

UTILITY CONTACTS:

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

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

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

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

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

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

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

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 SHOWN 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, MERIDIAN SERVICE METROPOLITAN AND EL PASO COUNTY BEING THE OWNERS OF THE FOLLOWING DESCRIBED TRACT OF LAND:

A PARCEL OF LAND LOCATED IN A PORTIONS OF SECTION 20, 21, AND 29, IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHEASTERN MOST CORNER OF TRACT C OF MERIDIAN RANCH ESTATES FILING NO. 9, RECORDED WITH RECEPTION NO. 216713763 IN THE RECORDS OF EL PASO COUNTY, POINT BEING ON A CURVE TO THE LEFT;

1. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 330.00 FEET, A DELTA ANGLE OF 04°41'46", AN ARC LENGTH OF 27.05 FEET, WHOSE LONG CHORD BEARS N35°45'37"E A DISTANCE OF 27.04 FEET;
2. THENCE N72°56'20"E A DISTANCE OF 32.99 FEET;
3. THENCE N24°30'35"E A DISTANCE OF 60.00 FEET;
4. THENCE N22°23'52"W A DISTANCE OF 32.06 FEET;
5. THENCE N20°49'43"E A DISTANCE OF 52.81 FEET TO A CURVE TO THE LEFT;
6. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 630.00 FEET, A DELTA ANGLE OF 22°38'05", AN ARC LENGTH OF 249.88 FEET, WHOSE LONG CHORD BEARS N09°30'41"E A DISTANCE OF 247.27 FEET;
7. THENCE N42°56'08"E A DISTANCE OF 31.12 FEET;
8. THENCE N02°04'24"W A DISTANCE OF 100.00 FEET;
9. THENCE N47°04'24"W A DISTANCE OF 31.11 FEET;
10. THENCE N02°04'24"W A DISTANCE OF 45.00 FEET TO A CURVE TO THE RIGHT;
11. 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;
12. THENCE N38°41'44"E A DISTANCE OF 231.44 FEET;
13. THENCE N51°18'16"W A DISTANCE OF 60.00 FEET;
14. THENCE S83°41'44"W A DISTANCE OF 31.11 FEET;
15. THENCE N51°18'16"W A DISTANCE OF 170.23 FEET;
16. THENCE N38°41'44"E A DISTANCE OF 150.00 FEET;
17. THENCE N24°21'02"E A DISTANCE OF 300.00 FEET;
18. THENCE S59°58'56"E A DISTANCE OF 1,500.00 FEET;
19. THENCE S77°43'30"E A DISTANCE OF 2,000.00 FEET;
20. THENCE N60°12'39"E A DISTANCE OF 900.00 FEET;
21. THENCE N89°09'46"E A DISTANCE OF 1,400.00 FEET;
22. THENCE S64°12'52"E A DISTANCE OF 1,000.00 FEET;
23. THENCE S21°15'22"W A DISTANCE OF 120.00 FEET;
24. THENCE N75°53'48"W A DISTANCE OF 1,000.00 FEET;
25. THENCE S83°35'22"W A DISTANCE OF 600.00 FEET;
26. THENCE S00°13'03"E A DISTANCE OF 1,300.00 FEET;
27. THENCE S44°50'22"W A DISTANCE OF 1,426.29 FEET;

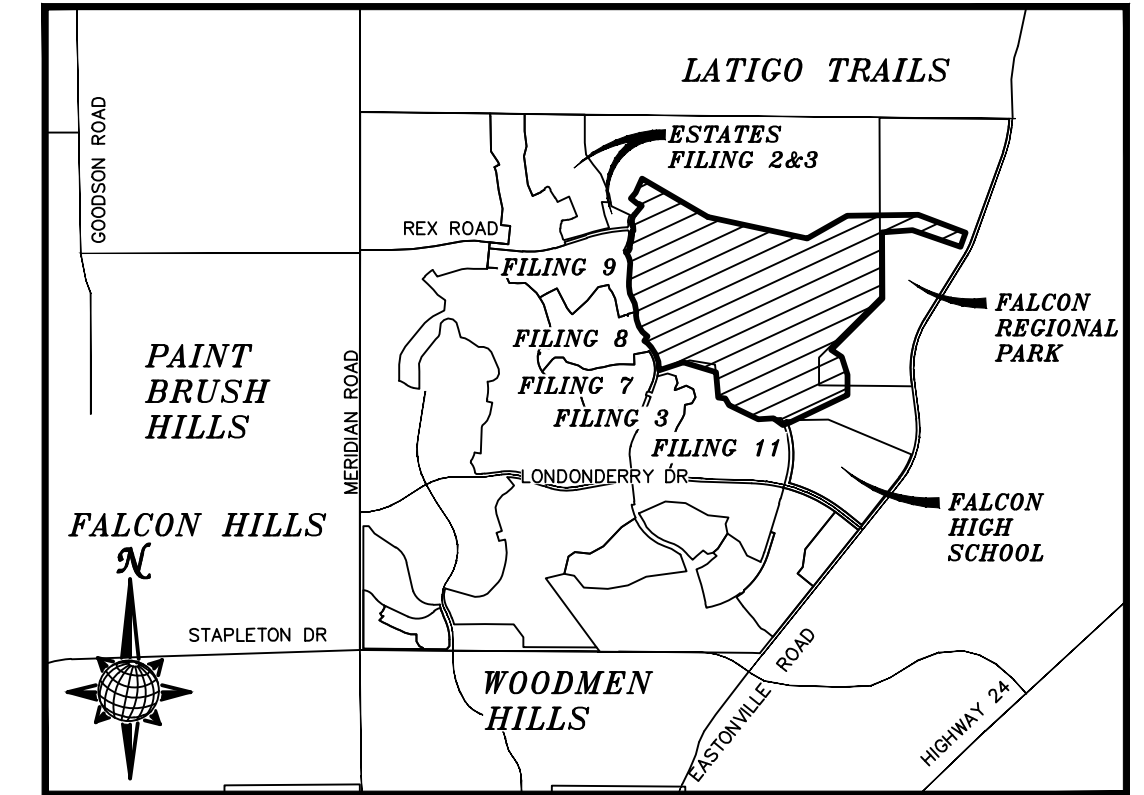
28. THENCE S56°47'59"E A DISTANCE OF 250.00 FEET;
29. THENCE S17°20'56"E A DISTANCE OF 366.37 FEET;
30. THENCE S00°00'00"E A DISTANCE OF 398.48 FEET;
31. THENCE S64°25'35"W A DISTANCE OF 1,250.00 FEET;
32. THENCE S69°41'14"W A DISTANCE OF 150.00 FEET;
33. THENCE N54°36'02"W A DISTANCE OF 225.00 FEET;
34. THENCE S86°16'43"W A DISTANCE OF 300.00 FEET;
35. THENCE N63°51'45"W A DISTANCE OF 640.00 FEET;
36. THENCE N30°07'09"W A DISTANCE OF 150.37 FEET;
37. THENCE N81°02'28"W A DISTANCE OF 138.95 FEET;
38. THENCE N05°41'51"W A DISTANCE OF 500.00 FEET;
39. THENCE N73°24'25"W A DISTANCE OF 666.76 FEET;
40. THENCE S72°14'49"W A DISTANCE OF 500.00 FEET;
41. THENCE N05°03'36"W A DISTANCE OF 165.00 FEET;
42. THENCE N20°15'12"W A DISTANCE OF 165.00 FEET;
43. THENCE N31°56'26"W A DISTANCE OF 165.00 FEET;
44. THENCE N42°44'55"W A DISTANCE OF 102.00 FEET;
45. THENCE N55°18'55"W A DISTANCE OF 75.00 FEET;
46. THENCE N36°06'38"E A DISTANCE OF 108.00 FEET;
47. THENCE N49°25'02"W A DISTANCE OF 134.00 FEET;
48. THENCE N33°45'49"W A DISTANCE OF 132.00 FEET;
49. THENCE N17°12'24"W A DISTANCE OF 137.00 FEET;
50. THENCE N09°04'29"W A DISTANCE OF 85.86 FEET;
51. THENCE N03°22'02"E A DISTANCE OF 74.77 FEET;
52. THENCE N10°04'06"W A DISTANCE OF 162.63 FEET;
53. THENCE N26°31'01"W A DISTANCE OF 218.96 FEET;
54. THENCE N06°43'25"W A DISTANCE OF 140.00 FEET;
55. THENCE N01°13'59"W A DISTANCE OF 97.14 FEET;
56. THENCE N04°28'36"W A DISTANCE OF 360.75 FEET;
57. THENCE N12°48'36"W A DISTANCE OF 91.63 FEET;
58. THENCE N22°11'16"W A DISTANCE OF 110.06 FEET;
59. THENCE N51°53'30"W A DISTANCE OF 86.13 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL OF LAND CONTAINS 372.925 ACRES, MORE OR LESS.

ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH

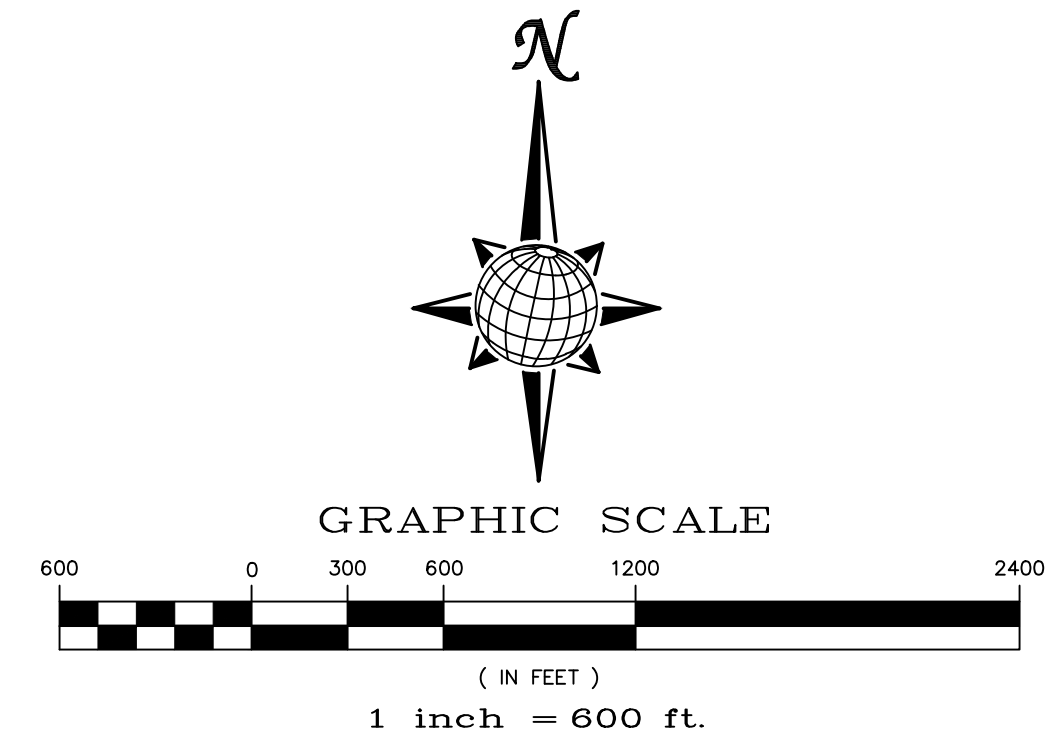
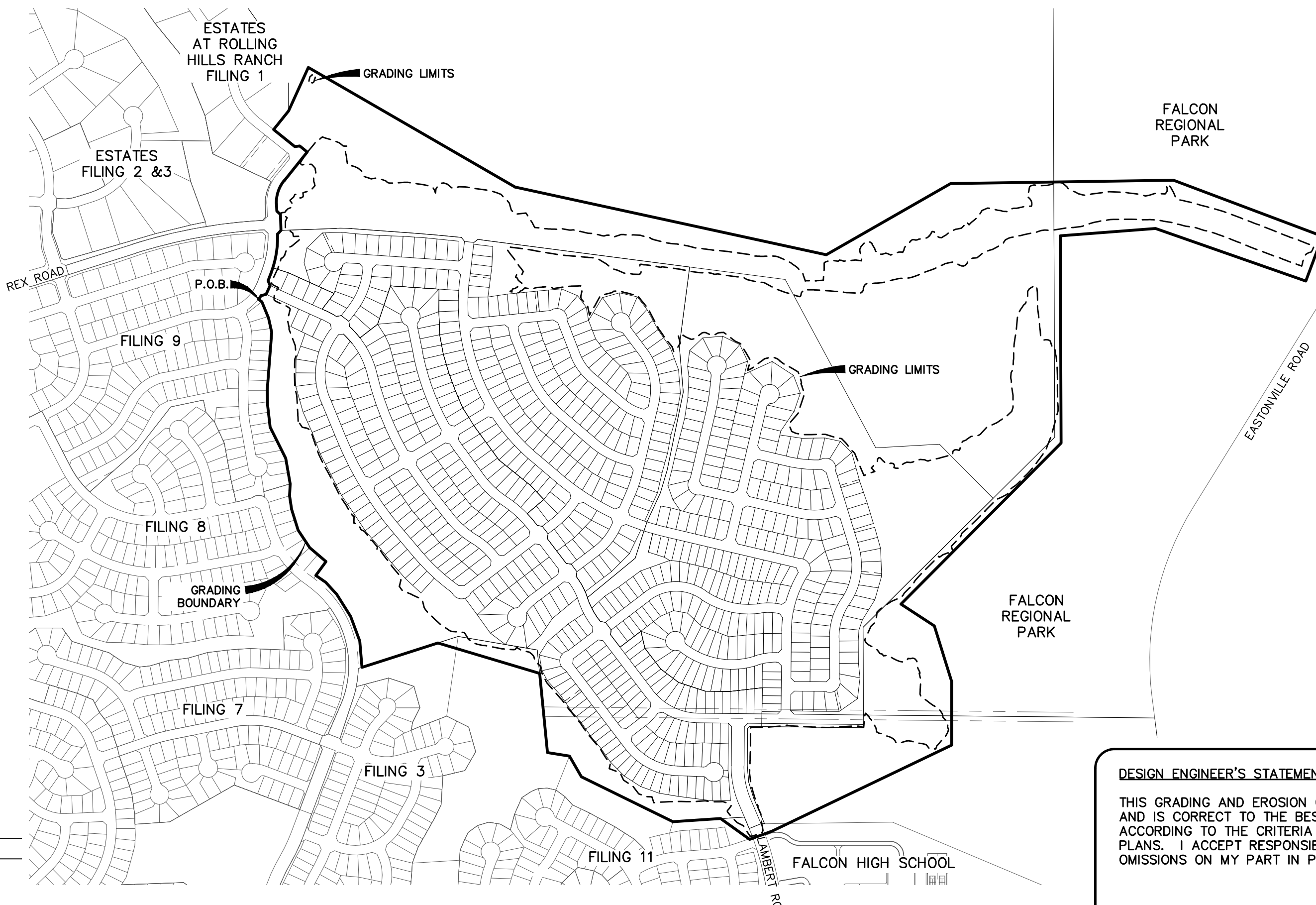
PREPARED FOR GTL, INC. DBA GTL DEVELOPMENT, INC.

A PARCEL OF LAND LOCATED IN A PORTION OF SECTIONS 20, 21, 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.

SHEET	SHEET INDEX
1	COVER SHEET
2	INDEX SHEET
3-23	LAYOUT SHEETS
24-29	DETAIL SHEETS



TWO WORKING DAYS BEFORE YOU DIG CALL 811

OR
 UTILITY NOTIFICATION CENTER OF COLORADO
 1-800-922-1167
 (SEE COVER FOR LIST OF UTILITY CONTACTS)

Stage	Description	Control Measures	Begin Date	End Date
Stage 1	Overlot Grading	Perimeter Control Temporary Sed. Basins Swale Checks as needed Surface Roughening	May 2020	November 2020
Stage 2	Underground utilities Surface Improvements	Perimeter Control Inlet Protection	August 2020	March 2021
Stage 3	Home Construction	Inlet Protection Individual Lot Perimeter Control	September 2020	
Final Stabilization	Permit Close	Final Stabilization Permanent Measures	June 2022	

BASIS OF BEARING

BASIS 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).

BENCH MARK

1) MRRC1 – 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF LONDONDERRY DRIVE AND ANGLES 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'

DEVELOPERS STATEMENT:

THE UNDERSIGNED DEVELOPER HAS READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE GRADING AND EROSION CONTROL PLAN AND THE ACCOMPANYING DRAINAGE REPORT.

 RAUL GUZMAN, VICE PRESIDENT
 GTL DEVELOPMENT, INC. _____ DATE

OWNERS STATEMENT:

THE UNDERSIGNED OWNER HAS READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE GRADING AND EROSION CONTROL PLAN AND THE ACCOMPANYING DRAINAGE REPORT.

 RAUL GUZMAN, VICE PRESIDENT
 MERIDIAN RANCH INVESTMENTS, INC. _____ DATE

 RAUL GUZMAN, VICE PRESIDENT
 GTL DEVELOPMENT, INC. _____ DATE

 DAVID A PELSNER, GENERAL MANAGER
 MERIDIAN SERVICE METROPOLITAN DISTRICT _____ DATE

DESIGN ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THIS PLAN.

 THOMAS A. KERBY, P.E. #31429 _____ 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 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.

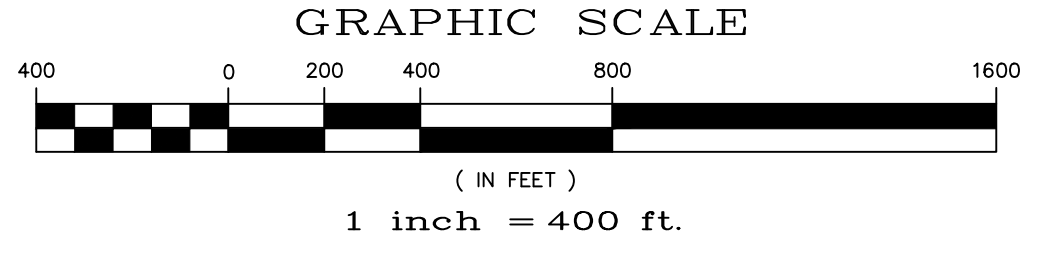
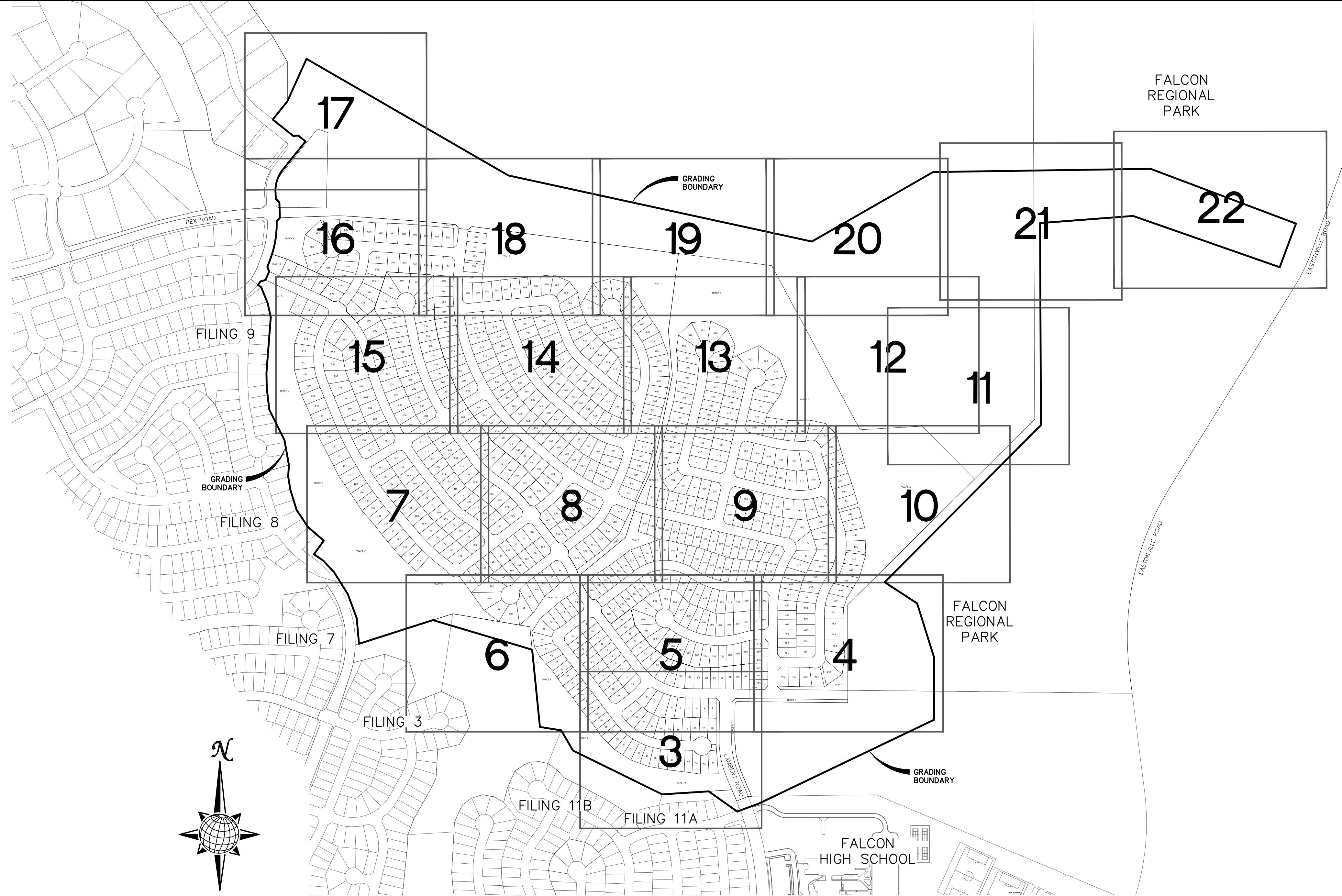
 JENNIFER IRVINE, P.E.
 COUNTY ENGINEER / ECM ADMINISTRATOR _____ DATE

1	2	3	4	No.	Revisions	Date	Appr.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457							
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN COVER SHEET				Drawn by: LOG Checked by: TAK Date: MARCH 2020			
Scale AS SHOWN				1 of 29			

EL PASO COUNTY STANDARD NOTES:

- 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.
- 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.
- 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.
- 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.
- 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.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- 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.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS, ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 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.
- 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.
- 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).
- 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.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 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.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 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.
- 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.
- 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.
- 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.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 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.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- 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:

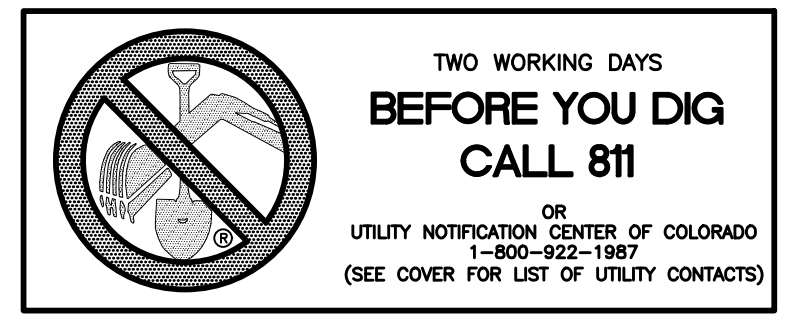
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
 WATER QUALITY CONTROL DIVISION
 WOOD - PERMITS
 4300 CHERRY CREEK DRIVE SOUTH
 DENVER, CO 80246-1530
 ATTN: PERMITS UNIT



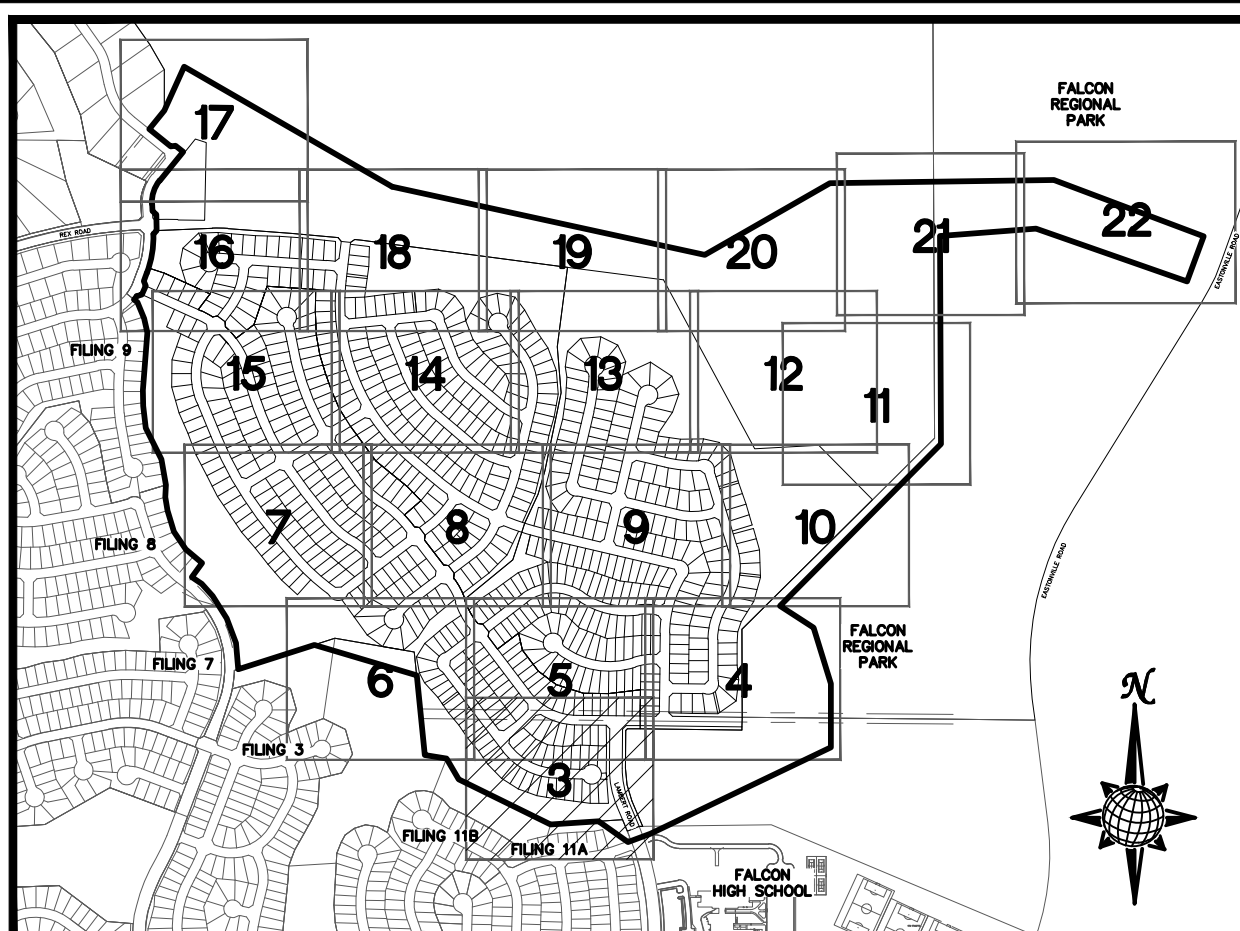
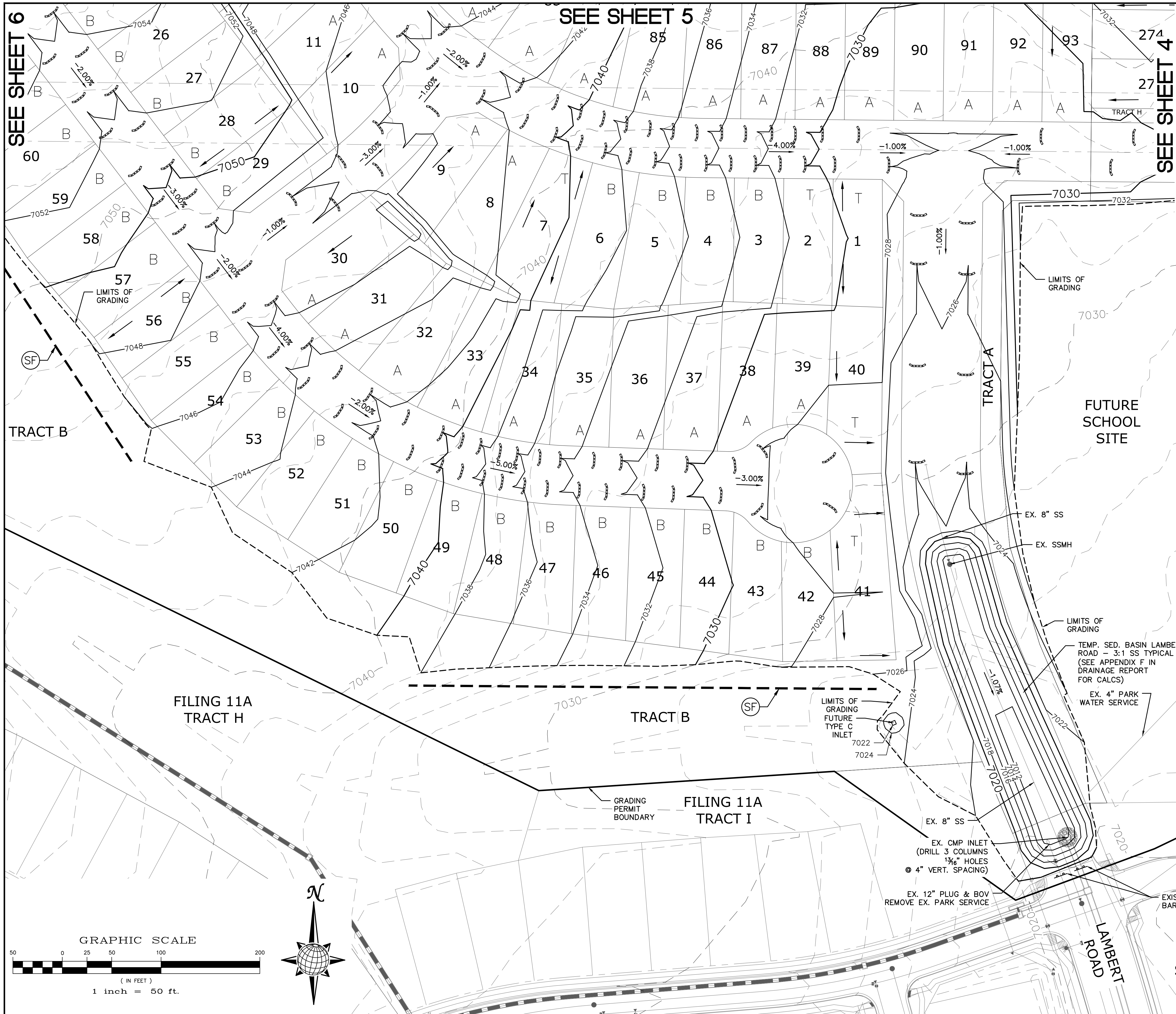
NOTE:

- 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-SEEDDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDDED WITH THE APPROVED COUNTY SEED MIX.
- 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.
- THERE IS NO CONCRETE BATCH PLANT ASSOCIATED WITH THIS PROJECT.

EARTHWORK QUANTITIES			
NET YARDS	BALANCE		
TOTAL STRIPPINGS	252.0 AC.	135,520 CY	
NET YARDS	<u>CUT</u>	<u>FILL</u>	
	531,374 CY	526,655 CY	
20% COMPACTION FACTOR			



Scale AS SHOWN	Drawn by	Log	Checked by	TAK	Date	MARCH 2020		
	2 of 29							
	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457							
	MERIDIAN RANCH ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN GRADING INDEX SHEET							
Revisions						No.	Date	Appr.
1						2	3	4



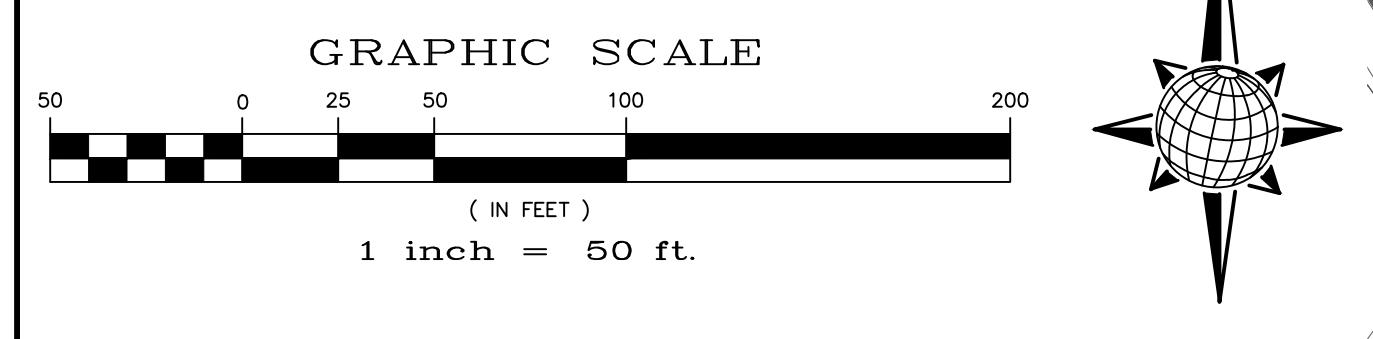
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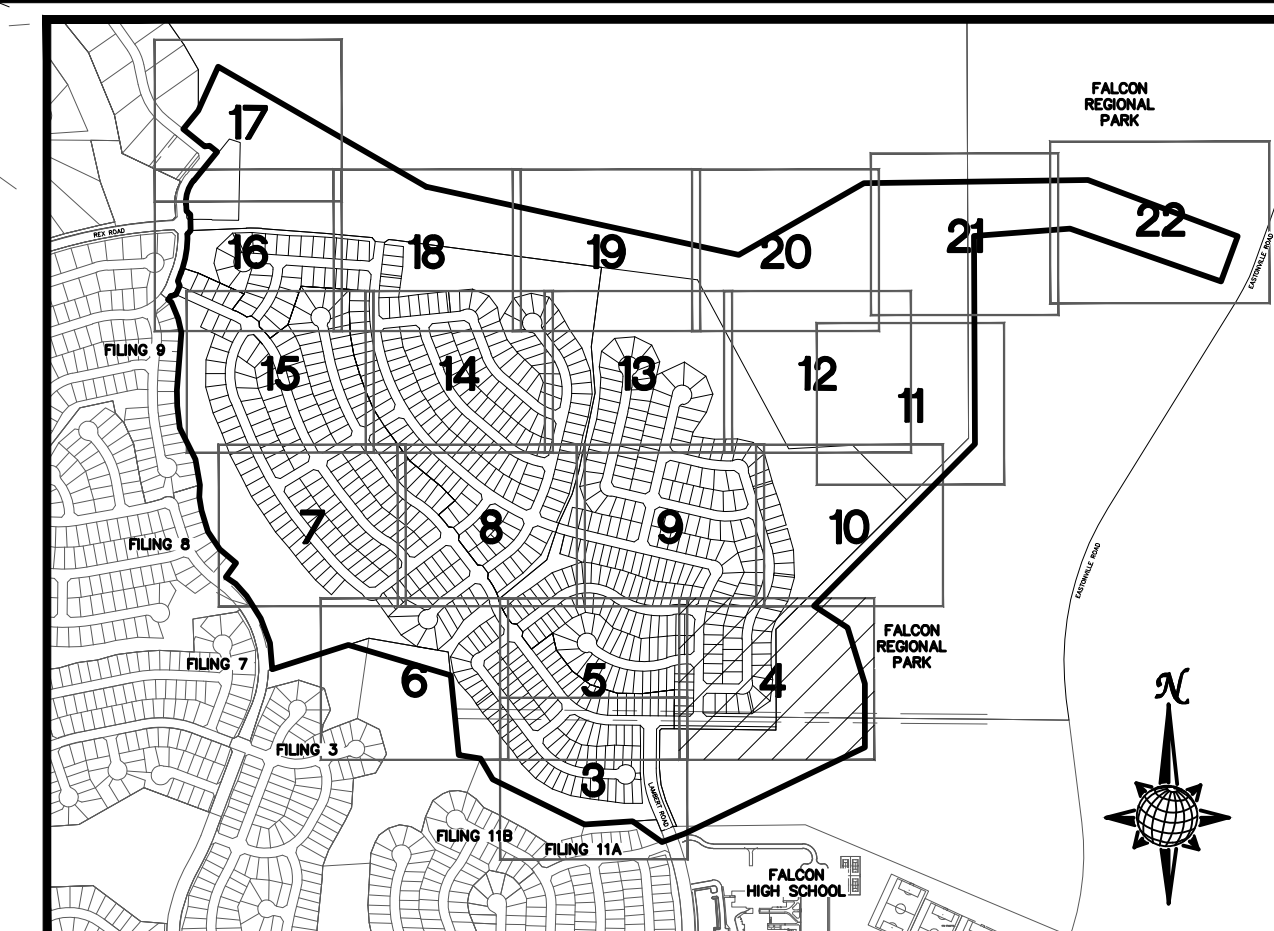
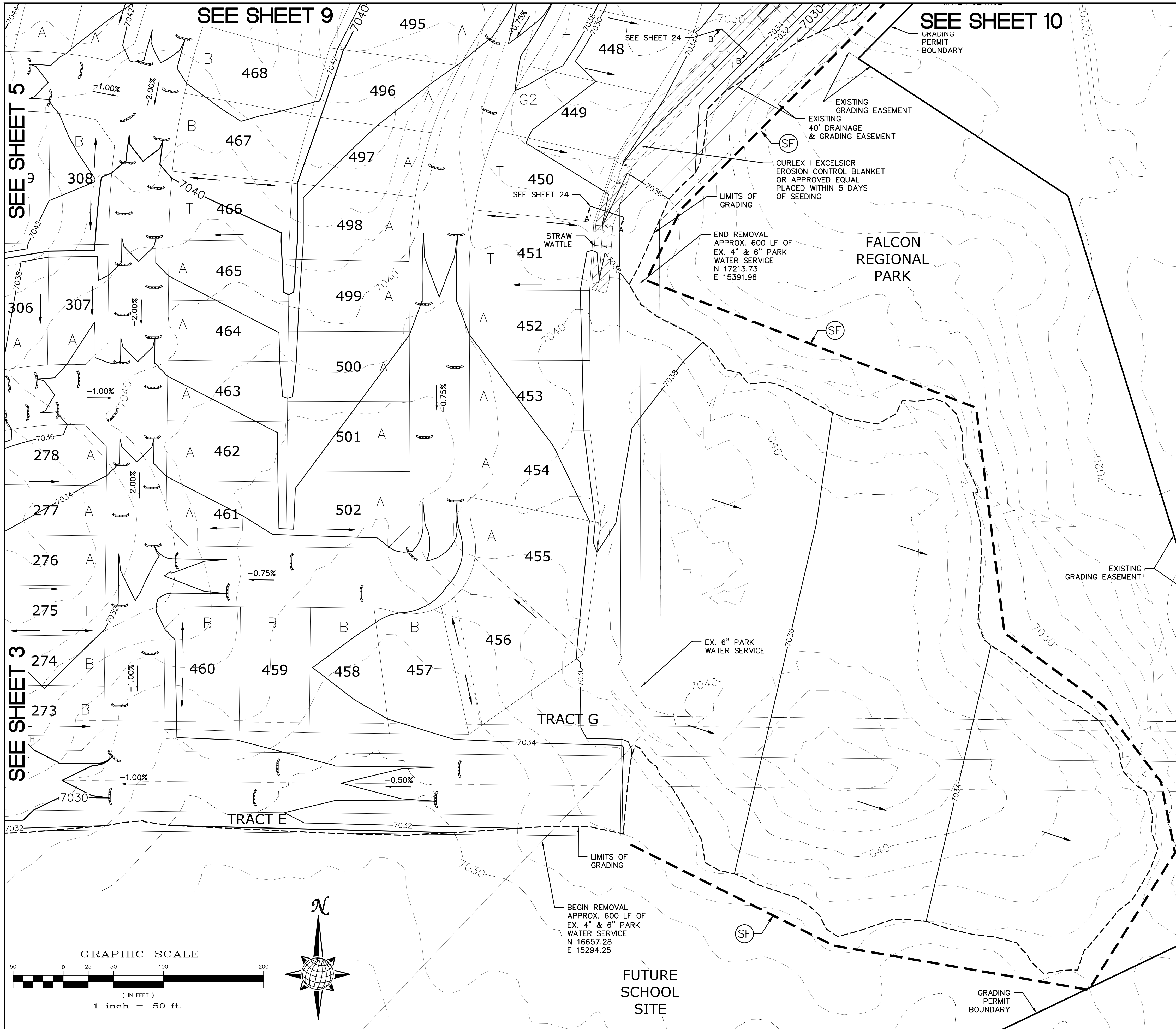
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	UTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

NOTE:
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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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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



1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MARCH 2020
Scale		3	of 29	
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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LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
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11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

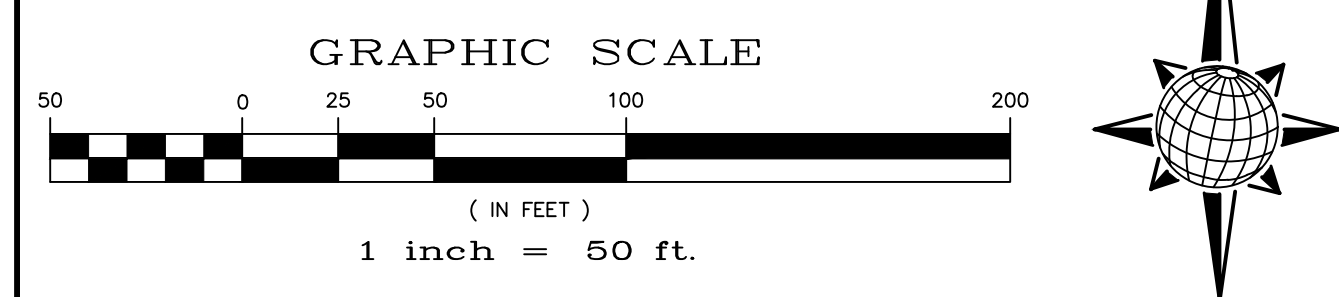
SEE SHEET 5

SEE SHEET 3

SEE SHEET 9

SEE SHEET 10

SEE SHEET 24

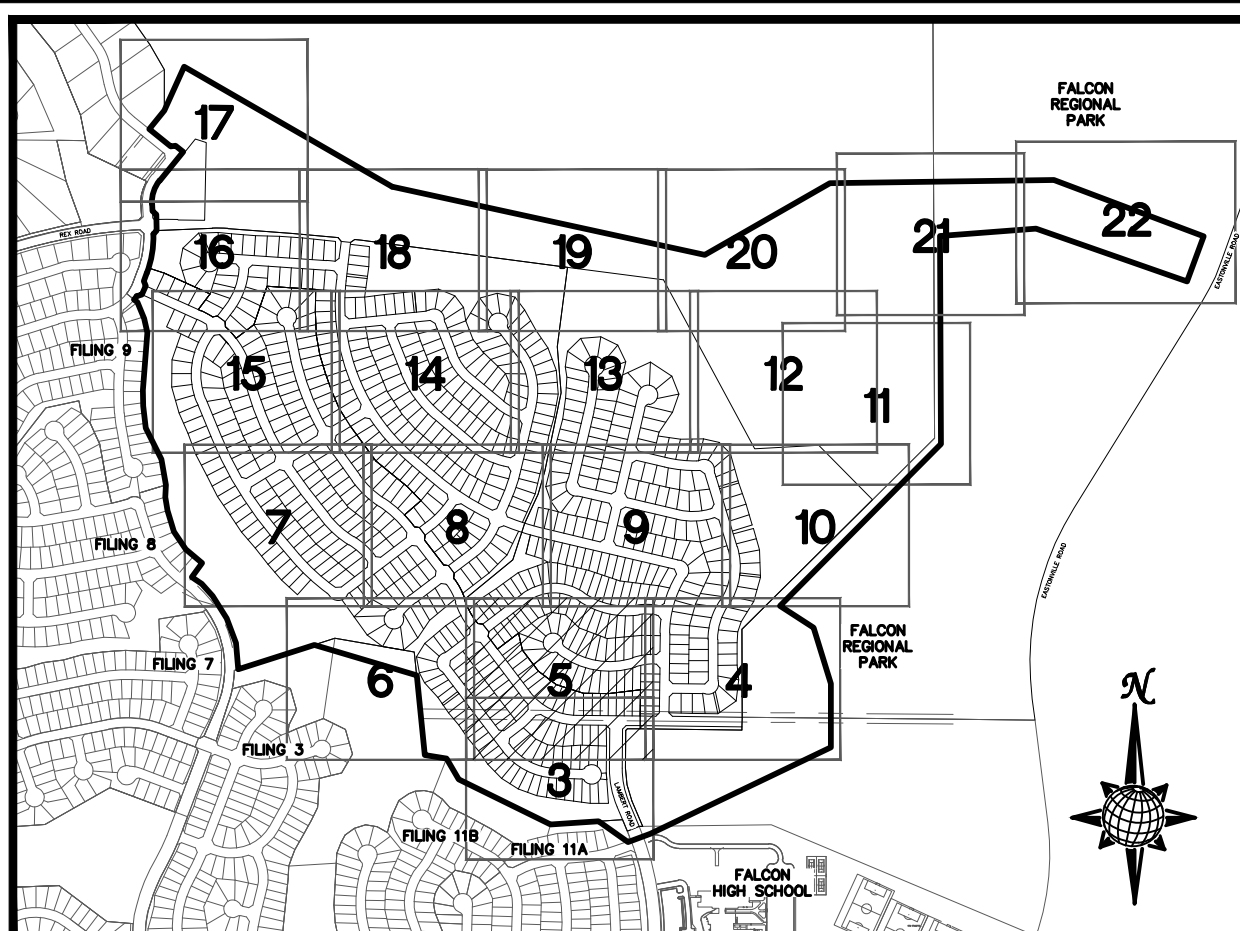
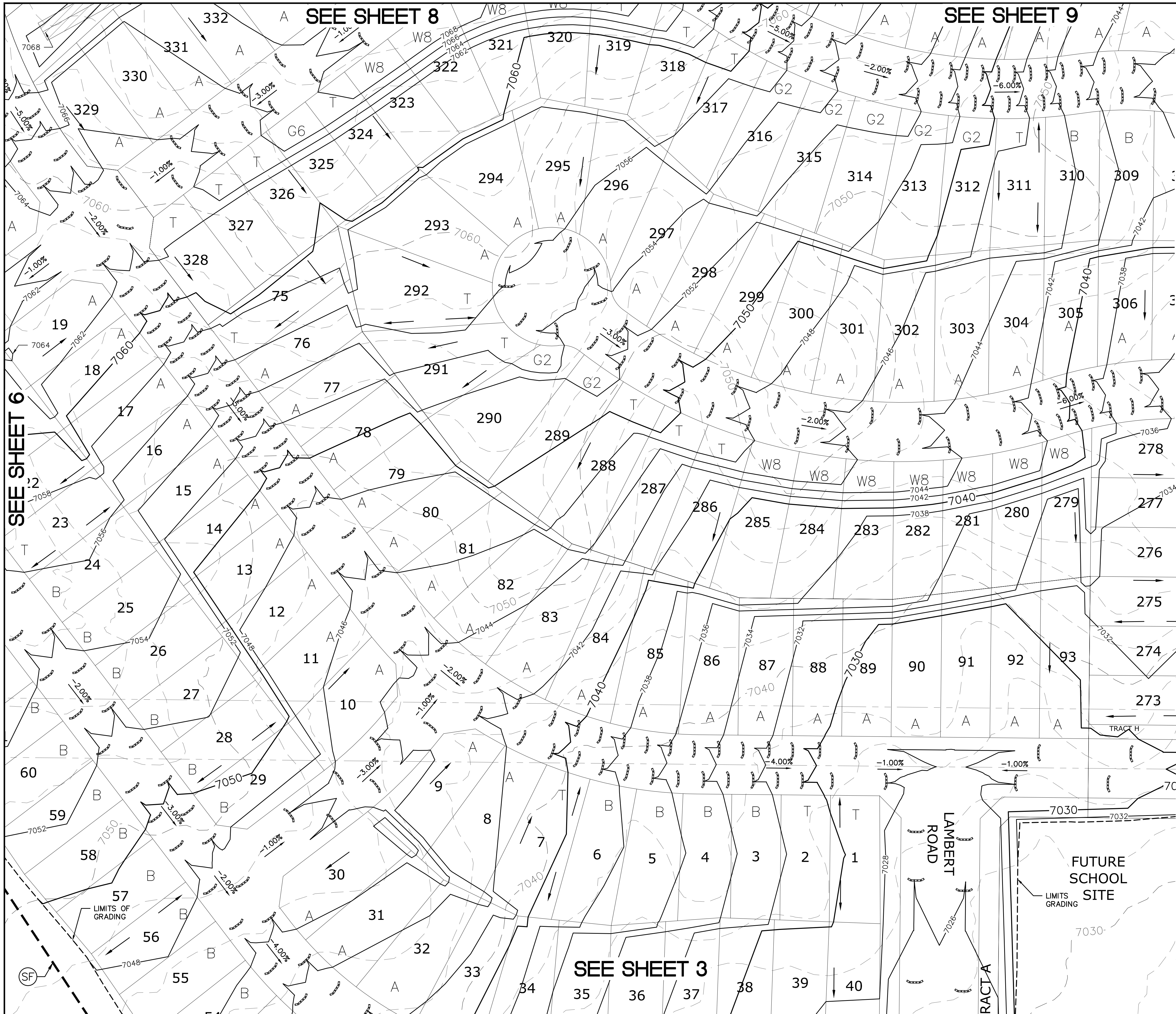


FUTURE SCHOOL SITE

GRADING PERMIT BOUNDARY

1	2	3	4	No.	Revisions	Date	Appr.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457							
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET							
Drawn by	LOG	Checked by	TAK	Date	MARCH 2020		
Scale	AS SHOWN			4	of 29		

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)

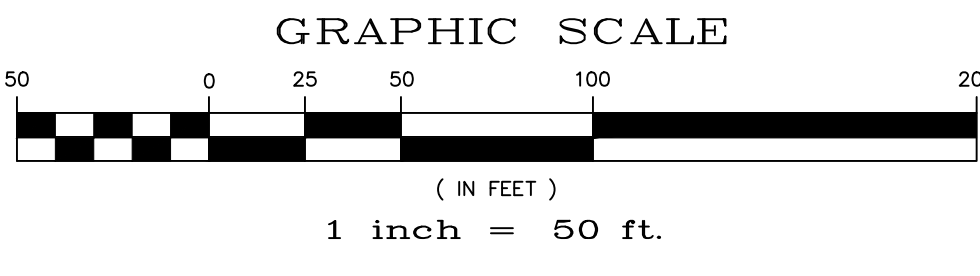


INDEX MAP
N.T.S.
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

SEE SHEET 4

SEE SHEET 6



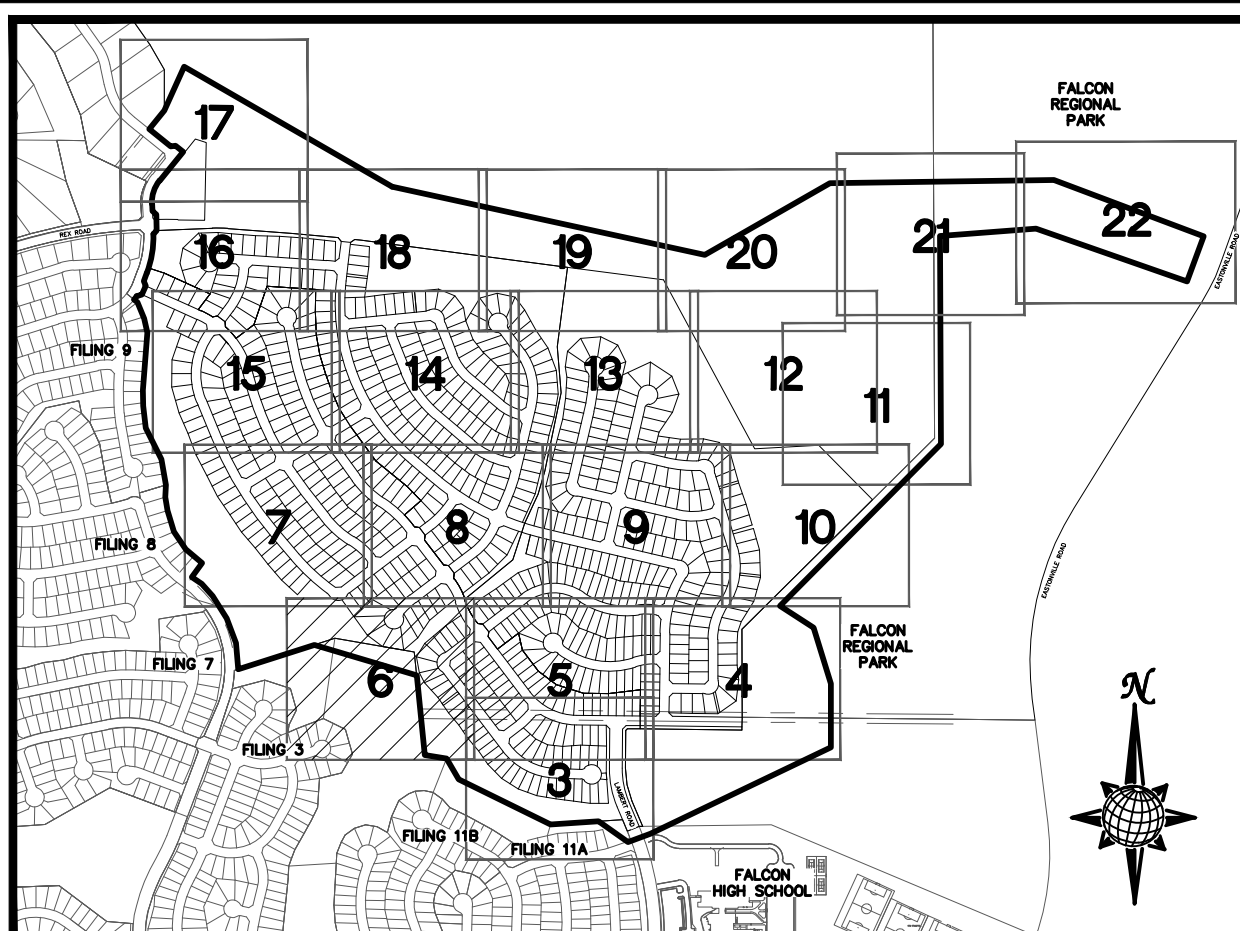
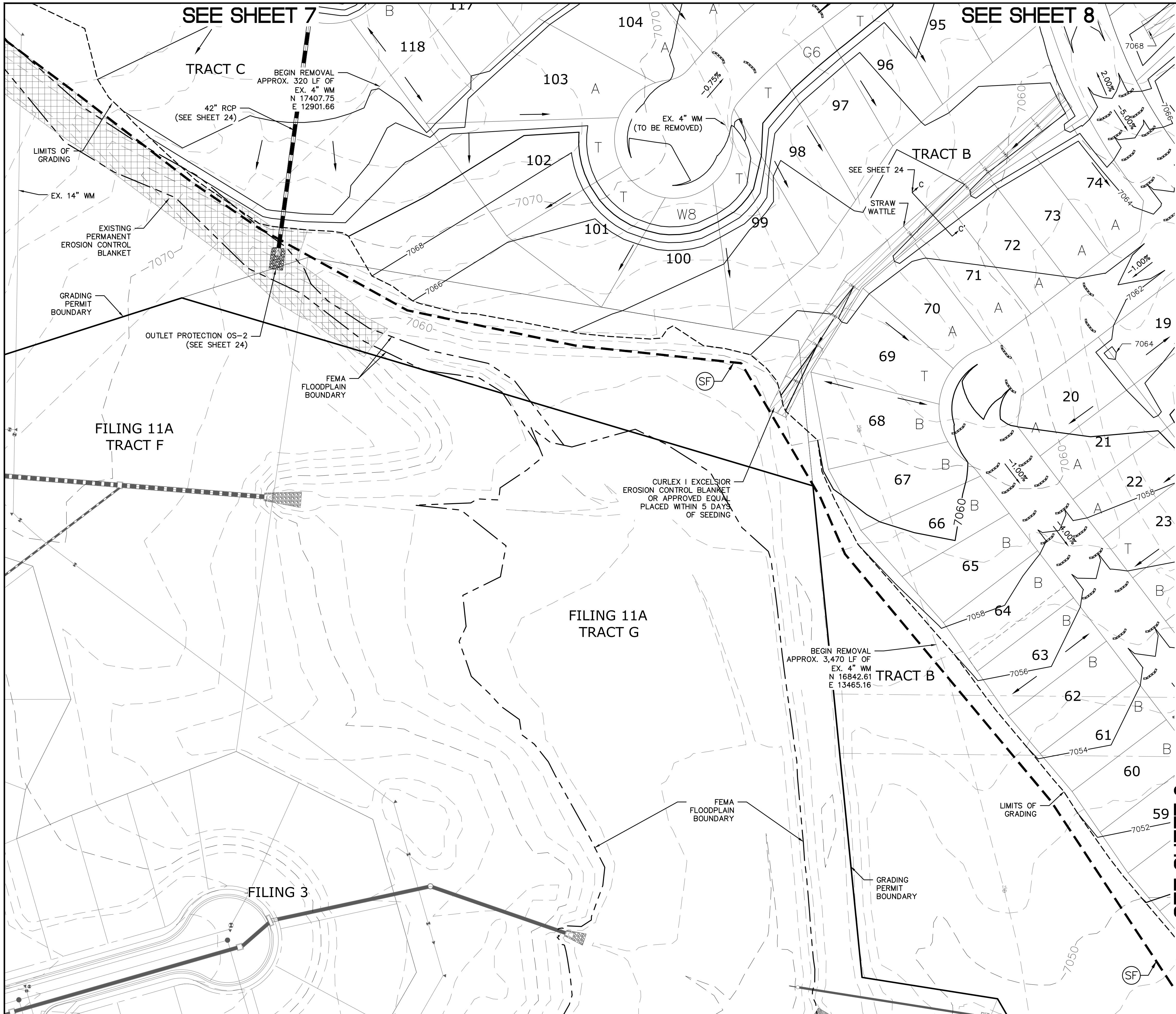
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UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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1	2	3	4	No.	Revisions	Date	Instr.	Appr.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457								
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET								
Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK	Date	5	of 29
MARCH 2020								



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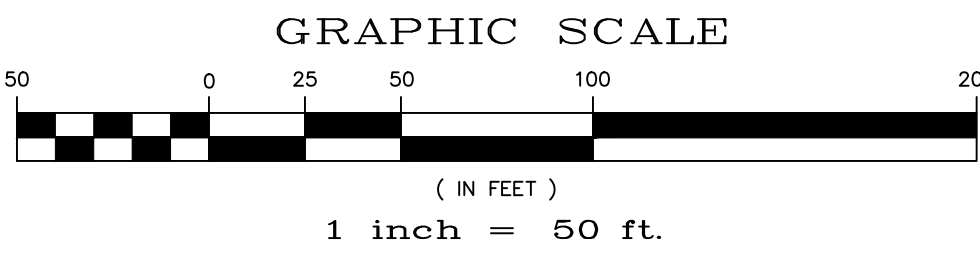
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

TWO WORKING DAYS BEFORE YOU DIG CALL 811

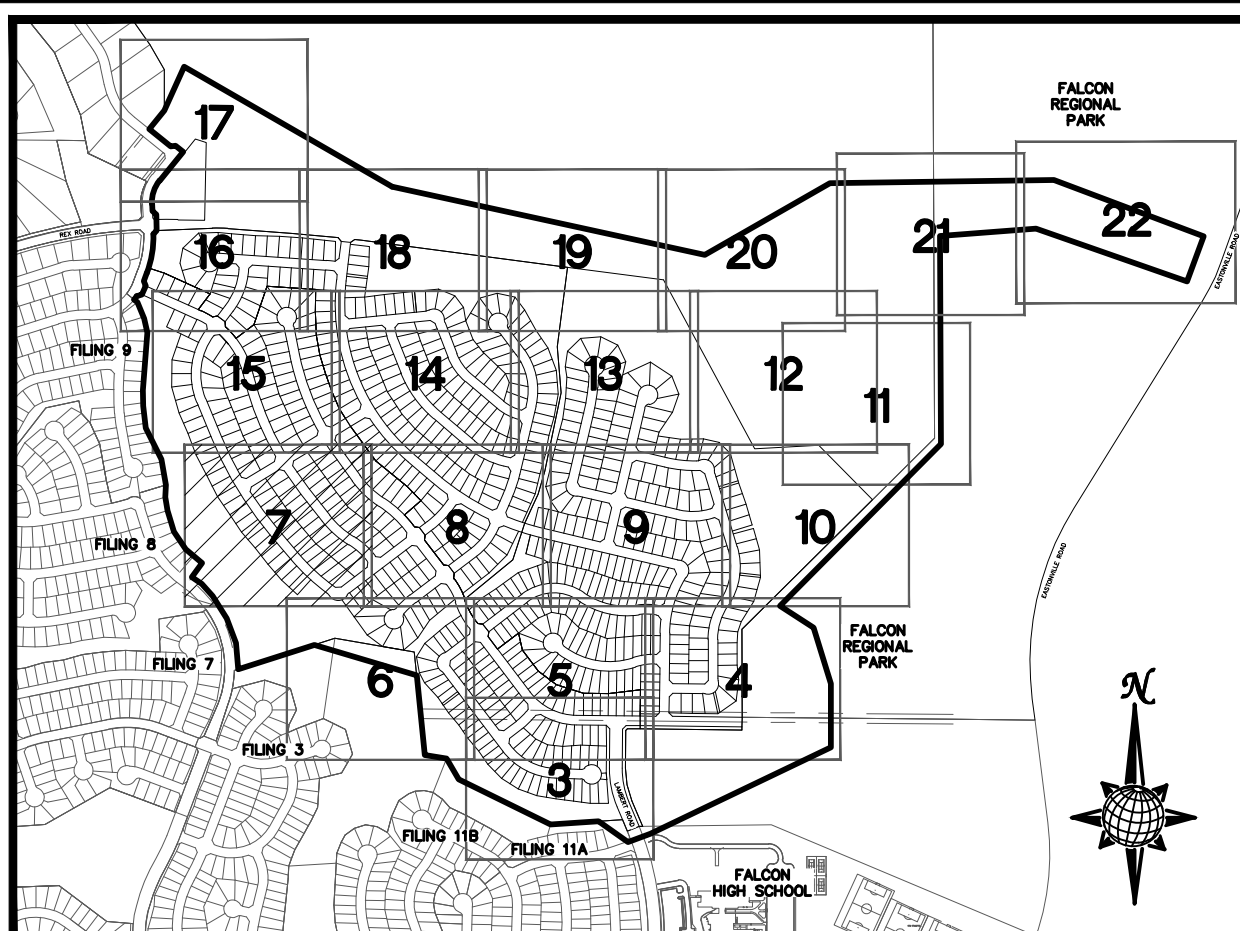
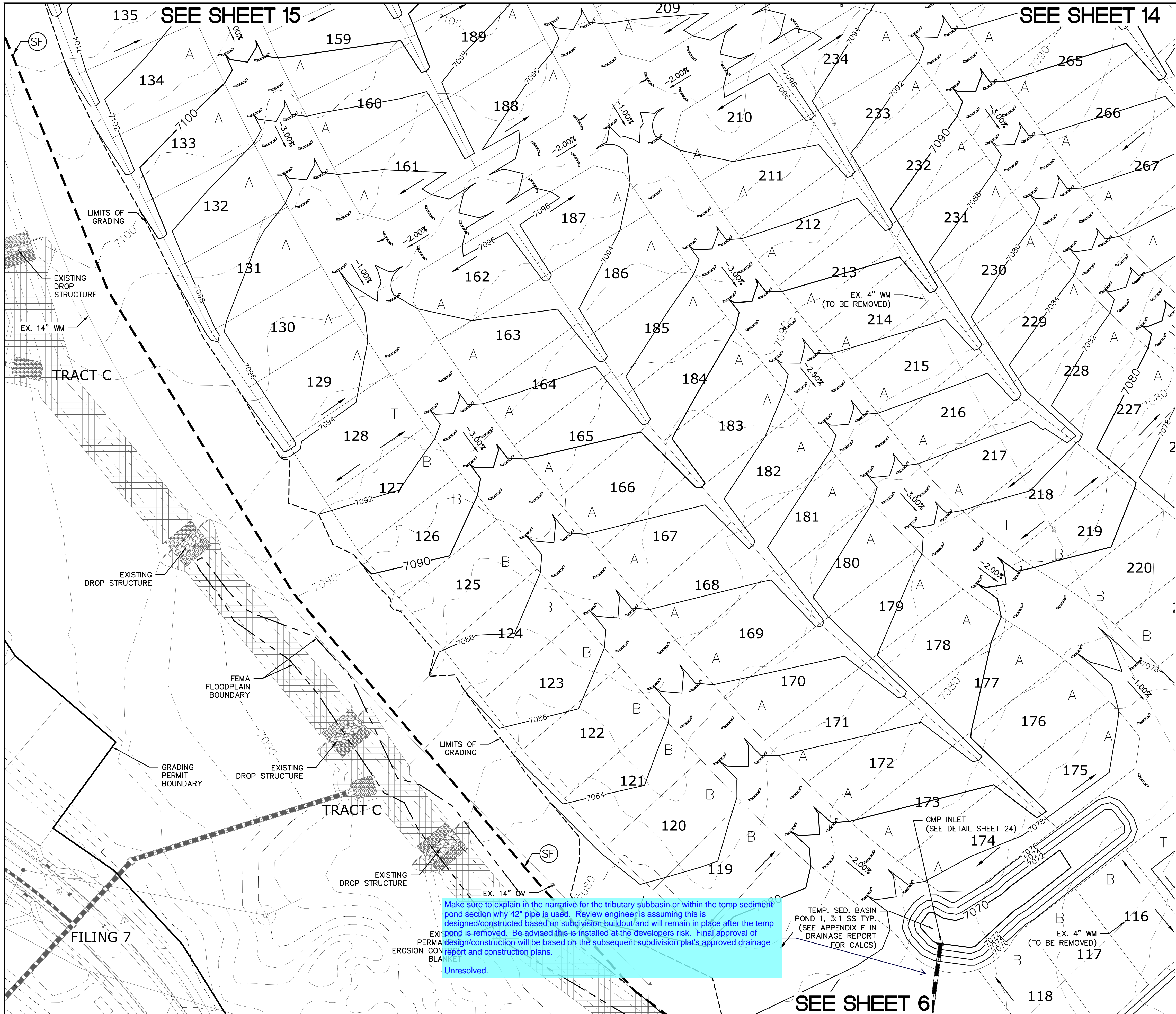
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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1	2	3	4	No.	Revisions	Date	Appr.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457							
MERIDIAN RANCH							
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET							
Drawn by	LOG	Checked by	TAK	Date	MARCH 2020		
Scale	AS SHOWN	6	of	29			



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LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
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	IP	INLET PROTECTION PER DETAIL SHEET 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		75
		A
		EXISTING STOCKPILE AREAS

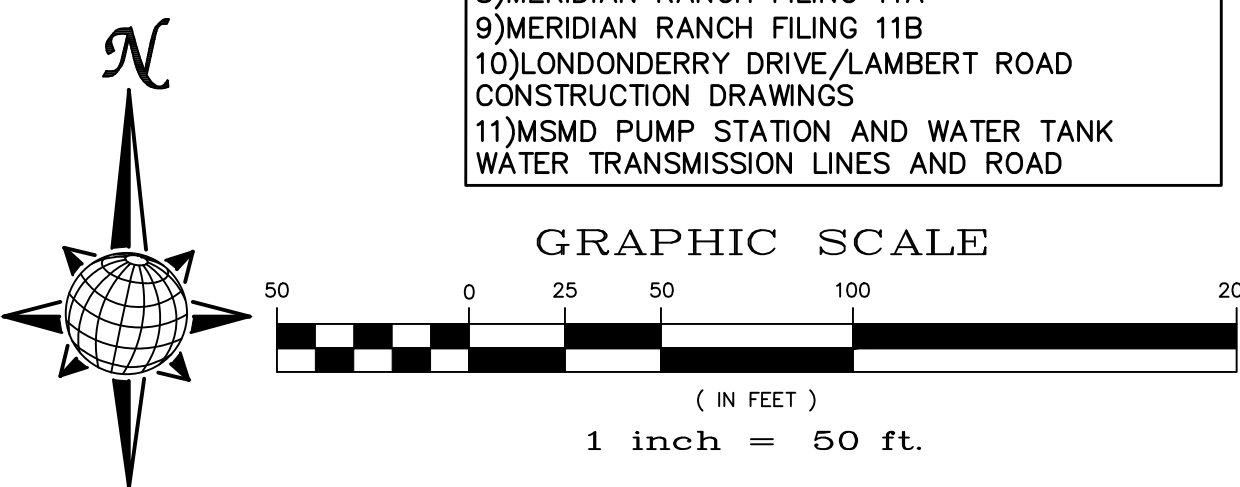
SEE SHEET 8

TWO WORKING DAYS BEFORE YOU DIG CALL 811

UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1887 (SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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



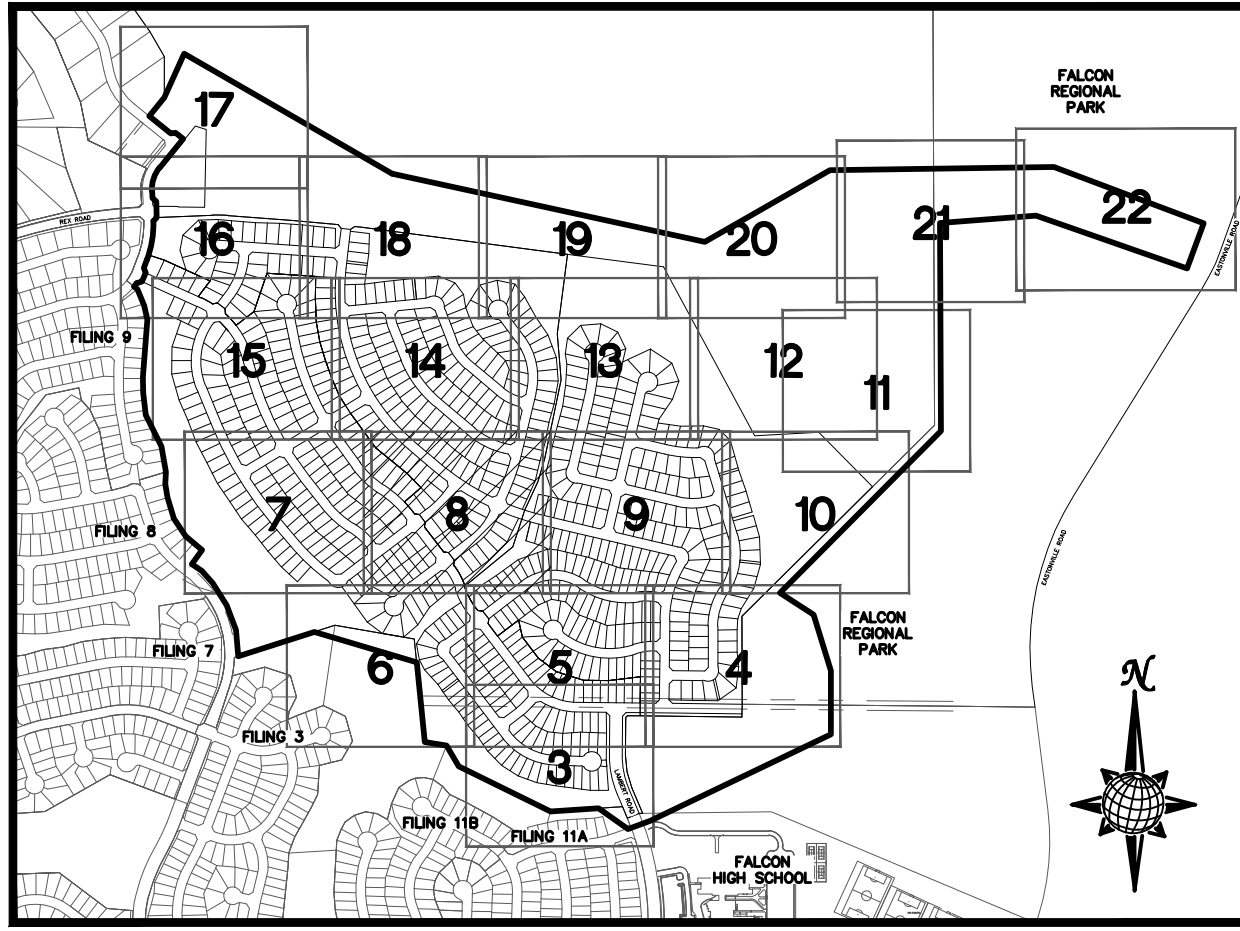
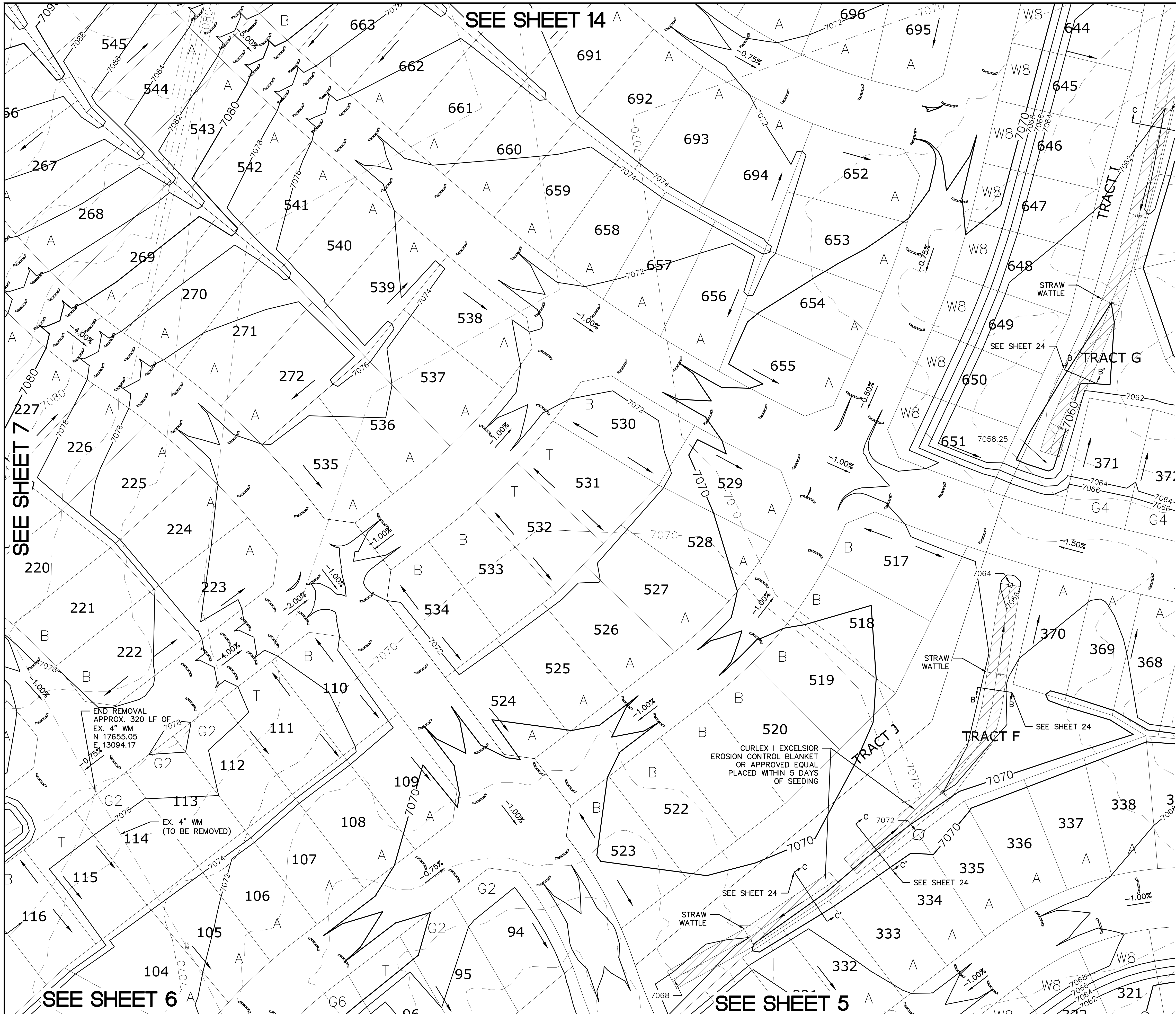
Make sure to explain in the narrative for the tributary subbasin or within the temp sediment pond section why 42" pipe is used. Review engineer is assuming this is designed/constructed based on subdivision buildout and will remain in place after the temp pond is removed. Be advised this is installed at the developers risk. Final approval of design/construction will be based on the subsequent subdivision plat's approved drainage report and construction plans.
Unresolved.

TEMP. SED. BASIN POND 1, 3:1 SS TYP. (SEE APPENDIX F IN DRAINAGE REPORT FOR CALCS)

CMP INLET (SEE DETAIL SHEET 24)

SEE SHEET 6

No.	1	2	3	4	Date	Appr.
Revisions						
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457						
MERIDIAN RANCH						
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN PLAN SHEET						
Drawn by	LOG	Checked by	TAK	Date	MARCH 2020	
Scale	AS SHOWN		7 of 29			

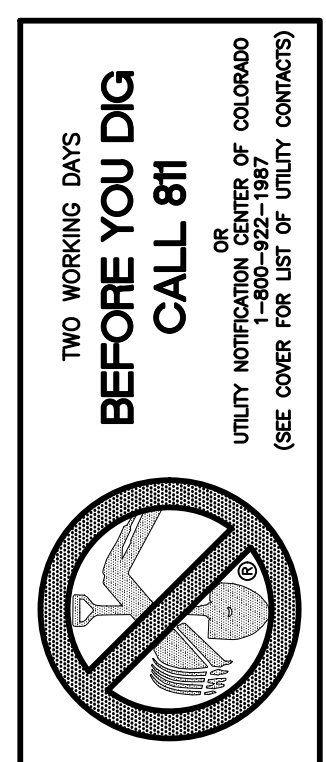


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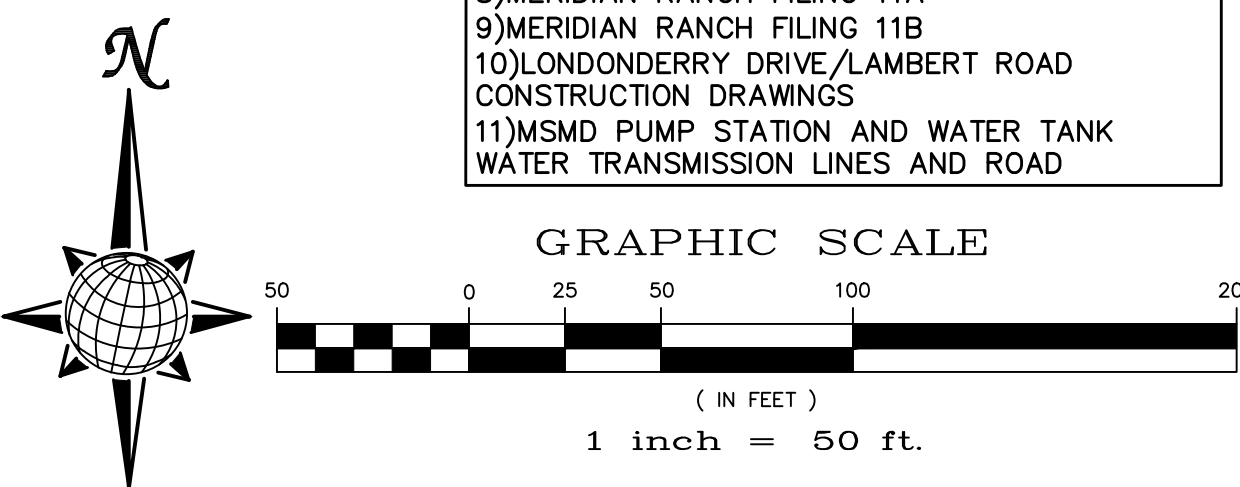
SYMBOL	ACRONYM	DESCRIPTION
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		EXISTING STOCKPILE AREAS

SEE SHEET 9



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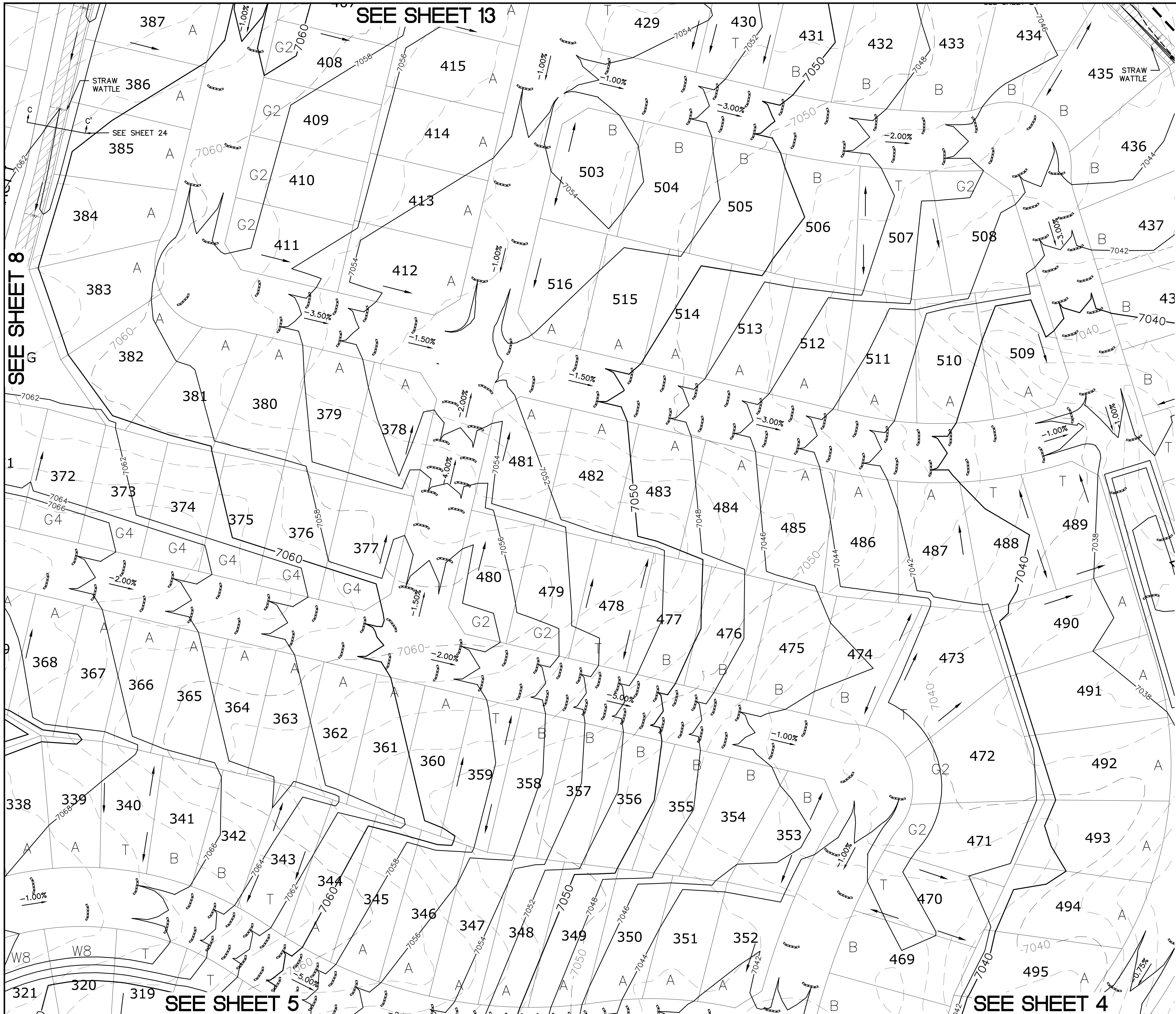
SEE SHEET 7

SEE SHEET 6

SEE SHEET 14

SEE SHEET 5

1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
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Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				8 of 29
Scale	MARCH 2020			



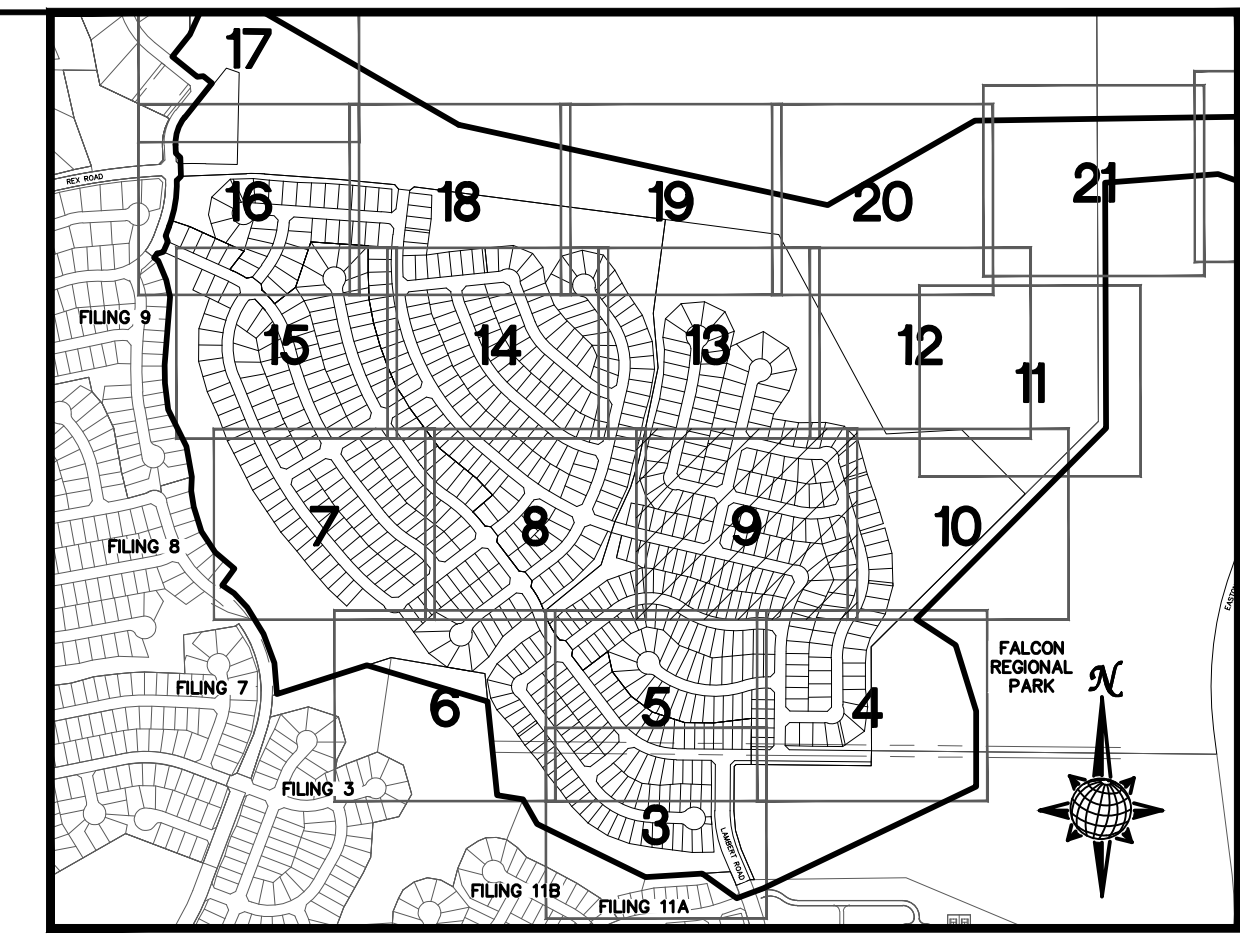
SEE SHEET 8

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SEE SHEET 10



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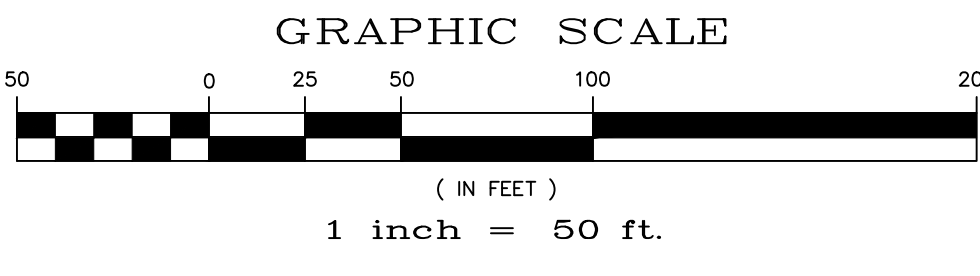
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
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		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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		LIMITS OF GRADING
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		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

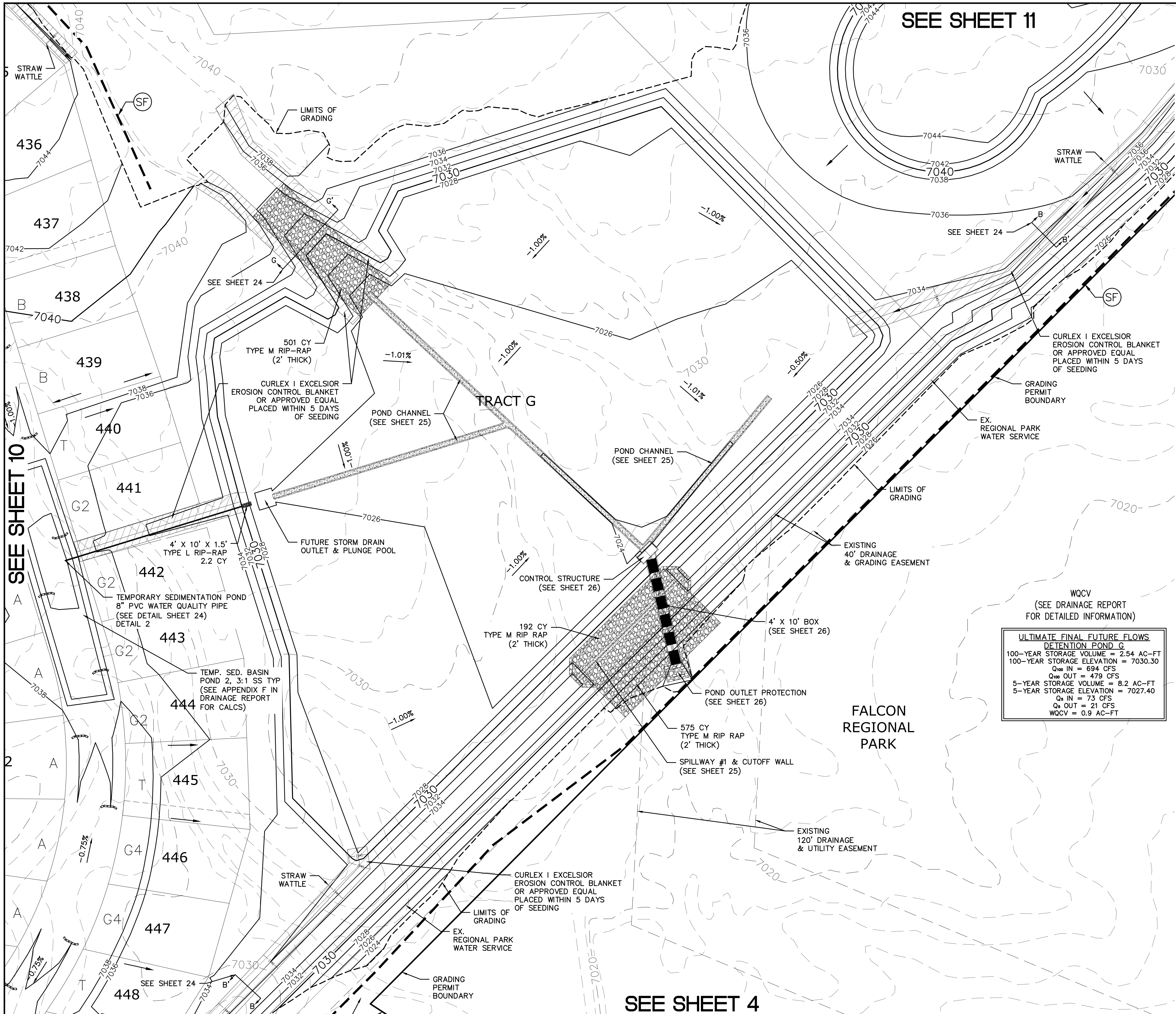
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Drawn by	LOG	Checked by	TAK	Date	MARCH 2020	
Scale	AS SHOWN		9	of	29	

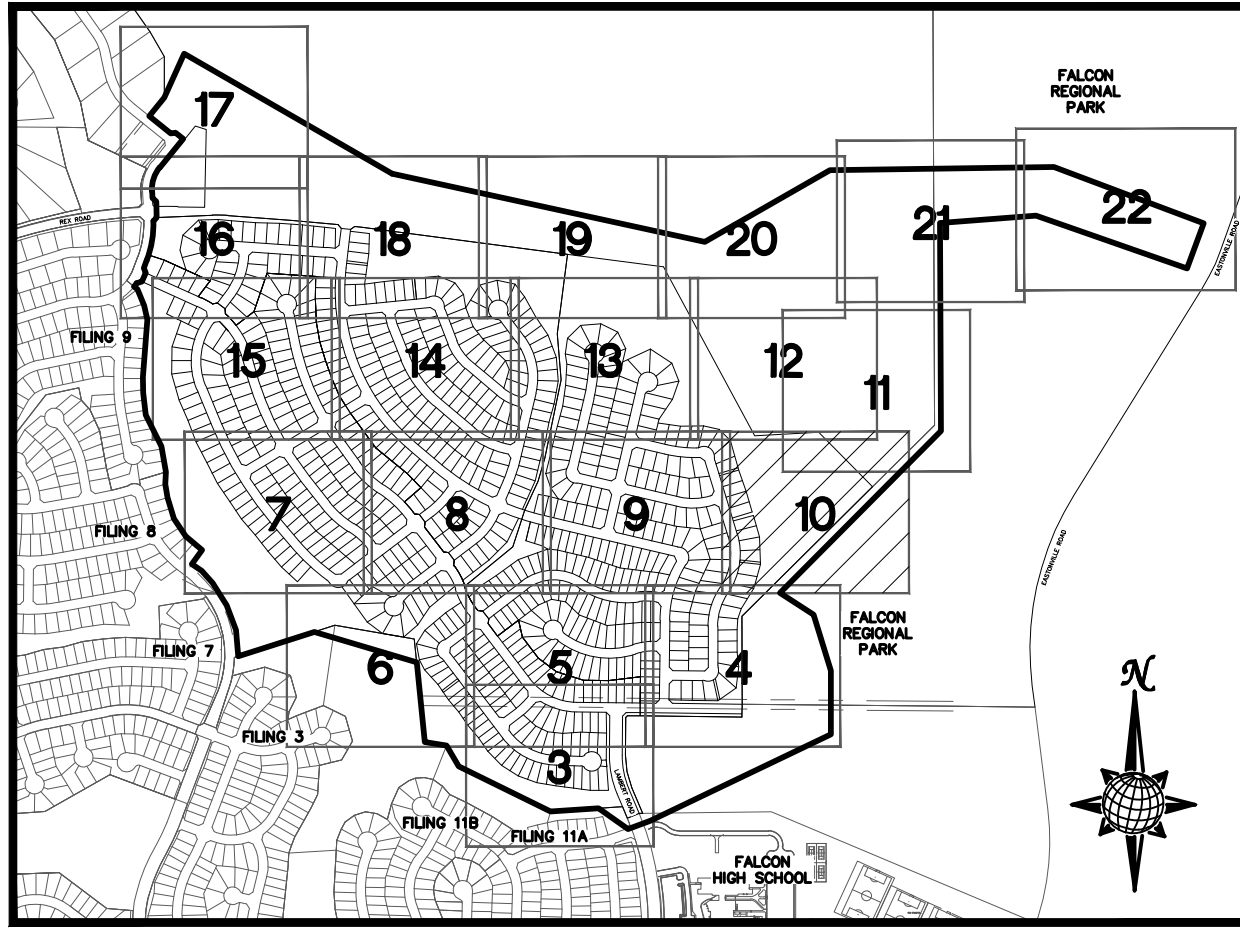


SEE SHEET 11

SEE SHEET 24

SEE SHEET 10

SEE SHEET 4

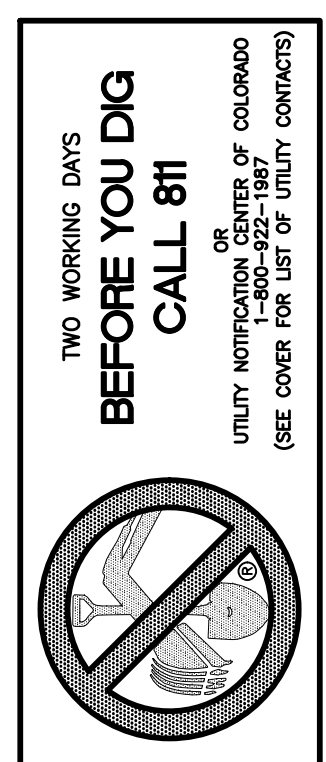


INDEX MAP
N.T.S.
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

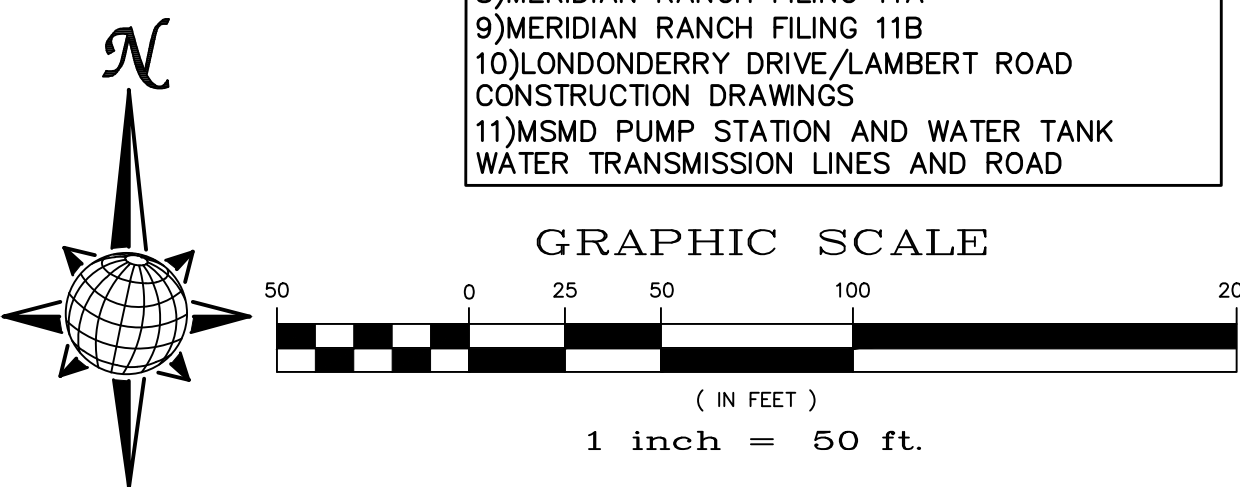
WQCV
(SEE DRAINAGE REPORT FOR DETAILED INFORMATION)

ULTIMATE FINAL FUTURE FLOWS	
DETENTION POND G	
100-YEAR STORAGE VOLUME =	2.54 AC-FT
100-YEAR STORAGE ELEVATION =	7030.30
Q _{IN} =	694 CFS
Q _{OUT} =	479 CFS
5-YEAR STORAGE VOLUME =	8.2 AC-FT
5-YEAR STORAGE ELEVATION =	7027.40
Q _{IN} =	73 CFS
Q _{OUT} =	21 CFS
WQCV =	0.9 AC-FT

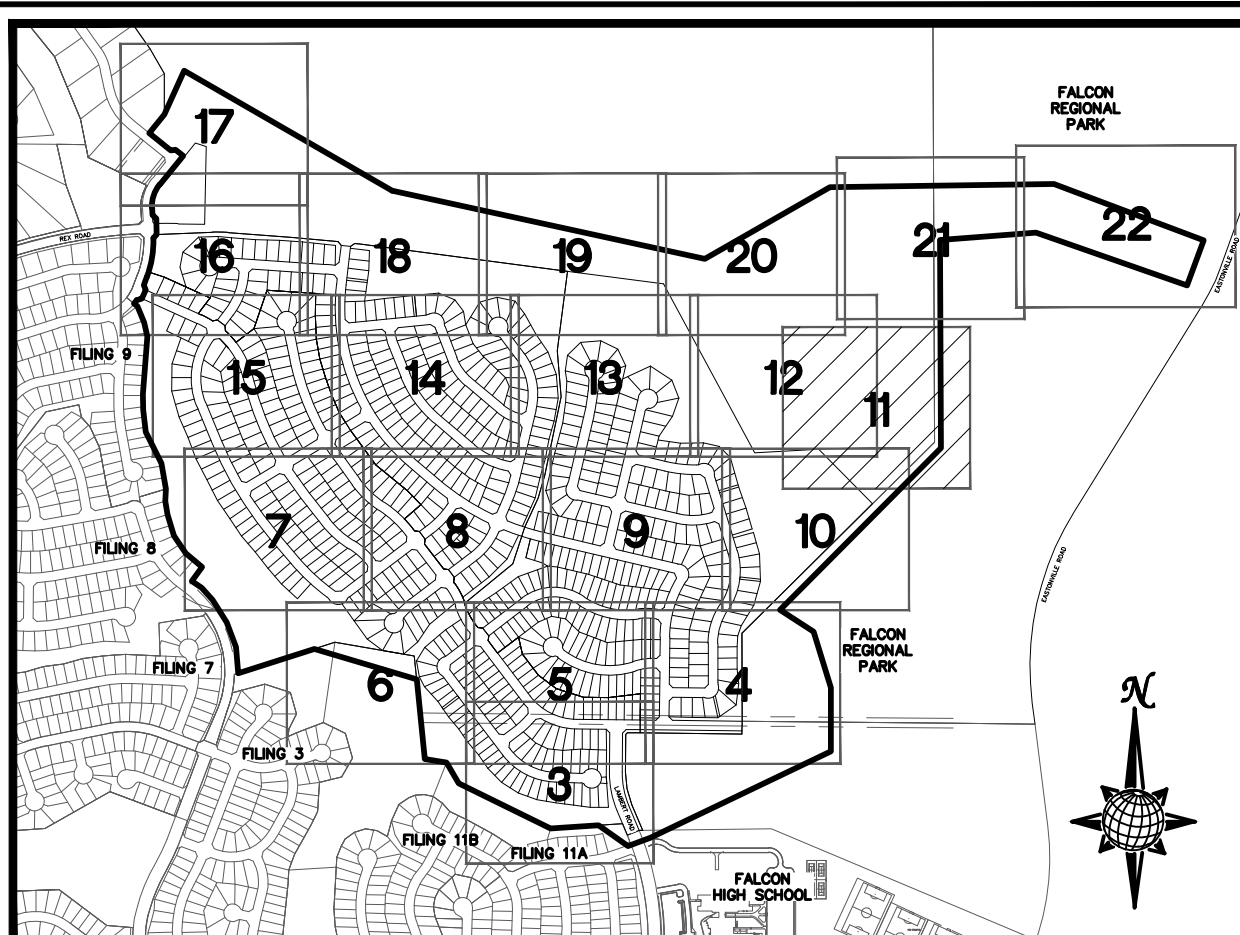
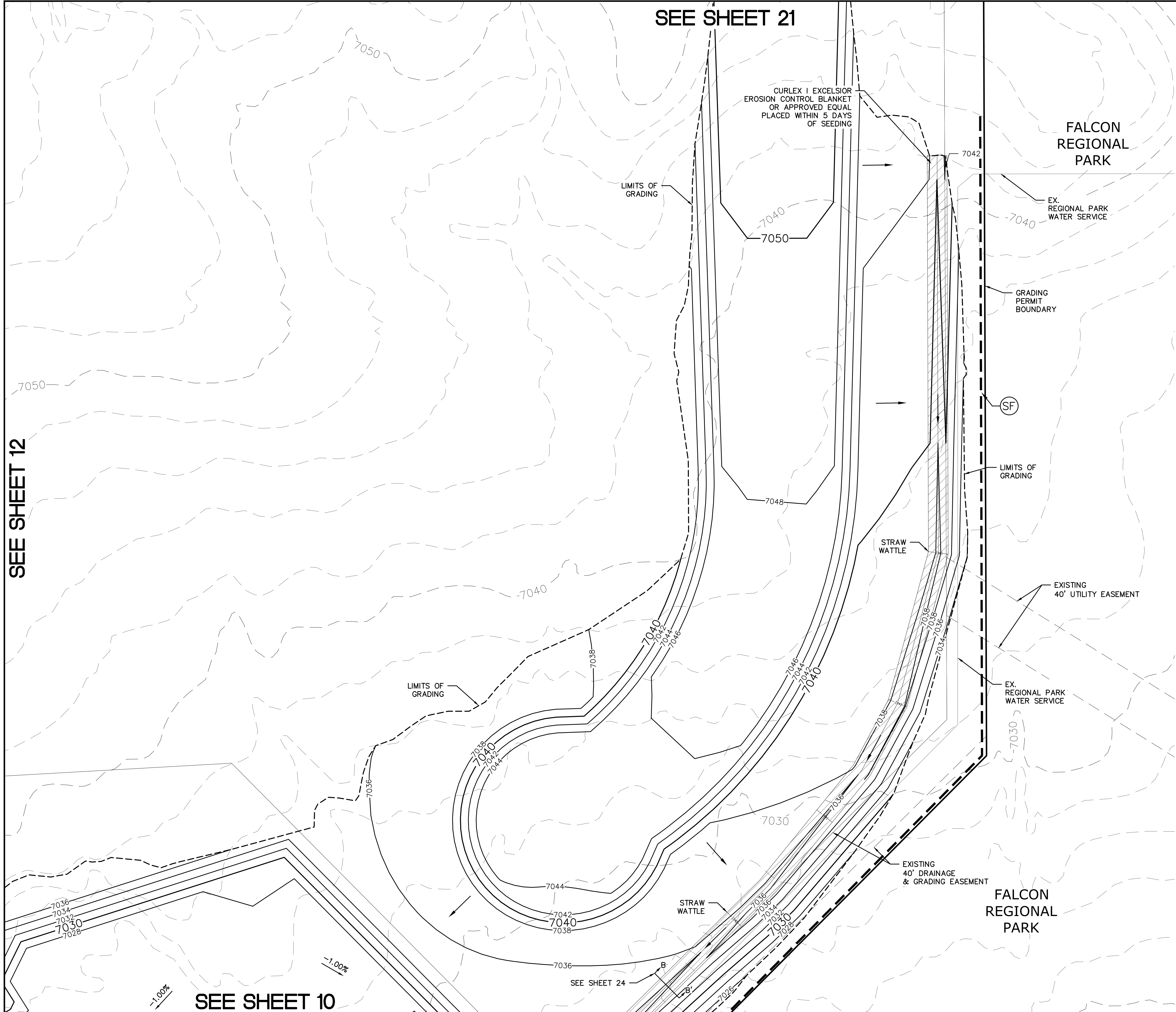


NOTE: ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 28.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
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10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



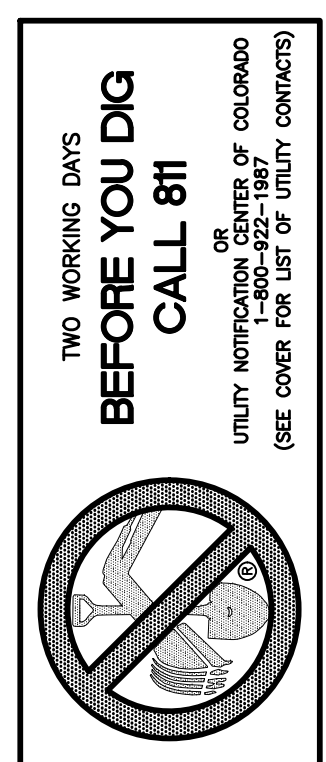
1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MARCH 2020
Scale	10 of 29			
PCD PROJECT NO. EGP-20-003				



INDEX MAP
N.T.S.

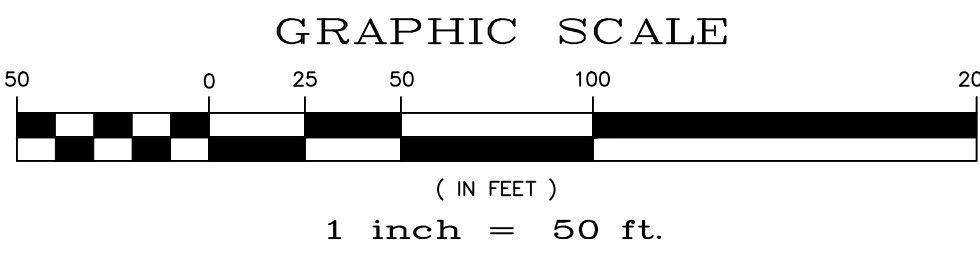
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

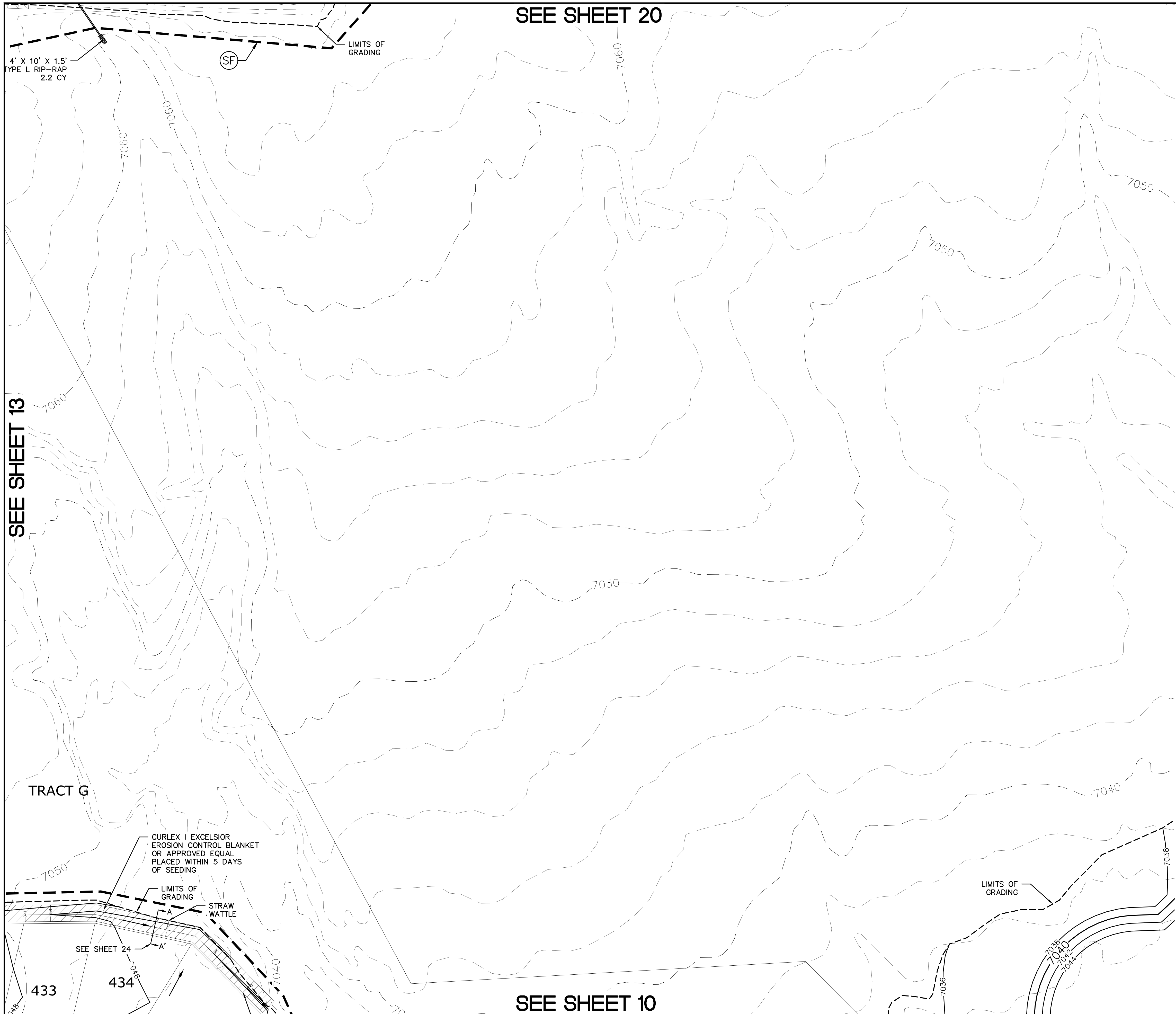


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Scale AS SHOWN	Drawn by LOG	Checked by TKM	Date MARCH 2020
	11 of 29		
<p>ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN CONTROL PLAN SHEET</p>			
<p>MERIDIAN RANCH</p>			
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>			
No.	Date	Revisions	Appr. Date
1			
2			
3			
4			

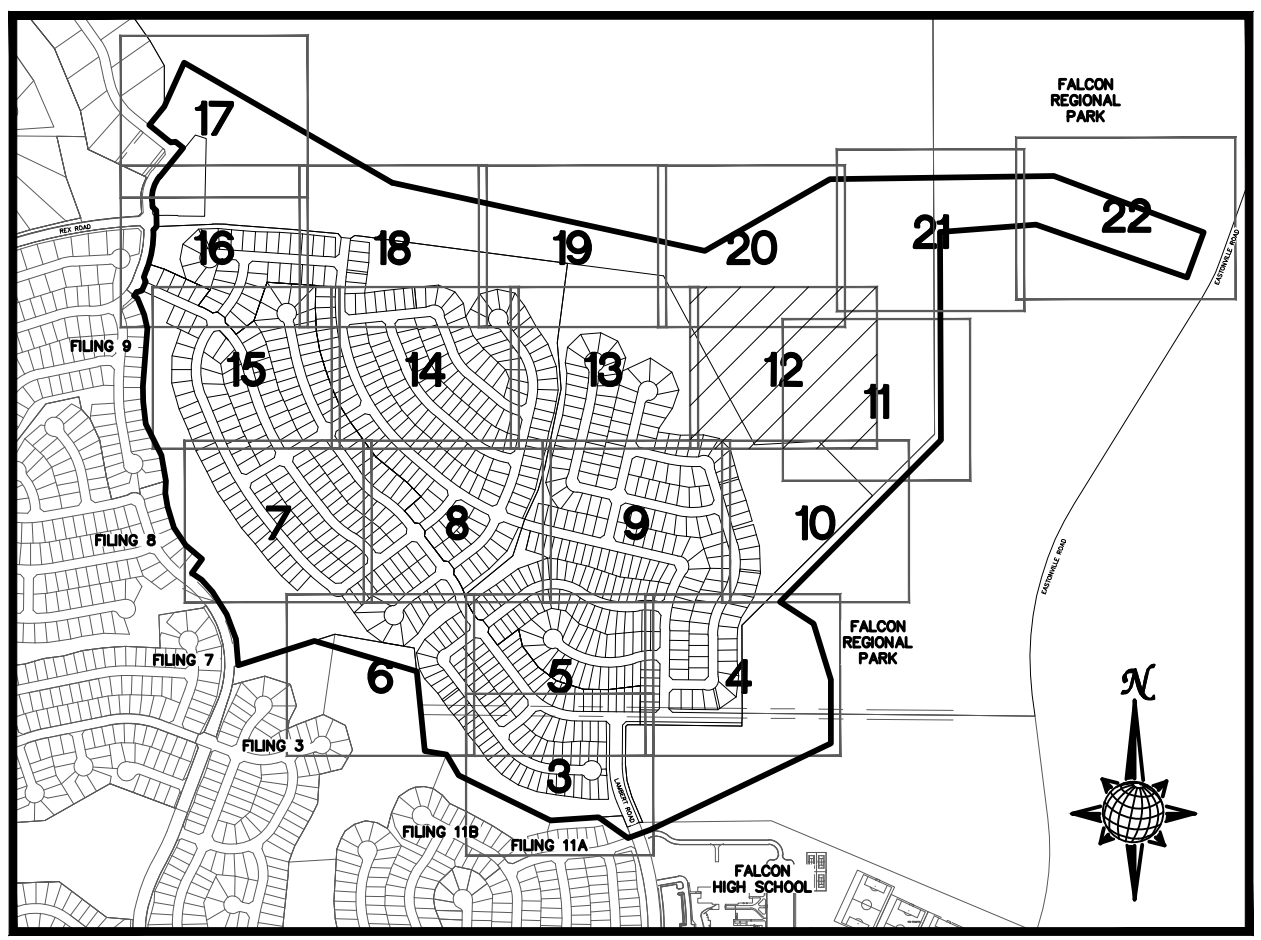


SEE SHEET 20

SEE SHEET 13

SEE SHEET 11

SEE SHEET 10



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N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	IP	INLET PROTECTION PER DETAIL SHEET 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

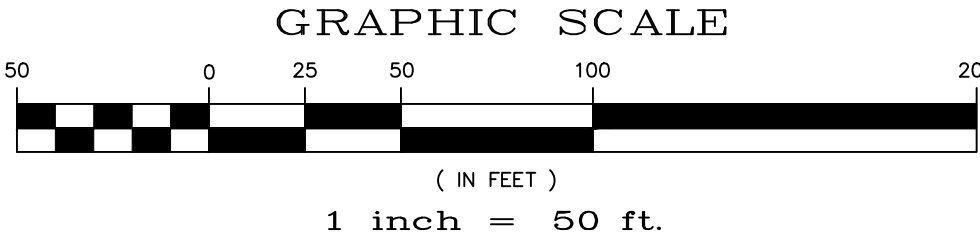
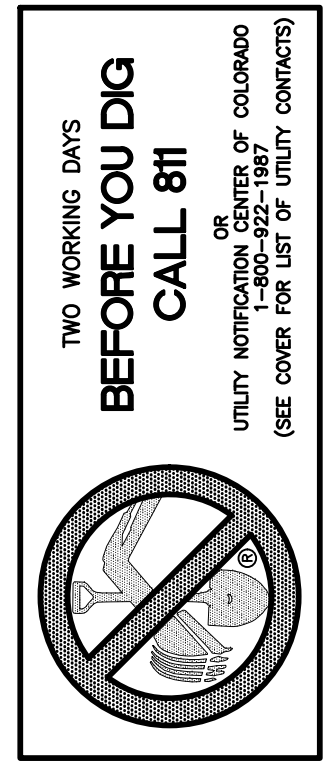
NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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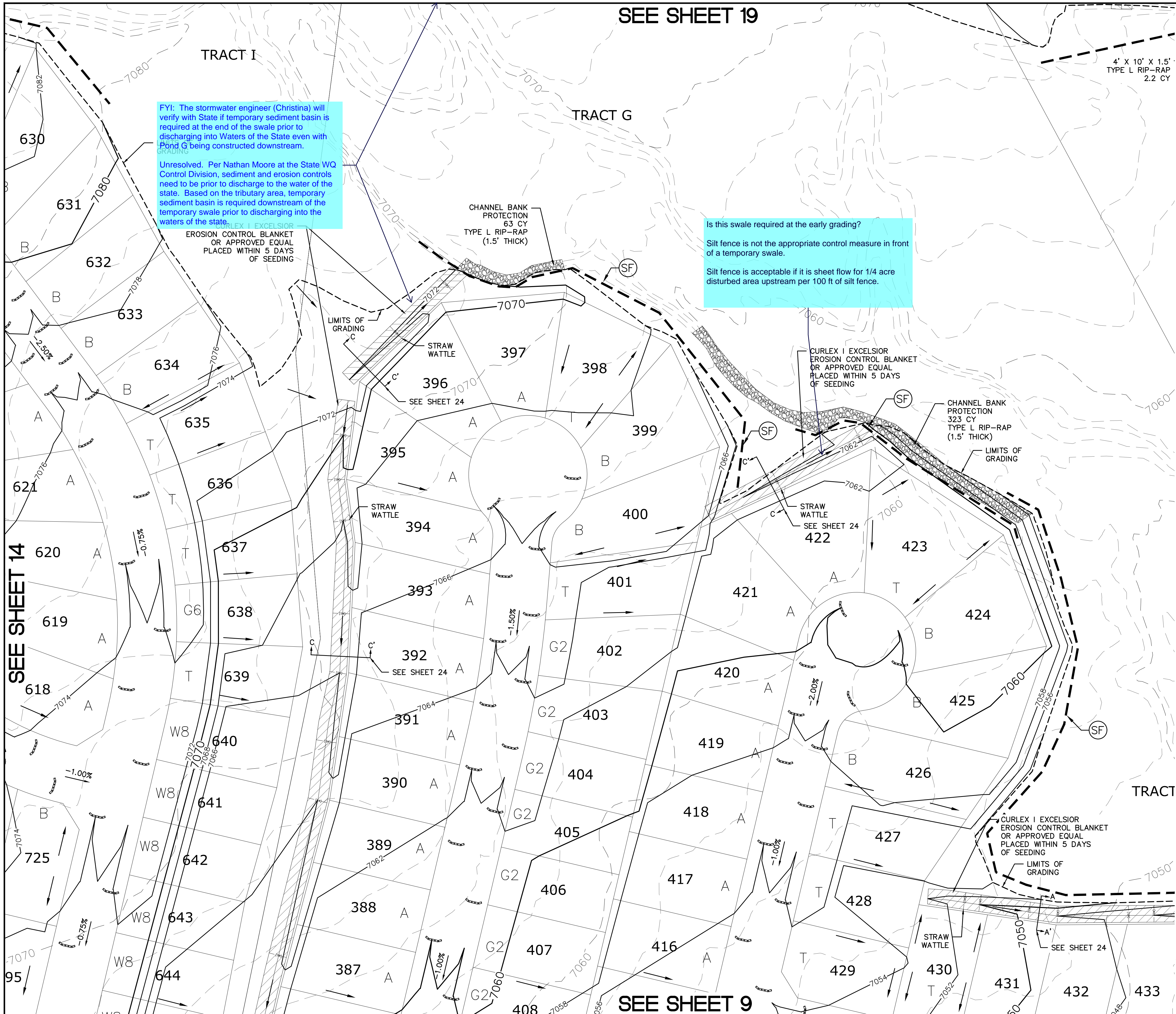
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1		2		3		4		No.	Revisions	Date	Appr.
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>											
<p>ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET</p>											
Drawn by	LOG	Checked by	TAK	Date	MARCH 2020						
Scale	AS SHOWN			12 of 29							



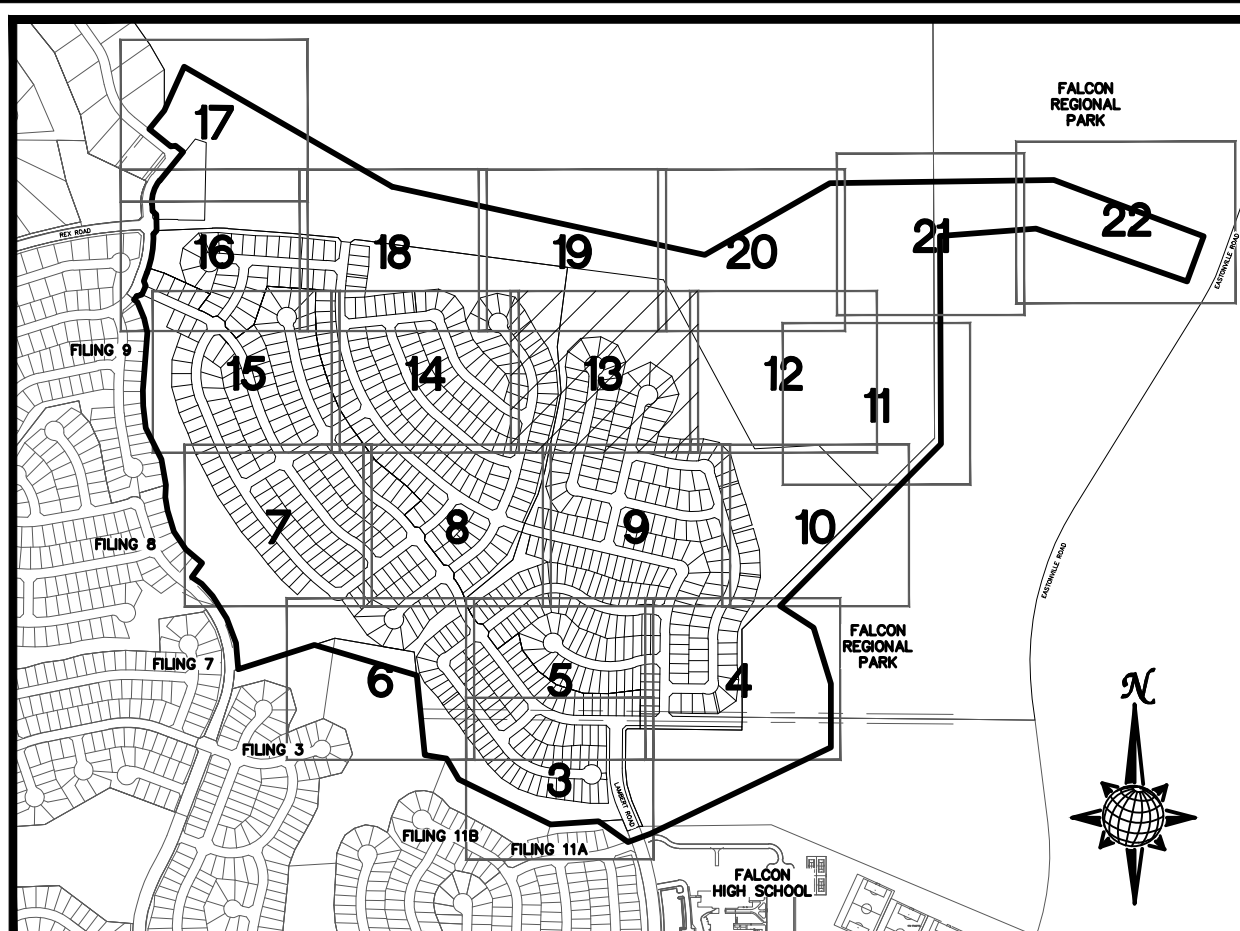
FYI: The stormwater engineer (Christina) will verify with State if temporary sediment basin is required at the end of the swale prior to discharging into Waters of the State even with Pond G being constructed downstream.

Unresolved. Per Nathan Moore at the State WQ Control Division, sediment and erosion controls need to be prior to discharge to the water of the state. Based on the tributary area, temporary sediment basin is required downstream of the temporary swale prior to discharging into the waters of the state.

Is this swale required at the early grading?

Silt fence is not the appropriate control measure in front of a temporary swale.

Silt fence is acceptable if it is sheet flow for 1/4 acre disturbed area upstream per 100 ft of silt fence.



INDEX MAP N.T.S. LEGEND

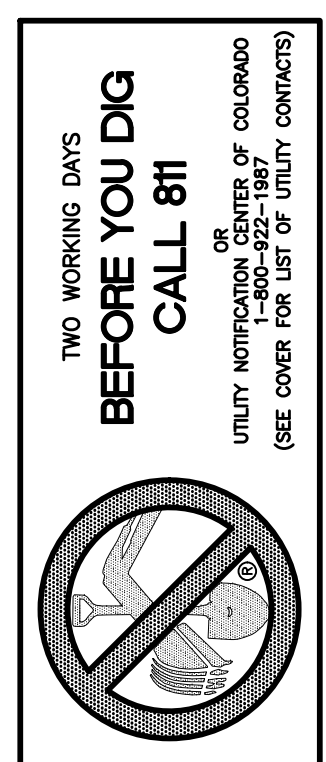
SYMBOL	ACRONYM	DESCRIPTION
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		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

SEE SHEET 12

SEE SHEET 14

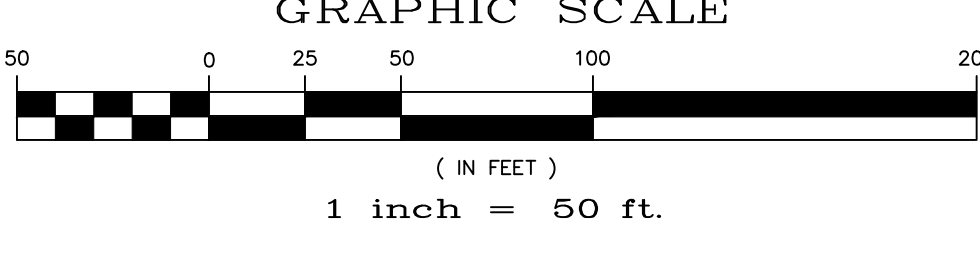
SEE SHEET 9

SEE SHEET 19

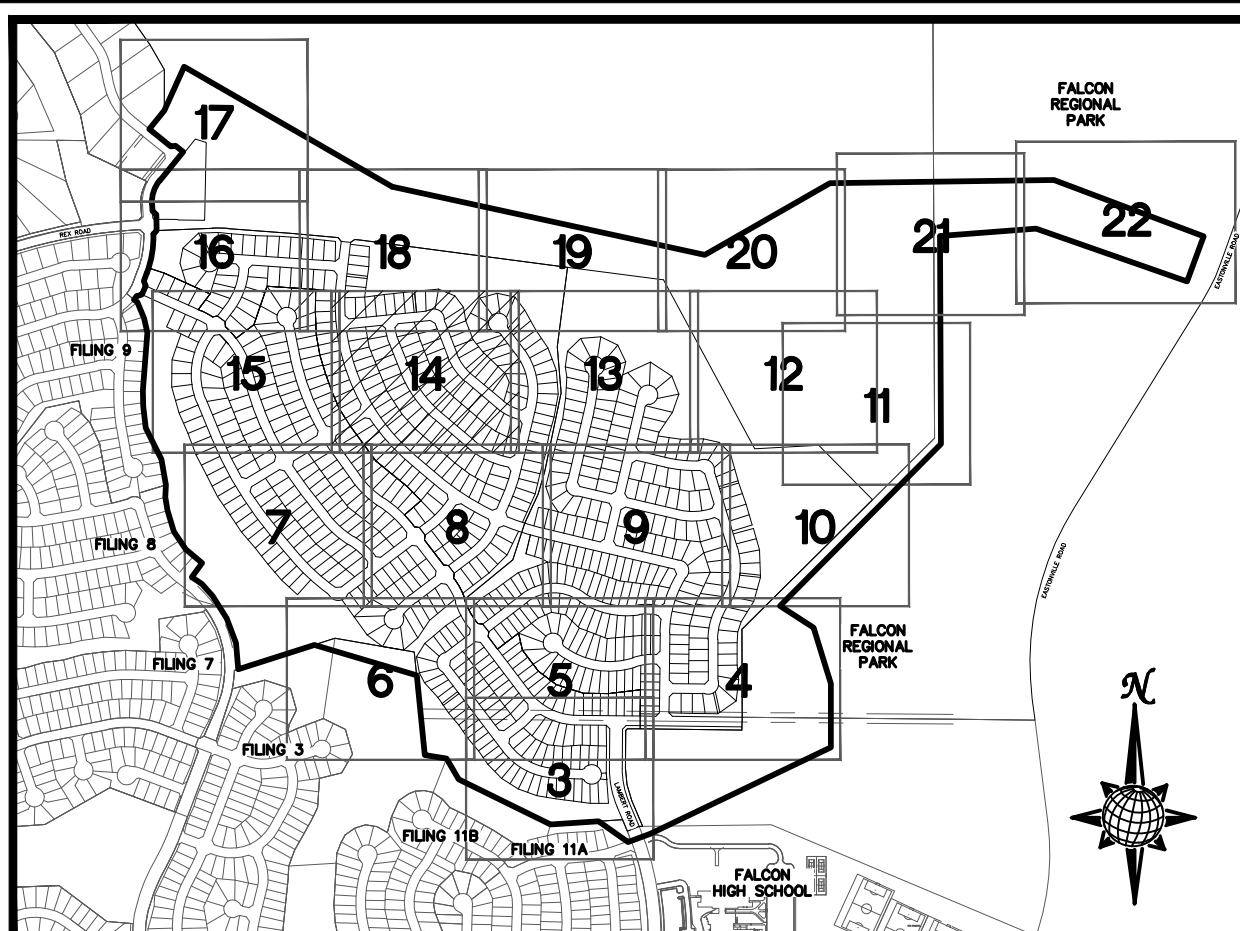
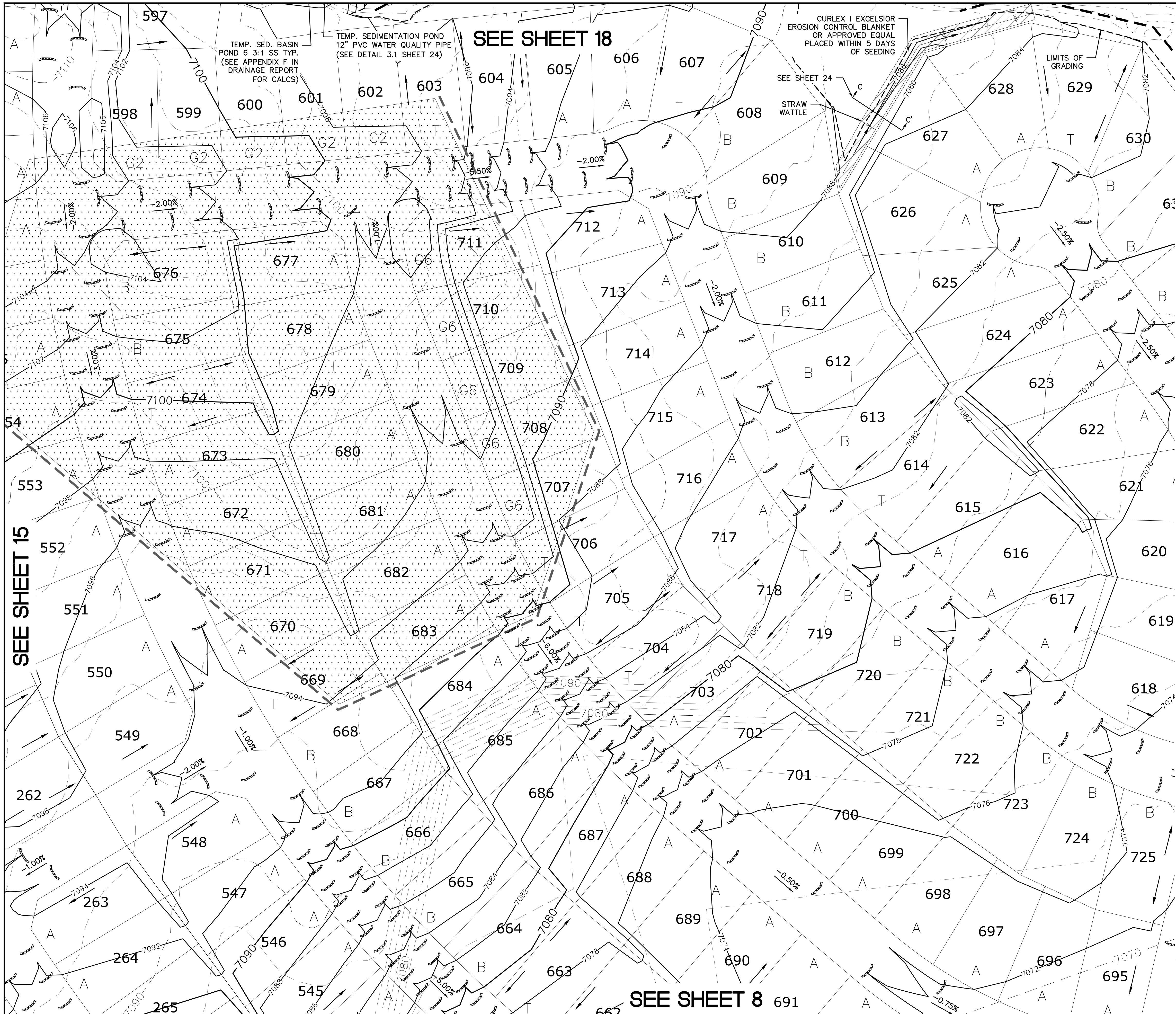


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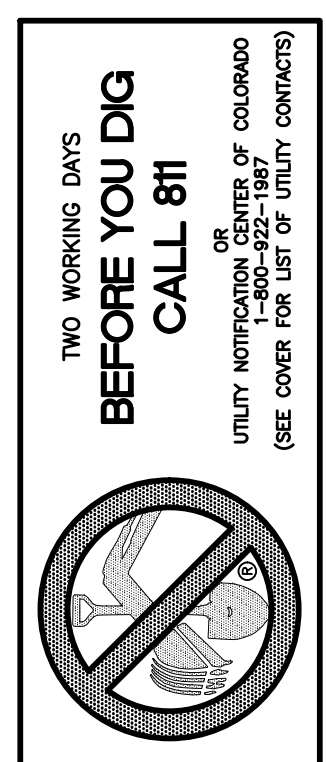
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH	
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET		Drawn by LOG	Checked by TKM
Scale AS SHOWN		Date 13 of 29	DATE MARCH 2020
		Date	Appr.
		Revisions	No.



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N.T.S.
LEGEND

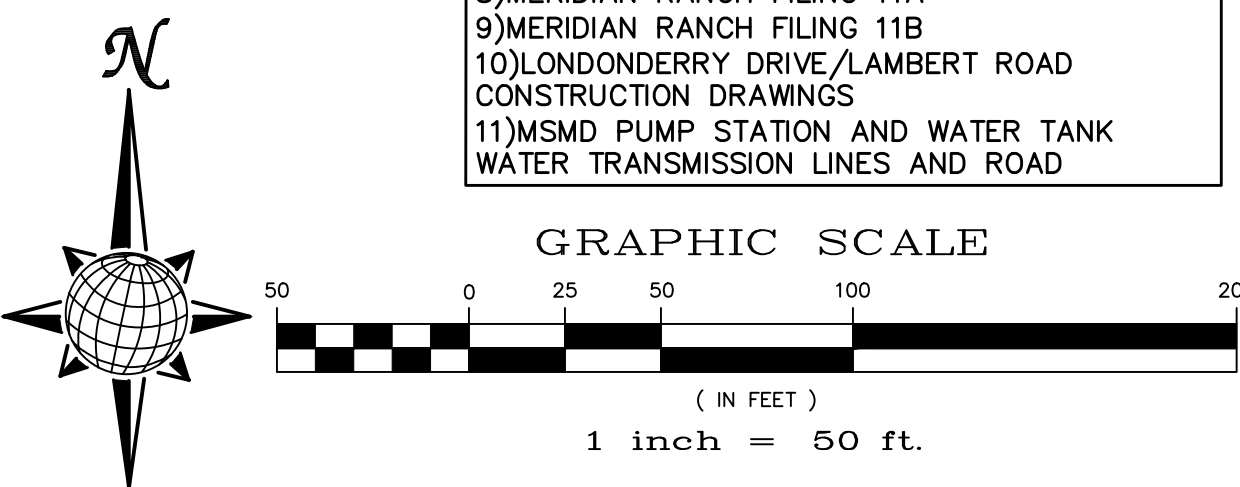
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
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		EXISTING CONTOUR (10')
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		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

SEE SHEET 13

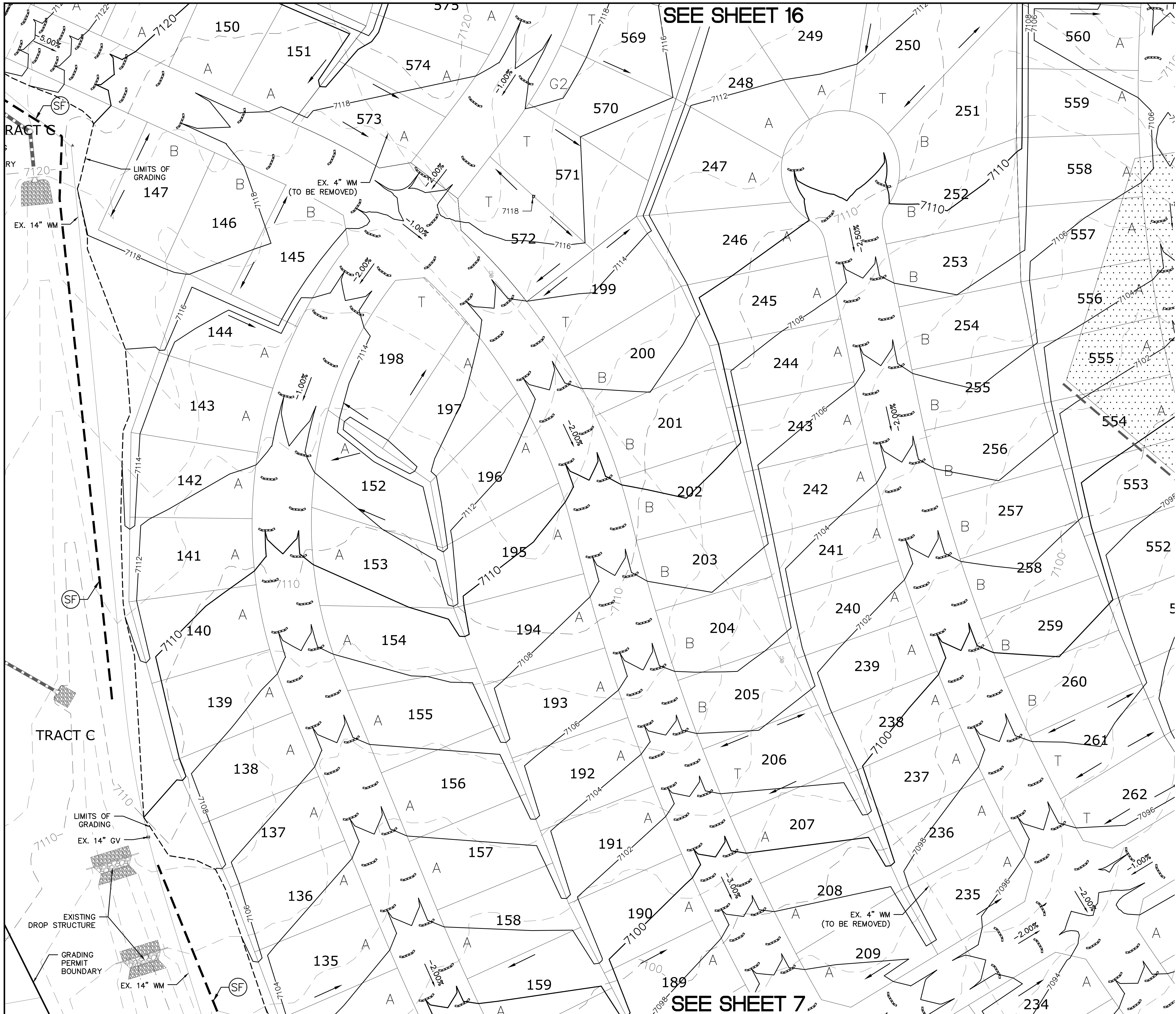


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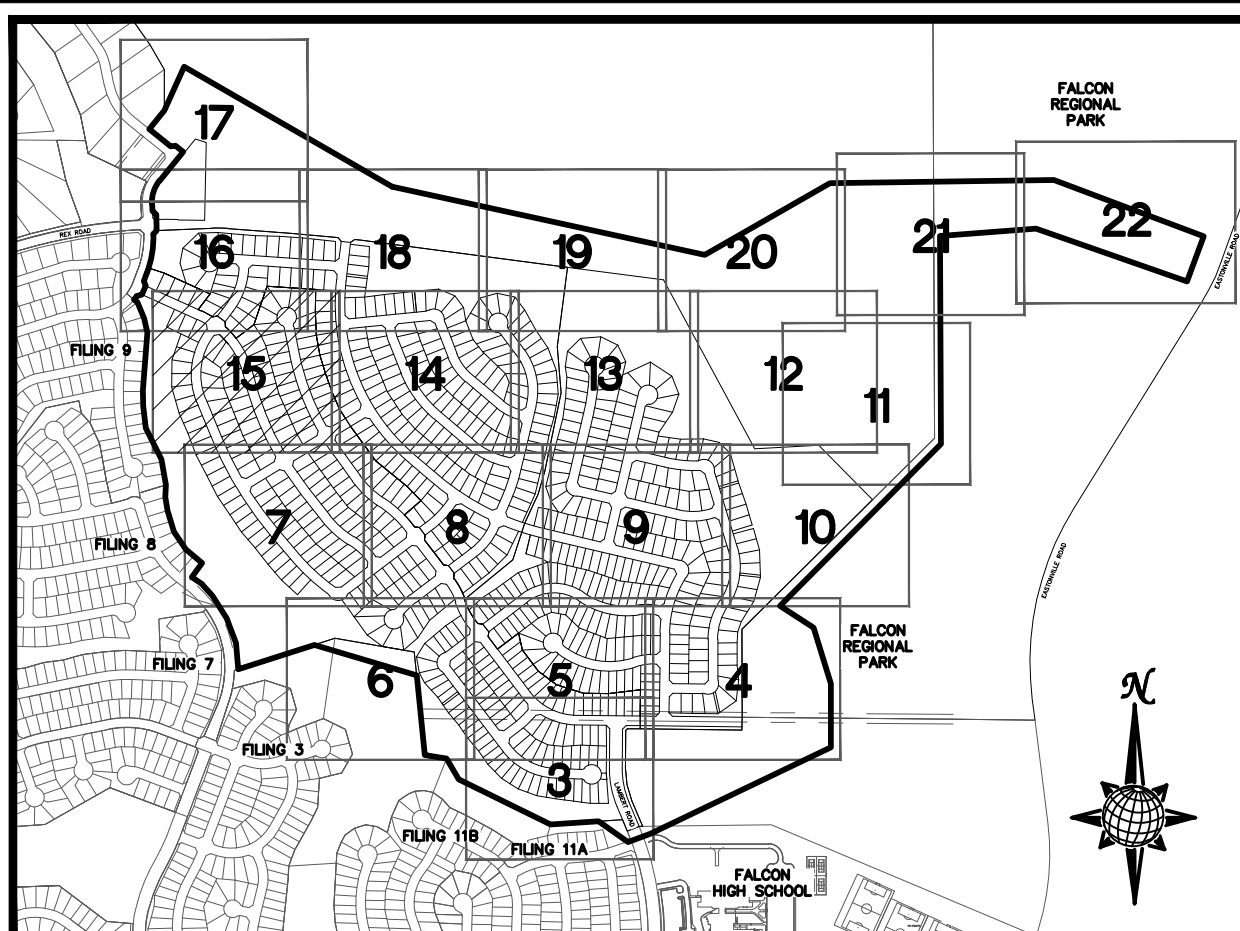


1	2	3	4	No.	Revisions	Date	Appr.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457							
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ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET							
Drawn by	LOG	Checked by	TAK	Date	MARCH 2020		
Scale	AS SHOWN	14	of	29			



SEE SHEET 16

SEE SHEET 7



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N.T.S.
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	IP	INLET PROTECTION PER DETAIL SHEET 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		75
		A
		EXISTING STOCKPILE AREAS

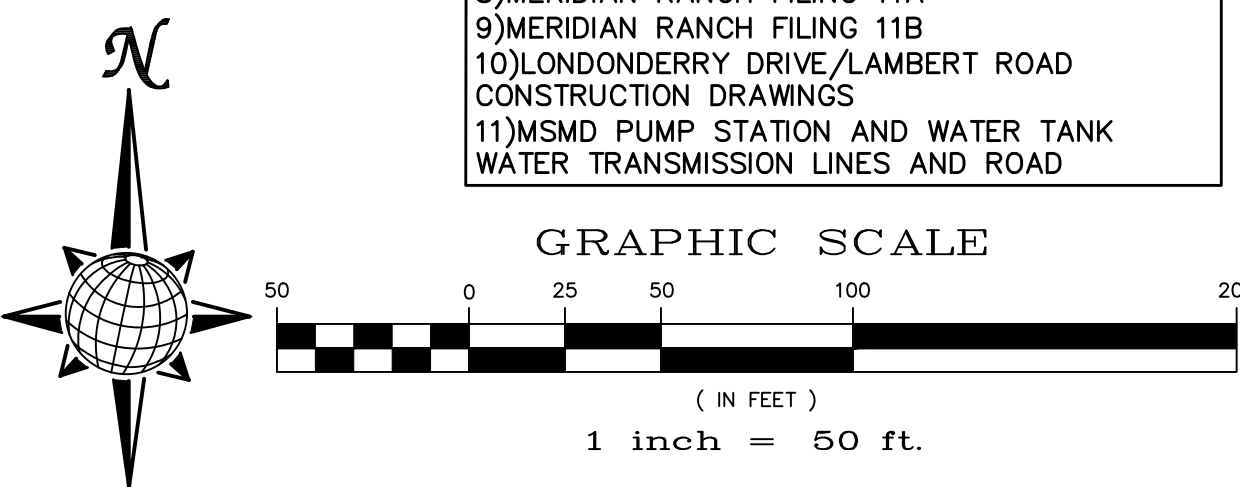
SEE SHEET 14

TWO WORKING DAYS BEFORE YOU DIG CALL 811

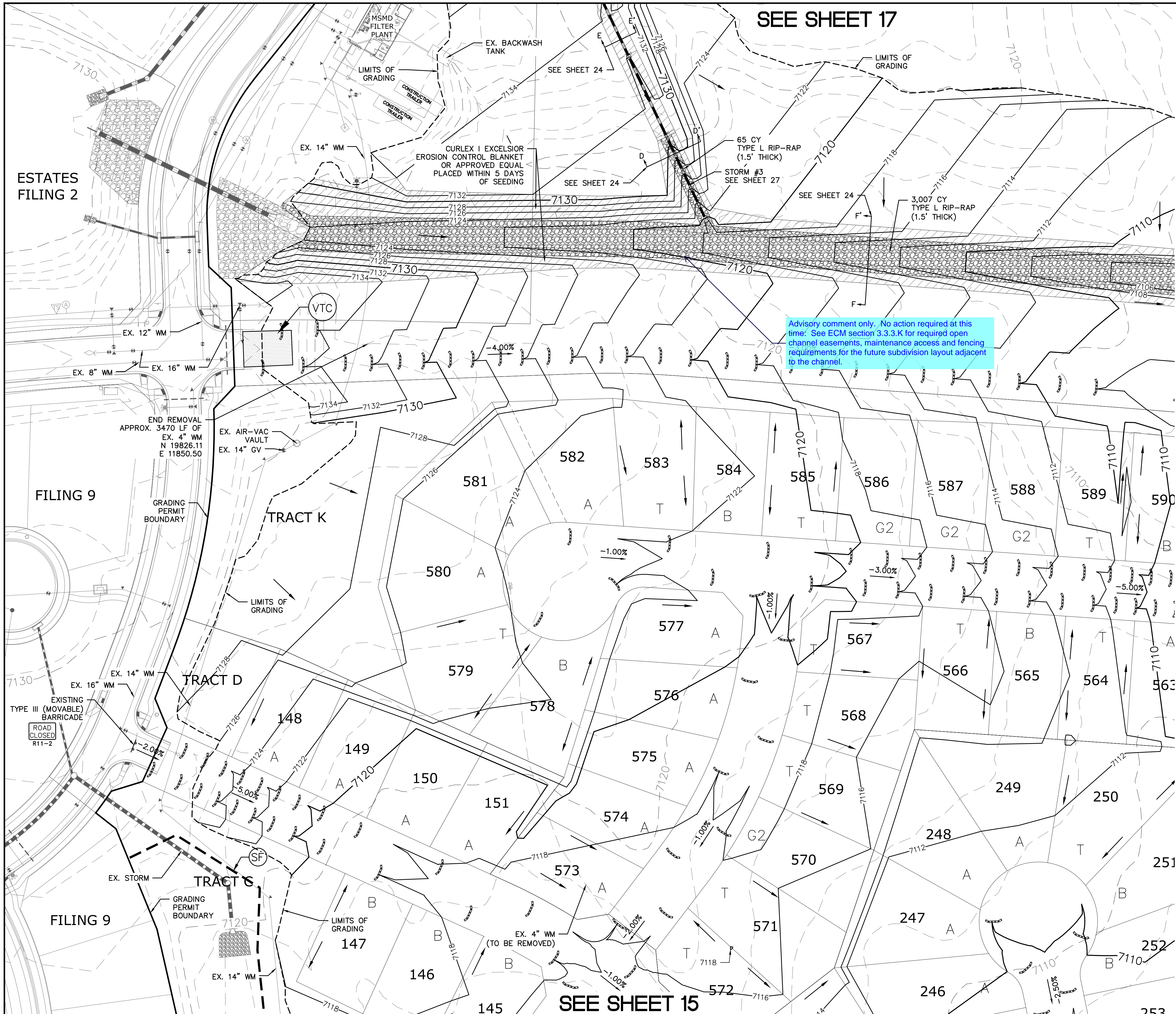
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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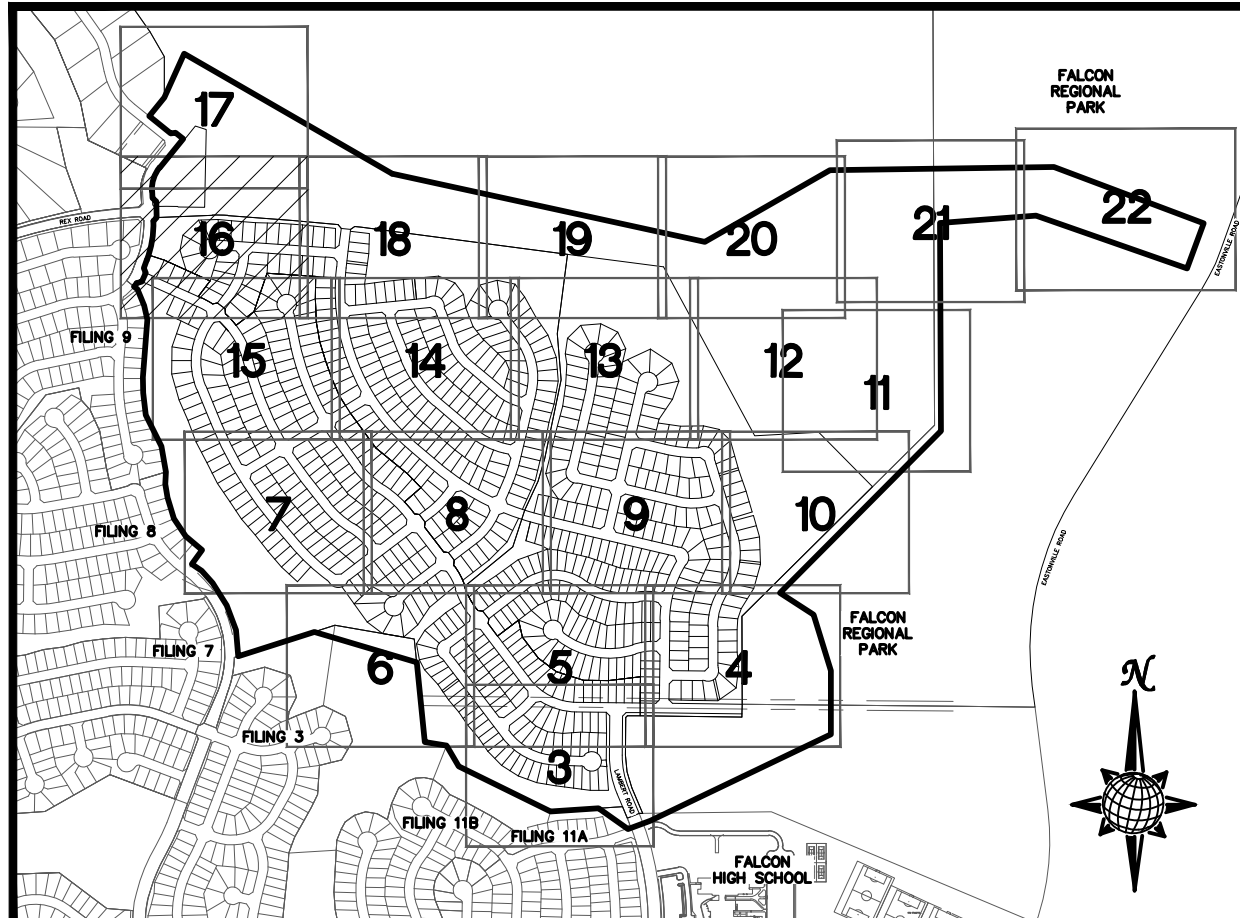
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1	2	3	4	No.	Revisions	Date	Instr.	Appr.	Date
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Drawn by	LOG	Checked by	TAK	Date	MARCH 2020				
Scale	AS SHOWN	15	of	29					



SEE SHEET 17

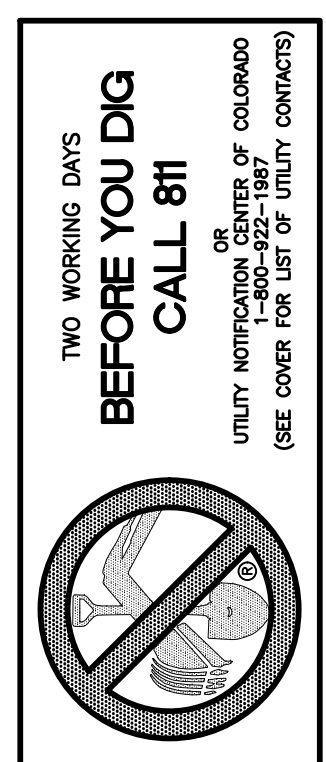


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	IP	INLET PROTECTION PER DETAIL SHEET 29
		LIMITS OF GRADING
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		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		75
		A
		EXISTING STOCKPILE AREAS

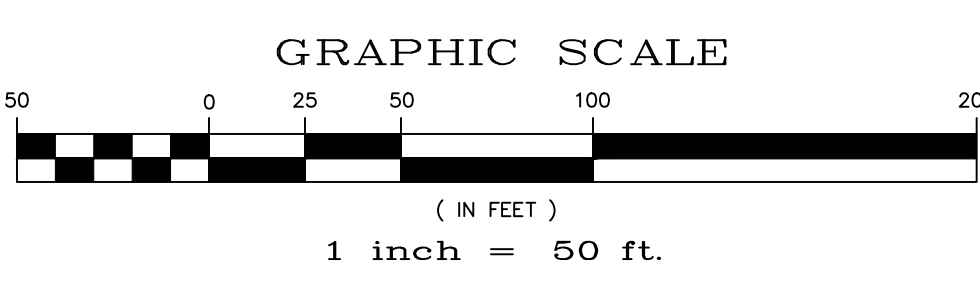
Advisory comment only. No action required at this time. See ECM section 3.3.3.K for required open channel easements, maintenance access and fencing requirements for the future subdivision layout adjacent to the channel.

SEE SHEET 18

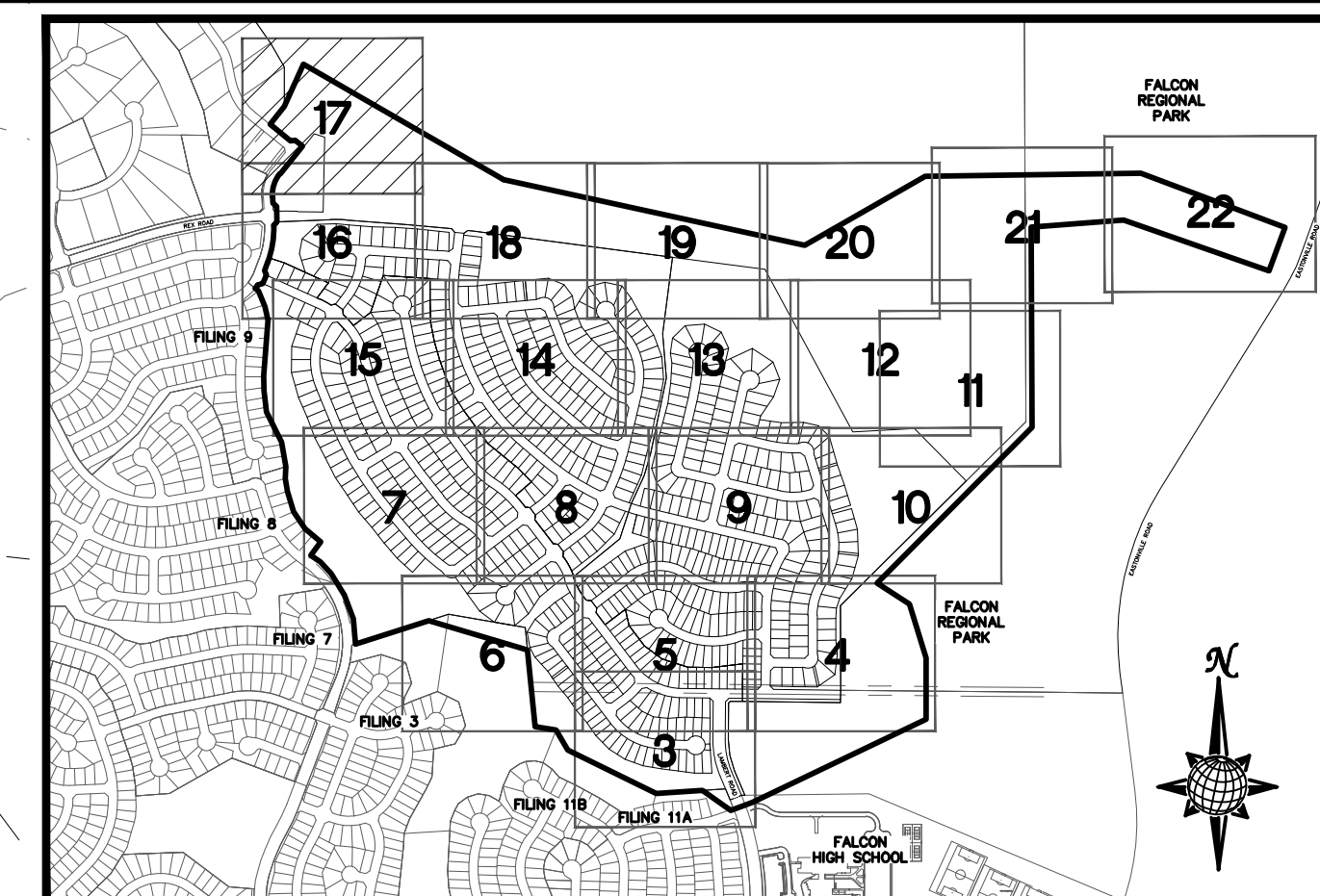
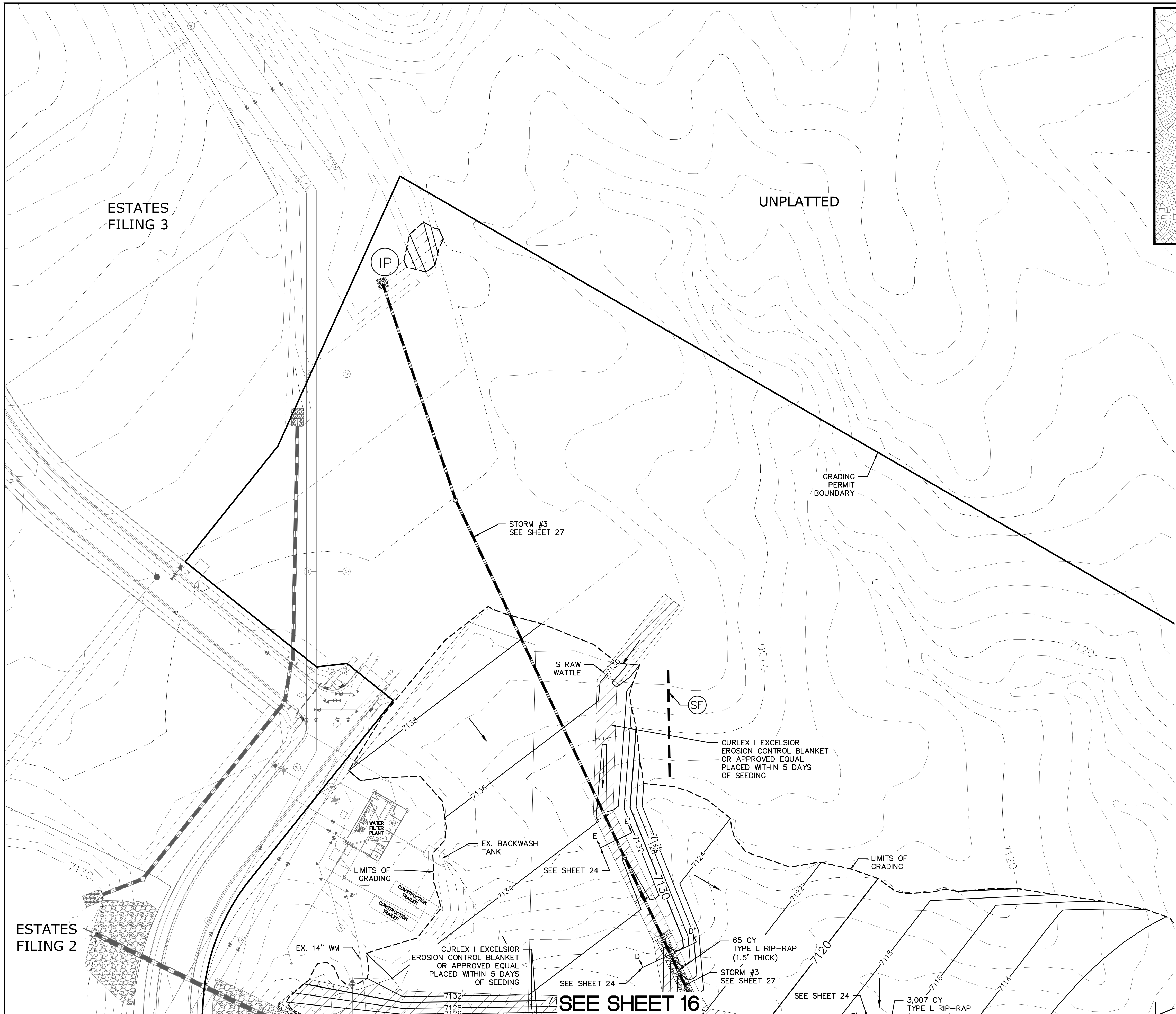


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Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				16 of 29
Scale	MARCH 2020			
				Revisions
				Date
				Appr.



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N.T.S.

LEGEND

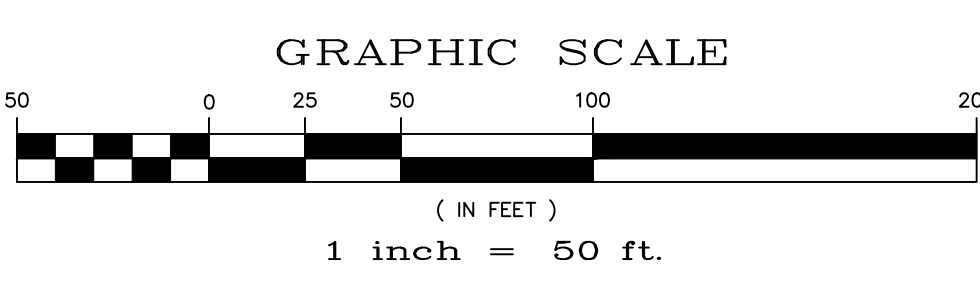
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		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		75
		A
		EXISTING STOCKPILE AREAS

TWO WORKING DAYS BEFORE YOU DIG CALL 811

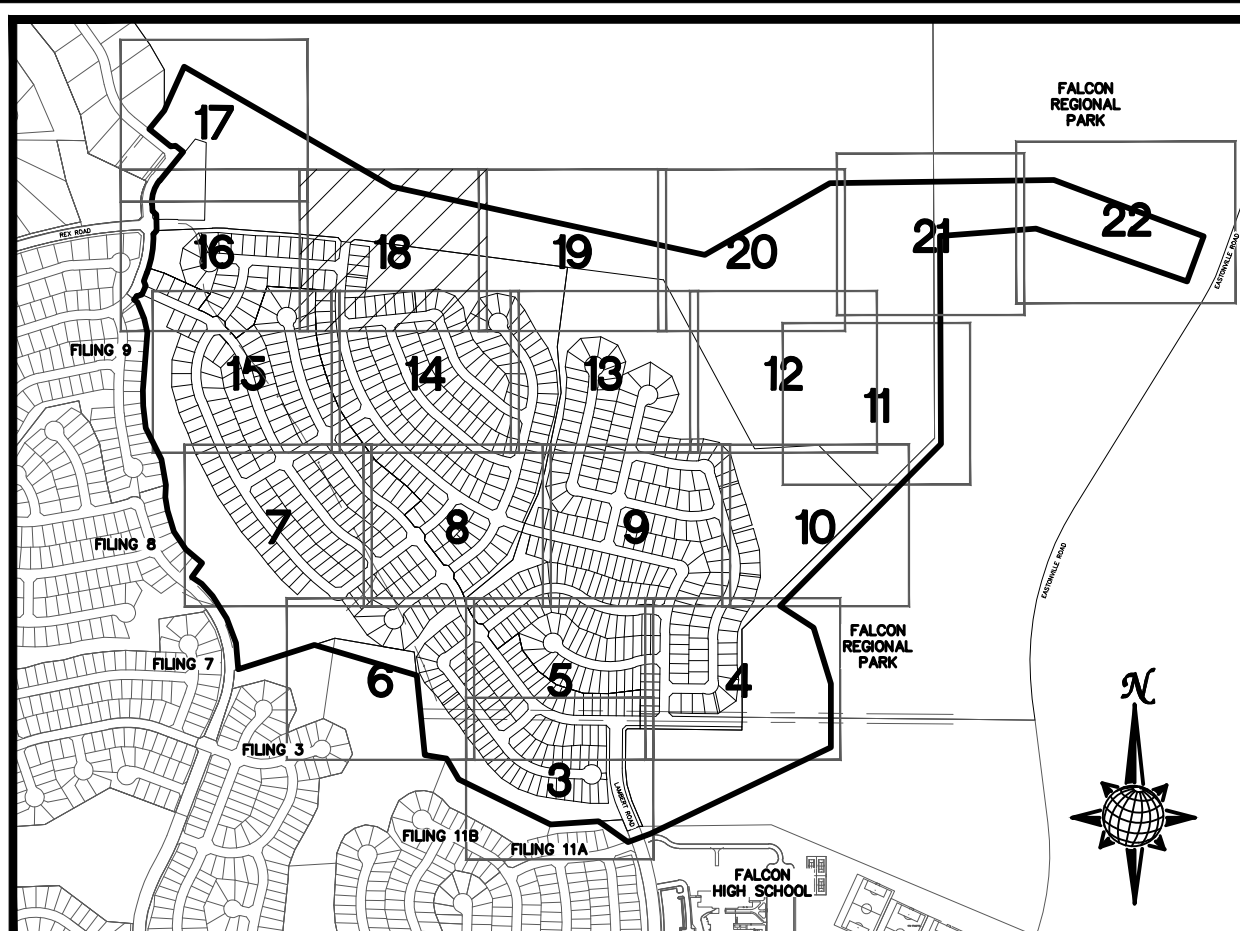
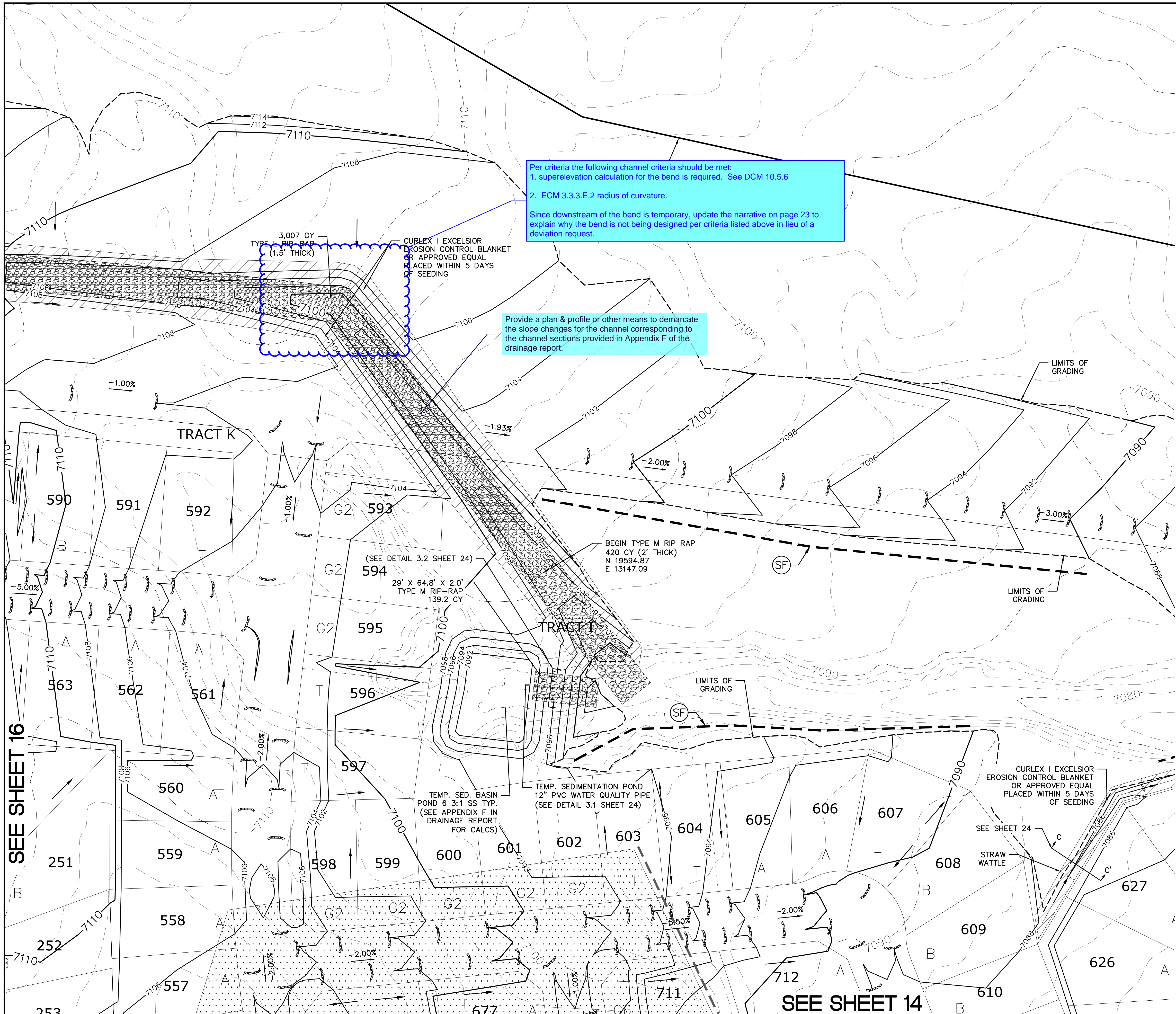
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
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2)ESTATES FILING 3 AT MERIDIAN RANCH
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10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

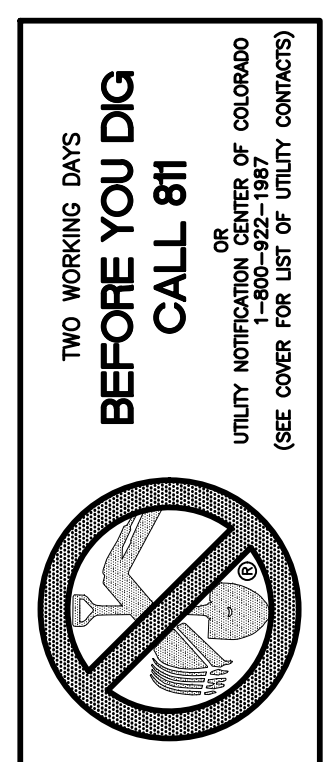


1	2	3	4	No.	Revisions	Date	Instr.	Appr.	Date
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>									
<p>MERIDIAN RANCH</p>									
<p>ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN CONTROL PLAN PLAN SHEET</p>									
Drawn by	LOG	Checked by	TAK	Date	MARCH 2020				
Scale	AS SHOWN			17 of 29					



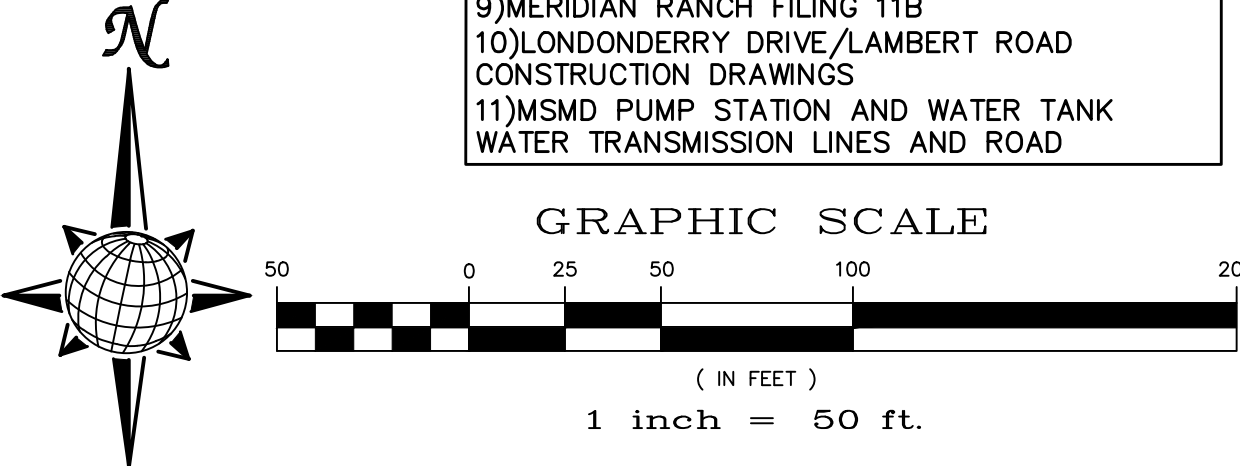
INDEX MAP N.T.S.
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

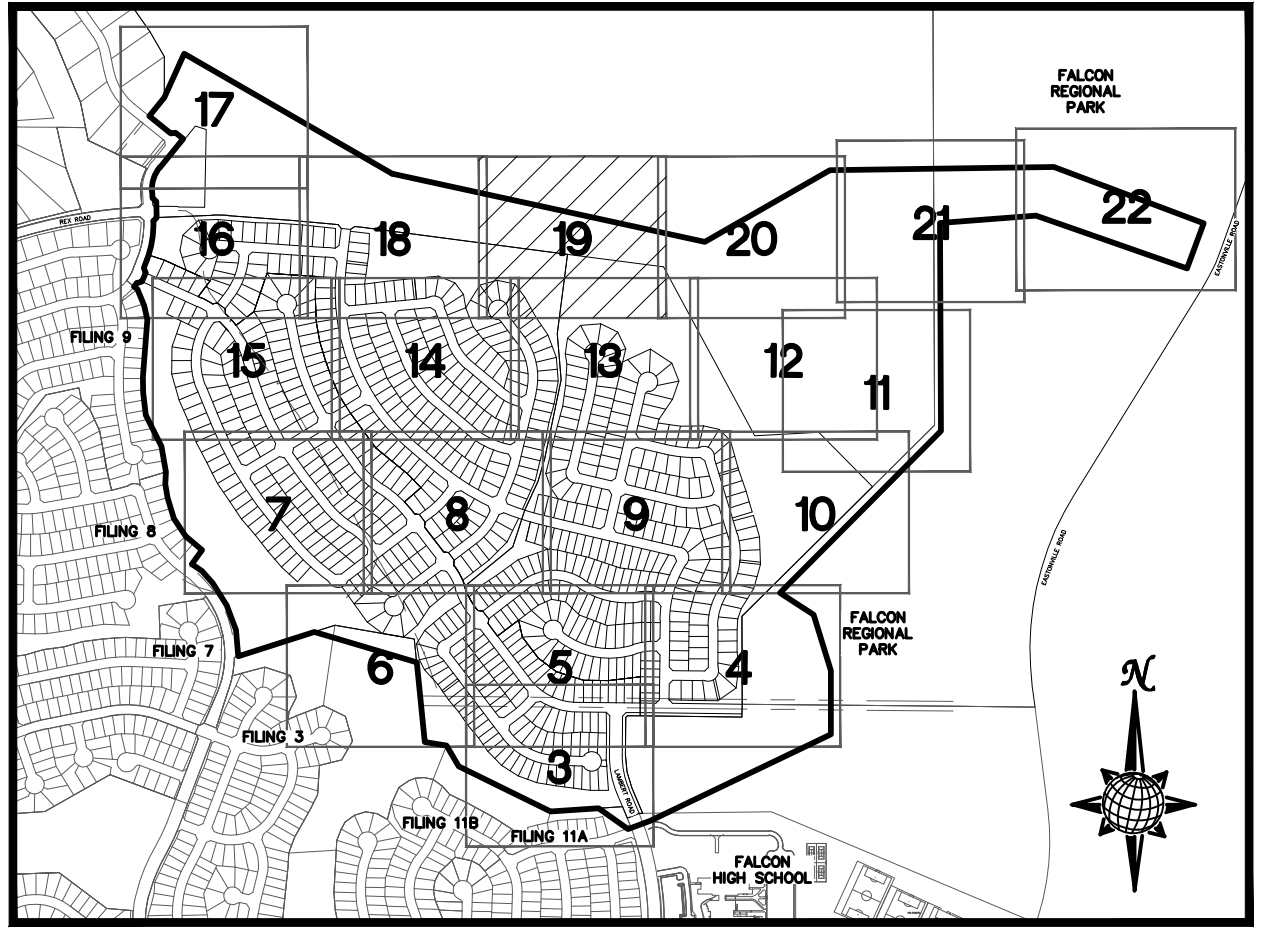
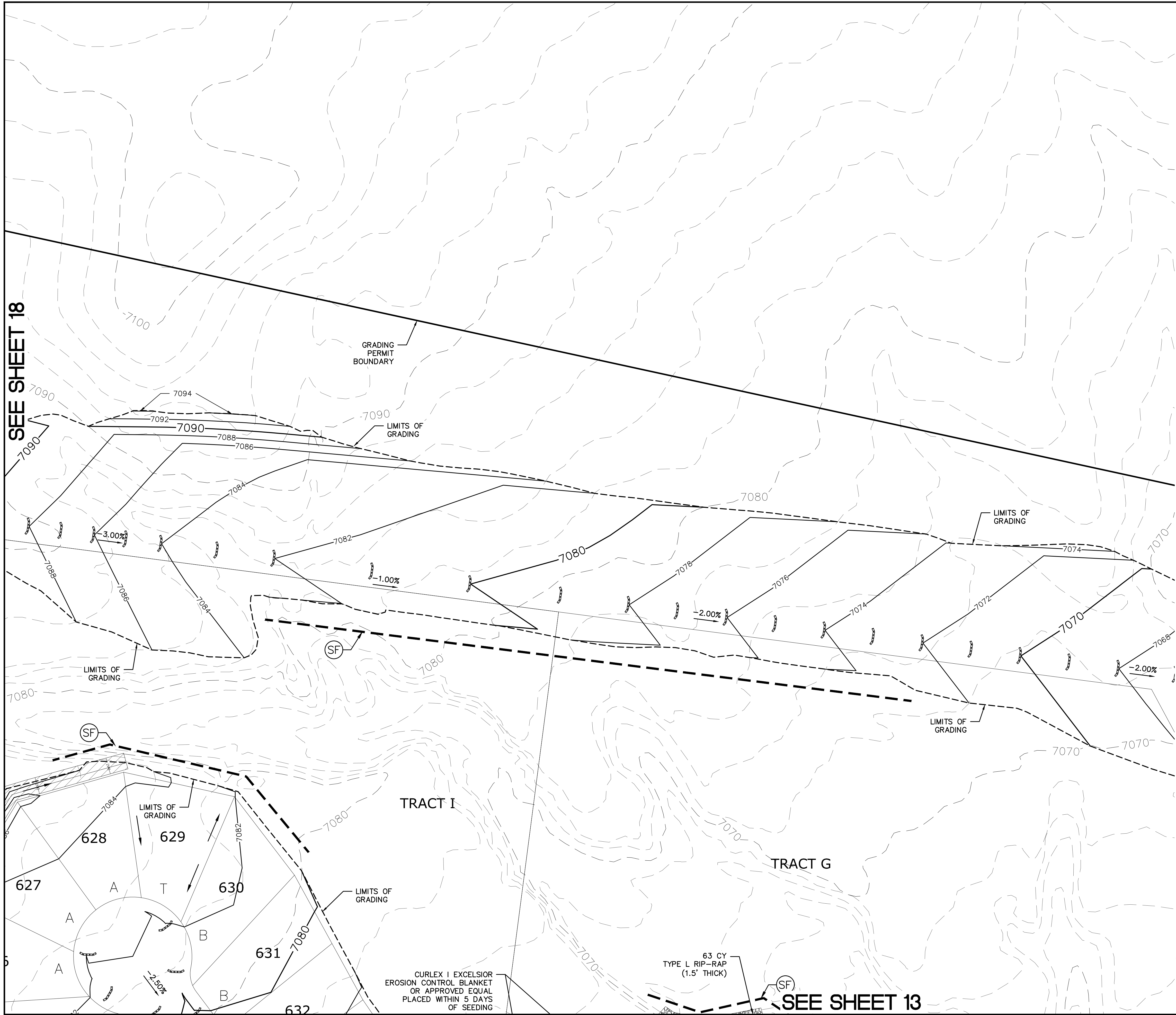


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 11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MARCH 2020
Scale	18 of 29			
PCD PROJECT NO. EGP-20-003				



INDEX MAP
N.T.S.

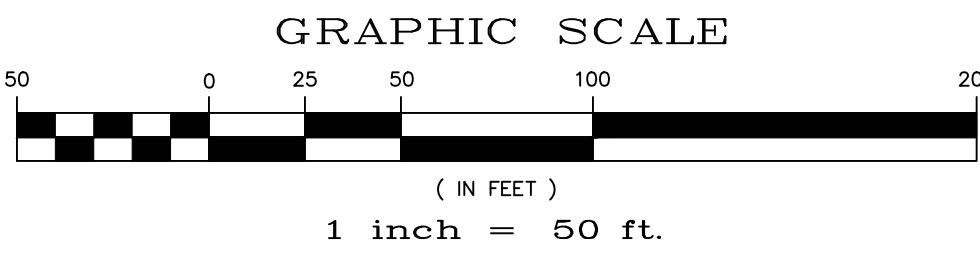
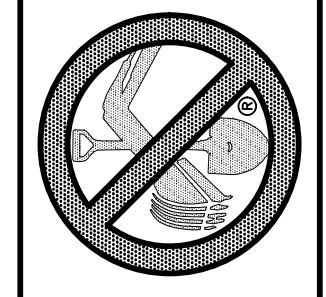
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
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		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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TWO WORKING DAYS
BEFORE YOU DIG
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UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

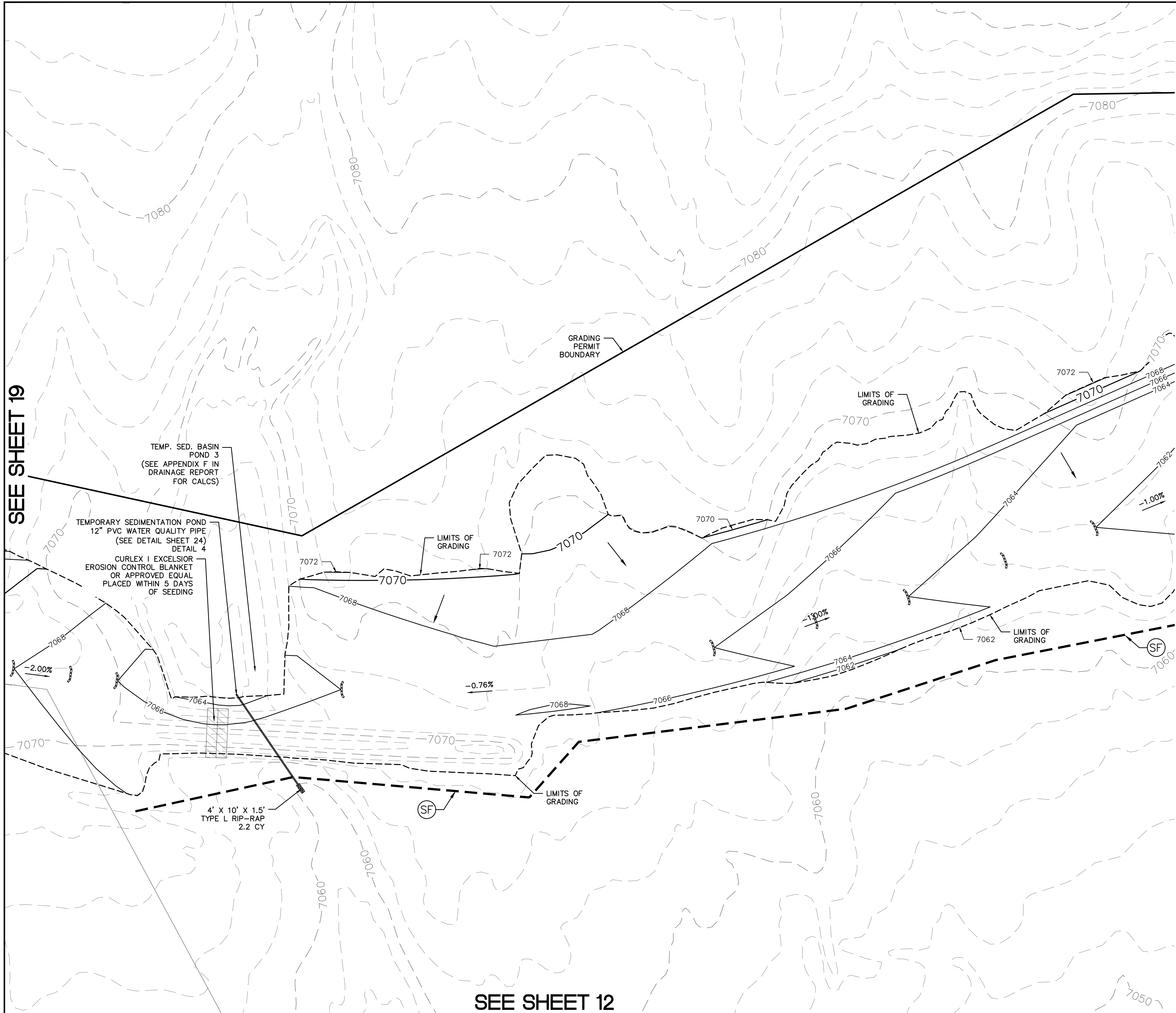


SEE SHEET 18

SEE SHEET 20

SEE SHEET 13

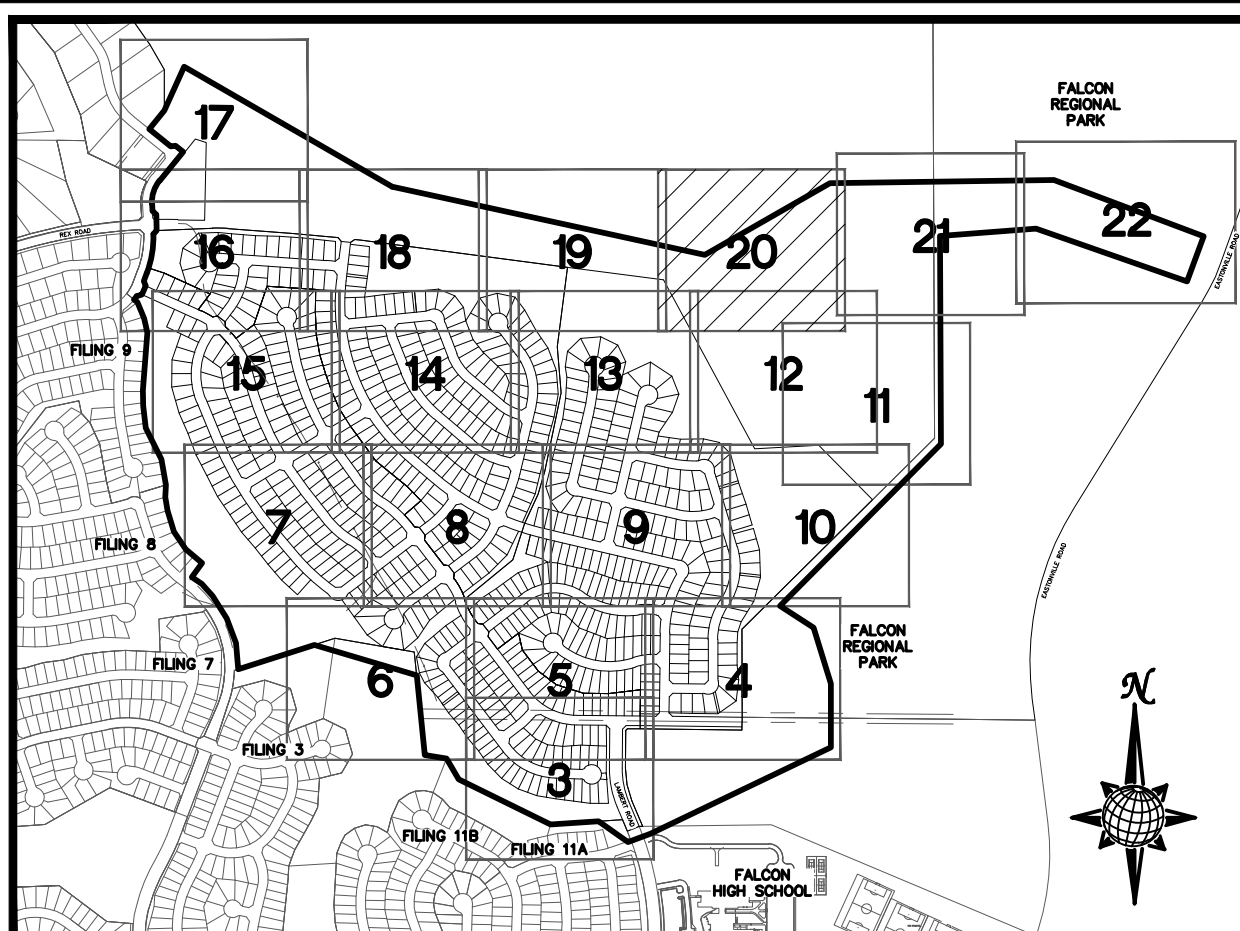
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH		ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET	
Drawn by	LOG	Checked by	TKM	Date	MARCH 2020
Scale	AS SHOWN			19	of 29
				Date	19/03/2020
				Revisions	
				Date	
				Appr.	
				Date	



SEE SHEET 19

SEE SHEET 21

SEE SHEET 12



INDEX MAP
N.T.S.
LEGEND

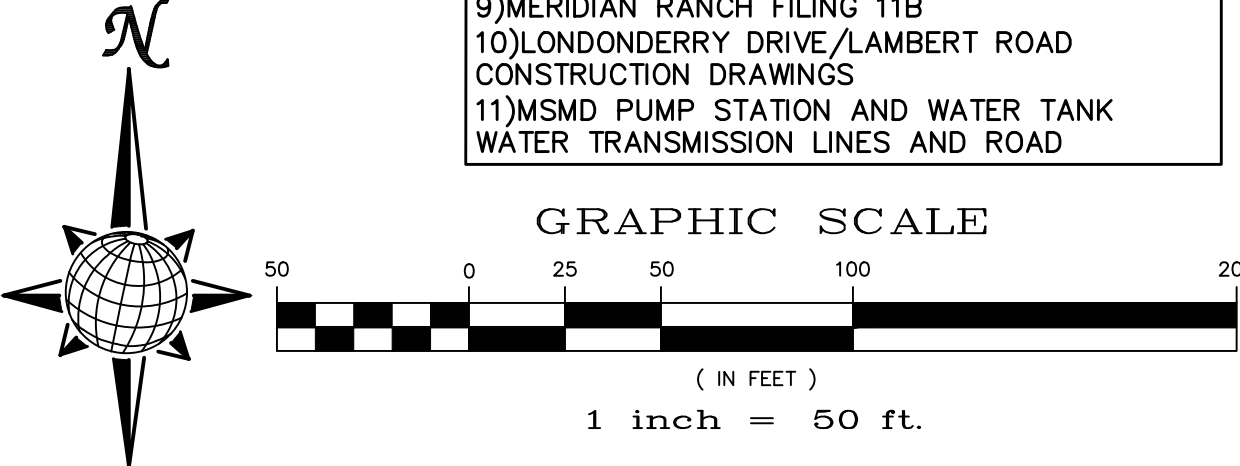
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		GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

TWO WORKING DAYS BEFORE YOU DIG CALL 811

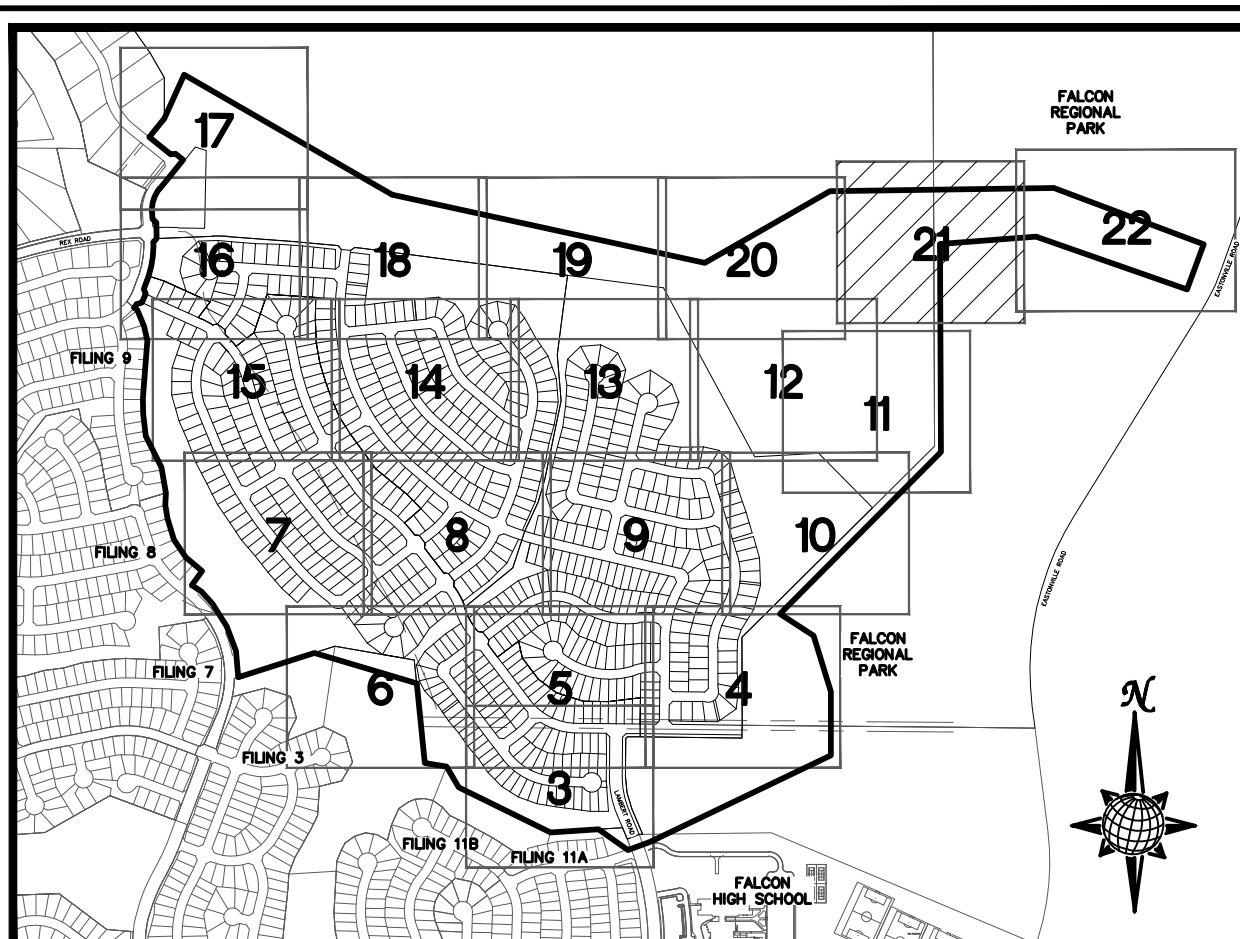
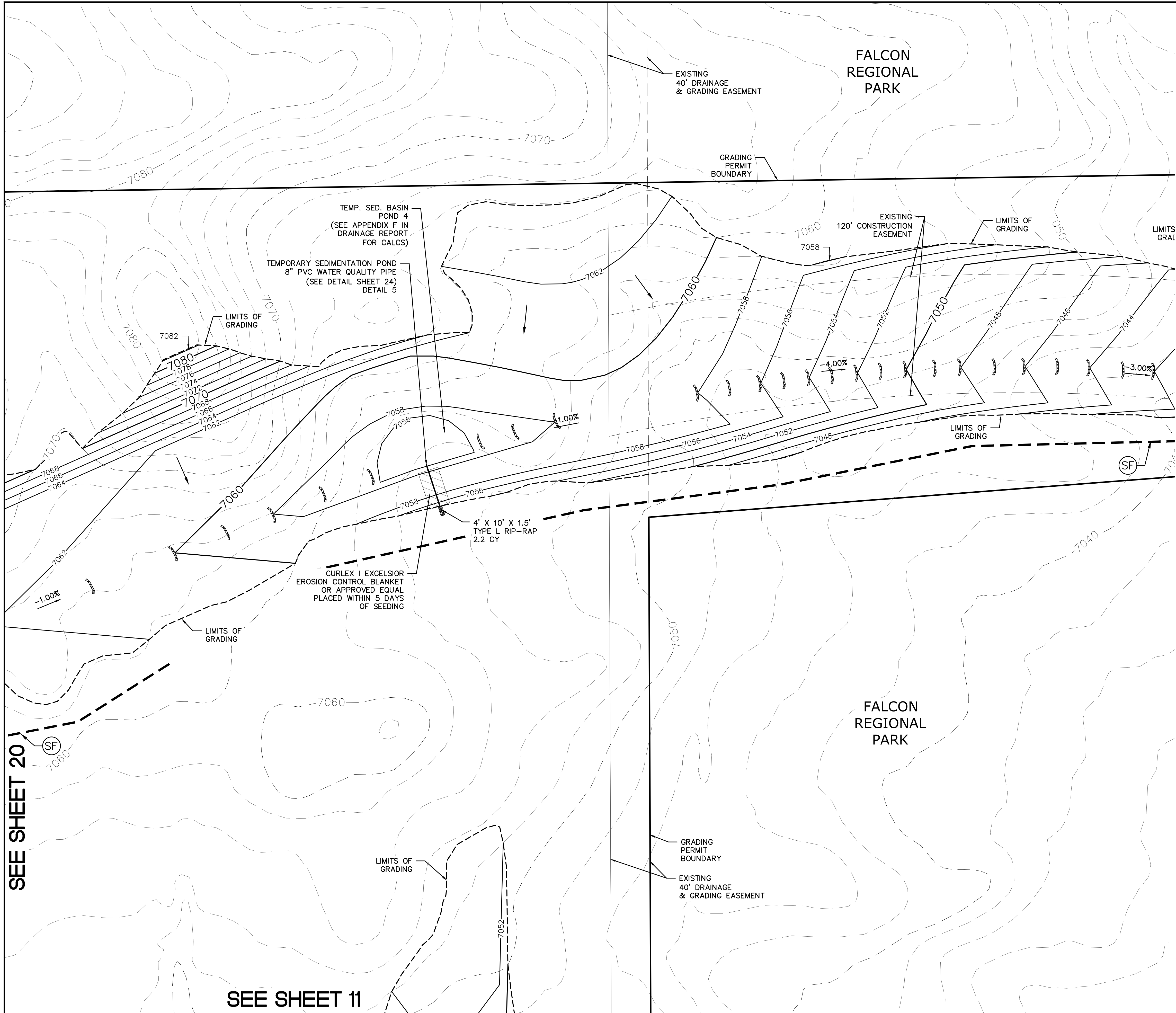
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1	2	3	4	No.	Revisions	Date	Appr.
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>							
<p>ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN CONTROL PLAN PLAN SHEET</p>							
Drawn by	LOG	Checked by	TAK	Date	MARCH 2020		
Scale	AS SHOWN		20 of 29				



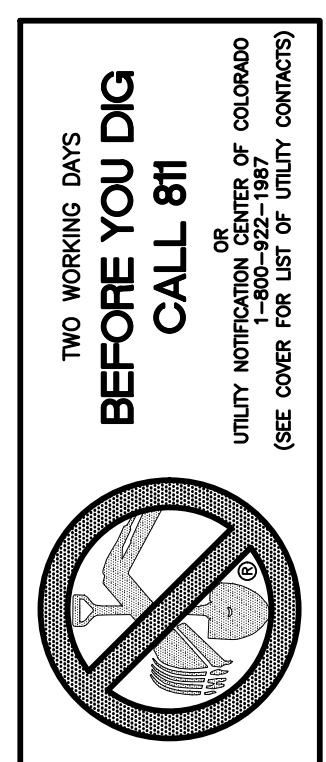
INDEX MAP
N.T.S.
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
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		EXISTING CONTOUR (10')
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		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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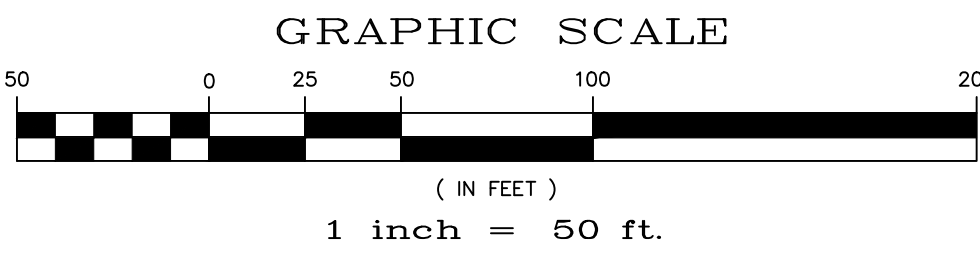
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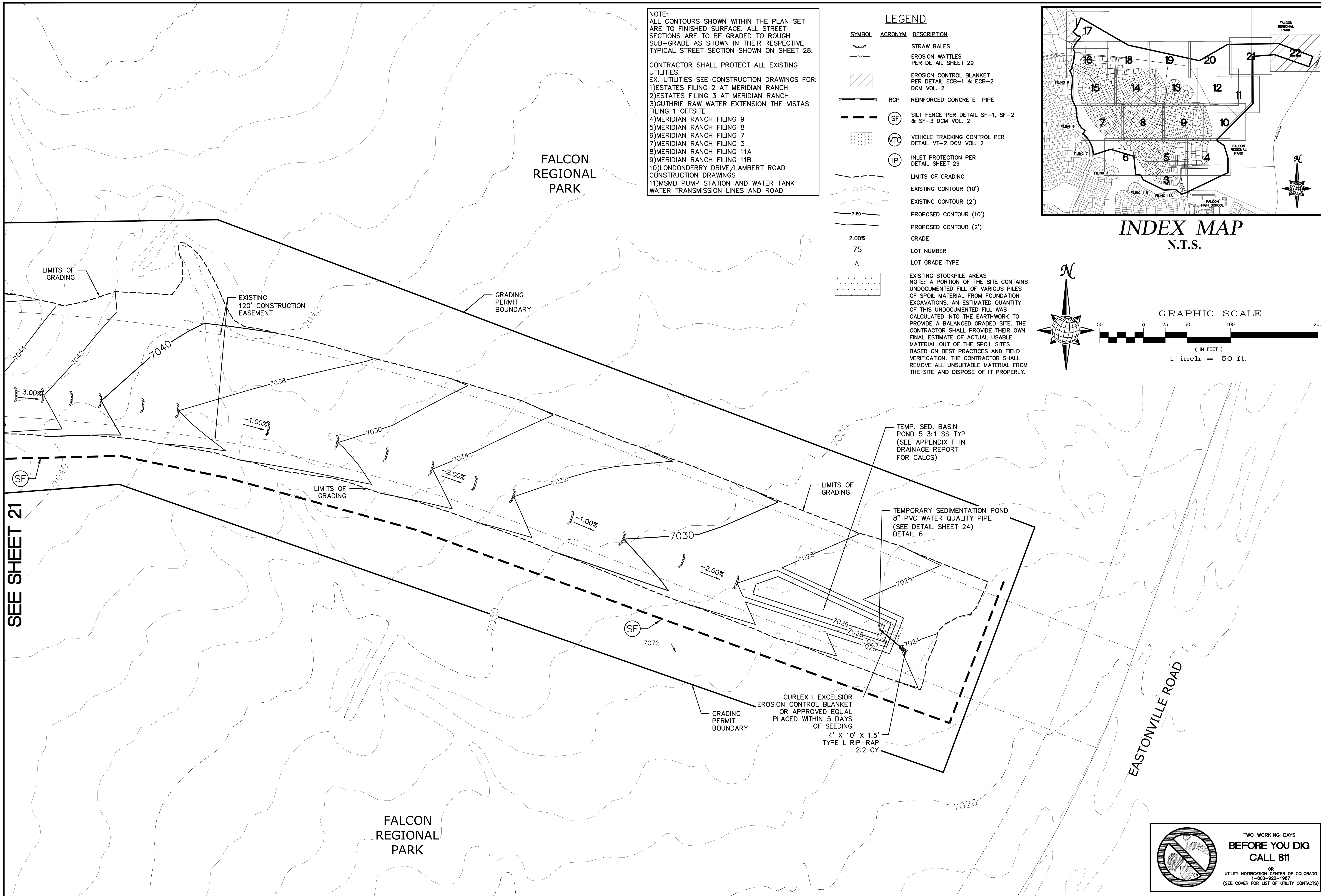
SEE SHEET 22

SEE SHEET 20

SEE SHEET 11



1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MARCH 2020
Scale	21 of 29			

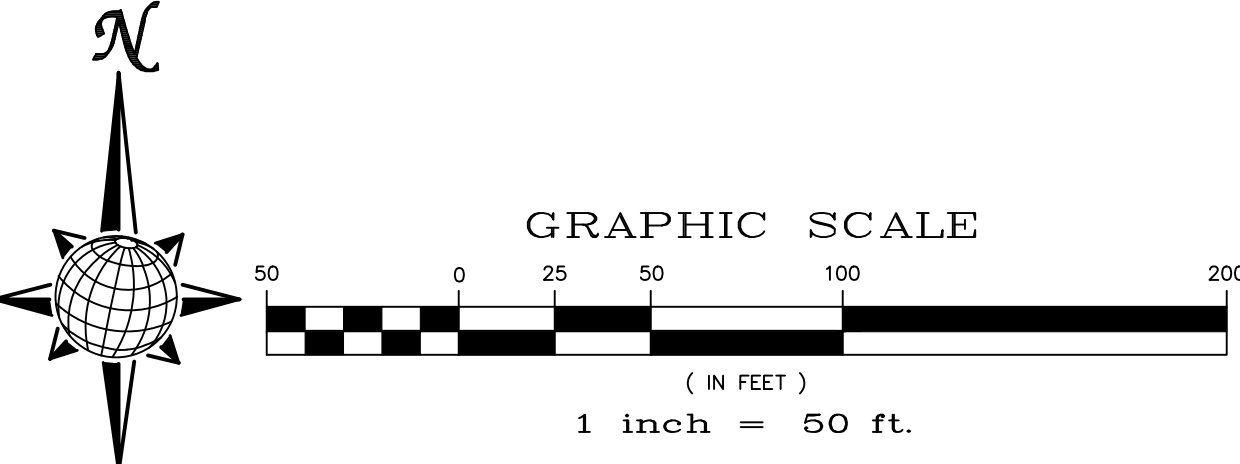
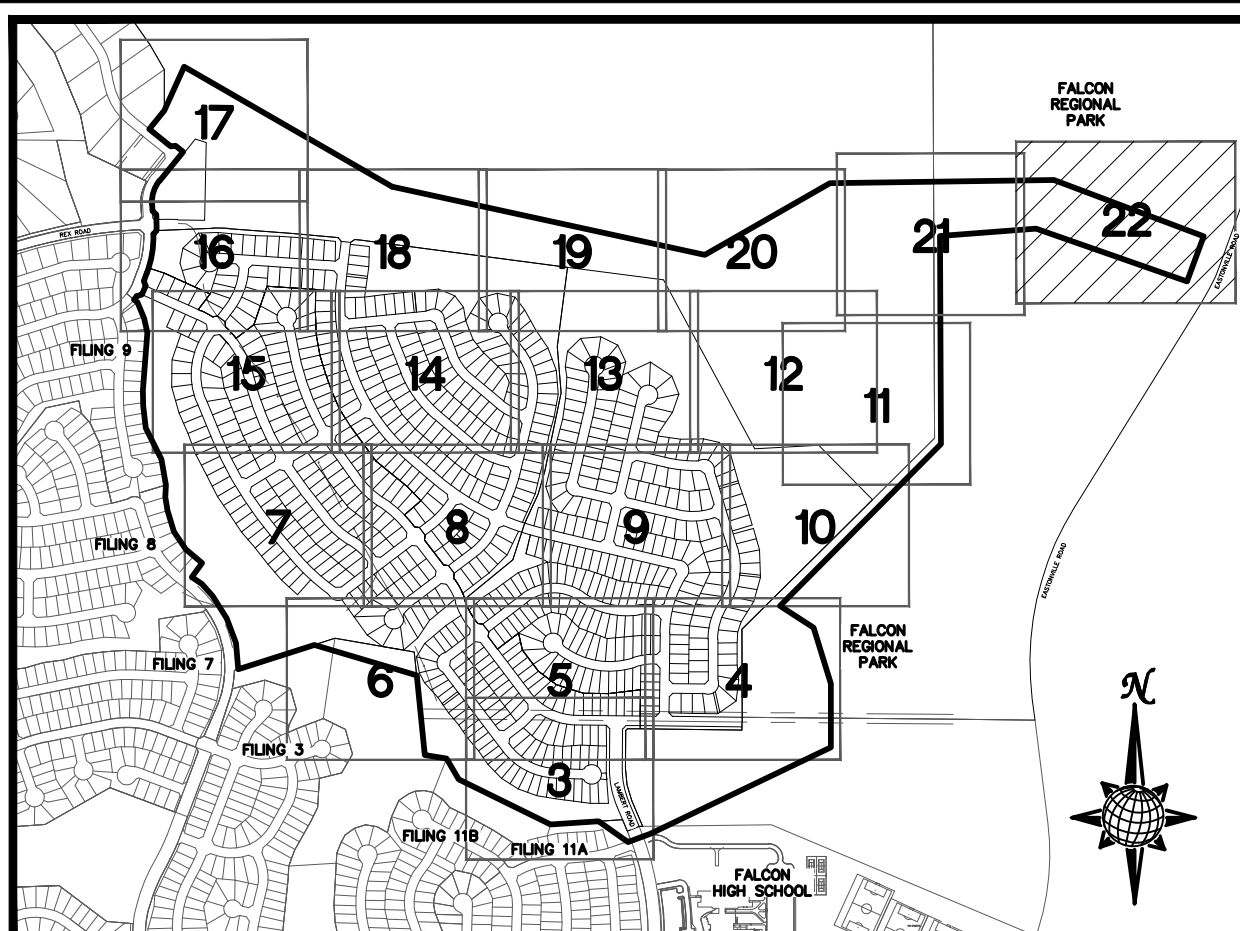


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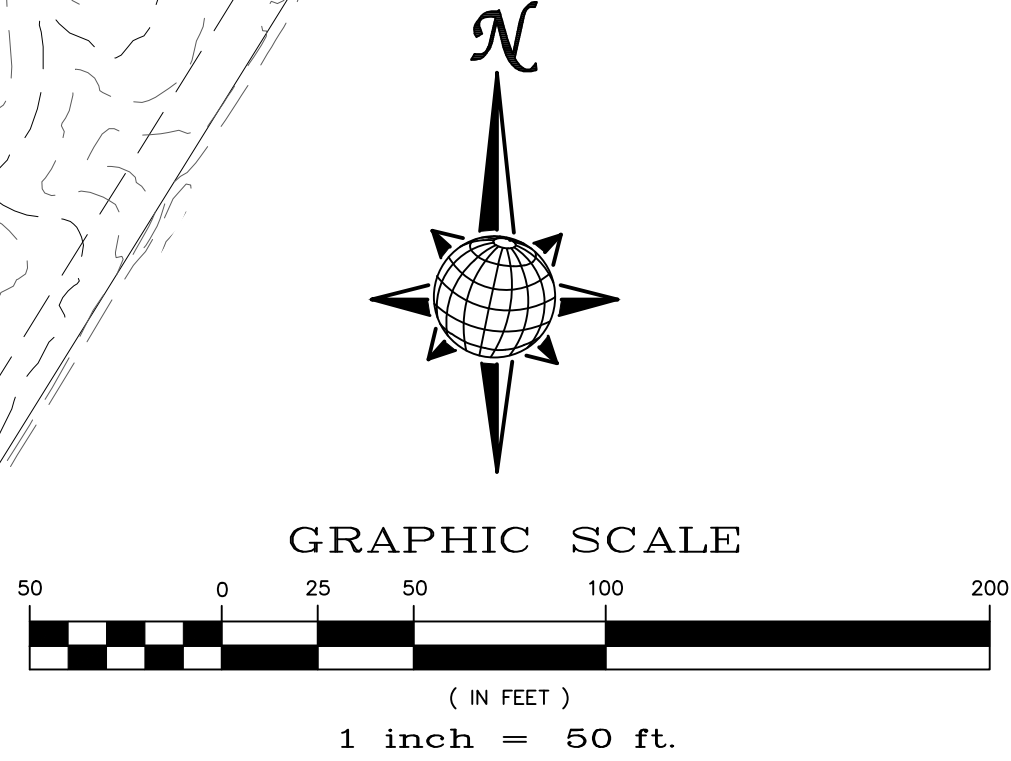


SEE SHEET 21



1		2		3		4		No.	
TECH CONTRACTORS		11886 STAPLETON DRIVE		FALCON, CO 80831		TELEPHONE: 719.495.7444		FAX: 719.495.2457	
		ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN CONTROL PLAN SHEET							
		Drawn by	LOG	Checked by	TAK	Date	MARCH 2020		
Scale	AS SHOWN		22 of 29						
		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)							




**TWO WORKING DAYS
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 OR
 UTILITY NOTIFICATION CENTER OF COLORADO
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 (SEE COVER FOR LIST OF UTILITY CONTACTS)




LEGEND:

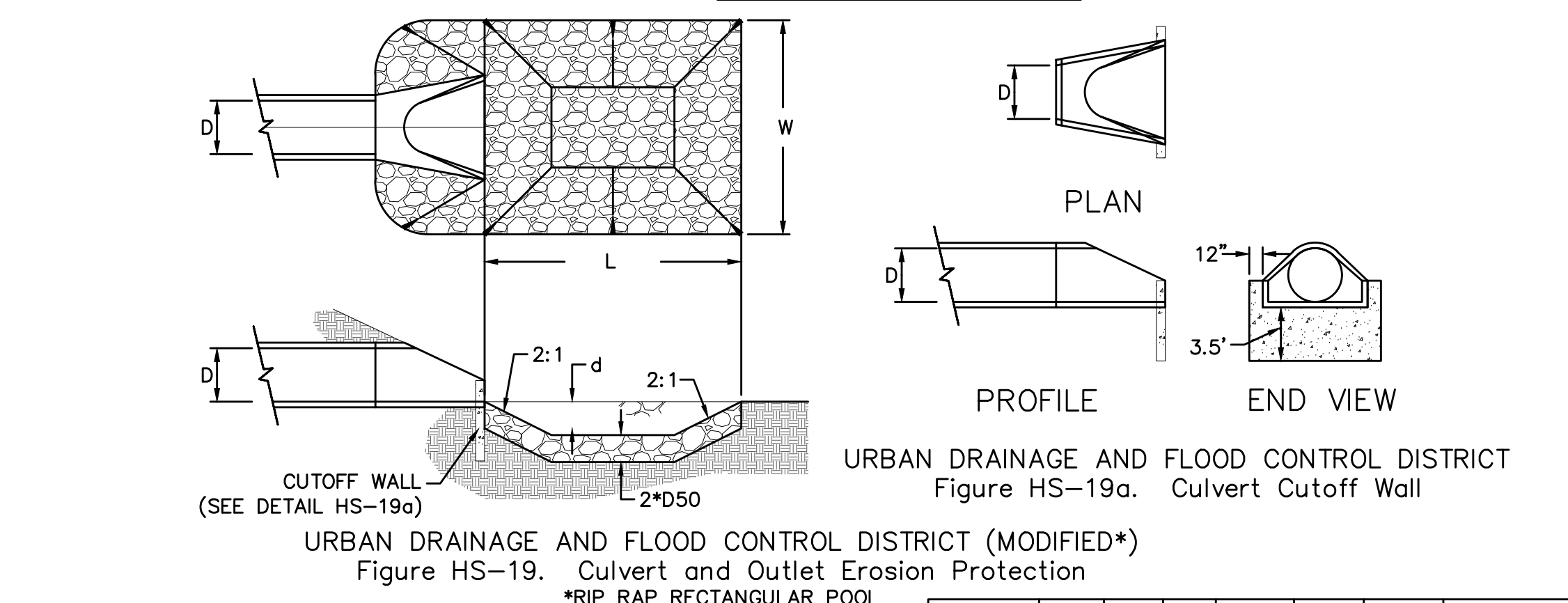
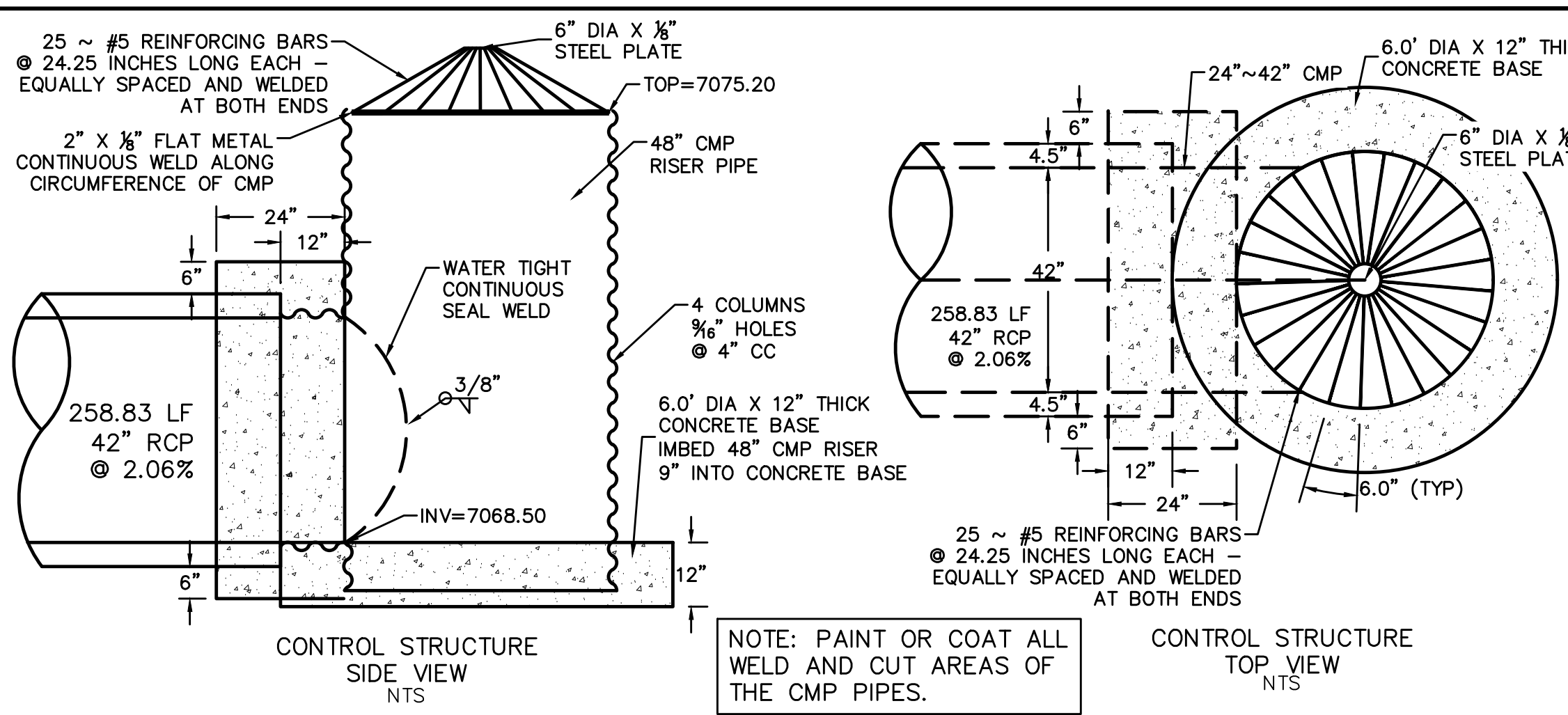
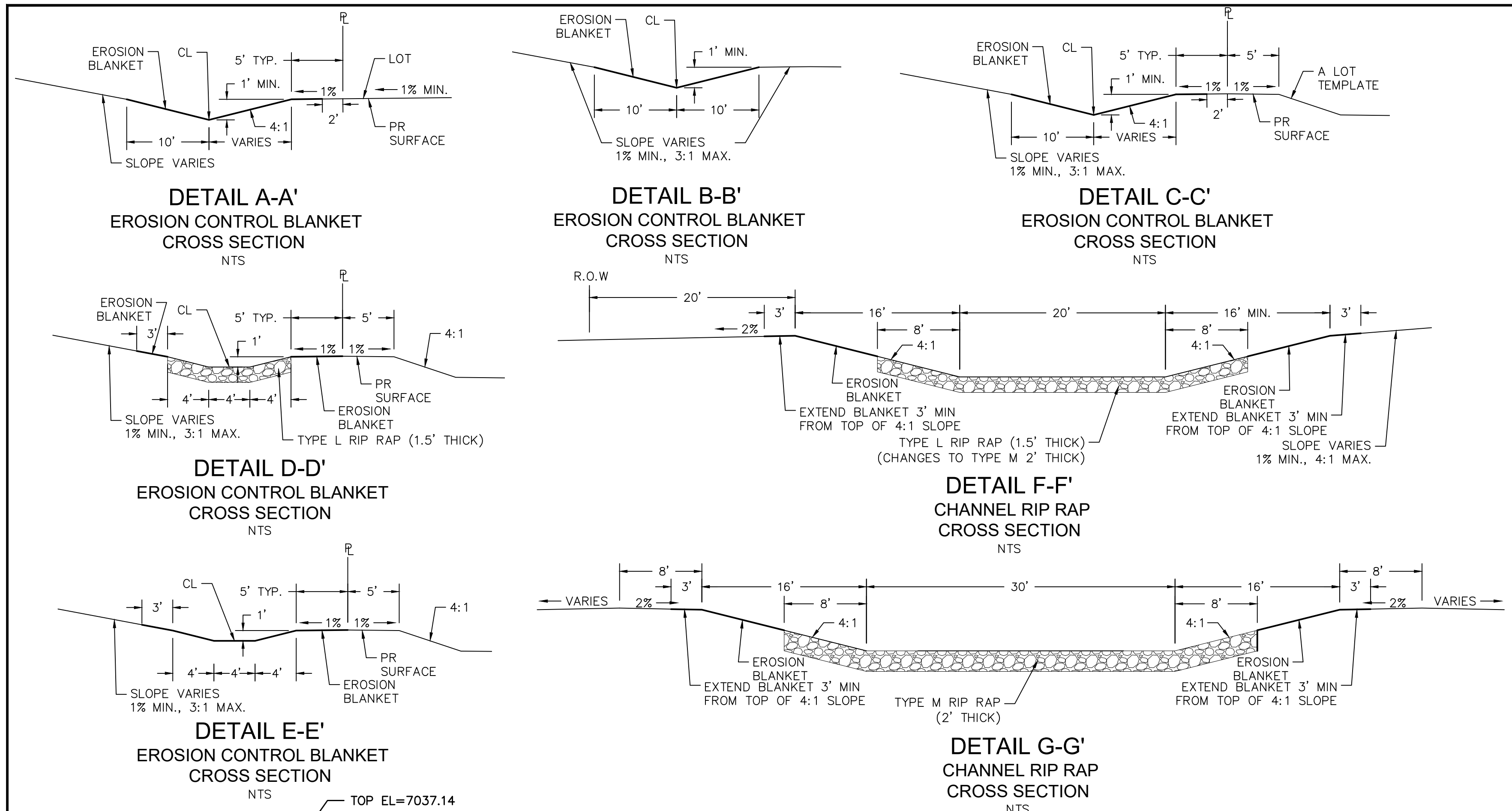
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- AREAS OF FILL 

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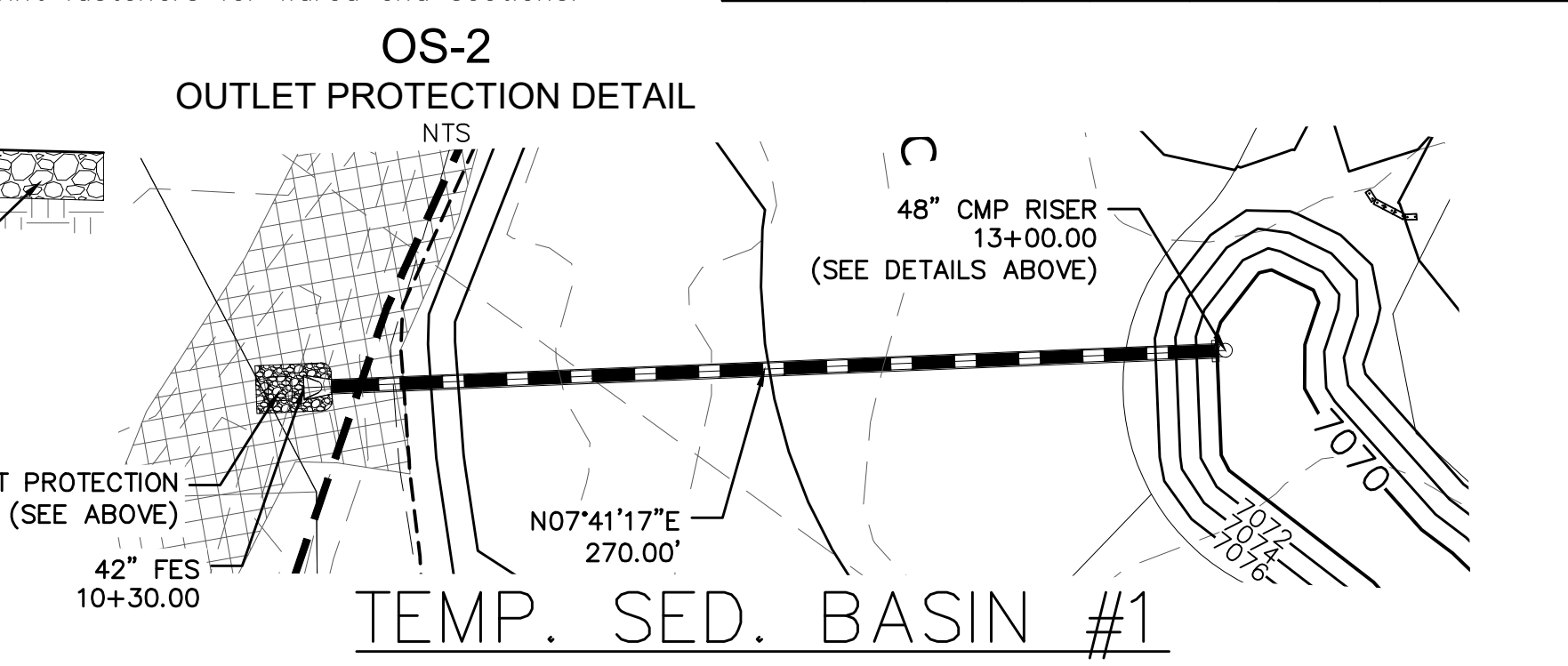
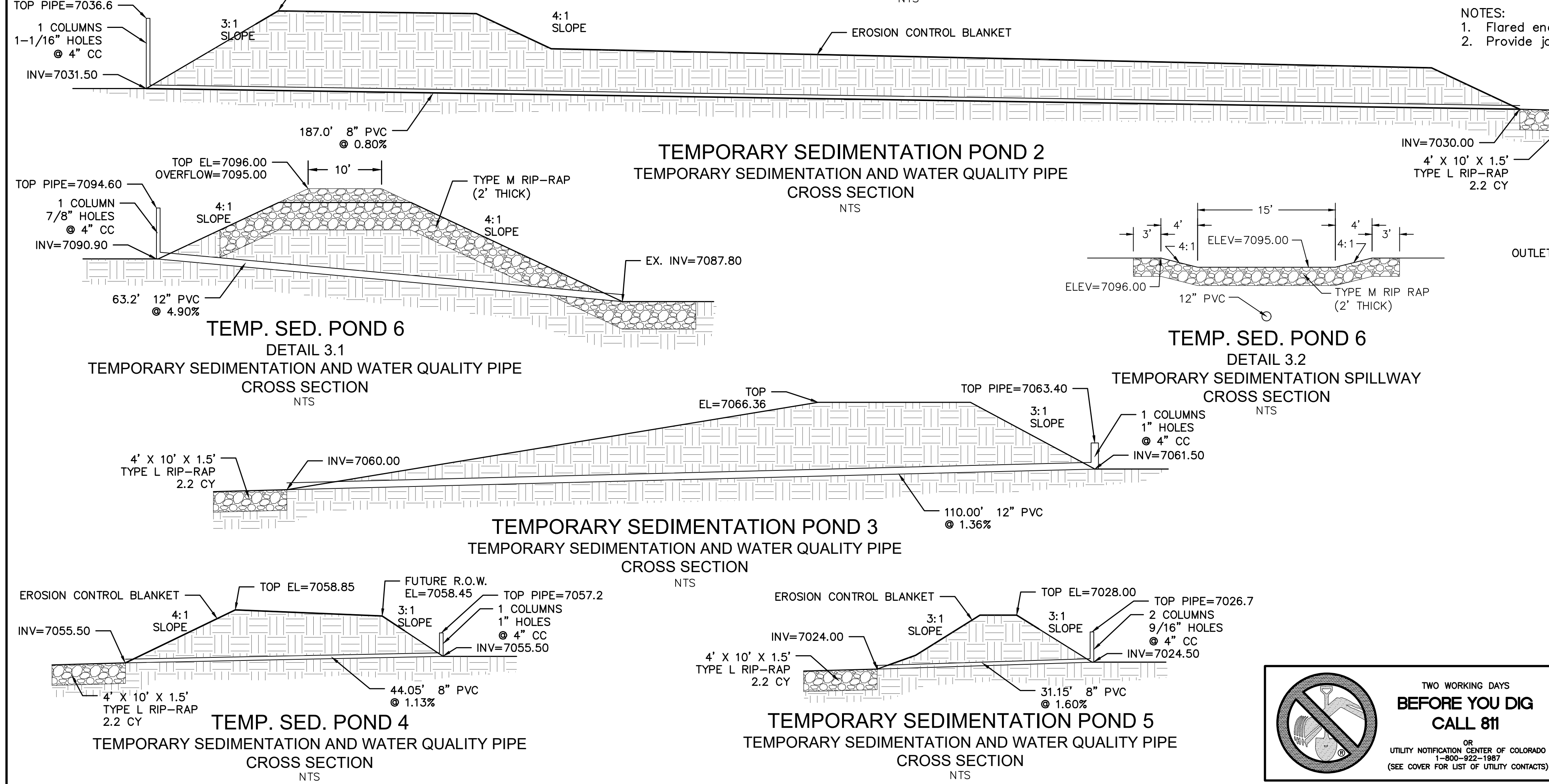
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TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1					
	2					
	3					
	4					
	No.	Revisions	Date	Appr.	Date	
 MERIDIAN RANCH	ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN CUT-FILL SHEET					Drawn by LOG
						Checked by TMK
						Date MARCH 2020
Scale AS SHOWN	23 of 29					

S:\architect\rolling hills\rough grading\rolling hills rough grading.dwg, 1/24/2020 1:35:20 PM



PIPE OUTLET	L	W	d	TYPE	D ₉₀	CY	NOTES
OS-2 42"	14.0	14.0	1.75	M	1.00'	19.2	SEE BELOW



Scale: AS SHOWN

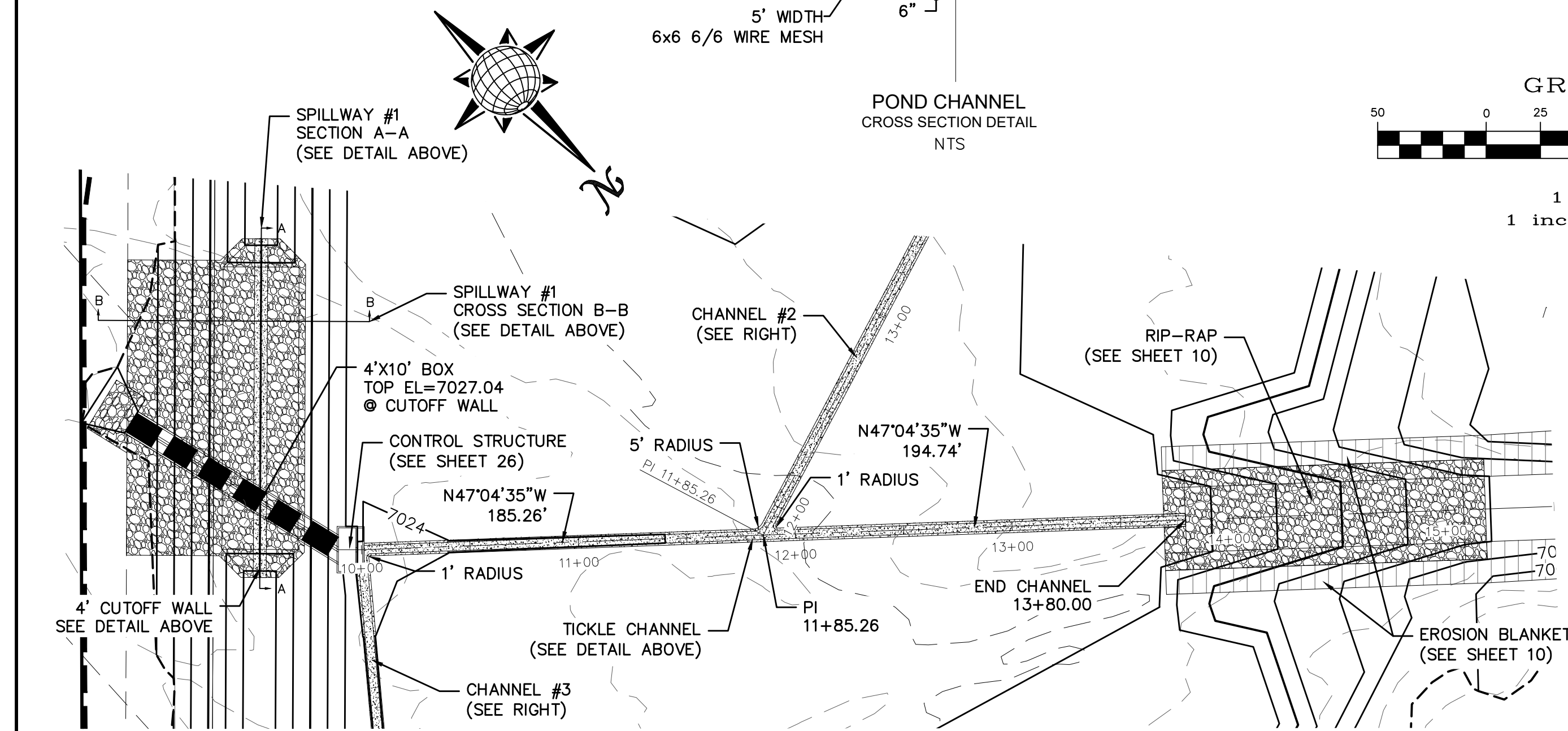
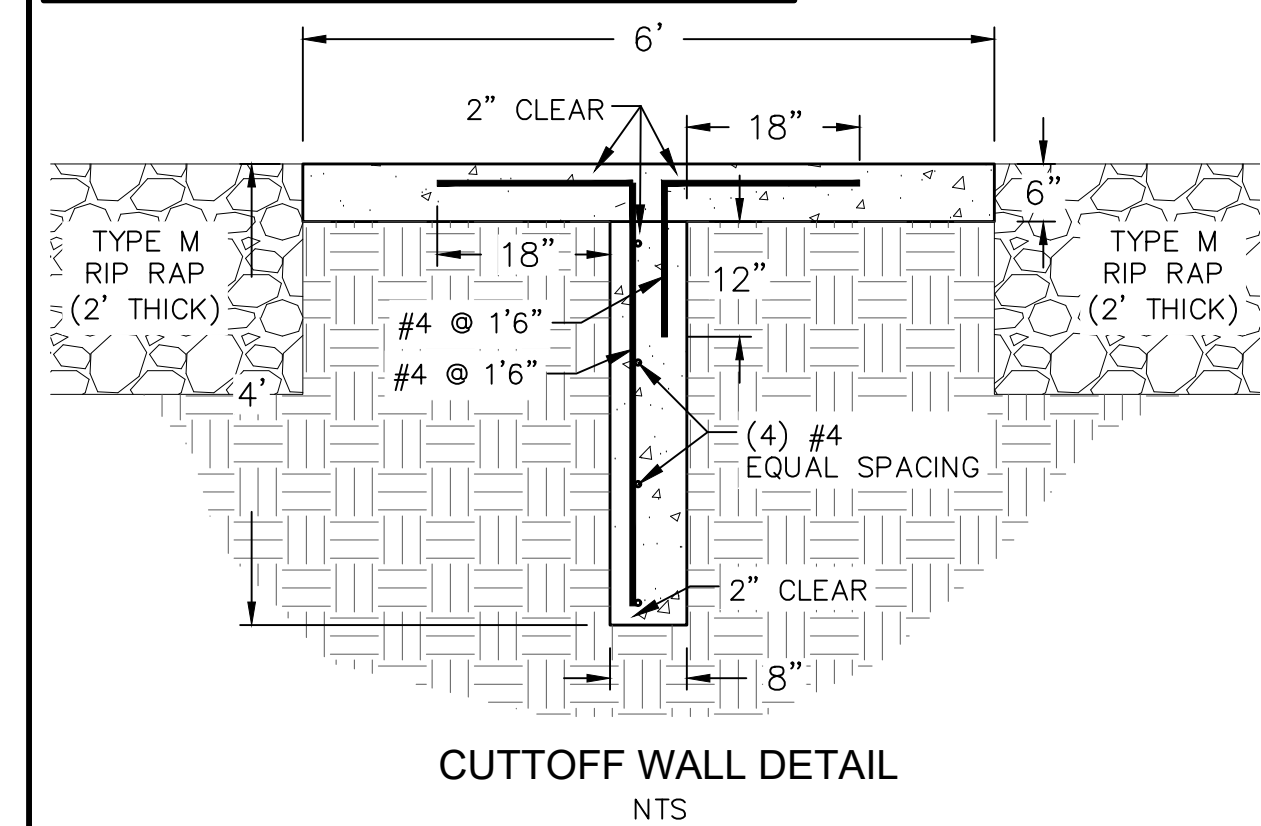
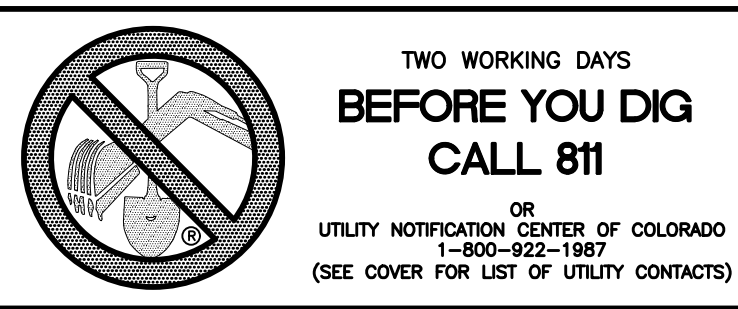
Q₅ = 30 CFS
Q₁₀₀ = 85 CFS

Time	Flow Rate (CFS)
10+00	30
11+00	30
12+00	85

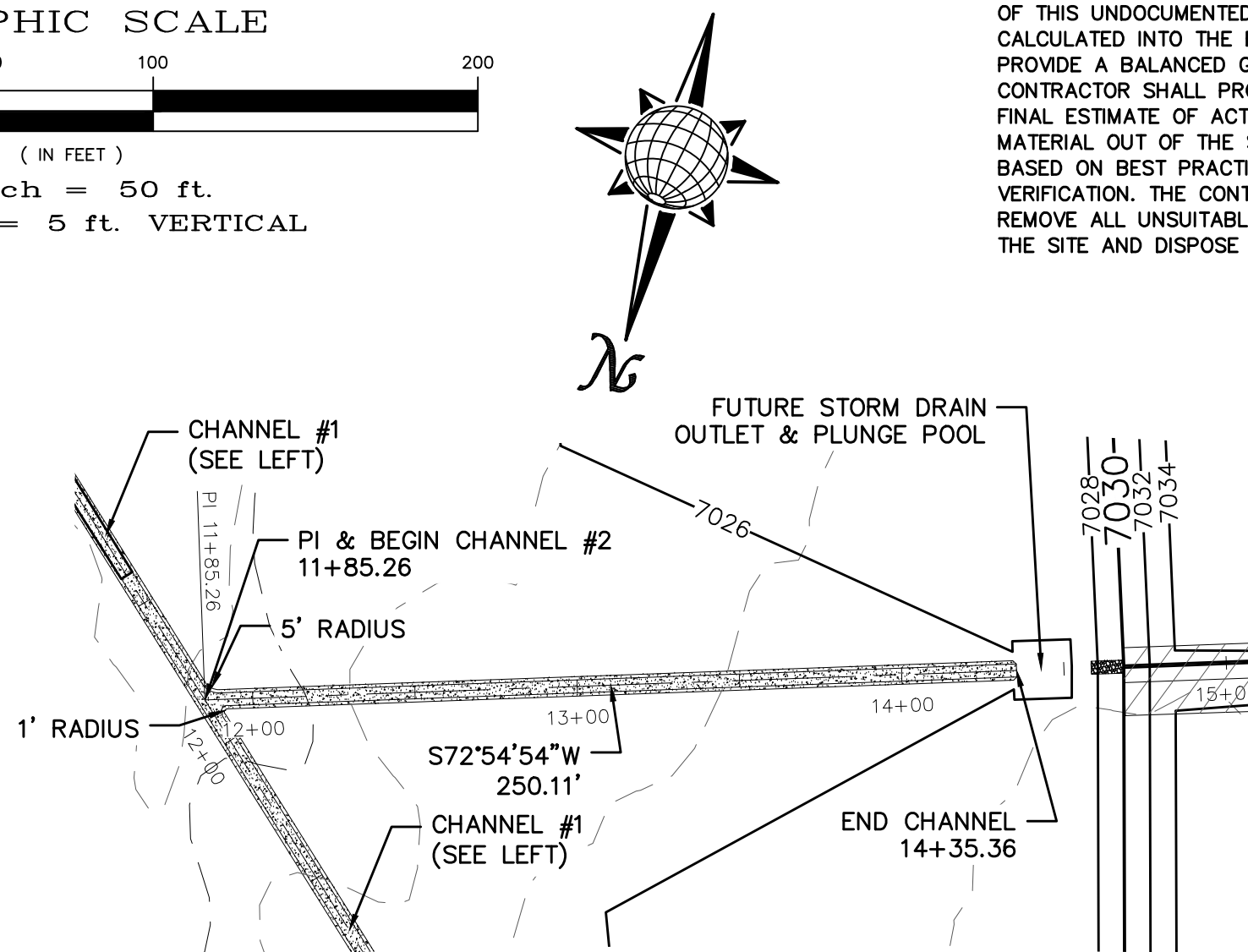
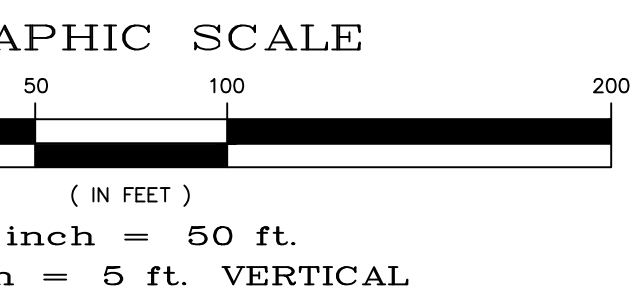
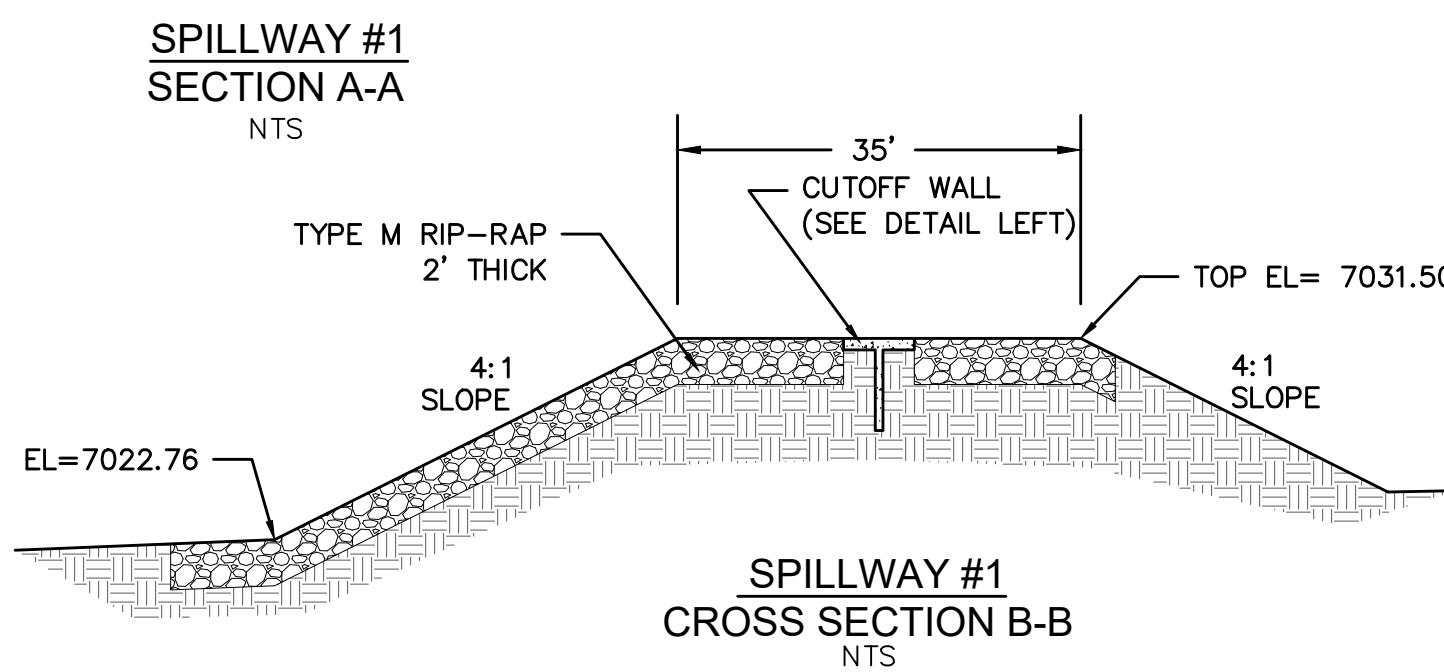
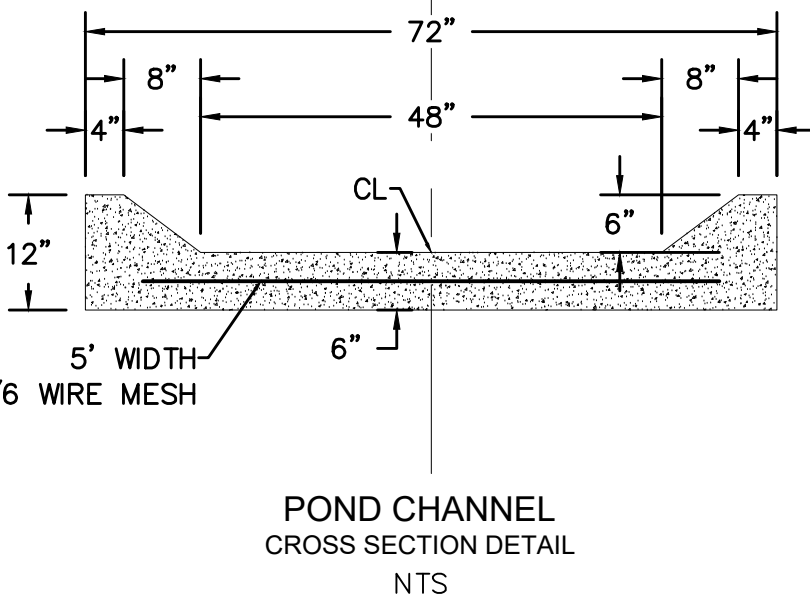
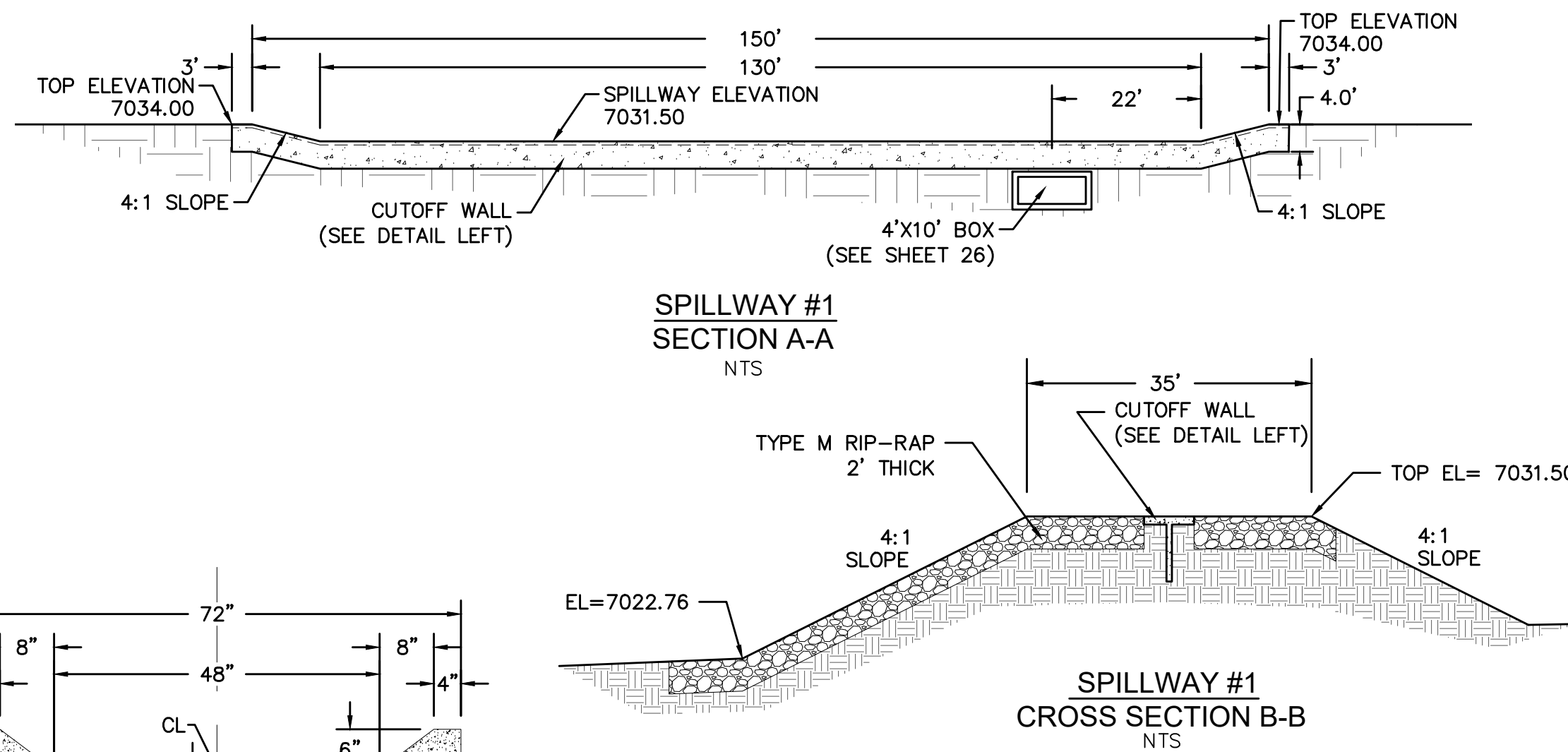
Date	Appr.	
Date	Revis	
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2		
3		
4		
TECH CONTRACTORS		
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FALCON, CO 80831		
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FAX:	719.495.2457	
MERIDIAN RANCH		
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN DETAIL SHEET		
Drawn by	Checked by	Date
LOG	TAK	MARCH 2020
Scale: AS SHOWN		24 of 29



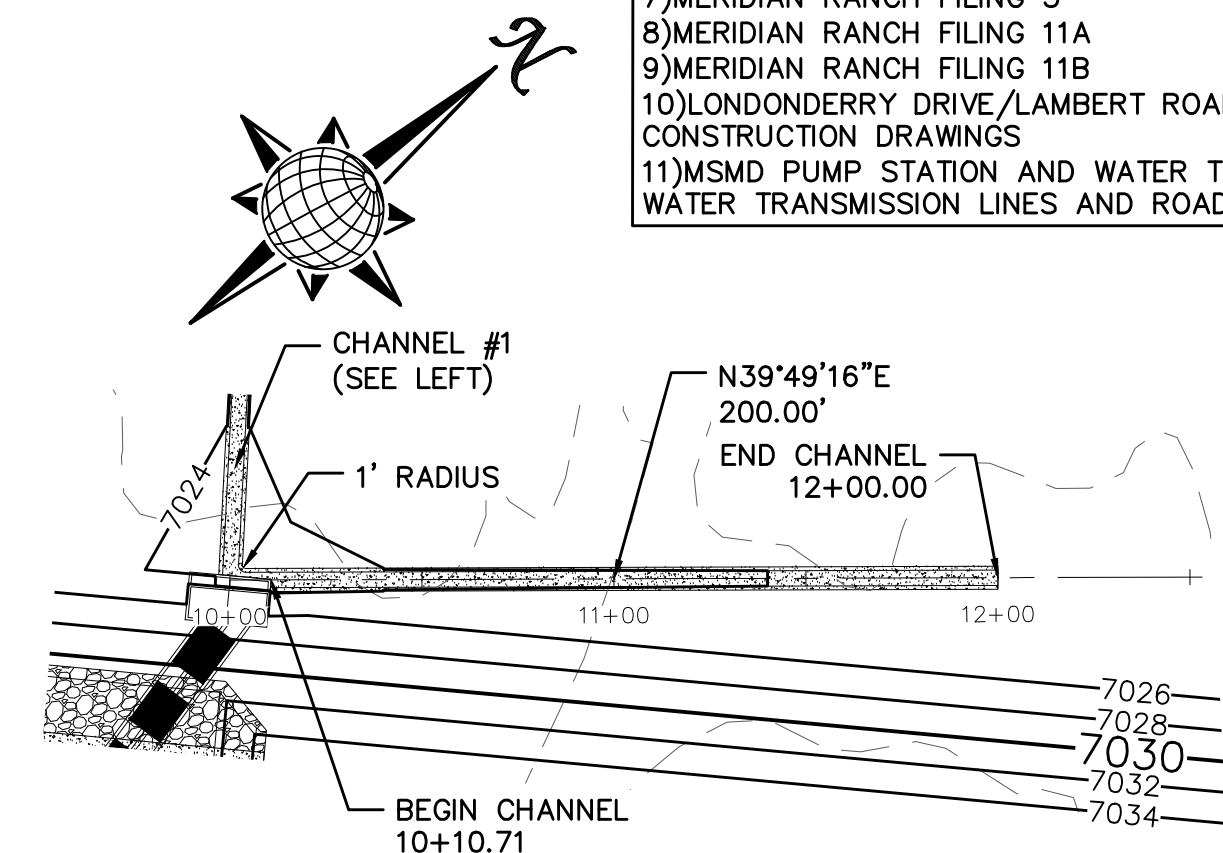
S:\nchubee\chubee\rolling hills\rough grading\rough grading.dwg, 3/24/2020 12:13:13 PM



POND CHANNEL #1



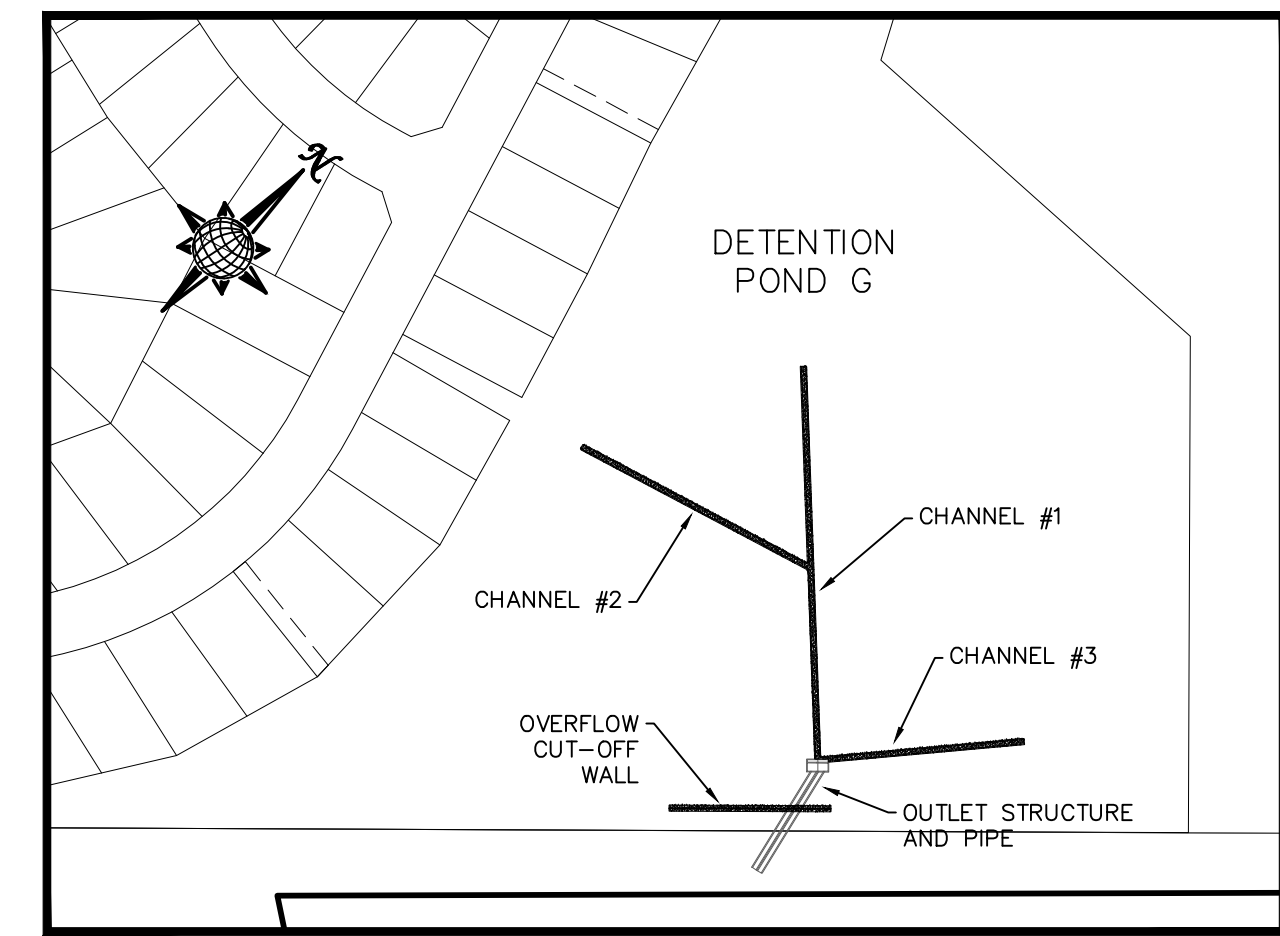
POND CHANNEL #2



POND CHANNEL #3

LEGEND

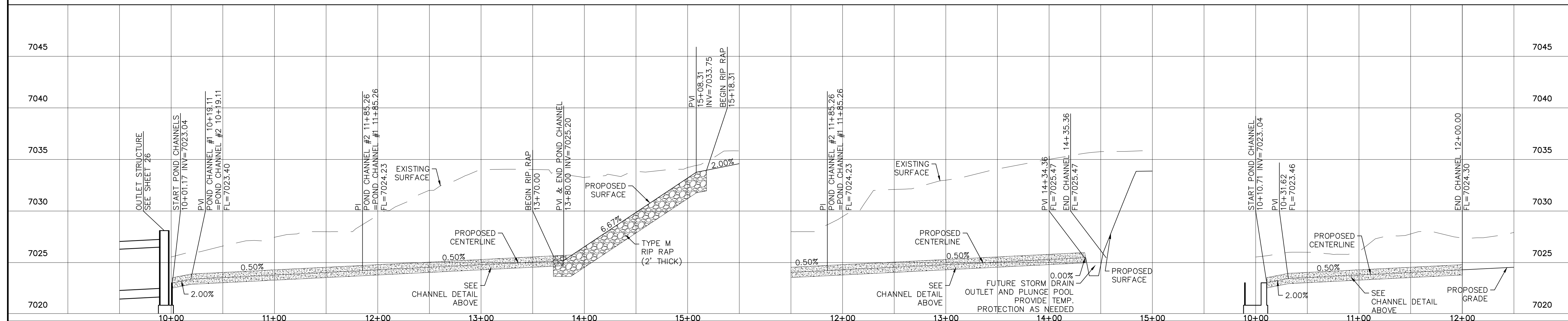
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.



INDEX MAP N.T.S.

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 28.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
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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

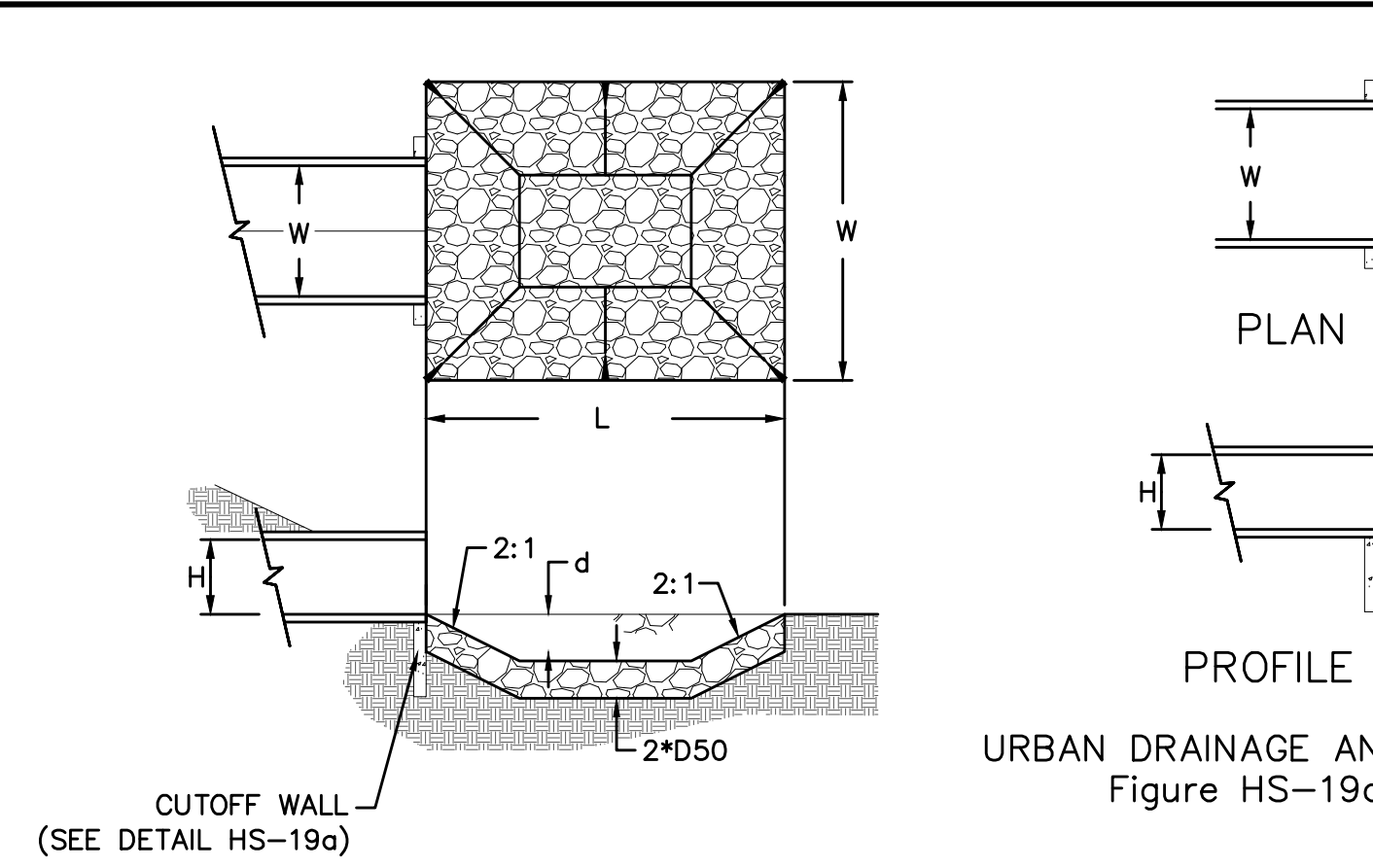


Drawn by	Log	Checked by	Date
AS SHOWN		TAK	25 of 29
Scale			
MARCH 2020			

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING/EROSION CONTROL PLAN
DETAIL SHEET

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

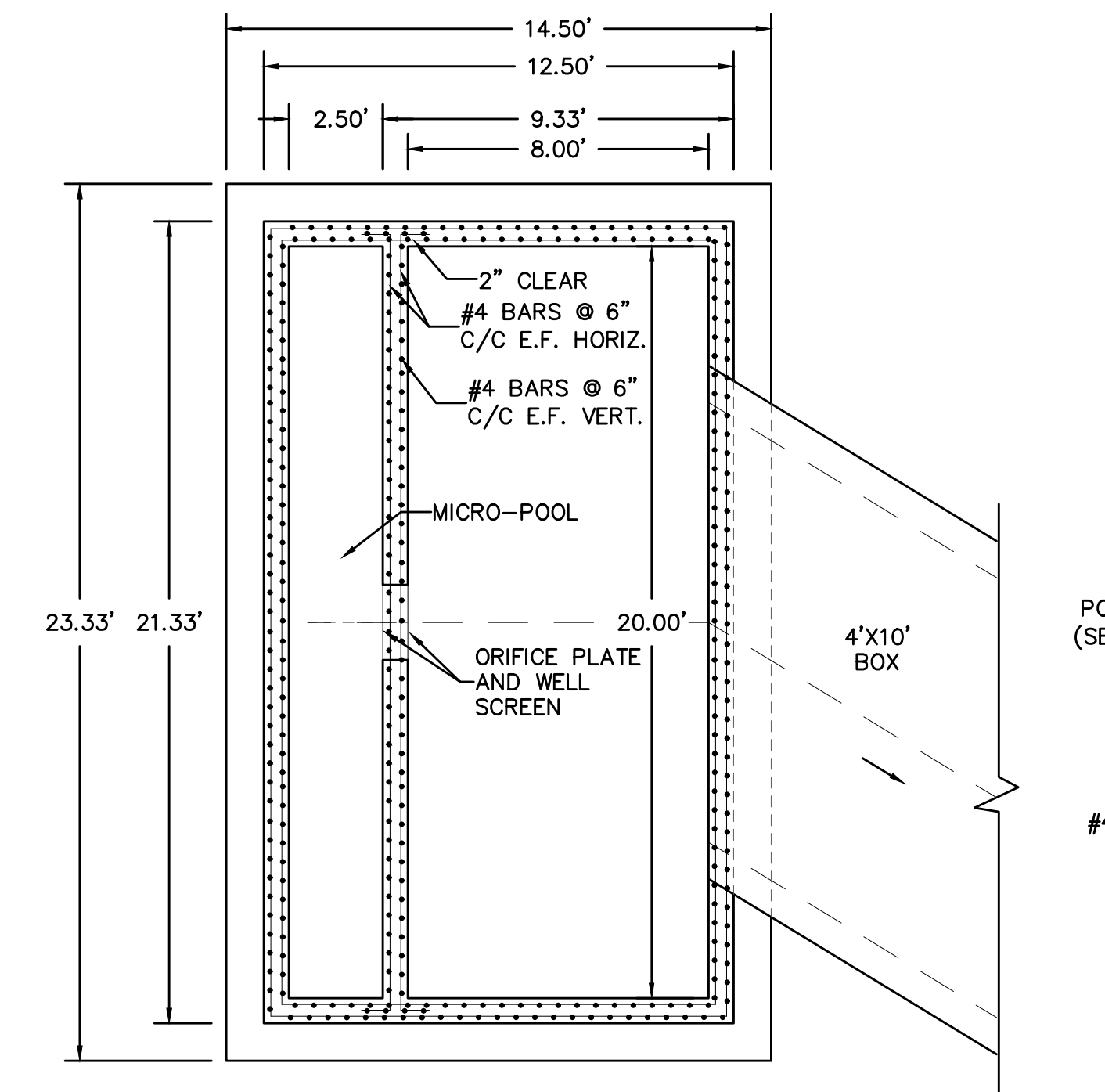
Meridian Ranch logo and name.



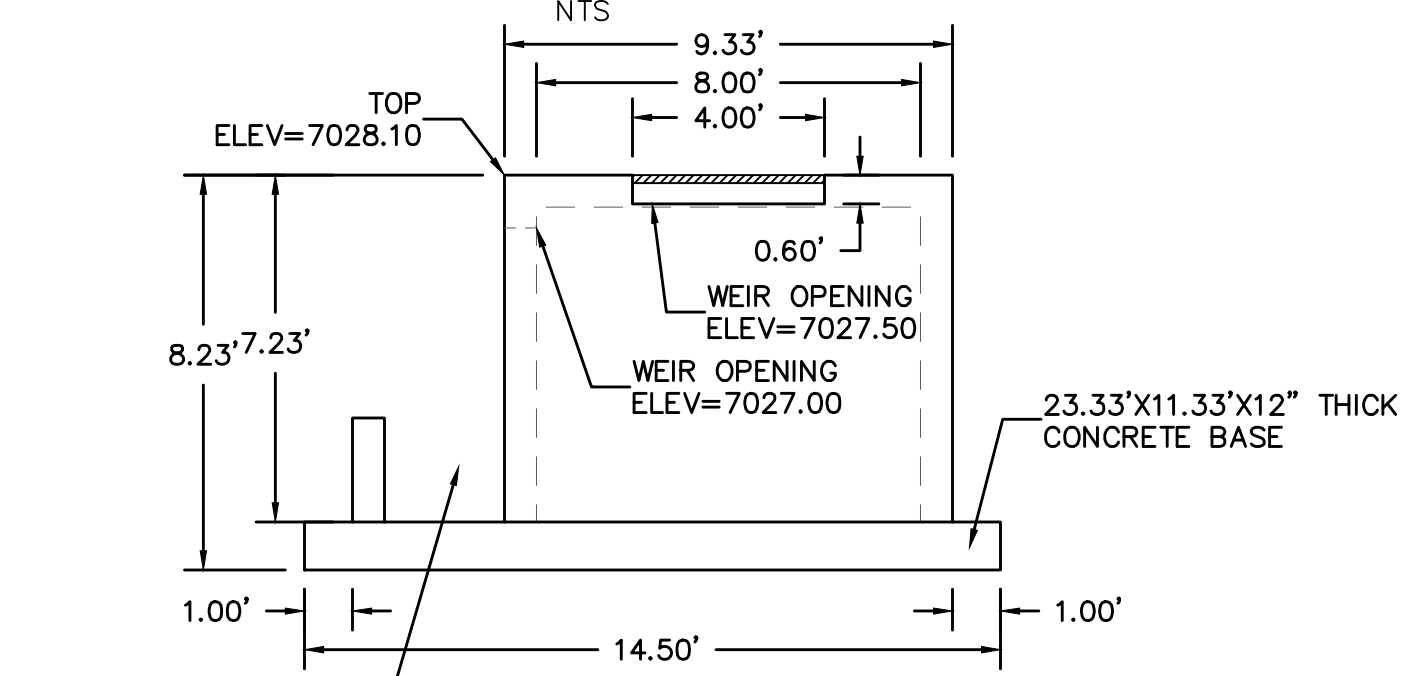
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED*)
Figure HS-19. Culvert and Outlet Erosion Protection
*RIP RAP RECTANGULAR POOL

POND G
OUTLET PROTECTION DETAIL
NTS

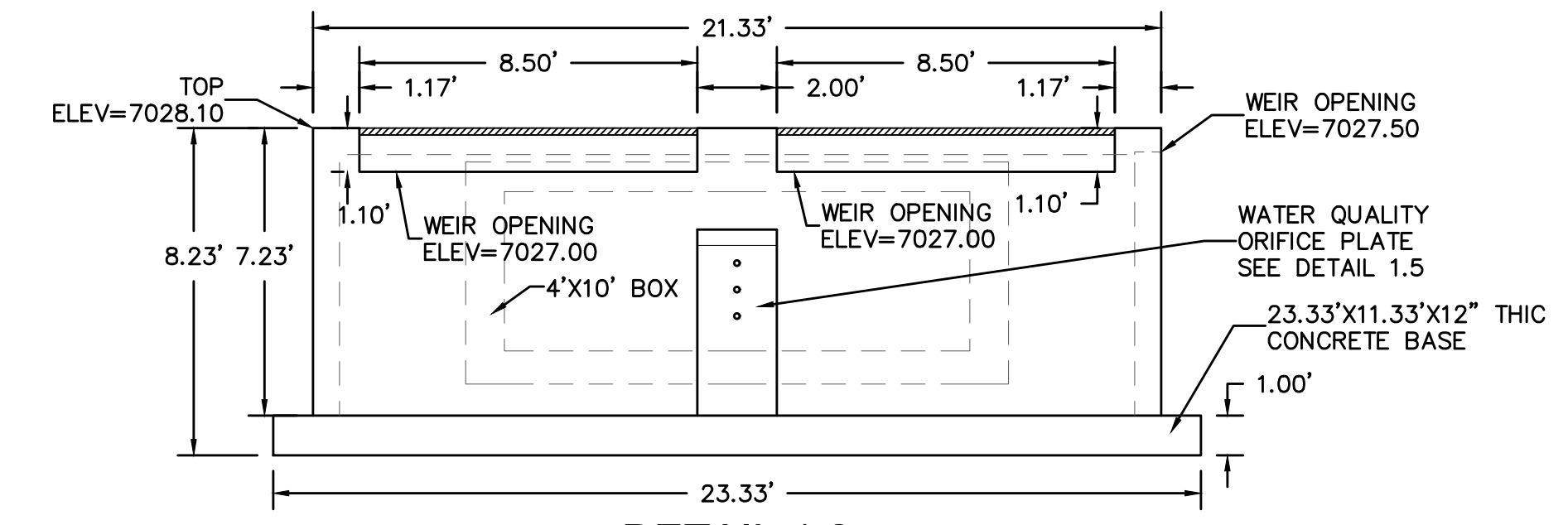
PIPE OUTLET	L	W	d	TYPE	D ₉₀	CY	NOTES
POND G 4'x10' BOX	16.0	26.0	2.0	M	1.00'	33.0	SEE BELOW



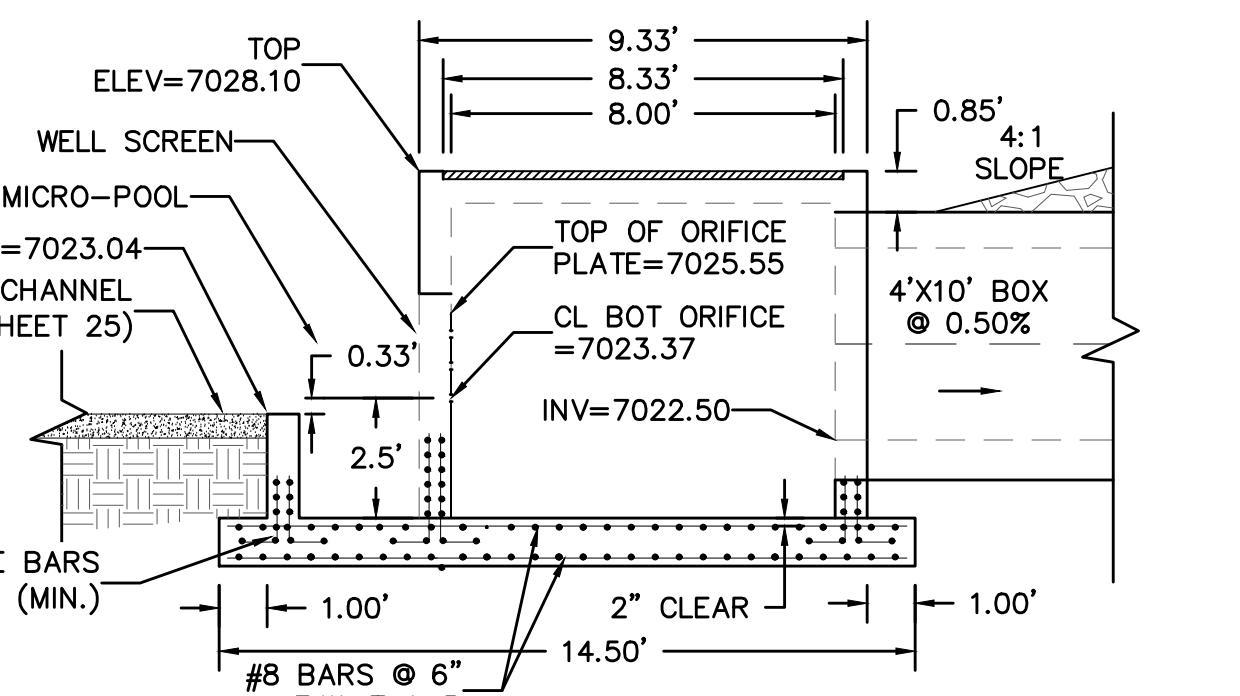
DETAIL 1.1
OUTLET STRUCTURE
PLAN VIEW
NTS



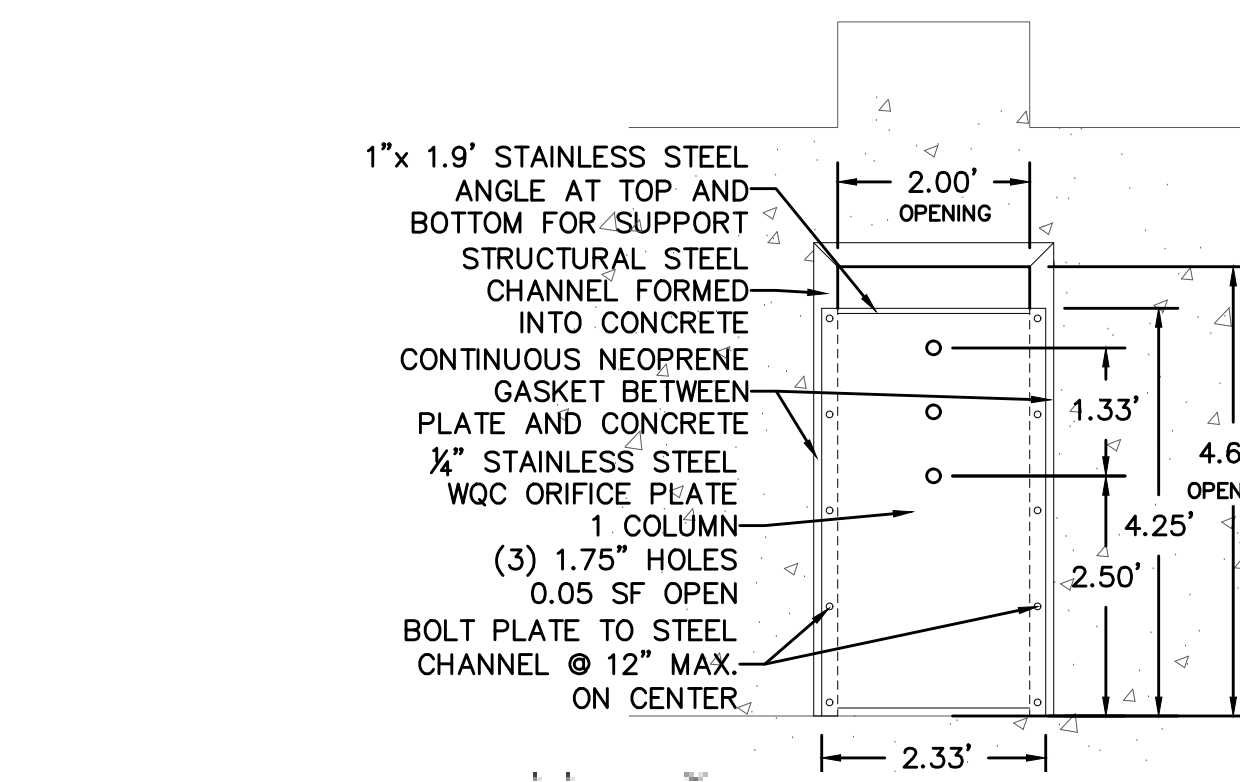
DETAIL 1.3
OUTLET STRUCTURE
SIDE VIEW
NTS



DETAIL 1.2
OUTLET STRUCTURE
FRONT VIEW
NTS



DETAIL 1.4
OUTLET STRUCTURE
CROSS SECTION
NTS



DETAIL 1.5
OUTLET STRUCTURE
CROSS SECTION
NTS

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)

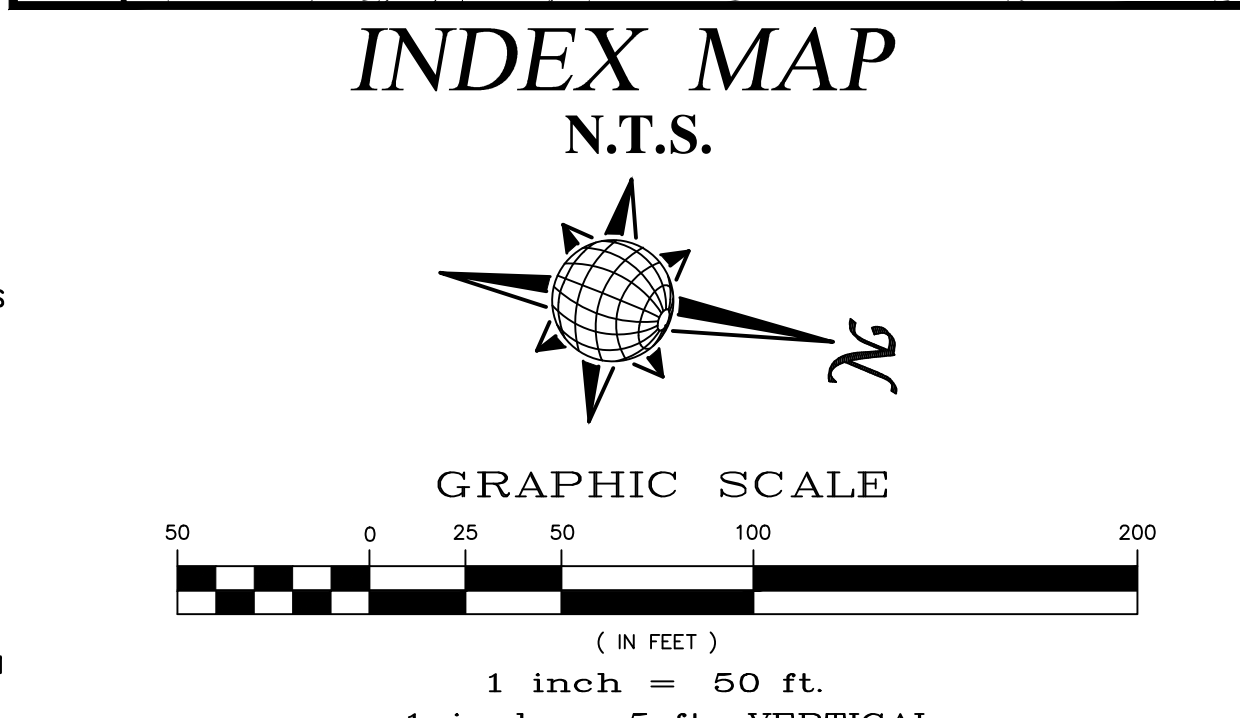
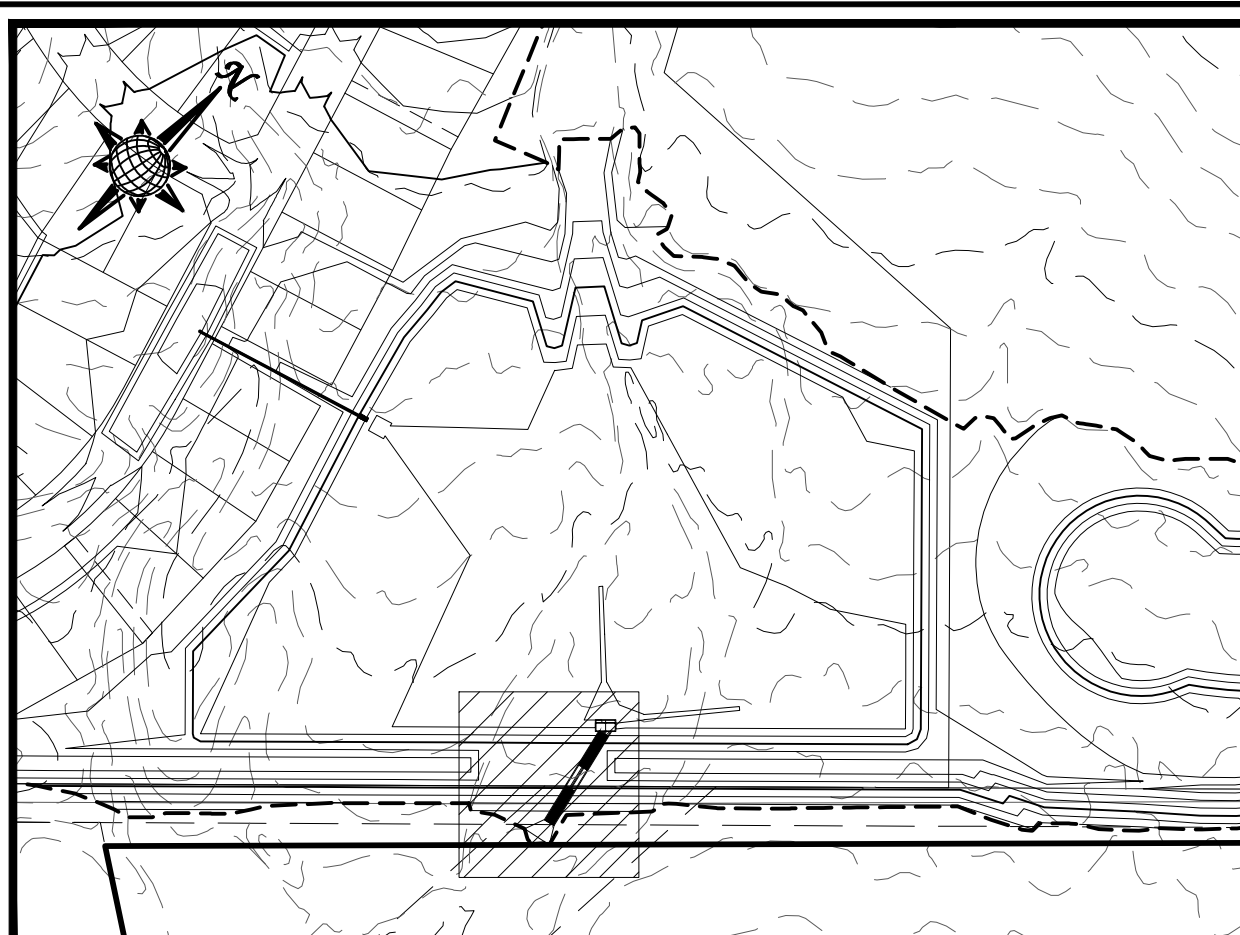
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11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

LEGEND

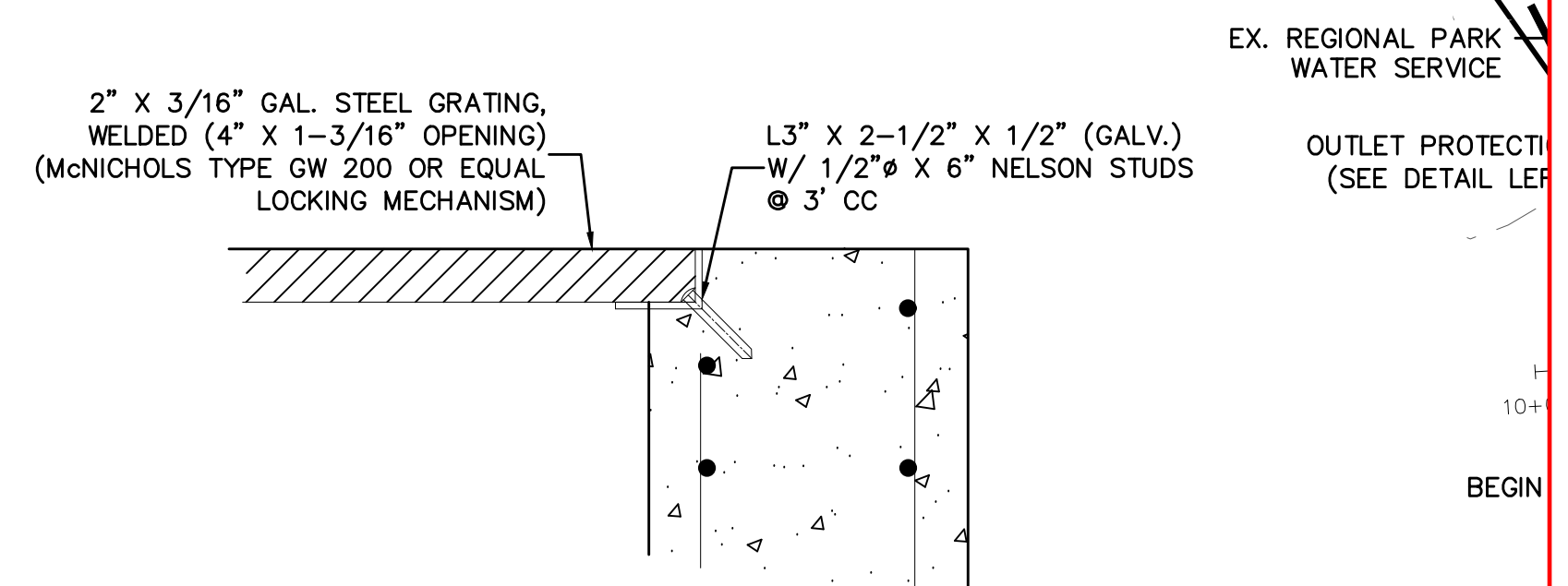
SYMBOL	ACRONYM	DESCRIPTION
[Symbol]		STRAW BALES
[Symbol]		EROSION DETAILLES PER DETAIL SHEET 29
[Symbol]		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
[Symbol]	RCP	REINFORCED CONCRETE PIPE
[Symbol]	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
[Symbol]	VT-C	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
[Symbol]	IP	INLET PROTECTION PER DETAIL SHEET 29
[Symbol]		LIMITS OF GRADING
[Symbol]		EXISTING CONTOUR (10')
[Symbol]		EXISTING CONTOUR (2')
[Symbol]		PROPOSED CONTOUR (10')
[Symbol]		PROPOSED CONTOUR (2')
[Symbol]		GRADE
[Symbol]		LOT NUMBER
[Symbol]		LOT GRADE TYPE
[Symbol]		EXISTING STOCKPILE AREAS

NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

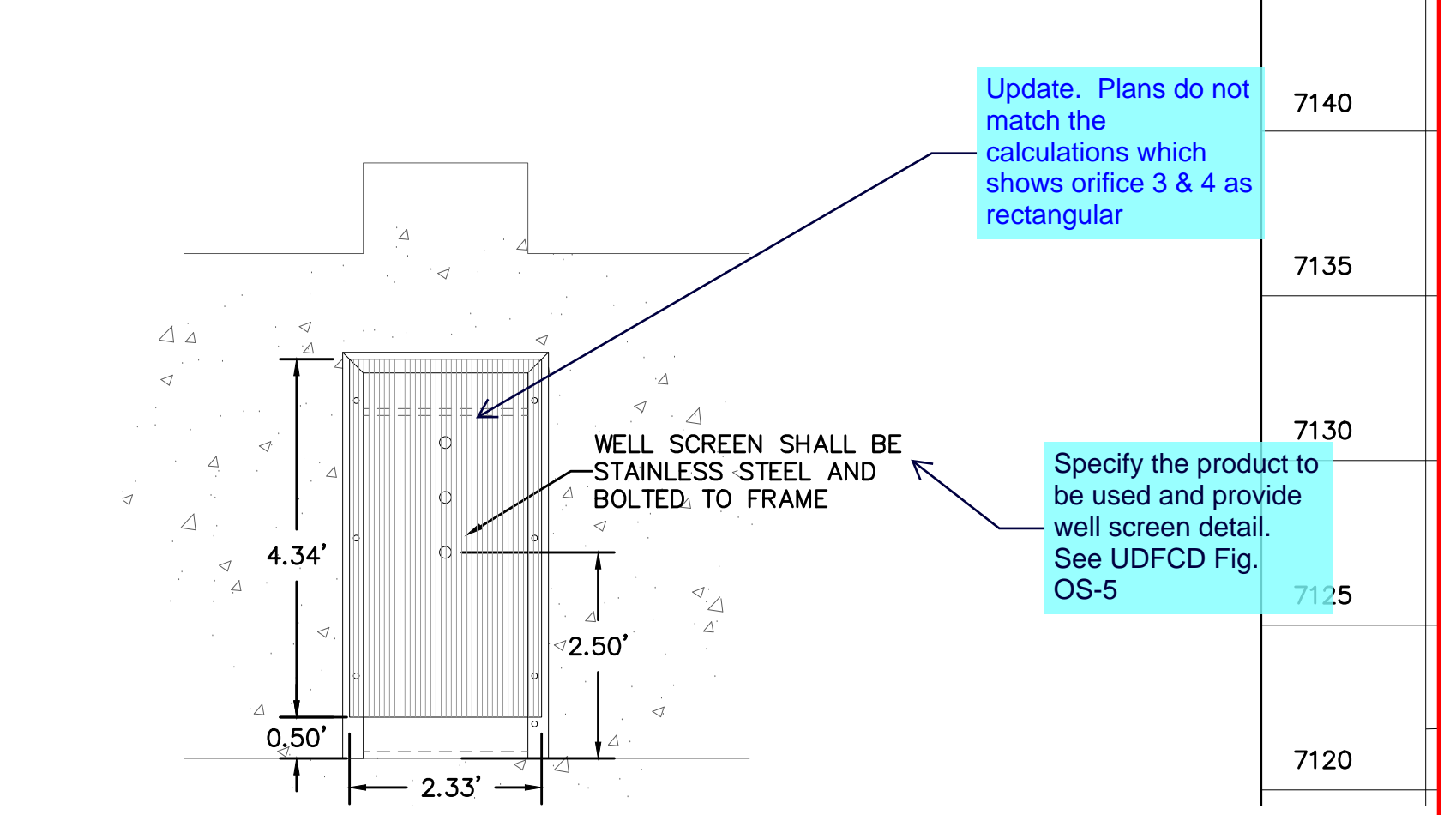


No.	Revisions	Date	Appr.
1			
2			
3			
4			

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719.495.2457



DETAIL 1.6
GRATE
NTS



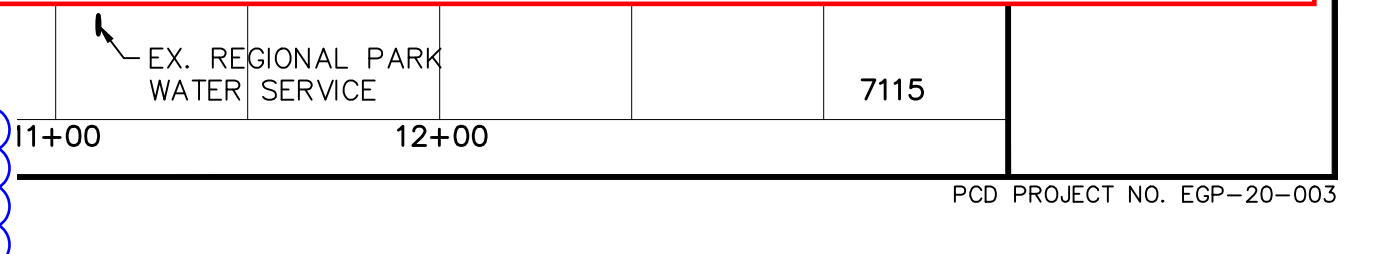
DETAIL 1.5
OUTLET STRUCTURE
CROSS SECTION
NTS

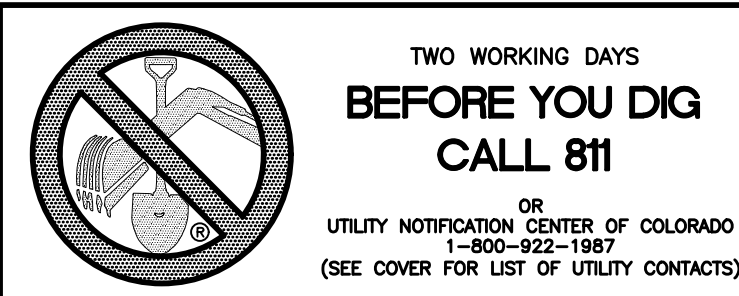
Outlet Structures T-12

Figure OS-5. Typical outlet structure with well screen trash rack

November 2015 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 OS-9

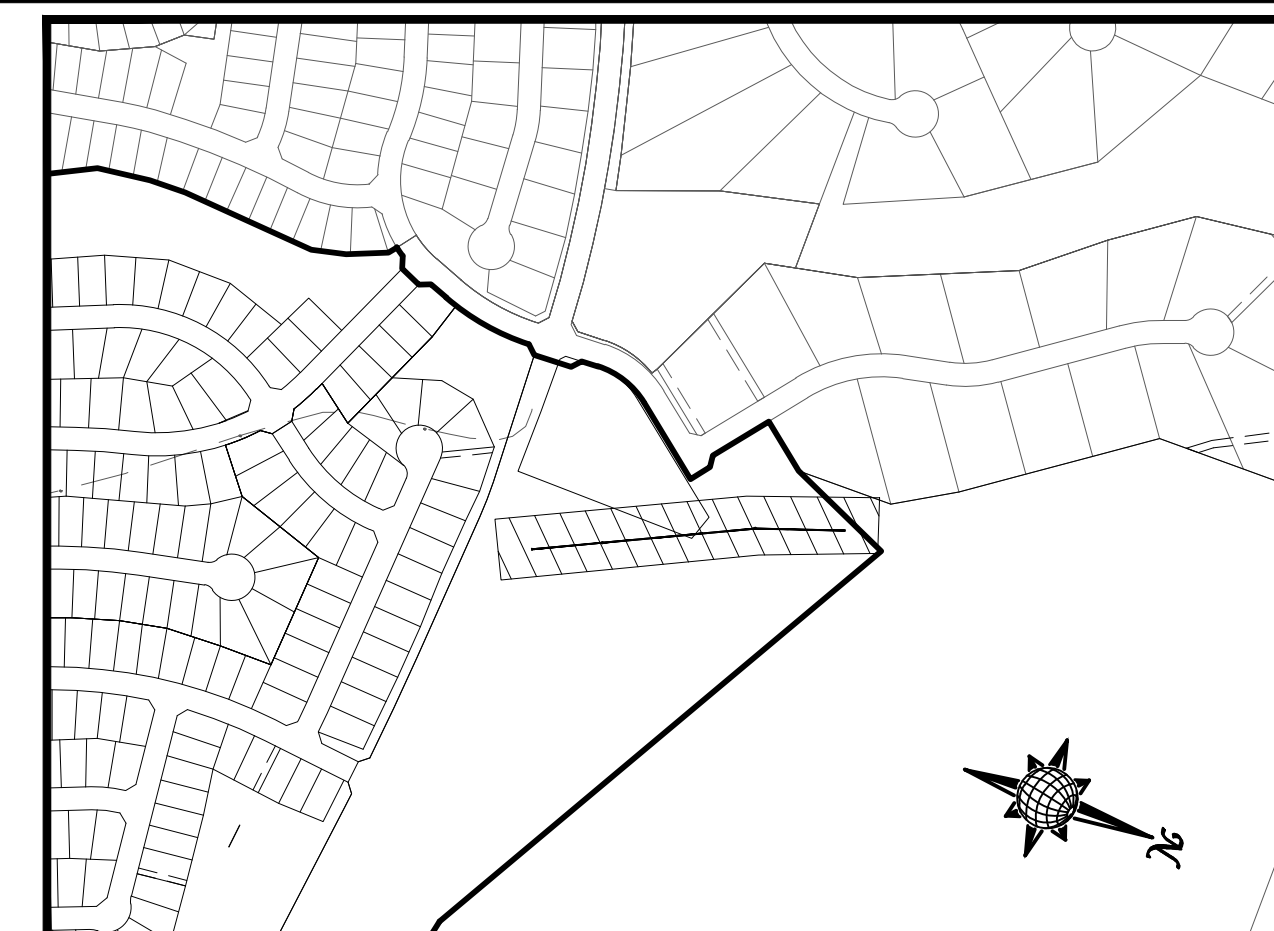
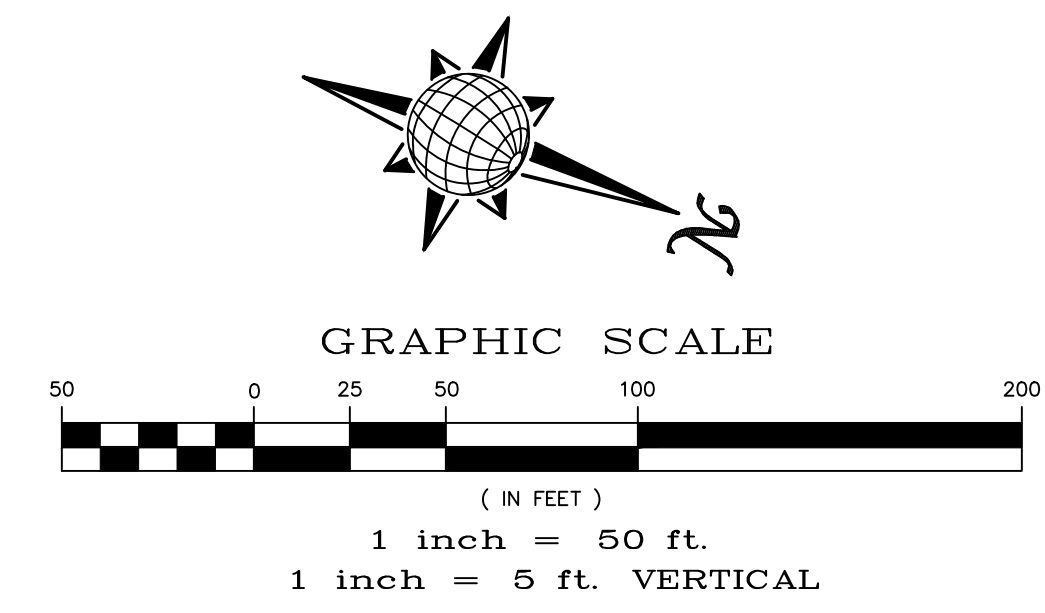
Type	Orifice	H or V	Width (ft.) X Height (ft.)	Dia. (in)	Area (sqft)	Elev to cl =
Circular	Orifice 1:	V	3	3	Area = 0.049	7023.43
Rectangular	Orifice 2:	V	8.5	1.1	Area = 9.350	7027.33
Rectangular	Orifice 3:	V	2	0.43	Area = 0.860	7025.34
Rectangular	Orifice 4:	V	4	0.6	Area = 2.400	7027.80
Rectangular	Orifice 5:	V	8.5	1.1	Area = 9.350	7017.65





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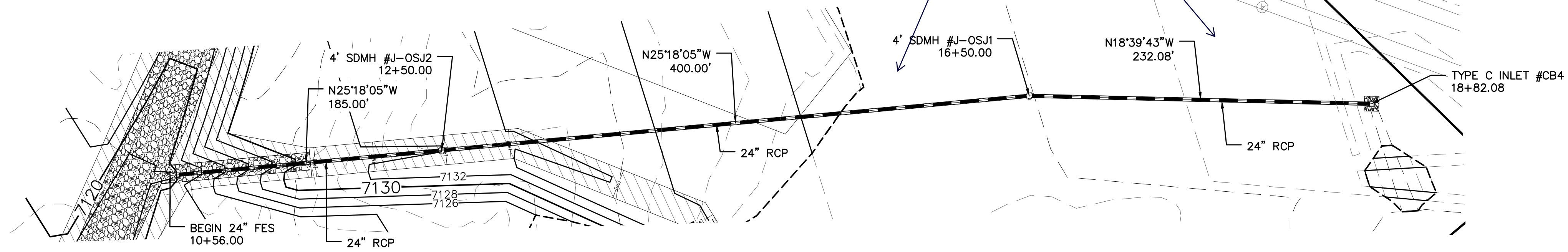


Provide the hydrology/ hydraulic calculations in the drainage report (FDR). Update the extents of the rational map in the drainage report to include this storm system.

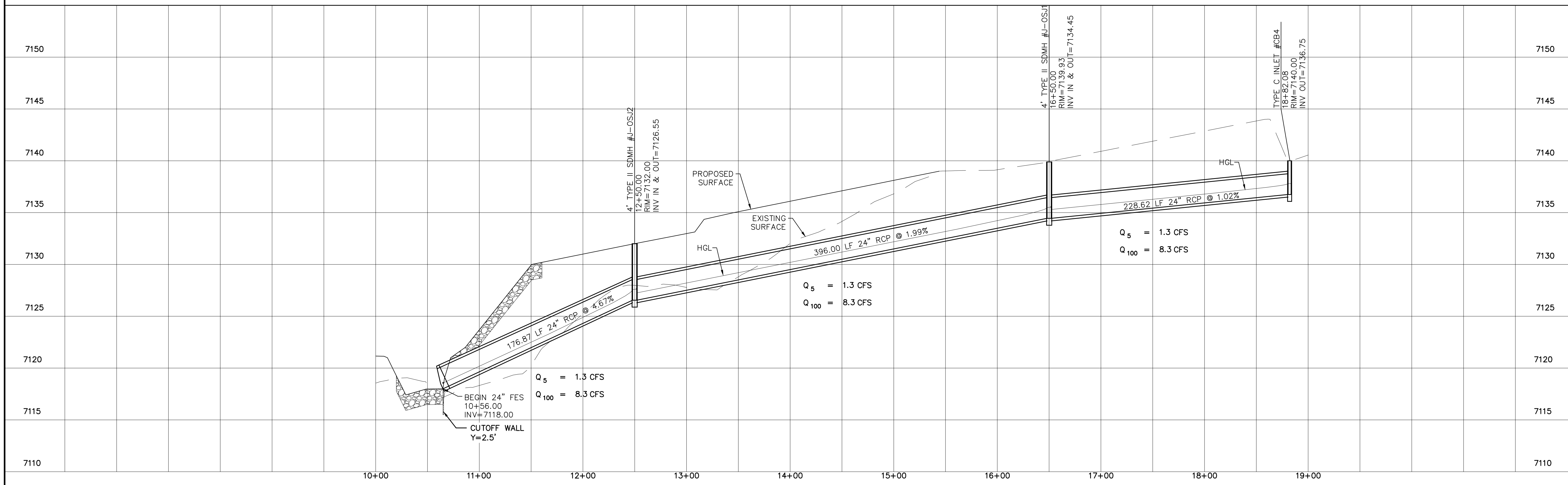
- If the inflow Q was already analyzed in a different FDR then adding a design point and referencing the relevant FDR in the narrative is sufficient. Showing the full tributary area with this project FDR would not required, just the storm line.

Unresolved. The rational drainage map shows OS1 basin, but does not show the pipe system. Add a sheet for the drainage map that shows the entire system (sub-basin & pipe)

- LEGEND**
- | SYMBOL | ACRONYM | DESCRIPTION |
|--------|---------|---|
| | | STRAW BALES |
| | | EROSION WATTLES PER DETAIL SHEET 29 |
| | | 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 29 |
| | | LIMITS OF GRADING |
| | | EXISTING CONTOUR (10') |
| | | EXISTING CONTOUR (2') |
| | | PROPOSED CONTOUR (10') |
| | | PROPOSED CONTOUR (2') |
| | | GRADE |
| | | LOT NUMBER |
| | | LOT GRADE TYPE |
| | | EXISTING STOCKPILE AREAS |
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STORM #3



No.	Date	Revisions	Appr.
1			
2			
3			
4			

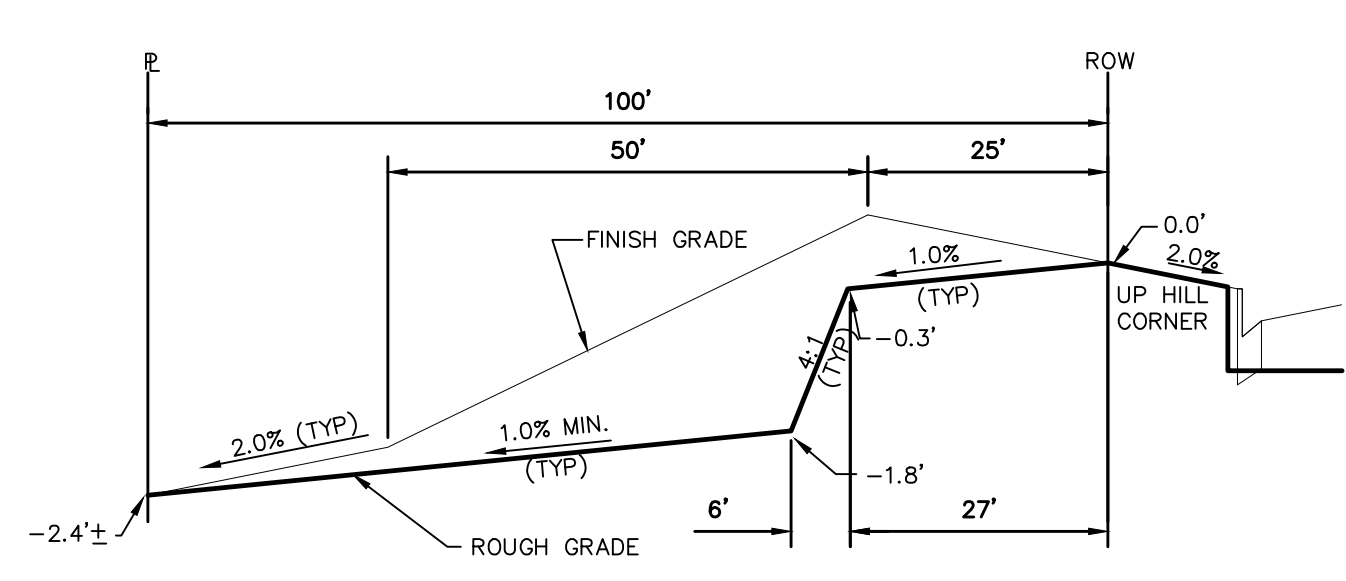
TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

MERIDIAN RANCH

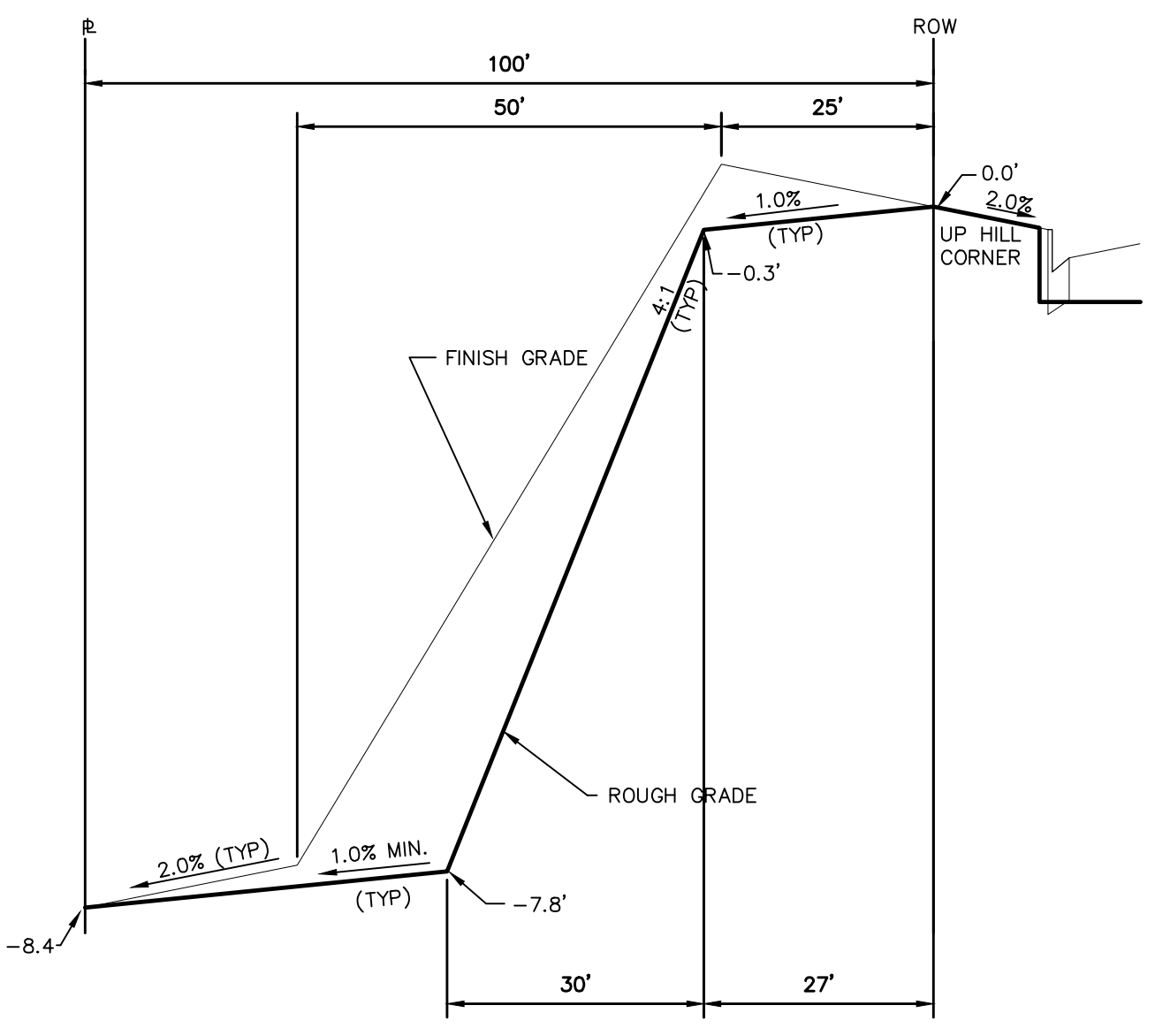
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING/EROSION CONTROL PLAN
DETAIL SHEET

Drawn by: LOG
Checked by: TMK
Date: MARCH 2020

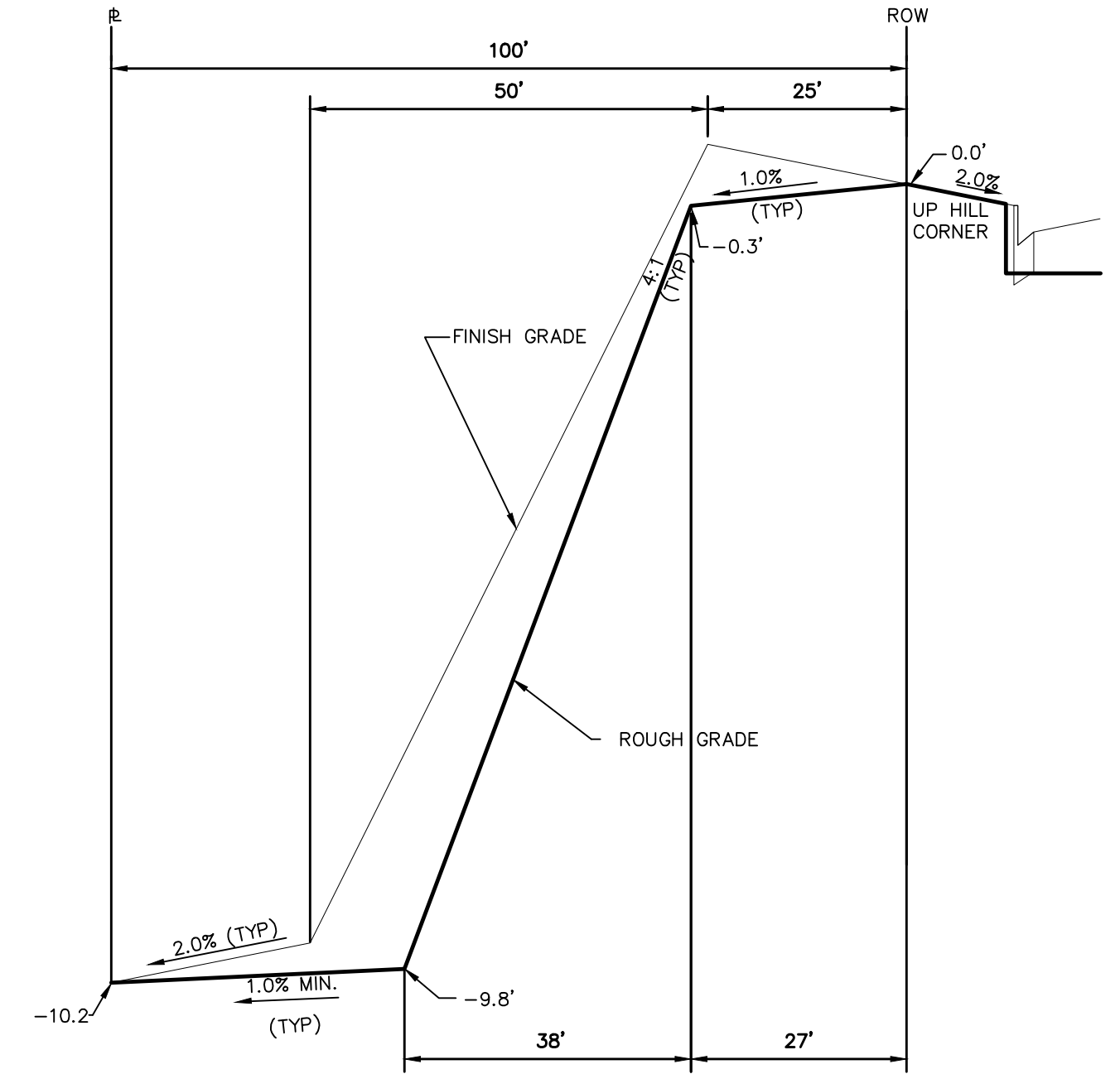
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27 of 29



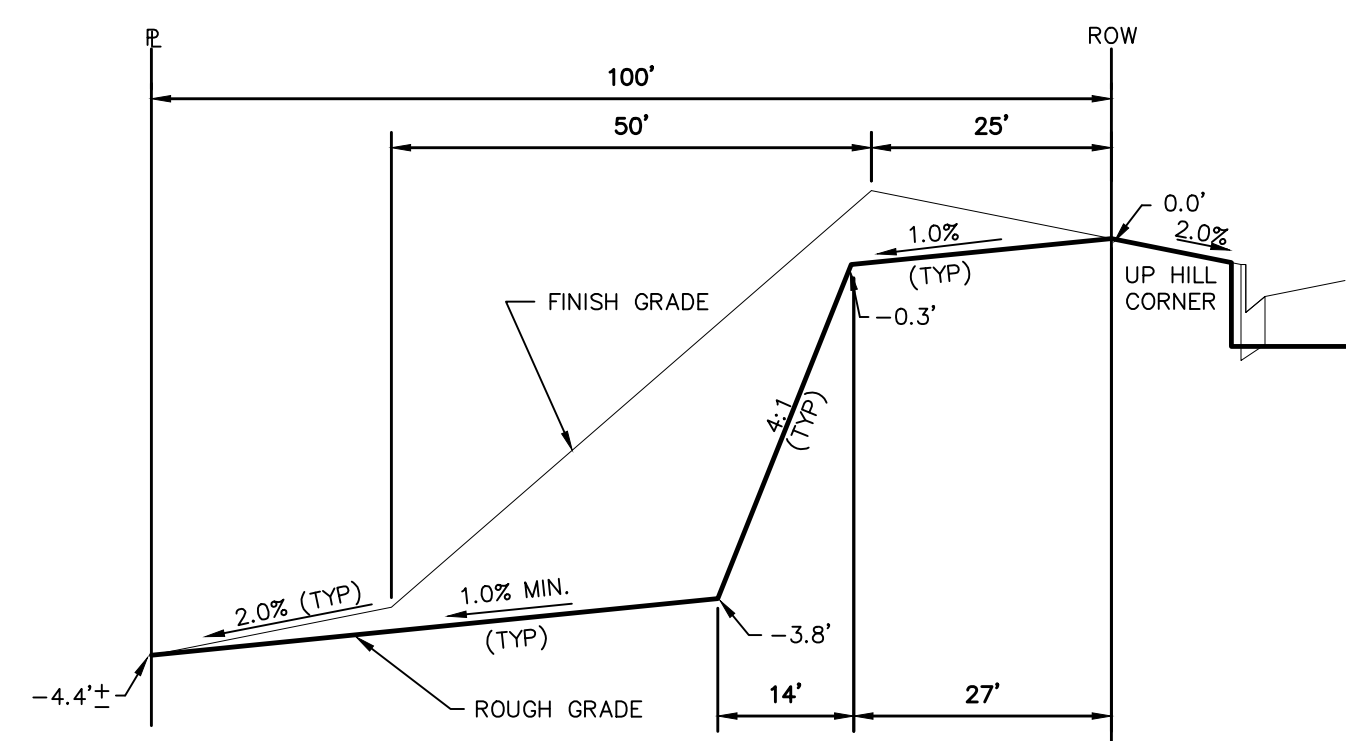
TYPICAL LOT "G2" TEMPLATES
NTS



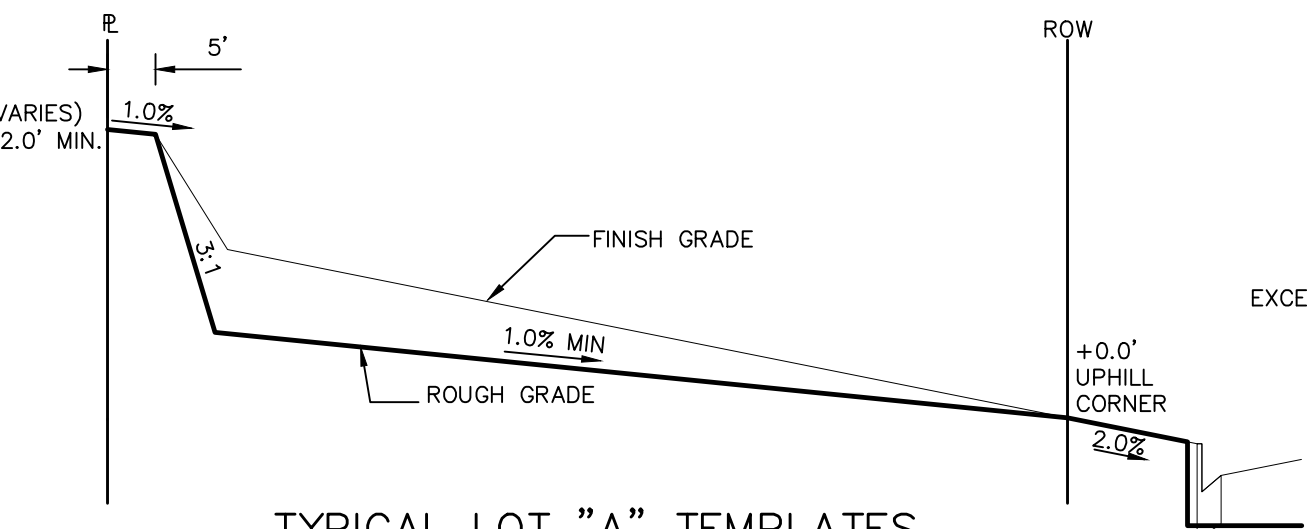
TYPICAL LOT "W8" TEMPLATES
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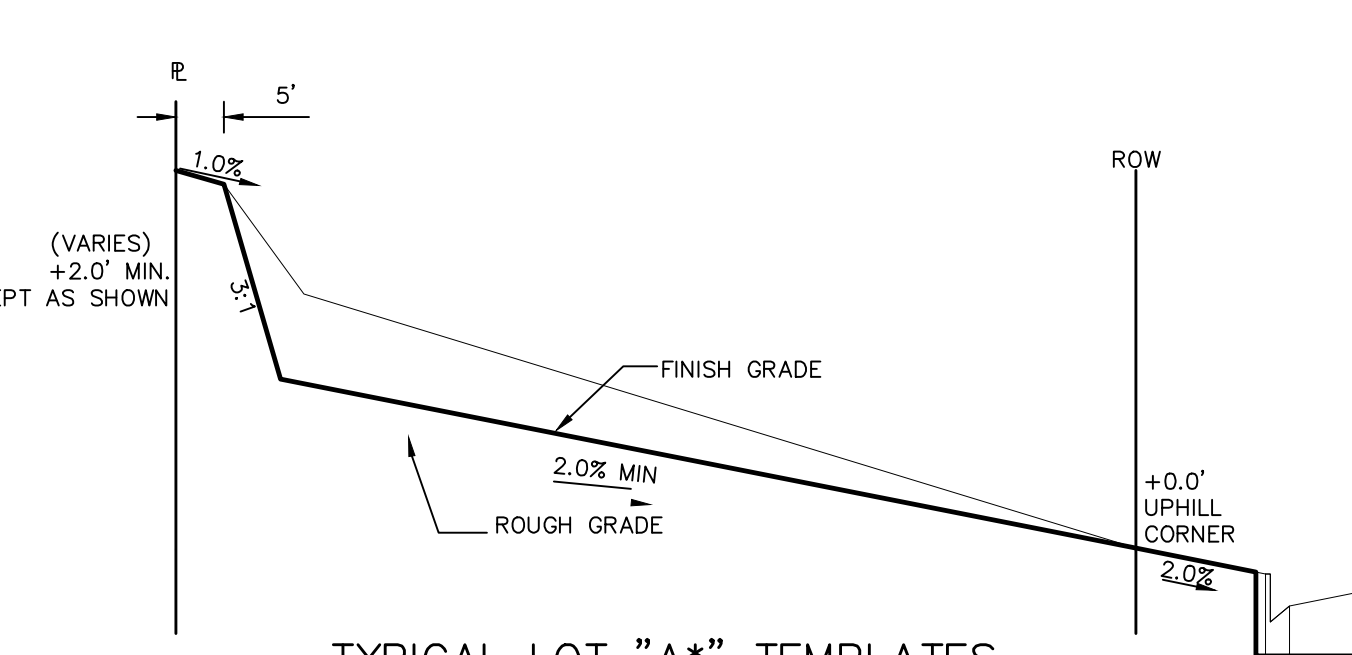
TYPICAL LOT "W10" TEMPLATES
NTS



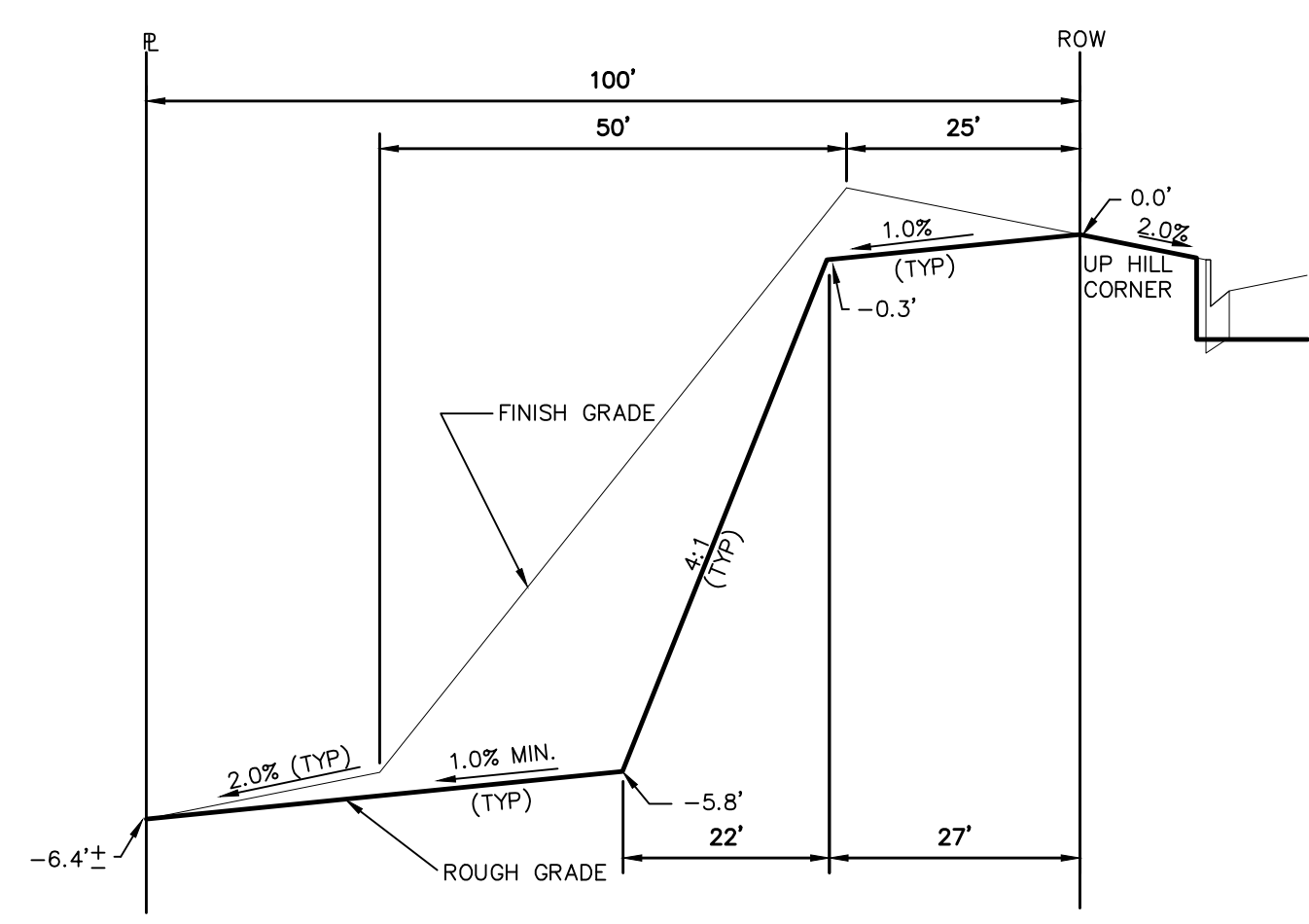
TYPICAL LOT "G4" TEMPLATES
NTS



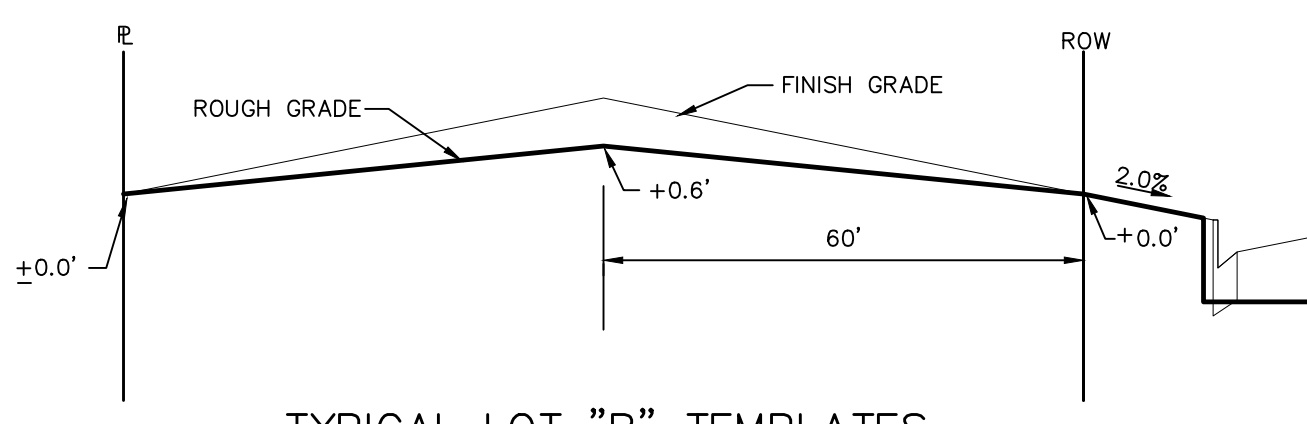
TYPICAL LOT "A" TEMPLATES
NTS



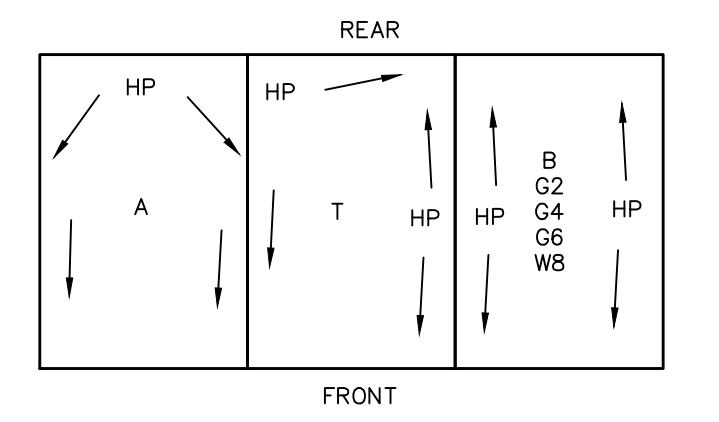
TYPICAL LOT "A*" TEMPLATES
NTS



TYPICAL LOT "G6" TEMPLATES
NTS



TYPICAL LOT "B" TEMPLATES
NTS



TYPICAL DRAINAGE PATTERN
NTS

STEPS FOR CONSTRUCTION

THE ANTICIPATED START FOR THIS PROJECT IS APRIL 2020 WITH AN ANTICIPATED COMPLETION DATE OF NOVEMBER 2020. BELOW IS A BRIEF OUTLINE OF THE CONSTRUCTION SEQUENCE FOR THIS PROJECT.

- * INSTALL INITIAL BMP'S
- * CONSTRUCTION OF DITCHES AND EROSION CONTROL STRUCTURES
- * ROUGH GRADING

EROSION AND SEDIMENT CONTROLS

SILT FENCES AND STRAW BALE CHECK DAMS (OR APPROVED EQUAL) WILL BE INSTALLED PRIOR TO ANY EXCAVATION FOR THE MAJOR ROADS. STRAW BALE CHECK DAMS, FILTEREX OR APPROVED EQUAL WILL BE PLACED AT ALL ENTRANCES AND EXITS OF DRAINAGE WAYS. STRAW BALES, FILTEREX OR APPROVED EQUAL WILL BE INSTALLED AROUND THE OUTLET AND OVERFLOW STRUCTURE. THE OUTLET STRUCTURE WILL ALSO BE PROTECTED WITH RIPRAP ON THE DOWNSTREAM SIDE.

NON-STRUCTURE PRACTICES TO CONTROL EROSION AND SEDIMENTATION WILL INCLUDE RESEEDING OF GROUND COVER IN DISTURBED AREAS ACCORDING TO THE EROSION CONTROL PLAN. TEMPORARY SEEDING OF THE DETENTION POND AND MULCHING ALONG STEEP EMBANKMENTS WILL BE PERFORMED AS REQUIRED.

SILT FENCE IS REQUIRED TO BE IN PLACE PRIOR TO ANY MOVEMENT OF DIRT.

MATERIAL HANDLING AND SPILL PREVENTION

THE MOST PROBABLE SOURCE OF NON-STORMWATER POLLUTION IS REFUELING AND DAILY MAINTENANCE OPERATIONS. IF MOBILE FUEL TRUCKS ARE USED TO SERVICE EQUIPMENT, ABSORBENT MATERIALS AND CONTAINERS FOR THE STORAGE OF USED ABSORBENT MATERIAL WILL BE CLOSE BY. IF A FUEL TANK IS LEFT ON SITE, BERMS WILL BE BUILT AROUND THE TANK TO CAPTURE ANY SPILLED FUEL. AGAIN, ABSORBENT MATERIALS AND THEIR CONTAINERS WILL BE ON HAND.

THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS PLANNED ON SITE.

FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT

ONCE THE MAJOR ROADS ARE PAVED AND THE SURROUNDING DISTURBED AREAS ARE 70% ESTABLISHED WITH VEGETATION AND ACCEPTANCE BY THE MERIDIAN RANCH SERVICE DISTRICT, THE CHECK DAMS AND THE SILT FENCES AROUND THE STREETS CAN BE REMOVED. AFTER COMPLETION OF THE STORM SEWER SYSTEM, THE STRAW BALES AND/OR FILTEREX CAN BE REMOVED. AFTER ALL GROUND DISTURBING CONSTRUCTION HAS BEEN COMPLETED AND ALL SLOPES ARE 70% ESTABLISHED WITH VEGETATION AND ACCEPTANCE BY THE MERIDIAN RANCH SERVICE DISTRICT, REMAINING CHECK DAMS AND SILT FENCES CAN BE REMOVED. THE RIPRAP ON ANY OF THE OUTLETS WILL REMAIN AFTER CONSTRUCTION TO REDUCE EROSION OF THE CHANNELS. ALL PERMANENT SWALES WILL BE LINED WITH LANDSCAPING TO SLOW RUNOFF AND FILTER SEDIMENTS.

OTHER CONTROLS

THERE ARE SEVERAL BEST MANAGEMENT PRACTICES THAT CAN BE EMPLOYED TO PREVENT OR MITIGATE THE SOURCE OF POLLUTANTS AND CONTAMINATION OF STORMWATER RUNOFF. SOME OF THESE ARE:

- * ALL REFUSE DUMPSTERS AND RECEPTACLES SHALL BE EQUIPPED WITH FUNCTIONAL LIDS TO PREVENT RAIN AND SNOW FROM ENTERING.
 - * STORAGE CONTAINERS, DRUMS AND BAGS SHALL BE STORED AWAY FROM DIRECT TRAFFIC ROUTES TO PREVENT ACCIDENTAL SPILLS.
 - * EMPTY DRUMS SHALL BE COVERED TO PREVENT COLLECTION OF PRECIPITATION.
 - * CONTAINERS SHALL BE STORED ON PALLETS OR OTHER DUNNAGE TO PREVENT CORROSION OF CONTAINERS, WHICH CAN RESULT WHEN CONTAINERS COME IN CONTACT WITH MOISTURE ON THE GROUND.
 - * REGULARLY SCHEDULED REMOVAL OF CONSTRUCTION TRASH AND DEBRIS.
- THE CONTRACTOR IS CERTAINLY NOT LIMITED TO THESE GOOD HOUSEKEEPING MEASURES, AND MAY IMPLEMENT FURTHER CONTROLS AS PRUDENCE AND GOOD JUDGEMENT DEEM NECESSARY.

INSPECTION AND MAINTENANCE

A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PERFORMED EVERY 14 DAYS AS WELL AS AFTER ANY RAIN OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION:

- * EROSION OF V-NOTCH SWALES, CHANNELS AND SIDE SLOPES SHALL BE REPAIRED.
- * WHEN THE CHECK DAMS HAVE SILTED UP TO HALF THEIR HEIGHT, THE SILT SHALL BE REMOVED, CHANNEL GRADE REESTABLISHED, AND SIDE SLOPES RE-SEEDING IF NECESSARY. ANY CHECK DAMS THAT HAVE SHIFTED OR DECAYED SHALL BE REPAIRED OR REPLACED.
- * SILT FENCES SHALL BE CLEANED WHENEVER SEDIMENT HAS REACHED A DEPTH OF 6" AT THE FENCE, AND BROKEN WOODEN PARTS OR TORN FABRIC SHALL BE REPAIRED OR REPLACED.
- * ANY ACCUMULATED TRASH OR DEBRIS SHALL BE REMOVED FROM OUTLETS.
- * IF THE DEPTH OF THE SILT IN THE TEMPORARY SEDIMENTATION TRAP EXCEEDS 1/2 OF THE ORIGINAL DEPTH, THE TRAP SHALL BE CLEANED OUT AND RESTORED TO ITS ORIGINAL DEPTH. THE OVERFLOW SPILLWAY SHALL BE CLEANED OR REPAIRED AS NECESSARY.

AN INSPECTION AND MAINTENANCE LOG FOLLOWS THIS STORMWATER MANAGEMENT PLAN.

REVEGETATION AND SEEDING

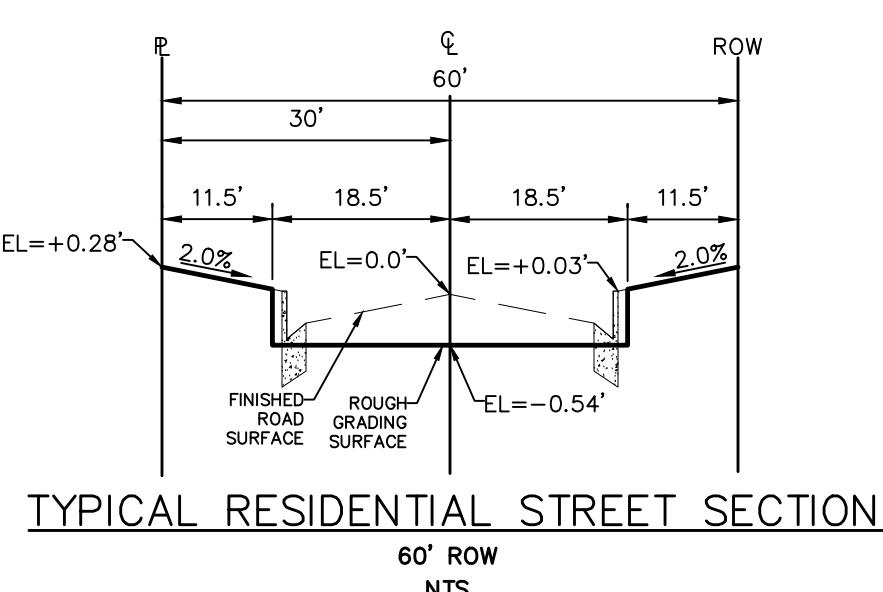
ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING OR BY HYDROMULCHING. IF SEEDING BY THE BROADCAST METHOD IS SELECTED THE APPLICATION RATE SHOULD BE DOUBLED. IF HYDROMULCHING IS SELECTED TWO OPERATIONS SHOULD BE CONSIDERED, APPLYING THE SEED FIRST AND THE MULCH IN A SECOND OPERATION. UPON COMPLETION OF THE SEEDING OPERATION THE SITE SHOULD BE COVERED WITH WEED FREE MULCH AT A RATE OF 4,000 LBS. PER ACRE. MULCH SHALL BE INSTALLED PER DCM VOLUME 2, FIGURE MU-1, FOUND ON PAGE 3-30.

BELOW IS THE ACCEPTED GRASS MIX FOR SANDY SOILS:

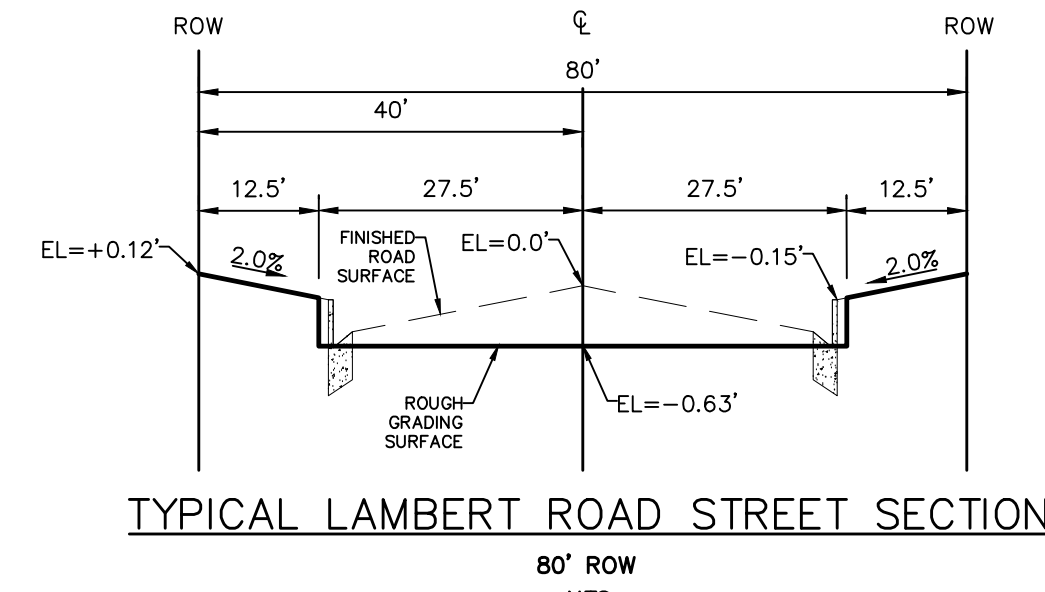
GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
SIDEOTS GRAMA	EL RENO	3.0
WESTERN WHEATGRASS	BARTON	2.5
SLENDER WHEATGRASS	NATIVE	2.0
LITTLE BLUESTERN	PASTURA	2.0
SAND DROPSEED	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0

NOTE:

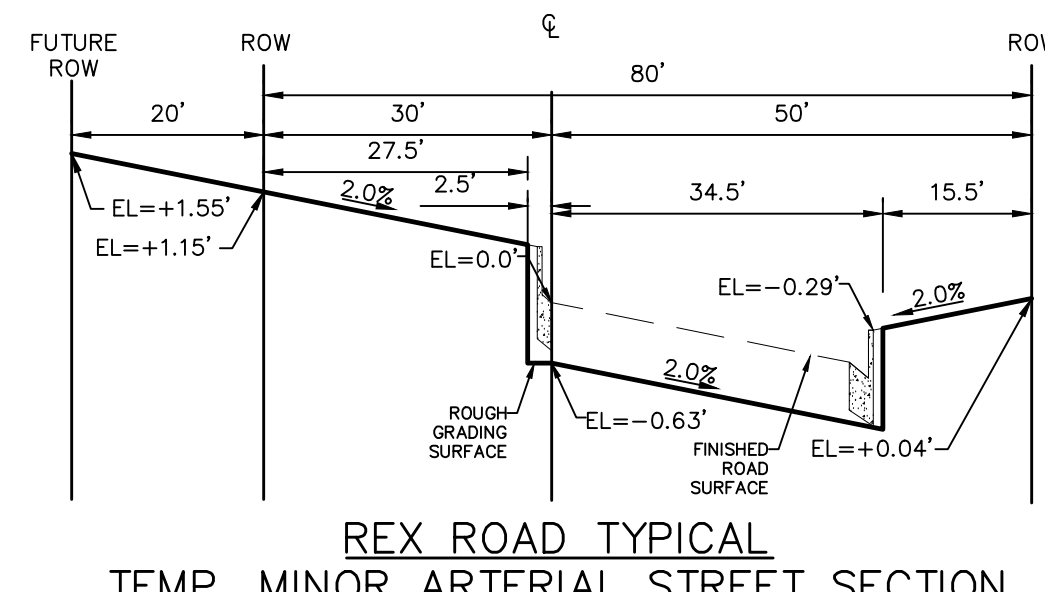
"FINISH GRADE" IN THE TEMPLATES ARE ONLY APPROXIMATE GRADES. ACTUAL FINISHED GRADES WILL VARY DEPENDING ON INDIVIDUAL HOME PLOT PLANS. PLOT PLANS SHALL CLOSELY FOLLOW THE FINISH GRADE PATTERNS SHOWN IN THE TEMPLATES WITHOUT ADVERSELY AFFECTING THE GRADES AND DRAINAGE PATTERNS OF NEIGHBORING LOTS OR TRACTS. CONTOURS SHOWN ON THESE PLANS ARE ROUGH GRADES AND WILL CHANGE WITH EVERY HOME CONSTRUCTION. FIELD VERIFY ALL GRADES PRIOR DESIGN OF INDIVIDUAL HOME PLOT PLANS.



TYPICAL RESIDENTIAL STREET SECTION
60' ROW
NTS



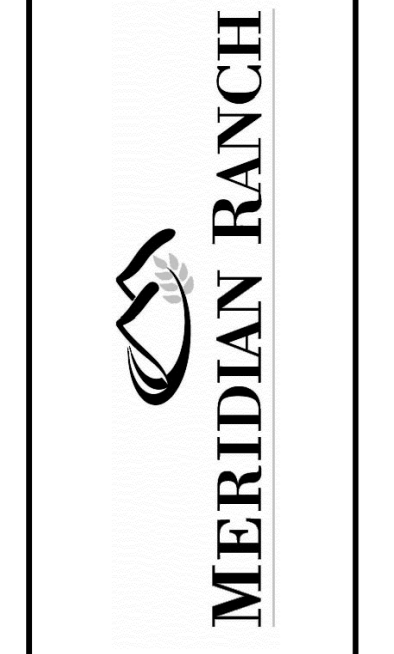
TYPICAL LAMBERT ROAD STREET SECTION
80' ROW
NTS



REX ROAD TYPICAL TEMP. MINOR ARTERIAL STREET SECTION
80' ROW(100' FUTURE)
NTS

No.	Revisions	Date	Appr.
1			
2			
3			
4			

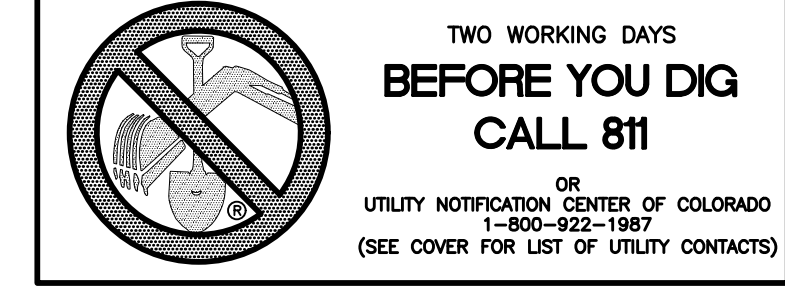
TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457



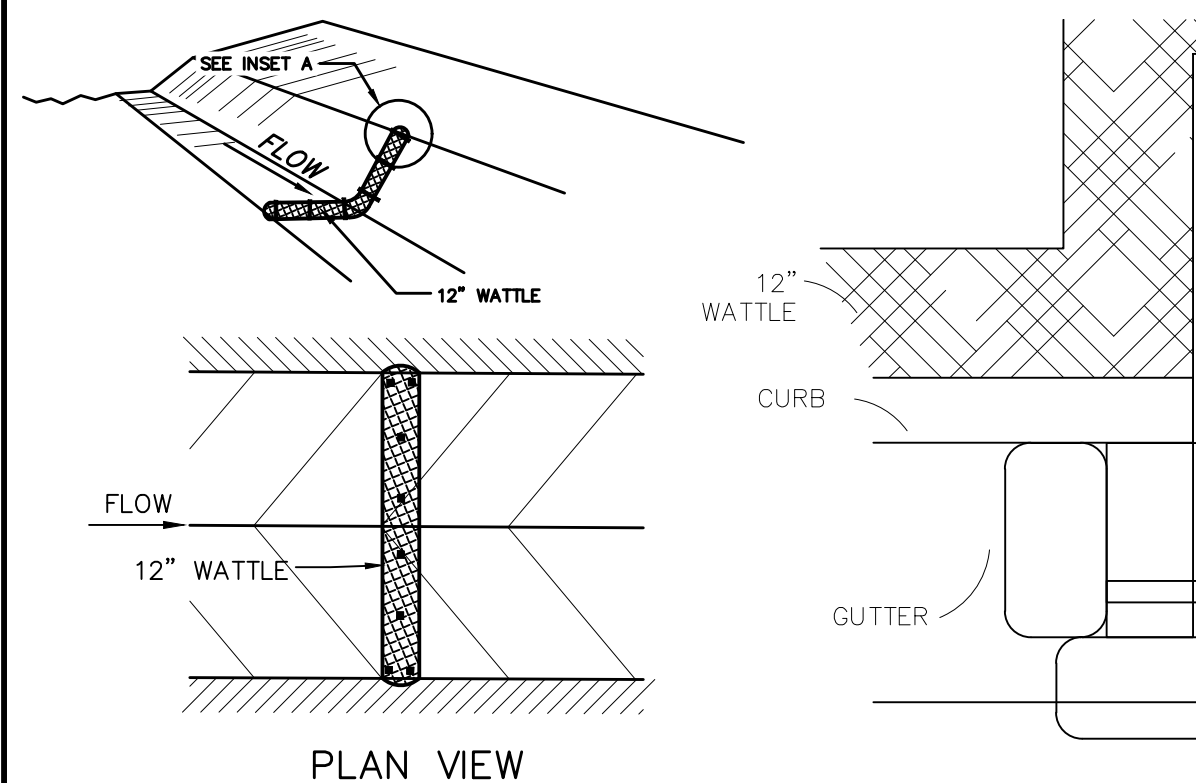
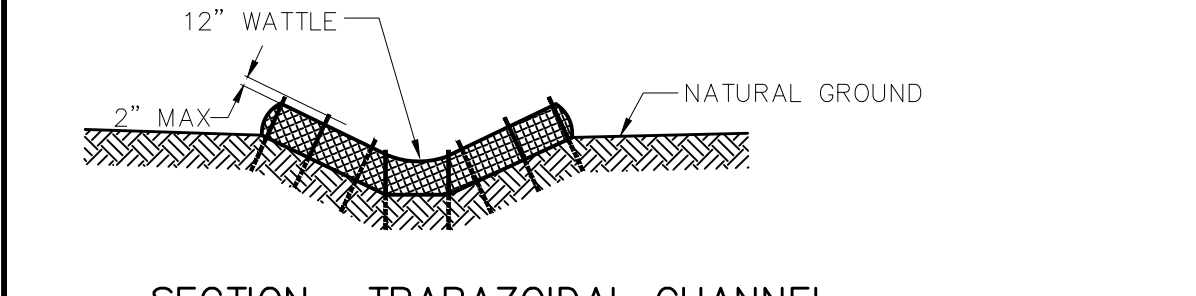
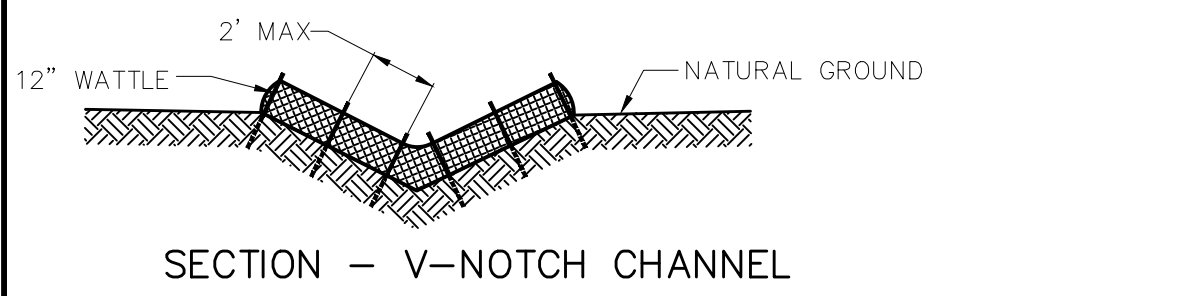
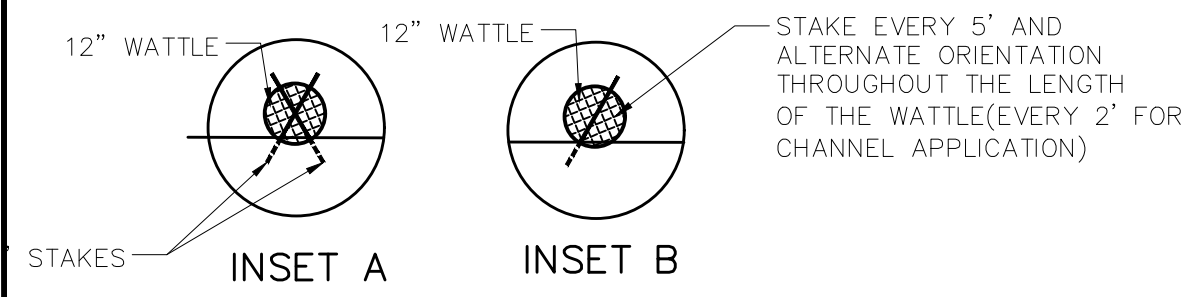
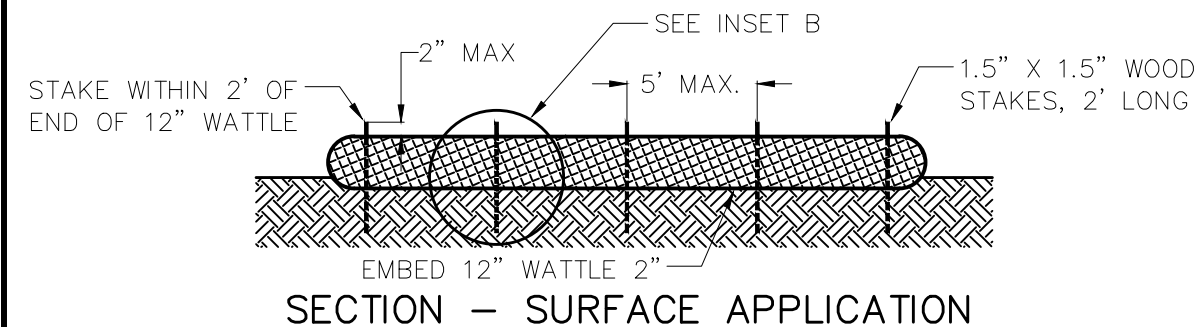
ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING-EROSION
CONTROL PLAN
DETAIL SHEET

Drawn by
Checked by
Date

Scale
AS SHOWN
28 of 29
MARCH 2020



STRAW BALE BARRIER NOTES



NOTES:

USE 2 FT WOODEN STATES WITH A 1.5 IN BY 1.5 IN NOMINAL CROSS SECTION.

ONLY INSTALL 12" WATTLES TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES OR AS DIRECTED.

REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE HALF OF THE EXPOSED LOG HEIGHT. INSPECTIONS SHALL BE PERFORMED FREQUENTLY FOR PROPER FUNCTION.

WHEN MORE THAN ONE EROSION LOG IS NEEDED, ENDS MUST BE TIGHTLY ABUTTED.

WATTLES MAY ALSO BE USED ACROSS LONG SLOPES TO REDUCE EROSION AND SEDIMENT VOLUME.

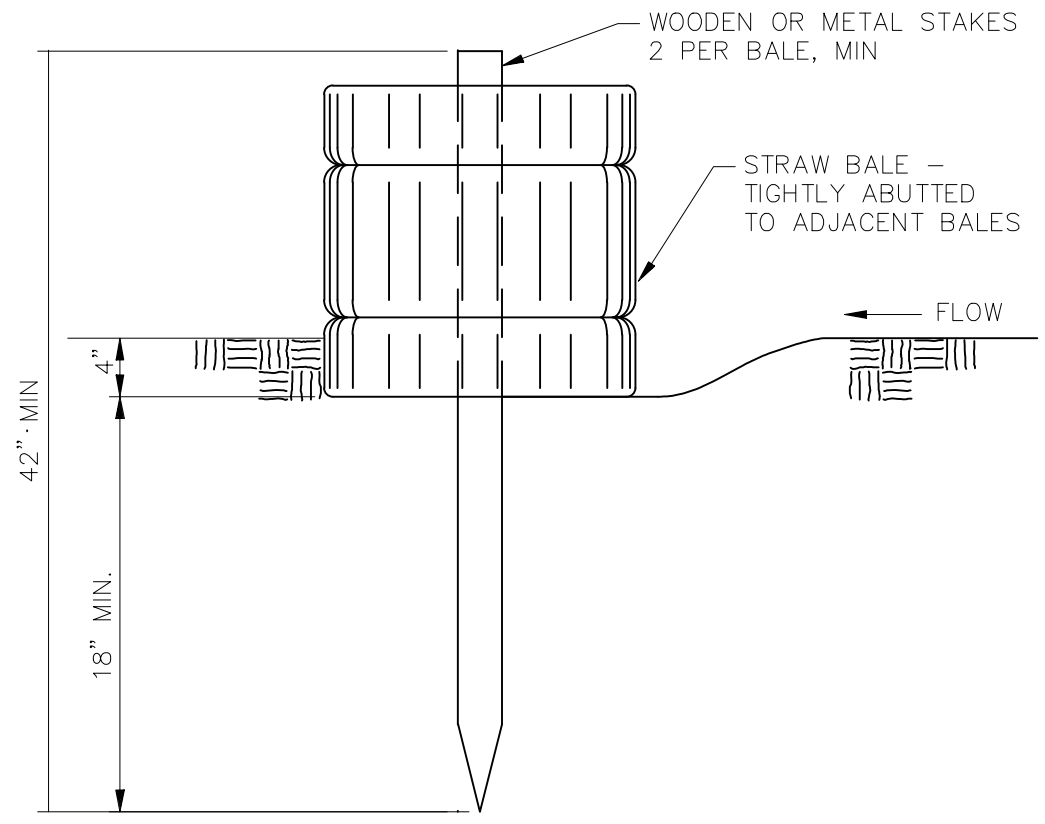
STRAW WATTLES MAY BE USED IN LIEU OF STRAW BALES AND/OR SILT FENCE WITH APPROVAL THE COUNTY, OWNER, ENGINEER, AND SWMP ADMINISTRATOR.

INSTALLATION REQUIREMENTS

- STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.
- BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
- EACH BALE IS TO BE SECURELY ANCHORED WITH AT LEAST TWO STAKES AND THE FIRST STAKE IS TO BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
- STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "T" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD STAKES SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
- BALES ARE TO BE BOUND WITH EITHER WIRE OR STRING AND ORIENTED SUCH THAT THE BINDINGS ARE AROUND THE SIDES AND NOT ALONG THE TOPS AND BOTTOMS OF THE BALE.
- GAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.
- END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.

MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT STRAW BALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
- DAMAGED OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.
- SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
- STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



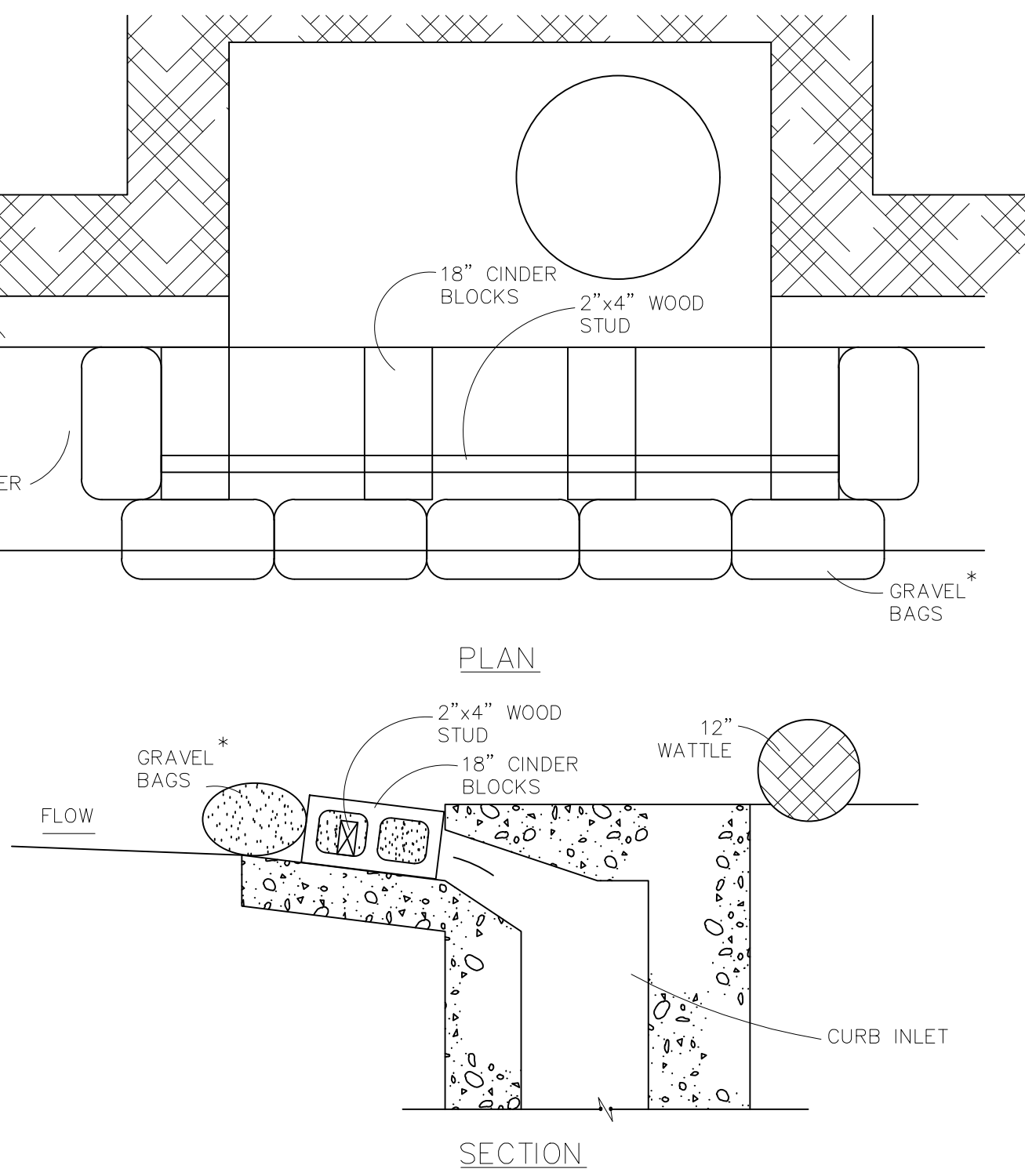
VEHICLE TRACKING NOTES

INSTALLATION REQUIREMENTS

- ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
- CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
- AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
- CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
- CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

MAINTENANCE REQUIREMENTS

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
- STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
- STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
- OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.



18" CINDER BLOCK AND GRAVEL BAG* CURB INLET PROTECTION

BLOCK AND GRAVEL BAG* CURB INLET PROTECTION NOTES

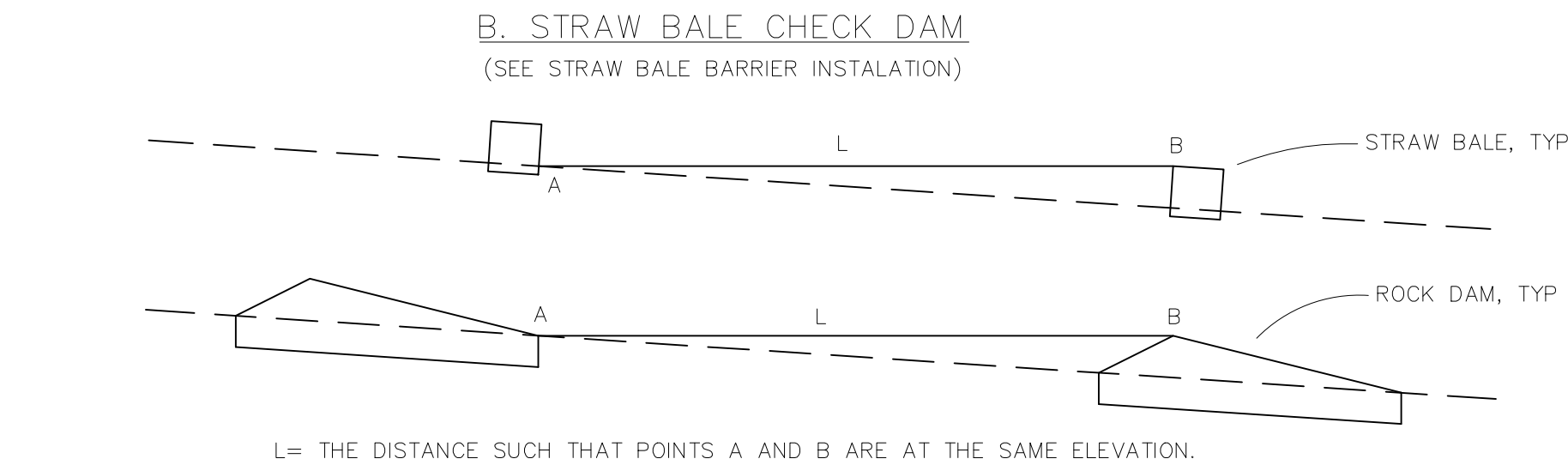
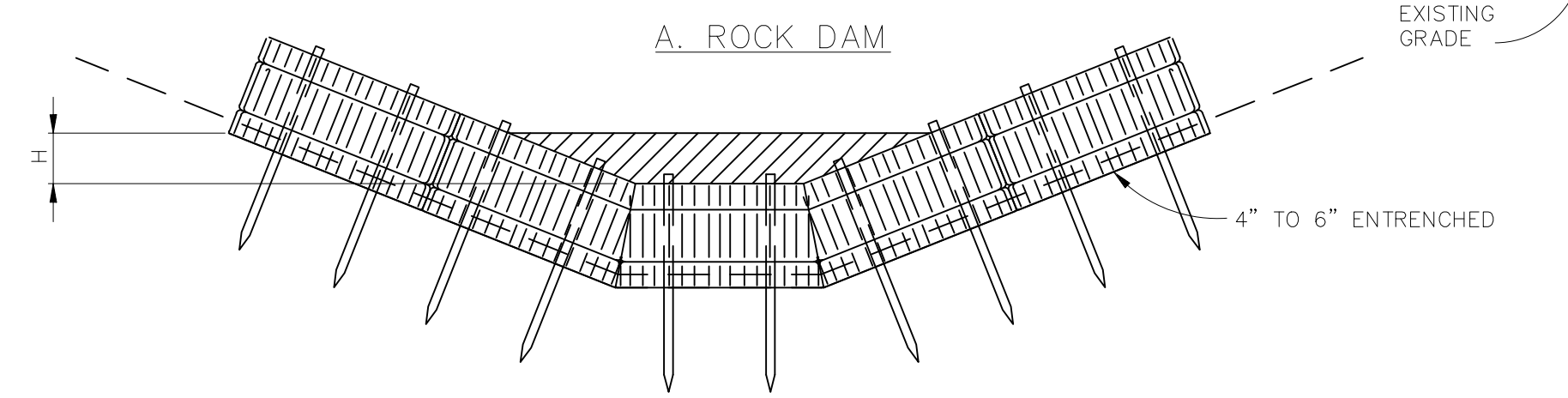
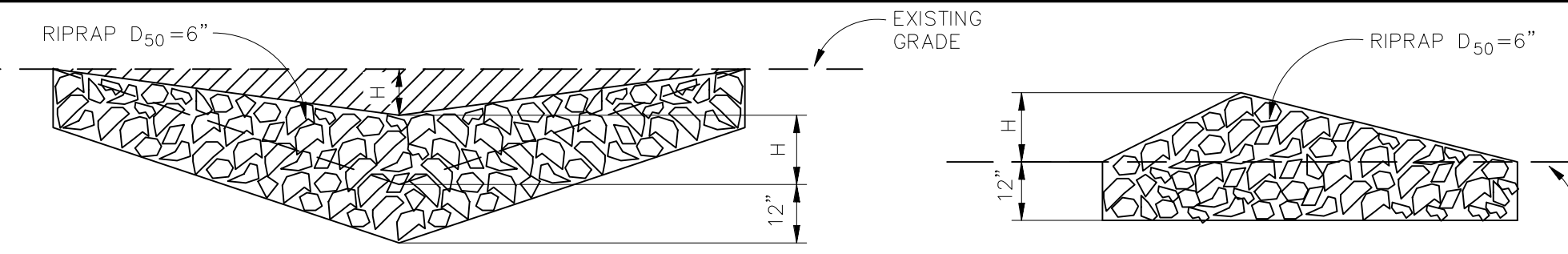
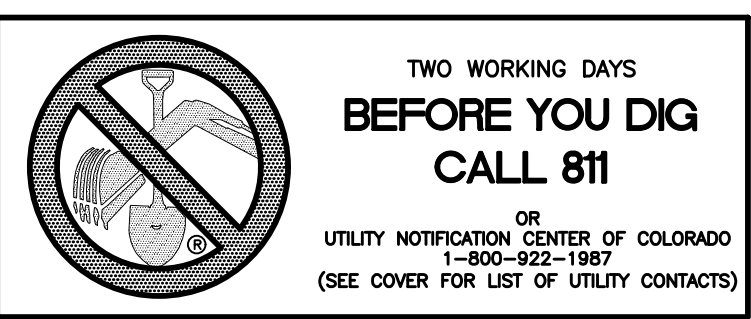
INSTALLATION REQUIREMENTS

- INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
- CONCRETE BLOCKS ARE TO BE LAID AT 2' SPACING ON THEIR SIDES WITH THE OPEN ENDS OF THE BLOCK FACING EACH OTHER.
- IF MORE THAN ONE 2X4 IS REQUIRED, THEY NEED TO OVERLAP BY A MINIMUM OF 2'
- GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
- GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
- BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
- DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
- SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
- INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

* AN ALTERNATE 3/4" TO 1" GRAVEL FILTER OVER A WIRE SCREEN MAY BE USED IN PLACE OF GRAVEL BAGS. THE WIRE MESH SHALL EXTEND ABOVE THE TOP OF THE CONCRETE BLOCKS AND THE GRAVEL PLACED OVER THE WIRE SCREEN TO THE TOP OF THE CONCRETE BLOCKS.



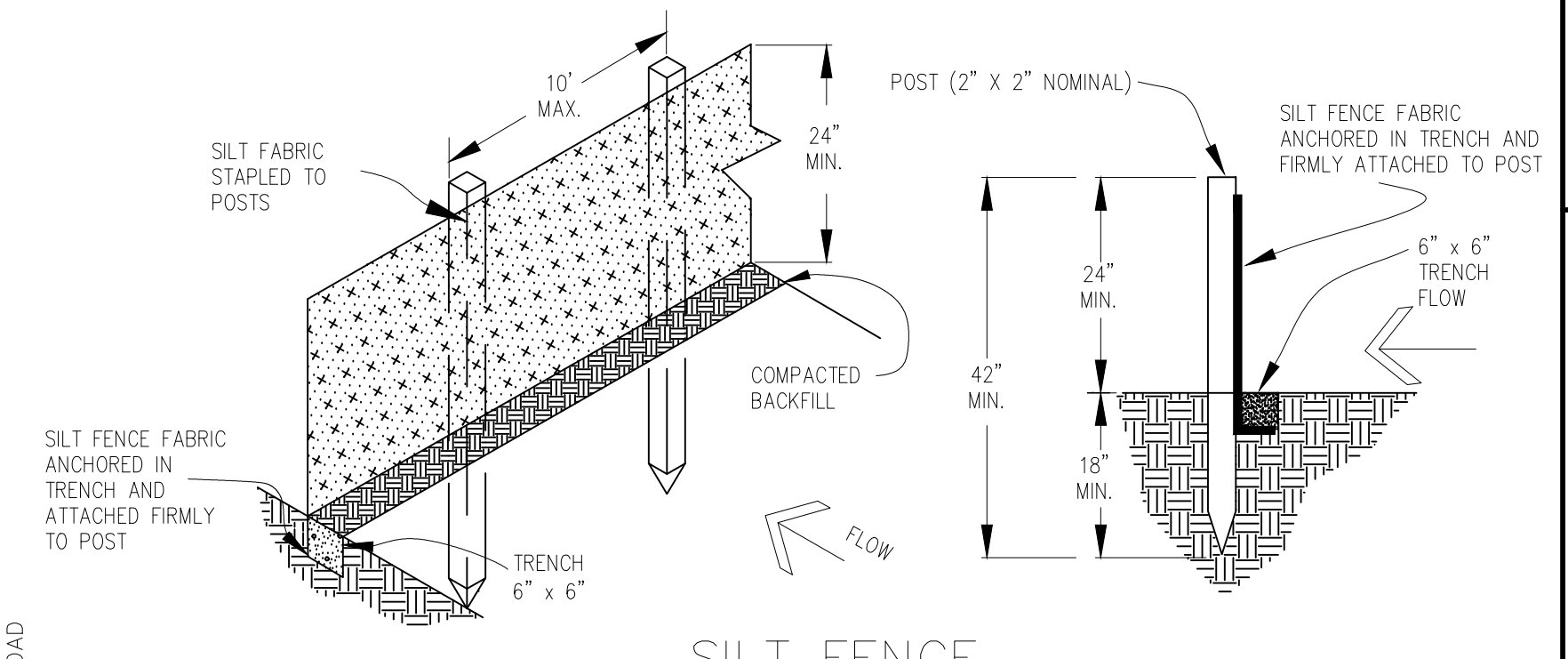
CHECK DAM NOTES

INSTALLATION REQUIREMENTS

- STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SBB-2.
- THE "H" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.

MAINTENANCE REQUIREMENTS

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
- REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
- ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
- CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
- WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

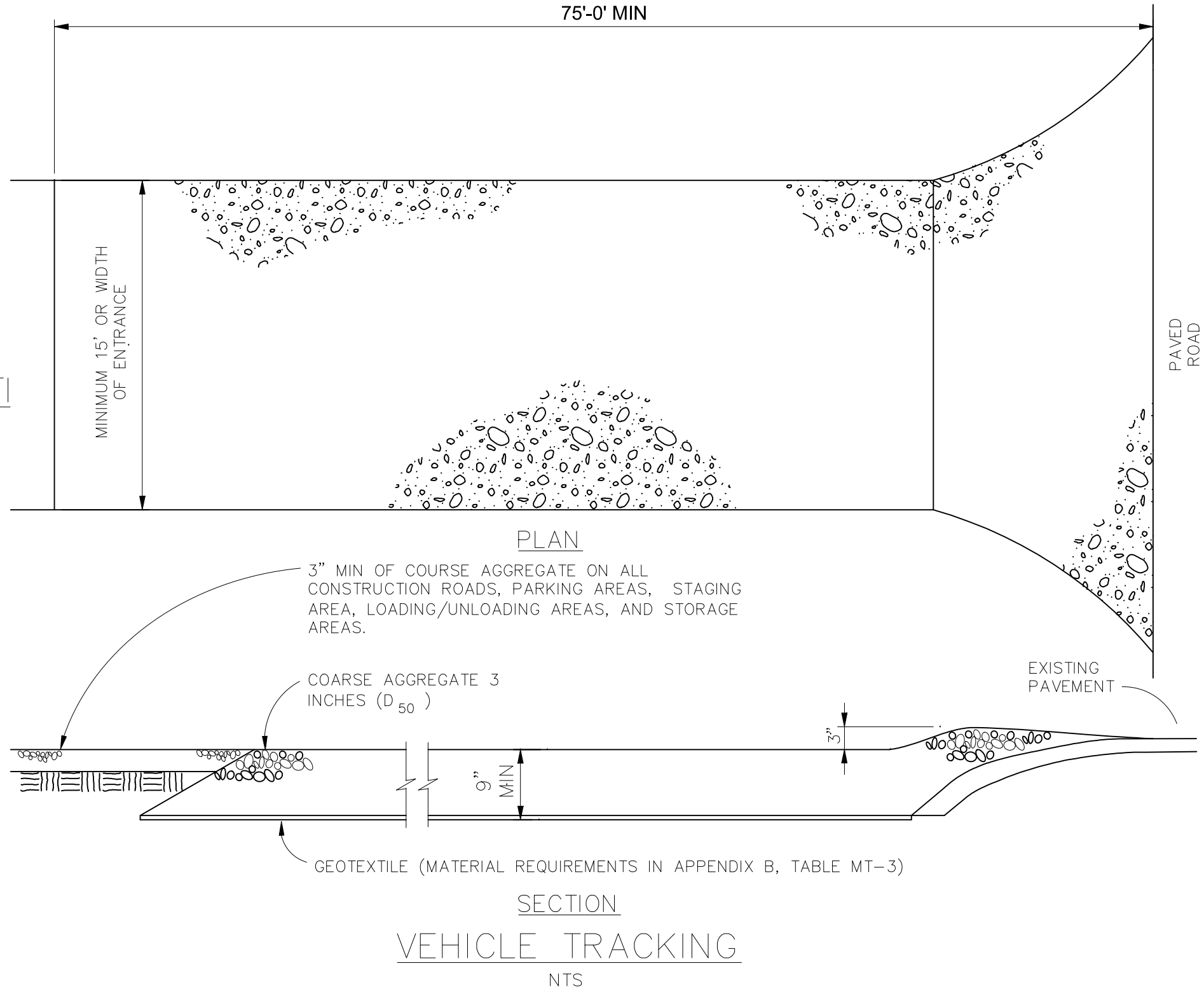


INSTALLATION REQUIREMENTS

- SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
- METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
- THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
- WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.

MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.
- SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
- SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



Scale	Drawn by	Checked by	Date	No.	Revisions	Appr.	Date
AS SHOWN	LOG	TAK	MARCH 2020	29 of 29			

TECH CONTRACTORS
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TELEPHONE: 719.495.7444
FAX: 719.495.2457

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING/EROSION
CONTROL PLAN
DETAIL SHEET

GEC_V2.pdf Markup Summary

dsdlaforce (13)



Subject: Callout
Page Label: 13
Author: dsdlaforce
Date: 4/29/2020 1:29:45 PM
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FYI: The stormwater engineer (Christina) will verify with State if temporary sediment basin is required at the end of the swale prior to discharging into Waters of the State even with Pond G being constructed downstream.

Unresolved. Per Nathan Moore at the State WQ Control Division, sediment and erosion controls need to be prior to discharge to the water of the state. Based on the tributary area, temporary sediment basin is required downstream of the temporary swale prior to discharging into the waters of the state.



Subject: Callout
Page Label: 13
Author: dsdlaforce
Date: 4/29/2020 1:38:47 PM
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Is this swale required at the early grading?

Silt fence is not the appropriate control measure in front of a temporary swale.

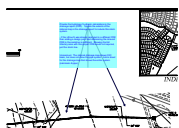
Silt fence is acceptable if it is sheet flow for 1/4 acre disturbed area upstream per 100 ft of silt fence.



Subject: Callout
Page Label: 7
Author: dsdlaforce
Date: 4/29/2020 2:06:50 PM
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Make sure to explain in the narrative for the tributary subbasin or within the temp sediment pond section why 42" pipe is used. Review engineer is assuming this is designed/constructed based on subdivision buildout and will remain in place after the temp pond is removed. Be advised this is installed at the developers risk. Final approval of design/construction will be based on the subsequent subdivision plat's approved drainage report and construction plans.

Unresolved.

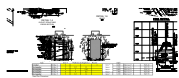


Subject: Callout
Page Label: 27
Author: dsdlaforce
Date: 4/29/2020 3:09:46 PM
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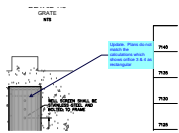
Provide the hydrology/ hydraulic calculations in the drainage report (FDR). Update the extents of the rational map in the drainage report to include this storm system.

- If the inflow Q was already analyzed in a different FDR then adding a design point and referencing the relevant FDR in the narrative is sufficient. Showing the full tributary area with this project FDR would not required, just the storm line.

Unresolved. The rational drainage map shows OS1 basin, but does not show the pipe system. Add a sheet for the drainage map that shows the entire system (sub-basin & pipe)



Subject: Image
Page Label: 26
Author: dsdlaforce
Date: 4/29/2020 3:51:31 PM
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Subject: Callout
Page Label: 26
Author: dsdlaforce
Date: 4/29/2020 3:54:09 PM
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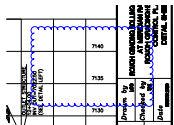
Update. Plans do not match the calculations which shows orifice 3 & 4 as rectangular



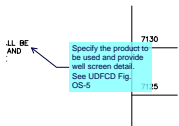
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Page Label: 26
Author: dsdlaforce
Date: 4/29/2020 3:54:18 PM
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Subject: Snapshot
Page Label: 26
Author: dsdlaforce
Date: 4/29/2020 3:59:01 PM
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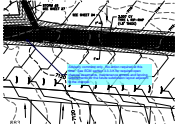


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Author: dsdlaforce
Date: 4/29/2020 4:00:04 PM
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Subject: Callout
Page Label: 26
Author: dsdlaforce
Date: 4/29/2020 4:01:14 PM
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Specify the product to be used and provide well screen detail. See UDFCD Fig. OS-5



Subject: Callout
Page Label: 16
Author: dsdlaforce
Date: 4/30/2020 7:11:25 AM
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Advisory comment only. No action required at this time: See ECM section 3.3.3.K for required open channel easements, maintenance access and fencing requirements for the future subdivision layout adjacent to the channel.

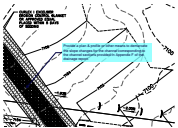


Subject: Cloud+
Page Label: 18
Author: dsdlaforce
Date: 4/30/2020 7:20:07 AM
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Per criteria the following channel criteria should be met:

1. superelevation calculation for the bend is required. See DCM 10.5.6
2. ECM 3.3.3.E.2 radius of curvature.

Since downstream of the bend is temporary, update the narrative on page 23 to explain why the bend is not being designed per criteria listed above in lieu of a deviation request.



Subject: Callout
Page Label: 18
Author: dsdlaforce
Date: 4/30/2020 7:21:41 AM
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Provide a plan & profile or other means to demarcate the slope changes for the channel corresponding to the channel sections provided in Appendix F of the drainage report.