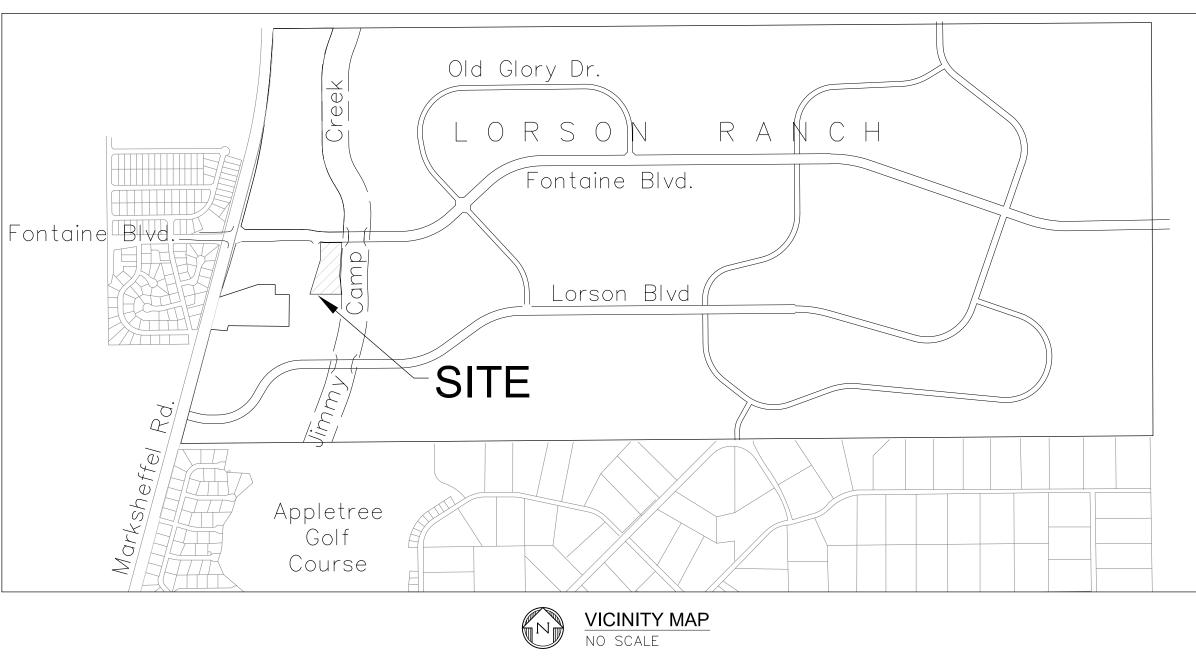
CARRIAGE MEADOW SOUTH AT LORSON RANCH FILING NO. 2

EARLY GRADING PLANS AND DETAILED GRADING PLANS



Engineering Review 02/11/2020 2:16:34 PM dsdrice JeffRice@elpasoco.com (719) 520-7877 **EPC Planning & Community Development Department**

See comment letter and checklist also.

LEGEND



PROPOSED STORM SEWER

WATER / SANITARY WIDEFIELD WATER AND SANITATION DISTRICT 8495 FONTAINE BLVD. COLORADO SPRINGS, CO 80925 719-390-7111

CABLE COMCAST P.O. BOX 173838 DENVER, CO 80217 970-641-4774

ELECTRIC MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN RD. COLORADO SPRINGS, CO 80831 719-495-2283

SECURITY FIRE PROTECTION DISTRICT 400 SECURITY BOULEVARD SECURITY, CO 80911 719-392-7121

TELEPHONE CENTURYLINK

7925 INDUSTRY ROAD COLORADO SPRINGS, CO 80939 719-278-4651

GAS BLACK HILLS ENGERGY 7060 ALLEGRE ST. FOUNTAIN, CO 80817 719-393-6639

EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, CO 80910 719-520-6300

BASIS OF BEARING

BEARINGS ARE BASED ON THE SOUTH LINE OF THE NORTH HALF OF SECTION 23, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN AS BEING SOUTH 8941'52" WEST. THE EAST QUARTER CORNER OF SAID SECTION 23 IS A FOUND 3-1/2" ALUMINUM CAP MONUMENT AND THE WEST QUARTER CORNER OF SAID SECTION 23 IS A FOUND 2-1/2" ALUMINUM CAP MONUMENT

BENCHMARK

FIMS MONUMENT F204 LOCATED AT THE NORTHWEST CORNER OF FONTAINE BLVD AND COTTONWOOD GROVE DR. ELEVATION 5724.072 (N.G.V.D. 29)

TRAFFIC CONTROL NOTE

THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES AND MONITORING NECESSARY TO SAFELY COMPLETE THE WORK SHOWN IN THESE CONSTRUCTION DOCUMENTS IN CONFORMANCE WITH M.U.T.C.D. GUIDELINES. THE CONTRACTOR SHALL COMPLETE ALL NECESSARY WORK FOR PLAN REVIEW, PERMITS AND PROCESSING. TRAFFIC CONTROL WILL NOT BE PAID SEPARATELY BUT IS INCLUDED IN THE COST OF THE PROJECT.

PREPARED FOR: LORSON, LLC N. WAHSATCH AVE., SUITE 301 COLORADO SPRINGS, CO 80903 719-635-3200 CONTACT: JEFF MARK

PREPARED BY: CORE ENGINEERING GROUP 15004 1ST AVENUE S. BURNSVILLE, MN 55306 719-570-1100 CONTACT: RICHARD L. SCHINDLER P.E.



Know what's **below**. **Call** before you dig. CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

SHEET INDEX					
SHEET NO.	SHEET DESCRIPTION				
CO.1	COVER SHEET				
C0.2	NOTES				
C0.3	TYPICAL SECTIONS				
C4.1 ~ C4.8	DETAILED GRADING PLANS (for information only)				
C4.9 ~ C4.11	EARLY GRADING PLAN AND DETAILS				

DEVELOPER'S STATEMENT

THE UNDERSIGNED OWNER/DEVELOPER HAS READ AND WILL COMPLY WITH ALL THE REQUIREMENTS SPECIFIED IN THESE CONSTRUCTION PLANS AND THE ACCOMPANYING DRAINAGE REPORT.

BUSINESS NAME <u>LORSON, LLC</u>

BY		JEFF	MARK			
TITLE		MA	NAGEF	2		
ADDRES	S		21:		N.	V
	-					٠

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS TOGETHER WITH THE MAIN SIZES INDICATED ON THIS WATER INSTALLATION PLAN ARE ADEQUATE TO SATISFY THE REQUIREMENTS OF THE SECURITY FIRE PROTECTION DISTRICT'S FIRE AND RESCUE DEPARTMENT. THIS APPROVAL IS BASED ON THE INFORMATION IN THESE PLANS, SPECIFICATIONS AND SUPPLEMENTAL INFORMATION PROVIDED BY THE DESIGN ENGINEER WHOSE SIGNATURE APPEARS IN THESE PLANS, AND THE WIDEFIELD WATER AND SANITATION DISTRICT.

SIGNED _____

CONSTRUCTION APPROVAL

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUALS VOLUME 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 TWO YEARS THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION

CONDITIONS:

ENGINEER'S APPROVAL

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

PUDSP-19-005

SHEET INDEX

DATE

WAHSATCH AVE. SUITE 301 DO SPRINGS, CO 80903

FIRE DISTRICT APPROVAL

BY FIRE PROTECTION CHIEF OR COORDINATOR

date _____

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

JENNIFER IRVINE, COUNTY ENGINEER/ECM ADMINISTRATOR

DATE

RICHARD L. SCHINDLER, P.E. # 33997 FOR AND ON BEHALF OF CORE ENGINEERING GROUP

CORE	ENGINEERING GROUP	15004 1ST AVENUE S. BURNSVILLE, MN 55306	PH: 719-659-7800 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com
DATE		(LLC ve, suite 301 dorado 80903 3200
DESCRIPTION		PROJECT: CARRIAGE MEADOWS PREPARED FOR:	SOUTH AT LORSON LUKSUN, LLC RANCH FILING NO. 2 FONTAINE BLVD-CARRIAGE MEADOWS DR COLORADO SPRINGS, COLORADO 8090 COLORADO SPRINGS, COLORADO 8090
Ö DRAWN: DESIGNI CHECKE	ED: R	10 10 PROJECT: CARE	FONTAINE B
COVER SHEET			AND EROSION CONTROL PLANS

TOTAL SHEETS: 14

CONSTRUCTION NOTES

- 1. ALL WORK SHALL COMPLY WITH THE CODES AND POLICIES FOR EL PASO COUNTY.
- 2. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THIS GRADING PLAN WAS OBTAINED FROM AERIAL CONTOURS AND PREVIOUS CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE SITE AND BE FAMILIAR WITH THE EXISTING CONDITIONS.
- 3. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS: BASE OF ALL CUTS AND FILLS - 12 INCHES. FULL DEPTH OF ALL EMBANKMENTS
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED WITHIN THE PROJECT LIMITS.
- 5. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED.
- 6. PRIOR TO PAVING OPERATIONS, THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED WITH A LOADED 988 FRONT-END LOADER OR SIMILAR HEAVY RUBBER TIRED VEHICLE (GVW OF 50,000 POUNDS WITH 18 KIP PER AXLE AT TIRE PRESSURES OF 90 PSI) TO DETECT ANY SOFT OR LOOSE AREAS. IN AREAS WHERE SOFT OR LOOSE SOILS, PUMPING OR EXCESSIVE MOVEMENT IS OBSERVED, THE EXPOSED MATERIALS SHALL BE OVER-EXCAVATED TO A MINIMUM DEPTH OF TWO FEET BELOW PROPOSED FINAL GRADE OR TO A DEPTH AT WHICH SOILS ARE STABLE. AFTER THIS HAS BEEN COMPLETED, THE EXPOSED MATERIALS SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND MOISTURE CONDITIONED. THE SUBGRADE SHALL THEN BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTMM D-698) AT 0 TO +4.0% OF OPTIMUM MOISTURE CONTENT FOR A-6 AND A-7-6 SOILS ENCOUNTERED. OTHER SUBGRADE TYPES SHALL BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557) AT PLUS OR MINUS 2.0% OF OPTIMUM MOISTURE CONTENT. AREAS WHERE STABLE NATURAL SOILS ARE ENCOUNTERED AT PROPOSED SUBGRADE ELEVATION SHALL ALSO BE SCARIFIED (18 INCHES FOR A-7-6 SOILS BELOW FULL-DEPTH ASPHALT CONCRETE) AND COMPACTED AS OUTLINED ABOVE PRIOR TO PAVING OPERATIONS. SUBGRADE FILL SHALL BE PLACED IN SIX-INCH LIFTS AND UNIFORMLY COMPACTED, MEETING THE REQUIREMENTS AS PREVIOUSLY DESCRIBED.
- 7. SUBGRADE MATERIALS DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED, DISPOSED OF AND REPLACED WITH APPROVED MATERIALS.
- 8. FILL SHALL BE PLACED IN 8-INCH MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED PRIOR TO SUCCESSIVE LIFTS.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DURING CONSTRUCTION ACTIVITIES AT ALL TIMES DURING GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES:
 - HAY BALE BARRIERS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
 - SILT FENCE WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
 - TEMPORARY SEDIMENTATION BASINS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER.
 - MULCHING AND SEEDING OF EXCESSIVE SLOPED AREAS AS NEEDED OR AS DIRECTED BY THE ENGINEER.
 - TEMPORARY VEHICLE TRACKING CONTROL AS NEEDED AND/OR DIRECTED BY THE ENGINEER.
 - CONCRETE WASH AREAS.

- INLET PROTECTION. THESE AND ALL EROSION CONTROL BEST MANAGEMENT PRACTICES AS SHOWN IN THE GRADING AND EROSION CONTROL PLANS SHALL BE STRICTLY ADHERED TO.

10. FINISHED CONTOURS/SPOT ELEVATIONS SHOWN HEREON REPRESENT FINISHED GRADES. ALL PAVEMENT SUBGRADES ARE BASED ON THE COMPOSITE ASPHALT PAVEMENT RECOMMENDATIONS MADE IN THE "GEOTECHNICAL STUDY" FOR THIS PROJECT.

- TIMES, INCLUDING THE FOLLOWING:
- BRIDGE CONSTRUCTION
- d. CDOT M & S STANDARDS
- RESPONSIBILITY TO RECTIFY.

- AND STATE FUGITIVE DUST PERMITS.
- 8.

- CRITERIA.

EL PASO COUNTY STANDARD CONSTRUCTION NOTES:

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL

a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)

b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND

4. 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. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S

5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS. OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY

CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND DSD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.

10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.

11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.

13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY PUBLIC WORK DEPARTMENT AND MUTCD

14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY PWD, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.

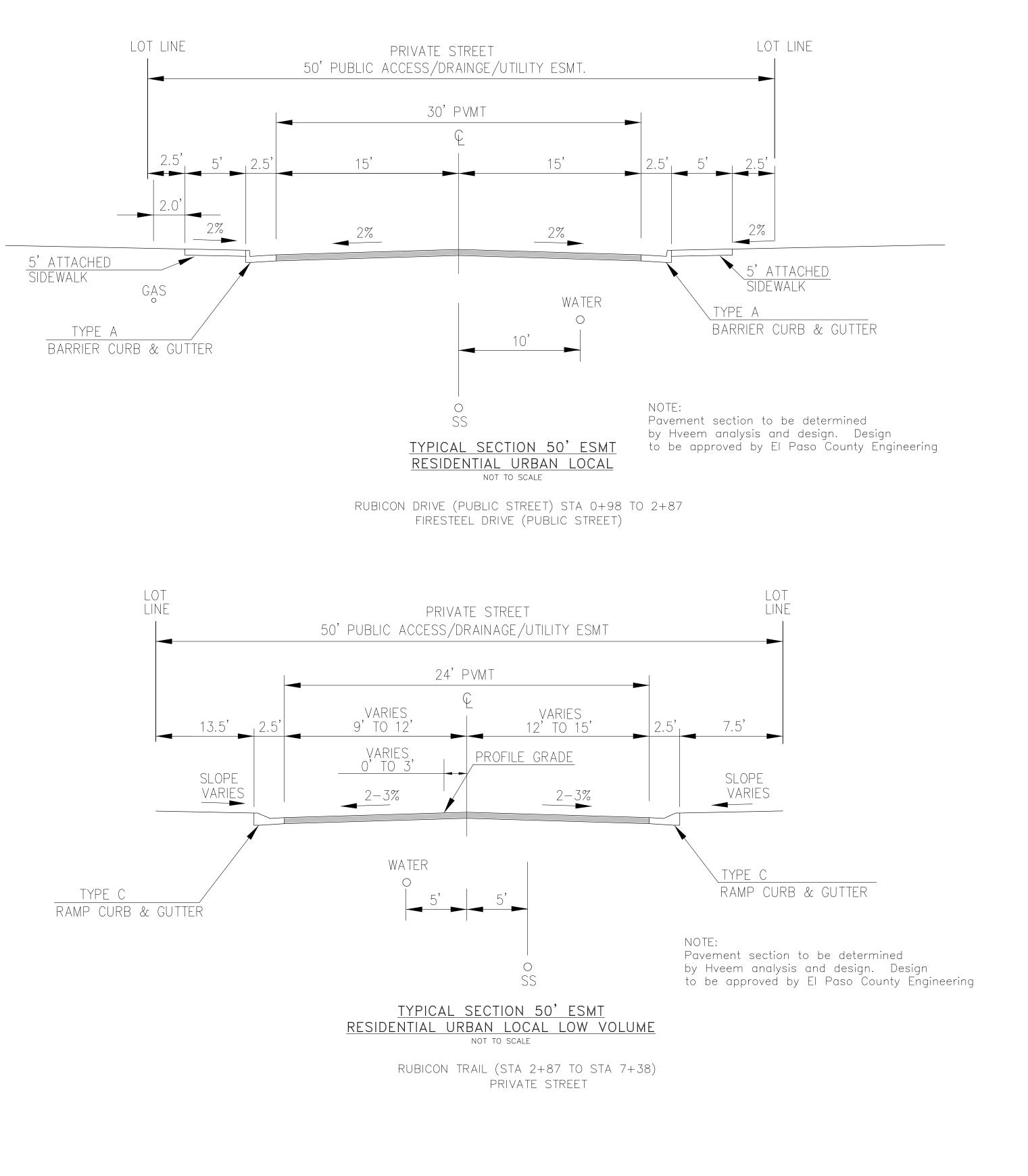
THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

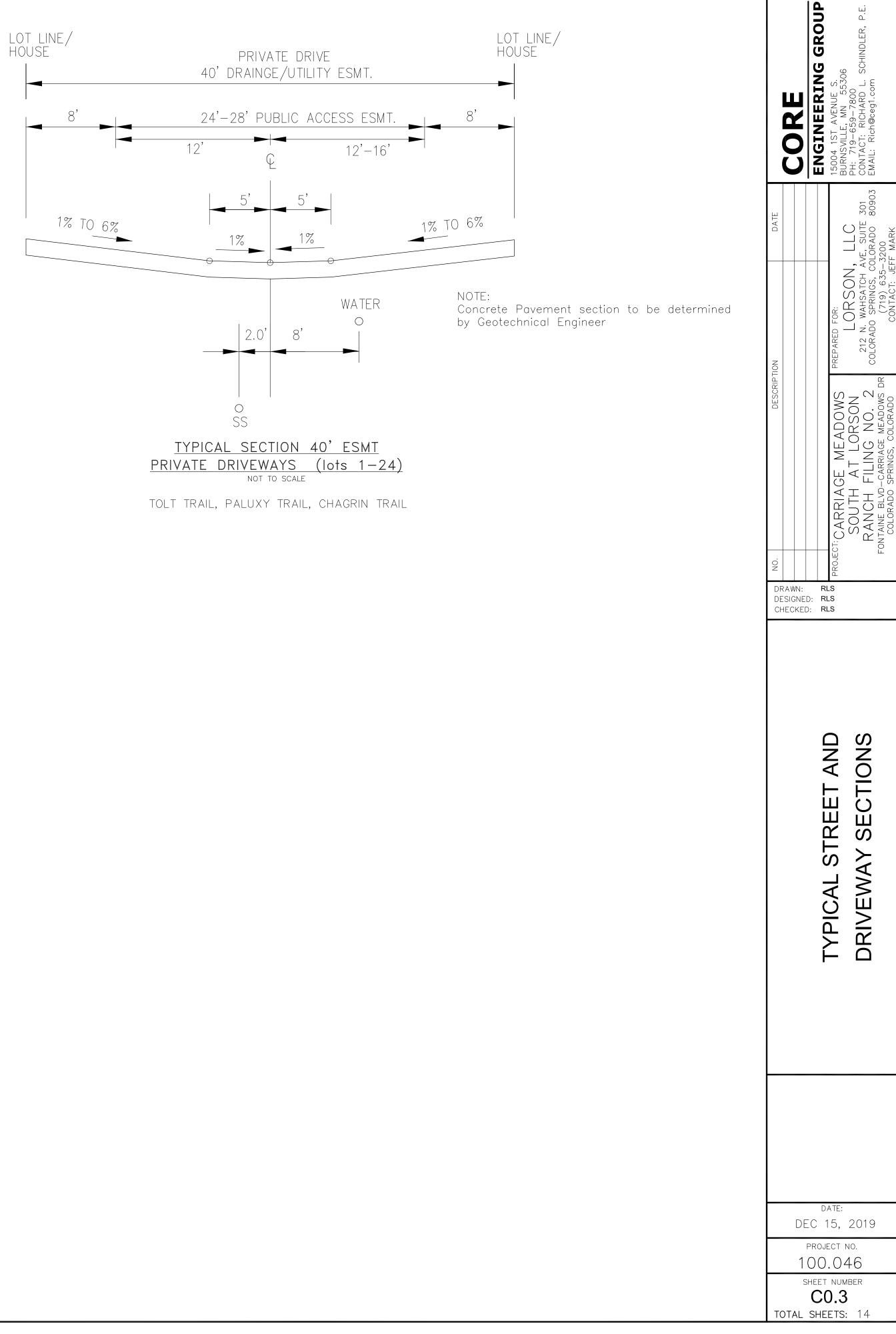
- 1. Stormwater discharges from construction sites shall not cause or Waters. All work and earth disturbance shall be done in a manner wetlands.
- 2. Notwithstanding anything depicted in these plans in words or graph drainage and erosion control shall conform to the standards and Paso County standards, including the Land Development Code, the Drainage Criteria Manual Volume 2. Any deviations from regulations
- 3. A separate Stormwater Management Plan (SMWP) for this project Permit (ESQCP) issued prior to commencing construction. Manager designated Qualified Stormwater Manager or Certified Erosion Contr construction and shall be kept up to date with work progress and
- 4. Once the ESQCP is approved and a "Notice to Proceed" has sediment control measures as indicated on the approved GEC. A County will be held prior to any construction. It is the responsibilit County staff.
- 5. Control measures must be installed prior to commencement of for all slopes, channels, ditches, and disturbed land areas shall be
- 6. All temporary sediment and erosion control measures shall be mo erosion control measures are implemented and final stabilization is assess the adequacy of control measures at the site and identify continued effective performance of the control measures. All chance incorporated into the Stormwater Management Plan.
- 7. Temporary stabilization shall be implemented on disturbed areas permanently ceased or temporarily ceased for longer than 14 days
- 8. Final stabilization must be implemented at all applicable construct activities are complete and all disturbed areas either have a unifo pre-disturbance levels established or equivalent permanent alternat erosion control measures shall be removed upon final stabilization
- 9. All permanent stormwater management facilities shall be installed the design or function of permanent stormwater management struc implementation.
- 10. Earth disturbances shall be conducted in such a manner so as sedimentation. All disturbances shall be designed, constructed, and limited to the shortest practical period of time. Pre-existing veget waters of the state unless shown to be infeasible and specifically
- 11. Compaction of soil must be prevented in areas designated for by vegetative cover. Areas designated for infiltration control measu final stabilization is achieved. If compaction prevention is not feasi vegetation control measures must be loosened prior to installation
- 12. Any temporary or permanent facility designed and constructed disturbance area shall be a stabilized conveyance designed to min.
- 13. Concrete wash water shall be contained and disposed of in acc allowed to enter State Waters, including any surface or subsuri be located in an area where shallow groundwater may be present,
- 14. During dewatering operations of uncontaminated ground water m surface runoff unless an approved State dewatering permit is in p
- 15. Erosion control blanketing or other protective covering shall be
- 16. Contractor shall be responsible for the removal of all wastes fro regulatory requirements. No construction debris, tree slash, building or discharged at the site.
- 17. Waste materials shall not be temporarily placed or stored in the approved Traffic Control Plan. Control measures may be required conditions and circumstances.
- 18. Tracking of soils and construction debris off-site shall be minim disposed of immediately.
- 19. The owner/developer shall be responsible for the removal of all accumulate in roads, storm drains and other drainage conveyance
- 20. The quantity of materials stored on the project site shall be lim work in an orderly sequence. All materials stored on-site shall be original manufacturer's labels.
- 21. No chemical(s) having the potential to be released in stormwate such chemical(s) is granted in writing by the ECM Administrator. and monitoring may be required.
- 22. Bulk storage of allowed petroleum products or other allowed liqu containment protection to contain all spills onsite and to prevent subsurface storm drainage system or other facilities.
- 23. No person shall cause the impediment of stormwater flow in the measures.
- 24. Owner/developer and their agents shall comply with the "Colorac Water Act" (33 USC 1344), in addition to the requirements of the appropriate permits must be obtained by the contractor prior to event of conflicts between these requirements and other laws, rule most restrictive laws, rules, or regulations shall apply.
- 25. All construction traffic must enter/exit the site only at approved
- 26. Prior to construction the permittee shall verify the location of
- 27. A water source shall be available on site during earthwork operation equipment and wind.
- 28. The soils report for this site has been prepared by RMG, "GEOLO RANCH FIL NO. 2", DATED OCTOBER 7, 2019 and shall be consider

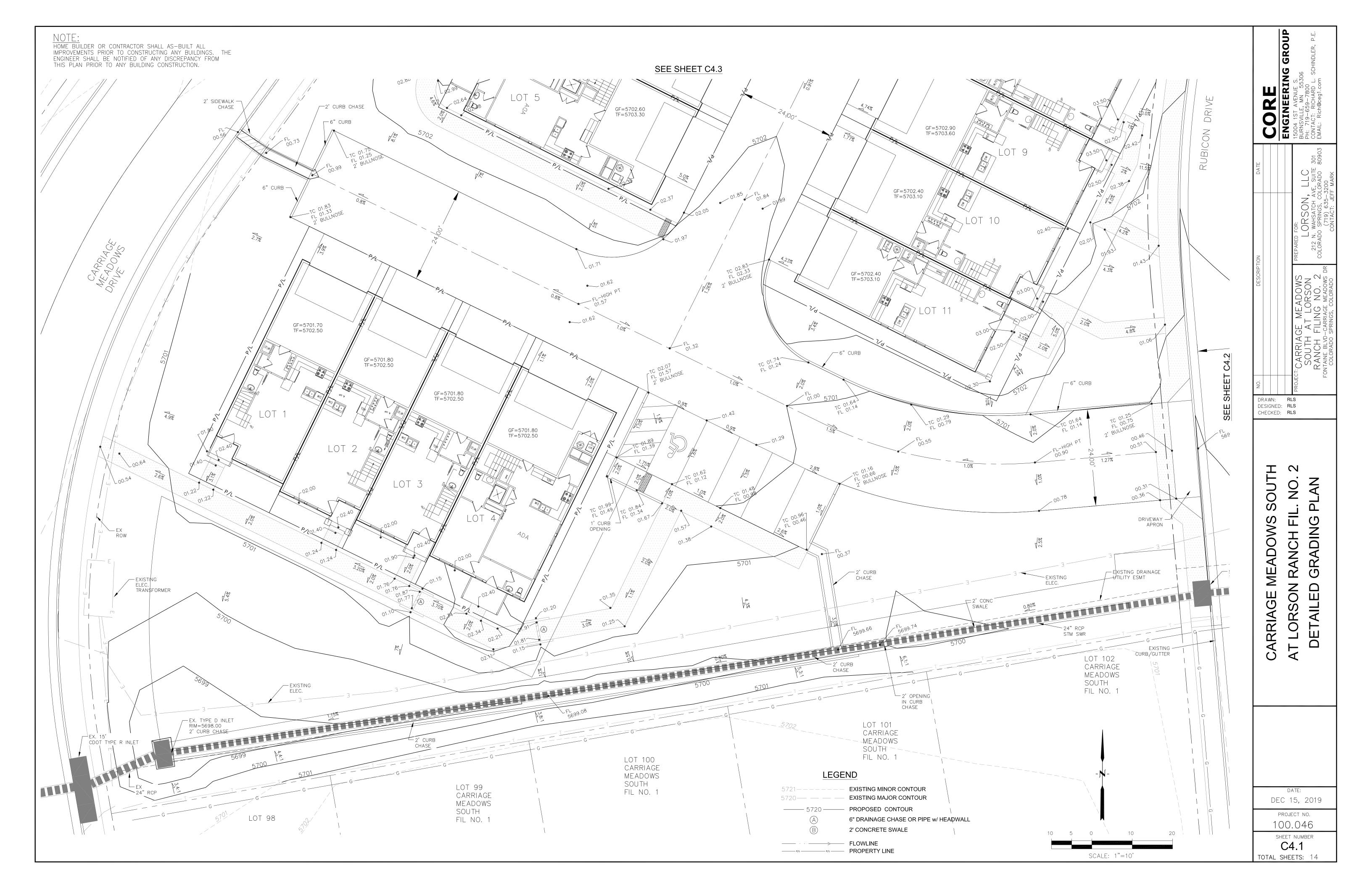
29. At least ten (10) days prior to the anticipated start of construc operator of construction activity shall submit a permit application and Environment, Water Quality Division. The application contains co which this Grading and Erosion Control Plan may be a part. For

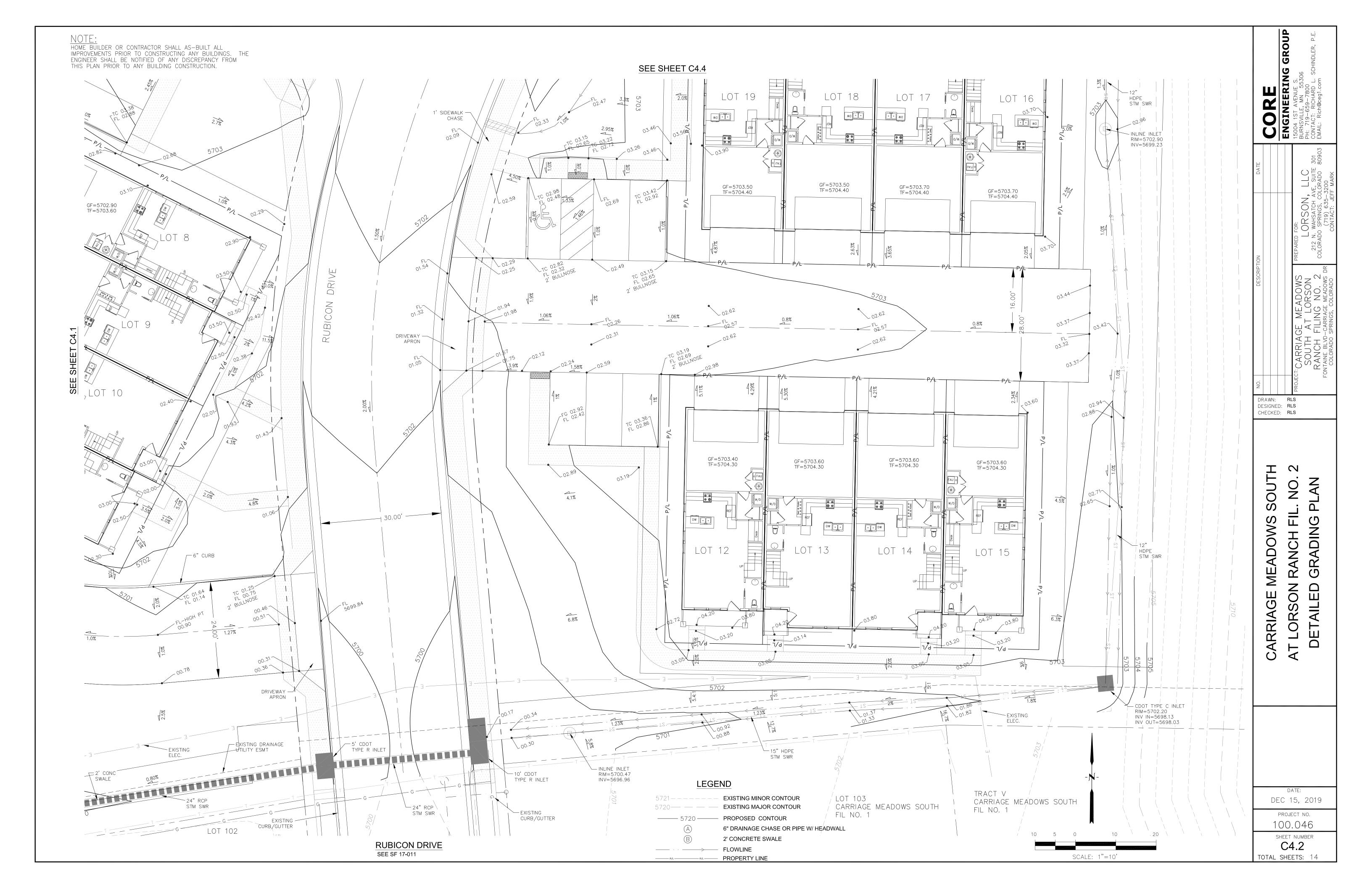
Colorado Department of Public Health and Environment Water Quality Control Division WQCD - Permits 4300 Cherry Creek Drive South Denver, CO 80246-1530 Attn: Permits Unit

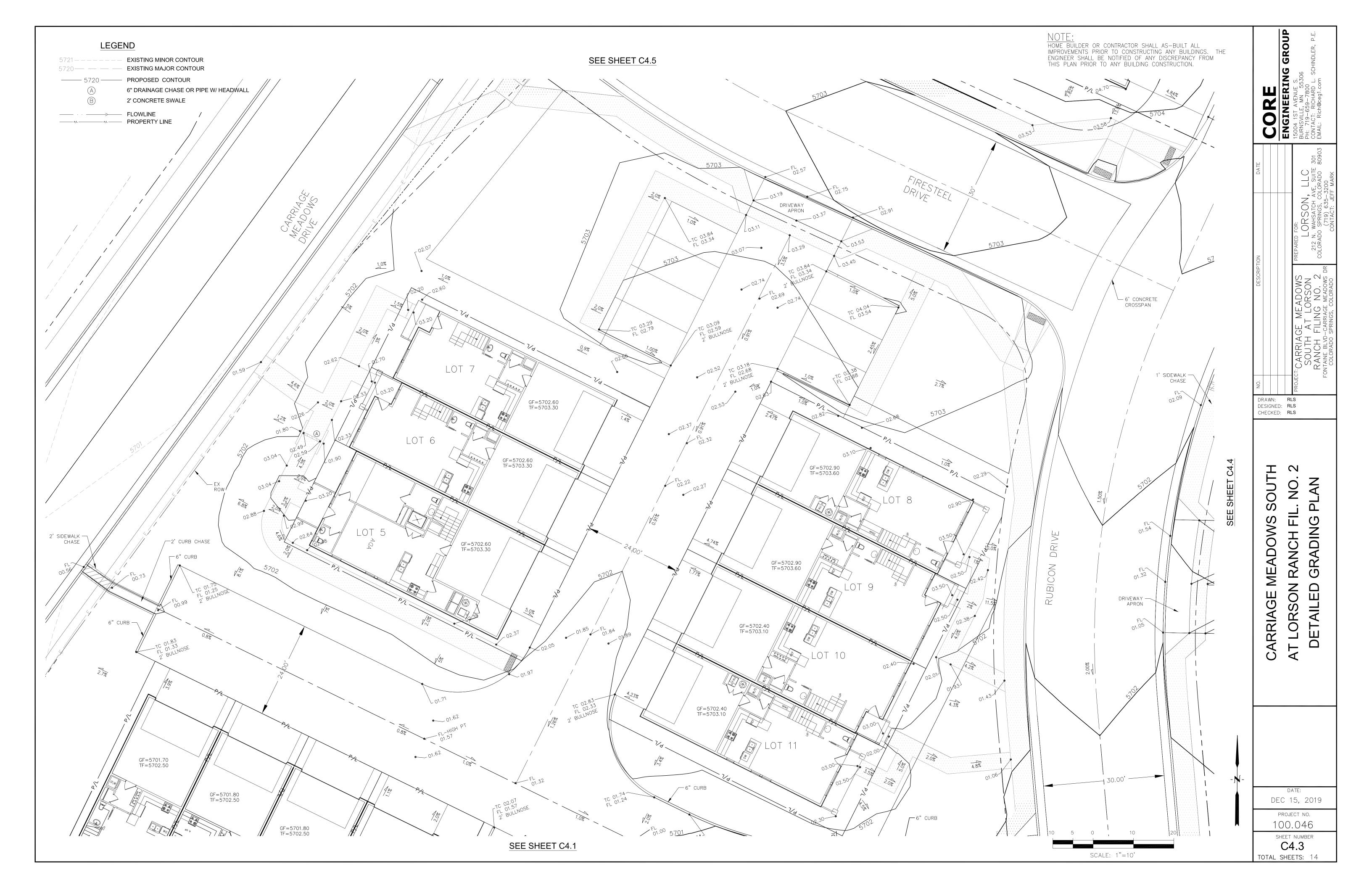
AND EROSION CONTROL PLANS (rev. 7/02/2019) threaten to cause pollution, contamination, or degradation of State that minimizes pollution of any on-site or off-site waters, including		G GROUP 6 Schindler, P.E.
phic representation, all design and construction related to roads, storm requirements of the most recent version of the relevant adopted El Engineering Criteria Manual, the Drainage Criteria Manual, and the s and standards must be requested, and approved, in writing.	RE	GINEERING 4 1ST AVENUE S. ISVILLE, MN 55306 719-659-7800 ACT: RICHARD L. SCI .: Rich@ceg1.com
t shall be completed and an Erosion and Stormwater Quality Control ment of the SWMP during construction is the responsibility of the rol Inspector. The SWMP shall be located on site at all times during I changes in the field.	CO	ENGIN 15004 1ST BURNSVILLE PH: 719-65 CONTACT: 1 CONTACT: 1 EMAIL: Rich
been issued, the contractor may install the initial stage erosion and Preconstruction Meeting between the contractor, engineer, and El Paso ity of the applicant to coordinate the meeting time and place with	DATE	C 80903
activities that could contribute pollutants to stormwater. Control measures e installed immediately upon completion of the disturbance.		, LLC ave, suite olorado -3200 ff mark
naintained and remain in effective operating condition until permanent soil s established. All persons engaged in land disturbance activities shall if changes to those control measures are needed to ensure the ges to temporary sediment and erosion control measures must be		FOR: ORSON WAHSATCH O SPRINGS, C (719) 635- CONTACT: JE
and stockpiles where ground disturbing construction activity has 's.		PREPARED F 212 N. COLORADC
ction sites. Final stabilization is achieved when all ground disturbing orm vegetative cover with individual plant density of 70 percent of tive stabilization method is implemented. All temporary sediment and and before permit closure.	DESCRIP TION	ADOWS RSON NO. 2 Meadows dr
d as designed in the approved plans. Any proposed changes that affect actures must be approved by the ECM Administrator prior to		
to effectively minimize accelerated soil erosion and resulting I completed so that the exposed area of any disturbed land shall be tation shall be protected and maintained within 50 horizontal feet of a requested and approved.		RIAGE M UTH AT I CH FILIN BLVD-CARRIA RADO SPRINGS
infiltration control measures or where final stabilization will be achieved ures shall also be protected from sedimentation during construction until sible due to site constraints, all areas designated for infiltration and of the control measure(s).	ÖN	PROJECT:CAR SOL RAN(FONTAINE COLOF
for the conveyance of stormwater around, through, or from the earth nimize erosion and the discharge of sediment off site.	DRAWN: DESIGNE	RLS
cordance with the SWMP. No wash water shall be discharged to or face storm drainage system or facilities. Concrete washouts shall not , or within 50 feet of a surface water body, creek or stream.	CHECKED	
nay be discharged on site, but shall not leave the site in the form of place. used on slopes steeper than 3:1.		S
or the construction site for disposal in accordance with local and State g material wastes or unused building materials shall be buried, dumped,)TE
e street, alley, or other public way, unless in accordance with an	G AND	AN NOTE
by El Paso County Engineering if deemed necessary, based on specific	U Z	AN
mized. Materials tracked off—site shall be cleaned up and properly		
construction debris, dirt, trash, rock, sediment, soil, and sand that may systems and stormwater appurtenances as a result of site development.	GRAD	SOL
nited, as much as practical, to that quantity required to perform the stored in a neat, orderly manner, in their original containers, with		CONTRO
er are to be stored or used onsite unless permission for the use of In granting approval for the use of such chemical(s), special conditions	Y SITE	
uid chemicals in excess of 55 gallons shall require adequate secondary any spilled materials from entering State Waters, any surface or	EARLY	EROSION
ne curb and gutter or ditch except with approved sediment control	ш	ROS
do Water Quality Control Act" (Title 25, Article 8, CRS), and the "Clean Land Development Code, DCM Volume II and the ECM Appendix I. All construction (1041, NPDES, Floodplain, 404, fugitive dust, etc.). In the es, or regulations of other Federal, State, local, or County agencies, the		Ш
d construction access points.		
existing utilities. rations and shall be utilized as required to minimize dust from earthwork		
OGY AND SOILS STUDY FOR CARRIAGE MEADOWS SOUTH AT LORSON		
red a part of these plans. ction, for projects that will disturb one (1) acre or more, the owner or for stormwater discharge to the Colorado Department of Public Health		DATE:
pertification of completion of a stormwater management plan (SWMP), of information or application materials contact:		C 15, 2019 PROJECT NO.
	1	00.046
		HEET NUMBER
	TOTAL	SHEETS: 14

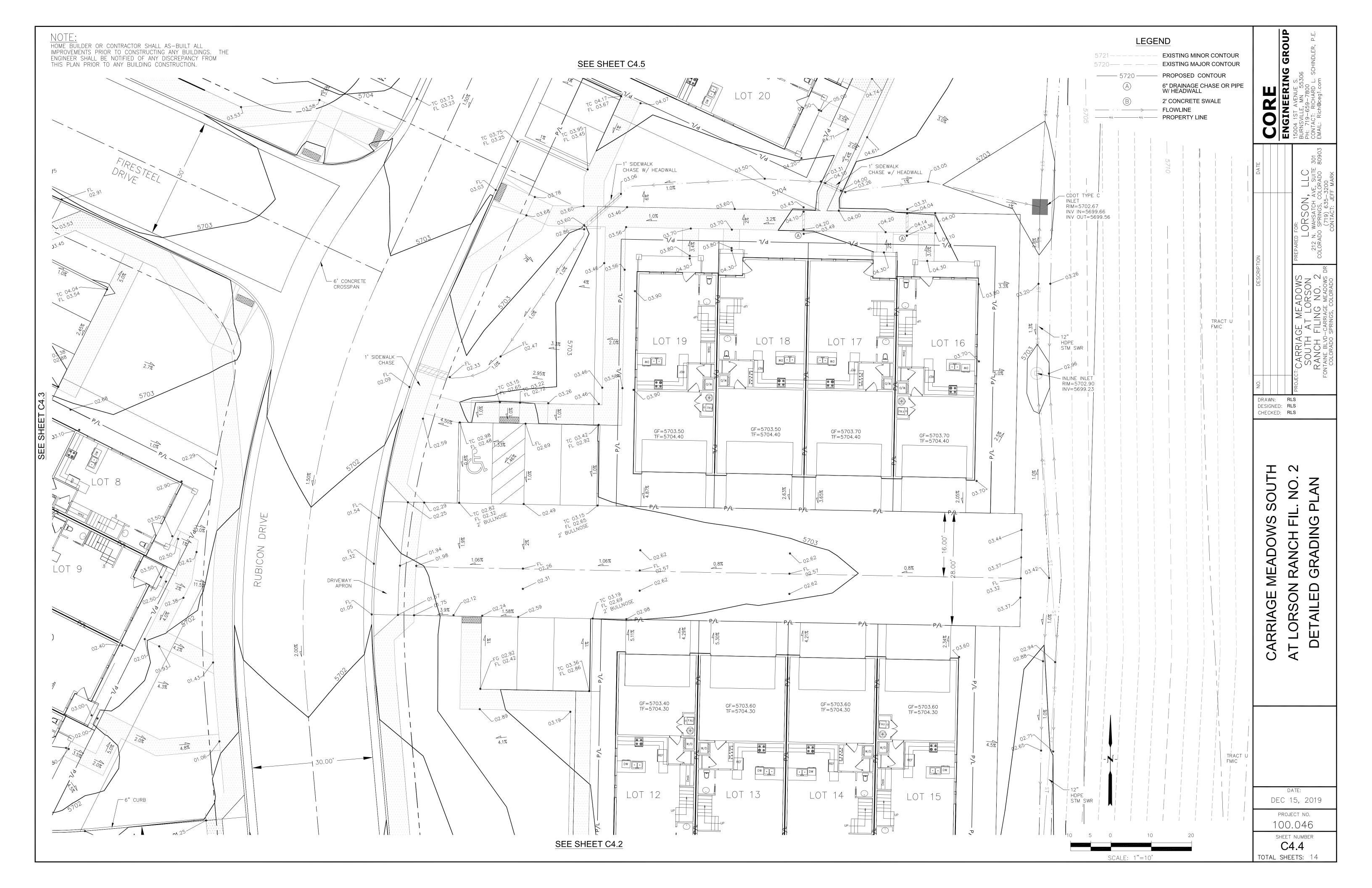


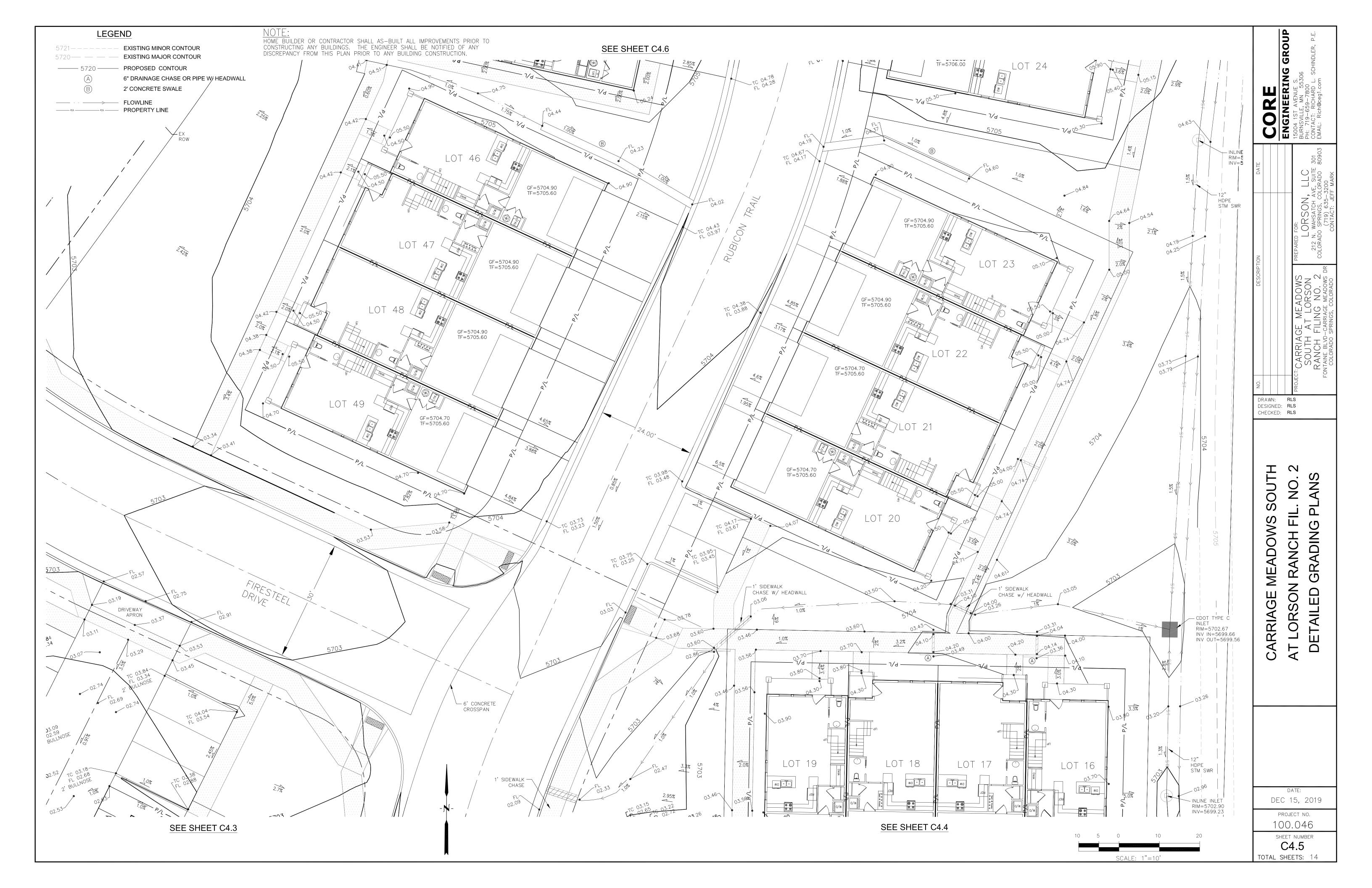




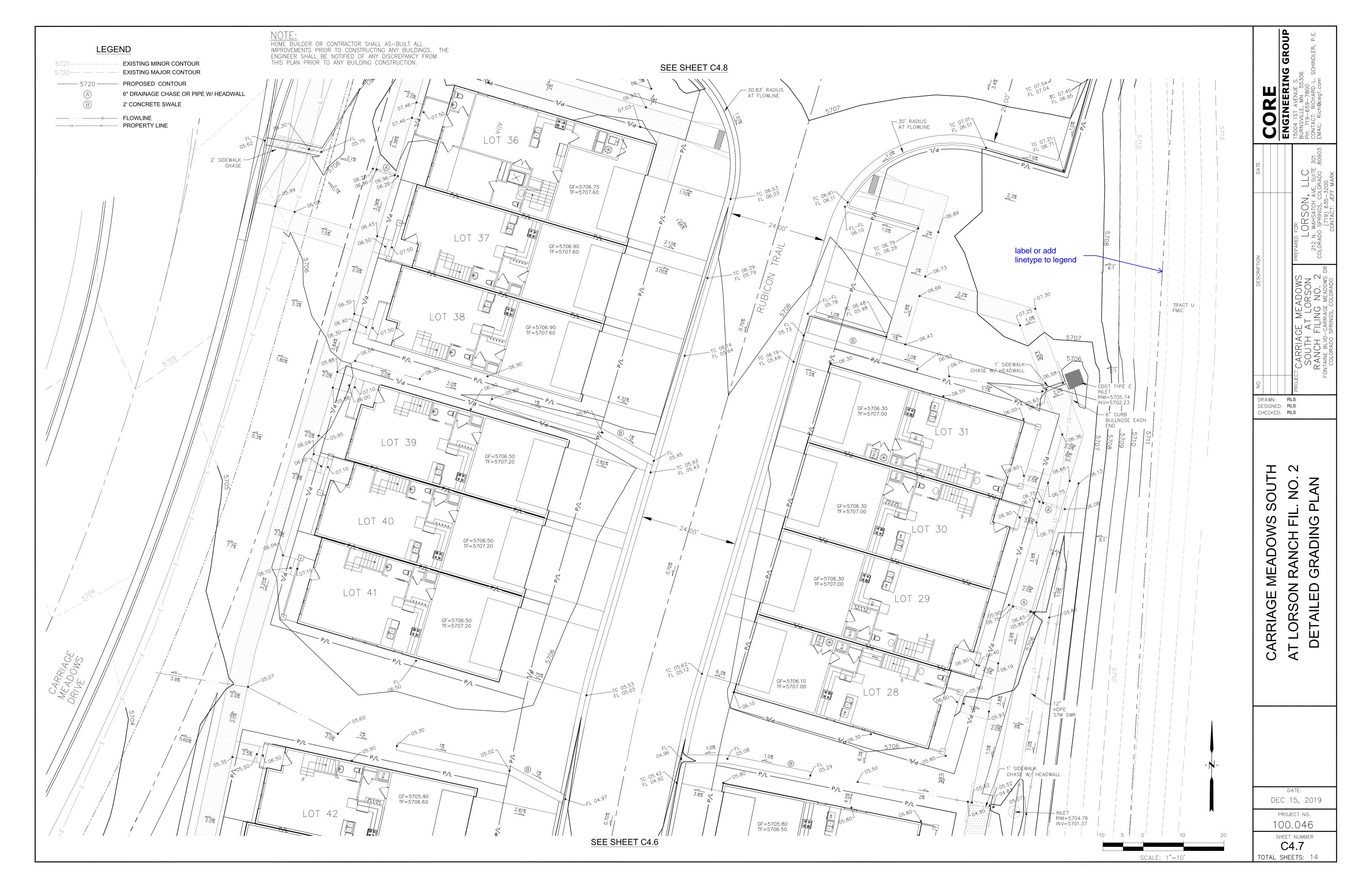


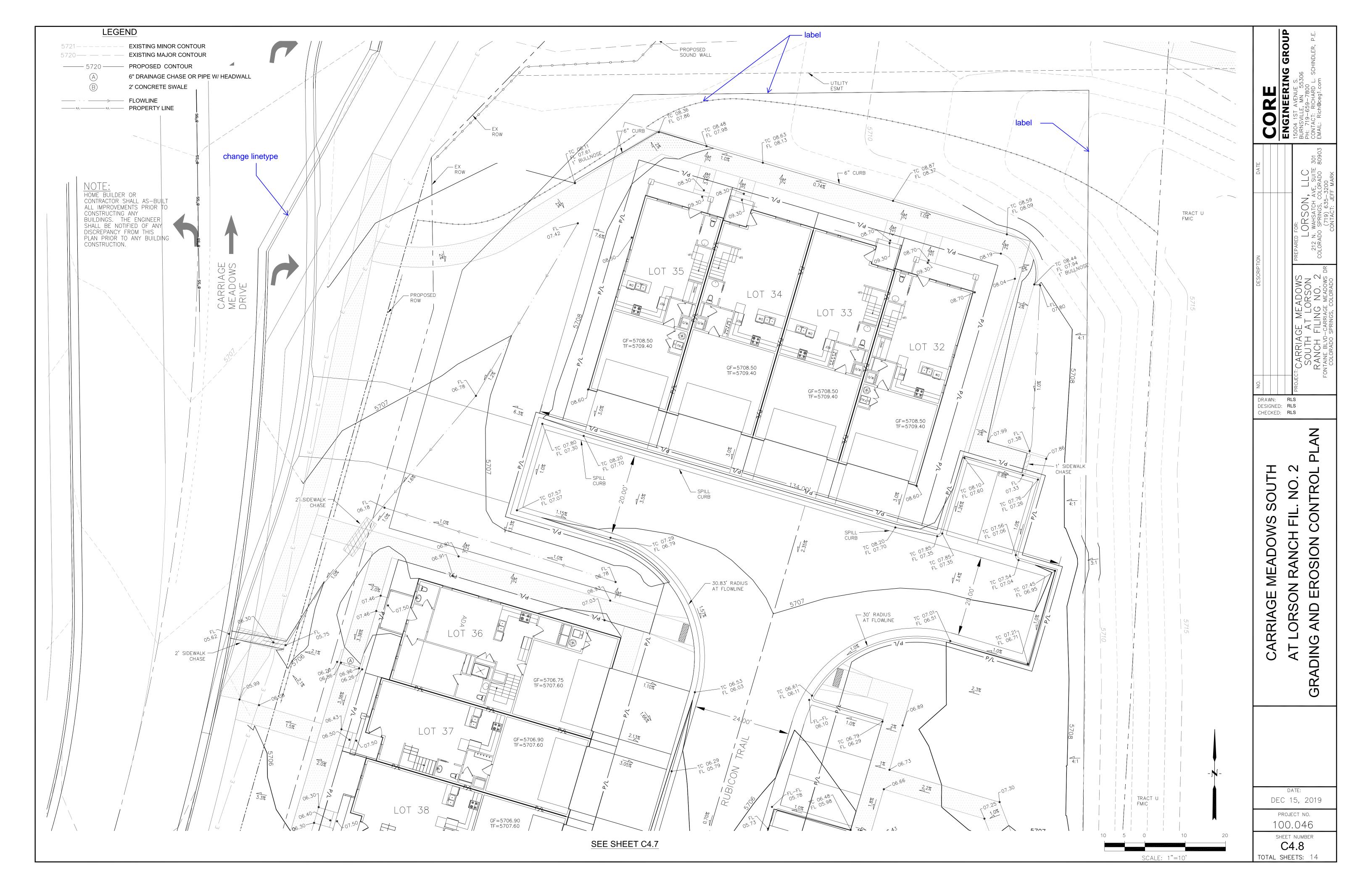


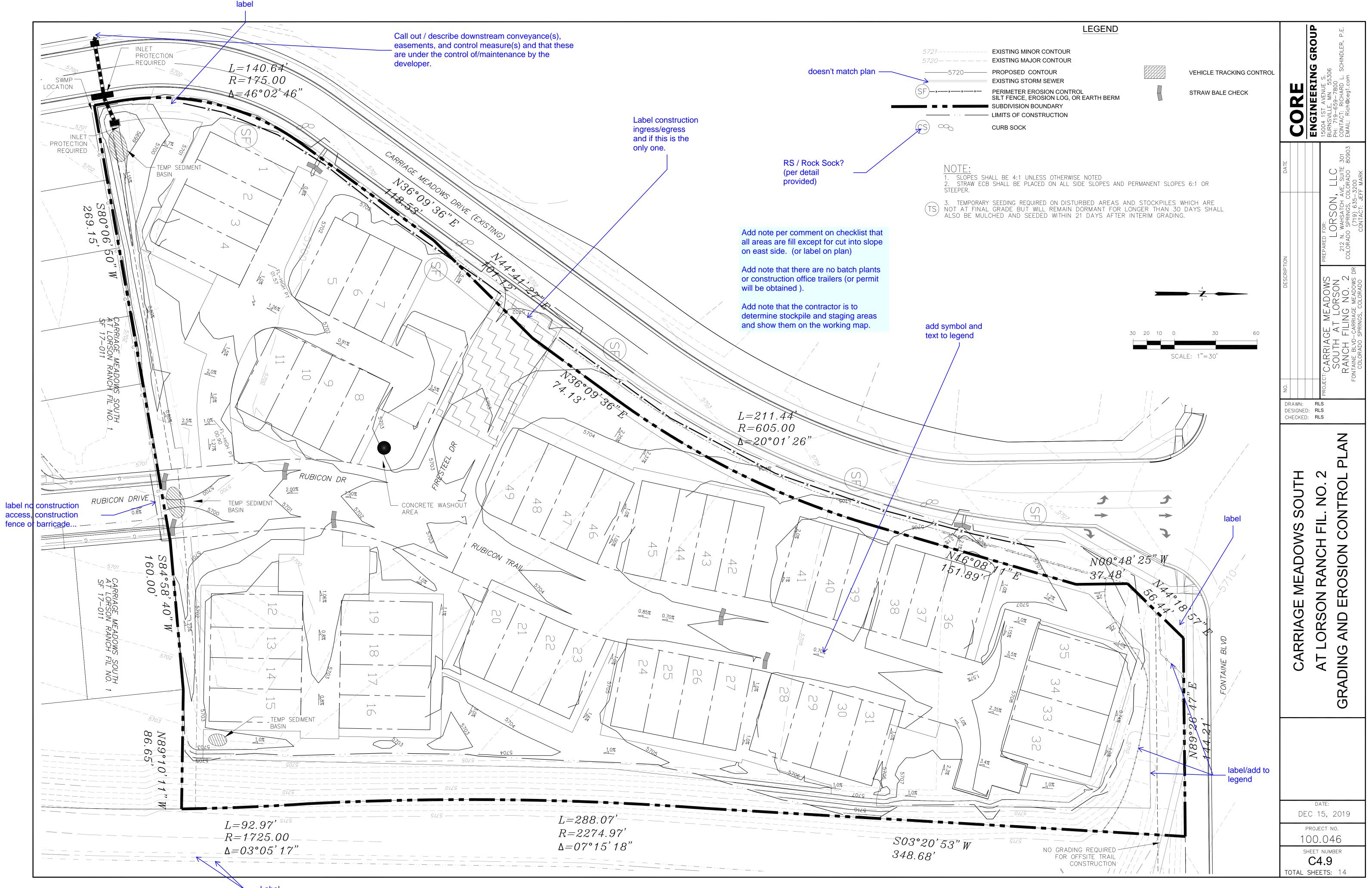




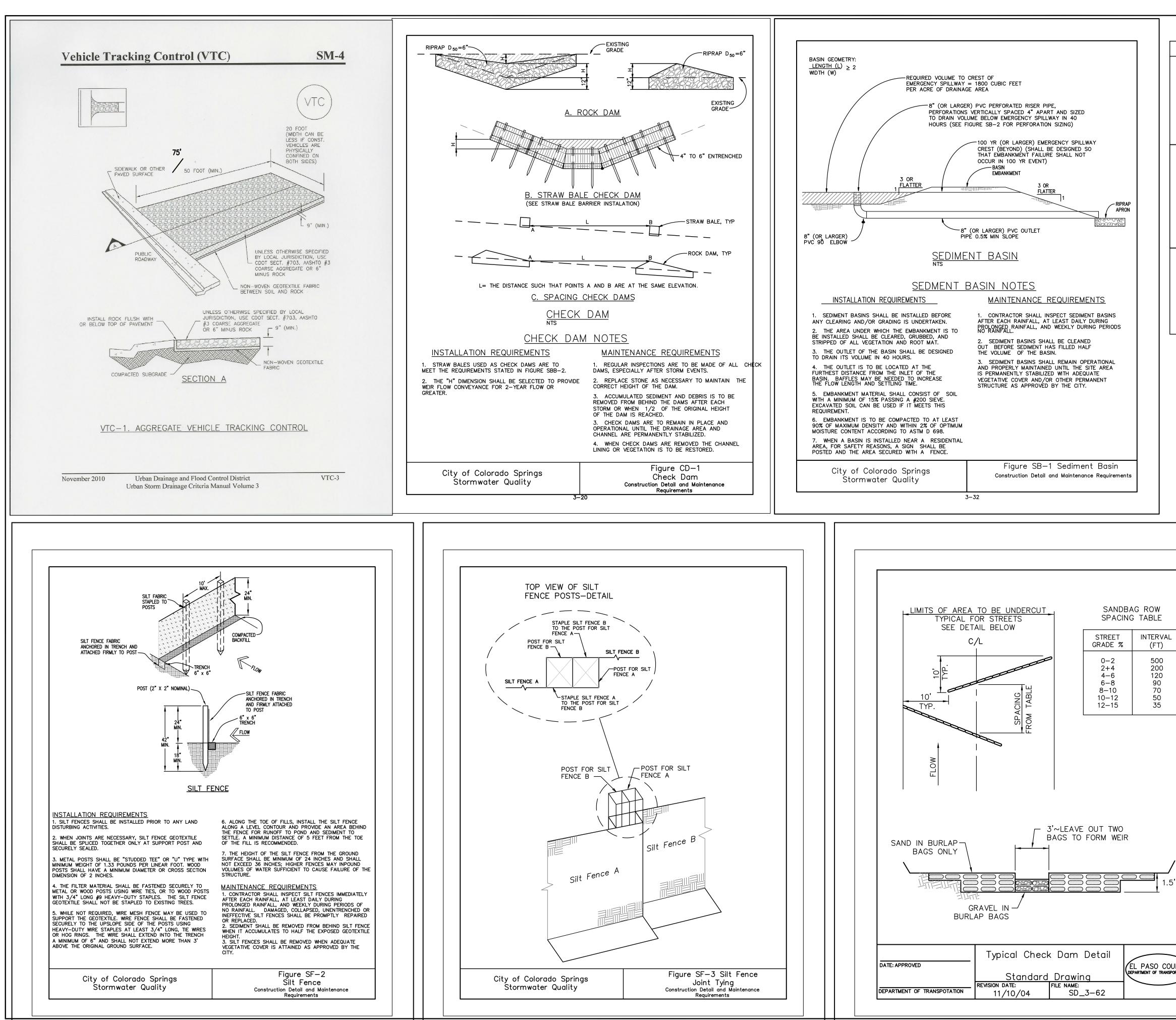








Label



GRASS MIX FOR QUICK REVE GRASS CRESTED WHEAT GRASS PERENNIAL RYE WESTERN WHEAT GRASS SMOOTH BROME GRASS SIDEOATS GRAMA GRASS MIX FOR SANDY SOIL	VARIETYAMOUNT IN PLS LBS PER ACREEPHRAIM OR HYCREST4.0LINN2.0BARTON3.0LINCOLN OR MANCHAR5.0EL RENO2.5TOTAL16.5 LBS	CORE	ENGINEERING GROUP 15004 1ST AVENUE S. BURNSVILLE, MN 55306 PH: 719-659-7800 CONTACT: RICHARD L. SCHINDLER, P.E. EMAIL: Rich@ceg1.com
<u>GRASS</u> SIDEOATS GRAMA WESTERN WHEAT GRASS SLENDER WHEAT GRASS LITTLE BLUESTEM SAND DROPSEED SWITCH GRASS WEEPING LOVE GRASS	VARIETYAMOUNT IN PLS LBS PER ACREEL RENO3.0BARTON2.5NATIVE2.0PASTURA2.0NATIVE0.5NEBRASKA 283.0MORPHA1.0TOTAL14.0 LBS	DATE	SON, LLC atch ave, suite 301 des, colorado 80903) 635-3200 ct: Jeff Mark
GRASS MIX FOR HEAVIER SO GRASS WESTERN WHEAT GRASS SIDEOATS GRAMA SLENDER WHEAT GRASS SMOOTH BROME CRESTEDWHEAT GRASS		DESCRIPTION DESIGNE CHECKET	
			GRADING AND EROSION CONTROL DETAILS
		1 s	DATE: EC 15, 2019 PROJECT NO. 00.046 SHEET NUMBER C4.10 SHEETS: 14

