SEPTEMBER 2023

Standard Notes for El Paso County Grading and Erosion Control Plans

1. 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.

2. 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.

- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. All permanent stormwater management facilities shall be installed as designed in the approved plans. Any proposed changes that affect the design or function of permanent stormwater management structures must be approved by the ECM Administrator prior to
- 10. 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.
- 11. 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 loosened prior to installation of the control measure(s).
- 12. 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.
- 13. 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
- 14. 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.
- 15. Erosion control blanketing or other protective covering shall be used on slopes steeper than 3:1.
- 16. 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.
- 17. 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.
- 18. Tracking of soils and construction debris off-site shall be minimized. Materials tracked off-site shall be cleaned up and properly disposed of immediately.
- 19. 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.
- 20. 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.
- 21. No chemical(s) having the potential to be released in stormwater are to be stored or used onsite 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.
- 22. 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 onsite and to prevent any spilled materials from entering State Waters, any surface or subsurface storm drainage system or other facilities.
- 23. No person shall cause the impediment of stormwater flow in the curb and gutter or ditch except with approved sediment control measures.
- 24. 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.
- 25. All construction traffic must enter/exit the site only at approved construction access points.
- 26. Prior to construction the permittee shall verify the location of existing utilities.
- 27. 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.
- 28. The soils report for this site has been prepared by $____N/A_____$ and shall be considered a part of these
- 29. 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

SITE MAP SCALE: 1"=1,000

GENERAL NOTES

THE CONTRACTOR.

OF EXISTING UNDERGROUND UTILITIES.

KNOW WHAT'S BELOW, CALL BEFORE YOU DIG.

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE

EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE SITE.

THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS

NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE LOCATION

2. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT

EXISTING UTILITIES, BUILDINGS, FENCES, AND ROADWAYS FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE ABOVE WILL BE REPAIRED AT THE

CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY

200

1,325

1,599

3. AS DETERMINED BY THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL

#'S 08041C0545G & 08041C0561G, EFFECTIVE DATES DECEMBER 7, 2018, NO

PORTION OF THIS SITE IS LOCATED WITHIN A DESIGNATED 100-YEAR F.E.M.A.

4. NO BATCH PLANTS ARE PROPOSED FOR THIS PROJECT.

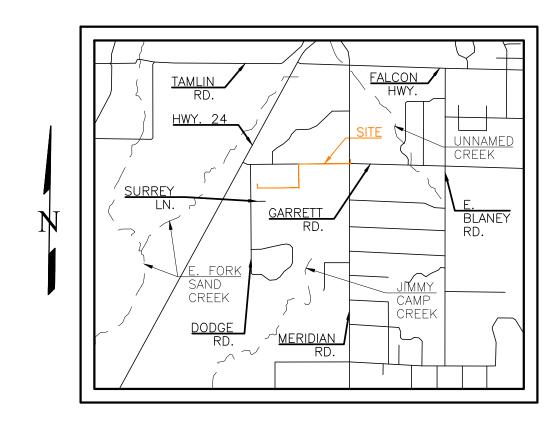
EROSION CONTROL COST OPINION

3. 1 EA.-VEHICLE TRACKING CONTROL @ \$1325.00/EA

1. 3.15 AC-SEEDING & MULCH @ \$785/AC

2. 1 EA.-FUEL SPILL KIT @ \$200.00/EA

2. 40% MAINTENANCE AND REPLACEMENT



VICINITY MAP

DESCRIPTION OF ACTIVITIES:

THE DEVELOPER PROPOSES TO INSTALL UNDERGROUND ELECTRIC UTILITIES AS WELL AS ASSOCIATED ELECTRIC VAULTS FROM AN AREA BEGINNING AT A MOUNTAIN VIEW ELECTRIC SUBSTATION LOCATED AT 5315 DODGE ROAD. THE INSTALLATION TRAVELS EAST FOR ABOUT HALF A MILE BEFORE TRAVELLING NORTH TO GARRETT ROAD THROUGH PRIVATE EASEMENTS FOR A QUARTER MILE. THE INSTALLATION THEN TRAVELS SOUTH ALONG GARRETT ROAD FOR APPROXIMATELY ANOTHER HALF MILE WHERE IT WILL END NEAR THE INTERSECTION OF GARRETT ROAD AND MERIDIAN ROAD. THE MAJORITY OF THIS PROJECT WILL BE INSTALLED BY OPEN CUT TRENCHING BUT DIRECTIONAL BORING WILL BE USED TO CROSS ROADS AND DRIVEWAYS. THE SITE CONSISTS OF APPROXIMATELY 3.15 ACRES OF UNDEVELOPED PRAIRIE LOCATED IN EL PASO COUNTY.

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES. THE MVEA ELECTRIC SUBSTATION LOCATED AT 5315 DODGE ROAD WILL BE USED FOR ACCESS TO THE SITE. IT IS ANTICIPATED THAT CONSTRUCTION ACTIVITIES WILL OCCUR BETWEEN SUMMER OF 2023 AND FALL OF 2023, AT WHICH POINT IT WILL BE CONSIDERED COMPLETED.

CONSTRUCTION PHASING IS ANTICIPATED TO OCCUR AS FOLLOWS:

PRIOR TO START OF CONSTRUCTION, INITIAL EROSION CONTROL MEASURES TO BE INSTALLED INCLUDE SEDIMENT CONTROL LOG (SCL) ALONG THE DOWNHILL SIDE OF DISTURBED AREA. ALSO INCLUDED IN THIS PHASE WILL BE INSTALLATION OF SEDIMENT CONTROL LOG (SCL) AROUND THE BASE OF ANY DIRT STOCKPILE AREAS. UNTIL THE STOCKPILE HAS BEEN REMOVED. THE SEDIMENT CONTROL LOG SHALL REMAIN IN PLACE AND BE MAINTAINED IN SUCH A WAY AS TO REDUCE TRANSFERENCE OF SEDIMENTATION OVER THE SITE.

ALL PREVIOUSLY INSTALLED BMP'S SHALL REMAIN IN PLACE UNTIL A LATER PHASE.

ANY AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL BE SEEDED IN ORDER TO ESTABLISH A VEGETATIVE COVER UNTIL THE FINAL LANDSCAPING IS INSTALLED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND VEGETATION HAS BEEN ESTABLISHED TO 70% ON AREAS NOT COVERED BY GRAVEL. ONCE VEGETATIVE COVER HAS BEEN ESTABLISHED AT 70% OF THE DISTURBED AREAS, SEDIMENT CONTROL LOG WILL BE REMOVED FROM ANY DIRT STOCKPILE AREAS. THE DIRT STOCKPILES (SP) WILL BE REMOVED AND RE-VEGETATED AS PART OF THIS PHASE.

FINAL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AT THIS POINT. THE PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

THE SOILS ON THIS SITE ARE BLAKELAND LOAMY SAND (8), 1% TO 9% SLOPES. THE SOIL IS IN HYDROLOGIC SOIL GROUP A, THEREFORE, THERE ARE LOW RUNOFF POTENTIALS. THERE ARE NO WETLANDS ON THIS SITE.

THE SITE CONSISTS OF UNDEVELOPED LAND THAT HAS NATURAL VEGETATIVE COVER OF ABOUT 70% CONSISTING OF NATIVE GRASSES BASED ON AERIAL PHOTOS AND A

THERE ARE NO POTENTIAL POLLUTANTS EXISTING OR PROPOSED FOR STORAGE ON

THIS SITE IS WITHIN THE FALCON, JIMMY CAMP CREEK, AND SAND CREEK DRAINAGE BASINS. DRAINAGE TYPICALLY FLOWS FROM THE NORTHEAST TOWARDS THE SOUTHWEST ON THIS SITE.

THE PROPERTY OWNER OR OWNERS REPRESENTATIVE IS RESPONSIBLE FOR INSPECTING AND MAINTAINING THE SITE ON A REGULAR BASIS. INITIAL CRITERIA FOR THE OCCURRENCE OF INSPECTIONS IS AS FOLLOWS: ONCE EVERY 14 DAYS OR

AFTER ANY PRECIPITATION OR SNOWMELT EVENT THAT SIGNIFICANT ENOUGH TO CAUSE SURFACE EROSION. A WRITTEN RECORD OF INSPECTIONS SHALL BE KEPT BY THE OWNER OR OWNERS REPRESENTATIVE AND MADE AVAILABLE TO THE COUNTY UPON REQUEST. THIS WILL CONTINUE UNTIL THE SITE IS STABILIZED AND THE STOCKPILE IS NO LONGER NEEDED.

SHEET INDEX

COVER SHEET SITE PLAN EROSION AND SEDIMENT CONTROL PLAN 3 OF 6 EROSION AND SEDIMENT CONTROL PLAN 4 OF 6 EROSION AND SEDIMENT CONTROL PLAN 5 OF 6 **EROSION CONTROL DETAILS** 6 OF 6

SITE DATA

OWNER/PETITIONER: MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMAN RD PEYTON, CO 80931 MR. DAVID WALDNER, (719) 495-2283

PREPARER: TERRA NOVA ENGINEERING, INC. 721 S 23RD STREET COLORADO SPRINGS, CO 80904 (719) 635-6422 OFFICE (719) 499-2255 MOBILE

TOTAL AREA TO BE CLEARED, EXCAVATED, GRADED OR DISTURBED IS 3.15± ACRES.

VOLUME

EARTHWORK VOLUMES: N/A

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 INTERIOR SRITERIA ESTABLISHED BY THE COUNTY FOR LANS. LIANSEPT RESPONSIBILITY FOR ANY LIABILITY SPECIAL OF THE PROPERTY OF THE GRADING AND EROSION CONTROL MISSIONS ON MY PART IN PREPARING CAUSED BY ANY NEGLIGENT THIS REPORT.

FOR AND ON BEHALF OF TERRA

OWNER'S STATEMENT

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

OWNER NAME. Amy Carlsen _. 09/19/2023

EL PASO COUNTY APPROVAL

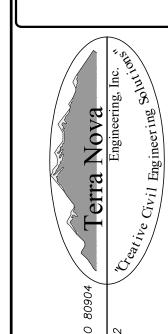
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY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

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 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 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 DIRECTORS

Accepted for File Bv: Gilbert LaForce, P.E. **Engineering Manager** Date: 09/27/2023 4:11:36 PM El Paso County Department of Public Works

PCD FILE NO. CDR2315



S. K

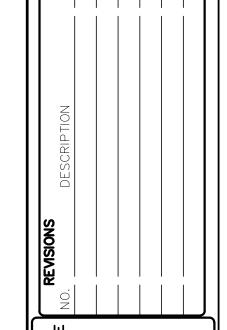
SUB

SIGNED BY JF AWN BY HECKED BY LD

SCALE AS SHOW SCALE NA DB NO. 2335.00

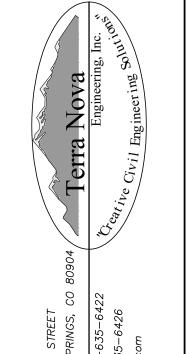
ATE ISSUED 9/18/2 HEET NO. 1 OF

FALCON SUB TIE LINE EL PASO COUNTY, CO GRADING, EROSION, & SEDIMENT CONTROL PLAN SEPTEMBER 2023



UNTIL SUCH TIME AS THESI
DRAWINGS ARE APPROVED
3Y THE APPROPRIATE
REVIEWING AGENCIES,
TERRA NOVA ENGINEERING,
NC. APPROVES THEIR USE
ONLY FOR THE
OURPOSES DESIGNATED BY
WRITTEN AUTHORIZATION.

MVEA TTN: DAVE WALDNER 1140 E. WOODMEN RD PEYTON, CO 80831 (719) 495-2283



COLORAL
CONTROL PLAN
FAX: 71
www.tnes

FALCON FALCON FADING, EROSION, EROSION,

DESIGNED BY JF DRAWN BY JF

THIS DESIGN WAS PREPARED UNDER MOTHER SUPERVISION FOR AND ON BEHALF OF TERRA MOTA ENGINEERING, INC.

9/18/2023

L DUCETT, P.E.

COLORADO P.E. NO. 32339

CHECKED BY LD

H-SCALE AS SHOW

V-SCALE NA

V-SCALE NA

JOB NO. 2335.00

DATE ISSUED 9/18/23

SHEET NO. 2 OF 6

GRADING PLAN NOTES

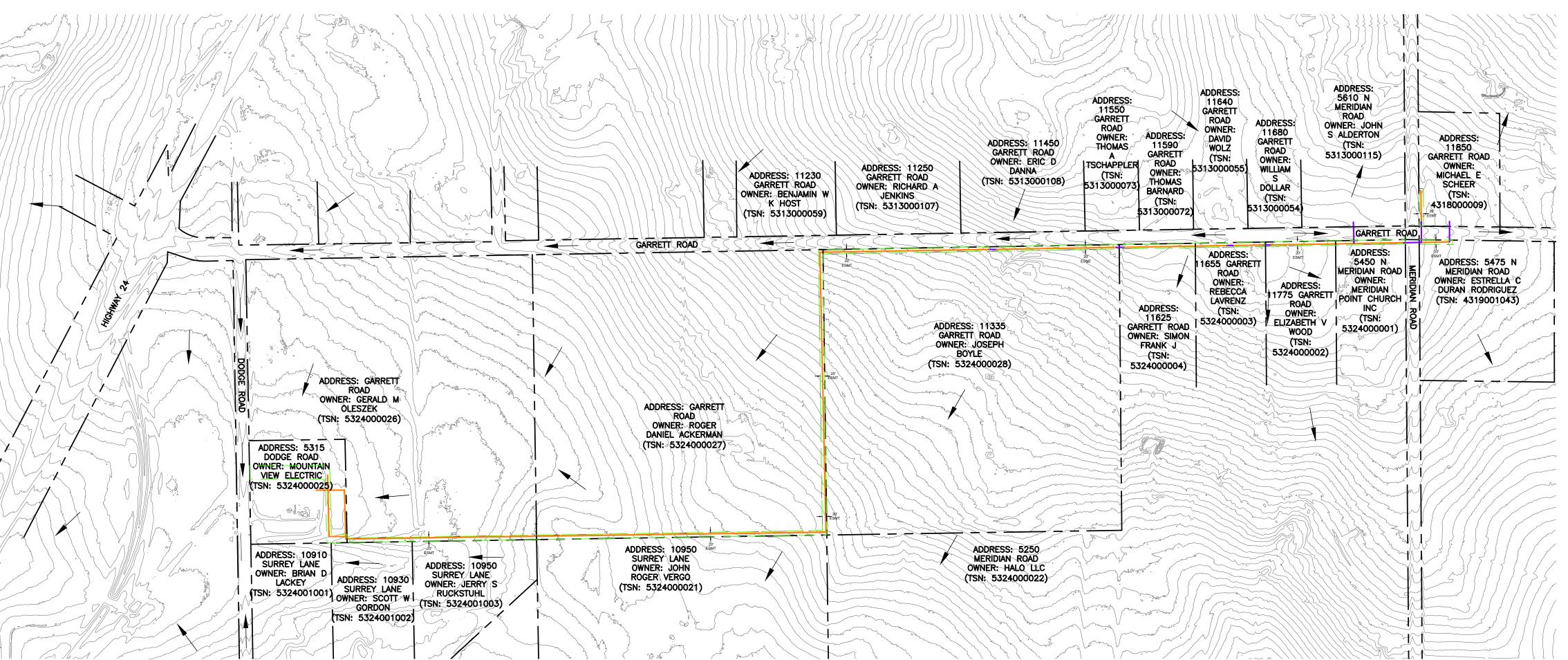
LEGEND

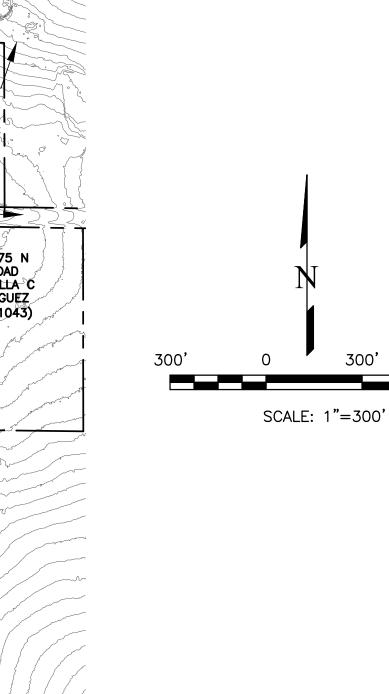
EXISTING 2' CONTOUR

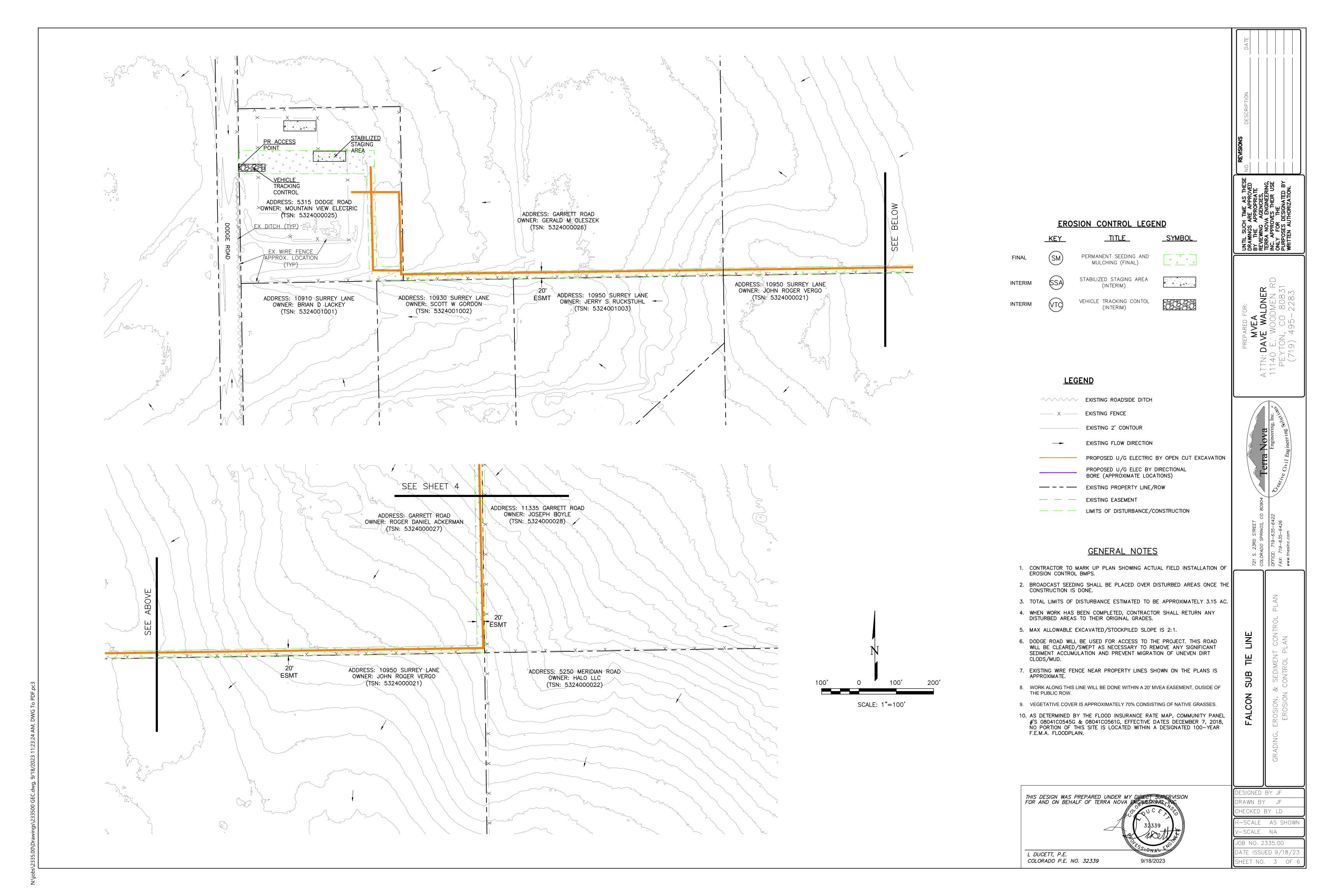
PROPOSED U/G ELECTRIC BY OPEN CUT EXCAVATION

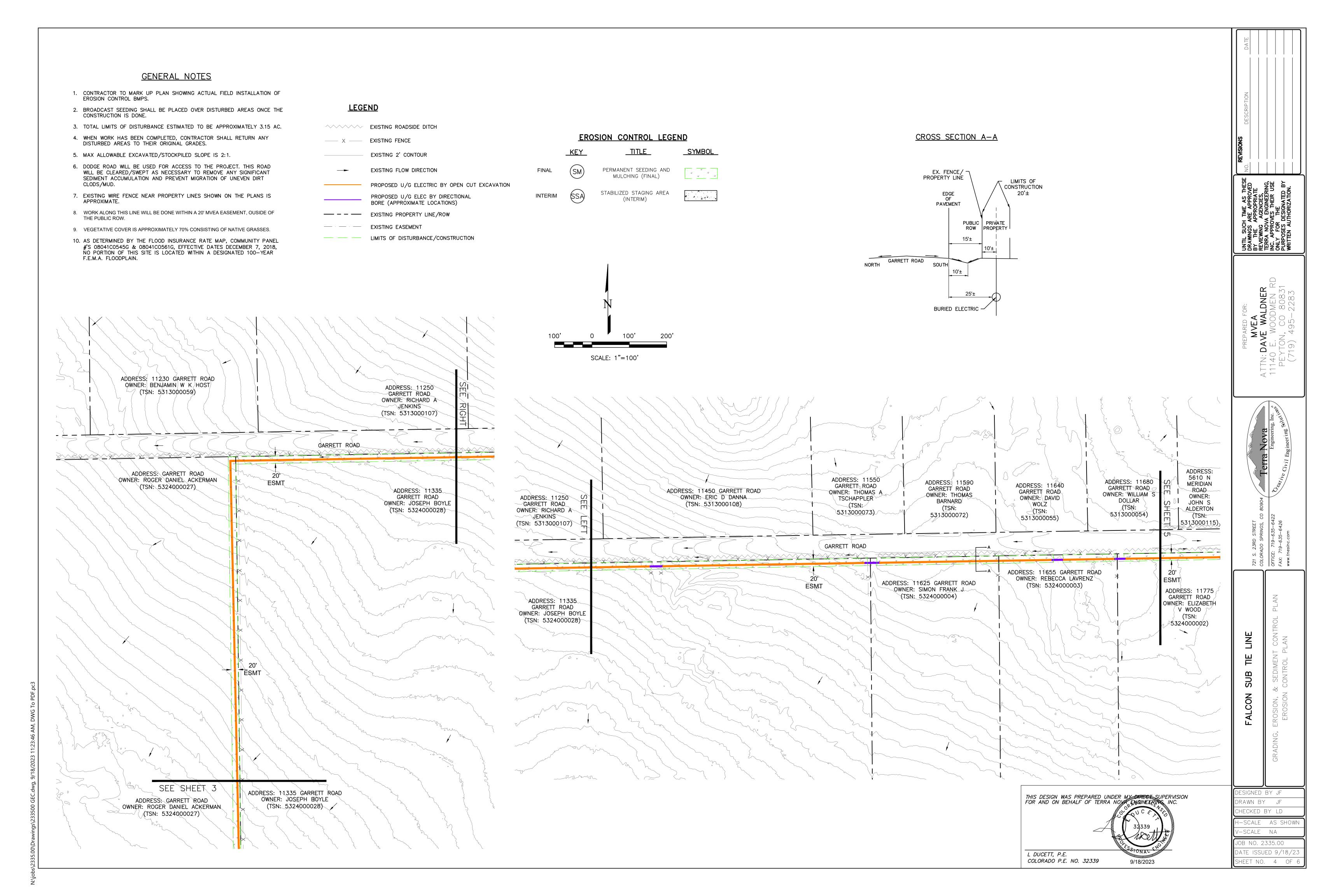
LIMITS OF DISTURBANCE/CONSTRUCTION

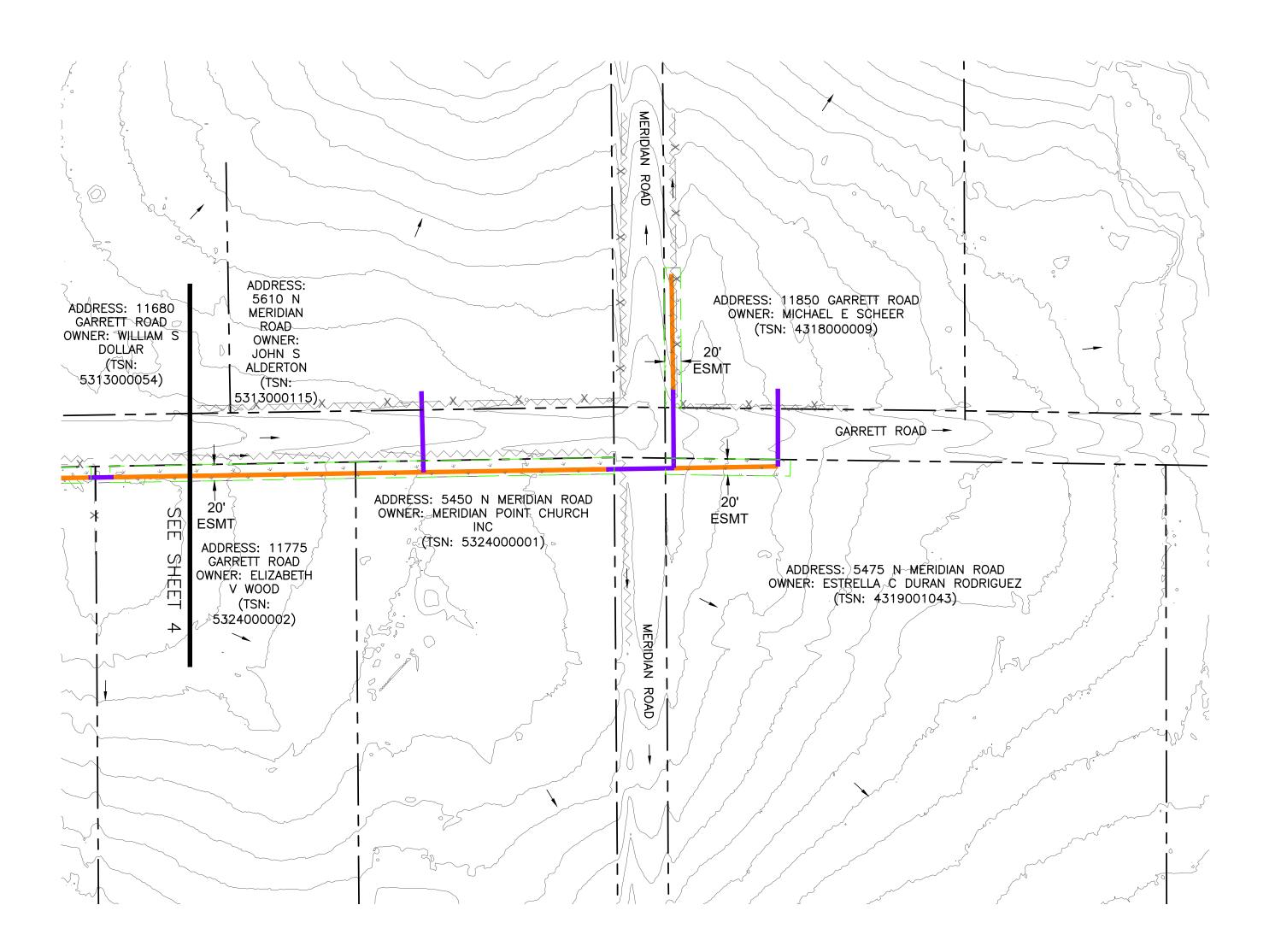
- OJECT LOCATION IS IN EL PASO COUNTY COLORADO. APPROXIMATE SITE LOCATION IS AT LATITUDE 38.9087°, LONGITUDE -1
- FINAL STABILIZATION REQUIREMENTS SHALL BE BASED ON THE REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, UTILITIES AND CULVERTS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ENGINEER
- 5. CONTRACTOR TO PROTECT EXISTING UTILITIES AND MAINTAIN EXISTING DRAINAGE PATTERNS AT ALL TIMES.
- 6. CONTRACTOR TO VERIFY RIGHT OF WAY LIMITS PRIOR TO CONSTRUCTION.
- 7. EXISTING FEATURES (FENCE, MAILBOX, SIGN, ETC.) THAT ARE DISTURBED AS PART OF THE TEMPORARY IMPROVEMENT SHALL BE REINSTALLED OR REPLACED II
- 8. CONTRACTOR SHALL CALL 811, ONE CALL ENTITIES PRIOR TO CONSTRUCTION. ALL HAZARDS SHALL BE ASSESSED PRIOR TO CONSTRUCTION
- 9. EXCAVATED SOIL SHALL BE PLACED ON THE UPSTREAM SIDE OF THE TRENCH.
- 10. WORK ALONG THIS LINE WILL BE DONE WITHIN A 20' MVEA EASEMENT OUTSIDE OF THE PUBLIC RIGHT OF WAY.
- 11. SOIL WILL BE PLACED BESIDE THE TRENCH WHEN IT IS DUG UP AND PLACED BACK IN THE TRENCH ONCE WORK IN THAT AREA IS COMPLETED.

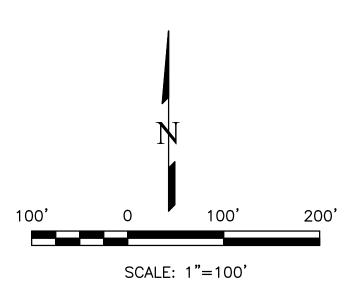












EROSION CONTROL LEGEND

(INTERIM)

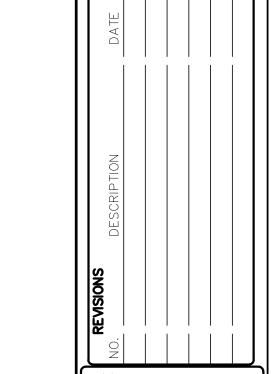
<u>SYMBOL</u> PERMANENT SEEDING AND MULCHING (FINAL) STABILIZED STAGING AREA INTERIM

LEGEND

EXISTING ROADSIDE DITCH — X — EXISTING FENCE EXISTING 2' CONTOUR EXISTING FLOW DIRECTION PROPOSED U/G ELECTRIC BY OPEN CUT EXCAVATION PROPOSED U/G ELEC BY DIRECTIONAL BORE (APPROXIMATE LOCATIONS) — — — EXISTING PROPERTY LINE/ROW — EXISTING EASEMENT — — LIMITS OF DISTURBANCE/CONSTRUCTION

GENERAL NOTES

- CONTRACTOR TO MARK UP PLAN SHOWING ACTUAL FIELD INSTALLATION OF EROSION CONTROL BMPS.
- 2. BROADCAST SEEDING SHALL BE PLACED OVER DISTURBED AREAS ONCE THE CONSTRUCTION IS DONE.
- 3. TOTAL LIMITS OF DISTURBANCE ESTIMATED TO BE APPROXIMATELY 3.15 AC.
- 4. WHEN WORK HAS BEEN COMPLETED, CONTRACTOR SHALL RETURN ANY DISTURBED AREAS TO THEIR ORIGINAL GRADES.
- 5. MAX ALLOWABLE EXCAVATED/STOCKPILED SLOPE IS 2:1.
- 6. DODGE ROAD WILL BE USED FOR ACCESS TO THE PROJECT. THIS ROAD WILL BE CLEARED/SWEPT AS NECESSARY TO REMOVE ANY SIGNIFICANT SEDIMENT ACCUMULATION AND PREVENT MIGRATION OF UNEVEN DIRT CLODS/MUD.
- 7. EXISTING WIRE FENCE NEAR PROPERTY LINES SHOWN ON THE PLANS IS APPROXIMATE.
- 8. WORK ALONG THIS LINE WILL BE DONE WITHIN A 20' MVEA EASEMENT, OUSIDE OF THE PUBLIC ROW.
- 9. VEGETATIVE COVER IS APPROXIMATELY 70% CONSISTING OF NATIVE GRASSES.
- 10. AS DETERMINED BY THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL #'S 08041C0545G & 08041C0561G, EFFECTIVE DATES DECEMBER 7, 2018, NO PORTION OF THIS SITE IS LOCATED WITHIN A DESIGNATED 100-YEAR F.E.M.A. FLOODPLAIN.



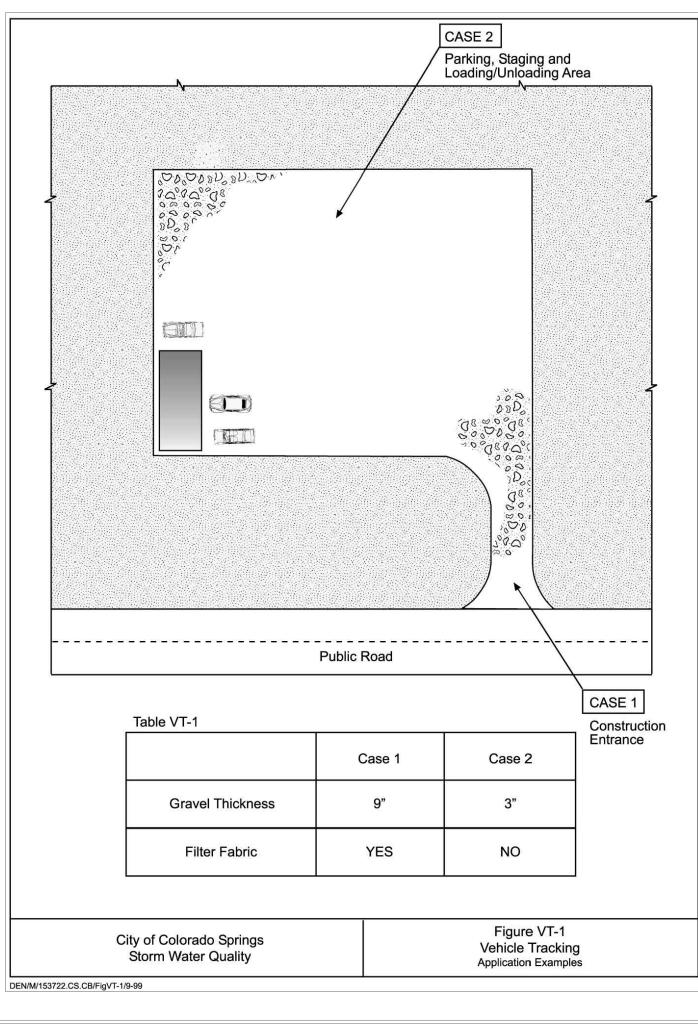
UNTIL SUCH DRAWINGS BY THE REVIEWING TERRA NOV INC. APPRO ONLY FOR PURPOSES

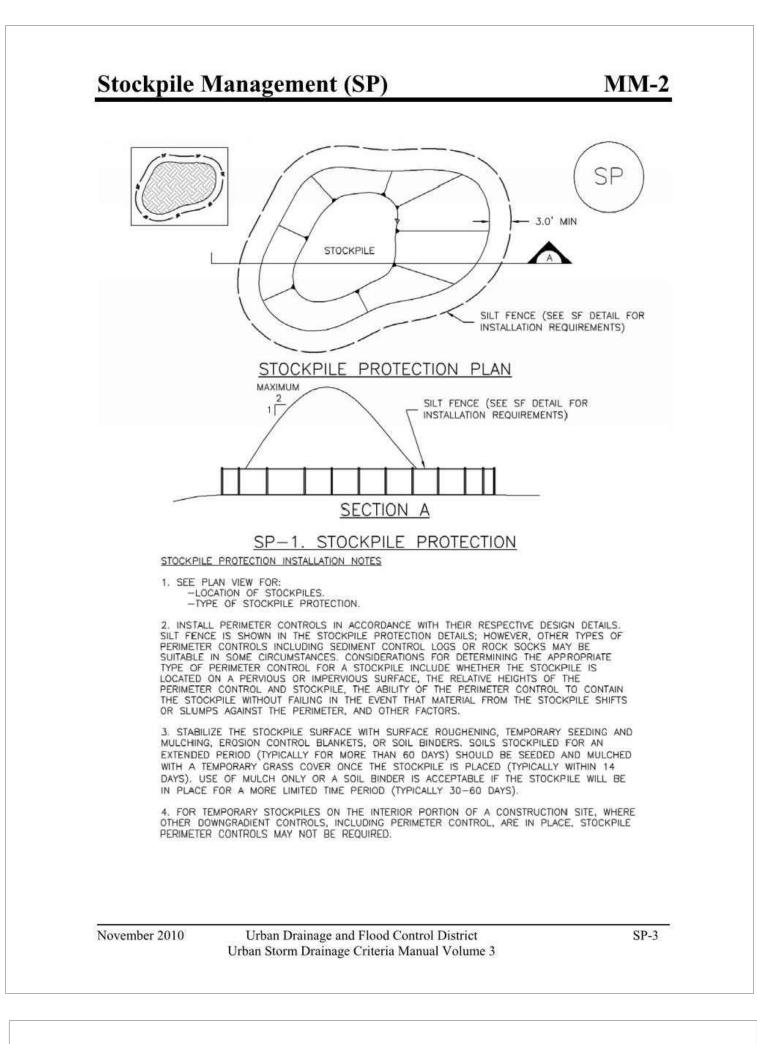
THIS DESIGN WAS PREPARED UNDER MY DIRECTION SHOPER VISION FOR AND ON BEHALF OF TERRA NOVA FOR CONFERING THE CONTROL OF THE PROPERTY OF THE PRO L DUCETT, P.E. COLORADO P.E. NO. 32339 9/18/2023

ESIGNED BY JF RAWN BY JF HECKED BY LD

-SCALE AS SHOW -SCALE NA DB NO. 2335.00 ATE ISSUED 9/18/23

HEET NO. 5 OF (

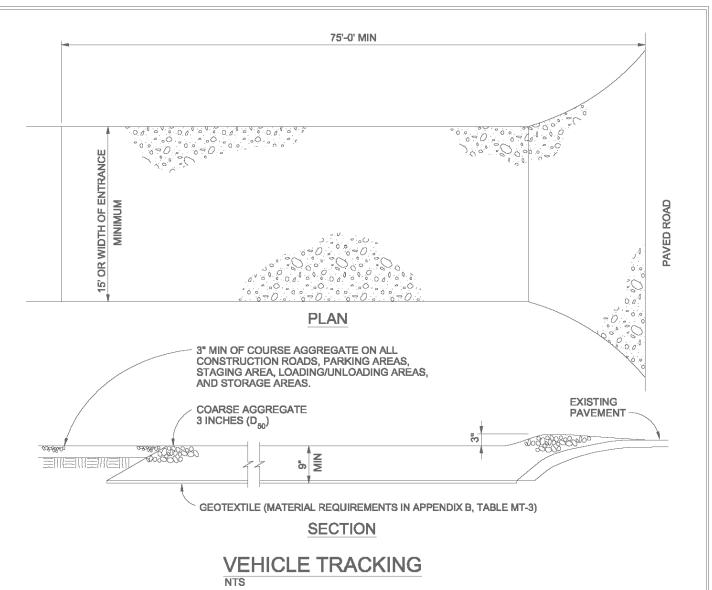




Stockpile Management (SM) MM-2STOCKPILE PROTECTION MAINTENANCE NOTES 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. STOCKPILE PROTECTION MAINTENANCE NOTES 4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY. 5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE (DETAILS ADAPTED FROM 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.

November 2010

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION. 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 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. STABILIZED STAGING AREA MAINTENANCE NOTES 1. 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. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED. November 2010 Urban Drainage and Flood Control District SSA-3 Urban Storm Drainage Criteria Manual Volume 3



VEHICLE TRACKING NOTES

INSTALLATION REQUIREMENTS 1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION

2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.

3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE. 4. CONSTRUCTION ROADS, PARKING AREAS,

LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED. 5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE

City of Colorado Springs

Figure VT-2 Vehicle Tracking

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL

2. STONES ARE TO BE REAPPLIED PERIODICALLY AND

3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE

REMOVED DAILY BY SHOVELING OR SWEEPING.

SEDIMENT IS NOT TO BE WASHED DOWN STORM

4. STORM SEWER INLET PROTECTION IS TO BE IN

PLACE, INSPECTED, AND CLEANED IF NECESSARY.

5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING

STABILIZED AREAS, ESPECIALLY AFTER STORM

WHEN REPAIR IS NECESSARY.

SEWER DRAINS.

or irrigation to wet and settle the seed bed. Firming of the seedbed following seeding will improve results during dry or warm seeding times.

Table 14-9. Recommended Seed Mix for High Water Table Conditions¹

Common Name (Variety)	Scientific Name	Growth Season	Growth Form	Seeds/Lb	Lbs PLS/ Acre Drilled	Lbs PLS/Acre Broadcast or Hydroseeded
Redtop ²	Agrostis alba	Warm	Sod	5,000,000	0.1	0.2
Switchgrass (Pathfinder)	Panicum virgatum	Warm	Sod/ Bunch	389,000	2.2	4.4
Western wheatgrass (Arriba)	Pascopyrum smithii	Cool	Sod	110,000	7.9	15.8
Indian saltgrass	Distichlis spicata	Warm	Sod	520,000	1.0	2.0
Wooly sedge	Carex lanuginose	Cool	Sod	400,000	0.1	0.2
Baltic rush	Juncus balticus	Cool	Sod	109,300,000	0.1	0.2
Prairie cordgrass	Spartina pectinata	Cool	Sod	110,000	1.0	2.0
Annual rye	Lolium multiflorum	Cool	Cover crop	227,000	10.0	20.0
	2	9		TOTAL	22.4	44.8
Wildflowers						· · · · · · · · · · · · · · · · · · ·
Nuttall's sunflower	Helianthus nuttallii			250,000	0.10	0.20
Wild bergamot	Monarda fistulosa		\$ <u> </u>	1,450,000	0.12	0.24
Yarrow	Achillea millefolium	(man)	ē 	2,770,000	0.06	0.12
Blue vervain	Verbena hastata	17775	6 		0.12	0.24
		3		TOTAL	0.40	0.80

'For portions of facilities located near or on the bottom or where wet soil conditions occur. Planting of potted nursery stock wetland plants 2-foot on-center is recommended for sites with wetland hydrology.

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Chapter 14

Table 14-10. Recommended Seed Mix for Transition Areas

Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3

Common Name (Variety)	Scientific Name	Growth Season	Growth Form	Seeds/Lb	Lbs PLS/Acre Drilled	Lbs PLS/Acre Broadcast or Hydroseeded
Sheep fescue (Durar)	Festuca ovina	Cool	Bunch	680,000	1.3	2.6
Western wheatgrass (Arriba)	Pascopyrum smithii	Cool	Sod	110,000	7.9	15.8
Alkali sacaton	Spolobolus airoides	Warm	Bunch	1,758,000	0.5	1.0
Slender wheatgrass	Elymus trachycaulus	Cool	Bunch	159,000	5.5	11.0
Canadian bluegrass (Ruebens) ¹	Poa compressa	Cool	Sod	2,500,000	0.3	0.6
Switchgrass (Pathfinder)	Panicum virgatum	Warm	Sod/ Bunch	389,000	1.3	2.6
Annual rye	Lolium multiflorum	Cool	Cover crop	227,000	10.0	20.0
				TOTAL	26.8	53.6
Wildflowers						
Blanket flower	Faillardia aristata			132,000	0.25	0.50
Prairie coneflower	Ratibida columnaris		2500.0	1,230,000	0.20	0.40
Purple prairie clover	Petalostemum purpurea			210,000	0.20	0,40
Gayfeather	Liatris punctata	E-240		138,000	0.06	0.12
Flax	Linum lewisii	1		293,000	0.20	0.40
Penstemon	Penstemon strictus			592,000	0.20	0.40
Yarrow	Achillea millefolium	I TOTAL		2,770,000	0.03	0.06
		6	6			0.

TOTAL 1.14 2.28

May 2014

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

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SM-6

Stabilized Staging Area (SSA)

CONSTRUCTION SITE ACCESS

STABILIZED

ENTRANCE (SEE -DETAILS VTC-1

TO VTC-3)

1. SEE PLAN VIEW FOR

_____ SF/CF _____ SF/CF ___

PARKING (1F

NEEDED)

__ SF/CF ____ SF/CF __

SSA-1. STABILIZED STAGING AREA

-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL

EXISTING ROADWAY

STABILIZED STAGING AREA INSTALLATION NOTES

-LOCATION OF STAGING AREA(S).

ONSITE ON THE ONE OF THE ORIGINAL THE ORIGIN

CONSTRUCTION

3" MIN. THICKNESS GRANULAR MATERIAL

FENCING AS NEEDED

SILT FENCE OR CONSTRUCTION

Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

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.

SCALE NA)B NO. 2335.00 ATE ISSUED 9/18/2

HEET NO. 6 OF

THIS DESIGN WAS PREPARED UNDER MY DIRECT SURFERVISION FOR AND ON BEHALF OF TERRA NOVA PROGRESSIONS. L DUCETT, P.E.

9/18/2023

COLORADO P.E. NO. 32339

SM-6

 \vdash

SIGNED BY LD RAWN BY JF HECKED BY LD

SCALE AS SHOW

Stormwater Quality **Application Examples**