

WATER – MERIDIAN SERVICE METROPOLITAN DISTRICT POC: KEVIN FACKERELL (719)–495–6567	GAS – BLACK HILLS ENERGY (719)–393–6625
SANITARY SEWER – MERIDIAN SERVICE METROPOLITAN DISTRICT POC: BRADEN McCrORY (719)–495–6567	ELECTRIC – MOUNTAIN VIEW ELECTRIC ASSOC. (719)–495–2283
DRAINAGE – EL PASO COUNTY DSD/INSPECTIONS (719)–520–6300	GEOTECHNICAL ENGINEER – ENTECH ENGINEERING, INC. (719)–531–5599
DRAINAGE – MERIDIAN SERVICE METROPOLITAN DISTRICT POC: TOM KERBY (719)–495–7444	FALCON FIRE PROTECTION DISTRICT (719) 495–4050

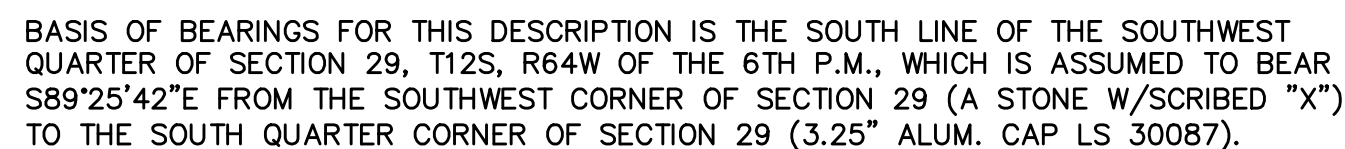
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR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

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

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;

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°28'51"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



1) MRRC1 - 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF LONDONDERRY DRIVE AND ANGELES ROAD. LOCATED AT THE SE CORNER OF THE MERIDIAN RANCH RECREATIONAL CENTER SIGN. ELEVATION - 7098.40'

2) MRMS1 - 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED ON THE WEST SIDE OF RAINBOW BRIDGE DRIVE 1,150 FEET NORTH OF 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'

Revise: I, the owner/developer have read and will comply with the requirements of the grading and erosion control plan.

OWNERS STATEMENT:

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

RAUL GUZMAN, VICE PRESIDENT  
MERIDIAN RANCH INVESTMENTS, INC.

DATE \_\_\_\_\_

RAUL GUZMAN, VICE PRESIDENT  
GTL DEVELOPMENT, INC.

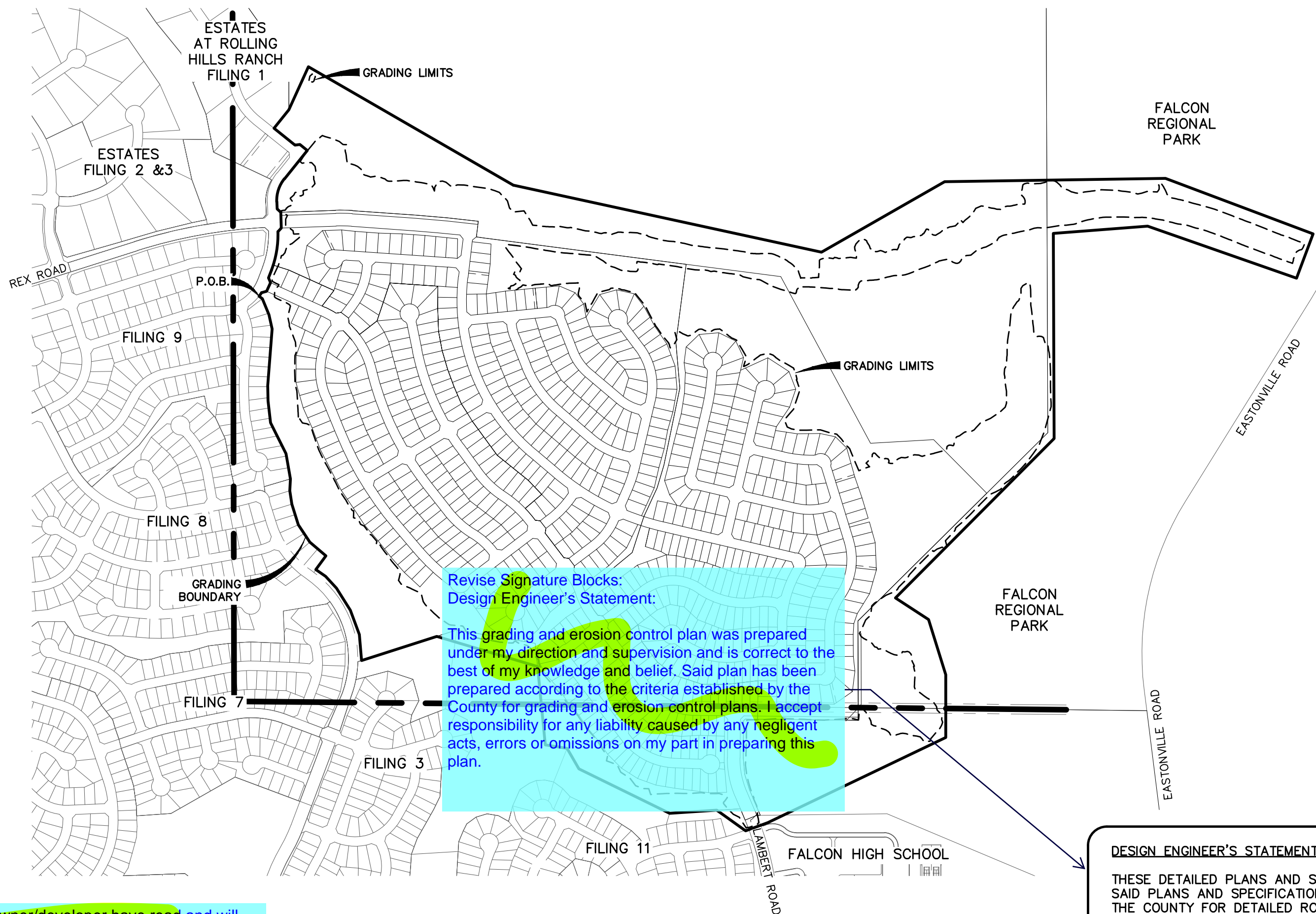
DATE \_\_\_\_\_

MILTON GABRIELSKI, PRESIDENT  
MERIDIAN SERVICE METROPOLITAN DISTRICT

DATE \_\_\_\_\_

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.



Revise Signature Blocks:  
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 preparing this plan.

DESIGN ENGINEER'S STATEMENT:

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

THOMAS A. KERBY, P.E. #31429

DATE           

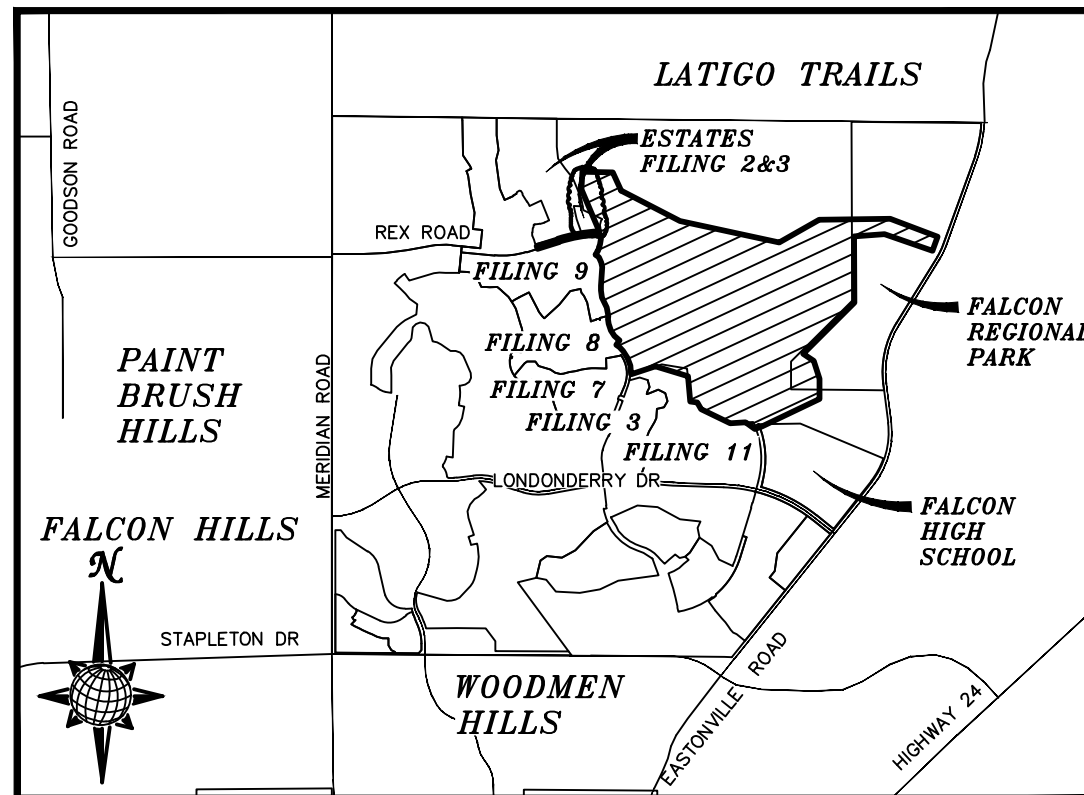
EL PASO COUNTY:

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.

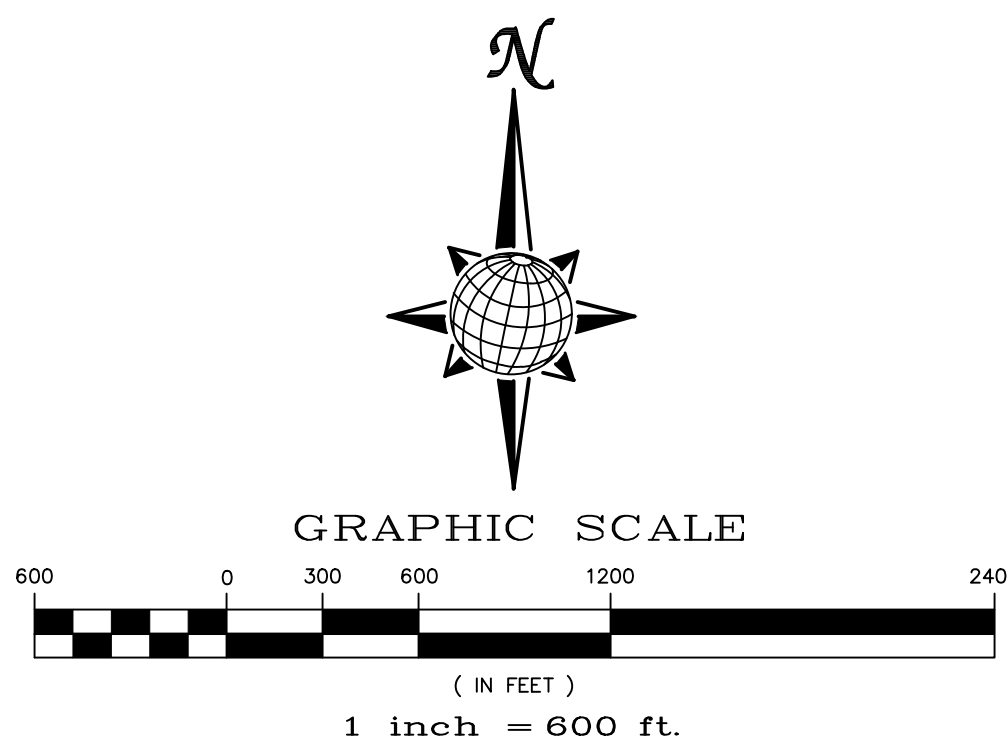
JENNIFER IRVINE, P.E.  
COUNTY ENGINEER / ECM ADMINISTRATOR

DATE \_\_\_\_\_




**VICINITY MAP**  
**N.T.S.**

SHEET	SHEET INDEX
1	COVER SHEET
2	INDEX SHEET
3–22	LAYOUT SHEETS
23–28	DETAIL SHEETS



Add the following:

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.

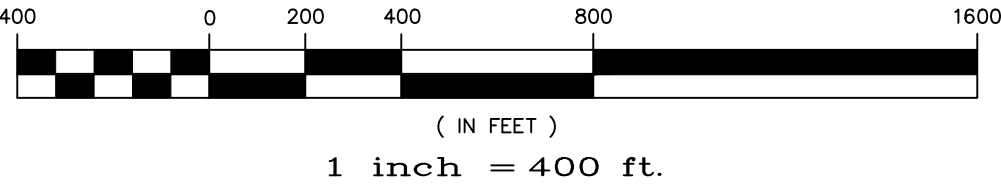
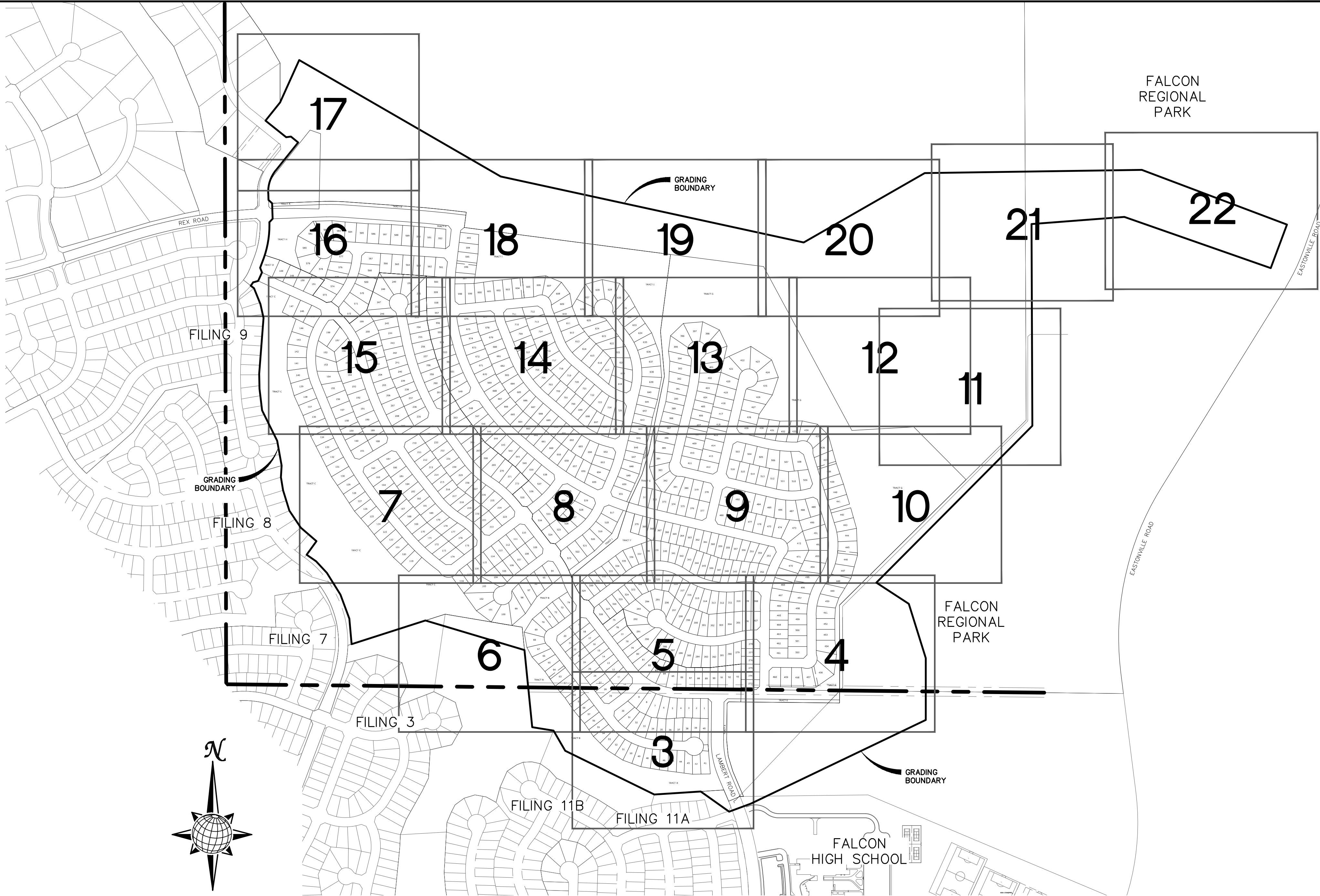
 <b>MERIDIAN RANCH</b>	<b>TECH CONTRACTORS</b> <b>11886 STAPLETON DRIVE</b> <b>FALCON, CO 80831</b>		1				
	TELEPHONE: 719.495.7444 FAX: 719.495.2457		2				
			3				
			4				
			<b>No.</b>	<b>Revisions</b>	<b>Date</b>	<b>Invt.</b>	<b>Appr.</b>

Scale AS SHOWN	Drawn by Log.	ROUGH GRADING ROLL AT MERIDIAN PLAZA ROUGH GRADING CONTROL PLAN COVER SHEET
	Checked by TAK	
1 of 30	Date SEPT 2019	



EL PASO COUNTY STANDARD NOTES:

1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
5. CONTROL MEASURES MUST BE INSTALLED PRIOR COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY 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.
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS, ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION 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




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. SOME AREAS HAVE NEGLIGIBLE VEGETATIVE GROWTH AT THIS TIME AS THE SITE WAS PREVIOUSLY GRADED AND RE-SEEDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDED WITH THE APPROVED COUNTY SEED MIX.

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		



TWO WORKING DAYS  
**BEFORE YOU DIG  
CALL 811**  
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1967  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

<div>Scale AS SHOWN</div> <div>2 of 30</div>	<div>Drawn by LOC</div>	ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN GRADING INDEX SHEET			<div> <b>MERIDIAN RANCH</b></div> <div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>	<div>1</div> <div>2</div> <div>3</div> <div>4</div>													
	<div>Checked by TAK</div>																		
	<div>Date SEPT 2019</div>																		
										Revisions		Date		Invt.		Appr.		Date	





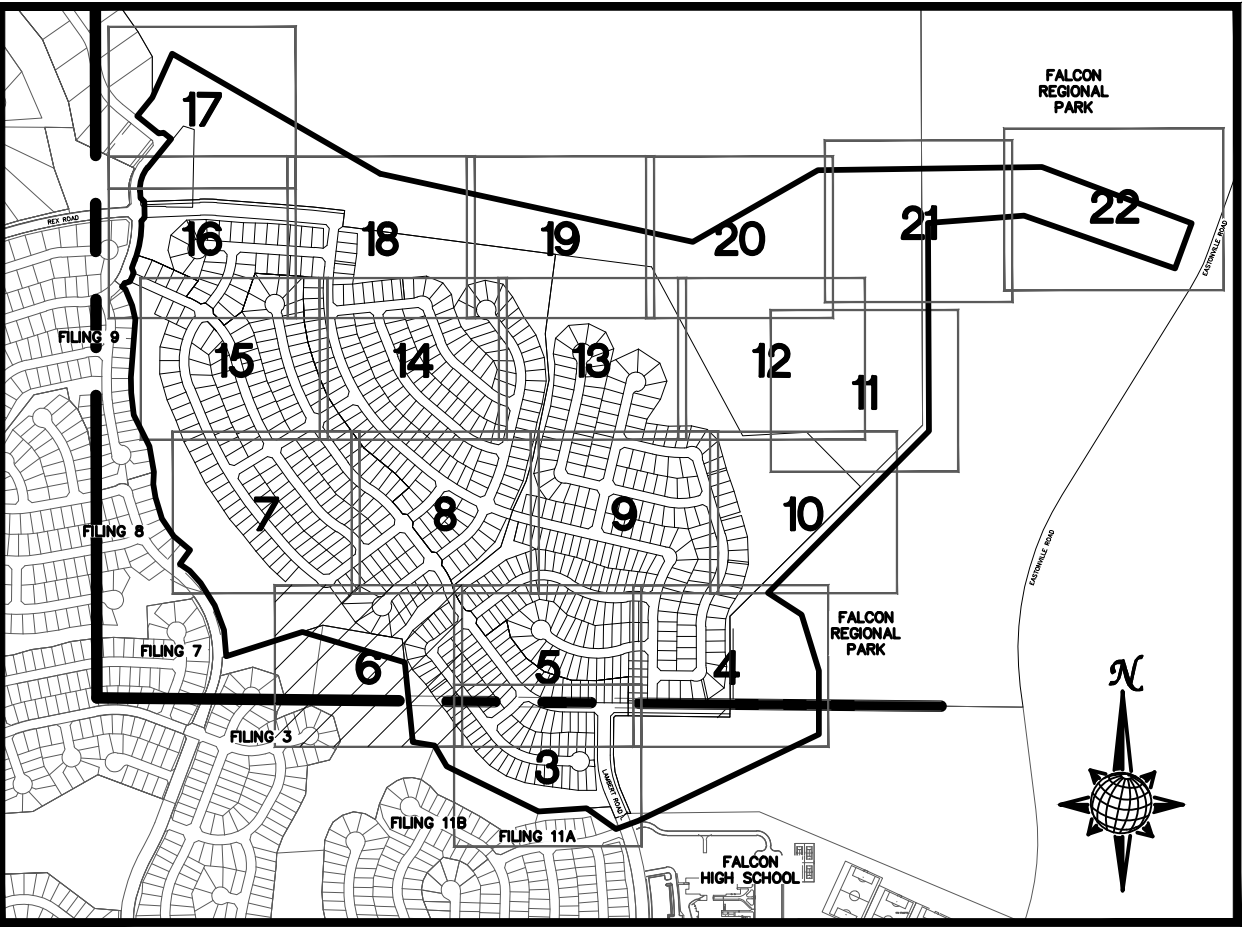
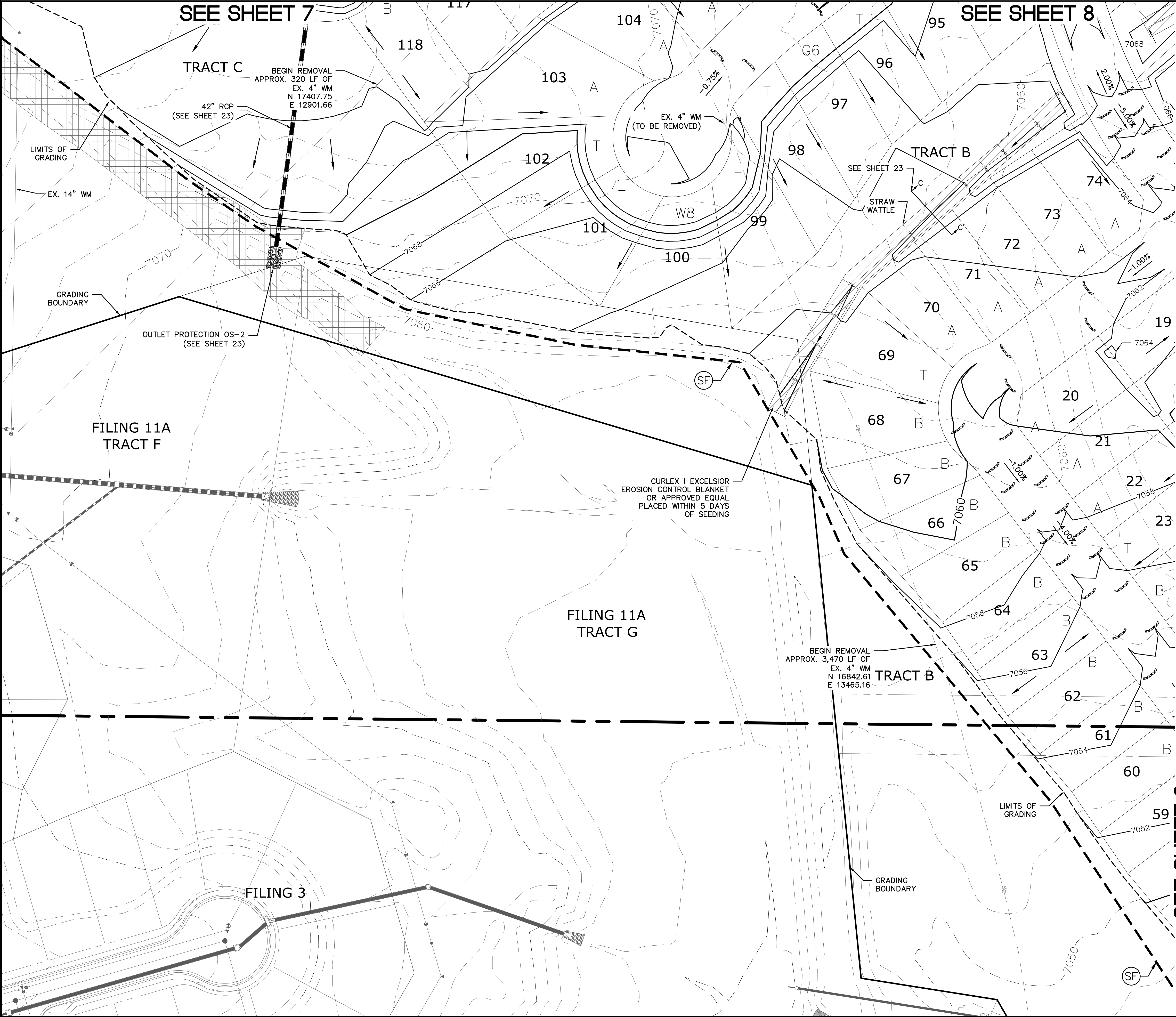












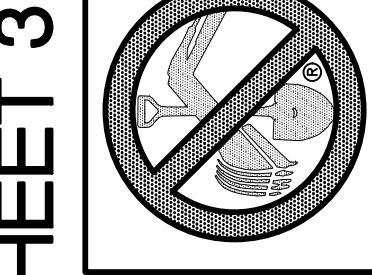
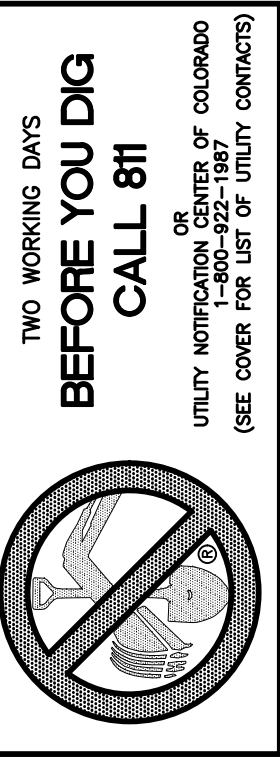
INDEX MAP  
N.T.S.

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 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:  
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)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

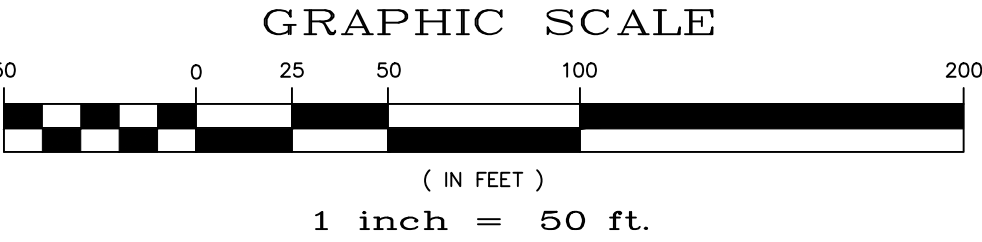


SEE SHEET 3

SEE SHEET 5

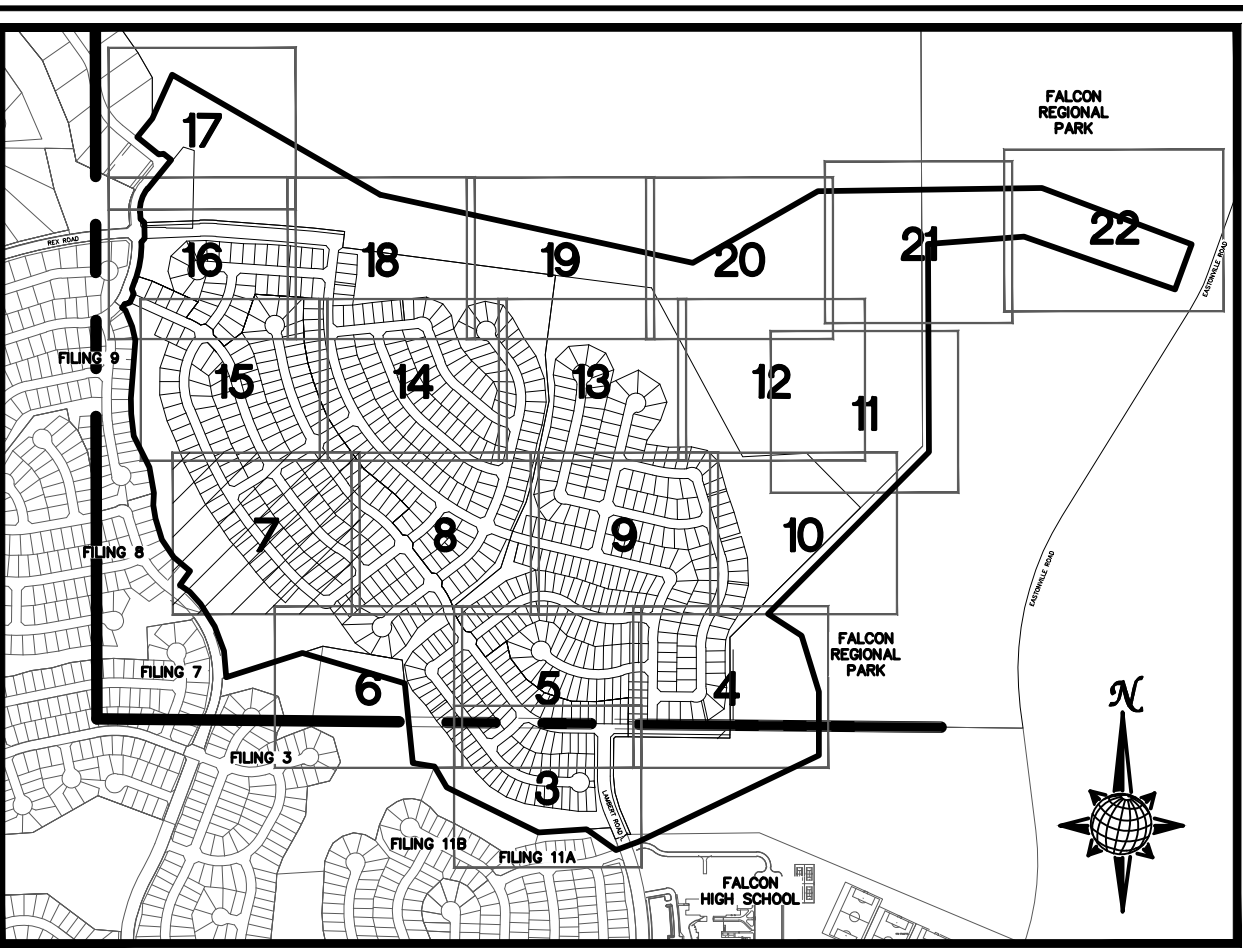
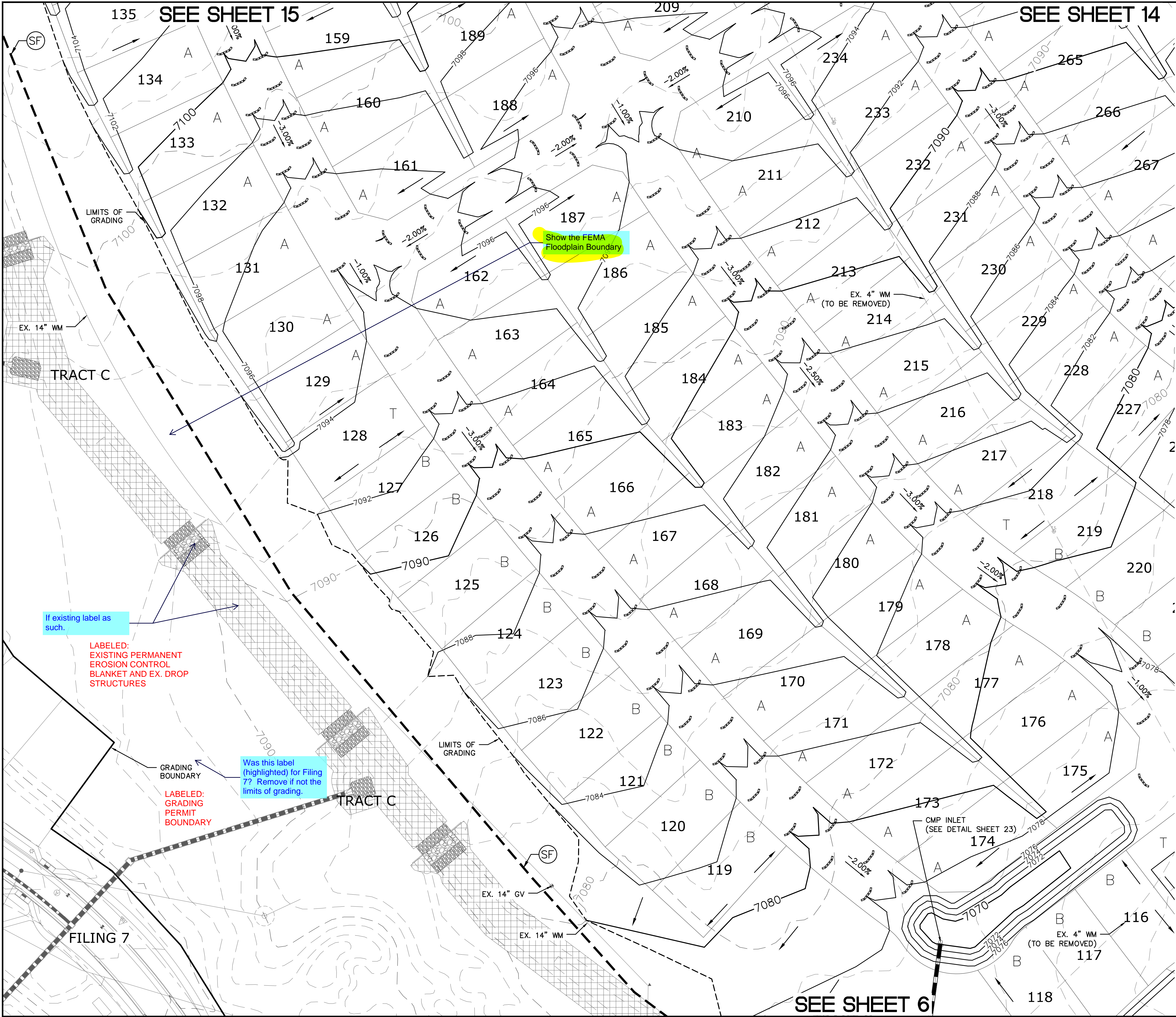
SEE SHEET 8

SEE SHEET 7



<div>Scale</div> <div>AS SHOWN</div>	<div>Drawn by</div> <div>LOC</div>	<div>ROUGH GRADING ROLLING HILLS RANCH</div> <div>AT MERIDIAN RANCH</div> <div>ROUGH GRADING-EROSION</div> <div>CONTROL PLAN</div> <div>PLAN SHEET</div>	<div></div> <div>MERIDIAN RANCH</div>	<div>TECH CONTRACTORS</div> <div>11886 STAPLETON DRIVE</div> <div>FALCON, CO 80831</div> <div>TELEPHONE: 719.495.7444</div> <div>FAX: 719.495.2457</div>	1					
	<div>Checked by</div> <div>TAK</div>				2					
	<div>Date</div> <div>SEPT 2019</div>				3					
	<div>6 of 30</div>				4					
					No.	Revisions	Date	Init.	Appr.	Date





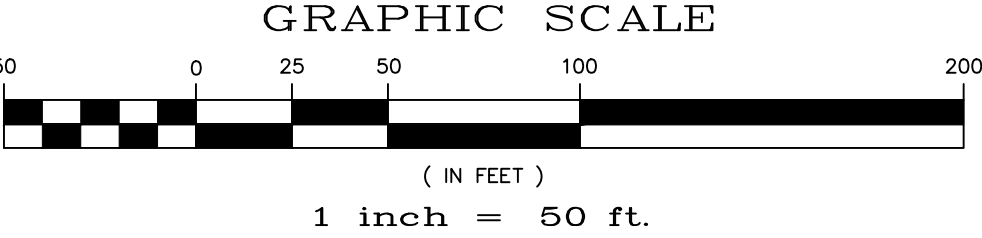
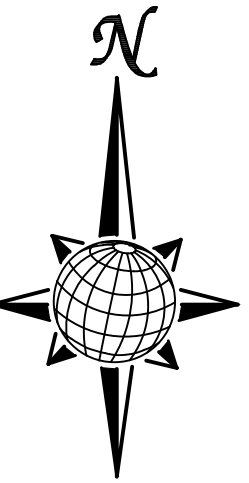
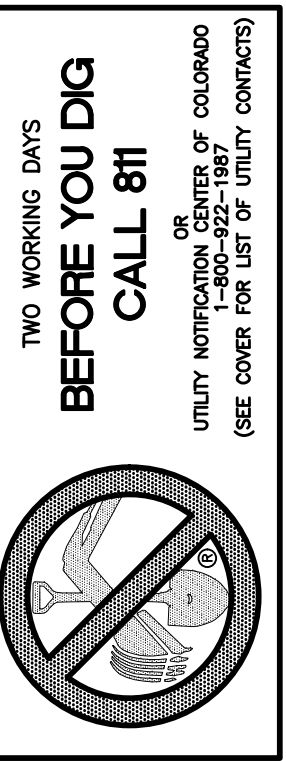
INDEX MAP  
N.T.S.

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
	VTG	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.

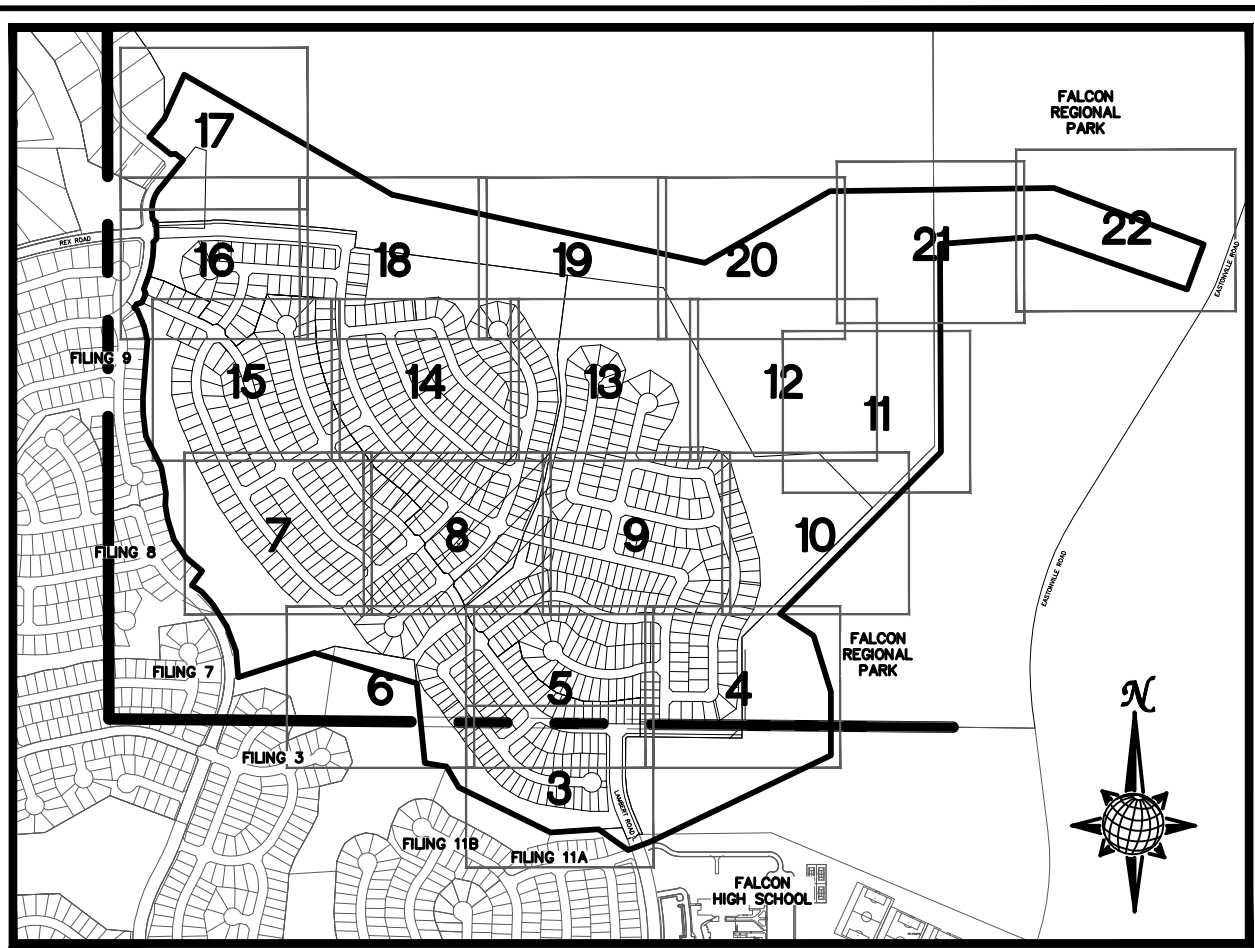
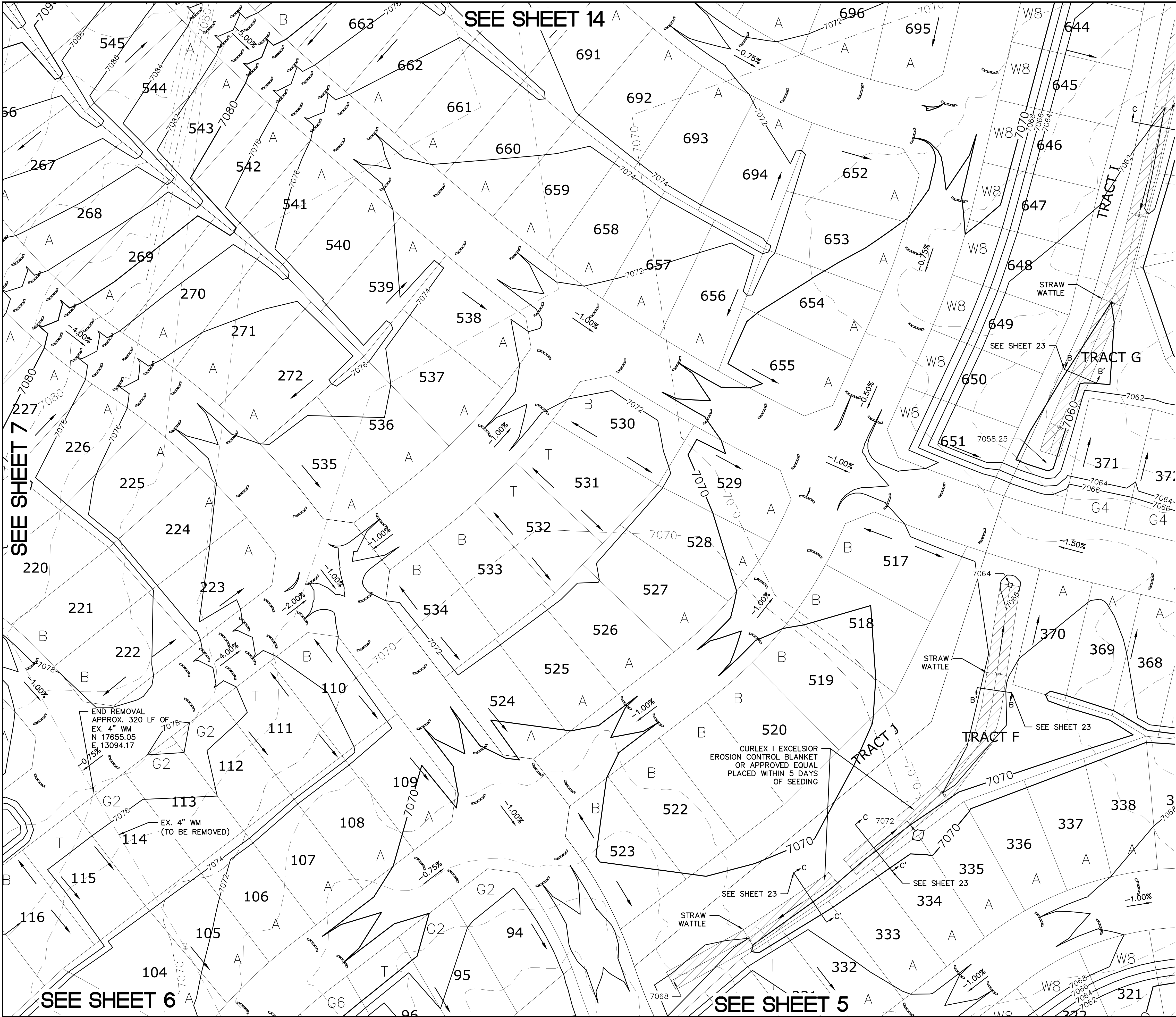
NOTE:  
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ARE TO FINISHED SURFACE. ALL STREET  
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CONTRACTOR SHALL PROTECT ALL EXISTING  
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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS  
FILING 1 OFFSITE  
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)MSWD 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					
 MERIDIAN RANCH					
ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN PLAN SHEET					
Drawn by	Log	Checked by	TAK	Date	SEPT 2019
Scale	AS SHOWN	7	of	30	





## INDEX MAP

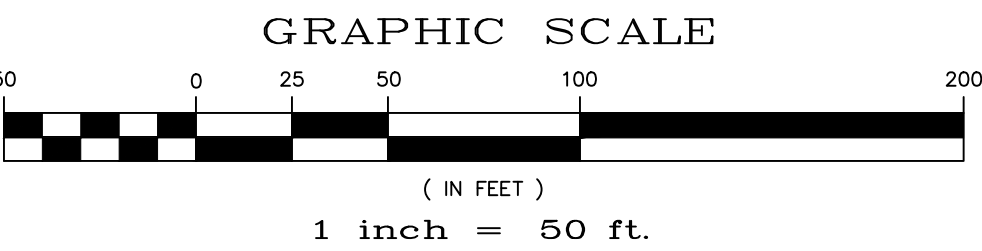
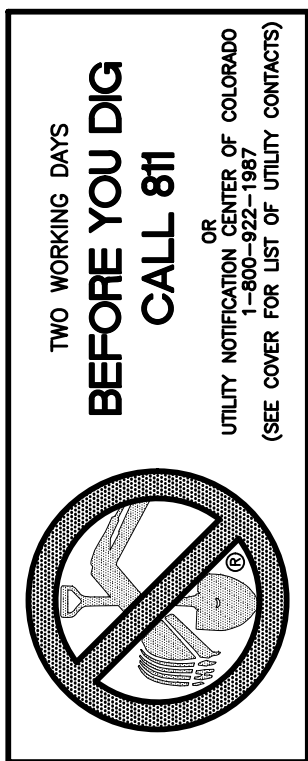
### N.T.S.

#### 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')
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		PROPOSED CONTOUR (2')
		GRADE
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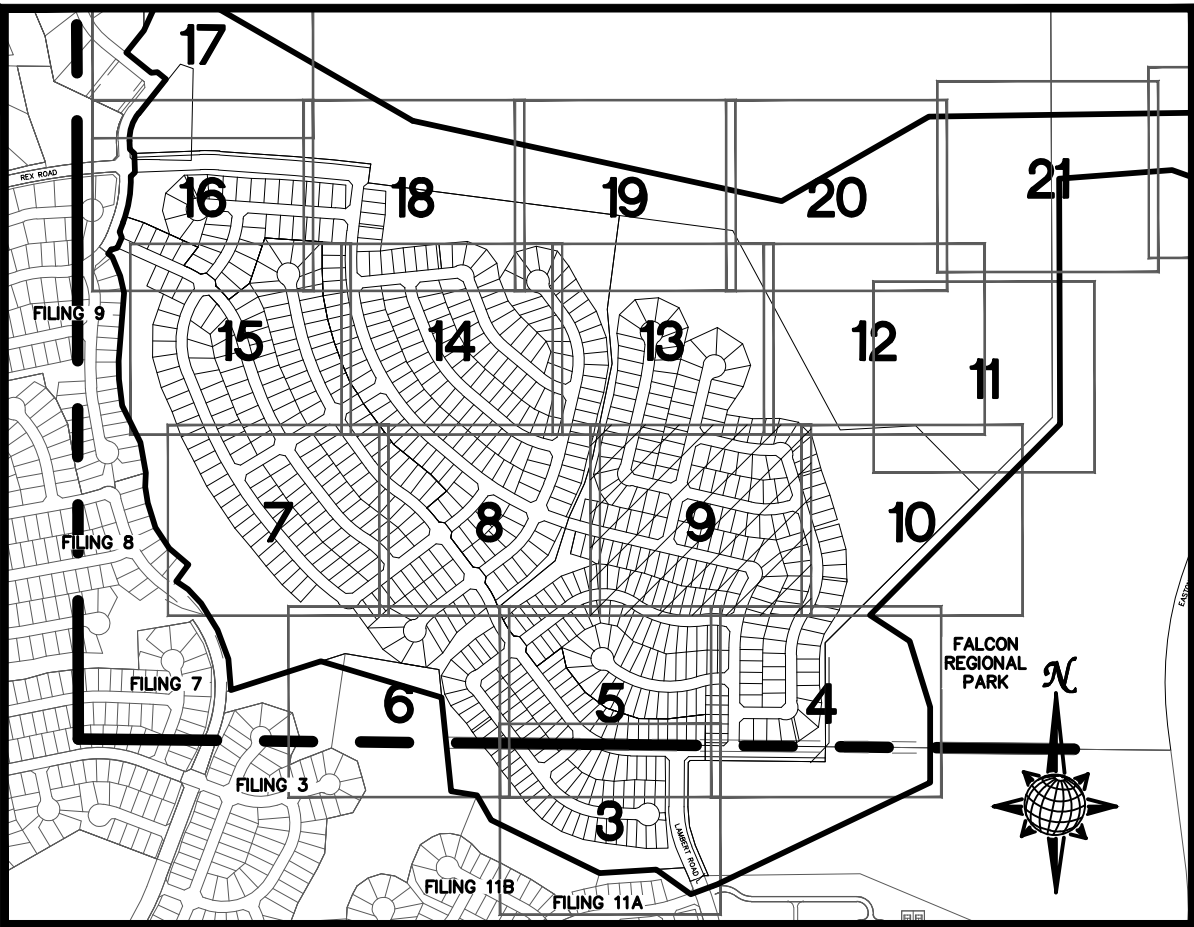
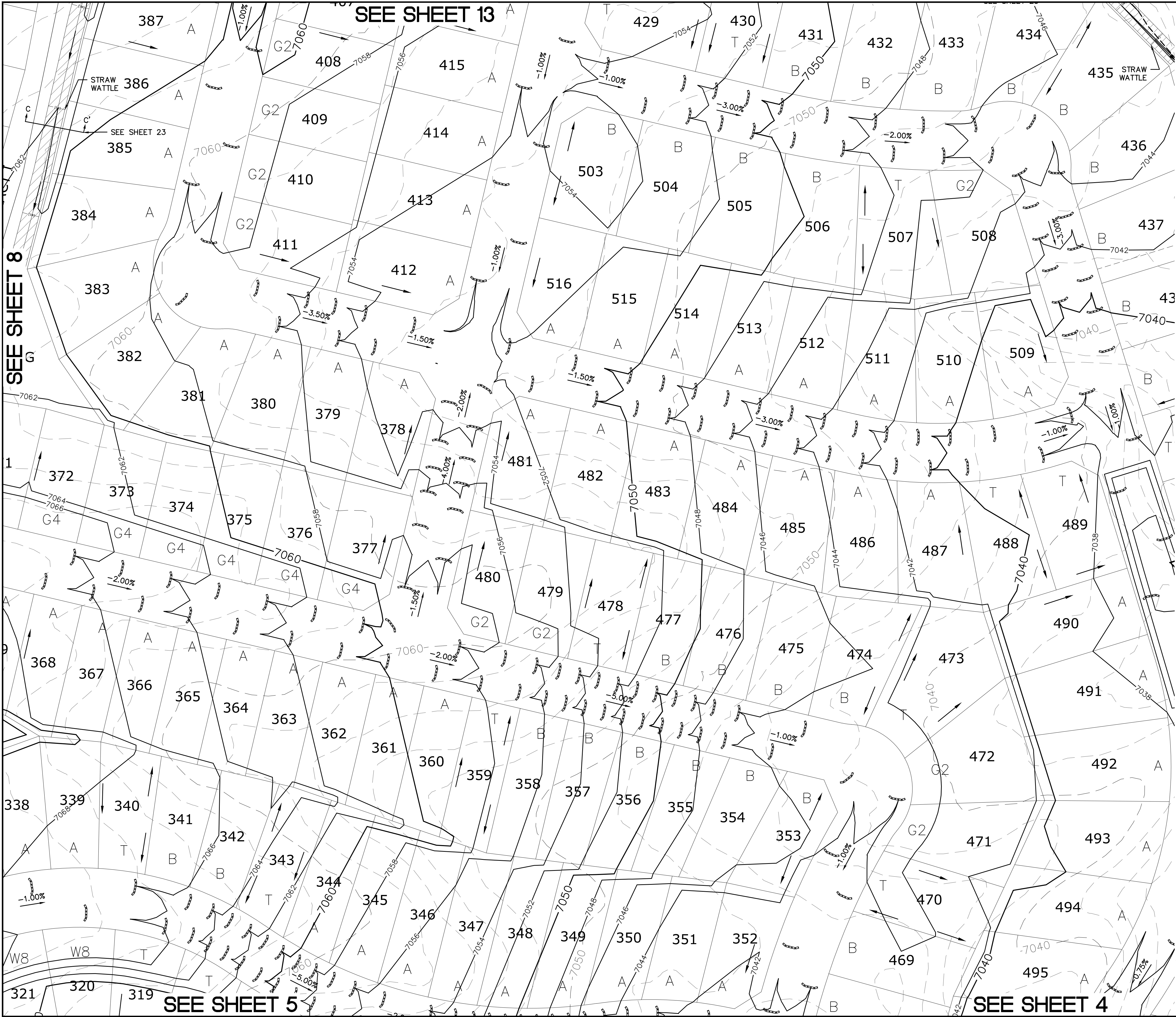
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CONSTRUCTION DRAWINGS  
11)MSMD PUMP STATION AND WATER TANK  
WATER TRANSMISSION LINES AND ROAD



Revisions		Date		Init.		Appr.		Date	
1	No.	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	SEPT 2019				
Scale	AS SHOWN		8	of	30				

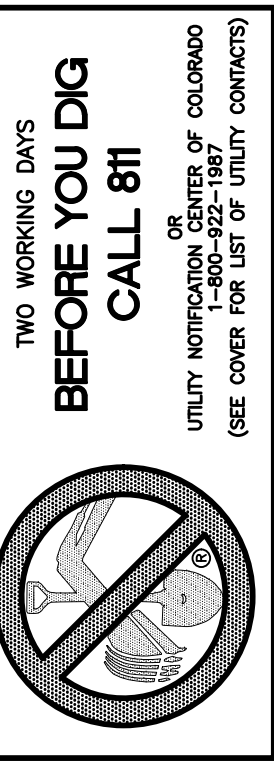




## INDEX MAP N.T.S.

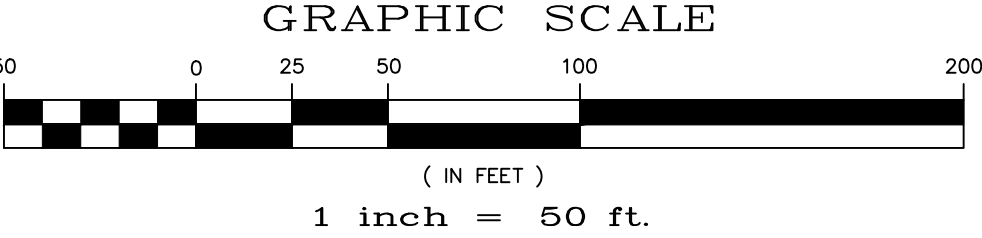
### LEGEND

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
	VT-C	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')
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		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
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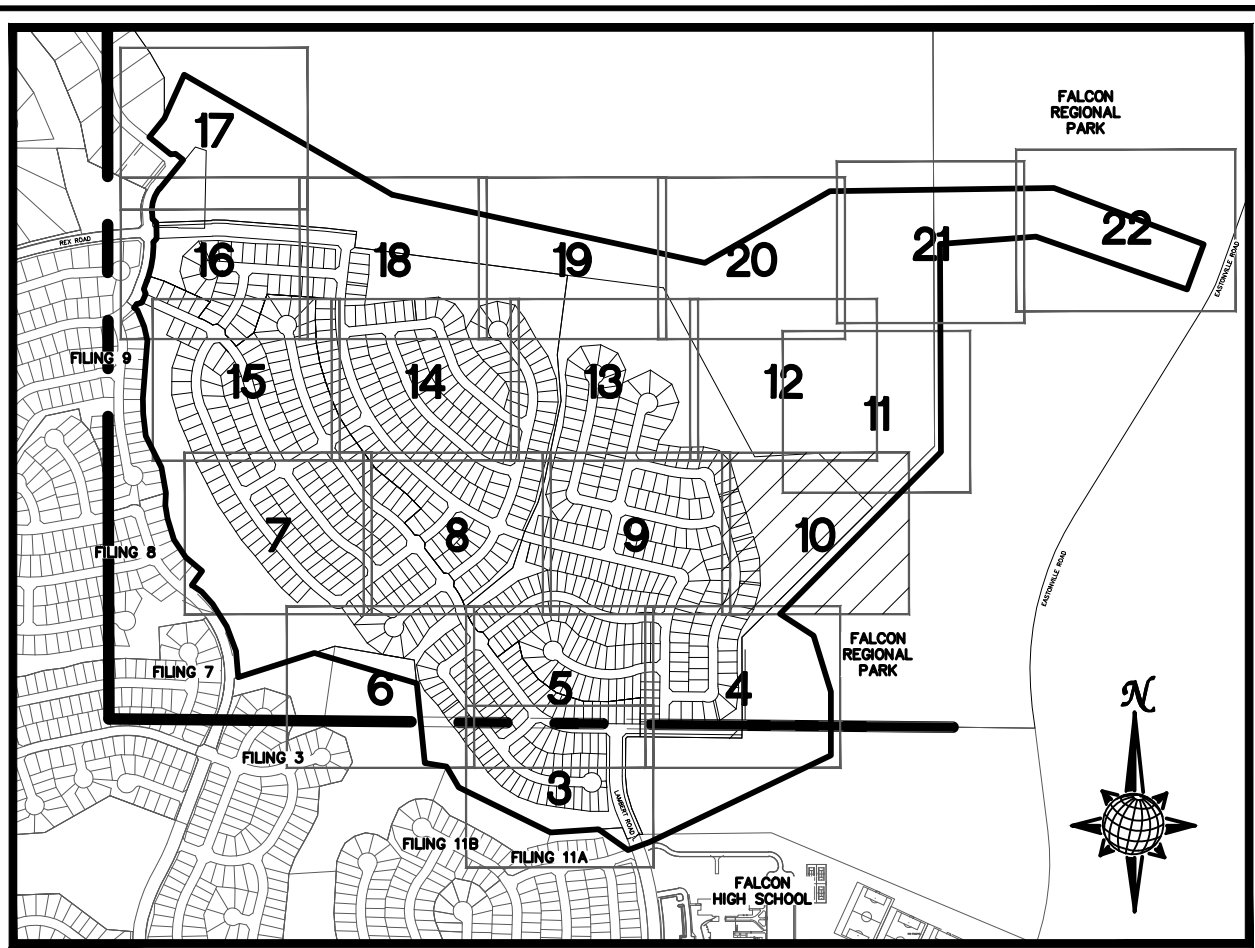
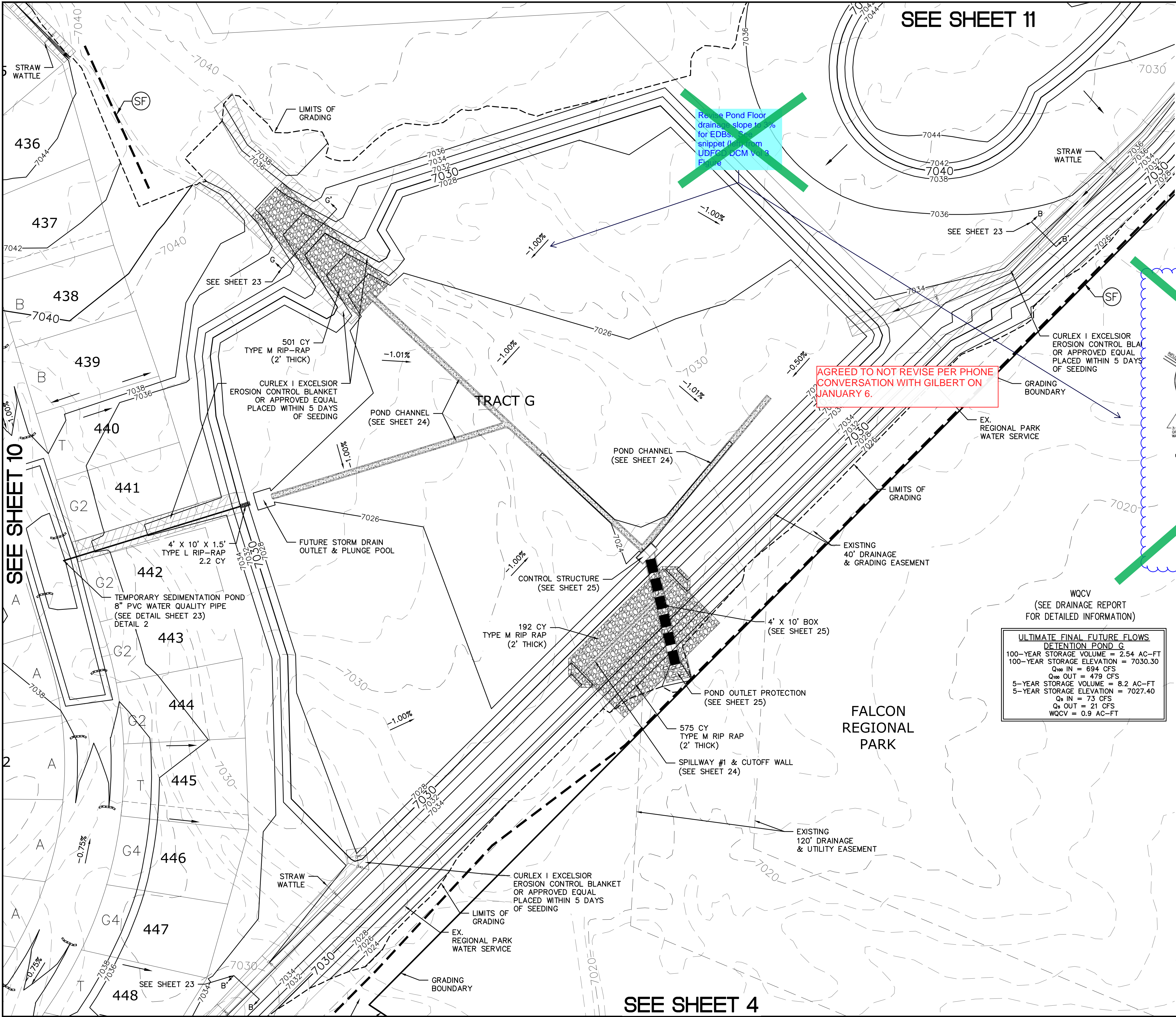
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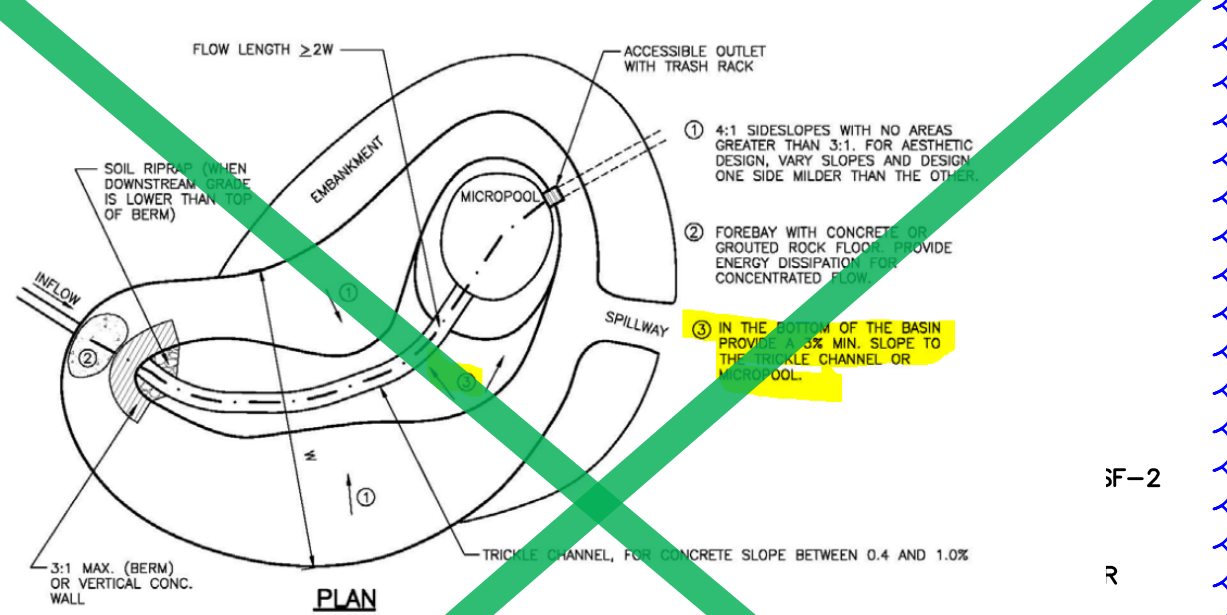


No.	Revisions	Date	Init.	Appr.	Date
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4					
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
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Drawn by	Log	Checked by	TAK	Date	SEPT 2019
Scale	AS SHOWN	9	of	30	



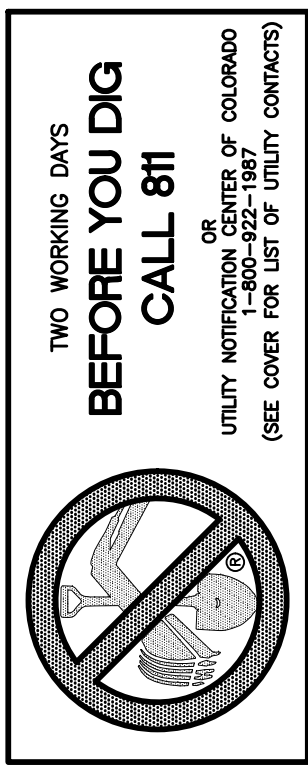


### INDEX MAP



- Provide a design slope of at least 3% in the vegetated bottom of the basin (either toward the trickle channel or toward the micropool). This will help maintain the appearance of the turf grass in the bottom of the basin and reduce the possibility of saturated areas that may produce unwanted species of vegetation and mosquito breeding conditions. Verify slopes during construction, prior to vegetation.

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

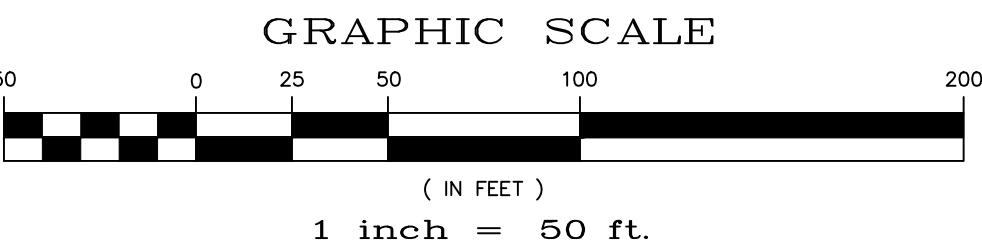


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- ESTATES FILING 2 AT MERIDIAN RANCH
- ESTATES FILING 3 AT MERIDIAN RANCH
- GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
- MERIDIAN RANCH FILING 9
- MERIDIAN RANCH FILING 8
- MERIDIAN RANCH FILING 7
- MERIDIAN RANCH FILING 3
- MERIDIAN RANCH FILING 11A
- MERIDIAN RANCH FILING 11B
- LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
- MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



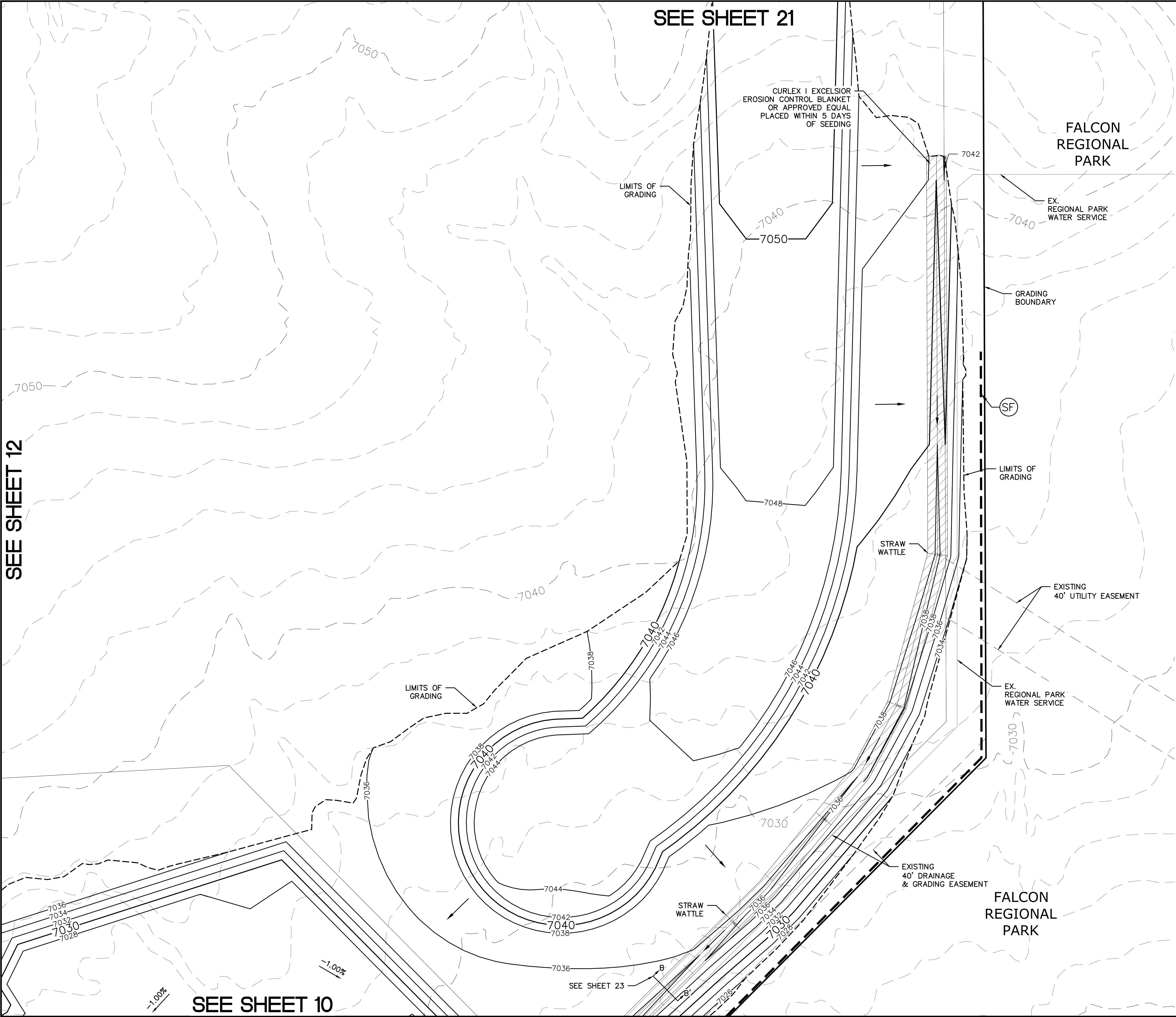
Revisions		Date	Init.	Appr.	Date
1	No.				
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3					
4					

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	
PLAN SHEET	

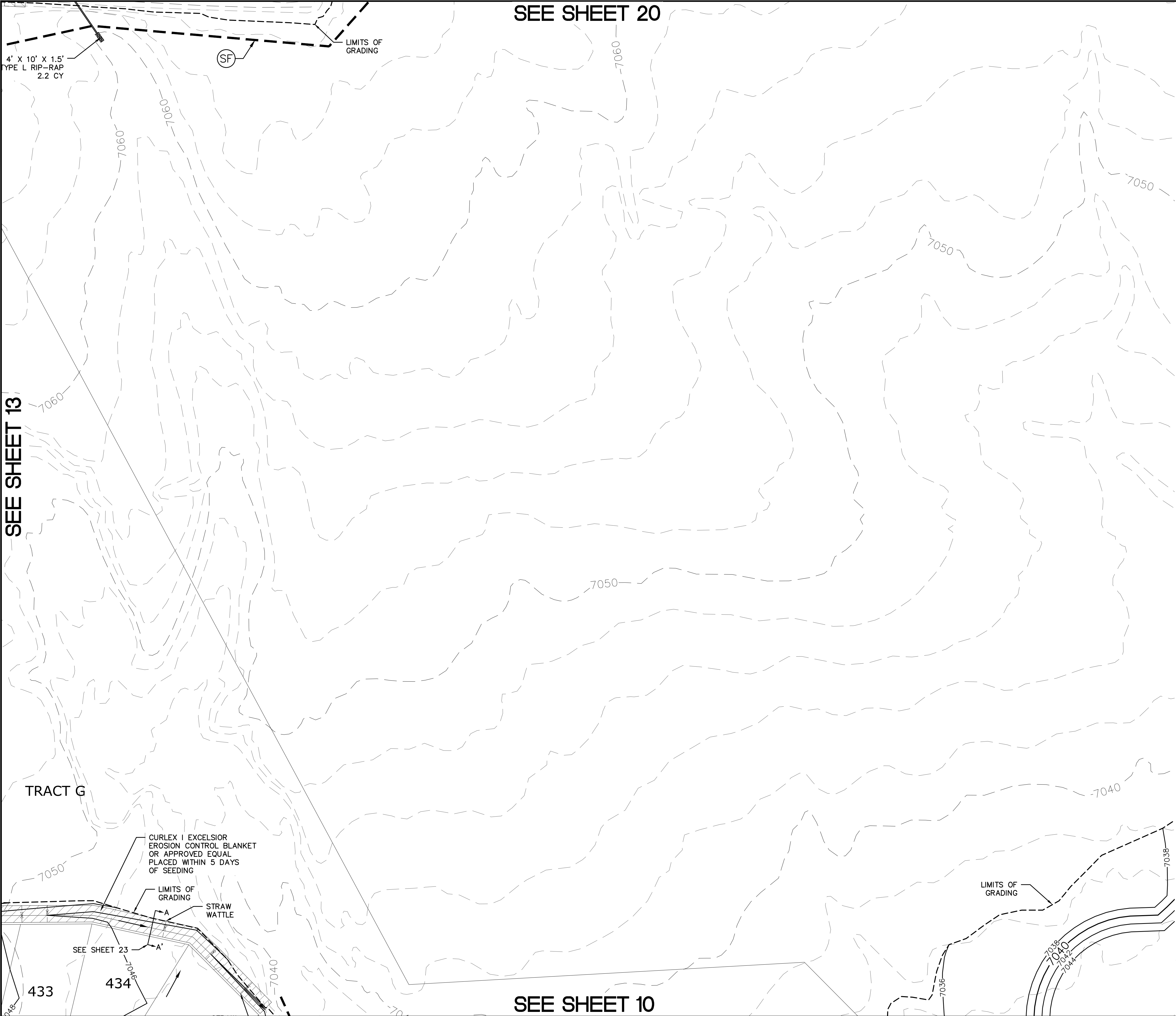
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AS SHOWN				SEPT 2019
Scale	10	of	30	



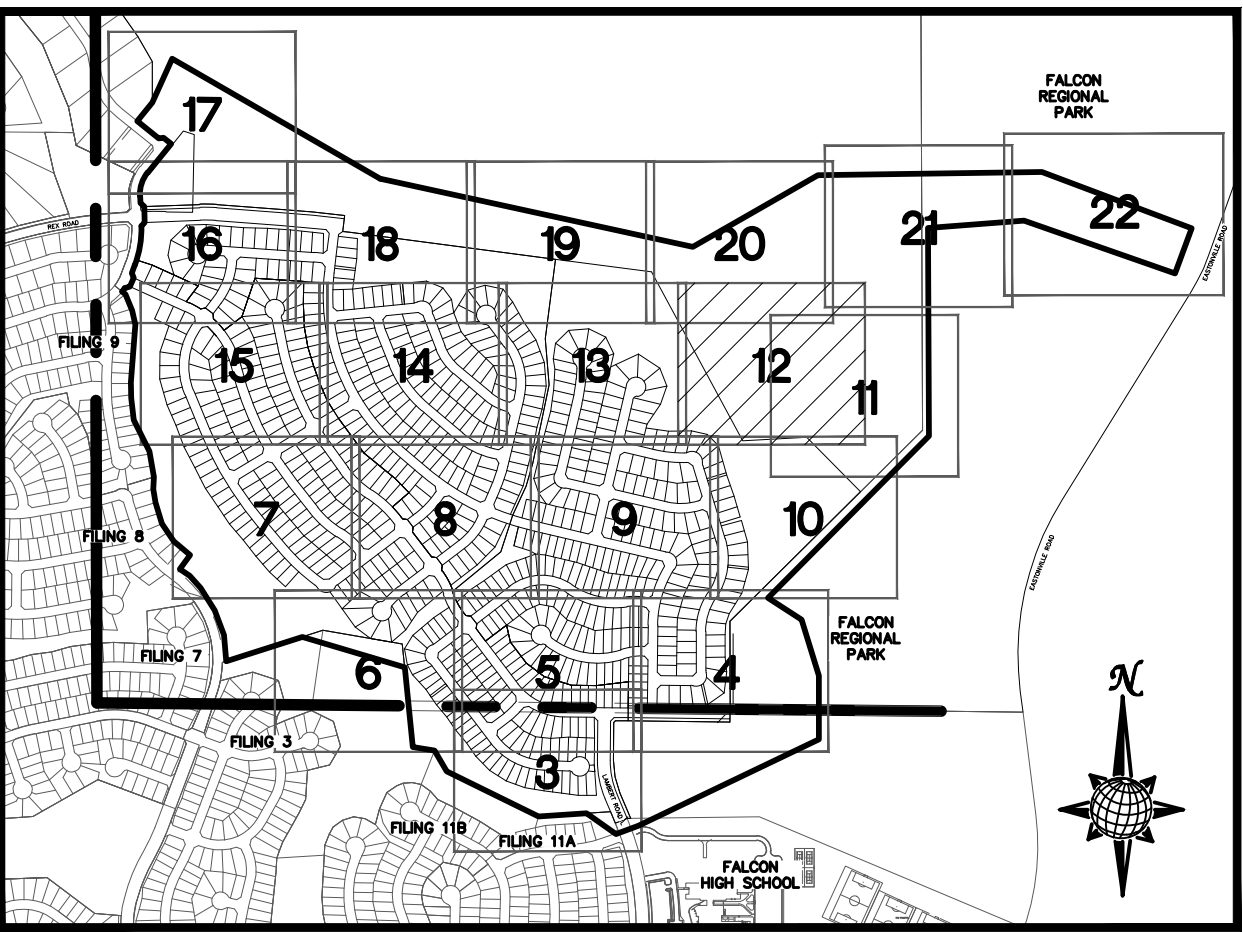




SEE SHEET 13



SEE SHEET 20

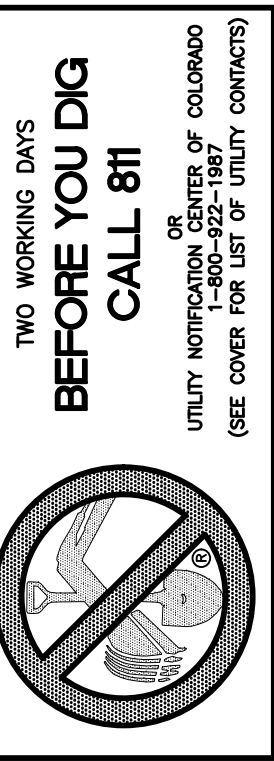


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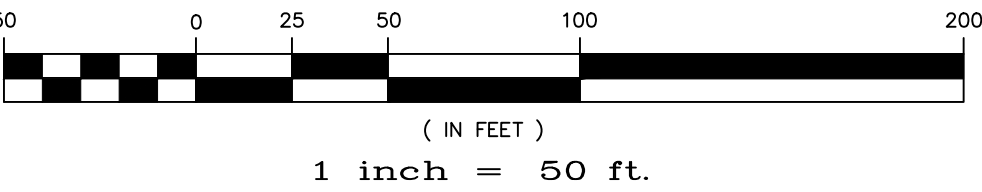
### LEGEND


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
	VT	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 28
		LIMITS OF GRADING
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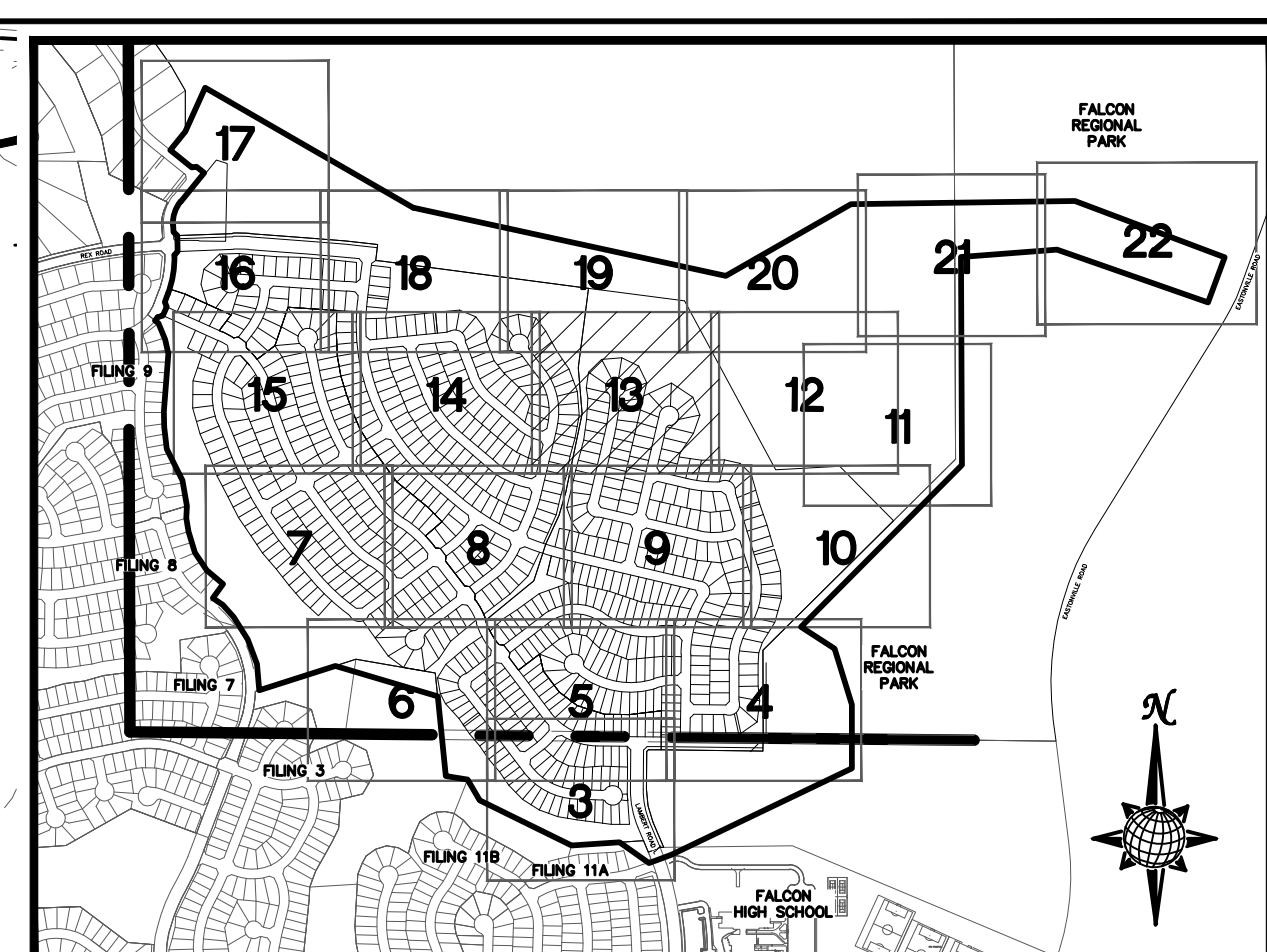
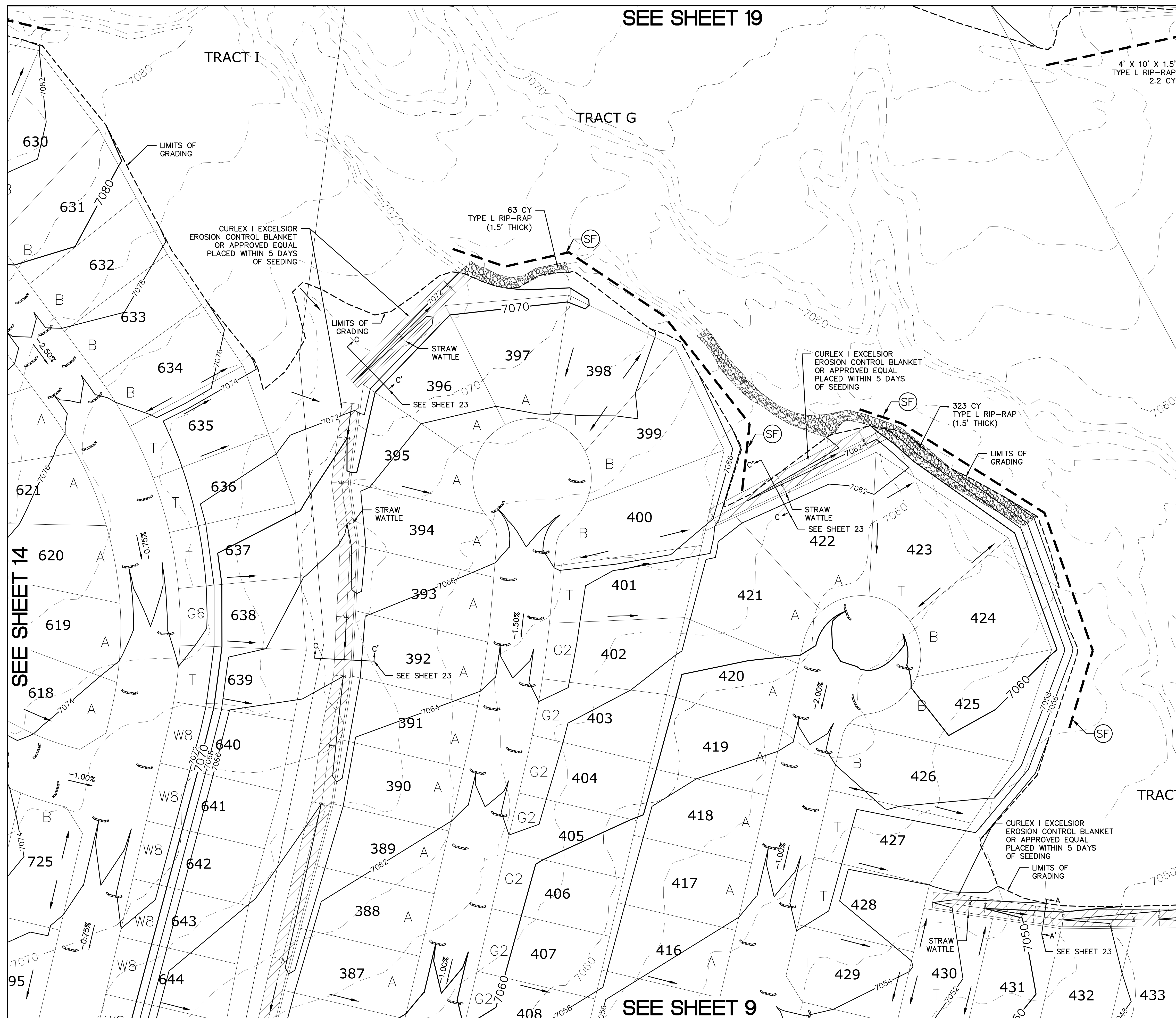
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

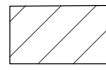
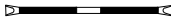

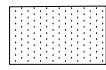


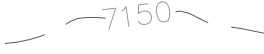



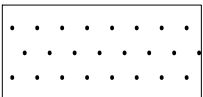
<div>Scale</div> <div>AS SHOWN</div> <div>12 of 30</div>	<div>Drawn by</div> <div>LOG</div>	<div>ROUGH GRADING ROLLING HILLS RANCH</div> <div>AT MERIDIAN RANCH</div> <div>ROUGH GRADING-EROSION</div> <div>CONTROL PLAN</div> <div>PLAN SHEET</div>	<div></div> <div>MERIDIAN RANCH</div>	<div>TECH CONTRACTORS</div> <div>11886 STAPLETON DRIVE</div> <div>FALCON, CO 80831</div> <div>TELEPHONE: 719.495.7444</div> <div>FAX: 719.495.2457</div>	<div>1</div>	<div>-</div>				
	<div>Checked by</div> <div>TAK</div>				<div>2</div>	<div>-</div>				
	<div>Date</div> <div>SEPT 2019</div>				<div>3</div>	<div>-</div>				
					<div>4</div>	<div>-</div>				
							<div>No.</div>	<div>Revisions</div>	<div>Date</div>	<div>Init.</div>





*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
		INLET PROTECTION PER DETAIL SHEET 28
		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

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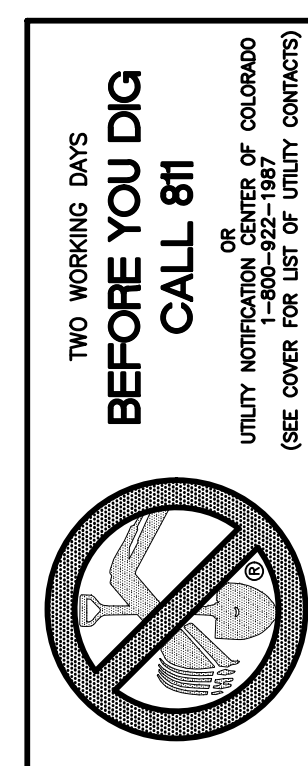
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2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
4)MERIDIAN RANCH FILING 9  
5)MERIDIAN RANCH FILING 8  
6)MERIDIAN RANCH FILING 7  
7)MERIDIAN RANCH FILING 3  
8)MERIDIAN RANCH FILING 11A  
9)MERIDIAN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

GRAPHIC SCALE

50 0 25 50 100 200

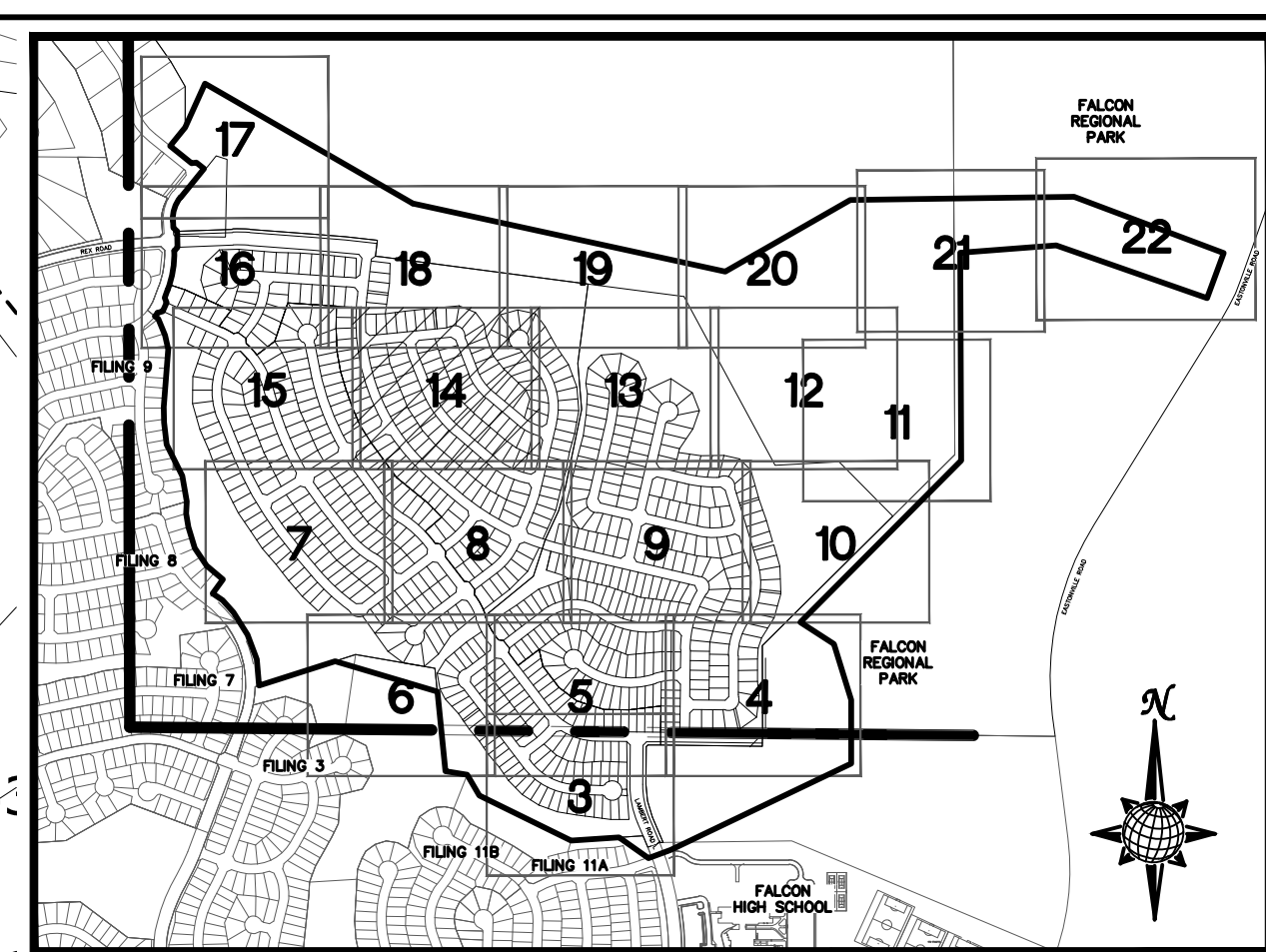
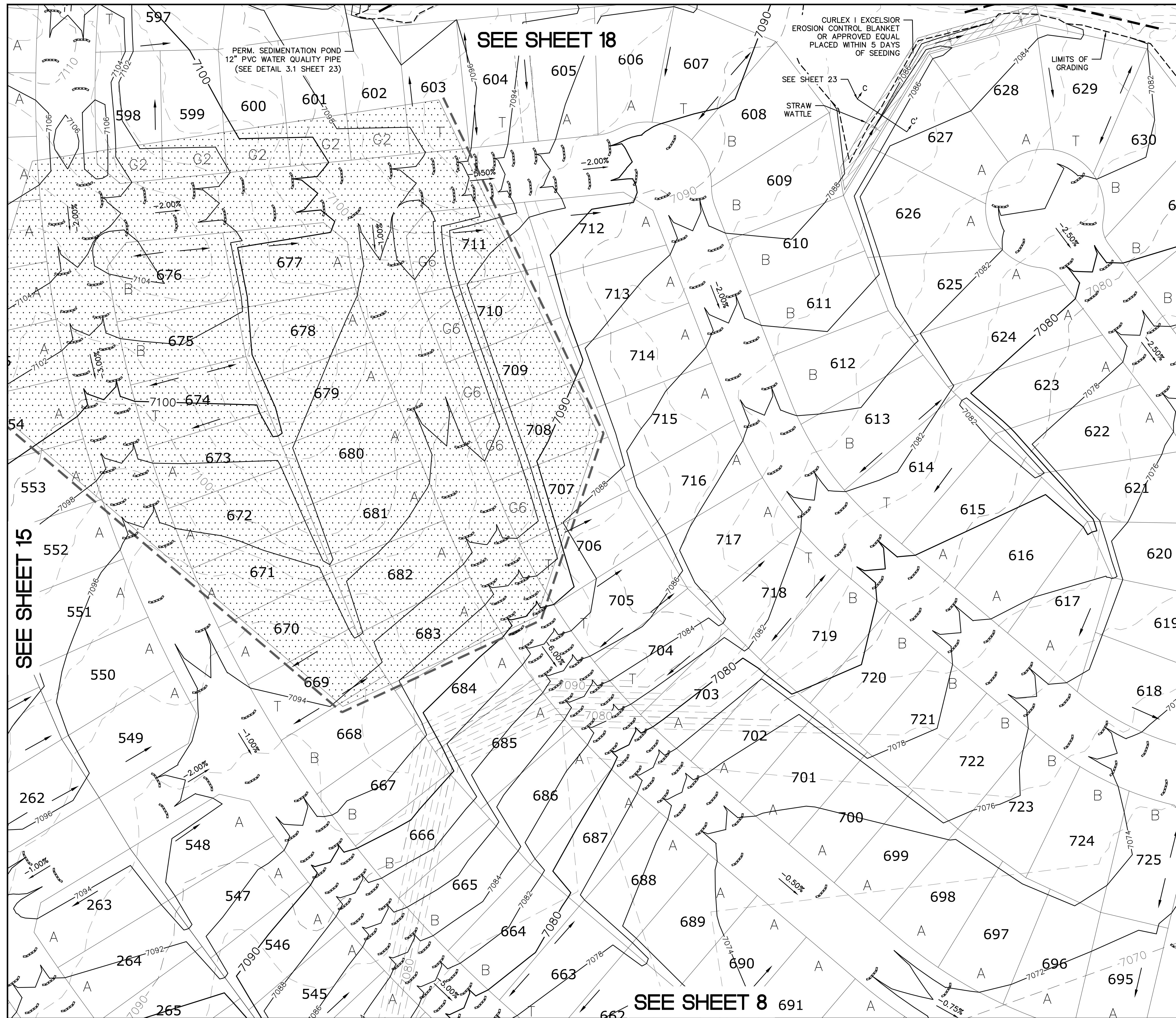
( IN FEET )

1 inch = 50 ft.











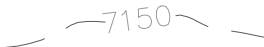


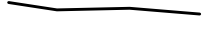
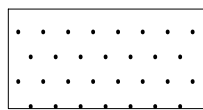
Scale AS SHOWN	Drawn by LGA	ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET	 <b>MERIDIAN RANCH</b>	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	-		
	Checked by TAK				2	-		
13 of 30	Date SEPT 2009				3	-		
					4	-		
					No.	Revisions	Date	Initt. 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 GROUND (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.

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

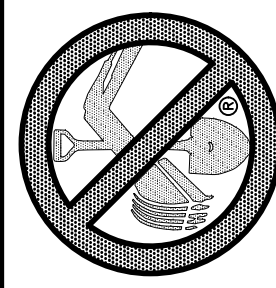
GRAPHIC SCALE

( IN FEET )

1 inch = 50 ft.



10 WORKING DAYS  
MORE YOU DIG  
CALL 811

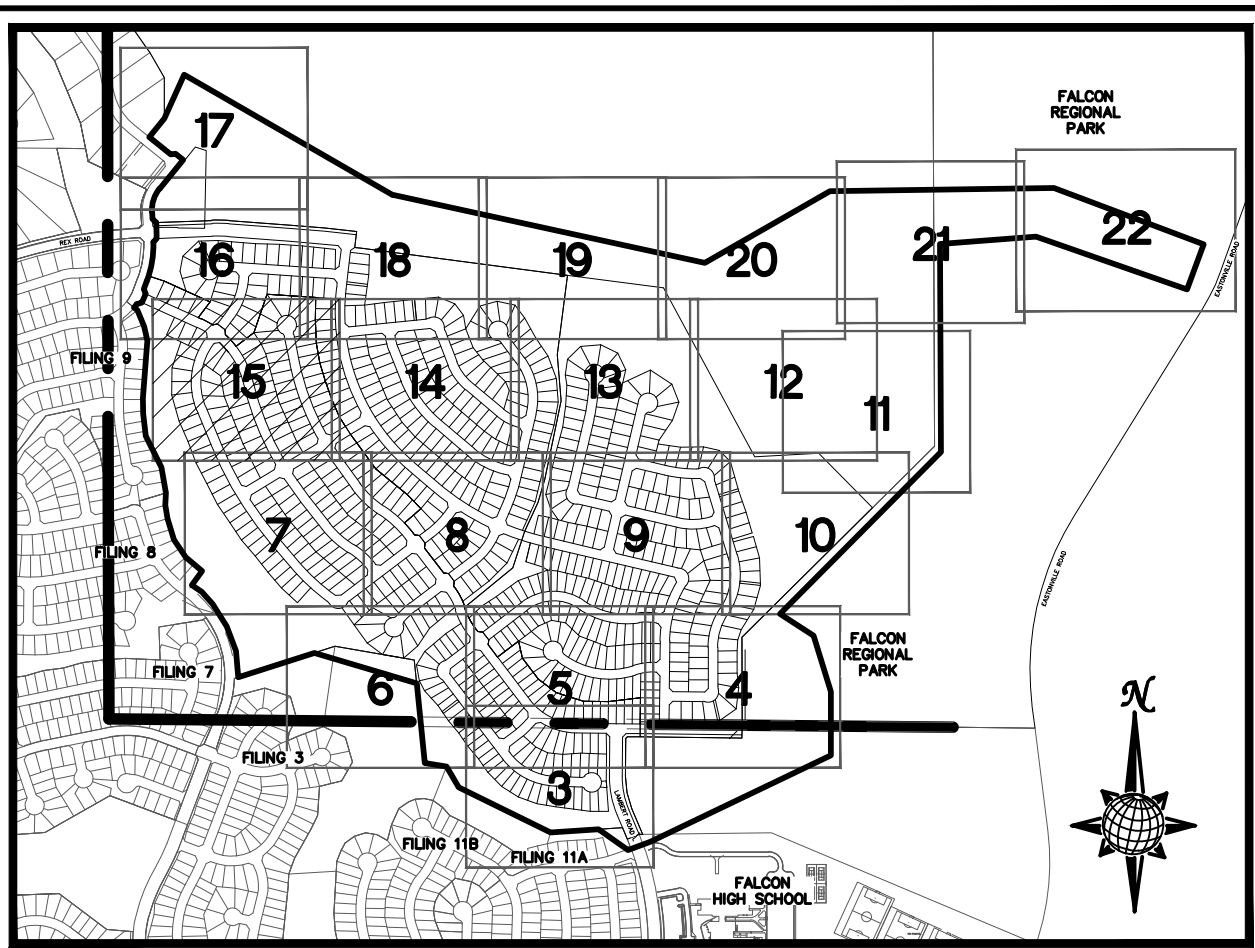
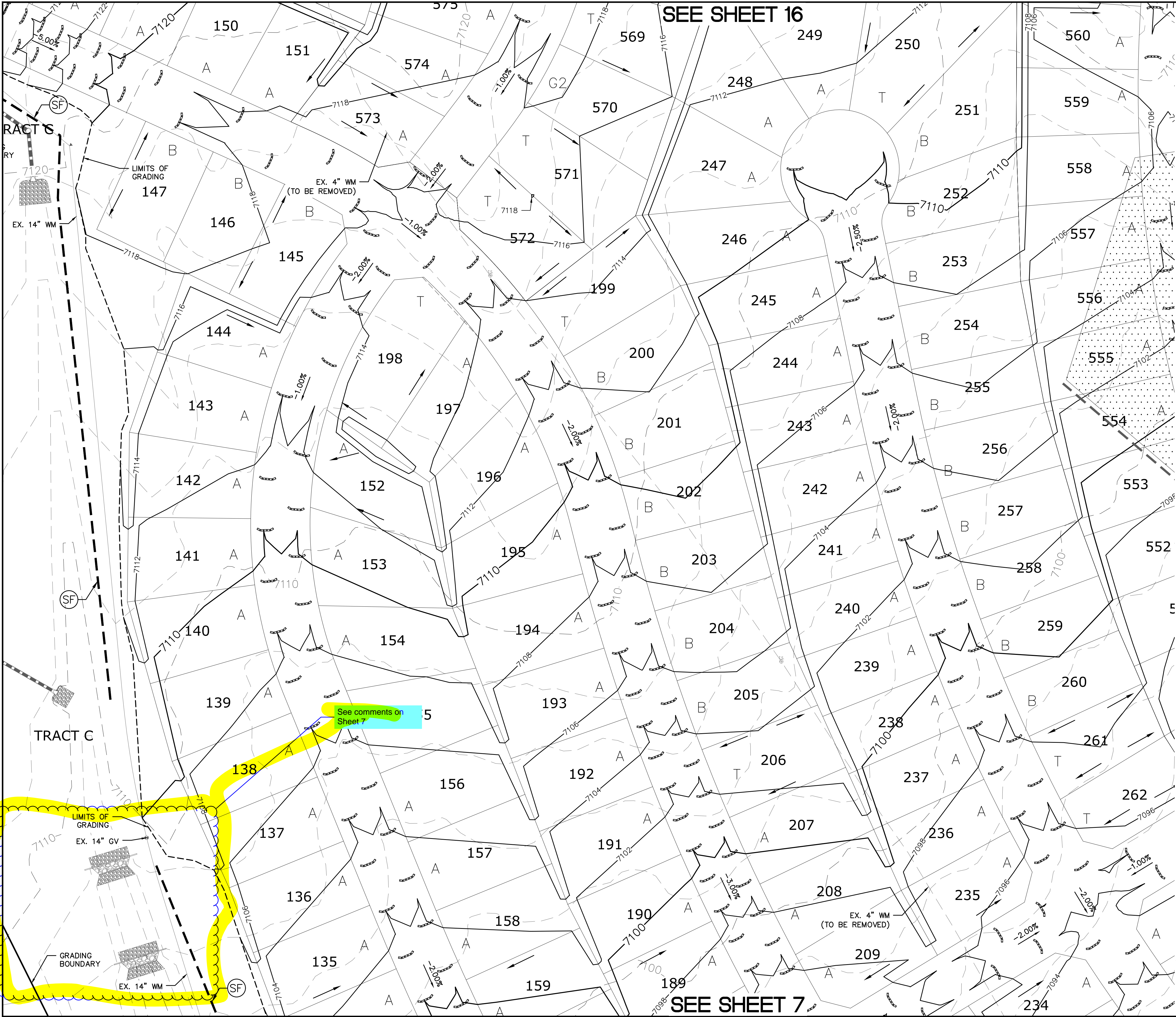


( IN FEET )

1 inch = 50 ft.

0	Scale AS SHOWN	Drawn by	ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING+EROSION CONTROL PLAN PLAN SHEET	 <b>MERIDIAN RANCH</b>	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	-	
		Log				2	-	
	Checked by TAK	3				-		
	Date	14 of 30				4	-	
	SEPT 2019					No.	Revisions	Date





## INDEX MAP

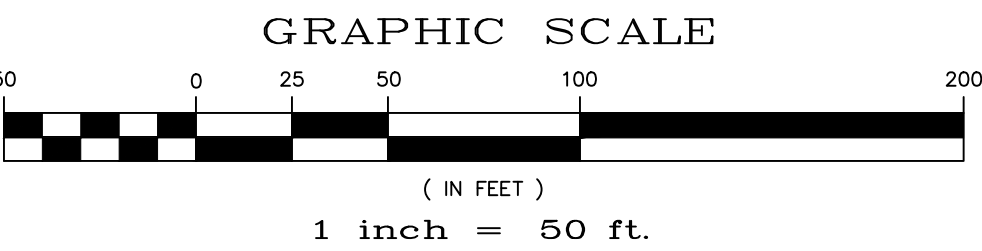
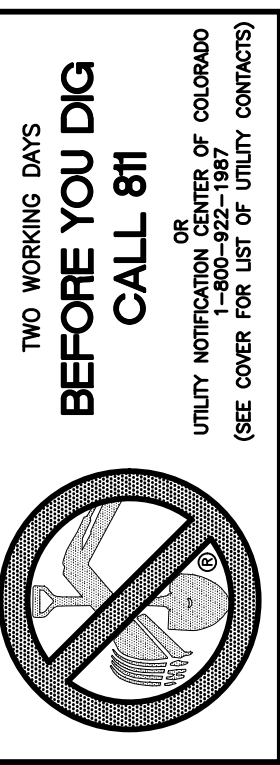
N.T.S.

### 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
	VT	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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CONSTRUCTION DRAWINGS  
11)MSWD 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
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Drawn by	Log	Checked by	TAK	Date
AS SHOWN				SEPT 2019
Scale	15	of	30	

















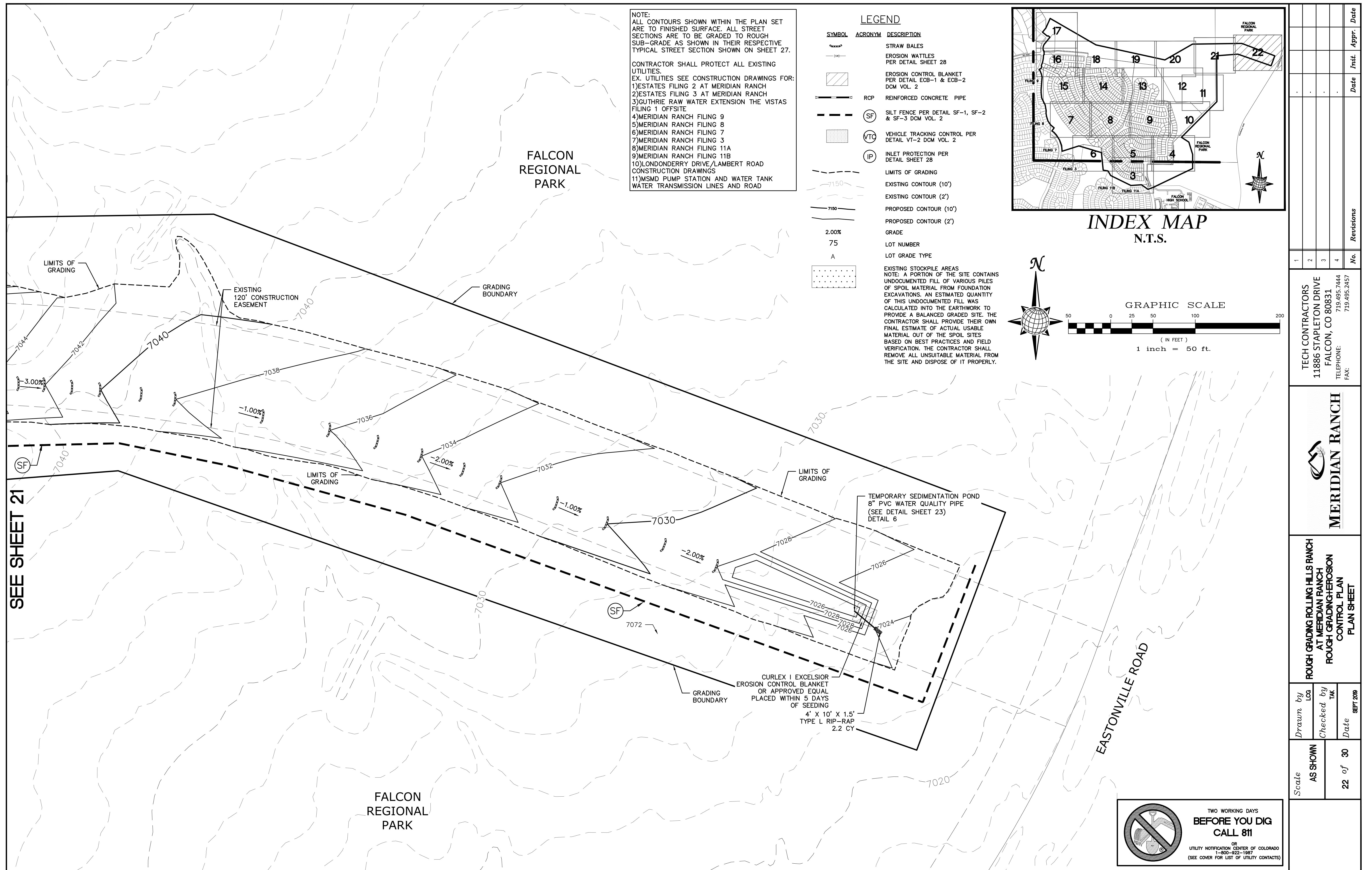




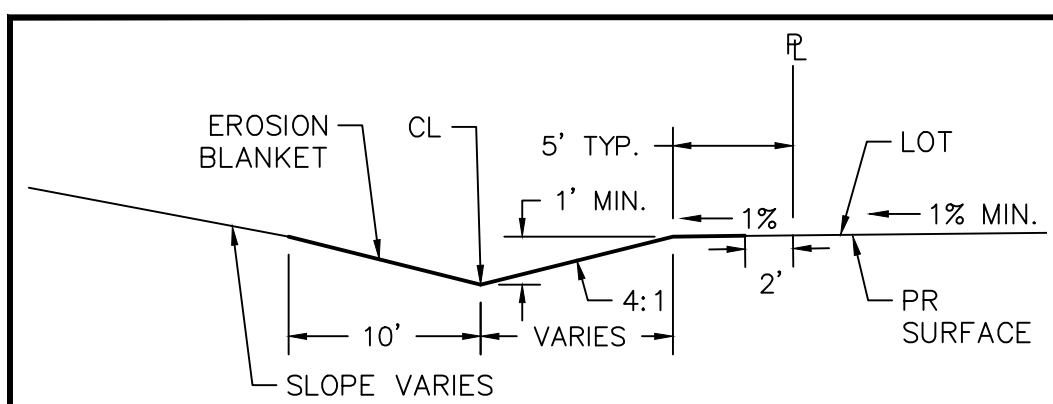




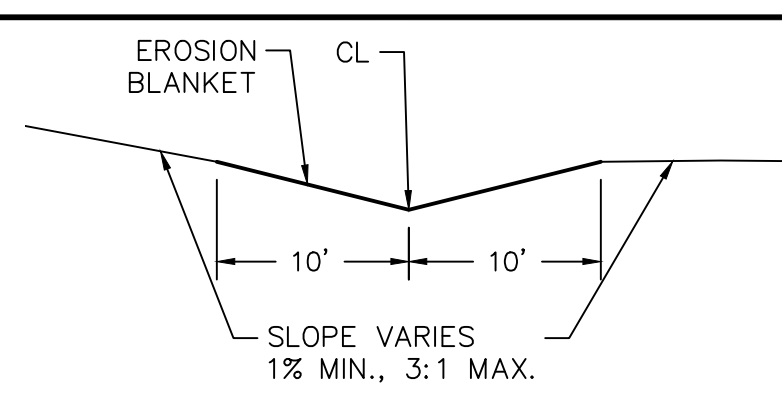




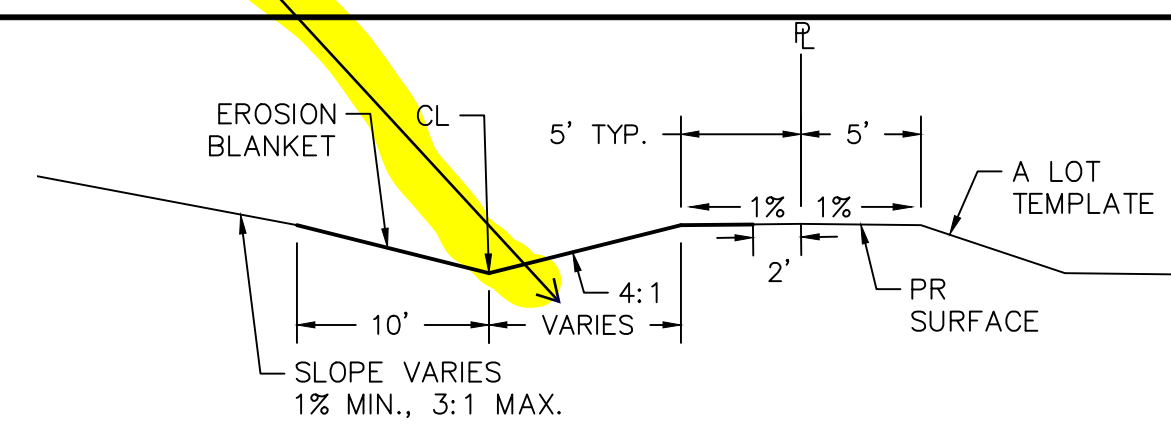




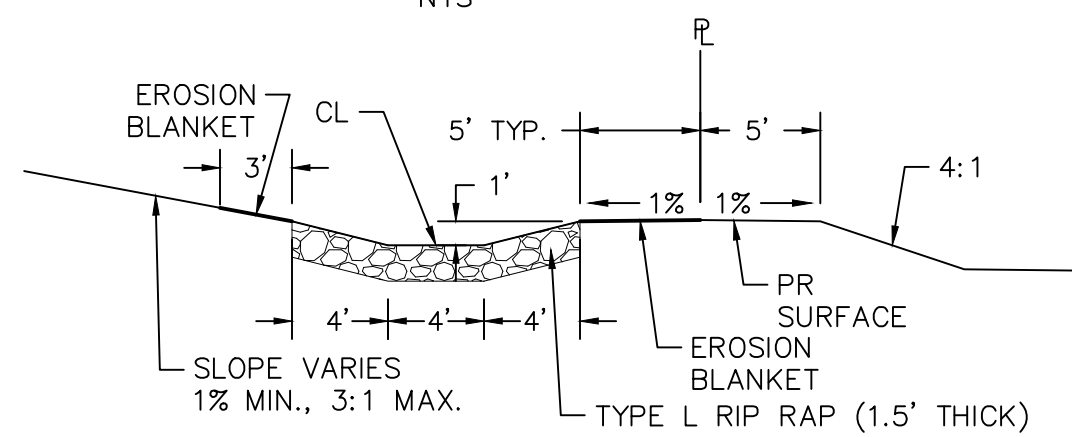
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EROSION CONTROL BLANKET  
CROSS SECTION  
NTS



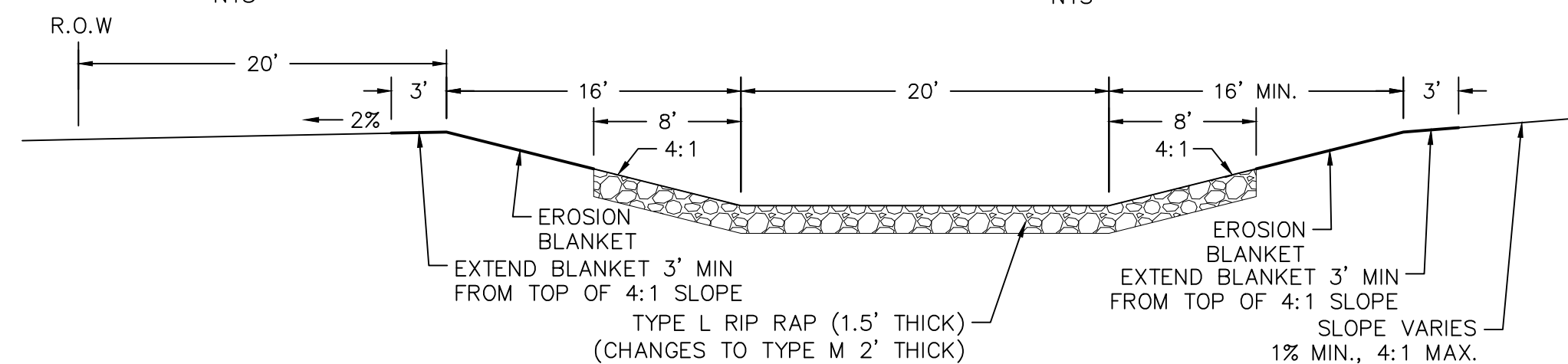
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EROSION CONTROL BLANKET  
CROSS SECTION  
NTS



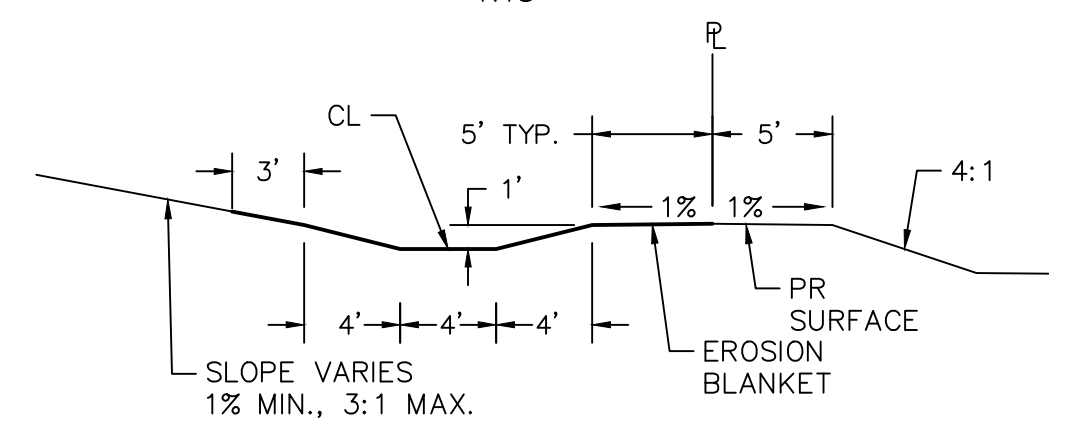
DETAIL C-C'  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS



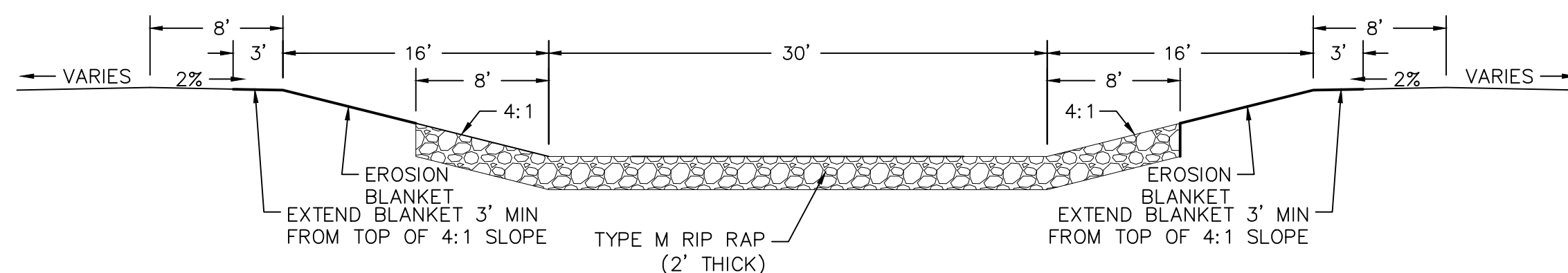
DETAIL D-D'  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS



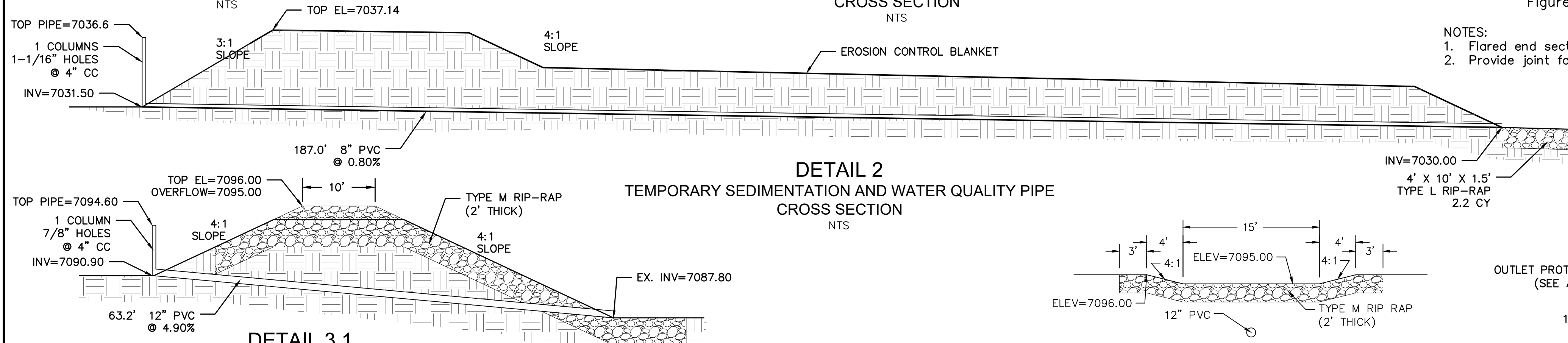
DETAIL F-F'  
CHANNEL RIP RAP  
CROSS SECTION  
NTS



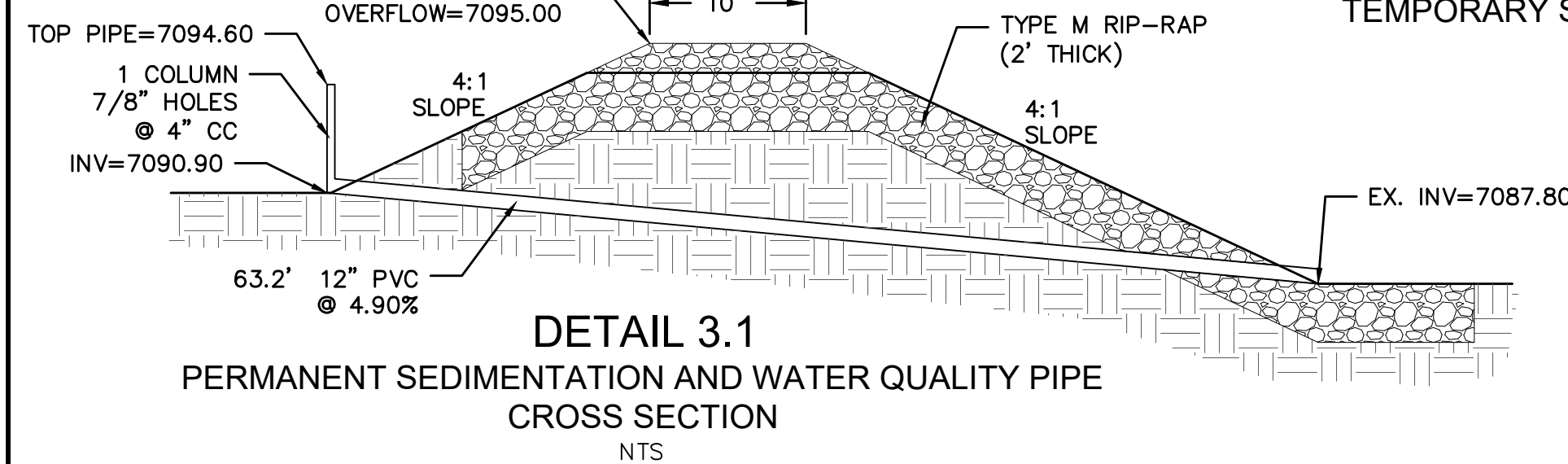
DETAIL E-E'  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS — TOP 5



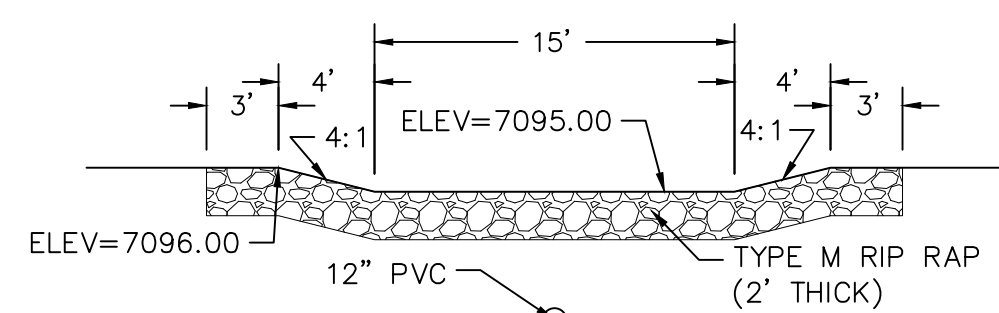
DETAIL G-G'  
CHANNEL RIP RAP  
CROSS SECTION  
NTS



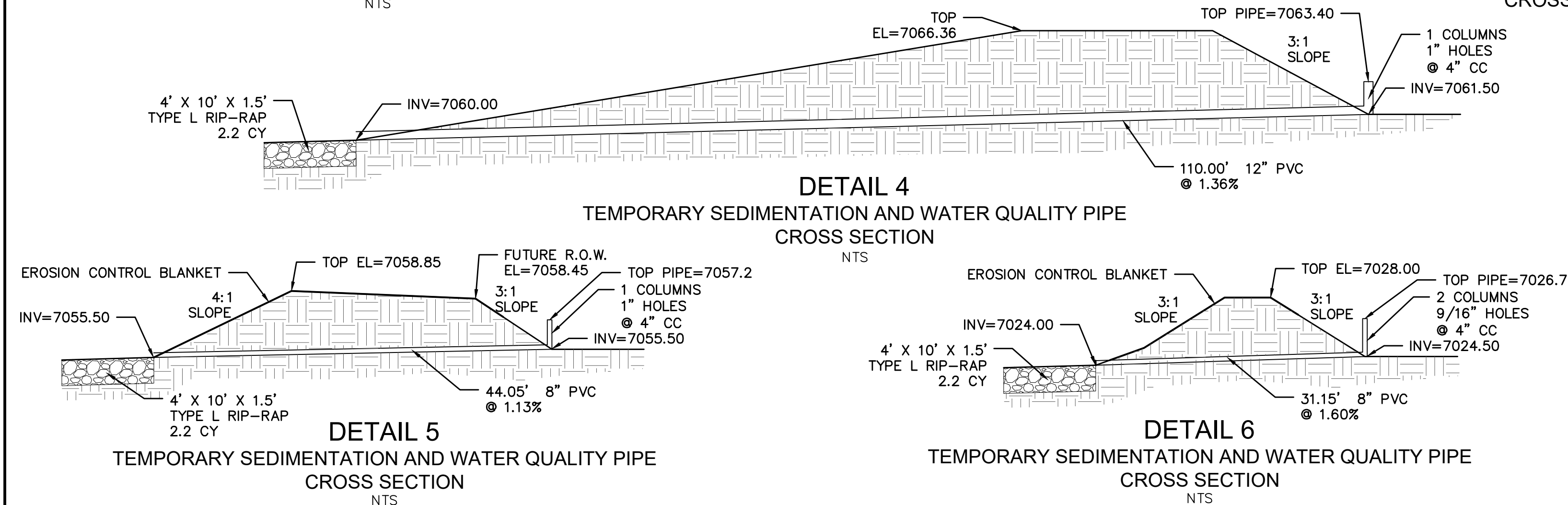
DETAIL 2  
MENTATION AND WATER QUALITY PIPE  
CROSS SECTION  
NTS



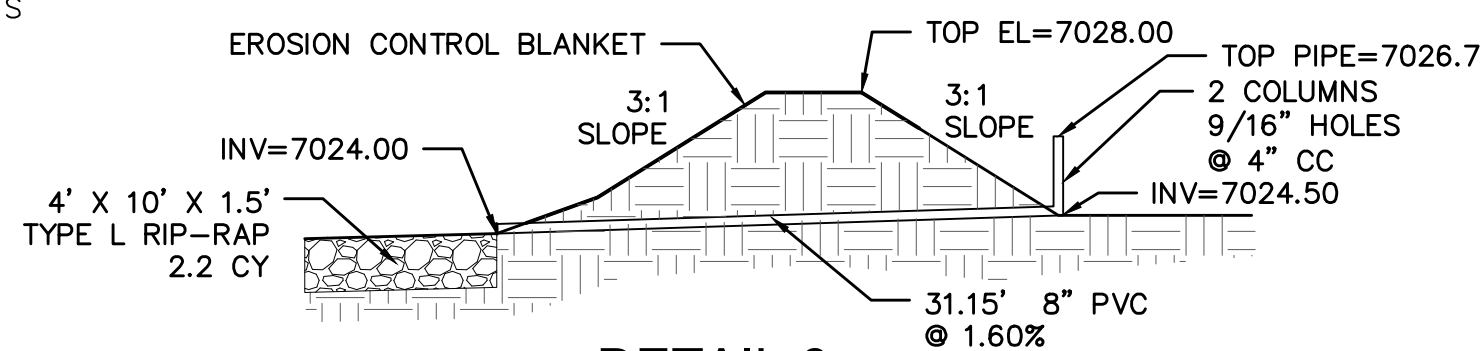
**DETAIL 3.1**  
**ENTATION AND WATER QUALITY PIPE**  
**CROSS SECTION**  
 NTS



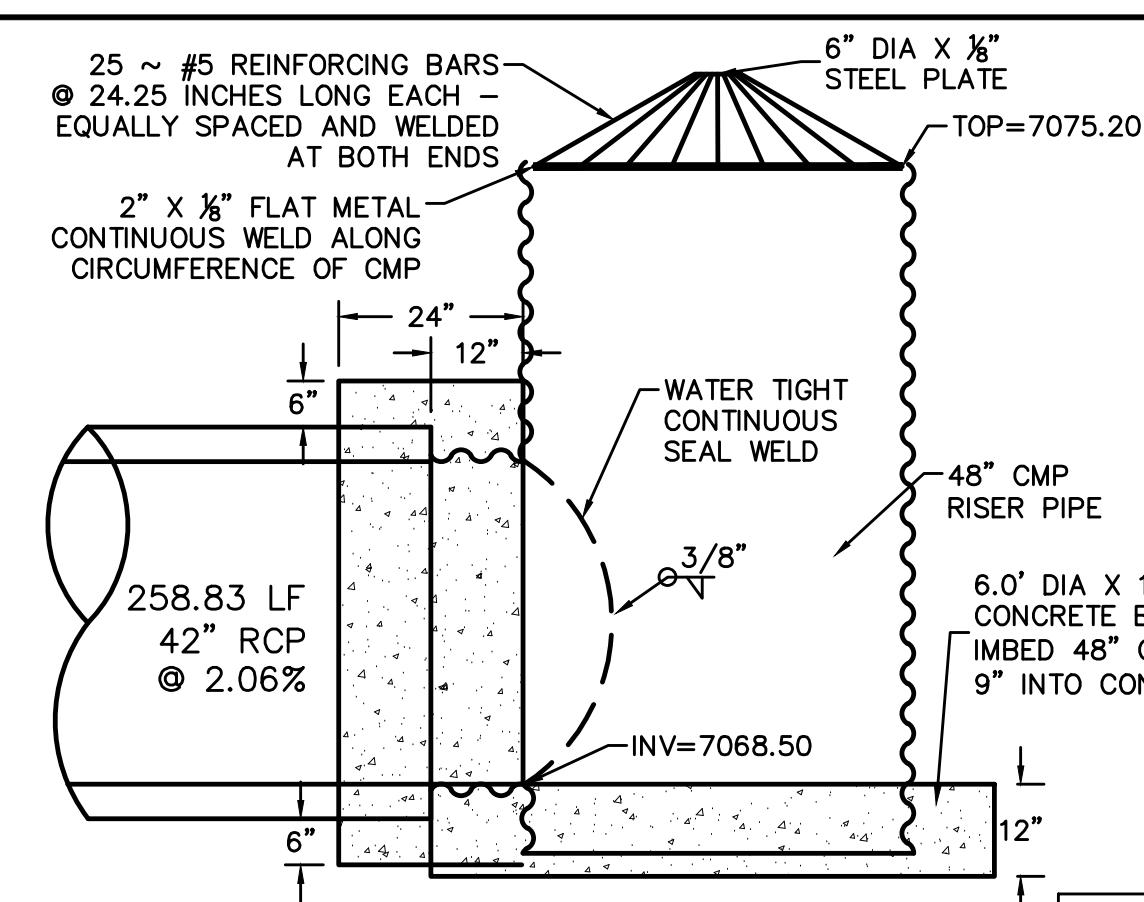
**DETAIL 3.2**  
**PERMANENT SEDIMENTATION SPILLWAY**  
**CROSS SECTION**  
NTS



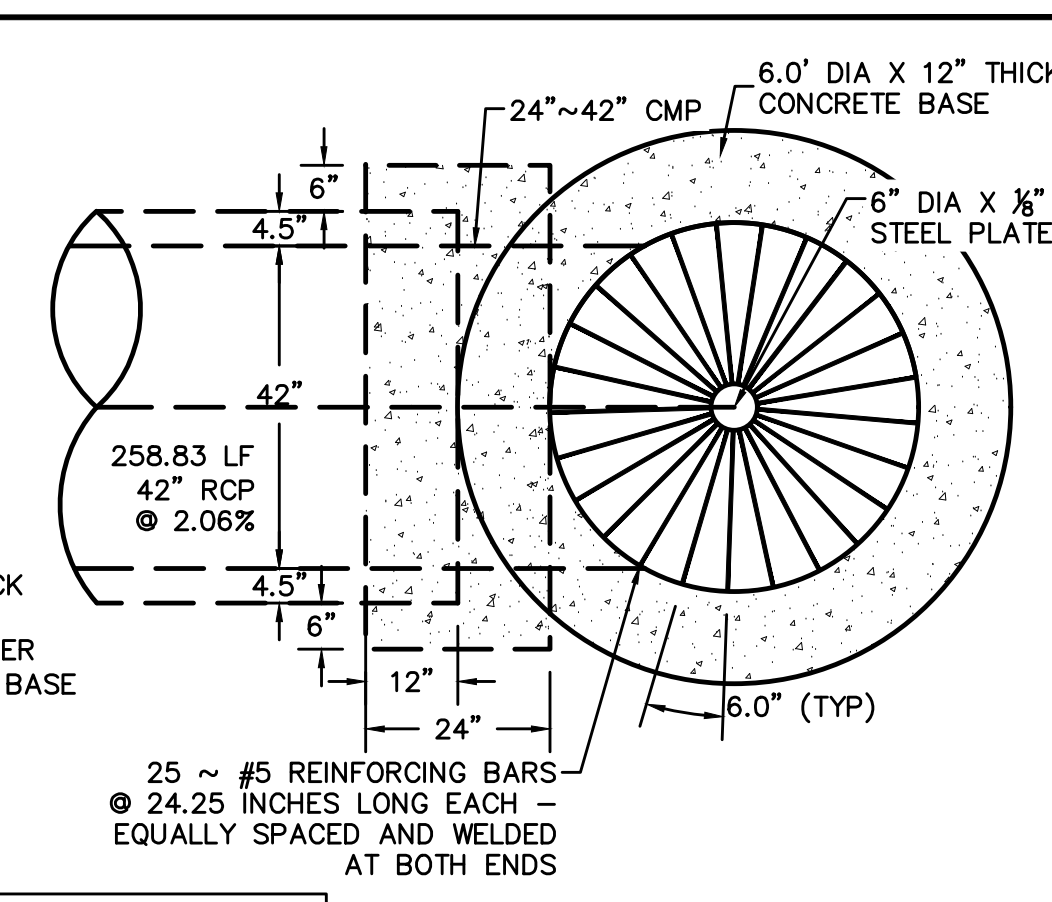
DETAIL 5  
MENTATION AND WATER QUALITY PIPE  
CROSS SECTION  
NTS



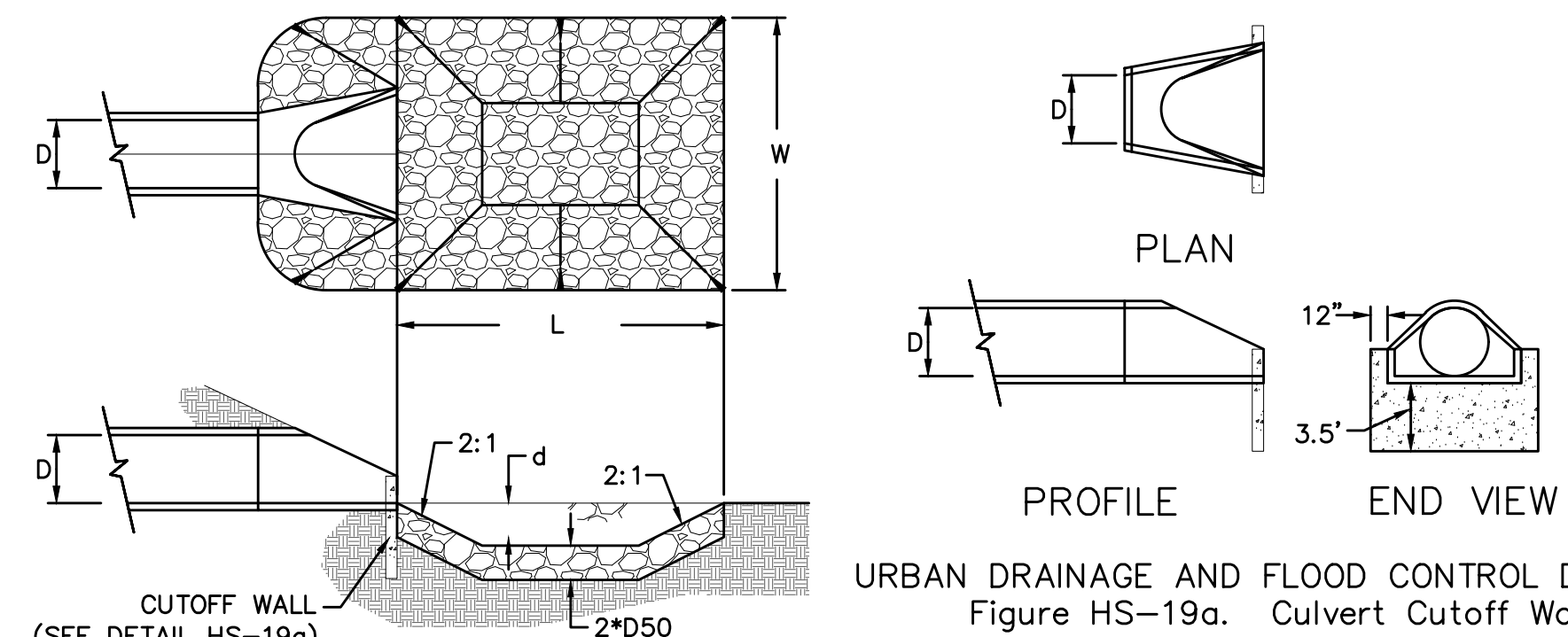
DETAIL 6  
TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
CROSS SECTION  
NTS



CONTROL STRUCTURE  
SIDE VIEW  
NTS



CONTROL STRUCTURE  
TOP VIEW  
NTS



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

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

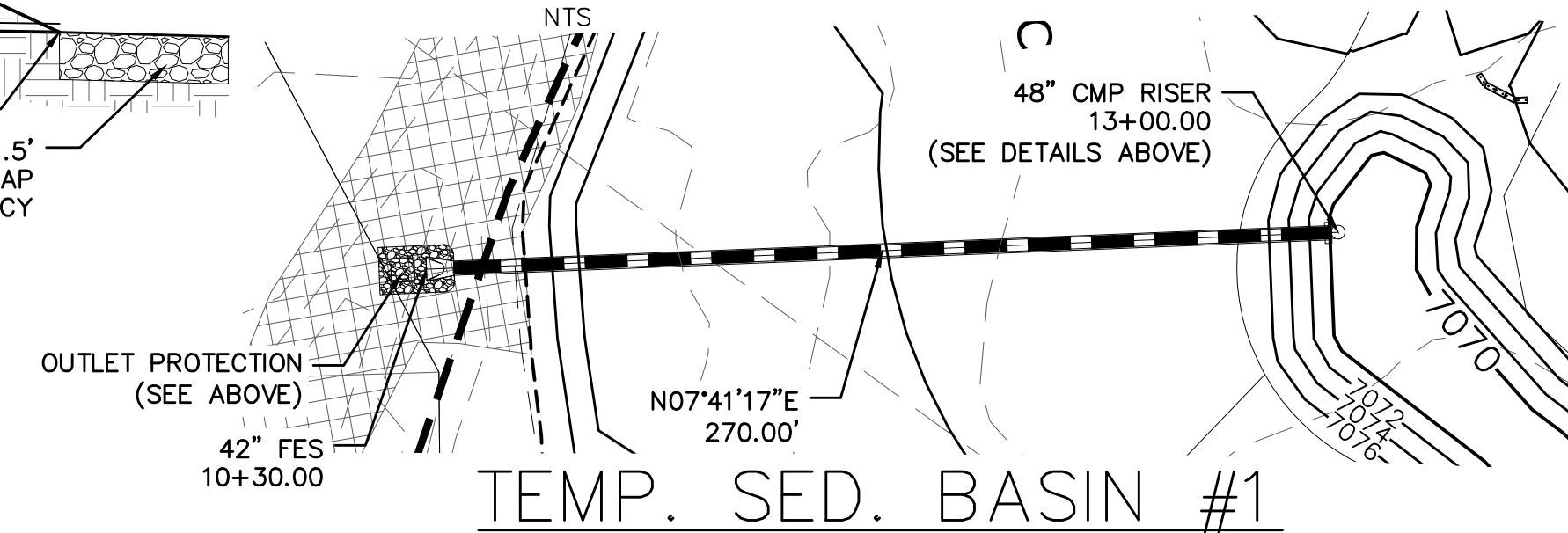
PIPE OUTLET	L	W	d	TYPE	D <sub>50</sub>	CY	NOTES
OS-2 42"	14.0	14.0	1.75	M	1.00'	19.2	SEE BELOW

NOTES:

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

OS-2

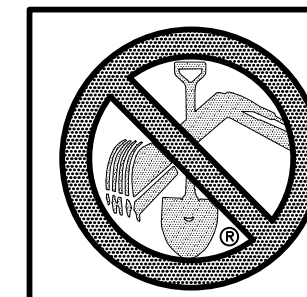
OS-2  
OUTLET PROTECTION DETAIL



TEMP. SED. BASIN #1


Profile view of a sewer line. The vertical axis shows elevations from 7055 to 7080. The horizontal axis shows stationing from 10+00 to 12+00. The diagram includes a proposed surface (solid line), an existing surface (dashed line), and a hydraulic grade line (HGL, solid line). A 42" RCP pipe is shown with a 2.06% slope. Key points include:
 

- Top of existing surface at station 10+16.00, elevation 7062.61.
- Top of 42" RCP at station 10+30.00, elevation 7063.00.
- 48" CMP riser at station 13+00.00, RIM=7075.20, INV. OUT=7068.50.
- Flow rates:  $Q_5 = 30$  CFS,  $Q_{100} = 85$  CFS.

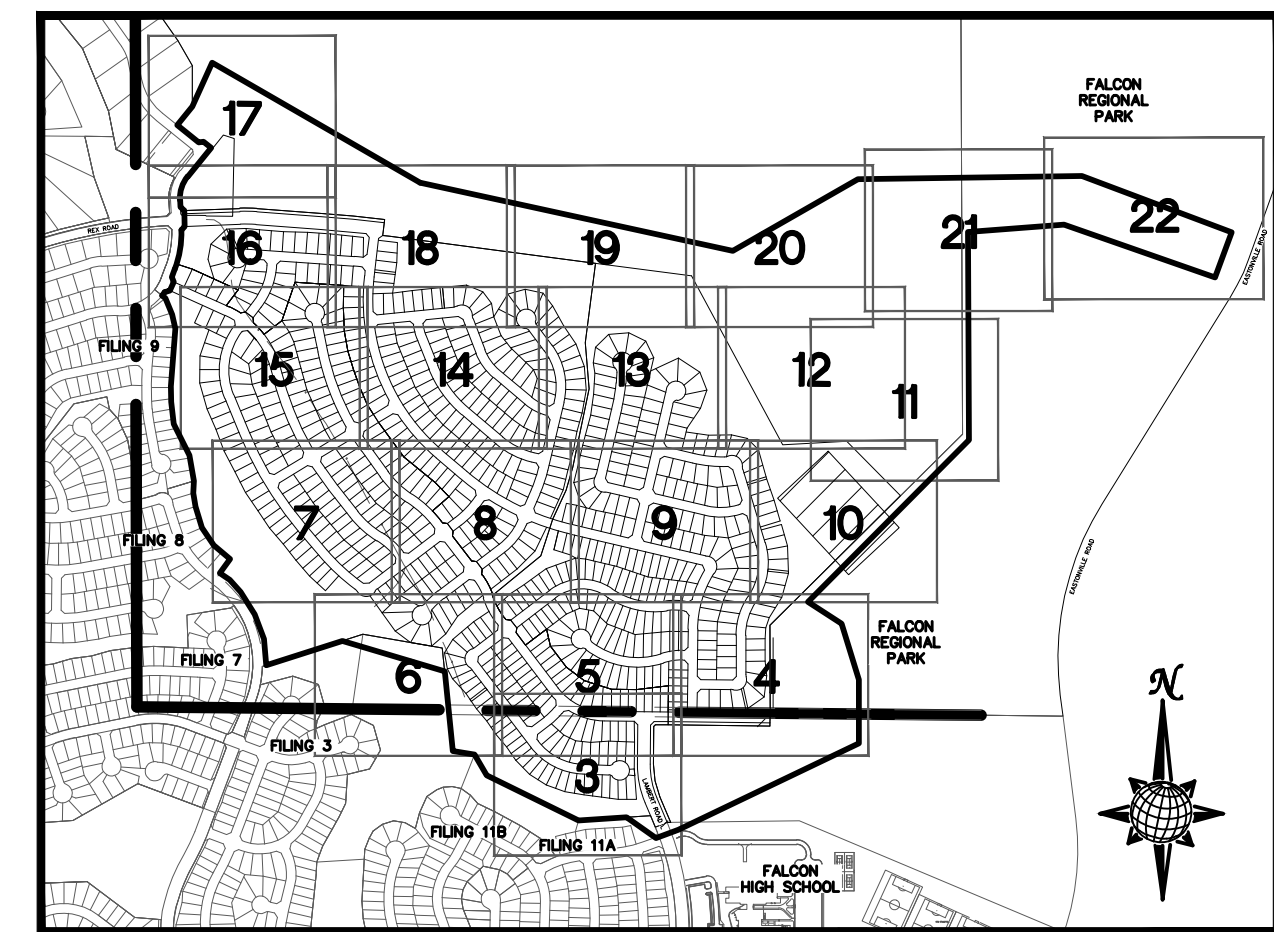
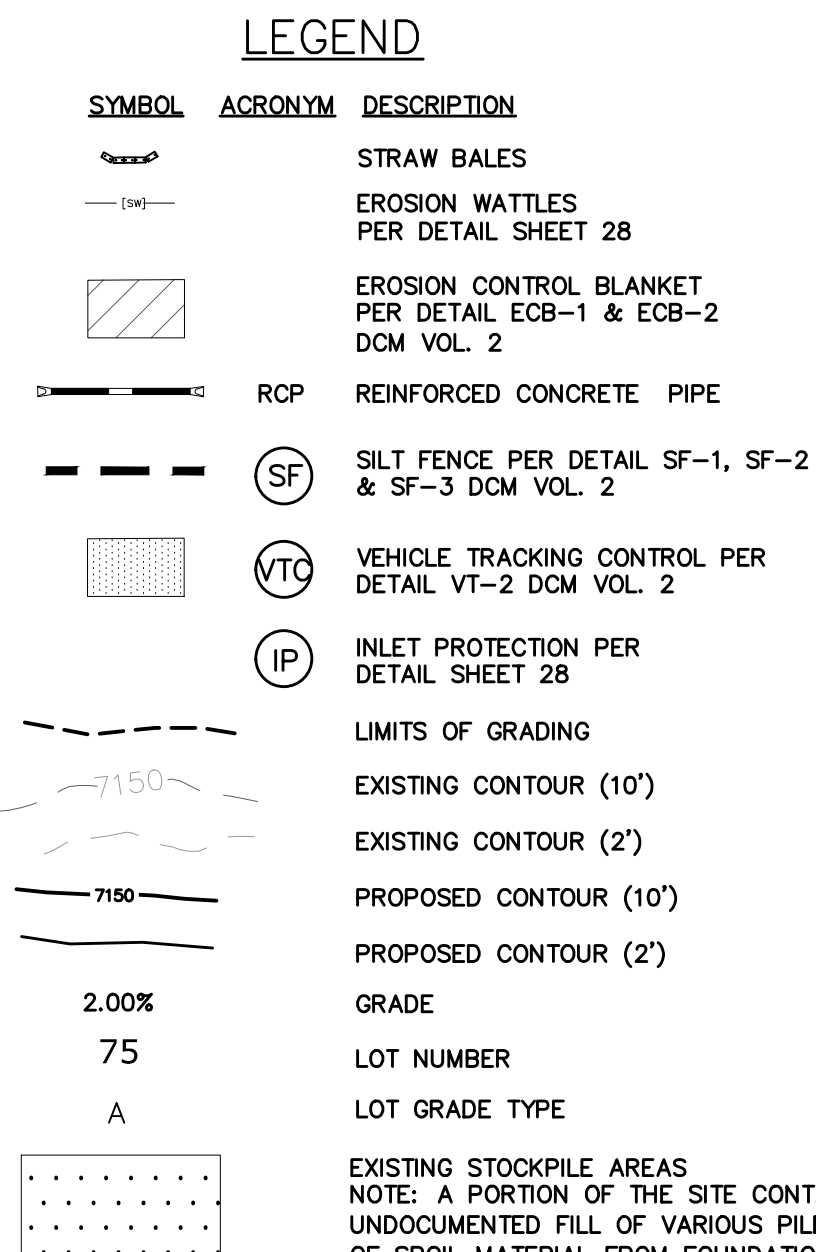
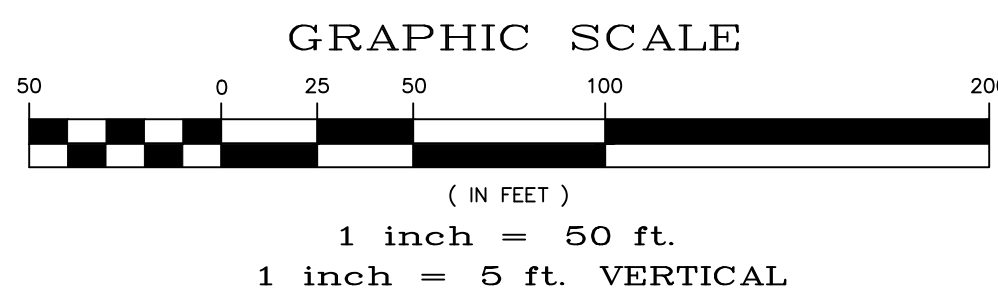
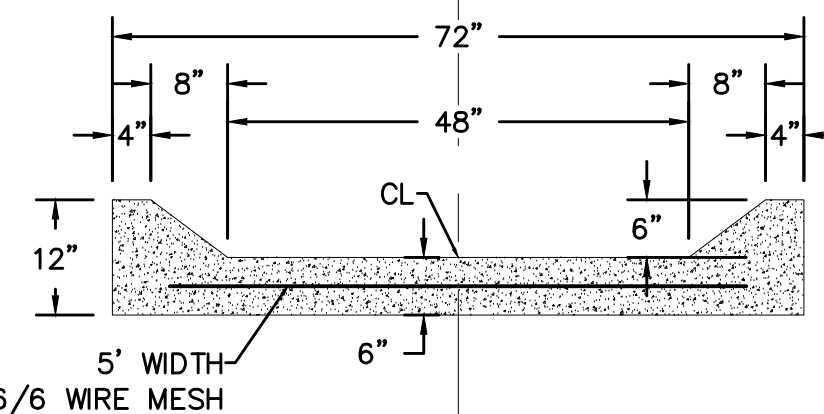
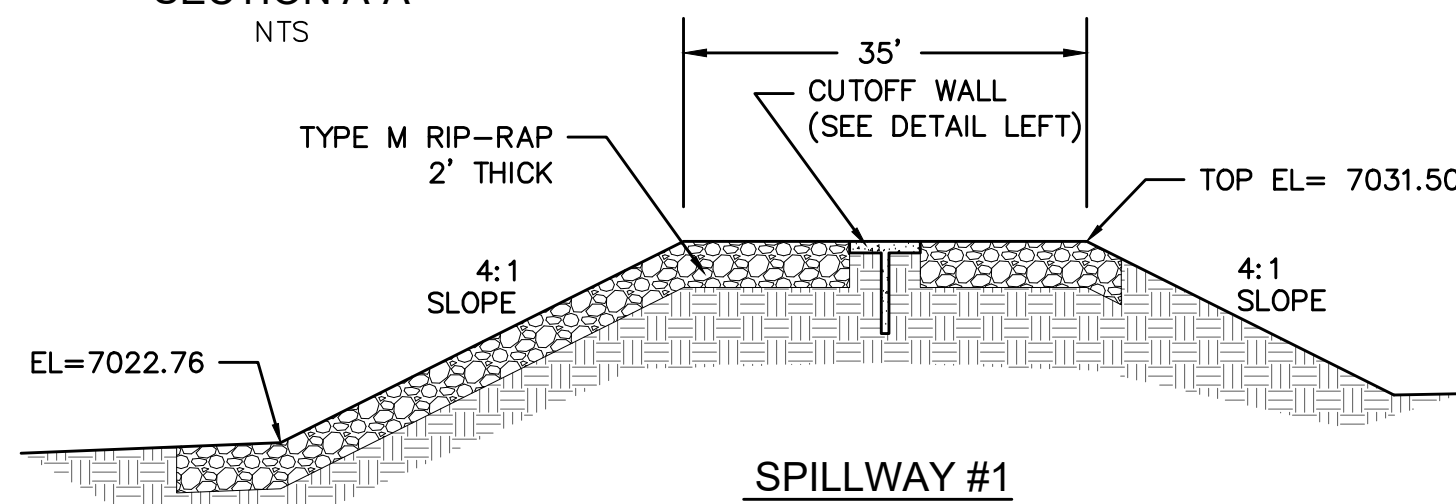
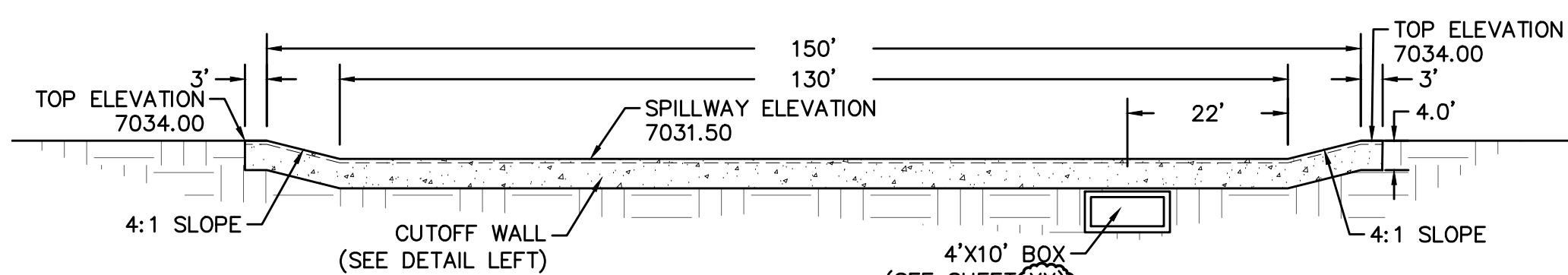
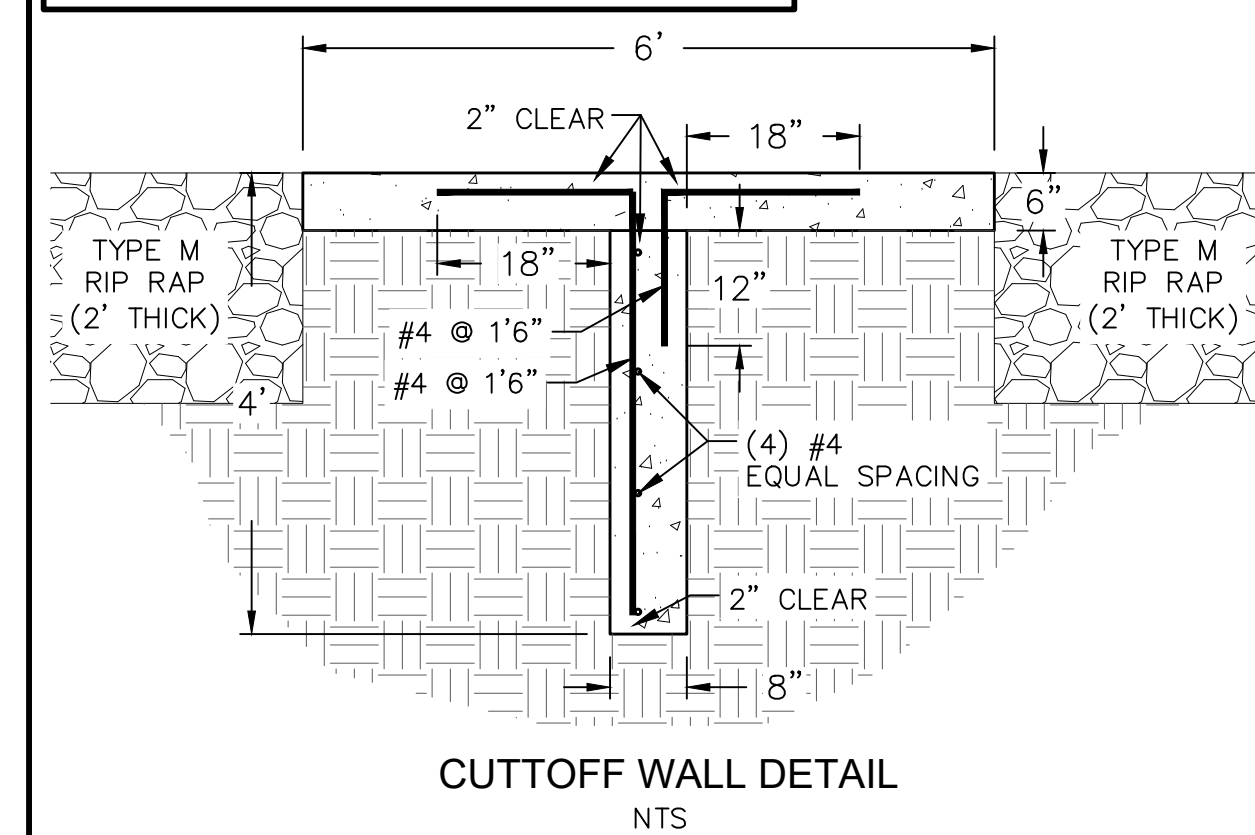
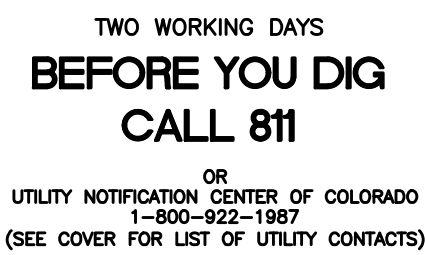


**TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811**

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

<div>Scale</div> <div>AS SHOWN</div> <div>23 of 30</div>	<div>Drawn by</div> <div>Log</div>	<div>ROUGH GRADING ROLLING HILLS RANCH</div> <div>AT MERIDIAN RANCH</div> <div>ROUGH GRADING/EROSION</div> <div>CONTROL PLAN</div> <div>DETAIL SHEET</div>	<div></div> <div>MERIDIAN RANCH</div>	<div>TECH CONTRACTORS</div> <div>11886 STAPLETON DRIVE</div> <div>FALCON, CO 80831</div> <div>TELEPHONE: 719.495.7444</div> <div>FAX: 719.495.2457</div>	1	-		
	<div>Checked by</div> <div>TAC</div>				2	-		
	<div>Date</div> <div>SEPT 2019</div>				3	-		
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					No.	Revisions	Date	Init.



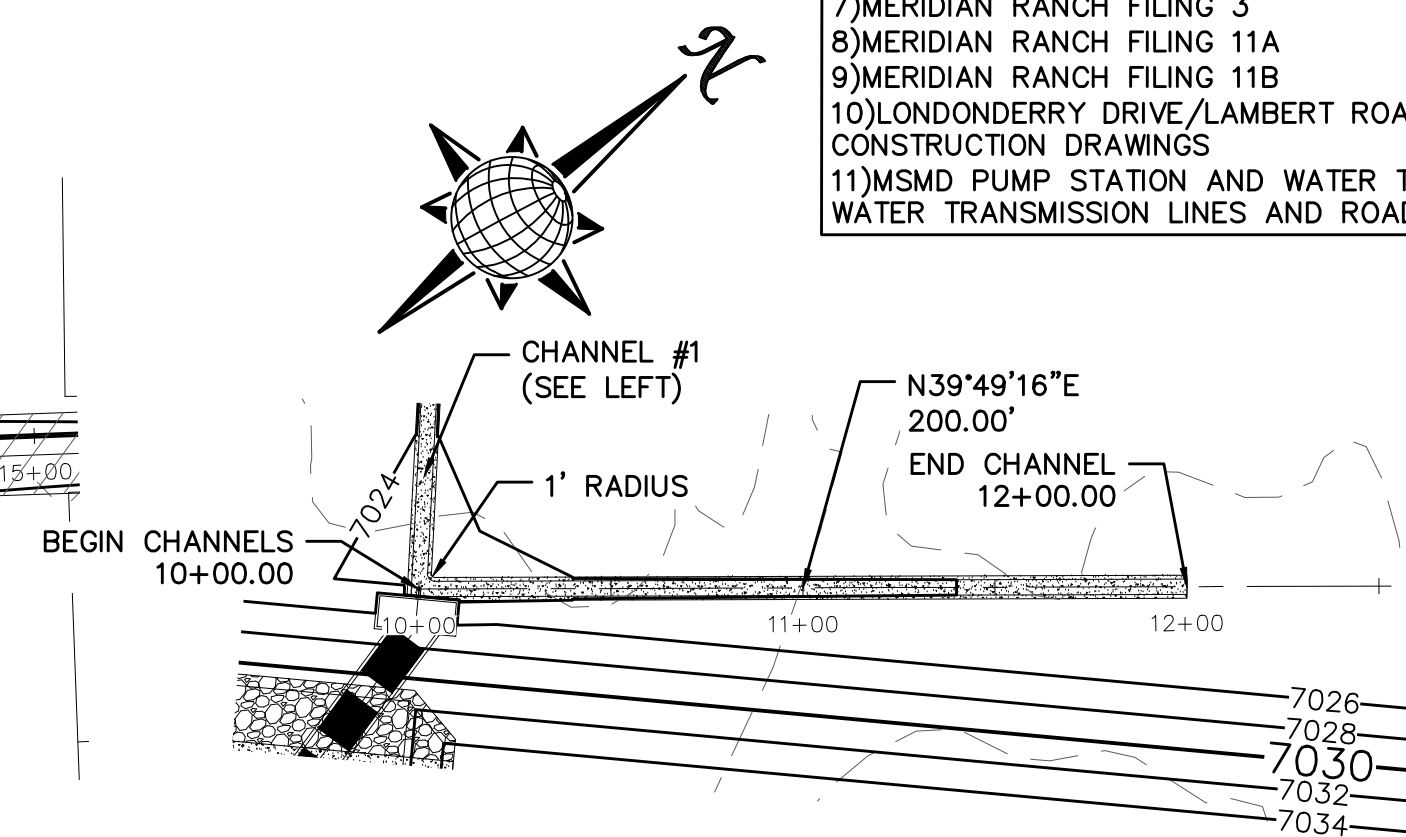
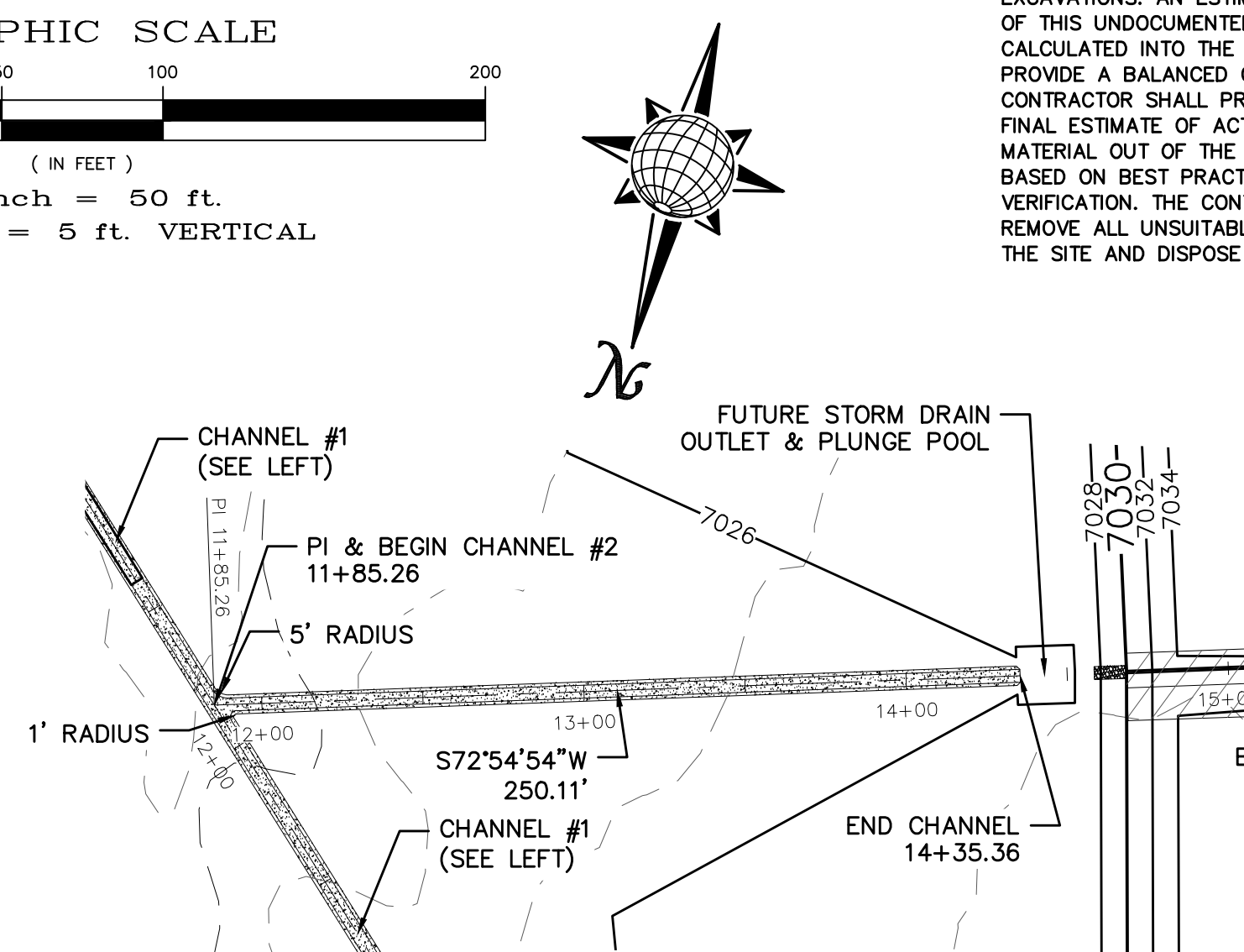
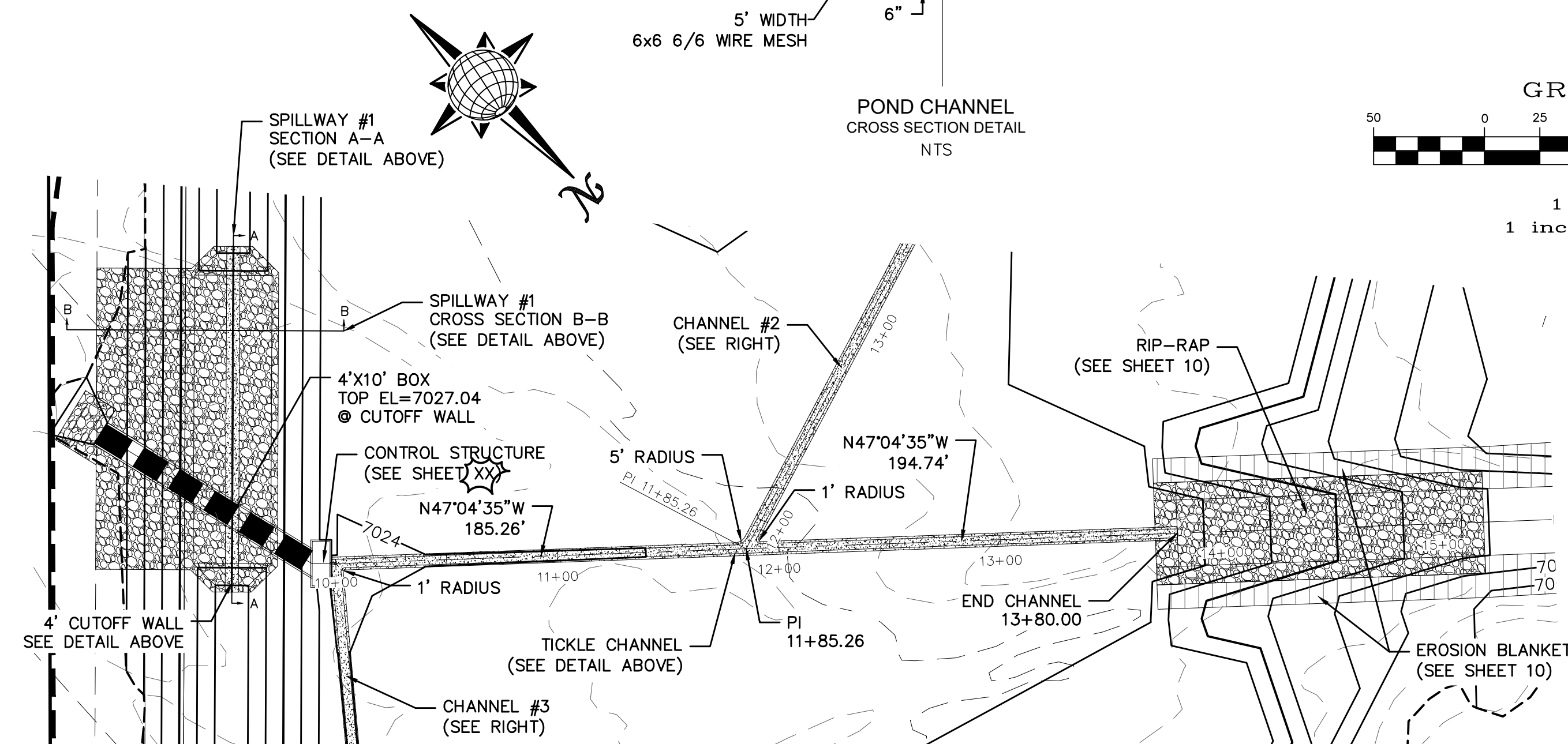


*INDEX MAP*  
N.T.S.

NOTE:  
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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.

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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:

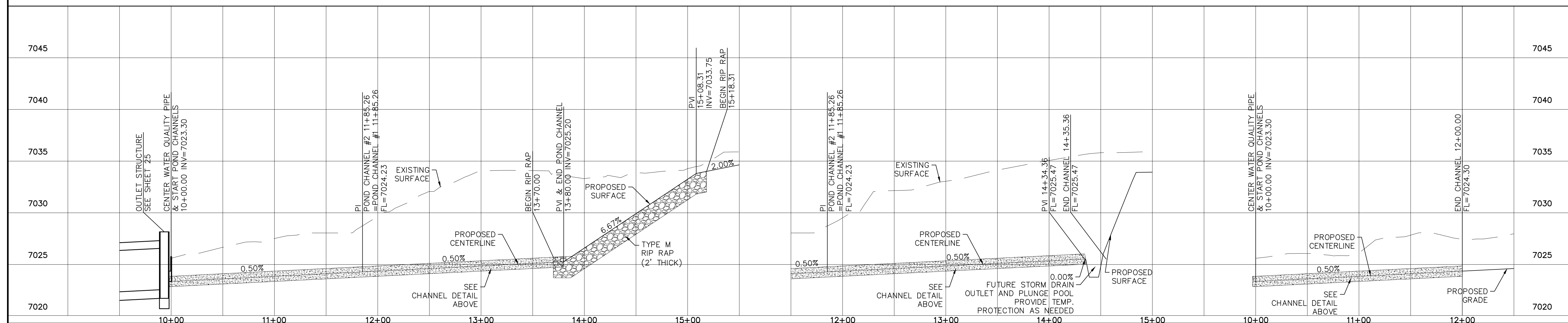
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- 2)ESTATES FILING 3 AT MERIDIAN RANCH
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- 10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
- 11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND RANK



POND CHANNEL #1

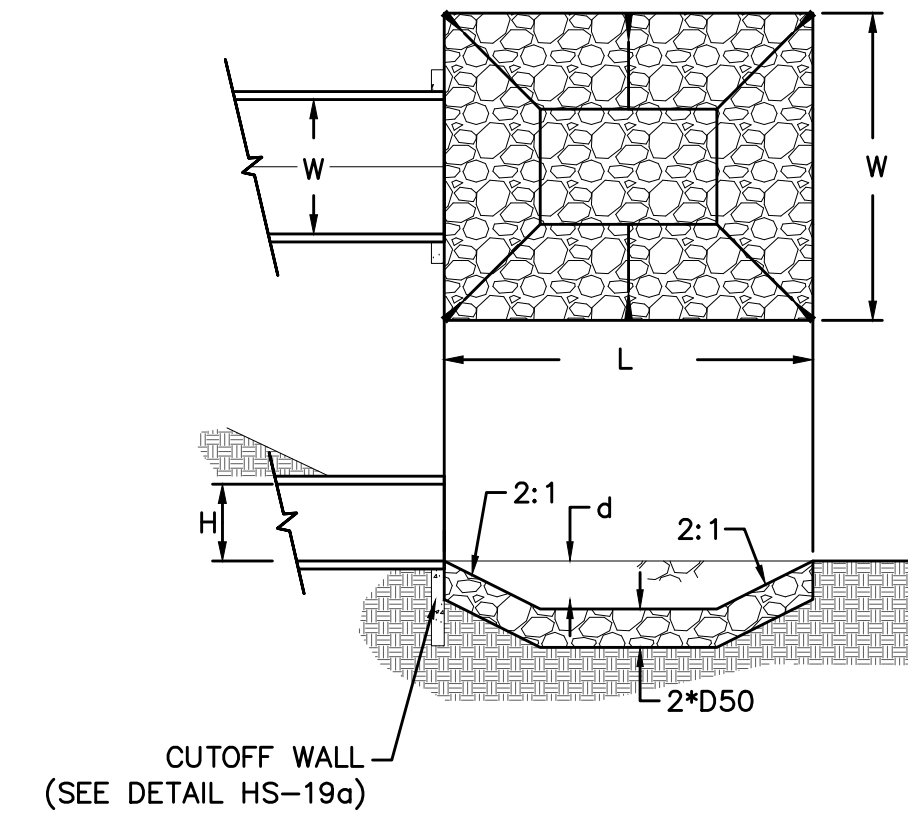
POND CHANNEL #2

POND CHANNEL #3



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

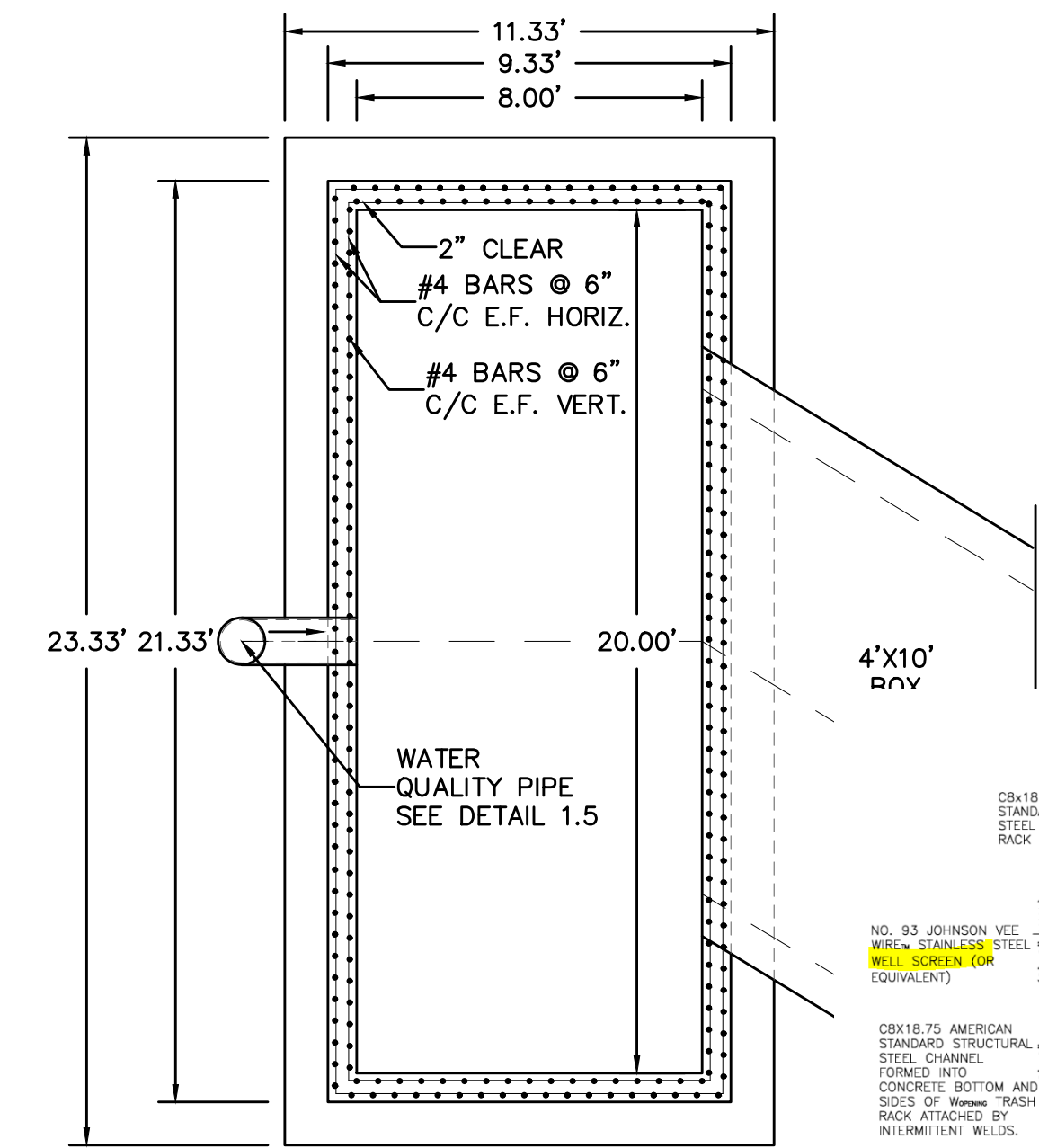




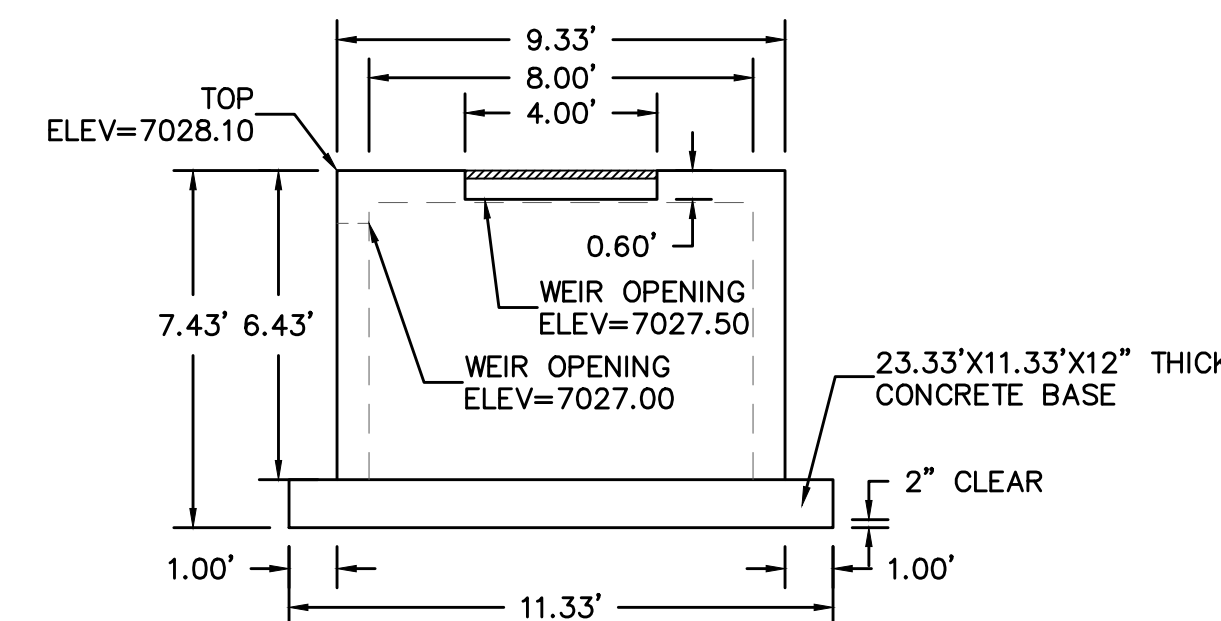
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED\*)  
Figure HS-19. Culvert and Outlet Erosion Protection  
\*RIP RAP RECTANGULAR POOL

POND G  
OUTLET PROTECTION DETAIL  
NTS

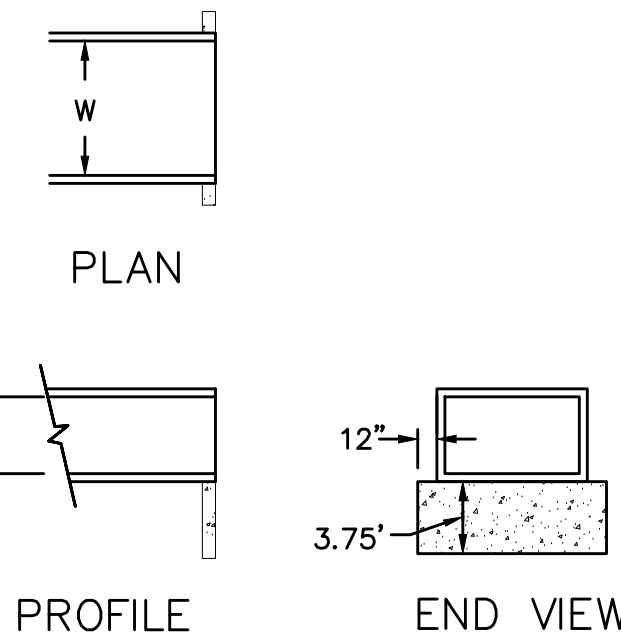
PIPE OUTLET	L	W	d	TYPE	D <sub>50</sub>	CY	NOTES
4'x10' BOX	16.0	26.0	2.0	M	1.00'	33.0	SEE BELOW



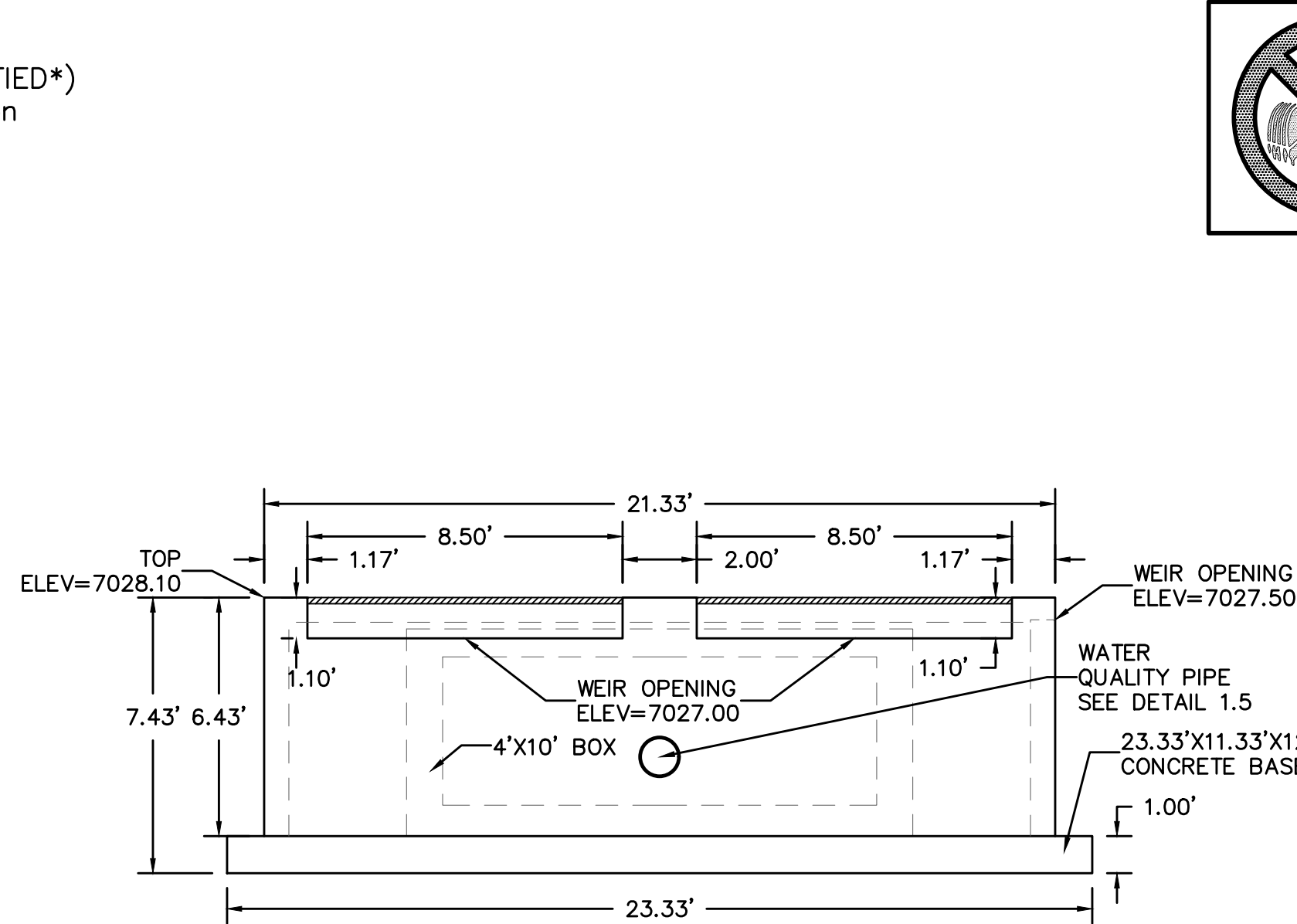
DETAIL 1.1  
OUTLET STRUCTURE  
PLAN VIEW  
NTS



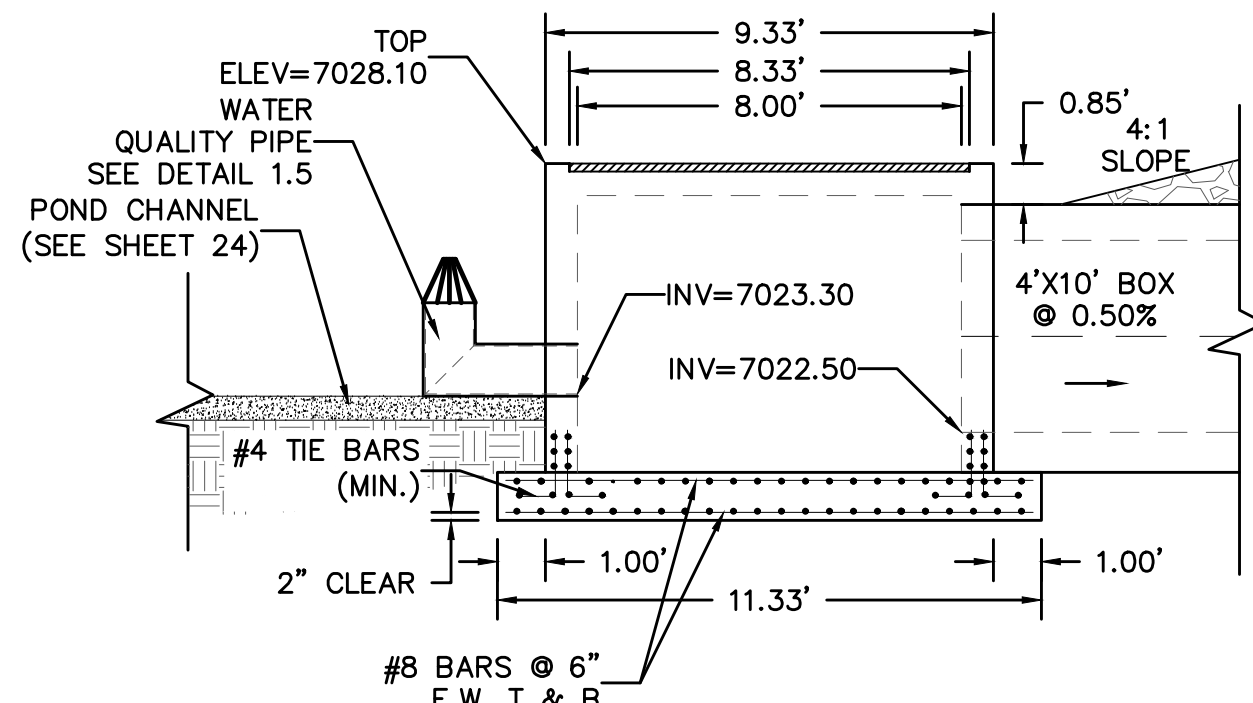
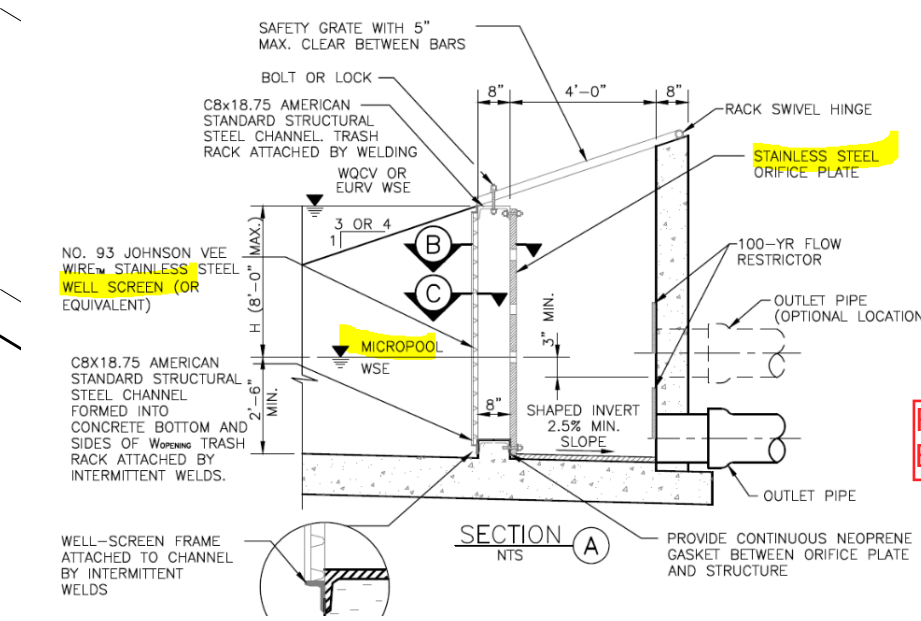
DETAIL 1.3  
OUTLET STRUCTURE  
SIDE VIEW  
NTS



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



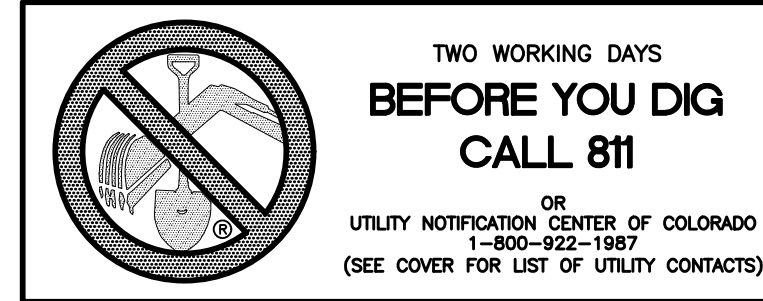
DETAIL 1.2  
OUTLET STRUCTURE  
FRONT VIEW  
NTS



DETAIL 1.4  
OUTLET STRUCTURE  
CROSS SECTION  
NTS

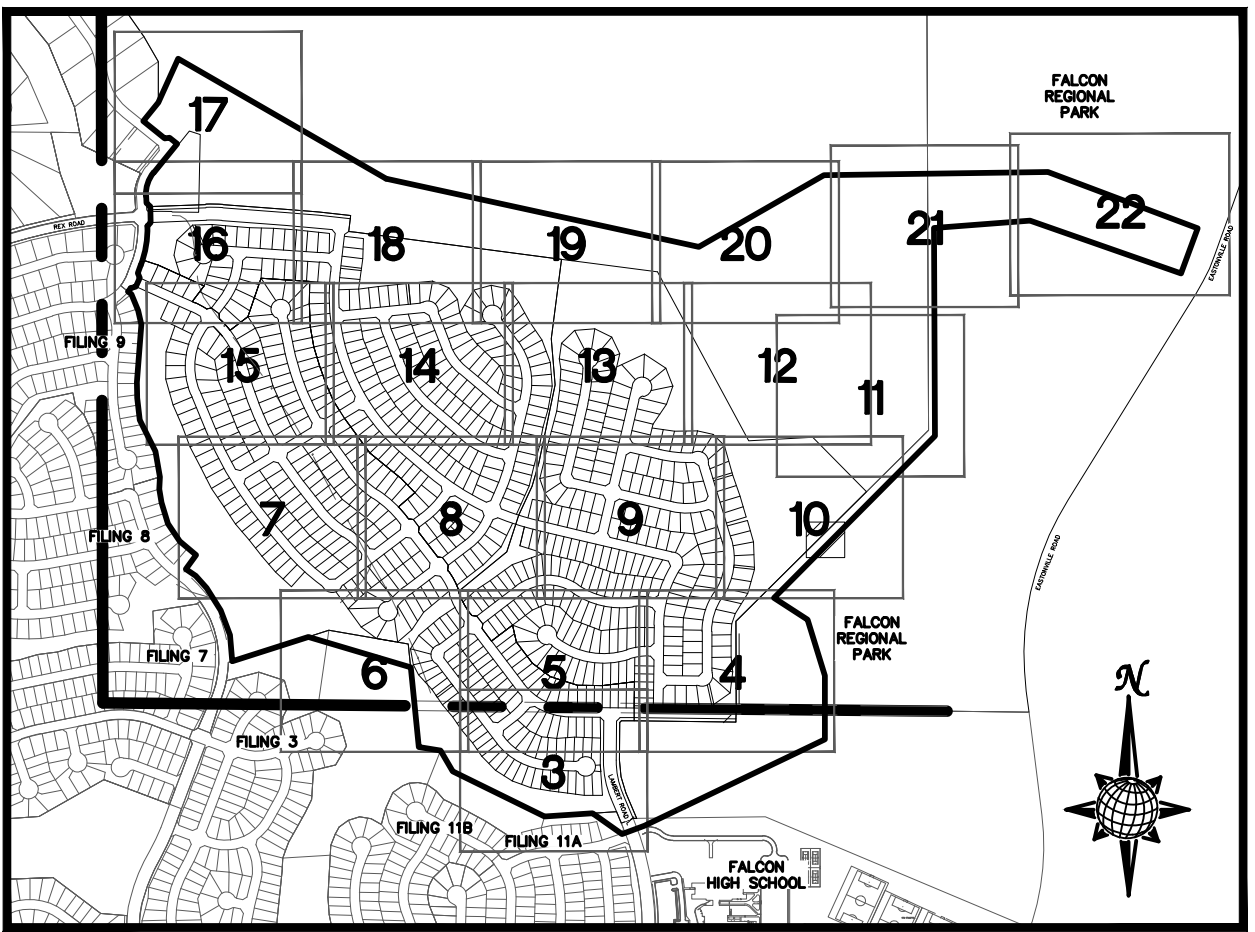
NOTE:  
ALL CONTOURS SHOWN WITHIN THE PLAN SET  
ARE TO FINISHED SURFACE. ALL STREET  
SECTIONS ARE TO BE GRADED TO ROUGH  
SUB-GRADE AS SHOWN IN THEIR RESPECTIVE  
TYPICAL STREET SECTION SHOWN ON SHEET 27.

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

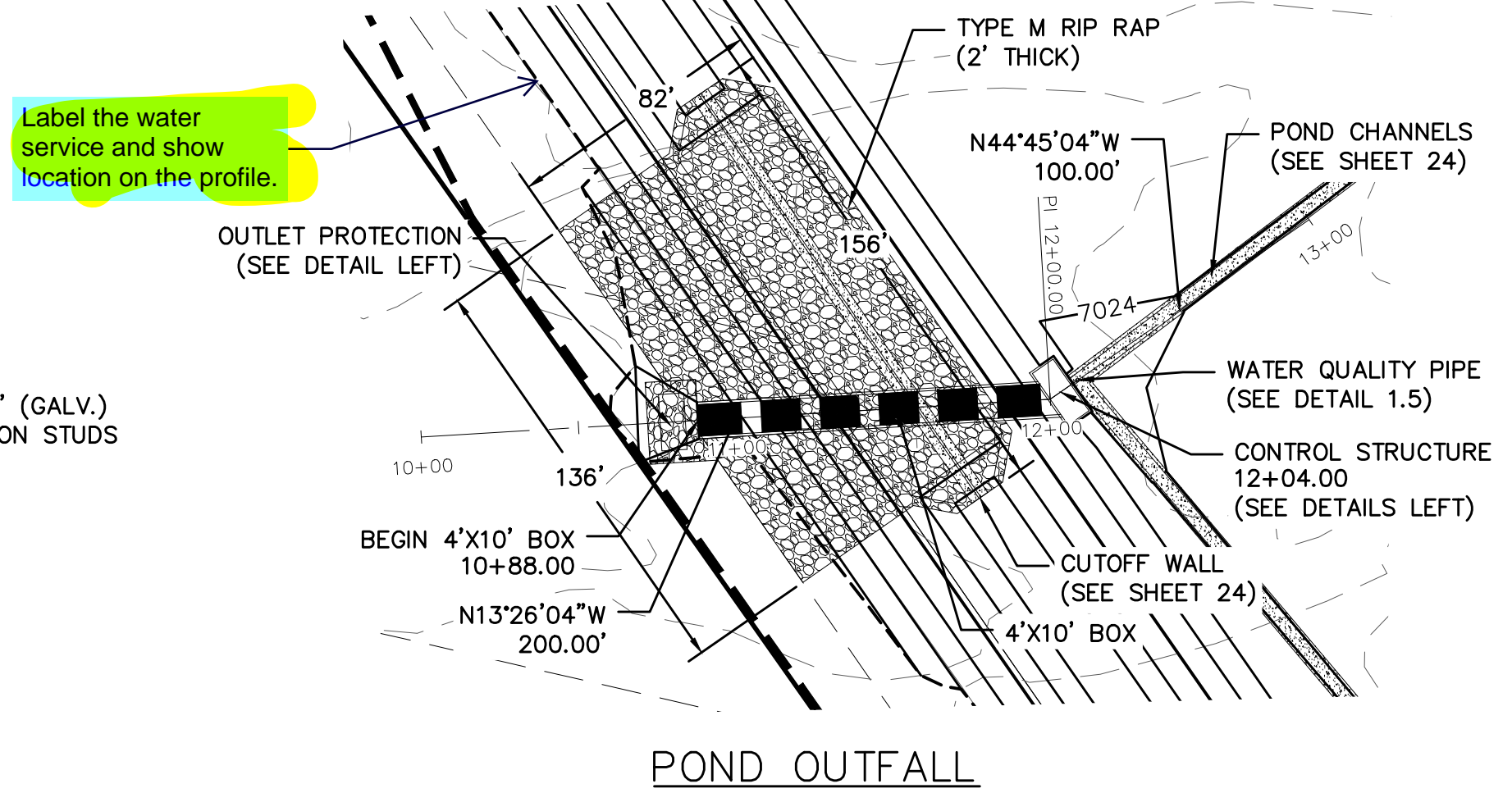
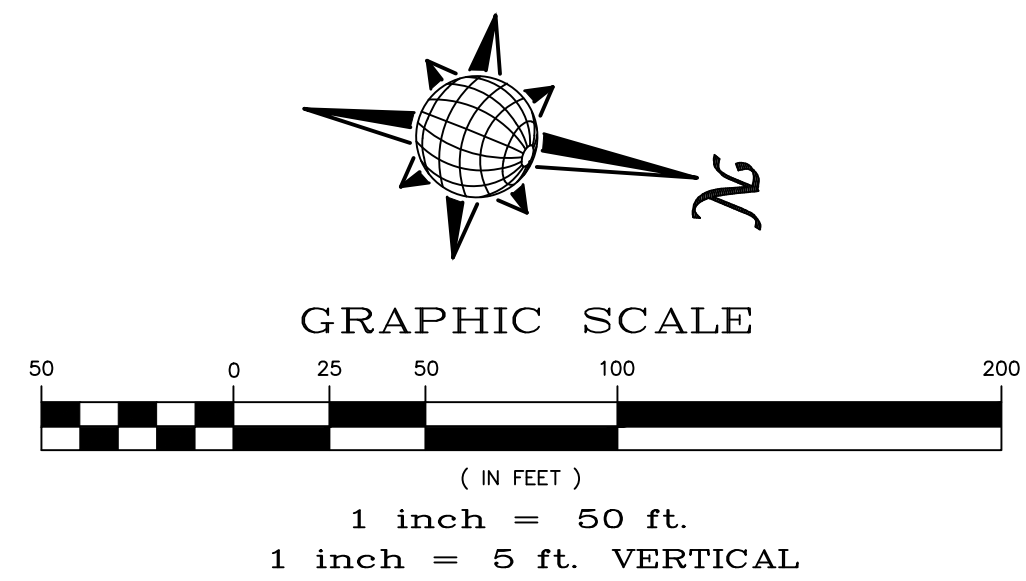


SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 28
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	VT	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION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

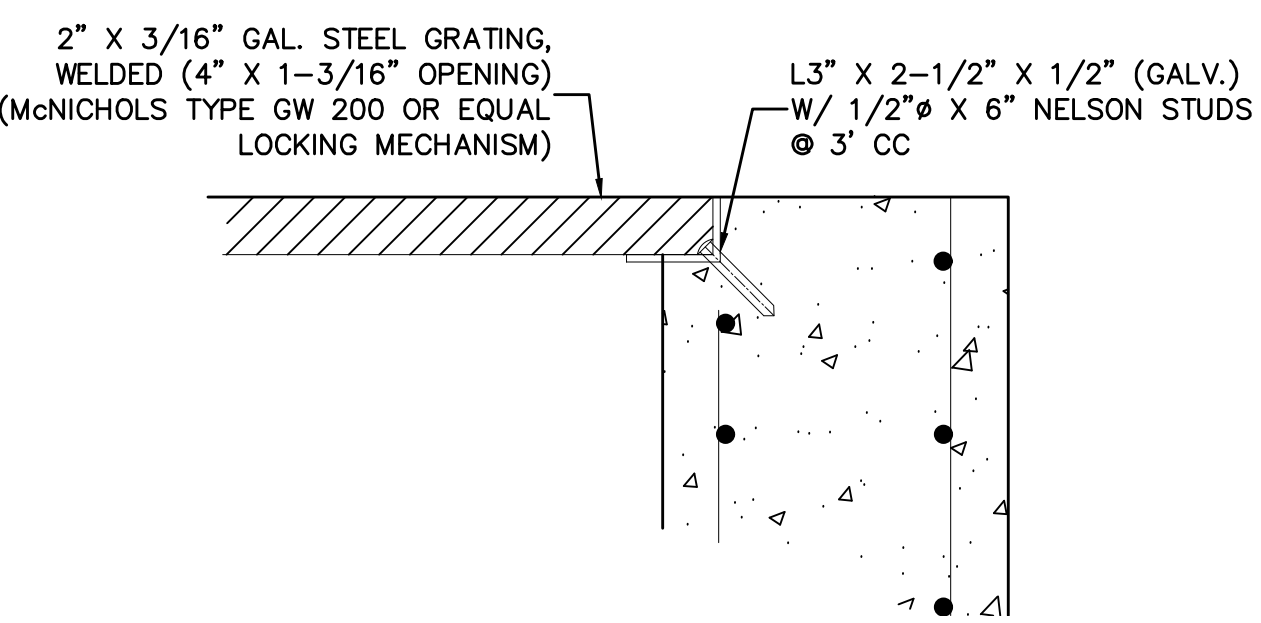
EXISTING STOCKPILE AREAS  
NOTE: A PORTION OF THE SITE CONTAINS  
UNDOCUMENTED FILL OF VARIOUS PILES  
OF SPOIL MATERIAL FROM FOUNDATION  
EXCAVATIONS. AN ESTIMATED QUANTITY  
OF THIS UNDOCUMENTED FILL WAS  
CALCULATED INTO THE EARTHWORK TO  
PROVIDE A BALANCED GRADED SITE. THE  
CONTRACTOR SHALL PROVIDE 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.



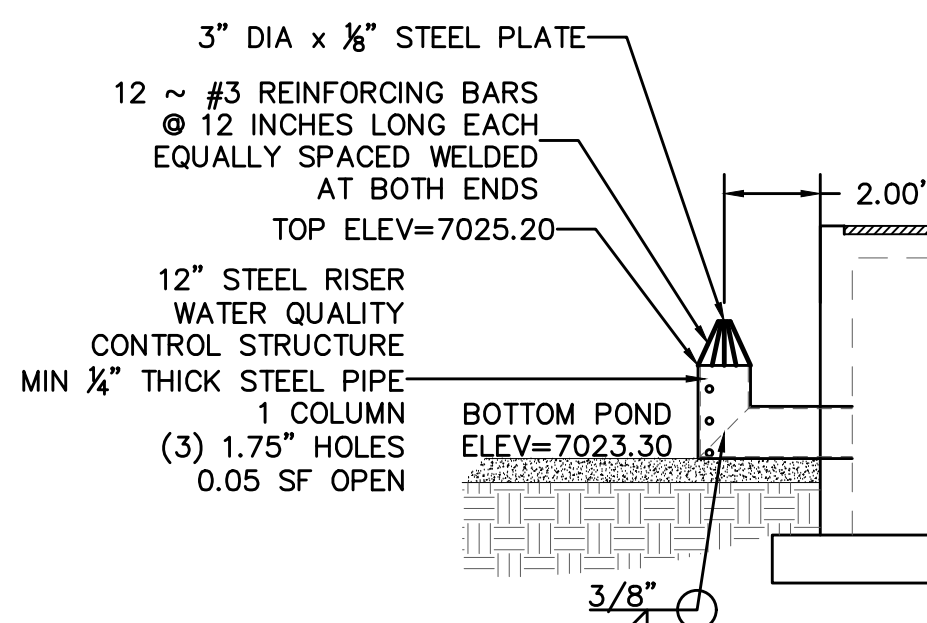
INDEX MAP  
N.T.S.



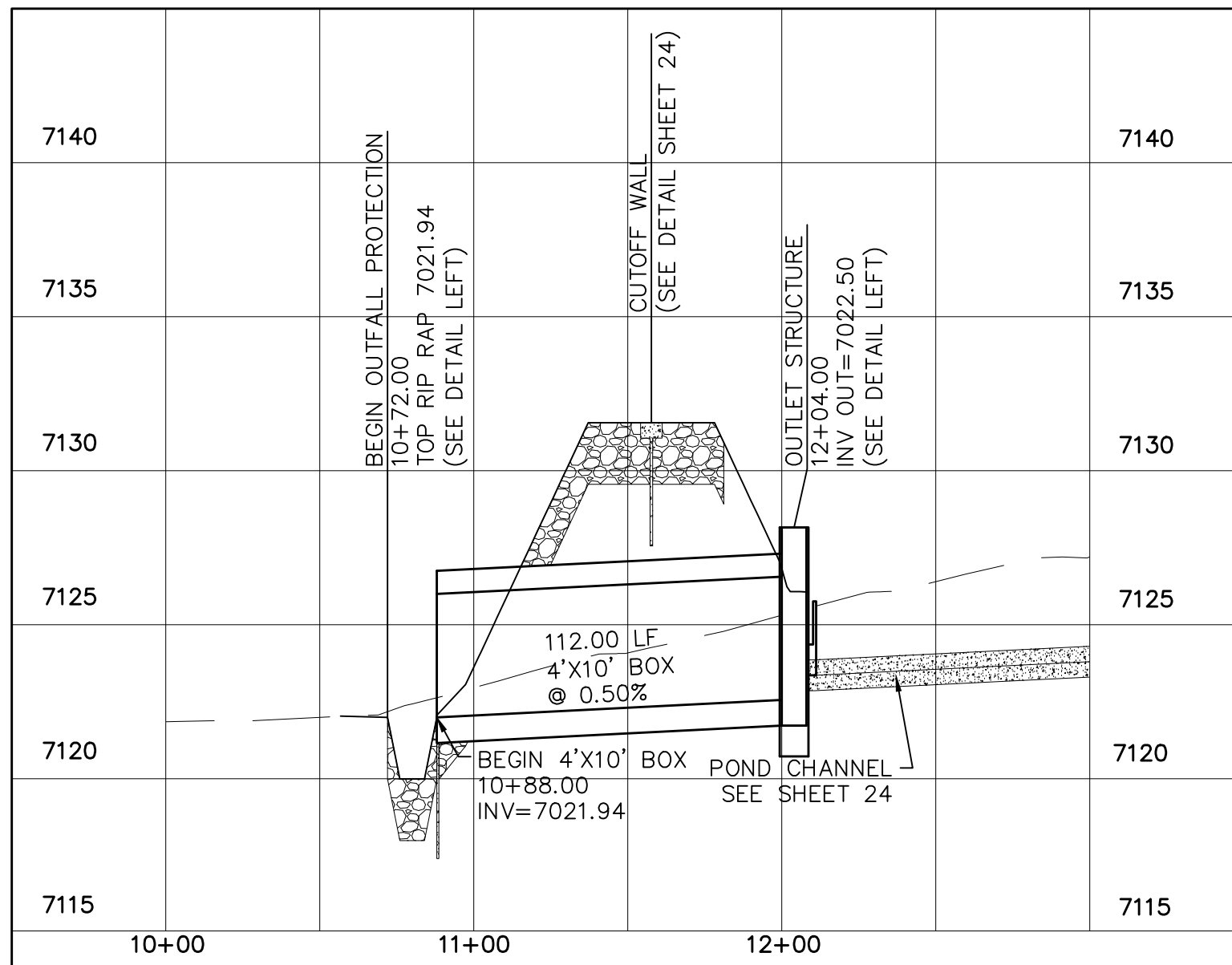
POND OUTFALL



DETAIL 1.6  
GRATE  
NTS



DETAIL 1.5  
OUTLET STRUCTURE  
WATER QUALITY PIPE  
NTS



Scale	Drawn by	Log	Checked by	TAK	Date	Revisions	Init.	Appr.	Date
AS SHOWN					SEPT 2019				
25 of 30									

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

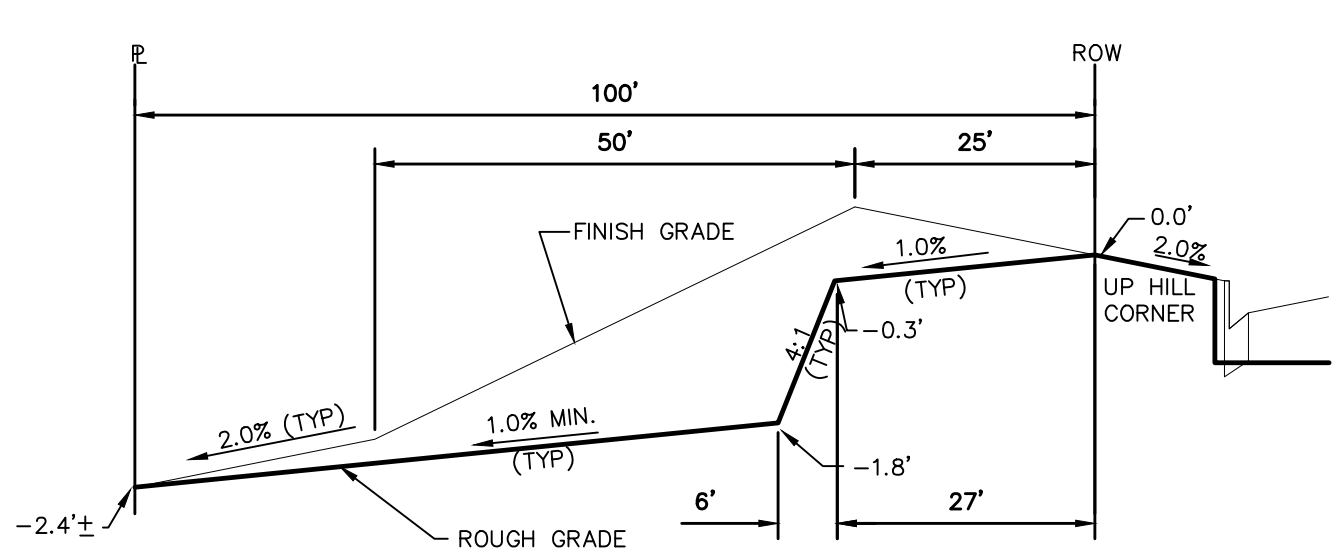
TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE 719.495.7444  
FAX 719.495.2457

MERIDIAN RANCH

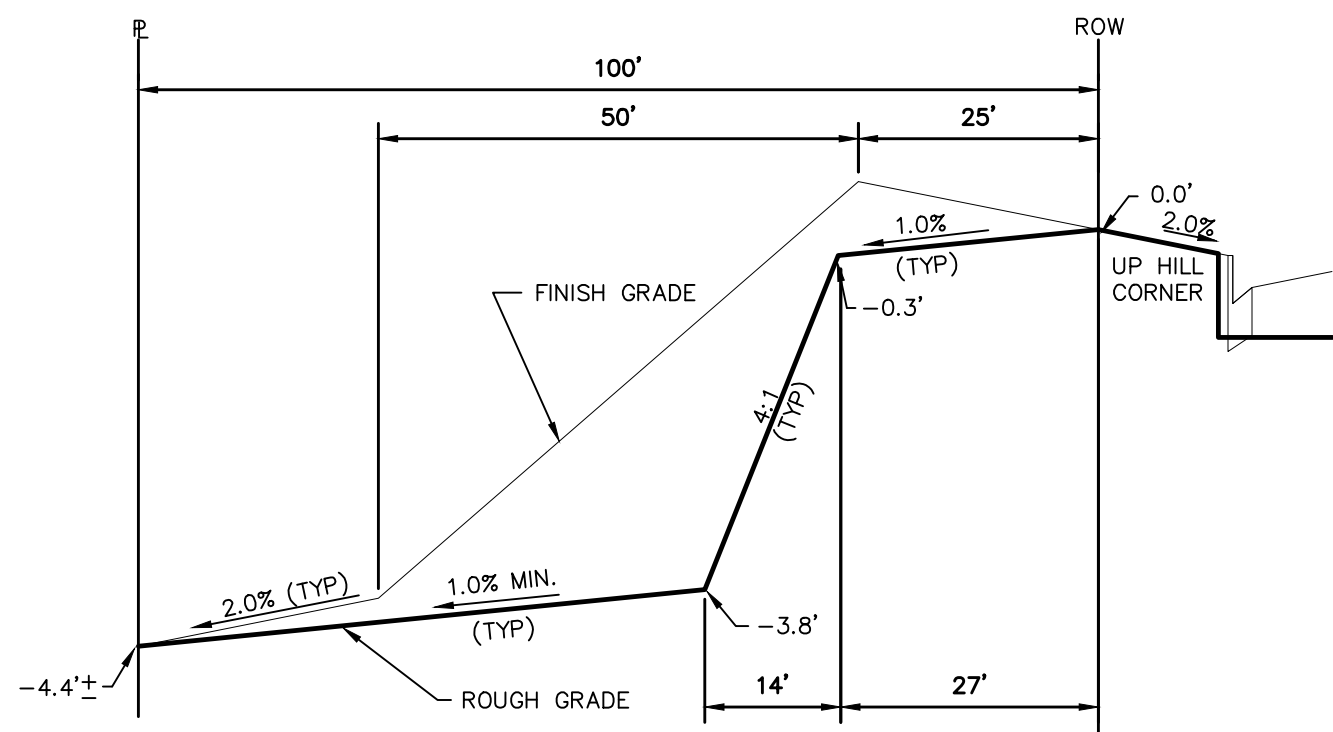




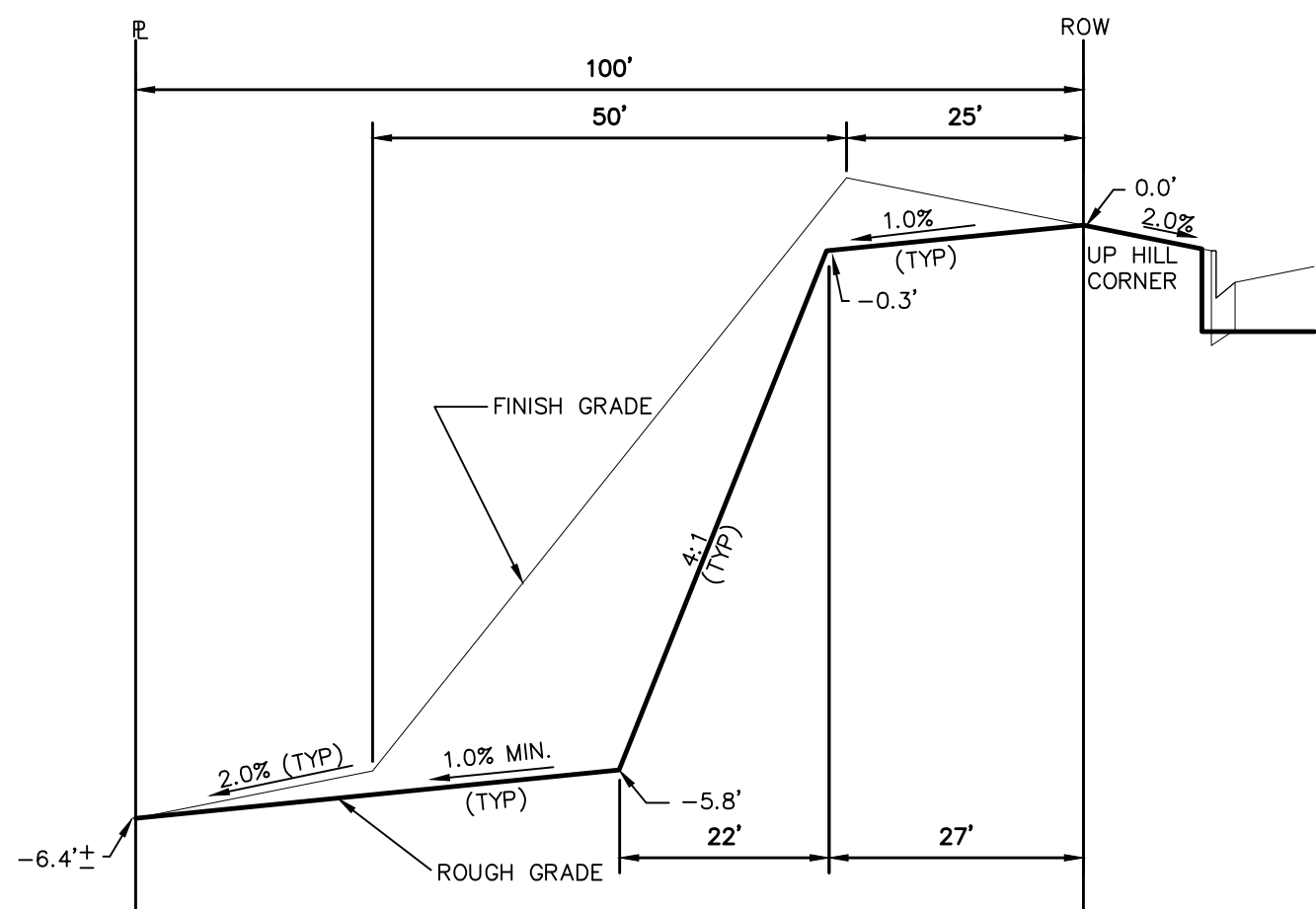




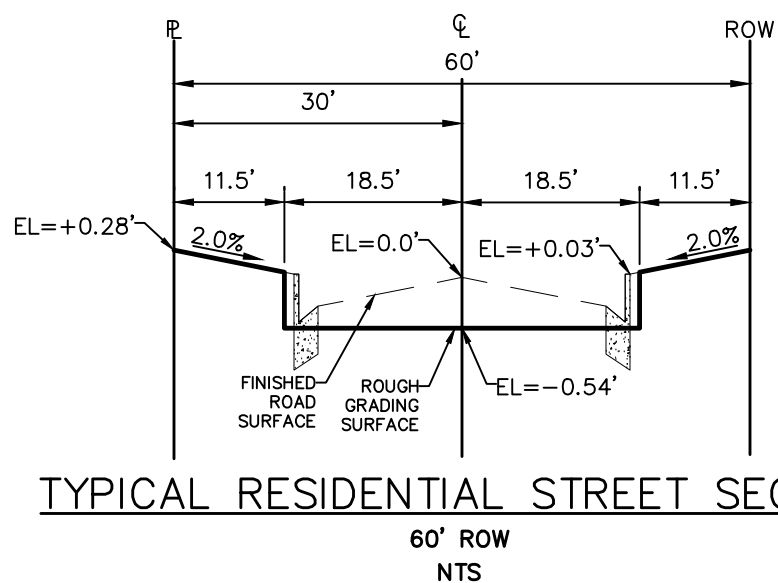
TYPICAL LOT "G2" TEMPLATES  
NTS



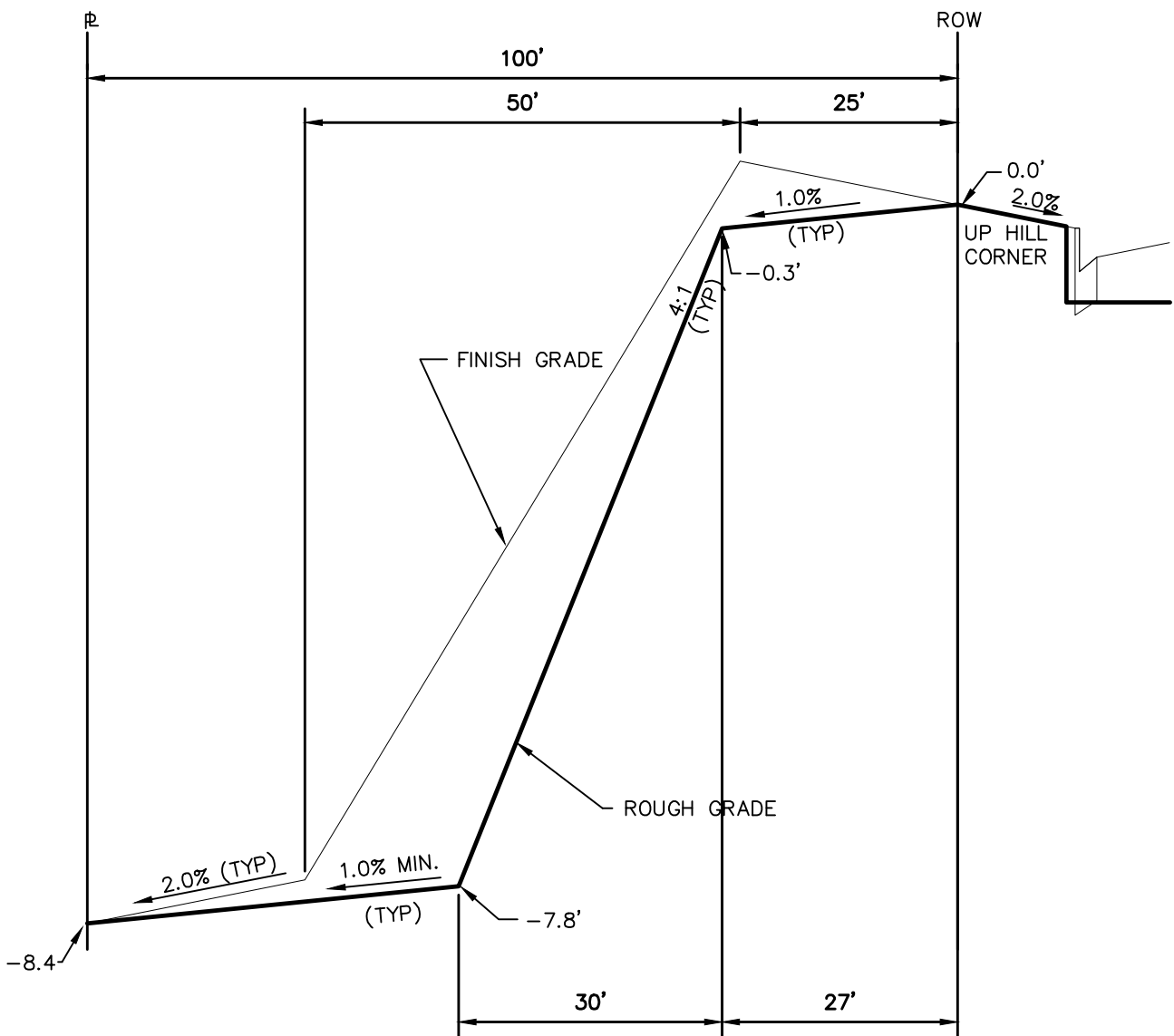
TYPICAL LOT "G4" TEMPLATES  
NTS



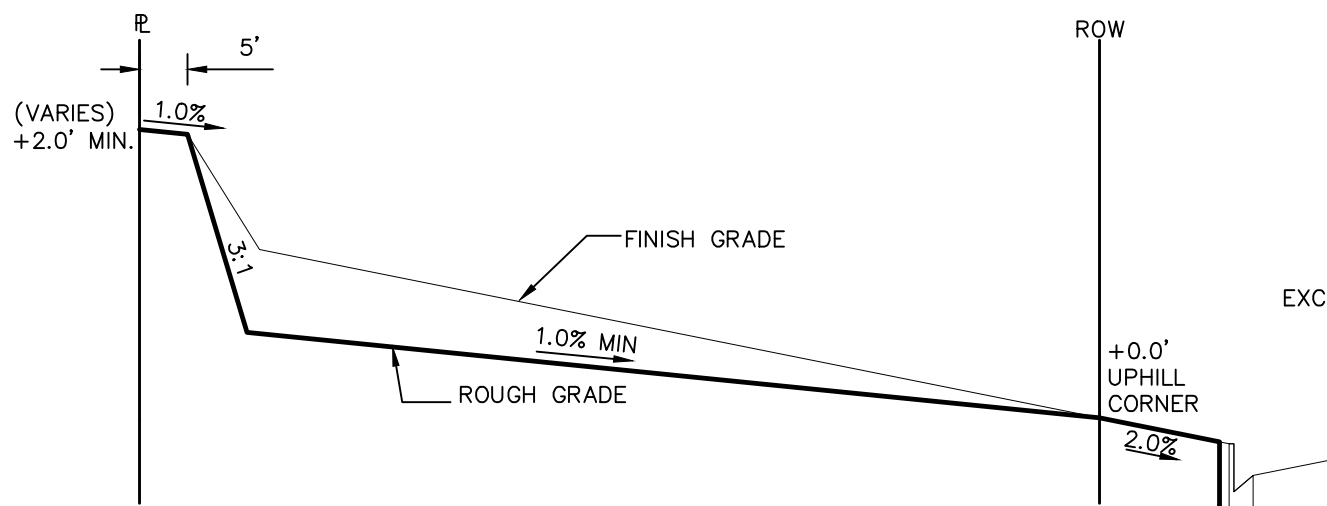
TYPICAL LOT "G6" TEMPLATES  
NTS



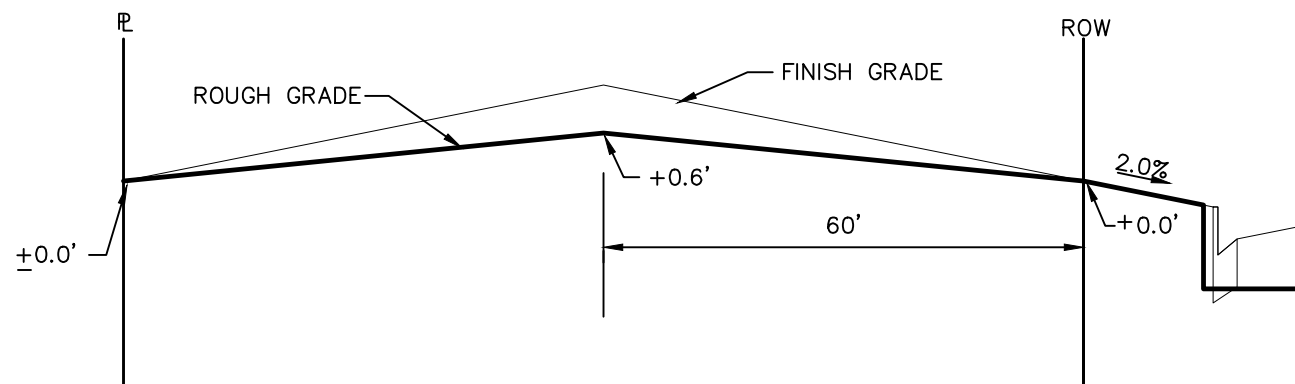
TYPICAL RESIDENTIAL STREET SECTION  
60' ROW  
NTS



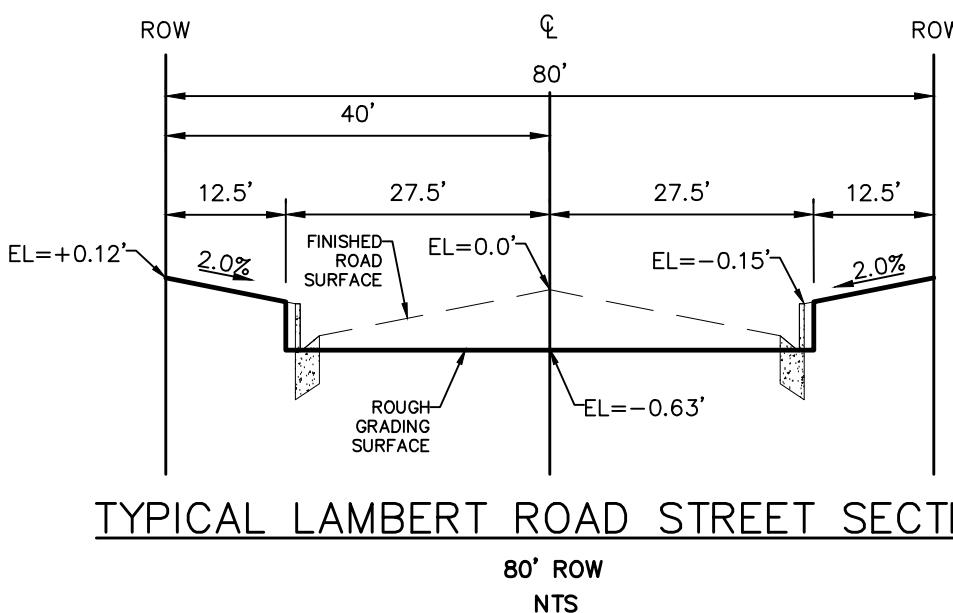
TYPICAL LOT "W8" TEMPLATES  
NTS



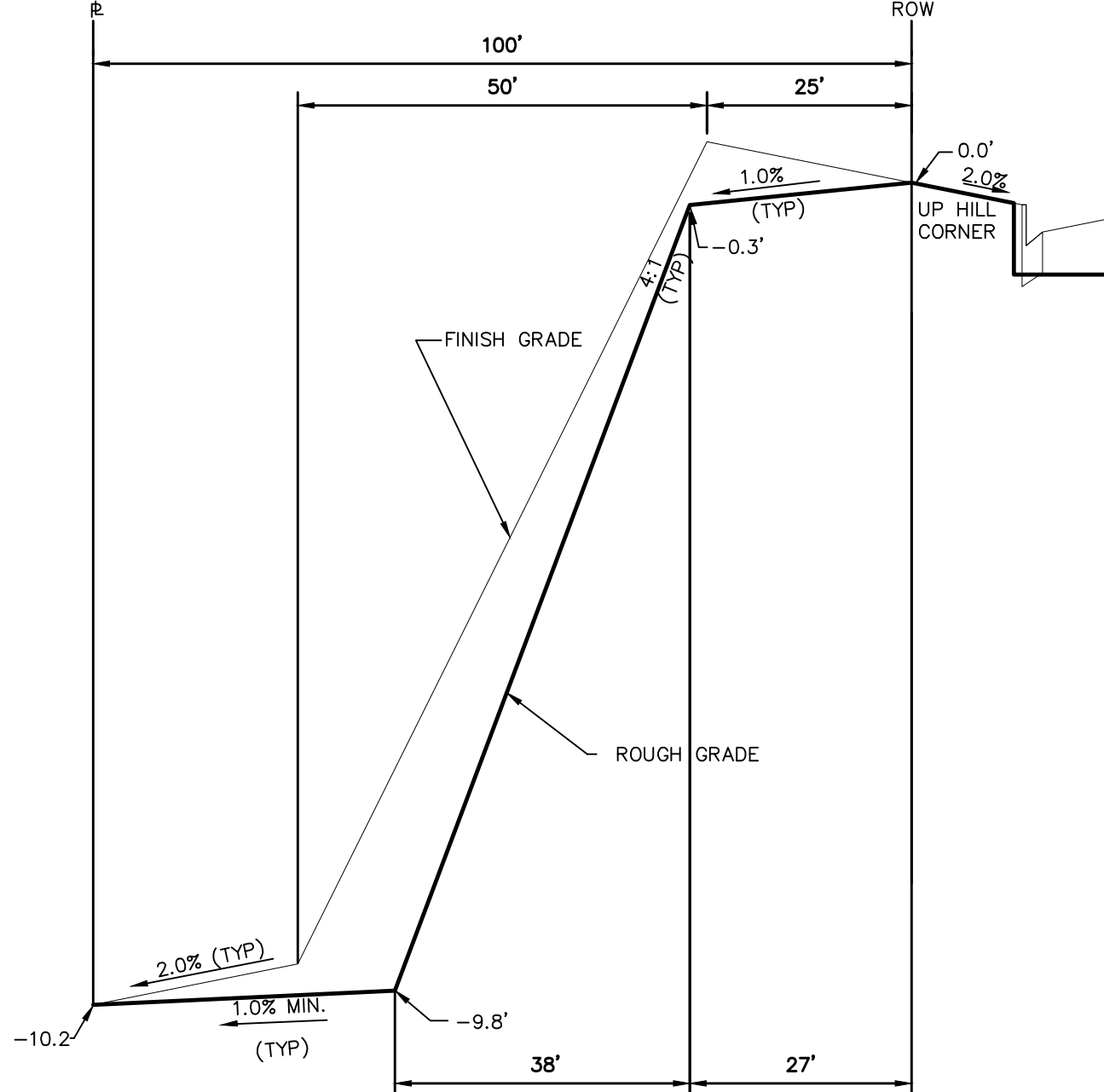
TYPICAL LOT "A" TEMPLATES  
NTS



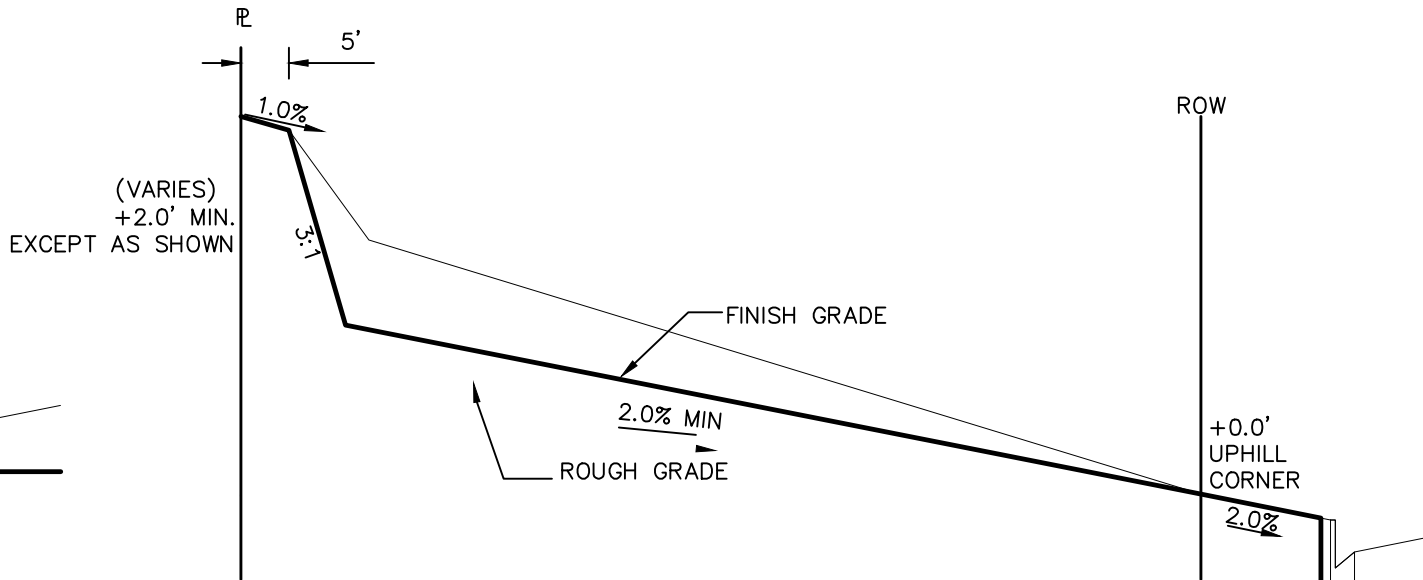
TYPICAL LOT "B" TEMPLATES  
NTS



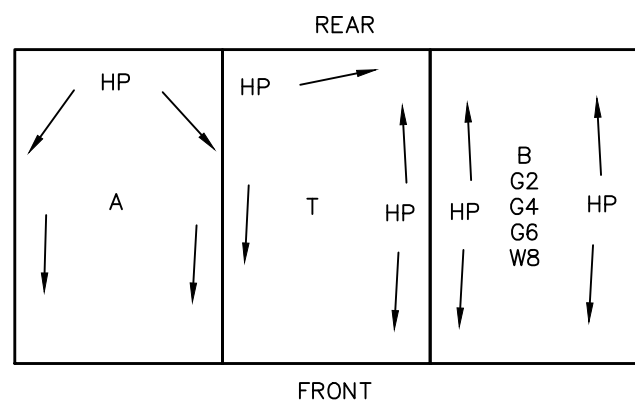
TYPICAL LAMBERT ROAD STREET SECTION  
80' ROW  
NTS



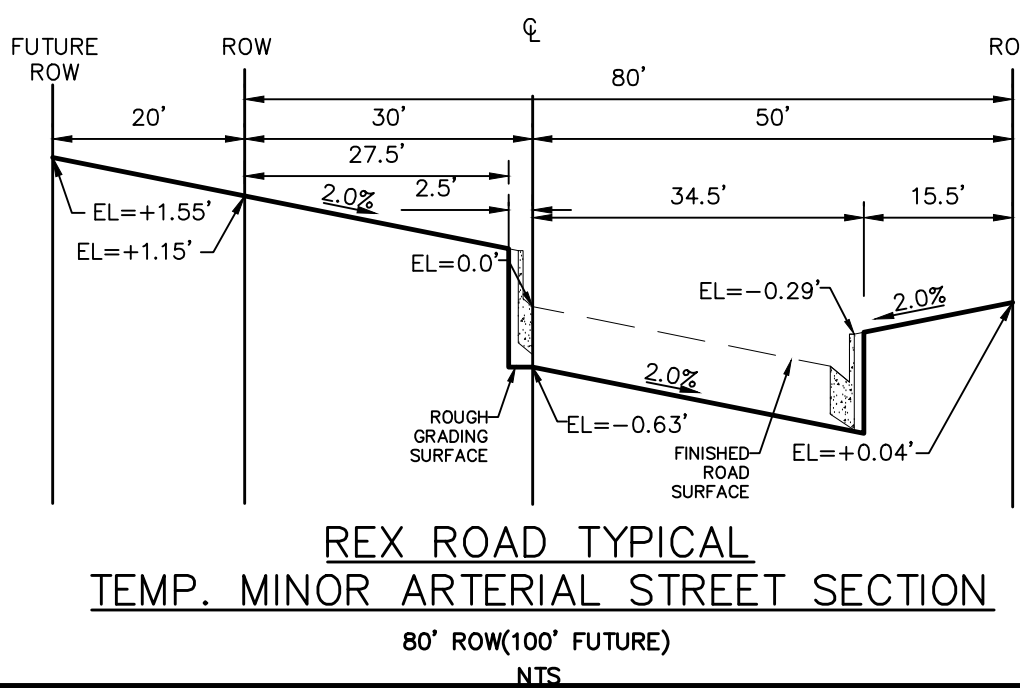
TYPICAL LOT "W10" TEMPLATES  
NTS



TYPICAL LOT "A\*" TEMPLATES  
NTS



TYPICAL DRAINAGE PATTERN  
NTS



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

#### STEPS FOR CONSTRUCTION

THE ANTICIPATED START FOR THIS PROJECT IS OCTOBER 2019 WITH AN ANTICIPATED COMPLETION DATE OF JUNE 2019. 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, FILTREX OR APPROVED EQUAL WILL BE PLACED AT ALL ENTRANCES AND EXITS OF DRAINAGE WAYS. STRAW BALES, FILTREX 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 FILTREX 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

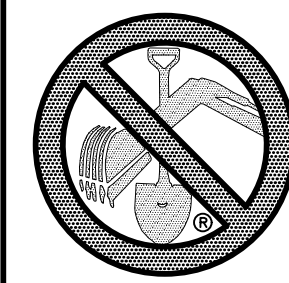
ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING OR BY HYDROMULCHING.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



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)

Scale	Drawn by	Loc	Checked by	TAK	Date	Revisions	Appr.	Init.	Date
AS SHOWN					SEPT 2019				
27 of 30									
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									
1 2 3 4 No.									



