | 104.5 | SY | |
| 136 | 1049+37.00 | 1054+50.00 | LT | GRAVEL DRIVEWAY | 147.3 | SY | |
| 136 | 1049+37.00 | 1054+50.00 | LT | SAWCUT | 6.0 | LF | |
| 136 | 1049+37.00 | 1054+50.00 | RT | SIDEWALK PAVEMENT | 114.5 | SY | |
| 136 | 1049+37.00 | 1054+50.00 | RT | GRAVEL DRIVEWAY | 21.0 | SY | |
| 136 | 1049+37.00 | 1054+50.00 | RT | SAWCUT | 10.0 | LF | |
| 136 | 1051+41.90 | 1051+62.89 | RT | 12" PIPE UNDER ENTRANCE | 21.0 | LF | |
| | | | TOTAL | 1 LUMP SUM | | | |

## LINEAR GRADING CLASS 1

| ROUTE | STA. | STA. | LOCATION | STA | REMARKS |
|---|---|---|---|---|---|
| 136 | 1008+50.15 | 1009+00.55 | LT | 0.5 | DITCH GRADING LT. |
| 136 | 1009+25.54 | 1009+55.00 | LT | 0.3 | DITCH GRADING LT. |
| 136 | 1009+65.66 | 1010+02.39 | LT | 0.4 | DITCH GRADING LT. |
| 136 | 1008+51.00 | 1013+29.46 | LT | 4.7 | BEGIN OF PROJECT TO CORNER OF 17TH ST. |
| 136 | 1009+56.11 | | LT | 0.3 | SIDEWALK CONNECTION TO RTE.136 |
| 136 | 1009+56.11 | | RT | 0.2 | SIDEWALK CONNECTION TO RTE.136 |
| 136 | 1013+29.46 | 10+88.17 | LT | 0.6 | SIDEWALK ALONG 17TH ST. |
| 136 | 1013+48.32 | 1013+93.04 | LT | 0.4 | SIDEWALK & CROSSING ACROSS 17TH ST. |
| 136 | 1013+93.04 | 1019+80.06 | LT | 6.0 | 17TH ST. TO 16TH ST. |
| 136 | 1017+35.00 | | LT | 0.2 | OUTLET DITCH WEST SIDE OF 17TH ST. |
| 136 | 1020+10.42 | 1021+78.95 | LT | 1.7 | 16TH ST. TO COUNTRY CUTTER BUILDING |
| 136 | 1023+08.80 | 1024+03.42 | LT | 0.9 | |
| 136 | 1024+92.97 | 1026+09.24 | LT | 1.2 | WEST SIDE OF 14TH ST. TO ANTIQUES BUILDING |
| 136 | 1027+42.40 | 1028+59.53 | LT | 1.2 | |
| 136 | 1028+77.44 | 1029+12.32 | LT | 0.3 | CROSSING ACROSS 13TH ST. |
| 136 | 1029+12.32 | 1032+38.30 | LT | 4.1 | FROM 13TH STREET TO E/O 12TH ST. |
| 136 | 1032+56.00 | | LT | 0.2 | OUTLET DITCH WEST SIDE OF 12TH ST. |
| 136 | 1032+38.30 | 1032+77.01 | LT | 0.8 | CONNECTION TO EX. SIDEWALK ALONG PRIME ST. |
| 136 | 1033+08.00 | | | 0.2 | OUTLET DITCH EAST SIDE OF 12TH ST. |
| 136 | 1035+30.74 | 1037+07.76 | RT | 1.7 | SIDEWALK FROM ALLEY TO RTE. A |
| 136 | 1037+44.17 | 1038+52.30 | LT | 1.0 | 11TH ST. TO PC OF CURVE |
| 136 | 1037+71.61 | 1039+06.17 | RT | 1.6 | FROM RTE A EAST |
| 136 | 1038+52.30 | 1043+24.77 | LT | 4.7 | FROM CURVE PT TO CURVE PC |
| 136 | 1039+06.17 | 1043+24.77 | RT | 4.2 | TO CURVE PC |
| 136 | 1040+82.32 | 1040+96.88 | LT | 0.1 | GRADE DITCH BETWEEN PIPES |
| 136 | 1041+25.87 | 1041+38.55 | LT | 0.1 | GRADE DITCH BETWEEN PIPES |
| 136 | 1043+24.77 | 1046+54.63 | LT | 3.1 | LENGTH OF CURVE |
| 136 | 1043+24.77 | 1046+54.63 | RT | 3.3 | LENGTH OF CURVE |
| 136 | 1044+74.00 | | LT | 0.2 | OUTLET DITCH FOR 24" PIPE |
| 136 | 1046+54.63 | 1052+89.00 | RT | 6.3 | FROM CURVE PT TO END OF SIDEWALK RT. |
| 136 | 1046+54.63 | 1053+24.88 | LT | 6.7 | FROM CURVE PT TO CURVE PC |
| 136 | 1053+24.88 | 1054+37.08 | LT | 0.1 | FROM CURVE PT TO END OF SIDEWALK LT. |
| | | TOTAL | | 56.1 | |
| | | PAY TOTAL | | 56.1 | |

| MOBILIZATION |
|---|
| |
| TOTAL = 1 LUMP SUM |

| ADD MOBILIZATION FOR SEEDING |
|---|
| |
| TOTAL = 4 EACH |

| CONTRACTOR FURNISHED SURVEYING AND STAKING |
|---|
| TOTAL = 1 LUMP SUM |

## TREE REMOVAL

| ROUTE | STA. | LOCATION | EA | REMARKS |
|---|---|---|---|---|
| 136 | 1011+22.39 | LT | 1 | REMOVE TREE & STUMP |
| 136 | 1014+21.90 | LT | 1 | REMOVE TREE & STUMP |
| 136 | 1015+18.00 | LT | 1 | REMOVE TREE & STUMP |
| 136 | 1022+74.39 | LT | 1 | REMOVE TREE & STUMP |
| 136 | 1022+84.60 | LT | 1 | REMOVE TREE & STUMP |
| 136 | 1023+35.42 | LT | 1 | REMOVE TREE & STUMP |
| 136 | 1023+47.29 | LT | 1 | REMOVE TREE & STUMP |
| 136 | 1041+28.29 | LT | 1 | REMOVE TREE & STUMP |
| 136 | 1041+44.35 | LT | 1 | REMOVE TREE & STUMP |
| 136 | 1042+23.71 | RT | 1 | REMOVE TREE & STUMP |
| 136 | 1042+64.47 | RT | 1 | REMOVE TREE & STUMP |
| 136 | 1043+52.63 | RT | 1 | REMOVE TREE & STUMP |
| | | TOTAL | 12 | |

QUANTITY SHEETS
SHEET 1 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 3 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## REINFORCED PCC SIDEWALK

| ROUTE | STA. | STA. | LOCATION | CONCRETE SIDEWALK, 4 IN. THICK | CONCRETE SIDEWALK, 8 IN. THICK | REMARKS |
|---|---|---|---|---|---|---|
| | | | | SY | SY | |
| 136 | 1008+51.38 | 1010+47.05 | LT | 100.5 | | |
| 136 | 1009+59.11 | 1009+59.75 | LT | 14.1 | | |
| 136 | 1009+60.14 | 1009+60.99 | RT | 8.9 | | |
| 136 | 1010+94.81 | 1011+67.12 | LT | 40.9 | | |
| 136 | 1011+83.45 | 1012+24.16 | LT | 22.3 | | |
| 136 | 1012+42.46 | 1013+45.84 | LT | 72.4 | | |
| 136 | 1013+48.57 | 1013+49.23 | LT | 2.0 | | |
| 136 | 1014+02.29 | 1014+75.57 | LT | 43.4 | | |
| 136 | 1014+85.32 | 1014+98.43 | LT | 7.3 | | |
| 136 | 1015+11.22 | 1017+39.16 | LT | 137.5 | | |
| 136 | 1017+75.11 | 1019+75.05 | LT | 152.7 | | |
| 136 | 1020+15.42 | 1021+12.11 | LT | 64.5 | | |
| 136 | 1021+71.14 | 1021+78.90 | LT | 11.2 | | |
| 136 | 1023+08.75 | 1023+52.62 | LT | 55.4 | | |
| 136 | 1023+74.62 | 1024+53.60 | LT | 72.0 | | |
| 136 | 1024+58.61 | 1024+62.61 | LT | 2.2 | | |
| 136 | 1025+30.35 | 1026+09.24 | LT | 51.4 | | |
| 136 | 1027+42.31 | 1027+68.20 | LT | 18.9 | | |
| 136 | 1027+95.31 | 1028+59.44 | LT | 49.0 | | |
| 136 | 1029+29.14 | 1032+52.84 | LT | 185.0 | | |
| 136 | 1033+19.45 | 1033+66.86 | LT | 44.4 | | |
| 136 | 1035+34.45 | 1037+00.78 | RT | 103.9 | | |
| 136 | 1037+44.07 | 1039+66.87 | LT | 115.7 | | |
| 136 | 1037+55.72 | 1038+03.39 | RT | 27.8 | | |
| 136 | 1038+37.04 | 1040+19.16 | RT | 98.7 | | |
| 136 | 1039+78.43 | 1040+18.74 | LT | 20.9 | | |
| 136 | 1040+29.16 | 1041+43.15 | RT | 63.1 | | |
| 136 | 1040+32.62 | 1040+69.09 | LT | 20.3 | | |
| 136 | 1040+76.68 | 1041+03.17 | LT | 14.7 | | |
| 136 | 1041+19.87 | 1041+50.70 | LT | 17.1 | | |
| 136 | 1041+66.64 | 1043+95.78 | LT | 127.0 | | |
| 136 | 1041+85.93 | 1044+91.10 | RT | 166.3 | | |
| 136 | 1044+09.52 | 1046+35.55 | LT | 122.7 | | |
| 136 | 1045+02.99 | 1045+78.16 | RT | 42.0 | | |
| 136 | 1045+88.79 | 1048+64.21 | RT | 153.7 | | |
| 136 | 1046+59.60 | 1049+30.50 | LT | 150.5 | | |
| 136 | 1048+75.08 | 1051+45.29 | RT | 146.4 | | |
| 136 | 1049+42.97 | 1051+17.08 | LT | 96.7 | | |
| 136 | 1051+35.11 | 1053+25.78 | LT | 102.8 | | |
| 136 | 1051+57.89 | 1052+89.00 | RT | 71.6 | | |
| 136 | 1053+77.93 | 1054+37.08 | LT | | 32.6 | |
| | | TOTALS | | 2817.9 | 32.6 | |
| | | PAY TOTALS | | 2817.9 | 32.6 | |

## CURB RAMP

| ROUTE | STA. | LOCATION | CURB RAMP | REMARKS |
|---|---|---|---|---|
| | | | SY | |
| 136 | 1009+59.88 | LT | 2.8 | |
| 136 | 1009+60.03 | RT | 3.9 | |
| 136 | 1010+49.50 | LT | 3.0 | |
| 136 | 1010+92.20 | LT | 3.7 | |
| 136 | 1013+54.02 | LT | 16.4 | |
| 136 | 1013+95.37 | LT | 3.4 | |
| 136 | 1017+42.75 | LT | 4.7 | |
| 136 | 1017+71.82 | LT | 6.7 | |
| 136 | 1019+77.54 | LT | 3.3 | |
| 136 | 1020+12.92 | LT | 3.3 | |
| 136 | 1021+15.61 | LT | 6.2 | |
| 136 | 1021+55.13 | LT | 13.4 | |
| 136 | 1023+16.88 | LT | 4.2 | |
| 136 | 1023+92.94 | LT | 4.2 | |
| 136 | 1024+90.31 | LT | 2.9 | |
| 136 | 1025+26.75 | LT | 5.1 | |
| 136 | 1026+06.24 | LT | 5.6 | |
| 136 | 1027+59.13 | LT | 4.2 | |
| 136 | 1028+27.77 | LT | 4.2 | |
| 136 | 1028+55.44 | LT | 4.2 | |
| 136 | 1028+75.06 | LT | 1.7 | |
| 136 | 1029+15.11 | LT | 1.5 | |
| 136 | 1029+37.95 | LT | 5.3 | |
| 136 | 1029+45.43 | LT | 3.9 | |
| 136 | 1030+92.87 | LT | 2.8 | |
| 136 | 1031+51.28 | LT | 2.8 | |
| 136 | 1032+60.00 | LT | 8.9 | |
| 136 | 1033+08.10 | LT | 10.1 | |
| 136 | 1033+18.29 | LT | 5.6 | |
| 136 | 1033+29.57 | RT | 5.6 | |
| 136 | 1033+75.00 | LT | 2.8 | |
| 136 | 1035+30.86 | RT | 2.8 | |
| 136 | 1037+02.23 | RT | 3.1 | |
| 136 | 1037+52.23 | LT | 10.8 | |
| 136 | 1037+40.32 | RT | 3.3 | |
| 136 | 1037+52.29 | RT | 2.2 | |
| 136 | 1037+82.36 | RT | 2.8 | |
| 136 | 1038+29.00 | RT | 8.9 | |
| 136 | 1039+13.34 | RT | 2.8 | |
| 136 | 1039+30.13 | LT | 2.8 | |
| 136 | 1039+88.65 | RT | 2.8 | |
| 136 | 1040+02.27 | LT | 2.8 | |
| 136 | 1042+50.58 | RT | 2.8 | |
| 136 | 1046+18.10 | LT | 2.8 | |
| 136 | 1049+87.74 | RT | 2.8 | |
| 136 | 1050+79.06 | RT | 2.8 | |
| 136 | 1051+61.33 | LT | 2.8 | |
| 136 | 1052+37.07 | RT | 2.8 | |
| 136 | 1052+59.64 | LT | 2.8 | |
| | | TOTAL | 221.1 | |
| | | PAY TOTAL | 221.1 | |

## SEEDING - COOL SEASON MIXTURES

| ROUTE | STA. | STA. | LOCATION | SF | REMARKS |
|---|---|---|---|---|---|
| 136 | 1008+34.16 | 1010+68.50 | LT | 1525.0 | |
| 136 | 1008+34.16 | 1010+68.50 | RT | 381.0 | |
| 136 | 1010+68.50 | 1013+79.64 | LT | 1169.1 | |
| 136 | 1013+79.64 | 1017+55.62 | LT | 2298.6 | |
| 136 | 1015+15.54 | 1017+40.50 | LT | 2095.9 | BETWEEN SHOULDER AND CURB |
| 136 | 1017+55.62 | 1021+36.79 | LT | 3431.0 | |
| 136 | 1021+36.79 | 1025+06.60 | LT | 146.1 | |
| 136 | 1025+06.60 | 1028+95.01 | LT | 1505.2 | |
| 136 | 1028+95.01 | 1032+84.03 | LT | 5280.4 | |
| 136 | 1032+84.03 | 1035+00.00 | LT | 2491.8 | |
| 136 | 1035+00.00 | 1037+20.00 | RT | 1464.6 | |
| 136 | 1037+20.00 | 1041+60.00 | LT | 2186.4 | |
| 136 | 1037+20.00 | 1041+60.00 | RT | 2537.8 | |
| 136 | 1041+60.00 | 1045+80.00 | LT | 3406.0 | |
| 136 | 1041+60.00 | 1045+80.00 | RT | 2261.1 | |
| 136 | 1045+80.00 | 1049+37.00 | LT | 2085.9 | |
| 136 | 1045+80.00 | 1049+37.00 | RT | 1919.7 | |
| 136 | 1049+37.00 | 1054+50.00 | LT | 2406.5 | |
| 136 | 1049+37.00 | 1054+50.00 | RT | 1837.5 | |
| | | | TOTAL (SF) | 40429.4 | |
| | | | PAY TOTAL | LUMP SUM | |

## CURB AND GUTTER

| ROUTE | STATION | STATION | LOCATION | TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) | CURB AND GUTTER TYPE B | REMARKS |
|---|---|---|---|---|---|---|
| | | | | SY | LF | |
| 136 | 1017+26.00 | 1017+45.11 | LEFT | 3.6 | 20 | |
| 136 | 1017+68.55 | 1017+92.65 | LEFT | 3.6 | 24 | |
| 136 | 1025+41.78 | 1025+54.60 | LEFT | 3.6 | 13 | |
| | | | TOTALS | 10.8 | 57 | |
| | | | PAY TOTALS | 11 | 57 | |

QUANTITY SHEETS
SHEET 2 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/31/2020
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 3
COUNTY SCHUYLER
JOB NO. J2P3224
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## PAVED APPROACHES

| ROUTE | STA. | LOCATION | TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) | PCC PAVED APPROACH 7 IN. | PCC PAVED APPROACH 8 IN. | REMARKS |
|---|---|---|---|---|---|---|
| | | | SY | SY | SY | |
| 136 | 1009+00.12 | LT | 15.6 | 15.6 | | NO CURB |
| 136 | 1010+68.50 | LT | 59.0 | | 59.0 | NO CURB |
| 136 | 1011+74.99 | LT | 23.2 | 23.2 | | NO CURB |
| 136 | 1012+33.87 | LT | 20.1 | 20.1 | | NO CURB |
| 136 | 1013+79.64 | LT | 34.6 | | 34.6 | NO CURB |
| 136 | 1014+80.60 | LT | 15.2 | 15.2 | | |
| 136 | 1015+05.21 | LT | 20.8 | 20.8 | | |
| 136 | 1017+55.62 | LT | 33.8 | | 33.8 | NO CURB |
| 136 | 1021+36.79 | LT | 49.8 | | 49.8 | NO CURB |
| 136 | 1023+63.63 | LT | 32.2 | | 32.2 | NO CURB |
| 136 | 1025+06.60 | LT | 52.5 | | 52.5 | NO CURB |
| 136 | 1027+81.78 | LT | 24.1 | | 24.1 | NO CURB |
| 136 | 1028+95.01 | LT | 42.6 | | 42.6 | NO CURB |
| 136 | 1032+84.03 | LT | 75.6 | | 75.6 | |
| 136 | 1032+84.99 | LT | 143.7 | | 143.7 | NO CURB |
| 136 | 1038+12.60 | RT | 31.9 | | 31.9 | NO CURB |
| 136 | 1039+72.56 | LT | 19.3 | 19.3 | | NO CURB |
| 136 | 1040+24.17 | RT | 16.7 | 16.7 | | NO CURB |
| 136 | 1040+25.58 | LT | 23.1 | 23.1 | | NO CURB |
| 136 | 1040+72.79 | LT | 15.3 | 15.3 | | NO CURB |
| 136 | 1041+11.42 | LT | 27.8 | 27.8 | | NO CURB |
| 136 | 1041+54.14 | RT | 47.5 | | 47.5 | NO CURB |
| 136 | 1041+58.57 | LT | 26.6 | 26.6 | | NO CURB |
| 136 | 1041+76.80 | RT | 23.5 | | 23.5 | NO CURB |
| 136 | 1044+01.70 | LT | 22.7 | 22.7 | | NO CURB |
| 136 | 1044+97.01 | RT | 20.6 | 20.6 | | NO CURB |
| 136 | 1045+83.81 | RT | 17.7 | 17.7 | | NO CURB |
| 136 | 1046+47.64 | LT | 39.8 | 39.8 | | NO CURB |
| 136 | 1048+69.67 | RT | 18.1 | 18.1 | | NO CURB |
| 136 | 1049+36.72 | LT | 23.1 | 23.1 | | NO CURB |
| 136 | 1051+26.66 | LT | 30.1 | 30.1 | | NO CURB |
| 136 | 1051+51.61 | RT | 21.0 | 21.0 | | NO CURB |
| 136 | 1053+52.19 | LT | 116.0 | | 116.0 | NO CURB |
| 17TH | 10+78.11 | LT | 29.1 | 29.1 | | NO CURB |
| | | TOTALS | 1212.7 | 445.9 | 766.8 | |
| | PAY TOTALS | | 1213 | 445.9 | 766.8 | |

## CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S

| ROUTE | STA. | STA. | LOCATION | LF | REMARKS |
|---|---|---|---|---|---|
| 17TH ST. | 10+39.60 | 10+73.58 | LT | 34.0 | |
| 136 | 1013+92.87 | 1014+74.48 | LT | 79.5 | |
| 136 | 1014+90.08 | 1014+92.58 | LT | 2.6 | |
| 136 | 1015+16.05 | 1017+26.12 | LT | 213.5 | |
| 136 | 1017+68.17 | 1017+79.80 | LT | 11.4 | |
| 136 | 1017+92.65 | 1019+80.04 | LT | 187.4 | |
| 136 | 1020+10.43 | 1021+18.73 | LT | 108.3 | |
| 136 | 1021+51.58 | 1021+71.12 | LT | 20.5 | |
| 136 | 1023+74.62 | 1024+03.42 | LT | 32.1 | |
| 136 | 1025+23.20 | 1025+42.13 | LT | 19.0 | |
| 136 | 1025+54.64 | 1026+09.24 | LT | 54.6 | |
| 136 | 1029+12.32 | 1032+61.29 | LT | 341.3 | |
| | | TOTAL | | 1104.2 | |
| | | PAY TOTAL | | 1104 | |

## MODIFIED CONCRETE CURB (OVER 6 IN. HEIGHT) TYPE S

| ROUTE | | STA. | LOCATION | LF | REMARKS |
|---|---|---|---|---|---|
| 136 | 1023+07.80 | 1023+52.62 | LT | 43.8 | |
| | | TOTAL | | 43.82 | |
| | | PAY TOTAL | | 44 | |

## TRUNCATED DOMES

| ROUTE | STA. | LOCATION | SQ FT | REMARKS |
|---|---|---|---|---|
| 136 | 1009+59.88 | LT | 9.6 | |
| 136 | 1009+60.10 | RT | 9.6 | |
| 136 | 1010+51.00 | LT | 9.6 | |
| 136 | 1010+90.68 | LT | 9.6 | |
| 136 | 1013+63.63 | LT | 9.6 | |
| 136 | 1013+94.11 | LT | 9.6 | |
| 136 | 1017+47.13 | LT | 9.6 | |
| 136 | 1017+69.16 | LT | 11.6 | |
| 136 | 1021+18.11 | LT | 11.6 | |
| 136 | 1021+52.68 | LT | 11.6 | |
| 136 | 1024+91.87 | LT | 9.3 | |
| 136 | 1025+24.31 | LT | 11.6 | |
| 136 | 1028+75.48 | LT | 9.3 | |
| 136 | 1029+13.45 | LT | 8.6 | |
| 136 | 1032+67.22 | LT | 16.6 | |
| 136 | 1032+99.25 | LT | 15.1 | |
| 136 | 1033+18.09 | LT | 9.6 | |
| 136 | 1033+29.84 | RT | 9.6 | |
| 136 | 1035+30.12 | RT | 9.6 | |
| 136 | 1037+04.32 | RT | 9.6 | |
| 136 | 1037+39.51 | RT | 9.7 | |
| 136 | 1037+52.32 | LT | 9.6 | |
| 136 | 1037+52.38 | RT | 6.9 | |
| 136 | 1038+03.39 | RT | 11.7 | |
| 136 | 1038+22.81 | RT | 9.4 | |
| | TOTAL | | 239.0 | |
| | PAY TOTAL | | 239 | |

QUANTITY SHEETS
SHEET 3 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/3/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |

| DISTRICT | SHEET NO. |
|---|---|
| NE | 3 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## CULVERTS

| RTE | STA. | LOCATION | STA. | LOCATION | 12"GR. C PIPE | 12"GR. B PIPE | 15"GR. B PIPE | 18"GR. C PIPE | 24"GR. C PIPE | 12"GR. C FES | 15"GR. C FES | 18"GR. C FES | 24"GR. C FES | PIPE COLLAR TYPE A | PIPE COLLAR TYPE C | ROCK LINING | CLASS 3 EXC. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | LF | LF | LF | LF | LF | EACH | EACH | EACH | EACH | EACH | EACH | CY | CY | |
| 136 | 1009+00.55 | 25.59' LT. | 1009+23.54 | 25.12' LT | 24.0 | | | | | | | | | | | | 6.3 | |
| 136 | 1009+53.55 | 25.96' LT. | 1009+65.66 | 26.11' LT | 12.0 | | | | | | | | | | | | 3.6 | |
| 136 | 1017+34.81 | 36.70' LT. | 1017+35.31 | 38.99' LT | 14.0 | | | | | 1 | | | | | | | 3.6 | |
| 136 | 1017+88.49 | 37.01' LT | 1017+88.66 | 52.50' LT | | | | 13.0 | | | | 1 | | | | 2.0 | 4.7 | |
| 136 | 1024+90.81 | 29.04' LT. | 1024+90.81 | 119.81' LT | 90.0 | | | | | 1 | | | | | | | 31.8 | |
| 136 | 1025+45.86 | 25.88' LT. | 1025+46.61 | 28.74' LT | | 5.0 | | | | | | | | 1 | | | 5.6 | |
| 136 | 1025+46.83 | 32.75' LT. | 1025+48.36 | 69.91' LT. | 40.0 | | | | | 1 | | | | | | | 19.6 | |
| 136 | 1032+49.48 | 27.56' LT. | 1032+54.29 | 36.00' LT. | | | 9.0 | | | | 1 | | | | | | 1.7 | INCLUDES 1-55* ELBOW |
| 136 | 1033+09.59 | 32.46' LT. | 1033+07.44 | 32.38' LT. | | | | | 7.0 | | | | 1 | | 1 | 3.0 | 2.4 | |
| 136 | 1036+95.79 | 40.30' RT. | 1036+99.14 | 49.71' RT. | 10.0 | | | | | | | | | | | | 1.1 | |
| 136 | 1040+62.17 | 20.9 ' LT. | 1040+82.16 | 20.53' LT. | 20.0 | | | | | | | | | | | | 0.0 | CL.3 EXC INCL. IN REMOVALS |
| 136 | 1040+96.88 | 20.77' LT. | 1041+96.88 | 20.11' LT. | 29.0 | | | | | | | | | | | | 0.0 | CL.3 EXC INCL. IN REMOVALS |
| 136 | 1043+49.27 | 21.73' LT. | 1044+21.79 | 21.29' LT. | 40.0 | | | | | | | | | | | | 0.0 | CL.3 EXC INCL. IN REMOVALS |
| 136 | 1044+73.67 | 28.20' RT. | 1044+73.67 | 21.89' RT. | 5.0 | | | | | 1 | | | | | | | 0.9 | |
| 136 | 1044+73.83 | 24.60' LT. | 1044+74.59 | 38.99' LT. | | | | | 13.0 | | | | 1 | | | 3.0 | 3.6 | |
| 136 | 1051+41.90 | 20.74' RT. | 1051+62.89 | 21.28' RT. | 21.0 | | | | | | | | | | | | 0.0 | CL.3 EXC INCL. IN REMOVALS |
| 136 | 1051+63.64 | 23.00' RT. | 1051+63.64 | 32.00' RT. | 13.0 | | | | | | | | | | | | 0.0 | CL.3 EXC INCL. IN REMOVALS |
| 136 | 1052+06.72 | 23.00' RT. | 1052+06.72 | 32.00' RT. | 10.0 | | | | | | | | | | | | 0.0 | CL.3 EXC INCL. IN REMOVALS |
| | | | | | | | | | | | | | | | | | | |
| | | | | TOTALS | 328.0 | 5.0 | 9.0 | 13.0 | 20.0 | 4.0 | 1 | 1 | 2 | 1 | 1 | 8.0 | 84.9 | |
| | | | | PAY TOTALS | 328 | 5 | 9 | 13 | 20 | 4 | 1 | 1 | 2 | 1 | 1 | 8 | 85 | |

## ADJUSTING VALVES

| RTE | STA. | LOCATION | ADJUSTING VALVES | REMARKS |
|---|---|---|---|---|
| | | | EACH | |
| 136 | 1038+90.09 | 24.45' RT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1038+95.64 | 23.89' RT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1039+52.26 | 27.44' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1039+88.61 | 27.03' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1040+85.15 | 30.64' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1042+03.79 | 26.85' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1043+07.53 | 27.03' RT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1043+48.08 | 25.64' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1045+57.40 | 25.00' RT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1045+69.77 | 29.42' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1046+71.84 | 24.80' RT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1047+83.88 | 25.55' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1048+08.75 | 21.09' RT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1050+14.08 | 25.69' RT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1050+30.20 | 25.72' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1051+09.21 | 25.83' RT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1051+44.46 | 25.06' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1051+96.44 | 26.28' RT. | 1 | TOP FLUSH WITH SIDEWALK |
| 136 | 1052+78.47 | 25.00' LT. | 1 | TOP FLUSH WITH SIDEWALK |
| | | TOTAL | 19 | |

## DROP INLETS

| RTE | STA. | LOCATION | 3' X 2.5' TYPE T DI | 3' X 3' TYPE T DI | 3'X 3' TYPE S1 DI | 5' X 3' TYPE E DI | TYPE 3 MANHOLE FRAME & COVER | GRATE & FRAME | CLASS 3 EXCAVATION | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | FEET | FEET | FEET | FEET | EACH | EACH | CY | |
| 136 | 1017+34.81 | 35.20' LT. | 2.0 | | | | 1 | | 5.4 | |
| 136 | 1017+88.47 | 35.50' LT. | 3.5 | | | | 1 | | 8.3 | |
| 136 | 1024+90.81 | 27.54' LT. | | | 2.0 | | | 1 | 5.6 | |
| 136 | 1025+46.61 | 30.75' LT. | | 5.0 | | | 1 | | 13.1 | |
| 136 | 1032+49.51 | 26.06' LT. | | 3.0 | | | 1 | | 3.9 | |
| 136 | 1044+73.67 | 29.97' RT. | | | | 2.7 | | | 9.2 | INCLUDES PRECAST TOP |
| 136 | 1044+73.90 | 22.62' LT. | | | | 3.7 | | | 11.7 | INCLUDES PRECAST TOP |
| | | | | | | | | | | |
| | | TOTALS | 5.5 | 8.0 | 2.0 | 6.4 | 4.0 | 1.0 | 57.2 | |
| | | PAY TOTALS | 6 | 8 | 2 | 6 | 4 | 1 | 57 | |

## GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C)

| ROUTE | STA. | STA. | LOCATION | SY | REMARKS |
|---|---|---|---|---|---|
| 136 | 1009+02.99 | 1009+20.04 | LT | 4.7 | 4" THICK |
| 136 | 1013+92.76 | 1015+19.45 | LT | 84.0 | 4" THICK |
| | | | TOTAL | 89 | |
| | | | PAY TOTAL | 89 | |

QUANTITY SHEETS
SHEET 4 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/5/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 3 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## TEMPORARY EROSION CONTROL

| ROUTE | STA | STA | LOCATION | ALTERNATE DITCH CHECKS | CURB INLET CHECK | SEDIMENT TRAP | SILT FENCE | SEDIMENT REMOVAL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | LF | EACH | CY | LF | CY | |
| 136 | 1008+08.75 | | LT | 8 | | | | 1 | |
| 136 | 1009+13.89 | | RT | 8 | | | | 1 | |
| 136 | 1011+48.88 | | LT | 8 | | | | 1 | |
| 136 | 1011+98.50 | | LT | 8 | | | | 1 | |
| 136 | 1012+59.81 | | LT | 8 | | | | 1 | |
| 136 | 1012+76.24 | | LT | 8 | | | | 1 | |
| 136 | 1017+19.94 | 1017+50.00 | LT | | | | 30 | 0.3 | |
| 136 | 1017+34.81 | | LT | | 1 | | | 1 | |
| 136 | 1017+55.85 | 1017+98.58 | LT | | | | 35 | 0.4 | |
| 136 | 1017+88.97 | | LT | | 1 | | | 1 | |
| 136 | 1024+90.81 | | LT | | 1 | | | 1 | |
| 136 | 1025+53.71 | | LT | | 1 | | | 1 | |
| 136 | 1025+71.53 | | LT | | | 1.3 | | 1.3 | |
| 136 | 1033+20.97 | | RT | 8 | | | | 1 | |
| 136 | 1034+51.00 | | LT | | 1 | | | 1 | |
| 136 | 1034+51.14 | | RT | 8 | | | | 1 | |
| 136 | 1035+29.49 | | RT | 8 | | | | 1 | |
| 136 | 1035.98.83 | | RT | 8 | | | | 1 | |
| 136 | 1036+53.74 | | RT | 8 | | | | 1 | |
| 136 | 1038+53.78 | | RT | 8 | | | | 1 | |
| 136 | 1039+18.76 | | RT | 8 | | | | 1 | |
| 136 | 1039+83.81 | | RT | 8 | | | | 1 | |
| 136 | 1040+04.96 | | LT | 8 | | | | 1 | |
| 136 | 1040+58.77 | | RT | 8 | | | | 1 | |
| 136 | 1040+88.49 | | LT | 8 | | | | 1 | |
| 136 | 1041+13.91 | | RT | 8 | | | | 1 | |
| 136 | 1041+31.47 | | LT | 8 | | | | 1 | |
| 136 | 1041+79.79 | | LT | 8 | | | | 1 | |
| 136 | 1041+99.55 | | RT | 8 | | | | 1 | |
| 136 | 1042+43.95 | | RT | 8 | | | | 1 | |
| 136 | 1042+44.94 | | LT | 8 | | | | 1 | |
| 136 | 1043+08.99 | | RT | 8 | | | | 1 | |
| 136 | 1043+10.00 | | LT | 8 | | | | 1 | |
| 136 | 1043+73.87 | | RT | 8 | | | | 1 | |
| 136 | 1043+75.23 | | LT | 8 | | | | 1 | |
| 136 | 1044+38.58 | | RT | 8 | | | | 1 | |
| 136 | 1044+53.30 | | LT | 8 | | | | 1 | |
| 136 | 1044+89.01 | | LT | 8 | | | | 1 | |
| 136 | 1045+17.65 | | RT | 8 | | | | 1 | |
| 136 | 1045+20.49 | | LT | 8 | | | | 1 | |
| 136 | 1045+86.46 | | LT | 8 | | | | 1 | |
| 136 | 1045+97.77 | | RT | 8 | | | | 1 | |
| 136 | 1046+63.24 | | RT | 8 | | | | 1 | |
| 136 | 1046+65.98 | | LT | 8 | | | | 1 | |
| 136 | 1047+28.95 | | RT | 8 | | | | 1 | |
| 136 | 1047+31.36 | | LT | 8 | | | | 1 | |
| 136 | 1047+94.64 | | RT | 8 | | | | 1 | |
| 136 | 1047+96.93 | | LT | 8 | | | | 1 | |
| 136 | 1048+97.45 | | RT | 8 | | | | 1 | |
| 136 | 1049+62.98 | | RT | 8 | | | | 1 | |
| 136 | 1049+93.62 | | LT | 8 | | | | 1 | |
| 136 | 1050+28.52 | | RT | 8 | | | | 1 | |
| 136 | 1050+59.19 | | LT | 8 | | | | 1 | |
| 136 | 1050+94.05 | | RT | 8 | | | | 1 | |
| 136 | 1051+14.56 | | RT | 8 | | | | 1 | |
| 136 | 1051+53.12 | | LT | 8 | | | | 1 | |
| 136 | 1052+18.83 | | LT | 8 | | | | 1 | |
| 136 | 1052+25.47 | | RT | 8 | | | | 1 | |
| 136 | 1052+75.77 | | RT | 8 | | | | 1 | |
| 136 | 1052+84.61 | | LT | 8 | | | | 1 | |
| 136 | 1053+23.71 | | RT | 8 | | | | 1 | |
| 136 | 1054+38.91 | | LT | 8 | | | | 1 | |
| | | | TOTALS | 432 | 5 | 1.3 | 65 | 61.00 | |
| | | | PAY TOTALS | 432 | 5 | 1.3 | 65 | 61 | |

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER CHECK AND 1 CY PER 100 LF OF SILT FENCE

QUANTITY SHEETS
SHEET 5 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 1/31/2020
ROUTE: 136 | STATE: MO
DISTRICT: NE | SHEET NO.: 3
COUNTY: SCHUYLER
JOB NO.: J2P3224
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE: 10-01-2019

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL AREA SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| **WARNING SIGNS** | | | | | | | | |
| W01-1L | 48X48 | 16.00 | | | | | | TURN (SYMBOL LEFT ARROW) |
| W01-1R | 48X48 | 16.00 | | | | | | TURN (SYMBOL RIGHT ARROW) |
| W01-2L | 48X48 | 16.00 | | | | | | CURVE (SYMBOL LEFT ARROW) |
| W01-2R | 48X48 | 16.00 | | | | | | CURVE (SYMBOL RIGHT ARROW) |
| W01-3L | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL LEFT ARROW) |
| W01-3R | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL RIGHT ARROW) |
| W01-4L | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL LEFT ARROW) |
| W01-4R | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL RIGHT ARROW) |
| W01-4bL | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4bR | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-4cL | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4cR | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-6 | 60X30 | 12.50 | | | | | | HORIZONTAL ARROW (SYMBOL) |
| W01-6a | 72X36 | 18.00 | | | | | | HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE) |
| W01-7 | 60X30 | 12.50 | | | | | | DOUBLE HEAD HORIZONTAL ARROW (SYMBOL) |
| W01-7a | 72X36 | 18.00 | | | | | | DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.) |
| W01-8 | 18X24 | 3.00 | | | | | | CHEVRON (SYMBOL) |
| W01-8a | 30X36 | 7.50 | | | | | | CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) |
| W03-1 | 48X48 | 16.00 | | | | | | STOP AHEAD (SYMBOL) |
| W03-2 | 48X48 | 16.00 | | | | | | YIELD AHEAD (SYMBOL) |
| W03-3 | 48X48 | 16.00 | | | | | | SIGNAL AHEAD (SYMBOL) |
| W03-4 | 48X48 | 16.00 | | | | | | BE PREPARED TO STOP |
| W03-5 | 48X48 | 16.00 | | | | | | SPEED LIMIT AHEAD |
| W04-1L | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM LEFT) |
| W04-1R | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM RIGHT) |
| W04-1aL | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W04-1aR | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W05-1 | 48X48 | 16.00 | | | | | | ROAD/BRIDGE/RAMP NARROWS |
| W05-3 | 48X48 | 16.00 | | | | | | ONE LANE BRIDGE |
| W05-5 | 48X48 | 16.00 | | | | | | NARROW LANES |
| W06-1 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY (SYMBOL) |
| W06-2 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY END (SYMBOL) |
| W06-3 | 48X48 | 16.00 | | | | | | TWO WAY TRAFFIC (SYMBOL) |
| W07-3a | 30X24 | 5.00 | | | | | | NEXT XX MILES (PLAQUE) |
| W08-1 | 48X48 | 16.00 | | | | | | BUMP |
| W08-2 | 48X48 | 16.00 | | | | | | DIP |
| W08-3 | 48X48 | 16.00 | | | | | | PAVEMENT ENDS |
| W08-4 | 48X48 | 16.00 | | | | | | SOFT SHOULDER |
| W08-5 | 48X48 | 16.00 | | | | | | SLIPPERY WHEN WET (SYMBOL) |
| W08-6 | 48X48 | 16.00 | | | | | | TRUCK CROSSING |
| W08-6c | 48X48 | 16.00 | | | | | | TRUCK ENTRANCE |
| W08-7 | 36X36 | 9.00 | | | | | | LOOSE GRAVEL |
| W08-7a | 36X36 | 9.00 | | | | | | FRESH OIL/LOOSE GRAVEL |
| W08-9 | 48X48 | 16.00 | | | | | | LOW SHOULDER |
| W08-11 | 48X48 | 16.00 | | | | | | UNEVEN LANES |
| W08-12 | 48X48 | 16.00 | | | | | | NO CENTER LINE |
| W08-15 | 48X48 | 16.00 | | | | | | GROOVED PAVEMENT |
| W08-15P | 30X24 | 5.00 | | | | | | MOTORCYCLE (PLAQUE) |
| W08-17 | 48X48 | 16.00 | | | | | | SHOULDER DROP-OFF (SYMBOL) |
| W08-17P | 30X24 | 5.00 | | | | | | SHOULDER DROP-OFF (PLAQUE) |
| W10-1 | 42RND. | 9.62 | | | | | | RAILROAD CROSSING |
| W012-1 | 24X24 | 4.00 | | | | | | DOUBLE DOWN ARROW (SYMBOL) |
| W012-2 | 48X48 | 16.00 | | | | | | LOW CLEARANCE (SYMBOL) |
| W012-2X | 24X18 | 3.00 | | | | | | LOW CLEARANCE (PLAQUE) |
| W012-2a | 84X24 | 14.00 | | | | | | OVERHEAD LOW CLEARANCE (FEET AND INCHES) |
| W012-4 | 120X60 | 50.00 | | | | | | LOW CLEARANCE XX FT XX IN XX MILES AHEAD |
| W012-5 | 120X60 | 50.00 | | | | | | WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD |
| W013-1 | 30X30 | 6.25 | | | | | | ADVISORY SPEED (PLAQUE) |
| W016-2 | 30X24 | 5.00 | | | | | | XXX FEET (PLAQUE) |
| W016-3 | 30X24 | 5.00 | | | | | | X MILE (PLAQUE) |
| W020-1 | 48X48 | 16.00 | 11 | 176.00 | | | 2,2A | ROAD/BRIDGE/RAMP WORK AHEAD |
| W020-2 | 48X48 | 16.00 | | | | | | DETOUR AHEAD |
| W020-3 | 48X48 | 16.00 | 2 | 32.00 | | | 12 | ROAD CLOSED AHEAD |
| W020-4 | 48X48 | 16.00 | 2 | 32.00 | | | 3 | ONE LANE ROAD AHEAD |
| W020-5 | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED AHEAD |
| W020-5a | 48X48 | 16.00 | | | | | | 2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD |
| W020-6a | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED |
| W020-7a | 48X48 | 16.00 | 2 | 32.00 | | | 4 | FLAGGER (SYMBOL) WITH FLAGS |
| W021-2 | 36X36 | 9.00 | | | | | | FRESH OIL |
| W021-5 | 48X48 | 16.00 | | | | | | SHOULDER WORK AHEAD |
| W022-1 | 48X48 | 16.00 | | | | | | BLASTING ZONE AHEAD |
| W022-2 | 42X36 | 10.50 | | | | | | TURN OFF 2-WAY RADIO AND PHONE |
| W022-3 | 42X36 | 10.50 | | | | | | END BLASTING ZONE |
| G022-1 | 21X15 | 2.19 | | | | | | WET PAINT (ARROW PIVOTS) |

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| **GUIDE SIGNS** | | | | | | | | |
| E05-1 | 36X48 | 12.00 | | | | | | GORE EXIT |
| E05-2 | 48X36 | 12.00 | | | | | | EXIT OPEN |
| E05-2a | 48X36 | 12.00 | | | | | | EXIT CLOSED |
| G020-1 | 60X24 | 10.00 | | | | | | ROAD WORK NEXT XX MILES |
| G020-2 | 48X24 | 8.00 | | | | | | END ROAD WORK |
| G020-4 | 36X18 | 4.50 | | | | | | PILOT CAR FOLLOW ME |
| G020-4a | 42X30 | 8.75 | | | | | | PILOT CAR IN USE WAIT & FOLLOW |
| G020-4a | 18X12 | 1.50 | | | | | | PILOT CAR IN USE WAIT & FOLLOW |
| G020-5aP | 36X24 | 6.00 | | | | | | WORK ZONE (PLAQUE) |
| M04-8a | 24X18 | 3.00 | | | | | | END DETOUR |
| M04-9L | 48X36 | 12.00 | | | | | | DETOUR (LEFT ARROW) |
| M04-9R | 48X36 | 12.00 | | | | | | DETOUR (RIGHT ARROW) |
| M04-9P | 48X12 | 4.00 | | | | | | STREET NAME (PLAQUE) |
| M04-10L | 48X18 | 6.00 | | | | | | DETOUR (ARROW LEFT) |
| M04-10R | 48X18 | 6.00 | | | | | | DETOUR (ARROW RIGHT) |
| **REGULATORY SIGNS** | | | | | | | | |
| R1-1 | 48X48 | 13.25 | | | | | | STOP |
| R1-2 | 48TRI. | 6.93 | | | | | | YIELD |
| R1-2a | 36X36 | 9.00 | | | | | | TO ONCOMING TRAFFIC (PLAQUE) |
| R1-3P | 30X12 | 2.50 | | | | | | ALL WAY (PLAQUE) |
| R2-1 | 36X48 | 12.00 | | | | | | SPEED LIMIT XX |
| R3-1 | 48X48 | 16.00 | | | | | | NO RIGHT TURN (SYMBOL) |
| R3-2 | 48X48 | 16.00 | | | | | | NO LEFT TURN (SYMBOL) |
| R3-3 | 36X36 | 9.00 | | | | | | NO TURNS |
| R3-4 | 48X48 | 16.00 | | | | | | NO U-TURN (SYMBOL) |
| R3-7L | 30X30 | 6.25 | | | | | | LEFT LANE MUST TURN LEFT |
| R3-7R | 30X30 | 6.25 | | | | | | RIGHT LANE MUST TURN RIGHT |
| R4-1 | 36X48 | 12.00 | | | | | | DO NOT PASS |
| R4-2 | 36X48 | 12.00 | | | | | | PASS WITH CARE |
| R4-8a | 36X48 | 12.00 | | | | | | KEEP LEFT (HORIZONTAL ARROW) |
| R4-7a | 36X48 | 12.00 | | | | | | KEEP RIGHT (HORIZONTAL ARROW) |
| R5-1 | 30X30 | 6.25 | | | | | | DO NOT ENTER |
| R5-1a | 36X24 | 6.00 | | | | | | WRONG WAY |
| R6-1L | 54X18 | 6.75 | | | | | | ONE WAY ARROW (LEFT) |
| R6-1R | 54X18 | 6.75 | | | | | | ONE WAY ARROW (RIGHT) |
| R6-2L | 24X30 | 5.00 | | | | | | ONE WAY (LEFT) |
| R6-2R | 24X30 | 5.00 | | | | | | ONE WAY (RIGHT) |
| R9-9 | 24X12 | 2.00 | 6 | 12.00 | | | 30 | SIDEWALK CLOSED |
| R9-11L | 24X18 | 3.00 | | | | | | SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE |
| R9-11R | 24X18 | 3.00 | | | | | | SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE |
| R10-6 | 24X36 | 6.00 | | | | | | STOP HERE ON RED (45° ARROW) |
| R11-2 | 48X30 | 10.00 | 2 | 20.00 | | | 11 | ROAD CLOSED |
| R11-3a | 60X30 | 12.50 | | | | | | ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY |
| R11-4 | 60X30 | 12.50 | 2 | 25.00 | | | 10 | ROAD CLOSED TO THRU TRAFFIC |
| CONST-3A | 60X48 | 20.00 | | | | | | FINE SIGN |
| CONST-3X | 56X12 | 4.67 | | | | | | SPEEDING/PASSING (PLATE) |
| **MISCELLANEOUS SIGNS** | | | | | | | | |
| CONST-5 | 48X36 | 12.00 | | | | | | POINT OF PRESENCE |
| CONST-5 | 96X48 | 32.00 | | | | | | POINT OF PRESENCE |
| CONST-7 | 48X24 | 8.00 | | | | | | RATE OUR WORK ZONE |
| CONST-7 | 72X36 | 18.00 | | | | | | RATE OUR WORK ZONE |
| CONST-8 | 48X36 | 12.00 | | | | | | WORK ZONE NO PHONE ZONE |

| 616-10.05 CONSTRUCTION SIGNS | TOTAL |
|---|---|
| | 329 |

| 616-10.10 RELOCATED SIGNS | TOTAL |
|---|---|
| | 0 |

| ITEM NUMBER | TOTAL QTY | DESCRIPTION |
|---|---|---|
| 6122008 | | IMPACT ATTENUATOR 40 MPH (SAND BARRELS) |
| 6122009 | | IMPACT ATTENUATOR 45 MPH (SAND BARRELS) |
| 6122010 | | IMPACT ATTENUATOR 50 MPH (SAND BARRELS) |
| 6122012 | | IMPACT ATTENUATOR 55 MPH (SAND BARRELS) |
| 6122014 | | IMPACT ATTENUATOR 60 MPH (SAND BARRELS) |
| 6122017 | | IMPACT ATTENUATOR 65 MPH (SAND BARRELS) |
| 6122019 | | IMPACT ATTENUATOR 70 MPH (SAND BARRELS) |
| 6122020 | | REPLACEMENT SAND BARREL |
| 6122030 | | IMPACT ATTENUATOR (RELOCATION) |
| 6123000A | | TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA) |
| 6161007 | | SPEED LIMIT AND STROBE LIGHT ASSEMBLY |
| 6161008 | 5 | ADVANCED WARNING RAIL SYSTEM |
| 6161009 | 13 | FLAG ASSEMBLY |
| 6161012 | | BUOYS (BOATS KEEP OUT) |
| 6161013 | | BUOYS (NO WAKE) |
| 6161014 | | SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT) |
| 6161024 | | CHANNELIZER (TRIM LINE) WITH LIGHT |
| 6161025 | 37 | CHANNELIZER (TRIM LINE) |
| 6161030 | 8 | TYPE III MOVEABLE BARRICADE |
| 6161031 | 2 | TYPE III MOVEABLE BARRICADE WITH LIGHTS |
| 6161033 | | DIRECTION INDICATOR BARRICADE |
| 6161034 | | DIRECTION INDICATOR BARRICADE, WITH LIGHT |
| 6161040 | | FLASHING ARROW PANEL |
| 6161047 | | TYPE III OBJECT MARKER |
| 6161052 | | WARNING LIGHT, TYPE B |
| 6161055 | | SEQUENTIAL FLASHING WARNING LIGHT |
| 6161070 | | TUBULAR MARKER |
| 6161095 | | RADAR SPEED ADVISORY SYSTEM |
| 6161096 | | CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED |
| 6161098A | 2 | CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6161099 | | CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6162000A | | WORK ZONE TRAFFIC SIGNAL SYSTEM |
| 6162002 | | TEMPORARY LONG-TERM RUMBLE STRIPS |
| 6162004 | | TEMPORARY SHORT-TERM RUMBLE STRIPS |
| 6173600D | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED |
| 6173602B | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED |
| 6174000A | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION |
| 6175010A | | RELOCATING TEMPORARY TRAFFIC BARRIER |
| 6176000B | | TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED |
| 6177000B | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED |
| 6208064A | | TEMPORARY RAISED PAVEMENT MARKER |
| 9029400 | | TEMPORARY TRAFFIC SIGNALS |
| 9029401 | | TEMPORARY TRAFFIC SIGNALS AND LIGHTING |
| 6169902 | 6 | DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE |
| | | |
| | | |

QUANTITY SHEETS
SHEET 6 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 3 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

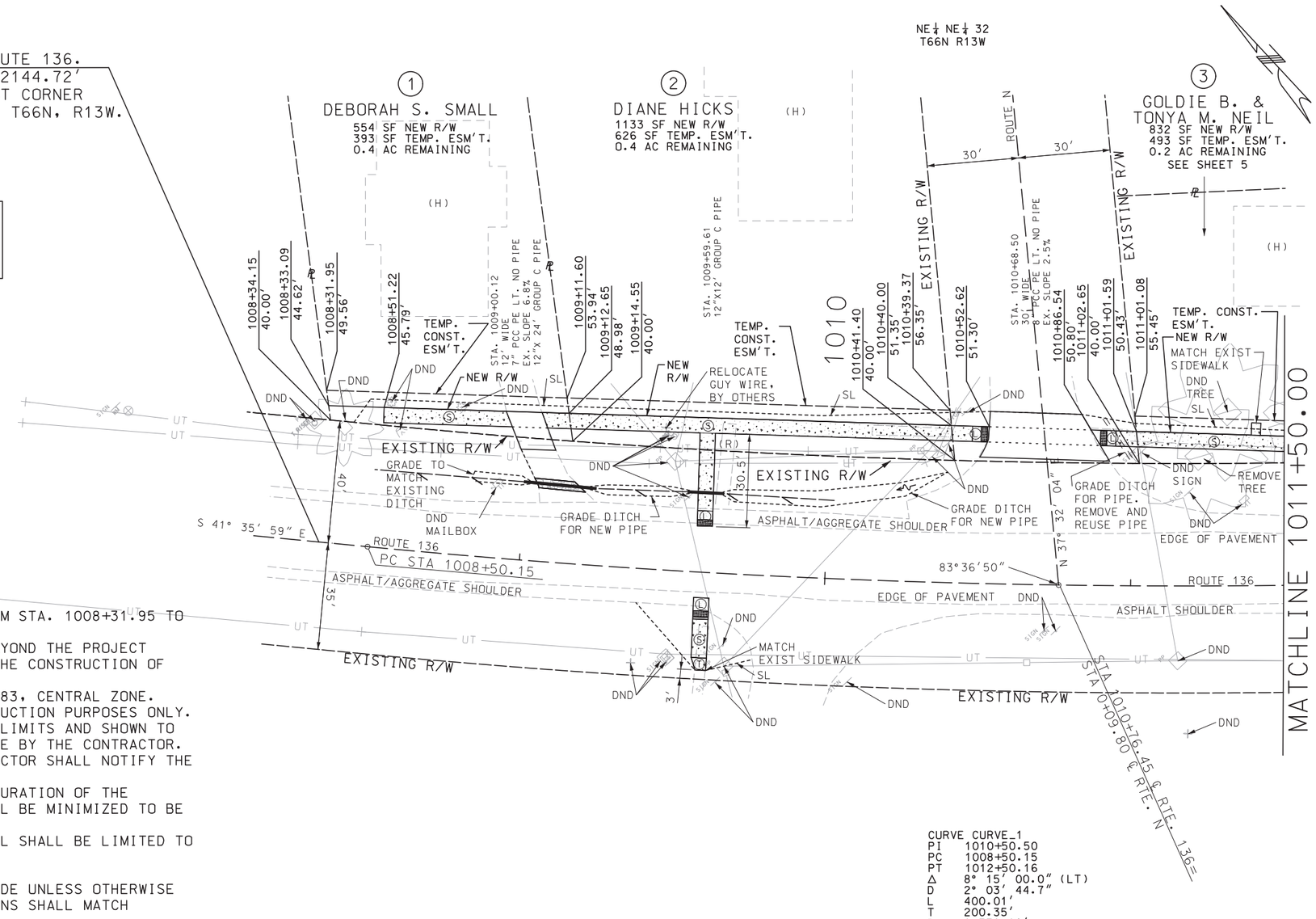
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

PROJECT BEGINS AT STA. 1008+34.16 ℄ ROUTE 136.
FEDERAL IMPROVEMENT BEGINS AT A POINT 2144.72′ EAST AND 407.11′ SOUTH OF THE SOUTHWEST CORNER OF THE SOUTHEAST CORNER OF SECTION 29, T66N, R13W.

CERTIFIED LAND CORNER

STA. 1008+34.16 CENTERLINE OF ROUTE 136 IS LOCATED 2183.02′ ON A BEARING OF S 79°15′8″ E OF THE SOUTH ¼ CORNER OF SECTION 29-66-13 RECORDED IN CORNER DOCUMENT NO. 600-47213.




CURVE CURVE_1
PI 1010+50.50
PC 1008+50.15
PT 1012+50.16
Δ 8° 15′ 00.0″ (LT)
D 2° 03′ 44.7″
L 400.01′
T 200.35′
R 2,778.08′

GENERAL NOTES

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 1008+31.95 TO STA. 1054+42.14, A DISTANCE OF 0.873 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE STATE PLANE BEARING, NAD83, CENTRAL ZONE.
4. THE CENTERLINE SHOWN ON THE PLANS IS FOR CONSTRUCTION PURPOSES ONLY.
5. ALL CURB RAMPS AND SIDEWALK WITHIN THE PROJECT LIMITS AND SHOWN TO USE IN PLACE SHALL BE FIELD VERIFIED FOR COMPLIANCE BY THE CONTRACTOR. IF AREAS ARE FOUND TO BE NON-COMPLIANT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
6. ALL SEEDING SHALL BE PERFORMED THROUGHOUT THE DURATION OF THE PROJECT, AND NOT AT ONE TIME. DISTURBED AREAS SHALL BE MINIMIZED TO BE LESS THAN 1 ACRE AT ALL TIMES.
7. UNLESS DIRECTED BY THE ENGINEER, EROSION CONTROL SHALL BE LIMITED TO DEVICES INCLUDED IN THE CONTRACT.
8. SEE SPECIAL SHEETS FOR ENTRANCE PROFILES.
9. ALL NEW SIDEWALK SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS. RESIDENTIAL SIDEWALK CONNECTIONS SHALL MATCH EXISTING WIDTH.
10. THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSIONS AT THIS TIME, THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATIONS OR WARRANTY AS TO THE COMPLETENESS ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE.
11. LOCATION OF BACK SIDE OF PROPOSED SIDEWALK SHALL BE PLACED AS NOTED ON THE PLANS.

| | |
|---|---|
| | (S) SIDEWALK SECTION |
| RAMP/LANDING | (R) RAMP |
| SIDEWALK | (T) TRANSITION |
| TRUNCATED DOMES | (L) LANDING |

SCALE
0 20 40 60

PLAN SHEET
SHEET 1 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

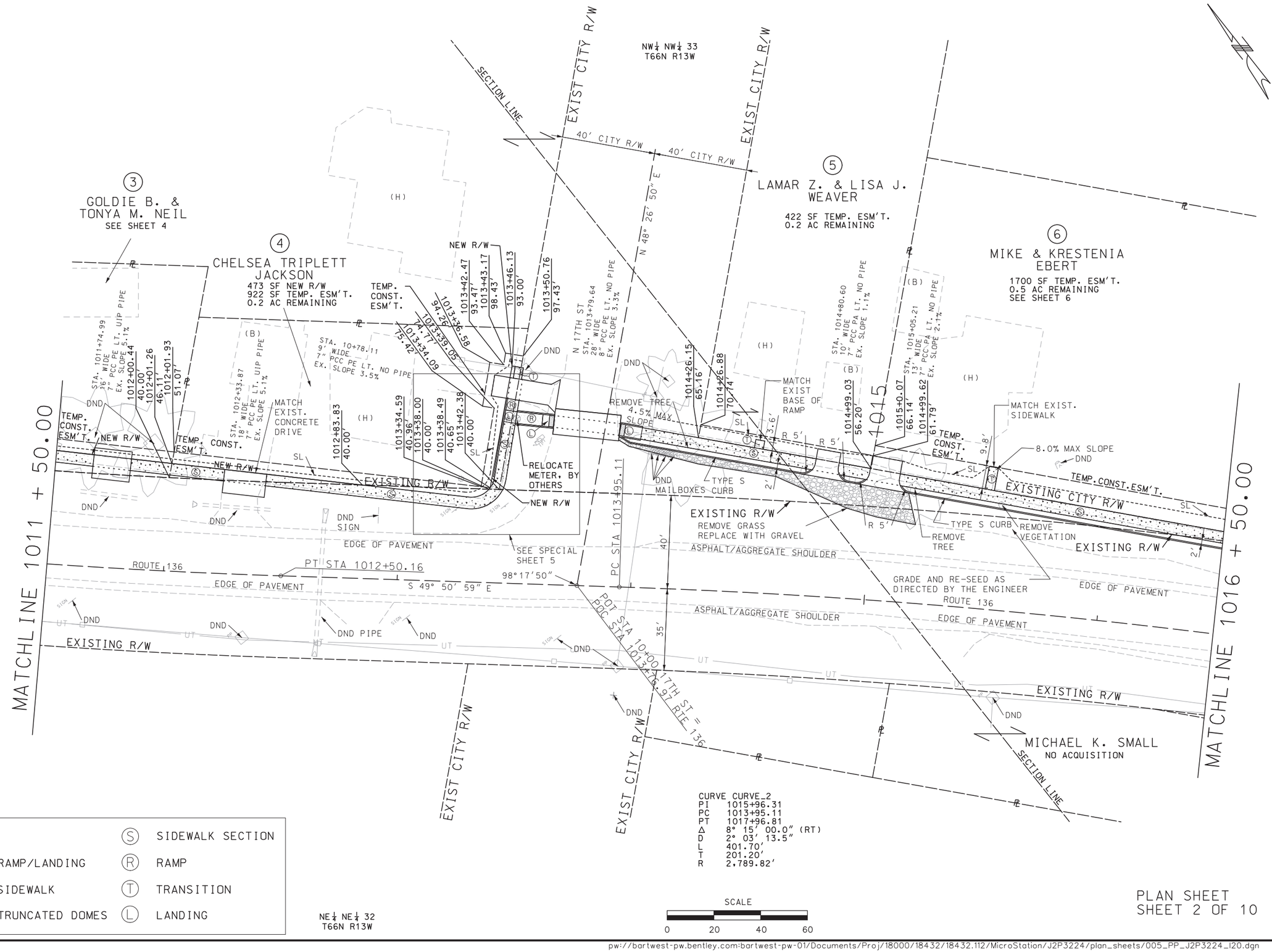
DATE PREPARED 1/31/2020
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 4
COUNTY SCHUYLER
JOB NO. J2P3224
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 1/31/2020 |
| ROUTE | 136 |
| STATE | MO |
| DISTRICT | NE |
| SHEET NO. | 5 |
| COUNTY | SCHUYLER |
| JOB NO. | J2P3224 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DATE | DESCRIPTION |
|---|---|

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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WWW.BARTLETTWEST.COM

STOP
R1-1

(1) RELOCATE SIGN
STA. 1017+38.00
EXIST STOP SIGN
16TH ST.
LOCATE AS DIRECTED BY ENGINEER

NW¼ NW¼ 33
T66N R13W

(6) MIKE & KRESTENIA EBERT
SEE SHEET 5

(7) DANIEL EBERT
630 SF TEMP. ESM'T.
0.2 AC REMAINING

(8) DOWNING METHODIST CHURCH IN DOWNING
2310 SF TEMP. ESM'T.
0.5 AC REMAINING

(9) IRLEY GALE RUTH
475 SF TEMP. ESM'T.
0.1 AC REMAINING

(10) I.G. AND MAXINE RUTH
171 SF TEMP. ESM'T.
0.05 AC REMAINING

(11) JOE & BARBARA FARLEY
330 SF TEMP. ESM'T.
0.1 AC REMAINING

(12) CITY OF DOWNING
420 SF TEMP. ESM'T.
0.1 AC REMAINING

(13) ROBERT & ELIZABETH KELSO
375 SF TEMP. ESM'T.
0.1 AC REMAINING

MICHAEL K. SMALL
NO ACQUISITION

DOWNING FIRE STATION
NO ACQUISITION

I.G. & MAXINE D. RUTH
NO ACQUISITION

MATCHLINE 1016 + 50.00

MATCHLINE 1021+ 50.00

EXISTING CITY R/W

10' TEMP. CONST. ESM'T.

80' CITY R/W

EXIST CITY R/W

EXISTING R/W

TEMP. CONST. ESM'T.

ROUTE 136

EDGE OF PAVEMENT

PT STA 1017+96.81

S 41°35' 59" E

1016+65.58 43.13'
1016+66.05 53.12'
1016+86.79 52.21'–57.21'
1017+00.51 56.69'–51.69'
1017+19.73 41.08'
1017+20.01 51.22'
1017+19.70 40.0'

STA. 1017+34.81 35.20' LT
INSTALL 3'X 2.5' TYPE T DI
12"X 14' GROUP C PIPE

STA. 1017+88.47 35.50' LT
INSTALL 3'X 2.5' TYPE T DI
18"X 13' GROUP C PIPE

PIPE # 1
PIPE# 2

16TH ST
STA. 1017+55.62
17' WIDE
8" PCC PE LT. NO PIPE
EX. SLOPE 6.8%

15TH ST
STA. 1021+36.79
30' WIDE
8" PCC PE LT. NO PIPE
EX. SLOPE 2.4%

1017+98.62 55.00'
1017+98.60 40.00'

1019+52.60 40.00'
1019+52.62 55.00'

1019+80.19 55.00'–42.00'

1020+11.10 42.00'–40.00'

1020+12.56 55.00'
1020+12.24 42.00'
1020+23.62 55.00'
1020+23.60 40.00'
1020+45.62 55.00'
1020+45.60 40.00'
1020+73.62 55.00'
1020+73.60 40.00'
1020+98.62 55.00'
1020+98.60 40.00'

1017+95.48 TO 40.0'

DND
DND SIGN
DND BUILDINGS (B) UNITED METHODIST CHURCH
DND BUILDINGS (B) COUNTRY CLIPPER
DND MAILBOXES
DND EXIST DI

MATCH EXIST SIDEWALK
GRADE TO DRAIN
GRADE AND RE-SEED AS DIRECTED BY THE ENGINEER
DI#1
DI#2
13 LF TYPE B CURB AND GUTTER
EDGE OF PAVEMENT
TYPE S CURB
UIP
SL
UT
(H)
(R)
(B)
℄
40'
35'
6'
9.5'
10'
2'

¼¼ QUARTER SECTION LINE

SW¼ NW¼ 33
T66N R13W

| | | |
|---|---|---|
| RAMP/LANDING | (S) | SIDEWALK SECTION |
| SIDEWALK | (R) | RAMP |
| TRUNCATED DOMES | (T) | TRANSITION |
| | (L) | LANDING |

SCALE
0 20 40 60

PLAN SHEET
SHEET 3 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 6 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

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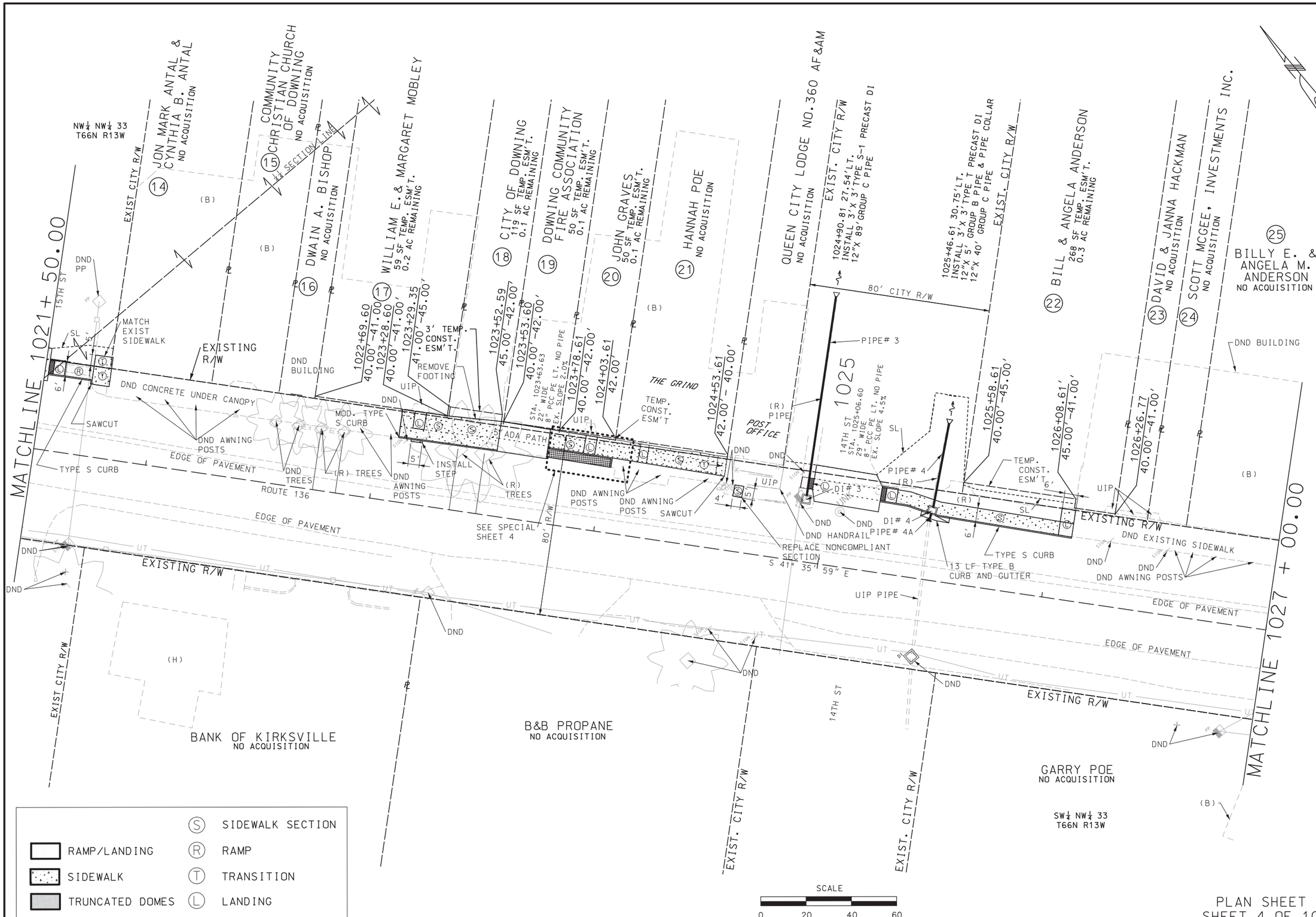
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.112/MicroStation/J2P3224/plan_sheets/006_PP_J2P3224_120.dgn 4:05:41 PM 1/31/2020




| | | | |
|---|---|---|---|
| RAMP/LANDING | | (S) | SIDEWALK SECTION |
| SIDEWALK | | (R) | RAMP |
| TRUNCATED DOMES | | (T) | TRANSITION |
| | | (L) | LANDING |

PLAN SHEET
SHEET 4 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 1/31/2020 |
| ROUTE | 136 |
| STATE | MO |
| DISTRICT | NE |
| SHEET NO. | 7 |
| COUNTY | SCHUYLER |
| JOB NO. | J2P3224 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
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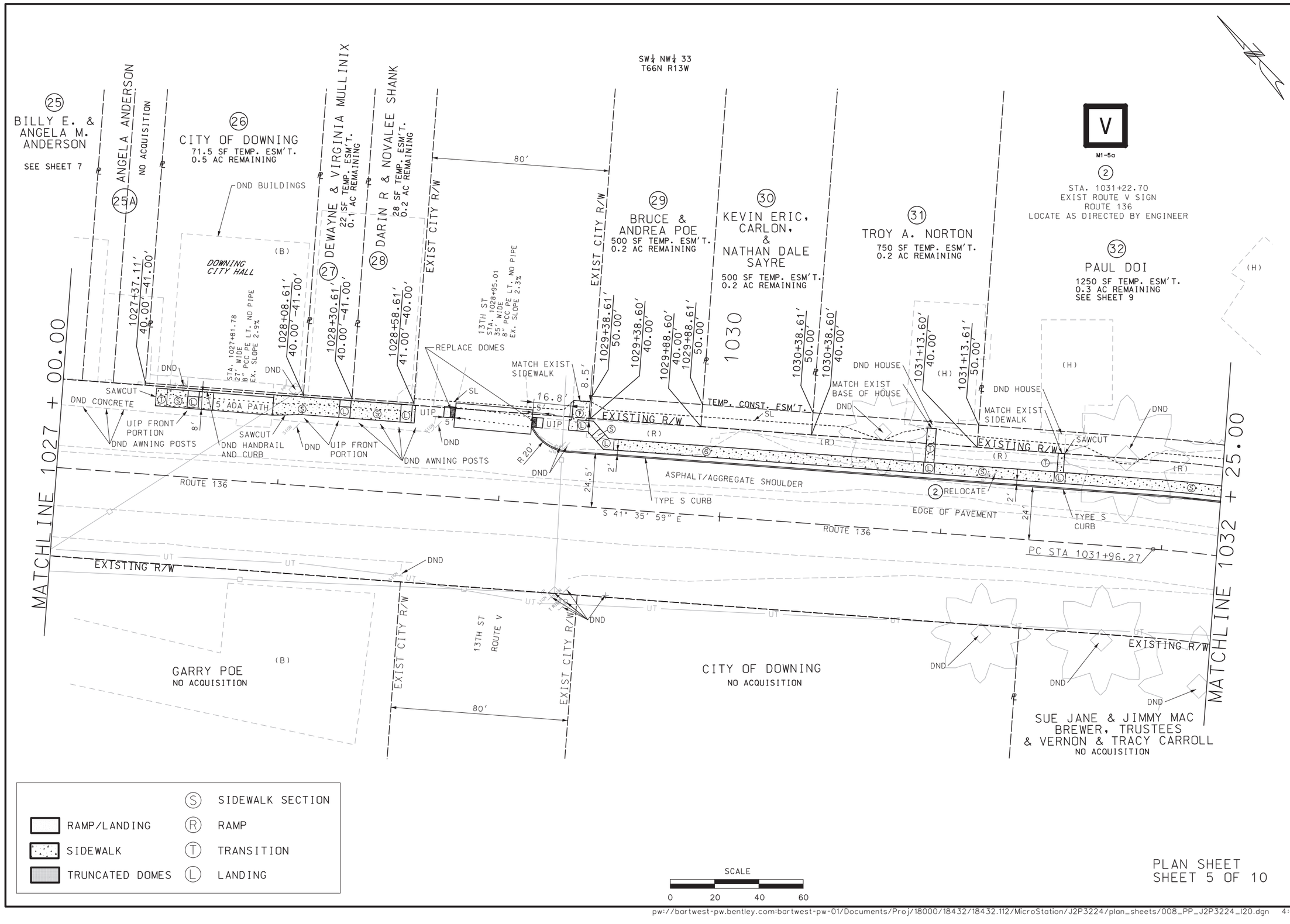
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.112/MicroStation/J2P3224/plan_sheets/007_PP_J2P3224_I20.dgn 4:05:44 PM 1/31/2020




PLAN SHEET
SHEET 5 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 8 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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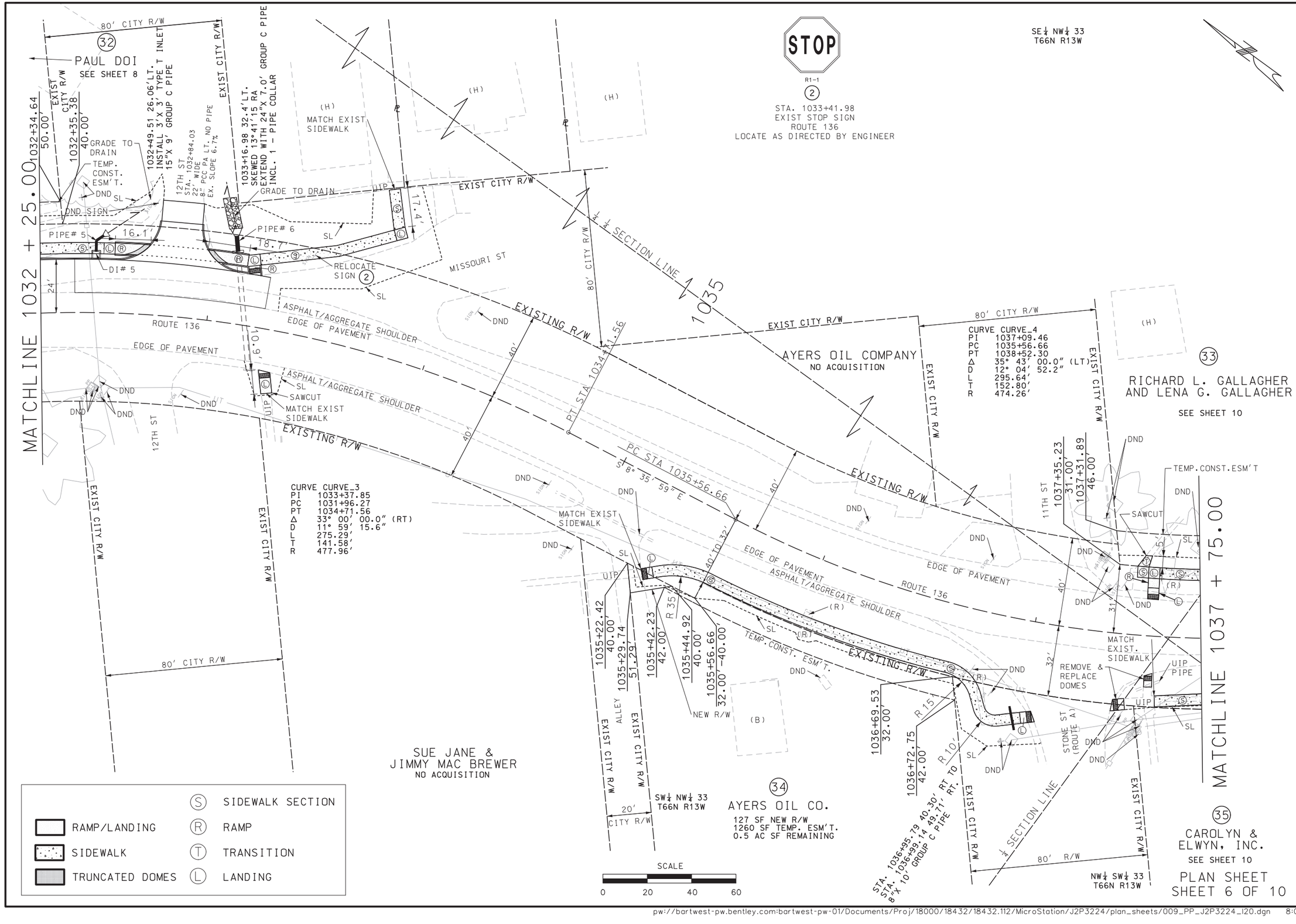


STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 9 |

COUNTY: SCHUYLER
JOB NO.: J2P3224
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
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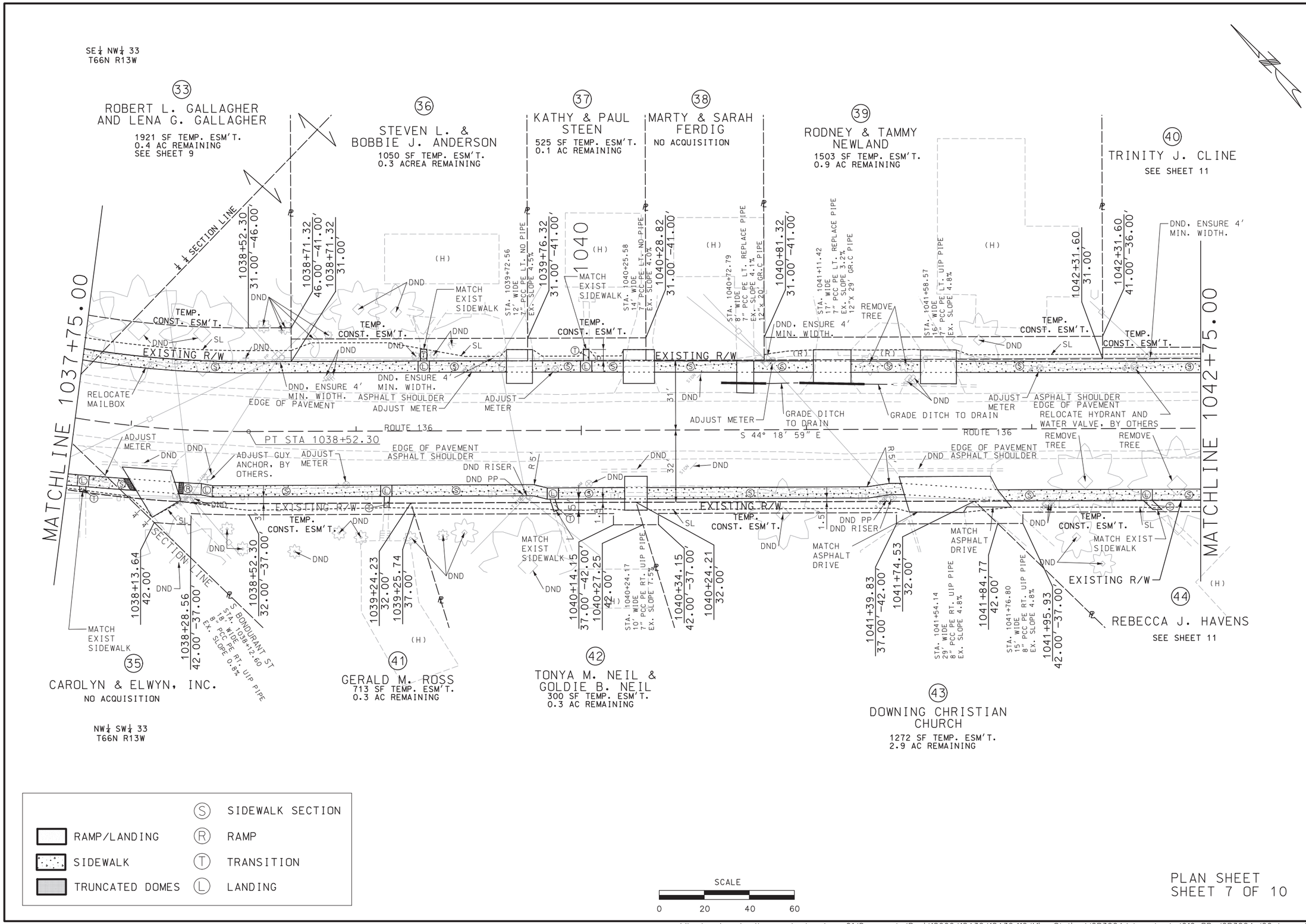


PLAN SHEET
SHEET 7 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 3/3/2020 |
| ROUTE 136 | STATE MO |
| DISTRICT NE | SHEET NO. 10 |
| COUNTY | SCHUYLER |
| JOB NO. | J2P3224 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DATE | DESCRIPTION |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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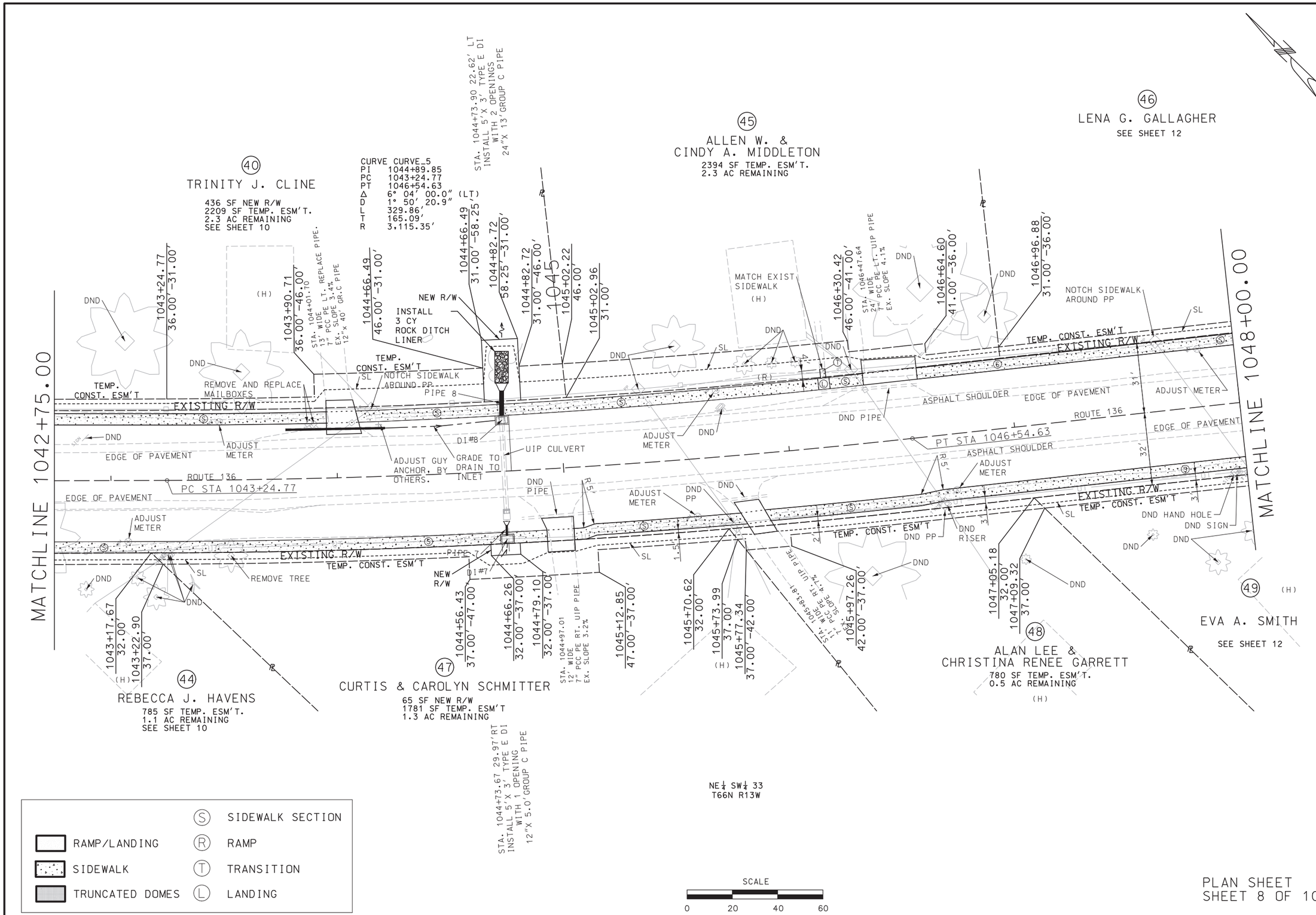
pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.112/MicroStation/J2P3224/plan_sheets/010_PP_J2P3224_I20.dgn 8:27:18 AM 3/3/2020




| | | | |
|---|---|---|---|
| | | (S) | SIDEWALK SECTION |
| | RAMP/LANDING | (R) | RAMP |
| | SIDEWALK | (T) | TRANSITION |
| | TRUNCATED DOMES | (L) | LANDING |

PLAN SHEET
SHEET 8 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 1/31/2020 |
| ROUTE | 136 |
| STATE | MO |
| DISTRICT | NE |
| SHEET NO. | 11 |
| COUNTY | SCHUYLER |
| JOB NO. | J2P3224 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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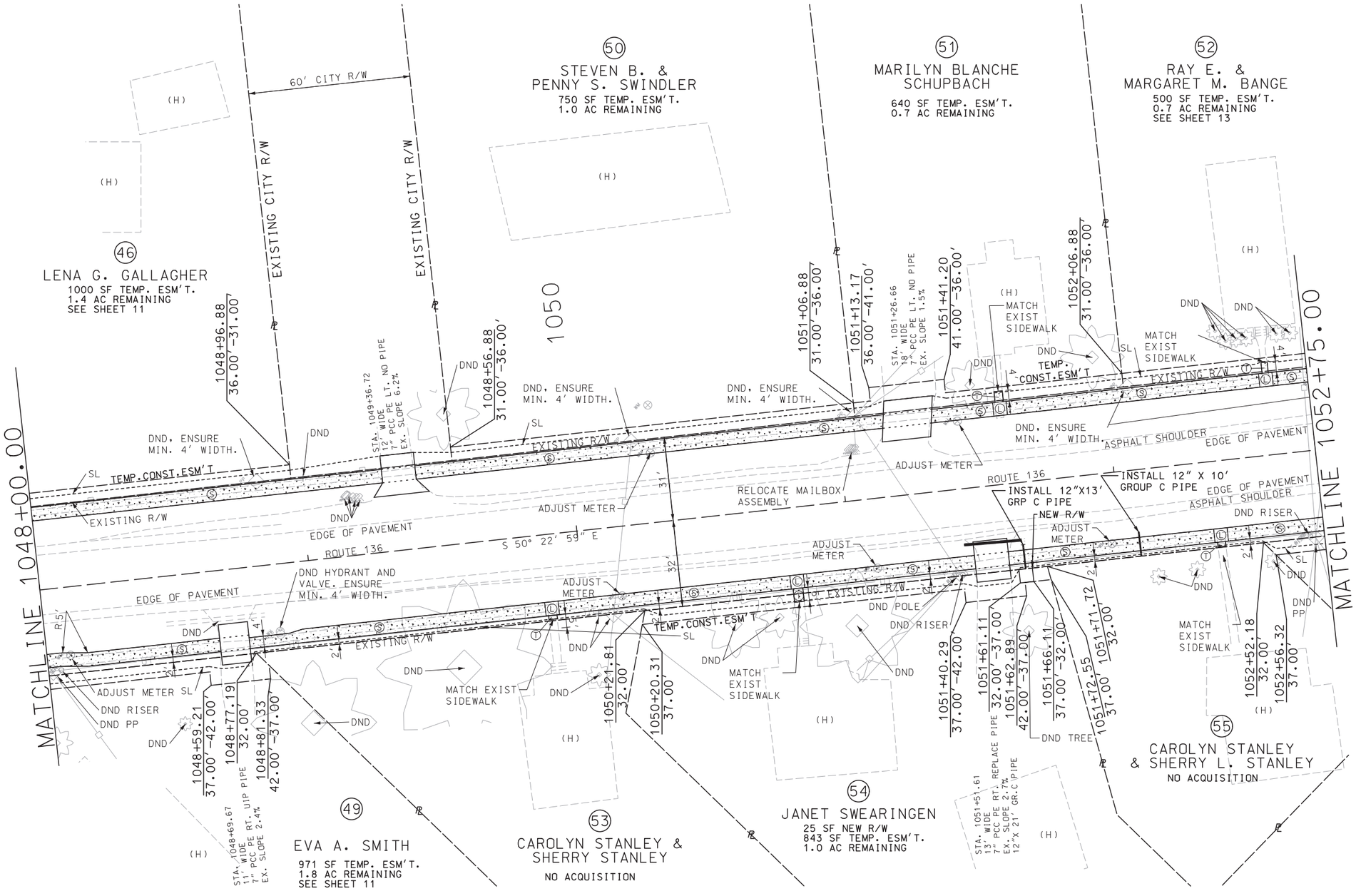
pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.112/MicroStation/J2P3224/plan_sheets/011_PP_J2P3224_I20.dgn 4:05:54 PM 1/31/2020




| | | | |
|---|---|---|---|
| | | Ⓢ | SIDEWALK SECTION |
| | RAMP/LANDING | Ⓡ | RAMP |
| | SIDEWALK | Ⓣ | TRANSITION |
| | TRUNCATED DOMES | Ⓛ | LANDING |

SCALE
0 20 40 60

PLAN SHEET
SHEET 9 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/3/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 12 |

COUNTY SCHUYLER
JOB NO. J2P3224
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

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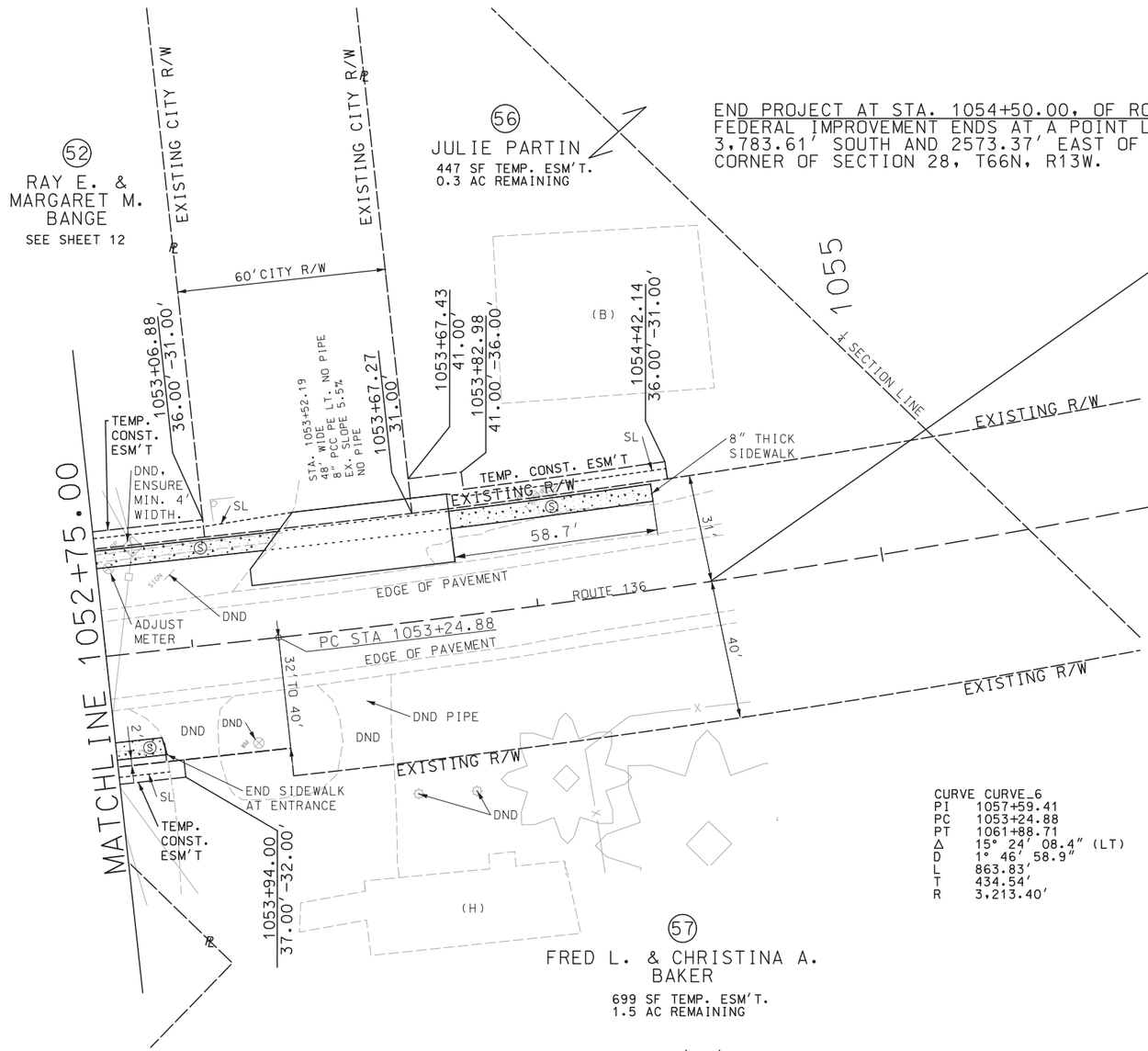


CURVE CURVE_6
PI 1057+59.41
PC 1053+24.88
PT 1061+88.71
Δ 15° 24' 08.4" (LT)
D 1° 46' 58.9"
L 863.83'
T 434.54'
R 3,213.40'

CERTIFIED LAND CORNER

STA. 1054+50.00 CENTERLINE OF ROUTE 136 IS LOCATED 4575.79' ON A BEARING OF S 34°13'16" E OF THE SOUTHWEST CORNER OF SECTION 28-66-13 RECORDED IN CORNER DOCUMENT NO. 600-37062.

| | |
|---|---|
| Ⓢ | SIDEWALK SECTION |
| RAMP/LANDING | Ⓡ RAMP |
| SIDEWALK | Ⓣ TRANSITION |
| TRUNCATED DOMES | Ⓛ LANDING |

SCALE
0 20 40 60

PLAN SHEET
SHEET 10 OF 10

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/31/2020
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 13
COUNTY SCHUYLER
JOB NO. J2P3224
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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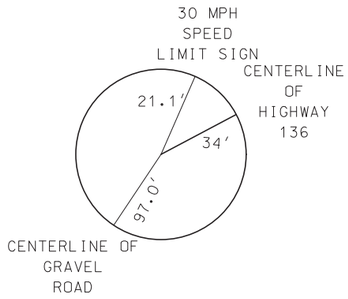
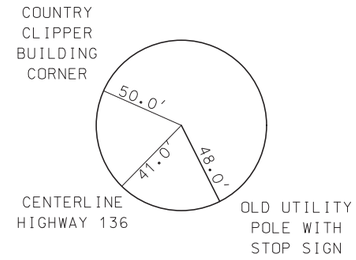
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

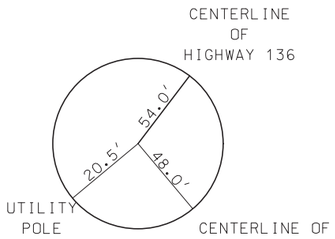
MISSOURI STATE PLANE CENTRAL ZONE, NAVD 88
COORDINATES LISTED ARE MODIFIED (GROUND) PROJECT COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.000101489 = MODIFIED (GROUND) COORDINATES



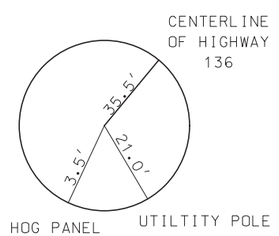

POINT 500
IRON BAR
MODIFIED STATE PLANE
N:1695874.928
E:1675908.265
ELEV.874.916




POINT 501
IRON BAR
MODIFIED STATE PLANE
N:1695058.153
E:1676834.979
ELEV.874.164




POINT 502
IRON BAR
MODIFIED STATE PLANE
N:1693714.203
E:1677674.656
ELEV.877.199




POINT 503
IRON BAR
MODIFIED STATE PLANE
N:1692454.173
E:1679039.861
ELEV.870.698

NOT TO SCALE

REFERENCE POINTS SHEET
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT
B. GREEN
NUMBER
PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 14 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

# Coordinate Point Listing
# Missouri Coordinate System of 1983

| COORDINATES FOR ROUTE 136 | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | MODIFIED STATE PLANE | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| 1 | 1008+34.16 | 1,695,919.8378 | 1,675,911.2600 | 1,696,091.9550 | 1,676,081.3466 | CHAIN: EX 136 CL | BEGIN PROJECT |
| P.C. STATION | 1008+50.15 | 1,695,882.3404 | 1,675,944.5515 | 1,696,054.4538 | 1,676,114.6414 | CHAIN: EX 136 CL | P.C. CURVE BUTTON |
| P.I. STATION | 1010+50.50 | 1,695,732.5309 | 1,676,077.5574 | 1,695,904.6291 | 1,676,247.6608 | CHAIN: EX 136 CL | P.I. CURVE BUTTON |
| P.T. STATION | 1012+50.16 | 1,695,603.3570 | 1,676,230.6835 | 1,695,775.4421 | 1,676,400.8025 | CHAIN: EX 136 CL | P.T. CURVE BUTTON |
| P.C. STATION | 1013+95.11 | 1,695,509.9060 | 1,676,341.4627 | 1,695,681.9816 | 1,676,511.5929 | CHAIN: EX 136 CL | P.C. CURVE BUTTON |
| P.I. STATION | 1015+96.31 | 1,695,380.1866 | 1,676,495.2356 | 1,695,552.2490 | 1,676,665.3814 | CHAIN: EX 136 CL | P.I. CURVE BUTTON |
| P.T. STATION | 1017+96.81 | 1,695,229.7442 | 1,676,628.8032 | 1,695,401.7914 | 1,676,798.9626 | CHAIN: EX 136 CL | P.T. CURVE BUTTON |
| P.C. STATION | 1031+96.27 | 1,694,183.3335 | 1,677,557.8416 | 1,694,355.2745 | 1,677,728.0953 | CHAIN: EX 136 CL | P.C. CURVE BUTTON |
| P.I. STATION | 1033+37.85 | 1,694,077.4728 | 1,677,651.8284 | 1,694,249.4030 | 1,677,822.0916 | CHAIN: EX 136 CL | P.I. CURVE BUTTON |
| P.T. STATION | 1034+71.56 | 1,693,937.5017 | 1,677,672.9963 | 1,694,109.4177 | 1,677,843.2617 | CHAIN: EX 136 CL | P.T. CURVE BUTTON |
| P.C. STATION | 1035+56.66 | 1,693,853.3630 | 1,677,685.7208 | 1,694,025.2705 | 1,677,855.9874 | CHAIN: EX 136 CL | P.C. CURVE BUTTON |
| P.I. STATION | 1037+09.46 | 1,693,702.2962 | 1,677,708.5667 | 1,693,874.1884 | 1,677,878.8357 | CHAIN: EX 136 CL | P.I. CURVE BUTTON |
| P.T. STATION | 1038+52.30 | 1,693,592.9800 | 1,677,815.3051 | 1,693,764.8611 | 1,677,985.5849 | CHAIN: EX 136 CL | P.T. CURVE BUTTON |
| P.C. STATION | 1043+24.77 | 1,693,254.9679 | 1,678,145.3463 | 1,693,426.8147 | 1,678,315.6596 | CHAIN: EX 136 CL | P.C. CURVE BUTTON |
| P.I. STATION | 1044+89.85 | 1,693,136.8618 | 1,678,260.6672 | 1,693,308.6966 | 1,678,430.9922 | CHAIN: EX 136 CL | P.I. CURVE BUTTON |
| P.T. STATION | 1046+54.63 | 1,693,031.6050 | 1,678,387.8244 | 1,693,203.4291 | 1,678,558.1623 | CHAIN: EX 136 CL | P.T. CURVE BUTTON |
| P.C. STATION | 1053+24.88 | 1,692,604.2642 | 1,678,904.0801 | 1,692,776.0449 | 1,679,074.4704 | CHAIN: EX 136 CL | P.C. CURVE BUTTON |
| 2 | 1054+50.00 | 1,692,526.3837 | 1,679,001.9843 | 1,692,698.1565 | 1,679,172.3845 | CHAIN: EX 136 CL | END PROJECT |

| COORDINATES FOR 17TH STREET | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | MODIFIED STATE PLANE | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| 102 | 10+00.00 | 1,695,521.6007 | 1,676,327.5995 | 1,695,693.6775 | 1,676,497.7283 | CHAIN: EX 17 ST CL | POT |
| 103 | 12+08.02 | 1,695,659.5692 | 1,676,483.2560 | 1,695,831.6600 | 1,676,653.4006 | CHAIN: EX 17 ST CL | POT |

MISSOURI STATE PLANE CENTRAL ZONE, NAVD 88, NAD 83
COORDINATES LISTED ARE STATE PLANE (GRID) COORDINATES - U.S. SURVEY FEET
MODIFIED (GROUND) COORDINATES X 0.999898521 = STATE PLANE (GRID) COORDINATES

COORDINATE POINTS SHEET
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/31/2020
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 15
COUNTY SCHUYLER
JOB NO. J2P3224
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

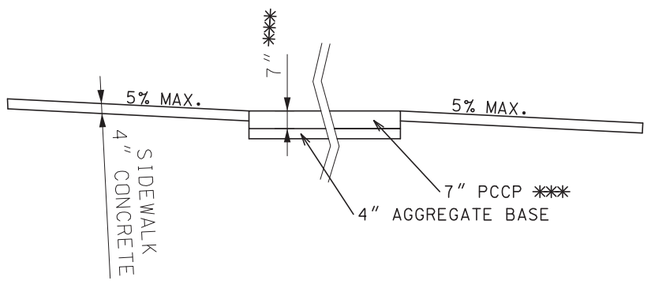
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.), UNLESS OTHERWISE NOTED IN THE PLANS.

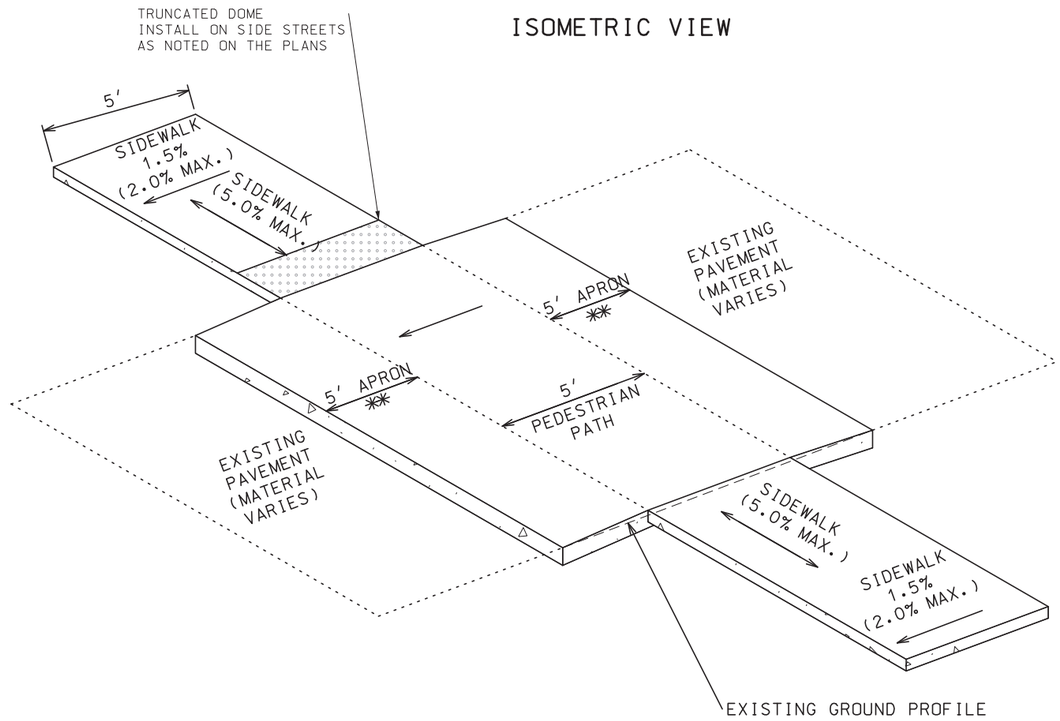
** APRONS, TYPICALLY 5′ IN WIDTH, CONSTRUCT AS NOTED IN THE PLANS. DIRECTION AND GRADE OF SLOPE WILL VARY BASED ON THE EXISTING DRIVE (SEE DRIVE PROFILES FOR SLOPES). SOME DRIVES DO NOT REQUIRE APRONS (SEE PLAN SHEET).

*** PAVEMENT THICKNESS IS 7″ FOR RESIDENTIAL AND COMMERICAL DRIVES, AND ALLEYS. PAVEMENT THICKNESS IS 8″ FOR SIDESTREETS.

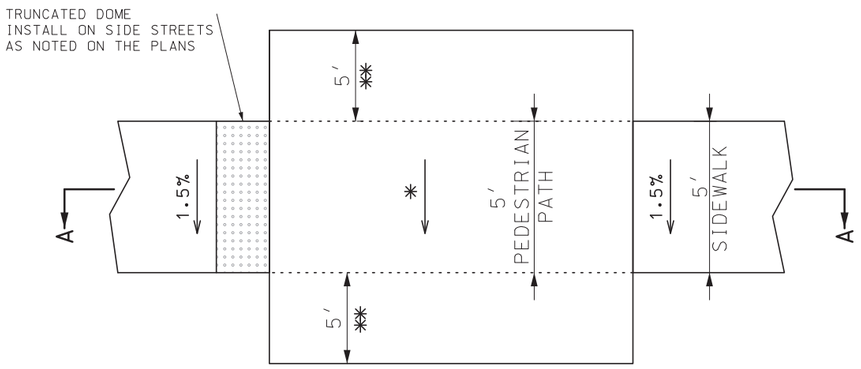
## SECTION A–A




## ISOMETRIC VIEW




## PLAN VIEW




PLAN AND ISOMETRIC VIEW OF
RESIDENTIAL DRIVES, COMMERCIAL DRIVES,
ALLEYS AND SIDE STREETS

SPECIAL SHEET
ADA DETAILS
SHEET 1 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 16 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

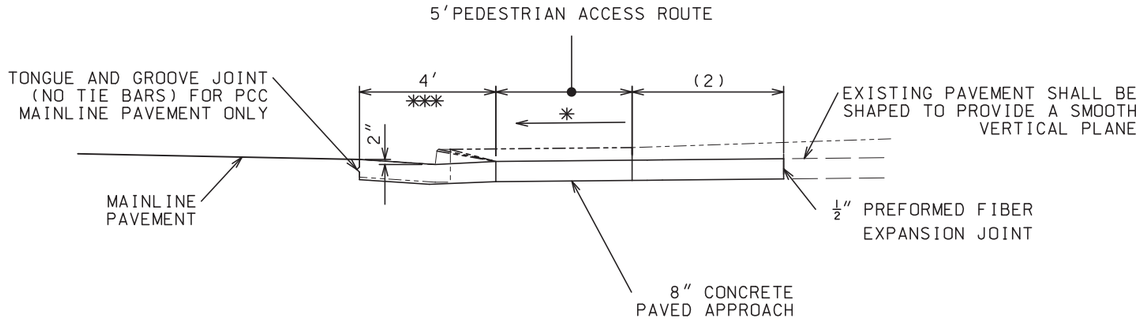
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

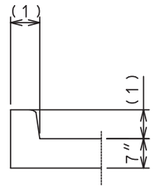
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

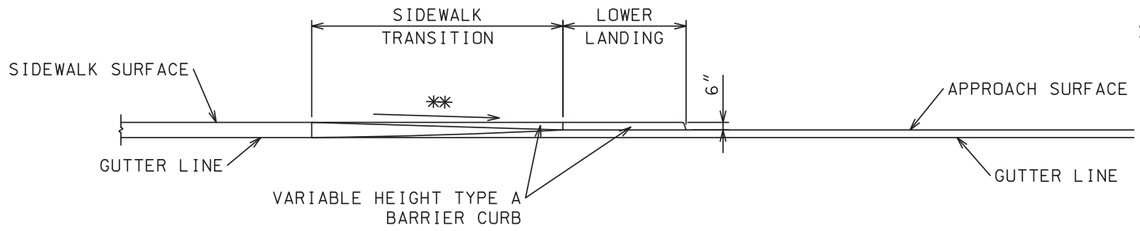



SECTION A–A

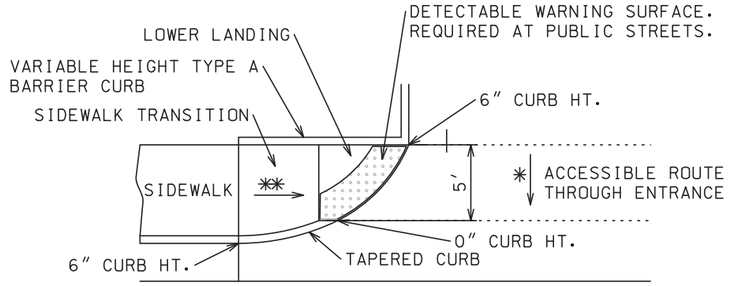



TYPE A (INTEGRAL)

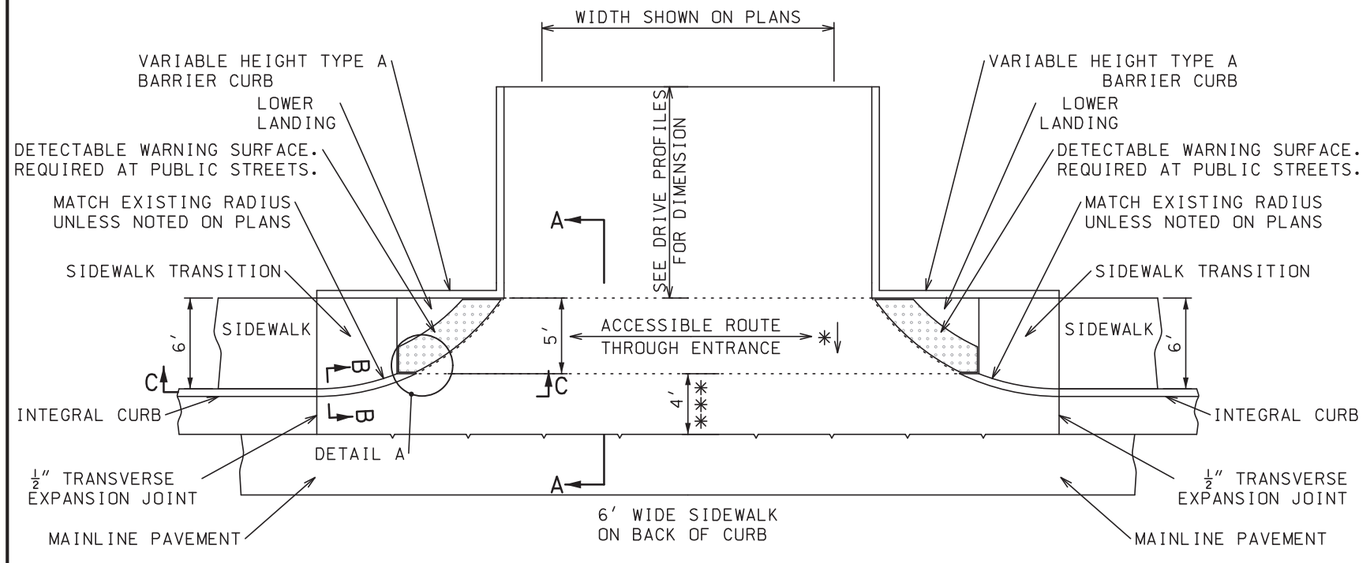
SECTION B–B




SECTION C–C




DETAIL A




(SEE PLAN SHEETS FOR LOCATION OF SIDEWALK RELATIVE TO THE CURB)

PLAN OF NON–SIGNALIZED SIDE STREET APPROACHES

* THE CROSS SLOPE OF THE CONTINUOUS PEDESTRIAN ACCESS ROUTE SHALL BE 1.5% TO FACILITATE DRAINAGE (2.00% MAX.).

** SIDEWALK TRANSITION 5.00% MAXIMUM SLOPE.

*** NOTE THAT THE DIMENSIONS SHOWN ON THIS SHEET ARE DESIRED. SEE DRIVEWAY PROFILES FOR DIMENSIONS.

(1) 6″ – EXCEPT WHERE VARIED TO MEET EXISTING IMPROVEMENTS.
(2) EXTEND WHERE REQUIRED TO MEET EXISTING PAVEMENT.

GENERAL NOTES:

WHERE PAVED APPROACH MEETS EXISTING CONCRETE PAVEMENT OR SIDEWALK, PLACE ½″ PREFORMED FIBER EXPANSION JOINT, CUT TO TEMPLATE, THROUGH NEW CONCRETE AND 1′ FROM JUNCTION WITH EXISTING CONCRETE, OR ALONG INSIDE EDGE OF SIDEWALK. WHERE PAVED APPROACH MEETS EXISTING BITUMINOUS CONSTRUCTION, OMIT JOINT.

SEE STANDARD PLAN 502.05 FOR TYPE AND LOCATION OF CONCRETE PAVEMENT JOINTS.

SEE STANDARD PLAN 609.00 FOR TRANSVERSE EXPANSION JOINT DETAILS.

IF SIDEWALKS ARE NOT INCLUDED IN CONSTRUCTION OF PAVED APPROACH, PLACE GROUND COVER, AS SHOWN ON PLANS, BEHIND CURB THROUGH RADIUS. GROUND COVER SHALL CONFORM TO FINISHED GRADING FOR CURB RAMP.

HAND FINISHING PERMITTED ON PAVED APPROACH.

THE APPROACH GRADE THROUGH THE LIMITS OF A SIDEWALK SHALL NOT EXCEED 2.00%.

SEE STANDARD PLAN 608.00 FOR PAVED APPROACH JOINT DETAILS.

VARIABLE HEIGHT TYPE A INTEGRAL CURB SHALL BE CONSTRUCTED ACCORDING TO STANDARD PLANS. PAID FOR PER SQUARE YARD ON CONCRETE CURB RAMP

SPECIAL SHEET
ADA DETAILS
SHEET 2 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE–25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 17 |

COUNTY SCHUYLER

JOB NO. J2P3224

CONTRACT ID.

PROJECT NO.

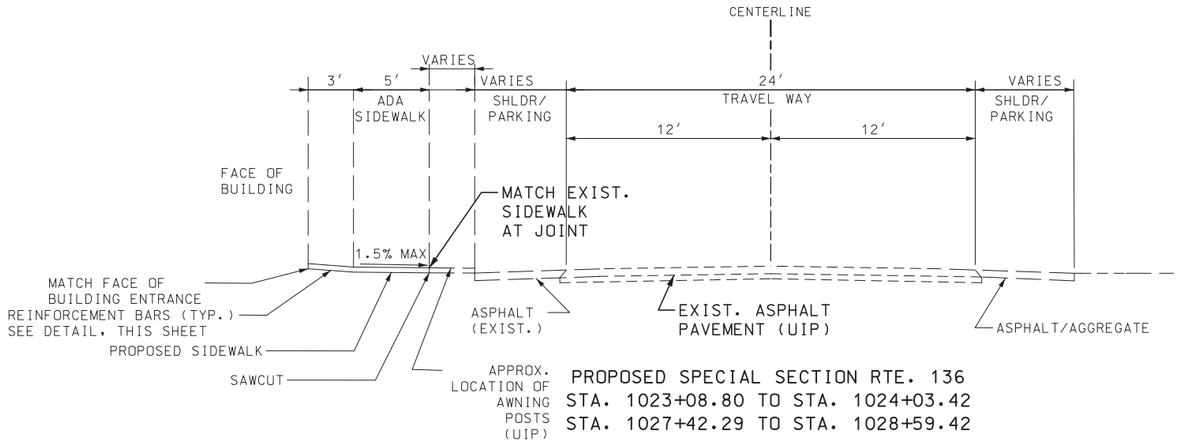
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

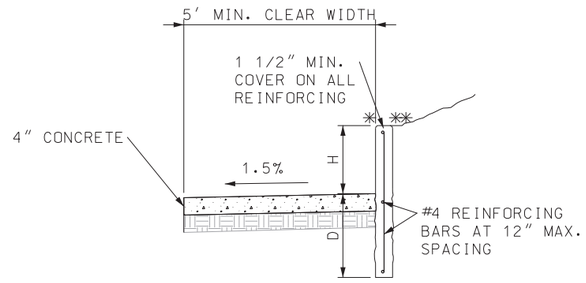
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

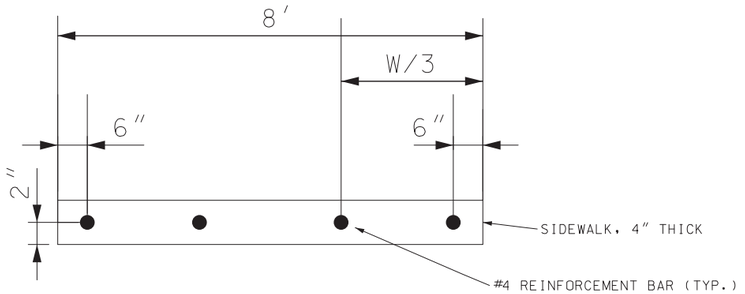



PROPOSED SPECIAL SECTION RTE. 136
STA. 1023+08.80 TO STA. 1024+03.42
STA. 1027+42.29 TO STA. 1028+59.42




✳ ROUND TO 3/4″ RADIUS
✳✳ ROUND TO 1/4″ RADIUS
H = VARIES (2′-6″ MAX. (30″))
D = BURY DEPTH (FORMING NOT REQUIRED)
THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
VERTICAL REINFORCING LENGTHS VARY AS NEEDED
DEPTH MAY BE REDUCED IF KEYED 6″ IN ROCK

DETAIL
MODIFIED CONCRETE CURB
(OVER 6 IN. HEIGHT) TYPE S
NOT TO SCALE




SIDEWALK DETAIL

SPECIAL SHEET
SIDEWALK SECTIONS
SHEET 3 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

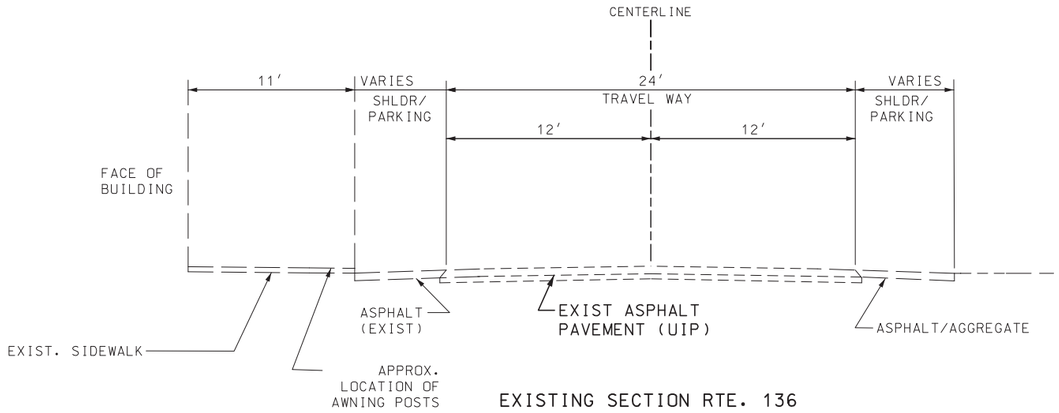
DATE PREPARED 1/31/2020
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 18
COUNTY SCHUYLER
JOB NO. J2P3224
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

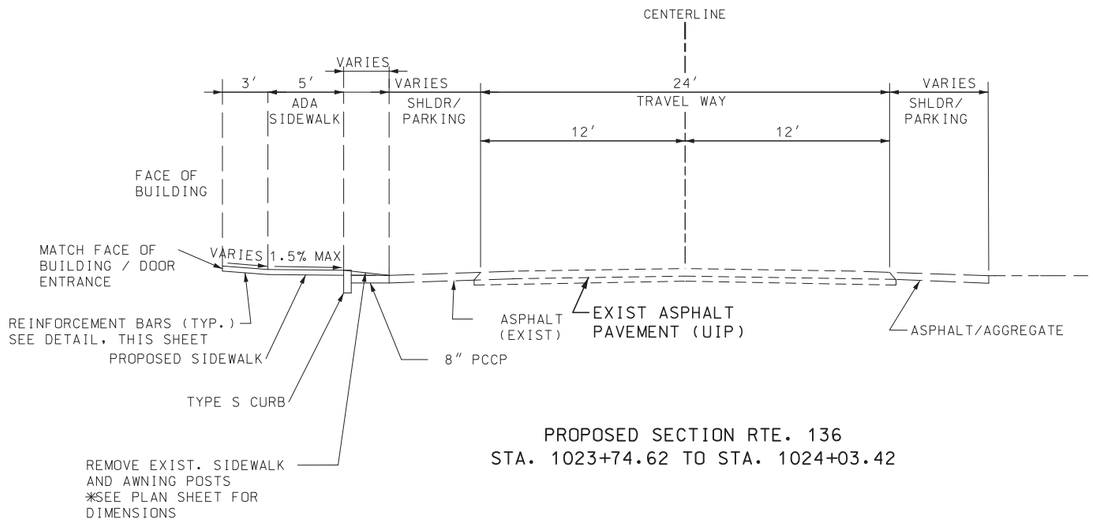
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

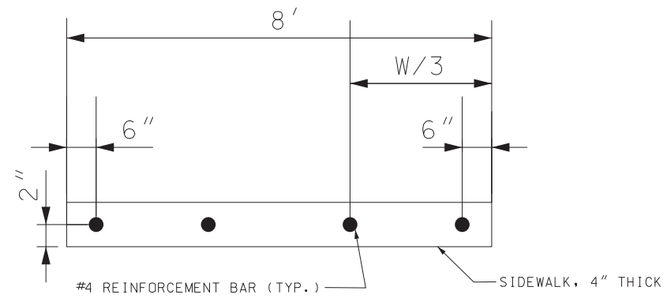
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




EXISTING SECTION RTE. 136
STA. 1023+74.62 TO STA. 1024+03.42

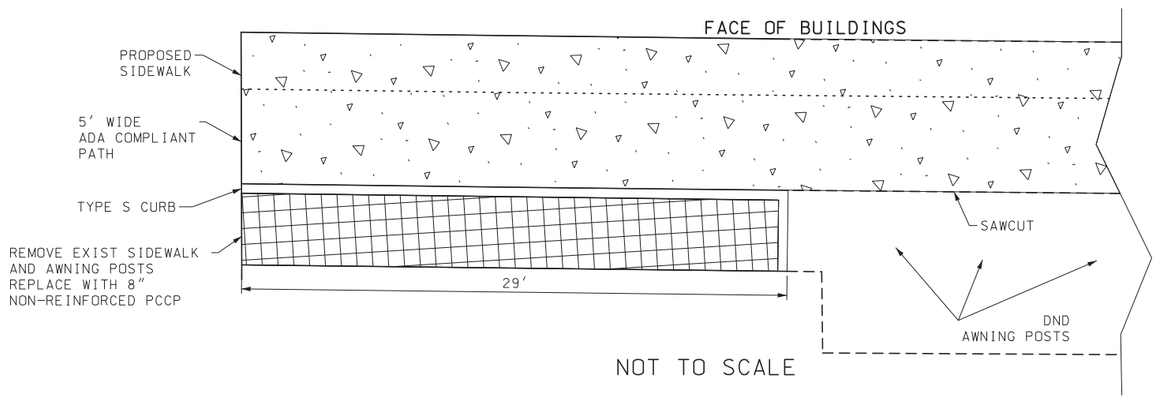



PROPOSED SECTION RTE. 136
STA. 1023+74.62 TO STA. 1024+03.42




SIDEWALK DETAIL

PLAN VIEW
STA. 1023+74.62 TO STA. 1024+11.39




NOT TO SCALE

SPECIAL SHEET
SIDEWALK SECTIONS
SHEET 4 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 19 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

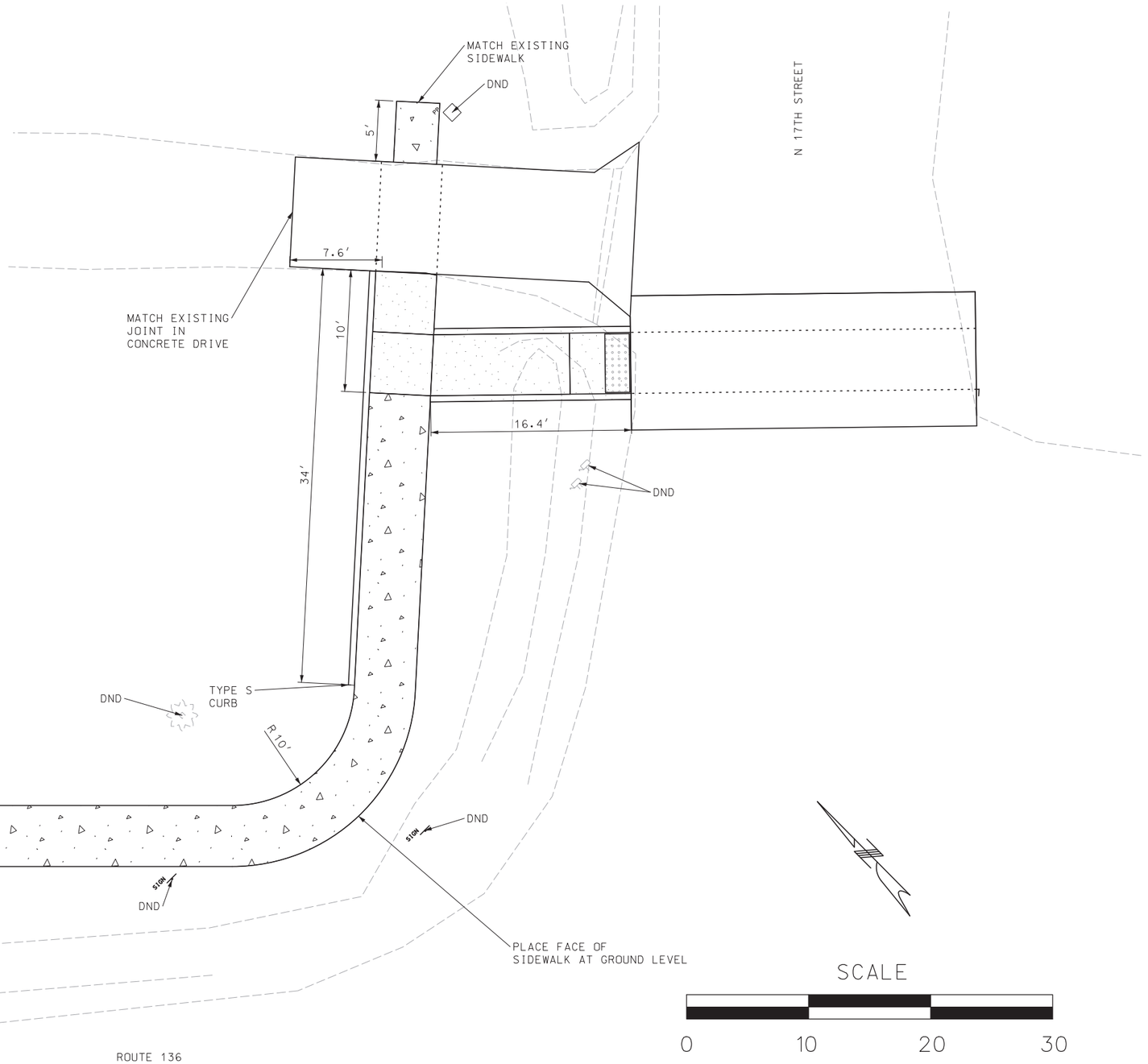
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




SCALE

0 10 20 30

SPECIAL SHEET
SIDEWALK SECTIONS
SHEET 5 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 20 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West

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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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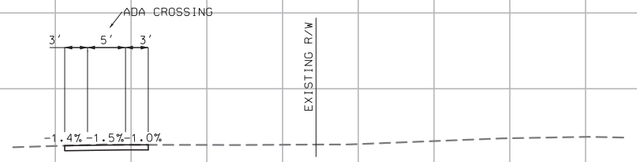
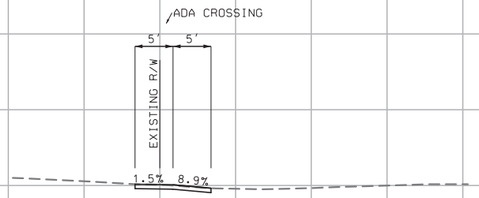
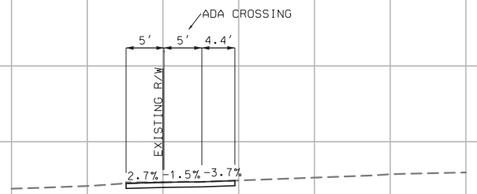


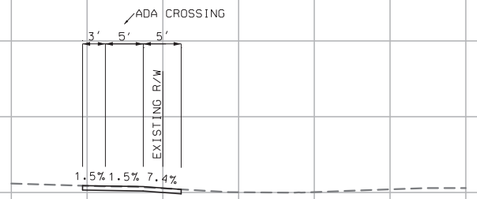

17TH STSTA.1013+79.64
8" PAVED ENTRANCE LT
NO PIPE



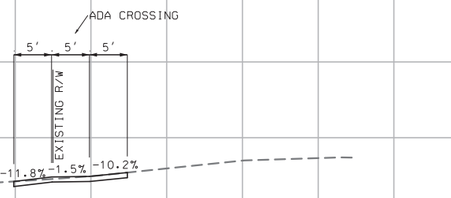

STA.1012+33.87
7" PAVED ENTRANCE LT
UIP PIPE



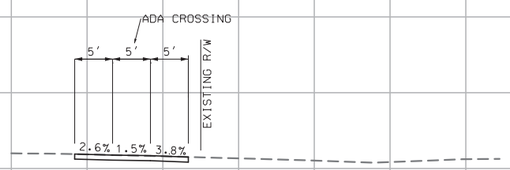

15TH ST
STA.1021+36.79
8" PAVED ENTRANCE LT
NO PIPE



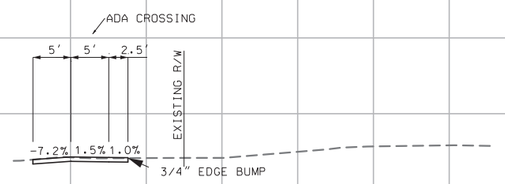

STA.1011+74.99
7" PAVED ENTRANCE LT
UIP PIPE



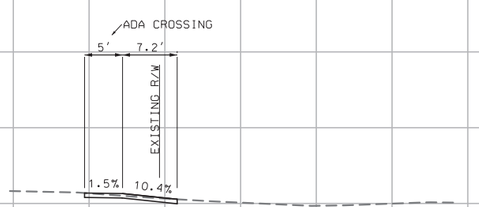

16TH ST
STA.1017+55.62
8" PAVED ENTRANCE LT
NO PIPE



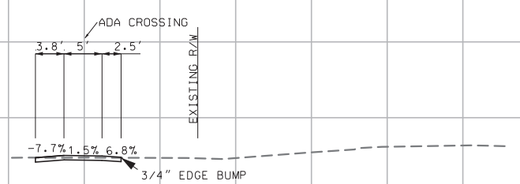

ROUTE N
STA.1010+68.50
8" PAVED ENTRANCE LT
NO PIPE



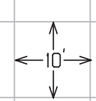

STA.1015+05.21
7" PAVED APPROACH LT
NO PIPE




7" STA.1009+00.12
PAVED ENTRANCE LT
8"X19' PIPE




STA.1014+80.60
7" PAVED APPROACH LT
NO PIPE




DRIVE PROFILES
SPECIAL SHEET
SHEET 6 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 21 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

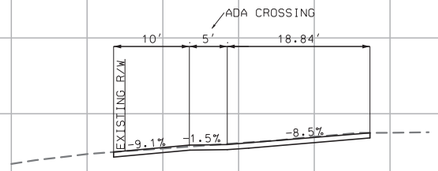
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

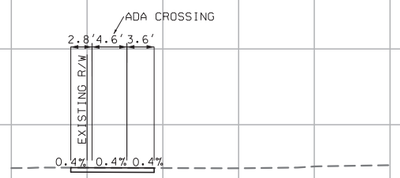
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

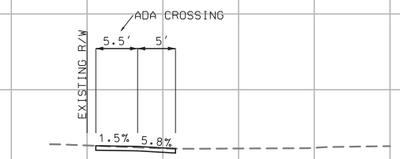
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



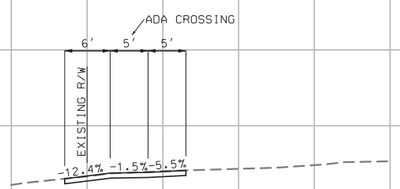

12TH ST
STA.1032+84.03
8" PAVED APPROACH LT
NO PIPE



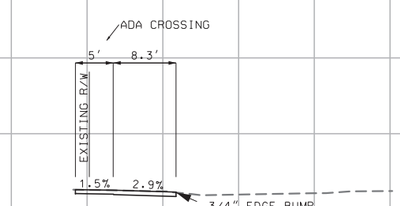

13TH ST
STA.1028+95.01
8" PAVED ENTRANCE LT
NO PIPE



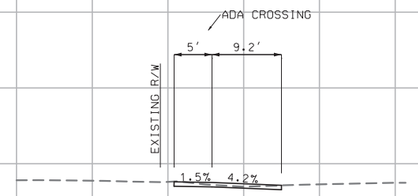

STA.1027+81.78
8" PAVED ENTRANCE LT
NO PIPE



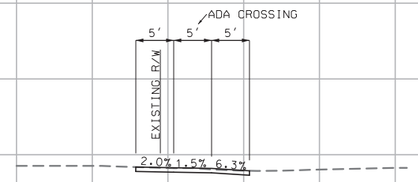

14TH ST
STA.1025+06.60
8" PAVED ENTRANCE
NO PIPE



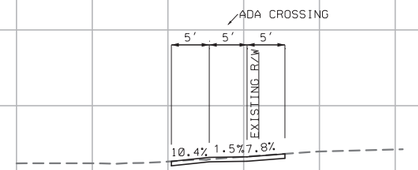

STA.1023+63.63
8" PAVED ENTRANCE
NO PIPE



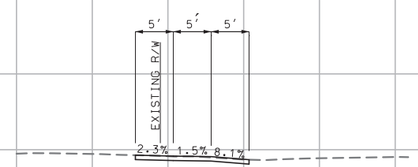

STA.1040+72.79
7" PAVED ENTRANCE LT
UIP PIPE



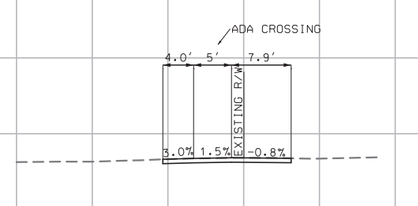

STA.1040+25.58
7" PAVED ENTRANCE LT
NO PIPE

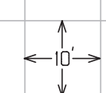



STA.1040+24.17
7" PAVED ENTRANCE RT
UIP PIPE




STA.1039+72.56
7" PAVED ENTRANCE LT
NO PIPE




S BONDURANT ST
STA.1038+12.60
8" PAVED ENTRANCE RT
UIP PIPE

DRIVE PROFILES
SPECIAL SHEET
SHEET 7 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

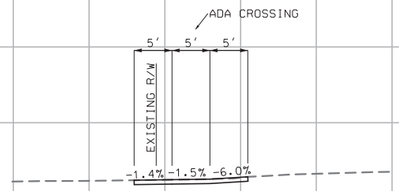
DATE PREPARED: 3/3/2020
ROUTE: 136 | STATE: MO
DISTRICT: NE | SHEET NO.: 22
COUNTY: SCHUYLER
JOB NO.: J2P3224
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

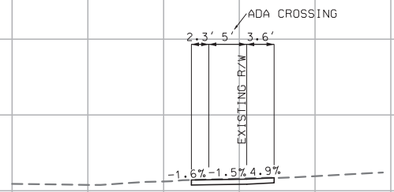
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

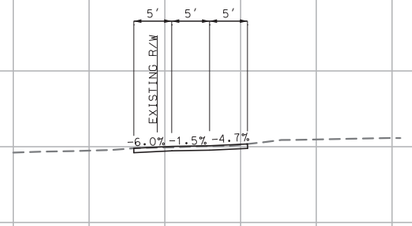
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



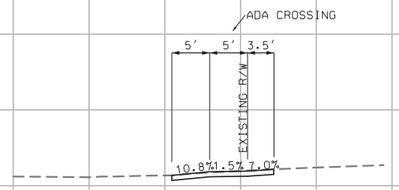

STA.1044+01.70
7" PAVED ENTRANCE LT
UIP PIPE



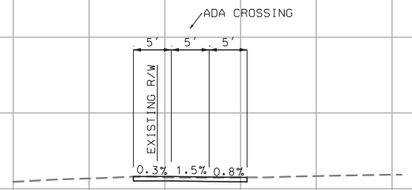

STA.1041+76.80
8" PAVED ENTRANCE RT
UIP PIPE



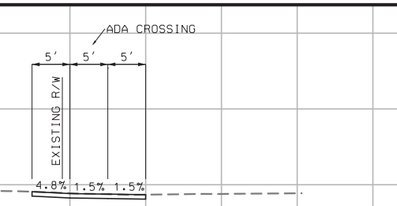

STA.1041+58.57
7" PAVED ENTRANCE LT
UIP PIPE



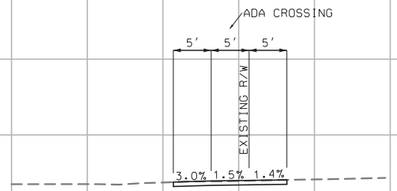

STA.1041+54.14
8" PAVED ENTRANCE RT
UIP PIPE



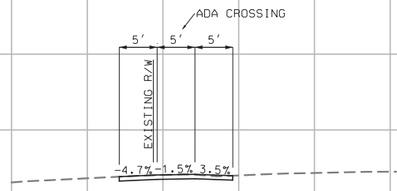

STA.1041+11.42
7" PAVED ENTRANCE LT
UIP PIPE



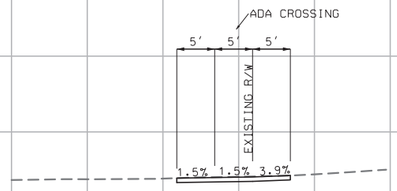

STA.1049+36.72
7" PAVED ENTRANCE LT
NO PIPE



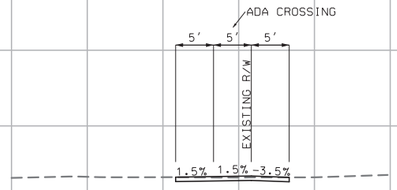

STA.1048+69.67
7" PAVED ENTRANCE RT
UIP PIPE



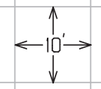

STA.1046+47.64
7" PAVED ENTRANCE LT
UIP PIPE




STA.1045+83.81
7" PAVED ENTRANCE RT
UIP PIPE




STA.1044+97.01
7" PAVED ENTRANCE RT
UIP PIPE




DRIVE PROFILES
SPECIAL SHEET
SHEET 8 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 23 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

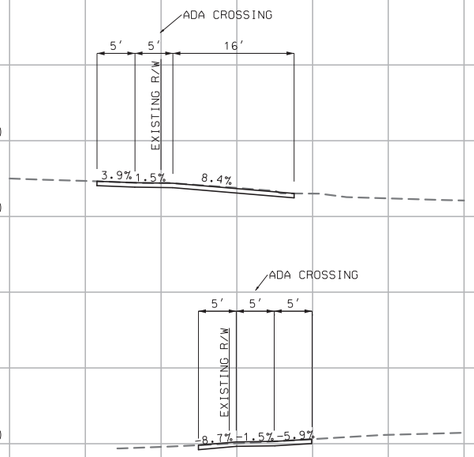
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

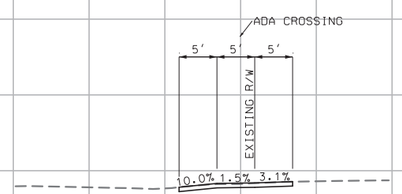
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



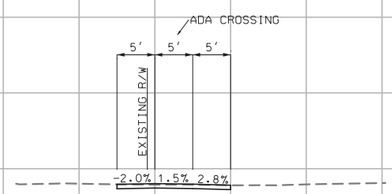

STA.10+78.11,CL 17TH ST
7" PAVED ENTRANCE LT
NO PIPE




STA.1053+52.19
8" PAVED ENTRANCE LT
NO PIPE




STA.1051+51.61
7" PAVED ENTRANCE RT
UIP PIPE




STA.1051+26.66
7" PAVED ENTRANCE LT
NO PIPE

DRIVE PROFILES
SPECIAL SHEET
SHEET 9 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |

| DISTRICT | SHEET NO. |
|---|---|
| NE | 24 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

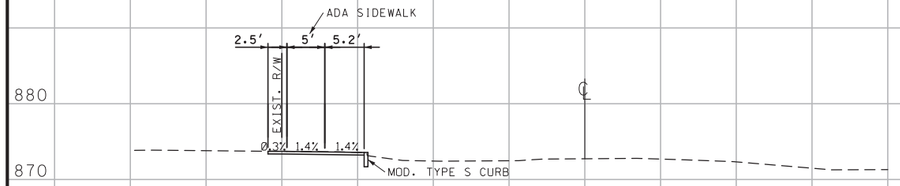
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

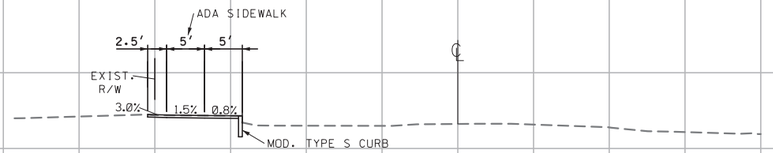
| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

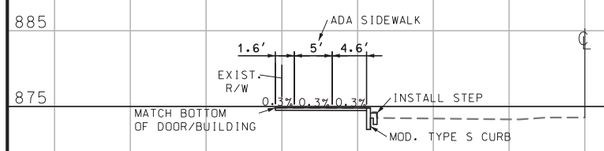
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



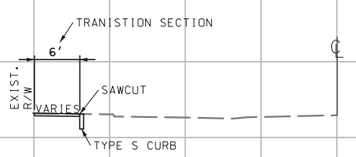

STA.1023+50.00



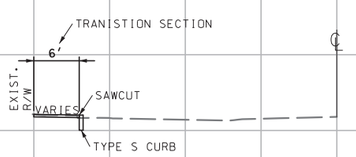

STA.1023+29.37



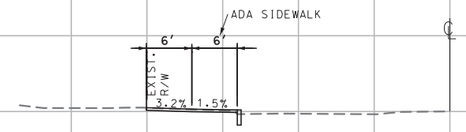

STA.1023+17.07



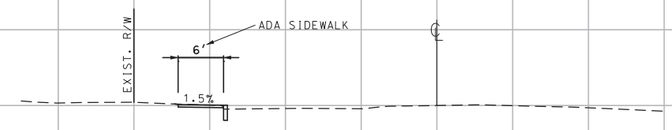

STA.1020+10.42



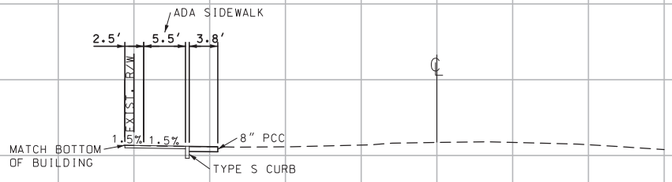

STA.1019+80.04



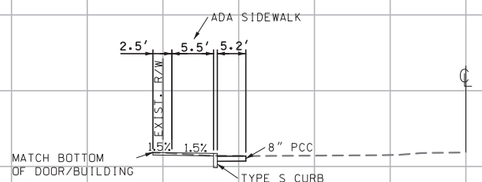

STA.1026+06.15



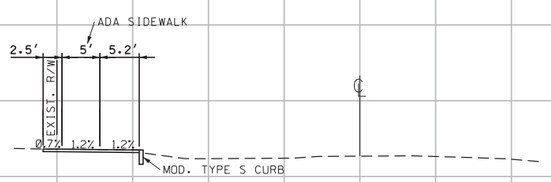

STA.1026+00.00




STA.1024+00.00




STA.1023+92.16




STA.1023+52.62

ISOLATED SIDEWALK SECTIONS
SPECIAL SHEET
SHEET 10 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 25 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

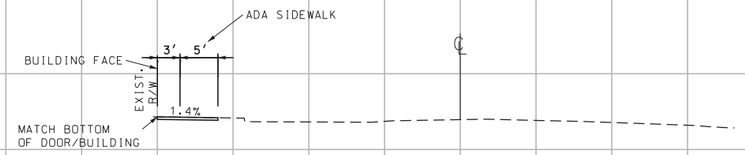
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

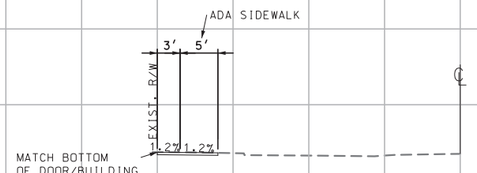
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

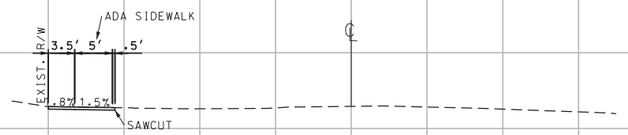
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.




STA.1028+50.00




STA.1028+27.83

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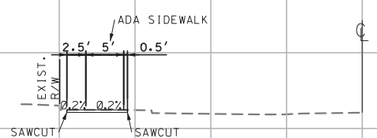
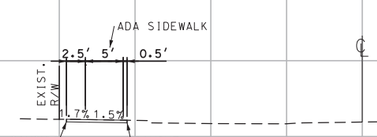
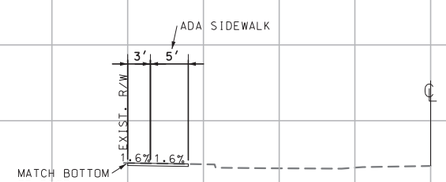



STA.1027+59.23




STA.1027+50.00




STA.1028+54.84

ISOLATED SIDEWALK SECTIONS
SPECIAL SHEET
SHEET 11 OF 11

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |

| DISTRICT | SHEET NO. |
|---|---|
| NE | 26 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

# LANE CLOSURE – FLAGGER CONTROL

W020-1
(2A)

AWRS

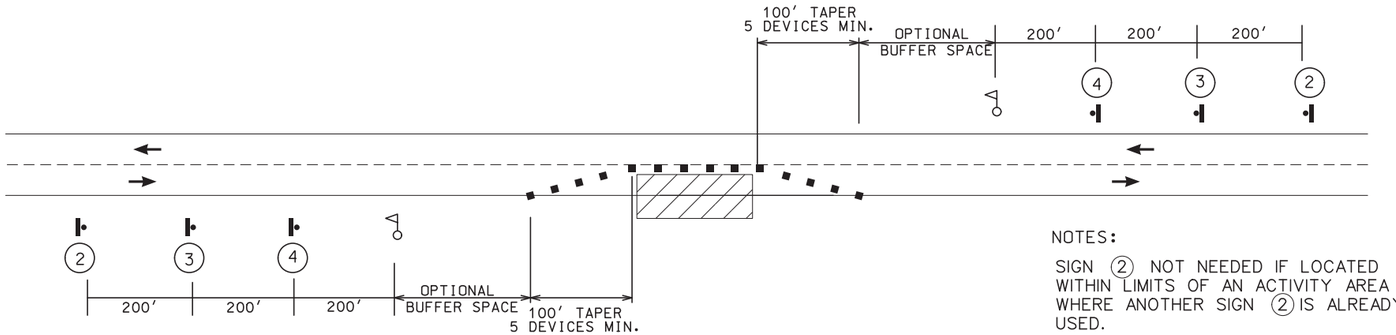
NOTES:
ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

W020-7a (4)

W020-4 (3)

W020-1 (2)

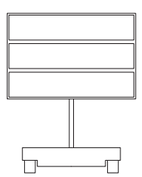



NOTES:
SIGN (2) NOT NEEDED IF LOCATED WITHIN LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN (2) IS ALREADY USED.

W020-1 (2)

W020-4 (3)

W020-7a (4)



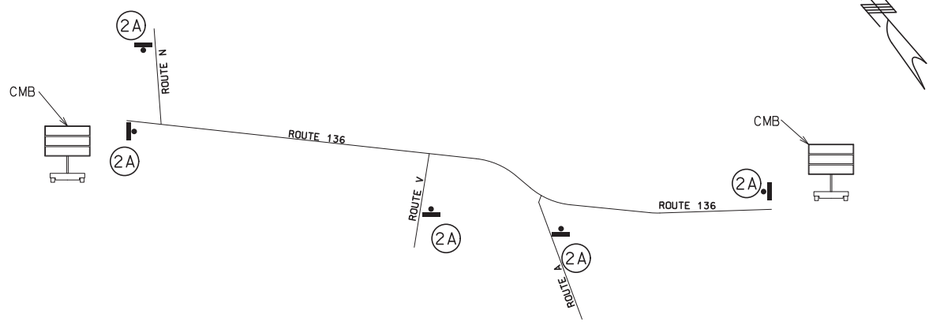
LOCATION AND INFORMATION DISPLAYED ON CHANGEABLE MESSAGE BOARDS SHALL BE DETERMINED BY ENGINEER.

NOT TO SCALE

## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- FLAGGER

## BEGIN AND END ROADWORK SIGNING (INSTALLED FOR DURATION OF PROJECT)




NOT TO SCALE

| TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES [2] | | | | |
|---|---|---|---|---|
| SPEED MPH (S) [1] | TAPER LENGTHS (L) FOR LATERAL SHIFTS (W) FT [2] | | CHANNELIZER SPACING [3], FT | |
| | SHOULDER [4] (T1) | LANE [5] (T2) | TAPERS | BUFFER/ WORK AREA |
| UP TO 35 | 70 | 245 | 35 [6] | 40 [6] |
| 40-45 | 150 | 540 | 40 [6] | 80 [6] |
| 50-55 | 185 | 660 | 50 [7] | 80 [7] |
| 60-70 | 235 | 840 | 60 [7] | 120 [7] |

1) SPEED LIMIT IS BASED ON POSTED SPEED LIMIT.
2) TAPER LENGTHS MAY BE ADJUSTED TO ACCOMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
3) CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
4) BASED ON 10 FT. SHOULDER WIDTH.
5) BASED ON 12 FT. LANE WIDTH.
6) SPACING REDUCED TO 1/2 AT INTERSECTIONS.
7) SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

| LONGITUDINAL BUFFER SPACE | |
|---|---|
| POSTED SPEED PRIOR TO CONSTRUCTION, MPH | LENGTH, FT. |
| UP TO 35 | 280 |
| 40-45 | 400 |
| 50-55 | 560 |
| 60-70 | 840 |

| SIGN SPACING FOR ADVANCE SIGN SERIES [8, 9] | | |
|---|---|---|
| POSTED SPEED MPH (P) | NON-DIVIDED HIGHWAYS (S) | DIVIDED HIGHWAYS (S) |
| 0-35 | 200 FT | 200 FT |
| 40-45 | 350 FT | 500 FT |
| 50-55 | 500 FT | 1000 FT |
| 60-70 | SA - 1000 FT, SB - 1500 FT AND SC - 2640 FT | |

8) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
9) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TAPER LENGTH (L)
L = W X P FOR 40 MPH OR MORE
L = $\frac{WP^2}{60}$ FOR 35 MPH OR LESS
L = TAPER LENGTH IN FEET
W = LATERAL SHIFT IN FEET
P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

TRAFFIC CONTROL PLAN
BEGIN/END OF PROJECT
SHEET 1 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 1/31/2020
ROUTE: 136 | STATE: MO
DISTRICT: NE | SHEET NO.: 27
COUNTY: SCHUYLER
JOB NO.: J2P3224
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

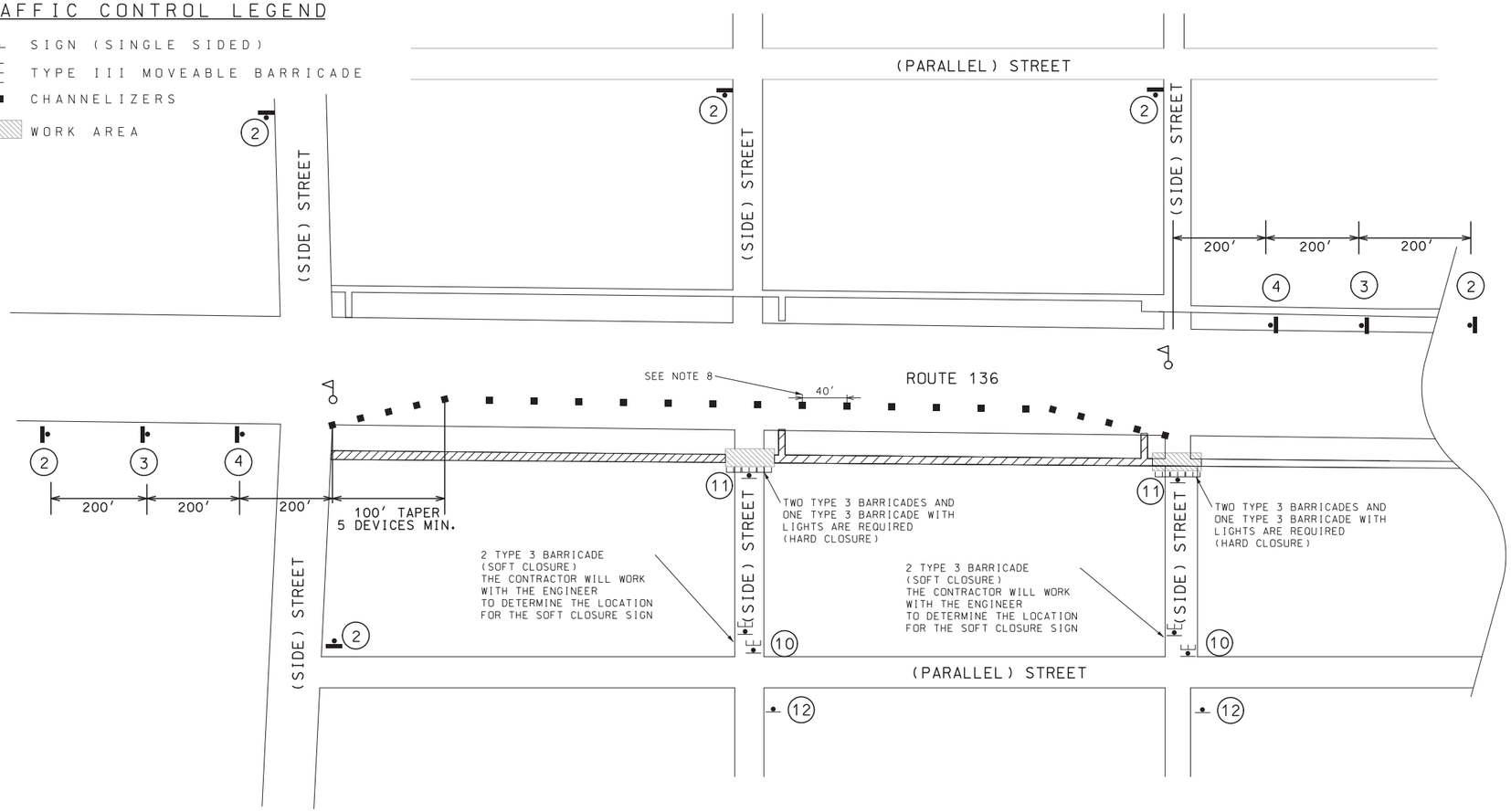
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- TYPE III MOVEABLE BARRICADE
- CHANNELIZERS
- WORK AREA



R11-2

(11)

R11-4

(10)

W020-4

(3)

W020-1

(2)

W020-3

(12)

W020-7a

(4)

GENERAL NOTES:
1) USE IN PLACE ALL SIGNS WHICH DO NOT CONFLICT WITH THIS PLAN. COVER AND/OR REMOVE CONFLICTING SIGNS.
2) QUANTITIES FOR TRAFFIC CONTROL ASSUMES ONE LANE DROP. LOCATIONS OF WORK AREAS SHALL BE APPROVED BY THE ENGINEER.
3) WORK SHALL BE CONDUCTED ON ONE SIDE OF ROUTE 136 AT A TIME.
4) ROUTE N SHALL ONLY HAVE ONE LANE CLOSED AT A TIME.
5) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS AND AS APPROVED BY TEH ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
6) ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.
7) AUTOMATED FLAGGER ASSISTANCE DEVICES AND PORTABLE SIGNAL FLAGGING DEVICES MAY BE USED AS AN ALTERNATIVE. SEE EPG 616.8 AND EPG 616.8.10C.
8) CHANNELIZERS SPACED AT MINIMUM 40′ IN WORK AREAS AND 20′ SPACING IN FRONT OF ENTRANCES DURING CLOSURE. SPACING MAY BE REDUCED TO DISCOURAGE ENCROACHMENT.
9) THE CONTRACTOR SHALL COORDINATE WITH RESIDENTS WHOSE DRIVEWAY IS TO BE RECONSTRUCTED IN ADVANCE TO PROVIDE ACCESS TO THE PROPERTY.
10) DURING NON-WORKING HOURS ALL LANES SHALL BE OPEN AND CHANNELIZERS MOVED TO THE SHOULDER.

# SIDE STREET CLOSURE & DRIVE REPLACEMENT

NOT TO SCALE

TRAFFIC CONTROL PLAN
SHEET 2 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 1/31/2020
ROUTE: 136 | STATE: MO
DISTRICT: NE | SHEET NO.: 28
COUNTY: SCHUYLER
JOB NO.: J2P3224
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

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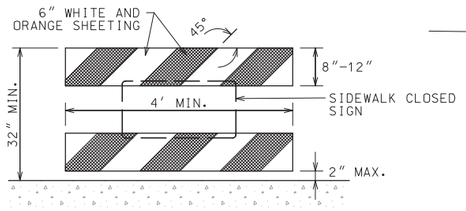
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## TRAFFIC CONTROL LEGEND

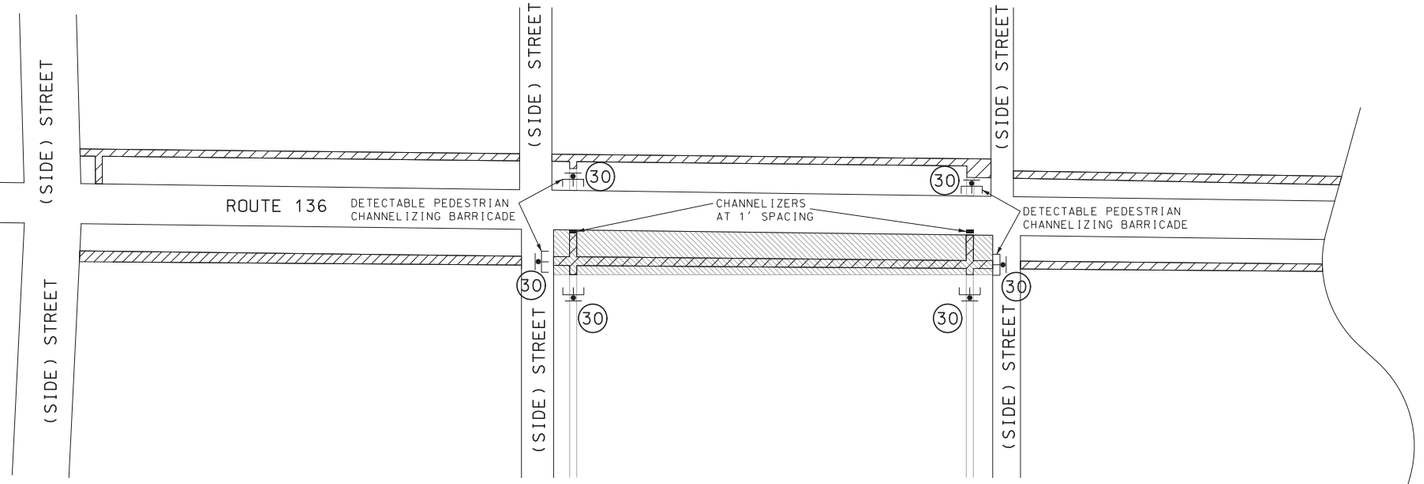
- SIGN (SINGLE SIDED)
- TYPE III MOVEABLE BARRICADE
- WORK AREA
- CHANNELIZER




INSTALL DETECTABLE PEDESTRIAN CHANNELIZING BARRICADES AND SIDEWALK CLOSED SIGNS AS DIRECTED BY THE ENGINEER.

WHERE CHANNELIZING DEVICES ARE USED TO CHANNELIZE PEDESTRIANS, THERE SHALL BE CONTINUOUS DETECTABLE BOTTOM AND TOP SURFACES TO BE DETECTABLE TO USERS OF LONG CANES.

**DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE**



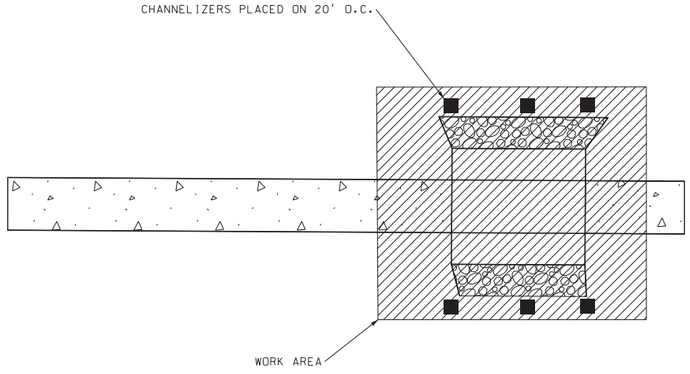
GENERAL NOTES:

1. QUANTITIES OF DEVICES FOR SIDEWALK CLOSURE WERE DETERMINED BY PROVIDING ENOUGH DEVICES TO CLOSE ONE BLOCK (ONE SIDE OF STREET) AT A TIME. EXAMPLE PROVIDED ABOVE DISPLAYS THE DESIRED LAYOUT OF PEDESTRIAN TRAFFIC CONTROL. AN ITERATION OF THIS LAYOUT SHALL BE PROVIDED AT EACH BLOCK WHILE UNDER CONSTRUCTION.
2. SIGN SHOULD BE PLACED AT NEAREST INTERSECTION STATING SIDEWALK CLOSED.
3. ALL SIGNS AND CHANNELIZERS MAY BE BE RELOCATED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

## SIDEWALK CLOSURE

NOT TO SCALE

## TRAFFIC CONTROL FOR ENTRANCE CONSTRUCTION




GENREAL NOTES

1. IF PROPERTY HAS MULTIPLE ENTRANCES, THE CONTRACTOR MAY CLOSE ONE ENTIRE ENTRANCE, UNLESS NOTED ON THE PLANS.
2. THE CONTRACTOR SHALL LIMIT THE WORK ZONE TO MINIMIZE IMPACT ACCESS TO THE BUSINESS.
3. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIALS IN THE TEMPORARY EASEMENTS DURING NON-WORKING HOURS.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO THE PROPERTY.
5. QUANTITIES ASSUME 4 ENTRANCES AT 20' WIDTH.

NOT TO SCALE

TRAFFIC CONTROL PLAN
SHEET 3 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 29 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

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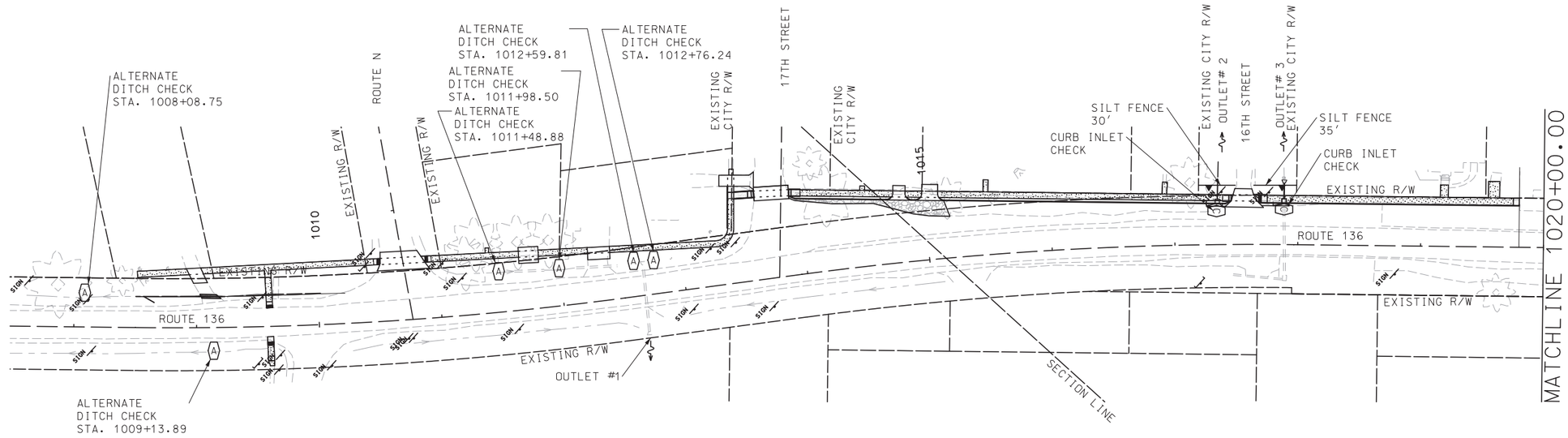
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

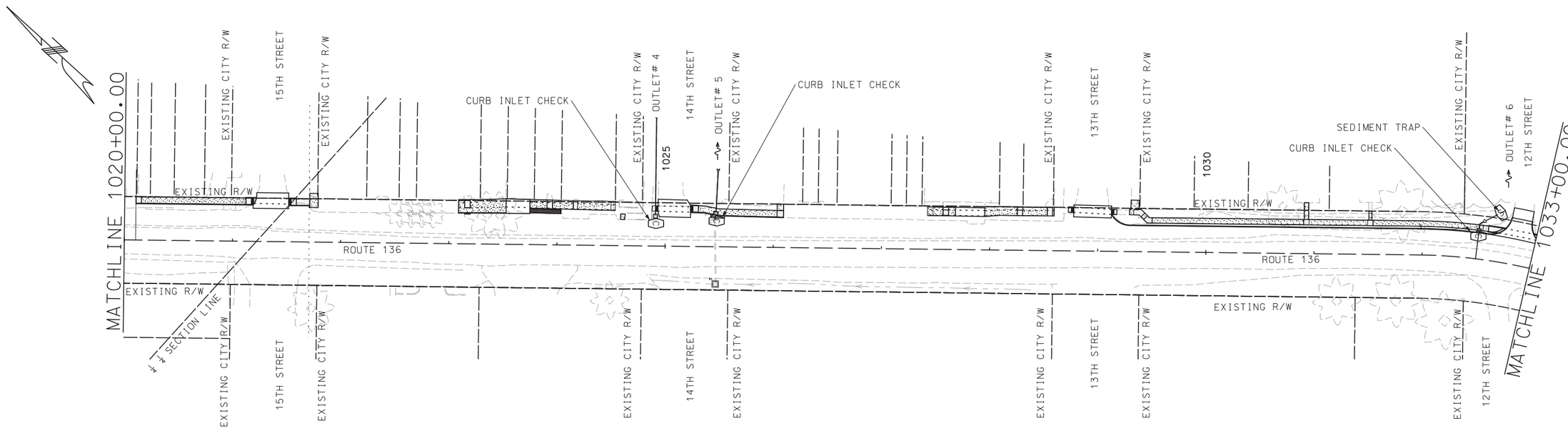



NOTES:
1. SEE STD PLAN 806.10 FOR TEMPORARY EROSION CONTROL DETAILS
2. CONTRACTOR TO PLACE SEED AND MULCH WITHIN 7 DAYS OF LINEAR GRADING.
3. EROSION CONTROL PLANS WERE DEVELOPED USING EXISTING VEGETATION WITHIN R/W AS A BMP. IF THE ENGINEER DETERMINES THE CONTRACTOR'S METHODS REQUIRE ADDITIONAL EROSION CONTROL MEASURES THE CONTRACTOR SHALL INSTALL THEM AT NO ADDITIONAL COST.
4. RECEIVING WATERS ARE TRIBUTARIES OF THE FABIUS RIVER.

TEMPORARY EROSION CONTROL LEGEND

- (C) CURB INLET CHECK
- (S) SEDIMENT TRAP
- (A) ALTERNATE DITCH CHECK
- SILT FENCE

SCALE
0 50 100 150




TEMPORARY EROSION CONTROL LEGEND

- (C) CURB INLET CHECK
- (S) SEDIMENT TRAP
- (A) ALTERNATE DITCH CHECK
- SILT FENCE

SCALE
0 50 100 150

EROSION CONTROL
SHEET 1 OF 2

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.
STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

DATE PREPARED 1/31/2020
ROUTE 136 | STATE MO
DISTRICT NE | SHEET NO. 30
COUNTY SCHUYLER
JOB NO. J2P3224
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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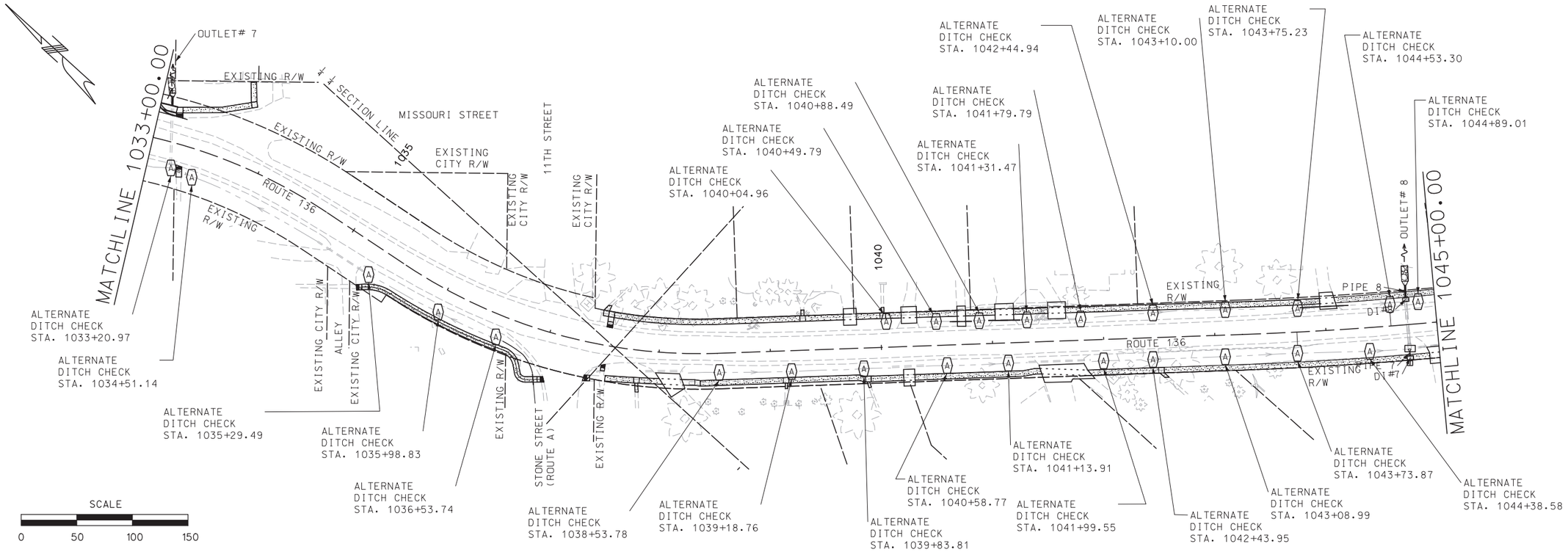


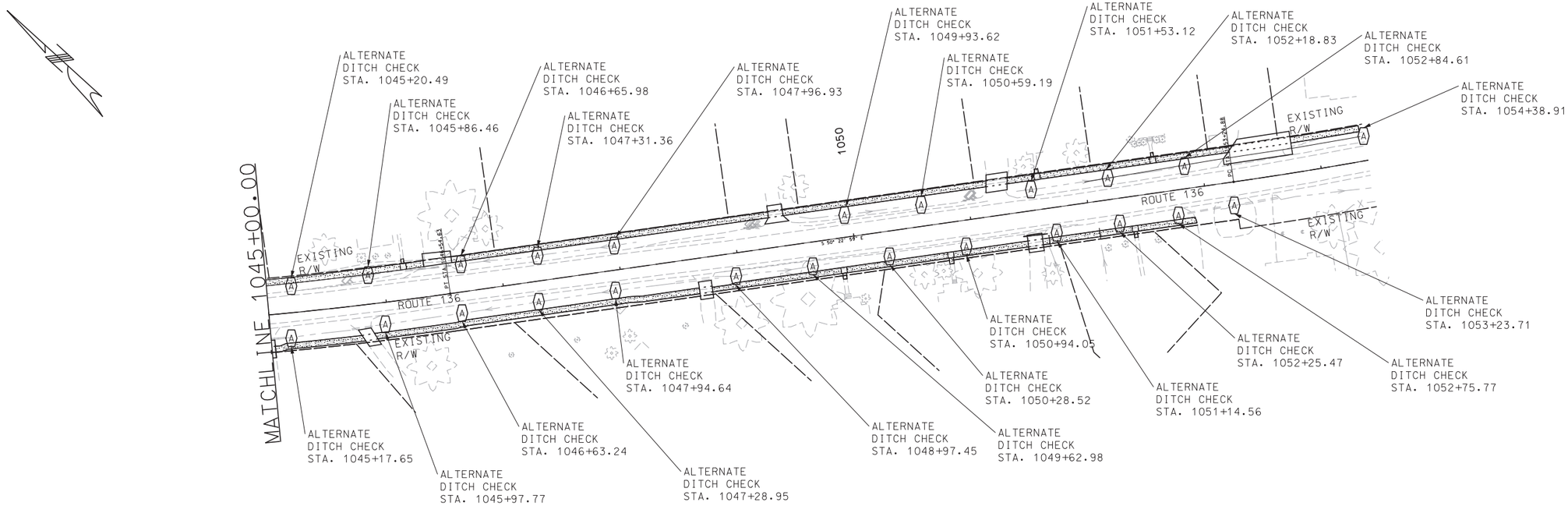


TEMPORARY EROSION CONTROL LEGEND

- (C) CURB INLET CHECK
- (A) ALTERNATE DITCH CHECK

EROSION CONTROL
SHEET 2 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 31 |

COUNTY SCHUYLER
JOB NO. J2P3224
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| NO. | DESCRIPTION | DATE |
|---|---|---|

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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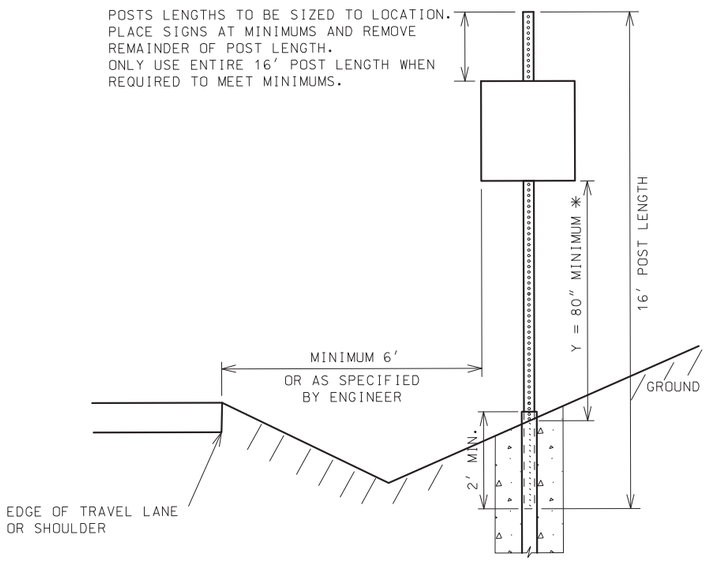
# MOUNTING HEIGHT DETAIL




* MINIMUM REQUIRED WHEN SIGNS ARE LOCATED ALONG AND WITHIN A PEDESTRIAN ROUTE. IN SITUATIONS WHERE THE SIGN IS NOT LOCATED WITHIN THE PEDESTRIAN ROUTE THE MINIMUM HEIGHT COULD BE REDUCED TO 5' IF 80" IS NOT ACHIEVABLE WITH A 16' POST.

POSTS – 12 GAUGE – 2.5" X 2.5"

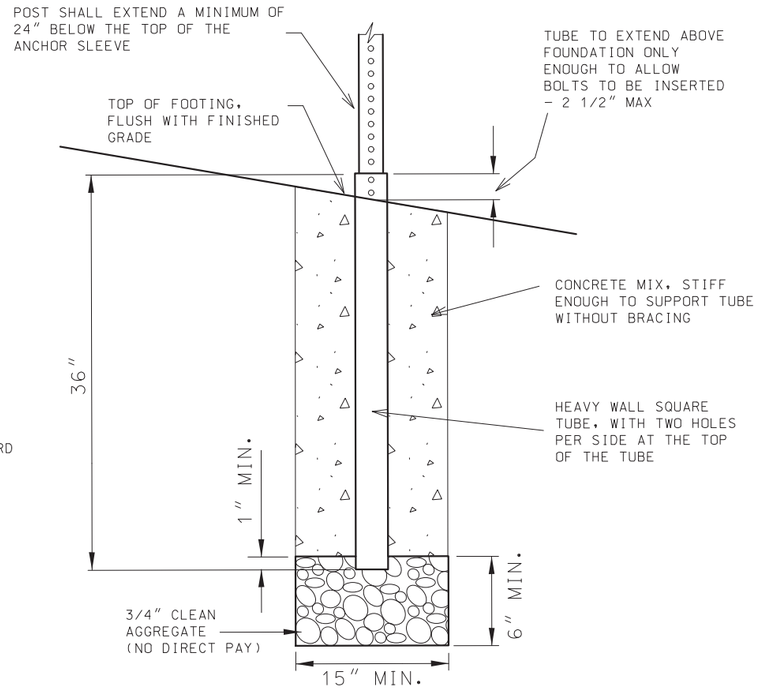
ANCHORS – 7 GAUGE – 3" X 3" O.D.

BREAKAWAY – CERTIFIED NCHRP 350 COMPLIANT
USE REQUIRED FOR DOUBLE POST
INSTALLATIONS ONLY

GALVANIZATION – ALL PSST POSTS, ANCHORS AND
BREAKAWAY CASTINGS SHALL BE
GALVANIZED PER MoDOT STANDARD
SPECIFICATIONS

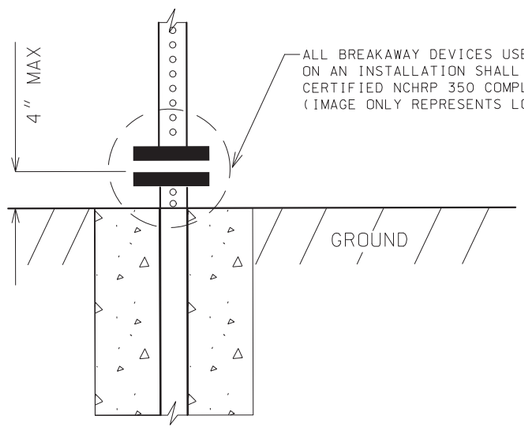
NOTE: PERFORATED SQUARE STEEL TUBE (PSST) POSTS ARE PAID AS 16 LINEAR FOOT, CONTRACTOR IS RESPONSIBLE TO PROPERLY PLACE SIGN AS SHOWN ABOVE IN "MOUNTING HEIGHT DETAIL"

# CONCRETE FOOTING DETAIL



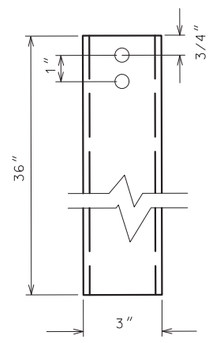

PSST CONCRETE FOOTINGS EMBEDDED PAID AS 3' LENGTH, 15" DIAMETER = 0.14 CUBIC YARDS
REQUIRED AGGREGATE CONSIDERED INCIDENTAL AND INCLUDED IN CONCRETE FOOTING

# BREAKAWAY DETAIL



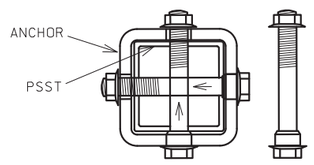

WHEN BREAKAWAY DEVICES ARE REQUIRED THE PORTION FIXED TO THE GROUND ANCHOR SHALL BE NO HIGHER THAN 4" ABOVE THE FINISHED GRADE

# 7 GAUGE ANCHOR FABRICATION DETAIL FOR 2.5" PSST




# ANCHOR BOLT DETAIL FOR 2.5" PSST

2 SHOULDER BOLTS REQUIRED
INSTALLED PERPENDICULAR TO EACH OTHER




3/8" X 3.5" SHOULDER BOLT AND NUT

SIGNING SHEET
SHEET 1 OF 2

ROBERT B. GREEN
NUMBER PE-25339
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 32 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE 12-01-2017

| SIGNS | | | | | | PIPE POST ✳ | | | | | STRUCTURAL STEEL | | | | | | | | | | | U CHANNEL POST | PERFORATED SQUARE STEEL TUBE POST | | | | | | | | | | | | | | FOOTINGS | | REMARKS AND OTHER REQUIRED ITEMS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 902 SIGNAL SIGNS TABULATED ON D-37A SHEET | | | | | | | | | | | POSTS ✳ | | | | | | BACKING BARS 2" X ⅜" BARS @ 2.55 LBS PER LIN FT | | | | TOTAL | | 2 IN | | | | | | | 2.5 IN | | | | | | BREAK-AWAY ASSEMBLY | EMBD | BOLT DOWN | |
| SIGN NO. | SIGN SIZE | STATION | HORZ CLEAR IF NOT STD | LOCATION | PLAN SHT. NO. | PIPE SIZE | POST NO.1 | POST NO.2 | LBS PER FT | TOTAL ITEM NO. 9031220 | POST DES NO. | POST NO.1 | POST NO.2 | POST NO.3 | LBS PER FT | TOTAL | NO. EACH | LGTH | TOTAL | TOTAL | ITEM NO. 9031210 | ITEM NO. 9031250 | POST NO.1 | POST NO.2 | TOTAL ITEM NO. 9031270A | ANCHOR 7 GA. ITEM NO. 9031273 | OMNI 7 GA. ITEM NO. 9031279 | ANCHOR 12 GA. ITEM NO. 9031271 | OMNI 12 GA. ITEM NO. 9031278 | POST NO.1 | POST NO.2 | TOTAL ITEM NO. 9031280 | 2.25" INSERT ITEM NO. 9031272 | ANCHOR 7 GA. ITEM NO. 9031281 | OMNI 7 GA. ITEM NO. 9031282 | ITEM NO. 9031241 | ITEM NO. 9031010 | ITEM NO. 9031020 | |
| | | | | | | IN. | LF | LF | | LBS | | LF | LF | LF | | LBS | | IN. | LF | LBS | LBS | LF | LF | LF | | | | | | | | | | | | EACH | CU YDS | CU YDS | |
| 1 | EX. SIGN | 1031+22.66 | | LEFT | 8 | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.14 | | USE EXISTING SIGNS |
| 2 | EX. SIGN | 1033+41.87 | | LEFT | 9 | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.14 | | USE EXISTING SIGNS |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 32 | | 32 | | 6 | | | 0.28 | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 32 | | 32 | | 6 | | | 0.3 | | |

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

## ROUND PIPE POST AND FOOTING DATA TABLE

| NOM. SIZE (IN.) | WEIGHT LBS/FT | WEIGHT LBS/IN | STUB LENGTH | FOOTING DIA. | FOOTING DEPTH | CONCRETE C.Y. |
|---|---|---|---|---|---|---|
| 2½ | 5.79 | 0.48 | 4'- 3½" | 12" | 4'-6" | 0.13 |
| 3 | 7.58 | 0.63 | 4'- 3½" | 12" | 4'-6" | 0.13 |
| 4 | 10.79 | 0.90 | 5'- 3½" | 18" | 5'-6" | 0.36 |

## POST AND FOOTING DATA TABLE

| POST DES. NO. | NOM. SIZE | POST WEIGHT LBS/FT | POST WEIGHT LBS/IN | STUB LENGTH | FOOTING DIA. | FOOTING LEVEL GROUND DEPTH | FOOTING LEVEL GROUND C.Y. | FOOTING 6:1 GRADE DEPTH | FOOTING 6:1 GRADE C.Y. | FOOTING 4:1 GRADE DEPTH | FOOTING 4:1 GRADE C.Y. | FOOTING 3:1 OR 2:1 GRADE DEPTH | FOOTING 3:1 OR 2:1 GRADE C.Y. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | W6 | 9.0 | 0.75 | 3'-0" | 15" | 3'-0" | 0.14 | 3'-2" | 0.15 | 3'-3" | 0.16 | 3'-6" | 0.17 |
| 2 | W6 | 15.0 | 1.25 | 4'-0" | 24" | 4'-0" | 0.47 | 4'-2" | 0.50 | 4'-3" | 0.51 | 4'-6" | 0.54 |
| 3 | W8 | 18.0 | 1.50 | 4'-6" | 28" | 4'-6" | 0.71 | 4'-8" | 0.73 | 4'-9" | 0.74 | 5'-0" | 0.78 |
| 4 | W10 | 22.0 | 1.83 | 5'-0" | 36" | 5'-0" | 1.31 | 5'-2" | 1.36 | 5'-3" | 1.39 | 5'-6" | 1.45 |
| 5 | W10 | 26.0 | 2.17 | 5'-0" | 36" | 5'-0" | 1.31 | 5'-3" | 1.37 | 5'-5" | 1.43 | 5'-9" | 1.52 |
| 6 | W12 | 35.0 | 2.92 | 5'-6" | 36" | 5'-6" | 1.44 | 5'-9" | 1.52 | 5'-11" | 1.56 | 6'-3" | 1.65 |

SIGNING SHEET
SHEET 2 OF 2

D-29

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 33 |

COUNTY SCHUYLER

JOB NO. J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

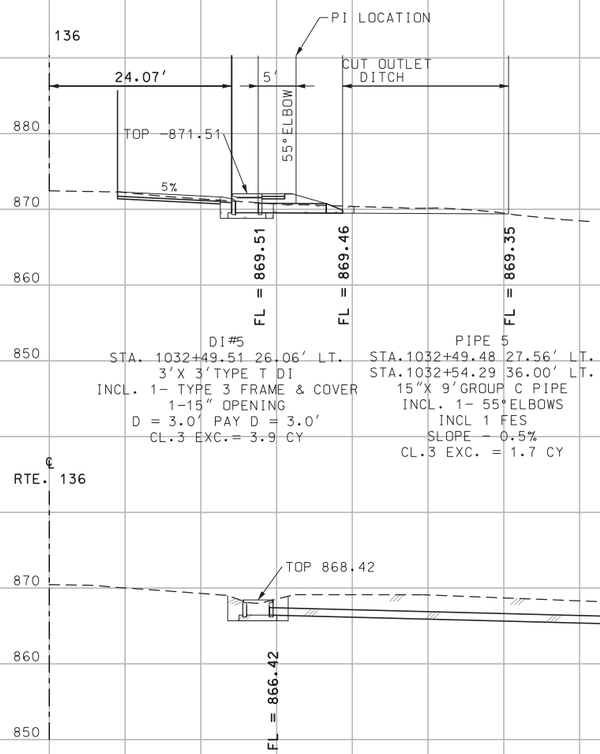
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

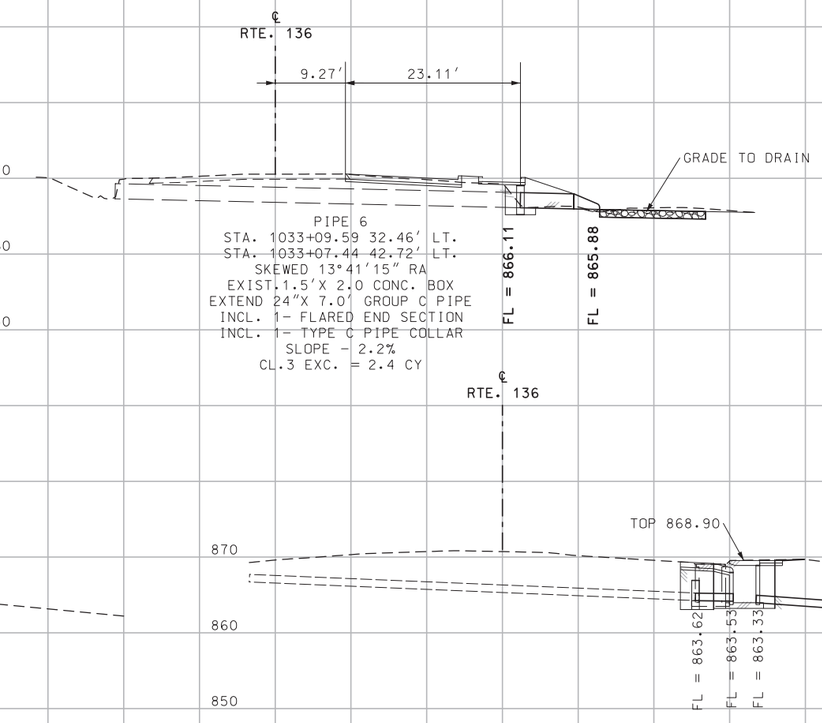
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

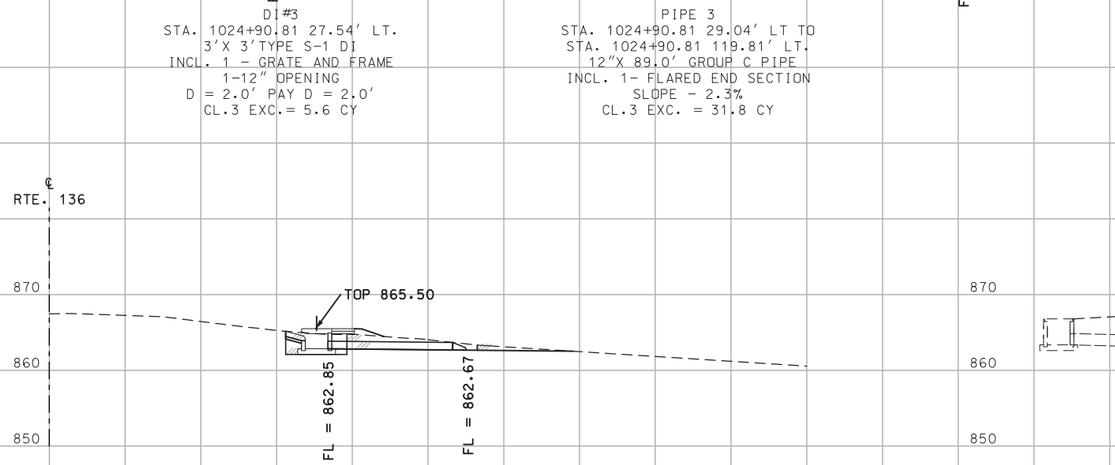



DI#5
STA. 1032+49.51 26.06' LT.
3'X 3'TYPE T DI
INCL. 1- TYPE 3 FRAME & COVER
1-15" OPENING
D = 3.0' PAY D = 3.0'
CL.3 EXC.= 3.9 CY

PIPE 5
STA.1032+49.48 27.56' LT.
STA.1032+54.29 36.00' LT.
15"X 9'GROUP C PIPE
INCL. 1- 55°ELBOWS
INCL 1 FES
SLOPE - 0.5%
CL.3 EXC. = 1.7 CY

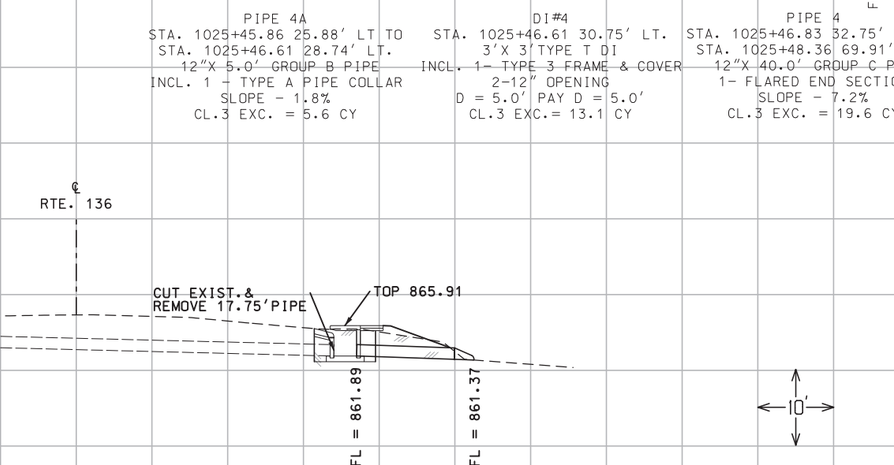



PIPE 6
STA. 1033+09.59 32.46' LT.
STA. 1033+07.44 42.72' LT.
SKEWED 13°41'15" RA
EXIST.1.5'X 2.0 CONC. BOX
EXTEND 24"X 7.0' GROUP C PIPE
INCL. 1- FLARED END SECTION
INCL. 1- TYPE C PIPE COLLAR
SLOPE - 2.2%
CL.3 EXC. = 2.4 CY




DI#3
STA. 1024+90.81 27.54' LT.
3'X 3'TYPE S-1 DI
INCL. 1 - GRATE AND FRAME
1-12" OPENING
D = 2.0' PAY D = 2.0'
CL.3 EXC.= 5.6 CY

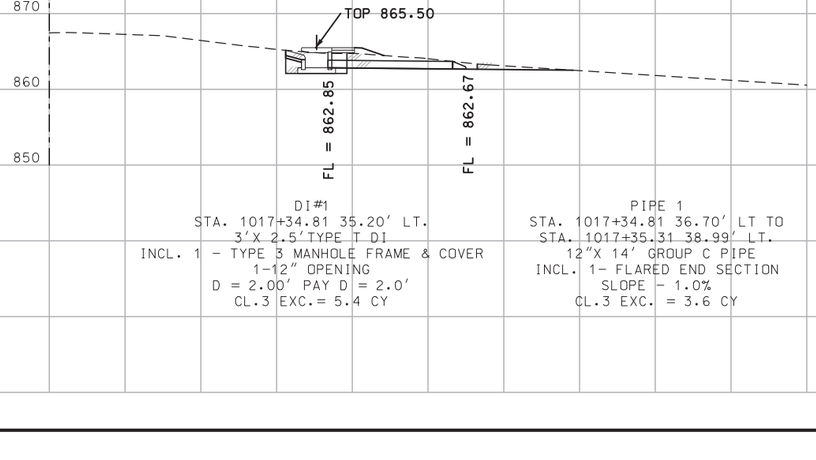
PIPE 3
STA. 1024+90.81 29.04' LT TO
STA. 1024+90.81 119.81' LT.
12"X 89.0' GROUP C PIPE
INCL. 1- FLARED END SECTION
SLOPE - 2.3%
CL.3 EXC. = 31.8 CY




PIPE 4A
STA. 1025+45.86 25.88' LT TO
STA. 1025+46.61 28.74' LT.
12"X 5.0' GROUP B PIPE
INCL. 1 - TYPE A PIPE COLLAR
SLOPE - 1.8%
CL.3 EXC. = 5.6 CY

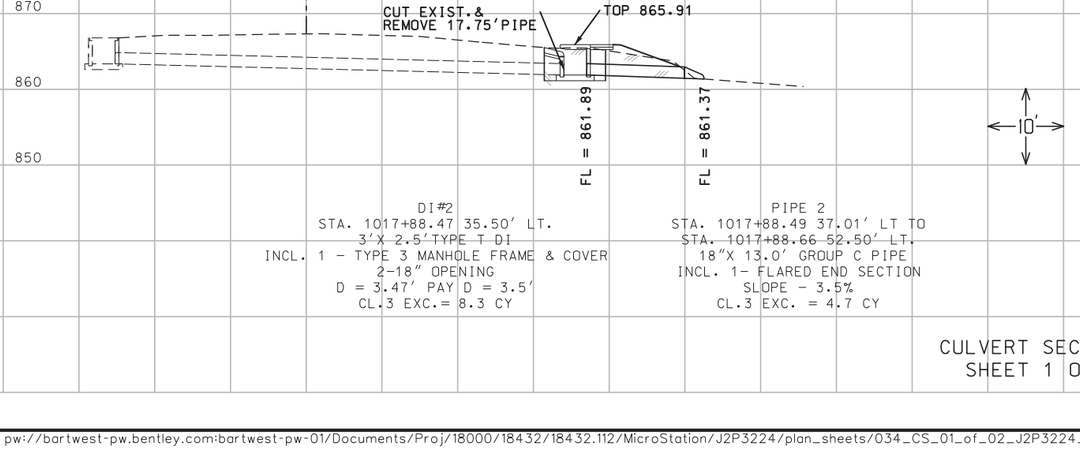
DI#4
STA. 1025+46.61 30.75' LT.
3'X 3'TYPE T DI
INCL. 1- TYPE 3 FRAME & COVER
2-12" OPENING
D = 5.0' PAY D = 5.0'
CL.3 EXC.= 13.1 CY

PIPE 4
STA. 1025+46.83 32.75' LT TO
STA. 1025+48.36 69.91' LT.
12"X 40.0' GROUP C PIPE
1- FLARED END SECTION
SLOPE - 7.2%
CL.3 EXC. = 19.6 CY




DI#1
STA. 1017+34.81 35.20' LT.
3'X 2.5'TYPE T DI
INCL. 1 - TYPE 3 MANHOLE FRAME & COVER
1-12" OPENING
D = 2.00' PAY D = 2.0'
CL.3 EXC.= 5.4 CY

PIPE 1
STA. 1017+34.81 36.70' LT TO
STA. 1017+35.31 38.99' LT.
12"X 14' GROUP C PIPE
INCL. 1- FLARED END SECTION
SLOPE - 1.0%
CL.3 EXC. = 3.6 CY




DI#2
STA. 1017+88.47 35.50' LT.
3'X 2.5'TYPE T DI
INCL. 1 - TYPE 3 MANHOLE FRAME & COVER
2-18" OPENING
D = 3.47' PAY D = 3.5'
CL.3 EXC.= 8.3 CY

PIPE 2
STA. 1017+88.49 37.01' LT TO
STA. 1017+88.66 52.50' LT.
18"X 13.0' GROUP C PIPE
INCL. 1- FLARED END SECTION
SLOPE - 3.5%
CL.3 EXC. = 4.7 CY

CULVERT SECTIONS
SHEET 1 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

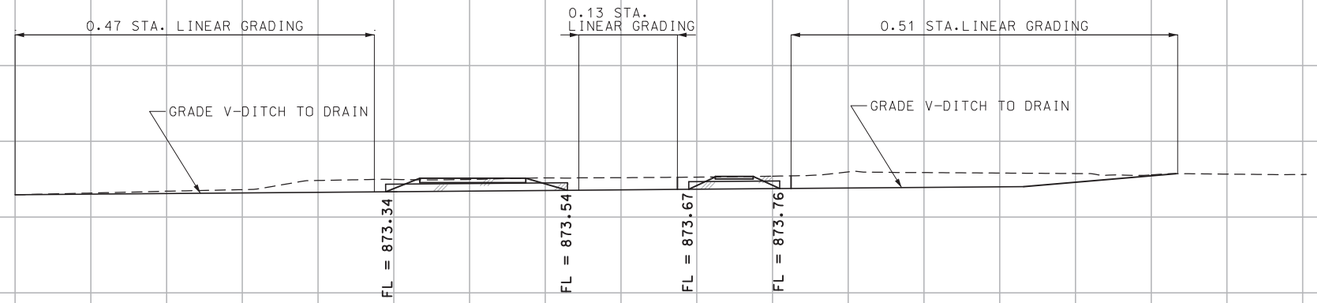
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED: 1/31/2020
ROUTE: 136 | STATE: MO
DISTRICT: NE | SHEET NO.: 34
COUNTY: SCHUYLER
JOB NO.: J2P3224
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

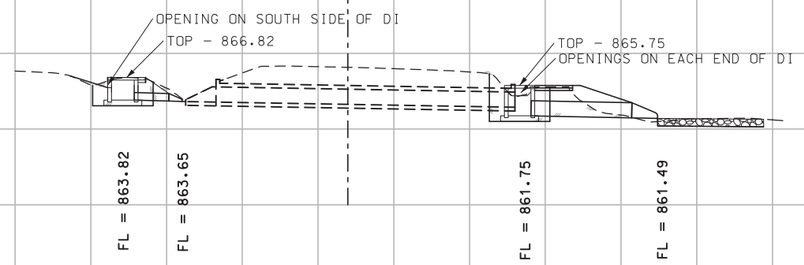
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




STA. 1009+00.55 25.59′ LT TO
STA. 1009+23.54 25.12′ LT.
12″X 24′ GROUP C PIPE
SLOPE – 0.8%
CL.3 EXC. = 6.3 CY

STA. 1009+53.55 25.96′ LT TO
STA. 1009+65.66 26.11′ LT.
12″X 12′ GROUP C PIPE
SLOPE – 0.75%
CL.3 EXC. = 3.6 CY

℄
RTE. 136

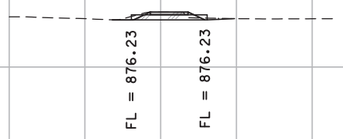



DI#7
STA.1044+73.67 29.97′ RT.
5′X 3′TYPE E DI WITH 1 OPENING
WITH PRECAST TOP
1– 12″ OPENING
D = 2.67′ PAY D = 2.7′
CL 3 EXC. = 9.2 CY

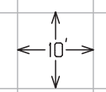
PIPE 7
STA.1044+73.67 28.20′ RT TO
STA. 1044+73.67 21.89′ RT
12″X 5.0′GROUP C PIPE
INCL 1 FES
SLOPE – 2.7%
CL.3 EXC. = 0.9 CY

DI#8
STA. 1044+73.90 22.62′ LT.
5′X 3′TYPE E DI WITH 2 OPENINGS
WITH PRECAST TOP
1– 1.5 X 2′RCB OPENING
1–24″ OPENING
D = 3.65′ PAY D = 3.7′
CL.3 EXC.= 11.7 CY

PIPE 8
STA. 1044+73.85 24.60′ LT TO
STA. 1044+74.59 38.99′ LT.
24″X 13′ GROUP C PIPE
INCL. 1– FLARED END SECTION
SLOPE – 2.0%
CL.3 EXC. = 3.6 CY




STA. 1036+95.79 40.30′ RT TO
STA. 1036+99.14 49.71′ RT.
8″X 10′ GROUP C PIPE
SLOPE – 0.0%
CL.3 EXC. = 1.1 CY




CULVERT SECTIONS
SHEET 2 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE–25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
1/31/2020

| ROUTE | STATE |
|---|---|
| 136 | MO |
| DISTRICT | SHEET NO. |
| NE | 35 |

COUNTY
SCHUYLER

JOB NO.
J2P3224

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
# PLANS FOR PROPOSED
# STATE HIGHWAY
# MACON COUNTY
## AMERICANS WITH DISABILITIES ACT (ADA) IMPROVEMENTS

### DESIGN DESIGNATION

A.A.D.T. - 2018 = 537
DESIGN YEAR - 2038 = 593
V = 35 M.P.H.

FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

### TEMPORARY CONSTRUCTION EASEMENTS

NO PERMANENT R/W

### UTILITY COMPANIES

MACON ELECTRIC COOPERATIVE
JOE IVY
JIVY@MACONELECTRIC.COM
PHONE: (660) 385-3157

CHARITON VALLEY TELEPHONE
JERRY GRAUEL
JGRAUEL@CHARITONVALLEY.COM
PHONE: (660) 395-9620

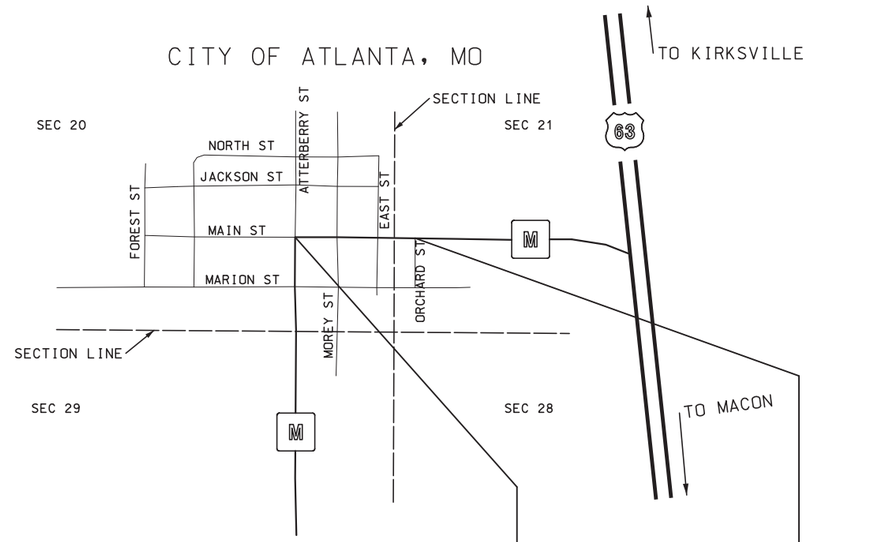
CITY OF ATLANTA
TOM ASKEW
CITYOFATLANTA@CVALLEY.NET
PHONE: (660) 239-4890

### CONVENTIONAL SYMBOLS
(USED IN PLANS)

| | EXISTING | NEW |
|---|---|---|
| BUILDINGS AND STRUCTURES | | |
| GUARD RAIL | | |
| GUARD CABLE | | |
| CONCRETE RIGHT-OF-WAY MARKER | | |
| STEEL RIGHT-OF-WAY MARKER | | |
| LOCATION SURVEY MARKER | | |
| UTILITIES | | |
| FIBER OPTICS | -FO- | ~~-FO-~~ |
| OVERHEAD CABLE TV | -OTV- | ~~-OTV-~~ |
| UNDERGROUND CABLE TV | -UTV- | ~~-UTV-~~ |
| OVERHEAD TELEPHONE | -OT- | ~~-OT-~~ |
| UNDERGROUND TELEPHONE | -UT- | ~~-UT-~~ |
| OVERHEAD POWER | -OE- | ~~-OE-~~ |
| UNDERGROUND POWER | -UE- | ~~-UE-~~ |
| SANITARY SEWER | -S- | ~~-S-~~ |
| STORM SEWER | -SS- | ~~-SS-~~ |
| GAS | -G- | ~~-G-~~ |
| WATER | -W- | ~~-W-~~ |
| MANHOLE | SAN | |
| FIRE HYDRANT | HYD | |
| WATER VALVE | WV | |
| WATER METER | WM | |
| DROP INLET | DI | |
| DITCH BLOCK | | |
| GROUND MOUNTED SIGN | SIGN | |
| LIGHT POLE | | |
| H-FRAME POWER POLE | | |
| TELEPHONE PEDESTAL | PED | |
| FENCE | | |
| CHAIN LINK | V | |
| WOVEN WIRE | X | |
| GATE POST | | |
| BENCHMARK | BM | |

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

LOCATION MAP
SHOWING LOCATION OF MACON COUNTY




NOT TO SCALE

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

### INDEX OF SHEETS


| DESCRIPTION | SHEET NUMBER |
|---|---|
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| TYPICAL SECTIONS (TS) (2 SHEETS) | 2 |
| QUANTITIES (QU) (3 SHEETS) | 3 |
| PLAN-PROFILE (PP) | 4-5 |
| REFERENCE POINTS (RP) | 6 |
| COORDINATE POINTS (CP) | 6 |
| TRAFFIC CONTROL (TC) | 7-9 |
| EROSION CONTROL SHEETS (EC) | 10 |
| SIGNING SHEETS (SN) | 11-12 |
| SPECIAL SHEETS (SS) | 13-18 |


### LENGTH OF PROJECT

| | | |
|---|---|---|
| BEGINNING OF PROJECT | STA. | 0 + 0.00 |
| END OF PROJECT | STA. | 9 + 73.99 |
| APPARENT LENGTH | 973.99 | FEET |
| EQUATIONS AND EXCEPTIONS: | NONE | |
| TOTAL CORRECTIONS | 0.0 | FEET |
| NET LENGTH OF PROJECT | 973.99 | FEET |
| STATE LENGTH | 0.184 | MILES |

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 12/5/2019
ROUTE: M | STATE: MO
DISTRICT: NE | SHEET NO.: 1
COUNTY: MACON
JOB NO.: J2S3221
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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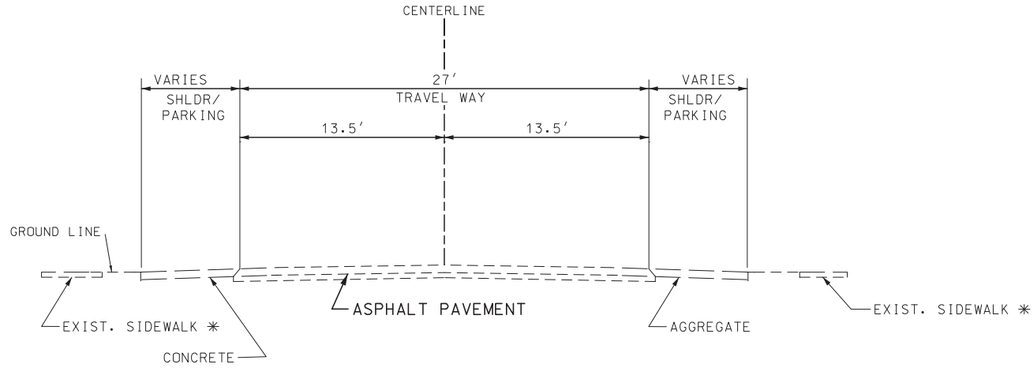
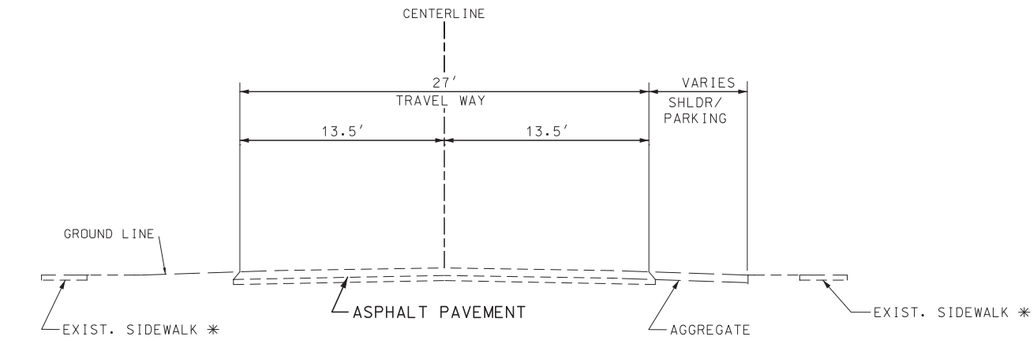
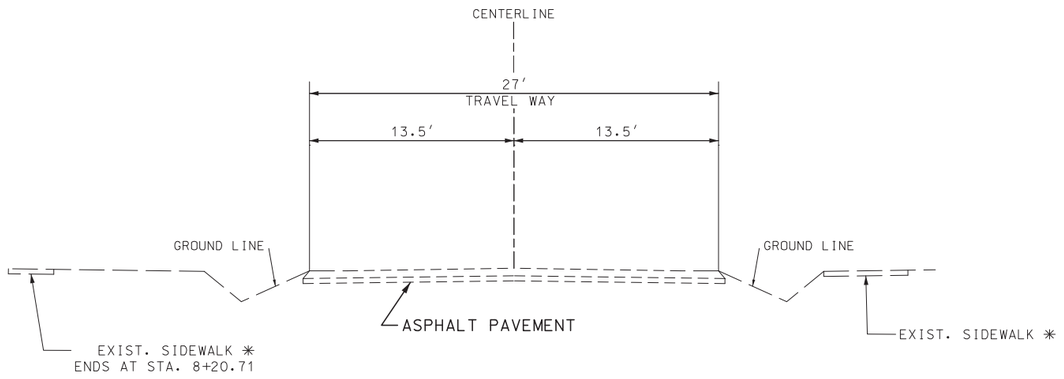



EXIST TYPICAL SECTION RTE. M
STA. 0+00.00 TO STA. 2+25.51

✳ - EXISTING SIDEWALK WIDTH AND LOCATION VARIES.




EXIST TYPICAL SECTION RTE. M
STA. 2+25.51 TO STA. 2+49.08




EXIST TYPICAL SECTION RTE. M
STA. 2+49.08 TO STA. 9+73.99

TYPICAL SECTIONS
SHEET 1 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/5/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 2 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

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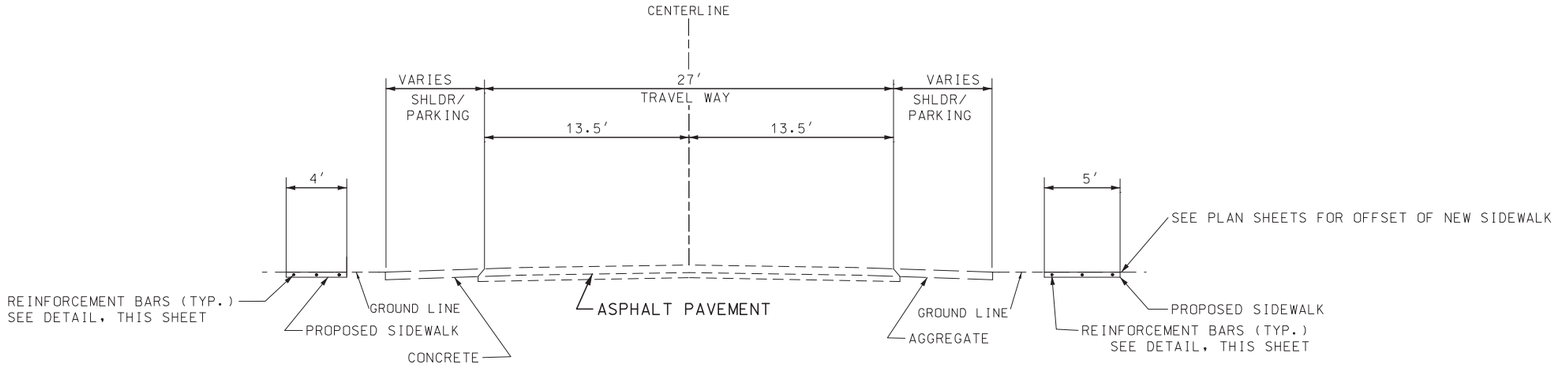
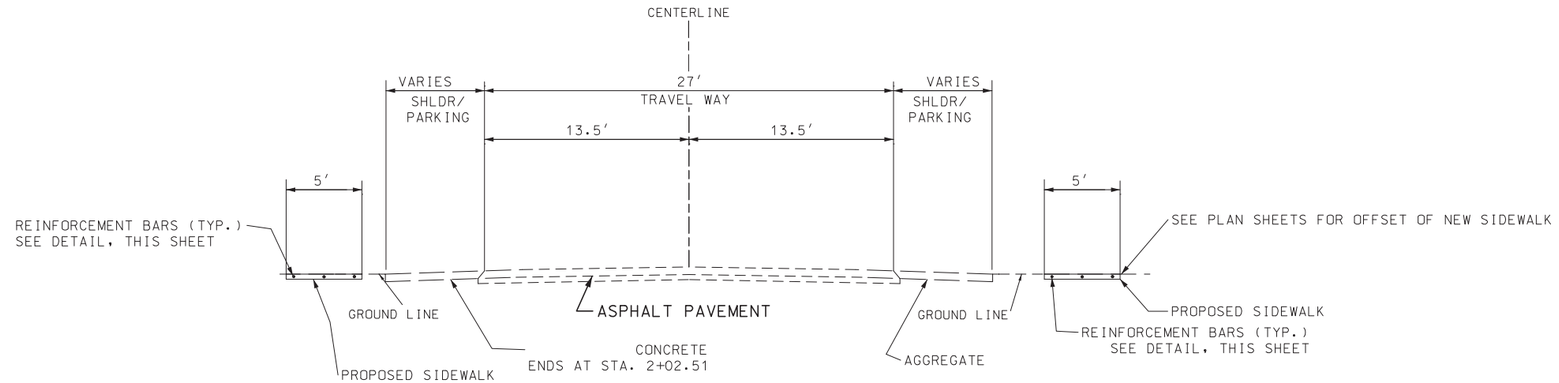
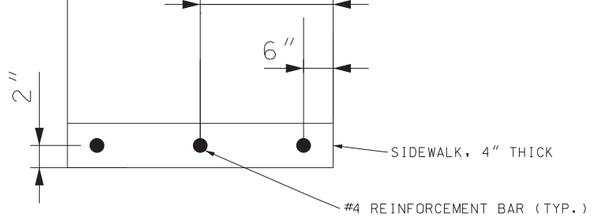
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




PROPOSED TYPICAL SECTION RTE. M
STA. 0+10.58 TO STA. 1+20.89




PROPOSED TYPICAL SECTION RTE. M
STA. 1+20.89 TO STA. 2+49.08

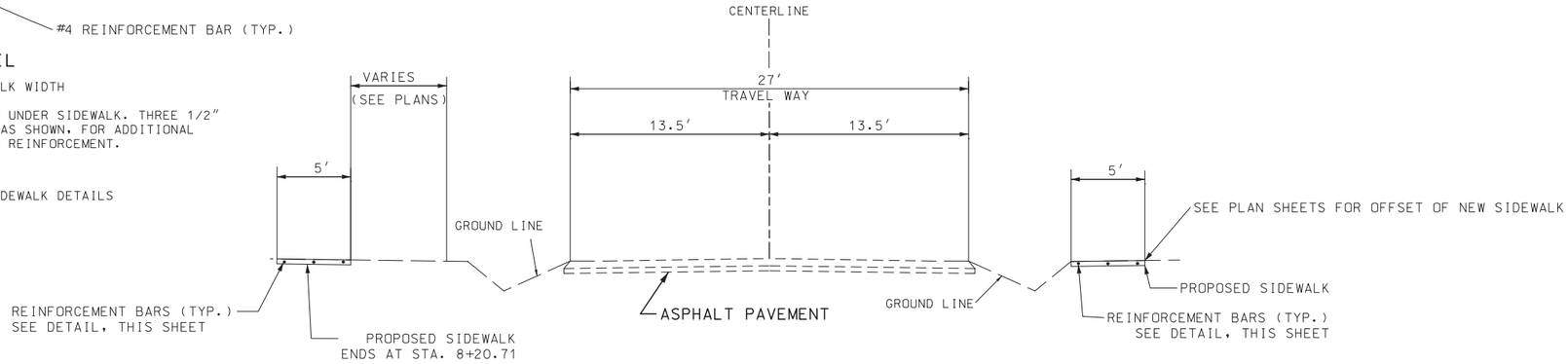



## SIDEWALK DETAIL

✳ SEE PLAN VIEW FOR SIDEWALK WIDTH

NO AGGREGATE BASE REQUIRED UNDER SIDEWALK. THREE 1/2" REBAR SHALL BE INSTALLED, AS SHOWN, FOR ADDITIONAL SUPPORT. NO DIRECT PAY FOR REINFORCEMENT.

NOTE:
SEE STANDARD 608.10 FOR SIDEWALK DETAILS




PROPOSED TYPICAL SECTION RTE. M
STA. 2+49.08 TO STA. 9+73.99

TYPICAL SECTIONS
SHEET 2 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 12/5/2019
ROUTE: M | STATE: MO
DISTRICT: NE | SHEET NO.: 2
COUNTY: MACON
JOB NO.: J2S3221
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## REMOVAL OF IMPROVEMENTS

| ROUTE | STA. | STA. | LOCATION | DESCRIPTION | QUANTITY | UNITS | REMARKS |
|---|---|---|---|---|---|---|---|
| M | 0+10.58 | 1+20.85 | LT | SIDEWALK | 61.7 | SY | |
| M | 0+10.58 | 0+25.90 | LT | SAWCUT | 59.4 | LF | |
| M | 0+11.22 | | RT | TRUNCATED DOMES | 9.6 | SF | EXISTING TRUNCATED DOMES |
| M | 0+34.05 | 0+34.05 | RT | SAWCUT | 3.9 | LF | |
| M | 0+34.05 | 0+61.04 | RT | SIDEWALK | 63.8 | SY | |
| M | 0+67.71 | 0+73.29 | LT | SAWCUT | 5.6 | LF | |
| M | 1+21.45 | 01+44.17 | LT | SAWCUT | 44.1 | LF | |
| M | 1+32.60 | | LT | PAVED APPROACH | 24.4 | SY | |
| M | 1+44.74 | 1+58.25 | LT | SIDEWALK | 5.9 | SY | |
| M | 1+58.24 | 1+68.74 | LT | SAWCUT | 20.9 | LF | |
| M | 1+63.91 | | LT | PAVED APPROACH | 5.8 | SY | |
| M | 1+67.38 | | RT | PAVED APPROACH | 7.0 | SY | |
| M | 1+68.75 | 1+79.59 | LT | SIDEWALK | 4.8 | SY | |
| M | 1+73.72 | 2+29.74 | RT | SIDEWALK | 22.4 | SY | |
| M | 1+79.59 | 2+00.08 | LT | SAWCUT | 40.9 | LF | |
| M | 1+89.85 | | LT | PAVED APPROACH | 11.4 | SY | |
| M | 2+00.10 | 3+10.60 | LT | SIDEWALK | 46.0 | SY | |
| M | 2+04.97 | 2+04.97 | RT | SAWCUT | 1.0 | LF | REMOVE PORTION OF R/R TIE |
| M | 2+29.94 | 2+45.28 | RT | SAWCUT | 15.3 | LF | |
| M | 2+37.44 | | RT | PAVED APPROACH | 22.8 | SY | |
| M | 2+45.14 | 3+20.41 | RT | SIDEWALK | 33.6 | SY | |
| M | 3+15.04 | 3+15.04 | RT | REMOVE PIPE | 5.4 | LF | |
| M | 3+19.32 | 3+42.04 | LT | SAWCUT | 41.0 | LF | |
| M | 3+21.51 | 3+44.09 | RT | SAWCUT | 40.4 | LF | |
| M | 3+30.68 | | LT | PAVED APPROACH | 32.8 | SY | |
| M | 3+32.80 | | RT | PAVED APPROACH | 23.8 | SY | |
| M | 3+44.08 | 4+88.84 | RT | SIDEWALK | 63.8 | SY | |
| M | 3+49.53 | 4+85.18 | LT | SIDEWALK | 67.5 | SY | |
| M | 4+93.97 | | LT | PAVED APPROACH | 8.3 | SY | |
| M | 4+95.69 | | RT | PAVED APPROACH | 5.6 | SY | |
| M | 5+03.99 | 6+49.42 | RT | SIDEWALK | 55.0 | SY | |
| M | 5+04.03 | 5+21.15 | LT | SIDEWALK | 6.2 | SY | |
| M | 5+30.36 | | LT | PAVED APPROACH | 21.3 | SY | |
| M | 5+39.56 | 6+48.37 | LT | SIDEWALK | 52.4 | SY | |
| M | 6+30.54 | 6+41.84 | LT | REMOVE PIPE | 11.6 | LF | |
| M | 6+43.37 | 6+43.37 | LT | REMOVE PIPE | 21.6 | LF | |
| M | 6+43.37 | 6+43.37 | LT | REMOVE END STRUCTURE | 1.0 | EA | CULVERT END STRUCTURE |
| M | 6+51.42 | 6+67.18 | LT | SAWCUT | 29.7 | LF | |
| M | 6+53.32 | 6+72.84 | RT | SAWCUT | 35.1 | LF | |
| M | 6+59.30 | 6+59.30 | LT | PAVED APPROACH | 17.9 | SY | |
| M | 6+63.08 | 6+63.08 | RT | PAVED APPROACH | 20.6 | SY | |
| M | 6+67.19 | 8+20.71 | LT | SIDEWALK | 26.6 | SY | |
| M | 6+72.86 | 8+69.46 | RT | SIDEWALK | 70.8 | SY | |
| M | 7+67.00 | | RT | CONC. FOOTING | 10.8 | SY | THICKNESS UNKNOWN |
| M | 8+78.62 | | RT | PAVED APPROACH | 6.6 | SY | |
| M | 8+89.00 | 9+73.99 | RT | SIDEWALK | 34.4 | SY | |
| | | | TOTAL | 1 LUMP SUM | | | |

*ALL SAWCUTS ARE FULL DEPTH UNLESS AUTHORIZED BY THE ENGINEER

## 7" GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C)

| ROUTE | STA. | LOCATION | SY | REMARKS |
|---|---|---|---|---|
| M | 1+67.42 | RT | 8.9 | |
| M | 2+37.59 | RT | 4.2 | |
| M | 4+93.97 | LT | 10.4 | |
| M | 4+95.74 | RT | 7.3 | |
| M | 8+78.46 | RT | 7.8 | |
| | | TOTAL | 39 | |
| | | PAY TOTAL | 39 | |

## ADJUST MANHOLES, INLETS, AND VALVES

| ROUTE | STA. | LOCATION | EA | REMARKS |
|---|---|---|---|---|
| M | 4+62.68 | RT | 1 | RELOCATE GUY WIRE |
| M | 5+06.72 | RT | 1 | RELOCATE RISER |
| M | 6+43.97 | LT | 1 | ADJUST GAS METER |
| M | 8+26.52 | RT | 1 | RELOCATE POWER POLE |
| M | 8+30.80 | RT | 1 | RELOCATE RISER |
| | | TOTAL | 1 LUMP SUM | |

## MOBILIZATION

TOTAL = 1 LUMP SUM

## CONTRACTOR FURNISHED SURVEYING AND STAKING

TOTAL = 1 LUMP SUM

## ADDITIONAL MOBILIZATION FOR SEEDING

TOTAL = 4 EACH

## REINFORCED PCC SIDEWALK

| ROUTE | STA. | STA. | LOCATION | CONCRETE SIDEWALK, 4 IN. THICK | REMARKS |
|---|---|---|---|---|---|
| | | | | SY | |
| M | 0+20.41 | 1+20.81 | LT | 50.7 | |
| M | 0+34.05 | 1+61.04 | RT | 79.8 | |
| M | 1+43.36 | 1+58.24 | LT | 7.6 | |
| M | 1+68.74 | 1+79.59 | LT | 6.0 | |
| M | 1+73.72 | 2+29.74 | RT | 31.1 | |
| M | 2+00.10 | 3+14.25 | LT | 63.4 | |
| M | 2+41.57 | 3+16.51 | RT | 45.6 | |
| M | 3+46.90 | 4+86.42 | LT | 77.5 | |
| M | 3+49.08 | 4+90.59 | RT | 84.7 | |
| M | 5+00.78 | 6+48.33 | RT | 91.2 | |
| M | 5+01.52 | 5+21.45 | LT | 11.2 | |
| M | 5+39.02 | 6+46.42 | LT | 67.3 | |
| M | 6+92.90 | 8+20.71 | LT | 71.0 | |
| M | 6+77.86 | 8+10.57 | RT | 73.7 | |
| M | 8+25.14 | 8+72.80 | RT | 26.5 | |
| M | 8+84.62 | 9+68.02 | RT | 55.3 | |
| | | TOTAL | | 842.6 | |
| | | PAY TOTAL | | 842.6 | |

## CURB RAMP

| ROUTE | STA. | LOCATION | CURB RAMP | REMARKS |
|---|---|---|---|---|
| | | | SY | |
| M | 0+15.83 | LT | 5.3 | |
| M | 0+23.34 | LT | 8.1 | |
| M | 0+18.56 | LT | 3.1 | |
| M | 3+19.27 | RT | 3.3 | |
| M | 3+41.82 | LT | 3.7 | |
| M | 3+46.19 | RT | 3.6 | |
| M | 3+57.22 | LT | 11.3 | |
| M | 3+57.84 | RT | 9.2 | |
| M | 6+36.88 | LT | 6.3 | |
| M | 6+37.11 | RT | 3.3 | |
| M | 6+49.42 | LT | 2.8 | |
| M | 6+51.30 | RT | 2.8 | |
| M | 6+82.04 | LT | 19.6 | POUR 7" THICK WITH RUNNING SLOPE LESS THAN 5% |
| M | 6+74.88 | RT | 2.8 | |
| M | 9+58.52 | RT | 3.6 | |
| M | 9+71.06 | RT | 3.1 | |
| | | TOTALS | 91.9 | |
| | | PAY TOTAL | 91.9 | |

## TRUNCATED DOMES

| ROUTE | STA. | LOCATION | SQ FT | REMARKS |
|---|---|---|---|---|
| M | 0+11.22 | RT | 10.0 | INSTALL ON EXISTING RAMP |
| M | 0+12.26 | LT | 10.0 | |
| M | 0+23.29 | LT | 10.0 | |
| M | 3+18.56 | LT | 10.0 | |
| M | 3+21.04 | RT | 10.0 | |
| M | 3+41.82 | LT | 10.0 | |
| M | 3+44.30 | RT | 10.0 | |
| M | 3+57.33 | LT | 10.0 | |
| M | 3+57.80 | RT | 10.0 | |
| M | 6+36.88 | LT | 10.0 | |
| M | 6+37.12 | RT | 10.0 | |
| M | 6+50.42 | LT | 10.0 | |
| M | 6+52.32 | RT | 10.0 | |
| M | 6+68.19 | LT | 10.0 | |
| M | 6+73.88 | RT | 10.0 | |
| M | 9+58.50 | RT | 10.0 | |
| M | 9+72.06 | RT | 10.0 | |
| | TOTAL | | 170.0 | |
| | PAY TOTAL | | 170.0 | |

DOMES INSTALLED ON EXISTING SURFACES SHALL BE FASTENED WITH GLUE AND SCREWS

QUANTITY SHEET
SHEET 1 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/6/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 3 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

## SIDE STREETS

| ROUTE | STA. | LOCATION | TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) | PAVED APPROACH 8 IN. | REMARKS |
|---|---|---|---|---|---|
| | | | SY | SY | |
| M | 3+30.46 | LT | 34.2 | 34.2 | MOREY STREET |
| M | 3+32.77 | RT | 24.7 | 24.7 | MOREY STREET |
| M | 6+59.30 | LT | 24.2 | 24.2 | EAST STREET |
| M | 6+63.12 | RT | 23.9 | 23.9 | EAST STREET |
| | | SUBTOTALS | 107.0 | 107.0 | |
| | | PAY TOTALS | 107 | 107.0 | |

## PRIVATE APPROACHES

| ROUTE | STA. | LOCATION | TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) | PAVED APPROACH 7 IN. | REMARKS |
|---|---|---|---|---|---|
| | | | SY | SY | |
| M | 1+67.42 | RT | 15.5 | 15.5 | |
| M | 2+37.59 | RT | 21.3 | 21.3 | |
| M | 4+93.97 | LT | 18.5 | 18.5 | |
| M | 4+95.74 | RT | 12.4 | 12.4 | |
| M | 5+30.36 | LT | 21.4 | 21.4 | |
| M | 8+14.89 | RT | 8.1 | 8.1 | |
| M | 8+78.46 | RT | 14.7 | 14.7 | |
| | | TOTALS | 111.9 | 111.9 | |
| | | PAY TOTALS | 112 | 111.9 | |

## COMMERCIAL DRIVES

| ROUTE | STA. | LOCATION | TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) | PAVED APPROACH, 8 IN. | REMARKS |
|---|---|---|---|---|---|
| | | | SY | SY | |
| M | 1+32.17 | LT | 24.4 | 24.4 | |
| M | 1+63.91 | LT | 5.8 | 5.8 | |
| M | 1+89.77 | LT | 11.4 | 11.4 | |
| | | TOTALS | 41.6 | 41.6 | |
| | | PAY TOTALS | 42 | 41.6 | |

## LINEAR GRADING CLASS 1

| ROUTE | STA. | STA. | LOCATION | STA | REMARKS |
|---|---|---|---|---|---|
| M | 0+25.34 | 3+19.23 | LT | 2.3 | BEGIN PROJECT TO MOREY ST. |
| M | 0+34.05 | 3+21.52 | RT | 2.5 | BEGIN PROJECT TO MOREY ST. |
| M | 3+41.97 | 6+51.42 | LT | 3.1 | MOREY ST. TO EAST ST. |
| M | 3+43.00 | 6+52.00 | RT | 3.4 | MOREY ST. TO EAST ST. |
| M | 6+67.18 | 8+20.71 | LT | 1.5 | EAST ST. TO END OF PROJECT |
| M | 6+72.85 | 9+73.06 | RT | 3.1 | EAST ST. TO END OF PROJECT |
| | | TOTAL | | 15.9 | |
| | | PAY TOTAL | | 15.9 | |

## TREE REMOVAL / TRIM

| ROUTE | STA. | LOCATION | EA | REMARKS |
|---|---|---|---|---|
| M | 7+22.47 | LT | 1 | TRIM |
| M | 7+37.44 | LT | 1 | TRIM |
| M | 7+53.14 | LT | 1 | REMOVE |
| | | TOTAL | 1 LUMP SUM | |

## TEMPORARY EROSION CONTROL

| ROUTE | STA | LOCATION | SILT FENCE | ALTERNATE DITCH CHECKS | SEDIMENT REMOVAL | REMARKS |
|---|---|---|---|---|---|---|
| | | | LF | LF | CY | |
| M | 00+32.43 | LT | 27 | | 0.3 | |
| M | 00+33.17 | RT | 28 | | 0.3 | |
| M | 2+95.90 | RT | | 10 | 1 | |
| M | 2+99.24 | LT | | 10 | 1 | |
| M | 3+15.20 | RT | | 10 | 1 | |
| M | 3+51.53 | RT | 18 | | 0.2 | |
| M | 3+51.60 | LT | 20 | | 0.2 | |
| M | 4+00.55 | LT | 117 | | 1.2 | |
| M | 4+24.59 | RT | | 10 | 1 | |
| M | 4+24.67 | LT | | 10 | 1 | |
| M | 4+71.51 | LT | | 10 | 1 | |
| M | 4+75.55 | LT | 22 | | 0.2 | |
| M | 4+79.88 | RT | | 10 | 1 | |
| M | 5+11.32 | LT | 20 | | 0.2 | |
| M | 5+12.97 | LT | 35 | | 0.4 | |
| M | 5+65.65 | LT | 52 | | 0.5 | |
| M | 6+23.05 | LT | | 10 | 1 | |
| M | 6+24.45 | LT | 55 | | 0.6 | |
| M | 6+25.60 | RT | | 10 | 1 | |
| M | 6+43.52 | RT | 20 | | 0.2 | |
| M | 6+43.96 | LT | 34 | | 0.3 | |
| M | 7+39.70 | LT | | 10 | 1 | |
| M | 7+42.98 | RT | | 10 | 1 | |
| M | 8+04.03 | RT | | 10 | 1 | |
| M | 8+10.68 | LT | | 10 | 1 | |
| M | 8+56.59 | LT | | 10 | 1 | |
| M | 8+63.81 | RT | | 10 | 1 | |
| M | 9+44.88 | RT | | 10 | 1 | |
| M | 9+64.85 | LF | 19 | | 0.2 | |
| M | 9+65.94 | RT | | 10 | 1 | |
| | | TOTALS | 467 | 170 | 21.8 | |
| | | USE | 467 | 170 | 22 | |

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK AND 1 CY PER 100 LF OF SILT FENCE

## SEEDING - COOL SEASON MIXTURE

| ROUTE | STA. | STA. | LOCATION | TURF TYPE FESCUE SEED | REMARKS |
|---|---|---|---|---|---|
| | | | | SY | |
| M | 0+25.34 | 3+19.23 | LT | 136.9 | BEGIN PROJECT TO MOREY ST. |
| M | 0+34.05 | 3+21.52 | RT | 150.3 | BEGIN PROJECT TO MOREY ST. |
| M | 3+41.97 | 6+51.42 | LT | 183.6 | MOREY ST. TO EAST ST. |
| M | 3+43.00 | 6+52.00 | RT | 174.1 | MOREY ST. TO EAST ST. |
| M | 6+67.18 | 8+20.71 | LT | 94.3 | EAST ST. TO END OF PROJECT |
| M | 6+72.85 | 9+73.06 | RT | 185.1 | EAST ST. TO END OF PROJECT |
| | | | TOTAL | 924.3 | |
| | | | PAY TOTAL | 1 LUMP SUM | |

## PIPE & PIPE COLLAR

| ROUTE | STA. | LOCATION | 12" GROUP C PIPE | 15" GROUP C PIPE | REMARKS |
|---|---|---|---|---|---|
| | | | LF | LF | |
| M | 3+15.04 | RT | 10.0 | | |
| M | 6+30.68 | LT | | 14.0 | |
| M | 6+43.39 | LT | | 9.0 | INCLUDES 15" COUPLING BAND |
| | | TOTALS | 10.0 | 23.0 | |
| | | PAY TOTALS | 10 | 23 | |

NO DIRECT PAY FOR CLASS 3 EXCAVATION OR BACKFILL. COST SHALL BE CONSIDERED INCIDENTAL TO AND COMPLETELY COVERED BY OTHER ITEMS IN THE CONTRACT.

QUANTITY SHEET
SHEET 2 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/6/2019

| ROUTE | STATE |
|---|---|
| M | MO |

| DISTRICT | SHEET NO. |
|---|---|
| NE | 3 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE: 10-01-2019

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL AREA SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| WARNING SIGNS | | | | | | | | |
| W01-1L | 48X48 | 16.00 | | | | | | TURN (SYMBOL LEFT ARROW) |
| W01-1R | 48X48 | 16.00 | | | | | | TURN (SYMBOL RIGHT ARROW) |
| W01-2L | 48X48 | 16.00 | | | | | | CURVE (SYMBOL LEFT ARROW) |
| W01-2R | 48X48 | 16.00 | | | | | | CURVE (SYMBOL RIGHT ARROW) |
| W01-3L | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL LEFT ARROW) |
| W01-3R | 48X48 | 16.00 | | | | | | REVERSE TURN (SYMBOL RIGHT ARROW) |
| W01-4L | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL LEFT ARROW) |
| W01-4R | 48X48 | 16.00 | | | | | | REVERSE CURVE (SYMBOL RIGHT ARROW) |
| W01-4bL | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4bR | 48X48 | 16.00 | | | | | | DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-4cL | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) |
| W01-4cR | 48X48 | 16.00 | | | | | | TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS) |
| W01-6 | 60X30 | 12.50 | | | | | | HORIZONTAL ARROW (SYMBOL) |
| W01-6a | 72X36 | 18.00 | | | | | | HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE) |
| W01-7 | 60X30 | 12.50 | | | | | | DOUBLE HEAD HORIZONTAL ARROW (SYMBOL) |
| W01-7a | 72X36 | 18.00 | | | | | | DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.) |
| W01-8 | 18X24 | 3.00 | | | | | | CHEVRON (SYMBOL) |
| W01-8a | 30X36 | 7.50 | | | | | | CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) |
| W03-1 | 48X48 | 16.00 | | | | | | STOP AHEAD (SYMBOL) |
| W03-2 | 48X48 | 16.00 | | | | | | YIELD AHEAD (SYMBOL) |
| W03-3 | 48X48 | 16.00 | | | | | | SIGNAL AHEAD (SYMBOL) |
| W03-4 | 48X48 | 16.00 | | | | | | BE PREPARED TO STOP |
| W03-5 | 48X48 | 16.00 | | | | | | SPEED LIMIT AHEAD |
| W04-1L | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM LEFT) |
| W04-1R | 48X48 | 16.00 | | | | | | MERGE (SYMBOL FROM RIGHT) |
| W04-1aL | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W04-1aR | 48X48 | 16.00 | | | | | | MERGE (ARROW SYMBOL) |
| W05-1 | 48X48 | 16.00 | | | | | | ROAD/BRIDGE/RAMP NARROWS |
| W05-3 | 48X48 | 16.00 | | | | | | ONE LANE BRIDGE |
| W05-5 | 48X48 | 16.00 | | | | | | NARROW LANES |
| W06-1 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY (SYMBOL) |
| W06-2 | 48X48 | 16.00 | | | | | | DIVIDED HIGHWAY END (SYMBOL) |
| W06-3 | 48X48 | 16.00 | | | | | | TWO WAY TRAFFIC (SYMBOL) |
| W07-3a | 30X24 | 5.00 | | | | | | NEXT XX MILES (PLAQUE) |
| W08-1 | 48X48 | 16.00 | | | | | | BUMP |
| W08-2 | 48X48 | 16.00 | | | | | | DIP |
| W08-3 | 48X48 | 16.00 | | | | | | PAVEMENT ENDS |
| W08-4 | 48X48 | 16.00 | | | | | | SOFT SHOULDER |
| W08-5 | 48X48 | 16.00 | | | | | | SLIPPERY WHEN WET (SYMBOL) |
| W08-6 | 48X48 | 16.00 | | | | | | TRUCK CROSSING |
| W08-6c | 48X48 | 16.00 | | | | | | TRUCK ENTRANCE |
| W08-7 | 36X36 | 9.00 | | | | | | LOOSE GRAVEL |
| W08-7a | 36X36 | 9.00 | | | | | | FRESH OIL/LOOSE GRAVEL |
| W08-9 | 48X48 | 16.00 | | | | | | LOW SHOULDER |
| W08-11 | 48X48 | 16.00 | | | | | | UNEVEN LANES |
| W08-12 | 48X48 | 16.00 | | | | | | NO CENTER LINE |
| W08-15 | 48X48 | 16.00 | | | | | | GROOVED PAVEMENT |
| W08-15P | 30X24 | 5.00 | | | | | | MOTORCYCLE (PLAQUE) |
| W08-17 | 48X48 | 16.00 | | | | | | SHOULDER DROP-OFF (SYMBOL) |
| W08-17P | 30X24 | 5.00 | | | | | | SHOULDER DROP-OFF (PLAQUE) |
| W10-1 | 42RND. | 9.62 | | | | | | RAILROAD CROSSING |
| W012-1 | 24X24 | 4.00 | | | | | | DOUBLE DOWN ARROW (SYMBOL) |
| W012-2 | 48X48 | 16.00 | | | | | | LOW CLEARANCE (SYMBOL) |
| W012-2X | 24X18 | 3.00 | | | | | | LOW CLEARANCE (PLAQUE) |
| W012-2a | 84X24 | 14.00 | | | | | | OVERHEAD LOW CLEARANCE (FEET AND INCHES) |
| W012-4 | 120X60 | 50.00 | | | | | | LOW CLEARANCE XX FT XX IN XX MILES AHEAD |
| W012-5 | 120X60 | 50.00 | | | | | | WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD |
| W013-1 | 30X30 | 6.25 | | | | | | ADVISORY SPEED (PLAQUE) |
| W016-2 | 30X24 | 5.00 | | | | | | XXX FEET (PLAQUE) |
| W016-3 | 30X24 | 5.00 | | | | | | X MILE (PLAQUE) |
| W020-1 | 48X48 | 16.00 | 6 | 96.00 | | | 2 | ROAD/BRIDGE/RAMP WORK AHEAD |
| W020-2 | 48X48 | 16.00 | | | | | | DETOUR AHEAD |
| W020-3 | 48X48 | 16.00 | | | | | | ROAD CLOSED AHEAD |
| W020-4 | 48X48 | 16.00 | 2 | 32.00 | | | 3 | ONE LANE ROAD AHEAD |
| W020-5 | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED AHEAD |
| W020-5a | 48X48 | 16.00 | | | | | | 2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD |
| W020-6a | 48X48 | 16.00 | | | | | | RIGHT/CENTER/LEFT LANE CLOSED |
| W020-7a | 48X48 | 16.00 | 2 | 32.00 | | | 4 | FLAGGER (SYMBOL) WITH FLAGS |
| W021-2 | 36X36 | 9.00 | | | | | | FRESH OIL |
| W021-5 | 48X48 | 16.00 | | | | | | SHOULDER WORK AHEAD |
| W022-1 | 48X48 | 16.00 | | | | | | BLASTING ZONE AHEAD |
| W022-2 | 42X36 | 10.50 | | | | | | TURN OFF 2-WAY RADIO AND PHONE |
| W022-3 | 42X36 | 10.50 | | | | | | END BLASTING ZONE |
| G022-1 | 21X15 | 2.19 | | | | | | WET PAINT (ARROW PIVOTS) |

| SIGN | SIZE IN. | AREA SQ.FT. | QTY EACH | TOTAL SQ.FT. | QTY RELOC EACH | TOTAL RELOC SQ.FT. | SIGN NUM. | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| GUIDE SIGNS | | | | | | | | |
| E05-1 | 36X48 | 12.00 | | | | | | GORE EXIT |
| E05-2 | 48X36 | 12.00 | | | | | | EXIT OPEN |
| E05-2a | 48X36 | 12.00 | | | | | | EXIT CLOSED |
| G020-1 | 60X24 | 10.00 | | | | | | ROAD WORK NEXT XX MILES |
| G020-2 | 48X24 | 8.00 | | | | | | END ROAD WORK |
| G020-4 | 36X18 | 4.50 | | | | | | PILOT CAR FOLLOW ME |
| G020-4a | 42X30 | 8.75 | | | | | | PLEASE WAIT FOR PILOT CAR |
| G020-5aP | 36X24 | 6.00 | | | | | | WORK ZONE (PLAQUE) |
| M04-8a | 24X18 | 3.00 | | | | | | END DETOUR |
| M04-9L | 48X36 | 12.00 | | | | | | DETOUR (LEFT ARROW) |
| M04-9R | 48X36 | 12.00 | | | | | | DETOUR (RIGHT ARROW) |
| M04-9P | 48X12 | 4.00 | | | | | | STREET NAME (PLAQUE) |
| M04-10L | 48X18 | 6.00 | | | | | | DETOUR (ARROW LEFT) |
| M04-10R | 48X18 | 6.00 | | | | | | DETOUR (ARROW RIGHT) |
| REGULATORY SIGNS | | | | | | | | |
| R1-1 | 48X48 | 13.25 | | | | | | STOP |
| R1-2 | 48TRI. | 6.93 | | | | | | YIELD |
| R1-2a | 36X36 | 9.00 | | | | | | TO ONCOMING TRAFFIC (PLAQUE) |
| R1-3P | 30X12 | 2.50 | | | | | | ALL WAY (PLAQUE) |
| R2-1 | 36X48 | 12.00 | | | | | | SPEED LIMIT XX |
| R3-1 | 48X48 | 16.00 | | | | | | NO RIGHT TURN (SYMBOL) |
| R3-2 | 48X48 | 16.00 | | | | | | NO LEFT TURN (SYMBOL) |
| R3-3 | 36X36 | 9.00 | | | | | | NO TURNS |
| R3-4 | 48X48 | 16.00 | | | | | | NO U-TURN (SYMBOL) |
| R3-7L | 30X30 | 6.25 | | | | | | LEFT LANE MUST TURN LEFT |
| R3-7R | 30X30 | 6.25 | | | | | | RIGHT LANE MUST TURN RIGHT |
| R4-1 | 36X48 | 12.00 | | | | | | DO NOT PASS |
| R4-2 | 36X48 | 12.00 | | | | | | PASS WITH CARE |
| R4-8a | 36X48 | 12.00 | | | | | | KEEP LEFT (HORIZONTAL ARROW) |
| R4-7a | 36X48 | 12.00 | | | | | | KEEP RIGHT (HORIZONTAL ARROW) |
| R5-1 | 30X30 | 6.25 | | | | | | DO NOT ENTER |
| R5-1a | 36X24 | 6.00 | | | | | | WRONG WAY |
| R6-1L | 54X18 | 6.75 | | | | | | ONE WAY ARROW (LEFT) |
| R6-1R | 54X18 | 6.75 | | | | | | ONE WAY ARROW (RIGHT) |
| R6-2L | 24X30 | 5.00 | | | | | | ONE WAY (LEFT) |
| R6-2R | 24X30 | 5.00 | | | | | | ONE WAY (RIGHT) |
| R9-9 | 24X12 | 2.00 | 6 | 12.00 | | | 9 | SIDEWALK CLOSED |
| R9-11L | 24X18 | 3.00 | 1 | 3.00 | | | 31 | SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE |
| R9-11R | 24X18 | 3.00 | 1 | 3.00 | | | 32 | SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE |
| R10-6 | 24X36 | 6.00 | | | | | | STOP HERE ON RED (45° ARROW) |
| R11-2 | 48X30 | 10.00 | 2 | 20.00 | | | 11 | ROAD CLOSED |
| R11-3a | 60X30 | 12.50 | | | | | | ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY |
| R11-4 | 60X30 | 12.50 | 2 | 25.00 | | | 10 | ROAD CLOSED TO THRU TRAFFIC |
| CONST-3A | 60X48 | 20.00 | | | | | | FINE SIGN |
| CONST-3X | 56X12 | 4.67 | | | | | | SPEEDING/PASSING (PLATE) |
| MISCELLANEOUS SIGNS | | | | | | | | |
| CONST-5 | 48X36 | 12.00 | | | | | | POINT OF PRESENCE |
| CONST-4 | 96X48 | 32.00 | | | | | | POINT OF PRESENCE |
| CONST-7 | 48X24 | 8.00 | | | | | | RATE OUR WORK ZONE |
| CONST-7 | 72X36 | 18.00 | | | | | | RATE OUR WORK ZONE |
| CONST-8 | 48X36 | 12.00 | | | | | | WORK ZONE NO PHONE ZONE |

| | | |
|---|---|---|
| 616-10.05 CONSTRUCTION SIGNS | TOTAL | 223.00 |
| 616-10.10 RELOCATED SIGNS | TOTAL | |

| ITEM NUMBER | TOTAL QTY | DESCRIPTION |
|---|---|---|
| 6122008 | | IMPACT ATTENUATOR 40 MPH (SAND BARRELS) |
| 6122009 | | IMPACT ATTENUATOR 45 MPH (SAND BARRELS) |
| 6122010 | | IMPACT ATTENUATOR 50 MPH (SAND BARRELS) |
| 6122012 | | IMPACT ATTENUATOR 55 MPH (SAND BARRELS) |
| 6122014 | | IMPACT ATTENUATOR 60 MPH (SAND BARRELS) |
| 6122017 | | IMPACT ATTENUATOR 65 MPH (SAND BARRELS) |
| 6122019 | | IMPACT ATTENUATOR 70 MPH (SAND BARRELS) |
| 6122020 | | REPLACEMENT SAND BARREL |
| 6122030 | | IMPACT ATTENUATOR (RELOCATION) |
| 6123000A | | TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA) |
| 6161007 | | SPEED LIMIT AND STROBE LIGHT ASSEMBLY |
| 6161008 | 4 | ADVANCED WARNING RAIL SYSTEM |
| 6161009 | 6 | FLAG ASSEMBLY |
| 6161012 | | BUOYS (BOATS KEEP OUT) |
| 6161013 | | BUOYS (NO WAKE) |
| 6161014 | | SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT) |
| 6161024 | | CHANNELIZER (TRIM LINE) WITH LIGHT |
| 6161025 | 26 | CHANNELIZER (TRIM LINE) |
| 6161030 | 8 | TYPE III MOVEABLE BARRICADE |
| 6161031 | 4 | TYPE III MOVEABLE BARRICADE WITH LIGHTS |
| 6161033 | | DIRECTION INDICATOR BARRICADE |
| 6161034 | | DIRECTION INDICATOR BARRICADE, WITH LIGHT |
| 6161040 | | FLASHING ARROW PANEL |
| 6161047 | | TYPE III OBJECT MARKER |
| 6161052 | | WARNING LIGHT, TYPE B |
| 6161055 | | SEQUENTIAL FLASHING WARNING LIGHT |
| 6161070 | | TUBULAR MARKER |
| 6161095 | | RADAR SPEED ADVISORY SYSTEM |
| 6161096 | | CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED |
| 6161098A | | CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6161099 | 2 | CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| 6162000A | | WORK ZONE TRAFFIC SIGNAL SYSTEM |
| 6162002 | | TEMPORARY LONG-TERM RUMBLE STRIPS |
| 6162004 | | TEMPORARY SHORT-TERM RUMBLE STRIPS |
| 6173600D | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED |
| 6173602B | | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED |
| 6174000A | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION |
| 6175010A | | RELOCATING TEMPORARY TRAFFIC BARRIER |
| 6176000B | | TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED |
| 6177000B | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED |
| 6208064A | | TEMPORARY RAISED PAVEMENT MARKER |
| 9029400 | | TEMPORARY TRAFFIC SIGNALS |
| 9029401 | | TEMPORARY TRAFFIC SIGNALS AND LIGHTING |
| 6169902 | 8 | DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE |
| | | |
| | | |

QUANTITY SHEET
SHEET 3 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/5/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 3 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| NO. | DESCRIPTION | DATE |
|---|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

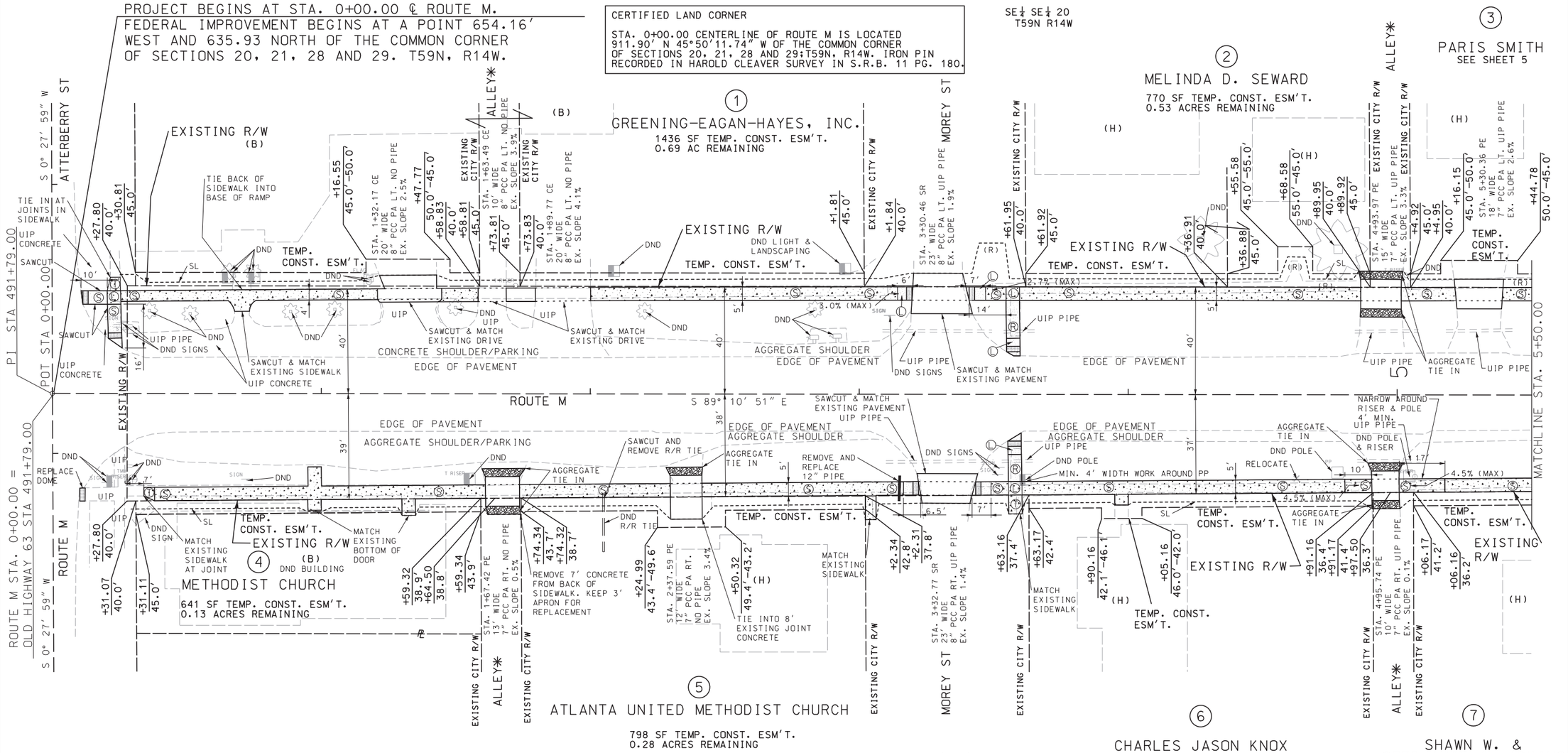
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

PROJECT BEGINS AT STA. 0+00.00 ℄ ROUTE M.
FEDERAL IMPROVEMENT BEGINS AT A POINT 654.16' WEST AND 635.93 NORTH OF THE COMMON CORNER OF SECTIONS 20, 21, 28 AND 29. T59N, R14W.

CERTIFIED LAND CORNER

STA. 0+00.00 CENTERLINE OF ROUTE M IS LOCATED 911.90' N 45°50'11.74" W OF THE COMMON CORNER OF SECTIONS 20, 21, 28 AND 29;T59N, R14W. IRON PIN RECORDED IN HAROLD CLEAVER SURVEY IN S.R.B. 11 PG. 180.




GENERAL NOTES

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 0+00.00 TO STA. 9+50.40, A DISTANCE OF 0.184 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE STATE PLANE BEARING, NAD83, CENTRAL ZONE.
4. ALL CURB RAMPS AND SIDEWALK WITHIN THE PROJECT LIMITS AND SHOWN TO USE IN PLACE SHALL BE FIELD VERIFIED FOR COMPLIANCE BY THE CONTRACTOR. IF AREAS ARE FOUND TO BE NON-COMPLIANT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
5. ALL SODDING SHALL BE PERFORMED THROUGHOUT THE DURATION OF THE PROJECT. DISTURBED AREAS SHALL BE MINIMIZED TO BE LESS THAN 1 ACRE AT ALL TIMES.
6. UNLESS DIRECTED BY THE ENGINEER, EROSION CONTROL SHALL BE LIMITED TO DEVICES INCLUDED IN THE CONTRACT.
7. SEE SPECIAL SHEETS FOR ENTRANCE PROFILES.
8. ALL NEW SIDEWALK SHALL BE CONSTRUCTED 5 FEET WIDE UNLESS OTHERWISE NOTED IN THE PLANS. RESIDENTIAL SIDEWALK CONNECTIONS SHALL MATCH EXISTING WIDTH.

* ALLEY NOT BEING USED AS PUBLIC ACCESS

| | | | |
|---|---|---|---|
| | GRAVEL | (S) | SIDEWALK SECTION |
| | RAMP/LANDING | (R) | RAMP |
| | SIDEWALK | (T) | TRANSITION |
| | TRUNCATED DOMES | (L) | LANDING |

SCALE
0 20 40 60

PLAN SHEET
SHEET 1 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

| | |
|---|---|
| DATE PREPARED | 12/13/2019 |
| ROUTE | M |
| STATE | MO |
| DISTRICT | NE |
| SHEET NO. | 4 |
| COUNTY | MACON |
| JOB NO. | J2S3221 |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

DESCRIPTION
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REV.

pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.113/MicroStation/J2S3221/plan_sheets/004_PP_J2S3221_I20.dgn 10:51:24 AM 12/13/2019

CERTIFIED LAND CORNER

STA. 9+73.99 CENTERLINE OF ROUTE M IS LOCATED 698.84' N 27°13'38.73" E OF THE COMMON CORNER OF SECTIONS 20, 21, 28 AND 29:T59N, R14W. IRON PIN RECORDED IN HAROLD CLEAVER SURVEY IN S.R.B. 11 PG. 180.

STOP
R1-1

(1)
STA. 6+47.81
EXIST STOP SIGN
EAST ST.(NORTH)
LOCATE AS DIRECTED BY ENGINEER

SE¼ SE¼ 20
T59N R14W

SW¼ SW¼ 21
T59N R14W

END PROJECT AT STA. 9+73.99, OF ROUTE M.
FEDERAL IMPROVEMENT ENDS AT A POINT LOCATED
621.4' NORTH AND 319.73' EAST OF THE COMMON
CORNER OF SECTIONS 20, 21, 28 AND 29; T59N, R14W

(3)
PARIS SMITH
858 SF TEMP. CONST. ESM'T.
0.68 ACRES REMAINING

(8)
RICHARD AND SHALLON COLLIER
620 SF TEMP. CONST. ESM'T.
0.56 ACRES REMAINING

(9)
MARY ERLENE WELLS
143 SF TEMP. CONST. ESM'T.
0.69 ACRES REMAINING

RICHARD GARDENER
NO TAKING

EAST ST
SECTION LINE
EXISTING CITY R/W
MAINT ESMT
MATCH EXISTING SIDEWALK AT JOINT
TEMP. CONST. ESM'T.
REMOVE PIPE
GRADE DITCH
ADJUST
4.5% (MAX)
14 LF 15" GROUP C PIPE
9 LF 15" GROUP C PIPE
TYPE A PIPE COLLAR
EDGE OF PAVEMENT
AGGREGATE SHOULDER
UIP PIPE
RELOCATE SIGN (1)
7" THICK SIDEWALK
SAWCUT & MATCH EXISTING PAVEMENT
FILL AREA AND SLOPE GRADE TOWARD ROAD
REMOVE HEADWALL AND CONNECT TO EXISTING PIPE
SAWCUT & MATCH EXISTING PAVEMENT
DND SIGNS
MIN. 4' WIDTH S.W. AROUND POLE
REMOVE TREE
DND TREE
TRIM TREES
TEMP. ESM'T.
MATCH EXISTING EDGE OF DRIVEWAY
UIP
ROUTE M
S 89° 10' 51" E
AGGREGATE TIE IN
BUILD SIDEWALK BETWEEN ANCHOR AND POWER POLE
REMOVE FOOTING
MATCH EXISTING SIDEWALK AT JOINT
DND PIPE
MATCH EXISTING EDGE OF ROAD
MATCH EXISTING SIDEWALK
EXISTING R/W
EXISTING R/W STA. & OFFSET: +58.00 35.0'-30.0'
ORCHARD ST
ALLEY*
STA. 6+59.30 SR 20' WIDE 8" PCC PA LT. NO PIPE EX. SLOPE 3.2%
STA. 6+63.12 SR 20' WIDE 8" PCC PA RT. NO PIPE EX. SLOPE 1.0%
STA. 8+78.46 PE 15' WIDE 12" PCC SIDEWALK RT. 7" PCC PA RT. UIP PIPE EX. SLOPE 0.8%
STA. 8+17.88 PE 15' WIDE 12" PCC SIDEWALK RT. UIP PIPE EX. SLOPE 0.6%

(7)
SHAWN W. & STEPHANIE A. ADKINS
695 SF TEMP. CONST. ESM'T.
0.29 ACRES REMAINING

(10)
RANDAL L. & DEBRA J. ALDRIDGE
822 SF TEMP. CONST. ESM'T.
0.56 ACRES REMAINING

(11)
MICHAEL AND CHASTITY KLAMERT
710 SF TEMP. CONST. ESM'T.
0.28 ACRES REMAINING

GRAVEL
RAMP/LANDING
SIDEWALK
TRUNCATED DOMES
(S) SIDEWALK SECTION
(R) RAMP
(T) TRANSITION
(L) LANDING

* ALLEY NOT BEING USED AS PUBLIC ACCESS

SCALE
0 20 40 60

PLAN SHEET
SHEET 2 OF 2

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 12/5/2019
ROUTE M | STATE MO
DISTRICT NE | SHEET NO. 5
COUNTY MACON
JOB NO. J2S3221
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV. | DATE | DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

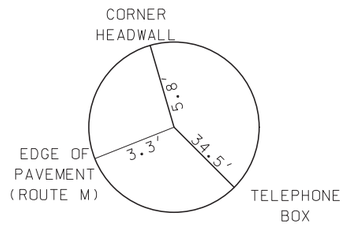
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

# Coordinate Point Listing
# Missouri Coordinate System of 1983

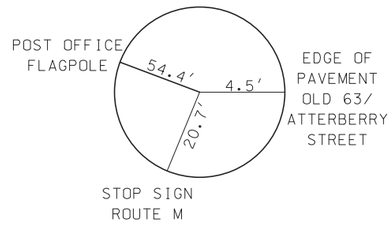
| COORDINATES FOR ROUTE M | | | | | | | |
|---|---|---|---|---|---|---|---|
| POINT NUMBER | STATION | STATE PLANE | | MODIFIED STATE PLANE | | DESCRIPTION | DESIGN POINT ID |
| | | NORTHING (FEET) | EASTING (FEET) | NORTHING (FEET) | EASTING (FEET) | | |
| 1 | 0+00.00 | 1,480,341.3687 | 1,646,179.3626 | 1,480,496.3767 | 1,646,351.7356 | BEGINNING OF PROJECT | B.P. |
| 2 | 9+73.99 | 1,480,327.4450 | 1,647,153.1510 | 1,480,482.4519 | 1,647,325.6261 | END OF PROJECT | E.P. |
| 3 | 17+18.11 | 1,480,316.8080 | 1,647,897.1171 | 1,480,471.8134 | 1,648,069.6700 | POINT OF TANGENCY | P.T. |

MISSOURI STATE PLANE CENTRAL ZONE, NAVD 88, NAD 83
COORDINATES LISTED ARE STATE PLANE (GRID) COORDINATES - U.S. SURVEY FEET
MODIFIED (GROUND) COORDINATES X 0.9998953 = STATE PLANE (GRID) COORDINATES

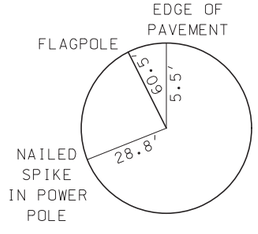
MISSOURI STATE PLANE CENTRAL ZONE, NAVD 88
COORDINATES LISTED BELOW ARE STATE PLANE COORDINATES - U.S. SURVEY FEET
STATE PLANE (GRID) COORDINATES X 1.0001047 = MODIFIED (GROUND) COORDINATES




GPS 1
5/8 REBAR WITH CAP
N: 1478130.791
E: 1646004.108
ELEV. 896.48
EAST SIDE OF ROAD AND
SOUTH OF CONCRETE BOX AT
ATTERBERRY & AARON STREET




GPS 2
5/8 REBAR WITH CAP
N: 1480238.507
E: 1645992.095
ELEV. 902.698
NW CORNER OF INTERSECTION
OF ROUTE M AND OLD 63




GPS 3
5/8 REBAR WITH CAP
N: 1480145.810
E: 1647545.890
ELEV. 900.654
EAST OF ENTRANCE TO STORE
ON SOUTH SIDE OF ROUTE M

NOT TO SCALE

COORDINATE POINTS SHEET
REFERENCE POINTS SHEET
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 12/5/2019
ROUTE M | STATE MO
DISTRICT NE | SHEET NO. 6
COUNTY MACON
JOB NO. J2S3221
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

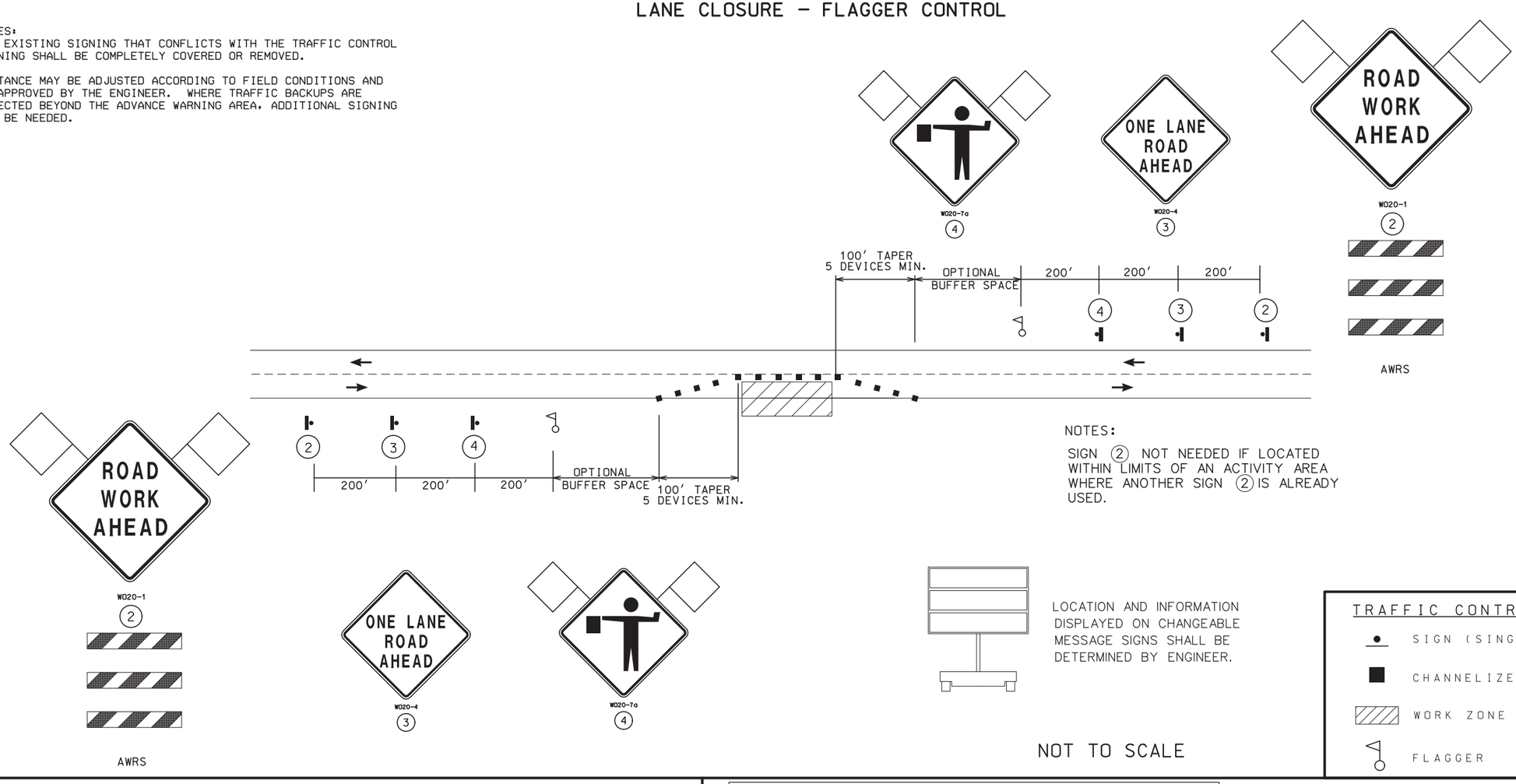
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

# LANE CLOSURE – FLAGGER CONTROL

NOTES:
ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.




NOTES:

SIGN (2) NOT NEEDED IF LOCATED WITHIN LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN (2) IS ALREADY USED.

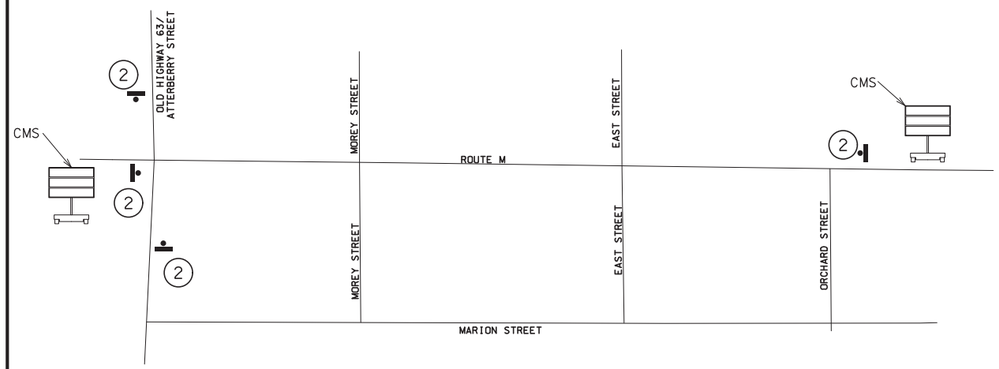
LOCATION AND INFORMATION DISPLAYED ON CHANGEABLE MESSAGE SIGNS SHALL BE DETERMINED BY ENGINEER.

NOT TO SCALE

## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- FLAGGER

## BEGIN AND END ROADWORK SIGNING (INSTALLED FOR DURATION OF PROJECT)




| TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES [2] | | | | |
|---|---|---|---|---|
| SPEED MPH (S) [1] | TAPER LENGTHS (L) FOR LATERAL SHIFTS (W) FT [2] | | CHANNELIZER SPACING [3], FT | |
| | SHOULDER [4] (T1) | LANE [5] (T2) | TAPERS | BUFFER/ WORK AREA |
| UP TO 35 | 70 | 245 | 35 [6] | 40 [6] |
| 40-45 | 150 | 540 | 40 [6] | 80 [6] |
| 50-55 | 185 | 660 | 50 [7] | 80 [7] |
| 60-70 | 235 | 840 | 60 [7] | 120 [7] |

1) SPEED LIMIT IS BASED ON POSTED SPEED LIMIT.
2) TAPER LENGTHS MAY BE ADJUSTED TO ACCOMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
3) CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
4) BASED ON 10 FT. SHOULDER WIDTH.
5) BASED ON 12 FT. LANE WIDTH.
6) SPACING REDUCED TO 1/2 AT INTERSECTIONS.
7) SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

| LONGITUDINAL BUFFER SPACE | |
|---|---|
| POSTED SPEED PRIOR TO CONSTRUCTION, MPH | LENGTH, FT. |
| UP TO 35 | 280 |
| 40-45 | 400 |
| 50-55 | 560 |
| 60-70 | 840 |

| SIGN SPACING FOR ADVANCE SIGN SERIES [8, 9] | | |
|---|---|---|
| POSTED SPEED MPH (P) | NON-DIVIDED HIGHWAYS (S) | DIVIDED HIGHWAYS (S) |
| 0-35 | 200 FT | 200 FT |
| 40-45 | 350 FT | 500 FT |
| 50-55 | 500 FT | 1000 FT |
| 60-70 | SA - 1000 FT, SB - 1500 FT AND SC - 2640 FT | |

8) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
9) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TAPER LENGTH (L)
L = W X P FOR 40 MPH OR MORE
L = $\frac{WP^2}{60}$ FOR 35 MPH OR LESS
L = TAPER LENGTH IN FEET
W = LATERAL SHIFT IN FEET
P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

TRAFFIC CONTROL PLAN
SHEET 1 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/11/2020
ROUTE: M | STATE: MO
DISTRICT: NE | SHEET NO.: 7
COUNTY: MACON
JOB NO.: J2S3221
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

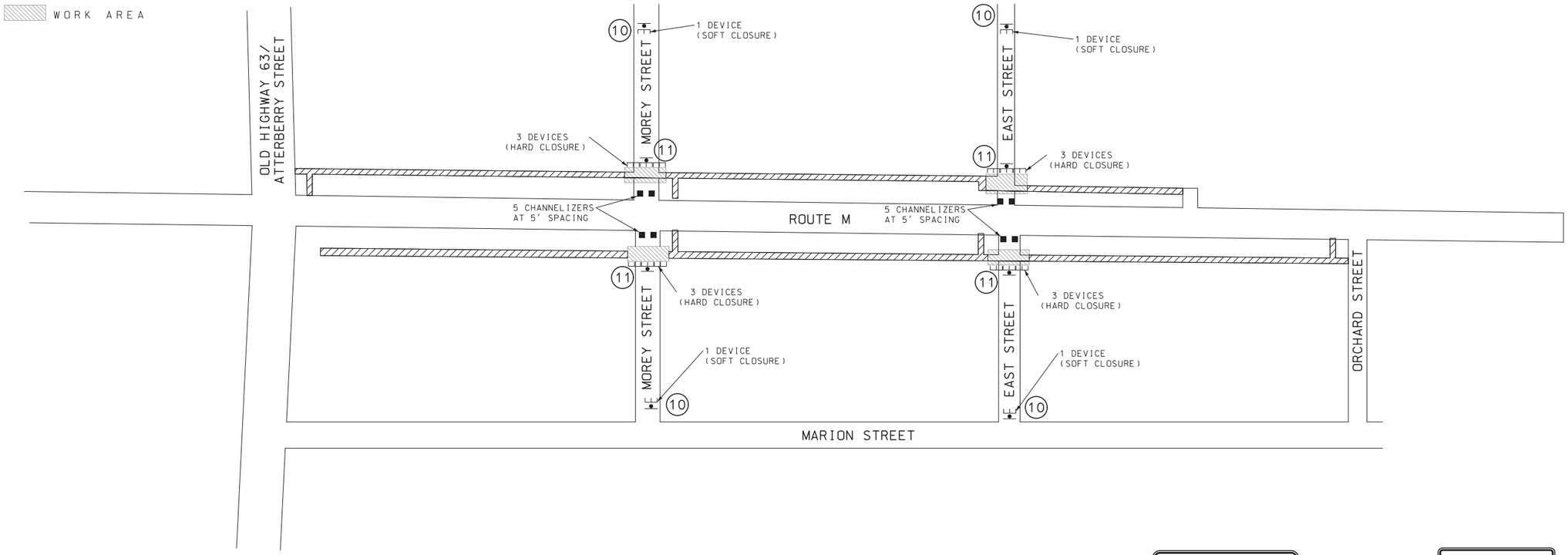
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



pw://bartwest-pw.bentley.com:bartwest-pw-01/Documents/Proj/18000/18432/18432.113/MicroStation/J2S3221/plan_sheets/007-009_TTC_01_of_03_J2S3221_11.dgn 9:22:20 AM 3/11/2020

## TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- TYPE III MOVEABLE BARRICADE
- WORK AREA

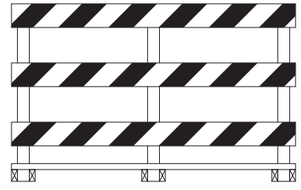



GENERAL NOTES:

1) FOR HARD CLOSURE, TWO TYPE 3 BARRICADES AND ONE TYPE 3 BARRICADE WITH LIGHTS ARE REQUIRED.
2) FOR SOFT CLOSURE, ONE TYPE 3 BARRICADE WITH LIGHTS IS REQUIRED
3) CONTRACTOR SHALL REFER TO ENGINEER TO DETERMINE LOCATION OF SOFT CLOSURES.
4) SIGN LOCATIONS TO BE APPROVED BY ENGINEER.
5) USE IN PLACE ALL SIGNS WHICH DO NOT CONFLICT WITH THIS PLAN. COVER AND/OR REMOVE CONFLICTING SIGNS.
6) ALL SPACING AND DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE REVISED AS APPROVED BY THE ENGINEER TO FIT FIELD CONDITIONS.
7) NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES.
8) ALL TRAFFIC CONTROL ITEMS WHICH ARE NOT INCLUDED IN THE PAY ITEMS ARE TO BE CONSIDERED INCIDENTAL.
9) MAINTAIN ACCESS TO ALL ENTRANCES AT ALL TIMES. ALL BUSINESSES SHOULD STILL REMAIN ACCESSIBLE BY ANOTHER ENTRANCE.
10) QUANTITIES FOR SIDE STREET CLOSURES WERE DETERMINED BY ALLOWING ENOUGH DEVICES TO CLOSE ONLY ONE STREET AT A TIME.

R11-4
10

R11-2
11



TYPE III MOVEABLE BARRICADE

NOT TO SCALE

SIDE STREET CLOSURE

TRAFFIC CONTROL PLAN
SHEET 2 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/5/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 8 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| REV. | DESCRIPTION | DATE |
|---|---|---|

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JEFFERSON CITY, MO 65102
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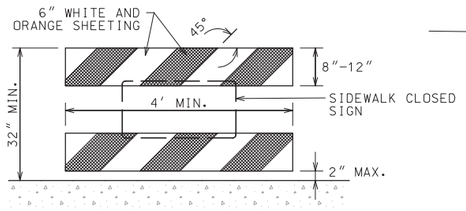
## TRAFFIC CONTROL LEGEND

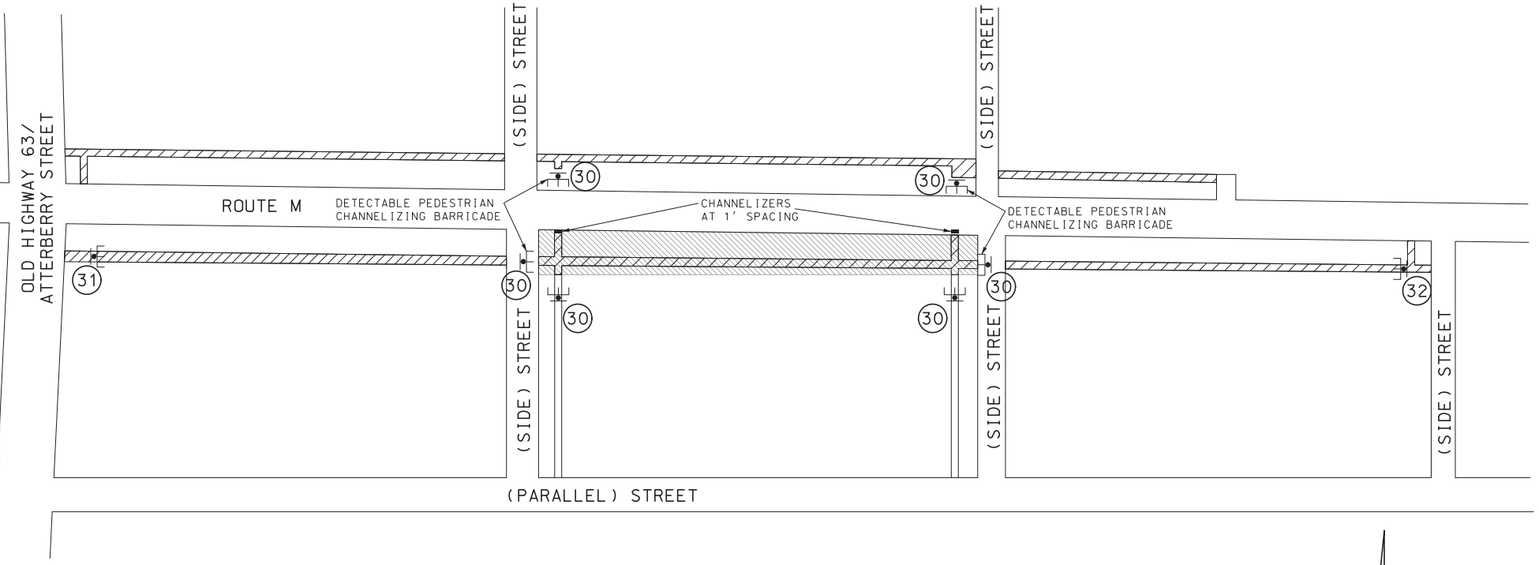
- SIGN (SINGLE SIDED)
- TYPE III MOVEABLE BARRICADE
- WORK AREA
- CHANNELIZER




INSTALL DETECTABLE PEDESTRIAN CHANNELIZING BARRICADES AND SIDEWALK CLOSED SIGNS AS DIRECTED BY THE ENGINEER.

WHERE CHANNELIZING DEVICES ARE USED TO CHANNELIZE PEDESTRIANS, THERE SHALL BE CONTINUOUS DETECTABLE BOTTOM AND TOP SURFACES TO BE DETECTABLE TO USERS OF LONG CANES.

**DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE**

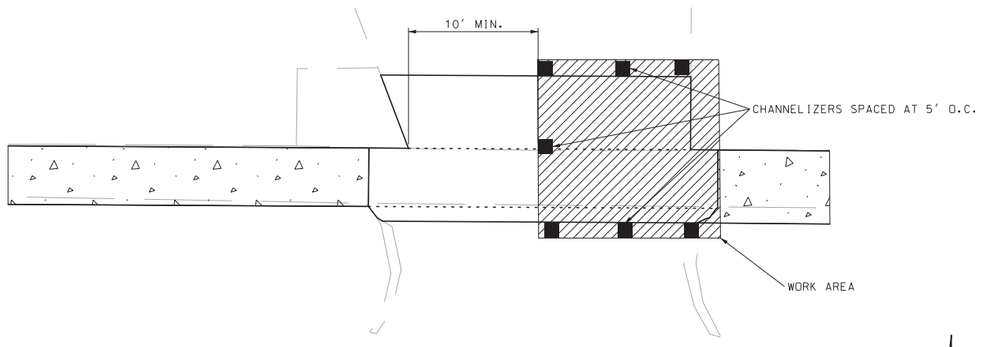


NOT TO SCALE

GENERAL NOTES:

1. QUANTITIES OF DEVICES FOR SIDEWALK CLOSURE WERE DETERMINED BY PROVIDING ENOUGH DEVICES TO CLOSE ONE BLOCK (ONE SIDE OF STREET) AT A TIME. EXAMPLE PROVIDED ABOVE DISPLAYS THE DESIRED LAYOUT OF PEDESTRIAN TRAFFIC CONTROL. AN ITERATION OF THIS LAYOUT SHALL BE PROVIDED AT EACH BLOCK WHILE UNDER CONSTRUCTION.
2. SIGN SHOULD BE PLACED AT NEAREST INTERSECTION STATING SIDEWALK CLOSED.
3. ALL SIGNS AND CHANNELIZERS MAY BE BE RELOCATED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

## SIDEWALK CLOSURE



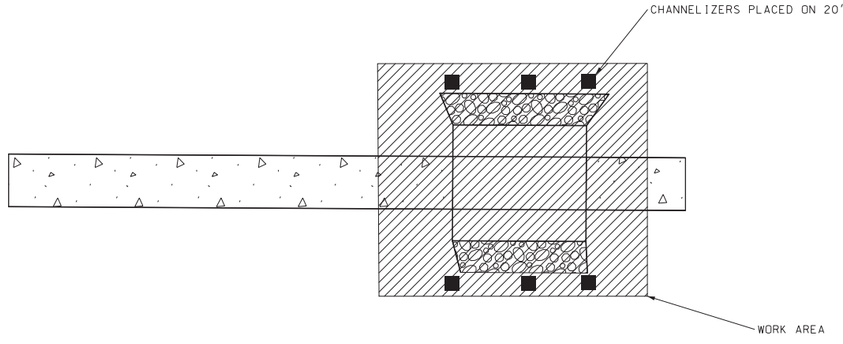

NOT TO SCALE

GENREAL NOTES

1. DRIVEWAY SHALL BE CONSTRUCTED ONE HALF AT A TIME TO MAINTAIN ACCESS TO FUNERAL HOME DURING CONSTRUCTION.

## FUNERAL HOME ENTRANCE

## TRAFFIC CONTROL FOR ENTRANCE CONSTRUCTION




GENREAL NOTES

1. IF PROPERTY HAS MULTIPLE ENTRANCES, THE CONTRACTOR MAY CLOSE ONE ENTIRE ENTRANCE, UNLESS NOTED ON THE PLANS.
2. THE CONTRACTOR SHALL LIMIT THE WORK ZONE TO MINIMIZE IMPACT ACCESS TO THE BUSINESS.
3. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIALS IN THE TEMPORARY EASEMENTS DURING NON-WORKING HOURS.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO THE PROPERTY.

TRAFFIC CONTROL PLAN
SHEET 3 OF 3

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 12/6/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 9 |

COUNTY: MACON
JOB NO.: J2S3221
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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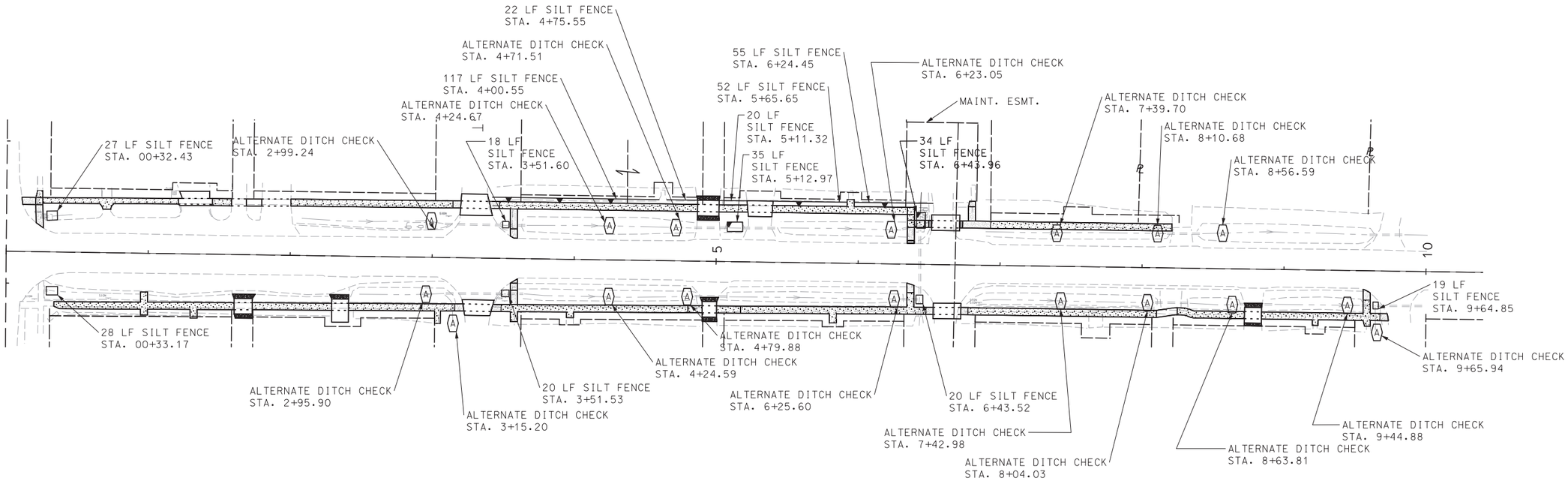
REV.

RECEIVING WATERS IS CONTRUBUTARY ARM OF BEE BRANCH




## TEMPORARY EROSION CONTROL LEGEND

(A) ALTERNATE DITCH CHECK

SILT FENCE

NOTES:
1. SEE STD PLAN 806.10 FOR TEMPORARY EROSION CONTROL DETAILS

2. ALL SODDING SHALL BE PERFORMED THROUGHOUT THE DURATION OF THE PROJECT. DISTURBED AREAS SHALL BE MINIMIZED TTO BE LESS THAN 1 ACRE AT ALL TIMES.

3. EROSION CONTROL PLANS WERE DEVELOPED USING EXISTING VEGETATION WITHIN R/W AS A BMP. IF THE ENGINEER DETERMINES THE CONTRACTOR'S METHODS REQUIRE ADDITIONAL EROSION CONTROL MEASURES THE CONTRACTOR SHALL INSTALL THEM AT NO ADDITIONAL COST.

SCALE
0 40 80 120

EROSION CONTROL
SHEET 1 OF 1

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/5/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 10 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DATE | DESCRIPTION |
|---|---|

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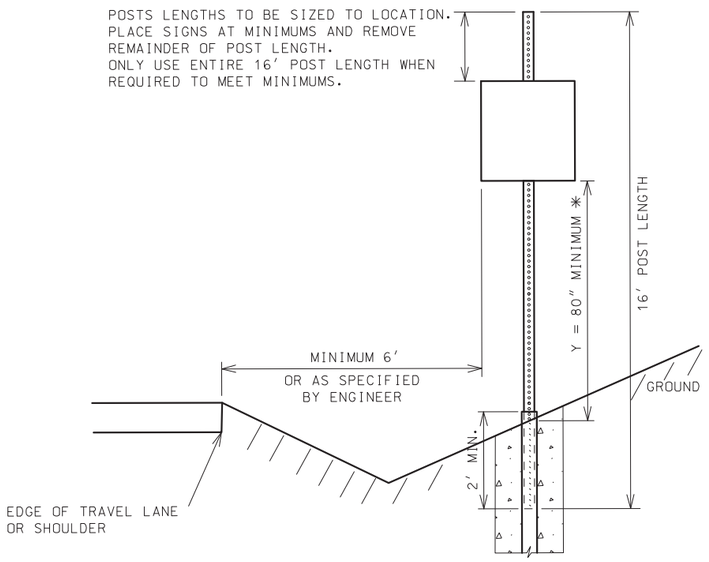
# MOUNTING HEIGHT DETAIL




* MINIMUM REQUIRED WHEN SIGNS ARE LOCATED ALONG AND WITHIN A PEDESTRIAN ROUTE. IN SITUATIONS WHERE THE SIGN IS NOT LOCATED WITHIN THE PEDESTRIAN ROUTE THE MINIMUM HEIGHT COULD BE REDUCED TO 5' IF 80" IS NOT ACHIEVABLE WITH A 16' POST.

POSTS – 12 GAUGE – 2.5" X 2.5"

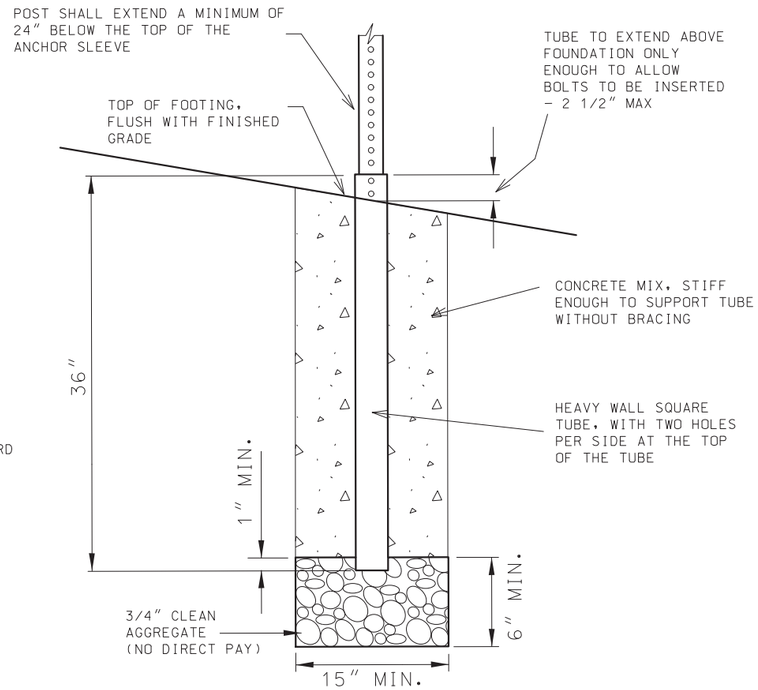
ANCHORS – 7 GAUGE – 3" X 3" O.D.

BREAKAWAY – CERTIFIED NCHRP 350 COMPLIANT
USE REQUIRED FOR DOUBLE POST
INSTALLATIONS ONLY

GALVANIZATION – ALL PSST POSTS, ANCHORS AND
BREAKAWAY CASTINGS SHALL BE
GALVANIZED PER MoDOT STANDARD
SPECIFICATIONS

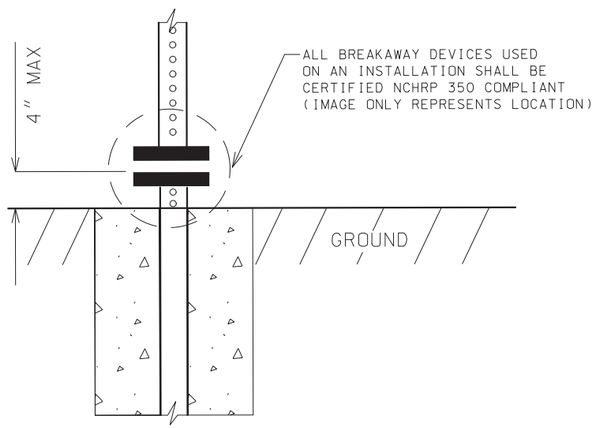
NOTE: PERFORATED SQUARE STEEL TUBE (PSST) POSTS ARE PAID AS 16 LINEAR FOOT, CONTRACTOR IS RESPONSIBLE TO PROPERLY PLACE SIGN AS SHOWN ABOVE IN "MOUNTING HEIGHT DETAIL"

# CONCRETE FOOTING DETAIL



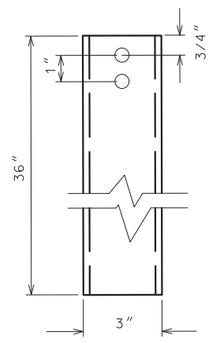

PSST CONCRETE FOOTINGS EMBEDDED PAID AS 3' LENGTH, 15" DIAMETER = 0.14 CUBIC YARDS
REQUIRED AGGREGATE CONSIDERED INCIDENTAL AND INCLUDED IN CONCRETE FOOTING

# BREAKAWAY DETAIL



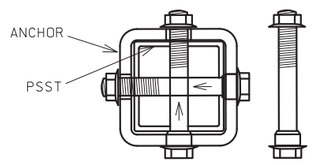

WHEN BREAKAWAY DEVICES ARE REQUIRED THE PORTION FIXED TO THE GROUND ANCHOR SHALL BE NO HIGHER THAN 4" ABOVE THE FINISHED GRADE

# 7 GAUGE ANCHOR FABRICATION DETAIL FOR 2.5" PSST




# ANCHOR BOLT DETAIL FOR 2.5" PSST

2 SHOULDER BOLTS REQUIRED
INSTALLED PERPENDICULAR TO EACH OTHER




3/8" X 3.5" SHOULDER BOLT AND NUT

SIGNING SHEET
SHEET 1 OF 2


STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.


DATE PREPARED 12/5/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 11 |

COUNTY: MACON
JOB NO.: J2S3221
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PHONE 573-634-3181
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WWW.BARTLETTWEST.COM

EFFECTIVE 12-01-2017

| SIGNS | | | | | | PIPE POST ✳ | | | | | STRUCTURAL STEEL | | | | | | | | | | | U CHANNEL POST | PERFORATED SQUARE STEEL TUBE POST | | | | | | | | | | | | | | FOOTINGS | | REMARKS AND OTHER REQUIRED ITEMS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 902 SIGNAL SIGNS TABULATED ON D-37A SHEET | | | | | | | | | | | POSTS ✳ | | | | | | BACKING BARS 2" X ⅜" BARS @ 2.55 LBS PER LIN FT | | | | TOTAL | | 2 IN | | | | | | | 2.5 IN | | | | | | BREAK-AWAY ASSEMBLY | EMBD | BOLT DOWN | |
| SIGN NO. | SIGN SIZE | STATION | HORZ CLEAR IF NOT STD | LOCATION | SIGN DTL. SHT. NO. | PIPE SIZE | POST NO.1 | POST NO.2 | LBS PER FT | TOTAL ITEM NO. 9031220 | POST DES NO. | POST NO.1 | POST NO.2 | POST NO.3 | LBS PER FT | TOTAL | NO. EACH | LGTH | TOTAL | TOTAL | ITEM NO. 9031210 | ITEM NO. 9031250 | POST NO.1 | POST NO.2 | TOTAL ITEM NO. 9031270A | ANCHOR 7 GA. ITEM NO. 9031273 | OMNI 7 GA. ITEM NO. 9031279 | ANCHOR 12 GA. ITEM NO. 9031271 | OMNI 12 GA. ITEM NO. 9031278 | POST NO.1 | POST NO.2 | TOTAL ITEM NO. 9031280 | 2.25" INSERT ITEM NO. 9031272 | ANCHOR 7 GA. ITEM NO. 9031281 | OMNI 7 GA. ITEM NO. 9031282 | ITEM NO. 9031241 | ITEM NO. 9031010 | ITEM NO. 9031020 | |
| | | | | | | IN. | LF | LF | | LBS | | LF | LF | LF | | LBS | | IN. | LF | LBS | LBS | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | EACH | CU YDS | CU YDS | |
| 1 | EX. SIGN | AS DIRECTED | | LEFT | 5 | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.14 | | USE EXISTING SIGNS |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.14 | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | 16 | | 3 | | | 0.1 | | |

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

## ROUND PIPE POST AND FOOTING DATA TABLE

| NOM. SIZE (IN.) | WEIGHT LBS/FT | WEIGHT LBS/IN | STUB LENGTH | FOOTING DIA. | FOOTING DEPTH | CONCRETE C.Y. |
|---|---|---|---|---|---|---|
| 2½ | 5.79 | 0.48 | 4'- 3½" | 12" | 4'-6" | 0.13 |
| 3 | 7.58 | 0.63 | 4'- 3½" | 12" | 4'-6" | 0.13 |
| 4 | 10.79 | 0.90 | 5'- 3½" | 18" | 5'-6" | 0.36 |

## POST AND FOOTING DATA TABLE

| POST DES. NO. | NOM. SIZE | POST WEIGHT LBS/FT | POST WEIGHT LBS/IN | STUB LENGTH | FOOTING DIA. | LEVEL GROUND DEPTH | LEVEL GROUND C.Y. | 6:1 GRADE DEPTH | 6:1 GRADE C.Y. | 4:1 GRADE DEPTH | 4:1 GRADE C.Y. | 3:1 OR 2:1 GRADE DEPTH | 3:1 OR 2:1 GRADE C.Y. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | W6 | 9.0 | 0.75 | 3'-0" | 15" | 3'-0" | 0.14 | 3'-2" | 0.15 | 3'-3" | 0.16 | 3'-6" | 0.17 |
| 2 | W6 | 15.0 | 1.25 | 4'-0" | 24" | 4'-0" | 0.47 | 4'-2" | 0.50 | 4'-3" | 0.51 | 4'-6" | 0.54 |
| 3 | W8 | 18.0 | 1.50 | 4'-6" | 28" | 4'-6" | 0.71 | 4'-8" | 0.73 | 4'-9" | 0.74 | 5'-0" | 0.78 |
| 4 | W10 | 22.0 | 1.83 | 5'-0" | 36" | 5'-0" | 1.31 | 5'-2" | 1.36 | 5'-3" | 1.39 | 5'-6" | 1.45 |
| 5 | W10 | 26.0 | 2.17 | 5'-0" | 36" | 5'-0" | 1.31 | 5'-3" | 1.37 | 5'-5" | 1.43 | 5'-9" | 1.52 |
| 6 | W12 | 35.0 | 2.92 | 5'-6" | 36" | 5'-6" | 1.44 | 5'-9" | 1.52 | 5'-11" | 1.56 | 6'-3" | 1.65 |

SIGNING SHEET
SHEET 2 OF 2

D-29

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/5/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 12 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

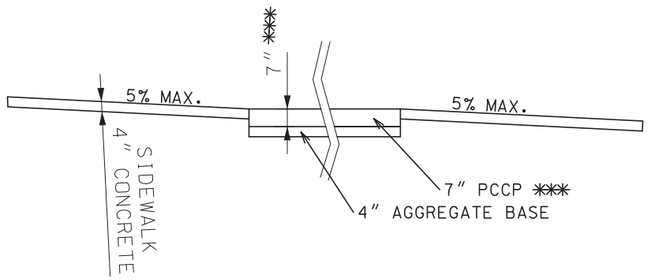
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

* ACCESSIBLE PEDESTRIAN ROUTE THROUGH PAVED APPROACH. THE CROSS SLOPE SHALL BE 1.0% TO FACILITATE DRAINAGE (2.0% MAX.), UNLESS OTHERWISE NOTED IN THE PLANS.

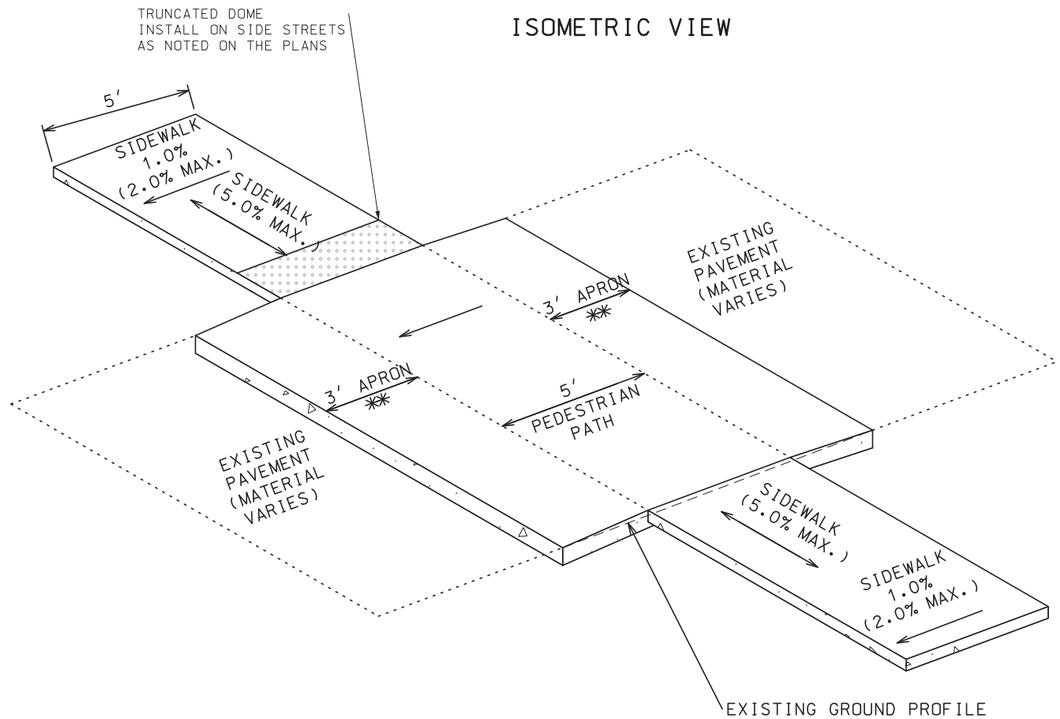
** APRONS, TYPICALLY 3′ IN WIDTH, CONSTRUCT AS NOTED IN THE PLANS. DIRECTION AND GRADE OF SLOPE WILL VARY BASED ON THE EXISTING DRIVE (SEE DRIVE PROFILES FOR SLOPES). SOME DRIVES DO NOT REQUIRE APRONS (SEE PLAN SHEET).

*** PAVEMENT THICKNESS IS 7″ FOR RESIDENTIAL DRIVES AND ALLEYS. PAVEMENT THICKNESS IS 8″ FOR SIDESTREETS AND COMMERCIAL DRIVES.

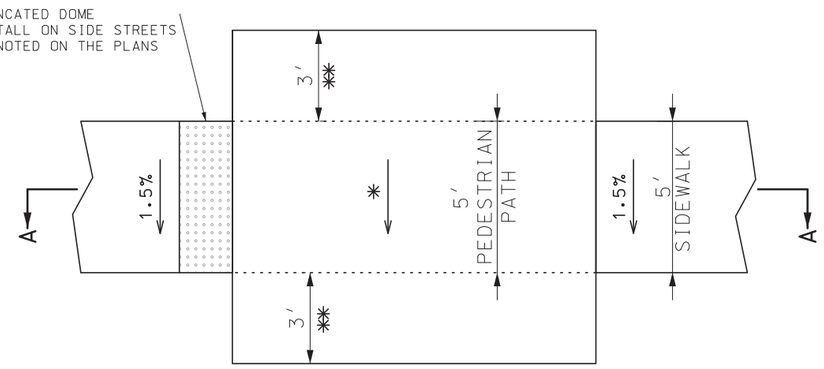
## SECTION A–A




## ISOMETRIC VIEW




## PLAN VIEW




PLAN AND ISOMETRIC VIEW OF
RESIDENTIAL DRIVES, COMMERCIAL DRIVES,
ALLEYS AND SIDE STREETS

SPECIAL SHEET
SHEET 1 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 12/6/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 13 |

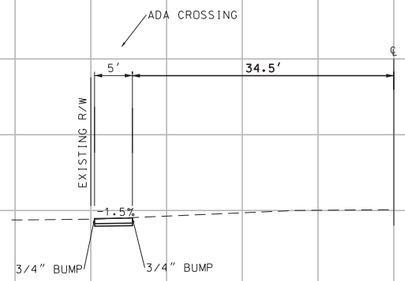
COUNTY: MACON
JOB NO.: J2S3221
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

| DESCRIPTION | DATE |
|---|---|
| | |

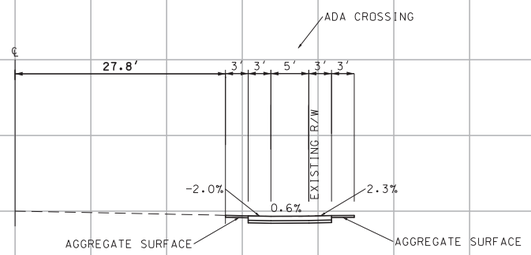
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

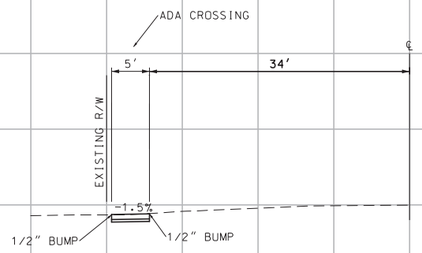

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




STA.1+89.77
PAVED APPROACH LT
NO PIPE




STA.1+67.42
PAVED APPROACH RT
NO PIPE

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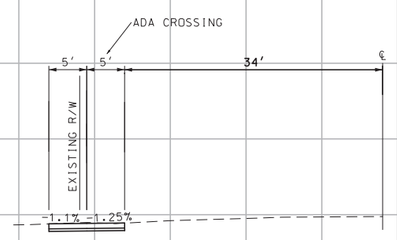
NO PIPE




STA.1+32.17
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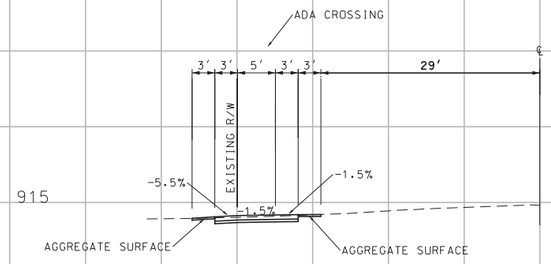
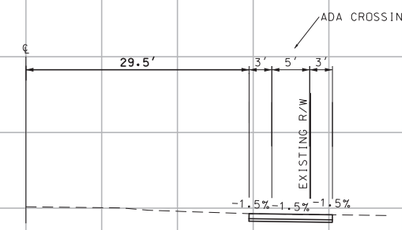
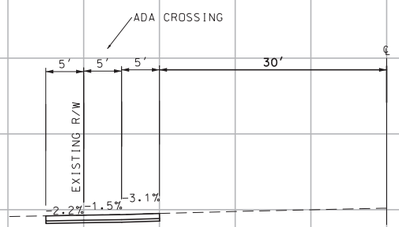
NO PIPE



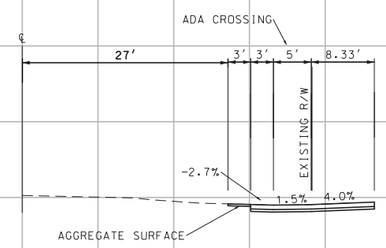

STA.4+93.97
PAVED APPROACH LT
DND PIPE




STA.3+32.80 (MOREY ST)
PAVED APPROACH RT
DND PIPE




STA.3+30.46 (MOREY ST)
PAVED APPROACH LT
DND PIPE




STA.2+35.81
PAVED APPROACH RT
NO PIPE

DRIVE PROFILE
SPECIAL SHEET
SHEET 2 OF 6

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

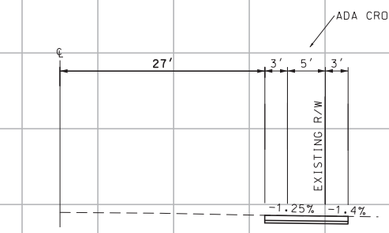
DATE PREPARED: 12/6/2019
ROUTE: M | STATE: MO
DISTRICT: NE | SHEET NO.: 14
COUNTY: MACON
JOB NO.: J2S3221
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

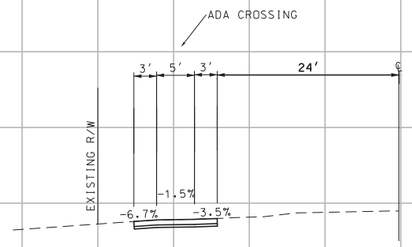
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

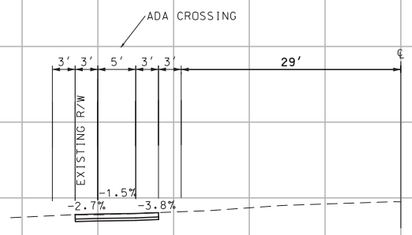
Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



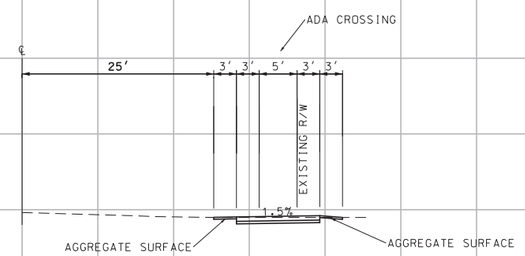

STA.6+63.08 (EAST ST)
PAVED APPROACH RT
NO PIPE



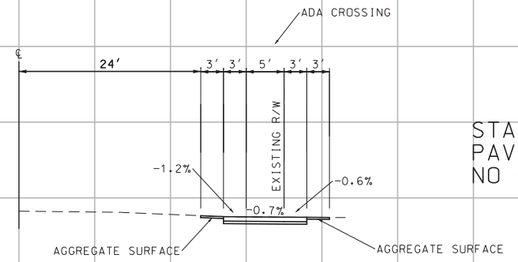

STA.6+61.30 (EAST ST)
PAVED APPROACH LT
NO PIPE



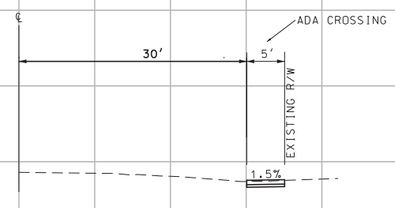

STA.5+30.36
PAVED APPROACH LT
DND PIPE




STA.4+95.69
PAVED APPROACH RT
DND PIPE




STA.8+78.46
PAVED APPROACH RT
NO PIPE




STA.8+17.88
PAVED APPROACH RT
NO PIPE

DRIVE PROFILE
SPECIAL SHEET
SHEET 3 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/6/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 15 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

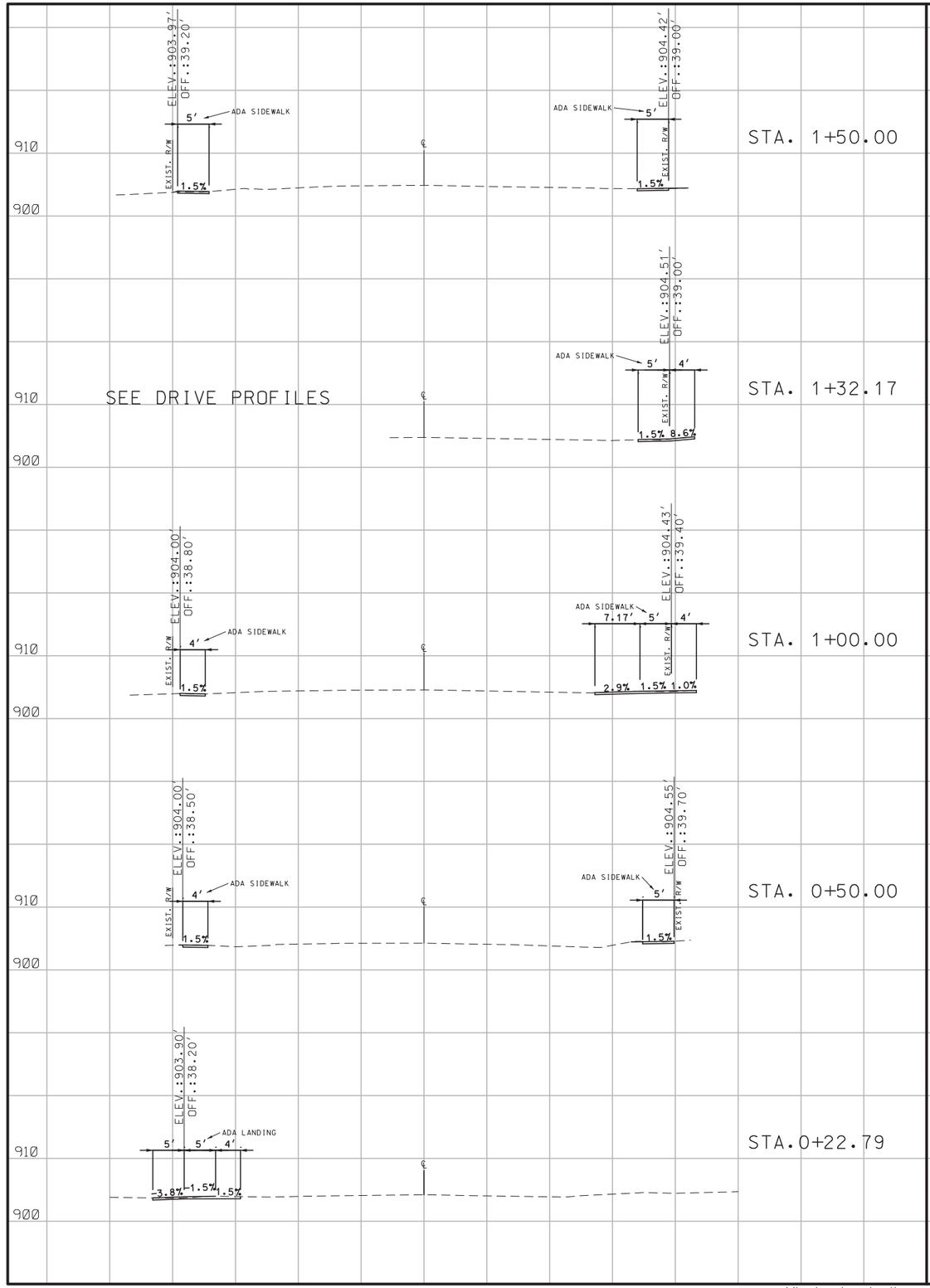
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




ISOLATED SIDEWALK SECTIONS
SPECIAL SHEET
SHEET 4 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/6/2019

| ROUTE | STATE |
|---|---|
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 16 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

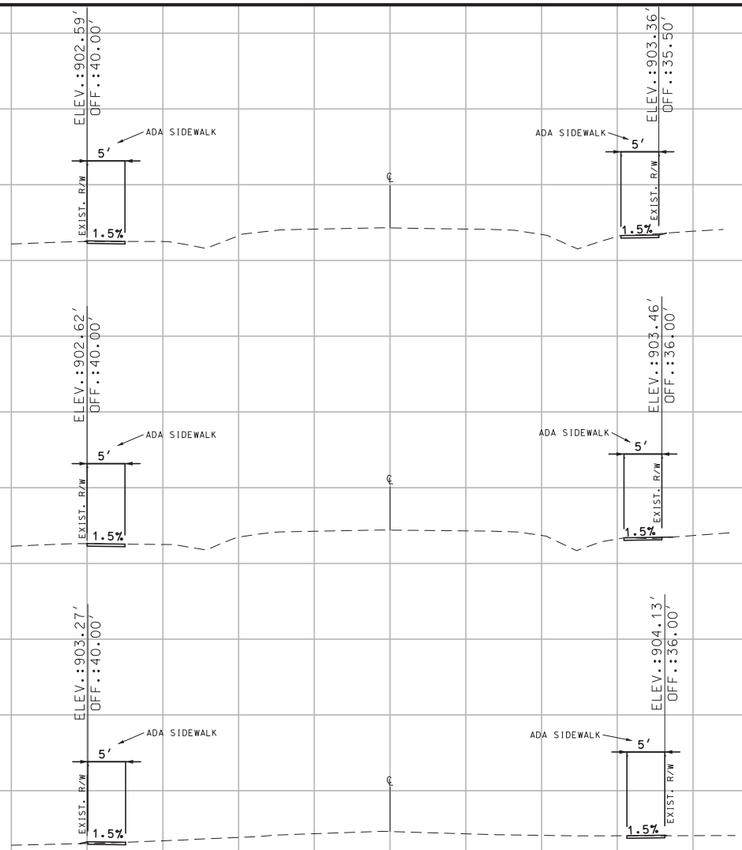
BRIDGE NO.

| DESCRIPTION | DATE |
|---|---|
| | |

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



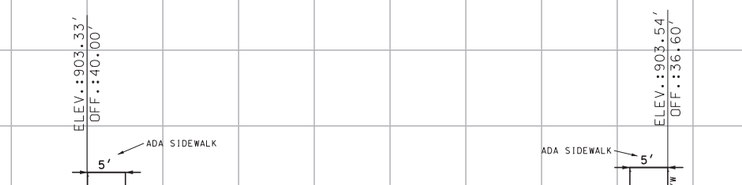

STA. 6+00.00




STA. 5+50.00



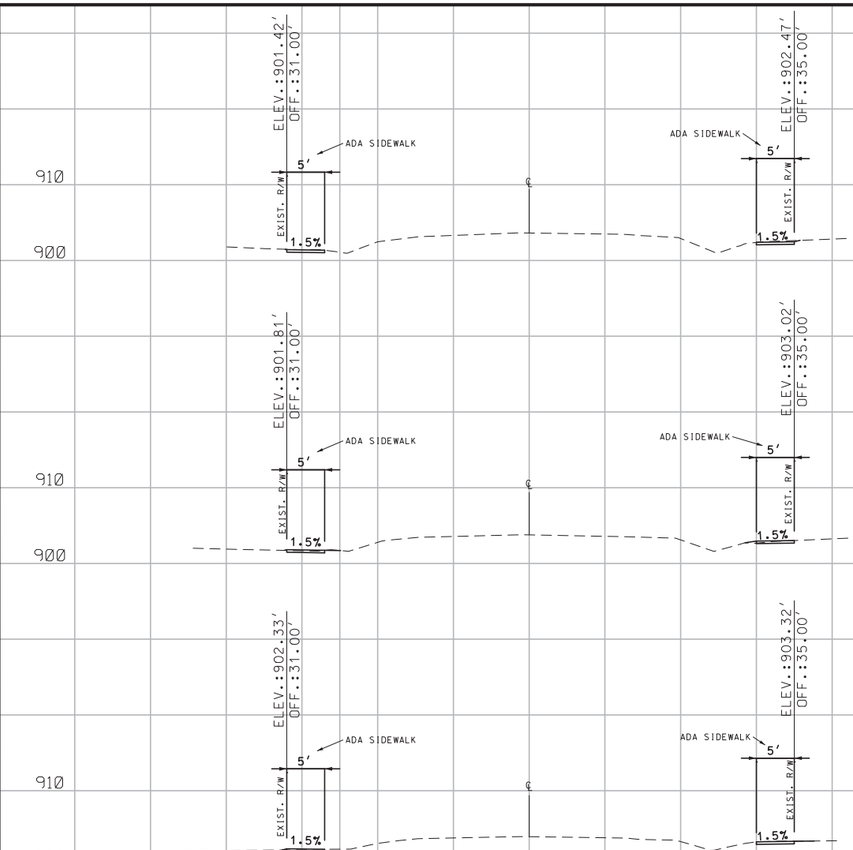

STA. 5+00.00




STA. 4+50.00

SEE DRIVE PROFILES

STA. 4+00.00




STA. 8+00.00

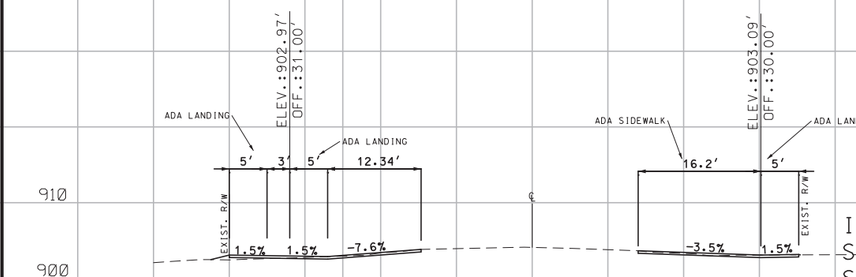



STA. 7+50.00




STA. 7+00.00

STA.6+50.00




STA. 6+36.84

ISOLATED SIDEWALK SECTIONS
SPECIAL SHEET
SHEET 5 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DATE PREPARED | |
|---|---|
| 12/6/2019 | |
| ROUTE | STATE |
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 17 |

COUNTY
MACON

JOB NO.
J2S3221

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

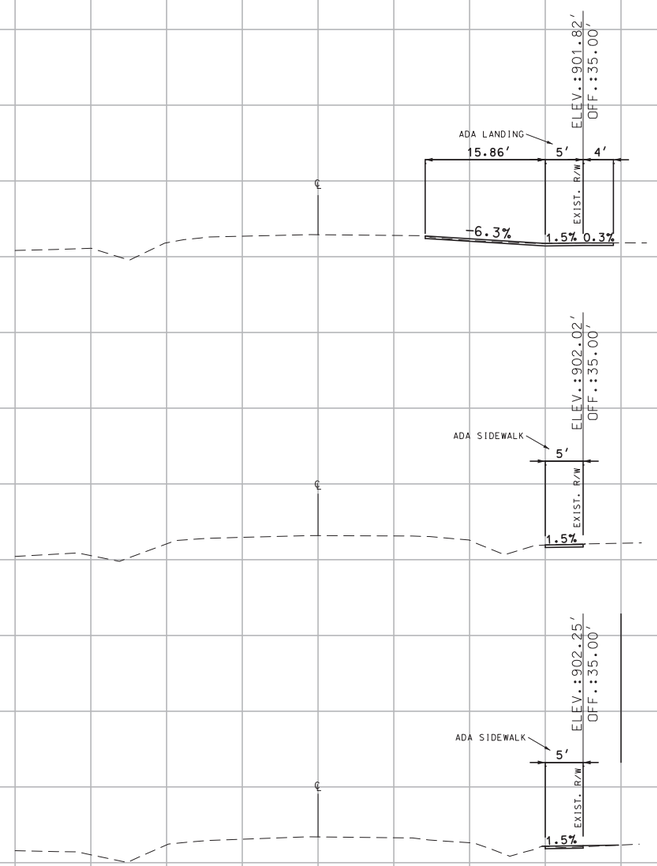
| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


Bartlett & West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM




STA. 9+58.55




STA. 9+00.00




STA. 8+50.00

ISOLATED SIDEWALK
SECTIONS
SPECIAL SHEET
SHEET 6 OF 6

STATE OF MISSOURI
ROBERT B. GREEN
NUMBER PE-25339
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

| DATE PREPARED | |
|---|---|
| 12/6/2019 | |
| ROUTE | STATE |
| M | MO |
| DISTRICT | SHEET NO. |
| NE | 18 |
| COUNTY | |
| MACON | |
| JOB NO. | |
| J2S3221 | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. | |

| DESCRIPTION | DATE |
|---|---|
| | |

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
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