

WOODMOOR WATER & SANITATION DISTRICT NO. 1

WOODMOOR WELL NO. 22

TRANSMISSION LINE

SWMP, GRADING AND EROSION CONTROL PLAN

WOODMOOR
WATER & SANITATION DISTRICT NO. 1

MARCH 2024

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AT LEAST (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 OF APPLICATION MATERIALS CONTACT:

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

ENGINEER'S STATEMENT

THIS SWMP/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.

Jessie J. Shaffer 3/25/24
JESSIE J. SHAFFER, P.E. DATE

OWNER'S/APPLICANT'S STATEMENT

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

Joshua Palmer 3/25/24
OWNER SIGNATURE DATE

EL PASO COUNTY

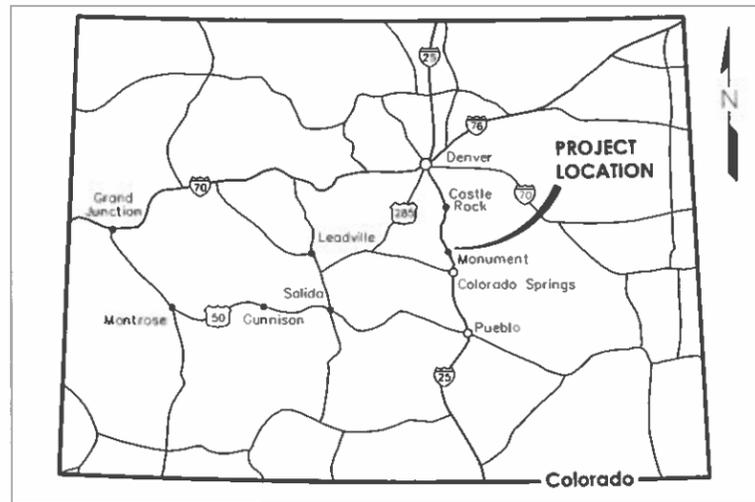
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH THE COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY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

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

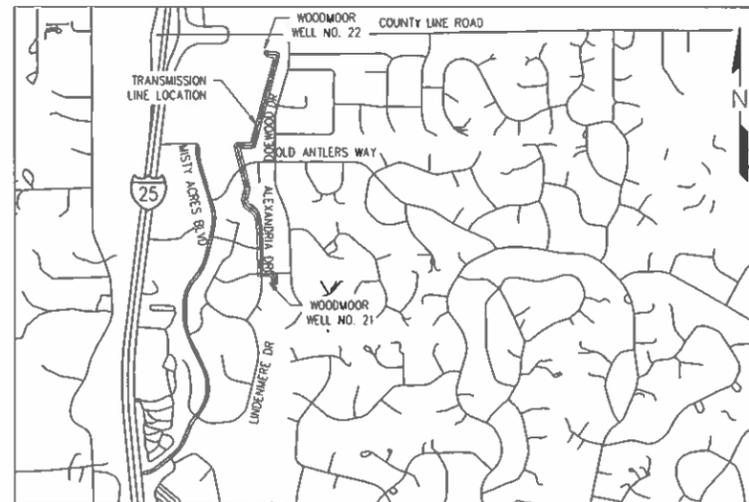
IN ACCORDANCE WITH E.C.M. SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT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

Joshua Palmer, P.E. _____ DATE _____
County Engineer/ECM Administrator

PCD File No. CDR241



LOCATION MAP



VICINITY MAP

GENERAL ABBREVIATIONS

ABAN	ABANDON	OHE	OVERHEAD ELECTRICAL
AL	ALUMINUM	OHT	OVERHEAD TELEPHONE
ALT	ALTERNATE		
APPROX	APPROXIMATE	PC	POINT OF CURVATURE
AIR/VAC MH	AIR/VACUUM MANHOLE RELEASE VALVE	PERM	PERMANENT
ASPH	ASPHALT	PIP	PLASTIC IRRIGATION PIPING
AWWA	AMERICAN WATER WORKS ASSOCIATION	PMJM	PREBLE'S MEADOW JUMPING MOUSE
		PRV	PRESSURE REDUCING VALVE
BC	BARE COPPER	PSI	POUNDS PER SQUARE INCH
BLDG	BUILDING	PVC	POLYVINYL CHLORIDE
BH	BORE HOLE	PT	POINT OF TANGENCY
BM	BENCH MARK		
BOT	BOTTOM	RCP	REINFORCED CONCRETE PIPE
BW	BACKWASH	RED	REDUCER
		REQD	REQUIRED
C	CONDUIT	ROW	RIGHT OF WAY
CF	CUBIC FEET	RSNTS	RESTRAINTS
CL	CENTER LINE	RW	RAW WATER LINE
CMP	CORRUGATED METAL PIPE		
CONC	CONCRETE	(S)	SOUTH
CONSTR	CONSTRUCTION	(SE)	SOUTHEAST
CU FT	CUBIC FEET	(SW)	SOUTHWEST
		SCH	SCHEDULE
DEFL	DEFLECTION	SF	SILT FENCE
DIA, Ø	DIAMETER	SFP	SOUTH FILTER PLANT
DIP	DUCTILE IRON PIPE	SIM	SIMILAR
DWG	DRAWING	SS	SANITARY SEWER
		SST	STAINLESS STEEL
E	EASTING	SPEC	SPECIFICATION
(E)	EAST	SO	SQUARE
EL	ELEVATION	SQ FT	SQUARE FOOT
ELEC	ELECTRICAL	SQ IN	SQUARE INCH
ENT	ENTRANCE	SQ YD	SQUARE YARD
EOA	EDGE OF ASPHALT	STA	STATION
ESMT	EASEMENT	STD	STANDARD
EST	ESTIMATE	STL	STEEL
EXST	EXISTING	SVC	SERVICE
		THD	THREAD
FA	FLANGE ADAPTER	TOT	TOTAL
FH	FIRE HYDRANT	TYP	TYPICAL
FL	FLOWLINE	TH	TEST HOLE
FLG	FLANGE	THK	THICK
FM	FORCE MAIN	TRANS	TRANSMISSION
FO	EXIST UNDERGROUND FIBER OPTIC	TV	EXIST UNDERGROUND TV
FPVC	FUSIBLE POLYVINYL CHLORIDE		
FT	FEET	UE	EXISTING UNDERGROUND ELECTRIC
		UT	UNDERGROUND TELEPHONE
G	GAS PIPELINE	VCP	VITRIFIED CLAY PIPE
GB	GRADE BREAK	VERT	VERTICAL
GV	GATE VALVE		
		W	WATER
HDD	HORIZONTAL DIRECTIONAL DRILL	(W)	WEST
HDPE	HIGH DENSITY POLYETHYLENE	W/	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HYD	HYDRANT	WV	WATER VALVE
		WWS	WOODMOOR WATER & SANITATION DISTRICT
ID	INSIDE DIAMETER		
INV	INVERT ELEVATION	X SECT	CROSS SECTION
IPS	IRON PIPE SIZE		
IRR	IRRIGATION		
LF	LINEAR FOOT		
M	METERS		
MAX	MAXIMUM		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MJ	MECHANICAL JOINT		
MPA	MOUSE PROTECTED AREA		
N	NORTHING		
(N)	NORTH		
(NE)	NORTHEAST		
(NW)	NORTHWEST		
NPT	NATIONAL PIPE THREAD		
NTS	NOT TO SCALE		
NPW	NON-POTABLE WATER		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		

GENERAL NOTES

- ALL MATERIALS AND INSTALLATION PROCEDURES WILL COMPLY WITH THE PROJECT MANUAL.
- IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE PROJECT MANUAL, CONSULT THE OWNER PRIOR TO COMMENCING WORK.
- ALL HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE SHOWN IN APPROXIMATE WAY ONLY, UNLESS OTHERWISE NOTED, BASED ON THE INFORMATION PROVIDED BY OTHERS. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THE DRAWINGS WHICH PRESENTLY EXIST IN THE AREA OF CONSTRUCTION. THE ENGINEER AND/OR OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN ON THE PLANS.
- CONTRACTOR SHALL NOTIFY COLORADO 811 FOR LOCATION AND MARKING OF PUBLIC UTILITIES A MINIMUM OF 48 HRS PRIOR TO DIGGING.
- THE CONTRACTOR SHALL CONTACT/NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED AROUND UTILITIES SHALL BE PERFORMED AND INSPECTED ACCORDING TO THE REQUIREMENTS OF THE UTILITY OWNER.
- CONTRACTOR SHALL POthOLE AND FIELD VERIFY LOCATION, PIPE TYPE, PIPE SIZE, ELEVATIONS, ETC. OF ALL EXISTING UTILITIES AND FEATURES BEING MODIFIED, CONNECTED TO, OR INCORPORATED IN THE WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY AND UTILITY SERVICE CONNECTIONS (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM UTILITY OWNER AND ENGINEER BEFORE RELOCATING ANY ENCOUNTERED UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR SERVICE CONNECTIONS AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES. CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT.
- THE CONTRACTOR SHALL COORDINATE AND PROVIDE FOR THE PROTECTION OF CONFLICTING UTILITIES. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- PROTECT IN PLACE THE EXISTING PIPING TO REMAIN. COORDINATE SCHEDULING OF TIE-INS WITH OWNER IN ORDER TO MINIMIZE DISTURBANCE.
- MAINTAIN 10 FEET MINIMUM HORIZONTAL CLEARANCE AND 18 INCHES MINIMUM VERTICAL CLEARANCE BETWEEN DOMESTIC WATER AND NON-POTABLE WATER LINES UNLESS OTHERWISE NOTED. CONCRETE ENCASE THE LOWER ELEVATION PIPE WHERE MINIMUM CLEARANCES CAN NOT BE MET.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT TO WHICH REMOVAL AND REPLACEMENT OF CONCRETE, ASPHALT, AND/OR BASE COURSE, ETC. IS REQUIRED TO PERFORM THE WORK SHOWN. FURTHERMORE, ANY COSTS ASSOCIATED OR ARISING FROM ADDITIONAL REMOVAL AND REPLACEMENT OVER AND ABOVE THE QUANTITIES AS DEFINED BY THE LIMITING PAYMENT QUANTIFICATION NOTED, SHALL BE INCLUDED IN THE APPROPRIATE UNIT PRICES CONTAINED WITHIN THE BID FORM.
- REMOVE AND REINSTALL ANY TRAFFIC SIGNS, GUARDRAIL OR OTHER OBSTRUCTIONS AS REQUIRED. COORDINATE TIMING, TEMPORARY MEASURES, ETC. WITH ENTITY HAVING JURISDICTION. COSTS SHALL BE INCORPORATED WITHIN THE APPROPRIATE UNIT PRICES CONTAINED WITHIN THE BID FORM.
- UNLESS OTHERWISE SHOWN OR NOTED, CONTRACTOR SHALL NOT DISTURB ANY EXISTING FENCE UNLESS WRITTEN PERMISSION IS GRANTED BY THE OWNER OF THE FENCE TO PERFORM SUCH REMOVAL, REPLACEMENT, ALTERATION, ETC. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PAYING ALL COSTS, AT NO ADDITIONAL COST TO OWNER FOR SUCH REMOVAL, REPLACEMENT OR ALTERATION OF THE FENCE.
- COSTS ASSOCIATED WITH TRAFFIC CONTROL SHALL BE INCLUDED IN THE APPROPRIATE UNIT PRICES CONTAINED WITHIN THE BID FORM. TRAFFIC CONTROL SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE EL PASO COUNTY DEPARTMENT OF TRANSPORTATION REGULATIONS. THE CONTRACTOR SHALL ENSURE THAT ONE LANE OF TRAFFIC IS PROVIDED AT ALL TIMES.

EL PASO COUNTY PUBLIC WORKS: 719-520-6460

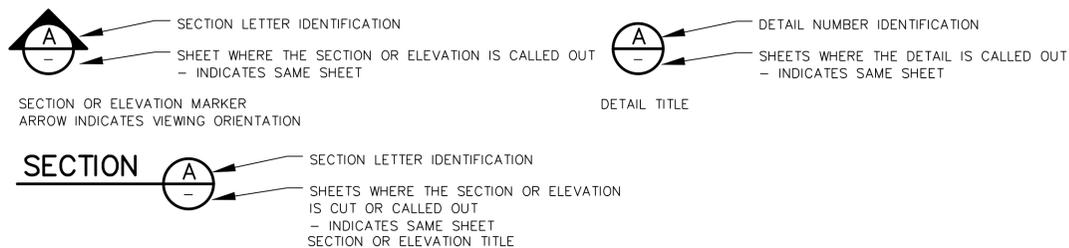
[HTTPS://PUBLICWORKS.ELPASOCO.COM/](https://publicworks.elpasoco.com/)

- ENSURE DRIVEWAY ACCESS REMAINS OPEN AND COORDINATE DRIVEWAY CONSTRUCTION TIMES WITH PROPERTY OWNER 1 WEEK MINIMUM PRIOR TO WORK COMMENCING
- ALL WORK TO REMAIN WITHIN DEPICTED RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS
- THE GENERAL GROUND CONFIGURATION AND CONTROL POINTS SHOWN ON THE DRAWINGS ARE AS FOUND OR SET BY FIELD SURVEY CONDUCTED BY BARRON LAND SURVEY COMPANY IN THE FIRST QUARTER OF 2023. THE INFORMATION SHOWN IS INTENDED TO REFLECT THE GENERAL GROUND CONFIGURATION AND FEATURES AT THE DATES OF SURVEY ONLY. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING GROUND CONFIGURATIONS AND INFORM HIMSELF OF THE CONDITIONS TO BE ENCOUNTERED DURING CONSTRUCTION.
- BENCHMARKS: ELEVATIONS ARE BASED UPON NGS BENCHMARK V 395 WITH ELEVATION 7,346.57 FT, NAVD88, USING NAD83 COORDINATE SYSTEM, COLORADO CENTRAL ZONE 0502. GEOID MODEL GEOID18

SURVEY CONTROL DATA				
POINT NO	NORTHING	EASTING	ELEVATION (NAVD88)	DESCRIPTION
150	1473268.88	3182983.73	7264.09	#4 REBAR W PLASTIC CAP "CONTROL POINT"
151	1471537.40	3182664.47	7299.64	#4 REBAR W PLASTIC CAP "CONTROL POINT"
152	1470163.47	3183137.33	7381.85	#4 REBAR W PLASTIC CAP "CONTROL POINT"

- REVEGETATE ALL AREAS DISTURBED BY CONSTRUCTION THAT LIE OUTSIDE OF DRIVEN ROAD SURFACES WITH APPROVED NATIVE SEED MIX OR SOD AS NOTED ON THE PLANS.
- ALL AREAS OF TRAIL DISTURBED BY CONSTRUCTION SHALL BE RECONSTRUCTED TO EXISTING OR BETTER CONDITIONS, TO INCLUDE SLOPE FOR DRAINAGE, COMPACTION, ETC.
- CONTRACTOR SHALL DISPOSE OF ALL SPOILS, CONCRETE, ASPHALT, CURB & GUTTER, ETC. OFF SITE AND IN A LEGAL MANNER AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL SCHEDULE REQUIRED TESTS WITH THE DISTRICT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO PERFORMING SCHEDULED TESTS FOR OBSERVATION BY DISTRICT PERSONNEL.
- CONTRACTOR SHALL INSTALL APPROVED TRACER WIRE ON EACH REACH OF WATER TRANSMISSION PIPELINE. TRACER WIRE SHALL TERMINATE AT GRADE EVERY 500 FEET IN TRACER WIRE TERMINATION BOXES OR GATE VALVE BOXES.
- ALL MJ FITTINGS SHALL BE RESTRAINED USING APPROVED MECHANICAL JOINT RESTRAINT DEVICES (E.G. MEGALUGS). IN SOME INSTANCES, CONCRETE THRUST BLOCKS AND/OR THREADED RODS ARE CALLED OUT TO BE USED IN ADDITION TO MECHANICAL JOINT RESTRAINT DEVICES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER, TO PROTECT ALL EXISTING TREES, SHRUBS, ETC. THAT ARE NOT SPECIFICALLY IDENTIFIED OR MARKED FOR REMOVAL AND/OR REPLACEMENT. IFIED OR MARKED FOR REMOVAL AND/OR REPLACEMENT.

SYMBOLS



LEGEND

	EARTH
	GRAVEL, RIPRAP
	ASPHALT
	GRAVEL WALKWAY
	CONCRETE
	BUSHES, TREES
	BUSHES, TREES PROTECTED
	BUSHES, TREES REMOVED
	LIMITS OF CONSTRUCTION
	RIGHT-WAY-BOUNDARY
	EASEMENT
	PROPERTY LINE
	EXISTING FENCE
	EXISTING UNDERGROUND CABLE TV
	EXISTING UNDERGROUND TELEPHONE
	EXISTING GAS LINE
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRICAL
	EXISTING UNDERGROUND FIBER OPTIC
	EXISTING WATER LINE AND GATE VALVE
	EXISTING RAW WATER LINE AND GATE VALVE
	NEW RAW WATER LINE AND GATE VALVE
	EXISTING SANITARY SEWER LINE AND MANHOLE
	EXISTING SIGN AND POST
	POWER POLE
	POTHOLE



DESIGNED BY: ARH

DRAWN BY: JGU

CHECKED BY: JUS

PN: N/A

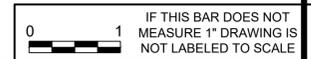
DATE: SEPT 2023

REVISION DESCRIPTION

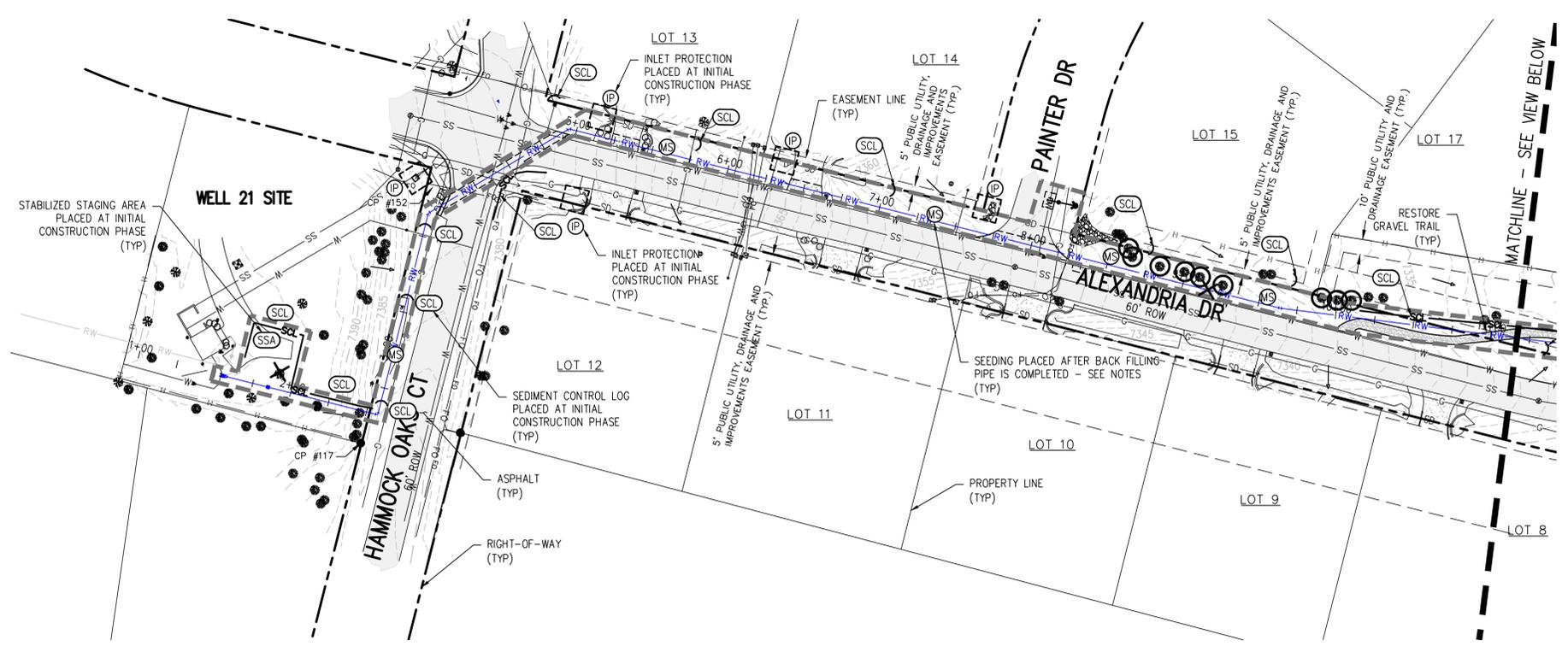
WOODMOOR WELL NO. 22 TRANSMISSION LINE

GENERAL NOTES, ABBREVIATIONS, LEGEND, & SYMBOLS

SHEET NO. **G2**



N:\05139 - Well 22\Drawings\Transmission Pipeline\SEC.dwg, 3/25/2024 - 11:25 AM, jfj



WELL NO. 22 TRANSMISSION LINE PLAN

STA: 1+00 - 11+00

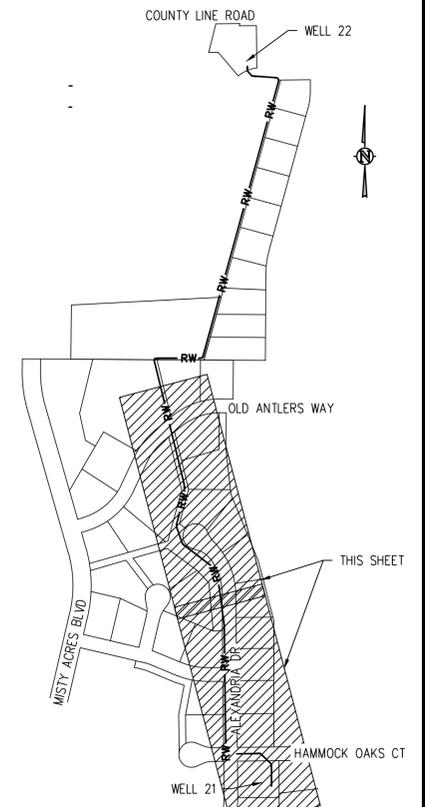
EROSION CONTROL LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPOSED RAW WATER TRANSMISSION PIPELINE
- RIGHT-OF-WAY
- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF CONSTRUCTION/DISTURBANCE
- REMOVE EXISTING TREE AND/OR BUSH
- PROTECT EXISTING TREE AND/OR BUSH
- INLET PROTECTION
- VEHICLE TRACKING CONTROL
- SEDIMENT CONTROL LOG
- MULCHING AND SEEDING
- STABILIZED STAGING AREA
- HISTORIC DRAINAGE

BUSHES, TREES

BUSHES, TREES PROTECTED

BUSHES, TREES REMOVED

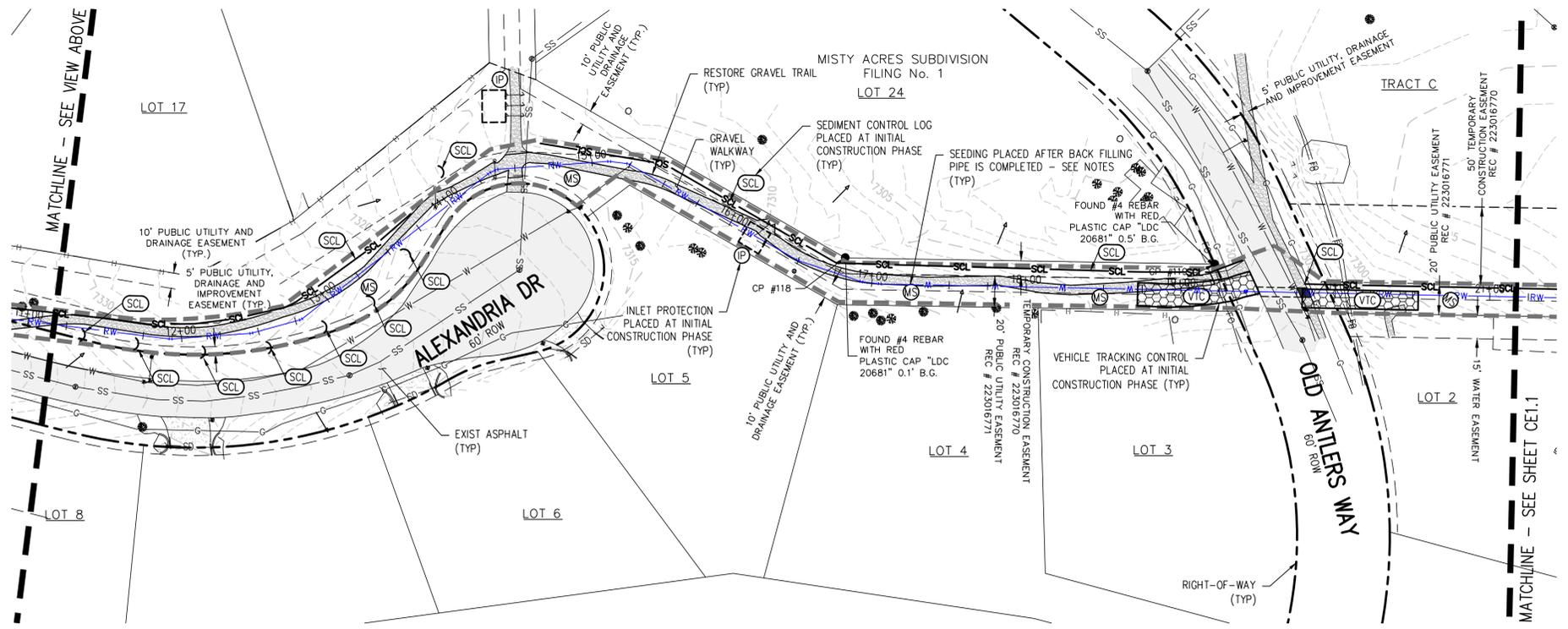


KEY MAP

1"=400'

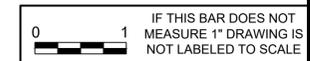
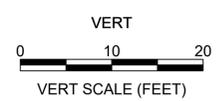
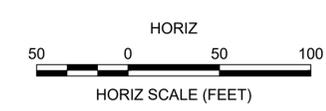
EROSION AND SEDIMENTATION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL CONTROLS DURING INITIAL, INTERIM, AND FINAL CONDITIONS.
2. CONTRACTOR IS RESPONSIBLE FOR TAKING THE NECESSARY PRECAUTIONS TO PROTECT EXISTING FEATURES OUTSIDE OF LIMITS OF CONSTRUCTION.
3. CONTRACTOR TO STOCKPILE EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.
4. AT THE COMPLETION OF THE PIPELINE INSTALLATION THE CONTRACTOR WILL REDISTRIBUTE THE SOIL STOCK PILES WITHIN THE DISTURBANCE AREA. SOME OF THE SOIL MAY BE HAULED OFF-SITE.
5. ALL CONTROLS SHALL BE INSTALLED WITHIN THE EASEMENT LINES UNLESS OTHERWISE SPECIFIED. WHEN CONSTRUCTION ACTIVITIES DISTURB ADJACENT AND/OR RIGHT-OF-WAY PROPERTIES, COORDINATION WITH PROPERTY OWNERS IS REQUIRED PRIOR TO CONSTRUCTION.
6. GRADING/DISTURBANCE WITHIN THE RIGHT-OF-WAY MAY REQUIRE CONTRACTOR TO OBTAIN A WORK WITHIN RIGHT-OF-WAY PERMIT. CONTRACTOR TO VERIFY WITH EL PASO COUNTY PRIOR TO CONSTRUCTION.
7. SEEDING WILL OCCUR OVER ALL DISTURBED NON-PAVED AREAS (GRAVEL OR ASPHALT PAVING) AS SHOWN ON THIS PLAN. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR MULCHING AND SEEDING. IF COMPACTION PREVENTION IS NOT FEASIBLE PRIOR FINAL MULCHING AND SEEDING, THEN THE CONTRACTOR MUST FIRST LOOSEN SOIL.



WELL NO. 22 TRANSMISSION LINE PLAN

STA: 11+00 - 21+00



DESIGNED BY:	DRAWN BY:	CHECKED BY:	NO.	DATE	DES'D	D'WN
ARH	JGJ	JUS				

STORMWATER MANAGEMENT PLAN (SWMP)

THIS STORMWATER MANAGEMENT PLAN IS TO BE RETAINED AND MAINTAINED ON-SITE, INCLUDING FINAL LANDSCAPING PLANS AND A SWMP ADMINISTRATOR WILL BE DESIGNATED BY THE CONTRACTOR AND IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, MAINTAINING, AND THE CONTACT FOR ALL SWMP-RELATED ISSUES AND IS RESPONSIBLE FOR ITS ACCURACY, COMPLETENESS, AND IMPLEMENTATION. ADMINISTRATOR FOR THIS PROJECT:

NAME: _____

CONTACT INFO: _____

THE PROPOSED BURIED 6" WATER TRANSMISSION PIPELINE WILL EXTEND FROM WOODMOOR WATER AND SANITATION DISTRICT'S WELL 22 SITE TO THEIR WELL 21 SITE IN MONUMENT, COLORADO. THE WELL 22 SITE IS LOCATED ON THE NORTH END OF THE DISTRICT'S JURISDICTION, ADJACENT TO COUNTY LINE ROAD THAT SEPARATES DOUGLAS COUNTY FROM EL PASO COUNTY AND JUST EAST OF INTERSTATE 25. FROM HERE THE PIPELINE WILL EXTEND APPROXIMATELY 3835 FEET SOUTH TO THE WELL 21 SITE LOCATED JUST SOUTHWEST OF THE INTERSECTION OF ALEXANDRIA DRIVE AND HAMMOCK OAKS CT. THE TRANSMISSION LINE ALIGNMENT WILL BE LOCATED WITHIN DISTRICT UTILITY EASEMENTS AND PUBLIC RIGHT-OF-WAY. IT WILL CONNECT TO AN EXISTING DISTRICT WATER TRANSMISSION PIPELINE (REFER TO SHEET G1 WITH THE OVERALL KEY MAP). THE AREA NEEDED TO INSTALL THE PIPELINE IS ESTIMATED TO BE 1.8 ACRES WITH A TOTAL DISTURBANCE OF 1.5 NO CONSTRUCTION ACTIVITIES SHALL OCCUR OFFSITE OR OUTSIDE OF THE CONSTRUCTION LIMITS SHOWN ON THE CONSTRUCTION DOCUMENTS. THE SEQUENCE OF CONSTRUCTION STARTS IS AS FOLLOWS:

PHASE	ESTIMATED	ACTUAL
CONSTRUCTION START	APRIL, 2024	-----
TEMPORARY EROSION CONTROL	APRIL, 2024	-----
TRANSMISSION PIPELINE CONSTRUCTION	APRIL – JULY, 2024	-----
FINAL STABILIZATION AND SEEDING	SEPTEMBER, 2024	-----

THE EXISTING SITE CONSISTS OF DEVELOPED LAND WITH RESIDENTIAL LOTS AND PAVED STREETS, NATIVE GRASSLAND, AND PARTIALLY LANDSCAPED VEGETATION, AND IS APPROXIMATELY 80% COVERED WITH VEGETATIVE GROUND COVER (BASED ON VISUAL AND AERIAL INSPECTIONS). THE TOPOGRAPHY WITHIN THIS CAPITAL IMPROVEMENT PROJECT GENERALLY DRAINS TO THE NORTH AND NORTHWEST. NO STREAMS CROSS THE PROJECT AREA. STORMWATER DRAINAGE FROM THE RESIDENTIAL SUBDIVISION IS CONVEYED THROUGH A SERIES OF ROAD SIDE DITCHES THAT DRAIN TO THE BARR DITCH WHICH THEN DRAINS TO CRYSTAL CREEK. A DRAINAGE REPORT AND SOILS REPORT WAS NOT PREPARED FOR THIS PROJECT BECAUSE THE MAJORITY OF DISTURBED AREAS WILL BE RESTORED CLOSELY TO THE PRE-CONSTRUCTION GRADE AND VEGETATIVE COVER. THE SOILS FOUND HAVE BEEN IDENTIFIED BY USDS SOILS SURVEY TO BE PEYTON-PRING COMPLEX, WHICH IS TYPICALLY MADE UP OF SANDY LOAM OR SANDY CLAY LOAM SOIL AND HAS LOW TO MODERATE EROSION/RUNOFF POTENTIAL PER USDS SOILS REPORT.

THE DISTURBANCE WILL BE DUE PRIMARILY TO THE EXCAVATION OF THE PIPELINE TRENCH AND TEMPORARILY STOCK PILING THE DIRT WHILE THE PIPELINE IS BEING INSTALLED. THE CONTRACTOR IS EXPECTED TO LIMIT THE AMOUNT OF OPEN EXCAVATION AT ANY GIVEN TIME TO LIMIT THE DISTURBANCE AREA AND FOR SAFETY REASON. ONCE A RUN OF PIPE IS INSTALLED, THE TRENCH WILL BE BACKED FILLED AND THE AREA WILL BE GRADED BACK TO CLOSELY MATCH THE PRE-DISTURBANCE CONDITION.

NO BATCH PLANTS WILL BE UTILIZED ON SITE.

OFFSITE RUNOFF FLOWS HAVE NOT BEEN DEFINED ALONG THE PIPELINE ALIGNMENT. A PORTION OF THE PIPELINE WILL BE CONSTRUCTED ADJACENT TO RESIDENTIAL STREETS. THEREFORE, MOST OF THE RUNOFF TO THE PIPELINE INSTALLATION AREA WILL COME FROM THE STREETS AND EXISTING DRAINAGE SWALES DURING STORM EVENTS. ADDITIONALLY, RUNOFF WILL COME FROM OVERLAND FLOW WITHIN THE NATIVE GRASSLAND AREAS. NON-STORMWATER DISCHARGE IS NOT ANTICIPATED IN THE PROJECT AREA.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION OF A STABILIZED STAGING AREA WITH THE WOODMOOR WATER AND SANITATION DISTRICT. OTHER POTENTIAL POLLUTION SOURCES SUCH AS VEHICLE FUELING, STORAGE OF FERTILIZER OR CHEMICALS WILL BE CONFINED TO THIS LOCATION (OR WILL NOT EXIST AT THIS SITE).

BEST MANAGEMENT PRACTICES FOR STORMWATER MANAGEMENT

NON STRUCTURAL BMPs WILL BE IMPLEMENTED TO THE MAXIMUM EXTENT POSSIBLE. THE UTILIZATION OF NON STRUCTURAL BMPs WILL BE AN ONGOING PROCESS DIRECTED AT PREVENTING EROSION. THE NON STRUCTURAL BMPs WILL RECEIVE CONTINUOUS EMPHASIS THROUGHOUT CONSTRUCTION BECAUSE THEY AVERT PROBLEMS BEFORE THEY OCCUR AND REDUCE THE NEED FOR STRUCTURAL BMPs. NON STRUCTURAL BMPs WILL CONSIST PRIMARILY OF PRESERVATION OF EXISTING MATURE VEGETATION AND TREES, PLANNING AND SCHEDULING CONSTRUCTION ACTIVITIES AIMED AT ACHIEVING THE GOAL OF MINIMIZING EROSION. FURTHERMORE, CONSTRUCTION PERSONNEL WILL BE INSTRUCTED AND SUPERVISED IN CONSTRUCTION METHODS CONSISTENT WITH EROSION PREVENTION PRACTICES.

PLANNED STRUCTURAL BMPs FOR EROSION AND SEDIMENT CONTROL ARE SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN. IMPLEMENTING THESE MEASURES SHOULD MINIMIZE NUISANCE SILT AND SEDIMENTATION EXITING THE SITE AND PREVENT EXPOSING EXISTING STORM SEWERS AND STREET GUTTERS.

APPLICATION OF THESE BMPs FOR STORMWATER MANAGEMENT ARE FOR CONSTRUCTION PERIODS AND ARE CONSIDERED TEMPORARY. POST-DEVELOPMENT STORMWATER MANAGEMENT IS PROVIDED THROUGH (VEGETATED LANDSCAPED AREAS, GRASSED SWALES, AND RIPRAP PROTECTION.

VEHICLE TRACKING CONTROL (VTC).

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AS COORDINATED BY THE DISTRICT AND CONTRACTOR(S). THE EROSION CONTROL PLAN SHOWS POTENTIAL LOCATIONS BASED ON REASONABLE CONCLUSIONS. THE CONSTRUCTION ACCESS AND PARKING WILL BE GRADED AND COVERED WITH A CRUSHED STONE BASE COURSE DURING CONSTRUCTION. THE VEHICLE TRACKING CONTROL WILL BE RELOCATED WITH THE CONSTRUCTION ACCESS AS NECESSARY.

SEDIMENT CONTROL LOGS (SCL).

SEDIMENT CONTROL LOGS SHALL BE INSTALLED WITH RESPECT TO PROPOSED DRAINAGE PATTERNS. SEDIMENT CONTROL LOGS ARE SHOWN ON THE EROSION CONTROL PLAN INSTALLED ALONG THE PIPELINE ALIGNMENT AND ALONG ANY DRAINAGE AREAS SUBJECT TO EROSION. THE SEDIMENT CONTROL LOGS SHALL BE INSTALLED AT THE DOWNHILL SIDE OF THE EXISTING SLOPES ACROSS THE SITE AND AT ALL POINT DISCHARGE AREAS WHETHER SHOWN OR NOT. SEDIMENT CONTROL LOGS SHALL BE MAINTAINED AS NEEDED THROUGHOUT THE CONSTRUCTION PROCESS. THE TEMPORARY SEDIMENT CONTROL LOGS WILL REMAIN UNTIL THE STORM SEWER STRUCTURES ARE COMPLETED AND GROUND COVER IS EFFECTIVE.

OVERLOT GRADING.

ALL OPEN AREAS WILL BE TREATED WITHIN 14 DAYS OF COMPLETION OF THE OVERLOT GRADING. ALL OVERLOT GRADING IN THE NON-IRRIGATED AREAS WILL HAVE THE SURFACE ROUGHENED AND WILL BE PERMANENTLY LANDSCAPED OR TEMPORARILY SEEDED UNTIL THE PLANNED INSTALLATIONS ARE COMPLETED. AT THE COMPLETION OF THE MASS GRADING, ALL EXPOSED SOIL AREAS WILL HAVE THE SURFACE ROUGHENED AND PLANTED WITH A REVEGETATION SEED MIX. VEGETATION IS TO BE MAINTAINED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR UNTIL AREAS ARE PERMANENTLY LANDSCAPED. ALTERNATELY, ROUGH-CUT DRIVEWAYS OR PROPOSED PAVED AREAS CAN BE COVERED WITH A LAYER OF AGGREGATE, ROAD BASE OR ASPHALT PAVING.

DUST CONTROL MEASURES:

DISTURBED AREAS NOT YET READY TO BE SEEDDED, LANDSCAPES, PAVED, OR OTHERWISE STABILIZED SHALL BE WATERED, OR RIPPED AS NECESSARY TO PRECLUDE VISIBLE DUST EMISSIONS.

ITEMS ARE SCHEDULED TO BE IMPLEMENTED ACCORDING TO THE CONSTRUCTION SCHEDULE. AS WORK PROCEEDS, IMPLEMENTATION OF INDIVIDUAL BMPs IS TO COINCIDE WITH THE CONSTRUCTION THEREBY MINIMIZING THE EXPOSURE OF UNPROTECTED AREAS. THE SILT FENCE, INLET PROTECTION (FOR EXISTING INLETS), AND GRAVELING OF THE CONSTRUCTION ENTRANCE WILL BE PERFORMED WHEN THE GRADING BEGINS. THE INLET PROTECTION WILL BE INSTALLED AS THE STORM SEWER STRUCTURES ARE CONSTRUCTED. THE RIPRAP PROTECTION WILL BE INSTALLED AS THE STORM SEWER OUTFALLS OR CULVERTS ARE CONSTRUCTED. THE STRUCTURAL BMPs THAT DO NOT BECOME PART OF THE PERMANENT STORMWATER MANAGEMENT PLAN ARE TO BE REMOVED, AS THE PAVING, LANDSCAPING, AND OTHER PERMANENT GROUNDCOVER INSTALLATIONS ARE COMPLETED. FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING THE BEST AVAILABLE CONTROL TECHNOLOGY AS DEFINED BY THE COLORADO DEPARTMENT OF HEALTH AT THE TIME OF GRADING. THE GRAVELING IS TO BE MAINTAINED AND EXTENDED CONSTRUCTION PROGRESSES ESPECIALLY AROUND THE BUILDING SITE. THE STRUCTURAL BMPs ARE TO BE REMOVED, AS THE PERMANENT LANDSCAPING INSTALLATIONS ARE COMPLETED.

THE EROSION AND SEDIMENT CONTROL PLAN MAY BE MODIFIED BY THE OWNER'S ENGINEER, COUNTY ENGINEERING INSPECTORS, MUNICIPALITY, WSD, OR ITS AUTHORIZED REPRESENTATIVE AS FIELD CONDITIONS WARRANT.

PERMANENT STABILIZATION MEASURES:

PERMANENT LANDSCAPING WILL INCLUDE SEEDING TO OPEN AREAS. NATIVE PERENNIAL SEEDING WILL BE ESTABLISHED IN NON-IRRIGATED AREAS. ALL PERMANENT STABILIZATION MEASURES WILL BE SPECIFIED BY THE OWNER/SWMP.

MATERIALS AND SPILL PREVENTION:

THE CONTRACTOR WILL STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN CONFINED AREAS ON SITE FROM WHICH RUNOFF WILL BE CONTAINED AND FILTERED. MATERIALS WILL BE STORED OFF THE GROUND AND PROTECTED FROM THE WEATHER BY A COVER OR STORED IN A CONTAINER SUCH AS A VAN OR TRAILER. AN EARTHEN DIKE WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE FUEL STORAGE AREA TO PREVENT MATERIALS FROM CONTACT WITH SURFACE RUNOFF. EQUIPMENT MAINTENANCE WILL BE PERFORMED IN A DESIGNATED AREA AND STANDARD MAINTENANCE PROCEDURES, SUCH AS THE USE OF DRIP PANS, WILL BE USED TO CONTAIN PETROLEUM PRODUCTS.

INSPECTION AND MAINTENANCE:

THE EROSION CONTROL MEASURES WILL BE INSPECTED DAILY DURING CONSTRUCTION BY THE CONTRACTOR AND AFTER EACH RAIN EVENT. ALL INSPECTIONS SHALL BE DOCUMENTED AND SHALL INCLUDE THE DATE OF INSPECTION, ANY INCIDENCE OF NON-COMPLIANCE, SIGNED CERTIFICATION THAT THE SITE IS IN COMPLIANCE, AND ANY NOTES, DRAWINGS, MAPS, ETC. PERTAINING TO REPAIRS. COPIES OF ALL DOCUMENTATION SHALL BE DISTRIBUTED TO MUNICIPALITIES AND OWNER ON A REGULAR BASIS AS SPECIFIED BY OWNER. SEDIMENTS DEPOSITED IN THE PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY. THE TEMPORARY VEGETATION OF BARE SOILS WILL BE CHECKED REGULARLY AND AREAS WHERE IT IS LOST OR DAMAGED WILL BE RESEDED. AT MINIMUM THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL BMPs EVERY 14 DAYS AND AFTER SIGNIFICANT PRECIPITATION OR SNOWMELT EVENTS. INSTALLATIONS AND MODIFICATIONS AS REQUIRED BY THE (CITY/TOWN/COUNTY/DISTRICT) WILL BE IMPLEMENTED WITHIN 48 HOURS OF NOTIFICATION. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.

FINAL STABILIZATION AND LONG-TERM STORMWATER QUALITY:

THIS PROJECT DOES NOT RELY ON CONTROL MEASURES OWNED OR OPERATED BY ANOTHER ENTITY. FINAL STABILIZATION IS REACHED WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% OR PRE-DISTURBANCE LEVELS OR EQUIVALENT PERMANENT,

Item 1. Add Qualified Stormwater Manager and Contractor Information to cover/title sheet. If unknown, add a placeholder to be updated prior to the pre-construction meeting:

QUALIFIED STORMWATER MANAGER

OTHER EROSION CONTROL DOCUMENTATION: A SWMP NAME: THIS SWMP. THE SWMP ADMINISTRATOR IS COMPANY: THE SWMP HAS BEEN DESIGNATED AS THE SWMP ADDRESS:

CONTRACTOR

Name: _____
Company: _____
Address: _____

Unresolved:

Address SWMP Checklist Items 10 & 14.

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. 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 PRE-CONSTRUCTION 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. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS 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 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 WASHWATS 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, UNCONTAMINATED GROUNDWATER 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 CONSTRUCTION SITES 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 AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITEE 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.
- 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

EL PASO COUNTY SELF-MONITORING INSPECTIONS

THE PERMIT HOLDER OR AUTHORIZED AGENT SHALL CONDUCT SELF-MONITORING INSPECTIONS. THE PURPOSE OF SELF-MONITORING INSPECTIONS IS FOR THE PERMIT HOLDER TO ENSURE THAT ALL BMPs ARE INSTALLED ACCORDING TO APPROVED PLANS, THE BMPs ARE ADEQUATE AND ARE BEING PROPERLY MAINTAINED, THE SWMP IS UPDATED TO REFLECT CURRENT CONDITIONS, AND ONLY ALLOWABLE DISCHARGES ARE OCCURRING OFF THE SITE. THE PERSON PERFORMING THE INSPECTIONS MAY BE ON THE PERMIT HOLDER'S STAFF OR A CONTRACTED THIRD PARTY. THE INDIVIDUAL PERFORMING THE SELF-MONITORING INSPECTIONS SHALL BE A QUALIFIED STORMWATER MANAGER, WHICH IS AN INDIVIDUAL KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL AND POLLUTION PREVENTION AND WITH THE SKILLS TO ASSESS CONDITIONS AT CONSTRUCTION SITES THAT COULD IMPACT STORMWATER QUALITY AND THE EFFECTIVENESS OF STORMWATER CONTROLS IMPLEMENTED TO MEET STORMWATER PERMITTING REQUIREMENTS. EXAMPLES OF A QUALIFIED STORMWATER MANAGER INCLUDE: A REGISTERED PROFESSIONAL ENGINEER OR AN EROSION CONTROL INSPECTOR CERTIFIED IN A REGIONALLY RECOGNIZED EROSION AND SEDIMENT CONTROL INSPECTION TRAINING PROGRAM. THE PERSON PERFORMING INSPECTIONS SHOULD BE A PERSON WITH AUTHORITY TO EXPEND PROJECT DOLLARS ON EROSION AND STORMWATER QUALITY CONTROL. THERE ARE TWO TYPES OF SELF-MONITORING INSPECTIONS ALLOWED IN EL PASO COUNTY: ROUTINE SELF-MONITORING AND OPERATOR COMPLIANCE INSPECTIONS. THE PERMIT HOLDER OR AUTHORIZED REPRESENTATIVE MAY REQUEST AN ALTERNATIVE TO THE 14 DAY ROUTINE SELF-MONITORING INSPECTION CYCLE DISCUSSED ABOVE. SELF-MONITORING INSPECTIONS OF STORMWATER BEST MANAGEMENT PRACTICES MAY BE REQUESTED FOR AT LEAST ONCE EVERY MONTH (I.E., 30 DAYS) FOR PERMITTED CONSTRUCTION SITES WHEN:

• ALL CONSTRUCTION ACTIVITY IS COMPLETED EXCEPT FINAL STABILIZATION BECAUSE PLANTED VEGETATIVE COVER HAS NOT YET BECOME ESTABLISHED;

• ALL ACTIVITIES FOR FINAL STABILIZATION HAVE BEEN COMPLETED WITH THE EXCEPTION OF SEED APPLICATION WHICH MAY NOT HAVE OCCURRED DUE TO SEASONAL CONDITIONS OR THE NECESSITY TO REAPPLY ADDITIONAL SEED TO AUGMENT PREVIOUS EFFORTS; AND

• THE SWMP HAS BEEN UPDATED TO LOCATE THOSE AREAS SUBJECT TO THE REDUCED INSPECTION FREQUENCY. ROUTINE SELF-MONITORING INSPECTIONS AFTER PRECIPITATION EVENTS ARE NOT REQUIRED DURING AN APPROVED 30 DAY INSPECTION CYCLE.

- ROUTINE SELF-MONITORING INSPECTIONS. THE ROUTINE SELF-MONITORING INSPECTIONS ARE TO BE PERFORMED AND DOCUMENTED AT LEAST ONCE EVERY 7 CALENDAR DAYS; OR AT LEAST ONCE EVERY 14 CALENDARS, IF POST-STORM EVENT INSPECTIONS ARE CONDUCTED WITHIN 24 HOURS AFTER THE END OF A PRECIPITATION OR SNOW MELT EVENT. POST-STORM INSPECTIONS MAY BE USED TO FULFILL THE 14 DAY INSPECTION REQUIREMENT. IN ADDITION TO THE BI-WEEKLY INSPECTIONS THE OWNER OR REPRESENTATIVE SHALL PERFORM POST-STORM INSPECTIONS OF ALL BMPs AFTER ANY PRECIPITATION OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION TO ENSURE THAT THE BMPs HAVE OPERATED AS DESIGNED, TO DETERMINE IF MAINTENANCE IS NEEDED, AND TO LOCATE AND CLEAN UP ANY AREAS WHERE MATERIALS MAY HAVE RUN OFF SITE. FOR THOSE CHOOSING TO UTILIZE A 14-DAY AND POST-STORM INSPECTION FREQUENCY, IF NO CONSTRUCTION ACTIVITIES WILL OCCUR FOLLOWING A STORM EVENT, POST-STORM INSPECTION MUST BE CONDUCTED PRIOR TO RESUMING CONSTRUCTION ACTIVITIES BUT NO LATER THAN 72 HOURS FOLLOWING A STORM EVENT. THE DELAY OF ANY POST-STORM INSPECTION MUST BE DOCUMENTED IN THE INSPECTION RECORDS INCLUDED IN THE SWMP.

THE OWNER OR HIS REPRESENTATIVE WILL RECORD THE RESULTS OF ALL INSPECTIONS BY COMPLETING AN INSPECTION REPORT OR SIMILAR INSPECTION CHECKLIST INCLUDED IN THE SWMP. COMPLETED INSPECTION REPORTS SHALL BE KEPT ON SITE AND AVAILABLE TO COUNTY INSPECTORS. THE COUNTY MAY REQUIRE THE SUBMISSION OF THESE INSPECTION REPORTS ON A SITE-SPECIFIC BASIS.

- OPERATOR COMPLIANCE INSPECTION. WHEN A COMPLIANCE INSPECTION CONDUCTED BY A COUNTY STORMWATER INSPECTOR DOCUMENTS THE FAILURE TO IMPLEMENT CONTROL MEASURES OR IMPLEMENTATION OF INADEQUATE CONTROL MEASURES, THE COUNTY STORMWATER INSPECTOR MAY REQUIRE THE ESQCP OWNER OR THEIR REPRESENTATIVE TO INSPECT AND PROVIDE A REPORT TO THE COUNTY THAT THE CONTROL MEASURES HAVE BEEN IMPLEMENTED OR CORRECTED. THE OWNER OR THE REPRESENTATIVE MUST INCLUDE DATE AND TIME STAMPED PHOTOGRAPHS OF THE NEW, ADEQUATE CONTROL MEASURES.

MULCHING AND SEEDING NOTES FOR EL PASO COUNTY

- ALL DISTURBED AREAS MUST BE MULCHED WITHIN 21 DAY AFTER FINAL GRADE AND SEEDDED AREAS ARE TO BE MULCHED WITH 24 HOURS AFTER SEEDING.
- MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED- AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FEE FORAGE CERTIFICATION PROGRAM.
- HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FORM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATER. GRAVEL CAN ALSO BE USED.
- MULCH IS TO BE APPLIED EVENLY AT THE RATE OF 2 TONS PER ACRE.
- MULCH TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED IN SMALL AREAS WITH STEEP SLOPES), OR WITH TACKIFIER.
- HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

EL PASO COUNTY CONSERVATION DISTRICT SHOTGUN MIX

COMMON NAME	RECOMMENDED VARIETY	% OF SEED MIX	PLS/ACRE
KAW, BISON, CHAMP			1.02
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	10	0.48
WHEAT NEEDLEGRASS	ARRIBA, BARTON	20	1.60
GRAMA, SIDEOATS	VAUGHN, BUTTE, EL RENO, NINER	10	0.46
SWITCHGRASS	BLACKWELL, GREENVILLE	10	0.20
PRAIRIE SANDREED	GOSHEN, PRONGHORN	10	0.32
YELLOW INDIANGRASS	CHEYENNE, HOLT, LLANO	10	0.51

0 1 IF THIS BAR DOES NOT MEASURE 1" DRAWING IS NOT LABELED TO SCALE

WOODMOOR
WATER & SANITATION DISTRICT NO. 1



DESIGNED BY: ARH
DRAWN BY: JGU
CHECKED BY: JUS

NO. DATE DESD DWN

REVISION DESCRIPTION

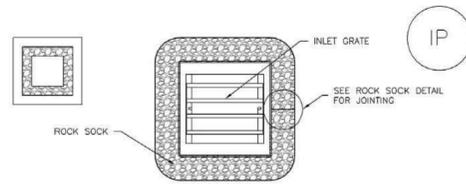
PN: N/A
DATE: SEPT 2023

WOODMOOR WELL NO. 22 TRANSMISSION LINE
SWMP AND GEC NOTES

SHEET NO.
CE1.2

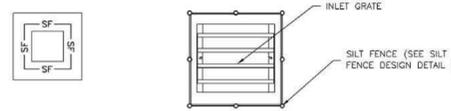
Inlet Protection (IP)

SC-6



IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.



IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE INLET PROTECTION INSTALLATION NOTES
1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

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Inlet Protection (IP)

GENERAL INLET PROTECTION INSTALLATION NOTES
1. SEE PLAN VIEW FOR LOCATION OF INLET PROTECTION.

2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS).

3. MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS.

INLET PROTECTION MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS.

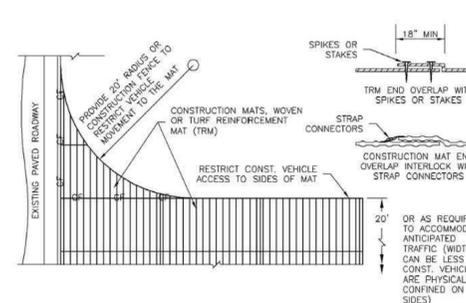
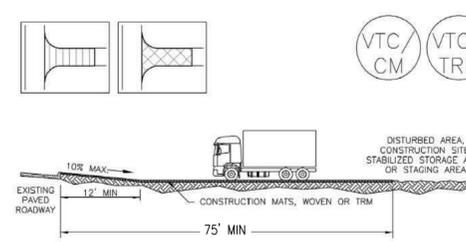
5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED.

6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED.

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Vehicle Tracking Control (VTC)

SM-4

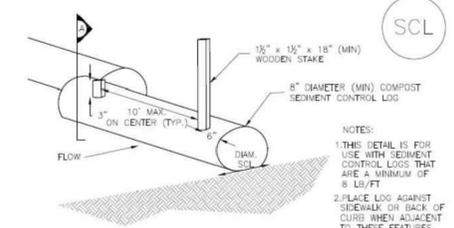


VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

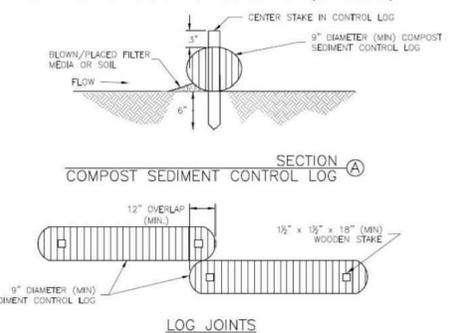
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SC-2

Sediment Control Log (SCL)



COMPOST SEDIMENT CONTROL LOG (WEIGHTED)

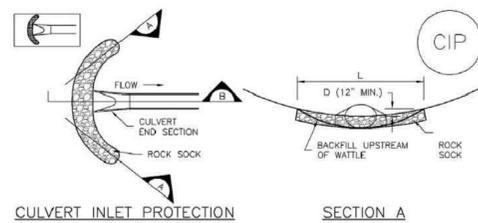


COMPOST SEDIMENT CONTROL LOG (WEIGHTED)

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Inlet Protection (IP)

SC-6



CIP-1. CULVERT INLET PROTECTION

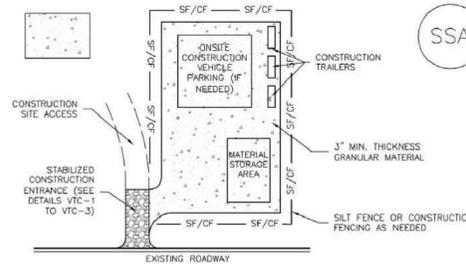
CULVERT INLET PROTECTION INSTALLATION NOTES
1. SEE PLAN VIEW FOR LOCATION OF CULVERT INLET PROTECTION.

CULVERT INLET PROTECTION MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

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Stabilized Staging Area (SSA)

SM-6



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES
1. SEE PLAN VIEW FOR LOCATION OF STAGING AREA(S).

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.

4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

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SM-4

Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES
1. SEE PLAN VIEW FOR LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS.

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

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SC-2

Sediment Control Log (SCL)

SEDIMENT CONTROL LOG INSTALLATION NOTES
1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.

2. SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED TO ANY UPGRADED LAND-DISTURBING ACTIVITIES.

3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.

4. SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES.

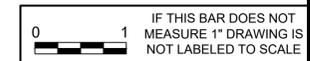
5. IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG.

6. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS.

7. FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS.

SEDIMENT CONTROL LOG MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

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IF THIS BAR DOES NOT MEASURE 1" DRAWING IS NOT LABELED TO SCALE

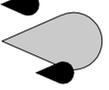


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