

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;

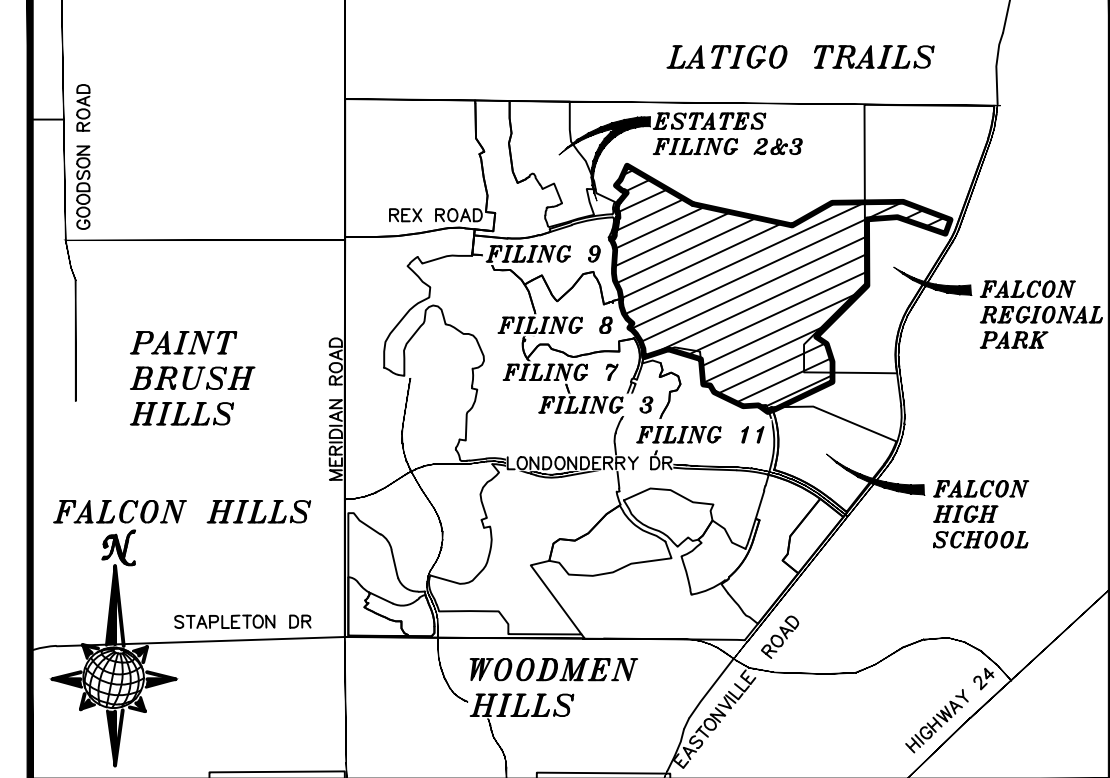
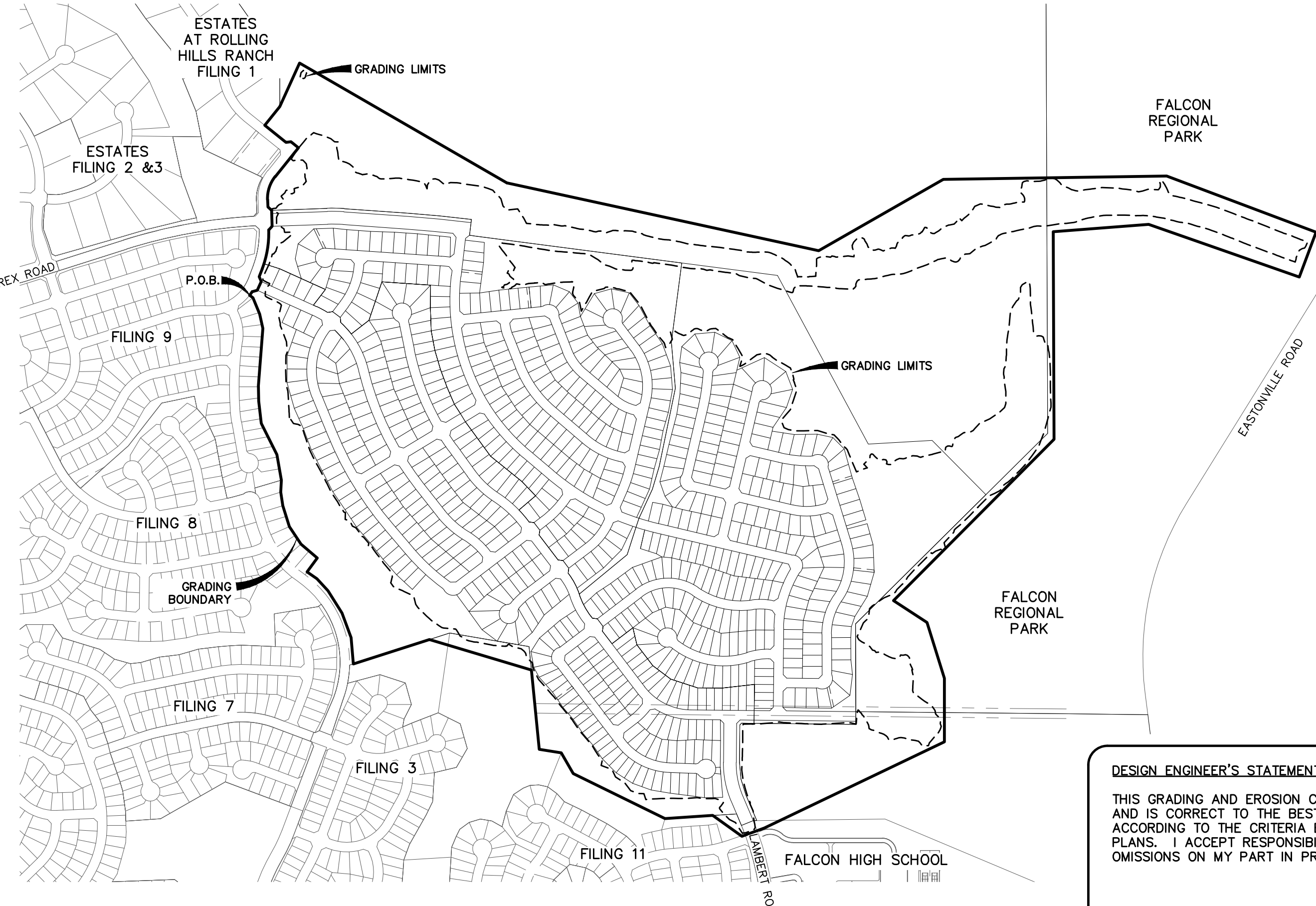
28. THENCE S56°47'59"E A DISTANCE OF 250.00 FEET;
29. THENCE S17°20'56"E A DISTANCE OF 366.37 FEET;
30. THENCE S00°00'00"E A DISTANCE OF 398.48 FEET;
31. THENCE S64°25'35"W A DISTANCE OF 1,250.00 FEET;
32. THENCE S69°41'14"W A DISTANCE OF 150.00 FEET;
33. THENCE N54°36'02"W A DISTANCE OF 225.00 FEET;
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"E 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

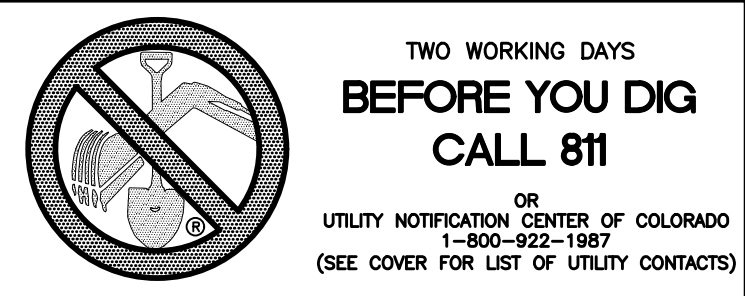
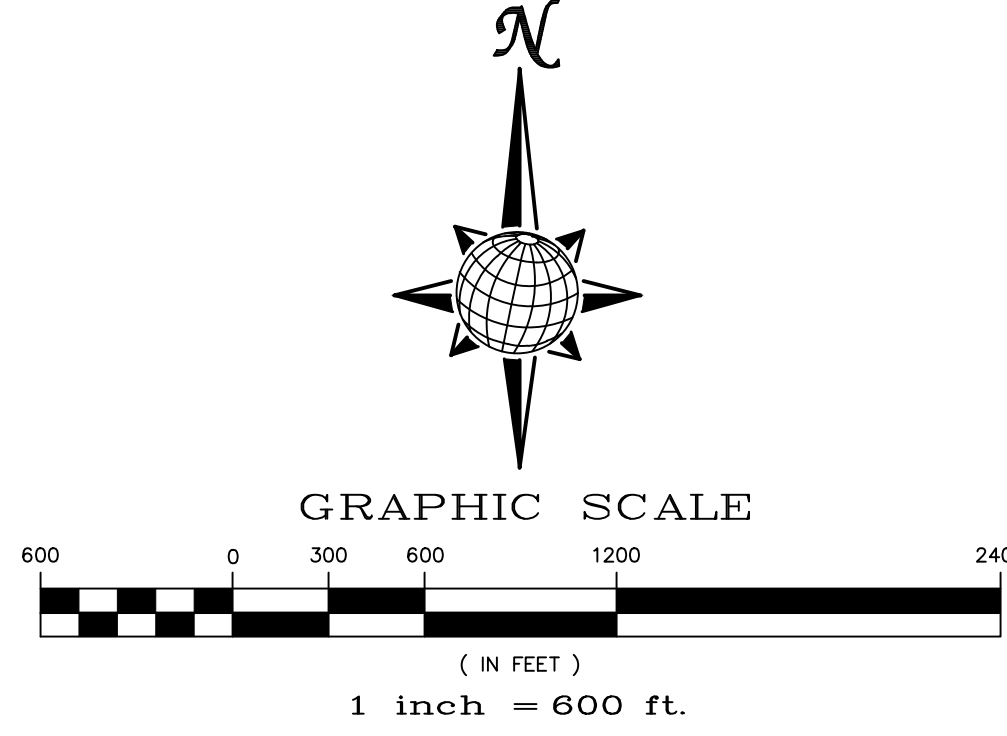
PREPARED FOR GTL, INC. DBA GTL DEVELOPMENT, INC.

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
3-22	LAYOUT SHEETS
23-28	DETAIL SHEETS



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 _____

MILTON GABRIELSKI, PRESIDENT
 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 _____

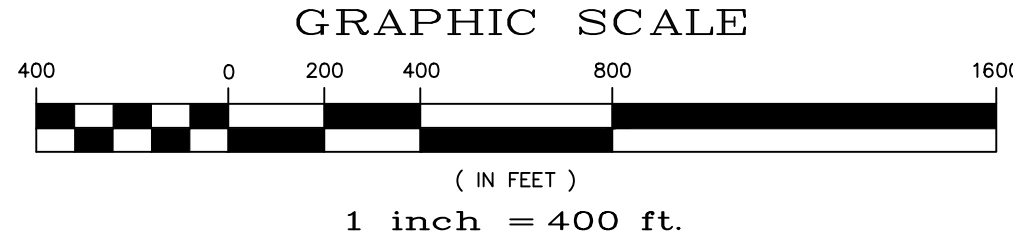
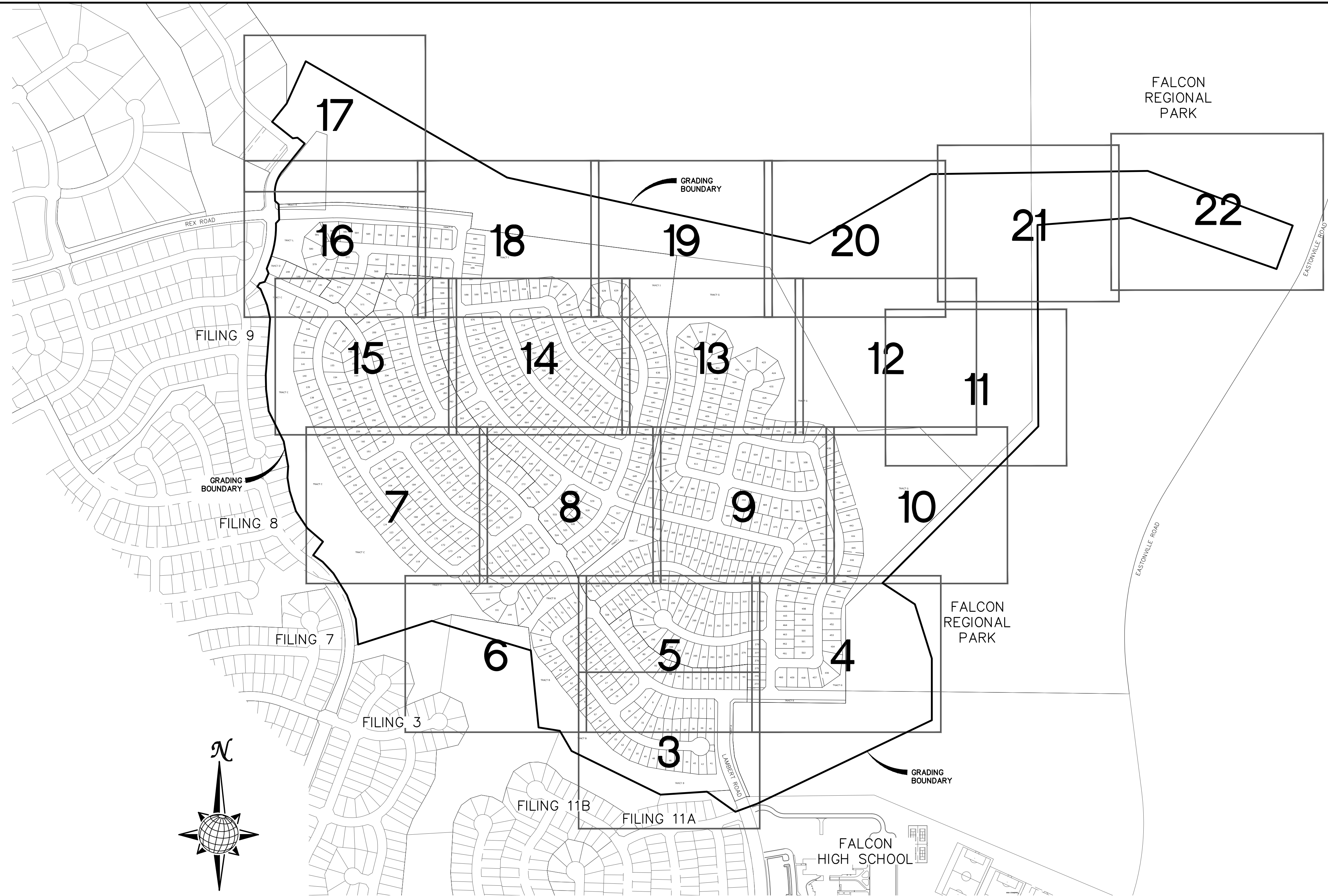
No.	Date	Appr.
1		
2		
3		
4		
Revisions		
No.		
TECH CONTRACTORS		
11886 STAPLETON DRIVE		
FALCON, CO 80831		
TELEPHONE: 719.495.7444		
FAX: 719.495.2457		
MERIDIAN RANCH		
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN COVER SHEET		
Drawn by	LOG	Checked by
AS SHOWN		TAK
Scale	1 of 28	Date
		JAN 2020

Revise to EGP203

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 LOOSENED 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:

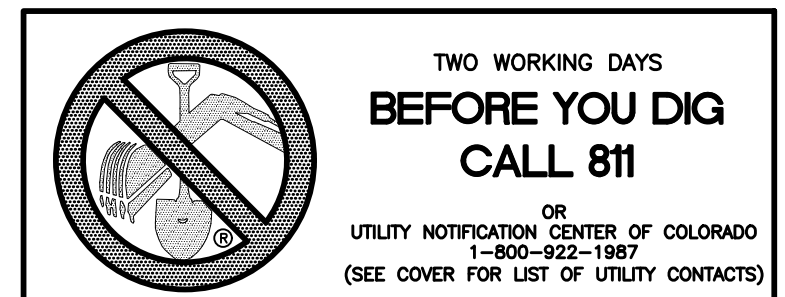
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
 WATER QUALITY CONTROL DIVISION
 WOOD - PERMITS
 4300 CHERRY CREEK DRIVE SOUTH
 DENVER, CO 80246-1530
 ATTN: PERMITS UNIT



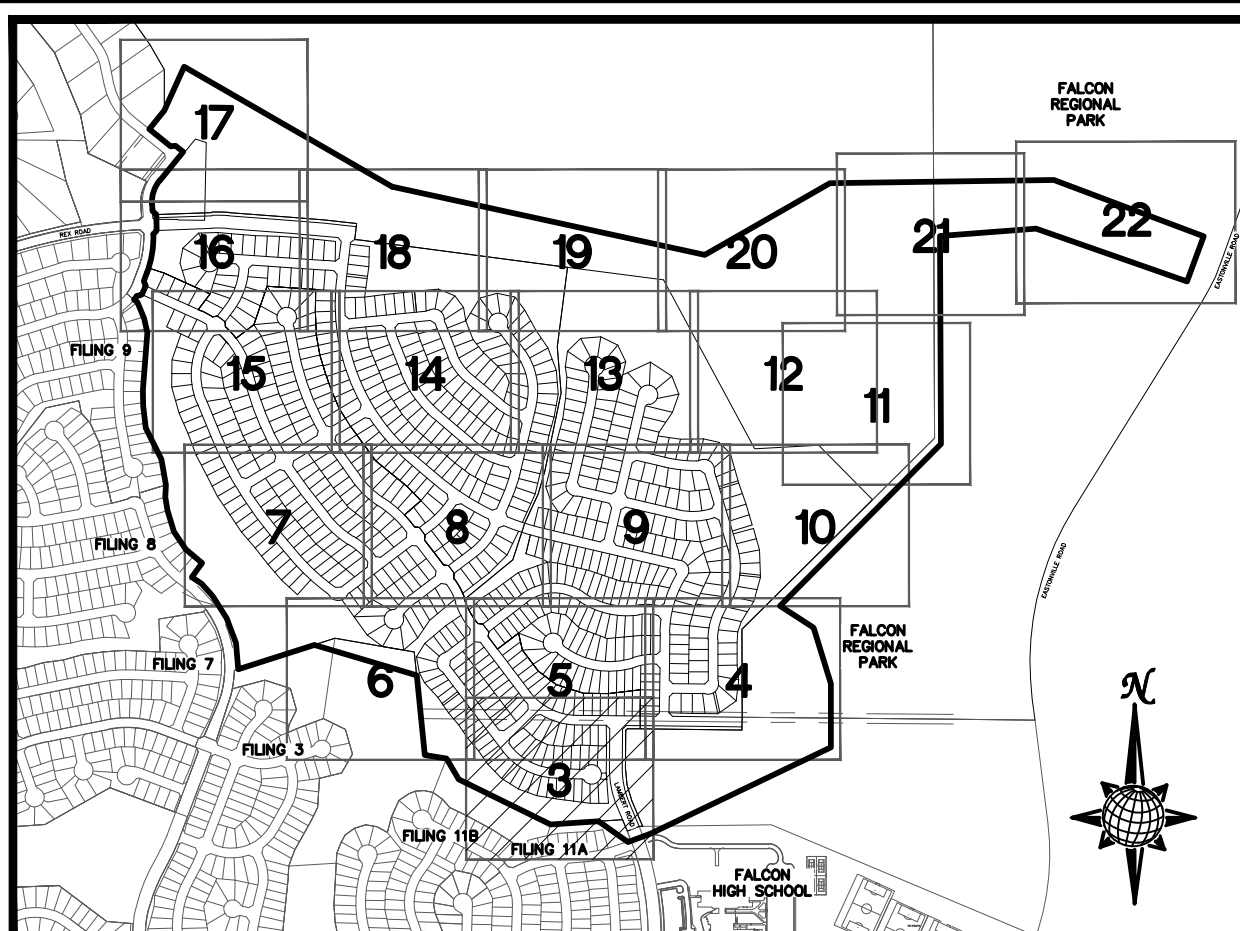
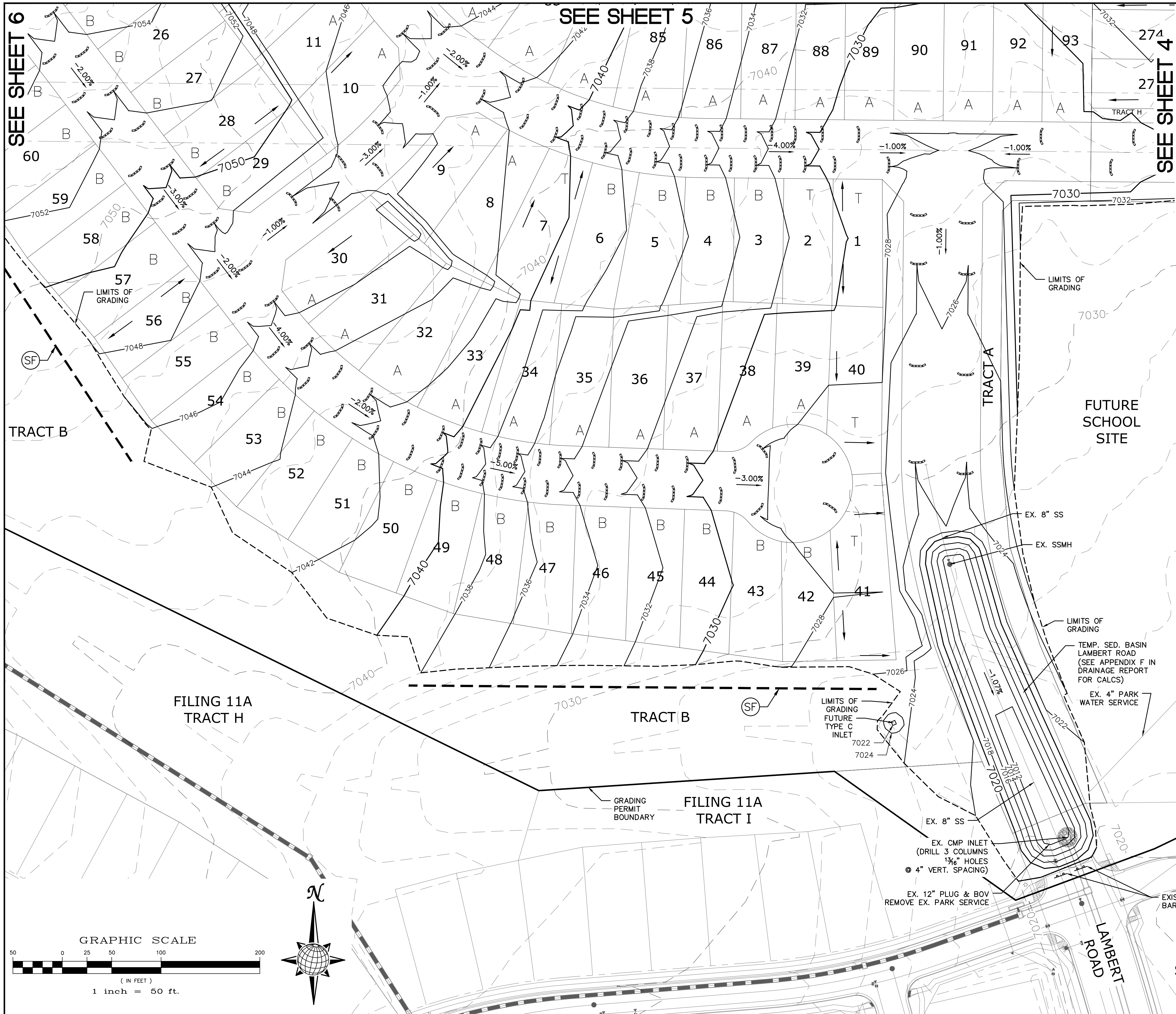
NOTE:

- 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-SEEDING OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDING 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.

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			



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 GRADING INDEX SHEET				Scale AS SHOWN				
Drawn by				Checked by				
Date				Date				
2 of 28				JAN 2020				



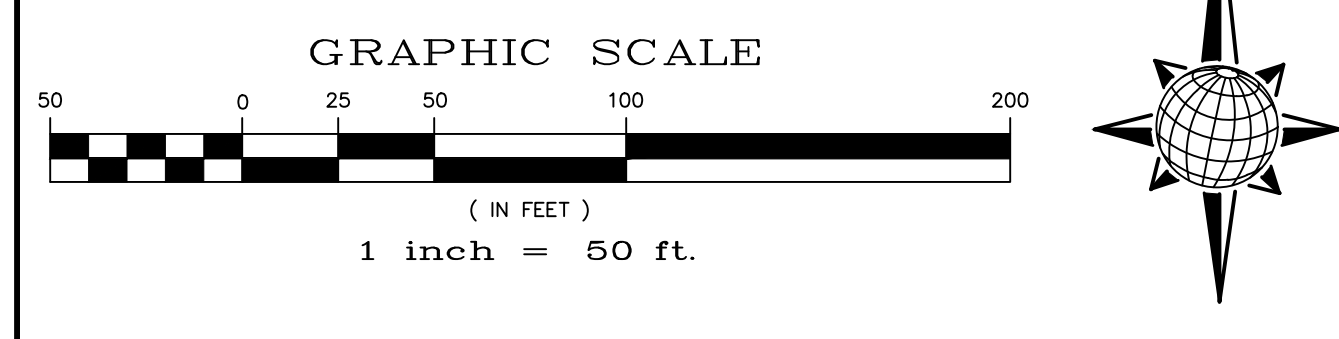
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N.T.S.

LEGEND

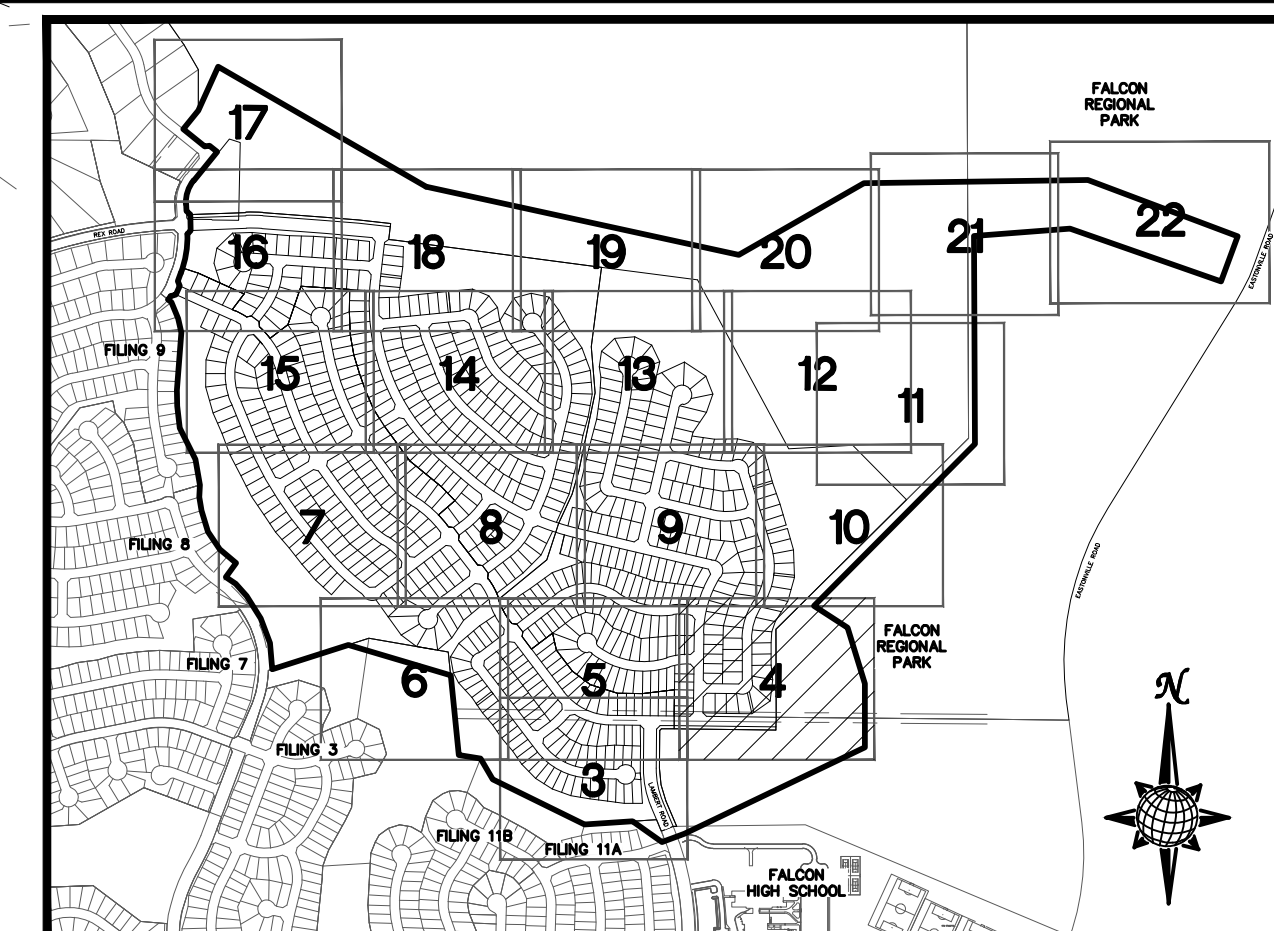
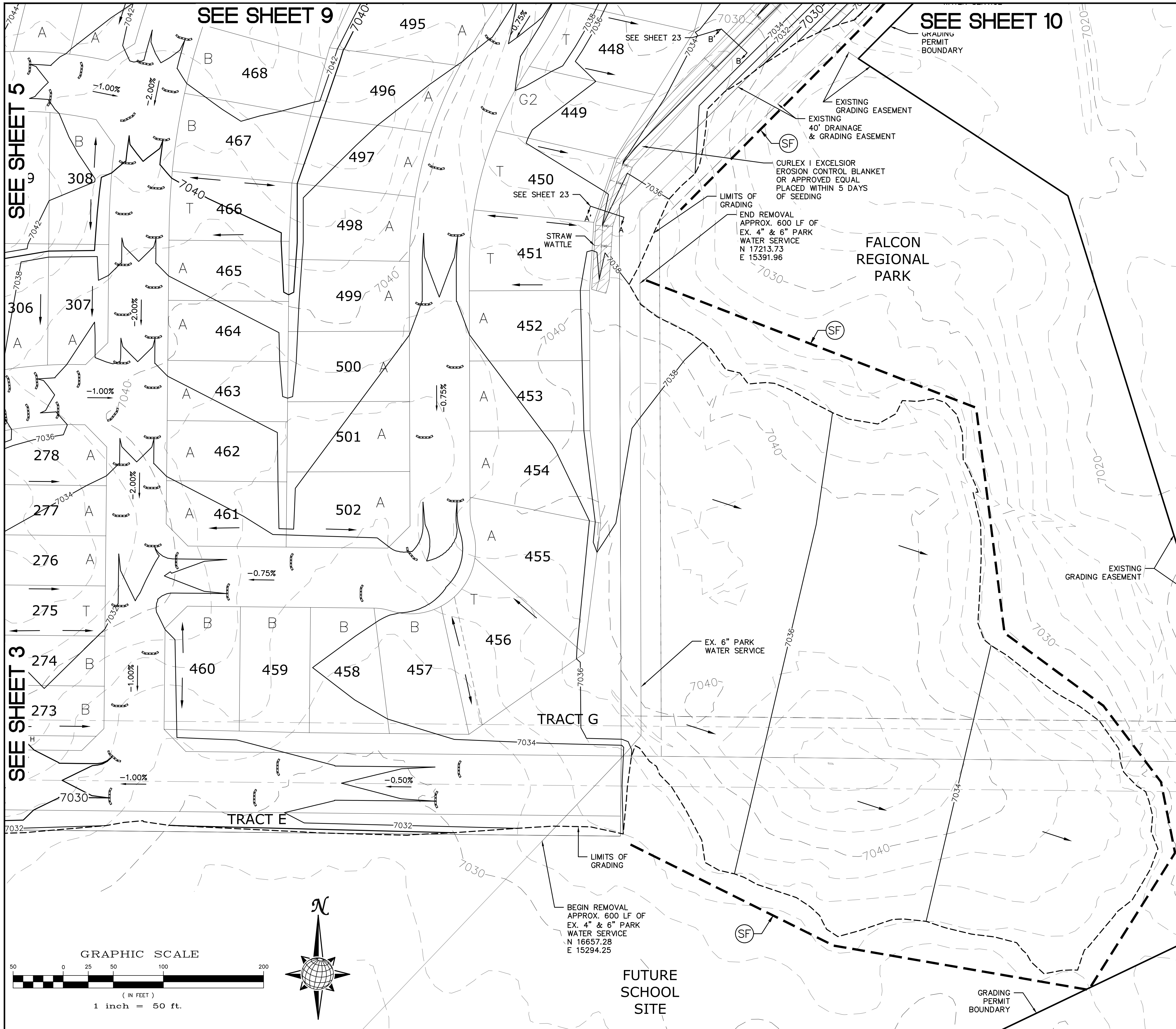
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	UTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 28
		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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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



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				JAN 2020
Scale	3 of 28			
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)				



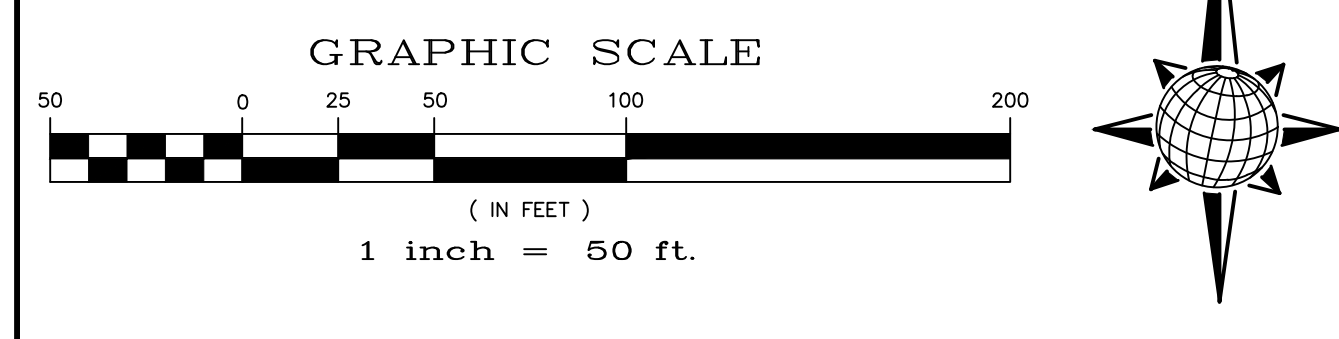
INDEX MAP
N.T.S.

LEGEND

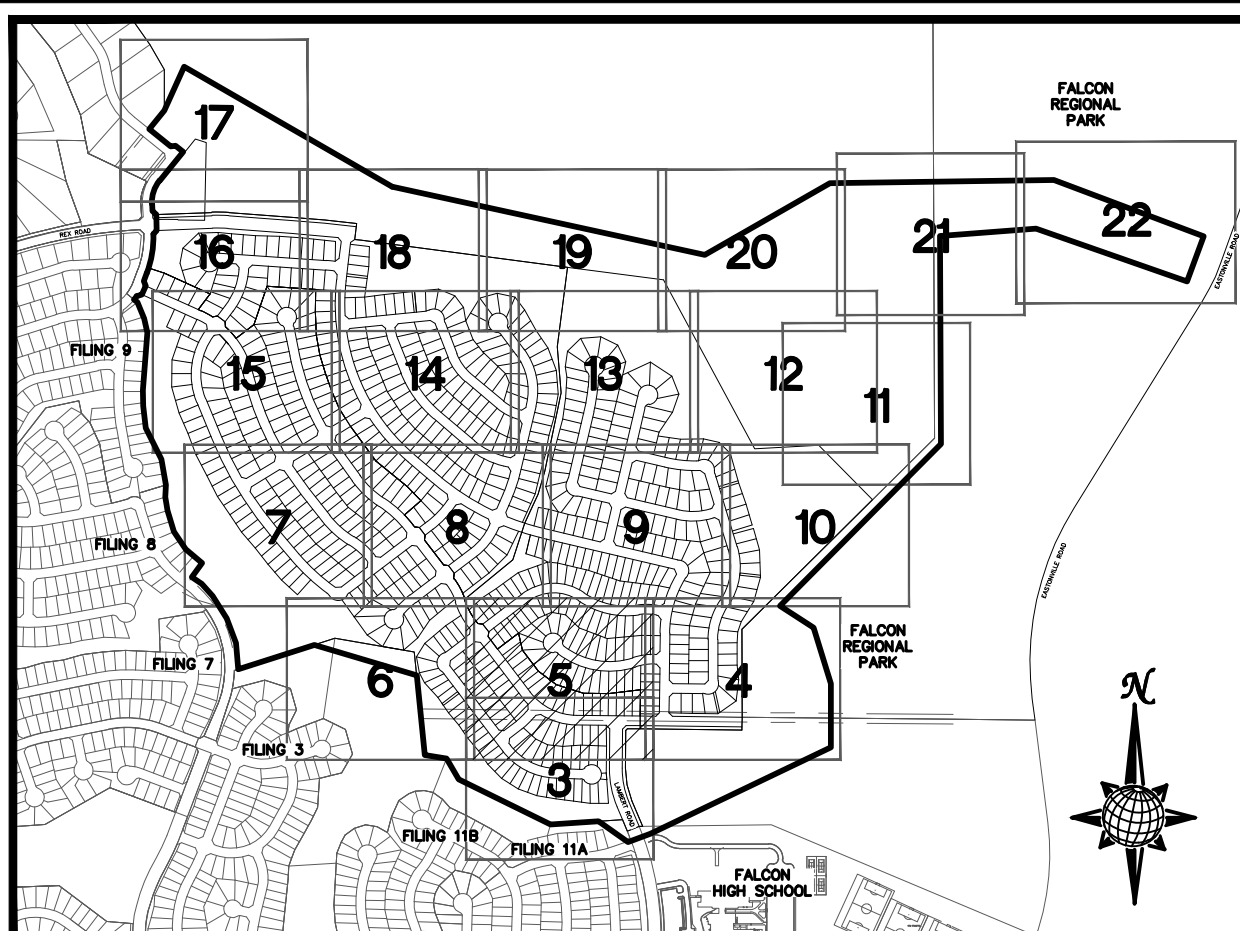
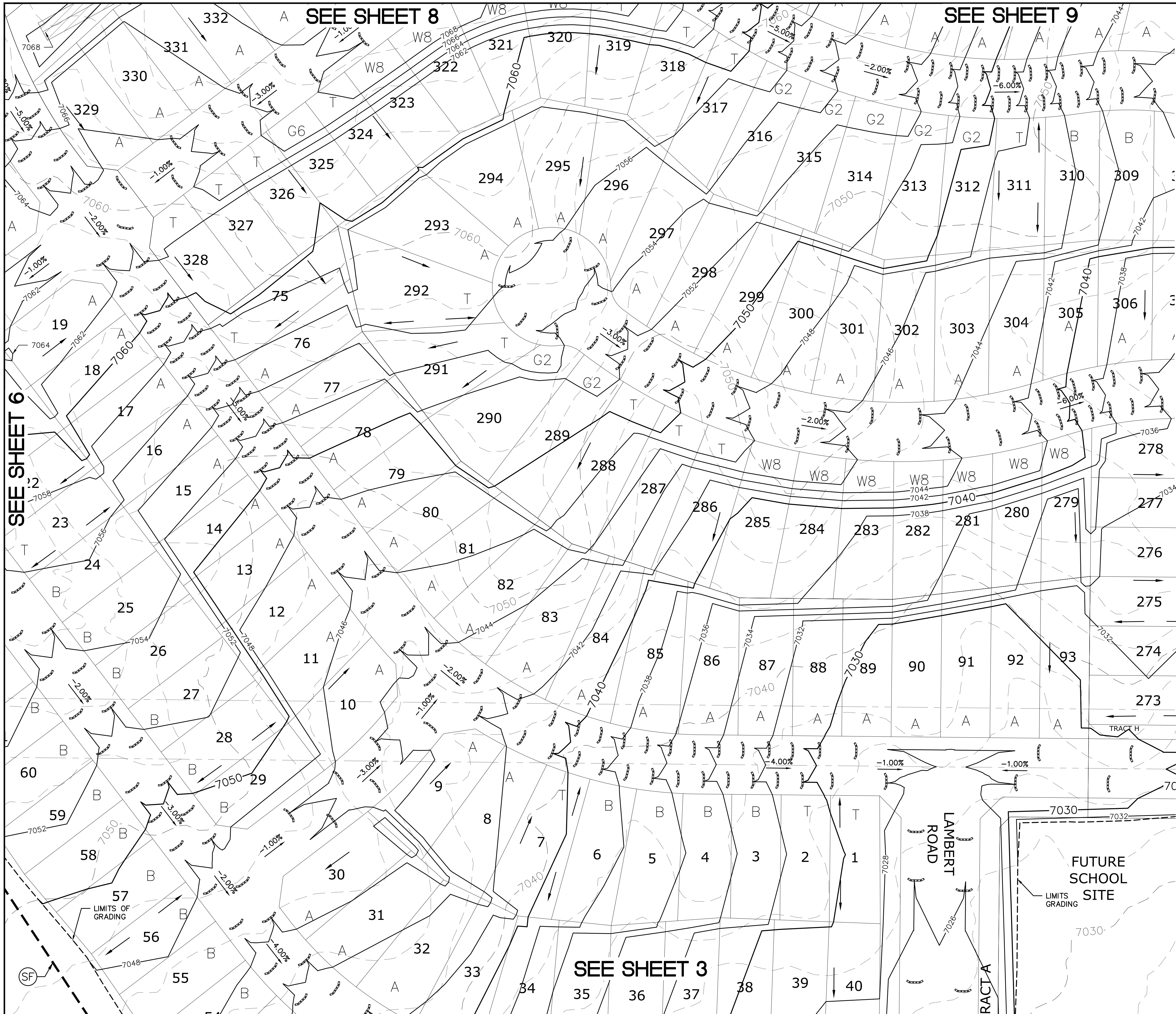
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
		RCP REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 28
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		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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8)MERIDIAN RANCH FILING 11A
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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				Revisions
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				JAN 2020
Scale	4	of	28	
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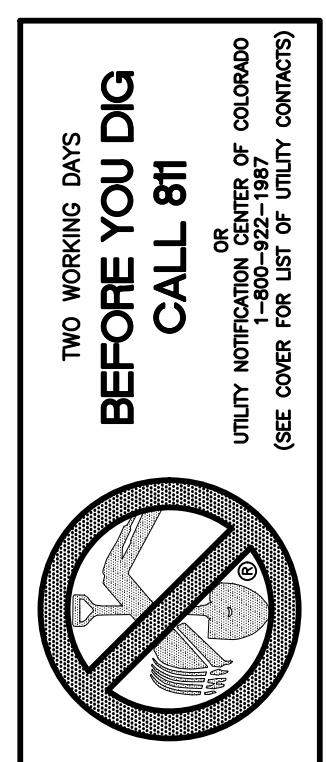


INDEX MAP
N.T.S.
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	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 28
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

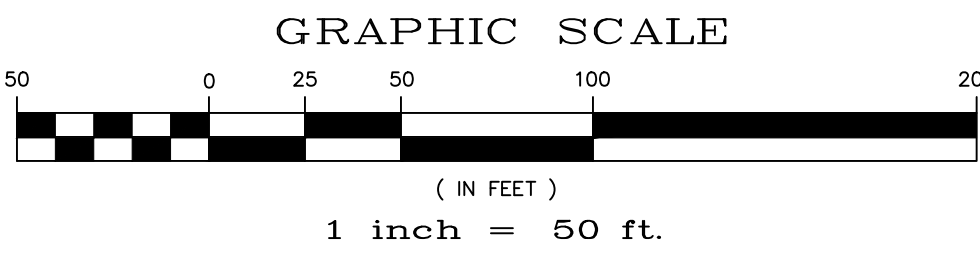
SEE SHEET 4

SEE SHEET 6

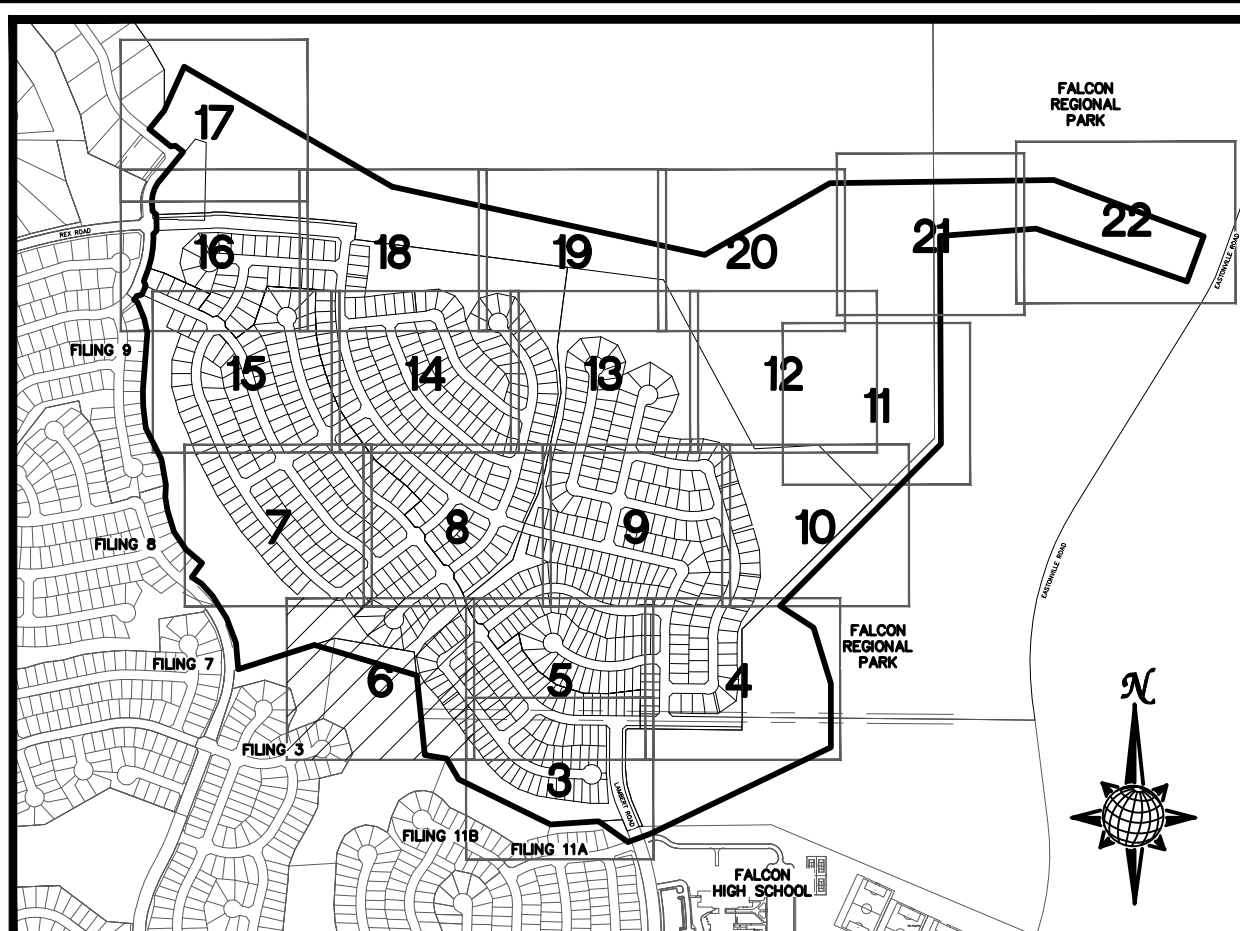
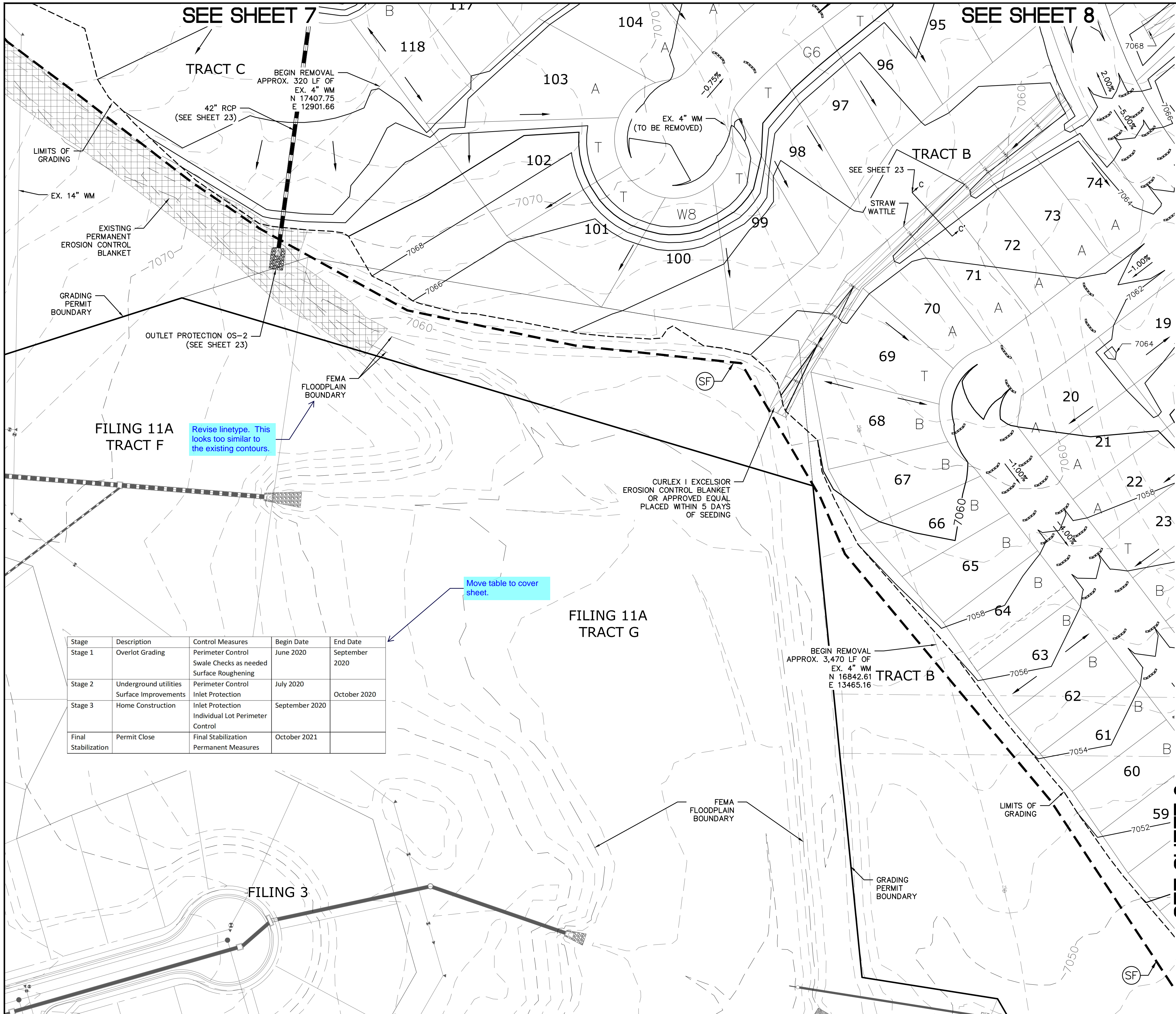


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10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



1	2	3	4	No.	Revisions	Date	Init.	Appr.	Date
<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					
Scale	AS SHOWN		5	of	28				
<p>PCD PROJECT NO. PUDSP-199</p>									



INDEX MAP
N.T.S.
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	IP	INLET PROTECTION PER DETAIL SHEET 28
		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 5

SEE SHEET 3

Stage	Description	Control Measures	Begin Date	End Date
Stage 1	Overlot Grading	Perimeter Control Swale Checks as needed Surface Roughening	June 2020	September 2020
Stage 2	Underground utilities Surface Improvements	Perimeter Control Inlet Protection	July 2020	October 2020
Stage 3	Home Construction	Inlet Protection Individual Lot Perimeter Control	September 2020	
Final Stabilization	Permit Close	Final Stabilization Permanent Measures	October 2021	

Revise linetype. This looks too similar to the existing contours.

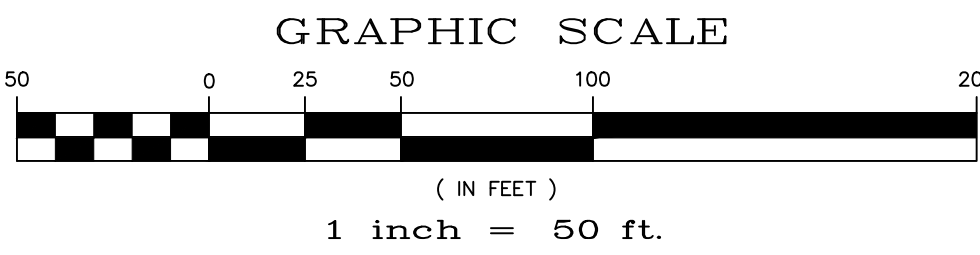
Move table to cover sheet.

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.

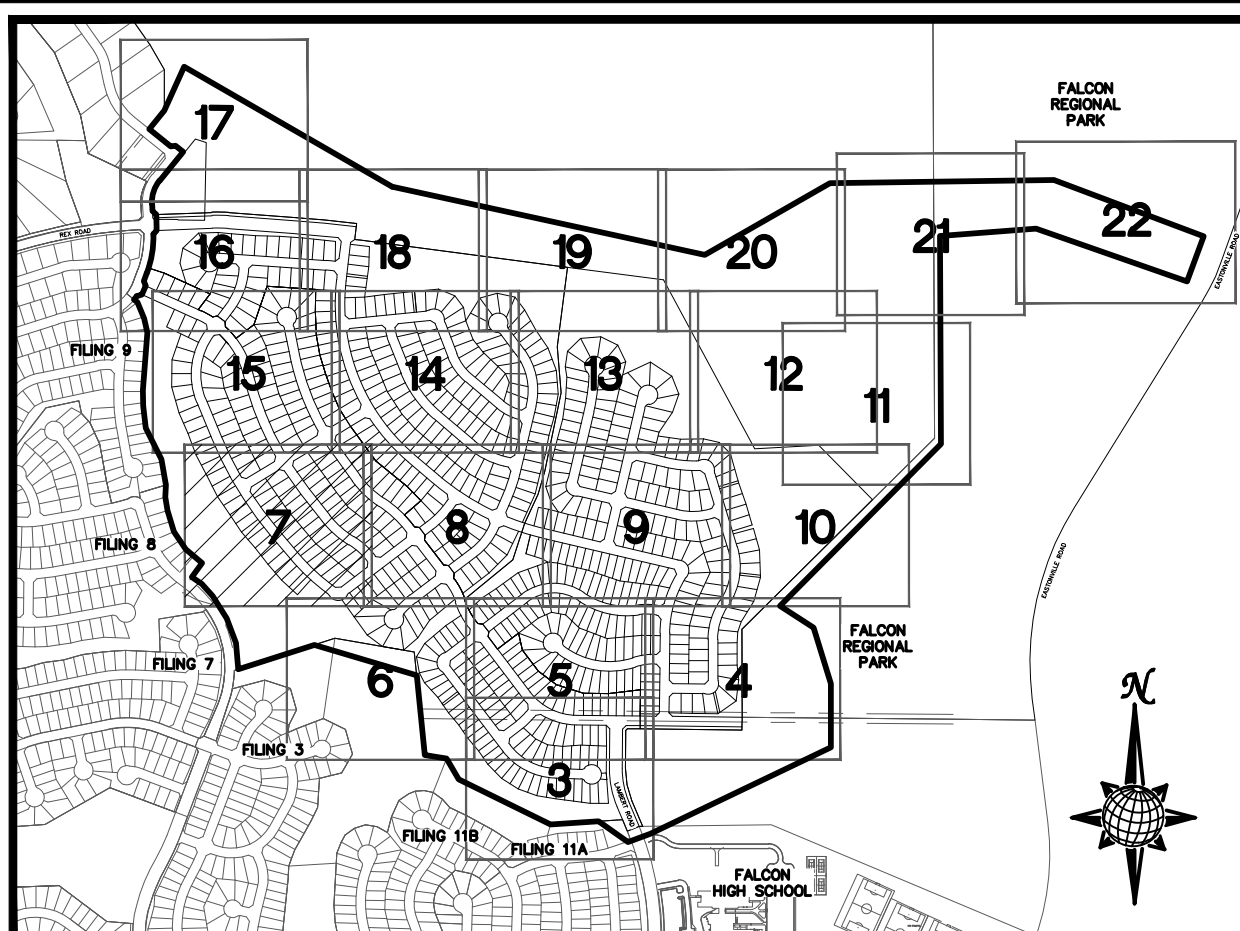
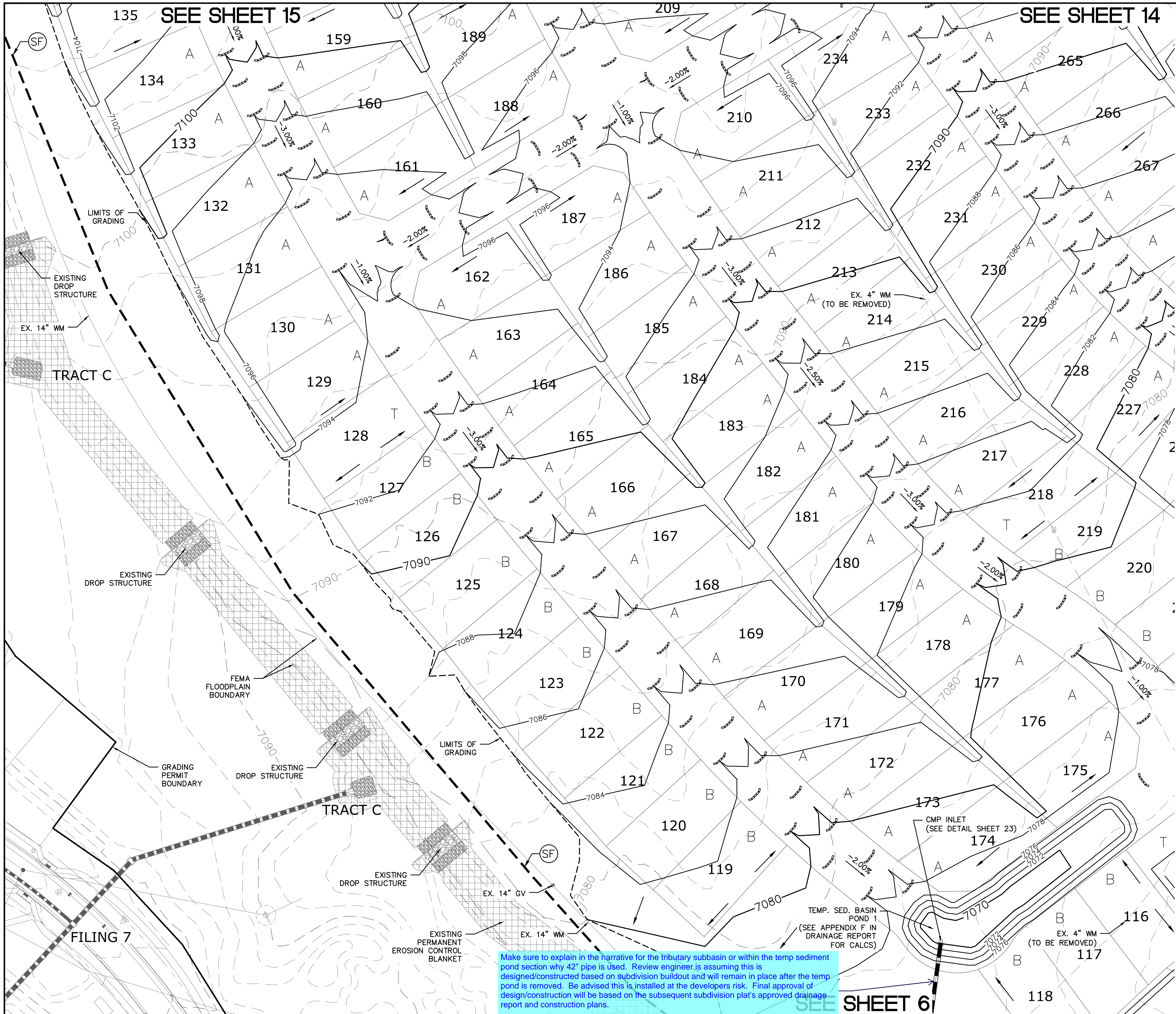
TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

MERIDIAN RANCH

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

Drawn by	LOG	Checked by	TAK	Date	JAN 2020
Scale	AS SHOWN	6	of	28	

PCD PROJECT NO. PUDSP-199

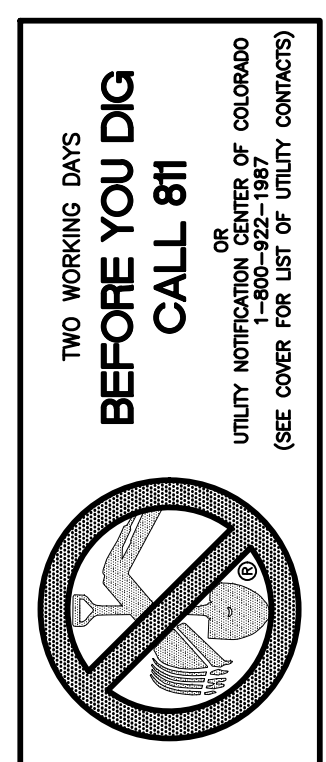


INDEX MAP
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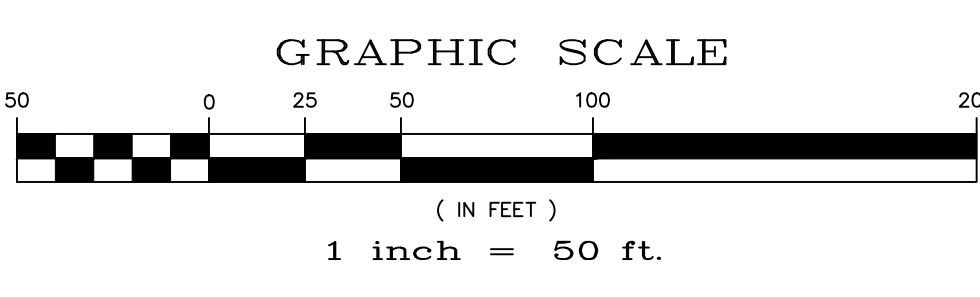
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
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		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')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

SEE SHEET 8



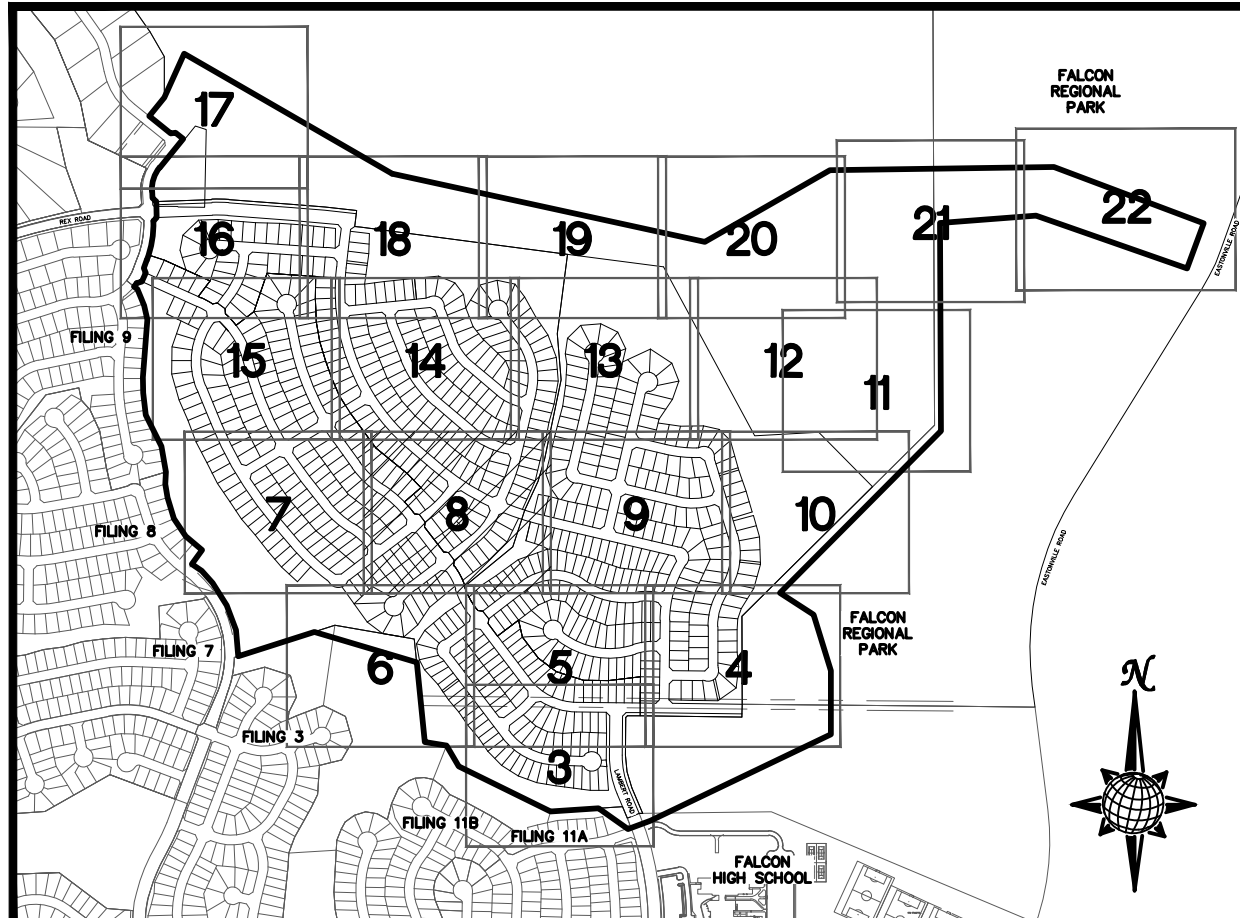
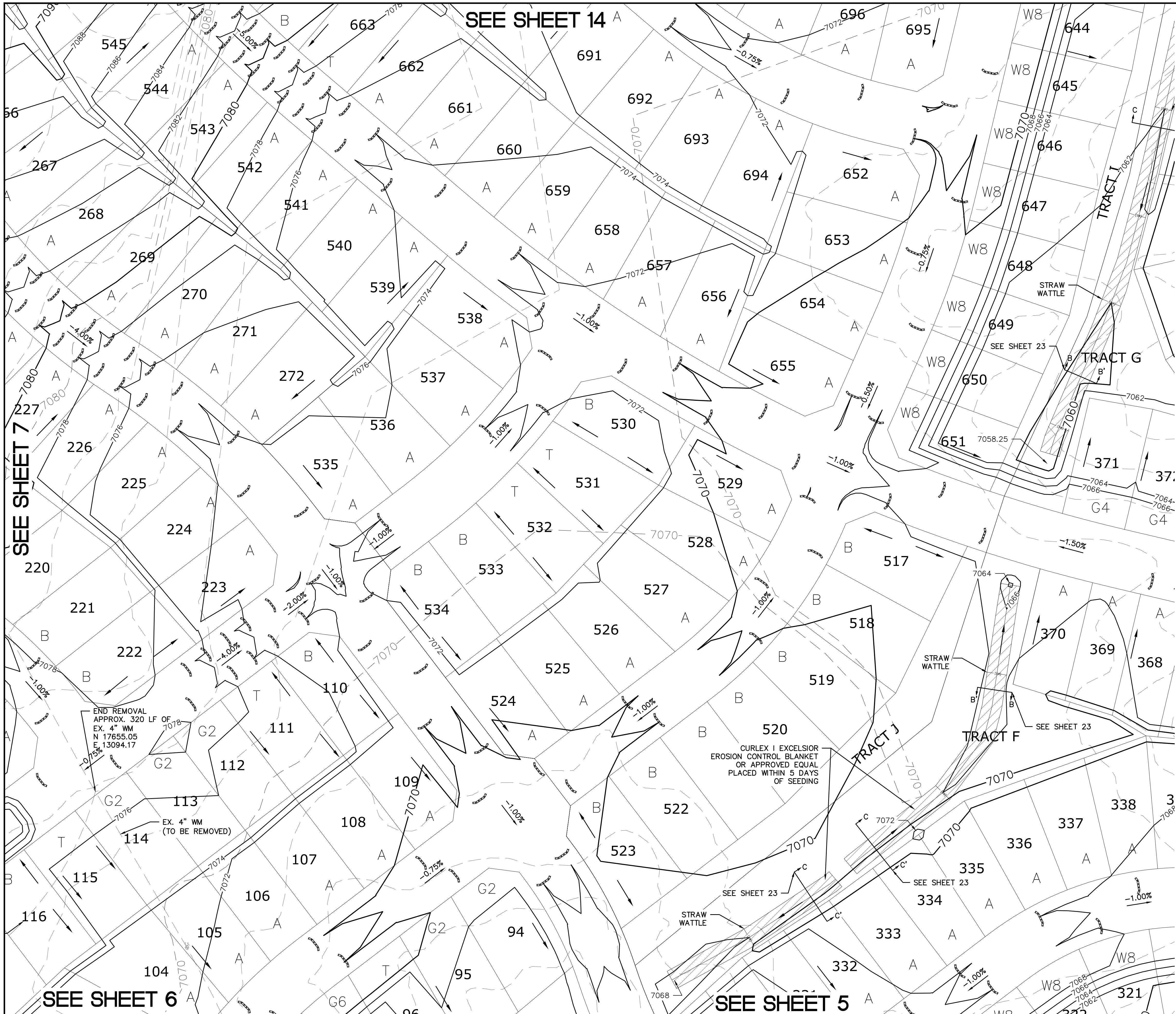
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 - MERIDIAN RANCH FILING 3
 - MERIDIAN RANCH FILING 11A
 - MERIDIAN RANCH FILING 11B
 - LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
 - MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



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.

1	2	3	4	No.	Date	Revis.	Appr.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457							
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Drawn by	LOG	Checked by	TAK	Date	JAN 2020		
Scale	AS SHOWN	7	of	28			
PCD PROJECT NO. PUDSP-199							

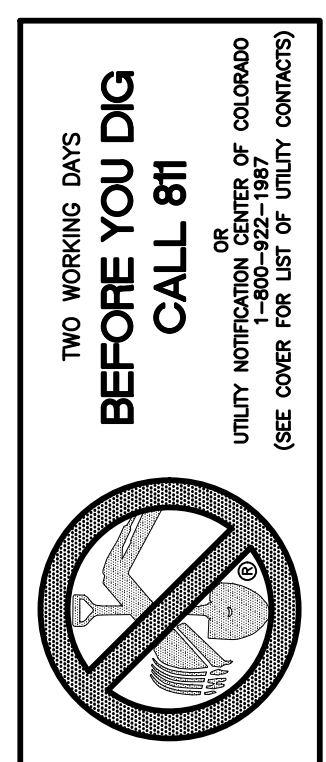


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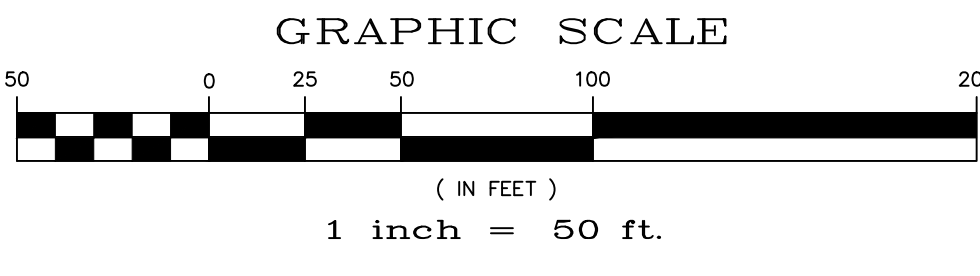
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		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

SEE SHEET 9

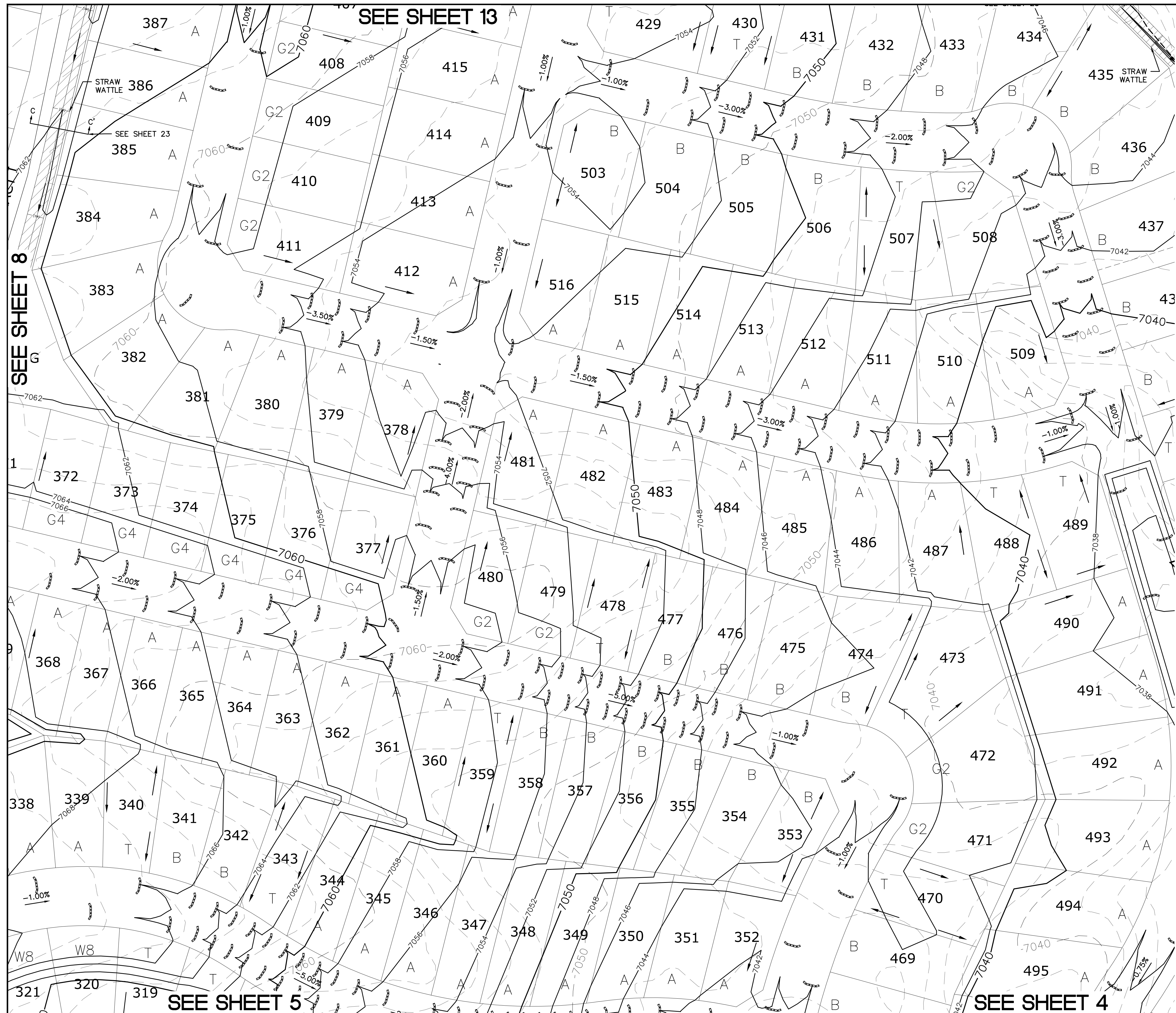


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1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
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Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				JAN 2020
Scale	8 of 28			
PCD PROJECT NO. PUDSP-199				



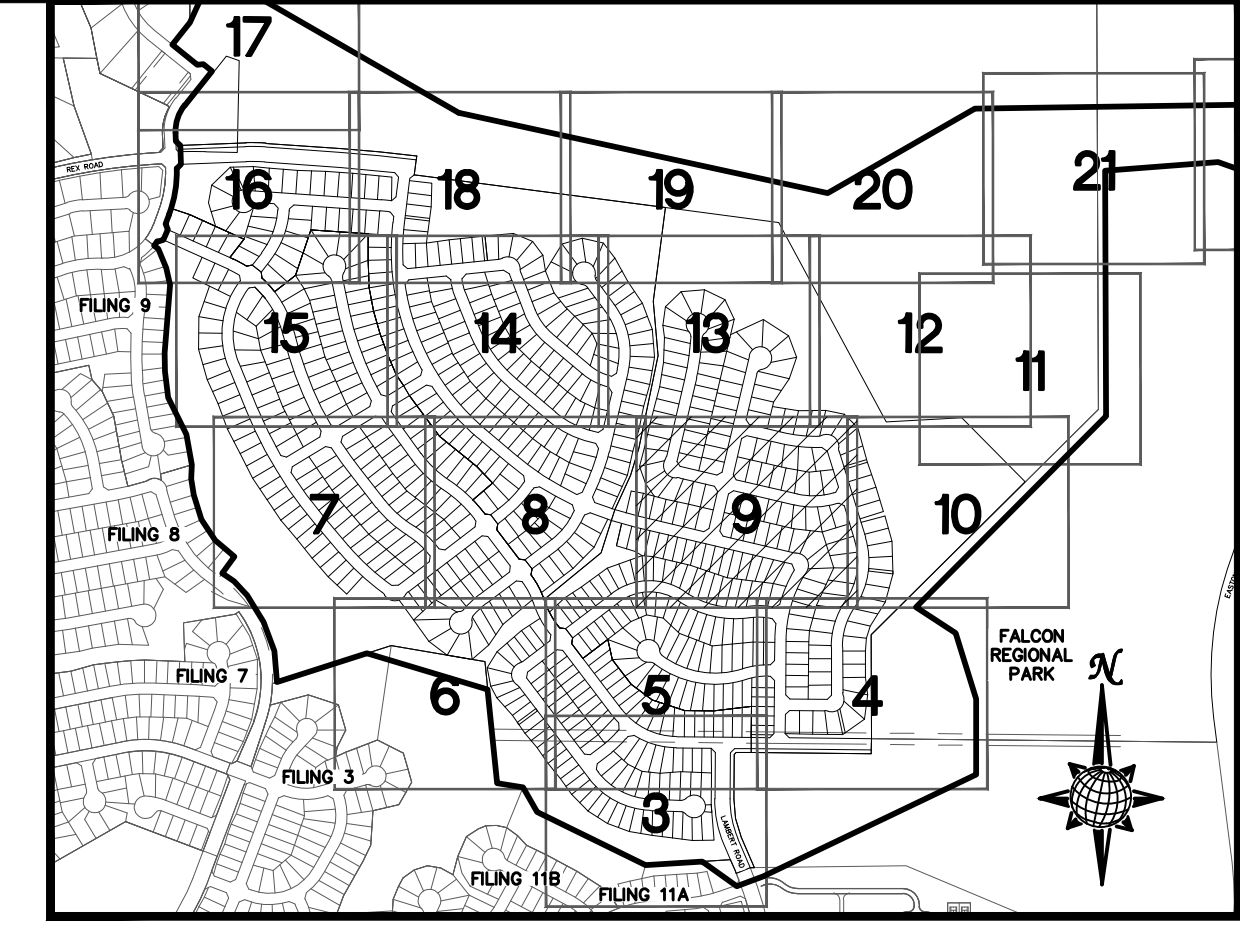
SEE SHEET 8

SEE SHEET 13

SEE SHEET 5

SEE SHEET 4

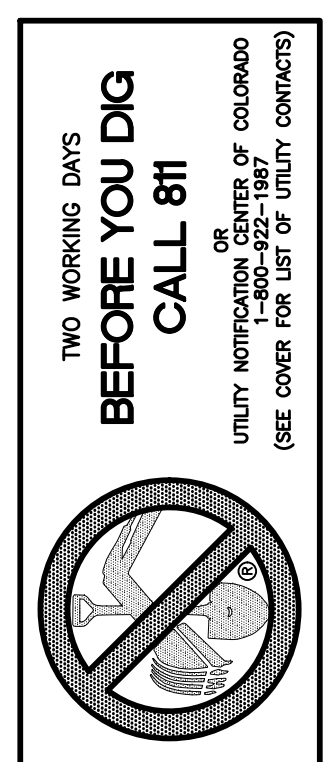
SEE SHEET 10



INDEX MAP
N.T.S.

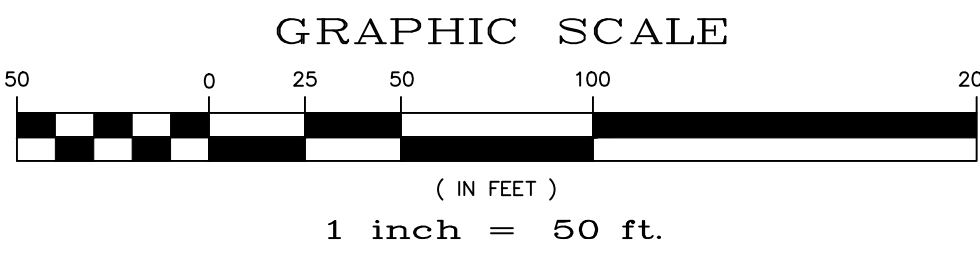
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SYMBOL	ACRONYM	DESCRIPTION
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		EROSION WATTLES PER DETAIL SHEET 28
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		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

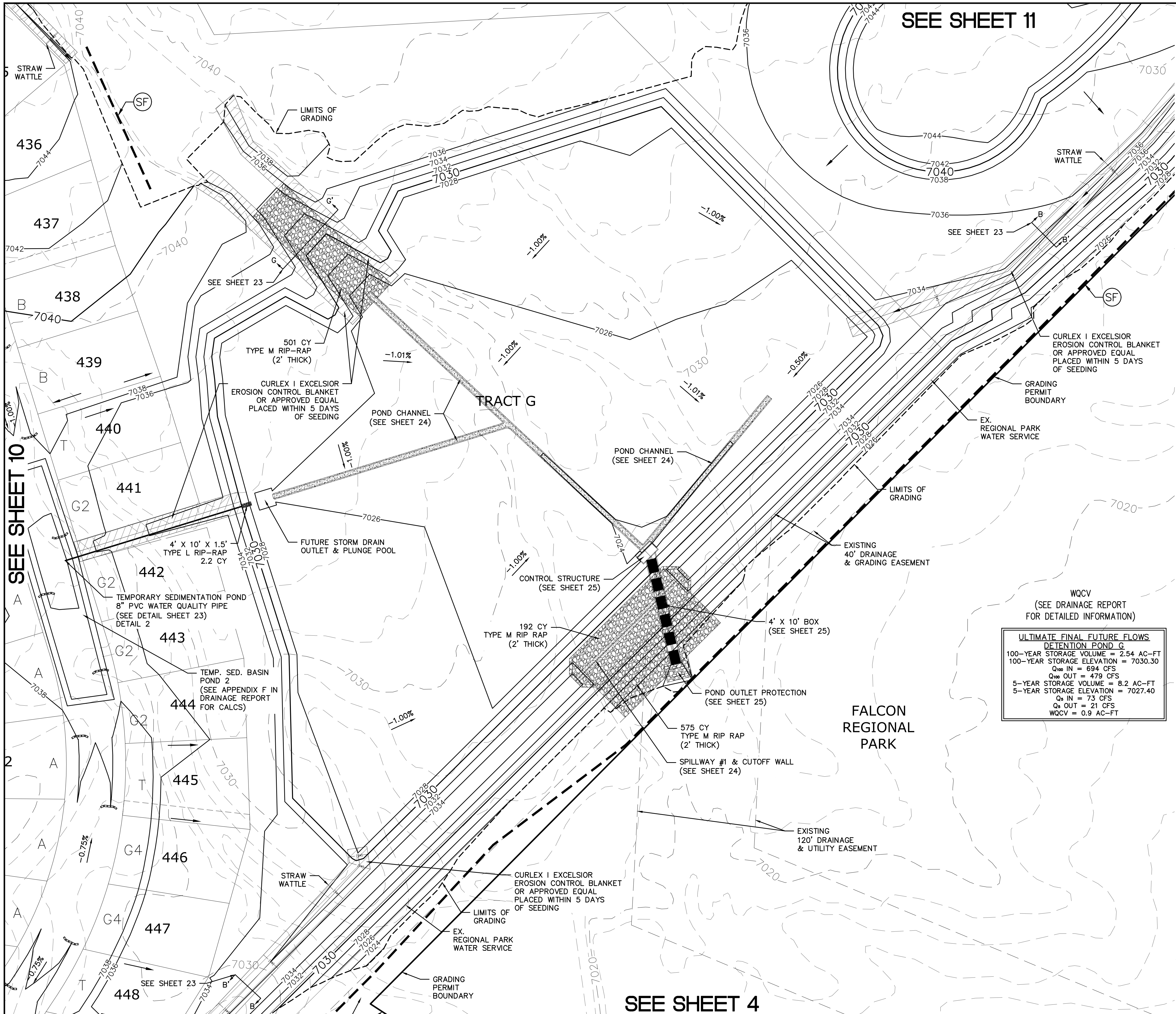


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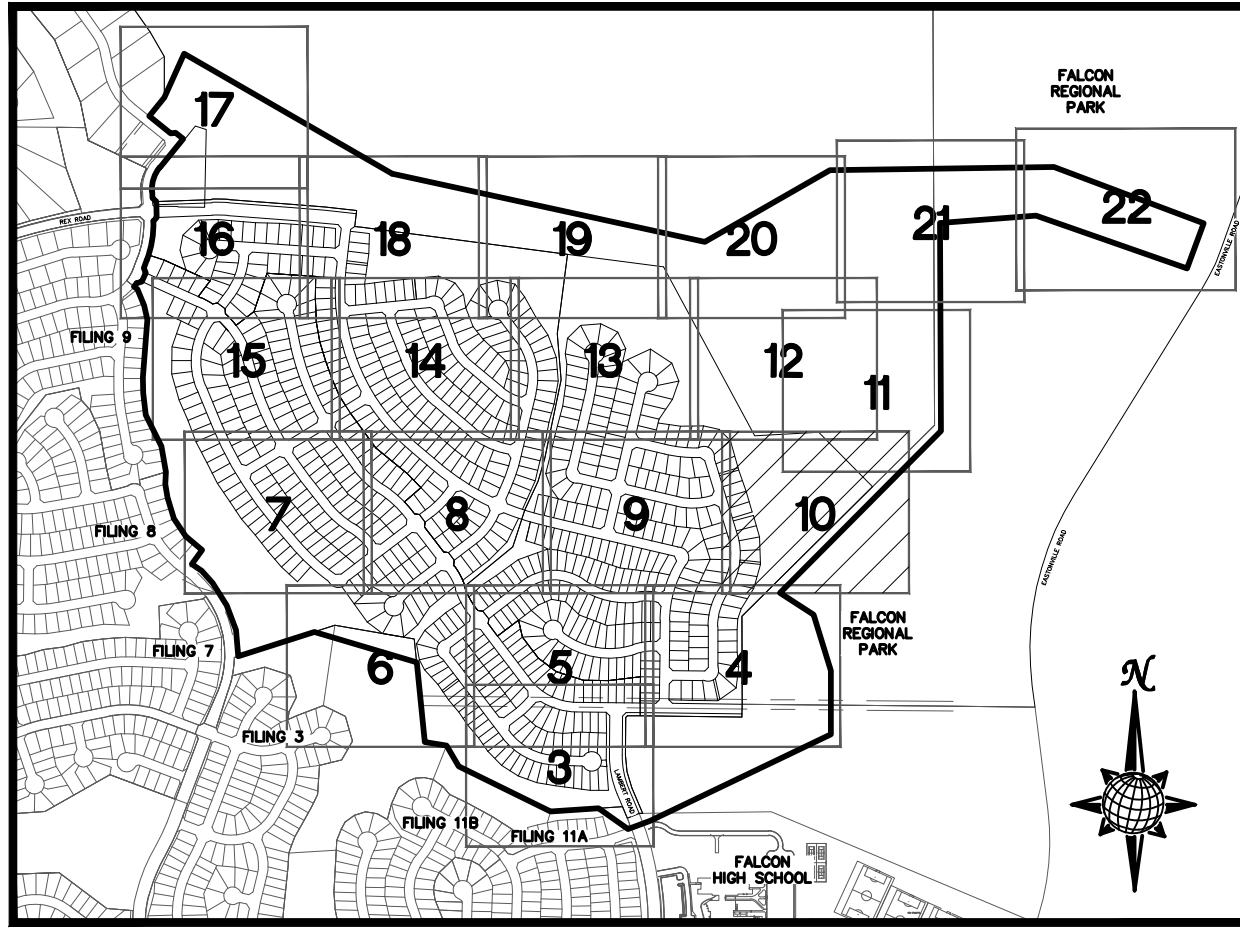
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Drawn by	LOG	Checked by	TAK	Date	JAN 2020	
Scale	AS SHOWN		9	of	28	
PCD PROJECT NO. PUDSP-199						



SEE SHEET 11

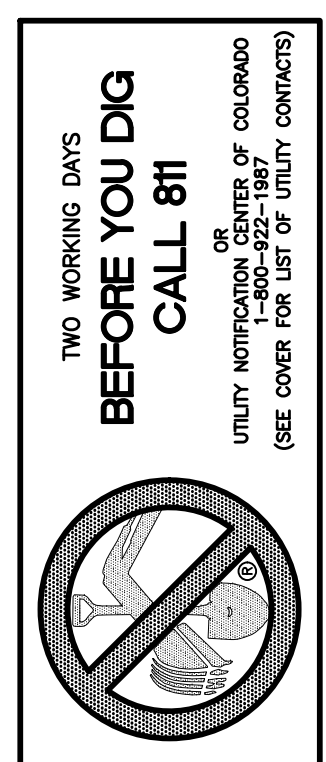


INDEX MAP
N.T.S.
LEGEND

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		STRAW BALES
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		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

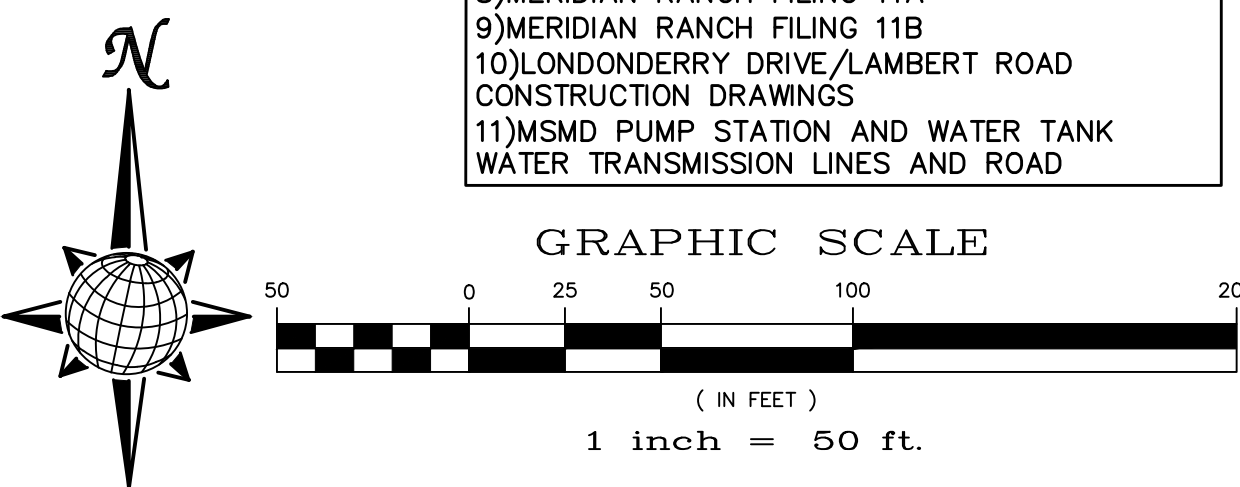
WQCV
(SEE DRAINAGE REPORT FOR DETAILED INFORMATION)

ULTIMATE FINAL FUTURE FLOWS	
DETENTION POND G	
100-YEAR STORAGE VOLUME =	2.54 AC-FT
100-YEAR STORAGE ELEVATION =	7030.30
Q ₁₀₀ IN =	694 CFS
Q ₁₀₀ OUT =	479 CFS
5-YEAR STORAGE VOLUME =	8.2 AC-FT
5-YEAR STORAGE ELEVATION =	7027.40
Q ₅ IN =	73 CFS
Q ₅ 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 27.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
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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

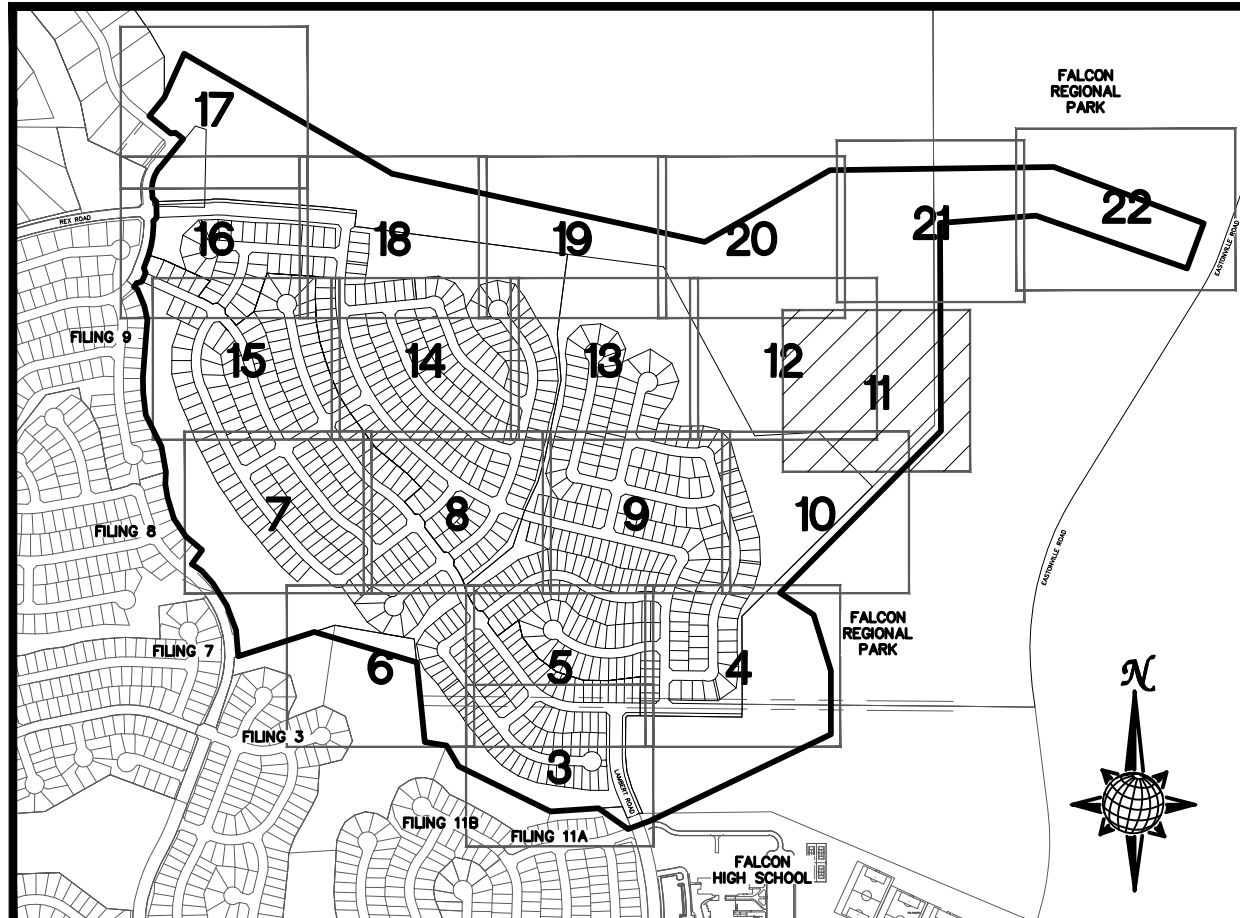
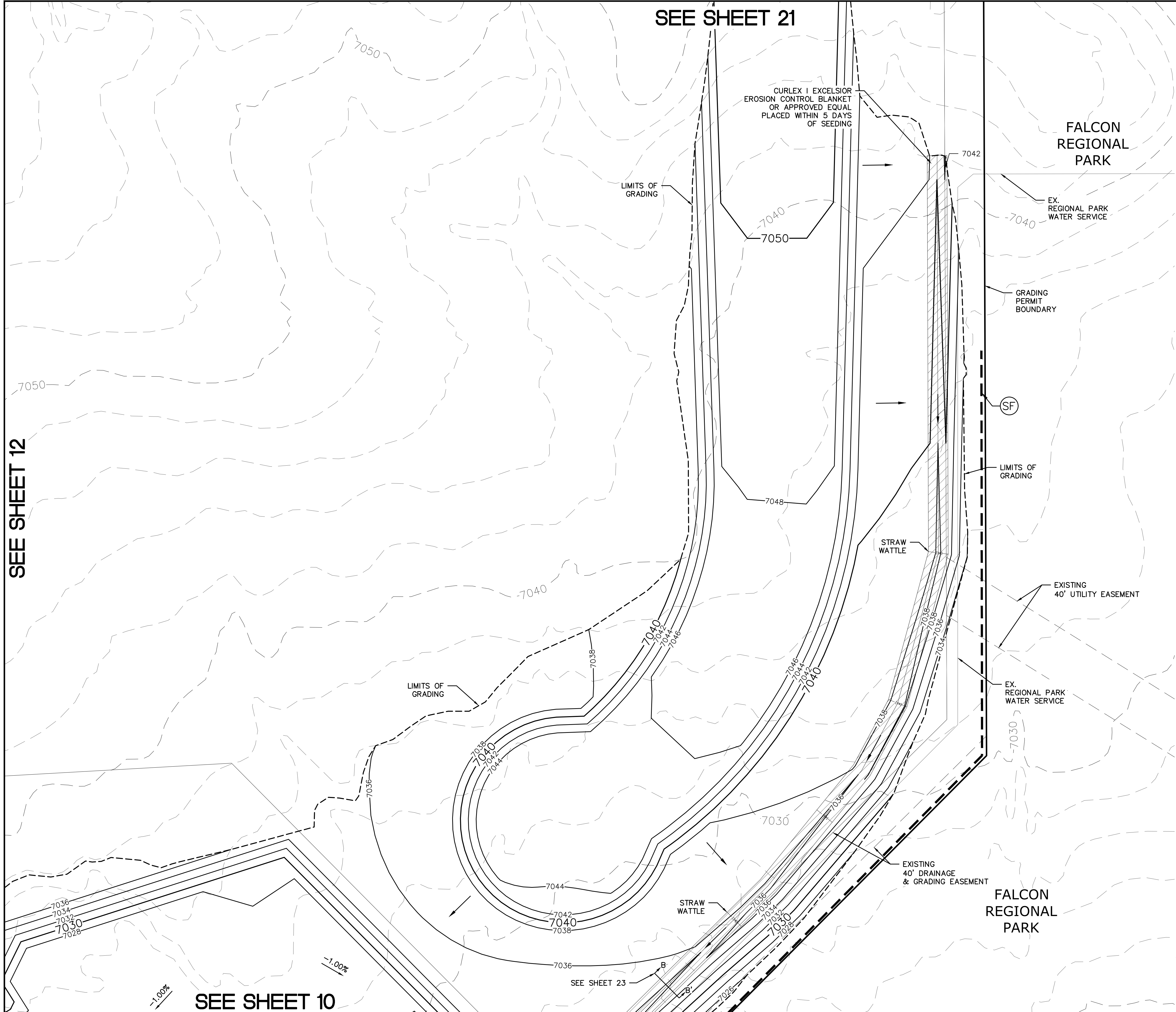


1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN		10	of	28
Scale	JAN 2020			

SEE SHEET 4

SEE SHEET 10

S:\architect\rolling hills\11886 Stapleton\11886 Rolling Hills Rough Grading.dwg, 2/26/2020 1:40:12 PM



LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		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 28
		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:
 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 27.

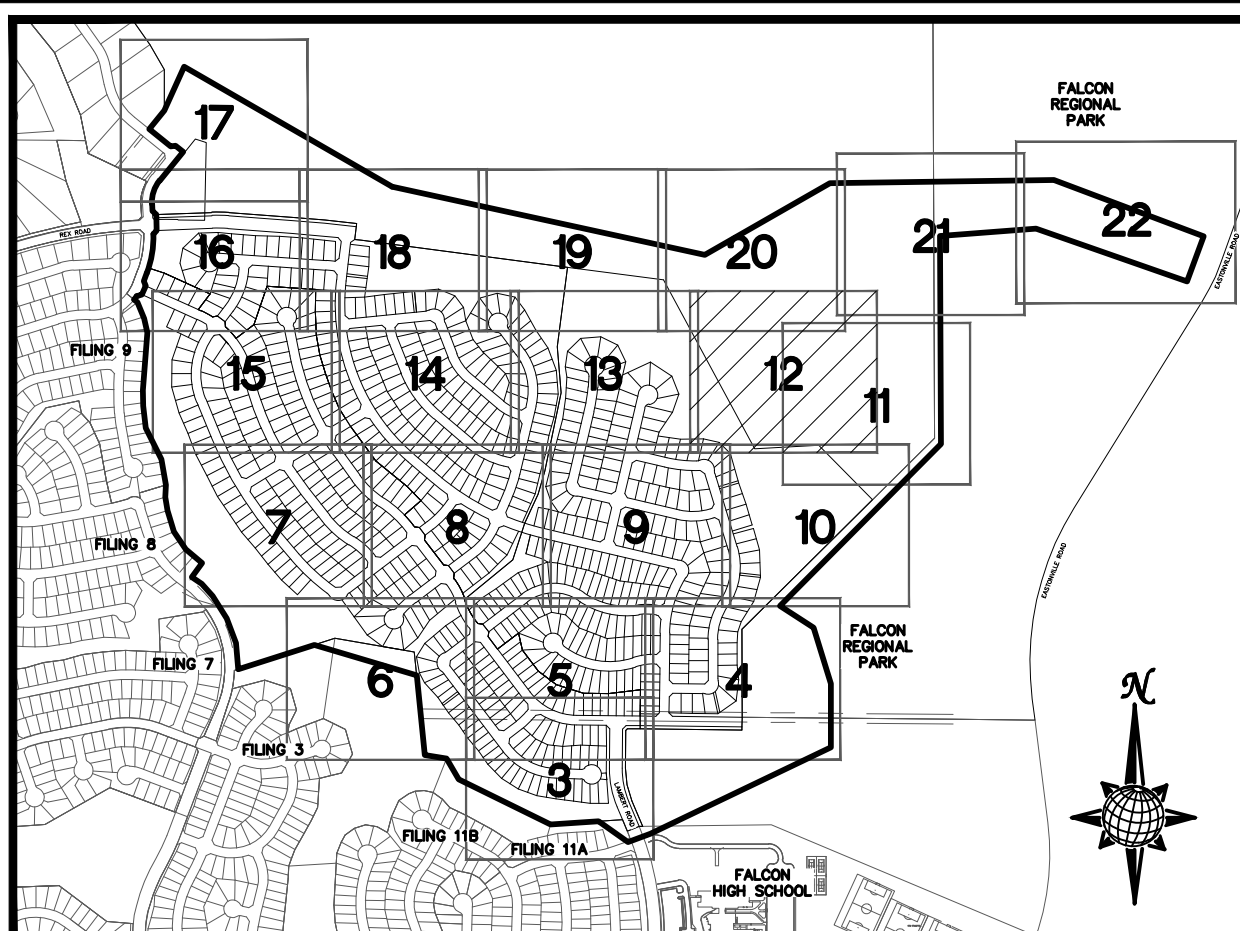
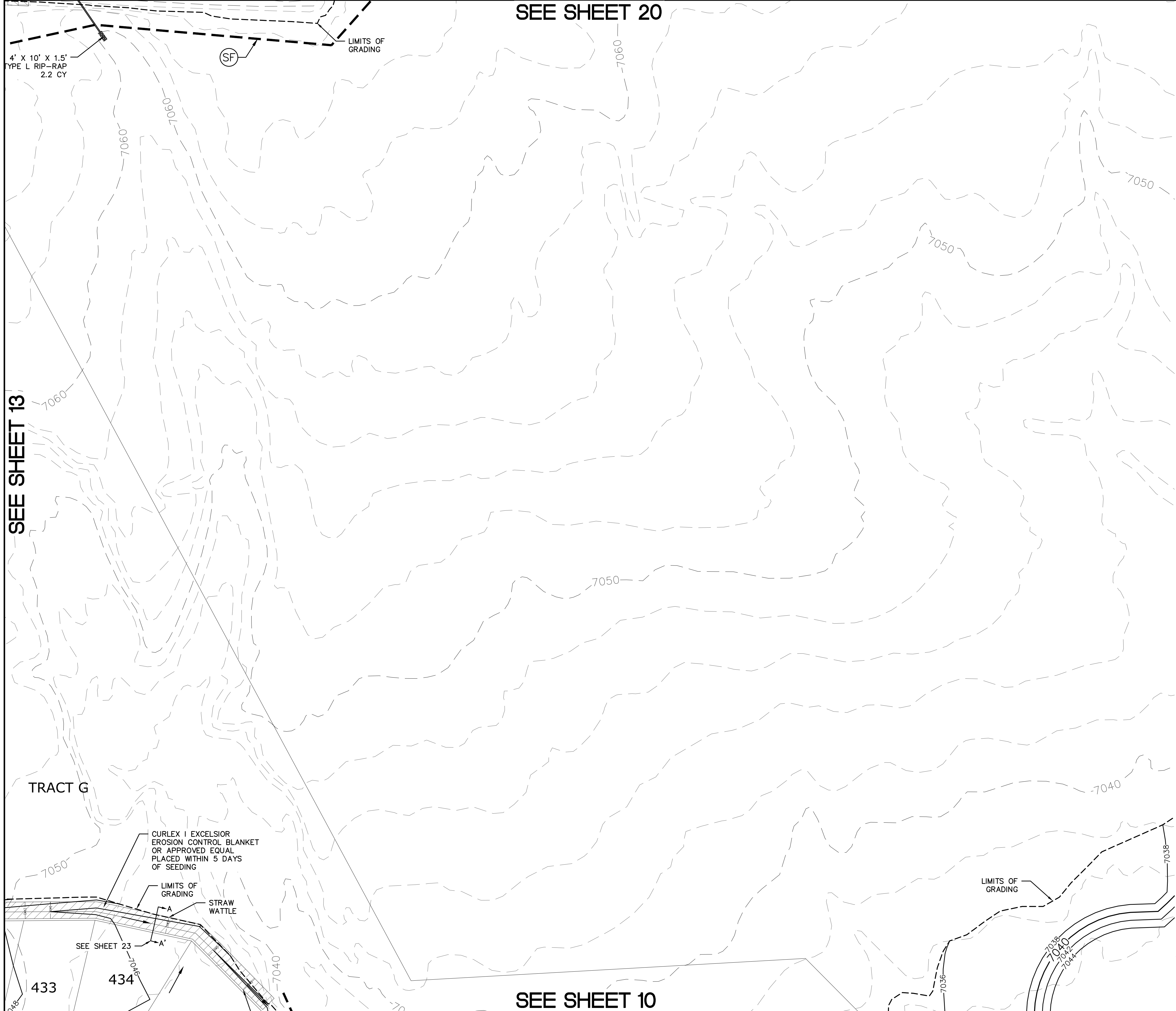
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
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 10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
 11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

BEFORE YOU DIG CALL 811
 TWO WORKING DAYS
 UTILITY NOTIFICATION CENTER OF COLORADO
 1-800-922-1887
 (SEE COVER FOR LIST OF UTILITY CONTRACTORS)

GRAPHIC SCALE
 0 25 50 100 200
 (IN FEET)
 1 inch = 50 ft.

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>MERIDIAN RANCH</p>							
<p>ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET</p>							
Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK	Date	JAN 2020
						11 of 28	

SEE SHEET 20



INDEX MAP
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		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 28
		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.

SEE SHEET 11

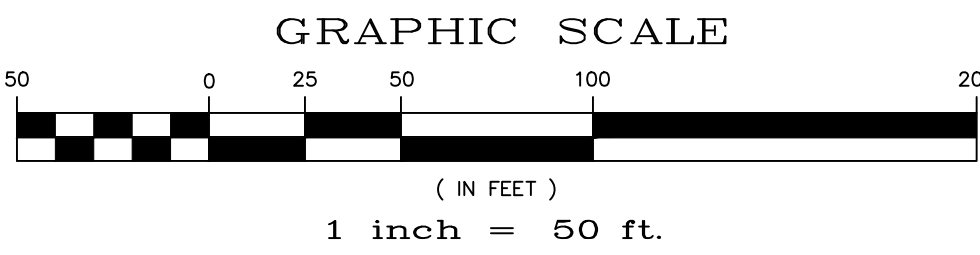
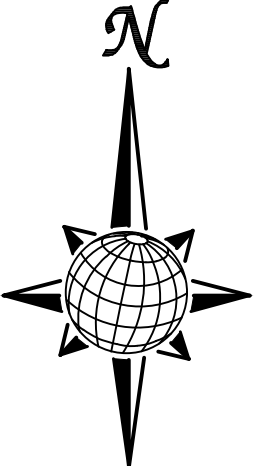
SEE SHEET 13

TWO WORKING DAYS
BEFORE YOU DIG
CALL 811

UTILITY NOTIFICATION CENTER OF COLORADO
1-800-992-1887
(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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



No.	Revisions	Date	Init.	Appr.	Date
1					
2					
3					
4					

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



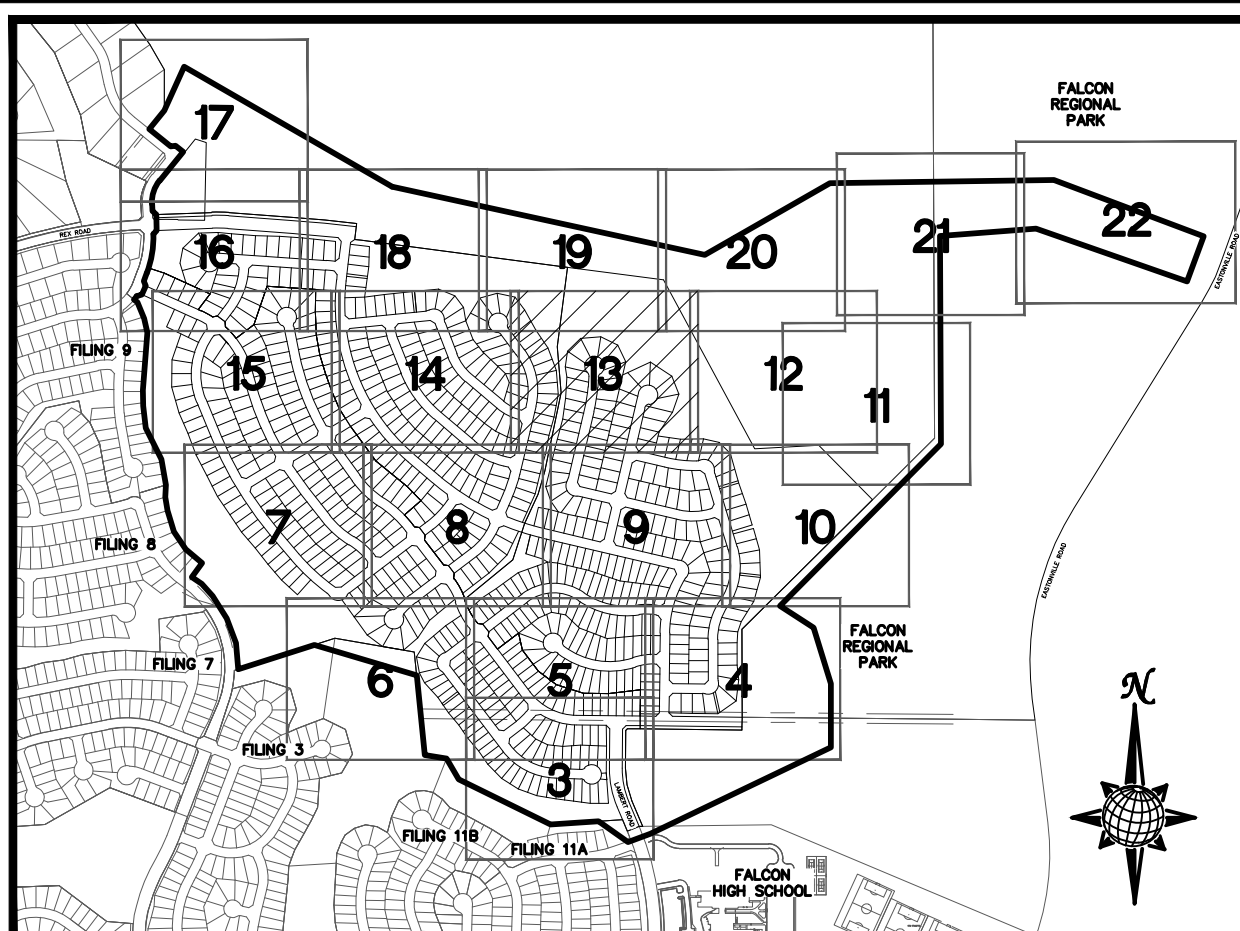
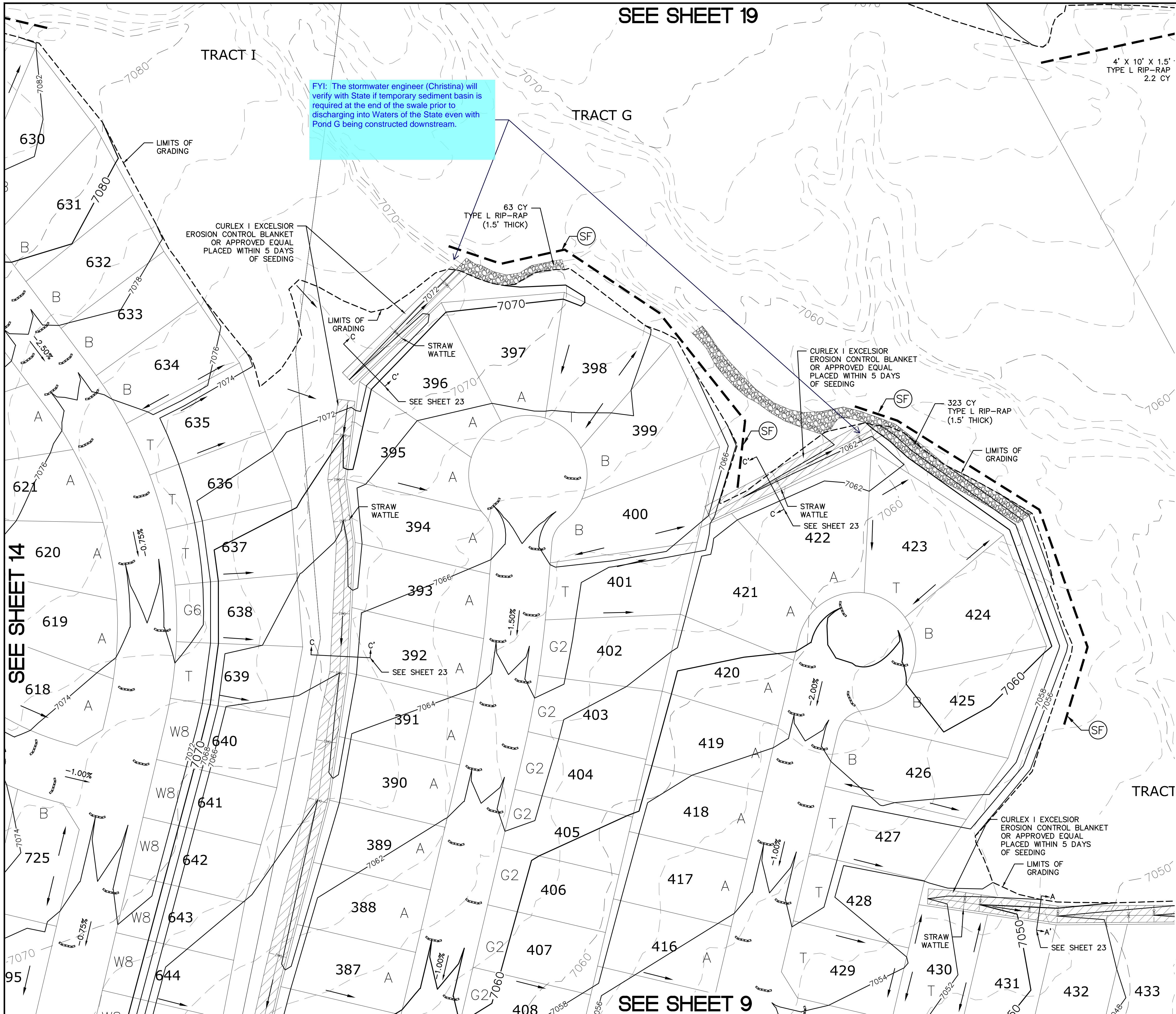
ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING/EROSION
CONTROL PLAN
PLAN SHEET

Drawn by	LOG	Checked by	TAK	Date	JAN 2020
Scale	AS SHOWN			12 of 28	

SEE SHEET 10

SEE SHEET 19

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.



INDEX MAP N.T.S. LEGEND

SYMBOL	ACRONYM	DESCRIPTION
[Symbol]		STRAW BALES
[Symbol]		EROSION WATTLES PER DETAIL SHEET 28
[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]	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
[Symbol]	IP	INLET PROTECTION PER DETAIL SHEET 28
[Symbol]		LIMITS OF GRADING
[Symbol]		EXISTING CONTOUR (10')
[Symbol]		EXISTING CONTOUR (2')
[Symbol]		PROPOSED CONTOUR (10')
[Symbol]		PROPOSED CONTOUR (2')
[Symbol]		GRADE
[Symbol]		75
[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.

SEE SHEET 12

SEE SHEET 14

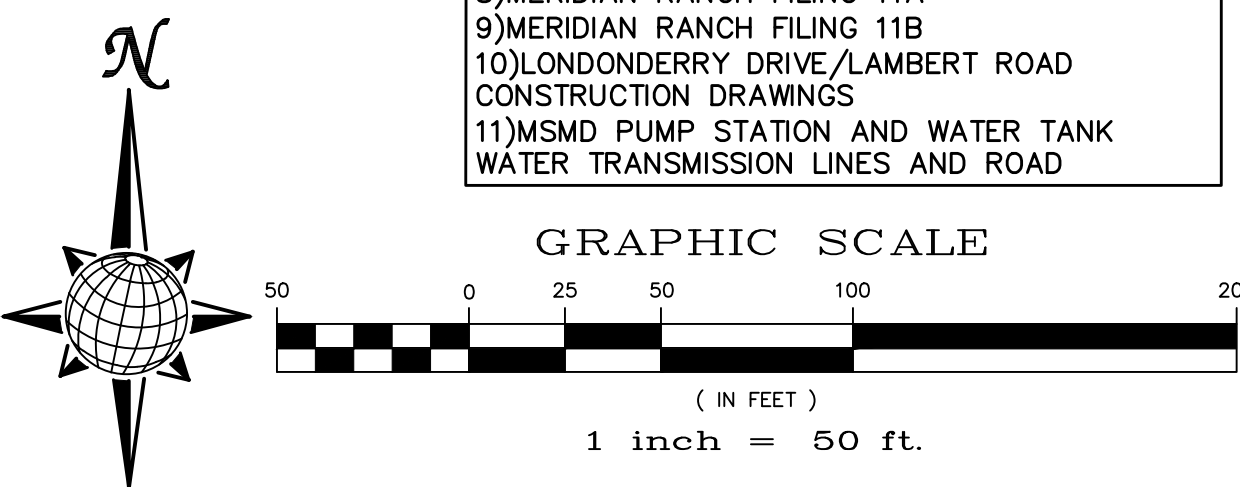
SEE SHEET 9

TWO WORKING DAYS BEFORE YOU DIG CALL 811

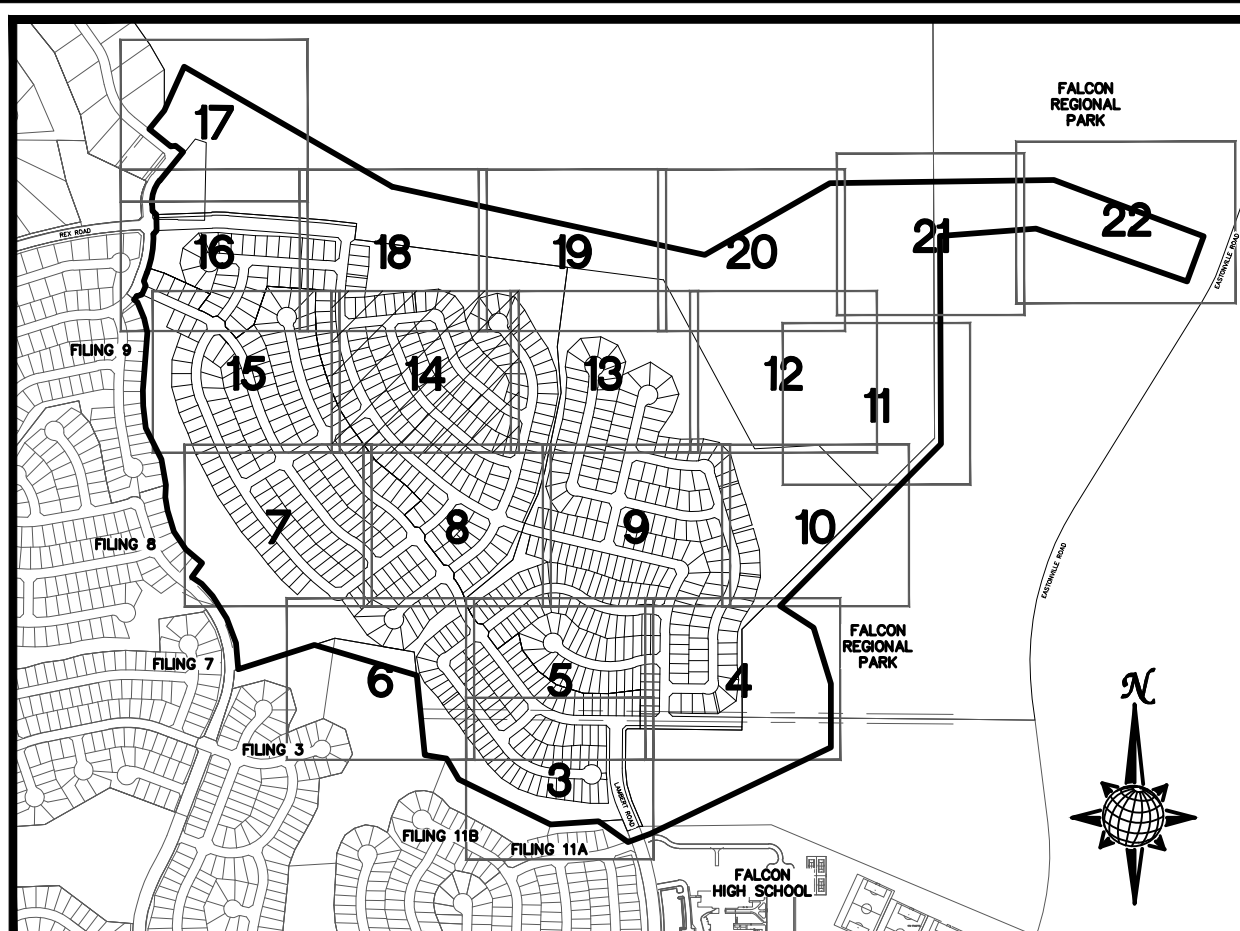
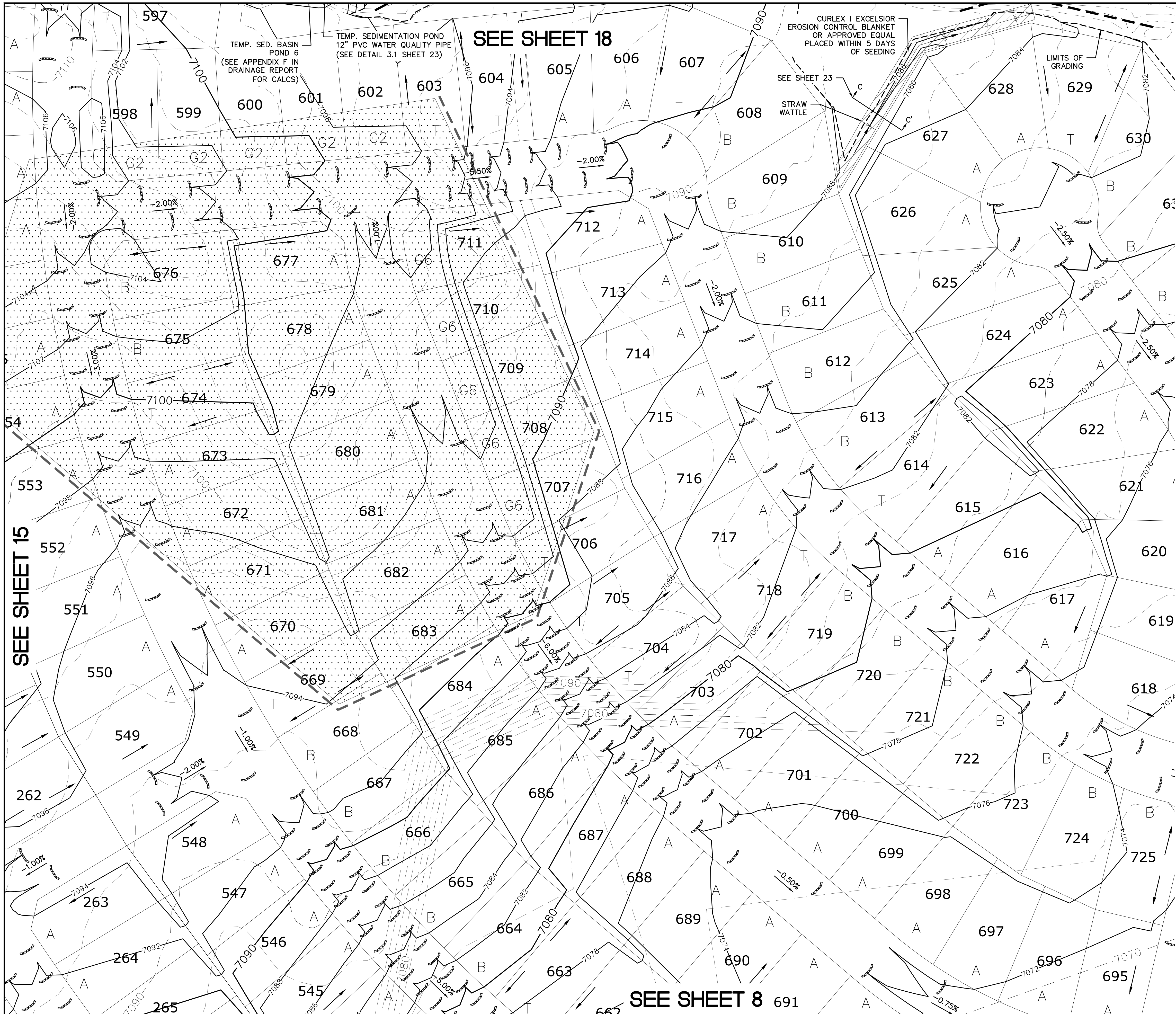
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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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							
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET							
Drawn by	LOG	Checked by	TAK	Date	JAN 2020		
Scale	AS SHOWN		13 of 28				

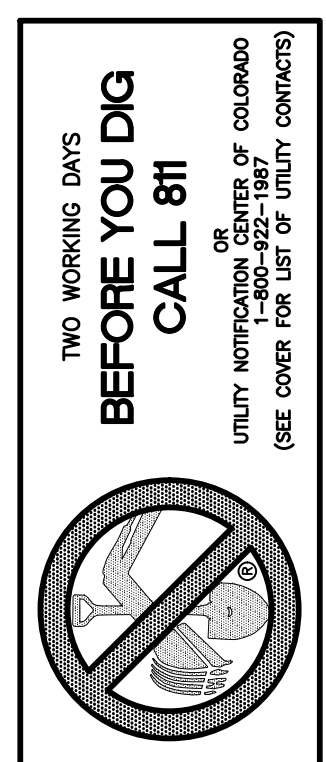


INDEX MAP
N.T.S.
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 28
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		75 LOT NUMBER
		A LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

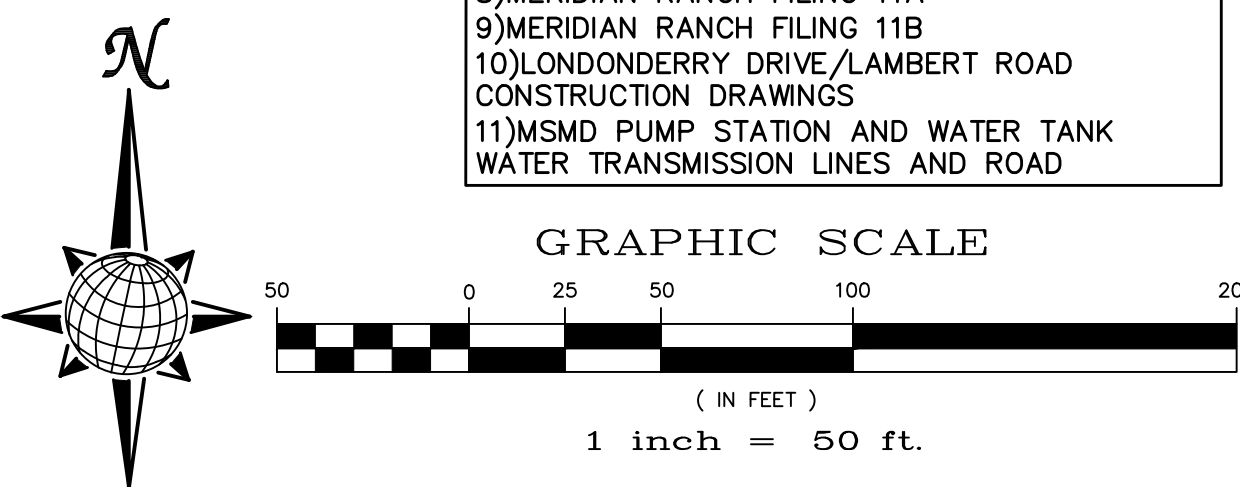
SEE SHEET 13

SEE SHEET 15

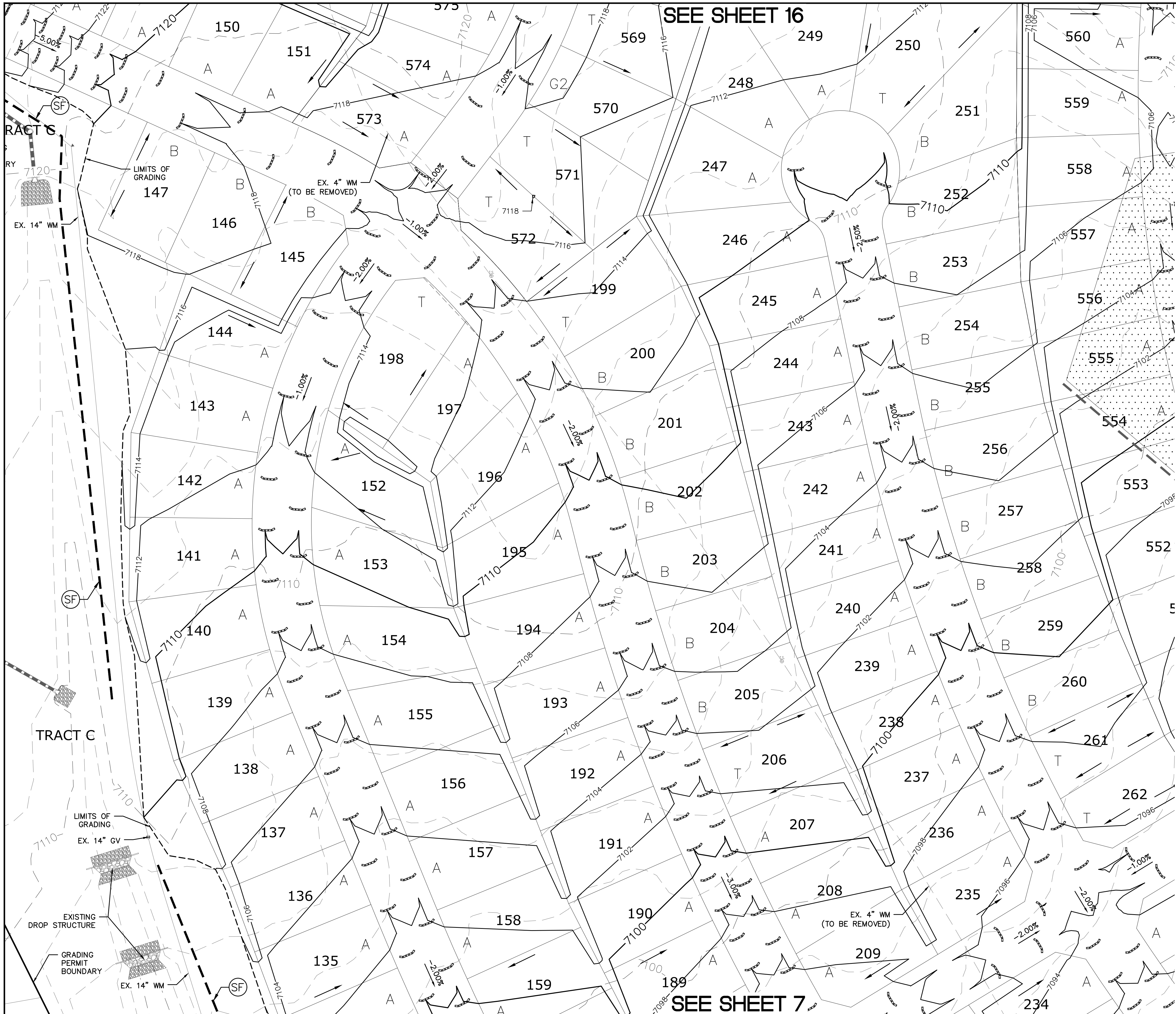


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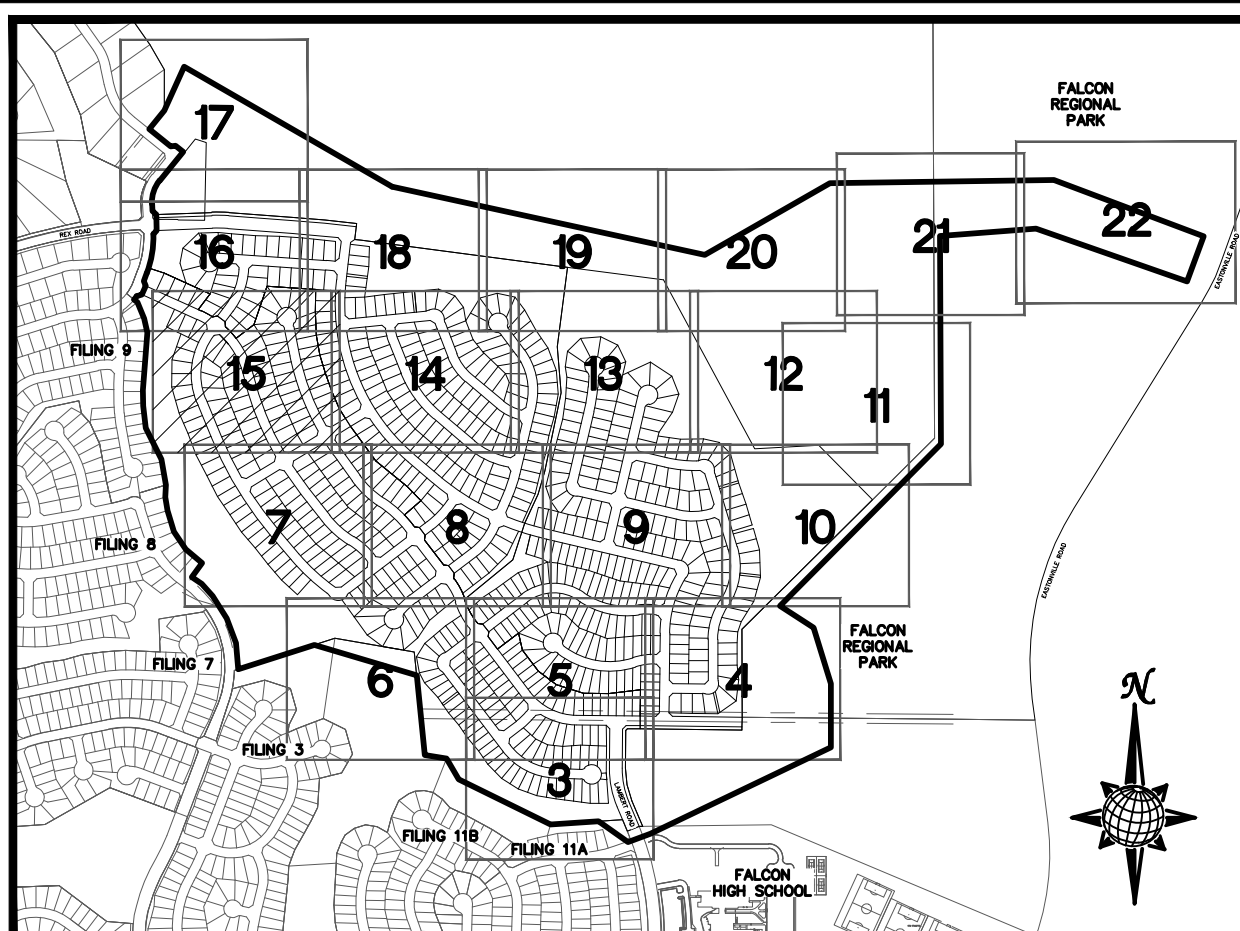


TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH		ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN CONTROL PLAN SHEET	
Drawn by	LOG	Checked by	TAK	Date	JAN 2020
Scale	AS SHOWN	14	of	28	
				Date	Revis.
				Date	Appr.
				No.	



SEE SHEET 16

SEE SHEET 7



INDEX MAP
N.T.S.
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	IP	INLET PROTECTION PER DETAIL SHEET 28
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		75
		A
		EXISTING STOCKPILE AREAS

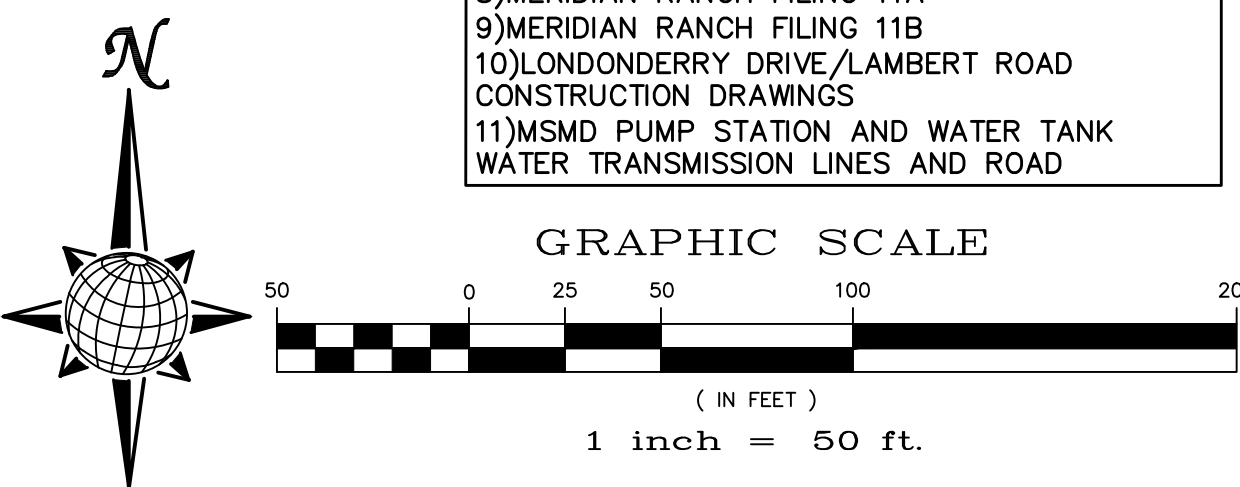
SEE SHEET 14

TWO WORKING DAYS BEFORE YOU DIG CALL 811

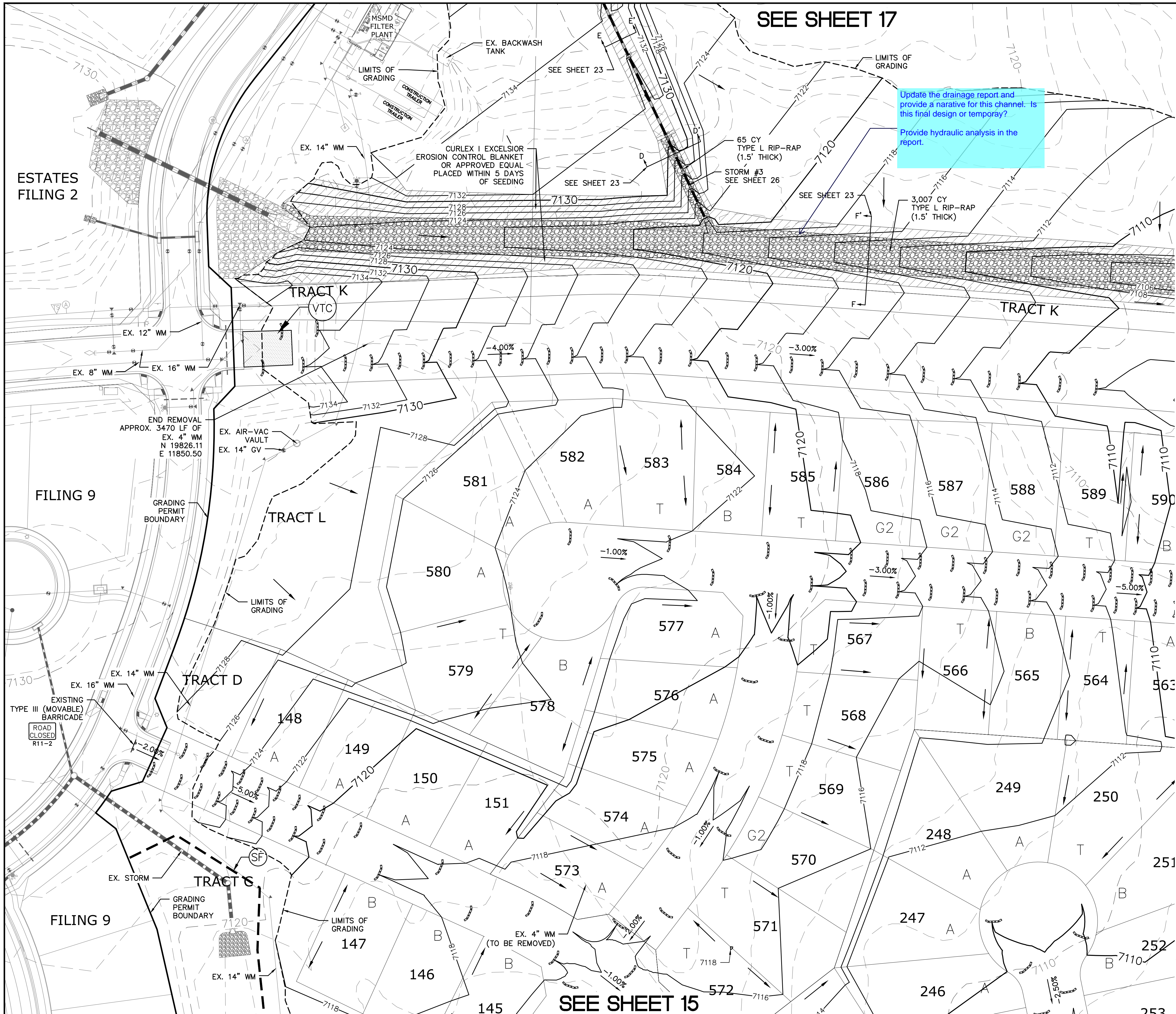
UTILITY NOTIFICATION CENTER OF COLORADO
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(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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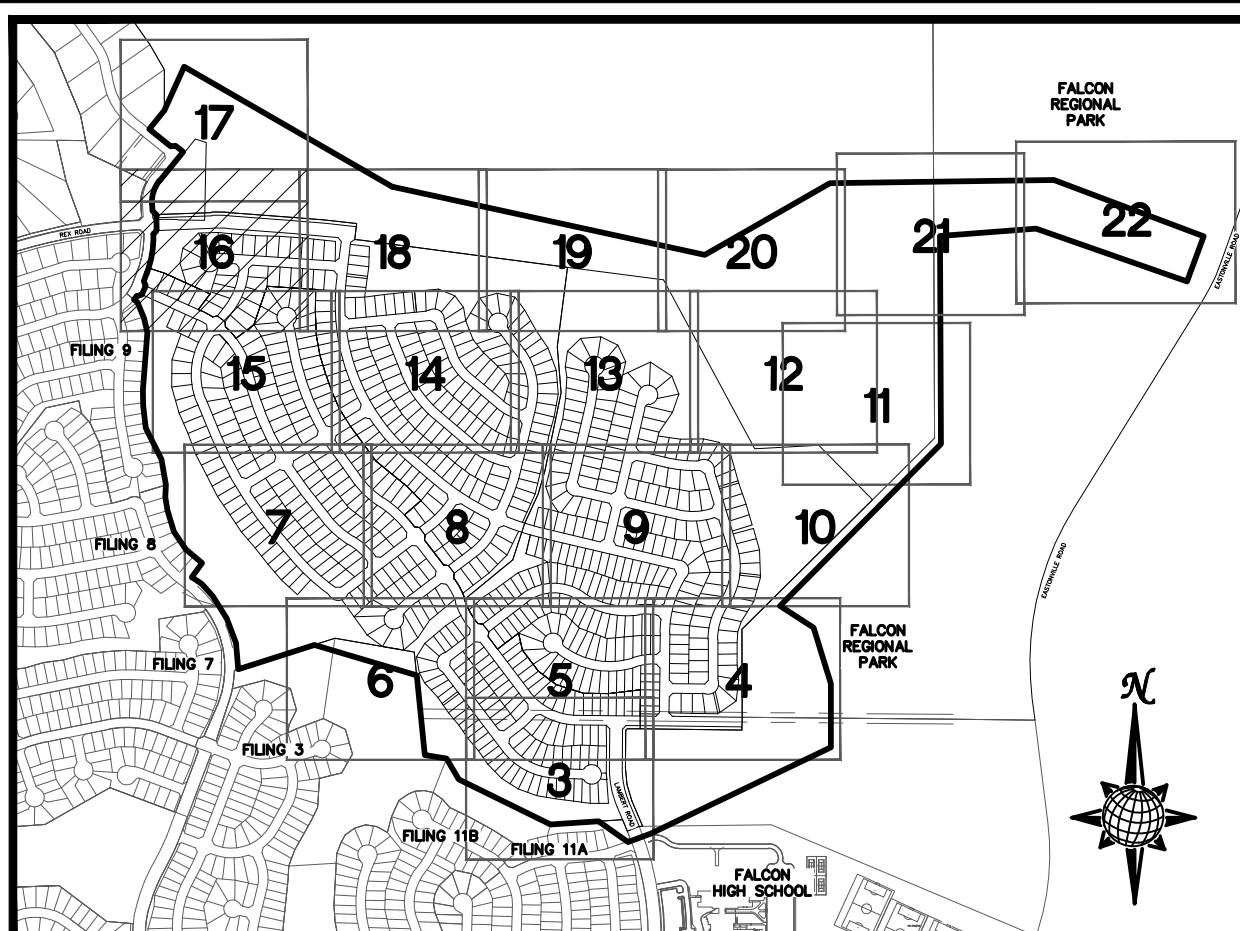


1	2	3	4	No.	Revisions	Date	Instr.	Appr.	Date
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>									
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<p>ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN CONTROL PLAN SHEET</p>									
Drawn by	LOG	Checked by	TAK	Date					
Scale	AS SHOWN			15 of 28					
<p>JAN 2020</p>									



SEE SHEET 17

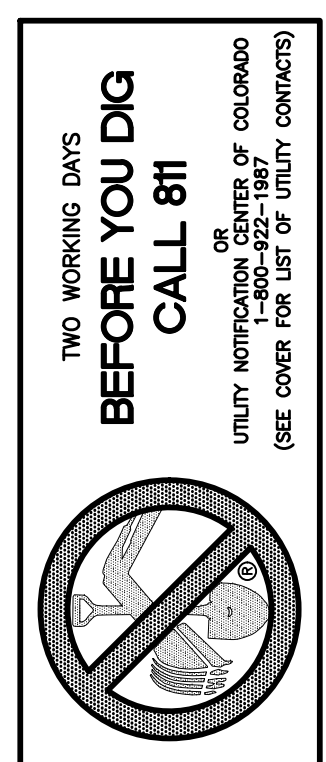
Update the drainage report and provide a narrative for this channel. Is this final design or temporary?
Provide hydraulic analysis in the report.



INDEX MAP
N.T.S.
LEGEND

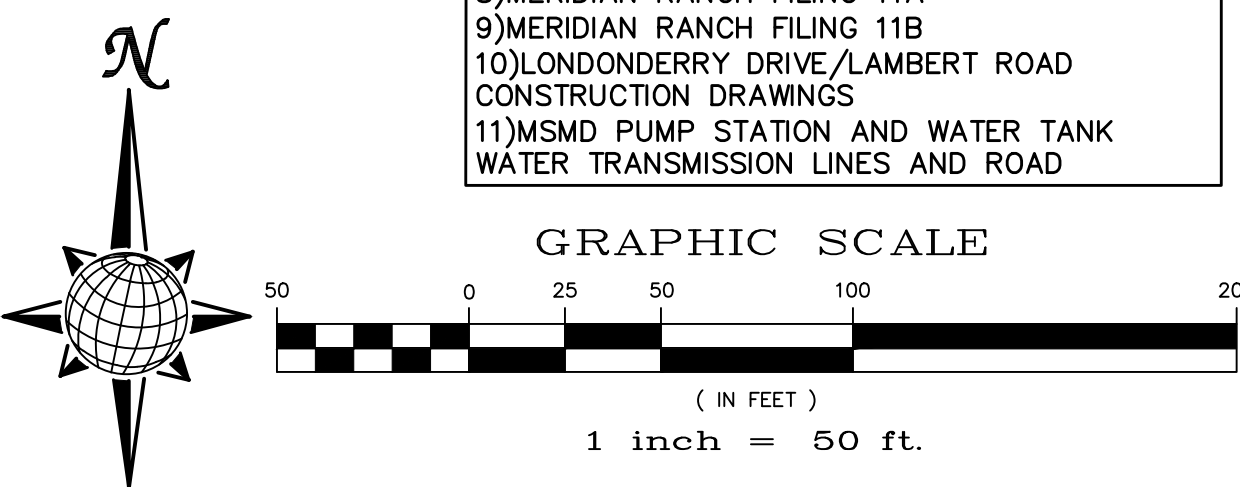
SYMBOL	ACRONYM	DESCRIPTION
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		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		75
		A
		EXISTING STOCKPILE AREAS

SEE SHEET 18

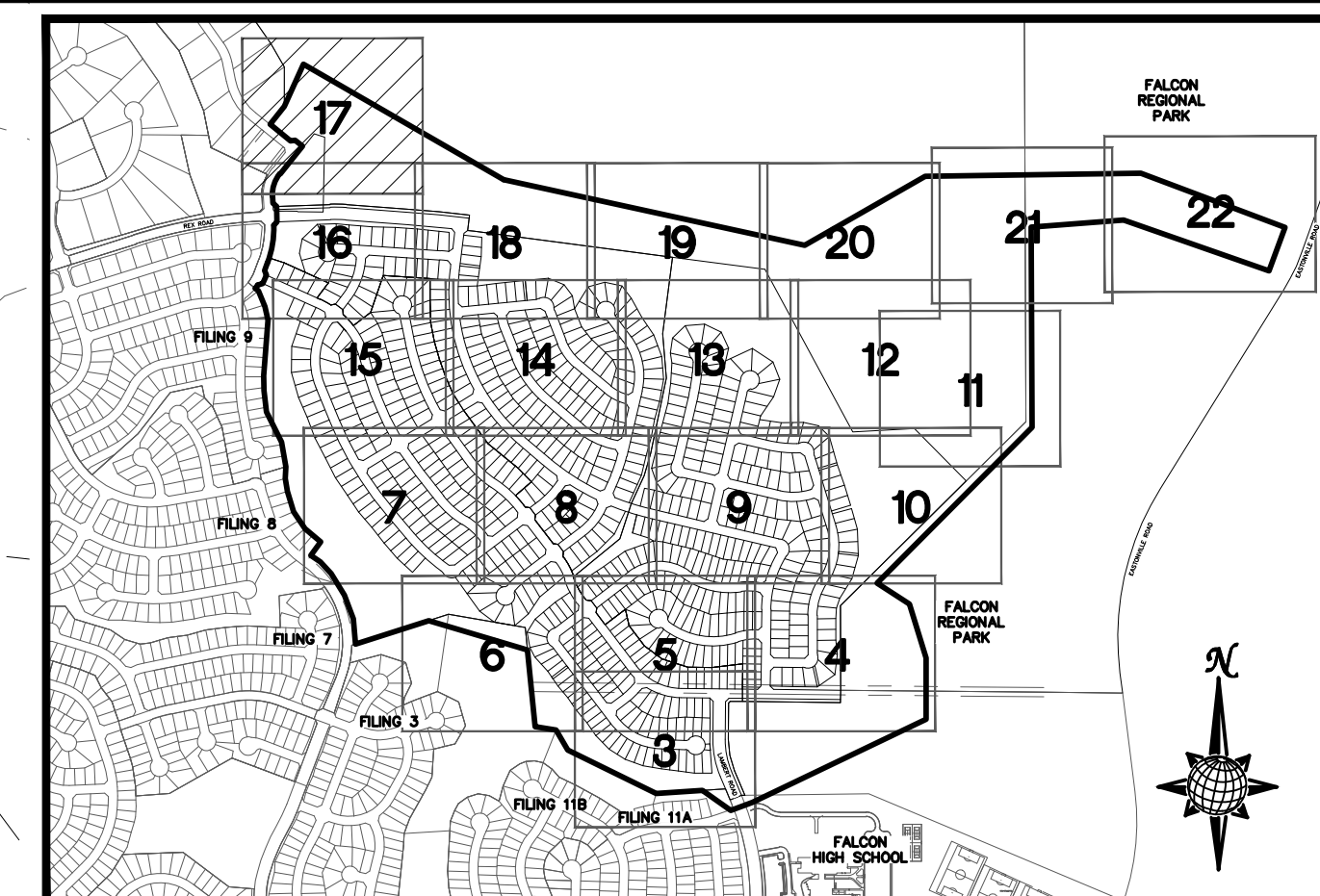
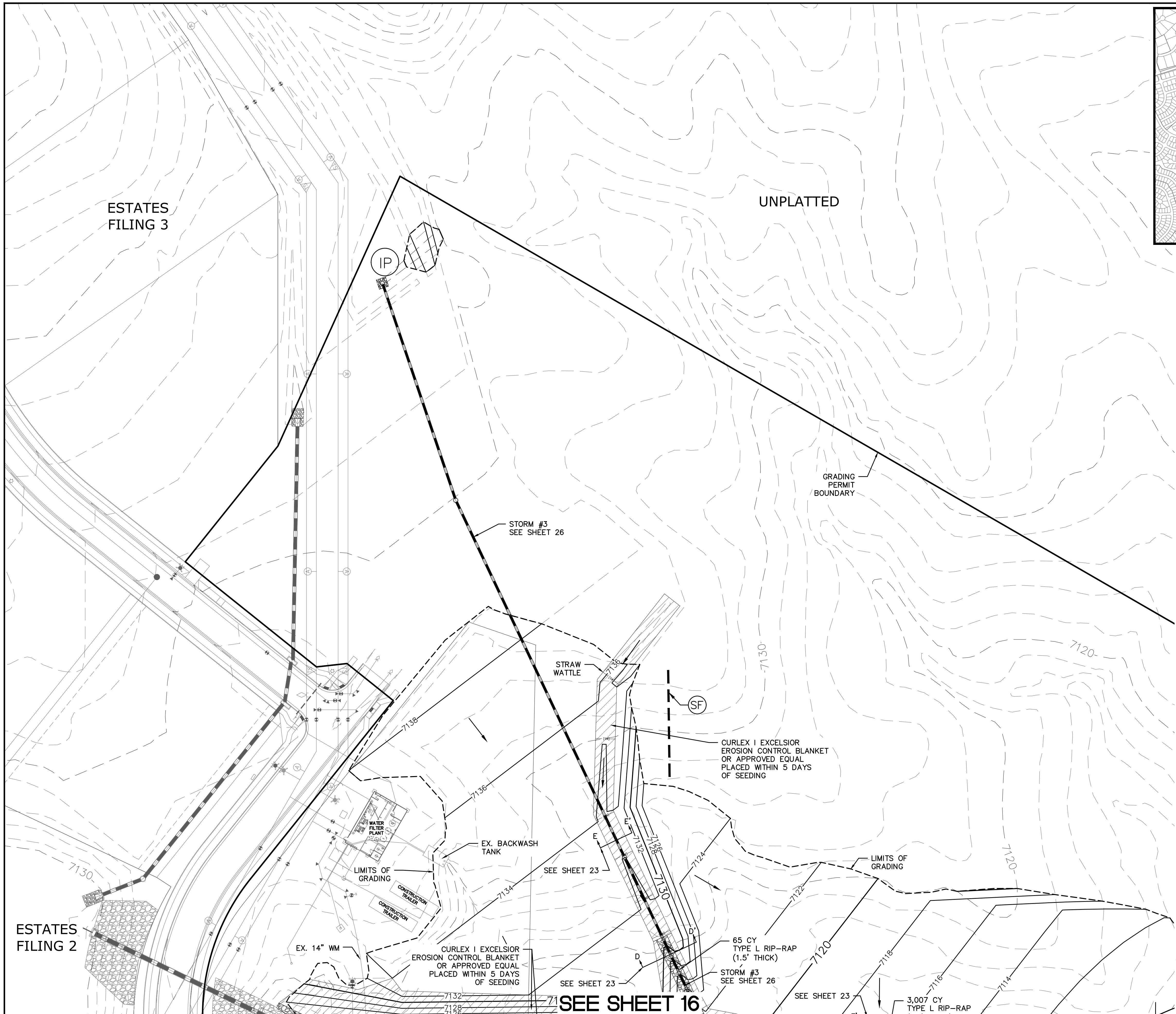


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1	2	3	4	No.
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ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				JAN 2020
Scale	16 of 28			



INDEX MAP
N.T.S.
LEGEND

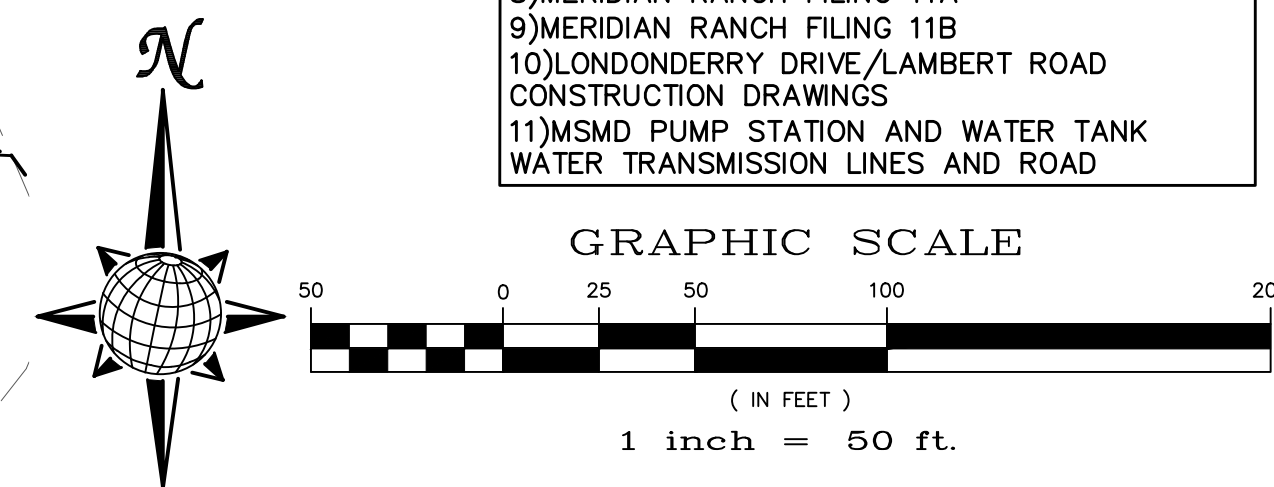
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	IP	INLET PROTECTION PER DETAIL SHEET 28
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		75
		A
		EXISTING STOCKPILE AREAS

TWO WORKING DAYS BEFORE YOU DIG CALL 811

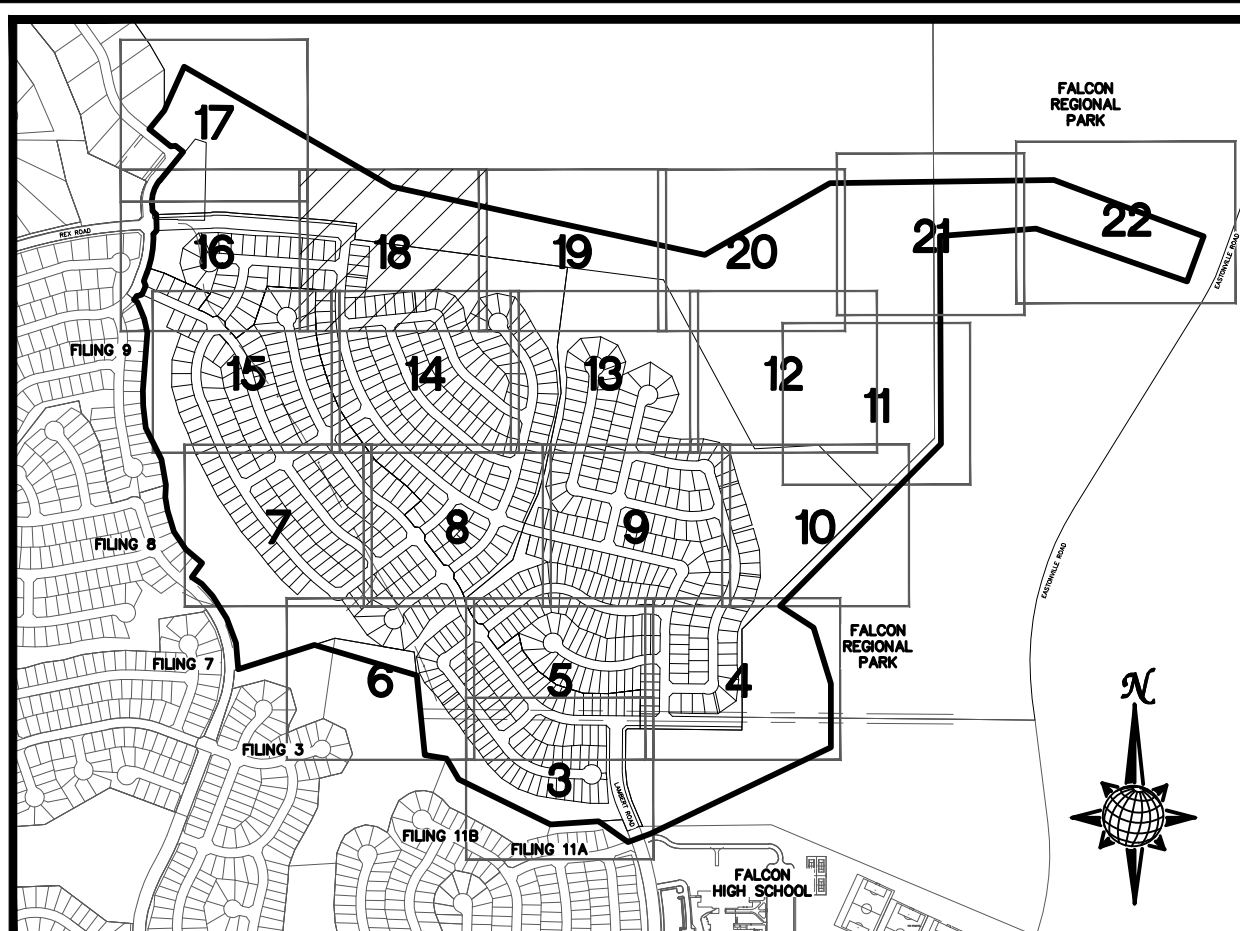
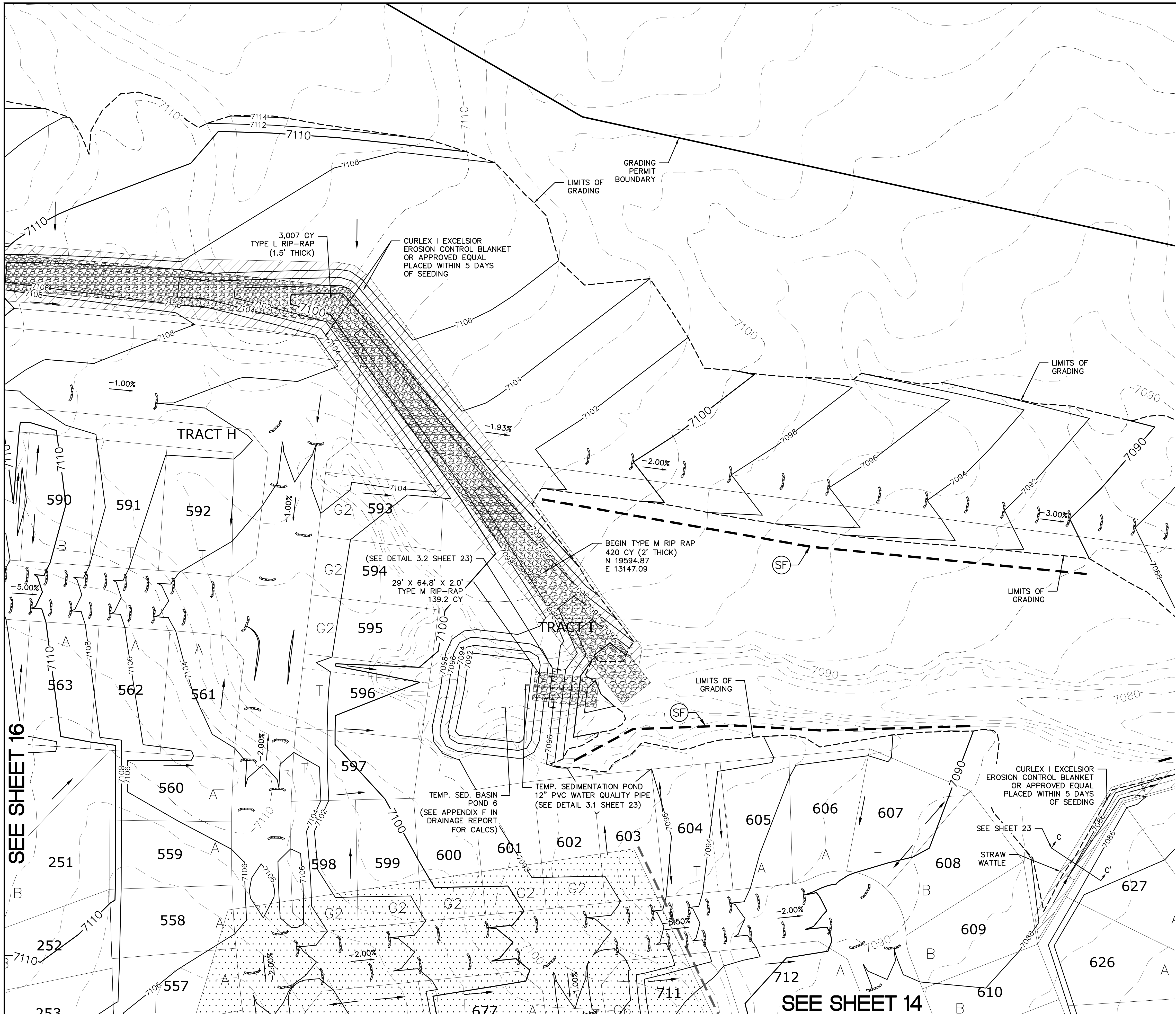
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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
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



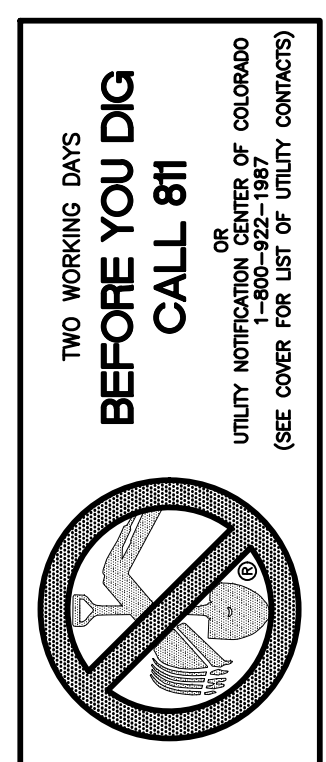
1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				JAN 2020
Scale				17 of 28
Date Revis. Appr. Date				



INDEX MAP
N.T.S.
LEGEND

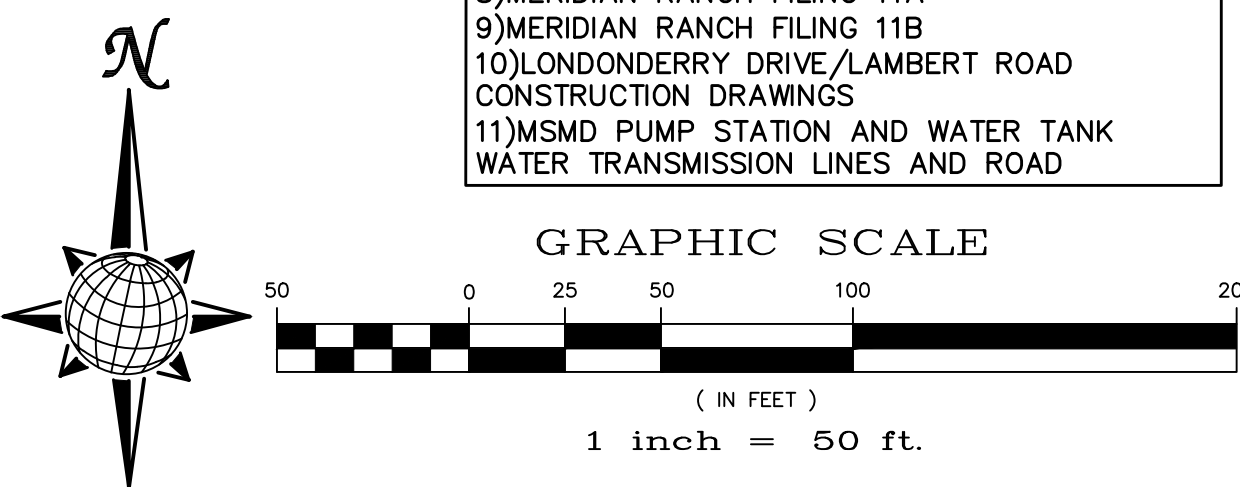
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 28
		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 19



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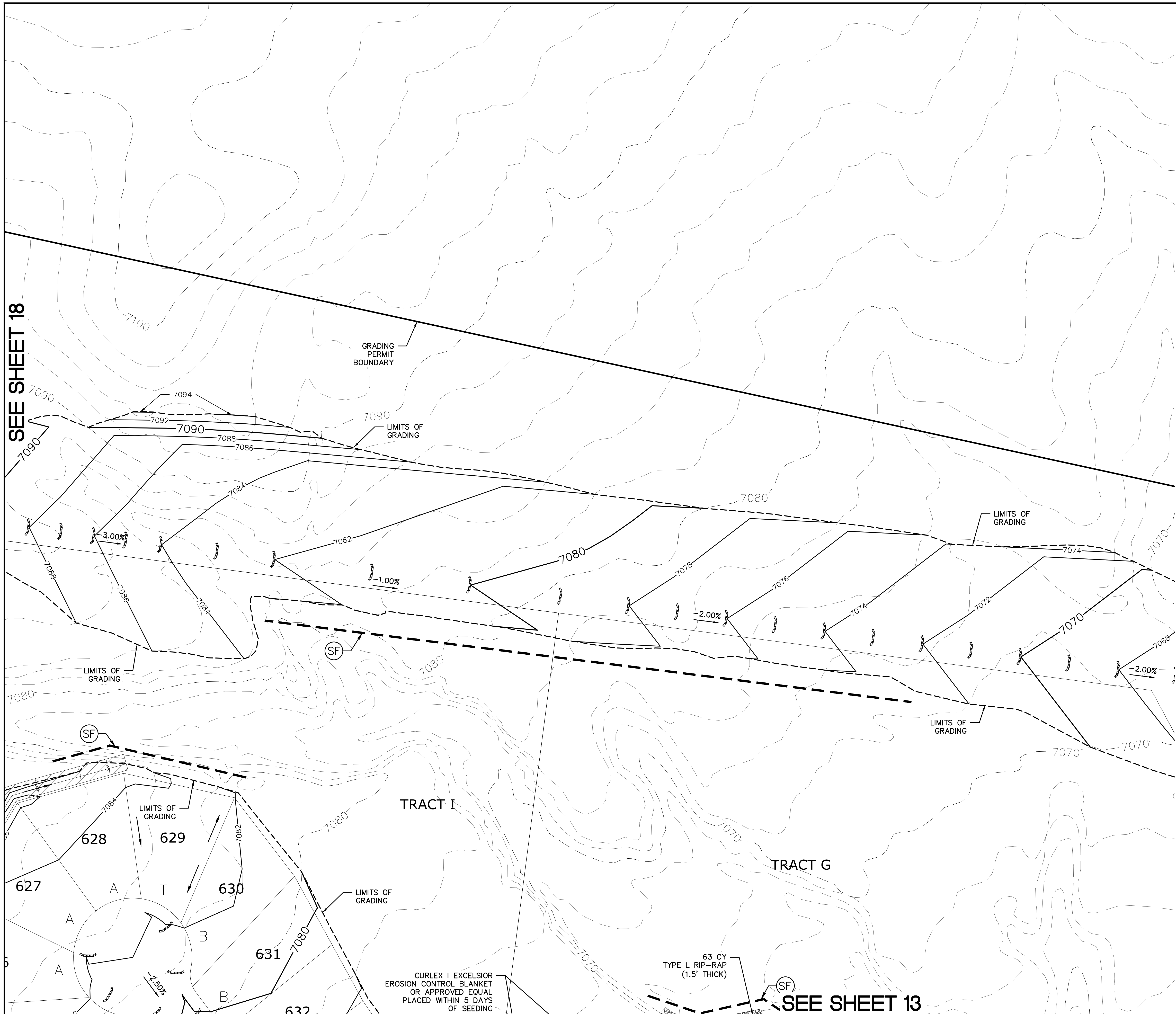
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
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9)MERIDIAN RANCH FILING 11B
10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



SEE SHEET 16

SEE SHEET 14

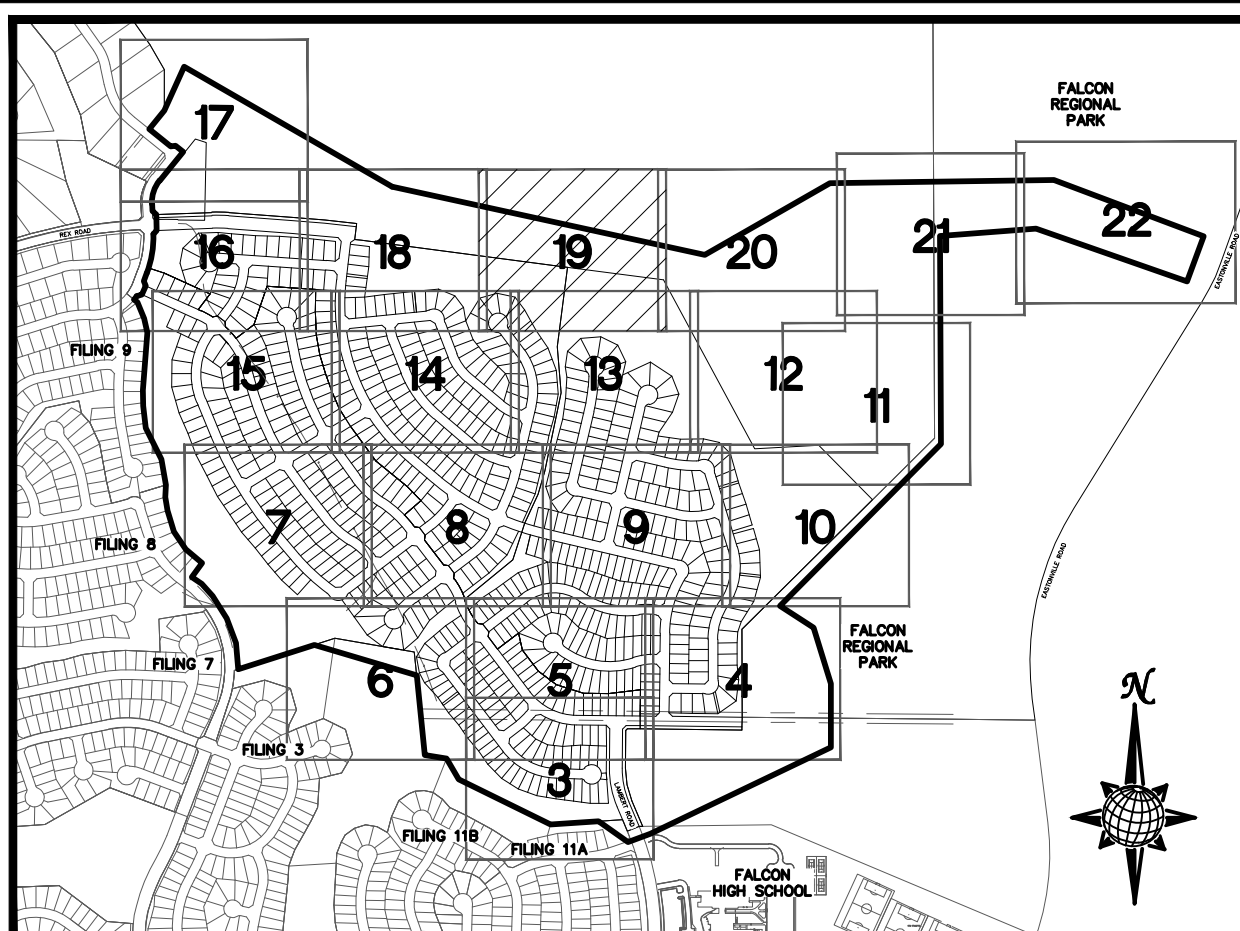
1	2	3	4	No.	Date	Appr.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				Revisions		
MERIDIAN RANCH						
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET						
Drawn by	LOG	Checked by	TAK	Date	JAN 2020	
Scale	AS SHOWN		18 of 28			



SEE SHEET 18

SEE SHEET 20

SEE SHEET 13



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N.T.S.

LEGEND

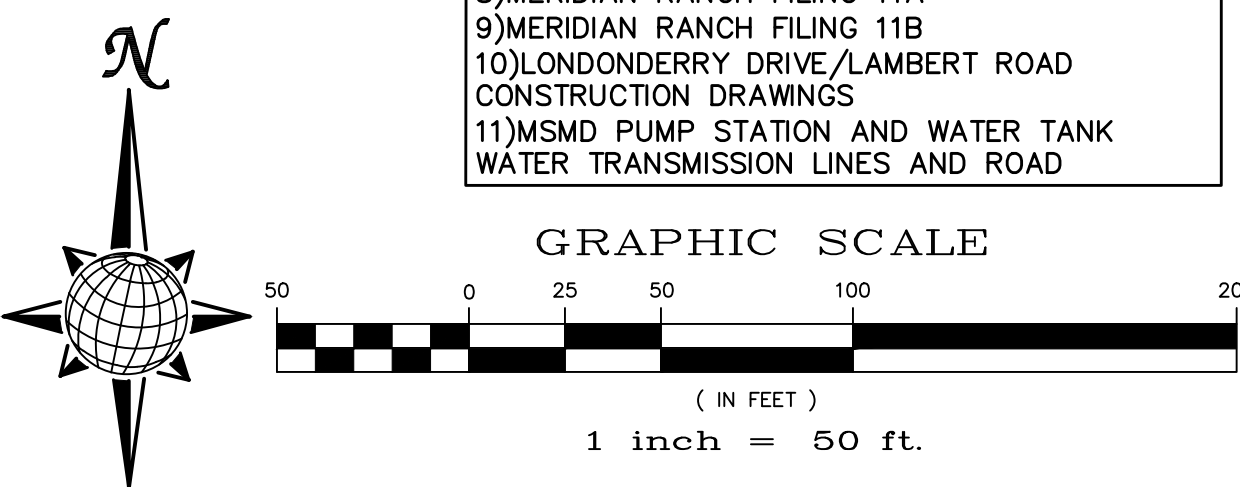
SYMBOL	ACRONYM	DESCRIPTION
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		LIMITS OF GRADING
		EXISTING CONTOUR (10')
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		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

TWO WORKING DAYS BEFORE YOU DIG CALL 811

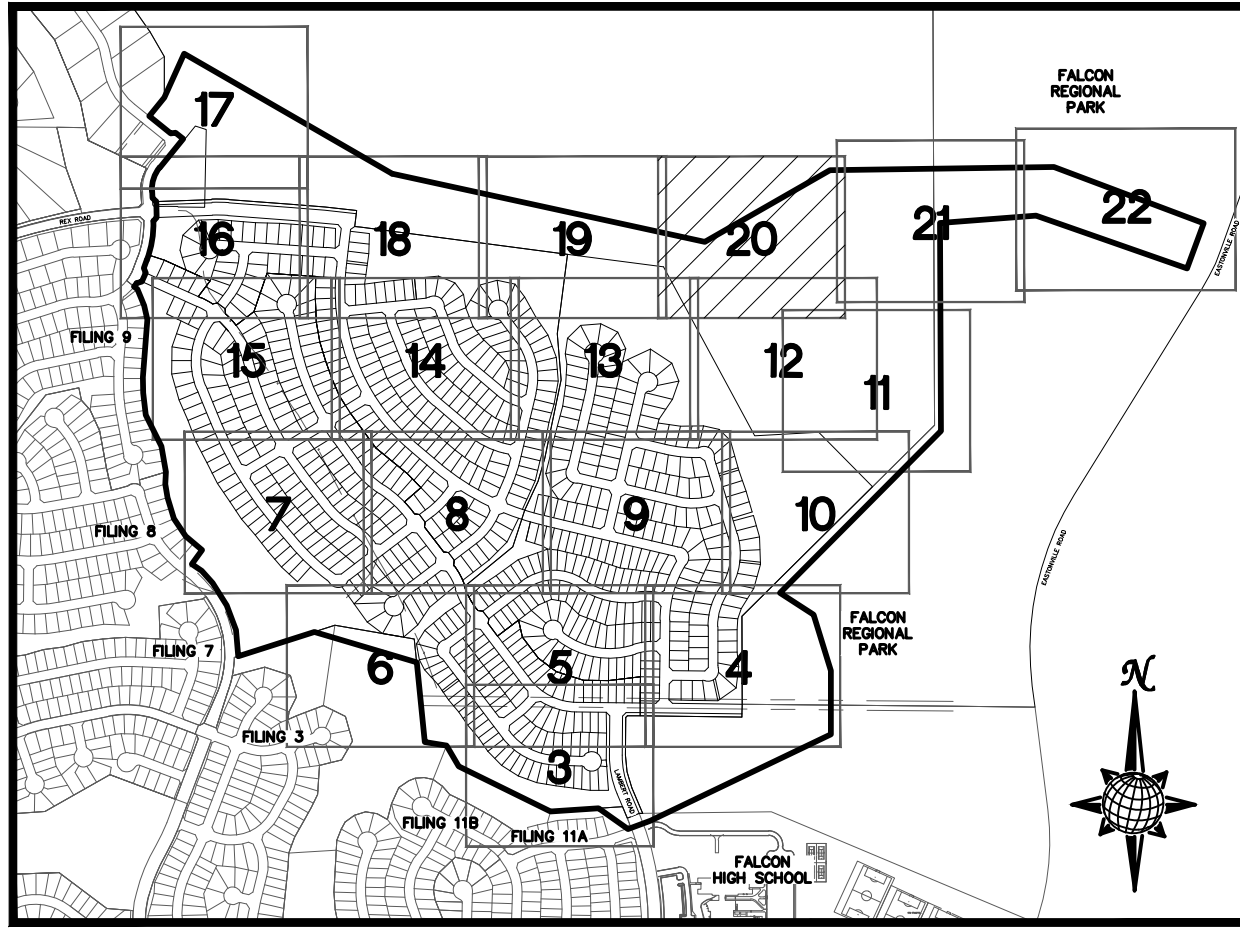
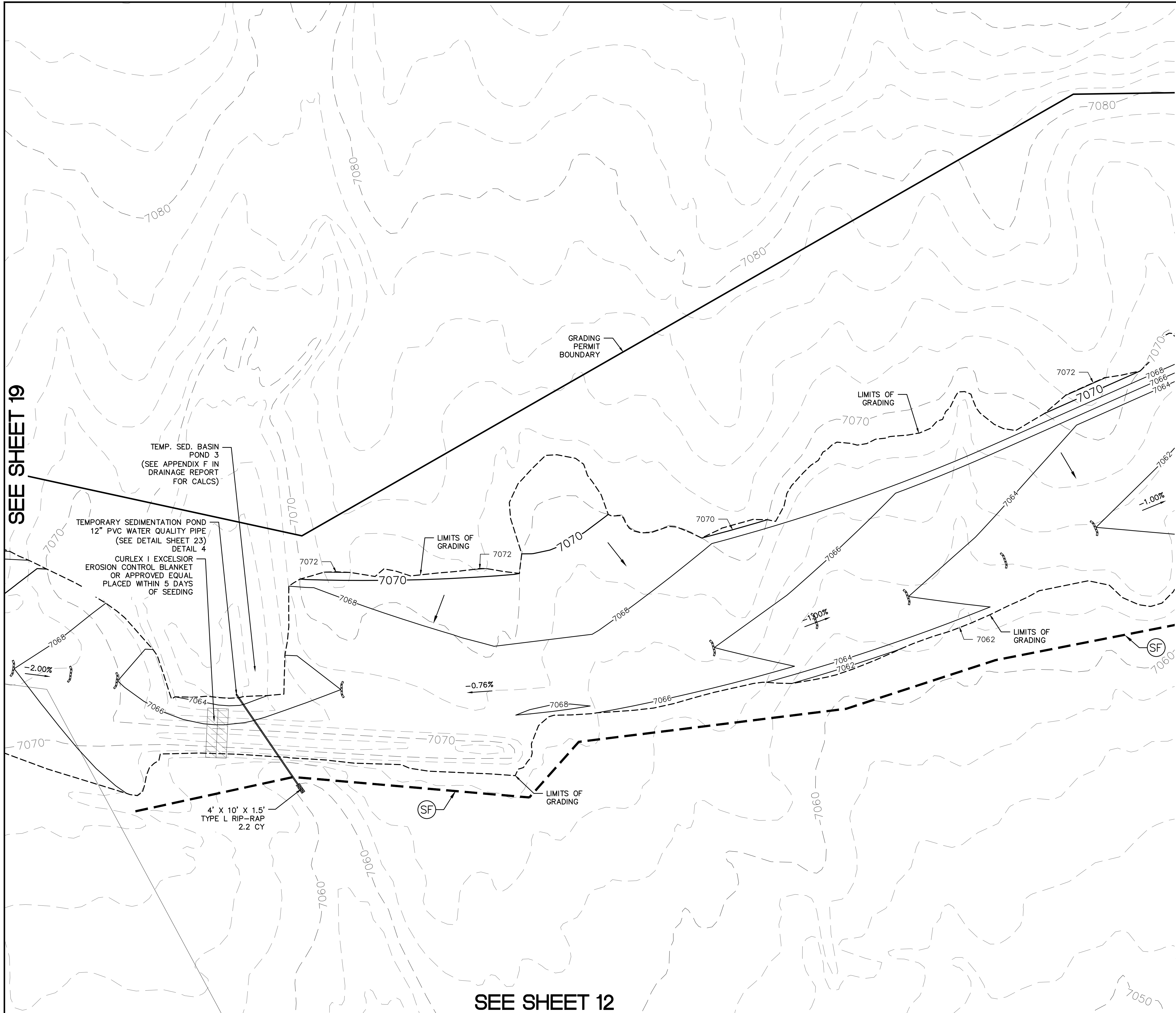
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1887
(SEE COVER FOR LIST OF UTILITY CONTRACTORS)

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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 19 of 28	Date JAN 2020
Revisions		No.	Date
Appr.		Date	Date



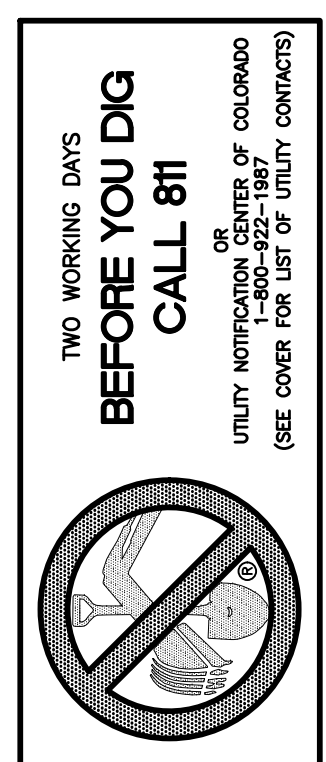
INDEX MAP
N.T.S.

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

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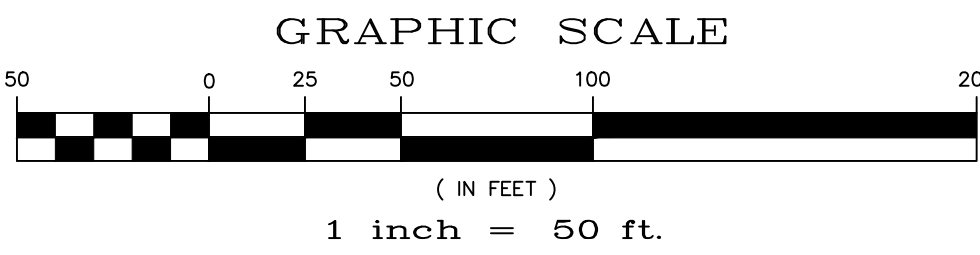
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SEE SHEET 21

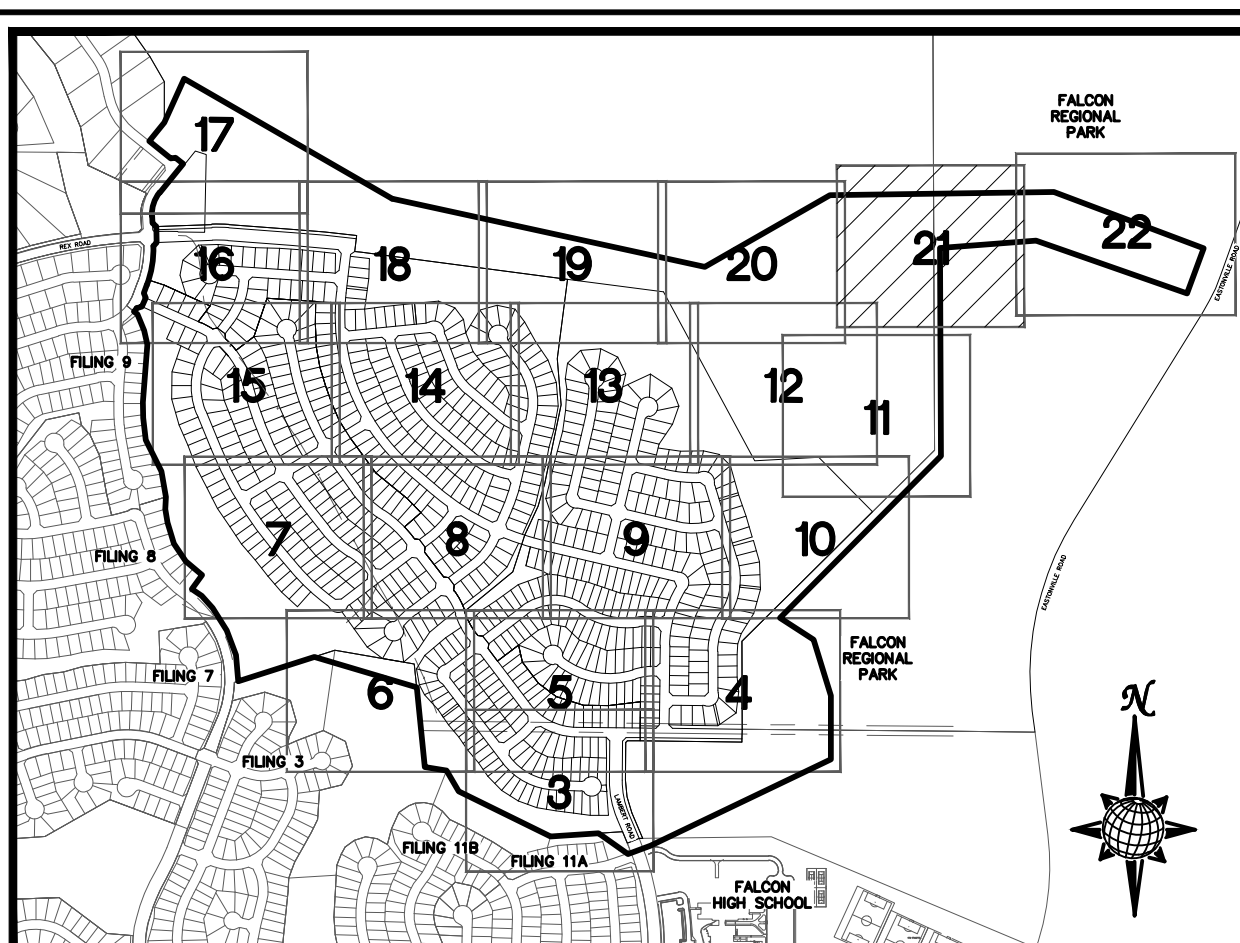
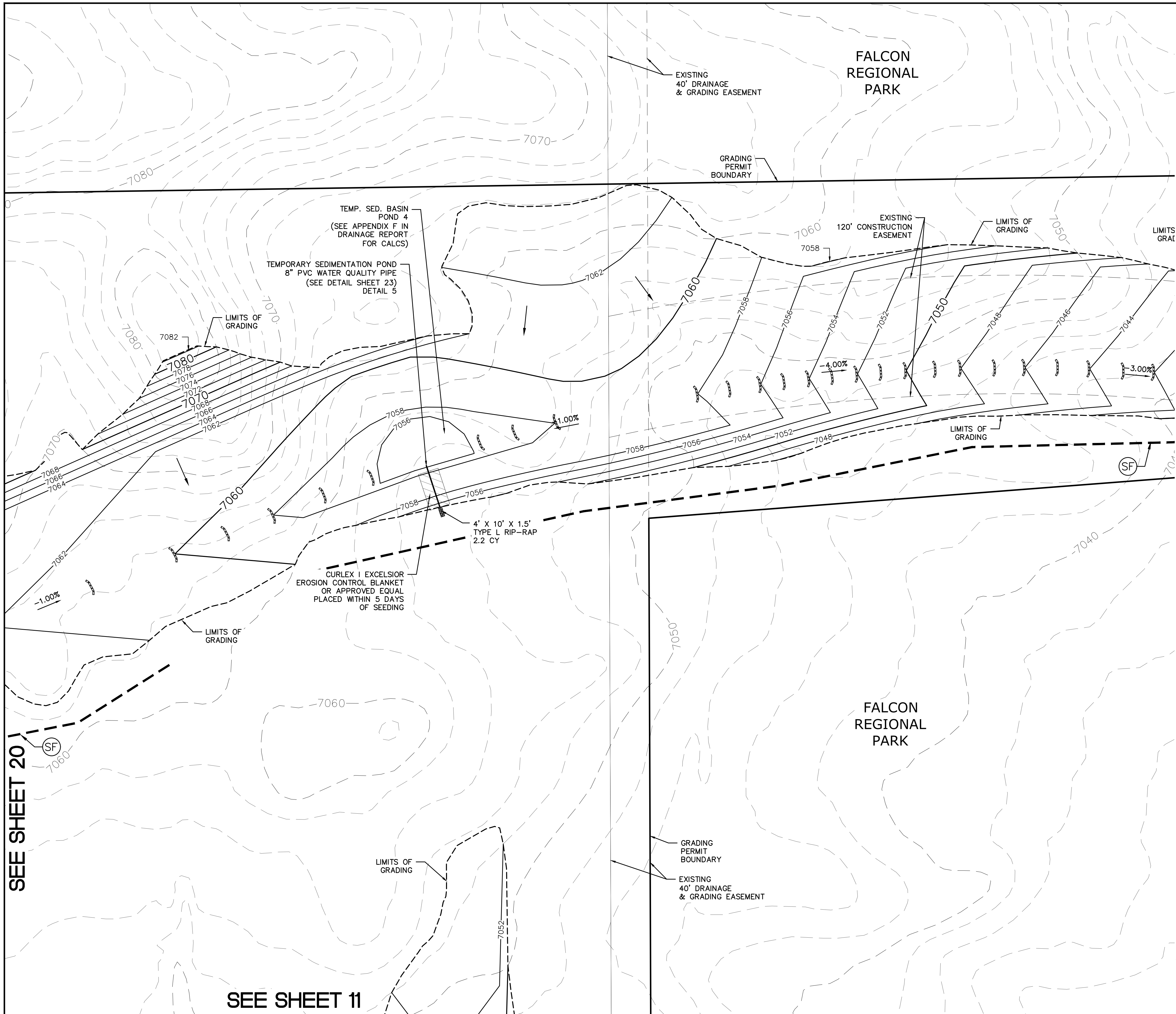
SEE SHEET 19

SEE SHEET 12



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 20 of 28	Date JAN 2020
Revisions		No.	Date
Appr.		Date	Date

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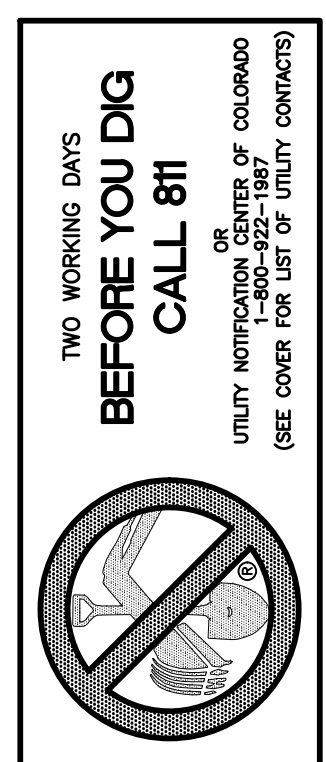
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N.T.S.
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SYMBOL	ACRONYM	DESCRIPTION
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		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

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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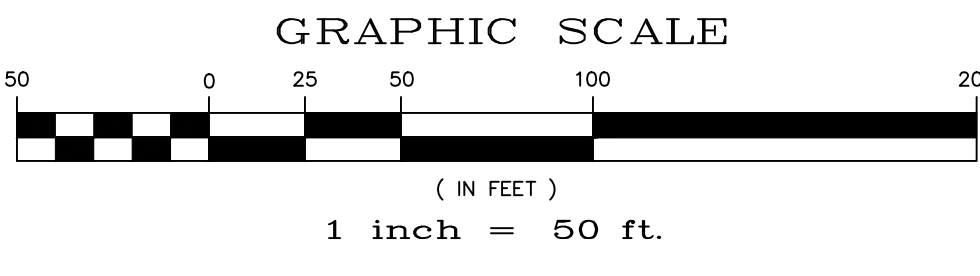
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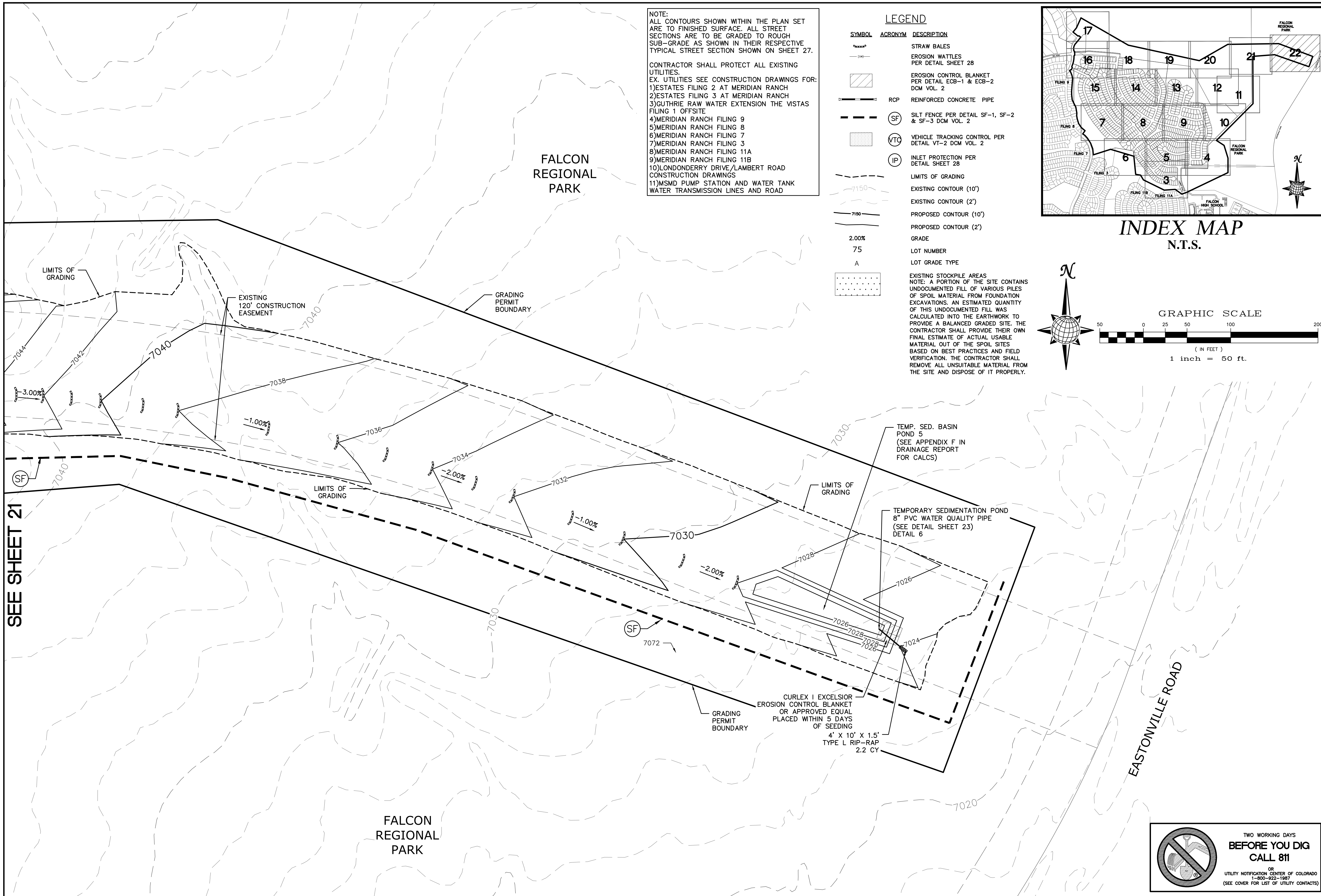
SEE SHEET 22

SEE SHEET 20

SEE SHEET 11



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 21 of 28	Date JAN 2020
Revisions		Date	Appr.

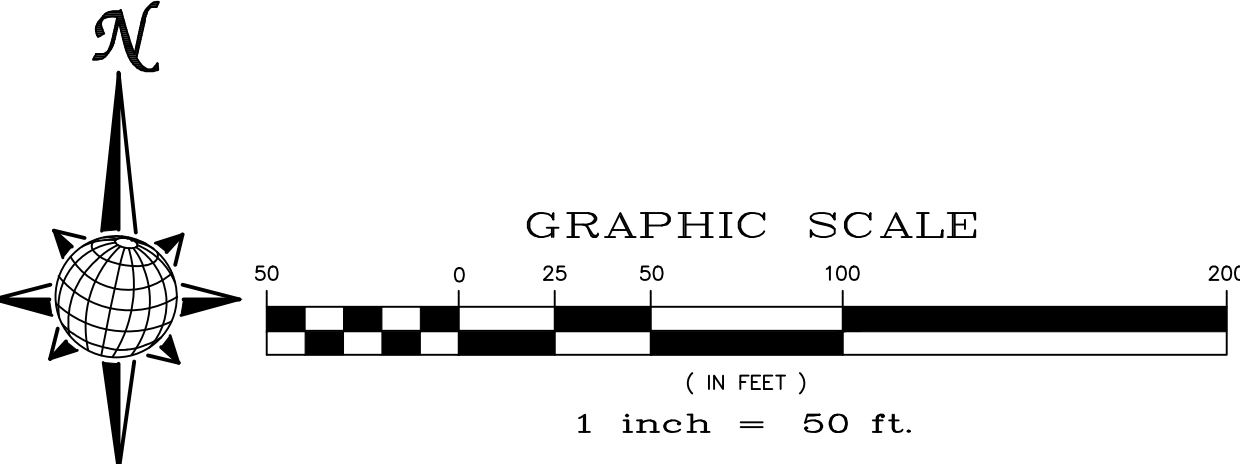
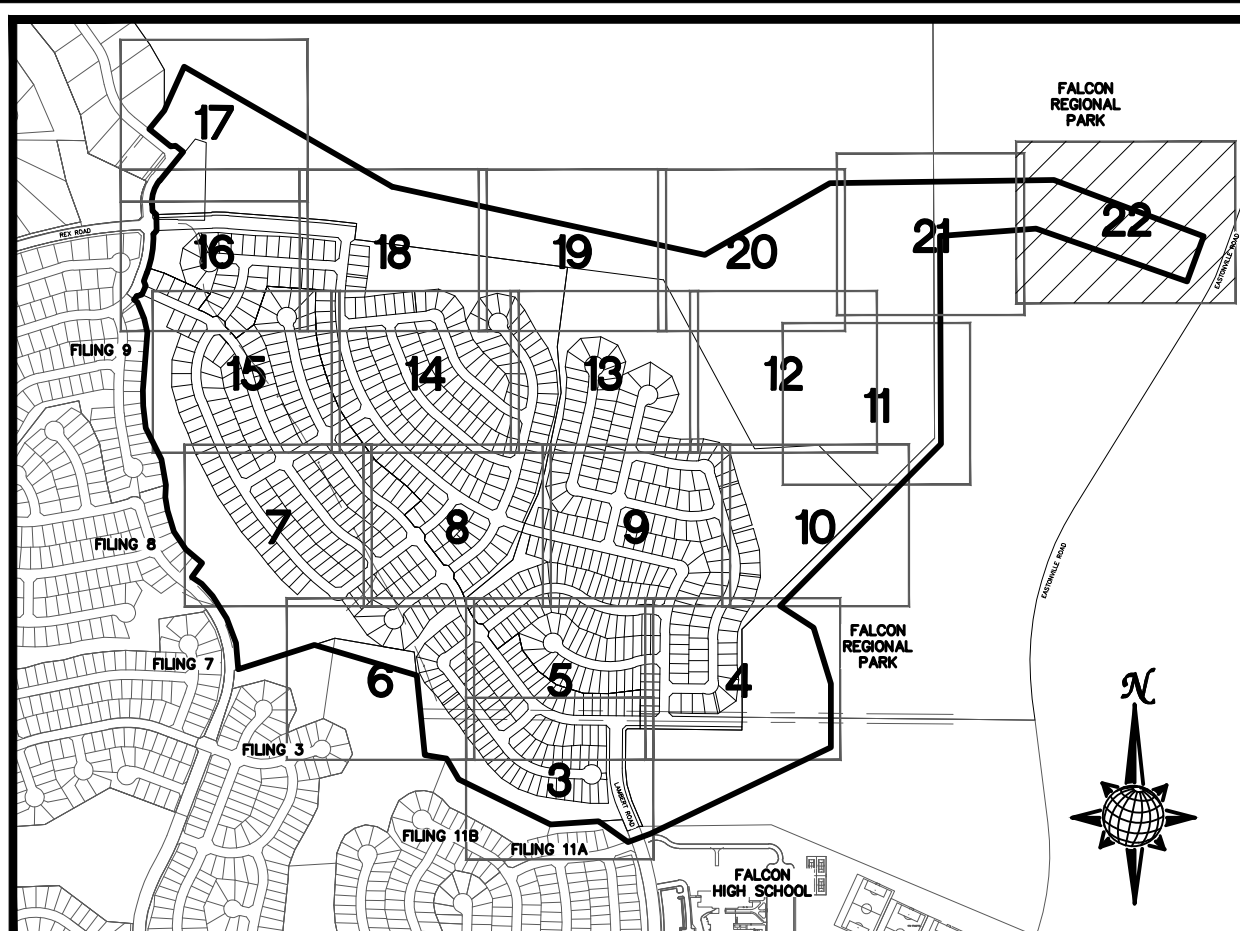


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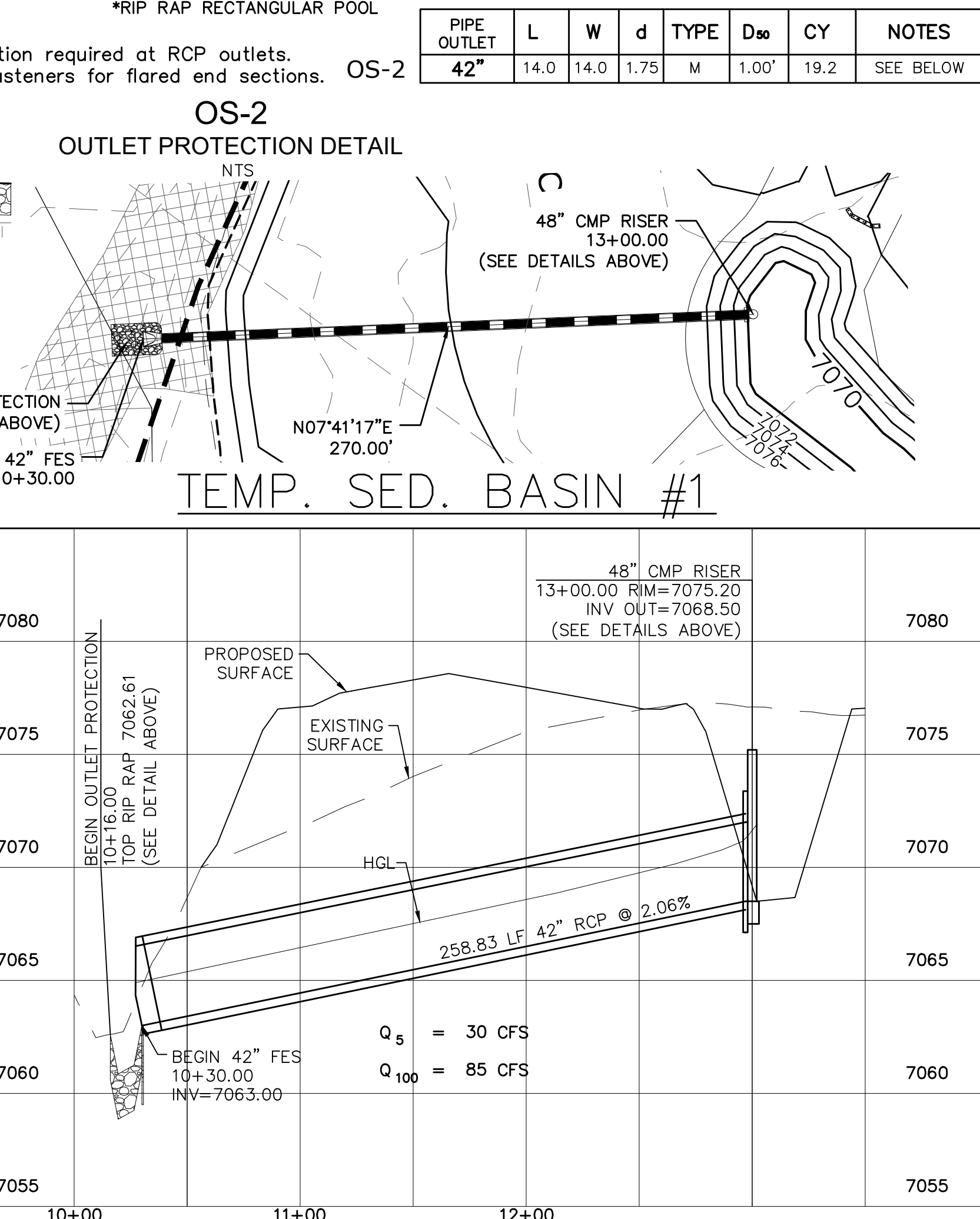
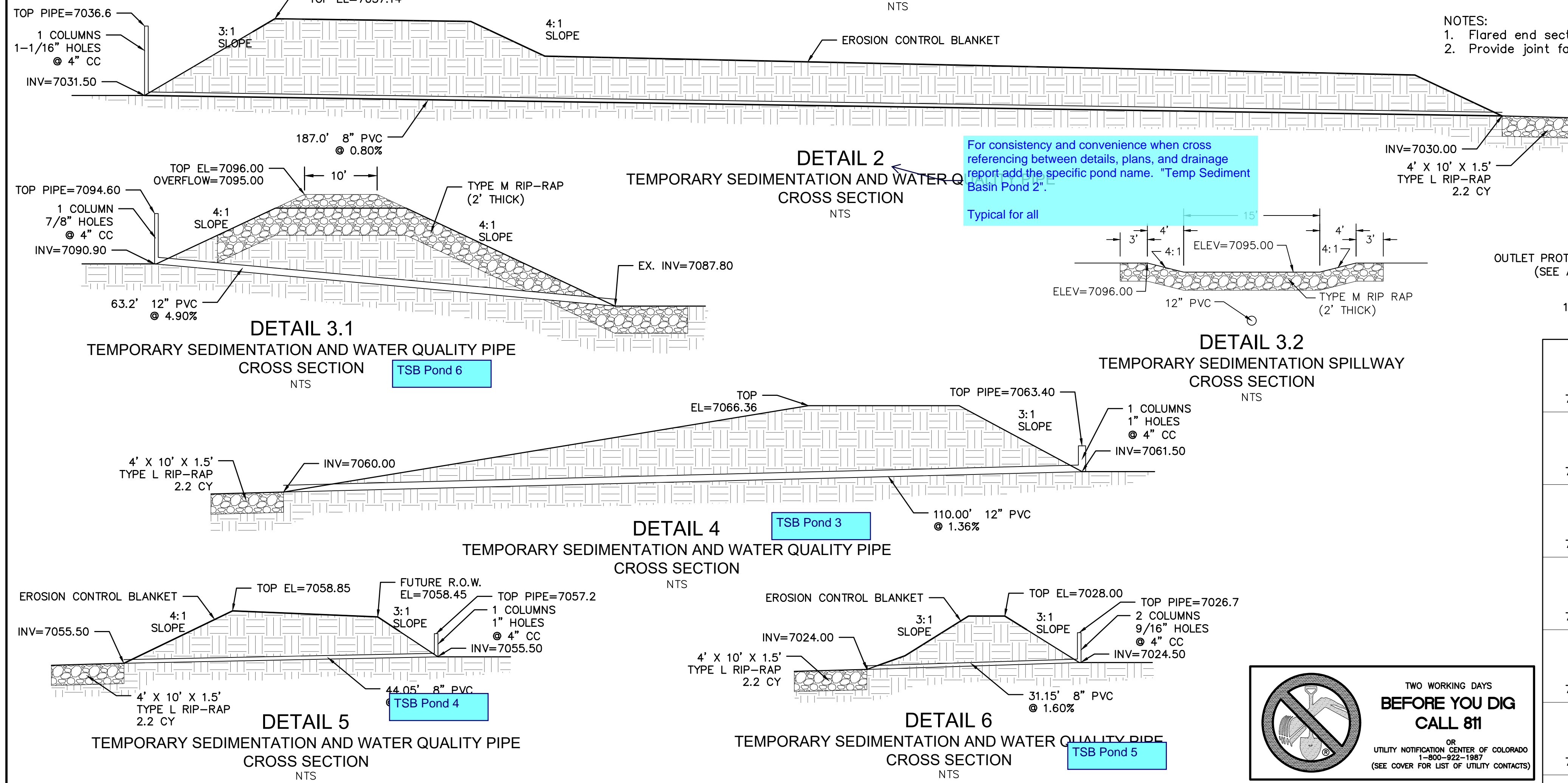
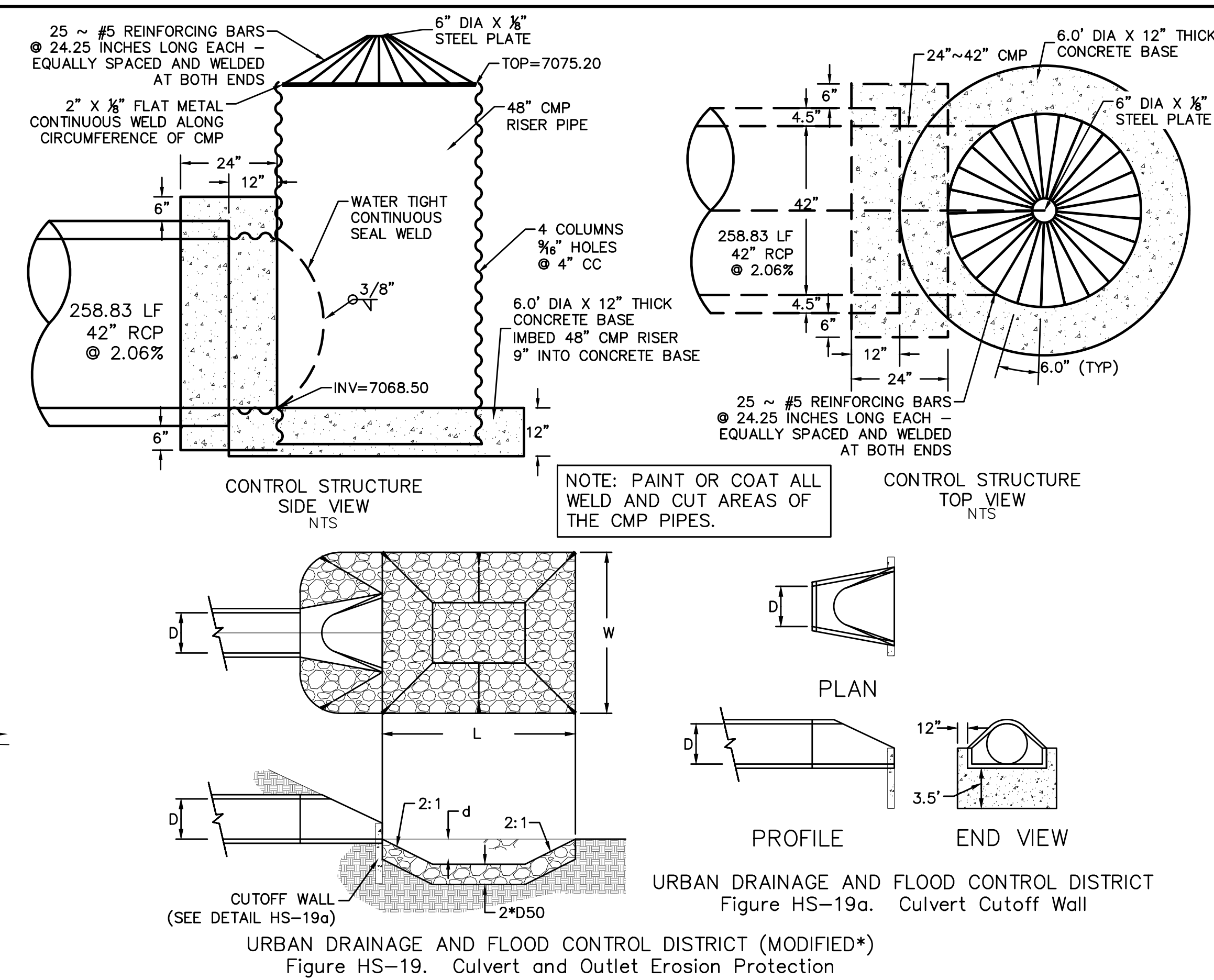
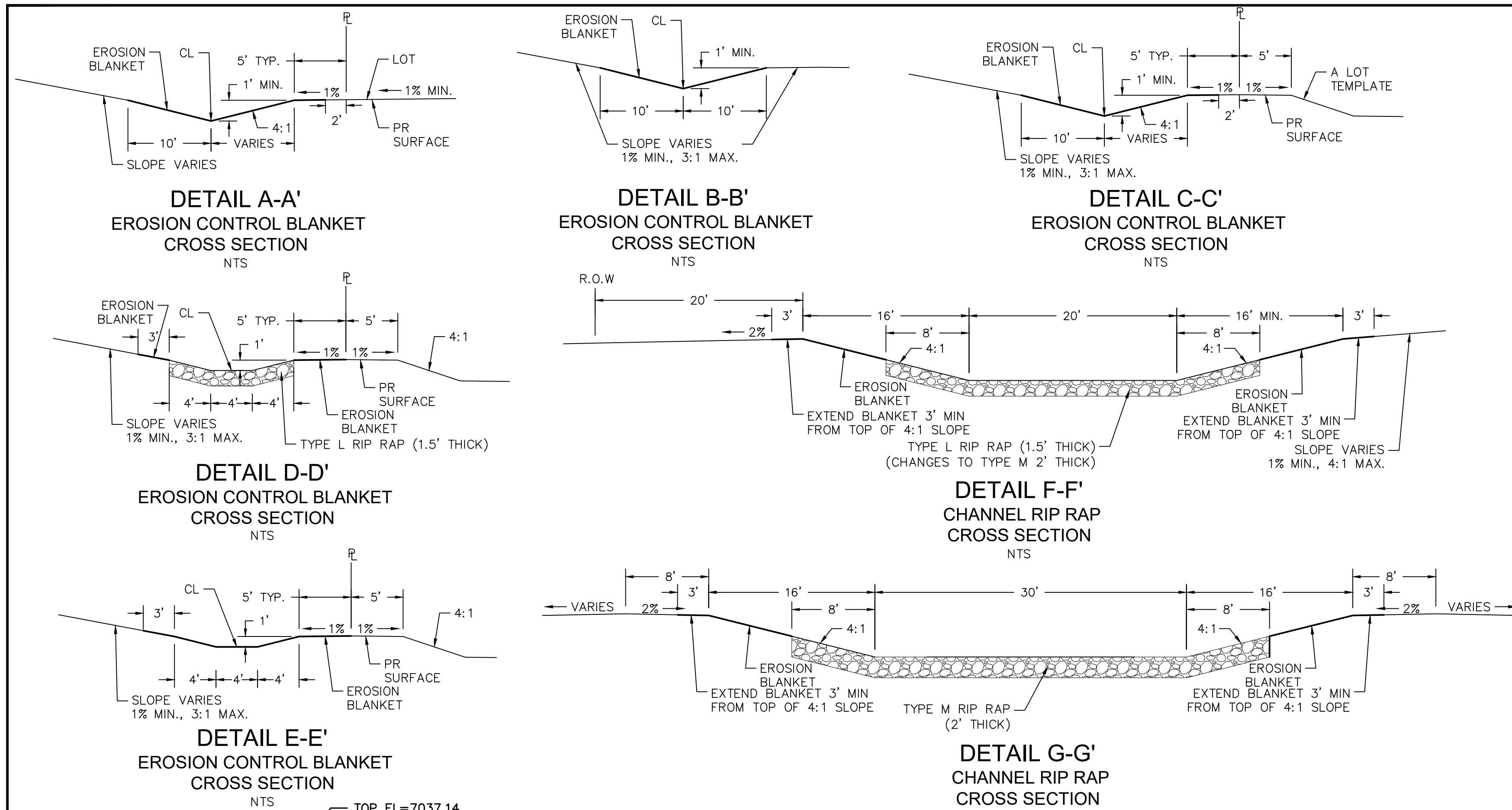
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
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SEE SHEET 21

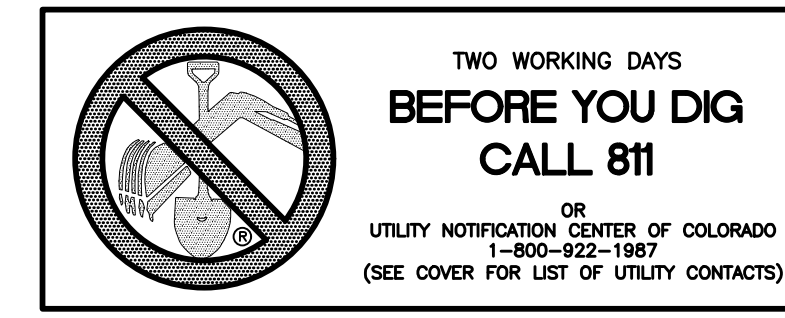
1	2	3	4	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				JAN 2020
Scale	22 of 28			
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)				



- NOTES:
1. Flared end section required at RCP outlets.
2. Provide joint fasteners for flared end sections.

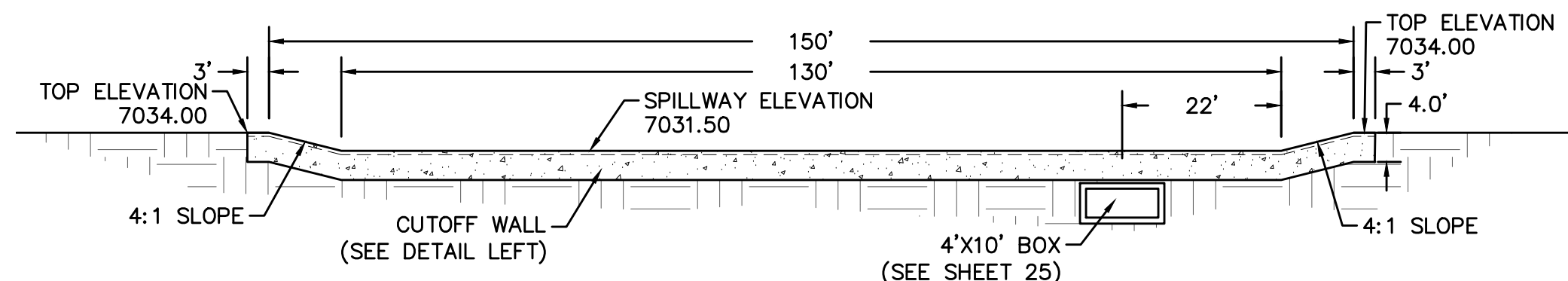
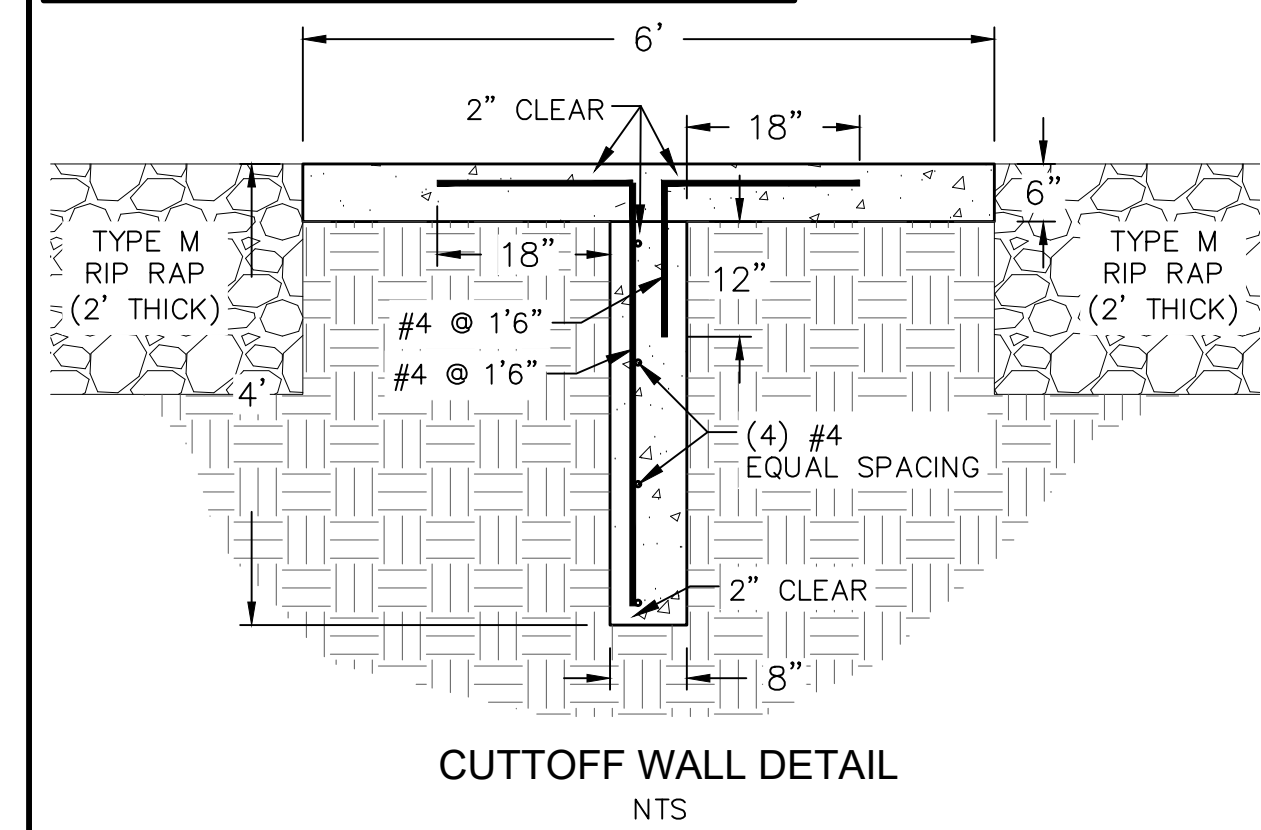
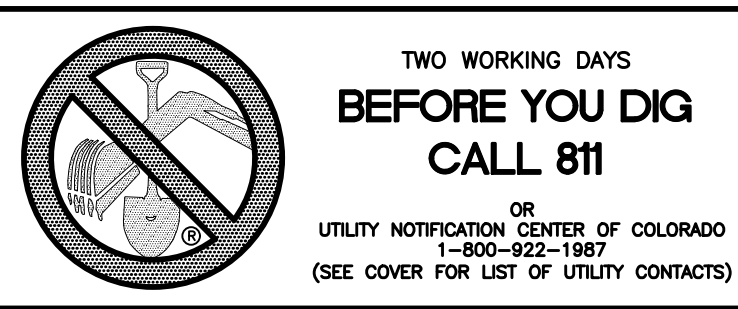
PIPE OUTLET	L	W	d	TYPE	D ₅₀	CY	NOTES
OS-2 42"	14.0	14.0	1.75	M	1.00'	19.2	SEE BELOW

For consistency and convenience when cross referencing between details, plans, and drainage report add the specific pond name. "Temp Sediment Basin Pond 2".
Typical for all

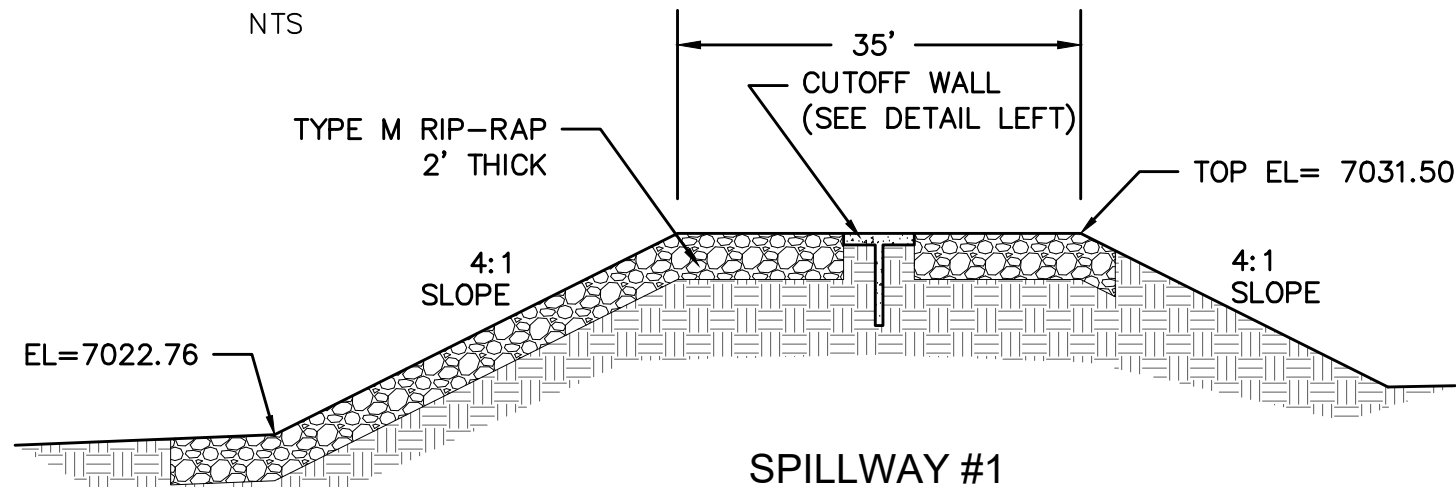


Date	Appr.	Date	Revis.	No.
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Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				JAN 2020
Scale	23 of 28			

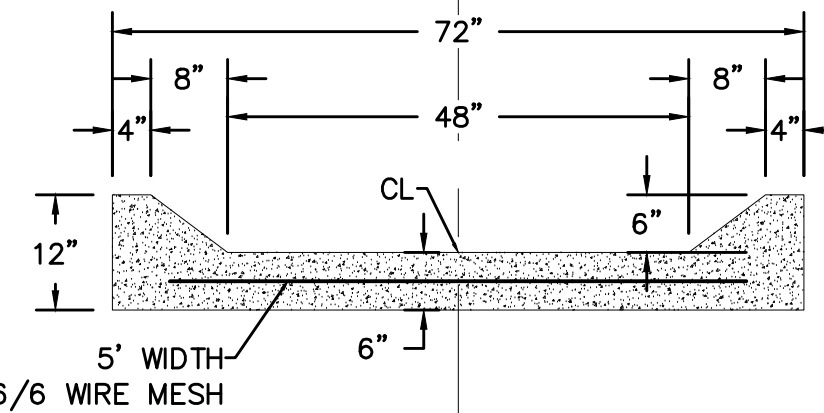
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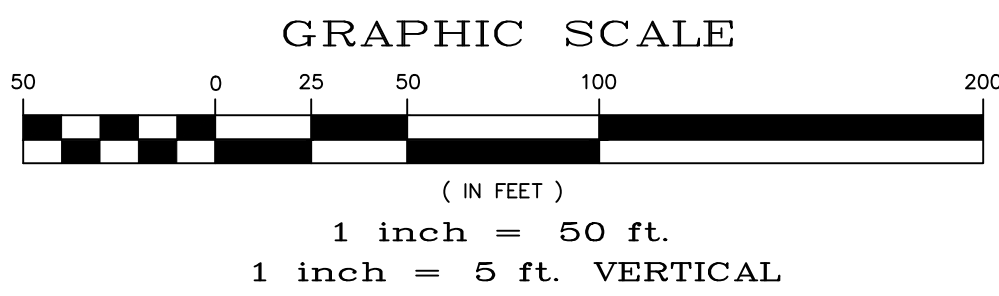
SPILLWAY #1 SECTION A-A NTS



SPILLWAY #1 CROSS SECTION B-B NTS

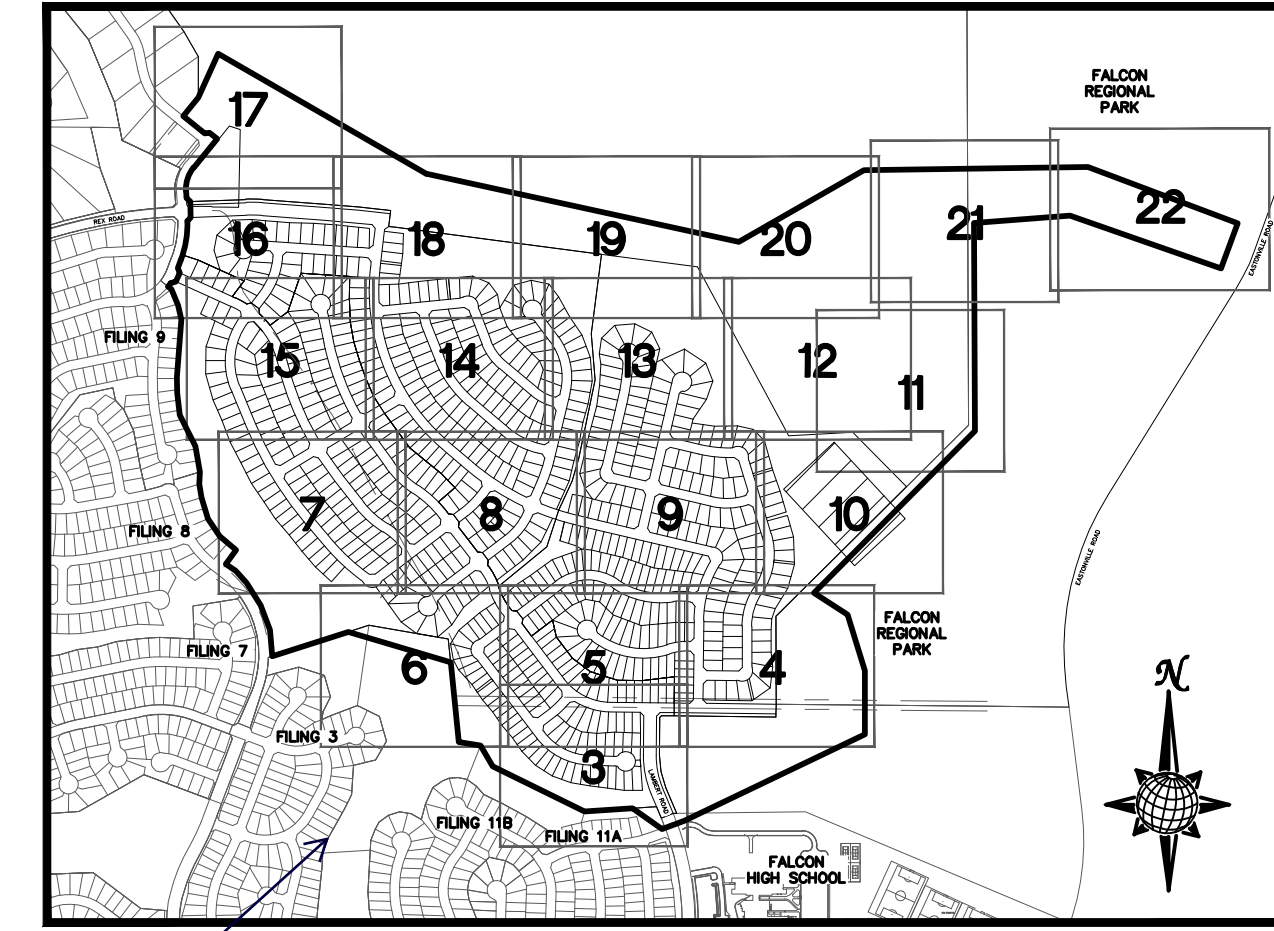


POND CHANNEL CROSS SECTION DETAIL NTS



LEGEND

SYMBOL	ACRONYM	DESCRIPTION
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		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS



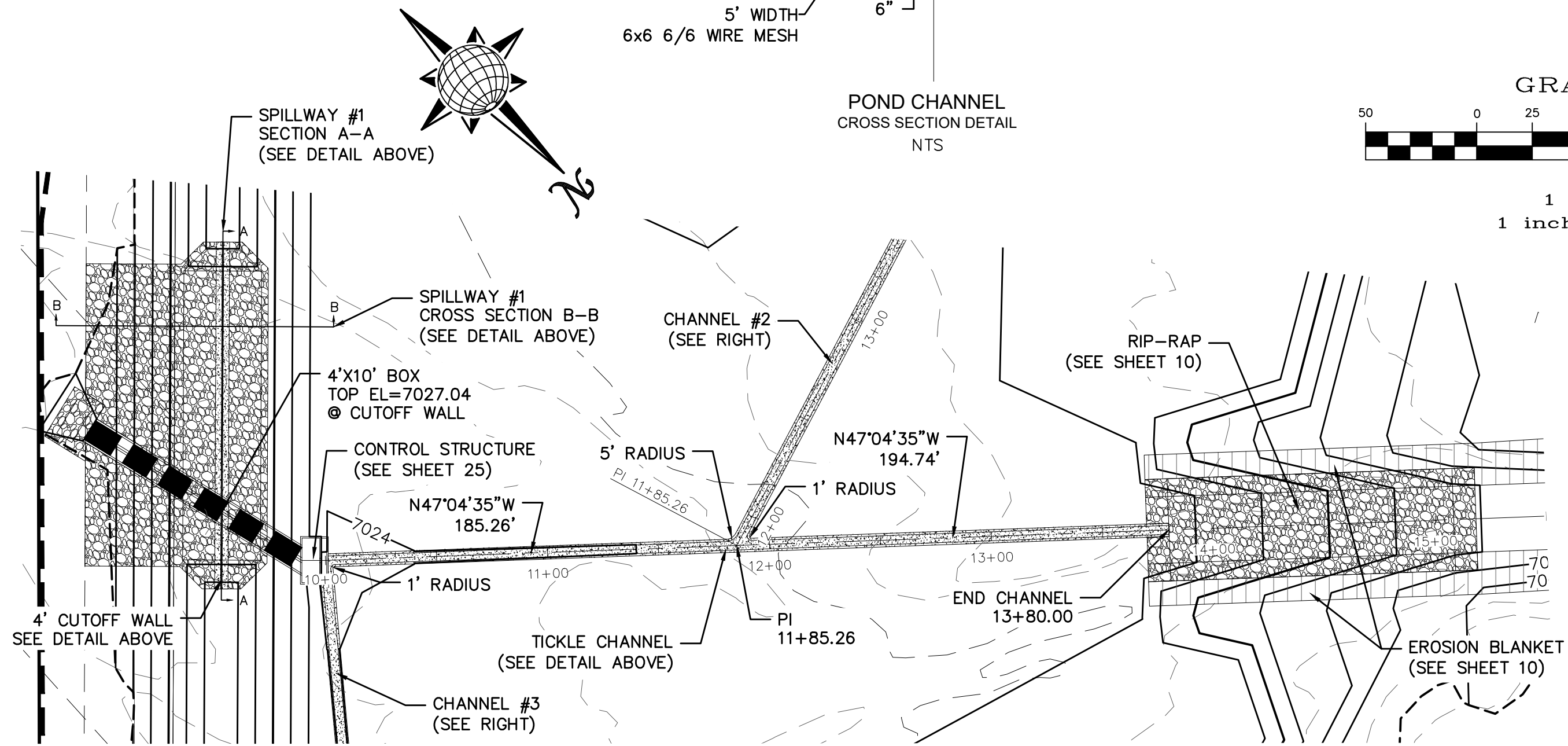
INDEX MAP N.T.S.

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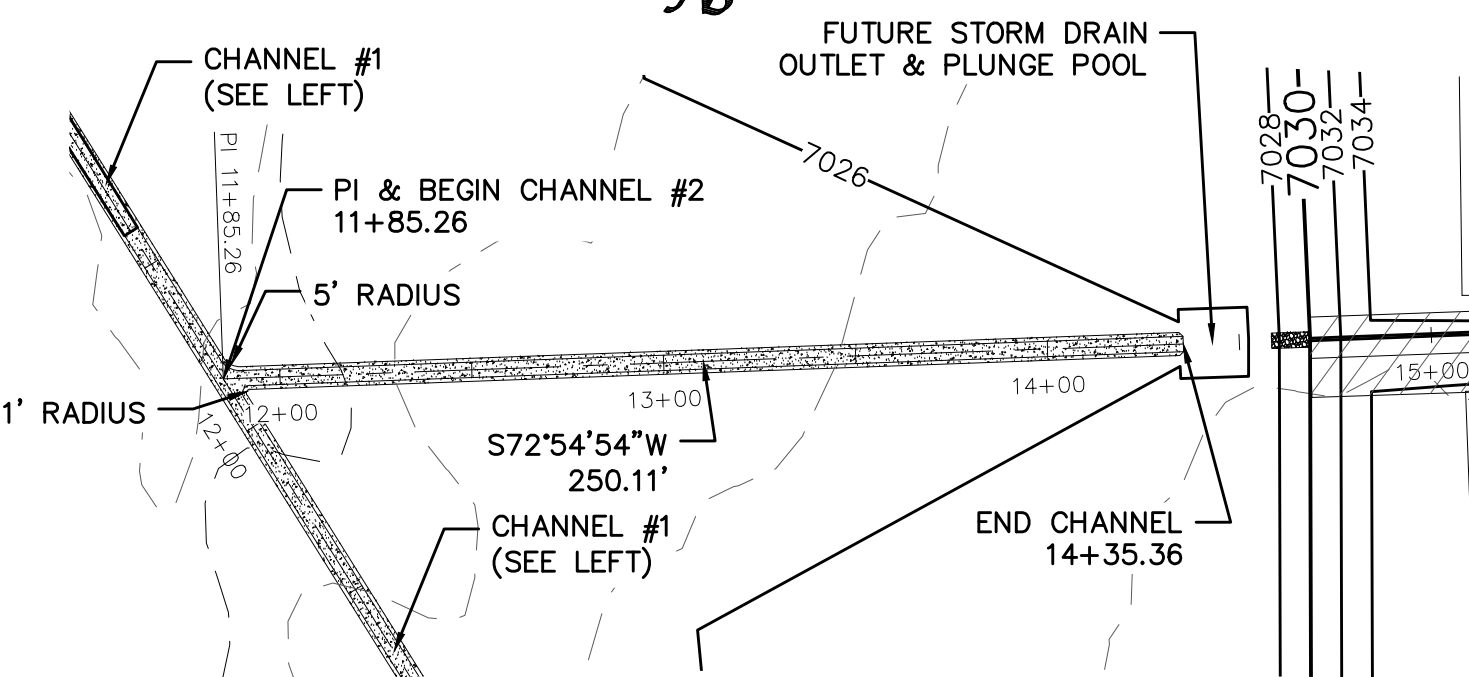
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.

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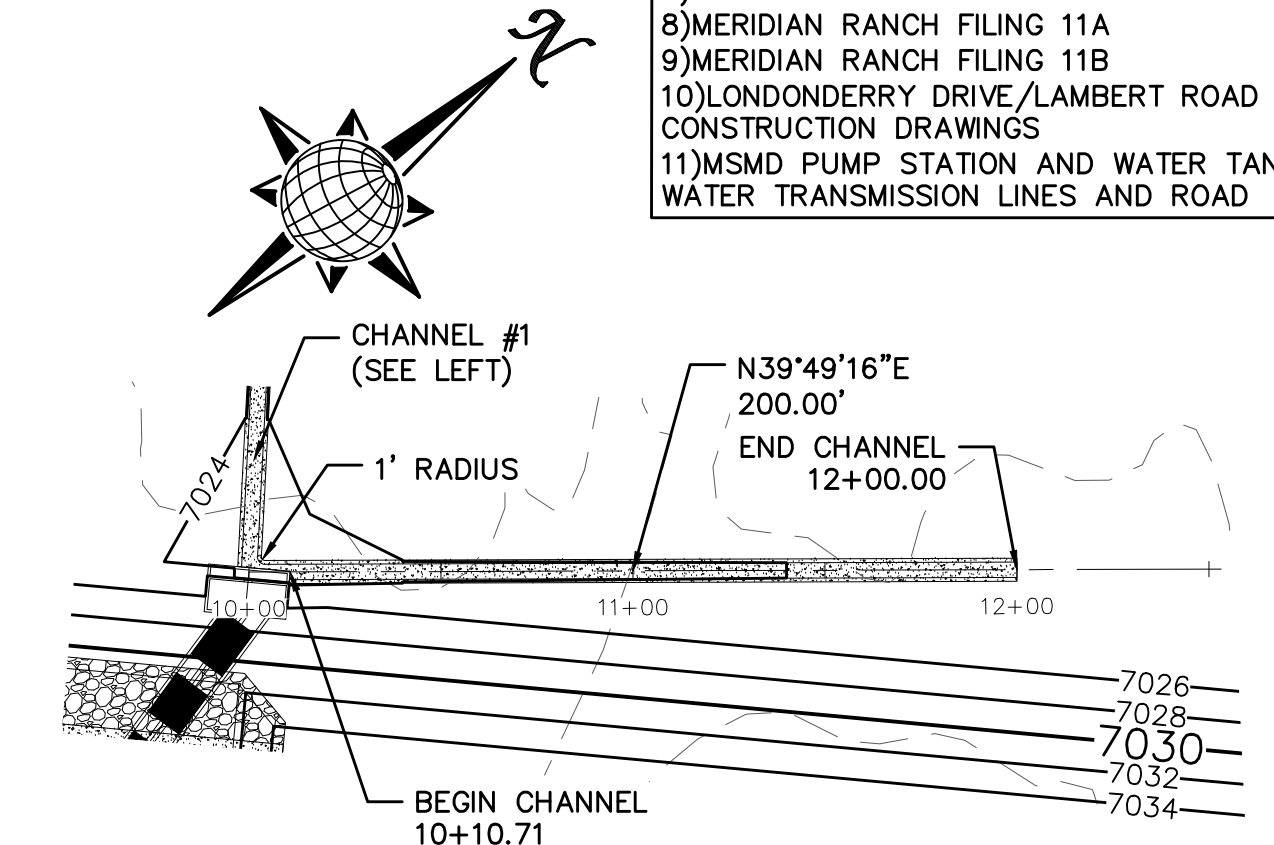
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- MERIDIAN RANCH FILING 11B
- LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
- MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



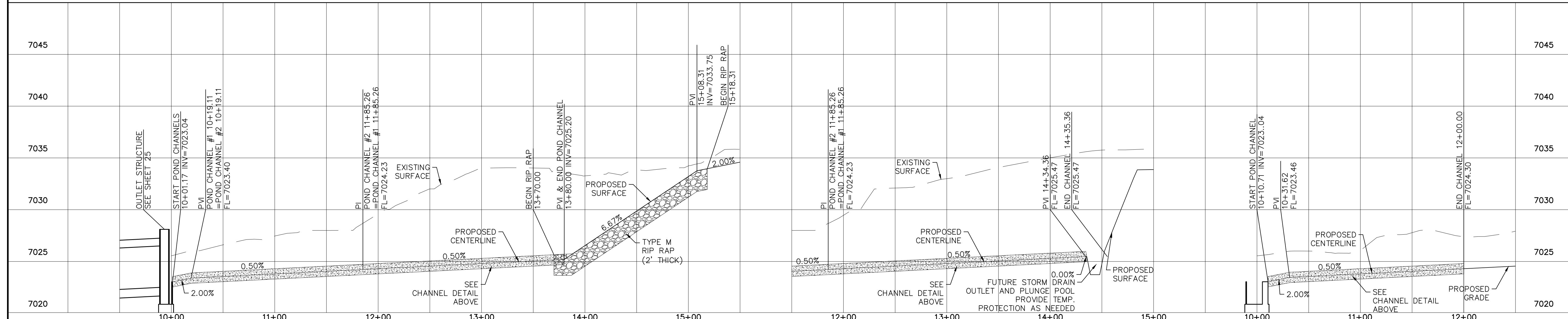
POND CHANNEL #1



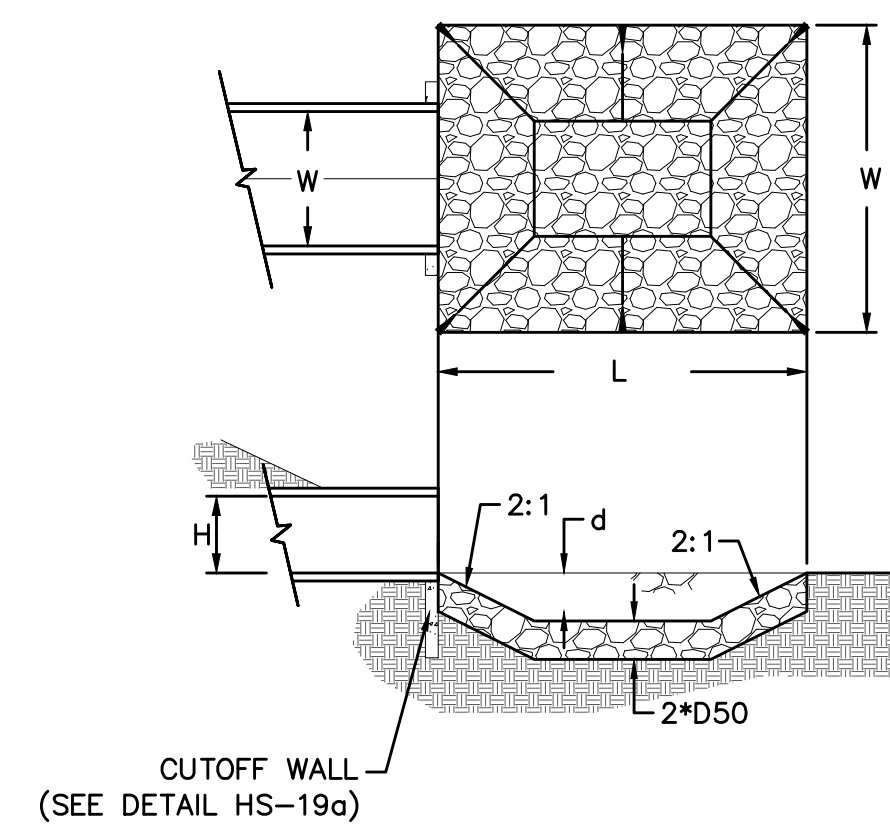
POND CHANNEL #2



POND CHANNEL #3



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 DETAIL SHEET</p>							
Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK	Date	JAN 2020
	24 of 28						

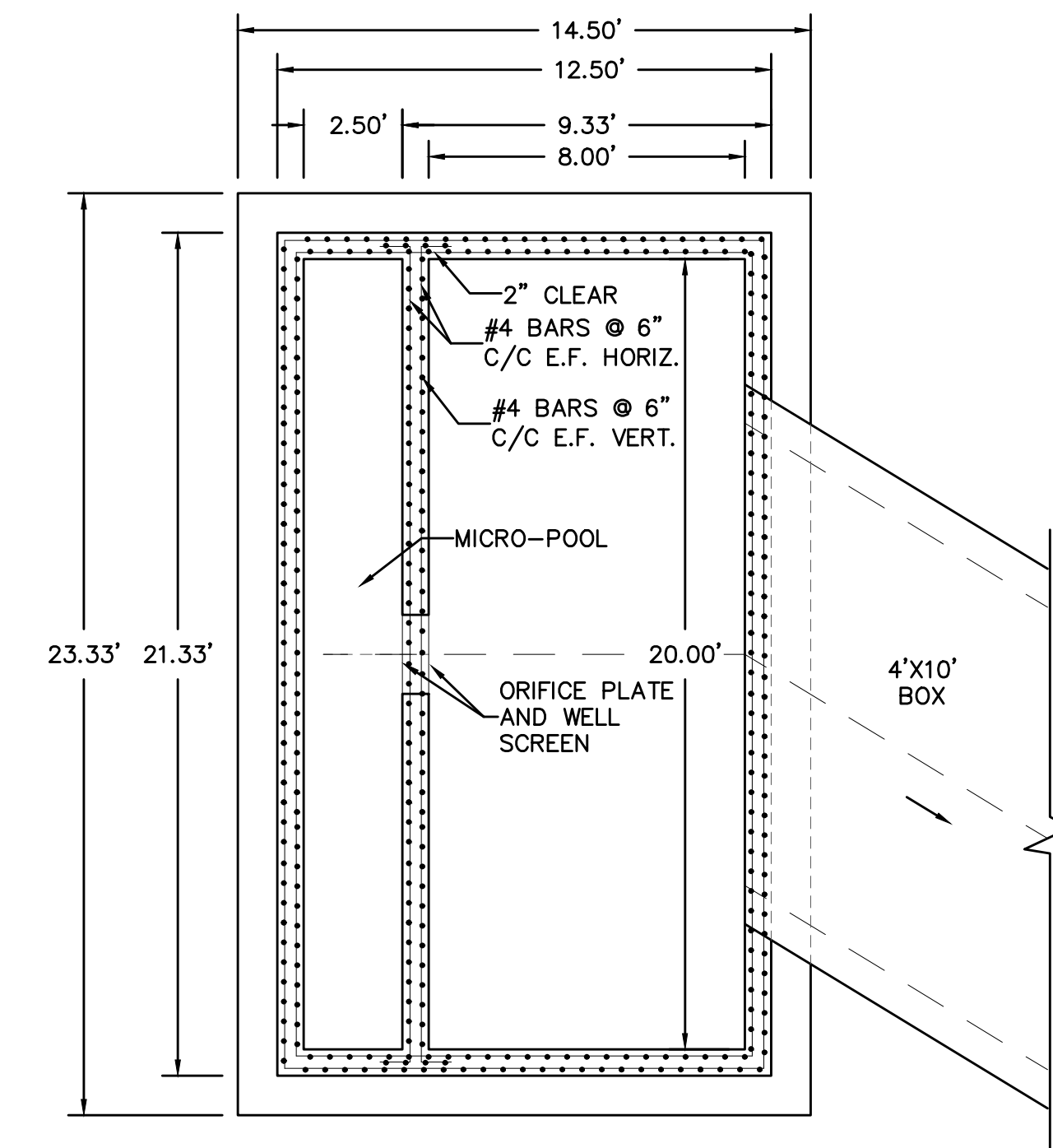


URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED*)
Figure HS-19. Culvert and Outlet Erosion Protection
*RIP RAP RECTANGULAR POOL

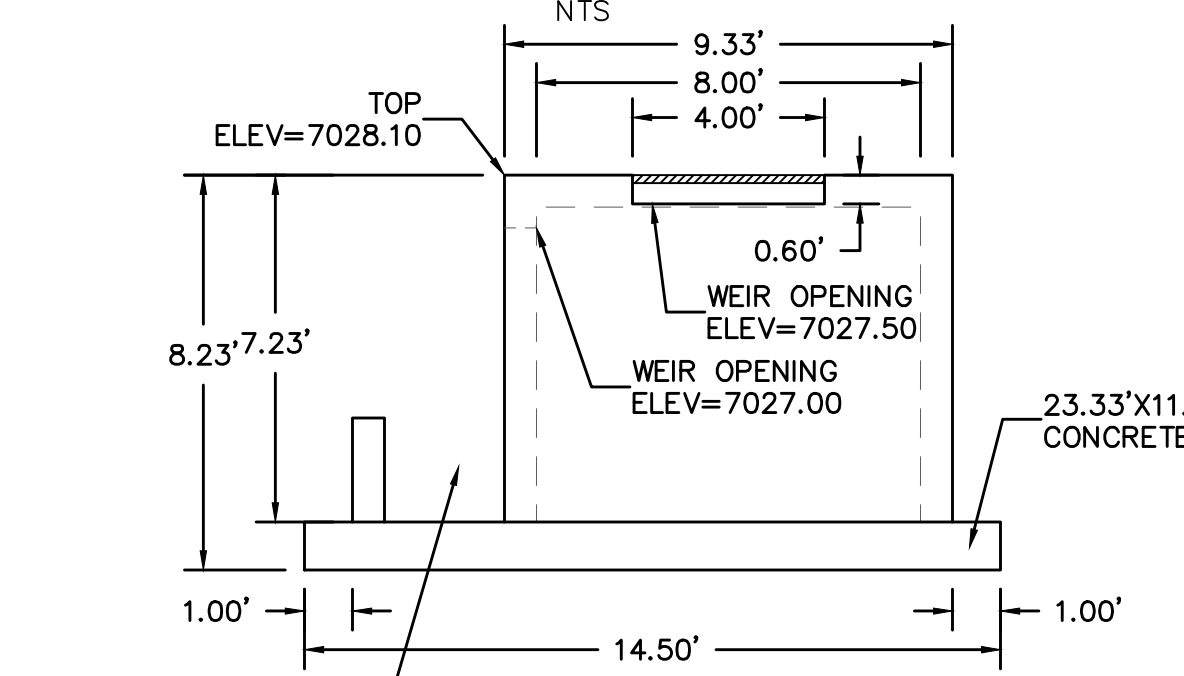
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
Figure HS-19a. Culvert Cutoff Wall

POND G
OUTLET PROTECTION DETAIL
NTS

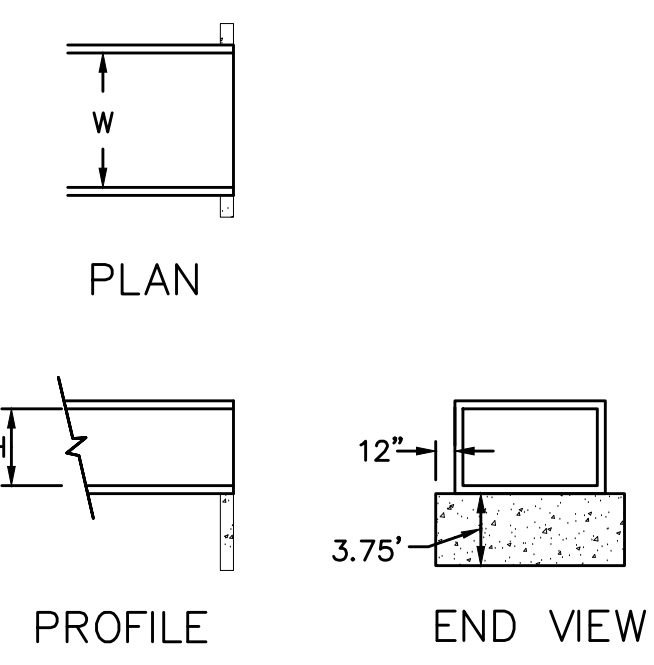
PIPE OUTLET	L	W	d	TYPE	D ₉₀	CY	NOTES
POND G 4'x10' BOX	16.0	26.0	2.0	M	1.00'	33.0	SEE BELOW



DETAIL 1.1
OUTLET STRUCTURE
PLAN VIEW
NTS



DETAIL 1.3
OUTLET STRUCTURE
SIDE VIEW
NTS



PROFILE
END VIEW



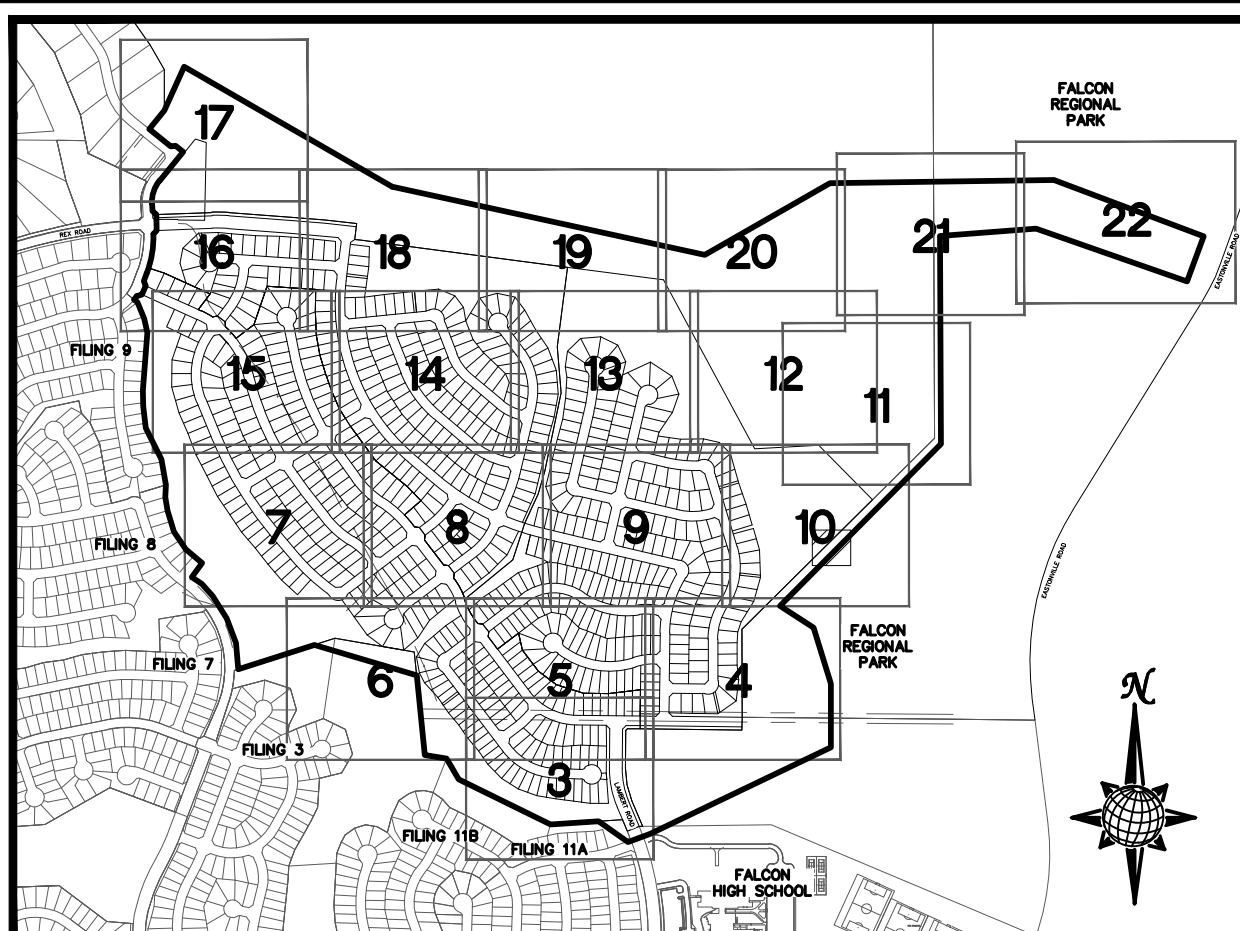
Pond G construction plans will be reviewed with the required MH-Detention worksheet.
For information only: Include the UD-BMP design worksheet with the relevant final plat that's constructing the future forebay. UD-BMP includes the calculation for the forebay sizing and notch. Also see UDFCD DCM Vol 2 Chapter 9 for baffle structure design at the forebay (Fig 9-43).

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 27.
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)ESTATES FILING 2 AT MERIDIAN RANCH
2)ESTATES FILING 3 AT MERIDIAN RANCH
3)CUTHRIE 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

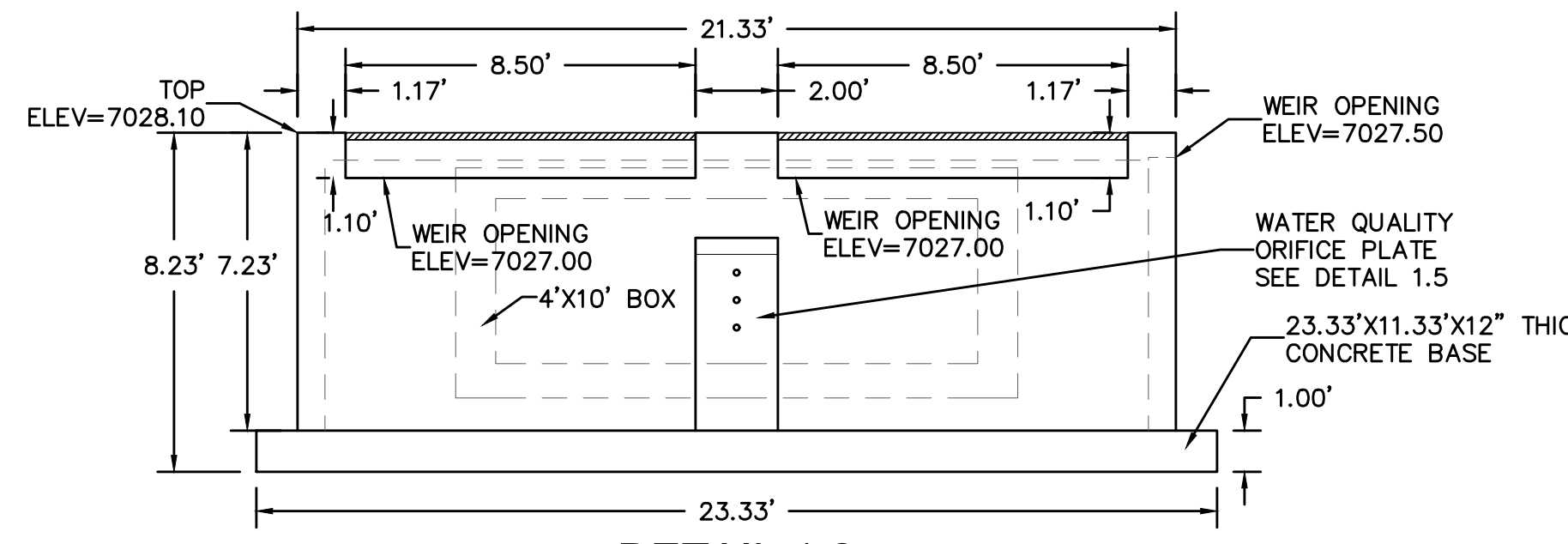
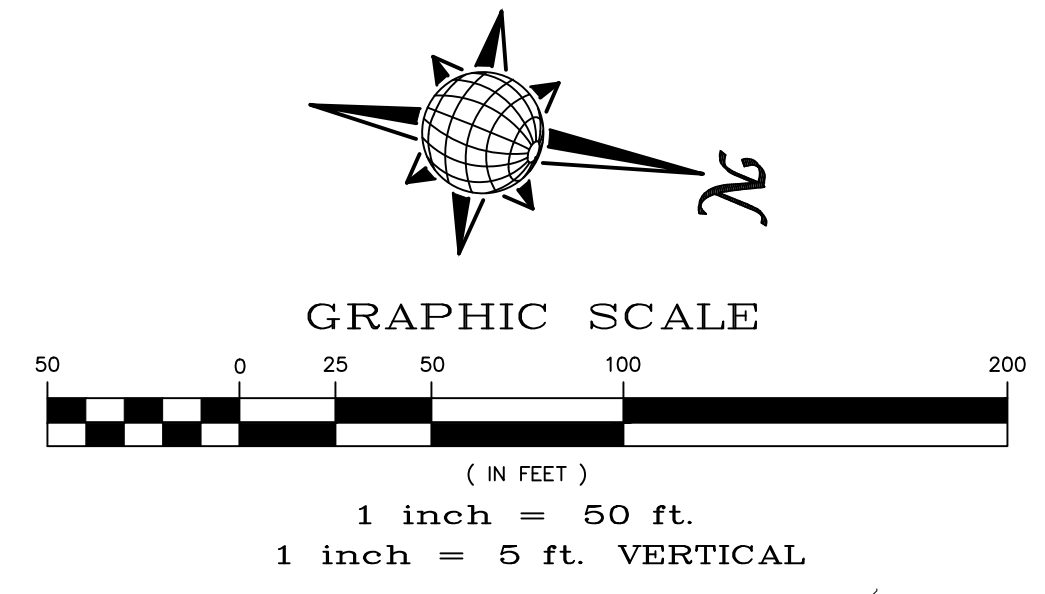
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
[Symbol]		STRAW BALES
[Symbol]		EROSION DETAILLES PER DETAIL SHEET 28
[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]	VTG	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
[Symbol]	IP	INLET PROTECTION PER DETAIL SHEET 28
[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

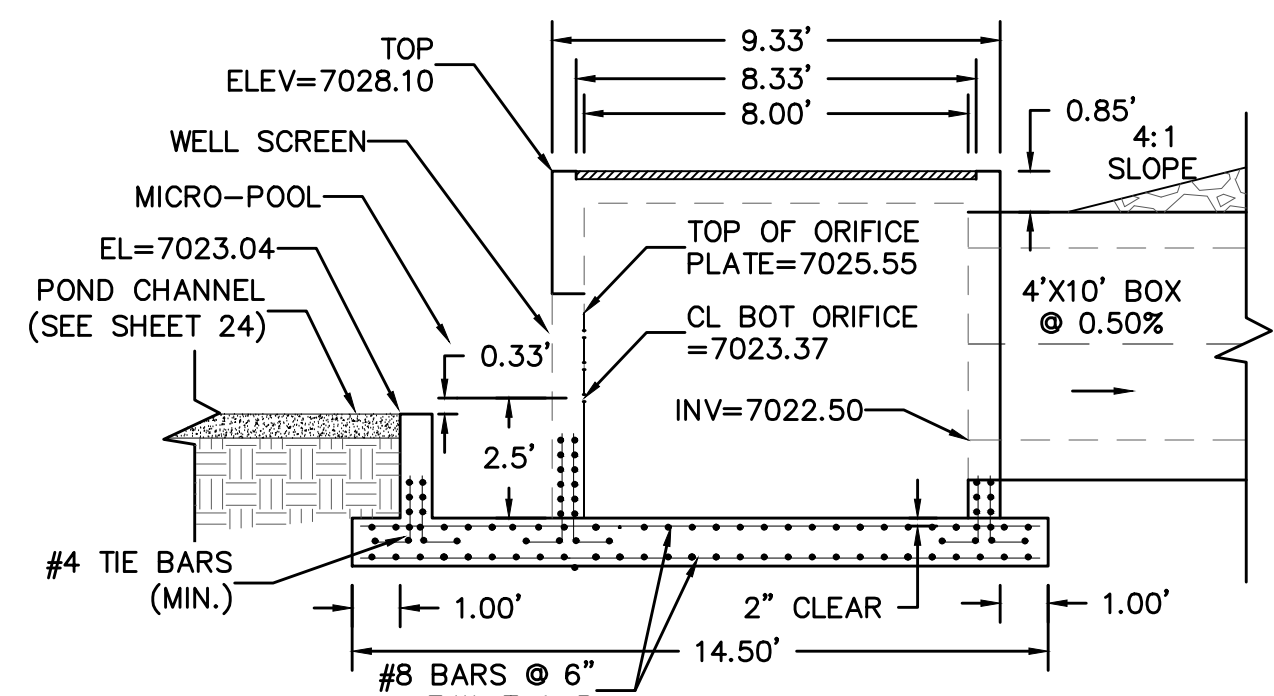
NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE 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.



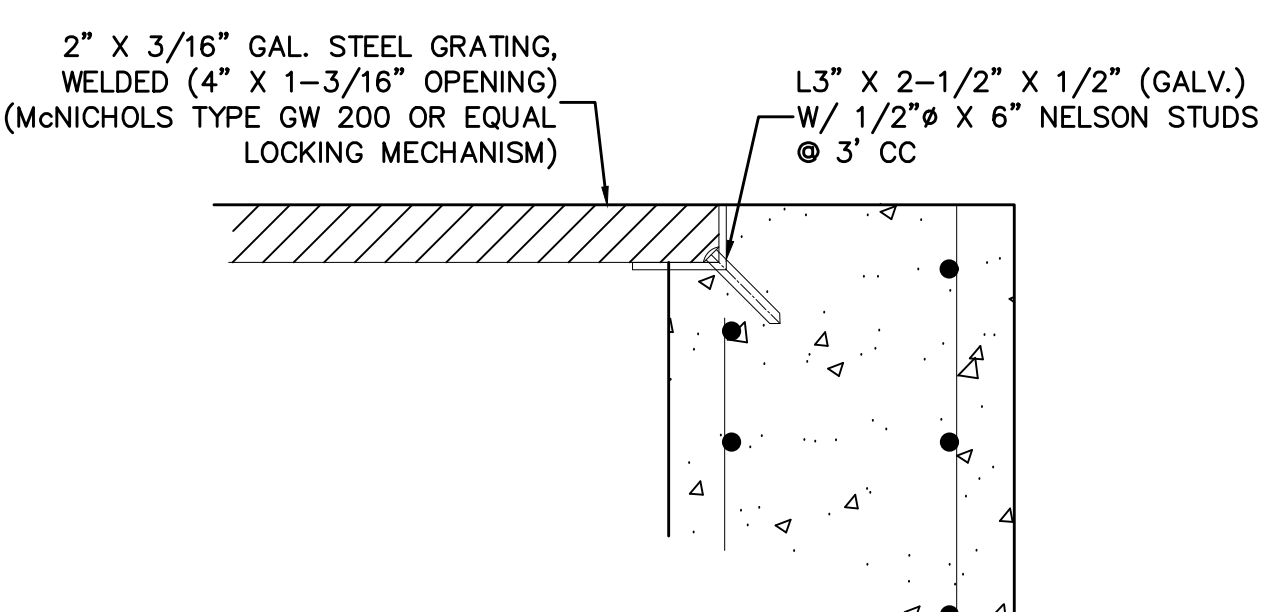
INDEX MAP
N.T.S.



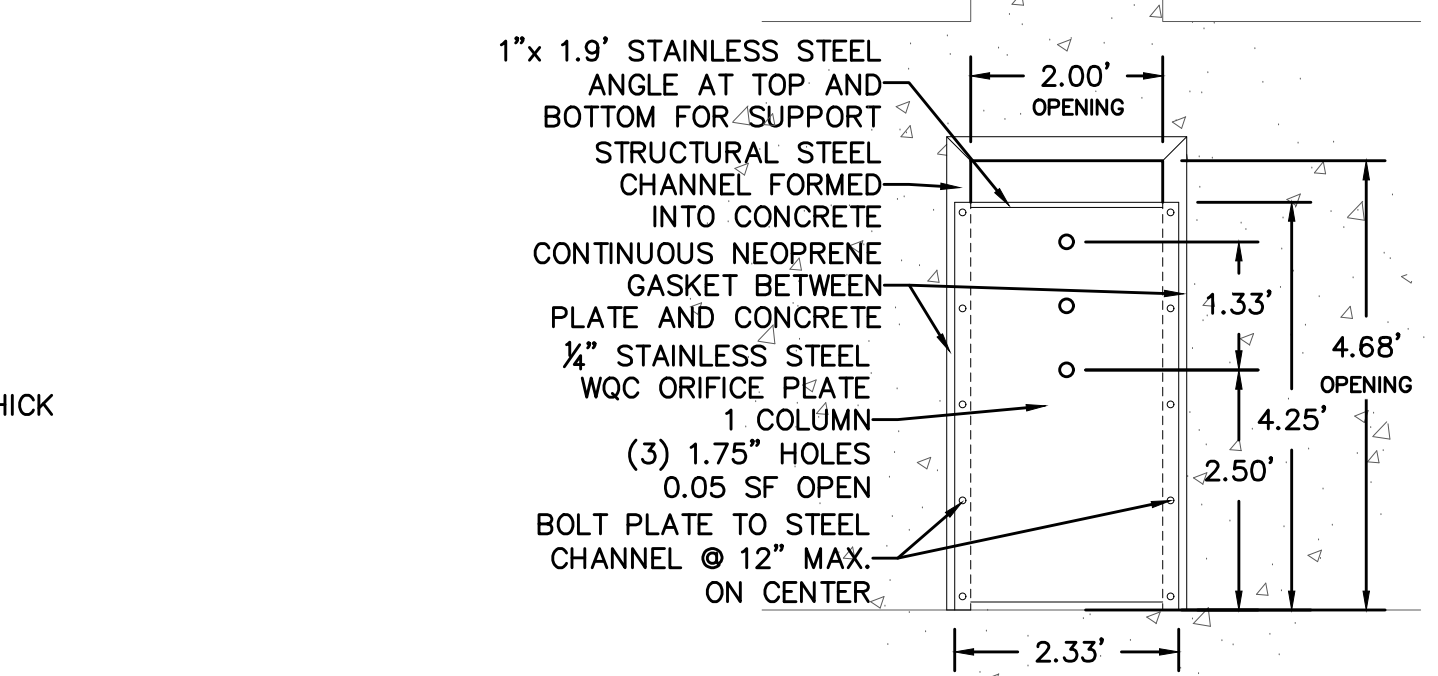
DETAIL 1.2
OUTLET STRUCTURE
FRONT VIEW
NTS



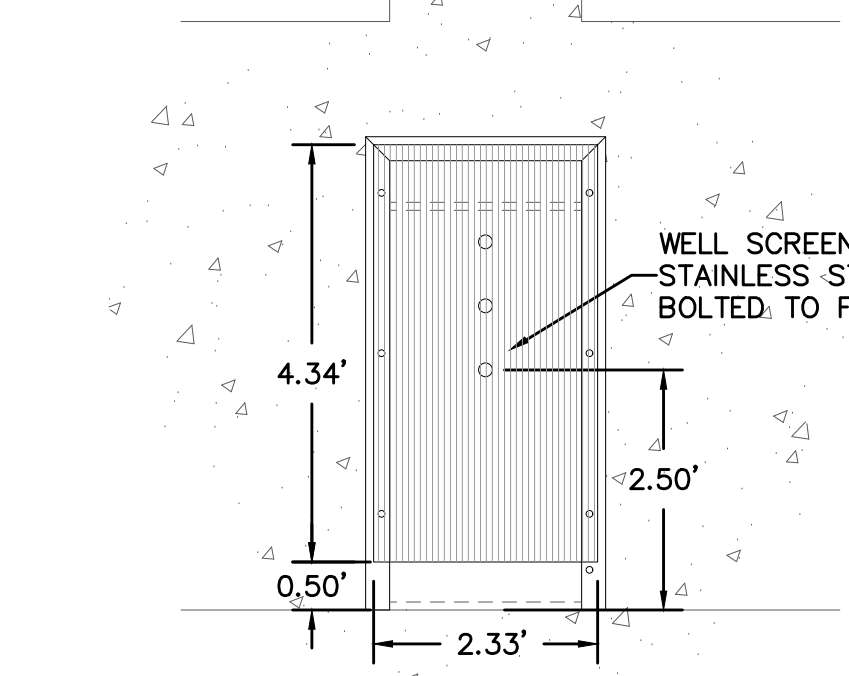
DETAIL 1.4
OUTLET STRUCTURE
CROSS SECTION
NTS



DETAIL 1.6
GRATE
NTS

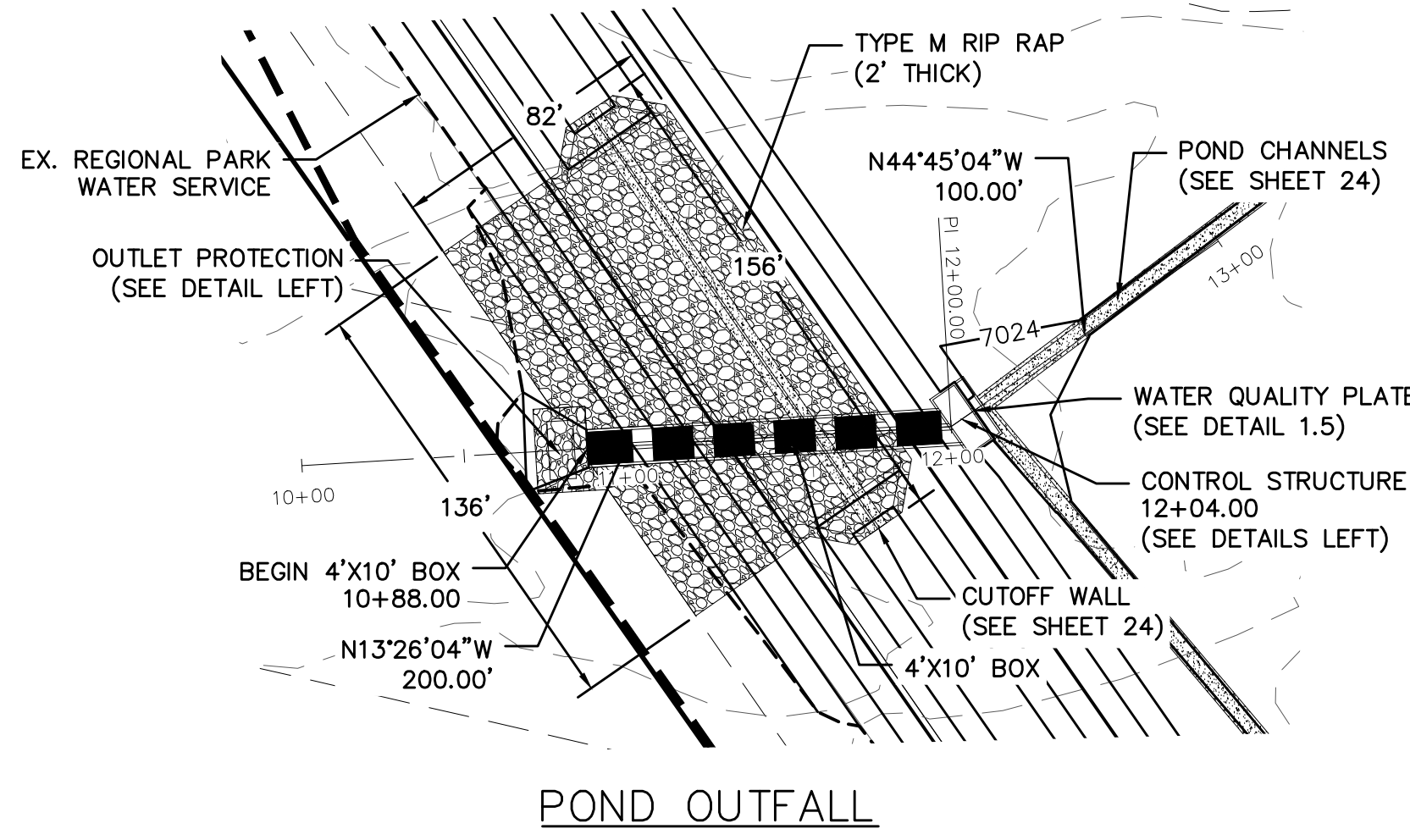


INSIDE FACE ORIFICE PLATE

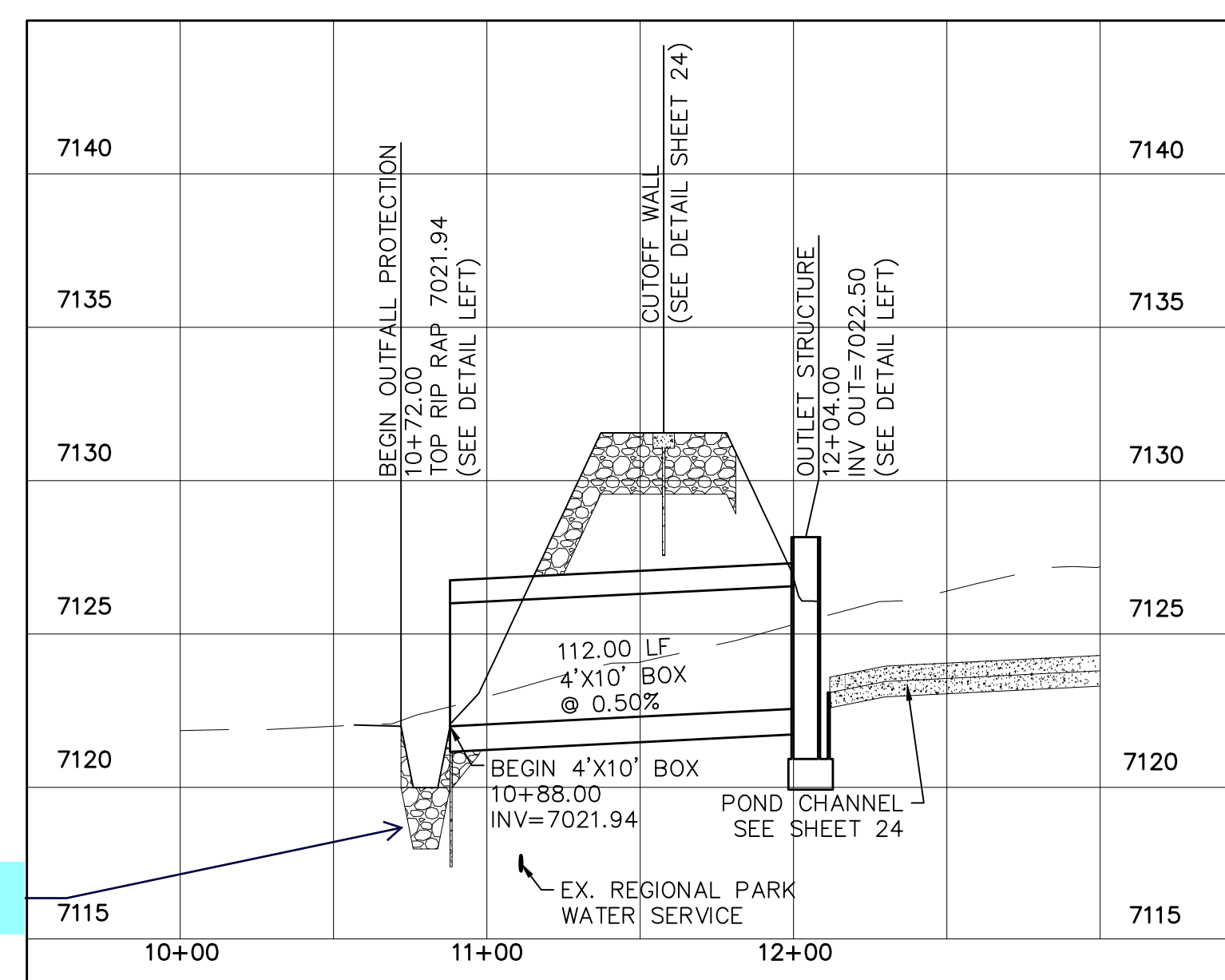


DETAIL 1.5
OUTLET STRUCTURE
WATER QUALITY PLATE
NTS

OUTSIDE FACE WELL SCREEN



POND OUTFALL



Scale AS SHOWN 25 of 28

TECH CONTRACTORS
11886 STAPLETON DRIVE
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

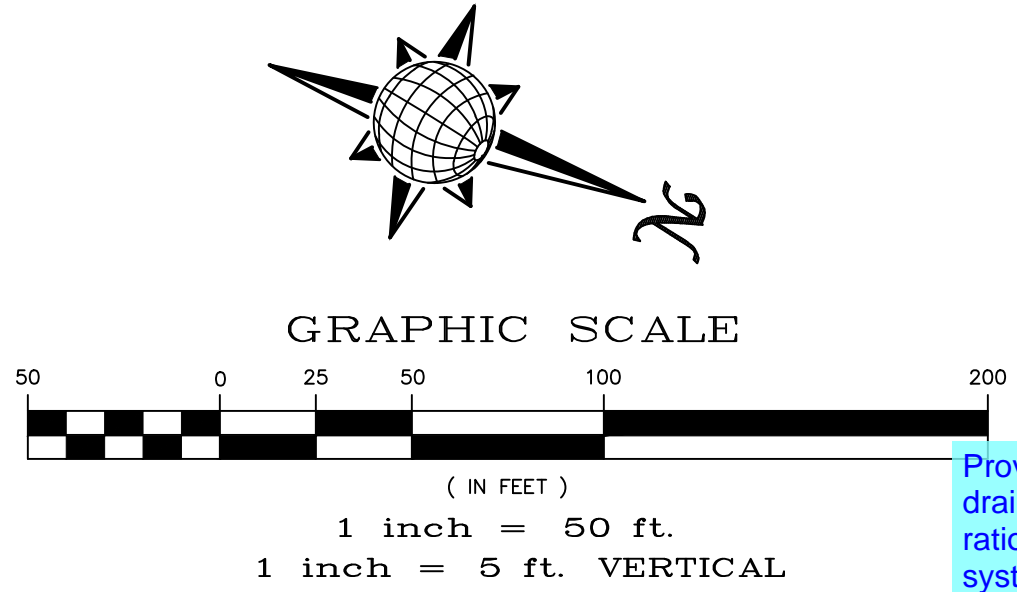
Drawn by LOG
Checked by TJK
Date JAN 2020

Scale AS SHOWN 25 of 28



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 27.

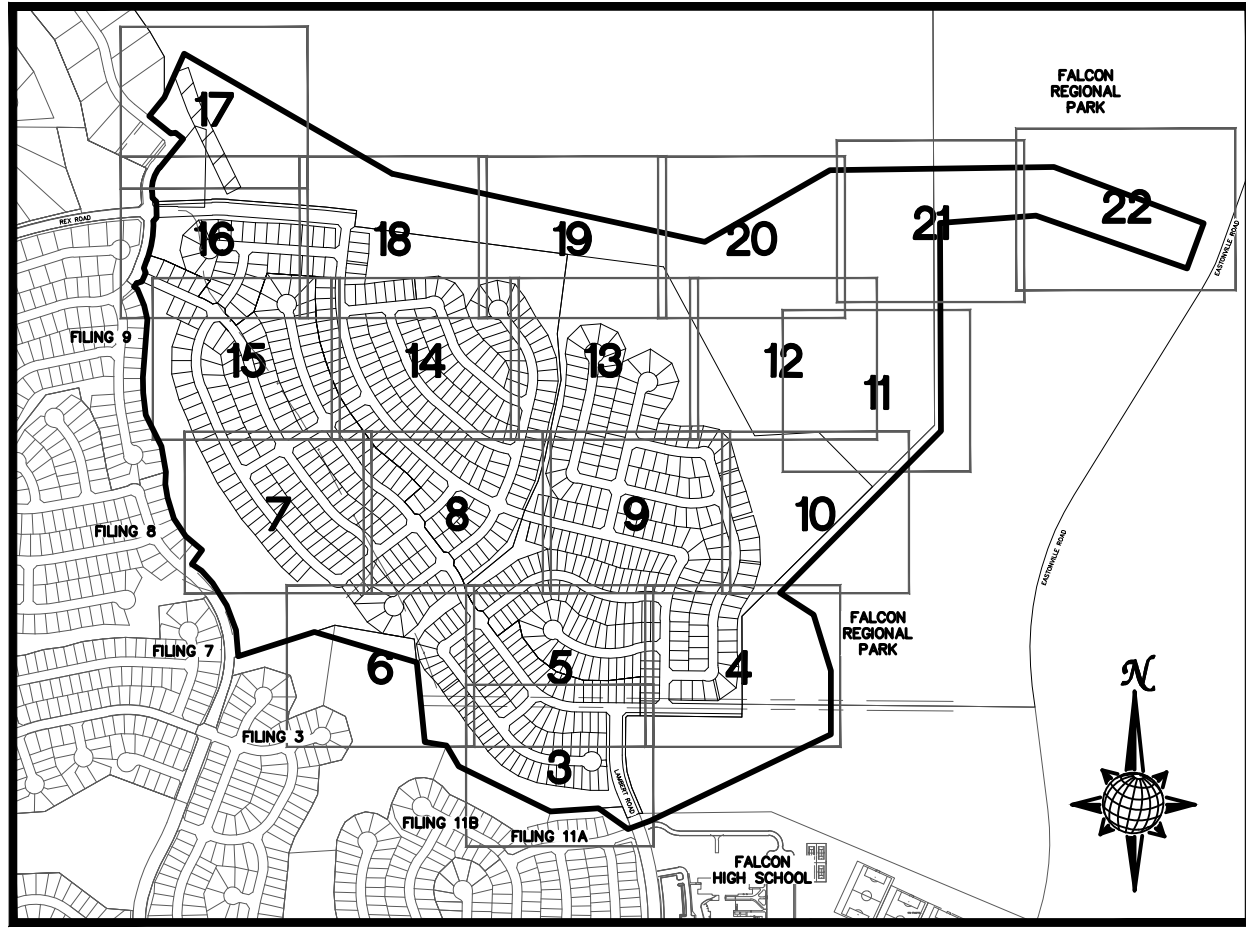
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
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9)MERIDIAN RANCH FILING 11B
10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



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 be required, just the storm line.

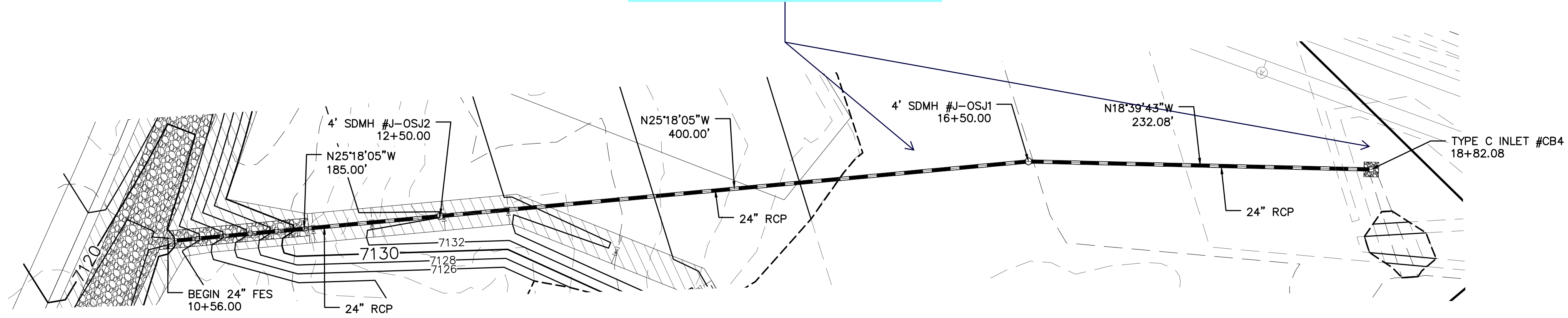
Update map



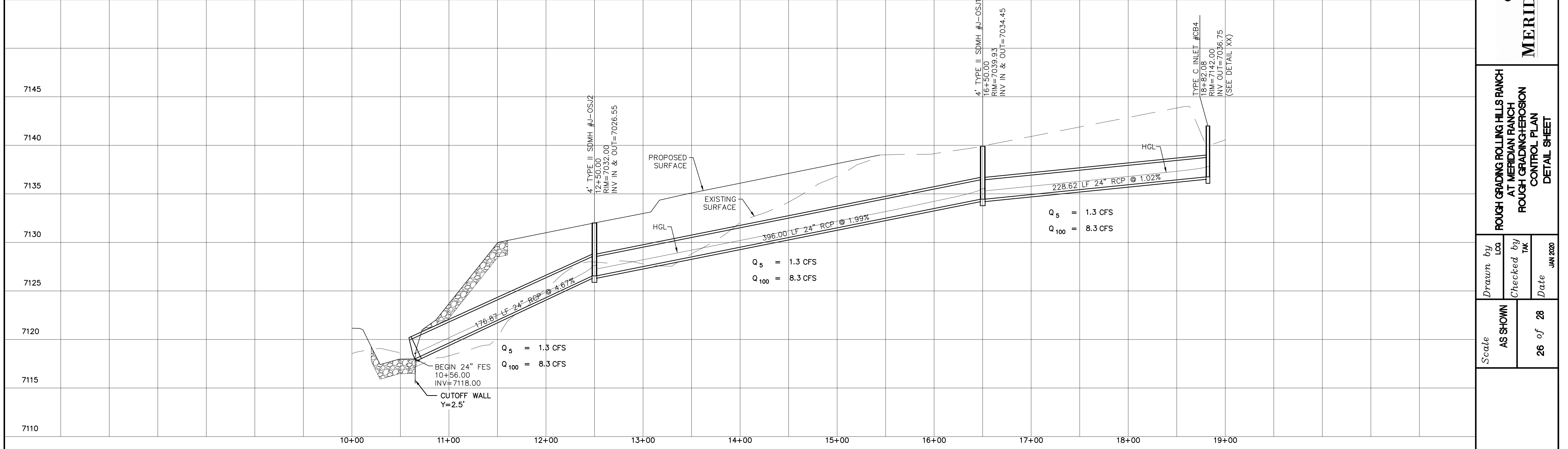
INDEX MAP
N.T.S.

LEGEND

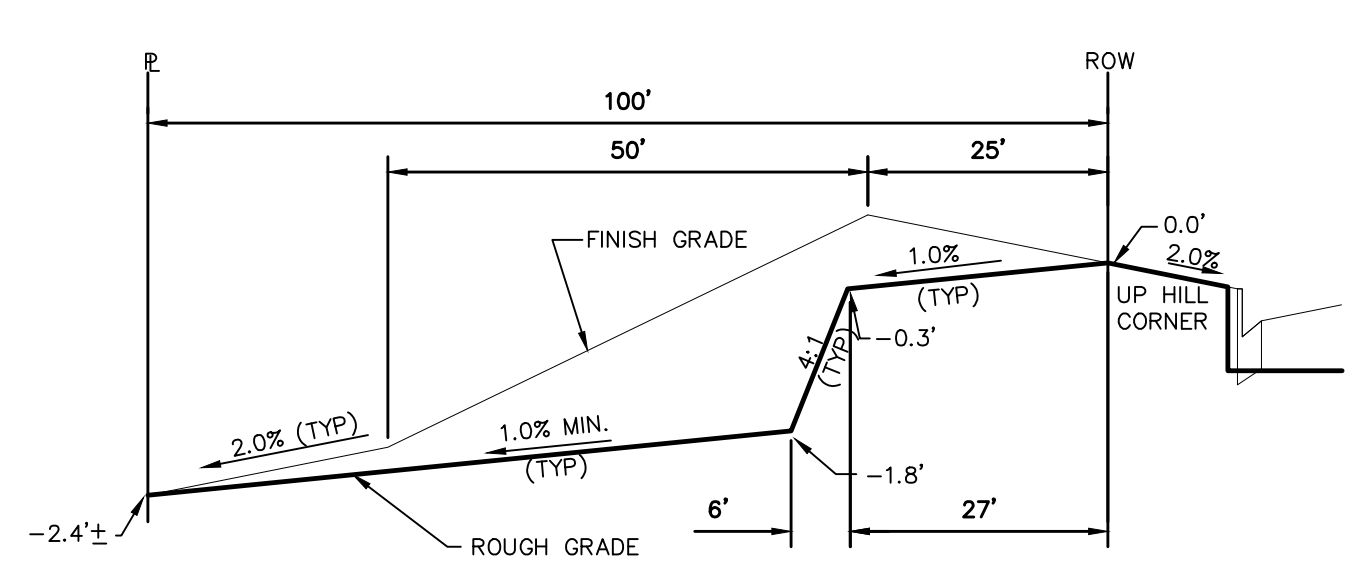
- | SYMBOL | ACRONYM | DESCRIPTION |
|--------|---------|--|
| | | STRAW BALES |
| | | EROSION WATTLES PER DETAIL SHEET 28 |
| | | EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2 |
| | RCP | REINFORCED CONCRETE PIPE |
| | SF | SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2 |
| | VTC | VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2 |
| | IP | INLET PROTECTION PER DETAIL SHEET 28 |
| | | 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. |



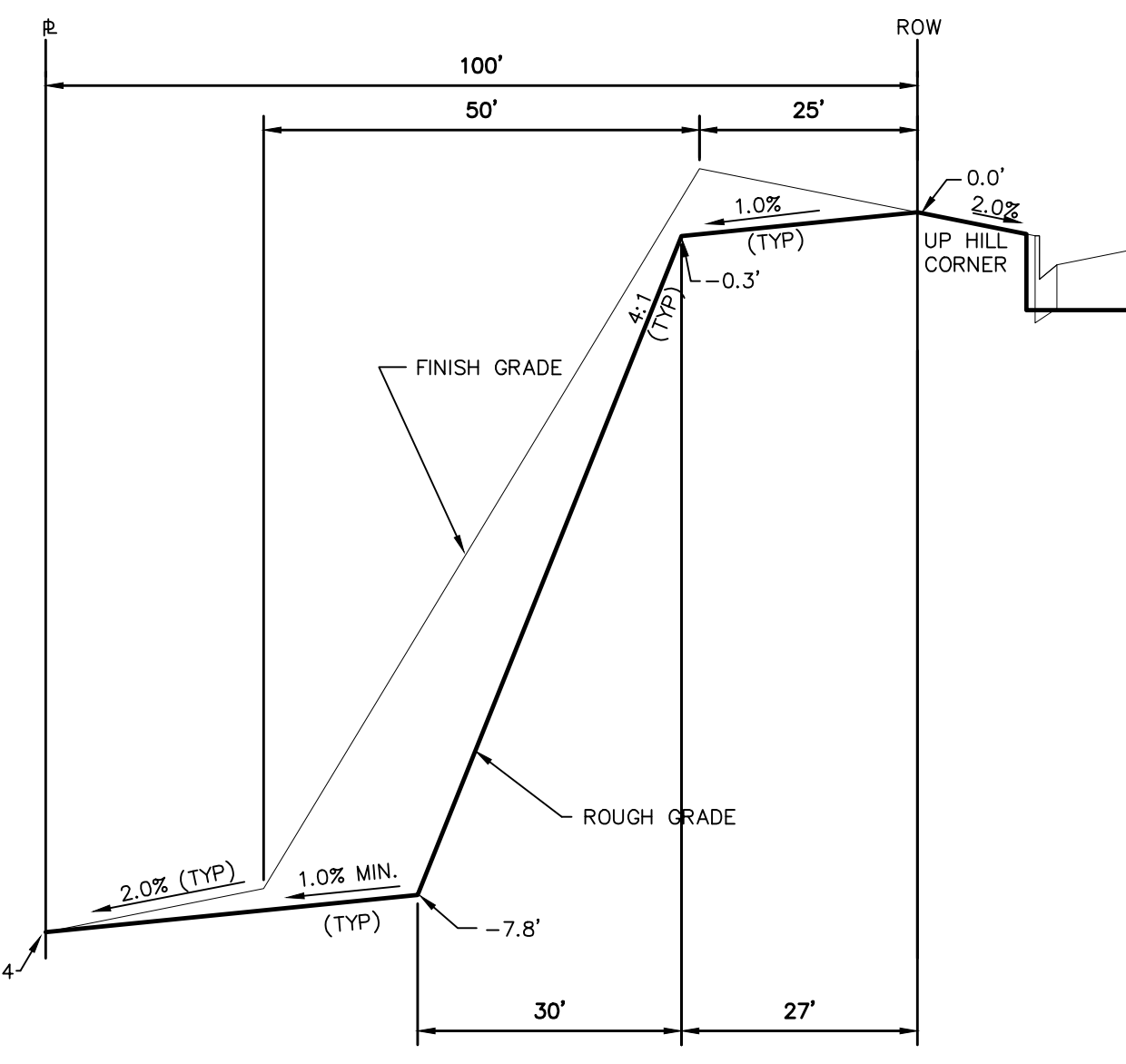
STORM #3



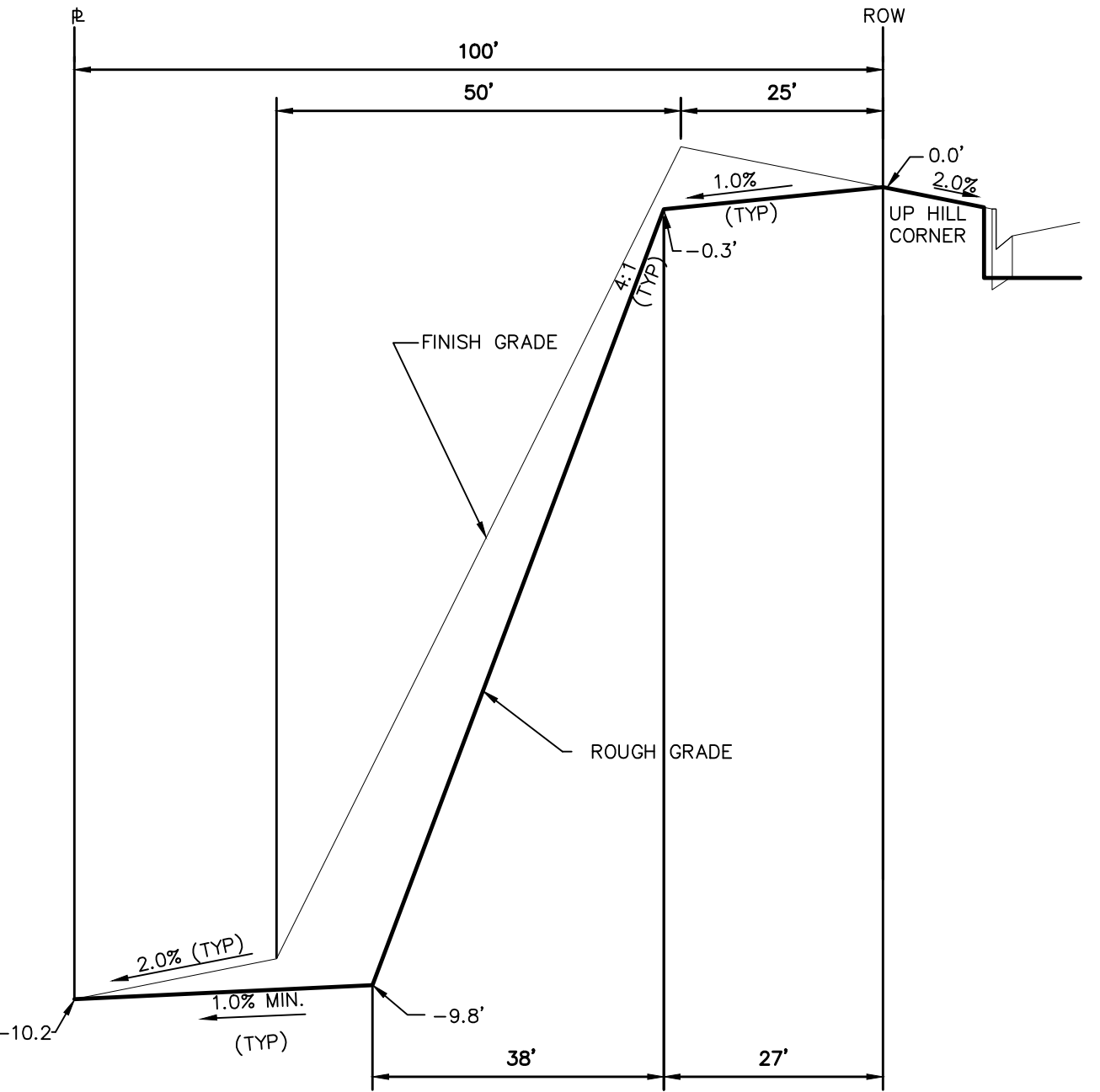
1	2	3	4	No.	Revisions	Date	Appr.
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>							
<p>MERIDIAN RANCH</p>							
<p>ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN DETAIL SHEET</p>							
Scale	AS SHOWN	26 of 28	<p>Drawn by: LOG Checked by: TMK Date: JAN 2020</p>				
<p>PCD PROJECT NO. PUDSP-199</p>							



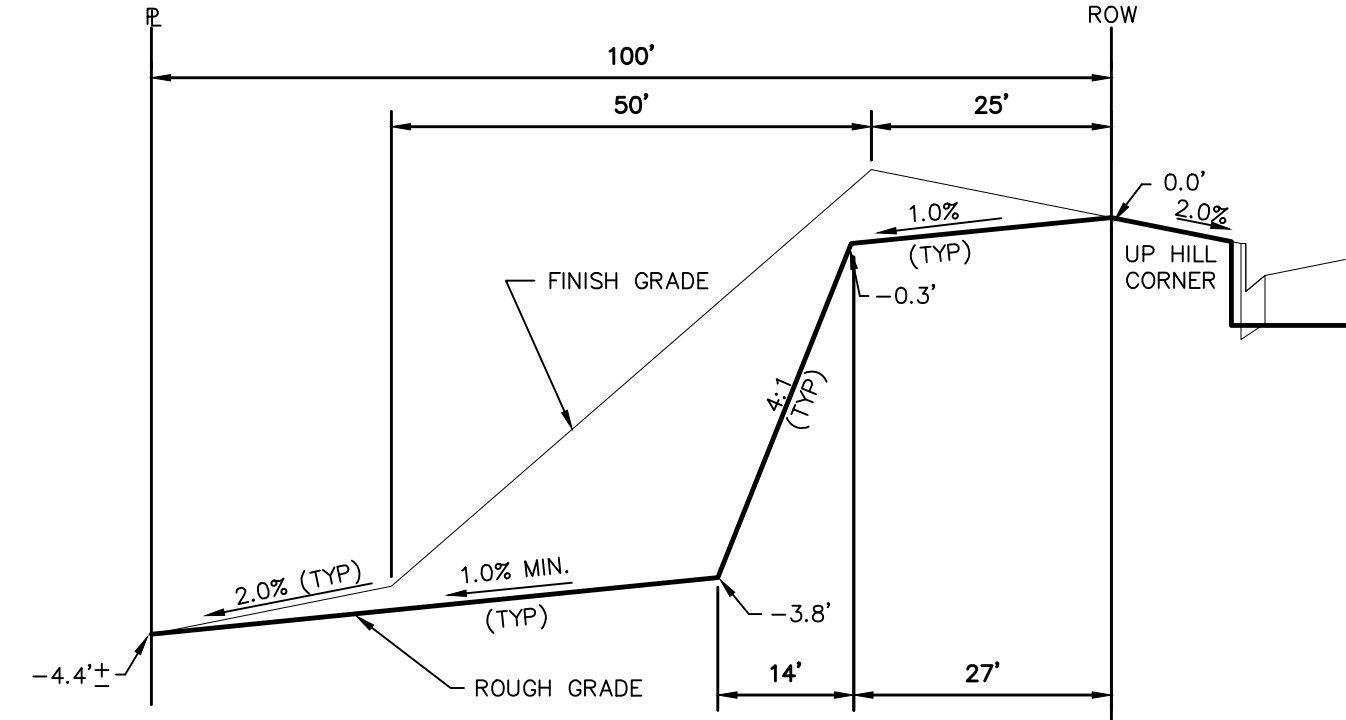
TYPICAL LOT "G2" TEMPLATES
NTS



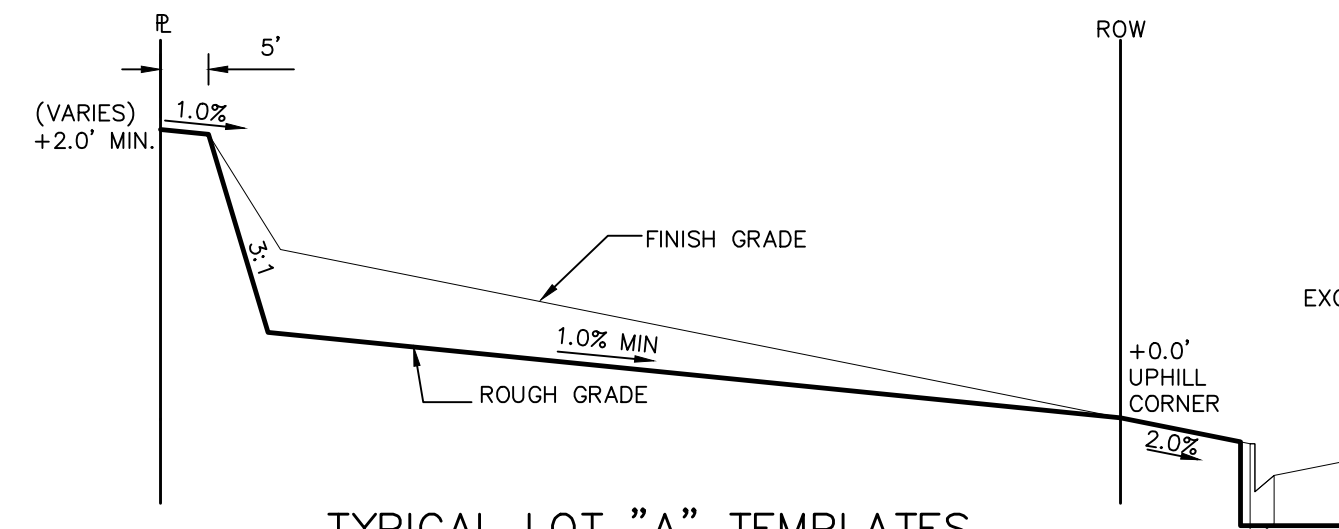
TYPICAL LOT "W8" TEMPLATES
NTS



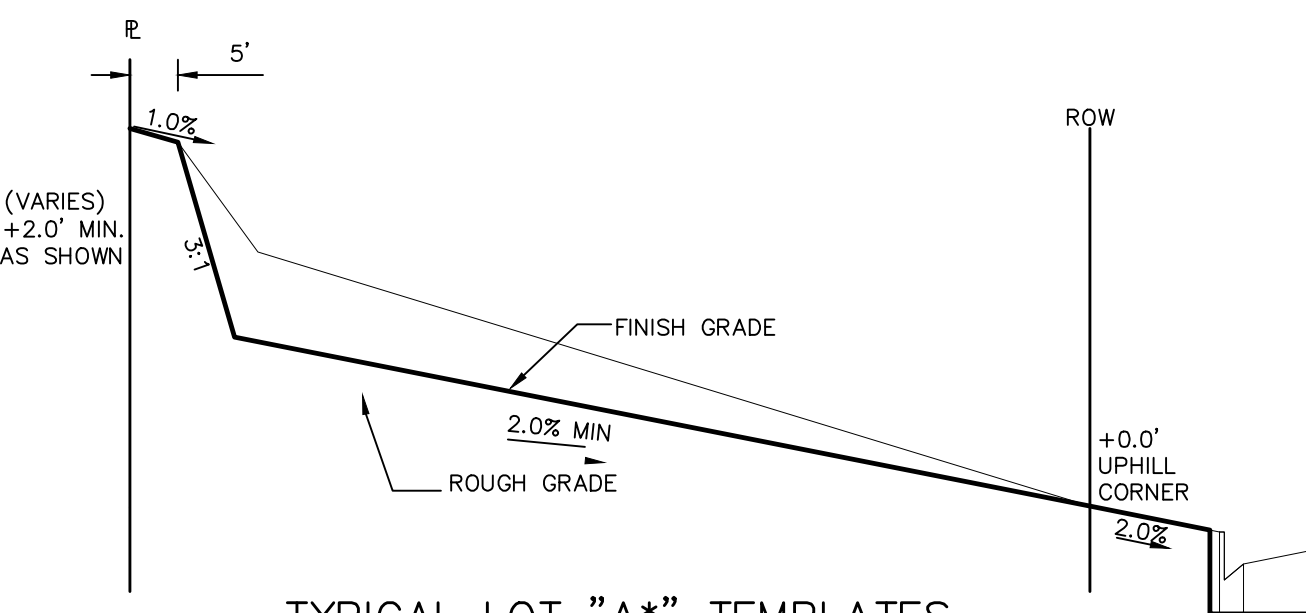
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NTS



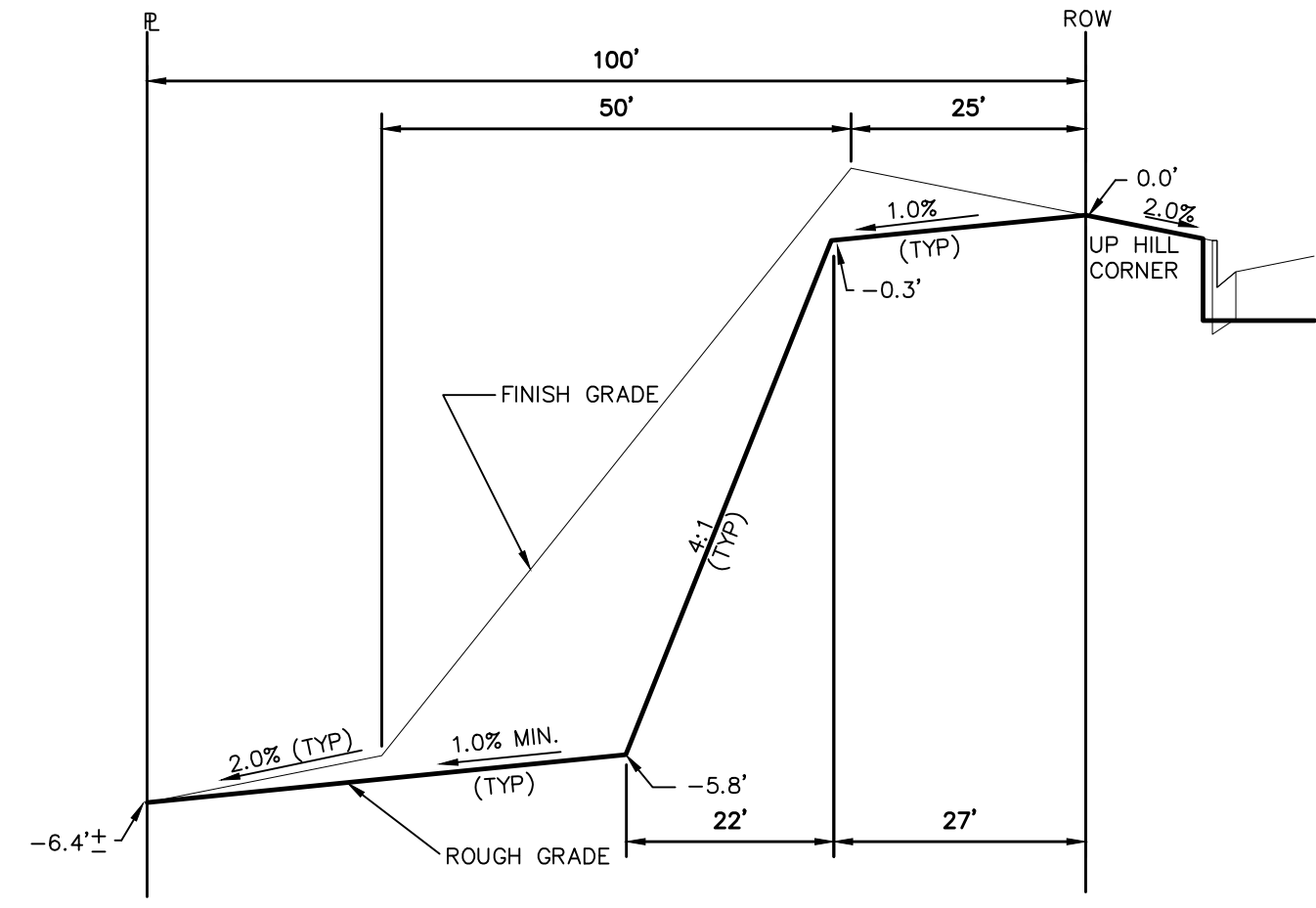
TYPICAL LOT "G4" TEMPLATES
NTS



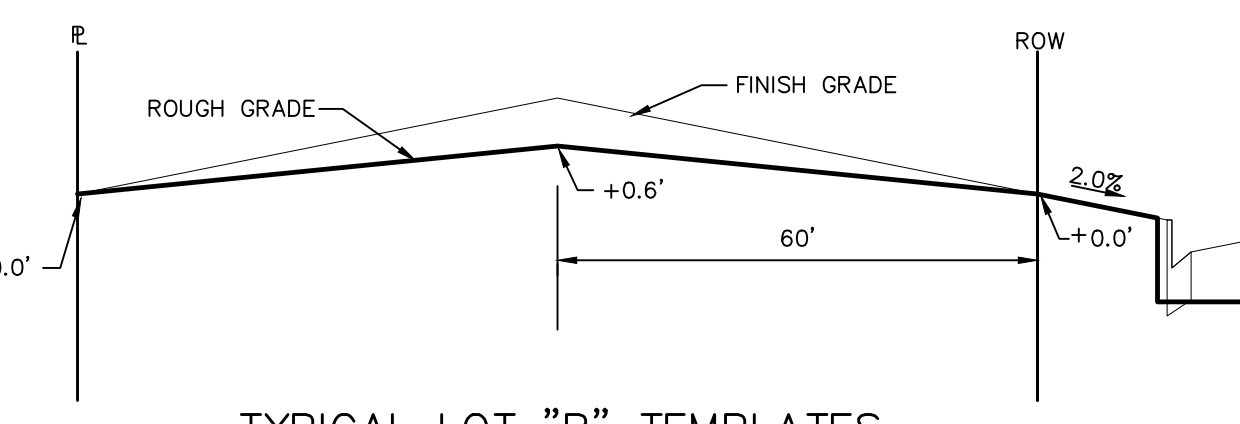
TYPICAL LOT "A" TEMPLATES
NTS



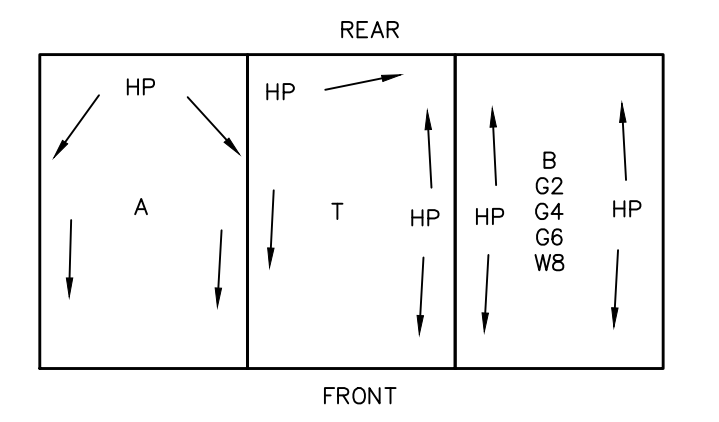
TYPICAL LOT "A*" TEMPLATES
NTS



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 OCTOBER 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

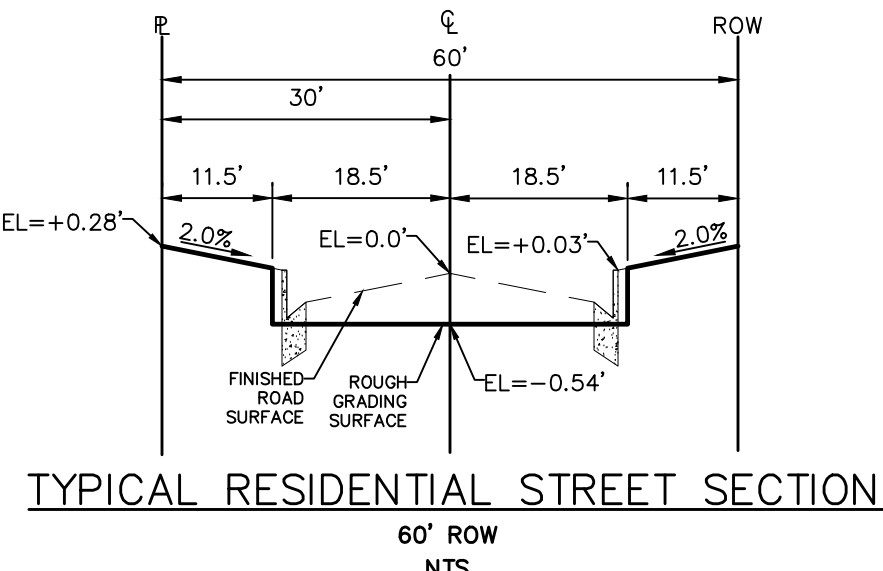
ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING OR BY HYDROMULCHING. 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:

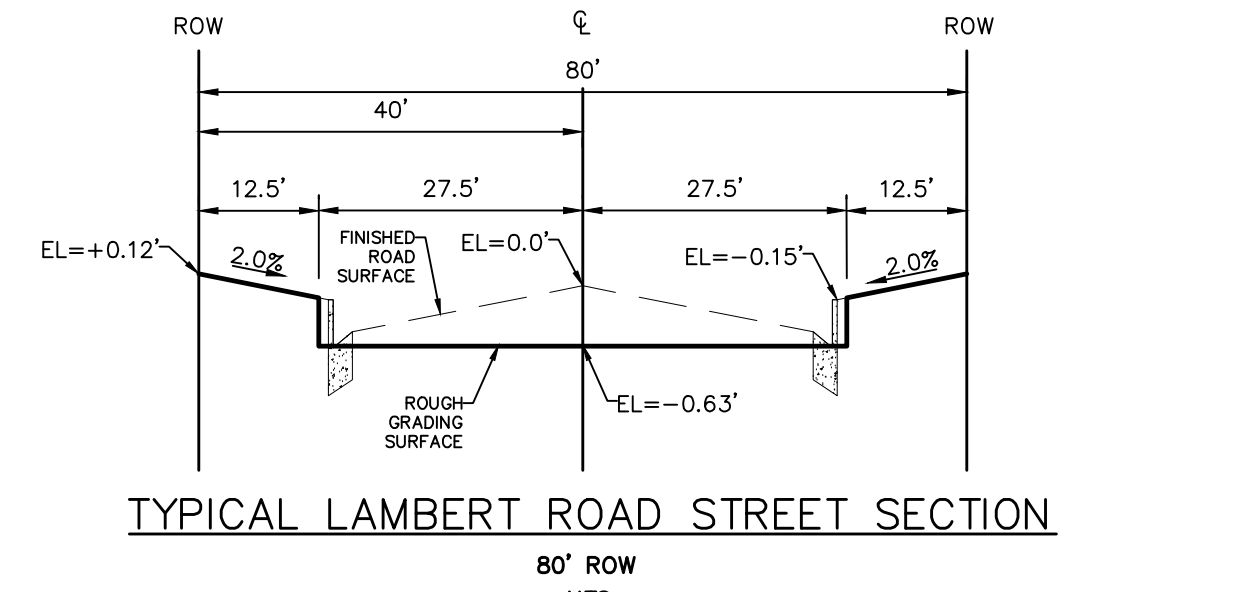
GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
SIDEOATS GRAMA	EL RENO	3.0
WESTERN WHEATGRASS	BARTON	2.5
SLENDER WHEATGRASS	NATIVE	2.0
LITTLE BLUESTERN	PASTURA	2.0
SAND DROPSEED	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0

NOTE:

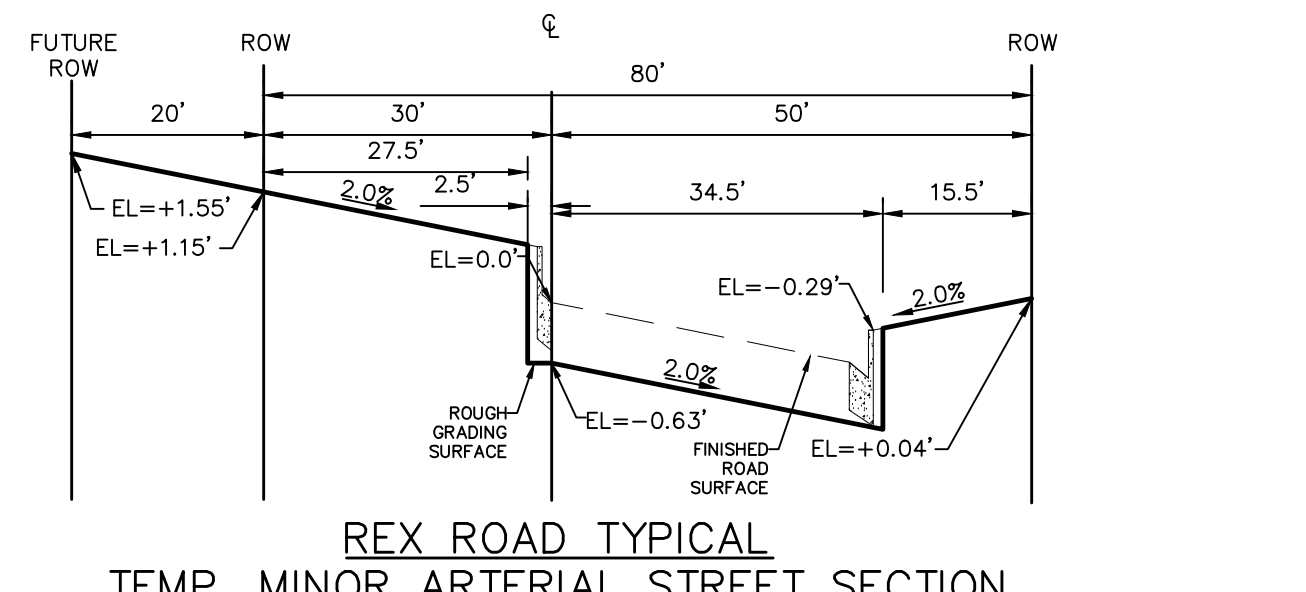
"FINISH GRADE" IN THE TEMPLATES ARE ONLY APPROXIMATE GRADES. ACTUAL FINISHED GRADES WILL VARY DEPENDING ON INDIVIDUAL HOME PLOT PLANS. PLOT PLANS SHALL CLOSELY FOLLOW THE FINISH GRADE PATTERNS SHOWN IN THE TEMPLATES WITHOUT ADVERSELY AFFECTING THE GRADES AND DRAINAGE PATTERNS OF NEIGHBORING LOTS OR TRACTS. 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



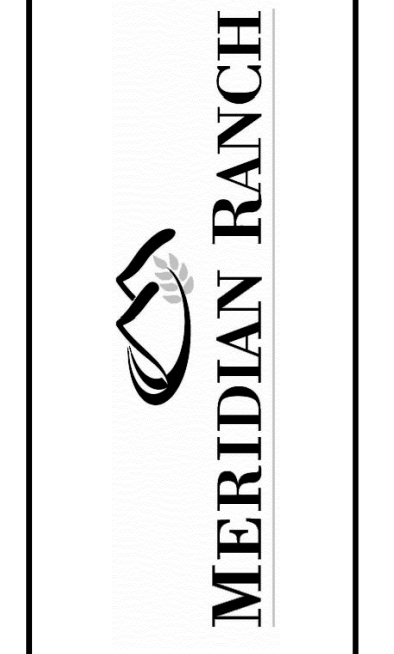
TYPICAL LAMBERT ROAD STREET SECTION
80' ROW
NTS



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

No.	Revisions	Date	Appr.
1			
2			
3			
4			

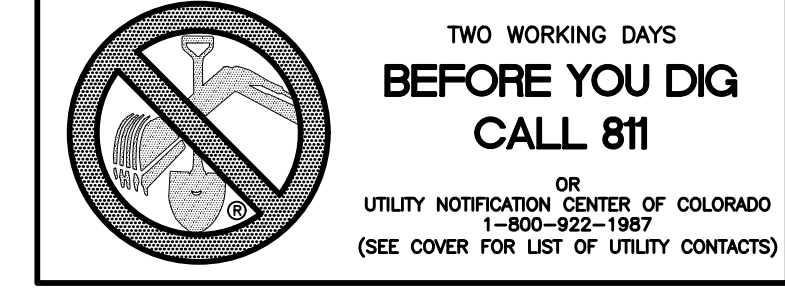
TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457



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

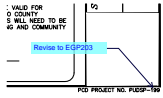
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Date: JAN 2020

Scale: AS SHOWN
27 of 28



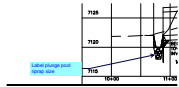
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Revise to EGP203



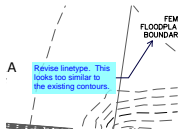
Subject: Callout
Page Label: 25
Author: dsdlaforce
Date: 3/18/2020 9:12:04 AM
Status:
Color: ■
Layer:
Space:

Label plunge pool riprap size



Subject: Callout
Page Label: 6
Author: dsdlaforce
Date: 3/19/2020 1:44:21 PM
Status:
Color: ■
Layer:
Space:

Move table to cover sheet.



Subject: Callout
Page Label: 6
Author: dsdlaforce
Date: 3/19/2020 1:46:04 PM
Status:
Color: ■
Layer:
Space:

Revise linetype. This looks too similar to the existing contours.



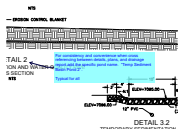
Subject: Callout
Page Label: 13
Author: dsdlaforce
Date: 3/19/2020 2:40:11 PM
Status:
Color: ■
Layer:
Space:

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.



Subject: Callout
Page Label: 7
Author: dsdlaforce
Date: 3/19/2020 3:01:47 PM
Status:
Color: ■
Layer:
Space:

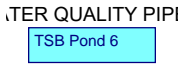
Make sure to explain in the narrative for the tributary subbasin or within the temp sediment pond section why 42" pipe is used. Review engineer is assuming this is designed/constructed based on subdivision buildout and will remain in place after the temp pond is removed. Be advised this is installed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



Subject: Callout
Page Label: 23
Author: dsdlaforce
Date: 3/19/2020 3:12:39 PM
Status:
Color: ■
Layer:
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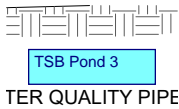
For consistency and convenience when cross referencing between details, plans, and drainage report add the specific pond name. "Temp Sediment Basin Pond 2".

Typical for all



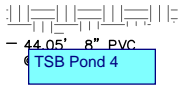
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Author: dsdlaforce
Date: 3/19/2020 3:14:55 PM
Status:
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Layer:
Space:

TSB Pond 6



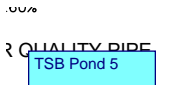
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Page Label: 23
Author: dsdlaforce
Date: 3/19/2020 3:17:04 PM
Status:
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TSB Pond 3



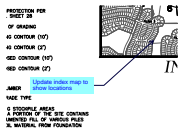
Subject: Text Box
Page Label: 23
Author: dsdlaforce
Date: 3/19/2020 3:17:56 PM
Status:
Color: ■
Layer:
Space:

TSB Pond 4



Subject: Text Box
Page Label: 23
Author: dsdlaforce
Date: 3/19/2020 3:18:55 PM
Status:
Color: ■
Layer:
Space:

TSB Pond 5



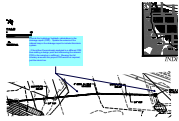
Subject: Callout
Page Label: 24
Author: dsdlaforce
Date: 3/19/2020 3:25:44 PM
Status:
Color: ■
Layer:
Space:

Update index map to show locations

Update map

Subject: Callout
Page Label: 26
Author: dsdlaforce
Date: 3/19/2020 3:29:53 PM
Status:
Color: ■
Layer:
Space:

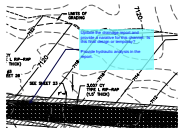
Update map



Subject: Callout
Page Label: 26
Author: dsdlaforce
Date: 3/19/2020 3:40:19 PM
Status:
Color: ■
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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.

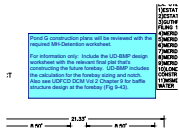
- If the inflow Q was already analyzed in a different FDR then adding a design point and referencing the relevant FDR in the narrative is sufficient. Showing the full tributary area with this project FDR would not required, just the storm line.



Subject: Callout
Page Label: 16
Author: dsdlaforce
Date: 3/19/2020 3:43:49 PM
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Update the drainage report and provide a narrative for this channel. Is this final design or temporary?

Provide hydraulic analysis in the report.



Subject: Text Box
Page Label: 25
Author: dsdlaforce
Date: 3/19/2020 4:00:13 PM
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Pond G construction plans will be reviewed with the required MH-Detention worksheet.

For information only: Include the UD-BMP design worksheet with the relevant final plat that's constructing the future forebay. UD-BMP includes the calculation for the forebay sizing and notch. Also see UDFCD DCM Vol 2 Chapter 9 for baffle structure design at the forebay (Fig 9-43).