

RUSSELL COMMUTER TRAIL CROSSING

MISSOULA, MONTANA

CITY OF MISSOULA PROJECT #2020-065

PRELIMINARY
PLOTTED: 1/20/23
SAVED: 1/20/23
STAGE 3 PLANS

RUSSELL COMMUTER TRAIL CROSSING
MISSOULA, MONTANA

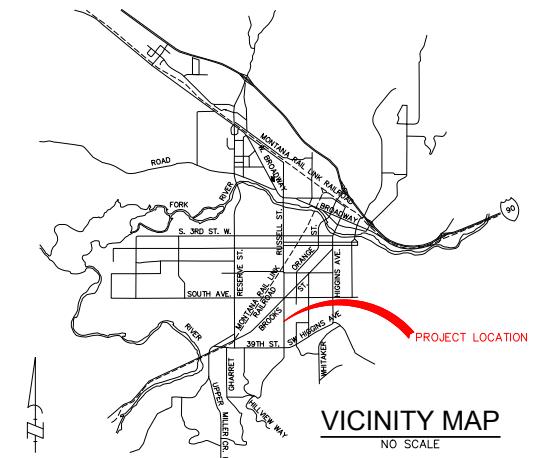
COVER SHEET
RUSSELL COMMUTER TRAIL CROSSING
MISSOULA, MONTANA

REVISIONS:
NO. DESCRIPTION DATE

PROJECT: 21-06-02
LAYOUT: C1.0
SURVEYED: WGM GROUP
DESIGN: RMS
DRAFT: DEB
APPROVE: SMM
DATE: JANUARY 23, 2023

FILE: W:\Projects\210602\CAD\Design\210602C.dwg

SHEET C1.0



GENERAL NOTES:
(CIVIL DRAWINGS)

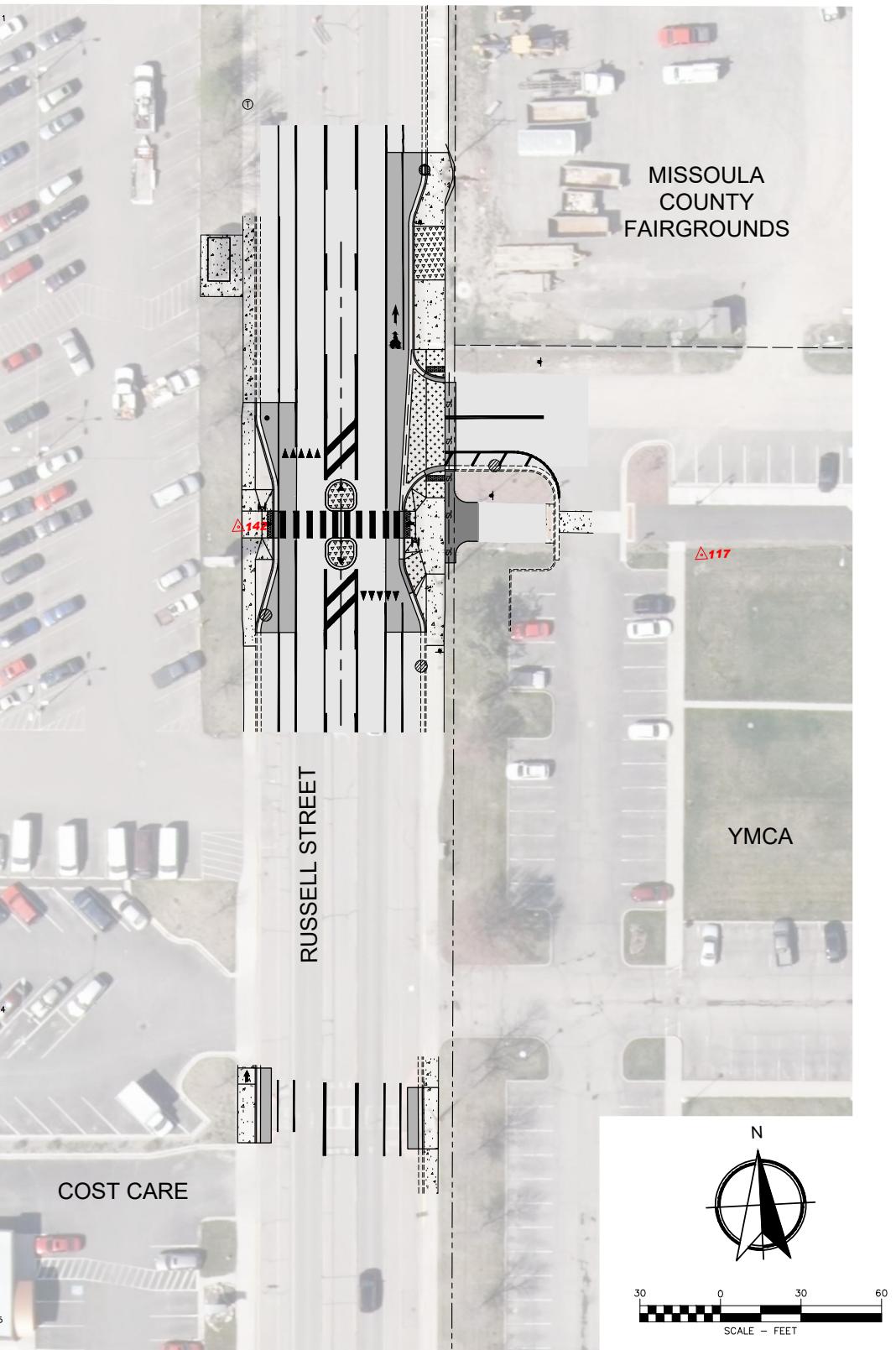
- 1) ALL WORK SHALL CONFORM TO THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, SEVENTH EDITION, 2021, AS AMENDED BY THE CITY OF MISSOULA.
- 2) CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, AND DEPTH OF ALL UTILITIES INCLUDING ALL SERVICES TO ALL PROPERTIES. THESE DRAWINGS MAY NOT SHOW ALL FACILITIES. THE DEPTHS OF ALL EXISTING UTILITIES ARE UNKNOWN. BURIED UTILITIES SHOWN ON THIS SITE ARE BASED ON AVAILABLE RECORDS AND UTILITY LOCATOR PAINT MARKS. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- 3) CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM CITY OF MISSOULA, STATE OF MONTANA, AND UTILITY COMPANIES PRIOR TO STARTING WORK.
- 4) ALL CONCRETE AREAS ARE DESIGNED TO HAVE A 1.5% MAXIMUM CROSS SLOPE UNLESS OTHERWISE SHOWN ON THE PLANS.
- 5) CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT AND BEGINNING CONSTRUCTION.
- 6) CONTRACTOR RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES, AND PROTECTING HAUL OFF/DRAG ON TO ADJACENT PARKING AREAS AND PUBLIC RIGHTS OF WAY. CONTRACTOR RESPONSIBLE FOR CLEANING ANY MATERIAL HAULED OFF/DRAG ONTO ADJACENT PARKING AREAS OR PUBLIC RIGHTS OF WAY.
- 7) GRADING AND SLOPE INFORMATION PRESENTED IN THIS PLAN SET IS BASED ON DESIGN GRADES AND BEST AVAILABLE MAPPING INFORMATION. EXISTING ELEVATIONS AT TIE IN POINT ELEVATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF EXTERIOR IMPROVEMENTS. NOTIFY ENGINEER IF DIFFERENT CONDITIONS ARE FOUND. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AND ADA COMPLIANCE FOR CONSTRUCTED IMPROVEMENTS.
- 8) THIS PLAN IS TO BE USED TO ASSIST THE CONTRACTOR IN HORIZONTAL LOCATION DURING THE STAKING AND LAYOUT. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCY BETWEEN THE GIVEN DATA AND THE INTENT SHOWN BY THE DRAWINGS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION.

SHEET INDEX

SHEET	DESCRIPTION
C1.0	CIVIL COVER SHEET
C1.1	EXISTING CONDITIONS
C1.2	EXISTING CONDITIONS
C1.3	DEMOLITION PLAN
C1.4	DEMOLITION PLAN
C2.0	SITE PLAN
C2.1	SITE PLAN
C3.0	GRADING PLAN
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C5.0	SIGNING AND STRIPING PLAN
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C6.0	EROSION CONTROL PLAN
C6.1	EROSION CONTROL PLAN
C6.2	EROSION CONTROL DETAILS

811
Know what's below,
Call before you dig.
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
UTILITY LOCATIONS.

WGM GROUP, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL) OR FOR THE EXISTENCE OF UTILITIES SHOWN ON THIS DRAWING. HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.



LEGEND-EXISTING

RIGHT-OF-WAY
LOT LINE
CONCRETE SIDEWALK
EDGE OF ASPHALT
CURB AND GUTTER
CURB AND GUTTER W/LAYDOWN
WATER MAIN
SANITARY SEWER MAIN
AERIAL POWER LINE
BURIED ELECTRIC LINE
BURIED FIBER OPTIC
GAS MAIN
FENCE
CONTOUR (HALF FOOT INTERVAL)
WATER VALVE
FIRE HYDRANT
SANITARY SEWER MANHOLE
TELEPHONE MANHOLE
BOLLARD
DRAINAGE SUMP
UTILITY POLE
LIGHT POLE
IRRIGATION CONTROL VALVE
EVERGREEN TREE (SIZE AS NOTED)
DECIDUOUS TREE (SIZE AS NOTED)
SIGN
RECTANGULAR RAPID FLASHING BEACON
CONTROL POINT

LEGEND-PROPOSED

EDGE OF ASPHALT
CURB AND GUTTER (CATCH)
CURB AND GUTTER W/LAYDOWN OPENING
VALLEY GUTTER
MEDIAN CURB
YELLOW CURB EPOXY
4" THICK CONCRETE SIDEWALK
6" THICK CONCRETE SIDEWALK
8" THICK CONCRETE SIDEWALK
ASPHALT
3" DEPTH 1-1/2" CRUSHED RIVER ROCK
CONDUIT FOR FUTURE LIGHTING
DRAINAGE INLET (AREA DRAIN)
DRAINAGE INLET (CURB BACKED LID)
SIGN
RECTANGULAR RAPID FLASHING BEACON (RRFB)
Flexible SURFACE MOUNT DELINEATOR
ADA TRUNCATED DOMES
ADA RAMP

SURVEY INFORMATION

BASIS OF BEARING:
GRID NORTH OF MONTANA STATE
PLANE COORDINATE SYSTEM NAD83(CORS96)
UNITS: INTERNATIONAL FEET

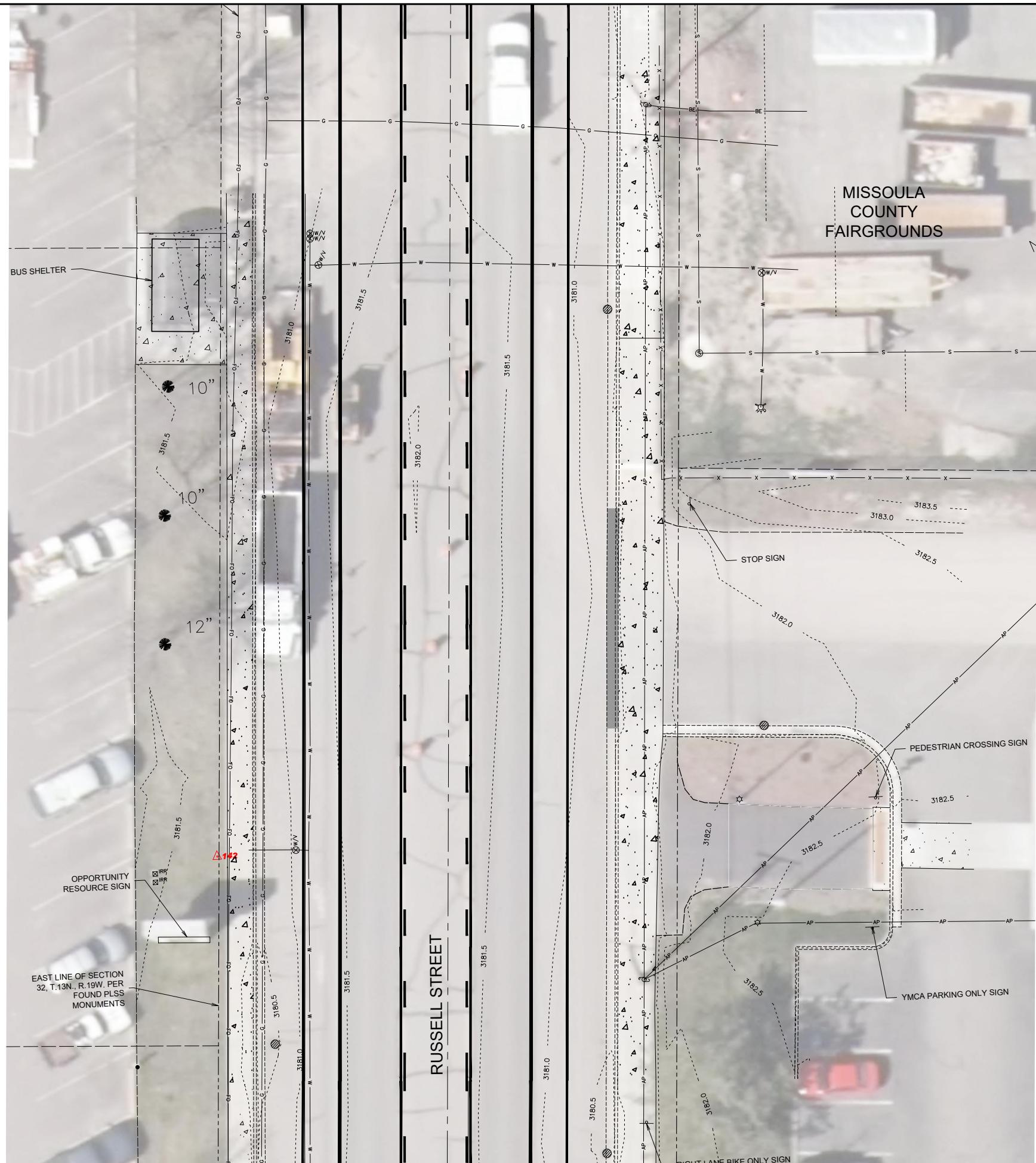
VERTICAL DATUM:
NAVD88-FROM OPUS SOLUTION
UNITS: INTERNATIONAL FEET

POINT LIST				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
13	978126.37	839396.20	3188.12	WGM OPC
117	978264.03	839231.94	3183.36	WGM OPC
118	978261.59	839549.54	3189.52	WGM OPC
142	978283.43	839060.25	3181.31	WGM OPC



RUSSELL COMMUTER TRAIL CROSSING
MISSOULA, MONTANA

EXISTING CONDITIONS



LEGEND-EXISTING

	RIGHT-OF-WAY
	LOT LINE
	CONCRETE SIDEWALK
	EDGE OF ASPHALT
	CURB AND GUTTER
	CURB AND GUTTER W/LAYDOWN
	WATER MAIN
	SANITARY SEWER MAIN
	AERIAL POWER LINE
	BURIED ELECTRIC LINE
	BURIED FIBER OPTIC
	GAS MAIN
	FENCE
	CONTOUR (HALF FOOT INTERVAL)
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE
	TELEPHONE MANHOLE
	BOLLARD
	DRAINAGE SUMP
	UTILITY POLE
	LIGHT POLE
	IRRIGATION CONTROL VALVE
	EVERGREEN TREE (SIZE AS NOTED)
	DECIDUOUS TREE (SIZE AS NOTED)
	SIGN
	RAPID REFLECTING BEACON (RRFB)
	CONTROL POINT

REVISIONS:		
NO.	DESCRIPTION	DATE

FILE: W:\Projects\210602\CAD\Data\Design\2106020M.dwg

PROJECT: 21-06-02
LAYOUT: C1.1
SURVEYED: WGM GROUP
DESIGN: RMS
DRAFT: DEB
APPROVE: SMM
DATE:

JANUARY 23, 2023

SCALE - FEET

C1.1

PRELIMINARY
PLOTTED: 1/20/23
SAVED: 1/20/23
STAGE 3 PLANS

EXISTING CONDITIONS
RUSSELL COMMUTER TRAIL CROSSING
MISSOULA, MONTANA

LEGEND-EXISTING

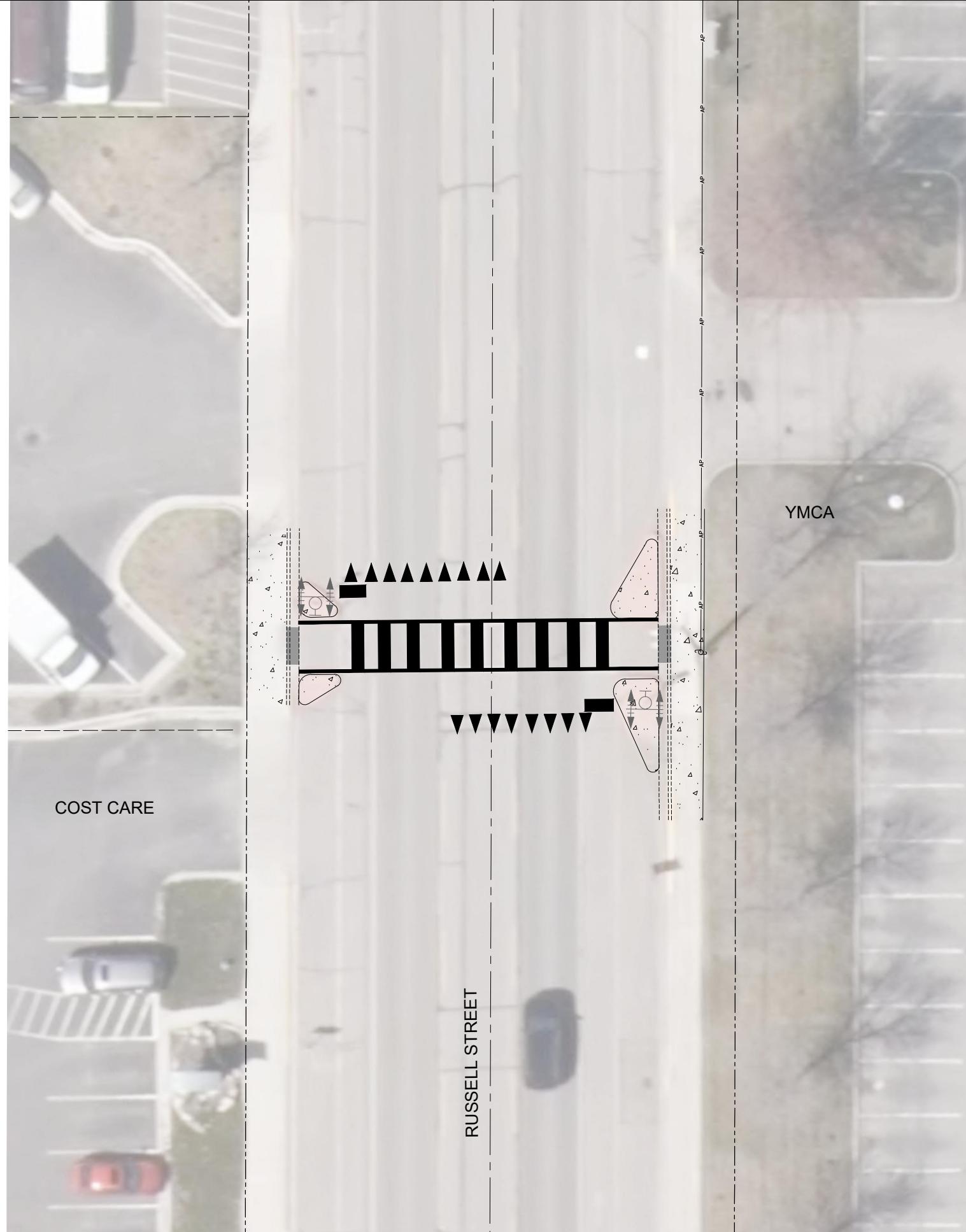
- - - - - RIGHT-OF-WAY
- - - - - LOT LINE
- - - - - CONCRETE SIDEWALK
- - - - - EDGE OF ASPHALT
- - - - - CURB AND GUTTER
- - - - - CURB AND GUTTER W/LAYDOWN
- - - - - WATER MAIN
- - - - - SANITARY SEWER MAIN
- - - - - AERIAL POWER LINE
- - - - - BURIED ELECTRIC LINE
- - - - - BURIED FIBER OPTIC
- - - - - GAS MAIN
- - - - - FENCE
- - - - - CONTOUR (HALF FOOT INTERVAL)
- ⊗ w/v WATER VALVE
- ⊗ FIRE HYDRANT
- ⊗ SANITARY SEWER MANHOLE
- ⊗ TELEPHONE MANHOLE
- BOLLARD
- ⊗ DRAINAGE SUMP
- ⊗ UTILITY POLE
- ⊗ LIGHT POLE
- ⊗ IRRIGATION CONTROL VALVE
- ⊗ EVERGREEN TREE (SIZE AS NOTED)
- ⊗ DECIDUOUS TREE (SIZE AS NOTED)
- SIGN
- ⊗ RAPID REFLECTING BEACON (RRFB)
- CONTROL POINT

REVISIONS:
NO. DESCRIPTION DATE

PROJECT: 21-06-02
LAYOUT: C1.2
SURVEYED: WGM GROUP
DESIGN: RMS
DRAFT: DEB
APPROVE: SMM
DATE:
FILE: W:\Projects\210602\CAD\Date\Design\210602DM.dwg

JANUARY 23, 2023

SHEET C1.2





WGM GROUP
WWW.WGMGROUP.COM

PRELIMINARY
PLOTTED: 1/20/23
SAVED: 1/20/23
STAGE 3 PLANS

RUSSELL COMMUTER TRAIL CROSSING

MISSOULA, MONTANA

LEGEND-DEMOLITION

The diagram consists of four horizontal rows, each with a colored line icon and a text label. The first row has a purple line icon and the label 'ASPHALT SAW CUT LINE'. The second row has an orange line icon with diagonal hatching and the label 'ASPHALT REMOVAL AREA'. The third row has a red line icon with cross-hatching and the label 'CONCRETE REMOVAL AREA'. The fourth row has a blue line icon with a wavy pattern and the label 'CURB REMOVAL'.

GENERAL NOTES:

NOT ALL EXISTING SITE CONSTRUCTION AND ELEMENTS ARE SHOWN ON DRAWING. CONTRACTOR TO VISIT SITE AND FAMILIARIZE THEMSELVES WITH NEW CONSTRUCTION PLANS FOR ALL REQUIRED DEMOLITION. DRAWINGS ARE DIAGRAMMATIC.

ALL DEMOLISHED/REMOVED MATERIAL AND EXCESS EXCAVATED MATERIAL NOT DESIGNATED FOR RE-USE OR SALVAGE SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR.

STRIP TOPSOIL AS NEEDED IN AREAS WHERE PAVEMENT OR SIDEWALK IS PROPOSED. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES. CONTRACTOR RESPONSIBLE FOR FULL DEPTH OF STRIPPING. ANY EXCESS TOPSOIL THAT IS NOT USED IN PROPOSED LANDSCAPING SHALL BE DISPOSED OF OFF SITE. TOPSOIL NEEDED FOR IMPROVEMENTS ON-SITE SHALL BE RETAINED FROM STRIPPED TOPSOIL AND STOCKPILED ON-SITE UNTIL FINAL PLACEMENT IN LANDSCAPING AREAS.

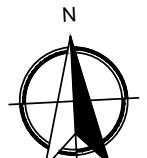
DEMOLITION NOTES:

- 1 PROTECT EXISTING SIDEWALK
- 2 PROTECT EXISTING CURB
- 3 PROTECT EXISTING UTILITY
- 4 PROTECT EXISTING SUMP, INLET OR MANHOLE
- 5 PROTECT EXISTING TREE
- 6 PROTECT EXISTING SIGN
- 7 PROTECT EXISTING LUMINAIRE
- 8 PROTECT EXISTING POWER POLE
- 9 PROTECT EXISTING FIRE HYDRANT
- 10 RELOCATE UTILITY POLE. CITY OF MISSOULA TO COORDINATE WITH NORTHWESTERN ENERGY
- 11 REMOVE EXISTING PAVEMENT MARKINGS. REMOVAL METHOD TO BE APPROVED BY THE ENGINEER.
- 12 REMOVE AND RESET CHAIN LINK FENCE. PLACE NEW FENCE POSTS BEHIND PROPOSED SIDEWALK.
- 13 REMOVE CONCRETE MEDIAN. DISPOSE OF OFFSITE
- 14 REMOVE EXISTING SIGN POST AND RAPID RECTANGULAR FLASHING BEACON FOR RELOCATION TO RUSSELL COMMUTER TRAIL CROSSING. COORDINATE WITH THE CITY OF MISSOULA PRIOR TO REMOVAL.
- 15 REMOVE EXISTING SIDEWALK RAMPS AND CURB LAYDOWN. RECONSTRUCT CURB AND SIDEWALK TO FULL HEIGHT ELEVATION.
- 16 PROTECT EXISTING FENCE
- 17 REMOVE SUMP AND SUMP ROCK. BACKFILL IN 1.0' LIFTS WITH SUITABLE BACKFILL MATERIAL AND COMPACT TO 90% PROCTOR DENSITY

REVISIONS:		
NO.	DESCRIPTION	DATE

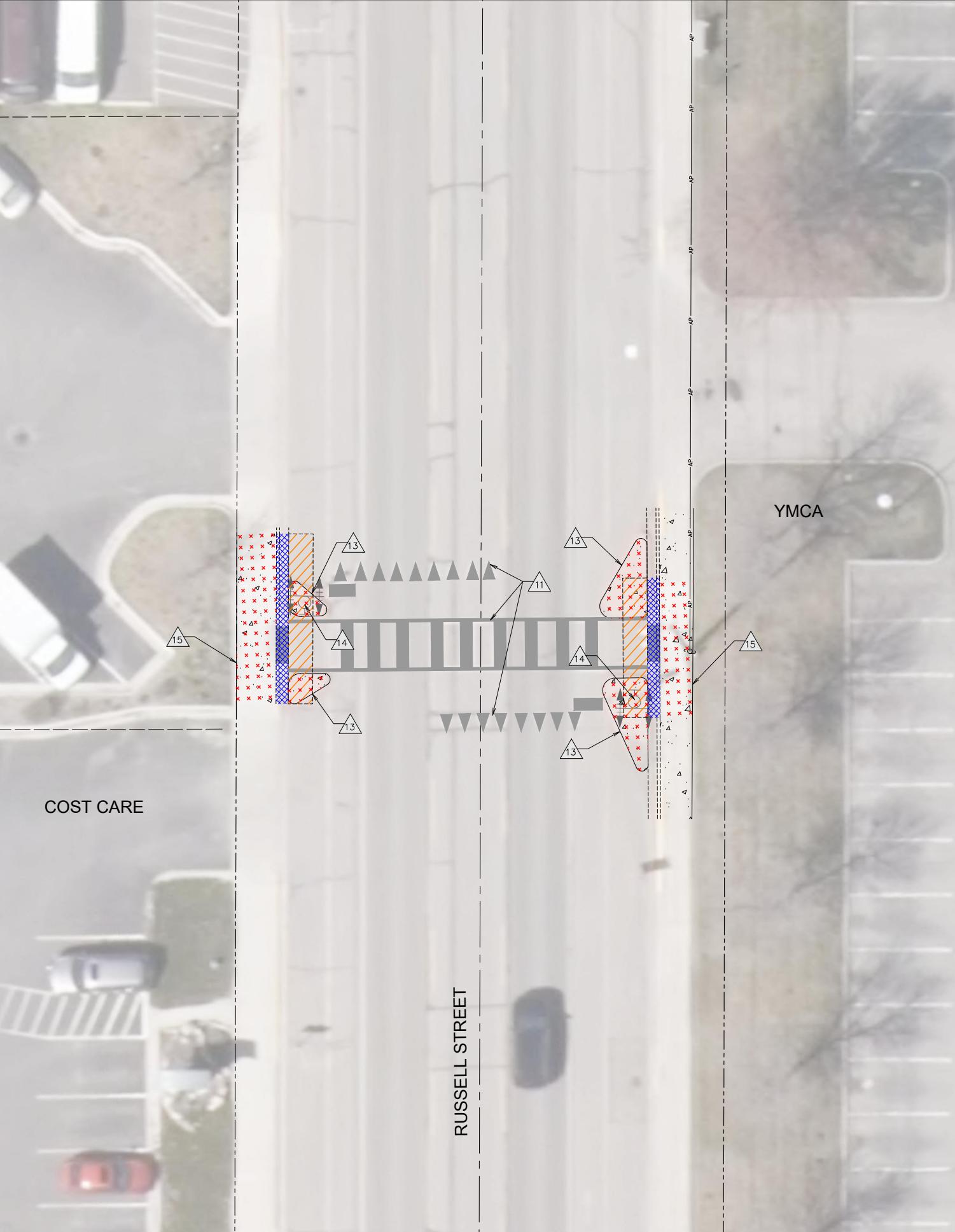
PROJECT: 21-06-02
LAYOUT: C1.3
SURVEYED: WGM GROUP
DESIGN: RMS
DRAFT: DEB
APPROVE: SMM
DATE:

DATE: JANUARY 23, 2023



A scale bar consisting of a horizontal line with tick marks. The left tick is labeled '10' above the line. The center tick is labeled '0' above the line. The right tick is labeled '10' above the line. Below the line, the text 'SCALE - FEET' is centered.

SHEET



LEGEND-DEMOLITION

- ASPHALT SAW CUT LINE
- ASPHALT REMOVAL AREA
- CONCRETE REMOVAL AREA
- CURB REMOVAL

GENERAL NOTES:

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DEMOLITION NOTES:

- 1 PROTECT EXISTING SIDEWALK
- 2 PROTECT EXISTING CURB
- 3 PROTECT EXISTING UTILITY
- 4 PROTECT EXISTING SUMP, INLET OR MANHOLE
- 5 PROTECT EXISTING TREE
- 6 PROTECT EXISTING SIGN
- 7 PROTECT EXISTING LUMINAIRE
- 8 PROTECT EXISTING POWER POLE
- 9 PROTECT EXISTING FIRE HYDRANT
- 10 RELOCATE UTILITY POLE, CITY OF MISSOULA TO COORDINATE WITH NORTHWESTERN ENERGY
- 11 REMOVE EXISTING PAVEMENT MARKINGS. REMOVAL METHOD TO BE APPROVED BY THE ENGINEER.
- 12 REMOVE AND RESET CHAIN LINK FENCE. PLACE NEW FENCE POSTS BEHIND PROPOSED SIDEWALK.
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- 16 PROTECT EXISTING FENCE
- 17 REMOVE SUMP AND SUMP ROCK. BACKFILL IN 1.0' LIFTS WITH SUITABLE BACKFILL MATERIAL AND COMPACT TO 99% PROCTOR DENSITY.

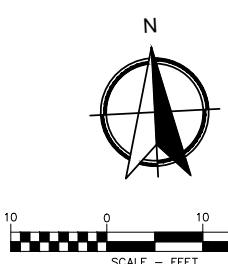
REVISIONS:		
NO.	DESCRIPTION	DATE

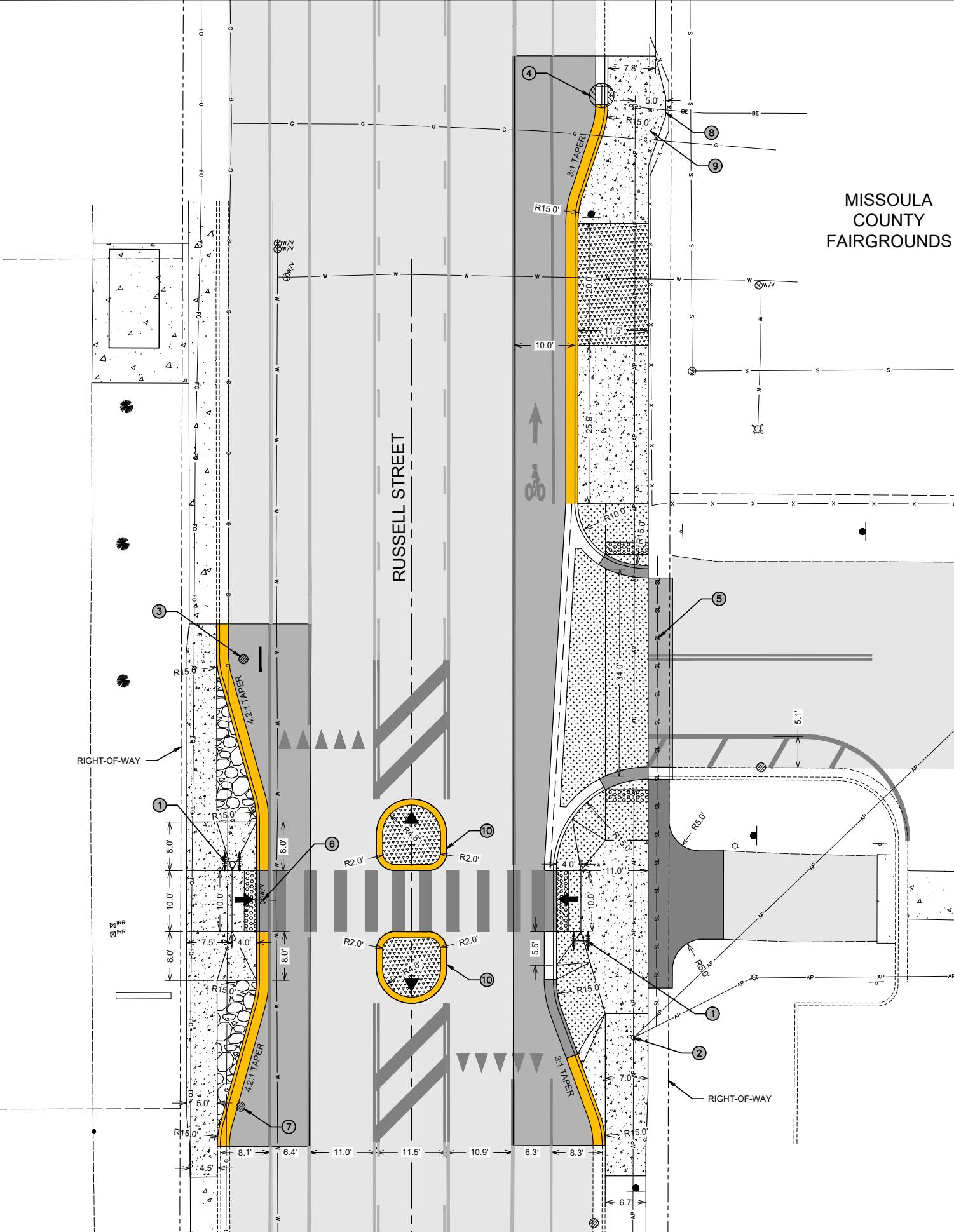
PROJECT: 21-06-02
LAYOUT: C1.4
SURVEYED: WGM GROUP
DESIGN: RMS
DRAFT: DEB
APPROVE: SMM
DATE:

JANUARY 23, 2023

SHEET C1.4

FILE: W:\Projects\210602\CAD\Drawings\210602DM.dwg





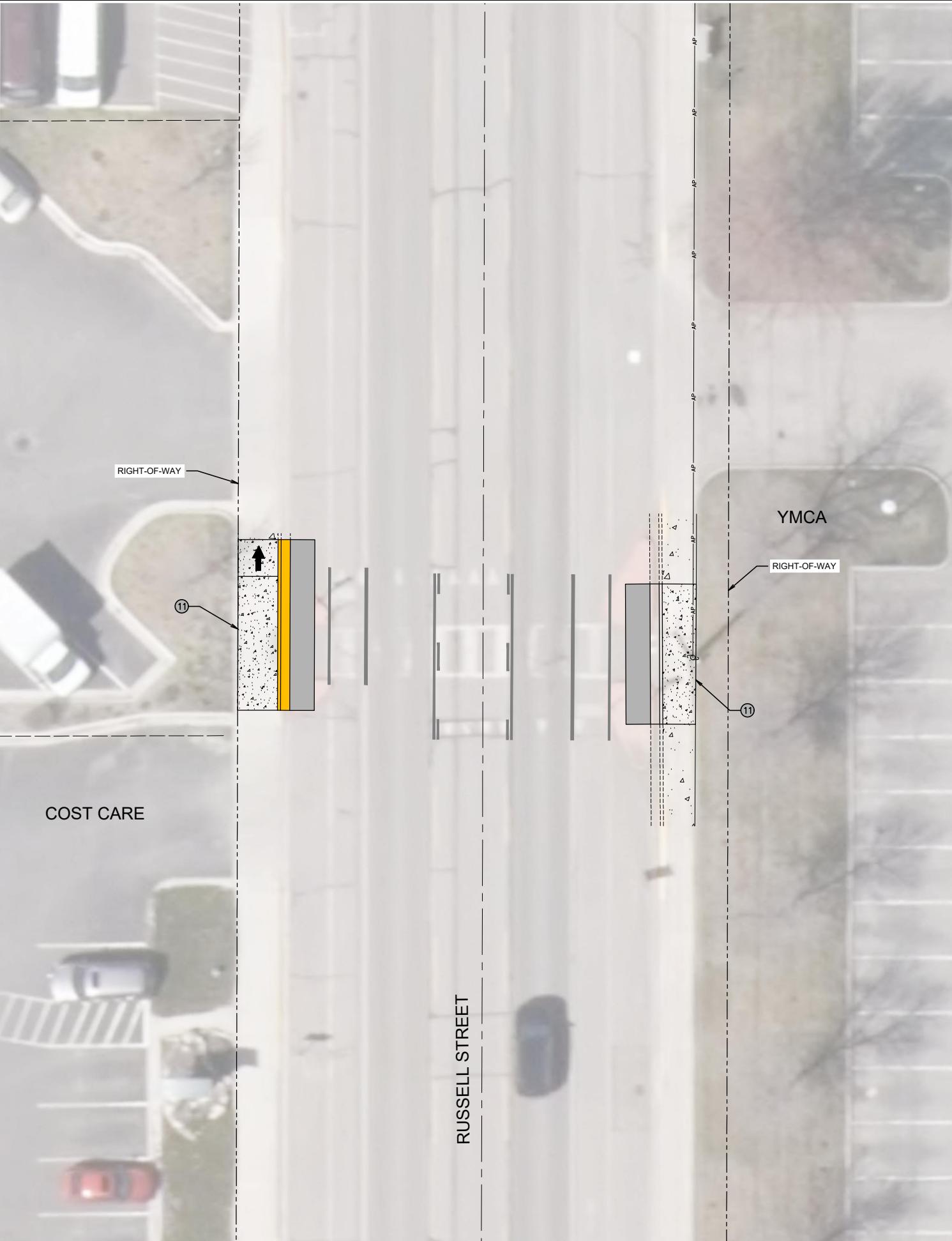
LEGEND-PROPOSED	DETAIL INDEX
CURB AND GUTTER (CATCH)	2 C4.0
VALLEY GUTTER	8 C4.0
MEDIAN CURB	1 C4.1
CURB EPOXY	
CURB AND GUTTER W/LAYDOWN OPENING	3 C4.0
4" THICK CONCRETE SIDEWALK	6 C4.0
6" THICK CONCRETE SIDEWALK	
8" THICK CONCRETE SIDEWALK	
ASPHALT	SEE SHEET C4.2 FOR ROAD TYPICAL SECTION
SHARED-USE PATH SECTION	2 C4.1
PARKING LOT ASPHALT SECTION	3 C4.1
DRAINAGE INLET (AREA DRAIN)	8 C4.1
DRAINAGE INLET (CURB BACKED)	
3" DEPTH 1-1/2" CRUSHED RIVER ROCK	
CONDUIT FOR FUTURE LIGHTING	
SIGN	
RECTANGULAR RAPID FLASHING BEACON (RRFB)	
► FLEXIBLE SURFACE MOUNT DELINEATOR	
■ ADA DETECTABLE WARNING DEVICE	
► ADA RAMP	
MISC DETAILS	
1 C4.0	DETECTABLE WARNING PANEL
3 C4.0	CURB RAMP DETAILS
5 C4.0	ASPHALT CUTTING, REMOVAL, AND REPLACEMENT

KEY NOTES:

- ① INSTALL NEW SIGN POST FOR RELOCATED RECTANGULAR RAPID FLASHING BEACON (RRFB) FROM YMCA CROSSING. RELOCATION OF RRFB WILL BE BY OTHERS. REFER TO SHEET C5.0-C5.1 FOR MORE INFORMATION.
- ② CITY OF MISSOULA TO COORDINATE WITH NORTHWESTERN ENERGY FOR UTILITY POLE RELOCATION.
- ③ INSTALL 8' DEEP SUMP APPROXIMATELY 2.5' ON CENTER FROM ADJACENT GAS LINE. ROTATE CONE OF SUMP STRUCTURE AWAY FROM GAS LINE. CONNECT INSTALL BLUE BOARD EAST OF SUMP TO CREATE BARRIER BETWEEN SUMP AND WATER MAIN TO EAST.
- ④ INSTALL 8' DEEP SUMP. ROTATE CONE OF SUMP STRUCTURE AWAY FROM UTILITY POLE WITHIN SIDEWALK. COORDINATE WITH NORTHWESTERN ENERGY TO BRACE POLE DURING CONSTRUCTION.
- ⑤ INSTALL 4" SCHEDULE 40 PVC CONDUIT FOR FUTURE LIGHTING.
- ⑥ ADJUST WATER VALVE TO FINISHED GRADE.
- ⑦ ADJUST EXISTING SUMP ELEVATION TO FINISHED GRADE. WARP ADJACENT ASPHALT TO ENSURE POSITIVE DRAINAGE TO SUMP FROM EXISTING CURB TO THE SOUTH OF PROPOSED IMPROVEMENTS.
- ⑧ ENSURE 4' WIDE ACCESSIBLE ROUTE ADJACENT TO EXISTING UTILITY POLE.
- ⑨ ADJUST CHAIN LINK FENCE ROUTING AROUND SIDEWALK IMPACTS.
- ⑩ INSTALL CONCRETE MEDIAN CURB ON TOP OF EXISTING ASPHALT. REFER TO CONCRETE MEDIAN CURB DETAIL ON SHEET C4.1 FOR INSTALLATION.
- ⑪ CONTRACTOR TO FIELD FIT INSTALLATION OF FULL HEIGHT CURB AND SIDEWALK THROUGH CURB AND SIDEWALK REPLACEMENT AREA. ENSURE SIDEWALK HAS POSITIVE DRAINAGE AND CROSS SLOPE DOES NOT EXCEED 2%. SIDEWALK RAMP SHALL NOT EXCEED 8% RUNNING SLOPE.


 10 0 10 20
 SCALE - FEET

 PROJECT: 21-06-02
 LAYOUT: C2.0
 SURVEYED: WGM GROUP
 DESIGN: RMS
 DRAFT: DEB
 APPROVE: SMM
 DATE:
 FILE: W:\Projects\210602\CAD\Data\Design\210602SP.dwg
 JANUARY 23, 2023
 SHEET C2.0

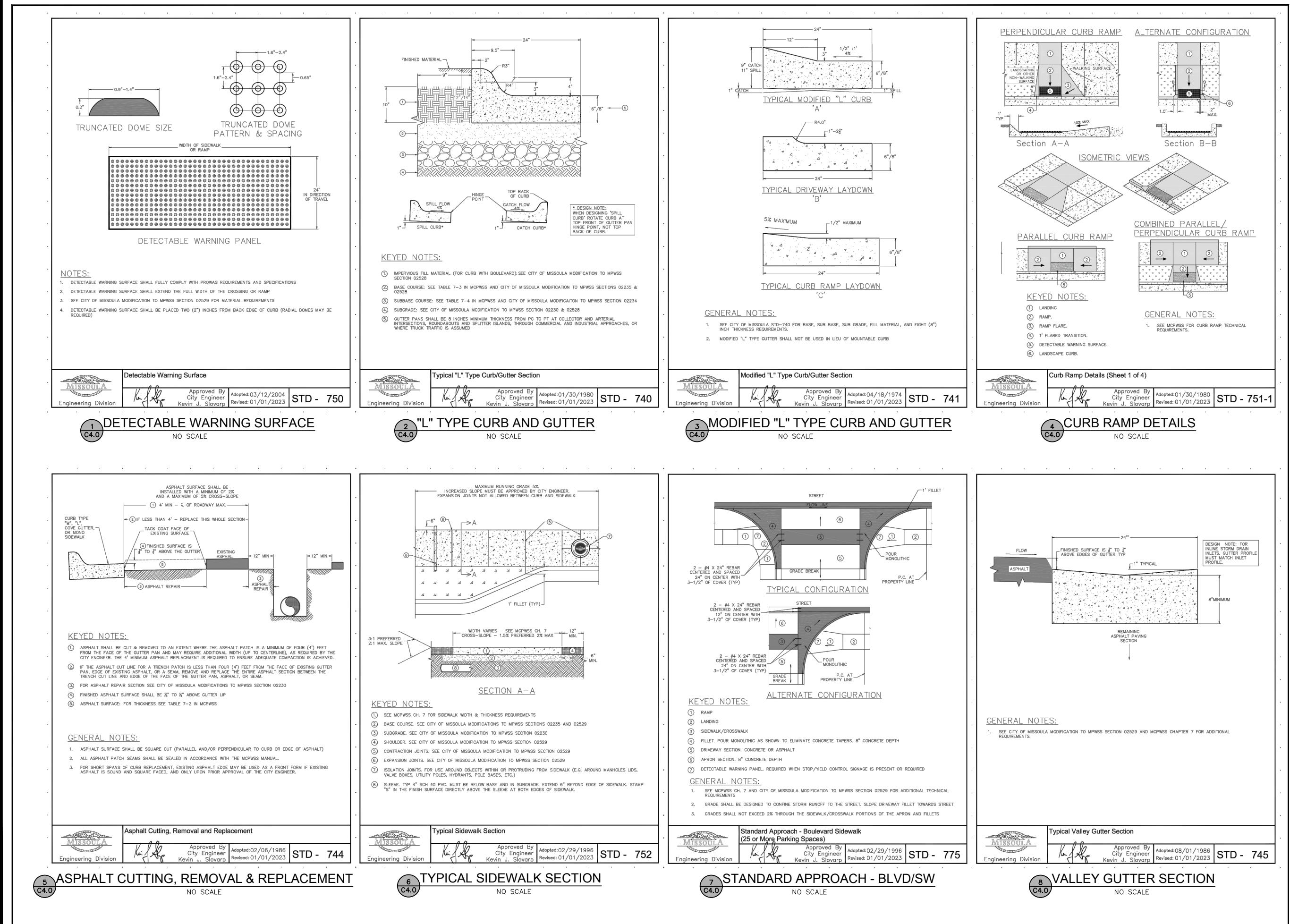


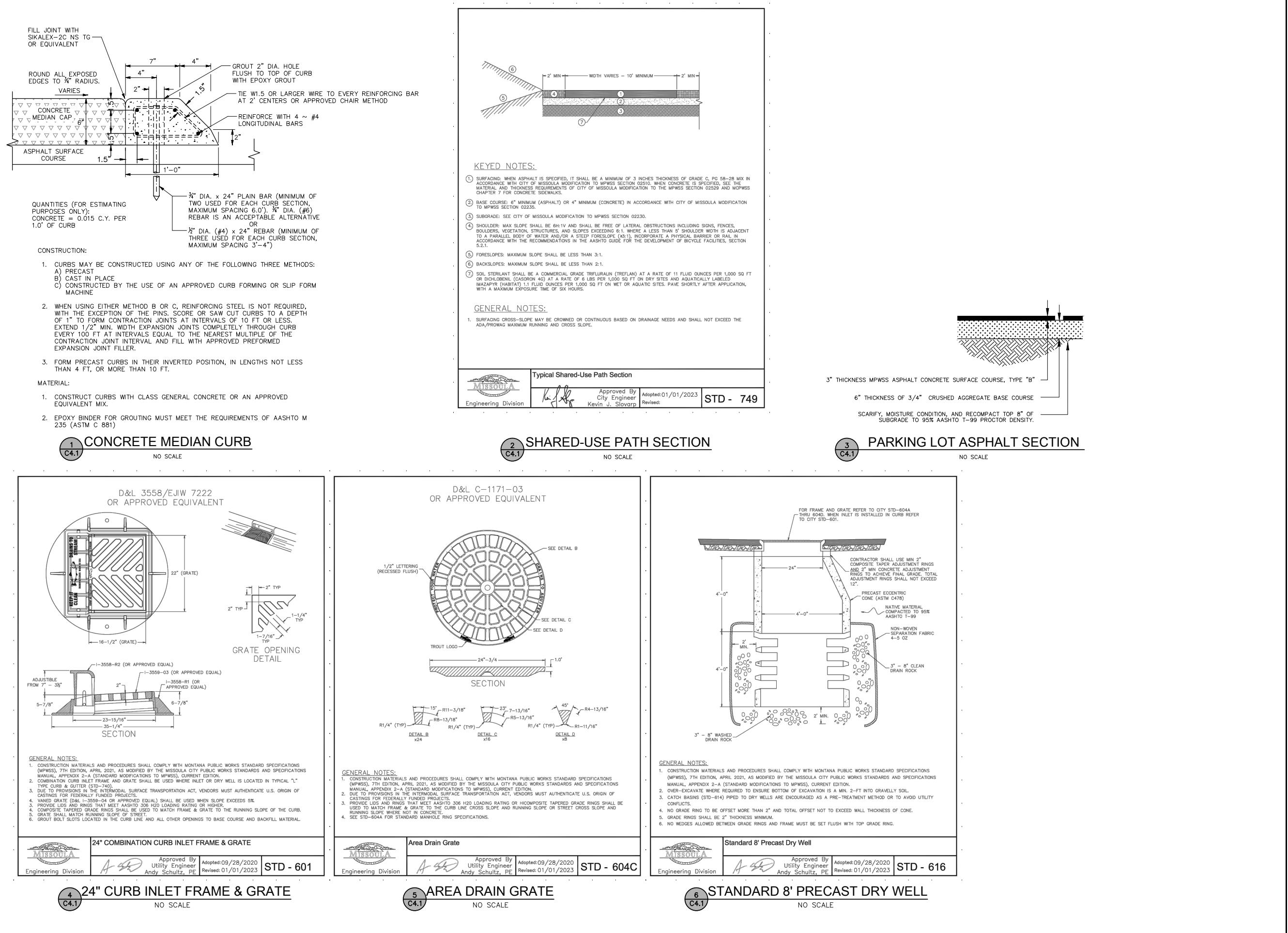
LEGEND-PROPOSED	DETAIL INDEX
— Curb and Gutter (Catch)	2 C4.0 TYPICAL "L" TYPE CURB/GUTTER
— Valley Gutter	8 C4.0 TYPICAL 2' VALLEY GUTTER
— Median Curb	1 C4.1 CONCRETE MEDIAN CURB
— Curb Epoxy	
— Curb and Gutter w/Laydown Opening	3 C4.0 MODIFIED "L" TYPE CURB/GUTTER
4" Thick Concrete Sidewalk	6 C4.0 TYPICAL SIDEWALK SECTION
6" Thick Concrete Sidewalk	
8" Thick Concrete Sidewalk	
— Asphalt	SEE SHEET C4.2 FOR ROAD TYPICAL SECTION 2 C4.1 SHARED-USE PATH SECTION 3 C4.1 PARKING LOT ASPHALT SECTION
● Drainage Inlet (Area Drain)	8 C4.1 8' SUMP DETAIL
● Drainage Inlet (Curb Backed)	
— 3" Depth 1-1/2" Crushed River Rock	
— SL SL SL	
— Conduit for Future Lighting	
— Sign	1 C4.0 DETECTABLE WARNING PANEL
— Rectangular Rapid Flashing Beacon (RRFB)	3 C4.0 CURB RAMP DETAILS
▲ Flexible Surface Mount Delineator	
— ADA Detectable Warning Device	5 C4.0 ASPHALT CUTTING, REMOVAL, AND REPLACEMENT
→ ADA Ramp	

KEY NOTES:

- ① INSTALL NEW SIGN POST FOR RELOCATED RECTANGULAR RAPID FLASHING BEACON (RRFB) FROM YMCA CROSSING. RELOCATION OF RRFB WILL BE BY OTHERS. REFER TO SHEET C5.0-C5.1 FOR MORE INFORMATION.
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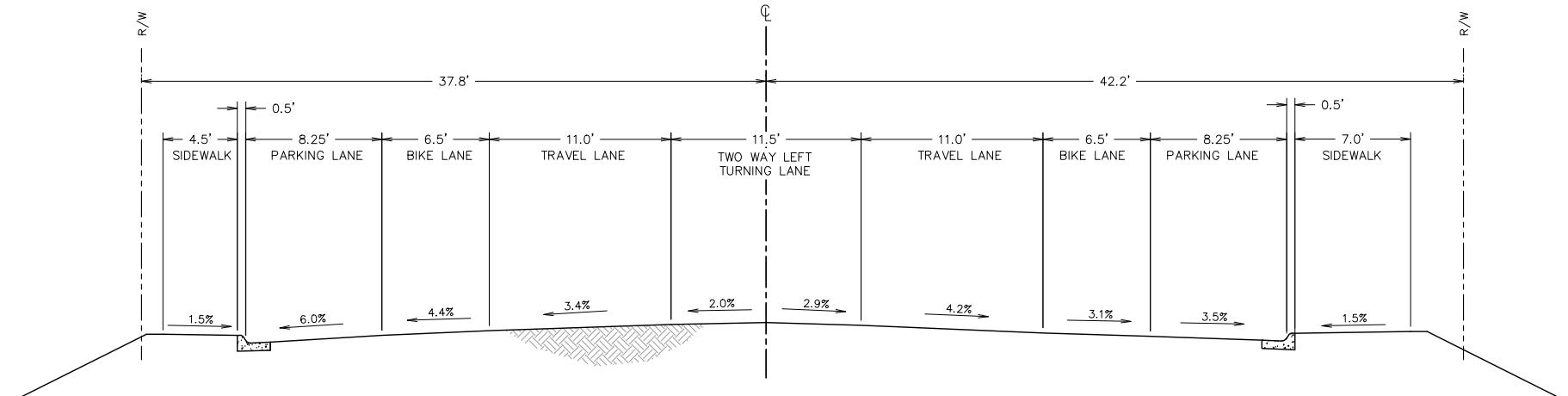




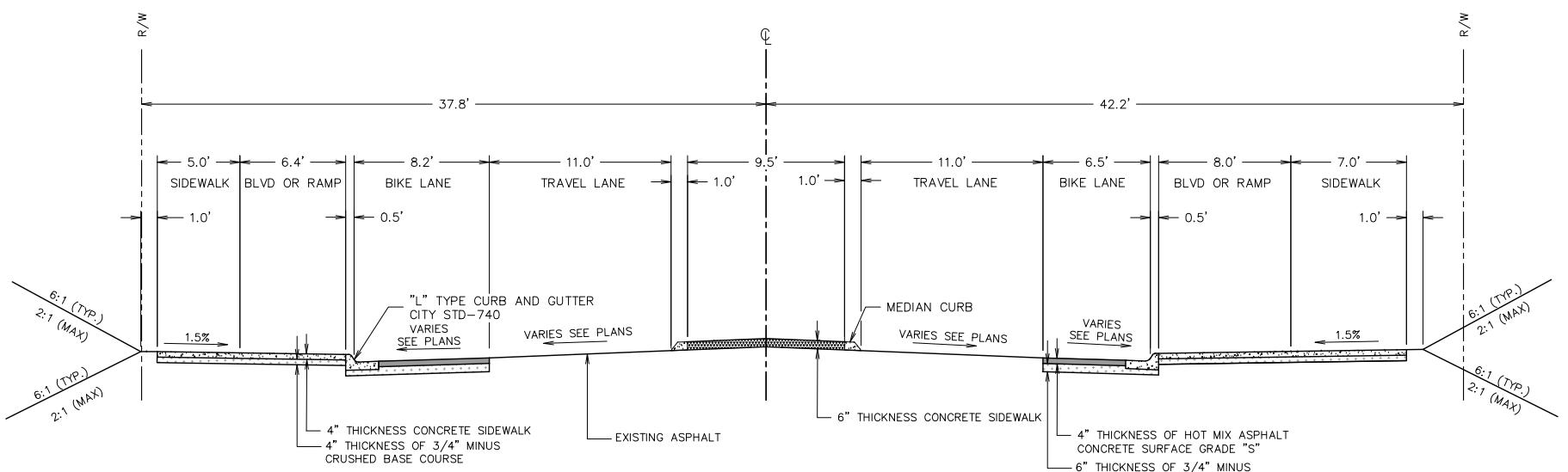


HEET

C4.1



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

NOTE: TYPICAL SECTION REPRESENTS GENERAL STREET WIDTHS AND CONDITIONS. STREET AND SIDEWALK WIDTHS AND GRADES WILL VARY THROUGH RECONSTRUCTION AREA.

REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 21-06-02
LAYOUT: C4.2
SURVEYED: WGM GROUP
DESIGN: RMS
DRAFT: DEB
APPROVE: SMM
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JANUARY 23, 2023

SIGNING AND STRIPING PLAN
RUSSELL COMMUTER TRAIL CROSSING
MISSOULA, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

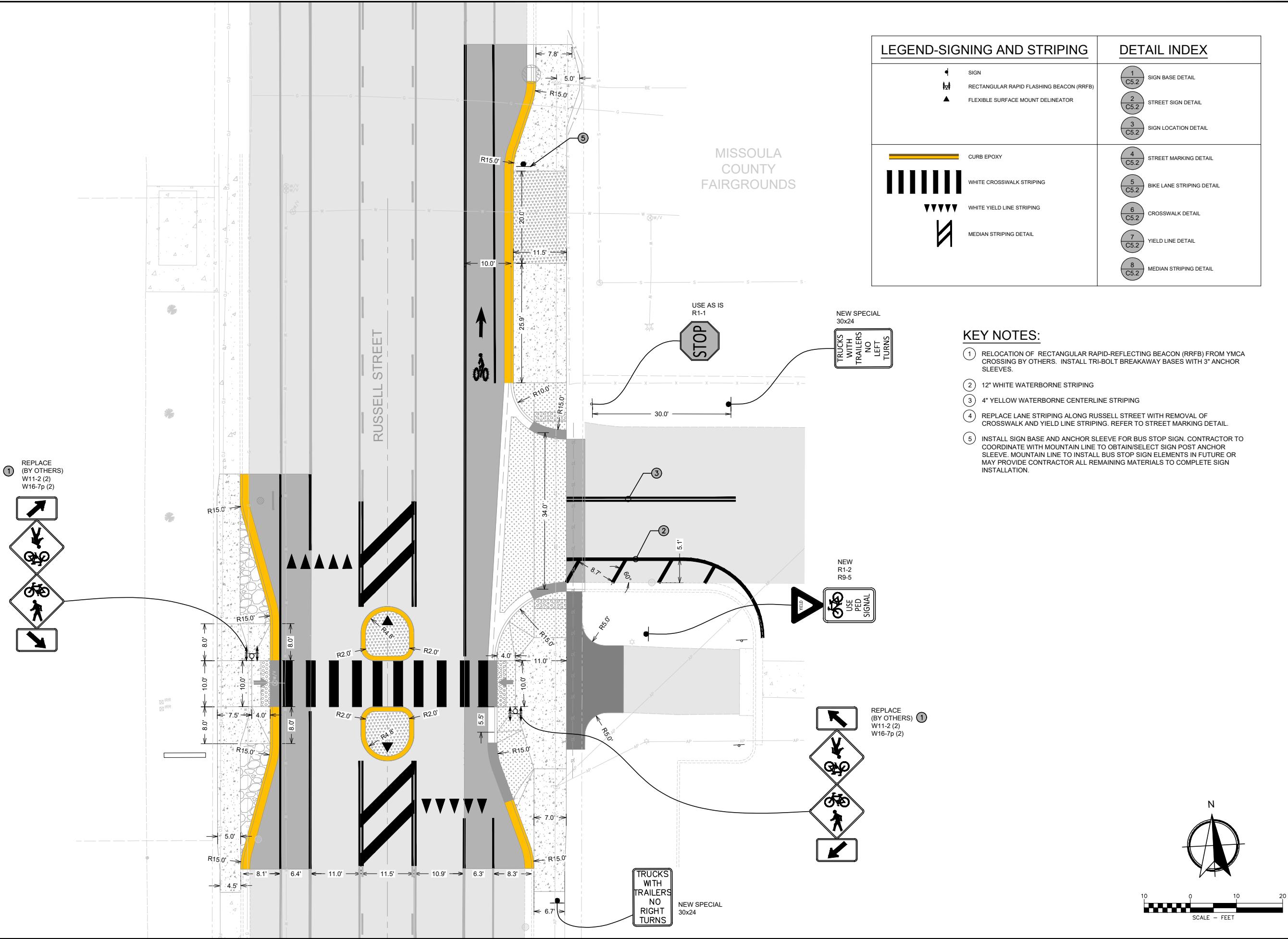
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PROJECT: 21-06-02
LAYOUT: C2.0
SURVEYED: WGM GROUP
DESIGN: RMS
DRAFT: DEB
APPROVE: SMM
DATE:

JANUARY 23, 2023

FILE: W:\Projects\210602\CAD\Date\Design\210602SN.dwg

SHEET C5.0



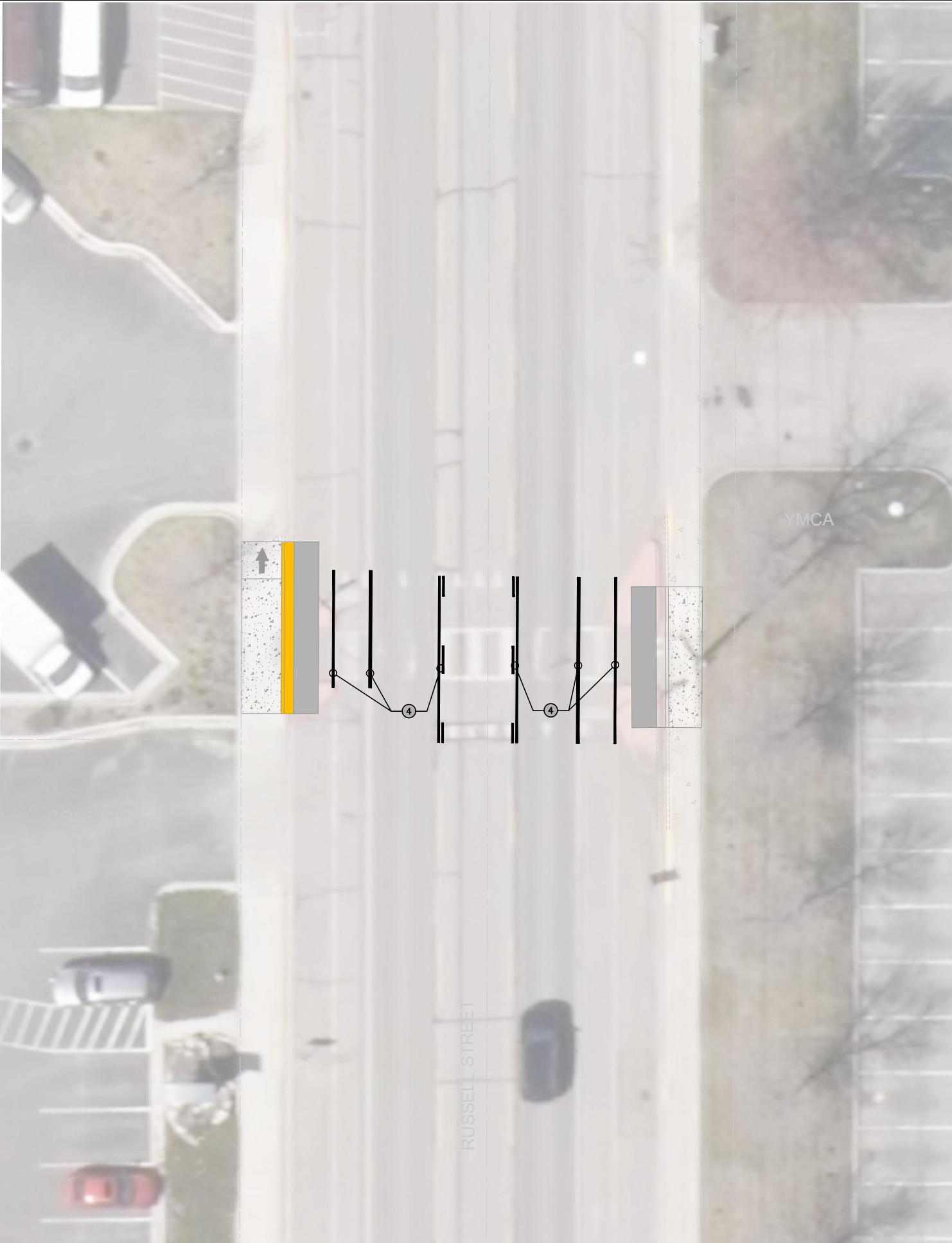
SIGNING AND STRIPING PLAN
RUSSELL COMMUTER TRAIL CROSSING
MISSOULA, MONTANA

REVISIONS:
NO. DESCRIPTION DATE

PROJECT: 21-06-02
LAYOUT: C2.1
SURVEYED: WGM GROUP
DESIGN: RMS
DRAFT: DEB
APPROVE: SMM
DATE:
JANUARY 23, 2023

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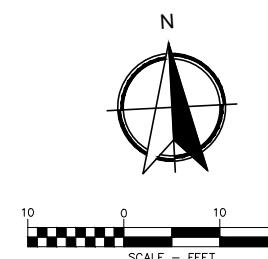
SHEET C5.1



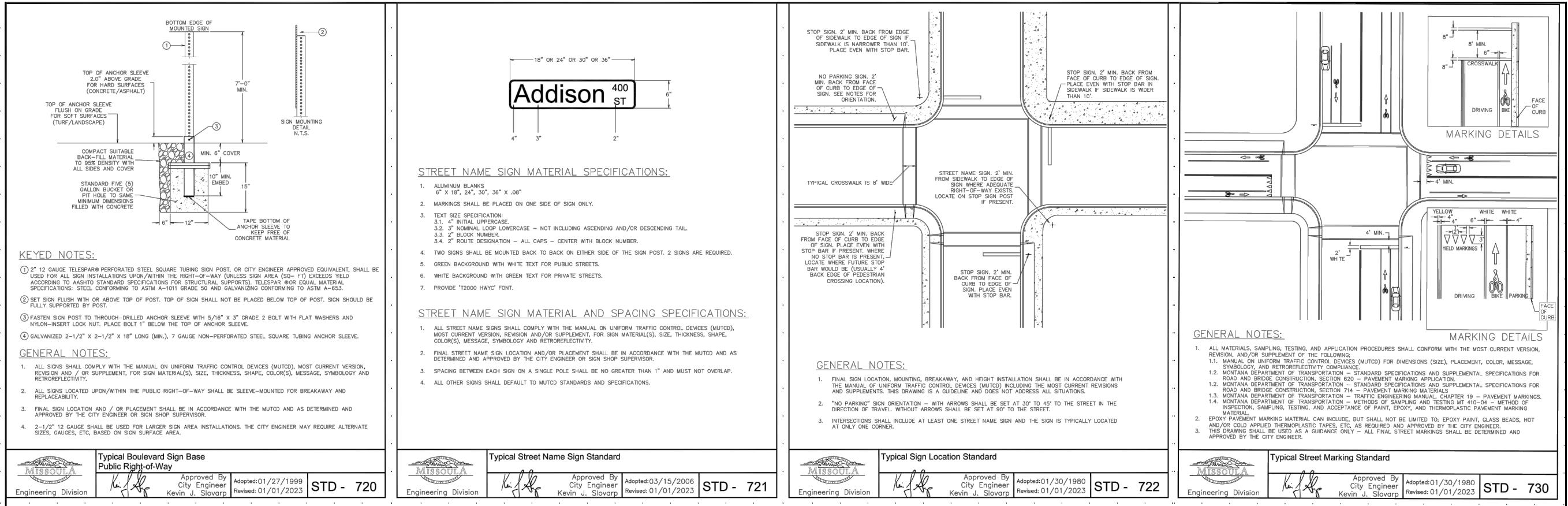
LEGEND-SIGNING AND STRIPING	DETAIL INDEX
SIGN	1 SIGN BASE DETAIL C5.2
RECTANGULAR RAPID FLASHING BEACON (RRFB)	2 STREET SIGN DETAIL C5.2
► FLEXIBLE SURFACE MOUNT DELINEATOR	3 SIGN LOCATION DETAIL C5.2
 CURB EPOXY	4 STREET MARKING DETAIL C5.2
 WHITE CROSSWALK STRIPING	5 BIKE LANE STRIPING DETAIL C5.2
 WHITE YIELD LINE STRIPING	6 CROSSWALK DETAIL C5.2
 MEDIAN STRIPING DETAIL	7 YIELD LINE DETAIL C5.2
	8 MEDIAN STRIPING DETAIL C5.2

KEY NOTES:

- ① RELOCATION OF RECTANGULAR RAPID-REFLECTING BEACON (RRFB) FROM YMCA CROSSING BY OTHERS. INSTALL TRI-BOLT BREAKAWAY BASES WITH 3" ANCHOR SLEEVES.
- ② 12" WHITE WATERBORNE STRIPING
- ③ 4" YELLOW WATERBORNE CENTERLINE STRIPING
- ④ REPLACE LANE STRIPING ALONG RUSSELL STREET WITH REMOVAL OF CROSSWALK AND YIELD LINE STRIPING. REFER TO STREET MARKING DETAIL.
- ⑤ INSTALL SIGN BASE AND ANCHOR SLEEVE FOR BUS STOP SIGN. CONTRACTOR TO COORDINATE WITH MOUNTAIN LINE TO OBTAIN/SELECT SIGN POST ANCHOR SLEEVE. MOUNTAIN LINE TO INSTALL BUS STOP SIGN ELEMENTS IN FUTURE OR MAY PROVIDE CONTRACTOR ALL REMAINING MATERIALS TO COMPLETE SIGN INSTALLATION.

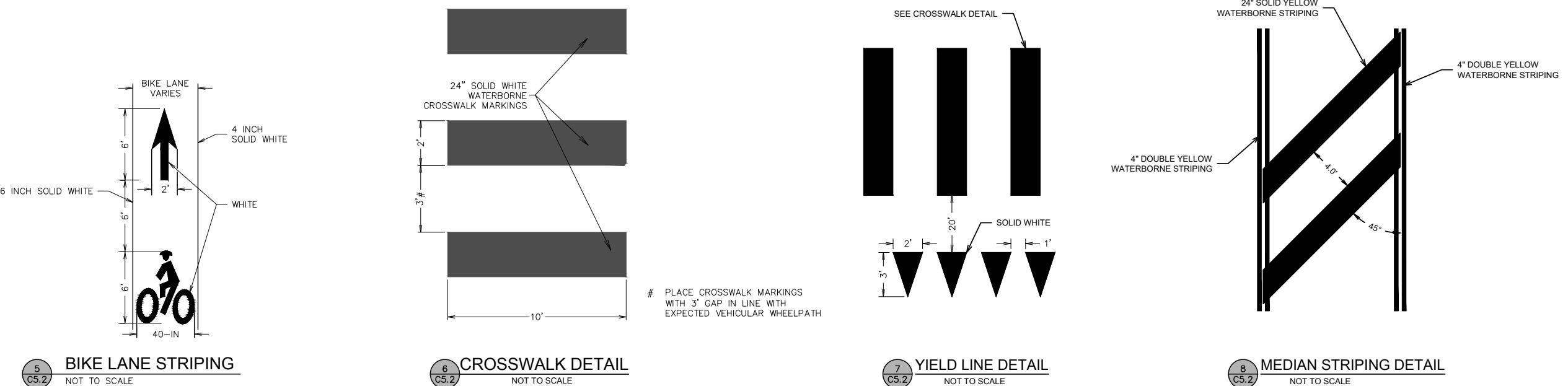


SIGNING AND STRIPING DETAILS



NOTES

1. PROVIDE INTERIM AND FINAL PAVEMENT MARKINGS IN ACCORDANCE WITH MUTCD (2009 EDITION).
2. COMPLETELY REMOVE ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THE STRIPING SHOWN ON THESE PLANS. REMOVAL METHOD TO BE APPROVED BY THE ENGINEER.
3. NEW SIGN PANELS SHALL BE SHEET ALUMINUM TYPE IV HIGH INTENSITY REFLECTIVE SHEETING FOR THE BACKGROUND, LEGEND AND BORDER AND GUIDE SIGNS SHALL REQUIRE TYPE IX HIGH INTENSITY SHEETING FOR THE LEGEND AND BORDER.
4. SIGN LEGEND AND BACKGROUND COLORS SHALL BE IN ACCORDANCE WITH THE MUTCD (2009 EDITION).
5. PROVIDE A MINIMUM OF 5 DAYS ADVANCE NOTICE TO THE ENGINEER WHEN SIGNS WILL BE FIELD LOCATED AND WHEN SIGNS WILL BE INSTALLED.
6. SIGN MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO CITY OF MISSOULA REQUIREMENTS.
7. PROVIDE SIGNS TO THE DIMENSIONS SHOWN.

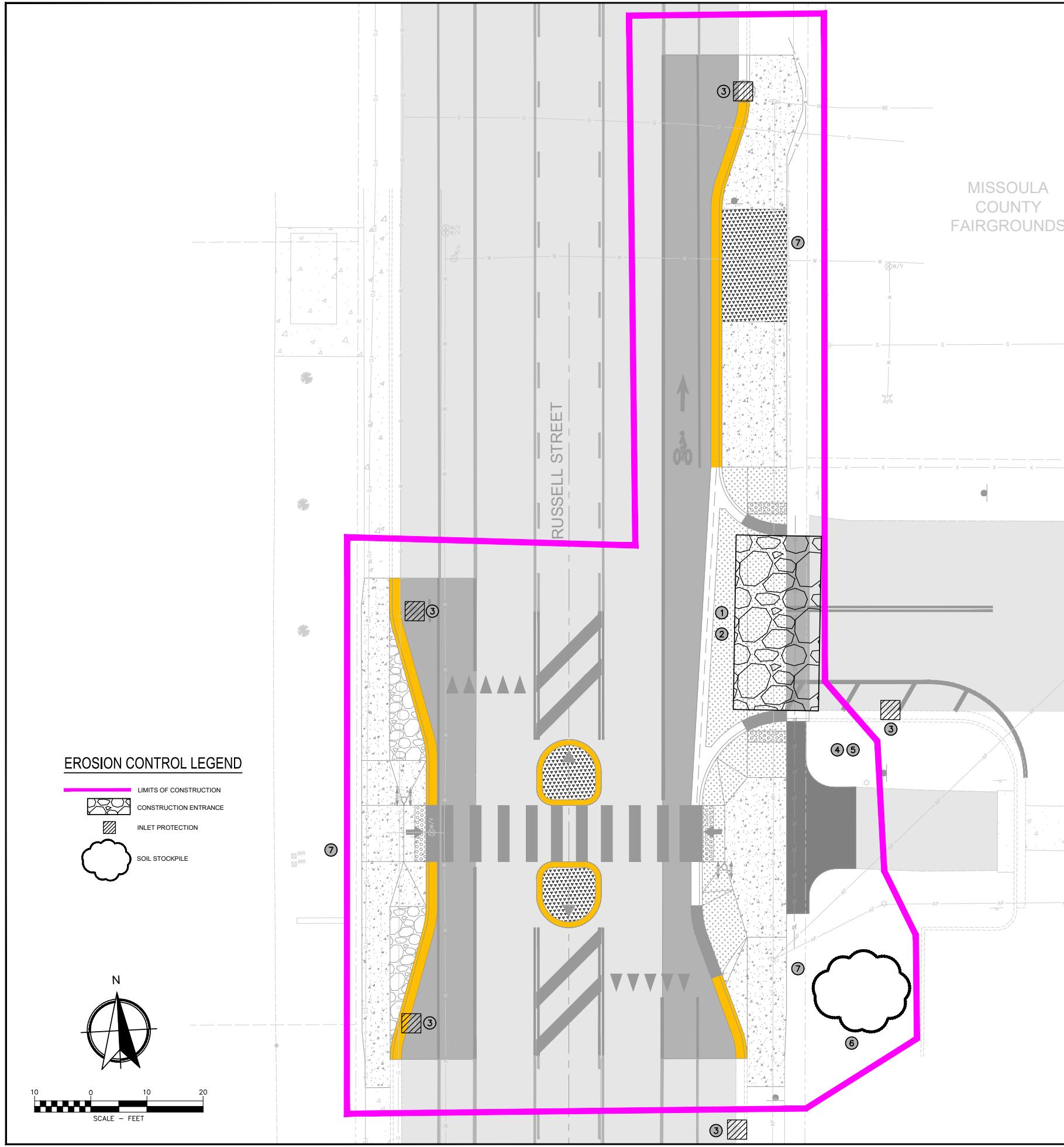


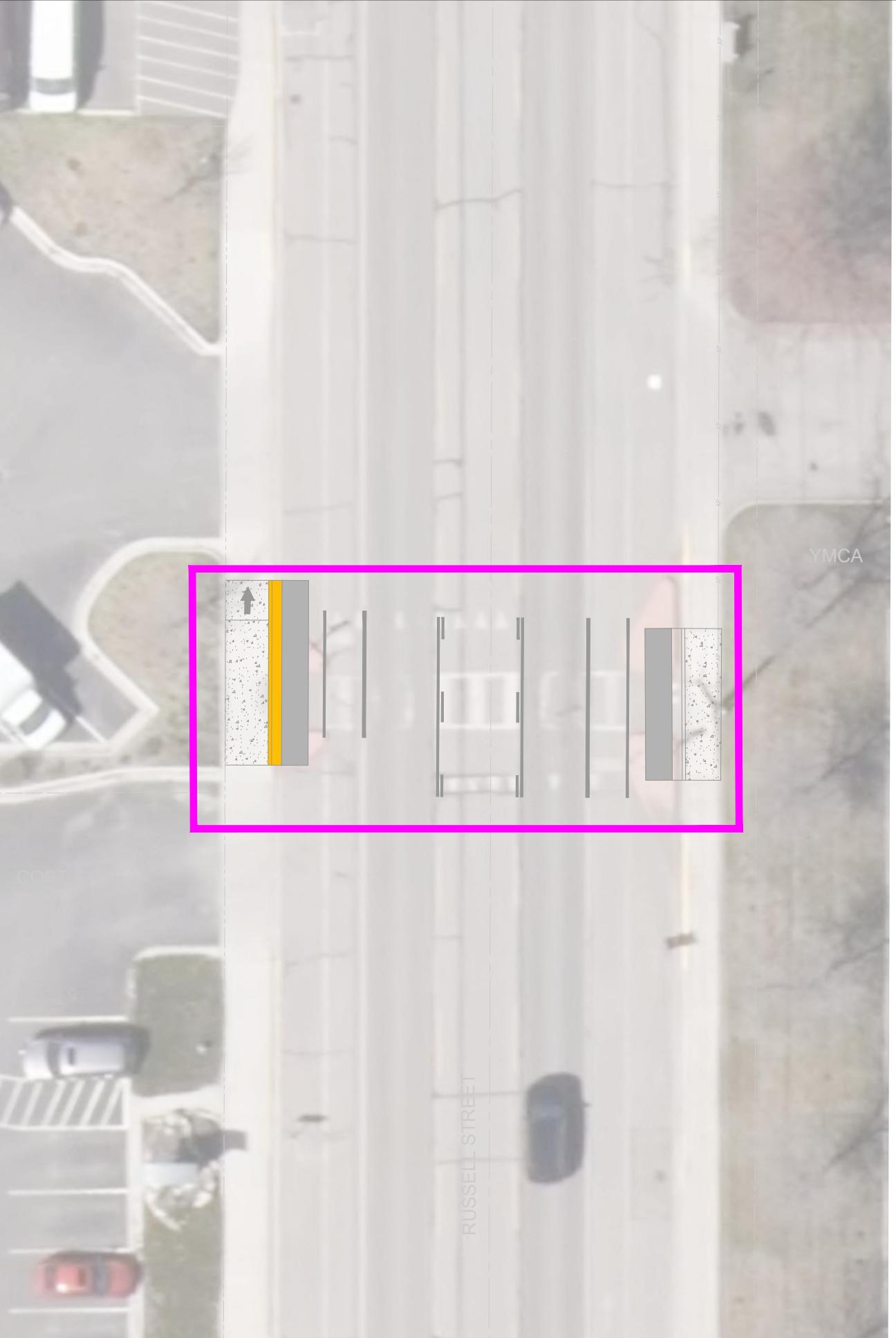
GENERAL NOTES:

1. THE ANTICIPATED DISTURBED AREA FOR THIS PROJECT IS NOT GREATER THAN 1 ACRE AND THEREFORE IS NOT SUBJECT TO THE 2018 GENERAL PERMIT UNDER THE MONTANA POLLUTANT DISCHARGE ELIMINATION SYSTEM. HOWEVER, APPLICABLE CITY OF MISSOULA STORM WATER REGULATIONS AND PERMITTING STILL APPLY. ALL "SWPPP" REFERENCES IN THESE GENERAL NOTES PERTAIN TO THE CITY STORM WATER PERMIT ONLY.
2. THE CONTRACTOR SHALL FILL OUT AND SUBMIT ALL THE REQUIRED PAPERWORK AND PAY FEES FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO BE IN COMPLIANCE WITH CITY OF MISSOULA. THE CONTRACTOR SHALL REVIEW AND HAVE AN UNDERSTANDING OF THE PLANS INTENT FOR PROVIDING EROSION AND SEDIMENT CONTROL.
3. LAND DISTURBING ACTIVITY SHALL NOT COMMENCE UNTIL APPROVAL/PERMIT HAS BEEN GIVEN BY CITY OF MISSOULA.
4. THIS EROSION CONTROL PLAN IS TO BE USED AS A GUIDE. IT IS THE SWPPP ADMINISTRATOR'S DUTY TO MODIFY OR UPDATE THE EROSION CONTROL PLAN TO MATCH THE SWPPP NARRATIVE AND THE ACTUAL BMPs INSTALLED ON-SITE AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) FORM IS SUBMITTED TO CITY OF MISSOULA.
5. EVALUATE SUITABILITY OF GRAVEL CONSTRUCTION ENTRANCE PROTECTION. IF ARRANGEMENT SHOWN ON THIS SHEET IS NOT SUITABLE, AN ALTERNATE METHOD SHALL BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. CONTRACTOR TO PREVENT UNTREATED RUNOFF FROM LEAVING THE SITE. ADDITIONAL BMPs MAY BE NECESSARY.
7. CONTRACTOR TO PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. PROVIDE WATER FOR DUST CONTROL AS NECESSARY.
8. THE CONTRACTOR IS TO BE RESPONSIBLE FOR INSTALLING, INSPECTING, MAINTAINING, PRESERVING AND EVALUATING THE PERFORMANCE OF ALL EROSION CONTROL MEASURES.
9. THE CONTRACTOR IS TO BE RESPONSIBLE FOR PERFORMING ALL MONITORING, REPORTING, AND RECORDS RETENTION REQUIREMENTS PER CITY REQUIREMENTS.
10. THE CONTRACTOR MUST HAVE ON-SITE AT ALL TIMES AND IMMEDIATELY AVAILABLE DURING CONSTRUCTION THE FOLLOWING: 1) COPY OF THE APPLICABLE CITY PERMITS AND APPROVALS 2) COPY OF THE CITY NOI FORM, 3) A LIST OF POTENTIAL POLLUTANT SOURCES AND BMP SELECTION FOR EACH, 4) AN UP TO DATE COPY OF THIS EROSION CONTROL PLAN INCLUDING ANY FIELD CHANGES, 5) BMP INSTALLATION AND DESIGN STANDARDS FOR ALL BMP INSTALLED AND DETAILED IN THE STORM WATER PERMIT.
11. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND/OR FINES THAT MAY RESULT FROM RUNOFF FROM THIS SITE PRIOR TO FINAL STABILIZATION.
12. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE WARRANTY PERIOD, AND UNTIL FINAL STABILIZATION OF THE SITE IS REACHED. THE CONTRACTOR IS THEN RESPONSIBLE FOR REMOVING EROSION CONTROL MEASURES AND SUBMITTING THE NOT TO THE CITY OF MISSOULA.
13. ALL DISTURBED AREAS SHALL BE SEEDED OR PAVED WITHIN 14 DAYS OF FINAL GRADING. SHOULD CONSTRUCTION OF AN AREA STOP FOR LONGER THAN 14 DAYS, THE AREA SHOULD BE TEMPORARILY SEEDED OR STABILIZED IN ANOTHER ACCEPTABLE MANNER.
14. CONTRACTOR SHALL DESIGNATE THE LOCATION OF ALL DUMPSTERS, FUELING/MAINTENANCE AREAS, AND PORTABLE TOILETS. PORTABLE TOILETS TO BE SECURED TO GROUND TO PREVENT TIPPING/SPILLING.
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19. CONTRACTOR TO SUBMIT ALL CITY OF MISSOULA STORM WATER DOCUMENTS AND APPLICATION TO THE CITY TO OBTAIN PERMITS PRIOR TO EARTH DISTURBING ACTIVITIES.

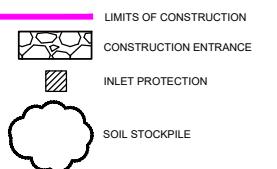
KEY NOTES (THIS SHEET):

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- ② INSTALL TRACK PADS TO PREVENT SEDIMENT TRACK-OUT PRIOR TO STARTING MAJOR EXCAVATION WORK. IF SHOWN LOCATIONS ARE NOT SUITABLE THIS PLAN MUST BE UPDATED WITH THE NEW LOCATION(S). SEE DETAIL SHEET.
- ③ CONTRACTOR TO INSTALL THE APPROPRIATE FILTERS OR WITCH'S HATS AT INLETS PER THE DETAIL SHEET. NOTE: INLET PROTECTION MAY NOT BE SHOWN AT ALL INLETS THAT REQUIRE IT. SWPPP ADMINISTRATOR TO EVALUATE SITE AND IDENTIFY ADDITIONAL INLETS THAT ARE DOWNSTREAM OF CONSTRUCTION AND NEED INLET PROTECTION. UPDATE PLANS WITH ANY ADDITIONAL INLETS THAT HAVE INLET PROTECTION.
- ④ PROVIDE CONCRETE WASHOUT AREA DURING ALL PHASES OF CONSTRUCTION. IF SHOWN LOCATION IS NOT SUITABLE THIS PLAN MUST BE UPDATED WITH THE NEW LOCATION(S). SEE DETAIL SHEET.
- ⑤ PROVIDE MATERIAL STORAGE AND PORTABLE TOILET AREA. IF SHOWN LOCATIONS ARE NOT SUITABLE THIS PLAN MUST BE UPDATED WITH THE NEW LOCATION(S).
- ⑥ EXAMPLE SOIL STOCKPILE LOCATIONS (ACTUAL LOCATIONS DETERMINED BY CONTRACTOR). TEMPORARILY STABILIZE ALL SOIL STOCKPILES WITH THE USE OF EROSION CONTROL BLANKET OR PLASTIC LAID OVER THE STOCKPILE OR INSTALL A V-DITCH AND BERM AROUND THE PERIMETER OF THE STOCKPILE SET A MINIMUM OF 5 FEET FROM THE TOE OF THE PILE. UPDATE PLAN WITH STOCKPILE LOCATIONS AS THEY CHANGE.
- ⑦ INSTALL SILT FENCE AROUND MAJOR DISTURBED AREAS IF DETERMINED NECESSARY FOR EROSION CONTROL.





EROSION CONTROL LEGEND



10 0 10 20
SCALE - FEET

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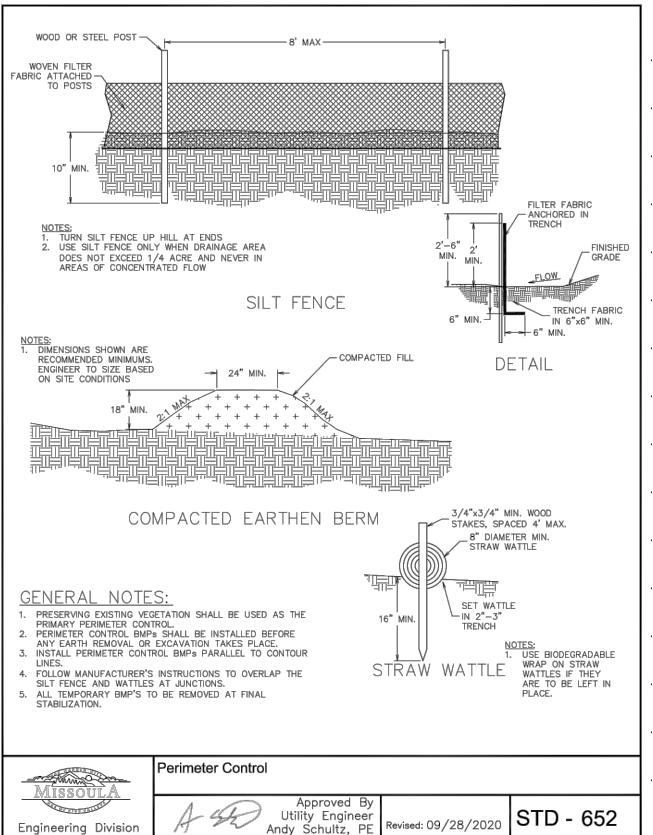
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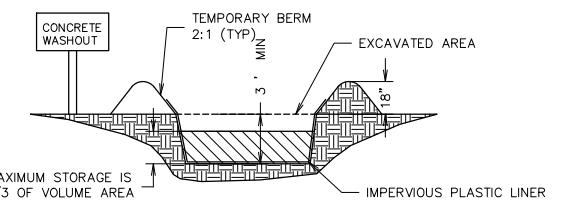
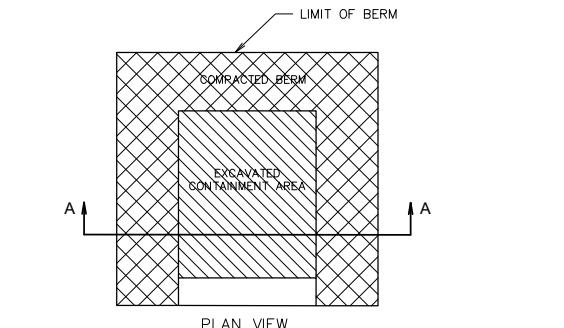
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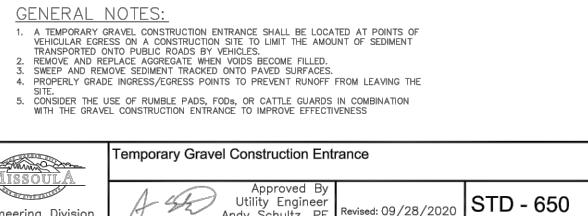
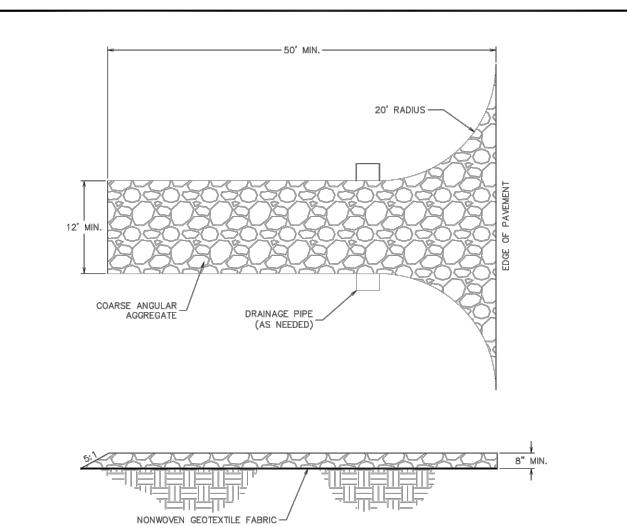
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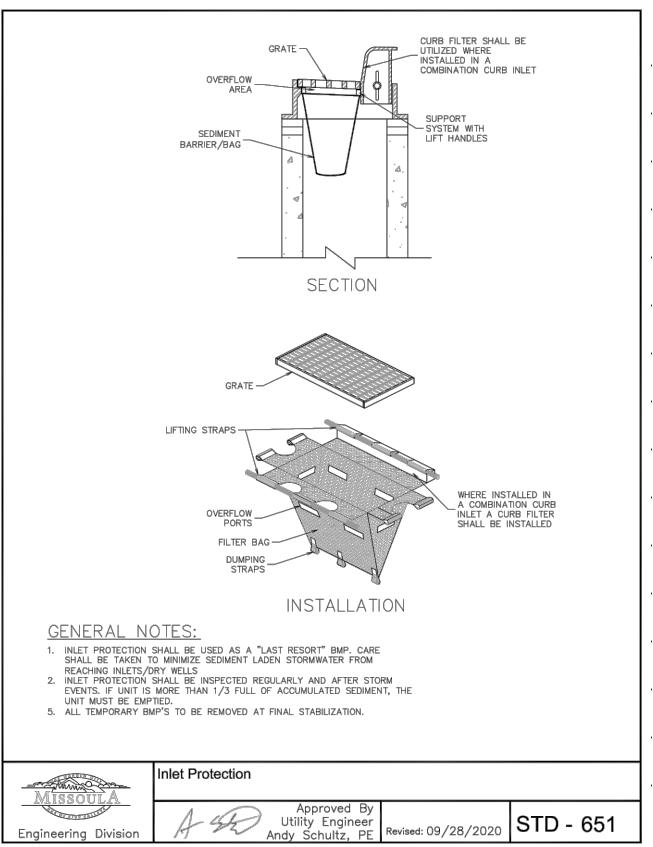
1 PERIMETER CONTROL
C6.1 NO SCALE



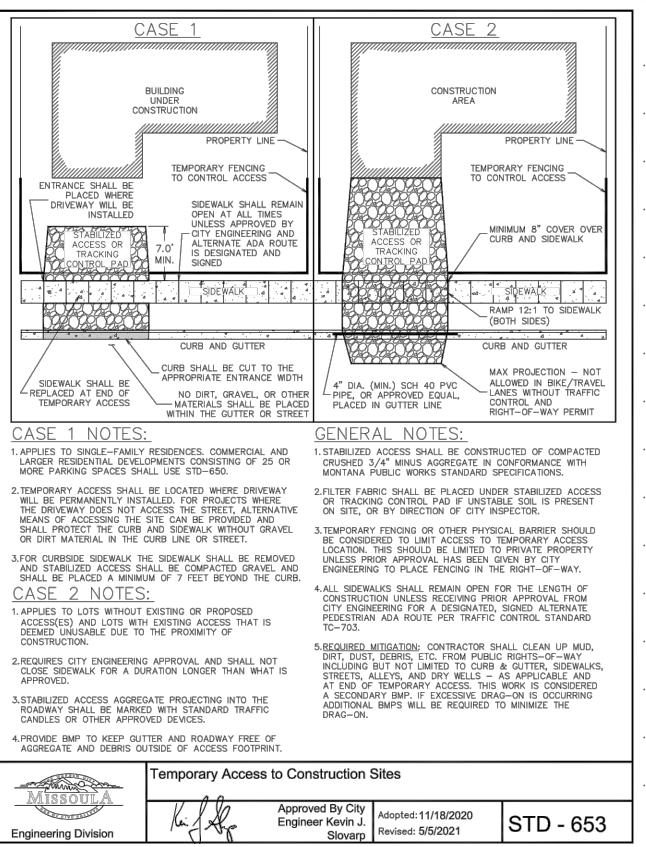
NOTES:
LIQUID AND SOLID WASTE FROM CONCRETE OPERATIONS IS A SIGNIFICANT POLLUTANT SOURCE WITH THE HIGH PH AND ARRAY OF CHEMICALS IT CONTAINS. CONCRETE WASHOUTS AND SLURRY CANNOT BE WASTED TO THE GROUND WITHOUT CONTAINMENT. A DESIGNATED, FUNCTIONAL CONCRETE WASHOUT AREA NEEDS TO BE CONSTRUCTED AND MAINTAINED IN A FULLY FUNCTIONAL CONDITION TO APPROPRIATELY MANAGE LIQUID WASTES GENERATED FROM CONCRETE OPERATIONS.



3 GRAVEL CONSTRUCTION ENTRANCE
C6.1 NO SCALE



4 INLET PROTECTION
C6.1 NO SCALE



5 TEMPORARY ACCESS
C6.1 NO SCALE