Department of Public Works
Engineering Division
602 S Main Street
Joplin, Missouri 64801
417-624-0820

May 31, 2024

CITY OF JOPLIN
Zora Street and Duquesne Road Intersection Improvements

Addendum No. 4

Contract Bidders:

Enclosed is Addendum No. 4 for the above referenced project. Please execute, attach, and submit this Addendum No. 4 with your bid.

City of Joplin

Rob Beachner,
Project Manager

The undersigned hereby acknowledges receipt of this addendum, which by this reference is hereby incorporated in and becomes a part of the Contract Documents for the above referenced project.

_____

Company Name

_____

Signature

_____

Printed Name, Title

May 31, 2024

ADDENDUM NO. 4

PROJECT:	Zora Street & Duquesne Road Intersection Improvements Joplin, Missouri
BID OPENING:	10:00 a.m., June 06, 2024 602 S Main St. 4th Floor Joplin, Missouri

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This addendum forms a part of the Bid Documents for the project described above. The original Bid Documents and any prior addenda remain in full force and effect except as modified by the following, which shall take precedence over any contrary provision in the prior documents. The following clarifications are made:

Plan Sheets

The following plan sheets have been updated and included with this addendum.

1. Sheet 7 – Summary of Quantities
    a. Pay Item 16: Name changed to 12" aggregate base and quantity updated accordingly.
    b. Pay Item 89: Name updated to specify 30x48 Double Lid, Tier 22 Pull Box.
2. Sheet 8 – Summary of Quantities
    a. Updated Type 5 Aggregate Base depth to 12" under center island.
3. Sheet 9 – Summary of Quantities
    a. Clarify removal existing structures, includes utility removals to be covered by others.
4. Sheet 16 – Typical Sections
    a. Updated Typical Section to clearly call out Splitter Island is pinned on to 10" Concrete base over 8" of Type 5 Aggregate Base.
5. Sheet 37 – Standard Details
    a. Modified Type F Curb detail updated to show 12" of aggregate base under center concrete island.
6. Sheet 39A – Fiber Optics Details
    a. Updated to specify 30x48 Double Lid, Tier 22 Pull Box

Bid Form

1. The attached bid form has been included to incorporate the changes mentioned above.

In order to have a valid bid proposal, this addendum must be acknowledged and returned with your bid proposal.

If you have any questions concerning this addendum, please feel free to contact Jonathan Peitz at (417) 885-1763.



Jonathan Peitz, P.E.
Project Engineer
Olsson

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
1	Mobilization	LS	1		
2	Contractor Furnished Construction Staking and Surveying	LS	1		
3	Clearing & Grubbing / Tree & Brush Removal	LS	1		
4	Demolition & Removal	LS	1		
5	Building Demolition	LS	1		
6	Seeding, Fertilizing and Mulch	SY	5047		
7	Silt Fence	LF	971		
8	Curb / Inlet Protection	EA	9		
9	Alternate Ditch Check	LF	126		
10	Unclassified Excavation	CY	2600		
11	Embankment	CY	1250		
12	Imported Fill	CY	100		
13	Removal of Unsuitable Material	CY	100		
14	Backfill of Unsuitable Material	CY	100		
15	8" MoDOT Type 5 Aggregate Base	SY	6921		
16	12" MoDOT Type 5 Aggregate Base	SY	531		
17	Asphaltic Concrete Surface (2") (MoDOT BP-1)	TONS	132		
18	Asphaltic Concrete Base (8") (MoDOT Bituminous Base)	TONS	530		
19	Asphalt Tack	GAL	188		
20	Asphalt Primer	GAL	1177		
21	10" Concrete Pavement (Roadway)	SY	4368		
22	10" Concrete Pavement (Truck Apron) (Red Tint)	SY	497		
23	6" Concrete Splitter Island (Red Tint) (Pinned On)	SY	348		
24	6" Concrete Center Island	SY	531		
25	Standard Curb & Gutter	LF	561		

26	1' MoDOT Type A Integral Barrier Curb	LF	2386		
27	1' Truck Apron Curb	LF	352		
28	1' Upright Curb (MoDOT Modified Type F) (Roundabout Center)	LF	251		
29	Commercial Driveway Construction (8" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base)	SY	931		
30	Residential Driveway Construction (6" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base)	SY	77		
31	6" MoDOT Type 1 Aggregate Surface	SY	237		
32	Type C Inlet 5'x3' I.D.	EA	3		
33	Type C Inlet 5'x4' I.D.	EA	2		
34	Type C Inlet 5'x5' I.D.	EA	1		
35	Area Inlet 3'x3' I.D.	EA	1		
36	Area Inlet 4'x4' I.D.	EA	2		
37	15" Class III RCP (including trenching, bedding, backfill, gaskets, and concrete collars)	LF	167		
38	18" Class III RCP (including trenching, bedding, backfill, gaskets, and concrete collars)	LF	79		
39	24" Class III RCP (including trenching, bedding, backfill, gaskets, and concrete collars)	LF	166		
40	30" Class III RCP (including trenching, bedding, backfill, gaskets, and concrete collars)	LF	532		
41	15" RCP FES (including trenching, bedding, backfill, gaskets, and concrete collars)	EA	2		
42	30" RCP FES (including trenching, bedding, backfill, gaskets, and concrete collars)	EA	1		
43	Concrete Ditch Liner	SY	38		
44	Rock Blanket	SY	12		
45	Removal & Resetting Existing Signs	LS	1		
46	Permanent Signage W2-6	SF	36		
47	Permanent Signage W13-1P	SF	9		
48	Permanent Signage OM1-3	SF	9		
49	Permanent Signage R1-2	SF	64		
50	Permanent Signage R6-4A	SF	32		
51	Permanent Signage D3-1	SF	15		

52	Permanent Signage Post	EA	20		
53	Changeable Message Sign (Contractor Furnished)	EA	5		
54	Traffic Control Signage W20-1	SF	18		
55	Traffic Control Signage W20-3	SF	36		
56	Traffic Control Signage R11-2	SF	50		
57	Traffic Control Signage R11-4	SF	40		
58	Traffic Control Signage G20-2	SF	18		
59	Traffic Control Type III Barricade	EA	8		
60	Traffic Control Temporary Sign Post	EA	12		
61	Pavement Marking Removal	LF	540		
62	4" SolidYellow Lane Line	LF	4093		
63	4" Broken Yellow Lane Line	LF	100		
64	4" Solid White Edge Line	LF	871		
65	12" Solid White Pavement Marking	LF	90		
66	12" Yellow Pavement Marking (Includes Splitter island face and top striping)	LF	754		
67	12" Broken White Pavement Marking	LF	115		
68	24" Yellow Pavment Marking ((Diagonal Lines)	LF	115		
69	18"x12" Solid White Yield Marking	EA	25		
70	Truncated Domes	SF	84		
71	27.5' Aluminum Pole, 30' Mounting Height	EA	9		
72	Street Light Foundation	EA	9		
73	Cobra Head Luminaire (240V), 140 Watt Led, Type III	EA	9		
74	Bracked Arm, 8' Length W/ 2'6" Rise, Single Arm	EA	9		
75	Power Pedistal-Pad Mounted, 4-Circuit	EA	1		
76	Pedestal-Pad Foundation	EA	1		
77	Type II Junction Box	EA	6		

78	2" Schedule 40 PVC Conduit (Lighting)	LF	1010		
79	3" Schedule 40 PVC Conduit (Controller to Transformer)	LF	150		
80	3-1c #1/0 RHH/RHW/USE CU (Power)	LF	200		
81	3-1c #4 USE CU w/1-1c#6 Bare CU (Distribution)	LF	1070		
82	1-2c #14 THHN (Pole & Bracket)	LF	378		
83	Fused Connector Kit w/8 Amp Fuse	EA	18		
84	Unfused Connector	EA	9		
85	Multitap Connector	EA	27		
86	Ground Rod (1/2"X10')	EA	10		
87	Breakaway Pole Device	EA	9		
88	2" SDR 13.5 HDPE Conduit w/ Pull String (Fiber Optic)	LF	2480		
89	Type IV 30X48 Double Lid, Tier 22 Pull Box (Fiber Optic)	EA	4		
90	1-10C Tracer Wire	LF	620		

BASE BID TOTAL = _____

RECAPITULATION OF QUANTITIES - BASE BID

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	GOVERNING TECHNICAL SPECIFICATION
1	Mobilization	LS	1	JSP-0400-03
2	Contractor Furnished Construction Staking and Surveying	LS	1	JSP-0400-04
3	Clearing & Grubbing / Tree & Brush Removal	LS	1	JSP-1100-01
4	Demolition & Removal	LS	1	JSP-1100-02
5	Building Demolition	LS	1	JSP-1100-002
6	Seeding, Fertilizing and Mulch	SY	5047	City 5100
7	Silt Fence	LF	971	MoDOT 806
8	Curb / Inlet Protection	EA	9	MoDOT 806
9	Alternate Ditch Check	LF	126	MoDOT 806
10	Unclassified Excavation	CY	2600	City 1200
11	Embankment	CY	1250	JSP-1200-01
12	Imported Fill	CY	100	JSP-1200-01
13	Removal of Unsuitable Material	CY	100	City 1200
14	Backfill of Unsuitable Material	CY	100	City 1200
15	8" MoDOT Type 5 Aggregate Base	SY	6921	JSP-1400-01
16	12" MoDOT Type 5 Aggregate Base	SY	531	JSP-1400-01
17	Asphaltic Concrete Surface (2") (MoDOT BP-1)	TONS	132	City 2200
18	Asphaltic Concrete Base (8") (MoDOT Bituminous Base)	TONS	530	City 2200
19	Asphalt Tack	GAL	188	City 2200
20	Asphalt Primer	GAL	1177	City 2200
21	10" Concrete Pavement (Roadway)	SY	4368	City 3100
22	10" Concrete Pavement (Truck Apron) (Red Tint)	SY	497	JSP-3100-01
23	6" Concrete Splitter Island (Red Tint) (Pinned On)	SY	348	JSP-3100-02
24	6" Concrete Center Island	SY	531	City 3100
25	Standard Curb & Gutter	LF	561	City 3209
26	1' MoDOT Type A Integral Barrier Curb	LF	2386	JSP-3200-01
27	1' Truck Apron Curb	LF	352	JSP-3200-01
28	1' Upright Curb (MoDOT Modified Type F) (Roundabout Center)	LF	251	JSP-3200-01
29	Commercial Driveway Construction (8" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base)	SY	931	City 3400
30	Residential Driveway Construction (6" Concrete) (Incl. 4" MoDOT Type 5 Agg. Base)	SY	77	City 3400
31	6" MoDOT Type 1 Aggregate Surface	SY	237	JSP-3400-01
32	Type C Inlet 5'x3' I.D.	EA	3	City 4400
33	Type C Inlet 5'x4' I.D.	EA	2	City 4400
34	Type C Inlet 5'x5' I.D.	EA	1	City 4400
35	Area Inlet 3'x3' I.D.	EA	1	City 4400
36	Area Inlet 4'x4' I.D.	EA	2	City 4400
37	15" Class III RCP (including trenching, bedding, backfill, gaskets, and concrete collars)	LF	167	City 4200
38	18" Class III RCP (including trenching, bedding, backfill, gaskets, and concrete collars)	LF	79	City 4200
39	24" Class III RCP (including trenching, bedding, backfill, gaskets, and concrete collars)	LF	166	City 4200
40	30" Class III RCP (including trenching, bedding, backfill, gaskets, and concrete collars)	LF	532	City 4200
41	15" RCP FES (including trenching, bedding, backfill, gaskets, and concrete collars)	EA	2	City 4200
42	30" RCP FES (including trenching, bedding, backfill, gaskets, and concrete collars)	EA	1	City 4200
43	Concrete Ditch Liner	SY	38	JSP-4200-01
44	Rock Blanket	SY	12	City 2303

45	Removal & Resetting Existing Signs	LS	1	JSP-2300-03
46	Permanent Signage W2-6	SF	36	JSP-2300-03
47	Permanent Signage W13-1P	SF	9	JSP-2300-03
48	Permanent Signage OM1-3	SF	9	JSP-2300-03
49	Permanent Signage R1-2	SF	64	JSP-2300-03
50	Permanent Signage R6-4A	SF	32	JSP-2300-03
51	Permanent Signage D3-1	SF	15	JSP-2300-03
52	Permanent Signage Post	EA	20	JSP-2300-03
53	Changeable Message Sign (Contractor Furnished)	EA	5	JSP-6700-01
54	Traffic Control Signage W20-1	SF	18	JSP-6700-01
55	Traffic Control Signage W20-3	SF	36	JSP-6700-01
56	Traffic Control Signage R11-2	SF	50	JSP-6700-01
57	Traffic Control Signage R11-4	SF	40	JSP-6700-01
58	Traffic Control Signage G20-2	SF	18	JSP-6700-01
59	Traffic Control Type III Barricade	EA	8	JSP-6700-01
60	Traffic Control Temporary Sign Post	EA	12	JSP-6700-01
61	Pavement Marking Removal	LF	540	City 2306
62	4" SolidYellow Lane Line	LF	4093	City 2306
63	4" Broken Yellow Lane Line	LF	100	City 2306
64	4" Solid White Edge Line	LF	871	City 2306
65	12" Solid White Pavement Marking	LF	90	City 2306
66	12" Yellow Pavement Marking (Includes Splitter island face and top striping)	LF	754	City 2306
67	12" Broken White Pavement Marking	LF	115	City 2306
68	24" Yellow Pavment Marking ((Diagonal Lines)	LF	115	City 2306
69	18"x12" Solid White Yield Marking	EA	25	MoDOT 620
70	Truncated Domes	SF	84	City 3300.3.7
71	27.5' Aluminum Pole, 30' Mounting Height	EA	9	City 9401.0
72	Street Light Foundation	EA	9	City 9100.8
73	Cobra Head Luminaire (240V), 140 Watt Led, Type III	EA	9	City 9400.1
74	Bracked Arm, 8' Length W/ 2'6" Rise, Single Arm	EA	9	City 9401.0
75	Power Pedistal-Pad Mounted, 4-Circuit	EA	1	City 9401.2
76	Pedestal-Pad Foundation	EA	1	City 9401.2
77	Type II Junction Box	EA	6	City 9401.2
78	2" Schedule 40 PVC Conduit (Lighting)	LF	1010	City 9100.6
79	3" Schedule 40 PVC Conduit (Controller to Transformer)	LF	150	City 9100.6
80	3-1c #1/0 RHH/RHW/USE CU (Power)	LF	200	City 9100.7
81	3-1c #4 USE CU w/1-1c#6 Bare CU (Distribution)	LF	1070	City 9100.7
82	1-2c #14 THHN (Pole & Bracket)	LF	378	City 9100.7
83	Fused Connector Kit w/8 Amp Fuse	EA	18	City 9100.7
84	Unfused Connector	EA	9	City 9100.7
85	Multitap Connector	EA	27	City 9100.7
86	Ground Rod (1/2"X10')	EA	10	City 9100.9
87	Breakaway Pole Device	EA	9	City 9401.6
88	2" SDR 13.5 HDPE Conduit w/ Pull String (Fiber Optic)	LF	2480	City 9100.6
89	Type IV 30X48 Double Lid, Tier 22 Pull Box (Fiber Optic)	EA	4	City 9100.5
90	1-1c 10 Tracer Wire	LF	620	City 9100.7

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702 S. Main Street
Joplin, MO 64801
TEL 417.781.0643
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STATE OF MISSOURI
JONATHAN W. PEITZ
NUMBER PE-2017019023
PROFESSIONAL ENGINEER

JONATHAN W. PEITZ-CIVIL ENGINEER
MO# PE-2017019023

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	5/15/2024	ADDENDUM #1 - SHEET ADDED	SMK
2	5/30/2024	ADDENDUM #3 - FUTURE FIBER OPTIC CONDUIT	SMK
3	5/31/2024	ADDENDUM #4 - REVISED QUANTITIES	

REVISIONS

SUMMARY OF QUANTITIES

ZORA STREET IMPROVEMENTS - PHASE 1
CITY OF JOPLIN

JOPLIN, MISSOURI

2024

drawn by: ZLL/SMK/CTK
checked by: CAD
approved by: JWP
QA/QC by: ENG
project no.: 017-0642-D
drawing no.: C_QTY01_D170642
date: 4/26/2024

SHEET
7 of 88

DWG: F:\2017\0501-1000\017-0642-D\40-Design\AutoCAD\Final Plans\Sheets\GNCV\C_QTY01_D170642.dwg USER: skendall
DATE: May 31, 2024 11:07am XREFS: C_PTBLK_D170642

ASPHALT SURFACING QUANTITIES								
STATION TO STATION		LOCATION	ASPHALTIC CONCRETE SURFACE (2") (TONS)*	ASPHALTIC CONCRETE BASE COURSE (8") (TONS)*	MODOT TYPE 5 AGGREGATE BASE (8") (SQ. YD.)	ASPHALT TACK COAT (GAL.)**	ASPHALT PRIMER (GAL.)**	MODOT TYPE 5 AGGREGATE BASE (8") (SQ. YD.)
102+84.27	105+14.21	ZORA WEST	83.1	332.3	738.3	118.1	59.1	738.3
110+82.19	112+16.03	ZORA EAST	49.3	197.2	438.2	70.1	35.1	438.2
		TOTALS	132	530	1177	188	94	1177

* COMPUTED AT A RATE OF 150 LBS./CU.FT.
** COMPUTED AT A RATE OF 0.08 GAL/SY

CONCRETE SURFACING QUANTITIES								
STATION TO STATION		STREET	LOCATION	CONCRETE ISLAND (6") (SQ. YD.)	CONCRETE PAVEMENT (10") (SQ. YD.)	MODOT TYPE 5 AGGREGATE BASE (8") (SQ. YD.)	MODOT TYPE 5 AGGREGATE BASE (12") (SQ. YD.)	NOTES
105+14.21	110+82.19	ZORA STREET	ROUNDABOUT ROADWAY		4367.6			205+50 TO 211+33.61 (DUQUESNE RD)
106+95	108+05.02	ZORA STREET	TRUCK APRON		497.4			
105+93.18	109+05.36	ZORA STREET	SPLITTER ISLANDS	348				205+93.71 TO 209+03.73 (DUQUESNE RD)
107+11	107+89.01	ZORA STREET	CENTER ISLAND	531			531.0	
105+14.21	110+82.19	ZORA STREET	CONCRETE AREA			5744.0		205+50 TO 211+33.61 (DUQUESNE RD)
			TOTALS	879	4865	5744	531	

ROCK BLANKET				
STATION	LOCATION	SIDE	SQ. YD.	NOTES
103+50	ZORA STREET	LT	12.4	7'x16'x1'
	TOTAL		12.4	

DRIVEWAY SURFACING QUANTITIES						
STATION	LOCATION	SIDE	MODOT TYPE 1 AGGREGATE SURFACE (6") (SQ. YD.)	CONCRETE PAVEMENT (6") (SQ. YD.)	CONCRETE PAVEMENT (8") (SQ. YD.)	NOTES
105+51.74	DRIVE 1	RT	28.9	0.0	0.0	ZORA WEST LEG
105+51.75	DRIVE 2	RT	126.1	22.9	0.0	ZORA WEST LEG
109+37.46	DRIVE 3	RT	0.0	23.8	0.0	ZORA EAST LEG
110+55.39	DRIVE 4	RT	0.0	30.2	0.0	ZORA EAST LEG
209+61.64	DRIVE 5	RT	81.7	0.0	107.2	DUQUESNE NORTH LEG
210+62.05	DRIVE 6	RT	0.0	0.0	73.9	DUQUESNE NORTH LEG
104+41.78	DRIVE 7	LT	0.0	0.0	213.7	ZORA WEST LEG
105+92.24	DRIVE 8	LT	0.0	0.0	118.8	ZORA WEST LEG
209+47.26	DRIVE 9	LT	0.0	0.0	115.0	DUQUESNE NORTH LEG
210+73.78	DRIVE 10	LT	0.0	0.0	301.9	DUQUESNE NORTH LEG
		TOTALS	237	77	931	

CURB AND GUTTER COMBINED										
STATION	OFFSET	STATION	OFFSET	LOCATION	SIDE	City of Joplin Standard C&G (LN. FT.)	MoDOT Type A Barrier Curb (LN. FT.)	MoDOT Modified Type F Curb (LN FT.)	Truck Apron Curb (LN FT.)	NOTES
103+14.23	16.19	105+14.23	19.00	WEST ZORA	LT	195				
103+14.23	15.19	105+14.23	19.00	WEST ZORA	RT	204				
105+14.23	19.00	205+60.70	20.50	WEST ZORA TO SOUTH DUQ	RT		322			INTEGRAL CURB
205+60.70	20.50	205+50	20.5	SOUTH DUQUESNE	RT	11				
105+14.23	19.00	209+93.61	15.50	WEST ZORA TO NORTH DUQ	LT		391			INTEGRAL CURB
209+93.61	15.50	211+33.61	12.00	NORTH DUQUESNE	LT	140				
209+93.61	12.00	110+82.85	17.00	NORTH DUQ TO EAST ZORA	LT		508			INTEGRAL CURB
205+50	20.5	205+60.70	20.50	SOUTH DUQUESNE	LT	11				
205+60.70	20.5	110+81.52	17.96	SOUTH DUQ TO EAST ZORA	RT		413			INTEGRAL CURB
				ROUNDABOUT CENTER				251		
				TRUCK APRON					352	
105+93.18	-	106+75.16	-	ZORA WEST SPLITTER	-		197			INTEGRAL CURB
208+24.91	-	209+03.74	-	DUQ NORTH SPLITTER	-		178			INTEGRAL CURB
108+24.87	-	109+05.35	-	ZORA EAST SPLITTER	-		188			INTEGRAL CURB
205+93.57	-	206+75.04	-	DUQ SOUTH SPLITTER	-		189			INTEGRAL CURB
					TOTAL	561	2386	251	352	

EARTHWORK									
			UNCLASSIFIED EXCAVATION EXCAVATION						
STATION TO STATION		LOCATION	TOTAL CUT (Cu. Yd.)	EXISTING PAVEMENT (Cu. Yd.)	VMF DIRT	VMF PVMT	EMBANKMENT (Cu. Yd.)	IMPORTED FILL (Cu Yd.)	NOTES
102+84.27	112+16.03	ZORA	2600	998	0.85	1.00	1250	100	ZORA & DUQUESNE ENTIRE PROJECT
		TOTAL	2600.0	998.0			1250.0	100.0	

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Missouri Certificate of Authority #001592
702 S. Main Street
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STATE OF MISSOURI
JONATHAN W. PEITZ
NUMBER PE-2017019023
PROFESSIONAL ENGINEER
JONATHAN W. PEITZ–CIVIL ENGINEER
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REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	5/31/2024	ADDENDUM #4 - REVISED QUANTITIES	SMK

REVISIONS

SUMMARY OF QUANTITIES

ZORA STREET IMPROVEMENTS - PHASE 1
CITY OF JOPLIN

2024

JOPLIN, MISSOURI

drawn by: ZLL/SMK/CTK
checked by: CAD
approved by: JWP
QA/QC by: ENG
project no.: 017-0642-D
drawing no.: C_QTY01_D170642
date: 4/26/2024

SHEET
8 of 88

DWG: F:\2017\0501-1000\017-0642-D\40-Design\AutoCAD\Final Plans\Sheets\GNCV\C_QTY01_D170642.dwg USER: skendall
DATE: May 31, 2024 11:05am XREFS: C_PTBLK_D170642

STORM SEWER STRUCTURES & PIPE																
STATION	STATION	LOCATION	SIDE	STRUCTURE NO.	INLET (AREA) (3x3') (Each)	INLET (AREA) (4'x4') (Each)	INLET (CURB) (5'x3') TYPE C (Each)	INLET (CURB) (5'x4') TYPE C (Each)	INLET (CURB) (5'x5') TYPE C (Each)	RCP 15" (Ft.)	RCP 18" (Ft.)	RCP 24" (Ft.)	RCP 30" (Ft.)	END SECTION 15" RC (Each)	END SECTION 30" RC (Each)	NOTES
	103+00	ZORA STREET	RT	FES-1 & FES-2						32				2		STORM DRAIN: SD-1
103+62.75	107+53.13	ZORA STREET	LT	CI-6, CI-1, FES-3				1	1				444		1	STORM DRAIN: SD-2
107+53.13	108+26.80	ZORA STREET	LT	CI-2			1				79					STORM DRAIN: SD-3
108+26.80	108+26.39	ZORA STREET	LT TO RT	CI-3			1			80						STORM DRAIN: SD-4
208+29.87	209+15.16	DUQUESNE ROAD	RT	CI-5				1					88			STORM DRAIN: SD-5
209+15.16	210+21.20	DUQUESNE ROAD	RT	AI-2		1						99				STORM DRAIN: SD-6
210+21.20	210+92.50	DUQUESNE ROAD	RT	AI-3		1						67				STORM DRAIN: SD-7
209+15.09	209+15.31	DUQUESNE ROAD	LT TO RT	CI-4			1			39						STORM DRAIN: SD-8
209+15.13	209+15.31	DUQUESNE ROAD	RT	AI-1	1					16						STORM DRAIN: SD-9
				TOTAL	1	2	3	2	1	167	79	166	532	2	1	

INLET PROTECTION				
STATION	LOCATION	SIDE	EA	NOTES
103+82	ZORA STREET	LT	1	CURB INLET CI-6
108+25	ZORA STREET	RT	1	CURB INLET CI-3
108+25	ZORA STREET	LT	1	CURB INLET CI-2
208+25	DUQUESNE ROAD	RT	1	CURB INLET CI-1
209+15	DUQUESNE ROAD	LT	1	CURB INLET CI-4
209+15	DUQUESNE ROAD	RT	1	CURB INLET CI-5
209+15	DUQUESNE ROAD	RT	1	AREA INLET AI-1
210+21	ZORA STREET	RT	1	AREA INLET AI-2
210+92	ZORA STREET	RT	1	AREA INLET AI-3
		TOTAL	9	

ALTERNATE DITCH CHECK				
STATION	LOCATION	SIDE	LF	NOTES
103+28	ZORA STREET	RT	14	
103+59	ZORA STREET	RT	14	
103+94	ZORA STREET	RT	14	
104+23	ZORA STREET	RT	14	
104+50	ZORA STREET	RT	14	
104+81	ZORA STREET	RT	14	
102+97	ZORA STREET	LT	14	
103+21	ZORA STREET	LT	14	
103+46	ZORA STREET	LT	14	
		TOTAL	126	

REMOVAL OF EXISTING STRUCTURES (For Information Only)							
STATION	STATION	LOCATION	SIDE	ITEM	QUANTITY	UNITS	NOTES
207+10.54	208+79.30	DUQUESNE ROAD	NE CORNER	PARKING LOT ASPHALT	10138	SF	
207+55.06	207+99.98	DUQUESNE ROAD	RT	BUILDING	1	EA	
103+14.23	110+82.17	ZORA STREET		ASPHALT PAVEMENT	18080	SF	
205+50	206+71.04	DUQUESNE ROAD		ASPHALT PAVEMENT NORTH	11803	SF	
206+98	211+33.61	DUQUESNE ROAD		ASPHALT PAVEMENT SOUTH	5325	SF	
210+36.79	210+38.20	DUQUESNE ROAD		CULVERT PIPE	40	LF	
109+22.30	109+45.45	ZORA STREET	RT	DRIVE 3	250	SF	
110+37.96	110+67.72	ZORA STREET	RT	DRIVE 4	431	SF	
210+41.34	210+77.39	DUQUESNE ROAD	RT	DRVE 6	560	SF	
103+14.23	110+82.18	ZORA STREET	LT	RELOCATE BURRIED TELEPHONE	1	LS	BY OTHERS 1
103+14.23	110+82.18	ZORA STREET	LT	RELOCATE BURRIED FIBER-OPTIC	1	LS	BY OTHERS 1
104+83.87		ZORA STREET	LT	POWER POLE	1	EA	BY OTHERS 2
105+92.96		ZORA STREET	RT	SPEED LIMIT SIGN	1	EA	
106+13.17		ZORA STREET	RT	WATER METER	1	EA	BY OTHERS 2
106+60.16		ZORA STREET	LT	STOP SIGN	1	EA	
106+66.37		ZORA STREET	RT	POWER POLE	1	EA	BY OTHERS 2
106+79.89		ZORA STREET	RT	POWER POLE	1	EA	BY OTHERS 2
107+04.39		ZORA STREET	RT	POWER POLE	1	EA	BY OTHERS 2
107+76.76		ZORA STREET	RT	RETAIL SIGN	1	EA	
108+03.92		ZORA STREET	RT	STOP SIGN	1	EA	
108+56.58		ZORA STREET	LT	TELEPHONE BOX	1	EA	BY OTHERS 2
108+69.37		ZORA STREET	LT	TRUCK ROUTE SIGN	1	EA	
108+83.57		ZORA STREET	RT	POWER POLE	1	EA	BY OTHERS 2
206+00.10		DUQUESNE ROAD	LT	SPEED LIMIT SIGN	1	EA	
206+16.60		DUQUESNE ROAD	RT	STOP SIGN	1	EA	
206+33.86		DUQUESNE ROAD	LT	STREET SIGN	1	EA	
206+43.49		DUQUESNE ROAD	RT	FIRE HYDRANT	1	EA	BY OTHERS 2
207+62.91		DUQUESNE ROAD	RT	FIRE HYDRANT	1	EA	BY OTHERS 2
207+66.26		DUQUESNE ROAD	RT	BUCKLE UP SIGN	1	EA	
208+42.69		DUQUESNE ROAD	RT	SPEED LIMIT SIGN	1	EA	
208+79.95		DUQUESNE ROAD	RT	RADER ENFORSED SIGN	1	EA	
205+50.00	211+33.35	DUQUESNE ROAD	RT	RELOCATE BURRIED WATER LINE	1	LS	BY OTHERS 1

SILT FENCE					
STATION	STATION	LOCATION	SIDE	L.F.	NOTES
103+10	105+79	ZORA WEST	RT	297	
105+91	205+50	SW QUADRANT	RT	173	ZORA TO DUQ STA
205+48	205+45	DUQUESNE SOUTH	RT	23	
206+15	109+28	SE QUADRANT	RT	186	
109+35	110+51	ZORA EAST	RT	121	
110+62	112+25	ZORA EAST	RT	171	
			TOTAL	971	

SEEDING, FERTILIZING & MULCH					
STATION	STATION	LOCATION	SIDE	SQ. YD.	NOTES
102+84.98	104+01.62	ZORA WEST	LT	191.8	
104+85.34	105+71.02	ZORA WEST	LT	216.4	
207+73.35	209+28.57	NW QUADRANT	LT	400.7	DUQUESNE ROAD STA
103+14.23	105+41.99	ZORA WEST	RT	829.2	
207+00.60	205+50	SW QUADRANT	LT	822.0	DUQUESNE ROAD STA
209+43.59	112+16.03	NE QUADRANT	LT	1552.6	DUQ TO ZORA STA
205+50	109+29.66	SE QUADRANT	RT	348.2	DUQ TO ZORA STA
109+45.45	110+47.64	ZORA EAST	RT	171.0	
110+63.23	112+16.03	ZORA EAST	RT	116.3	
209+66.04	210+23.78	DUQUESNE NORTH	LT	97.2	
211+23.86	211+33.67	DUQUESNE NORTH	LT	15.4	
209+77.36	210+53.05	DUQUESNE NORTH	RT	172.0	
210+71.05	211+33.61	DUQUESNE NORTH	RT	114.2	
			TOTAL	5047	

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STATE OF MISSOURI
JONATHAN W. PEITZ
NUMBER PE-2017019023
PROFESSIONAL ENGINEER
JONATHAN W. PEITZ–CIVIL ENGINEER
MO# PE–2017019023

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	5/15/2024	ADDENDUM #1 - CLARIFY UTILITY RELOCATION RESPONSIBILITY	SMK
2	5/31/2024	ADDENDUM #4 - REVISED QUANTITY NOTES	SMK

REVISIONS

SUMMARY OF QUANTITIES

ZORA STREET IMPROVEMENTS - PHASE 1
CITY OF JOPLIN

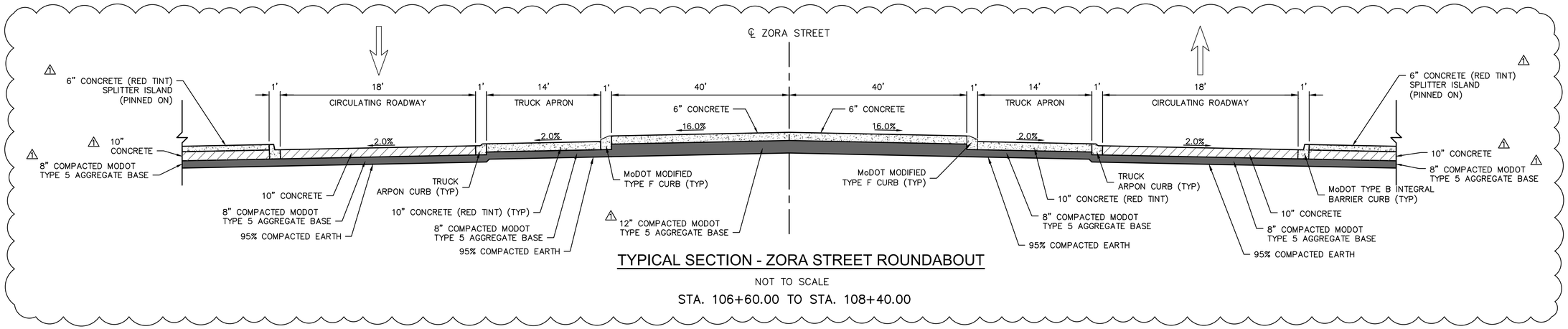
JOPLIN, MISSOURI

2024

drawn by: ZLL/SMK/CTK
checked by: CAD
approved by: JWP
QA/QC by: ENG
project no.: 017-0642-D
drawing no.: C_QTY01_D170642
date: 4/26/2024

SHEET
9 of 88

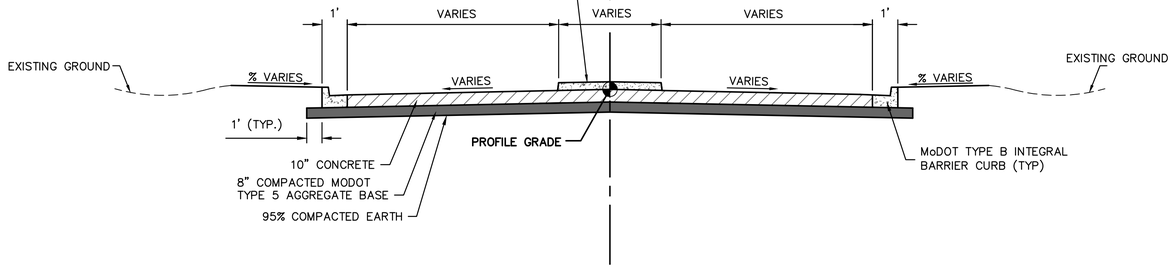
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DATE: May 31, 2024 11:03am XREFS: C_PTBLK_D170642



TYPICAL SECTION - ZORA STREET ROUNDABOUT

NOT TO SCALE

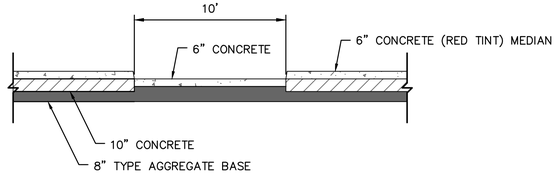
STA. 106+60.00 TO STA. 108+40.00



TYPICAL SECTION - SPLITTER ISLAND

NOT TO SCALE

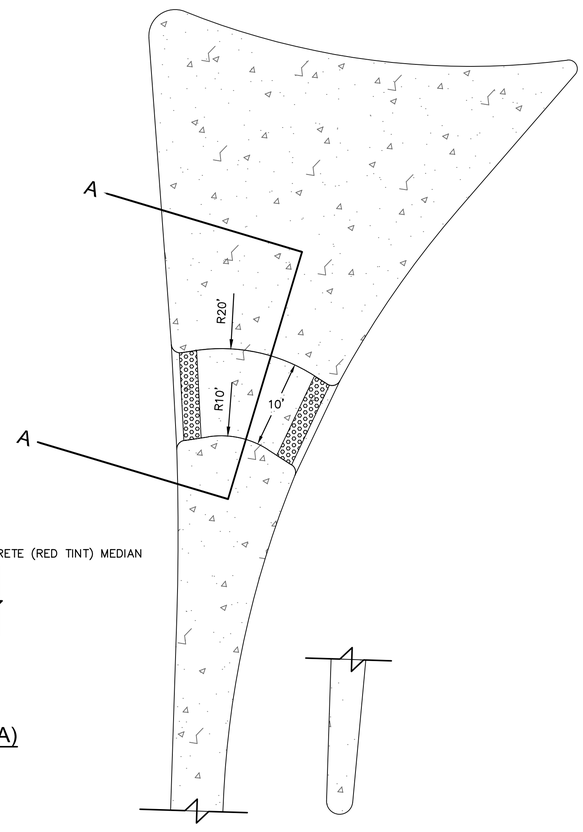
NOTE:
AGGREGATE AREA SHALL BE CONSIDERED AS EXTENDING 1' BEYOND THE BACK OF CURB FOR PURPOSES OF PAY LIMITS



TYPICAL PINNED ON SPLITTER ISLAND (A - A)

NOT TO SCALE

* PINNED ON ISLAND.
SEE MoDOT DETAIL ON SHEET 39 FOR ADDITIONAL DETAIL.



TYPICAL PINNED ON SPLITTER ISLAND

NOT TO SCALE

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REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	5/31/2024	ADDENDUM #4 - REVISED ROUNDABOUT TYPICAL SECTION	SMK

REVISIONS

TYPICAL SECTIONS

ZORA STREET IMPROVEMENTS - PHASE 1
CITY OF JOPLIN

JOPLIN, MISSOURI

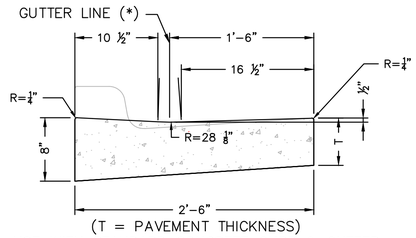
2024

drawn by: ZLL/SMK/CTK
checked by: CAD
approved by: JWP
QA/QC by: ENG
project no.: 017-0642-D
drawing no.: C_TYP01_D170642
date: 4/26/2024

SHEET
16 of 88

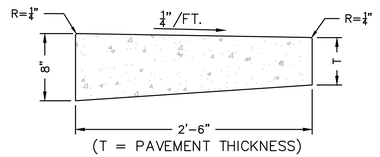
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DATE: May 31, 2024 10:32am XREFS: C_PTBLK_D170642

* – 0.5% MINIMUM POSITIVE SLOPE IN GUTTER LINE SHALL BE MAINTAINED THROUGH TRANSITION FROM STANDARD CURB TO RAMP CURB



(T = PAVEMENT THICKNESS)

USE WITH STANDARD CONCRETE CURB & GUTTER



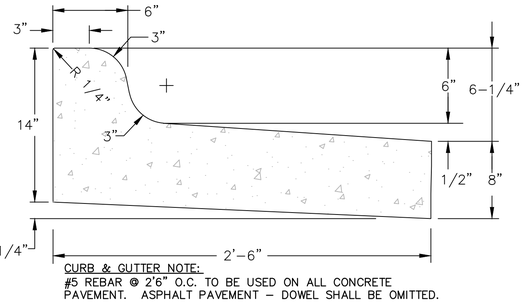
(T = PAVEMENT THICKNESS)

USE WITH 1/4" SPILL CURB & GUTTER

NOTE:
SEE STANDARD CURB DETAIL FOR ADDITIONAL REQUIREMENTS

STREET CURB DETAIL AT RAMP

NTS

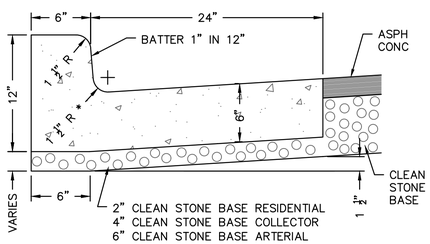


CURB & GUTTER NOTE:
#5 REBAR @ 2'6" O.C. TO BE USED ON ALL CONCRETE PAVEMENT. ASPHALT PAVEMENT – DOWEL SHALL BE OMITTED.

1/4" SPILL CURB & GUTTER DETAIL

NTS

* = OPTIONAL WITH APPROVAL BY CITY ENGINEER.



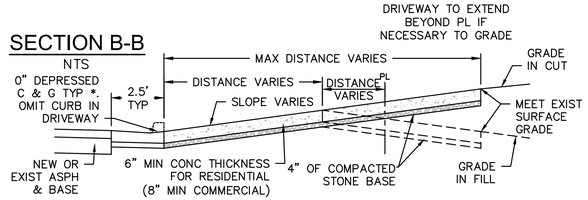
NOTES:
1. JOINT MATERIAL TO EXTEND THRU C & G, FRONT TO BACK, & NEATLY TRIMMED TO MATCH CONC SURFACE.
2. FLOAT GROUT TO SURFACE ON EXPOSED SURFACES.
3. ALL POURED CONCRETE SHALL BE CLASS 'B'.

STANDARD UPRIGHT CURB & GUTTER

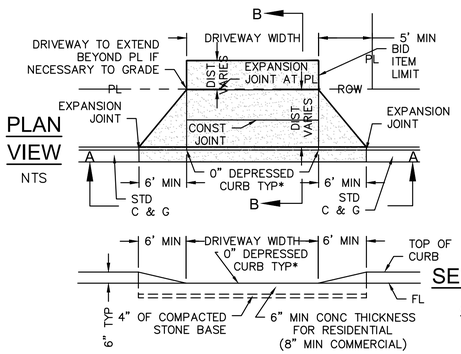
N.T.S.

SECTION B-B

NTS



NOTES:
1. ALL POURED CONCRETE SHALL BE CLASS 'B1'.
2. STEEL REINFORCEMENT IS NOT ALLOWED.
3. ALL GUTTER CONST IN FRONT OF DRIVEWAY & ALL C & G IN DRIVEWAY TRANSITIONS SHALL BE INCLUDED IN THE BID PRICE OF THE CURB & GUTTER.
4. BID PRICE FOR ALL DRIVEWAYS SHALL INCLUDE ALL EXCAVATION, LABOR, & MATERIALS REQUIRED TO CONSTRUCT DRIVEWAY.
5. * = 1.5" DEPRESSED CURB ALLOWED WHEN NEEDED FOR DRAINAGE OR SIDEWALK GRADE.
6. 5' INCREMENTS FOR GRADE CHANGES IN DRIVEWAY ARE ALLOWED TO MEET EXIST GRADE.
7. ALGEBRAIC DIFFERENCE AT GRADE CHANGES ARE NOT TO EXCEED 13%.
8. EXPANSION JOINTS SHALL BE CONSTRUCTED NEAR PROPERTY LINE & THROUGH C & G ADJACENT TO DRIVEWAY.
9. OPTIONAL CONSTRUCTION JOINTS MAY BE USED AT GRADE CHANGES IN DRIVEWAY.



PLAN VIEW
NTS

SECTION A-A
NTS

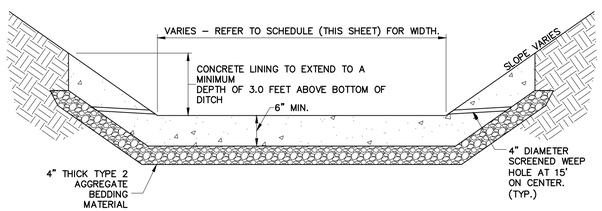
DRIVEWAY WITH NO SIDEWALK

NTS

BEDDING MATERIAL FOR DITCH LINING SHALL BE TYPE 2 AGGREGATE AS PER SECTION 1007 OF THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

CONCRETE LINING SHALL EXTEND TO A MINIMUM DEPTH OF 3.0 FEET ABOVE BOTTOM OF DITCH.

CONCRETE LINING SHALL BE SAW CUT AT A MAXIMUM OF 15 FOOT INTERVALS TO A MINIMUM DEPTH OF 1 1/2" WITHIN 48 HOURS OF POUR.

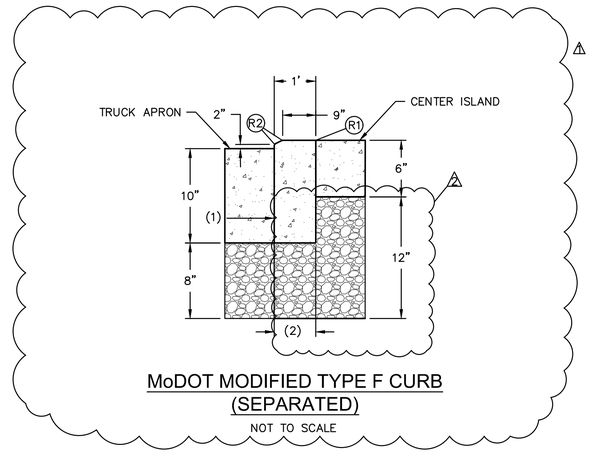


CONCRETE DITCH LINER

NTS

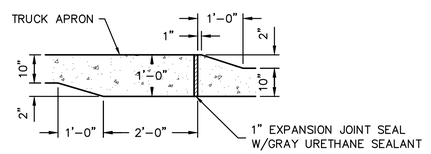
LEGEND

- (B) TIE BARS – 30" X #5 Ø AT 30" CTRS.
- (C) PERMISSIBLE CONSTRUCTION JOINT. IF CONSTRUCTED IN THIS MANNER TIE BARS MUST BE USED.
- (D) #4 Ø TIE BAR AT 24" CENTERS LENGTH OF THE TIE BARS EQUALS THICKNESS OF PAVEMENT PLUS HEIGHT OF CURB, LESS 3 INCHES.
- (L2) LONGITUDINAL JOINT WITH TIE BARS.
- (P) TOP OF PAVEMENT OR CONCRETE BASE.
- (R1) ROUND TO ¼" RADIUS (EXCEPT FOR SAWED JOINTS).
- (R2) ROUND TO ¾" RADIUS.
- (R3) CONSTRUCT TO 9" RADIUS.
- (1) PAY LIMIT FOR PAVEMENT
- (2) PAY LIMIT FOR CURB, OR CURB & GUTTER.



MoDOT MODIFIED TYPE F CURB (SEPARATED)

NOT TO SCALE



TRUCK APRON CURB

NOT TO SCALE

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STATE OF MISSOURI
JONATHAN W. PEITZ
NUMBER PE-2017019023
PROFESSIONAL ENGINEER
JONATHAN W. PEITZ–CIVIL ENGINEER
MO# PE–2017019023

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	5/15/2024	ADDENDUM #1 - REVISED MODIFIED TYPE F CURB DETAIL	SMK
2	5/31/2024	ADDENDUM #4 - REVISED AGGREGATE UNDER CENTER ISLAND	SMK

REVISIONS

STANDARD DETAILS

ZORA STREET IMPROVEMENTS - PHASE 1
CITY OF JOPLIN

2024

JOPLIN, MISSOURI

drawn by: ZLL/SMK/CTK
checked by: CAD
approved by: JWP
QA/QC by: ENG
project no.: 017-0642-D
drawing no.: C_DTL01_D170642
date: 4/26/2024

DWG: F:\2017\0501-1000\017-0642-D\40-Design\AutoCAD\Final Plans\Sheets\GNCV\C_DTL01_D170642.dwg USER: skendall
DATE: May 31, 2024 11:15am XREFS: C_PTBLK_D170642

GENERAL NOTES

1. All work shall conform to The City of Joplin Standard Specifications as applicable.

2. All traffic control in conjunction with the fiber optic construction shall be in conformance with the Manual on Uniform Traffic Control Devices and the Overland Park Traffic Control Handbook for Street Maintenance and Construction Operations, latest revisions.

3. The Contractor shall stake the locations for all service boxes to be installed. The stations and offsets provided are to the center of the fiber optic equipment. The contractor shall provide elevations. If obstructions are encountered during installation, the contractor will re-stake those locations affected by the obstruction. The inspector shall inspect the staking prior to any excavation/construction.

4. The locations of existing underground utilities, if shown, are an approximate only and have not been independently verified. The Contractor shall be responsible for contacting all utility companies for locations of all underground lines prior to excavation and be fully responsible for any and all damages, which might occur as a result of the Contractor's failure to exactly locate and preserve any and all underground utilities.

6. Rock and shale may be encountered and thus the bid items shall reflect the extra work necessary to accomplish the installation. No additional payments ("extras") will be made for excavation of rock or shale and suitable backfill materials. All conduit trenches within rock/shale shall be backfilled with suitable material and properly compacted in accordance with the specifications.

7. Conduit shall be bored (by approved methods) in those areas outside of the street improvement limits. Multiple conduits cannot be pulled back through the same bore unless otherwise approved.

8. Continuous Conduit (Orange, sized per plan) shall be installed between all service boxes prior to paving within the limits of the street improvements. Conduit splices between appurtenances shall not be allowed unless fusion couplings or other fusion methods are used.

9. The conduit placement shall be coordinated with the paving operation, when applicable. Conduit installation and conduit connections shall be inspected and approved by the City inspector. The contractor shall pay any and all extra costs of installing conduits by alternate construction methods after pavement has been placed or for any damages to pavement that may occur during conduit installation. All trenches for conduit under proposed paved surfaces (drives, streets and sidewalks) shall be backfilled with flowable fill unless otherwise directed, to below the proposed pavement surface.

10. Where applicable, the conduit shall be installed under underdrain pipe crossings and under the underdrain blankets. Refer to the street plans for underdrain pipe and blanket locations and appropriate details, if applicable.

11. All unpaved areas disturbed or damaged during construction shall be restored to the original condition. Unless otherwise directed, grassy areas shall be re-sodded.

12. Contractor shall use a polymer lubricating agent to facilitate conduit bores under paved streets. Failure to do so will result in a denial to retrieve bore head, in the case of loss, under any paved street by excavation methods.

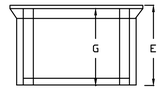
13. A 1c#10 AWG THHN/THWN stranded copper locating cable (red) shall be installed in all conduits.

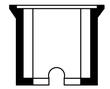
14. The ends of all conduit in service boxes shall be plugged with a high density spray foam.

SUMMARY OF FIBER OPTIC QUANTITIES*

ITEM	UNIT	QUANTITY
2" FIBER OPTIC HDPE CONDUIT WITH PULL STRING	LF	2480
TYPE IV 30x48 DOUBLE LID TIER 22 PULL BOX	EA	4
1-1c #10 TRACER WIRE	LF	620

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

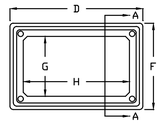




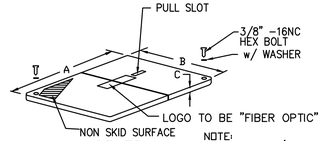
GENERAL NOTE: JUNCTION BOX TIER 22 ⚠2

MATERIAL TO BE USED: PRECAST POLYMER CONCRETE

SECTION A-A



BOX



COVER

NOTE: DOUBLE LID ⚠2

TYPE	DIMENSIONS (IN.)							
	A	B	C	D	E	F	G	H
IV FIBER*	47 5/8	30	3	48	36	30	28 1/4	45 7/8

*BOXES MAY BE STACKABLE TO ACHIEVE DIMENSIONS SHOWN

PULL BOX

TRENCH W/FOUR CONDUITS

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

TRENCHING DETAILS

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MO# PE-2017019023

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
⚠1	5/28/2024	ADDENDUM #3 - SHEET ADDED	SMK
⚠2	5/31/2024	ADDENDUM #4 - REVISED FO PAY ITEM & DETAIL	SMK

FIBER OPTIC DETAILS

ZORA STREET IMPROVEMENTS - PHASE 1
CITY OF JOPLIN

JOPLIN, MISSOURI

2024

drawn by: ZLL/SMK/CTK
checked by: CAD
approved by: JWP
QA/QC by: ENG
project no.: 017-0642-D
drawing no.: F_FIBER_D170642
date: 4/26/2024

DWG: F:\2017\0501-1000\017-0642-D\40-Design\AutoCAD\Final Plans\Sheets\GNCV\F_FIBER_D170642.dwg USER: skendall
DATE: May 31, 2024 11:26am XREFS: C_PTBLK_D170642