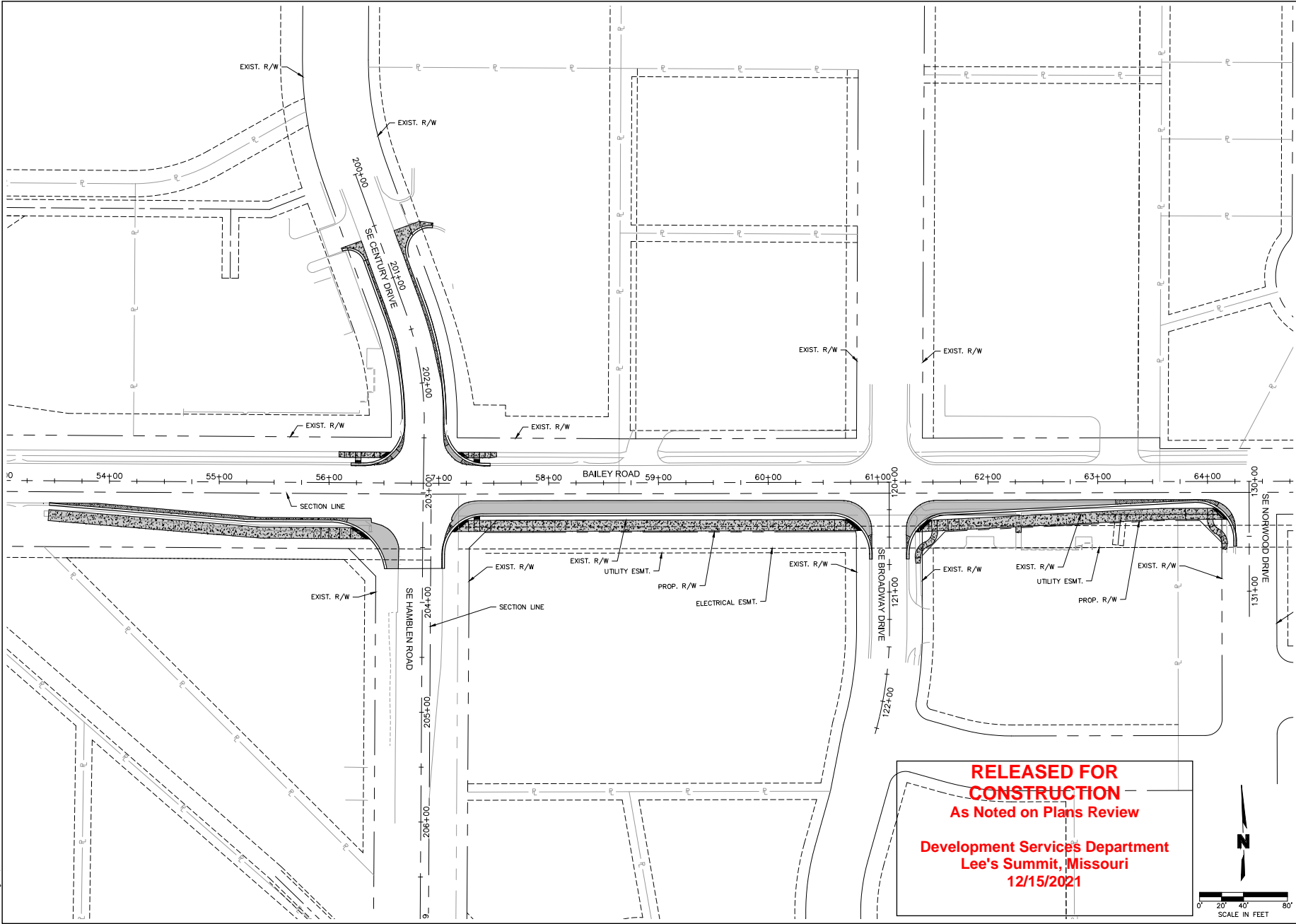



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CONSTRUCTION**
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
12/15/2021

							
RYAN B. FLEMING MO. NO. PE-2002003161							
BY: _____ REVISIONS DESCRIPTION: _____ DATE: _____	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">NO.</td> <td style="width: 45%;">DESCRIPTION</td> <td style="width: 50%;">DATE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DESCRIPTION	DATE			
NO.	DESCRIPTION	DATE					
GENERAL LAYOUT LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS LEE'S SUMMIT, MISSOURI							
C.O.A. NO. 001592 DRAWN BY: MS/W CHECKED BY: JBE APPROVED BY: JBE QA/QC BY: JBE PROJECT NO. 0200103 DWG NO. T_LAYOUT_0200103 DATE: 2021-02-01							
SHEET 2 OF 101							

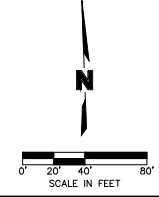
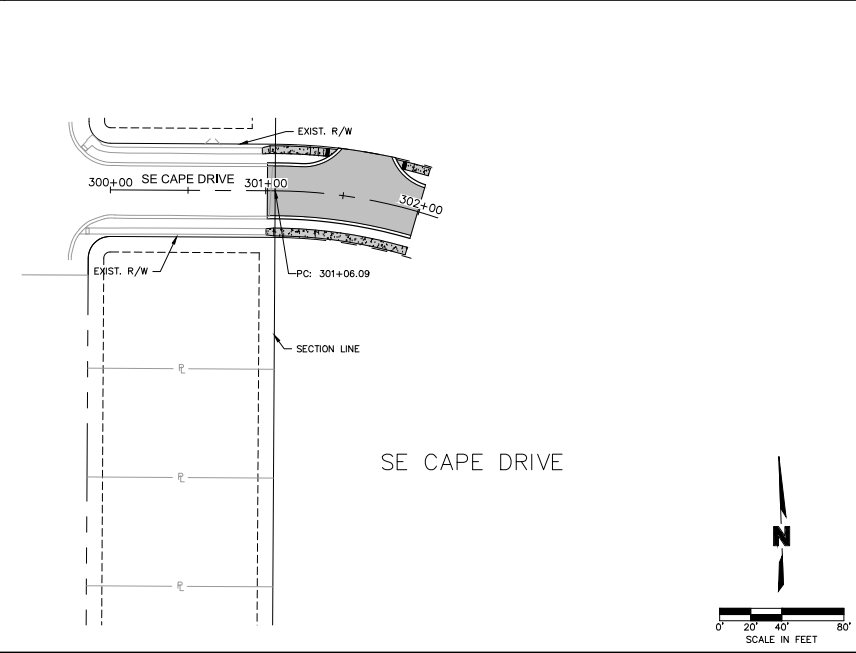
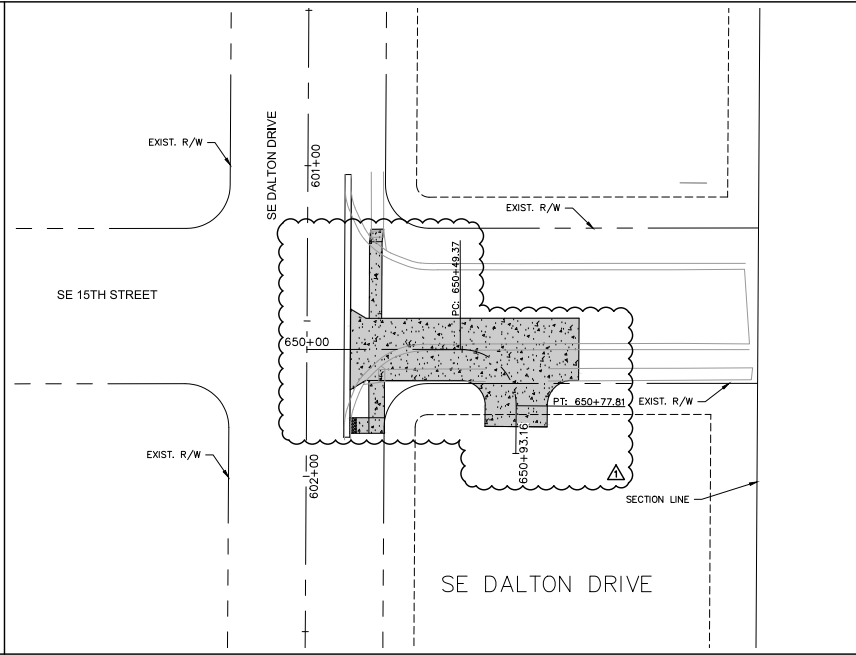
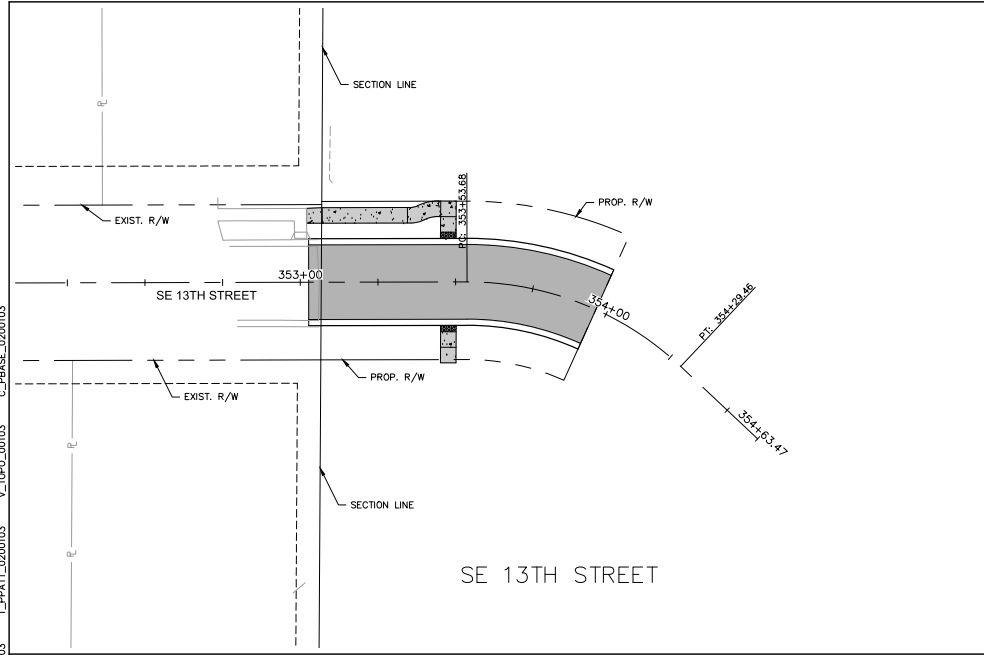
olsson

Olsson Engineers, 1100 State Center Drive, Suite 400, Leander, TX 78641-8992
 7201 West 133rd Street, Suite 200, Overland Park, KS 66221-4750
 TEL: 913.381.1170 FAX: 913.381.1174 www.olsan.com

DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\Lee Summit Plan Set - Century and Middle School Drives\GENERAL_LAYOUT_0200103.dwg
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Lee's Summit, Missouri
12/15/2021



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Olsson Engineering, Inc. State Office of Architects, PE 1892
 7281 West 133rd Street, Suite 200 TEL: 913.381.1170
 Overland Park, KS 66223-4750 FAX: 913.381.1174 www.olson.com

RYAN B. FLEMING
 PE-2002003161
 8-11-21

REV. NO.	DATE	REVISION DESCRIPTION	BY	APP. BY
1	08/25/2021	AS PER	RBF	

GENERAL LAYOUT

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

2021

C.O.A. NO.	00182
DRAWN BY	MS/W
CHECKED BY	RBF
APPROVED BY	RBF
QA/QC BY	RBF
PROJECT NO.	0200103
DWG NO.	GENERAL_LAYOUT_0200103
DATE	2021-08-21

SHEET
4 OF 101

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 DATE: Aug 25, 2021 9:39am XREFS: T_FLBK_0200103 V_XR01_00103 V_XR02_00103 V_XR03_00103

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 0.9999986, 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:
 K2 Metro Aluminum GPS Disk set in concrete ±3" below pavement on shoulder of SE Ranson Rd. Stamped "JA-45".
 N: 994930.246
 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 Baley Rd.
 N: 993599.81
 E: 2831586.70
 Elevation: 1032.16'

Olsson #102:
 Set 1/2" Rebar with Olsson Control Cap. Set in the grass ±50' East of the East end of SE 15th St.
 N: 992084.31
 E: 2831530.63
 Elevation: 1012.26'

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: 2831514.48
 Elevation: 1000.43'

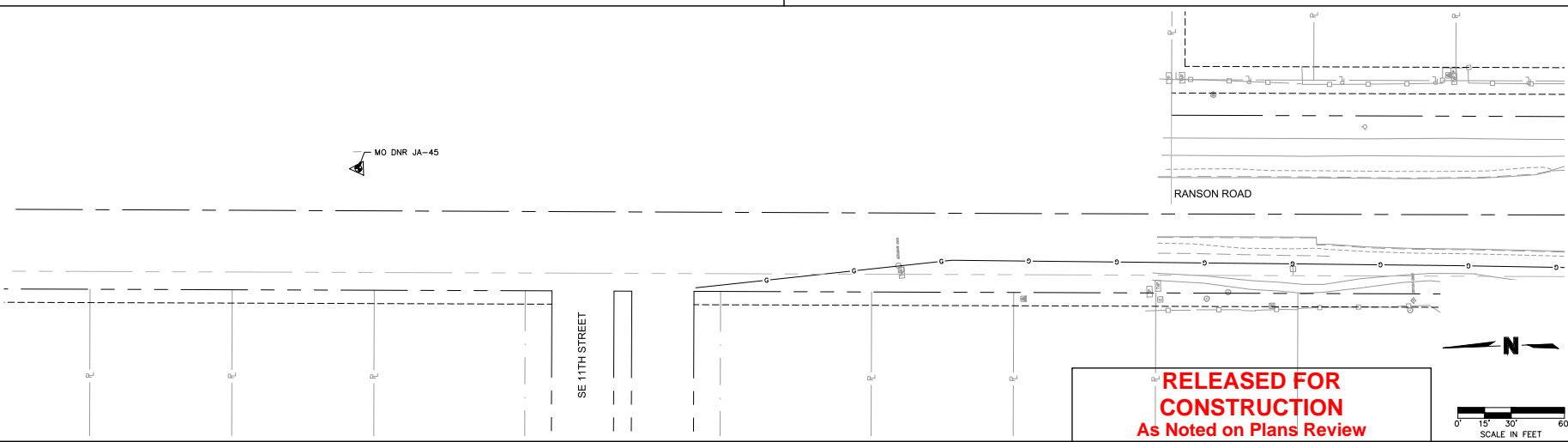
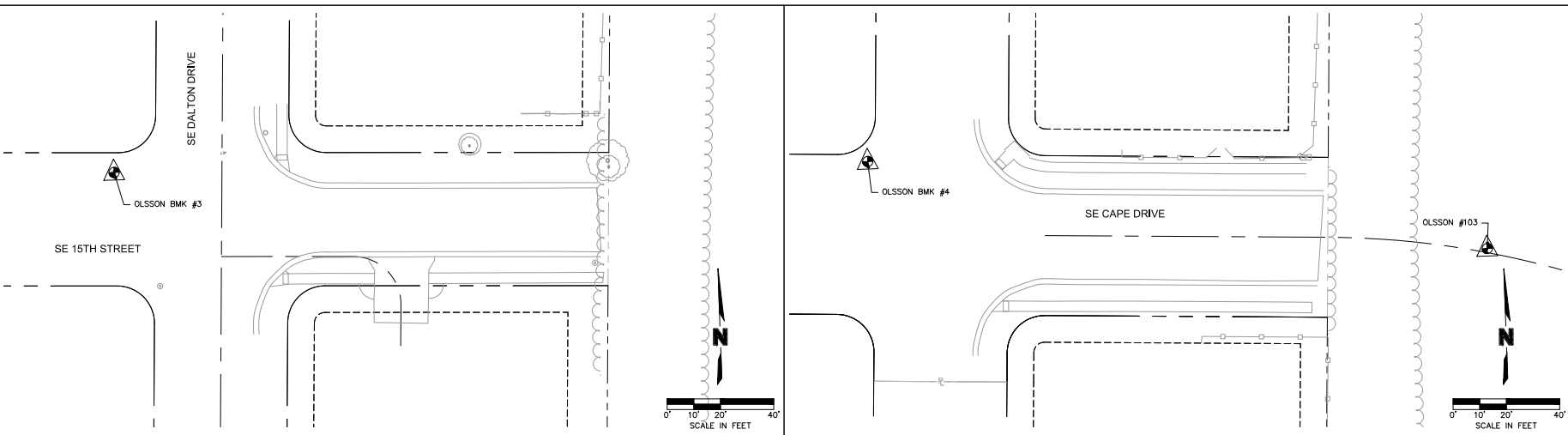
Olsson Benchmark #1:
 Set chiseled square cut on center front face of a curb inlet on North side of SE Baley Rd. ±42' West of Country Ln.
 Elevation: 1028.43'

Olsson Benchmark #2:
 Set chiseled square cut on SE corner of overflow structure on South side of pond on North side of SE Baley Rd. ±862' East of Country Ln.
 Elevation: 1017.13'

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'

- Olsson #101:**
 1. East 80.94' to the NW corner of a concrete curb inlet on the North side of SE Baley Rd.
 2. SE 61.52' to the SW corner of a concrete curb inlet on the South side of SE Baley 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 Baley Rd.
 4. West ±871' to the centerline of Country Ln. on the North side of SE Baley Rd.
- Olsson #102:**
 1. SW 68.88' to the NE corner of the concrete sidewalk on the South side of SE Baley Rd.
 2. SSW 82.19' to the center of a power pole on the South side of SE Baley Rd.
 3. East 254.38' to the NW corner of a concrete curb inlet on the North side of SE Baley Rd.
 4. East ±238' to the centerline of Country Ln. on the North side of SE Baley Rd.
- Olsson #103:**
 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:**
 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 #2:**
 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:**
 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 #4:**
 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.



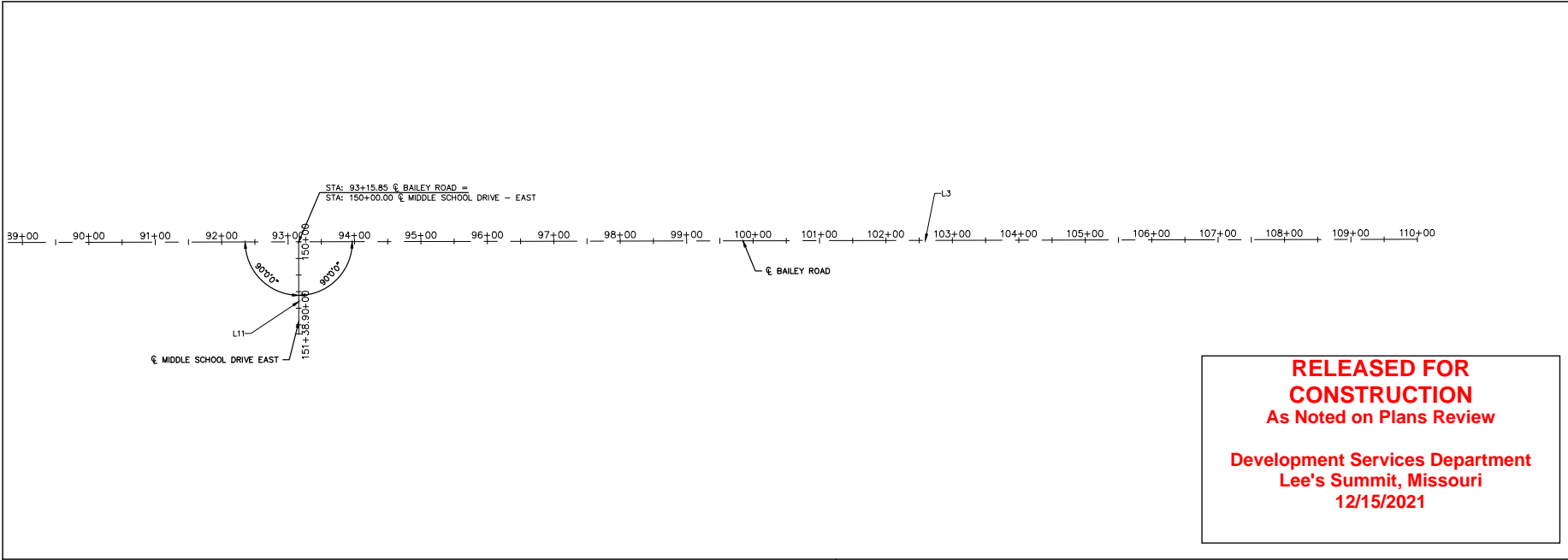
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Development Services Department
 Lee's Summit, Missouri
 12/15/2021

RYAN B. FLEMING MO. NO. PE-2002003161	
BY	
REVISIONS DESCRIPTION	
DATE	
REV. NO.	
SURVEY CONTROL LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS LEE'S SUMMIT, MISSOURI	
C.O.G.A. NO. 001582 DRAWN BY MS/W CHECKED BY RBE APPROVED BY RBE QA/QC BY RBE PROJECT NO. 0200103 DWG NO. T_SUR01_0200103 DATE: 2021-08-25	
SHEET 6 OF 101	

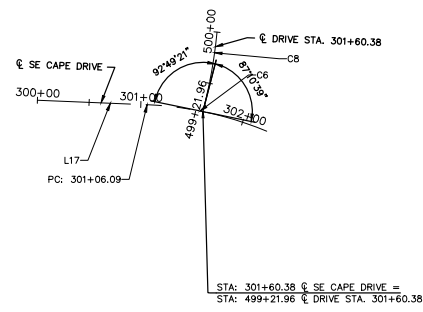
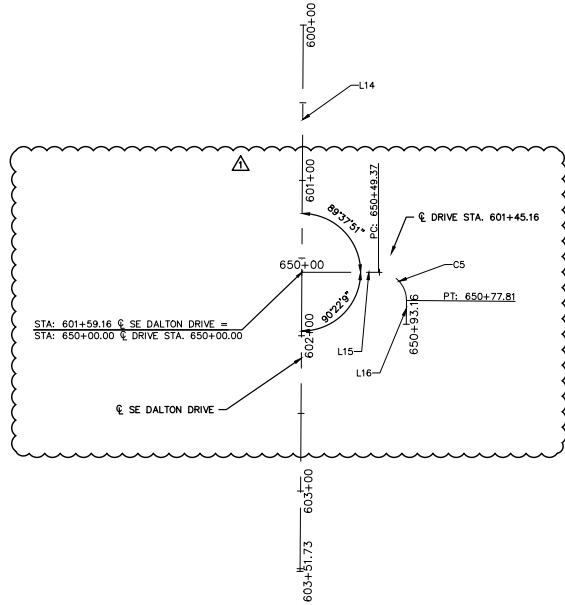
olsson
 1600 E. Blue Springs Blvd., Suite 200
 7381 West 133rd Street, Suite 200
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 www.olsson.com

DWG: F:\2020\001-0500\020-0103\45-Design\AutoCAD\Final Plans\DRBR\Lee Summit Plan Set - (Century and Middle School Drives)\GENERAL\T_AUD1_020103.dwg
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 USER: molter



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**Development Services Department
Lee's Summit, Missouri
12/15/2021**



C.G.A. NO. 001592
 DRAWN BY MS/W
 CHECKED BY RBE
 APPROVED BY RBE
 QA/QC BY RBE
 PROJECT NO. 0060103
 DWG NO. T_AUD1_020103
 DATE: 2021-08-21

olsson

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

ALIGNMENT DATA

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

LEE'S SUMMIT, MISSOURI

2021

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 V_XB001-2_00103
 V_XDPO-2_00103

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

1) PRELIMINARY INFORMATION:

- a) CONSULT PARAGRAPH 6.12 OF THE EJDC 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 REFINISHED. 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 SOD 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 CONDITIONS.
- c) UNLESS WAIVED IN SECTION 1010, CONTRACTOR SHALL MAINTAIN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON SITE IN ACCORDANCE WITH DNR REGULATIONS.
- d) PROPERTY 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.

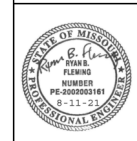
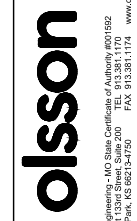
- g) ALL WASTE MATERIAL SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALL MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE. SAWCUTTING SHALL BE SUBSIDIARY TO OTHER BID ITEMS.

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.



RYAN B. FLEMING MO. NO. PE-2002003161	
BY	
REVISIONS DESCRIPTION	
DATE	
REV. NO.	

GENERAL NOTES	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.I.A. NO.	001592
DRAWN BY	MS/W
CHECKED BY	RBE
APPROVED BY	RBE
QA/QC BY	RBE
PROJECT NO.	09062010
DIWG NO.	T_GEN01_0200103
DATE	2021-02-01

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Lee's Summit, Missouri
12/15/2021

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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.	763
5	Pavement, Asphaltic Surface (APWA Type 3-01) (2")	Sq.Yd.	2,765
6	Pavement, Asphaltic Base (APWA RC Type 5-01) (4")	Sq.Yd.	250
7	Pavement, Asphaltic Base (APWA RC Type 5-01) (5.5")	Sq.Yd.	459
8	Pavement, Asphaltic Base (APWA RC Type 5-01) (8")	Sq.Yd.	22
9	Pavement, Asphaltic Base (APWA RC Type 1-01) (10")	Sq.Yd.	3,239
10	Concrete Base Widening	Sq.Yd.	579
11	Aggregate Base (MoDOT Type S) (4")	Sq.Yd.	2,948
12	Aggregate Base (MoDOT Type S) (6")	Sq.Yd.	3,891
13	Aggregate Base (MoDOT Type S) (10")	Sq.Yd.	341
14	Aggregate Base (MoDOT Type S) (12")	Sq.Yd.	478
15	Geogrid (Tensar TX140)	Sq. Yd.	4,709
16	Curb & Gutter (Type CG-1)	Lin. Ft.	3,248
17	Curb & Gutter (Type CG-2)	Lin. Ft.	85
18	Concrete Driveway (6")	Sq. Yd.	201
19	Concrete Driveway (8")	Sq.Yd.	32
20	Concrete Sidewalk (4")	Sq. Yd.	193
21	Concrete Sidewalk (6")	Sq. Yd.	2,307
22	Concrete ADA Ramps	Sq. Ft.	2,201
23	Detectable Warning Surface	Sq. Ft.	388
24	Inlet (Curb) (5'x3')	Each	2
25	Inlet (Curb) (8'x4')	Each	3
26	Inlet (Curb) (10'x4')	Each	1
27	Junction Box (4'x4')	Each	1
28	Structure Modification	Each	2
29	30" Pipe Collar	Each	1
30	15" Storm Sewer (RCP Class III)	Lin. Ft.	461
31	30" Storm Sewer (RCP Class III)	Lin. Ft.	21
32	15" Storm Sewer (MDPE)	Lin. Ft.	2
33	End Section (15" RC)	Each	1
34	Erosion Control Devices	Lump Sum	1
35	Traffic Signal Installation (Bailey & Century)	Lump Sum	1
36	2" Conduit with Locate Cable and Pull String	Lin. Ft.	1,406
37	Class 1 Fiber Optic Pull Box	Each	5
38	Fiber Interface Panel with 250' Pigtail	Each	2
39	Ethernet Switch, Transition with Separate Power Source	Each	2
40	Single Mode Patch Cable	Each	8
41	Temporary Traffic Control	Lump Sum	1
42	Permanent Signing	Sq. Ft.	54
43	Sign Post	Each	12
44	Pavement Marking (4" Solid White Lane Line)	Lin. Ft.	3,019
45	Pavement Marking (4" Solid Yellow Line)	Lin. Ft.	7,600
46	Pavement Marking (12" Yellow Crosshatch Line)	Lin. Ft.	295
47	Pavement Marking (24" White Stop Line)	Lin. Ft.	122
48	Pavement Marking (6" White Crosswalk Line)	Lin. Ft.	488
49	Pavment Marking (White Right Turn Arrow)	Each	1
50	Pavment Marking (White Left Turn Arrow)	Each	17
51	Connection to Existing Main	Each	1
52	6" Water Line	Lin. Ft.	60
53	8" Water Line	Lin. Ft.	264
54	6" 11.25 Bend	Each	1
55	8" 11.25 Bend	Each	5
56	8" 90 Bend	Each	1
57	Thrust Blocks	Each	7



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As Noted on Plans Review

**Development Services Department
Lee's Summit, Missouri
12/15/2021**

Olsson Engineering, Inc. 1400 South Chesapeake Avenue, Suite 100
 7280 West 133rd Street, Suite 200
 Overland Park, KS 66209-4750
 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olsan.com

RYAN B. FLEMING
 NO. PE-2002003161

REVISIONS

REV. NO.	DATE	DESCRIPTION	BY
1	06/29/2021	ASB, RFB	RFB
2	10/26/2021	ASB, RFB	RFB

RECAPITULATION OF QUANTITIES

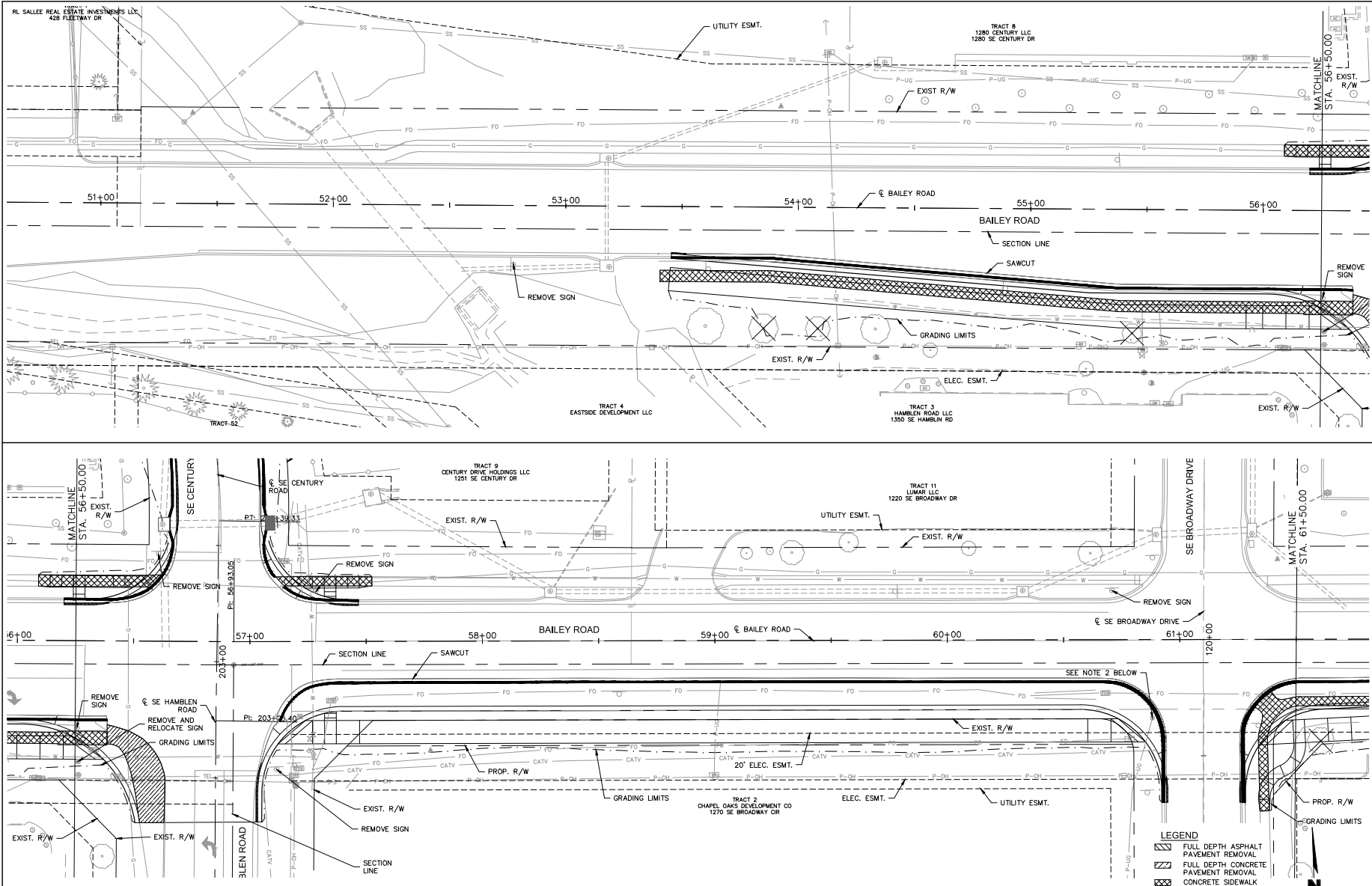
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 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

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 APPROVED BY RFB
 QA/QC BY RFB
 PROJECT NO. 0805010
 DWG NO. T_07101_0200103
 DATE 2021-02-01

SHEET
11 OF 101

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LEGEND

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

SEE NOTE 2 BELOW

SCALE IN FEET: 0' 10' 20' 40'

N

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. STREET LIGHT RELOCATION BY OTHERS. CONTRACTOR SHALL COORDINATE WITH EVERY (PHIL INGRAM 816-347-4339) FOR STREET RELOCATION.

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 Development Services Department
 Lee's Summit, Missouri
 12/15/2021

olsson

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 PE-2002003161
 PROFESSIONAL ENGINEER

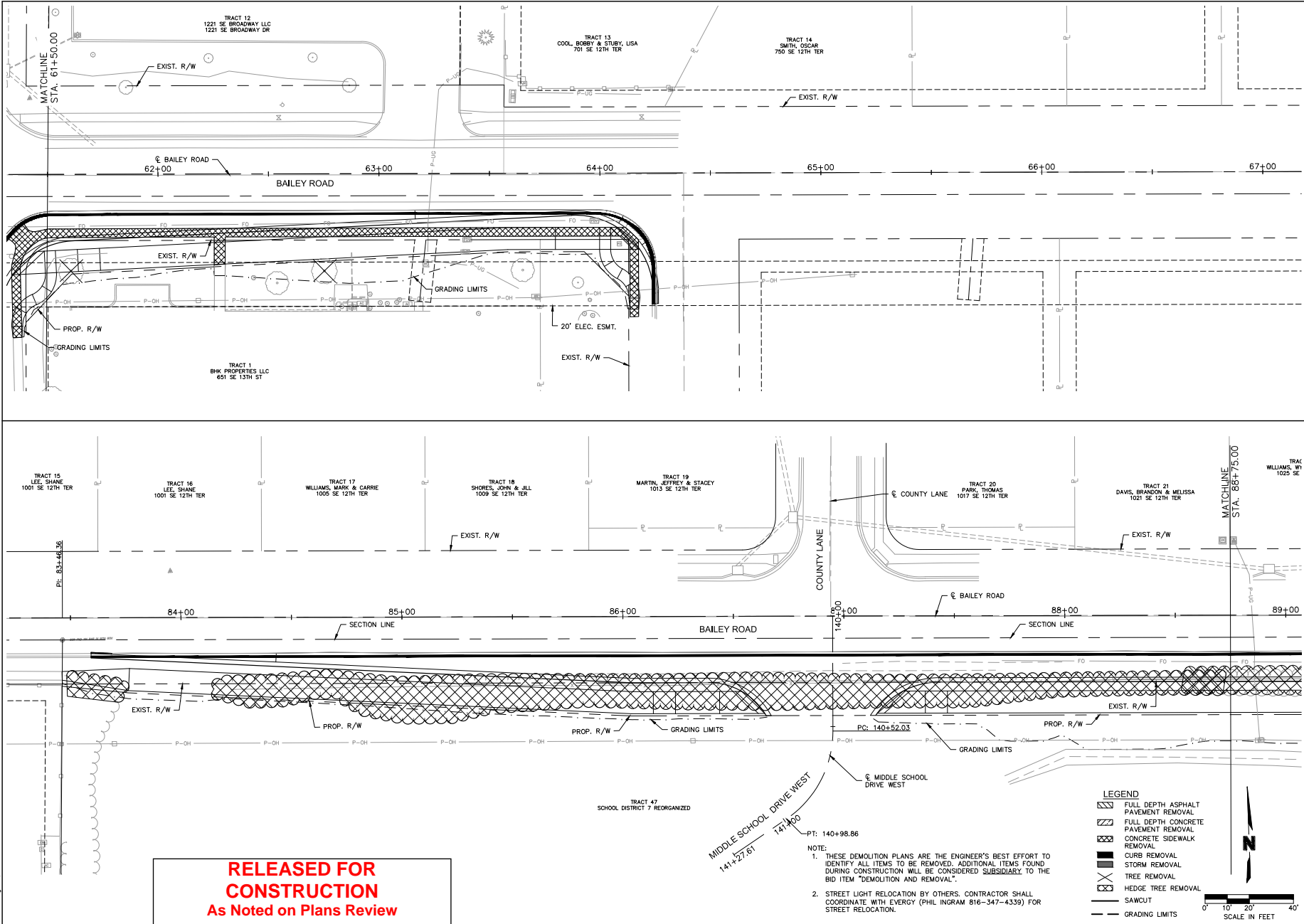
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DEMOLITION & REMOVALS
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

2021

SHEET
 12 OF 101

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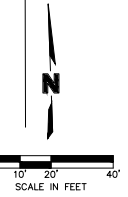
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 Lee's Summit, Missouri
 12/15/2021

- LEGEND**
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- STREET LIGHT RELOCATION BY OTHERS. CONTRACTOR SHALL COORDINATE WITH EVERGY (PHIL INGRAM 816-347-4339) FOR STREET RELOCATION.



DEMOLITION & REMOVALS
BAILEY ROAD

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

LEE'S SUMMIT, MISSOURI

C.O.A. NO. 001592
 DRAWN BY: MS/W
 CHECKED BY: JBE
 APPROVED BY: JBE
 QA/QC BY: JBE
 PROJECT NO.: 0200103
 DWG NO.: T_DMO1_0200103
 DATE: 2021-02-01

SHEET
13 OF 101

RYAN B. FLEMING
 M.O. NO. PE-2002003161

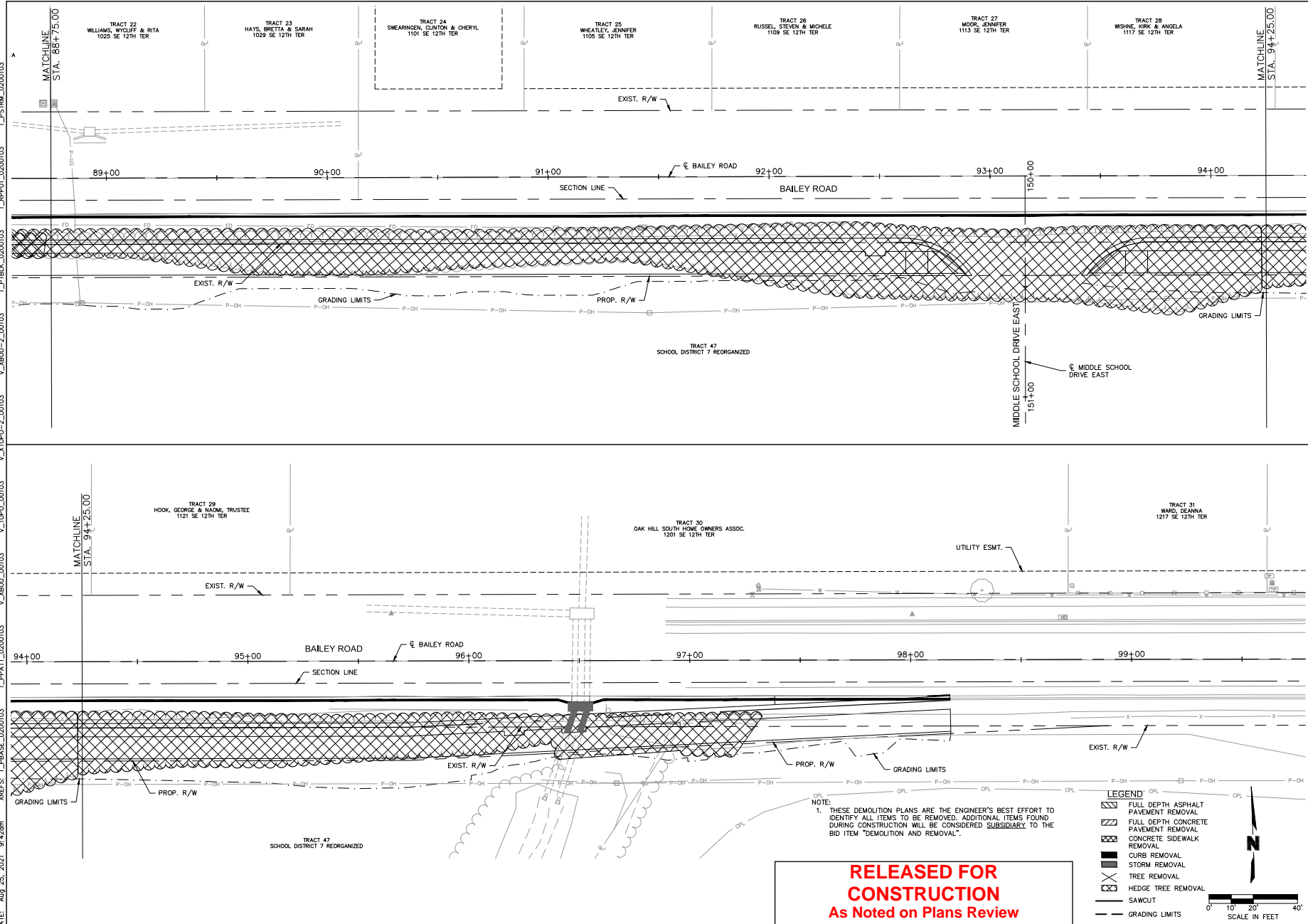
REV. NO.	DATE	REVISION DESCRIPTION

2021

olsson

Olsson Engineering, Inc. State Capital Center, Suite 100, 1001 S. 10th
 7380 West 133rd Street, Suite 200, Overland Park, KS 66209-1170
 TEL: 913.381.1170 FAX: 913.381.1174 www.ollson.com

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 USER: rholter
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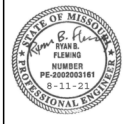


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**Development Services Department
 Lee's Summit, Missouri
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 Overland Park, KS 66203-4750
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 FAX: 913.381.1174
 www.olson.com



RYAN B. FLEMING
 M.O. NO. PE-2002003161

REV. NO.	REVISION DESCRIPTION	DATE

BY: **RYAN B. FLEMING**

REVISIONS

DEMOLITION & REMOVALS
 BAILEY ROAD

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

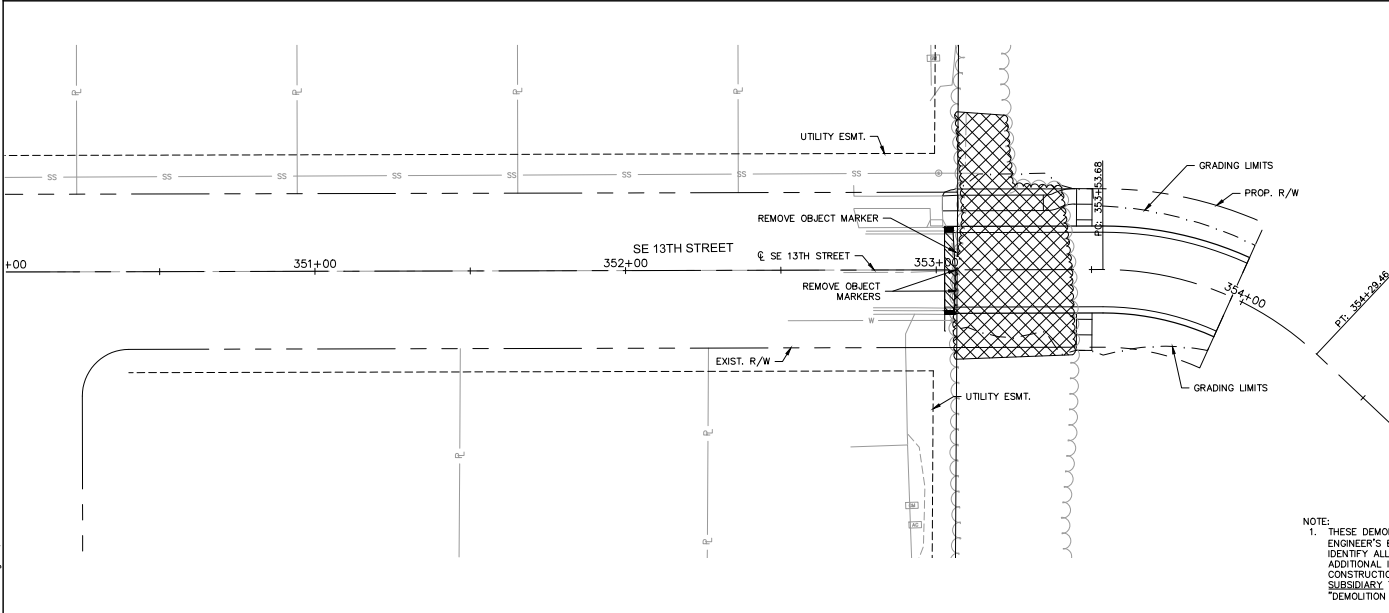
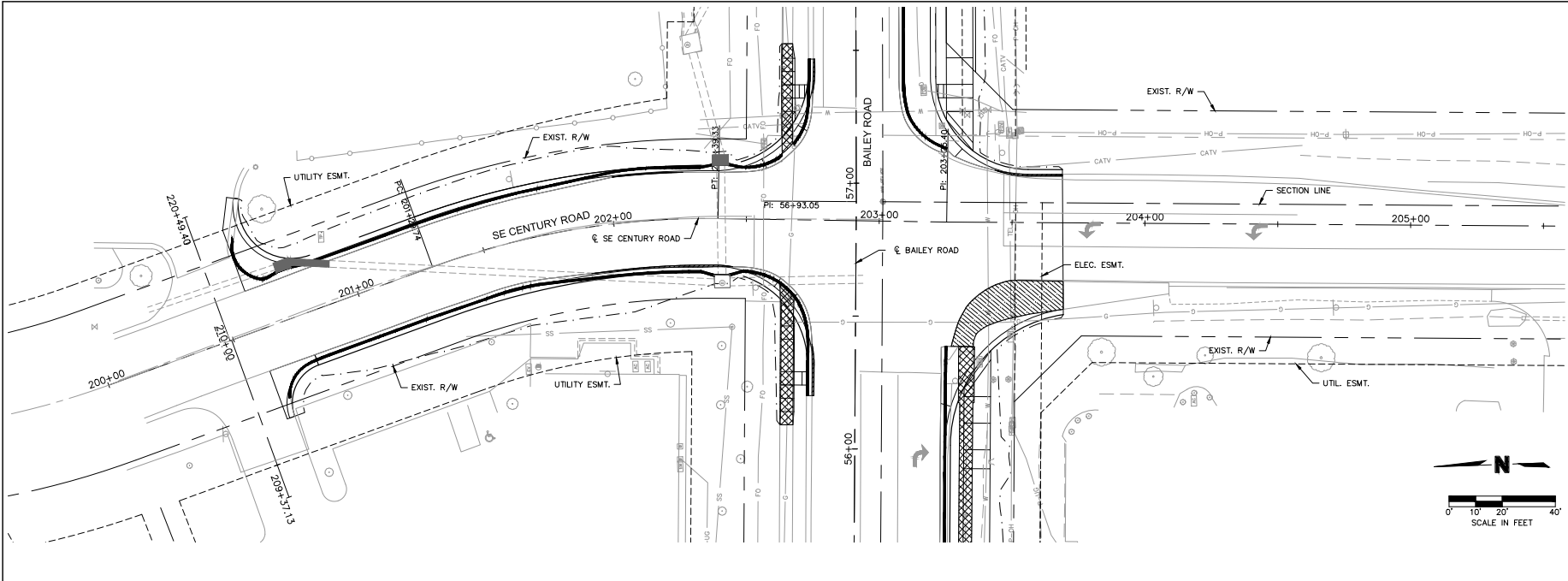
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LEE'S SUMMIT, MISSOURI

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DATE	2021-02-01

SHEET
14 OF 101

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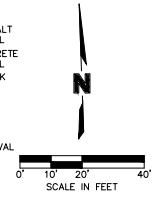
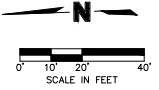


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Lee's Summit, Missouri
12/15/2021**

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 - HEDGE TREE REMOVAL
 - SAWCUT
 - GRADING LIMITS



olsson

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RYAN B. FLEWING
 PE-2002003161
 PROFESSIONAL ENGINEER

REV. NO.	REVISION DESCRIPTION	DATE

DEMOLITION & REMOVALS
 CENTURY DRIVE & 13TH STREET
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

LEE'S SUMMIT, MISSOURI

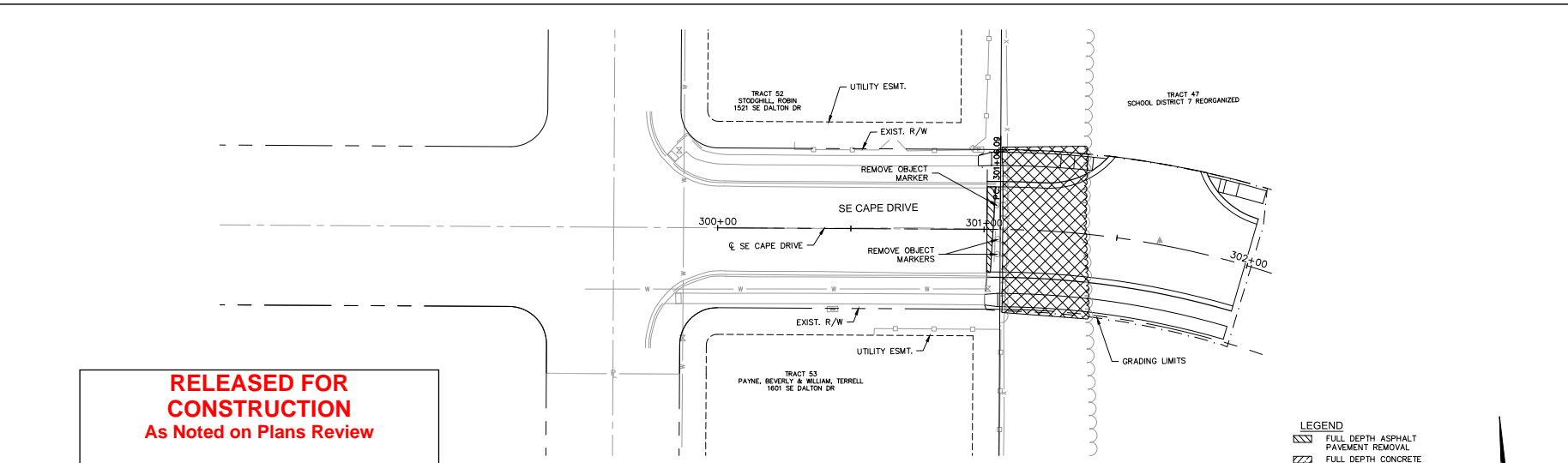
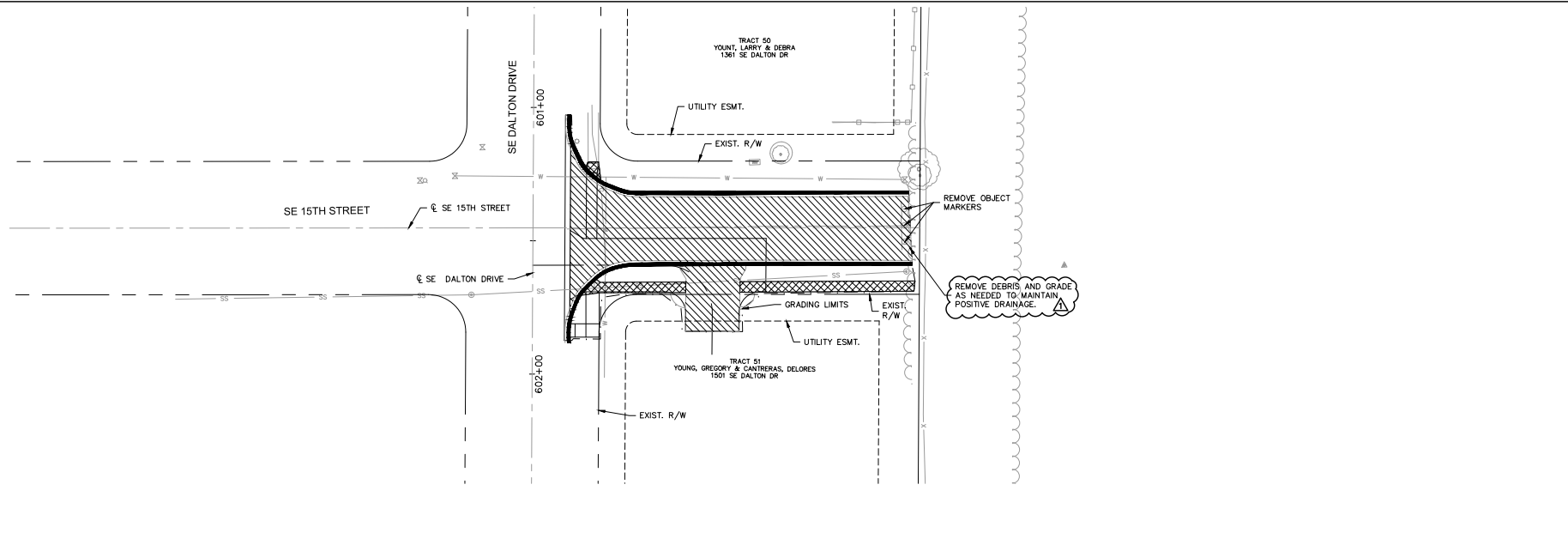
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**SHEET
15 OF 101**

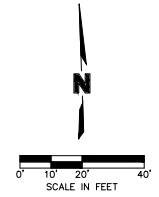
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Lee's Summit, Missouri
12/15/2021



- LEGEND**
- FULL DEPTH ASPHALT PAVEMENT REMOVAL
 - FULL DEPTH CONCRETE PAVEMENT REMOVAL
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 7381 West 133rd Street, Suite 200
 Overland Park, KS 66213-4750
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RYAN B. FLEMING
 M.O. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASR #29	RH

REVISIONS

DEMOLITION & REMOVALS
15TH STREET & CAPE DRIVE

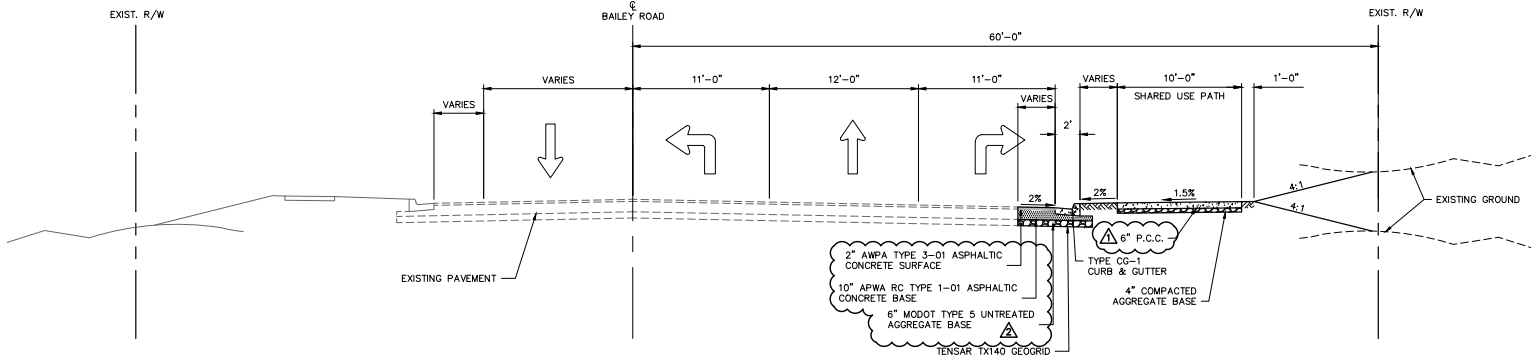
LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

2021

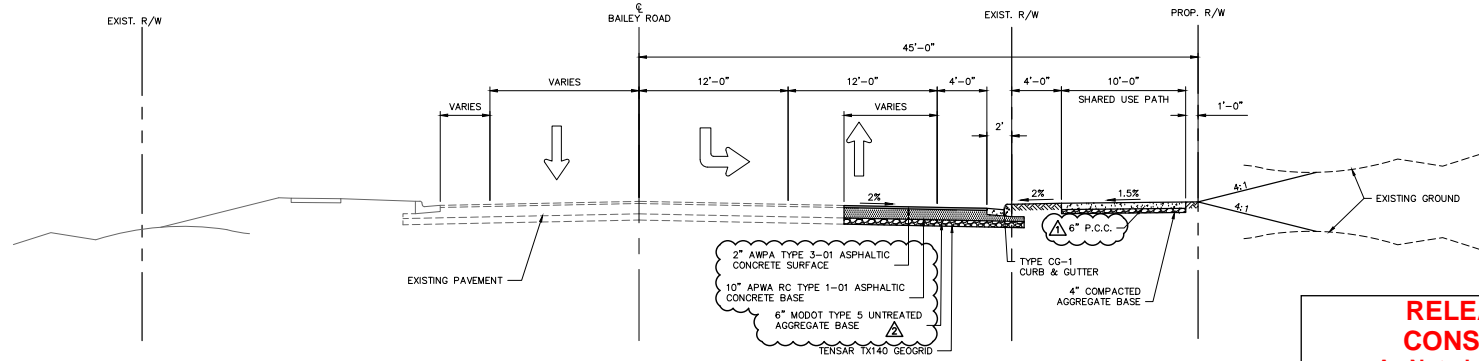
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 APPROVED BY RBE
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SHEET
16 OF 101

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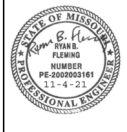
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**TYPICAL SECTION
 BAILEY ROAD**
 NOT TO SCALE
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 STA. 86+04.25 TO STA. 86+38.73
 STA. 87+41.54 TO STA. 92+60.53
 STA. 93+71.24 TO STA. 95+72.70

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**Development Services Department
 Lee's Summit, Missouri
 12/15/2021**

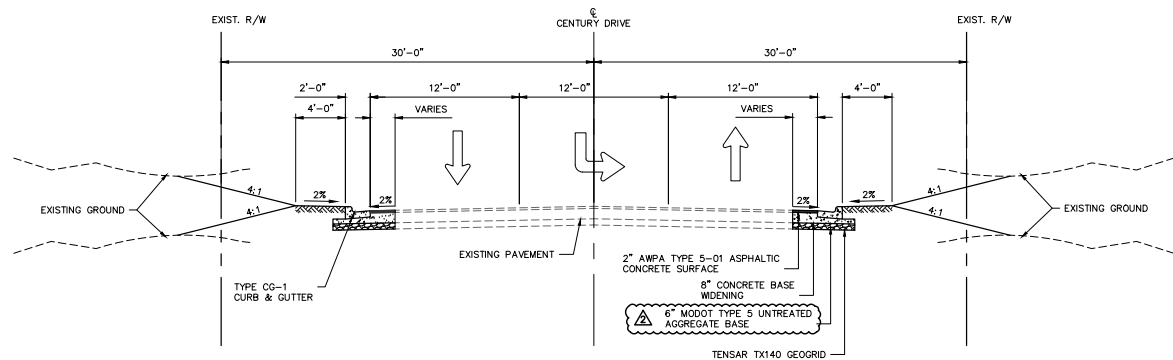


RYAN B. FLEMING M.O. NO. PE-200003161	
BY	RBF
REVISIONS DESCRIPTION	
DATE	
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2	10/28/2021 ASH # 87

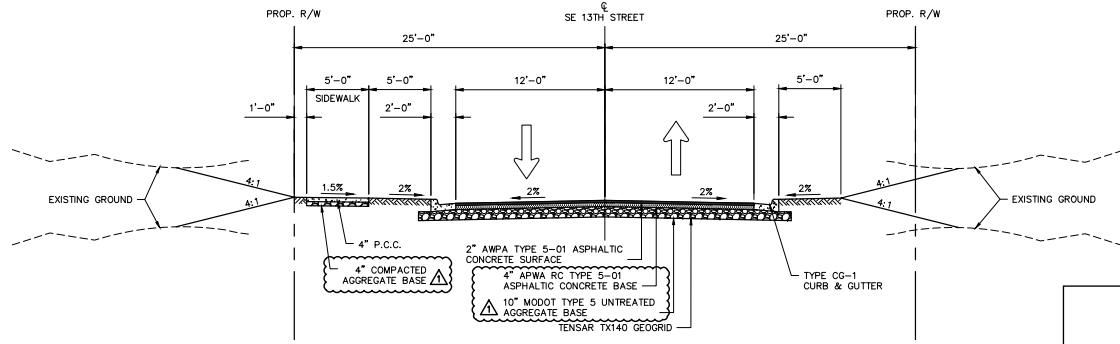
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CHECKED BY	RBF
APPROVED BY	RBF
QA/QC BY	RBF
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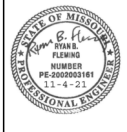
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**TYPICAL SECTION
SE 13TH STREET**
 NOT TO SCALE
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 Lee's Summit, Missouri
 12/15/2021

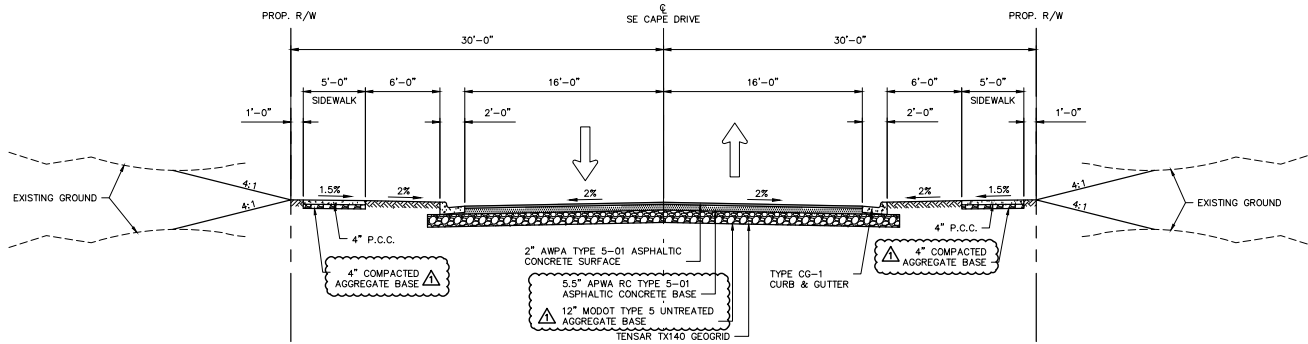


RYAN B. FLEMING	
NO.	DESCRIPTION
1	ASB # 2
2	ASB # 2

TYPICAL SECTIONS	
NO.	DATE
1	09/29/2021
2	10/26/2021

C.O.A. NO.	001582
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CHECKED BY	RBE
APPROVED BY	RBE
QA/QC BY	RBE
PROJECT NO.	0200103
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DATE	2021-02-01

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**TYPICAL SECTION
SE CAPE DRIVE**
 NOT TO SCALE
 STA. 301+01.09 TO STA. 301+21.99

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 Lee's Summit, Missouri
 12/15/2021

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RYAN B. FLEMING
 PROFESSIONAL ENGINEER
 NO. PE-2002003161
 EXPIRES 12-31-23

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASR #29	RBF

REVISIONS

TYPICAL SECTIONS

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

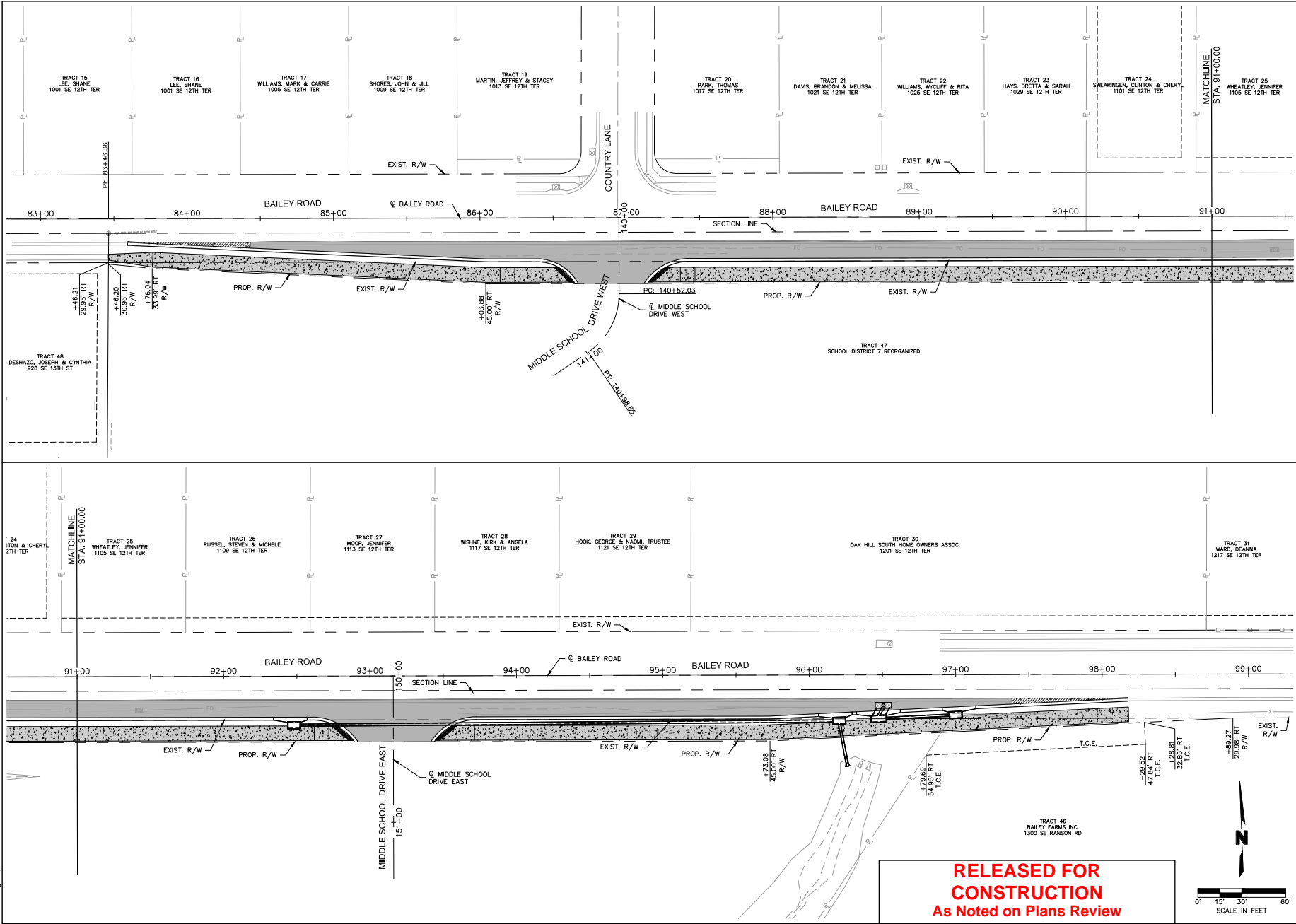
2021

LEE'S SUMMIT, MISSOURI

C.O.A. NO.	001582
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CHECKED BY	RBF
APPROVED BY	RBF
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PROJECT NO.	0200103
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DATE	2021-08-21

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19 OF 101**

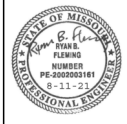
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 1600 East 15th Street, Suite 200
 Overland Park, KS 66213-4150
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 FAX: 913.381.1174
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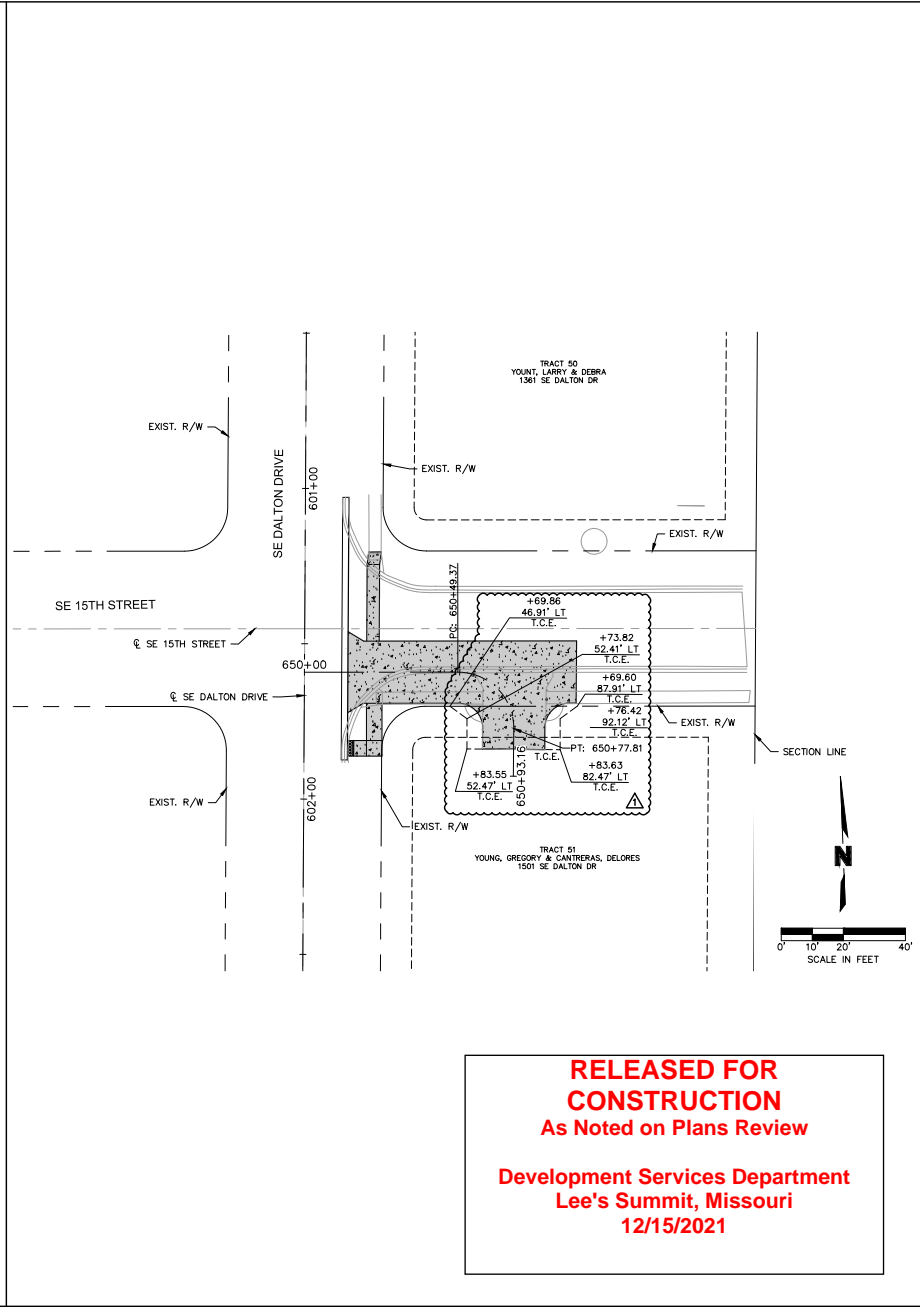
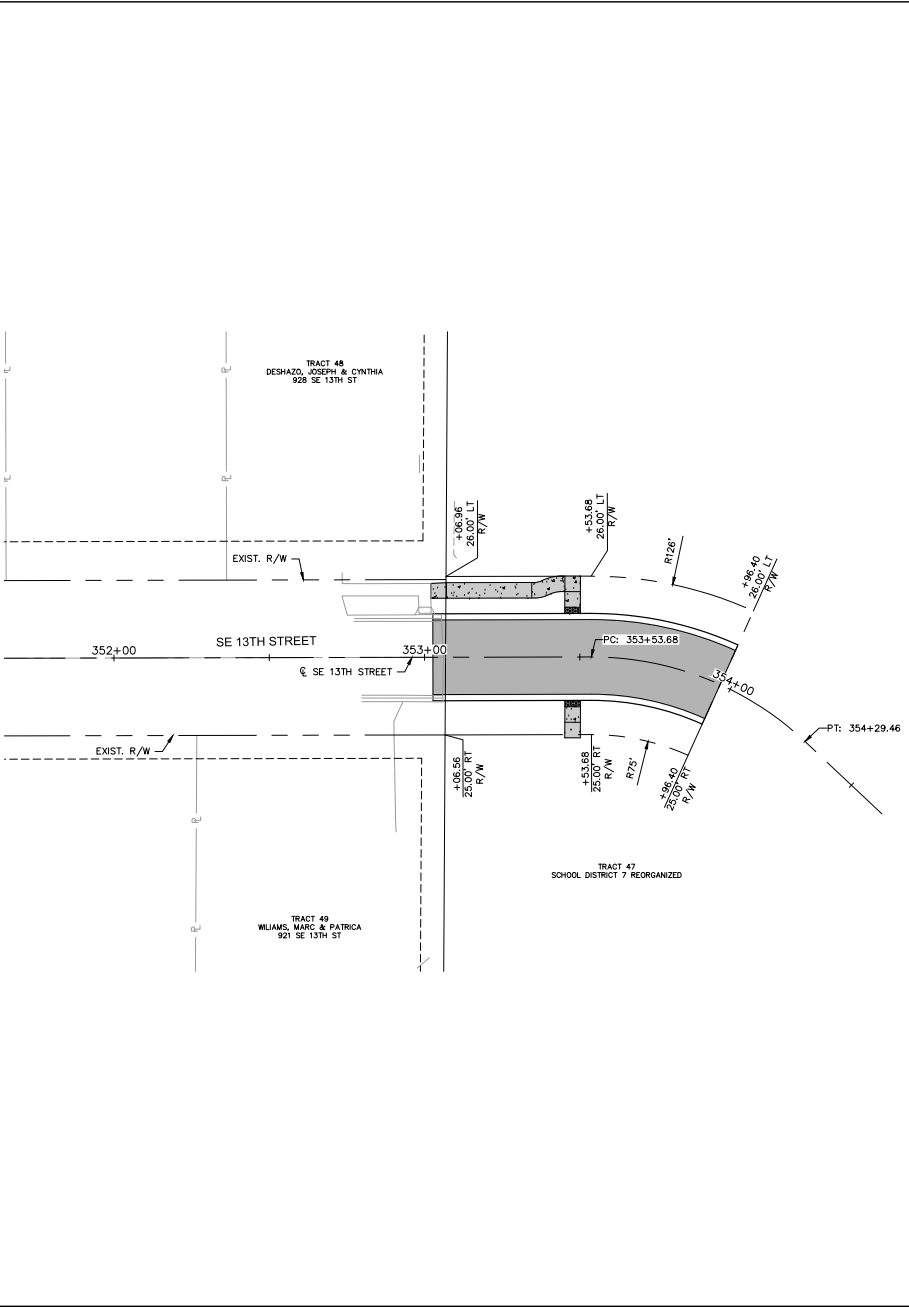


BY	RYAN B. FLEMING
MO. NO.	PE-2002003161
REVISIONS DESCRIPTION	
DATE	
REV. NO.	

RIGHT OF WAY PLANS	2021
BAILEY ROAD	
LEE'S SUMMIT MIDDLE SCHOOL #4	
BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

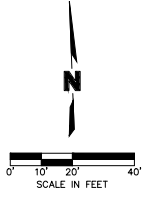
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DRAWN BY	MS/W
CHECKED BY	RFB
APPROVED BY	RFB
QA/QC BY	RFB
PROJECT NO.	00000103
DWG NO.	T_ROW01-0200103
DATE	2021-08-21

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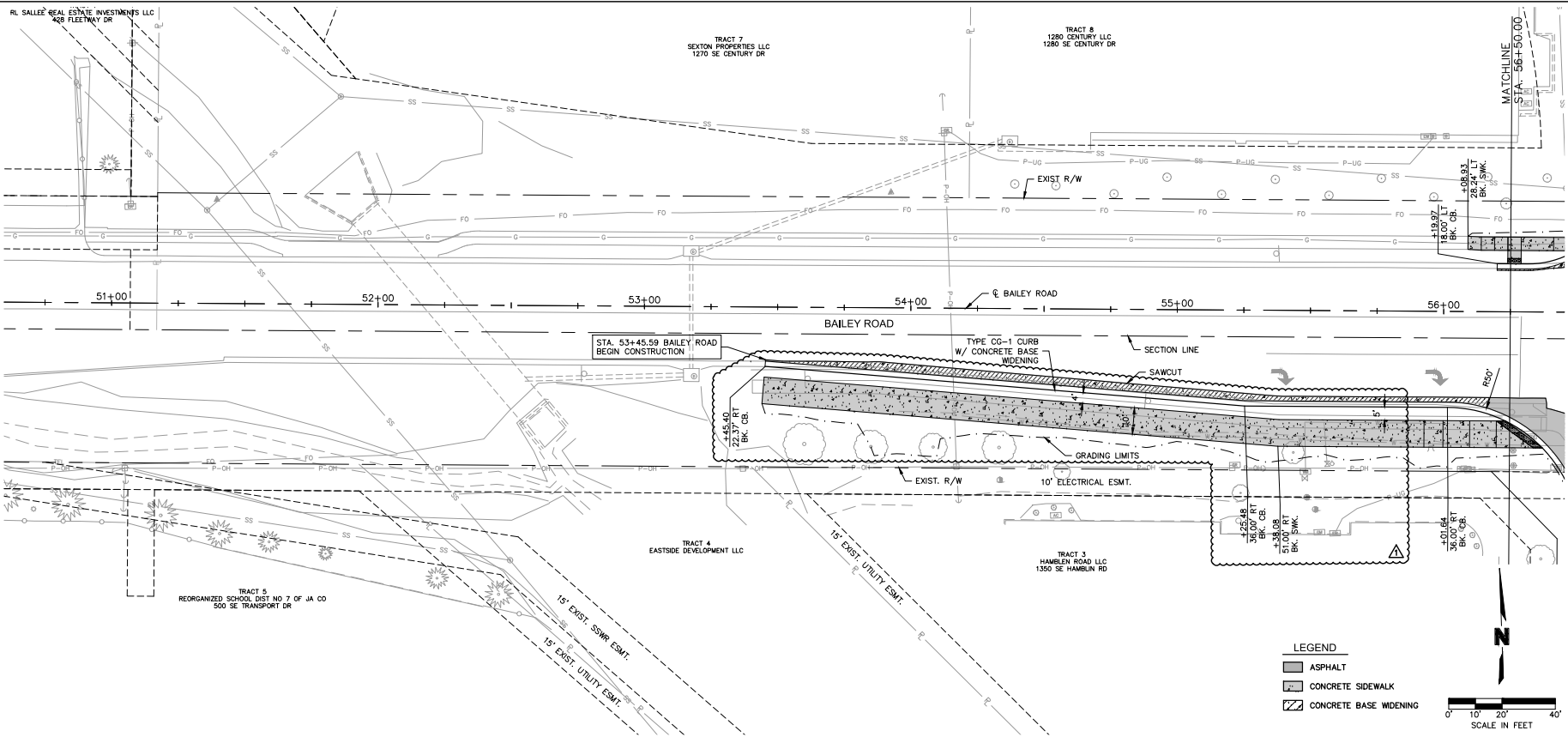
**RELEASED FOR
CONSTRUCTION**
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
12/15/2021



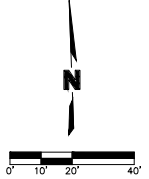
olsson			
Ryan B. Fleming 7381 West 133rd Street, Suite 200 Cleveland Park, KS 66213-4750 TEL: 913.381.1170 FAX: 913.381.1174 www.olsson.com		RYAN B. FLEMING MO. NO. PE-2002003161	
BY	RBF	REVISIONS DESCRIPTION	ASB #29
DATE	08/25/2021	DATE	08/25/2021
REV. NO.	1	DATE	08/25/2021
RIGHT OF WAY PLANS BAILEY ROAD		LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI		2021	
C.O.A. NO. 001592		DRAWN BY MSW	
CHECKED BY RBF		APPROVED BY RBF	
PROJECT NO. 020103		DWG NO. T_ROW\020103	
DATE: 2021-08-21		SHEET 22 OF 101	

DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\Lee Summit Plan Set - (Century and Middle School Drives)\PLAN & PROFILES\BAILEY ROAD\T_RPPO1_0200103.dwg
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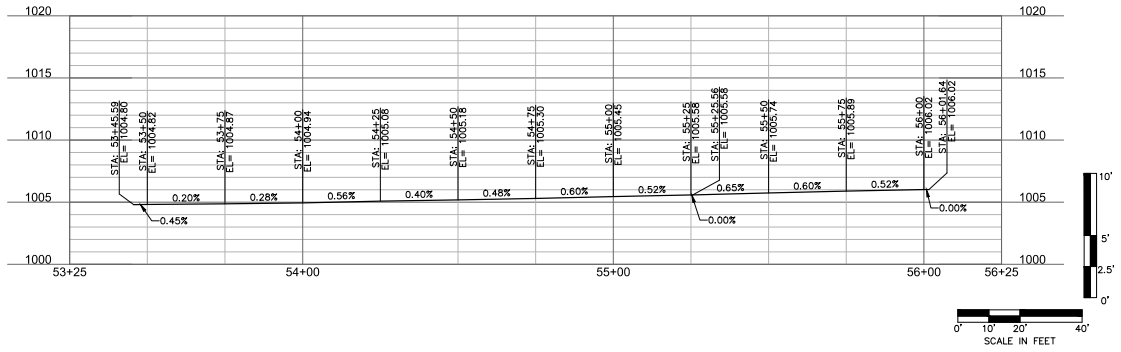


LEGEND

- ASPHALT
- CONCRETE SIDEWALK
- CONCRETE BASE WIDENING



BAILEY ROAD RIGHT EDGE OF PAVEMENT



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**Development Services Department
Lee's Summit, Missouri
12/15/2021**

Olsson Engineering, Inc. State of Missouri, License No. 001592
 7201 West 133rd Street, Suite 200
 Overland Park, KS 66209-4750
 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olsan.com

REVISIONS	BY
NO. DESCRIPTION	DATE
1 ASSE #29	08/25/2021

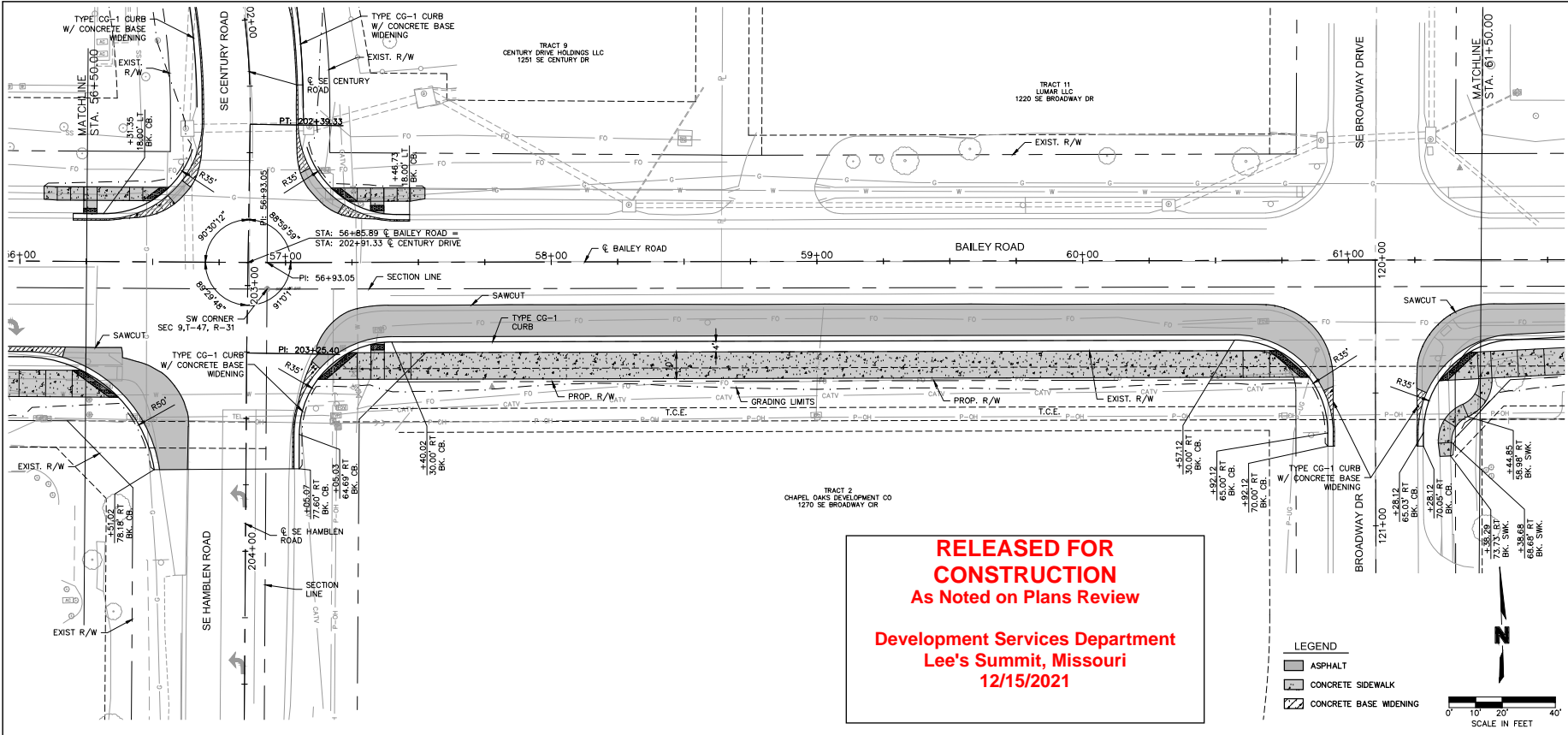
RYAN B. FLEMING
 MO. NO. PE-2002003161

PROJECT NO. 00000103
 DWG NO. T_RPPO1_0200103
 DATE: 2021-08-25

**SHEET
24 OF 101**

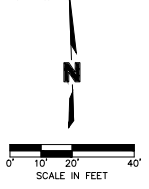
PLAN & EDGE OF PAVEMENT PROFILE
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

DWG: F:\2020\001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\Lee Summit Plan Set - (Century and Middle School Drives)\PLAN & PROFILES\BAILEY ROAD\T_PPR02_0200103.dwg
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 USER: molter

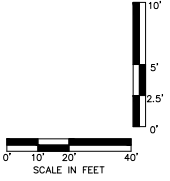
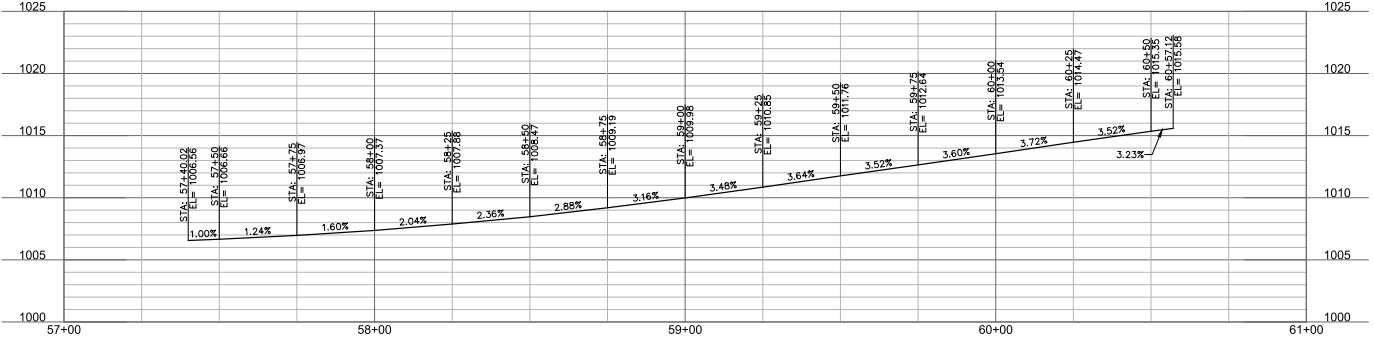



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 Development Services Department
 Lee's Summit, Missouri
 12/15/2021

- LEGEND**
- ASPHALT
 - CONCRETE SIDEWALK
 - CONCRETE BASE WIDENING

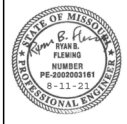


BAILEY ROAD RIGHT EDGE OF PAVEMENT





10000 E. Independence, 100
 7201 West 133rd Street, Suite 200
 Overland Park, KS 66221-4750
 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olsson.com



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 No. PE-2002003161

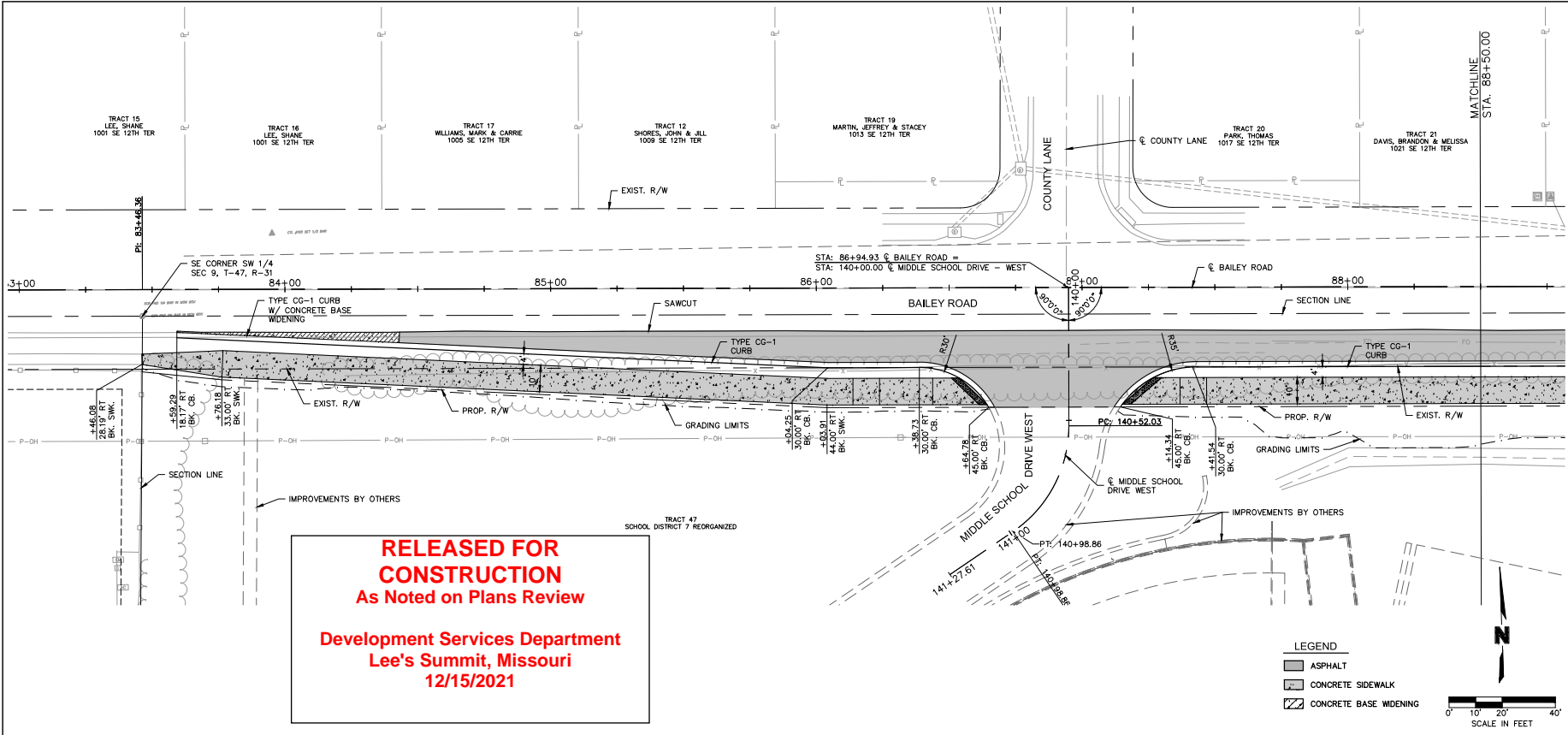
REV. NO.	REVISION DESCRIPTION	DATE	BY

PLAN & EDGE OF PAVEMENT PROFILE
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.G.A. NO. 001592
 DRAWN BY: MSW
 CHECKED BY: RFB
 APPROVED BY: RFB
 G.A.D.C. BY: RFB
 PROJECT NO. 0200103
 DWG NO. T_PPR02_0200103
 DATE: 2021-08-25

SHEET
 25 OF 101

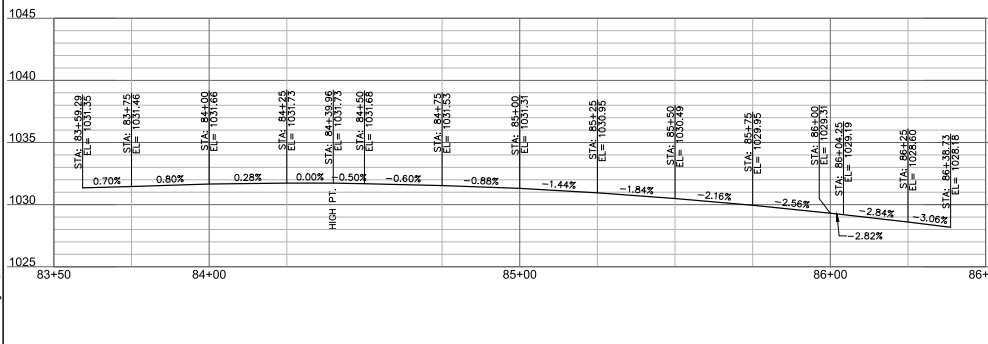
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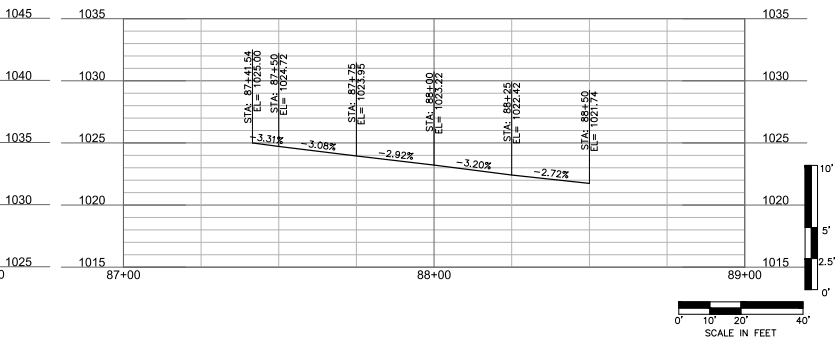
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Development Services Department
 Lee's Summit, Missouri
 12/15/2021

BAILEY ROAD RIGHT EDGE OF PAVEMENT

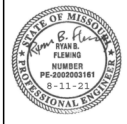


BAILEY ROAD RIGHT EDGE OF PAVEMENT





Olsson Engineering, Inc. 1400 State Center Drive, Suite 200
 7301 West 133rd Street, Suite 200
 Overland Park, KS 66213-4150
 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olsan.com



RYAN B. FLEMING
 NO. PE-200003161
 EXPIRES 12/31/2021

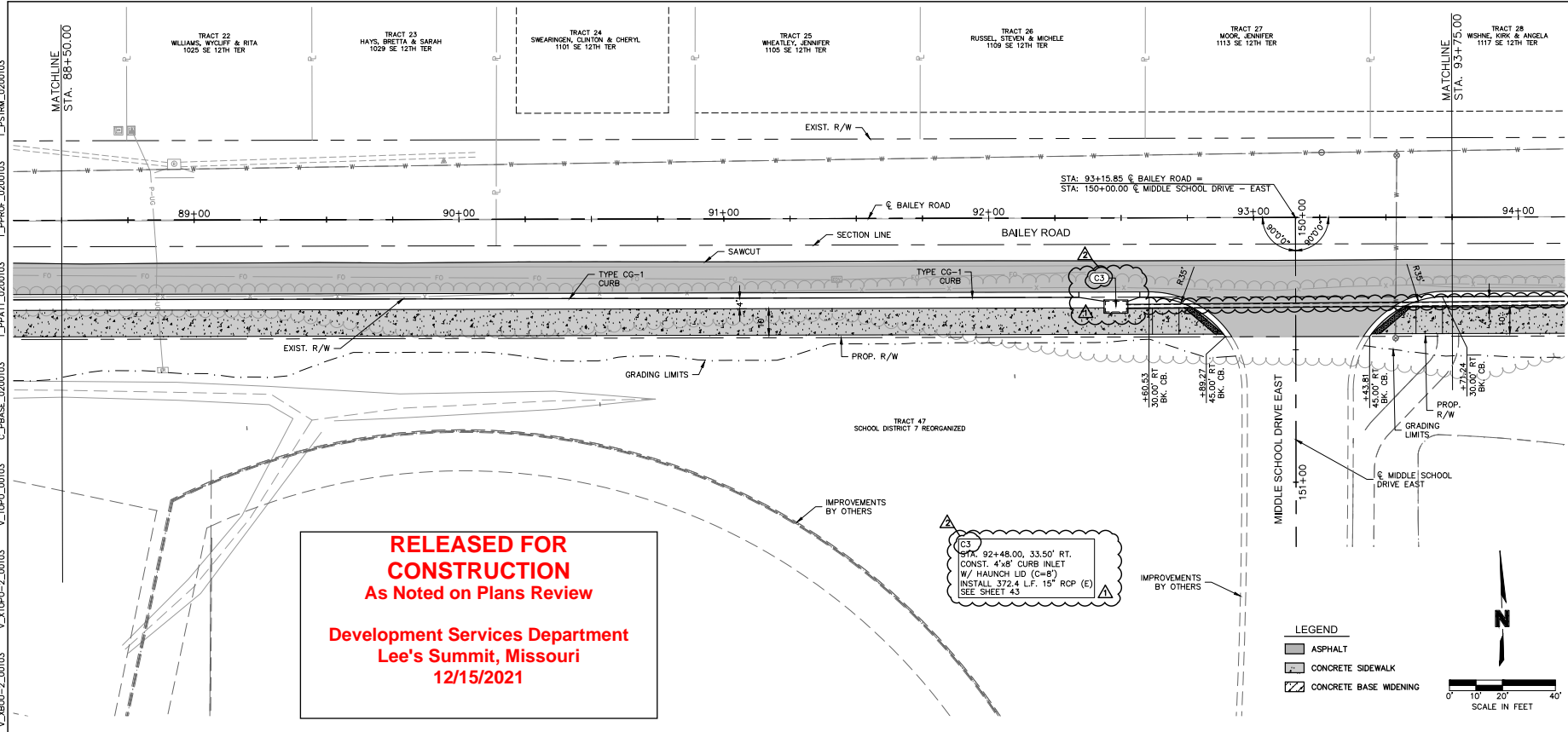
REV. NO.	REVISIONS DESCRIPTION	DATE

PLAN & EDGE OF PAVEMENT PROFILE
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

2021

SHEET 27 OF 101

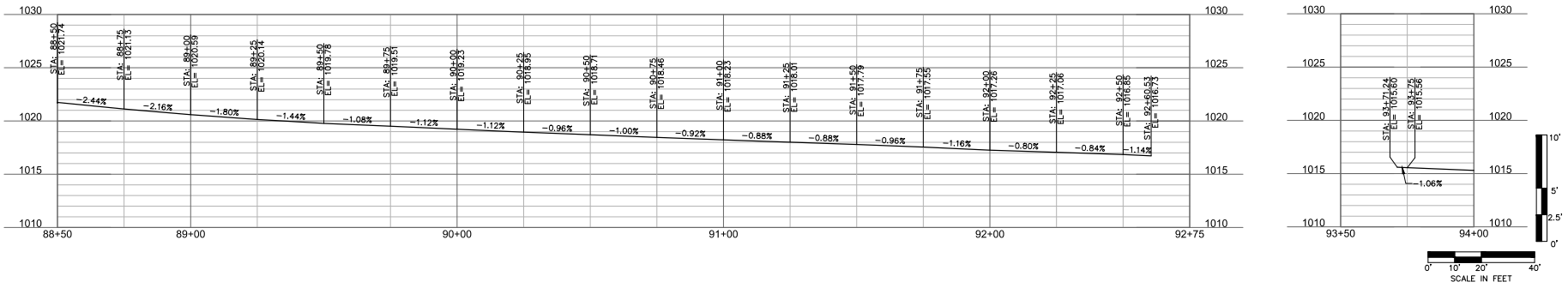
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 Development Services Department
 Lee's Summit, Missouri
 12/15/2021

(C3)
 STA. 92+48.00, 33.50' RT.
 CONST. 4"x8" CURB INLET
 W/ HAUNCH LID (C=B)
 INSTALL 372.4 L.F. 18" RCP (E)
 SEE SHEET 43

BAILEY ROAD RIGHT EDGE OF PAVEMENT



olsson

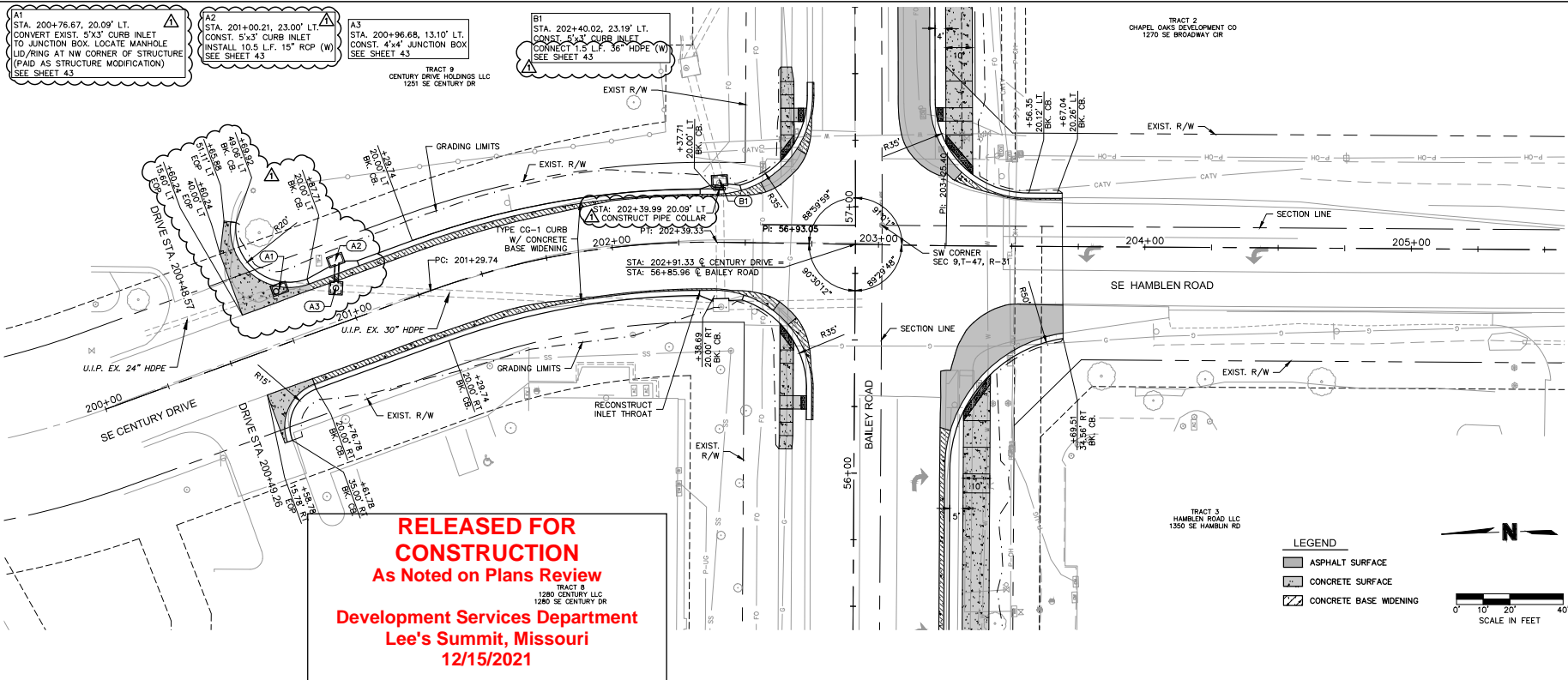
1000 E. Blue Springs Blvd., Suite 200, Blue Springs, MO 64015
 7381 West 131st Street, Suite 200, Overland Park, KS 66223-4750
 TEL: 913.381.1170 FAX: 913.381.1174 www.olson.com

RYAN B. FLEMING
 LICENSED PROFESSIONAL ENGINEER
 NUMBER PE-200003161
 EXPIRES 8-31-2024

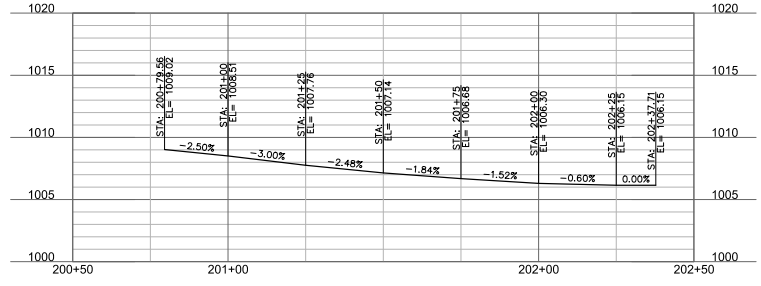
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1	08/25/2021	AS-BUILT
2	10/20/2021	STAKE SHEET REVISION

PROJECT NO. 200003161
 SHEET 28 OF 101
 PLAN & EDGE OF PAVEMENT PROFILE
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI
 2021

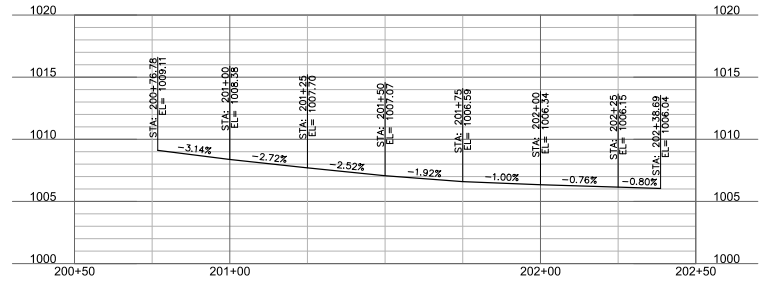
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 USER: mcller T_PSTRM_0200103



SE CENTURY DRIVE LEFT EDGE OF PAVEMENT



SE CENTURY DRIVE RIGHT EDGE OF PAVEMENT



olsson
 1800 E. Independence, 13th Floor, Independence, MO 64015
 7200 West 133rd Street, Suite 200, Overland Park, KS 66213-4750
 TEL: 913.381.1170 FAX: 913.381.1174 www.olson.com

RYAN B. FLEMING
 MISSOURI REGISTERED PROFESSIONAL ENGINEER
 NUMBER PE-200003161
 EXPIRES 8-31-2025

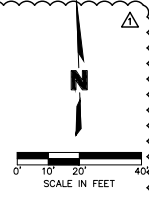
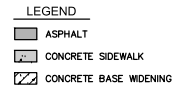
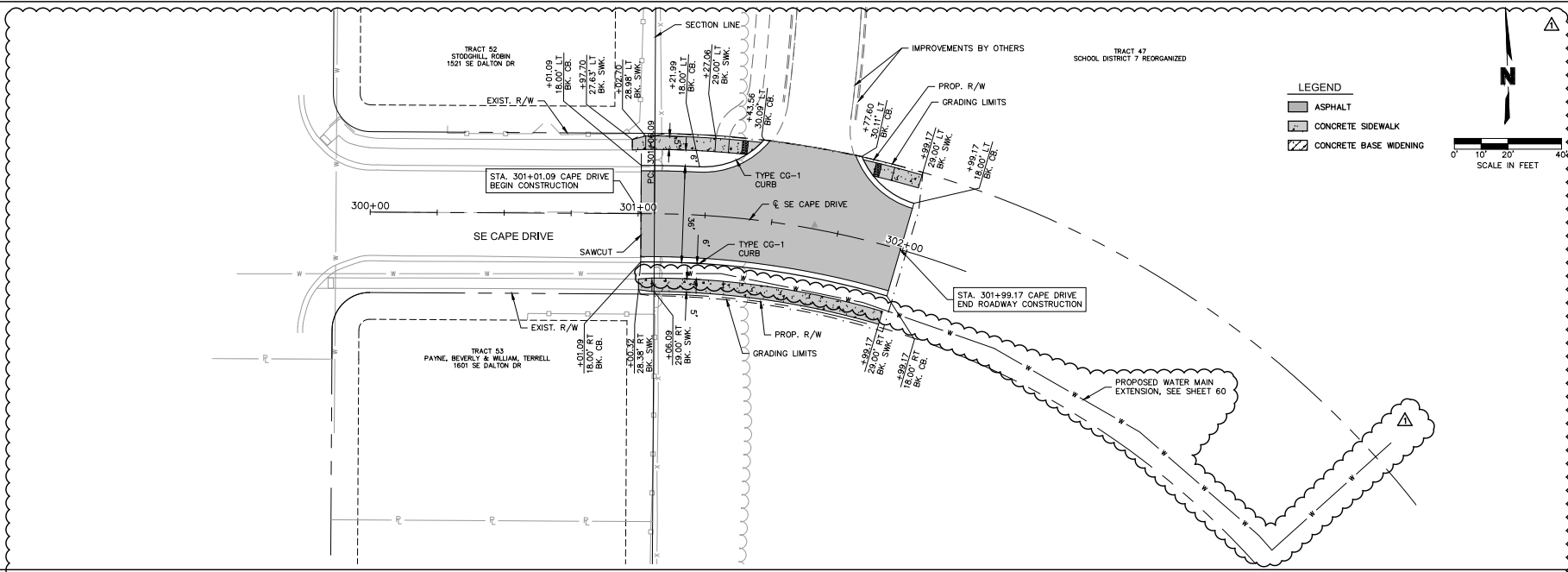
BY: RFL
 MO. NO. PE-200003161

PLAN & EDGE OF PAVEMENT PROFILE
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 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

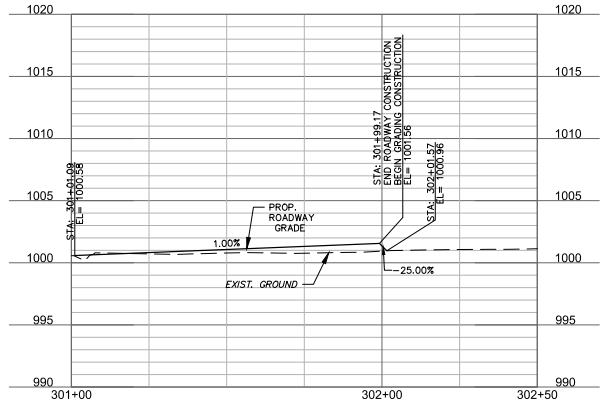
C.O.A. NO. 001582
 DRAWN BY: MSW
 CHECKED BY: RFL
 APPROVED BY: RFL
 G.A.D.C. BY: RFL
 PROJECT NO. 05000103
 DWG NO. T_PRRF0_0200103
 DATE: 2021-08-25

SHEET 30 OF 101

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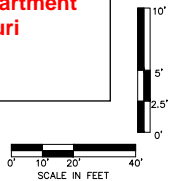


SE CAPE DRIVE



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Development Services Department
 Lee's Summit, Missouri
 12/15/2021



olsson

1600 E. Blue Springs Blvd., Suite 200, Blue Springs, MO 64015
 7381 West 133rd Street, Suite 200, Overland Park, KS 66221-9150
 TEL: 913.351.1170 FAX: 913.351.1174 www.olsan.com

RYAN B. FLEMING
 PE-200203161
 PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION	BY	NO.
1	08/25/2021	ASR #29	RHL	

PLAN & PROFILE
SE CAPE DRIVE

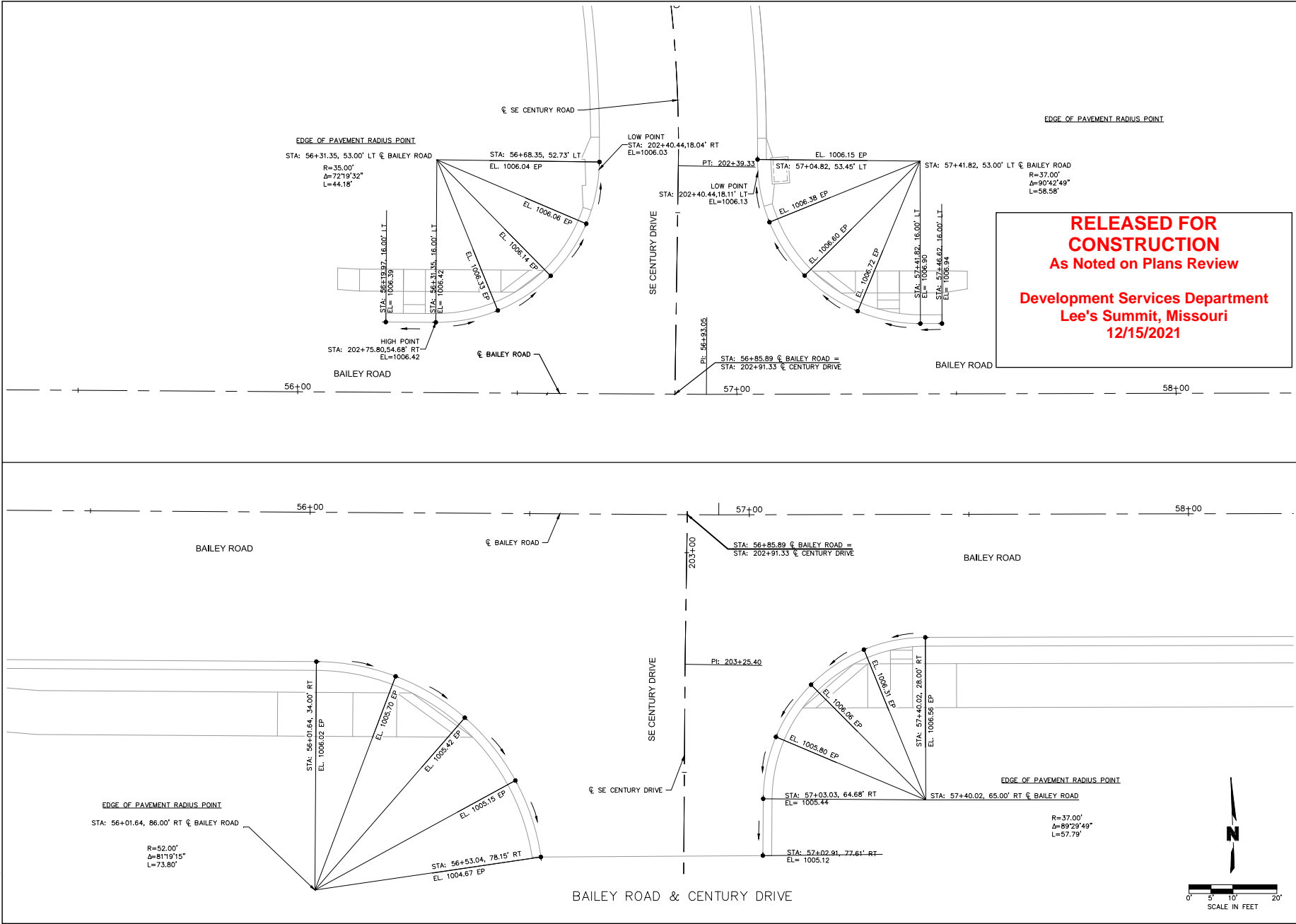
LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

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CHECKED BY	RHL
APPROVED BY	RBE
QA/QC BY	RBE
PROJECT NO.	05000103
DWG NO.	T_RPP09_0200103
DATE	2021-08-21


**SHEET
32 OF 101**

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CONSTRUCTION**
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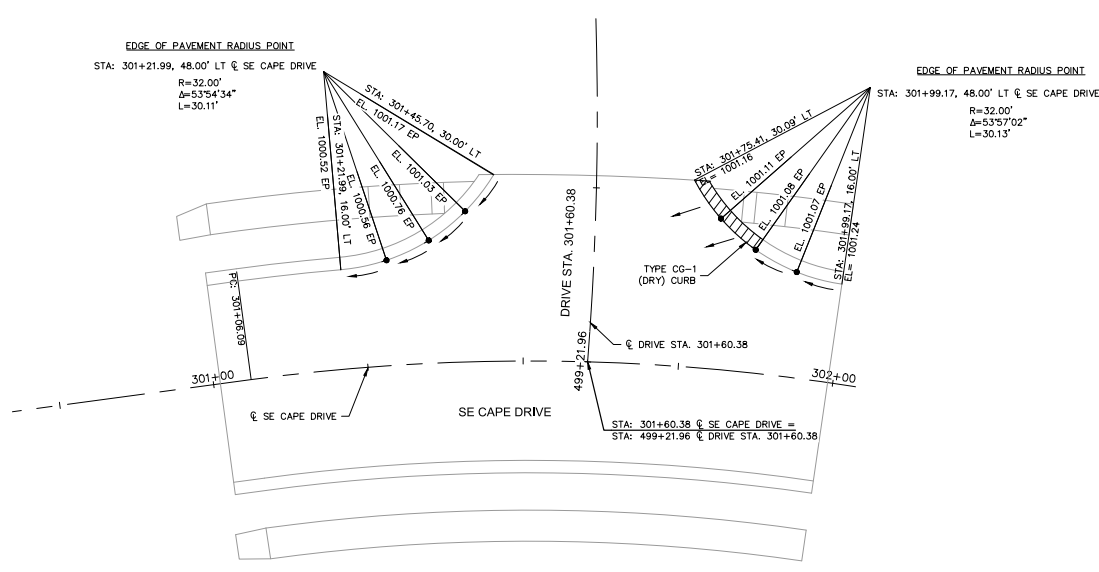
**Development Services Department
Lee's Summit, Missouri
12/15/2021**

	
RYAN B. FLEMING MO. NO. PE-2002003161	
INTERSECTION LAYOUTS LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	2021
G.D.A. NO. _____ 001592 DRAWN BY _____ MS/W CHECKED BY _____ RBE APPROVED BY _____ RBE G.A.D.C. BY _____ RBE PROJECT NO. _____ 00600103 DWG NO. _____ T_INT01_0200103 DATE: _____ 2021-02-01	

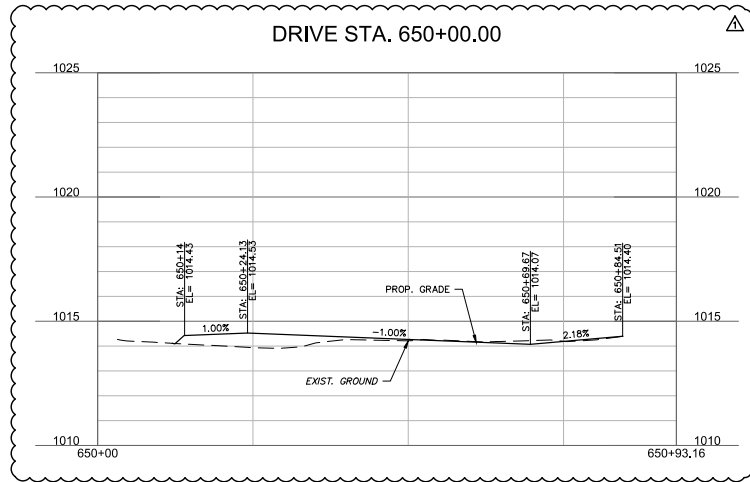
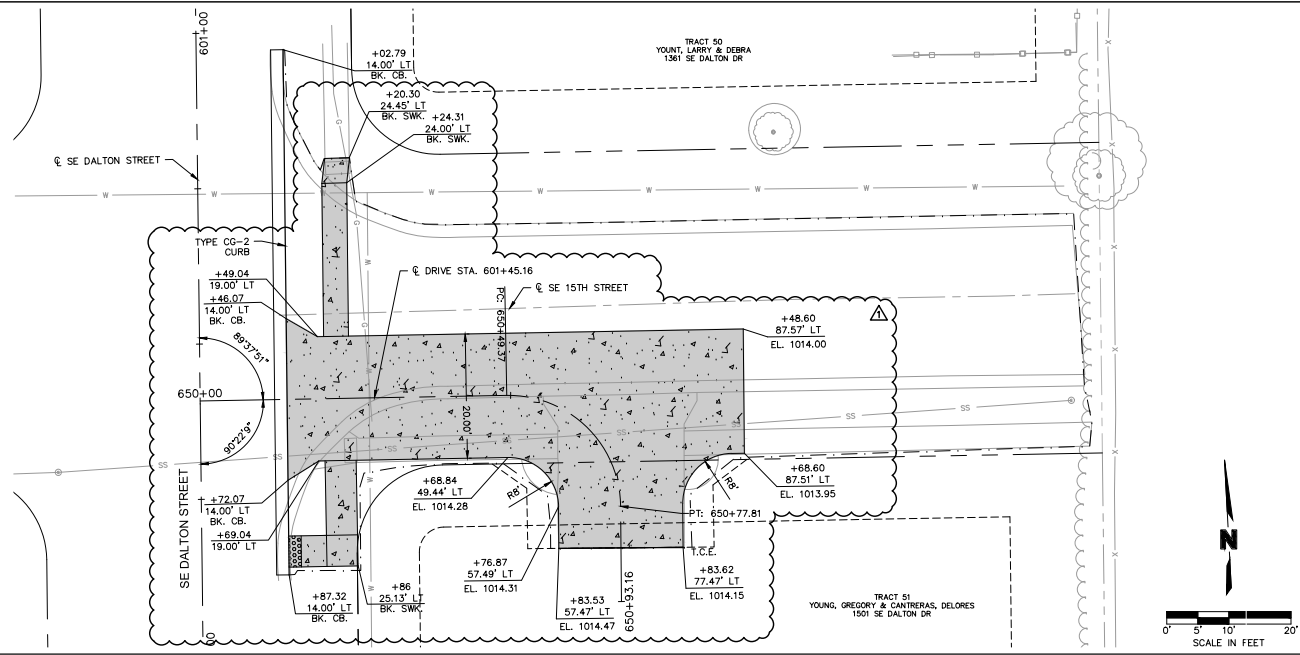
olsson

1600 E. Eisenhower, 1100 Blue, Overland Park, Kansas 66202-1892
 7201 West 133rd Street, Suite 200
 Overland Park, KS 66223-7150
 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olsan.com

DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\Lee Summit Plan Set - (Century and Middle School Drives)\INTERSECTION LAYOUTS\T_INT01_0200103.dwg
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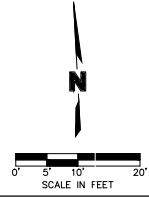


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 C_PHASE_002001



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 Lee's Summit, Missouri
 12/15/2021





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 7201 West 133rd Street, Suite 200
 Overland Park, KS 66213-4750
 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olsan.com



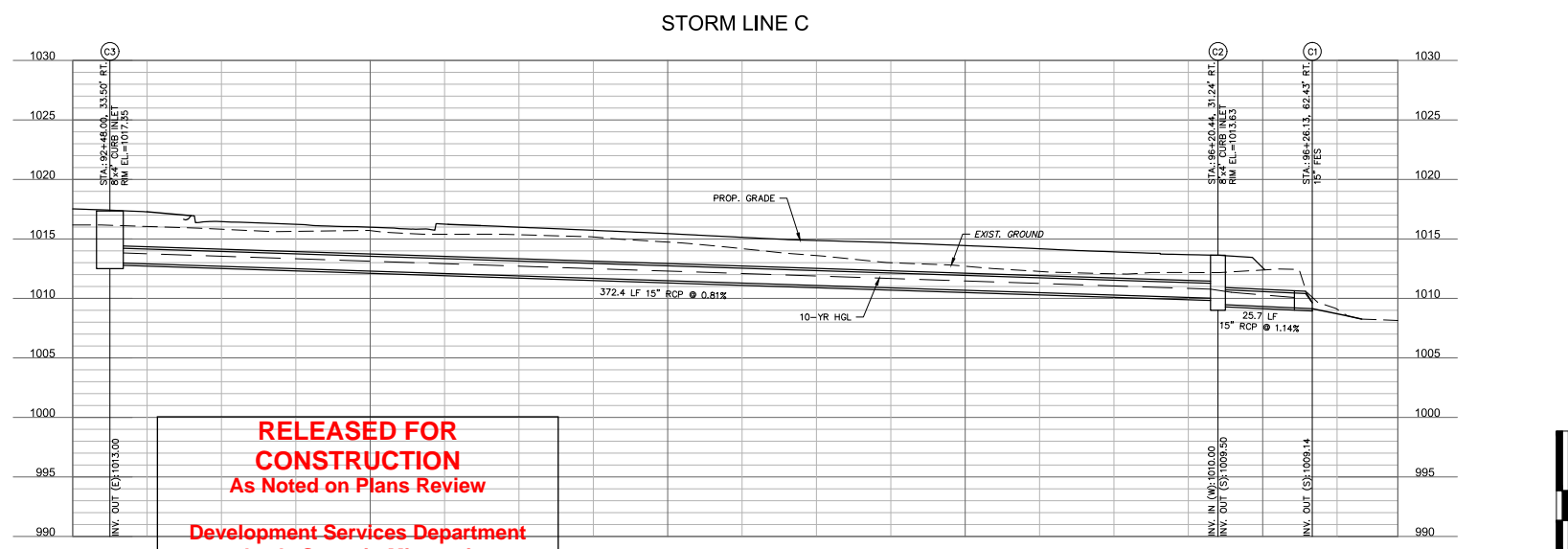
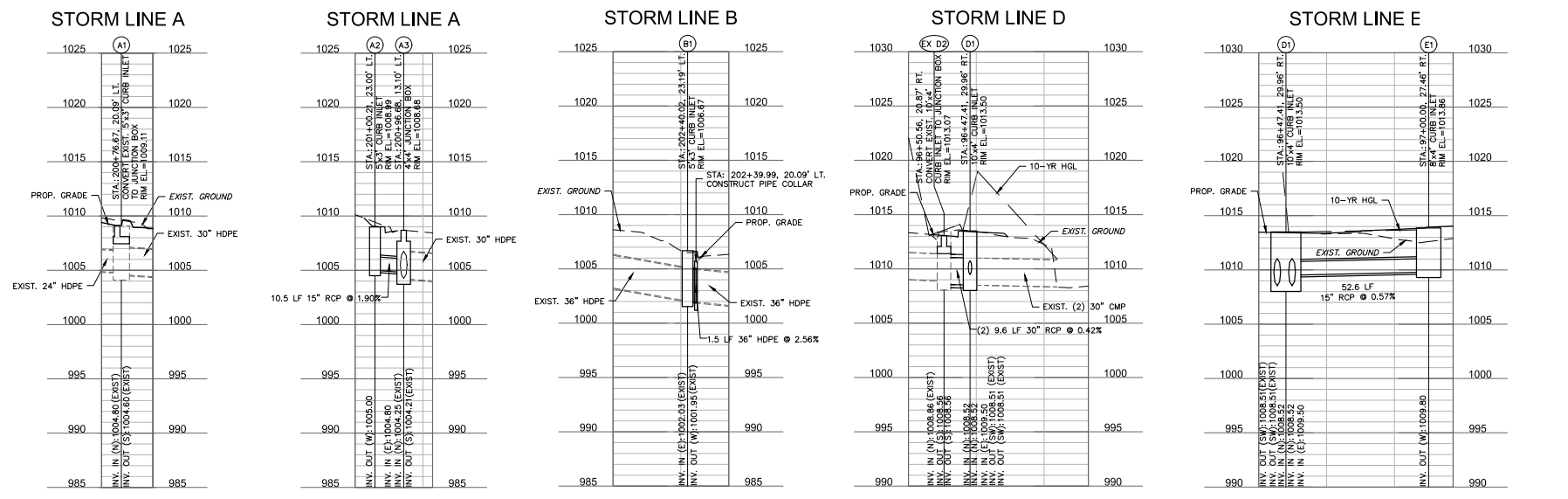
RYAN B. FLEMING
 LICENSE NUMBER
 PE-2002003161
 8-11-23

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	AS SET	RHL

PROJECT NO. 0060103
 DWG NO. T_PRRV_0200103
 DATE: 2021-08-25

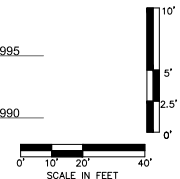
SHEET
38 OF 101

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 DATE: Aug 25, 2021 10:05am
 USER: rchaller
 T_PSTRM_PROF_0200103



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Development Services Department
Lee's Summit, Missouri
12/15/2021



Olsson
 1600 E. Bluebonnet, 1300 Shawnee, Overland Park, KS 66216
 7200 West 133rd Street, Suite 200, Overland Park, KS 66213-1170
 TEL: 913.381.1170 FAX: 913.381.1174 www.ollson.com

RYAN B. FLEMING
 No. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	08/25/2021	ASB #29	RCH

STORM SEWER PROFILES

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

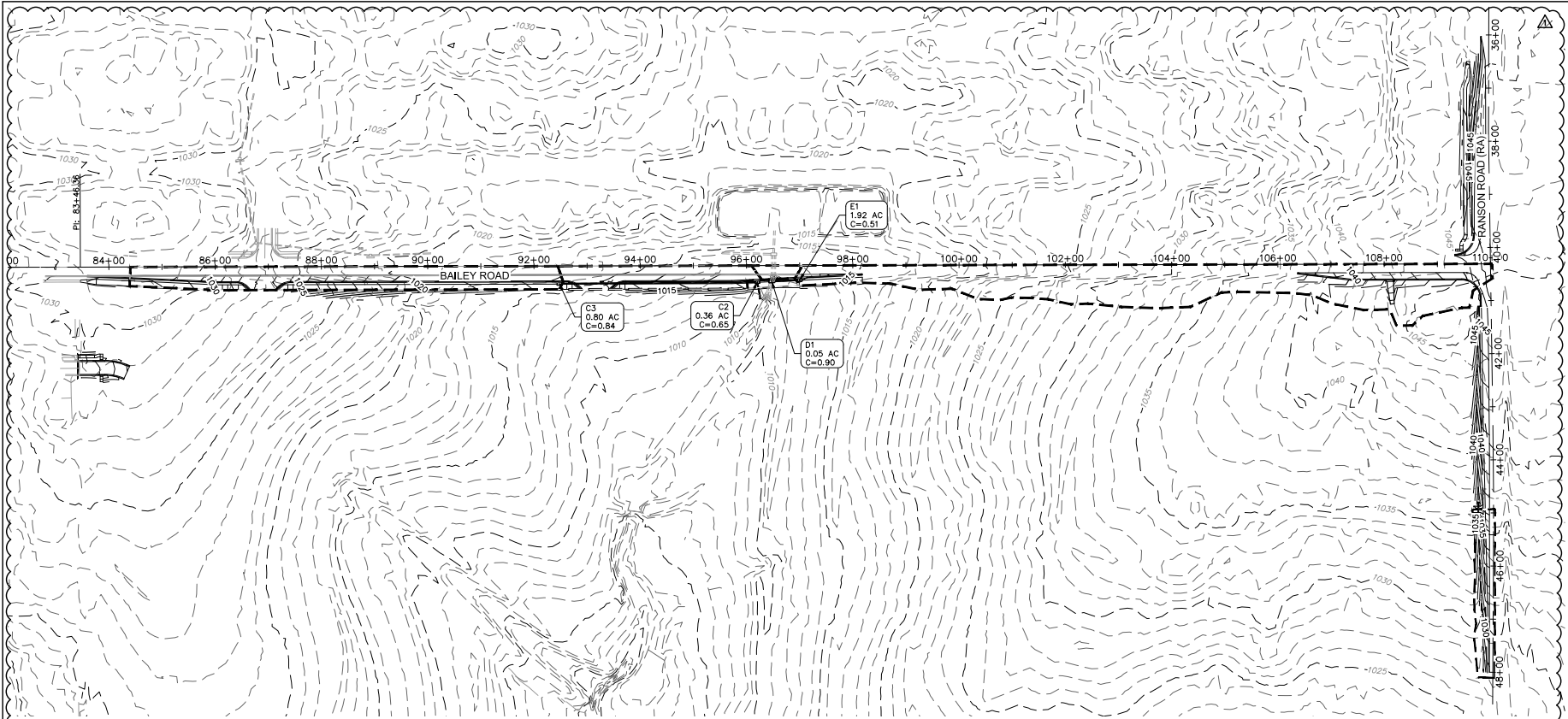
LEE'S SUMMIT, MISSOURI

2021

C.O.A. NO. 001582
 DRAWN BY: MS/W
 CHECKED BY: RFB
 APPROVED BY: RFB
 G.A.D.C. BY: RFB
 PROJECT NO. 00000000
 DWG NO. T_STRM01_0203004
 DATE: 2021-08-25

SHEET
43 OF 101

DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\Lee Summit Plan Set - (Century and Middle School Drives)\STORM DRAINAGE & CALCULATIONS\T_DRNO1_0200103.dwg
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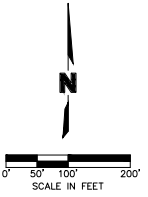


10 YEAR STORM SEWER STRUCTURES

Label	Inlet	Inlet Location	Elevation (Rim) (ft)	Elevation (Invert) (ft)	Inlet C	Inlet Drainage Area (acres)	Total Inlet Tc (min)	Local Intensity (in/h)	System Intensity (in/h)	System Rational Flow (cfs)	Curb Opening Length (ft)	Flow (Captured) (cfs)	Flow (Total Bypassed) (cfs)	Capture Efficiency (Calculated) (%)	Bypass Target	Longitudinal Slope (Inlet) (%)	Road Cross Slope (%)	Spread / Top Width (ft)	Depth (Gutter) (in)
C2	Standard Curb Inlet	On Grade	1,013.63	1,009.50	0.65	0.36	5.00	7.35	7.00	6.27	6.00	2.45	0.13	95.00	D1	0.51	2.00	10.80	2.60
C3	Standard Curb Inlet	On Grade	1,017.35	1,013.00	0.84	0.80	5.00	7.35	7.35	4.13	8.00	4.13	0.85	83.00	C2	1.09	2.00	12.00	2.90
D1	Standard Curb Inlet	In Sag	1,013.50	1,008.51	0.90	0.05	5.00	7.35	5.17	210.55	8.00	3.19	0.00	100.00	N/A	N/A	2.00	11.00	3.20
E1	Standard Curb Inlet	On Grade	1,013.86	1,009.80	0.51	1.92	9.80	6.12	6.12	3.82	8.00	3.82	2.27	62.70	D1	1.15	2.00	12.60	3.50

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As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
12/15/2021



olsson

Olsson Engineering, Inc. 2000 West 133rd Street, Suite 200
Overland Park, KS 66209-4750
TEL: 913.381.1170
FAX: 913.381.1174
www.olson.com

RYAN B. FLEMING
Professional Engineer
No. PE-200003161
Exp. 12/31/2021

REV. NO.	DATE	DESCRIPTION	BY
1	08/25/2021	ASR #2	RFL

DRAINAGE MAP &
STORM SEWER CALCULATIONS

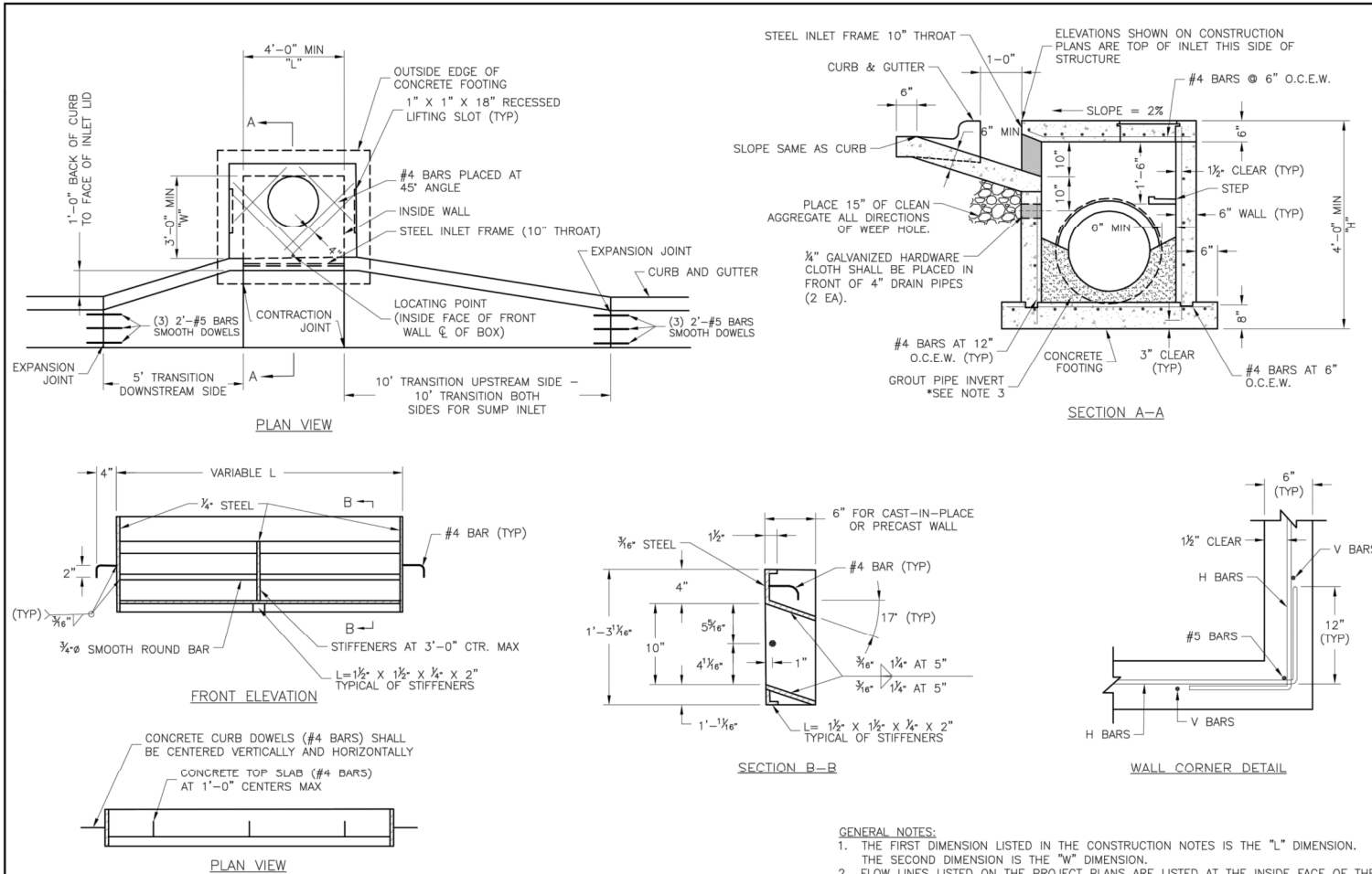
LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

2021

C.O.A. NO. 001592
 DRAWN BY: MS/W
 CHECKED BY: RFL
 APPROVED BY: RFL
 GAUC BY: RFL
 PROJECT NO. 0060003
 DWG NO. T_DRNO1_0200103
 DATE: 2021-08-21

SHEET
44 OF 101

DWG: F:\2020\001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\Lee Summit Plan Set - (Century and Middle School Drives)\DETAILS\STORM SEWER DETAILS\STM1.DWG USER: molter
 DATE: Aug 25, 2021 10:06am REF: T:\P\PL\0500103



STEEL FRAME NOTES:
 1. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE AWS SPECIFICATIONS AND PROCEDURES.
 2. ALL WELDS ON EXPOSED SURFACES SHALL BE DRESSED SO AS TO PROVIDE A PLEASING FINISHED APPEARANCE.
 3. THE ENTIRE FRAME SHALL BE PAINTED A SINGLE COAT OF CHEM-PRIME #37H-78 PRIMER (GRAY) OR EQUAL.

GENERAL NOTES:
 1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
 2. FLOW LINES LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
 3. FLOOR OF INLET GROUDED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
 4. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
 5. STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY ON BLANK WALL IF POSSIBLE.
 6. BEVEL ALL EXPOSED EDGES WITH 3/4" CHAMFER OR 1/2" TOOLED EDGE.
 7. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
 8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
 9. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON-SHRINKABLE GROUT
 10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

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 Development Services Department
 Lee's Summit, Missouri
 12/15/2021

**LEE'S SUMMIT
 MISSOURI**

PUBLIC WORKS ENGINEERING DIVISION | 2202 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO

Sheet Name: CURB INLET DETAIL

STM-1

olsson

RYAN B. FLEMING
 PROFESSIONAL ENGINEER
 NO. 0000003161
 EXPIRES 12/31/2023

RYAN B. FLEMING
 MO. NO. PE-0000003161

REV. NO.	DATE	REVISION DESCRIPTION

REVISIONS

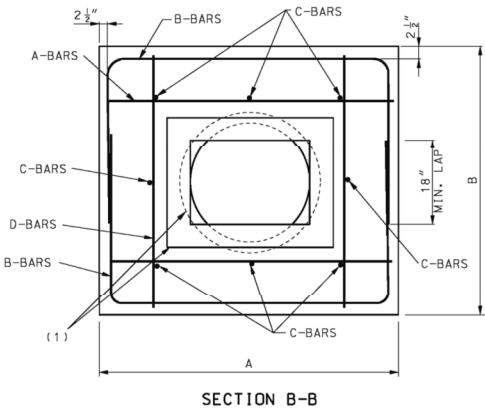
2021

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

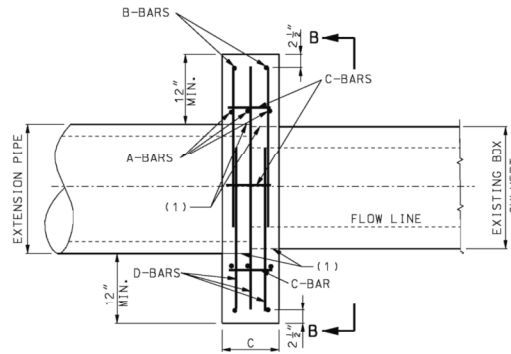
C.O.A. NO. 001592
 DRAWN BY: MSW
 CHECKED BY: BBE
 APPROVED BY: BBE
 DATE: 04/17
 PROJECT NO. 0000003
 DWG NO. STM1.DWG
 DATE: 2021-08-21

SHEET
 45 OF 101

DWG: F:\2020\001-0500\020-0103\45-Design\AutoCAD\Final Plans\Sheets\DRBR\Lee Summit Plan Set - (Century and Middle School Drives)\DETAILS\STORM SEWER DETAILS\T_STRMDT01_0200103.dwg
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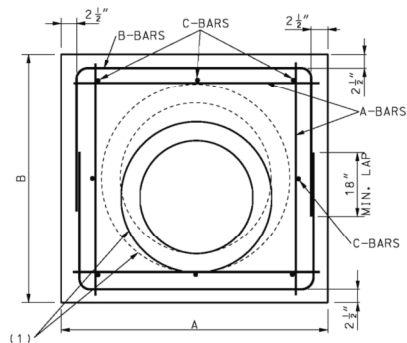


SECTION B-B

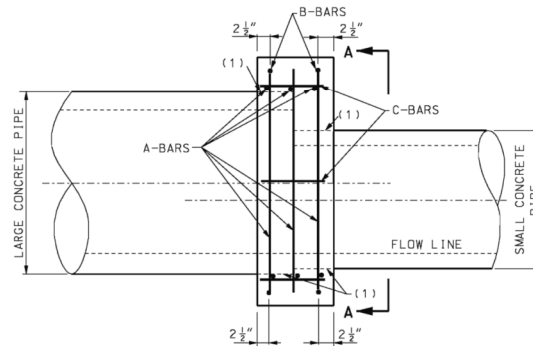


ELEVATION
(FOR BOX CULVERT TO PIPE)

TYPE C COLLAR



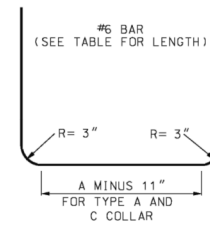
SECTION A-A



ELEVATION
(FOR CONCRETE PIPE TO CONCRETE PIPE)

TYPE A COLLAR

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 As Noted on Plans Review
 Development Services Department
 Lee's Summit, Missouri
 12/15/2021



BENDING DIAGRAM FOR B-BARS

(1) ONE LAYER COMMERCIALY AVAILABLE
 55-POUND ROLL ROOFING.

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

PIPE COLLARS

DATE EFFECTIVE: 10/01/2000
 DATE PREPARED: 8/21/2009

604.40F

SHEET NO. 1 OF 2

C.O.A. NO. 001582
 DRAWN BY: MS/W
 CHECKED BY: JBE
 APPROVED BY: JBE
 G.A.D.C. BY: JBE
 PROJECT NO. 00000003
 DWG NO. STRMDT01_0200103
 DATE: 2021-02-01



BY	RYAN B. FLEMING
NO.	PE-2002003161
REV. NO.	
DATE	
REVISIONS DESCRIPTION	

STORM SEWER DETAILS

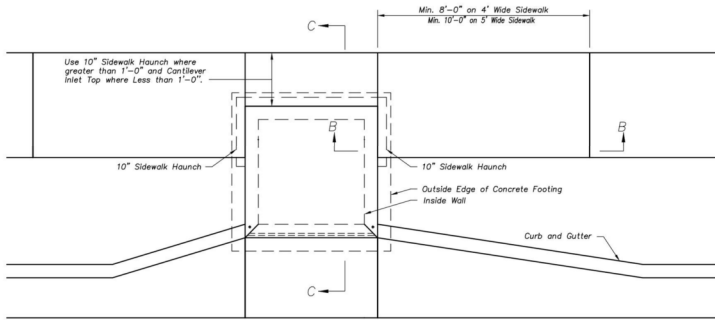
LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

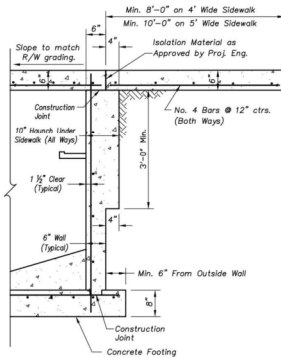
2021

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

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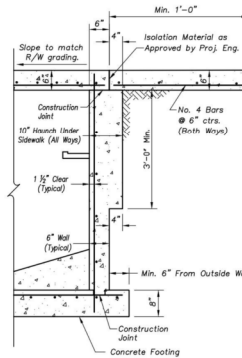


Plan
 Not to Scale



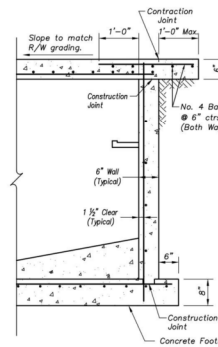
Section B-B
 With Sidewalk Haunch

NOTE: Sidewalk Haunch is Subsidiary to the Curb Inlet Construction.



Section C-C
 With Sidewalk Haunch Where Sidewalk Width > 1' Along Back of Inlet

NOTE: Sidewalk Haunch is Subsidiary to the Curb Inlet Construction.



Section C-C
 With Cantilever Inlet Top Where Sidewalk Width < 1' Along Back of Inlet

NOTE: Sidewalk Haunch is Subsidiary to the Curb Inlet Construction.

CURB INLET WITH ADJOINING SIDEWALK

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 As Noted on Plans Review
 Development Services Department
 Lee's Summit, Missouri
 12/15/2021

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Olsson Engineers, Inc. 1400 Bankers Building
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RYAN B. FLEMING
 MO. NO. PE-2002003161

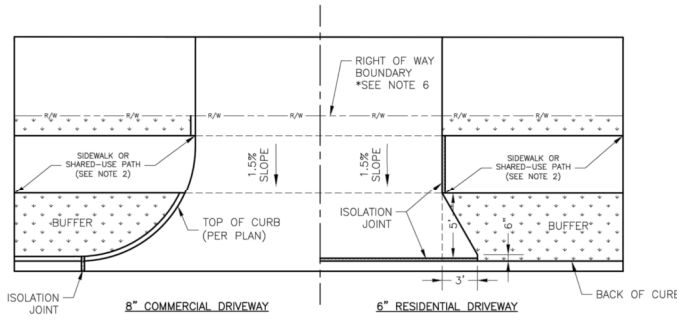
REV. NO.	DATE	DESCRIPTION
1	08/25/2021	ASB

BY	DATE	DESCRIPTION
ASB		

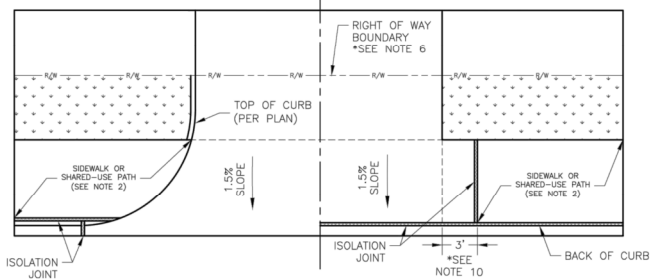
STORM SEWER DETAILS
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

C.O.A. NO.	001582
DRAWN BY	MS/W
CHECKED BY	RBF
APPROVED BY	RBF
QA/QC BY	RBF
PROJECT NO.	0906003
DWG NO.	STRM0101_0200103
DATE	2021-08-21

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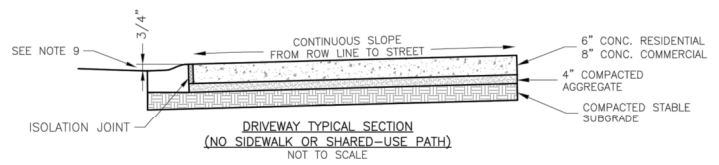


DRIVEWAY WITH BUFFER
NOT TO SCALE

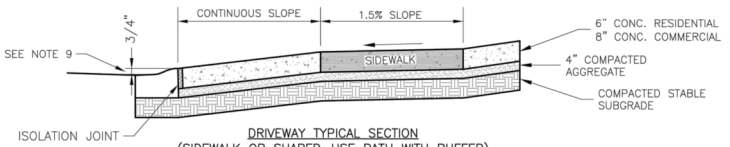


DRIVEWAY WITHOUT BUFFER
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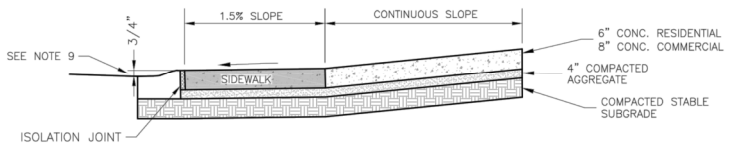
- GENERAL NOTES**
- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT 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.



DRIVEWAY TYPICAL SECTION (NO SIDEWALK OR SHARED-USE PATH)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION (SIDEWALK OR SHARED-USE PATH WITH BUFFER)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION (SIDEWALK OR SHARED-USE PATH WITHOUT BUFFER)
NOT TO SCALE

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As Noted on Plans Review

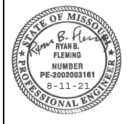
Development Services Department
Lee's Summit, Missouri
12/15/2021

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 120 SE GREEN STREET | LEE'S SUMMIT, MO 64083

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Title: DRIVEWAY DETAIL

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

GEN-1

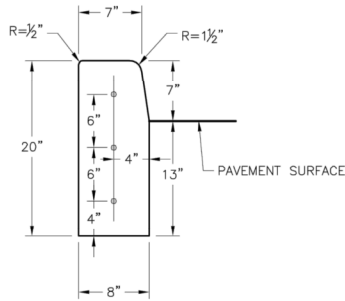


REV. NO.	DATE	REVISIONS DESCRIPTION

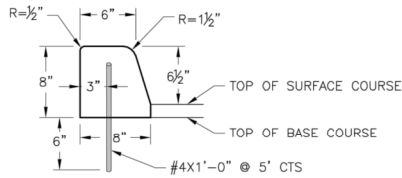
STANDARD DETAILS	REVISIONS
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2021

C.O.G. NO.	001592
DRAWN BY	MS/W
CHECKED BY	RFB
APPROVED BY	RFB
DATE	08/25/21
PROJECT NO.	0006003
DWG NO.	T_DTL01_020103
DATE	2021-08-25

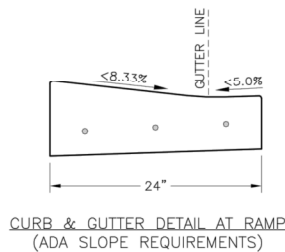
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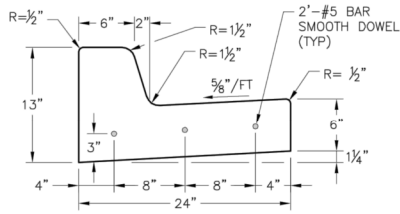
STRAIGHT CURB
(TYPE C-1)



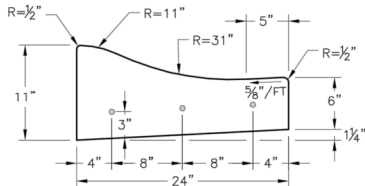
DOWELLED CURB
(TYPE DC)



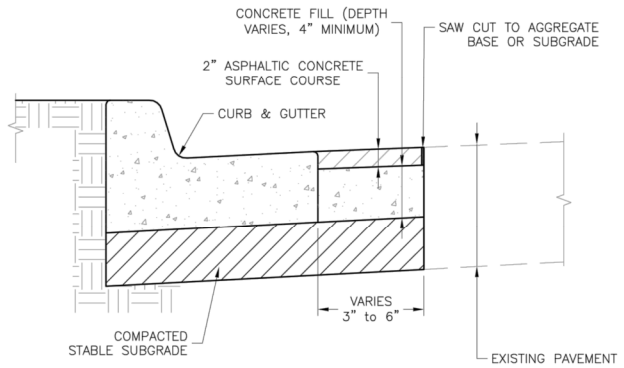
CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



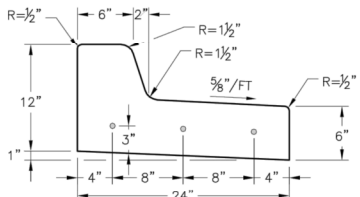
STRAIGHT BACK CURB & GUTTER
(TYPE CG-1)



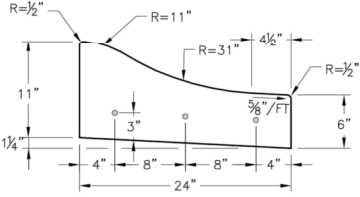
ROLL BACK CURB & GUTTER
(TYPE CG-2)



CURB REPLACEMENT DETAIL



STRAIGHT BACK DRY CURB & GUTTER
(TYPE CG-1 DRY)



ROLL BACK DRY CURB & GUTTER
(TYPE CG-2 DRY)

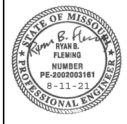
GENERAL NOTES

- 3/4" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
- 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
- CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
- KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
- ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
- CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 201 SE GREEN STREET | LEE'S SUMMIT, MO 64003

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 CURB & GUTTER DETAIL

Drawn By: MJF
 Checked By: DL
 Date: 04/17
 Proj. #:
GEN-4



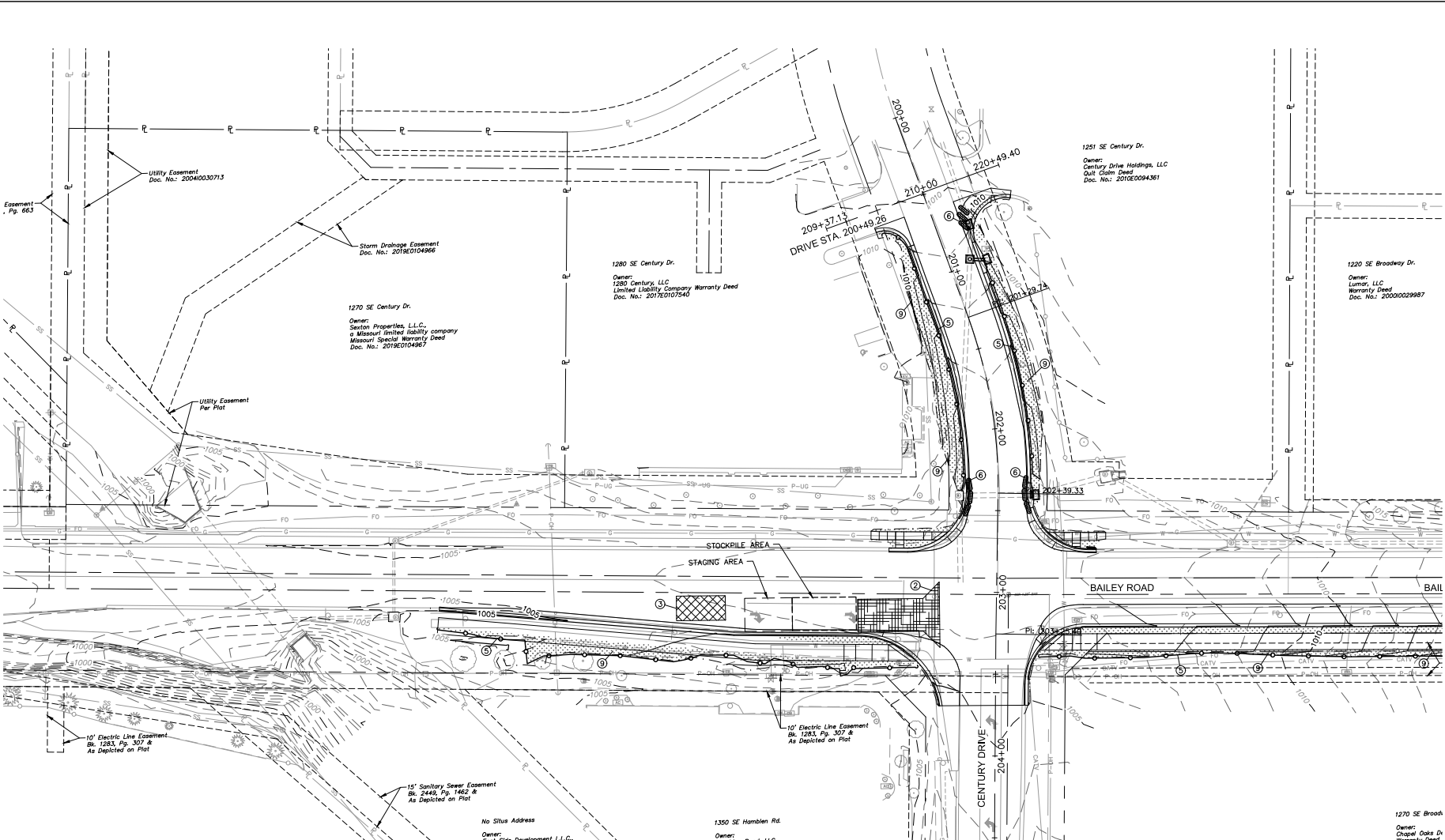
REV. NO.	DATE	REVISIONS DESCRIPTION

STANDARD DETAILS	2021
LEE'S SUMMIT MIDDLE SCHOOL #4 BAILEY ROAD PUBLIC IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

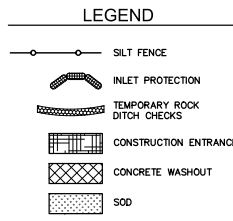
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DRAWN BY	MSW
CHECKED BY	RFB
APPROVED BY	RFB
QA/QC BY	RFB
PROJECT NO.	0000003
DWG NO.	T_DTL01_0200103
DATE	2021-08-21

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 Development Services Department
 Lee's Summit, Missouri
 12/15/2021

DWG: F:\2020\0001-0500\020-0103.45-Design\AutoCAD\Final Plans\Sheets\DRBR\Lee Summit Plan Set - (Century and Middle School Drives)\EROSION CONTROL PLANS\T_ERCOI_0200103.dwg USER: mholter
 DATE: Aug 25, 2021 10:07am REF: T_PBLSE_0200103 V_SBOU-2_00103 V_XTOP-2_00103 V_TPOB_00103 T_PPAIT_0200103 T_PSTRM_0200103



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 BIOGRADABLE LOSS (9')	IV	
	6	CURB INLET PROTECTION	III	PER CURB INLET DETAIL
II - ROADWAY GRADING & SWALE GRADING	7	TEMP. ROCK DITCH CHECK AND/OR BID LOGS	IV	PER DETAIL SHEET XX
	8	CURB INLET/AREA INLET PROTECTION	IV	GRAVEL FILTER BAGS
III - PAVING	9	SOD	N/A	



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 As Noted on Plans Review

Development Services Department
 Lee's Summit, Missouri
 12/15/2021

Olsson Engineering, Inc. Statewide Office of Practice # 001892
 7281 West 133rd Street, Suite 200
 Overland Park, KS 66209-4750 TEL: 913.381.1170
 FAX: 913.381.1174 www.olsan.com

RYAN B. FLEMING
 MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION

EROSION CONTROL PLAN

LEE'S SUMMIT MIDDLE SCHOOL #4

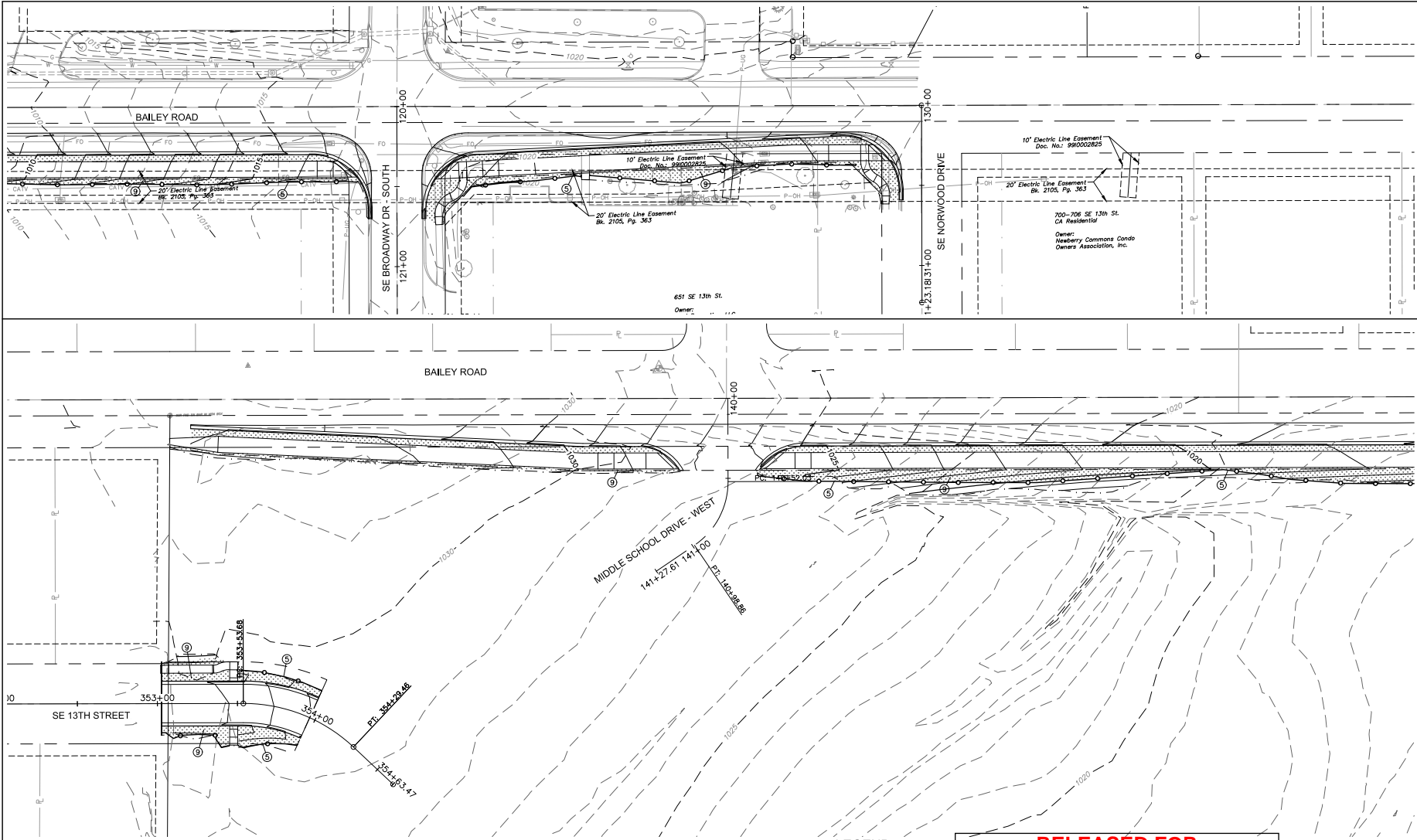
BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

C.D.A. NO. 001982
 DRAWN BY: MS/W
 CHECKED BY: RBE
 APPROVED BY: RBE
 GAUC BY: RBE
 PROJECT NO. 00800103
 DWG NO. T_ERCOI_0200103
 DATE: 2021-08-25

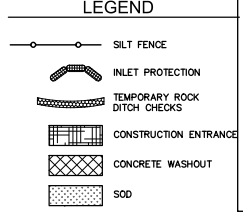
SHEET 53 OF 101

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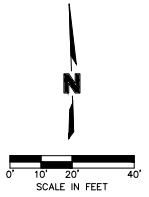
EROSION AND SEDIMENT CONTROL STAGING CHART

PROJECT STAGE	EROSION CONTROL PLAN BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
I - STORM SEWER INSTALLATION PRIOR TO ROADWAY GRADING	1	STAGING AREA	III	
	2	TEMPORARY CONSTRUCTION ENTRANCE	III	
	3	CONCRETE WASHOUT	III	
	4	TEMP. ROCK DITCH CHECK AND/OR BID LOSS	IV	INSTALL BEFORE STORM SEWER INSTALLATION
	5	SILT FENCE/ OR BIOGRADABLE LOSS (9')	IV	
	6	CURB INLET PROTECTION	III	PER CURB INLET DETAIL
II - ROADWAY GRADING & SWALE GRADING	7	TEMP. ROCK DITCH CHECK AND/OR BID LOSS	IV	PER DETAIL SHEET XX
	8	CURB INLET/AREA INLET PROTECTION	IV	GRAVEL FILTER BAGS
III - PAVING	9	SOD	N/A	



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Development Services Department
 Lee's Summit, Missouri
 12/15/2021



olsson

1600 E. Blue Springs Blvd., Suite 200, Blue Springs, MO 64015
 7281 West 133rd Street, Suite 200, Overland Park, KS 66221-4750
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RYAN B. FLEMING
 LICENSED PROFESSIONAL ENGINEER
 NUMBER PE-200003161
 EXPIRES 12/31/2021

RYAN B. FLEMING
 MO. NO. PE-200003161

REV. NO.	DATE	REVISIONS DESCRIPTION

REVISIONS

EROSION CONTROL PLAN

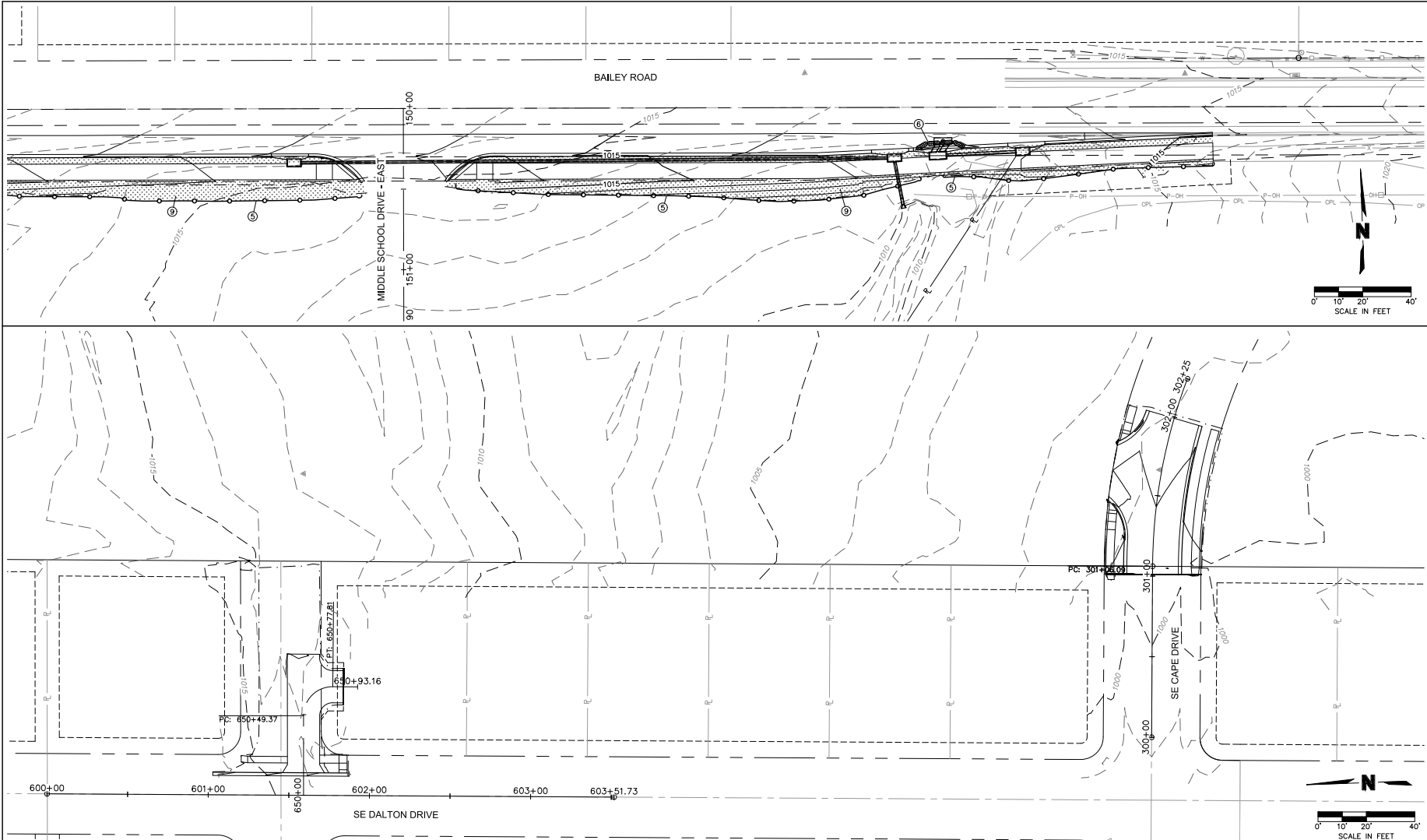
LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS

2021

C.D.A. NO. 001582
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 CHECKED BY: RFB
 APPROVED BY: RFB
 GAUC BY: RFB
 PROJECT NO. 00600103
 DWG NO. T_ERCO1-0200103
 DATE: 2021-08-21

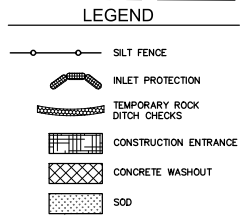
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54 OF 101

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EROSION AND SEDIMENT CONTROL STAGING CHART

PROJECT STAGE	EROSION CONTROL PLAN BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
I - STORM SEWER INSTALLATION PRIOR TO ROADWAY GRADING	1	STAGING AREA	III	
	2	TEMPORARY CONSTRUCTION ENTRANCE	III	
	3	CONCRETE WASHOUT	III	
	4	TEMP. ROCK DITCH CHECK AND/OR BID LOGS	IV	INSTALL BEFORE STORM SEWER INSTALLATION
	5	SILT FENCE/ OR BIOGRAVABLE LOSS (9")	IV	
	6	CURB INLET PROTECTION	III	PER CURB INLET DETAIL
II - ROADWAY GRADING & SWALE GRADING	7	TEMP. ROCK DITCH CHECK AND/OR BID LOGS	IV	PER DETAIL SHEET XX
	8	CURB INLET/AREA INLET PROTECTION	IV	GRAVEL FILTER BAGS
III - PAVING	9	SOD	N/A	



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RYAN B. FLEMING
 PE-200203161
 8-11-2021

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 BY: _____
 REVISIONS: _____
 2021

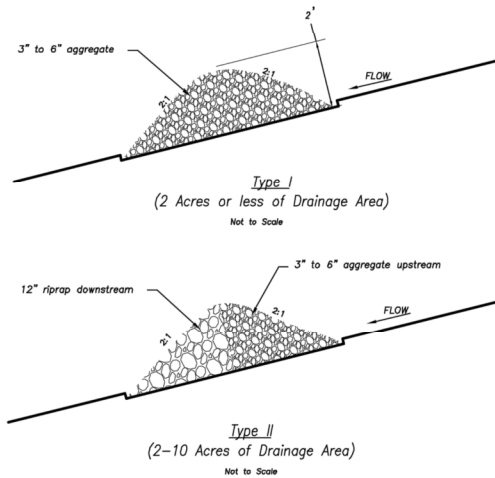
EROSION CONTROL PLAN
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.G.A. NO. 001892
 DRAWN BY: MS/W
 CHECKED BY: JRF
 APPROVED BY: JRF
 GAUC BY: JRF
 PROJECT NO. 00000103
 DWG NO. T_ERCO_0200103
 DATE: 2021-08-21

SHEET
 55 OF 101

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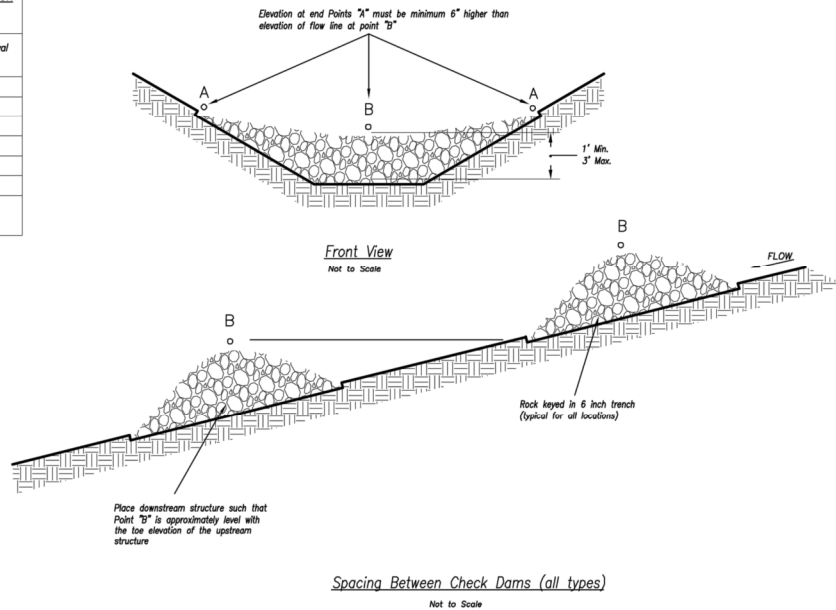
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ROCK DITCH CHECK

Temporary Rock Ditch Check Spacing	
Ditch Centerline Slope (%)	Spacing Interval (Feet)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29

Note: Use this spacing only for Rock Ditch Checks.



Spacing Between Check Dams (all types)
 Not to Scale

Notes:

1. Rock check dams shall be used only for drainage areas less than 10 acres unless approved by the City Engineer.
2. Use rock checks only in situations where the ditch slope exceeds 6%.

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of the ditch check.
2. Replace and reshape as necessary to maintain function and integrity of installation.

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

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 12/15/2021

AMERICAN PUBLIC WORKS ASSOCIATION
 Kansas City Metro Chapter

 KANSAS CITY METRO CHAPTER
 STANDARD DRAWING NUMBER ESC-10
 ADOPTED: 10/24/2016

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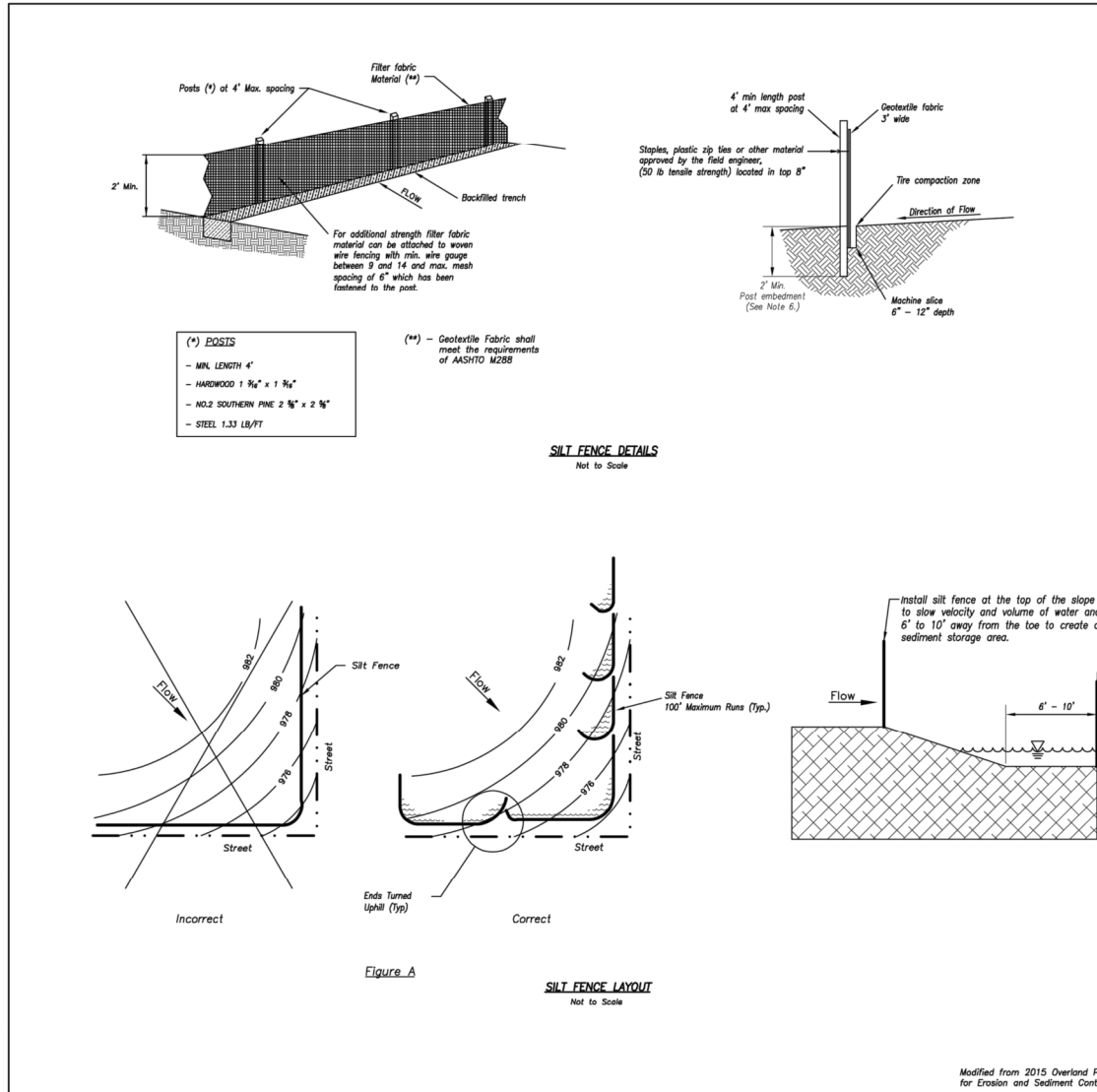
RYAN B. FLEMING
 PROFESSIONAL ENGINEER
 LICENSE NUMBER PE-200003161
 EXPIRES 8-31-23

REV. NO.	DATE	REVISIONS DESCRIPTION

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

C.D.A. NO.	001592
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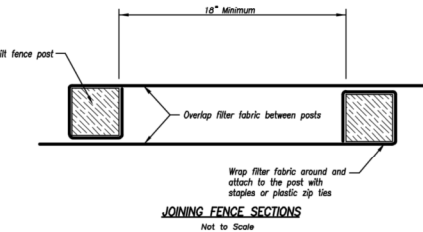


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- Notes:**
- In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
 - Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
 - Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
 - Attach fabric to upstream side of post.
 - Install posts a minimum of 2' into the ground.
 - Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

- Maintenance:**
- Remove and dispose of sediment deposits when the deposit approaches 1/3 the height of silt fence.
 - Repair as necessary to maintain function and structure.



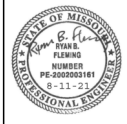
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SILT FENCE

STANDARD DRAWING
 NUMBER ESC-03
 ADOPTED:
 10/24/2016



BY	RYAN B. FLEMING
NO.	PE-2002003161
REVISIONS DESCRIPTION	
DATE	
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EROSION CONTROL DETAILS

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

LEE'S SUMMIT, MISSOURI

2021

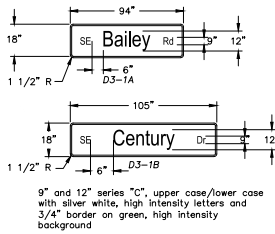
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CHECKED BY	RFB
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QA/QC BY	RFB
PROJECT NO.	0003003
DWG NO.	ESC02TLO1_0203004
DATE	2021-08-21

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GENERAL NOTES:

- The contractor shall have one (1) signed copy of the plans (approved by the City of Lee's Summit) and one (1) copy of the appropriate Design and Construction Standards and Specification at the job site at all times.
- Construction of the improvements shown or implied by this set of drawings shall not be initiated or any part thereof undertaken until the Director of Public works or his agent is notified of such intent, and all required and properly executed bonds and contract agreements are received and approved by the City.
- The Construction covered by these plans shall conform to all applicable standards and specifications of the Public Works Department of the City of Lee's Summit, Missouri, in current use. Specifically, but not exclusive to: Traffic Signal Specification: Section 2900. Traffic Signal Standard Drawings: 1S-1 through 1S-10.
- All workmanship and materials shall be subject to the inspection and approval of the Public Works Department of the City of Lee's Summit, Missouri.
- Right-Of-Way limits should be cross checked by the Contractor and approved by the field inspector before undertaking any excavations at the site.
- The contractor shall stake the location of all pole bases, pull boxes, and controller cabinet base, then provide the City one week notice prior to the start of construction, and subsequent construction activities, for inspection and approval. The contractor shall provide a work schedule, contact names, and phone numbers.
- All locations indicated in drawings, including conduit runs are subject to adjustment to clear obstructions and to meet site conditions, if any, by the City.
- Existence and location of any underground or overhead facilities shown on these drawings or reference to any soil conditions, if made, are approximate only. It is the Contractor's responsibility to verify all site conditions and to locate all utilities, including depth, before starting construction so that any adjustments to design can be made prior to pole ordering or fabrication. In addition, the Contractor shall avoid disruption of services provided by the utilities and shall insure that proper clearances (overhead and underground) are maintained for the duration of construction. The Contractor shall be fully responsible for any and all damages caused by failure to exactly locate and preserve all utilities.
- The contractor shall coordinate with the City Traffic Engineer for any necessary changes to the traffic signals resulting from existing utilities or other construction issues.
- Any equipment damaged during construction shall be replaced at the Contractor's expense.
- Signal equipment shall not form an obstruction to the movement of pedestrian and wheelchair traffic and shall be ADA accessible. Where sidewalks are present, a minimum clear width of 48 inches shall be available for pedestrian and wheelchair movement. Pull boxes shall not be installed on wheelchair ramps.
- Conduits to be placed outside of paved areas shall be trenched in place. If the project includes roadway improvements, the conduit shall be trenched after the roadway rough grade is established and prior to any final roadway paving, curb & gutter, median or sidewalk sections are placed. All compaction and backfill shall meet City of Lee's Summit requirements. At the option of the contractor, conduits may be bored outside paved areas, but there will be no adjustment to the unit prices for conduit installation and any change in cost would be the contractor's responsibility. Any conduit bore outside paved areas shall be done after roadway improvements are complete. Conduits to be placed within the limits of pavement shall be bored unless otherwise authorized by the City Traffic Engineer. If the project includes roadway improvements, the conduit shall be bored prior to any final roadway paving. Pot-holing for utilities on road bores after final paving will not be allowed.
- The traffic signal controller, cabinet and related equipment, as specified for this project, shall be delivered to the City for testing prior to installation. All signal timings will be provided by the City Traffic Engineer. The Contractor shall coordinate material delivery and pick-up with the Public Works Operations Department (909-1870) at least 48 hours prior to transportation. A minimum of 2 weeks shall be permitted for testing between delivery and pick-up. The Contractor assumes all damage liability and should inspect all materials before and after transportation of equipment.
- The Contractor shall coordinate all electrical power requirements and connection activities with the Utility Company, including location of the meter, circuitry and connection requirements, and powering up the complete system. The Contractor shall order the meter and pay electrical bills until Final Acceptance, at which time the Contractor shall coordinate with the City for transferring the electrical billing services to the City.
- All disturbed surfaces shall be made good to match existing at the Contractor expense.
- Contractor shall maintain at all times access for Emergency Vehicles and residents along the entire project.
- Substantial completion of the traffic signals shall be defined as all components of the traffic signal operated fully and satisfactorily with red, yellow, and green cycles. Substantial completion shall allow for testing of the signals, including a flash period, prior to signals operating with cycles. Substantial completion shall also include the completion of all interconnect, sidewalk, curb ramp and removal work.
- Final acceptance of traffic signals shall be defined as final written approval and acceptance by the City, including completion or correction of all punch list items and the traffic signals fully operational for a time period of fifteen (15) days, without any problem, as noted in the specifications. As-built plans shall be submitted prior final acceptance by the City.

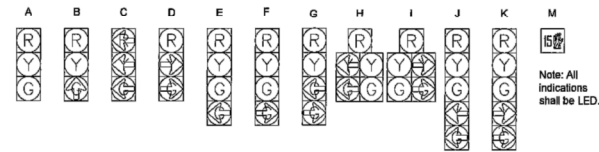
STREET NAME SIGN DETAIL



9" and 12" series "C", upper case/lower case with silver white, high intensity letters and 3/4" border on green, high intensity background

LEGEND

- Optically Limiting Traffic Signal Head
- Traffic Signal Head
- Traffic Signal Head With Backplate
- Pedestrian Signal Head
- Stop Line
- Lane Use
- Mast Arm Pole
- Signal Pedestal
- Traffic Controller Cabinet
- Pull Box
- Span Wire Signal Head
- Power Supply (Disconnect)
- Suggested Vehicle Detection Zone
- Induction Loop Detector
- Push Button Detector
- Opticom Detector
- Magnetometer Detector
- Power Supply (Source)
- Conduit
- Signal Face Number
- Post Number
- Detector Number
- Pull Box Number
- PB24 Push Button Number
- Cobra Head Luminaire
- Vehicular Detection Camera



TYPICAL REGULATORY SIGN DETAIL



SIGN R10-12
24" X 30"



SIGN R10-3E
9" X 15"

Note: Sign R10-3E shall be provided for each push button.

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Olsson Engineering, Inc. Statewide Office of Public Works
 7201 West 133rd Street, Suite 200
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REV. NO.	DATE	REVISIONS DESCRIPTION	BY

TRAFFIC SIGNAL PLAN
 GENERAL NOTES & LEGEND
 LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS

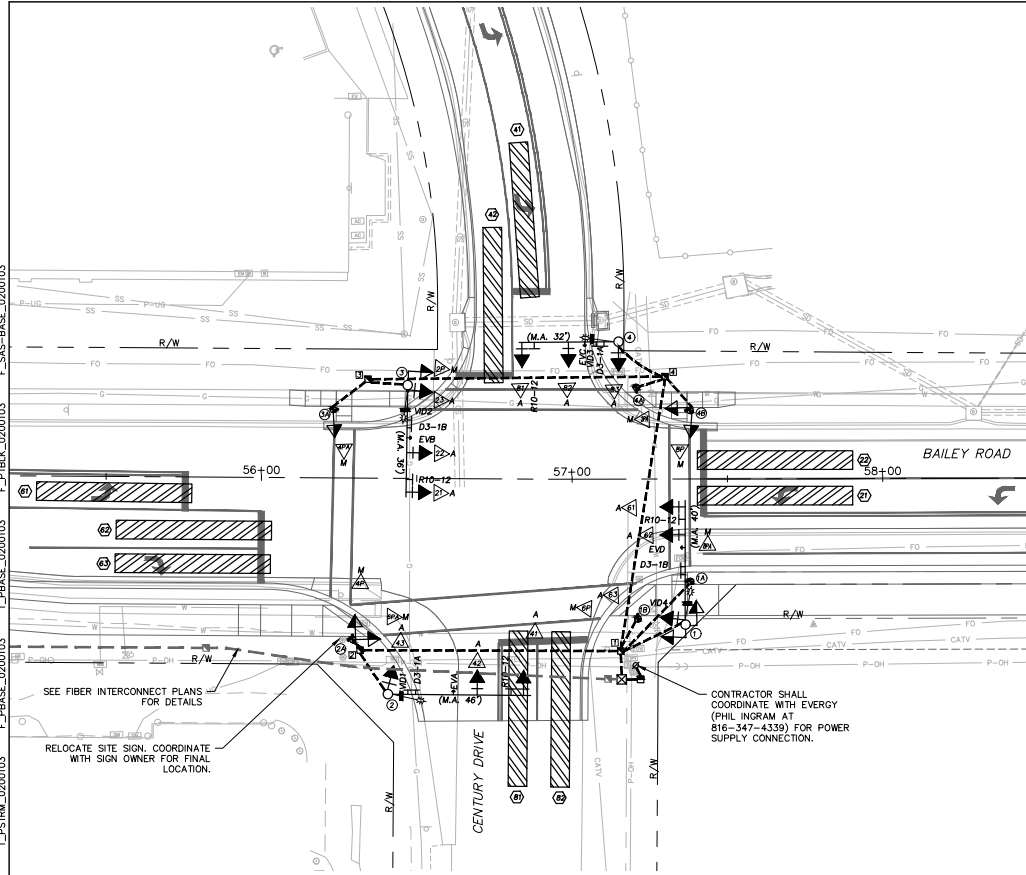
2021

LEE'S SUMMIT, MISSOURI

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DRAWN BY	JBC
CHECKED BY	ASB
APPROVED BY	ASB
DATE	12/15/2021
PROJECT NO.	09020103
DIWG NO.	1S_00103
DATE	8/25/2021

SHEET
62 OF 101

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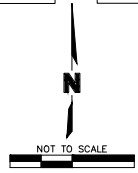
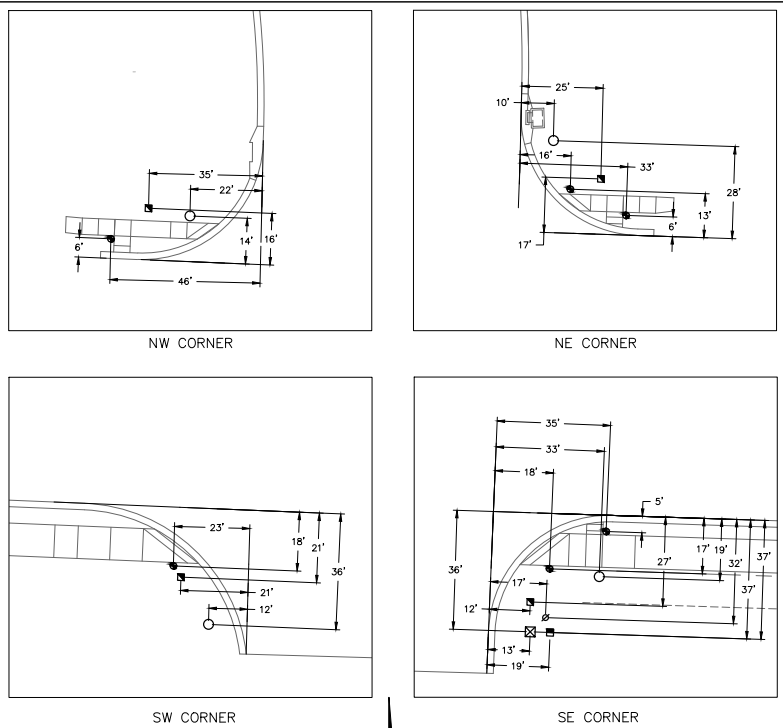


GENERAL NOTES:

- Existing underground (U/G), overhead (OH) utilities and drainage structures have been plotted from available information and therefore, their locations must be considered approximate only. It is the responsibility of the individual Contractors to exactly locate each utility before actual construction.
- All construction methods and traffic signal equipment shall conform to the latest edition of the City of Lee's Summit Standard Specifications and Approved Products List.
- Contractor shall stake the location of all traffic signal poles, conduit, controllers, service boxes and junction boxes to be installed. The Project Engineer shall inspect the staking prior to any excavation and/or construction. Minor relocation of equipment to avoid conflicts may be allowed with the approval of the Project Engineer.
- All existing curb and gutter, sidewalk, pavement, drainage structures, or ground damaged during the traffic signal construction shall be replaced to match existing. This work will be considered SUBSIDIARY to the "Traffic Signal Installation" bid item.
- Contractor shall coordinate signal turn-on with the City of Lee's Summit.
- All traffic signal indications shall be L.E.D. (Light Emitting Diode.)
- Contractor to verify location of power source with Evergy before construction.



SIGNAL PLAN



NEW EQUIPMENT TO BACK-OF-CURB DISTANCES

POLE, PULL BOX, POWER METER, AND CONTROLLER LOCATION

STATION	O/S	STATION	O/S
① 57+36.40	46.9' RT.	⑭ 56+22.93	22.0' LT.
② 57+38.08	33.0' RT.	⑮ 56+34.08	31.8' LT.
③ 57+21.09	45.0' RT.	⑯ 57+15.03	44.2' LT.
④ 57+15.56	55.4' RT.	⑰ 57+20.71	29.5' LT.
⑤ 56+41.12	69.5' RT.	⑱ 57+38.03	22.0' LT.
⑥ 56+29.64	52.1' RT.	⑲ 57+29.98	33.0' LT.
⑦ 56+32.08	55.4' RT.	⊠ 57+15.83	64.5' RT.
⑧ 56+46.85	30.0' LT.	⊡ 57+21.93	64.5' RT.
		⊜ 57+20.35	60.0' RT.

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BY: _____

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TRAFFIC SIGNAL PLAN
BAILEY ROAD & CENTURY DRIVE
LEE'S SUMMIT MIDDLE SCHOOL #4
PUBLIC ROAD IMPROVEMENTS
LEE'S SUMMIT, MISSOURI

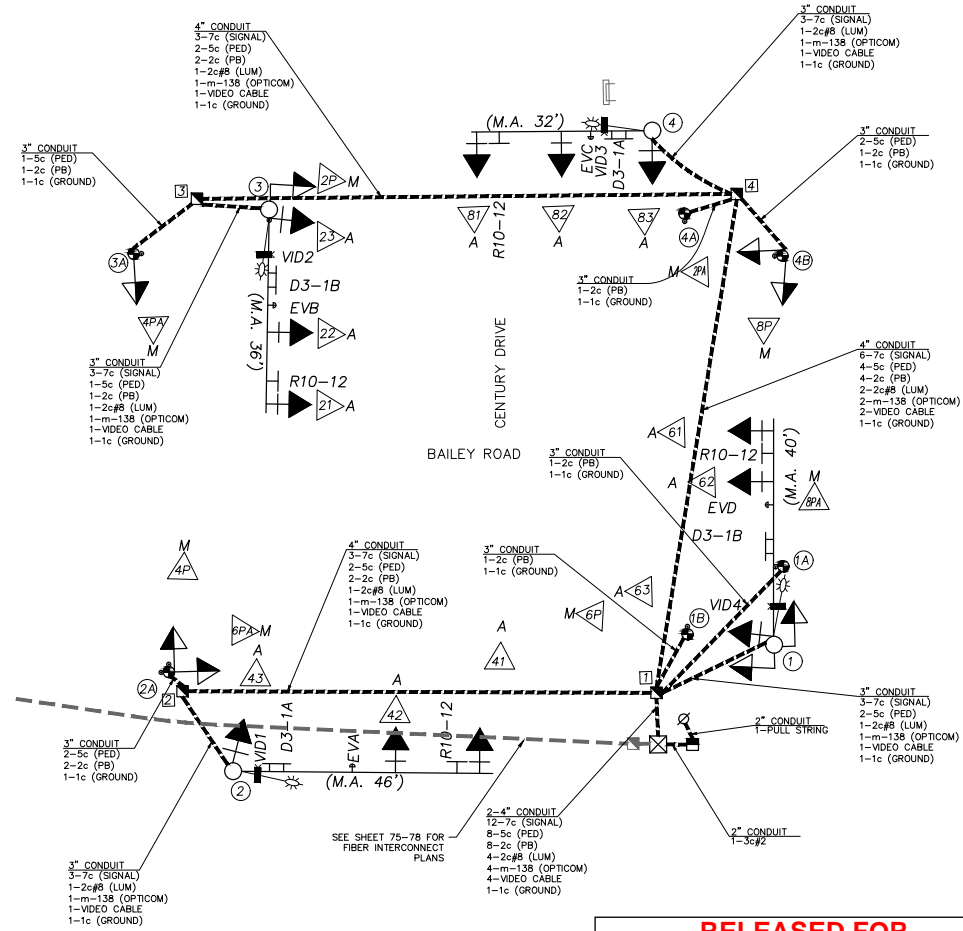
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CHECKED BY: JBC
APPROVED BY: JBC
QA/QC BY: JBC
PROJECT NO. 020103
DWG NO. 153010
DATE: 8/25/2021

SHEET
63 OF 101

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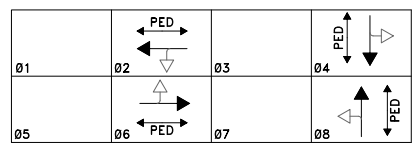
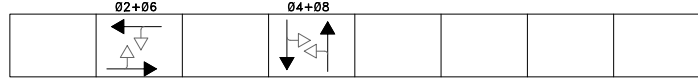
WIRING DIAGRAM



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12/15/2021

SEQUENCE



PHASE DIAGRAM

OUTPUT FILE ASSIGNMENTS

FR1	01	02	PED 02	03	04	PED 04	MONITOR
FR2							
FR3	05	06	PED 06	07	08	PED 08	
FR4							

1	2	3	4	5	6	7	8	9	10	11	12	13	14
											PED 02	PED 04	FLH
											PED 06	PED 08	STOP TIME

FLASHING	OPERATIONS
EMERGENCY	SCHEDULED
FY-No 0's	FY-No 0's
FR-All 0's	FR-All 0's

POWER SUPPLY				
LOCATION	Power Supply Type	CIRCUIT BREAKER TRIP RATINGS		
		SERVICE DISCONNECT (2-POLE)	TRAFFIC SIGNAL (1-POLE)	LIGHTING (2-POLE)
SE CORNER	2-Circuit	40 AMP	40 AMP	15 AMP

Wiring and Phasing General Notes

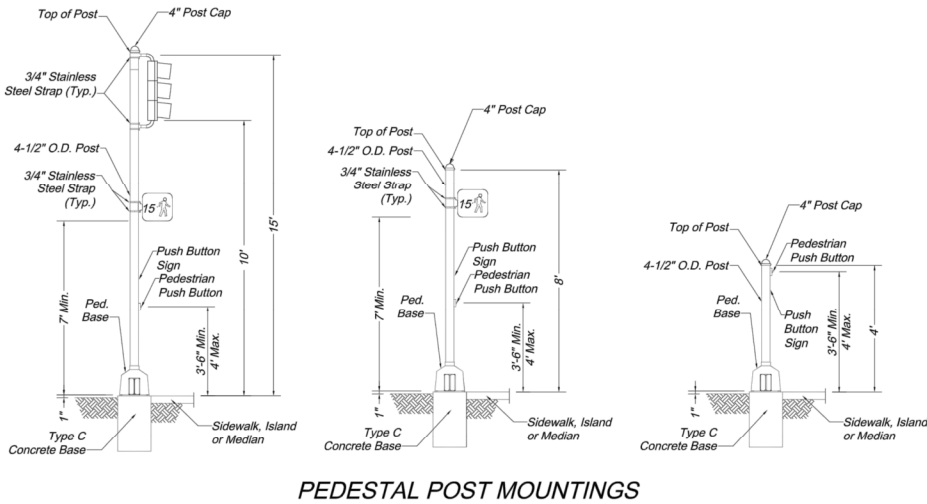
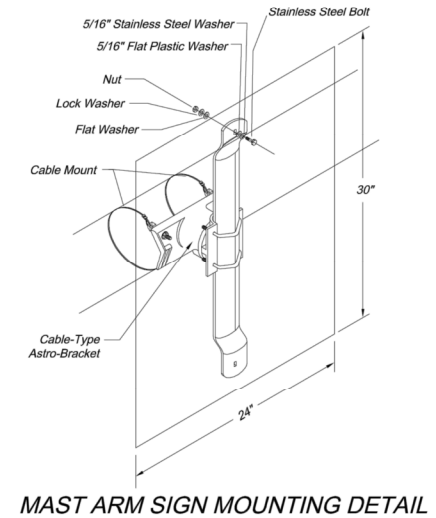
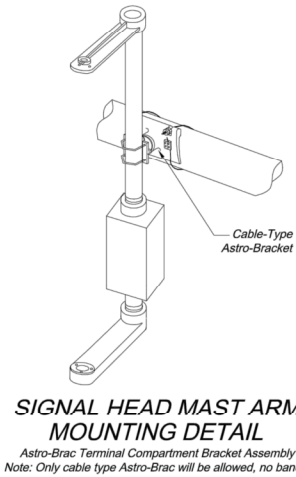
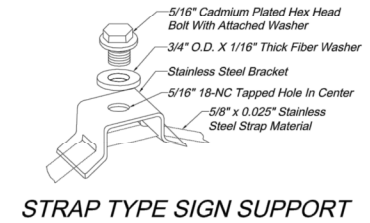
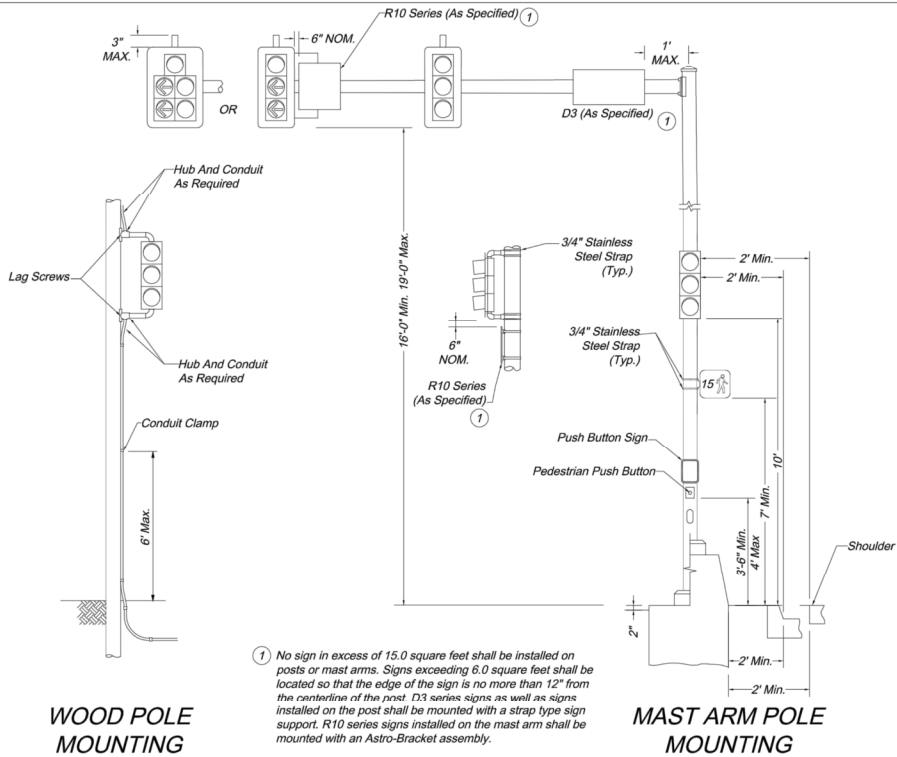
- All signals heads shall each be served by one 7c#14 cable extending from the head back to the controller. No cable splices are allowed, including at the base of the pole and inside pull boxes. Mast arm heads shall not be jumpered, so that additional 7c can be used for left-turn signal head if needed in the future.
- A continuous 1c#6 AWG bare solid copper ground wire shall be provided in addition to ground rods. All grounding and ground rods shall be tied together using 1c#6 AWG bare solid copper wire to bond the system.



BY	REVISIONS DESCRIPTION	DATE	REV. NO.

WIRING DIAGRAM
BAILEY ROAD & CENTURY DRIVE
LEE'S SUMMIT MIDDLE SCHOOL #4
PUBLIC ROAD IMPROVEMENTS
LEE'S SUMMIT, MISSOURI

C.D.A. NO.	001002
DRAWN BY	JBC
CHECKED BY	JBC
APPROVED BY	JBC
GAUC BY	THE
PROJECT NO.	0905010
DWG NO.	1350103
DATE	8/25/2021



General Notes:

All post wire outlets shall be deburred and equipped with bushings.

Backplates not shown in mounting diagrams for clarity.

Posts shall be grounded with #6 AWG bare copper wire from grounding bushing on conduit to grounding lug in post base if steel conduit is used. If non-metallic conduit is used, provide #6 AWG wire from grounding lug in post to power supply ground buss in controller cabinet.

Leads from pedestrian signal lamps are connected to the signal head terminal compartment.

All signals shall be mounted vertically unless otherwise noted on the traffic signal plans.

Span wire mounted signals shall have a disconnect hanger.

Signal heads on mast arms shall be tilted forward from the top 3 to 7 degrees from vertical.

If a sign exceeds 42" in length, two supports are required; and if a sign exceeds 96" in length, three supports are required.

Mast arm mounted signals shall have a terminal compartment.

Side-mounted optically limiting heads shall have a minimum post clearance of 5-1/2".

Symbol for pedestrian lenses shall have a minimum height of 11"

Push button signs shall be mounted directly above the actuator, except for locations on 4' pedestals the sign shall be located directly below the actuator.

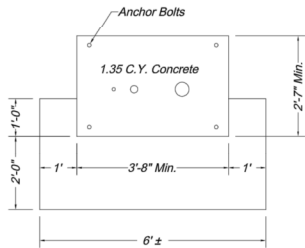
Signal appurtenances shall have a horizontal clearance no less than 2' from the face of a vertical curb or from the outside edge of a shoulder, except signals located in a median island.

See standard drawing TS-3 for base details.

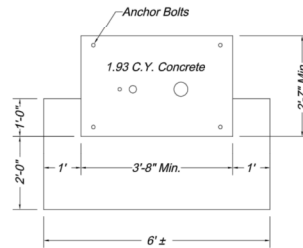


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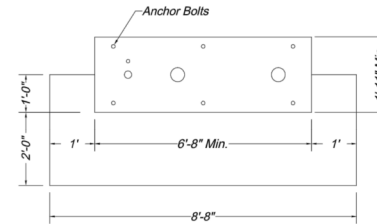
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12/15/2021**



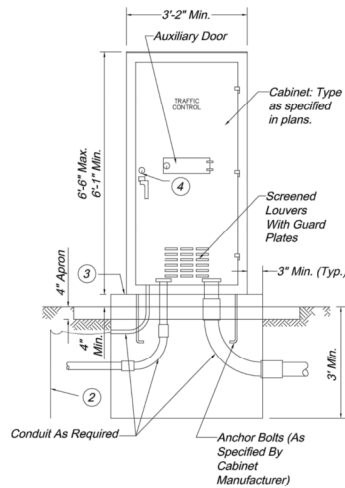
PLAN VIEW



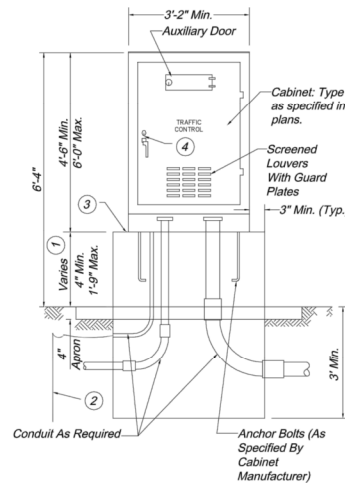
PLAN VIEW



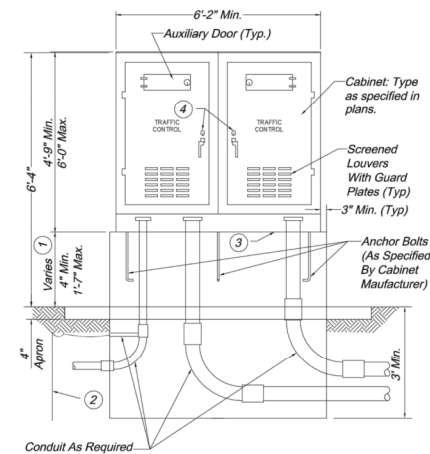
PLAN VIEW



For Controller Cabinets With Heights From 6'-1\"/>

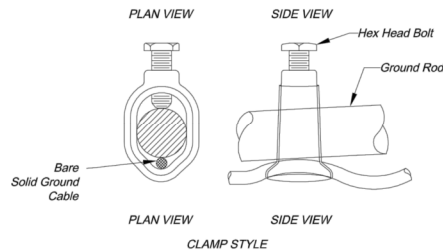


For Controller Cabinets With Heights From 4'-4\"/>



DOUBLE

CONTROLLER CABINETS AND BASE TYPES



GROUND ROD CLAMP CONNECTION DETAIL

Ground rod clamp shall be subsidiary to ground rod.

General Notes:

Traffic signal controller cabinet shall be oriented with the back of the controller cabinet facing the intersection, such that when the door is open the signal head indications can be viewed while looking inside the cabinet.

- 1 Dimension varies according to cabinet height.
- 2 Ground rod, 3/4\"/>

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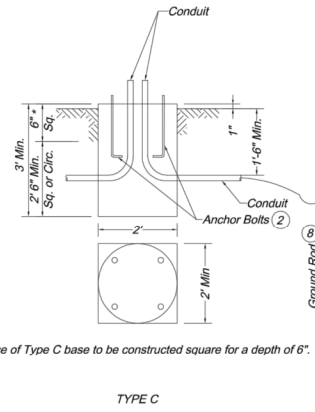
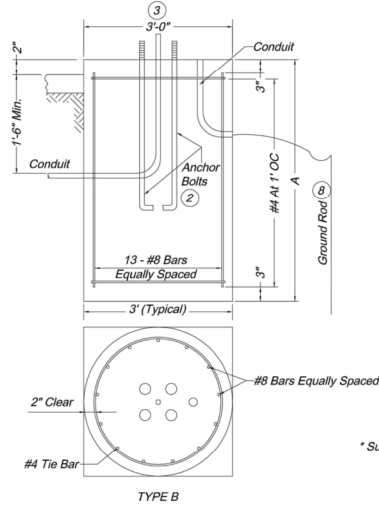
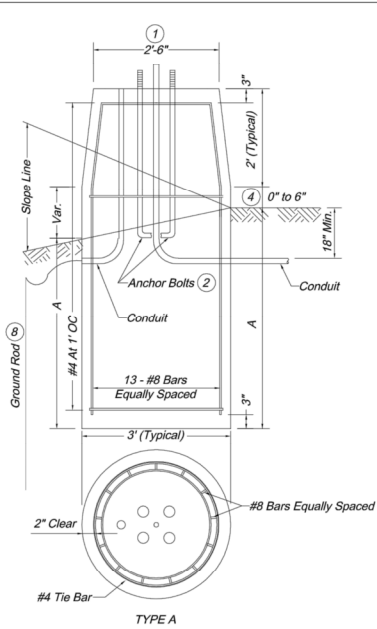
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CONTROLLER CABINET & BASE
 DETAILS
 STANDARD DRAWING TS-2

Drawn By: AS
 Checked By: MP
 Date: 09/25/2009
 Project#

67



POST BASES

* Surface of Type C base to be constructed square for a depth of 6".

POST BASES		
Post Type	Arm Length (Ft.)	Base Type
B, BL, C & CL	8 - 14	A-8 or B-8
B, BL, C & CL	15 - 34	A-10 or B-10
B, BL, C & CL	35 - 54	A-13 or B-13

Arm length determined by length of longest arm for Type B & BL signal posts.

Base Type A or B determined by location of post base.

Special Design Requirements:

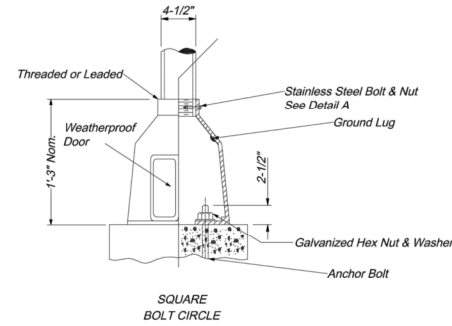
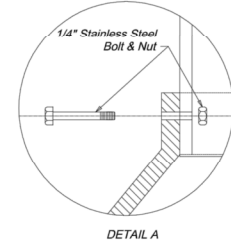
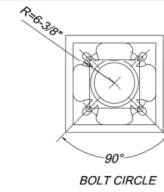
Signal structures which will exceed the dimension limits shown on Standard Drawing TS-5 shall have its Post Base designed by a professional engineer and approved by the City Engineer (or designee). A set of drawings including specifications and design computations shall be submitted for record and reference. The submitted drawings and calculations shall be signed and sealed by a professional engineer in accordance with the laws relating to architects and professional engineers (Chapter 327, RSMO) and shall include a title block or summary sheet which lists and certifies that the foundation will meet the design criteria.

STEEL & CONCRETE REQUIREMENTS FOR POST BASES				
Bases		#8 Steel Bar	Weight Lbs (1)	Conc. C.Y.
Type	A (10)	Length		
A-8	8'-0"	9'-6"	399	2.53
A-10	10'-0"	11'-6"	481	3.06
A-13	13'-0"	14'-6"	604	3.84
B-8	8'-0"	7'-6"	317	2.09
B-10	10'-0"	9'-6"	400	2.62
B-13	13'-0"	12'-6"	523	3.40
C*				0.44

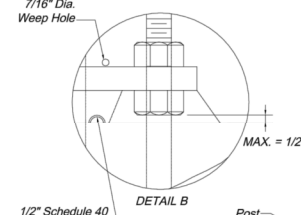
(10) Soil depth, no rock
 (11) Include #4 tie bar
 * Surface of Type C base to be constructed square for a minimal depth of 6".

BASE EMBEDMENT IN SOLID ROCK				
Solid Rock Encounter Point	Required Embedment For Base Type			
	A-8 B-8	A-10 B-10	A-13 B-13	
At Surface	4'-6"	4'-9"	5'-9"	
At One-Fourth Normal Depth	3'-6"	4'-0"	5'-0"	
At One-Half Normal Depth	3'-0"	3'-3"	3'-3"	
At Three-Fourths Normal Depth	1'-3"	1'-3"	1'-0"	

- Required embedment depths can be interpolated between encounter points for other solid rock encounter depths.
- Normal lengths for anchor bolts and reinforcing steel will be required.
- Core drill holes for anchor bolts and reinforcing steel in solid rock shall be provided. Core drill holes shall be twice the diameter of the anchor bolt and reinforcing steel diameter and to within 3 inches of the normal base depth.
- If soil, shale, gravel, fractured rock, or voids are encountered during core drilling, the rock shall be removed to the point of encounter.
- Anchor bolts and reinforcing steel shall be grouted in the core drill holes with non-shrink grout having a minimum strength of 9,000 pounds in 24 hours.
- Straight anchor bolts of the length shown in the anchor bolt table under the column "bolt length" are adequate for use in grouted core drilled holes. No heat induced alteration or bending of anchor bolts will be permitted.

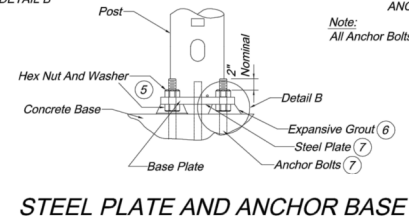


CAST BASE

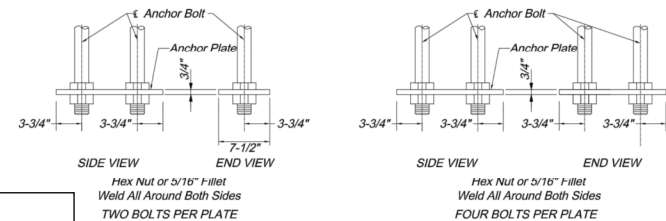


Bolt Length Inches	Vert Ht. A Inches	Thread Len. B Inches	Dia. C Inches
19	17	1.50	0.625
27	24	2.00	1.250
35	32	2.50	1.500
43	40	3.00	1.750
51	48	3.50	2.000
59	56	4.00	2.250
67	64	4.50	2.500

Note: All Anchor Bolts Shall Be Fully Galvanized.



STEEL PLATE AND ANCHOR BASE



OPTIONAL STEEL PLATE FOR ANCHOR BOLTS

- If bolt circle is 22 inches or greater, use Type B base. If Type B base is used anywhere, all Type B, BL, C, and CL posts shall have Type B base. Base plate shall stay within the top of the post base diameter.
- Anchor bolt dimensions are shown on the manufacturer's approved drawings.
- Maximum bolt circle diameter is 26". Base plate shall stay within the top of the post base diameter.
- 0" to 6" variation in base height is for obtaining 16'-0" clearance. 0.13" C.Y. concrete and 3 lbs. reinforcing steel per 6".
- Posts shall be furnished with individual nut covers.

- Expansive grout shall be used between the post base plate and concrete base.
- Plate and bolt sizes shall be shown on fabricators shop drawings and shall be subject to approval.
- 3/4" x 8" minimum ground rod. If subsurface conditions exist which prohibit the placement of the ground rod in vertical position, the rod may be driven at an oblique angle not to exceed 45 degrees from vertical or buried in a trench at least 30 in. deep. Connection to ground rod shall be clamp type as detailed on standard drawing TS-2.

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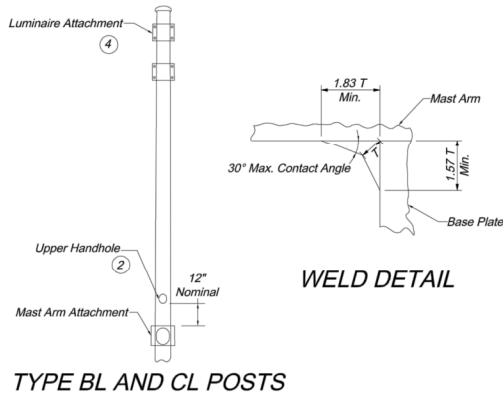
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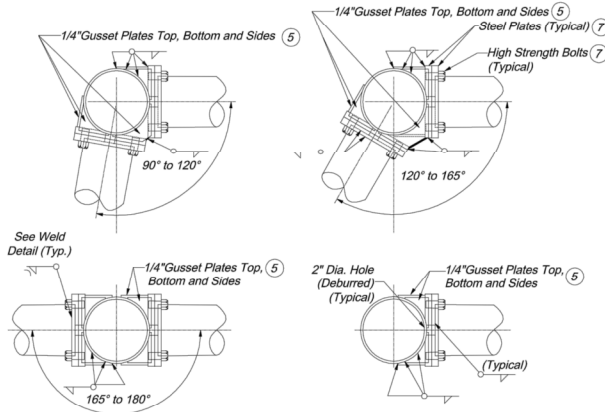


POST BASE DETAILS
 STANDARD DRAWING TS-3

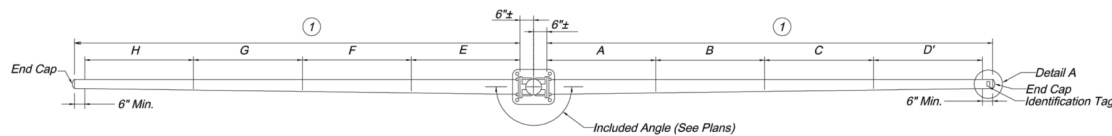
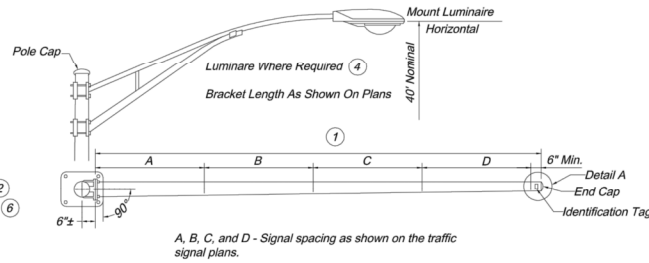
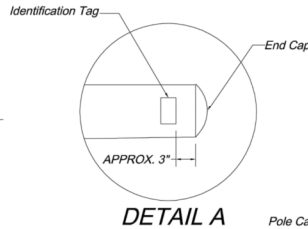
Drawn By: AS
 Checked By: MP
 Date: 09/25/2009
 Project#



WELD DETAIL



ARM ATTACHMENTS



E, F, G, and H - Signal spacing as shown on the traffic signal plans.

A, B, C, and D - Signal spacing as shown on the traffic signal plans.



ID Tag Note:

Tag shall be aluminum or stainless steel and attached to pole or mast arm using two rivets or stainless steel drive screws. ID tag holes shall be drilled prior to galvanizing.

- ① Arm Lengths shall not exceed 54 feet. See traffic signal plans for dimensions.
- ② Handholes shall be approximately 4" x 6-1/2". Handhole frame shall be reinforced so that the pole strength is not reduced.
- ③ Posts shall be furnished with individual nut covers.
- ④ See street lighting standard details for typical bracket arm mounting for Type BL and Type CL posts.
- ⑤ Any openings between top and side gusset plates shall be sealed with lifetime caulk at time of installation.
- ⑥ Post shall be grounded from ground lug in post with #6 AWG bare copper wire to conduit system. Ground lug shall be 90° or 180° from the handhole.
- ⑦ Plate and bolt sizes shall be shown on fabricators shop drawings and shall be subject to approval.

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12/15/2021

General Notes:

Arms shall be raked up 0.25" per foot minimum. Arms shall be provided with a permanent marking indicating proper orientation for installation.

To determine left or right on Type B or C signal post, viewing position shall be from the center of the intersection being controlled and facing the signal involved.

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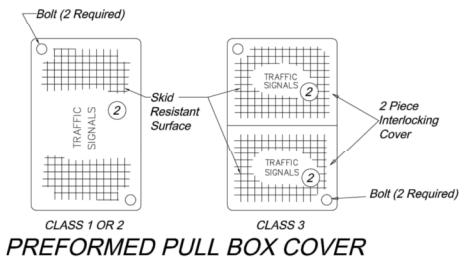
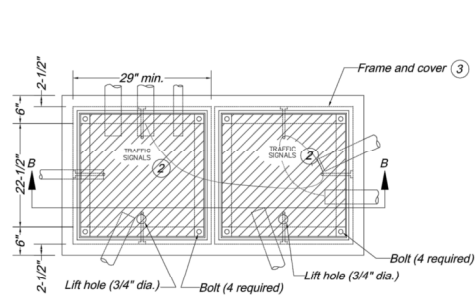
TUBULAR STEEL POST DETAILS

STANDARD DRAWING TS-4

Drawn By: AS
Checked By: MP
Date: 09/25/2009
Project#

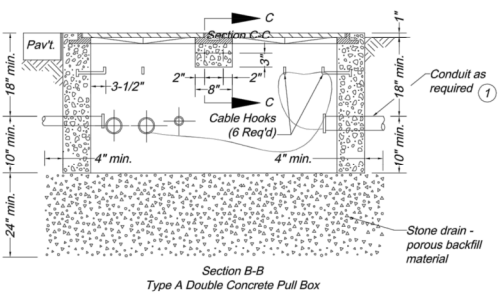
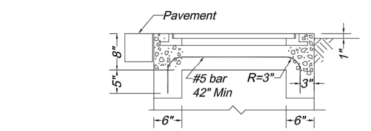
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12/15/2021

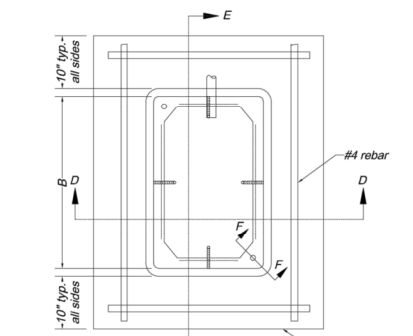


Number of Entering Conductors	Class	Preformed Pull Box Minimum Dimensions		
		A	B	C
< 23	1	17"	30"	20"
23 - 68	2	24"	30"	24"
> 68	3	30"	48"	24"

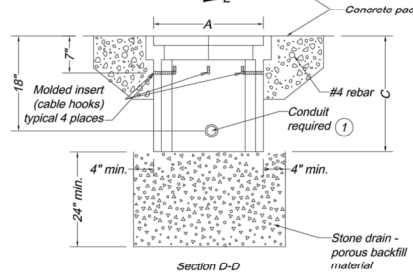
PREFORMED PULL BOX COVER



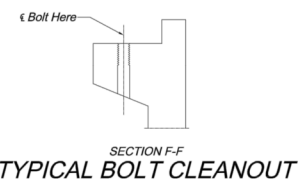
**Section B-B
Type A Double Concrete Pull Box**



Section D-D



Section E-E

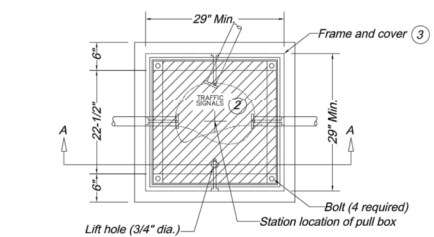


**SECTION F-F
TYPICAL BOLT CLEANOUT**

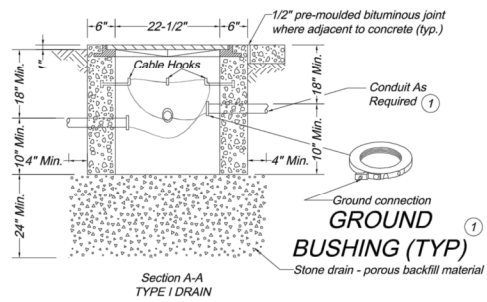
- All metal conduits shall be electrically bonded by a ground bushing and #6 AWG bare copper wire. For PVC, all ground wires shall be connected.
- Signal pull boxes shall be embossed "Traffic Signals."
- Pull box frames and covers shall be cast iron and the following minimum dimensions:
 Frame Size: 29" x 29"
 Opening Size: 22 1/2" x 22 1/2"
 Frame Height: 4-1/4"
 Frame Weight: 120 lbs.
 Cover Size: 22-5/8" x 22-5/8"
 Cover Thickness: 3/4"
 Cover Weight: 140 lbs.

General Notes:

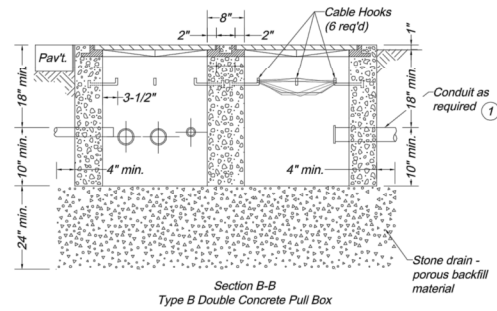
- All dimensions shown are nominal.
- Bolt cleanout detail shall be approved by the City Traffic Engineer.
- All concrete shall be 3,000 PSI minimum, and shall be subsidiary to the pull box.
- Pavement and subgrade shall be as shown on plans.
- Stone drain material shall be 1/2" - 3/4" clean rock.
- Lift opening required on all covers.
- Preformed box walls may be either flared or vertical.
- If an extension is used with a preformed box, the lip of the extension may be interior or exterior. The extension shall be compatible and from the same manufacturer.
- If preformed pull boxes are specified, the contractor may use the standard concrete pull box in lieu of the Class 1 or 2 preformed pull box or the double concrete pull box, Type A, in lieu of the Class 3 preformed pull boxes.



**Section A-A
TYPE I DRAIN**



SINGLE CONCRETE PULL BOX



**Section B-B
Type B Double Concrete Pull Box**

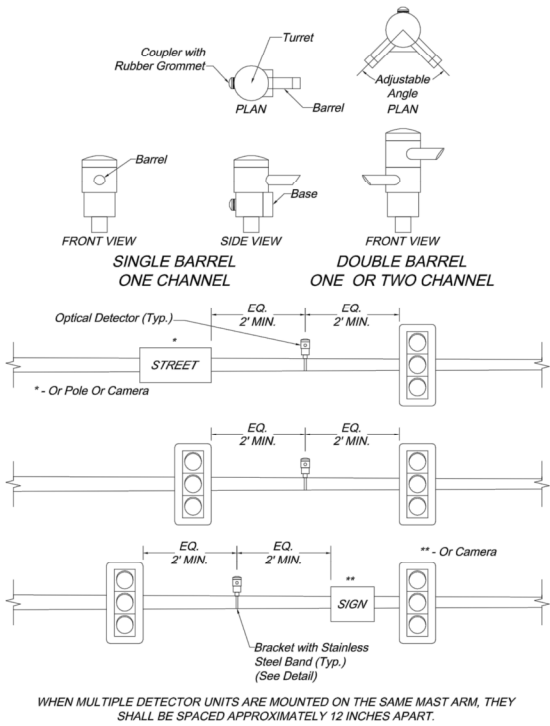
DOUBLE CONCRETE PULL BOX

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PULL BOX DETAILS
 STANDARD DRAWING TS-6

Drawn By: AS
 Checked By: MP
 Date: 09/25/2009
 Project#



Emergency Vehicle Detection Notes:

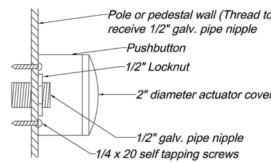
- The detector cable shall be continuous from the optical detector to the traffic signal controller. No splices shall be allowed.
 - The contractor shall label the optical detector cable in all pull boxes by channels as indicated on the plans. This shall be accomplished with aluminum tags attached to the cable with aluminum wire. No direct payment shall be made for this work.
 - Opticom shall be mounted inside the controller cabinet. Unless otherwise indicated on the plans, the placement of the optical detectors shall be centered between the signal heads and/or signal head and sign located on the mast arms. Further information on optical detector placement is shown in the details. The final placement of the optical detector may be adjusted for line of sight requirements.
 - The equipment manufacturer shall be responsible for providing onsite technical assistance to the contractor in final placement of the optical detectors, as well as in all the aspects of the system installation.
 - Preemption sequences and timings shall be developed by the equipment supplier. Timings shall be marked up on the timing sheets from the specific model of controller at each intersection and submitted for review by the City prior to implementation by the supplier. Pre-emption sequences shall use an all red interval or other methods to prevent the occurrence of "Yellow Traps" at intersections with protected/permitted left-turn phasing.
 - Preempts are to be assigned as follows unless otherwise indicated in the plans:
- | Direction | Preempt No. | Channel |
|------------|-------------|---------|
| Northbound | 1 | A |
| Southbound | 2 | B |
| Eastbound | 3 | C |
| Westbound | 4 | D |
- The Contractor shall install the equipment consistent with the equipment manufacturer's recommended installation procedures and interface diagrams in a neat and workmanlike manner. Emergency Vehicle Detection System shall be provided and installed by the contractor and shall consist of all detectors, processors, mounting brackets, etc for a fully operational system.

OPTICAL DETECTOR

Video Detection Notes:

- The video detection system shall consist of video camera(s), video detection processor (VDP), cables, brackets, and all other materials necessary for a fully functional system.
- The video detection system shall include software that detects vehicles in multiple lanes of each direction using only one video camera. Detection Zones (DZ) shall be defined using only a video menu and a pointing device to define and place zones on a video image. Up to 24 DZ per camera shall be available.
- The actual number and location of DZ shall be determined in the field by the City Traffic Engineer. The City reserves the right to have additional zones programmed or modify those shown based on the field programming period completed prior to turning on the signal.
- Video cameras are to be mounted as shown on the traffic signal plans. If the camera is mounted on a Type BL or CL pole, the camera shall be mounted directly to the luminaire bracket arm. If the camera is mounted on a Type B or C pole, the camera shall be mounted on the mast arm using a 6-foot riser.
- Video camera placement, adjustment, setup and initial programming shall be at the direction of the manufacturers representative. The manufacturers representative shall assist with identifying optical camera locations, system setup, programming, and turn-on.

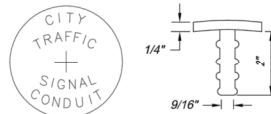
VIDEO DETECTION



Push Button Notes:

- Push buttons shall include 2 mounting brackets each and be of the type as noted in the plans.
- Push buttons shall be ADA approved and weatherproof, mounted in accordance with standard drawing TS-1.

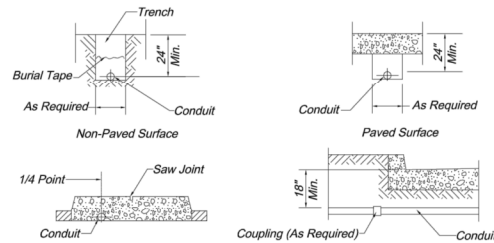
PUSH BUTTON MOUNT DETAIL



CONDUIT MARKER

Conduit Marker Notes:

- Wherever a conduit passes beneath a curbed street, aluminum conduit markers shall be installed in the curb immediately over the conduit location. Conduit markers shall be furnished by the contractor as detailed and shall be installed in the top of the curb by drilling the curb and epoxying the conduit marker in place. Conduit markers shall be flush with the curb. Conduit markers shall be subsidiary to conduit.



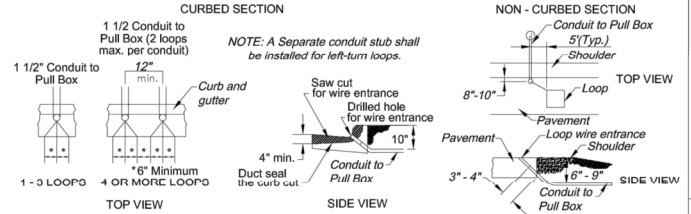
In Proposed Concrete Median On Existing Pavement

0.5% Minimum Slope

Conduit Location Notes:

- Conduit shall be installed to drain, and if metallic all ends shall be threaded and capped.
- The Contractor shall notify the City of Lee's Summit, Department of Public Works Traffic Division at (816) 969-1807 for inspection of the conduit installation. At least 24 hours notice shall be provided. The conduit shall not be covered unless inspected and approved by the Engineer or his authorized representative, so as to ensure proper depth, correct conduit material and proper conduit end treatment as described above.

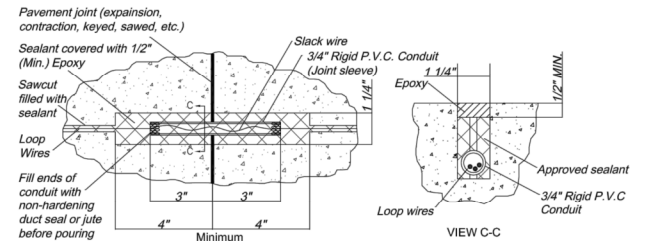
CONDUIT LOCATIONS



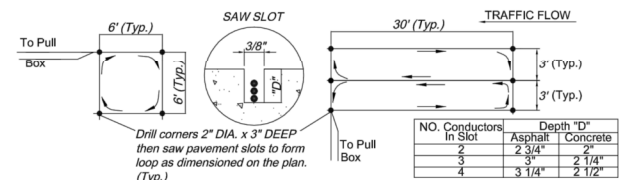
Loop Wire Entrance Notes:

- Saw cut in the curb and gutter section and conduit entrance to be sealed with a pliable, non-hardening duct sealant prior to application of loop sealant. No loop sealant shall be applied in the curb and gutter section or at conduit entrance.
- Grout around conduit inserted into curb or pavement section.
- Each loop shall have a separate lead-in saw cut to the loop wire entrance in the curb or at the edge of pavement.

LOOP WIRE ENTRANCE DETAIL



JOINT CROSSING DETAIL



TYPICAL TRANSVERSE LOOP (3 TURNS)

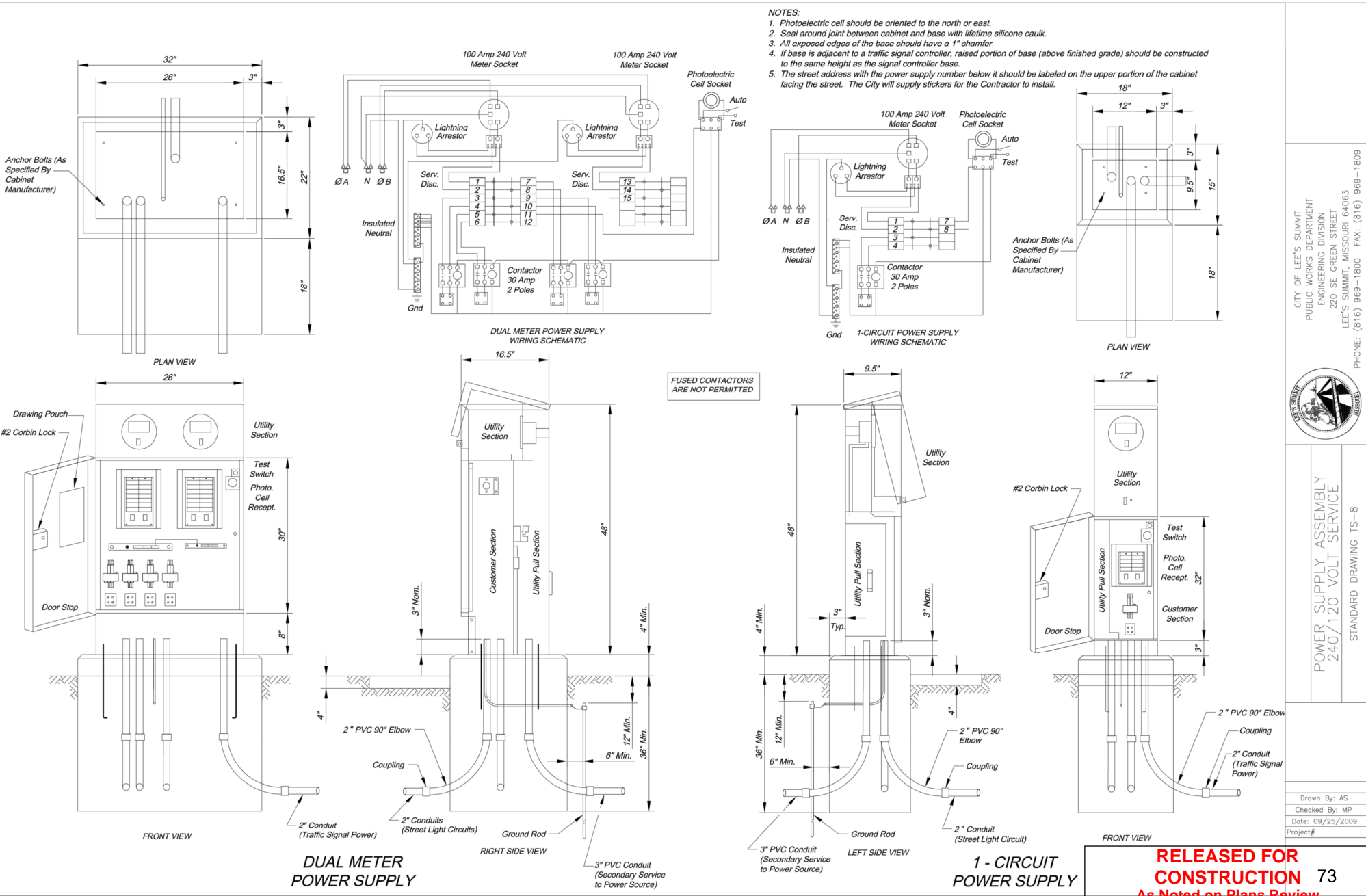
TYPICAL QUADRAPOLE LOOP (2-4 TURNS)

Loop Detection Notes:

- Quadrupole loop to be one continuous wire placed in two turns. All loops to be wound in same direction, with start and end clearly marked at pull box.
- Transverse loop to be one continuous wire placed in three turns. All loops to be wound in same direction, with start and end clearly marked at pull box.
- Slot in pavement for loops to be cut 3/8 inch wide at minimum depth "D" as indicated in Chart A. Slot in pavement for lead shall be 1/2 inch wide at minimum depth "D". Fill slots with an approved asphalt sealer (asphalt pavement) or an approved elastic epoxy sealant (concrete pavement) to within 1/8 inch of pavement surface.
- Other than soldered type splice or splice made with wire nuts at their junction, feeder cable and loop wire shall be of continuous run with no splices. All connections to be watertight with approved splice kits. Watertight connections shall extend to and encompass each outer jacket of the detector feeder and loop wire cables.
- All leads for individual loops to be kept separate and loop wire between the loop and the feeder cable connection shall be twisted three turns per foot.
- All loops shall be wet cut with equipment approved by the City Traffic Engineer.
- Where loops are to be installed on projects involving either asphalt pavement construction or milling and overlay of an existing asphalt pavement, loops shall be installed in the base course prior to placement of the asphalt surface course.
- If existing loops are to be abandoned and new loop installed, abandoned loop wires shall be removed or cut completely through along all slots parallel to vehicle flow.
- Loops shall be #14 AWG stranded wire in pvc duct made up of 2 non-twisted turns in single slot or as recommended by manufacturer of the detector amplifier. Loop shall be placed in sawed slots in a figure eight manner with device which will not damage the wire insulation. Lead-in cable shall be 2-1c #14 AWG twisted.

LOOP DETECTION

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/15/2021



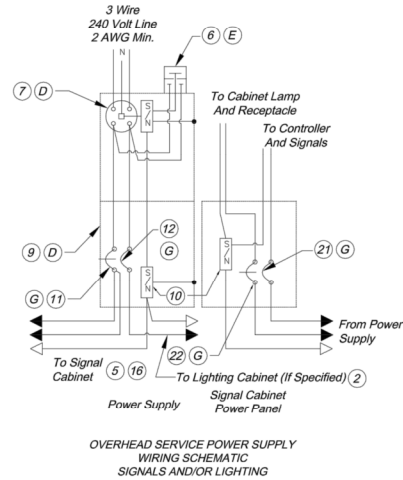
CITY OF LEE'S SUMMIT
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 220 SE GREEN STREET
 LEE'S SUMMIT, MISSOURI 64063
 PHONE: (816) 969-1800 FAX: (816) 969-1809



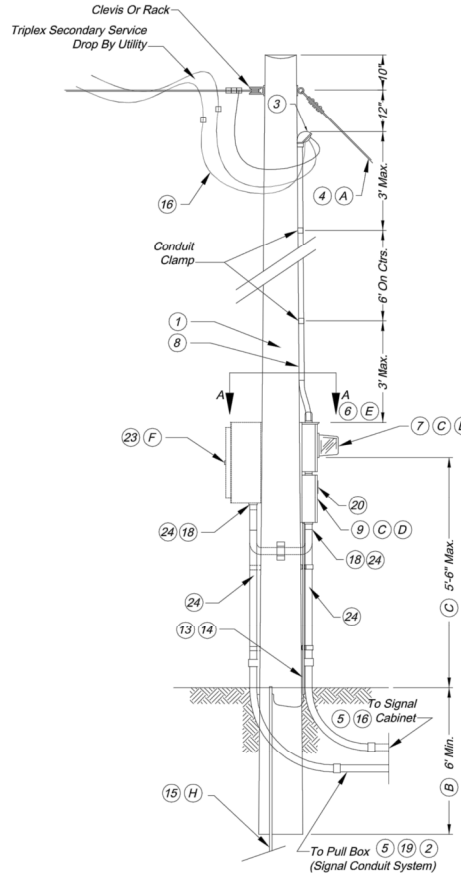
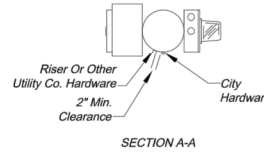
POWER SUPPLY ASSEMBLY
 240/120 VOLT SERVICE
 STANDARD DRAWING TS-8

Drawn By: AS
 Checked By: MP
 Date: 09/25/2009
 Project#

RELEASED FOR CONSTRUCTION 73
 As Noted on Plans Review
 Development Services Department
 Lee's Summit, Missouri
 12/15/2021



Location of Facilities Shall Comply With Utility Company Clearance Standards.



LIST OF MATERIALS	
Item	Description
1	Service pole 30' min., Class IV wood, Contractor provided, City owned. *
2	#8 AWG Min. Cable, 600 volt *
3	Service entrance head
4	Guy cable, as required
5	2" min. rigid conduit with preformed elbows
6	Lightning arrester, Valve type, 2 pole, 650 volt
7	240 volt Meter socket, 100 amp for signals
8	2" min. rigid conduit
9	Service disconnect box, Locking, Raintight, NEMA 4
10	Insulated, Groundable neutral, 200 amp minimum
11	Signal breaker, Single pole, 40 amp min., Type A or B
12	Lighting breaker, Single pole, 40 amp, Type A or B
13	Metal conduit, 1/2"
14	Ground wire, #2 AWG min.
15	Ground rod, 3/4" x 8' min.
16	#2 AWG min. cable, 600 volt
17	Reserved
18	Threaded conduit hub with sealing washers
19	Lighting cables *
20	Weatherproof adhesive label (signals) vinyl raised lettering
21	Type B controller and signal breaker, as specified.
22	Type B auxiliary breaker, 15 amp
23	Lighting control cabinet
24	2" Steel Conduit (minimum)

- Notes**
- (A) Service pole shall be guyed when span of overhead wire exceeds 50'.
 - (B) Increase 1 foot for each 5 feet above 50 feet.
 - (C) Service disconnect boxes and meter boxes shall be aluminum or stainless steel. All hardware, hinges, catches, etc. shall be stainless steel. Meter socket and other equipment shall be U.L. approved, and conform to the requirements of the utility company providing power.
 - (D) Schematic diagram shall be mounted on inside of door.
 - (E) Utility company shall decide if lightning arresters are to be connected on the load or line side of the meter. The utility company shall also decide if the lightning arrester is terminated in the meter or disconnect cabinet. If terminated in the disconnect cabinet, it shall be installed on the connect cabinet.
 - (F) If lighting is specified, install lighting control on power supply.
 - (G) Breakers shall conform to the standard specifications.
 - (H) If subsurface conditions exist which prohibit the placement of the ground rod in vertical position, the rod may be driven at an oblique angle not to exceed 45 degrees from vertical or buried in a trench at least 30 in. deep. Connection to ground rod shall be clamp type as detailed on standard drawing TS-2.

General Notes:

For cable types and installation. See standard specifications.

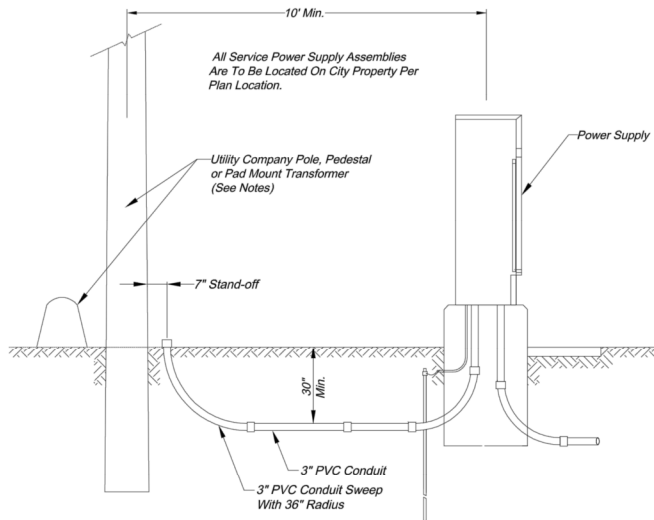
The type power supply assembly is shown on the plans or is designated on the contract.

The utility company shall be notified 30 days prior to date service will be required.

All openings in any utility enclosure, service box, or meter shall be covered and sealed with lifetime silicone caulk.

Contractor to provide sufficient number of ground rod(s) as required for maximum of 25 Ohms resistance to ground.

All materials required excluding reference items as shown on drawing shall be included in price bid for power supply assembly.



SECONDARY SERVICE CONNECTION DETAILS

- NOTES:**
- Contractor shall install a conduit stub 24" to 6" above ground at utility poles. Conduit shall be stubbed to the side of the pole that will allow a direct run up the pole to the transformer without crossing other utility lines or cables. The end of the conduit shall be capped.
 - Contractor shall install conduit in a trench to within 24" of pedestals or pad mount transformers and leave a 36" x 36" x 36" access hole in the ground. Contractor shall keep open trench covered and promptly backfill access hole when service is completed.

OVERHEAD SERVICE POWER SUPPLY TEMPORARY SIGNAL ONLY

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



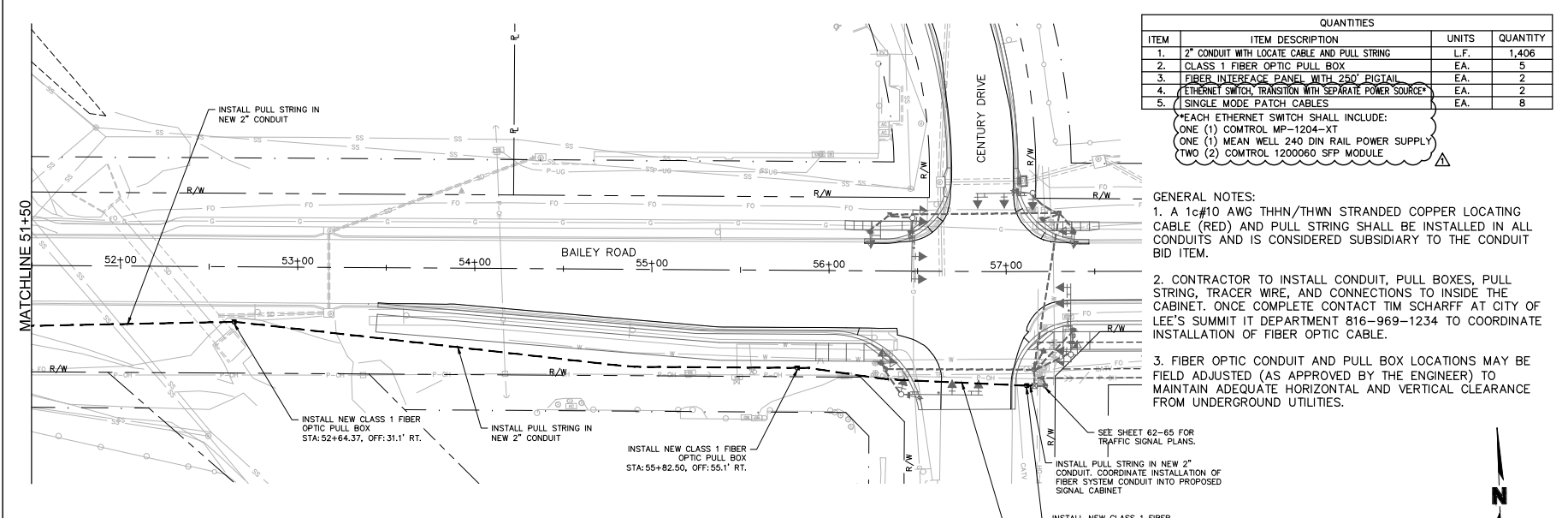
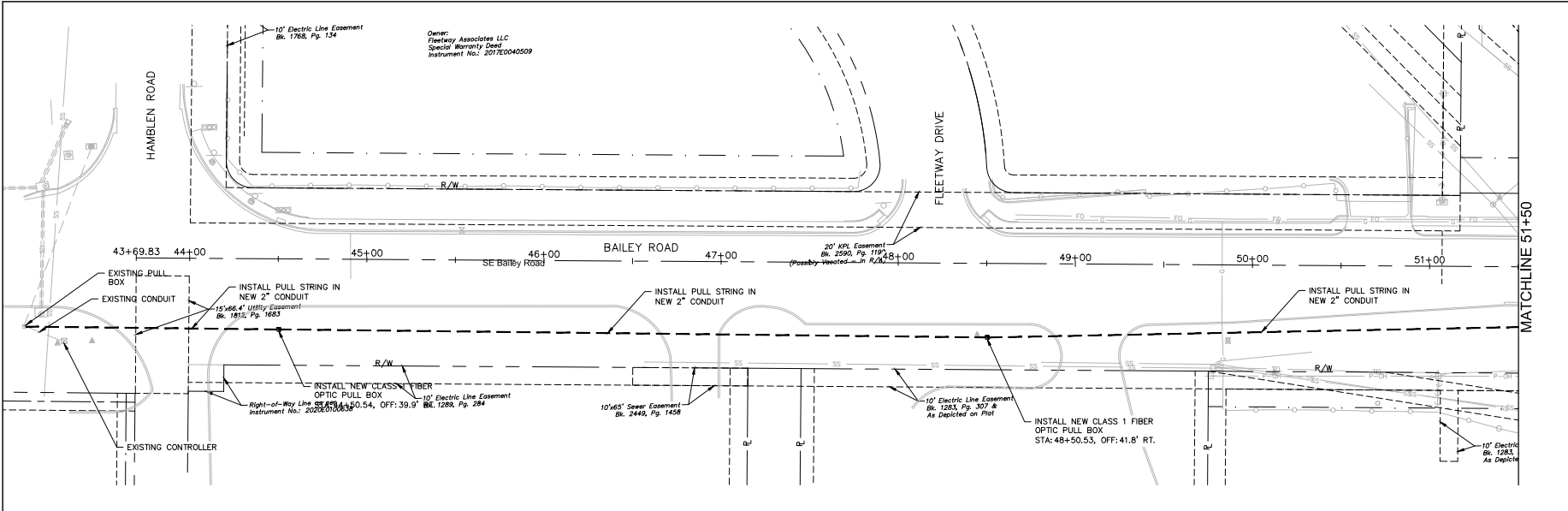
POWER SUPPLY ASSEMBLY
240/120 VOLT SERVICE
STANDARD DRAWING TS-9

Drawn By: AS
Checked By: MP
Date: 09/25/2009
Project#

RELEASED FOR CONSTRUCTION 74
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
12/15/2021

USER: rholter
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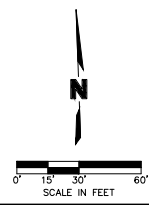


QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	2" CONDUIT WITH LOCATE CABLE AND PULL STRING	L.F.	1,406
2.	CLASS 1 FIBER OPTIC PULL BOX	EA.	5
3.	FIBER INTERFACE PANEL WITH 250' PIGTAIL	EA.	2
4.	ETHERNET SWITCH TRANSITION WITH SEPARATE POWER SOURCE*	EA.	2
5.	SINGLE MODE PATCH CABLES	EA.	8

*EACH ETHERNET SWITCH SHALL INCLUDE:
 ONE (1) CONTROL MP-1204-XT
 ONE (1) MEAN WELL 240 DIN RAIL POWER SUPPLY
 TWO (2) CONTROL 1200060 SFP MODULE

- GENERAL NOTES:**
1. A 1c#10 AWG THHN/THWN STRANDED COPPER LOCATING CABLE (RED) AND PULL STRING SHALL BE INSTALLED IN ALL CONDUITS AND IS CONSIDERED SUBSIDIARY TO THE CONDUIT BID ITEM.
 2. CONTRACTOR TO INSTALL CONDUIT, PULL BOXES, PULL STRING, TRACER WIRE, AND CONNECTIONS TO INSIDE THE CABINET. ONCE COMPLETE CONTACT TIM SCHARFF AT CITY OF LEE'S SUMMIT IT DEPARTMENT 816-969-1234 TO COORDINATE INSTALLATION OF FIBER OPTIC CABLE.
 3. FIBER OPTIC CONDUIT AND PULL BOX LOCATIONS MAY BE FIELD ADJUSTED (AS APPROVED BY THE ENGINEER) TO MAINTAIN ADEQUATE HORIZONTAL AND VERTICAL CLEARANCE FROM UNDERGROUND UTILITIES.

SEE SHEET 62-65 FOR TRAFFIC SIGNAL PLANS.
 INSTALL PULL STRING IN NEW 2" CONDUIT. COORDINATE INSTALLATION OF FIBER SYSTEM CONDUIT INTO PROPOSED SIGNAL CABINET
 INSTALL NEW CLASS 1 FIBER OPTIC PULL BOX STA: 57+11.41, OFF: 64.4' RT
 INSTALL PULL STRING IN NEW 2" CONDUIT



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 As Noted on Plans Review

Development Services Department
 Lee's Summit, Missouri
 12/15/2021

Olsson Engineering, Inc. State Office: 4000 N. Highway 70, Suite 100
 7201 West 133rd Street, Suite 200
 Overland Park, KS 66223-4750
 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olsan.com

REV. NO.	DATE	DESCRIPTION	BY
1	08/25/2021	ASB #28	JAB

REVISIONS

2021

FIBER INTERCONNECT
 BAILEY ROAD

LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

C.O.A. NO. 001592
 DRAWN BY: JBC
 CHECKED BY: JBC
 APPROVED BY: JBC
 GAUC BY: THE
 PROJECT NO. 0200103
 DWG NO. FIB0010
 DATE: 8/25/2021

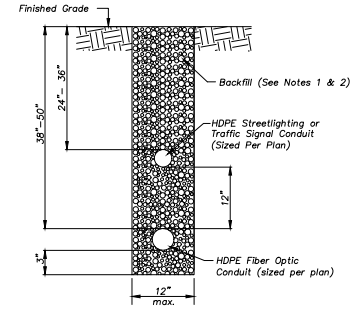
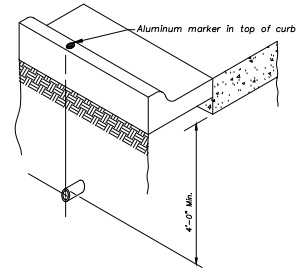
SHEET
 75 OF 101

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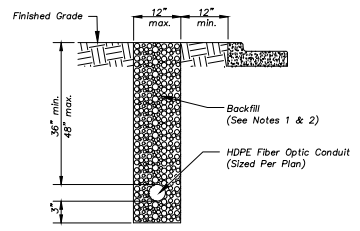
Conduit Marking Detail Notes:

- Conduit under all roadway surfaces shall be placed a minimum of 4'-0" below the bottom of pavement and shall extend to a junction box or service box. Refer to The City of Lee's Summit Horizontal Directional Drilling Guidelines Handbook, latest edition for further requirements for conduit installation under roadway surfaces. The conduit shall be installed to drain. All ends shall be capped if not used. An aluminum marker shall be placed in the top of the curb directly over the conduit. Aluminum markers will be furnished by The City of Lee's Summit.
- The contractor shall notify the City of Lee's Summit, Department of Public Works Traffic Services Division, ???-???, For inspection of the conduit installation by the streetlighting inspector, at least 24 hours notice shall be provided. The conduit shall not be covered so as to ensure proper depth, correct conduit material, and proper conduit end treatment as described above.

Conduit Marking Detail



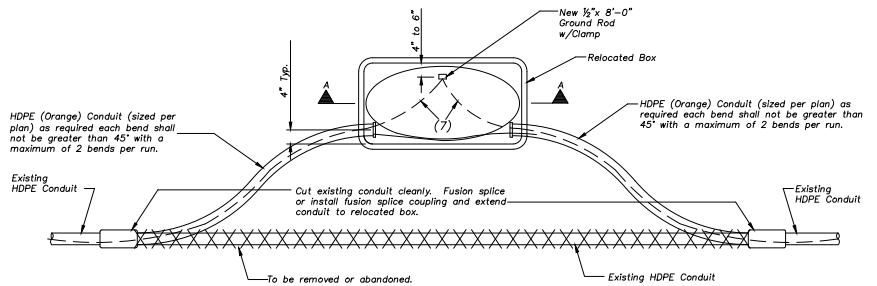
Trench w/Multiple Conduits in Unpaved Areas



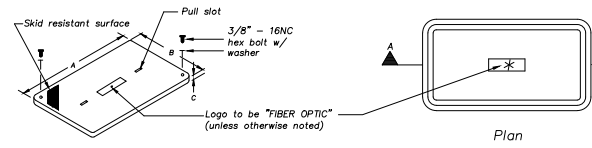
Trenching in Unpaved Areas

Notes:

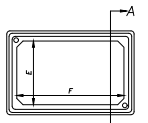
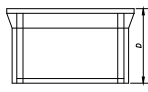
- All trenches for conduit under proposed paved surfaces shall be backfilled with flowable fill.
- Backfill in unpaved areas shall be earth or AB-3 and free of rubble and rock. Conduits shall be pitched to drain.
- If multiple conduits are installed, they shall have a minimum of 12" horizontal or vertical separation between them.



Plan (Conduit Position) Relocated Box Installation Detail



Cover



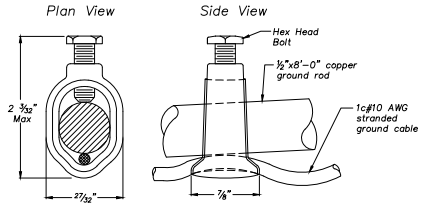
Box



Section A-A

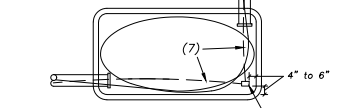
Box Type	Approximate Dimensions (inches)					
	A	B	C	D	E	F
Type 1 Fiber	35 5/8	24	3	24	22 1/4	33 7/8
Type 2 Fiber (B)	47 5/8	30 1/8	3	24	28 1/8	45 5/8

Fiberglass Reinforced Polymer Concrete Fiber Optic Service Box Details

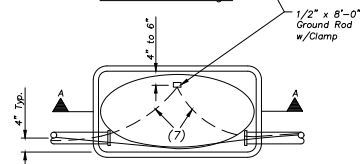


Ground Rod Clamp Connection Detail

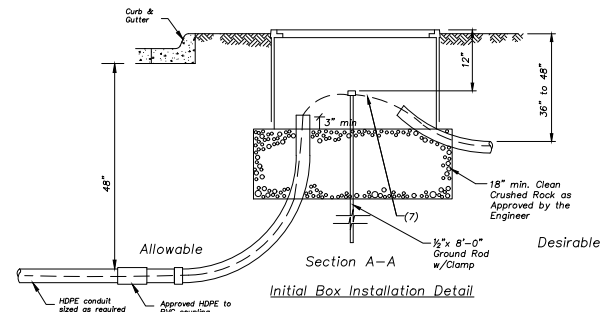
RELEASED FOR CONSTRUCTION
 As Noted on Plans Review
 Development Services Department
 Lee's Summit, Missouri
 12/15/2021



Plan (Conduit Position) Directional Change



Plan (Conduit Position) Straight Through Run



Initial Box Installation Detail

olsson

Missouri Engineering, Inc. 2000 North Collegeville of Parkway, Suite 100
 7381 West 133rd Street, Suite 200
 Overland Park, KS 66223-1750
 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olsson.com

STATE OF MISSOURI
 PROFESSIONAL ENGINEER
 LICENSE NUMBER
 05-18-21

REV.	NO.	DATE	DESCRIPTION

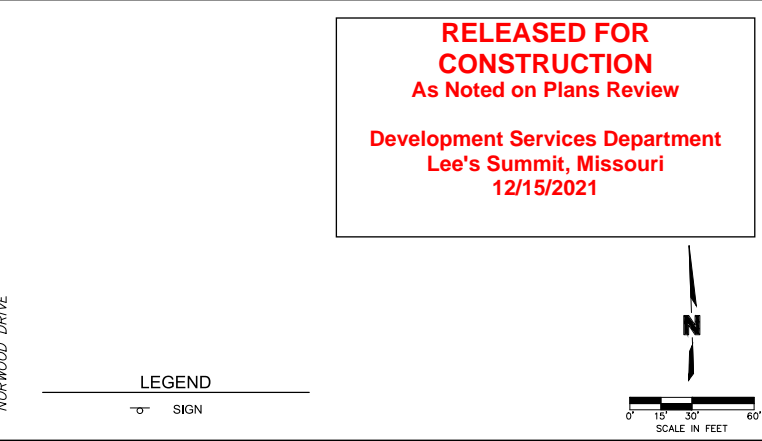
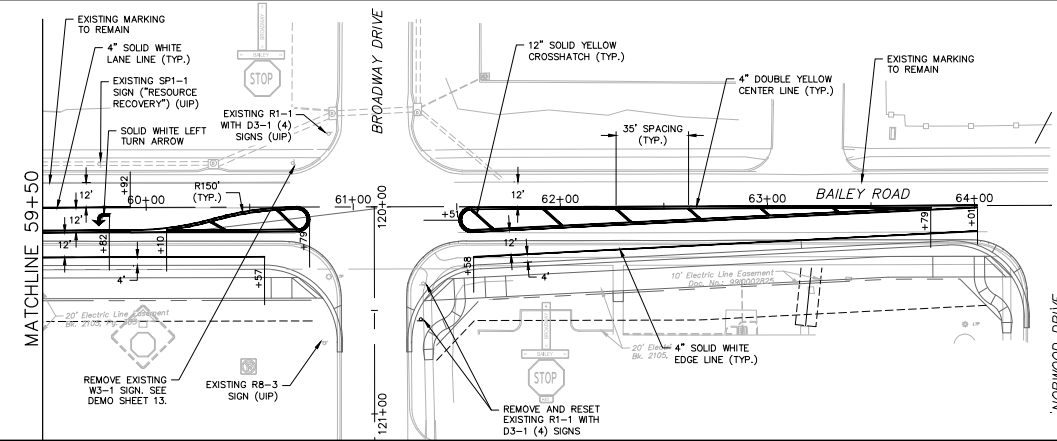
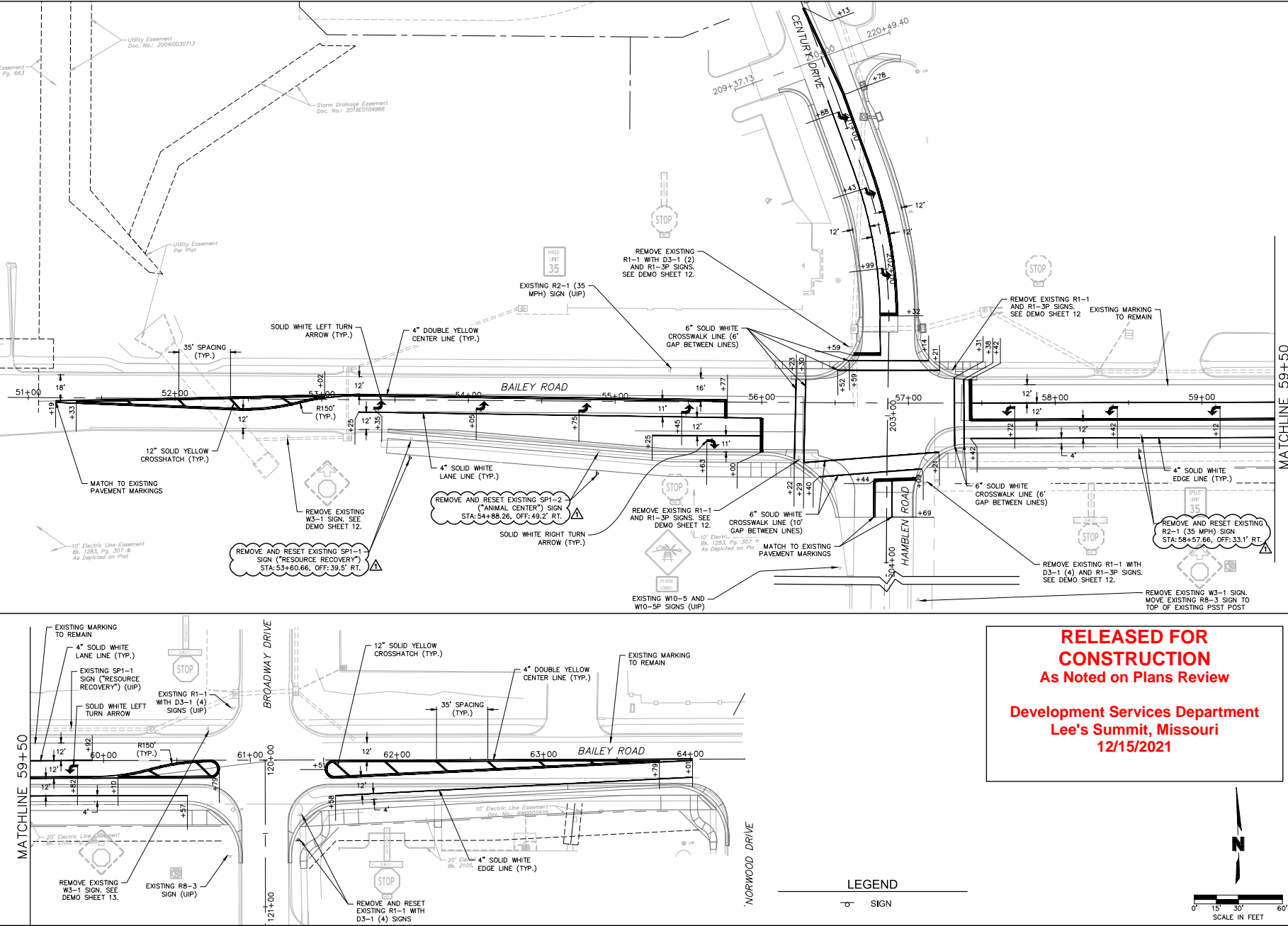
FIBER DETAILS
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

2021

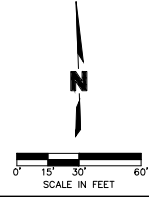
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 DRAWN BY: JBC
 CHECKED BY: JBC
 APPROVED BY: JBC
 GAICB NO. 000000
 DWG NO. 108/003
 DATE: 8/25/2021

SHEET
78 OF 101

DWG: \\le-oma-1st\nc-pro\p\2020\020-0103\40-Design\AutoCAD\Plan\Plan\Sheets\TFC\PAVEMENT MARKING & SIGNING PLAN\LEE'S SUMMIT SET\SET_SAS_CD00103.dwg USER: rheller
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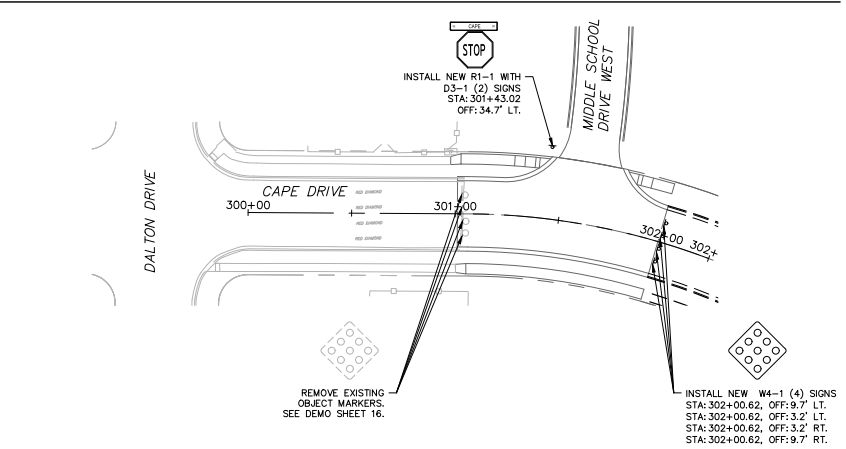
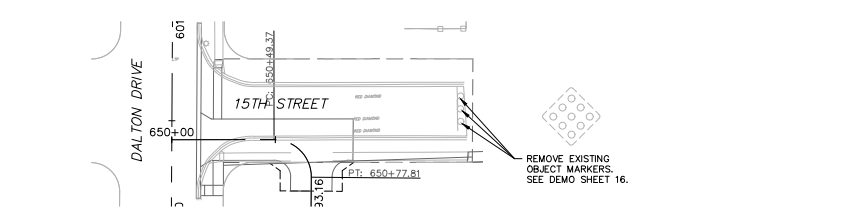
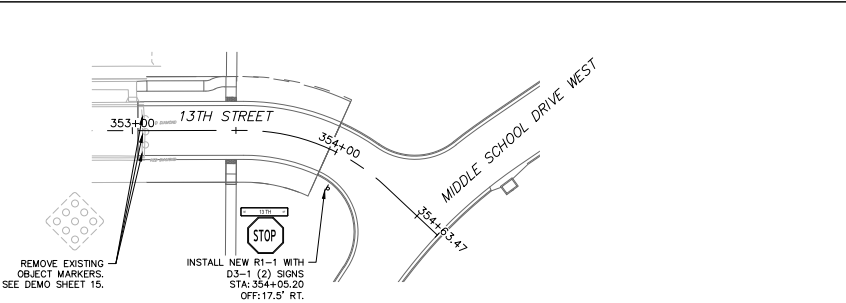
**RELEASED FOR
CONSTRUCTION**
 As Noted on Plans Review
 Development Services Department
 Lee's Summit, Missouri
 12/15/2021



MATCHLINE 59+50

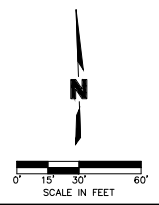
	
<p style="text-align: center;">olsson</p> <p style="font-size: 8px;">1400 E. Blue Springs Blvd., Suite 200, Blue Springs, MO 64015 7281 West 133rd Street, Suite 200, Overland Park, KS 66223-4750 TEL: 913.381.1170 FAX: 913.381.1174 www.olsan.com</p>	<p style="text-align: center;">STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER 05181211</p>
<p>PAVEMENT MARKING AND SIGNING PLAN BAILEY ROAD</p>	<p>BY: JMB DATE: 08/25/2021 REVISIONS</p>
<p>LEE'S SUMMIT MIDDLE SCHOOL #4 PUBLIC ROAD IMPROVEMENTS</p>	<p>2021</p>
<p style="font-size: 8px;">C.O.G. NO. 001582 DRAWN BY: JBC CHECKED BY: JMB APPROVED BY: JMB GAUC BY: TFC PROJECT NO. 02000103 DWG NO. 10510103 DATE: 8/25/2021</p>	
<p>SHEET 79 OF 101</p>	

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PERMANENT SIGNING SUMMARY							
STATION	STREET REFERENCE	OFFSET FROM C/L	MUTCD DESIGNATION	SIGN SIZE	AREA (SF)	POST TYPE	REMARKS
53+60.66	BAILEY ROAD	39.5' RIGHT	SP1-1 (RESOURCE RECOVERY)			SQUARE	Remove and Reset on New Post
54+88.26	BAILEY ROAD	49.2' RIGHT	SP1-2 (ANIMAL CENTER)			SQUARE	Remove and Reset on New Post
-	BAILEY ROAD	-	R2-1 (35 MPH)			-	Use In Place
-	HAMBLEN ROAD	-	W10-5			-	Use In Place
-	HAMBLEN ROAD	-	W10-5P			-	Use In Place
-	HAMBLEN ROAD	-	R8-3			-	Move Existing Sign to Top of Existing Post
58+57.66	BAILEY ROAD	33.1' RIGHT	R2-1 (35 MPH)			SQUARE	Remove and Reset on New Post
-	BAILEY ROAD	-	SP1-1 (RESOURCE RECOVERY)			-	Use In Place
-	BROADWAY DRIVE	-	R1-1			-	Use In Place
-	BROADWAY DRIVE	-	D3-1 (BAILEY RD)			-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BAILEY RD)			-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BROADWAY DR)			-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BROADWAY DR)			-	Shared Post
120+54.34	BROADWAY DRIVE	22.4' LEFT	R1-1			SQUARE	Remove and Reset on New Post
-	BROADWAY DRIVE	-	D3-1 (BAILEY RD)			-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BAILEY RD)			-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BROADWAY CIR)			-	Shared Post
-	BROADWAY DRIVE	-	D3-1 (BROADWAY CIR)			-	Shared Post
-	BAILEY ROAD	-	R8-3			-	Use In Place
-	BAILEY ROAD	-	R1-1			-	Use In Place
-	BAILEY ROAD	-	D3-1 (BAILEY RD)			-	Shared Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)			-	Shared Post
-	BAILEY ROAD	-	D3-1 (COUNTRY LN)			-	Shared Post
-	BAILEY ROAD	-	D3-1 (COUNTRY LN)			-	Shared Post
87+19.55	BAILEY ROAD	47.2' RIGHT	R1-1	30"x30"	6.25	SQUARE	Install on New Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	9" x 42"	2.63	-	Shared Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	9" x 42"	2.63	-	Shared Post
93+43.90	BAILEY ROAD	53.7' RIGHT	R1-1	30"x30"	6.25	SQUARE	Install on New Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	9" x 42"	2.63	-	Shared Post
-	BAILEY ROAD	-	D3-1 (BAILEY RD)	9" x 42"	2.63	-	Shared Post
354+05.20	13TH STREET	17.5' RIGHT	R1-1	30"x30"	6.25	SQUARE	Install on New Post
-	13TH STREET	-	D3-1 (13TH ST)	9" x 36"	2.25	-	Shared Post
-	13TH STREET	-	D3-1 (13TH ST)	9" x 36"	2.25	-	Shared Post
301+43.02	CAPE DRIVE	34.7' LEFT	R1-1	30"x30"	6.25	SQUARE	Install on New Post
-	CAPE DRIVE	-	D3-1 (CAPE DR)	9" x 36"	2.25	-	Shared Post
-	CAPE DRIVE	-	D3-1 (CAPE DR)	9" x 36"	2.25	-	Shared Post
302+00.62	CAPE DRIVE	9.7' LEFT	W4-1	18"x18"	2.25	SQUARE	Install on New Post
302+00.62	CAPE DRIVE	3.2' LEFT	W4-1	18"x18"	2.25	SQUARE	Install on New Post
302+00.62	CAPE DRIVE	3.2' RIGHT	W4-1	18"x18"	2.25	SQUARE	Install on New Post
302+00.62	CAPE DRIVE	9.7' RIGHT	W4-1	18"x18"	2.25	SQUARE	Install on New Post
TOTALS					54	12	

RELEASED FOR CONSTRUCTION
 As Noted on Plans Review
 Development Services Department
 Lee's Summit, Missouri
 12/15/2021



STATE OF MISSOURI
 PROFESSIONAL ENGINEER
 05-18-21

olsson

1600 E. Enterprise, 1st Floor, Overland Park, KS 66202
 7281 West 133rd Street, Suite 200, Overland Park, KS 66223-4750
 TEL: 913.381.1170 FAX: 913.381.1174
 www.olsan.com

PAVEMENT MARKING AND SIGNING PLAN
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

DATE: 08/25/2021
 REVISIONS DESCRIPTION
 BY: JMR

2021

SHEET 81 OF 101

DWG: F:\2020\0001-0500\020-0103\45-Design\AutoCAD\Print Sheets\ITC PAVEMENT MARKING & SIGNING PLAN\LEE'S SUMMIT SET\F_SAS_0200103.dwg USER: rholter
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PAVEMENT MARKING SUMMARY

STATION TO STATION	LOCATION	4" SOLID WHITE LANE LINE (LF)	4" BROKEN WHITE LANE LINE (LF)	8" DASHED WHITE EXTENSION LINE (LF)	4" SOLID YELLOW LANE (LF)	4" BROKEN YELLOW LANE LINE (LF)	12" YELLOW CROSSHATCH LINE (LF)	24" WHITE STOP LINE (LF)	6" WHITE CROSSWALK LINE (LF)	WHITE TURN ARROW (EA)		
										RT	LT	
51+19	51+33	BAILEY ROAD			28							
51+33	53+02	BAILEY ROAD			678		26					
53+02	55+77	BAILEY ROAD			550							
53+25	56+00	BAILEY ROAD	275								4	
55+25	56+00	BAILEY ROAD	75							1		
55+77	55+77	BAILEY ROAD					12					
56+00	56+00	BAILEY ROAD					23					
56+22	56+23	BAILEY ROAD							54			
56+29	56+30	BAILEY ROAD							56			
56+29	57+21	BAILEY ROAD							92			
56+40	57+09	BAILEY ROAD							70			
56+52	57+21	BAILEY ROAD							70			
56+59	57+14	BAILEY ROAD							55			
200+13	202+32	CENTURY DRIVE			442							
200+78	202+59	CENTURY DRIVE	179								3	
202+32	202+32	CENTURY DRIVE					12					
202+59	202+59	CENTURY DRIVE					18					
203+44	203+44	CENTURY DRIVE					29					
203+44	203+69	CENTURY DRIVE	25									
203+44	203+69	CENTURY DRIVE			50							
57+31	57+31	BAILEY ROAD							47			
57+38	57+38	BAILEY ROAD							44			
57+42	57+42	BAILEY ROAD					28					
57+42	59+92	BAILEY ROAD	250								4	
57+42	60+10	BAILEY ROAD			534							
57+42	60+57	BAILEY ROAD	315									
60+10	60+79	BAILEY ROAD			288		22					
61+51	63+79	BAILEY ROAD			926		51					
61+58	64+01	BAILEY ROAD	243									
63+79	64+01	BAILEY ROAD			44							
83+60	83+84	BAILEY ROAD			48							
83+60	86+39	BAILEY ROAD	280									
83+84	86+39	BAILEY ROAD			1030		53					
87+43	89+43	BAILEY ROAD	200								3	
87+43	89+60	BAILEY ROAD			434							
87+43	92+61	BAILEY ROAD	518									
89+60	92+61	BAILEY ROAD			1218		115					
93+73	95+73	BAILEY ROAD	200								3	
93+73	95+99	BAILEY ROAD			452							
93+73	98+31	BAILEY ROAD	459									
95+99	98+04	BAILEY ROAD			824		28					
98+04	98+31	BAILEY ROAD			54							
TOTALS			3019	0	0	7600	0	295	122	488	1	17

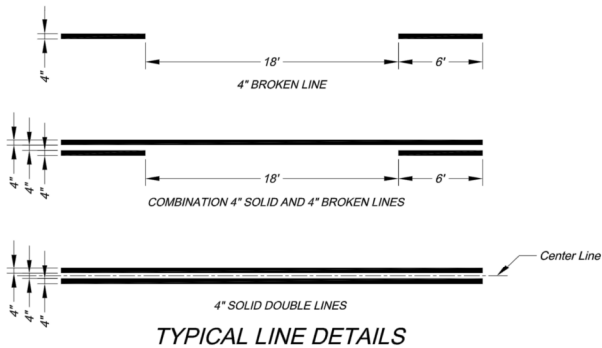


REV. NO.	DATE	DESCRIPTION	BY
1	08/25/2021	ASB #29	JMB

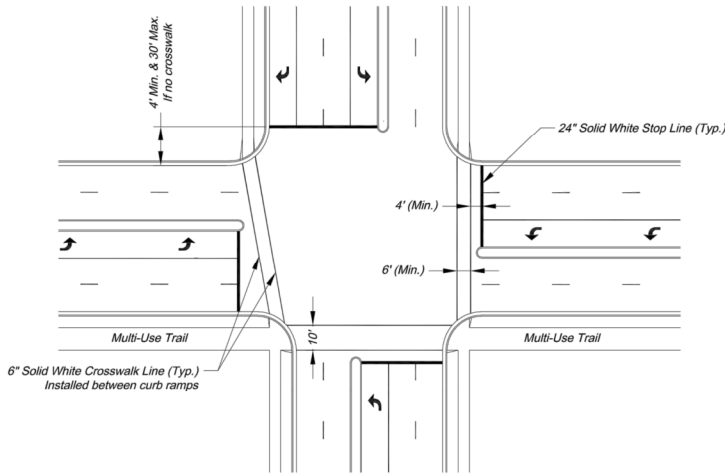
PAVEMENT MARKING AND SIGNING PLAN
 BAILEY ROAD
 LEE'S SUMMIT MIDDLE SCHOOL #4
 PUBLIC ROAD IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI
 2021

C.O.A. NO. 001592
 DRAWN BY JBC
 CHECKED BY JBC
 APPROVED BY JBC
 GAUC BY TJE
 PROJECT NO. 09020103
 DWG NO. 105.0010
 DATE 8/25/2021

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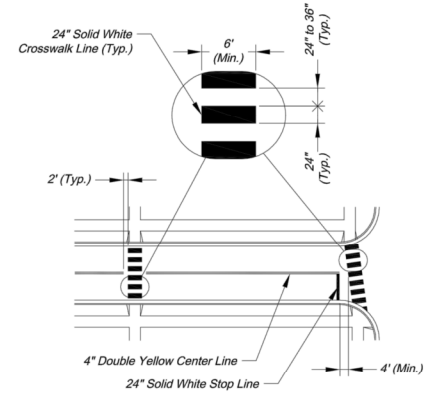


NOTES:
 1. All edge line, center line, and lane line pavement markings shall be 4" wide unless otherwise noted.
 2. Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white. Median or left side edge lines on divided roadways are to be solid yellow. Edge lines and center lines shall be continuous across driveways.

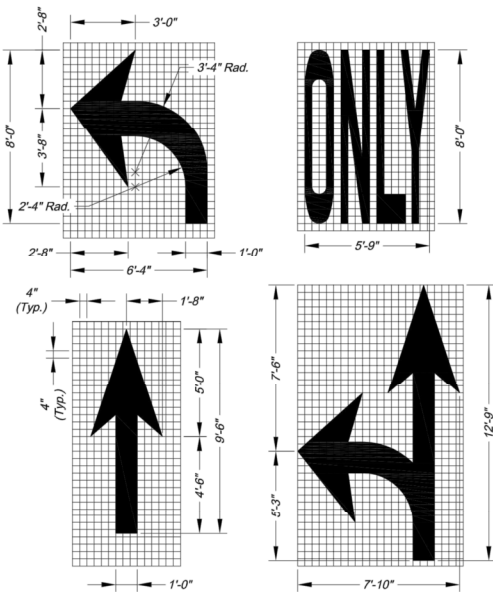


TYPICAL INTERSECTION MARKINGS

NOTES:
 1. Transverse crosswalk lines shall be installed such that the distance between lines is at least 6 or 10 feet.
 2. Stop lines are required at signalized intersections, on multi-lane stop controlled approaches, or in front of crosswalks at controlled intersections.

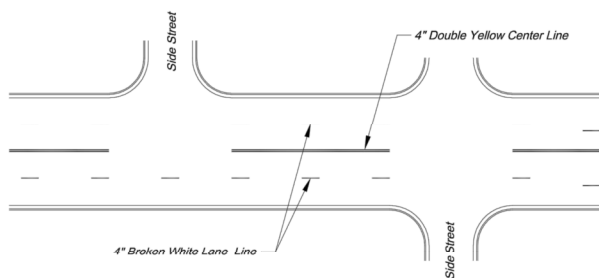


TYPICAL MIDBLOCK OR SCHOOL CROSS WALK

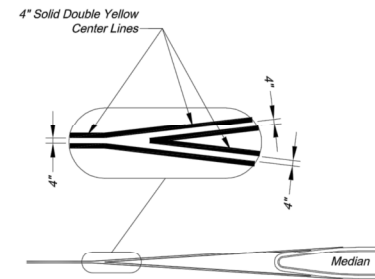


ARROW AND SYMBOL DETAILS

NOTES:
 1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
 2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.



TYPICAL MARKINGS FOR FOUR-LANE UNDIVIDED ROADWAY



TYPICAL MEDIAN NOSE CENTER LINE DETAIL

PAVEMENT MARKING GENERAL NOTES:

- All pavement markings shall be in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices (MUTCD)*.
- All words and symbols shall conform to the latest edition of *Standard Alphabets for Highway Signs and Pavement Markings* printed by the U.S. Department of Transportation, Federal Highway Administration.
- Pavement markings, either temporary or permanent are required at all times if the roadway is open to traffic.
- All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
- The proposed permanent markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
- Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a speed limit of 30 mph or more.
- Edge lines shall be marked on all non-curbed streets.

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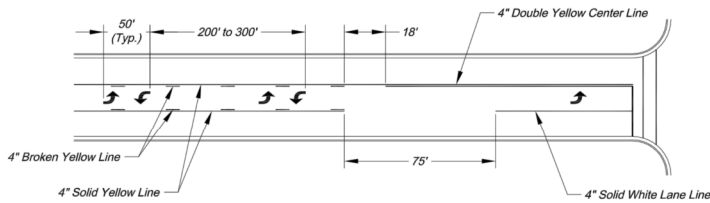
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 Lee's Summit, Missouri
 12/15/2021

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

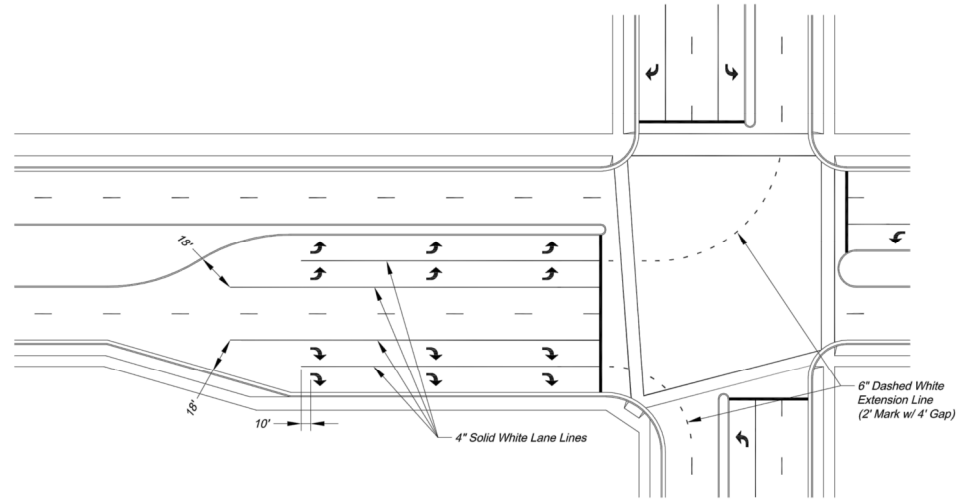


Project: ROADWAY MARKING DETAILS
 Sheet Name: STANDARD DRAWING PM-1

Drawn By: AS
 Checked By: JW
 Date: 09/09/2009
 Project#

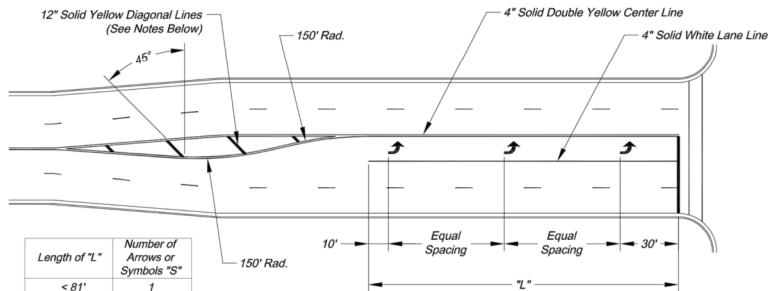


TYPICAL MARKINGS FOR TWO-WAY LEFT-TURN LANE



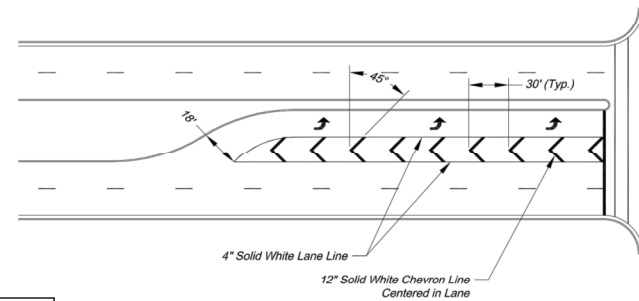
TYPICAL DUAL TURN LANE MARKINGS

NOTE:
1. Dashed extension lines shall not extend through crosswalks.



TYPICAL TURN LANE MARKINGS

NOTES:
1. Diagonal lines are required between centerlines if the width of the area between the center lines is greater than 12' and/or the length of the area between center lines is greater than 250'.
2. Diagonal lines should be spaced at 5' increments, equal to the posted speed limit.
3. Equal Spacing is calculated as $(L - 40) / (S - 1)$.
4. When a through lane of traffic terminates as a mandatory turn lane, Arrow and "ONLY" symbols should be marked in the turn lane, in alternating order. The first and last symbols should be Arrows.



TYPICAL STRIPED OUT TURN LANE MARKINGS

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INTERSECTION MARKING DETAILS

Project Name: STANDARD DRAWING PM-2

Project:

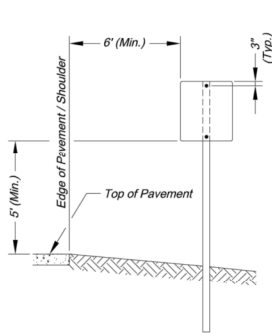
Drawn By: AS
Checked By: JW
Date: 09/09/2009
Project#

2 OF 2

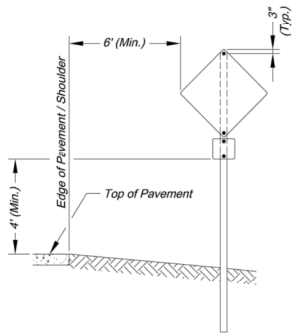
84

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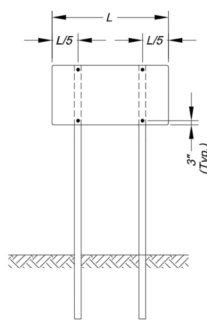
Development Services Department
Lee's Summit, Missouri
12/15/2021



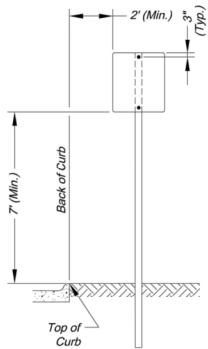
SIGN INSTALLATION FOR NON-CURBED STREET



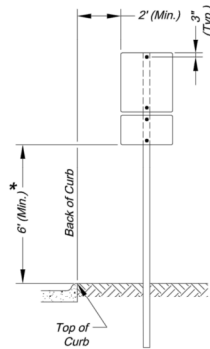
SIGN INSTALLATION WITH AUXILIARY SIGN FOR NON-CURBED STREET



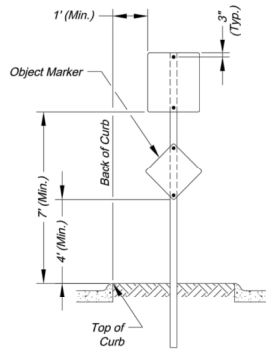
SIGN INSTALLATION WITH TWO SIGN POSTS



SIGN INSTALLATION FOR CURBED STREET



SIGN INSTALLATION WITH AUXILIARY SIGN FOR CURBED STREET



SIGN INSTALLATION FOR RAISED MEDIANS

SIGN MOUNTING DETAILS

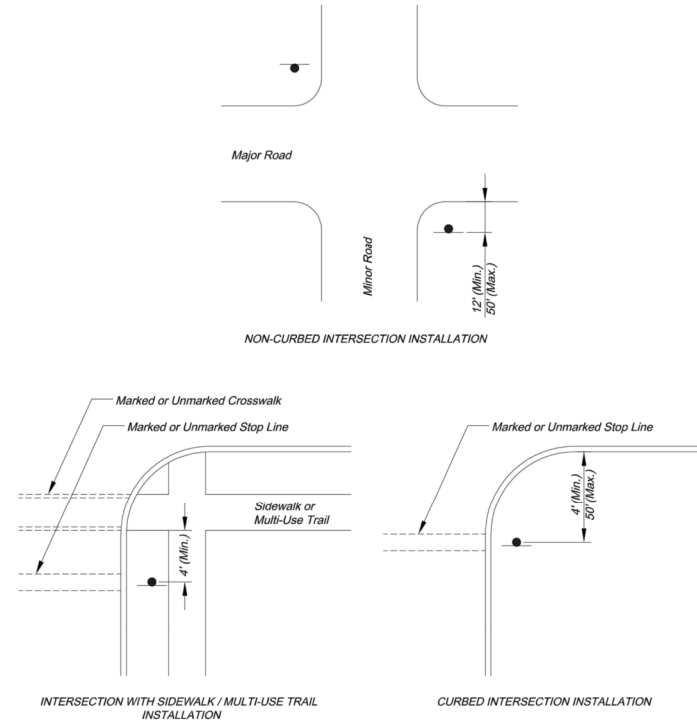
* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.

NOTE:

1. Generally, the sign mounting height should not be more than 1' greater than the minimum mounting height.

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CONTROL SIGN LOCATION

MEDIAN SIGN LOCATION

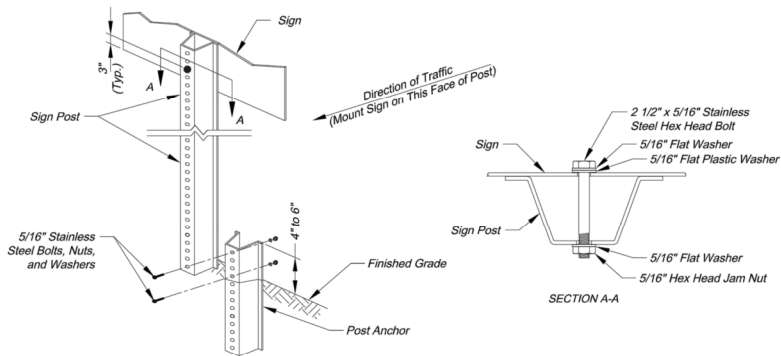
- NOTES:**
1. A 4" P.V.C. sleeve shall be installed in new concrete medians at each location where a sign is to be installed.
 2. For existing concrete medians, a 4" hole shall be cored into the concrete.

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SIGN MOUNTING DETAILS

STANDARD DRAWING SN-1

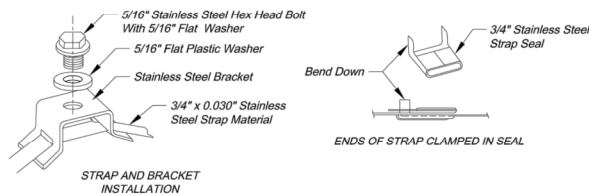
Project:
Drawn By: AS
Checked By: JW
Date: 05/26/2009
Project#:
1 OF 3
85



U-STEEL POST DETAILS

U-STEEL POST NOTES:

1. Splice shall be positioned entirely between finished grade line and 18" above finished grade line. Only one splice will be allowed per post.
2. U-Steel post shall be 3 lb./ft., galvanized according to ASTM A123.
3. U-Steel post can be used for installation of signs with an area of less than 2.5 square feet.
4. All posts shall be embedded a minimum of 3 feet.



STRAP TYPE SIGN SUPPORT DETAILS

METAL POLE SIGN MOUNTING NOTES:

1. Signs on metal poles shall be attached with two brackets and stainless steel bands.
2. Holes in sign for attachment to the mounting brackets shall be offset a minimum of 2 inches from the edge of the sign.
3. Holes in sign shall be located such that the sign is level.
4. All strap, bracket, and seal materials should be Type 201 stainless steel.

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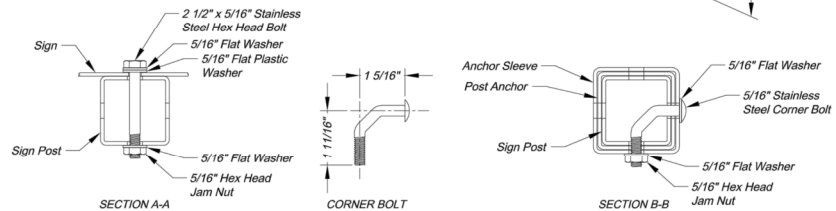
**Development Services Department
Lee's Summit, Missouri
12/15/2021**

PERMANENT SIGNING GENERAL NOTES:

1. All signing shall be in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices (MUTCD)*.
2. The Contractor is responsible for avoiding any and all utilities when installing sign posts, whether the utility is indicated on the plans or not.
3. All workmanship and materials shall be subject to the inspection and approval of the Public Works Department of the City of Lee's Summit.
4. The Contractor shall stake the location of all sign posts to be installed. The City Inspector shall inspect the staking prior to installation. Minor relocation to avoid conflicts may be allowed with the approval of the City Traffic Engineer or designee.
5. Signs shown to be installed on the side of metal poles shall be mounted with stainless steel straps or wing brackets as detailed. No signs are to be installed on wood poles. See Traffic Signal Standard Drawings for the installation of signs on mast arms.
6. All post mounted signs shall be installed with breakaway anchors according to the Standard Drawings.
7. All existing signs will be used in place during construction and protected from damage unless otherwise indicated in the plans. If the Contractor damages any existing sign or posts during construction, the Contractor will be required to replace the damaged materials with new signs or posts of the same type and size at the Contractor's expense. The Contractor shall be responsible for removing and storing any signs that are to be reinstalled on the project. All equipment shall be reinstalled in good condition.
8. Existing permanent signs and posts removed by the Contractor for construction purposes which are not to be reinstalled shall be delivered to the City's Public Works Maintenance Facility (1971 SE Hambien Road). The Contractor shall be responsible for removing and storing equipment in good condition and is fully responsible for the equipment until it is delivered.
9. All Stop, Yield, or street name signs shall be maintained in a conspicuous location for the driving public. All Stop and Yield signs removed for construction purposes can be temporarily erected in reflectorized drums (no less than 7 feet above the pavement surface) until they can be reinstalled. Any temporary Stop or Yield sign installation to be left in place overnight will require prior approval from the City Inspector.

SQUARE STEEL POST INSTALLATION SEQUENCE:

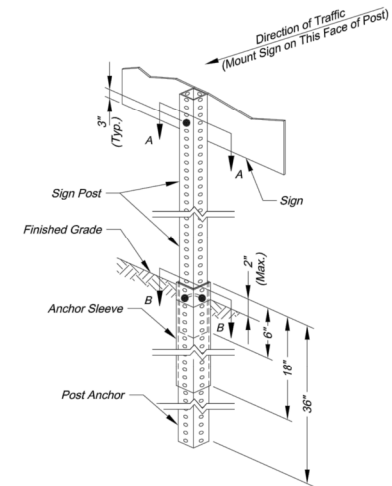
1. Sign post anchor driven partially into the ground using a drive cap with a sledge or power equipment.
2. Anchor sleeve slipped over anchor and drive into the ground together with the sign post anchor.
3. Insert sign post into the post anchor and bolt in place.



SQUARE STEEL POST DETAILS

SQUARE STEEL POST NOTES:

1. Square steel sign posts and break-away anchor shall consist of the following materials:
 Sign Post - 14 Ga. 2" x 2" Square Steel Post
 Post Anchor - 12 Ga. 2 1/4" x 2 1/4" x 36" Square Steel Post
 Anchor Sleeve - 12 Ga. 2 1/2" x 2 1/2" x 18" Square Steel Post
2. 14 Gauge posts must meet a certified minimum yield strength of 60,000 psi.
3. In all installations the first hole above the finished grade line on the sign post, anchor, and anchor sleeve must be in line for the insertion of the corner bolt.
4. The maximum area for one sign post is 9.0 square feet. A sign or combination of signs with an area greater than 9.0 square feet will require two posts. Also, signs with a width greater than 36" (not including 36" x 36" diamond shaped signs) will require two posts.



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PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
2220 SE GREEN STREET
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SIGN POST DETAILS
STANDARD DRAWING SN-2

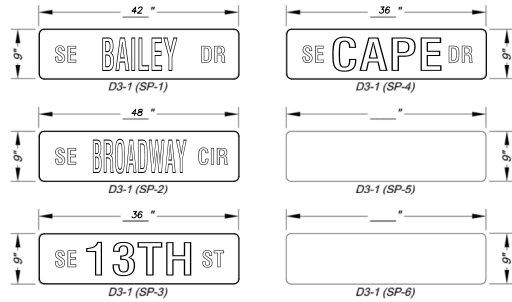
Project:
Sheet Name:
Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#

STANDARD ABBREVIATION LISTS

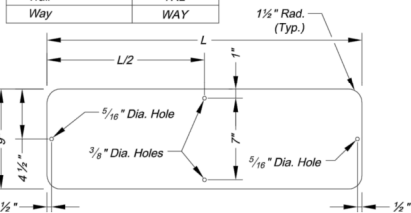
Named Streets		Numbered Streets	
Avenue	AVE	First	ST
Boulevard	BLVD	Second	ND
Circle	CIR	Third	RD
Creek	CR	Fourth to Tenth	TH
Court	CT		
Crossing	XING		
Drive	DR		
Highway	HWY		
Lane	LN		
Parkway	PKWY		
Place	PL		
Road	RD		
Street	ST		
Terrace	TER		
Trail	TRL		
Way	WAY		

STREET NAME SIGN QUANTITIES

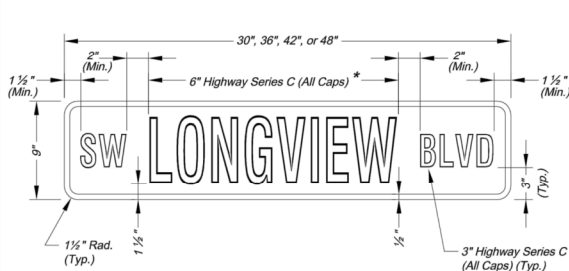
Sign Designation	Sign Size	Sign Area (Sq. Ft.)	Number	Quantity (Sq. Ft.)
D3-1 (BAILEY RD)	9" x 42"	2.63	4	10.50
D3-1 (BROADWAY CIR)	9" x 48"	3.00	0	0.00
D3-1 (13TH ST)	9" x 36"	2.25	2	4.50
D3-1 (CAPE DR)	9" x 36"	2.25	2	4.50



PROJECT SIGN DETAILS

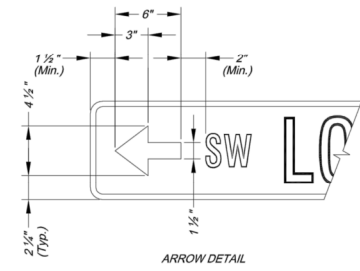


STREET NAME SIGN BLANK DETAILS
For Mounting on Square Steel Posts

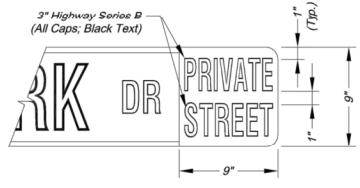


NAMED STREET NAME SIGN DETAIL

* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.



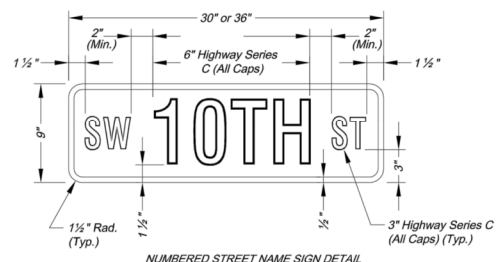
ARROW DETAIL



PRIVATE STREET TAG DETAIL

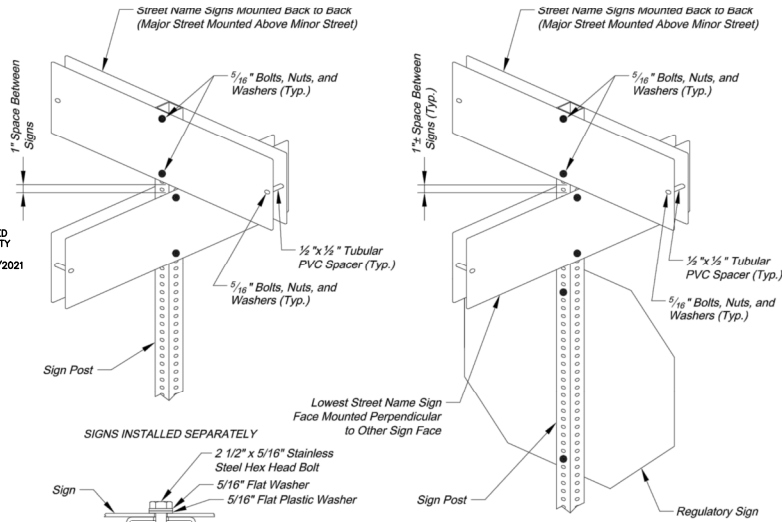
- NOTES:**
- For all street name signs, the legend shall be white and the background shall be green.
 - Arrows shall be added to street name signs where the name of a street changes at an intersection. Street name signs with arrows are to be installed on each side of the intersection to indicate the change in names. Arrows shall be white.
 - The "PRIVATE STREET" tag should be added to the end of street name signs to indicate where a street that is outside the right-of-way intersects a public street. The background for the "PRIVATE STREET" tag shall be yellow.

STREET NAME SIGN FACE DETAILS

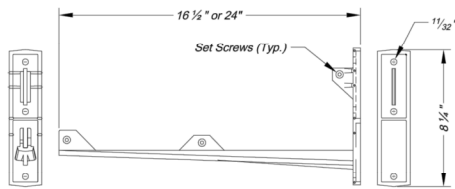


NUMBERED STREET NAME SIGN DETAIL

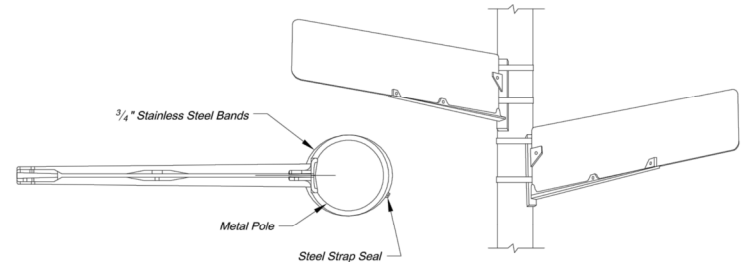
UPDATED QUANTITY TABLE 08/25/2021



SQUARE STEEL POST MOUNTING DETAILS



- NOTES:**
- Wing bracket shall be an L-shaped cantilever of T-beam rigid frame 380-3 aluminum alloy construction.
 - Mount each wing bracket to metal pole using two 3/4" wide stainless steel straps.
 - One wing bracket shall be installed per each sign. Cross brackets are not allowed.



WING BRACKET MOUNTING DETAILS

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LEE'S SUMMIT, MISSOURI 64063
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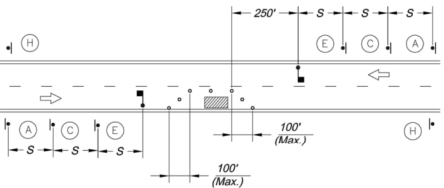
Project: STREET NAME SIGN DETAILS
Sheet Name: STANDARD DRAWING SN-3

Drawn By: AS
Checked By: JW
Date: 05/26/2009
Project#

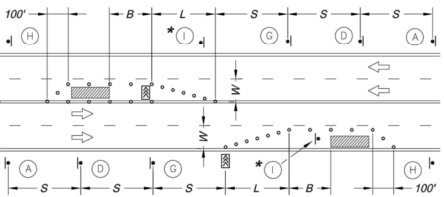
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12/15/2021

SYMBOL LEGEND

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

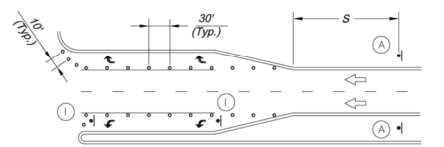


LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET

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



TURN LANE CLOSURE

Speed Limit (mph)	Spacing (Feet)
25	100
30 - 35	250
≥ 40	350

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

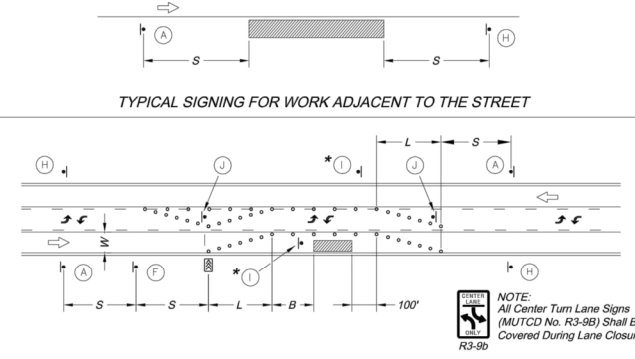
Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

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

SIGN LEGEND

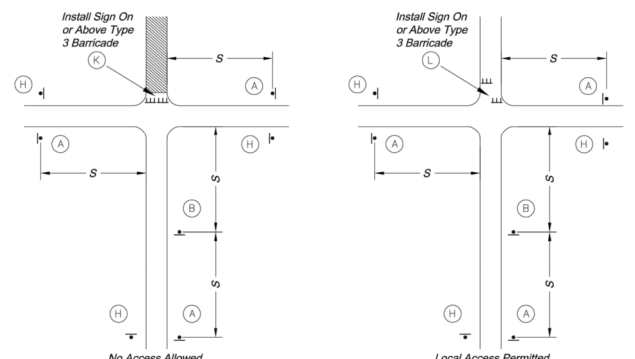
- ROAD WORK AHEAD (W20-1 36" x 36")
- ROAD CLOSED AHEAD (W20-2 36" x 36")
- ONE LANE ROAD AHEAD (W20-4 36" x 36")
- RIGHT LANE CLOSED AHEAD (W20-5R 36" x 36")
- LEFT W20-5L (36" x 36")
- W1-4L (36" x 36")
- W1-4R (36" x 36")
- W4-2L (36" x 36")
- G20-2 (36" x 18")
- R3-2 (24" x 24")
- R4-7a (24" x 30")
- R11-2 (48" x 30")
- R11-4 (60" x 30")

TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



LANE CLOSURE - THREE LANE STREET

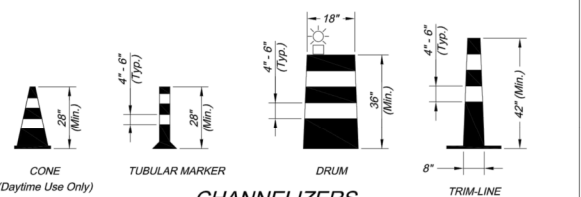
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TYPICAL STREET CLOSURE

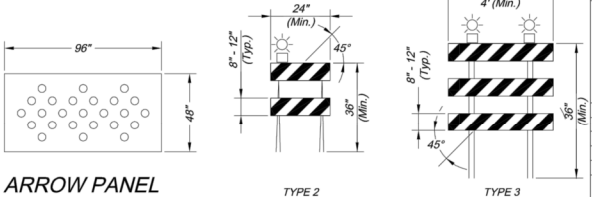
GENERAL NOTES:

- 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 and 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

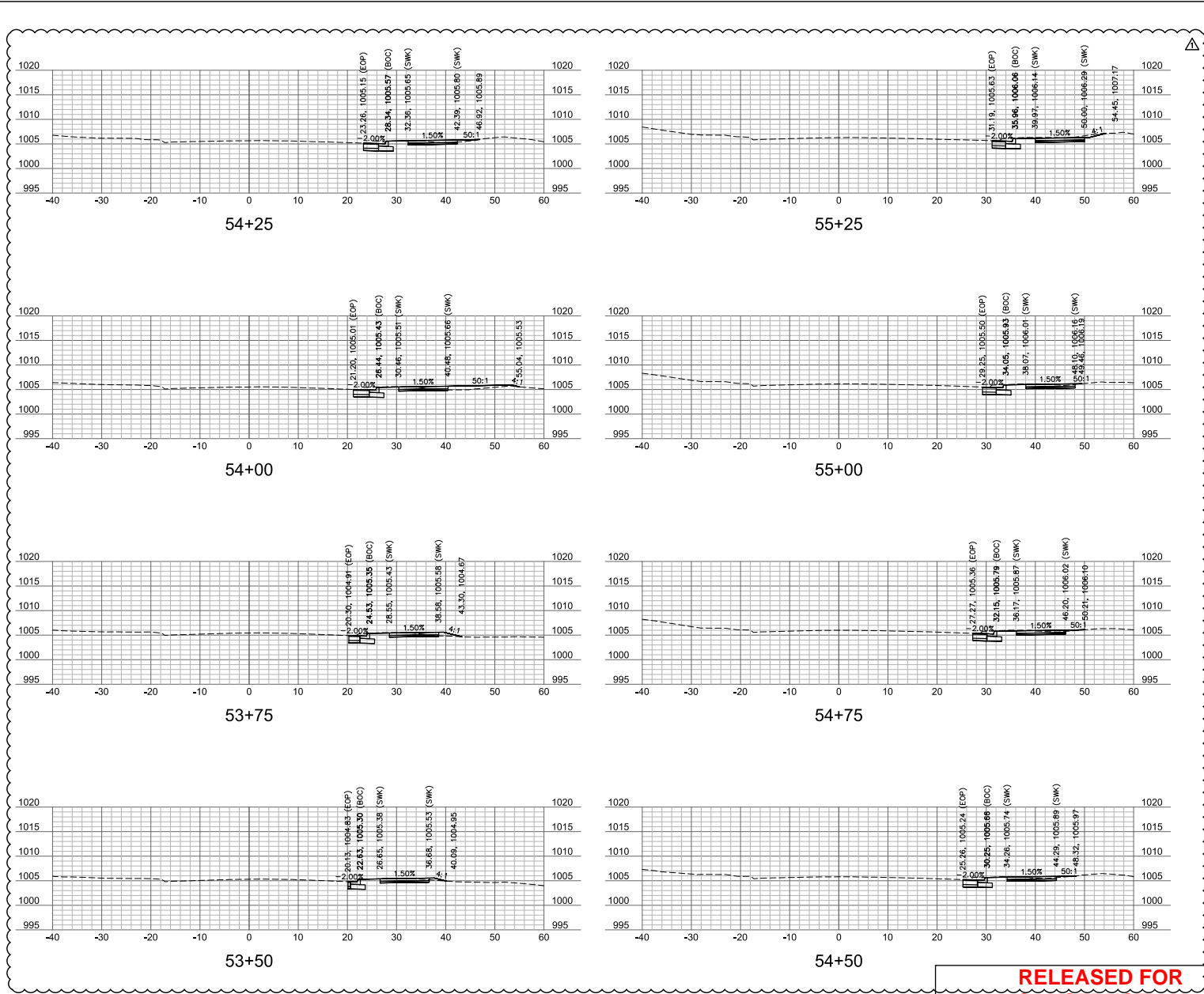
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TRAFFIC CONTROL DETAILS
Sheet Name: STANDARD DRAWING TC-1

Drawn By: J/W
Checked By: MP
Date: 12-10-2008
Project No.: X

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As Noted on Plans Review

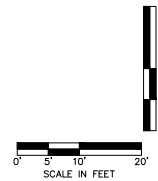
Development Services Department
Lee's Summit, Missouri
12/15/2021

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**Development Services Department
Lee's Summit, Missouri
12/15/2021**





Olsson Engineering, Inc. 2000 South Olathe Blvd., Suite 200
Olathe, MO 64113-1170
TEL: 913.381.1170
FAX: 913.381.1174
www.olsan.com



RYAN B. FLEMING
Professional Engineer
No. PE-200003161
Exp. 12-31-23

REV. NO.	DATE	REVISION DESCRIPTION	BY	MO. NO. PE-200003161
1	08/25/2021	ASF #29	RFL	

REVISIONS

BAILEY ROAD
CROSS SECTIONS

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

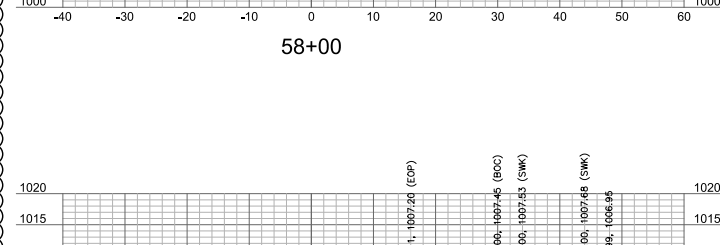
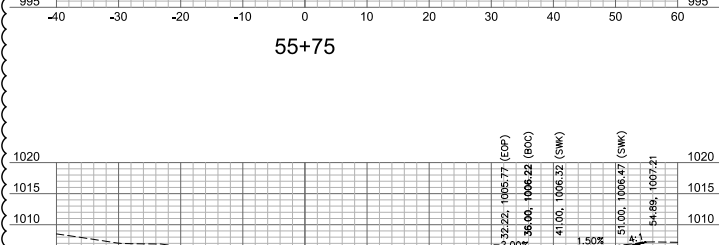
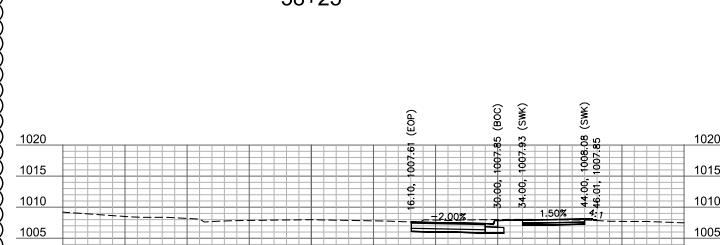
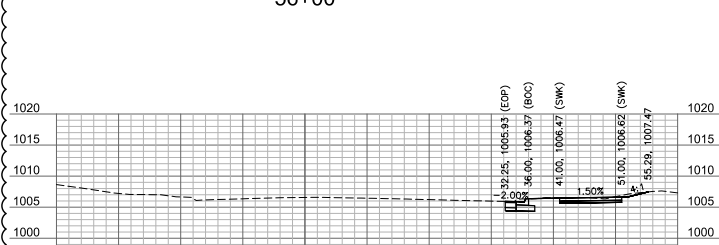
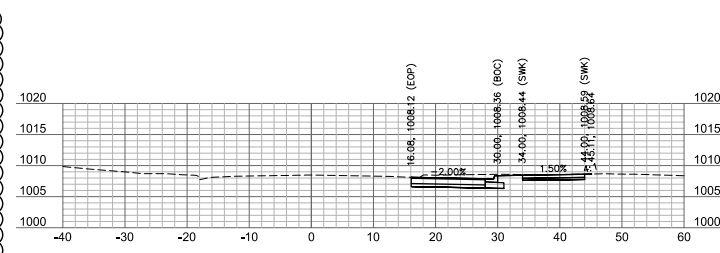
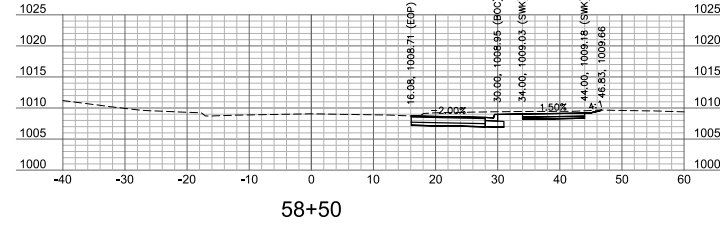
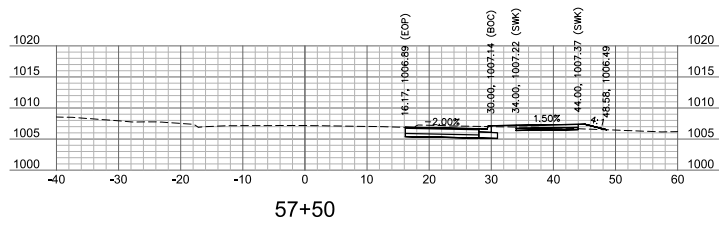
LEE'S SUMMIT, MISSOURI

2021

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 CHECKED BY: RFL
 APPROVED BY: RFL
 G.A.D.C. BY: RFL
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 DATE: 2021-08-25

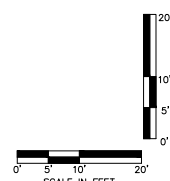
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Lee's Summit, Missouri
12/15/2021





Olsson Engineering, Inc. State Certificate of Authority 001892
 7281 West 133rd Street, Suite 200
 Overland Park, KS 66213-7150
 TEL: 913.381.1170
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 www.olsan.com



RYAN B. FLEMING
 MO. NO. PE-200003161

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

BAILEY ROAD
CROSS SECTIONS

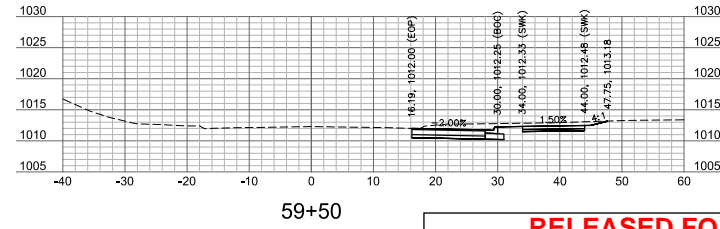
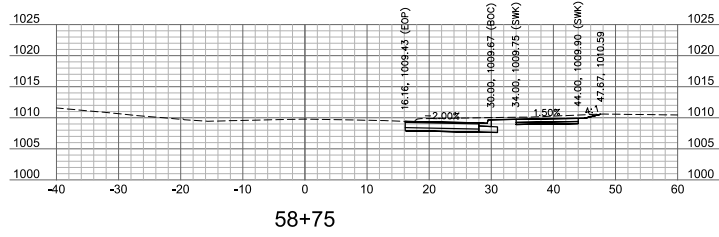
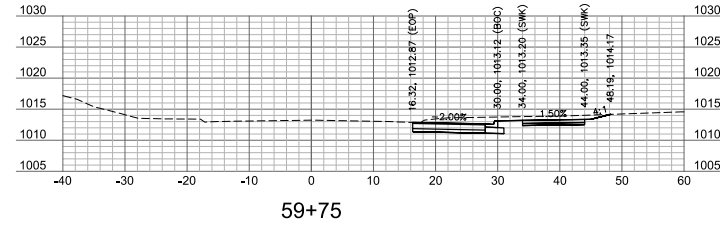
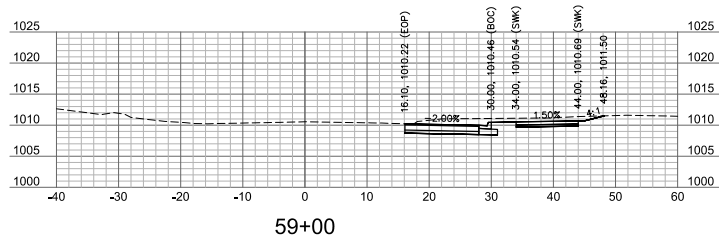
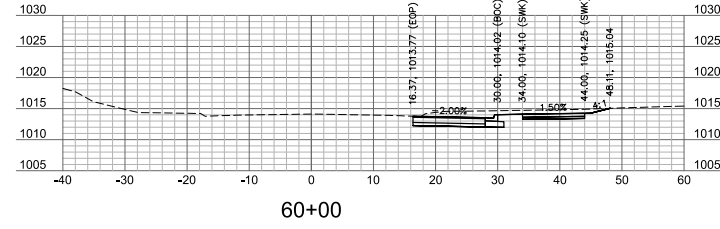
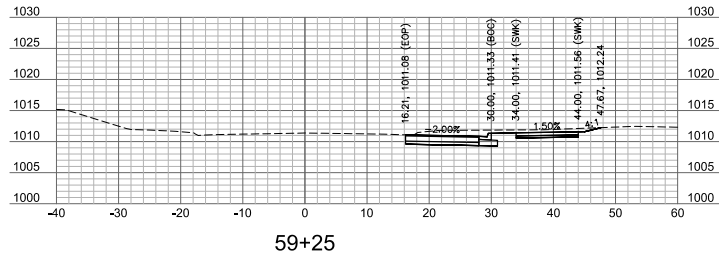
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BAILEY ROAD PUBLIC IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2021

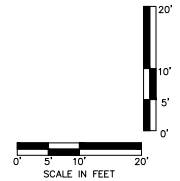
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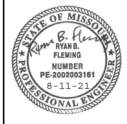
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Development Services Department
Lee's Summit, Missouri
12/15/2021





Olsson Engineering, Inc. 1400 Shawnee, Overland Park, KS 66201
 7201 West 133rd Street, Suite 200 Overland Park, KS 66223-7150
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RYAN B. FLEMING
 MO. NO. PE-2002003161

REV. NO.	DATE	REVISIONS DESCRIPTION

BY: _____

REVISIONS

BAILEY ROAD CROSS SECTIONS

LEE'S SUMMIT MIDDLE SCHOOL #4

BAILEY ROAD PUBLIC IMPROVEMENTS

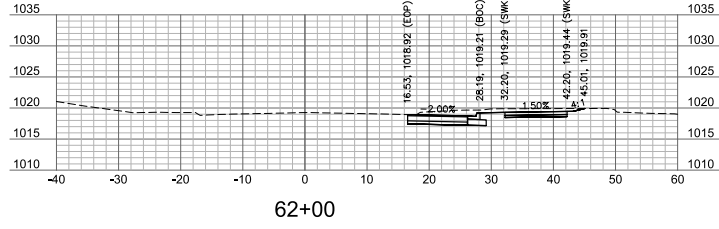
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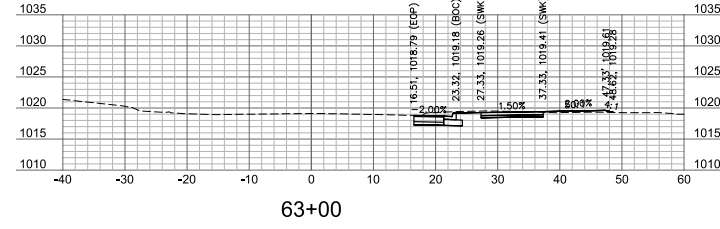
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 APPROVED BY: RBE
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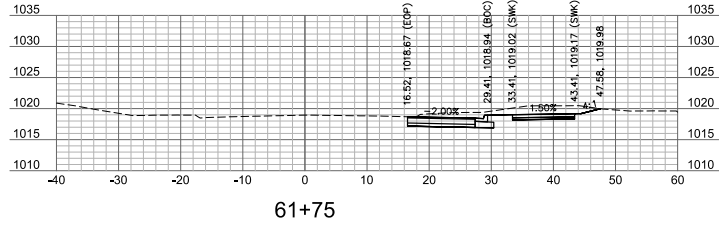
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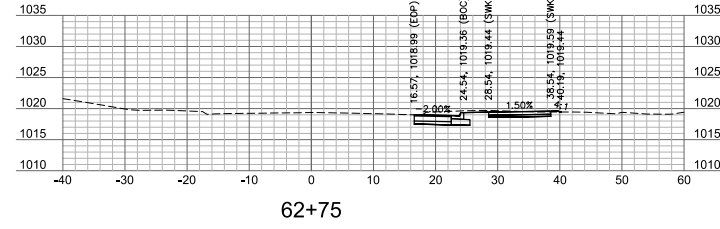
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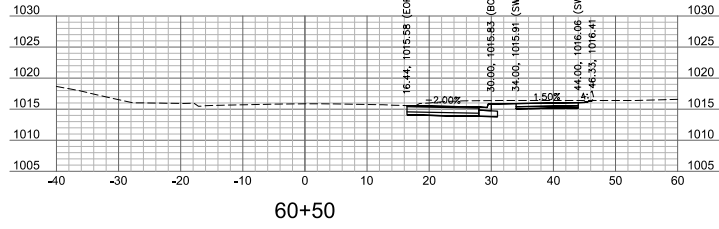
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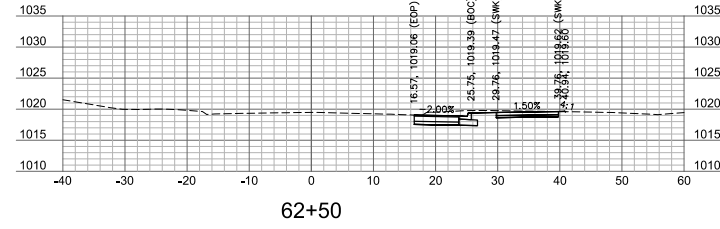
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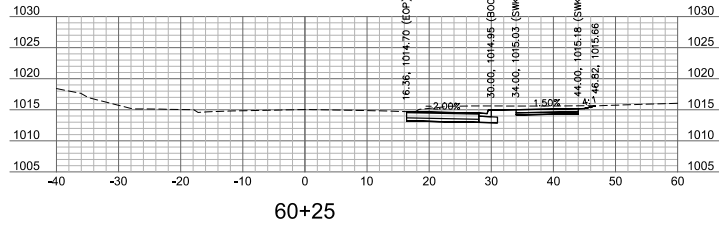
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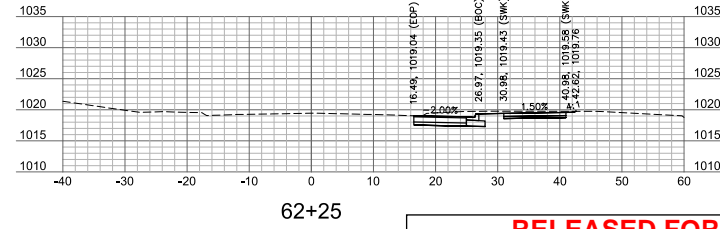
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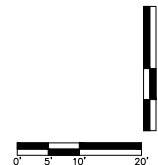
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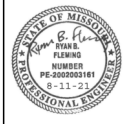


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Development Services Department
Lee's Summit, Missouri
12/15/2021



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RYAN B. FLEMING
Professional Engineer
No. PE-2000003161
Exp. 12-31-23

REV. NO.	REVISION DESCRIPTION	DATE	BY

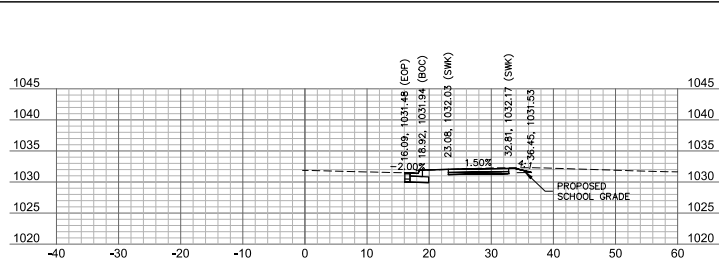
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PROJECT: LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS

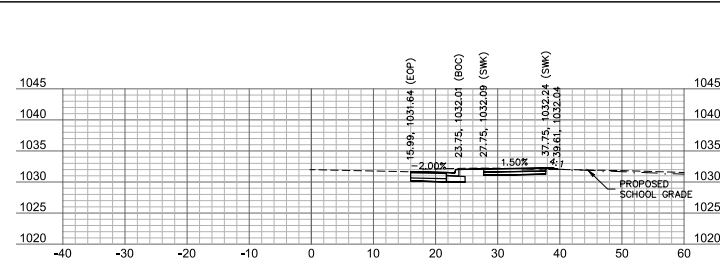
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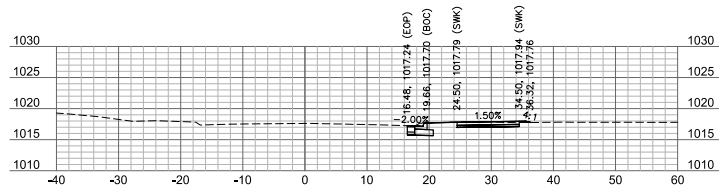
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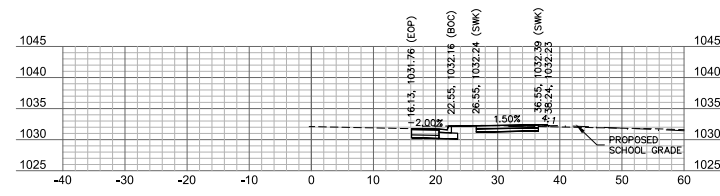
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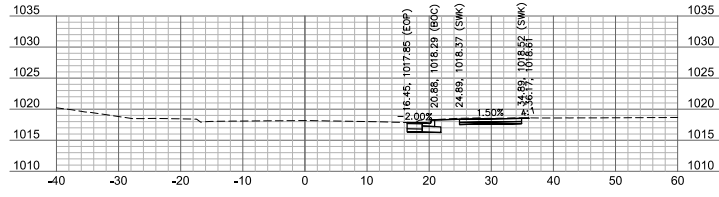
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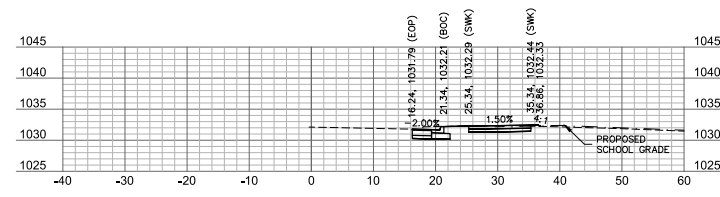
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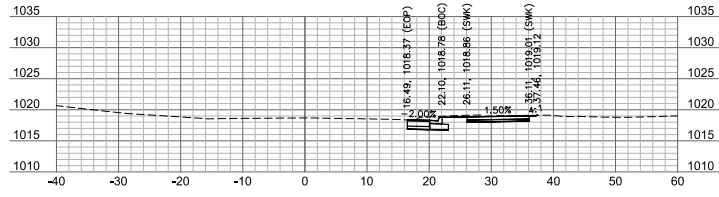
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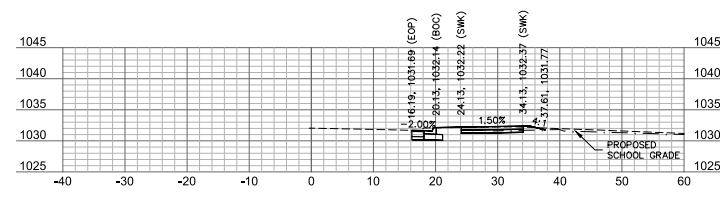
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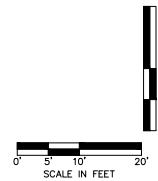


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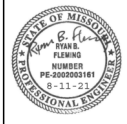


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 Lee's Summit, Missouri
 12/15/2021

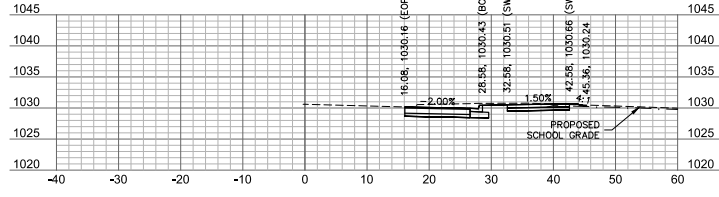


BY: RYAN B. FLEMING	
MO. NO. PE-200003161	
REVISIONS DESCRIPTION	
DATE	
REV. NO.	

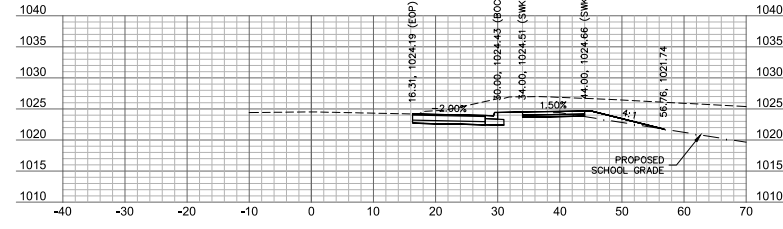
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 LEE'S SUMMIT, MISSOURI
 2021

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QA/QC BY	RFB
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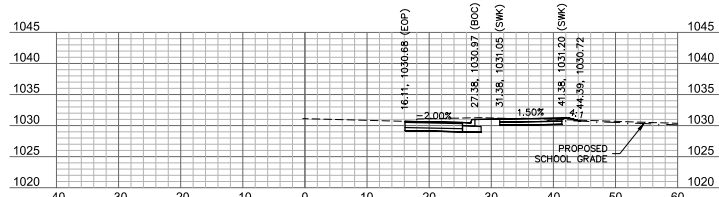
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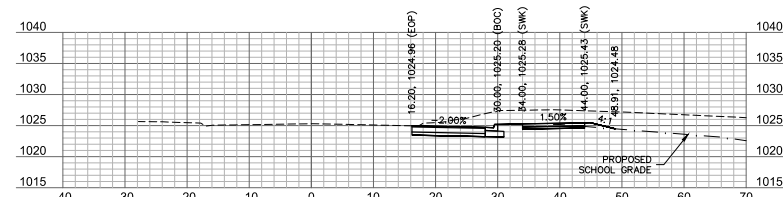
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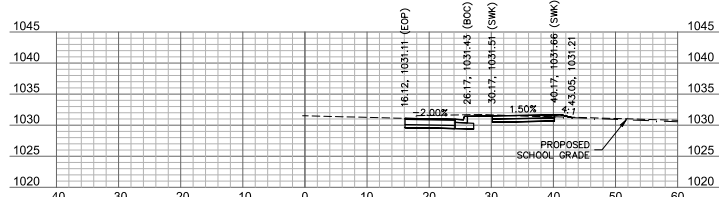
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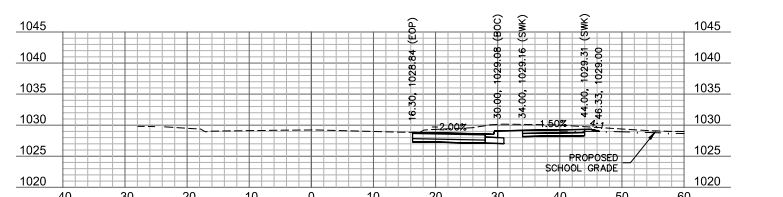
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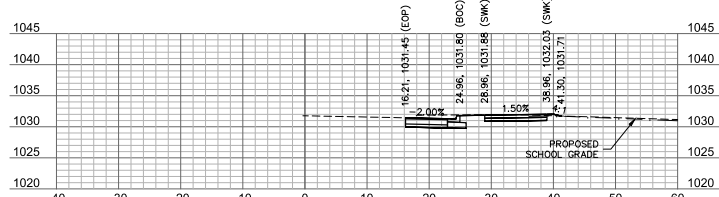
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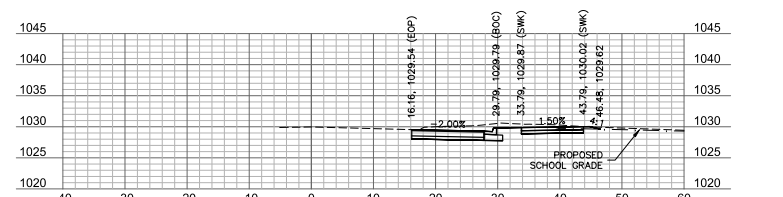
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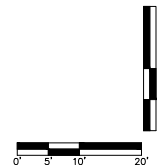


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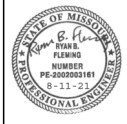
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Development Services Department
Lee's Summit, Missouri
12/15/2021



Olsson Engineering, Inc. State Office: 414 North 9th Street, Suite 200
 7381 West 133rd Street, Suite 200
 Overland Park, KS 66213-4750
 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olson.com



RYAN B. FLEMING
 LICENSE NUMBER
 PE-200003161
 8-1-13

REV. NO.	REVISION DESCRIPTION	DATE

BY: RYAN B. FLEMING
 MO. NO. PE-200003161

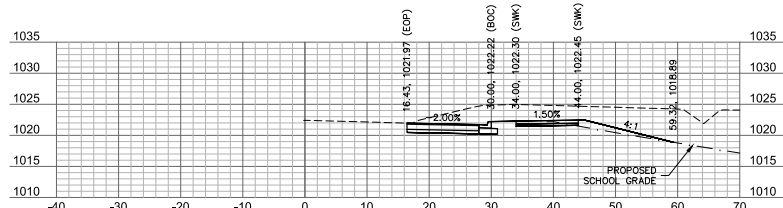
REVISIONS

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 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

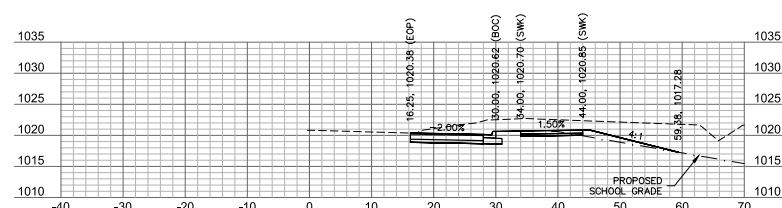
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 DATE: 2021-02-01

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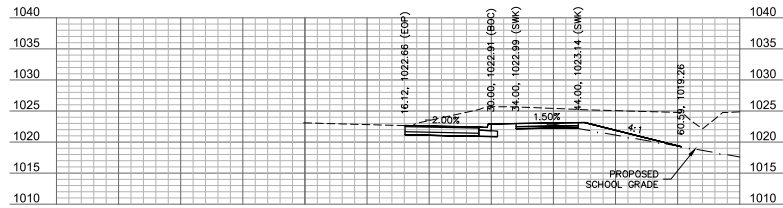
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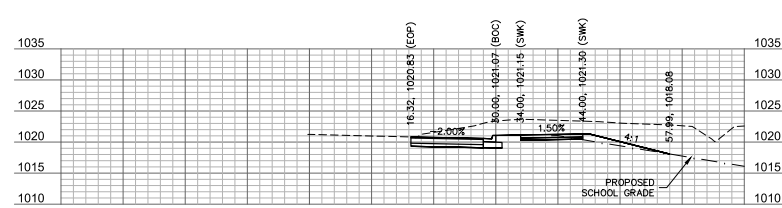
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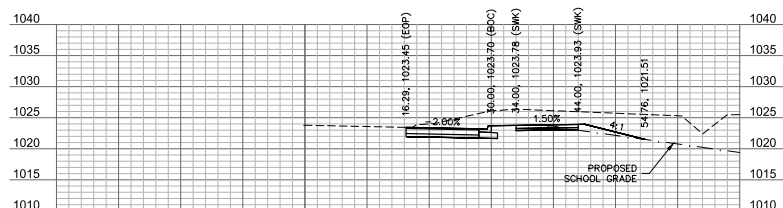
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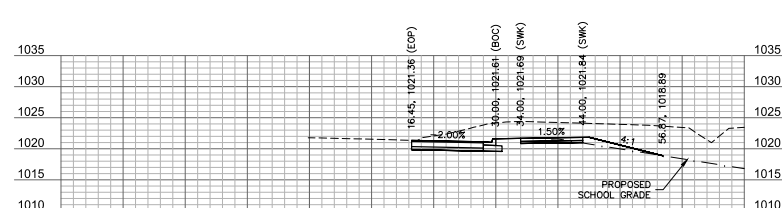
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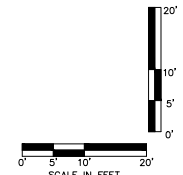


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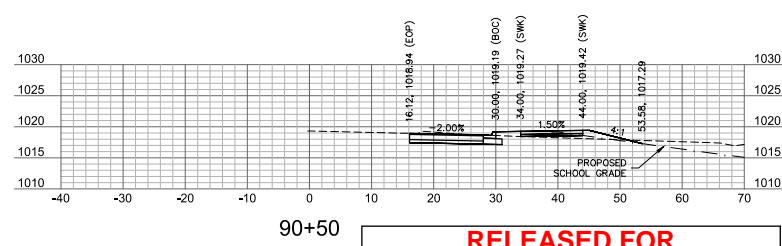
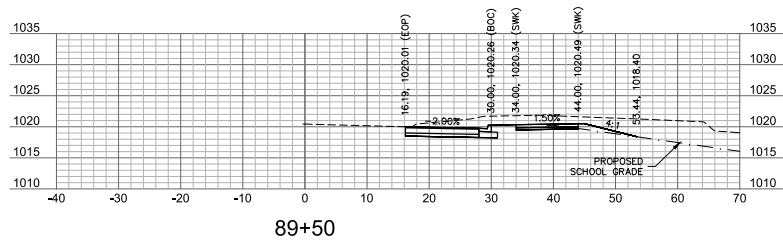
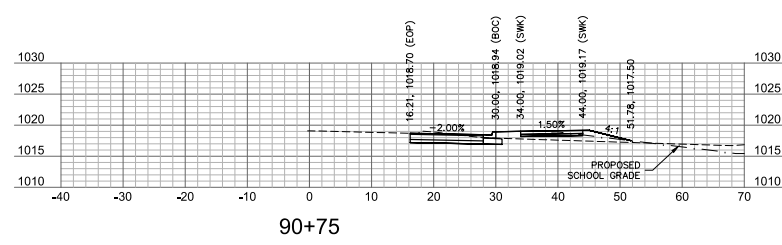
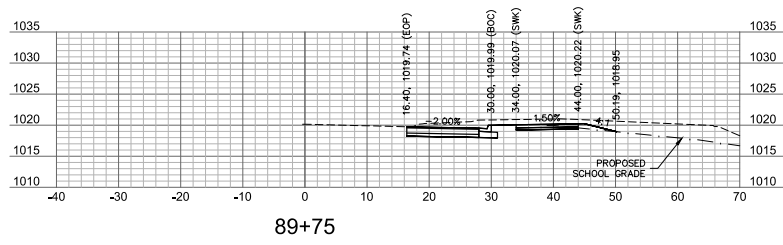
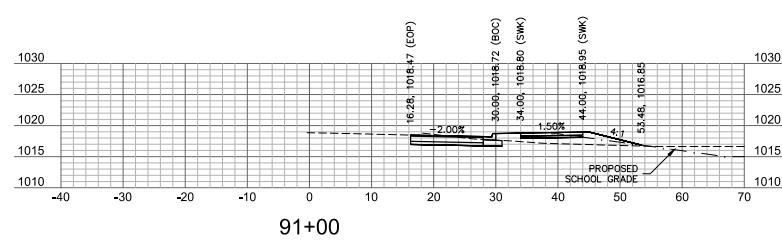
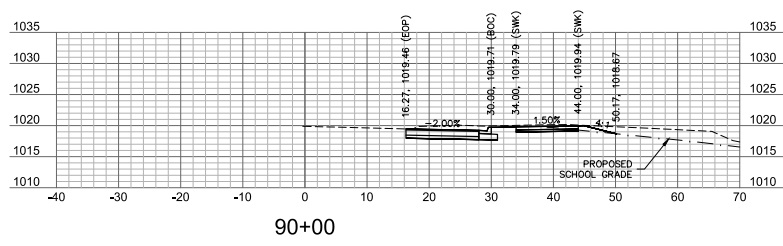
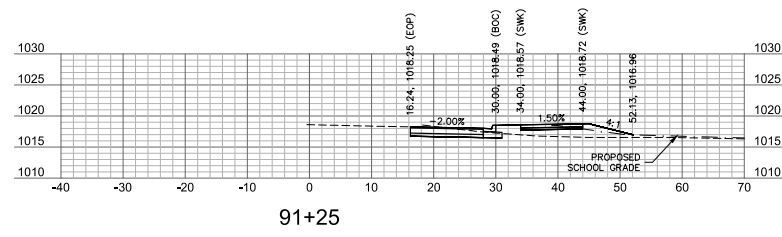
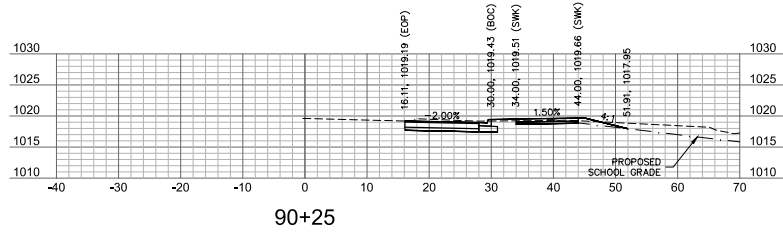


RYAN B. FLEMING	
MO. NO. PE-2002003161	
BY	
REVISIONS DESCRIPTION	
DATE	
REV. NO.	

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CROSS SECTIONS
LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS
LEE'S SUMMIT, MISSOURI
2021

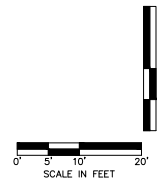
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12/15/2021





Olsson Engineering, Inc. 1400 Shawnee Mission Parkway, Suite 200
 7281 West 133rd Street, Suite 200
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 TEL: 913.381.1170
 FAX: 913.381.1174
 www.olsan.com



RYAN B. FLEMING
 MO. NO. PE-2002003161

REV. NO.	REVISION DESCRIPTION	DATE

BY: _____

DATE: _____

REVISIONS

BAILEY ROAD
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BAILEY ROAD PUBLIC IMPROVEMENTS

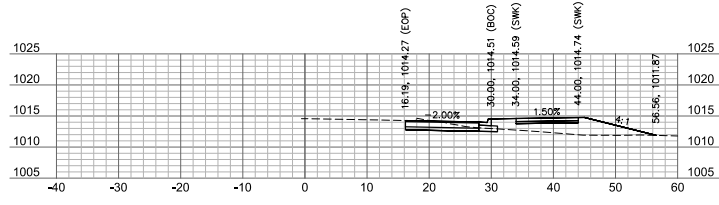
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2021

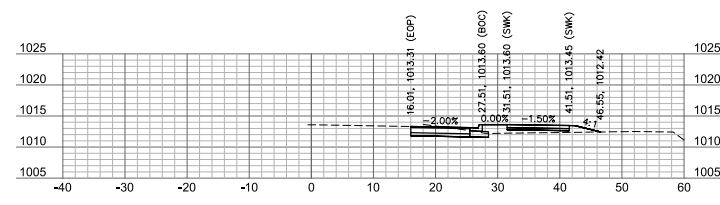
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97 OF 101

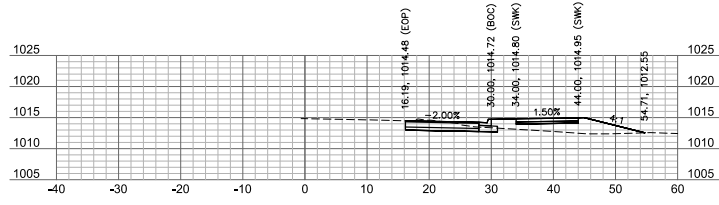
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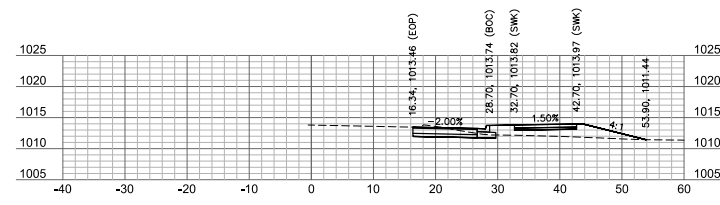
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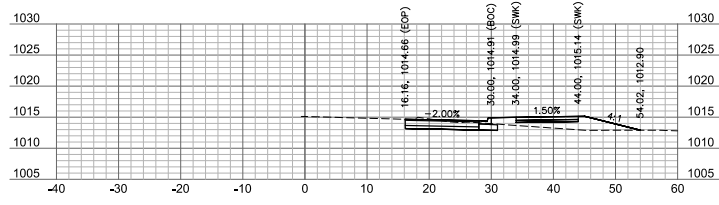
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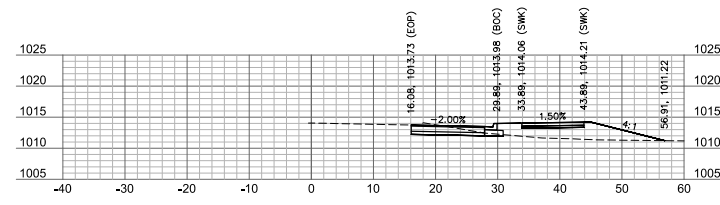
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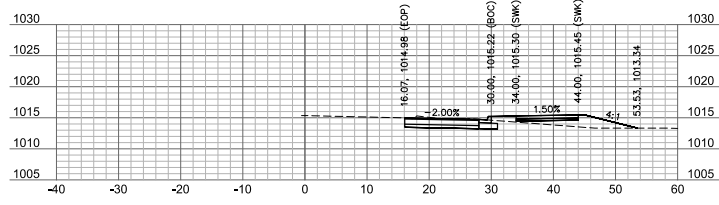
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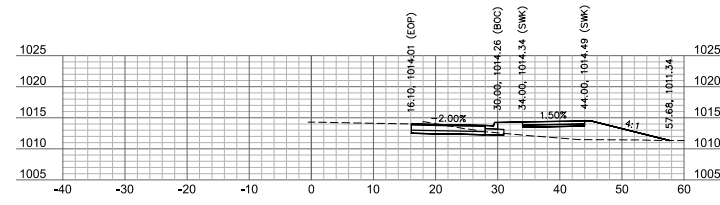
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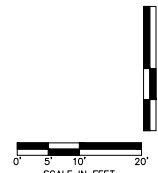
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95+50

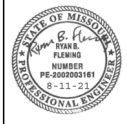


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**Development Services Department
Lee's Summit, Missouri
12/15/2021**



Olsson Engineering, Inc. State Office: 4141 Main St., Suite 100
 7381 West 133rd Street, Suite 200
 Overland Park, KS 66213-4750
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 FAX: 913.381.1174
 www.olsan.com



RYAN B. FLEMING
 No. PE-2002003161
 8-11-23

REV. NO.	REVISION DESCRIPTION	DATE

MO. NO. PE-2002003161

BY: _____

**BAILEY ROAD
CROSS SECTIONS**

**LEE'S SUMMIT MIDDLE SCHOOL #4
BAILEY ROAD PUBLIC IMPROVEMENTS**

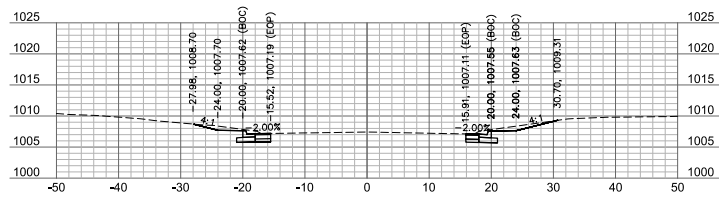
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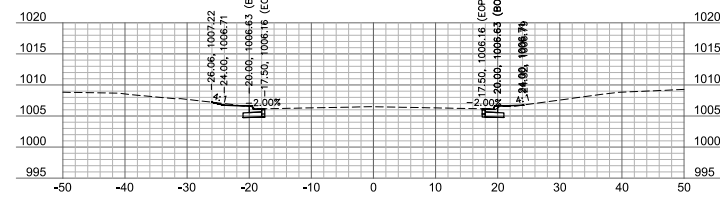
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99 OF 101**

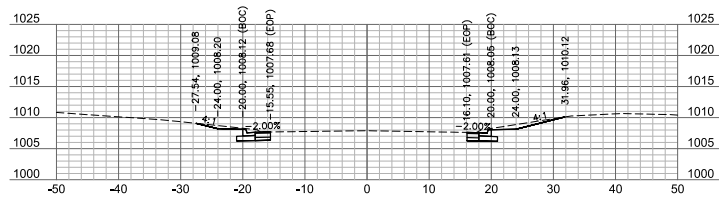
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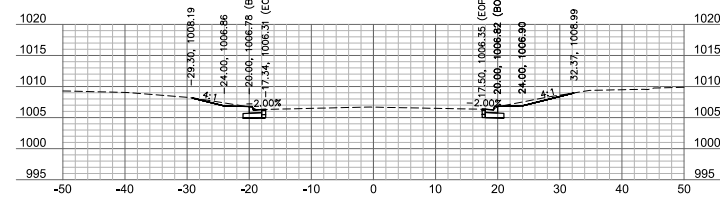
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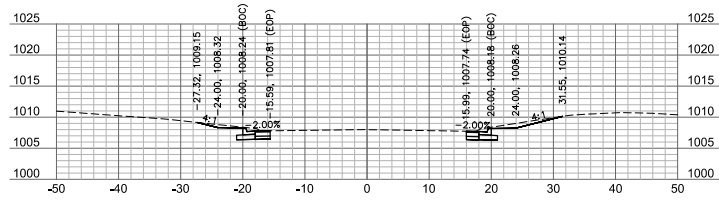
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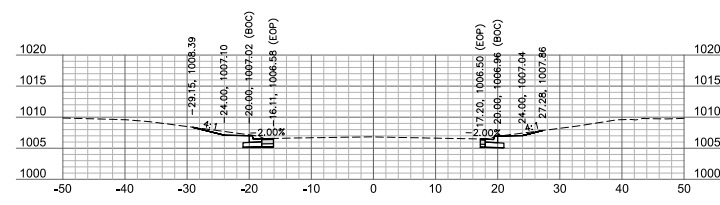
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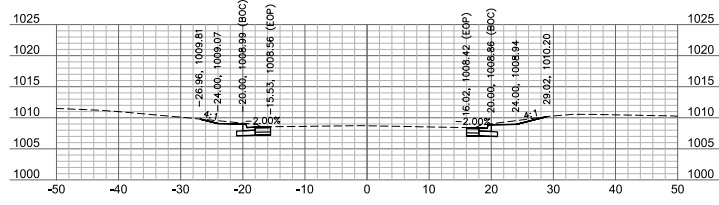
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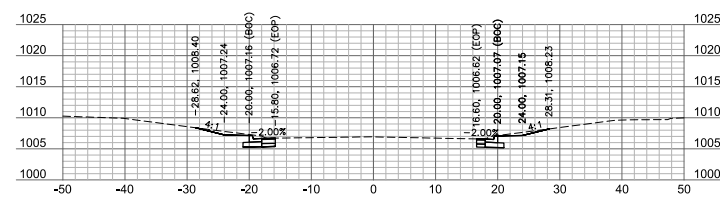
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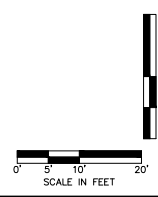


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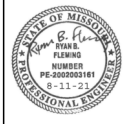
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RYAN B. FLEMING
 LICENSE NUMBER
 PE-2002003161
 8-1-13

REV. NO.	DATE	REVISIONS DESCRIPTION

BY: RYAN B. FLEMING
 MO. NO. PE-2002003161

SE CENTURY DRIVE
 CROSS SECTIONS
 LEE'S SUMMIT MIDDLE SCHOOL #4
 BAILEY ROAD PUBLIC IMPROVEMENTS
 LEE'S SUMMIT, MISSOURI

C.O.A. NO. 001582
 DRAWN BY: MSW
 CHECKED BY: RFB
 APPROVED BY: RFB
 G.A.D.C. BY: RFB
 PROJECT NO. 0860010
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