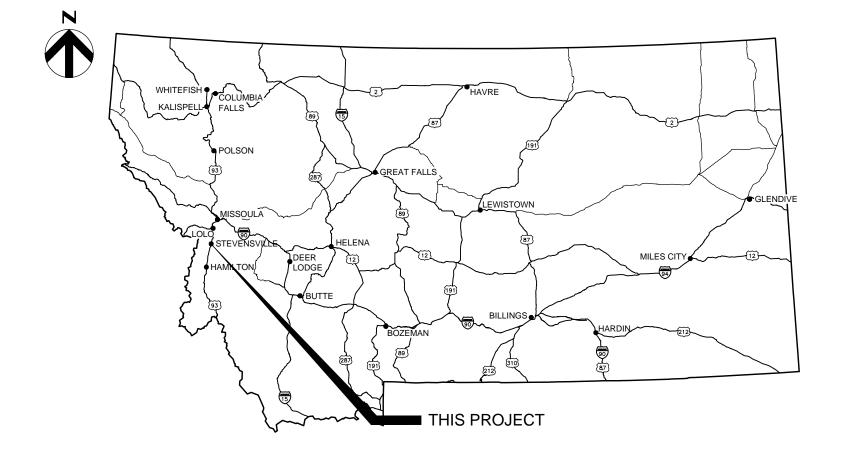


Town of Stevensville, MT



Contract Drawings For

5th Street Improvements

HDR Project No. 10223814

March, 2021

Stevensville, MT





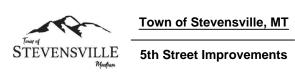
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DRAWINGS INDEX

1	CV	COVER SHEET & DRAWING INDEX
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7	RS	ROADWAY SURFACING & LAYOUT
8	SS	SIGNING & STRIPING

	ABBRE	VIATIONS	CIVIL MAPPING SYMBOLOGY		UTILI	TY/CIVIL LINE SY	
	AGGREGATE BASE COURSE ABOVE FINISHED GRADE AGGREGATE ALIGMENT ALUMINUM ANGLE POINT APPROXIMATE APPROVED AVENUE AVERAGE BITUMINOUS BACKING BRASS CAP BULDING BLOCK BENCHMARK BACK OF CURB BOTTOM OF PIPE BOTTOM OF PIPE BOTTOM OF PIPE BOTTOM DETAIL CURB AND GUTTER CATCH BASIN CUBIC FEET (FOOT) CURB INLET CATCH BASIN CUBIC FEET (FOOT) CURB INLET CATCH DASIN CUBIC FEET (FOOT) CURB INLET CATCH DASIN CUBIC FEET (FOOT) CURB INLET COMMUNICATION MANHOLE CORTUGATED METAL PIPE CITY OF BILLINGS COMBINATION CONCRETE COMIROL CONSTRUCTION CONCRETE CONTROL POINT CENTER CONTROL DEGREE DEMOLITION DETAIL DROP INLET DIAMETER DIMENSION DISTANCE DEPTH DRAWING EAST, EASTING ELEVATION ELECTRICAL ELECTRICAL MANHOLE ENCINEER EDGE OF PAVEMENT EQUAL EQUIVALENT ESTIMATE EXCAVATION ELECTRICAL ELECTRICAL MANHOLE ENCINEER EDGE OF PAVEMENT EQUAL EQUIVALENT ESTIMATE EXCAVATION EXISTING FLARED END SECTION FINISHED GRADE FIRE OPTIC FACE OF CURB FEET, FOOT GUTTER GRADE GROUND GRADE GRAVEL GUY WIRE HIGH HORIZONTAL CURVE Z HORIZONTAL CURVE	MAX MAXIMUM MH MANHOLE MIN MINMUM MSC MISCE MON MONUMENT N NORTH, NORTHING NMN NOMINAL NPS NOMINAL PIPE SIZE NTS NOT TO SCALE OD OUTSIDE DIAMETER OH OVERHEAD OPT OPTIOF OR OUTSIDE RADIUS PB PULL PC POINT OF CURVE PCC POINT OF CURVE PCC POINT OF CORPOUND CURVATURE PERP PERPERENDICULAR PI POINT OF INTERSECTION PL PROPERTY LINE PROP PROPERTY LINE PROP PROPERTY LINE PROP PROPERTY LINE PT POINT OF VERTICAL CURVATURE PRELIM PRELIMINARY PROP PROP PROPERTY, PROPOSED PT POINT OF VERTICAL CURVE VC POINT OF VERTICAL CURVE PVC POINT OF VERTICAL CURVE PVC POINT OF AND REPLACE	$ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	3 CIVIL MA EMBANKMENT SLOPE (CUT) EMBANKMENT SLOPE (FILL) EMBANKMENT SLOPE RIGHT ARROW RIGHT EMBANKMENT SLOPE RIGHT ARROW RIGHT EMBANKMENT SLOPE RIGHT ARROW RIGHT SPOT ELEVATION/POINT # SURVEY BENCHMARK SURVEY CONTROL POINT HORIZONTAL CONTROL POINT SECTION CORNER MONUMENT SECTION CORNER NO MONUMENT SECTION CORNER NO MONUMENT SECTION CORNER NO MONUMENT DENTIFICATION AND APPROXIMATE COATION OF SOIL BORE HOLE IRRIGATION HEAD WATER LEVEL IN SECTION/PROFILE IRRIGATION HEAD WATER MANHOLE TELEPHONE PEDESTAL FIBER OPTIC PEDESTAL FIBER OPTIC PEDESTAL EXISTING TRAFFIC SIGNAL EXISTING TRAFFIC SIGNAL EXISTING TRAFFIC SIGNAL EXISTING STREET LIGHT EXISTING PULL BOX MAILBOX NATURAL GAS METER VALVE	YMBOLOGY CULVERT END SYMBOL (WITH CULVERT SHOWN BETWEEN SYMBOLS) FIRE HYDRANT MONITORING WELL DRAINAGE INFILTRATION STRUCTURE SANITARY MANHOLE STORM CATCH BASIN STORM ROUND CATCH BASIN STORM DRAINAGE MANHOLE		CMP CULVERT CENTERLINE BOTTOM OF DITCH PROPERTY LINE EASEMENT LIMITS OF CONSTRUCTION ROW EXISTING CONTOUR (MINOR) EXISTING CONTOUR W/ELEVATIO (MAJOR) EXISTING FENCE EXISTING VEGETATION/BRUSH L FENCE - BARB WIRE FENCE - CHAIN LINK FENCE - FIELD FENCE - OTHER FENCE - OTHER FENCE - OTHER NEW CONTOUR (MAJOR) NEW CONTOUR (MAJOR) NEW CONTOUR (MAJOR) NEW CONTOUR (MAJOR) TOE OF SLOPE TOP OF SLOPE STORM DRAIN SANITARY SEWER SANITARY SEWER S
GR GVL GW H HC	GRADE GRAVEL GUY WIRE HIGH HORIZONTAL CURVE	UNO UNLESS NOTED OTHERWISE UTIL UTILITY VC VERTICAL CURVE VCT VERTICAL CENTERLINE VERT VERTICAL VIF VERIFY IN FIELD VOL VOLUME VPC VERTICAL POINT OF CURVATURE		VALVE			

			PROJECT MANAGE	R RILEY LUBBERS
			DESIGNED E	Y CBC
			REVIEWED	Y RCL
			CHECKED E	iY LJF
3	03-15-2021	BID SET		
2	10-19-2020	FINAL DESIGN		
1	09-01-2020	PRELIMINARY DESIGN		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10223814

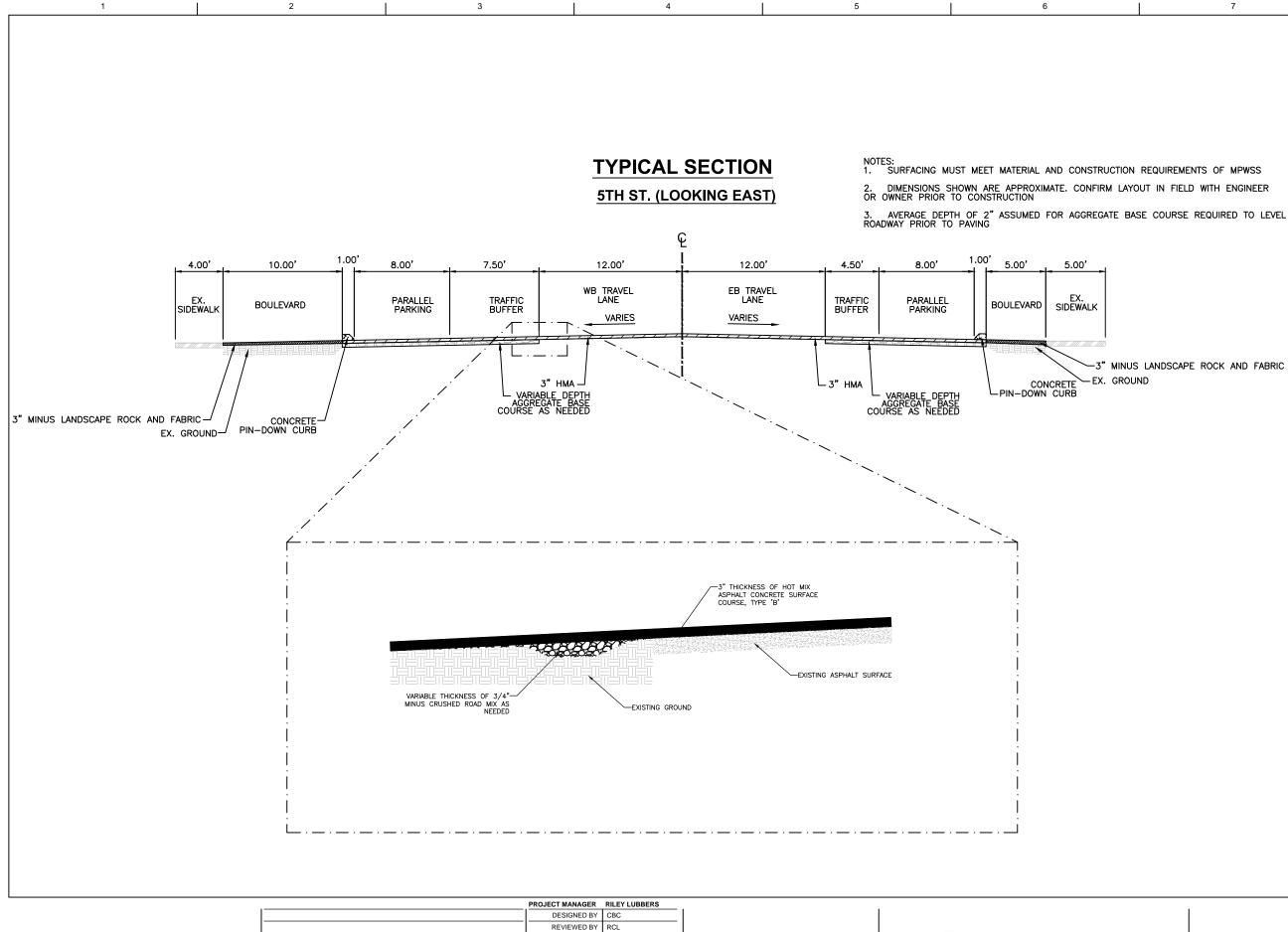


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YMBOLOG	Y	BID SET	
	·		
			D
ION			
LINE			
			С
			В
		GENERAL NOTES:	
		1. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.	
		 LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS. 	A
		3. THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.	
		4. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.	
	GENERAL NO	TES & ABBREVIATIONS	l

Town of Stevensville, MT

LINE IS 1 INCH sheet name LG - 01





CHECKED BY

PROJECT NUMBER 10223814

	ISSUE	DATE	DESCRIPTION
- •	1	09-01-2020	PRELIMINARY DESIGN
	2	10-19-2020	FINAL DESIGN
-	3	03-15-2021	BID SET

STEVENSVILLE Montana

5th Street Improvements

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D

BID SET

-3" MINUS LANDSCAPE ROCK AND FABRIC

Town of Stevensville, MT

TYPICAL SECTIONS

LINE IS 1 INCH AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)

SHEET NAME TS - 01





H

			PROJECT MANAGER	RILEY LUBBERS
			DESIGNED BY	CBC
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			CHECKED BY	LJF
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5th Street Improvements



BID SET GENERAL NOTES:

1. EXISTING UTILITIES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES AND FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES POTENTIALLY IN CONFLICT WITH THE WORK.

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2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "MONTANA PUBLIC WORKS STANDARD SPECIFICATION, 6TH EDITION, APRIL 2010."

3. PROTECT-IN-PLACE EXISTING MANHOLES, WATER VALVES, HYDRANTS, AND OTHER MISCELLANEOUS UTILITIES AND FEATURES NOT CALLED OUT IN THE PLANS.

CONSTRUCTION NOTES:

- (1) EXISTING TREES, PROTECT-IN-PLACE
- 2 EXISTING GRAVEL/NATIVE MATERIAL
- 3 EXISTING ASPHALT SURFACE
- EXISTING CONCRETE SIDEWALK, PROTECT-IN-PLACE

LEGEND:

REMOVE ASPHALT PAVEMENT

SKIM EXISTING SURFACE OF ORGANICS & VEGETATION. SMOOTH GRADE TO DRAIN USING BASE MATERIAL WHERE NEEDED

EXISTING CONCRETE

EXISTING GRAVEL/NATIVE MATERIAL

EXISTING ASPHALT SURFACE





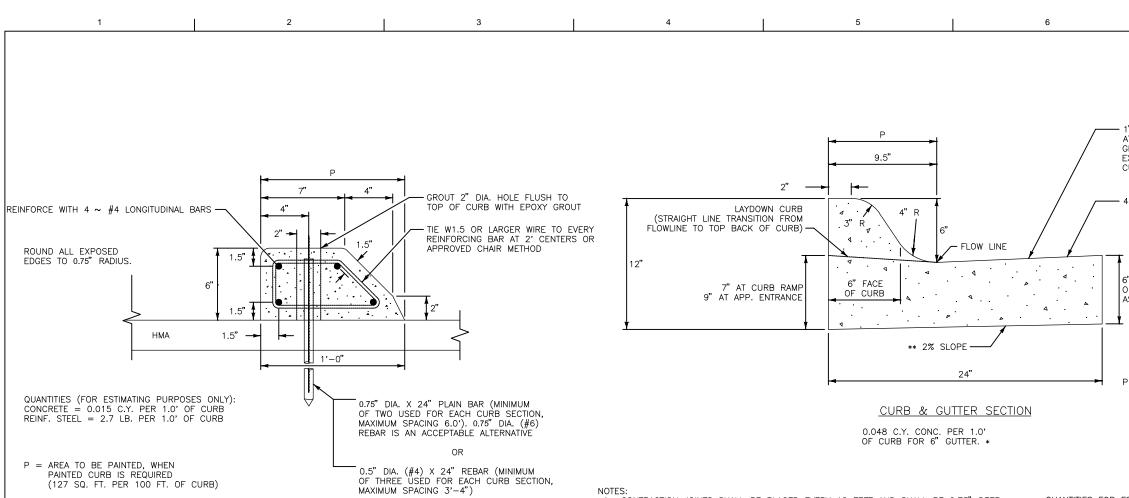
LINE IS 1 INCH AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)

SHEET NAME DM - 01

DEMOLITION & EXISTING



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CONSTRUCTION:

CURBS MAY BE CONSTRUCTED USING ANY OF THE FOLLOWING THREE METHODS: (1) PRECAST
 (2) CAST IN PLACE
 (3) CONSTRUCTED BY THE USE OF AN APPROVED CURB FORMING OR SLIP

- FORM MACHINE.

WHEN USING EITHER METHOD (2) OR (3), REINFORCING STEEL IS NOT REQUIRED, WITH THE EXCEPTION OF THE PINS, AND THE CURBS ARE SCORED OR SAWN TO A DEPTH OF 1" TO FORM CONTRACTION JOINTS AT INTERVALS OF 10 FEET OR LESS. EXTEND 0.5" MIN. WIDTH EXPANSION JOINTS COMPLETELY THROUGH CURB EVERY 100 FEET (\pm 30 FEET), AT INTERVALS EQUAL TO THE NEAREST MULTIPLE OF THE CONTRACTION JOINT INTERVAL AND FILL WITH PREFORMED EXPANSION JOINT FILLER MEETING AASHTO M 213.

FORM PRECAST CURBS IN THEIR INVERTED POSITION, IN LENGTHS NOT LESS THAN FOUR FEET, OR MORE THAN TEN FEET.

MATERIAL:

CONSTRUCT CURBS OF STRUCTURAL CONCRETE, OR AN APPROVED EQUIVALENT MIX.

EPOXY BINDER FOR GROUTING MUST MEET THE REQUIREMENTS OF AASHTO M 235 (ASTM C 881).

- CONTRACTION JOINTS SHALL BE PLACED EVERY 10 FEET AND SHALL BE 0.75" DEEP.
 EXPANSION JOINTS OF 0.5" MASTIC MATERIAL SHALL BE PLACED AT THE FOLLOWING LOCATIONS: P.C.S AND P.T.S OF CURVES, GRADE BREAKS, 4' ON EITHER SIDE OF A DRAINAGE STRUCTURE, AT OTHER LOCATIONS AS SPECIFIED BY ENGINEER. EXPANSION JOINTS MAY BE ELIMINATED FOR EXTRUDED CURB AT THE ENGINEER'S DISCRETION. 3. NO CURB SHALL BE PLACED WITHOUT A FINAL FORM INSPECTION BY THE ENGINEER
- AND/OR OWNER.
- 4. CONSTRUCTION MATERIALS AND PROCEDURES SHALL CONFORM TO EXISTING STATE STANDARD SPECIFICATIONS.

STEVEN

Town of Stevensville, MT

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1" DEEP CONTRACTION JOINT PLACED AT 10' MAXIMUM INTERVALS. GROOVES ARE CONTINUOUS ON THE TOP EXPOSED SURFACE FOR THE WIDTH OF CURB AND GUTTER

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С

BID SET

- 4% SLOPE

OR OTHERWISE AS REQUIRED

AREA TO BE PAINTED, WHEN PAINTED CURB IS REQUIRED (102 SQ. FT. PER 100 FT. OF CURB)

* QUANTITIES FOR ESTIMATING PURPOSES ONLY.

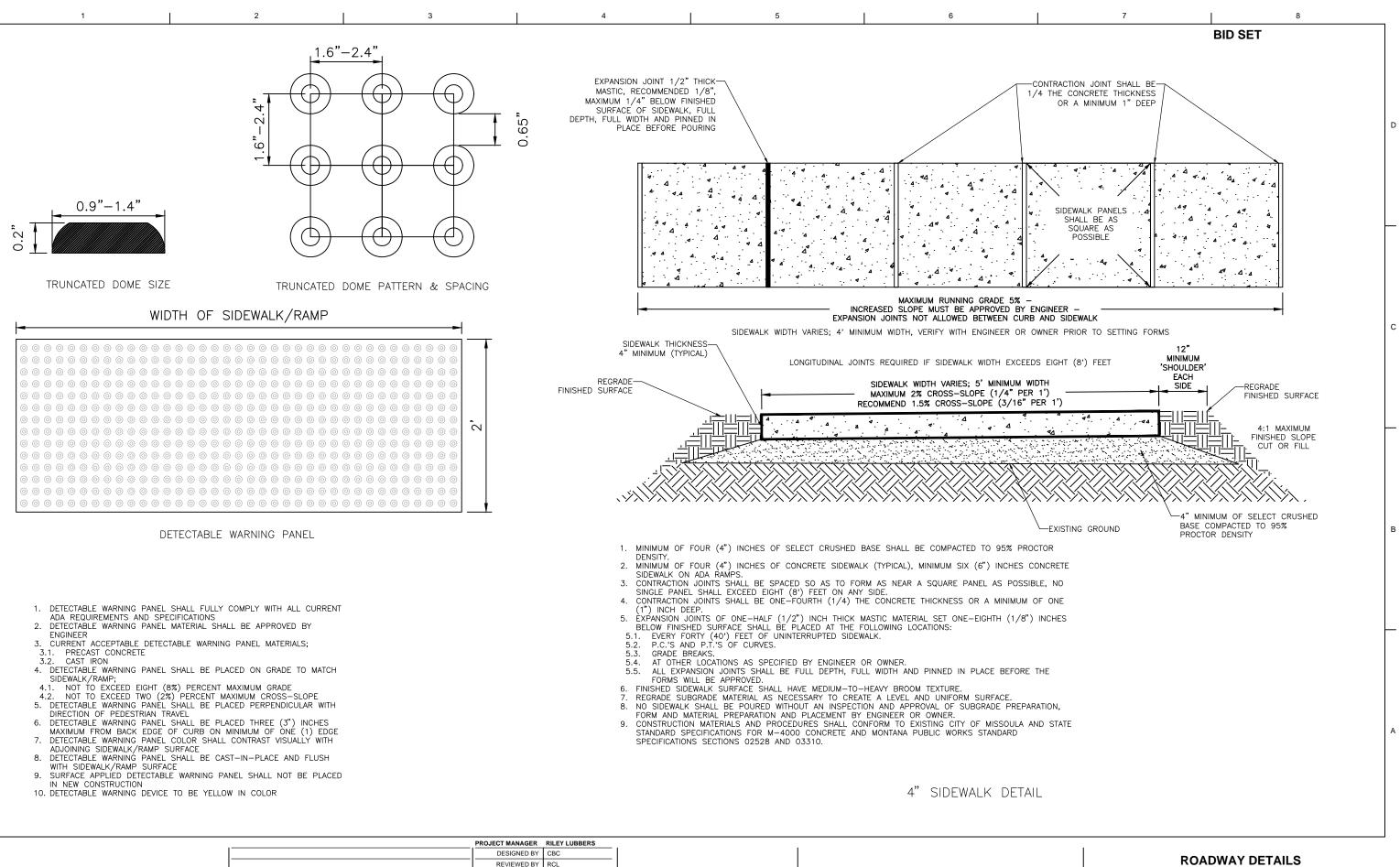
** THE SLOPE OF THE BOTTOM OF THE CURB AND GUTTER SHOULD MATCH THE SUPERELEVATION OF THE ROADWAY.

5th Street Improvements

ROADWAY DETAILS CONCRETE CURB DETAIL

LINE IS 1 INCH AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)

SHEET NAME RT - 01 SHEET NUMBER 5 OF 9



		PROJECT MANAGER	RILET LUBBERS
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PROJECT NUMBER 10223814

DESCRIPTION

ISSUE DATE

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Town of STEVENSVILLE Madaua	ļ

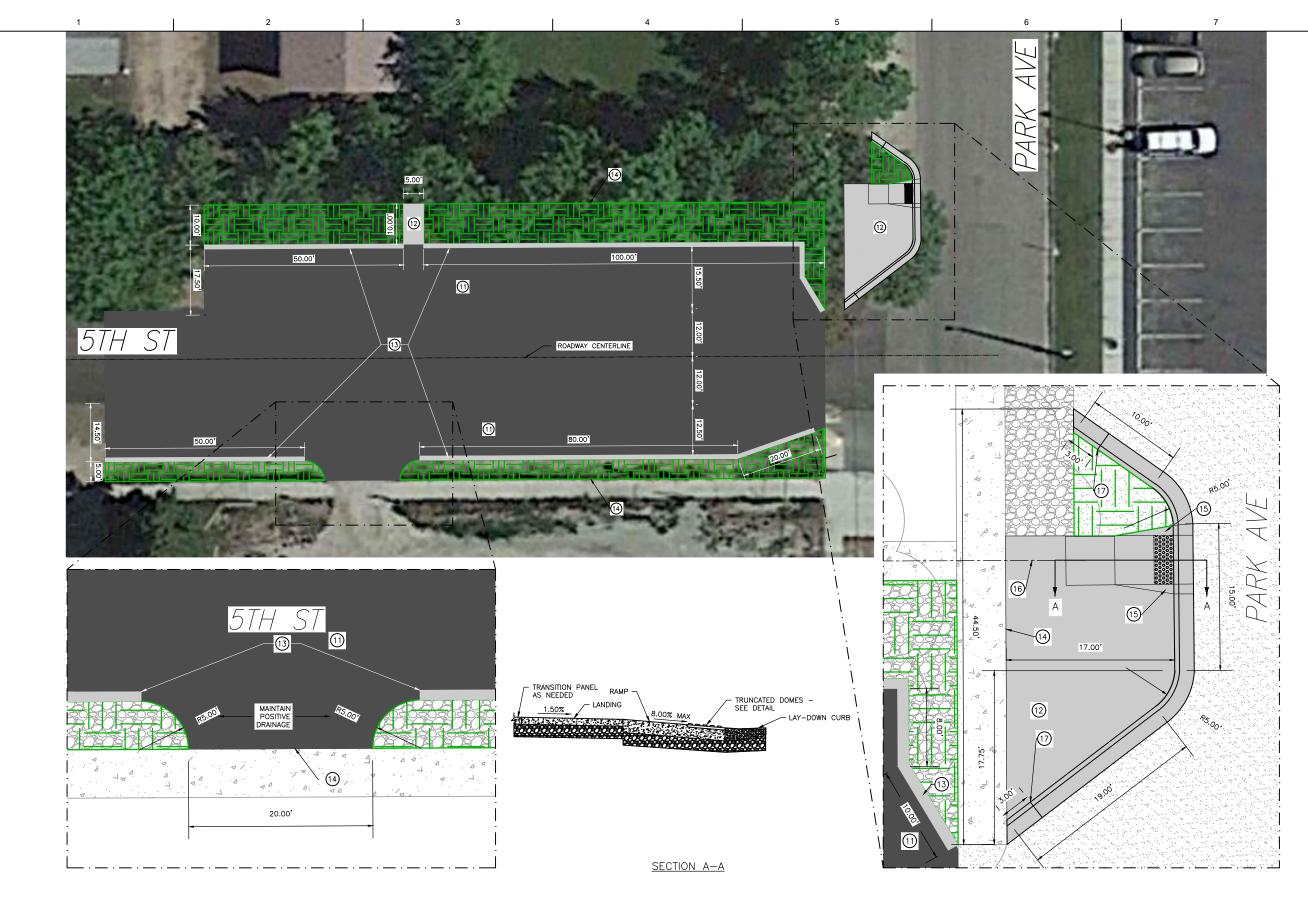
Town of Stevensville, MT

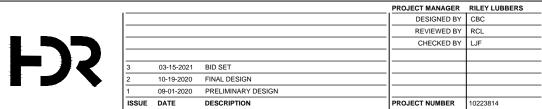
5th Street Improvements

DET. WARNING PANEL & SIDEWALK

LINE IS 1 INCH AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)

SHEET NAME RT - 02







5th Street Improvements



BID SET GENERAL NOTES:

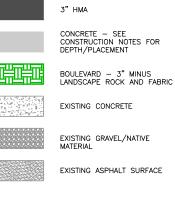
1. DIMENSIONS ARE APPROXIMATE AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. 2. CURB RAMP LANDING SHALL BE MINIMUM FIVE (5') FEET BY FIVE (5') FEET, NOT TO EXCEED TWO (2%) PERCENT MAXIMUM GRADE IN ANY DIRECTION. 3. RAMP GRADE SHALL NOT EXCEED EIGHT (8%) PERCENT MAXIMUM GRADE. 4. MAINTAIN POSITIVE DRAINAGE ON FINAL PLACEMENT OF HMA. 5. INSPECTION BY ENGINEER PRIOR TO PAVING

CONSTRUCTION NOTES:

(1) 3" HMA

LEGEND:

- (12) 4" CONCRETE SIDEWALK/CURB RAMP
- (13) 6" PIN-DOWN CURB. SEE DETAIL
- (14) MATCH EXISTING SIDEWALK EDGE
- 10% MAX SLOPE ON FLARES
- (16) ALIGN RAMP TO EXISTING SIDEWALK CENTERLINE
- (17) BEGIN CURB TERMINAL END





Town of Stevensville, MT

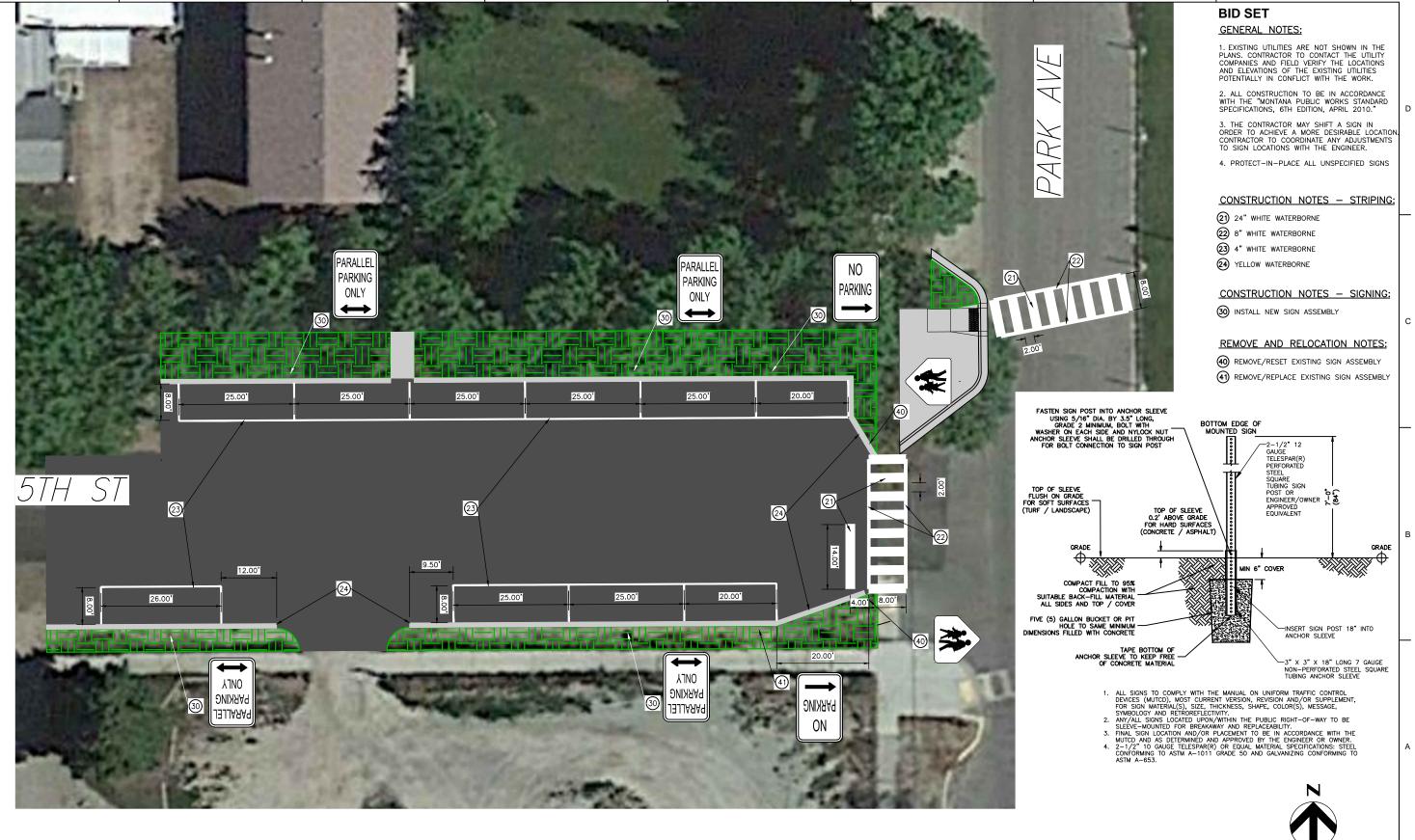
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SHEET NAME RS - 01

ROADWAY SURFACING & LAYOUT



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2



5th Street Improvements

6

SIGNING & STRIPING

Town of Stevensville, MT

LINE IS 1 INCH AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)

SS - 01



SHEET NAME

8