

# PUBLIC STREET PLANS FOR RANSON ROAD PUBLIC IMPROVEMENTS CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

### LEGEND

▲CPT	SURVEY CONTROL POINT	⊠	TRAFFIC SIGNAL BOX
▲	SURVEY BENCHMARK	⊙	TRAFFIC SIGNAL MANHOLE
▲TM	SURVEY TEMPORARY BENCHMARK	⊙-BOX	TRAFFIC SIGNAL POLE W/ ARM
⊠	GAS METER	⊠	TRAFFIC SIGNAL POLE
⊠MAR	GAS RISER	⊠	TRAFFIC SIGNAL CONTROL BOX
⊠	GAS MANHOLE	⊠	TRAFFIC SIGNAL PEDESTAL
⊠R	GAS REGULATOR	⊠	ELECTRIC MANHOLE
⊠	TELEVISION PEDESTAL	⊠	ELECTRIC METER
⊠	FIBER PEDESTAL	⊠	ELECTRIC RISER
⊠	CABLE BOX	⊠	ELECTRIC BOX
⊠	CABLE VAULT	⊠	ELECTRIC CABINET
⊠	TELEPHONE PEDESTAL	⊠	ELECTRIC JUNCTION BOX
⊠	STORM MANHOLE	⊠	SPRINKLER HEAD
⊠	STORM GRATE	⊠	SPRINKLER CONTROL VALVE
⊠	SANITARY MANHOLE	⊠	WATER METER FIT
⊠	YARD LIGHT	⊠	FIRE HYDRANT
⊠	LIGHT POLE	⊠	WATER METER
⊠	POWER POLE	⊠	WATER VALVE
⊠PPP	POWER POLE W/ LIGHT	⊠	FLAG POLE
⊠	GUY WIRE	⊠	SIGN
⊠	STUMP	⊠	BOLLARD
⊠	BUSH	⊠	WOOD POST
⊠	EVERGREEN TREE	⊠	STEEL POST
⊠	DECIDUOUS TREE	⊠	COLUMN
⊠	MAILBOX	⊠	BORE HOLE
⊠		⊠	FIBER OPTIC VAULT

---	SECTION LINE
---	PROPERTY LINE
---	CENTER LINE
---	PROPOSED ROW LINE
---	EXISTING ROW LINE
---	UTILITY EASEMENT
-1371-	EXISTING MAJOR CONTOUR
-1371-	EXISTING MINOR CONTOUR
1371	PROPOSED MAJOR CONTOUR
1371	PROPOSED MINOR CONTOUR
---	EXISTING TELEPHONE LINE
---	EXISTING SANITARY LINE
---	EXISTING STORM LINE
---	EXISTING GAS LINE
---	EXISTING WATER LINE
---	EXISTING CHAIN LINK FENCE
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING UNDERGROUND ELECTRIC
---	GRADING LIMITS
---	TEMPORARY CONSTRUCTION EASEMENT
---	PROPOSED CHAIN LINK FENCE
---	PROPOSED WOOD PRIVACY FENCE
---	EXISTING TREELINE
---	EXISTING FIBER OPTIC LINE
---	EXISTING CATV LINE
---	PROPOSED UNDERDRAIN

### ABBREVIATION TABLE

M.G.	MATCH GRADE
P	PAVEMENT
TC	TOP OF CURB
BC	BACK OF CURB
EP	EDGE OF PAVEMENT
R/W	RIGHT-OF-WAY
TCE	TEMPORARY CONSTRUCTION EASEMENT
PROP.	PROPOSED
EXIST.	EXISTING
TYP.	TYPICAL
(R)	REMOVAL
CONST.	CONSTRUCT
TM	TEMPORARY BENCHMARK
OPT.	CONTROL POINT
D.N.D.	DO NOT DISTURB
U.I.P.	USE IN PLACE
ADJ.	ADJUST
EL.	ELEVATION
ESMT.	EASEMENT
B-B	BACK OF CURB TO BACK OF CURB DIMENSION
SP.	SPECIAL
DT.	DITCH
STD.	STANDARD
PERM.	PERMANENT



**1-800-DIG-RITE = 811**  
**www.mof1call.com**

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

### UTILITY COMPANIES

**WATER - LEE'S SUMMIT WATER UTILITIES**  
1200 SE HAMBLEN ROAD  
LEE'S SUMMIT, MO 64081  
(816) 969-1900

**WASTEWATER - LITTLE BLUE VALLEY SEWER DISTRICT**  
21208 E OLD ATHONTON ROAD  
INDEPENDENCE, MO 640581  
(816) 798-7660

**ELECTRIC - ENERGY**  
1300 SE HAMBLEN ROAD  
LEE'S SUMMIT, MO 64219  
(888) 471-5275

### UTILITY COMPANIES

**GAS - SPIRE GAS**  
3025 SE CLOVER DR  
LEE'S SUMMIT, MO 64082  
(816) 969-2200

**TELEPHONE - AT&T**  
1636 SE BLUE PKWY  
LEE'S SUMMIT, MO 64063  
(816) 600-5552

**CABLE - SPECTRUM**  
188 NW OLDHAM PKWY  
LEE'S SUMMIT, MO 64081  
(866) 874-2389

### FIBER OPTIC - GOOGLE FIBER

908 BROADWAY BLVD.  
KANSAS CITY, MO 64105.  
(913) 463-1900

**WATER - TRI-COUNTY WATER AUTHORITY**  
JOHN OVERSTREET  
28405 EAST BLUE VALLEY ROAD  
INDEPENDENCE, MO 64058  
(816) 798-4100 EXT. 204

### INDEX OF SHEETS

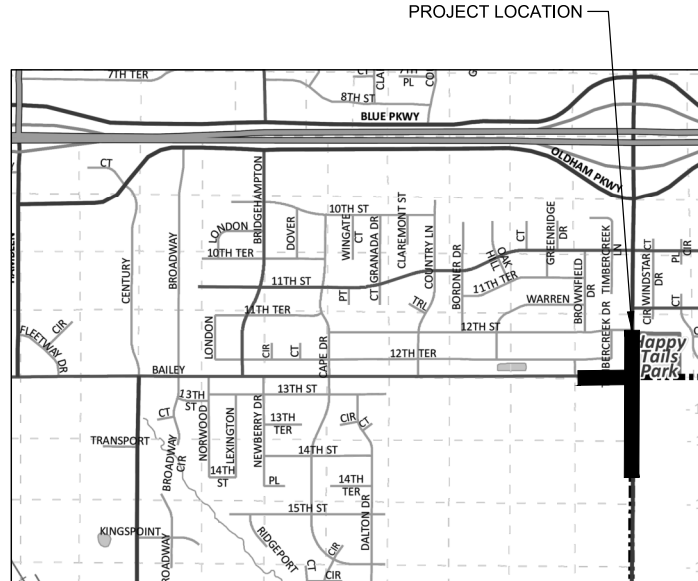
#### SHEET NO. TITLE

1	TITLE SHEET
2-3	GENERAL LAYOUT
4-8	ALIGNMENT DATA AND SURVEY CONTROL
9	GENERAL NOTES
10	RECAPITULATION OF QUANTITIES
11-14	DEMOLITION AND REMOVALS
15-16	TYPICAL SECTIONS
17-18	RIGHT OF WAY PLANS
19	PLAN & PROFILES - BAILEY ROAD
20-22	PLAN & PROFILES - RANSON ROAD
23	INTERSECTION LAYOUT
24	SIDEWALK RAMP LAYOUT
25	STORM SEWER PROFILES
26-28	STORM SEWER DETAILS
29-32	STANDARD DETAILS
33	EROSION CONTROL PLANS
34-35	EROSION CONTROL DETAILS
36-41	TRAFFIC SIGNAL PLANS AND DETAILS
42	PAVEMENT MARKING & SIGNING PLANS AND DETAILS
44-45	TEMPORARY TRAFFIC CONTROL PLANS AND DETAILS
46-47	CROSS SECTIONS - BAILEY ROAD
48-52	CROSS SECTIONS - RANSON ROAD

PREPARED & SUBMITTED BY:



7301 W. 133RD STREET, SUITE 200  
OVERLAND PARK, KANSAS 66213



### LOCATION MAP

NOT TO SCALE

### DESIGN/POSTED SPEED:

RANSON ROAD = 45 MPH  
BAILEY ROAD = 35 MPH

*Ryan B. Fleming* 07/29/21

RYAN B. FLEMING, P.E. DATE  
I CERTIFY THESE PLANS WERE PREPARED BY ME OR UNDER MY IMMEDIATE PERSONAL SUPERVISION. THE FOLLOWING DRAWINGS ARE INTENDED TO BE AUTHENTICATED BY MY SEAL: PE-2002003161

*Shannon Jeffries* 07/29/21

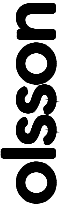
SHANNON JEFFRIES, P.E. DATE  
I CERTIFY THESE PLANS WERE PREPARED BY ME OR UNDER MY IMMEDIATE PERSONAL SUPERVISION. THE FOLLOWING DRAWINGS ARE INTENDED TO BE AUTHENTICATED BY MY SEAL: PE-2008000069

### APPROVED BY:

CITY OF LEE'S SUMMIT

GEORGE BINGER, P.E. DATE

CITY ENGINEER



Olsson Engineering, Inc. 2000 West 133rd Street, Suite 200  
Overland Park, KS 66213-1174  
TEL: 913.381.1170  
FAX: 913.381.1174  
www.olsosn.com



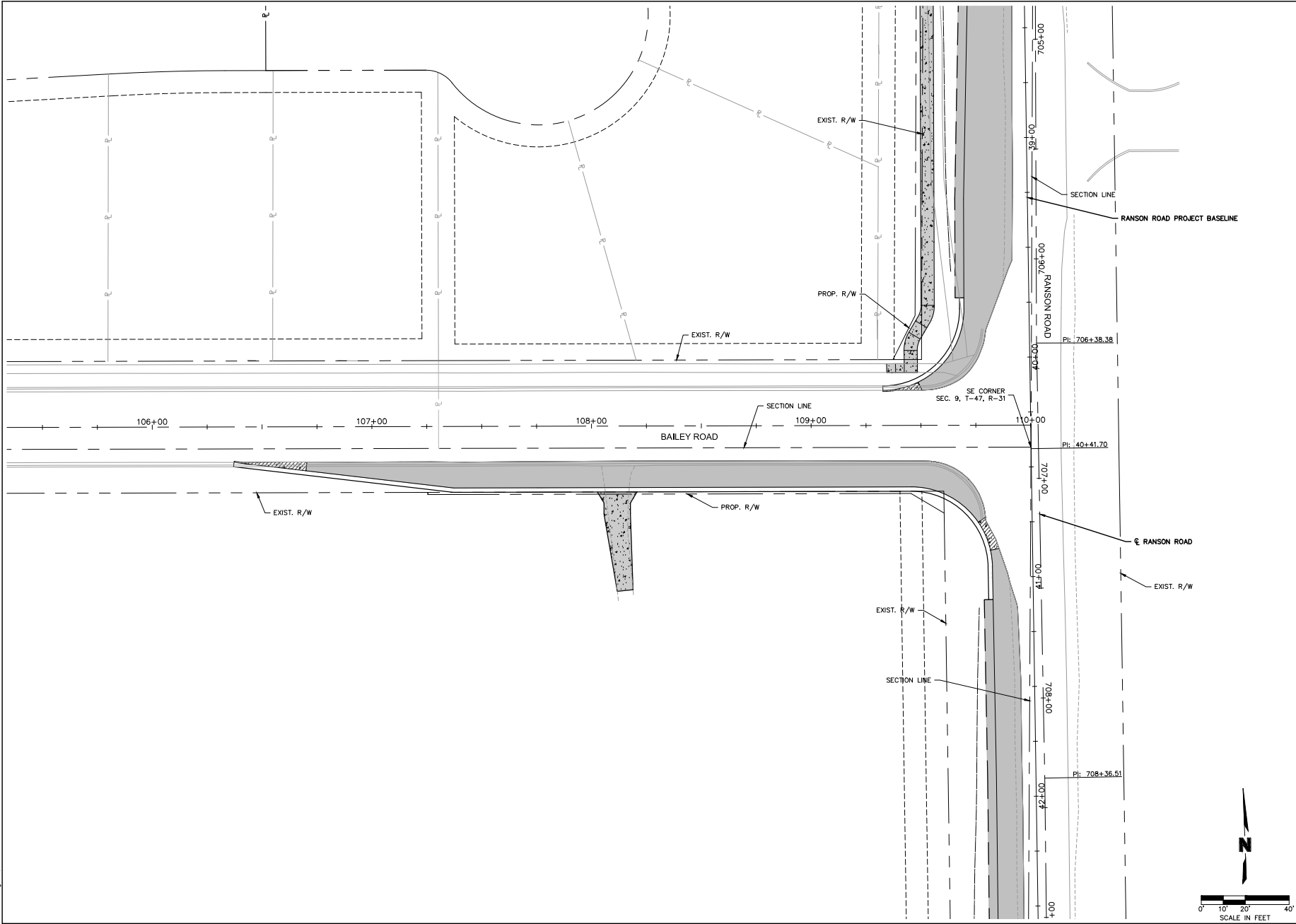
BY	RBF
DATE	08/29/2021
REV. NO.	1
REVISIONS DESCRIPTION	AS SHOWN

TITLE SHEET	2021
LEE'S SUMMIT MIDDLE SCHOOL #4	
RANSON ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.D.A. NO.	000582
DRAWN BY	MS/W
CHECKED BY	RBF
APPROVED BY	RBF
DATE	08/29/21
PROJECT NO.	00000000
DWG NO.	T101_MO_000103
DATE	2021-08-12

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 DATE: Aug 25, 2021 11:16am XREFS: T\_PBASE\_0200103 V\_XTOPG-2\_00103 T\_PPRATT\_0200103 USER: maller



Olsson Engineers, Inc. State Office: 401 North 7th Street, Suite 200 7381 West 133rd Street, Suite 200 Overland Park, KS 66213-4750    TEL: 913.381.1170    FAX: 913.381.1174    www.olsan.com	
<b>RYAN B. FLEMING</b> No. PE-000003161	
GENERAL LAYOUT LEE'S SUMMIT MIDDLE SCHOOL #4 RANSON ROAD PUBLIC IMPROVEMENTS	2021
C.O.A. NO. 001592 DRAWN BY: MS/W CHECKED BY: RBE APPROVED BY: RBE GAUC BY: RBE PROJECT NO. 00000103 DWG NO. T_LAYOUT_NO_0200103 DATE: 2021-01-28	
<b>SHEET</b> <b>2 OF 52</b>	



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 DATE: Aug 25, 2021 10:51am  
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 USER: mailer

**OLSSON CONTROL INFORMATION:**

Basis of coordinates shown herein are based on Missouri state plane coordinate system, West Zone, and scaled to ground coordinates utilizing a combined adjustment factor of 0.9999986, holding Jackson County GPS Control Point JN-45 as a base point. Distances shown herein are ground distances in US Survey Feet.

**MO DWG JA-45:**  
 KO Metro Aluminum GDS Disk set in concrete ±3" below pavement on shoulder of SE Ranson Rd. Stamped "JA-45".  
 N: 994930.346  
 E: 2834265.611  
 Elev: 1046.26'

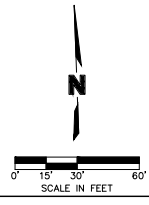
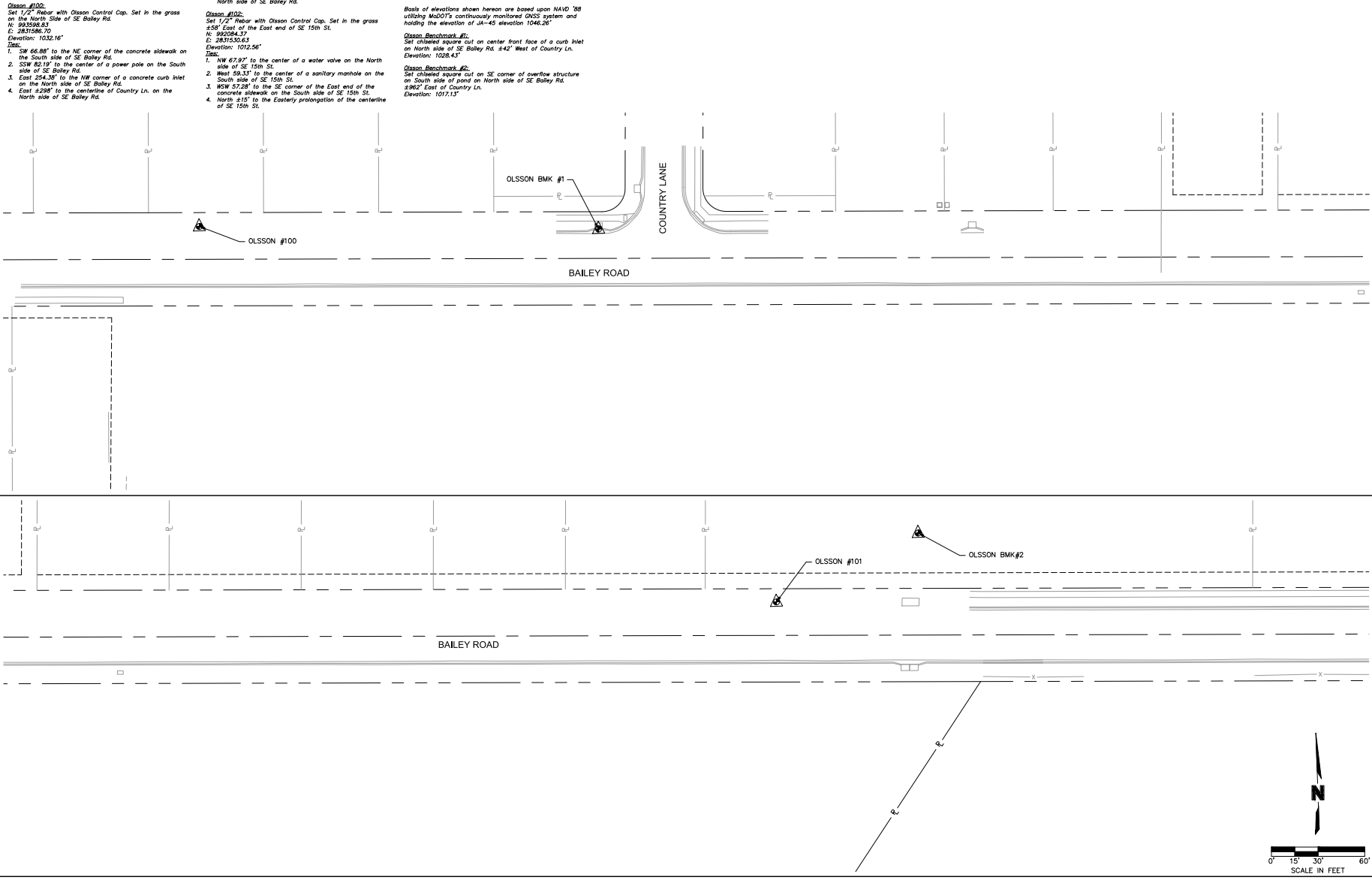
**Olsson #101:**  
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass on the North side of SE Bailey Rd.  
 N: 923561.11  
 E: 2832555.94  
 Elevation: 1014.26'  
**Tab:**  
 1. East 80.94' to the NW corner of a concrete curb inlet on the North side of SE Bailey Rd.  
 2. SE 61.52' to the SW corner of a concrete curb inlet on the South side of SE Bailey Rd.  
 3. NE 14.82' to the SE corner of a concrete overflow structure on the South side of a pond on the North side of SE Bailey Rd.  
 4. West ±871' to the centerline of Country Ln. on the North side of SE Bailey Rd.

**Olsson #102:**  
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass on the North side of SE Bailey Rd.  
 N: 923561.11  
 E: 2831586.71  
 Elevation: 1032.16'  
**Tab:**  
 1. SW 68.88' to the NE corner of the concrete sidewalk on the South side of SE Bailey Rd.  
 2. SSW 82.19' to the center of a power pole on the South side of SE Bailey Rd.  
 3. East 254.38' to the NW corner of a concrete curb inlet on the North side of SE Bailey Rd.  
 4. East ±238' to the centerline of Country Ln. on the North side of SE Bailey Rd.

**Olsson #103:**  
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass on the North side of SE Cape Dr.  
 N: 991253.72  
 E: 2831514.49  
 Elevation: 1000.43'  
**Tab:**  
 1. NW 76.12' to the center of a telephone pedestal on the North side of SE Cape Dr.  
 2. SW 67.00' to the center of a water valve on the South side of SE Cape Dr.  
 3. SW 70.00' to the SE corner of the East end of the concrete sidewalk on the South side of SE Cape Dr.  
 4. North ±4' to the Eastern prolongation of the centerline of SE Cape Dr.

**Olsson Benchmark #1:**  
 Set chiseled "x" cut on SSE flange bolt of fire hydrant in the NW quadrant of the intersection of SE 15th St. and SE Dutton Dr.  
 Elevation: 1016.37'

**Olsson Benchmark #2:**  
 Set chiseled square cut on edge of sidewalk of the West center of a curb inlet in the NW quadrant of the intersection of SE Cape Dr. and SE Dutton Dr.  
 Elevation: 999.24'



OLSSON

1600 E. Blue Springs Blvd., Suite 200, Blue Springs, MO 64015  
 7801 West 133rd Street, Suite 200, Overland Park, KS 66223-4750  
 TEL: 913.381.1170 FAX: 913.381.1174 www.olsson.com

RYAN B. FLEMING  
 MO. NO. PE-000003161

REV. NO.	REVISION DESCRIPTION	DATE

SURVEY CONTROL

LEE'S SUMMIT MIDDLE SCHOOL #4  
 RANSON ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

C.O.G. NO.	001592
DRAWN BY	MS/W
CHECKED BY	RBF
APPROVED BY	RBF
DATE	08/25/21
PROJECT NO.	020-0103
DWG NO.	SUR01_MO_0200103
DATE	2021-08-25

SHEET  
4 OF 52

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 USER: mailer

**OLSSON CONTROL INFORMATION:**  
 Basis of coordinates shown hereon are based on Missouri state plane coordinate system, West Zone, and scaled to ground coordinates utilizing a combined adjustment factor of 0.9999896, holding Jackson County GPS Control Point JA-45 as a base point. Distances shown hereon are ground distances in US Survey Feet.  
**MO DNR JA-45:**  
 KO Metro Aluminum GPS Disk set in concrete ±3" below pavement on shoulder of SE Ransom Rd. Stamped "JA-45".  
 N: 994930.346  
 E: 2634265.611  
 Elev: 1046.26'

**Olsson #101:**  
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass on the North side of SE Bailey Rd.  
 N: 993561.111  
 E: 2632755.584  
 Elevation: 1014.26'  
**Tab:**  
 1. East 80.94' to the NW corner of a concrete curb inlet on the North side of SE Bailey Rd.  
 2. SE 61.52' to the SW corner of a concrete curb inlet on the South side of SE Bailey Rd.  
 3. NE 14.82' to the SW corner of a concrete overflow structure on the South side of a pond on the North side of SE Bailey Rd.  
 4. West ±871' to the centerline of Country Ln. on the North side of SE Bailey Rd.

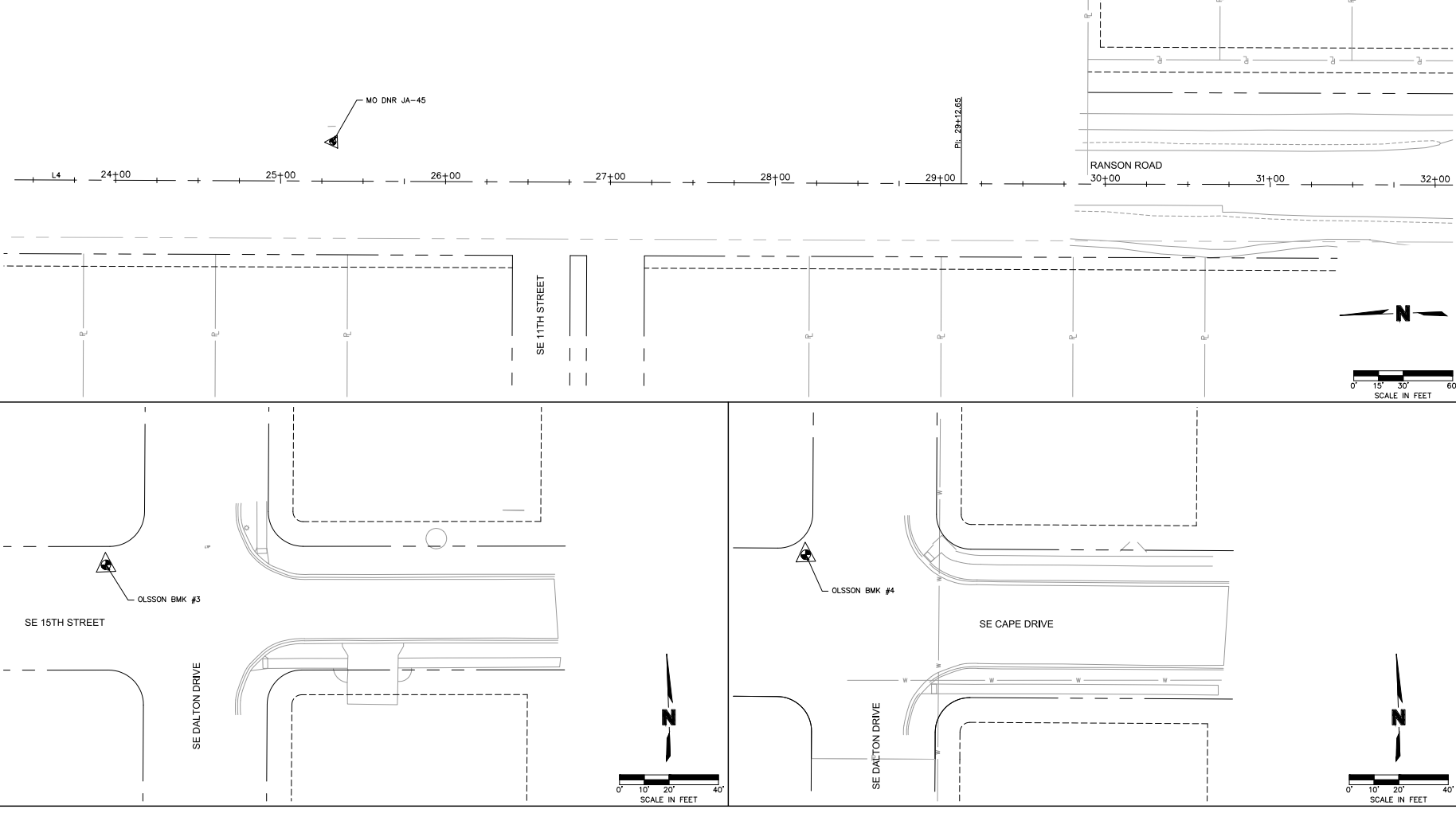
**Olsson #102:**  
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass on the North Side of SE Bailey Rd.  
 N: 993599.831  
 E: 2631286.71  
 Elevation: 1032.16'  
**Tab:**  
 1. SW 68.88' to the NE corner of the concrete sidewalk on the South side of SE Bailey Rd.  
 2. SSW 82.19' to the center of a power pole on the South side of SE Bailey Rd.  
 3. East 254.38' to the NW corner of a concrete curb inlet on the North side of SE Bailey Rd.  
 4. East ±238' to the centerline of Country Ln. on the North side of SE Bailey Rd.


**Olsson #103:**  
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass on the North side of SE Cape Dr.  
 N: 991253.72  
 E: 2631514.48  
 Elevation: 1000.43'  
**Tab:**  
 1. NW 76.12' to the center of a telephone pedestal on the North side of SE Cape Dr.  
 2. SW 67.00' to the center of a water valve on the South side of SE Cape Dr.  
 3. SW 70.00' to the SE corner of the East end of the concrete sidewalk on the South side of SE Cape Dr.  
 4. North ±4' to the Eastern prolongation of the centerline of SE Cape Dr.

**Olsson Benchmark #1:**  
 Set chiseled "x" cut on SSE flange bolt of fire hydrant in the NW quadrant of the intersection of SE 15th St. and SE Dalton Dr.  
 Elevation: 1016.27'  
**Olsson Benchmark #2:**  
 Set chiseled square cut on edge of sidewalk of the West center of a curb inlet in the NW quadrant of the intersection of SE Cape Dr. and SE Dalton Dr.  
 Elevation: 999.24'


**Olsson #104:**  
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass on the North Side of SE Bailey Rd.  
 N: 992084.37  
 E: 2631500.63  
 Elevation: 1012.26'  
**Tab:**  
 1. NW 67.97' to the center of a water valve on the North side of SE 15th St.  
 2. West 59.13' to the center of a sanitary manhole on the South side of SE 15th St.  
 3. NW 57.38' to the SE corner of the East end of the concrete sidewalk on the South side of SE 15th St.  
 4. North ±15' to the Eastern prolongation of the centerline of SE 15th St.

**Olsson Benchmark #3:**  
 Set chiseled "x" cut on SSE flange bolt of fire hydrant in the NW quadrant of the intersection of SE 15th St. and SE Dalton Dr.  
 Elevation: 1016.27'  
**Olsson Benchmark #4:**  
 Set chiseled square cut on edge of sidewalk of the West center of a curb inlet in the NW quadrant of the intersection of SE Cape Dr. and SE Dalton Dr.  
 Elevation: 999.24'





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 Cleveland Park, KS 66221-9150  
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 www.olson.com



RYAN B. FLEMING  
 MEMBER  
 PE-000003161  
 7-29-21

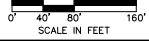
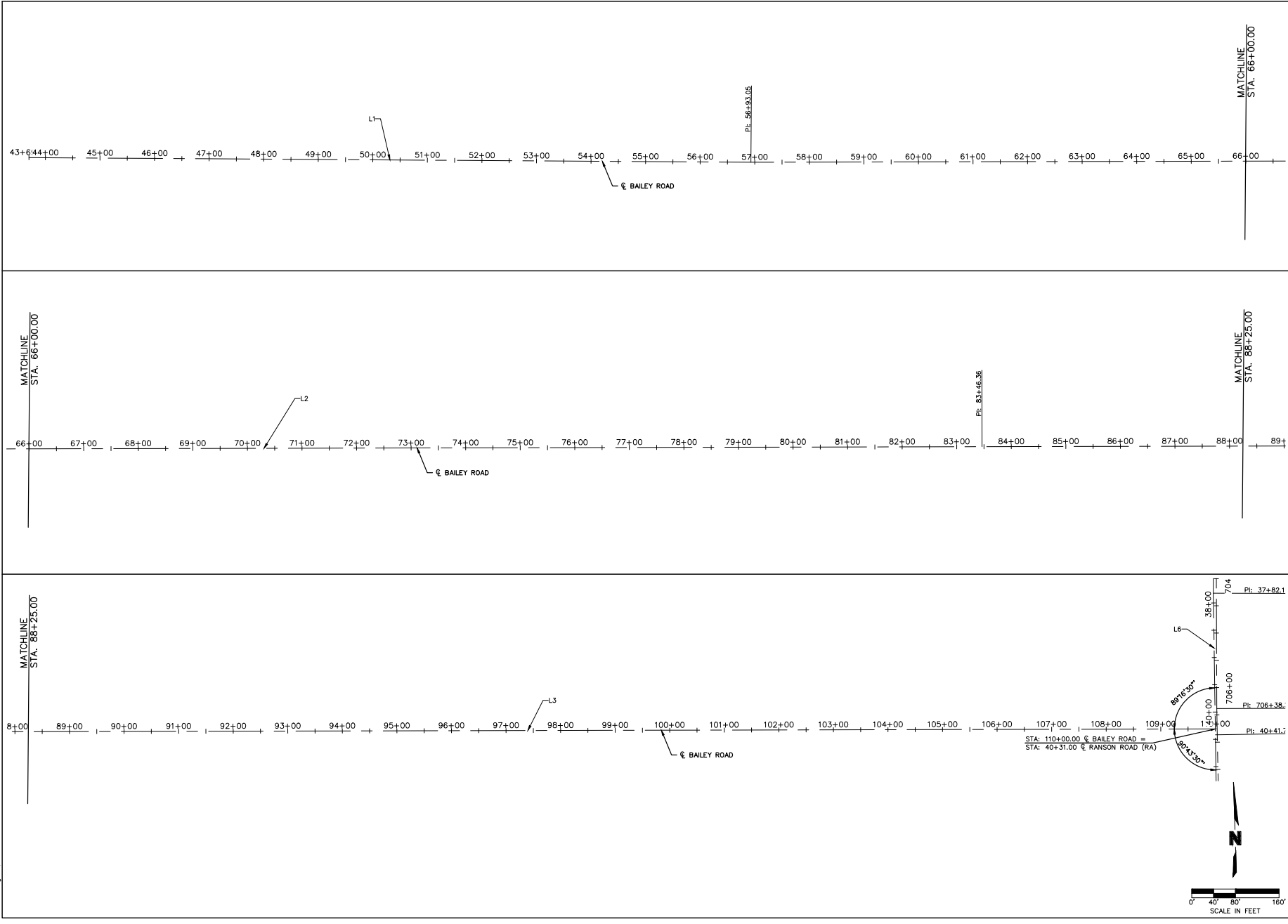
REV. NO.	DATE	REVISIONS DESCRIPTION

PROJECT: LEE'S SUMMIT MIDDLE SCHOOL #4  
 RANSOM ROAD PUBLIC IMPROVEMENTS  
 LEE'S SUMMIT, MISSOURI

DATE: 2021-09-28

SHEET 5 OF 52

DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\Mod07-Plans - (Ransom & Bailey)\GENERAL\T\_AUG1\_MO\_0200103.dwg USER: pmiller  
 DATE: Aug 25, 2021 10:59am XREFS: V\_T0P0\_0103 V\_XREF0-2\_00103 V\_XREF0-2\_00103 T\_P1R1R\_MO\_0200103



1500 E. Bismarck, 1st Floor, Oklahoma City, Oklahoma 73101-9992 7301 West 133rd Street, Suite 200, Oklahoma City, Oklahoma 73154-1170 Cleveland Park, KS 66213-4150 www.olsson.com	
RYAN B. FLEMING MO. NO. PE-0000003161	
REVISIONS DESCRIPTION BY DATE REV. NO.	REVISIONS
ALIGNMENT DATA LEE'S SUMMIT MIDDLE SCHOOL #4 RANSON ROAD PUBLIC IMPROVEMENTS LEE'S SUMMIT, MISSOURI	
C.D.A. NO. 001592 DRAWN BY MS/W CHECKED BY RBE APPROVED BY RBE GA/C BY RBE PROJECT NO. 0000003 DWG NO. T_AUG1_MO_0200103 DATE: 2021-08-28	
SHEET 6 OF 52	







DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DBBR\Mod007\_Plans - (Ransom & Bailey)\GENERAL\GEN01\_MO\_0200103.dwg  
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 USER: maller  
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GENERAL NOTES FOR MOD07

1) ALL WORK WITHIN THE MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT) RIGHT-OF-WAY SHALL CONFORM TO MODOT GUIDELINES AND SPECIFICATIONS.

GENERAL NOTES FOR CAPITAL IMPROVEMENTS PROJECTS  
 (REV. FEBRUARY 10, 2010)

- 1) PRELIMINARY INFORMATION:
- a) CONSULT PARAGRAPH 6.12 OF THE EJCDC GENERAL CONDITIONS (C-700) FOR A COMPLETE LIST OF RECORD DOCUMENTS THAT THE CONTRACTOR SHALL MAINTAIN ON SITE.
  - b) PERMITS REQUIRED FOR THE WORK CAN BE FOUND IN SECTION 1010 OF THE GENERAL REQUIREMENTS (DIVISION 1).
  - c) CONSTRUCTION OF THE WORK SHOWN OR IMPLIED BY THIS SET OF DRAWINGS SHALL NOT BE INITIATED UNLESS ALL PRELIMINARY CONTRACT OBLIGATIONS ARE MET, AND THE OWNER IS NOTIFIED OF THE INTENT TO START THE WORK. SEE SECTION 1020 OF DIVISION 1.
  - d) ALL WORK SHALL BE CONFINED WITHIN THE CONSTRUCTION LIMITS OR AS OTHERWISE DIRECTED BY THE OWNER.
  - e) ANY WORK PERFORMED PRIOR TO ENGINEER'S REVIEW AND APPROVAL OF THE PERTINENT SUBMITTAL WILL BE AT THE SOLE EXPENSE AND RESPONSIBILITY OF CONTRACTOR. SUBMITTAL PROCEDURES AND REQUIREMENTS CAN BE FOUND IN PARAGRAPH 6.17 OF C-700 AND SECTIONS 1115 AND 1116 OF DIVISION 1.
  - f) OWNER IS DEFINED AS THE CITY OF LEE'S SUMMIT.
- 2) COORDINATION AND NOTIFICATIONS:
- a) ANY TIME REFERENCES LISTED IN PARAGRAPH 2 ARE TYPICAL TIMELINES. CONSULT SECTION 1105 OF DIVISION 1 FOR PROJECT SPECIFIC TIMELINES, COORDINATION AND NOTIFICATION PROCESSES.
  - b) PRIOR TO ANY STREET CLOSURES, APPROPRIATE NOTIFICATIONS WILL BE DISTRIBUTED. THE CLOSURES OF ARTERIAL AND COLLECTOR STREETS WILL TYPICALLY CAUSE THE OWNER TO GENERATE A PRESS RELEASE AND DETOUR MAP. THIS IS TYPICALLY 14 CALENDAR DAYS.
  - c) THE REMOVAL OF TREES, SHEDS, FENCING OR OTHER ITEMS ON PRIVATE PROPERTY NOT OTHERWISE SHOWN ON THESE PLANS, ARE NOT AUTHORIZED ON THIS PROJECT. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF ANY SUCH WORK IS PROPOSED. THE OWNER REQUIRES AT LEAST 14 CALENDAR DAYS TO NOTIFY PROPERTY OWNER RESIDENT, IN ORDER TO GIVE THEM OPPORTUNITY TO SALVAGE THESE ITEMS.
  - d) PRIOR TO DRIVEWAY DEMOLITION AND RECONSTRUCTION, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE PROPERTY OWNER OR RESIDENT. THIS IS TYPICALLY 2 WORKING DAYS.
  - e) PRIOR TO SHUTTING DOWN A WATER MAIN, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE PROPERTY OWNER OR RESIDENT. THIS IS TYPICALLY 2 WORKING DAYS.
  - f) CONTRACTOR SHALL NOT BE ALLOWED TO WORK WEEKENDS OR HOLIDAYS WITHOUT REQUESTING PRIOR APPROVAL FROM OWNER THREE WORKING DAYS IN ADVANCE.
  - g) BY ORDINANCE 17-42, WORKING HOURS WITHIN THE CITY OF LEE'S SUMMIT ARE 7:00 A.M. TO 10:00 P.M. REQUESTS TO WORK BEYOND THESE HOURS MUST BE FILED WITH THE OWNER ONE WEEK IN ADVANCE.
- 3) SURVEY:
- a) IN ACCORDANCE WITH PARAGRAPH 4.05 OF C-700, OWNER OR ENGINEER SHALL PROVIDE ENGINEERING SURVEYS TO ESTABLISH REFERENCE POINTS FOR CONSTRUCTION WHICH IN THEIR JUDGMENT ARE NECESSARY TO ENABLE CONTRACTOR TO PERFORM THE WORK. CONTRACTOR IS RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL SET THOSE STAKES NECESSARY TO CONSTRUCT THIS PROJECT. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK, UNLESS LISTED IN THE BID TAB.
  - b) IN ACCORDANCE WITH PARAGRAPH 4.05 OF C-700, CONTRACTOR SHALL RESET ANY PERMANENT REFERENCE POINTS, PROPERTY CORNERS AND PROPERTY MONUMENTS THAT ARE DISTURBED DURING CONSTRUCTION. THESE POINTS AND MONUMENTS SHALL BE RESET BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH STATE LAW. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK.
- 4) UNDERGROUND FACILITIES:
- a) INFORMATION REGARDING UNDERGROUND FACILITIES IS APPROXIMATE AND WAS COMPILED USING INFORMATION PROVIDED BY THE FACILITY OWNER. CONSULT PARAGRAPH 4.04 OF C-700 FOR FURTHER INFORMATION.
  - b) UNLESS BORED, ALL UNDERGROUND UTILITIES (INCLUDING THE CONTRACTOR'S WORK) THAT CROSS UNDER PROPOSED STREET PAVEMENTS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT.

- 5) WATER, STORM & SANITARY SEWER:
- a) WATER CAN BE PURCHASED FROM THE CITY'S WATER UTILITIES DEPARTMENT.
  - b) ALL MANHOLES, VALVE LIDS, METER LIDS, FIRE HYDRANTS AND AIR RELIEF ASSEMBLIES WITHIN THE CONSTRUCTION LIMITS SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS. ALL VALVE RISERS IN PAVEMENT (WHETHER ADJUSTED, REPLACED OR PLACED) SHALL BE CAST IRON AND CONFORM TO THE SPECIFICATIONS. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK, UNLESS LISTED IN THE BID TAB.
  - c) CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE FLOWS AROUND EACH SEGMENT OF PIPE THAT IS TO BE REPLACED OR REBURIED. CONTRACTOR SHALL HAVE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE WORK ON THE PIPE SEGMENT PRIOR TO ISOLATING THE SEWER SEGMENT AND BEGINNING BYPASS PUMPING OPERATIONS. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK, UNLESS LISTED IN THE BID TAB.
- 6) ENVIRONMENTAL & SAFETY:
- a) CONTRACTOR SHALL USE ADEQUATE DUST CONTROL MEASURES DURING ALL PHASES OF THE WORK. CONSULT SECTION 1145 IN DIVISION 1.
  - b) SILTATION AND EROSION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL SYSTEMS, REPLACING DAMAGED OR FAILED EROSION CONTROL DEVICES AND INSPECTING THE SITE IN ORDER TO REPAIR THE EROSION CONTROL SYSTEMS WITHIN 24 HOURS AFTER A SIGNIFICATION RAIN EVENT. GRADING ADJACENT TO PAVEMENTS SHALL BE LEFT THREE INCHES BELOW THE TOP OF PAVEMENT UNTIL IMMEDIATELY BEFORE SOO OR SEED IS PLACED. EROSION AND SEDIMENT CONTROL MUST BE IN PLACE PRIOR TO THE DISTURBANCE OF THE GROUND. FIELD ADJUSTMENTS TO EROSION AND SEDIMENT CONTROL MAY BE REQUIRED DEPENDING ON THE SITE CONDITION.
  - c) UNLESS WAIVED IN SECTION 1010, CONTRACTOR SHALL MAINTAIN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON SITE IN ACCORDANCE WITH DNR REGULATIONS.
  - d) PROJECT MAINTENANCE INFORMATION CAN BE FOUND IN SECTION 1145 OF DIVISION 1.
- 7) GRADING, REMOVALS & DAMAGED ITEMS:
- a) INFORMATION ON SALVAGED MATERIAL CAN BE FOUND IN SECTION 1150 OF DIVISION 1.
  - b) NO BURNING IS ALLOWED ON THE SITE.
  - c) DRIVEWAYS, PARKING LOTS, SIDEWALKS, FENCES, IRRIGATION SYSTEMS AND OTHER ITEMS DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING BEFORE DAMAGE OCCURRED. UNLESS WAIVED BY OWNER, ALL ITEMS REQUIRING REPLACEMENT SHALL BE REPLACED WITH NEW MATERIALS, AND ALL MATERIALS ARE SUBJECT TO OWNER'S APPROVAL. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK, UNLESS LISTED IN THE BID TAB.
  - d) ALL FENCE REPLACEMENT SHOULD BE RELOCATED TO THE PROPERTY LINES, UNLESS THE EXISTING FENCE WAS LOCATED INSIDE OF THE PROPERTY LINES. FENCE INSIDE OF PROPERTY LINES SHOULD BE PLACED IN ITS ORIGINAL LOCATION. GATES AND FENCE CORNERS SHALL BE RE-ESTABLISHED AT THE ORIGINAL LOCATIONS, UNLESS INDICATED BY THE DRAWINGS. REMOVALS SHALL BE AS SHOWN ON THE DRAWINGS OR AS APPROVED BY OWNER. REMOVALS NOT APPROVED BY OWNER WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
  - e) ROOF DRAINS, UNDER DRAINS, SEPTIC LINES AND OTHER SMALL DRAINAGE LINES NOT SHOWN ON THE DRAWINGS THAT ARE UNCOVERED OR DAMAGED SHALL BE REPAIRED, AND THE POINT OF DISCHARGE SHALL BE PLACED NO CLOSER THAN FIVE FEET TO ANY ADJOINING PROPERTY LINE INCLUDING THE RIGHT-OF-WAY LINE (SECTION 16-413 OF THE CODE OF ORDINANCES). UNLESS DIRECTED BY THE CITY ENGINEER, NO DRAIN LINES SHALL BE CONNECTED TO THE STORM SEWER SYSTEM. MATERIALS AND LOCATION ARE SUBJECT TO OWNER'S APPROVAL. IF NO UNIT PRICE IS IN THE BID, THEN PAYMENT WILL BE NEGOTIATED PER THE CONTRACT DOCUMENTS.
  - f) MATERIALS THAT MAY BE CLASSIFIED AS UNSUITABLE OR REQUIRE UNDERGRADING SHALL BE DETERMINED BY THE OWNER OR THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL NOT MAKE THIS DETERMINATION.
  - g) ALL WASTE MATERIAL SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALL MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE. SAWCUTTING SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
- 8) TRAFFIC:
- a) UNLESS DIRECTED IN THE CONTRACT DOCUMENTS OR DRAWINGS, CONTRACTOR SHALL MAINTAIN TRAFFIC AND PEDESTRIAN ACCESS AT ALL TIMES.
  - b) APPROPRIATE TRAFFIC CONTROL DEVICES, SIGNAGE AND PAVEMENT MARKINGS SHALL BE ESTABLISHED AND MAINTAINED THROUGHOUT THE PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE MUTCD.

- ADDITIONAL GENERAL NOTES:
- 1) ALL TREES TO BE GRUBBED ARE MARKED THUS "X". SPARE ALL TREES THAT ARE MARKED DND (DO NOT DISTURB) OR ANY TREES NOT MARKED AT ALL. EXCEPTIONALLY GOOD TREES SHALL BE SPARED BY ADJUSTING BACKSLOPE LINES DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ALL TREES WITHIN THE CONSTRUCTION LIMITS TO BE SAVED SHALL HAVE THEIR TRUNKS AND ROOT ZONE PHYSICALLY PROTECTED PRIOR TO CONSTRUCTION OPERATIONS BY METHODS APPROVED BY THE ENGINEER.
  - 2) THE CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION OF ANY PORTION OF THE STORM SEWER, UNDERDRAINS, CONDUIT, AND ANY OTHER SUBSURFACE ELEMENTS OF THE PROJECT. THIS SURVEY INFORMATION SHALL BE FORWARDED TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION ON ANY SUBSURFACE ELEMENT ON THE PROJECT WITHOUT THE APPROVAL OF THE ENGINEER. THIS ITEM SHALL BE SUBSIDIARY TO OTHER BID ITEMS.

GENERAL NOTES

LEE 'S SUMMIT MIDDLE SCHOOL #4  
 RANSON ROAD PUBLIC IMPROVEMENTS  
 LEE'S SUMMIT, MISSOURI

C.I.A. NO. 00592  
 DRAWN BY: MS/W  
 CHECKED BY: RBE  
 APPROVED BY: RBE  
 GAUC BY: RBE  
 PROJECT NO. 05000103  
 DWG NO. GEN01\_MO\_0200103  
 DATE: 2021-08-12

2021

REVISIONS

NO.	DATE	DESCRIPTION
1	08/25/2021	ISS. #28

BY: RFL

MO. NO. PE-20200203161

RYAN B. FLEMING  
 PE-000000161  
 7-29-21

STATE OF MISSOURI  
 PUBLIC ENGINEER

olsson

1600 Blue Bell Court, Suite 1000, Blue Bell, PA 19380  
 7200 West 131st Street, Suite 200, Overland Park, KS 66211-1174  
 TEL: 610.381.1170  
 FAX: 913.381.1174  
 www.olsson.com

DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\RD&R\MODOT\Plans - (Ranson & Bailey)\GENERAL\T\_QTY01\_MO\_020103.dwg  
 DATE: Nov 09, 2021 4:04pm  
 XREFS: T\_FTBLKMO\_020103

USER: mhaier

RECAPITULATION OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
1	Mobilization	Lump Sum	1
2	Clearing and Grubbing	Lump Sum	1
3	Demolition and Removal	Lump Sum	1
4	Pavement, Asphaltic Surface (APWA Type 5-01) (2")	Sq. Yd.	1,318
5	Pavement, Asphaltic Surface (APWA Type 3-01) (2")	Sq. Yd.	392
6	Pavement, Asphaltic HMA (Type A3 Shoulder) (3 3/4")	Sq. Yd.	467
7	Pavement, Asphaltic Base (APWA RC Type 5-01) (10")	Sq. Yd.	1,332
8	Pavement, Asphaltic Base (APWA RC Type 1-01) (10")	Sq. Yd.	488
9	Pavement, Concrete Base Widening	Sq. Yd.	37
10	Aggregate Base (MoDOT Type 5) (4")	Sq. Yd.	323
11	Aggregate Base (MoDOT Type 5) (6")	Sq. Yd.	2,324
12	Aggregate Base (MoDOT Type 5) (12")	Sq. Yd.	0
13	Geogrid (Tensor TX140)	Sq. Yd.	1,857
14	Curb & Gutter (Type CG-1)	Lin. Ft.	439
15	Concrete Driveway (6")	Sq. Yd.	80
16	Sidewalk (4")	Sq. Yd.	243
17	12" Storm Sewer (RCP Class III)	Lin. Ft.	19
18	12" Flared End Section	Each	2
19	Erosion Control Devices	Lump Sum	1
20	Traffic signal Installation (Bailey & Ranson)	Lump Sum	1
21	Temporary Traffic Control	Lump Sum	1
22	Permanent Pavement Marking and Signing	Lump Sum	1

RECAPITULATION OF QUANTITIES

LEE 'S SUMMIT MIDDLE SCHOOL #4  
RANSON ROAD PUBLIC IMPROVEMENTS

LEE 'S SUMMIT, MISSOURI

2021

REVISIONS

REV. NO.	DATE	DESCRIPTION	BY
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2	10/26/2021	ASB #57	RFB



RYAN B. FLEMING  
NO. NO. PE-200003161

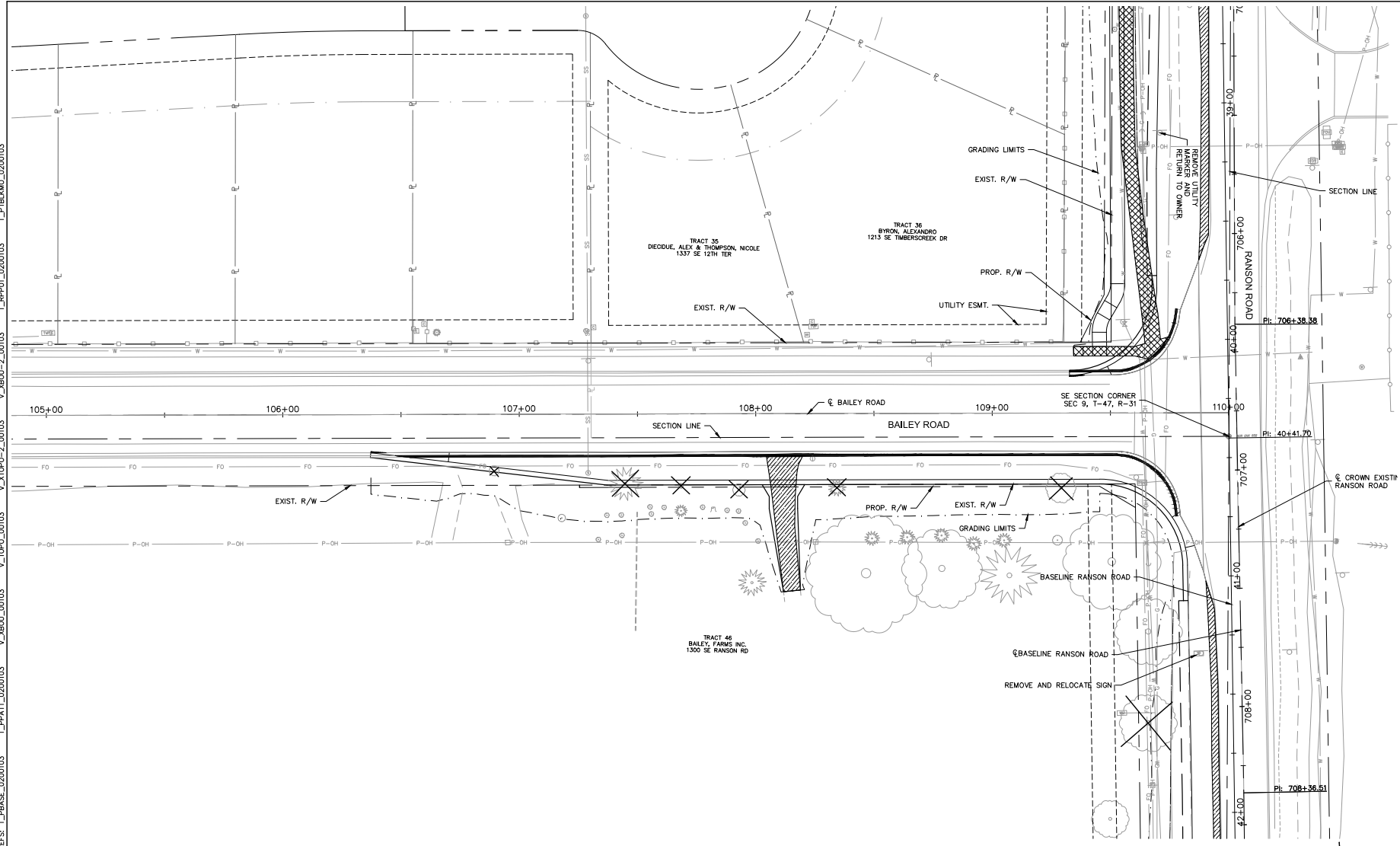


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 7281 Woodlark Street, Suite 200  
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 www.olsan.com

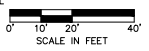
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 T\_PFBKMC\_0200103



NOTE:  
 1. THESE DEMOLITION PLANS ARE THE ENGINEER'S BEST EFFORT TO IDENTIFY ALL ITEMS TO BE REMOVED. ADDITIONAL ITEMS FOUND DURING CONSTRUCTION WILL BE CONSIDERED SUBSIDIARY TO THE BID ITEM "DEMOLITION AND REMOVAL"  
 2. THE CONTRACTOR SHALL MAINTAIN AND RELOCATE MAILBOXES AS REQUIRED FOR CONSTRUCTION ACTIVITIES. ALL ACTIVITY RELATED TO MAILBOX RELOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE US POSTAL SERVICE. MAILBOXES THAT REQUIRE REMOVAL AND TEMPORARY RELOCATION SHALL BE REPLACED WITH NEW MAILBOXES FOR THEIR PERMANENT LOCATION AT THE END OF CONSTRUCTION. NEW MAILBOXES SHALL BE AS GOOD OR BETTER QUALITY THAN EXISTING. THIS ITEM IS SUBSIDIARY TO OTHER ITEMS OF WORK.

- FULL DEPTH ASPHALT PAVEMENT REMOVAL
- FULL DEPTH GRAVEL REMOVAL
- CONCRETE SIDEWALK REMOVAL
- CURB REMOVAL
- STORM REMOVAL
- TREE REMOVAL
- HEDGE TREE REMOVAL
- SAWCUT
- GRADING LIMITS



<b>olsson</b>	
1600 E. Empowerment, 1st Floor, Overland Park, Kansas, 66202-1892 7381 West 133rd Street, Suite 200 Overland Park, KS 66213-4750    TEL: 913.381.1170    FAX: 913.381.1174    www.olsan.com	
<b>RYAN B. FLEMING</b> MO. NO. PE-2002003161	
BY: _____ REVISIONS DESCRIPTION: _____ DATE: _____ REV. NO.: _____	<b>REVISIONS</b> 2021
<b>DEMOLITION &amp; REMOVALS</b> <b>LEE'S SUMMIT MIDDLE SCHOOL #4</b> <b>RANSON ROAD PUBLIC IMPROVEMENTS</b> <b>LEE'S SUMMIT, MISSOURI</b>	
C.O.A. NO.: 001592 DRAWN BY: MS/W CHECKED BY: RBE APPROVED BY: RBE QA/QC BY: RBE PROJECT NO.: 0200103 DWG. NO.: DEMO1_MO_0200103 DATE: 2021-04-12	
<b>SHEET</b> <b>11 OF 52</b>	



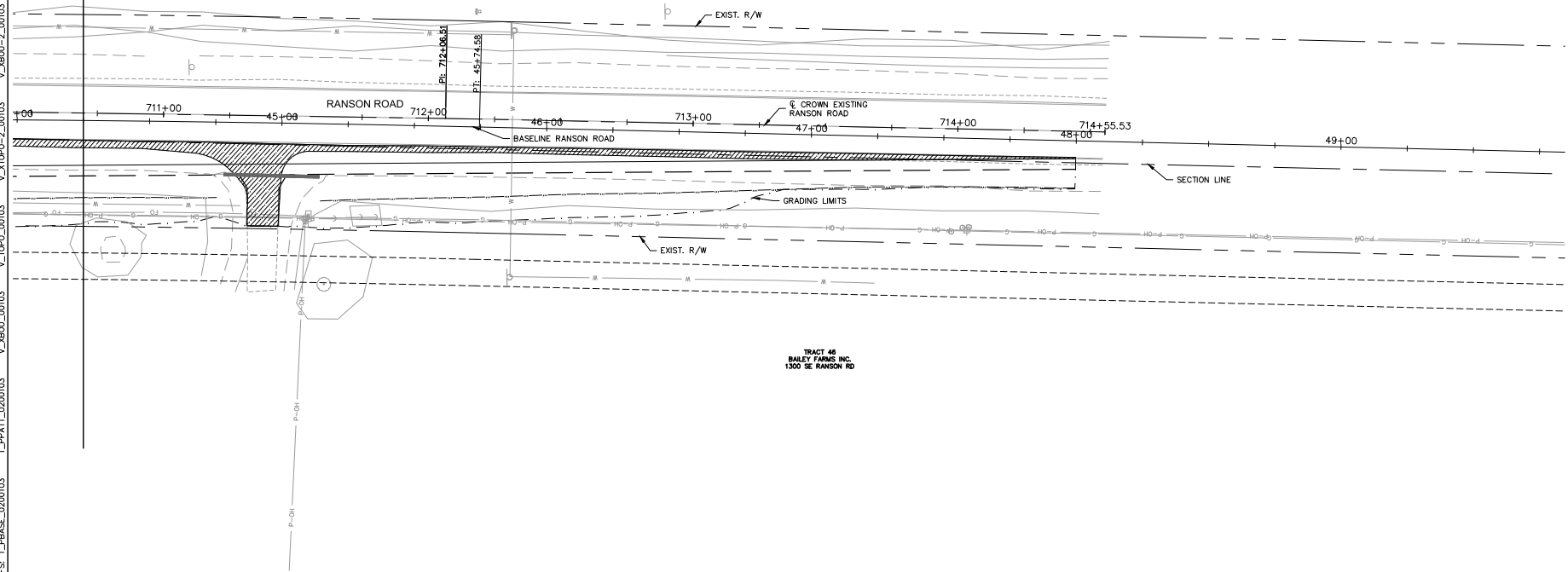


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MATCHLINE  
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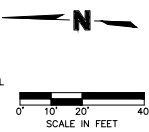
TRACT 45  
 CONSERVATION COMMISSION OF MO

TRACT 46  
 BAILEY FARMS INC.  
 1300 SE RANSON RD



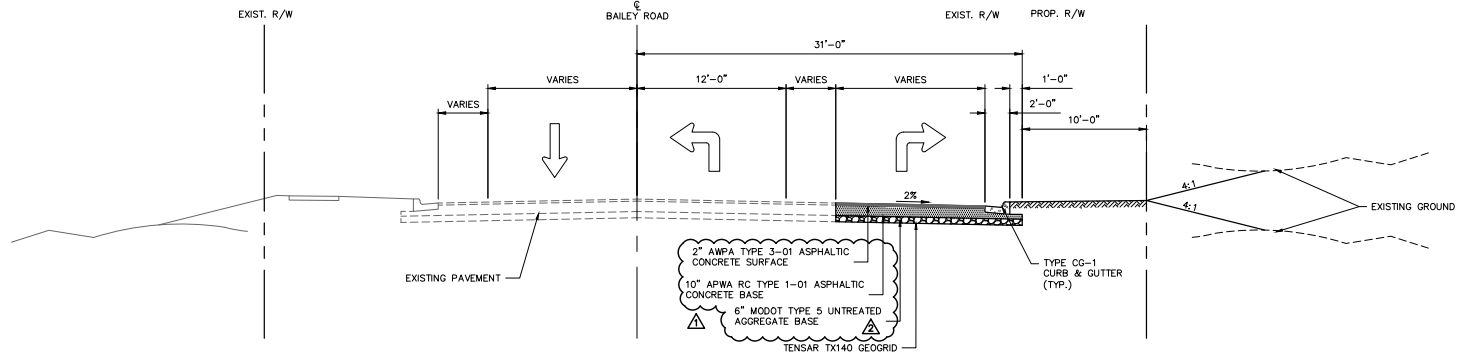
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- FULL DEPTH ASPHALT PAVEMENT REMOVAL
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- CURB REMOVAL
- STORM REMOVAL
- TREE REMOVAL
- HEDGE TREE REMOVAL
- SAWCUT
- GRADING LIMITS

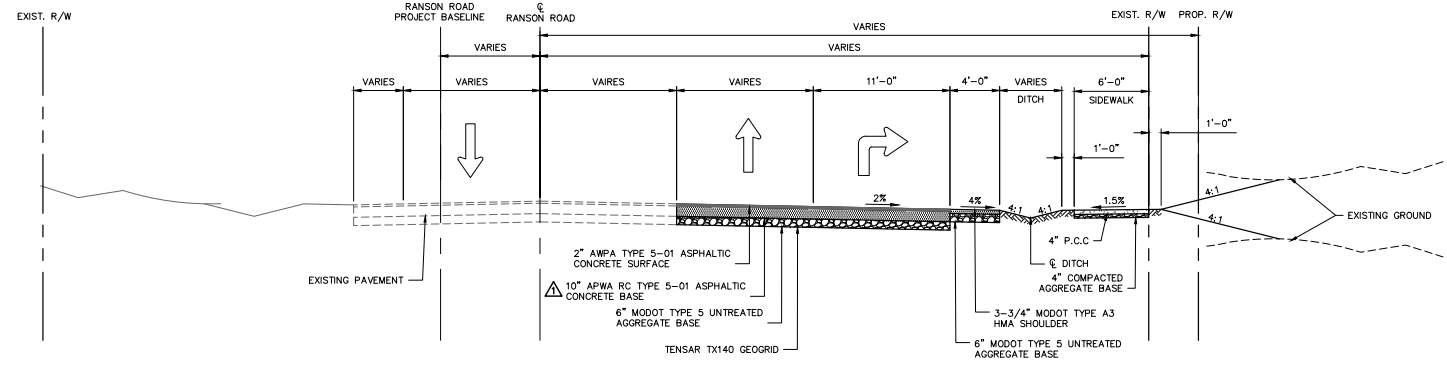


 1600 E. Bluebonnet, 1st Floor, Overland Park, KS 66202 7381 West 133rd Street, Suite 200, Overland Park, KS 66213-4750 TEL: 913.381.1170 FAX: 913.381.1174 www.olsson.com			RYAN B. FLEMING NO. PE-0000033161
			BY: _____ REVISIONS DESCRIPTION: _____ DATE: _____ REV. NO.: _____
DEMOLITION & REMOVALS LEE'S SUMMIT MIDDLE SCHOOL #4 RANSON ROAD PUBLIC IMPROVEMENTS LEE'S SUMMIT, MISSOURI		2021	SHEET 14 OF 52

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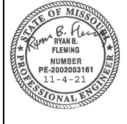
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 STA. 107+37.04 TO STA. 109+45.43



**TYPICAL SECTION  
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 NOT TO SCALE  
 STA. 39+27.47 TO STA. 39+72.55



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 7281 West 133rd Street, Suite 200  
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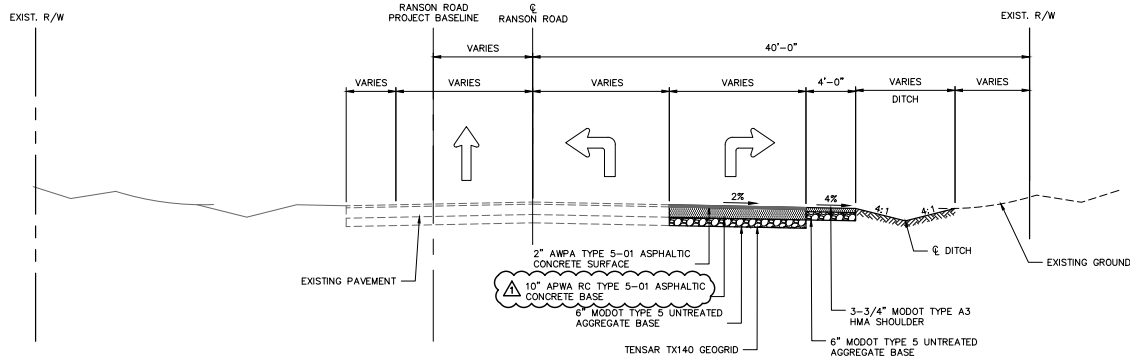


RYAN B. FLEMING MO. NO. PE-200003161	
BY	RBF
DATE	09/29/2021
REV. NO.	1
REVISIONS DESCRIPTION	AS SHOWN
	2
	AS SHOWN

TYPICAL SECTIONS	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 RANSON ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.D.A. NO.	001592
DRAWN BY	MS/W
CHECKED BY	RBF
APPROVED BY	RBF
DATE	09/29/2021
PROJECT NO.	09060010
DWG NO.	11201_NO_0200103
DATE	2021-04-12

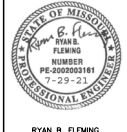
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**TYPICAL SECTION**  
**RANSON ROAD**  
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 STA. 41+10.16 TO STA. 43+04.65



Olsson Engineering, Inc. State Office: 4600 N. Lincoln, #201, 650182  
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 Cleveland Park, KS 66213-4150 TEL: 913.381.1170  
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RYAN B. FLEMING  
 NO. PE-2002003161

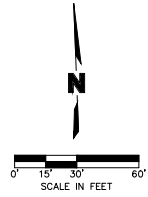
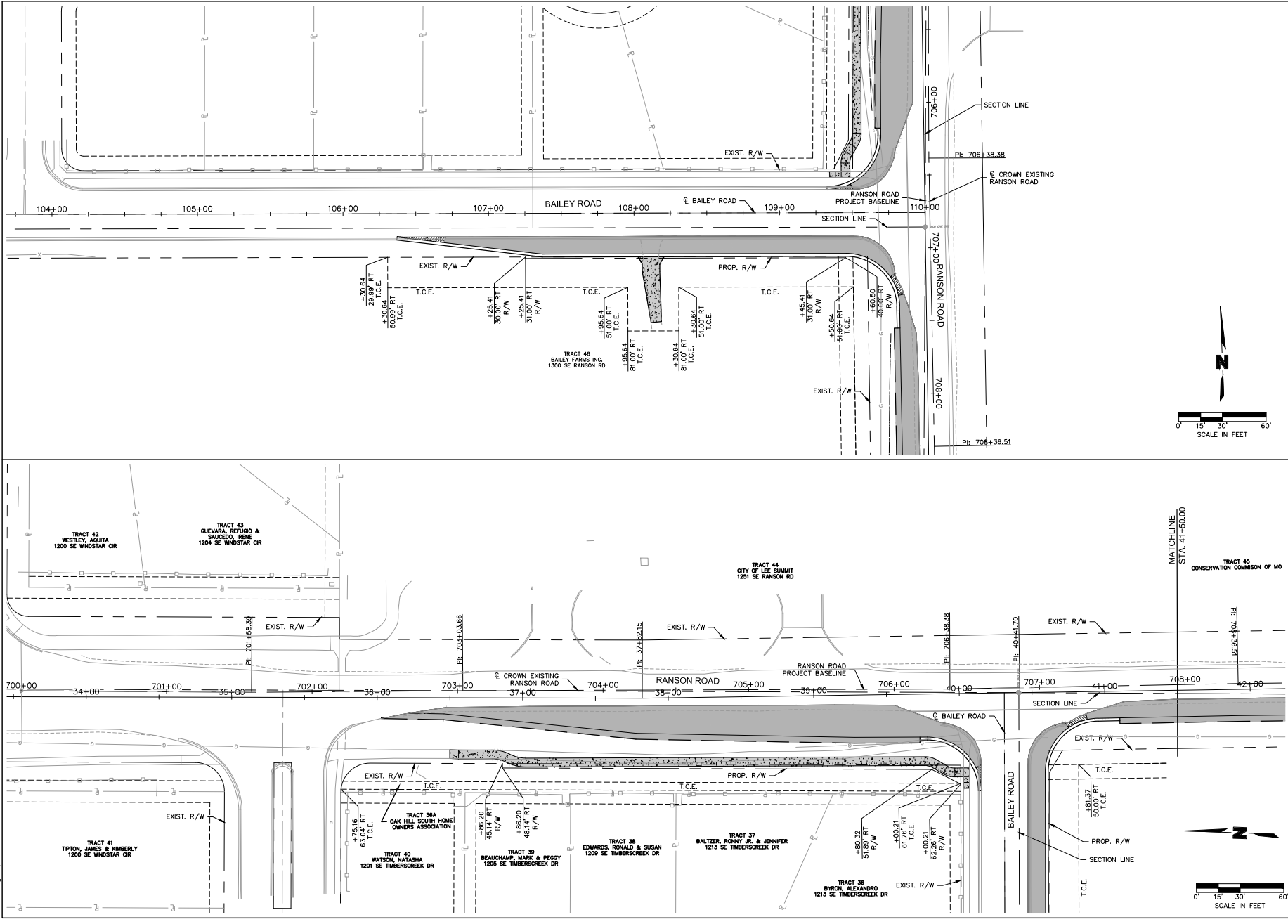
REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	AS #2	BFL

TYPICAL SECTIONS	REVISIONS
LEE'S SUMMIT MIDDLE SCHOOL #4 RANSON ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2021

C.D.A. NO. 001592  
 DRAWN BY MS/W  
 CHECKED BY BFL  
 APPROVED BY BFL  
 QA/QC BY BFL  
 PROJECT NO. 0060103  
 DWG NO. 1 TPO1\_NO\_0200103  
 DATE: 2021-08-12



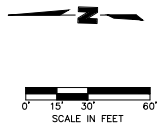
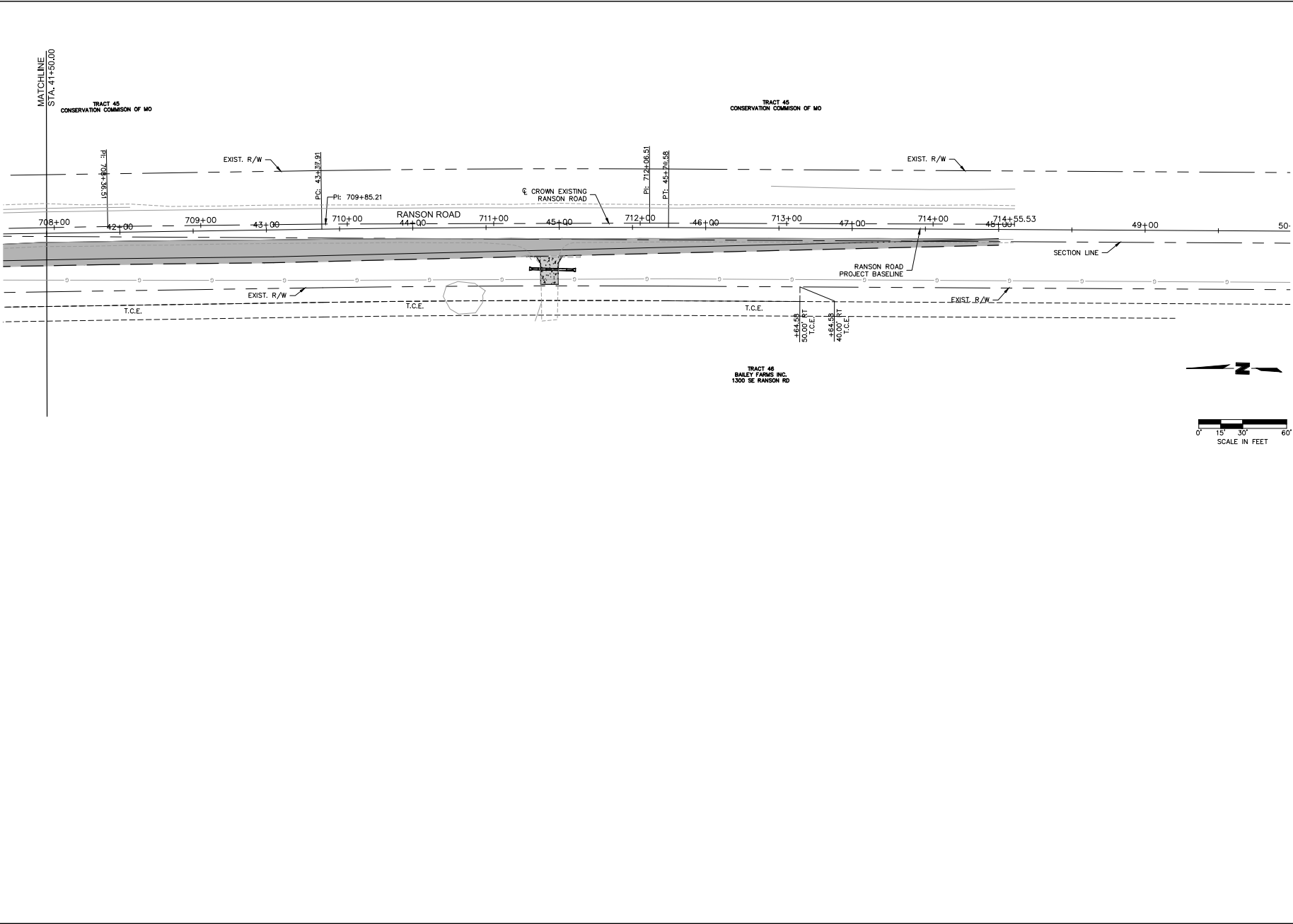
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RYAN B. FLEMING MO. NO. PE-000003161	
BY	
REVISIONS DESCRIPTION	
DATE	
REV. NO.	
RIGHT OF WAY PLANS SE BAILEY ROAD LEE'S SUMMIT MIDDLE SCHOOL #4 RANSON ROAD PUBLIC IMPROVEMENTS LEE'S SUMMIT, MISSOURI	
SHEET 17 OF 52	
G.S.A. NO. 001582 DRAWN BY: MS/W CHECKED BY: JBF APPROVED BY: JBF GAUC BY: JBF PROJECT NO. 00000103 DRAWING NO. MDDOT_0200103 DATE: 08/25/21	

Olsson  
 1600 E. Eisenhower, 1100 State Center, Overland Park, KS 66202  
 7200 West 133rd Street, Suite 200, Overland Park, KS 66209  
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 FAX: 913.381.1174  
 www.olsan.com

DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\McDOT\_Plan - (Ranson & Bailey)\V.C.W AND EASEMENT PLANS\T\_ROW1\_MDOT\_0200103.dwg USER: mallic  
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RYAN B. FLEMING NO. NO. PE-000003161 BY:	
REVISIONS DESCRIPTION DATE REV. NO.	REVISIONS 2021
RIGHT OF WAY PLANS SE BAILLEY ROAD LEE'S SUMMIT MIDDLE SCHOOL #4 RANSON ROAD PUBLIC IMPROVEMENTS LEE'S SUMMIT, MISSOURI	
C.O.A. NO. 001592 DRAWN BY MSW CHECKED BY RBE APPROVED BY RBE PROJECT NO. 00000103 DWG NO. 0200103 DATE: 2021-07-18	
SHEET 18 OF 52	

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 7281 West 133rd Street, Suite 200  
 Overland Park, KS 66213-4750  
 TEL: 913.381.1170  
 FAX: 913.381.1174  
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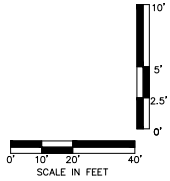
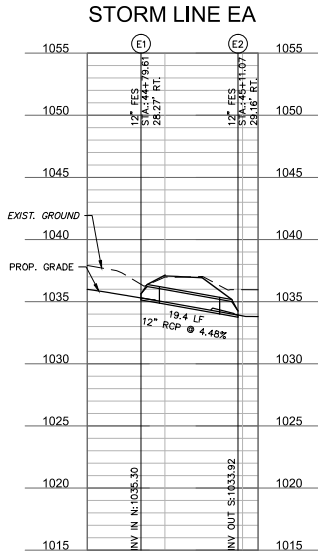
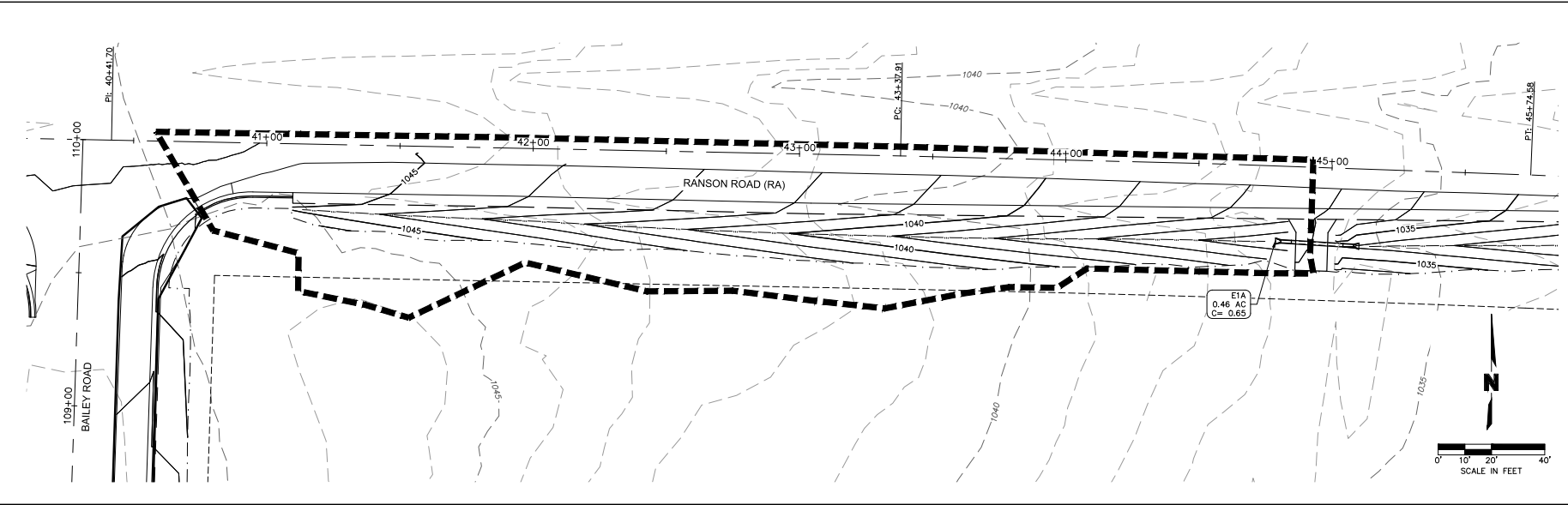






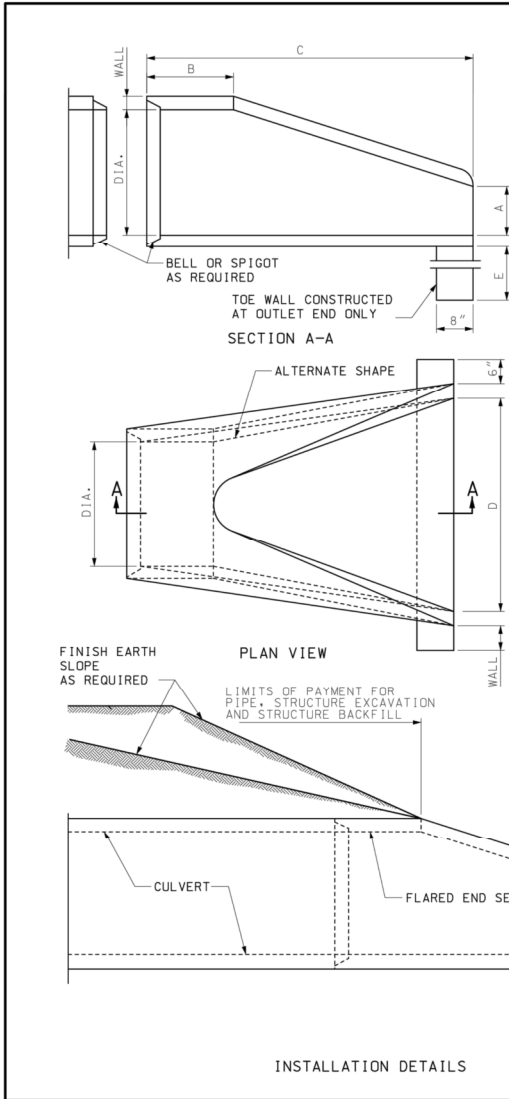


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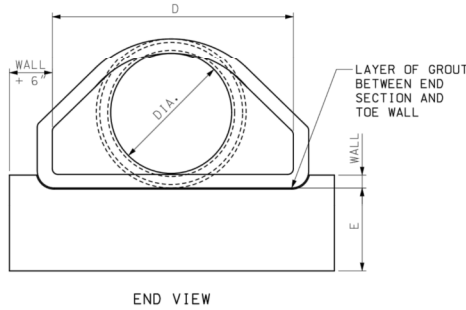
1000 E. Bluebonnet, 100 Bluebonnet, Overland Park, KS 66202 7301 West 133rd Street, Suite 200, Overland Park, KS 66204 TEL: 913.381.1170 FAX: 913.381.1174 www.olsan.com	
RYAN B. FLEMING MO. NO. PE-2002003161	
REVISIONS DESCRIPTION BY DATE	REVISIONS 2021
STORM SEWER PROFILE & DRAINAGE MAP LEE'S SUMMIT MIDDLE SCHOOL #4 RANSON ROAD PUBLIC IMPROVEMENTS LEE'S SUMMIT, MISSOURI	
C.O.A. NO. _____ DATE _____ DRAWN BY: MSW CHECKED BY: RBE APPROVED BY: RBE GAUC BY: RBE PROJECT NO.: 00000000 DWG NO.: T_STRM_0203004 DATE: 2021-08-25	
SHEET 25 OF 52	

DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\McDOT Plans - (Ransom & Bailey)\DETAILS\STORM SEWER DETAILS\T\_STRMDT01.MD\_0200103.dwg  
 DATE: Aug 25, 2021 11:03am  
 USER: mholter  
 XREFS: T\_PBLKNO\_0200103



DIMENSIONS						
DIA.	WALL	A	B MIN.	C MIN.	D	E
12"	2"	4"	4'-0"	6'	2'-0"	18"
15"	2 1/4"	6"	3'-10"	6'	2'-6"	18"
18"	2 1/2"	9"	3'-10"	6'	3'-0"	18"
21"	2 3/4"	9"	3'-2"	6'	3'-6"	18"
24"	3"	9 1/2"	2'-6"	6'	4'-0"	24"
27"	3 1/4"	10 1/2"	2'-1"	6'	4'-6"	24"
30"	3 1/2"	1'-0"	1'-7"	6'	5'-0"	24"
33"	3 3/4"	1'-2"	1'-7"	6'	5'-6"	24"
36"	4"	1'-3"	2'-10"	8'	6'-0"	24"
42"	4 1/2"	1'-9"	2'-11"	8'	6'-6"	24"
48"	5"	2'-0"	2'-2"	8'	7'-0"	24"
54"	5 1/2"	2'-3"	2'-11"	8'	7'-6"	36"
60"	6"	2'-6"	3'-3"	8'	8'-0"	36"
66"	6 1/2"	2'-0"	1'-9"	8'	8'-6"	36"
72"	7"	2'-0"	2'-9"	10'	9'-0"	36"
78"	7 1/2"	2'-3"	2'-3"	10'	9'-6"	36"
84"	8"	2'-6"	2'-0"	10'	10'-0"	36"

REINFORCEMENT					
ADJOINING PIPE DIA.	BARREL SECTION REINFORCEMENT (ONE LAYER ONLY)		FLARE SECTION REINFORCEMENT (ONE LAYER ONLY IN CENTER OF WALL)		
	CIRCULAR		ELLIPTICAL		
	INNER CAGE SQ. IN./LIN. FT.	OUTER CAGE SQ. IN./LIN. FT.	SQ. IN./LIN. FT.	AREA OF LONGITUDINAL SQ. IN./LIN. FT.	AREA OF TRANSVERSE SQ. IN./LIN. FT.
12"	0.07			0.048	0.048
15"	0.07			0.054	0.054
18"	0.07		0.07	0.060	0.060
21"	0.07		0.07	0.066	0.066
24"	0.07		0.07	0.072	0.072
27"	0.13		0.11	0.078	0.078
30"	0.14		0.12	0.084	0.084
33"	0.15		0.13	0.090	0.090
36"	0.12	0.09	0.13	0.096	0.096
42"	0.15	0.12	0.17	0.108	0.108
48"	0.18	0.14	0.20	0.120	0.120
54"	0.22	0.16	0.24	0.132	0.132
60"	0.25	0.19	0.28	0.144	0.144
66"	0.31	0.23	0.34	0.156	0.156
72"	0.35	0.21	0.39	0.170	0.170
78"	0.40	0.24	0.44	0.185	0.185
84"	0.46	0.28	0.51	0.205	0.205



**GENERAL NOTES:**  
 SLIGHT VARIATIONS IN BOTH SHAPE AND DIMENSIONS FROM THOSE SHOWN MAY BE ACCEPTED IF APPROVED BY THE ENGINEER.  
 NOT MORE THAN THREE LIFT HOLES MAY BE DRILLED OR CAST IN THE END SECTION FOR HANDLING AND LAYING.  
 LIFT LUGS OR BARS WILL BE PERMITTED IN PRECAST TOE WALLS.  
 TOE WALLS MAY BE CAST-IN-PLACE OR PRECAST.  
 STEEL FIBERS MAY BE USED IN LIEU OF REBAR OR COLD DRAWN STEEL WIRE AS PER SECTION 1032.3.4.

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MDOT (1-888-275-6636)	<b>FLARED END SECTION</b> PRECAST CONCRETE	
	DATE EFFECTIVE: 04/01/2016 DATE PREPARED: 2/11/2016	<b>732.00S</b>

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

STORM SEWER DETAILS  
 LEE'S SUMMIT MIDDLE SCHOOL #4  
 RANSON ROAD PUBLIC IMPROVEMENTS  
 LEE'S SUMMIT, MISSOURI

2021

RYAN B. FLEMING  
 NO. PE-000003161  
 7-29-21

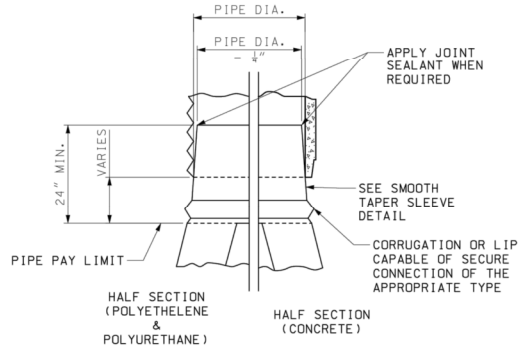
**olsson**

Olsson Engineering, Inc. One Centerville of America Blvd. #201 892  
 7380 West 133rd Street, Suite 200  
 Overland Park, KS 66211-1174  
 TEL: 913.381.1170  
 FAX: 913.381.1174  
 www.olsan.com

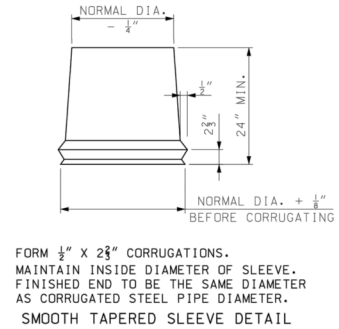
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 CHECKED BY: RBE  
 APPROVED BY: RBE  
 QA/QC BY: RBE  
 PROJECT NO. 000003161  
 DWG. NO. TSTRMDT01.MD\_0200103  
 DATE: 2021-04-15



CONNECTION REQUIREMENTS					
TYPE	CONNECTION TYPE	ALLOWABLE SIZE RANGE (IN.)	TAPERED SLEEVE REQUIREMENT		
			CMP	RCP	PP
SAFETY END SECTION	2	ALL	N	Y	Y
	6	12-24	N	Y	Y
METAL FLARED END SECTION	1	12-24	N	Y	N
	2	ALL	N	Y	N
	3	ALL	N	Y	N
	4	12-24	N	Y	N
	5	12-24	N	Y	N
	6	12-24	N	Y	N



HALF SECTION (POLYETHYLENE & POLYURETHANE)  
 HALF SECTION (CONCRETE)  
**TAPERED SLEEVE CONNECTION FOR CONCRETE AND THERMOPLASTIC PIPE**  
 TAPERED SLEEVE SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING PIPE PAY LENGTH.



FORM  $\frac{1}{2}$ " X  $2\frac{3}{4}$ " CORRUGATIONS. MAINTAIN INSIDE DIAMETER OF SLEEVE. FINISHED END TO BE THE SAME DIAMETER AS CORRUGATED STEEL PIPE DIAMETER.  
**SMOOTH TAPERED SLEEVE DETAIL**

**GENERAL NOTES:**

MINOR VARIATIONS OF DETAIL AND DIMENSIONS WILL BE ACCEPTED TO PERMIT THE USE OF A MANUFACTURER'S STANDARD METHODS OF FABRICATION.

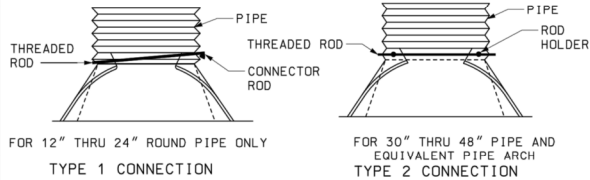
TAPERED SLEEVES SHALL BE FABRICATED FROM SMOOTH 12 GAUGE STEEL COATED IN ACCORDANCE WITH AASHTO M-218.

TAPERED SLEEVES SHALL BE FIRMLY WEDGED INTO THE PIPE END BEFORE BACKFILLING PIPE PAY LENGTH.

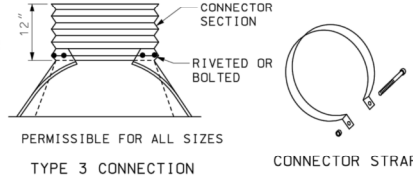
THE LENGTH OF TAPERED SLEEVE SHALL BE SIZED TO PROTECT UV SENSITIVE PIPE MATERIALS FROM SUNLIGHT. THE ENTIRE COST OF THE TAPERED SLEEVE, HARDWARE, AND INSTALLATION SHALL BE INCLUDED IN THE COST OF THE PIPE.

TAPERED SLEEVES SHALL HAVE AT A MINIMUM A HALF CORRUGATION OR LIP DESIGNED TO PROVIDE A SECURE CONNECTION WITH THE END SECTION.

ANY ROD OR STRAP USED FOR MAKING A CONNECTION SHALL BE SECURELY SEATED INTO A VALLEY OF THE PIPE CORRUGATION. THE VALLEY CHOSEN TO HOLD THE ROD OR STRAP SHALL LEAVE AT LEAST ONE FULL INTACT CORRUGATION BEFORE THE END OF THE PIPE. THE FEMALE PORTION OF A BELL END SHALL NOT COUNT AS A FULL INTACT CORRUGATION.

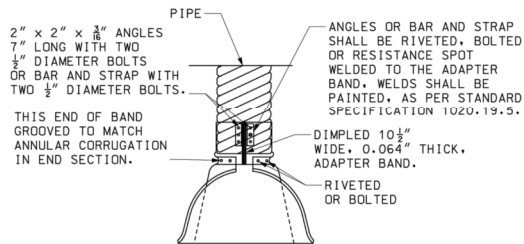


FOR 12" THRU 24" ROUND PIPE ONLY  
**TYPE 1 CONNECTION**  
 FOR 30" THRU 48" PIPE AND EQUIVALENT PIPE ARCH  
**TYPE 2 CONNECTION**

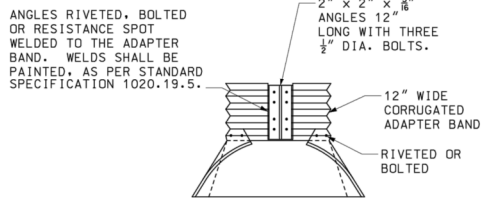


PERMISSIBLE FOR ALL SIZES  
**TYPE 3 CONNECTION**  
**CONNECTOR STRAP**

1 INCH WIDE, 0.109" THICK CONNECTOR STRAP OF COMMERCIAL QUALITY STEEL, GALVANIZED WITH SAME WEIGHT COATING AS PIPE, AND  $6" \times \frac{3}{8}"$  GALVANIZED BAND BOLT AND NUT. USE AS ALTERNATE ON TYPE 1 CONNECTION ONLY.



FOR 12" THRU 42" PIPE AND EQUIVALENT PIPE ARCH  
**TYPE 4 CONNECTION**



PERMISSIBLE FOR ALL SIZES THROUGH 84" PIPE AND 8-12 OR 8-12A PIPE ARCH  
**TYPE 5 CONNECTION**

**END SECTION FOR PIPE AND PIPE ARCH**

<p><b>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION</b>                  105 WEST CAPITOL                  JEFFERSON CITY, MO 65102                  1-888-ASK-MDOT (1-888-275-6636)</p>	<p><b>FLARED END SECTION</b>                  METAL</p>	<p>SHEET NO.                  3 OF 3</p>



REV. NO.	DATE	REVISIONS DESCRIPTION

STORM SEWER DETAILS  
 LEE'S SUMMIT MIDDLE SCHOOL #4  
 RANSON ROAD PUBLIC IMPROVEMENTS  
 LEE'S SUMMIT, MISSOURI

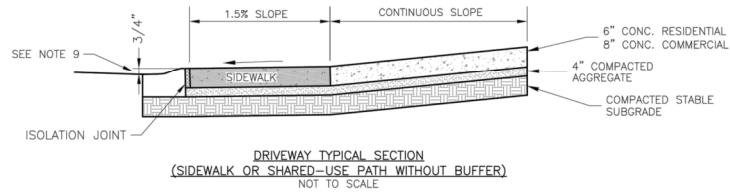
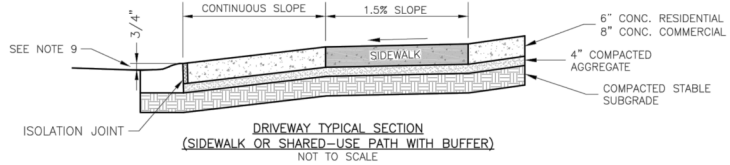
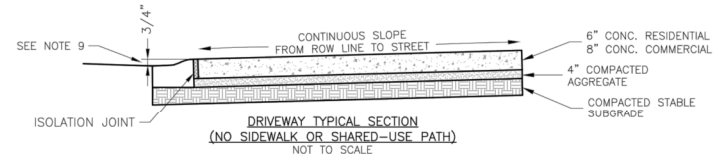
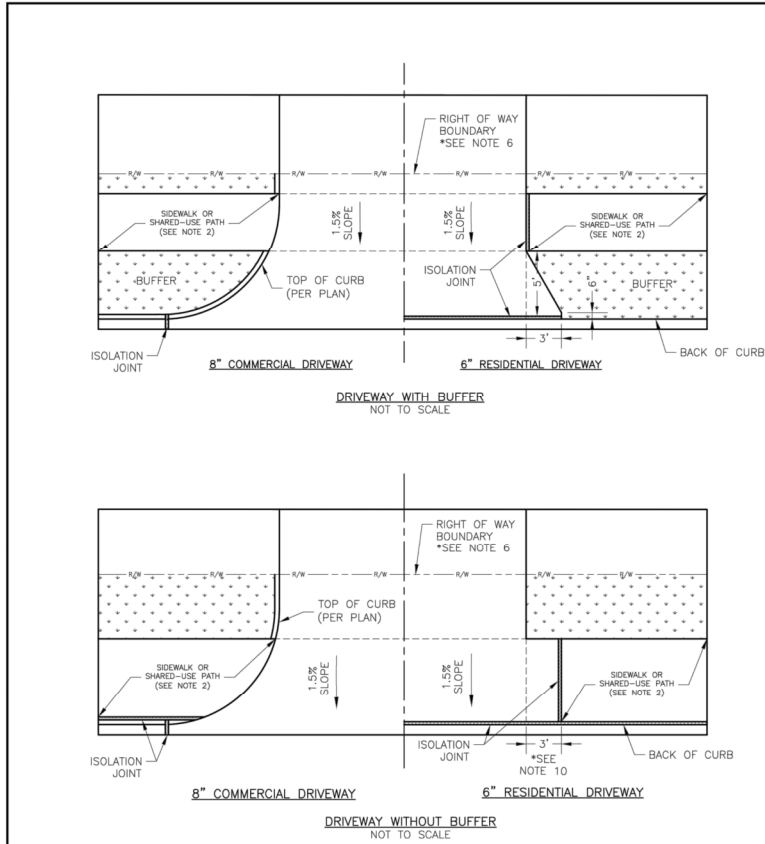
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DRAWN BY	MS/W
CHECKED BY	JBE
APPROVED BY	JBE
QA/QC BY	JBE
PROJECT NO.	0200103
DWG. NUMBER	STORMDTLOT_MC_0200103
DATE	2021-08-25



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

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 DATE: Aug 25, 2021 11:03am  
 XREFS: T\_P1BLKMO\_020103

USER: maller



**GENERAL NOTES**

- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
- ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
- JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
- KCMMB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
- COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX.
- RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES NEEDS TO BE APPROVED BY CITY INSPECTOR.
- A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
- 3/4" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURBS ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
- SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
- THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.

**LEE'S SUMMIT MISSOURI**  
 PUBLIC WORKS ENGINEERING DIVISION | 120 SE GREEN STREET | LEE'S SUMMIT, MO 64093

STANDARD DETAILS  
 CITY OF LEE'S SUMMIT, MO  
 LEE'S SUMMIT, JACKSON COUNTY, MO  
 SHEET NO. 10

Drawn By: MIF  
 Checked By: DL  
 Date: 04/17  
 Project:

GEN-1

STANDARD DETAILS

LEE'S SUMMIT MIDDLE SCHOOL #4  
 RANSON ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

C.O.A. NO. 001592  
 DRAWN BY: MIF  
 CHECKED BY: DL  
 APPROVED BY: RFB  
 DATE: 04/17  
 PROJECT NO. 0006003  
 DWG NO. 1-0101-MO-020103  
 DATE: 2021-04-15

SHEET  
 29 OF 52



RYAN B. FLEMING  
 NO. PE-000003161

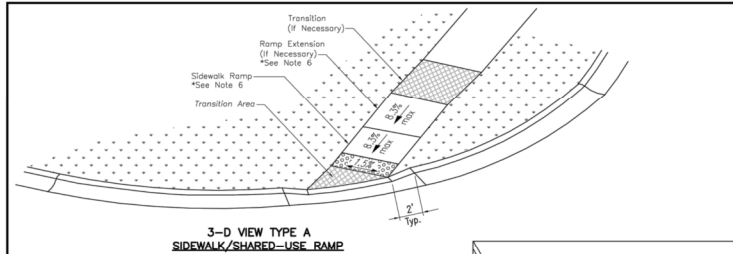
REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

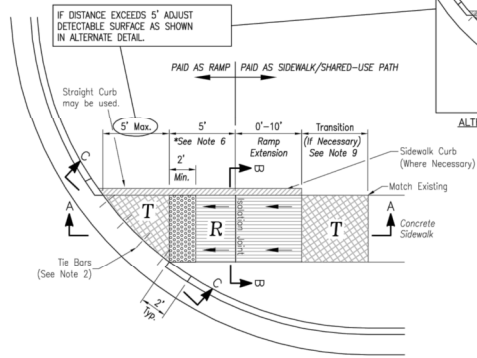
2021



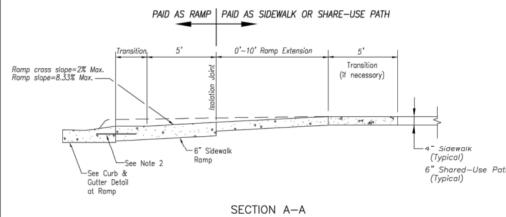
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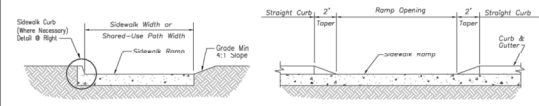
3-D VIEW TYPE A  
SIDEWALK/SHARED-USE RAMP



TYPE A SIDEWALK/SHARED-USE RAMP  
Not to Scale

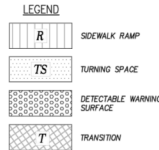


SECTION A-A

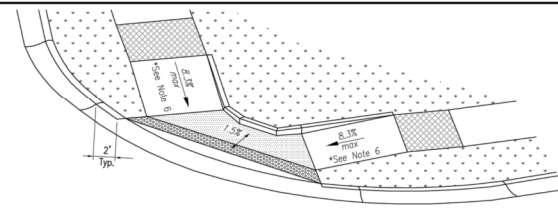


TYPE A & B SIDEWALK RAMP  
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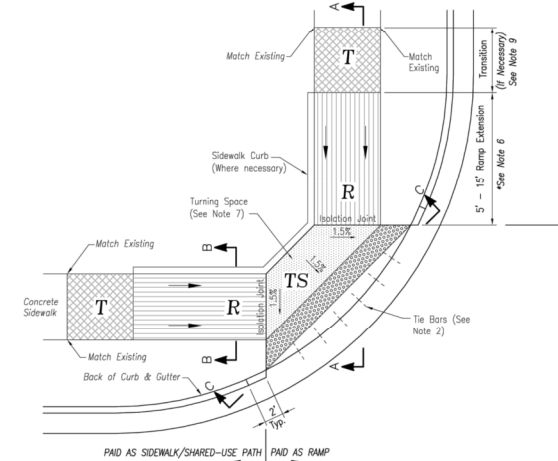
SIDEWALK CURB DETAIL  
Not to Scale



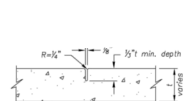
- SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:**
- CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
  - USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED THE BARS 9" IN EACH DIRECTION.
  - ALL RAMP, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
  - LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
  - ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 150' CENTERS MAX.
  - ADA MAXIMUM RAMP SLOPE = 8.33%  
ADA MAXIMUM CROSS SLOPE = 2.0%
  - \*ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.
  - TURNING SPACES SHALL BE 1.5%, ±0.5% SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
  - FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR.
  - RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMP TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
  - ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).



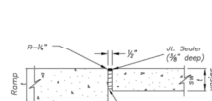
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SIDEWALK/SHARED-USE RAMP



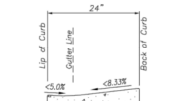
TYPE B SIDEWALK/SHARED-USE RAMP  
Not to Scale



CONTRACTION JOINT  
Not to Scale



ISOLATION JOINT  
Not to Scale



CURB & GUTTER DETAIL AT RAMP  
Not to Scale

**LEE'S SUMMIT MISSOURI**  
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64083

STANDARD DETAILS  
 CITY OF LEE'S SUMMIT, MO  
 LEE'S SUMMIT, JACKSON COUNTY, MO  
 Project Name: ADA RAMP RETROFIT DETAIL

GEN-3A

**olsson**  
 1600 East Empowerment, 100 State, Collinsville, MO 65015  
 7201 West 133rd Street, Suite 200, Lee's Summit, MO 64083  
 TEL: 913.381.1170 FAX: 913.381.1174 www.olsan.com

RYAN B. FLOWING  
 PE-0000003161  
 7-29-21

REV. NO.	DATE	REVISION DESCRIPTION

STANDARD DETAILS  
 LEE'S SUMMIT MIDDLE SCHOOL #4  
 RANSON ROAD PUBLIC IMPROVEMENTS  
 LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO. 001582  
 DRAWN BY: MSW  
 CHECKED BY: JBL  
 APPROVED BY: JBL  
 DATE: 04/17  
 PROJECT NO. 0000003161  
 DWG NO. T\_01101\_MO\_020103  
 DATE: 2021-04-15

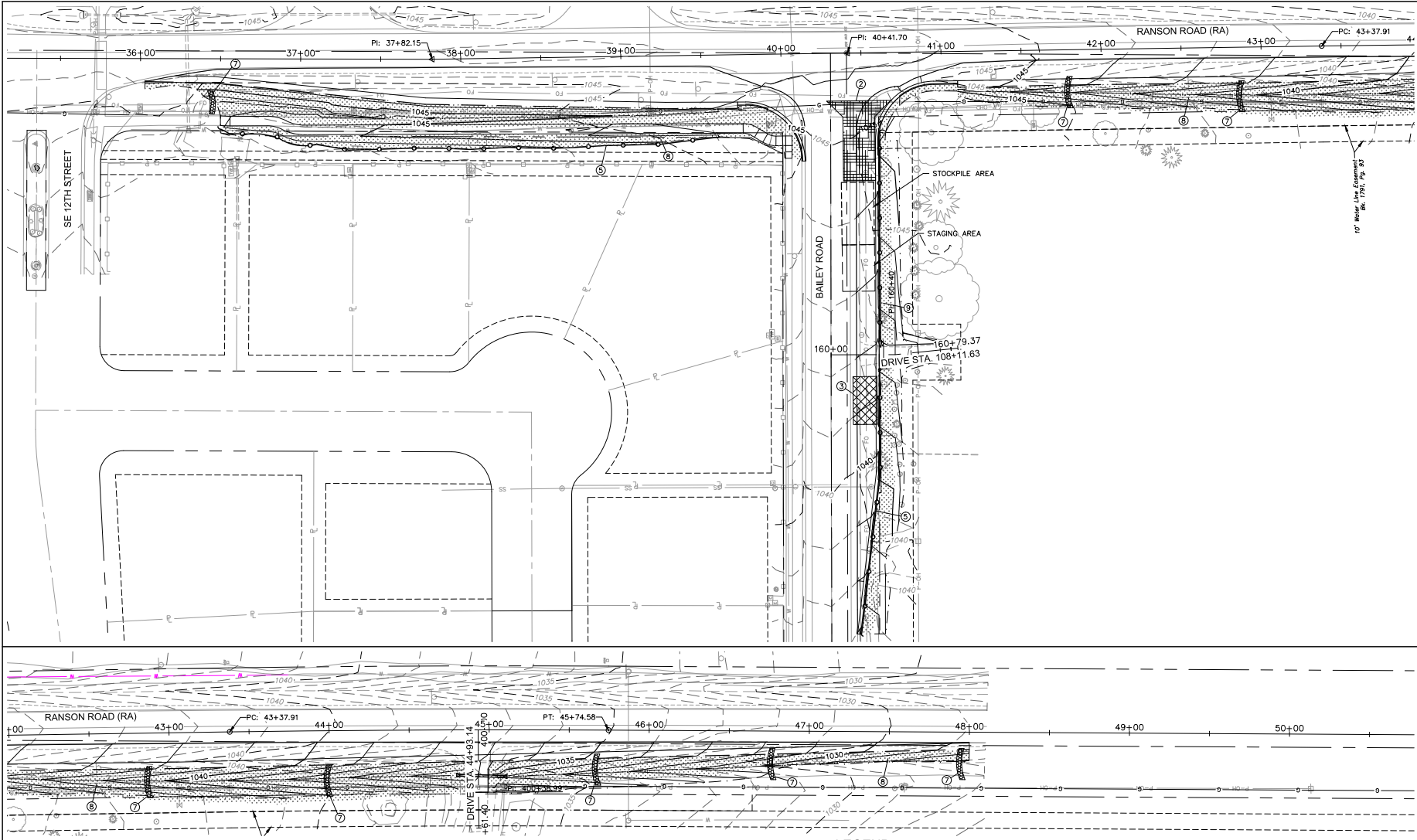
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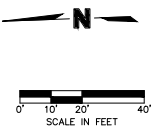
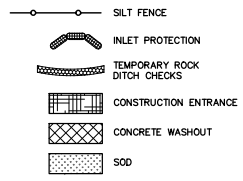
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 USER: mchler



EROSION AND SEDIMENT CONTROL STAGING CHART

PROJECT STAGE	EROSION CONTROL PLAN BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
I - STORM SEWER INSTALLATION PRIOR TO ROADWAY GRADING	1	STAGING AREA	III	
	2	TEMPORARY CONSTRUCTION ENTRANCE	III	
	3	CONCRETE WASHOUT	III	
	4	TEMP. ROCK DITCH CHECK AND/OR BID LOGS	IV	INSTALL BEFORE STORM SEWER INSTALLATION
	5	SILT FENCE/OR BIODEGRADABLE LOGS (9")	IV	
II - ROADWAY GRADING & SWALE GRADING	6	TEMP. ROCK DITCH CHECK AND/OR BID LOGS	IV	PER DETAIL SHEET XX
III - PAVING	7	SILT FENCE/OR BIODEGRADABLE LOGS (9")	IV	INSPECT AND RECONSTRUCT AS NEEDED
IV - STABILIZE SITE	8	SOD	N/A	SEE MODO STANDARD SPECIFICATIONS, SECTION 803

LEGEND



olsson

1500 E. Bluebonnet Blvd., Suite 200, Overland Park, KS 66211-1170  
 TEL: 913.381.1170  
 FAX: 913.381.4150  
 www.olsosn.com

RYAN B. FLEMING  
 NO. PE-000003161  
 STATE OF MISSOURI

REV. NO.	DATE	REVISIONS DESCRIPTION

EROSION CONTROL PLAN

LEE'S SUMMIT MIDDLE SCHOOL #4

RANSON ROAD PUBLIC IMPROVEMENTS

REVISIONS

C.I.A. NO. 001082

DRAWN BY: MSW

CHECKED BY: RBE

APPROVED BY: RBE

QA/QC BY: RBE

PROJECT NO. 0200103

DWG NO. 1\_ERCI\_0200103

DATE: 2021-08-25

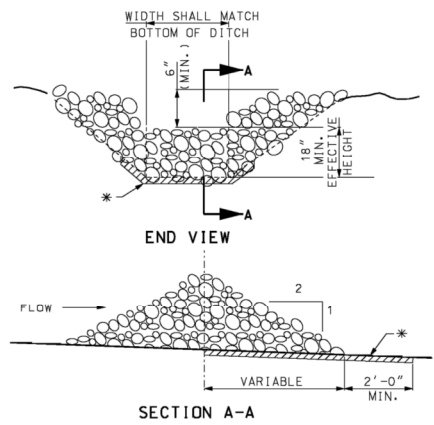
2021

LEE'S SUMMIT, MISSOURI

SHEET 33 OF 52

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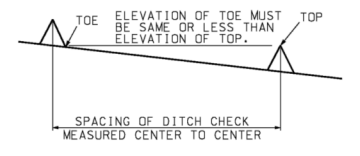
**ROCK DITCH CHECK**



\* GEOTEXTILE LINING MAY BE INSTALLED AS REQUIRED BY THE ENGINEER.  
 NOTE:  
 ROCK DITCH CHECK IN THE CLEAR ZONE SHALL BE REMOVED OR LEVELED (IF ALLOWABLE) AFTER THE VEGETATION HAS SUFFICIENTLY MATURED TO PROTECT THE DITCH OR SWALE.

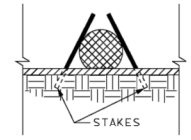
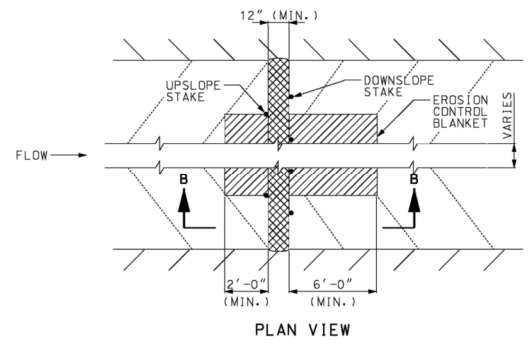
**EXAMPLE DITCH CHECK SPACING FOR STANDARD HEIGHTS (F.T.)**

DITCH & SLOPE %	SPACING FOR 9" EFF. HEIGHT	SPACING FOR 18" EFF. HEIGHT
0.5	150	300
1.0	75	150
1.5	50	100
2.0	37	75
2.5	30	60
3.0	25	50
3.5	21	43
4.0	19	38
4.5	16	33
5.0	15	30
5.5	13	27
6.0	12	25
6.5	11	23
7.0	10	21
7.5	10	20
8.0	9	19
8.5	9	18
9.0	8	17
9.5	8	16
10.0	7	15

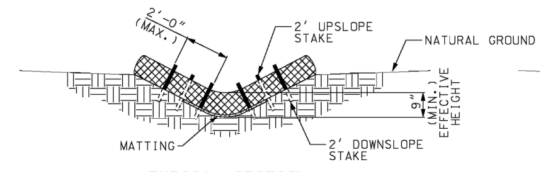


**MINIMUM DITCH CHECK SPACING**

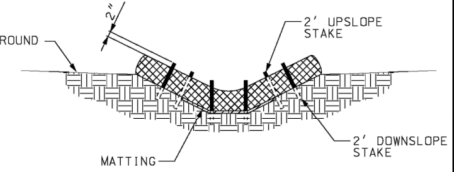
**ALTERNATE DITCH CHECK**



**SECTION B-B**



**TYPICAL SECTION VEE DITCH**



**TYPICAL SECTION TRAPEZOIDAL DITCH**

NOTES:  
 USE MINIMUM 12 IN. DIAMETER LOG/SOCK.  
 USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.  
 INSTALL LOG/SOCK TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND LOG/SOCK AND SCOUR DITCH SLOPES OR AS DIRECTED BY ENGINEER.  
 INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE LOG/SOCK TO BOTTOM OF DITCH.  
 EROSION CONTROL BLANKET SHALL BE ANCHORED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES:  
 OTHER PROPRIETARY DITCH CHECKS MAY BE SUBSTITUTED IN ACCORDANCE WITH SEC 806 OR AS DIRECTED BY THE ENGINEER.  
 INSTALLATION OF PROPRIETARY DITCH CHECKS SHALL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

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

**TEMPORARY EROSION CONTROL MEASURES**  
 TEMPORARY DITCH CHECKS

STATE OF MISSOURI  
 ERIC S. SPICHTER  
 PROFESSIONAL ENGINEER  
 NO. 000000000

DATE EFFECTIVE: 04/01/2015  
 DATE PREPARED: 2/20/2015

806.10J

SHEET NO. 1 OF 6

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

**olsson**  
 Olsson Engineering, Inc. Statewide Office of Public Safety  
 7201 West 133rd Street, Suite 200  
 Overland Park, KS 66213-4750  
 TEL: 913.381.1170  
 FAX: 913.381.1174  
 www.olsan.com

RYAN B. FLEMING  
 NO. NO. PE-0000003161

BY: \_\_\_\_\_  
 REVISIONS DESCRIPTION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REV. NO.: \_\_\_\_\_

EROSION CONTROL DETAILS  
 LEE'S SUMMIT MIDDLE SCHOOL #4  
 RANSON ROAD PUBLIC IMPROVEMENTS  
 LEE'S SUMMIT, MISSOURI

2021

C.O.D. NO. \_\_\_\_\_  
 DRAWN BY: MSW  
 CHECKED BY: RBE  
 APPROVED BY: RBE  
 DATE: \_\_\_\_\_  
 PROJECT NO.: 000000000  
 DWG NO.: T\_ERCZ\_0200103  
 DATE: 2021-08-25

SHEET 34 OF 52









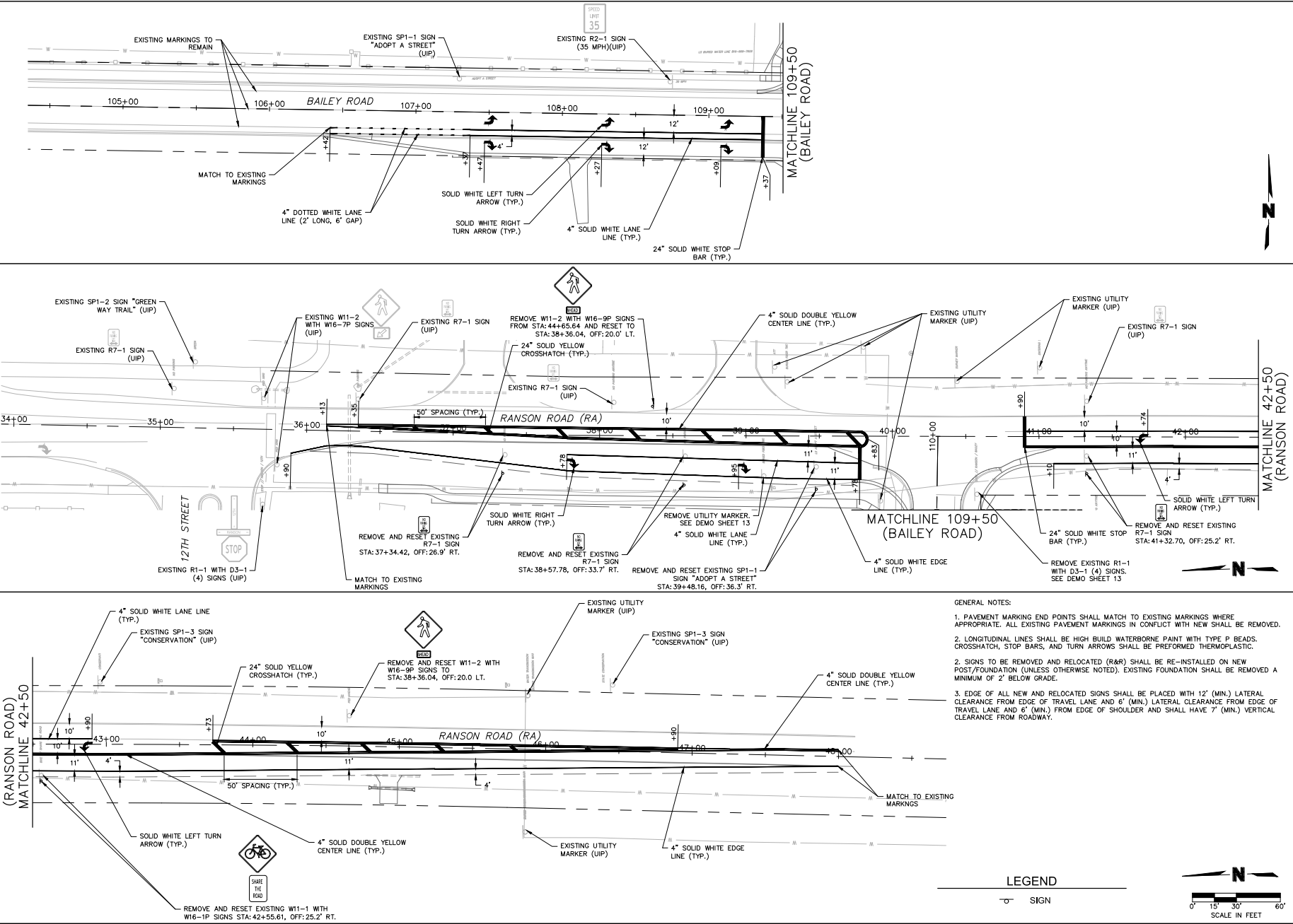








USER: Phyllis  
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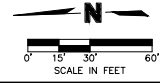


**GENERAL NOTES:**

- PAVEMENT MARKING END POINTS SHALL MATCH TO EXISTING MARKINGS WHERE APPROPRIATE. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH NEW SHALL BE REMOVED.
- LONGITUDINAL LINES SHALL BE HIGH BUILD WATERBORNE PAINT WITH TYPE P BEADS. CROSSHATCH, STOP BARS, AND TURN ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- SIGNS TO BE REMOVED AND RELOCATED (R&R) SHALL BE RE-INSTALLED ON NEW POST/FOUNDATION (UNLESS OTHERWISE NOTED). EXISTING FOUNDATION SHALL BE REMOVED A MINIMUM OF 2' BELOW GRADE.
- EDGE OF ALL NEW AND RELOCATED SIGNS SHALL BE PLACED WITH 12" (MIN.) LATERAL CLEARANCE FROM EDGE OF TRAVEL LANE AND 6" (MIN.) LATERAL CLEARANCE FROM EDGE OF TRAVEL LANE AND 6" (MIN.) FROM EDGE OF SHOULDER AND SHALL HAVE 7" (MIN.) VERTICAL CLEARANCE FROM ROADWAY.

**LEGEND**

—○— SIGN



STATE OF MISSOURI  
JEFFREY NUMBER  
PROFESSIONAL ENGINEER  
0124 0261

1600 East Empowerment, 100 State Center Drive, Suite 400, Jefferson City, MO 64101  
 7301 West 133rd Street, Suite 200, Overland Park, KS 66213-1750  
 TEL: 913.381.1170  
 FAX: 913.381.1174  
 www.olsson.com

REV. NO.	DATE	REVISIONS DESCRIPTION	BY

PAVEMENT MARKING AND SIGNING PLAN  
 BAILEY ROAD & RANSON ROAD  
 RANSON ROAD AND BAILEY ROAD IMPROVEMENTS

2021

LEE'S SUMMIT, MISSOURI

C.O.A. NO. 001592  
 DRAWN BY: JBC  
 CHECKED BY: JBC  
 APPROVED BY: JBC  
 G.A.D.C. BY: JBC  
 PROJECT NO. 0802010  
 DWG NO. J45887-010  
 DATE: 8/25/2021

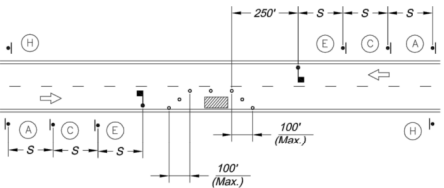
SHEET  
 42 OF 52



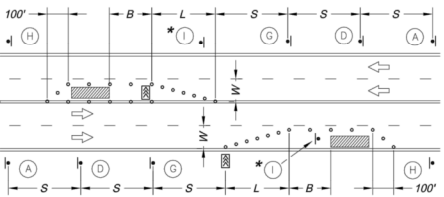


**SYMBOL LEGEND**

- Work Area
- Sign
- Barricade
- Direction of Travel
- Channelizer
- Arrow Panel
- Flagger

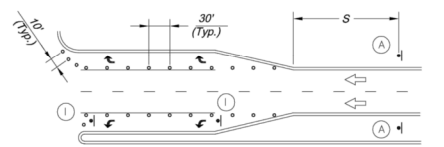


**LANE CLOSURE - TWO LANE STREET**



**LANE CLOSURE - FOUR LANE STREET**

\* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



**TURN LANE CLOSURE**

Sign Spacing "S"		Taper Dimensions (Feet)				
Speed Limit (mph)	Spacing (Feet)	Speed Limit (mph)	Minimum Taper Length "L", per Lane Width "W"	11	12	Minimum Number of Channelizers
25	100	25	105	115	125	6
30 - 35	250	30	150	165	180	7
≥ 40	350	35	205	225	245	8
		40	270	295	320	9
		45	450	495	540	13

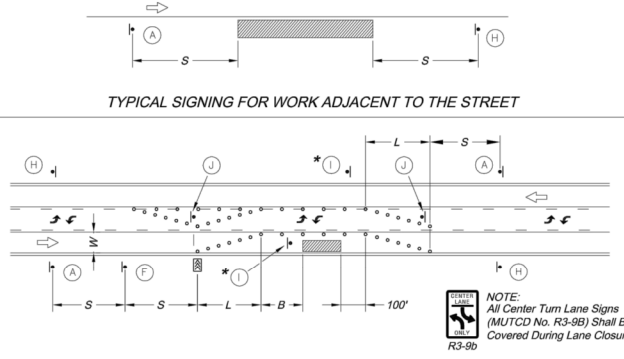
Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

Maximum Channelizer Spacing		
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

**SIGN LEGEND**

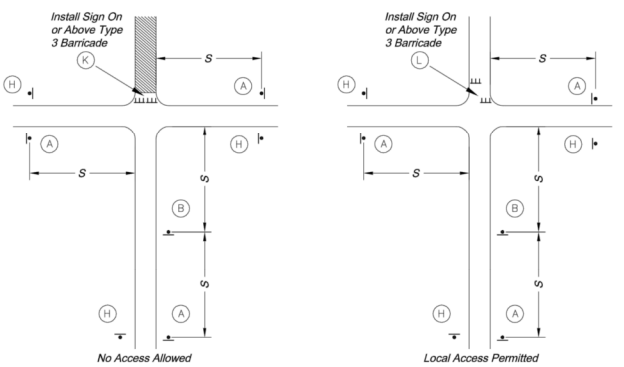
- ROAD WORK AHEAD W20-1 36" x 36"
- ROAD CLOSED AHEAD W20-2 36" x 36"
- ONE LANE ROAD AHEAD W20-4 36" x 36"
- RIGHT LANE CLOSED AHEAD W20-5R 36" x 36"
- LEFT W20-5L 36" x 36"
- W1-4R 36" x 36"
- W4-2L 36" x 36"
- END ROAD WORK G20-2 36" x 18"
- Use Only As Approved by City Traffic Engineer R3-2 24" x 24"
- KEEP RIGHT R4-7a 24" x 30"
- ROAD CLOSED R11-2 48" x 30"
- ROAD CLOSED THRU TRAFFIC R11-4 60" x 30"

**TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET**



**LANE CLOSURE - THREE LANE STREET**

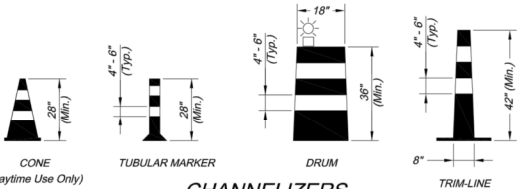
\* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



**TYPICAL STREET CLOSURE**

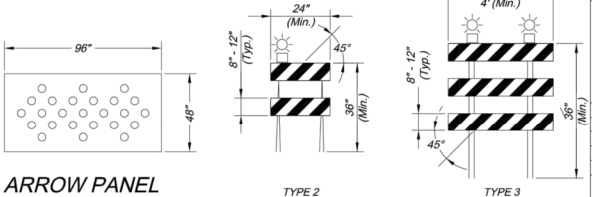
**GENERAL NOTES:**

- All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- All traffic control devices shall be standard in size, shape, color, and message, in good condition, and retro-reflectORIZED.
- All signs shall be securely mounted with height and lateral location as described in the MUTCD.
- Warning lights shall be used on barricades in place at night and on warning signs which alert drivers about a change in alignment, traffic control, lane closure, or road closure.
- Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities impose a restriction on traffic, as directed by the City Traffic Engineer. Where flaggers are used, advance signing shall be erected as shown in the details or as specified in the MUTCD. Flaggers shall meet the requirements in the MUTCD in regard to character, training, attire, and behavior.
- Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
- Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
- The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from exposed objects, excavations, and construction activities.
- Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
- No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If a detour route around the closure is to be provided, all detour signing shall be as shown on a plan approved by the City Traffic Engineer.
- Construction vehicles parked along streets shall be located within the work area (traffic control) or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for vehicles exiting at streets or drives.
- Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks shall be removed immediately.
- The Contractor shall not perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 9:00 a.m. or 4:00 p.m. and 6:00 p.m. Monday through Friday unless otherwise indicated in the specifications.
- All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.
- All edge drop-offs of more than 2 inches and less than 4 inches should be protected by a wedge or barrier or all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment requirements).
- The "Workers" symbolic sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Workers" sign.
- No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
- The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
- The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
- Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of the following actions:
  - Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate.
  - Stop the work until deficiencies are corrected.
  - Suspend all pay estimates until deficiencies are corrected, or
  - Place the Contractor in default.



**CHANNELIZERS**

NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.



**ARROW PANEL**

**BARRICADES**

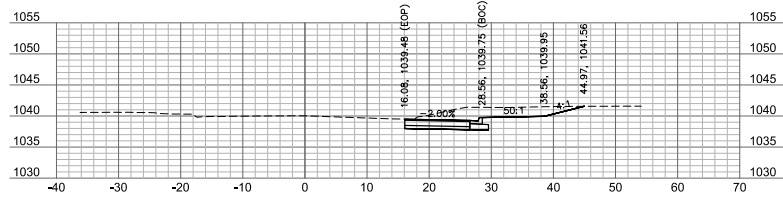
CITY OF LEE'S SUMMIT  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
220 SE GREEN STREET  
LEE'S SUMMIT, MISSOURI 64063  
PHONE: (816) 869-1800 FAX: (816) 969-1809

Project: BAILEY ROAD  
TRAFFIC CONTROL DETAILS  
Sheet Name: STANDARD DRAWING TC-1

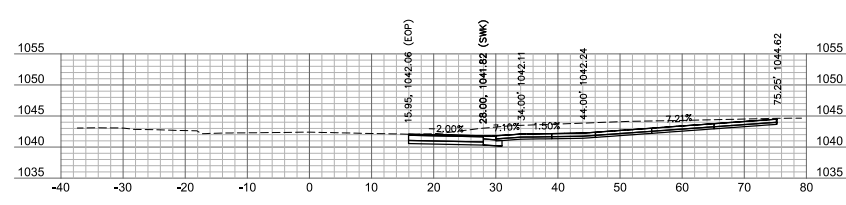
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Checked By: MP  
Date: 12-10-2008  
Project No.: X

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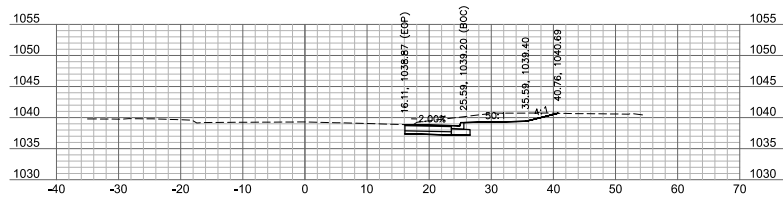
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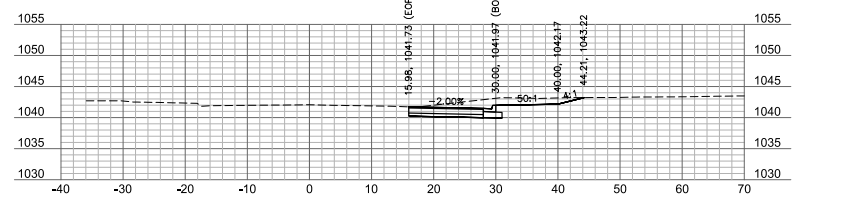
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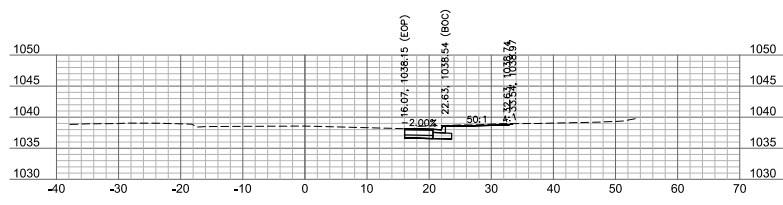
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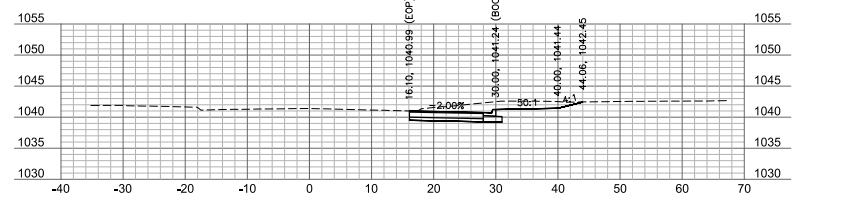
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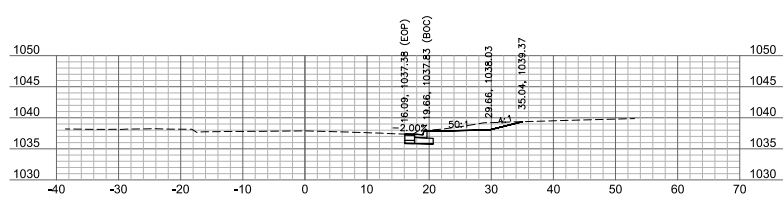
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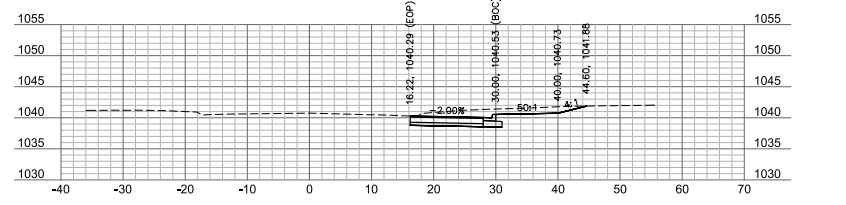
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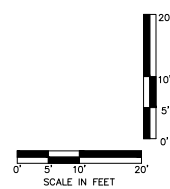
107+75




106+50




107+50





1500 E. Blue Springs Blvd., Suite 200, Blue Springs, MO 64015  
 7381 West 133rd Street, Suite 200, Overland Park, KS 66213-7150  
 TEL: 913.381.1170 FAX: 913.381.1174 www.olsan.com



RYAN B. FLEMING  
 ENGINEER  
 PE-2002003161  
 7-29-21

REV. NO.	REVISION DESCRIPTION	DATE

NO. 10 PE-2002003161

BY: RYAN B. FLEMING

BAILEY ROAD CROSS SECTIONS

LEE'S SUMMIT MIDDLE SCHOOL #4

RANSON ROAD PUBLIC IMPROVEMENTS

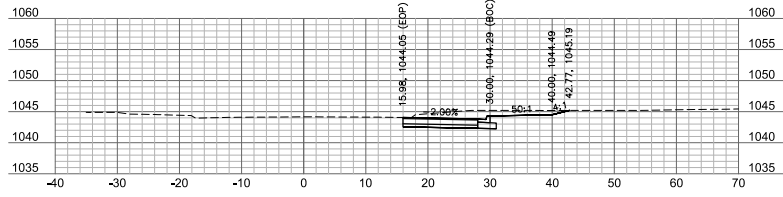
LEE'S SUMMIT, MISSOURI

2021

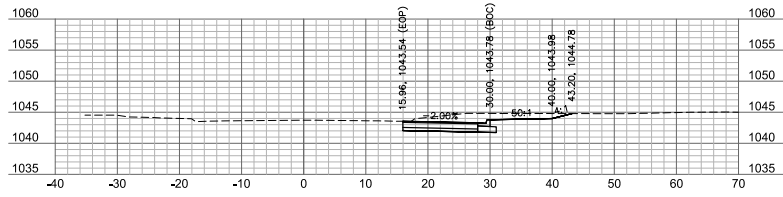
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 CHECKED BY: RFB  
 APPROVED BY: RFB  
 G.A.D.C. BY: RFB  
 PROJECT NO. 2006010  
 DWG NO. T\_XSC01\_M0\_0200103  
 DATE: 2021-08-14

SHEET 46 OF 52

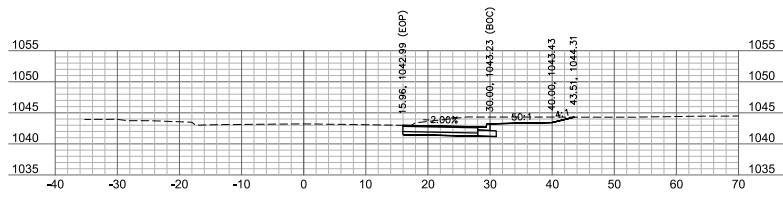
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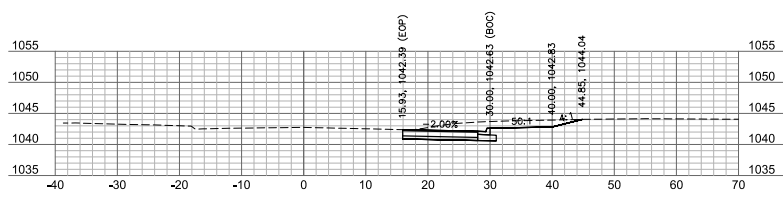
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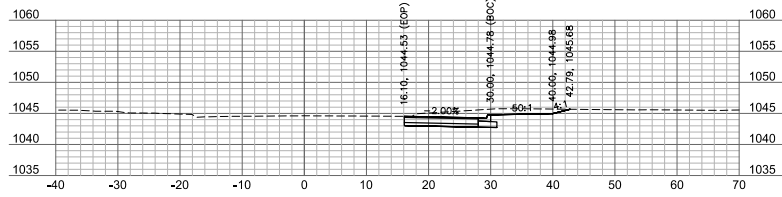
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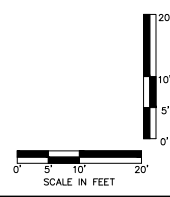
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108+25



109+25



BAILEY ROAD  
CROSS SECTIONS

LEE'S SUMMIT MIDDLE SCHOOL #4  
RANSON ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

C.O.A. NO. 001592  
DRAWN BY: MS/W  
CHECKED BY: JBE  
APPROVED BY: JBE  
DATE: 2021-08-14

PROJECT NO. 00800103  
DWG NO. T\_XSC01\_M0\_000103

2021

REVISIONS DESCRIPTION

DATE

REV. NO.

BY

MO. NO. PE-2002003161

RYAN B. FLEMING  
REGISTERED PROFESSIONAL ENGINEER  
NO. 0000000161  
7-29-21

REVISIONS

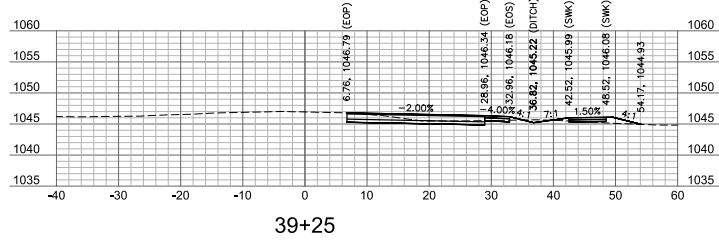
olsson

1500 E. Bluebonnet, 1st Floor, Overland Park, KS 66202  
7381 West 133rd Street, Suite 200  
Overland Park, KS 66213-7150  
TEL: 913.381.1170  
FAX: 913.381.1174  
www.olsan.com

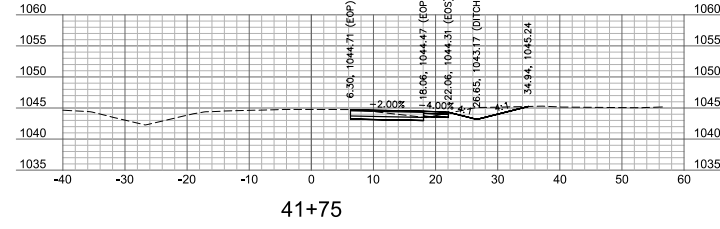




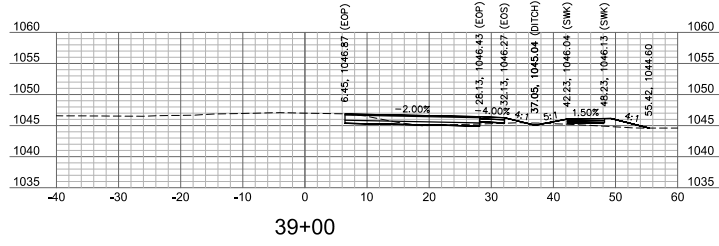
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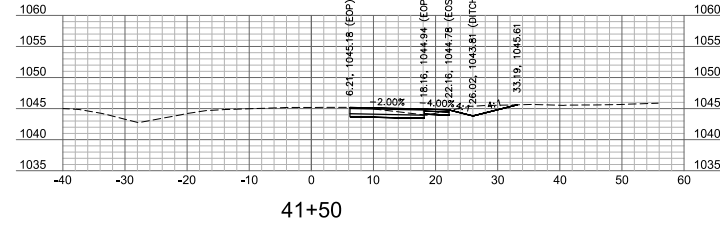
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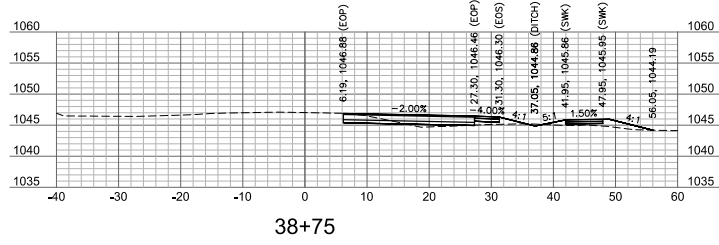
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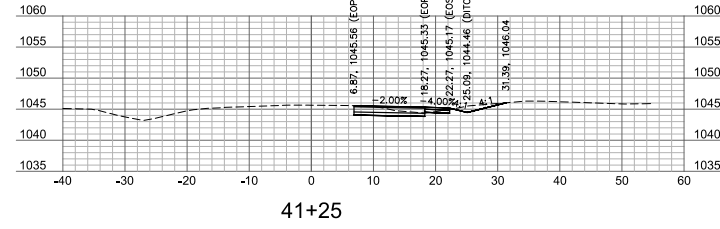
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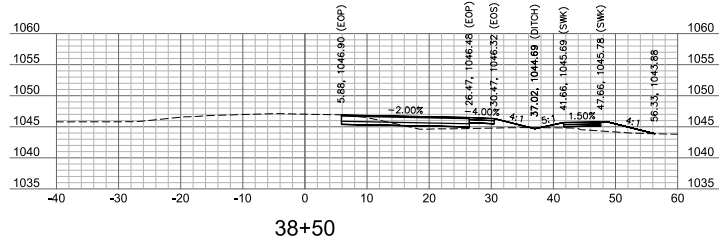
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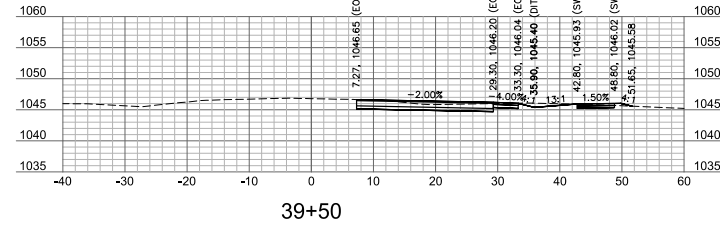
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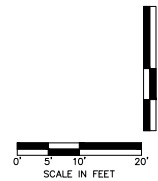
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38+50




39+50





1800 Main Street, 1st Floor, Overland Park, KS 66202  
 7200 West 133rd Street, Suite 200, Overland Park, KS 66213-7150  
 TEL: 913.381.1170 FAX: 913.381.1174 www.olsan.com



RYAN B. FLEMING  
 MO. NO. PE-000003161  
 7-29-21

REV. NO.	DATE	REVISION DESCRIPTION

BY: \_\_\_\_\_

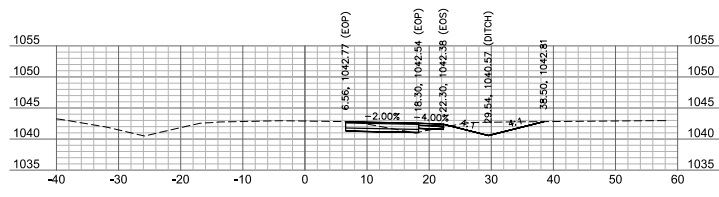
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SHEET: LEE'S SUMMIT MIDDLE SCHOOL #4

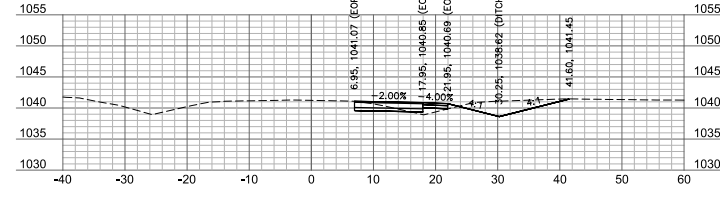
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49 OF 52

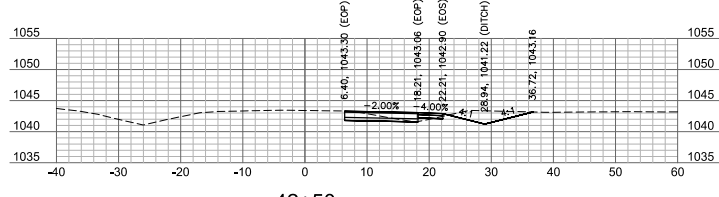
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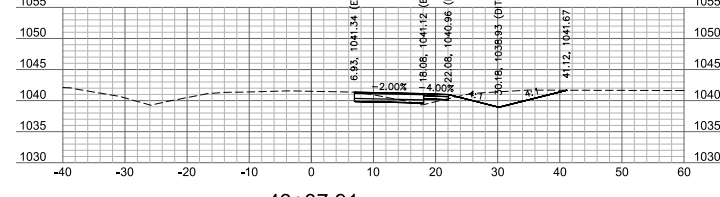
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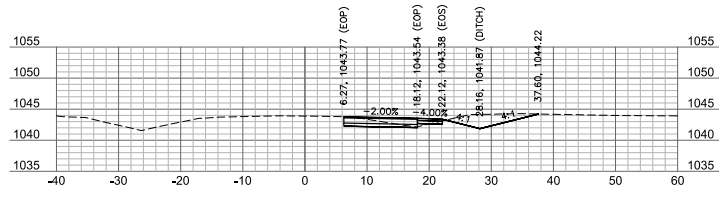
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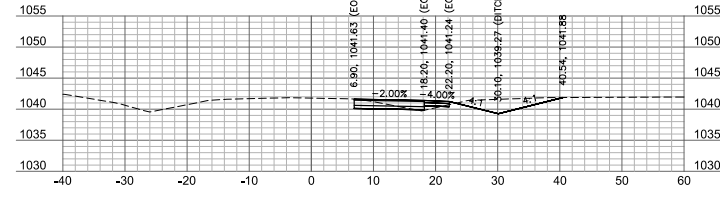
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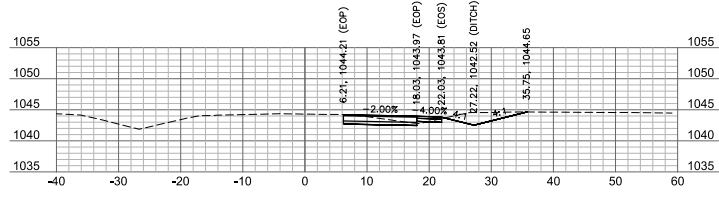
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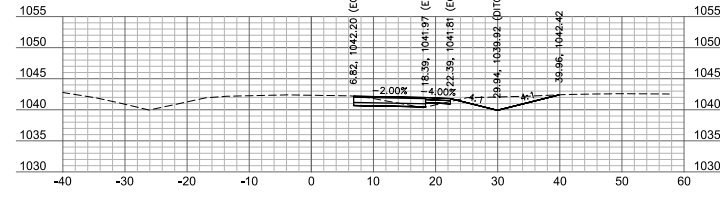
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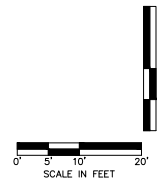
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43+00



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 Overland Park, KS 66213-7150  
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RYAN B. FLEMING  
 NO. PE-000003161

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION

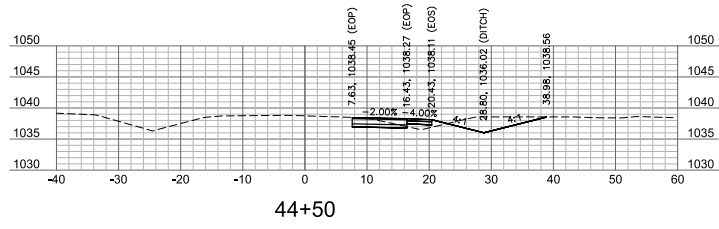
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 CROSS SECTIONS  
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 RANSON ROAD PUBLIC IMPROVEMENTS

2021

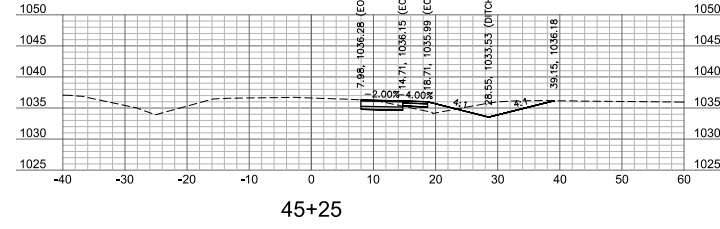
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 APPROVED BY RFB  
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 DATE: 2021-08-24

SHEET  
 50 OF 52

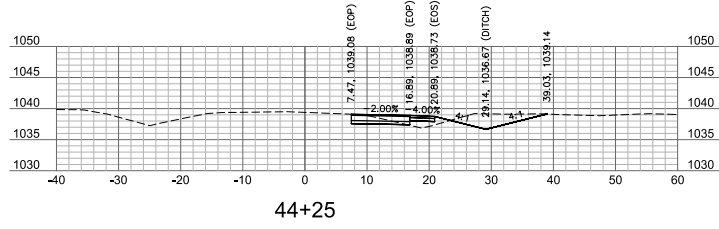
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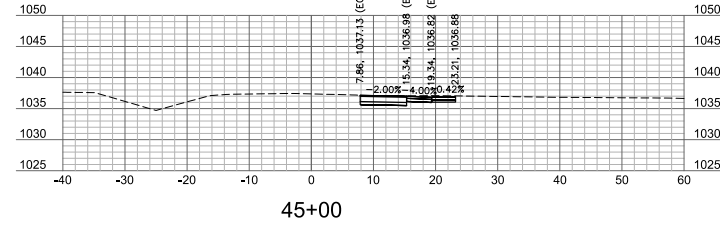
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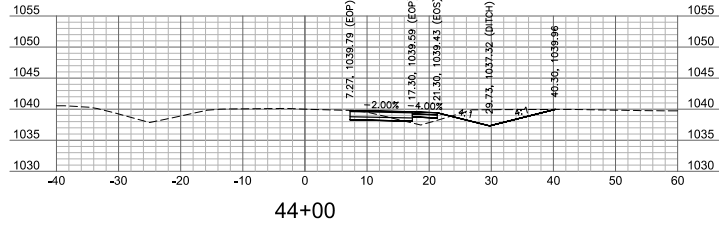
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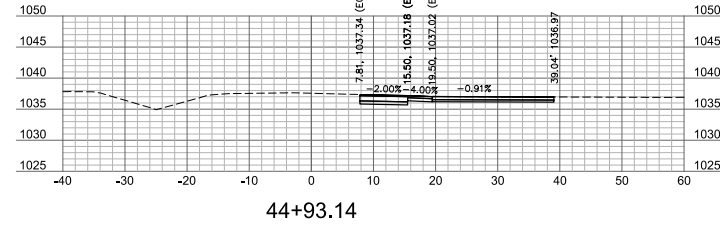
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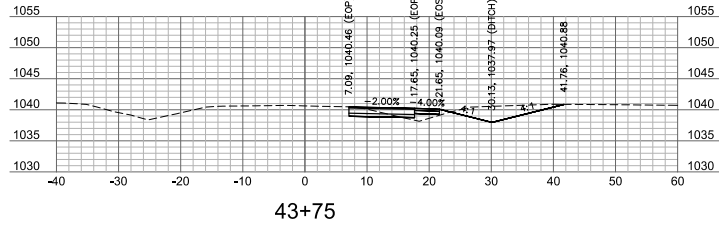
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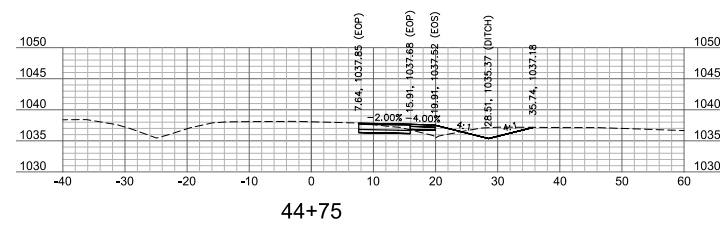
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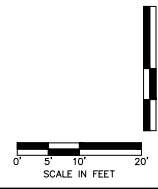
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43+75




44+75





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 STATE OF MISSOURI

REV. NO.	REVISIONS DESCRIPTION	DATE

BY: \_\_\_\_\_

MO. NO. PE-000003161

RYAN B. FLEMING

REVISIONS

2021

LEE'S SUMMIT, MISSOURI

LEE'S SUMMIT MIDDLE SCHOOL #4  
 RANSON ROAD PUBLIC IMPROVEMENTS

RANSON ROAD  
 CROSS SECTIONS

G.D.A. NO. 001582  
 DRAWN BY: MSW  
 CHECKED BY: JRF  
 APPROVED BY: RBE  
 QA/QC BY: RBE  
 PROJECT NO. 00600103  
 DWG NO. T\_XSC01\_M0\_000103  
 DATE: 2021-08-24

SHEET  
 51 OF 52

