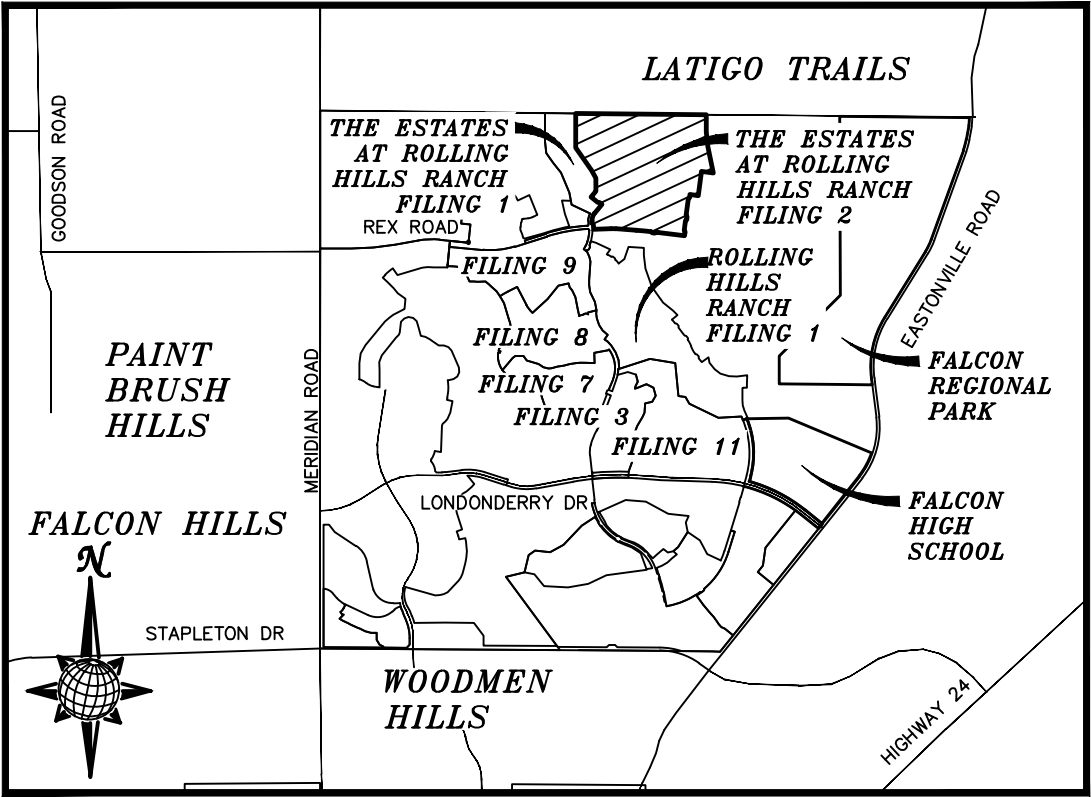


CONSTRUCTION DRAWINGS  
FOR  
THE ESTATES AT  
ROLLING HILLS RANCH FILING 2  
IMPROVEMENT PLANS  
PREPARED FOR GTL, INC. DBA GTL DEVELOPMENT, INC.

A PARCEL OF LAND LOCATED IN A PORTION OF SECTION 20 AND 29  
IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN,  
EL PASO COUNTY, STATE OF COLORADO.



VICINITY MAP  
N.T.S.

UTILITY CONTACTS:

WATER – MERIDIAN SERVICE METROPOLITAN DISTRICT  
POC: KEVIN FACKERELL  
(719)–495–6567

GAS – BLACK HILLS ENERGY  
(719)–393–6625

SANITARY SEWER – MERIDIAN SERVICE METROPOLITAN DISTRICT  
POC: BRADEN McCORRY  
(719)–495–6567

ELECTRIC – MOUNTAIN VIEW ELECTRIC ASSOC.  
(719)–495–2283

DRAINAGE – EL PASO COUNTY PCD/INSPECTIONS  
(719)–520–6300

GEOTECHNICAL ENGINEER – ENTECH ENGINEERING, INC.  
(719)–531–5599

DRAINAGE – MERIDIAN SERVICE METROPOLITAN DISTRICT  
POC: TOM KERBY  
(719)–495–7444

FALCON FIRE PROTECTION DISTRICT  
(719) 495–4050

CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOW ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

LEGAL DESCRIPTION:

KNOW ALL MEN BY THESE PRESENTS:  
THAT GTL, INC. DBA GTL DEVELOPMENT, INC., THEODORE TCHANG, PRESIDENT AND MERIDIAN SERVICE METROPOLITAN DISTRICT BEING THE OWNERS OF THE FOLLOWING DESCRIBED TRACTS OF LAND:

A PARCEL OF LAND LOCATED IN A PORTIONS OF SECTION 19 AND 20,  
IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEASTERN MOST CORNER OF TRACT B OF THE ESTATES AT ROLLING HILLS RANCH FILING NO. 1, RECORDED WITH RECEPTION NO. \_\_\_\_\_ IN THE RECORDS OF EL PASO COUNTY, POINT BEING ON THE NORTHEAST 1/4 OF SAID SECTION 19;

1. THENCE S89°18'07"E ALONG SAID SECTION 19 A DISTANCE OF 40.70 FEET TO THE NORTHWEST CORNER OF SAID SECTION 20;
2. THENCE S89°25'43"E, ALONG THE NORTHERN LINE OF SAID SECTION 20 A DISTANCE OF 2532.88 FEET;
3. THENCE S00°34'17"W A DISTANCE OF 340.00 FEET;
4. THENCE S06°47'53"E A DISTANCE OF 290.00 FEET;
5. THENCE S11°14'55"E A DISTANCE OF 525.00 FEET;
6. THENCE N82°33'58"W A DISTANCE OF 235.05 FEET;
7. THENCE S07°26'02"W A DISTANCE OF 480.00 FEET;
8. THENCE N82°33'58"W A DISTANCE OF 168.00 FEET;
9. THENCE S07°26'02"W A DISTANCE OF 60.00 FEET;
10. THENCE S52°26'02"W A DISTANCE OF 31.11 FEET;
11. THENCE S07°26'02"W A DISTANCE OF 336.00 FEET;
12. THENCE S37°33'58"E A DISTANCE OF 31.11 FEET;
13. THENCE S07°26'02"W A DISTANCE OF 60.00 FEET;
14. THENCE S52°26'02"W A DISTANCE OF 31.11 FEET;
15. THENCE S07°26'02"W A DISTANCE OF 196.00 FEET;
16. THENCE S37°33'58"E A DISTANCE OF 31.11 FEET;
17. THENCE S07°26'02"W A DISTANCE OF 80.00 FEET;
18. THENCE N82°33'58"W A DISTANCE OF 518.76 FEET TO A CURVE TO THE LEFT;
19. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 7440.00 FEET, A DELTA ANGLE OF 00°18'41", AN ARC LENGTH OF 40.44 FEET, WHOSE LONG CHORD BEARS N82°43'19"W A DISTANCE OF 40.44 FEET;
20. THENCE S51°52'47"W A DISTANCE OF 31.03 FEET;
21. THENCE N83°16'41"W A DISTANCE OF 60.00 FEET;
22. THENCE N38°26'09"W A DISTANCE OF 31.03 FEET TO A NON-TANGENT CURVE TO THE LEFT;
23. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 7440.00 FEET, A DELTA ANGLE OF 02°14'02", AN ARC LENGTH OF 290.08 FEET, WHOSE LONG CHORD BEARS N84°47'44"W A DISTANCE OF 290.06 FEET;
24. THENCE N85°54'45"W A DISTANCE OF 400.64 FEET TO A CURVE TO THE LEFT;
25. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 900.00 FEET, A DELTA ANGLE OF 06°09'39", AN ARC LENGTH OF 96.77 FEET, WHOSE LONG CHORD BEARS N88°59'34"W A DISTANCE OF 96.73 FEET;
26. THENCE S87°55'36"E A DISTANCE OF 348.00 FEET TO A POINT ON THE EASTERLY BOUNDARY OF SAID THE ESTATES AT ROLLING HILLS RANCH FILING NO. 1;

THE FOLLOWING FOURTEEN (14) COURSES ARE ON SAID BOUNDARY LINE:

27. THENCE N02°04'24"W A DISTANCE OF 100.00 FEET;
28. THENCE N47°04'24"W A DISTANCE OF 31.11 FEET;
29. THENCE N02°04'24"W A DISTANCE OF 45.00 FEET TO A CURVE TO THE RIGHT;
30. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 220.00 FEET, A DELTA ANGLE OF 40°46'08", AN ARC LENGTH OF 156.54 FEET, WHOSE LONG CHORD BEARS N18°18'40"E A DISTANCE OF 153.26 FEET;
31. THENCE N38°41'44"E A DISTANCE OF 231.44 FEET;
32. THENCE N51°18'16"W A DISTANCE OF 60.00 FEET;
33. THENCE S83°41'44"W A DISTANCE OF 31.11 FEET;
34. THENCE N51°18'16"W A DISTANCE OF 170.23 FEET;
35. THENCE N38°41'44"E A DISTANCE OF 150.00 FEET;
36. THENCE N00°00'00"E A DISTANCE OF 254.85 FEET;
37. THENCE N30°02'34"W A DISTANCE OF 180.68 FEET;
38. THENCE N35°00'00"W A DISTANCE OF 540.00 FEET;
39. THENCE N00°00'00"E A DISTANCE OF 232.89 FEET;
40. THENCE N00°00'00"E A DISTANCE OF 108.00 FEET;
41. THENCE N00°00'00"E A DISTANCE OF 332.03 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL OF LAND CONTAINS 117.211 ACRES, MORE OR LESS.

PCD Filing No.:  
SF-20-018

SHEET NO	SHEET INDEX	SHEET NO	SHEET INDEX
1	COVER SHEET	18	SS #1 & FUT. MORNING HILLS DR.
2	INDEX SHEET		
3	NOTES SHEET	19	FUT. MORNING HILLS DR. & FUT. FOGGY MEADOWS DR.
4–5	DETAIL SHEET		
6	REX ROAD	20	FUT. OVERLOOK BLUFF DR. & FUT. ROLLING RANCH DR.
7	REX ROAD & STORM #1		
8	ESTATE RIDGE DR.	21	FUT. CROOKED HILL DR. & FUT. CROOKED BLUFF DR.
9	ESTATE RIDGE DR. & STORM #5		
10	CRESCENT CREEK DR.	22	FUT. CROOKED BLUFF DR. & SS #2
11	CRESCENT CREEK DR. & SUNRISE RIDGE DR.	23	SIGNAGE AND STRIPING
		24–25	SIDEWALK PLAN
12	SUNRISE RIDGE DR.	26	OVERALL SANITARY SEWER
13	CYPRESS MEADOW DR.	27	OVERALL SS SERVICES
14	HIGHLAND CREST DR.	28	OVERALL UNDERDRAIN
15	HIGHLAND CREST DR. & SAGE MESA WAY	29	UNDERDRAIN DETAILS
		30	OVERALL WATER
16	STORM #2 & STORM #3 & STORM #4	31	OVERALL WATER SERVICES
		32	OVERALL STORM DRAIN
17	WM #1 & WM #2	33	GRADING INDEX SHEET
		34–41	GRADING LAYOUT
		43–44	GRADING DETAIL SHEET

DESIGN ENGINEER'S STATEMENT:

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 DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE 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.

THOMAS A. KERBY, P.E. #31429

Add lines for signature and date

DEVELOPERS STATEMENT:

DEVELOPERS STATEMENT:

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

RAUL GUZMAN, VICE PRESIDENT  
GTL DEVELOPMENT, INC.

DATE

OWNERS STATEMENT:

OWNERS STATEMENT:

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

RAUL GUZMAN, VICE PRESIDENT  
MERIDIAN RANCH INVESTMENTS, INC.

DATE

EL PASO COUNTY:

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

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

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

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

DATE

DISTRICT ENGINEER:

THOMAS A. KERBY, PE CO 31429  
MERIDIAN SERVICE METROPOLITAN DISTRICT

DATE

WATER AND SANITARY SEWER APPROVALS:

DAVID A. PELSER, GENERAL MANAGER  
MERIDIAN SERVICE METROPOLITAN DISTRICT

DATE

BENCH MARK

1) MRR01 – 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF LONDONDERRY DRIVE AND ANGELES ROAD. LOCATED AT THE SE CORNER OF THE MERIDIAN RANCH RECREATIONAL CENTER SIGN. ELEVATION – 7098.40'

2) MRMS1 – 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED ON THE WEST SIDE OF RAINBOW BRIDGE DRIVE 1,150 FEET NORTH OF LONDONDERRY DRIVE. LOCATED NEAR THE BACK OF SIDE WALK AT THE NW CORNER OF RAINBOW BRIDGE DRIVE AND THE NORTHERLY ENTRANCE TO MERIDIAN RANCH ELEMENTARY SCHOOL (10480 RAINBOW BRIDGE DRIVE). ELEVATION – 7099.73'

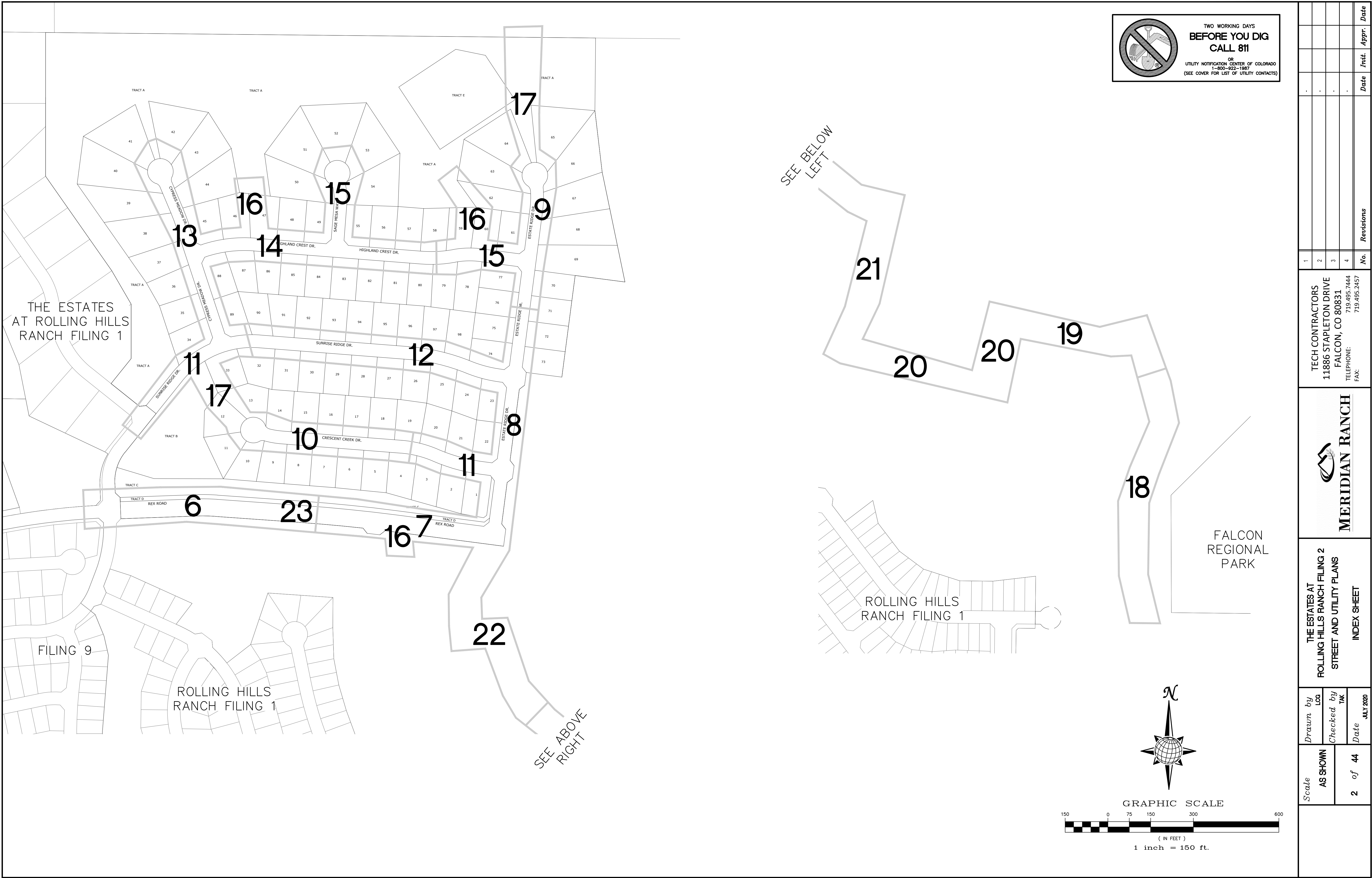


TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811

OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)



S:\architect\cadd\plans\at Rolling Hills Filing 2\DWG\PLAN SHEETS\IMPROVEMENT PLANS\I.L.R.D. 1.dwg, 7/15/2001 3:58:08 PM





METROPOLITAN DISTRICT GENERAL UTILITY NOTES  
FOR MERIDIAN SERVICE METROPOLITAN DISTRICT  
MSMD BOARD APPROVED: JANUARY 8, 2020

GENERAL NOTES

1. MERIDIAN SERVICE METROPOLITAN DISTRICT (MSMD) CONTACT:

11886 STAPLETON DR  
FALCON, CO 80831  
PHONE 719-495-6567

2. ALL SANITARY SEWER, POTABLE WATER, RECLAIMED WATER, RAW WATER AND STORM DRAIN SYSTEMS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CURRENT MERIDIAN SERVICE METROPOLITAN DISTRICT (MSMD) SPECIFICATIONS. MSMD SPECIFICATIONS HEREINAFTER SHALL BE CONSISTENT WITH THE COLORADO SPRINGS UTILITIES SPECIFICATIONS (CSUS) FOR WASTEWATER LINE EXTENSION & SERVICE STANDARDS, 2010 EDITION AND THE WATER LIND EXTENSION & SERVICE STANDARDS, 2014 EDITION, UNLESS OTHERWISE NOTED AND APPROVED.

3. ALL PLANS ON THE JOB SITE SHALL BE SIGNED AND APPROVED BY MSMD AND MSMD'S ENGINEER. ANY REVISION TO THE PLANS SHALL BE APPROVED BY MSMD AND MSMD'S ENGINEER AND SO NOTED ON THE PLANS.

4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY MSMD. MSMD RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO MSMD STANDARDS AND SPECIFICATIONS.

5. ALL PIPE MATERIAL, BACKFILL, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT, COLORADO SPRINGS UTILITIES, MSMD, DISTRICT ENGINEER AND THE SOILS ENGINEER.

6. ALL UTILITY TRENCH BACKFILL SHALL BE PLACED PER THE APPROVED SOILS REPORT RECOMMENDATIONS AND UNDER THE DIRECTION OF THE SOILS ENGINEER. TRENCH BACKFILL SHALL BE MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF OPTIMUM AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D 1557) OR HIGHER STANDARD AS REQUIRED BY THE EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT OR THE SOILS ENGINEER RECOMMENDATION. THIS SHALL INCLUDE ALL MAIN LINE, VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES, CLEAN OUTS, INLET BOXES, MANHOLES, ETC. A QUALIFIED SOILS ENGINEER SHALL OBSERVE AND TEST THE BACKFILL AND COMPACTION OF ALL TRENCHES AND ALL REPORTS SHALL BE SUBMITTED TO MSMD FOR REVIEW AND APPROVAL.

7. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT THE REVISIONS OF THE CONSTRUCTION DRAWINGS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.

8. ALL WATER AND SANITARY SEWER SERVICE LATERAL LOCATIONS SHALL BE CLEARLY MARKED BY STAMPING AN "S" FOR SEWER AND/OR A "W" FOR WATER ON THE CURB FACE AT EACH SERVICE LATERAL LOCATION. ALL SLEEP LOCATIONS SHALL BE CLEARLY MARKED BY STAMPING AN "X" ON THE CURB FACE. ALL PRIVATE IRRIGATION SLEEVES SHALL BE MARKED BY STAMPING AN "I" ON THE TOP OF THE SIDEWALK.

9. BENDS, DEFLECTIONS & CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5' FROM THE DESIGNED ALIGNMENT.

10. AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS, PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A REVERSE ANCHOR AT ALL WATER LINE PLUGS AND BLOW OFFS.

11. ALL EXISTING UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED IN PLACE AND FUNCTION CONTINUOUSLY DURING ALL CONSTRUCTION OPERATIONS. SHOULD A MSMD UTILITY FAIL OR BE DAMAGED AS A RESULT OF THE CONSTRUCTION OPERATION, IT SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR PER ALL MSMD SPECIFICATIONS. IN THE EVENT THE CONTRACTOR CANNOT IMMEDIATELY MAKE THE REPAIRS TO THE FAILED OR DAMAGED MSMD UTILITY TO THE SATISFACTION OF MSMD, MSMD MAY REPAIR OR CAUSE THE REPAIR AND BACK CHARGE ALL SUCH COSTS TO THE CONTRACTOR.

12. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY AND ALL DAMAGE CAUSED BY THE CONTRACTOR DURING CONSTRUCTION ACTIVITIES TO ALL ABOVE OR BELOW GROUND IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB, GUTTER, SIDEWALK, ASPHALT, ELECTRIC SYSTEMS, GAS SYSTEMS, TELEPHONE/TELEVISION SYSTEMS, ETC.

13. A PRECONSTRUCTION CONFERENCE MEETING SHALL BE HELD AT THE PROJECT SITE A MINIMUM OF 7 DAYS BEFORE CONSTRUCTION BEGINS AND SHALL BE ATTENDED BY ALL REPRESENTATIVES RESPONSIBLE FOR CONSTRUCTION, INSPECTION, SUPERVISION, TESTING AND ALL OTHER ASPECTS OF THE WORK. THE CONTRACTOR SHALL NOTIFY MSMD AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION FOR SCHEDULING. THE CONTRACTOR SHALL SCHEDULE BI-WEEKLY CONSTRUCTION MEETINGS AT THE PROJECT SITE OR MORE FREQUENTLY AS DEEMED NECESSARY BY MSMD.

14. PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN TIME THAT MSMD ACCEPTS THE FACILITY FOR USE AND ALL SURFACE IMPROVEMENTS AND RESTORATIONS ARE COMPLETED.

15. FINAL ACCEPTANCE BY MSMD OF ANY UTILITY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS. THE WARRANTY PERIOD FOR ALL FACILITIES SHALL BE 12 MONTHS COMMENCING WITH FINAL ACCEPTANCE. MSMD MAY REQUIRE RETESTING OF THE UTILITY SYSTEM PRIOR TO FINAL ACCEPTANCE.

16. INSPECTION FEES: CALL MSMD FOR FEE SCHEDULE OR VIEW AT WWW.MERIDIANRANCHMETRO.ORG.

17. ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE A MINIMUM EIGHT INCH DIAMETER WATER MAIN LOOPED THROUGH THE PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS AND EXITS THE PROPERTY AND A MINIMUM EIGHT INCH SANITARY SEWER MAIN WITH A MANHOLE IN THE STREET WHERE THE MAIN ENTERS THE PROPERTY. THE EXTENT OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATELY COLORED CARSONITE MARKERS AND TRACER WIRE.

18. AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES, AND/OR SERVICES, CONSTRUCTION MUST BE COMPLETED WITHIN 18 MONTHS FOR RESIDENTIAL SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS. IF WORK IS NOT COMPLETED WITHIN THIS TIME FRAME AND NO EXTENSION HAS BEEN GIVEN, THEN ALL PLANS MUST BE RE-SUBMITTED TO MSMD FOR REVIEW (WITH NEW FEES PAID) AND APPROVAL.

19. PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY MSMD AND THE ENGINEER OF RECORD PRIOR TO EXECUTION.

20. ANY FACILITIES OUTSIDE OF PAVED ROADS MUST BE MARKED APPROPRIATELY WITH CARSONITE MARKERS AT EACH VALVE, MANHOLE, TEST STATION, AND ANY OTHER FACILITIES MSMD DEEMS NECESSARY.

SANITARY SEWER NOTES

21. SANITARY SEWER MANHOLES WITH ONE ENTRANCE PIPE SHALL BE A MINIMUM OF FOUR (4) FOOT IN DIAMETER, ALL OTHERS SHALL BE A MINIMUM OF FIVE (5) FOOT IN DIAMETER. ALL MANHOLE JOINT EXTERIORS SHALL BE WRAPPED WITH MINIMUM 12" WIDE CON-SEAL CS-212 APPLIED OVER APPROPRIATE MSMD APPROVED JOINT PRIMER. THE WHOLE EXTERIOR OF THE MANHOLES SHALL BE COATED WITH CONCRETE WATER PROOFING TAR APPLIED PER CSUS.

22. ALL SANITARY SEWER MAINS, SANITARY SEWER LATERALS, AND WATER MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH COATED 12 GAUGE U.F. TRACER WIRE PER MSMD SPECIFICATIONS. SANITARY SEWER TRACER WIRE SHALL BE EXTENDED INTO THE MANHOLES AND WRAPPED AROUND THE TOP STEP OF THE MANHOLE AND EXTENDED TO EACH SANITARY SEWER LATERAL 2" X 4" MARKER AS NOTED BELOW (NOTE 26 AND 28). EXTEND TRACER WIRE TO THE TOP OF WATER VALVE BOXES A MINIMUM OF EVERY 500 FEET.

23. TESTING OF FACILITIES:

a. THE CONTRACTOR SHALL NOTIFY MSMD A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING TO ALLOW MSMD STAFF TO BE PRESENT AT ALL TIMES DURING TESTING. ALL TESTING SHALL BE PER MSMD SPECIFICATIONS OR CSUS, WHICHEVER IS GREATER.

b. ALL SANITARY SEWER FACILITIES SHALL MEET THE FOLLOWING TESTING REQUIREMENTS:

- ALL SANITARY SEWER MAIN SHALL BE PRESSURE TESTED PER CSUS.
- ALL SEWER MAIN SHALL BE PROPERLY BALLED/MANDRILL.
- ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED PER CSUS.

•ALL SANITARY SEWER MAINS SHALL BE CCTV INSPECTED WITH TWO VIDEOS ON DVDs SUBMITTED TO MSMD FOR REVIEW AND APPROVAL. ALL SANITARY SEWER MAINS SHALL BE JET CLEANED AND FLUSHED DIRECTLY PRIOR TO CCTV INSPECTION WITH RUNNING WATER IN THE SANITARY SEWER MAIN DURING THE CCTV INSPECTION. SANITARY SEWER MAINS THAT DO NOT MEET MSMD STANDARDS SHALL BE REPLACED AND OR REPAIRED AS NECESSARY AND RE-TESTED.

24. COMMENCEMENT OF USE OF ANY SANITARY SEWER LINES AND/OR SYSTEMS. NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL:

- a. MSMD HAS APPROVED ALL TESTS AND COMPACTION TESTING REPORTS, AS-BUILT DRAWINGS AND REVIEWS ARE SUBMITTED TO AND APPROVED BY MSMD.
- b. ALL SANITARY SEWER LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, ANY REQUIRED SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
- c. ALL NECESSARY EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED TO MSMD, AND RECORDED.
- d. DOWNSTREAM PLUG CAN BE REMOVED ONCE FIRST LIFT OF ASPHALT IS DOWN AND THE ABOVE REQUIREMENTS ARE MET.

25. WHEN A RESIDENTIAL SEWER SERVICE IS INSTALLED ON AN EXISTING SEWER MAIN A DOUBLE STRAP STAINLESS STEEL SADDLE TEE SHALL BE USED. THE SADDLE TEE, GASKET HUB & GASKET SKIRT MUST BE A STRAIGHT STYLE CONNECTION; NO "Y" STYLE WILL BE ALLOWED. ALL SEWER SERVICE CORE CUTOUTS MUST BE RECOVERED AND RETURNED TO THE DISTRICT FOR INSPECTION. IF ALL SEWER SERVICE CORE CUTOUTS ARE RECOVERED AND COMPLETE, THEN NO VIDEO INSPECTION OF THAT PORTION OF THE SEWER MAIN IS REQUIRED. IF ANY SEWER SERVICE CORE CUTOUT OR PORTION THERE FROM IS NOT RECOVERED, THAT SECTION OF SEWER MAIN SHALL BE CLEANED AND VIDEO INSPECTED TO ENSURE THAT THE SEWER SERVICE CORES OR PORTION THERE FROM IS RECOVERED.

26. SANITARY SEWER MAIN LENGTHS ARE MH CENTER TO MH CENTER. ALL SANITARY SEWER PIPES SHALL BE SDR 35 PVC OR EQUIV. AND HAVE A MINIMUM COVER DEPTH OF 5'-6" INSTALLED WITH A COATED 12 GAUGE U.F. TRACER WIRE. USE PRE-MANUFACTURED IN-LINE PVC PUSH-ON WYES FOR SANITARY SEWER LATERAL CONNECTIONS TO THE SANITARY SEWER MAIN. TAPPING SADDLES MAY ONLY BE USED FOR TAPPING PRE-EXISTING SANITARY SEWER MAINS. ALL LOTS SHALL RECEIVE A 4" SANITARY SEWER SERVICE LATERAL. THE END OF EACH SANITARY SEWER SERVICE LATERAL SHALL BE "LOCATED" WITH A WOOD 2" X 4" EXTENDED 4' ABOVE FINISH GRADE FROM THE END OF THE SERVICE LOCATION AND PAINTED GREEN ABOVE FINISH GRADE. EXTEND THE COATED 12 GAUGE U.F. TRACER WIRE TO END OF EACH SANITARY SEWER LATERAL UP TO THE SURFACE COILED AROUND THE 2" X 4" MARKER. ALL TRACER WIRE CONNECTIONS SHALL BE WATER TIGHT STYLE OF APPROVED ELECTRICAL CONNECTORS SUCH AS A DBY (DIRECT BURY YELLOW) OR EQUAL.

WATER NOTES

27. ALL WATER MAIN PIPES SHALL BE AWWA C900 PVC, PRESSURE CLASS 200 OR MSMD APPROVED EQUAL, INSTALLED PER MANUFACTURERS' SPECIFICATIONS. ALL WATER MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER MAIN PIPES SHALL HAVE A MINIMUM COVER DEPTH OF 5'-6" INSTALLED WITH A COATED 12 GAUGE U.F. TRACER WIRE.

28. ALL LOTS SHALL RECEIVE A MINIMUM 3/4 " DIAMETER HDPE OR COPPER WATER SERVICE INSTALLED PER APPROVED PLANS CSUS AND MSMD SPECIFICATIONS. HDPE WATER SERVICE SHALL BE HDPE SDR-7 PE4710 RATED FOR 200 PSI WITH THE MARKING SDR-7, AWWA C901, NSF61 PE4710. WATER SERVICES SHALL BE INCREASED IN SIZE TO 1" DIAMETER WHERE THE RESIDENTIAL SERVICE WATER PRESSURE IS LESS THAN 40 PSI AT 10 GPM DEMAND AND ALL 1/3 ACRE OR GREATER LOTS SHALL RECEIVE A MINIMUM 1" DIAMETER WATER SERVICE AS INDICATED ON THE PLANS. THE CURB STOP VALVE AND BOX AT THE END OF EACH WATER SERVICE SHALL BE "LOCATED" WITH A 2" X 4" PIECE OF WOOD EXTENDED 4' ABOVE FINISH GRADE, PAINTED BLUE, DIRECTLY BEHIND THE CURB STOP VALVE AND BOX. ALL TRACER WIRE CONNECTIONS SHALL BE MADE WITH DBY (DIRECT BURY YELLOW) WATER TIGHT STYLE ELECTRICAL CONNECTORS OR EQUAL.

29. IF HDPE WATER SERVICES ARE TO BE USED THEY SHALL INCLUDE A ROMAC 202 NS OR EQUAL TAPPING SADDLE AND A CURB STOP VALVE INSIDE A CURB STOP BOX AT THE END OF THE WATER SERVICE. ALL CORPORATION STOPS SHALL BE AY MCDONALD MODEL NUMBER 74701B-33 FOR SDR HDPE SAME SIZE AS THE WATER SERVICE. ALL CURB STOP VALVES SHALL BE ¾" AY MCDONALD MODEL NUMBER 76100 (FLARE X FLARE) OR EQUIVALENT WITH A MAIN SIDE ONE PACK JOINT (PEP) ADAPTOR AY MCDONALD MODEL NUMBER 74755-33 UNLESS OTHERWISE NOTED ON THE PLANS. ALL 1" DIAMETER WATER SERVICES SHALL RECEIVE A 1" INLET BY ¾" OUTLET CURB STOP VALVE.

30. IF COPPER WATER SERVICES ARE TO BE USED THEY SHALL INCLUDE A ROMAC 202 BS OR EQUAL TAPPING SADDLE AND A CURB STOP VALVE INSIDE A CURB STOP BOX AT THE END OF THE WATER SERVICE. ALL CURB STOP VALVES SHALL BE ¾" UNLESS OTHERWISE NOTED ON THE PLANS. ALL 1" DIAMETER WATER SERVICES SHALL RECEIVE A 1" INLET BY ¾" OUTLET CURB STOP VALVE MANUFACTURED BY AY MCDONALD MODEL NUMBER 6104 (FLARE X FLARE) OR EQUIVALENT.

31. ALL POTABLE WATER VALVES SHALL OPEN CLOCKWISE WITH THE VALVE OPERATING NUT INSTALLED LOW NEAR THE MAIN LINE AND PAINTED RED. ALL POTABLE AND RAW WATER VALVES NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARSONITE MARKERS. ALL RAW WATER VALVES SHALL OPEN COUNTERCLOCKWISE WITH THE VALVE OPERATING NUT INSTALLED HIGH WITHIN 1' FROM THE SURFACE AND PAINTED BLACK.

32. ALL POTABLE WATER, RAW WATER AND NON-POTABLE WATER VALVES 14" OR GREATER SHALL BE BUTTERFLY VALVES WITH A SIDE OPERATING NUT. THE OPERATIONAL DEPTH OF THE POTABLE WATER VALVES SHALL NOT EXCEED 6' IN OVERALL DEPTH NOR SHALL IT BE CLOSER TO THE SURFACE THEN 4'

33. FIRE HYDRANT LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE APPLICABLE FIRE DEPARTMENT AUTHORITY.

34. FIRE HYDRANTS SHALL BE AVK MODEL 2780 NOSTALGIC (PART # 27ND-023XX-0010B-AN) OPEN RIGHT WITH A 1 ½" PENTAGON OPERATING NUT AND SERVICE CAPS, STANDARD 4 1/2" PUMPER NOZZLE WITH A THREAD PATTERN OF 5 - 3/8" - 6 TPI (THREADS PER INCH) ALONG WITH TWO STANDARD 2 ½" NST (NATIONAL STANDARD THREAD) SIZE NOZZLES. HYDRANT SHALL BE PAINTED WITH RUSTOLEUM SAFETY YELLOW.

35. ALL DUCTILE IRON PIPES, FITTINGS, VALVES AND FIRE HYDRANTS SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.

36. ALL DUCTILE IRON PIPE AND FITTINGS LESS THAN 12 INCHES IN DIAMETER SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON PIPE AND FITTINGS 12 INCHES AND GREATER SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. CATHODIC PROTECTION AND ANODES SHALL BE INSTALLED PER MSMD SPECIFICATIONS.

37. ALL EXISTING WATER UTILITY MATERIAL REMOVED AS PART OF THE WORK ON THESE DRAWINGS SHALL BE RETURNED TO MSMD AS REQUESTED.

38. TESTING OF FACILITIES:

a. THE CONTRACTOR SHALL NOTIFY MSMD A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING TO ALLOW MSMD STAFF TO BE PRESENT AT ALL TIMES DURING TESTING. ALL TESTING SHALL BE PER MSMD SPECIFICATIONS OR CSUS, WHICHEVER IS GREATER.

b. ALL SECTIONS OF WATER LINES MUST FIRST PASS A CHLORINE TEST WITH A MINIMUM OF 50 PARTS PER MILLION OF RESIDUAL AFTER 24 HOURS. THE WHOLE SECTION OF LINE BEING TESTED MUST BE RE-CHLORINATED AND RE-TESTED IF IT DOES NOT PASS. ONCE THE SECTION OF LINE BEING TESTED PASSES THE CHLORINE TEST THE LINE MUST BE FLUSHED AND BAC-T TESTED PER CSUS. ONCE THE BAC-T TEST PASSES, THE SECTION OF LINE MAY BE PRESSURE TESTED. WATER FLUSHED FROM THE WATER SYSTEM MUST BE PROPERLY DE-CHLORINATED DURING THE FLUSHING PROCESS.

c. ALL SECTIONS OF WATER LINES MUST PASS A TWO HOUR 200 PSI HYDROSTATIC PRESSURE TEST. THE PRESSURE SHALL NOT DECREASE BY MORE THAN 5 PSI DURING THE DURATION OF THE TEST. NO WATER SHALL BE ADDED DURING THE PRESSURE TEST. IF THE PRESSURE TEST FAILS, THE SECTIONS OF LINE THAT FAILED MUST AGAIN PASS THE CHLORINE TEST, BE FLUSHED, AND PASS THE BAC-T TEST PRIOR TO CONDUCTING A NEW PRESSURE TEST.

d. ONCE WATER SERVICES ARE INSTALLED A SECOND WATER PRESSURE TEST MUST BE DONE TO A WORKING PSI OF 150 PSI FOLLOWING THE ABOVE TESTING STANDARDS.

e. SECTIONS OF WATER LINES SHALL BE LEFT PRESSURIZED ONCE THE WATER LINES HAVE PASSED ALL TESTING DURING THE REMAINING CONSTRUCTION ACTIVITIES.

39. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL:

a. MSMD HAS APPROVED ALL TESTS AND COMPACTION TESTING REPORTS, AND AS-BUILT DRAWINGS ARE SUBMITTED TO AND APPROVED BY MSMD.

b. ALL WATER LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.

c. ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED TO MSMD, AND RECORDED.

40. ANY WATER SHUT DOWNS THAT NEED TO OCCUR ON THE CRITICAL LINES AS DEFINED BY THE MSMD SOP (STANDARD OPERATION PROCEDURE) MANUAL SHALL BE COORDINATED WITH MSMD STAFF FOR NIGHT TIME SHUT DOWNS.

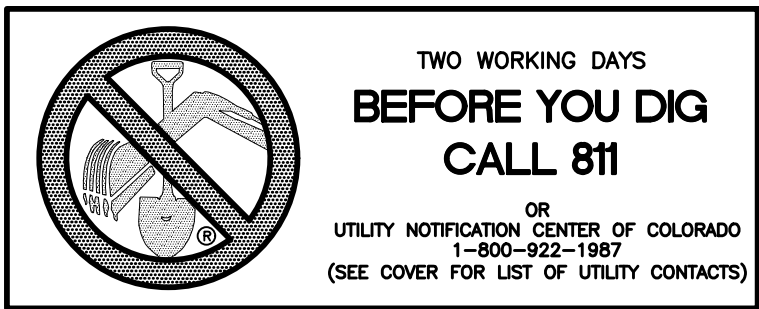
41. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO EXISTING WATER MAINS WITHOUT A SHUTDOWN OF THE WATER SYSTEM. IN THE EVENT THAT A SHUTDOWN OF A WATER SYSTEM IS NECESSARY, THE CONTRACTOR SHALL ACQUIRE A PERMIT FROM MSMD.

42. ALL NON-POTABLE WATER MAINS SHALL BE AWWA NON-POTABLE STANDARD (PURPLE PIPE) C900 PVC, PRESSURE CLASS 200 OR MSMD APPROVED EQUAL, INSTALLED PER MANUFACTURERS' SPECIFICATIONS. ALL WATER MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER MAIN PIPES SHALL HAVE A MINIMUM COVER DEPTH OF 5'-6" INSTALLED WITH A COATED 12 GAUGE U.F. TRACER WIRE.

43. ALL NON- POTABLE WATER VALVES SHALL OPEN COUNTER CLOCKWISE WITH A VALVE EXTENSION, EXTENDING TO WITHIN 1' OF THE SURFACE AND PAINTED PURPLE WITH AN OPEN DIRECTION ARROW.

44. IRRIGATION SERVICES SHALL HAVE A STOP AND WASTE CURB STOP VALVE INSTALLED ALONG WITH A TRACER WIRE EXTENDING BACK TO THE MAIN LINE.

THE ABOVE GUIDELINES ARE SUBJECT TO CHANGE AT ANY TIME.



EL PASO COUNTY GENERAL 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.

2. 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 TIMES, INCLUDING THE FOLLOWING:  
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 BRIDGE CONSTRUCTION  
d. CDOT M & S STANDARDS

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 RESPONSIBILITY TO RECTIFY.

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.

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (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 AND STATE FUGITIVE DUST PERMITS.

8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. 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 DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]

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

15. 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.

8. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SITE IMPROVEMENTS (INCLUDING BUT NOT LIMITED TO: UTILITIES, STRUCTURES, PAVING, LANDSCAPING, ETC.) SUCH THAT NO DAMAGE IS DONE TO SITE IMPROVEMENTS (I.E.: SAWCUTTING NEW PAVEMENT). SITE IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED, TO EQUAL OR BETTER CONDITION, TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.

9. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE THAT A PRIOR UNIDENTIFIED SITUATION IS PRESENT, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

10. THE CONTRACTOR SHALL REMOVE ALL DEBRIS RESULTING FROM WORK UNDER THIS CONTRACT TO AN APPROVED DUMP SITE.


11. USE ONLY DIMENSIONS PROVIDED ON THESE PLANS. DO NOT SCALE DRAWINGS. INFORM ENGINEER OF ANY DISCREPANCIES AND/OR MISSING INFORMATION.

12. CONTRACTOR TO OBTAIN DEWATERING PERMIT, IF REQUIRED, FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) PRIOR TO COMMENCING WORK. DISCHARGES SHALL BE MONITORED ACCORDING TO THE CONDITIONS OF THE CDPHE PERMIT.

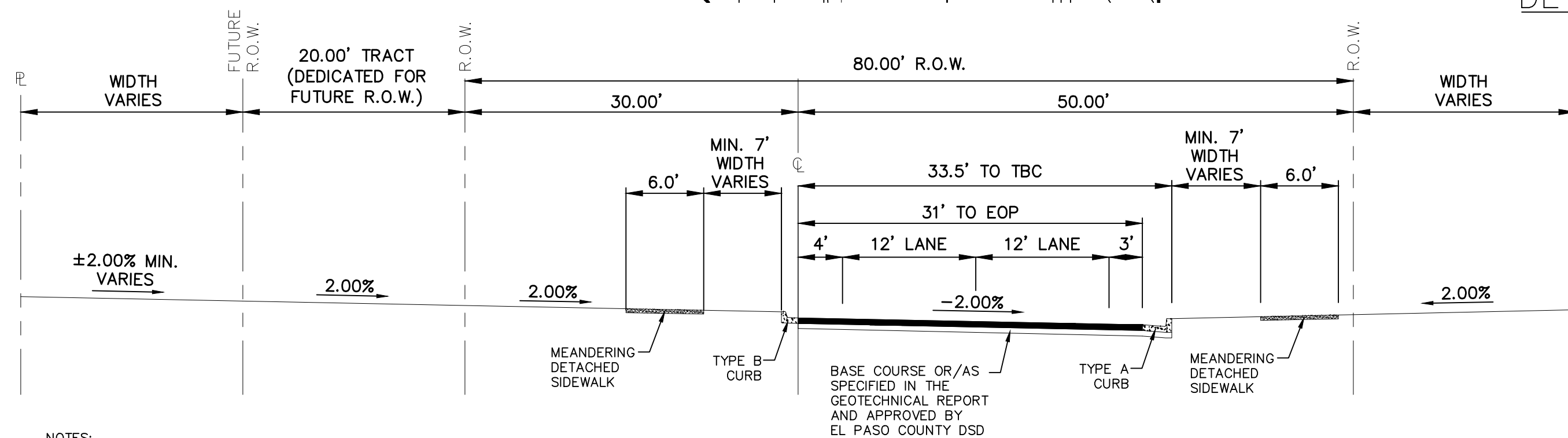
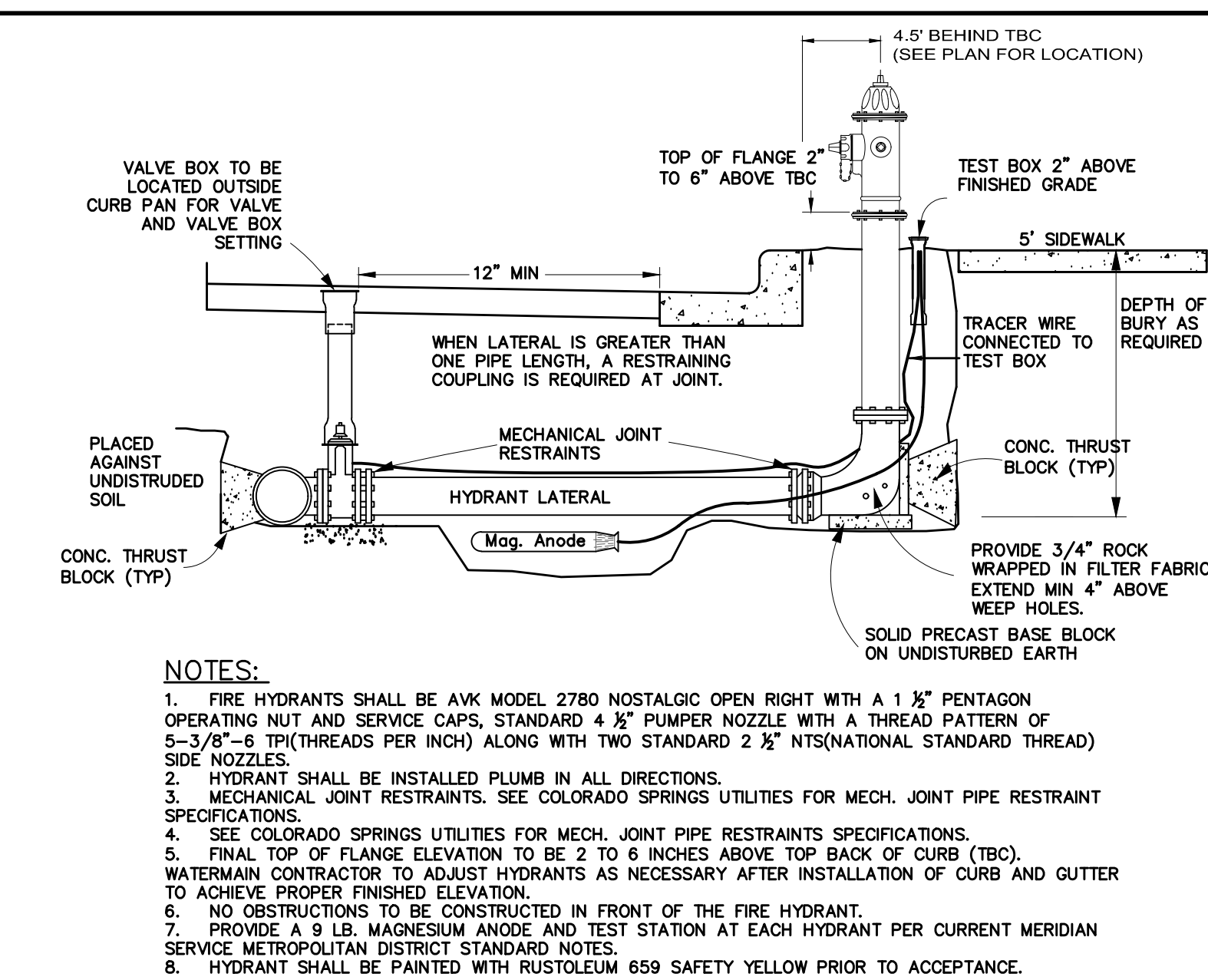
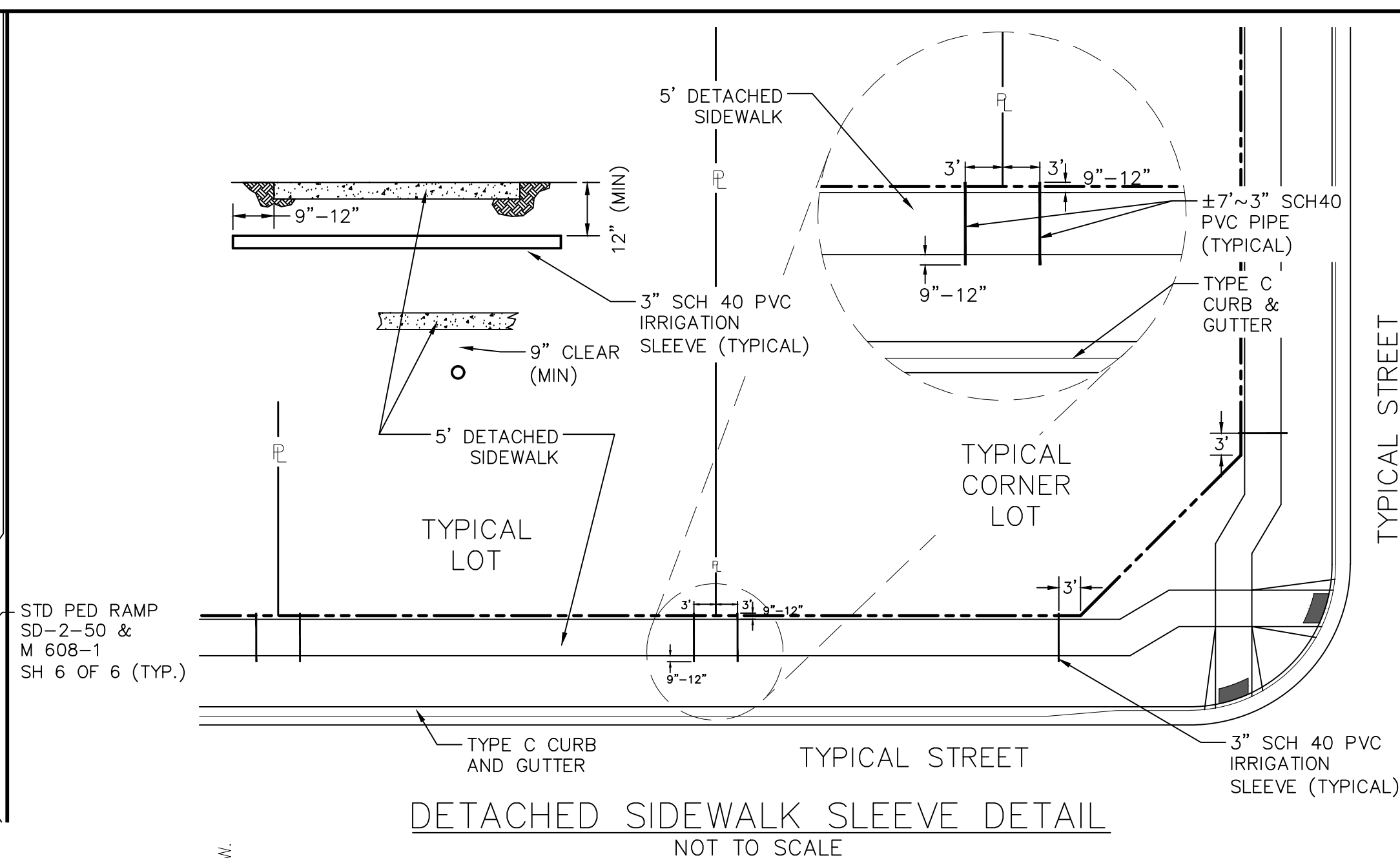
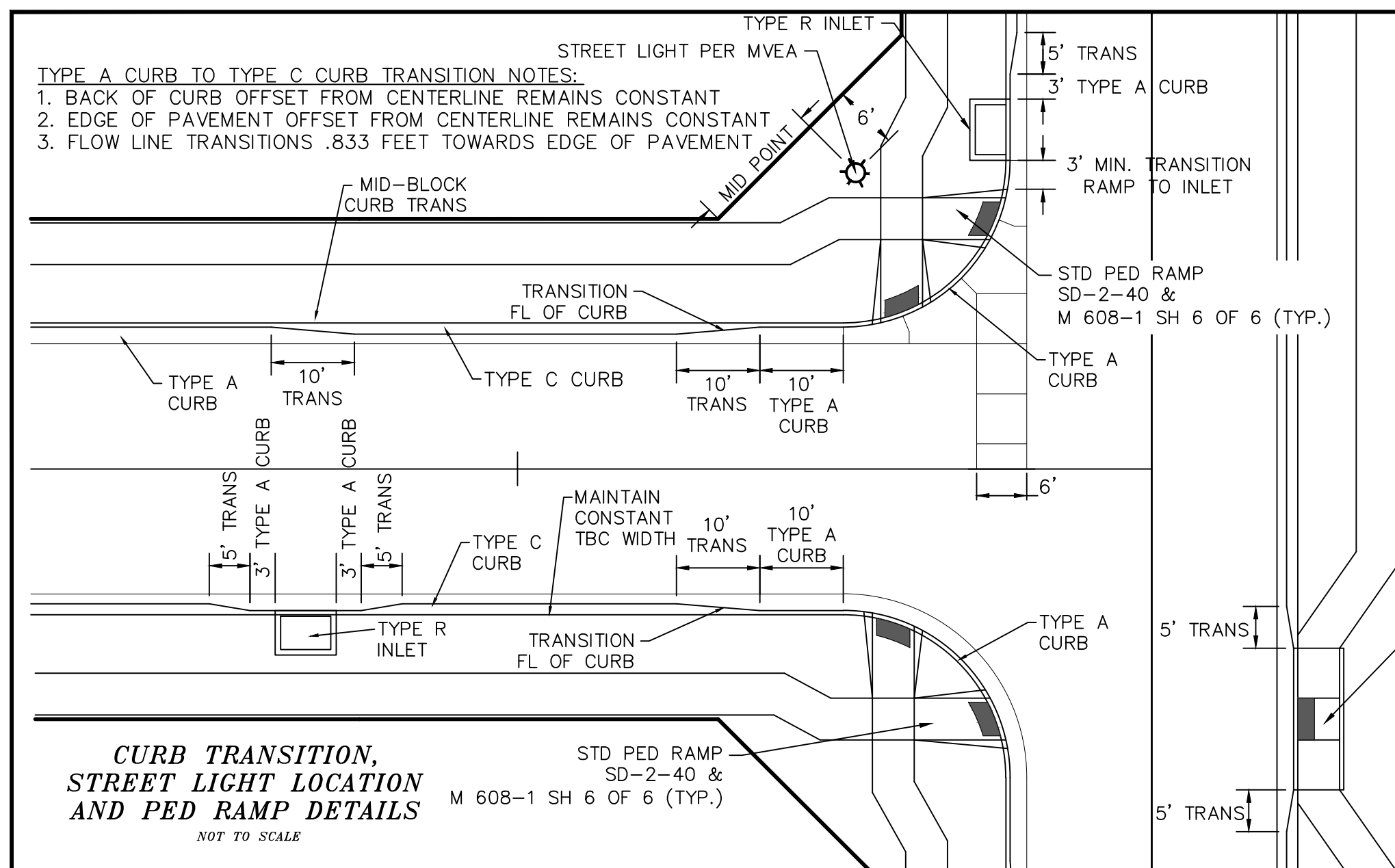
13. CONTRACTOR TO OBTAIN AND READ THE GEOTECHNICAL ENGINEERING STUDY) PREPARED FOR THIS PROJECT. IN CASE OF ANY CONFLICT WITH THESE PLANS AND SITEMARK SPECIFICATIONS REGARDING PAVING AND EARTHWORK, CONTACT ENGINEER IMMEDIATELY. ALL PAVING AND EARTH WORK SHALL CONFORM TO THE RECOMMENDATIONS OF THIS REPORT.

14. STREET NAME SIGNS TO BE MOUNTED ON TOP OF STOP SIGNS AT LOCATIONS SHOWN ON PLANS.

15. LAMBERT ROAD IS CLASSIFIED AS AN URBAN RESIDENTIAL COLLECTOR AND HAS A DESIGN SPEED OF 40 MPH WITH A POSTED SPEED OF 35 MPH. ALL OTHER ROADS IN THIS FILING EXCEPT ARE CLASSIFIED AS RESIDENTIAL URBAN LOCAL AND HAVE A DESIGN AND POSTED SPEED OF 25 MPH.

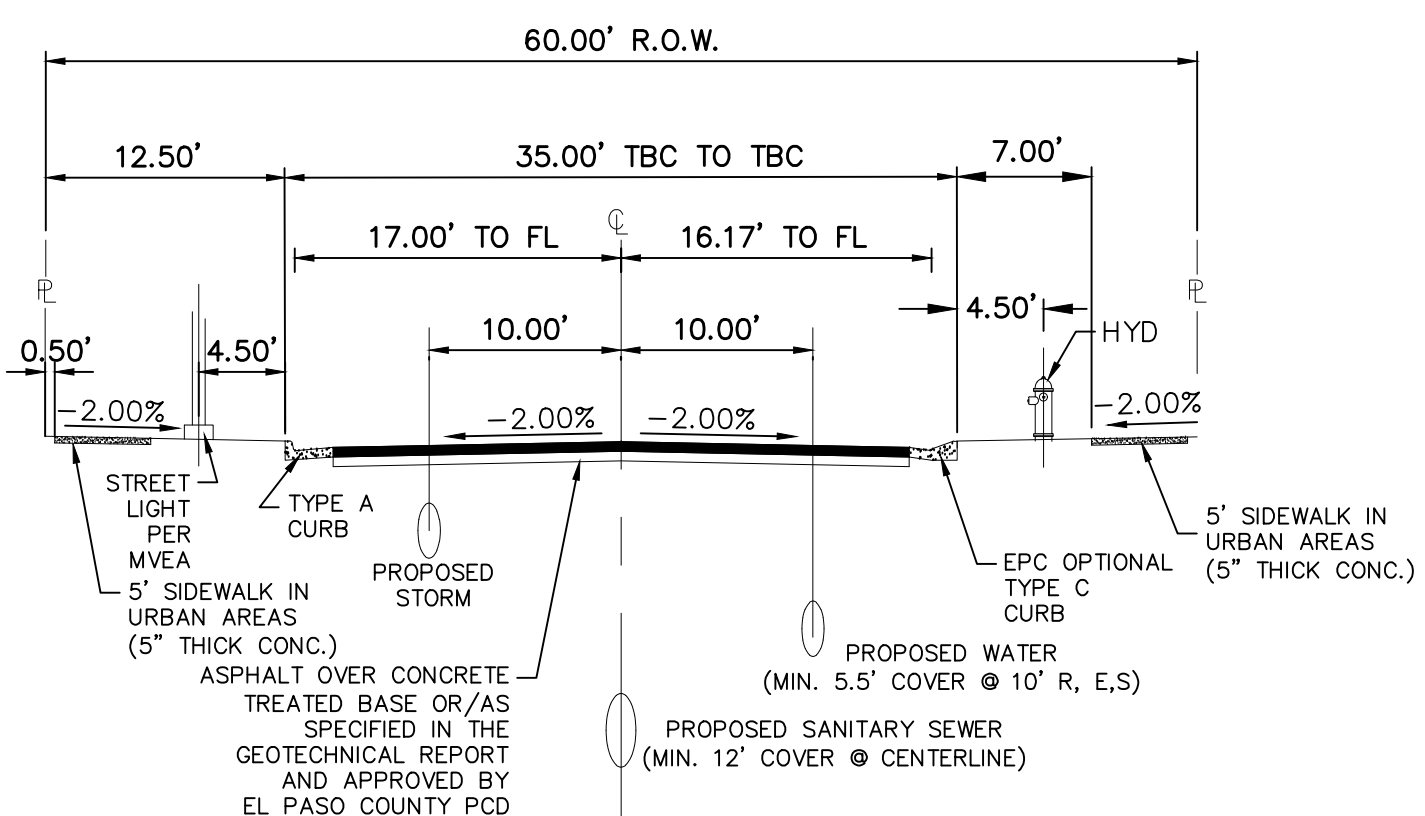
					Date
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					Date
					Revisions
1	2	3	4	No.	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX: 719.495.2457					
 MERIDIAN RANCH					
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS NOTES SHEET					
Scale	Drawn by	Loc	Checked by	TAK	Date
AS SHOWN					JULY 2020
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*TEMP. REX ROAD  
MINOR ARTERIAL*

SCALE : N.T.S.



NOTES:

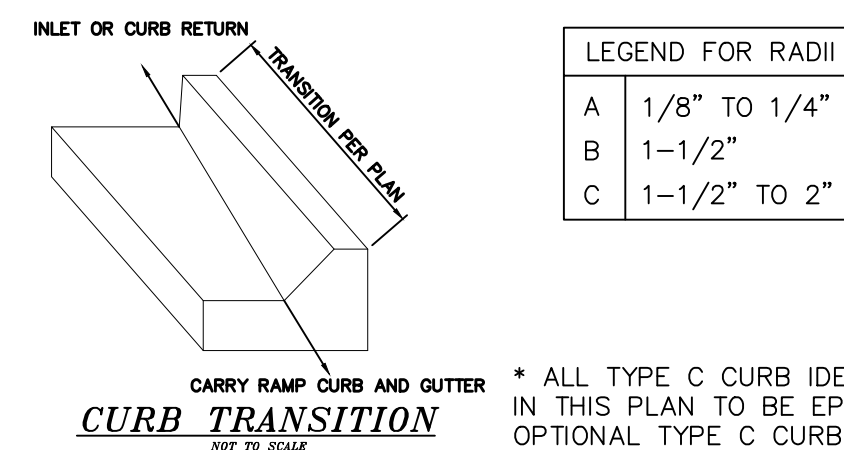
1. NON-STANDARD STREET SECTION PER DEVIATION NO. DEV134 APPROVED BY EL PASO COUNTY PCD.
2. OPTIONAL TYPE C CURB USED ON ALL RESIDENTIAL STREETS UNLESS OTHERWISE NOTED.
3. CLEAR ZONES MUST BE MAINTAINED AT ALL TIMES. ALL STRUCTURAL COMPONENTS LARGER THAN 4" IN DIA. MUST BE A MINIMUM OF 7" FROM EDGE OF TRAVEL WAY FOR TYPE C CURB AND 1.5" FROM FACE OF CURB FOR TYPE A CURB.
4. ASPHALT DETERMINED BY HVEEM METHOD AND APPROVED BY EL PASO COUNTY PCD.

ALL COUNTY SIDEWALK LOCATED WITHIN OR ADJACENT TO A COUNTY RIGHT OF WAY WILL BE 5" THICK PER ECM.

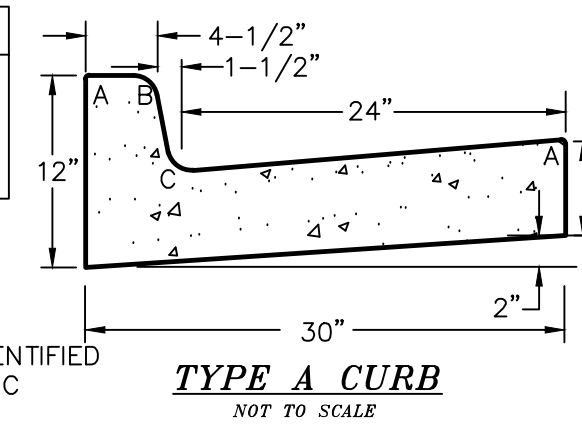
60' R.O.W.  
RESIDENTIAL ROAD  
(TYPICAL)

URBAN LOCAL &  
URBAN LOCAL LOW-VOLUME  
SCALE : N.T.S.

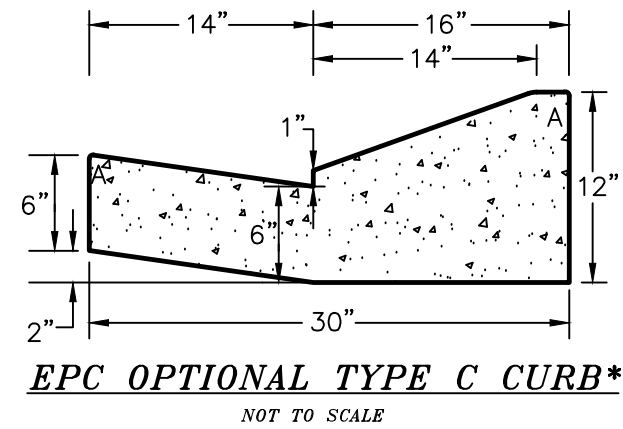
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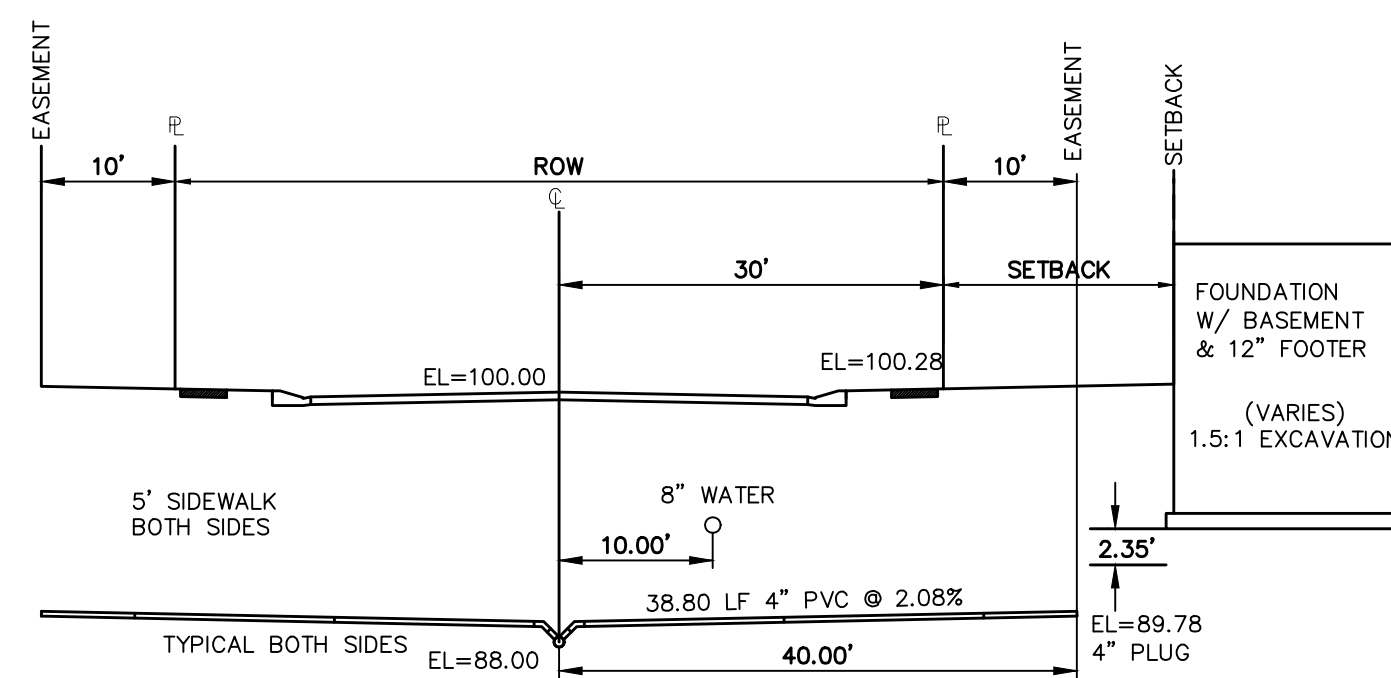
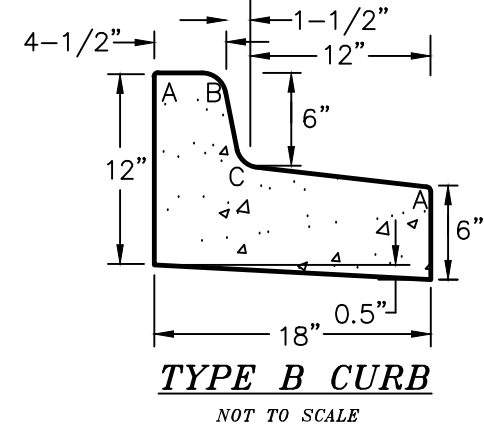
\* ALL TYPE C CURB IDENTIFIED  
IN THIS PLAN TO BE EPC  
OPTIONAL TYPE C CURB



EPC OPTIONAL TYPE C CURB\*  
NOT TO SCALE



**TYPE B CURB**  
NOT TO SCALE

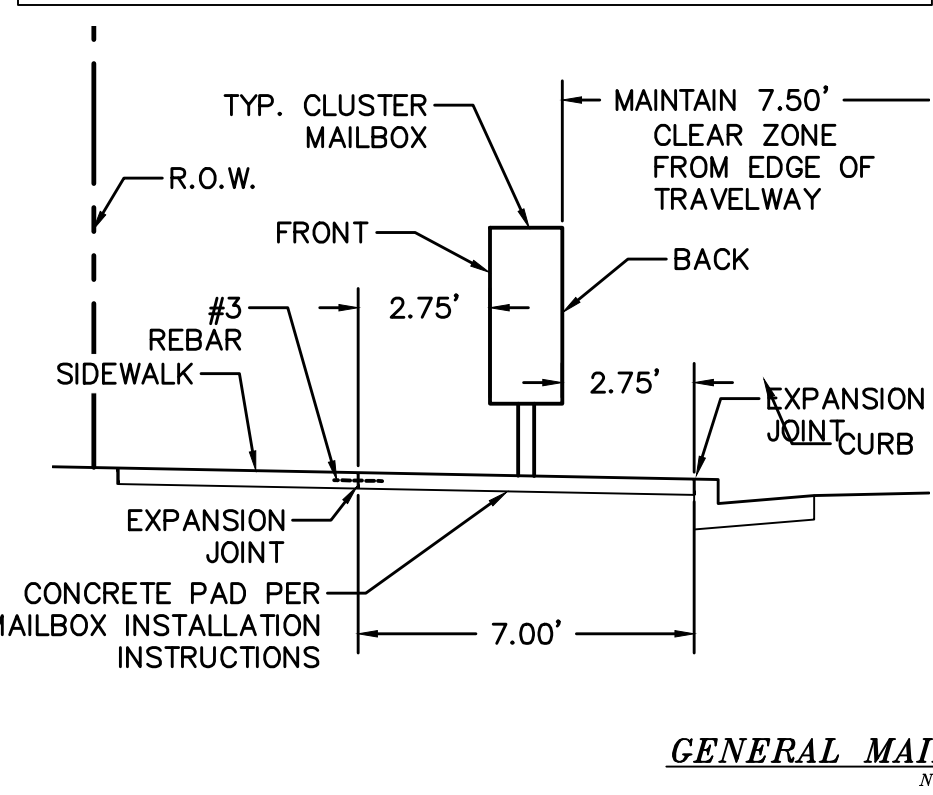


TYPICAL SEWER SERVICE CONNECTION DETAIL

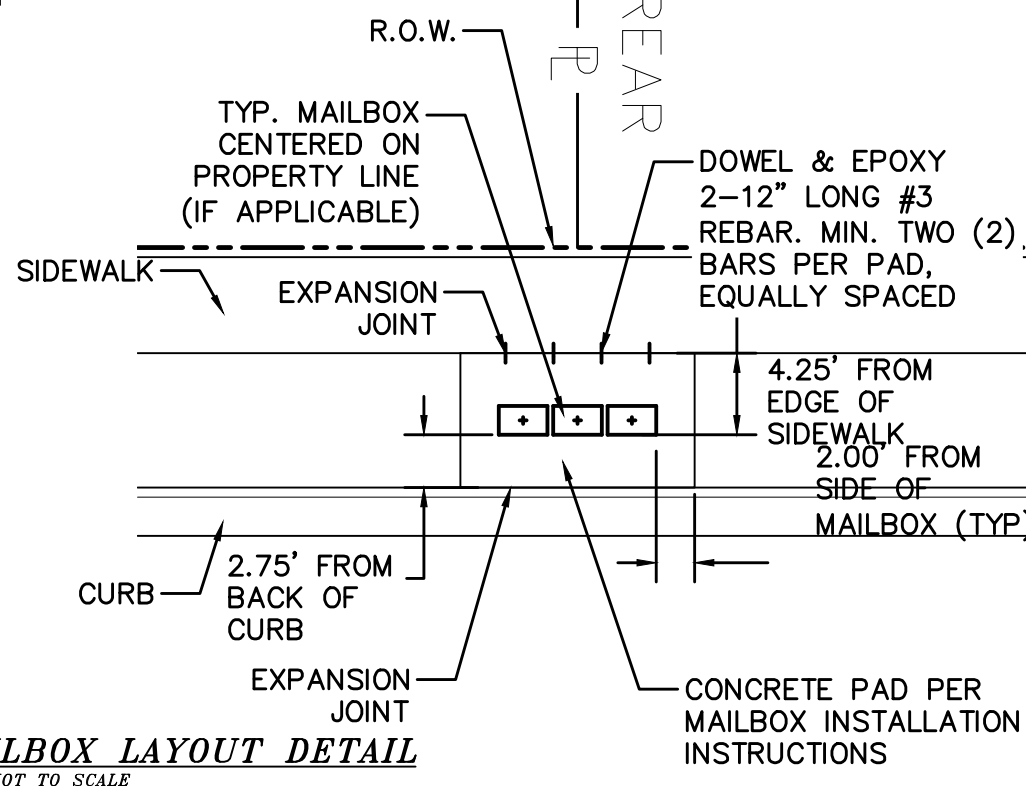
NOTE: SERVICE LINE MAY VARY IN DEPTH DUE TO SITE CONDITIONS OR THE CONSTRUCTION OF A CRAWL SPACE/BASEMENT UNDER THE HOUSE.

### MINIMUM SLOPES FOR WASTEWATER SERVICE LINES

4" PVC SDR 35	2.08% OR 1/4" PER FOOT
4" SCH 40 PVC	1.04% OR 1/8" PER FOOT
6" PVC SDR 35	1.04% OR 1/8" PER FOOT



GENERAL MAILBOX LAYOUT DETAIL  
NOT TO SCALE



TYPICAL TRENCH & BEDDING DETAIL

SCALE : N.T.S.

PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	4'-0"
6"	1'-6"	4'-0"
8"	1'-8"	4'-0"
12"	2'-0"	4'-0"
18"	3'-0"	4'-0"
24"	3'-6"	4'-0"
30"	4'-0"	6'-0"
36"	5'-0"	6'-0"
42"	6'-0"	8'-0"
48"	6'-0"	8'-0"
54"	8'-0"	8'-0"
60"	8'-0"	8'-0"
66"	8'-0"	10'-0"
72"	10'-0"	12'-0"

LEGEND		
<u>SYMBOL</u>	<u>ACRONYM</u>	<u>DESCRIPTION</u>
	RCP W/FES	REINFORCED CONCRETE PIPE W/FLARED END SECTIONS
	INLET	STORM SEWER INLET BOX
	SDMH	STORM SEWER MANHOLE
	ST	STORM SEWER LINE (PUBLIC UNLESS OTHERWISE NOTED)
	SS	SANITARY SEWER MAIN
	SSMH	SANITARY SEWER MANHOLE
	WM	WATER MAIN (ALL PIPES PVC, UNLESS OTHERWISE NOTED)
	GV	WATER GATE VALVE
	BV	WATER BUTTERFLY VALVE
	BOV	WATER BLOW-OFF VALVE
	HYD ASSY	FIRE HYDRANT ASSEMBLY
	TEE W/GV	WATER TEE W/ GATE VALVES
	ATT SW	ATTACHED SIDEWALK
		STANDARD PEDESTRIAN RAMP PER SD-2-40 & M-608-1 (SH 6 OF 6)
		ANODE (CATHODIC PROTECTION)
	TS	TEST STATION
	HB	HAY BALE DAM
	SF	SILT FENCE
	EXIST	EXISTING FEATURES
		LOT NUMBERS
		CROSS PAN PER SD-2-26
	SL	STREET LIGHT PER MOUNTAIN VIEW ELECTRIC ASSOCIATION (MVEA)
	R1-1	STOP SIGN - R1-1, 30x30 UNLESS OTHERWISE NOTED
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')

No.	Revisions	Date	Initt.	Appr.	Date
1		-			
2		-			
3		-			
4		-			

**TECH CONTRACTORS**  
**11886 STAPLETON DRIVE**  
**FALCON, CO 80831**  
**TELEPHONE: 719.495.7444**  
**FAX: 719.495.2457**

**MERIDIAN RANCH**

THE ESTATES AT  
ROLLING HILLS RANCH FILING 2  
STREET AND UTILITY PLANS

## DETAIL SHEET

Drawn by LOG	Checked by TAK	Date
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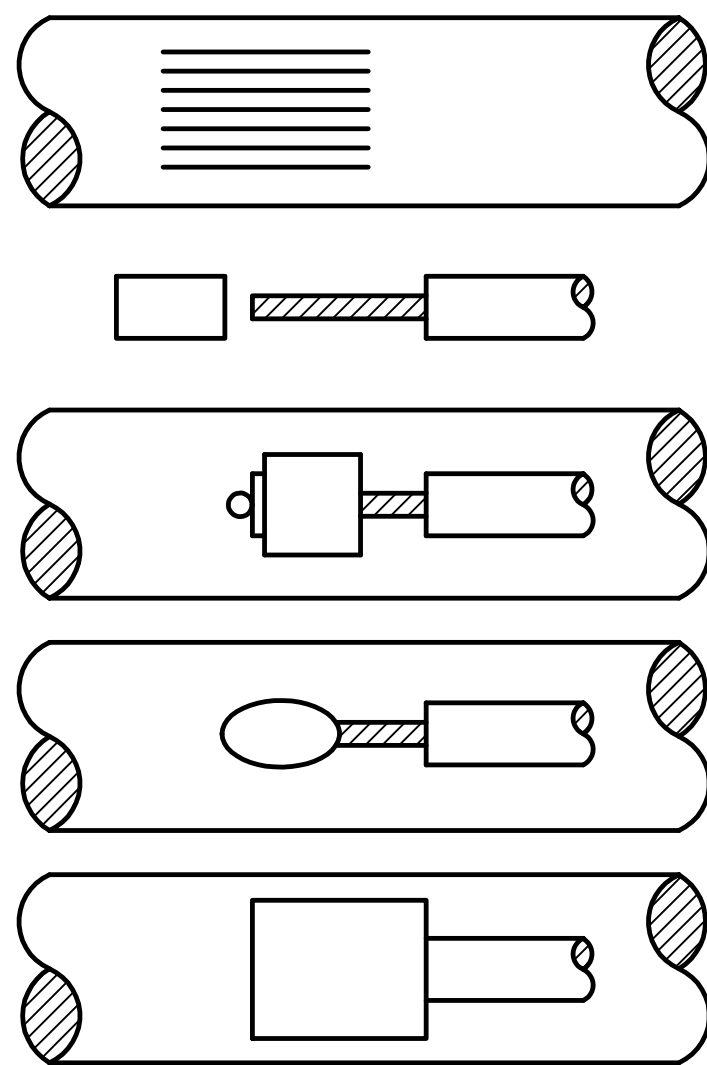
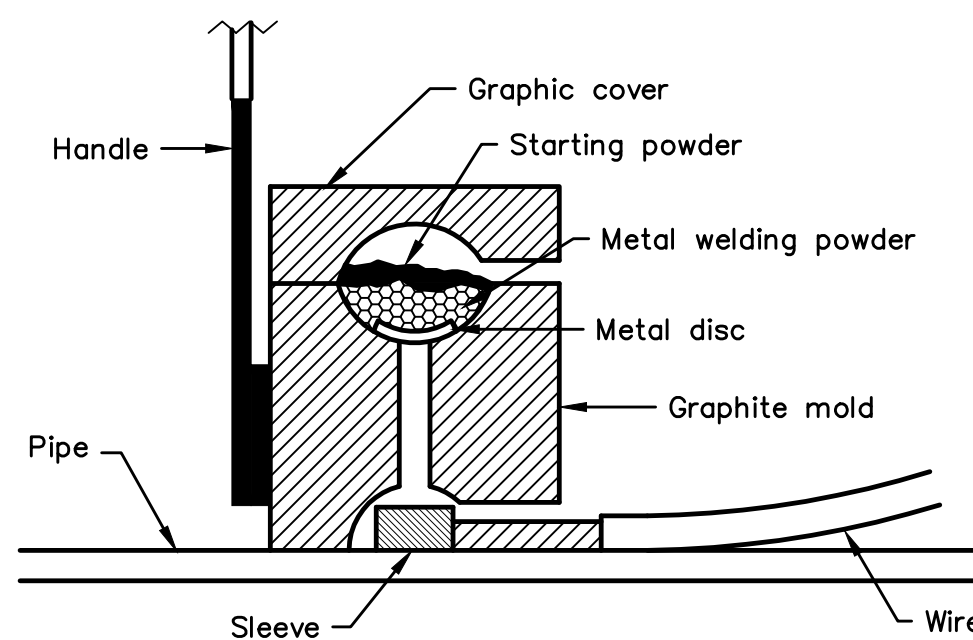
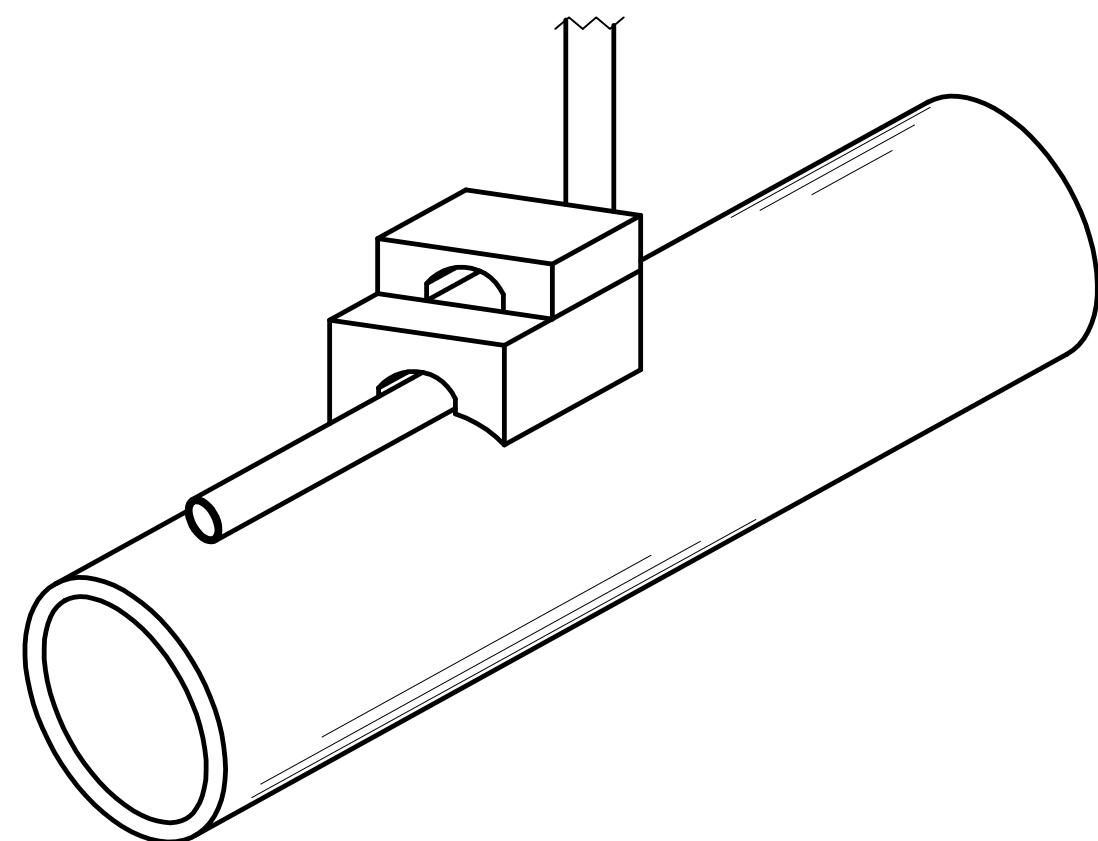
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ZINC ANODE

## ZINC ANODE AND CONNECTORS FOR 1" AND 2" WATER SERVICE



- STEP 1. File structure connection area (3 in x 3 in) to bare shiny metal and clean.
- STEP 2. Strip insulation from wire. Attach sleeve where required by manufacturer.
- STEP 3. Hold mold firmly with opening away from operator and ignite with flint gun.
- STEP 4. Remove slag from connection and peen weld for soundness.
- STEP 5. Cover connection and exposed structure surface with a bituminous coating compound. Place plastic shield cap firmly over connection.

NOTES:

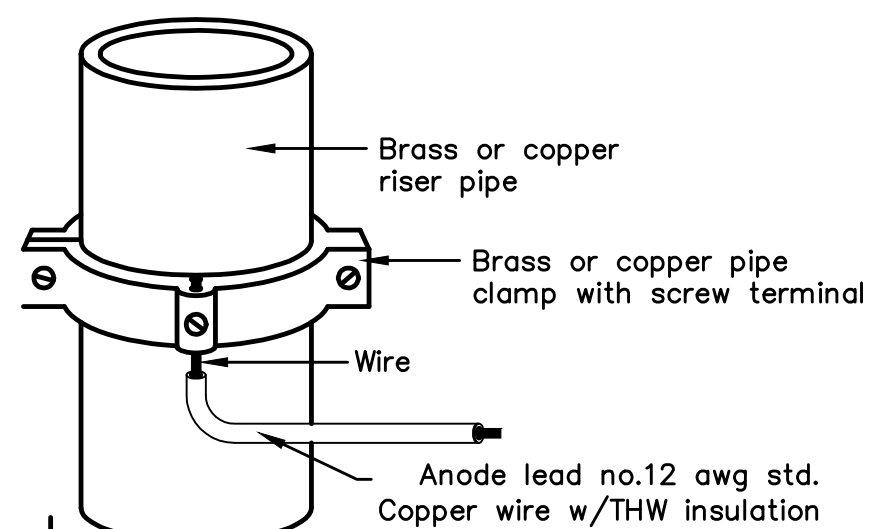
1. All wire welds shall be minimum 3 inches apart.
2. Standard weld cartridges shall be used for steel surfaces.

## EXOTHERMIC WELD PROCESS

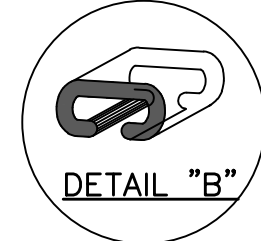
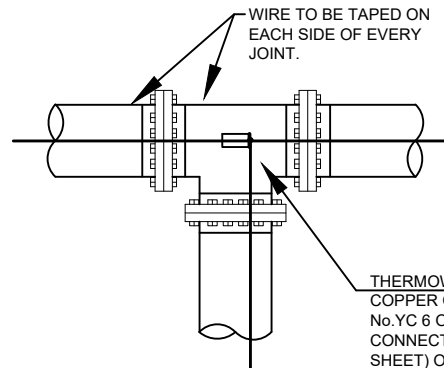
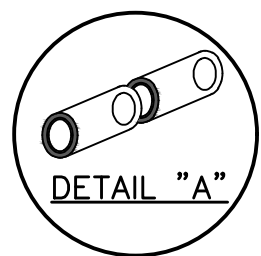
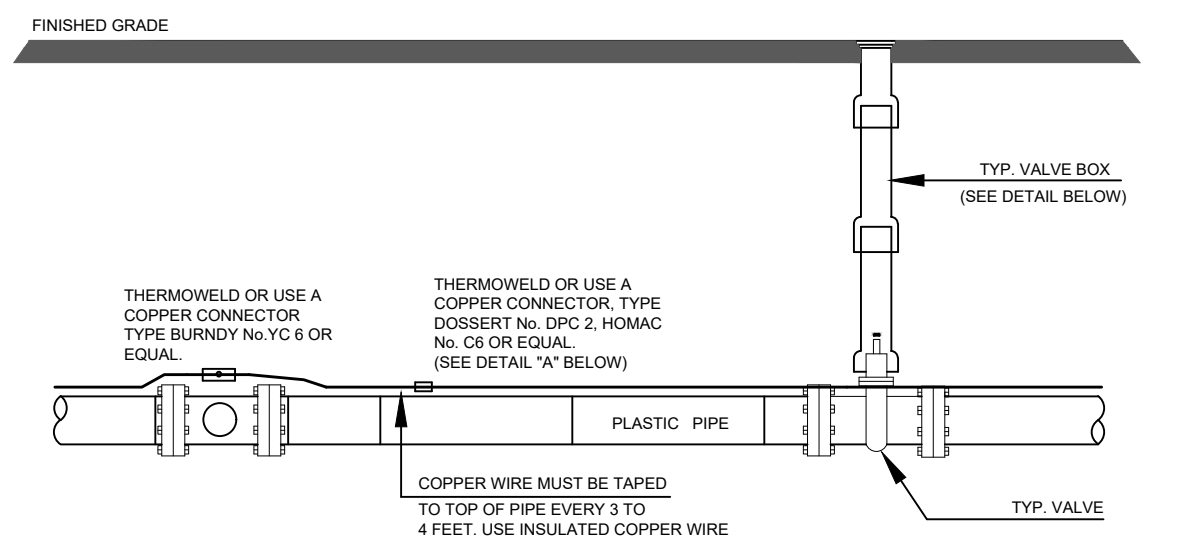
PACKAGED BACKFILL COMPOSITION:

75% gypsum  
20% bentonite  
5% sodium sulfate

Ingot weight: 30 lbs.  
Pkgd. Weight: 70 lbs. Approx.



ANODE LEAD ABOVE  
GRADE CONNECTION



NOTE

1. Contractor is responsible for continuity of all tracer wire.
2. Tracer wire is required on all pipes per MSMD specifications (PVC and HDPE).

## FIELD INSTALLATION OF POLYETHYLENE WRAP FOR DIP PIPE AND FITTINGS.

STEP 1:

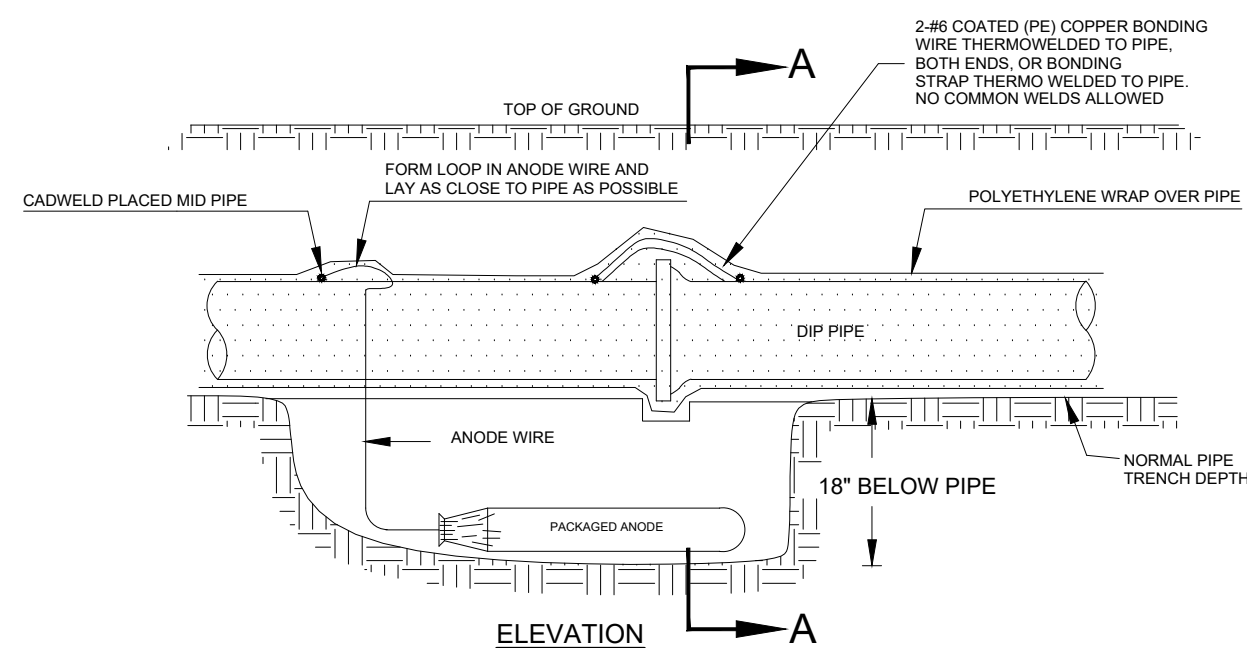
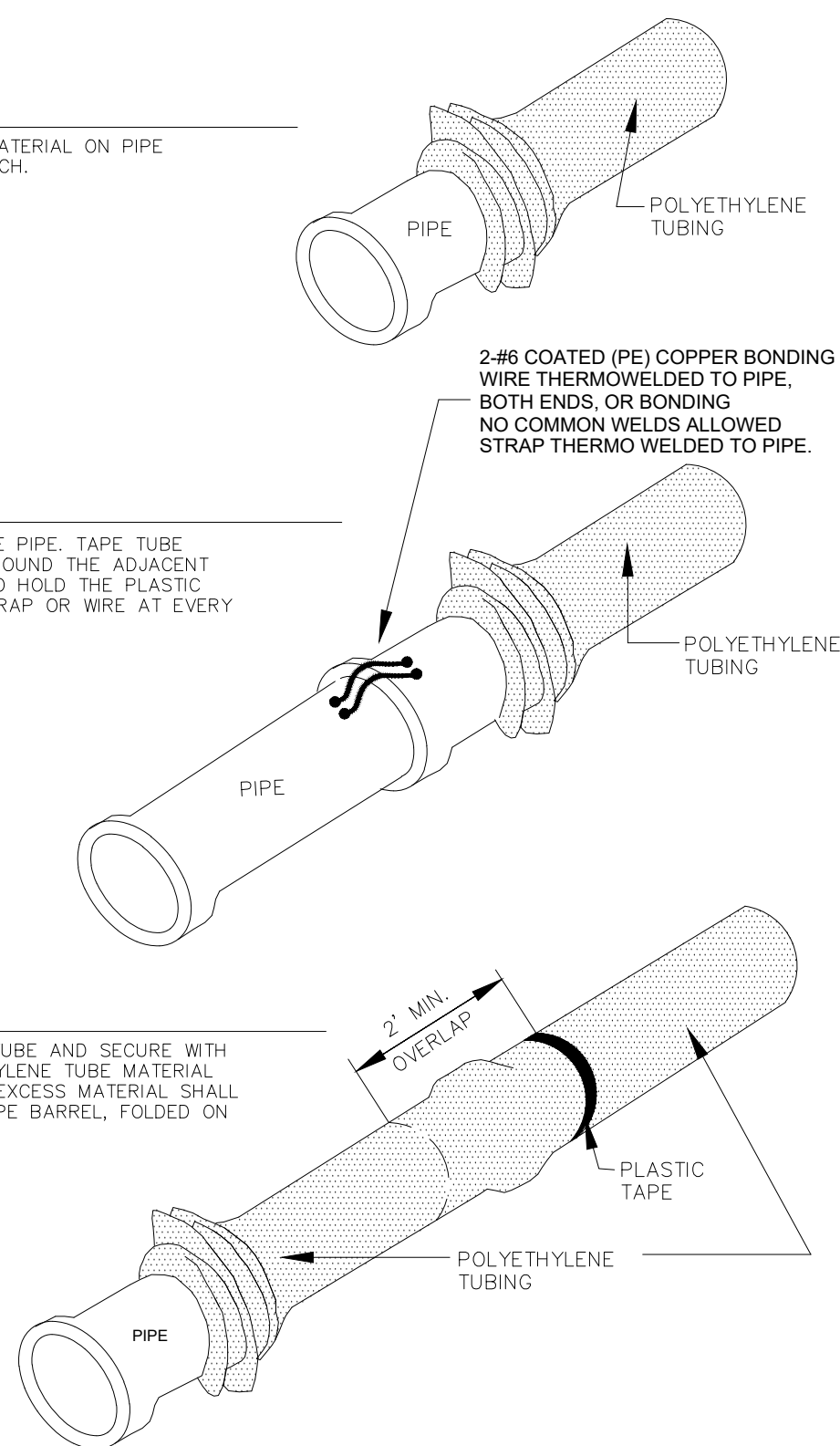
PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

STEP 2:

PULL TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO END AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE. INSTALL BONDING STRAP OR WIRE AT EVERY JOINT OF PIPE PRIOR TO WRAPPING.

STEP 3:

OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.

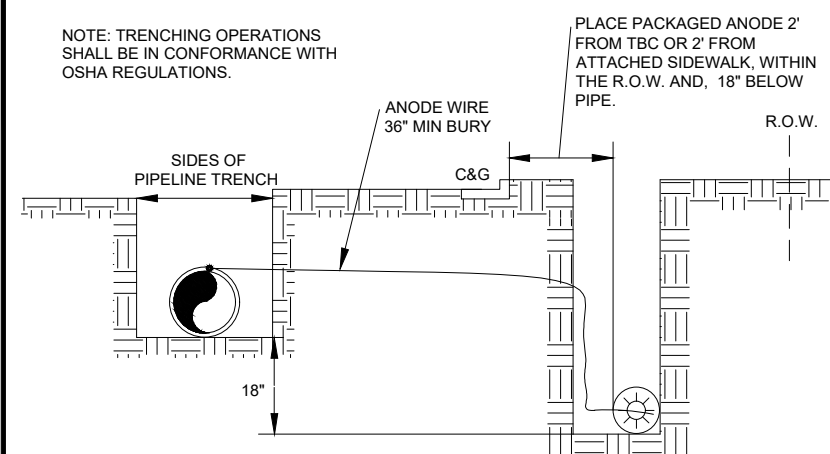


### Anode Design

For use with DIP in conjunction with poly-wrap sleeves and piping in 1000 ohm-cm soil estimating a 5% holiday area.

Pipe Size Inches	Actual OD Inches	Anode Spacing Feet	Anode (see note 2)
4	4.8	763	17 lb
6	6.9	531	17 lb
8	9.05	405	17 lb
12	13.20	277	17 lb
16	16	210	32 lb
20	20	169	32 lb
24	24	142	48 lb
30	30	114	48 lb
36	36	95.7	48 lb
42	42	82.4	48 lb
48	48	72.1	48 lb
54	54	64.2	48 lb

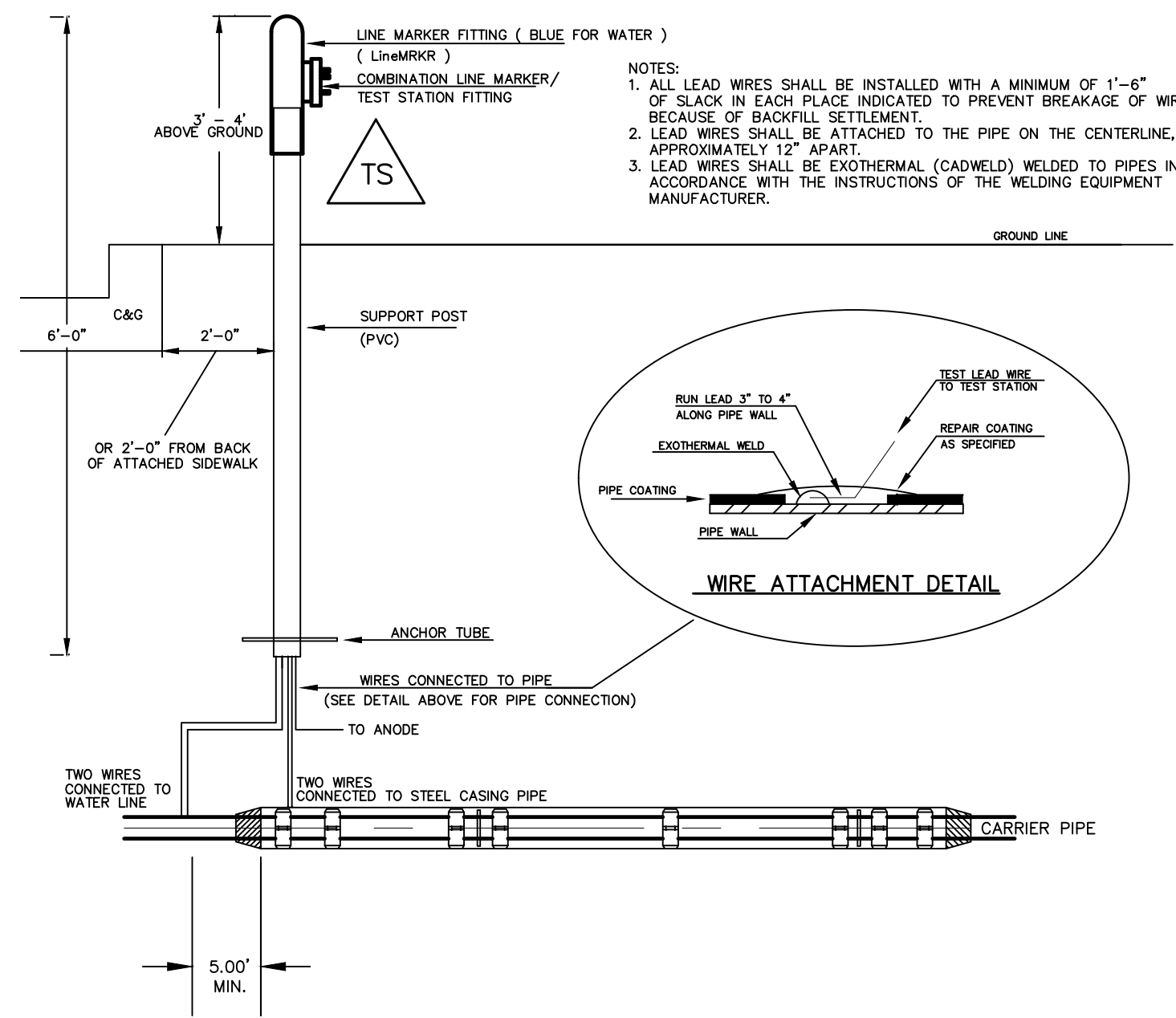
The distance from the point of the beginning to the first anode shall not exceed one half the recommended spacing.



SECTION A-A

## NOTES

1. Cadweld connection to be primed and coated carefully. Packed anode should be covered with fine soil containing no rocks or dirt clumps, tamped.
2. When anodes are required with metal fittings and appurtenances together with PVC pipe installations, the anodes shall be placed and attached to the metal fittings in same manner as shown on this drawing.  
9 lb anodes can be used on metal fittings when using PVC pipe.
3. Packaged anode to be wetted and covered with soil prior to backfilling.



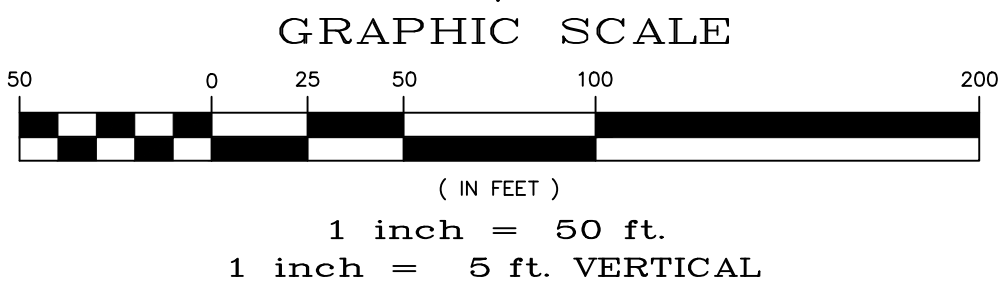
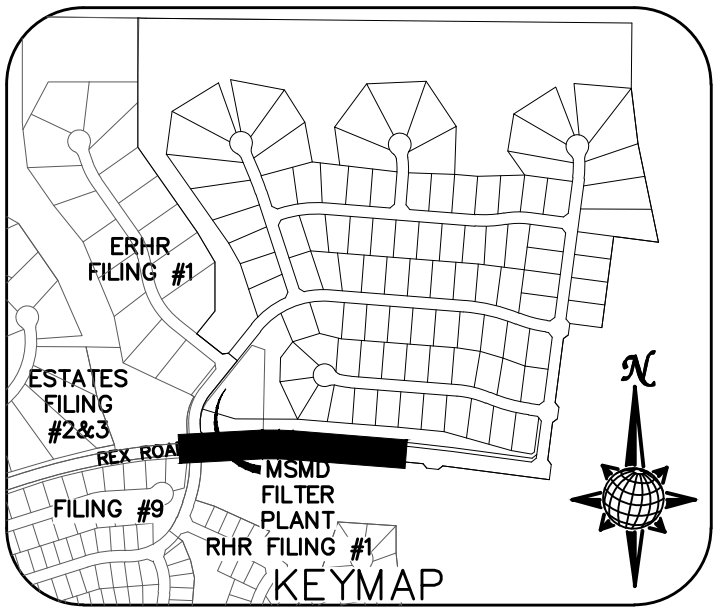
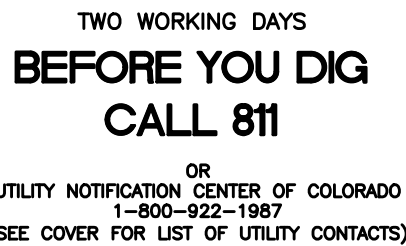
TYPICAL DETAIL FOR TEST STATION  
WITH STEEL SLEEVE INSTALLATION

NOTES:

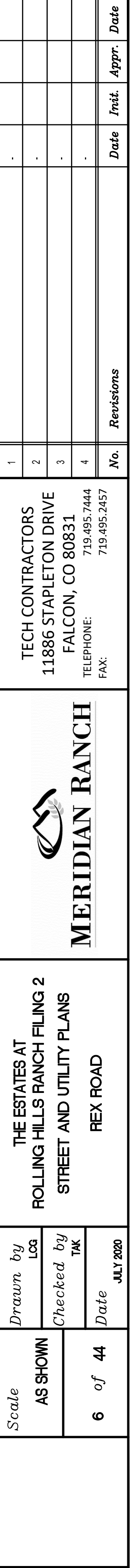
- 1.) Lowerings to be cathodically protected under the direction of the MSMD Inspector, per standards.  
(For anode size see detail above.)
- 2.) Example can vary due to site conditions and MSMD Inspector's direction's.
- 3.) Reference Colorado Springs Utilities Standard Detail Drawing No. A 8-6 - Steel Sleeve Installation.

Scale AS SHOWN	Drawn by LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS  DETAIL SHEET	 <b>MERIDIAN RANCH</b>	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1					
					2					
	Checked by TAK				3					
					4					
	5 of 44				Date JULY 2020				No.	Revisions

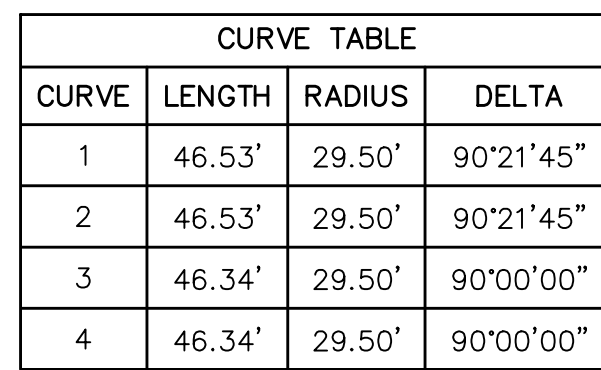
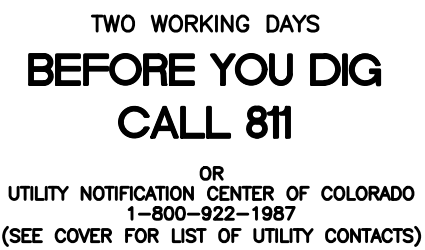




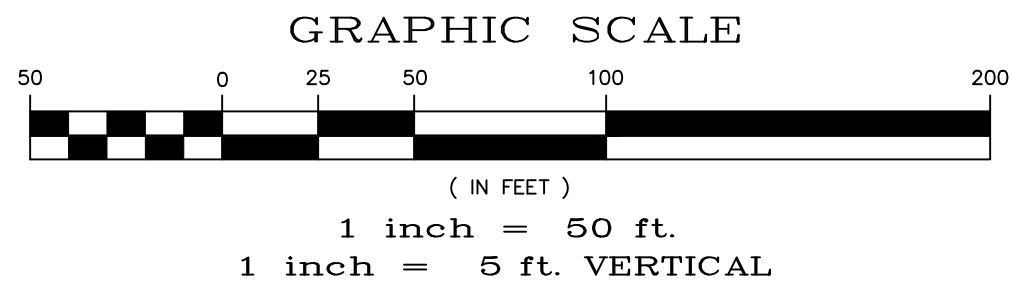
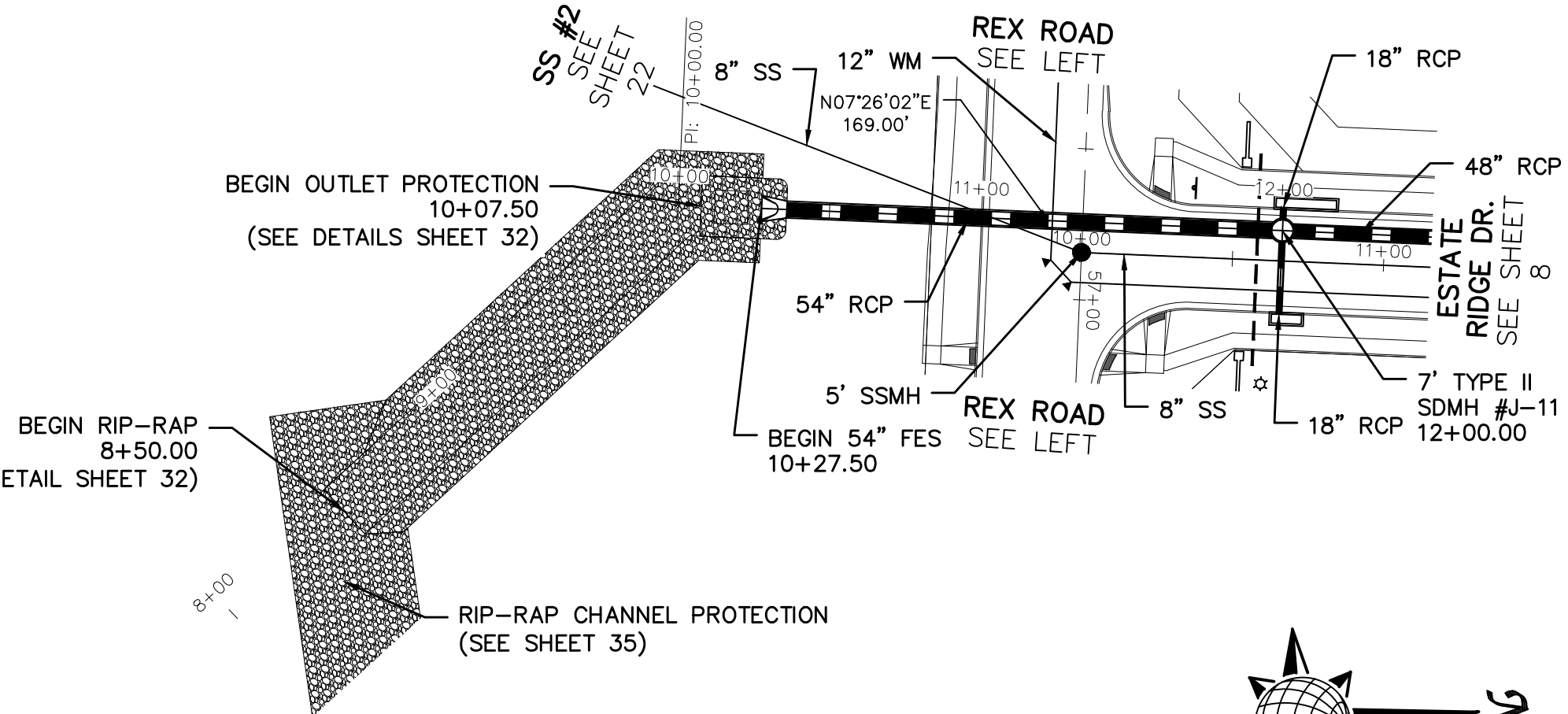
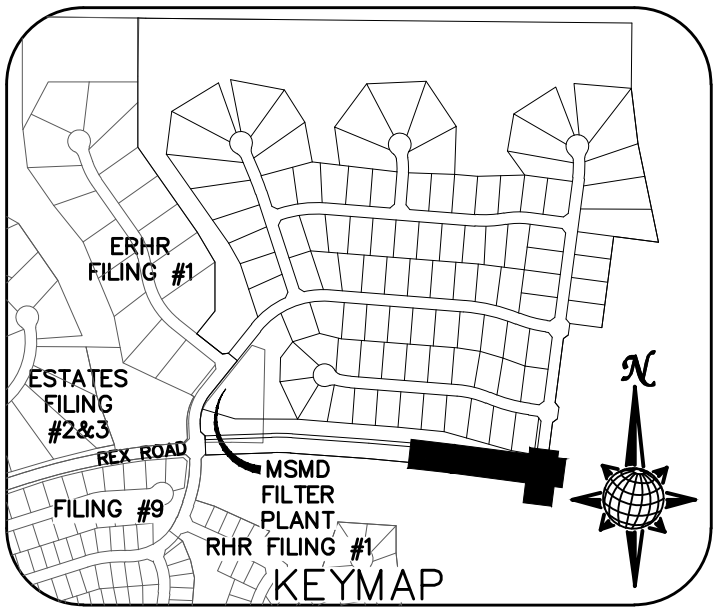
TEMP. MINOR ARTERIAL  
80' WIDE RIGHT OF WAY, 31' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



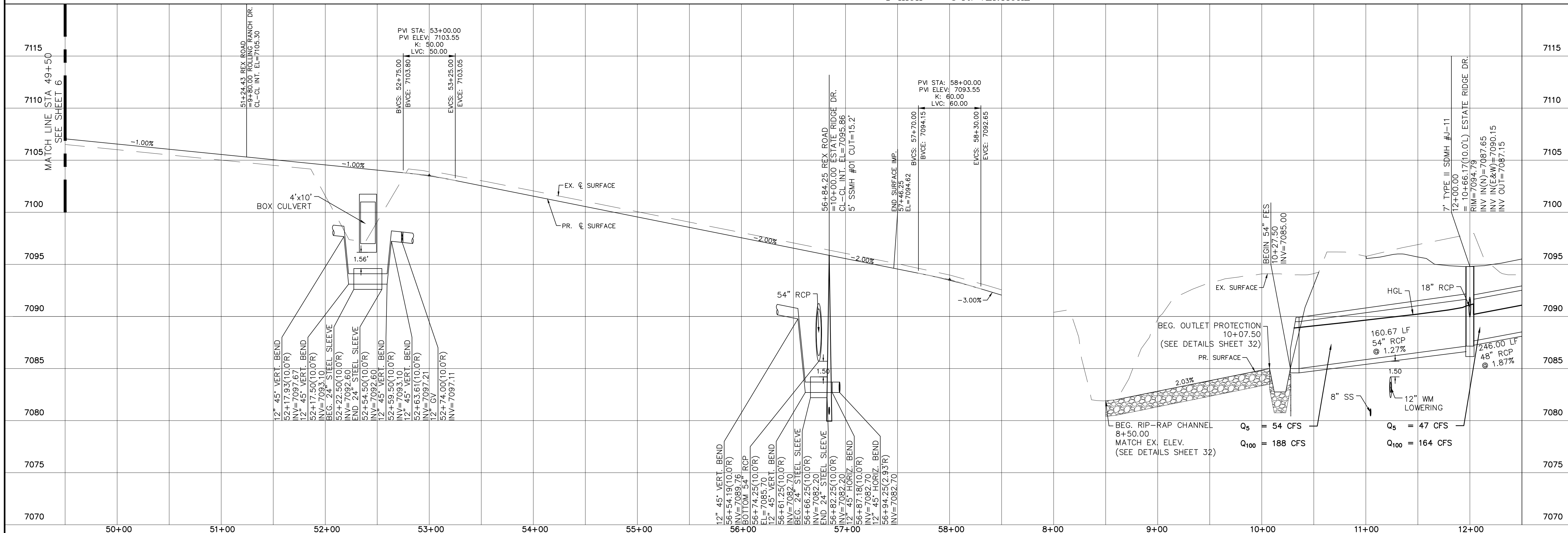





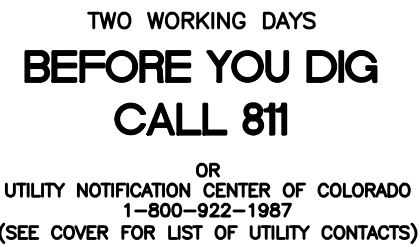
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



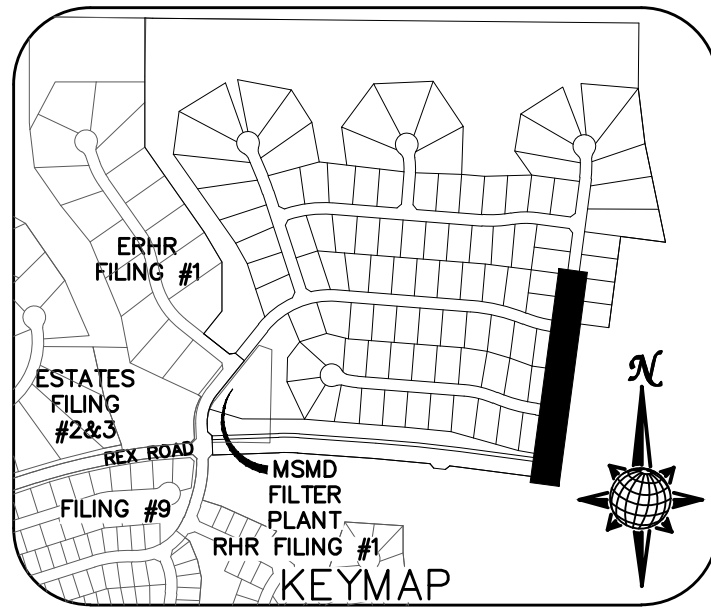
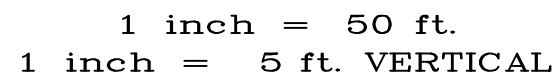
# STORM #1



Scale AS SHOWN	7 of 44	Date JULY 2020	Drawn by LCS Checked by TAK Date	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS REX ROAD + STORM #1	 <b>MERIDIAN RANCH</b>	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1				
							2				
							3				
							4				
							No.	Revisions	Date	Invt.	Appr.



ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



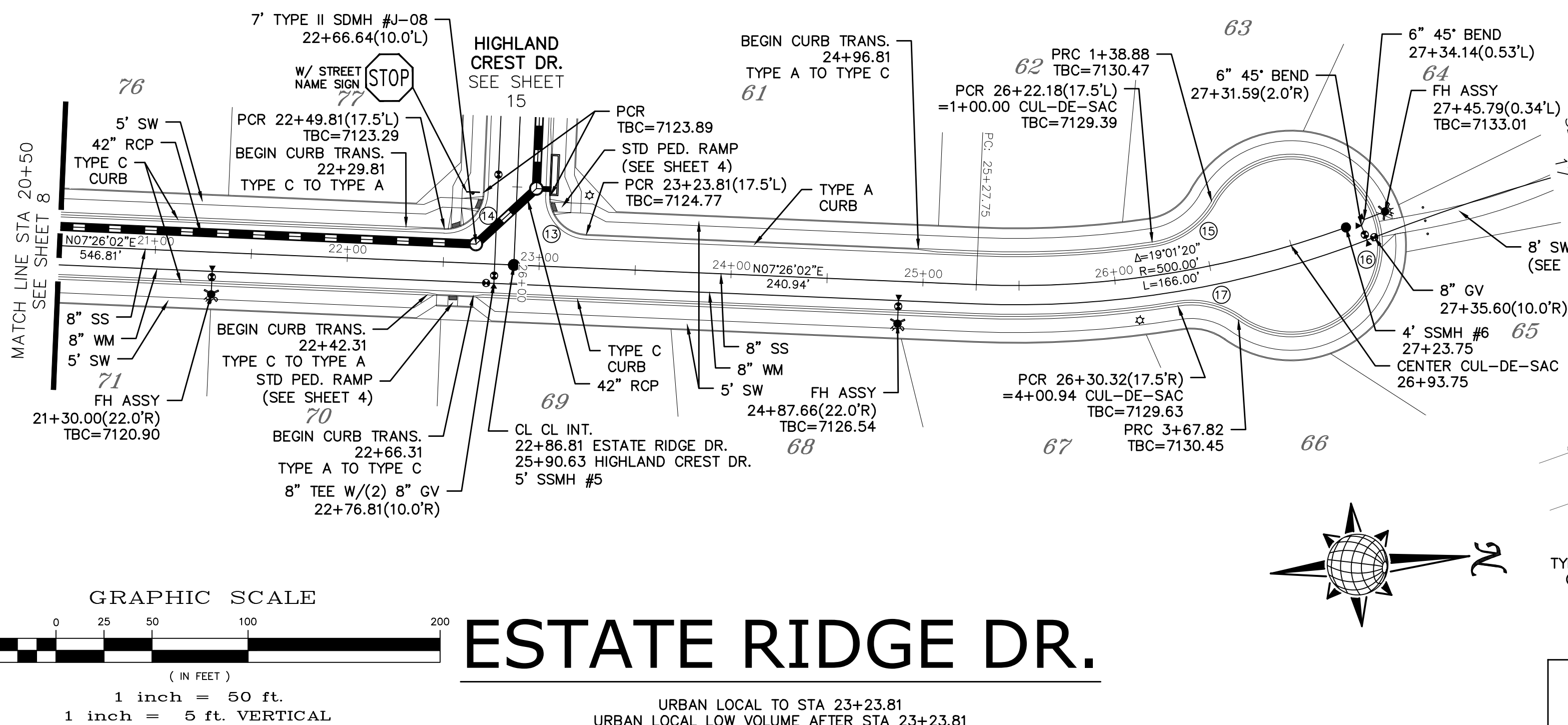
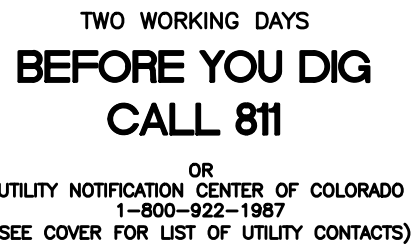
THE ESTATES AT  
DOLLING HILLS RANCH FILING 2  
STREET AND UTILITY PLANS  
ESTATE RIDGE DR.

Scale	Drawn by LCG
AS SHOWN	Checked by TAK
8 of 44	Date JUN 19 2020

1	-			
2	-			
3	-			
4	-			
<b>No.</b>	<b>Revisions</b>	<b>Date</b>	<b>Appr.</b>	<b>Date</b>

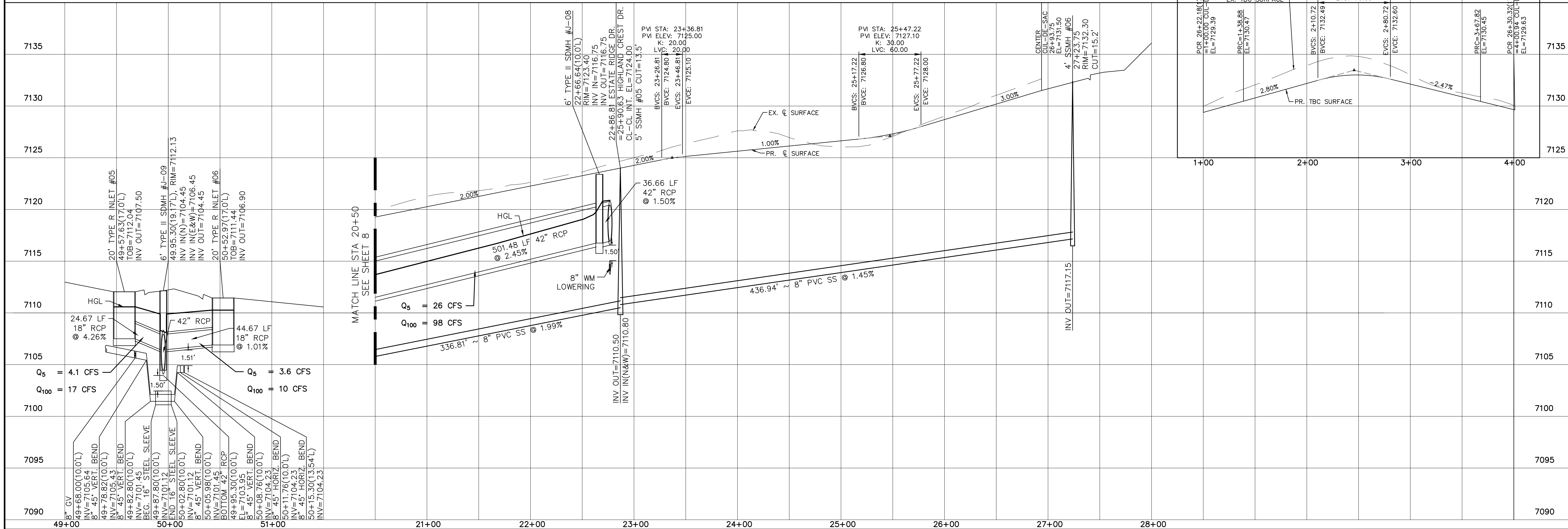
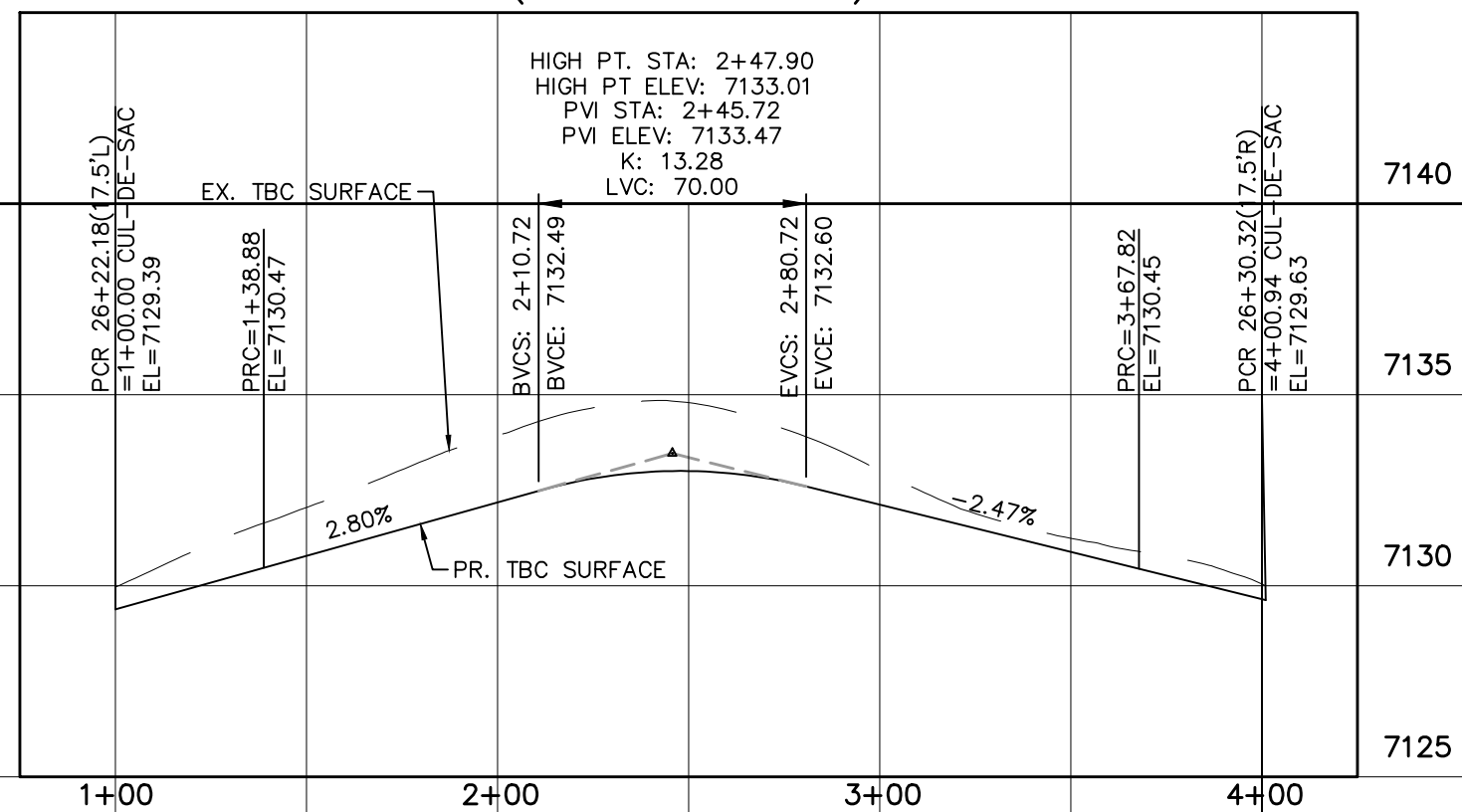
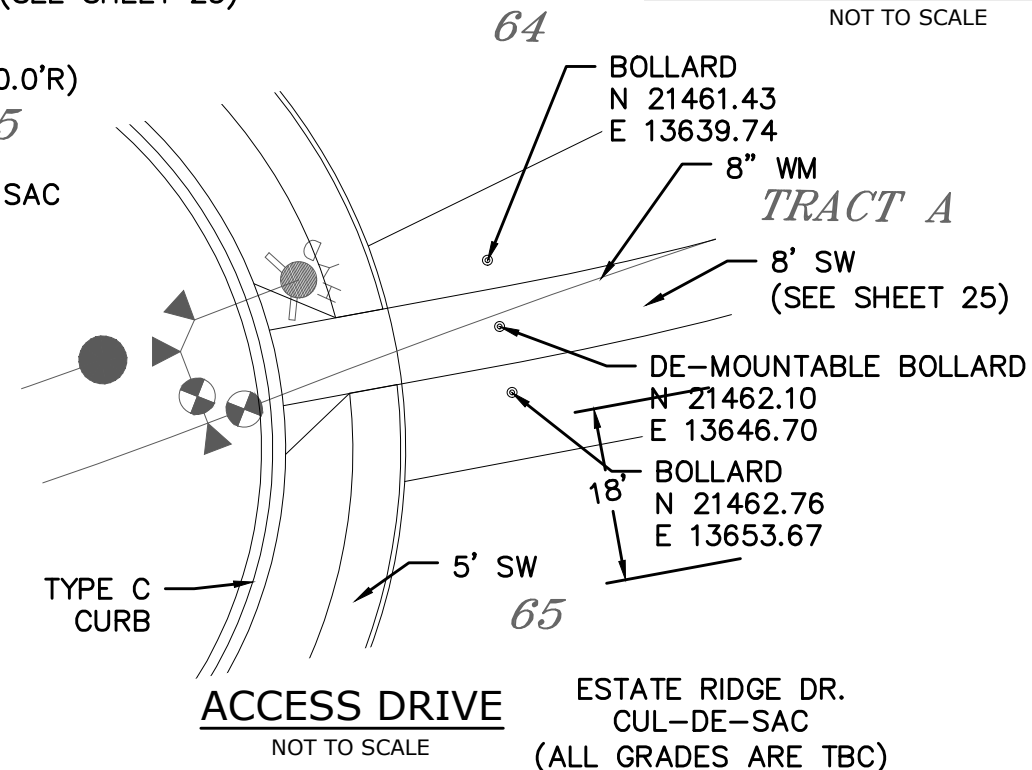
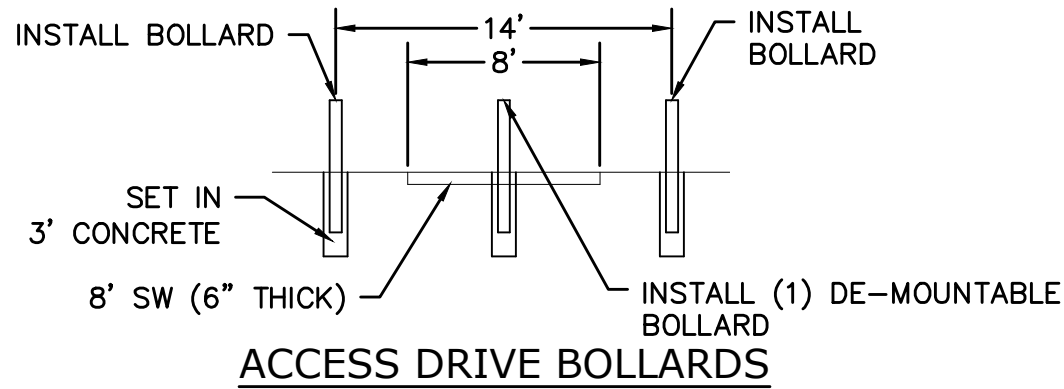
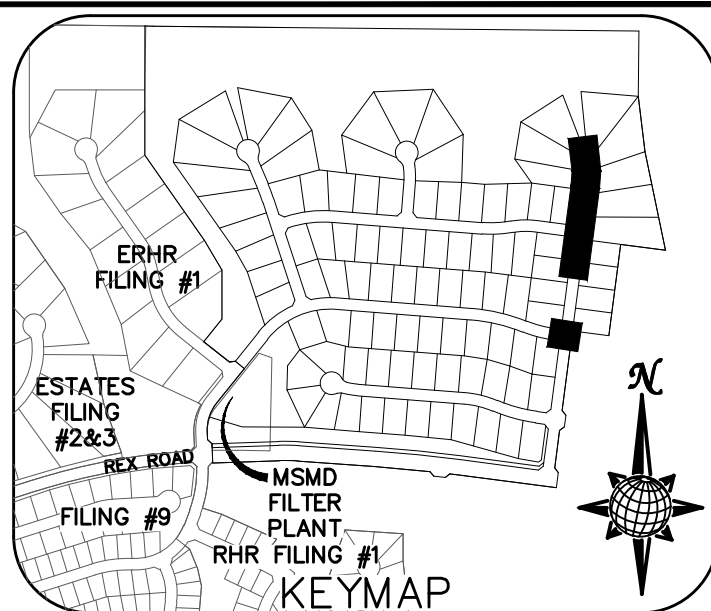
**TECH CONTRACTORS**  
**11886 STAPLETON DRIVE**  
**FALCON, CO 80831**  
**TELEPHONE: 719.495.7444**  
**FAX: 719.495.2457**



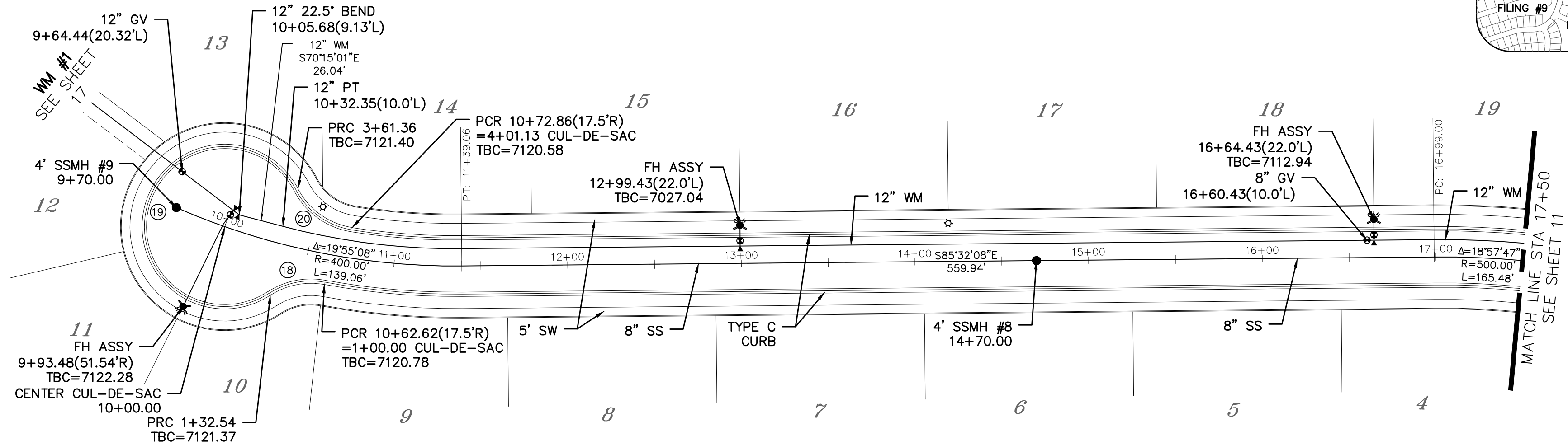
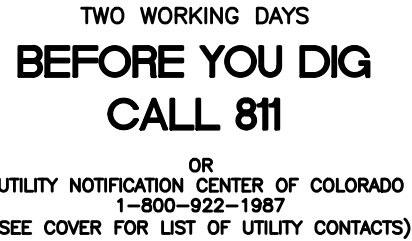


CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
13	30.63'	19.50'	90°00'00"
14	30.63'	19.50'	90°00'00"
15	38.88'	42.50'	52°25'17"
16	228.93'	47.50'	276°08'49"
17	33.13'	42.50'	44°39'30"

ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



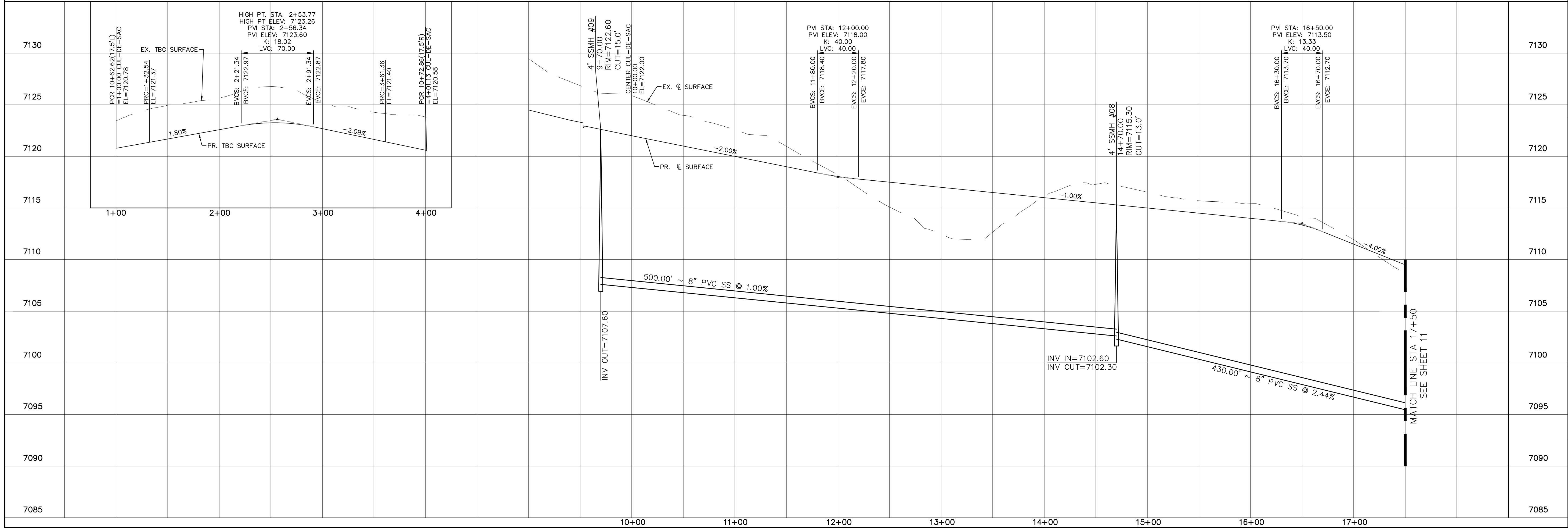
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	<div>Checked by</div> <div>TAC</div>				2	-		
	<div>Date</div> <div>JULY 2020</div>				3	-		
	<div>9 of 44</div>				4	-		
						No.	Revisions	Date



CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
18	32.54'	42.50'	43°51'42"
19	228.82'	47.50'	276°00'52"
20	39.77'	42.50'	53°37'12"

CRESCENT CREEK DR.

URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



Revisions	Date				Init.	Appr.	Date
				*			
				*			
				*			
				*			

**TECH CONTRACTORS**  
**11886 STAPLETON DRIVE**  
**FALCON, CO 80831**  
**TELEPHONE: 719.495.7444**  
**FAX: 719.495.2457**



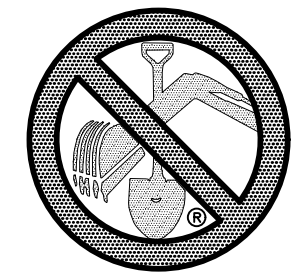
# MERIDIAN RANCH

THE ESTATES AT  
LING HILLS RANCH FILING 2  
REET AND UTILITY PLANS  
CRESCENT CREEK DR.

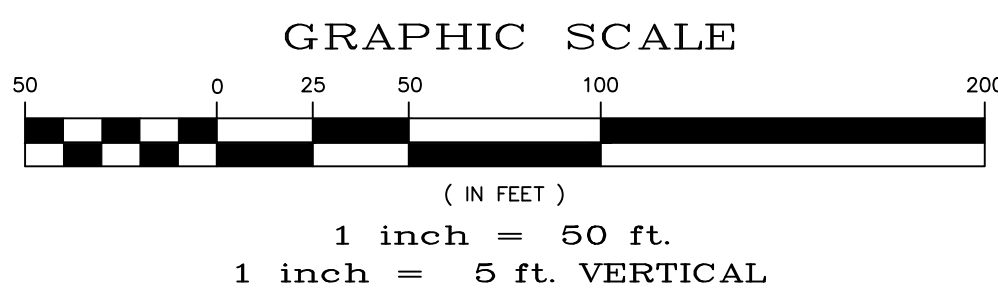
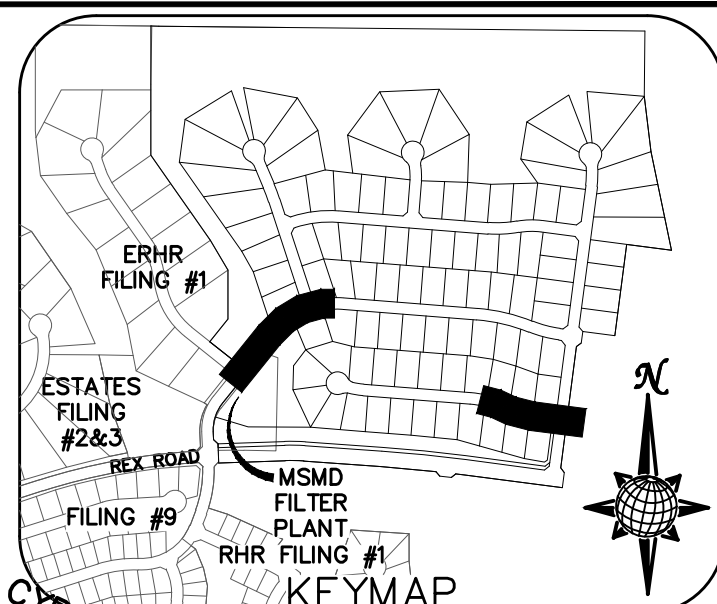
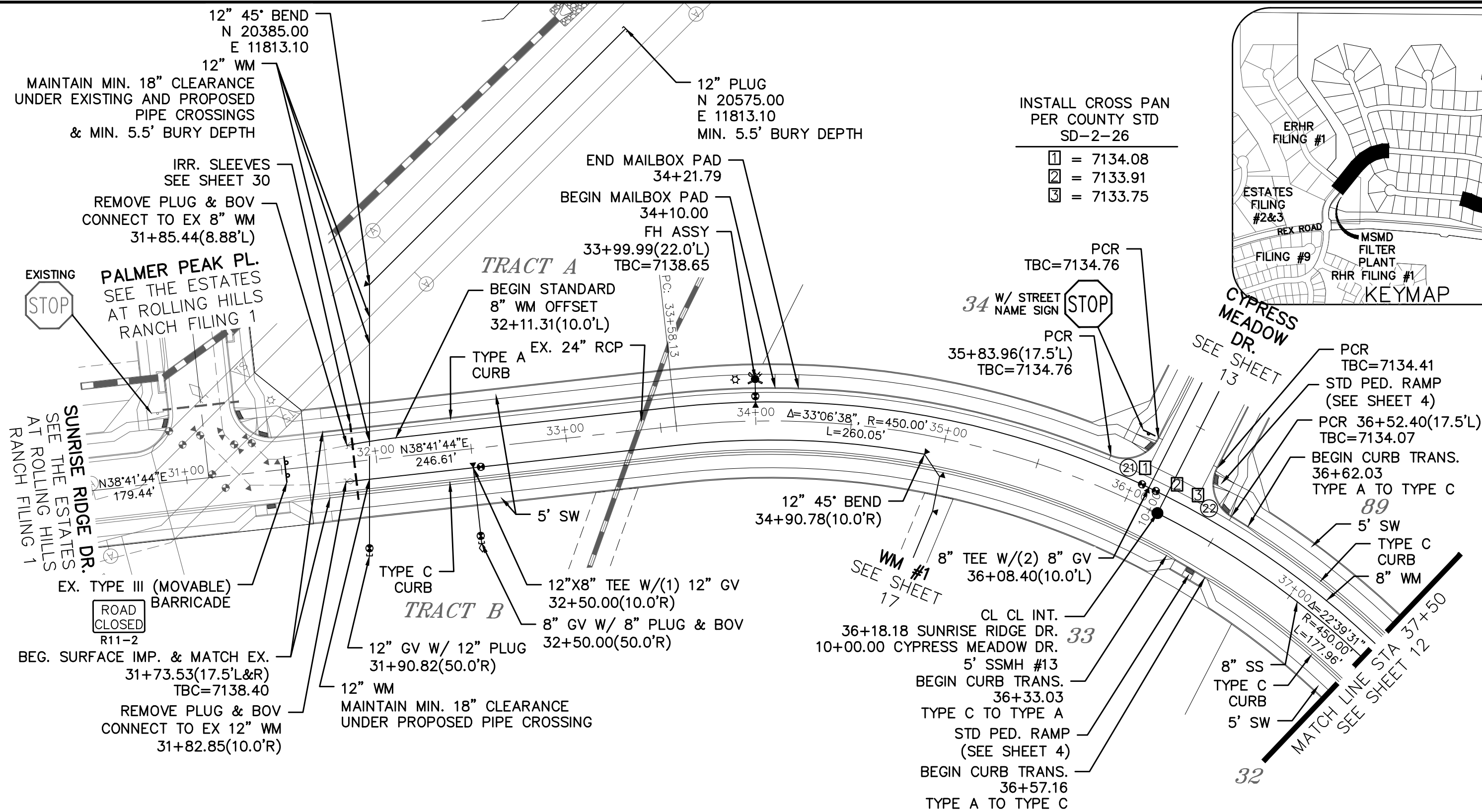
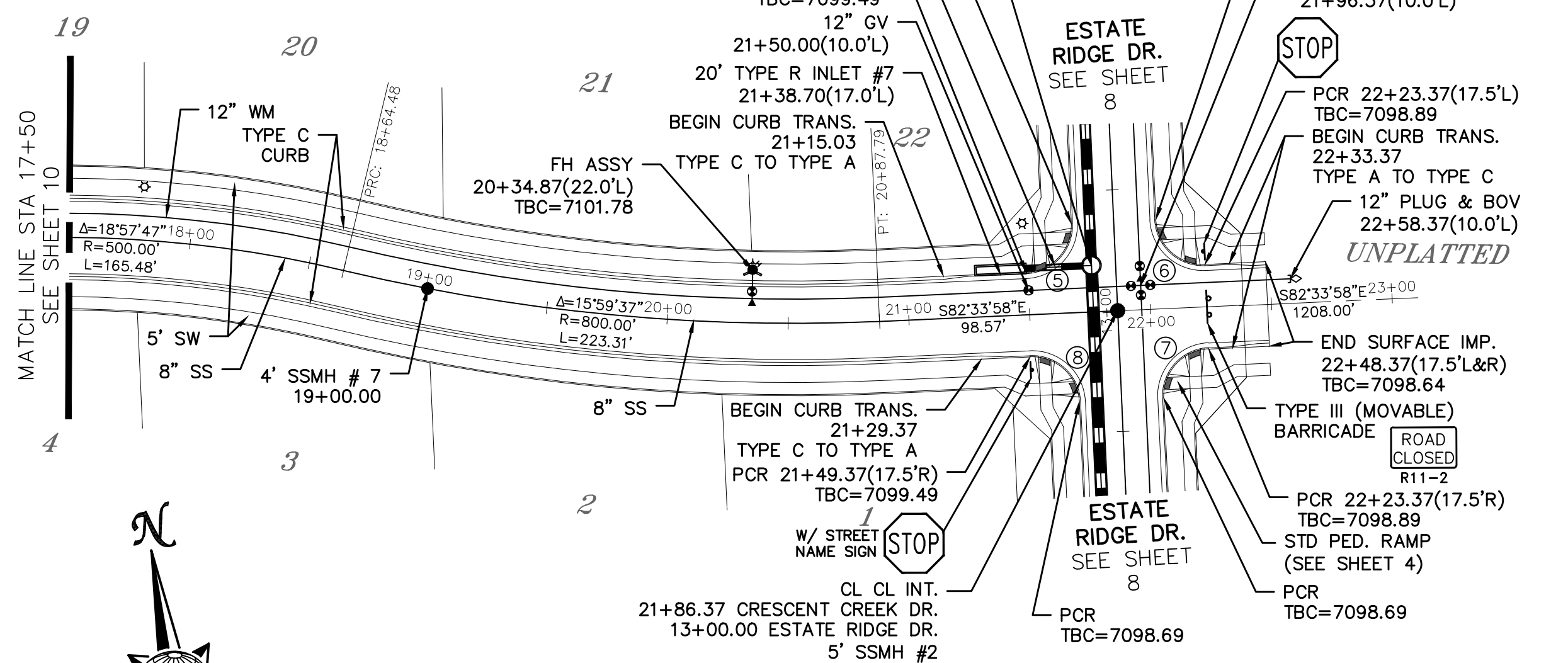
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	Checked by TAK
	Date JULY 2020



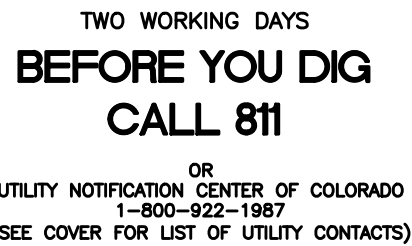
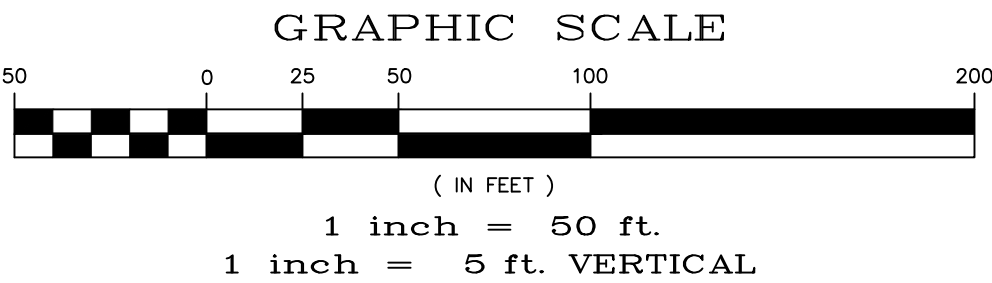
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
5	30.63'	19.50'	90°00'00"
6	30.63'	19.50'	90°00'00"
7	30.63'	19.50'	90°00'00"
8	30.63'	19.50'	90°00'00"
21	29.15'	19.50'	85°38'34"
22	29.15'	19.50'	85°38'34"



ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)

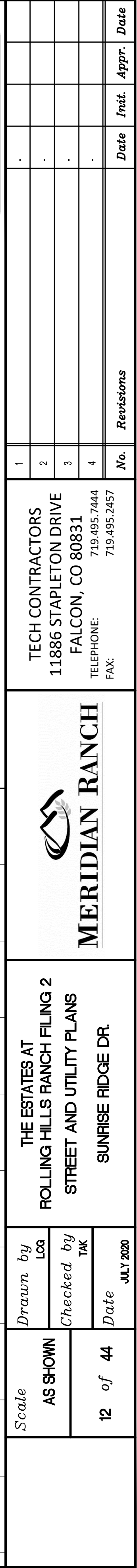


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AS SHOWN		LOG		JAK		JULY 2020	
11 of 44							
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7100	7105	7110	7115	7120	7125	7130	7135
7095	7100	7105	7110	7115	7120	7125	7130
7090	7100	7105	7110	7115	7120	7125	7130
7085	7100	7105	7110	7115	7120	7125	7130
7080	7100	7105	7110	7115	7120	7125	7130
7075	7100	7105	7110	7115	7120	7125	7130
7070	7100	7105	7110	7115	7120	7125	7130

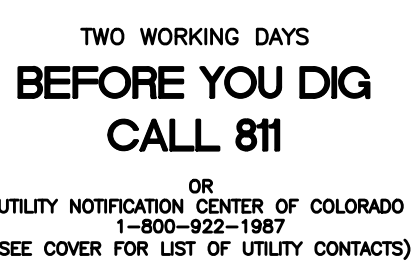
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# SUNRISE RIDGE DR.

URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



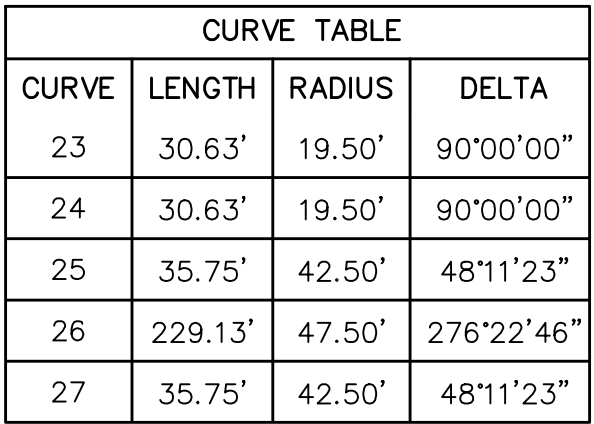




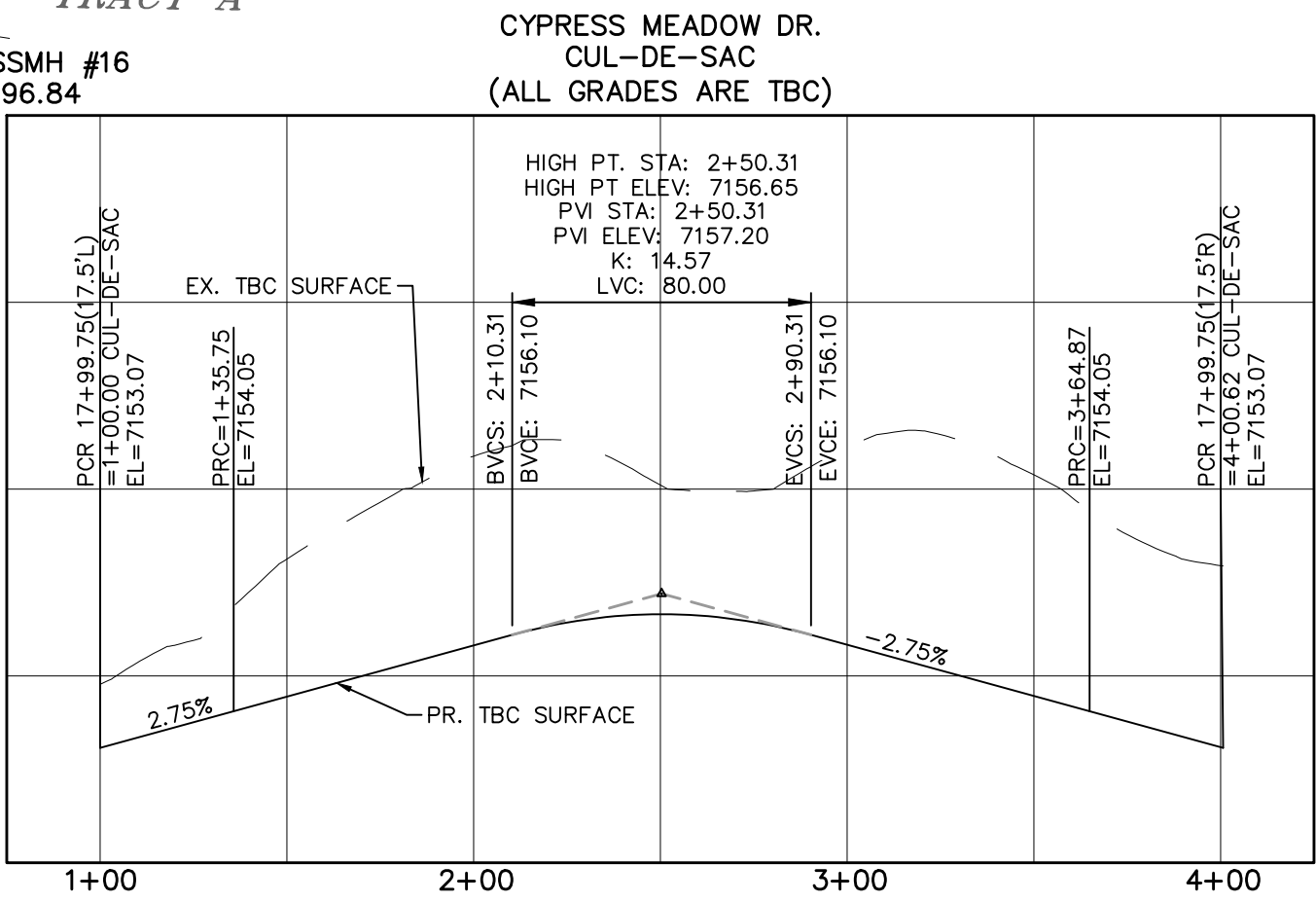
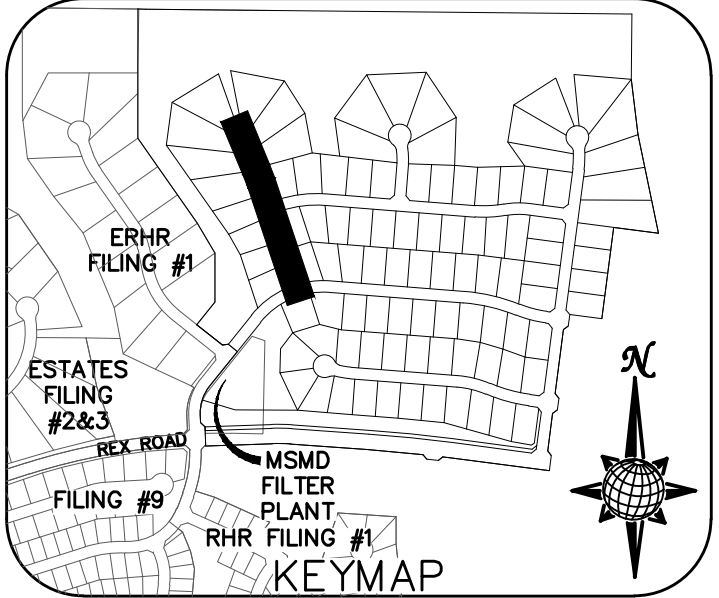
INSTALL CROSS PAN  
PER COUNTY STD  
SD-2-26

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① = 7134.08  
② = 7133.91  
③ = 7133.75



ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



URBAN LOCAL TO STA 14+87.00  
URBAN LOCAL LOW VOLUME AFTER STA 14+87.00  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



THE ESTATES AT  
ROLLING HILLS RANCH FILING 2  
STREET AND UTILITY PLANS  
CYPRESS MEADOW DR.

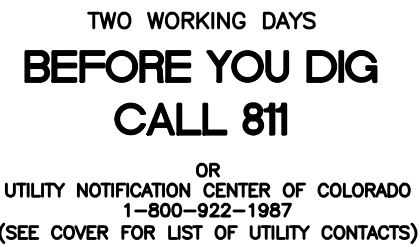
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Scale

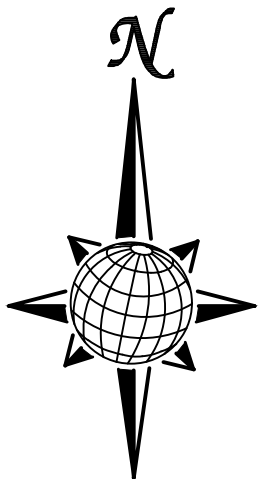
AS SHOWING

13 of 44

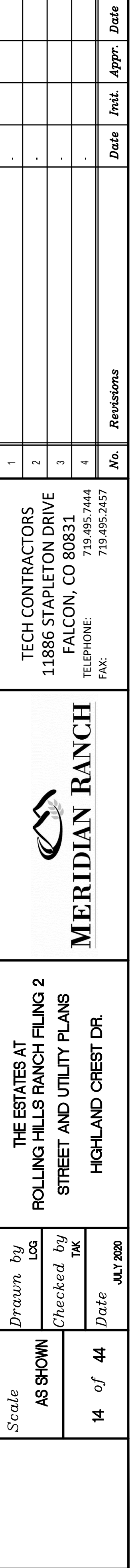
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ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)







TWO WORKING DAYS

BEFORE YOU DIG

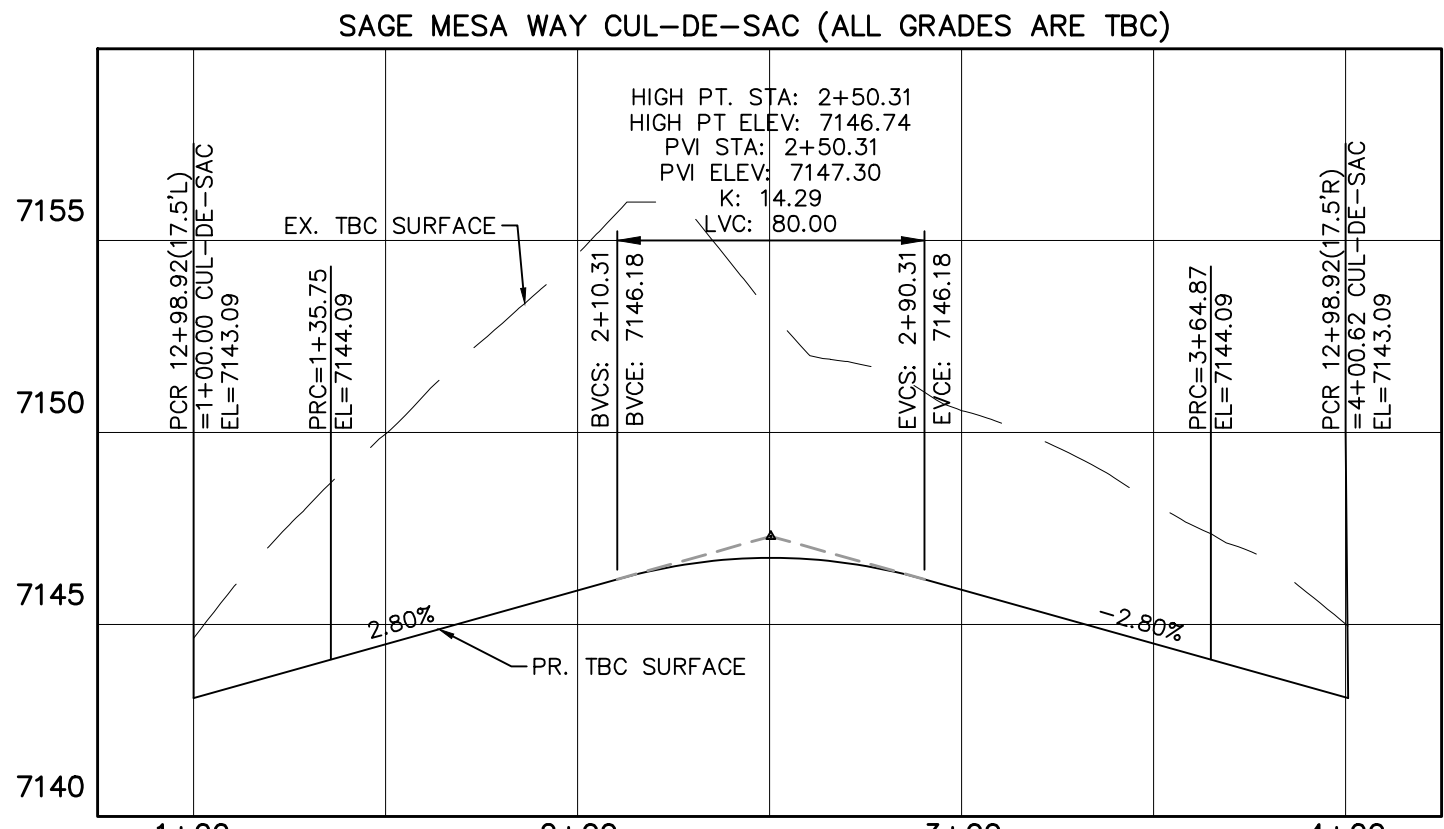
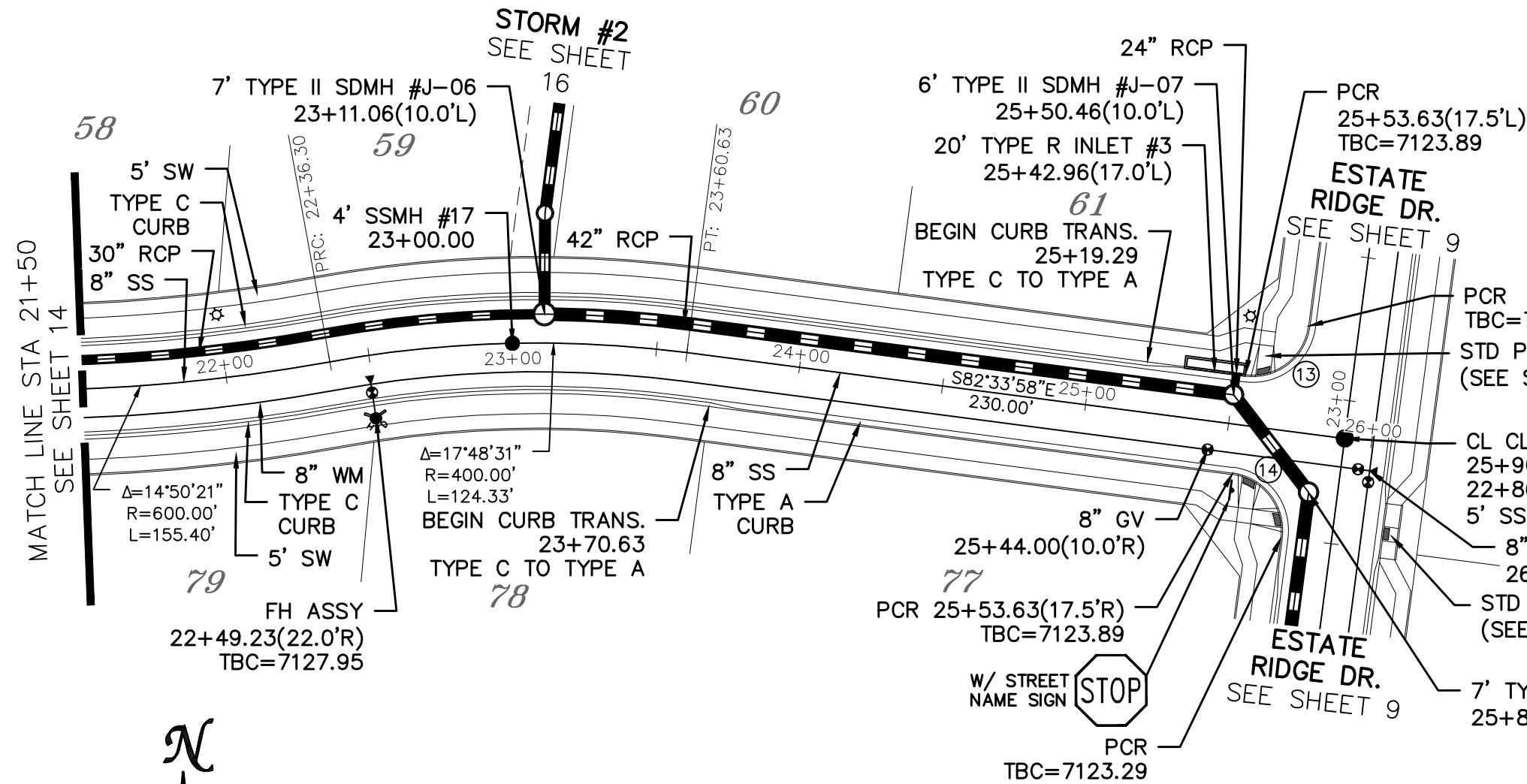
CALL 811

OR

UTILITY NOTIFICATION CENTER OF COLORADO

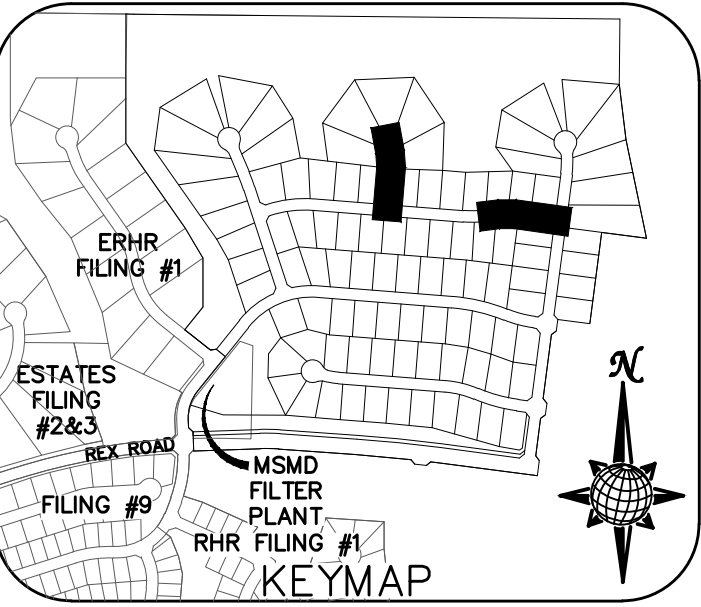
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(SEE COVER FOR LIST OF UTILITY CONTACTS)

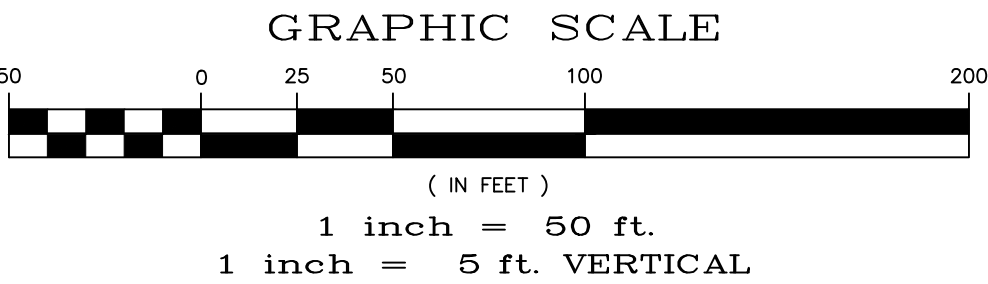


CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
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14	30.63'	19.50'	90°00'00"
28	30.63'	19.50'	90°00'00"
29	30.63'	19.50'	90°00'00"
30	35.75'	42.50'	48°11'23"
31	229.13'	47.50'	276°22'46"
32	35.75'	42.50'	48°11'23"

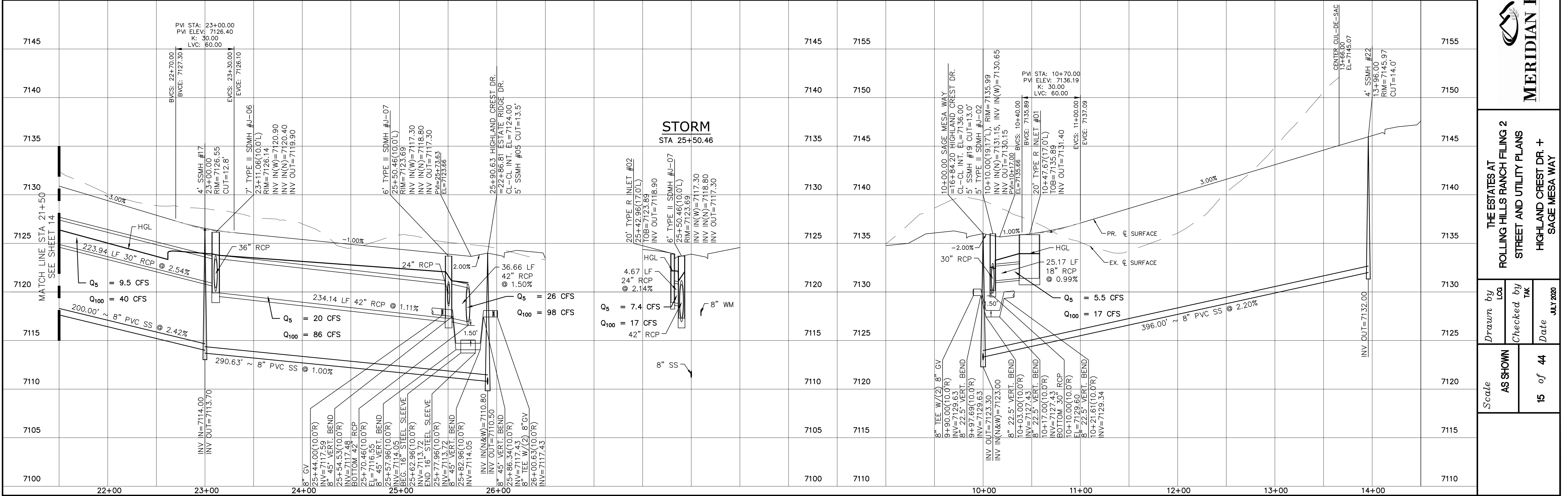
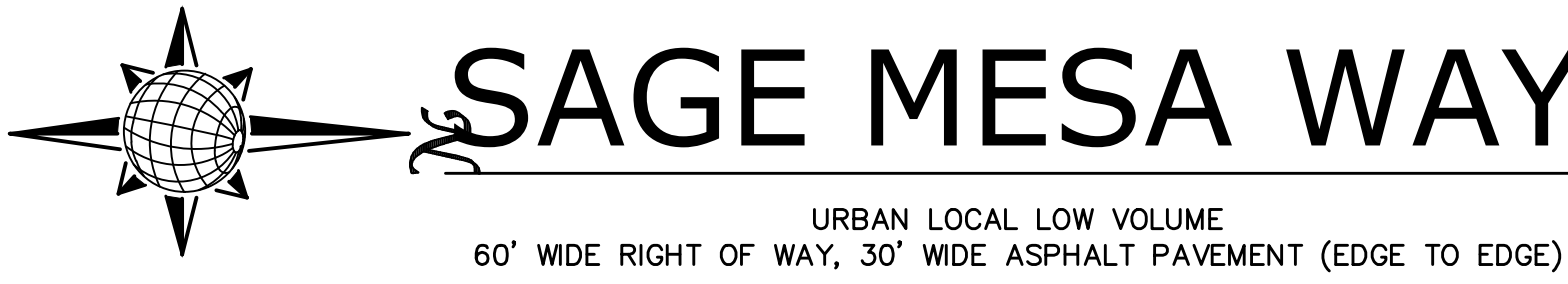
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



# HIGHLAND CREST DR.



# SAGE MESA WAY



1

2

3

4

No.

Date

Init.

Appr.


TECH CONTRACTORS

11886 STAPLETON DRIVE

FALCON, CO 80831

TELEPHONE 719.495.7444

FAX 719.495.2457



MERIDIAN RANCH

THE ESTATES AT

ROLLING HILLS RANCH FILING 2

STREET AND UTILITY PLANS

HIGHLAND CREST DR. +

SAGE MESA WAY

Drawn by

Loc

Checked by

TAK

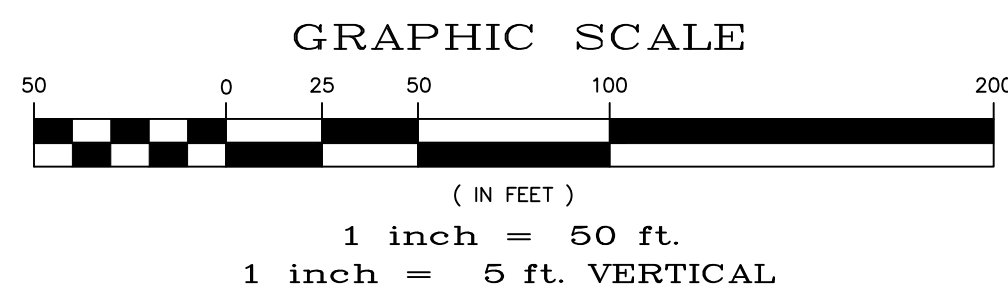
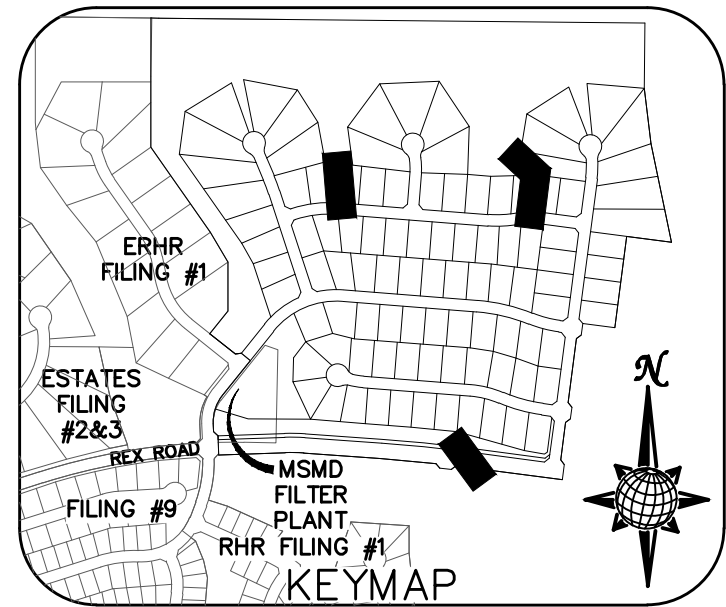
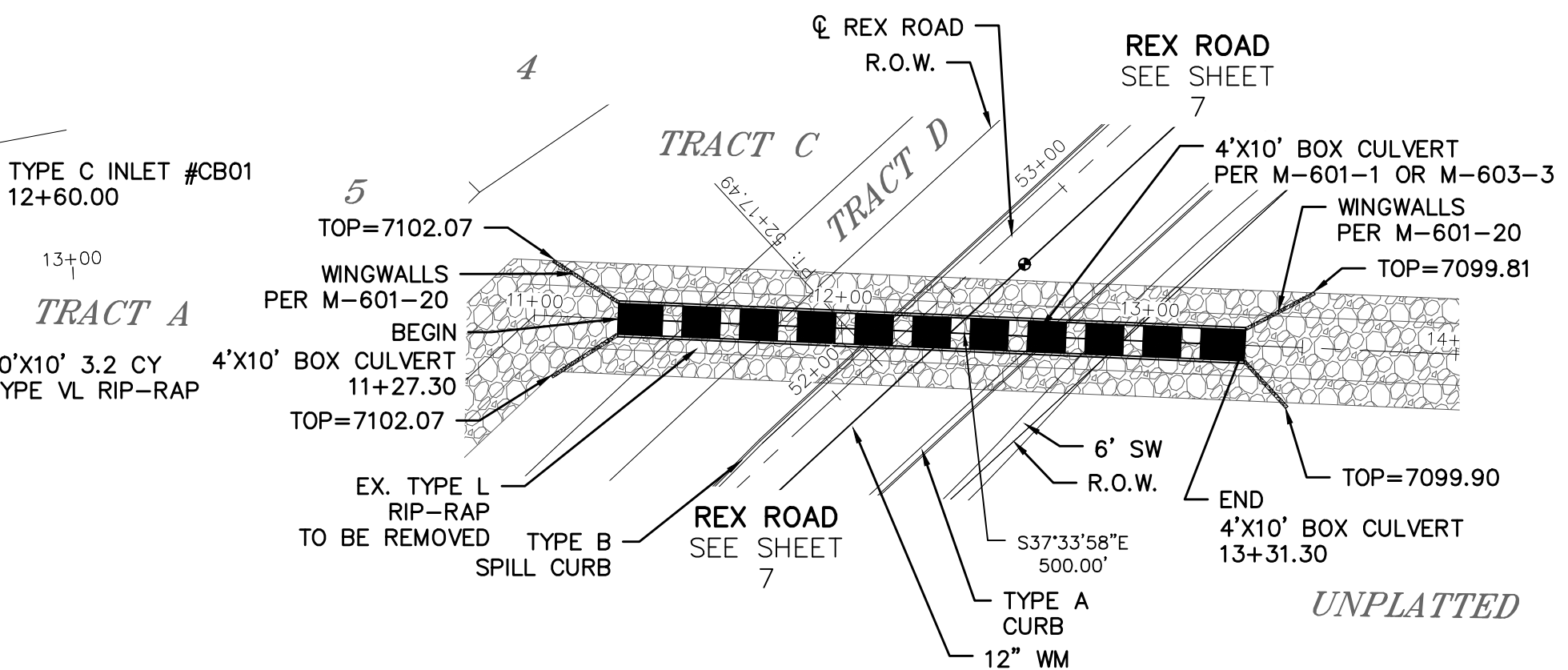
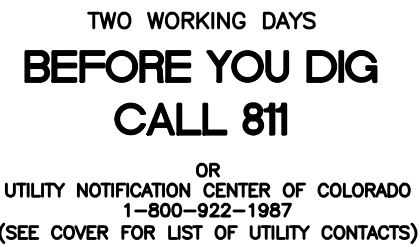
Date

JULY 2020

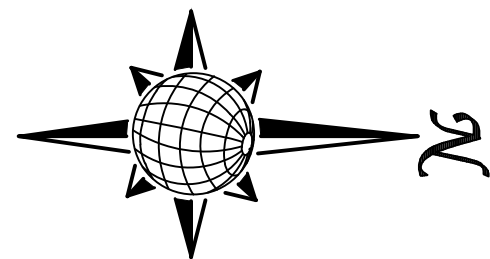
Scale

AS SHOWN

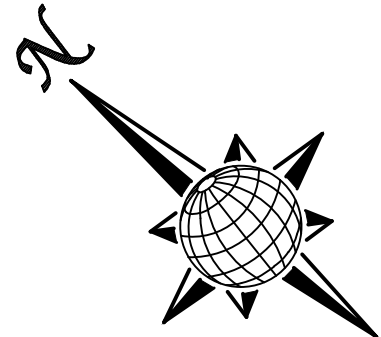
15 of 44




# STORM #3



# STORM #4

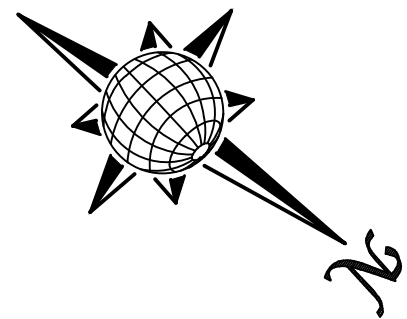
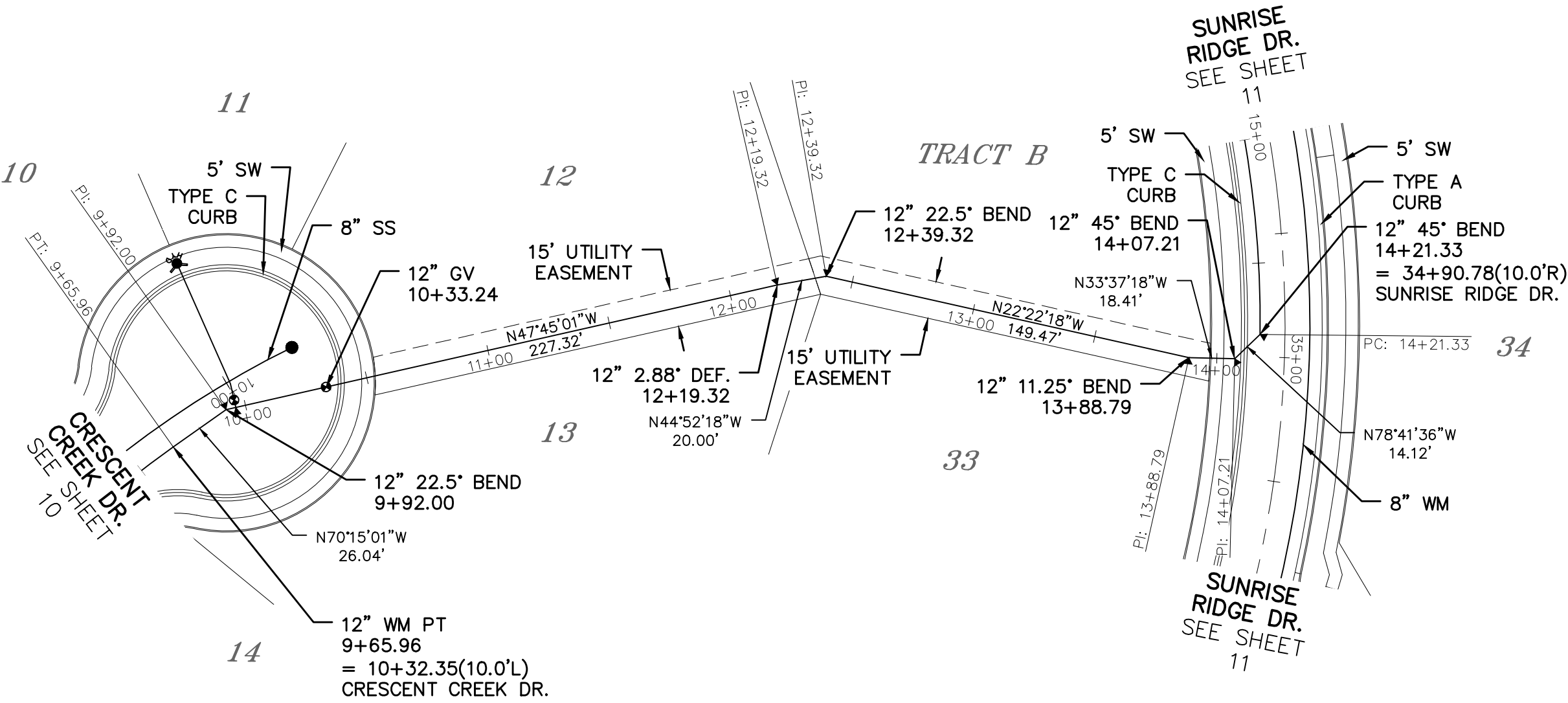
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Scale AS SHOWN	Drawn by LGS Checked by TAK Date JULY 2020	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS STORM #2, STORM #3 + STORM #4	 <b>MERIDIAN RANCH</b>	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1			
					2			
					3			
					4			
16 of 44	No.	Revisions	Date	Instr.	Appr.	Date		

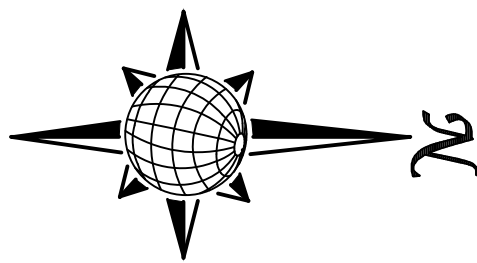
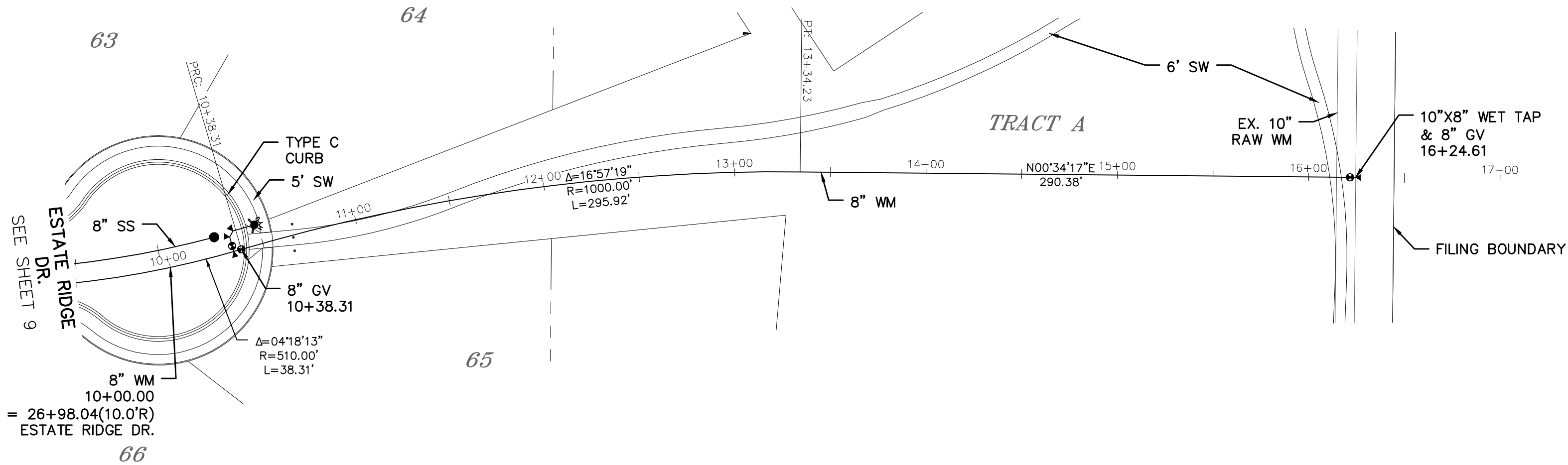
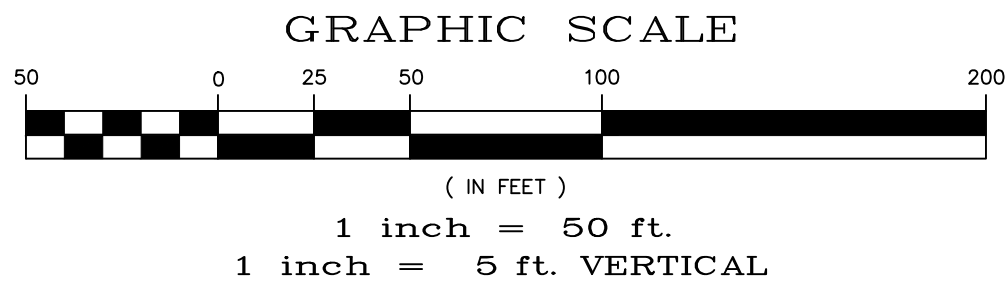




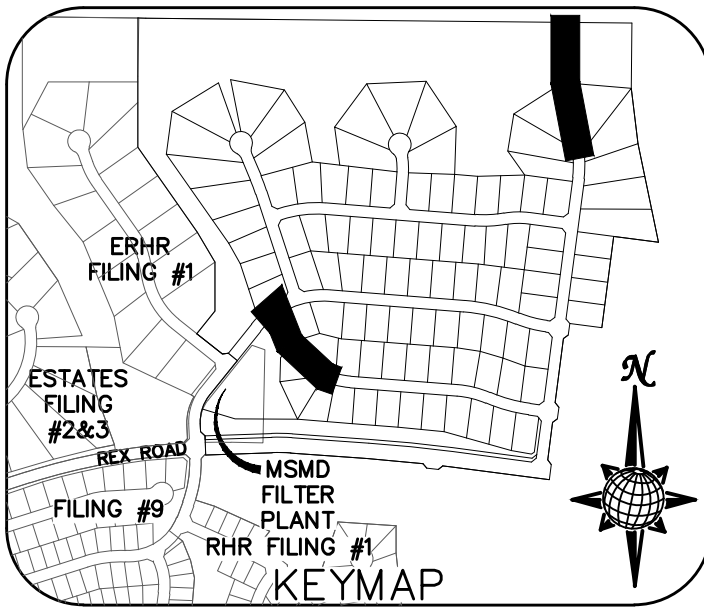
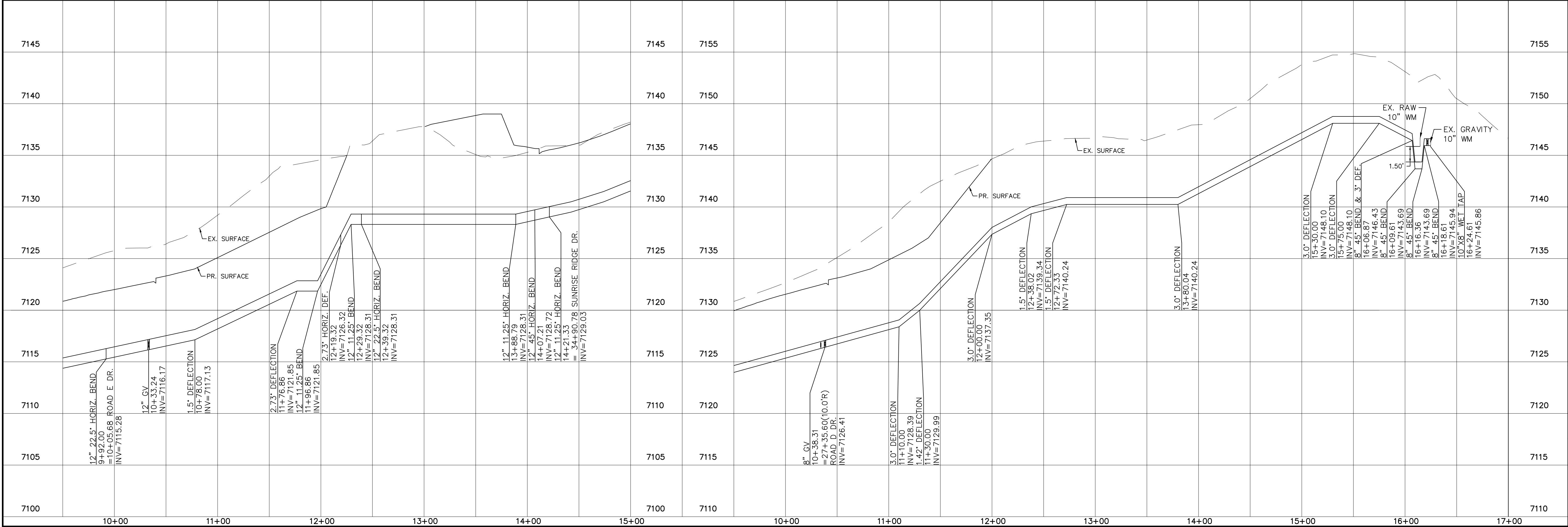
TWO WORKING DAYS  
**BEFORE YOU DIG  
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OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)



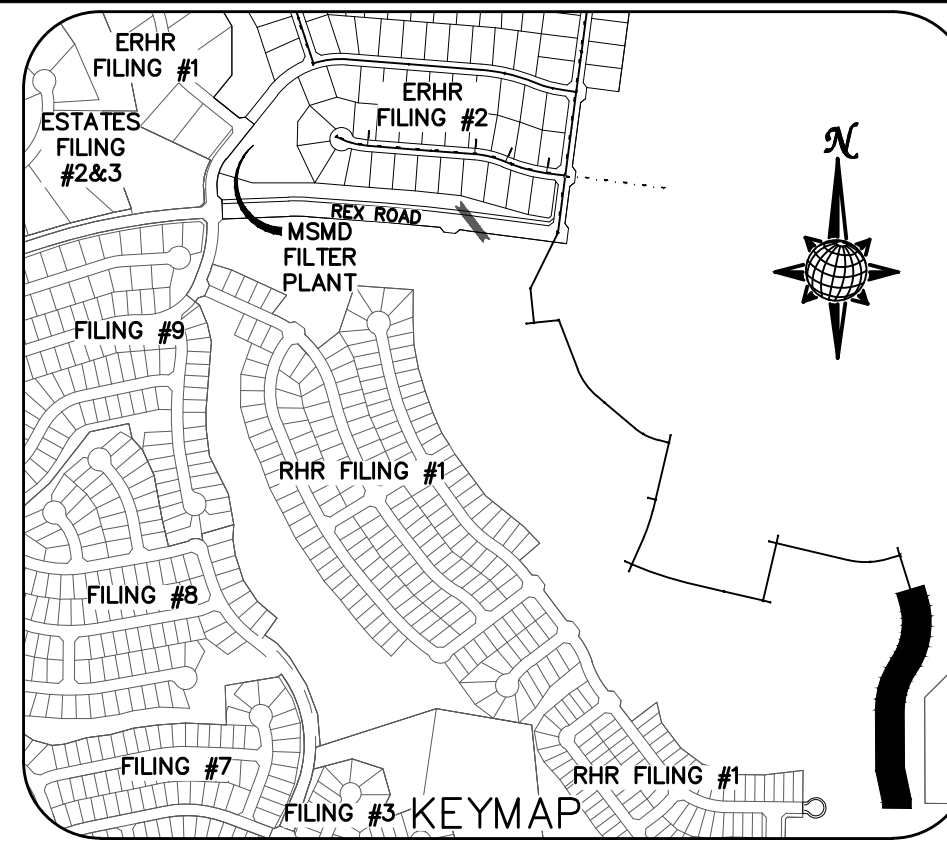
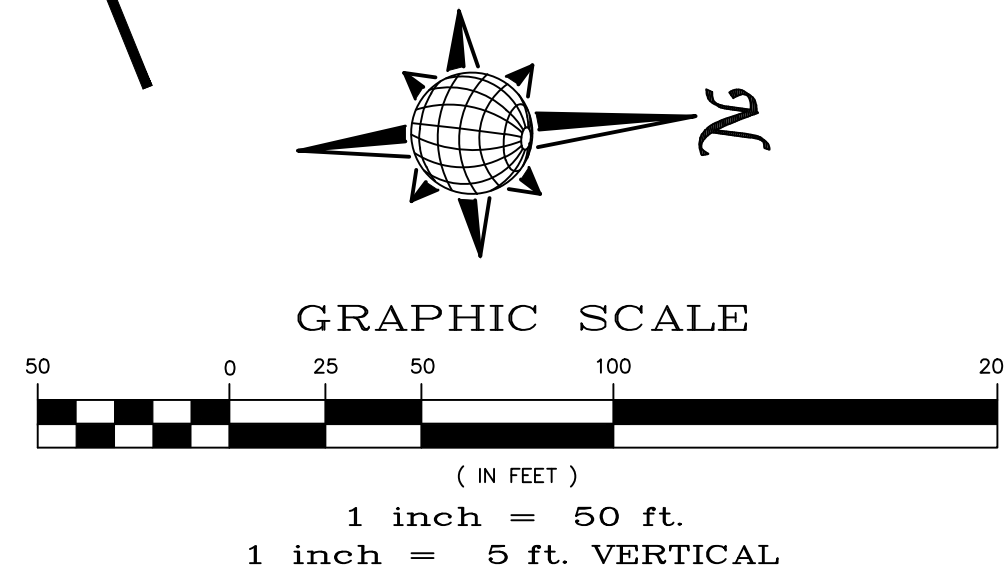
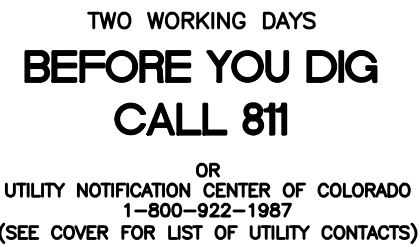
**WM #1**



**WM #2**

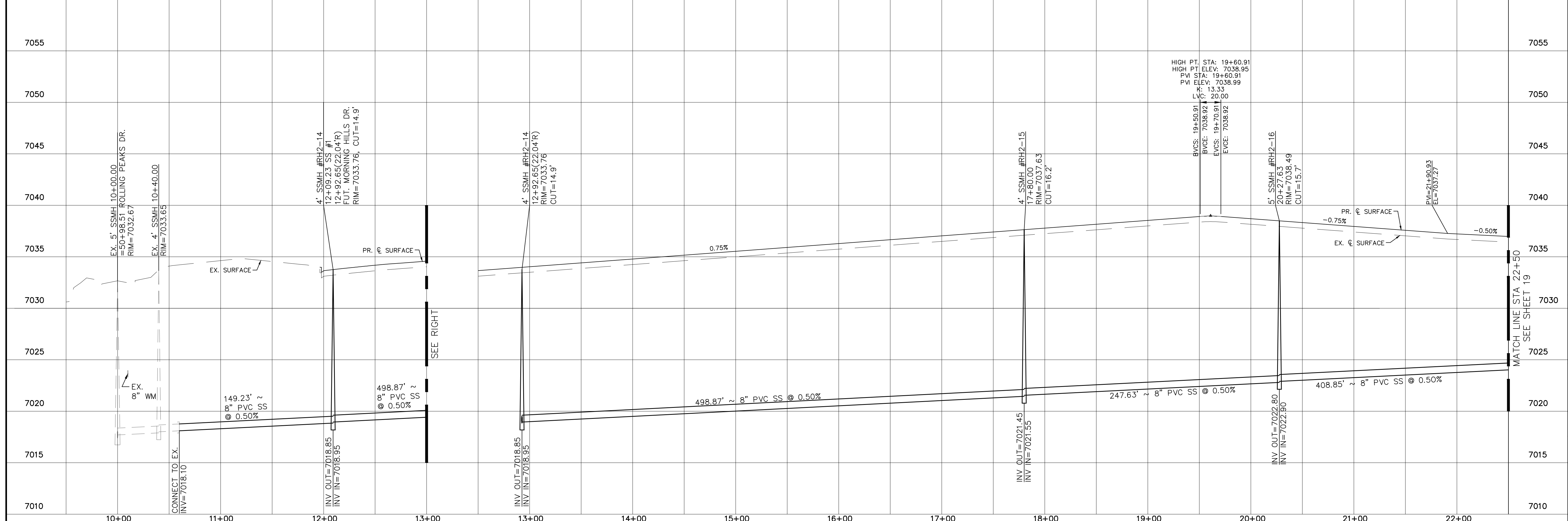


	Scale AS SHOWN	Drawn by LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS  WM #1 + WM #2	 <b>MERIDIAN RANCH</b>	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1							
		Checked by TAK				2							
	17 of 44	Date JULY 2020				3							
						4							
						No.	Revisions	Date	Init.	Appr.	Date		



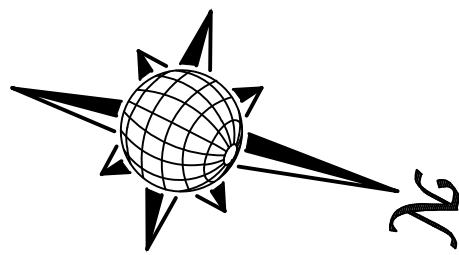
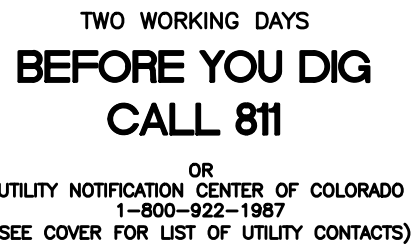
# SS #1

FUT. MORNING HILLS DR.



<div>Scale</div> <div>AS SHOWN</div>	Drawn by	<div>THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS SS #1 + FUT. MORNING HILLS DR.</div>	<div> MERIDIAN RANCH</div>	<div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831  TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>						
	LOG				1					
	Checked by				2					
	TAK				3					
	Date				4					
18 of 44					No.	Revisions	Date	Init.	Date	



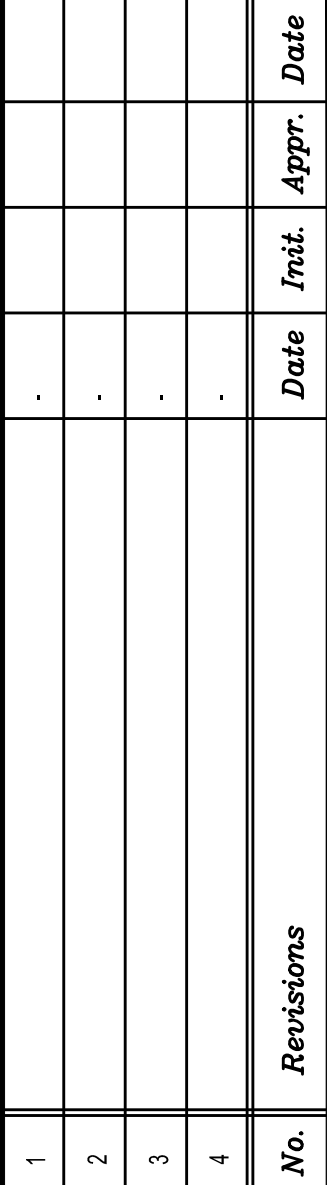
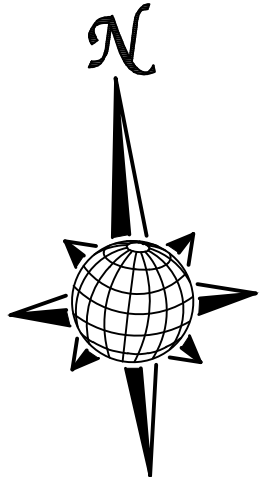


**GRAPHIC SCALE**

( IN FEET )

1 inch = 50 ft.

1 inch = 5 ft. VERTICAL

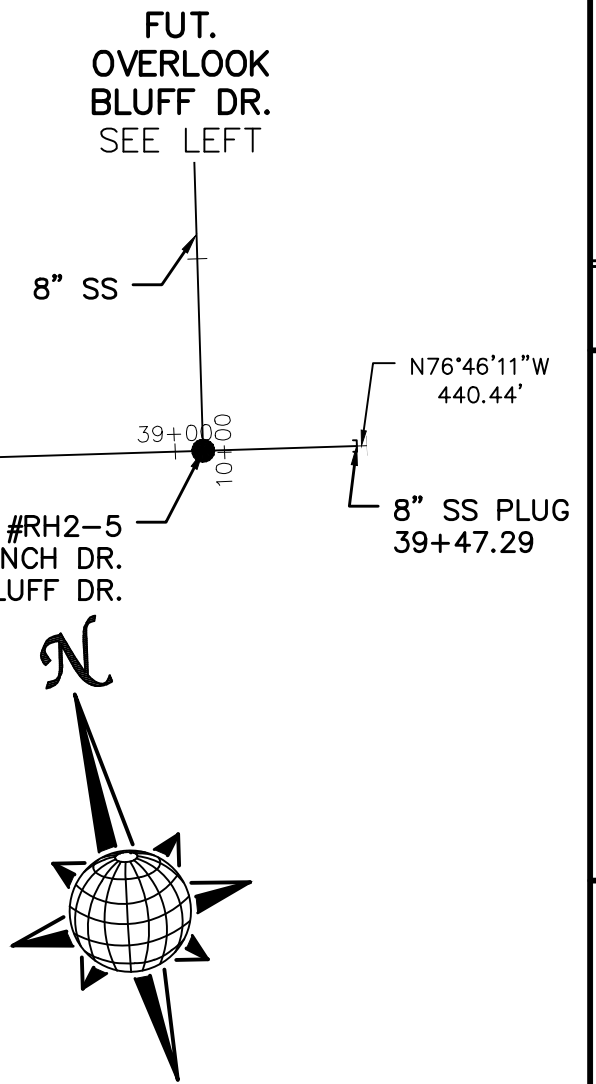
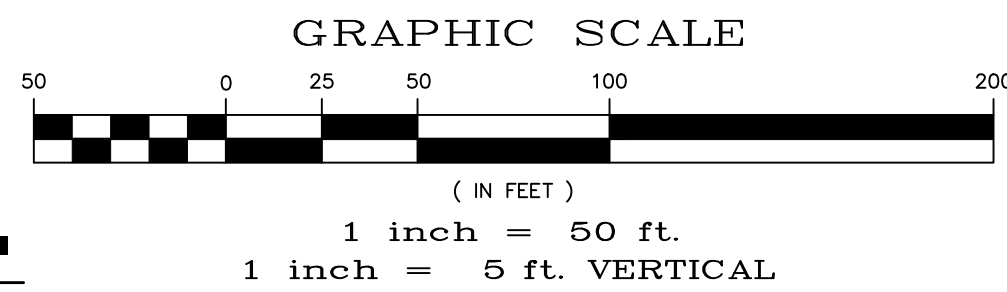
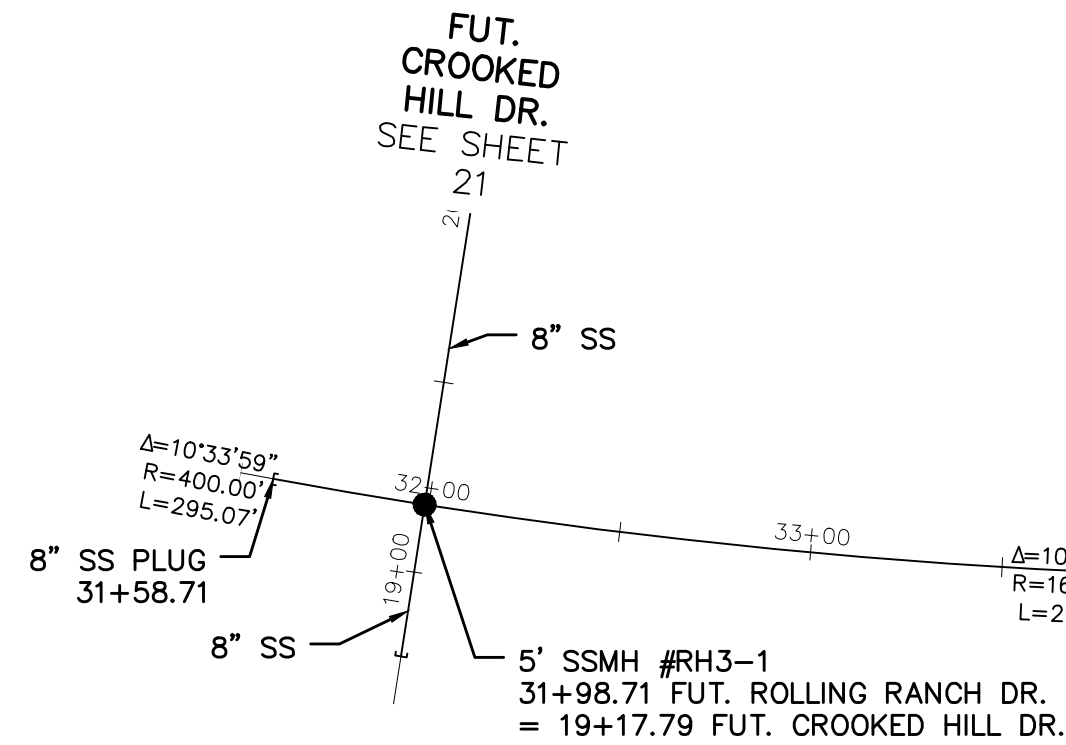
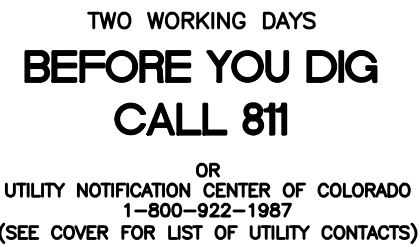


**TECH CONTRACTORS**  
**11886 STAPLETON DRIVE**  
**FALCON, CO 80831**  
**TELEPHONE: 719.495.7444**  
**FAX: 719.495.2457**



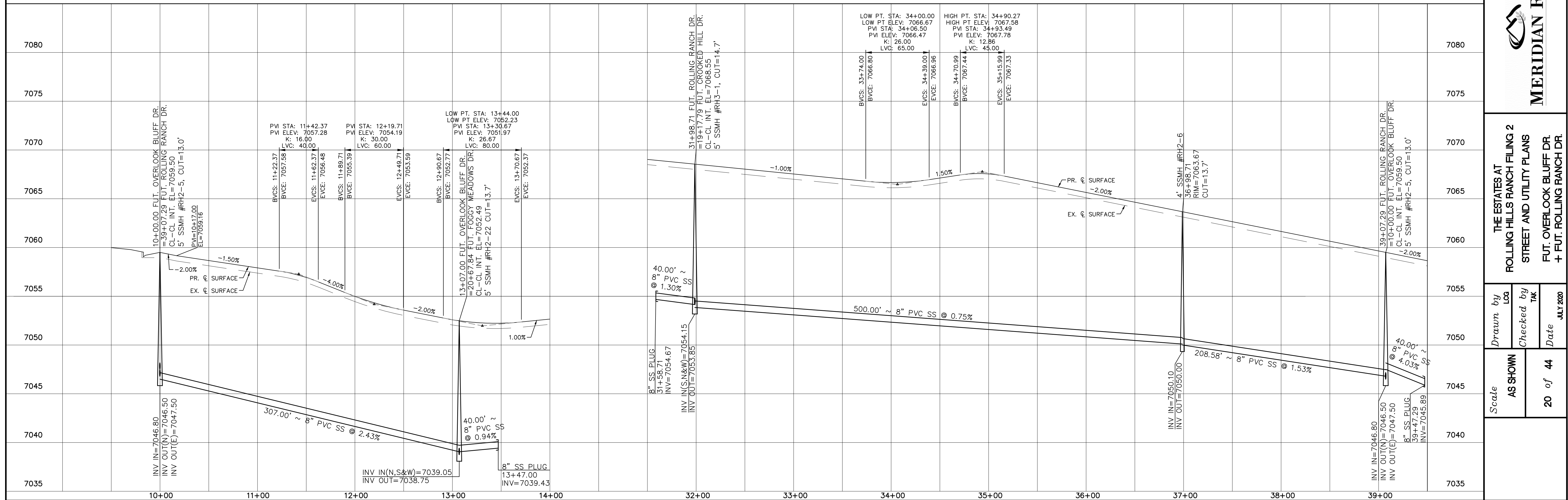
THE ESTATES AT  
MORNING HILLS RANCH FILING 2  
STREET AND UTILITY PLANS  
FUT. MORNING HILLS DR.

Scale AS SHOWN	Drawn by LOG
	Checked by TAK
19 of 44	Date JULY 2020

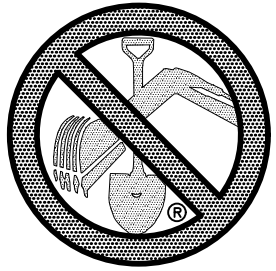


FUT. OVERLOOK BLUFF DR.

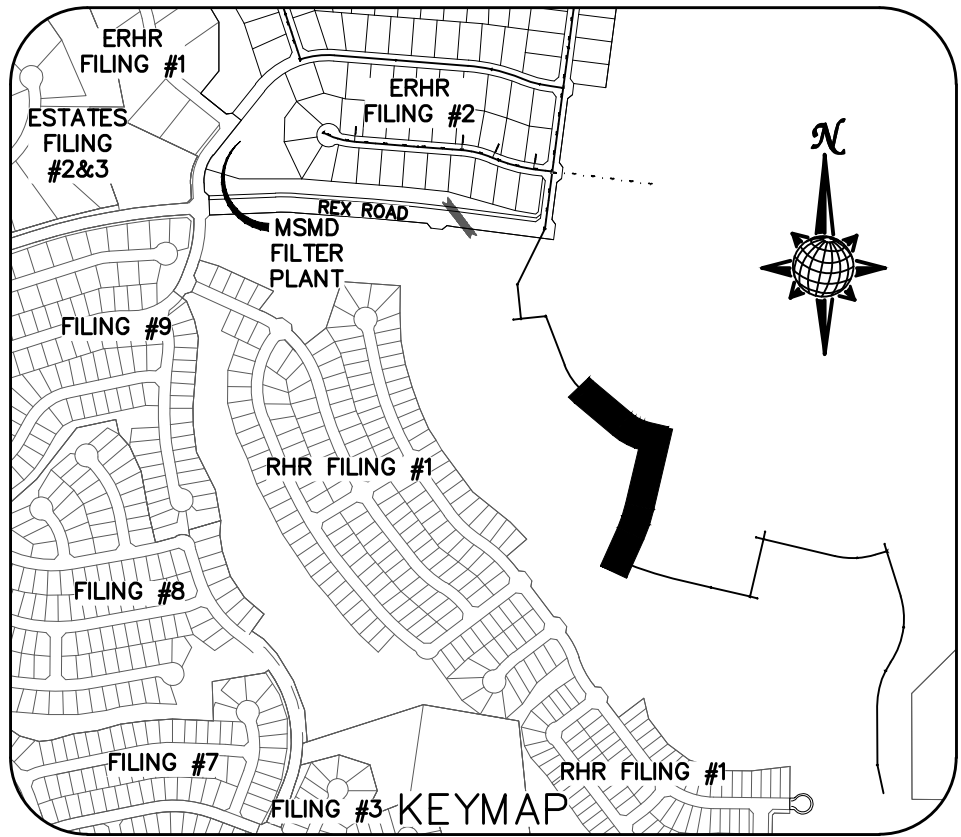
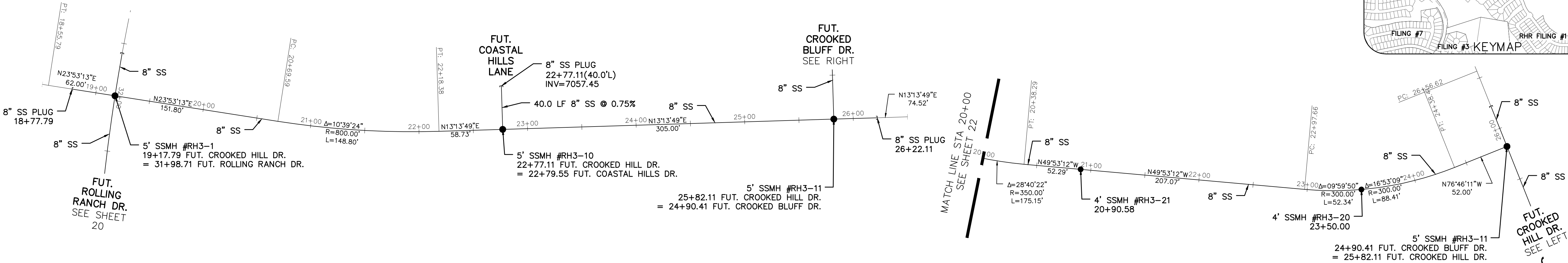
FUT. ROLLING RANCH DR.





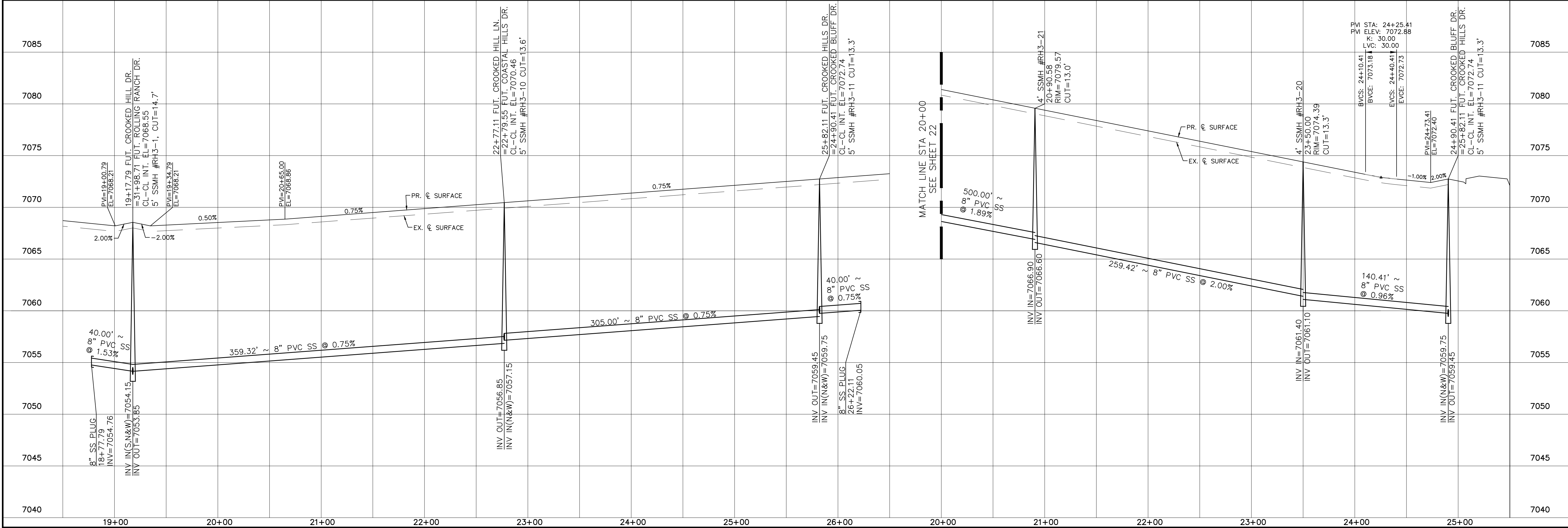



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FUT. CROOKED HILL DR.

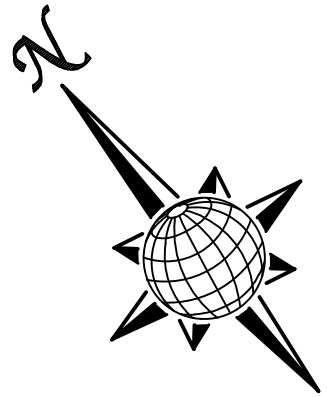
FUT. CROOKED BLUFF DR.



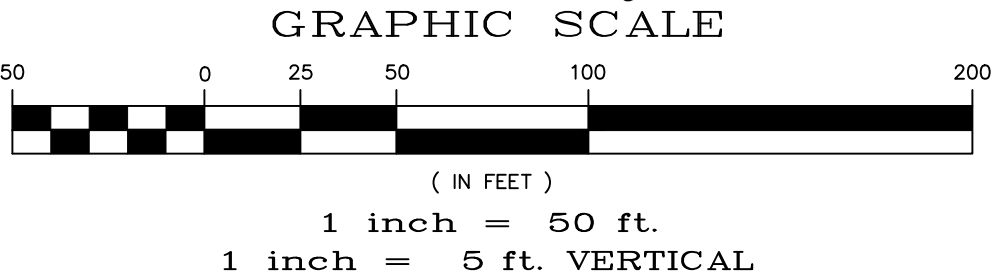
Scale AS SHOWN		Drawn by	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS		 <b>MERIDIAN RANCH</b>	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		1	-				
		LO3	2	-									
21 of 44		Checked by	FUT. CROOKED HILL DR. + FUT. CROOKED BLUFF DR.					3	-				
		TAK	4	-									
		Date	JULY 2020										
								No.	Revisions	Date	Init.	Appr.	Date



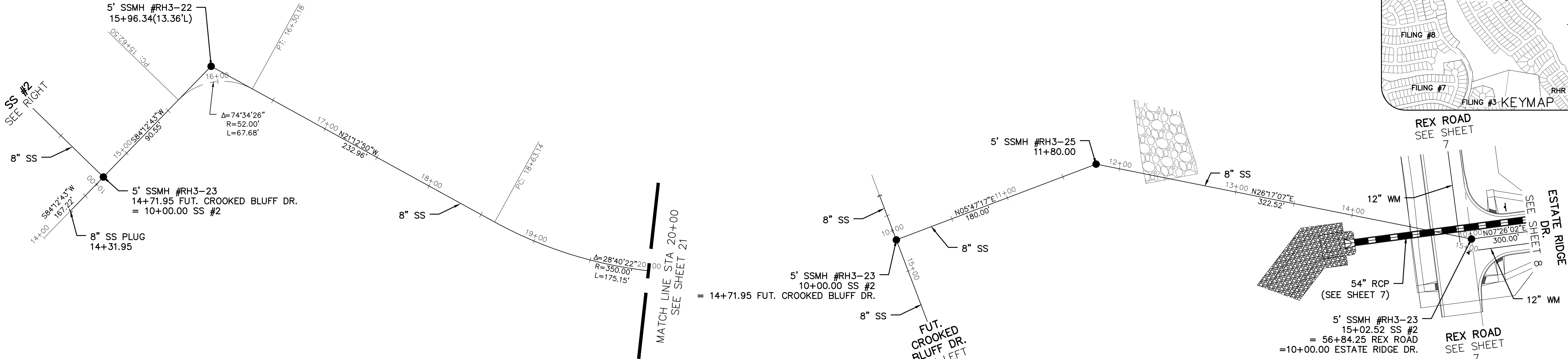
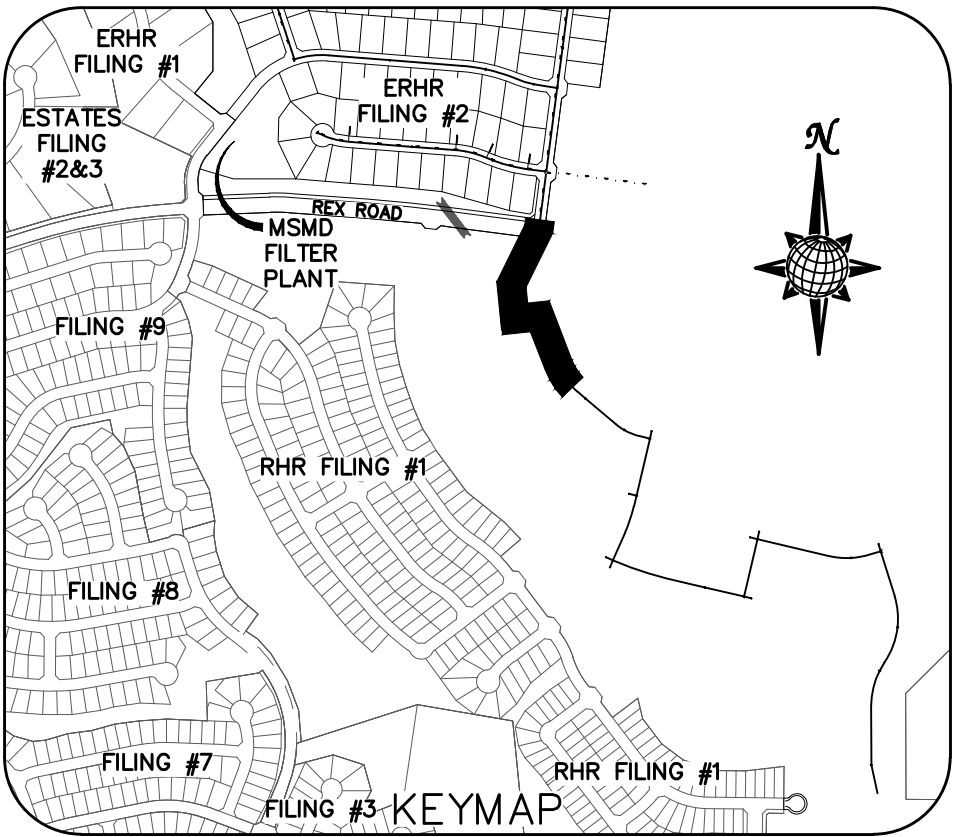
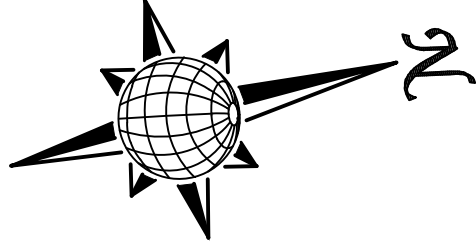
TWO WORKING DAYS  
**BEFORE YOU DIG  
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OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)



# FUT. CROOKED BLUFF DR.



# SS #2



Date	Appr.	Init.	Revisions

No.	Revisions
1	
2	
3	
4	

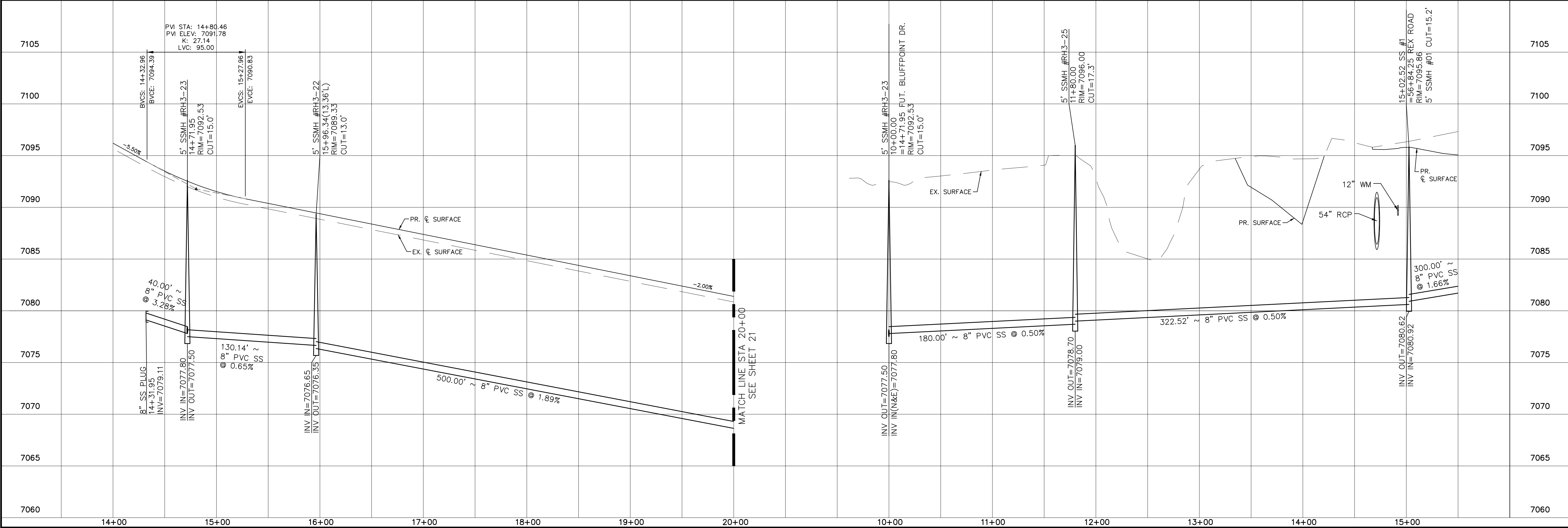
TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE 719.495.7444  
FAX 719.495.2457



**MERIDIAN RANCH**

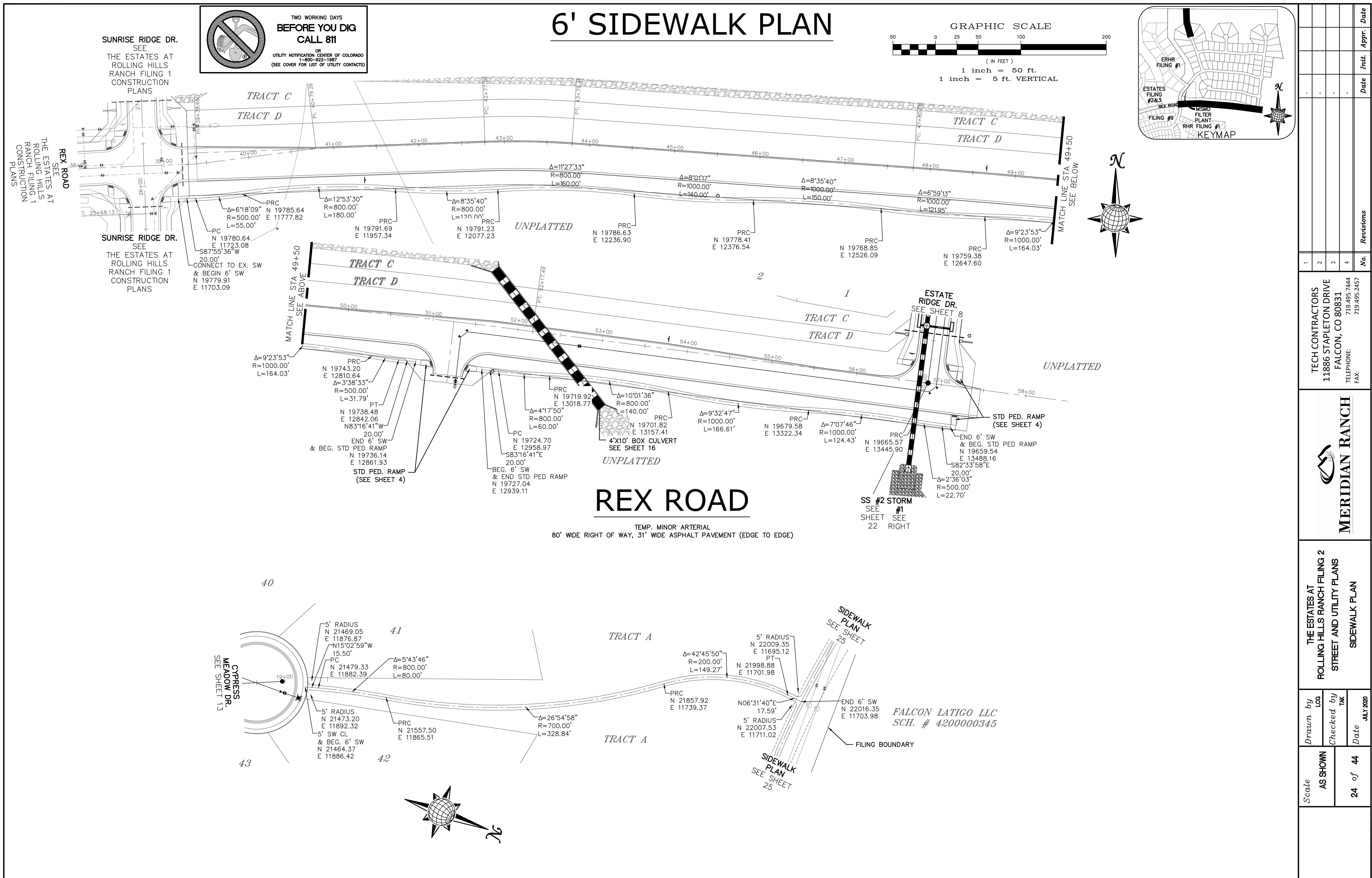
THE ESTATES AT  
ROLLING HILLS RANCH FILING 2  
STREET AND UTILITY PLANS  
FUT. CROOKED BLUFF DR.  
+ SS #2

Scale	Drawn by	Log	Checked by	Date
AS SHOWN			TAK	JULY 2020
22 of 44				

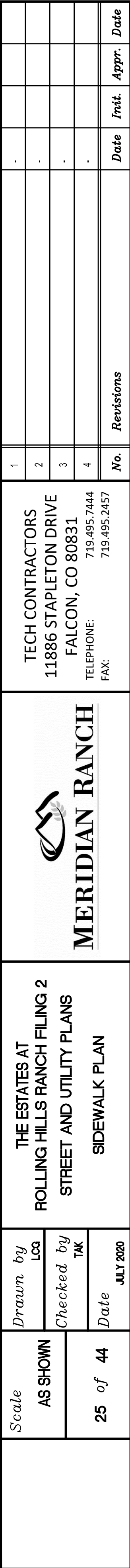
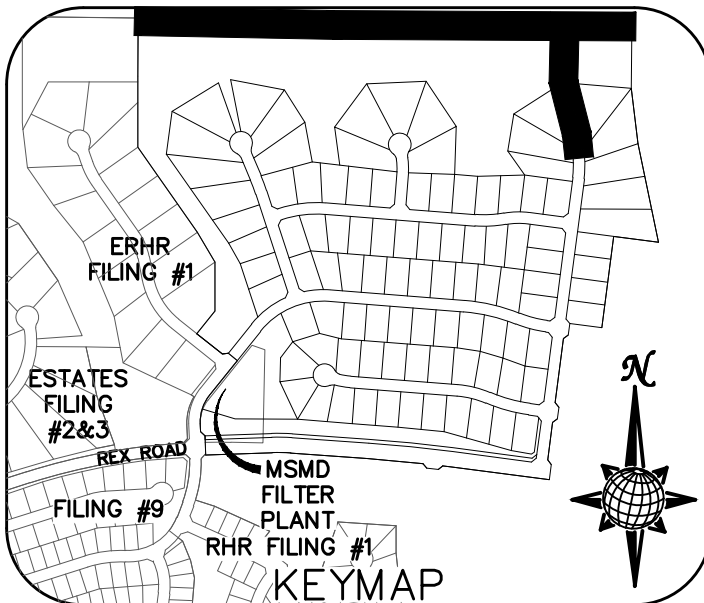


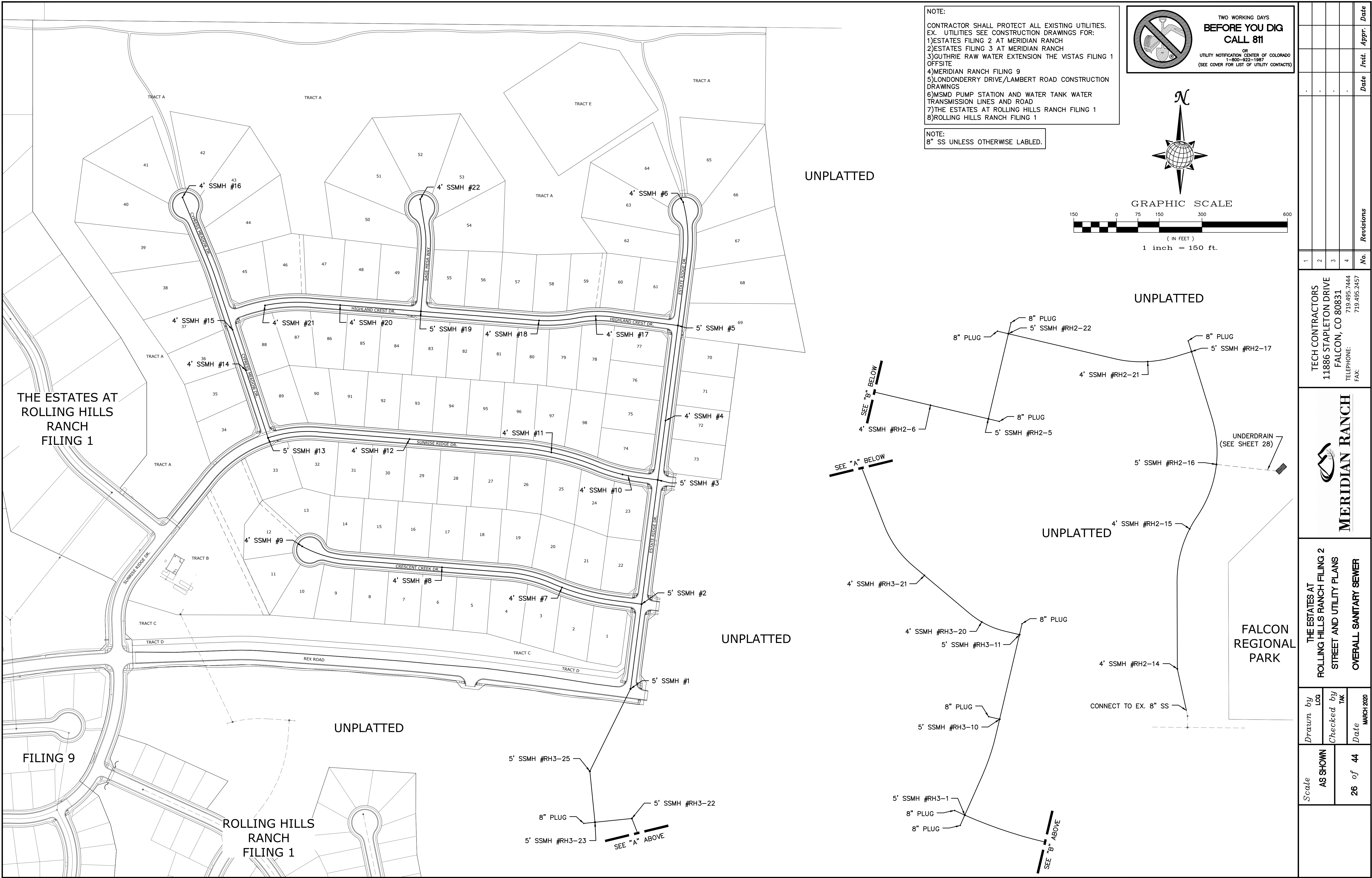












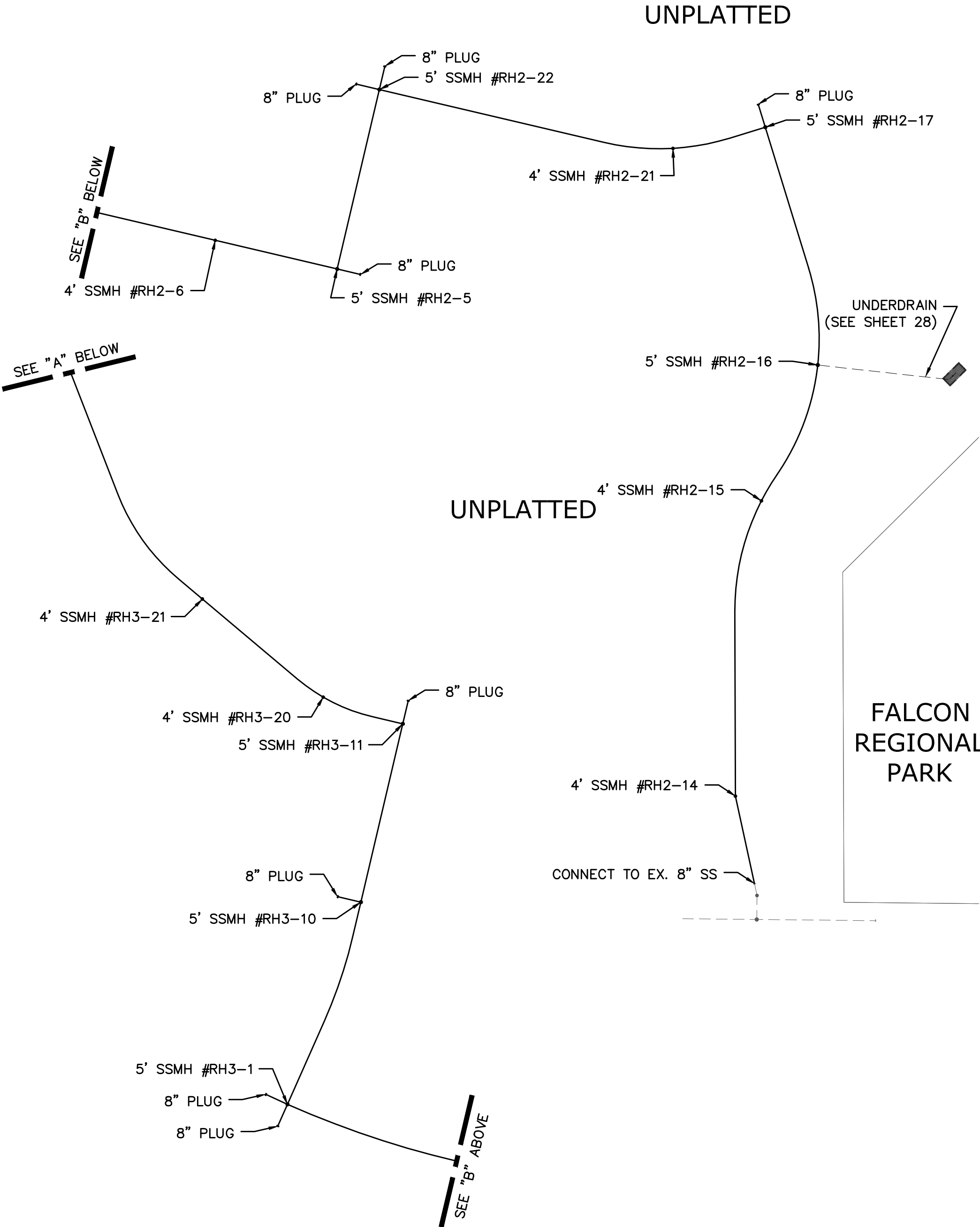
NOTE:  
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
4)MERIDIAN RANCH FILING 9  
5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD  
7)THE ESTATES AT ROLLING HILLS RANCH FILING 1  
8)ROLLING HILLS RANCH FILING 1


NOTE:  
8" SS UNLESS OTHERWISE LABLED.

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1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

GRAPHIC SCALE  
( IN FEET )  
1 inch = 150 ft.




<div>Scale</div> <div>AS SHOWN</div> <div>26 of 44</div>	<div>Drawn by</div> <div>LOG</div>	<div>THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS OVERALL SANITARY SEWER</div>	<div> <b>MERIDIAN RANCH</b></div>	<div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>	1					
	<div>Checked by</div> <div>TAK</div>				2					
	<div>Date</div> <div>MARCH 2020</div>				3					
					4					
						No.	Revisions	Date	Init.	Appr.






NOTE:

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
4)MERIDIAN RANCH FILING 9  
5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
6)MSND PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD  
7)THE ESTATES AT ROLLING HILLS RANCH FILING 1  
8)ROLLING HILLS RANCH FILING 1




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1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

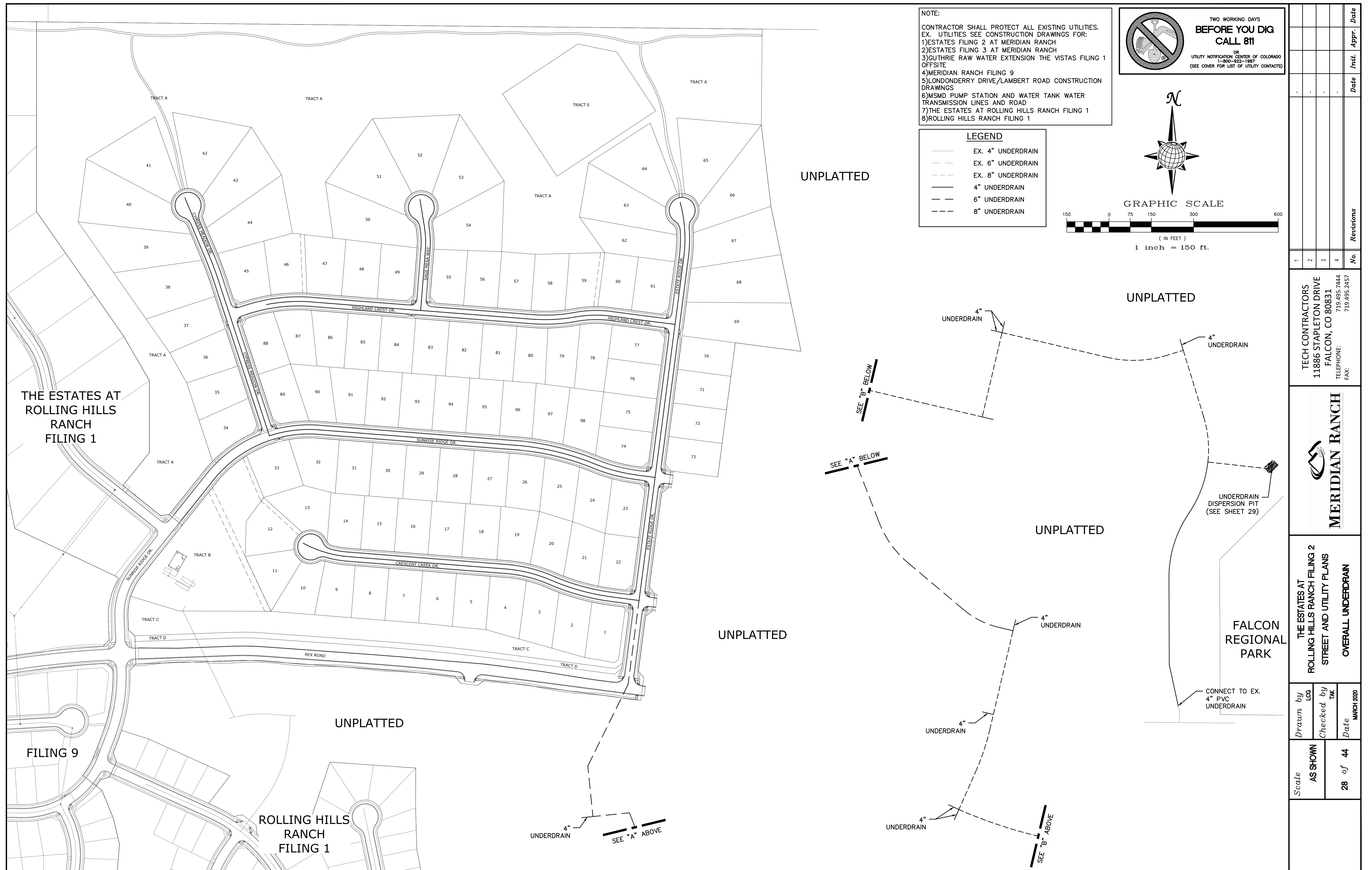


GRAPHIC SCALE

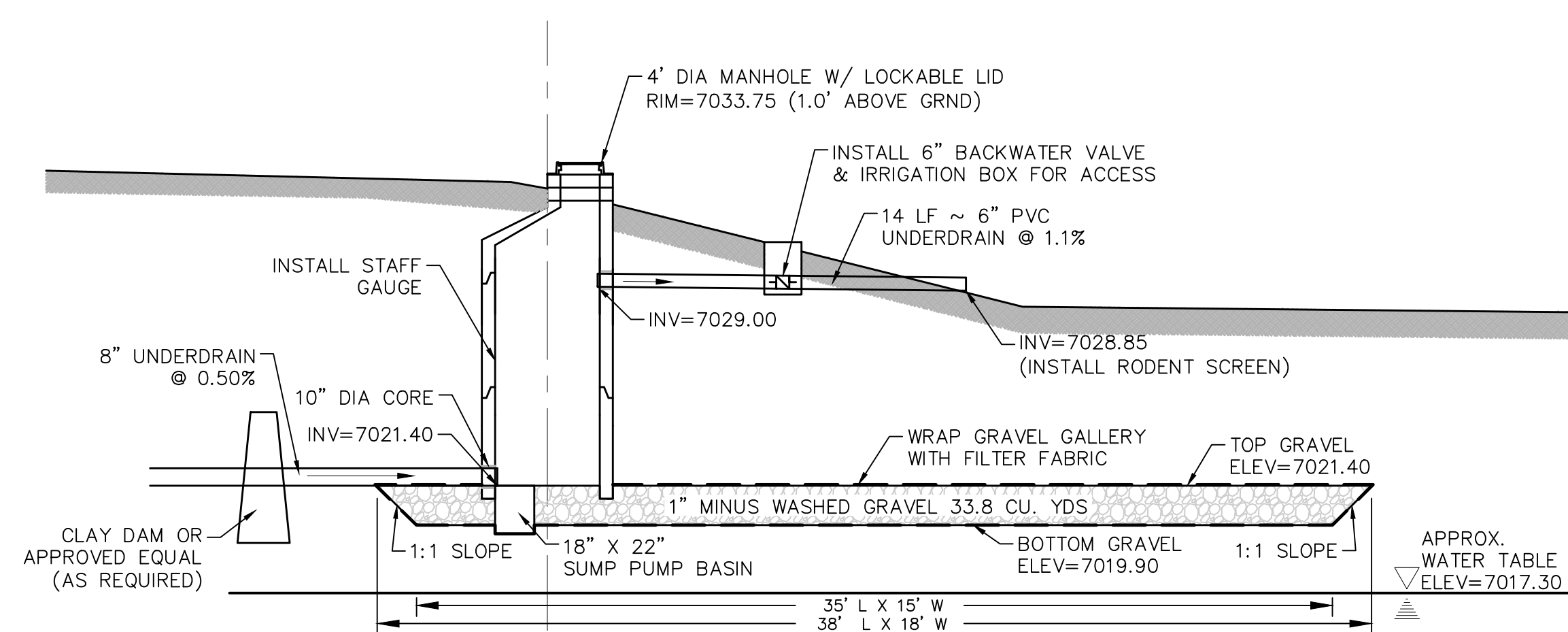
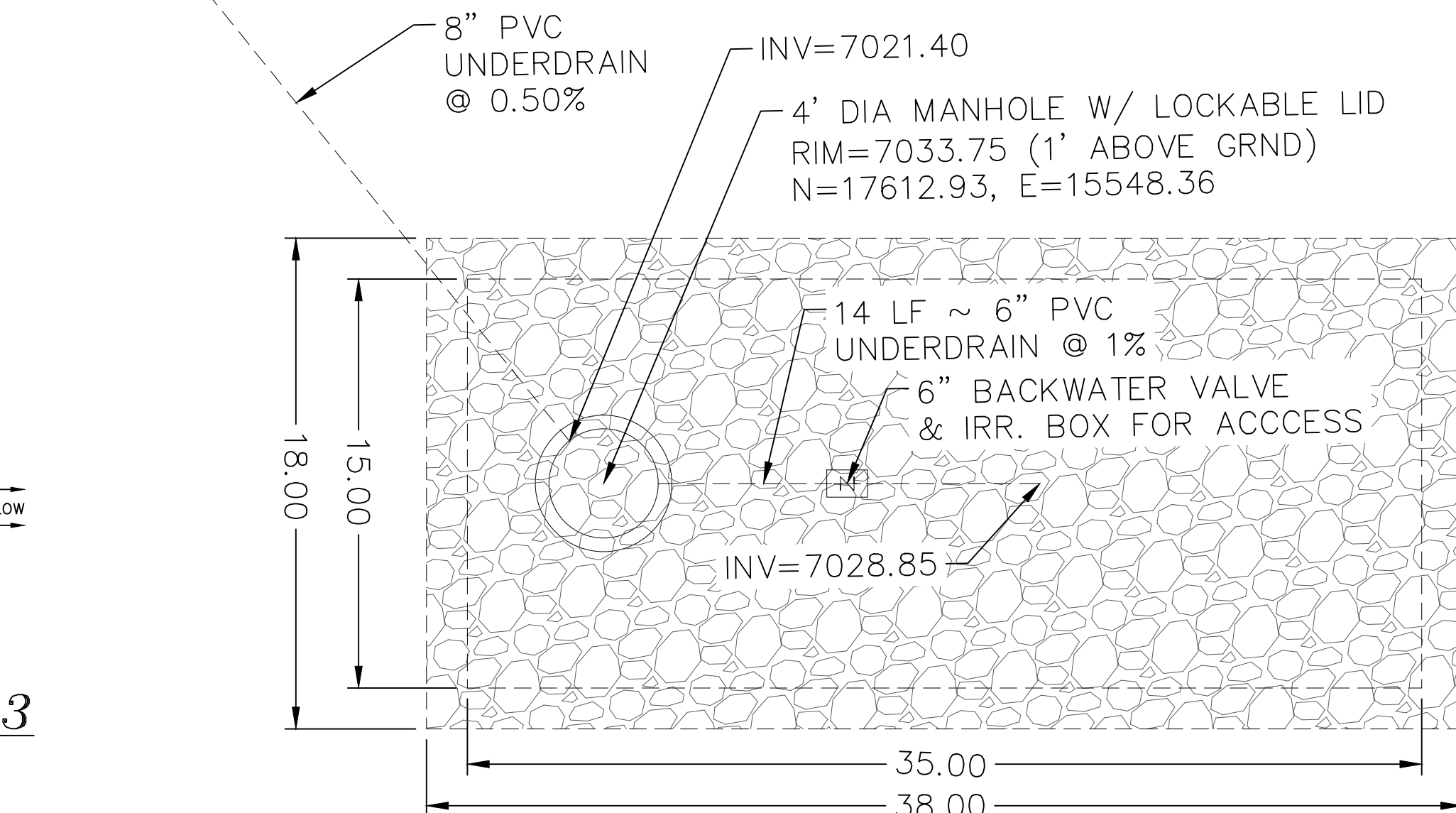
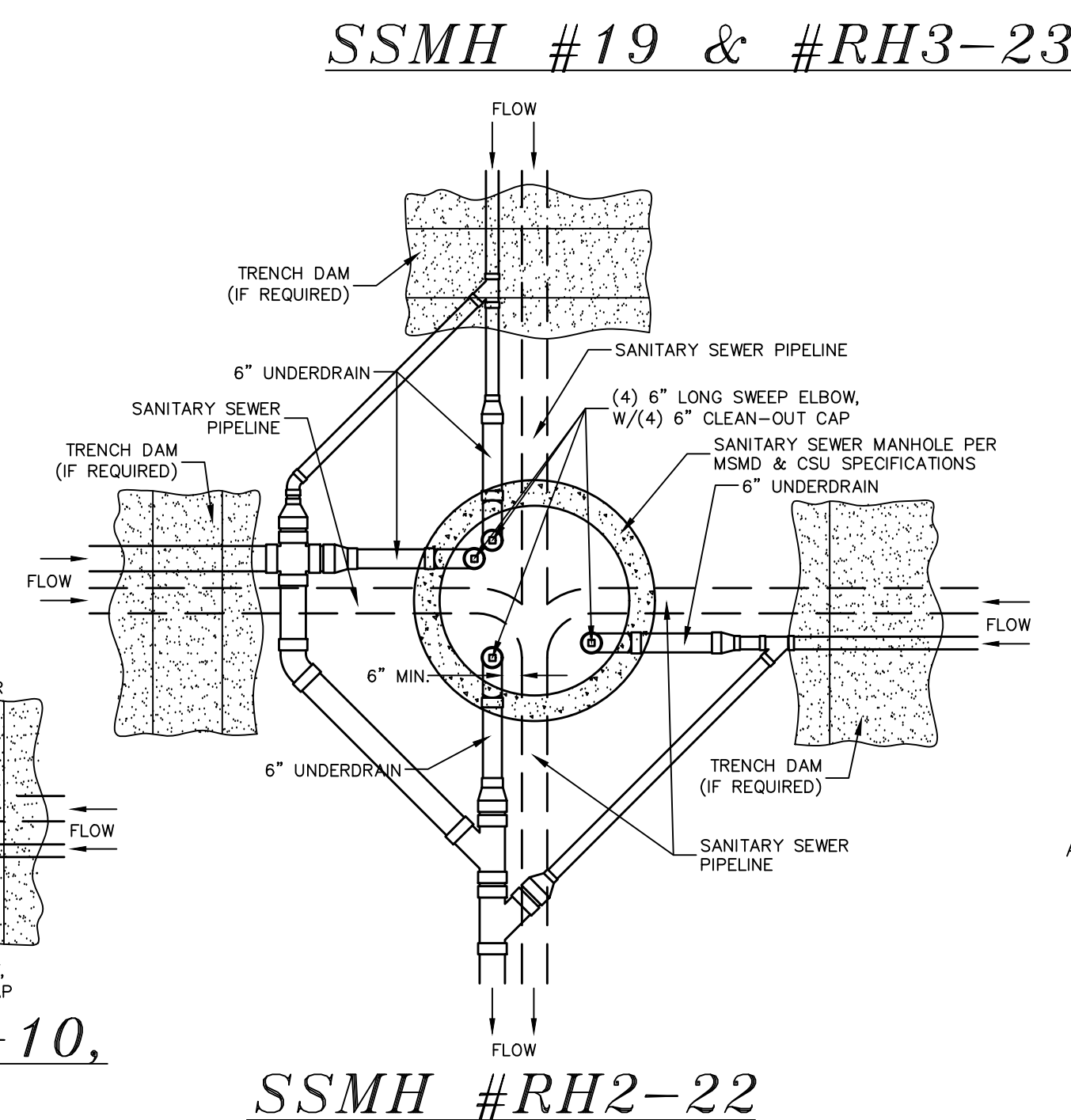
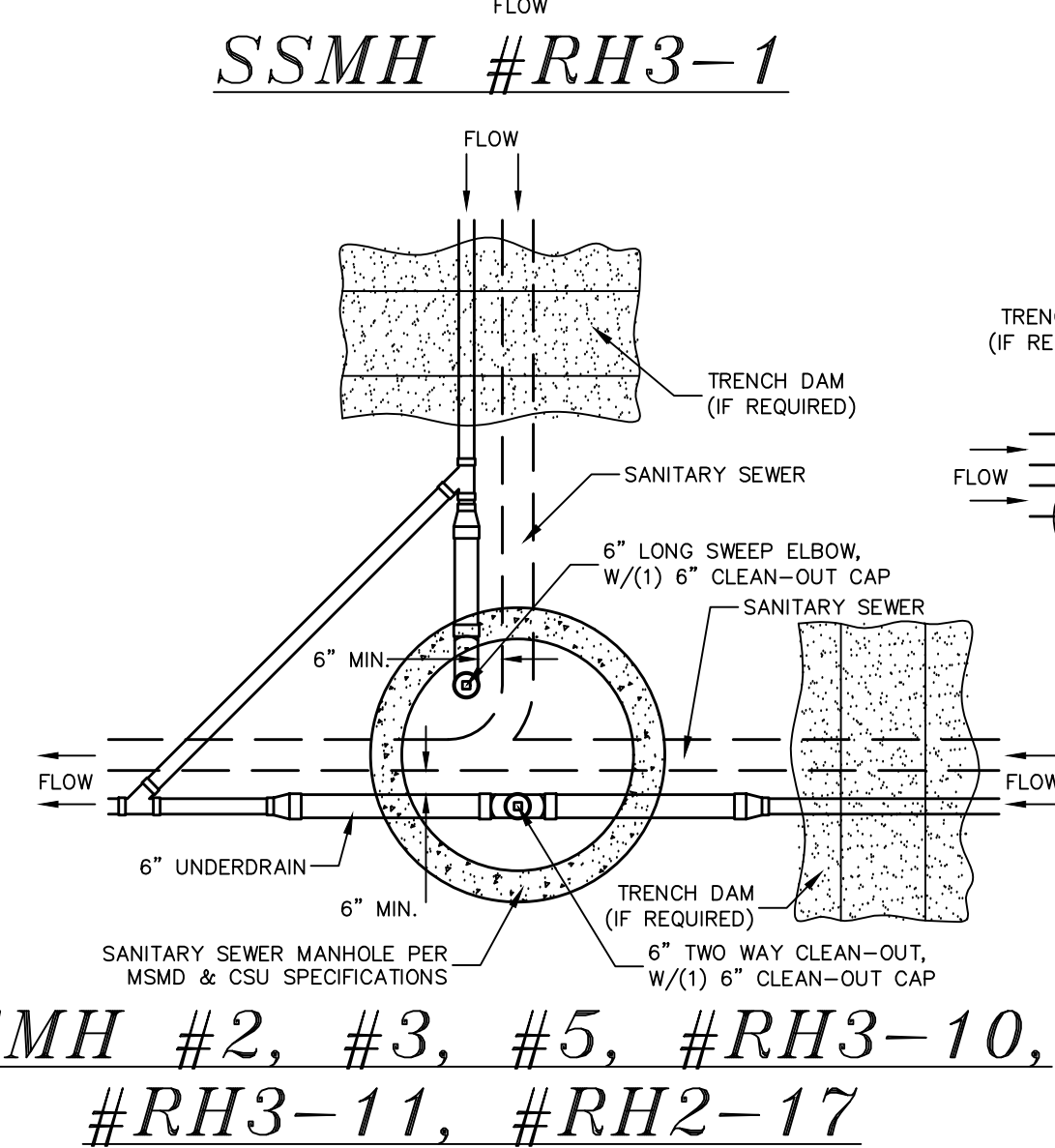
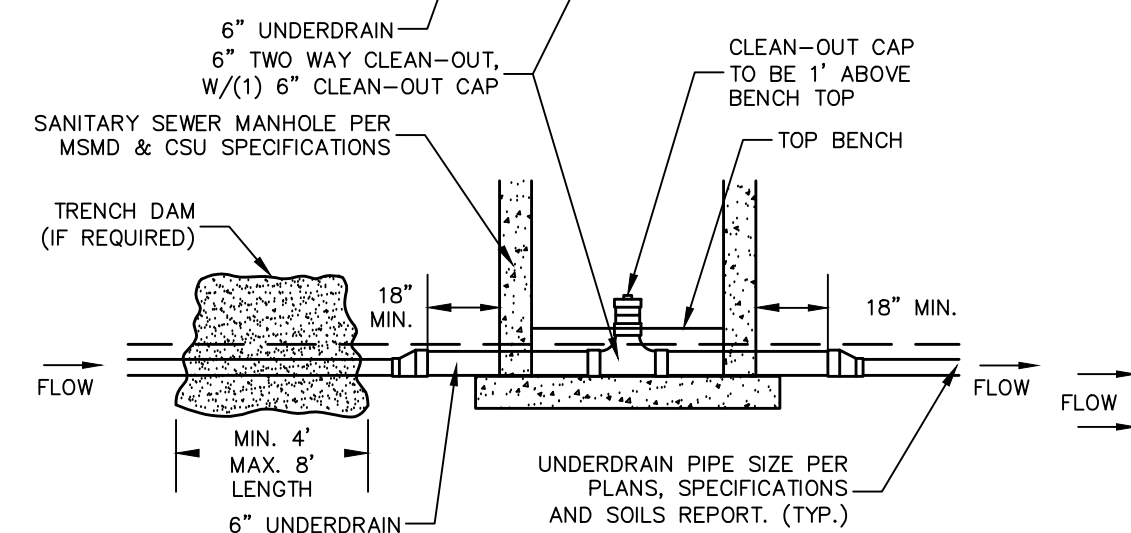
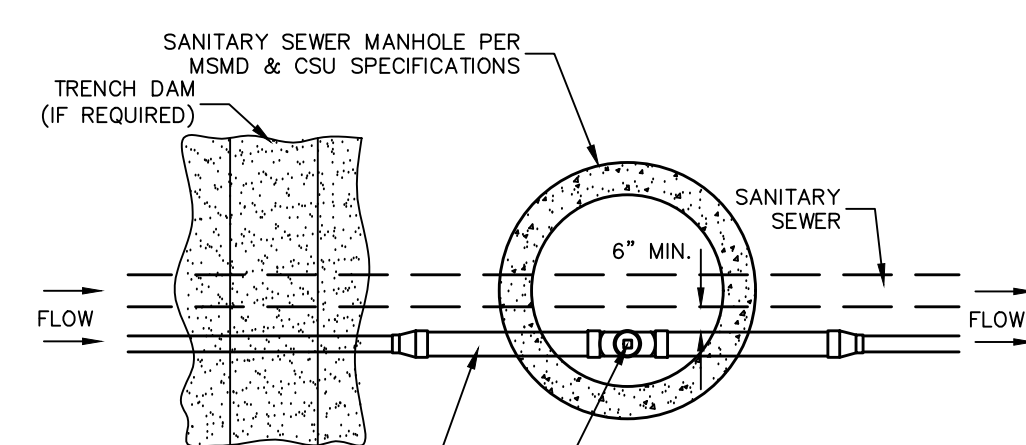
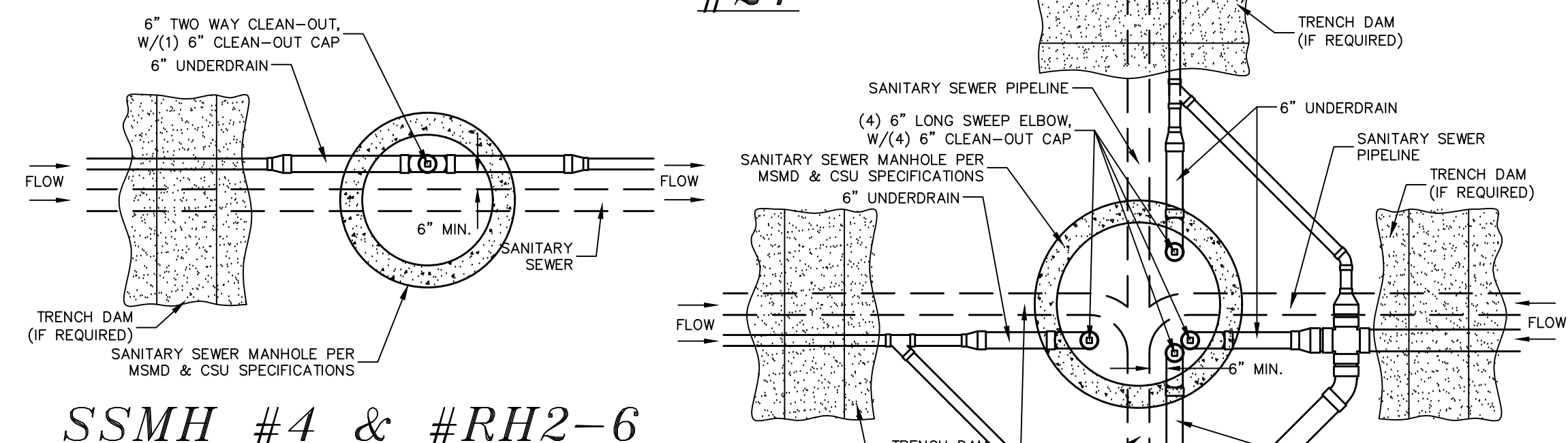
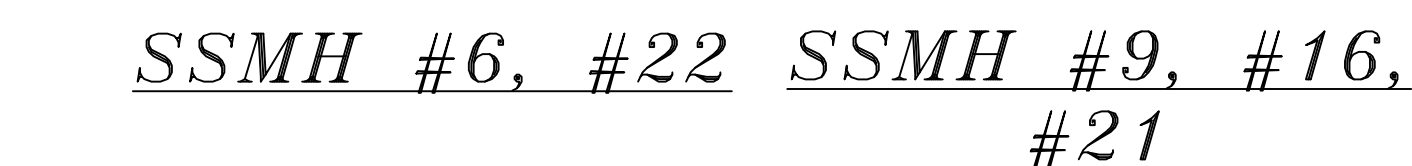
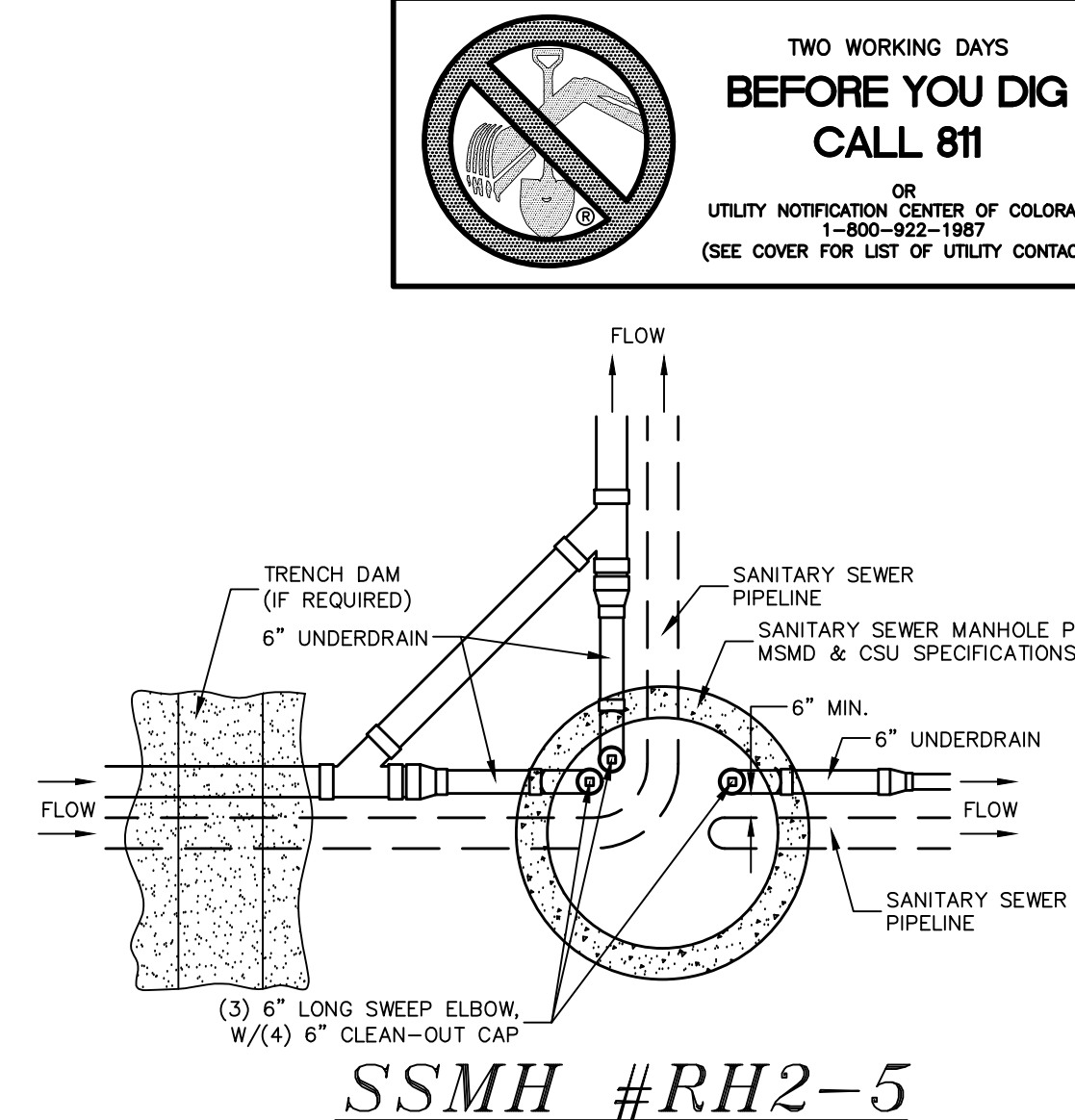
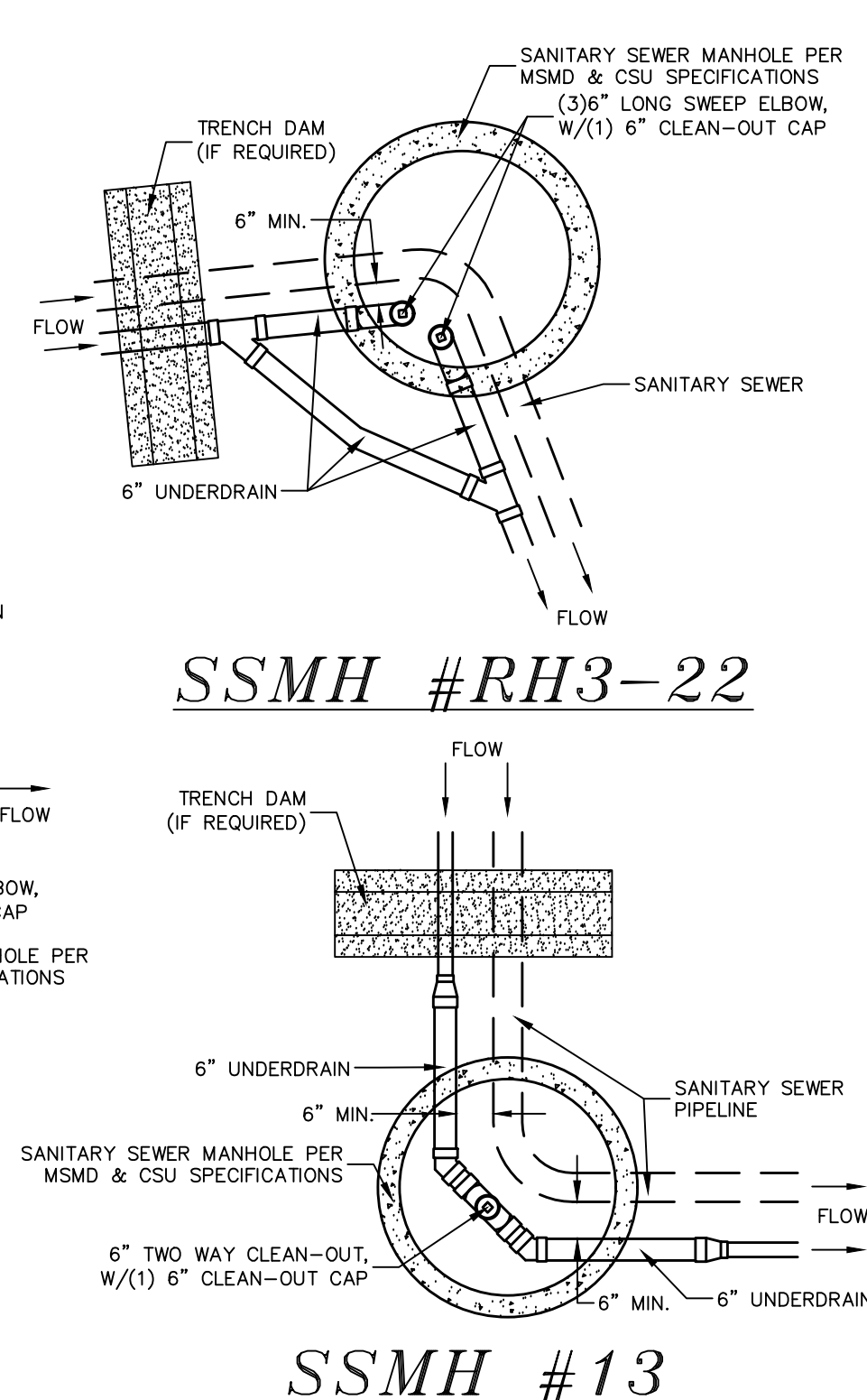
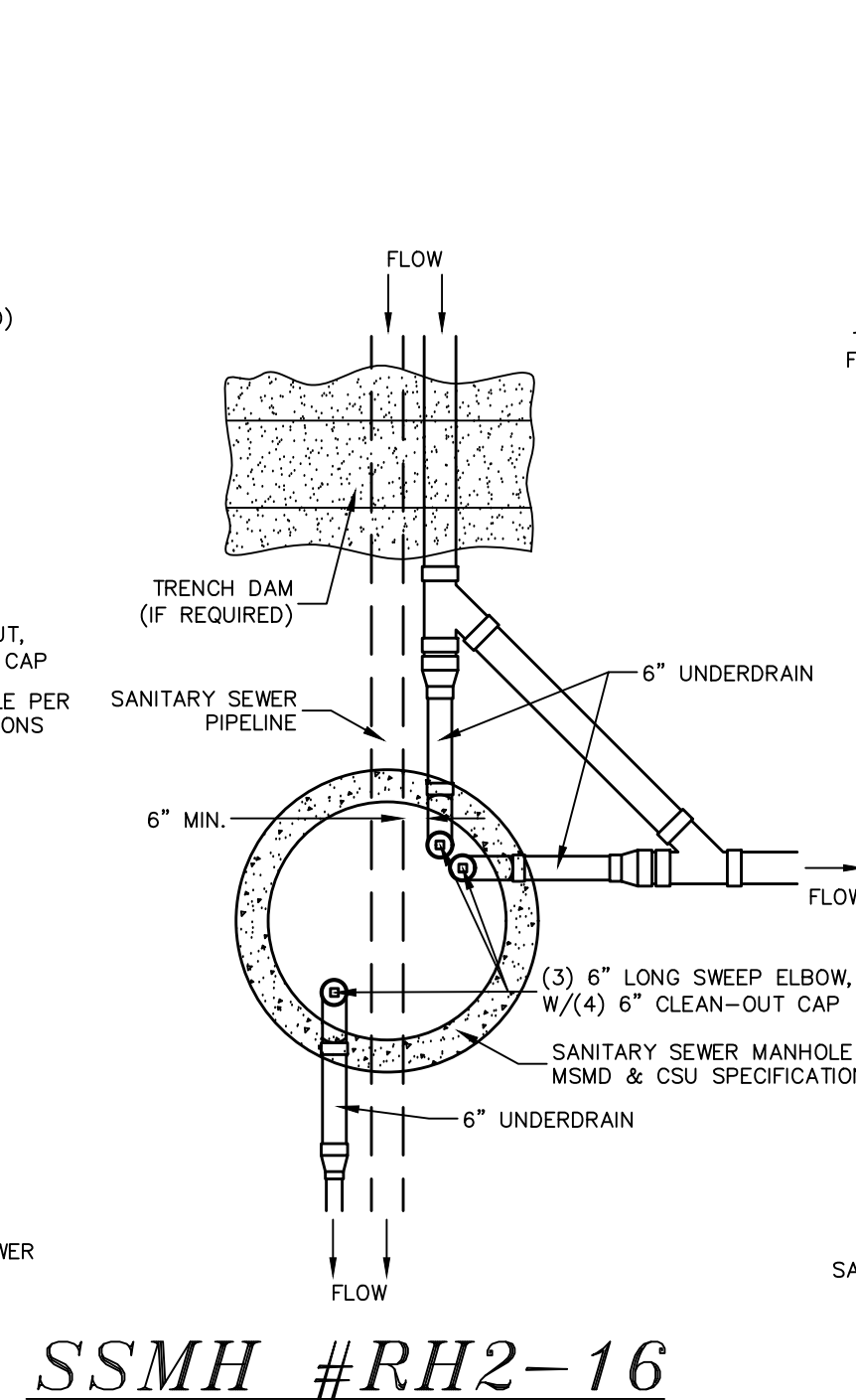
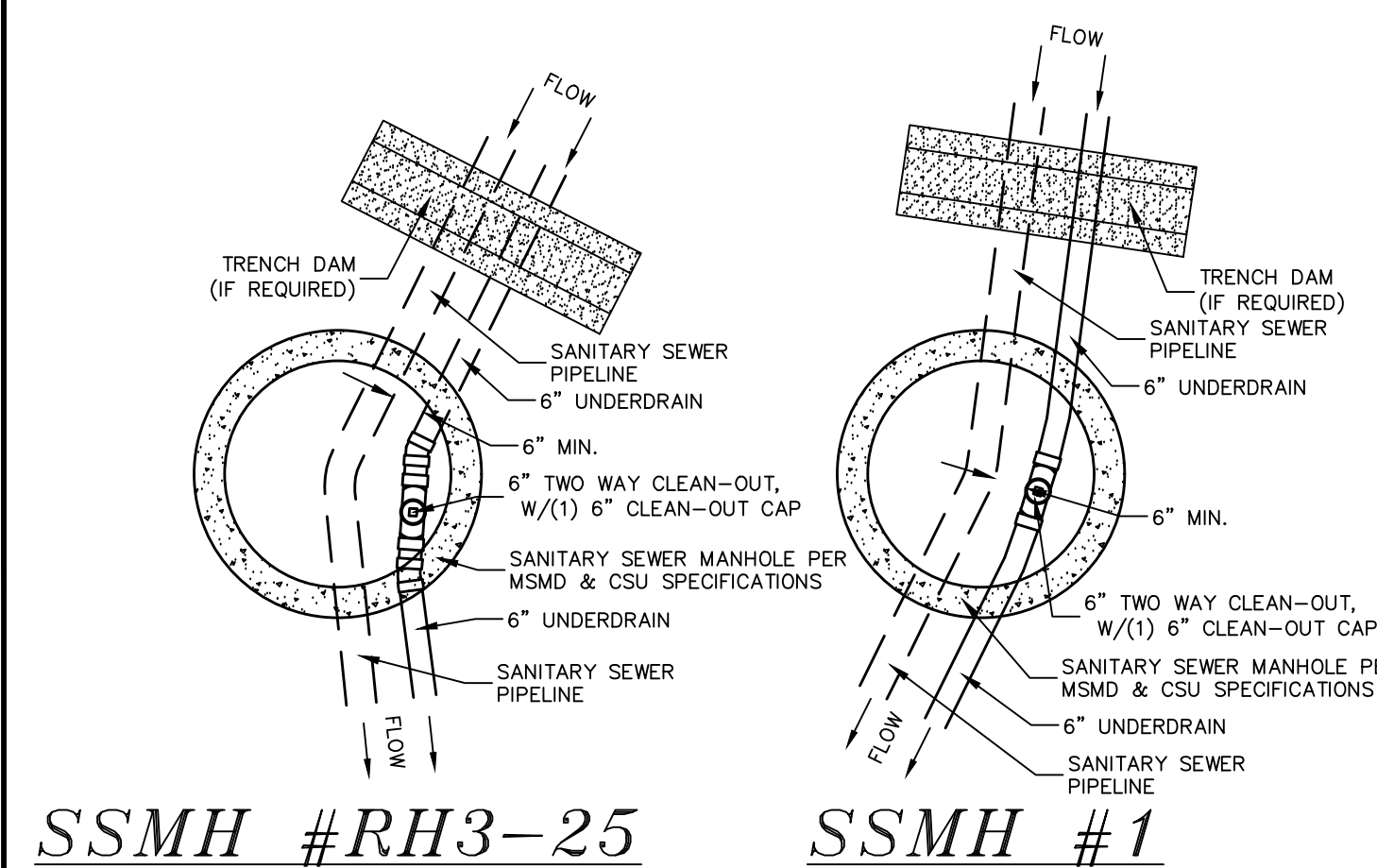



( IN FEET )  
1 inch = 150 ft.

Scale AS SHOWN	Drawn by LCS	Checked by TAK	Date MARCH 2020	27 of 44		Revisions	No.	1	2	3	4	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457			 <b>MERIDIAN RANCH</b>	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS OVERALL SS SERVICES				Date Appr.	Date Init.









TWO WORKING DAYS  
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OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

NOTES:

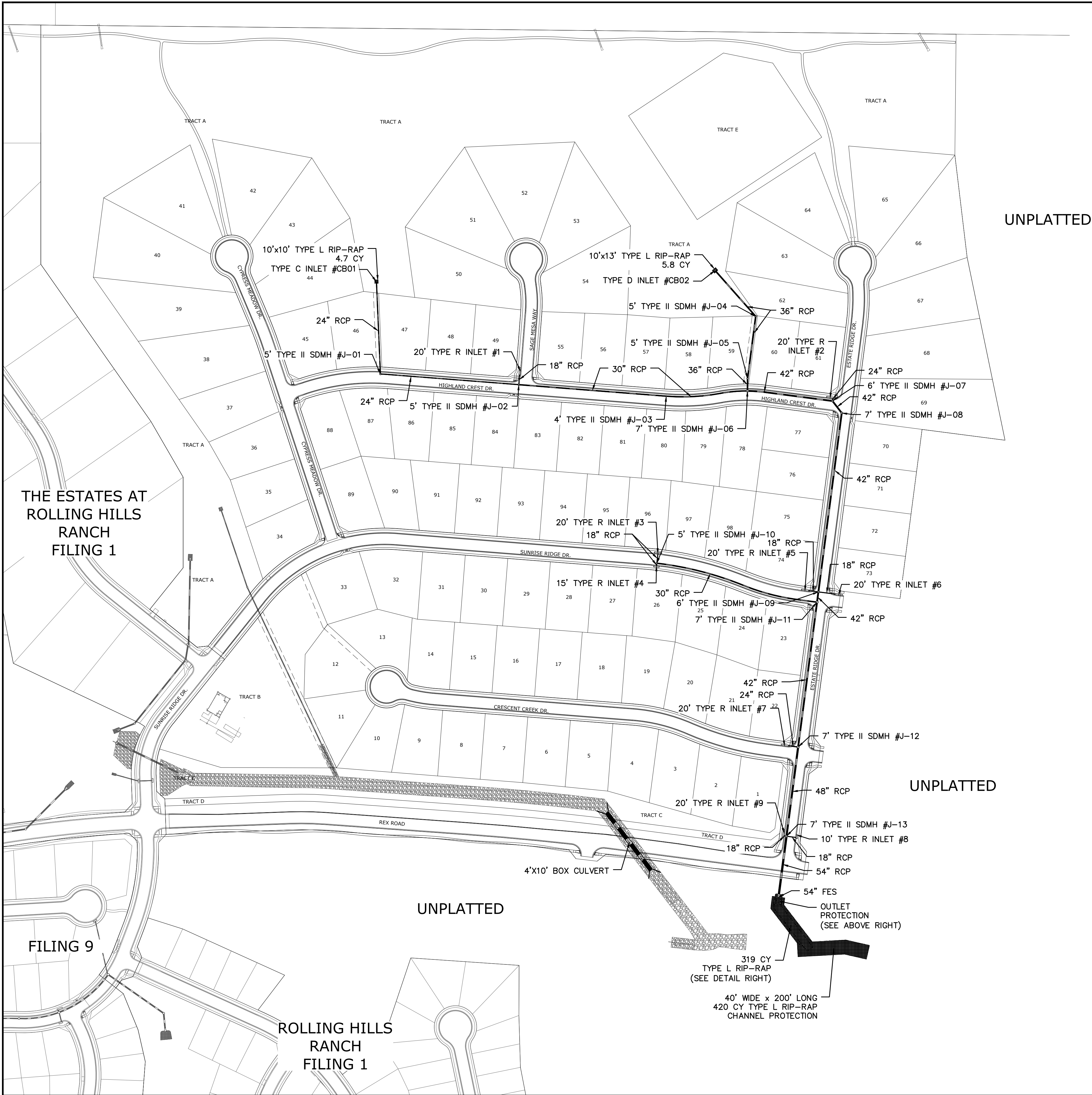
1. THE UNDERDRAIN SYSTEM SHALL BE PASSIVE, WATER TIGHT, NON- PERFORATED PIPE, WITH THE MAIN LINE SIZE DESIGNED BY THE ENGINEER. ALL UNDERDRAIN PIPES AND FITTINGS SHALL BE SDR 35 PVC, OR MSMD APPROVED EQUAL, INSTALLED PER THE SAME INSTALLATION STANDARDS AS OUTLINED BY CSUS FOR SANITARY SEWER SYSTEMS. THE UNDERDRAIN SYSTEM AT EACH SANITARY SEWER MANHOLE SHALL CONTAIN 6" CLEAN-OUTS IN EACH UNDERDRAIN MAIN DIRECTION PER THE CLEAN-OUT DESIGN. ALL LOTS SHALL RECEIVE A WHITE 3" UNDERDRAIN SERVICE LATERAL ADJACENT TO THE SANITARY SEWER SERVICE LATERAL.
2. TESTING OF THE UNDERDRAIN SYSTEM WILL CONSIST OF VISUAL INSPECTIONS FOR WATER IN THE SYSTEM, ALONG WITH A VIDEO INSPECTION PERFORMED BY MSMD PERSONNEL. ALL UNDERDRAIN MAINS AND DOWNSTREAM INFILTRATION STRUCTURES SHALL BE CLEAN AND DEBRIS FREE UPON COMPLETION OF THE SYSTEM AND PRIOR TO CCTV. ALL UNDERDRAIN MAINS SHALL BE CCTV INSPECTED BY MSMD AND REVIEWED FOR APPROVAL. THE SPECIFICATION FOR ALLOWABLE STANDING WATER AND WATER INFILTRATION IN THE UNDERDRAIN SYSTEM SHALL BE THE SAME AS PER CSUS FOR SANITARY SEWER SYSTEMS. IF EXCESS WATER IS OBSERVED IN THE UNDERDRAIN SYSTEM, THE CONTRACTOR SHALL LOCATE THE SOURCE OF WATER INFILTRATION AND REPAIR AS NECESSARY TO MEET CSUS.
3. IF THE UNDERDRAIN MAIN HAS LOW SPOTS THAT EXCEED CSUS STANDARDS, THE CONTRACTOR SHALL REPAIR THE LINE AS NECESSARY TO MEET CSUS. UNDERDRAIN MAINS THAT DO NOT MEET MSMD STANDARDS SHALL BE REPLACED AND OR REPAIRED AS NECESSARY. THE CONTRACTOR SHALL RE-CCTV INSPECT THE UNDERDRAIN MAIN LINES AFTER THE REPAIRS HAVE BEEN MADE WITH ONE VIDEO SUBMITTED TO MSMD FOR REVIEW AND APPROVAL.
4. UNDER DRAIN MAIN LINES SHALL HAVE CONTINUOUS POSITIVE DRAINAGE TO THE POINT OF DISCHARGE INTO A BELOW GRADE AN APPROVED UNDERDRAIN INFILTRATION STRUCTURE WHEREVER POSSIBLE. UNDERDRAIN INFILTRATION STRUCTURES SHALL BE DESIGNED WITH OVERFLOW LINES FOR FUTURE EXPANSION AS NEEDED. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION OF THE INFILTRATION STRUCTURE, STOP INSTALLATION AND CONTACT THE DISTRICT ENGINEER FOR POSSIBLE ALTERNATE DESIGN.
5. UNDERDRAINS WILL DAYLIGHT AT LOCATIONS SHOWN ON THE DRAWINGS.
6. UNDERDRAIN CLEANOUTS SHALL BE 6 INCH AND SHALL BE LOCATED AT EVERY MANHOLE. UNDERDRAIN CLEANOUTS AND CLEANOUT CONSTRUCTION WILL LEAVE NO INFILTRATION WITHIN SEWER MANHOLES. MANHOLE PENETRATIONS TO BE FILLED WITH NON-SHRINKING GROUT. UNDERDRAIN SIZE WILL NOT BE REDUCED THROUGH THE MANHOLE.
7. TRENCH DAMS WILL BE PROVIDED AT INTERVALS NO GREATER THAN 350 FEET IN SANITARY SEWER SECTIONS WHERE GROUNDWATER EXISTS OR WHERE DIRECTED BY THE ENGINEER. A TRENCH DAM WILL BE CONSTRUCTED WITHIN THE FIRST 100 FEET OF EITHER ENTERING OR EXITING GROUNDWATER. THE CONTRACTOR SHALL NOTIFY THE DISTRICT WHEN GROUNDWATER IS ENCOUNTERED TO REVIEW TRENCH DAM NEEDS, LOCATIONS, AND MATERIALS.
8. TRENCH DAMS MAY BE COMPLETED OR ON SITE MATERIALS IF APPROVED BY THE SOILS ENGINEER.
9. TRENCH DAMS SHALL COMPLETELY INTERRUPT GRAVEL BEDDING AND STABILIZATION THE FULL WIDTH OF THE TRENCH FOR A LENGTH OF NO LESS THAN 4 FEET BUT NO GREATER THAN 8 FEET.
10. TRENCH DAMS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR AROUND THE SEWER AND UNDERDRAIN PIPELINES.
11. IF ALTERNATE MATERIALS (CONCRETE) OR SOIL AMENDED TRENCH DAMS ARE NECESSARY OR REQUIRED BY THE ENGINEER, THE DAMS SHALL BE EXTENDED A MINIMUM OF 6 FEET ABOVE THE PIPELINE BUT IN NO CASE CLOSER THAN 6" FROM THE SURFACE.

<div>Scale</div> <div>AS SHOWN</div> <div>29 of 44</div>	Drawn by LOG	<div>THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS</div> <div>UNDERDRAIN DETAILS</div>	<div><div>MERIDIAN RANCH</div></div>	<div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831</div> <div>TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>	1						
	Checked by TAK				2						
	Date MARCH 2020				3						
					4						
						No.	Revisions	Date	Instr.	Appr.	Date









NOTE:

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:

1)ESTATES FILING 2 AT MERIDIAN RANCH

2)ESTATES FILING 3 AT MERIDIAN RANCH

3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE


4)MERIDIAN RANCH FILING 9

5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS

6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD


7)THE ESTATES AT ROLLING HILLS RANCH FILING 1

8)ROLLING HILLS RANCH FILING 1



TWO WORKING DAYS  
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(SEE COVER FOR LIST OF UTILITY CONTACTS)

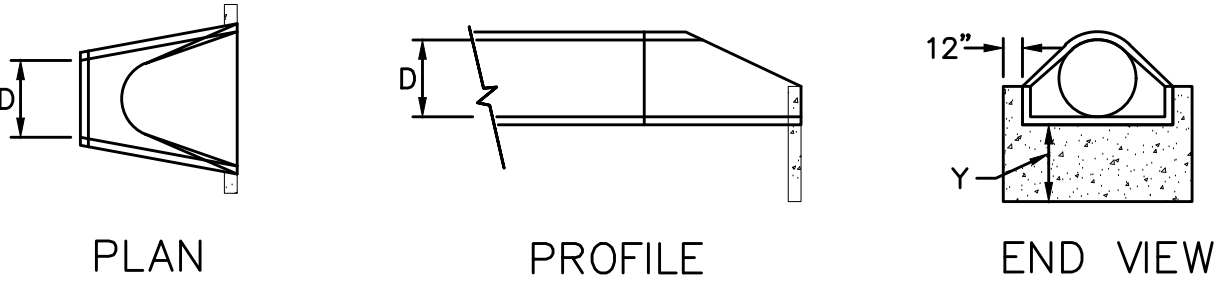


GRAPHIC SCALE

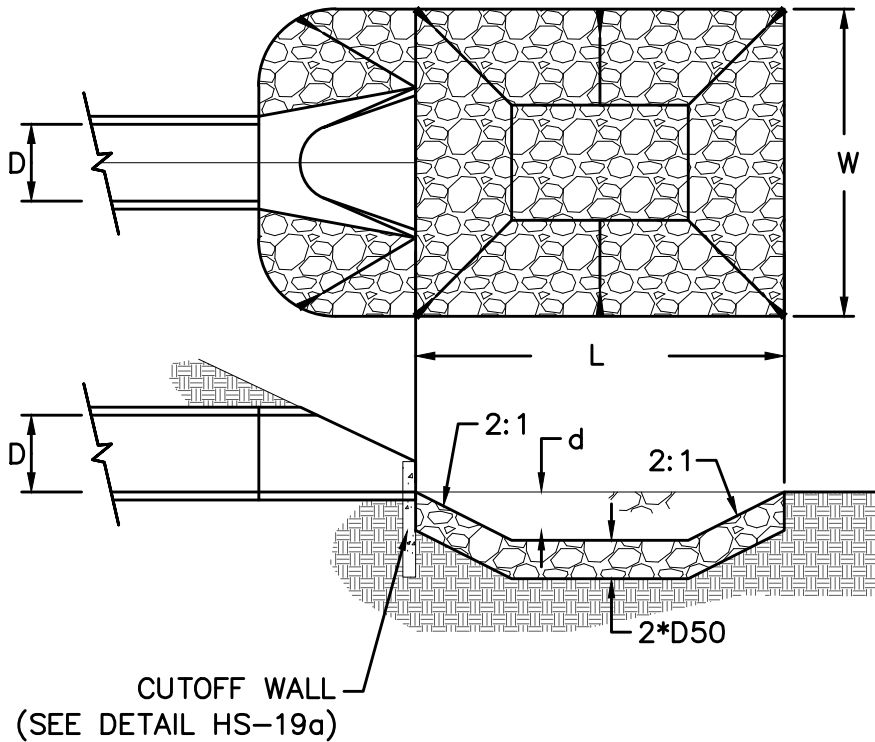
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( IN FEET )

1 inch = 150 ft.



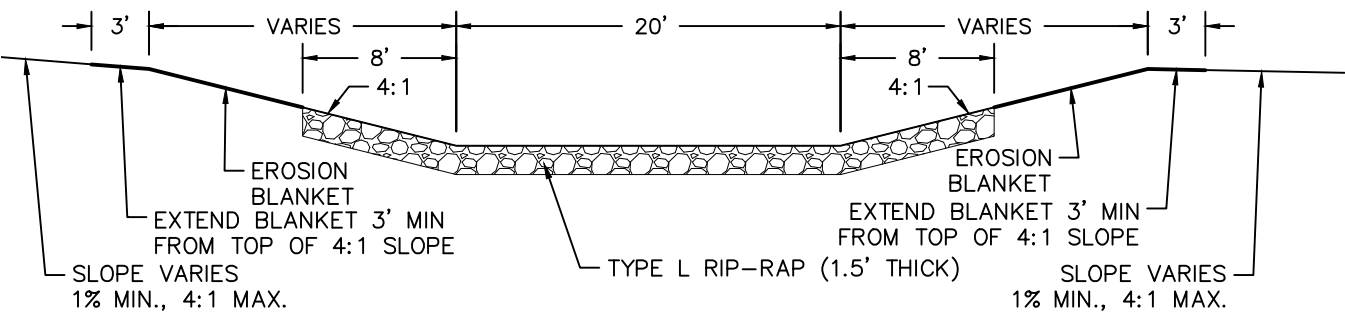
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
Figure HS-19a. Culvert Cutoff Wall




URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED\*)  
Figure HS-19. Culvert and Outlet Erosion Protection  
\*RIP RAP RECTANGULAR POOL

- NOTES:
1. Headwall with wingwalls or flared end section required at all culvert outlets.
2. Provide joint fasteners for flared end sections.

STORM #1 OUTLET PROTECTION DETAIL NTS								
	PIPE OUTLET	L	W	d	TYPE	D <sub>50</sub>	CY	Y
STORM #1	54"	20.0	20.0	2.25'	M	1.0'	37.3	4.0'
		NOTES SEE ABOVE						



CHANNEL RIP-RAP  
CROSS SECTION  
NTS

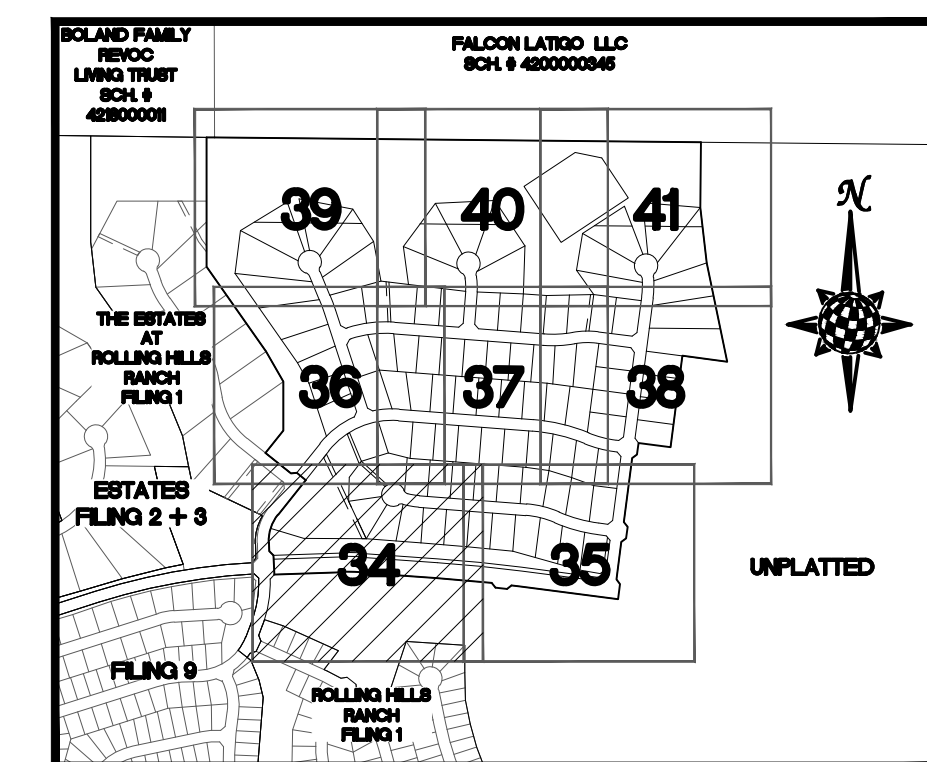
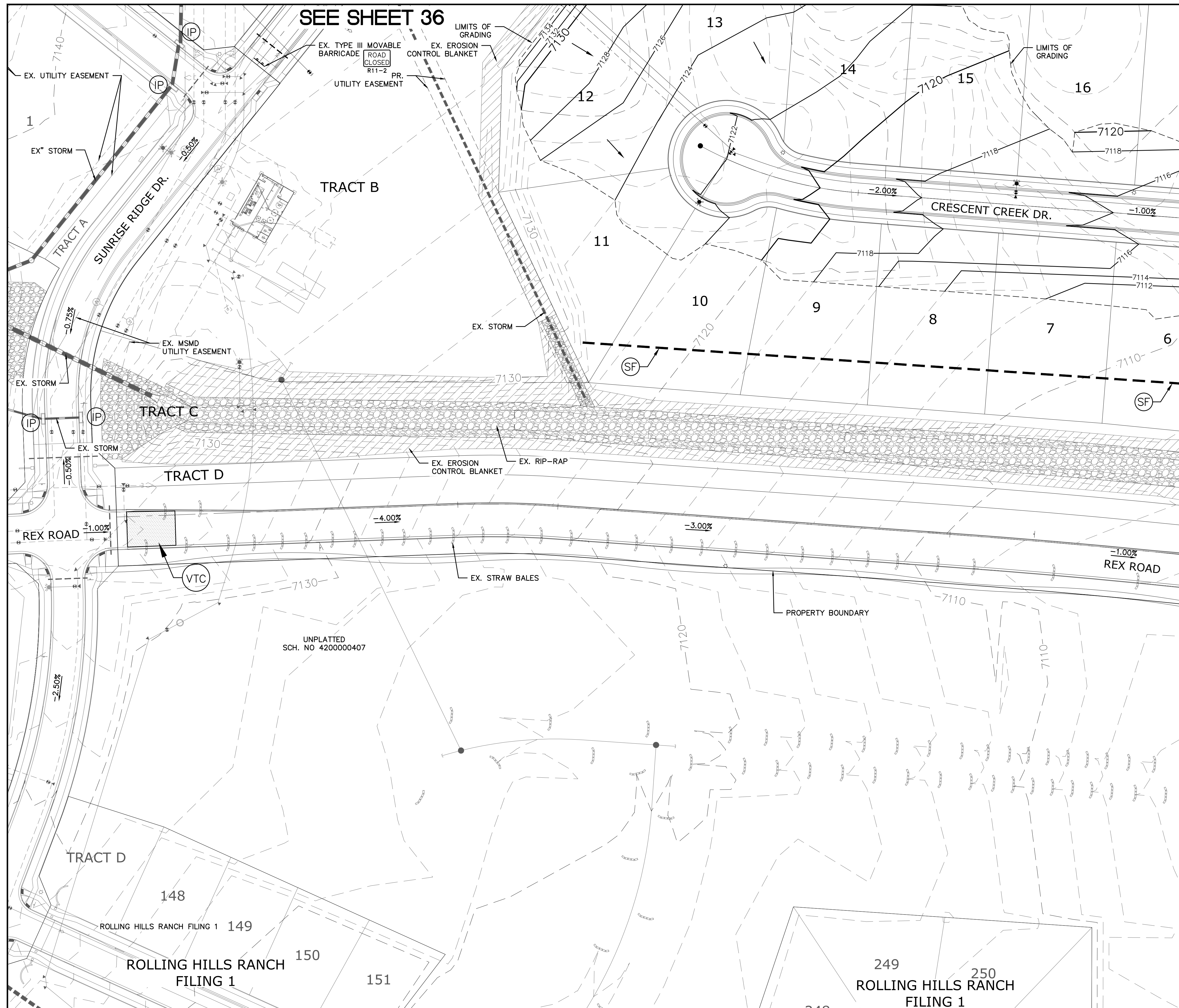
Date		Appr.		Date		Init.		Date		Revisions		No.	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457													
 <b>MERIDIAN RANCH</b>													
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS OVERALL STORM DRAIN													
Drawn by		Log		Checked by		TAK		Date		MARCH 2020			
Scale		AS SHOWN						32 of 44					



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 TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. 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 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 COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. CONTROL MEASURES 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 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 AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
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 VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS 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 EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
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 LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURES(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 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.
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 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 ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. AT LEAST TEN 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 MUST INCLUDE 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:

## PCD PROJECT NO. SF-XX-XX)




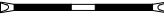



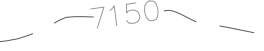





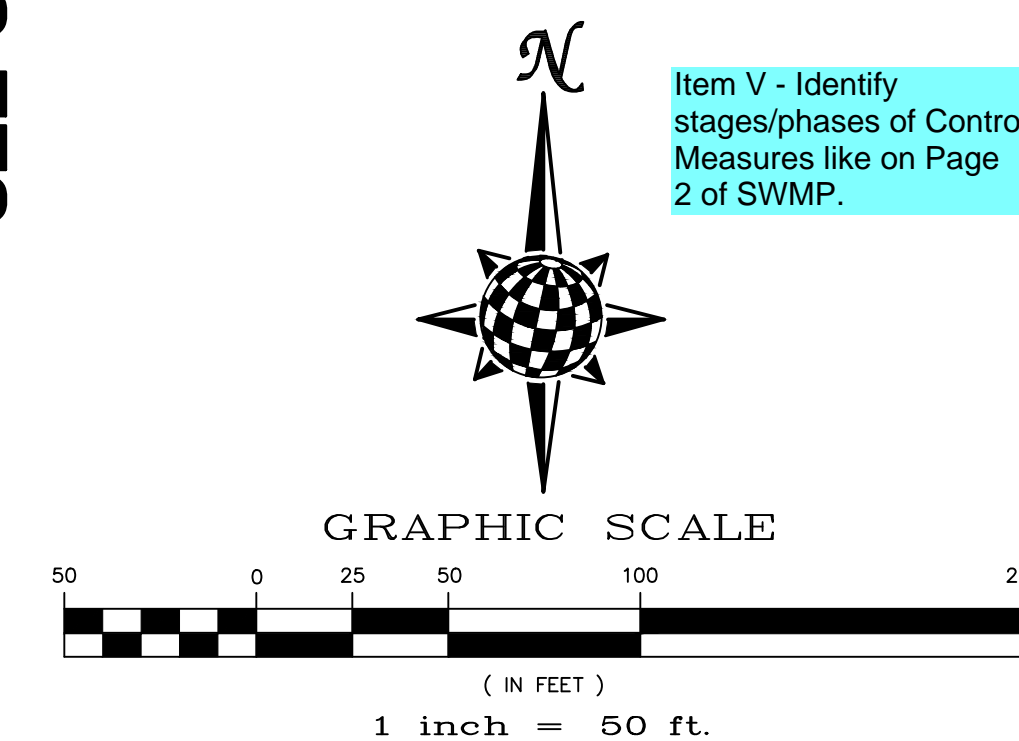


# INDEX MAP

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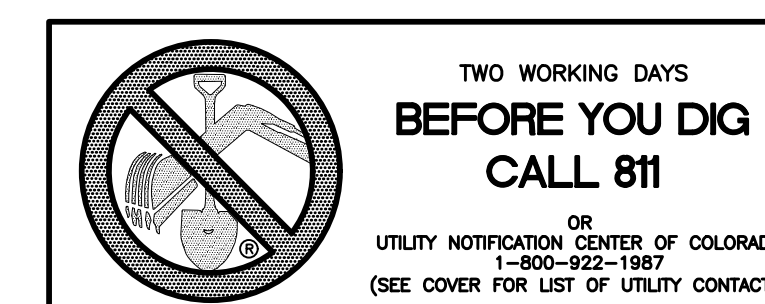
LEGEND


SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	(SF)	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	(VTC)	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	(IP)	INLET PROTECTION PER DETAIL SHEET 44
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER



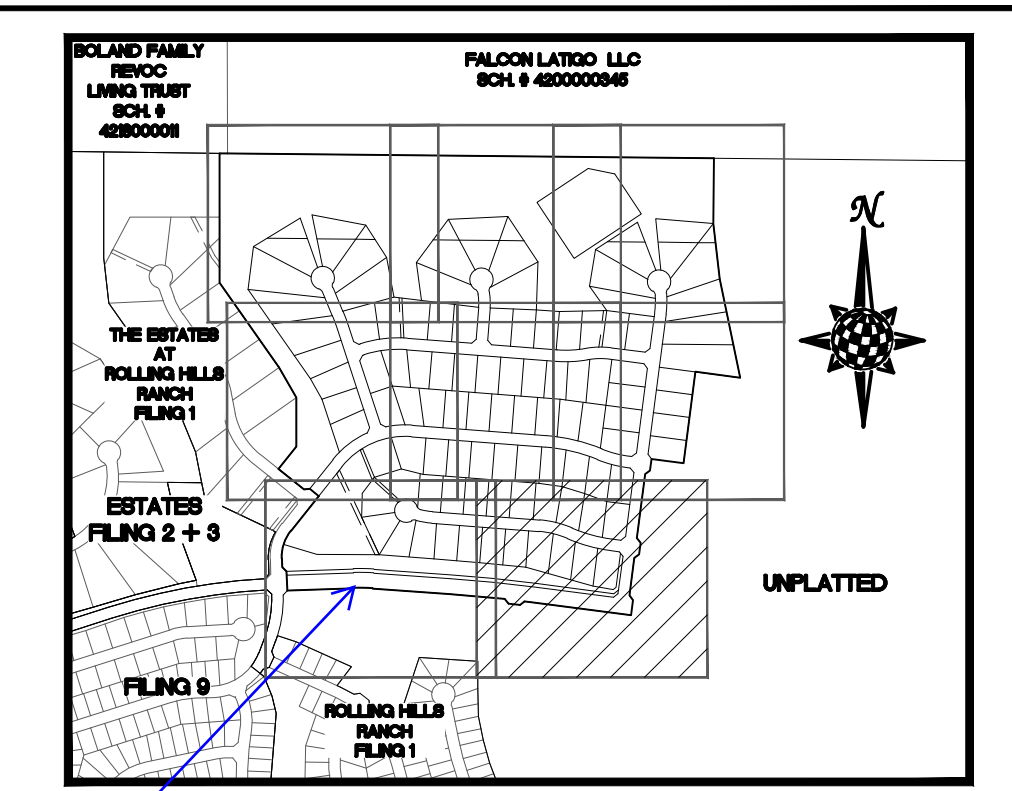
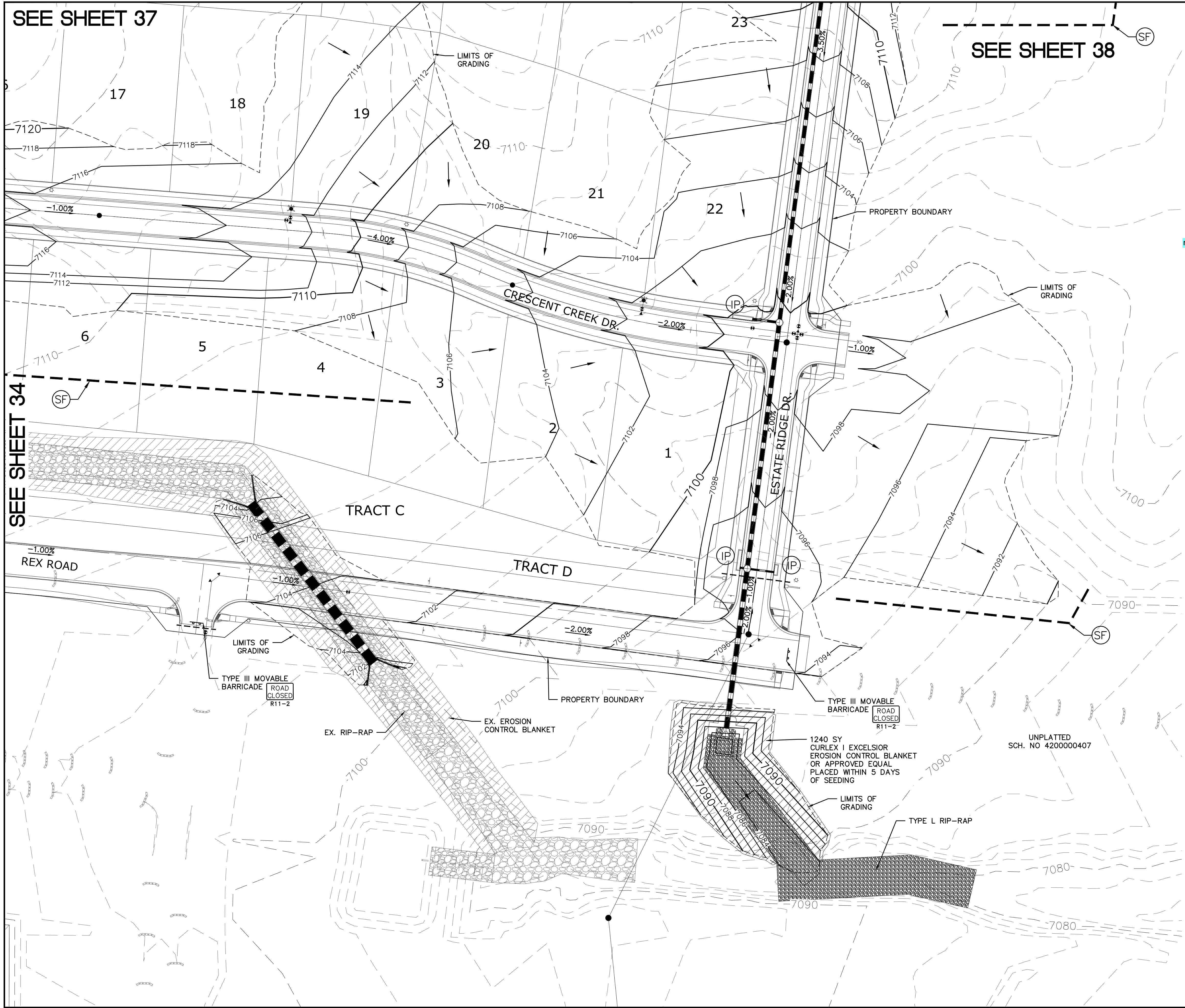
NOTE:  
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IN THEIR RESPECTIVE TYPICAL STREET SECTION  
SHOWN ON SHEET 43.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
4)MERIDIAN RANCH FILING 9  
5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD  
7)THE ESTATES AT ROLLING HILLS RANCH FILING 1  
8)ROLLING HILLS RANCH FILING 1



<div>Scale</div> <div>AS SHOWN</div>	Drawn by	<div>THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN</div> <div>GRADING LAYOUT</div>	<div></div> <div>MERIDIAN RANCH</div>	<div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>	1							
	Checked by				2							
	TAK				3							
	Date				4							
	34 of 44				No.	Revisions	Date	Init.	Appr.	Date		



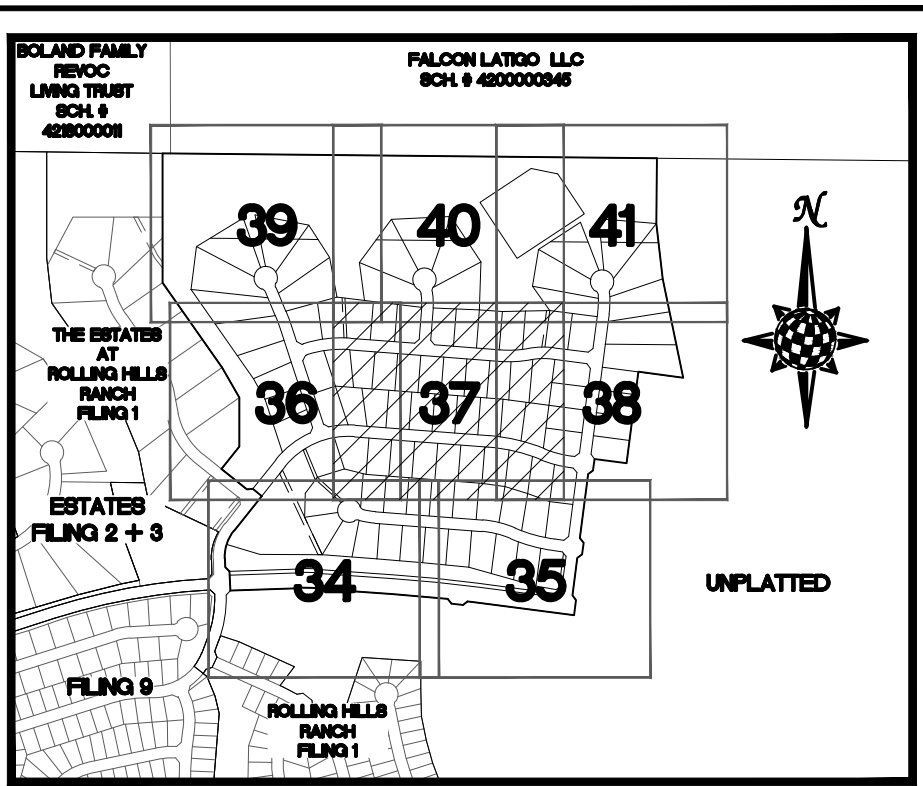
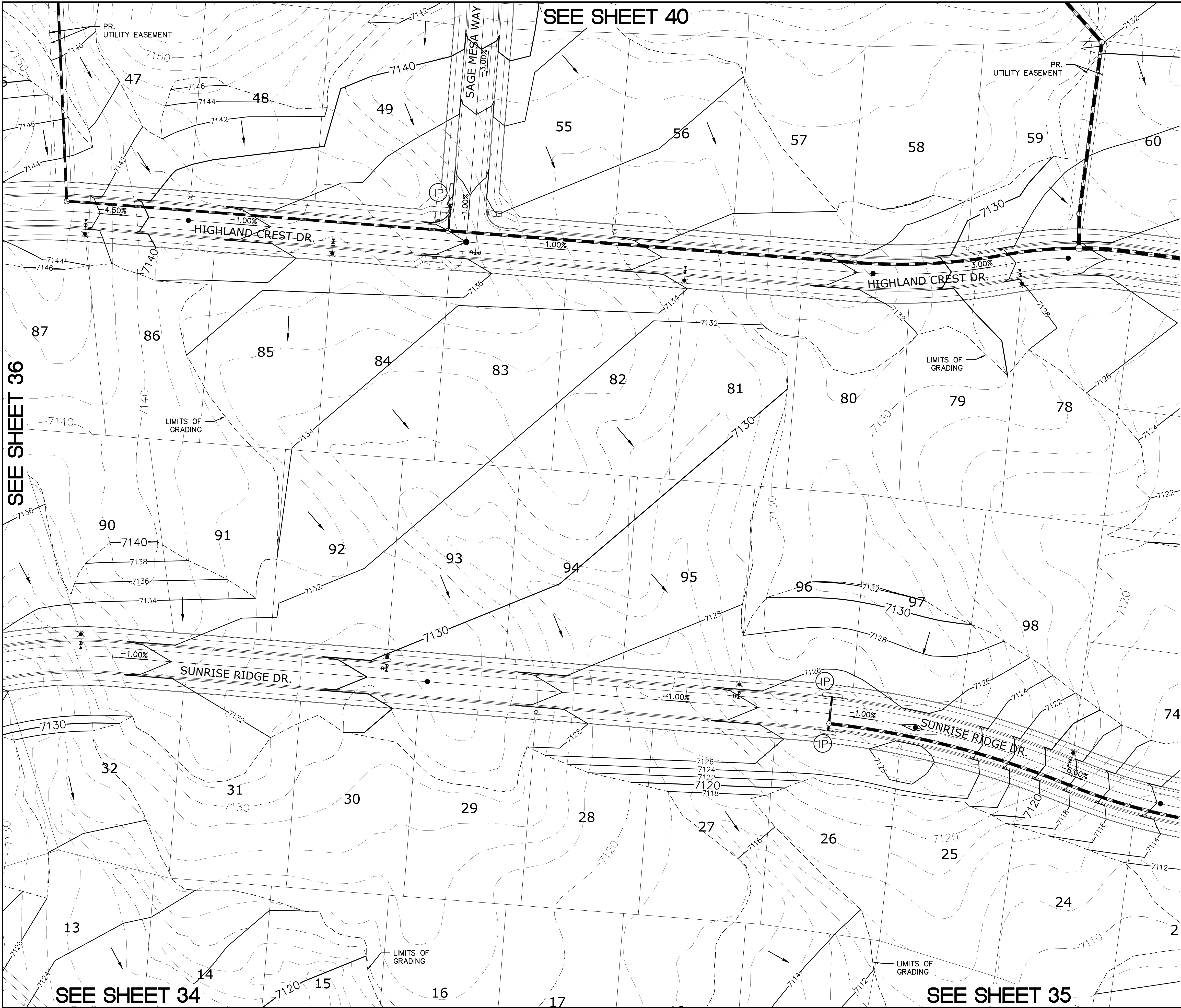


	Scale AS SHOWN	Drawn by	Loc	THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING+EROSION CONTROL PLAN  GRADING LAYOUT	 <b>MERIDIAN RANCH</b>	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				1				
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	35 of 44	Date	JULY 2020			3								
						4								
						No.	Revisions	Date	Init.	Appr.	Date			





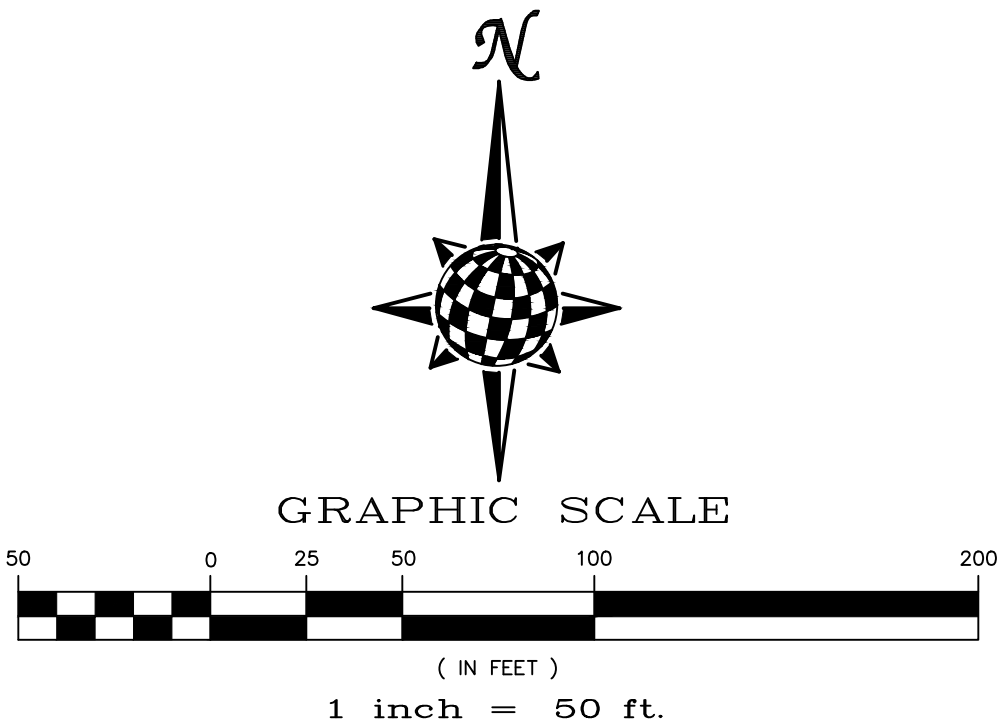




INDEX MAP  
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
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		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER

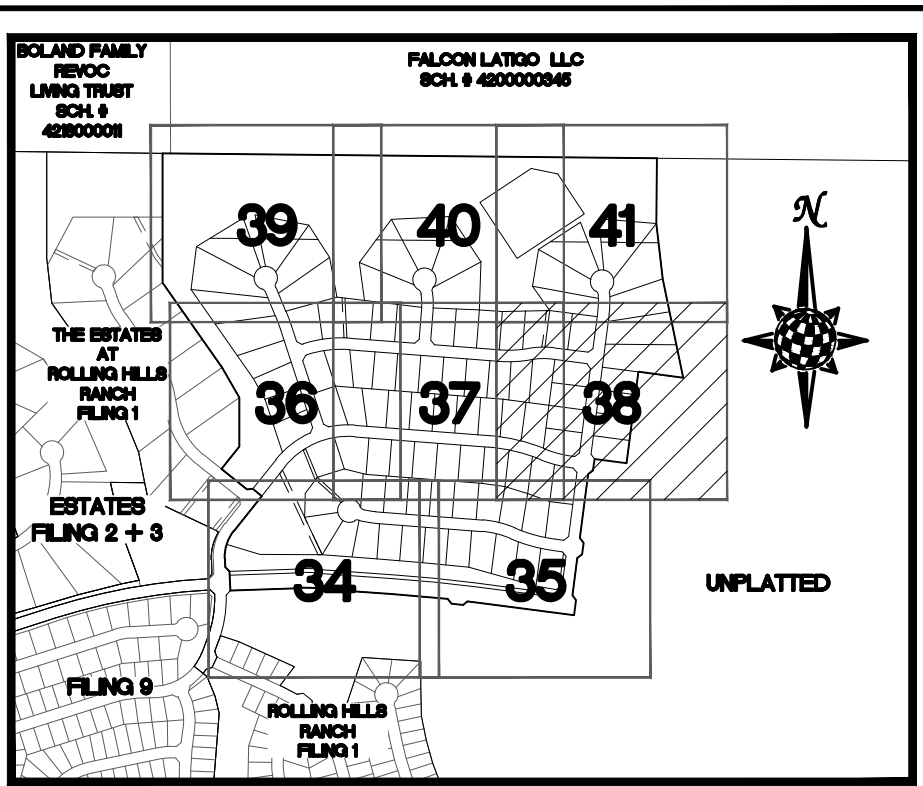
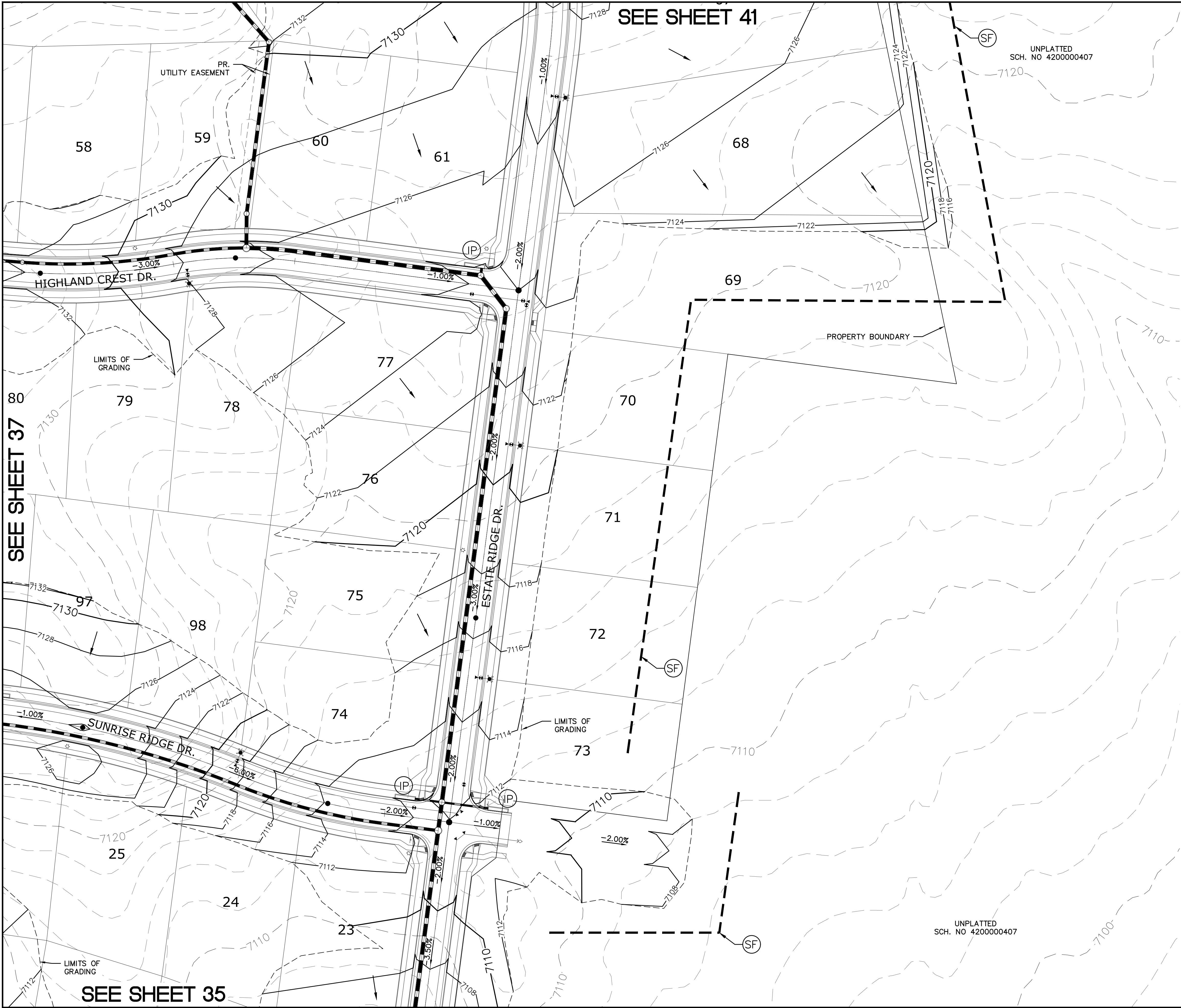


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8)ROLLING HILLS RANCH FILING 1

TWO WORKING DAYS  
**BEFORE YOU DIG  
CALL 811**  
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

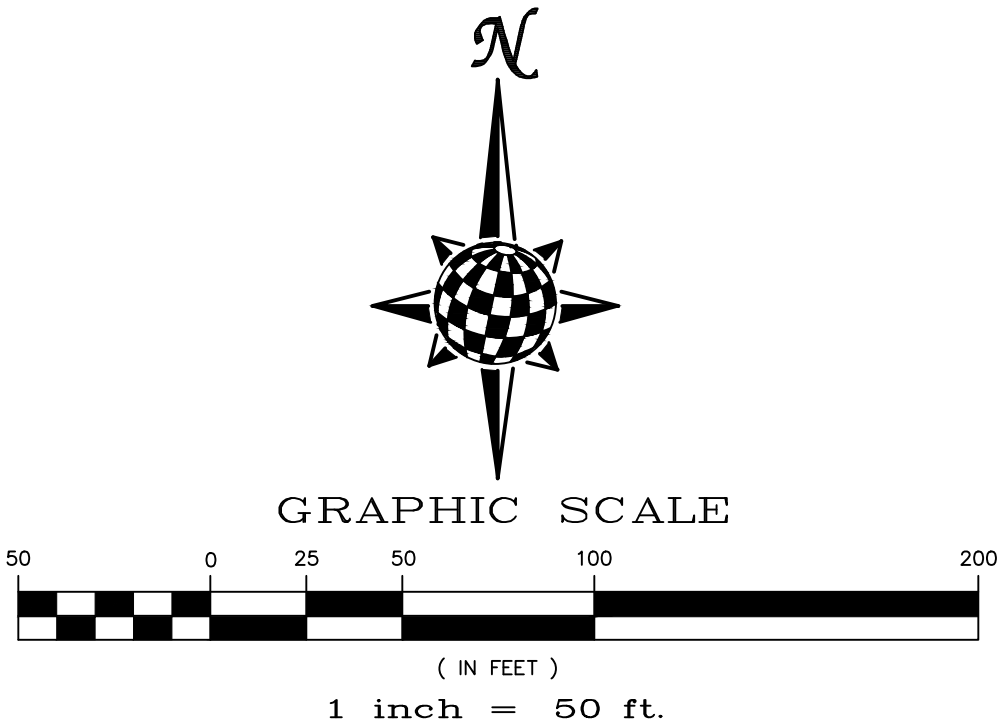
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No.	Date	Init.	Appr.	Date	Appr.
1					
2					
3					
4					
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457					
MERIDIAN RANCH					
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING-EROSION CONTROL PLAN					
GRADING LAYOUT					
Scale	Drawn by	Loc	Checked by	TAK	Date
AS SHOWN					JULY 2020
37 of 44					



INDEX MAP  
N.T.S.

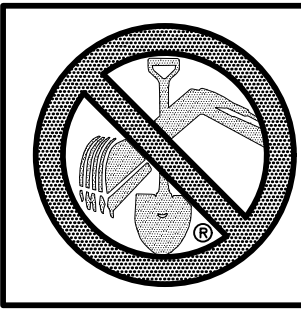
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SYMBOL	ACRONYM	DESCRIPTION
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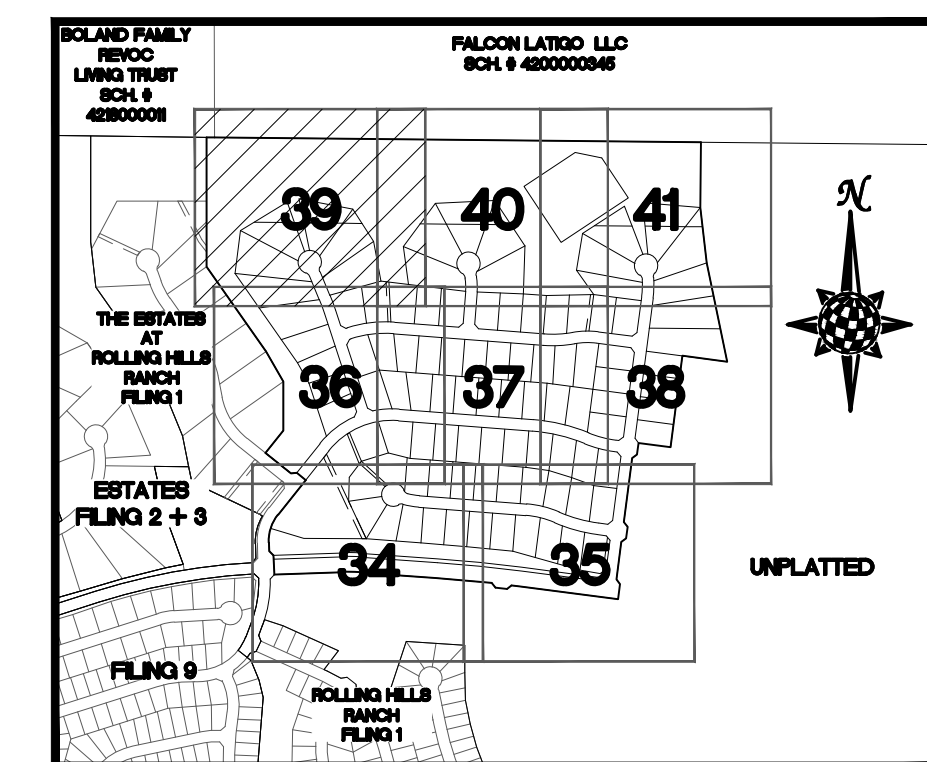
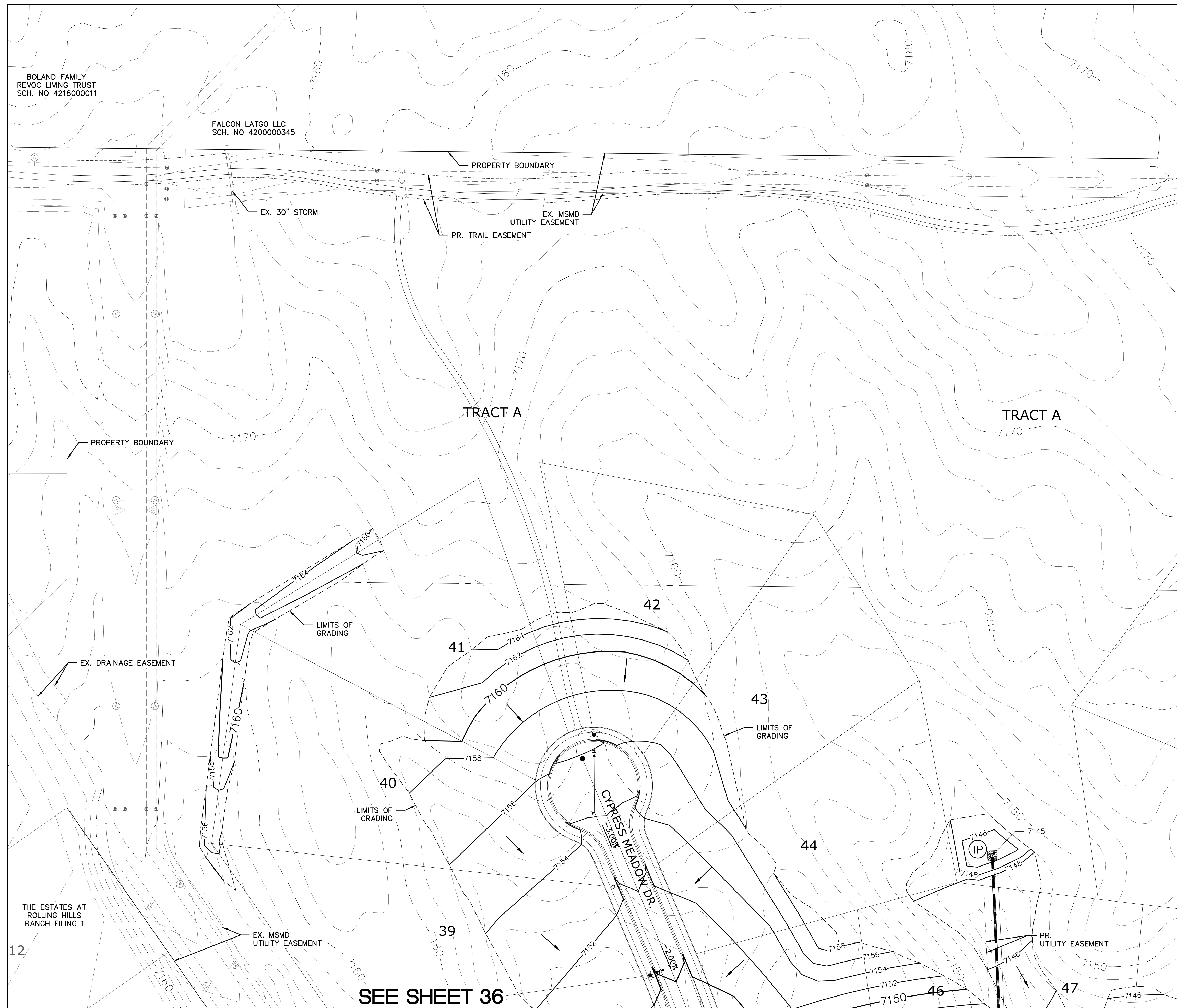
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				Revisions
1	2	3	4	No.
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GRADING LAYOUT				
Drawn by	Log	Checked by	TAK	Date
AS SHOWN				JULY 2020
Scale	38 of 44			










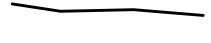


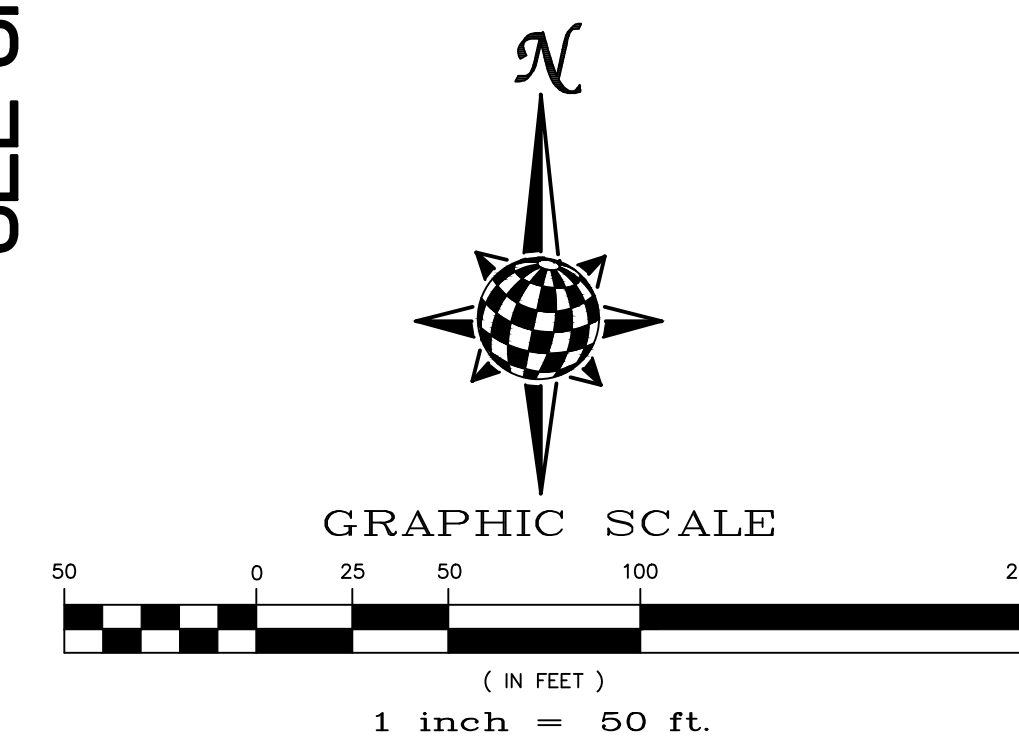


# INDEX MAP

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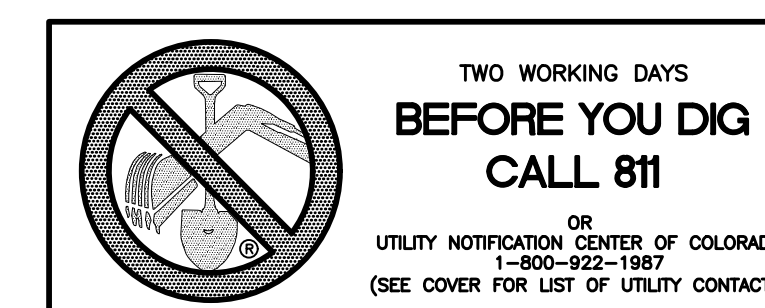
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Revisions					
	Date	Initi.	Appr.	Date	
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	*				
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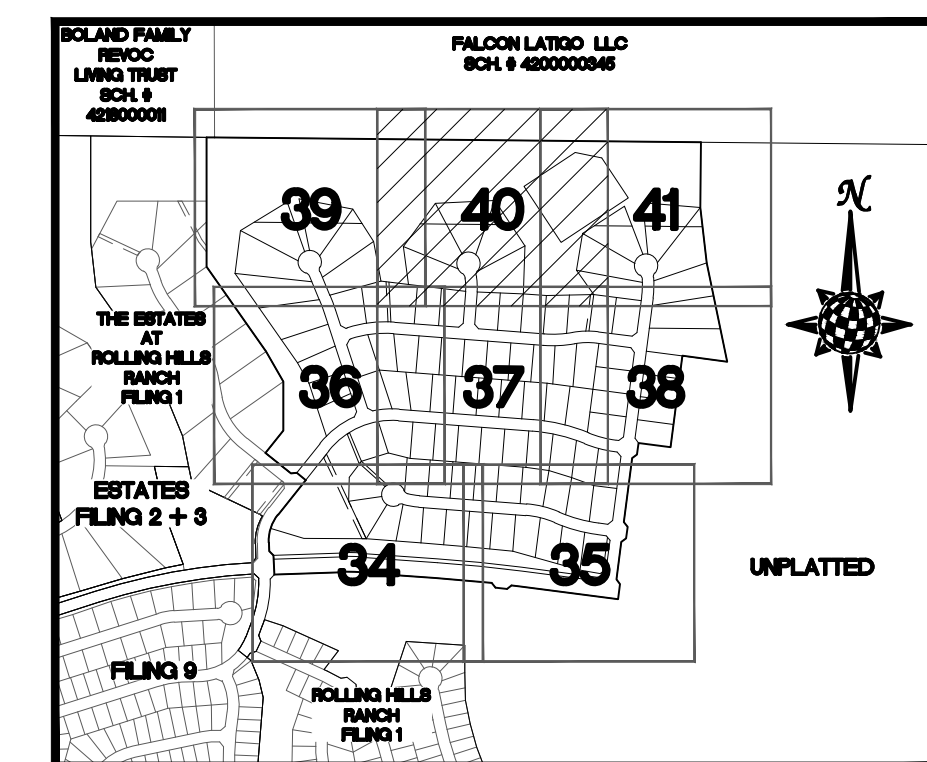
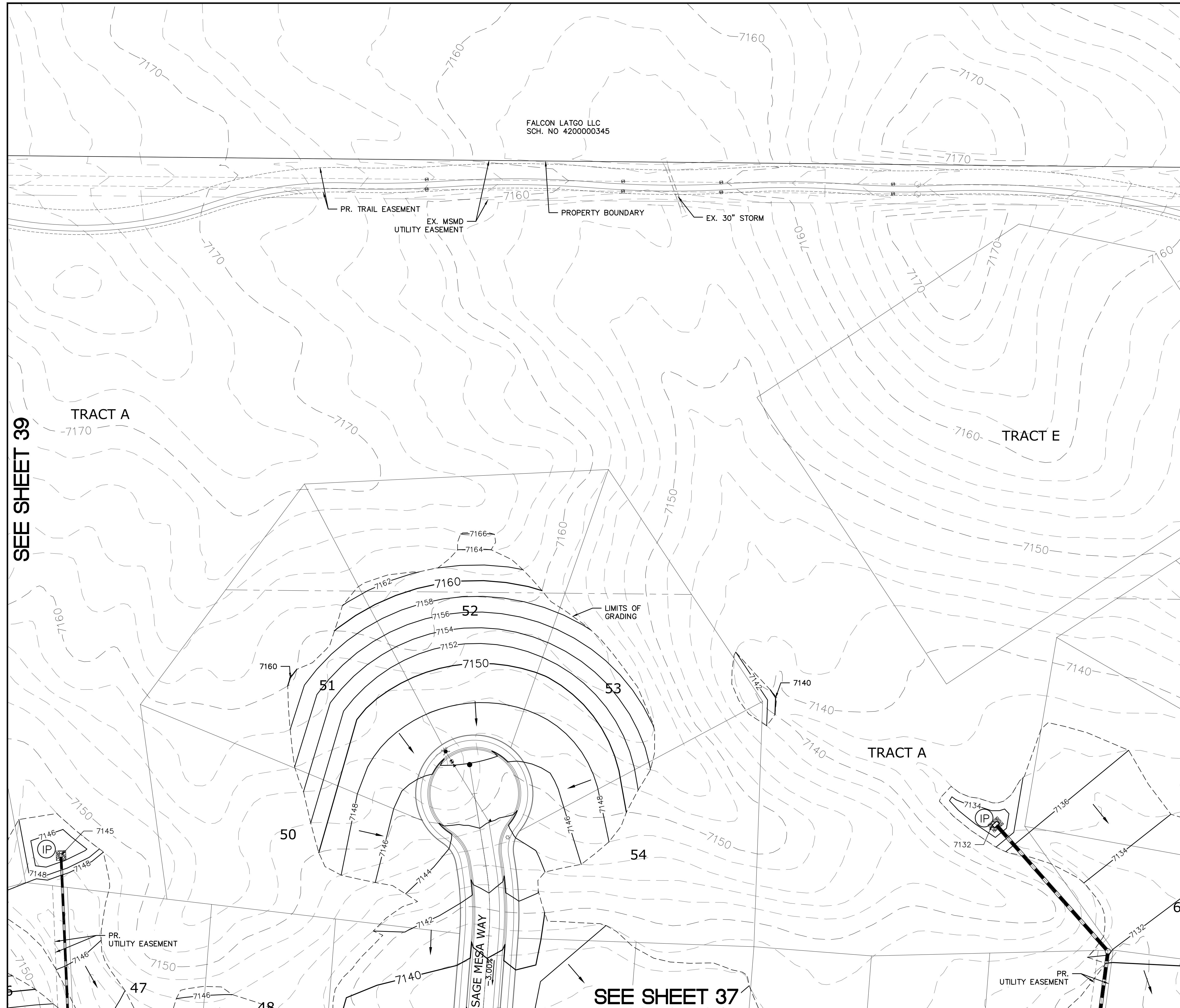
1	<p><b>TECH CONTRACTORS</b>  <b>11886 STAPLETON DRIVE</b>  <b>FALCON, CO 80831</b></p> <p>TELEPHONE: 719.495.7444  FAX: 719.495.2457</p>
2	
3	
4	
<b>No.</b>	



 MERIDIAN RANCH

THE ESTATES AT  
ROLLING HILLS RANCH FILING 2  
GRADING+EROSION CONTROL PLAN  
GRADING LAYOUT









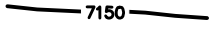

Scale <b>AS SHOWN</b>	<i>Drawn by</i> Log
	<i>Checked by</i> TAK
	<i>Date</i> JULY 2020

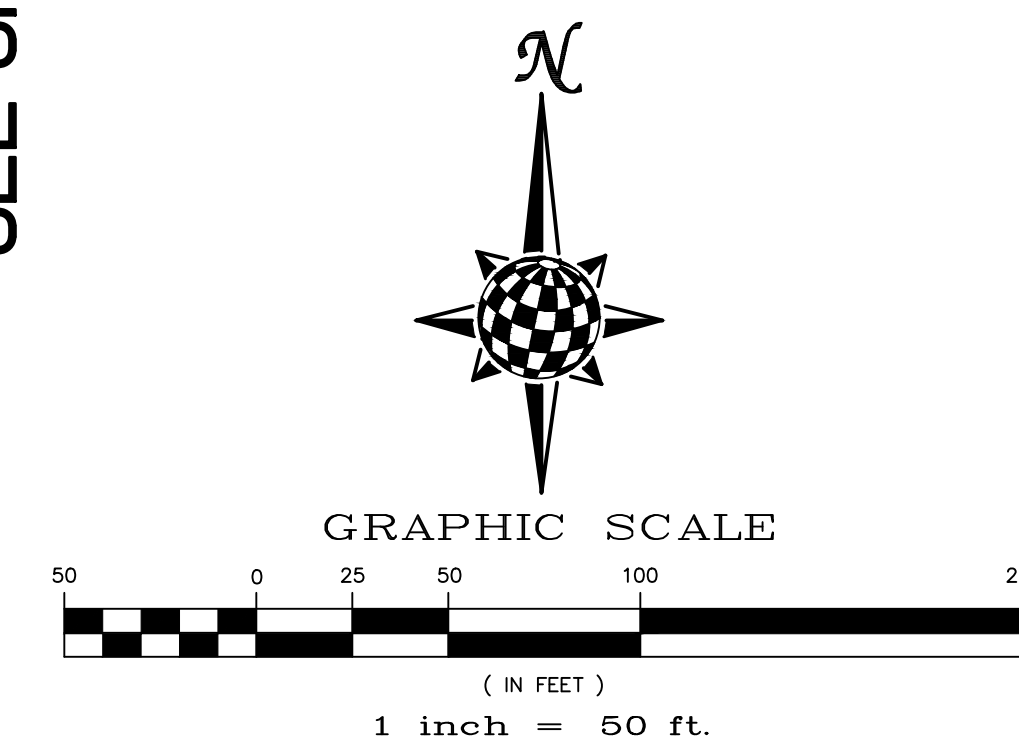


# INDEX MAP

## N.T.S.

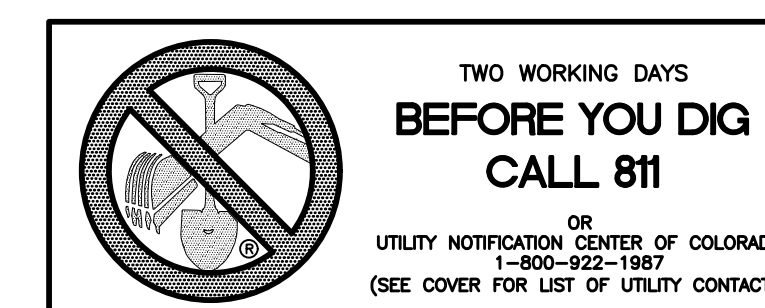
LEGEND

<u>SYMBOL</u>	<u>ACRONYM</u>	<u>DESCRIPTION</u>
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	(SF)	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	(VTC)	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	(IP)	INLET PROTECTION PER DETAIL SHEET 44
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER



NOTE:  
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE  
TO FINISHED SURFACE. ALL STREET SECTIONS ARE  
TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN  
IN THEIR RESPECTIVE TYPICAL STREET SECTION  
SHOWN ON SHEET 43.

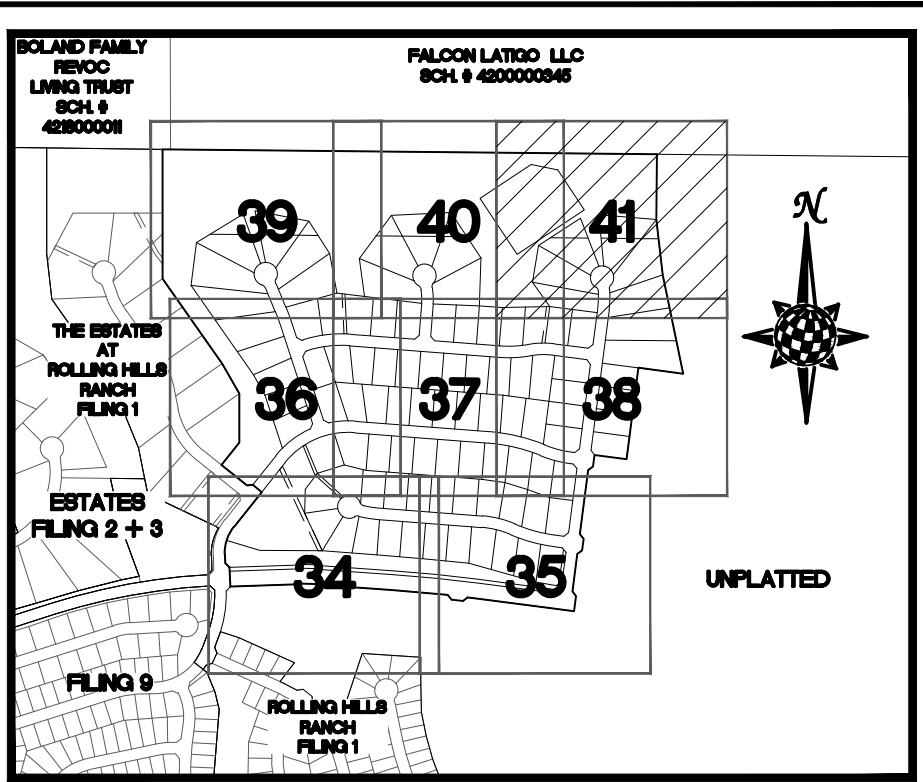
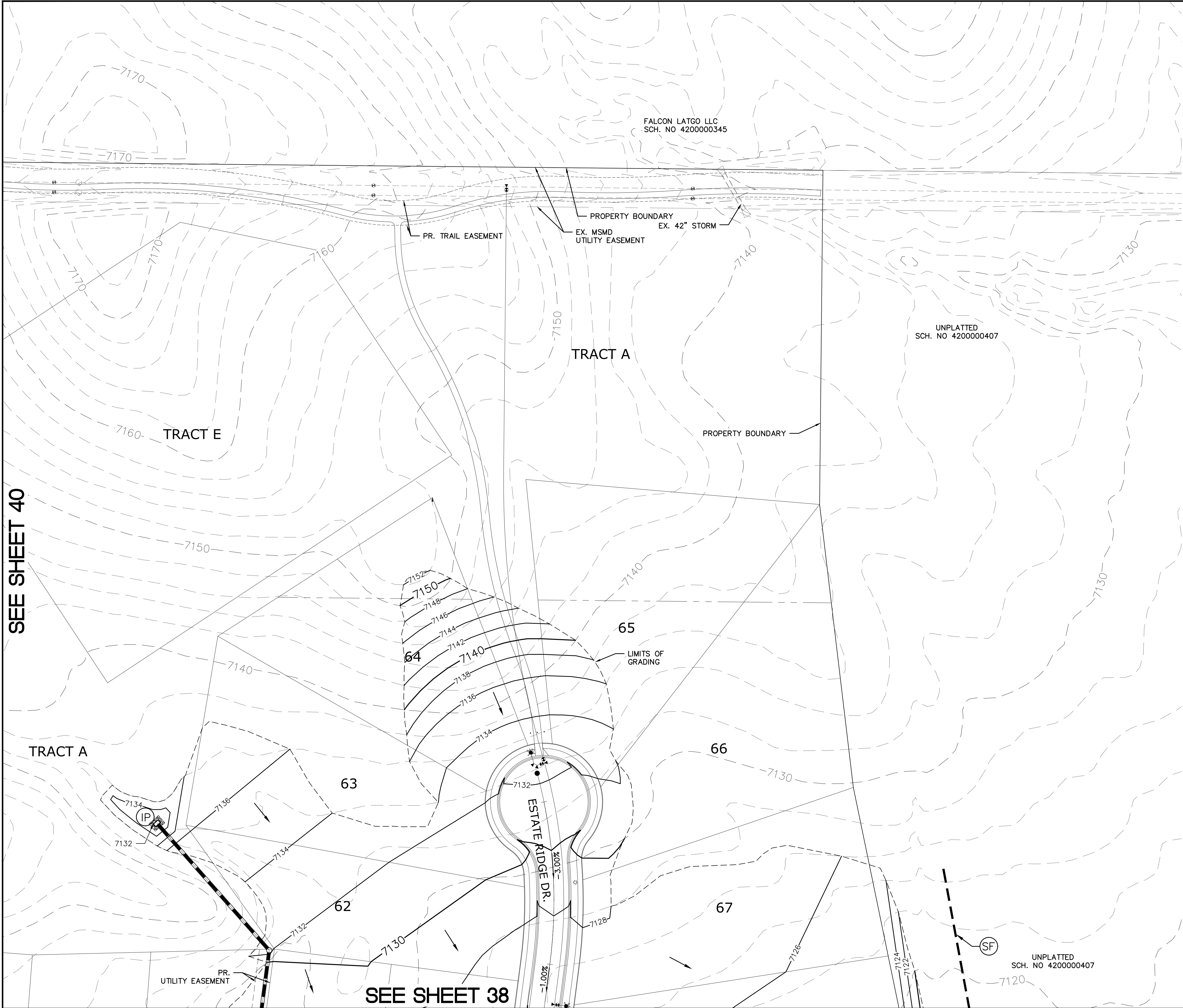
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
4)MERIDIAN RANCH FILING 9  
5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD  
7)THE ESTATES AT ROLLING HILLS RANCH FILING 1  
8)ROLLING HILLS RANCH FILING 1



Scale AS SHOWN 40 of 44	Drawn by Log	THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING-EROSION CONTROL PLAN GRADING LAYOUT		TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	-			
	Checked by TAK				2	-			
	Date JULY 2020				3	-			
					4	-			



SEE SHEET 40

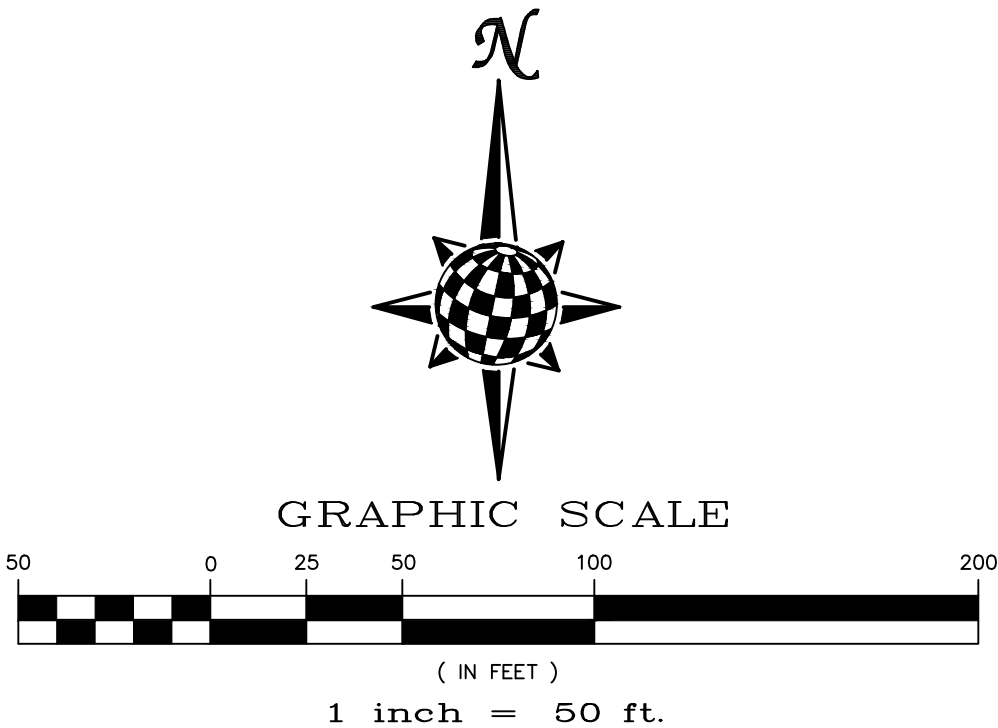


## INDEX MAP

N.T.S.


### LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
		RCP REINFORCED CONCRETE PIPE
	(SF)	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	(VTC)	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	(IP)	INLET PROTECTION PER DETAIL SHEET 44
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER



NOTE:  
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 43.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
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4)MERIDIAN RANCH FILING 9  
5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD  
7)THE ESTATES AT ROLLING HILLS RANCH FILING 1  
8)ROLLING HILLS RANCH FILING 1



TWO WORKING DAYS  
**BEFORE YOU DIG  
CALL 811**

OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-822-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

Revisions				Date	Init.	Appr.	Date
1	2	3	4	No.			
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457							
MERIDIAN RANCH							
THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING/EROSION CONTROL PLAN GRADING LAYOUT							
Drawn by	Log	Checked by	TAK	Date	JULY 2020		
Scale	AS SHOWN			41 of 44			







