# MY GARAGE @ NORTHCREST GRADING AND EROSION CONTROL PLANS PREPARED FOR K&S DEVELOPMENT, LLC

	PROJECT SPECIFIC GRADING AND EROSION CONTROL NOTES	4
•	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	
2	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	
3.	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	
4.	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	Í
_	of the applicant to coordinate the meeting time and place with County staff.	1
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	
i.	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.	
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.	1
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 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	
11.	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 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	
10	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.	
	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.	
17.	Waste materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in	1
	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.	1
8.	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	
20	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	
20.	to perform the work in an orderly sequence. All materials stored on-site shall be stored in a neat, orderly manner,	
21.	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 onsite unless permission	1
	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	
23.	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.	
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.	
	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.	I
	A water source shall be available on site during earthwork operations and shall be utilized as required to minimize	I
28.	dust from earthwork equipment and wind. The soils report for this site has been prepared by RMG Engineers/Architects, Inc (Dated: March 11, 2024) and	I
29.	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,	I
	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:	l
	Colorado Department of Public Health and Environment Water Quality Control Division	
	WQCD - Permits	
	4300 Cherry Creek Drive South Denver, CO 80246-1530	
80.	Attn: Permits Unit Base mapping was provided by Land Development Consultants. The date of the last survey update was	l
	July 27, 2021. Proposed Construction Schedule:	1
,.	Begin Construction: Summer 2024	I
	End Construction: Winter 2024 Total Site Area = 3.25 Acres	I
32.	Area to be disturbed = 3.26 Acres.	I
	Existing 100-year runoff coefficient = 0.37 Proposed 100-year runoff coefficient = 0.70	l
	Existing Hydrologic Soil Groups: A	1
	(ATruckton sandy loam)	1
	(ATruckton sandy loam) Site is currently undeveloped and covered with native grasses on moderate to steep slopes (2%-25%).	
34.		
4.	Site is currently undeveloped and covered with native grasses on moderate to steep slopes (2%-25%). Site is located in the Sand Creek Drainage Basin.	

SEED MIX EAS DISTURBED BY THE EARTHWORK ACTIVITIES AND NOT RECEIVING OTHER EATMENT SHALL BE PERMANENTLY REVEGETATED WITH THE FOLLOWING SEED MI <u>ECIES</u> VARIETY EOATS GRAMA El Reno STERN WHEAT GRASS Barton ENDER WHEAT GRASS Native FLE BLUESTEM Pastura D DROPSEED Native ITCH GRASS Nebraska 28 WEEPING LOVE GRASS Morpha

EROSION CONTROL INSPECTION

A Thorough Inspection of the Erosion Control

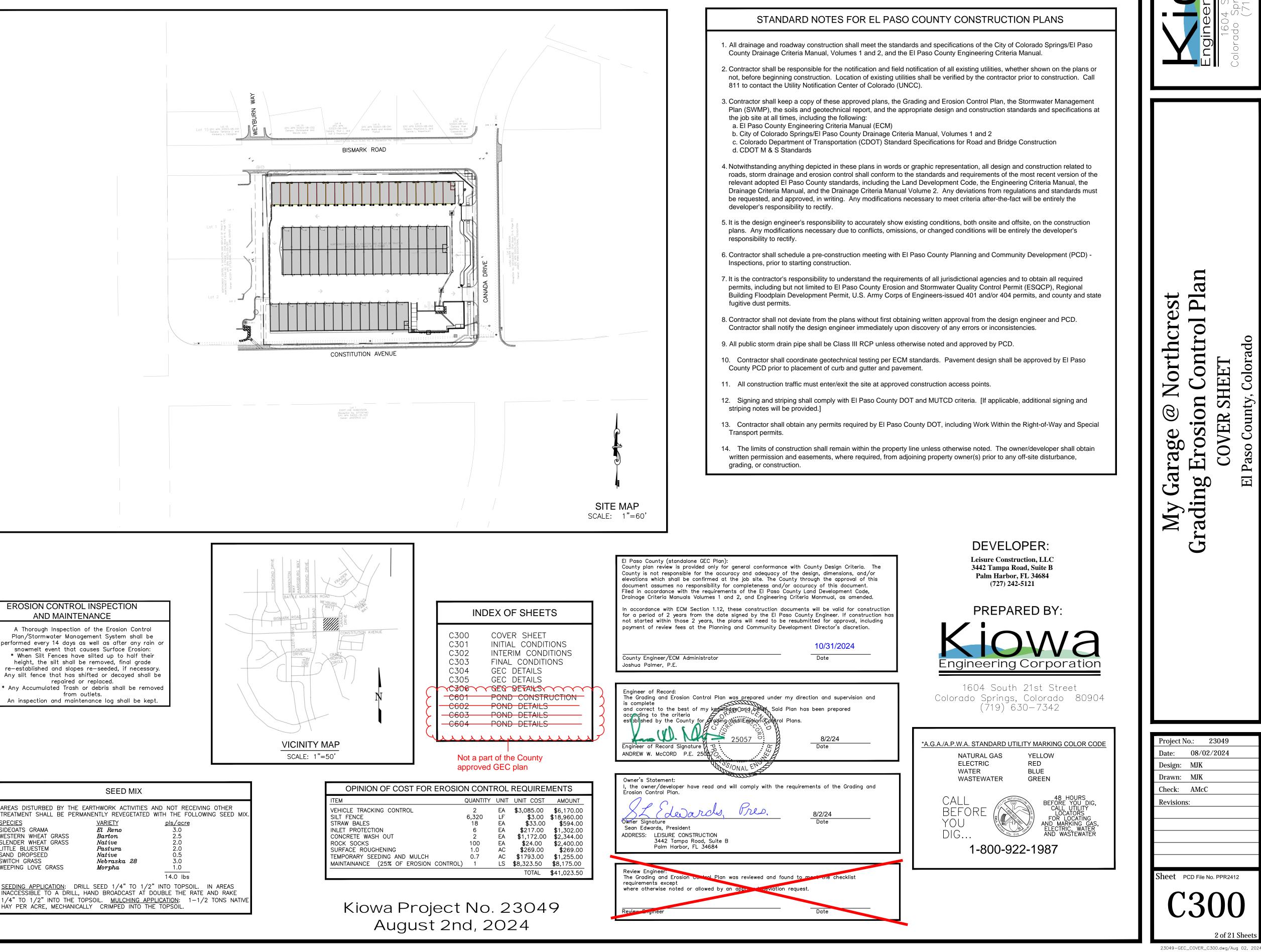
snowmelt event that causes Surface Erosion:

height, the silt shall be removed, final grade

repaired or replaced.

from outlets.

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Grading

08/02/2024

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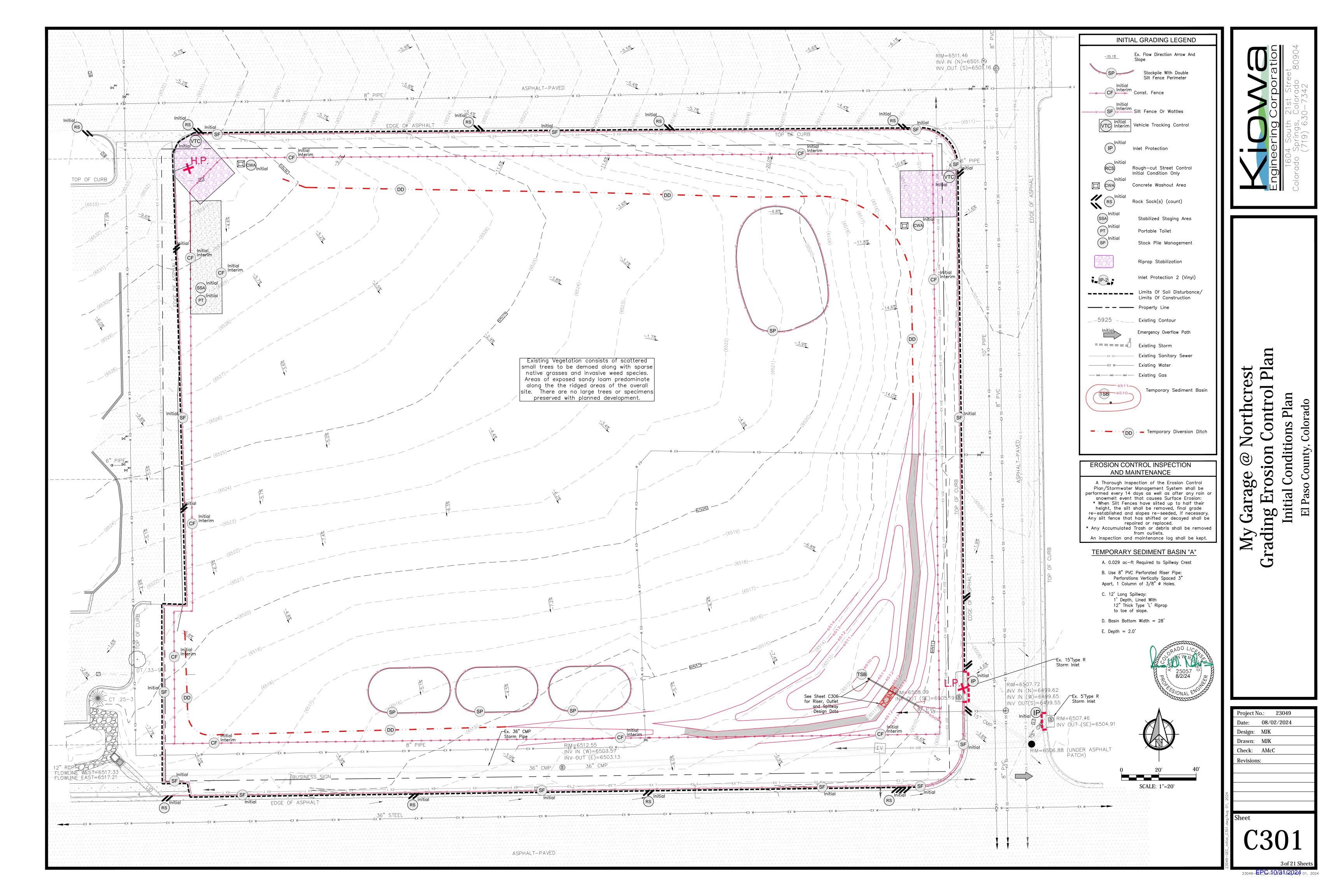
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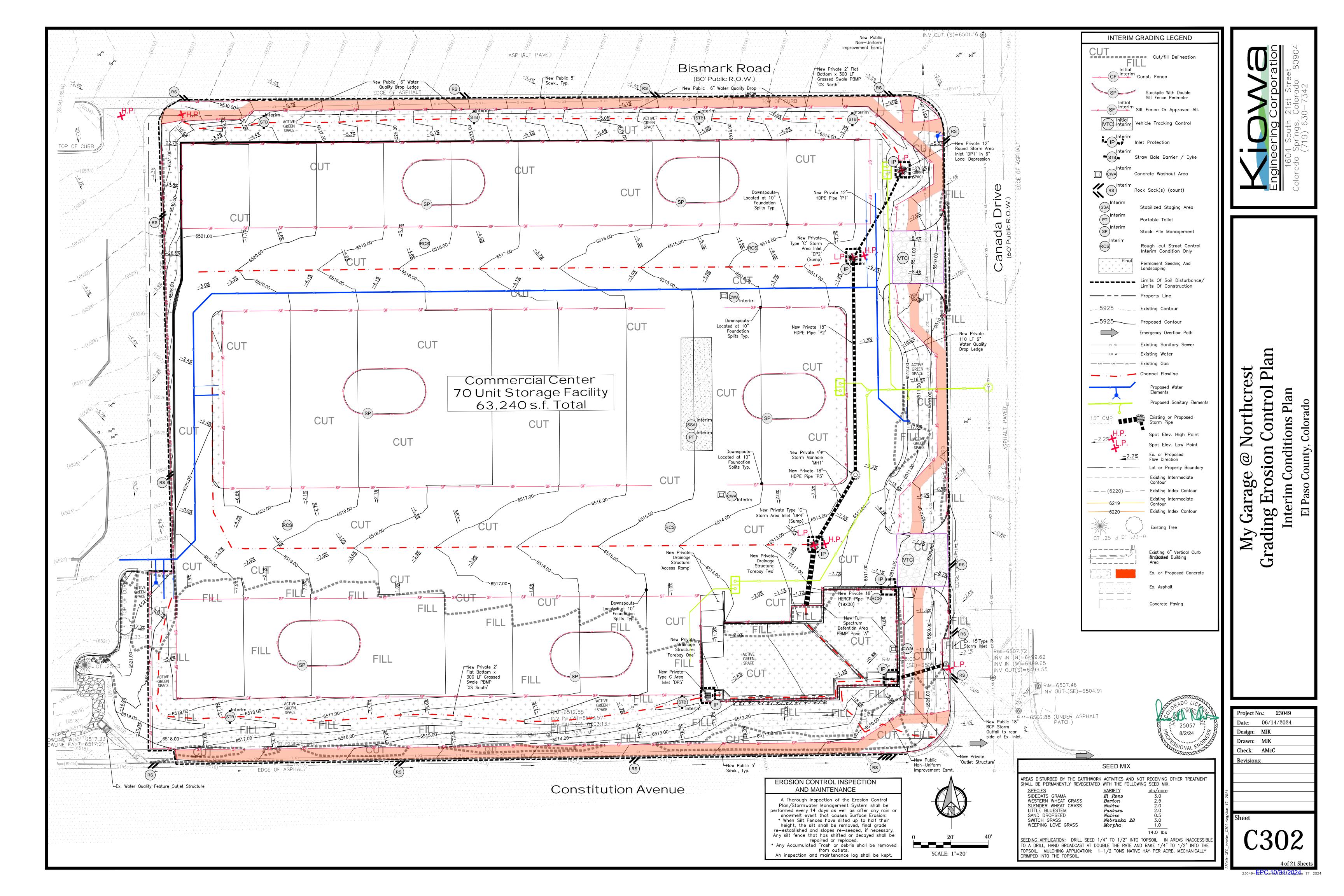
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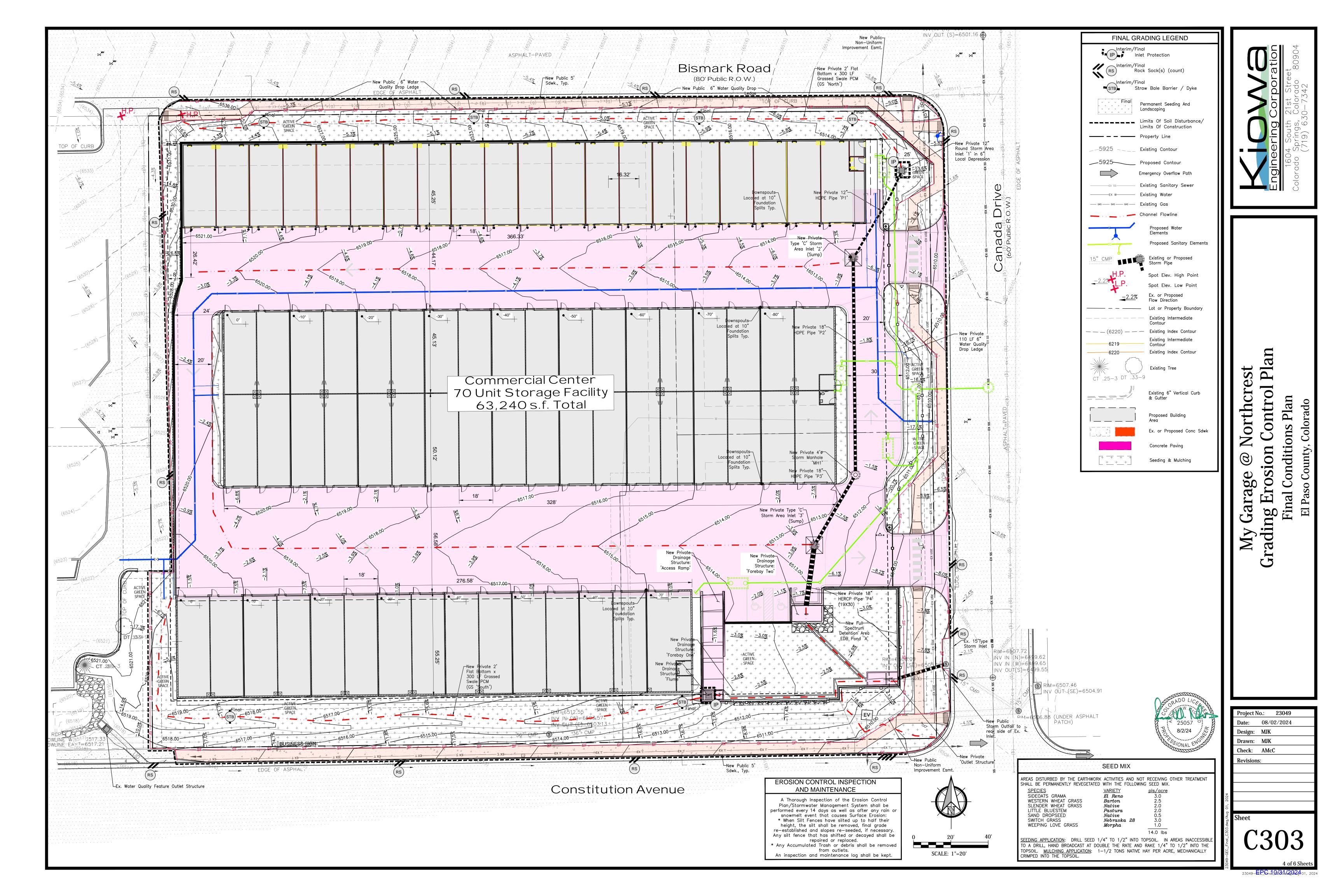
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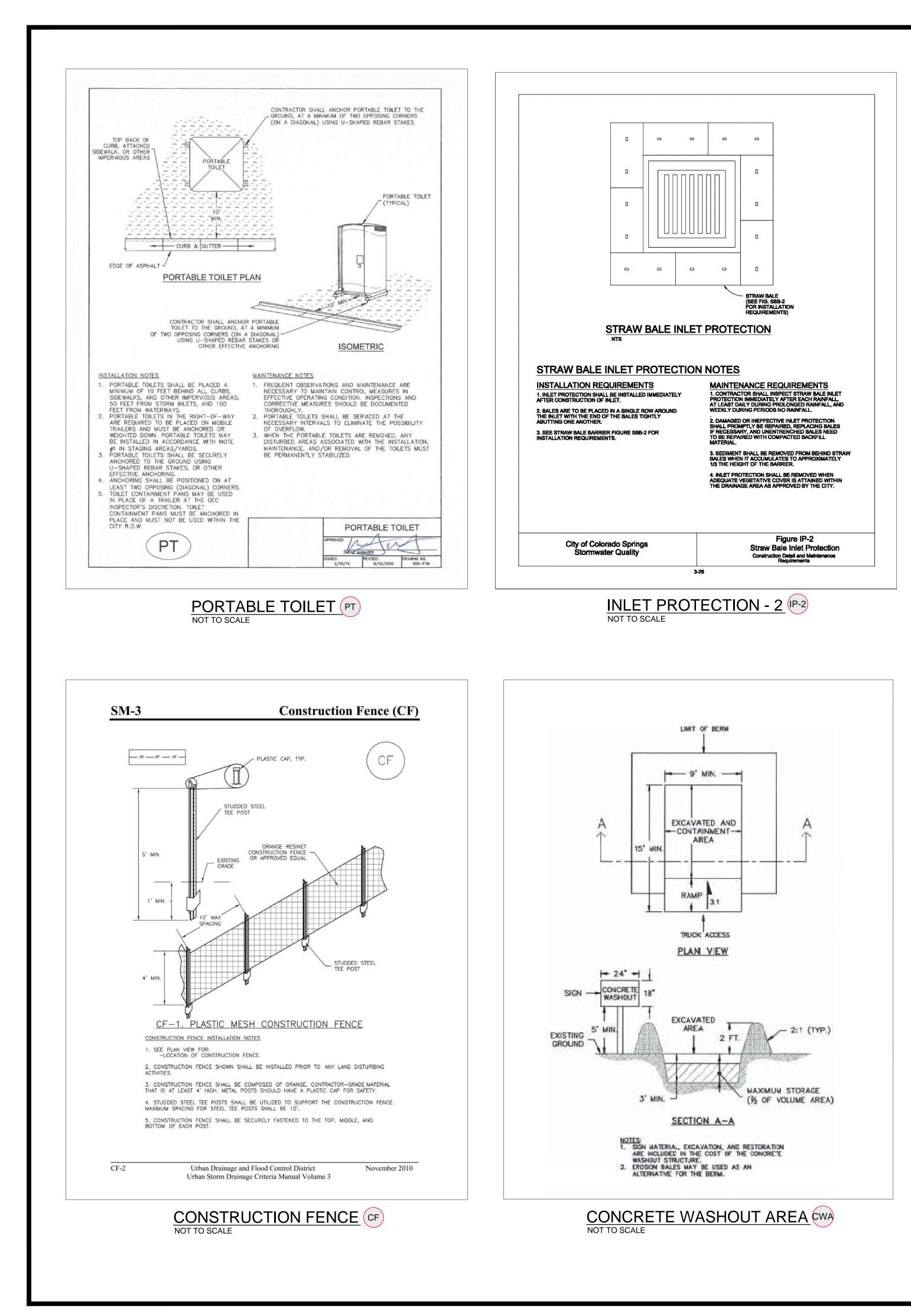
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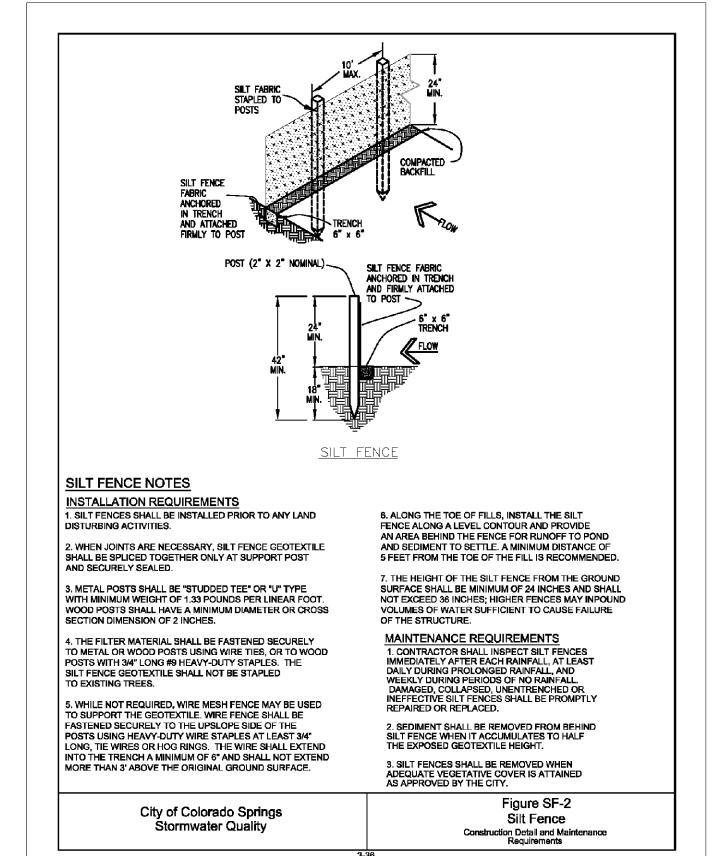
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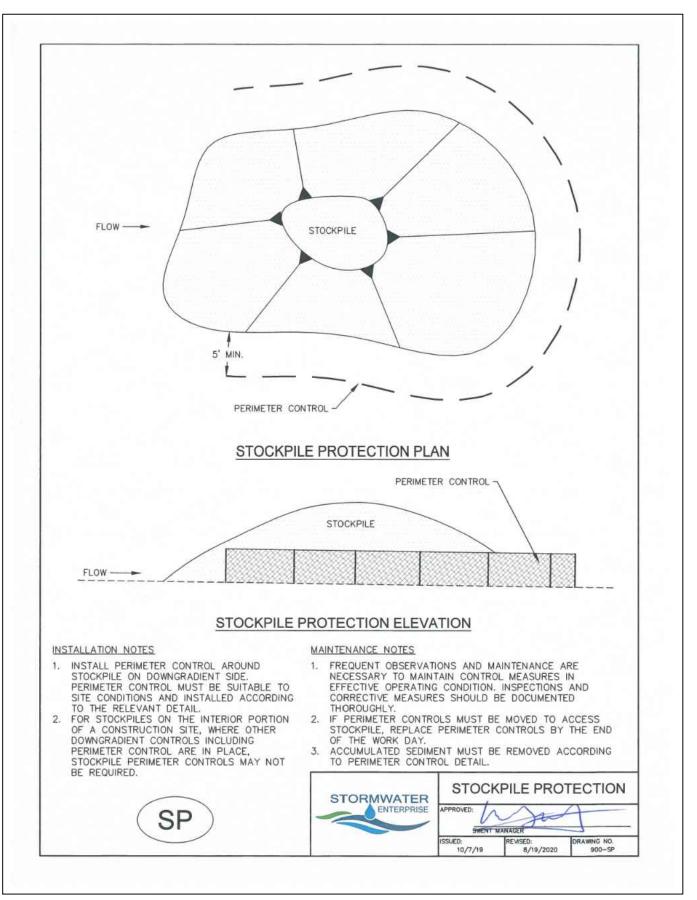




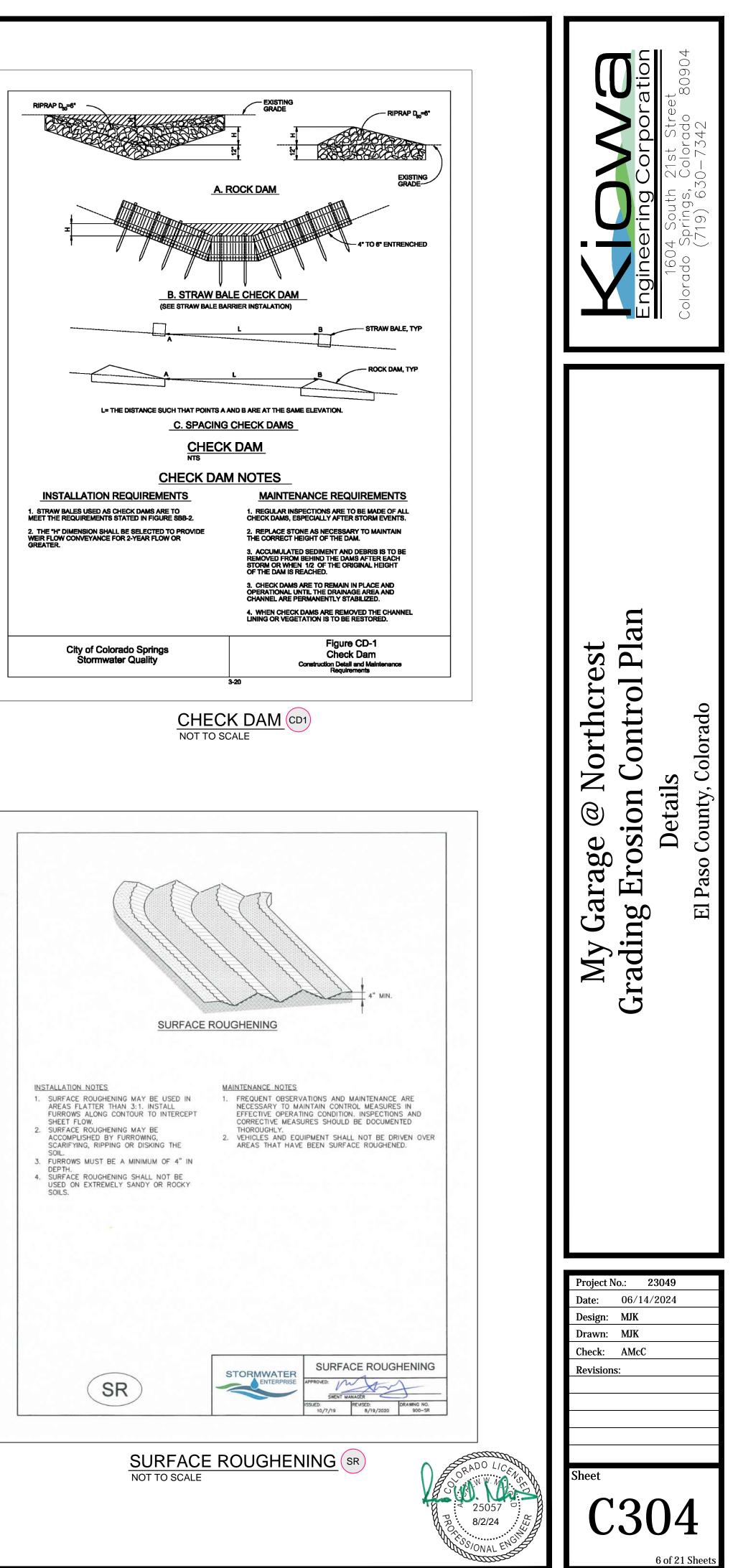






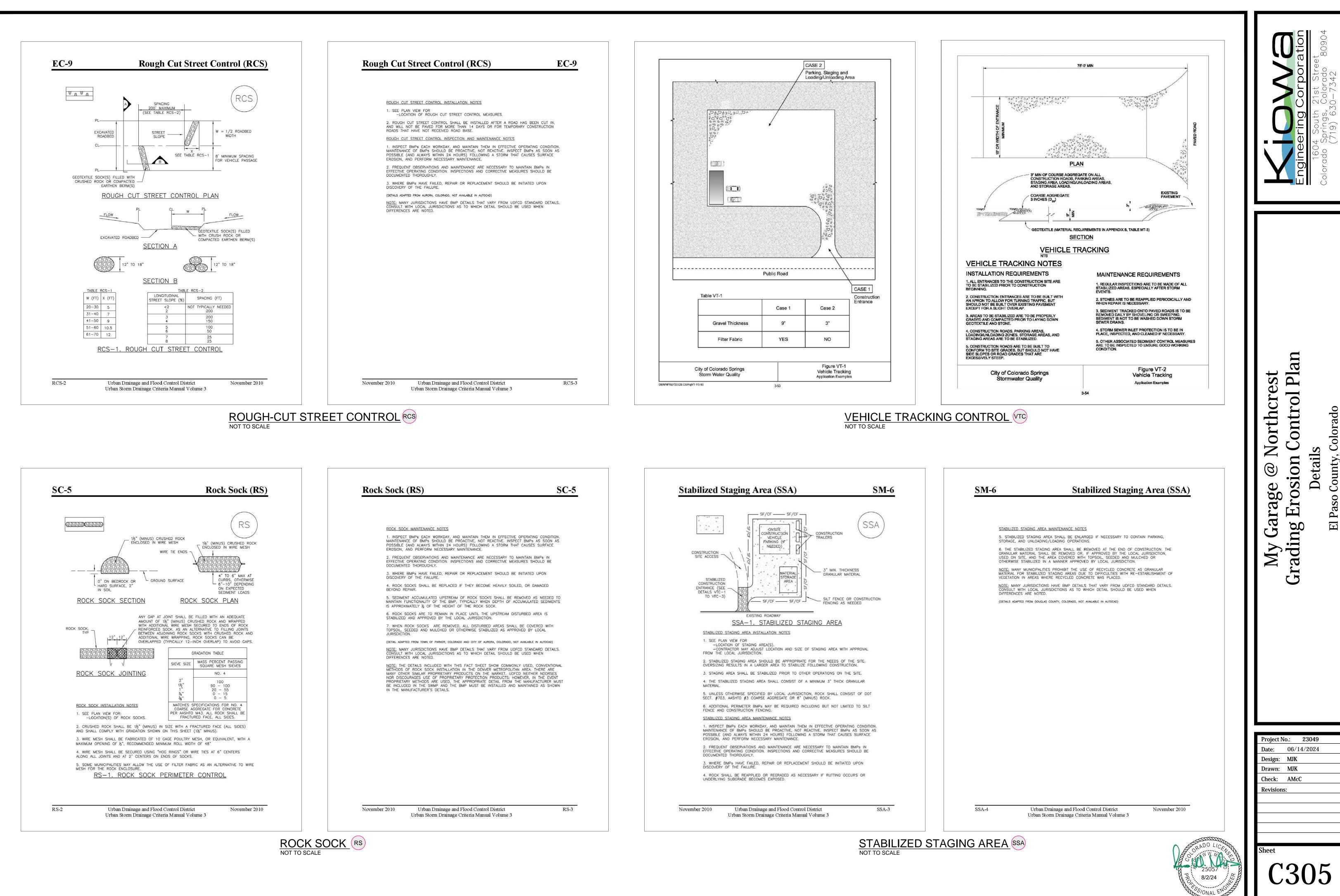


STOCKPILE PROTECTION



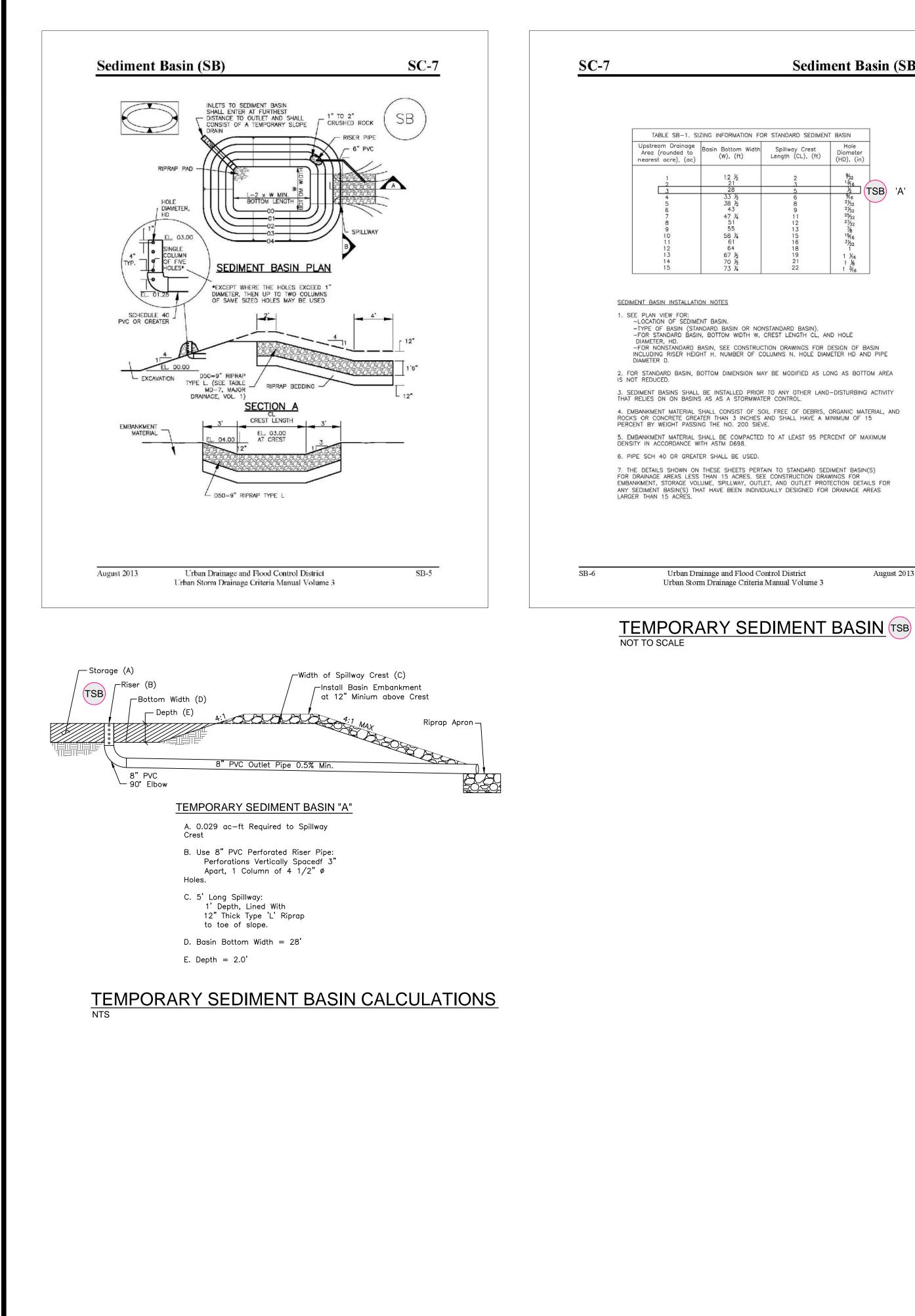
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## Sediment Basin (SB)

August 2013

### Sediment Basin (SB)

**SB-7** 

SEDIMENT BASIN 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.

2. 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.

4. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).

5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION. 6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION. (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

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.

Urban Drainage and Flood Control District August 2013 Urban Storm Drainage Criteria Manual Volume 3

SEEDING & MULCHING         ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS         MUST BE ADDED TO THE CSWMP.         SOIL PREPARATION         1. IN AREAS TO BE SEEDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRIABLE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS.         2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.         3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.         4. TOPSOIL, SHALL BE PROTECTED DURING AND/OR IMPORTED TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.         5. TOPSOIL, SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE AVDID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STARED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE AVDID COMPACTION, AND TO PREVENT TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION PERIOD TO RETAIN UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION PERIOD TO RETAIN UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN AN AREA AWAY FROM MACHINERY ARE ACCEPTREAD.	Engineering ColoradoSoloradoSolor1604South21stStreet719630-734280904
PRILL OR HYDRO-SEEDING PROACAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL  MULCHING NULCHEM BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING. MULCHING REQUIREMENTS INCLUE: HAY OR STRAW MULCH ONLY CERTIFIED WED-REE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND DEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER. ONLY CERTIFIED WED-REE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER. CRIMPING ANUST BOT BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1. HYDRAULC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED. IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE. CROSION CONTROL BLANKET CROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.  SEEDING CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.  SEEDING CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.  SEEDING CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.  SEEDING CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.	rest I Plan
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Project No.: 23049 Date: 08/02/2024

Design: MJK



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