

MSU HOUSING DEFERRED MAINTENANCE

JULIA MARTIN FIBER LINE

MONTANA STATE UNIVERSITY

BOZEMAN, MONTANA

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PREPARED FOR:

A&E DESIGN

515 W. ASPEN STREET, SUITE 200A

BOZEMAN, MONTANA



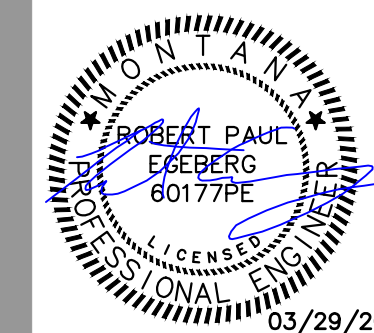
VICINITY MAP

NOT TO SCALE

FILE:	23312_COVER.DWG
PROJECT NO:	23312
CAD:	ALS
QUALITY ASSURANCE:	BPE

DRAWING HISTORY

DATE	DESCRIPTION
02/16/24	50% CD
03/29/24	100% CD
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LINETYPES

	EXISTING	PROPOSED
SANITARY SEWER	SS	SS
STORM DRAIN	SD	SD
WATER	W	W
CURB AND GUTTER		
EDGE OF ASPHALT	EDGE_OF_EX ASPHALT	
EDGE OF GRAVEL	EDGE_OF_EX GRAVEL	
FENCE - BARBED WIRE	X	X
FENCE - CHAINLINK/ WOVEN WIRE		
FENCE - VINYL	V	V
FENCE - WOOD		
FIBER OPTIC	FO	FO
GAS PIPELINE	G	G
LIQUID PROPANE PIPELINE	LP	LP
OIL PIPELINE	OIL	OIL
UNDERGROUND POWER	P	P
OVERHEAD POWER	OHP	OHP
TELEPHONE	T	T
TELEVISION/CABLE	TV	TV
CONTOUR	3157	3157
DEMO AREA		
PROPOSED ASPHALT		
PROPOSED CONCRETE		
PROPOSED GRAVEL		

ABBREVIATIONS

AC = FINISHED GRADE AT ASPHALT	PC = POINT OF CURVATURE
BC = FINISHED GRADE AT BUILDING CORNER	PI = POINT OF INTERSECTION
BRK = GRADE BREAK	POC = POINT ON CURVE
BFV = BUTTERFLY VALVE	PRC = POINT OF REVERSE CURVE
BVC = BEGIN VERTICAL CURVE	PT = POINT OF TANGENCY
CS = CURB STOP	PVI = POINT OF VERTICAL INTERSECTION
EA = FINISHED GRADE AT EDGE OF ASPHALT	RED = REDUCER
EC = FINISHED GRADE AT EDGE OF CONCRETE	RT = RIGHT
EVC = END VERTICAL CURVE	SD = STORM DRAIN
EW = FINISHED GRADE AT EDGE OF WALK	SDI = STORM DRAIN INLET
EX = APPROXIMATE EXISTING ELEVATION	SDMH = STORM DRAIN MANHOLE
FL = FINISHED GRADE AT FLOWLINE	SRVC = SERVICE
FT = FEET	SS = SANITARY SEWER
FG = FINISHED GRADE	SSMH = SANITARY SEWER MANHOLE
GR = EXISTING GRADE AT GROUND	TC = FINISHED GRADE AT TOP BACK OF CURB
GV = GATE VALVE	TW = FINISHED GRADE AT TOP OF WALL
HP = HIGH POINT	WTR = WATER
LF = LINEAL FOOT	(TYP.) = TYPICAL
LT = LEFT	

KEYNOTE CALL OUT
(SEE KEYNOTE LEGEND)

GRADING PLAN

1 CATCH CURB	CATCH CURB → TOP OF CURB - 0.38' = LIP
2 SPILL CURB	TOP OF CURB - 0.50' = FLOWLINE
3 TRANSITION FROM CATCH TO SPILL CURB	SPILL CURB → TOP OF CURB - 0.63' = LIP
4 TAPER CURB HEAD 3'	TOP OF CURB - 0.50' = FLOWLINE

SYMBOLS

▷ EXISTING WATER REDUCER	⊕ YARD HYDRANT	☐ TELEPHONE PEDESTAL	⊕ POWER MANHOLE	⊕ BUSH
▶ PROPOSED WATER REDUCER	⊙ EXISTING SANITARY SEWER MANHOLE	⊙ COMMUNICATIONS GROUND BOX PG2436CA0012	⊕ POWER METER	☀ CONIFEROUS TREE
⊗ EXISTING WATER VALVE	● PROPOSED SANITARY SEWER MANHOLE	⊕ COMMUNICATIONS PEDESTAL	⊙ POWER POLE	☀ DECIDUOUS TREE
✕ PROPOSED WATER VALVE	⊙ SANITARY SEWER CLEAN OUT	⊕ FIBER OPTIC GROUND BOX PG2436BA36	⊙ GUYWIRE	⊕ SIGNAL POLE
⊙ EXISTING FIRE HYDRANT	⊙ EXISTING STORM DRAIN MANHOLE	⊙ GAS MANHOLE	⊙ LIGHT POLE	○ FOUND CORNER MONUMENT AS NOTED
⊕ PROPOSED FIRE HYDRANT	● PROPOSED STORM DRAIN MANHOLE	⊕ GAS METER	⊙ SIGN	● SET CORNER MONUMENT, REBAR WITH CAP
⊕ EXISTING CURB STOP	□ EXISTING CATCH BASIN	⊕ GAS WELL	⊕ BOLLARD	⊕ BENCHMARK
⊕ PROPOSED CURB STOP	■ PROPOSED CATCH BASIN	⊕ GAS VALVE	□ EXISTING MONUMENT BOX	⊕ SECTION QUARTER CORNER
⊕ FIRE DEPT. CONNECTION	⊕ ROOF DRAIN	⊕ ELECTRIC JUNCTION BOX	■ PROPOSED MONUMENT BOX	⊕ SECTION CORNER
⊕ WELL	⊕ TELEPHONE BOX	⊕ ELECTRIC PEDESTAL	⊕ IRRIGATION BOX	
		⊕ TRANSFORMER	⊕ IRRIGATION VALVE	

NOTE:

EXISTING UNDERGROUND INSTALLATIONS & PRIVATE UTILITIES SHOWN ARE INDICATED ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF SUCH INFORMATION. SERVICE LINES (WATER, POWER, GAS, STORM, SEWER, TELEPHONE & TELEVISION) MAY NOT BE STRAIGHT LINES OR AS INDICATED ON THE PLANS. STATE LAW REQUIRES CONTRACTOR TO CALL ALL UTILITY COMPANIES BEFORE EXCAVATION FOR EXACT LOCATIONS.

ALL IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS 6TH EDITION, APRIL, 2010, AND THE CITY OF BOZEMAN STANDARD MODIFICATIONS, DATED MARCH 31, 2011, WITH ADDENDUM.

UNLESS OTHERWISE SPECIFIED, ALL CONSTRUCTION LAYOUT AND STAKING SHALL BE PERFORMED UNDER THE RESPONSIBLE CHARGE OF A LAND SURVEYOR LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND BY A PARTY CHIEF OR ENGINEERING TECHNICIAN EXPERIENCED IN CONSTRUCTION LAYOUT AND STAKING TECHNIQUES AS ARE REQUIRED BY THE SPECIFIC TYPE OF WORK BEING PERFORMED.

DRAWING HISTORY	DATE	DESCRIPTION
	07/16/24	50% CD
	07/29/24	100% CD

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QUALITY ASSURANCE:	BPE

FOR CONSTRUCTION

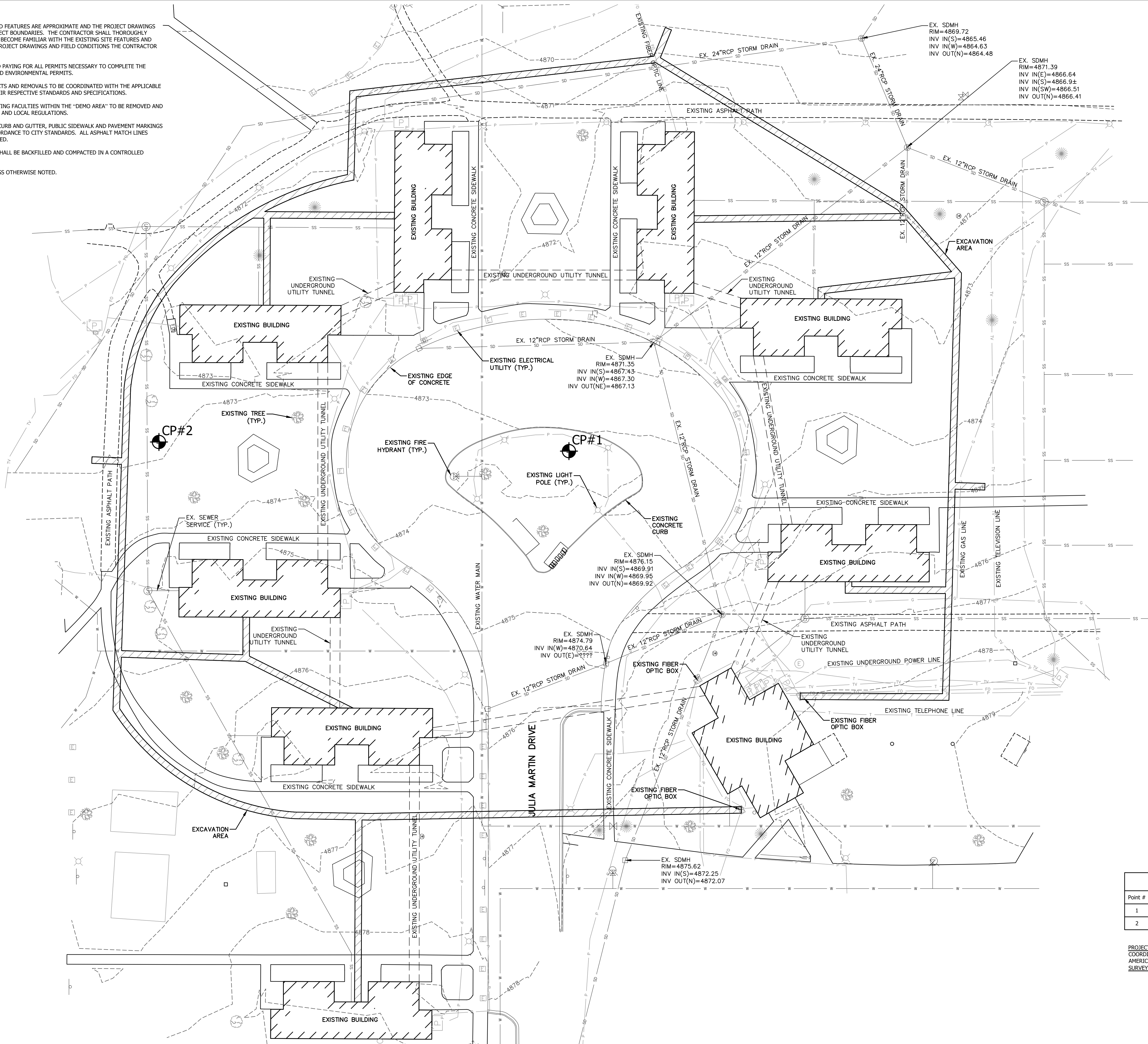
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LEGEND, NOTES AND ABBREVIATIONS

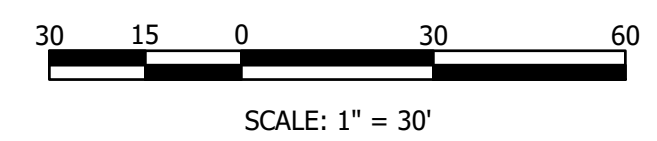
SITE DEMOLITION NOTES:

1. ALL LOCATIONS AND DIMENSIONS OF EXISTING AND PROPOSED FEATURES ARE APPROXIMATE AND THE PROJECT DRAWINGS MAY NOT INCLUDE ALL EXISTING FEATURES WITHIN THE PROJECT BOUNDARIES. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE SITE PRIOR TO BIDDING AND CONSTRUCTION TO BECOME FAMILIAR WITH THE EXISTING SITE FEATURES AND CONDITIONS. IF DISCREPANCIES ARE FOUND BETWEEN THE PROJECT DRAWINGS AND FIELD CONDITIONS THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS NECESSARY TO COMPLETE THE PROPOSED WORK INCLUDING DEMOLITION, RIGHT-OF-WAY AND ENVIRONMENTAL PERMITS.
3. ALL PUBLIC AND PRIVATE UTILITY TERMINATIONS, DISCONNECTS AND REMOVALS TO BE COORDINATED WITH THE APPLICABLE UTILITY PROVIDERS AND PERFORMED IN ACCORDANCE TO THEIR RESPECTIVE STANDARDS AND SPECIFICATIONS.
4. ALL EXISTING ASPHALT, CONCRETE, GRAVEL AND OTHER EXISTING FACILITIES WITHIN THE "DEMO AREA" TO BE REMOVED AND PROPERLY DISPOSED IN ACCORDANCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
5. ALL REMOVED, DISTURBED OR DAMAGED EXISTING ASPHALT, CURB AND GUTTER, PUBLIC SIDEWALK AND PAVEMENT MARKINGS WITHIN THE PUBLIC RIGHT-OF-WAY TO BE RESTORED IN ACCORDANCE TO CITY STANDARDS. ALL ASPHALT MATCH LINES SHALL BE SAW CUT TO PROVIDE FLUSH TRANSITION AND SEALED.
6. ALL EXCAVATIONS OR VOIDS CREATED DURING DEMOLITION SHALL BE BACKFILLED AND COMPACTED IN A CONTROLLED MANNER.
7. ALL TREES AND SHRUBS SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

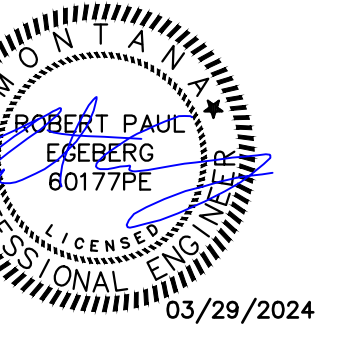


PROJECT SURVEY CONTROL				
Point #	Northing	Easting	Elevation	Description
1	116123.04	376620.11	4873.56	CP /SPIKE
2	116128.59	376371.33	4872.77	CP /AC2 SANDERSON STEWART

PROJECT DATUM: LOW DISTORTION PROJECTION
 COORDINATE SYSTEM (LDP MT83-802-1P) NORTH
 AMERICAN DATUM OF 1983
 SURVEYED: 02/20/24 BY: CK



FOR CONSTRUCTION

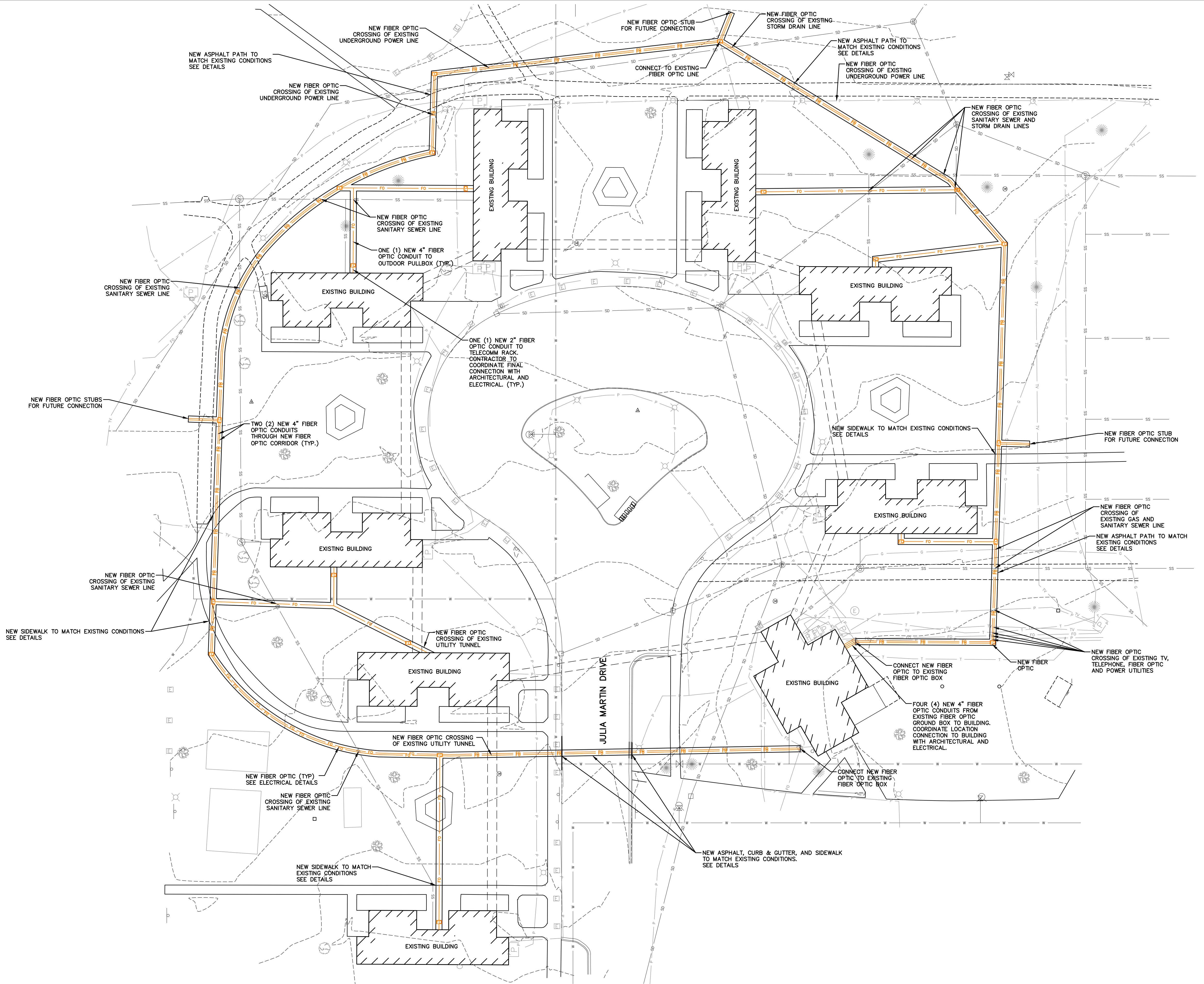


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 EXISTING CONDITIONS AND DEMOLITION PLAN



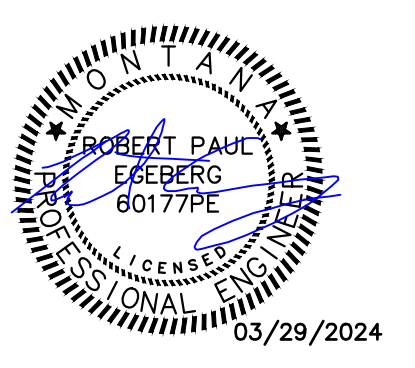
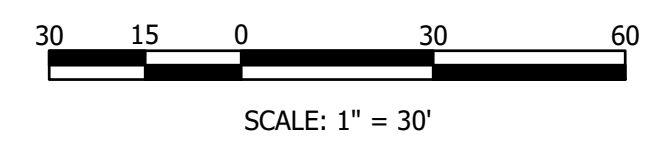


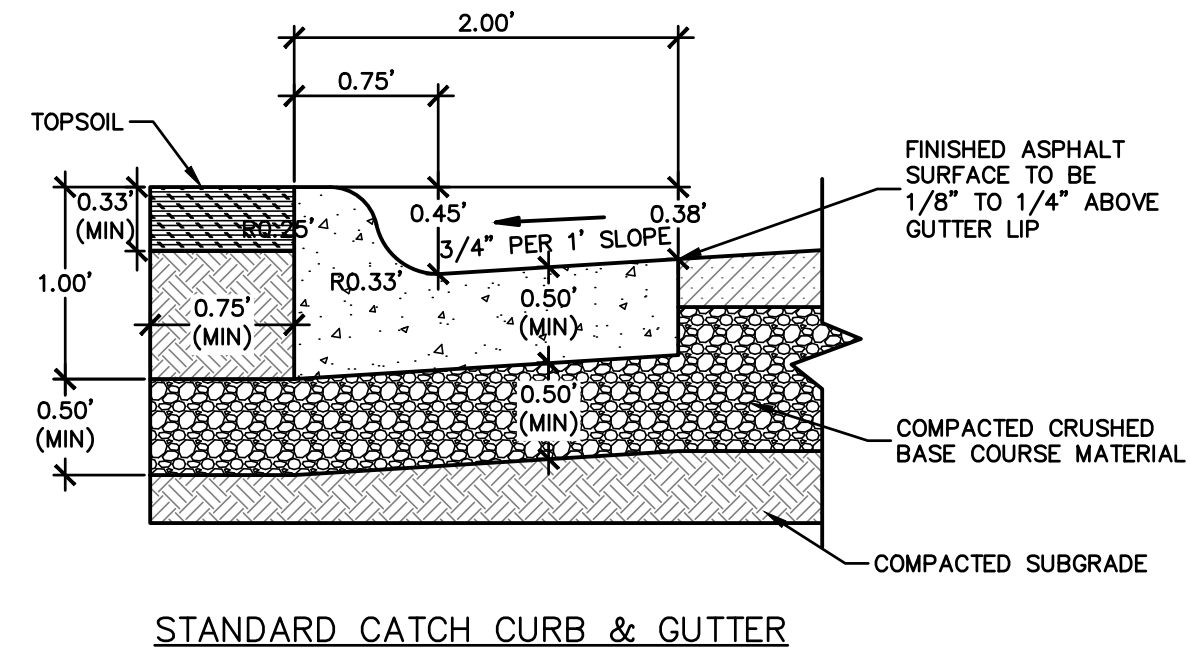
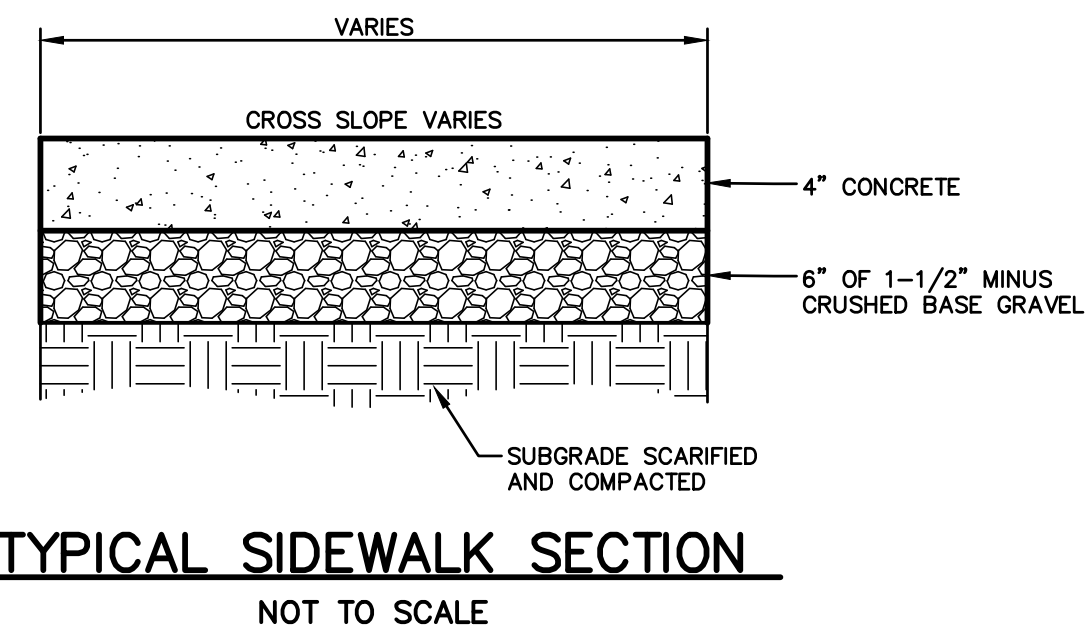
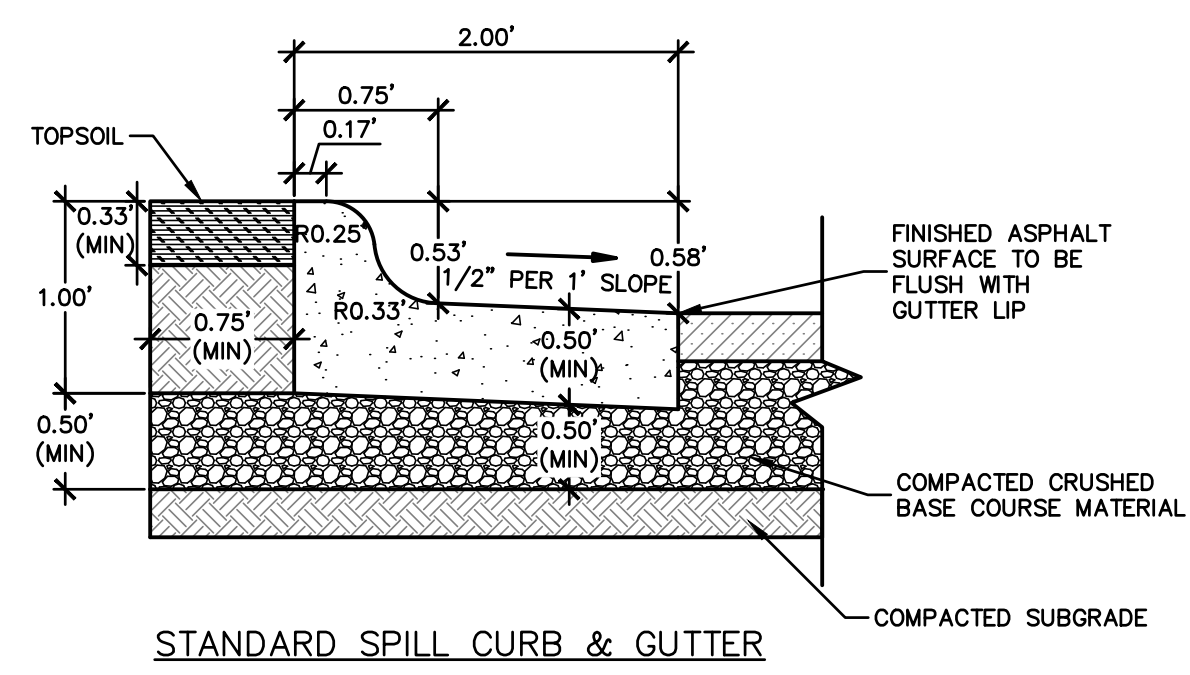
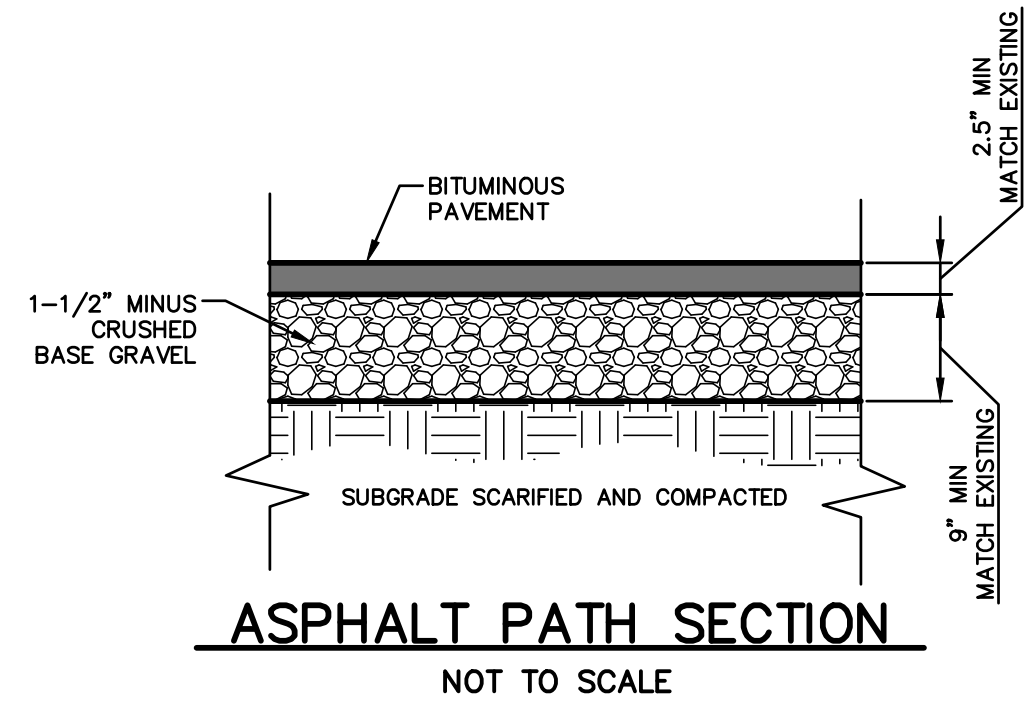
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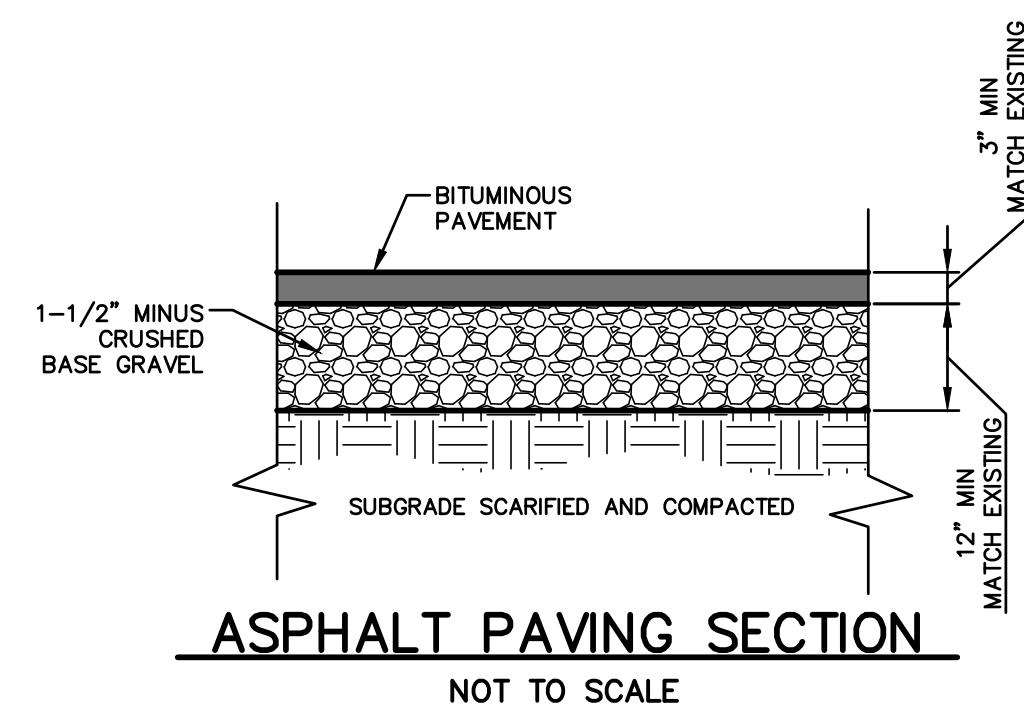
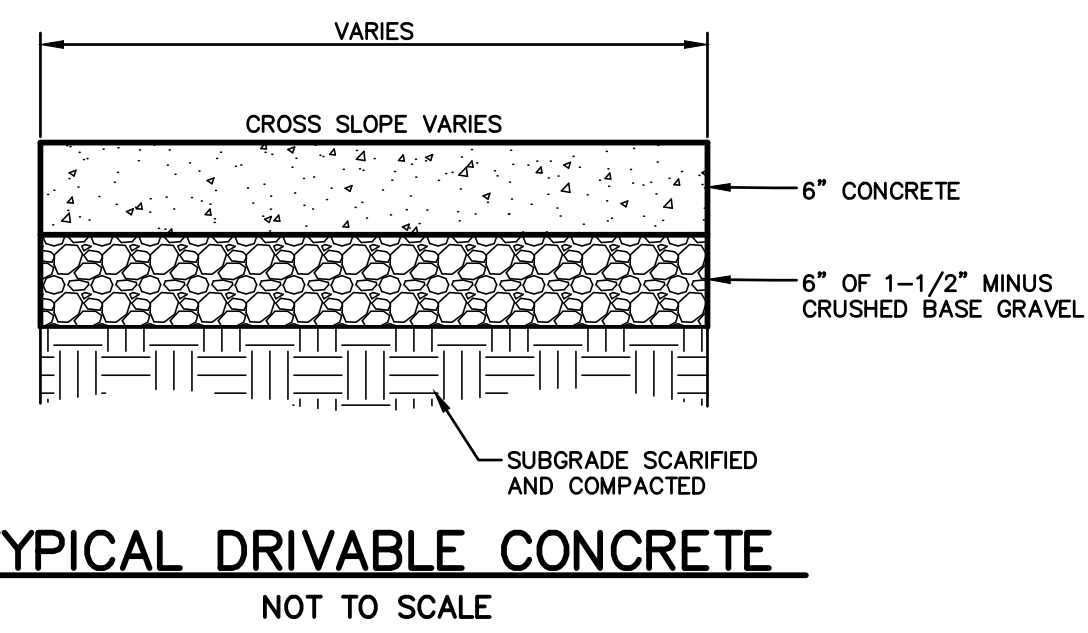
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 BOZEMAN, MONTANA
 SITE & UTILITY PLAN





- NOTES:**
1. SUBGRADE OR BASE COURSE COMPACTION SHALL CONFORM TO SECTION 02230 (MPWSS LATEST EDITION)
 2. CONTRACTION JOINTS SHALL BE PLACED AT 10' INTERVALS AND SHALL HAVE A MINIMUM DEPTH OF 3/4" AND MINIMUM WIDTH OF 1/8"
 3. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AT ALL P.C.S., P.T.S., CURB RETURNS AND AT NOT MORE THAN 300' INTERVALS. THE EXPANSION MATERIAL SHALL EXTEND THROUGH THE FULL DEPTH OF THE CURB AND GUTTER.
 4. NO CURB AND GUTTER SHALL BE PLACED WITHOUT A FINAL FORM INSPECTION BY THE CITY ENGINEER OR HIS REPRESENTATIVE.
 5. CONCRETE SHALL BE CLASS M-4000.
 6. CRUSHED GRAVEL BASE SHALL MEET THE REQUIREMENTS OF 02235 (MPWSS LATEST EDITION) FOR CURB AND GUTTER REPLACEMENT PROJECTS, WASHED ROCK MAY BE USED FOR THE GRAVEL BASE.

BOZEMAN CURB & GUTTER DETAIL
NOT TO SCALE



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DETAILS

