

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

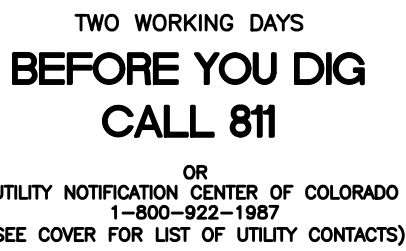
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING COMPLETELY ACCURATE. THE CONTRACTOR SHALL AT THE LOCAL UTILITY LOCATION ENTER AT LEAST 24 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.

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 20 AND 29,
IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY
DESCRIBED AS FOLLOWS:

2. THENCE N15°53'30"W ON SAID TRACT LINE A DISTANCE OF 26.13 FEET TO A CURVE TO THE RIGHT;
3. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 330.00 FEET, A DELTA ANGLE OF 0°41'46", AN ARC LENGTH OF 27.05 FEET, WHOSE LONG CHORD BEARS N35°45'37"E A DISTANCE OF 27.04 FEET;
4. THENCE N72°56'20"E A DISTANCE OF 32.99 FEET;
5. THENCE N24°30'35"E A DISTANCE OF 60.00 FEET;
6. THENCE N22°23'52"W A DISTANCE OF 32.06 FEET;
7. THENCE N20°49'43"E A DISTANCE OF 52.81 FEET TO A CURVE TO THE LEFT;
8. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 630.00 FEET, A DELTA ANGLE OF 0°30'56", AN ARC LENGTH OF 33.71 FEET, WHOSE LONG CHORD BEARS N191°7'45"E A DISTANCE OF 33.70 FEET;
9. THENCE S72°41'13"E A DISTANCE OF 102.16 FEET;
10. THENCE S65°37'27"E A DISTANCE OF 315.00 FEET;
11. THENCE S37°21'44"W A DISTANCE OF 123.15 FEET;
12. THENCE S65°37'27"E A DISTANCE OF 20.18 FEET TO A CURVE TO THE RIGHT;
13. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 580.00 FEET, A DELTA ANGLE OF 0°75'02"E, AN ARC LENGTH OF 79.44 FEET, WHOSE LONG CHORD BEARS S61°42'00"E A DISTANCE OF 79.38 FEET;
14. THENCE N80°20'11"E A DISTANCE OF 32.19 FEET;
15. THENCE S52°38'16"E A DISTANCE OF 60.00 FEET;
16. THENCE S05°36'43"E A DISTANCE OF 32.19 FEET TO A NON-TANGENT CURVE TO THE RIGHT;
17. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 580.00 FEET, A DELTA ANGLE OF 0°42'05", AN ARC LENGTH OF 98.21 FEET, WHOSE LONG CHORD BEARS S42°38'56"E A DISTANCE OF 98.09 FEET;
18. THENCE N52°12'07"E A DISTANCE OF 140.63 FEET;
19. THENCE N18°34'24"E A DISTANCE OF 254.62 FEET;
20. THENCE S86°03'00"E A DISTANCE OF 305.00 FEET;
21. THENCE S00°21'17"W A DISTANCE OF 140.80 FEET;
22. THENCE S05°56'41"E A DISTANCE OF 270.12 FEET;
23. THENCE S19°52'22"E A DISTANCE OF 357.93 FEET;
24. THENCE S32°36'03"E A DISTANCE OF 70.02 FEET;
25. THENCE S31°18'00"E A DISTANCE OF 60.00 FEET;
26. THENCE S36°17'59"E A DISTANCE OF 267.98 FEET;
27. THENCE S51°02'42"E A DISTANCE OF 252.48 FEET;
28. THENCE S44°03'58"E A DISTANCE OF 132.26 FEET;
29. THENCE S49°29'46"W A DISTANCE OF 137.49 FEET TO A NON-TANGENT CURVE TO THE RIGHT;
30. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 730.00 FEET, A DELTA ANGLE OF 0°45'05", AN ARC LENGTH OF 86.02 FEET, WHOSE LONG CHORD BEARS S40°41'16"E A DISTANCE OF 85.97 FEET;
31. THENCE S37°18'43"E A DISTANCE OF 12.18 FEET;
32. THENCE S82°18'43"E A DISTANCE OF 31.11 FEET;
33. THENCE S37°18'43"E A DISTANCE OF 60.00 FEET;
34. THENCE S07°41'17"W A DISTANCE OF 31.11 FEET;
35. THENCE S37°18'43"E A DISTANCE OF 196.00 FEET;
36. THENCE S82°18'43"E A DISTANCE OF 31.11 FEET;
37. THENCE S37°18'43"E A DISTANCE OF 60.00 FEET;
38. THENCE S07°41'17"W A DISTANCE OF 31.11 FEET;
39. THENCE S37°18'43"E A DISTANCE OF 5.00 FEET TO A CURVE TO THE RIGHT;
40. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 430.00 FEET, A DELTA ANGLE OF 1°19'10", AN ARC LENGTH OF 143.97 FEET, WHOSE LONG CHORD BEARS S27°43'13"E A DISTANCE OF 143.30 FEET TO A REVERSE CURVE;
41. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 470.00 FEET, A DELTA ANGLE OF 1°19'10", AN ARC LENGTH OF 157.37 FEET, WHOSE LONG CHORD BEARS S27°43'13"E A DISTANCE OF 156.63 FEET;

QUARTER OF BEARINGS FOR THIS DESCRIPTION IS THE SOUTH LINE OF THE SOUTHWEST
QUARTER OF SECTION 29, T12S, R64W OF THE 6TH P.M., WHICH IS ASSUMED TO BEAR
S89°25'42"E FROM THE SOUTHWEST CORNER OF SECTION 29 (A STONE W/SCRIBED "X")
TO THE SOUTH QUARTER CORNER OF SECTION 29 (3.25" ALUM. CAP LS 30087).



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.



SHEET NO	SHEET INDEX	SHEET NO	SHEET INDEX
1	COVER SHEET	18–19	EVENING CREEK DR.
2	INDEX SHEET	20	CUATRO CAMINOS DR.
3	NOTES SHEET	21	FUTURE MONUMENT VISTA DR. & SS #2
4–5	DETAIL SHEET		
6	LAMBERT RD. & STORM #4	22	SIGNAGE AND STRIPING
7–9	ROLLING PEAKS DR.	23–24	SIDEWALK PLAN
10	ROLLING PEAKS DR. & FUT. WOODS GROVE DR.	25	OVERALL SANITARY SEWER
		26	OVERALL SANITARY SEWER SERVICES
11	VALLEY PEAK DR. & BRIDGE WAY	27	OVERALL UNDERDRAIN
12	SUMMER RIDGE DR.	28	UNDERDRAIN DETAILS
13	SUMMER RIDGE DR. & STORM #3	29	OVERALL WATER
		30	OVERALL WATER SERVICES
14	CROOKED HILL DR. & STORM #1	31	OVERALL STORM DRAIN
		31	GRADING INDEX SHEET
15	PARKLAND DR.	33–40	GRADING LAYOUT
16–17	ROLLING MESA DR.	41–42	GRADING DETAIL SHEET

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 COUNTY ORDINANCES, RULES AND REGULATIONS, AND THE STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF PUBLIC HIGHWAYS AND BRIDGES. 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

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

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

DAVID A PELSER, GENERAL MANAGER
MERIDIAN SERVICE METROPOLITAN DISTRICT

1) MRRC1 - 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 LONDON DERRY 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'

DEVELOPERS STATEMENT:

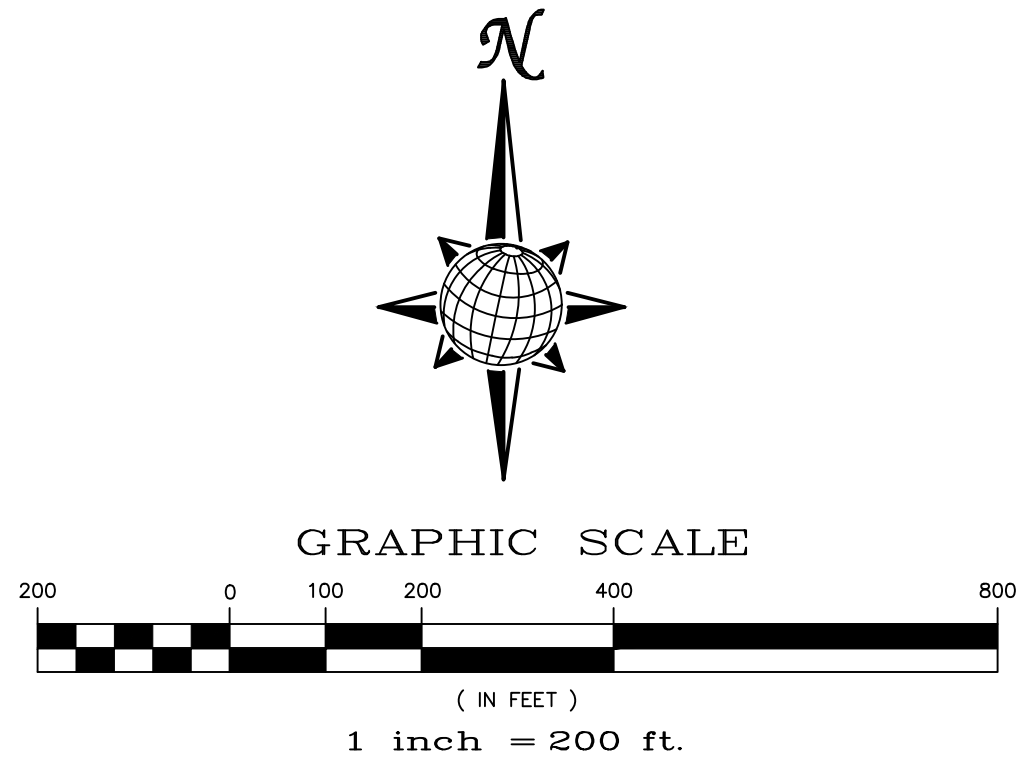
THE UNDERSIGNED DEVELOPER HAS READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE CONSTRUCTION PLANS AND THE ACCOMPANYING DRAINAGE REPORT.

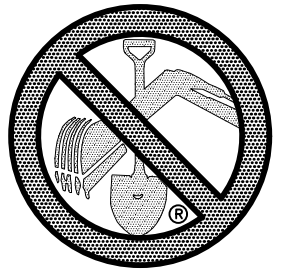
OWNERS STATEMENT:

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.

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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)

Cul-de-sac exceeds the maximum length of 750.
Deviation request should be submitted with the
PUDSP application.

Scale AS SHOWN	Drawn by LCS	Checked by TAK	Date NOV 2019	ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS INDEX SHEET				 MERIDIAN RANCH		TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457		1 2 3 4 No.		Revisions		Date	Init.	Appr.	Date
				2 of 42															

GENERAL NOTES

- ## SANITARY SEWER NOTES

- WHEN A RESIDENTIAL SEWER SERVICE IS INSTALLED ON AN EXISTING SEWER MAIN A DOUBLE STRAP STAINLESS STEEL SADDLE TIE SHALL BE USED. THE SADDLE TIE, 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 EQUAL 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 THE 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 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 SIDR-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 747018-33 FOR SDR HDPE SAME SIZE AS THE WATER SERVICE. ALL CURB STOP VALVES SHALL BE 2" 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 3/4" 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 3/4" UNLESS OTHERWISE NOTED ON THE PLANS. ALL 1" DIAMETER WATER SERVICE SHALL RECEIVE A 1" INLET BY 3/4" 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 OPEN RIGHT WITH A 1 1/2" 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 1/2" NST (NATIONAL STANDARD THREAD) SIDE NOZZLES.
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.
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**TWO WORKING DAYS
BEFORE YOU DIG
CALL 811**

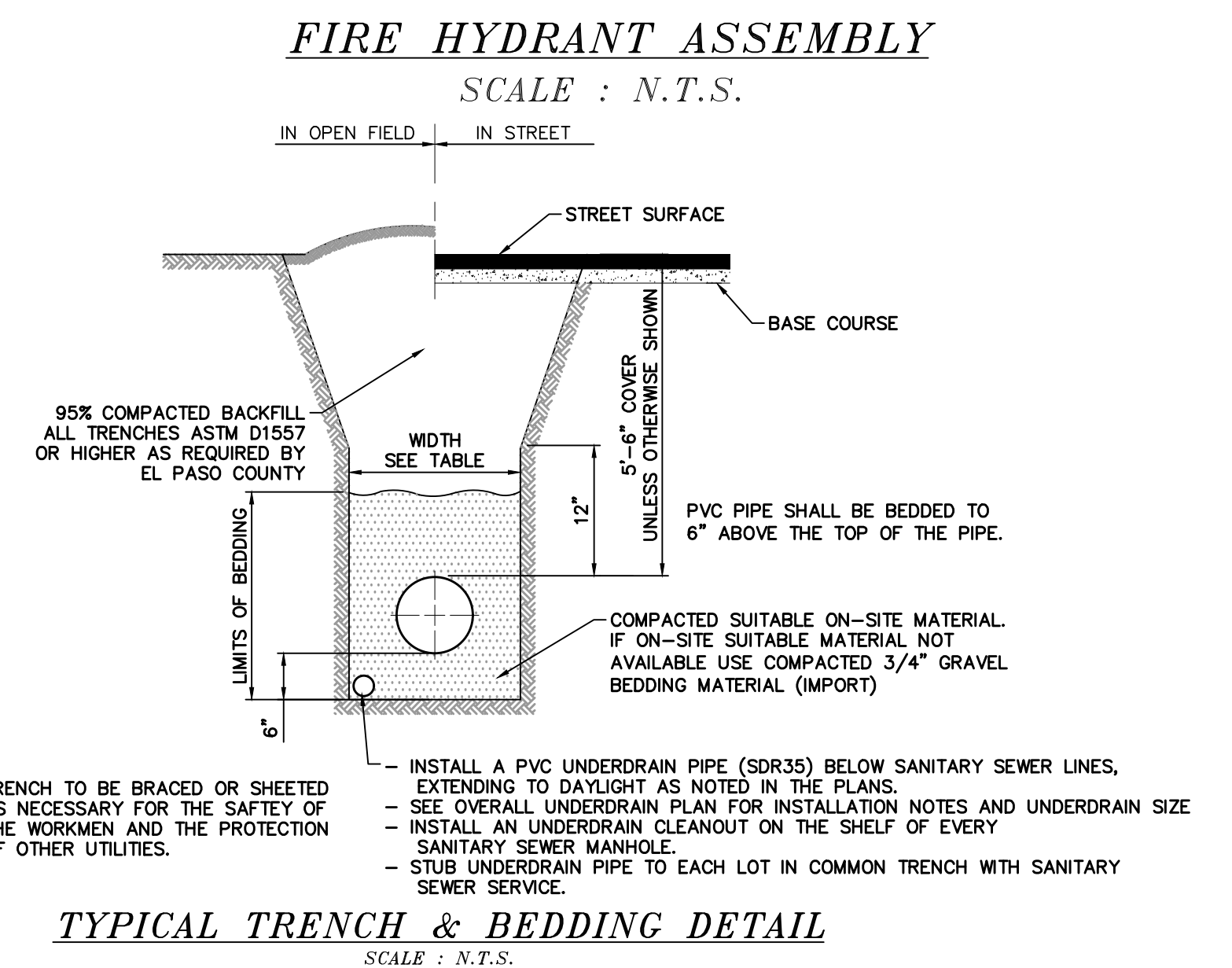
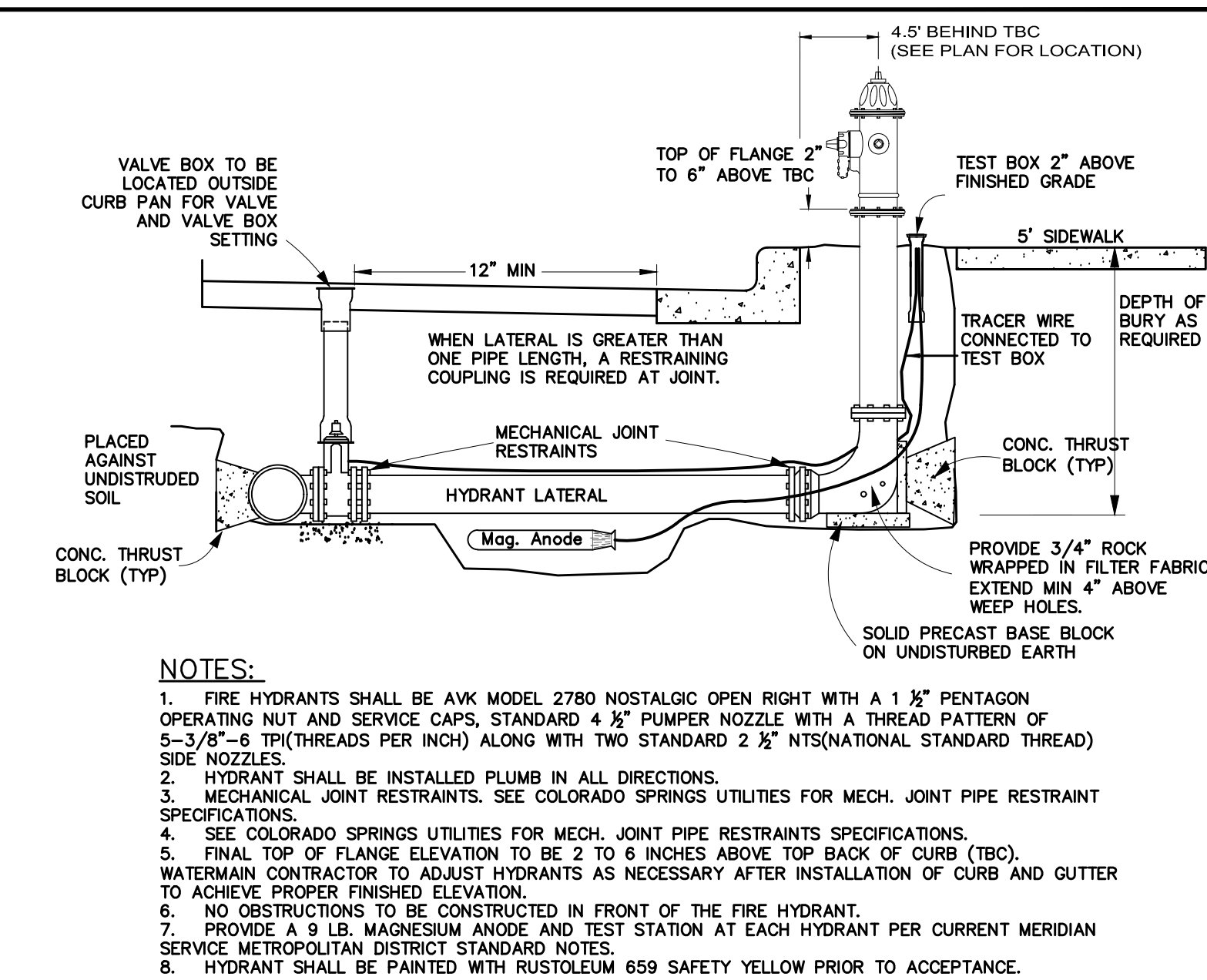
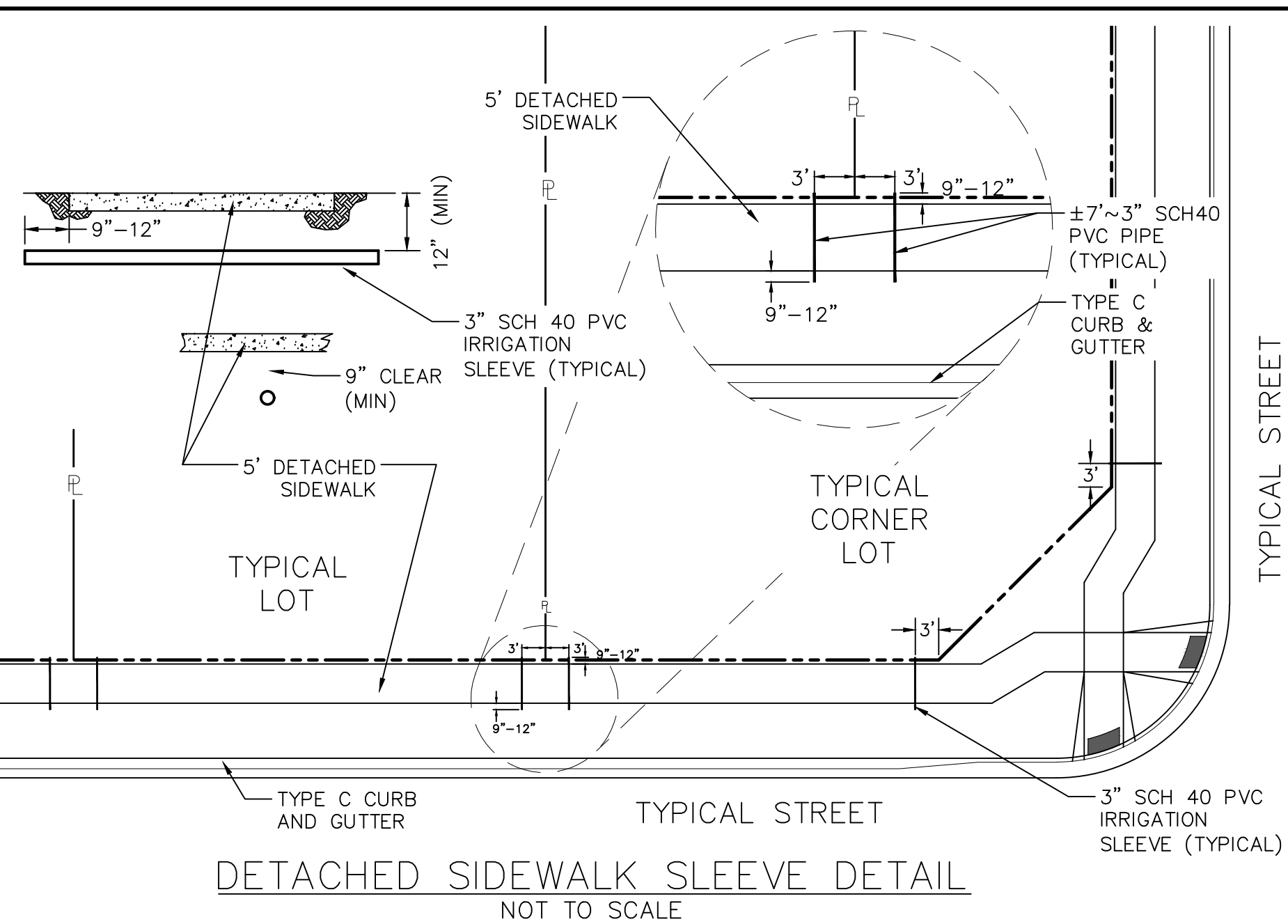
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

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

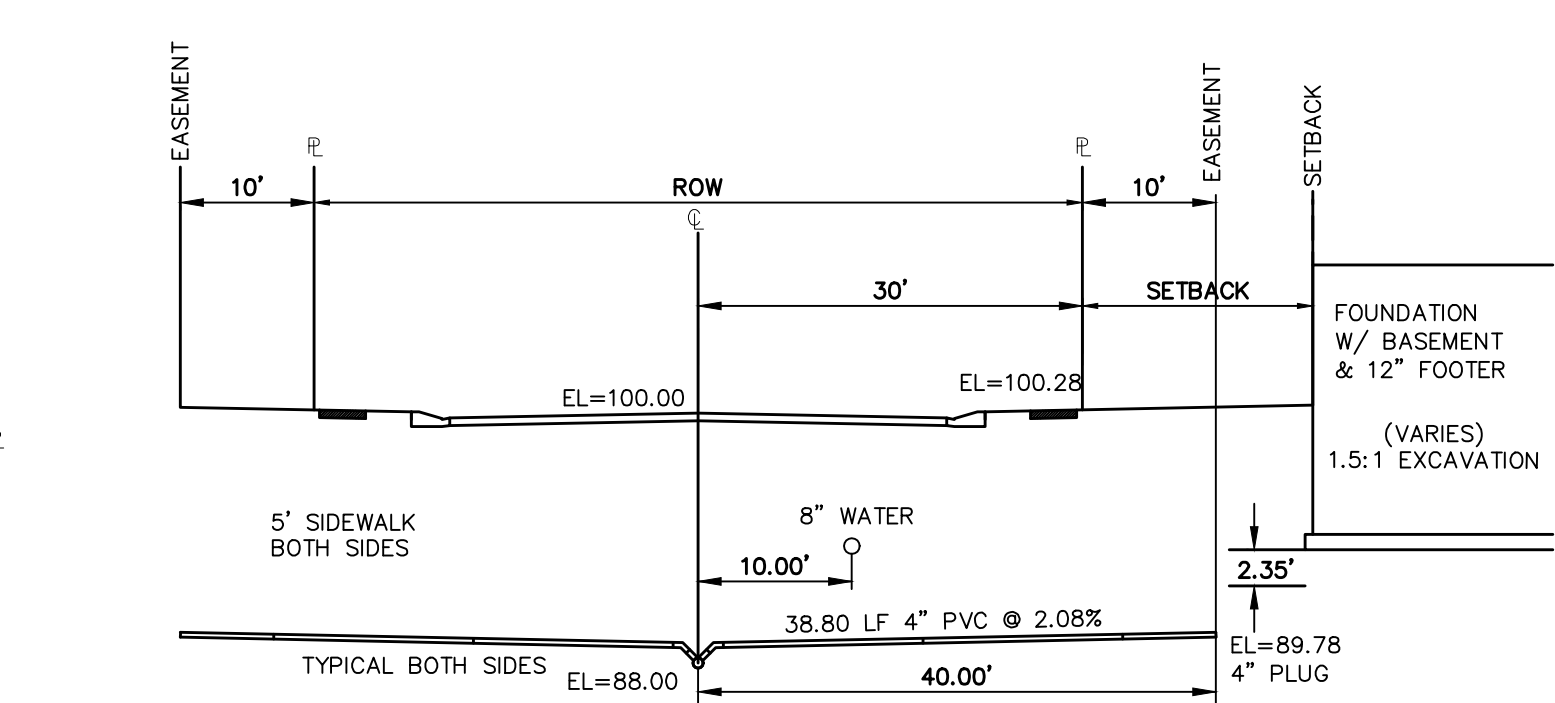
1. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING 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.

1. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARDS, PERMITS, BONDS, ETC. WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.
2. LOCATIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY THE CONTRACTOR THROUGH FIELD EXPLORATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT TO THE ENGINEER ANY DISCREPANCIES BETWEEN HIS MEASUREMENTS AND THESE PLANS.
3. ANY CONSTRUCTION DEBRIS OR MUD DROPPED INTO MANHOLES, INLETS, PIPES OR TRACKED ONTO EXISTING ROADWAYS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY HIS CONSTRUCTION. THE CONTRACTOR SHALL PROPERLY BARRICADE THE CONSTRUCTION SITE UNTIL CONSTRUCTION IS COMPLETE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT OBTAINED BY THE OWNER OR OWNER'S REPRESENTATIVES AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS.
5. ALL WORK AND MATERIALS WILL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
6. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS AS SHOWN ON THESE PLANS.

	Scale AS SHOWN	Drawn by LCS	ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1								
		Checked by TAK				2								
	Date	3												
	3 of 42	4												
										No.	Revisions	Date	Init.	Appr.



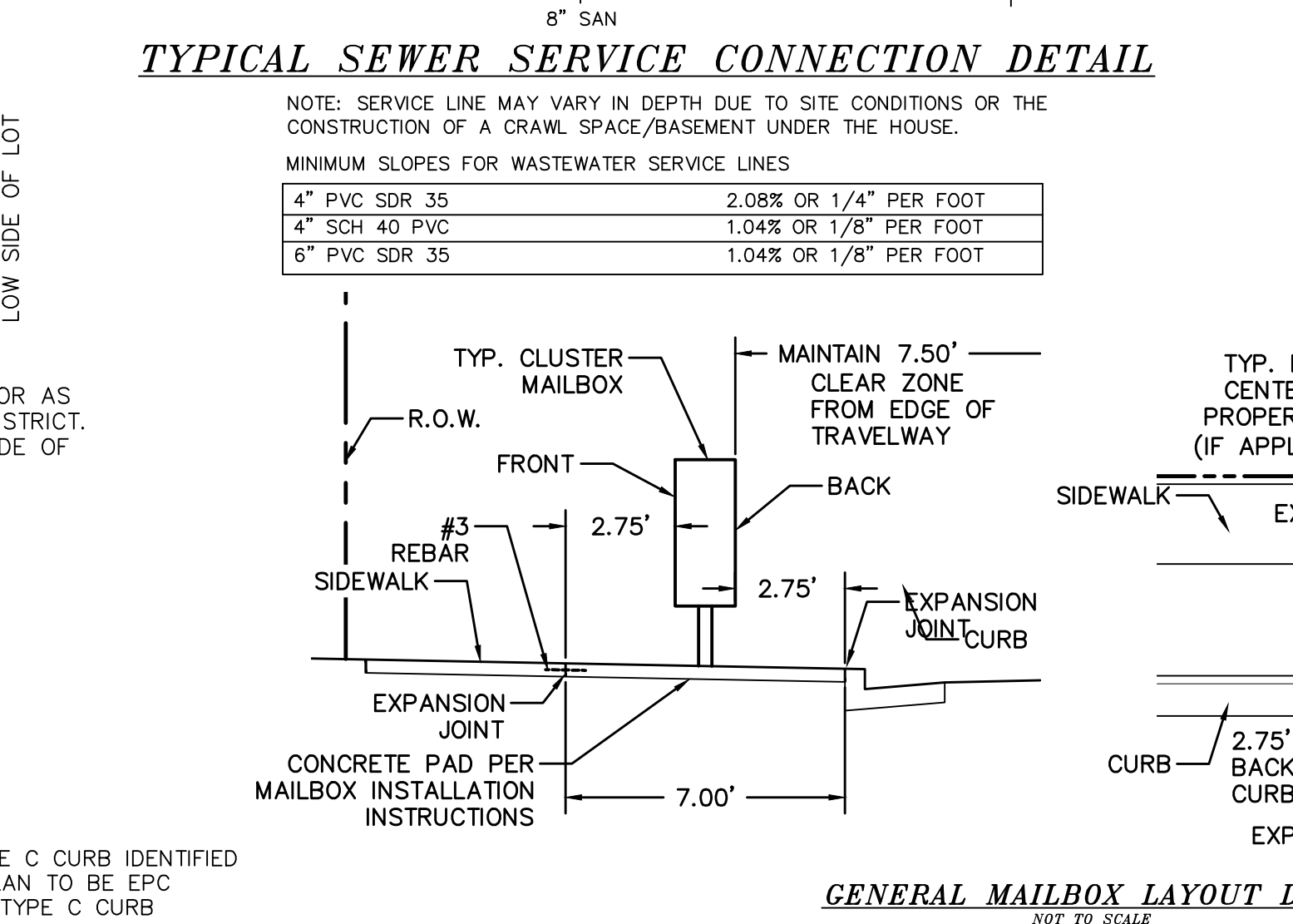
TYPICAL TRENCH & BEDDING DETAIL
SCALE : N.T.S.

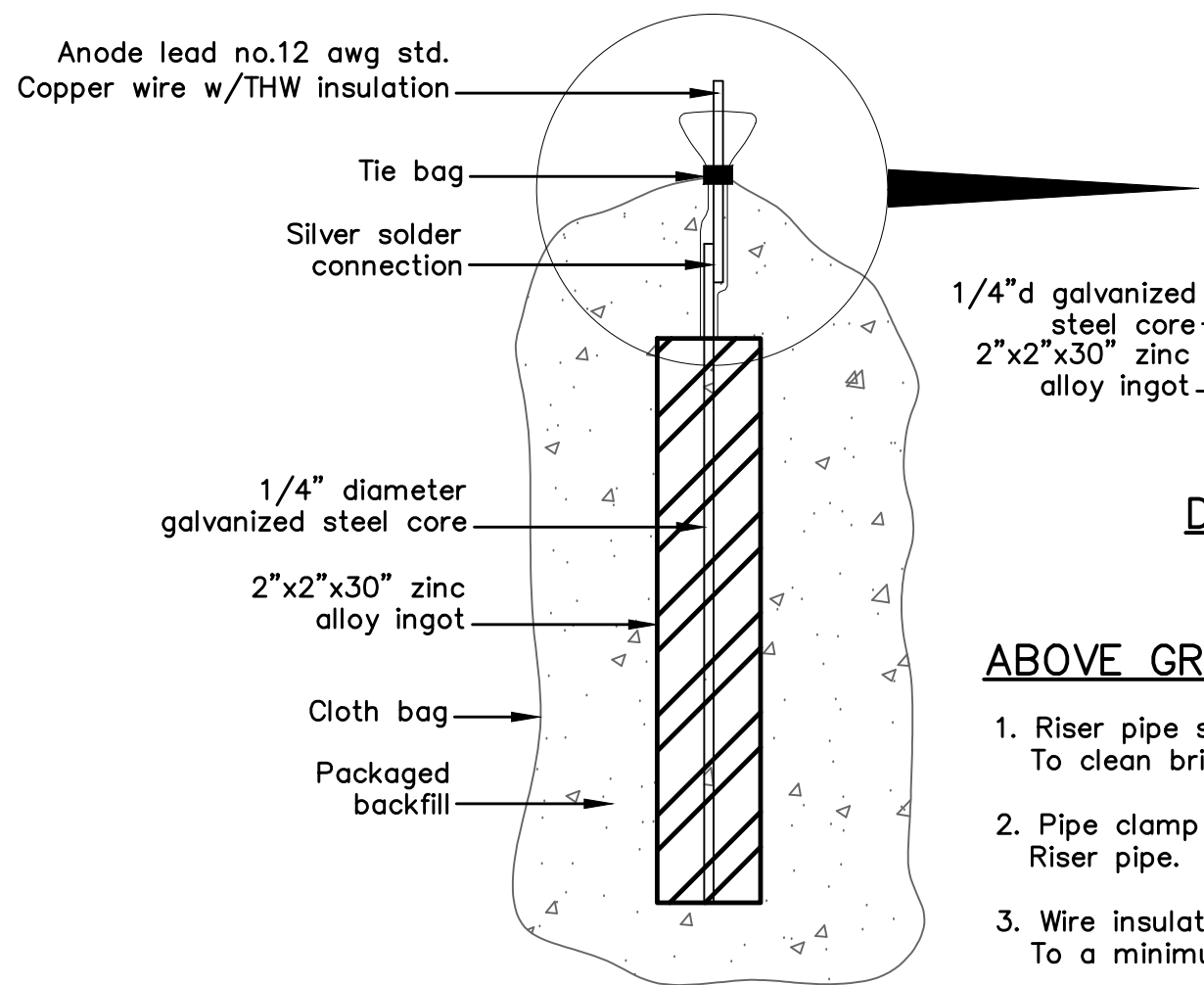


PIPE CHART

PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	4'-0"
6"	1'-6"	4'-0"
8"	2'-0"	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"

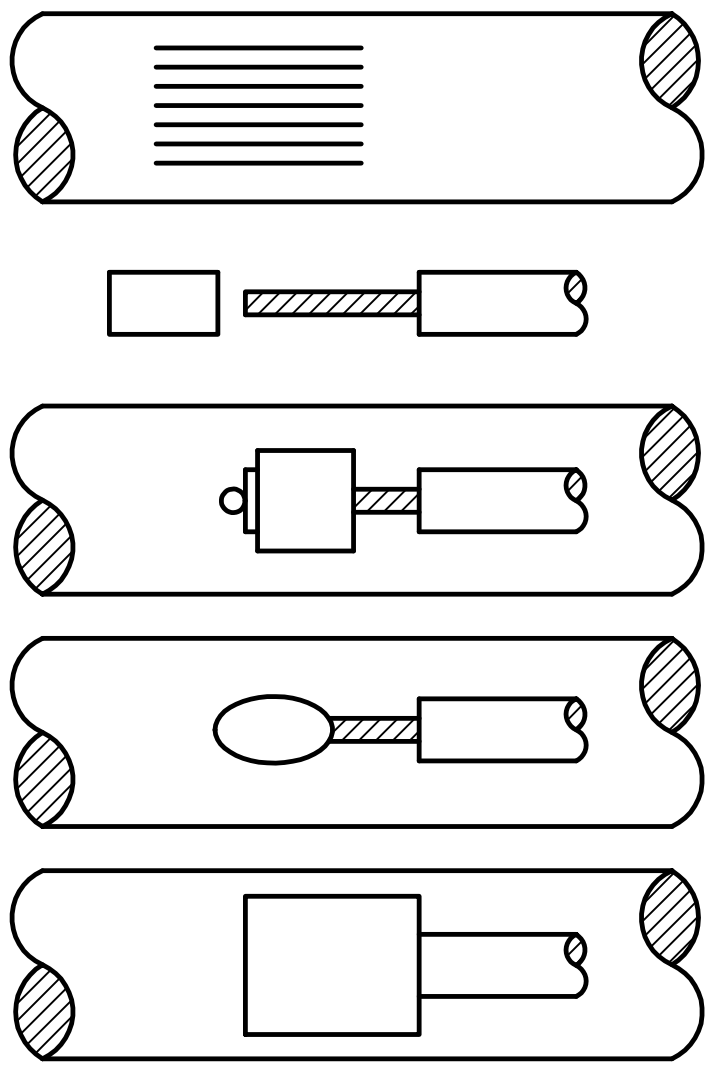
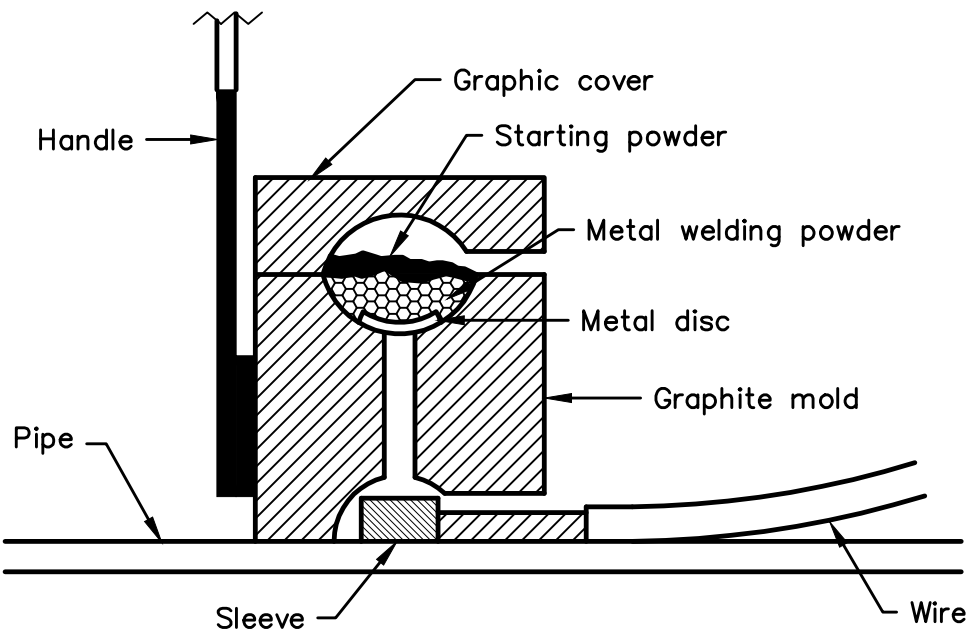
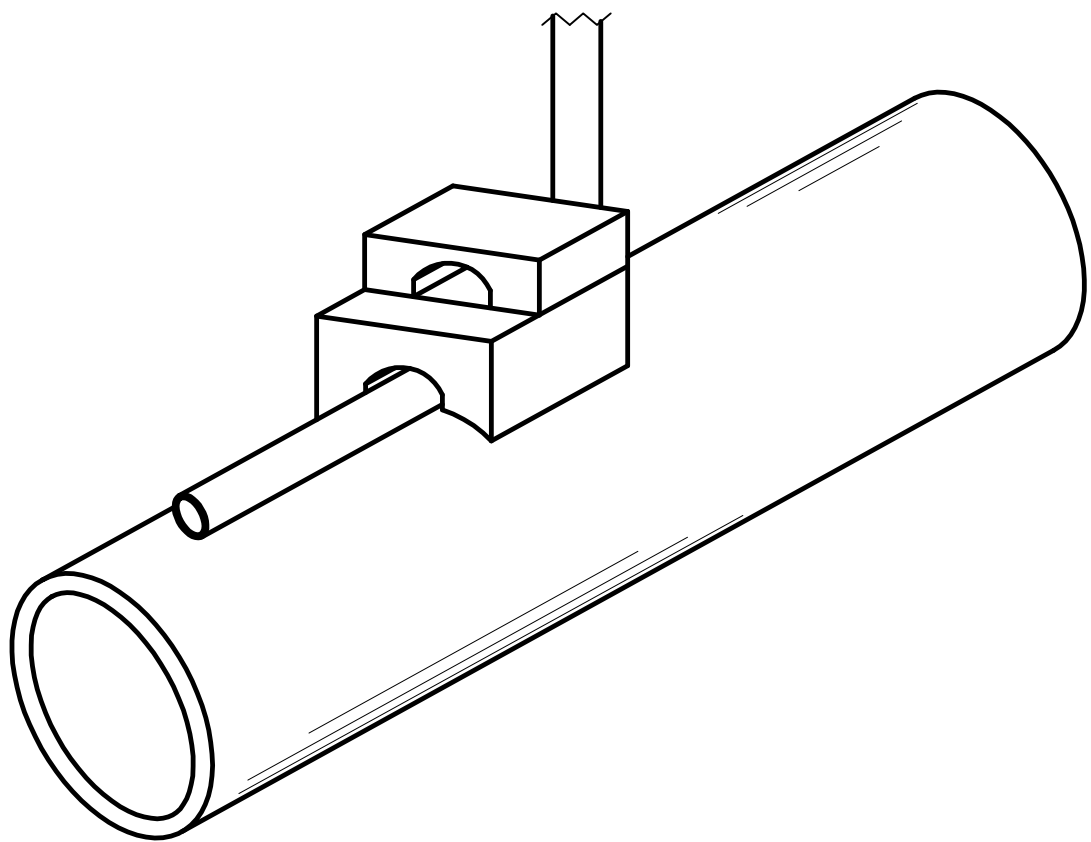
<u>SYMBOL</u>	<u>ACRONYM</u>	<u>DESCRIPTION</u>
	RCP W/FES	REINFORCED CONCRETE PIPE W/FLARED END SECTIONS
		STORM SEWER INLET BOX
	SDMH	STORM SEWER MANHOLE
	ST	STORM SEWER LINE (PUBLIC UNLESS OTHERWISE NOTED)
	SS	SANITARY SEWER MAIN
	SSMH	SANITARY SEWER MANHOLE
	WM	WATER MAIN (ALL PIPES PVC, UNLESS OTHERWISE 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
	R1-1	STOP SIGN - R1-1, 30x30 UNLESS OTHERWISE NOTED
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')





ZINC ANODE

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



NOTES:

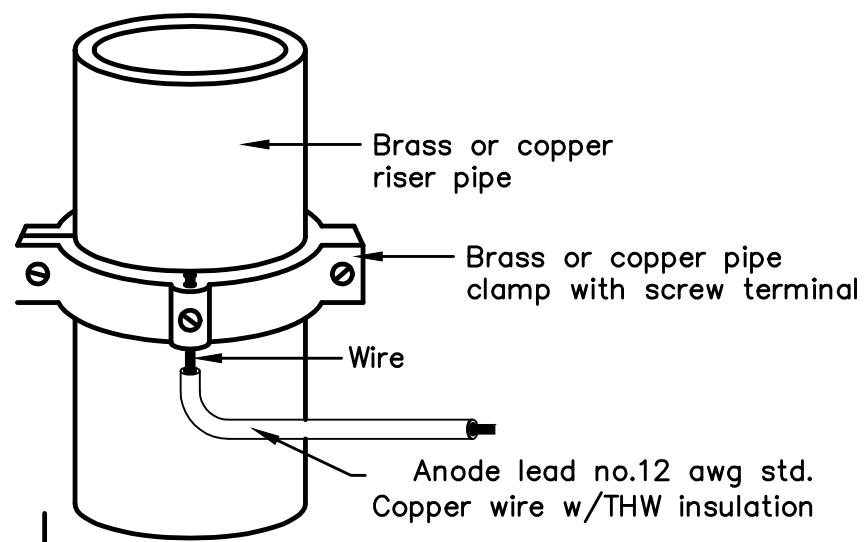
1. All wire welds shall be minimum 3 inches apart.
2. Standard weld cartridges shall be used for steel surfaces.

EXOTHERMIC WELD PROCESS

PACKAGED BACKFILL COMPOSTION:

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:

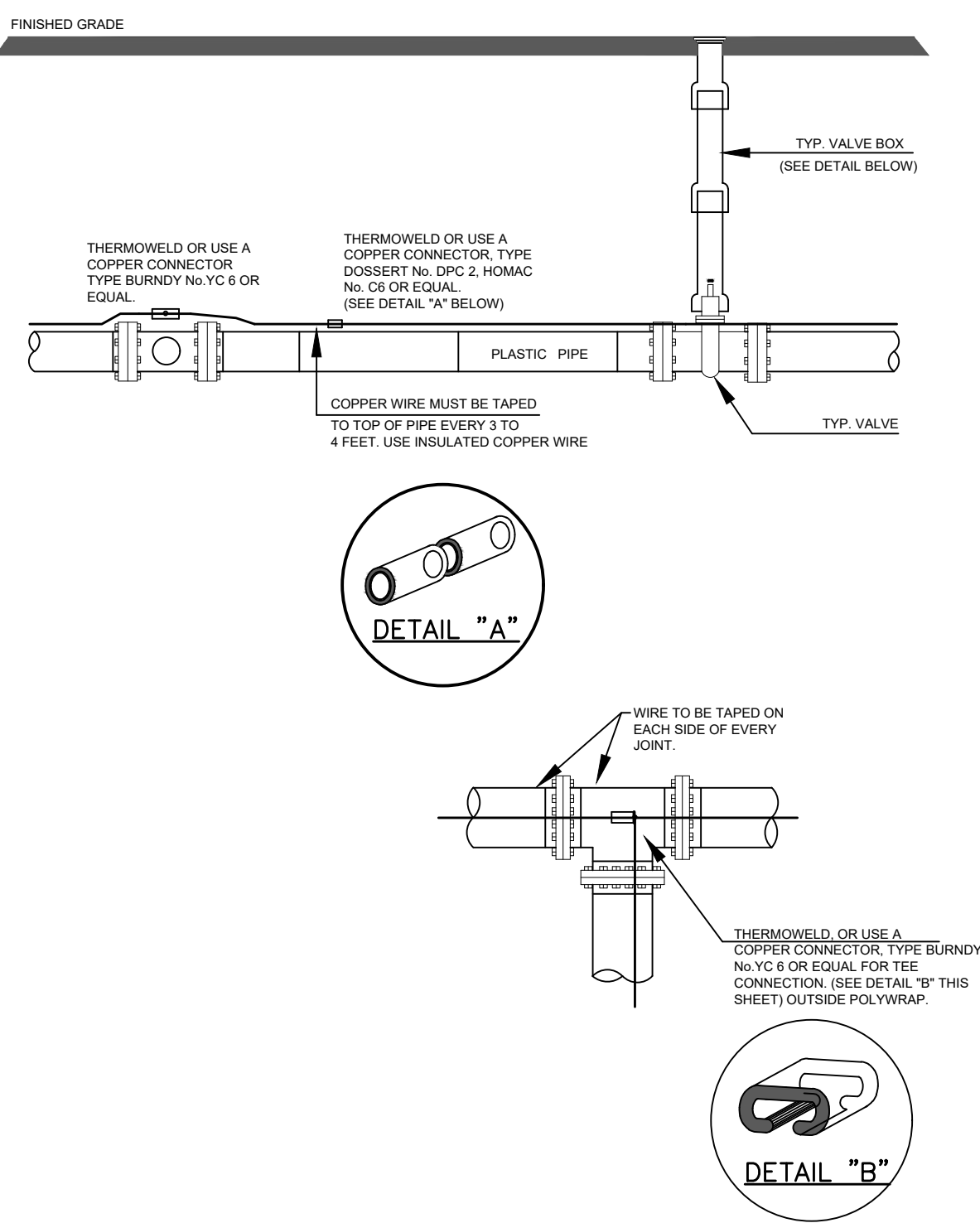
PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

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

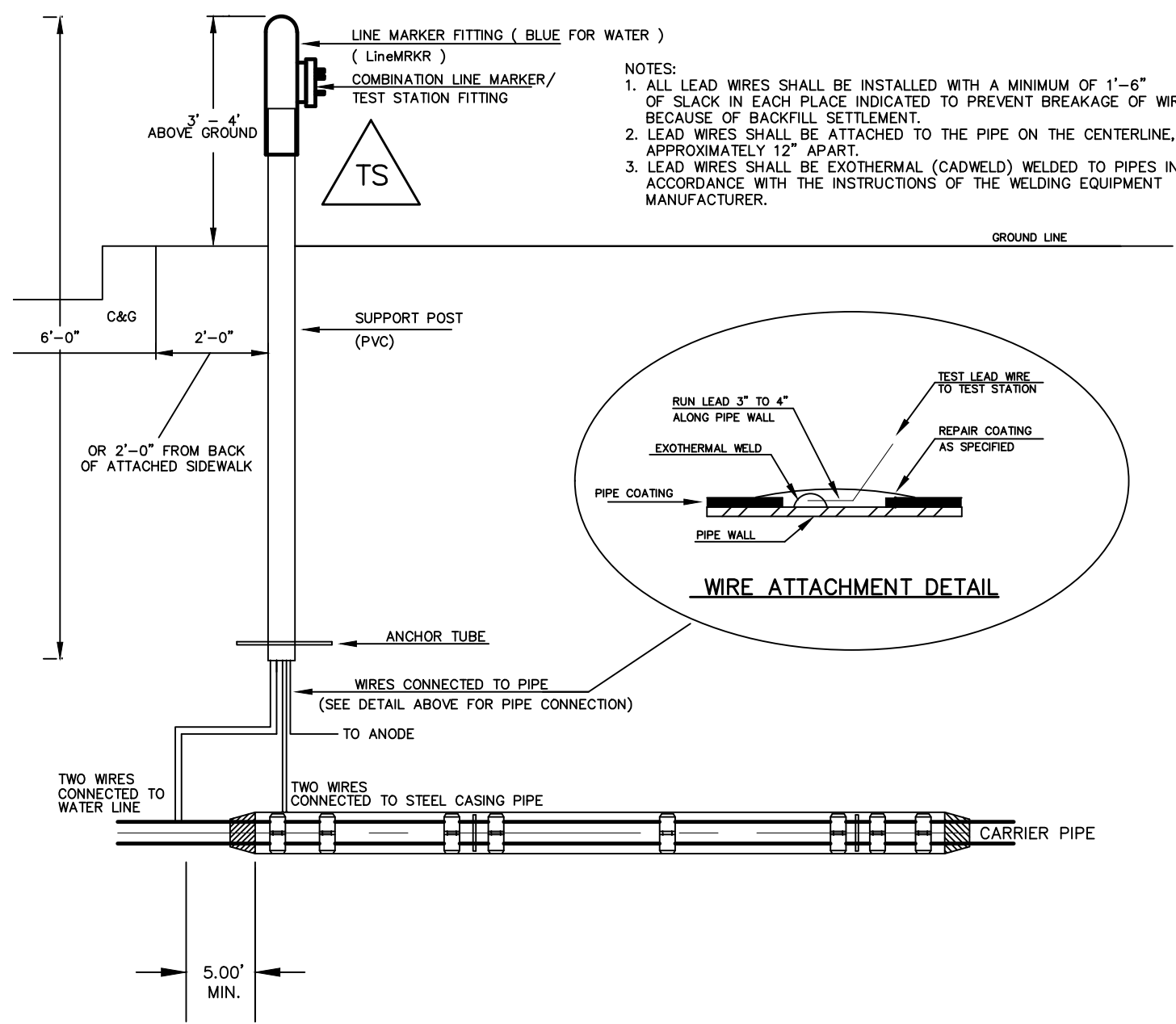
For use with DIP in conjunction with poly-wrap sleeves and piping in 1000 ohm-cm soil estimating a 5% holiday area.

Pipe Size Inches	Actual OD Inches	Anode Spacing Feet (see note 2)	Anode Weight (lb)
4	4.8	76.3	17 lb
6	6.9	53.1	17 lb
8	9.05	40.5	17 lb
12	13.20	27.7	17 lb
16	16	21.0	32 lb
20	20	16.9	32 lb
24	24	14.2	48 lb
30	30	11.4	48 lb
36	36	9.57	48 lb
42	42	8.24	48 lb
48	48	7.21	48 lb
54	54	6.42	48 lb

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

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.
3. Packaged anode to be wetted and covered with soil prior to backfilling.

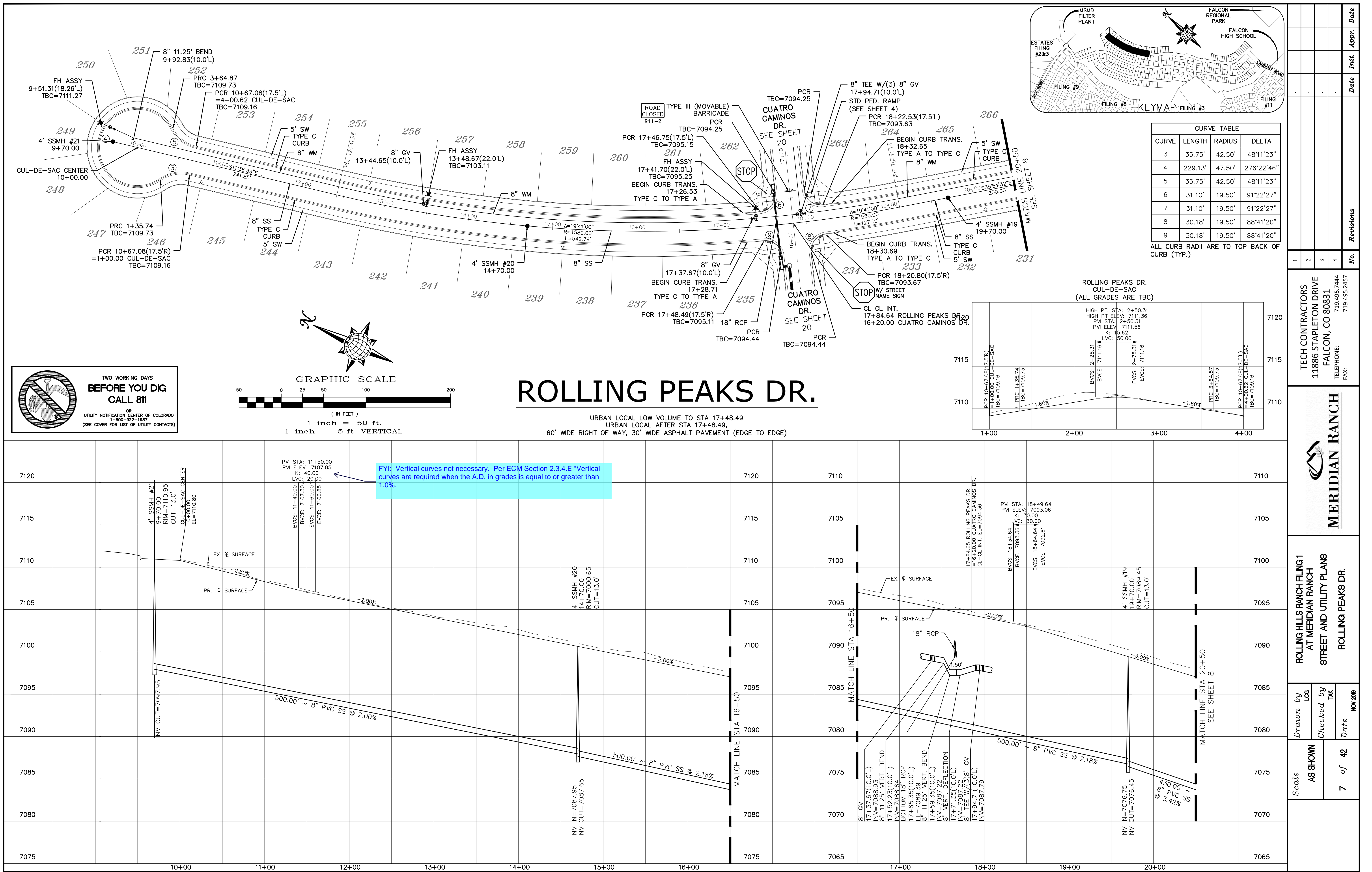


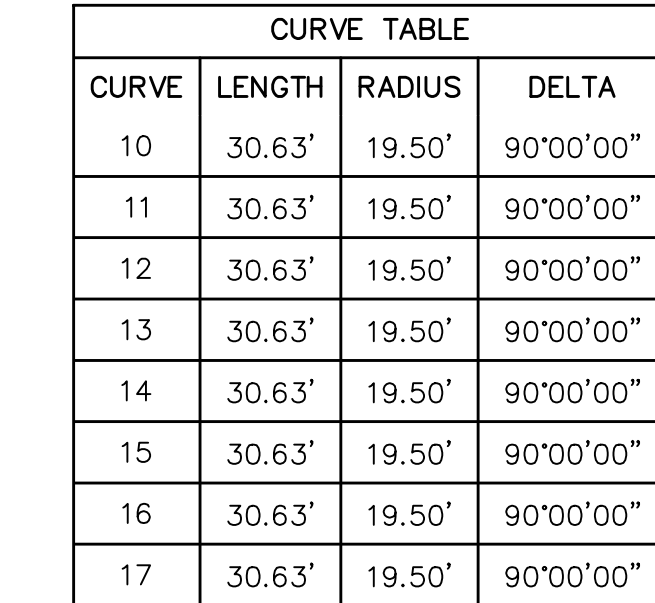
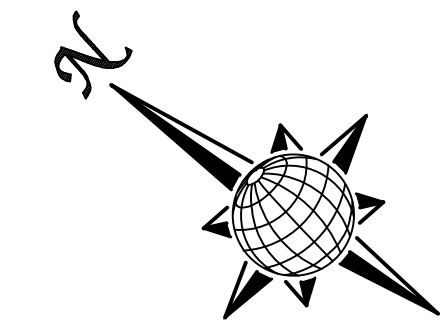
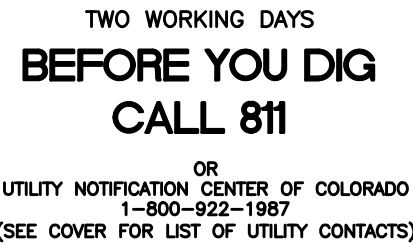
TYPICAL DETAIL FOR TEST STATION
WITH STEEL SLEEVE INSTALLATION

NOTES:

- 1.) Lowerings to be cathodically protected under the direction of the MSMD Inspector, per standards.
- 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.

No.	Revisions	Date	Init.	Appr.	Date
1					
2					
3					
4					
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457					
MERIDIAN RANCH					
ROLLING HILLS RANCH FLING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS DETAIL SHEET					
Scale	AS SHOWN	Drawn by	Log	Checked by	TAK
	5 of 42	Date	NOV 2019		






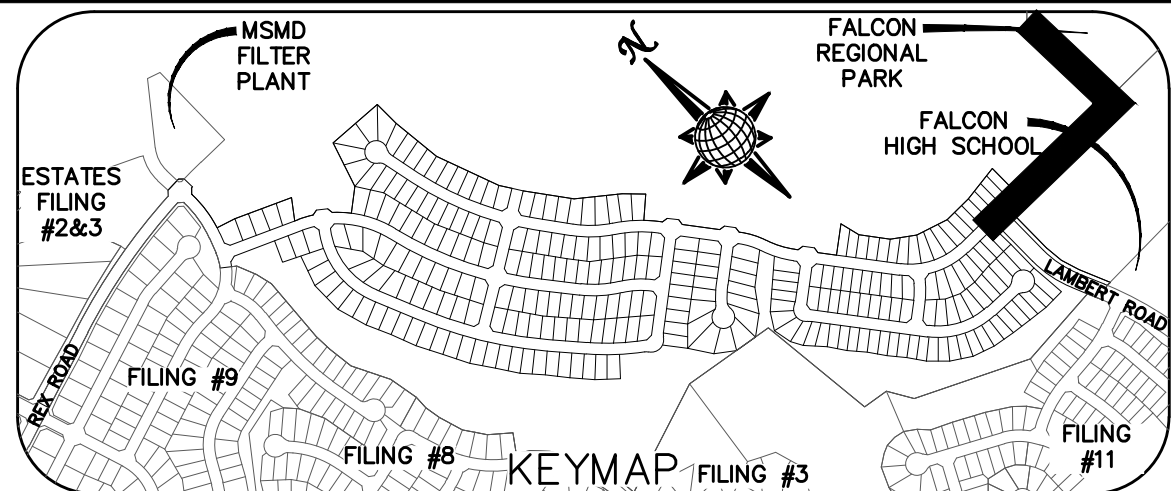
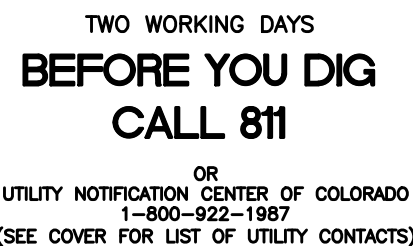
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



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

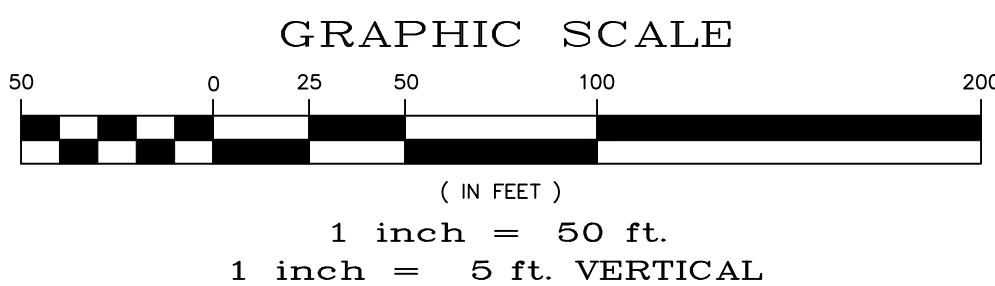


Scale AS SHOWN	Drawn by LOG	ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS ROLLING PEAKS DR.	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	-			
	Checked by TAK				2	-			
8 of 42	Date				3	-			
					4	-			
					No.	Revisions	Date	Init.	Appr.



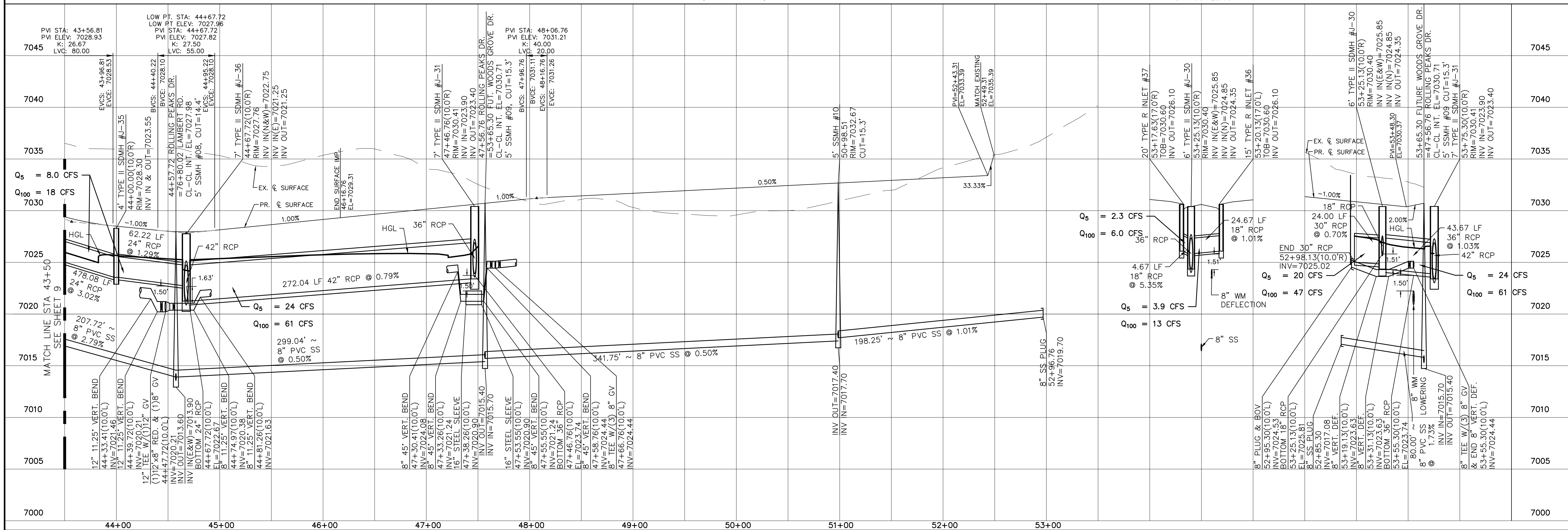
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
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2	38.48'	24.50'	90°00'00"


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

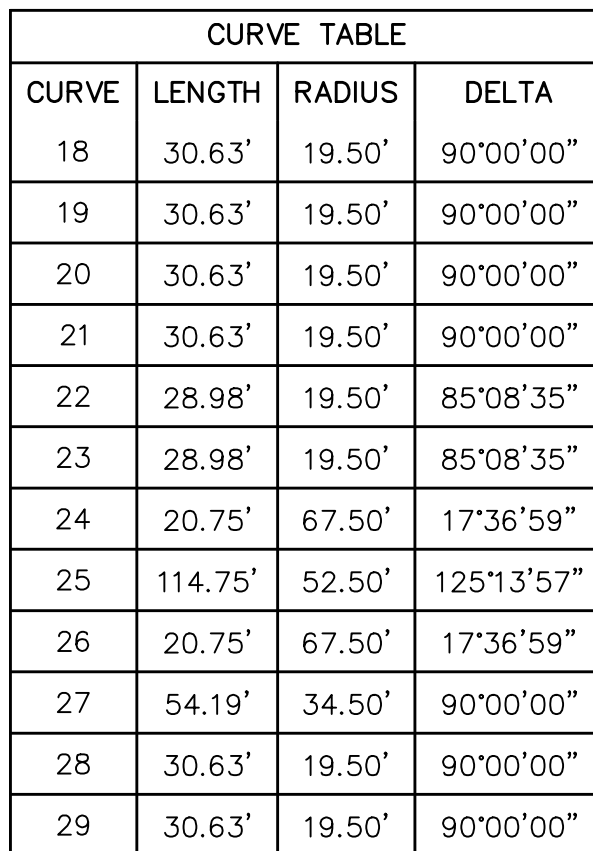
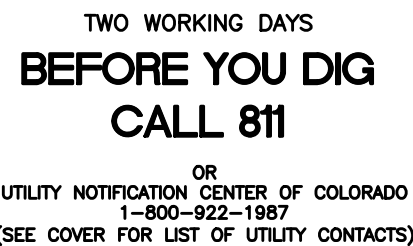


ROLLING PEAKS DR.

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



<div>Scale</div> <div>AS SHOWN</div>	<div>10 of 42</div>	<div>Drawn by</div> <div>LG</div>	<div>ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS ROLLING PEAKS DR.</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	-		
		<div>Checked by</div> <div>TAK</div>				2	-		
		<div>Date</div> <div>NOV 2019</div>				3	-		
						4	-		
				No.	Revisions	Date	Invt.	Appr.	Date



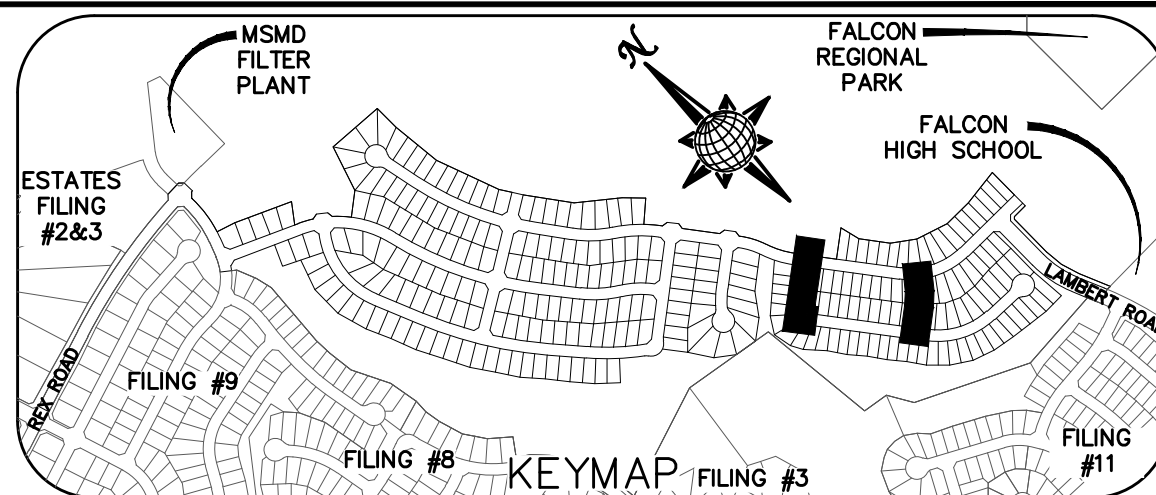
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



GRAPHIC SCALE

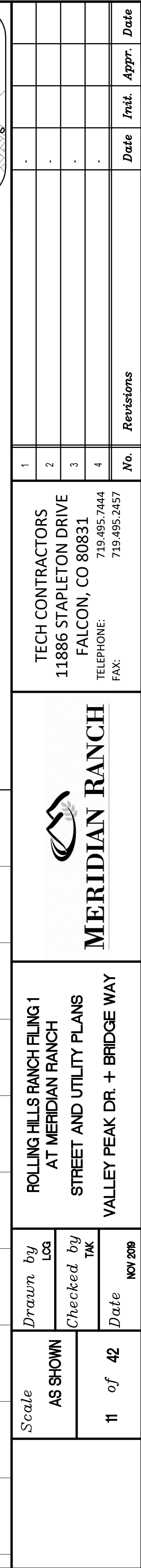
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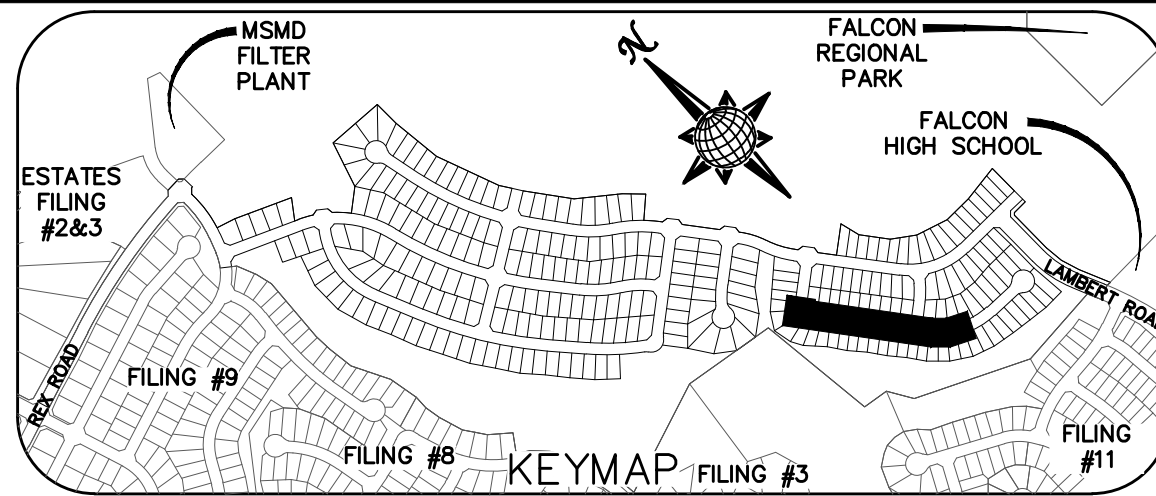
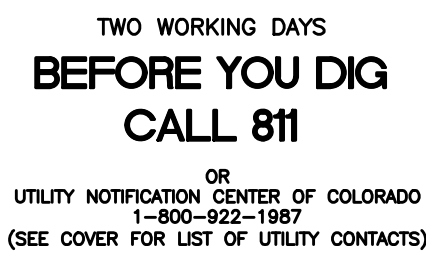
1 inch = 5 ft. VERTICAL



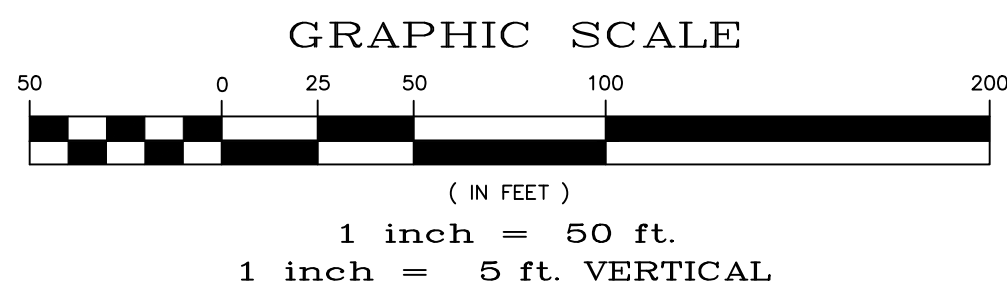
URBAN LOCAL

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

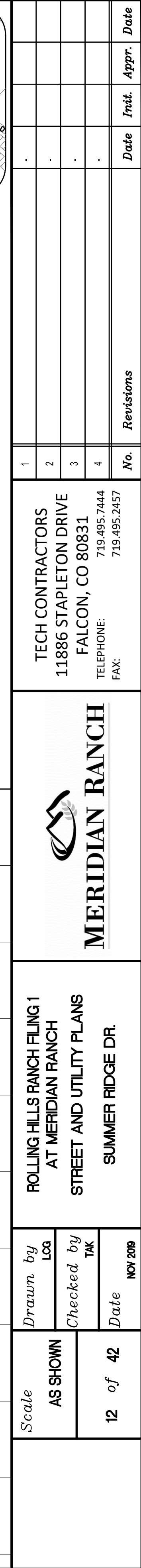


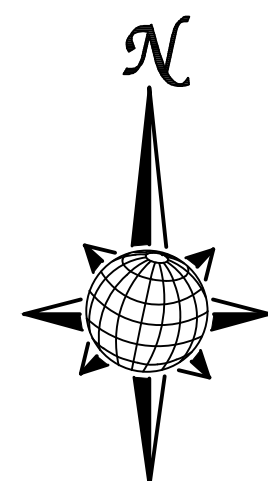
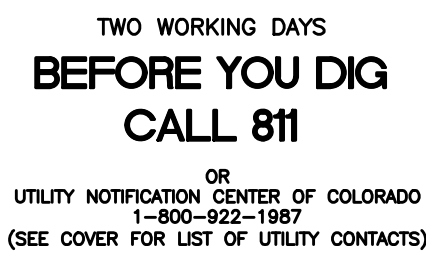


ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



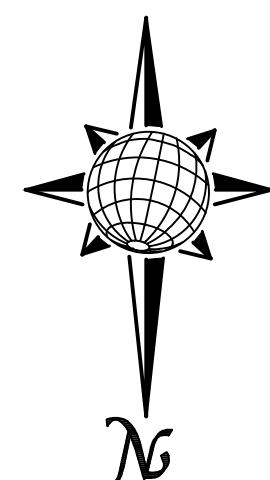
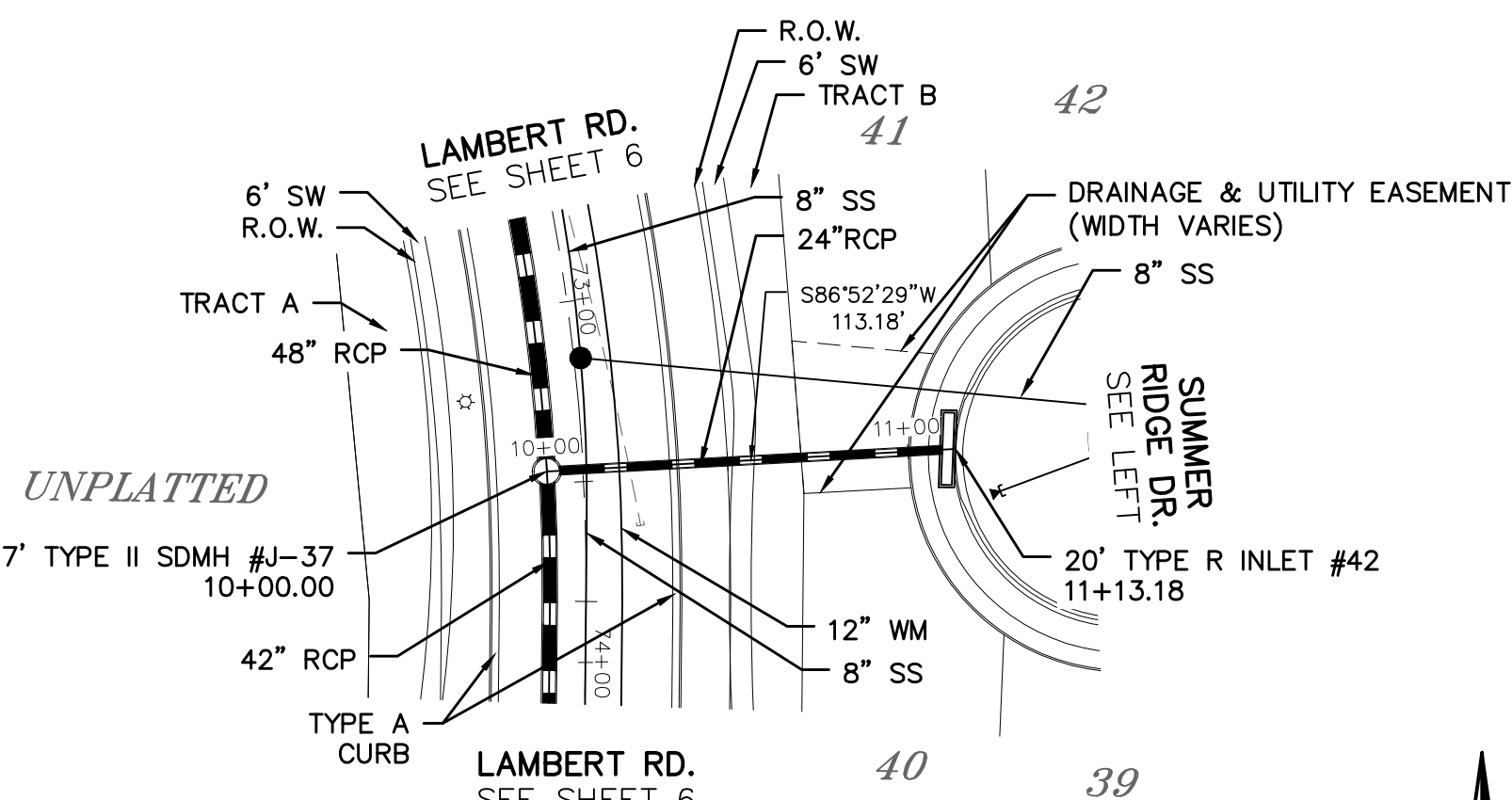
URBAN LOCAL TO STA 17+81.31
URBAN LOCAL LOW VOLUME AFTER STA 17+81.31
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)





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

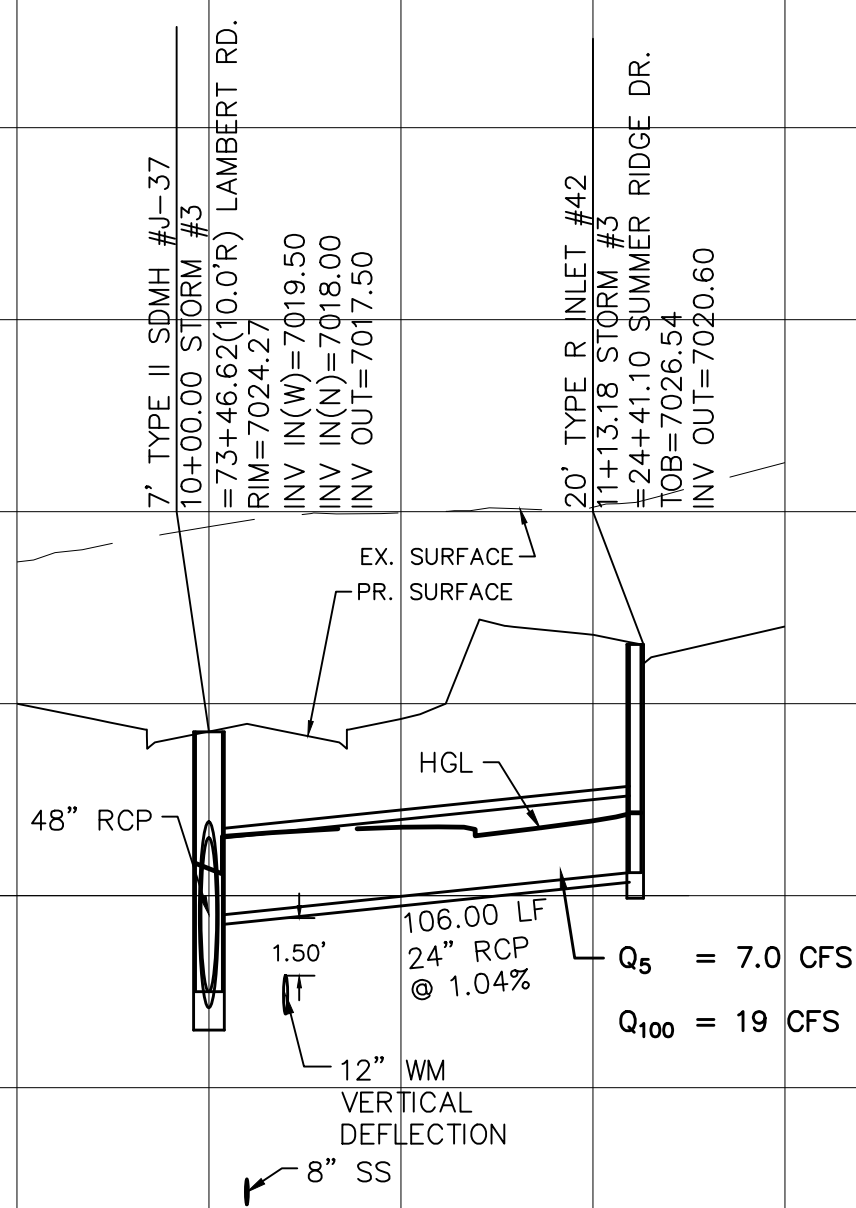
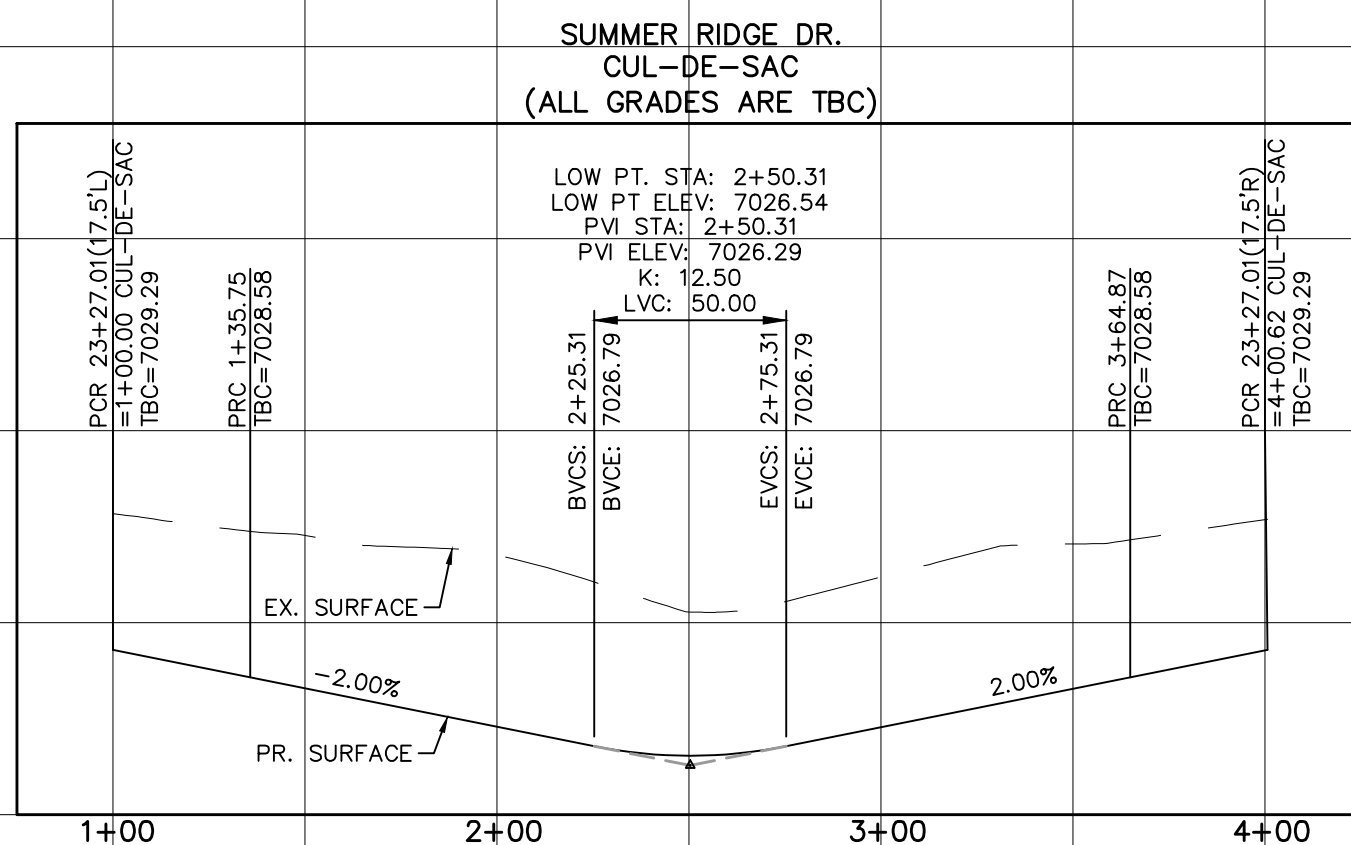
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



GRAPHIC SCALE

(IN FEET)

1 inch = 50 ft.
1 inch = 5 ft. VERTICAL

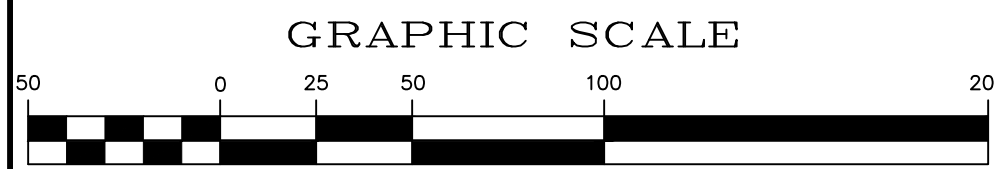
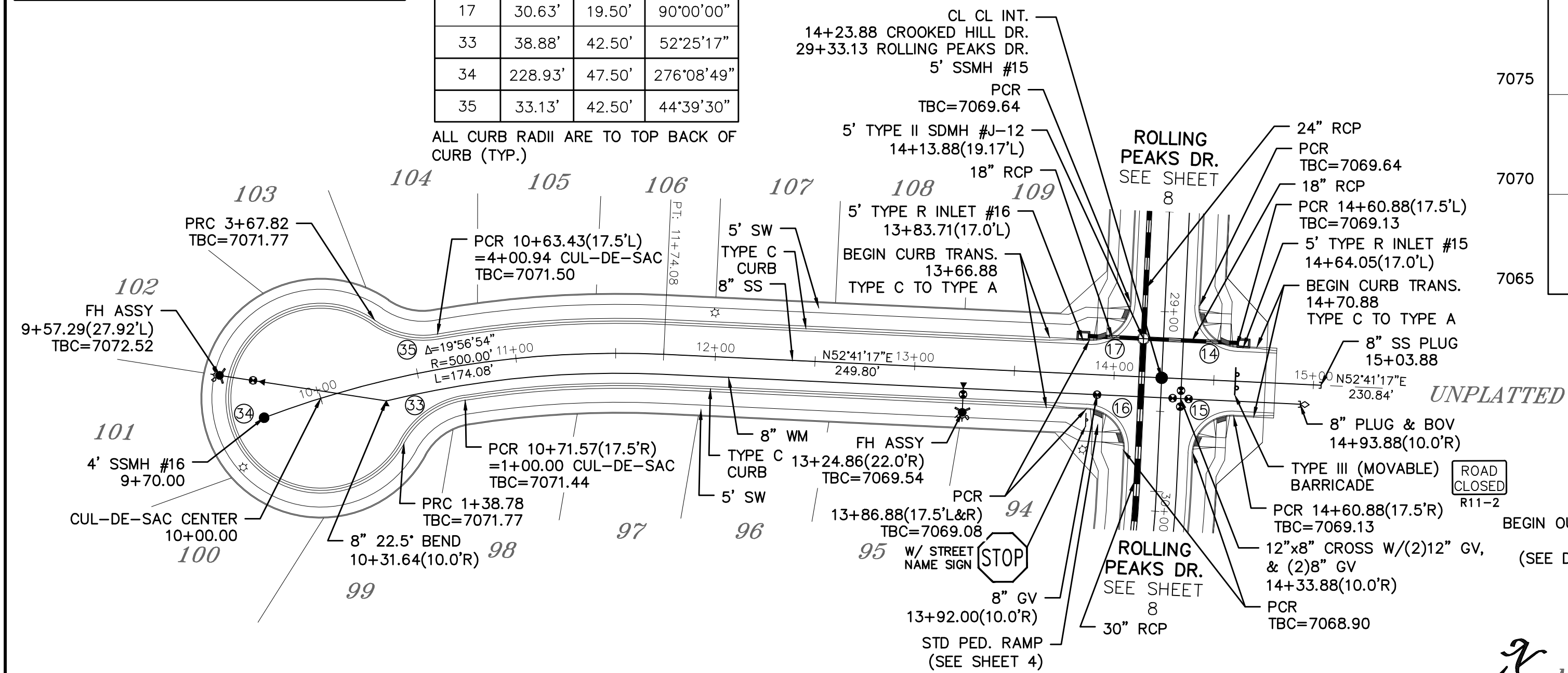
PCD PROJECT NO. SF-XX-XX)



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

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
14	30.63'	19.50'	90°00'00"
15	30.63'	19.50'	90°00'00"
16	30.63'	19.50'	90°00'00"
17	30.63'	19.50'	90°00'00"
33	38.88'	42.50'	52°25'17"
34	228.93'	47.50'	276°08'49"
35	33.13'	42.50'	44°39'30"

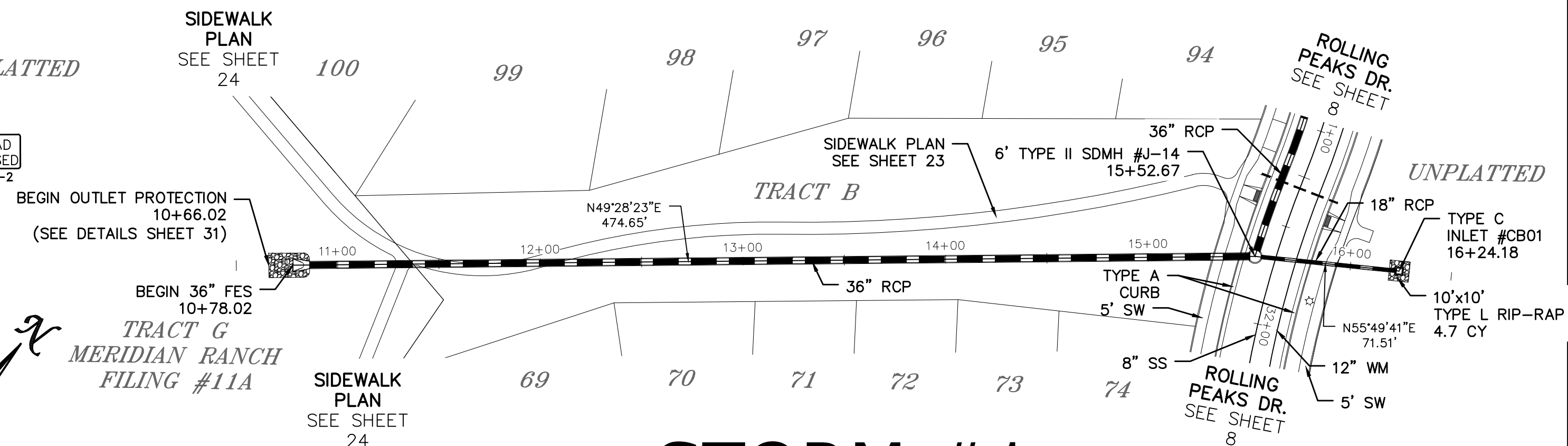
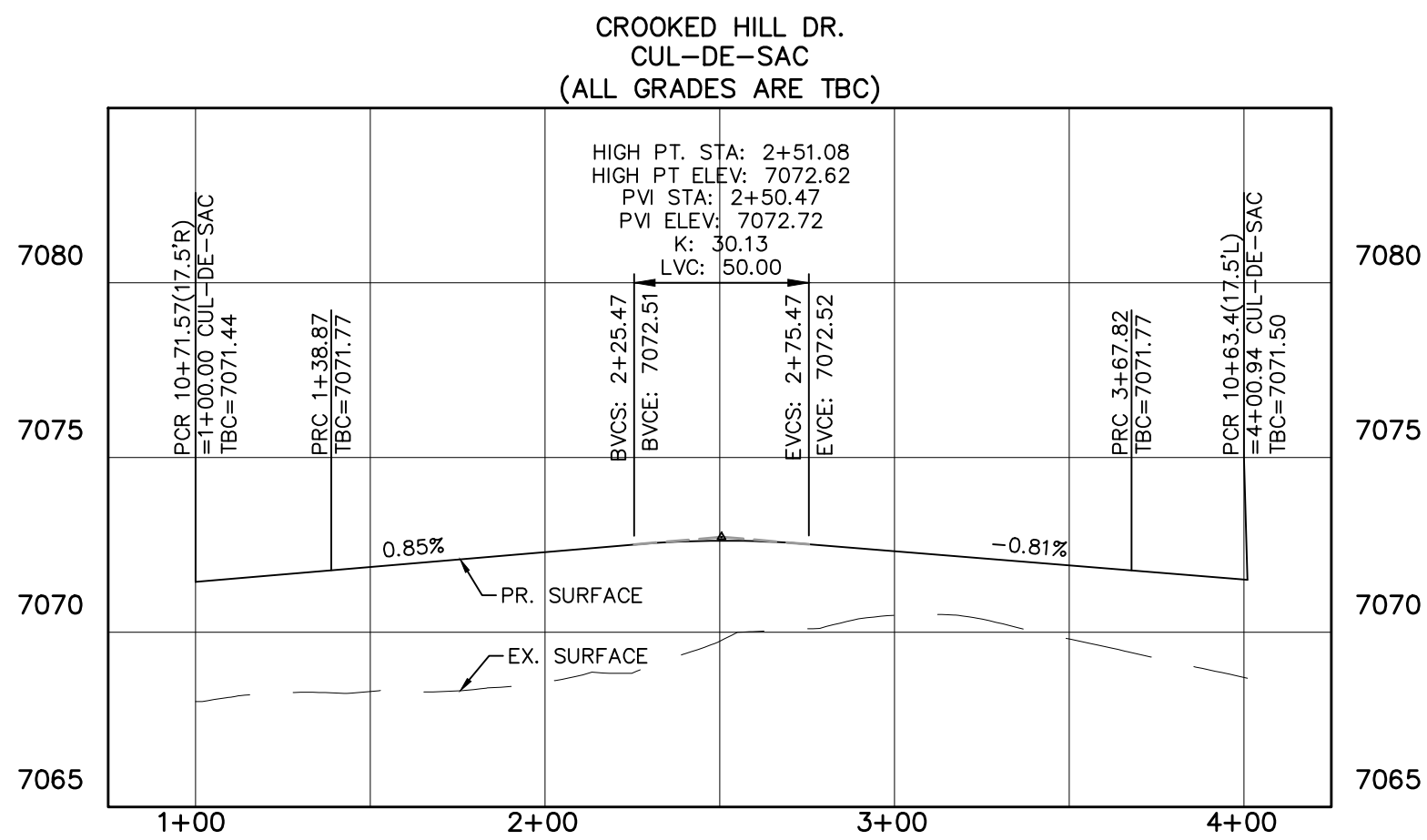
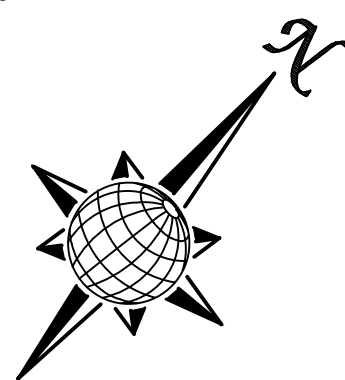
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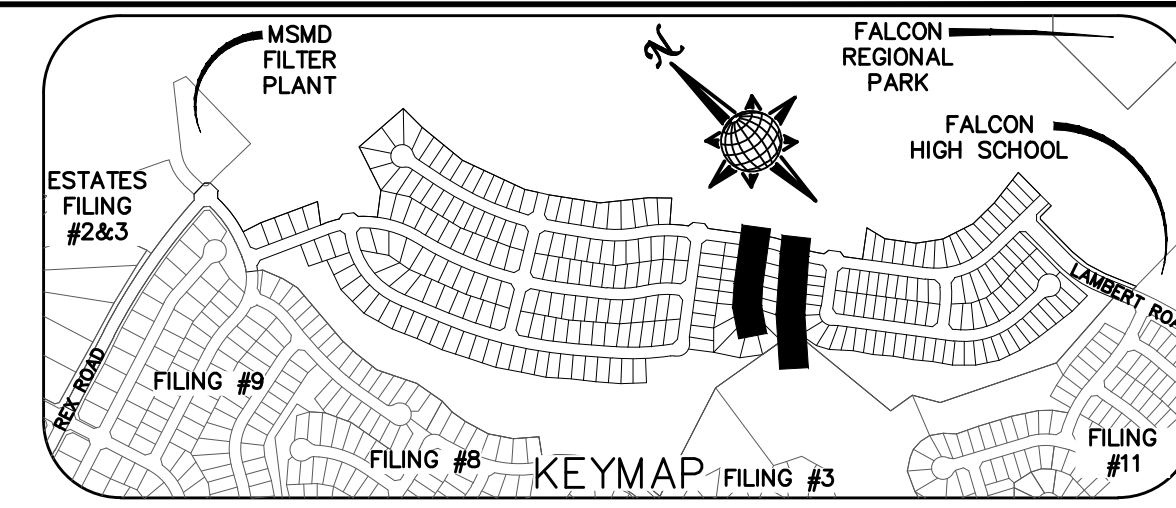
1 inch = 50 ft.
ch = 5 ft. VERTICAL

CROOKED HILL DR.

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



STORM #1



Date	Init.	Appr.	Date
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No.	<i>Revisions</i>
1	
2	
3	
4	

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

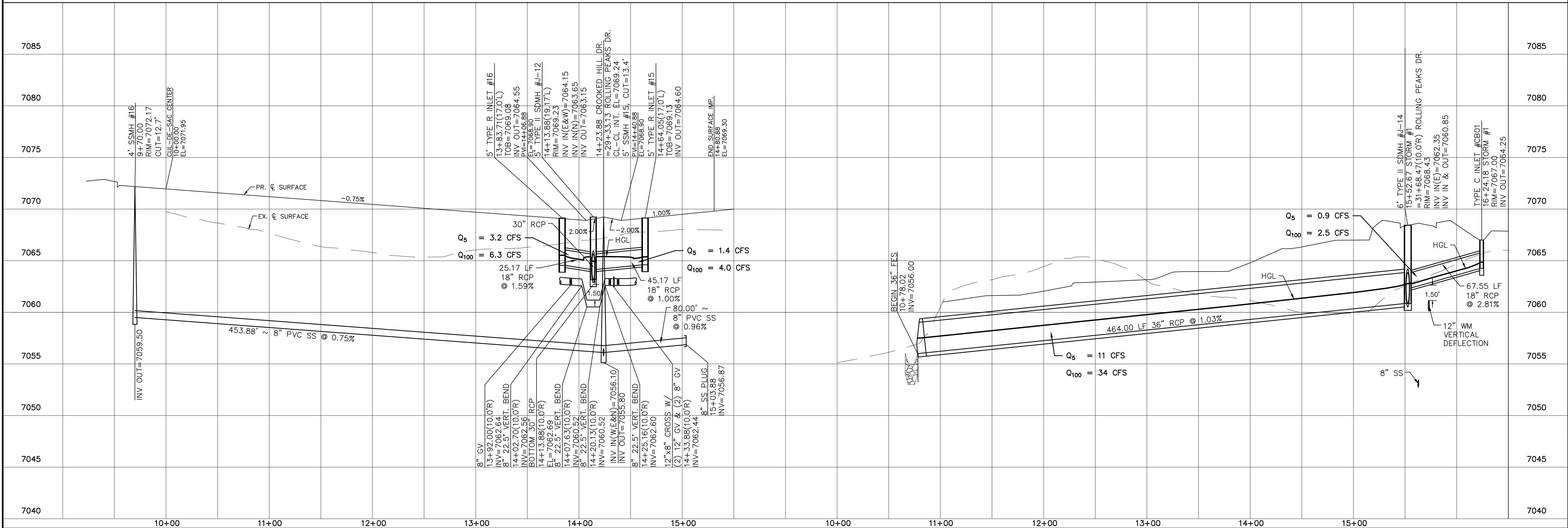


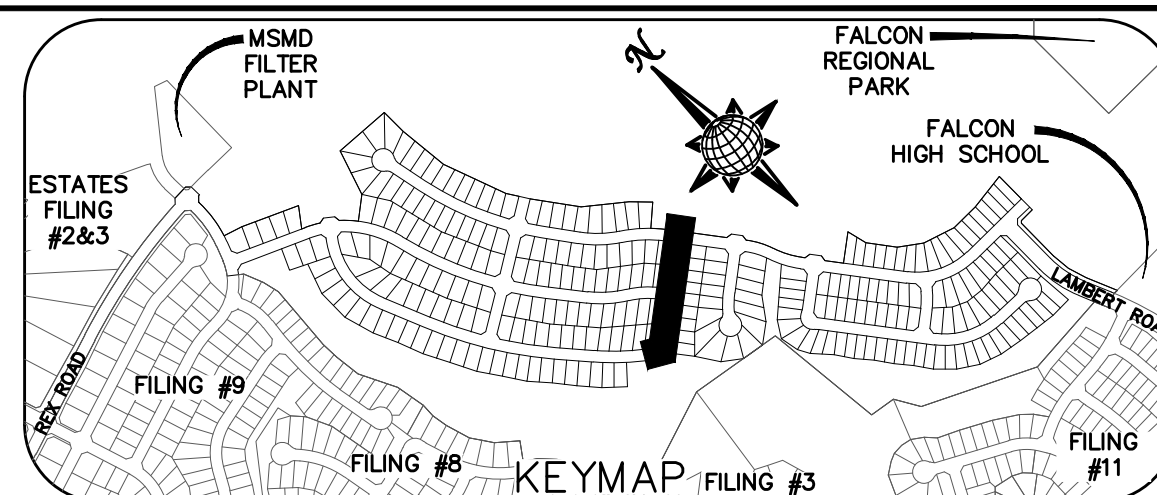
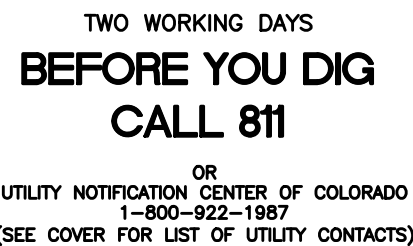
MERIDIAN RANCH

ROLLING HILLS RANCH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
CROOKED HILL DR. + STORM #1

<i>Drawn by</i>	<i>LOG</i>
<i>Checked by</i>	<i>TAK</i>
<i>Date</i>	NOV 2019

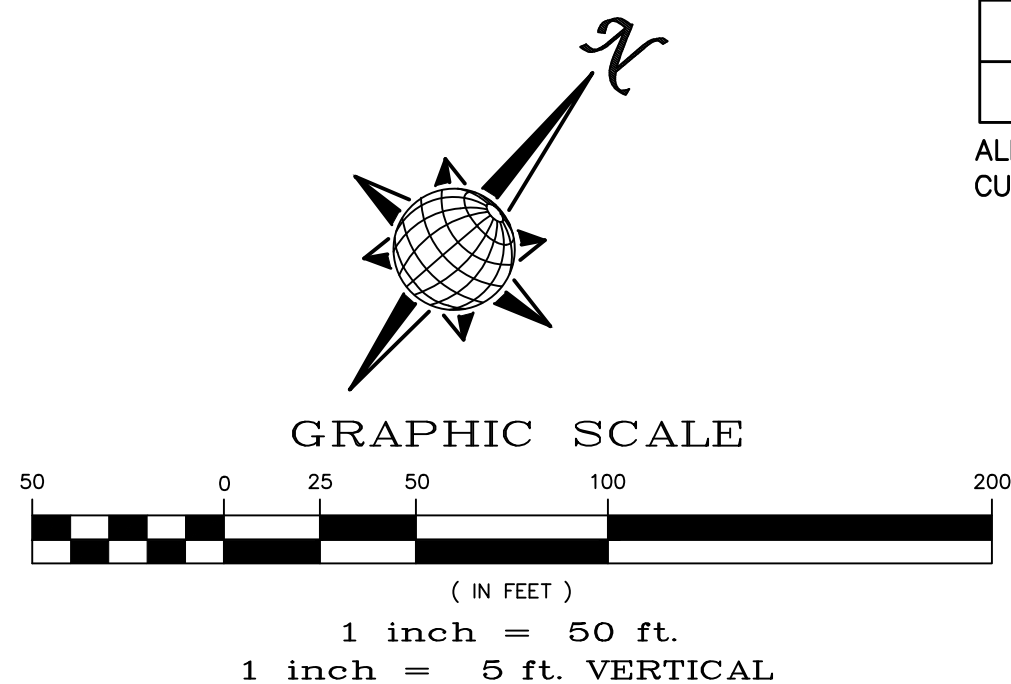
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	14 of 42



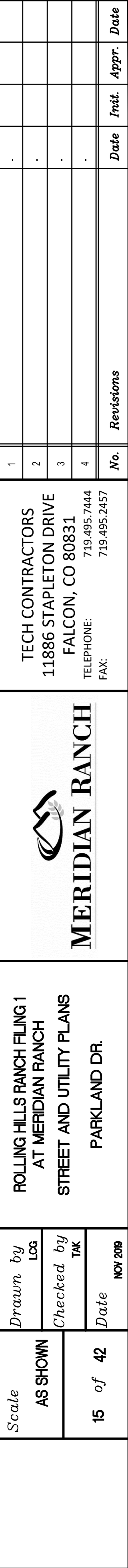


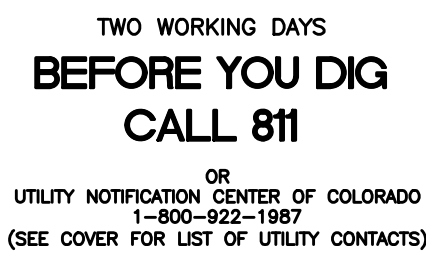
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
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11	30.63'	19.50'	90°00'00"
12	30.63'	19.50'	90°00'00"
13	30.63'	19.50'	90°00'00"
46	30.63'	19.50'	90°00'00"
47	30.63'	19.50'	90°00'00"
50	25.08'	67.50'	21°17'28"
51	107.24'	52.50'	117°02'24"
52	26.00'	67.50'	22°04'21"
53	43.70'	34.50'	72°34'04"

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

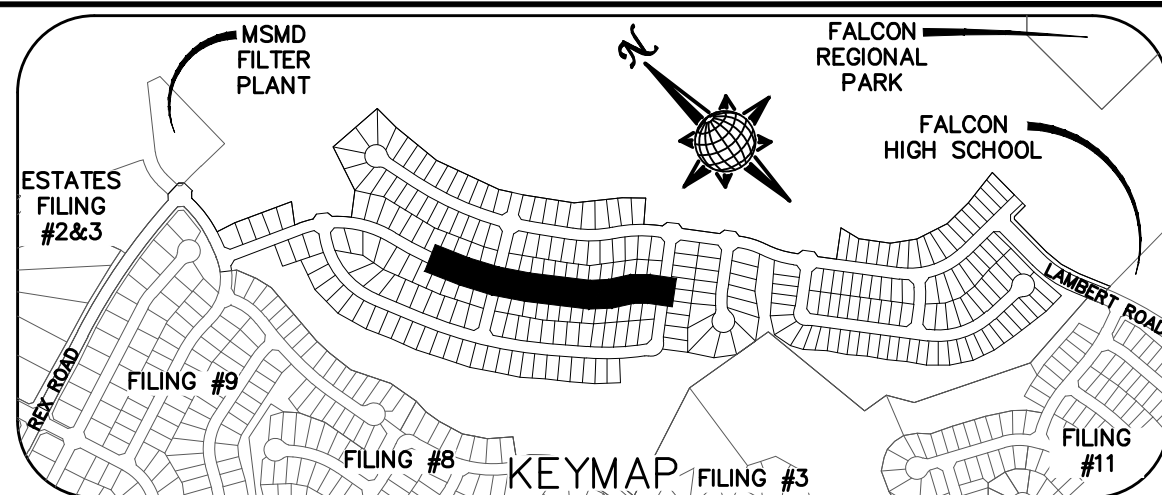


URBAN LOCAL
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)





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



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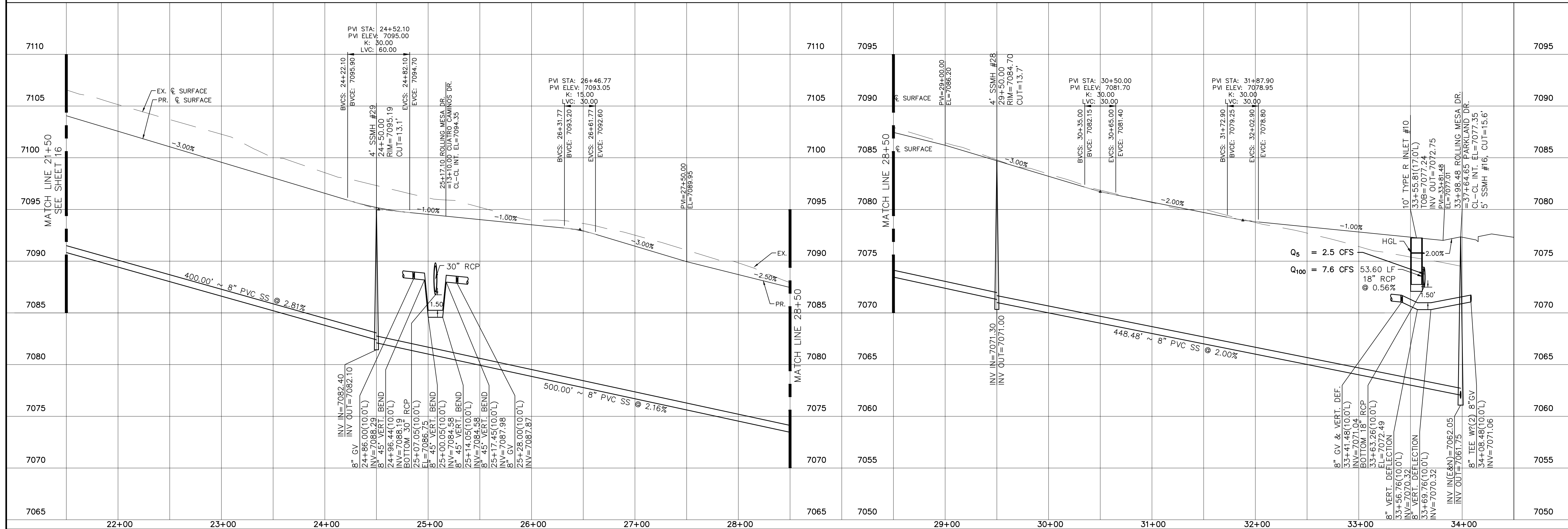
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<i>Revisions</i>	

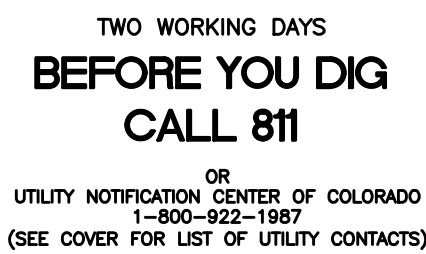
TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

MERIDIAN RANCH

ROLLING HILLS RANCH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
ROLLING MESA DR.

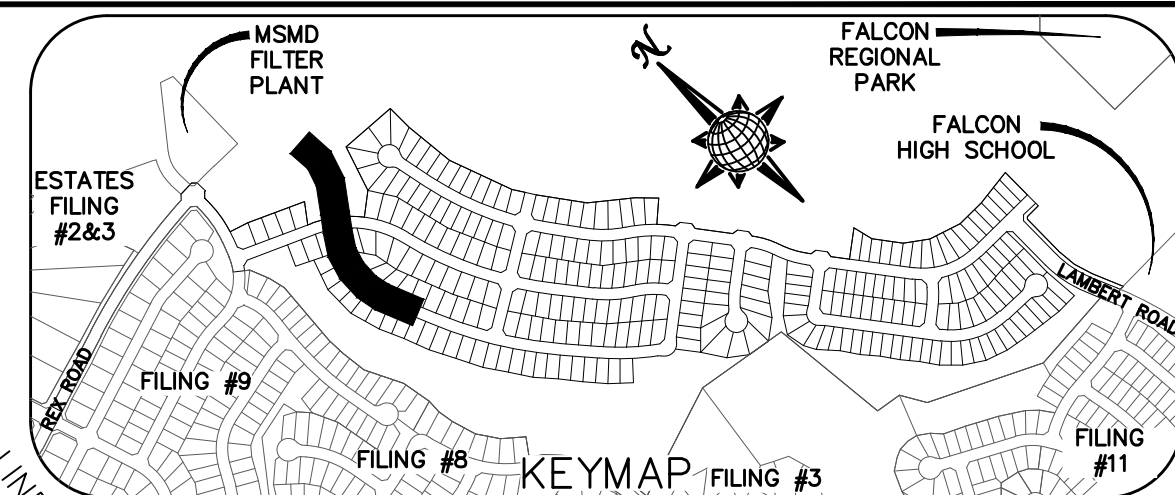
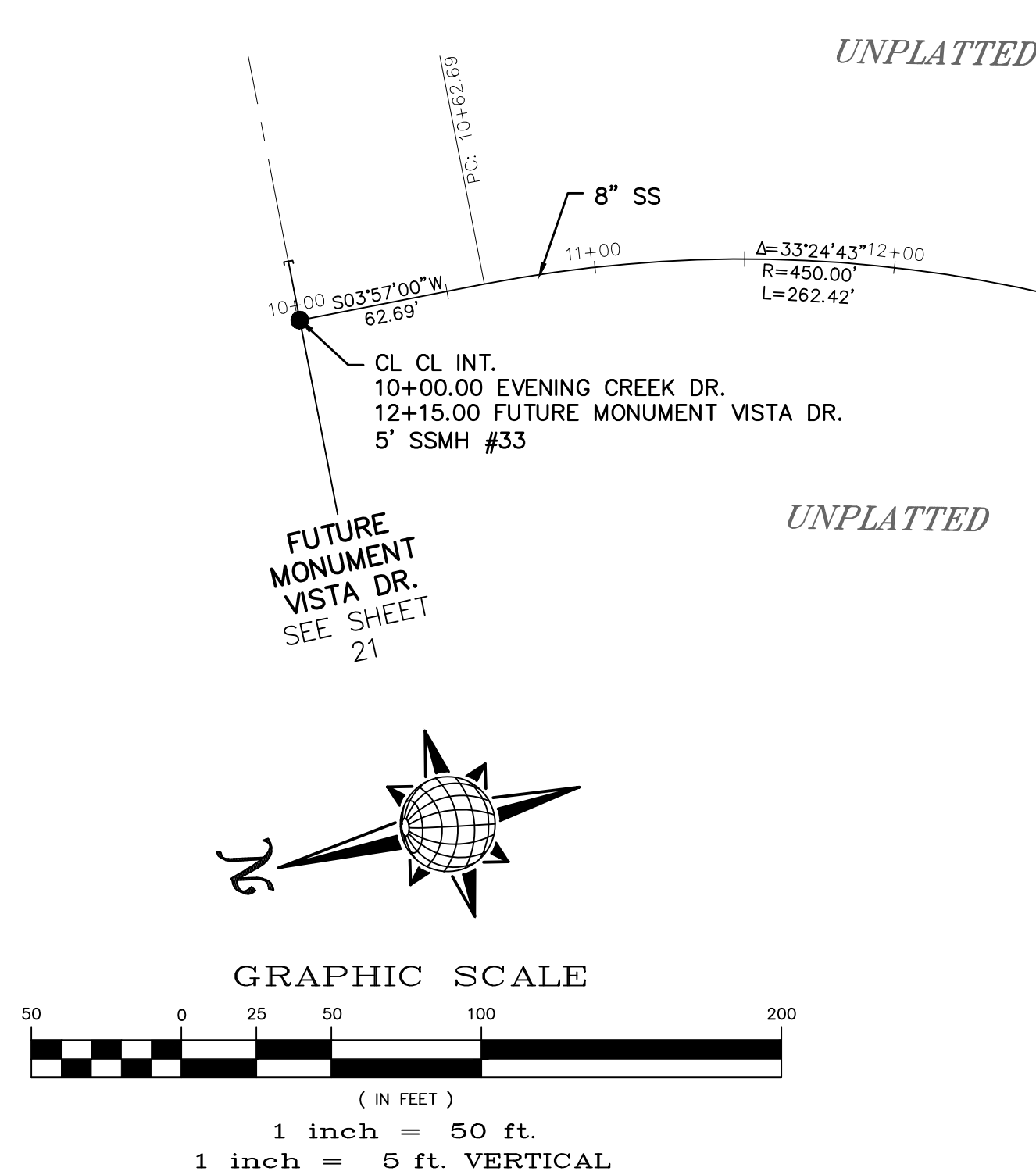
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	Checked by	TAK
	Date	NOV 2019





INSTALL CROSS PAN
PER COUNTY STD
SD-2-26

- $$\begin{aligned} \textcircled{1} &= 7115.70 \\ \textcircled{2} &= 7115.53 \\ \textcircled{3} &= 7115.37 \end{aligned}$$


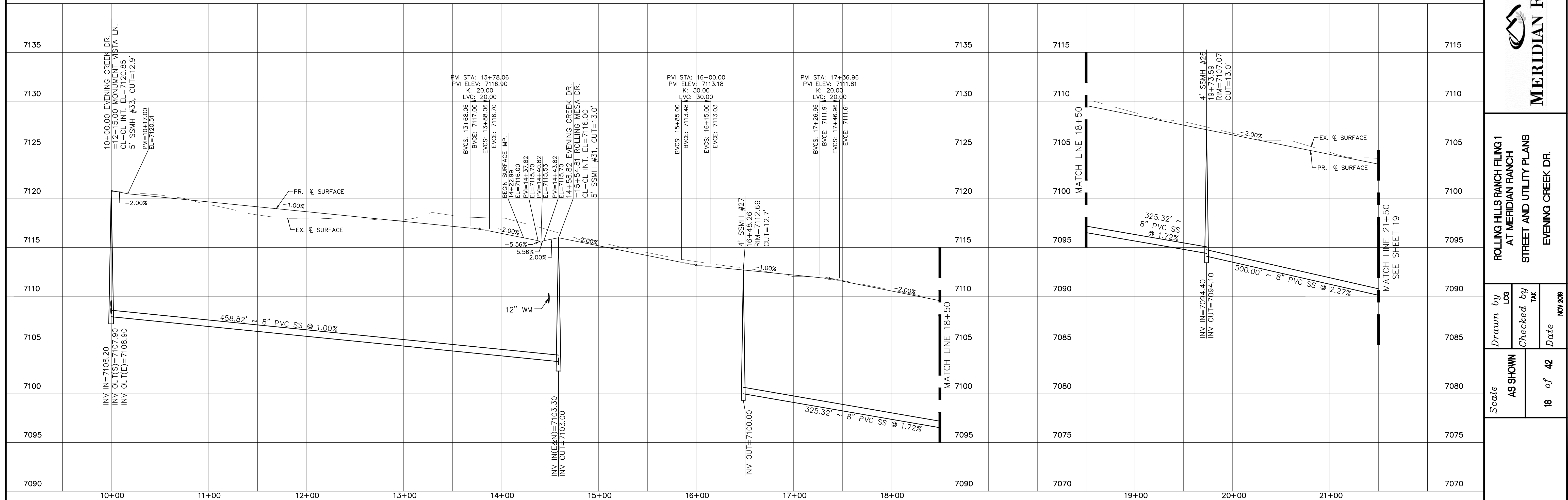


CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
38	29.40'	19.50'	86°23'10"
39	29.40'	19.50'	86°23'10"
40	32.04'	19.50'	94°08'10"
41	32.04'	19.50'	94°08'10"

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

EVENING CREEK DR.

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



MERIDIAN RANCH

ROLLING HILLS RANCH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
EVENING CREEK DR.

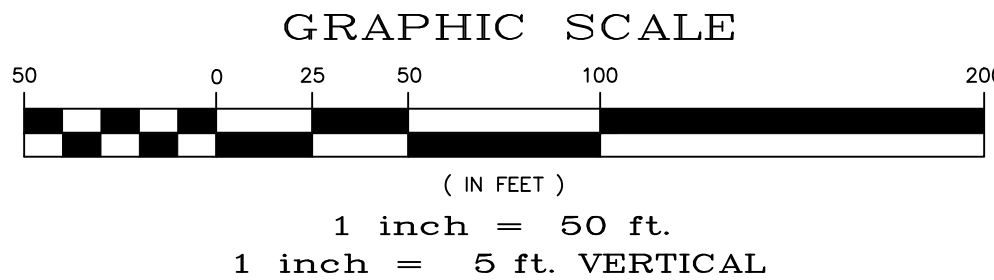
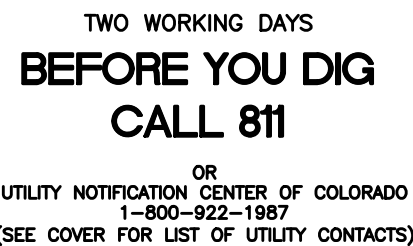
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18 of 42	Date
	NOV 2019

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2	-			
3	-			
4	-			
No.	Revisions	Date	Invt.	Appr.

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

PCD PROJECT NO. SF-XX-XXX

\\OneDrive\Civil\Proj\Rolling Hills Filing\DWG\Plan Sheets\IMPROVEMENT PLANS\02-RH1.dwg, 11/15/2019 9:49:10 AM



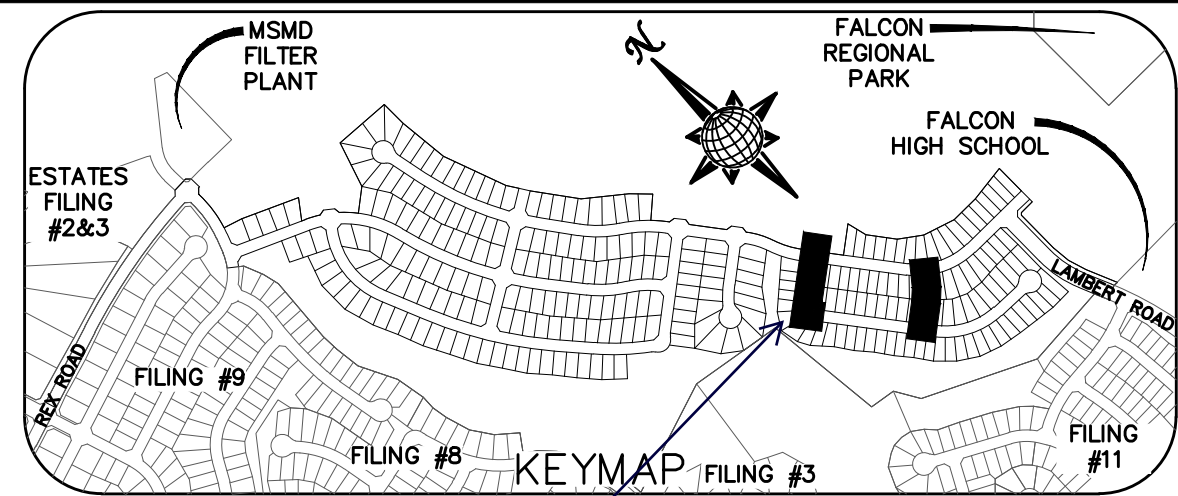
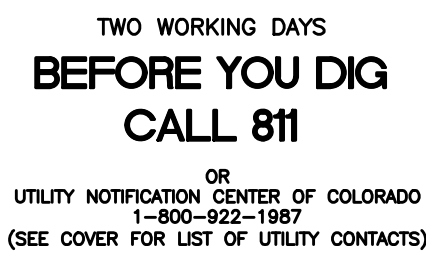
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FALCON, CO 80831
TELEPHONE: 719.495.7444
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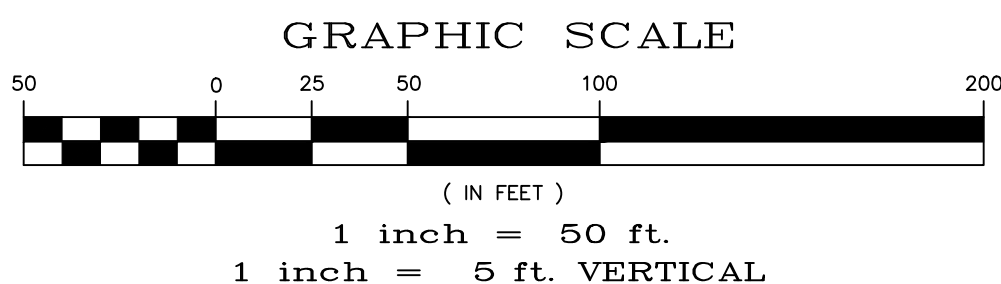
MERIDIAN RANCH

ROLLING HILLS RANCH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
EVENING CREEK DR.

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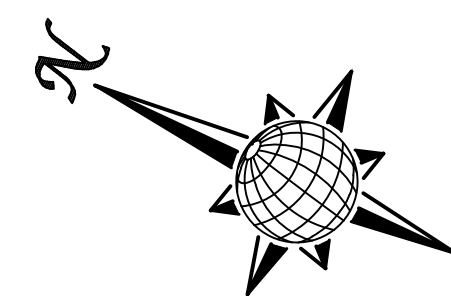
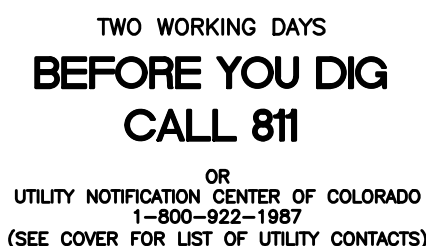


ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)

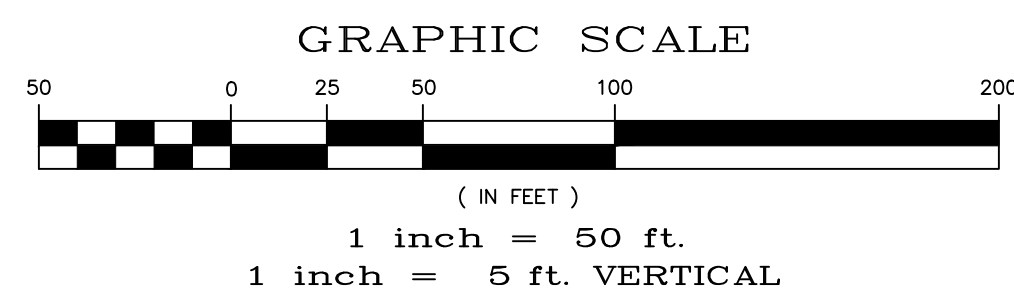


URBAN LOCAL
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

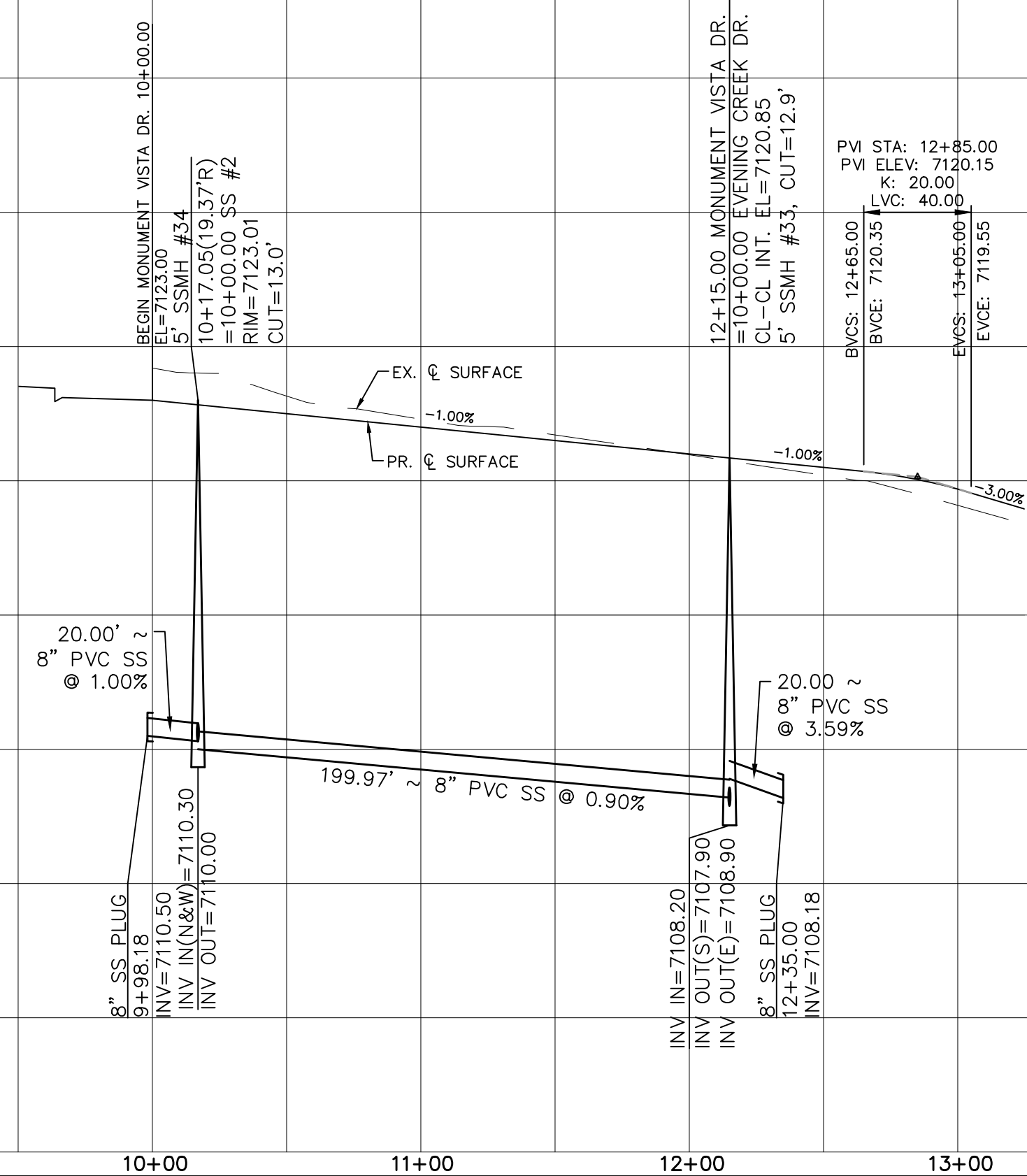
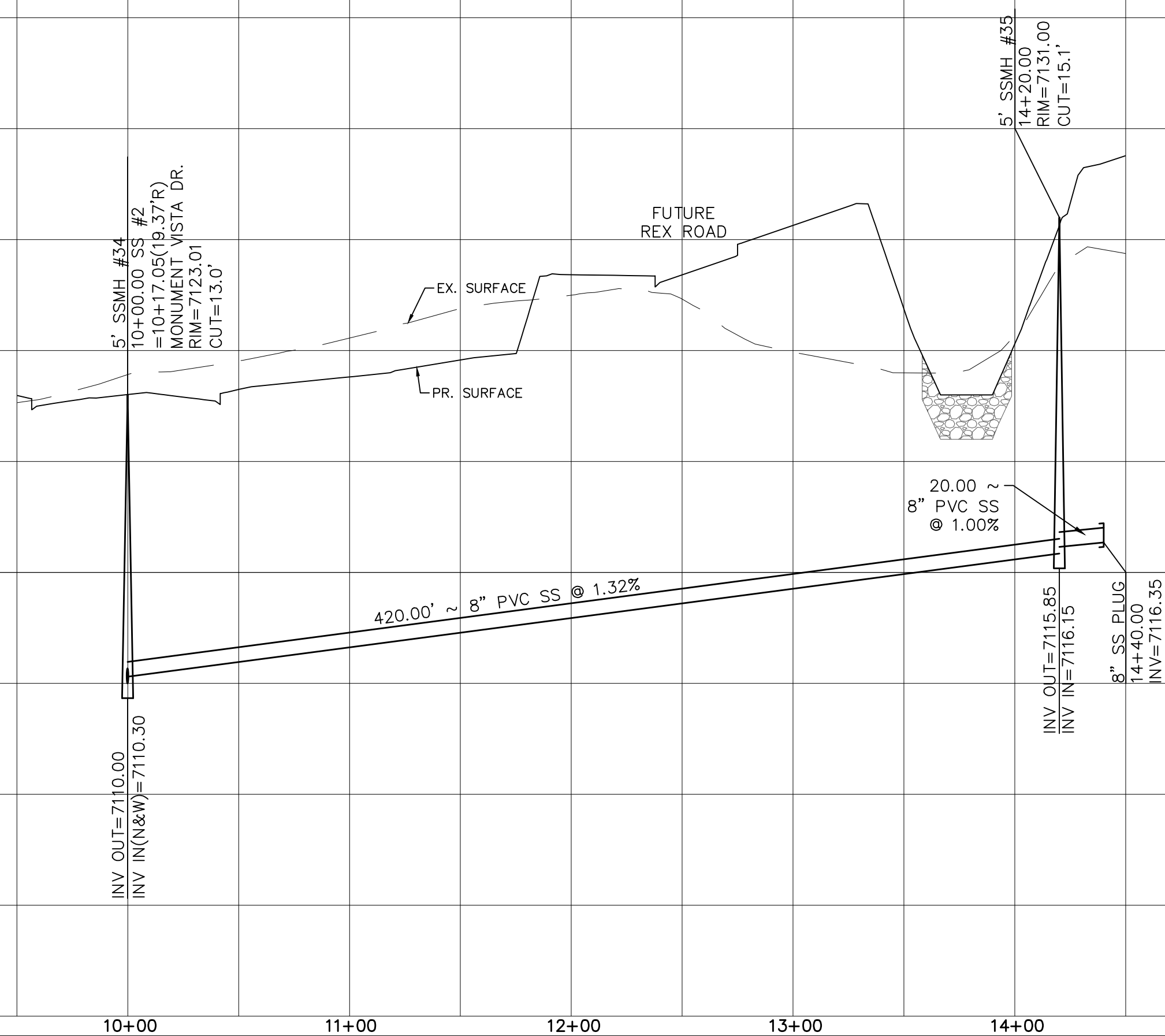
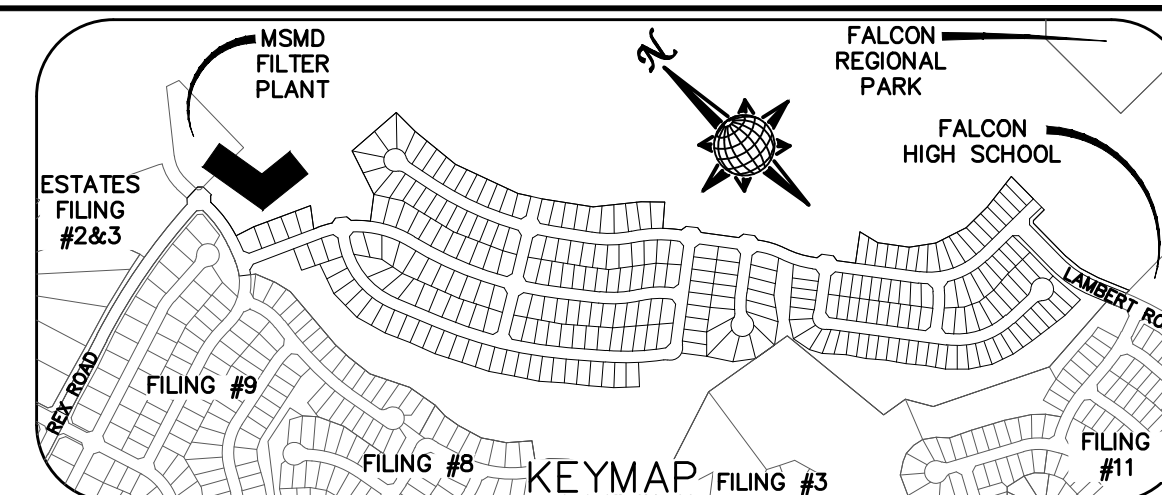





SS #2



FUTURE MONUMENT VISTA DR.

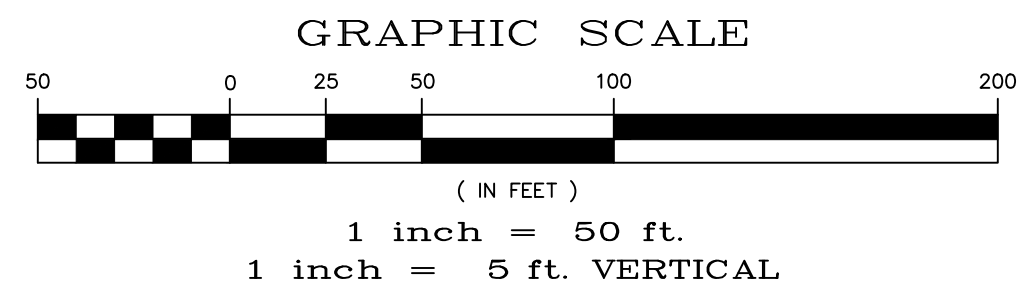
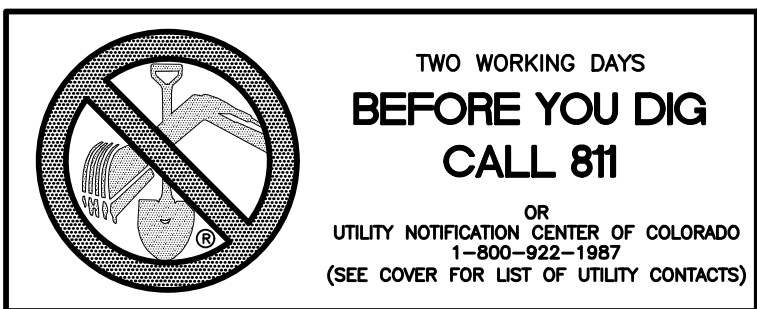


<div>Scale</div> <div>AS SHOWN</div> <div>21 of 42</div>	Drawn by	<div>ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS MONUMENT VISTA DR. + SS #2</div>	<div> MERIDIAN RANCH</div>	<div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>	1	-		
	LOG				2	-		
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NOV 2019								

A detailed keymap of the Falcon Regional Park area. The map shows a network of roads, including MS Road and 940. Several areas are labeled: 'ESTATES FILING #2&3' on the left, 'FILING #9' in the center-left, 'FILING #8' in the center, 'FILING #3' in the center-right, and 'FILING #11' on the right. A large area on the right is labeled 'FALCON HIGH SCHOOL'. At the top right is 'FALCON REGIONAL PARK'. At the top left is 'MSMD FILTER PLANT'. A north arrow is located in the upper center. A thick black line highlights a specific area within Filing #11.

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

- Given the proximity to the school:
 - Double check MUTCD but it seems appropriate to install crosswalk or stop bar at the Rolling Peaks and Park Gate Dr intersection.
 - Coordinate with the traffic engineer for additional school signage and striping that may be required for the Lambert Road extension and the proposed local roads.



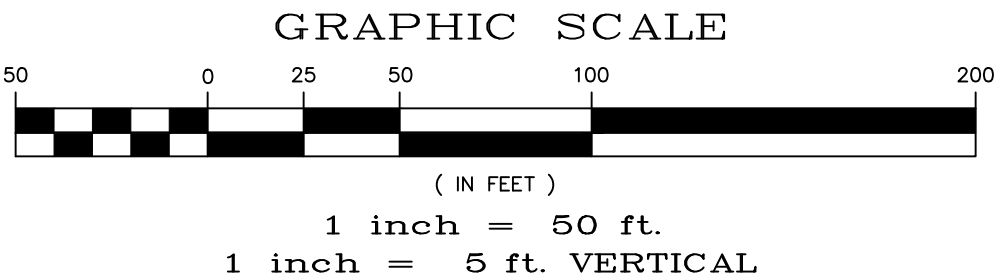
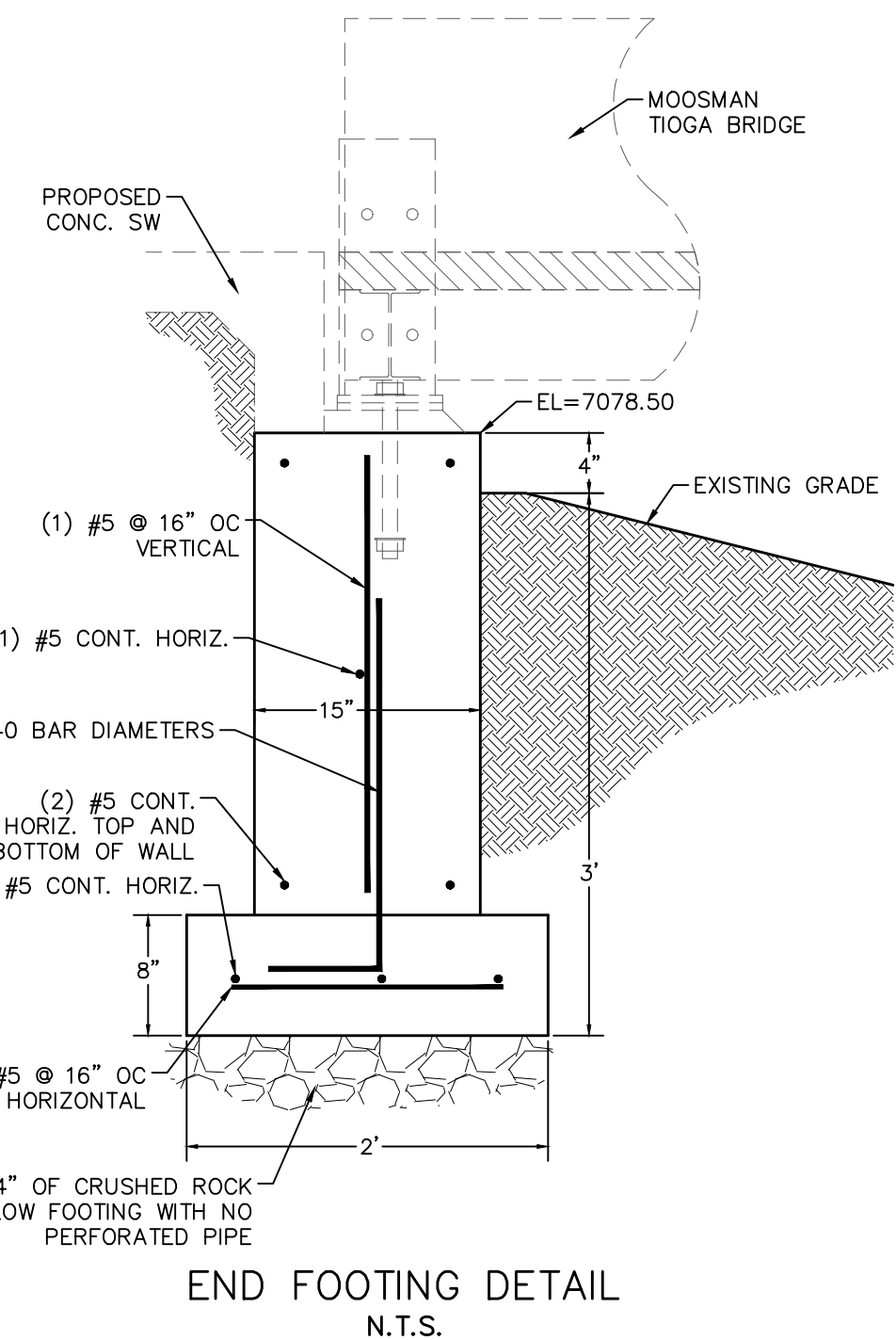
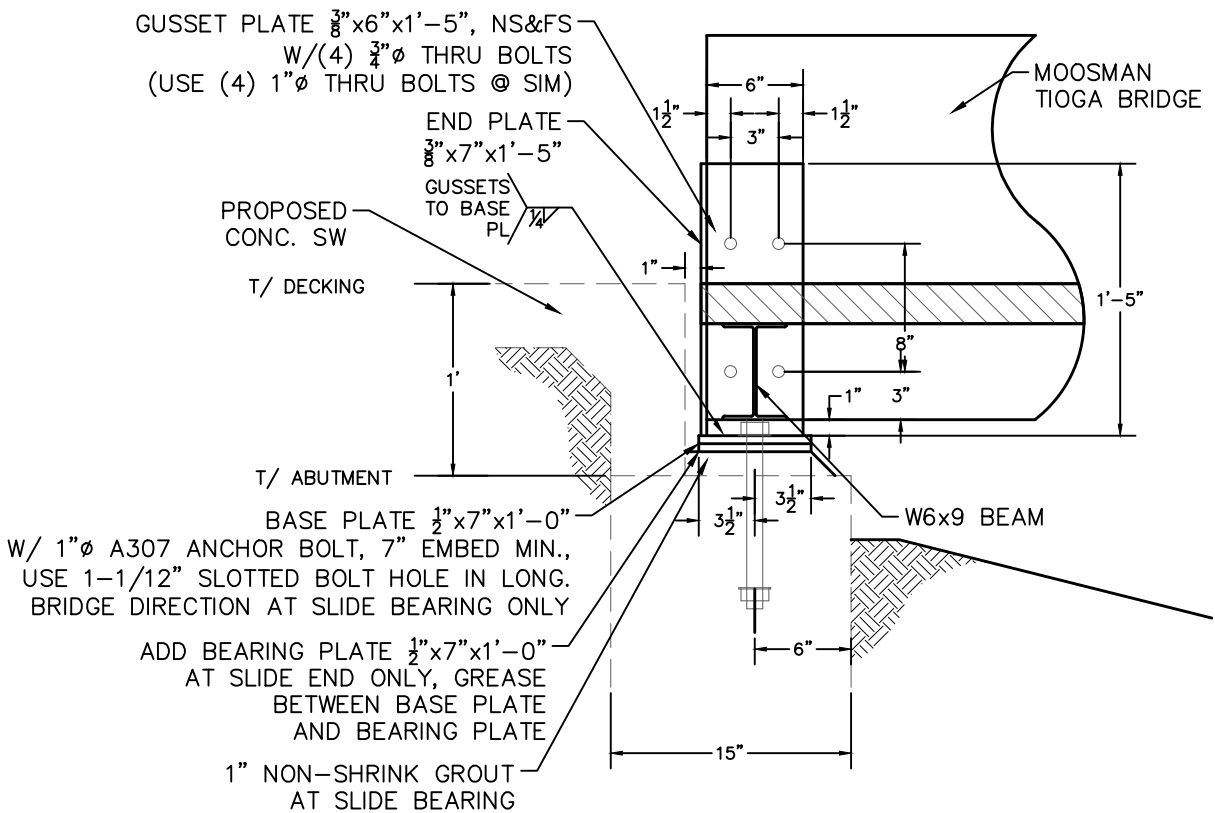
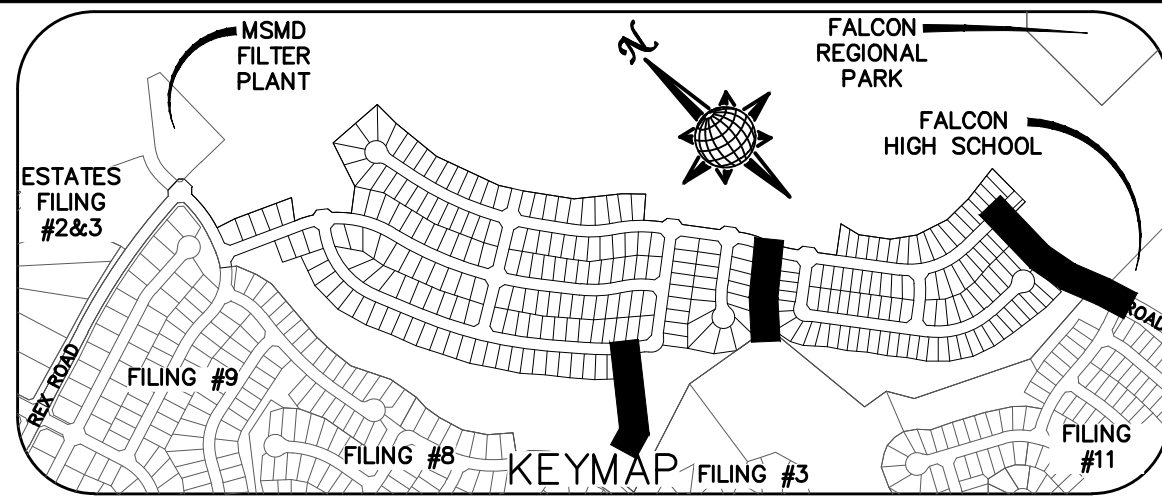
	Scale AS SHOWN	Drawn by	ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS SIGNAGE AND STRIPING	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1					
		LOGS				2					
		Checked by				3					
		TAK				4					
		22 of 42	Date	NOV 2019			No.	Revisions	Date	Invt.	Appr.

6' SIDEWALK PLAN

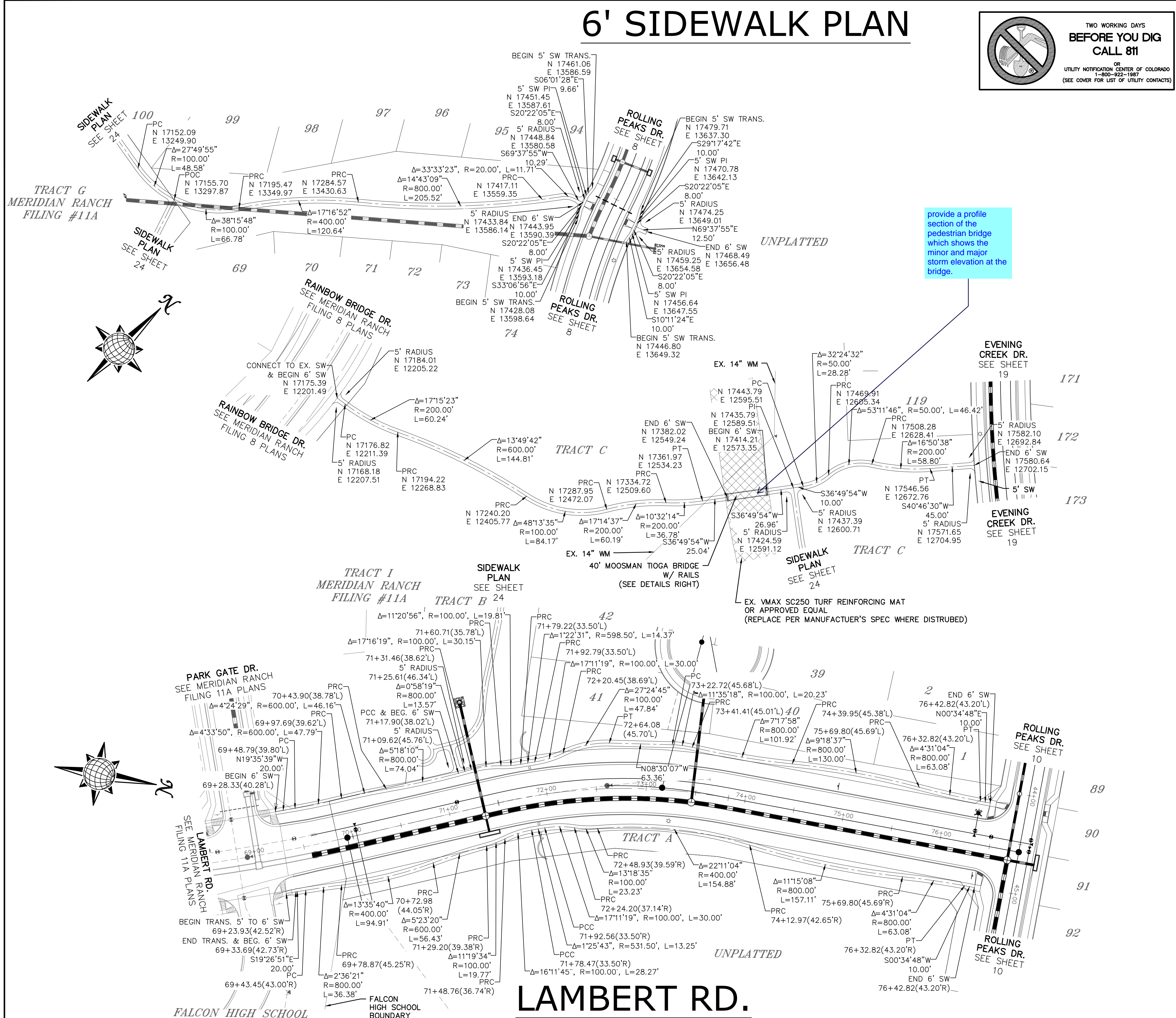


TWO WORKING DAYS
BEFORE YOU DIG
CALL 811

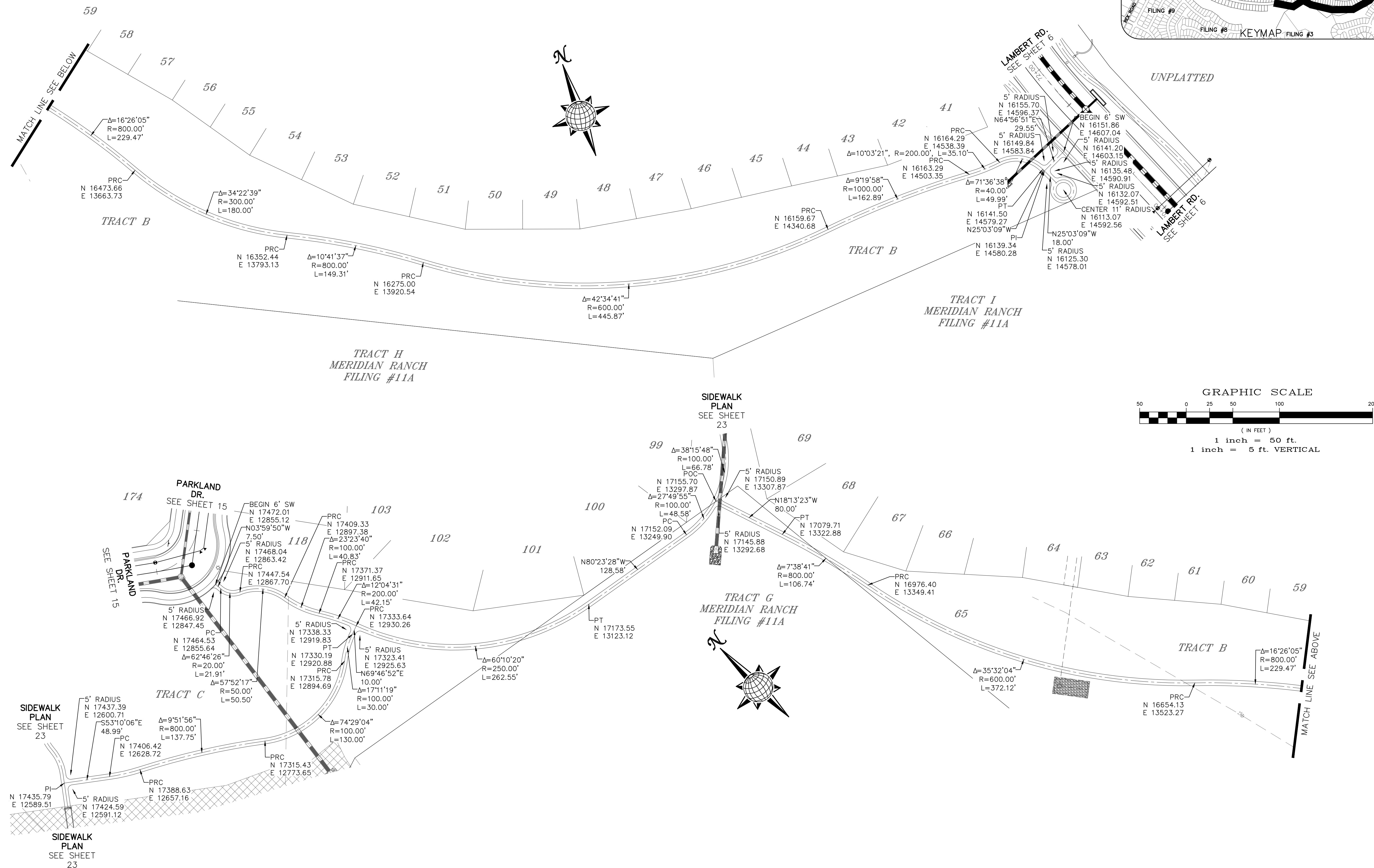
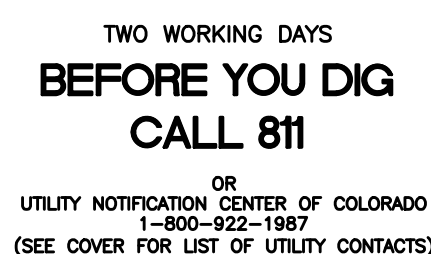
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)



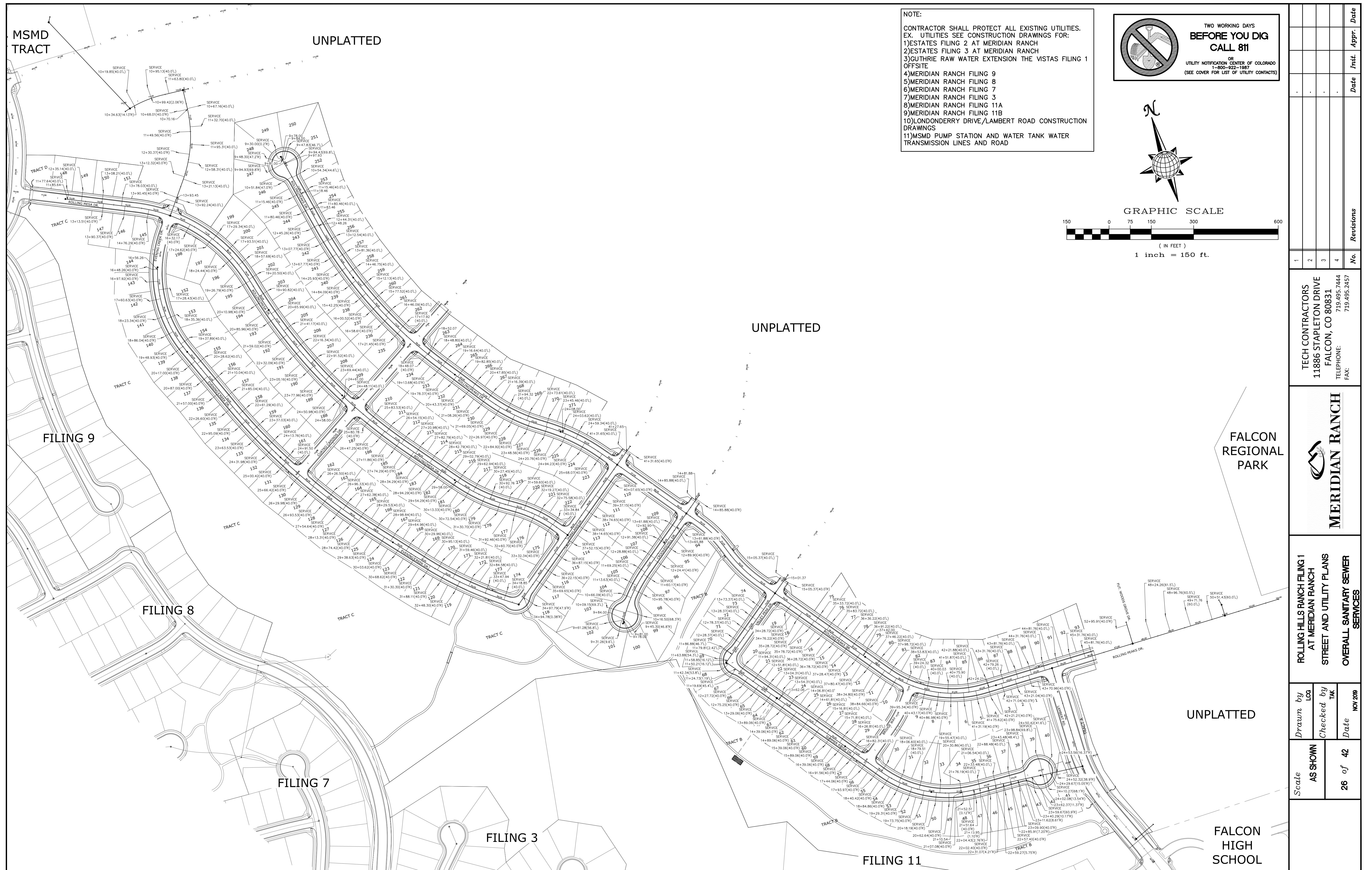
provide a profile
section of the
pedestrian bridge
which shows the
minor and major
storm elevation at the
bridge.

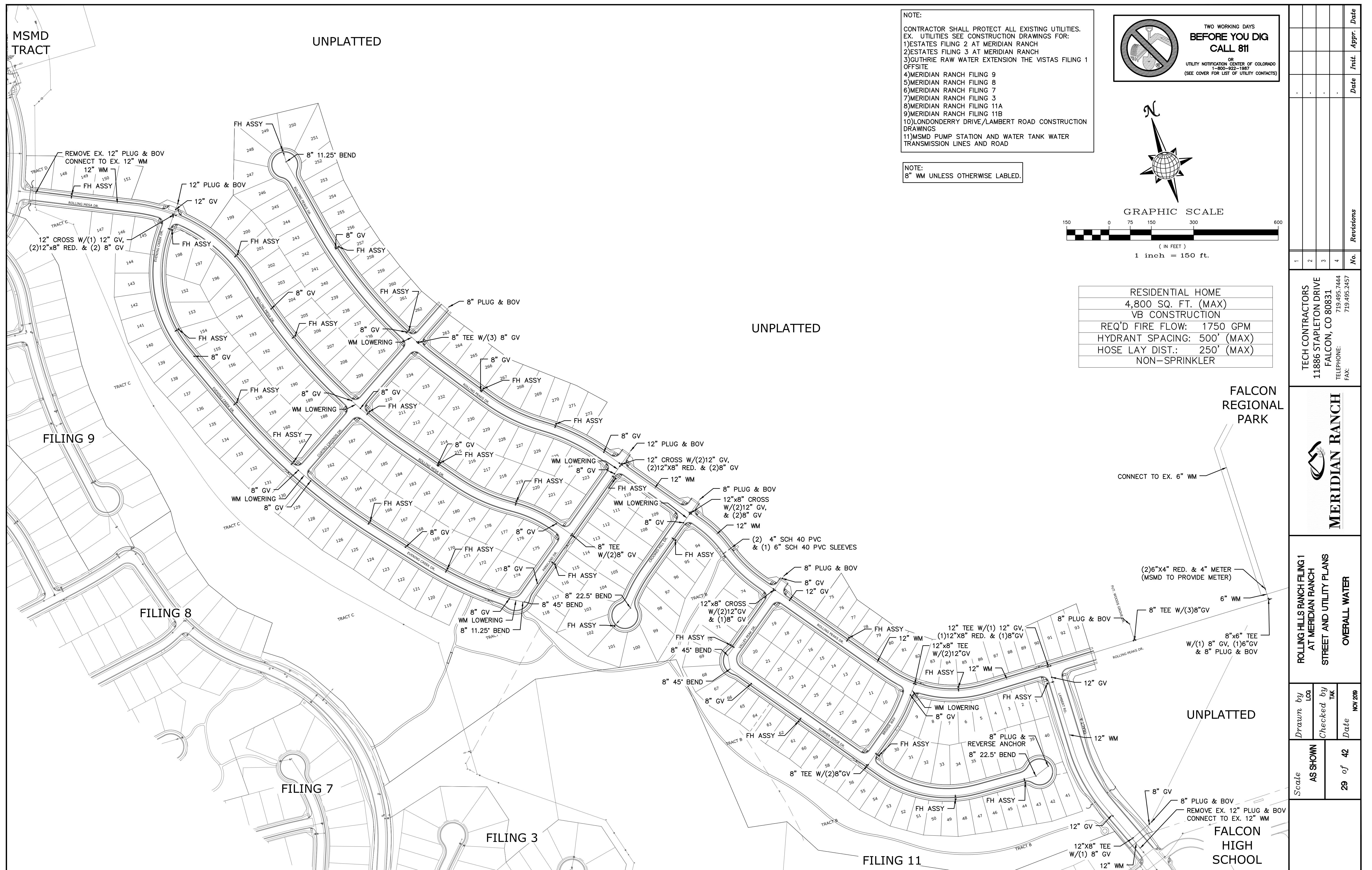


Date		Appr.		Date		Init.		Revisions		No.	
TECH CONTRACTORS											
11886 STAPLETON DRIVE											
FALCON, CO 80831											
TELEPHONE 719.495.7444											
FAX 719.495.2457											
MERIDIAN RANCH											
ROLLING HILLS RANCH FILING 1											
AT MERIDIAN RANCH											
STREET AND UTILITY PLANS											
SIDEWALK PLAN											
Drawn by	Log	Checked by	TAK	Date	NOV 2019						
Scale	AS SHOWN		23	of	42						



<div>Scale</div> <div>AS SHOWN</div> <div>24 of 42</div>	Drawn by LOG	<div>ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS SIDEWALK PLAN</div>	<div><div>MERIDIAN RANCH</div></div>	<div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>	1					
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UNPLATTED

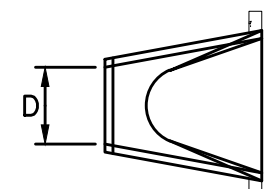
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:

- 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)MERIDIAN RANCH FILING 8
- 6)MERIDIAN RANCH FILING 7
- 7)MERIDIAN RANCH FILING 3
- 8)MERIDIAN RANCH FILING 11A
- 9)MERIDIAN RANCH FILING 11B
- 10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
- 11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

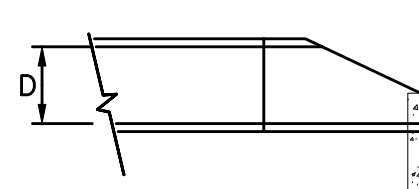


(IN FEET)

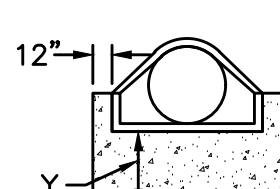
1 inch = 150 ft.



PLAN

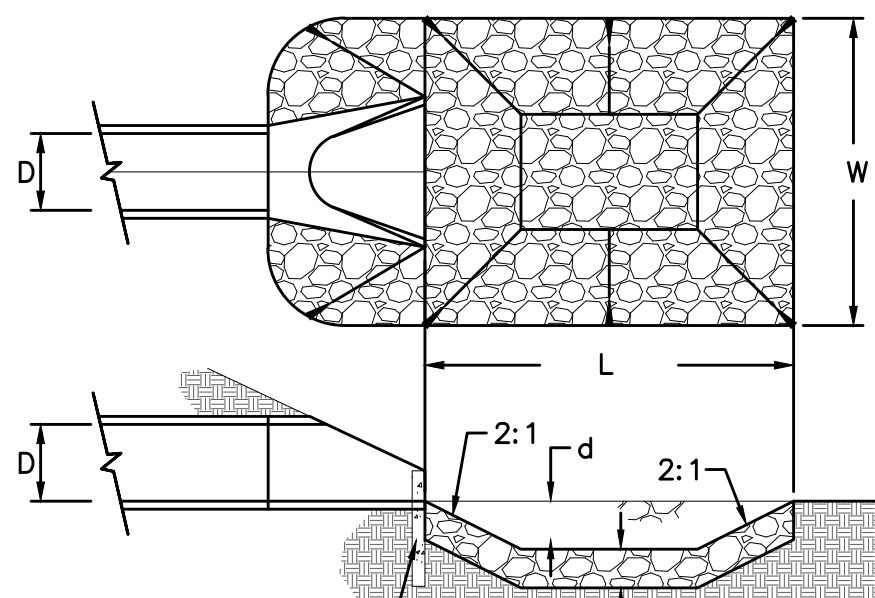


PROFILE



END VIEW

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



CUTOFF WALL -
(SEE DETAIL HS-19a)

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

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 ₅₀	CY	Y	NOTES
STORM #1	36"	12.0	12.0	1.0	M	1.0'	14.5	3.0'	SEE ABOVE

STORM #1

FILING 9

FILING 8

FILING 7

FILING 3

FILING 11

FALCON
REGIONAL
PARK

UNPLATTED

FALCON
HIGH
SCHOOL



**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)

Revisions	Date		Inst.	Appr.	Date
		-			
		-			
		-			
		-			

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



MERIDIAN RANCH

**ROLLING HILLS RANCH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
OVERALL STORM DRAIN**

Scale AS SHOWN	Drawn by LOG
	Checked by TAK
31 of 42	Date NOV 2019

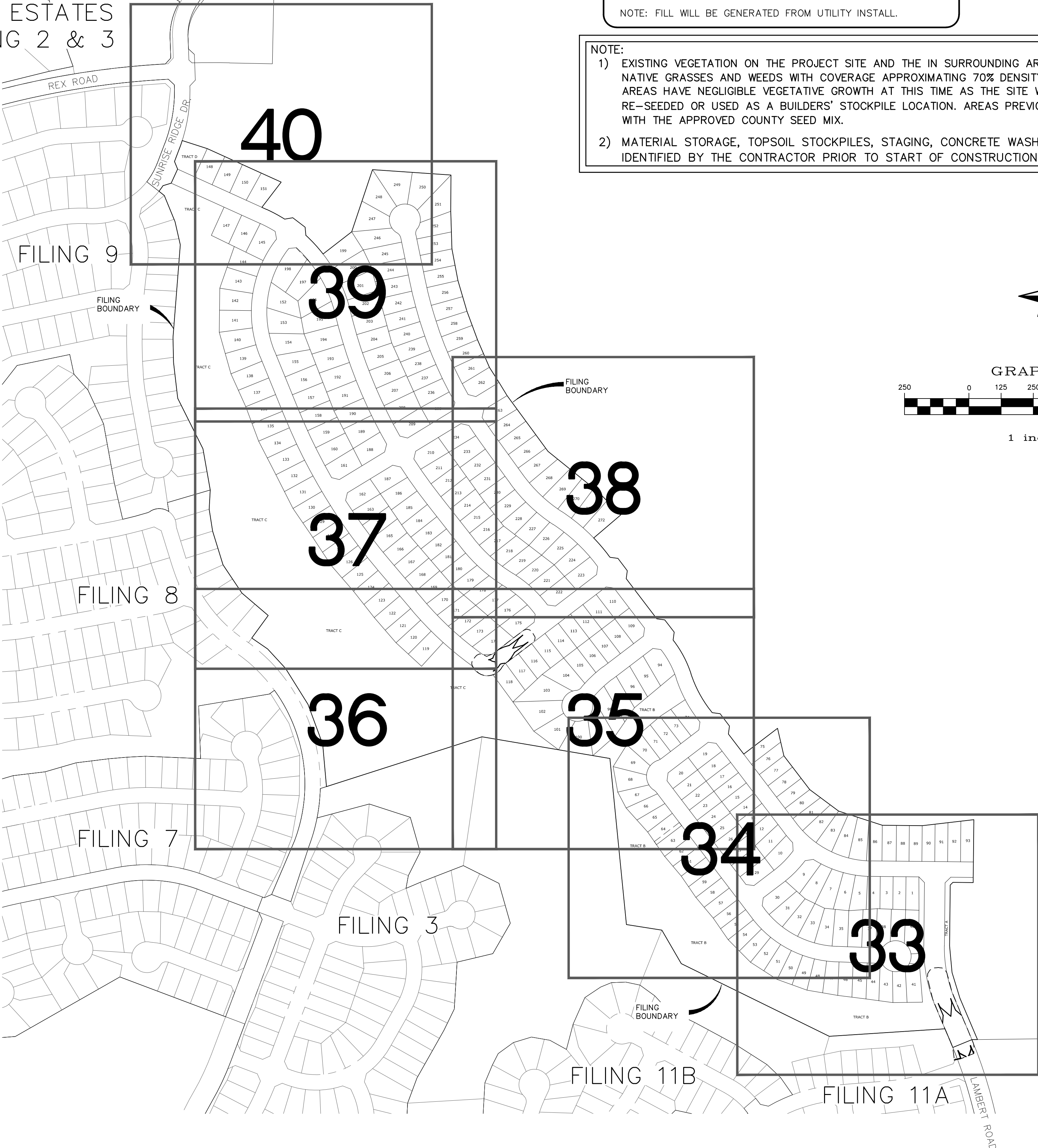
EL PASO COUNTY STANDARD NOTES:

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 STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS, ESTABLISHED OR EQUIVALENT PERMANENT 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 MEASURE(S).
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1341) 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 CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

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

THE ESTATES
AT ROLLING HILLS RANCH
FILING 1

THE ESTATES
FILING 2 & 3



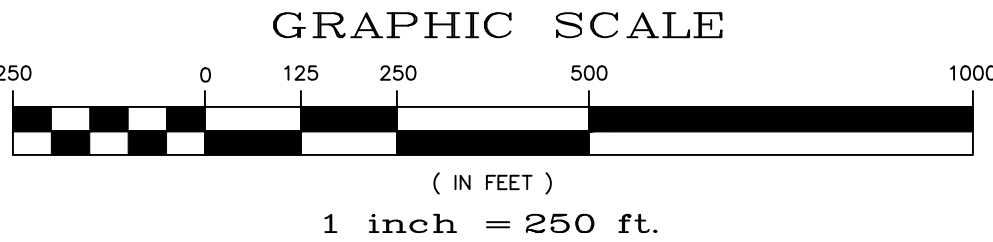
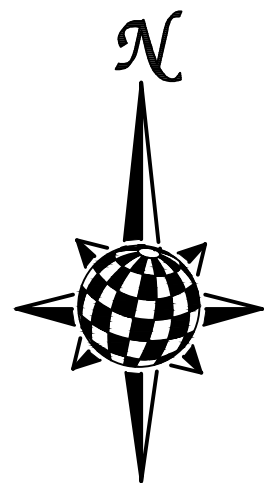
EARTHWORK QUANTITIES

NET YARDS BALANCE
TOTAL STRIPPINGS 0.00 AC. 000 CY
NET YARDS CUT 0 CY FILL 8,200 CY
20% COMPACTION FACTOR

NOTE: FILL WILL BE GENERATED FROM UTILITY INSTALL.

NOTE:

- 1) EXISTING VEGETATION ON THE PROJECT SITE AND THE IN SURROUNDING AREAS CONSISTS OF A MIXTURE OF NATIVE GRASSES AND WEEDS WITH COVERAGE APPROXIMATING 70% DENSITY UNLESS OTHERWISE NOTED. SOME AREAS HAVE NEGLIGIBLE VEGETATIVE GROWTH AT THIS TIME AS THE SITE WAS PREVIOUSLY GRADED AND RE-SEEDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDED WITH THE APPROVED COUNTY SEED MIX.
- 2) MATERIAL STORAGE, TOPSOIL STOCKPILES, STAGING, CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY.



FALCON
REGIONAL
PARK

FALCON
HIGH SCHOOL

No.	Revisions	Date	Appr.	Date
1				
2				
3				
4				

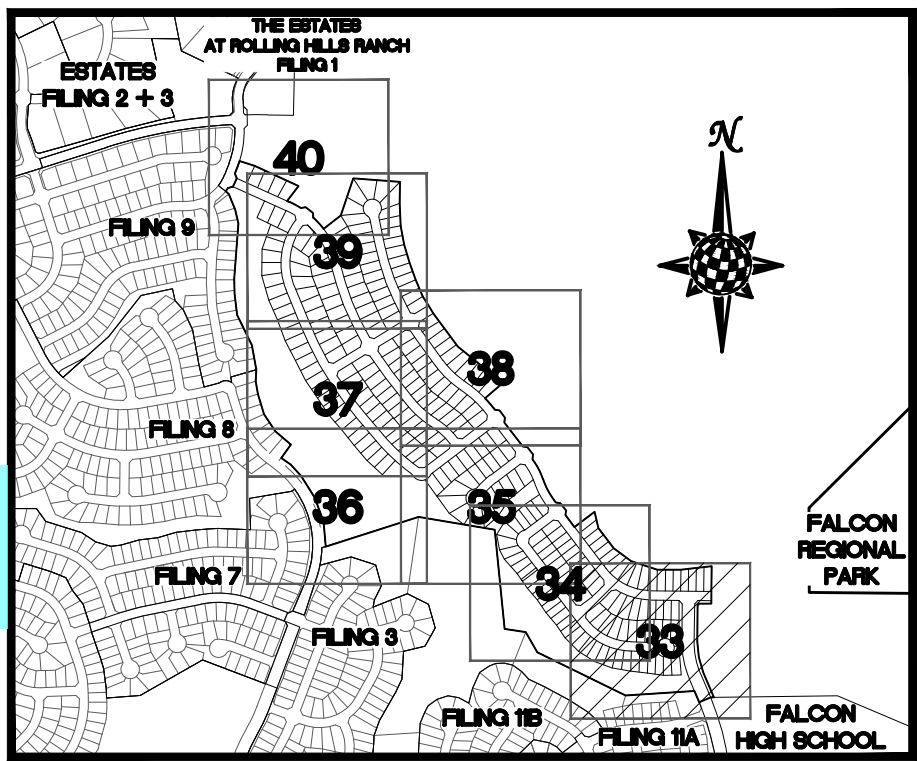
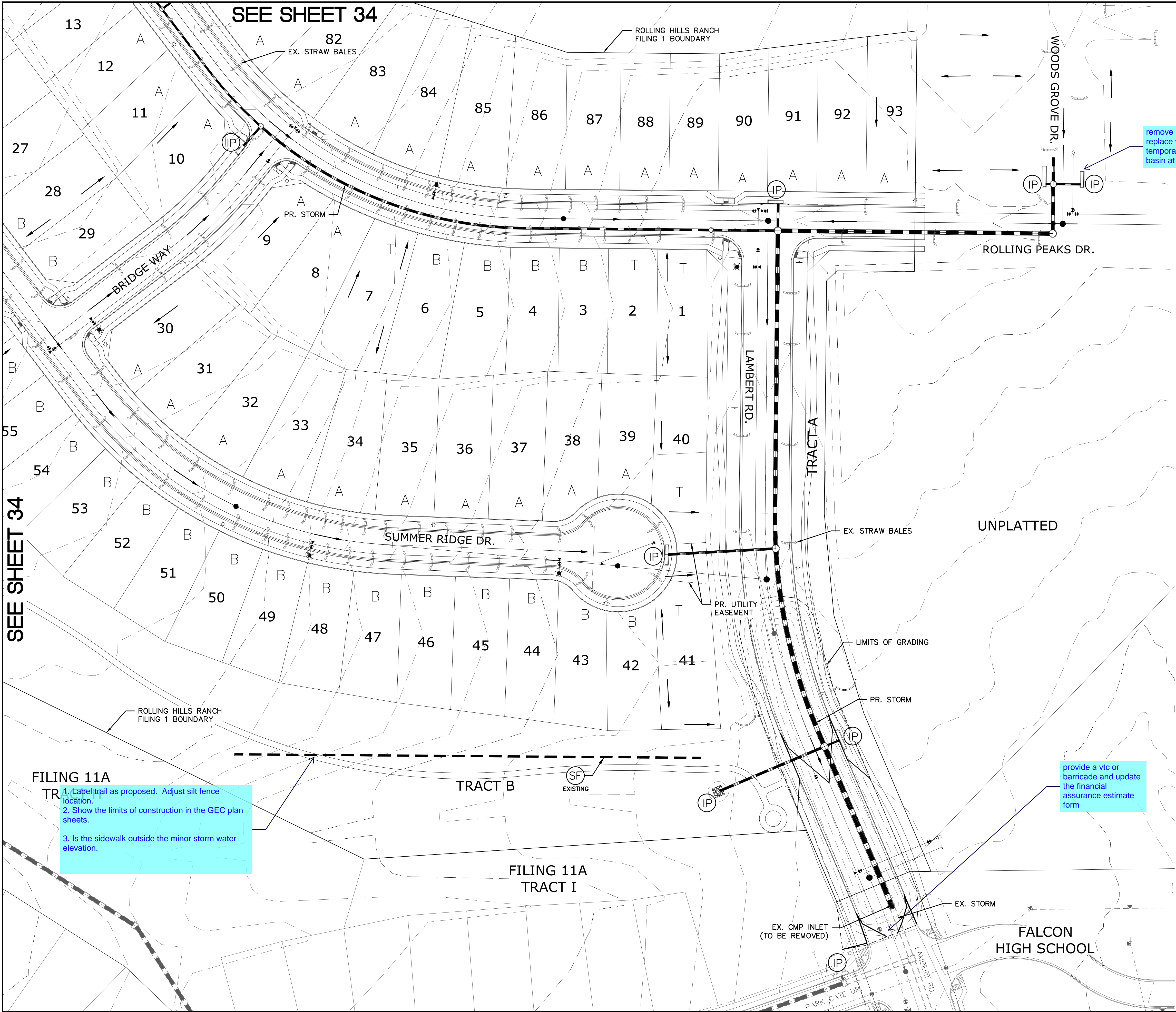
TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE 719.495.7444
FAX 719.495.2457

MERIDIAN RANCH

ROLLING HILLS RANCH FILING 1
AT MERIDIAN RANCH
GRADING/EROSION CONTROL PLAN
INDEX SHEET

Drawn by LCA
Checked by TMC
Date NOV 2019

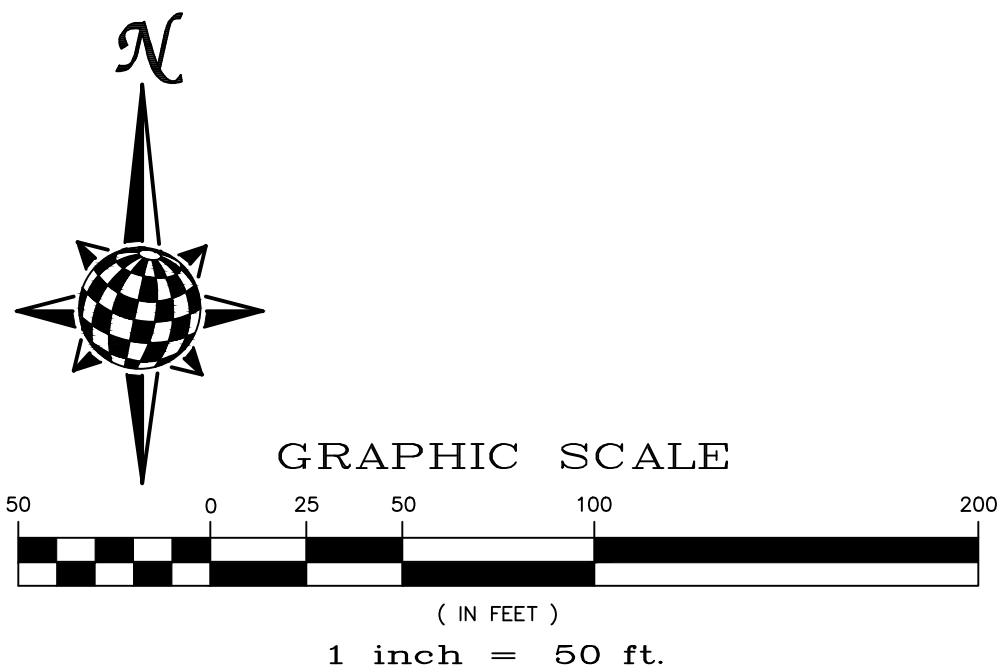
Scale AS SHOWN
32 of 42



INDEX MAP
N.T.S.

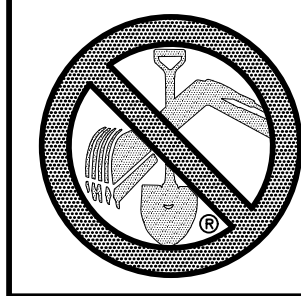
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 42
		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
	UTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 42
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE



NOTE:
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ARE TO FINISHED SURFACE. ALL STREET
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TYPICAL STREET SECTION SHOWN ON SHEET 41.

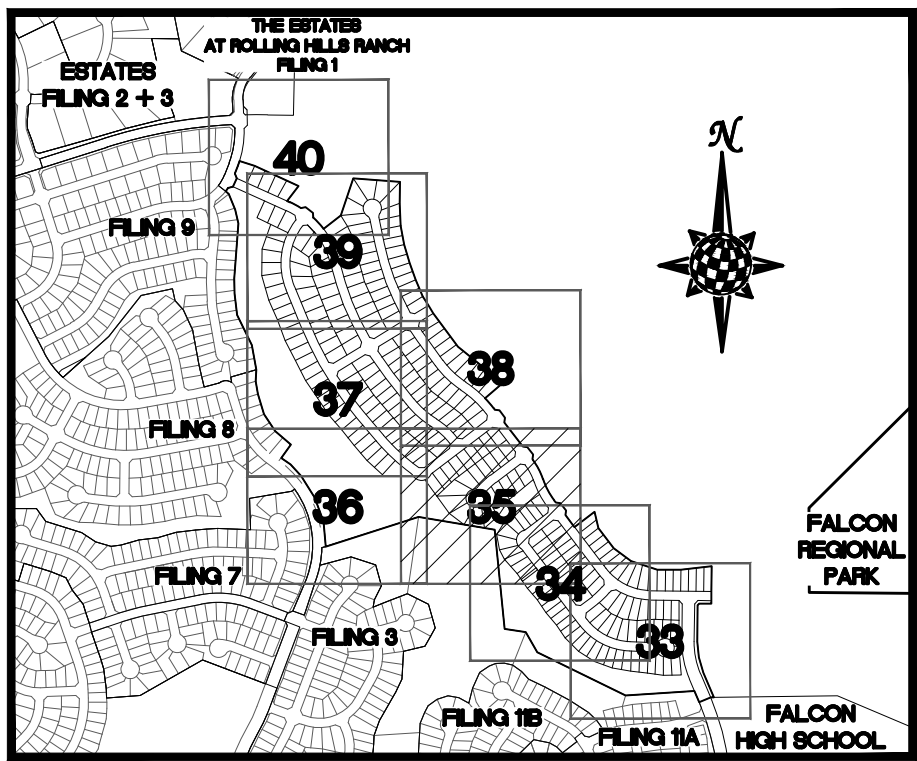
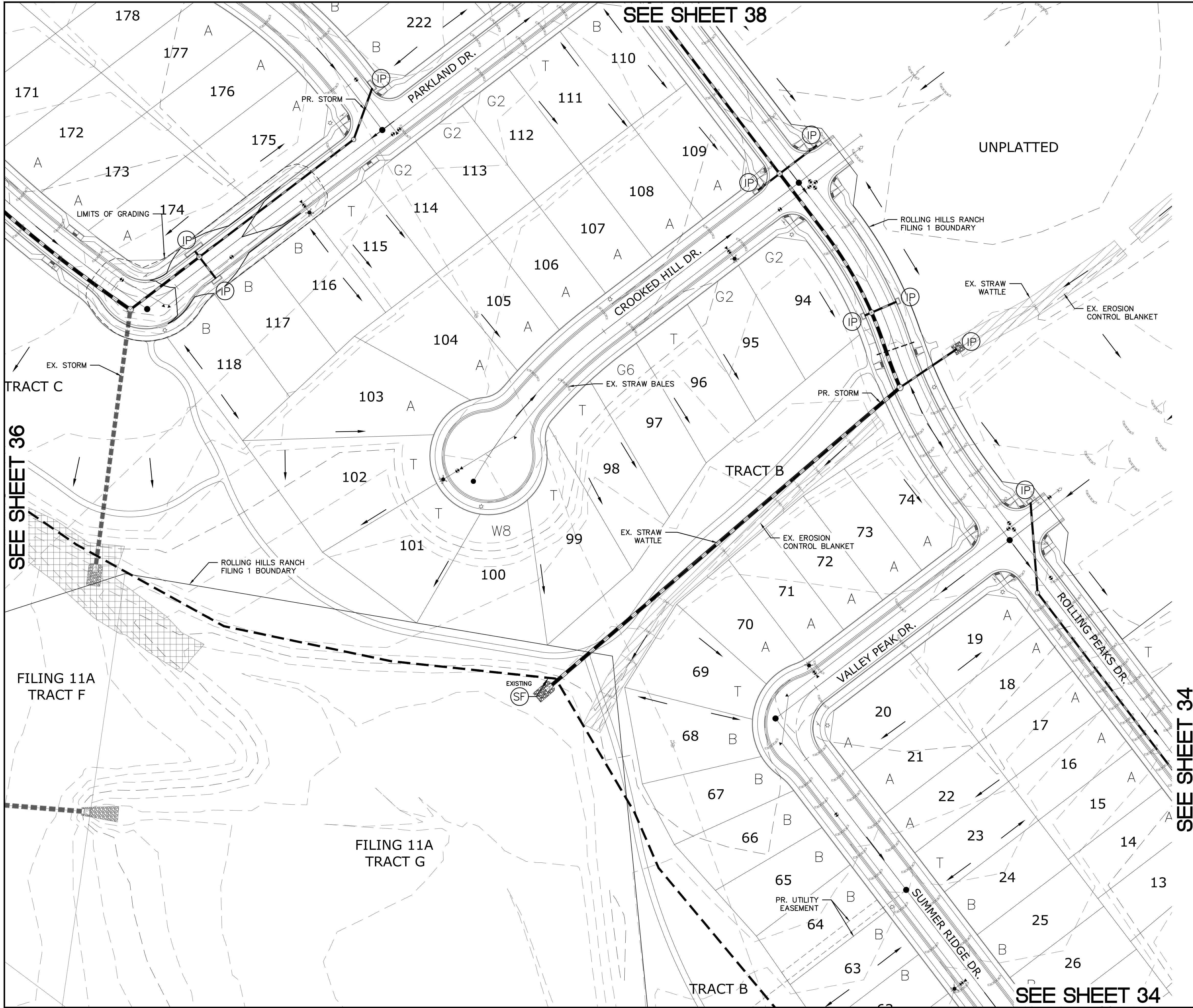
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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)ESTATES FILING 2 AT MERIDIAN RANCH
2)ESTATES FILING 3 AT MERIDIAN RANCH
3)GUTHRIE RAW WATER EXTENSION THE VISTAS
FILING 1 OFFSITE
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5)MERIDIAN RANCH FILING 8
6)MERIDIAN RANCH FILING 7
7)MERIDIAN RANCH FILING 3
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9)MERIDIAN RANCH FILING 11B
10)LONDONDERRY DRIVE/LAMBERT ROAD
CONSTRUCTION DRAWINGS
11)MSMD PUMP STATION AND WATER TANK
WATER TRANSMISSION LINES AND ROAD



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)

					Date
					Appr.
					Init.
					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					
ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH GRADING-EROSION CONTROL PLAN LAYOUT					
Drawn by	Log	Checked by	TAK	Date	NOV 2019
Scale	AS SHOWN		33	of	42

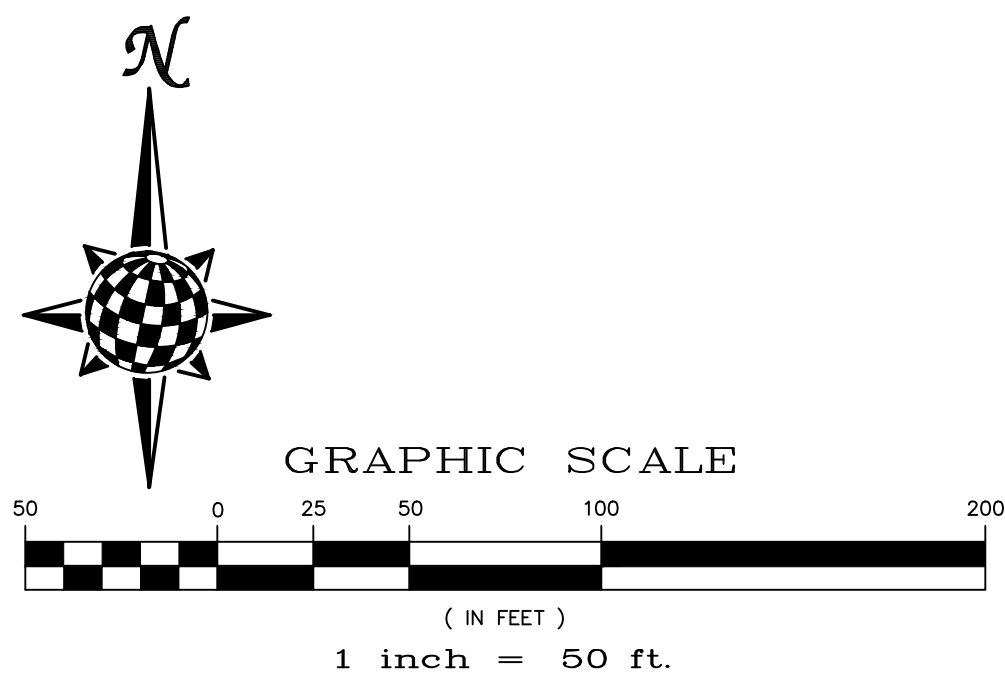


INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 42
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE



NOTE:
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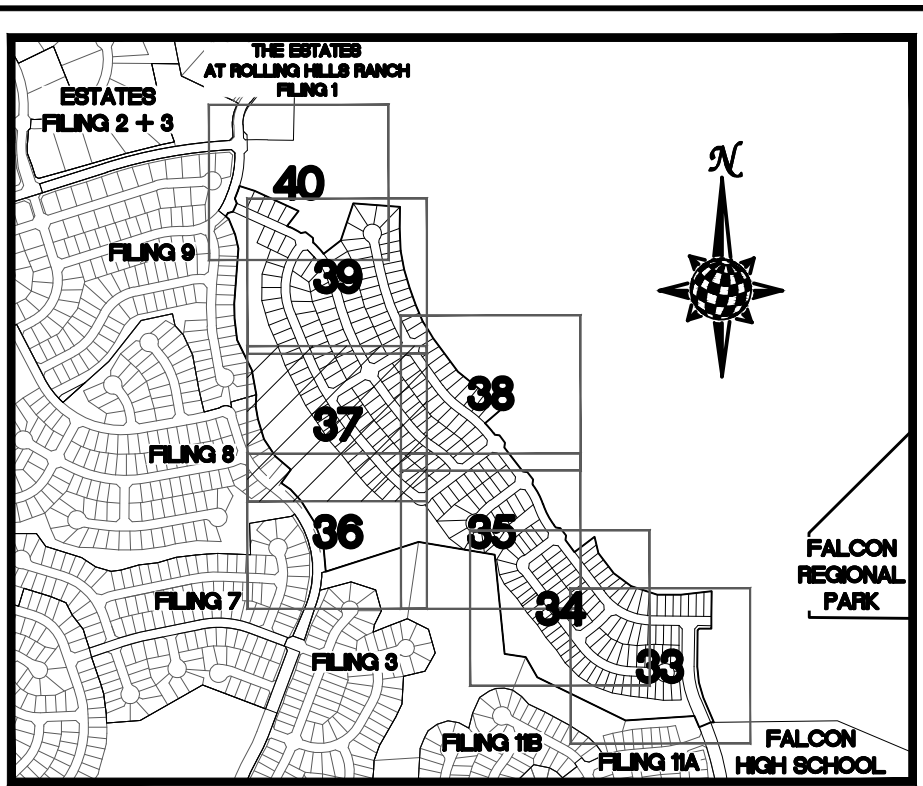
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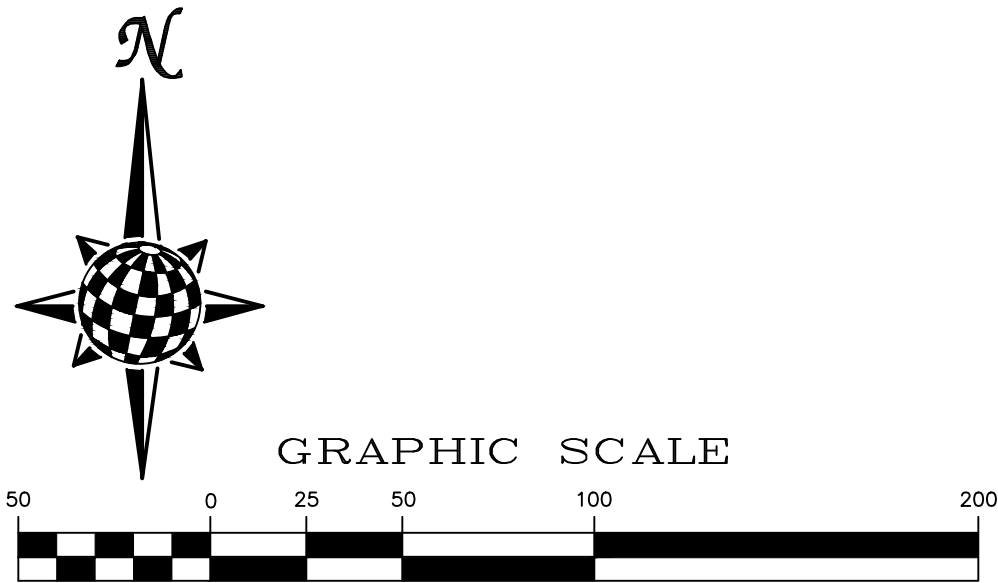
Revisions		Date	Init.	Appr.	Date
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TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
MERIDIAN RANCH					
ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN LAYOUT					
Drawn by	Log	Checked by	TAK	Date	NOV 2019
Scale	AS SHOWN	35	of	42	



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LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
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	IP	INLET PROTECTION PER DETAIL SHEET 42
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		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE



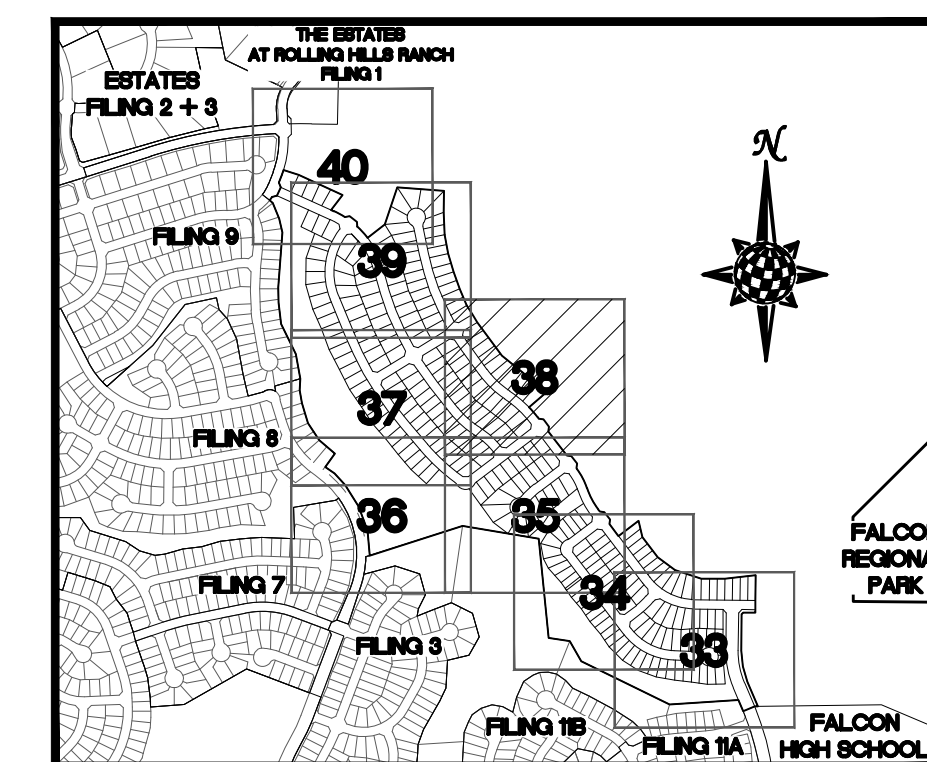
NOTE:
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




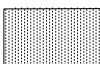



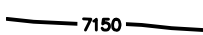
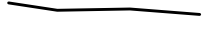
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				Date
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				Date
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TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
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Drawn by	Log	Checked by	TAK	Date
AS SHOWN				NOV 2019
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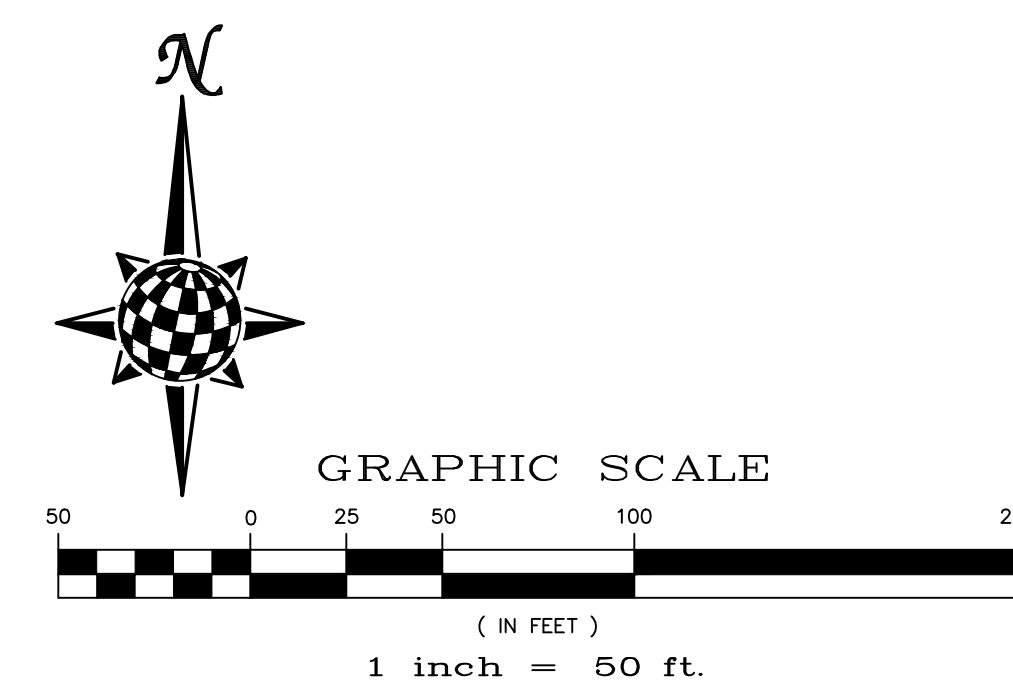


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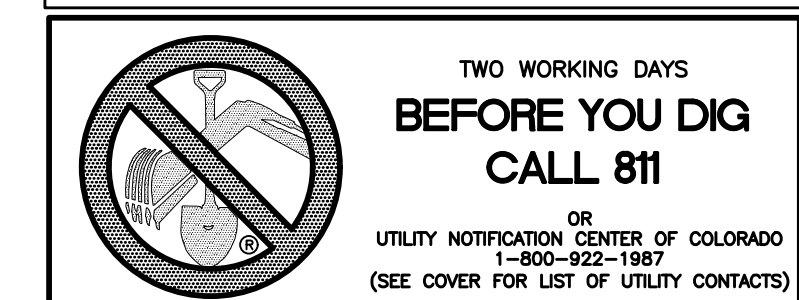
LEGEND


<u>SYMBOL</u>	<u>ACRONYM</u>	<u>DESCRIPTION</u>
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 42
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	(VTC)	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 42
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE

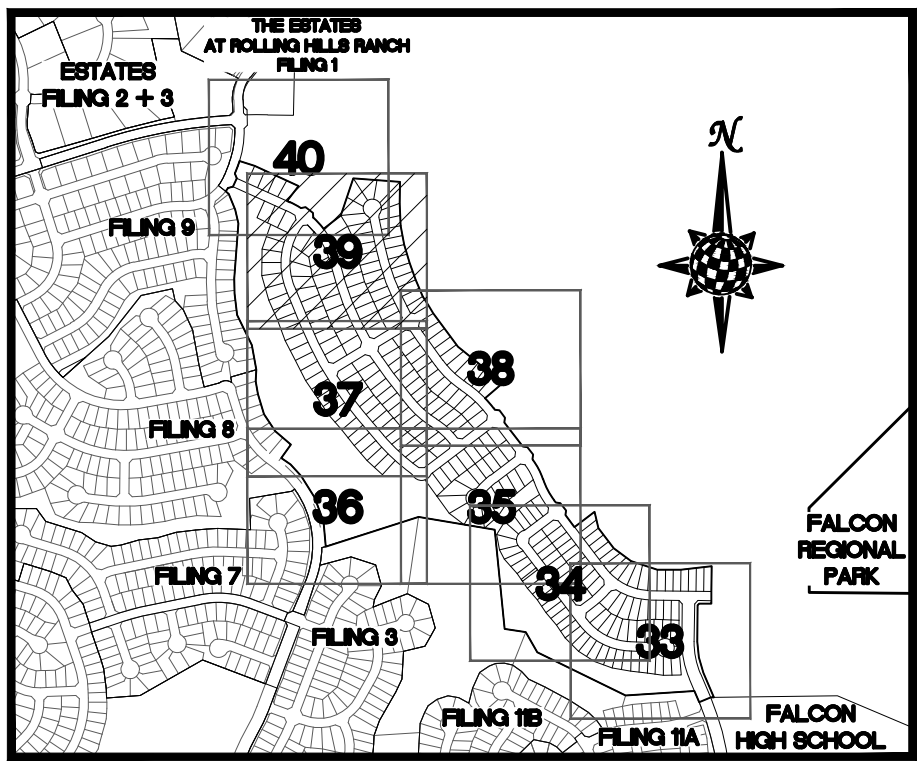


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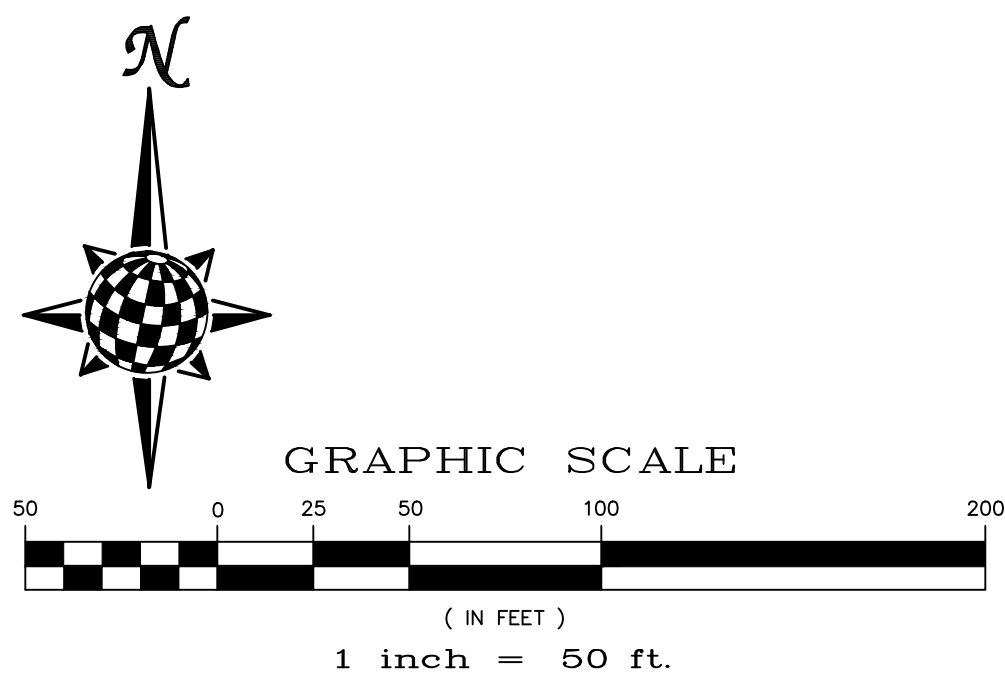
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	Checked by				2								
	TAK				3								
	Date				4								
	NOV 2019												
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N.T.S.


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				Revisions
1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457				
 MERIDIAN RANCH				
ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH GRADING-EROSION CONTROL PLAN LAYOUT				
Drawn by	Log	Checked by	TAK	Date
AS SHOWN				NOV 2019
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