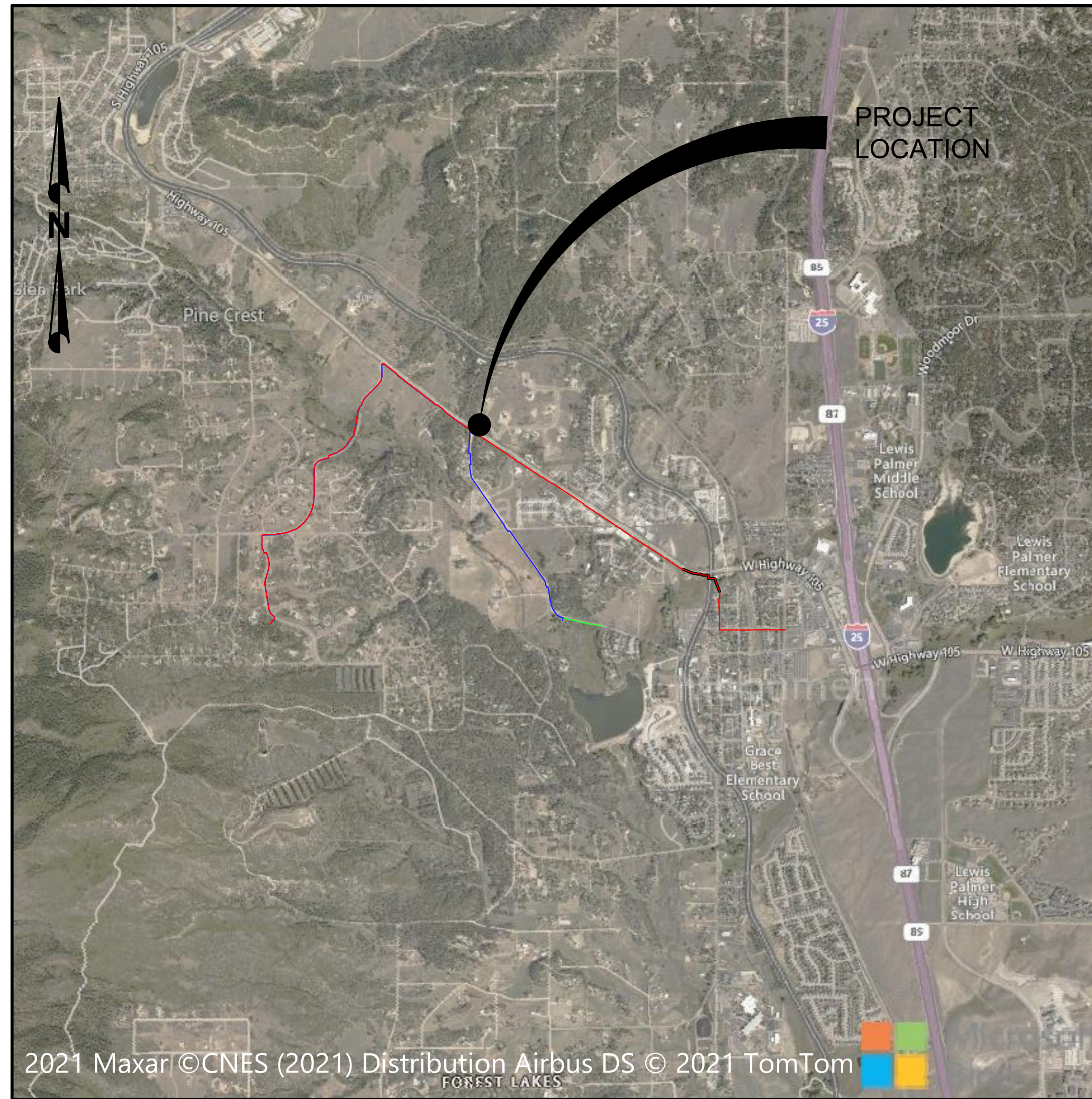


TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS  
 LOT 6, FOREST VIEW ESTATES FILING NO. 4

# MONUMENT WATERLINE

## GRADING AND EROSION CONTROL PLANS MONUMENT, CO



**PROJECT LOCATION MAP**  
 N.T.S.



**VICINITY MAP**  
 N.T.S.

SHEET INDEX	
NO.	TITLE
1	COVER SHEET
2	LEGEND, NOTES & ABBREVIATIONS
3	PIPELINE ALIGNMENTS KEY MAP
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5	PIPELINE ALIGNMENTS STA 12+00 TO STA 24+00
6	PIPELINE ALIGNMENTS STA 24+00 TO STA 36+00
7	PIPELINE ALIGNMENTS STA 36+00 TO STA 48+00
8	PIPELINE ALIGNMENTS STA 48+00 TO STA 60+00
9	PIPELINE ALIGNMENTS STA 60+00 TO STA 72+00
10	PIPELINE ALIGNMENTS STA 72+00 TO STA 84+00
11	PIPELINE ALIGNMENTS STA 84+00 TO STA 96+00
12	PIPELINE ALIGNMENTS STA 96+00 TO STA 108+00
13	PIPELINE ALIGNMENTS STA 108+00 TO STA 120+00
14	PIPELINE ALIGNMENTS STA 120+00 TO STA 132+00
15	PIPELINE ALIGNMENTS STA 132+00 TO STA 144+00
16	PIPELINE ALIGNMENTS STA 144+00 TO STA 156+00
17	PIPELINE ALIGNMENTS STA 156+00 TO STA 167+68
18	PIPELINE ALIGNMENTS STA 200+00 TO STA 212+00
19	PIPELINE ALIGNMENTS STA 212+00 TO STA 224+00
20	PIPELINE ALIGNMENTS STA 224+00 TO STA 236+00
21	PIPELINE ALIGNMENTS STA 236+00 TO STA 244+00
22	PIPELINE ALIGNMENTS STA 300+00 TO STA 308+14
23	GRADING AND EROSION CONTROL DETAILS - 1
24	GRADING AND EROSION CONTROL DETAILS - 2
25	GRADING AND EROSION CONTROL DETAILS - 3

FA PROJECT NO. 04-20-0153  
 PCD FILE NO. PPR-21-030  
 FEBRUARY, 2022

**ENGINEER'S STATEMENT:**

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

*James Adams*  
 JAMES ADAMS, PE #38375

4/8/22  
 DATE

**OWNER'S STATEMENT:**

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

*Thomas A. Shook*  
 TOWN OF MONUMENT

5-1-22  
 DATE

**EL PASO COUNTY:**

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION IS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

APPROVED  
 Engineering Department  
 07/28/2022 3:12:15 PM  
*Ednikam*  
 EPC Planning & Community Development Department  
 COUNTY ENGINEER / ECM ADMINISTRATOR

DATE

**GENERAL CONSTRUCTION NOTES:**

- INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
- ANY UNPAVED AREA THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESEEDDED.

**FORSGREN**  
 Associates Inc.  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



PRELIMINARY  
 DRAWING  
 NOT FOR  
 CONSTRUCTION

# LEGEND

# CIVIL ABBREVIATIONS

## ANNOTATION

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	—○—
CHAIN LINK FENCE	—X—
BARBED WIRE FENCE	—X—
CONTOUR LINE	4250 EL=4354.66
SPOT ELEVATION	4250 EL=4354.66
BANK SLOPES	---
CANAL	---
OPEN DITCH	---
UNDERGROUND ELECTRIC	—UE—
OVERHEAD ELECTRIC	—E—
ELECTRIC BOX	⊕
ELECTRIC MANHOLE	⊕
ELECTRIC METER	⊕
GAS LINE	—NG—
GAS VALVE	⊕
GAS METER	⊕
IRRIGATION LINE	—IRR—
SANITARY SEWER LINE	—SS—
SANITARY SEWER CLEANOUT	⊕
SANITARY SEWER MANHOLE	⊕
SECONDARY WATER LINE	—SW—
SECONDARY WATER VALVE	⊕
SECONDARY WATER VAULT	⊕
STORM DRAIN LINE	—SD—
STORM DRAIN CATCH BASIN	⊕
STORM DRAIN INLET(S)	⊕
STORM DRAIN COMBO BOX	⊕
STORM DRAIN MANHOLE	⊕
STORM DRAIN CLEANOUT BOX	⊕
STORM DRAIN VAULT	⊕
CULVERT	—SD—
TELEPHONE CABLE	—COMM—
TELEPHONE BOX	⊕
TELEPHONE MANHOLE	⊕
TELEPHONE POST	⊕
WATER LINE	—PW—
FIRE HYDRANT	⊕
FIRE RISER	⊕
WATER VALVE	⊕
WATER AIR RELEASE VALVE	⊕
WATER METER	⊕
UTILITY POLE & ANCHOR	⊕ OHE →
POWER POLE	⊕
STREET LIGHT	⊕
LIGHT	⊕
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	12 11 4 3
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	△ CP800

REVISION TRIANGLE	← REVISION NO. 1
DETAIL CALLOUT	1 C-001 ← DETAIL # ← SHEET NO.
KEYNOTE CALLOUT	1 ← KEYNOTE REFERENCE
PIPE CALLOUT	SS 18" PVC ← SYSTEM ← MATERIAL ← SIZE
SECTION CALLOUT	A G-001 ← DESIGNATION ← SHEET NO.
DETAIL NAME	4' MANHOLE SCALE: 1/2"=1'-0" 11 22 33 ← DETAIL #
SECTION NAME	TYPICAL ROAD SCALE: 1"=1" A ← SECTION DESCRIPTION ← DESIGNATION
VIEW NAME	PLAN VIEW ← VIEW DESCRIPTION SCALE: 1"=1"
GENERAL CALLOUT	← GENERAL NOTE
PROPOSED CALLOUT	← CONSTRUCTION NOTE

## STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR AND SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO STORMWATER. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES IS NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN PRIOR TO IMPLEMENTATION.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE STABILIZED.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLAN DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE HYDROLOGY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE, UNLESS INFEASIBLE.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUT SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY.
- DEWATERING OPERATIONS: UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT MAY NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF.
- EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF PETROLEUM PRODUCTS OR OTHER LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCH FLOW LINE.
- INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY \_\_\_\_\_ AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART.

PCD FILE NO. PPR-21-030

NO.	REVISIONS	BY	DATE

DRAWN	S. CALE
DESIGNED	DESIGNED BY
APPROVED	APPROVED BY
QA	QA BY

**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)

**PRELIMINARY  
DRAWING  
NOT FOR  
CONSTRUCTION**



**FORSYGREN**  
*Associates Inc.*  
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644



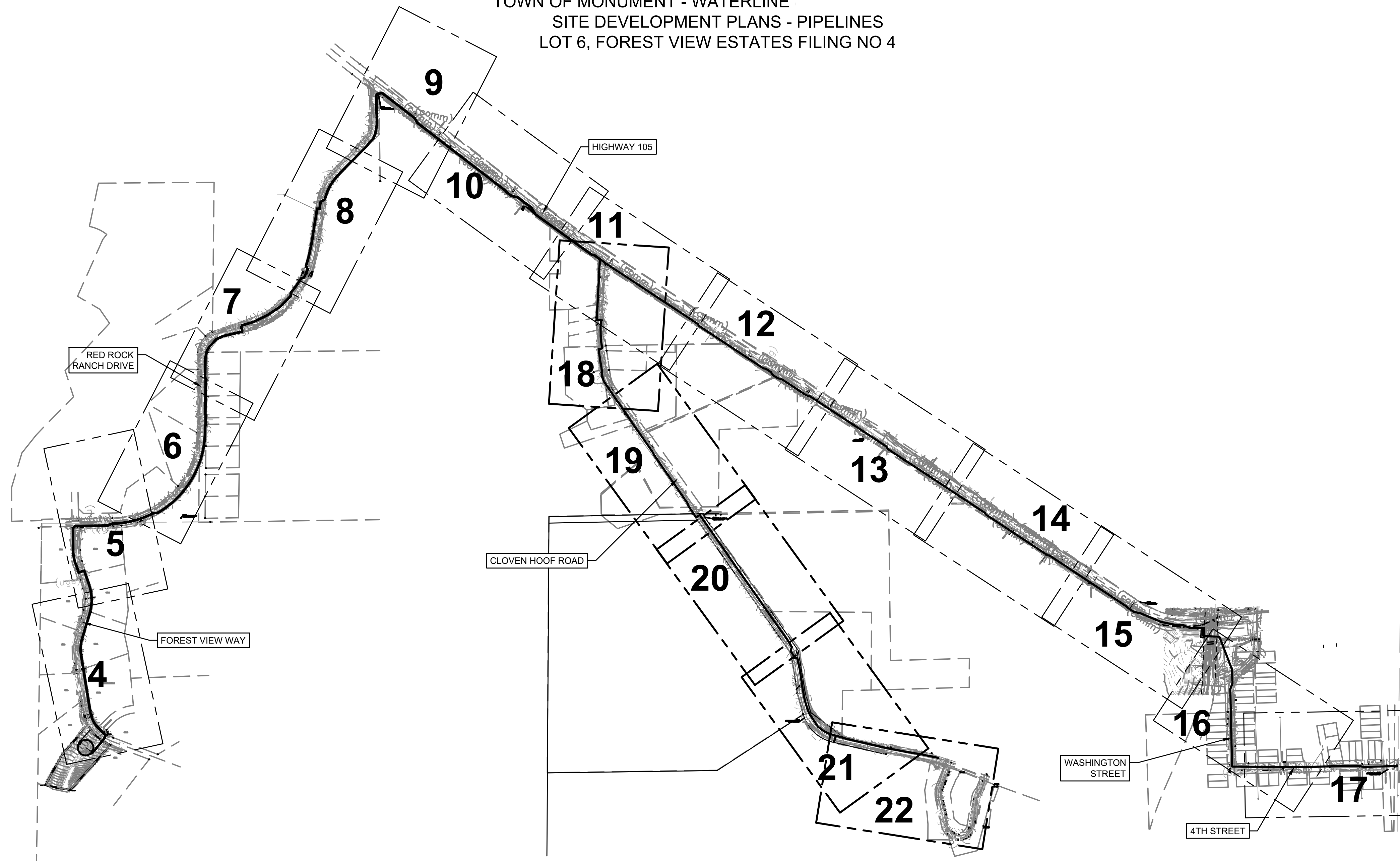
MONUMENT WATERLINE

**GRADING AND EROSION CONTROL PLANS  
LEGEND, NOTES AND ABBREVIATIONS**

PROJECT NO:	<b>04-20-0153</b>
SHEET NO:	<b>2</b>
DATE:	FEB, 2022
PAGE NO:	2 OF 25

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\General\County Submittals\GEC\PIPELINE-G-02 - LEGEND NOTES AND ABBREV.dwg - 2/21/2022 3:39 PM

TOWN OF MONUMENT - WATERLINE  
SITE DEVELOPMENT PLANS - PIPELINES  
LOT 6, FOREST VIEW ESTATES FILING NO 4



LEGEND

- (VTC) VEHICLE TRACKING CONTROL
  - (SF) SILT FENCE
  - (ECB) EROSION CONTROL BLANKET
  - (CD) ROCK CHECK DAM
  - (LOD) LIMIT OF DISTURBANCE
  - (CWA) CONCRETE WASH AREA
  - (SSA) STABILIZED STAGING AREA
  - (TOP) TEMPORARY OUTLET PROTECTION
- FLOW DIRECTION

ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

NAME  
DATE

OWNER'S STATEMENT:

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

NAME  
DATE

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

JENNIFER IRVINE, P.E.  
DATE  
COUNTY ENGINEER / ECM ADMINISTRATOR

GENERAL CONSTRUCTION NOTES:

- INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
- ANY UNPAVED AREA THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESEDED.

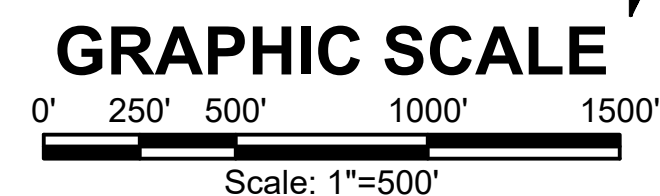
SURVEY CONTROL DATA

POINT NO.	NORTHING	EASTING	ELEVATION	POINT DESCRIPTION
150	1465758.075	3172710.430	7069.86 (NAVD 88)	3.25" ALUMINUM CAP "CDOT MP 7.4 #542"
151	1462473.388	3171175.657	7133.00 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
152	1462480.295	3175247.677	6947.57 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
153	1460915.673	3176013.847	6936.42 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
154	1460518.879	3180552.386	7018.01 (NAVD 88)	#4 REBAR WITH RED PLASTIC CAP "CONTROL POINT"
115	1463118.253	3176474.552	6999.48 (NAVD 88)	3.25" ALUMINUM CAP "CDOT R.O.W."
110	1461819.218	3178628.362	6977.98 (NAVD 88)	3.25" ALUMINUM CAP "CDOT R.O.W."

COORDINATE SYSTEM: NAD83 (2011)  
STATE PLANE ZONE: COLORADO CENTRAL ZONE 0502  
UNITS: US SURVEY FEET  
GEOID MODEL: GEOID18

PROJECT COORDINATES SHOWN HEREON ARE MODIFIED STATE PLANE GROUND COORDINATES  
GRID TO GROUND COMBINED SCALE FACTOR: 1.0004129397  
GROUND TO GRID COMBINED SCALE FACTOR: 0.9995872307

FALSE NORTHING: 0.0  
FALSE EASTING: 0.0



P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\GEOPIPELINE\GEC - OVERALL PLAN VIEWS.dwg - 11/24/2021 2:06 PM

NO.	REVISIONS	BY	DATE

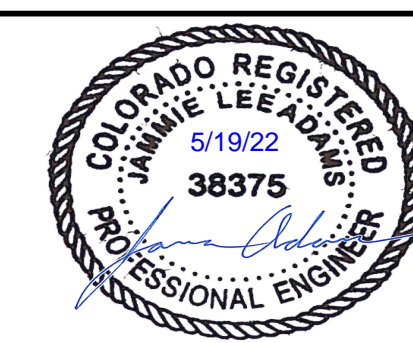
DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)

**PRELIMINARY  
DRAWING  
NOT FOR  
CONSTRUCTION**



**FORSGREN**  
*Associates Inc.*  
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644

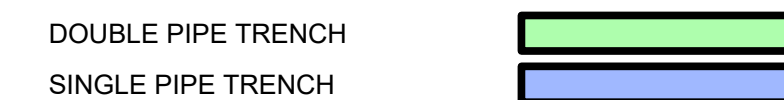


**TOWN OF MONUMENT WATERLINE  
GRADING AND EROSION CONTROL PLAN  
PIPELINE ALIGNMENTS KEY MAP**

PROJECT NO:	<b>04-20-0153</b>
SHEET NO:	<b>3</b>
DATE:	NOV, 2021
PAGE NO:	3 OF 24

TOWN OF MONUMENT - WATERLINE  
SITE DEVELOPMENT PLANS - PIPELINES  
LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	X---
CONTOUR LINE	---4250---
UNDERGROUND ELECTRIC	---(uge)---
OVERHEAD ELECTRIC	---(ohe)---
ELECTRIC BOX	(E)
ELECTRIC MANHOLE	(E)
ELECTRIC METER	(E)
GAS LINE	---(g)---
GAS VALVE	(g)
GAS METER	(g)
IRRIGATION LINE	---IRR---
SANITARY SEWER LINE	---SS---
SANITARY SEWER CLEANOUT	(S)
SANITARY SEWER MANHOLE	(S)
SECONDARY WATER LINE	---SW---
SECONDARY WATER VALVE	(SW)
SECONDARY WATER VAULT	(SW)
STORM DRAIN LINE	---SD---
STORM DRAIN CATCH BASIN	(SD)
STORM DRAIN INLET(S)	(SD)
STORM DRAIN COMBO BOX	(SD)
STORM DRAIN MANHOLE	(D)
STORM DRAIN CLEANOUT BOX	(D)
STORM DRAIN VAULT	(SD)
CULVERT	SD
TELEPHONE CABLE	---COMM---
TELEPHONE BOX	(T)
TELEPHONE MANHOLE	(T)
TELEPHONE POST	(T)
WATER LINE	---PW---
FIRE HYDRANT	(FH)
FIRE RISER	(FR)
WATER VALVE	(WV)
WATER AIR RELEASE VALVE	(WARV)
WATER METER	(WM)
UTILITY POLE & ANCHOR	---OHE---
POWER POLE	(PP)
STREET LIGHT	(SL)
LIGHT	(L)
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	12 11 4 3
MONUMENT	(M)
BENCH MARK	(BM)
SURVEY CONTROL POINT	△ CP800

LEGEND

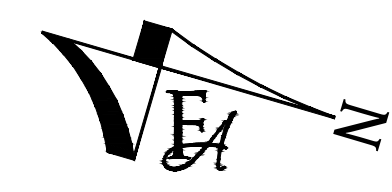
(VTC)	VEHICLE TRACKING CONTROL	(Pattern)	INITIAL
(SF)	SILT FENCE	(Line)	INITIAL
(ECB)	EROSION CONTROL BLANKET	(Pattern)	FINAL
(CD)	ROCK CHECK DAM	(Pattern)	INTERIM
(LOC)	LIMIT OF CONSTRUCTION	(Line)	FINAL
(CWA)	CONCRETE WASH AREA	(Shape)	INTERIM
(SSA)	STABILIZED STAGING AREA	(Pattern)	INTERIM
(TOP)	TEMPORARY OUTLET PROTECTION	(Shape)	INTERIM
(Flow Arrow)	FLOW DIRECTION	(Arrow)	
(ST)	SEDIMENT TRAP	(Shape)	INTERIM

PHASE

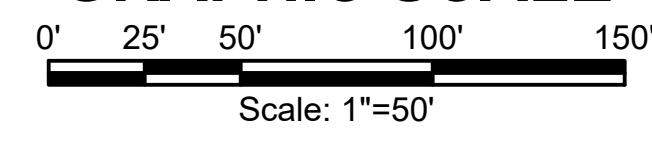
GENERAL CONSTRUCTION NOTES:

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- ANY UNPAVED AREA THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESEEDED AND MULCHED.

NOTE: NO PIPELINE CONSTRUCTION IS PERMITTED IN THE ROW UNTIL THE FINAL PIPELINE CONSTRUCTION PLANS HAVE BEEN APPROVED.



GRAPHIC SCALE



PCD FILE NO. PPR-21-030

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\GEOPIPELINE\GEC - OVERALL PLAN VIEWS.dwg - 22/1/2022 2:17 PM

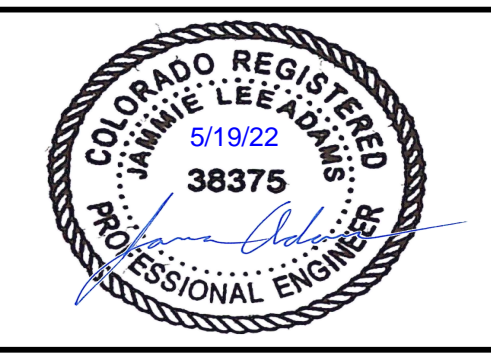
NO.	REVISIONS	BY	DATE

**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)

PRELIMINARY  
DRAWING  
NOT FOR  
CONSTRUCTION



**FORSGREN**  
*Associates Inc.*  
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE**  
**GRADING AND EROSION CONTROL**  
**PIPELINE ALIGNMENTS**  
STA 0+00 TO STA 12+00

PROJECT NO:	04-20-0153
SHEET NO:	4
DATE:	NOV, 2021
PAGE NO:	4 OF 25

TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	—
CONTROL LINE	—
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	—
WIRE FENCE	—
CHAIN LINK FENCE	—
BARBED WIRE FENCE	— X —
CONTOUR LINE	--- 4250 ---
UNDERGROUND ELECTRIC	--- (uge) ---
OVERHEAD ELECTRIC	--- (ohe) ---
ELECTRIC BOX	(E)
ELECTRIC MANHOLE	(E)
ELECTRIC METER	(E)
GAS LINE	--- (g) ---
GAS VALVE	(G)
GAS METER	(G)
IRRIGATION LINE	--- IRR ---
SANITARY SEWER LINE	--- SS ---
SANITARY SEWER CLEANOUT	(S)
SANITARY SEWER MANHOLE	(S)
SECONDARY WATER LINE	--- SW ---
SECONDARY WATER VALVE	(W)
SECONDARY WATER VAULT	(W)
STORM DRAIN LINE	--- SD ---
STORM DRAIN CATCH BASIN	(SD)
STORM DRAIN INLET(S)	(SD)
STORM DRAIN COMBO BOX	(SD)
STORM DRAIN MANHOLE	(D)
STORM DRAIN CLEANOUT BOX	(D)
STORM DRAIN VAULT	(D)
CULVERT	(SD)
TELEPHONE CABLE	--- COMM ---
TELEPHONE BOX	(T)
TELEPHONE MANHOLE	(T)
TELEPHONE POST	(T)
WATER LINE	--- PW ---
FIRE HYDRANT	(F)
FIRE RISER	(F)
WATER VALVE	(W)
WATER AIR RELEASE VALVE	(W)
WATER METER	(W)
UTILITY POLE & ANCHOR	(OHE)
POWER POLE	(P)
STREET LIGHT	(L)
LIGHT	(L)
ASPHALT PAVING	(A)
CURB & GUTTER	(C)
SIDEWALK	(S)
RAILROAD TRACKS	(R)
GUARD RAIL	(G)
SIGN	(S)
STRUCTURE	(S)
LANDSCAPING (TREES ETC.)	(L)
SECTION CORNER	(12 11)
MONUMENT	(M)
BENCH MARK	(B)
SURVEY CONTROL POINT	(CP800)



LEGEND

(VTC)	VEHICLE TRACKING CONTROL
(SF)	SILT FENCE
(ECB)	EROSION CONTROL BLANKET
(CD)	ROCK CHECK DAM
(LOC)	LIMIT OF CONSTRUCTION
(CWA)	CONCRETE WASH AREA
(SSA)	STABILIZED STAGING AREA
(TOP)	TEMPORARY OUTLET PROTECTION
(ST)	SEDIMENT TRAP
→	FLOW DIRECTION

PHASE

(Pattern)	INITIAL
(Pattern)	INITIAL
(Pattern)	FINAL
(Pattern)	INTERIM
(Pattern)	FINAL
(Pattern)	INTERIM
(Pattern)	INTERIM
(Pattern)	INTERIM
(Pattern)	INTERIM
(Pattern)	INTERIM
(Pattern)	INTERIM

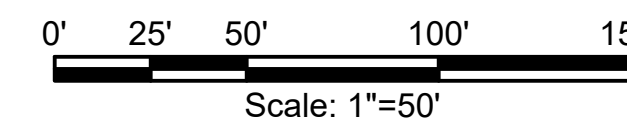
GENERAL CONSTRUCTION NOTES:

1. INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
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GRAPHIC SCALE



PCD FILE NO. PPR-21-030

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\GEOPIPELINE\GEC - OVERALL PLAN VIEWS.dwg - 2/21/2022 2:18 PM

NO.	REVISIONS	BY	DATE

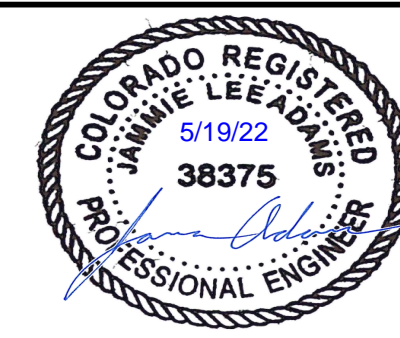
DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

**PRELIMINARY  
 DRAWING  
 NOT FOR  
 CONSTRUCTION**



**FORSYGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 12+00 TO STA 24+00

PROJECT NO:	04-20-0153
SHEET NO:	5
DATE:	NOV, 2021
PAGE NO:	5 OF 25

TOWN OF MONUMENT - WATERLINE  
SITE DEVELOPMENT PLANS - PIPELINES  
LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	ⓔ
ELECTRIC MANHOLE	ⓔ
ELECTRIC METER	ⓔ
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	IRR
SANITARY SEWER LINE	SS
SANITARY SEWER CLEANOUT	Ⓢ
SANITARY SEWER MANHOLE	Ⓢ
SECONDARY WATER LINE	SW
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	SD
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	SD
TELEPHONE CABLE	COMM
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	PW
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	OHE
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	12 11 4 3
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	CP800



PROPOSED PIPELINE ALIGNMENT  
(2) 12-INCH C900 PVC PIPES

LEGEND

VTC	VEHICLE TRACKING CONTROL
SF	SILT FENCE
ECB	EROSION CONTROL BLANKET
CD	ROCK CHECK DAM
LOC	LIMIT OF CONSTRUCTION
CWA	CONCRETE WASH AREA
SSA	STABILIZED STAGING AREA
TOP	TEMPORARY OUTLET PROTECTION
FLOW DIRECTION	---
ST	SEDIMENT TRAP

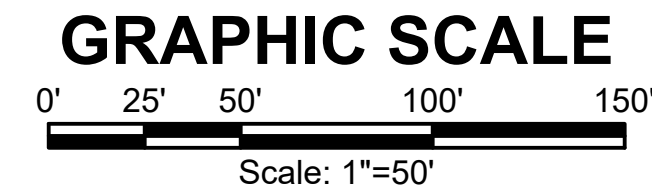
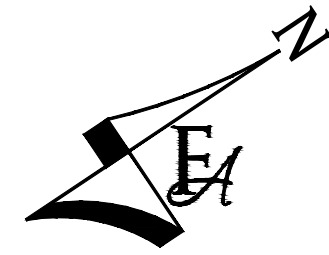
PHASE

---	INITIAL
---	INITIAL
---	FINAL
---	INTERIM
---	FINAL
---	INTERIM
---	INTERIM
---	INTERIM
---	INTERIM
---	INTERIM

GENERAL CONSTRUCTION NOTES:

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PCD FILE NO. PPR-21-030

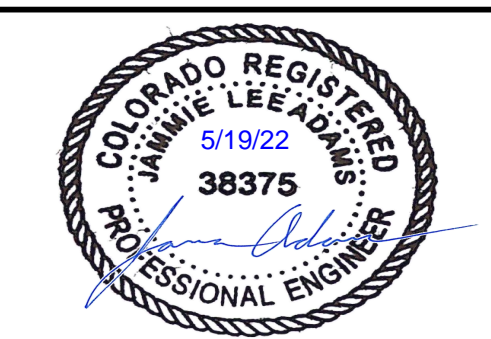
NO.	REVISIONS	BY	DATE

**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2"-SCALE ACCORDINGLY)

**PRELIMINARY  
DRAWING  
NOT FOR  
CONSTRUCTION**



**FORSGREN**  
*Associates Inc.*  
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
GRADING AND EROSION CONTROL PLAN  
PIPELINE ALIGNMENTS**  
STA 24+00 TO STA 36+00

PROJECT NO:	04-20-0153
SHEET NO:	6
DATE:	NOV, 2021
PAGE NO:	6 OF 25

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TOWN OF MONUMENT - WATERLINE  
SITE DEVELOPMENT PLANS - PIPELINES  
LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	---
ELECTRIC MANHOLE	---
ELECTRIC METER	---
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	---
SANITARY SEWER LINE	---
SANITARY SEWER CLEANOUT	---
SANITARY SEWER MANHOLE	---
SECONDARY WATER LINE	---
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	---
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	---
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	---
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



LEGEND

VTC	VEHICLE TRACKING CONTROL
SF	SILT FENCE
ECB	EROSION CONTROL BLANKET
CD	ROCK CHECK DAM
LOC	LIMIT OF CONSTRUCTION
CWA	CONCRETE WASH AREA
SSA	STABILIZED STAGING AREA
TOP	TEMPORARY OUTLET PROTECTION
ST	SEDIMENT TRAP

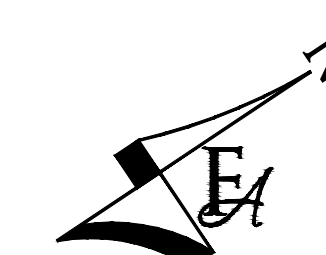
PHASE

INITIAL	INITIAL
FINAL	FINAL
INTERIM	INTERIM
FINAL	FINAL
INTERIM	INTERIM
INTERIM	INTERIM
INTERIM	INTERIM
INTERIM	INTERIM
INTERIM	INTERIM
INTERIM	INTERIM

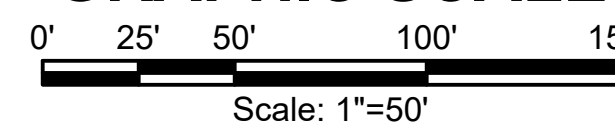
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GRAPHIC SCALE



PCD FILE NO. PPR-21-030

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NO.	REVISIONS	BY	DATE

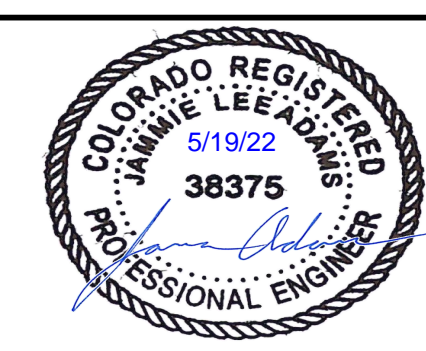
ATTENTION  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)

PRELIMINARY  
DRAWING  
NOT FOR  
CONSTRUCTION



**FORSGREN**  
*Associates Inc.*

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE**  
**GRADING AND EROSION CONTROL PLAN**  
**PIPELINE ALIGNMENTS**

STA 36+00 TO STA 48+00

PROJECT NO:	04-20-0153
SHEET NO:	7
DATE:	NOV, 2021
PAGE NO:	7 OF 25

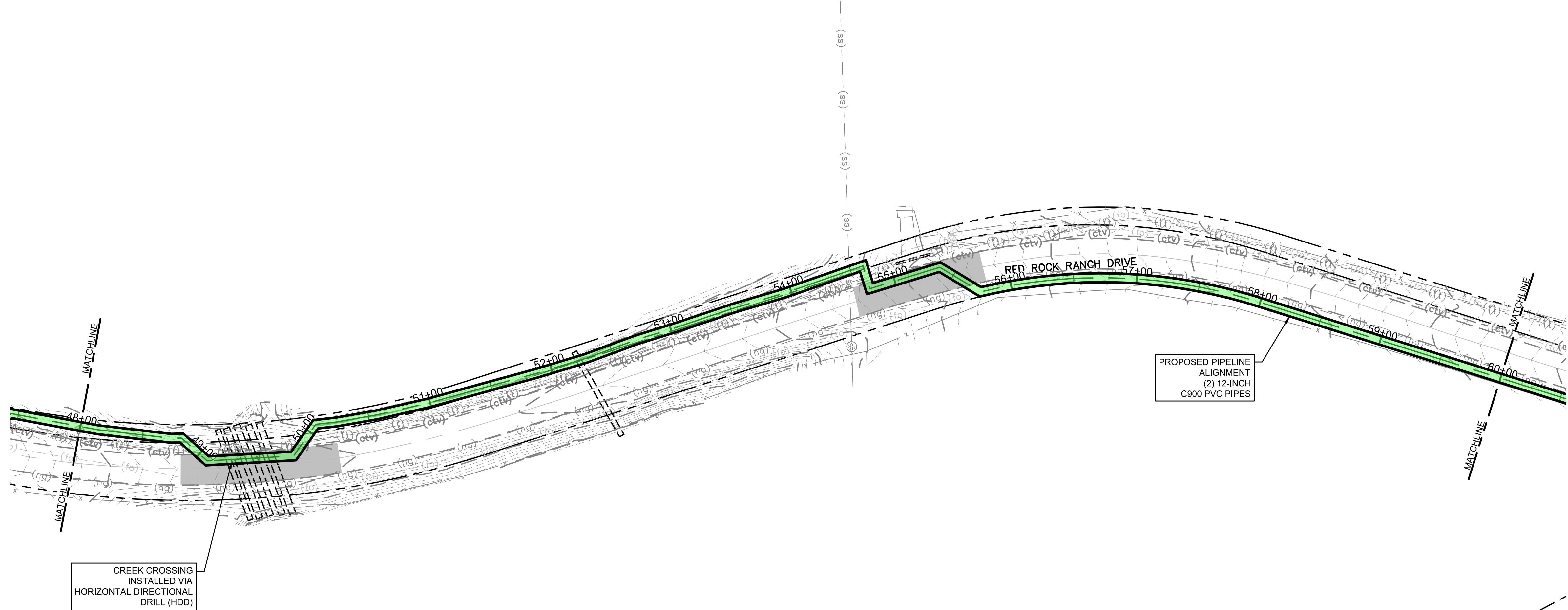
TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	ⓔ
ELECTRIC MANHOLE	ⓔ
ELECTRIC METER	ⓔ
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	IRR
SANITARY SEWER LINE	SS
SANITARY SEWER CLEANOUT	---
SANITARY SEWER MANHOLE	Ⓢ
SECONDARY WATER LINE	SW
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	SD
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	COMM
TELEPHONE BOX	Ⓣ
TELEPHONE MANHOLE	Ⓣ
TELEPHONE POST	---
WATER LINE	PW
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	OHE
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	12 11 4 3
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	CP800

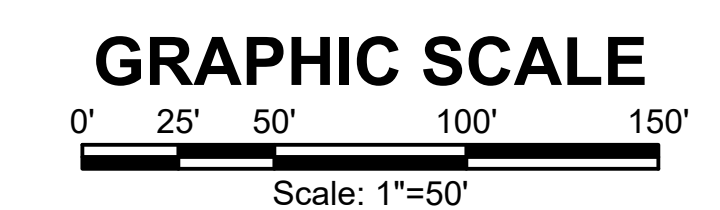
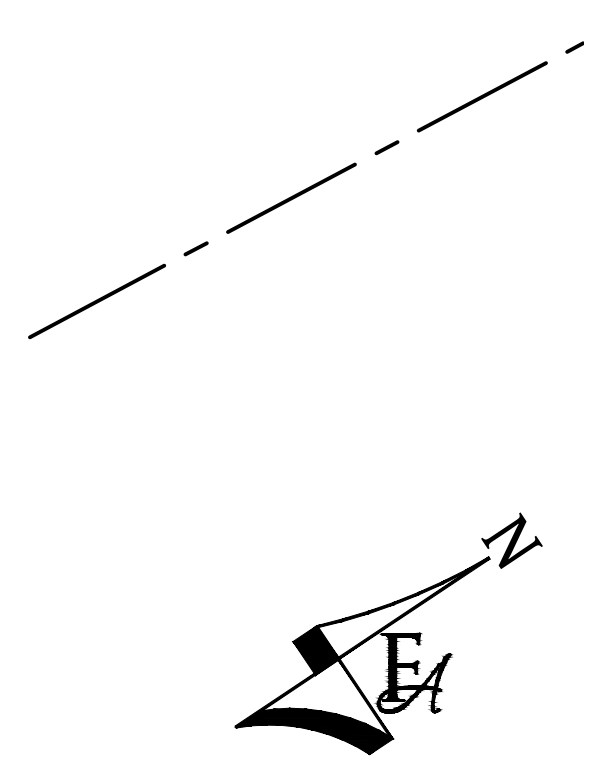


LEGEND		PHASE	
(VTC)	VEHICLE TRACKING CONTROL		INITIAL
(SF)	SILT FENCE	---	INITIAL
(ECB)	EROSION CONTROL BLANKET		FINAL
(CD)	ROCK CHECK DAM		INTERIM
(LOC)	LIMIT OF CONSTRUCTION	---	FINAL
(CWA)	CONCRETE WASH AREA		INTERIM
(SSA)	STABILIZED STAGING AREA		INTERIM
(TOP)	TEMPORARY OUTLET PROTECTION		INTERIM
	FLOW DIRECTION		
(ST)	SEDIMENT TRAP		INTERIM

**GENERAL CONSTRUCTION NOTES:**

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PCD FILE NO. PPR-21-030

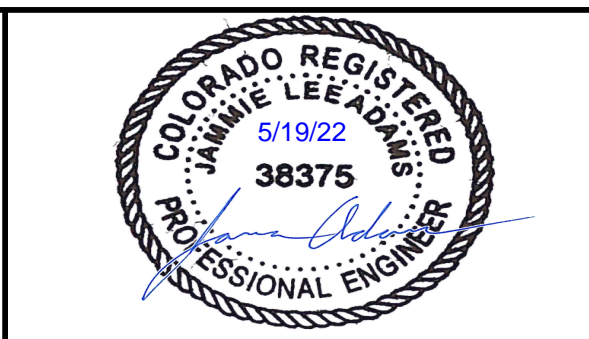
NO.	REVISIONS	BY	DATE

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

**PRELIMINARY  
 DRAWING  
 NOT FOR  
 CONSTRUCTION**



**FORSGREN Associates Inc.**  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 48+00 TO STA 60+00

PROJECT NO: <b>04-20-0153</b>	PAGE NO: 8 OF 25
SHEET NO: <b>8</b>	DATE: NOV, 2021

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\GEOPIPELINE\GEC - OVERALL PLAN VIEWS.dwg - 221/2022 2:24 PM



TOWN OF MONUMENT - WATERLINE  
SITE DEVELOPMENT PLANS - PIPELINES  
LOT 6, FOREST VIEW ESTATES FILING NO 4



PROPOSED PIPELINE ALIGNMENT  
(2) 12-INCH C900 PVC PIPES

NOTE: NO PIPELINE CONSTRUCTION IS PERMITTED IN THE ROW UNTIL THE FINAL PIPELINE CONSTRUCTION PLANS HAVE BEEN APPROVED.

LEGEND

- (VTC) VEHICLE TRACKING CONTROL
- (SF) SILT FENCE
- (ECB) EROSION CONTROL BLANKET
- (CD) ROCK CHECK DAM
- (LOC) LIMIT OF CONSTRUCTION
- (CWA) CONCRETE WASH AREA
- (SSA) STABILIZED STAGING AREA
- (TOP) TEMPORARY OUTLET PROTECTION
- FLOW DIRECTION
- (ST) SEDIMENT TRAP

PHASE

- INITIAL
- INITIAL
- FINAL
- INTERIM
- FINAL
- INTERIM
- INTERIM
- INTERIM
- INTERIM
- INTERIM

LIMITS OF DISTURBANCE

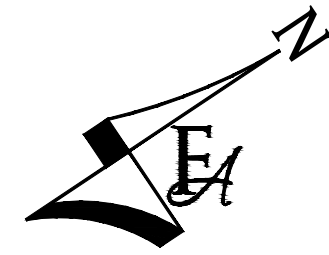
- DOUBLE PIPE TRENCH
- SINGLE PIPE TRENCH

LEGEND

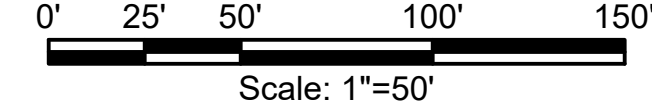
- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT BOX
- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT

GENERAL CONSTRUCTION NOTES:

1. INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
2. ANY UNPAVED AREA THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESEEDDED AND MULCHED.



GRAPHIC SCALE



PCD FILE NO. PPR-21-030

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\GEOPIPELINE\GEC - OVERALL PLAN VIEWS.dwg - 221/2022 2:27 PM

NO.	REVISIONS	BY	DATE

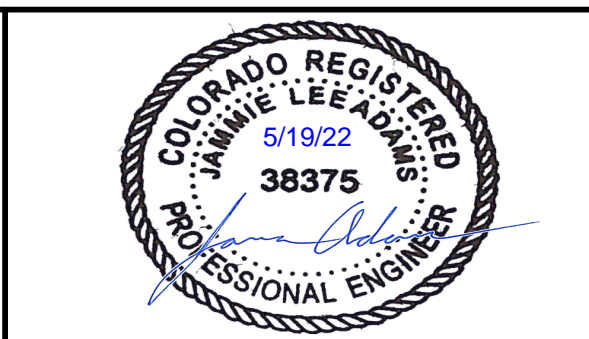
**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)

**PRELIMINARY  
DRAWING  
NOT FOR  
CONSTRUCTION**



**FORSGREN**  
*Associates Inc.*

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644



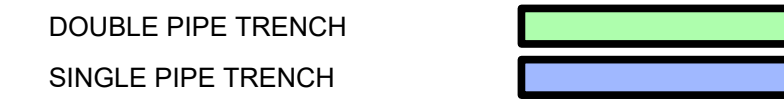
**TOWN OF MONUMENT WATERLINE  
GRADING AND EROSION CONTROL PLAN  
PIPELINE ALIGNMENTS**

STA 60+00 TO STA 72+00

PROJECT NO: <b>04-20-0153</b>	PAGE NO: 9 OF 25
SHEET NO: <b>9</b>	DATE: NOV, 2021

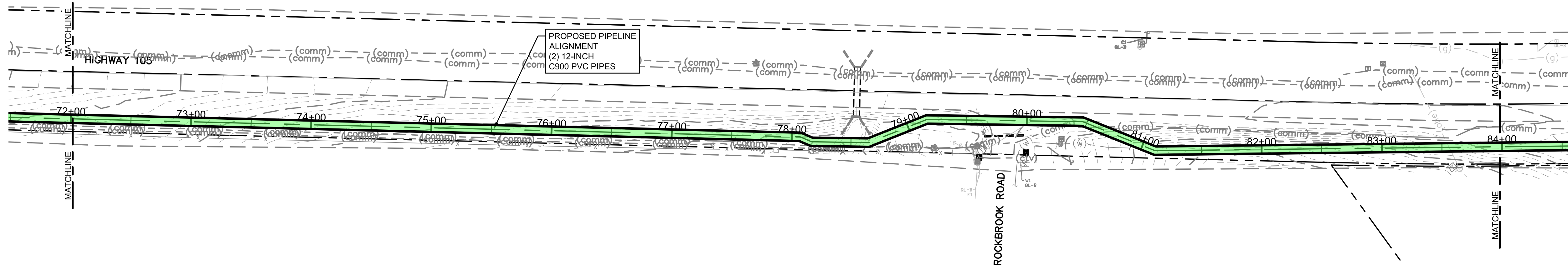
TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	ⓔ
ELECTRIC MANHOLE	ⓔ
ELECTRIC METER	ⓔ
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	IRR
SANITARY SEWER LINE	SS
SANITARY SEWER CLEANOUT	Ⓢ
SANITARY SEWER MANHOLE	Ⓢ
SECONDARY WATER LINE	SW
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	SD
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	SD
TELEPHONE CABLE	COMM
TELEPHONE BOX	Ⓣ
TELEPHONE MANHOLE	Ⓣ
TELEPHONE POST	Ⓣ
WATER LINE	PW
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	OHE
POWER POLE	ⓐ
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	12 11
MONUMENT	4 3
BENCH MARK	---
SURVEY CONTROL POINT	CP800



LEGEND

VTC	VEHICLE TRACKING CONTROL
SF	SILT FENCE
ECB	EROSION CONTROL BLANKET
CD	ROCK CHECK DAM
LOC	LIMIT OF CONSTRUCTION
CWA	CONCRETE WASH AREA
SSA	STABILIZED STAGING AREA
TOP	TEMPORARY OUTLET PROTECTION
ST	SEDIMENT TRAP

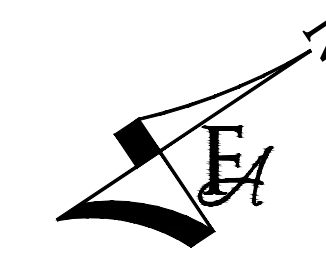
PHASE

INITIAL	---
INITIAL	SF
FINAL	---
INTERIM	---
FINAL	X
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---

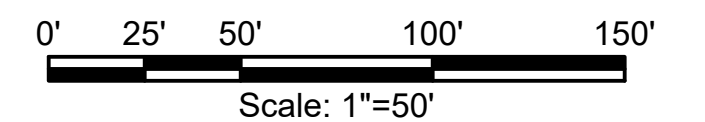
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GRAPHIC SCALE



PCD FILE NO. PPR-21-030

NO.	REVISIONS	BY	DATE

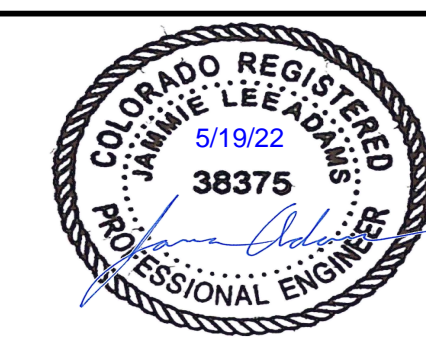
DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

**PRELIMINARY  
 DRAWING  
 NOT FOR  
 CONSTRUCTION**



**FORSGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 72+00 TO STA 84+00

PROJECT NO:	04-20-0153
SHEET NO:	10
DATE:	NOV, 2021
PAGE NO:	10 OF 25

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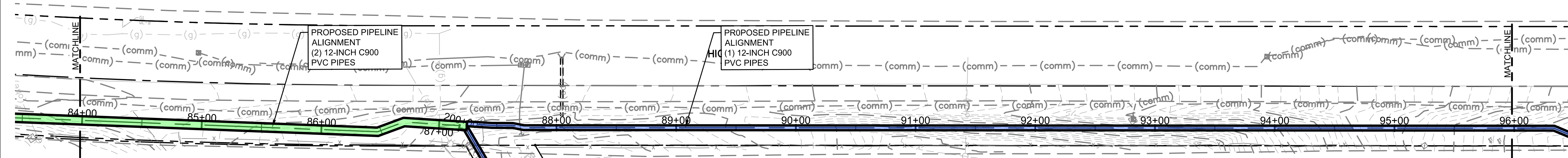
TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	ⓔ
ELECTRIC MANHOLE	ⓔ
ELECTRIC METER	ⓔ
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	IRR
SANITARY SEWER LINE	SS
SANITARY SEWER CLEANOUT	Ⓢ
SANITARY SEWER MANHOLE	Ⓢ
SECONDARY WATER LINE	SW
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	SD
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	---
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	---
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



LEGEND

VTC	VEHICLE TRACKING CONTROL
SF	SILT FENCE
ECB	EROSION CONTROL BLANKET
CD	ROCK CHECK DAM
LOC	LIMIT OF CONSTRUCTION
CWA	CONCRETE WASH AREA
SSA	STABILIZED STAGING AREA
TOP	TEMPORARY OUTLET PROTECTION
ST	SEDIMENT TRAP

PHASE

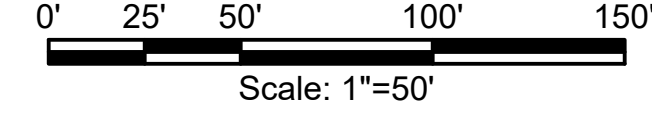
INITIAL	---
INITIAL	---
FINAL	---
INTERIM	---
FINAL	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---

GENERAL CONSTRUCTION NOTES:

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GRAPHIC SCALE



PCD FILE NO. PPR-21-030

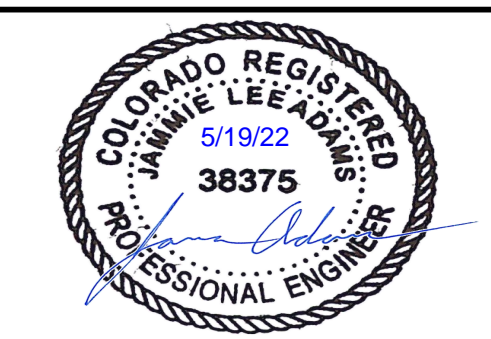
NO.	REVISIONS	BY	DATE

ATTENTION  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2"-SCALE ACCORDINGLY)

PRELIMINARY  
 DRAWING  
 NOT FOR  
 CONSTRUCTION



**FORSGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE**  
**GRADING AND EROSION CONTROL PLAN**  
**PIPELINE ALIGNMENTS**  
 STA 84+00 TO STA 96+00

PROJECT NO:	04-20-0153
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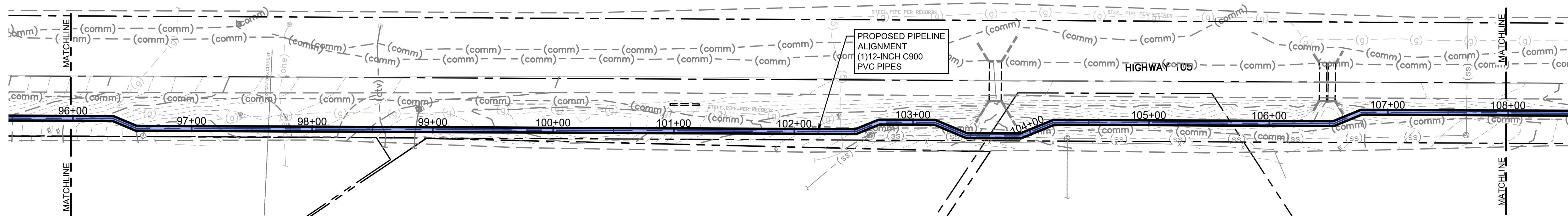
TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	ⓔ
ELECTRIC MANHOLE	ⓔ
ELECTRIC METER	ⓔ
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	IRR
SANITARY SEWER LINE	SS
SANITARY SEWER CLEANOUT	Ⓢ
SANITARY SEWER MANHOLE	Ⓢ
SECONDARY WATER LINE	SW
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	SD
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	COMM
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	PW
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	OHE
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	12 11 4 3
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	CP800



LEGEND

VTC	VEHICLE TRACKING CONTROL
SF	SILT FENCE
ECB	EROSION CONTROL BLANKET
CD	ROCK CHECK DAM
LOC	LIMIT OF CONSTRUCTION
CWA	CONCRETE WASH AREA
SSA	STABILIZED STAGING AREA
TOP	TEMPORARY OUTLET PROTECTION
ST	SEDIMENT TRAP
FLOW	FLOW DIRECTION

PHASE

INITIAL	---
INITIAL	---
FINAL	---
INTERIM	---
FINAL	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---

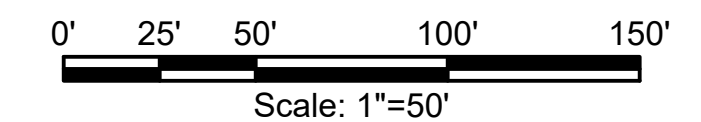
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GRAPHIC SCALE



PCD FILE NO. PPR-21-030

NO.	REVISIONS	BY	DATE

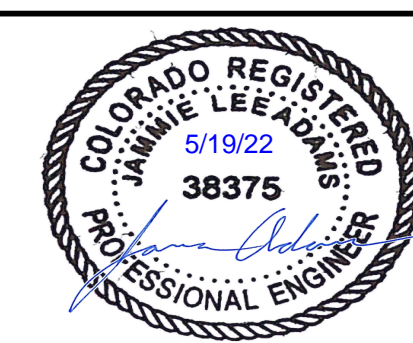
DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
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**PRELIMINARY  
 DRAWING  
 NOT FOR  
 CONSTRUCTION**



**FORSGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 96+00 TO STA 108+00

PROJECT NO:	04-20-0153
SHEET NO:	12
DATE:	NOV, 2021
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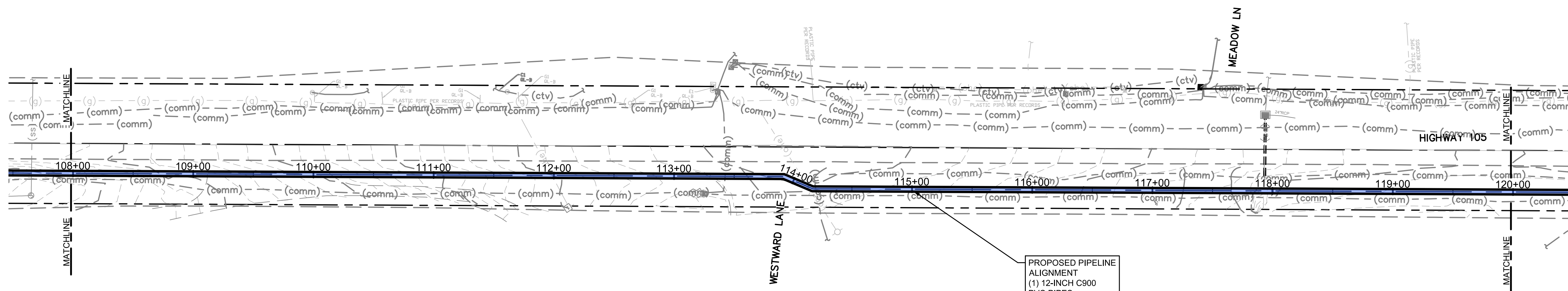
TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	(E)
ELECTRIC MANHOLE	(E)
ELECTRIC METER	(E)
GAS LINE	---
GAS VALVE	(G)
GAS METER	(G)
IRRIGATION LINE	IRR
SANITARY SEWER LINE	SS
SANITARY SEWER CLEANOUT	(S)
SANITARY SEWER MANHOLE	(S)
SECONDARY WATER LINE	SW
SECONDARY WATER VALVE	(SW)
SECONDARY WATER VAULT	(SW)
STORM DRAIN LINE	SD
STORM DRAIN CATCH BASIN	(SD)
STORM DRAIN INLET(S)	(SD)
STORM DRAIN COMBO BOX	(SD)
STORM DRAIN MANHOLE	(D)
STORM DRAIN CLEANOUT BOX	(D)
STORM DRAIN VAULT	(SD)
CULVERT	SD
TELEPHONE CABLE	COMM
TELEPHONE BOX	(T)
TELEPHONE MANHOLE	(T)
TELEPHONE POST	(T)
WATER LINE	PW
FIRE HYDRANT	(F)
FIRE RISER	(F)
WATER VALVE	(W)
WATER AIR RELEASE VALVE	(W)
WATER METER	(W)
UTILITY POLE & ANCHOR	OHE
POWER POLE	(P)
STREET LIGHT	(L)
LIGHT	(L)
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	12 11 4 3
MONUMENT	(M)
BENCH MARK	(B)
SURVEY CONTROL POINT	CP800



LEGEND

(VTC)	VEHICLE TRACKING CONTROL
(SF)	SILT FENCE
(ECB)	EROSION CONTROL BLANKET
(CD)	ROCK CHECK DAM
(LOC)	LIMIT OF CONSTRUCTION
(CWA)	CONCRETE WASH AREA
(SSA)	STABILIZED STAGING AREA
(TOP)	TEMPORARY OUTLET PROTECTION
(ST)	SEDIMENT TRAP

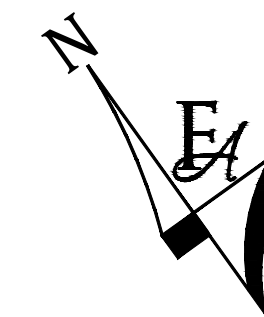
PHASE

(INITIAL)	INITIAL
(FINAL)	FINAL
(INTERIM)	INTERIM
(FINAL)	FINAL
(INTERIM)	INTERIM
(INTERIM)	INTERIM
(INTERIM)	INTERIM
(INTERIM)	INTERIM

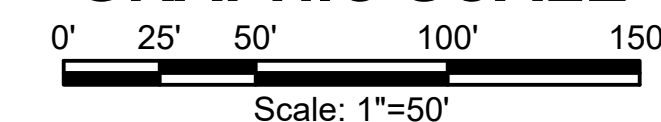
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GRAPHIC SCALE



PCD FILE NO. PPR-21-030

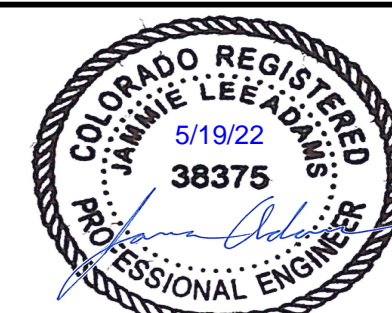
DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
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 NOT FOR  
 CONSTRUCTION**



**FORSGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 108+00 TO STA 120+00

PROJECT NO:	04-20-0153
SHEET NO:	13
DATE:	NOV, 2021
PAGE NO:	13 OF 25

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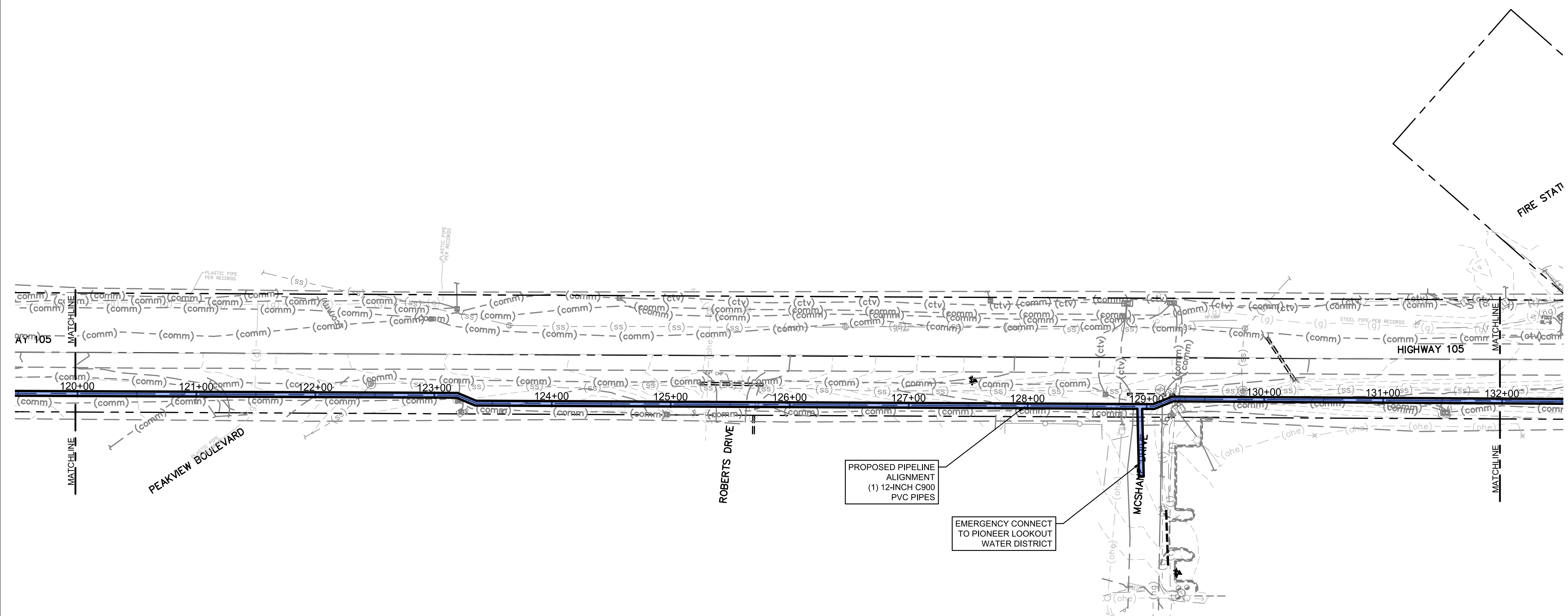
TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	⊕
ELECTRIC MANHOLE	⊕
ELECTRIC METER	⊕
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	---
SANITARY SEWER LINE	---
SANITARY SEWER CLEANOUT	⊕
SANITARY SEWER MANHOLE	⊕
SECONDARY WATER LINE	---
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	---
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	---
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	---
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



PROPOSED PIPELINE ALIGNMENT  
 (1) 12-INCH C900 PVC PIPES

EMERGENCY CONNECT TO PIONEER LOOKOUT WATER DISTRICT

LEGEND

VTC	VEHICLE TRACKING CONTROL	---
SF	SILT FENCE	---
ECB	EROSION CONTROL BLANKET	---
CD	ROCK CHECK DAM	---
LOC	LIMIT OF CONSTRUCTION	---
CWA	CONCRETE WASH AREA	---
SSA	STABILIZED STAGING AREA	---
TOP	TEMPORARY OUTLET PROTECTION	---
FLOW DIRECTION	---	---
ST	SEDIMENT TRAP	---

PHASE

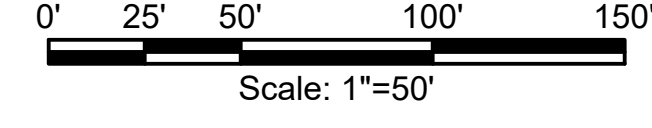
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---	FINAL
---	INTERIM
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---	INTERIM
---	INTERIM

GENERAL CONSTRUCTION NOTES:

- INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
- ANY UNPAVED AREA THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESEEDED AND MULCHED.

NOTE: NO PIPELINE CONSTRUCTION IS PERMITTED IN THE ROW UNTIL THE FINAL PIPELINE CONSTRUCTION PLANS HAVE BEEN APPROVED.

GRAPHIC SCALE



PCD FILE NO. PPR-21-030

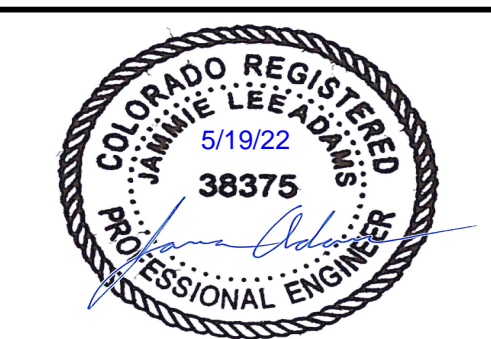
NO.	REVISIONS	BY	DATE

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2"-SCALE ACCORDINGLY)

PRELIMINARY  
 DRAWING  
 NOT FOR  
 CONSTRUCTION



**FORSGREN Associates Inc.**  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE**  
**GRADING AND EROSION CONTROL PLAN**  
**PIPELINE ALIGNMENTS**  
 STA 120+00 TO STA 132+00

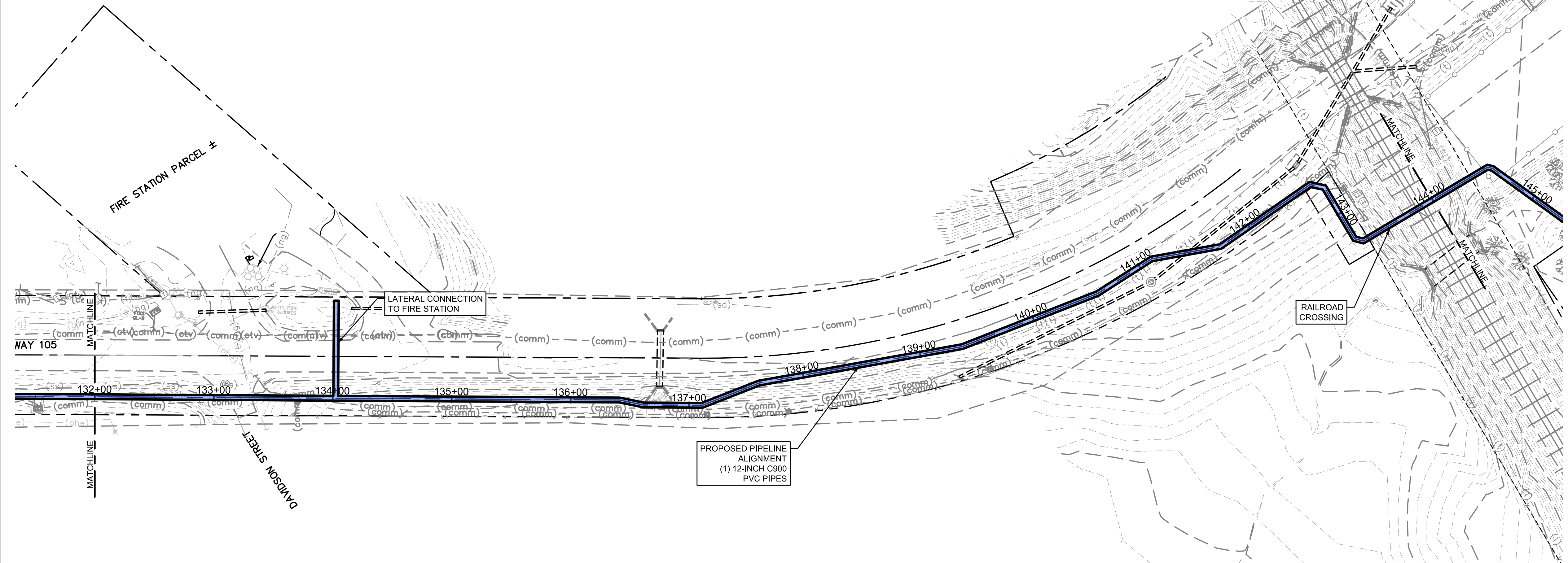
PROJECT NO:	04-20-0153
SHEET NO:	14
DATE:	NOV, 2021
PAGE NO:	14 OF 25

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\GEOPIPELINE\GEC - OVERALL PLAN VIEWS.dwg - 2/21/2022 2:58 PM

TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	ⓔ
ELECTRIC MANHOLE	ⓔ
ELECTRIC METER	ⓔ
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	IRR
SANITARY SEWER LINE	SS
SANITARY SEWER CLEANOUT	---
SANITARY SEWER MANHOLE	Ⓢ
SECONDARY WATER LINE	SW
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	SD
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	---
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	---
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



LEGEND

PHASE

VTC	VEHICLE TRACKING CONTROL		INITIAL
SF	SILT FENCE		INITIAL
ECB	EROSION CONTROL BLANKET		FINAL
CD	ROCK CHECK DAM		INTERIM
LOC	LIMIT OF CONSTRUCTION		FINAL
CWA	CONCRETE WASH AREA		INTERIM
SSA	STABILIZED STAGING AREA		INTERIM
TOP	TEMPORARY OUTLET PROTECTION		INTERIM
FLOW	FLOW DIRECTION		
ST	SEDIMENT TRAP		INTERIM

GENERAL CONSTRUCTION NOTES:

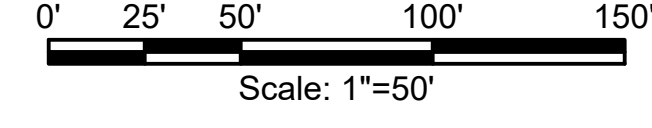
1. INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
2. ANY UNPAVED AREA THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESEEDED AND MULCHED.

LIMITS OF DISTURBANCE



NOTE: NO PIPELINE CONSTRUCTION IS PERMITTED IN THE ROW UNTIL THE FINAL PIPELINE CONSTRUCTION PLANS HAVE BEEN APPROVED.

GRAPHIC SCALE



PCD FILE NO. PPR-21-030

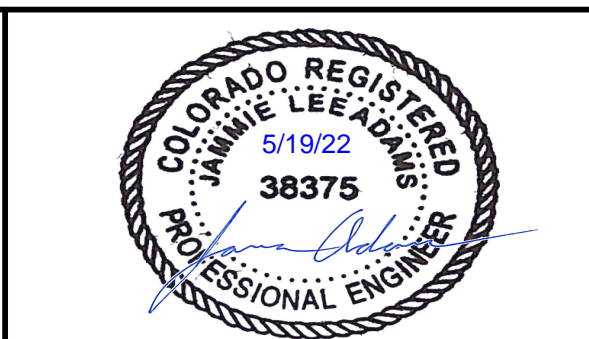
NO.	REVISIONS	BY	DATE

ATTENTION  
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PRELIMINARY  
 DRAWING  
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 CONSTRUCTION



**FORSGREN Associates Inc.**  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644

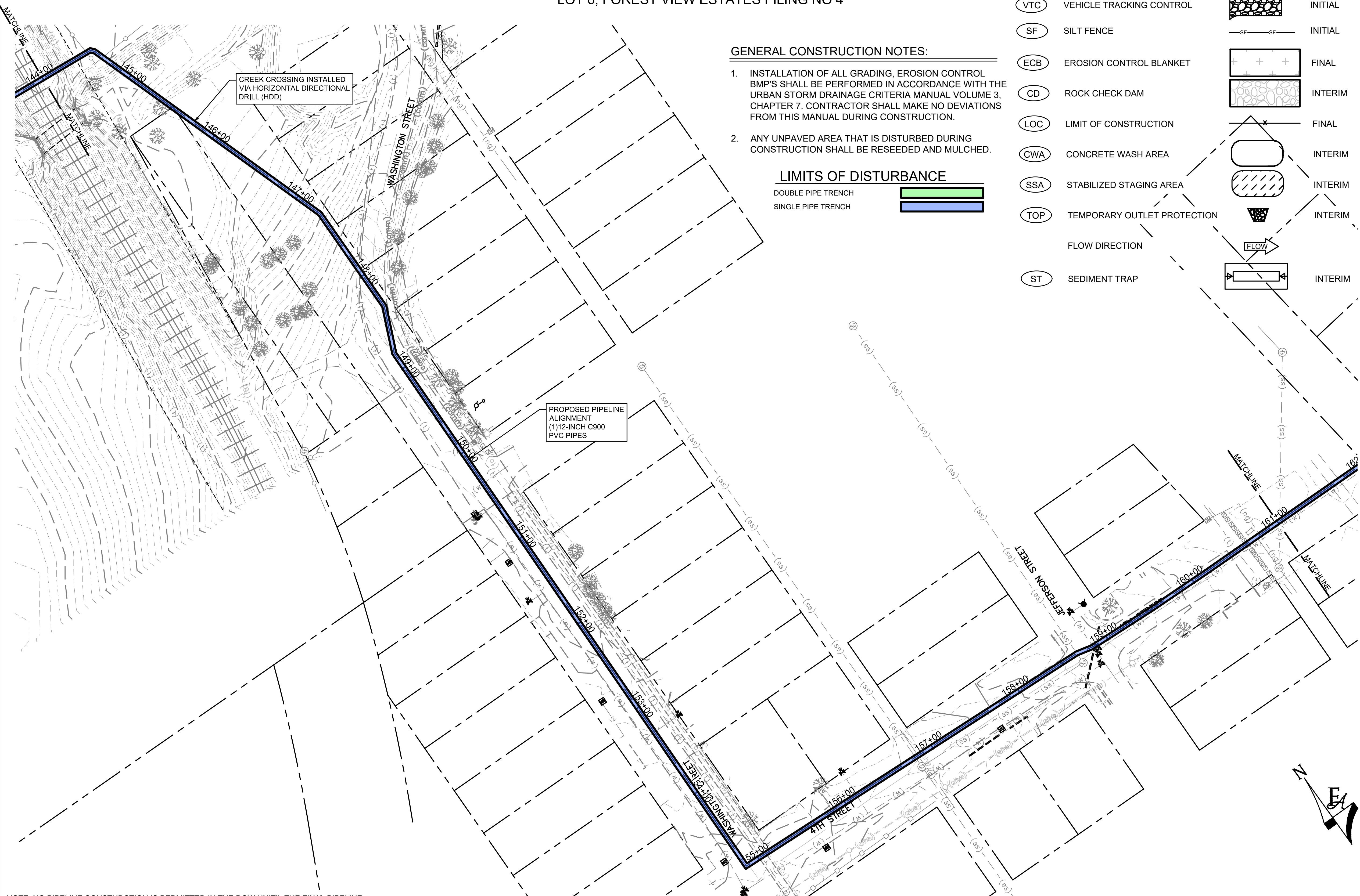


**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 132+00 TO STA 144+00

PROJECT NO:	04-20-0153
SHEET NO:	15
DATE:	NOV, 2021
PAGE NO:	15 OF 25

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TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4



GENERAL CONSTRUCTION NOTES:

1. INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
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LIMITS OF DISTURBANCE



LEGEND

- (VTC) VEHICLE TRACKING CONTROL
- (SF) SILT FENCE
- (ECB) EROSION CONTROL BLANKET
- (CD) ROCK CHECK DAM
- (LOC) LIMIT OF CONSTRUCTION
- (CWA) CONCRETE WASH AREA
- (SSA) STABILIZED STAGING AREA
- (TOP) TEMPORARY OUTLET PROTECTION
- FLOW DIRECTION
- (ST) SEDIMENT TRAP

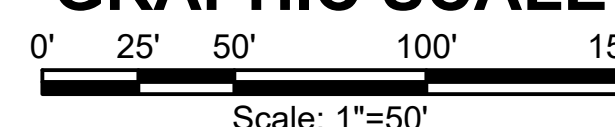
PHASE

- INITIAL
- INITIAL
- FINAL
- INTERIM
- FINAL
- INTERIM
- INTERIM
- INTERIM
- INTERIM

LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SECONDARY WATER LINE
- SECONDARY WATER VALVE
- SECONDARY WATER VAULT
- STORM DRAIN LINE
- STORM DRAIN CATCH BASIN
- STORM DRAIN INLET(S)
- STORM DRAIN COMBO BOX
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT BOX
- STORM DRAIN VAULT
- CULVERT
- TELEPHONE CABLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE POST
- WATER LINE
- FIRE HYDRANT
- FIRE RISER
- WATER VALVE
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- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT

GRAPHIC SCALE



PCD FILE NO. PPR-21-030

NOTE: NO PIPELINE CONSTRUCTION IS PERMITTED IN THE ROW UNTIL THE FINAL PIPELINE CONSTRUCTION PLANS HAVE BEEN APPROVED.

NO.	REVISIONS	BY	DATE

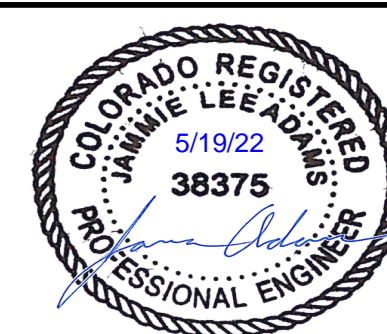
DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

**PRELIMINARY  
 DRAWING  
 NOT FOR  
 CONSTRUCTION**



**FORSGREN**  
*Associates Inc.*  
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



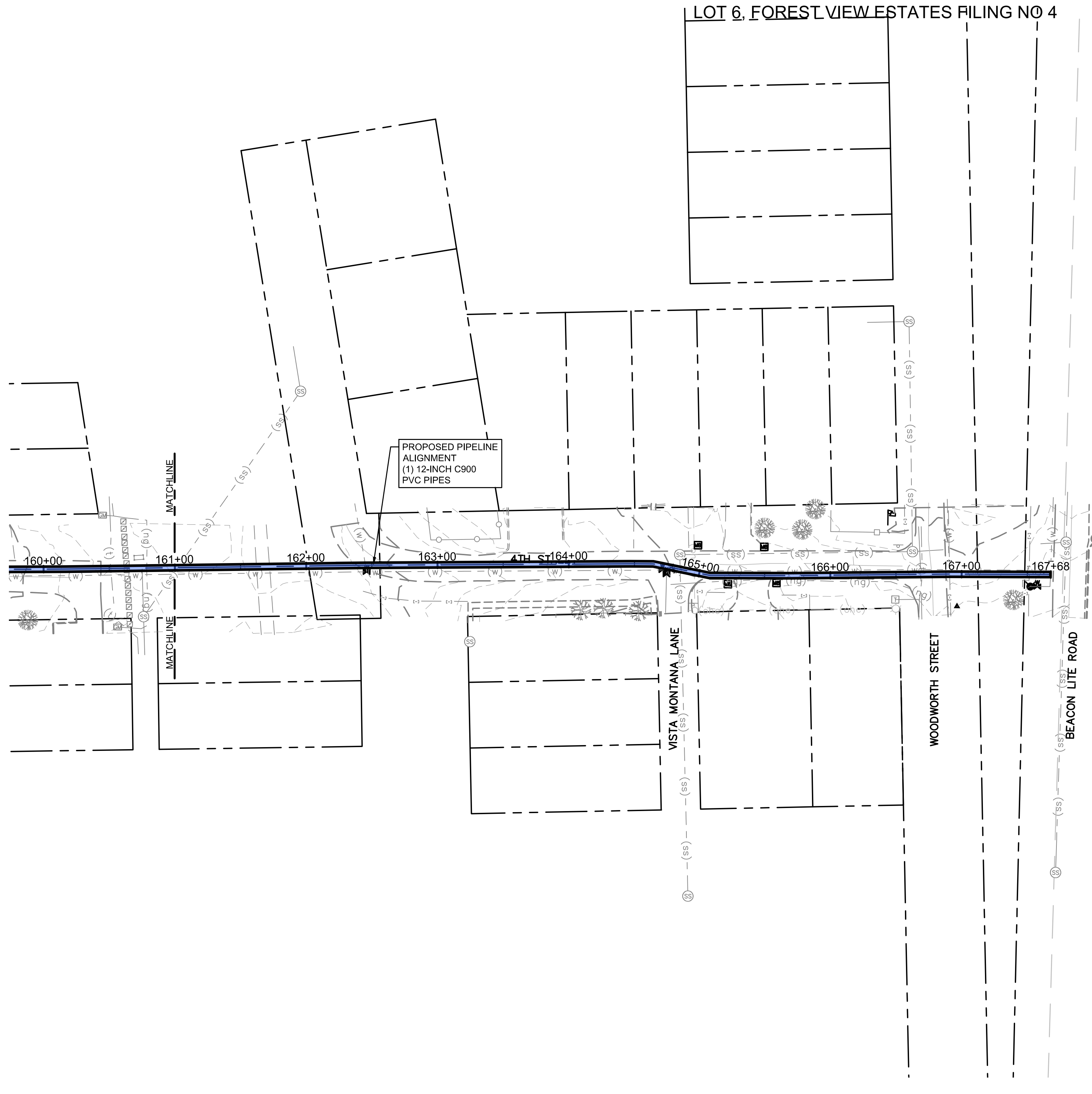
**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 144+00 TO STA 161+00

PROJECT NO:	04-20-0153
SHEET NO:	16
DATE:	NOV, 2021
PAGE NO:	16 OF 25

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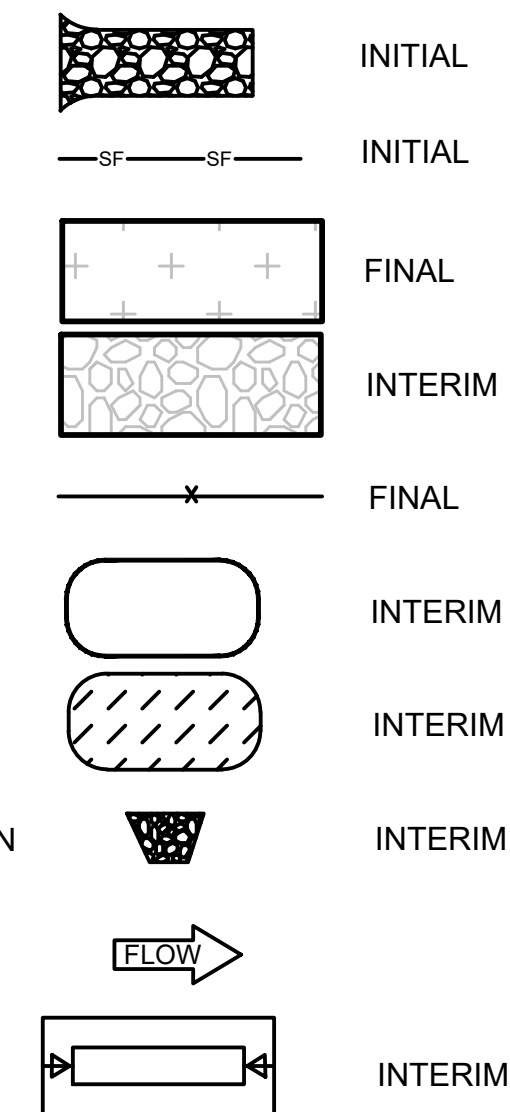


TOWN OF MONUMENT - WATERLINE  
SITE DEVELOPMENT PLANS - PIPELINES  
LOT 6, FOREST VIEW ESTATES FILING NO 4



LEGEND

- (VTC) VEHICLE TRACKING CONTROL
- (SF) SILT FENCE
- (ECB) EROSION CONTROL BLANKET
- (CD) ROCK CHECK DAM
- (LOC) LIMIT OF CONSTRUCTION
- (CWA) CONCRETE WASH AREA
- (SSA) STABILIZED STAGING AREA
- (TOP) TEMPORARY OUTLET PROTECTION
- FLOW DIRECTION
- (ST) SEDIMENT TRAP



GENERAL CONSTRUCTION NOTES:

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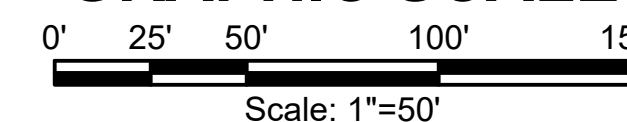
LIMITS OF DISTURBANCE



LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
- GAS VALVE
- GAS METER
- IRRIGATION LINE
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
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- STREET LIGHT
- LIGHT
- ASPHALT PAVING
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- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT

GRAPHIC SCALE



PCD FILE NO. PPR-21-030

NOTE: NO PIPELINE CONSTRUCTION IS PERMITTED IN THE ROW UNTIL THE FINAL PIPELINE CONSTRUCTION PLANS HAVE BEEN APPROVED.

NO.	REVISIONS	BY	DATE

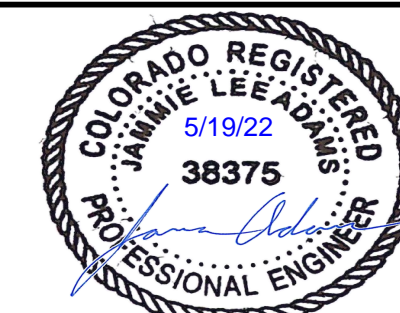
DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)

**PRELIMINARY  
DRAWING  
NOT FOR  
CONSTRUCTION**



**FORSGREN**  
*Associates Inc.*  
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
GRADING AND EROSION CONTROL PLAN  
PIPELINE ALIGNMENTS**  
STA 161+00 TO STA 166+00

PROJECT NO:	04-20-0153
SHEET NO:	17
DATE:	NOV, 2021
PAGE NO:	17 OF 25

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\GEOPIPELINE\GEC - OVERALL PLAN VIEWS.dwg - 221/2022 3:13 PM

TOWN OF MONUMENT - WATERLINE  
SITE DEVELOPMENT PLANS - PIPELINES  
LOT 6, FOREST VIEW ESTATES FILING NO 4

LEGEND

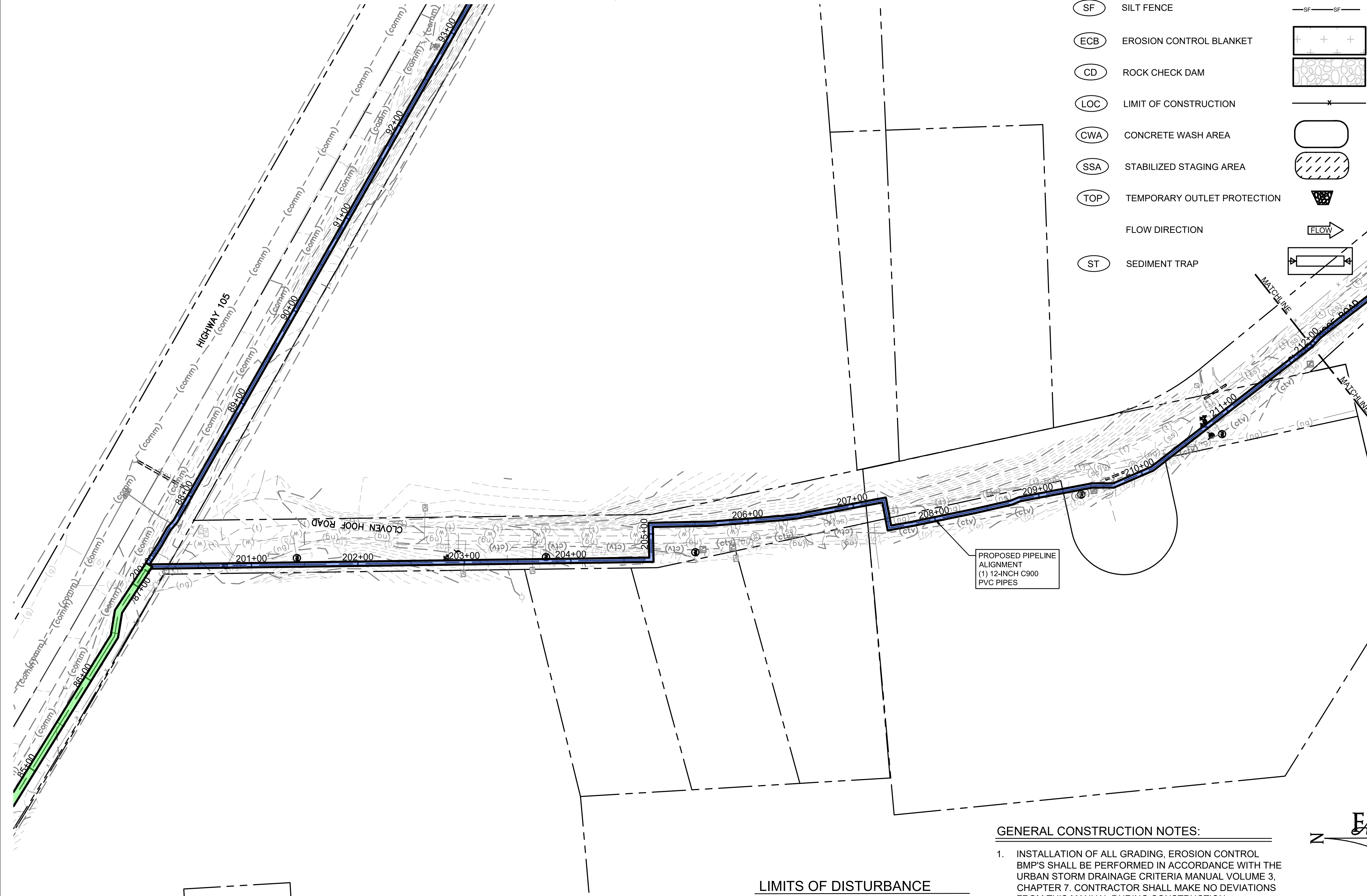
- (VTC) VEHICLE TRACKING CONTROL
- (SF) SILT FENCE
- (ECB) EROSION CONTROL BLANKET
- (CD) ROCK CHECK DAM
- (LOC) LIMIT OF CONSTRUCTION
- (CWA) CONCRETE WASH AREA
- (SSA) STABILIZED STAGING AREA
- (TOP) TEMPORARY OUTLET PROTECTION
- FLOW DIRECTION
- (ST) SEDIMENT TRAP

PHASE

- INITIAL
- INITIAL
- FINAL
- INTERIM
- FINAL
- INTERIM
- INTERIM
- INTERIM
- INTERIM
- INTERIM

LEGEND

- MATCH LINE
- CENTER LINE
- CONTROL LINE
- PROPERTY OR R/W LINE
- EASEMENT LINE
- STREET MONUMENT LINE
- WIRE FENCE
- CHAIN LINK FENCE
- BARBED WIRE FENCE
- CONTOUR LINE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- GAS LINE
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- IRRIGATION LINE
- SANITARY SEWER LINE
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- WATER VALVE
- WATER AIR RELEASE VALVE
- WATER METER
- UTILITY POLE & ANCHOR
- POWER POLE
- STREET LIGHT
- LIGHT
- ASPHALT PAVING
- CURB & GUTTER
- SIDEWALK
- RAILROAD TRACKS
- GUARD RAIL
- SIGN
- STRUCTURE
- LANDSCAPING (TREES ETC.)
- SECTION CORNER
- MONUMENT
- BENCH MARK
- SURVEY CONTROL POINT



PROPOSED PIPELINE  
ALIGNMENT  
(1) 12-INCH C900  
PVC PIPES

GENERAL CONSTRUCTION NOTES:

1. INSTALLATION OF ALL GRADING, EROSION CONTROL BMP'S SHALL BE PERFORMED IN ACCORDANCE WITH THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3, CHAPTER 7. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THIS MANUAL DURING CONSTRUCTION.
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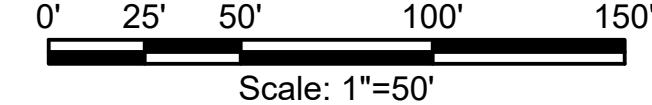
LIMITS OF DISTURBANCE



NOTE: NO PIPELINE CONSTRUCTION IS PERMITTED IN THE ROW UNTIL THE FINAL PIPELINE CONSTRUCTION PLANS HAVE BEEN APPROVED.



GRAPHIC SCALE



PCD FILE NO. PPR-21-030

NO.	REVISIONS	BY	DATE

**ATTENTION**  
LINE IS 2 INCHES  
AT FULL SIZE  
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**PRELIMINARY  
DRAWING  
NOT FOR  
CONSTRUCTION**



**FORSGREN**  
*Associates Inc.*

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE**  
**GRADING AND EROSION CONTROL PLANS**  
**PIPELINE ALIGNMENTS**  
STA 200+00 TO STA 212+00

PROJECT NO: <b>04-20-0153</b>	PAGE NO: 18 OF 25
SHEET NO: <b>18</b>	DATE: NOV, 2021

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\GEO\PIPELINE\GEC - OVERALL PLAN VIEWS.dwg - 221/2022 3:17 PM

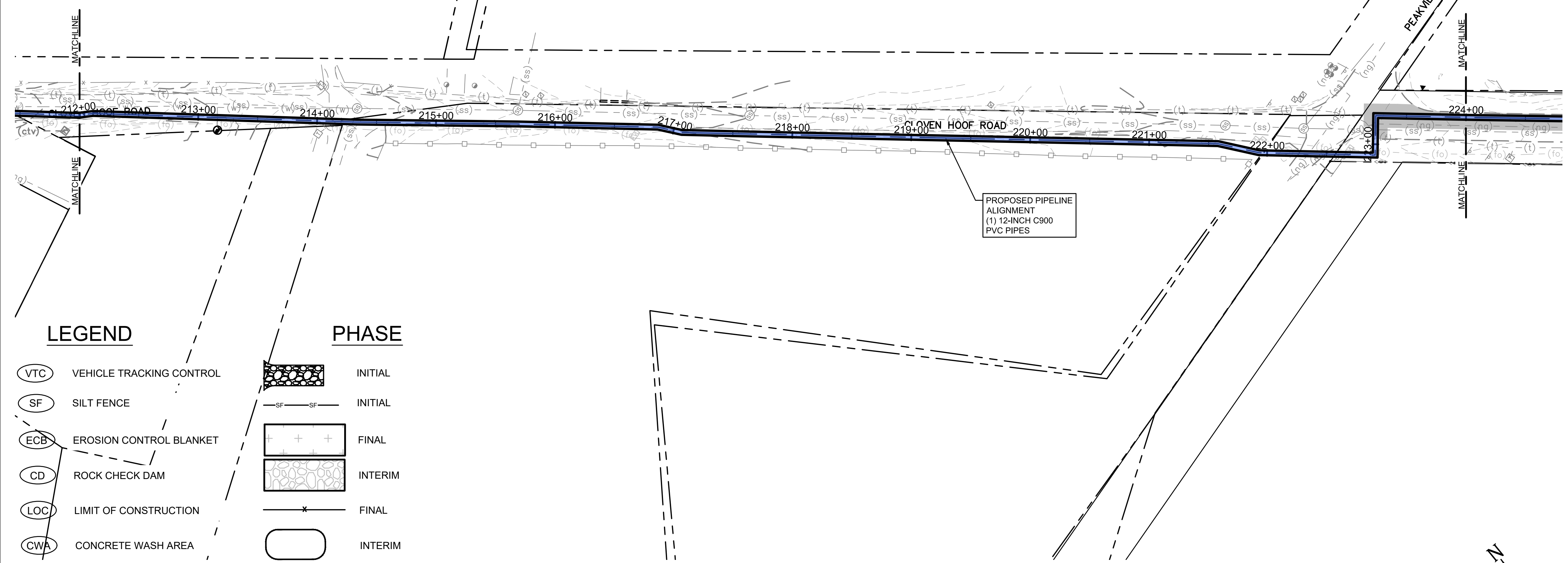
TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	ⓔ
ELECTRIC MANHOLE	ⓔ
ELECTRIC METER	ⓔ
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	IRR
SANITARY SEWER LINE	SS
SANITARY SEWER CLEANOUT	---
SANITARY SEWER MANHOLE	Ⓢ
SECONDARY WATER LINE	SW
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	SD
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	ⓓ
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	SD
TELEPHONE CABLE	COMM
TELEPHONE BOX	Ⓣ
TELEPHONE MANHOLE	Ⓣ
TELEPHONE POST	Ⓣ
WATER LINE	PW
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	OHE
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	12 11 4 3
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	CP800



PROPOSED PIPELINE  
 ALIGNMENT  
 (1) 12-INCH C900  
 PVC PIPES

LEGEND

VTC	VEHICLE TRACKING CONTROL
SF	SILT FENCE
ECB	EROSION CONTROL BLANKET
CD	ROCK CHECK DAM
LOC	LIMIT OF CONSTRUCTION
CWA	CONCRETE WASH AREA
SSA	STABILIZED STAGING AREA
TOP	TEMPORARY OUTLET PROTECTION
FLOW DIRECTION	---
ST	SEDIMENT TRAP

PHASE

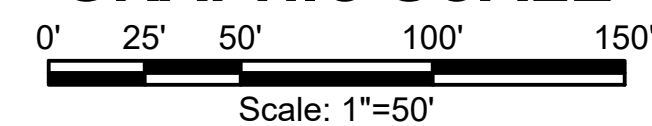
INITIAL	---
INITIAL	---
FINAL	---
INTERIM	---
FINAL	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---
INTERIM	---

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GRAPHIC SCALE



PCD FILE NO. PPR-21-030

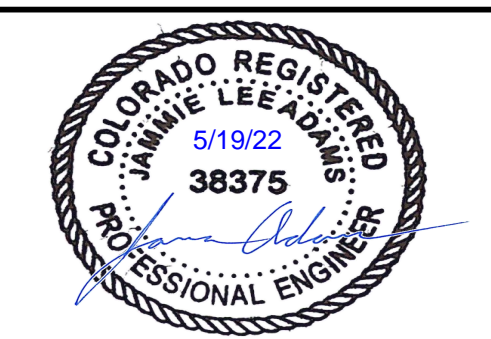
DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

**ATTENTION**  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)

**PRELIMINARY  
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 CONSTRUCTION**



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 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 212+00 TO STA 224+00

PROJECT NO:	04-20-0153
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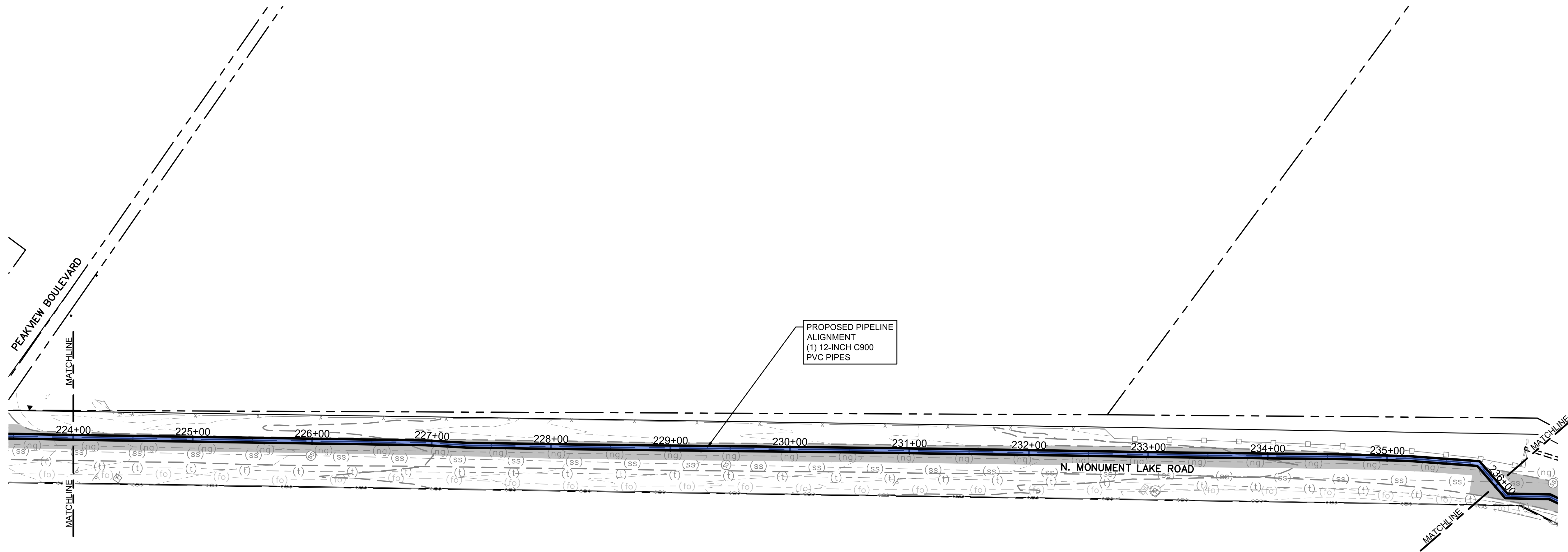
TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---4250---
UNDERGROUND ELECTRIC	---(uge)---
OVERHEAD ELECTRIC	---(ohe)---
ELECTRIC BOX	⊖
ELECTRIC MANHOLE	⊖
ELECTRIC METER	⊖
GAS LINE	---(g)---
GAS VALVE	⊖
GAS METER	⊖
IRRIGATION LINE	---IRR---
SANITARY SEWER LINE	---SS---
SANITARY SEWER CLEANOUT	⊖
SANITARY SEWER MANHOLE	⊖
SECONDARY WATER LINE	---SW---
SECONDARY WATER VALVE	⊖
SECONDARY WATER VAULT	⊖
STORM DRAIN LINE	---SD---
STORM DRAIN CATCH BASIN	⊖
STORM DRAIN INLET(S)	⊖
STORM DRAIN COMBO BOX	⊖
STORM DRAIN MANHOLE	⊖
STORM DRAIN CLEANOUT BOX	⊖
STORM DRAIN VAULT	⊖
CULVERT	SD
TELEPHONE CABLE	---COMM---
TELEPHONE BOX	⊖
TELEPHONE MANHOLE	⊖
TELEPHONE POST	⊖
WATER LINE	---PW---
FIRE HYDRANT	⊖
FIRE RISER	⊖
WATER VALVE	⊖
WATER AIR RELEASE VALVE	⊖
WATER METER	⊖
UTILITY POLE & ANCHOR	⊖ OHE →
POWER POLE	⊖
STREET LIGHT	⊖
LIGHT	⊖
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	12 11 4 3
MONUMENT	⊖
BENCH MARK	⊖
SURVEY CONTROL POINT	⊖ CP800



LEGEND

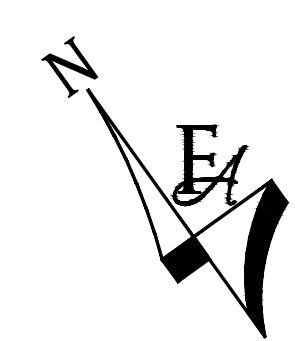
(VTC)	VEHICLE TRACKING CONTROL		INITIAL
(SF)	SILT FENCE		INITIAL
(ECB)	EROSION CONTROL BLANKET		FINAL
(CD)	ROCK CHECK DAM		INTERIM
(LOC)	LIMIT OF CONSTRUCTION		FINAL
(CWA)	CONCRETE WASH AREA		INTERIM
(SSA)	STABILIZED STAGING AREA		INTERIM
(TOP)	TEMPORARY OUTLET PROTECTION		INTERIM
(ST)	SEDIMENT TRAP		INTERIM
	FLOW DIRECTION		

PHASE

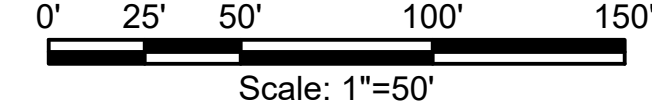
GENERAL CONSTRUCTION NOTES:

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NOTE: NO PIPELINE CONSTRUCTION IS PERMITTED IN THE ROW UNTIL THE FINAL PIPELINE CONSTRUCTION PLANS HAVE BEEN APPROVED.



GRAPHIC SCALE



PCD FILE NO. PPR-21-030

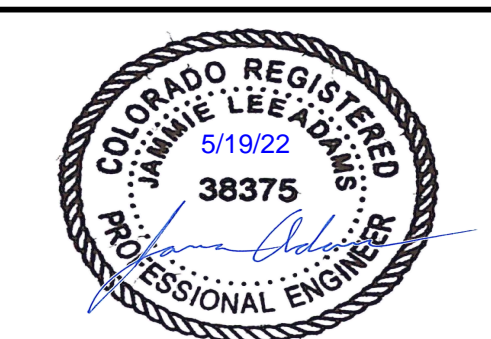
DRAWN	S. CALE
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 PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 224+00 TO STA 336+00

PROJECT NO:	04-20-0153
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DATE:	NOV, 2021
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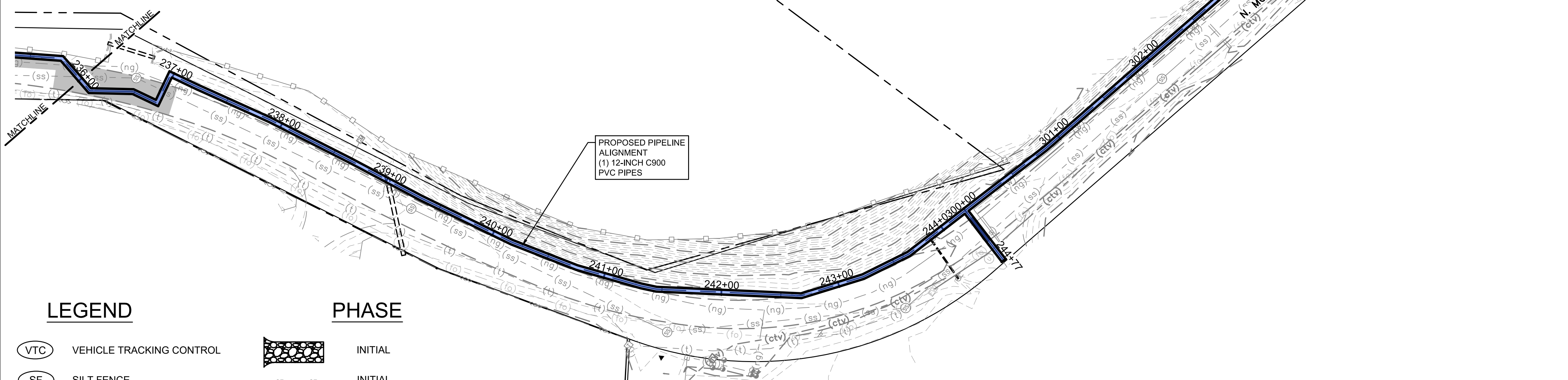
TOWN OF MONUMENT - WATERLINE  
SITE DEVELOPMENT PLANS - PIPELINES  
LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	---
CONTOUR LINE	---
UNDERGROUND ELECTRIC	---
OVERHEAD ELECTRIC	---
ELECTRIC BOX	---
ELECTRIC MANHOLE	---
ELECTRIC METER	---
GAS LINE	---
GAS VALVE	---
GAS METER	---
IRRIGATION LINE	---
SANITARY SEWER LINE	---
SANITARY SEWER CLEANOUT	---
SANITARY SEWER MANHOLE	---
SECONDARY WATER LINE	---
SECONDARY WATER VALVE	---
SECONDARY WATER VAULT	---
STORM DRAIN LINE	---
STORM DRAIN CATCH BASIN	---
STORM DRAIN INLET(S)	---
STORM DRAIN COMBO BOX	---
STORM DRAIN MANHOLE	---
STORM DRAIN CLEANOUT BOX	---
STORM DRAIN VAULT	---
CULVERT	---
TELEPHONE CABLE	---
TELEPHONE BOX	---
TELEPHONE MANHOLE	---
TELEPHONE POST	---
WATER LINE	---
FIRE HYDRANT	---
FIRE RISER	---
WATER VALVE	---
WATER AIR RELEASE VALVE	---
WATER METER	---
UTILITY POLE & ANCHOR	---
POWER POLE	---
STREET LIGHT	---
LIGHT	---
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	---
MONUMENT	---
BENCH MARK	---
SURVEY CONTROL POINT	---



PROPOSED PIPELINE ALIGNMENT  
(1) 12-INCH C900  
PVC PIPES

LEGEND

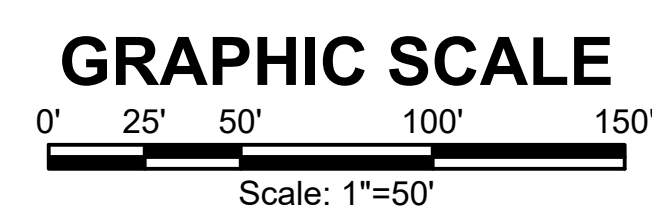
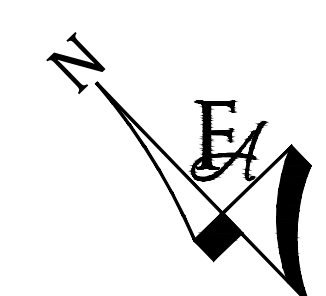
VTC	VEHICLE TRACKING CONTROL		INITIAL
SF	SILT FENCE		INITIAL
ECB	EROSION CONTROL BLANKET		FINAL
CD	ROCK CHECK DAM		INTERIM
LOC	LIMIT OF CONSTRUCTION		FINAL
CWA	CONCRETE WASH AREA		INTERIM
SSA	STABILIZED STAGING AREA		INTERIM
TOP	TEMPORARY OUTLET PROTECTION		INTERIM
FLOW DIRECTION			
ST	SEDIMENT TRAP		INTERIM

PHASE

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PCD FILE NO. PPR-21-030

NO.	REVISIONS	BY	DATE

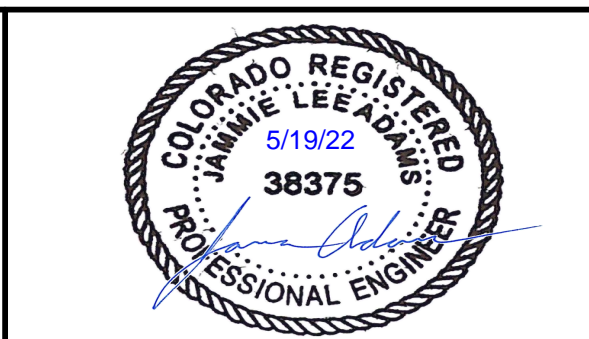
ATTENTION  
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PH: 720.232.6644



**TOWN OF MONUMENT WATERLINE  
GRADING AND EROSION CONTROL PLAN  
PIPELINE ALIGNMENTS**

STA 236+00 TO STA 245+00

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DATE:	NOV, 2021
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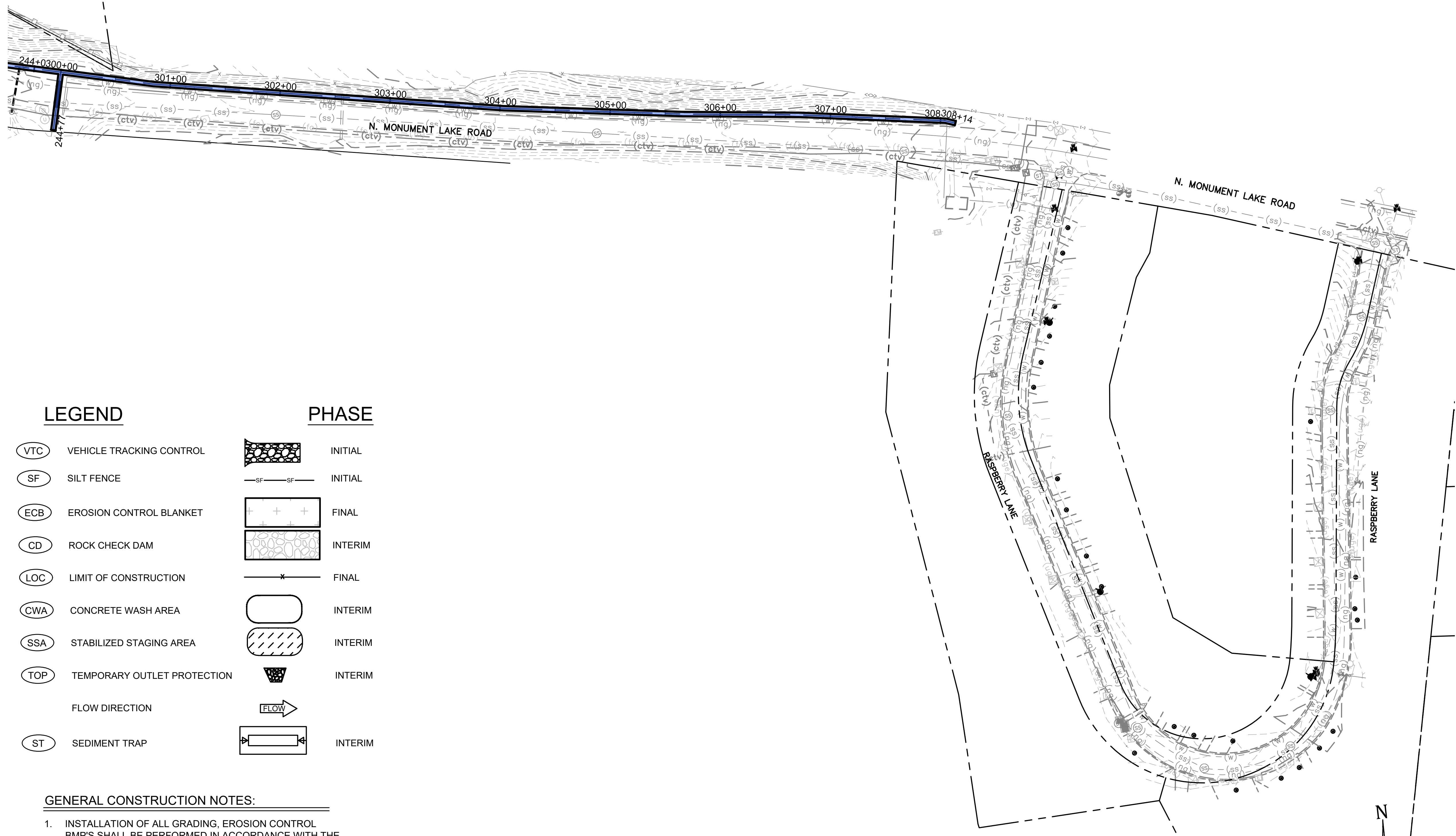
TOWN OF MONUMENT - WATERLINE  
 SITE DEVELOPMENT PLANS - PIPELINES  
 LOT 6, FOREST VIEW ESTATES FILING NO 4

LIMITS OF DISTURBANCE



LEGEND

MATCH LINE	---
CENTER LINE	---
CONTROL LINE	---
PROPERTY OR R/W LINE	---
EASEMENT LINE	---
STREET MONUMENT LINE	---
WIRE FENCE	---
CHAIN LINK FENCE	---
BARBED WIRE FENCE	X---
CONTOUR LINE	---4250---
UNDERGROUND ELECTRIC	---(uge)---
OVERHEAD ELECTRIC	---(ohe)---
ELECTRIC BOX	(E)
ELECTRIC MANHOLE	(E)
ELECTRIC METER	(E)
GAS LINE	---(g)---
GAS VALVE	(G)
GAS METER	(G)
IRRIGATION LINE	---IRR---
SANITARY SEWER LINE	---SS---
SANITARY SEWER CLEANOUT	(S)
SANITARY SEWER MANHOLE	(S)
SECONDARY WATER LINE	---SW---
SECONDARY WATER VALVE	(W)
SECONDARY WATER VAULT	(W)
STORM DRAIN LINE	---SD---
STORM DRAIN CATCH BASIN	(D)
STORM DRAIN INLET(S)	(D)
STORM DRAIN COMBO BOX	(D)
STORM DRAIN MANHOLE	(D)
STORM DRAIN CLEANOUT BOX	(D)
STORM DRAIN VAULT	(D)
CULVERT	SD
TELEPHONE CABLE	---COMM---
TELEPHONE BOX	(T)
TELEPHONE MANHOLE	(T)
TELEPHONE POST	(T)
WATER LINE	---PW---
FIRE HYDRANT	(F)
FIRE RISER	(F)
WATER VALVE	(W)
WATER AIR RELEASE VALVE	(W)
WATER METER	(W)
UTILITY POLE & ANCHOR	(OHE)
POWER POLE	(OHE)
STREET LIGHT	(L)
LIGHT	(L)
ASPHALT PAVING	---
CURB & GUTTER	---
SIDEWALK	---
RAILROAD TRACKS	---
GUARD RAIL	---
SIGN	---
STRUCTURE	---
LANDSCAPING (TREES ETC.)	---
SECTION CORNER	12 11 4 3
MONUMENT	(M)
BENCH MARK	(B)
SURVEY CONTROL POINT	CP800



LEGEND

(VTC)	VEHICLE TRACKING CONTROL
(SF)	SILT FENCE
(ECB)	EROSION CONTROL BLANKET
(CD)	ROCK CHECK DAM
(LOC)	LIMIT OF CONSTRUCTION
(CWA)	CONCRETE WASH AREA
(SSA)	STABILIZED STAGING AREA
(TOP)	TEMPORARY OUTLET PROTECTION
(ST)	SEDIMENT TRAP

PHASE

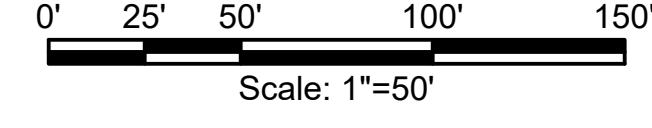
(INITIAL)	INITIAL
(FINAL)	FINAL
(INTERIM)	INTERIM
(FLOW)	FLOW
(SEDIMENT TRAP)	INTERIM

GENERAL CONSTRUCTION NOTES:

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GRAPHIC SCALE



PCD FILE NO. PPR-21-030

NO.	REVISIONS	BY	DATE

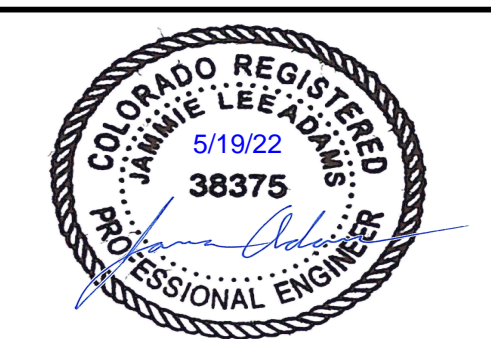
DRAWN	S. CALE
DESIGNED	J. ADAMS
APPROVED	J. ADAMS
QA	W. KOGER

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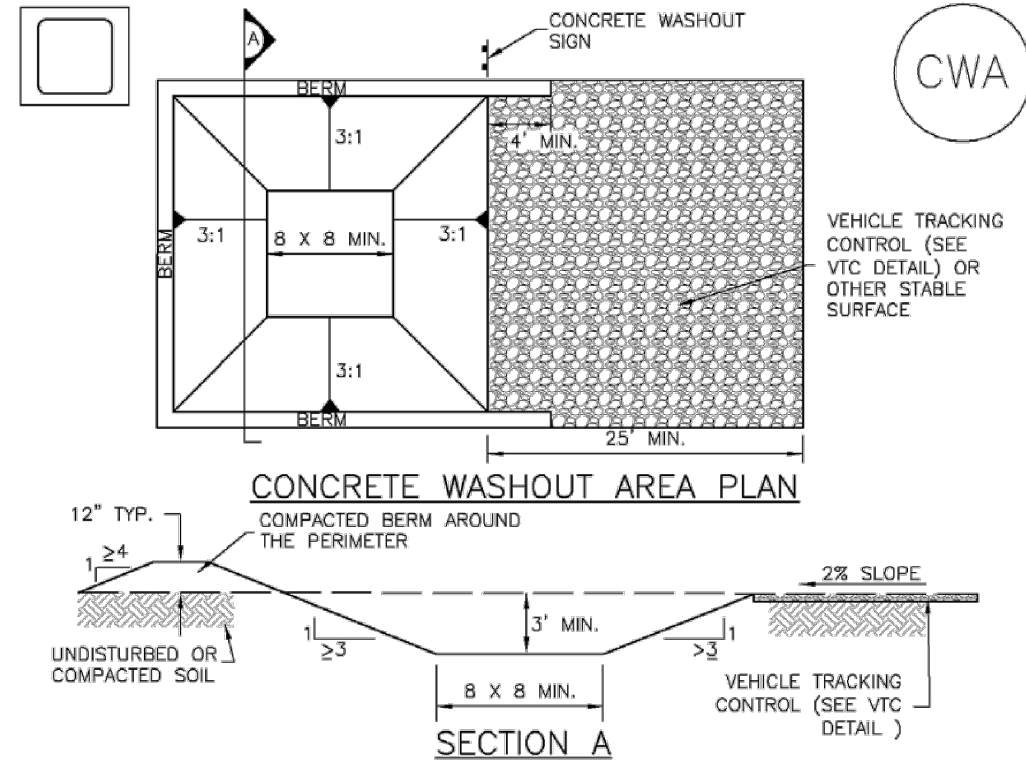
**TOWN OF MONUMENT WATERLINE  
 GRADING AND EROSION CONTROL PLAN  
 PIPELINE ALIGNMENTS**  
 STA 300+00 TO STA 308+14

PROJECT NO:	04-20-0153
SHEET NO:	22
DATE:	NOV, 2021
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# TOWN OF MONUMENT - WATERLINE SITE DEVELOPMENT PLANS LOT 6, FOREST VIEW ESTATES FILING NO. 4

## Concrete Washout Area (CWA) MM-1



CWA-1. CONCRETE WASHOUT AREA

**CWA INSTALLATION NOTES**

- SEE PLAN VIEW FOR: -CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

## Concrete Washout Area (CWA) MM-1

**CWA MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)  
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

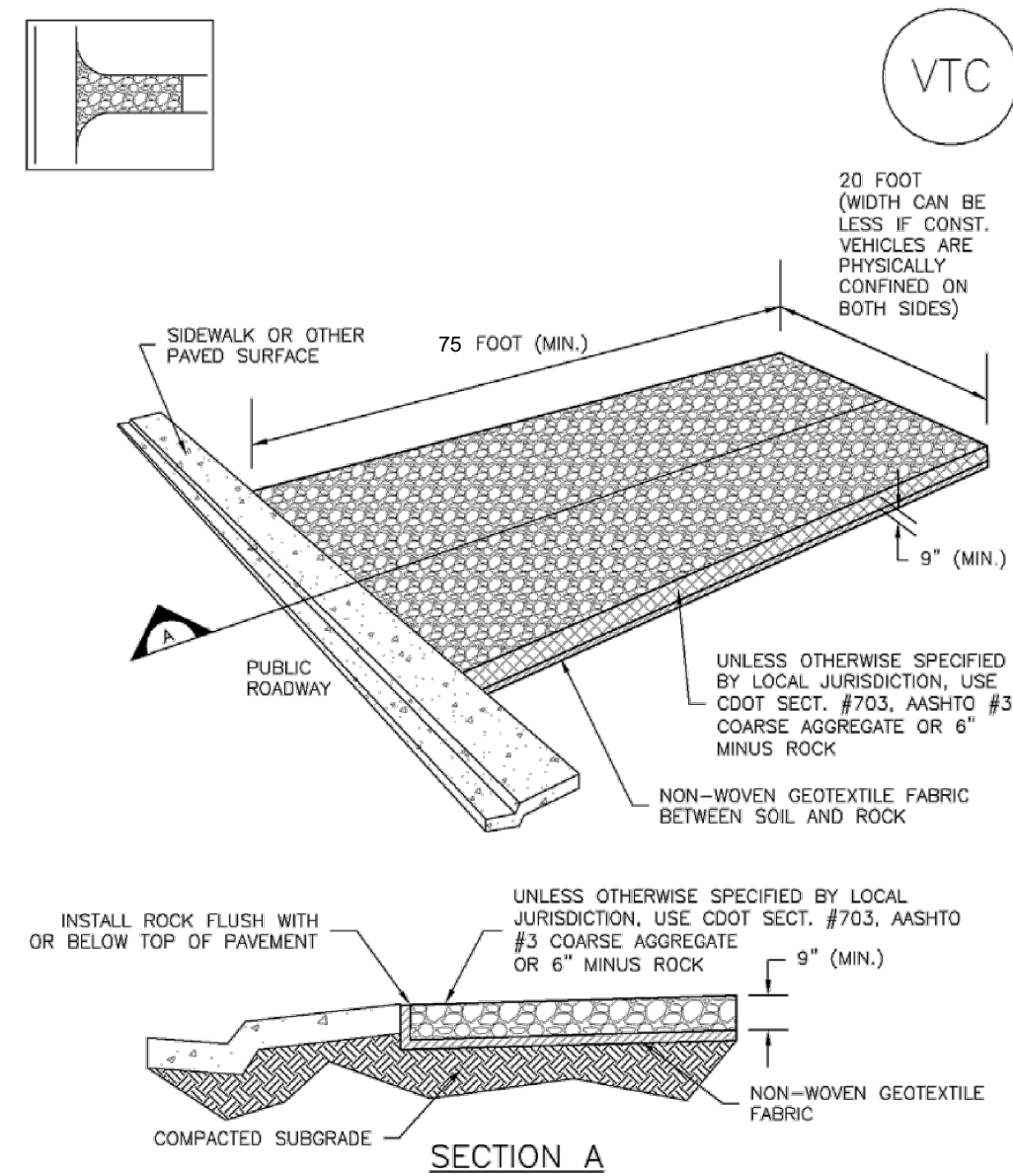
CWA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

## STANDARD NOTES FOR GRADING AND EROSION CONTROL PLANS

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY NINYO & MOORE DATED NOVEMBER 18, AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
WATER QUALITY CONTROL DIVISION  
WQCD - PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT

## Vehicle Tracking Control (VTC) SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

## Vehicle Tracking Control (VTC) SM-4

**STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**

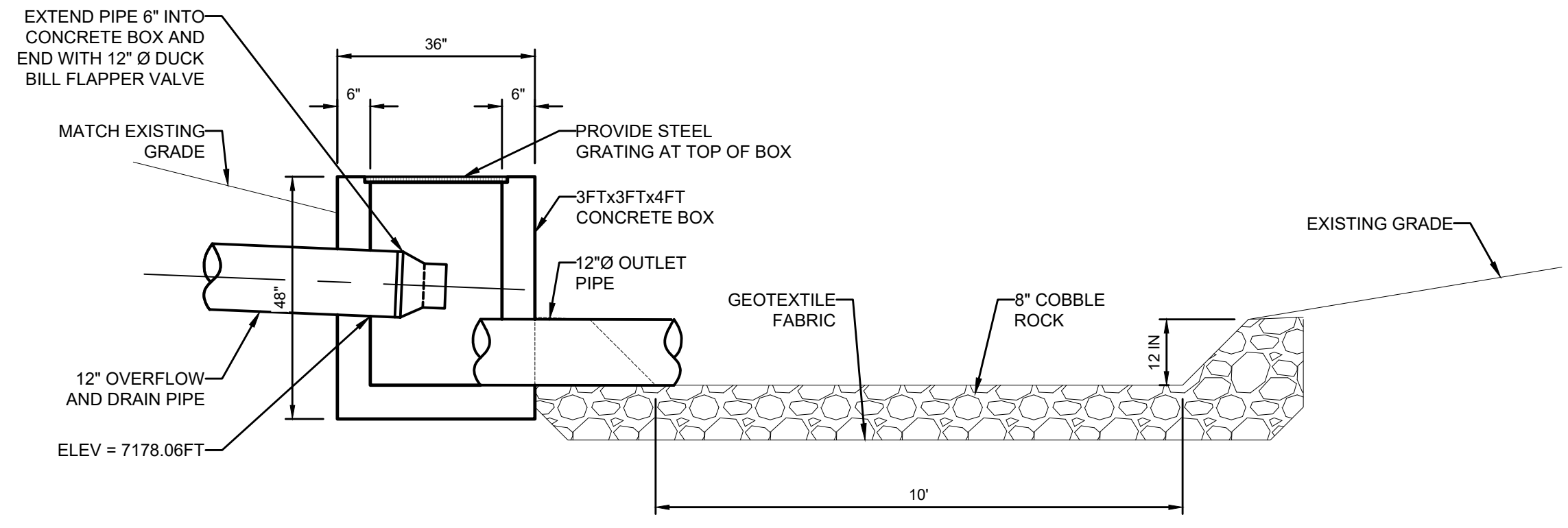
- SEE PLAN VIEW FOR: -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). -TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
- CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
- A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, MSHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

**STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.  
(DETAILS ADAPTED FROM CITY OF BROWFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

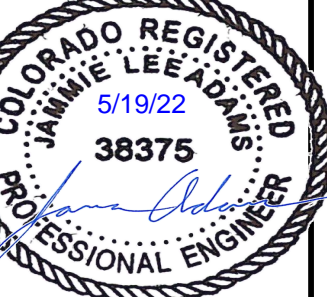
VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010



RIPRAP AT PIPE OUTLET  
SCALE: 3/4" = 1'-0"

NO.	REVISIONS	BY	DATE

**FORSGREN Associates Inc.**  
 56 INVERNNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
 PH: 720.232.6644



PROJECT NO.	S. SCALE
04-20-0163	
DRAWN	DESIGNED
J. ADAMS	J. ADAMS
APPROVED	DATE
W. KOGER	



## TOWN OF MONUMENT WATERLINE GRADING AND EROSION CONTROL DETAILS

SHEET NO:	23
DATE:	FEB, 2022
PAGE NO:	23 OF 25

PCD FILE NO. PPR-21-030

**TOWN OF MONUMENT - WATERLINE  
SITE DEVELOPMENT PLANS  
LOT 6, FOREST VIEW ESTATES FILING NO. 4**

**GENERAL CONSTRUCTION NOTES:**

- PARKING DIMENSIONS ARE TO FACE OF CURB.
- CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY (PCD) AND PRECONSTRUCTION CONFERENCE IS HELD WITH PCD INSPECTIONS.
- ANY UNPAVED AREA THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESEED. SEE BELOW FOR GRASS SEED MIXES FOR EL PASO COUNTY.

**Recommended El Paso County Grass Seed Mixes**

Grass mix for quick revegetation – all sites:

Grass:	Variety	PLS lbs per acre
Crested Wheat Grass	Ephraim or HyCrest	4.0
Perennial Rye	Linn	2.0
Western Wheatgrass	Barton	3.0
Smooth Brome Grass	Lincoln or Manchar	5.0
Sideoats Grama	El Reno	2.5
<b>Total:</b>		<b>16.5</b>

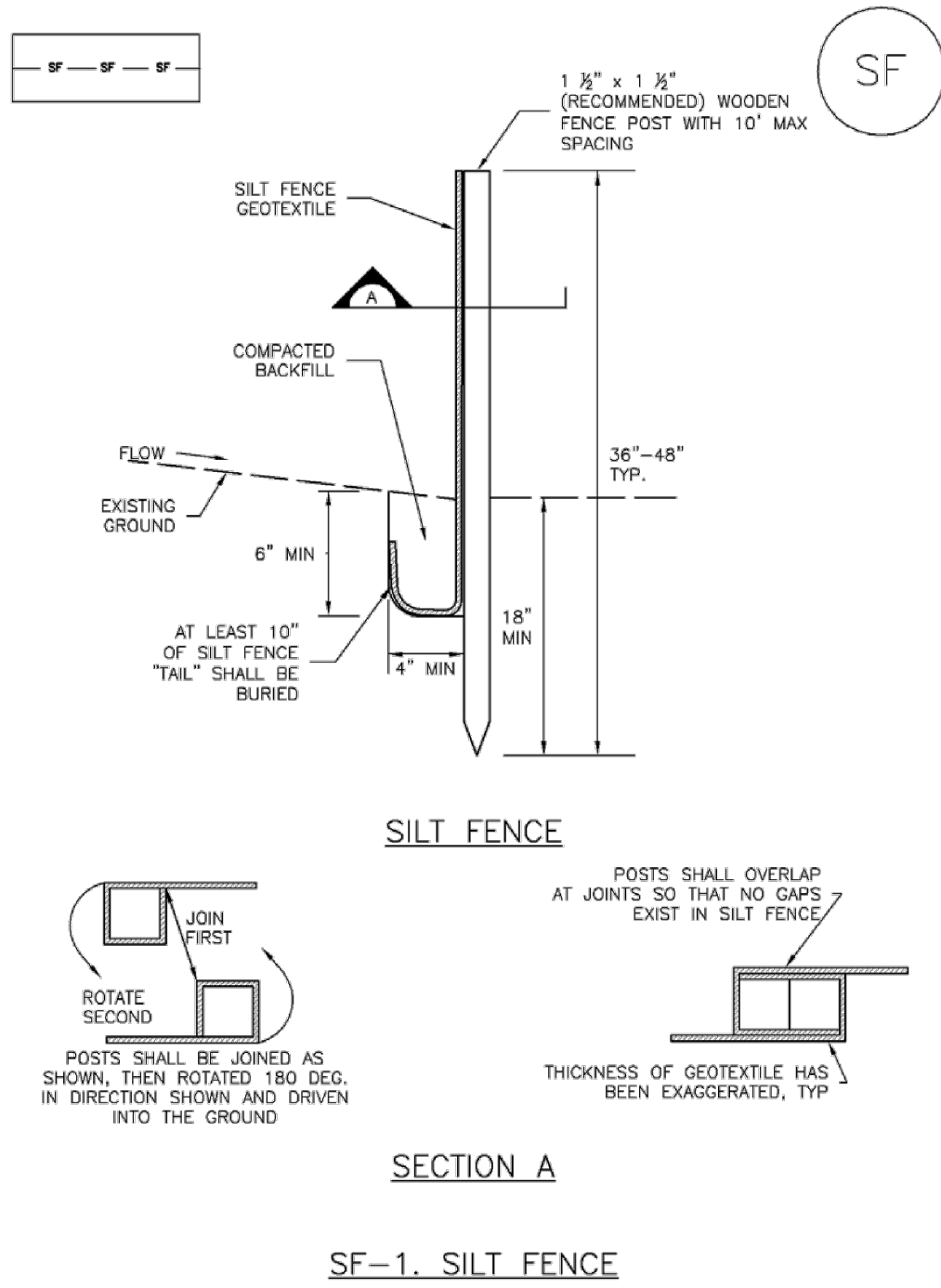
Grass mix for heavier soil areas:

Grass:	Variety	PLS lbs per acre
Crested Wheat Grass	Ephraim	3.0
Slender Wheat Grass	Sodar	2.5
Western Wheatgrass	Barton	5.0
Smooth Brome Grass	Lincoln or Manchar	4.0
Sideoats Grama	El Reno	3.0
<b>Total:</b>		<b>17.5</b>

Grass mix for sandy soils:

Grass:	Variety	PLS lbs per acre
Sideoats Grama	El Reno	3.0
Western Wheatgrass	Barton	2.5
Slender Wheat Grass	Native	2.0
Little Bluestem	Pastura	2.0
Sand Dropseed	Native	0.5
Switch Grass	Nebraska 28	3.0
Weeping Love Grass	Morpha	1.0
Optional: Perennial Rye		2.0
<b>Total:</b>		<b>14-16</b>

**Silt Fence (SF) SC-1**



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**SC-1 Silt Fence (SF)**

**SILT FENCE INSTALLATION NOTES**

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
- A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTATION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
- SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
- AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

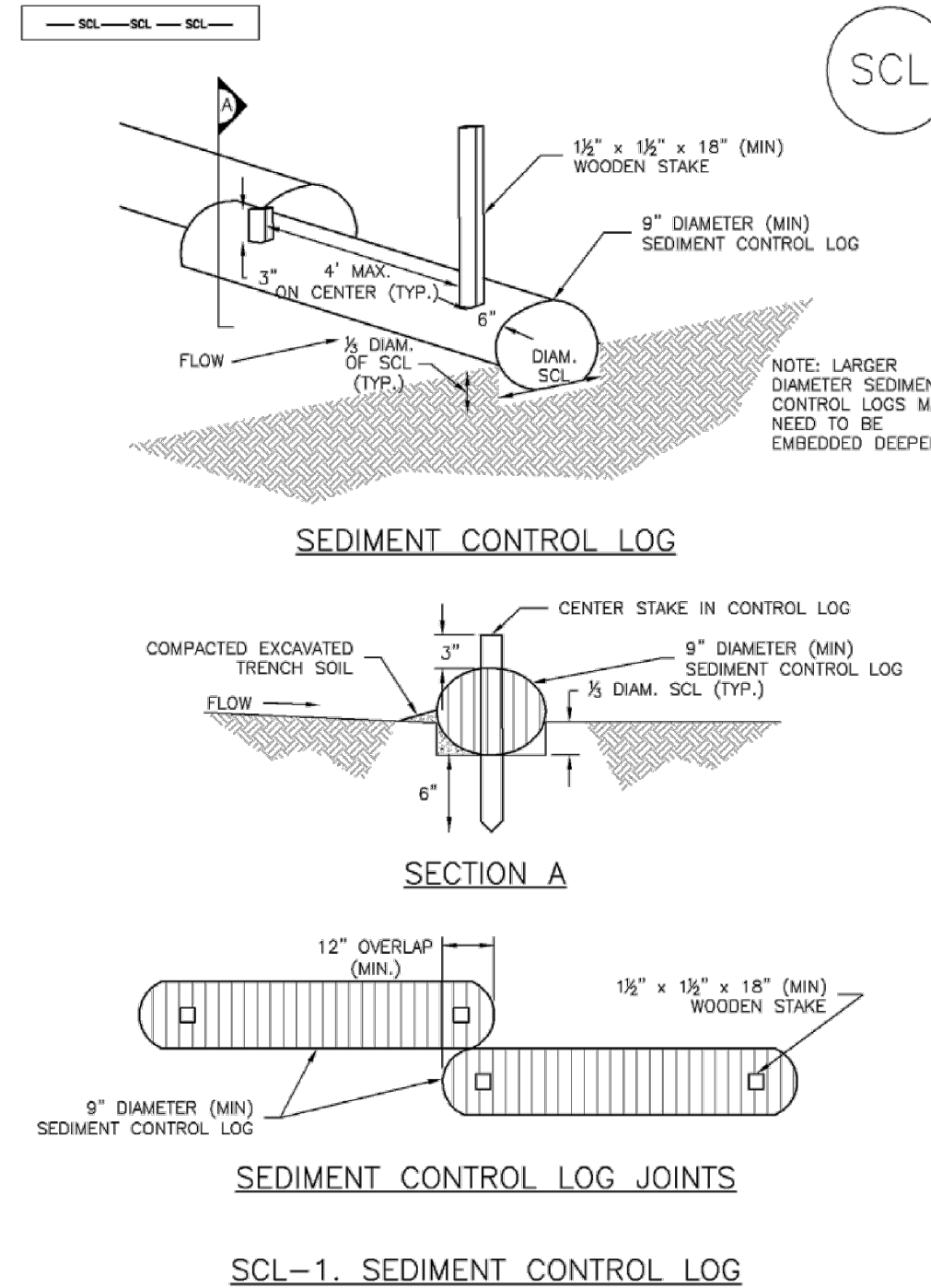
**SILT FENCE MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
- WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEED, AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)  
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

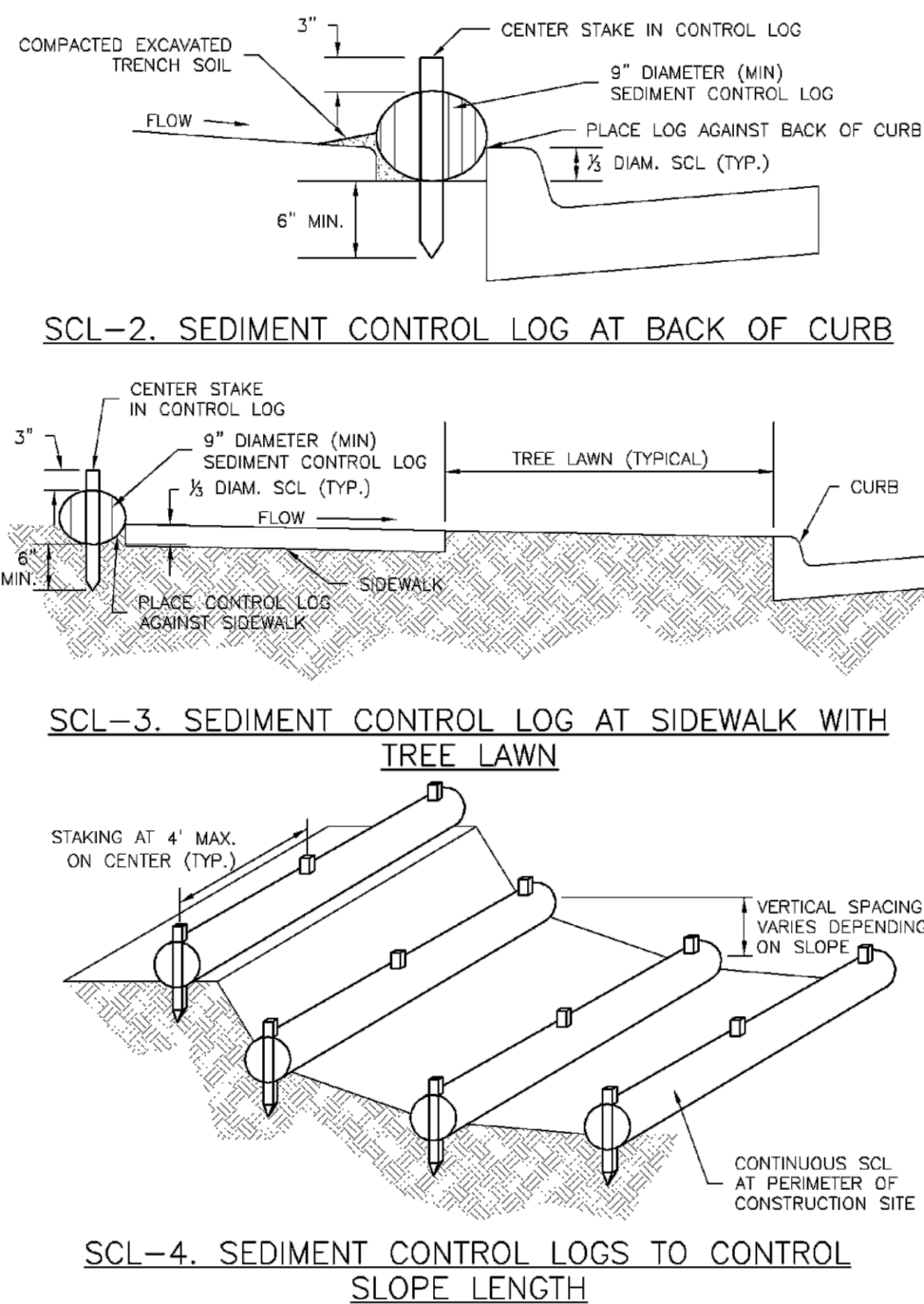
SC-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

**Sediment Control Log (SCL) SC-2**



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**SC-2 Sediment Control Log (SCL)**



SC-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

**Revegetation Chapter 14**

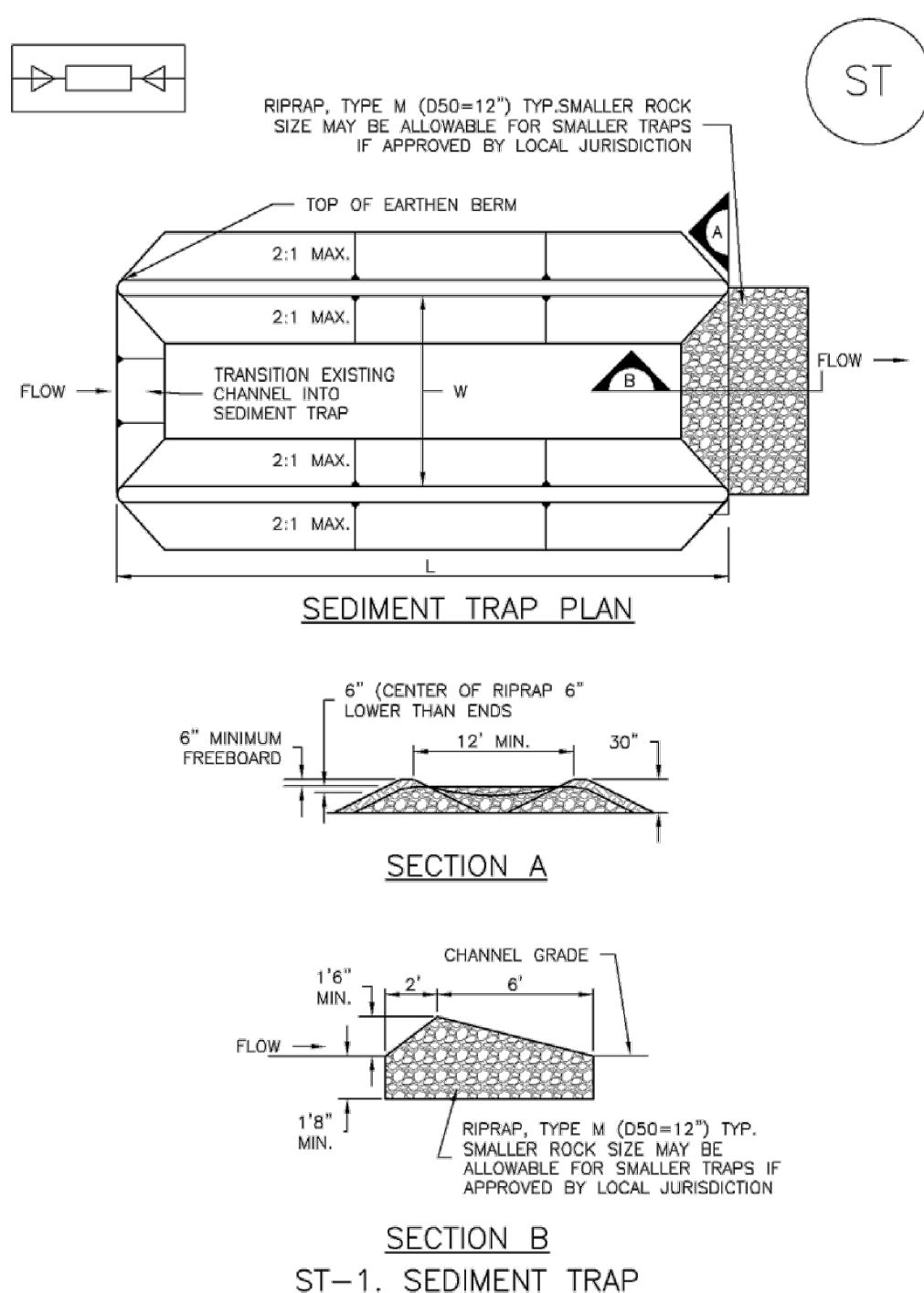
**Table 14-10. Recommended Seed Mix for Transition Areas<sup>1</sup>**

Common Name (Variety)	Scientific Name	Growth Season	Growth Form	Seeds/Lb	Lbs PLS/Acre Drilled	Lbs PLS/Acre Broadcast or Hydroseeded
Sheep fescue (Durar)	<i>Festuca ovina</i>	Cool	Bunch	680,000	1.3	2.6
Western wheatgrass (Arriba)	<i>Pascopyrum smithii</i>	Cool	Sod	110,000	7.9	15.8
Alkali sacaton	<i>Spolobolus airoides</i>	Warm	Bunch	1,758,000	0.5	1.0
Slender wheatgrass	<i>Elymus trachycaulus</i>	Cool	Bunch	159,000	5.5	11.0
Canadian bluegrass (Ruebens) <sup>1</sup>	<i>Poa compressa</i>	Cool	Sod	2,500,000	0.3	0.6
Switchgrass (Pathfinder)	<i>Panicum virgatum</i>	Warm	Sod/Bunch	389,000	1.3	2.6
Annual rye	<i>Lolium multiflorum</i>	Cool	Cover crop	227,000	10.0	20.0
				<b>TOTAL</b>	<b>26.8</b>	<b>53.6</b>
<b>Wildflowers</b>						
Blanket flower	<i>Faillardia aristata</i>	---	---	132,000	0.25	0.50
Prairie coneflower	<i>Ratibida columnaris</i>	---	---	1,230,000	0.20	0.40
Purple prairie clover	<i>Petalostemum purpurea</i>	---	---	210,000	0.20	0.40
Gayfeather	<i>Liatris punctata</i>	---	---	138,000	0.06	0.12
Flax	<i>Linum lewisii</i>	---	---	293,000	0.20	0.40
Penstemon	<i>Penstemon strictus</i>	---	---	592,000	0.20	0.40
Yarrow	<i>Achillea millefolium</i>	---	---	2,770,000	0.03	0.06
				<b>TOTAL</b>	<b>11.4</b>	<b>2.28</b>

<sup>1</sup>For side slopes or between wet and dry areas.  
<sup>2</sup>Substitute 1.7 lbs PLS/acre of inland saltgrass (*Distichlis spicata*) in salty soils.

14-22 City of Colorado Springs Drainage Criteria Manual, Volume 1 May 2014

**SC-8 Sediment Trap (ST)**



ST-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

**Sediment Trap (ST) SC-8**

**SEDIMENT TRAP INSTALLATION NOTES**

- SEE PLAN VIEW FOR:  
-LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
- ONLY USE FOR DRAINAGE AREAS LESS THAN 1 ACRE.
- SEDIMENT TRAPS SHALL BE INSTALLED PRIOR TO ANY UPGRADE LAND-DISTURBING ACTIVITIES.
- SEDIMENT TRAP BERM SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION. THE BERM SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- SEDIMENT TRAP OUTLET TO BE CONSTRUCTED OF RIPRAP, TYPE M (D50=12") TYP. SMALLER ROCK SIZE MAY BE ALLOWABLE FOR SMALLER TRAPS IF APPROVED BY LOCAL JURISDICTION.
- THE TOP OF THE EARTHEN BERM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE RIPRAP OUTLET STRUCTURE.
- THE ENDS OF THE RIPRAP OUTLET STRUCTURE SHALL BE A MINIMUM OF 6" HIGHER THAN THE CENTER OF THE OUTLET STRUCTURE.

**SEDIMENT TRAP MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- REMOVE SEDIMENT ACCUMULATED IN TRAP AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN THE SEDIMENT DEPTH REACHES 1/2 THE HEIGHT OF THE RIPRAP OUTLET.
- SEDIMENT TRAPS SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN SEDIMENT TRAPS ARE REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEED, AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)  
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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NO.	REVISIONS	BY	DATE

**FORSGREN Associates, Inc.**

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112  
PH: 720.232.6644

COLORADO REGISTERED PROFESSIONAL ENGINEER  
JAMIE L. LEADERS  
5/19/22  
38375

PROJECT NO: 04-20-0153  
DRAWN: S. CALE  
DESIGNED: J. ADAMS  
APPROVED: J. ADAMS  
DATE: 04/08

**TOWN OF MONUMENT**

**GRADING AND EROSION CONTROL DETAILS**

SHEET NO: **24**

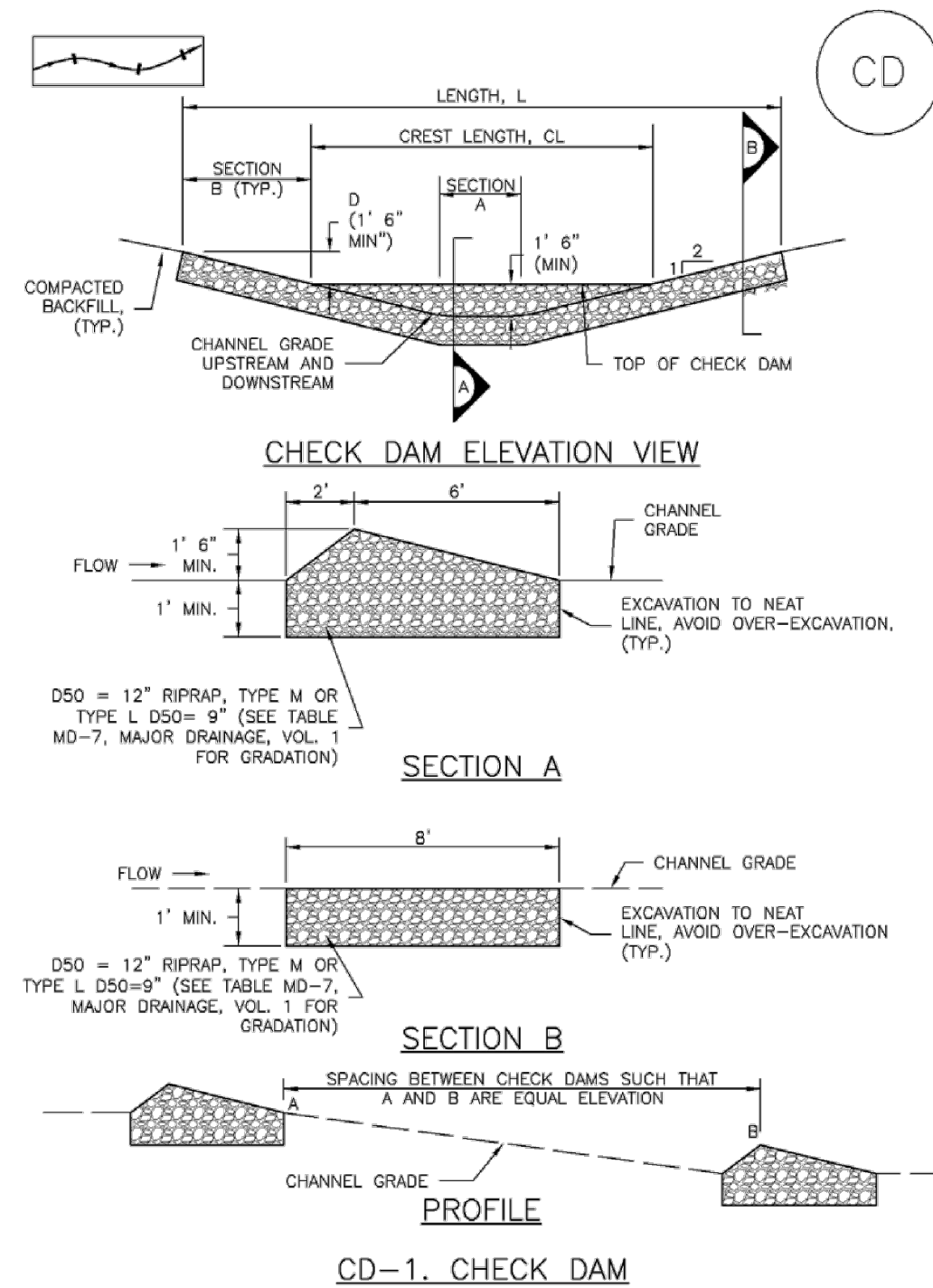
DATE: FEB, 2022

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# TOWN OF MONUMENT - WATERLINE SITE DEVELOPMENT PLANS LOT 6, FOREST VIEW ESTATES FILING NO. 4

## Check Dams (CD) EC-12



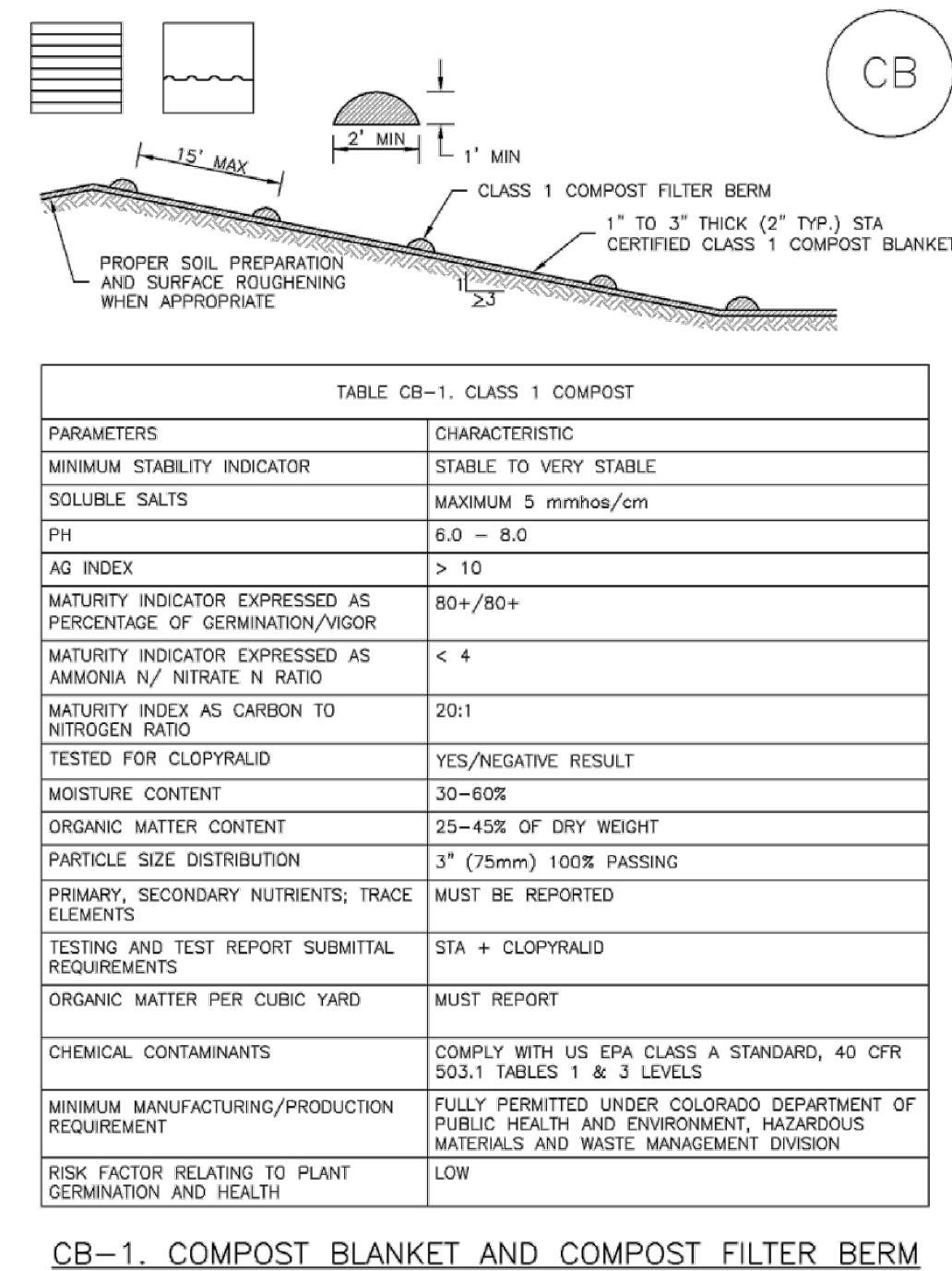
November 2010 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 CD-3

## Check Dams (CD) EC-12

- CHECK DAM INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
    - LOCATION OF CHECK DAMS.
    - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
    - LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).
  - CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.
  - RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").
  - RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'.
  - THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.
- CHECK DAM MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
  - CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
  - WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL, DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION. (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

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## Compost Blanket and Filter Berm (CB) EC-5



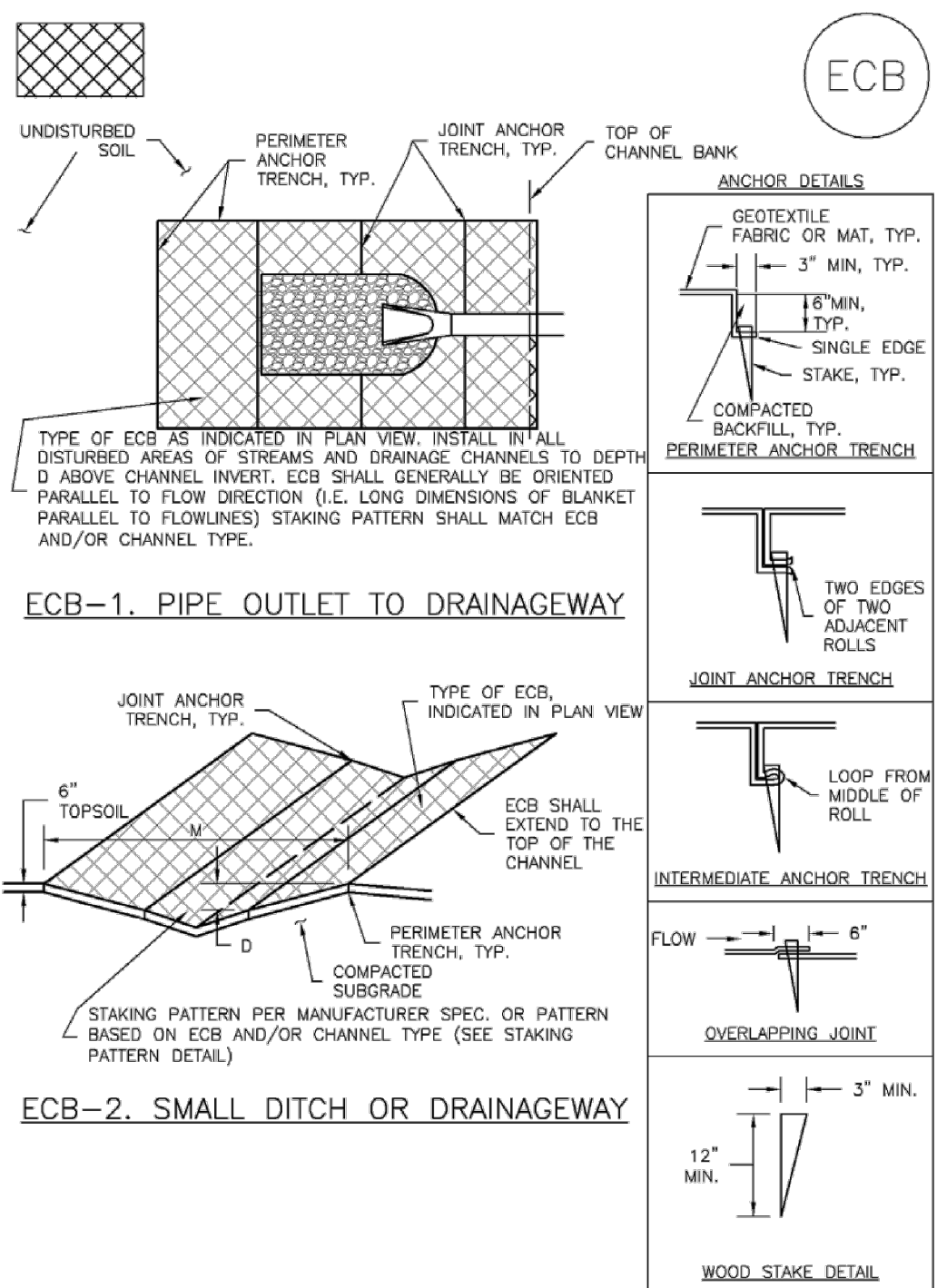
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## Compost Blanket and Filter Berm (CB) EC-5

- COMPOST FILTER BERM AND COMPOST BLANKET INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
    - LOCATION OF COMPOST FILTER BERM(S).
    - LENGTH OF COMPOST FILTER BERM(S).
  - COMPOST BERMS AND BLANKETS MAY BE USED IN PLACE OF STRAW MULCH OR GEOTEXTILE FABRIC IN AREAS WHERE ACCESS TO LANDSCAPING IS DIFFICULT DUE TO LANDSCAPING OR OTHER OBJECTS OR IN AREAS WHERE A SMOOTH TURF GRASS FINISH IS DESIRED.
  - FILTER BERMS SHALL RUN PARALLEL TO THE CONTOUR.
  - FILTER BERMS SHALL BE A MINIMUM OF 1 FEET HIGH AND 2 FEET WIDE.
  - FILTER BERMS SHALL BE APPLIED BY PNEUMATIC BLOWER OR BY HAND.
  - FILTER BERMS SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL AND NOT IN AREAS OF CONCENTRATED FLOW.
  - COMPOST BLANKETS SHALL BE APPLIED AT A DEPTH OF 1 - 3 INCHES (TYPICALLY 2 INCHES). FOR AREAS WITH EXISTING VEGETATION THAT ARE TO BE SUPPLEMENTED BY COMPOST, A THIN 0.5-INCH LAYER MAY BE USED.
  - SEEDING SHALL BE PERFORMED PRIOR TO THE APPLICATION OF COMPOST. ALTERNATIVELY, SEED MAY BE COMBINED WITH COMPOST AND BLOWN WITH THE PNEUMATIC BLOWER.
  - WHEN TURF GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES SHALL TAKE PLACE PRIOR TO COMPOST APPLICATION.
  - COMPOST SHALL BE A CLASS 1 COMPOST AS DEFINED BY TABLE CB-1.
- COMPOST FILTER BERM MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - COMPOST BERMS AND BLANKETS SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RILLING IN THE COMPOST SURFACE OCCURS. (DETAILS ADAPTED FROM ARAPAHOE COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

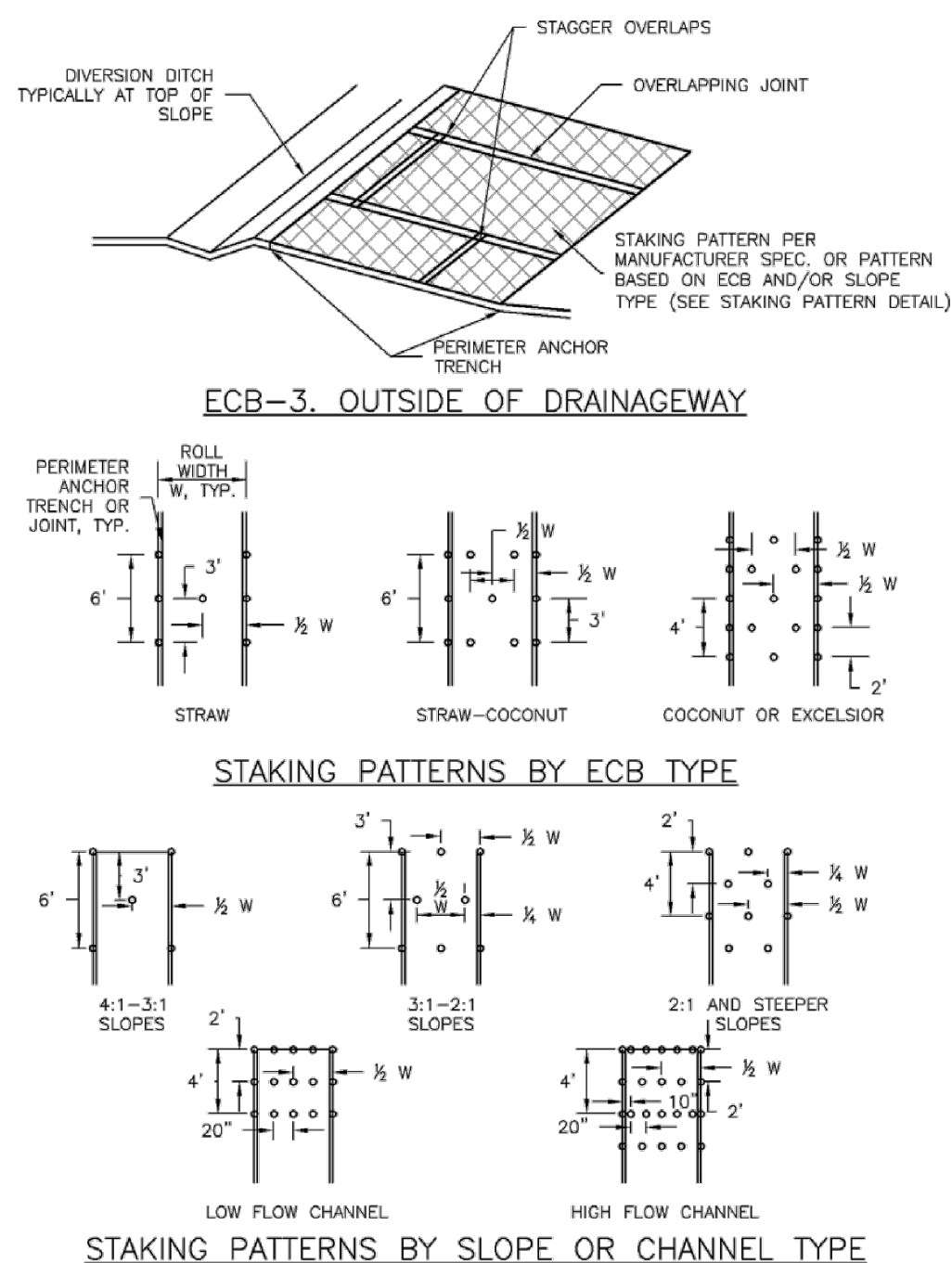
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## Rolled Erosion Control Products (RECP) EC-6



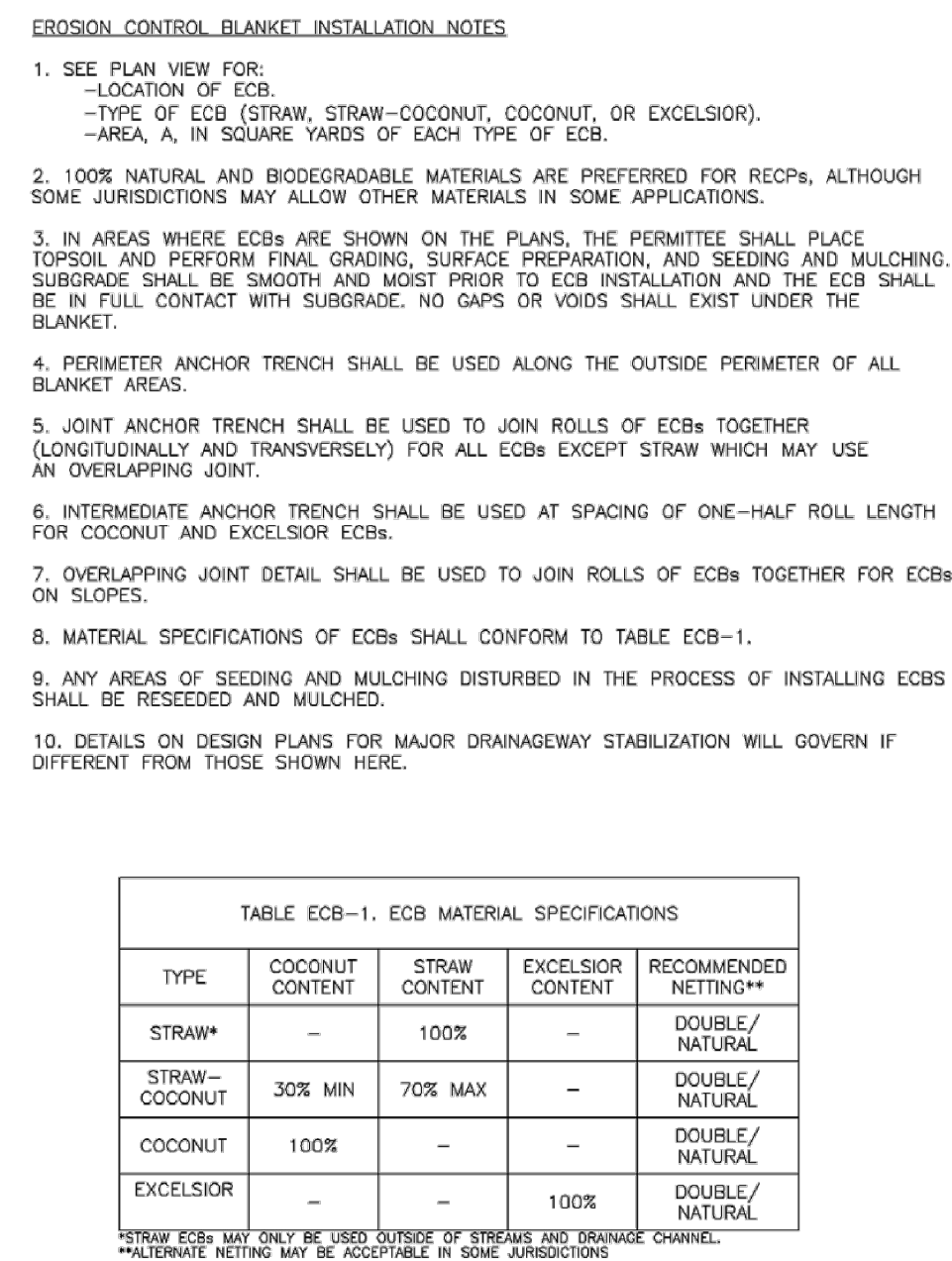
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## Rolled Erosion Control Products (RECP) EC-6



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## Rolled Erosion Control Products (RECP) EC-6



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## Rolled Erosion Control Products (RECP) EC-6

- EROSION CONTROL BLANKET MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
  - ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED. (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

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PROJECT NO. 04-20-0153

DRAWN S. CALE

DESIGNED J. ADAMS

APPROVED J. ADAMS

DATE 5/19/22

SCALE

REVISIONS

NO.

BY

DATE

FORSGREN Associates, Inc.

56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112

PH: 720.232.6644

COLORADO REGISTERED PROFESSIONAL ENGINEER

JAMIE LEEDS

5/19/22

38375

TOWN OF MONUMENT WATERLINE

GRADING AND EROSION CONTROL DETAILS

SHEET NO. 25

DATE: FEB, 2022

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