



BAYFIELD SHARED USE PATH IMPROVEMENT

TOWN OF BAYFIELD

BAYFIELD, COLORADO



FEBRUARY 2024

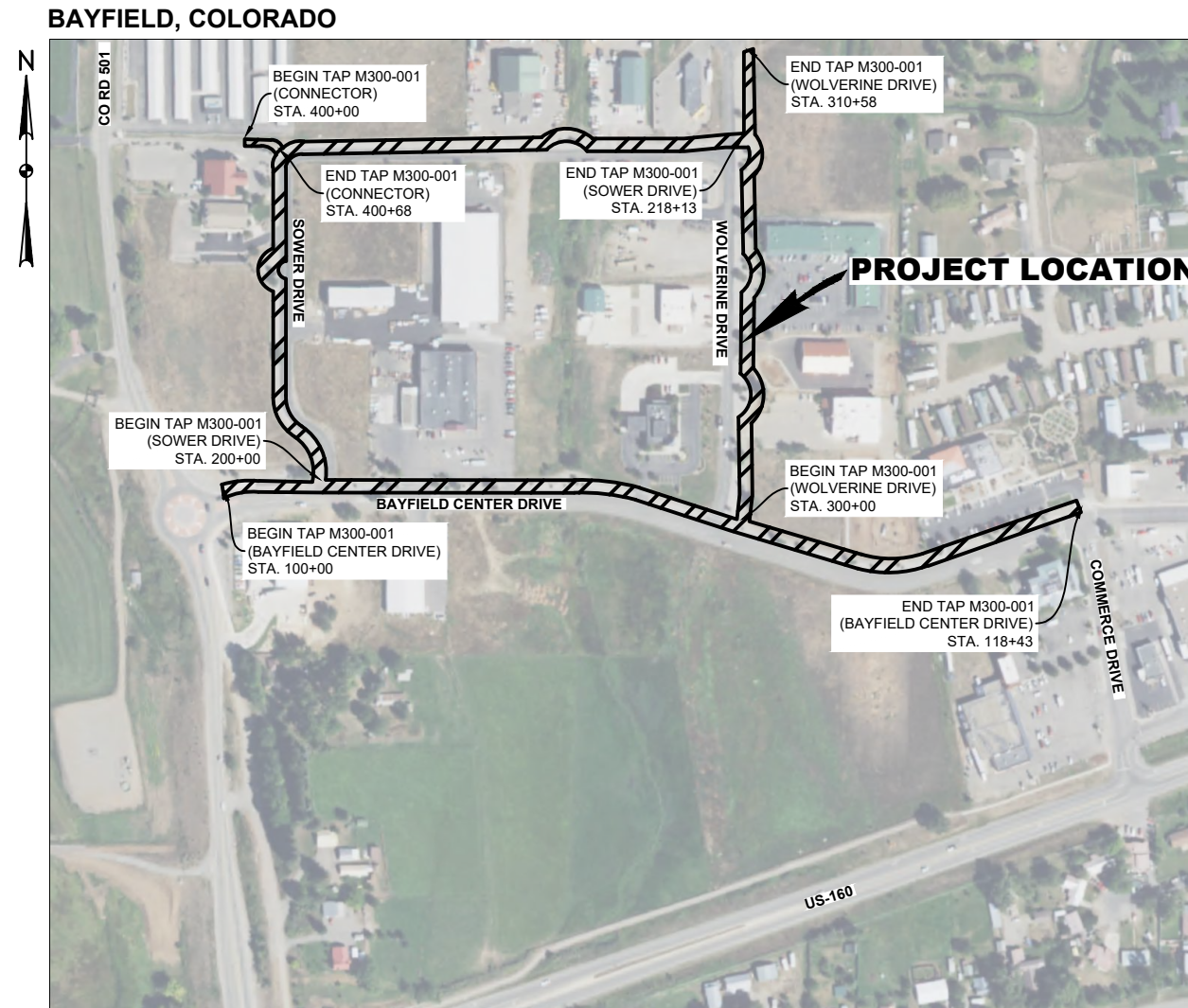
TAP M300-001, SUBACCOUNT 23709
MTF M065-008, SUBACCOUNT 24004

ISSUED FOR BIDDING ONLY - NOT FOR CONSTRUCTION

OWNER
TOWN OF BAYFIELD
1199 BAYFIELD PARKWAY
PO BOX 80
BAYFIELD, CO 81122
PH: 970.884.9544
townofbayfield.colorado.gov/

ENGINEER
KLJ ENGINEERING, LLC
1601 RIVERFRONT DRIVE
GRAND JUNCTION, CO 81501
PH: 970.450.7474
www.kljeng.com

TABULATION OF LENGTH AND DESIGN DATA	
STATION	ROADWAY LIN. FT.
STA. 100+00 - STA. 118+43	
BAYFIELD CENTER DRIVE	1843
STA. 200+00 - STA. 218+13	
SOWER DRIVE	1813
STA. 300+00 - STA. 310+58	
WOLVERINE DRIVE	1058
STA. 400+00 - STA. 400+68	
CONNECTOR	68
TOTAL	4782



VICINITY MAP
NOT TO SCALE

SHEET NO.	INDEX OF SHEETS
001	COVER SHEET
002	STANDARDS PLANS LIST
003-004	GENERAL NOTES
005	SUMMARY OF APPROXIMATE QUANTITIES
006	SURVEY TABULATIONS
007	LEGEND
008	TYPICAL SECTIONS
009	RAMP DETAILS
010	SURVEY CONTROL
011-016	REMOVAL PLANS
017-018	PATH OVERVIEW & ALIGNMENT DATA
019-024	PATH PLAN
025-030	EROSION CONTROL PLANS
031-038	STORMWATER MANAGEMENT PLAN
039	TRAFFIC CONTROL EXAMPLE

CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF COLORADO.

DEAN L. COOPER, PE _____ DATE: _____



Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed		BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
Date:	Comments	Init.				No Revisions:	Revised:		Void:	Drafted:
(R-X)								COVER SHEET		1

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
■ M-100-1	STANDARD SYMBOLS (3 SHEETS)	1-3
■ M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4-7
□ M-203-1	APPROACH ROADS	8
□ M-203-2	DITCH TYPES	9
□ M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12
□ M-203-12	SUPERELEVATION STREETS (2 SHEETS)	13-14
□ M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	15-16
□ M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	17-18
■ M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS)	19-29
□ M-210-1	MAILBOX SUPPORTS (2 SHEETS)	30-31
□ M-214-1	NURSERY STOCK DETAILS	32
□ M-216-1	SOIL RETENTION COVERING (2 SHEETS)	33-34
□ M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS)	35-39
□ M-412-2	CONCRETE PAVEMENT CRACK REPAIR (6 SHEETS)	(REVISED ON SEPTEMBER 6, 2022)
□ M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING	40
□ M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	41-42
□ M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	43-44
□ M-601-3	TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	45-46
□ M-601-10	HEADWALL FOR PIPES	47
□ M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE	48
□ M-601-12	HEADWALLS AND PIPE OUTLET PAVING	49
□ M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS)	50-51
□ M-603-1	METAL PIPE (4 SHEETS)	52-55
□ M-603-2	REINFORCED CONCRETE PIPE	56
□ M-603-3	PRECAST CONCRETE BOX CULVERT	57
□ M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND CORRUGATED POLYPROPYLENE PIPE (AASHTO M330) (2 sheets)	58
□ M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304)	59
□ M-603-6	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20)	60
□ M-603-10	CONCRETE AND METAL END SECTIONS	61
□ M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRATES (3 SHEETS)	62-64
□ M-604-10	INLET, TYPE C	65
□ M-604-11	INLET, TYPE D	66
□ M-604-12	CURB INLET TYPE R (2 SHEETS)	67-68
□ M-604-13	CONCRETE INLET TYPE 13	69
□ M-604-20	MANHOLES (3 SHEETS)	70-72
□ M-604-25	VANE GRATE INLET (5 SHEETS)	73-77
□ M-605-1	SUBSURFACE DRAINS	78

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
□ M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS)	79-97
□ M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	98-101
□ M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS)	102-104
□ M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS)	105-115
□ M-607-1	WIRE FENCES AND GATES (3 SHEETS)	116-118
□ M-607-2	CHAIN LINK FENCE (3 SHEETS)	119-121
□ M-607-3	BARRIER FENCE	122
□ M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS)	123-127
□ M-607-10	PICKET SNOW FENCE	128
□ M-607-15	ROAD CLOSURE GATE (9 SHEETS)	129-137
■ M-608-1	CURB RAMPS (10 SHEETS)	138-147
■ M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	148-151
□ M-611-1	CATTLE GUARD (2 SHEETS)	152-153
□ M-611-2	DEER GUARD (2 SHEETS)	154-155
□ M-614-1	RUMBLE STRIPS (3 SHEETS)	156-158
□ M-614-2	SAND BARREL ARRAYS (2 SHEETS)	159-160
□ M-615-1	EMBANKMENT PROTECTOR TYPE 3	161
□ M-615-2	EMBANKMENT PROTECTOR TYPE 5	162
□ M-616-1	INVERTED SIPHON	163
□ M-620-1	FIELD LABORATORY CLASS 1	164
□ M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS)	165-166
□ M-620-11	FIELD OFFICE CLASS 1	167
□ M-620-12	FIELD OFFICE CLASS 2	168
■ M-629-1	SURVEY MONUMENTS (2 SHEETS)	169-170



PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
□ S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS)	171-178
□ S-613-1	ROADWAY LIGHTING (6 SHEETS)	179-186
□ S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS)	(NEW, ISSUED ON SEPTEMBER 30, 2020)
□ S-613-4	TRAFFIC SIGNAL ONE-LINE DIAGRAMS (6 SHEETS)	(NEW, ISSUED ON JUNE 15, 2023)
■ S-614-1	GROUND SIGN PLACEMENT (2 SHEETS)	187-188
■ S-614-2	CLASS I SIGNS	189
□ S-614-3	CLASS II SIGNS	190
□ S-614-4	CLASS III SIGNS (3 SHEETS)	191-193
□ S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS)	194-195
□ S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)	196-197
□ S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS)	198-204
□ S-614-9	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS)	205-206
□ S-614-10	MARKER ASSEMBLY INSTALLATIONS	207
□ S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS	208
□ S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS)	209-210
□ S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS (4 SHEETS)	211-214
□ S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS	215
□ S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS (2 SHEETS)	216-217
□ S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS	218
□ S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS 65'-75' SINGLE MAST ARMS (5 SHEETS)	219-223
□ S-614-40A	ALTERNATIVE TRAFFIC SIGNAL 25'-55' SINGLE MAST ARMS (4 SHEETS)	224-227
□ S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS)	228-240
□ S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS)	241-244
□ S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (8 SHEETS)	245-252
□ S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS)	253-254
□ S-614-45	PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS)	255-266
□ S-614-50	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS)	267-280
□ S-614-60	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS)	281-289
□ S-627-1	PAVEMENT MARKINGS (11 SHEETS)	290-299
■ S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (26 SHEETS)	290-313
□ S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS	314
□ S-630-3	FLASHING BEACON (PORTABLE) DETAILS	315
□ S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS)	316-317
□ S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS)	318-319
□ S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY)	320
□ S-630-7	ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS)	321-323

COLORADO
DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 31, 2019

Revised on July 24, 2023

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX ■ AND WILL BE ATTACHED TO THE PLANS. ALL OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

R-X	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT		Project No./Code
	Date:	Comments	Init.				No Revisions:	STANDARD DETAILS LIST		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400
□							Revised:	Drafted: JMS	Reviewed: DC	Sheet Number 2
□							Void:			

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF BAYFIELD STANDARD CONSTRUCTION SPECIFICATIONS, LATEST REVISION; THE CDOT STANDARD SPECIFICATIONS, DATED 2023, AND AS SUBSEQUENTLY REVISED, AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
- ALL BOUNDARY LINEWORK, PROJECT CONTROL, AND TOPOGRAPHIC SURVEY DATA SHOWN HERON WAS SURVEYED BY KLJ ENGINEERING, LLC. UNDERGROUND UTILITY LOCATIONS SHOWN WERE PROVIDED BY HORROCKS ENGINEERS. THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON VISIBLE EVIDENCE FROM ABOVE GROUND STRUCTURES, MARKINGS BY THE RESPECTIVE UTILITY COMPANIES AND/OR THEIR LOCATOR SERVICES, DRAWINGS PROVIDED BY THE UTILITY COMPANIES, AND EXCAVATIONS AT LOCATIONS SHOWN ON SHEETS. ACTUAL LOCATIONS MAY VARY FROM THOSE AS SHOWN HEREON AND ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION ON THIS PROJECT.
- ALL ITEMS NOTED AS "INCIDENTAL" WILL NOT BE MEASURED AND PAID SEPARATELY. ALL COSTS FOR ITEMS NOTED AS "INCIDENTAL" SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
- EXISTING FIELD CONDITIONS MAY VARY FROM THE CONTRACT BID DOCUMENTS. THE CONTRACTOR SHALL VERIFY ACTUAL FIELD CONDITIONS PRIOR TO BIDDING PROJECT.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LINES, LEVELS, MATERIALS, ETC. PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN WRITING.
- AS THE LIMITS OF WORK ARE VERY CLOSE TO PRIVATE AND OTHER PROPERTY BOUNDARIES, THE CONTRACTOR MUST BE PREPARED AND CAPABLE OF BUILDING THE PROJECT EXCLUSIVELY WITHIN THE DESIGNATED TRAIL EASEMENT AND LIMITS OF DISTURBANCE. THE USE OF SPECIALIZED CONSTRUCTION TECHNIQUES, INCLUDING THE USE OF HAND TOOLS, MAY BE REQUIRED TO CONSTRUCT PORTIONS OF THE PROJECT. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREA NOT APPROVED BY THE ENGINEER. ALL WORK MUST BE PERFORMED WITHIN THE RIGHT OF WAY OR TEMPORARY CONSTRUCTION EASEMENTS.
- ALL EXISTING ACCESSES SHALL REMAIN OPEN TO TRAFFIC THROUGHOUT CONSTRUCTION, WITH THE EXCEPTION OF MINOR CLOSURES OF LESS THAN 15 MINUTES. THE CONTRACTOR SHALL COORDINATE WITH ANY AFFECTED LANDOWNERS FOR ACCESS CLOSURES.
- THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE PROJECT. A DE-WATERING PERMIT SHALL BE OBTAINED IF DE-WATERING OCCURS.
- THE CONTRACTOR SHALL KEEP EXISTING DRAINAGE STRUCTURES FUNCTIONAL AND MAINTAIN DRAINAGE TO THOSE STRUCTURES. MAINTAINING DRAINAGE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION SHALL BE RESET AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE: ONE COPY OF THE PLANS AND REVIEWED SHOP DRAWINGS AND ONE COPY OF THE CONSTRUCTION SPECIFICATIONS FOR THE PROJECT AT THE JOB SITE AT ALL TIMES.
- NO GEOTECHNICAL INVESTIGATION WAS PERFORMED AS PART OF THIS PROJECT.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF BAYFIELD PUBLIC WORKS DEPARTMENT, OR THEIR ASSIGNED REPRESENTATIVE. THE TOWN AND THEIR ASSIGNED REPRESENTATIVES RESERVE THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DO NOT CONFORM TO THE PLANS AND SPECIFICATIONS LISTED HEREIN. REQUIRED QUALITY CERTIFICATIONS AND DOCUMENTATION SHALL BE SUBMITTED TO THE TOWN PRIOR TO PLACEMENT OR USE OF THE MATERIAL.

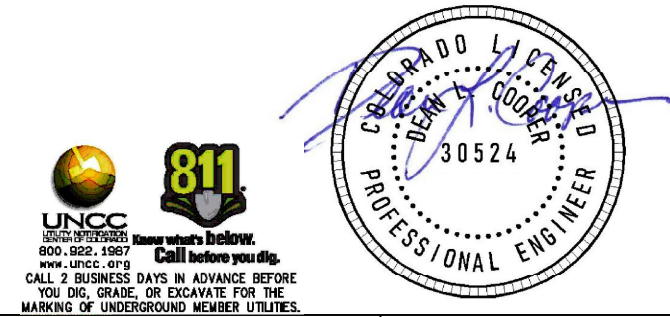
- CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE QUALITY CONTROL TESTING REQUIREMENTS OF THE TOWN OF BAYFIELD. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE TESTING FIRM 24 HOURS IN ADVANCE OF THE NEED FOR TESTING, AND TO VERIFY THAT THE APPROPRIATE NUMBER OF TESTS HAVE BEEN TAKEN. ALL FAILING TESTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND RE-TESTS SHALL BE PERFORMED UNTIL PASSING RESULTS ARE OBTAINED. PAYMENT OF QUALITY CONTROL TESTING IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE WORK. THE TOWN OF BAYFIELD WILL PROVIDE QUALITY ASSURANCE TESTING.
- ONLY MATERIALS ON WHICH A PROCTOR AND ACCURATE NUCLEAR DENSITY TEST CAN BE PERFORMED ARE APPROVED FOR UTILITY TRENCH BACKFILL, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- BACKFILLING OF TRENCHES WITHOUT TESTING DURING THE BACKFILL OPERATION IS STRONGLY DISCOURAGED AND WILL RESULT IN REMOVAL AND REPLACEMENT OF BACKFILL BACK TO THE LAST DOCUMENTED PASSING TEST.
- CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY FENCING FOR LIVESTOCK AND/OR PET CONTAINMENT ON AFFECTED PROPERTIES AT CONTRACTOR'S EXPENSE.

PERMIT NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED DEWATERING PERMITS IF NEEDED AND DEVELOPING THE METHODS OF COMPLIANCE WITH THOSE PERMITS FOR ALL CONSTRUCTION ACTIVITIES ON THE PROJECT. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL SURFACE AND SUBSURFACE DRAINAGE AND GROUNDWATER ENTERING THE PROJECT AREA AND SHALL BE RESPONSIBLE FOR OBTAINING A CONSTRUCTION DEWATERING PERMIT FROM THE CDPHE IF CONDITIONS OF THEIR LOW RISK GUIDANCE FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND ARE NOT MET. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE WORK PERFORMED.
- THE CONTRACTOR SHALL OBTAIN A CDPHE STORMWATER CONSTRUCTION PERMIT PRIOR TO COMMENCING WORK. BOTH THE TOWN OF BAYFIELD AND THE CONTRACTOR WILL BE LISTED ON THE PERMIT. RECEIPT OF THE PERMIT FROM CDPHE MAY TAKE 10 DAYS OR MORE. CONTROL OF SURFACE RUNOFF AND THE REPAIR OF DAMAGES RESULTING FROM RUNOFF IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE COST TO CONTROL SURFACE RUNOFF OR REPAIR DAMAGES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. SECTION 107 AND 208 OF CDOT'S STANDARD SPECIFICATIONS SHALL BE FOLLOWED.
- THIS PROJECT IS NOT AFFECTED BY ANY PREVIOUSLY MAPPED FLOODPLAIN AS SHOWN ON FEMA FIRM MAP 08067C0751F AND THE FLOODPLAIN LAYER ON LA PLATA COUNTY'S GIS WEBSITE.

UTILITIES

THE CONTRACTOR SHALL REFER TO THE PROJECT SPECIAL PROVISIONS FOR UTILITIES RELATED TO THIS PROJECT.



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT		Project No./Code		
	Date: Comments Init.								No Revisions:	GENERAL NOTES		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400
									Revised:			Sheet Number
									Void:	Drafted: JMS	Reviewed: DC	3

TRAFFIC CONTROL

- CONTRACTOR SHALL PROVIDE METHODS FOR HANDLING TRAFFIC (MHT) FOR REVIEW AND APPROVAL BY TOWN OF BAYFIELD AND CDOT AT LEAST 10 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- ALL MHT'S SHALL BE PREPARED IN ACCORDANCE WITH THESE PLANS, CDOT, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- MHT'S SHALL INCLUDE PLANS AND DETAILS FOR MAINTAINING BUSINESS ACCESS AT ALL TIMES.
- SIGNS SHALL NOT BE PLACED IN THE PEDESTRIAN PATHWAY.
 - ALL SIGN LOCATIONS SHALL NOT OBSTRUCT PEDESTRIAN TRAVEL ON SIDEWALKS UNLESS SAID SIGNS ARE USED TO CLOSE SIDEWALK.
 - ALL TYPES OF SIDEWALK CLOSED SIGNS SHALL BE MOUNTED IN AN ADA ACCESSIBLE FASHION PER MUTCD 6D.02.
 - PER STANDARD SPECIFICATION 630.10(6) MHTs SHALL INCLUDE A PLAN FOR MAINTAINING AND CONTROLLING PEDESTRIAN AND OTHER TRAFFIC.
 - ALL IMPROVEMENTS HAVE BEEN DESIGNED IN COMPLIANCE WITH PUBLIC RIGHTS OF WAY AND ACCESSIBILITY GUIDELINES (PROWAG). ALL WORK COMPLETED SHALL BE COMPLIANT WITH PROWAG. FAILURE TO PROVIDE PROWAG COMPLIANT WORK WILL RESULT IN REMOVAL AND REPLACEMENT, AT THE CONTRACTOR'S EXPENSE.

EARTHWORK NOTES

- PROTECTIVE PLASTIC FENCE AROUND WETLANDS, AND EROSION CONTROL MEASURES MUST BE IMPLEMENTED BEFORE CONSTRUCTION AND GRADING OPERATIONS BEGIN. CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE WASHED AND FREE OF SOIL AND DEBRIS CAPABLE OF TRANSPORTING NOXIOUS WEED SEEDS OR ROOTS FROM OTHER AREAS BEFORE BEING BROUGHT ON THE PROJECT SITE.
- CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL TRASH AND DEBRIS WITHIN THE PROJECT LIMITS. ALL SURFACE OBJECTS, TREES, TREE STUMPS, ROOTS, BUSHES, LANDSCAPING, AND OTHER PROTRUDING OBSTRUCTIONS WITHIN THE LIMITS OF CUTS AND FILLS SHALL BE CLEARED AND GRUBBED, INCLUDING MOWING AS REQUIRED. ALL OTHER TREES AND BUSHES SHALL BE PROTECTED.
- ALL OTHER REMOVALS, NOT USED IN PROJECT, SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE INDICATED ON THE PLANS AND PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL MATERIALS.
- ALL EXCESS MATERIAL GENERATED WITHIN THE PROJECT LIMITS SHALL BE REMOVED FROM THE PROJECT SITE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
- IN THE EVENT THAT PROJECT PERSONNEL ENCOUNTER UNKNOWN SOIL AND/OR GROUNDWATER CONTAMINATION, CONSTRUCTION ACTIVITIES SHOULD CEASE IMMEDIATELY AND THE PROCEDURES OUTLINED IN THE CDOT STANDARD SPECIFICATIONS SECTION 250 SHALL BE FOLLOWED.
- DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE EARTHWORK ITEM. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED.
- WATER FOR COMPACTION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
- SCARIFICATION, MOISTURE CONDITIONING, AND RECOMPACTING SUBGRADE REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
- ANY OPEN EXCAVATION LEFT UNATTENDED SHALL BE BARRICADED OR FENCED OFF BY THE CONTRACTOR.

- TEMPORARY EXCAVATION SUPPORT (SHORING) MAY BE NEEDED TO CONSTRUCT CERTAIN ELEMENTS OF THIS PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

MISCELLANEOUS NOTES

- ALL SURVEYING NECESSARY TO COMPLETE THE WORK SHALL BE DONE BY THE CONTRACTOR. THIS WORK WILL BE PAID FOR AS ITEM 625, CONSTRUCTION SURVEYING, LUMP SUM.
- PRIOR TO COMMENCING CONSTRUCTION STAKING WORK, CONTRACTOR'S SURVEYOR SHALL CONDUCT A PRE-SURVEY CONFERENCE WITH CDOT SURVEY COORDINATOR
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, AT THEIR EXPENSE, ANY PROPERTY PINS REMOVED OR DESTROYED DURING CONSTRUCTION IN ACCORDANCE WITH CDOT SECTION 629 OF THE SPECIFICATIONS.
- THE CONTRACTOR SHALL DETERMINE WHERE TO STOCKPILE MATERIAL OR STORE EQUIPMENT FOR THE PROJECT. TRAFFIC CONTROL MEASURES REQUIRED TO ACCOMMODATE MATERIAL AND EQUIPMENT STORAGE SHALL BE INCLUDED IN THE MHT. IF STORED ONSITE, STOCKPILE AND EQUIPMENT STORAGE MUST BE WITHIN THE LIMITS OF DISTURBED AREA (LDA) DEPICTED ON THE STORMWATER PERMIT AND SHOWN ON THE STORMWATER MANAGEMENT PLANS.

PAINT MARKING NOTES

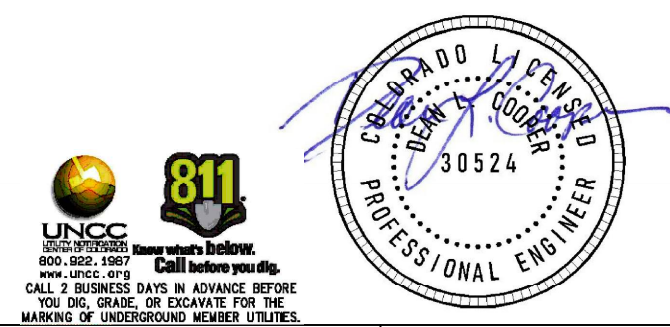
- NO PAINT MARKINGS ASSOCIATED WITH THE PROJECT.

ENVIRONMENTAL NOTES

- TO THE EXTENT PRACTICAL, ALL VEGETATION REMOVAL AND WORK ON STRUCTURES NECESSARY TO COMPLETE THE PROJECT SHALL BE CONSTRUCTED OUTSIDE OF THE NESTING SEASON FOR MIGRATORY BIRDS (APRIL 1 TO AUGUST 31).
- MIGRATORY BIRD NEST SURVEYS AND PROTECTION SHALL OCCUR AS OUTLINED IN THE PROJECT SPECIAL PROVISION (PSP) 240 IF CONSTRUCTION WILL OCCUR BETWEEN APRIL 1 AND AUGUST 31.
- RAPTOR NEST SURVEYS AND PROTECTION SHALL OCCUR AS OUTLINED IN THE PSP 240 IF CONSTRUCTION WILL OCCUR BETWEEN FEBRUARY 15 AND JULY 15.
- IT IS ESTIMATED THAT THE PROJECT WILL REQUIRE 10 HOURS PAY ITEM 240-00000 WILDLIFE BIOLOGIST TO PERFORM REQUIRED BIOLOGICAL WORK.
- ALL WETLANDS SHALL BE FENCED AND AVOIDED AND NO IMPACTS ARE ALLOWED FOR THIS PROJECT.
- IN THE EVENT THAT PROJECT PERSONNEL ENCOUNTER UNKNOWN SOIL AND/OR GROUNDWATER CONTAMINATION, CONSTRUCTION ACTIVITIES SHOULD CEASE IMMEDIATELY AND THE PROCEDURES OUTLINED IN THE CDOT STANDARDS SPECIFICATIONS SECTION 250 SHALL BE FOLLOWED.
- PROTECTIVE PLASTIC FENCE AROUND WETLANDS, AND EROSION CONTROL MEASURES MUST BE IMPLEMENTED BEFORE CONSTRUCTION AND GRADING OPERATIONS BEGIN.
- CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE WASHED AND FREE OF SOIL AND DEBRIS CAPABLE OR TRANSPORTING NOXIOUS WEED SEEDS OR ROOTS FROM OTHER AREAS BEFORE BEING BROUGHT ON THE PROJECT SITE/

PUBLIC INFORMATION SERVICES NOTES

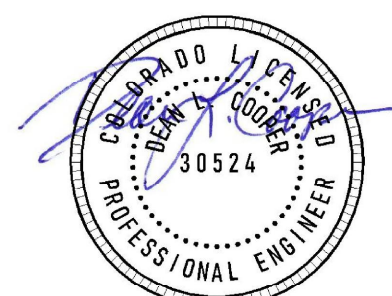
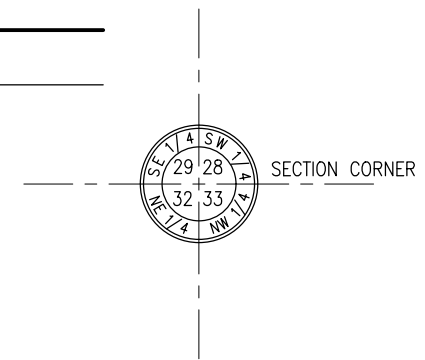
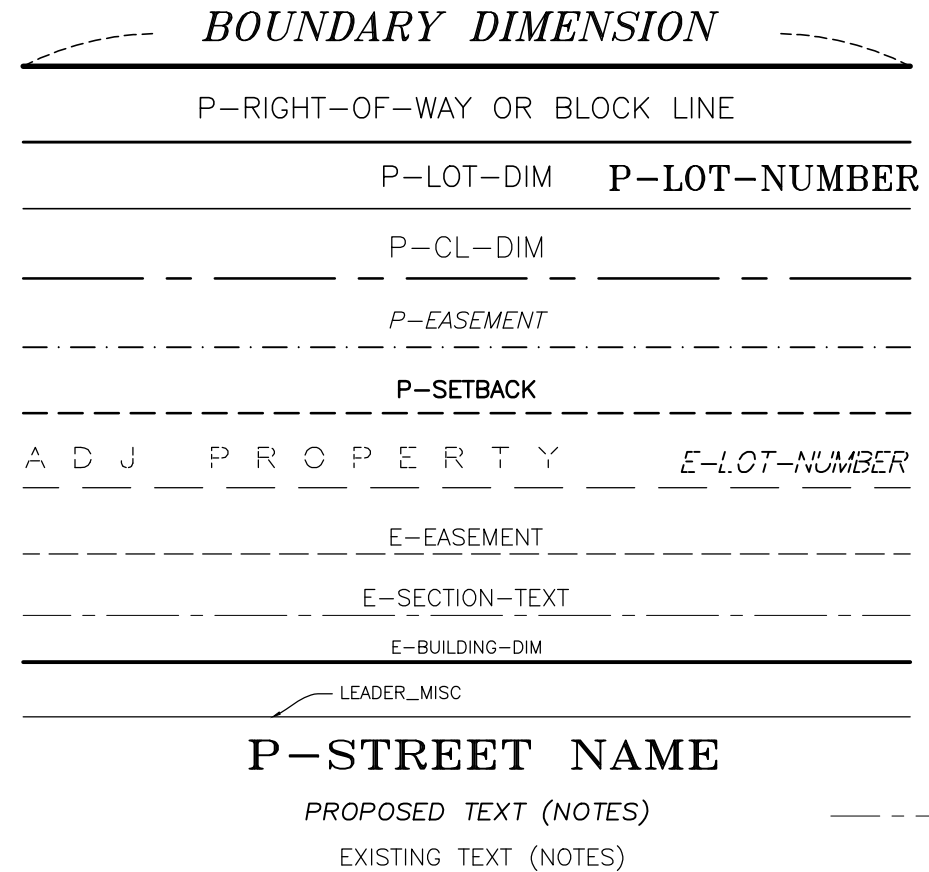
- TOWN OF BAYFIELD IS RESPONSIBLE FOR DISSEMINATING INFORMATION TO THE PUBLIC REGARDING PROJECT ACTIVITIES AS THEY MAY AFFECT ROAD CLOSURES, BUSINESS ACCESS, MOTORISTS, AND PEDESTRIANS.
- THE CONTRACTOR SHALL PROVIDE A PUBLIC INFORMATION MANAGER (PIM) WHO WILL BE THE RESPONSIBLE CHARGE AND POINT OF CONTACT TO COORDINATE AND COMMUNICATE WITH THE TOWN OF BAYFIELD FOR ALL ACTIVITIES ASSOCIATED WITH PUBLIC INFORMATION SERVICES. PIM MAY BE A QUALIFIED MEMBER OF THE CONTRACTOR'S PERSONNEL. AS PART OF THE KEY PROJECT STAFF SUBMITTAL PRIOR TO THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT THE NAME, CONTACT INFORMATION AND QUALIFICATIONS OF THE PIM FOR THIS PROJECT.
- PIM SHALL MEET AT LEAST ONCE WEEKLY WITH TOWN OF BAYFIELD FOR THE PROJECT DURATION TO PROVIDE A SCHEDULE AND UPDATE FOR THAT WEEK'S WORK AND OTHER LOOK AHEAD WORK THAT MAY IMPACT BUSINESS OWNERS AND THE TRAVELING PUBLIC IN AND THROUGH THE PROJECT.
- PIM SHALL BE AVAILABLE ON CALL OR ON SITE ON EVERY WORKING DAY AND AVAILABLE UPON REQUEST AT OTHER THAN NORMAL WORKING HOURS.
- PUBLIC INFORMATION SERVICES IS CONSIDERED INCIDENTAL TO THE WORK AND IS NOT A PAID WORK ITEM.



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code
	Date:	Comments	Init.				No Revisions:		TAP M300-001, SUB 23709
							Revised:	MTF M065-008, SUB 24004	
							Void:	KLJ PROJ # 2104-01400	
							GENERAL NOTES Drafted: JMS Reviewed: DC		Sheet Number 4

LEGEND		
EXISTING	ITEM	PROPOSED
---	ASPHALT EDGE	---
- - - - -	BUILDING CANOPY	- - - - -
~ ~ ~ ~ ~	CABLE TV - UNDERGROUND	~ ~ ~ ~ ~
- - - - -	CENTERLINE	- - - - -
---	CONSTRUCTION LIMITS	---
---	ELECTRICAL - OVERHEAD	---
---	ELECTRICAL - UNDERGROUND	---
- x - x - x -	FENCE - BARBED WIRE	- x - x - x -
- o - o - o -	FENCE - CHAINLINK	- o - o - o -
- H - H - H -	FENCE - PLASTIC, VINYL	- H - H - H -
- B - B - B -	FENCE - WOOD	- B - B - B -
- / - / - / -	FENCE - WOVEN WIRE	- / - / - / -
- F - F - F -	FIBER - UNDERGROUND	- F - F - F -
- G - G - G -	GAS - UNDERGROUND	- G - G - G -
.....	GRAVEL EDGE
---	LIMITS OF DISTURBED AREA	---
---	SANITARY SEWER FORCE MAIN	---
---	SANITARY SEWER SERVICE LINE	---
---	SANITARY SEWER (24" OR LESS)	---
---	SANITARY SEWER (24" OR MORE)	---
---	STORM SEWER EDGEDRAIN	---
---	STORM SEWER (24" OR LESS)	---
---	STORM SEWER (24" OR MORE)	---
---	TELEPHONE - OVERHEAD	---
---	TELEPHONE - UNDERGROUND	---
---	WATER SERVICE LINE	---
---	WATER MAIN	---

LEGEND		
EXISTING	ITEM	PROPOSED
☉	FIRE HYDRANT	☉
⊙	GATE VALVE	⊙
⊙	CURB STOP	⊙
⊙	YARD HYDRANT	⊙
⊙	BEND	⊙
⊙	TEE	⊙
⊙	CROSS	⊙
⊙	REDUCER	⊙
⊙	VERTICAL BEND	⊙
⊙	WATER MANHOLE	⊙
⊙	SPRINKLER HEAD	⊙
⊙	WATER METER	⊙
⊙	CATHODIC TEST STATION	⊙
⊙	TRACER WIRE ACCESS BOX	⊙
⊙	SANITARY MANHOLE	⊙
⊙	SANITARY FORCEMAIN MANHOLE	⊙
⊙	SANITARY MANHOLE W. VALVE	⊙
⊙	CLEANOUT	⊙
⊙	STORM SEWER MANHOLE	⊙
⊙	CURB INLET	⊙
⊙	CATCH BASIN	⊙
⊙	IRRIGATION RISER	⊙
⊙	IRRIGATION MANHOLE	⊙
⊙	POWER POLE	⊙
⊙	GUY WIRE	⊙
⊙	LIGHT POLE	⊙
⊙	ELECTRICAL PEDESTAL	⊙
⊙	ELECTRICAL METER	⊙
⊙	ELECTRICAL JUNCTION (PULL BOX)	⊙
⊙	ELECTRICAL BOX	⊙
⊙	ELECTRICAL OUTLET/PLUG-IN	⊙
⊙	ELECTRICAL MANHOLE	⊙
⊙	TELEPHONE MANHOLE	⊙
⊙	TELEPHONE PEDESTAL	⊙
⊙	CABLE TV PEDESTAL	⊙
⊙	FIBER OPTIC PEDESTAL	⊙
⊙	GAS METER	⊙
⊙	GAS MANHOLE	⊙
⊙	FUEL DISPENSER	⊙
⊙	UTILITY MARKER	⊙
⊙	GAS VENT PIPE	⊙
⊙	TREES CONIFEROUS/ DECIDUOUS	SEE PLANS FOR LEGEND
⊙	BUSH/SHRUB	⊙
⊙	SIGN	⊙
⊙	CONTROL POINT	⊙
⊙	BENCHMARK	⊙
⊙	PIPE CAP	⊙
⊙	MAIL BOX	⊙
⊙	PROPERTY PIN	⊙



	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT LEGEND	Project No./Code
	Date:	Comments	Init.				No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400
							Revised:		Sheet Number 5
							Void:		Drafted: JMS Reviewed: DC

SUMMARY OF APPROXIMATE QUANTITIES							
TAB	SHEET NO.	ITEM NO.	ITEM DESCRIPTION	PLAN QUANTITY	UNITS	NOTES	AS CONSTRUCTED
		202-00200	Removal of Sidewalk	4949	SY		
		203-00000	Unclassified Excavation	1850	CY		
		203-01597	Potholing	20	HOUR		
		208-00002	Erosion Log Type 1 (12 Inch)	3666	LF		
		208-00075	Pre-fabricated Vehicle Tracking Pad	1	EACH		
		208-00146	Pre-fabricated Concrete Washout Structure (Type 2)	1	EACH		
		208-00106	Sweeping (Sediment Removal)	80	HOUR		
		208-00207	Erosion Control Management	22	DAY		
		210-04050	Adjust Valve Box	1	EACH		
		212-01200	Landscape Restoration	1	LS		
		240-00000	Wildlife Biologist	10	HOUR		
		250-00010	Environmental Health and Safety Management	1	LS		
		304-06000	Aggregate Base Course (Class 6)	1542	TON		
		304-09014	Aggregate Base Course (Special)	659	TON		
		403-00721	Hot Mix Asphalt (Patching) (Asphalt)	198	SY		
		607-11525	Fence (Plastic)	150	LF		
		608-00015	Detectable Warnings	120	SF		
		608-00006	Concrete Sidewalk (6 Inch)	4972	SY		
		614-00026	Sign Panel (Class I) (Install Only)	1	EACH		
		614-00218	Steel Signpost (2.25x2.25 Inch Tubing)	6	LF		
		625-00000	Construction Surveying	1	LS		
		626-00000	Mobilization	1	LS		
		630-00000	Flagging	240	HOUR		
		630-00012	Traffic Control Management	107	DAY		
		630-80340	Pedestrian Barricade (ADA)	100	LF		
		630-80341	Construction Traffic Sign (Panel Size A)	4	EACH		
		630-80380	Traffic Cone	50	EACH		
		700-70010	F/A Minor Contract Revisions	1	F A		
		700-70023	F/A On-The-Job Trainee	1	F A		
		700-70380	F/A Erosion Control	1	F A		



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT SUMMARY OF APPROXIMATE QUANTITIES Drafted: JMS Reviewed: DC	Project No./Code
	Date:	Comments	Init.				No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400
							Revised:		KLJ PROJ # 2104-01400
							Void:		Sheet Number 6

TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

- Format *
 3D Design Modeling Electronic Files _____
 Horizontal Control .csv _____
 Vertical Control .csv _____
 Roadway Alignment .xml/.dwg _____
 Original Terrain Data .xml/.dwg _____
 Other: _____

* Specify the information format, i.e., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

- Landscaping
 Signalization
 Safety Improvement
 Asphalt Overlay
 Concrete Overlay
 Minor Widening
 Major Reconstruction
 New Roadway Construction
 Bridge Replacement
 Bridge Widening
 New Bridge
 Other: Shared used path remove & replace

SURVEY WORK TO BE PERFORMED BY OTHERS: _____

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

- A complete passing Base Line report (completed within 6 months prior to the start of the project)
 An instrument calibration Certification (completed within 6 months prior to the start of the project)
 Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
 Verification and Maintenance of Horizontal and Vertical Control
 Verify or Determine existing grades and alignments
 Verify or Determine existing topography
 Clearing and Grubbing Limits (Section 201)
 Removal Limits (Section 202)
 Reset Items (Section 210)
 Excavation and Embankment (Section 203)

- Excavation
 Unclassified
 Stripping
 Muck
 Rock
 Borrow
 Other: _____
 Potholing

- Embankment
 Site Grading
 Erosion Control (Perm)
 Other: _____
 As Staked Earthwork Quantities (See General Notes)

- Landscaping
 Top Soil (Section 207)
 Seeding (Section 212)
 Mulching (Section 213)
 Planting (Section 214)
 Herbicide (Section 217)
 Other: _____

- Erosion Control (Section 208)
 Seeding (Temp)
 Silt Fence
 Erosion Bales
 Erosion Logs
 Riprap (Temp)
 Other: _____

- Roadway Bases
 Untreated Subgrade
 Treated Subgrade
 Aggregate Base Course (Section 304)
 Reconditioning
 PMBB - Plant Mix Bituminous Base
 Other: _____

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Excavation	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Embankment	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
Roadway Bases	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

- Pavements
 HMA - Hot Mix Asphalt (Section 403)
 Concrete (Section 412)
 Heating & Scarifying Treatment
 Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
 Seal Coat or Chip Seal (Section 409)
 Other: _____

	Grid (Y/N)	Special Interval	Special Offset
Pavements	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- Roadway Elements
 Curb and Gutter (Section 609)
 Drop inlets -
 alignment and grades (Section 604)
 Retaining Walls
 Guard Rail (Section 606)
 Sidewalk (Section 608)
 Overlay Stationing
 Other: _____

	Tangent Interval	Curve Interval	Special Offset
Curb & Gutter	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- Riprap (Perm) (Section 506)
 Slope and Ditch Paving (Section 507)

	Left Interval	Center Interval	Right Interval
Stationing	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- Minor Structures
 Structure Excavation limits (Section 206)
 Culverts (Section 603)
 Culverts w/ Headwalls and Wingwalls (Section 601)
 Concrete Box Culverts w/ Headwalls and Wingwalls
 Pipes (Section 603)
 Sanitary Sewer
 Storm Sewer
 Water
 Irrigation
 Miscellaneous
 Manholes (Section 604)
 Inlets (Section 604)
 Permanent Water Quality BMP (Section 208)
 Other: _____

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
 Structure Excavation limits (Section 206)
 Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
 Piling locations and cut off elevations (Section 502)
 Caisson locations and elevations (Section 503)
 Footing locations, alignment, and elevations
 Abutment/Pier locations, alignment, and elevations
 Wingwall skew angles/offsets
 Structural concrete form locations
 Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)
 Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
 Deck grades at Girder 10th or "n" th point locations and elevations
 Slope and Ditch Paving (Section 507)
 Other: _____

- Fencing (Section 607)
 Temporary
 Permanent
 Sound Barrier
 Other: _____

- Delineators (Section 612)
 Temporary
 Permanent

- Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
 Signal pole locations and elevations
 Light pole locations and elevations
 Sign locations
 Field verify sign post locations, elevations, and lengths before fabrication.
 Other: _____

- Pavement Marking (Section 627)
 Striping (Temp)
 Striping (Perm)
 Symbols
 Other: _____

- Temporary Lighting and Construction Traffic Control Devices (Section 630)
 Signal pole locations and elevations (Temp)
 Light pole locations and elevations (Temp)
 Sign Locations (Temp)
 Other: _____

- All Easements (Temp Staking by P.L.S. Only)
 Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

- Monumentation (Section 629)
 Control
 Right of Way
 Land corners, Aliquot corners
 Easements
 Reference the specified existing monuments: ** _____
 Replace the specified existing monuments: ** _____
 Locate monuments. It is estimated _____ hours are required.

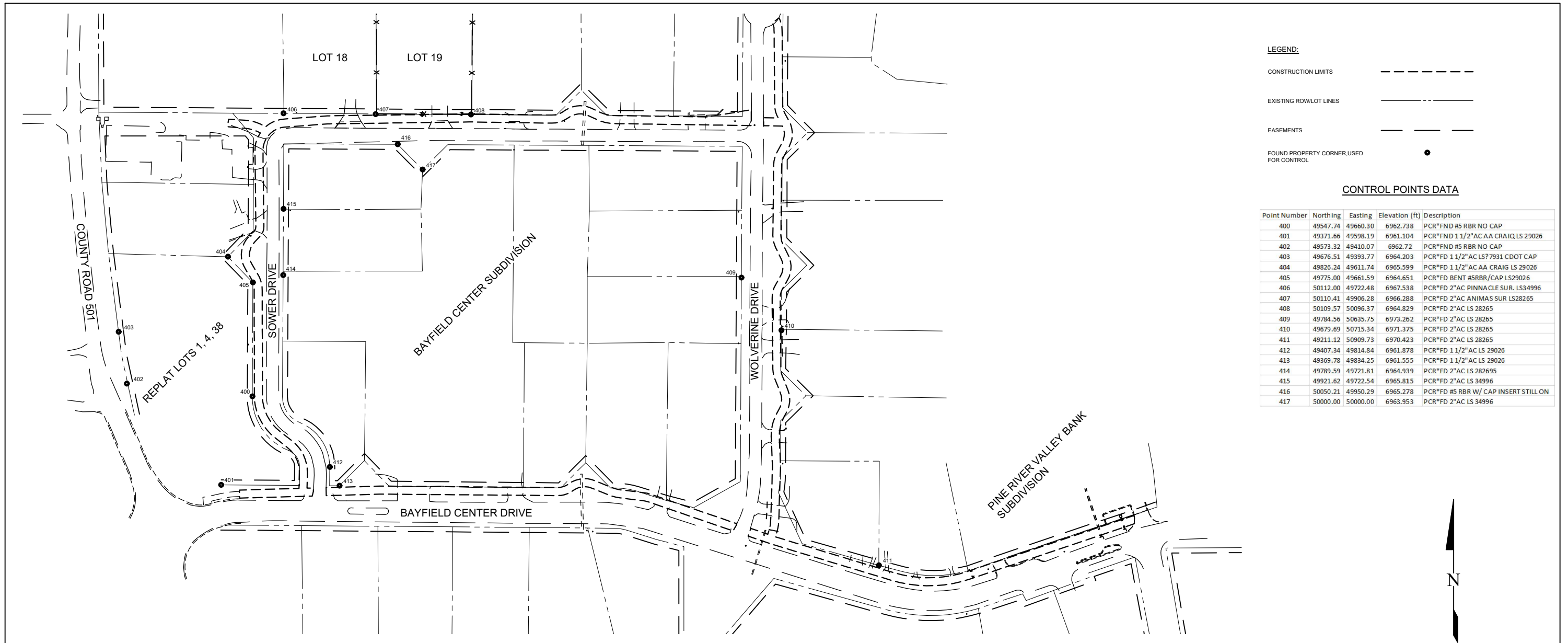
NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.
 ** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDOT Survey Manual.
- Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
- The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer _____ days prior to the Presurvey Conference - Construction Survey.
- Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
- The Contractor shall furnish an As Staked (or 3D Design Modeling Electronic Files) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDOT Survey Manual. A printed copy of the As Staked (or 3D Design Modeling Electronic Files) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
- Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
- The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking on the project with any utility work.
- Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
- The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
 - Horizontal Control (Primary & Secondary)
 - Vertical Control (i.e. Benchmarks)
 - Property Pin Ties
 - Horizontal Alignment
 - Grading
 - Slope Staking
 - Minor Structures
 - Major Structures
 - One fieldbook for each work category shown on this sheet
 - Other Fieldbook(s): _____
- The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
 - All required Instrument Calibrations



R-X	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed		BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code					
	Date:	Comments	Init.				No Revisions:	Revised:		SURVEY TAB SHEET	TAP M300-001, SUB 23709	MTF M065-008, SUB 24004	KLJ PROJ # 2104-01400		
										Drafted:	JMS	Reviewed:	DC	Sheet Number	7



LEGEND:

CONSTRUCTION LIMITS - - - - -

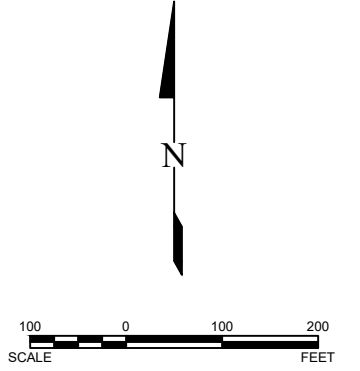
EXISTING ROW/LOT LINES - · - · - ·

EASEMENTS - - - - -

FOUND PROPERTY CORNER USED FOR CONTROL ●

CONTROL POINTS DATA

Point Number	Northing	Easting	Elevation (ft)	Description
400	49547.74	49660.30	6962.738	PCR*FND #5 RBR NO CAP
401	49371.66	49598.19	6961.104	PCR*FND 1 1/2" AC AA CRAIQ LS 29026
402	49573.32	49410.07	6962.72	PCR*FND #5 RBR NO CAP
403	49676.51	49393.77	6964.203	PCR*FD 1 1/2" AC LS 7931 CDOT CAP
404	49826.24	49611.74	6965.599	PCR*FD 1 1/2" AC AA CRAIG LS 29026
405	49775.00	49661.59	6964.651	PCR*FD BENT #5RBR/CAP LS29026
406	50112.00	49722.48	6967.538	PCR*FD 2" AC PINNACLE SUR. LS34996
407	50110.41	49906.28	6966.288	PCR*FD 2" AC ANIMAS SUR LS28265
408	50109.57	50096.37	6964.829	PCR*FD 2" AC LS 28265
409	49784.56	50635.75	6973.262	PCR*FD 2" AC LS 28265
410	49679.69	50715.34	6971.375	PCR*FD 2" AC LS 28265
411	49211.12	50909.73	6970.423	PCR*FD 2" AC LS 28265
412	49407.34	49814.84	6961.878	PCR*FD 1 1/2" AC LS 29026
413	49369.78	49834.25	6961.555	PCR*FD 1 1/2" AC LS 29026
414	49789.59	49721.81	6964.939	PCR*FD 2" AC LS 28265
415	49921.62	49722.54	6965.815	PCR*FD 2" AC LS 34996
416	50050.21	49950.29	6965.278	PCR*FD #5 RBR W/ CAP INSERT STILL ON
417	50000.00	50000.00	6963.953	PCR*FD 2" AC LS 34996



BASIS OF BEARING
 Bearings are based on the southerly property line of Lots 18 and 19 of Bayfield Center Subdivision (per La Plata County Clerk and Recorder at rec. #793333) as monumented by a found rebar and cap (point 406) being the southwest corner of Lot 18 and a found rebar and cap (point 408) being the southeast corner of Lot 19. Said property line being also the northerly right-of-way of Sower Drive, having a bearing of S 89°37'37" E. All other bearings are relative thereto.

BASIS OF ELEVATION
 Project elevation is NAVD 1988 derived from OPUS solution set 5/8" steel rebar, having coordinates of:
 Latitude N 37°18'04.617"
 Longitude W 107°36'20.055"
 Ellipsoidal height 7085.74
 Orthometric Elevation 7145.79

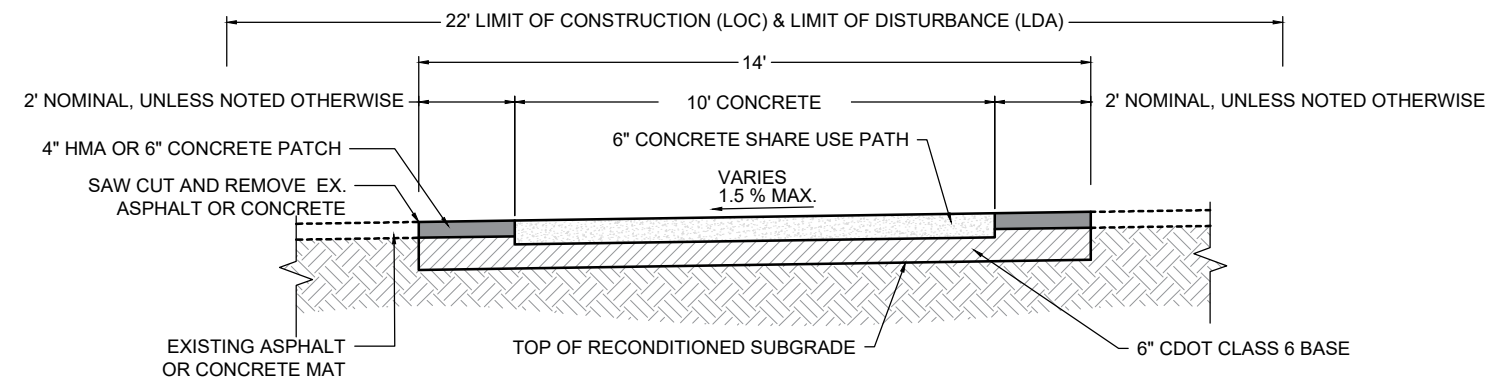
COORDINATE DATUM
 Project Coordinates are based on a Local Coordinate System as follows:
 Datum: WGS 1984
 Projection: Transverse Mercator
 Point of Origin: #417 Found Rebar and Aluminum Cap LS 34996
 GEOID: 18 CONUS
 Latitude: N 37°14'09.17922"
 Longitude: W 107°36'00.35947"
 Ellipsoid Height: 6109.90
 Orthometric Elevation: 6963.95
 Combined Scale Factor: 1.00033012872414
 False Northing: 50,000.00
 False Easting: 50,000.00
 False Northing Offset: 0.00
 False Easting Offset: 0.00
 Coordinate & Elevation Units: US Survey Feet

SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)
 I, Eric Hearon, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Land Survey Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

RESERVED FOR PLS STAMP AND SIGNATURE (ERIC HEARON)



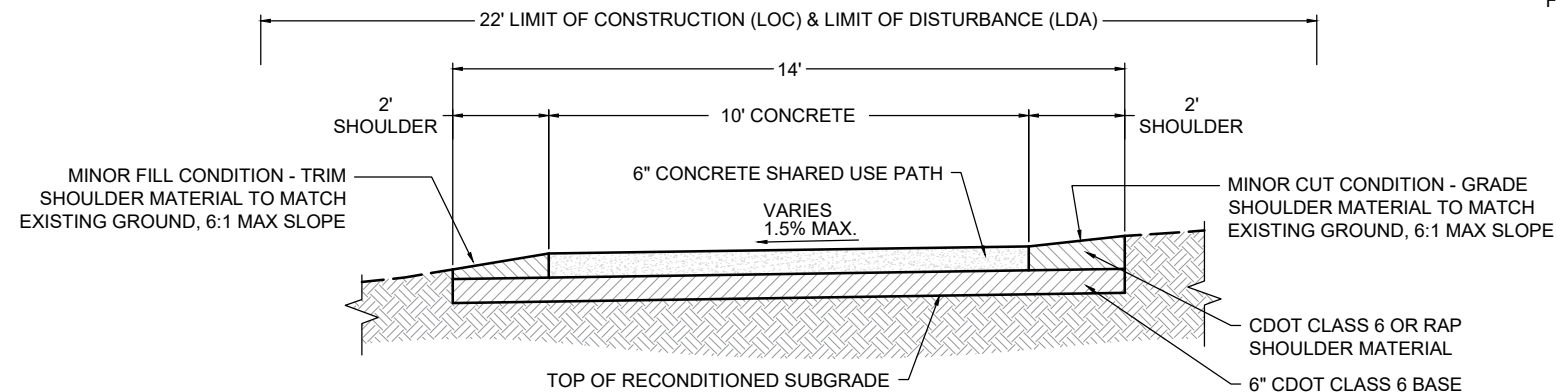
	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
	Date:	Comments	Init.				No Revisions:		SURVEY CONTROL	TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400
							Revised:	Drafted: JMS Reviewed: DC		
							Void:	Sheet Number 8		



TYPICAL SECTION - DRIVEWAY CUTS

NOT TO SCALE

NOTE: MINOR CUT AND FILL WITHIN LIMIT OF DISTURBANCE ARE GENERALLY LESS THAN 1 FOOT VERTICALLY.

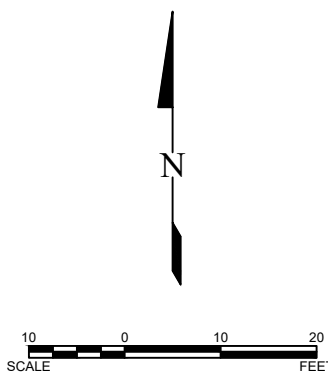
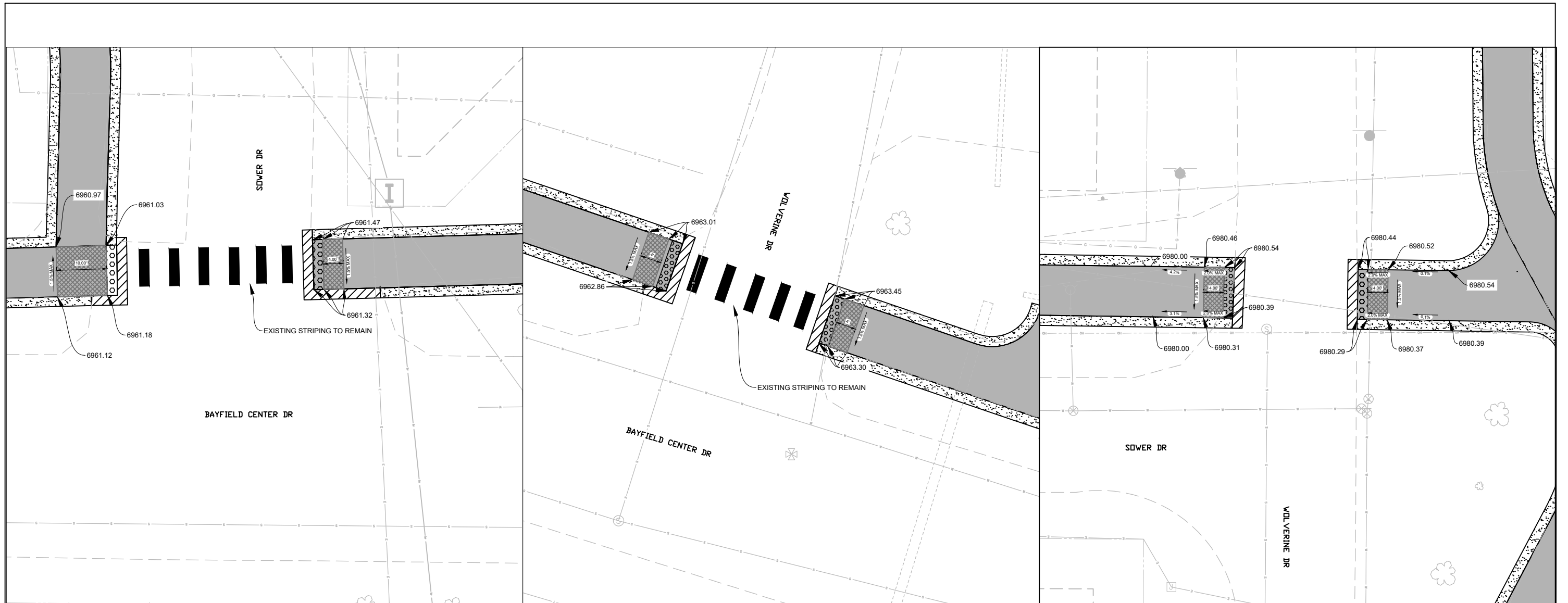


TYPICAL SECTION

NOT TO SCALE



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT		Project No./Code TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
	No Revisions:	TYPICAL SECTIONS									
	Revised:	Drafted:	JMS				Reviewed:	DC	Sheet Number	9	
	Void:										



LEGEND

- DETECTABLE WARNING
- SHOULDER
- LANDING AREA

UNCC
 800.822.1987
 www.uncc.org
 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.



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453

Region 5

Town of Bayfield
 1199 Bayfield Parkway
 PO Box 80
 Bayfield, CO 81122
 Phone: 970-884-9544

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

As Constructed
No Revisions:
Revised:
Void:

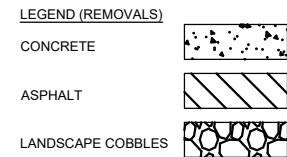
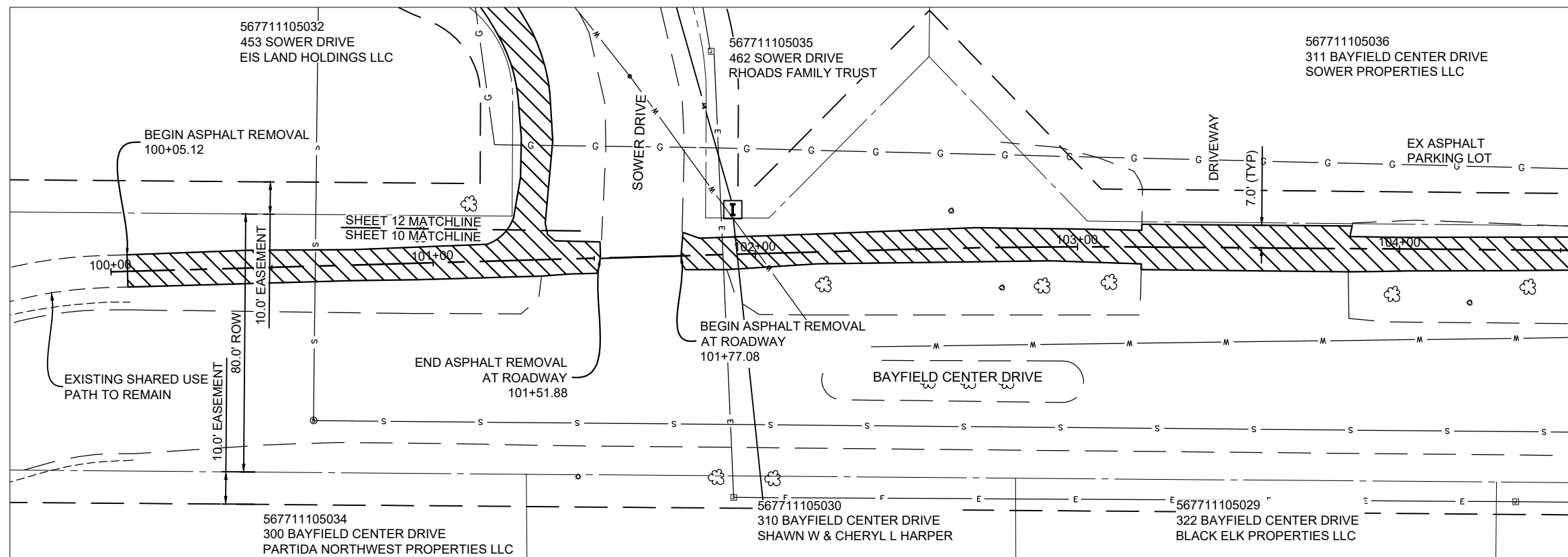
BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT

RAMP DETAILS

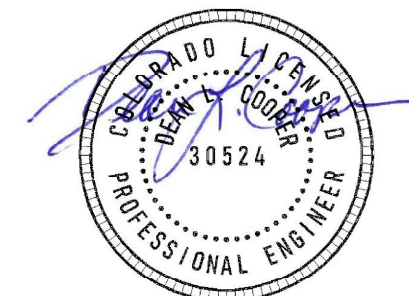
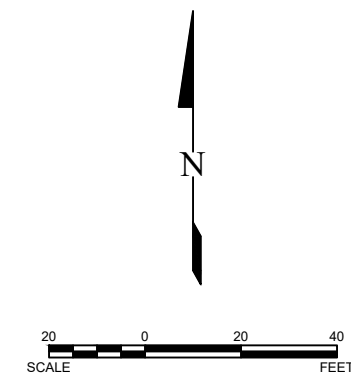
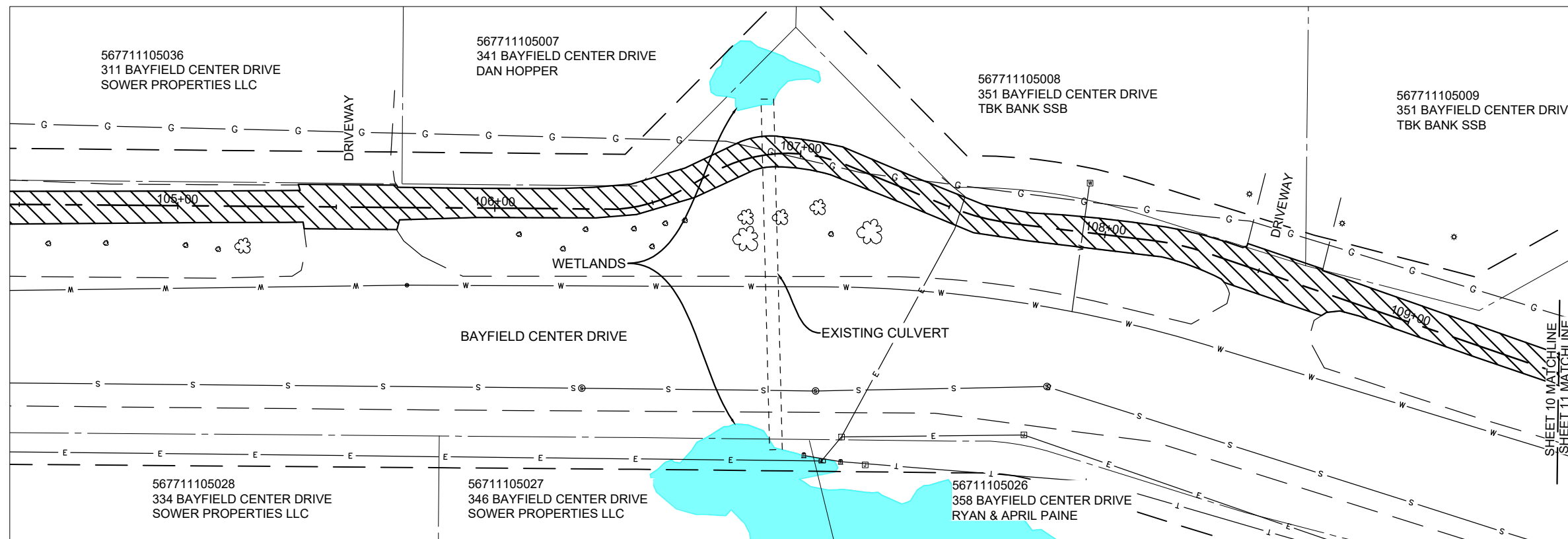
Drafted: JMS Reviewed: DC

Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400

Sheet Number **10**



NOTE: CONTRACTOR SHALL AVOID AND PROTECT ALL INDICATED WETLAND AREAS FROM INADVERTENT DREDGING AND DISCHARGES OR FILL, TRASH, OR OTHER UN-AUTHORIZED MATERIALS.



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453
 Region 5

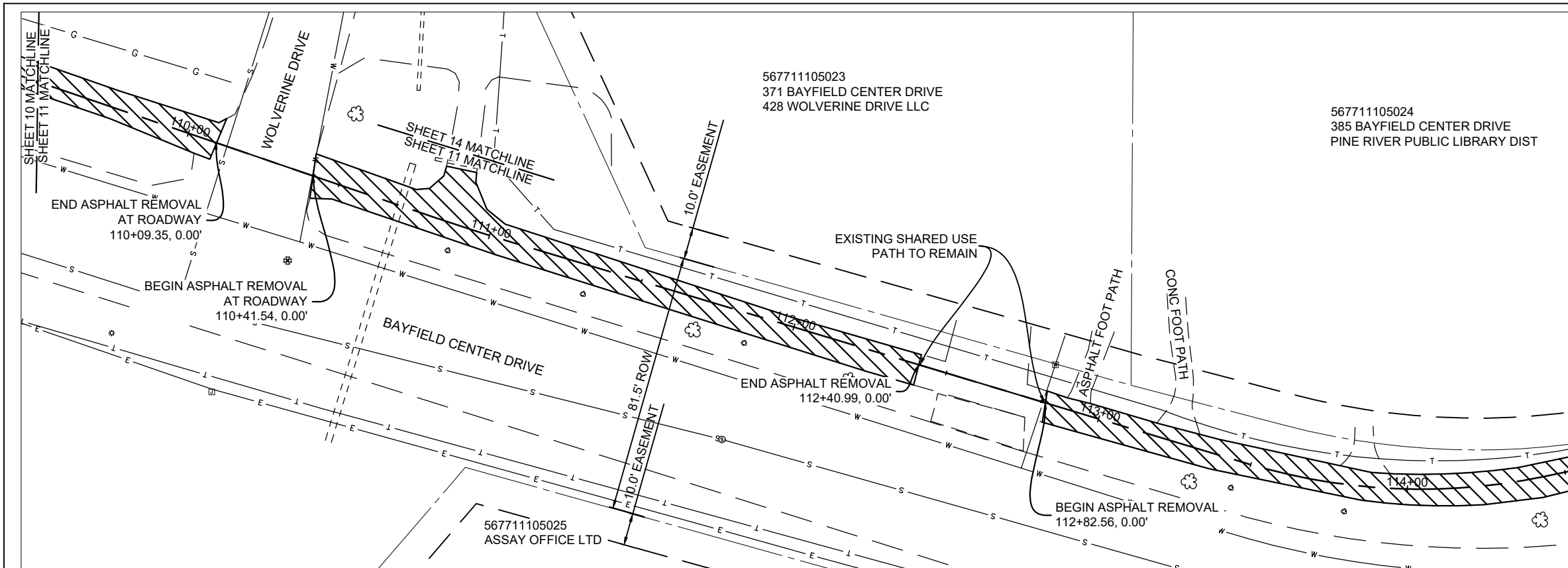
KLJ
 Town of Bayfield
 1199 Bayfield Parkway
 PO Box 80
 Bayfield, CO 81122
 Phone: 970-884-9544

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

As Constructed
No Revisions:
Revised:
Void:

BAYFIELD SHARED USE PATH
 IMPROVEMENT PROJECT
REMOVALS - BAYFIELD DR
 Drafted: JMS Reviewed: DC

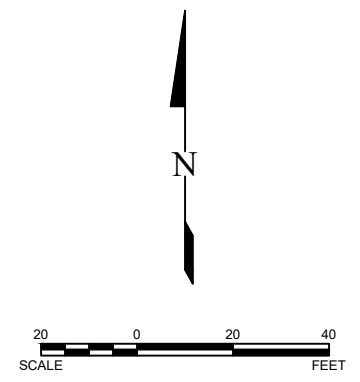
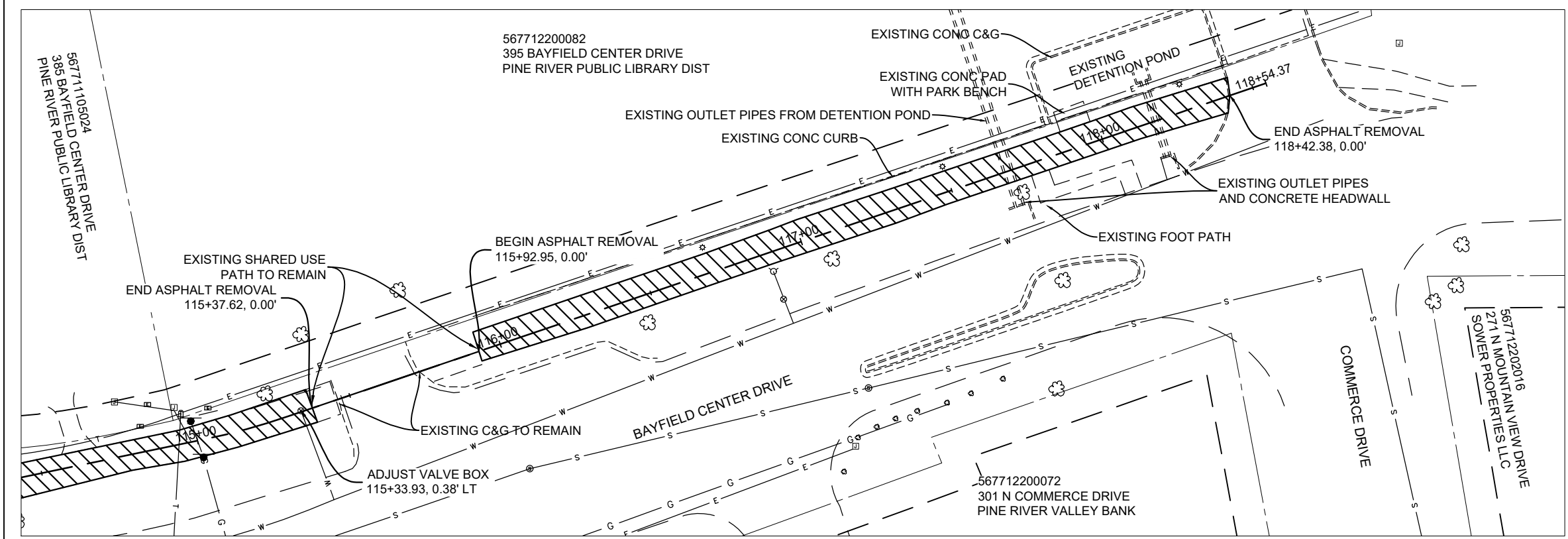
Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400
 Sheet Number **11**



LEGEND (REMOVALS)

CONCRETE	
ASPHALT	
LANDSCAPE COBBLES	

NOTE: CONTRACTOR SHALL AVOID AND PROTECT ALL INDICATED WETLAND AREAS FROM INADVERTENT DREDGING AND DISCHARGES OR FILL, TRASH, OR OTHER UN-AUTHORIZED MATERIALS.

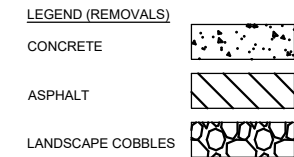
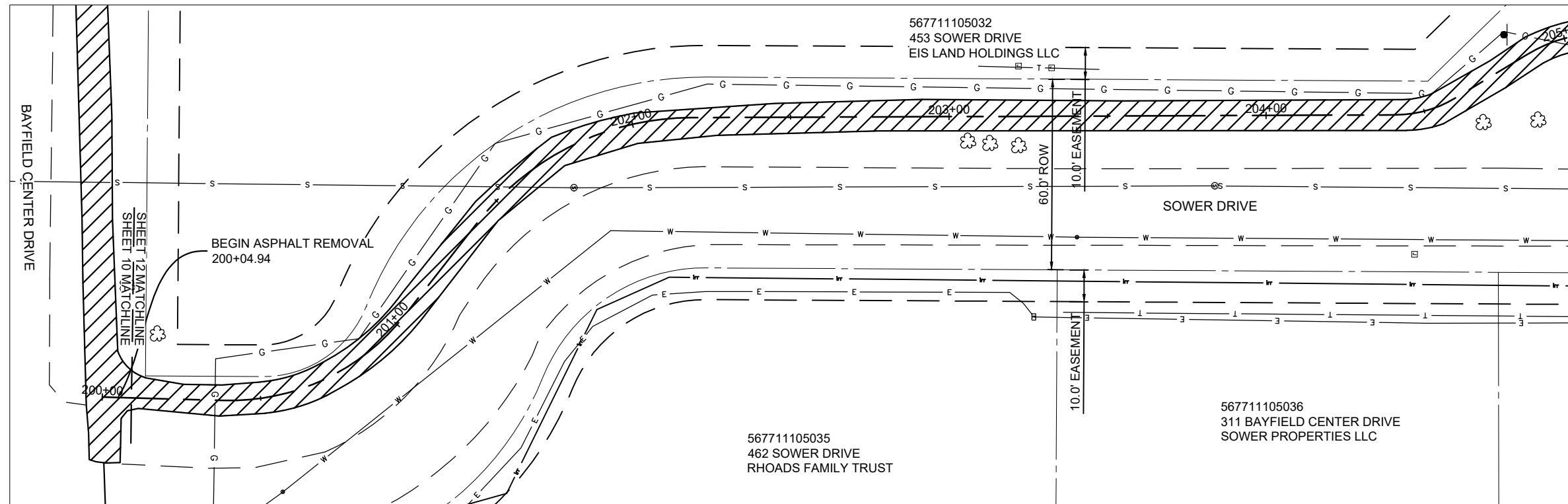


Sheet Revisions			
Date:	Comments	Init.	

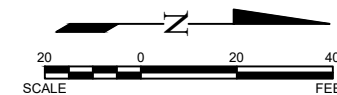
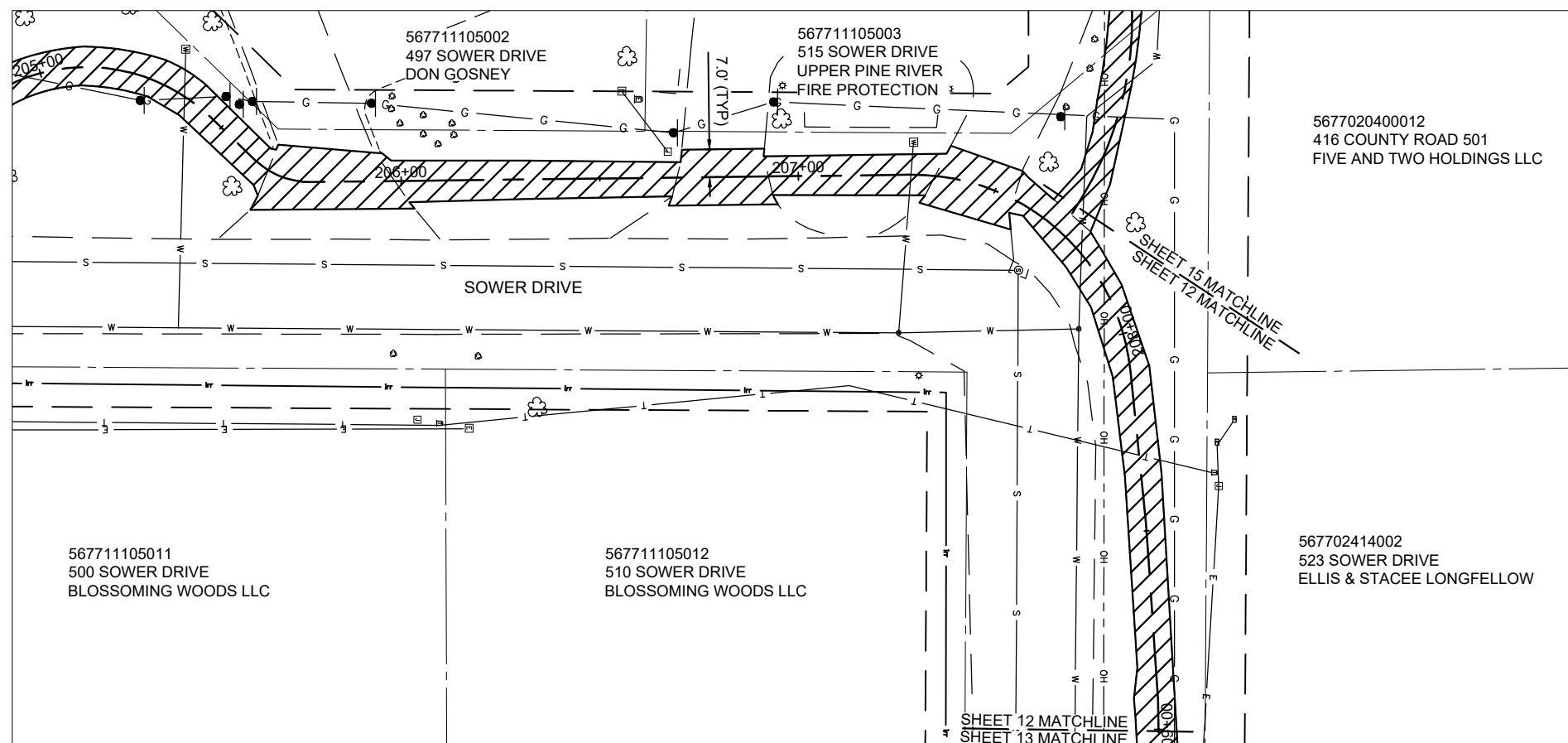
Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

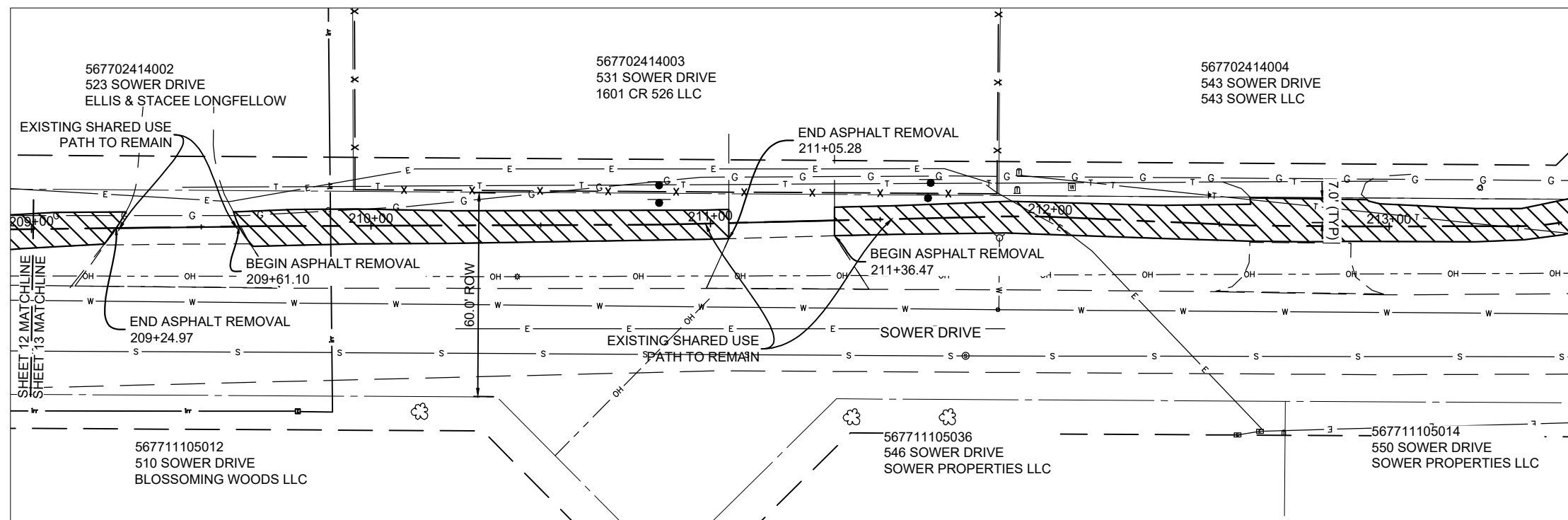
As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
No Revisions:		TAP M300-001, SUB 23709	
Revised:		MTF M065-008, SUB 24004	
Void:		KLJ PROJ # 2104-01400	
REMOVED - BAYFIELD DR		Drafted: JMS	Reviewed: DC
		Sheet Number 12	



NOTE: CONTRACTOR SHALL AVOID AND PROTECT ALL INDICATED WETLAND AREAS FROM INADVERTENT DREDGING AND DISCHARGES OR FILL, TRASH, OR OTHER UN-AUTHORIZED MATERIALS.



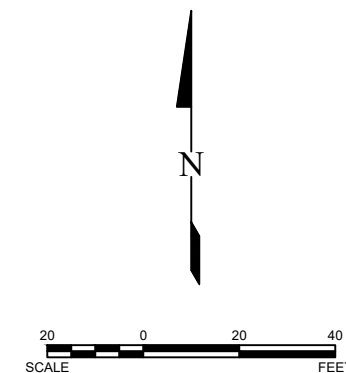
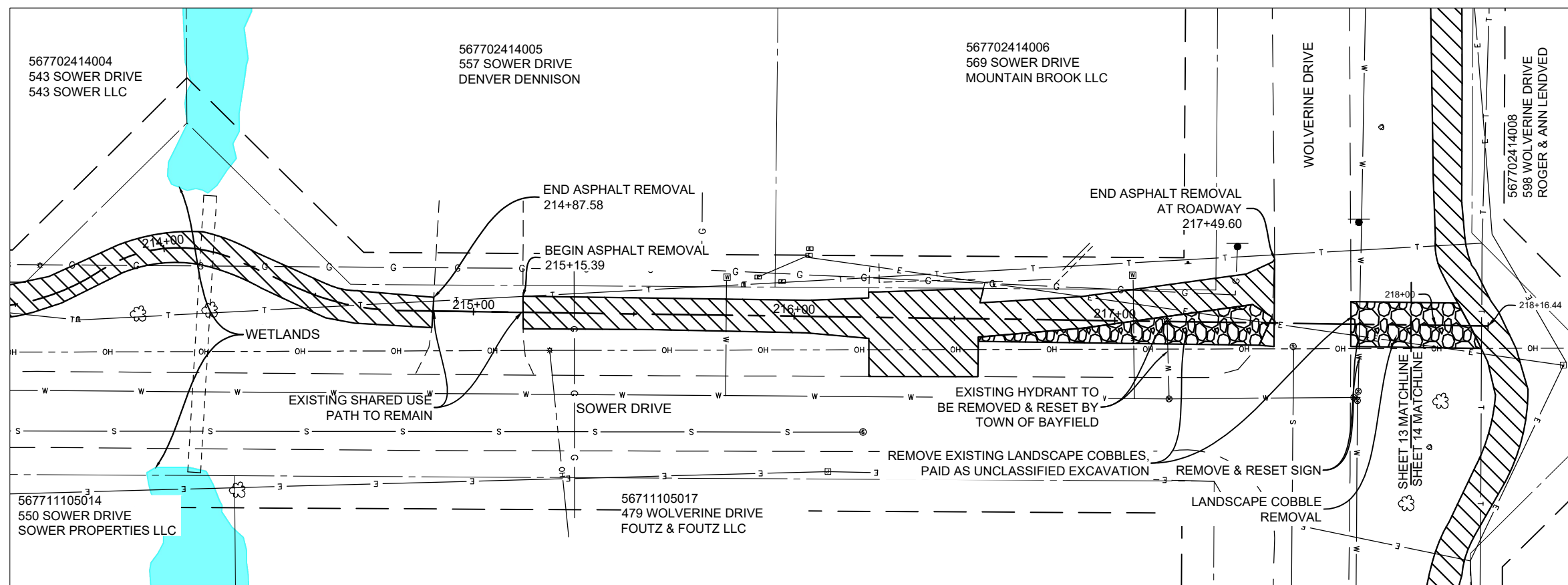
(R-X) 0000	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
	Date:	Comments	Init.			No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
						Revised:	REMOVALS - SOWER DR		
						Void:	Drafted: JMS	Reviewed: DC	Sheet Number



LEGEND (REMOVALS)

CONCRETE	
ASPHALT	
LANDSCAPE COBBLES	

NOTE: CONTRACTOR SHALL AVOID AND PROTECT ALL INDICATED WETLAND AREAS FROM INADVERTENT DREDGING AND DISCHARGES OR FILL, TRASH, OR OTHER UN-AUTHORIZED MATERIALS.



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453
 Region 5

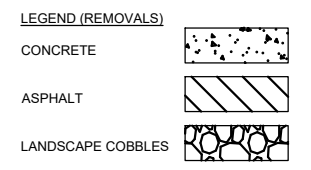
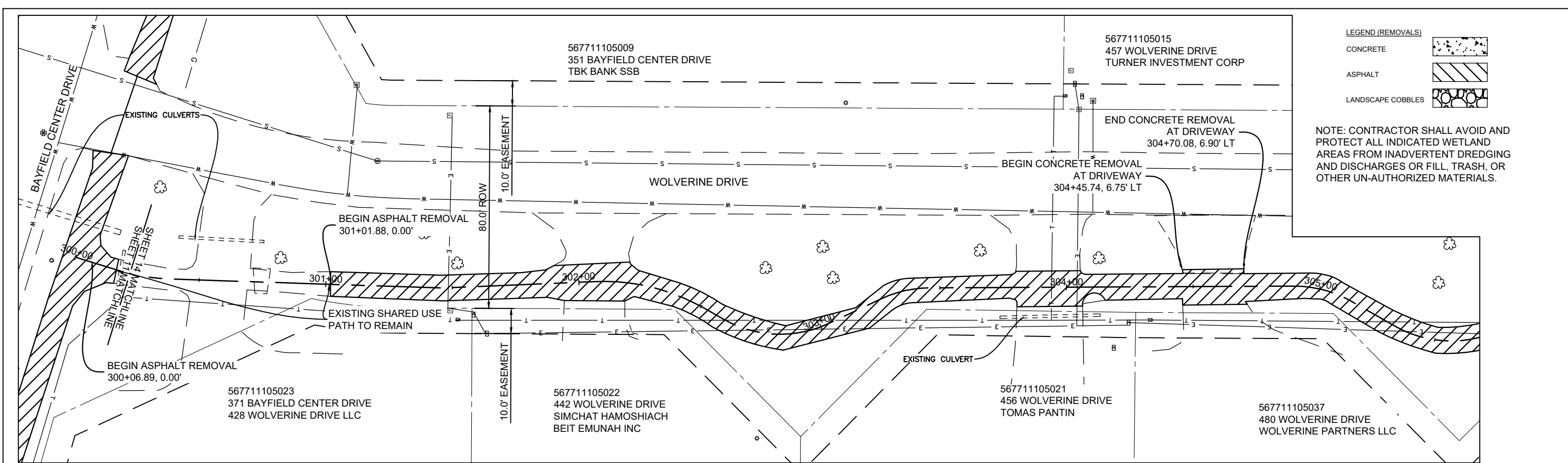
Town of Bayfield
 1199 Bayfield Parkway
 PO Box 80
 Bayfield, CO 81122
 Phone: 970-884-9544

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

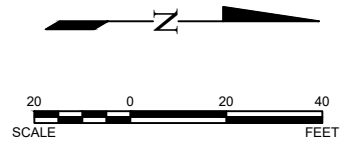
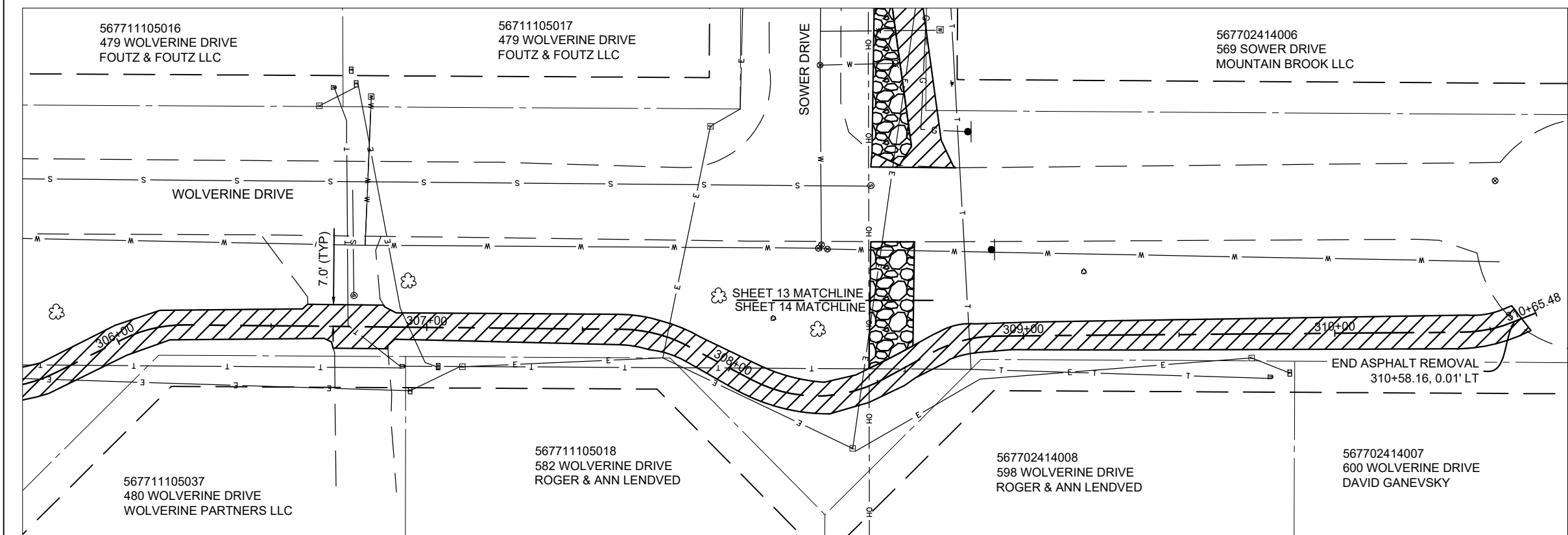
As Constructed
No Revisions:
Revised:
Void:

BAYFIELD SHARED USE PATH
 IMPROVEMENT PROJECT
REMOVALS - SOWER DR
 Drafted: JMS Reviewed: DC

Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400
 Sheet Number **14**



NOTE: CONTRACTOR SHALL AVOID AND PROTECT ALL INDICATED WETLAND AREAS FROM INADVERTENT DREDGING AND DISCHARGES OR FILL, TRASH, OR OTHER UN-AUTHORIZED MATERIALS.



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453
 Region 5

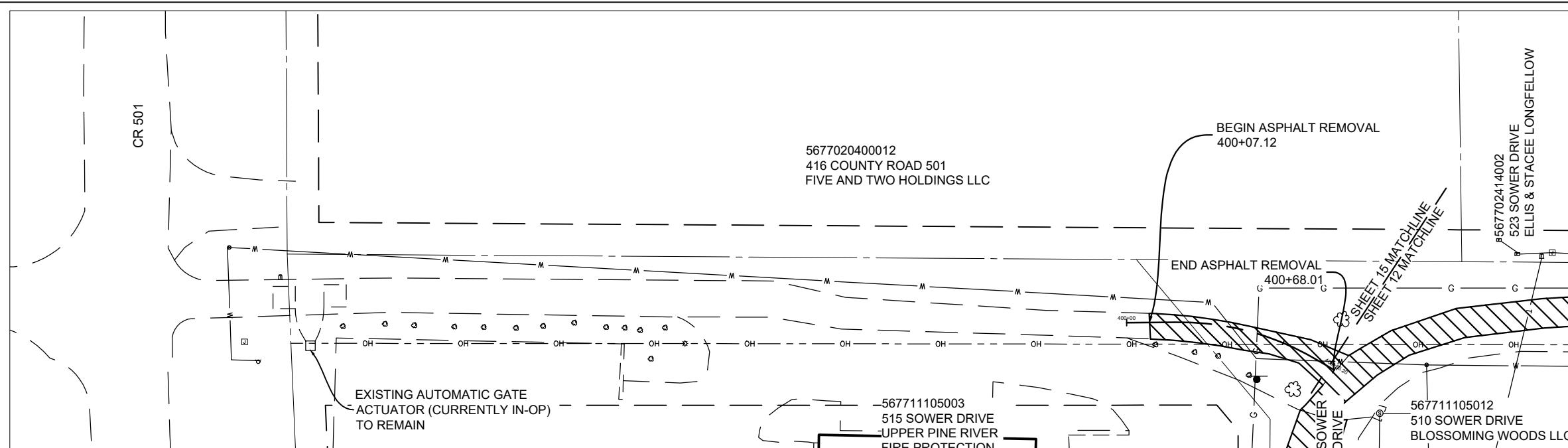
Town of Bayfield
 1199 Bayfield Parkway
 PO Box 80
 Bayfield, CO 81122
 Phone: 970-884-9544

KLJ
 KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

As Constructed
 No Revisions:
 Revised:
 Void:

BAYFIELD SHARED USE PATH
 IMPROVEMENT PROJECT
REMOVALS - WOLVERINE DR
 Drafted: JMS Reviewed: DC

Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400
 Sheet Number **15**



LEGEND (REMOVALS)

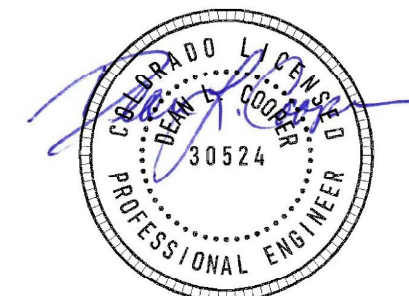
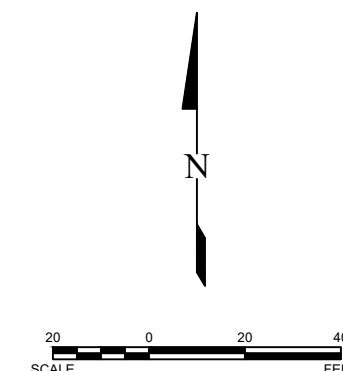
CONCRETE	
ASPHALT	
LANDSCAPE COBBLES	

NOTE: CONTRACTOR SHALL AVOID AND PROTECT ALL INDICATED WETLAND AREAS FROM INADVERTENT DREDGING AND DISCHARGES OR FILL, TRASH, OR OTHER UN-AUTHORIZED MATERIALS.

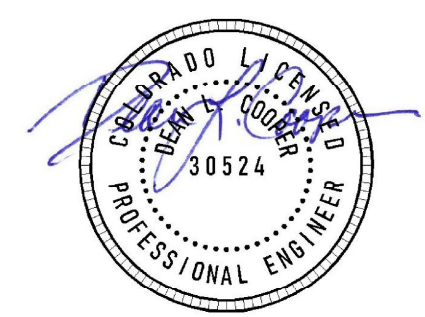
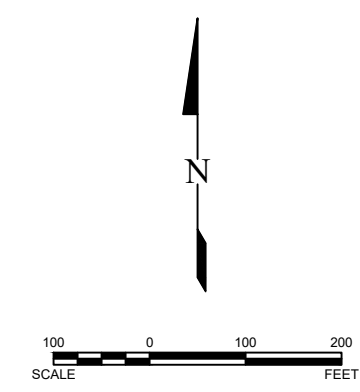
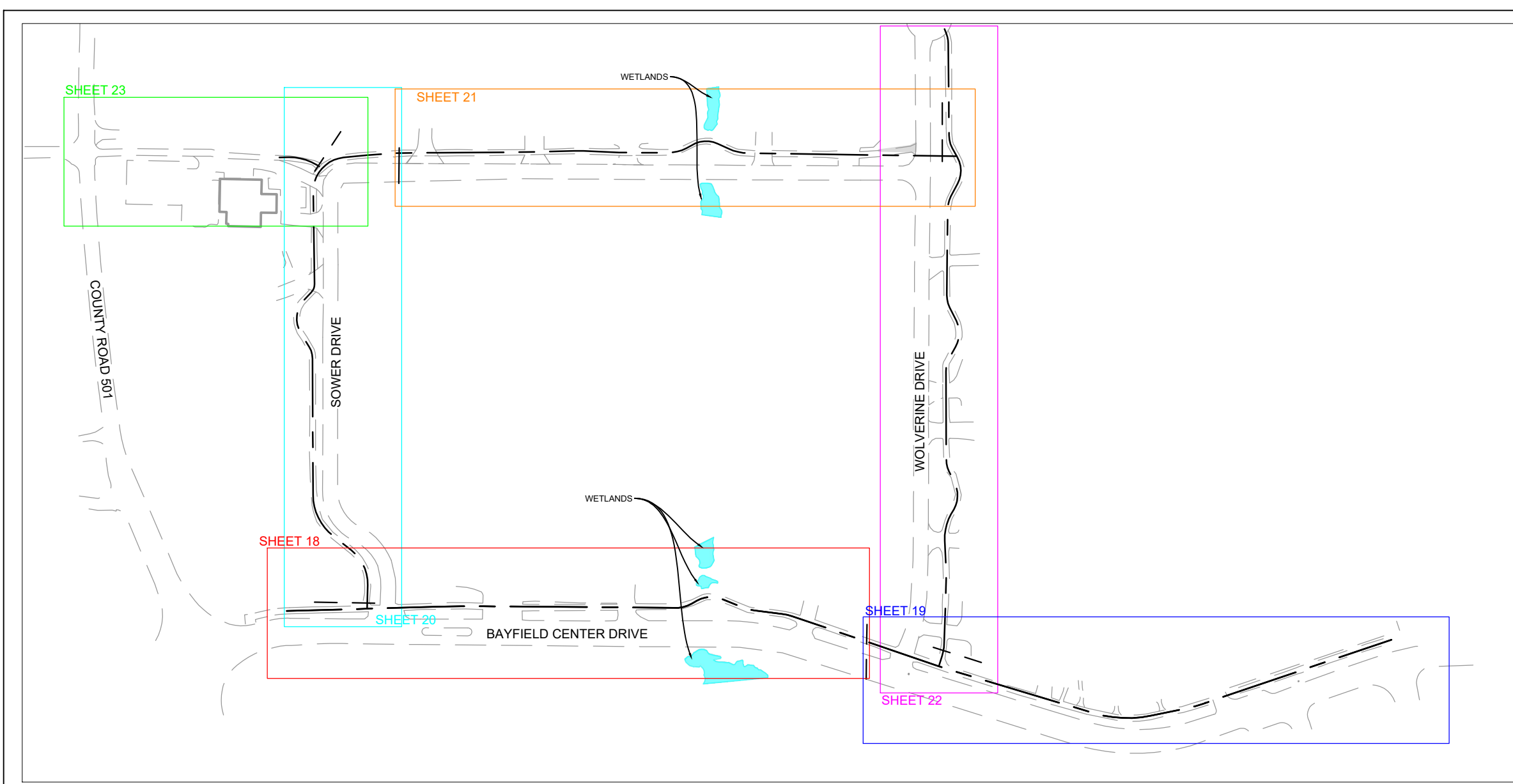
Tabulation of Removals			
Station		Rem Sidewalk	Notes
From	To	SY	
BAYFIELD CENTER DRIVE			
100+00	118+55	1890	
SOWER DRIVE			
200+00	218+16	1912	
WOLVERINE DRIVE			
301+00	310+65	1072	
CR501 CONNECTOR			
400+00	400+68	75	
Project Totals		4949	

SUMMARY OF EARTHWORK QUANTITIES	
PAY QUANTITIES:	
UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)	
ROADWAY REGULAR UNCLASSIFIED EXCAVATION QUANTITY	2,262
ADJUSTMENT FOR HARDSCAPE REMOVAL (SEE NOTE 1)	412
TOTAL QUANTITY FOR UNCLASSIFIED EXCAVATION MATERIAL (COMPLETE IN PLACE) PAY QUANTITY	1,850
FOR INFORMATION ONLY:	
EMBANKMENT MATERIAL (COMPLETE IN PLACE)	
ROADWAY REGULAR EMBANKMENT QUANTITY (SEE NOTE 1)	0
TOTAL FOR EMBANKMENT MATERIAL (COMPLETE IN PLACE)	0
FOR INFORMATION ONLY - EARTHWORK BALANCE	
UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE) (CUT)	
TOTAL UNCLASSIFIED EXCAVATION	1,850
TOTAL MATERIAL AVAILABLE FROM EXCAVATION	1,850
EMBANKMENT MATERIAL (COMPLETE IN PLACE) (FILL)	
EMBANKMENT MATERIAL	0
TOTAL MATERIAL NEEDED FOR EMBANKMENTS	0
EMBANKMENT MATERIAL EXPANDED	
TOTAL EMBANKMENT MULTIPLIED BY COMPACTION FACTOR (EMBANKMENT COMPACTION FACTOR = 1.20)	0
BALANCE	
TOTAL EXCESS MATERIAL	
TOTAL MATERIAL AVAILABLE FROM EXCAVATIONS LESS TOTAL MATERIAL NEEDED FOR EMBANKMENT (SEE NOTE 2)	1,850

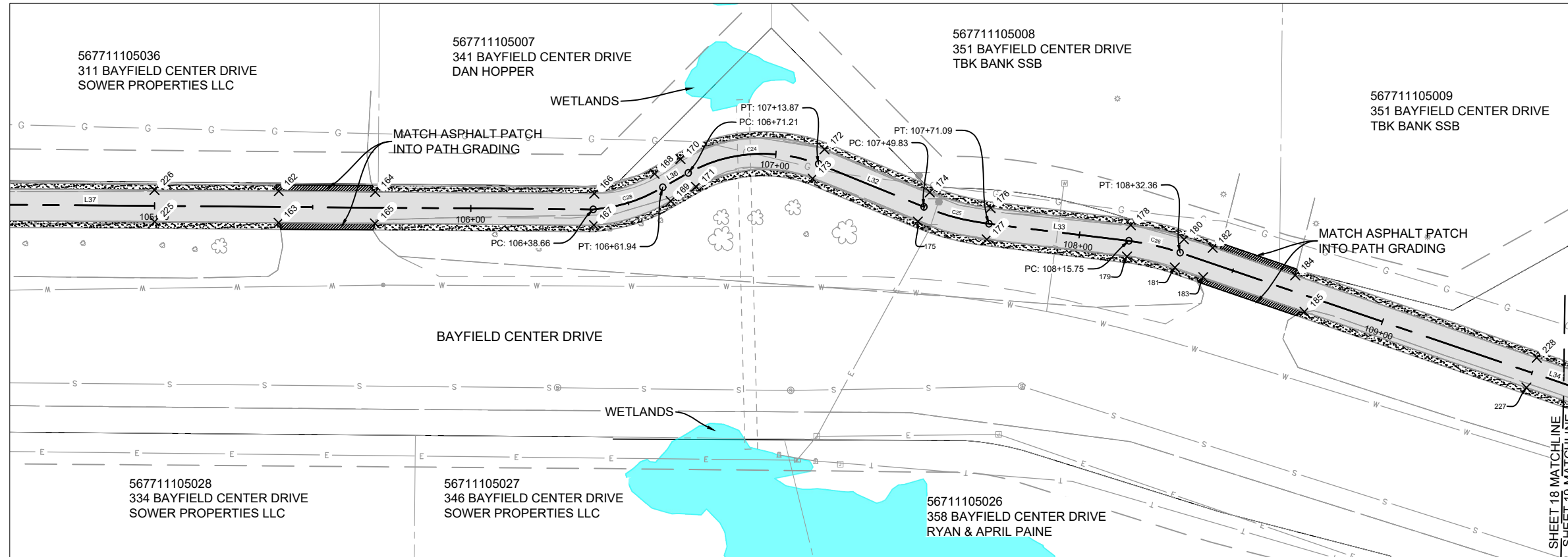
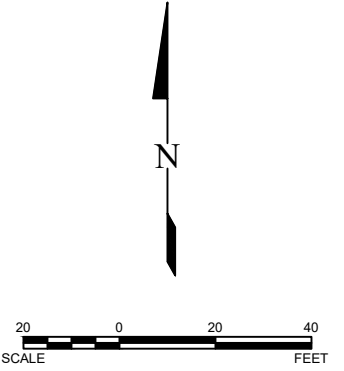
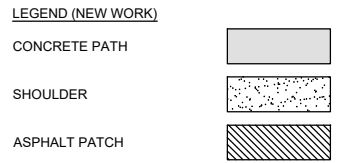
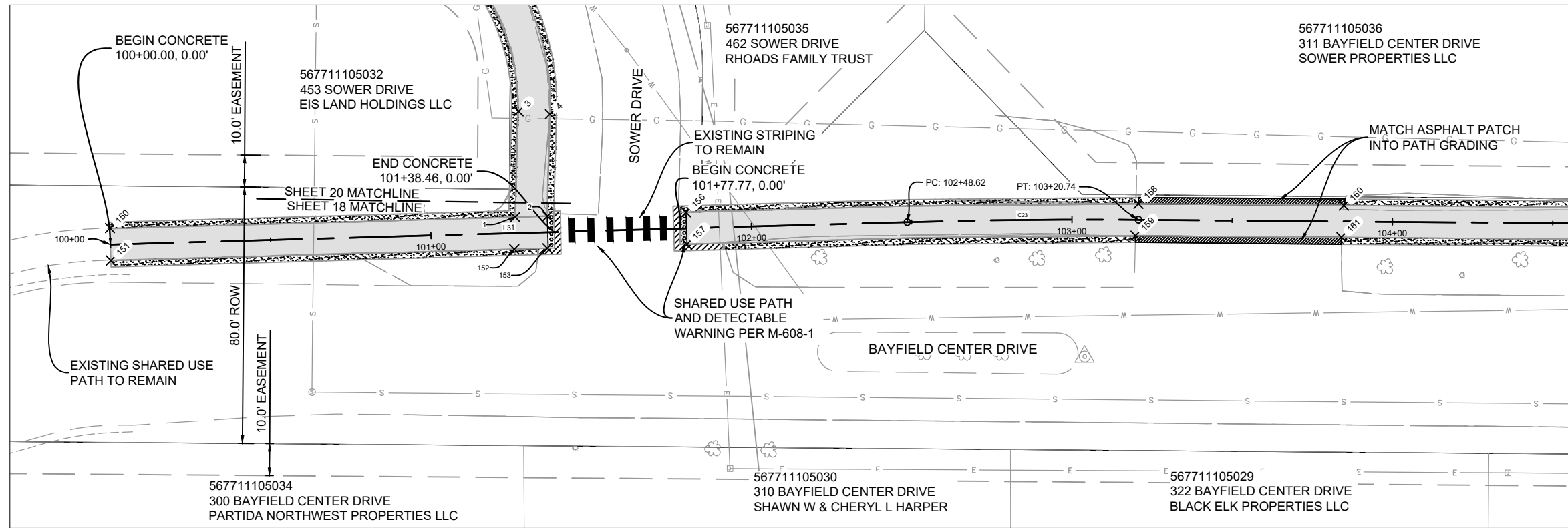
NOTES:
 1. THICKNESS OF HARDSCAPE IS ASSUMED TO BE 3" FOR ASPHALT AND 6" FOR CONCRETE.
 THIS QUANTITY REPRESENTS EXCESS MATERIAL CONTRACTOR SHALL EXPORT AND DISPOSE OFF SITE.



(R-X) ○ ○ ○	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
	Date:	Comments	Init.			No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
						Revised:		REMOVALS - CONNECTOR	
						Void:		Drafted: JMS Reviewed: DC	
							Sheet Number	16	



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT		Project No./Code	
	Date:	Comments	Init.				No Revisions:	ALIGNMENT - OVERVIEW		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
	Revised:						Void:	Drafted: JMS Reviewed: DC		Sheet Number 17	



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

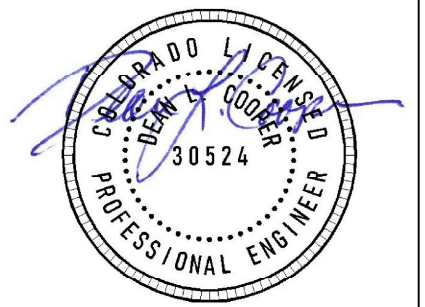
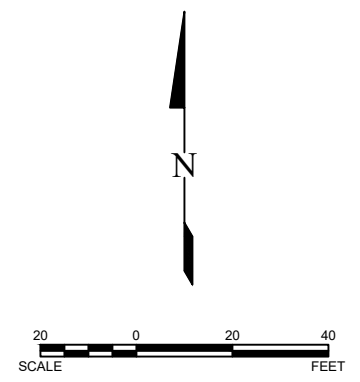
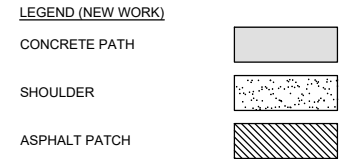
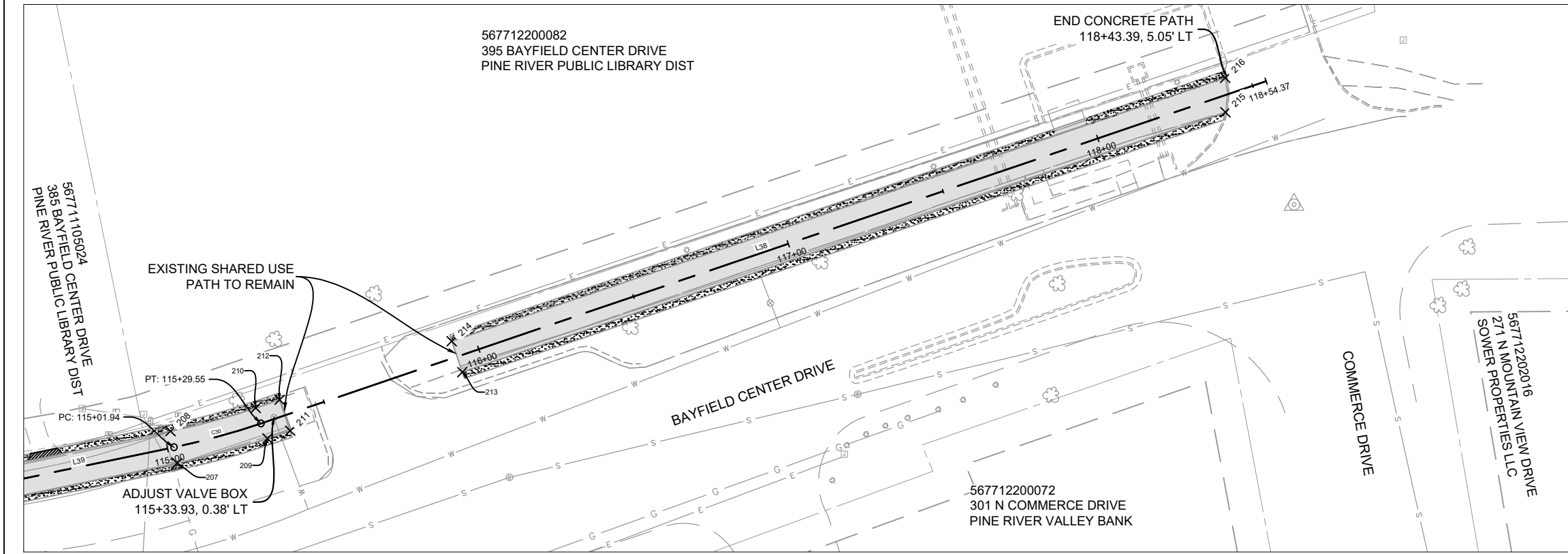
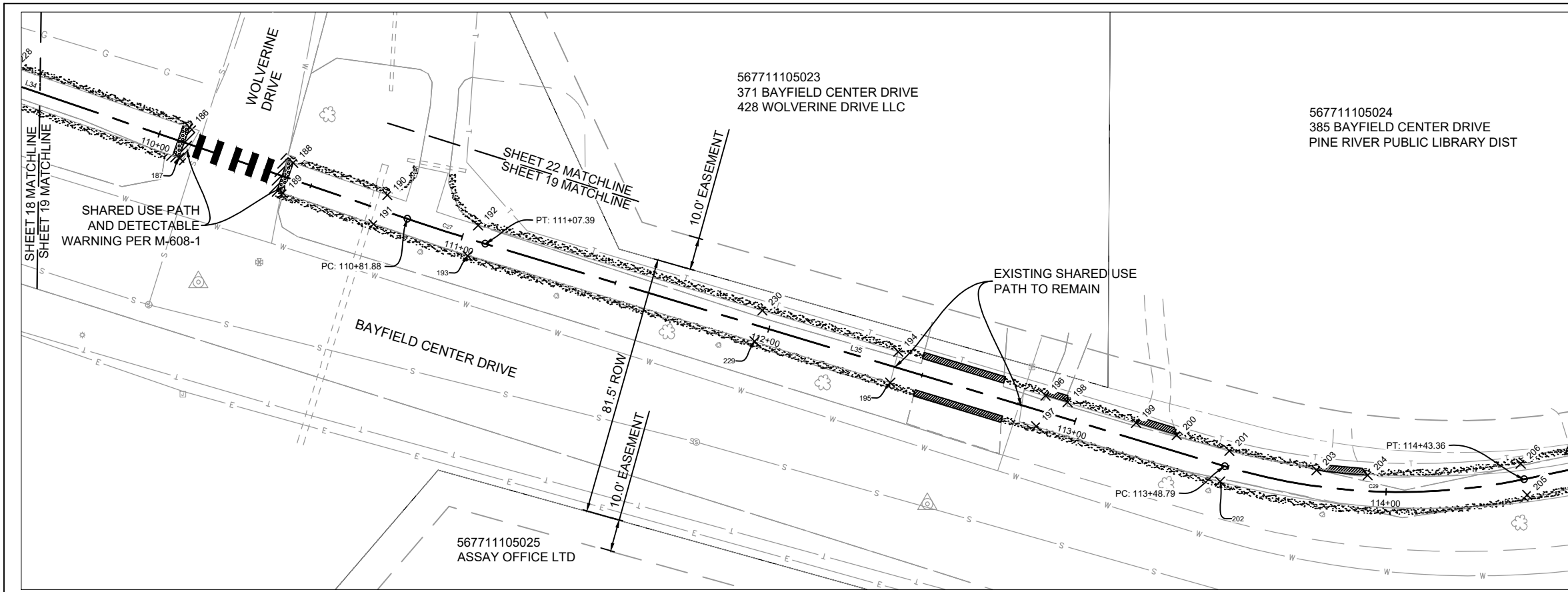
Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453
 Region 5

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

As Constructed
 No Revisions:
 Revised:
 Void:

BAYFIELD SHARED USE PATH
 IMPROVEMENT PROJECT
 ALIGNMENT - BAYFIELD DR
 Drafted: JMS Reviewed: DC

Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400
 Sheet Number **19**



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453

Region 5

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

As Constructed
 No Revisions:
 Revised:
 Void:

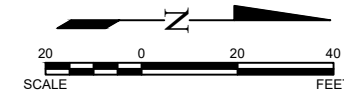
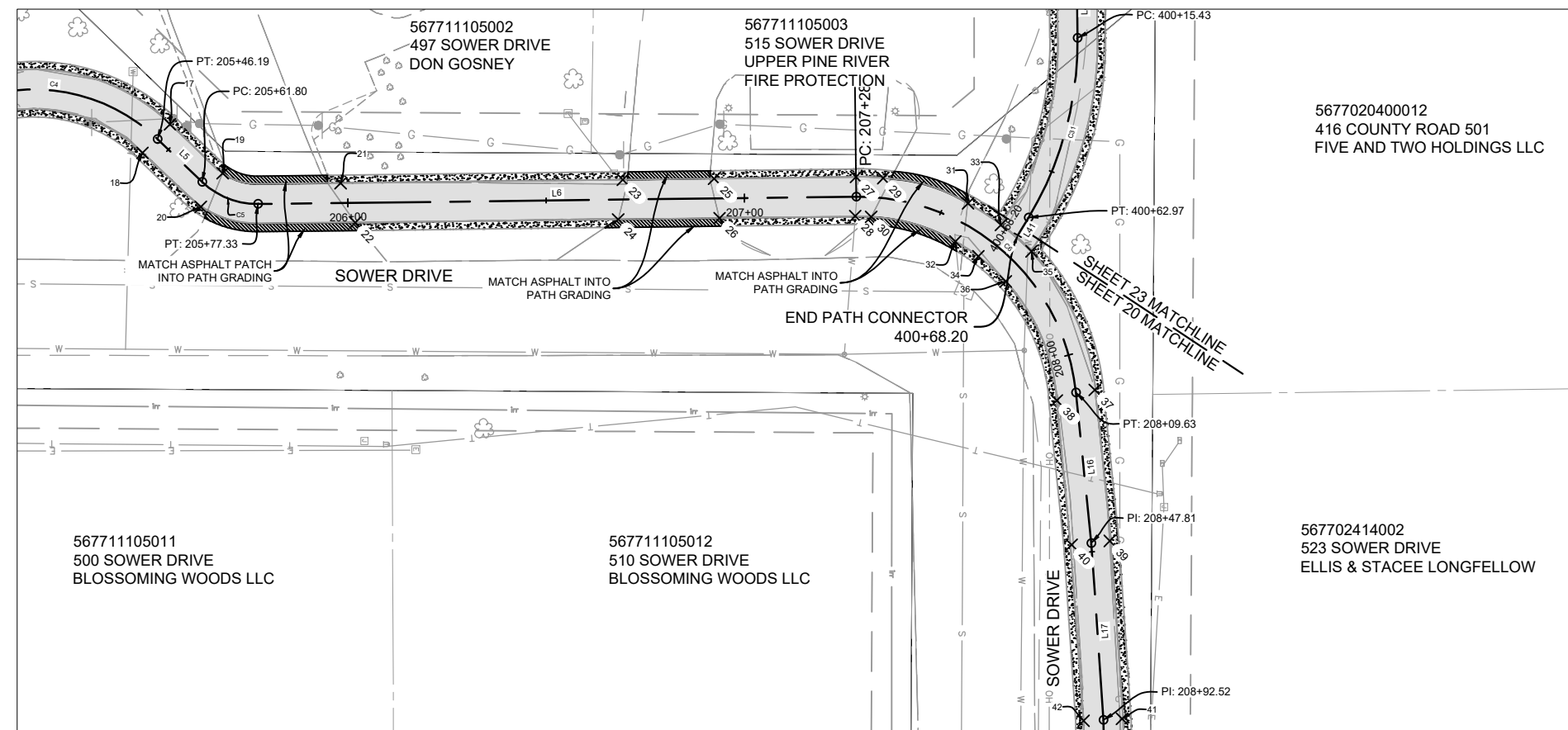
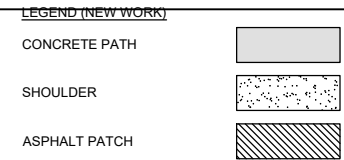
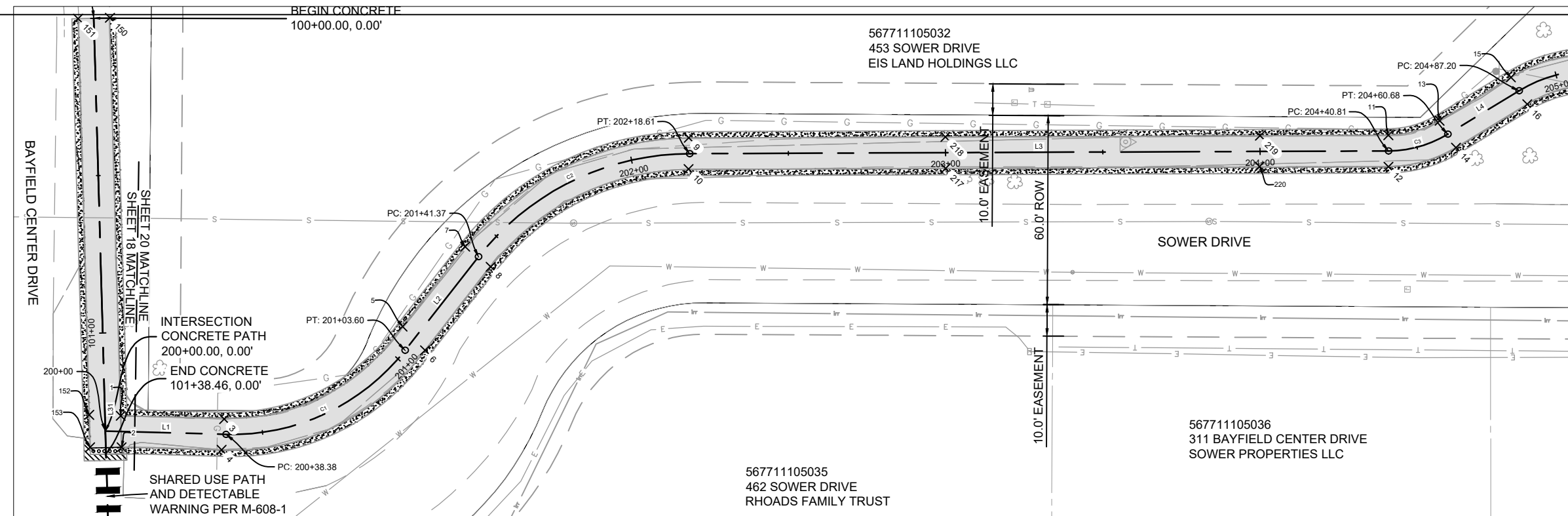
BAYFIELD SHARED USE PATH
 IMPROVEMENT PROJECT

ALIGNMENT - BAYFIELD DR

Drafted: JMS Reviewed: DC

Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400

Sheet Number **20**



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

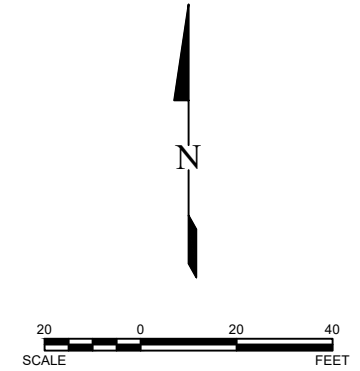
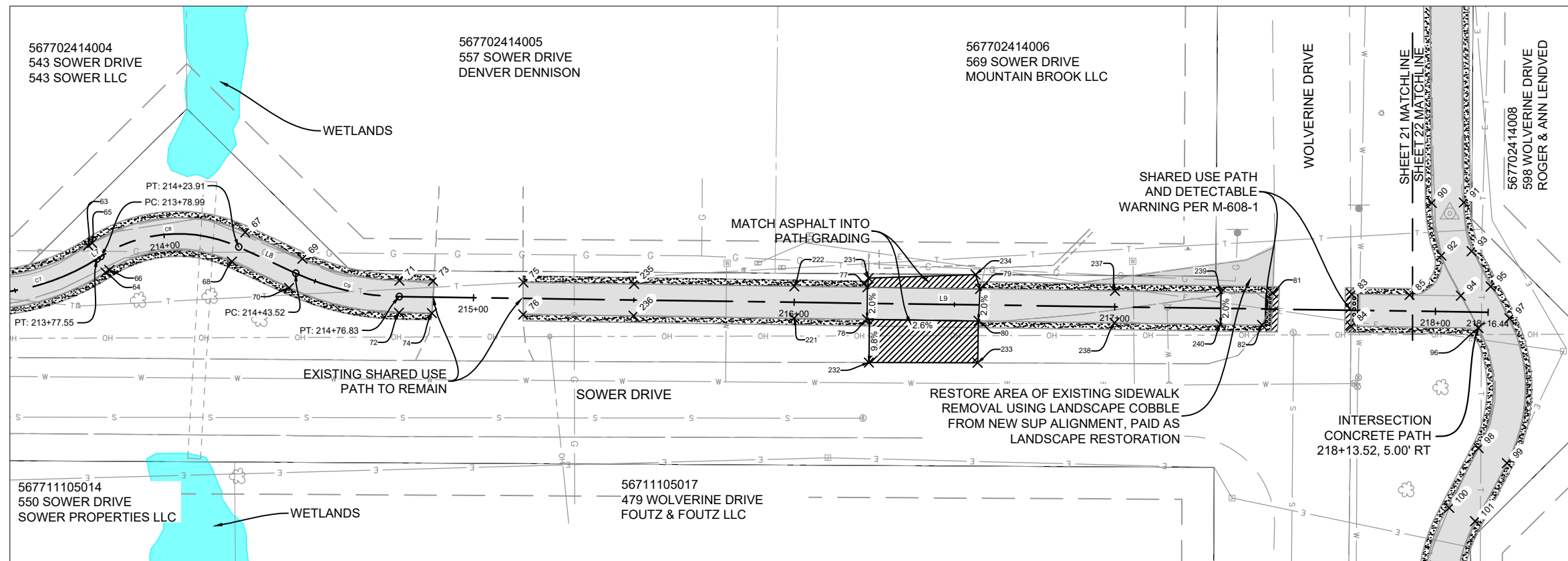
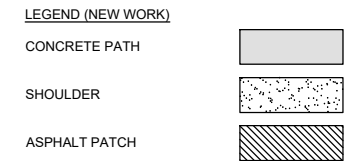
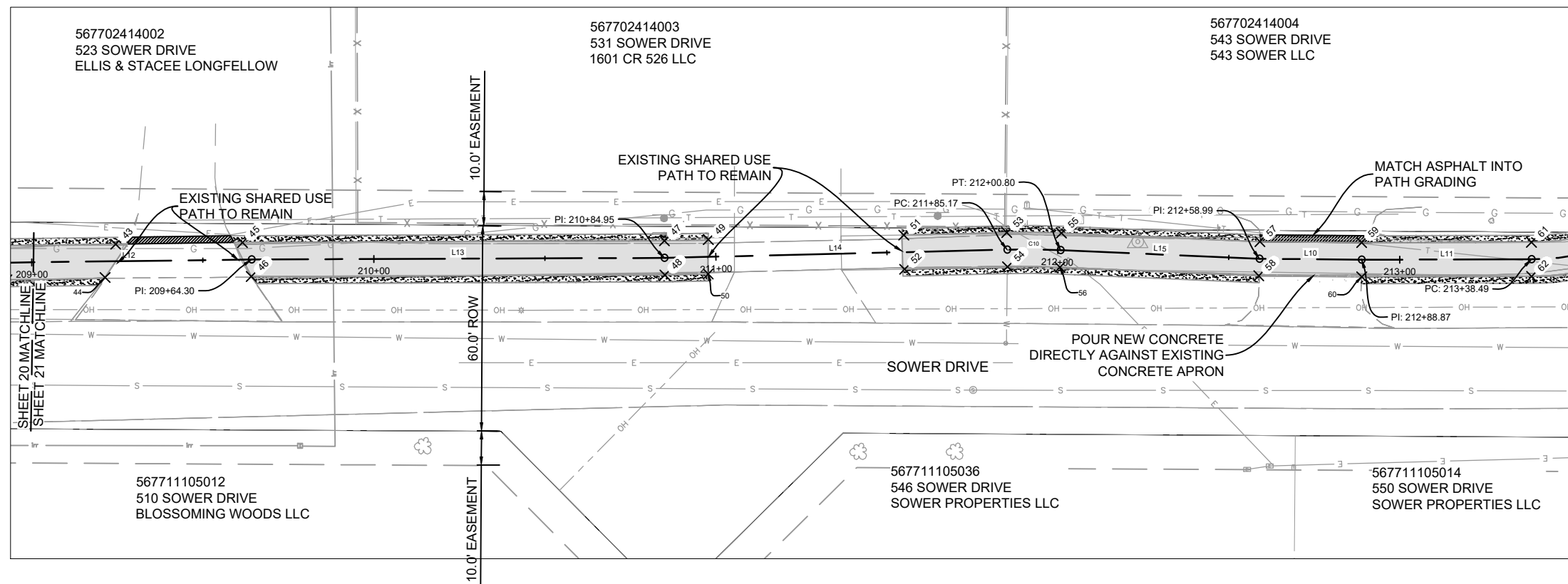
Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453
 Region 5

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

As Constructed
 No Revisions:
 Revised:
 Void:

BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT
 ALIGNMENT - SOWER DR
 Drafted: JMS Reviewed: DC

Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400
 Sheet Number **21**



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453
 Region 5

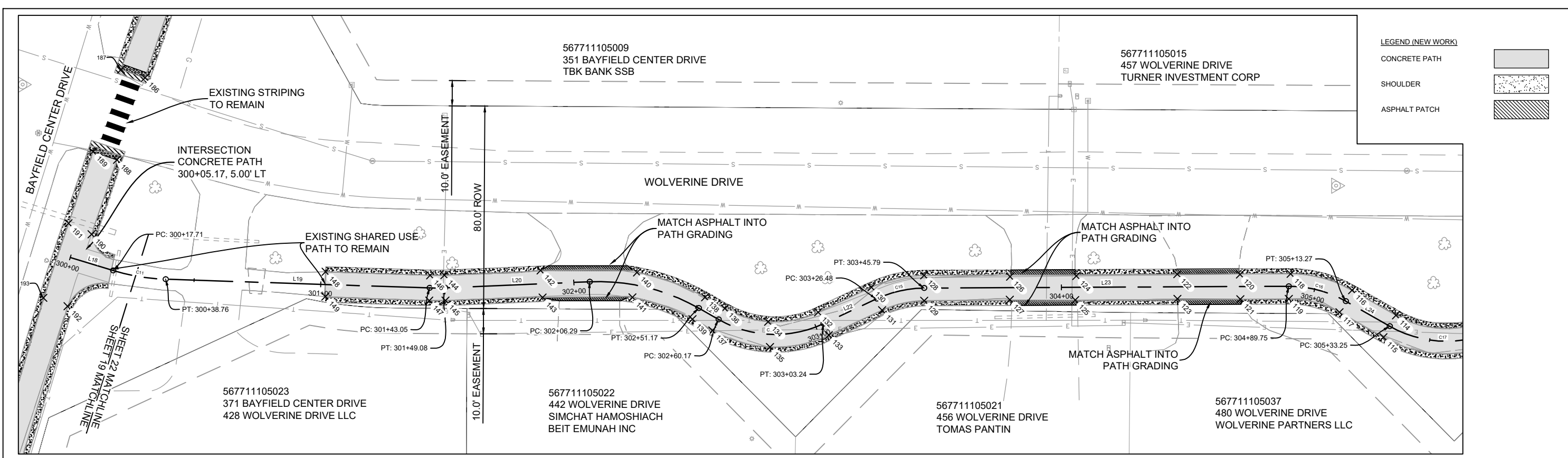
Town of Bayfield
 1199 Bayfield Parkway
 PO Box 80
 Bayfield, CO 81122
 Phone: 970-884-9544

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

As Constructed
No Revisions:
Revised:
Void:

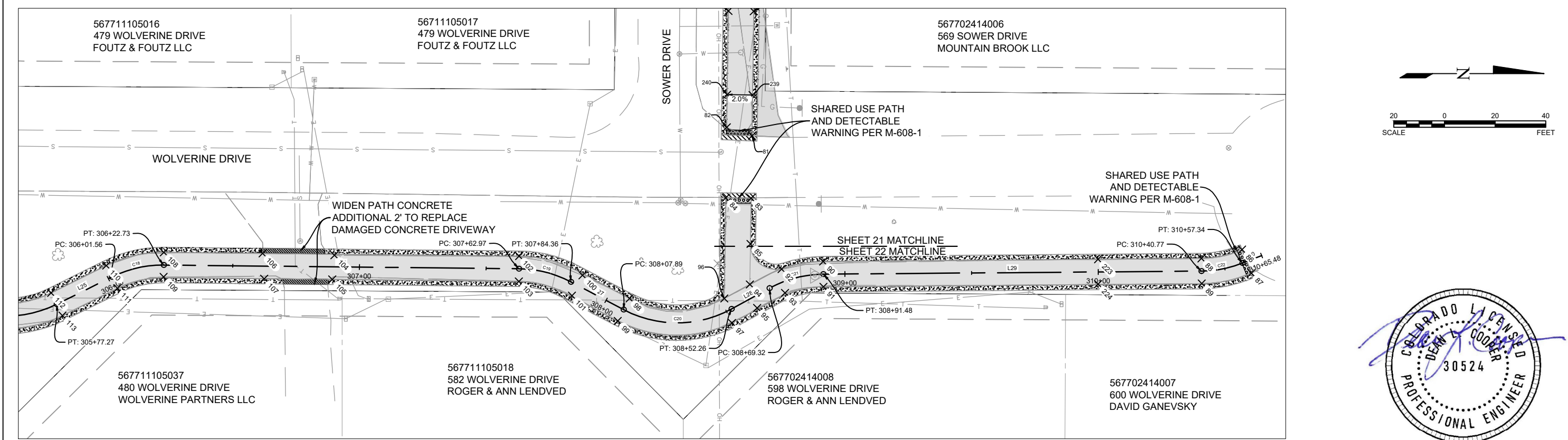
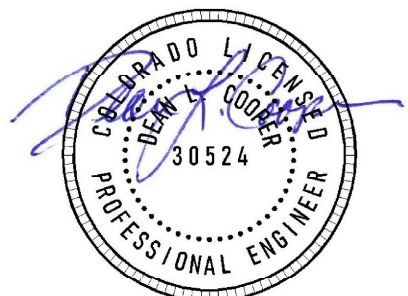
BAYFIELD SHARED USE PATH
 IMPROVEMENT PROJECT
 ALIGNMENT - SOWER DR
 Drafted: JMS Reviewed: DC

Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400
 Sheet Number **22**

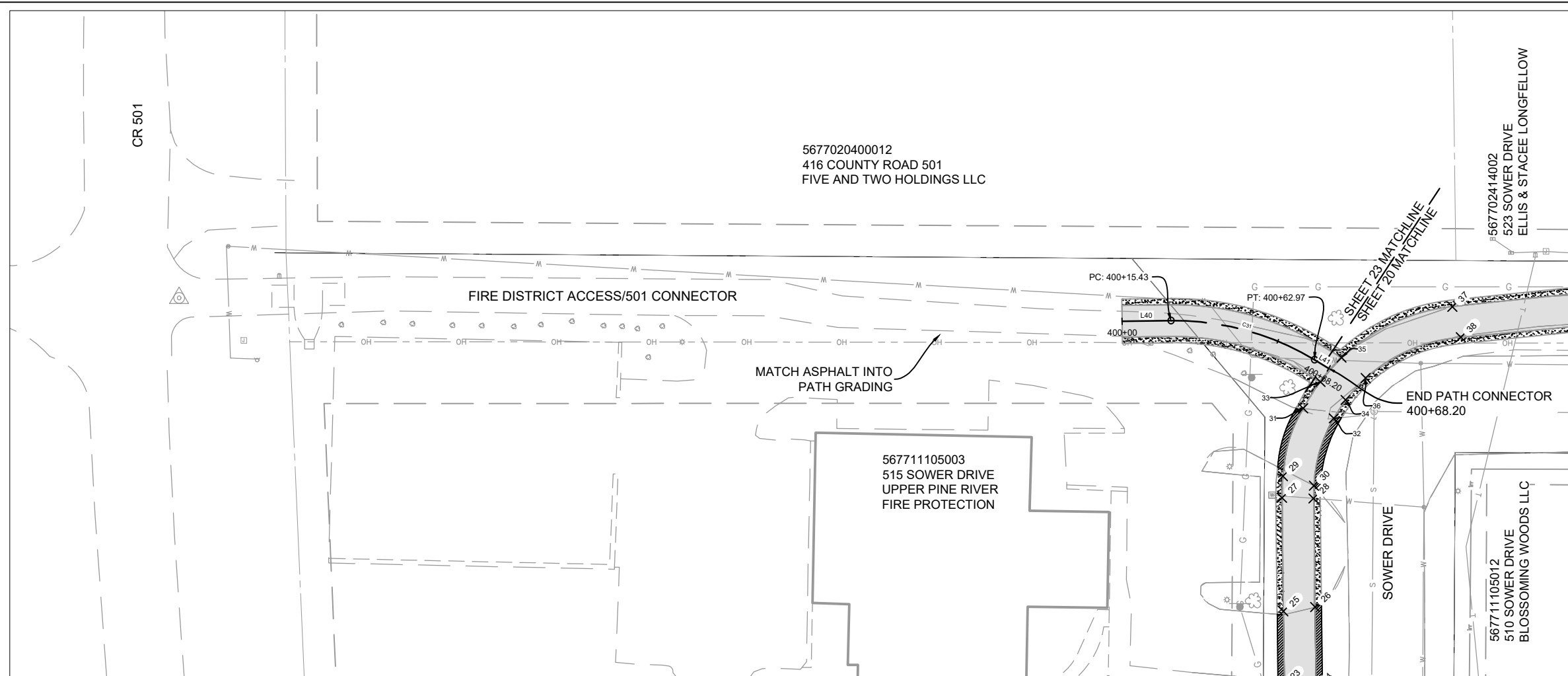


LEGEND (NEW WORK)

- CONCRETE PATH
- SHOULDER
- ASPHALT PATCH

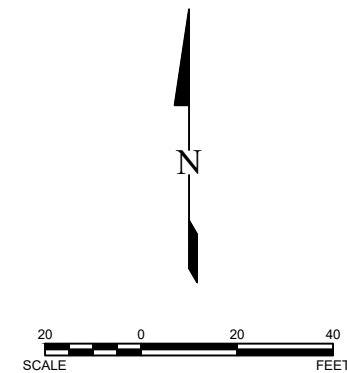



<p>(R-X)</p> <p>○</p> <p>○</p> <p>○</p>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT ALIGNMENT - WOLVERINE DR	Project No./Code	
	Date:	Comments	Init.				No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
	Revised:						Void:		Sheet Number 23	
							Drafted: JMS		Reviewed: DC	FOR BID PURPOSES ONLY - NOT FOR CONSTRUCTION © KLJ ENGINEERING, LLC 2021



LEGEND (NEW WORK)

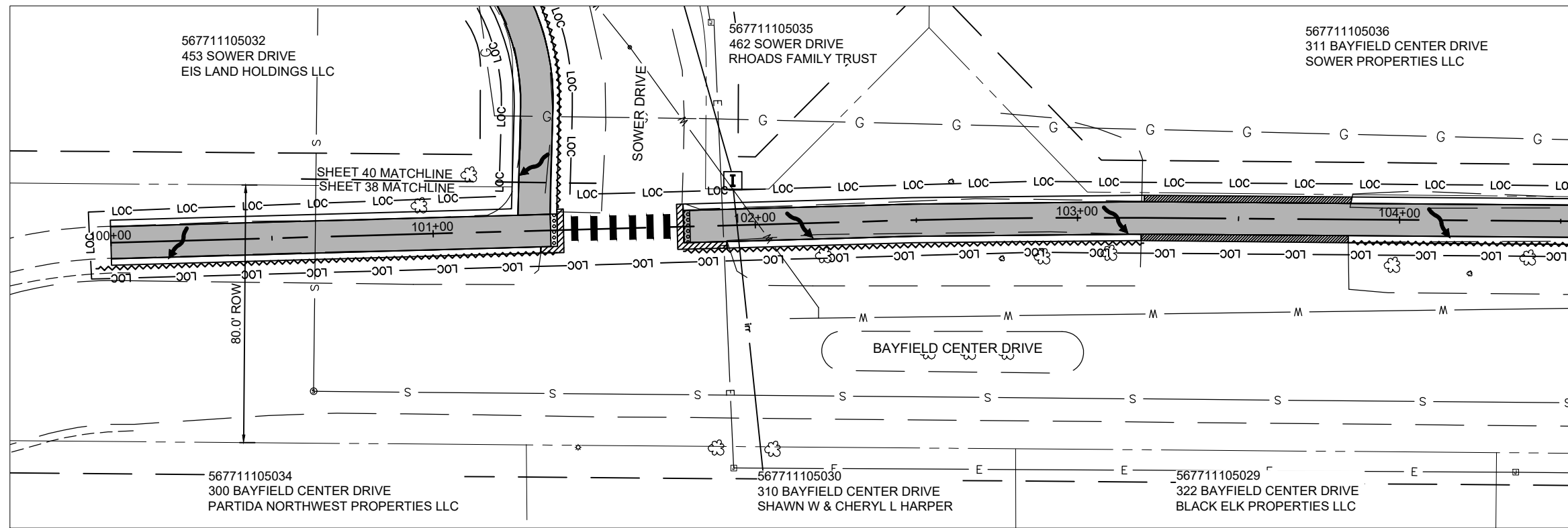
CONCRETE PATH	
SHOULDER	
ASPHALT PATCH	



Road Name	From	To	Segment Length	608-00006 Conc Sidewalk (6In)		304-06000 ABC (CL 6)				304-08002 ABC (Shoulder Material)				
				Width (ft)	Area (SF)	Area (SY)	Width (ft)	Thickness (ft)	Volume (CF)	Volume (CY)	Width (ft)	Thickness (ft)	Volume (CF)	Volume (CY)
Bayfield Center Dr	100+00.00	101+51.94	151.94	10	1519.4	168.8	14	0.5	1063.6	39.4	4	0.5	303.9	11.3
	101+77.76	110+10.27	832.51		8325.1	925.0			5827.6	215.8			1665.0	61.7
	110+40.49	115+37.32	496.83		4968.3	552.0			3477.8	128.8			993.7	36.8
	115+92.93	118+43.32	250.39		2503.9	278.2			1752.7	64.9			500.8	18.5
	Total	1731.67	Subtotal		17316.7	1924.1			Subtotal	12121.7			449.0	Subtotal
CR 501 Connector	400+00.00	400+68.00	68.00	10	680.0	75.6	14	0.5	476.0	17.6	4	0.5	136.0	5.0
	Total	68.00	Subtotal	680.0	75.6	Subtotal	476.0	17.6	Subtotal	136.0	5.0			
Sower Dr	200+05.01	205+65.87	560.86	10	5608.6	623.2	14	0.5	3926.0	145.4	4	0.5	1121.7	41.5
	205+98.22	206+69.38	71.16		711.6	79.1			498.1	18.4			142.3	5.3
	206+92.42	207+34.47	42.05		420.5	46.7			294.4	10.9			84.1	3.1
	207+55.06	209+24.61	169.55		1695.5	188.4			1186.8	44.0			339.1	12.6
	209+61.68	211+05.31	143.63		1436.3	159.6			1005.4	37.2			287.3	10.6
	211+55.06	214+87.30	332.24		3322.4	369.2			2325.7	86.1			664.5	24.6
	215+15.46	217+49.31	233.85		2338.5	259.8			1637.0	60.6			467.7	17.3
	217+73.81	218+10.73	36.92		369.2	41.0			258.4	9.6			73.8	2.7
Total	1590.26	Subtotal	15902.6	1767.0	Subtotal	11131.8	412.3	Subtotal	3180.5	117.8				
Wolverine Dr	301+01.75	310+65.48	963.73	10	9637.3	1070.8	14	0.5	6746.1	249.9	4	0.5	1927.5	71.4
	Total	963.73	Subtotal	9637.3	1070.8	Subtotal	6746.1	249.9	Subtotal	1927.5	71.4			
Total	4353.7	Total	43536.6	4837.4	Total	30475.6	3386.2	Total	8707.3	967.5				

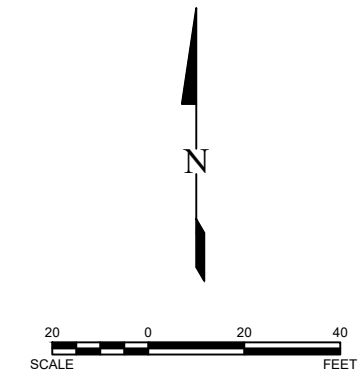
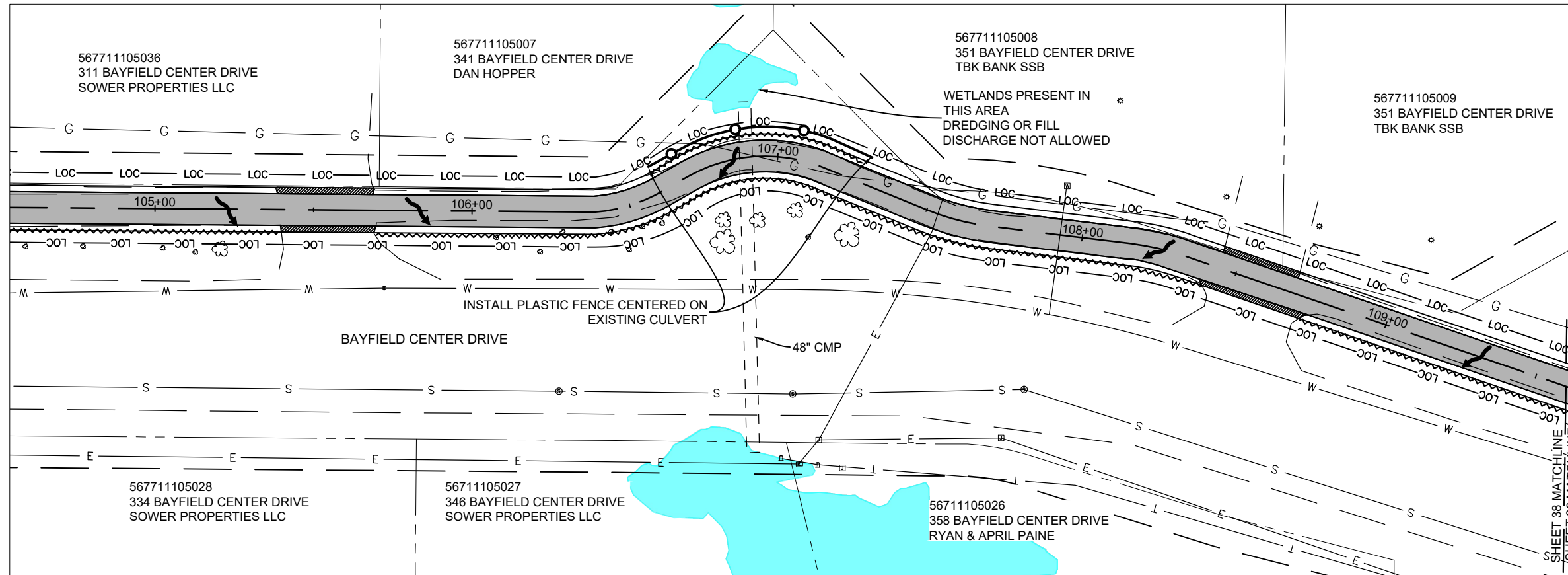


(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
	Date:	Comments	Init.			No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
						Revised:	ALIGNMENT - CONNECTOR		
						Void:	Drafted: JMS	Reviewed: DC	Sheet Number



- LEGEND:**
- DIRECTION OF RUN-OFF FLOW (not a pay item)
 - PLASTIC FENCE
 - EROSION CONTROL LOG
 - LIMITS OF CONSTRUCTION AREA
 - EXISTING EASEMENT
 - EXISTING ROW / PROPERTY LINE

NOTE: LIMIT OF CONSTRUCTION (LOC) IS THE SAME AS LIMIT OF DISTURBED AREA (LDA).



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

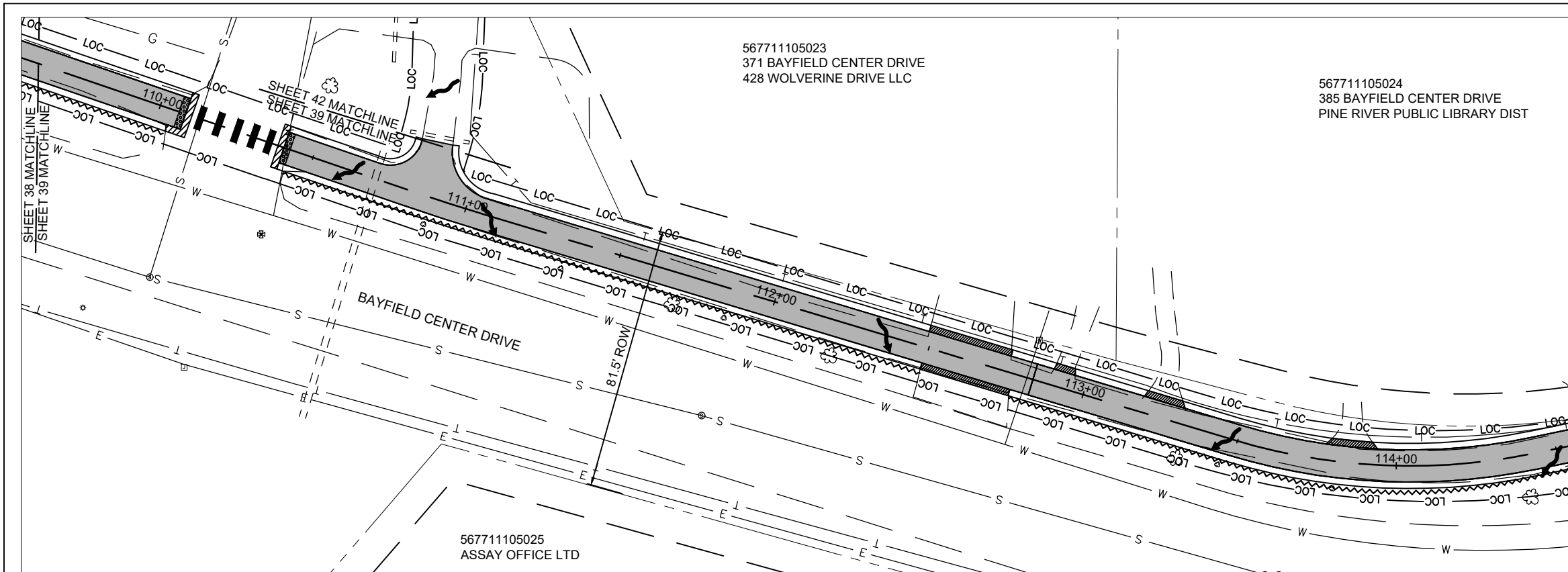
Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

As Constructed
 No Revisions:
 Revised:
 Void:

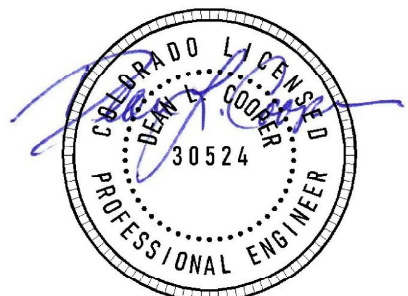
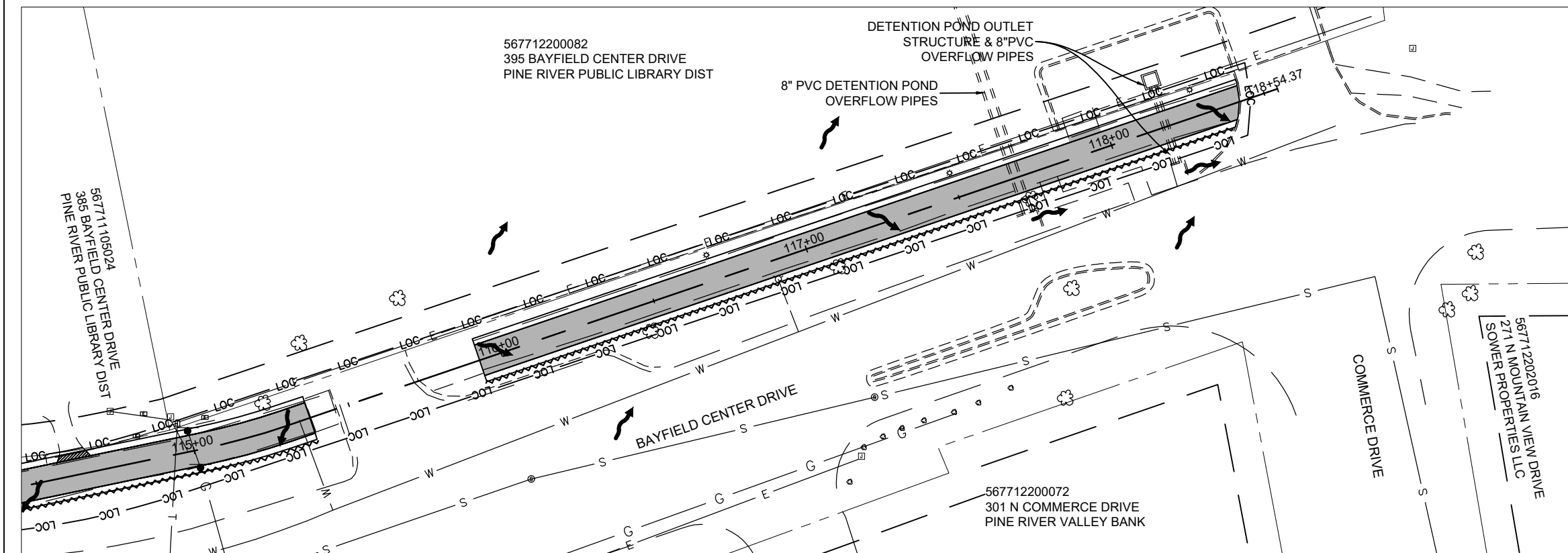
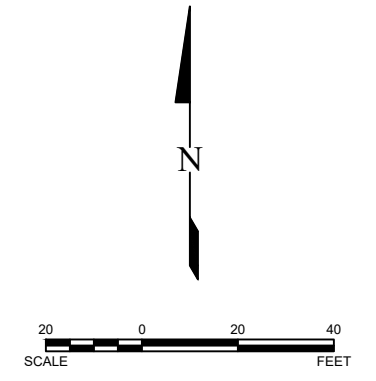
BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT
EROSION CONTROL - BAYFIELD DR
 Drafted: JMS Reviewed: DC

Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400
 Sheet Number **25**



- LEGEND:**
- DIRECTION OF RUN-OFF FLOW (not a pay item)
 - PLASTIC FENCE
 - EROSION CONTROL LOG
 - LIMITS OF CONSTRUCTION AREA
 - EXISTING EASEMENT
 - EXISTING ROW / PROPERTY LINE

NOTE: LIMIT OF CONSTRUCTION (LOC) IS THE SAME AS LIMIT OF DISTURBED AREA (LDA).



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

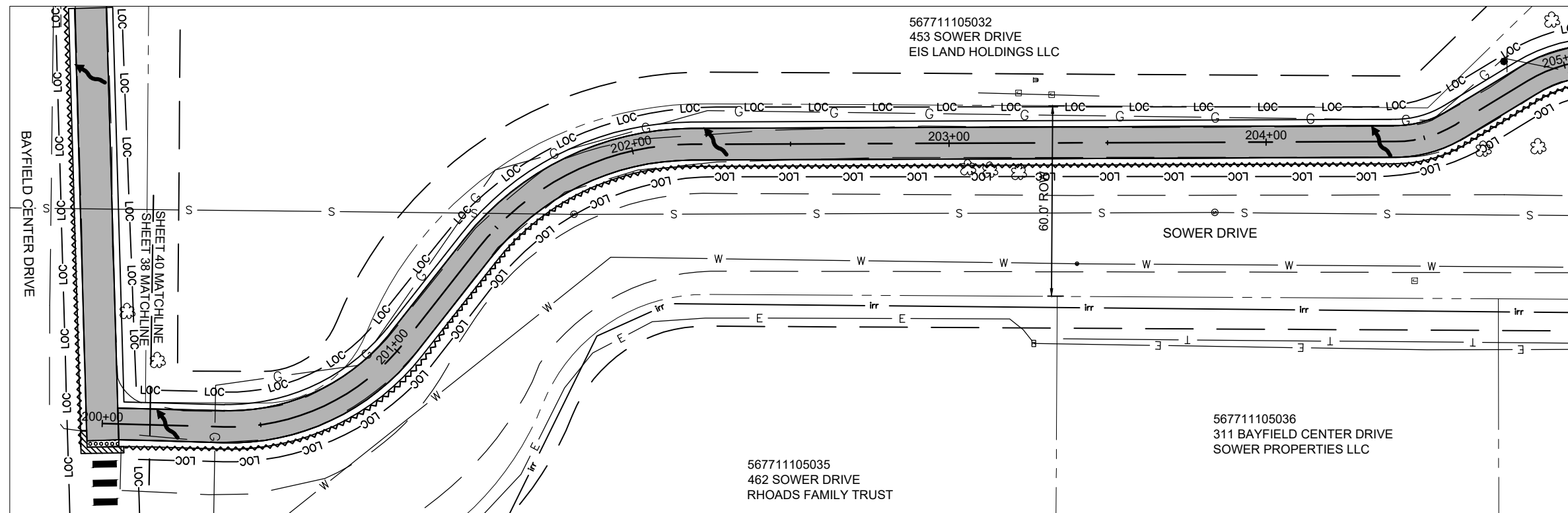
Colorado Department of Transportation
Region 5 Office
3803 North Main Avenue
Durango, CO 81301
Phone: 970-385-1453

Region 5

KLJ Engineering, LLC
1601 Riverfront Drive
Grand Junction, CO 81501
Phone: 970-450-7474

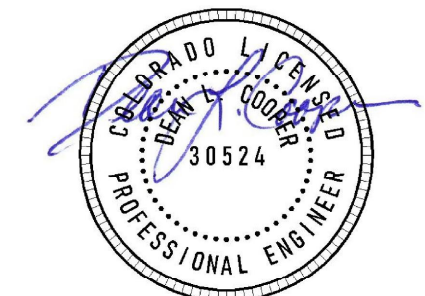
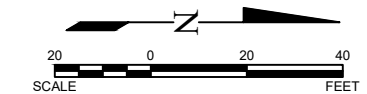
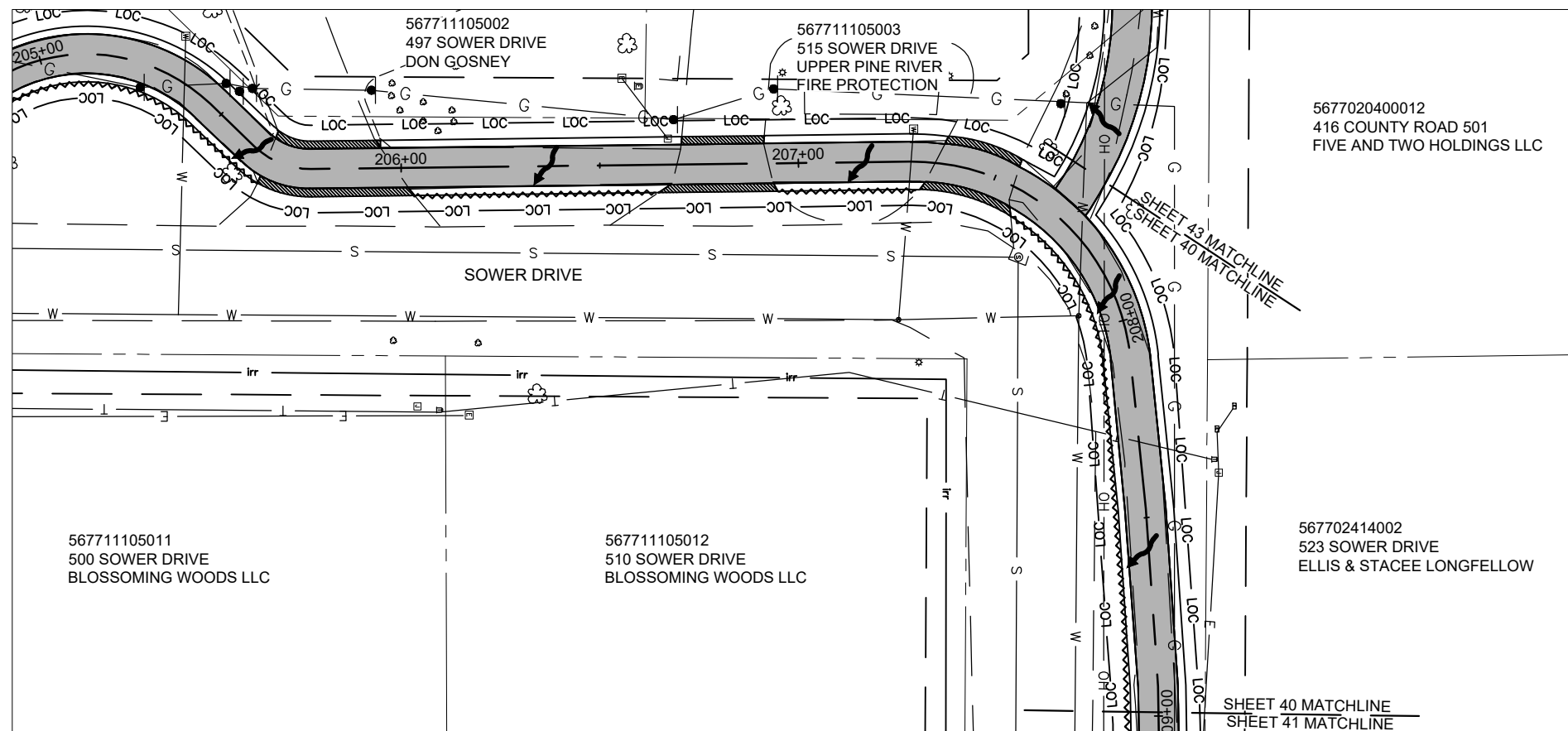
Town of Bayfield
1199 Bayfield Parkway
PO Box 80
Bayfield, CO 81122
Phone: 970-884-9544

As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
No Revisions:		TAP M300-001, SUB 23709	
Revised:		MTF M065-008, SUB 24004	
Void:		KLJ PROJ # 2104-01400	
	EROSION CONTROL - BAYFIELD DR	Drafted: JMS	Reviewed: DC
		Sheet Number 26	

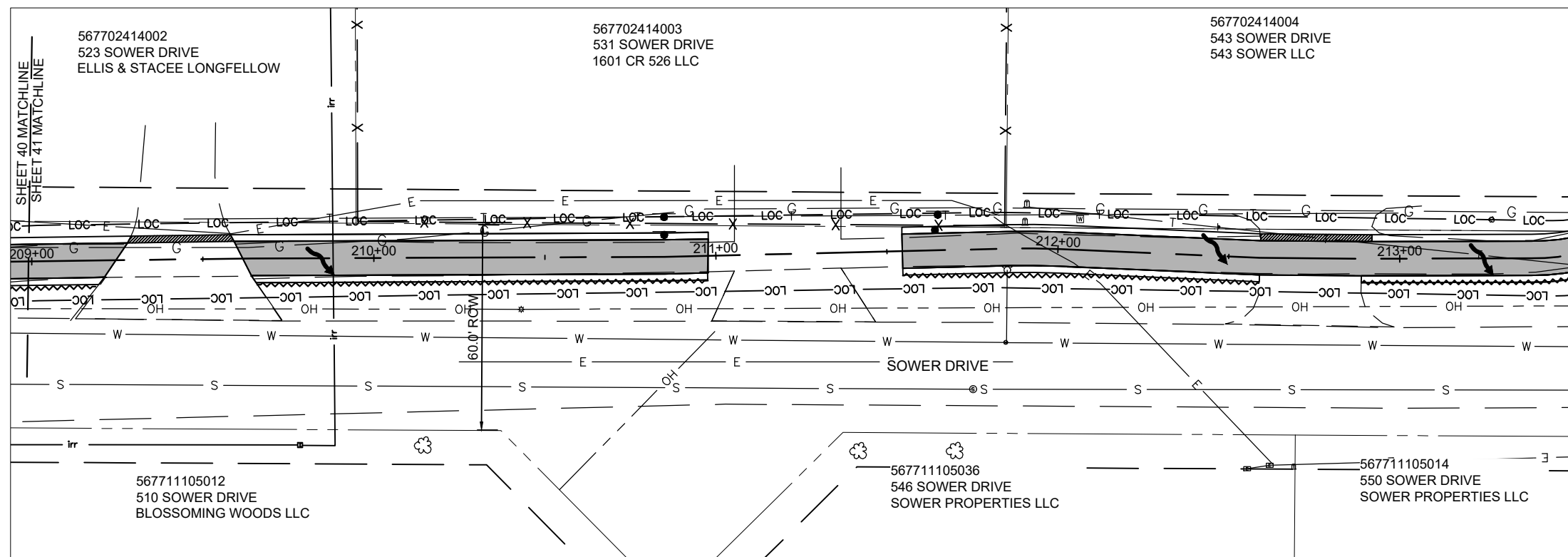


- LEGEND:**
- DIRECTION OF RUN-OFF FLOW (not a pay item)
 - PLASTIC FENCE
 - EROSION CONTROL LOG
 - LIMITS OF CONSTRUCTION AREA
 - EXISTING EASEMENT
 - EXISTING ROW / PROPERTY LINE

NOTE: LIMIT OF CONSTRUCTION (LOC) IS THE SAME AS LIMIT OF DISTURBED AREA (LDA).

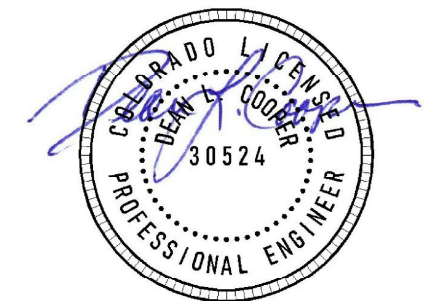
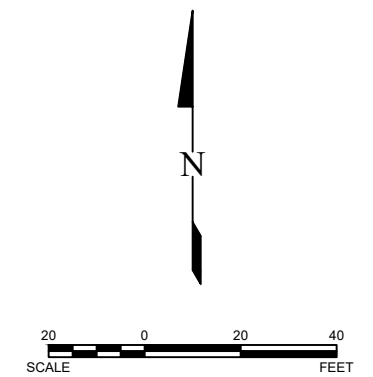
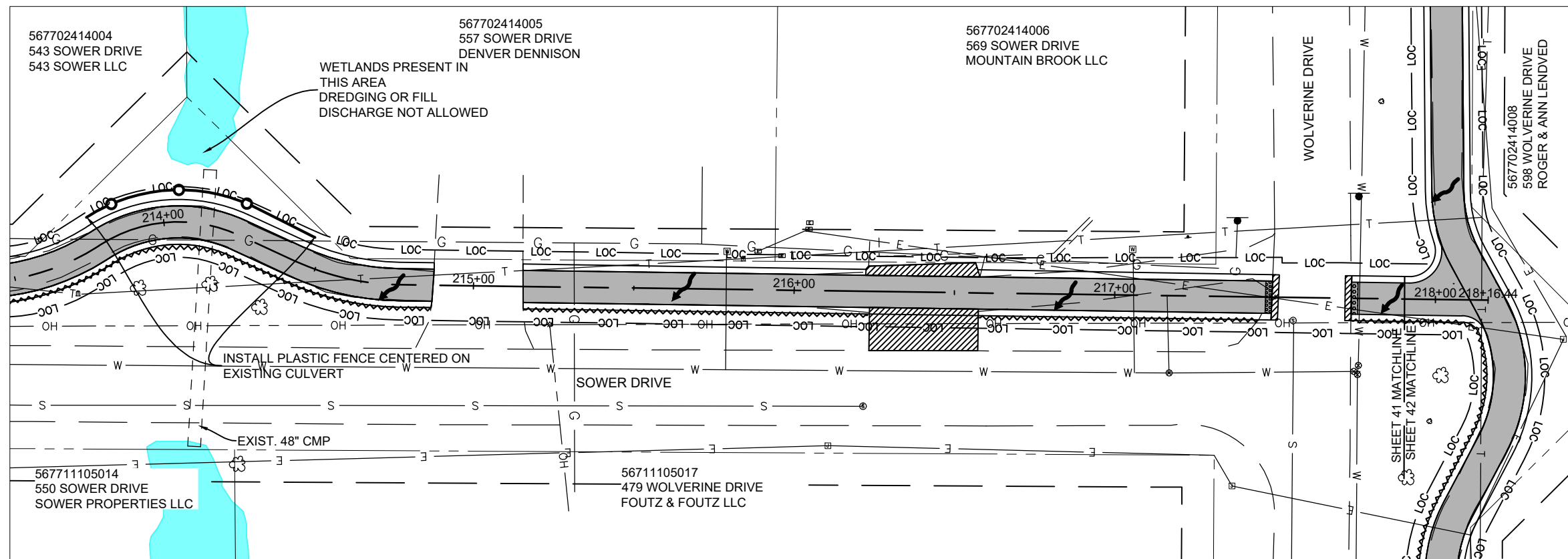


<p>(R-X)</p> <p>○</p> <p>○</p> <p>○</p>	Sheet Revisions			<p>Colorado Department of Transportation</p> <p>Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453</p> <p>Region 5</p>	<p>Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544</p>	<p>KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474</p>	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
	No Revisions:	EROSION CONTROL - SOWER DR	TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400							
	Revised:		Drafted: JMS				Reviewed: DC	Sheet Number	27	
	Void:									

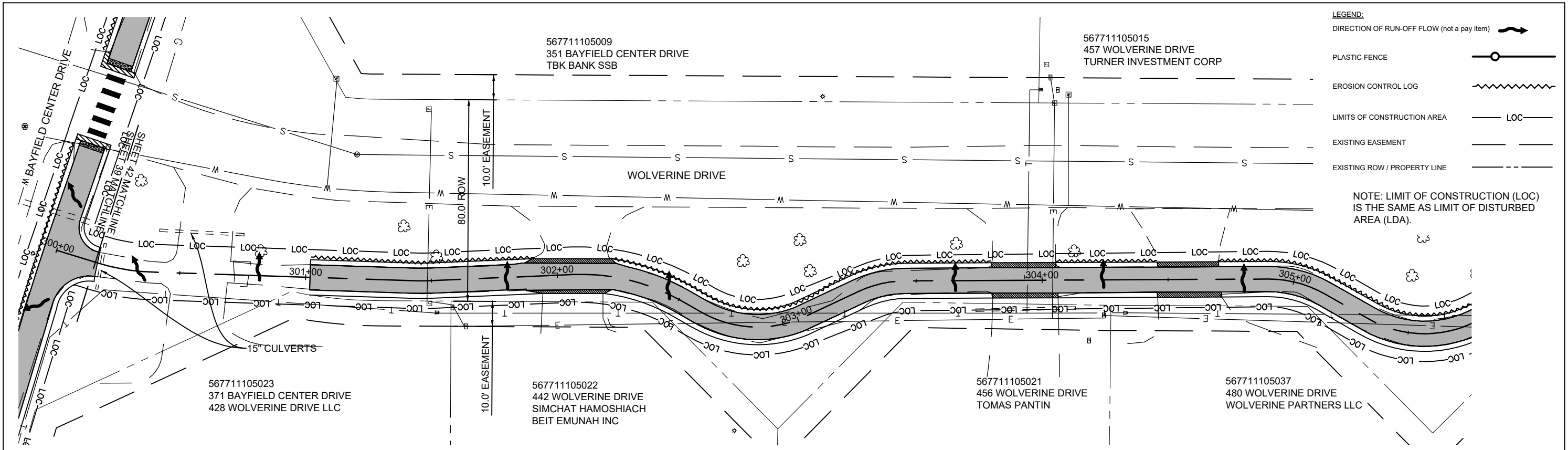


- LEGEND:**
- DIRECTION OF RUN-OFF FLOW (not a pay item)
 - PLASTIC FENCE
 - EROSION CONTROL LOG
 - LIMITS OF CONSTRUCTION AREA
 - EXISTING EASEMENT
 - EXISTING ROW / PROPERTY LINE

NOTE: LIMIT OF CONSTRUCTION (LOC) IS THE SAME AS LIMIT OF DISTURBED AREA (LDA).

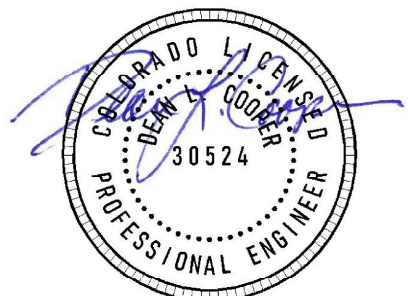
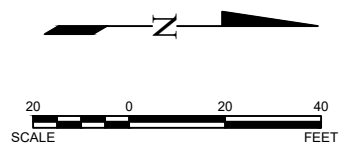
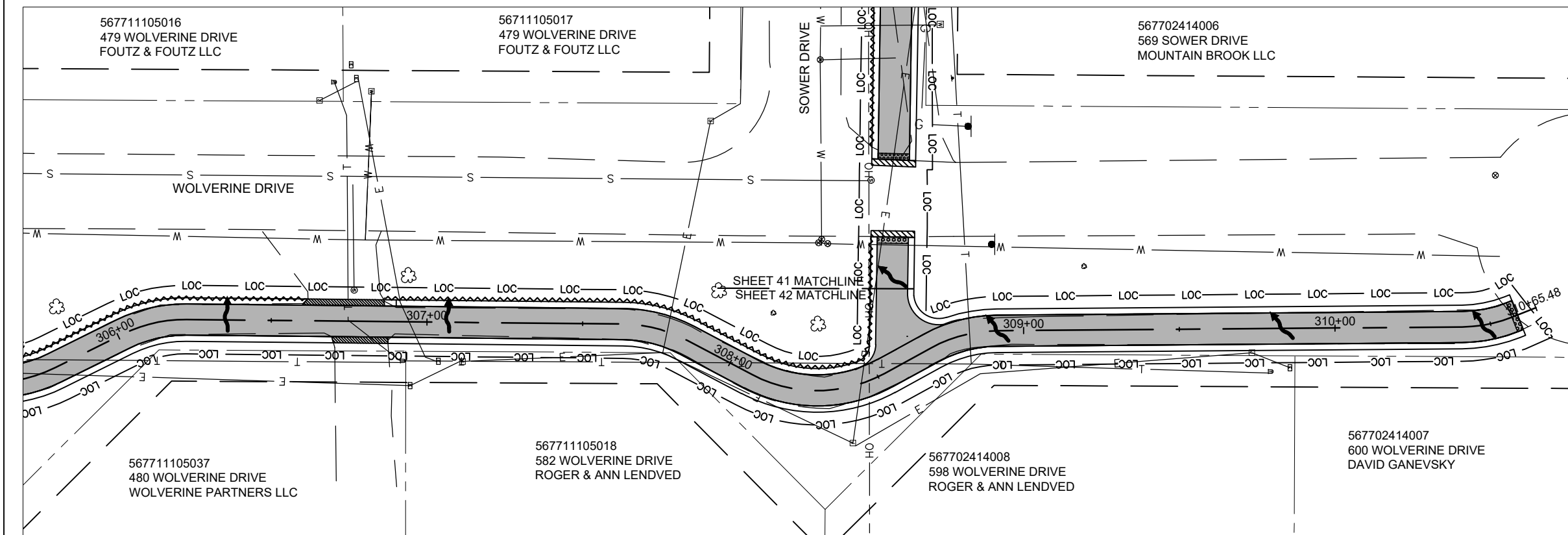


(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT		Project No./Code			
	Date:	Comments	Init.			No Revisions:	EROSION CONTROL - SOWER DR		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400		Sheet Number 28	
						Revised:			Drafted: JMS		Reviewed: DC	
						Void:						



- LEGEND:**
- DIRECTION OF RUN-OFF FLOW (not a pay item)
 - PLASTIC FENCE
 - EROSION CONTROL LOG
 - LIMITS OF CONSTRUCTION AREA
 - EXISTING EASEMENT
 - EXISTING ROW / PROPERTY LINE

NOTE: LIMIT OF CONSTRUCTION (LOC) IS THE SAME AS LIMIT OF DISTURBED AREA (LDA).



Sheet Revisions			
Date:	Comments	Init.	
(R-X)			

Colorado Department of Transportation
 Region 5 Office
 3803 North Main Avenue
 Durango, CO 81301
 Phone: 970-385-1453
 Region 5

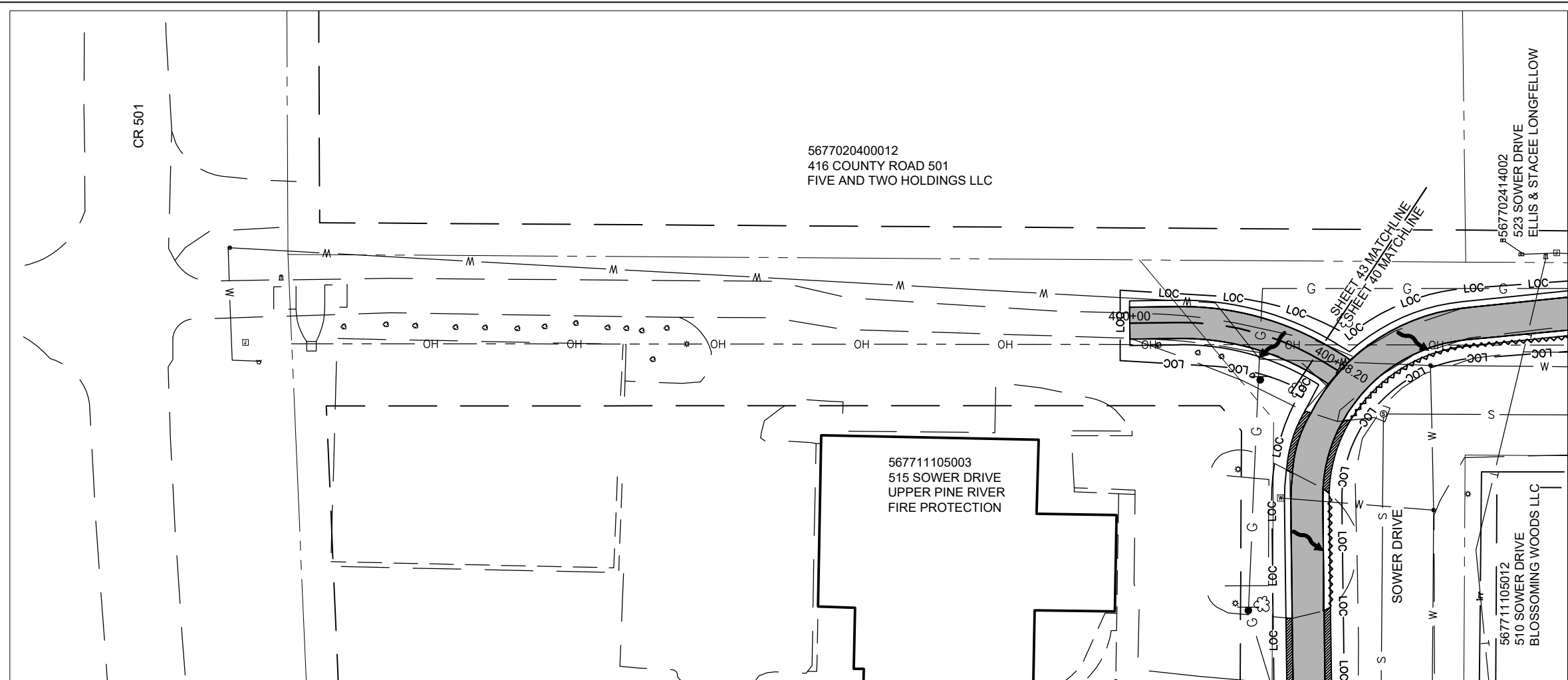
Town of Bayfield
 1199 Bayfield Parkway
 PO Box 80
 Bayfield, CO 81122
 Phone: 970-884-9544

KLJ Engineering, LLC
 1601 Riverfront Drive
 Grand Junction, CO 81501
 Phone: 970-450-7474

As Constructed
No Revisions:
Revised:
Void:

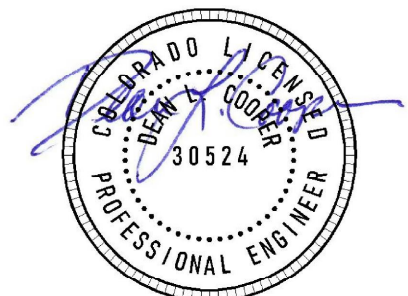
BAYFIELD SHARED USE PATH
 IMPROVEMENT PROJECT
 EROSION CONTROL - WOLVERINE DR
 Drafted: JMS Reviewed: DC

Project No./Code
 TAP M300-001, SUB 23709
 MTF M065-008, SUB 24004
 KLJ PROJ # 2104-01400
 Sheet Number **29**



- LEGEND:**
- DIRECTION OF RUN-OFF FLOW (not a pay item)
 - PLASTIC FENCE
 - EROSION CONTROL LOG
 - LIMITS OF CONSTRUCTION AREA
 - EXISTING EASEMENT
 - EXISTING ROW / PROPERTY LINE

NOTE: LIMIT OF CONSTRUCTION (LOC) IS THE SAME AS LIMIT OF DISTURBED AREA (LDA).



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT		Project No./Code				
	Date: Comments Init.								No Revisions:		EROSION CONTROL - CONNECTOR		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
	Revised:								Void:		Drafted: JMS Reviewed: DC		Sheet Number 30	

1. SITE DESCRIPTION

The Contractor shall comply with all CDOT contractual requirements, and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

A. PROJECT SITE LOCATION:

Location or address of construction office:

The proposed Bayfield Shared Use Path Improvement project is in Bayfield, CO, coordinates 37.235883°, -107.600100°, from County Road 501 east to Commerce Drive and from Sower Drive south to Bayfield Center Drive. Improvements are planned for the shared use path along Sower Drive, Bayfield Center Drive, and Wolverine Drive.

Location or address of construction office: TBD

B. PROJECT SITE DESCRIPTION:

The project will consist of resurfacing the existing shared use path in the affected area, including excavation, roadbase, concrete paving, and site restoration.

Construction activities will consist of:

- Removal of asphaltic concrete, landscape rock, vegetation, etc.
- Excavation
- Grading and placement/compaction of road base fills
- Concrete placement
- Landscaping (decorative rock resets)

After completion of work, the construction area will be returned to its pre-disturbance conditions.

C. PROPOSED SCHEDULE FOR SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES:

Stabilize all areas that are not paved or landscaped through establishment of vegetation cover.

A general sequence of events is given below. The actual sequencing will depend on the contractor's means and methods:

- N.O.I.
- Establishment of construction limits
- Installation of vehicle tracking control
- Relocation of utilities
- Clearing, grubbing, and demolition
- Grading
- Installation of the road corridor to consist of road base, concrete, and asphalt
- Finishing and restoration of the construction area
- N.O.T./permit closeout

D. ACRES OF DISTURBANCE:

1. Total area of construction site (LOC (PERMITTED AREA)): 2.86 acres
2. Total area of proposed disturbance (LDA): 2.86 acres
3. Total area of seeding: 0.00 acres
4. Total area of pre-project impervious surface: 44,271 sq. ft. (1.02 acres)
5. Total area of final impervious surface: 44,701 sq. ft. (1.03 acres)

E. EXISTING SOIL DATA:

The following soil types and hydrologic soil groups were listed for the project area on the NRCS Web Soil Survey (WSS). The K factor indicates the susceptibility of a soil to sheet and rill erosion by water. K values range from 0.02 to 0.69, and other factors being equal, the higher the K factor, the more susceptible the soil is to sheet and rill erosion by water.

- Corta loam, 1 to 8 percent slopes, Hydrologic Soil Group D, K factor = 0.37
- Ustic Torriorthents-Ustollic Haplargids complex, 12 to 60 percent slopes, Hydrologic Soil Group B, K factor = 0.10

Data Source(s): NRCS Web Soil Survey

F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:

During design, the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the permit.

This project will remove existing asphalt and replace with new concrete. Disturbance of existing vegetation will be minimal. There is very little native vegetation in LDA. The existing topography has slopes ranging from 0% to 10%. More than 90% of the proposed project area is existing asphalt with road base gravel and landscape rock along each edge of pathway. Each edge of the pathway has intermittent areas of non-native grass and weeds comprising less than 10% of the project, which will be replaced with roadbase gravel shoulder material as permanent stabilization.

Pre-Construction A pre-construction vegetation transect is not required because disturbances will be permanently stabilized with concrete sidewalk and adjoining shoulder material (aggregate base course). Existing pre-construction conditions will be photographically documented.

Post-Construction Date of survey: _____ Percent Vegetative Cover: _____

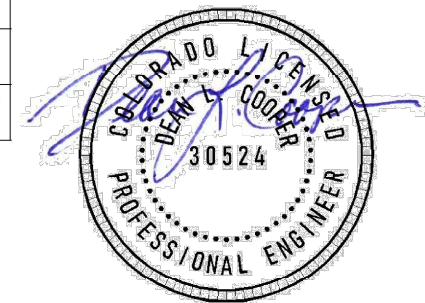
Description of vegetation:

The method used to determine pre-construction percent cover shall be used to determine post construction percent cover. Include map or table showing transect locations, photos documenting post-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

G. POTENTIAL POLLUTANTS SOURCES:

Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

Pollutant	Potential Sources	SWCMs for Pollutant
Soil/Earthwork Materials/Sediment	Erosion of exposed soil, dust, drainages, stockpiles, vehicle tracking, etc.	Sediment Control Log, Silt Fence, Earthen Dike, Surface Hardening, Rock Socks, Inlet & Outlet protection, Street Sweeping, etc.
Toxic Chemicals (paints, fertilizers, trash, fuels/lubricants, etc.)	Poor storage and handling of materials, spills, illegal dumping, pesticide application, etc.	Handling and storage per Manufacturer's recommendations, Spill Prevention, Control, and Counter Measures
Bacteria (Sanitary Waste)	Septic/sewer waste, pet & wildlife waste, etc.	Port-a-potties; Spill Prevention, Control, and Counter Measures
Nutrients (Fertilizers)	Fertilizers, decaying plant and animal waste, etc.	Handling, storage, and application of fertilizers per Manufacturer's recommendations; Spill Prevention, Control, and Counter Measures
Oxygen Demand	Sediment, nutrients, organics, and other pollutants (particulates and soluble)	See SWCMs for pollutants above
Fuels, Oils, and Greases	Equipment fueling & maintenance, illegal dumping, atmospheric deposition etc.	Spill Prevention, Control, and Counter Measures
Litter/Trash	Human Activities	Good Housekeeping
Metals	Paved areas, building materials, recyclable materials, atmospheric deposition, etc.	Material Handling and Storage per Manufacturer's recommendations, Spill Prevention, Control, and Counter Measures
Elevated Water Temperatures	Sunlight, impervious areas, shallow storage of water, etc.	Proper maintenance of SWCMs
Concrete Wash-out Wastewater	Washing out of concrete trucks and concrete tools	Installation & use of a concrete wash-out area



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT STORMWATER MANAGEMENT PLAN	Project No./Code	
	Date:	Comments	Init.				No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
	Revised:						Void:		Drafted: JMS Reviewed: DC	
							Sheet Number 31			

H. DRAINAGE PATTERNS AND RECEIVING WATER(S):

- Description of drainage patterns from the Site:
Stormwater is conveyed into the Los Pinos River via ditches. There is an irrigation tailwater ditch running north to south in the middle of the site that conveys stormwater offsite. The water appears to be consumed as an irrigation use on downstream properties and has no clearly defined return course to Los Pinos River.
- Names of immediate and ultimate receiving water(s) on site:
The Town of Bayfield ditch system discharges to the Los Pinos River several miles to the southwest.
- Description of all stream crossings located within the Construction Site Boundary:
An un-named irrigation tailwater ditch flows north to south and bisects the center of the project.

Location	Stream Name	Description Of Any Disturbed Upland Areas
Center of project, flows N to S	Irrigation tailwater ditch	None identified

I. ALLOWABLE NON-STORMWATER DISCHARGES:

No non-stormwater discharges are anticipated for this project, and none are allowed without proper approval and permitting.

Discharge Description	Site Map #	Method Statement (Location)
Uncontaminated Springs		
Concrete Washout Water (in-ground washout structure)#		
Landscape Irrigation Return Flows		
Discharges from Diversions of State Waters		
Emergency Fire Fighting		

#Concrete washout water associated with the washing of concrete tools and concrete mixer chutes can be discharged to the ground if site is managed accordingly to prevent the water from leaving the site as surface runoff or reaching receiving waters.

J. DIVERSION CRITERIA:

- Is a diversion planned for the Site? NO
- If yes, complete information below:
 - What is the 2-year peak flow for the waterway being diverted (cubic feet per second)?
 - What are the monthly averages if available? (provide averages for Jan- Dec if available)
 - What is the upstream contributing drainage area and imperviousness?
 - A method statement must be prepared by the Contractor and approved by CDOT for each diversion. Diversion structures must minimize soil transport and erosion within the entire diversion, minimize erosion during discharge, and minimize run-on into the diversion and meet the conditions in the SCP.
 - If the conditions in the SCP cannot be met and an alternative is required, CDOT must approve the alternative and then it must be submitted and approved by CDPHE's Water Quality Control Division prior to implementation.

K. ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:

[If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the 14-day schedule, then the SWMP must document the constraints necessitating the alternative schedule, provide the alternative schedule, and identify all the locations where the alternative schedule is applicable on the site map. Alternative temporary stabilization schedules must be approved by CDOT prior to implementation] NOT APPLICABLE

2. SITE MAP COMPONENTS:

Pre-construction

A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES:

Sheets 37-42

B. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF

DIRECTION:
Sheets 38-43

C. ALL AREAS OF GROUND SURFACE DISTURBANCE:

Sheets 38-43

D. AREAS OF CUT AND FILL:

Not applicable

E. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS:

Staging Area to be determined by the contractor

F. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP:

Sheets 38-43

G. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP:

Sheets 38-43

H. SPRINGS, STREAMS, WETLANDS, DIVERSIONS, AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER:

None.

I. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY:

None.

J. PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES:

None.

K. LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY:

None.

3. QUALIFIED STORMWATER MANAGERS:

A. SWMP ADMINISTRATOR FOR DESIGN:

CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information	Certification #
Evan Lavin, EIT II	970-450-7782; evan.lavin@kljeng.com	C9E05407

B. SWMP ADMINISTRATOR FOR CONSTRUCTION: (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of TECS Certification must be included in the SWMP.)

Name/Title	Contact Information (phone & email)	Certification #	Start Date	Engineer Approval
TBD by Contractor	TBD by Contractor	TBD	TBD	TBD

C. EROSION CONTROL INSPECTOR: (As defined in Section 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)



(R-X) ○ ○ ○	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
	Date:	Comments	Init.				No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
	Revised:						Revised:		STORMWATER MANAGEMENT PLAN	
	Void:						Drafted: JMS		Reviewed: DC	Sheet Number 32

Name/Title	Contact Information (phone & email)	TECS Certification #	Start Date	Engineer Approval
TBD by Contractor	TBD by Contractor	TBD	TBD	TBD

D. **PERMANENT STABILIZATION SUBJECT MATTER EXPERT:** This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-Construction Conference.
3. Coordinate the Site Pre-Vegetation Conference.
4. Review and recommend approval of products.
5. Review and recommend approval of the Quantities Verification Prerequisite.
6. Attend the Partial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information
TBD by Contractor	TBD by Contractor

4. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. **POTENTIAL POLLUTANT SOURCES:**

Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

B. **OFFSITE DRAINAGE (RUN ON WATER):**

Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.

C. **VEHICLE TRACKING CONTROL:**

Control measures shall be implemented in accordance with subsection 208.04.

D. **PERIMETER CONTROL:**

1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04
2. Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION: Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-G below as needed in accordance with subsection 208.03.

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

A. **MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN:** Prior to construction commencing the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.

B. **OTHER CDPS PERMITS:** List applicable CDPS permits associated with the permitted site and activities.

C. **STOCKPILE MANAGEMENT:** Shall be done in accordance with subsections 107.25 and 208.07.

D. **CONCRETE WASHOUT:** Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

E. **SAW CUTTING:** Shall be done in accordance with subsections 107.25, 208.04, 208.05

F. **STREET SWEEPING:** Shall be done in accordance with subsection 208.04.

6. INSPECTIONS

A. Water Quality Inspections shall be in accordance with subsection 208.03(c).

B. Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

7. CONTROL MEASURE MAINTENANCE

Maintenance shall be in accordance with subsection 208.04(f).

8. RECORD KEEPING

Records shall be kept in accordance with subsection 208.03(d).

9. INTERIM, PERMANENT STABILIZATION and LONG-TERM STORMWATER MANAGEMENT

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

A. **SEEDING PLAN:**

There are no areas proposed for reseeded.

B. **SEEDING APPLICATION METHOD:**

There are no areas proposed for reseeded.

C. **SOIL STABILIZATION METHODS:**

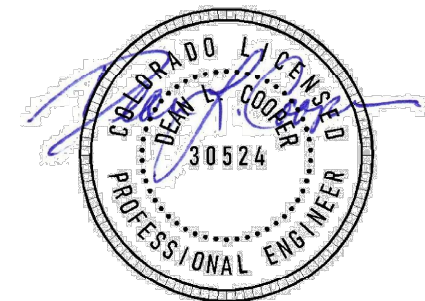
There are no areas proposed for soil stabilization

D. **SPECIAL REQUIREMENTS:**

None

E. **SOIL AMENDMENT REQUIREMENTS:**

There are no areas proposed for reseeded or sodding.



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed		BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT		Project No./Code		
	Date:	Comments	Init.				No Revisions:		STORMWATER MANAGEMENT PLAN		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400		
							Revised:		Drafted: JMS Reviewed: DC		Sheet Number		33
							Void:						

F. Permanent Stabilization Application Under Structures:

Under structures shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used:

No structures are involved in this project.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:

Prior to stormwater construction work partial acceptance.

1. All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.

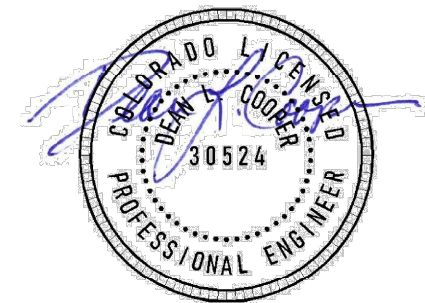
2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas, at no additional cost to the project.



H. LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES: Is Permanent Water

Quality Required. No, roadway redevelopment project, redesigning intersections to improve traffic flow, adding pedestrian facilities to increase safety

10. PRIOR TO PROJECT FINAL ACCEPTANCE

- A. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- B. At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.
- C. All storm drains shall be cleaned prior to the Final Acceptance of the project. If required, include work in 202-04002 Clean Culvert. **[**Check with Region Water Quality staff to see if CLEAN CULVERT PSP is needed and what Pay Item to use.**]**
- D. Refer to subsection 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT STORMWATER MANAGMENT PLAN	Project No./Code	
	Date:	Comments	Init.				No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
							Revised:		Sheet Number 34	
							Void:		Drafted: JMS	Reviewed: DC

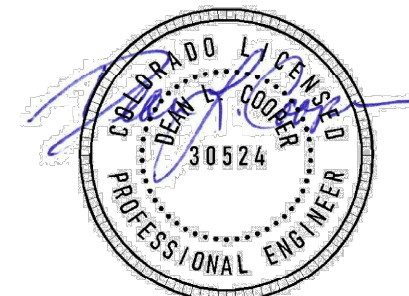
1. NARRATIVES


Control Measure Matrixes During Construction:

- Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
- The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
- A "B" in the Initial Activities Column indicates that the control measure shall be installed **before** construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

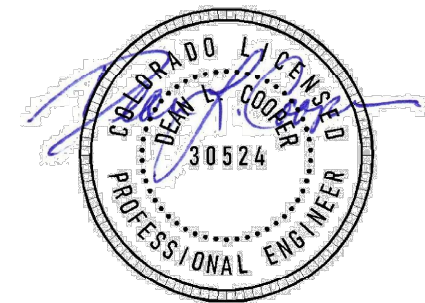
STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:



APPLICATION, CONTROL MEASURE	NARRATIVE	M-208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS <i>Fence (plastic) and erosion logs</i>	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.			B		
PROTECTION OF EXISTING TREES/LANDSCAPING <i>Fence (plastic)</i>	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of sensitive habitat, mature trees and/or existing landscaping prior to start of construction disturbances.					
CHECK DAM/DITCH CHECK <i>Erosion log, silt berm, silt dike, rock check dam</i>	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208				
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208				
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208				
CULVERT INLET/OUTLET PROTECTION <i>Erosion logs, aggregate bags</i>	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction disturbances.	M-208				
TYPE C, TYPE D AND TYPE 13 PROTECTION <i>Erosion logs, aggregate bags, erosion bales</i>	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to the start of construction disturbances.	M-208				
STOCKPILE PROTECTION <i>Temporary berm, erosion logs, aggregate bags*</i>	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208		X	X	
TOE OF FILL PROTECTION <i>Erosion logs, temporary berm, silt fence, topsoil windrow*</i>	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208				
PERIMETER CONTROL <i>Erosion logs, silt fence, temporary berm, topsoil windrow*</i>	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
SLOPE CONTROL <i>Silt fence, erosion logs</i>	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction disturbances.	M-208				
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to the start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
TEMPORARY SLOPE DRAIN OUTLET PROTECTION <i>Riprap, or approved other</i>	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12				
CONCRETE WASHOUT <i>In-ground or fabricated</i>	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to the start of concrete activities.	M-208			X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to the start of construction disturbances.	M-208				
Engineered SEDIMENT BASIN	Constructed early in the project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control					



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT		Project No./Code			
	Date: Comments Init.					No Revisions:	STORMWATER MANAGMENT PLAN		TAP M300-001, SUB 23709		MTF M065-008, SUB 24004	
						Revised:			KLJ PROJ # 2104-01400			
						Void:	Drafted: JMS	Reviewed: DC	Sheet Number		35	

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON- STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
Engineered SEDIMENT BASIN	using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible					
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.					
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.					
CLEAN WATER DIVERSION	Placed to divert clean surface or groundwater around the disturbance area to prevent it from mixing with construction runoff.					
OTHER						

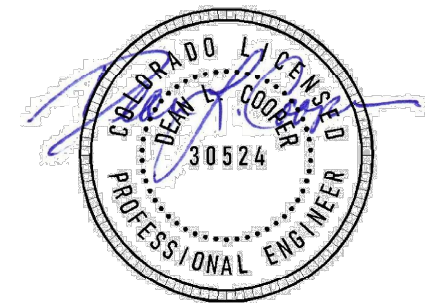


(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
	Date:	Comments	Init.				No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
							Revised:	STORMWATER MANAGMENT PLAN		
							Void:	Drafted: JMS	Reviewed: DC	Sheet Number 36

NON-STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to: Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

* **Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity – CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a “finishing” component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: <https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf>

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
* VEGETATIVE BUFFER STRIP	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.					
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting.	M-208				
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.	M-208				
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.					
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.					
BONDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.					
Straw or Hay MULCH/MULCH TACKIFIER	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer					
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer					
SEEDING PERMANENT (NATIVE PERENNIAL)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216				
TURF REINFORCEMENT MAT (TRM)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	M-216				
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	
OTHER						



<input checked="" type="checkbox"/> (R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
	No Revisions:	TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400								
	Revised:	STORMWATER MANAGEMENT PLAN					Sheet Number 37			
	Void:	Drafted: JMS	Reviewed: DC							

14. NOTES

12. TABULATION OF STORMWATER QUANTITIES

A. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.

Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
208-00002	Erosion Log Type 1 (12 inch)	LF	3666			3666
208-00075	Pre-fab Vehicle Tracking Pad	EA	1			1
208-00146	Pre-fab Concrete Wash out	EA		1		1
208-00106	Sweeping (Sediment Removal)	Hour		80		80
208-00207	Erosion Control Management (ECM)	Days		22		22
607-11525	Fence (Plastic)	LF	150			150
700-70380	F/A Erosion Control	FA				1
212-01200	Landscape Restoration	LS				1

*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated and have been increased for unforeseen conditions and normal control measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

**Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.

*** F/A refers to CDOT's Force Account Pay Items.

13. BIOLOGICAL IMPACTS and DEWATERING

A. ENVIRONMENTAL IMPACTS:

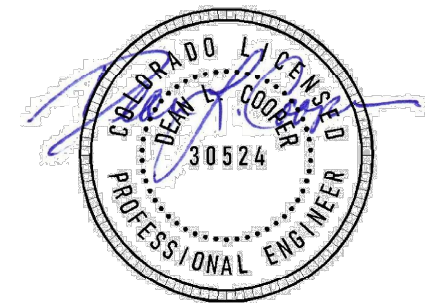
1. Wetland Impacts: None
2. Stream Impacts: None
3. Threatened and Endangered Species: None



B. DEWATERING:

(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):

<https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>

1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.



(R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453 Region 5	 Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544	 KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT		Project No./Code				
	Date: Comments Init.								No Revisions:		STORMWATER MANAGEMENT PLAN		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
									Revised:				Sheet Number 38	
									Void:		Drafted: JMS Reviewed: DC			

www.invarion.com

Bike path Work
various locations
2-way stop
for milling

Not
To Scale



Alert Traffic Control, Inc
543 Sower Dr.
Bayfield, Co 81122
Patricia Holder: Project manager
ATSSA cert.# 464819 exp1/23/24
Office: 970-884-0578
Fax: 970-884-0590
p.holder@alert-traffic.com
Date Prepared: 4/7/23

Patricia Holder

City Reviewed and Accepted:

X _____

Contractor Signature:

X _____

Google

Imagery and map data ©2023, Google

<p>(R-X)</p> <p>○</p> <p>○</p> <p>○</p>	Sheet Revisions			<p>Colorado Department of Transportation</p> <p>Region 5 Office 3803 North Main Avenue Durango, CO 81301 Phone: 970-385-1453</p> <p>Region 5</p>	<p>Town of Bayfield 1199 Bayfield Parkway PO Box 80 Bayfield, CO 81122 Phone: 970-884-9544</p>	<p>KLJ Engineering, LLC 1601 Riverfront Drive Grand Junction, CO 81501 Phone: 970-450-7474</p>	As Constructed	BAYFIELD SHARED USE PATH IMPROVEMENT PROJECT	Project No./Code	
	Date:	Comments	Init.				No Revisions:		TAP M300-001, SUB 23709 MTF M065-008, SUB 24004 KLJ PROJ # 2104-01400	
							Revised:	TRAFFIC CONTROL EXAMPLE		
							Void:	Drafted: JMS	Reviewed: DC	Sheet Number