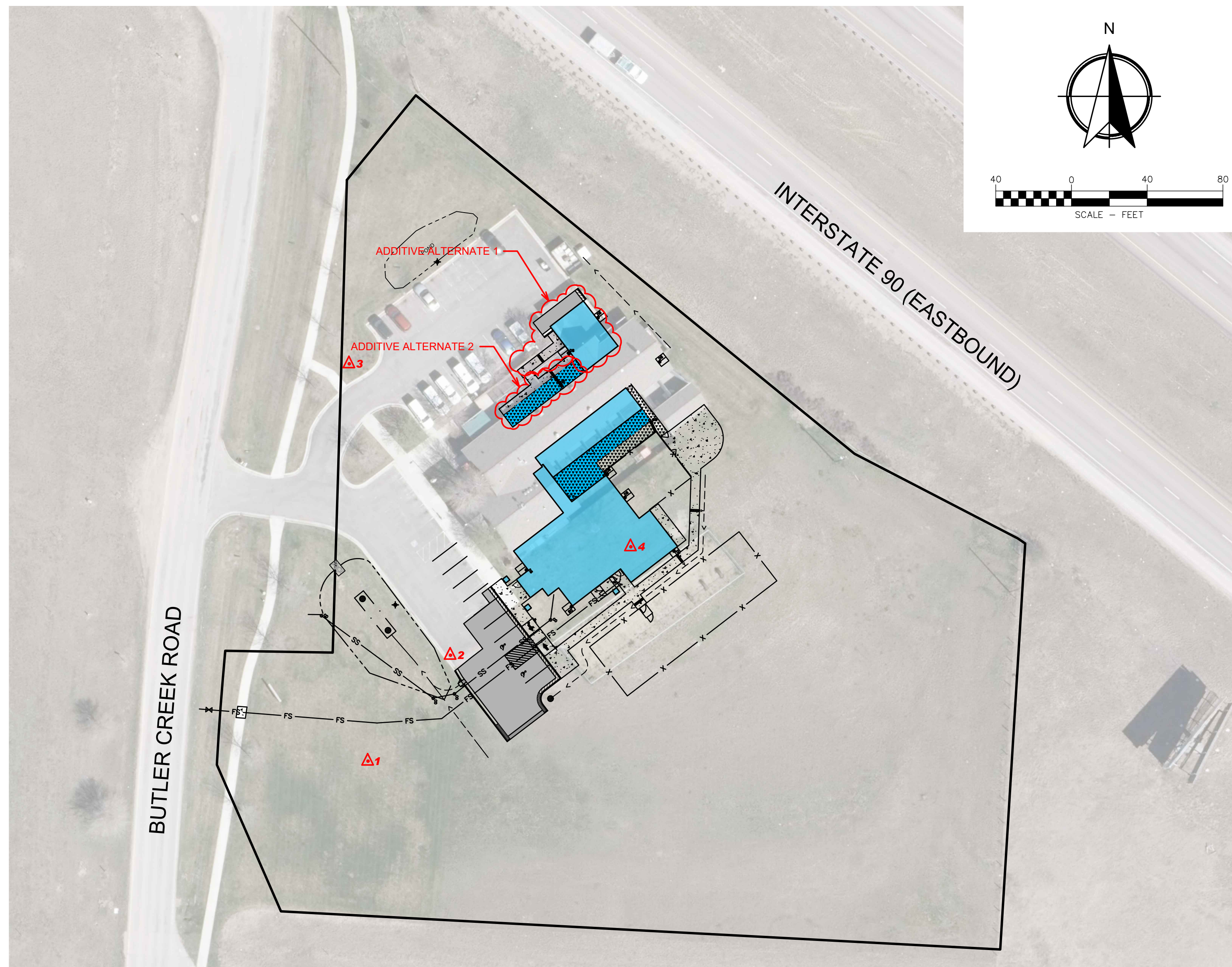


# ANIMAL CONTROL FACILITY IMPROVEMENTS MISSOULA COUNTY, MONTANA



**100% CONSTRUCTION  
DOCUMENTS**

Revision Schedule		
Number	Description	Date



**PROJECT OVERVIEW**

### LEGEND-EXISTING

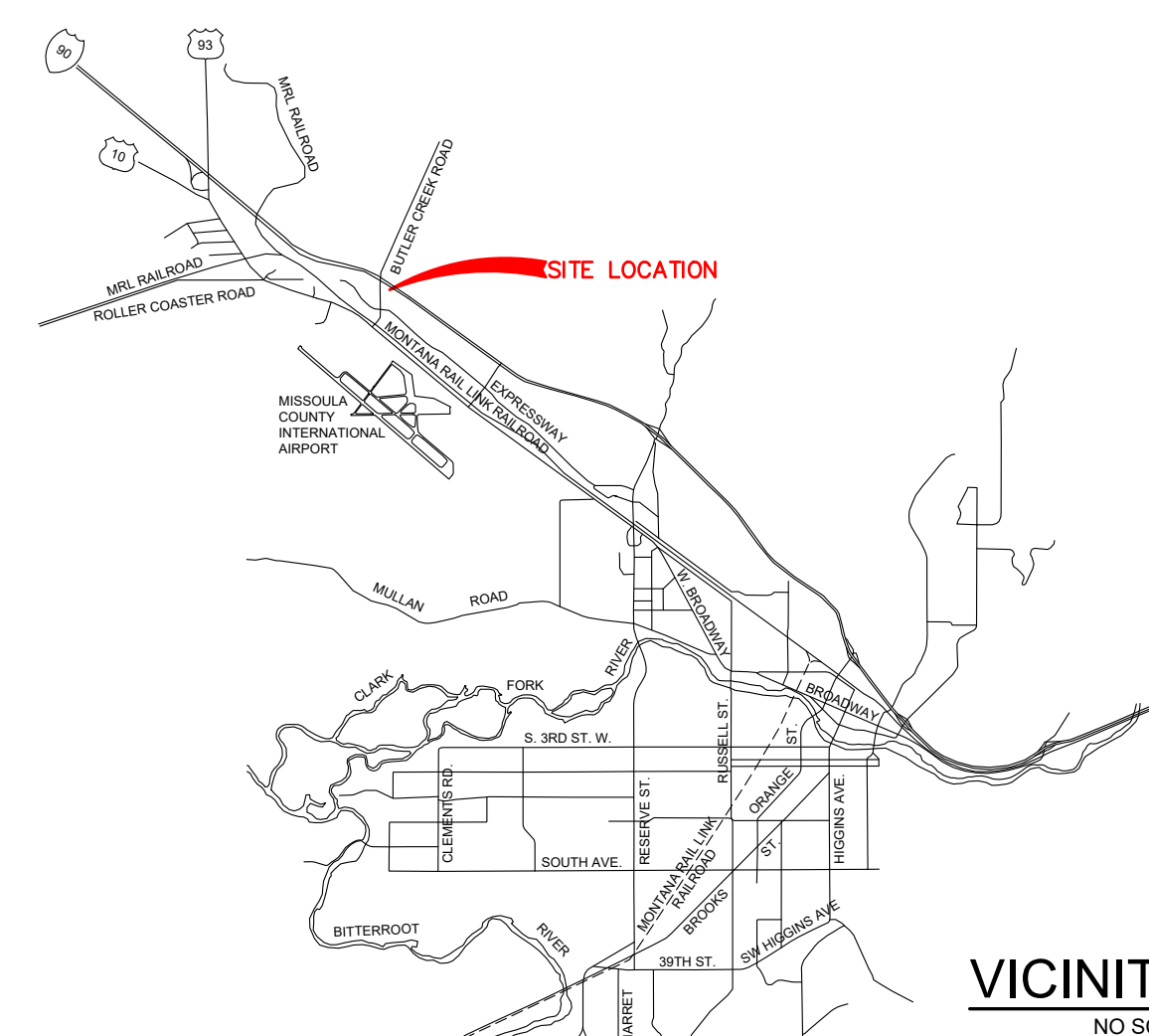
- SUBJECT PROPERTY BOUNDARY
- EXTERIOR BUILDING WALL
- BUILDING OVERHANG/EAVE
- CONCRETE SIDEWALK
- ASPHALT
- EDGE OF ASPHALT
- CURB AND GUTTER
- CURB AND GUTTER W/LAYDOWN
- EDGE OF LANDSCAPING GRAVEL
- WATER MAIN
- WS — WATER SERVICE
- S — SANITARY SEWER MAIN
- SS — SANITARY SEWER SERVICE
- AP — AERIAL POWER LINE
- BE — BURIED ELECTRIC LINE
- T — BURIED TELEPHONE LINE
- X — X — FENCE
- IRRIGATION DITCH
- CULVERT
- CONTOUR (1 FOOT INTERVAL)
- ⊗ W/V — WATER VALVE
- ⊗ — YARD HYDRANT
- ⊗ — WATER MANHOLE
- ⊗ — SANITARY SEWER MANHOLE
- ⊗ — SANITARY SEWER CLEANOUT
- ⊗ — UTILITY POLE
- GUY WIRE
- ⊗ — LIGHT POLE
- ⊗ — ELECTRIC METER
- ⊗ TEL — COMMUNICATIONS PEDESTAL
- ⊗ — GAS METER
- ⊗ — EVERGREEN TREE (SIZE AS NOTED)
- ⊗ — DECIDUOUS TREE (SIZE AS NOTED)
- ⊗ — MAIL BOX
- ⊗ — SIGN
- — BOLLARD

### LEGEND-PROPOSED

- EDGE OF ASPHALT
- CURB AND GUTTER (CATCH)
- CURB AND GUTTER (SPILL)
- CURB AND GUTTER W/DRAINWAY OPENING
- CURB AND GUTTER W/LAYUP
- BUILDING
- BUILDING OVERHANG
- 4" THICK CONCRETE SIDEWALK
- HEATED 4" THICK CONCRETE SIDEWALK (SEE MECHANICAL)
- ASPHALT
- X — X — FENCE
- FS — FS — FIRE SERVICE
- SS — SS — SEWER SERVICE
- DRAINAGE PATHWAY
- TOP OF POND
- BOTTOM OF POND
- ⊗ — RIPRAP
- ⊗ — WATER VALVE
- ⊗ — CLEANOUT
- ⊗ — DRYWELL
- ⊗ — DOWNSPOUT
- ⊗ — SIDEWALK DRAIN
- ⊗ — SIGN
- ⊗ — LIGHT POLE (SEE ELECTRICAL)
- ⊗ — ROOF DRAIN SPLASH PAD
- ⊗ — GATE
- ⊗ — BIKE LOCKER (SEE ARCHITECTURAL PLANS)

### SHEET INDEX

SHEET	DESCRIPTION
C1.0	CIVIL COVER SHEET
C1.1	EXISTING CONDITIONS
C1.2	DEMOLITION PLAN
C2.0	SITE PLAN
C3.0	SEWER SERVICE PLAN AND PROFILE
C4.0	OVERALL GRADING PLAN
C5.0	CIVIL DETAILS
C5.1	CIVIL DETAILS
C5.2	CIVIL DETAILS
C6.0	EROSION CONTROL PLAN
C6.1	EROSION CONTROL DETAILS



**VICINITY MAP**  
NO SCALE



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 MEMBER UTILITIES.

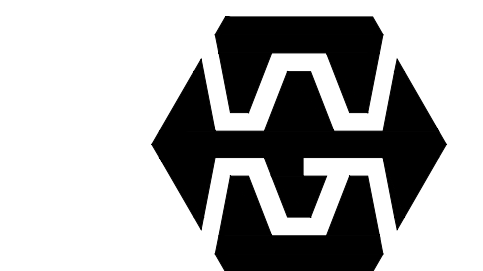
WGM GROUP, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR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

### SURVEY CONTROL POINTS

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1012303.84	822209.73	3245.22	WGM OPC
2	1012359.78	822253.29	3243.32	MAG NAIL
3	1012513.74	822199.82	3242.94	WGM OPC
4	1012417.08	822348.57	3243.72	WGM OPC

### CIVIL DRAWINGS GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE PROJECT MANUAL AND MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, SEVENTH EDITION, APRIL 2021, AS AMENDED BY THE 2024 MISSOULA CITY PUBLIC WORK STANDARDS AND SPECIFICATIONS.
- 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.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM CITY OF MISSOULA, STATE OF MONTANA, AND UTILITY COMPANIES PRIOR TO STARTING WORK.
- ALL CONCRETE AREAS ARE DESIGNED TO HAVE A 1.0% MAXIMUM CROSS SLOPE UNLESS OTHERWISE SHOWN ON THE PLANS.
- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT AND BEGINNING CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES, AND PROTECTING HAUL OFF/DRAW ON ONTO ADJACENT PARKING AREAS AND PUBLIC RIGHTS OF WAY. CONTRACTOR RESPONSIBLE FOR CLEANING ANY MATERIAL HAULED OFF/DRAW ONTO ADJACENT PARKING AREAS OR PUBLIC RIGHTS OF WAY.
- CONTRACTOR RESPONSIBLE FOR LOCATING EXISTING IRRIGATION SYSTEM AND REPAIRING ANY CONTRACTOR DAMAGE TO SYSTEM.
- 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.
- 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.
- CONTRACTOR TO CONTACT MONTANA UTILITIES UNDERGROUND LOCATION CENTER (UJLC) OR MONTANA 811 AT MONTANA811.ORG OR BY TELEPHONE AT 811 PRIOR TO ANY DIGGING OR EXCAVATION WORK, AS PER THE MONTANA DIG LAW.
- CONTRACTOR TO COORDINATE WITH OWNER FOR CONSTRUCTION OF ADDITIVE ALTERNATES TO MAINTAIN SITE ACCESS PRIOR TO CONSTRUCTION.
- SWPPP ADMINISTRATOR TO UPDATE PLAN TO REFLECT CURRENTLY INSTALLED BMPs.
- DAMAGED CONCRETE AREAS SHALL BE REPAIRED. INSTALL ELASTOMERIC SEAL IN OPEN JOINTS AND GRIND TRIP HAZARDS.



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CONTROL SHELTER**  
at  
**6700 BUTLER CREEK  
ROAD, MISSOULA, MT.  
59808**

**CIVIL COVER SHEET**

Date: 2024.03.29

Project No: 22.074

**C1.0**



# 100% CONSTRUCTION DOCUMENTS

Revision Schedule		
Number	Description	Date



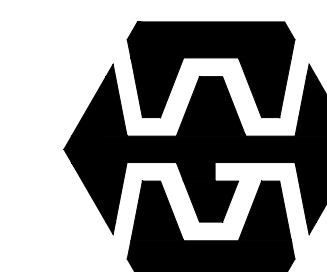
## LEGEND-EXISTING

- SUBJECT PROPERTY BOUNDARY
- EXTERIOR BUILDING WALL
- BUILDING OVERHANG/EAVE
- CONCRETE SIDEWALK
- ASPHALT
- EDGE OF ASPHALT
- CURB AND GUTTER
- CURB AND GUTTER W/LAYDOWN
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- GAS METER
- EVERGREEN TREE (SIZE AS NOTED)
- DECIDUOUS TREE (SIZE AS NOTED)
- MAIL BOX
- SIGN
- BOLLARD

BASIS OF BEARINGS:  
GRID NORTH OF MONTANA 2500 STATE PLANE COORDINATE SYSTEM NAD83(2011)(EPOCH:2010.0000)

VERTICAL DATUM:  
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) - OPUS SOLUTION @ CP#1

\*\*\*\*\* BOUNDARY SHOWN IS RECORD PER COS 3858 TRANSLATED AND ROTATED TO MONUMENT TIES 252 AND 254. BOUNDARY LINEWORK SHOWN IS FOR MAPPING PURPOSES ONLY. NOT TITLE WORK REVIEW WAS DONE AS PART OF THIS SURVEY.



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**EXISTING CONDITIONS**

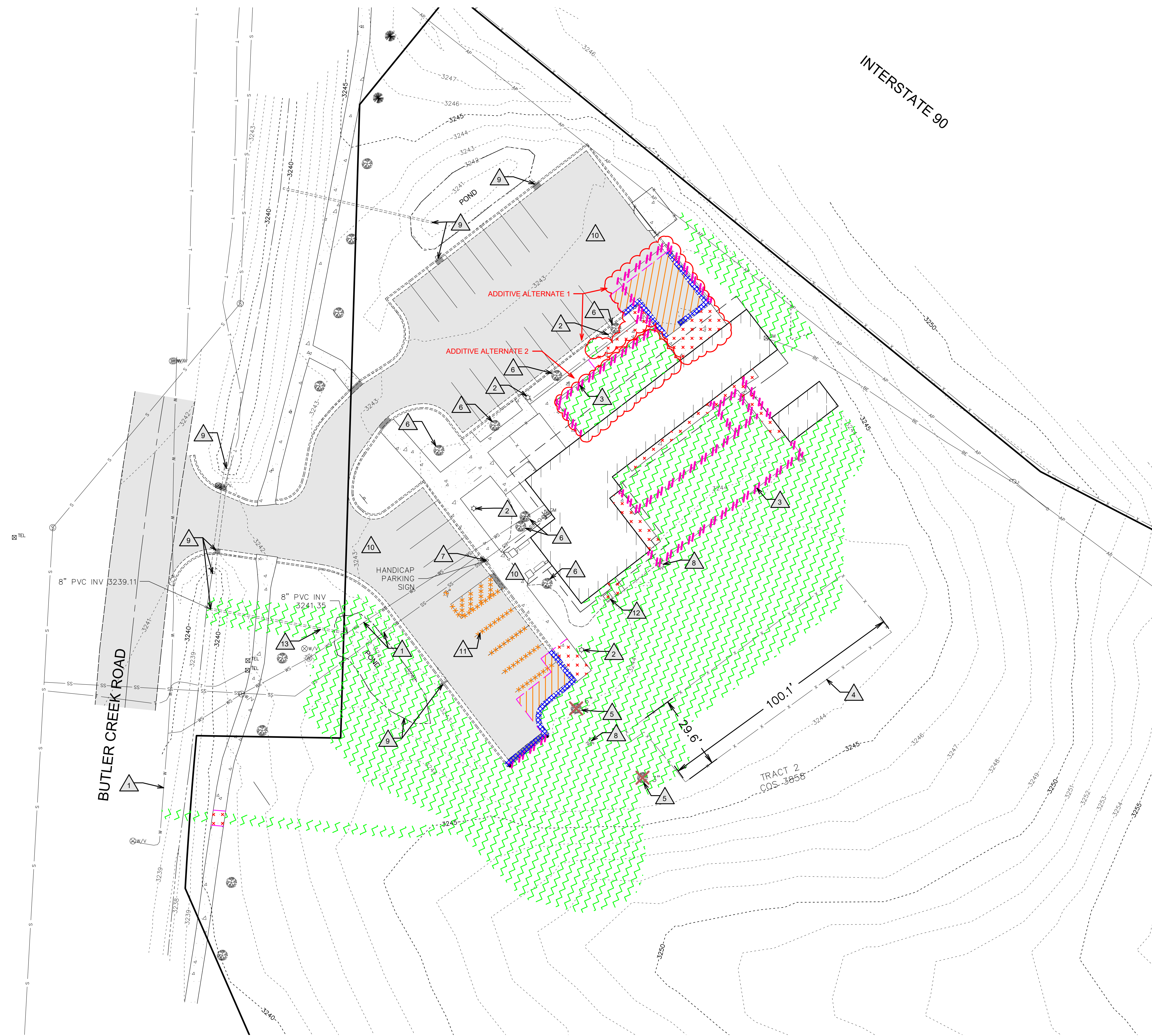
Date: 2024.03.29 Project No: 22.074

**C1.1**



# 100% CONSTRUCTION DOCUMENTS

Revision Schedule		
Number	Description	Date



## LEGEND-DEMOLITION

- SAWCUT LIMIT
- ASPHALT REMOVAL AREA
- CONCRETE REMOVAL AREA
- TOPSOIL REMOVAL AREA
- CURB REMOVAL
- FENCE REMOVAL
- PAINT STRIPING REMOVAL
- TREE 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.

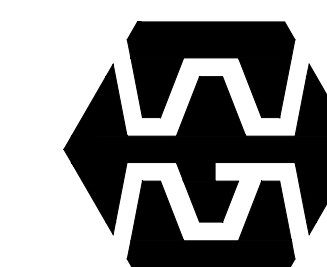
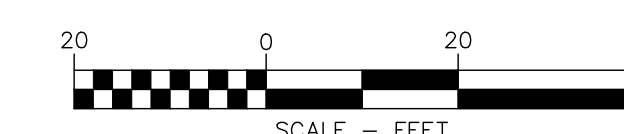
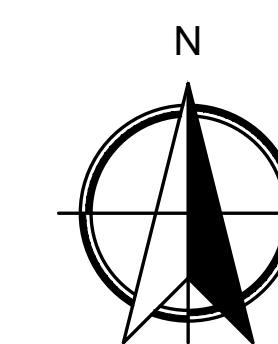
STRIP TOPSOIL AS NEEDED IN AREAS WHERE BUILDING, PARKING LOT OR SIDEWALK IS PROPOSED. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES. CONTRACTOR RESPONSIBLE FOR FULL DEPTH OF STRIPPING. ANY EXCESS TOPSOIL THAT IS NOT USED IN PROPOSED LANDSCAPING SHALL BE DISPOSED OF OFF SITE. TOPSOIL NEEDED FOR IMPROVEMENTS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

CONTRACTOR RESPONSIBLE FOR PROTECTING ALL INFRASTRUCTURE OUTSIDE OF CONSTRUCTION LIMITS. ANY INFRASTRUCTURE DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED. RECOMMENDED THAT CONTRACTOR DOCUMENT EXISTING CONDITIONS BEFORE STARTING WORK.

EXISTING ANIMAL CONTROL FACILITY WILL REMAIN OPEN DURING CONSTRUCTION. CONTRACTOR TO ENSURE ACCESS TO FACILITIES AND COORDINATE ANY POTENTIAL CLOSURE OR ACCESS INTERFERENCES WITH FACILITY IN ADVANCE.

## SALVAGE AND DEMOLITION NOTES:

1. PROTECT EXISTING UTILITIES IN PLACE. CONTRACTOR TO VERIFY LOCATIONS AND DEPTHS PRIOR TO EXCAVATION.
2. REMOVE LIGHT POLE AND DISPOSE OFFSITE. CONFIRM LIGHT POLE DEMOLITION WITH ELECTRICAL PLANS PRIOR TO REMOVAL. COORDINATE WITH OWNER TO DETERMINE IF PARKING LOT LIGHTING NEEDS TO BE MAINTAINED FOR DURATION OF CONSTRUCTION.
3. REMOVE FENCING AND COORDINATE WITH OWNER FOR SALVAGE OR DISPOSAL.
4. SALVAGE FENCE AND GATES FOR RE-USE. DISPOSE OF FENCE POSTS OFFSITE.
5. REMOVE TREE AND ROOTBALL. DISPOSE OFFSITE.
6. PROTECT TREE AND ROOT SYSTEM. PROVIDE ADEQUATE IRRIGATION AS NEEDED FOR DURATION CONSTRUCTION.
7. REMOVE SIGN AND DISPOSE OFFSITE.
8. REMOVE EXISTING YARD HYDRANT. COORDINATE WITH OWNER TO LOCATE SHUT-OFF. ABANDON ANY EXTERIOR PIPING IN PLACE AND DISPOSE YARD HYDRANT ASSEMBLY OFFSITE.
9. PROVIDE NECESSARY EROSION CONTROL BMPs TO PROTECT EXISTING ONSITE AND DOWN STREAM STORMWATER SYSTEMS AND LIMIT SEDIMENT TRACKING ONTO ADJACENT STREETS. REFER TO EROSION CONTROL PLAN FOR ADDITIONAL REQUIREMENTS AND NOTES.
10. COORDINATE WITH OWNER FOR BUILDING AND PARKING LOT ACCESS DURING CONSTRUCTION.
11. BLACK OUT EXISTING PARKING LOT PAINT STRIPING. REFER TO SITE PLAN C2.0 FOR NEW PARKING CONFIGURATION AND DIMENSIONS.
12. REMOVE HVAC EQUIPMENT. COORDINATE WITH MECHANICAL PLANS.
13. REMOVE PORTION OF EXISTING 8" HDPE PIPE CONFLICTING WITH PROPOSED POND IMPROVEMENTS. SEE SITE PLAN AND GRADING PLAN FOR ADDITIONAL INFORMATION ON PROPOSED POND. BACKFILL IN 1.0FT MAXIMUM LIFTS WITH STRUCTURAL FILL AND COMPACT TO 95% PROCTOR DENSITY. ABANDON REMAINDER OF PIPE IN PLACE. REMOVE PIPE OUTLET AND BACKFILL AS NOTED ABOVE AND REPAIR OR PATCH LANDSCAPING TO EXISTING CONDITION.



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**MISSOULA CITY -  
COUNTY ANIMAL  
CONTROL SHELTER**  
at  
**6700 BUTLER CREEK  
ROAD, MISSOULA, MT.  
59808**

## DEMOLITION PLAN

Date: 2024.03.29

Project No: 22.074

# C1.2



# 100% CONSTRUCTION DOCUMENTS

Revision Schedule		
Number	Description	Date



LEGEND-PROPOSED		DETAIL INDEX	
	CURB AND GUTTER (CATCH)		STANDARD L CURB
	CURB AND GUTTER (SPILL)		LAYDOWN CURB
	CURB AND GUTTER W/LAYDOWN OPENING		LAYUP CURB
	CURB AND GUTTER W/LAYUP		TYPICAL SIDEWALK SECTION
	4" THICK CONCRETE SIDEWALK		ASPHALT SECTION
	ASPHALT		SUMP DETAIL
	DRYWELL		WATER SERVICE DETAIL
	FIRE SERVICE		VALVE DETAIL
	WATER VALVE		SEWER SERVICE DETAIL
	SEWER SERVICE		CLEANOUT DETAIL
	CLEANOUT		SIDEWALK CHANNEL DRAIN
	SIDEWALK DRAIN	<b>MISC DETAILS</b>	
	BUILDING		CONCRETE JOINTING DETAILS
	BUILDING OVERHANG		TYPICAL UTILITY TRENCH
	HEATED 4" THICK CONCRETE SIDEWALK (SEE MECHANICAL)		VALVE THRUST BLOCKING DETAIL
	EDGE OF ASPHALT		THRUST BLOCK DETAIL
	FENCE		HEATED SIDEWALK SECTION - REFERENCE ONLY
	DRAINAGE PATHWAY		SIDEWALK DRAIN
	TOP OF POND		CURB CUT
	BOTTOM OF POND		ACCESSIBLE PARKING SPACES
	RIPRAP		ACCESSIBLE PARKING SIGNAGE
	SIGN		
	LIGHT POLE (SEE ELECTRICAL)		
	ROOF DRAIN SPLASH PAD		
	GATE		
	BIKE LOCKER (SEE ARCHITECTURAL PLANS)		

### GENERAL NOTES:

- ADDITIVE ALTERNATE 1 IS THE ADDITION OF A VEHICLE ENTRY FOR THE DELIVERY OF ANIMALS TO THE ANIMAL CONTROL FACILITIES AND ASSOCIATED SITE WORK. SEE ARCHITECTURAL FOR ADDITIONAL DETAILS.
- ADDITIVE ALTERNATE 2 IS THE CONSTRUCTION OF HEATED SIDEWALK AND COVERED KENNEL AREA. SEE ARCHITECTURAL.

### KEYED NOTES:

- EXPAND STORMWATER RETENTION POND AND INSTALL STANDARD DRYWELL SUMPS AS SHOWN. REFER TO GRADING PLAN POND ELEVATION INFORMATION.
- INSTALL NEW 6" SCH 40 PVC SEWER SERVICE LINE AT 1.0% MINIMUM SLOPE. REFER TO SHEET C3.0 FOR SEWER SERVICE PLAN AND PROFILE AND ADDITIONAL DETAILS.
- INSTALL 6" CL 350 DIP FIRE SERVICE LINE FROM EXISTING 8" STEEL WATER MAIN. CONNECT TO EXISTING WATER MAIN WITH 6" STAINLESS STEEL TAPPING SLEEVE AND INSTALL 6" MUXFLG GATE VALVE WITH VALVE BOX. ENSURE 6.0' MINIMUM BURY DEPTH OVER ENTIRE LENGTH OF PIPE. CONTRACTOR TO COORDINATE WITH MISSOULA WATER FOR REQUIREMENTS FOR CONNECTION TO WATER MAIN. REFER TO PLUMBING PLAN FOR BUILDING CONNECTION DETAILS. CONTRACTOR TO PROVIDE ALL FITTINGS. CONTRACTOR TO REPAIR ROADSIDE DITCH TO EXISTING CONDITIONS. REPAIR SIDEWALK, LANDSCAPING, AND IRRIGATION DAMAGED DURING FIRE SERVICE LINE INSTALLATION.
- REFER TO LANDSCAPE PLANS FOR PLANTING, IRRIGATION AND SITE ACCESSORY DETAILS.
- PROVIDE EXPANSION JOINT BETWEEN INTERFACE OF CONCRETE AND OTHER STATIONARY OBJECTS. OBJECTS INCLUDE, BUT ARE NOT LIMITED TO: BUILDING FOUNDATIONS, EXISTING CONCRETE, ETC. REFER TO DETAIL ON C5.0 FOR ADDITIONAL CONCRETE JOINTING INFORMATION.
- PROVIDE 3"x12"x20" CONCRETE SPLASH BLOCK AT BUILDING DOWNSPOUT WHERE SHOWN.
- INSTALL 4" WIDE WATERBORNE PARKING LOT PAINT STRIPE.
- INSTALL HEATED SIDEWALK. DETAIL INCLUDED ON SHEET C5.1 FOR REFERENCE ONLY. REFER TO MECHANICAL PLANS FOR DETAILS.
- INSTALL SIDEWALK CHANNEL DRAIN AND SLOPE TO DRAIN TO SHALLOW DRAINAGE PATHWAY INDICATED. REFER TO GRADING PLAN FOR ELEVATION AND SLOPE INFORMATION.
- INSTALL SALVAGED FENCING. MOVE GATES TO LOCATIONS SHOWN AND ENSURE GATES AND SIDEWALK DO NOT CONFLICT WHEN OPENING. PLACE FENCING IN SAME GENERAL CONFIGURATION AS ORIGINAL LAYOUT INDICATED ON SHEET C1.1.
- INSTALL 6FT TALL GALVANIZED CHAIN LINK FENCE, PROVIDE 4.0' WIDE MAN GATES WHERE SHOWN.
- REFER TO ELECTRICAL PLANS FOR SITE LIGHTING DETAILS.
- SEE DETAIL 7 ON SHEET C5.2 FOR CONNECTION OF DOWNSPOUT TO SIDEWALK CHANNEL DRAIN.
- REFER TO GRADING PLAN FOR DRAINAGE PATHWAY GRADING INFORMATION.
- INSTALL LAYUP CURB PER DETAIL 6 ON SHEET C5.0 TO ALLOW MAINTENANCE VEHICLE ACCESS INTO LANDSCAPED AREA.
- PROVIDE CURB CUT FOR PER DETAIL 2 ON SHEET C5.2 TO DRAIN PARKING LOT STORMWATER RUNOFF INTO RETENTION POND. REFER TO GRADING PLAN FOR DRAINAGE AND GRADING INFORMATION.
- PRIOR TO INSTALLING SUMPS IN EXPANDED RETENTION POND, CONTRACTOR EXCAVATE TO BOTTOM OF PROPOSED SUMP DEPTH AND COORDINATE WITH ENGINEER TO DETERMINE IF SOILS ARE SUITABLE FOR INFILTRATION AND IF SUMPS CAN MANAGE STORMWATER.
- INSTALL 5FT WIDE BY 7.6 FT LONG BY 1.0FT THICKNESS ARMORED POND OVERFLOW CONSISTING OF 3'-8" MINUS WASHED ROCK. REFER TO GRADING PLAN FOR POND OVERFLOW ELEVATION INFORMATION.



## MISSOULA CITY - COUNTY ANIMAL CONTROL SHELTER

at

### 6700 BUTLER CREEK ROAD, MISSOULA, MT. 59808

### SITE PLAN

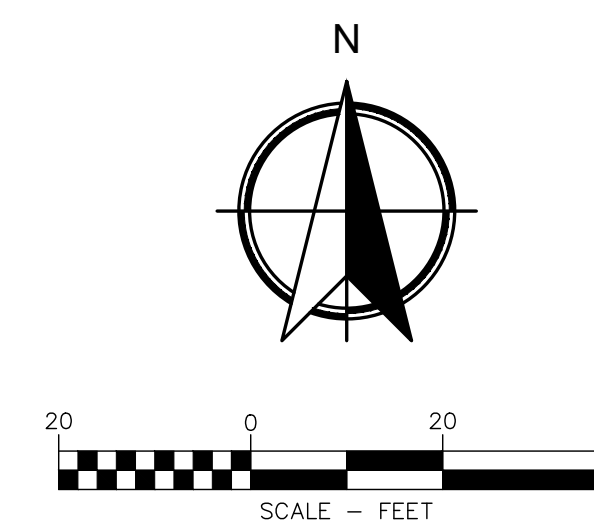
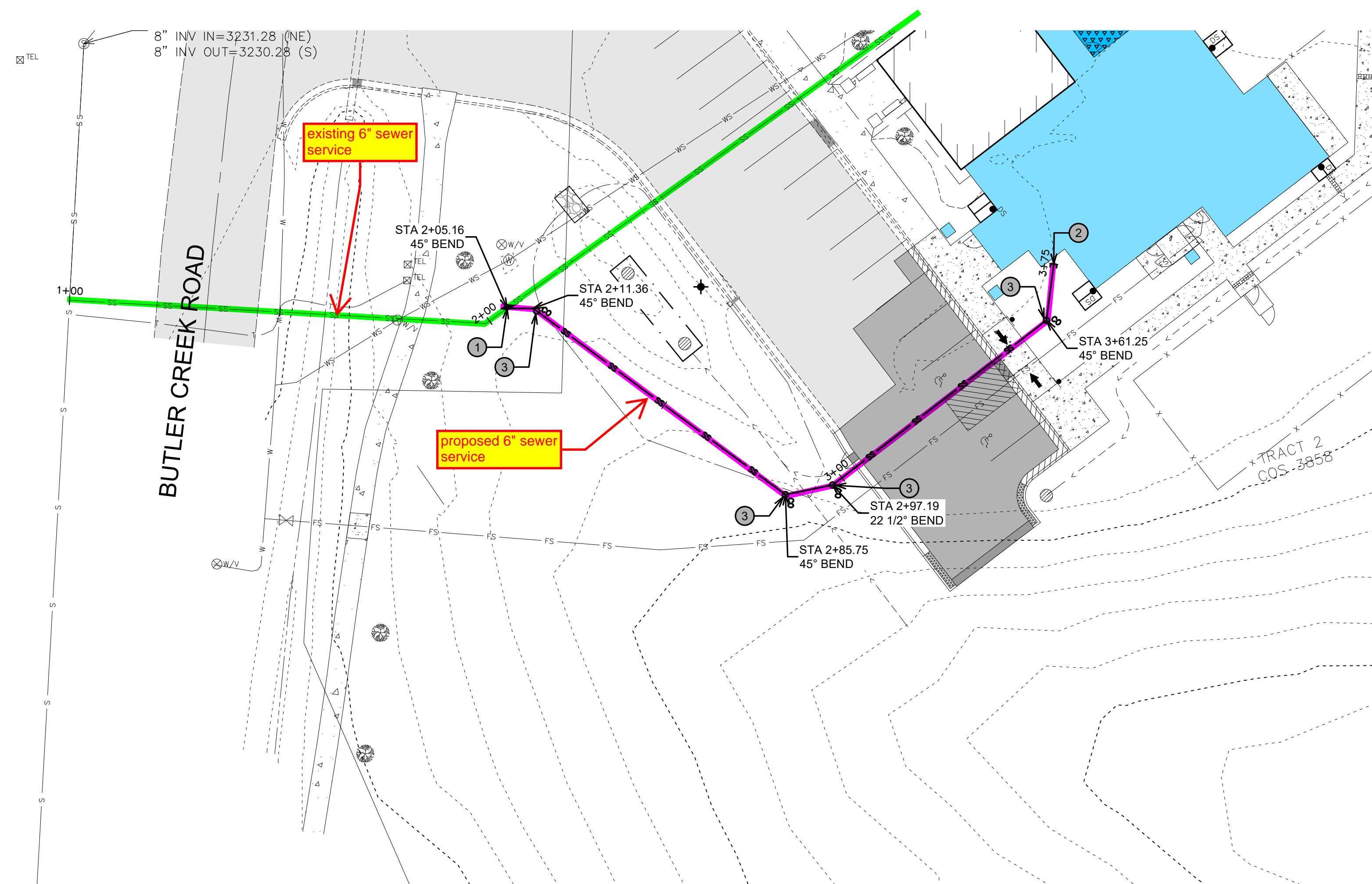
Date: 2024.03.29 Project No: 22.074

# C2.0

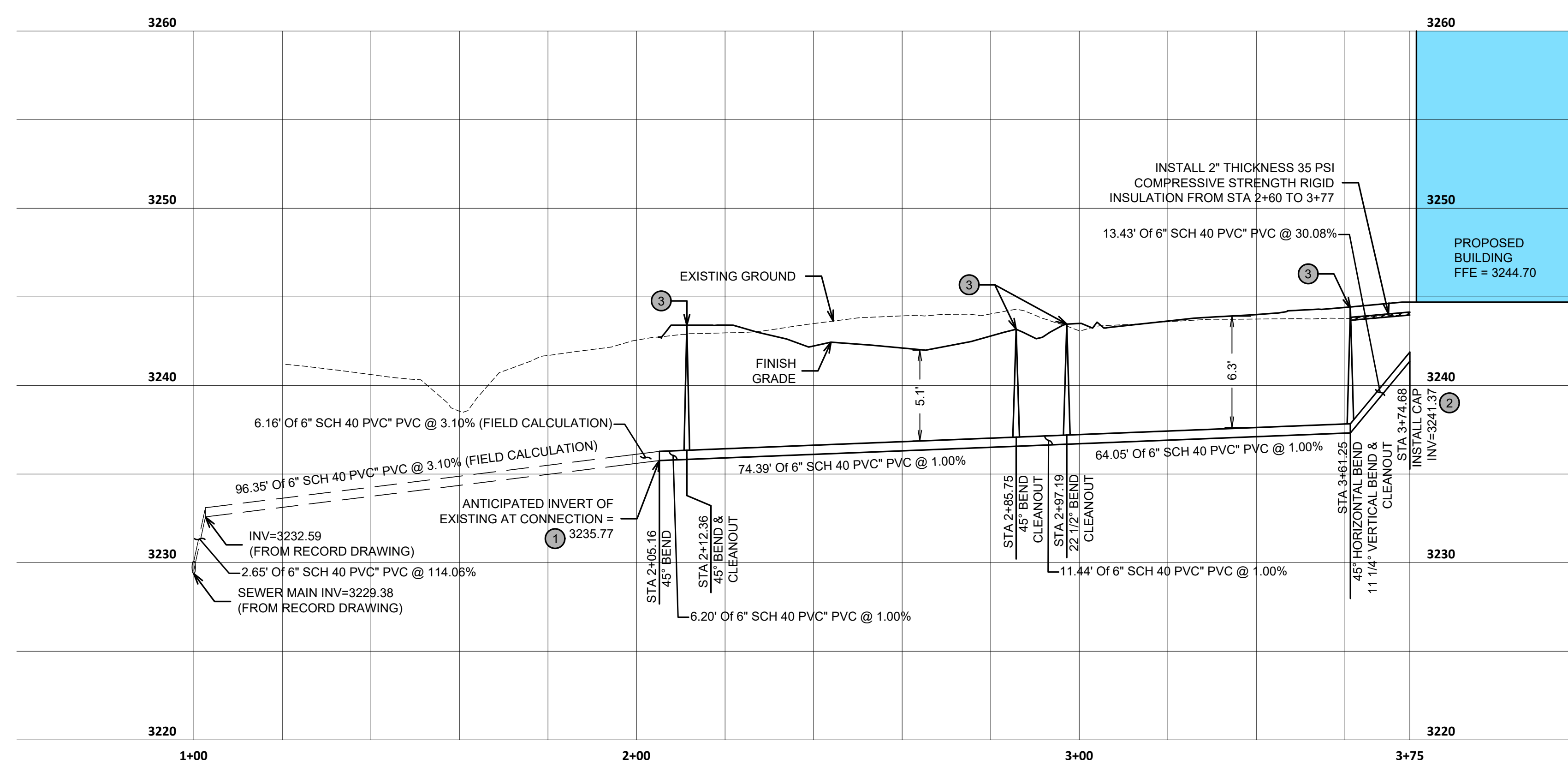


**100% CONSTRUCTION DOCUMENTS**

Revision Schedule		
Number	Description	Date



**SEWER SERVICE**



**KEYED NOTES:**

- 1 SLOPE AND DEPTH INFORMATION OF EXISTING SEWER SERVICE BASED ON RECORD DRAWINGS, DITCH CARD, AND FIELD INVESTIGATION. CONTRACTOR TO VERIFY INVERT OF EXISTING SEWER SERVICE AT CONNECTION POINT OF PROPOSED SEWER SERVICE AND VERIFY 1.0% MINIMUM SLOPE CAN BE ACHIEVED BETWEEN BUILDING AND CONNECTION TO EXISTING SEWER SERVICE. CONTACT ENGINEER IMMEDIATELY IF ELEVATION DISCREPANCIES ARE DISCOVERED.
- 2 REFER TO PLUMBING PLANS FOR BUILDING CONNECTION DETAILS. ANTICIPATED INVERT OF PROPOSED SEWER SERVICE AT BUILDING CONNECTION IS 3.33 FEET (40 INCHES) BELOW FINISH FLOOR = 3244.70.
- 3 ALL CLEANOUTS TO BE ADJUSTED TO FINISHED GROUND. ENSURE CAST IRON PROTECTIVE ROADBOX IS INSTALLED TO PREVENT UV DEGRADATION. REFER TO DETAIL 5 ON SHEET C4.1.



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**MISSOULA CITY - COUNTY ANIMAL CONTROL SHELTER**  
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**SEWER SERVICE PLAN AND PROFILE**

Date: 2024.03.29 Project No: 22.074

**C3.0**



# 100% CONSTRUCTION DOCUMENTS

Revision Schedule		
Number	Description	Date

## LEGEND-GRADING

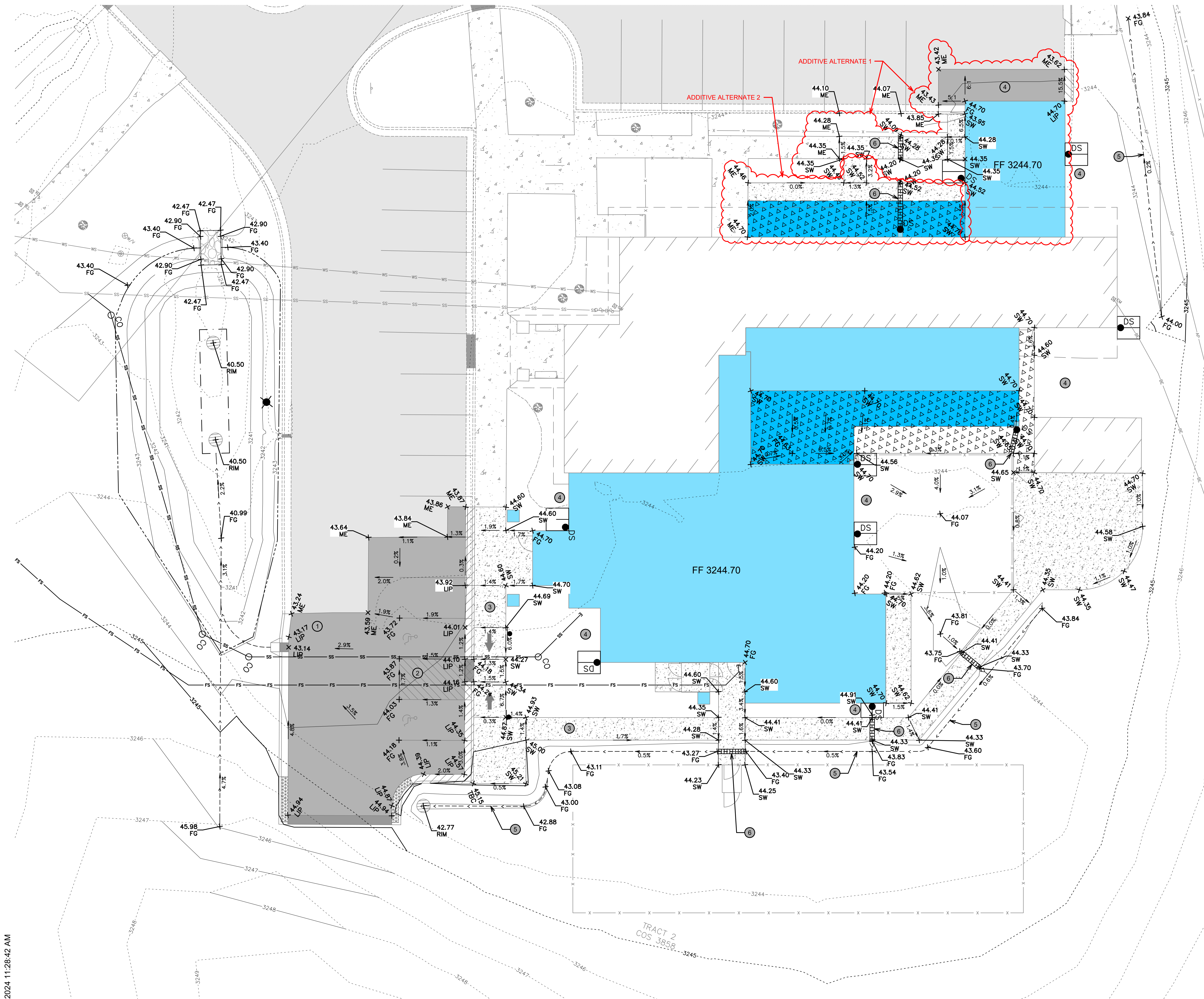
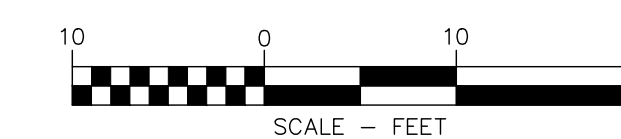
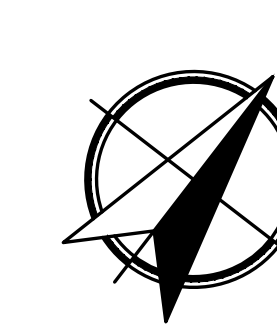
- X 72.50 PROPOSED FINISH GRADE (+3200')
  - 1.4% PROPOSED SLOPE
  - RIM SUMP RIM ELEVATION
  - TBC TOP BACK OF CURB
  - SW TOP OF SIDEWALK
  - LIP LIP OF CURB
  - ME MATCH EXISTING
  - FG FINISH GRADE
  - FF FINISH FLOOR
  - TW TOP OF WALL
  - BW BOTTOM OF WALL
  - ==== CATCH CURB (LIP=0.42')
  - ==== SPILL CURB (LIP=0.58')
- NOTE: ALL ELEVATIONS ARE LIP OF CURB/TOP OF ASPHALT UNLESS OTHERWISE NOTED

## GENERAL CONSTRUCTION NOTES: (THIS SHEET)

- GRADING AND SLOPE INFORMATION PRESENTED ON THIS SHEET IS BASED ON DESIGN GRADES AND BEST AVAILABLE MAPPING INFORMATION. EXISTING ELEVATIONS AT TIE IN POINTS AND AS-CONSTRUCTED FINISH FLOOR ELEVATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF EXTERIOR IMPROVEMENTS. NOTIFY ENGINEER IF DIFFERENT CONDITIONS ARE FOUND. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS. CONTRACTOR ALSO RESPONSIBLE FOR ADA COMPLIANCE FOR CONSTRUCTED IMPROVEMENTS.
- WHERE NEW CURB AND GUTTER IS BEING CONSTRUCTED ADJACENT TO EXISTING ASPHALT OR CONCRETE PAVEMENT, THE FOLLOWING SHALL APPLY: PRIOR TO PLACEMENT OF ANY CONCRETE THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR VERIFY THE GRADE AND CROSS SLOPE OF THE CURB AND GUTTER FORMS. THE CONTRACTOR SHALL SUBMIT THE SLOPES AND GRADES TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SECTION WHICH DOES NOT CONFORM TO THE DESIGN OR TYPICAL CROSS SECTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CURB AND GUTTER CONSTRUCTION WITHOUT THE APPROVAL OF THE ENGINEER.
- 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 AS SHOWN BY THE DRAWING, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION.
- EXCEPT WHERE NOTED, ELEVATION DIFFERENCES BETWEEN TOP BACK OF CURB IS 0.58 FEET FOR SPILL CURB AND 0.42 FOR CATCH CURB.

## GRADING PLAN COORDINATION NOTES:

- ENSURE POSITIVE DRAINAGE TOWARDS CURB CUT IN NEW ASPHALT AREAS.
- ENSURE ACCESSIBLE PARKING SPACES ARE IN COMPLIANCE WITH ADA STANDARDS. ENSURE ALL SLOPES ARE LESS THAN 2% IN ALL DIRECTIONS.
- ENSURE ACCESSIBLE ROUTE TO BUILDINGS COMPLY WITH ALL ADA REQUIREMENTS: LANDING AREAS-LESS THAN 2% SLOPE IN ALL DIRECTIONS, OTHER AREAS-LESS THAN 5% RUNNING SLOPE AND LESS THAN 2% CROSS SLOPE.
- ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING IN LANDSCAPE AREAS
- GRADE IN SHALLOW DRAINAGE PATHWAY. ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALK CHANNEL DRAINS.
- ADJUST CHANNEL DEPTH OF OF SIDEWALK DRAIN AS NEEDED. ENSURE 6 INCH MINIMUM CHANNEL DEPTH AS DEPICTED ON DETAIL 4 ON SHEET C5.2.



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59808**

## GRADING PLAN

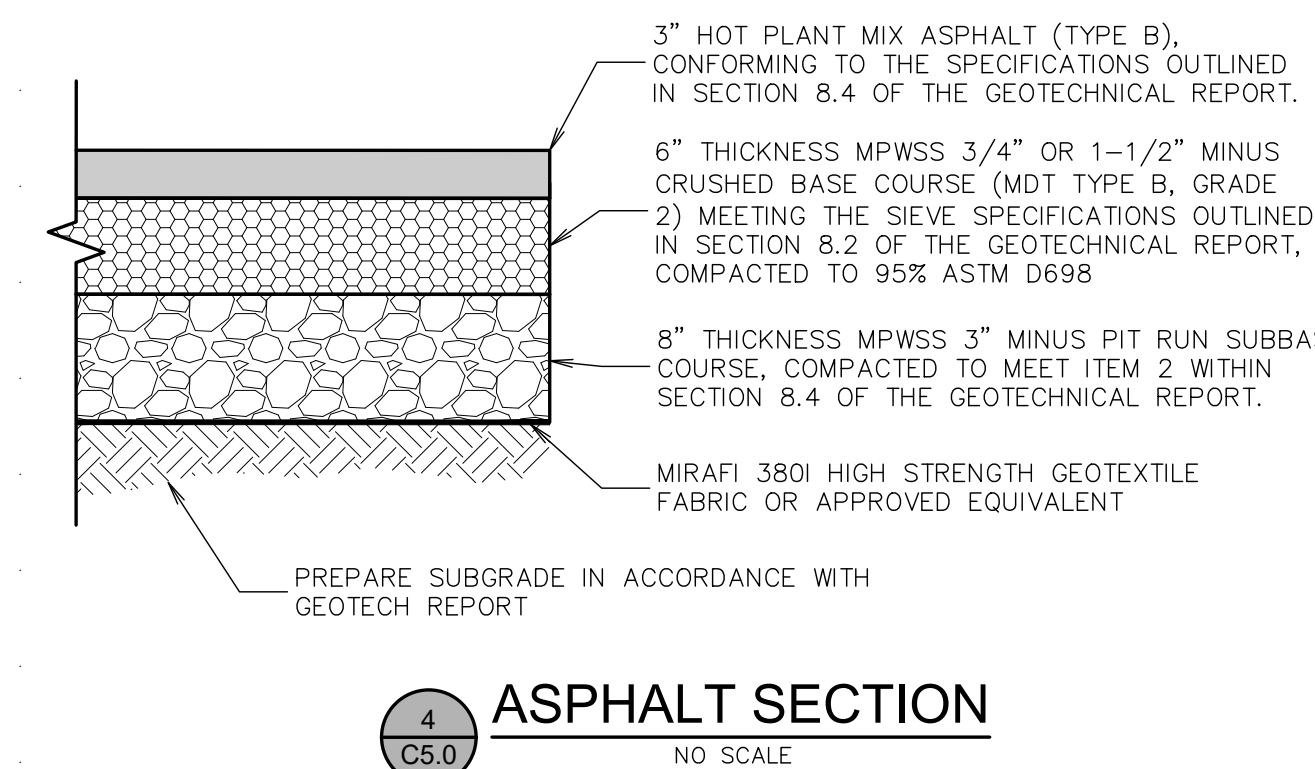
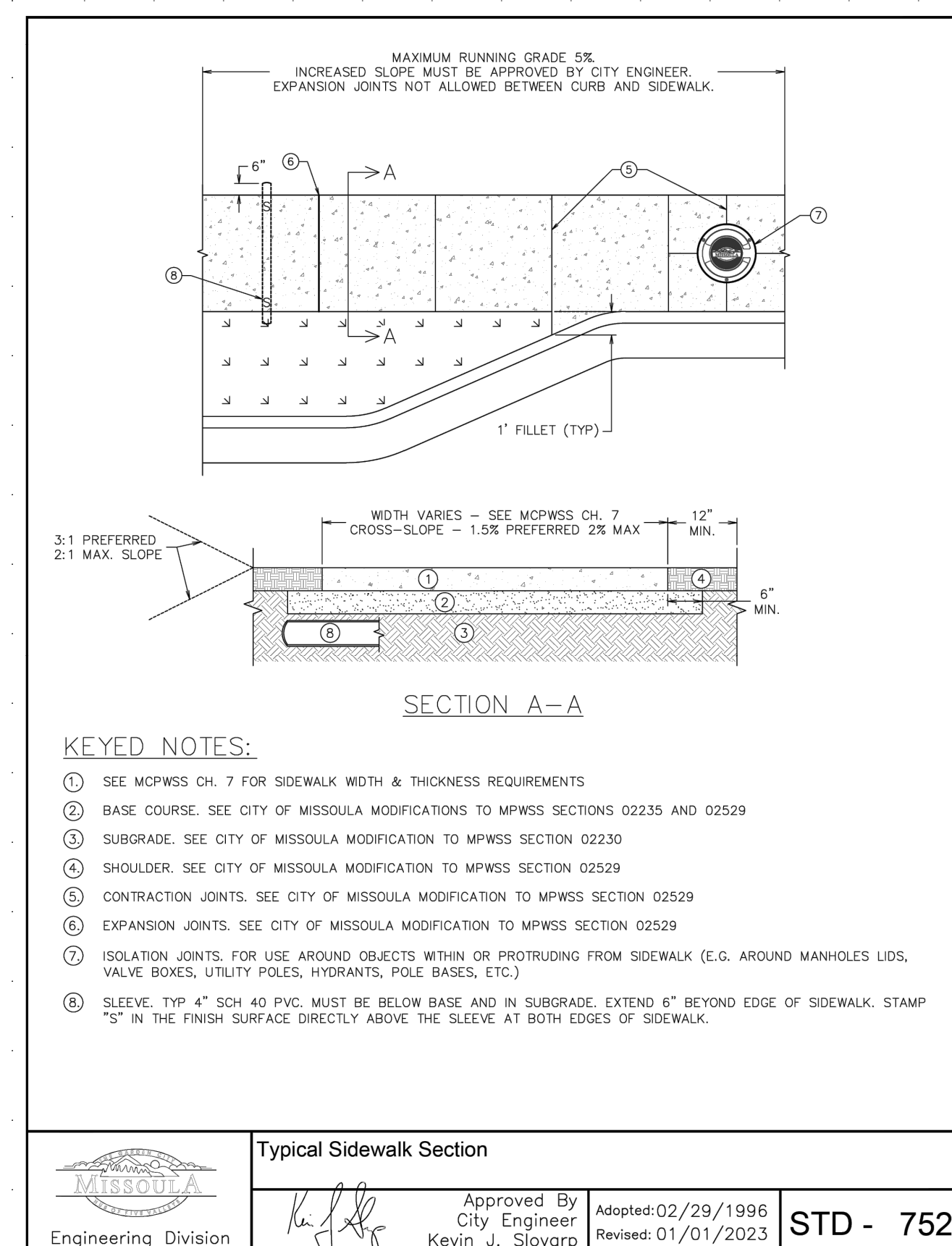
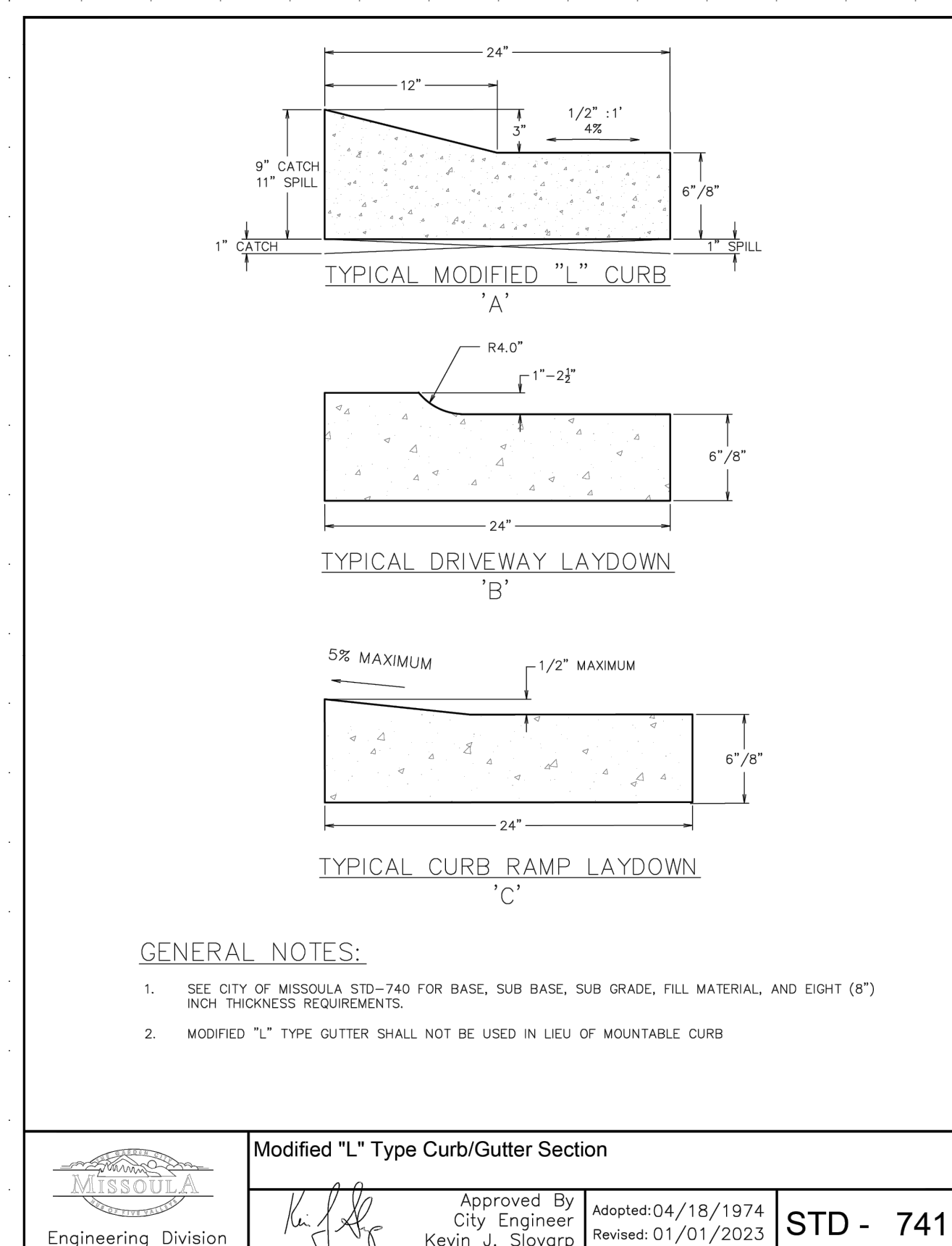
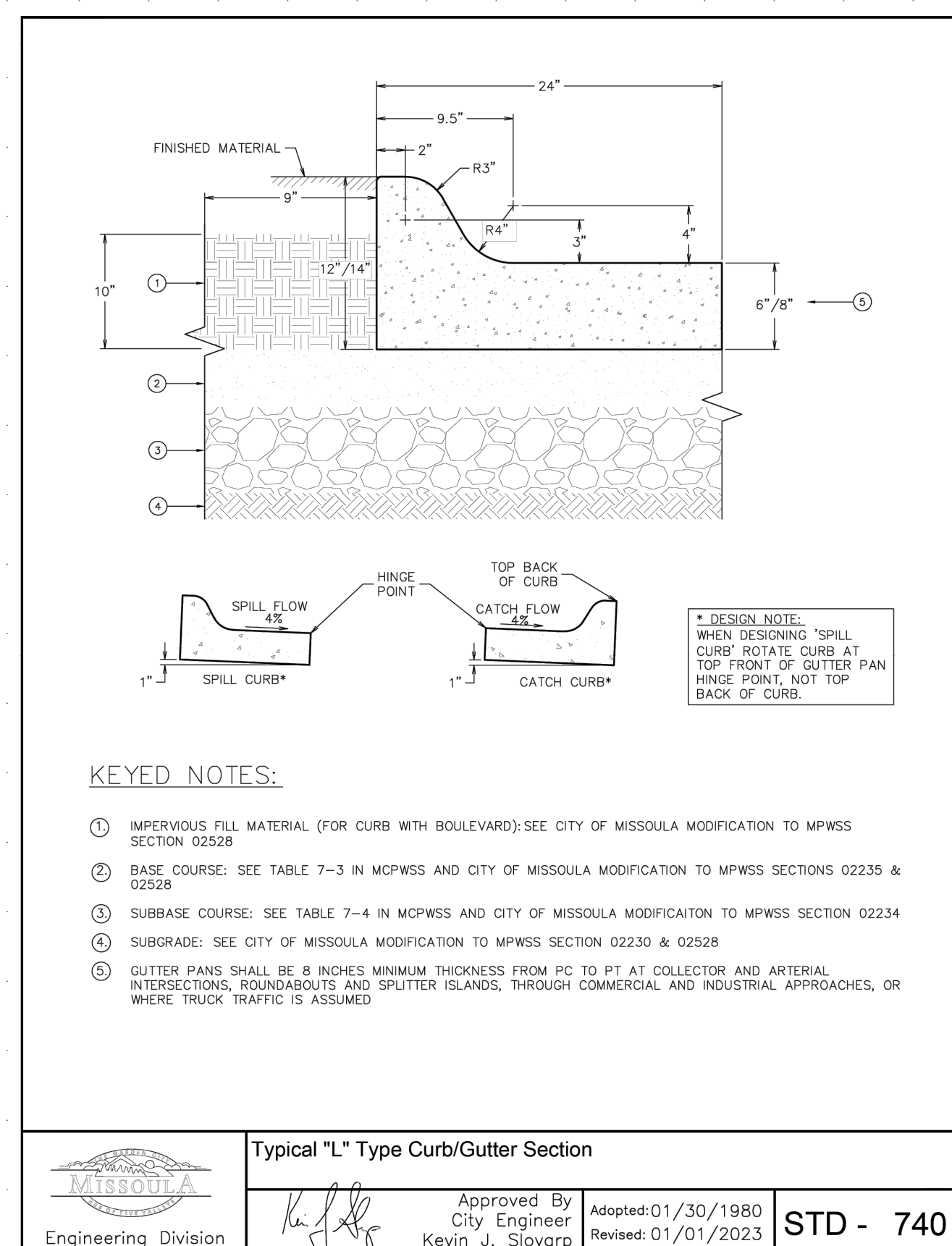
Date: 2024.03.29 Project No: 22.074

# C4.0



**100% CONSTRUCTION DOCUMENTS**

Revision Schedule		
Number	Description	Date



**Typical "L" Type Curb/Gutter Section**

Engineering Division

Approved By  
City Engineer  
Kevin J. Slovarg

Adopted: 01/30/1980  
Revised: 01/01/2023

**STD - 740**

1  
C5.0

**Modified "L" Type Curb/Gutter Section**

Engineering Division

Approved By  
City Engineer  
Kevin J. Slovarg

Adopted: 04/18/1974  
Revised: 01/01/2023

**STD - 741**

2  
C5.0

**Typical Sidewalk Section**

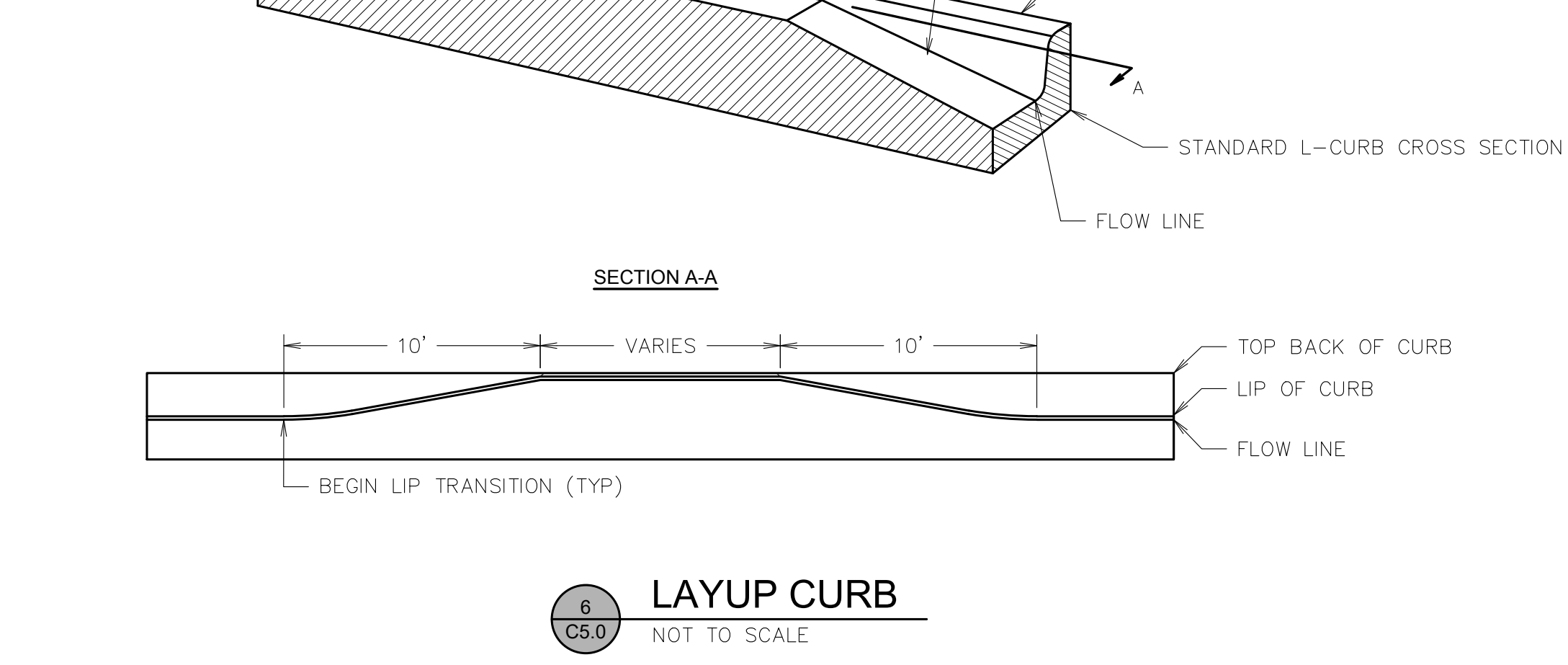
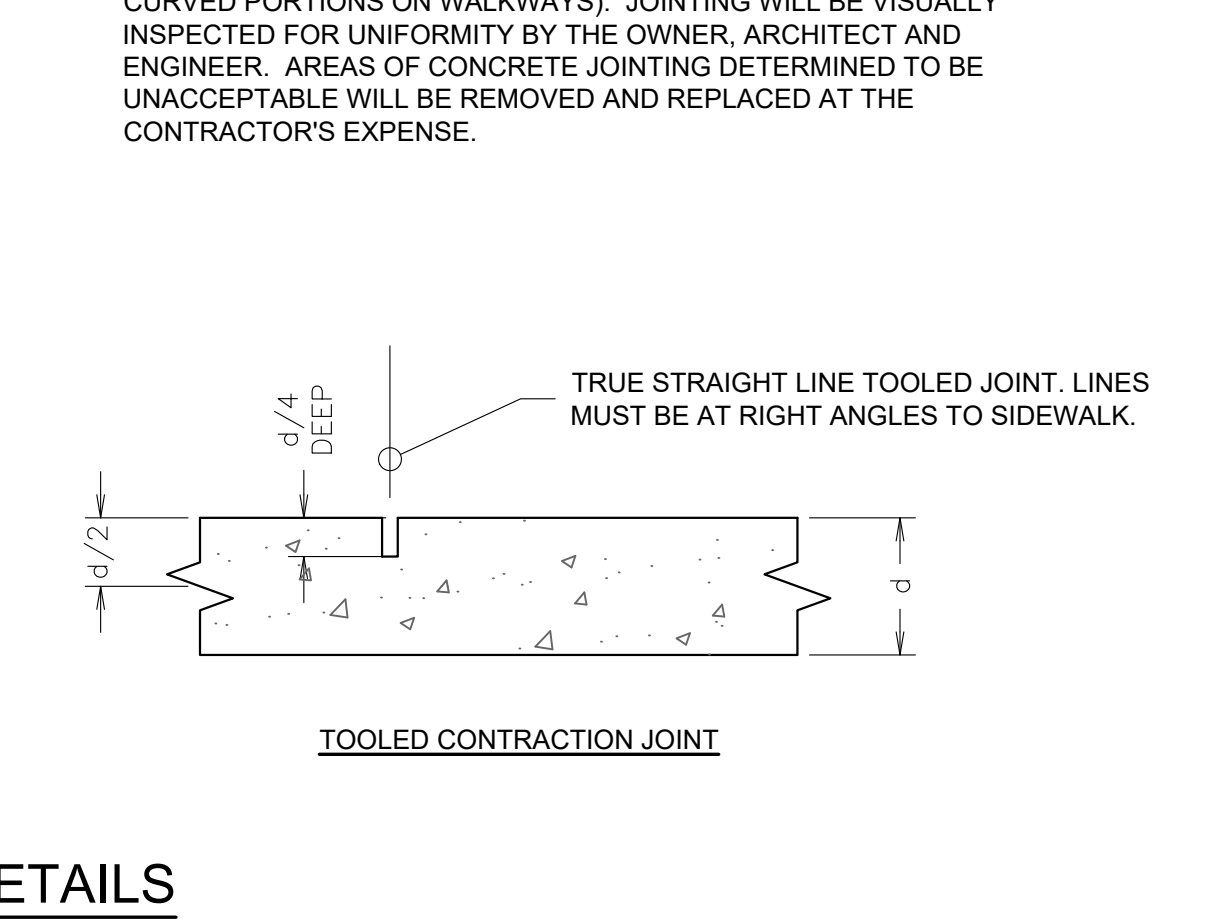
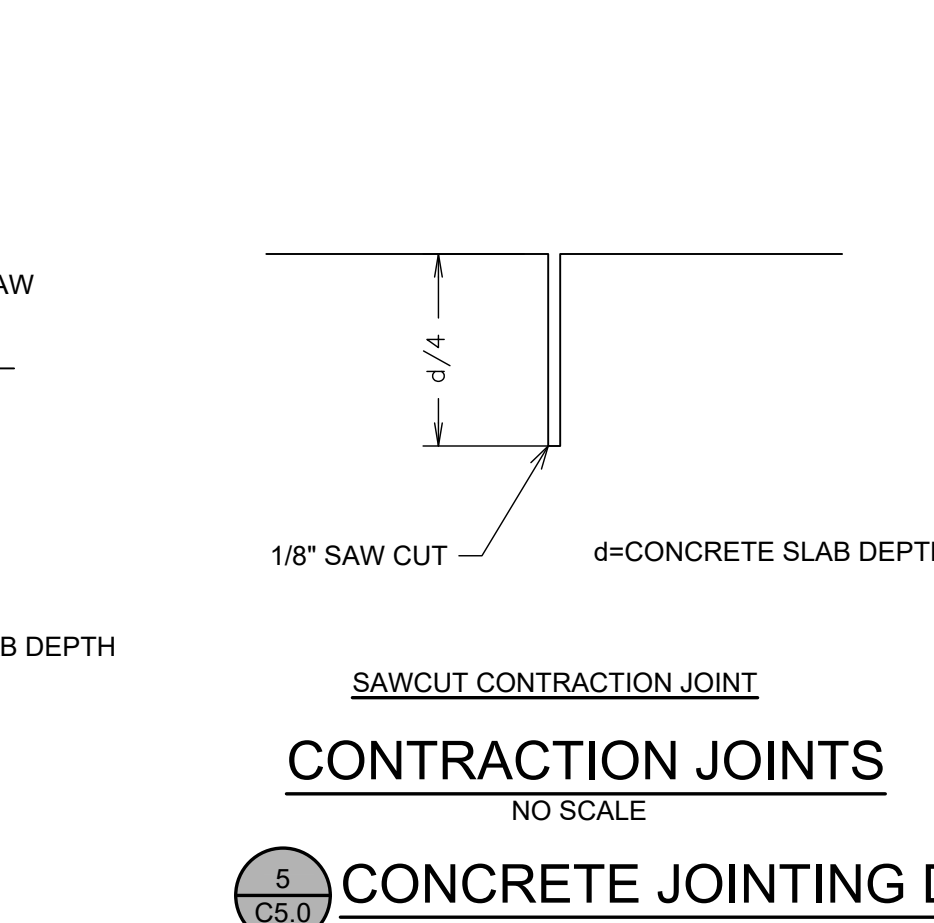
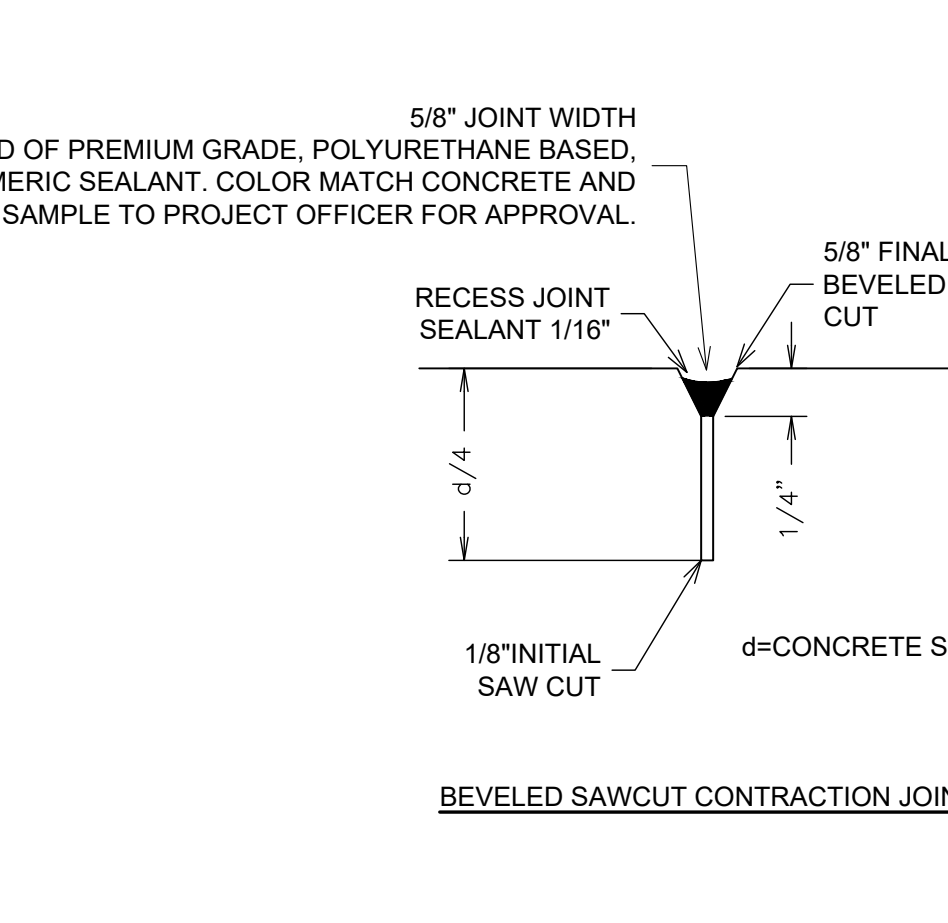
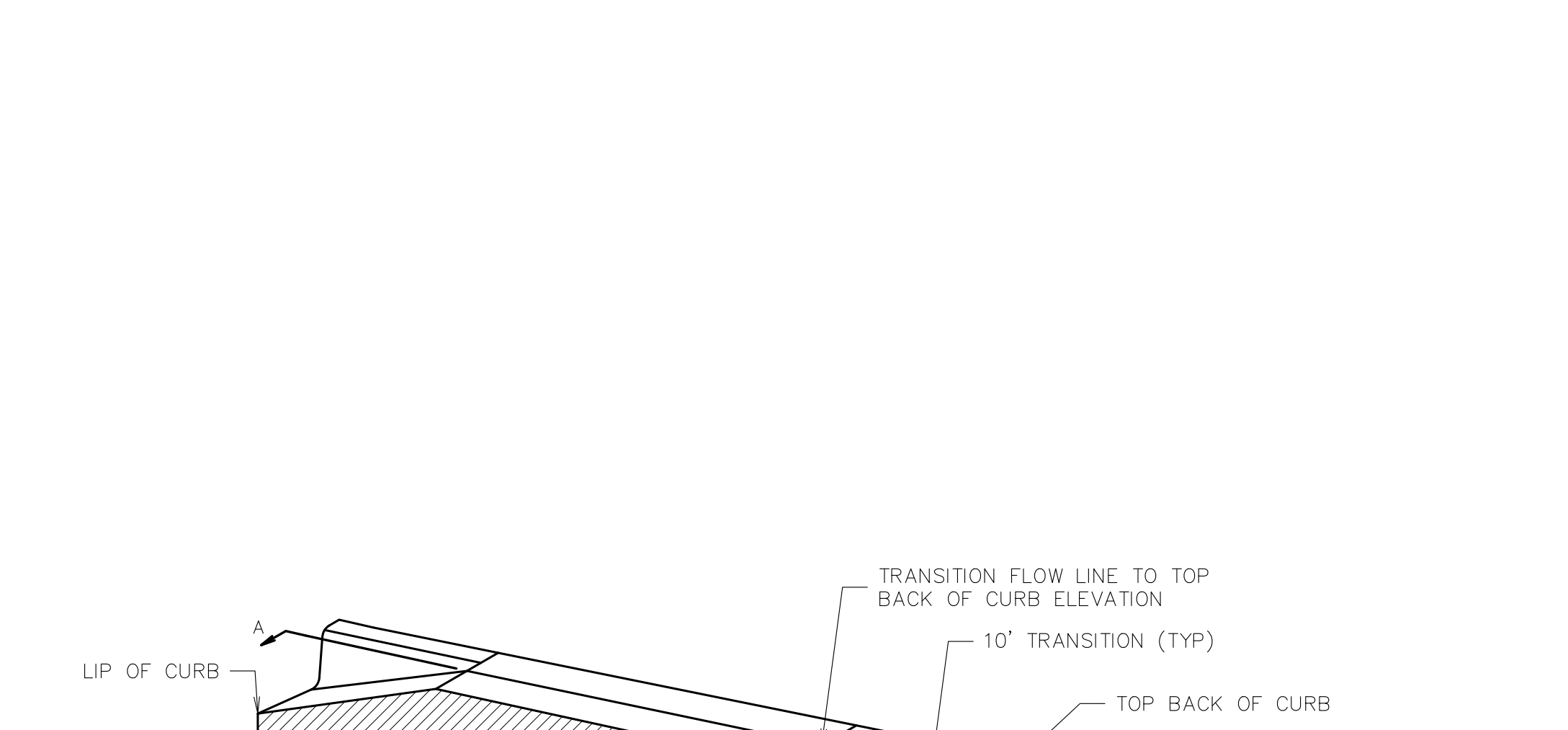
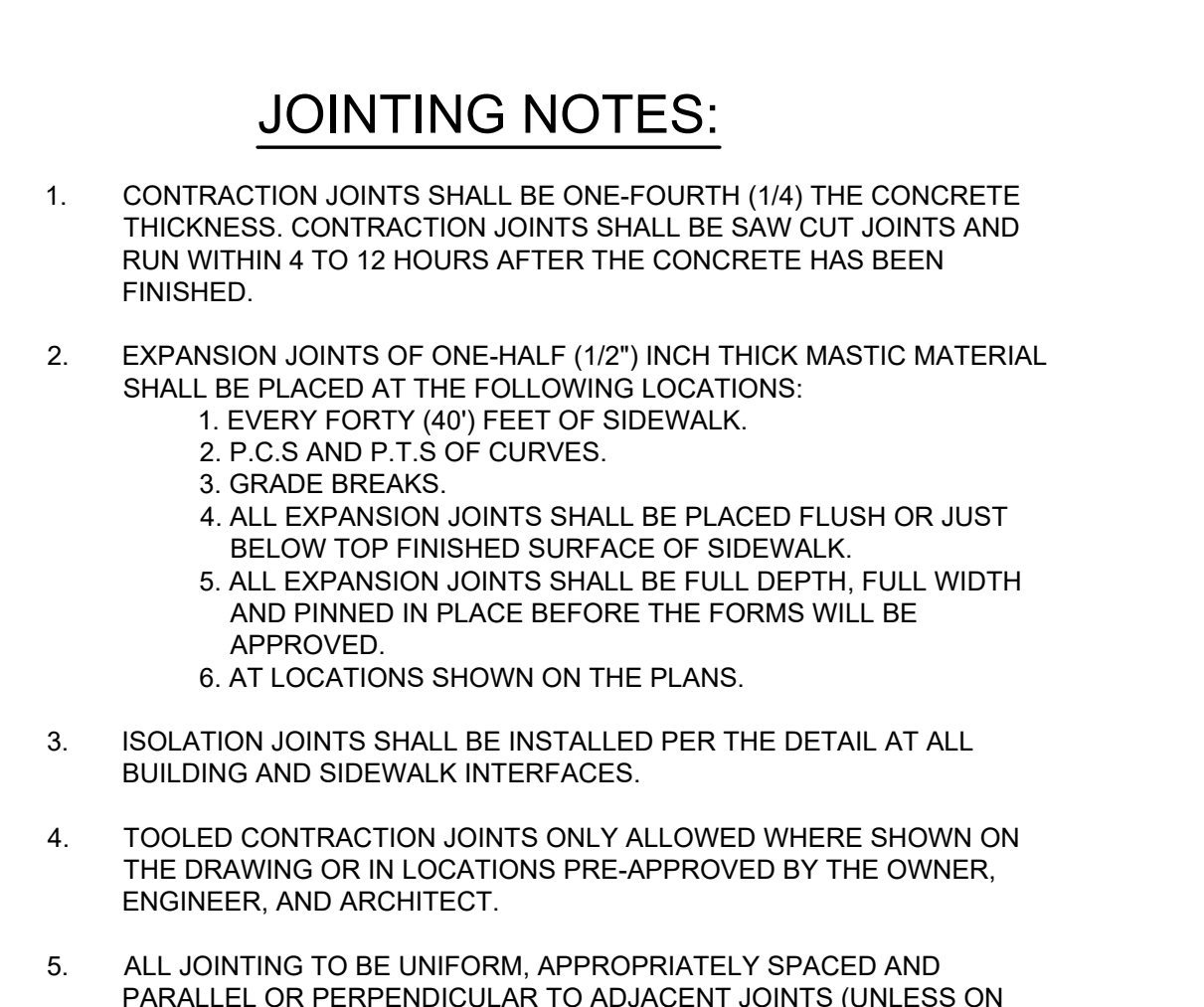
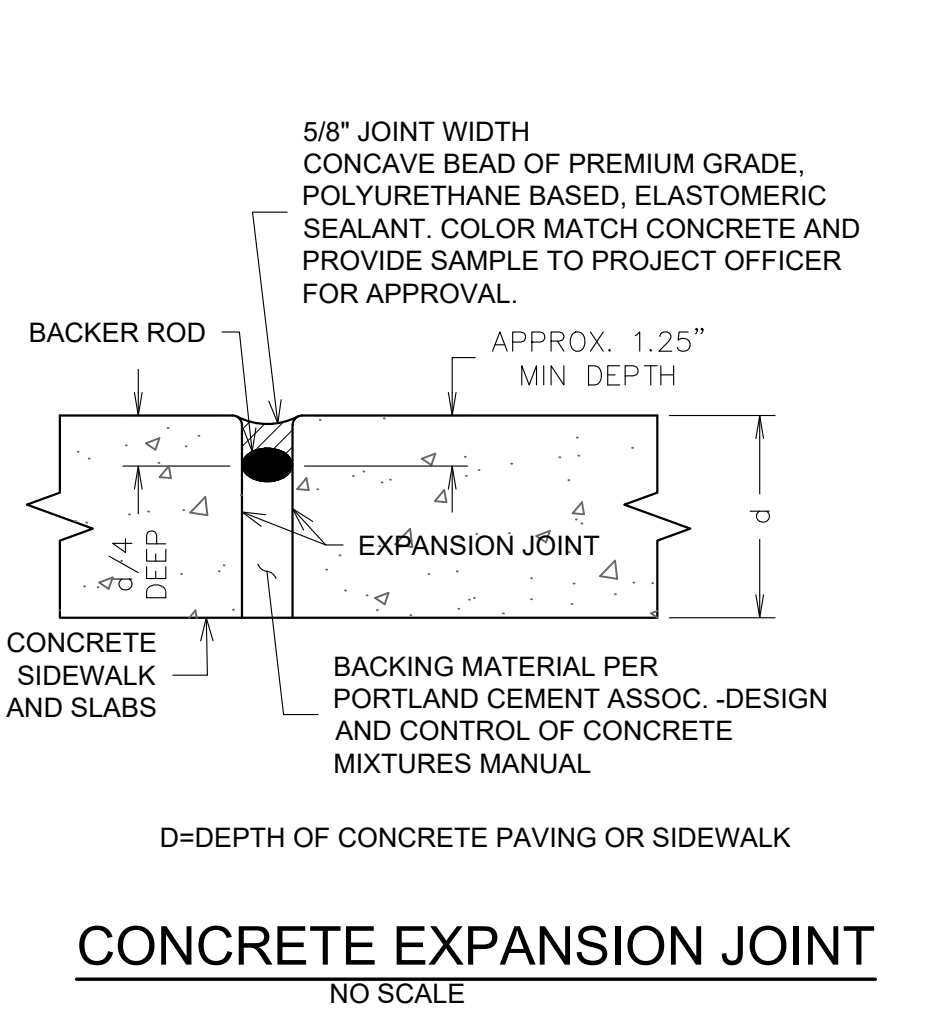
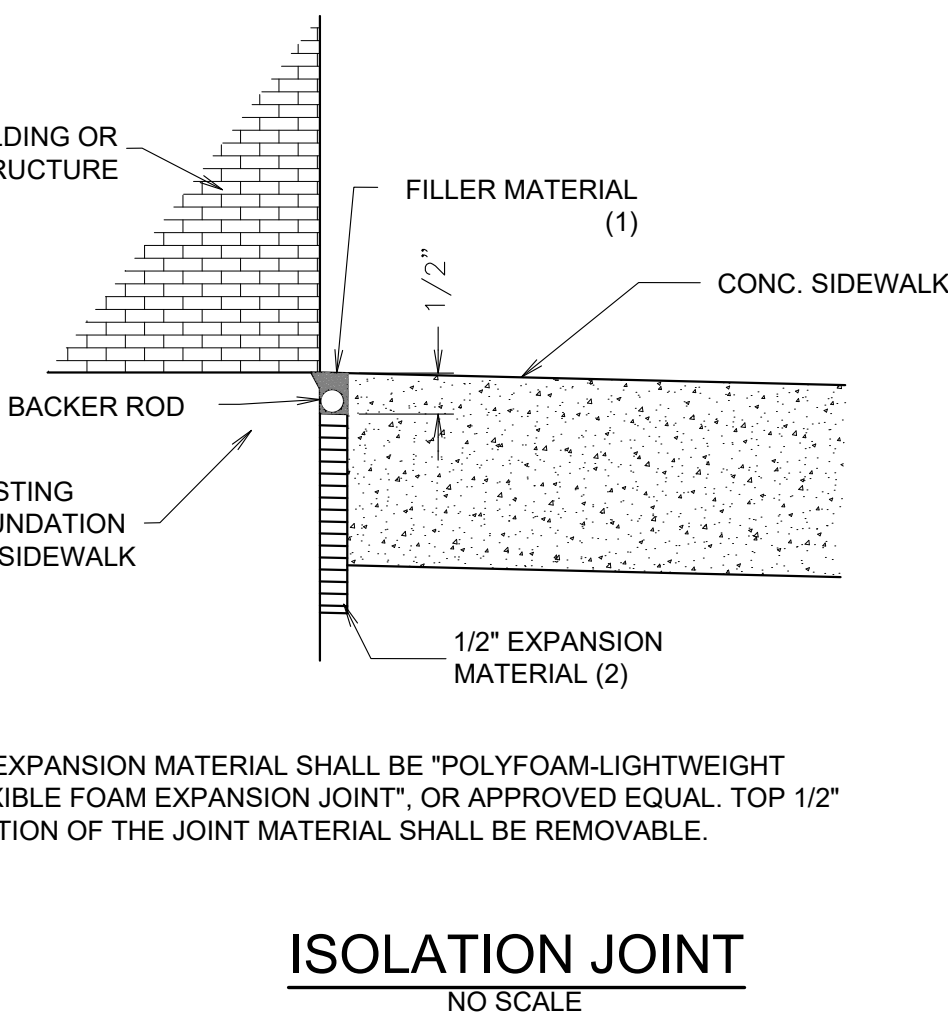
Engineering Division

Approved By  
City Engineer  
Kevin J. Slovarg

Adopted: 02/29/1996  
Revised: 01/01/2023

**STD - 752**

3  
C5.0



**ISOLATION JOINT**  
NO SCALE

1) 1/2" EXPANSION MATERIAL SHALL BE "POLYFOAM-LIGHTWEIGHT FLEXIBLE FOAM EXPANSION JOINT", OR APPROVED EQUAL. TOP 1/2" PORTION OF THE JOINT MATERIAL SHALL BE REMOVABLE.

**CONCRETE EXPANSION JOINT**  
NO SCALE

D=DEPTH OF CONCRETE PAVING OR SIDEWALK

**CONTRACTION JOINTS**  
NO SCALE

**CONCRETE JOINTING DETAILS**

5  
C5.0

**JOINTING NOTES:**

- CONTRACTION JOINTS SHALL BE ONE-FOURTH (1/4) THE CONCRETE THICKNESS. CONTRACTION JOINTS SHALL BE SAW CUT JOINTS AND RUN WITHIN 4 TO 12 HOURS AFTER THE CONCRETE HAS BEEN FINISHED.
- EXPANSION JOINTS OF ONE-HALF (1/2) INCH THICK MASTIC MATERIAL SHALL BE PLACED AT THE FOLLOWING LOCATIONS:
  - EVERY FORTY (40) FEET OF SIDEWALK.
  - P.C.S AND P.T.S OF CURVES.
  - GRADE BREAKS.
  - ALL EXPANSION JOINTS SHALL BE PLACED FLUSH OR JUST BELOW TOP FINISHED SURFACE OF SIDEWALK.
  - ALL EXPANSION JOINTS SHALL BE FULL DEPTH, FULL WIDTH AND PINNED IN PLACE BEFORE THE FORMS WILL BE APPROVED.
  - AT LOCATIONS SHOWN ON THE PLANS.
- ISOLATION JOINTS SHALL BE INSTALLED PER THE DETAIL AT ALL BUILDING AND SIDEWALK INTERFACES.
- TOOLED CONTRACTION JOINTS ONLY ALLOWED WHERE SHOWN ON THE DRAWING OR IN LOCATIONS PRE-APPROVED BY THE OWNER, ENGINEER, AND ARCHITECT.
- ALL JOINTING TO BE UNIFORM, APPROPRIATELY SPACED AND PARALLEL OR PERPENDICULAR TO ADJACENT JOINTS (UNLESS ON CURVED PORTIONS ON WALKWAYS). JOINTING WILL BE VISUALLY INSPECTED FOR UNIFORMITY BY THE OWNER, ARCHITECT AND ENGINEER. AREAS OF CONCRETE JOINTING DETERMINED TO BE UNACCEPTABLE WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

**ASPHALT SECTION**  
NO SCALE

4  
C5.0

**LAYUP CURB**  
NOT TO SCALE

6  
C5.0



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at  
**6700 BUTLER CREEK ROAD, MISSOULA, MT. 59808**

**CIVIL DETAILS**

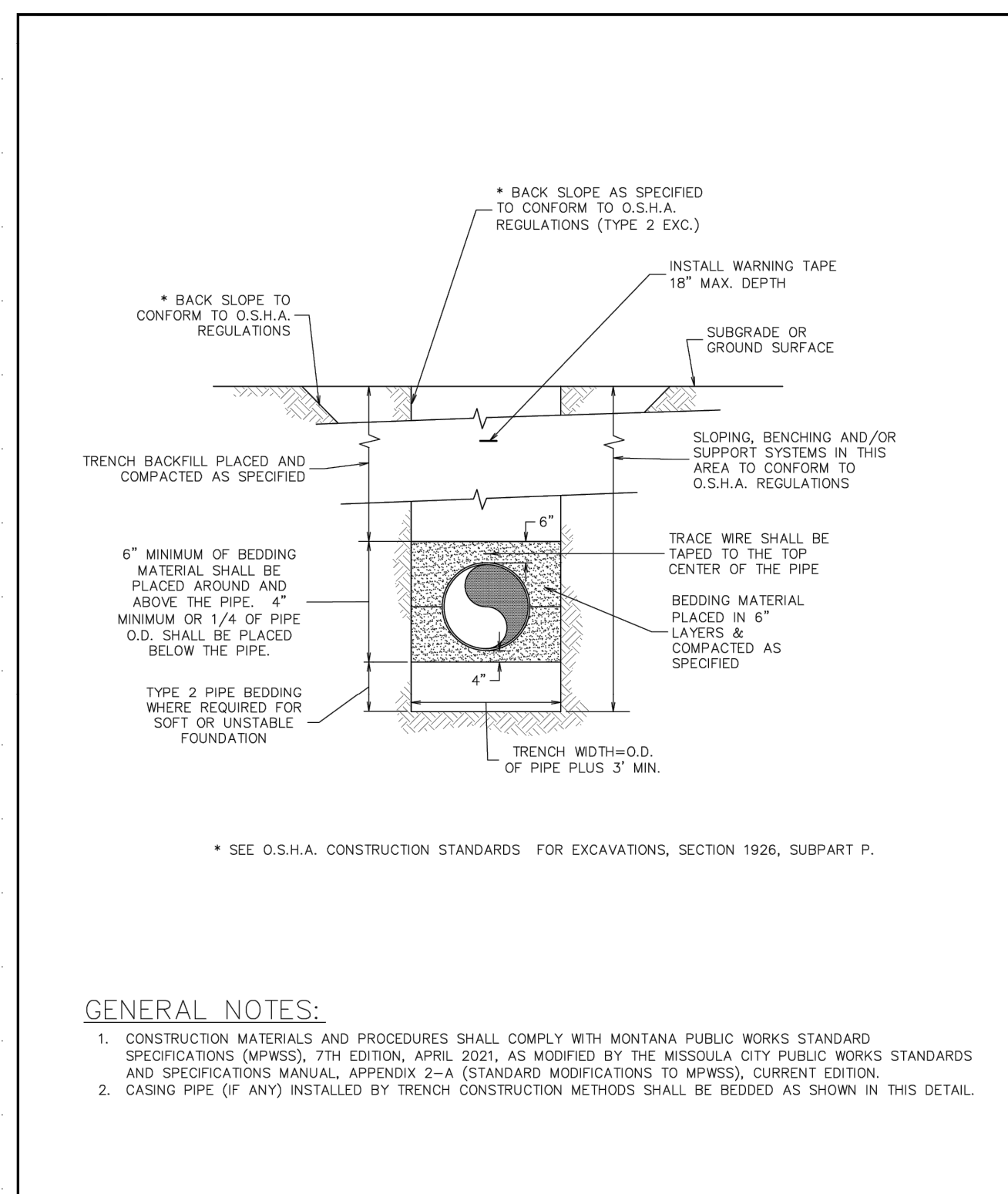
Date: 2024.03.29 Project No: 22.074

**C5.0**



# 100% CONSTRUCTION DOCUMENTS

Revision Schedule		
Number	Description	Date

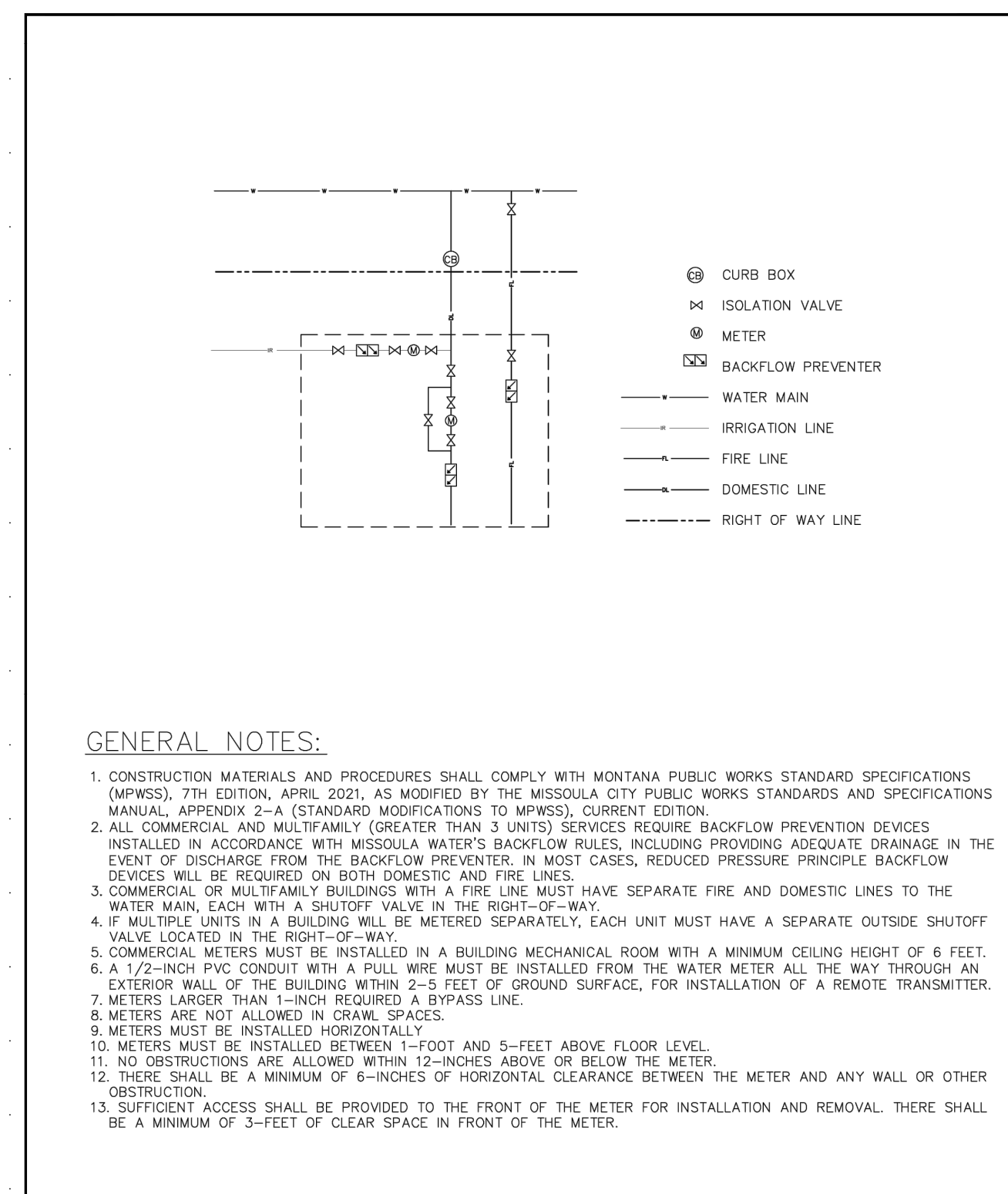


**Typical Utility Trench Detail**

Approved By: Utilities Engineer Logan McInnis, PE  
 Adopted: 09/28/2020  
 Revised: 01/01/2023

**STD - 401**

1 CS.1

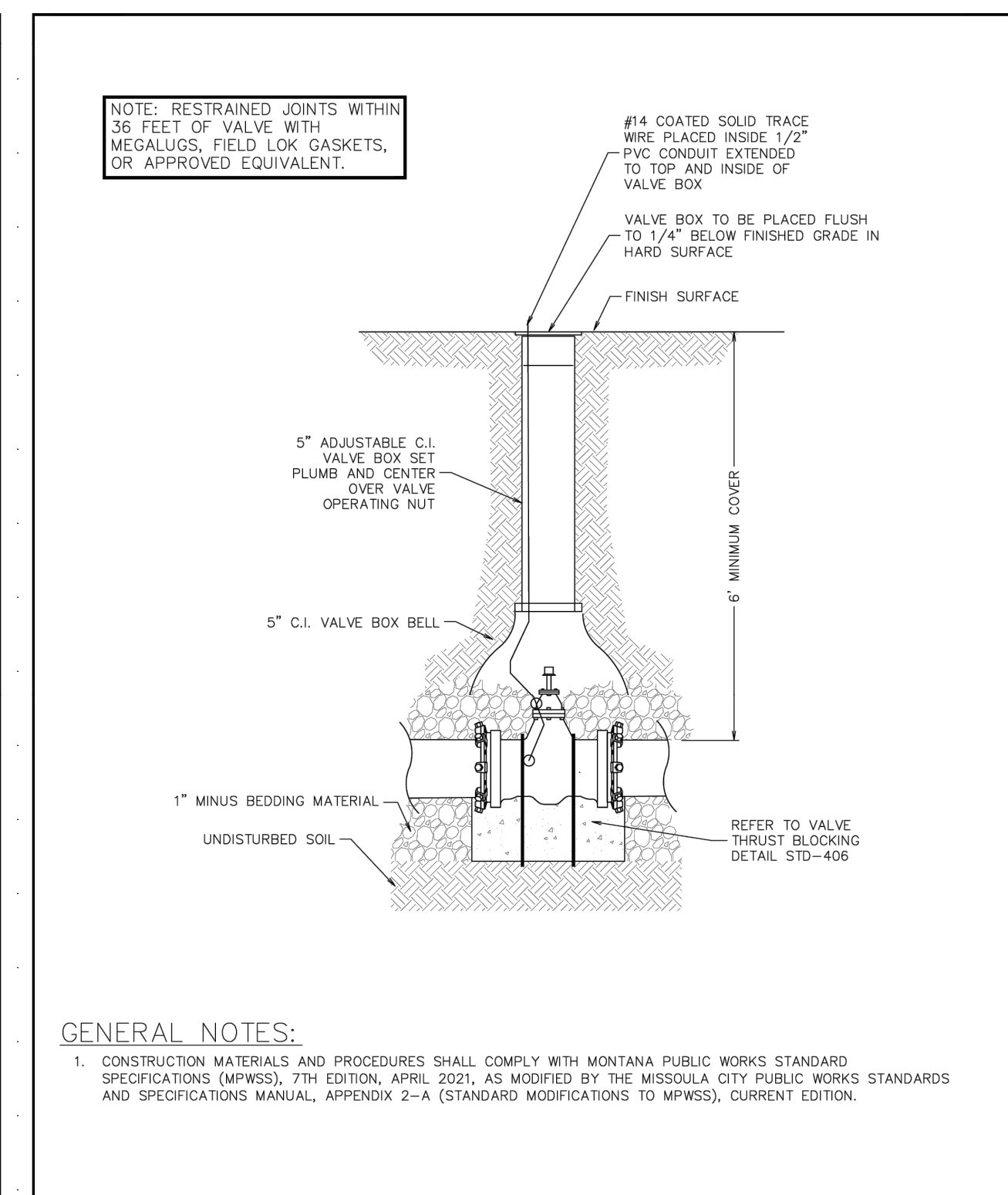


**Typical Commercial & Multi-Family Water Service Detail**

Approved By: Utilities Engineer Logan McInnis, PE  
 Adopted: 09/28/2020  
 Revised: 01/01/2023

**STD - 403**

2 CS.1

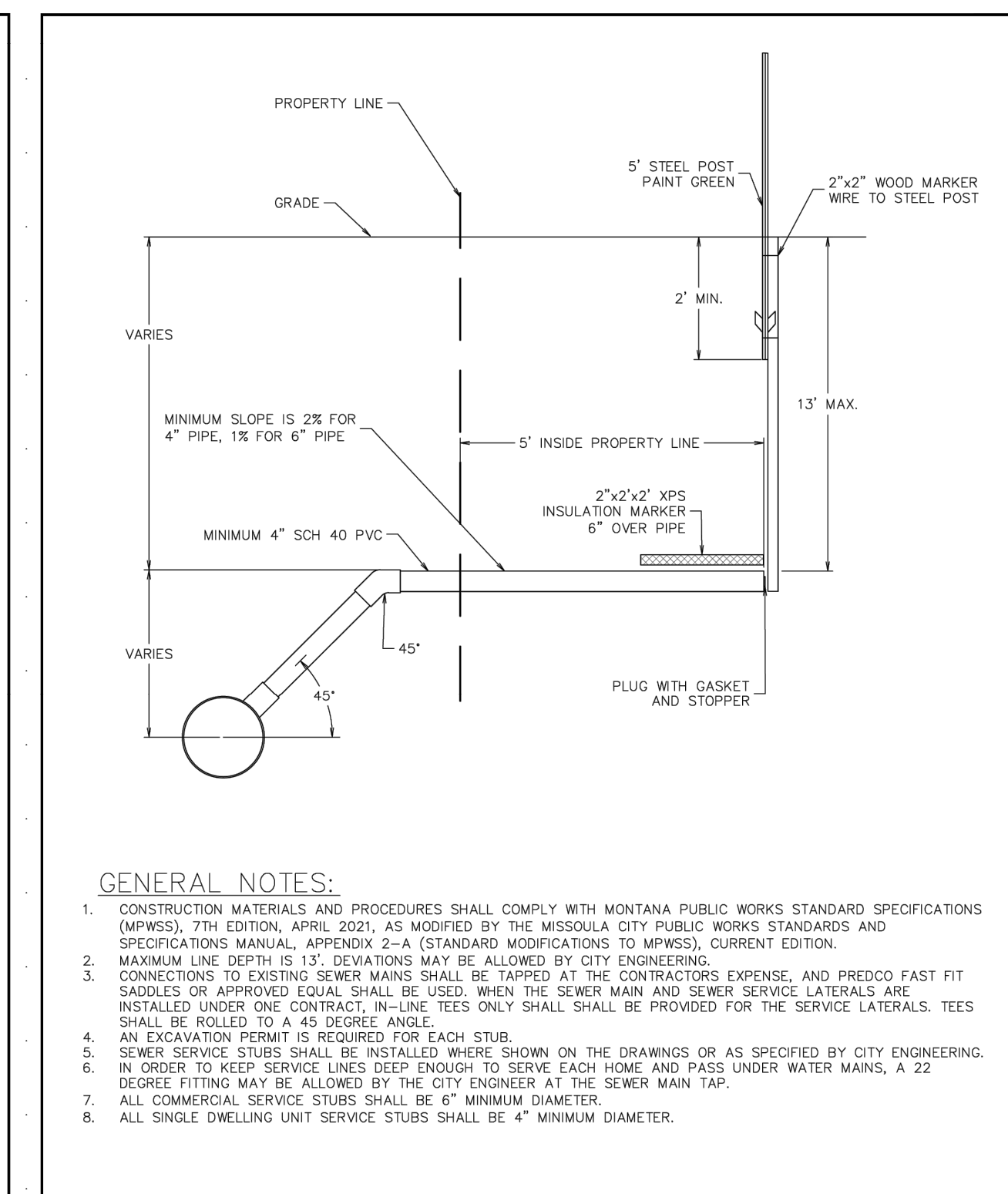


**Valve Detail**

Approved By: Utilities Engineer Logan McInnis, PE  
 Adopted: 09/28/2020  
 Revised: 01/01/2023

**STD - 405**

3 CS.1

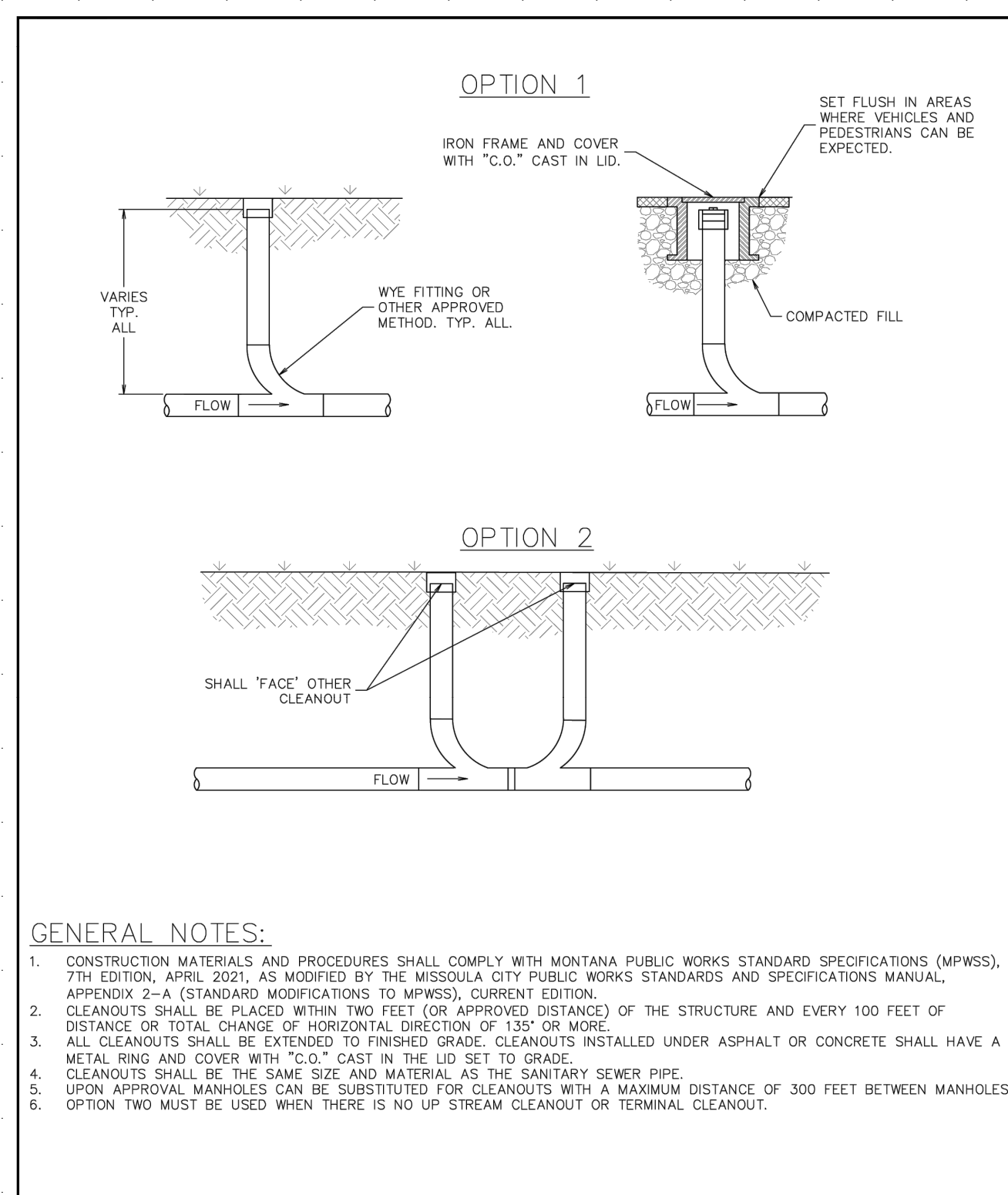


**Standard Sewer Service Stub**

Approved By: Project Manager Ross Mollenhauer, PE  
 Adopted: 09/28/2020  
 Revised: 01/01/2023

**STD - 520**

4 CS.1

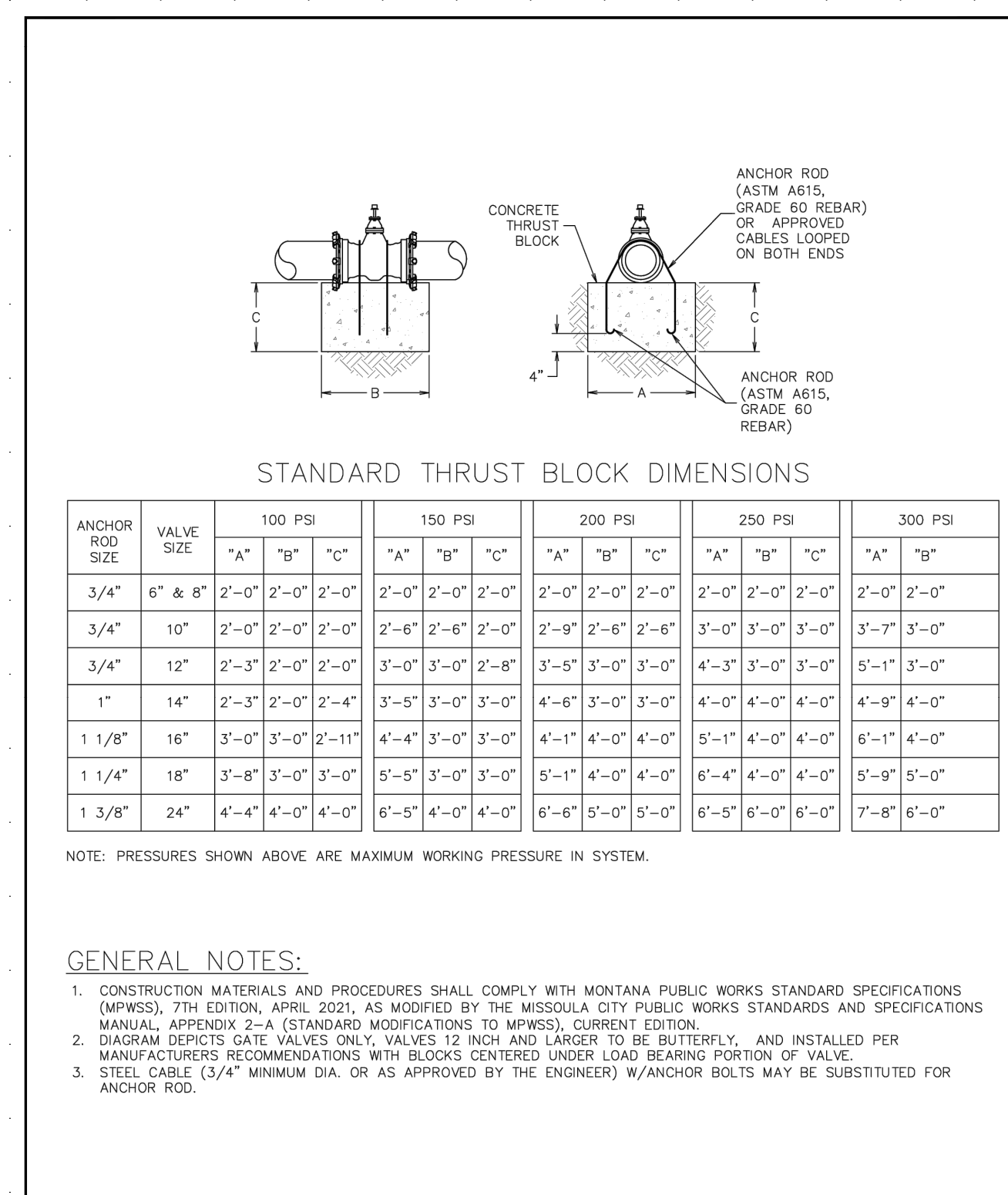


**Typical Clean-out Details**

Approved By: City Engineer Kevin J. Slovorp  
 Adopted: 03/2004  
 Revised: 01/01/2023

**STD - 521**

5 CS.1

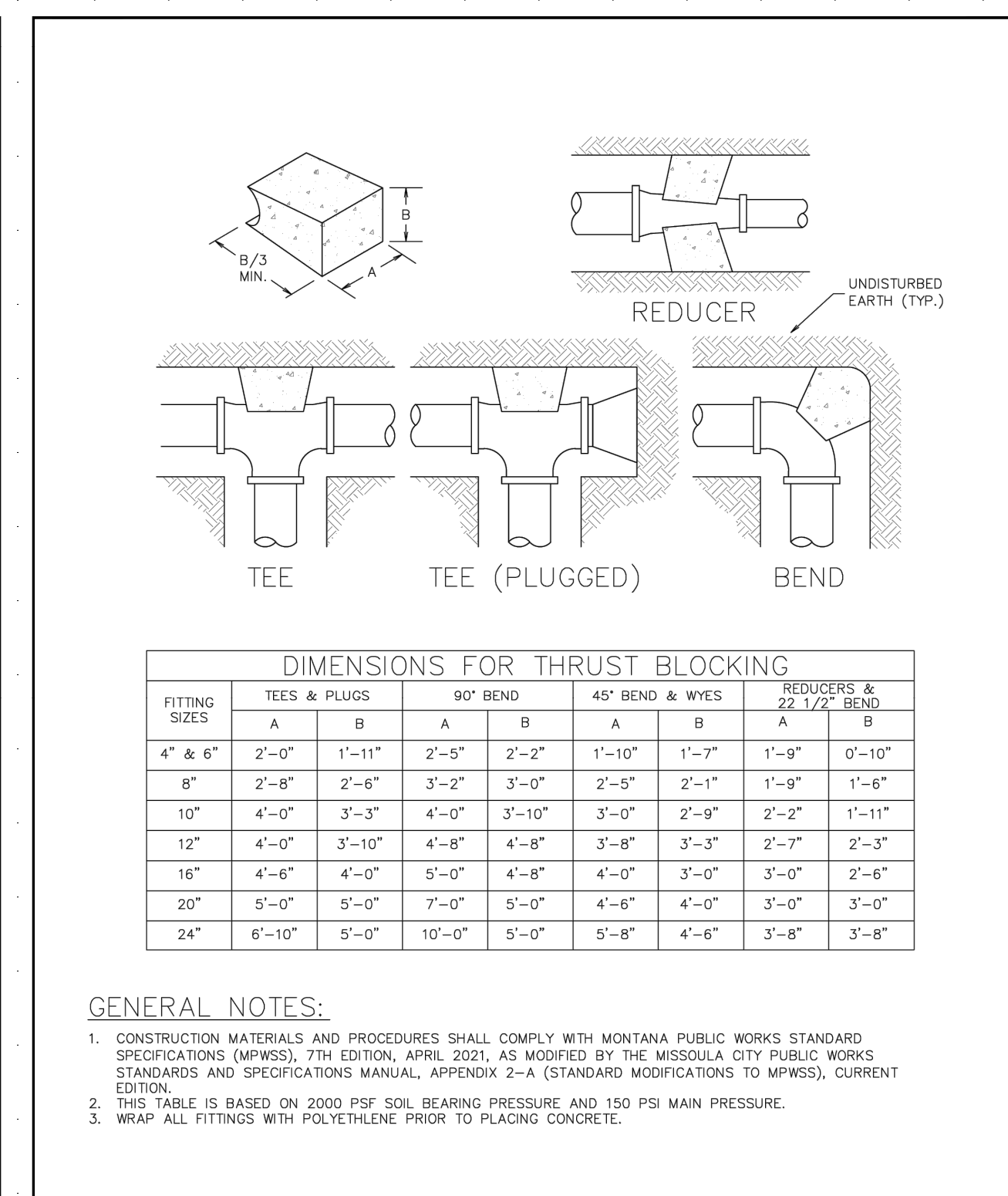


**Valve Thrust Blocking Detail**

Approved By: Utilities Engineer Logan McInnis, PE  
 Adopted: 09/28/2020  
 Revised: 01/01/2023

**STD - 406**

6 CS.1

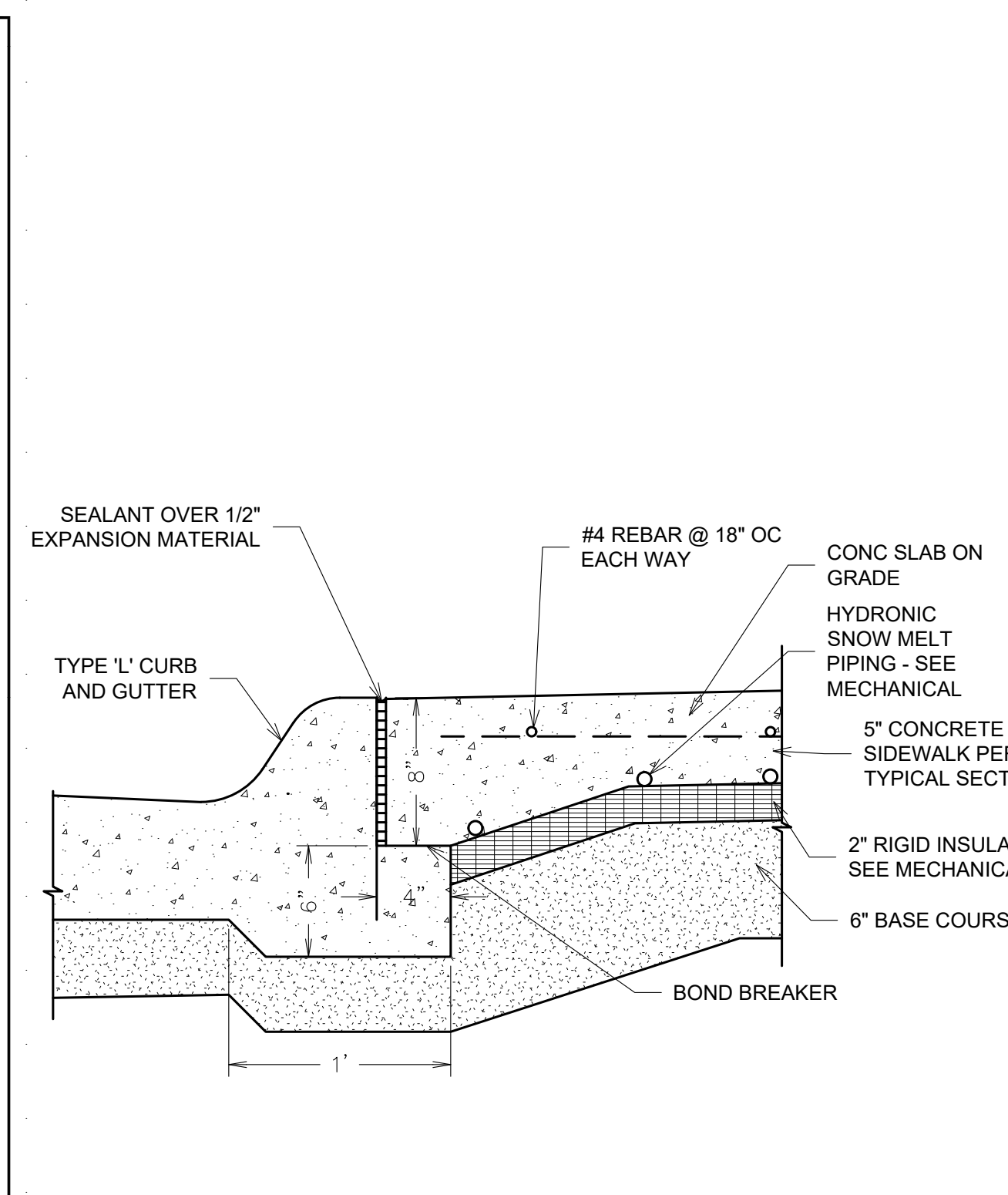


**Thrust Block Detail**

Approved By: Utilities Engineer Logan McInnis, PE  
 Adopted: 09/28/2020  
 Revised: 01/01/2023

**STD - 407**

7 CS.1



**HEATED SIDEWALK SECTION FOR PREFERENCE ONLY REFER TO MECHANICAL PLANS**

NOT TO SCALE

8 CS.1

**WGM GROUP**  
 www.wgmgroup.com  
 W:\Projects\191024\CAD\_Data\Design\19102401.dwg

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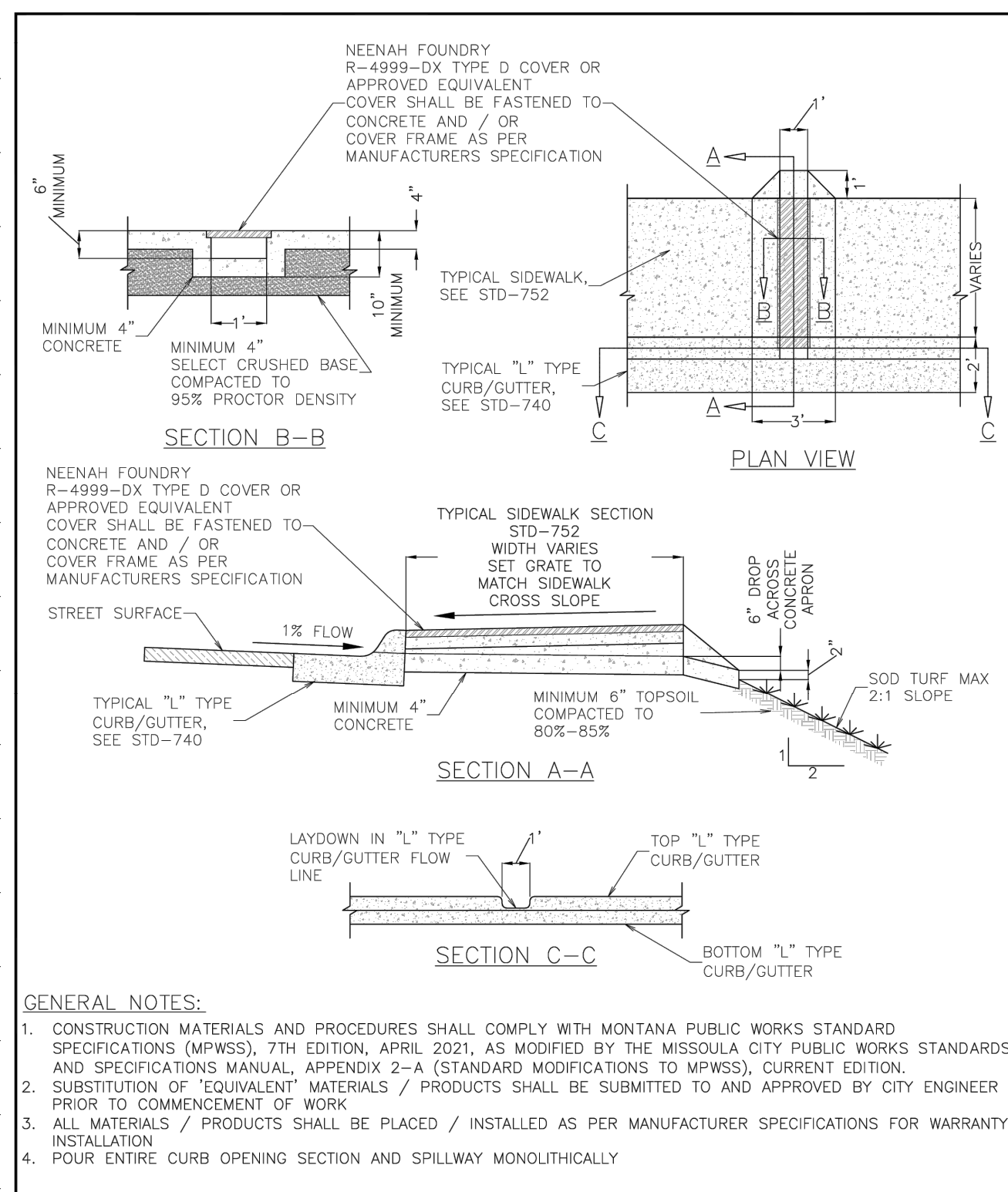
**CIVIL DETAILS**





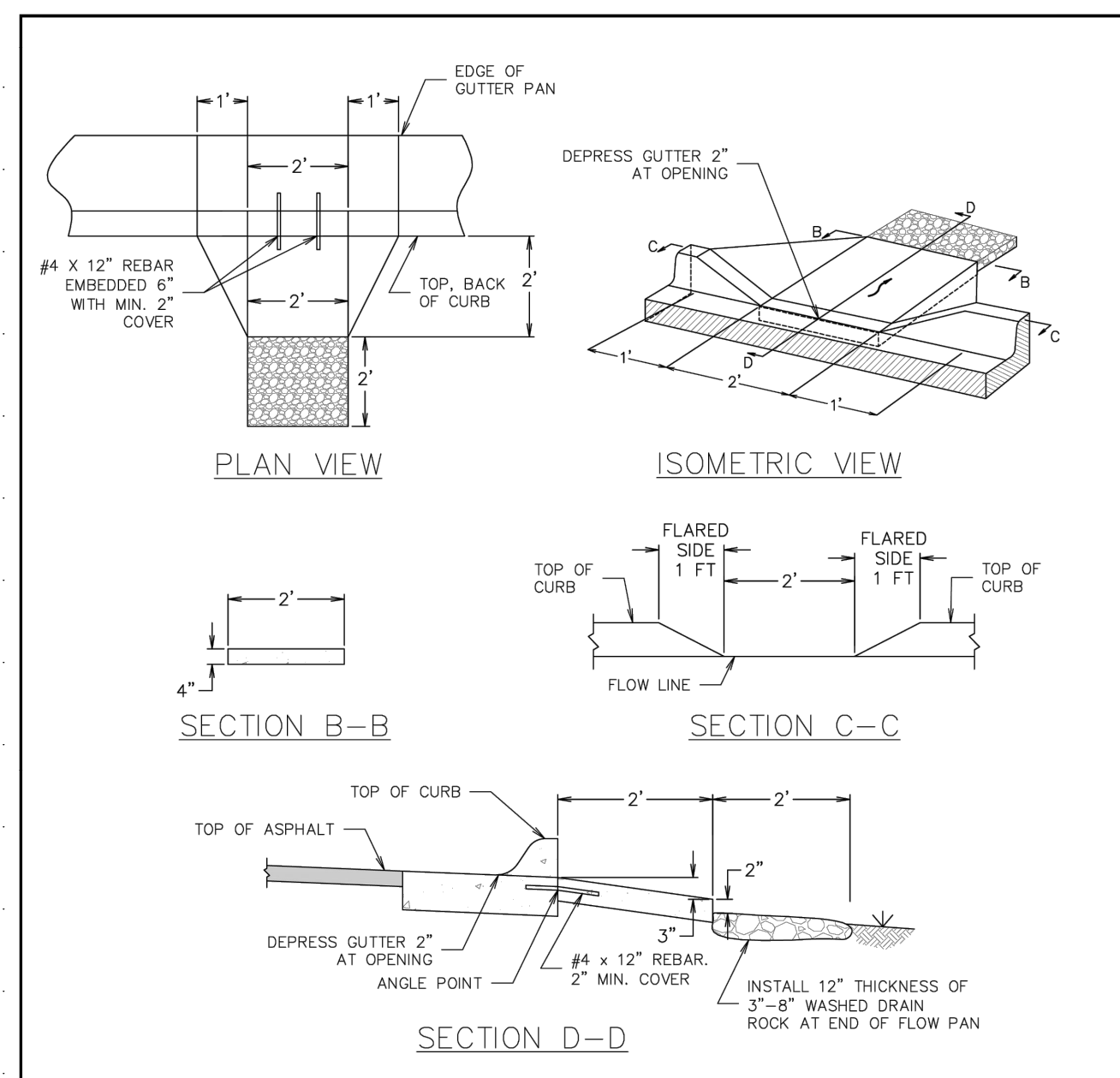
# 100% CONSTRUCTION DOCUMENTS

Revision Schedule		
Number	Description	Date



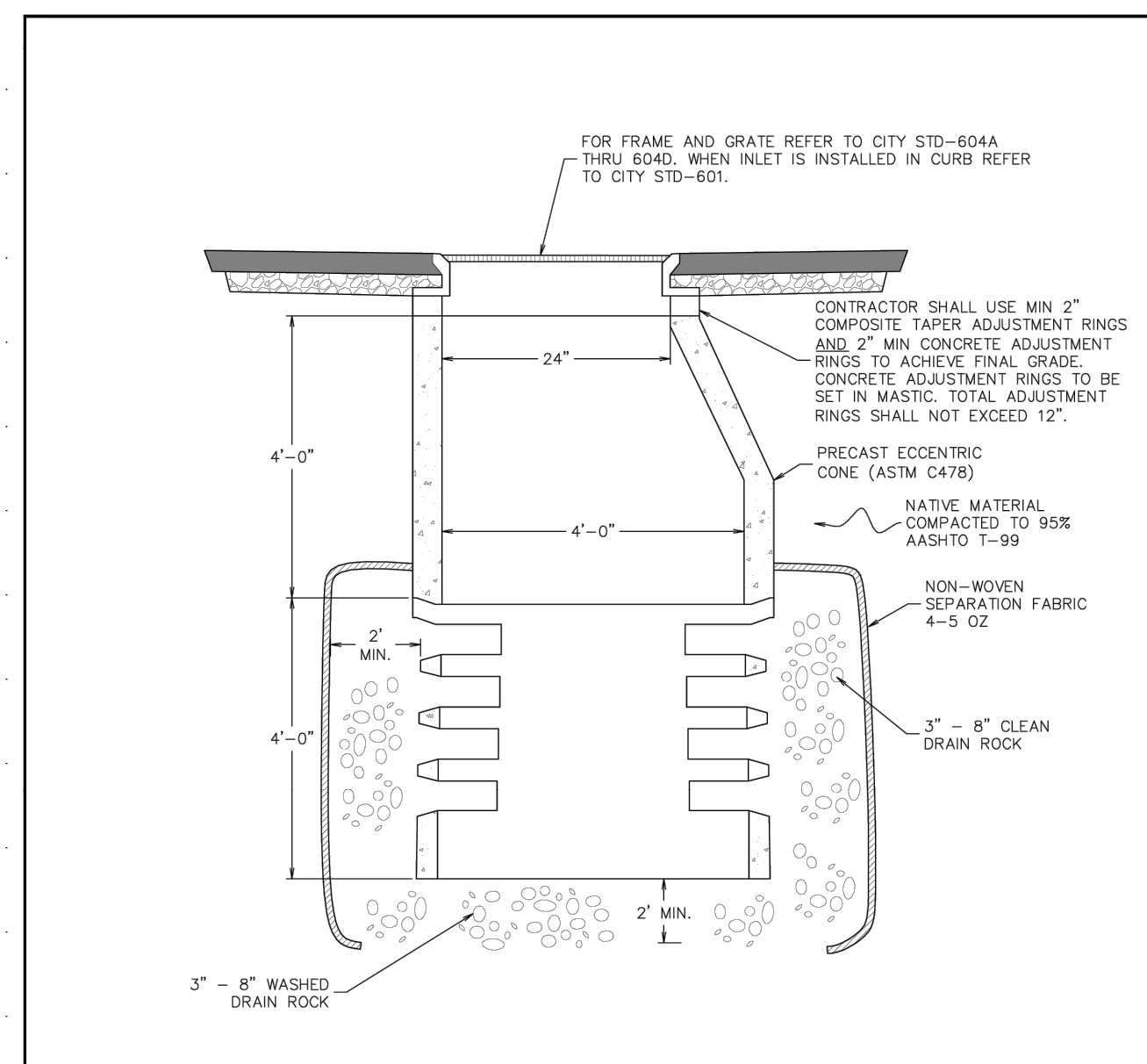
Curb Opening Through Sidewalk Section to Landscape			
	Approved By Utility Engineer Andy Schultz, PE	Revised: 01/01/2023	<b>STD - 608</b>

1  
C5.2



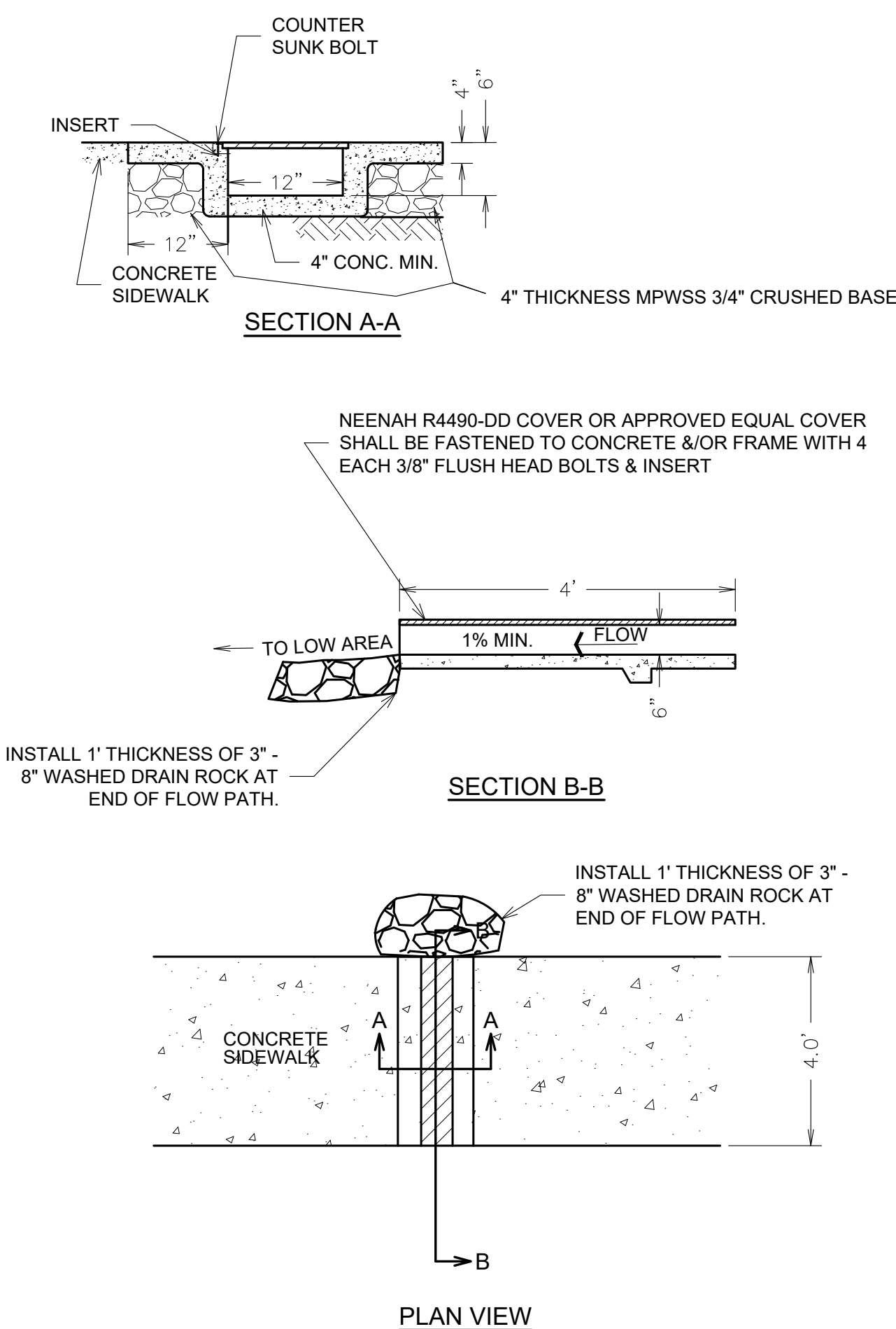
Curb Opening			
	Approved By Utility Engineer Andy Schultz, PE	Revised: 01/01/2023	<b>STD - 607</b>

2  
C5.2

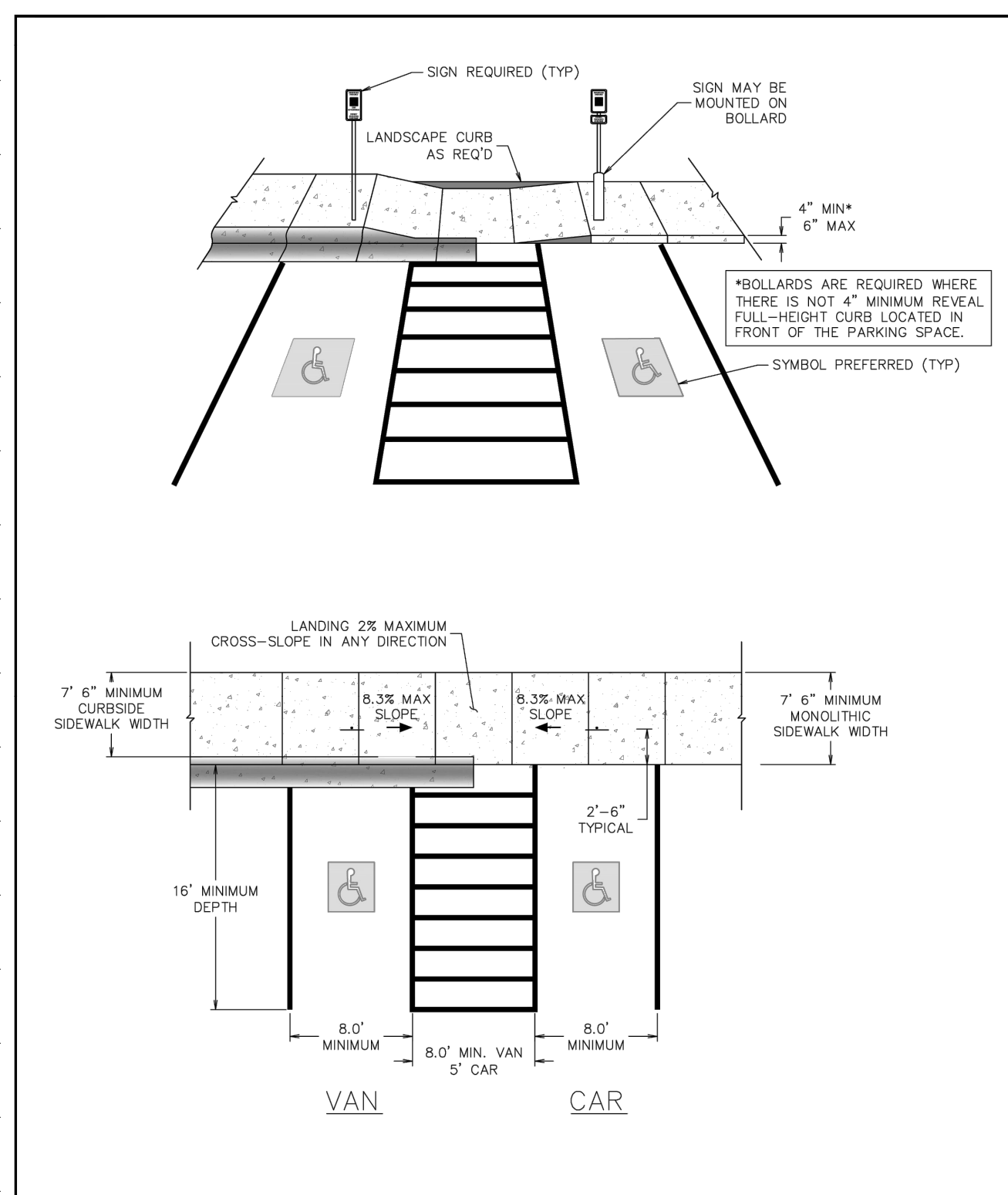


Standard 8' Precast Dry Well			
	Approved By Utility Engineer Andy Schultz, PE	Adopted: 09/28/2020 Revised: 01/01/2024	<b>STD - 616</b>

3  
C5.2

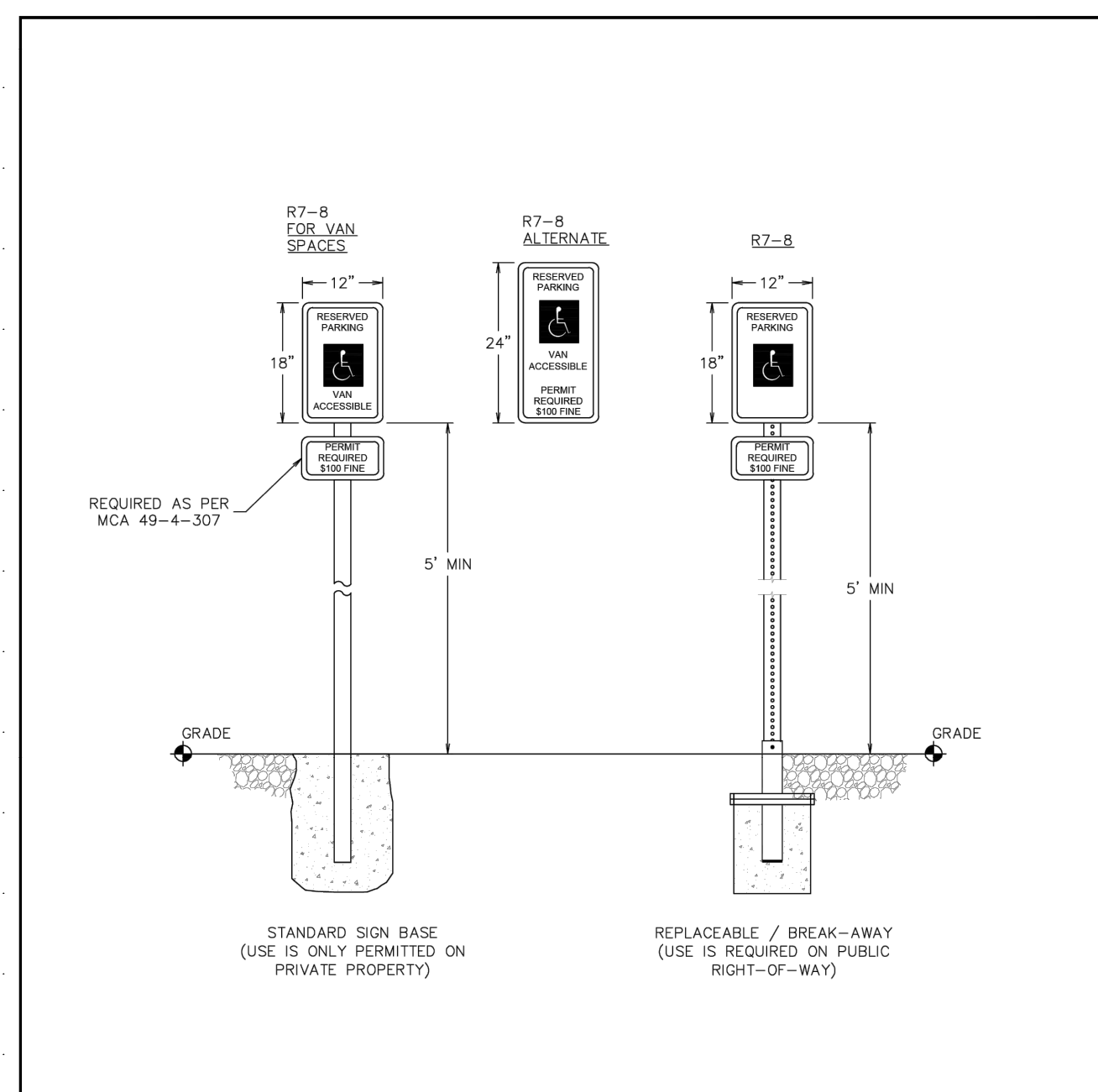


4  
C5.2  
SIDEWALK CHANNEL DRAIN  
NOT TO SCALE



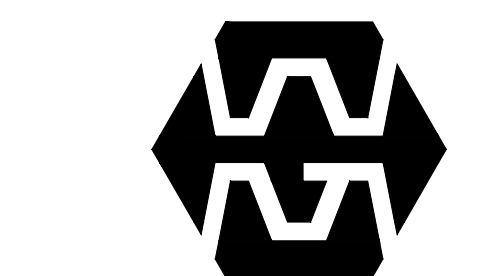
Accessible Front in Parking Spaces Access in Narrow Sidewalk (Sheet 2 of 2)			
	Approved By City Engineer Kevin J. Slovarg	Adopted: 02/27/1999 Revised: 01/01/2023	<b>STD - 782-2</b>

5  
C5.2



Accessible Parking Spaces Signage Requirements			
	Approved By City Engineer Kevin J. Slovarg	Adopted: 01/27/1999 Revised: 01/01/2023	<b>STD - 787</b>

6  
C5.2



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W:\Projects\191024\CAD\_Data\Design\19102401.dwg



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CIVIL DETAILS

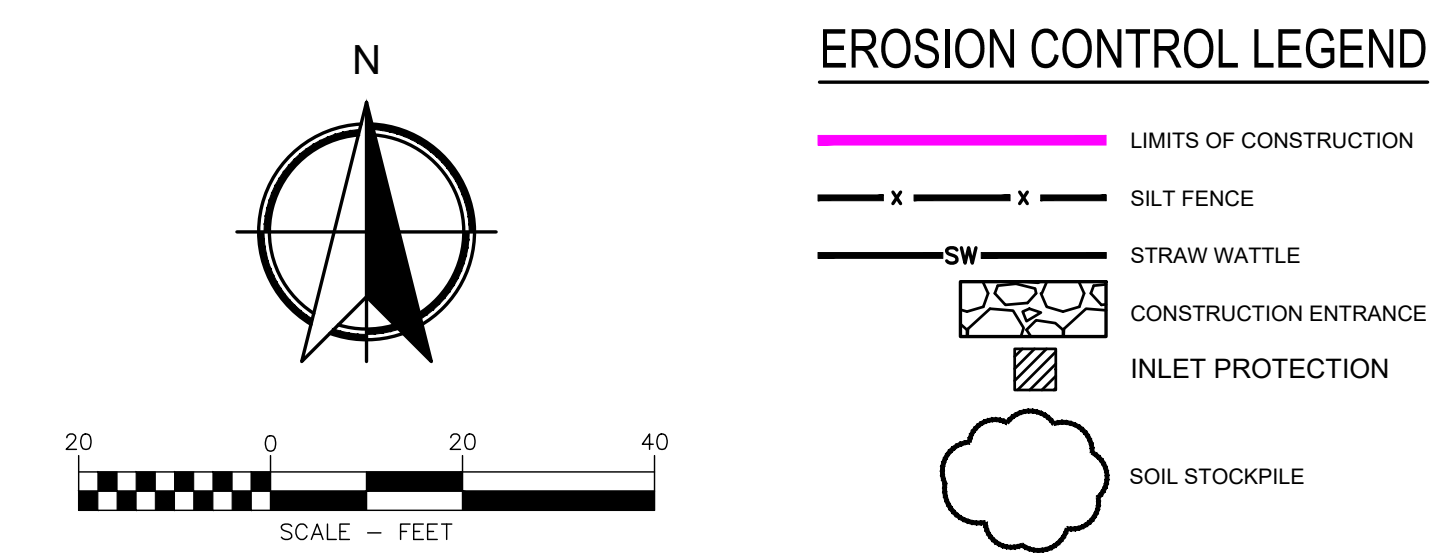
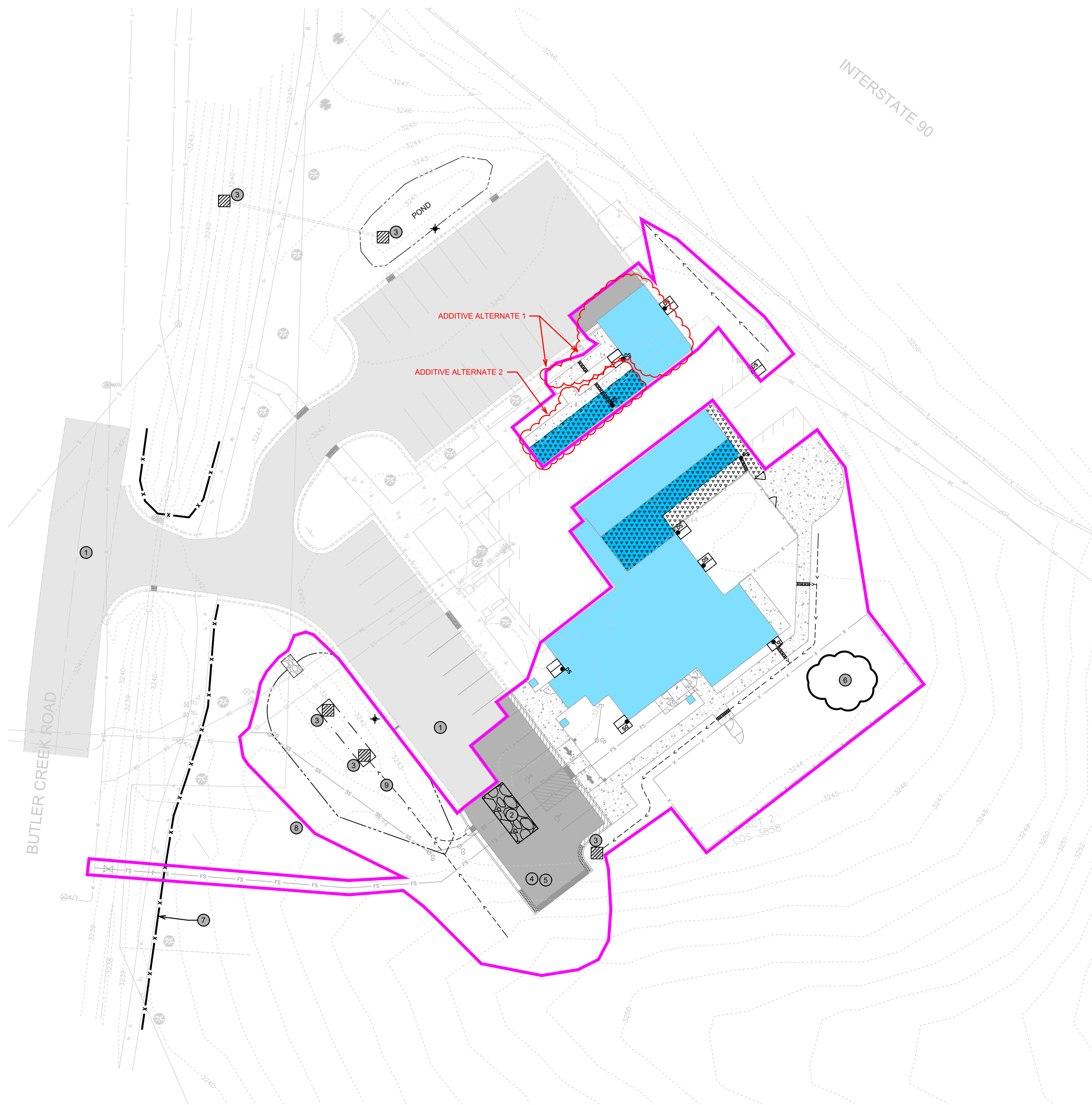
Date: 2024.03.29 Project No: 22.074

# C5.2



# 100% CONSTRUCTION DOCUMENTS

Revision Schedule		
Number	Description	Date



- GENERAL NOTES:**
- THE ANTICIPATED DISTURBED AREA FOR THIS PROJECT IS GREATER THAN 1 ACRE. THEREFORE THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL REQUIREMENTS OF THE 2021 "GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY" (GENERAL PERMIT) AUTHORIZED UNDER MONTANA POLLUTANT DISCHARGE ELIMINATION SYSTEM.
  - 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 MDEQ. THE CONTRACTOR SHALL REVIEW AND HAVE AN UNDERSTANDING OF THE PLAN'S INTENT FOR PROVIDING EROSION AND SEDIMENT CONTROL.
  - LAND DISTURBING ACTIVITY SHALL NOT COMMENCE UNTIL APPROVAL/PERMIT HAS BEEN GIVEN BY MDEQ AND CITY OF MISSOULA.
  - 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 MDEQ.
  - 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.
  - CONTRACTOR TO PREVENT UNTREATED RUNOFF FROM LEAVING THE SITE. ADDITIONAL BMPs MAY BE NECESSARY.
  - CONTRACTOR TO PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. PROVIDE WATER FOR DUST CONTROL AS NECESSARY.
  - THE CONTRACTOR IS TO BE RESPONSIBLE FOR INSTALLING, INSPECTING, MAINTAINING, PRESERVING AND EVALUATING THE PERFORMANCE OF ALL EROSION CONTROL MEASURES.
  - THE CONTRACTOR IS TO BE RESPONSIBLE FOR PERFORMING ALL MONITORING, REPORTING, AND RECORDS RETENTION REQUIREMENTS PER PART 2.3 OF THE GENERAL PERMIT. THIS INCLUDES, BUT MAY NOT BE LIMITED TO ATTACHMENT B- SELF INSPECTION FORM.
  - THE CONTRACTOR MUST HAVE ON-SITE AT ALL TIMES AND IMMEDIATELY AVAILABLE DURING CONSTRUCTION THE FOLLOWING: 1) COPY OF THE 2018 GENERAL PERMIT, 2) A COPY OF THE COMPLETED NOTICE OF INTENT (NOI) FORM, 3) A COPY OF THE NOI RECEIPT CONFIRMATION LETTER FROM THE DEPARTMENT OF ENVIRONMENTAL QUALITY, 4) A LIST OF POTENTIAL POLLUTANT SOURCES AND BMP SELECTION FOR EACH, 5) AN UP TO DATE COPY OF THE SWPPP INCLUDING MAP DOCUMENTING ANY FIELD CHANGES, 6) BMP INSTALLATION AND DESIGN STANDARDS FOR ALL BMPs INSTALLED AND DETAILED IN THE SWPPP, 7) SELF-INSPECTION RECORDS, 8) ALL REPORTS OF NON-COMPLIANCE.
  - CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND/OR FINES THAT MAY RESULT FROM RUNOFF FROM THIS SITE PRIOR TO FINAL STABILIZATION.
  - CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE WARRANTY PERIOD, AND UNTIL FINAL STABILIZATION OF THE SITE IS REACHED AS DEFINED IN THE CONSTRUCTION GENERAL PERMIT PART 3.8. THE CONTRACTOR IS THEN RESPONSIBLE FOR REMOVING EROSION CONTROL MEASURES AND SUBMITTING THE NOT TO MDEQ AND PROVIDING A COPY, ALONG WITH THE NOT RECEIPT LETTER FROM MDEQ, TO THE PROJECT ENGINEER AND CITY OF MISSOULA.
  - 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.
  - 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.
  - CONSTRUCTION TRASH/LITTER MUST BE THOROUGHLY CLEANED-UP AND PROPERLY DISPOSED OF ON A DAILY BASIS.
  - CONTRACTOR TO PREVENT CONSTRUCTION SEDIMENT AND DEBRIS FROM ENTERING EXISTING STORM DRAIN INLETS AND OTHER STORM WATER FACILITIES.
  - CONTRACTOR TO PROVIDE PROPER MATERIAL AND EQUIPMENT MANAGEMENT AND STORAGE, AND WASTE LOCATION ON-SITE OR PROVIDE OFF-SITE DISPOSAL.
  - CONTRACTOR MUST PROVIDE SWPPP REPORTING DOCUMENTS TO ENGINEER AT END OF PROJECT. ENGINEER IS REQUIRED TO SUBMIT ALL SWPPP DOCUMENTS TO CITY ENGINEERING AT AS-BUILT STAGE, INCLUDING NOTICE OF TERMINATION AND NOTICE OF TERMINATION CONFIRMATION LETTER IN ORDER TO CLOSE-OUT THE CITY PERMIT.
  - SWPPP DOCUMENT, NOI, AND NOI CONFIRMATION LETTER FROM DEQ MUST BE PROVIDED TO THE CITY TO OBTAIN CITY PERMIT PRIOR TO EARTH DISTURBING ACTIVITIES.

- KEY NOTES (THIS SHEET):**
- CONTRACTOR MUST LIMIT SEDIMENT TRACKING ONTO PUBLIC AND PRIVATE STREETS. CONTRACTOR RESPONSIBLE FOR REMOVING ANY SEDIMENT TRACKED ONTO HARD SURFACES DURING CONSTRUCTION. CONTRACTOR TO STREET SWEEP AS NECESSARY.
  - INSTALL FOD'S OR EQUAL 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.
  - 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.
  - 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.
  - PROVIDE MATERIAL STORAGE AND PORTABLE TOILET AREA. IF SHOWN LOCATIONS ARE NOT SUITABLE THIS PLAN MUST BE UPDATED WITH THE NEW LOCATIONS(S).
  - 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. UPDATED PLAN WITH STOCKPILE LOCATIONS AS THEY CHANGE.
  - AS NEEDED, INSTALL STRAW WATTLE OR SILT FENCE TO MINIMIZE EROSION INTO SWALES PRIOR TO FINAL SITE STABILIZATION.
  - LIMIT EARTH DISTURBING ACTIVITIES NEAR THE BOUNDARY OF THE SITE TO PRESERVE EXISTING VEGETATION AND PROVIDE VEGETATIVE BUFFER. IF SLOPES STEEPER THAN 3:1 ARE DISTURBED, SURFACE ROUGHEN AND TEMPORARILY SEED.
  - GRADE SITE TO DRAIN INTERNALLY. USE BACK OF EXISTING CURB OR SIDEWALK AS BARRIER TO PREVENT STORM WATER RUNOFF FROM LEAVING THE SITE.



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## EROSION CONTROL PLAN

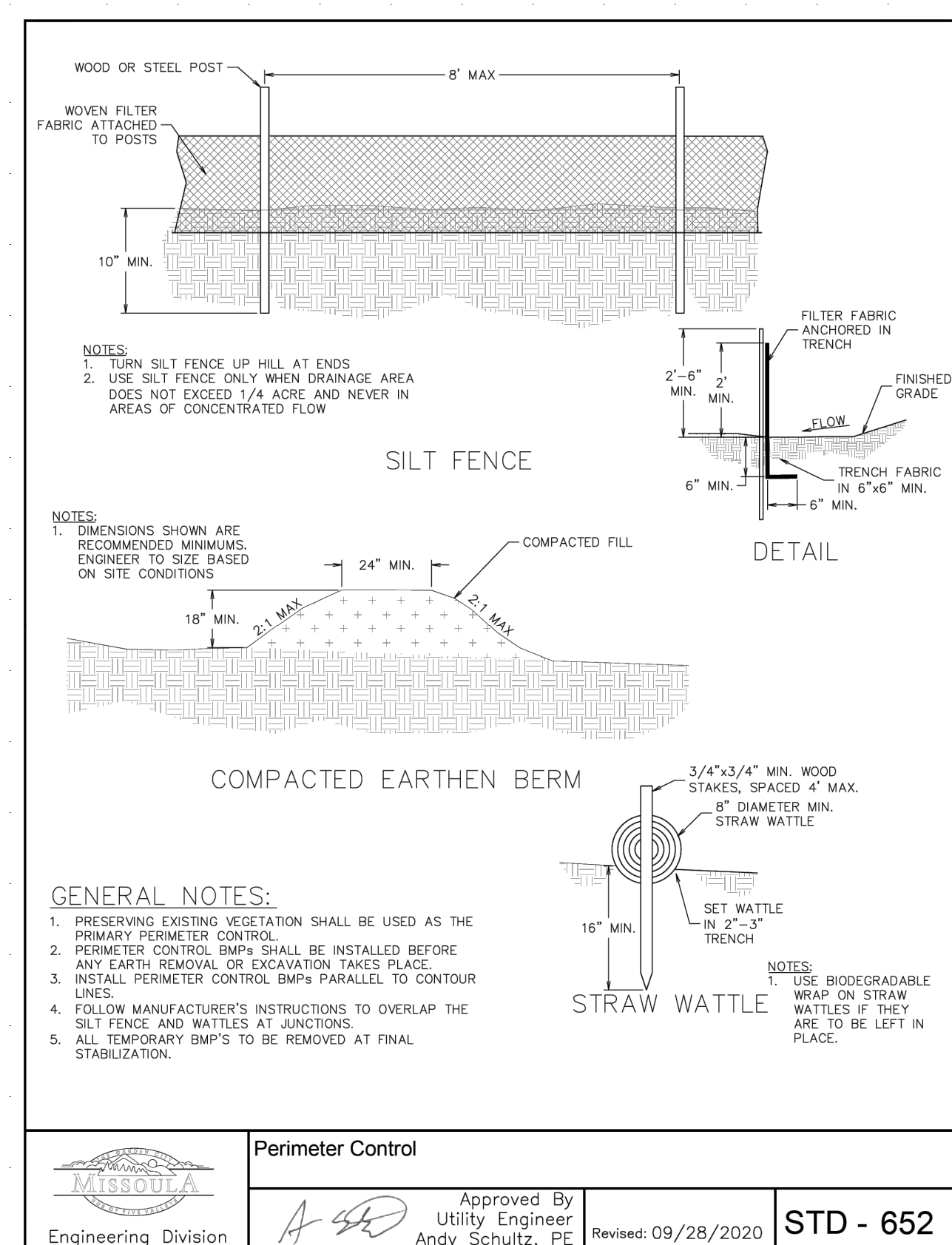
Date: 2024.03.29 Project No: 22.074

# C6.0



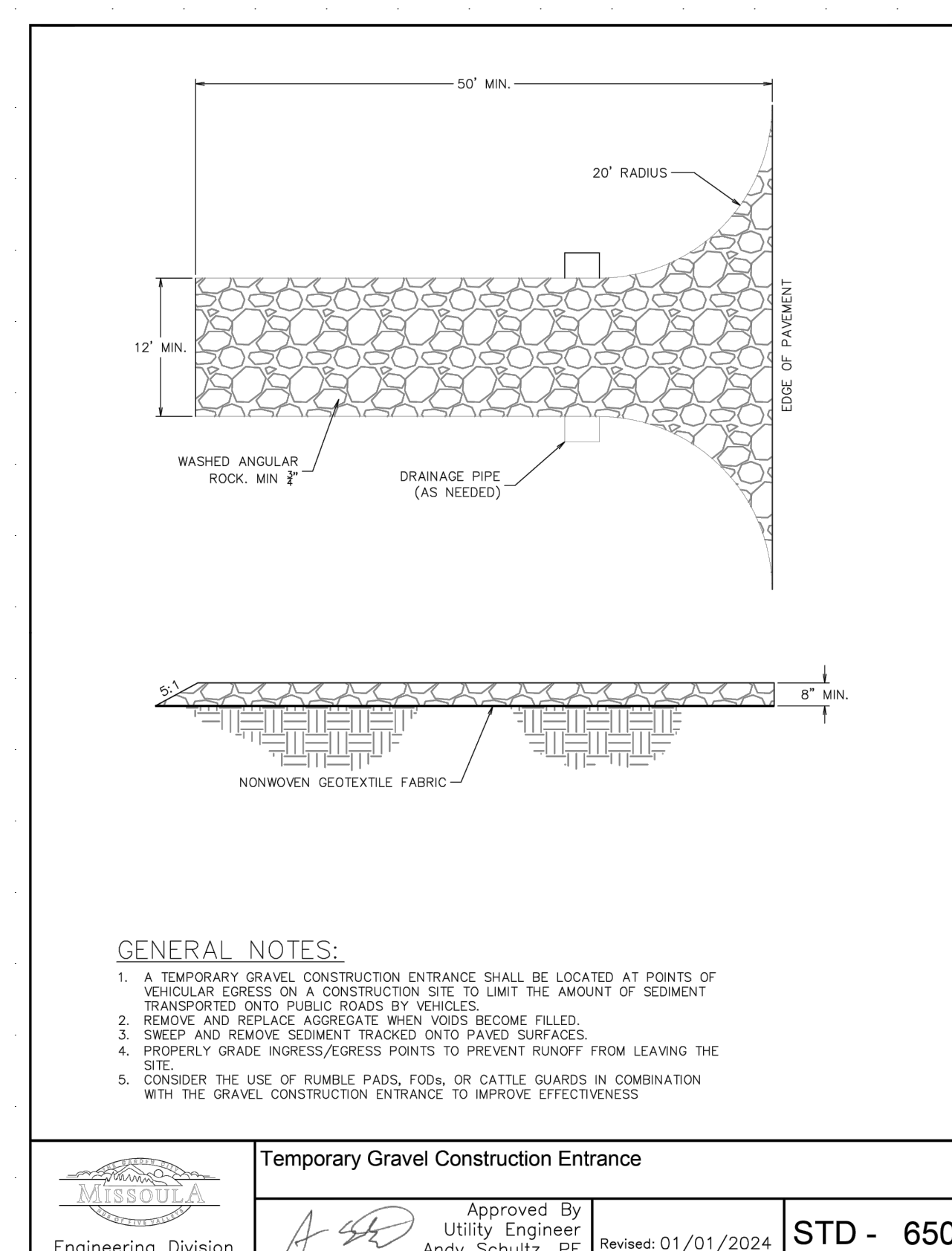
# 100% CONSTRUCTION DOCUMENTS

Revision Schedule		
Number	Description	Date



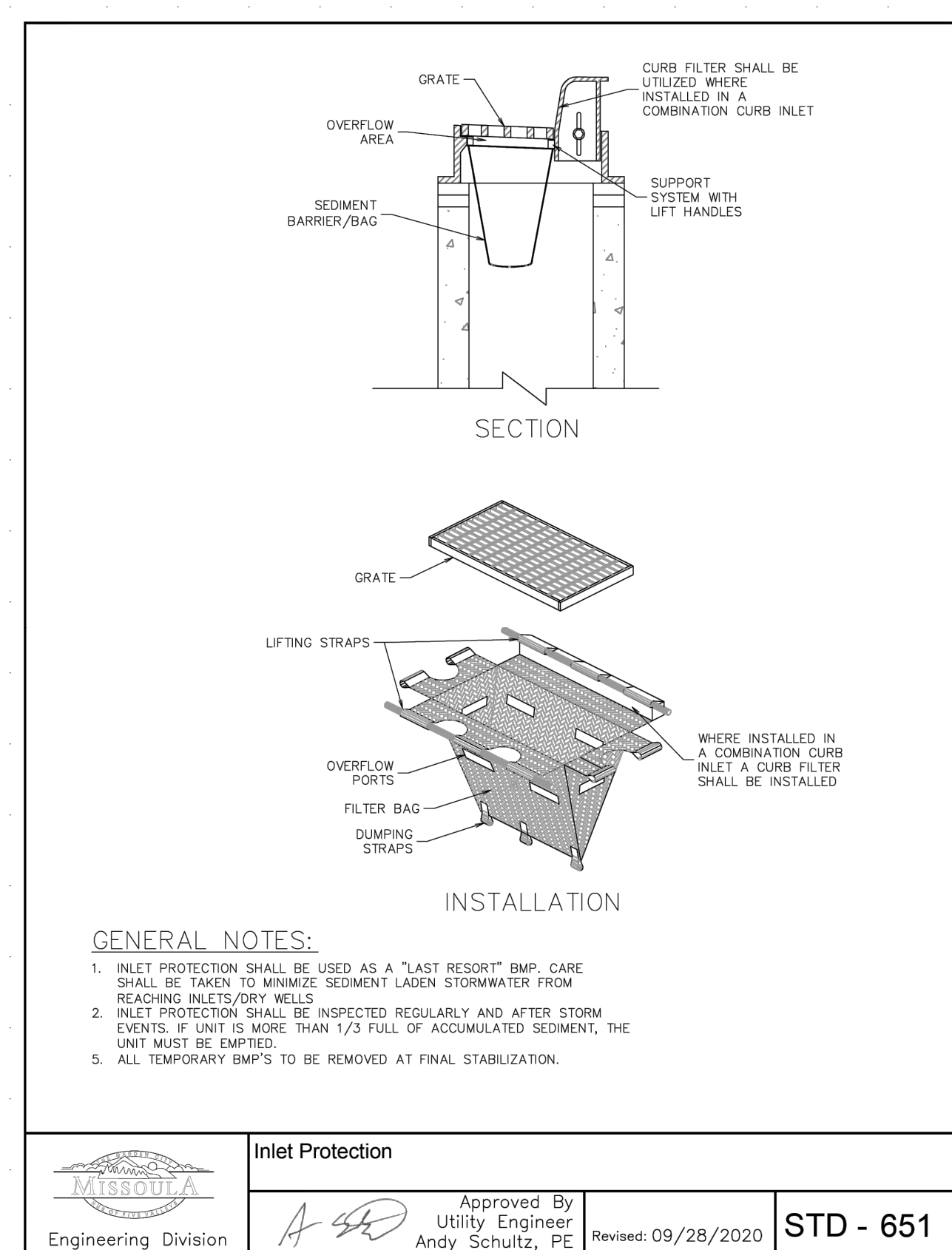
Engineering Division	Perimeter Control	Approved By Utility Engineer Andy Schultz, PE	Revised: 09/28/2020	STD - 652
	<i>A. Schultz</i>			

## 1 PERIMETER CONTROL



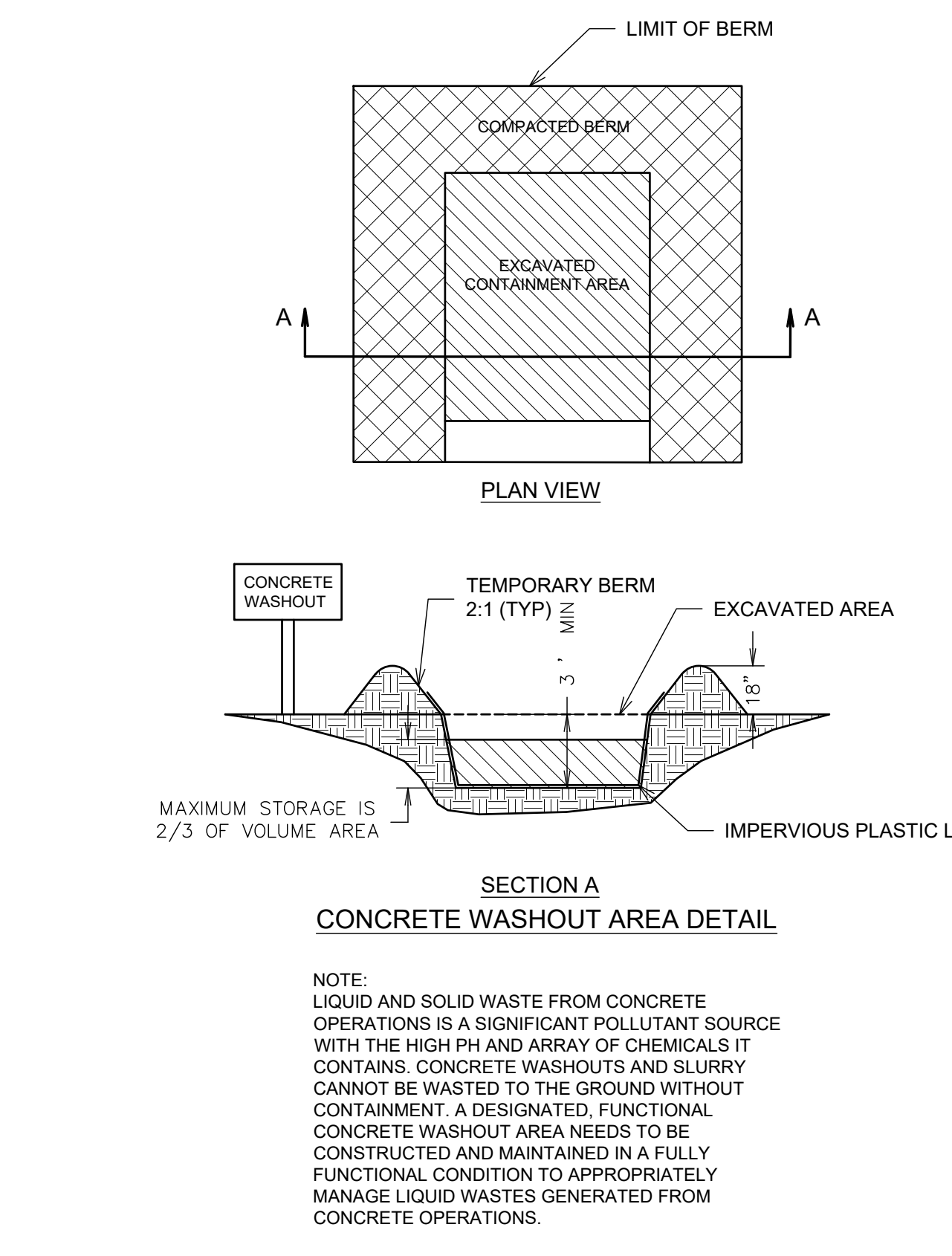
Engineering Division	Temporary Gravel Construction Entrance	Approved By Utility Engineer Andy Schultz, PE	Revised: 01/01/2024	STD - 650
	<i>A. Schultz</i>			

## 2 CONSTRUCTION ENTRANCE



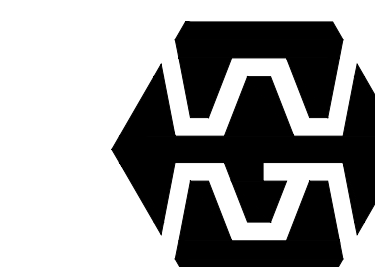
Engineering Division	Inlet Protection	Approved By Utility Engineer Andy Schultz, PE	Revised: 09/28/2020	STD - 651
	<i>A. Schultz</i>			

## 3 INLET PROTECTION



Engineering Division	Concrete Washout Area	Approved By Utility Engineer Andy Schultz, PE	Revised: 01/01/2024	STD - 650
	<i>A. Schultz</i>			

## 4 CONCRETE WASHOUT AREA



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W:\Projects\191024\CAD\_Data\Design\191024EC.dwg



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**MISSOULA CITY - COUNTY ANIMAL CONTROL SHELTER**  
 at  
**6700 BUTLER CREEK ROAD, MISSOULA, MT. 59808**

**EROSION CONTROL DETAILS**

Date: 2024.03.29 Project No: 22.074

**C6.1**