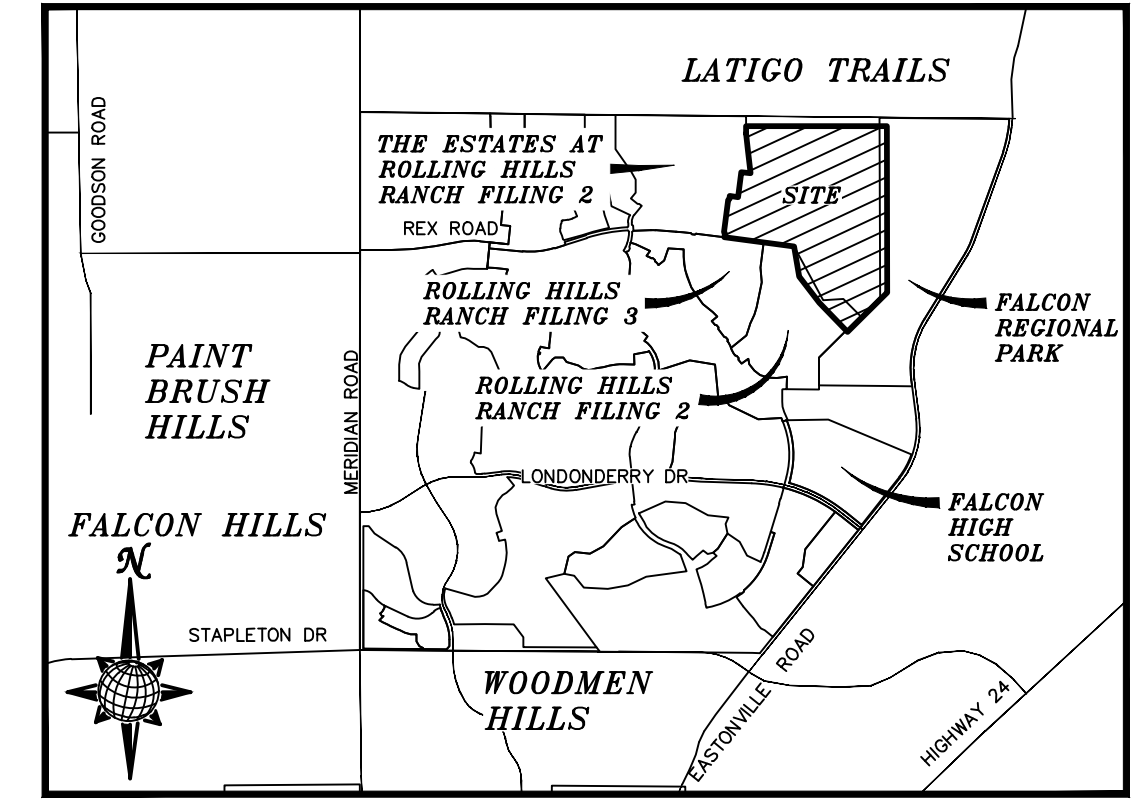


# PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH

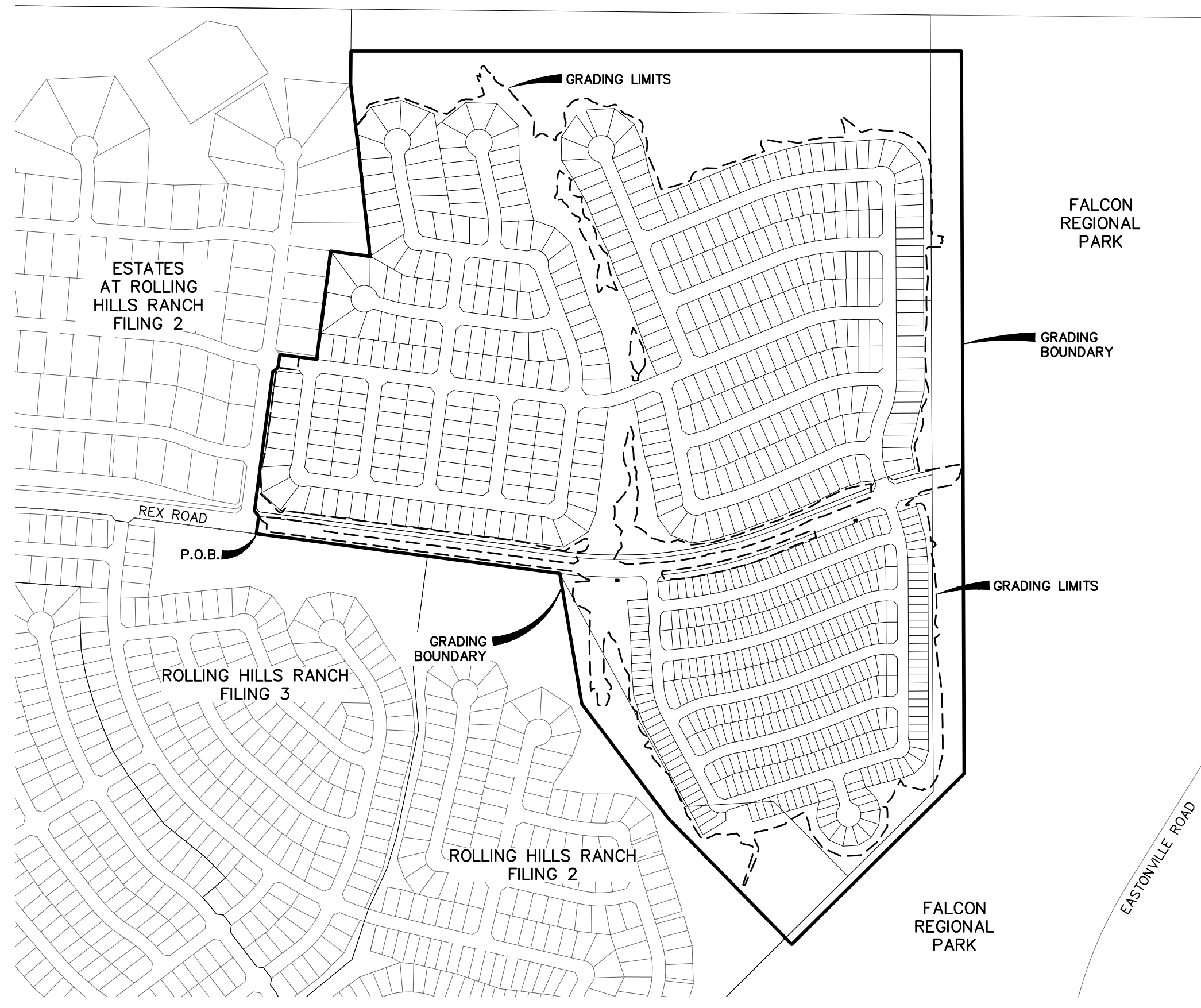
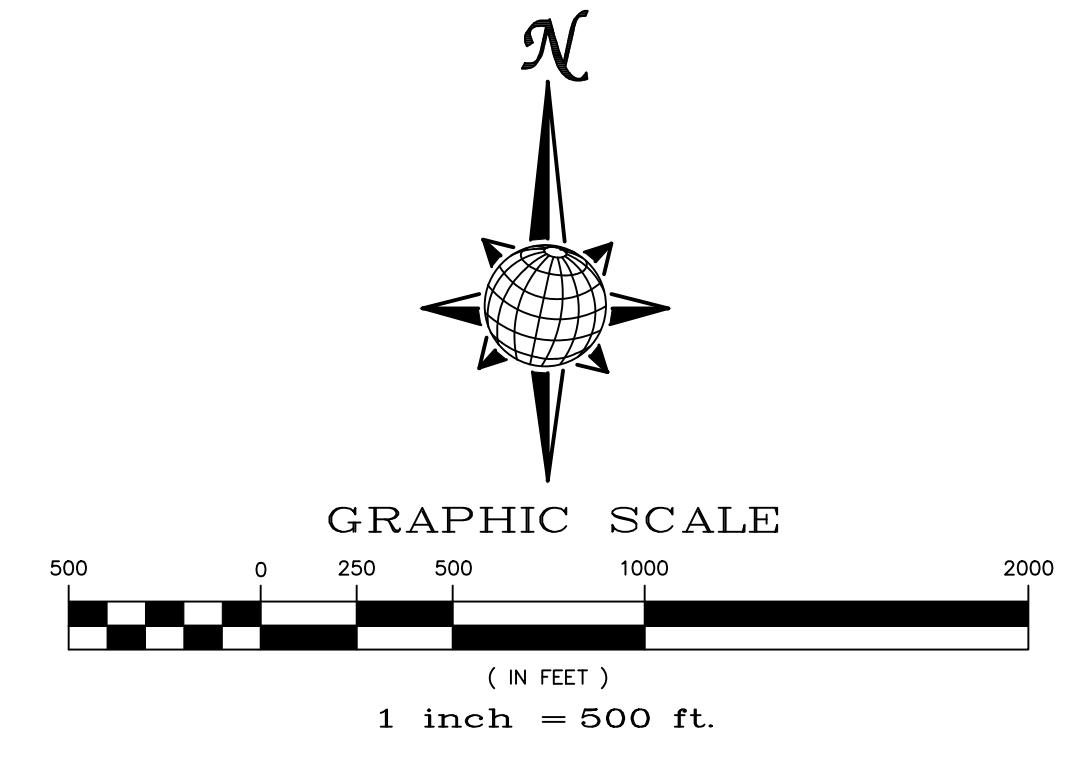
PREPARED FOR GTL, INC. DBA GTL DEVELOPMENT, INC.

A PARCEL OF LAND LOCATED IN A PORTION OF SECTIONS 20 AND 21, 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
3-14	LAYOUT SHEETS
15	CUT-FILL SHEETS
16-23	DETAIL SHEETS



**UTILITY CONTACTS:**

WATER - MERIDIAN SERVICE METROPOLITAN DISTRICT  
 POC: BRADEN MCCORRY (719)-495-6567

SANITARY SEWER - MERIDIAN SERVICE METROPOLITAN DISTRICT  
 POC: BRADEN MCCORRY (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 AND EL PASO COUNTY BEING THE OWNERS OF PROPERTY UNDERLYING THE FOLLOWING DESCRIBED TRACT OF LAND:

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

BEGINNING AT A POINT ON THE SOUTHEASTERN MOST CORNER OF THE ESTATES AT ROLLING HILLS RANCH FILING NO. 2, RECORDED WITH RECEPTION NO. 222714944 IN THE RECORDS OF EL PASO COUNTY:

THE FOLLOWING ELEVEN (11) COURSES ARE ON SAID BOUNDARY OF THE ESTATES AT ROLLING HILLS RANCH FILING NO. 2.

1. THENCE N07°26'02"W A DISTANCE OF 80.00 FEET;
2. THENCE N37°33'58"W A DISTANCE OF 31.11 FEET;
3. THENCE N07°26'02"W A DISTANCE OF 636.00 FEET;
4. THENCE N52°26'02"E A DISTANCE OF 31.11 FEET;
5. THENCE N07°26'02"W A DISTANCE OF 60.00 FEET;
6. THENCE S82°33'58"E A DISTANCE OF 168.00 FEET;
7. THENCE N07°26'02"W A DISTANCE OF 495.00 FEET;
8. THENCE S82°33'58"E A DISTANCE OF 180.00 FEET;
9. THENCE N06°14'24"W A DISTANCE OF 495.03 FEET;
10. THENCE N06°47'53"W A DISTANCE OF 290.00 FEET;
11. THENCE N00°34'17"W A DISTANCE OF 149.26 FEET;
12. THENCE N00°00'00"E A DISTANCE OF 2,767.24 FEET;
13. THENCE S00°13'03"E A DISTANCE OF 3,275.30 FEET;
14. THENCE S45°14'56"W A DISTANCE OF 1,100.00 FEET;
15. THENCE N44°24'40"W A DISTANCE OF 800.00 FEET;
16. THENCE N37°01'57"W A DISTANCE OF 650.00 FEET;
17. THENCE N09°54'46"W A DISTANCE OF 600.00 FEET;
18. THENCE N82°33'58"W A DISTANCE OF 1,387.37 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL OF LAND CONTAINS 206.887 ACRES, MORE OR LESS.

**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)

**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 ANGELS 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.

*[Signature]*  
 RAUL GUZMAN, VICE PRESIDENT  
 GTL DEVELOPMENT, INC.

5/12/2022  
 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.

*[Signature]*  
 RAUL GUZMAN, VICE PRESIDENT  
 MERIDIAN RANCH INVESTMENTS, INC.

5/12/2022  
 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.

*[Signature]*  
 THOMAS A. KERBY, P.E. #31429

**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.

**APPROVED**  
 Engineering Department  
 06/15/2022 1:59:03 PM  
*[Signature]*  
 DATE

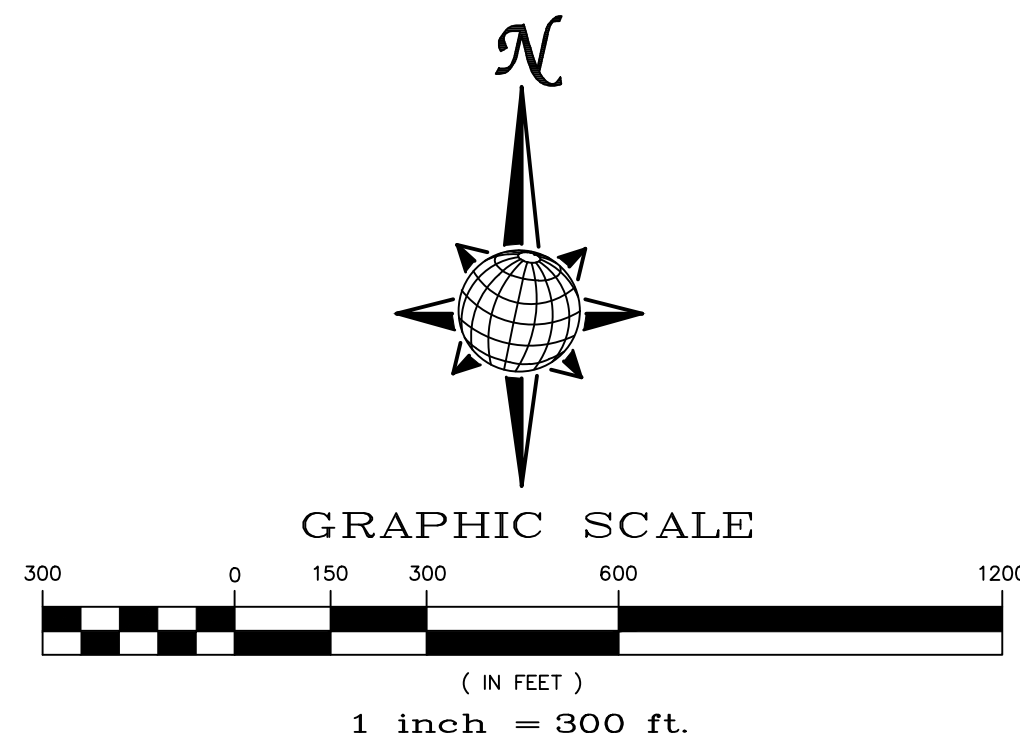
COUNTY ENGINEER / ECM ADMINISTRATOR EPC Planning & Community Development Department

					Date
					Appr.
					Date
					Revisions
1	2	3	4	No.	
TECH CONTRACTORS					
11886 STAPLETON DRIVE					
FALCON, CO 80831					
TELEPHONE: 719.495.7444					
FAX: 719.495.2457					
MERIDIAN RANCH					
PREDEVELOPMENT GRADING					
ROLLING HILLS RANCH NORTH					
ROUGH GRADING AND EROSION					
CONTROL PLAN					
COVER SHEET					
Drawn by	LOG	Checked by	TAK	Date	MAY 2022
Scale	AS SHOWN	1	of	23	

**EL PASO COUNTY STANDARD NOTES:**

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS, ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORTS FOR THIS SITE ARE ROLLING HILLS RANCH NORTH FILING 1 & 2 DATED APRIL 20, 2022 AND ROLLING HILLS RANCH DATED JULY 15, 2019 BOTH HAVE 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:

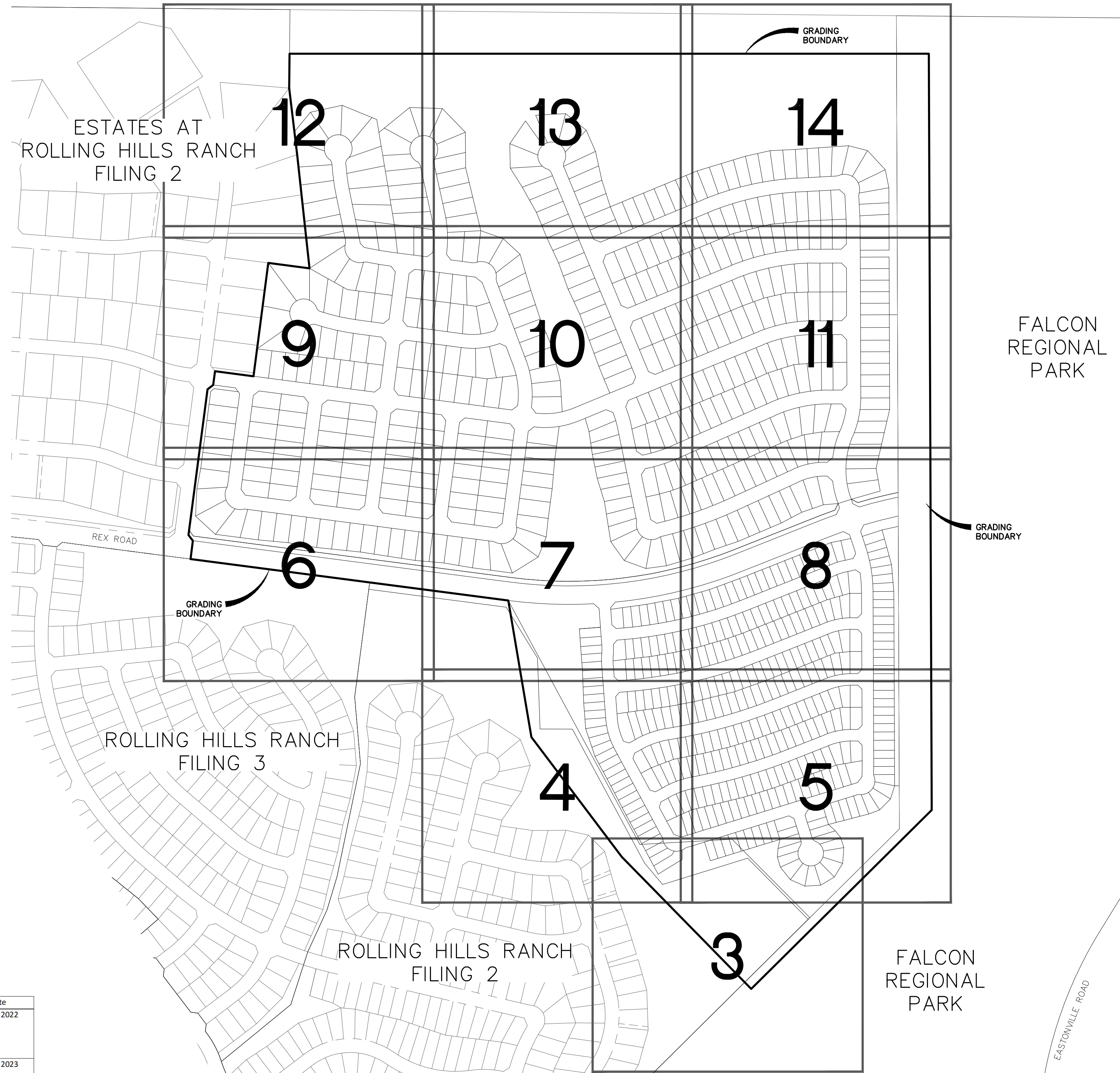
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
WATER QUALITY CONTROL DIVISION  
WOOD - PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT



Stage	Description	Control Measures	Begin Date	End Date
Stage 1	Overlot Grading	Silt fence & VTC Temporary Sed. Basins Swale Checks as needed Surface Roughening	June 2022	August 2022
Stage 2	Underground utilities Surface Improvements	Perimeter Control Inlet Protection	August 2022	August 2023
Stage 3	Home Construction	Inlet Protection Individual Lot Perimeter Control	November 2022 2025	November 2025
Final Stabilization	Permit Close	Final Stabilization Permanent Seeding Permanent Measures	November 2025	

**EARTHWORK QUANTITIES**

NET YARDS	BALANCE	
TOTAL STRIPPINGS	157.9 AC.	84,915 CY
	<u>CUT</u>	<u>FILL</u>
NET YARDS	320,730 CY	320,730 CY
20% COMPACTION FACTOR		



- NOTE:**
- EXISTING VEGETATION ON THE PROJECT SITE AND THE IN SURROUNDING AREAS CONSISTS OF A MIXTURE OF NATIVE GRASSES AND WEEDS WITH COVERAGE APPROXIMATING 50% DENSITY UNLESS OTHERWISE NOTED. SOME AREAS HAVE NEGLIGIBLE VEGETATIVE GROWTH AT THIS TIME AS THE SITE WAS PREVIOUSLY GRADED AND RE-SEEDDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDDED WITH THE APPROVED COUNTY SEED MIX.
  - MATERIAL STORAGE, TOPSOIL STOCKPILES(EDFCD: MM-2), STAGING(UDFCD: SM-6), CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY.
  - THERE IS NO CONCRETE BATCH PLANT ASSOCIATED WITH THIS PROJECT.
  - NO SLOPES GREATER THAN 3:1 ARE EXPECTED ON THIS SITE. SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.
  - MIRIFI FABRIC TO BE PLACED BELOW ALL RIP-RAP.

**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)

No.	1	2	3	4
Revisions				
Date				
Appr.				

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

**MERIDIAN RANCH**

PREDEVELOPMENT GRADING  
ROLLING HILLS RANCH NORTH  
ROUGH GRADING AND EROSION  
CONTROL PLAN  
GRADING INDEX SHEET

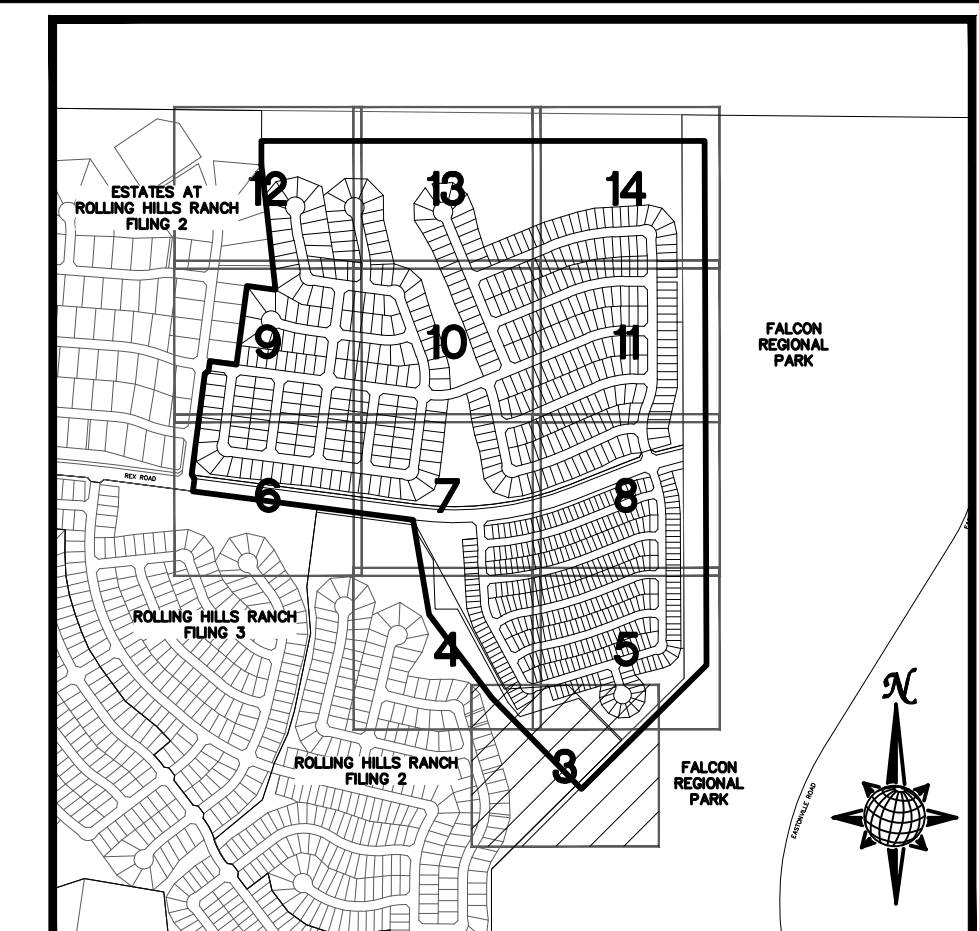
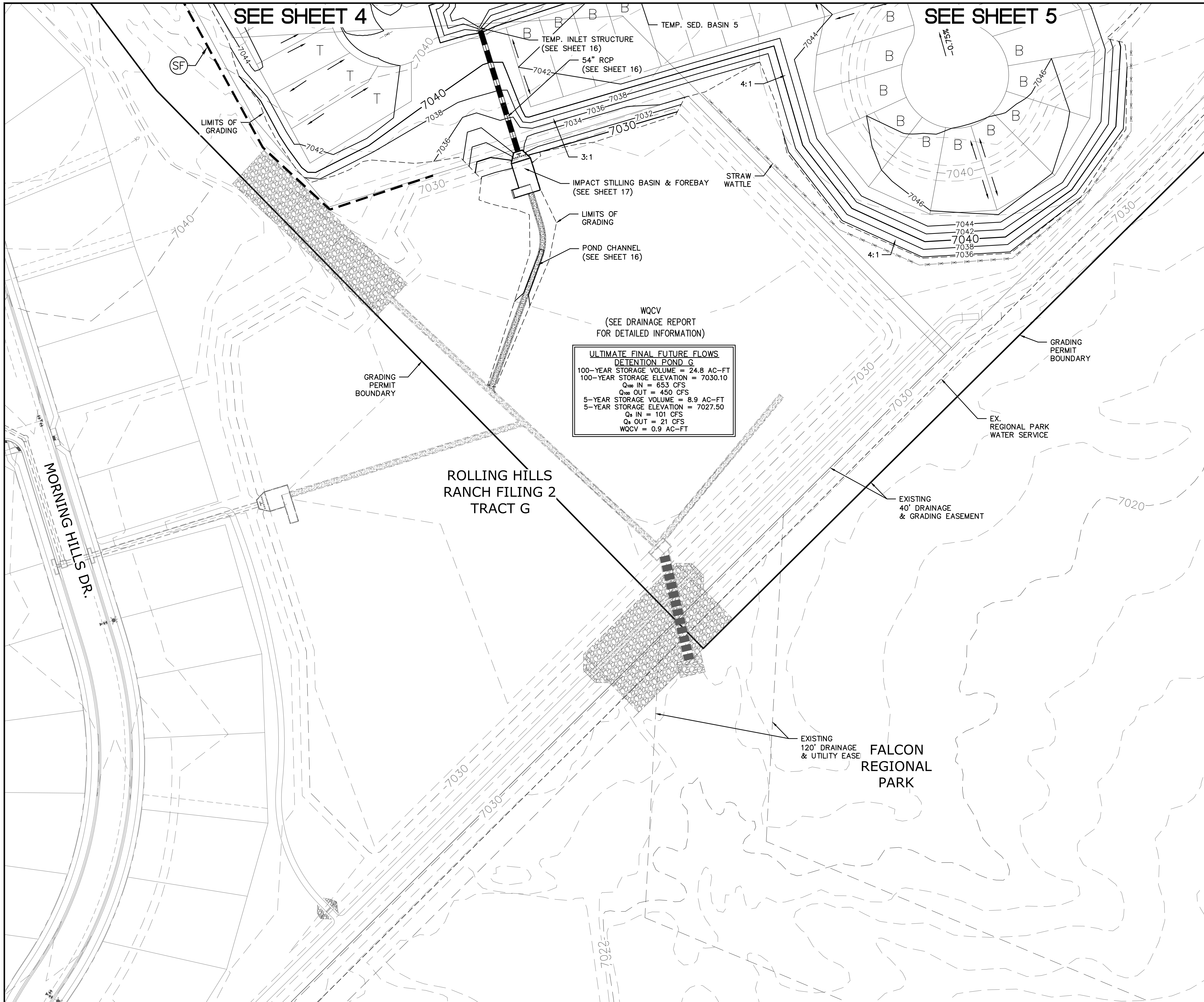
Scale AS SHOWN

2 of 23

Drawn by LOG  
Checked by TJK  
Date MAY 2022

COLORADO PROFESSIONAL ENGINEER  
31429  
2.2.20

PCD PROJECT NO. EPG222

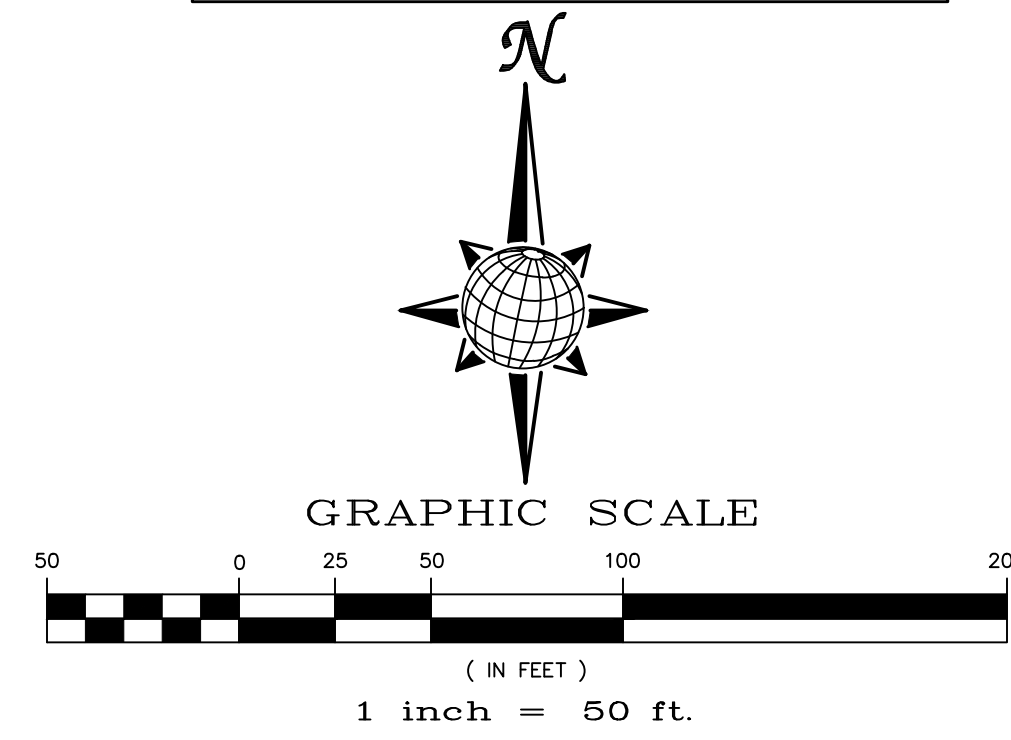


LEGEND

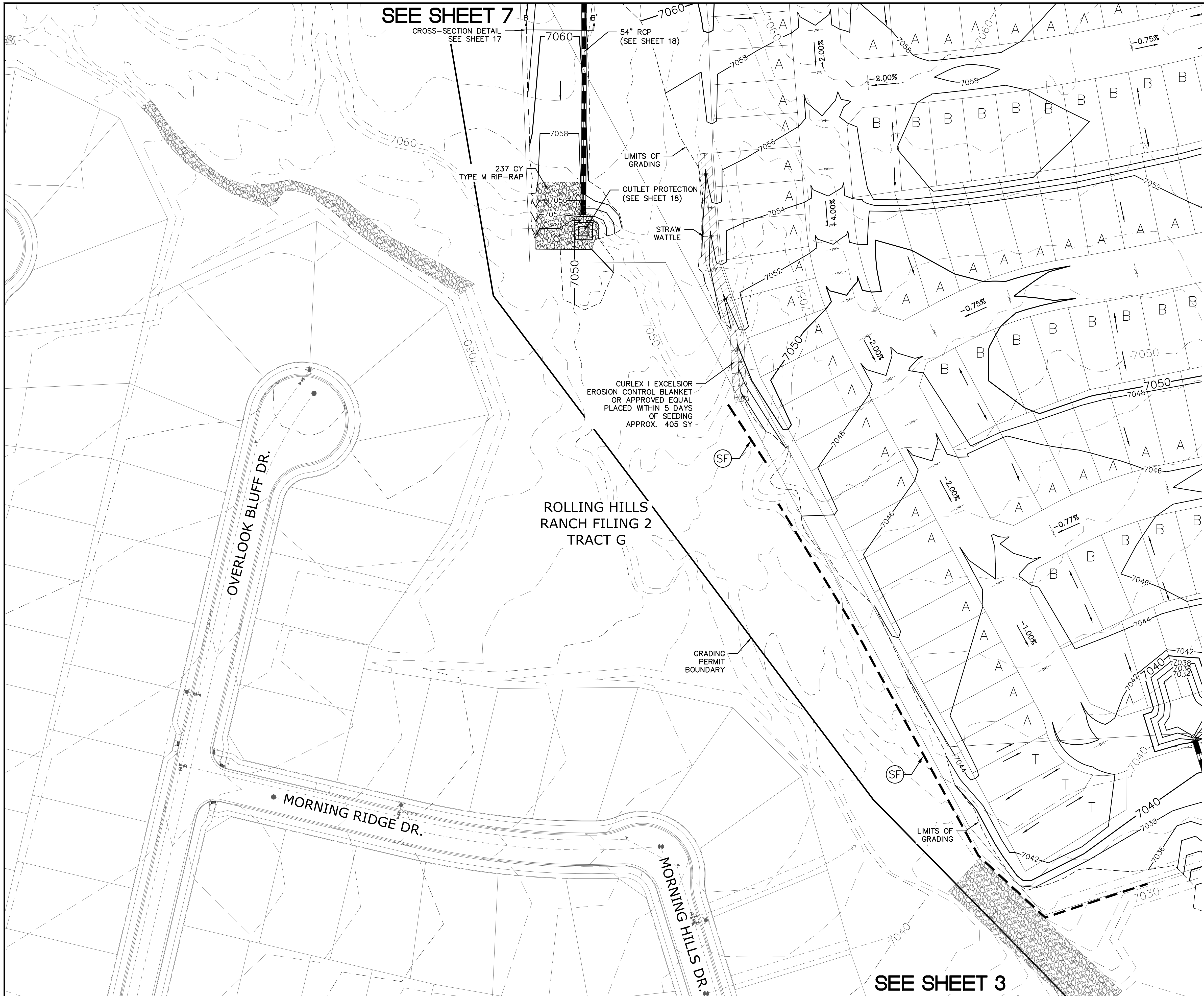
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES PER DETAIL SHEET 23
		EROSION WATTLES PER DETAIL SHEET 23
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 23
LIMITS OF GRADING		
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	A	LOT GRADE TYPE

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 22.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1) ESTATES AT ROLLING HILLS RANCH FILING 2  
2) ROLLING HILLS RANCH FILING 3  
3) ROLLING HILLS RANCH FILING 2  
4) ROLLING HILLS RANCH FILING 1  
5) ROUGH GRADING FOR ROLLING HILLS RANCH  
6) EASTONVILLE RAW WATER PIPELINE  
7) 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				
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET				Drawn by LOG Checked by TJK Date MAY 2022
Scale AS SHOWN				
3 of 23				
TWO WORKING DAYS <b>BEFORE YOU DIG CALL 811</b> OR UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987 (SEE COVER FOR LIST OF UTILITY CONTACTS)				



**SEE SHEET 7**  
CROSS-SECTION DETAIL  
SEE SHEET 17

237 CY  
TYPE M RIP-RAP

LIMITS OF  
GRADING

OUTLET PROTECTION  
(SEE SHEET 18)

STRAW  
WATTLE

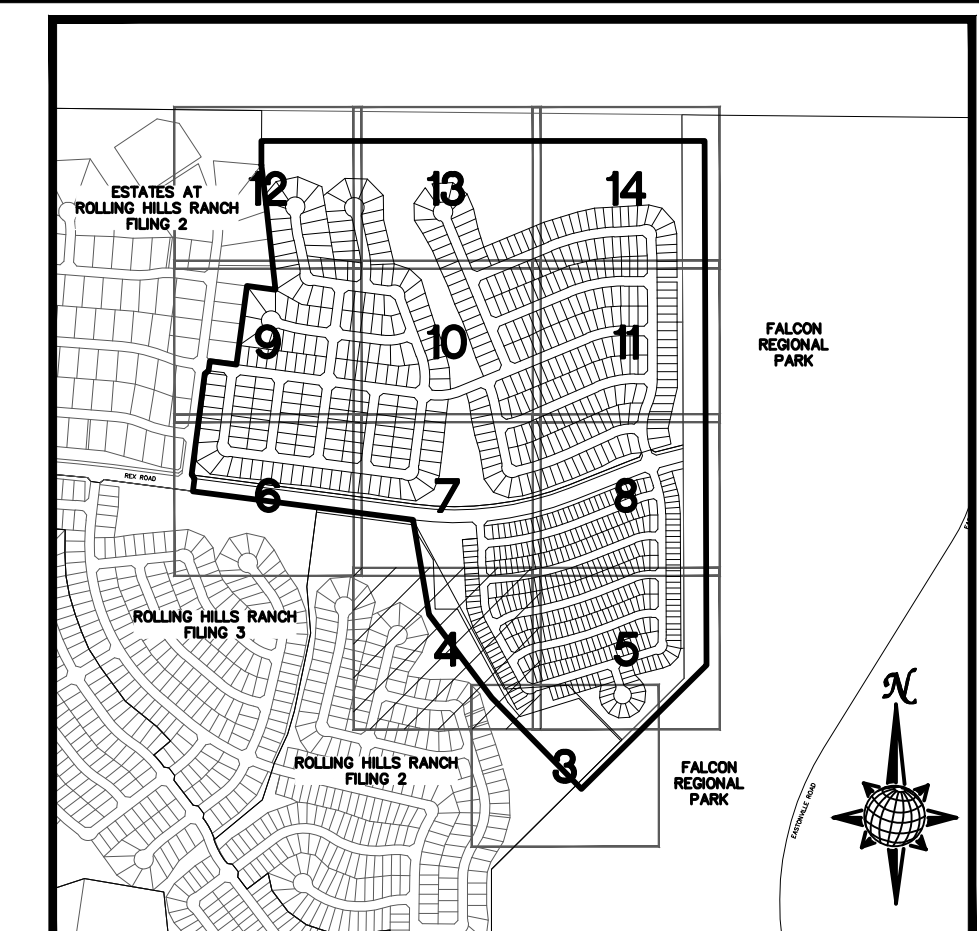
CURLEX I EXCELSIOR  
EROSION CONTROL BLANKET  
OR APPROVED EQUAL  
PLACED WITHIN 5 DAYS  
OF SEEDING  
APPROX. 405 SY

ROLLING HILLS  
RANCH FILING 2  
TRACT G

GRADING  
PERMIT  
BOUNDARY

LIMITS OF  
GRADING

**SEE SHEET 3**



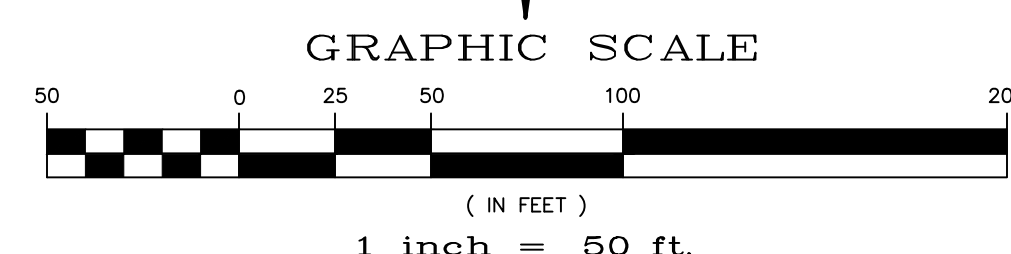
**INDEX MAP**  
N.T.S.

**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES PER DETAIL SHEET 23
		EROSION WATTLES PER DETAIL SHEET 23
		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 23
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

**NOTE:**  
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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
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3) ROLLING HILLS RANCH FILING 2  
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6) EASTONVILLE RAW WATER PIPELINE  
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OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

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

<b>MERIDIAN RANCH</b>	
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET	

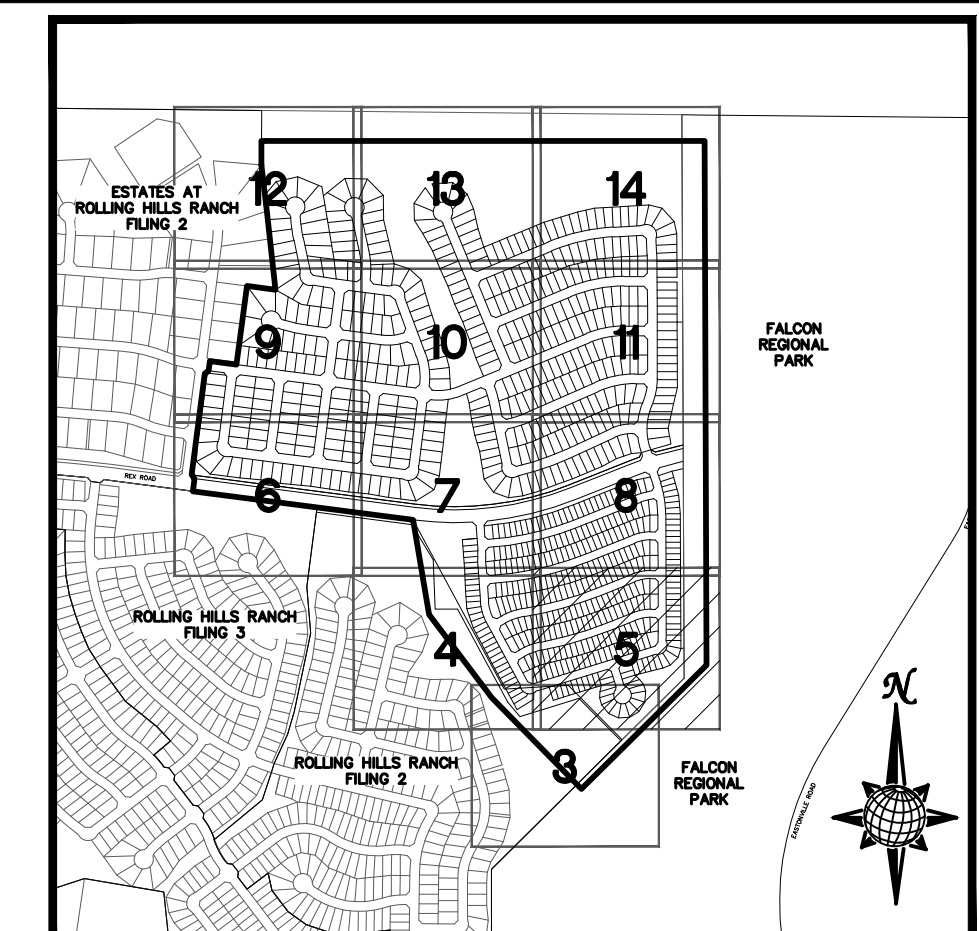
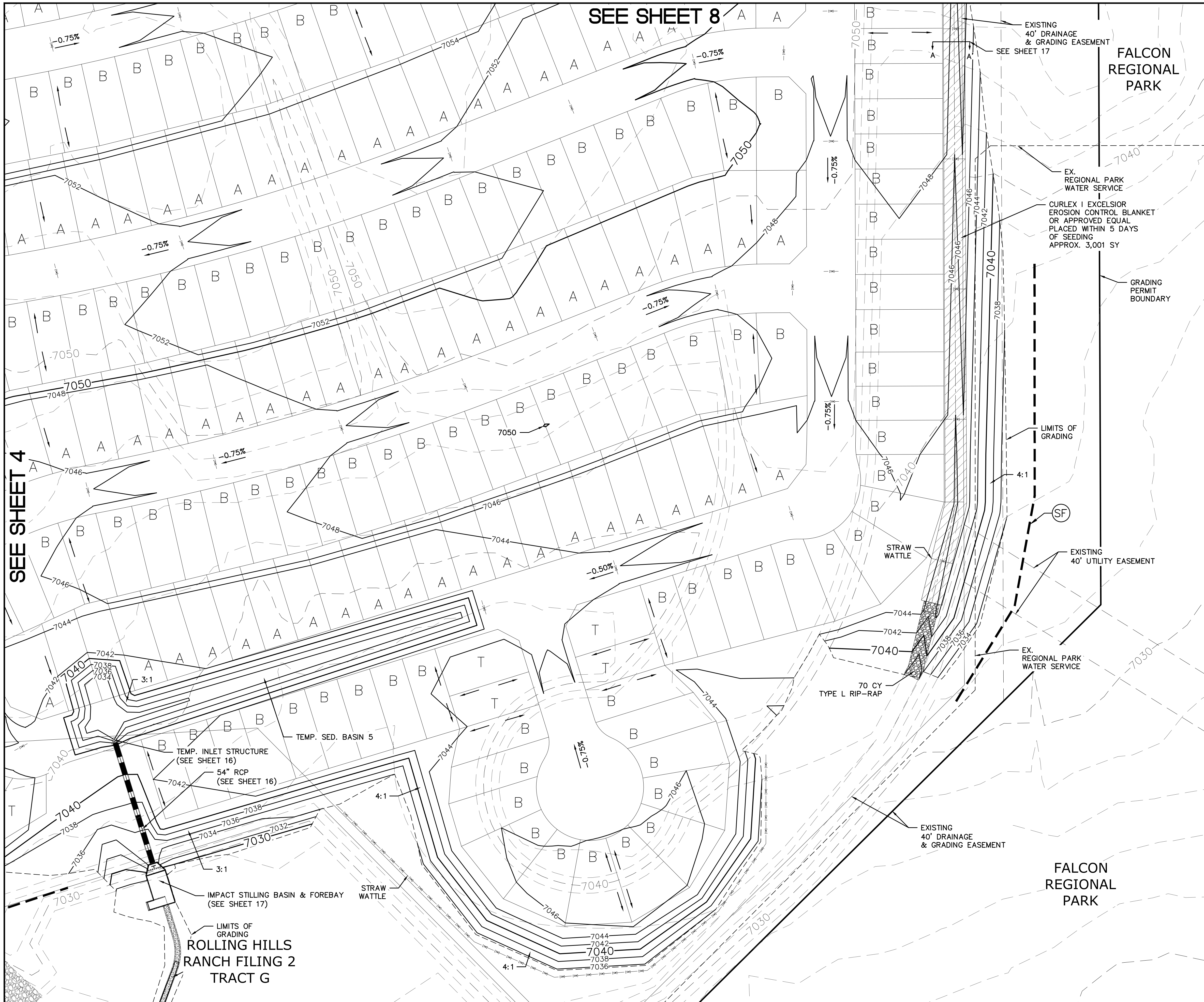
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Checked by	TAK
Date	MAY 2022

Scale	AS SHOWN
4 of 23	

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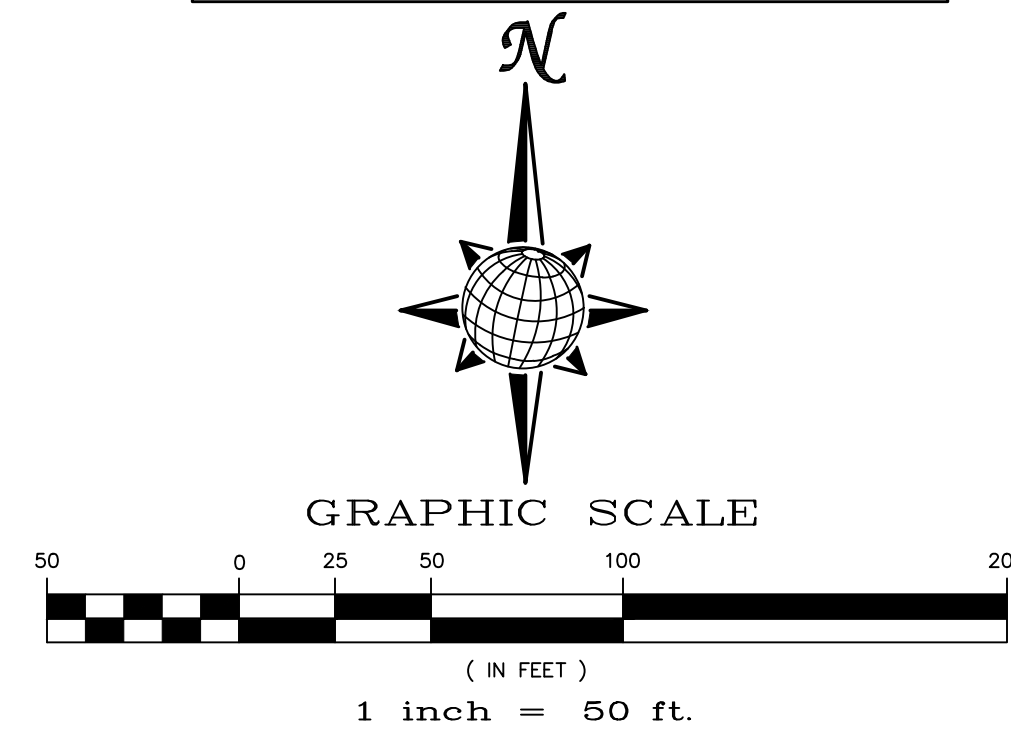
**INDEX MAP**  
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		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

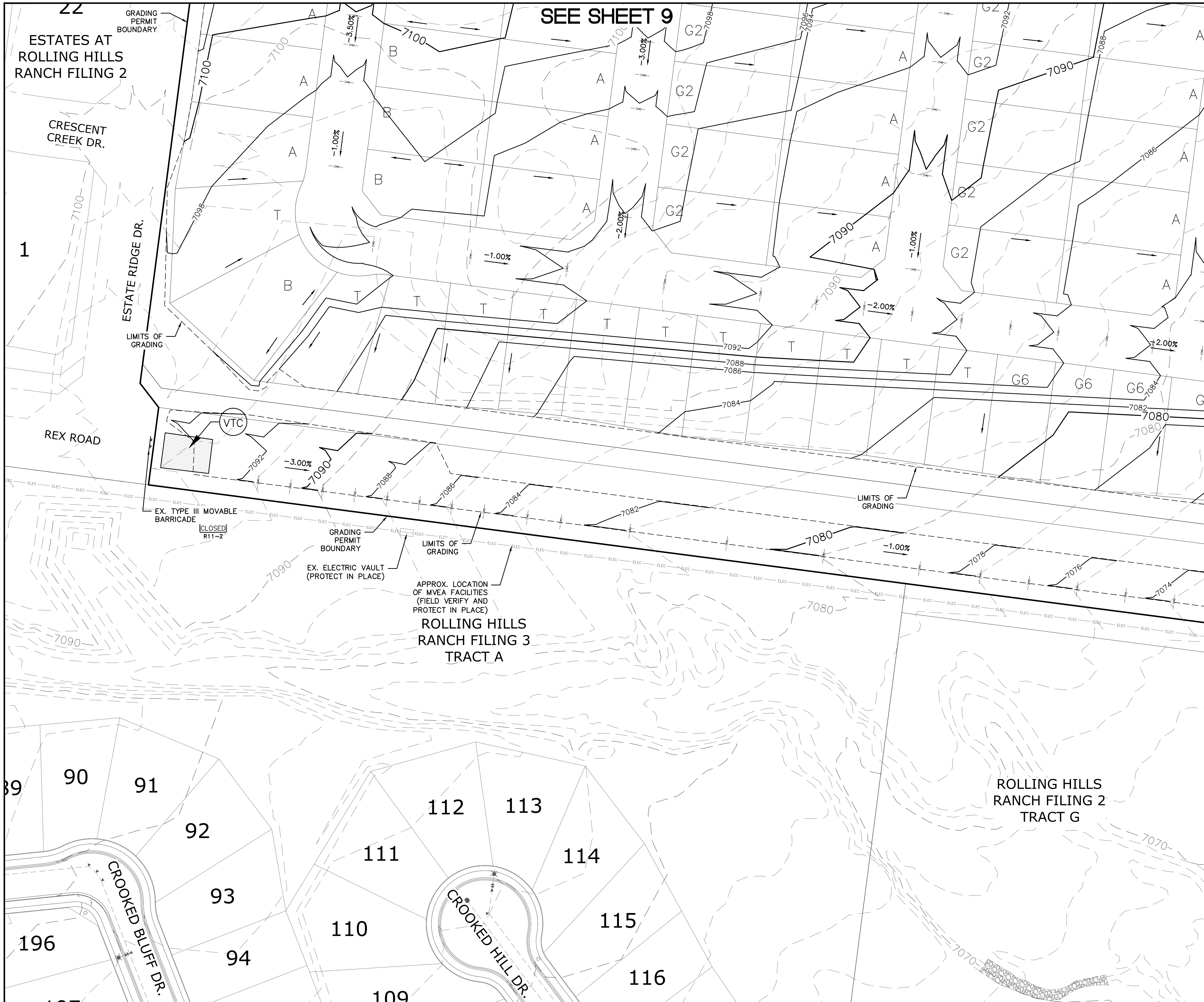
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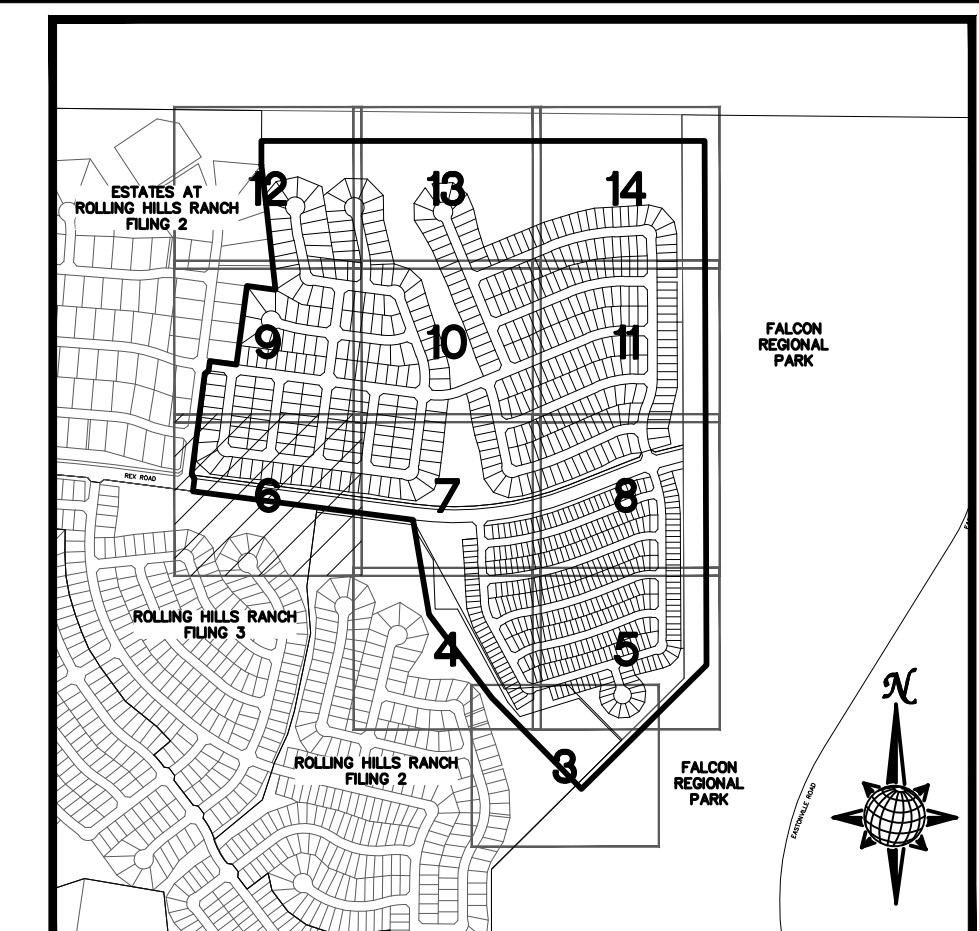
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TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457							
<b>MERIDIAN RANCH</b>							
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET							
Drawn by	LOG	Checked by	TAK	Date	MAY 2022		
Scale	AS SHOWN			5 of 23			



SEE SHEET 9

SEE SHEET 7



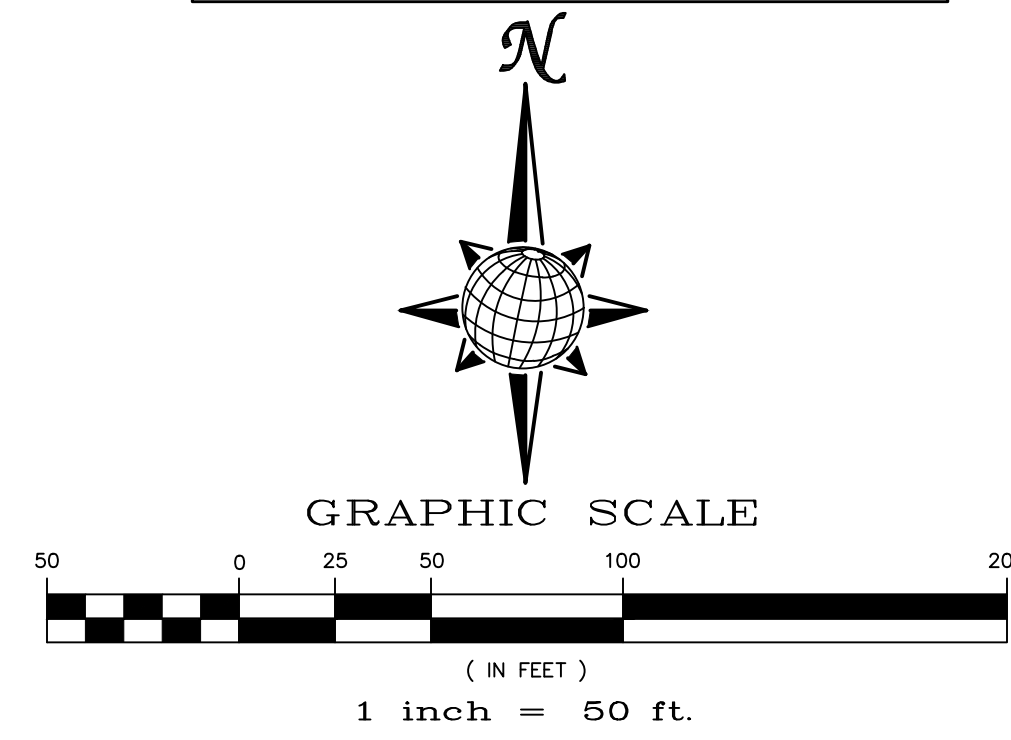
**INDEX MAP**  
N.T.S.

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	IP	INLET PROTECTION PER DETAIL SHEET 23
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		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

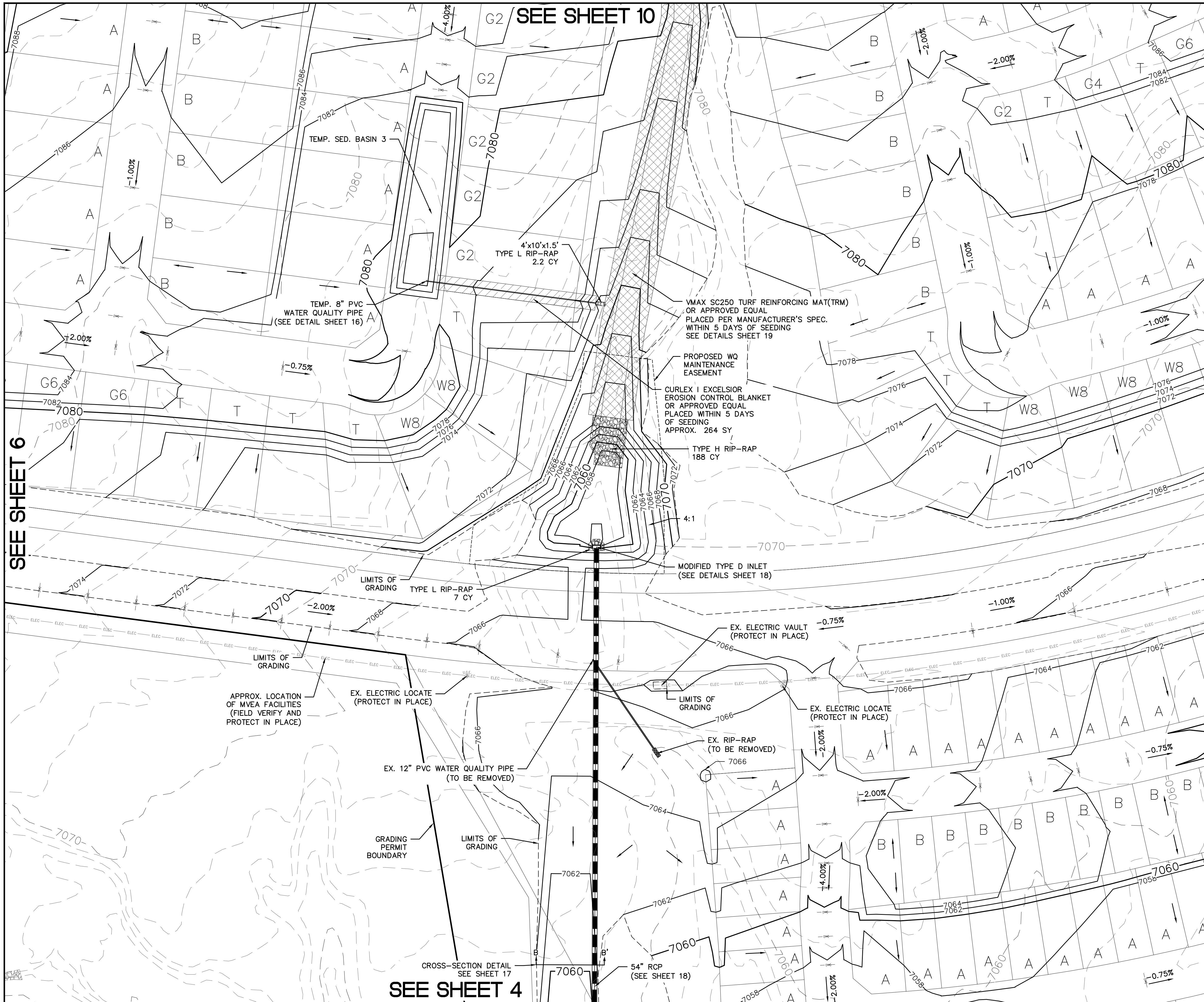
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TWO WORKING DAYS  
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1	2	3	4	No.	Revisions	Date	Init.	Appr.	Date
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>									
<p>PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET</p>									
Drawn by	LOG	Checked by	TAK	Date	MAY 2022				
Scale	AS SHOWN	6	of	23					

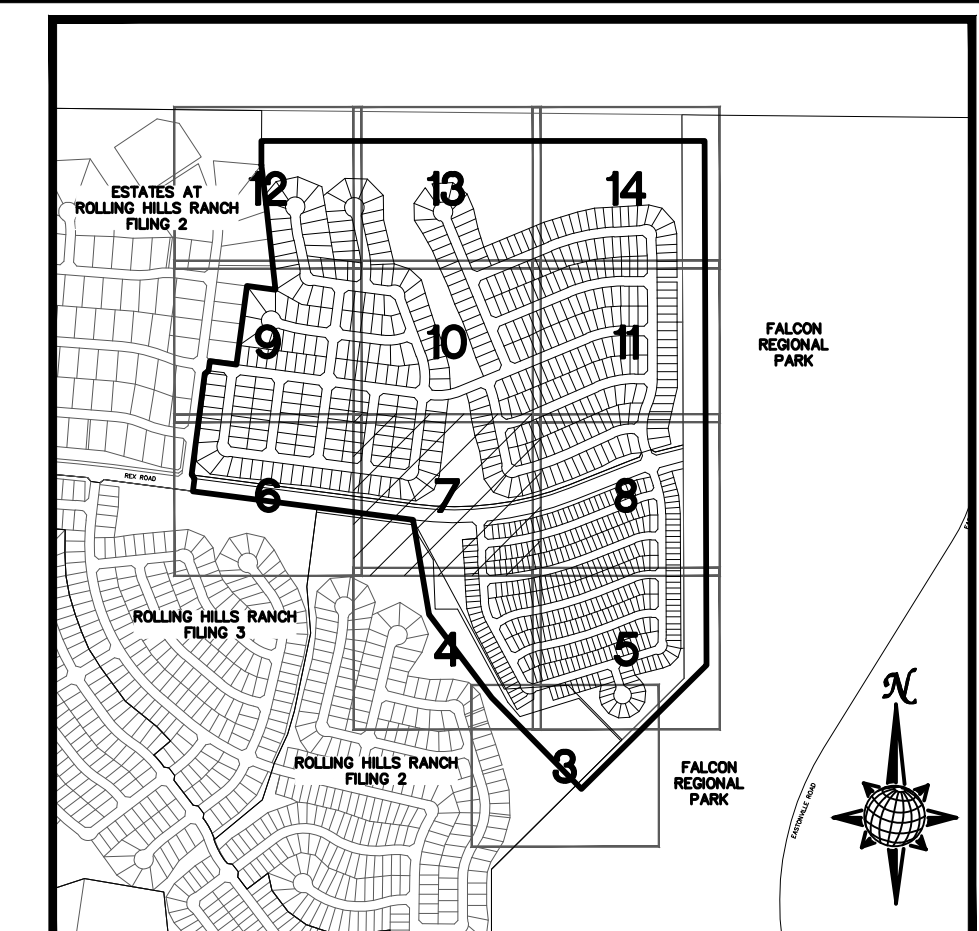


SEE SHEET 6

SEE SHEET 10

SEE SHEET 8

SEE SHEET 4



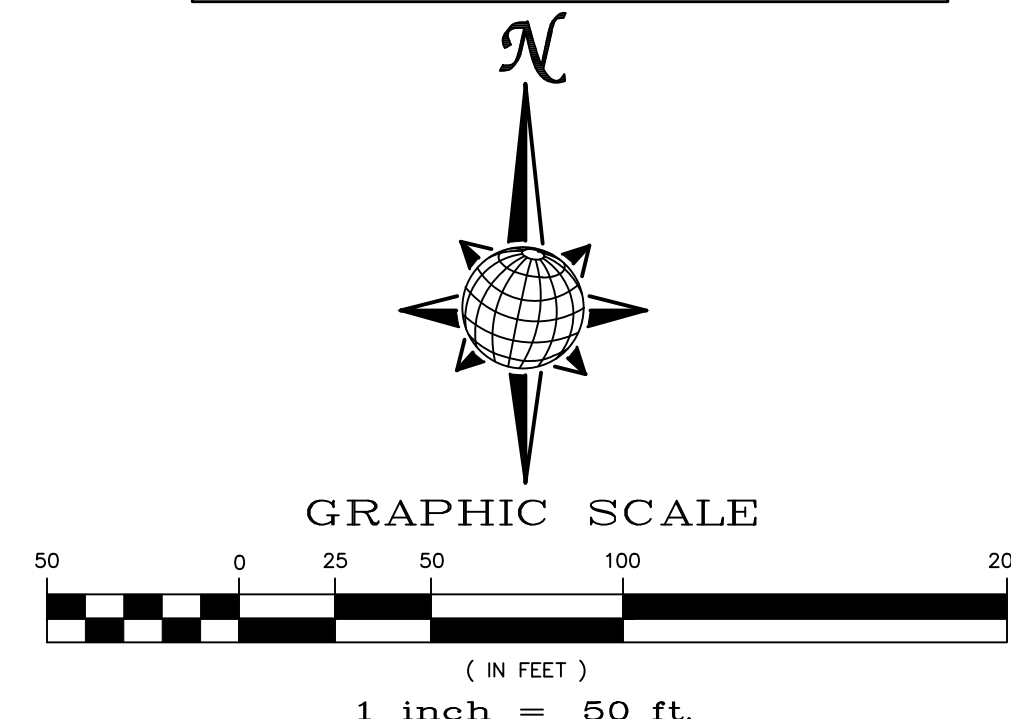
**INDEX MAP**  
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		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

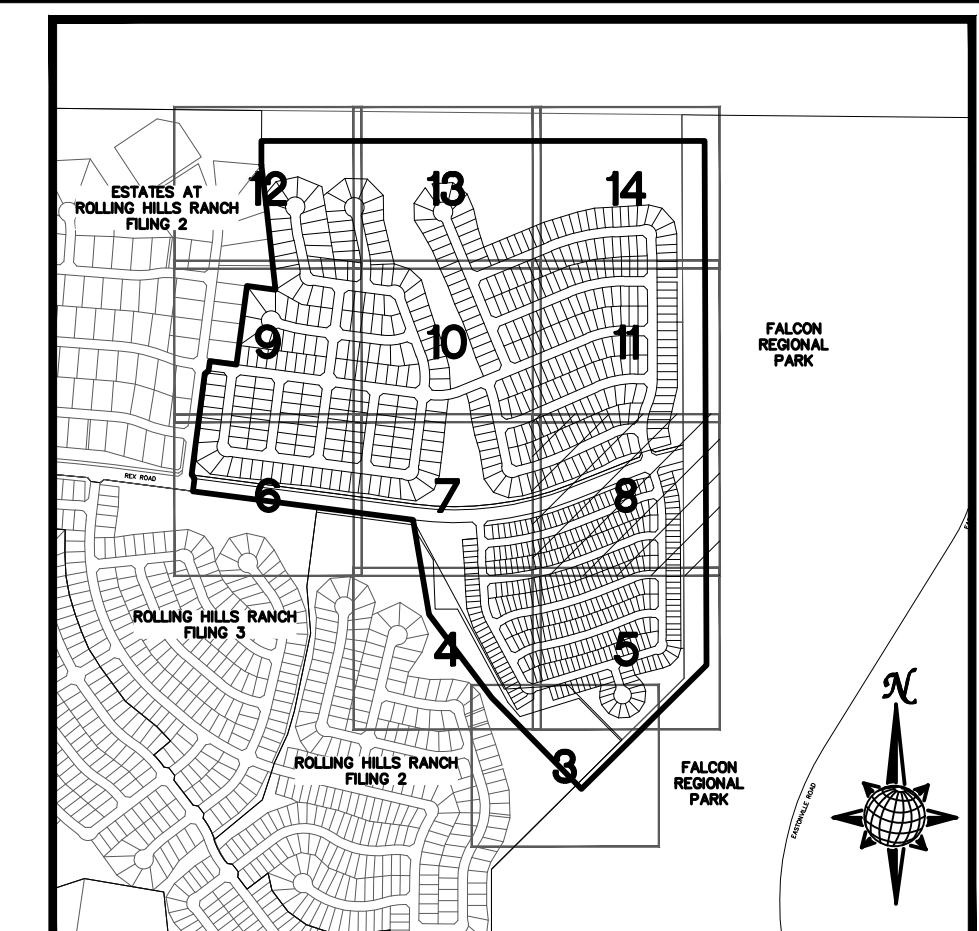
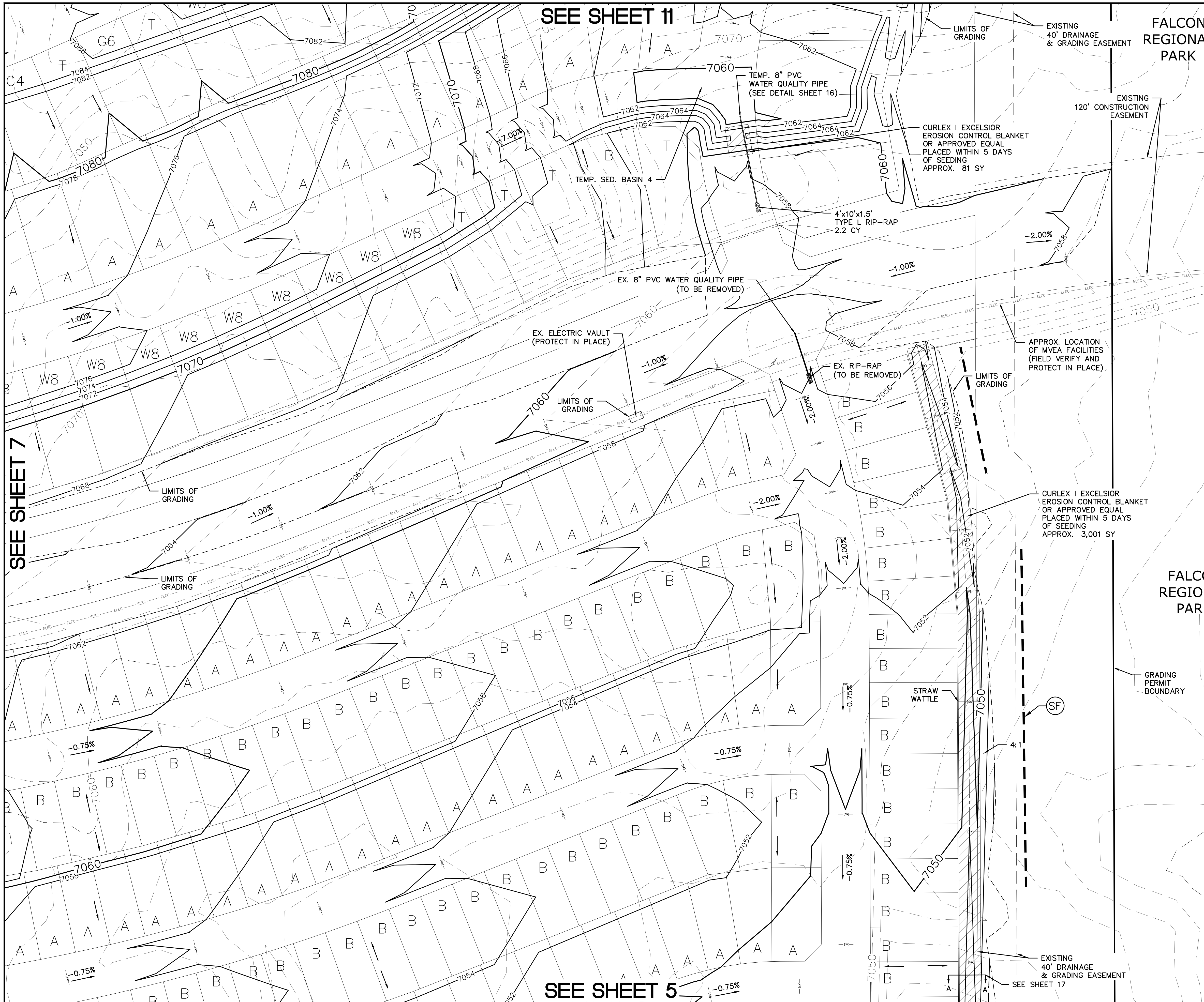
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(SEE COVER FOR LIST OF UTILITY CONTACTS)

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH		PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET	
Drawn by	LOG	Checked by	TAK	Date	MAY 2022
Scale	AS SHOWN	7 of 23			
PROFESSIONAL ENGINEER					



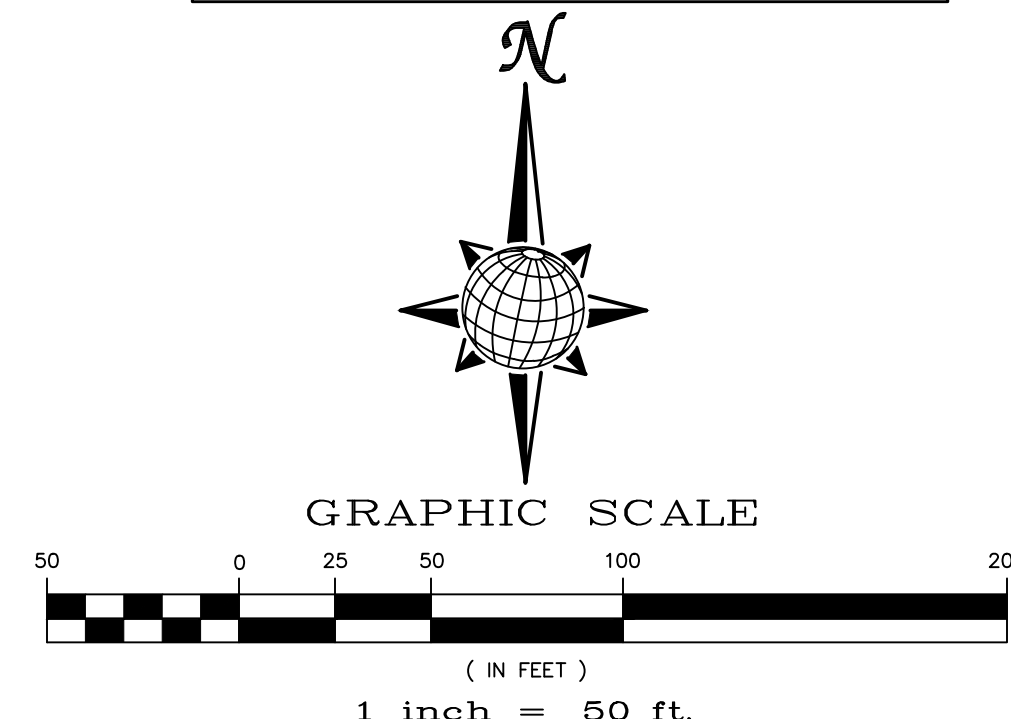
**INDEX MAP**  
N.T.S.

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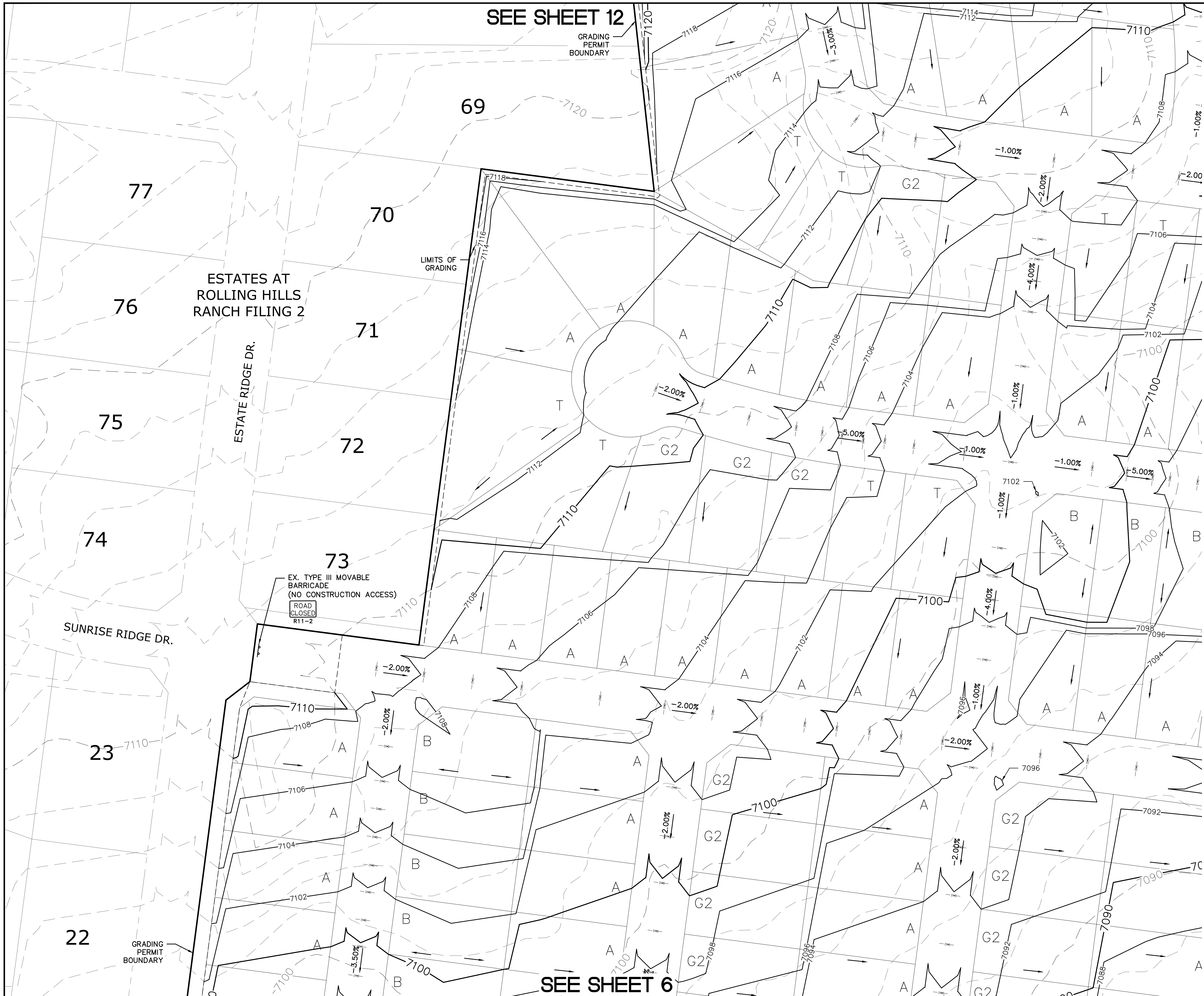
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1	2	3	4	No.
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<b>MERIDIAN RANCH</b>				
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MAY 2022
Scale	8 of 23			Date





SEE SHEET 12

GRADING PERMIT BOUNDARY

ESTATES AT ROLLING HILLS RANCH FILING 2

ESTATE RIDGE DR.

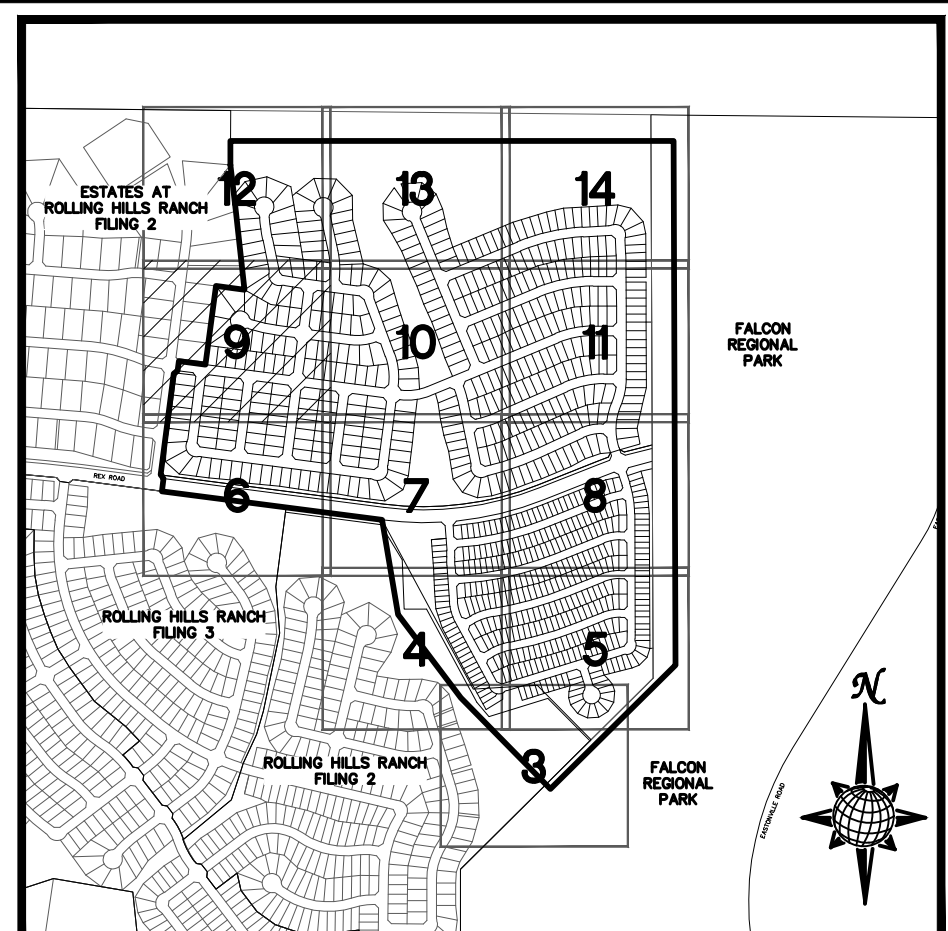
SUNRISE RIDGE DR.

EX. TYPE III MOVABLE BARRICADE (NO CONSTRUCTION ACCESS)

ROAD CLOSED R11-2

SEE SHEET 6

SEE SHEET 10



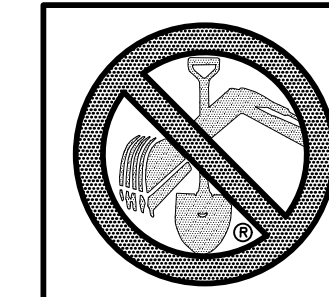
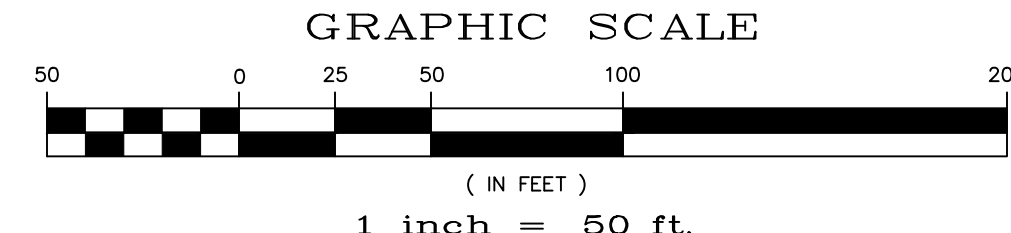
INDEX MAP N.T.S.

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		LIMITS OF GRADING
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		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

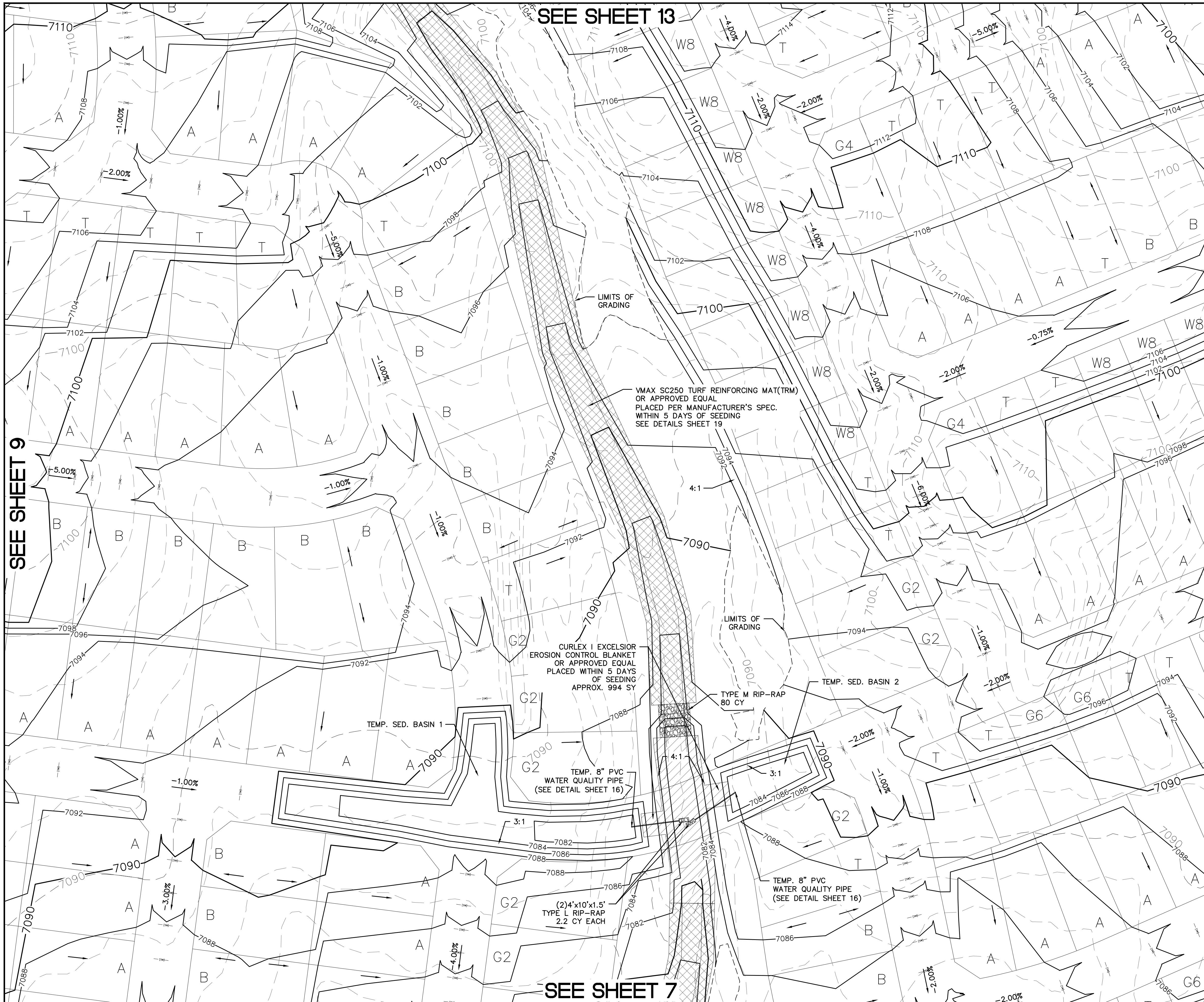
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Drawn by	LOG	Checked by	TAK	Date	MAY 2022
Scale	AS SHOWN	9	of 23	Date	
PROFESSIONAL ENGINEER		PROFESSIONAL ENGINEER		Date	
Date		Date		Date	
Revisions		Revisions		Revisions	
No.		No.		No.	
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4		5		6	
7		8		9	
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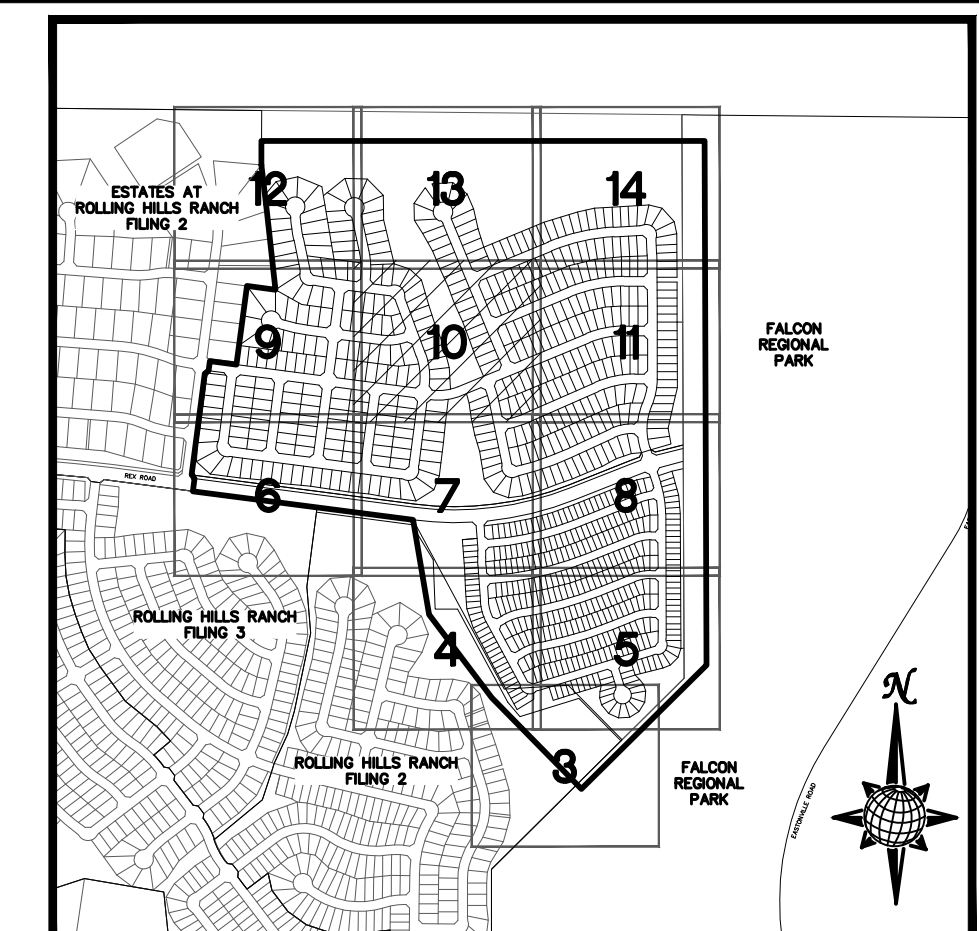


SEE SHEET 13

SEE SHEET 9

SEE SHEET 11

SEE SHEET 7



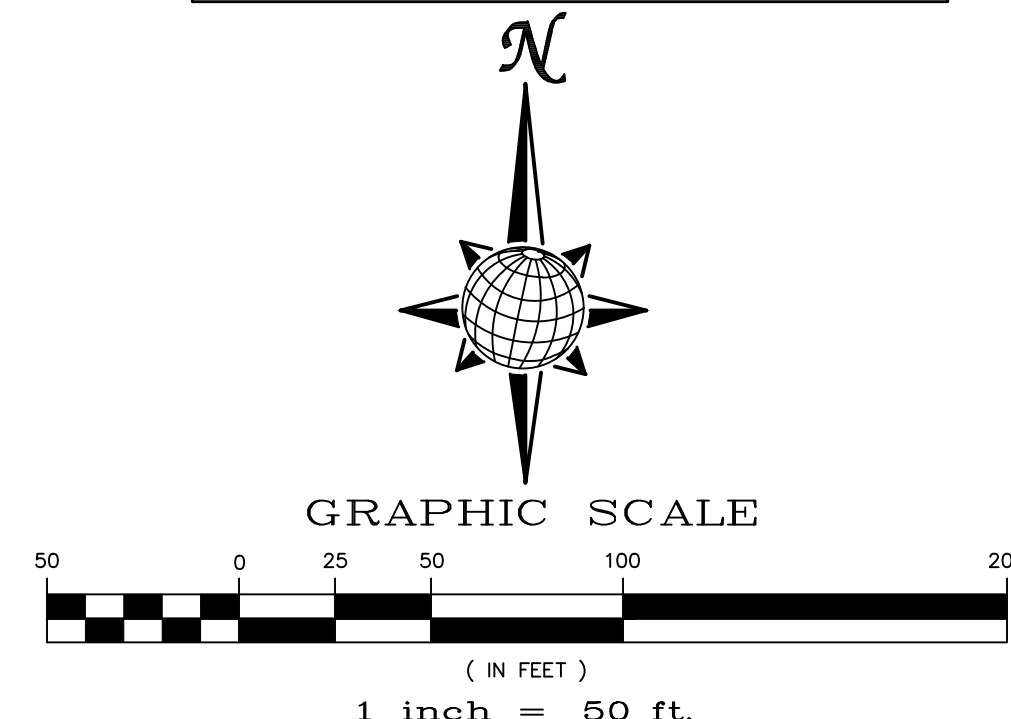
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N.T.S.

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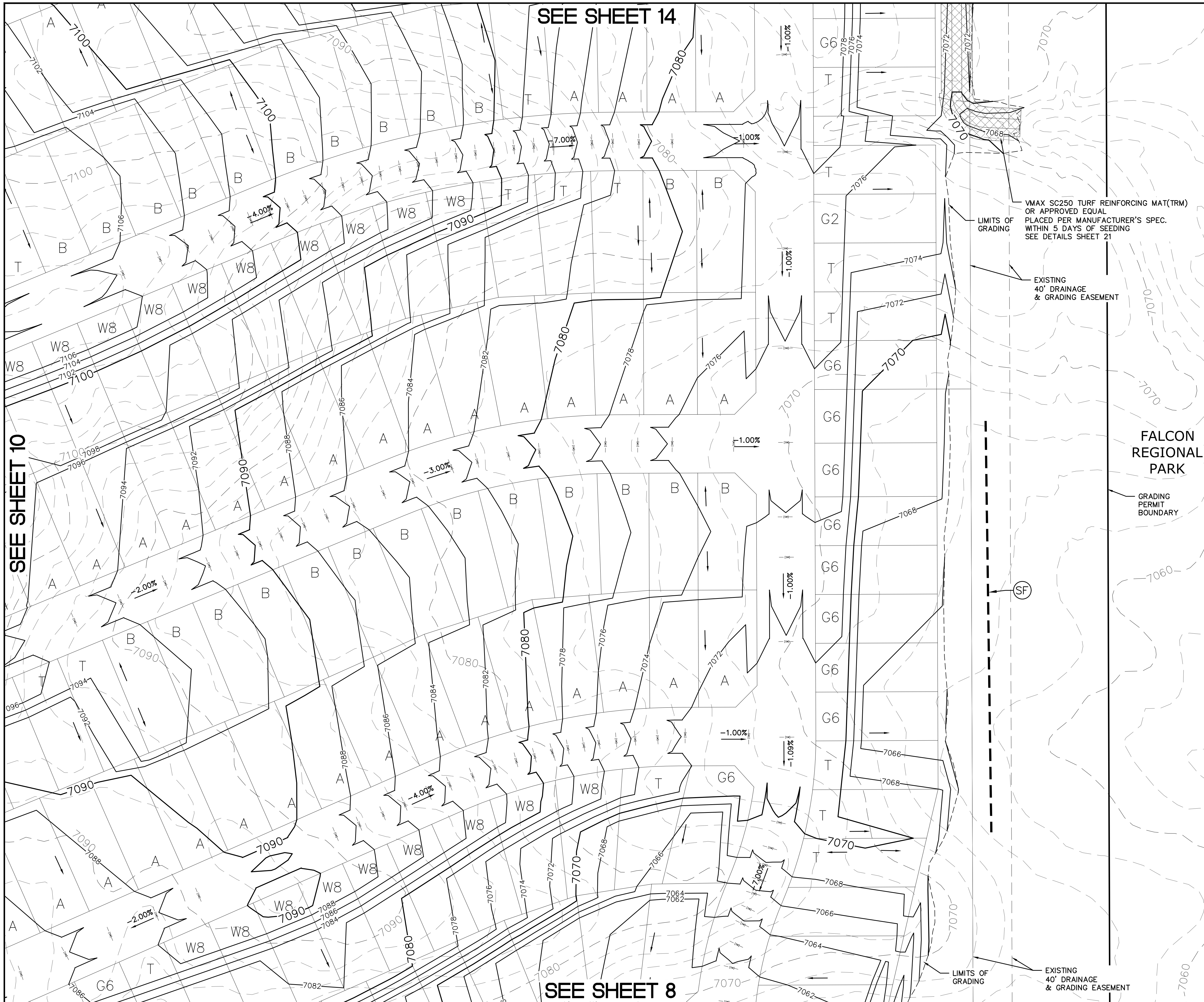
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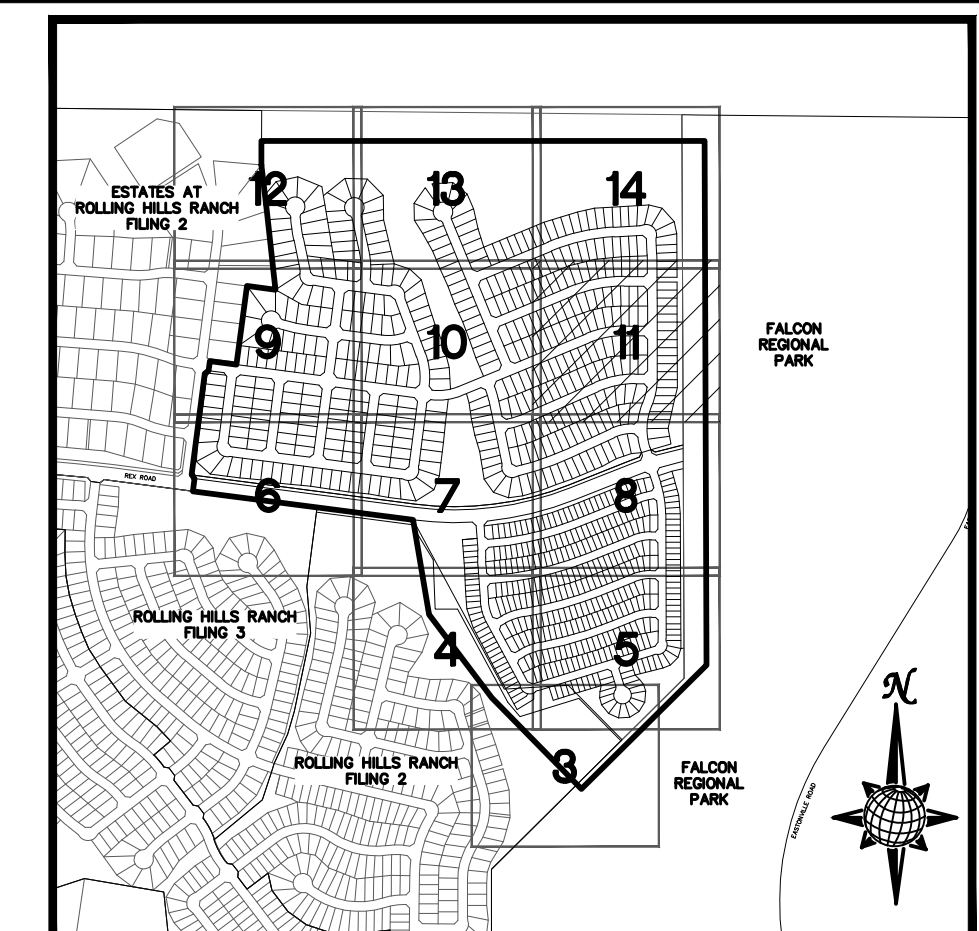
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH	
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Drawn by LOG	Checked by TAK	Date MAY 2022	Scale AS SHOWN
10 of 23		10 of 23	
TWO WORKING DAYS <b>BEFORE YOU DIG CALL 811</b>		COLORADO REGISTERED PROFESSIONAL ENGINEER 31429	
OR UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987 (SEE COVER FOR LIST OF UTILITY CONTACTS)		PCD PROJECT NO. EPG222	



SEE SHEET 14

SEE SHEET 10

SEE SHEET 8



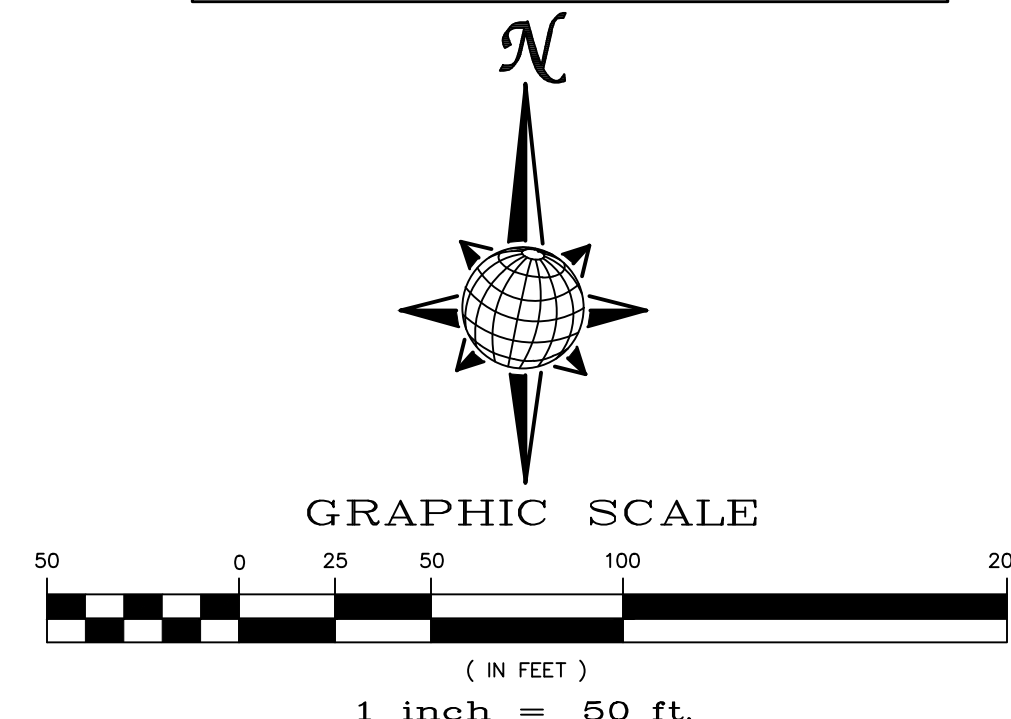
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3) ROLLING HILLS RANCH FILING 2  
4) ROLLING HILLS RANCH FILING 1  
5) ROUGH GRADING FOR ROLLING HILLS RANCH  
6) EASTONVILLE RAW WATER PIPELINE  
7) MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

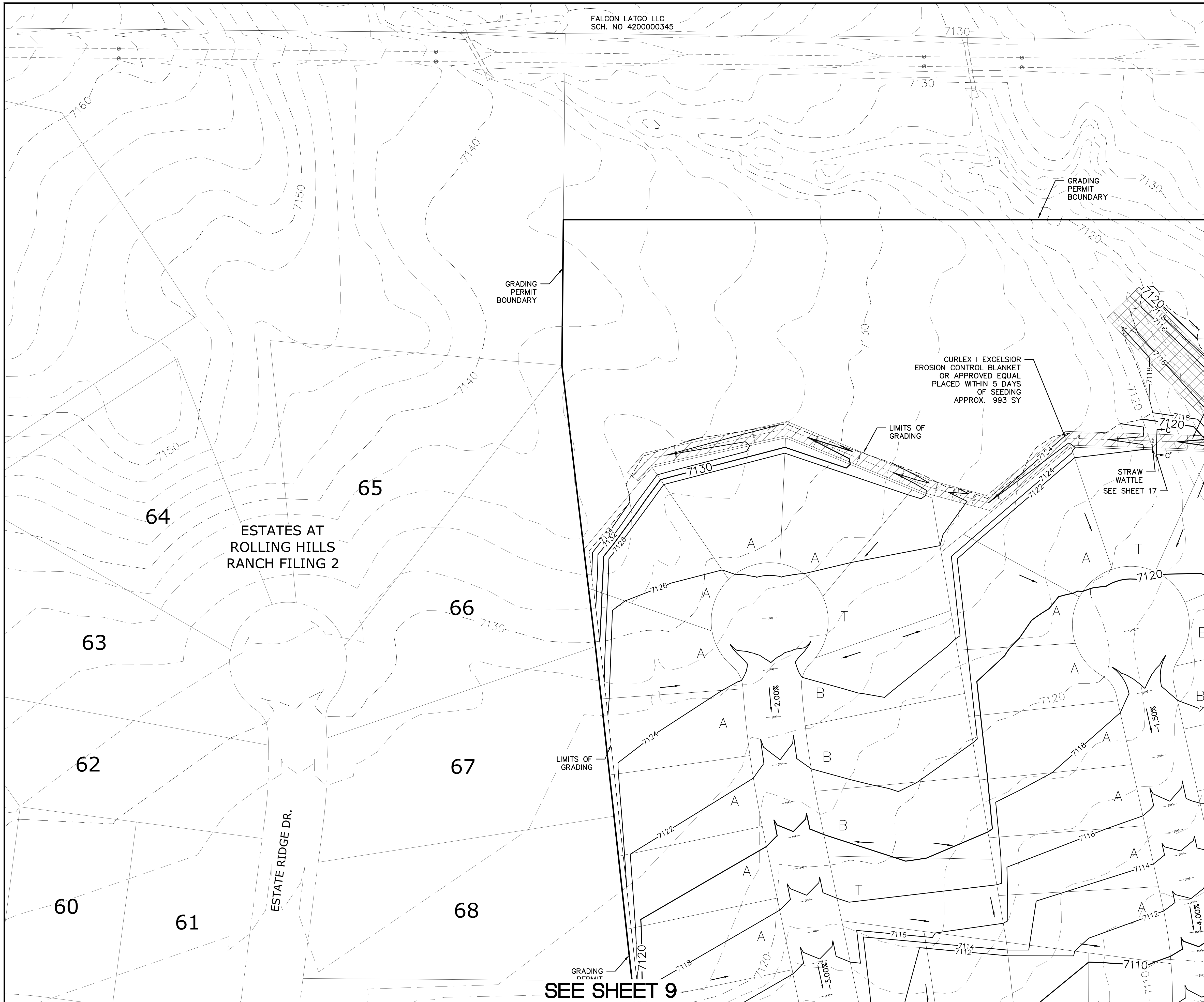


**TWO WORKING DAYS BEFORE YOU DIG CALL 811**  
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

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

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		
<b>MERIDIAN RANCH</b>		
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET		
Drawn by: LOG	Checked by: TMK	Date: MAY 2022
Scale: AS SHOWN	11 of 23	



FALCON LATGO LLC  
SCH. NO 4200000345

GRADING PERMIT BOUNDARY

GRADING PERMIT BOUNDARY

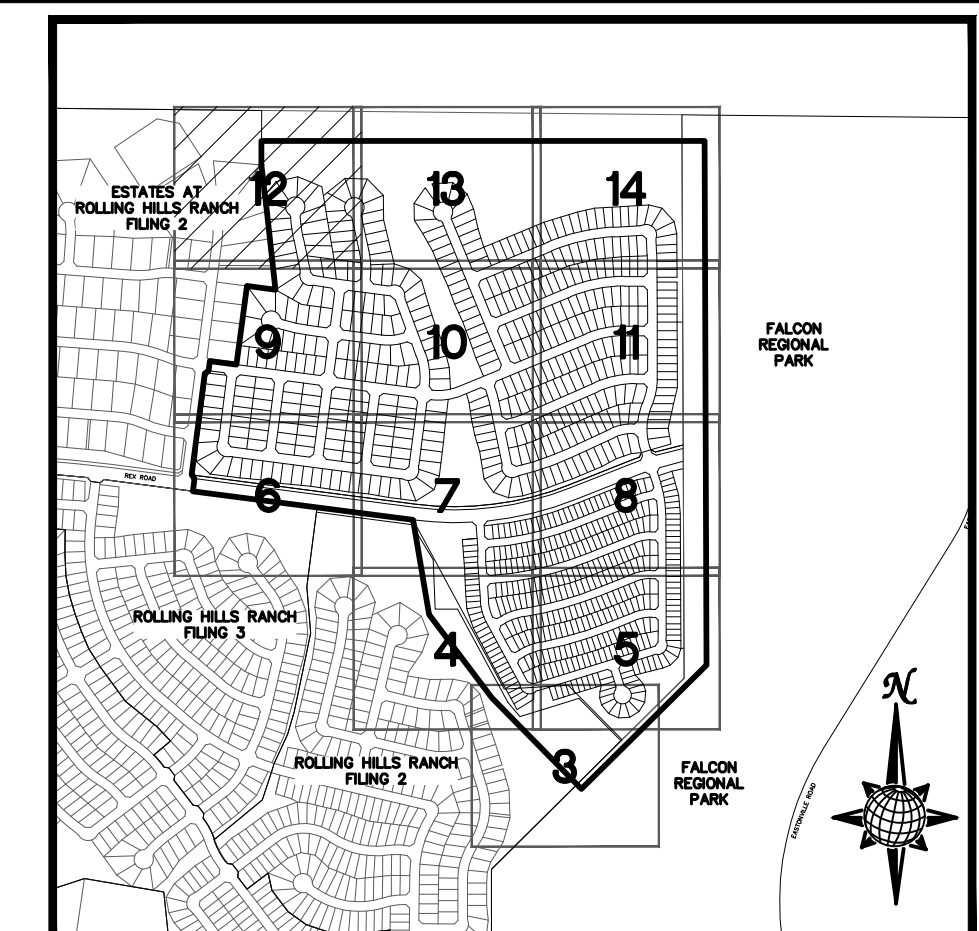
CURLEX 1 EXCELSIOR  
EROSION CONTROL BLANKET  
OR APPROVED EQUAL  
PLACED WITHIN 5 DAYS  
OF SEEDING  
APPROX. 993 SY

LIMITS OF GRADING

STRAW WATTLE  
SEE SHEET 17

LIMITS OF GRADING

SEE SHEET 9



**INDEX MAP**  
N.T.S.

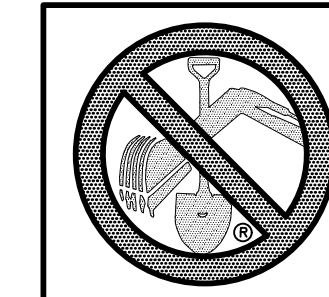
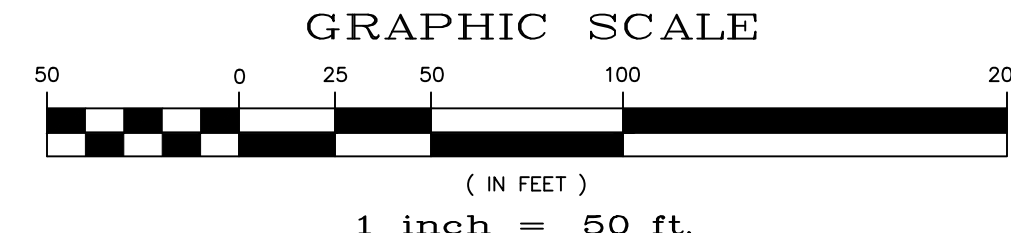
**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES PER DETAIL SHEET 23
		EROSION WATTLES PER DETAIL SHEET 23
		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 23
LIMITS OF GRADING		
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	A	LOT GRADE TYPE

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 22.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1) ESTATES AT ROLLING HILLS RANCH FILING 2  
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7) MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

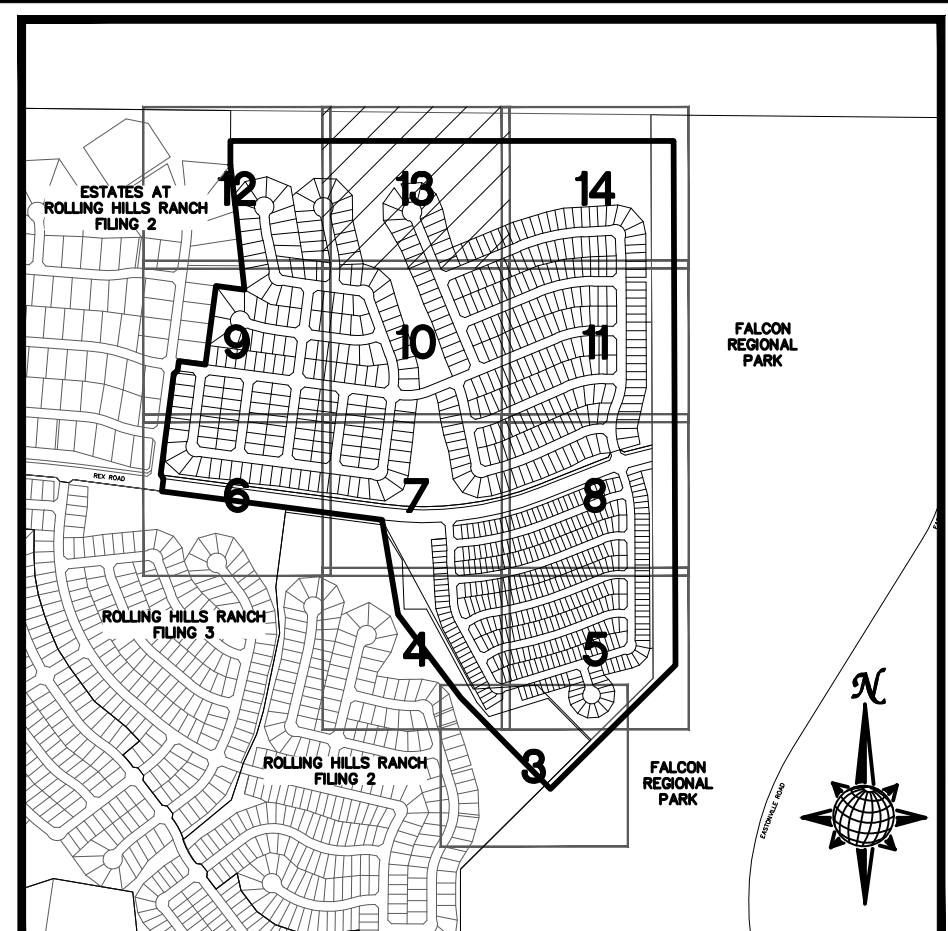
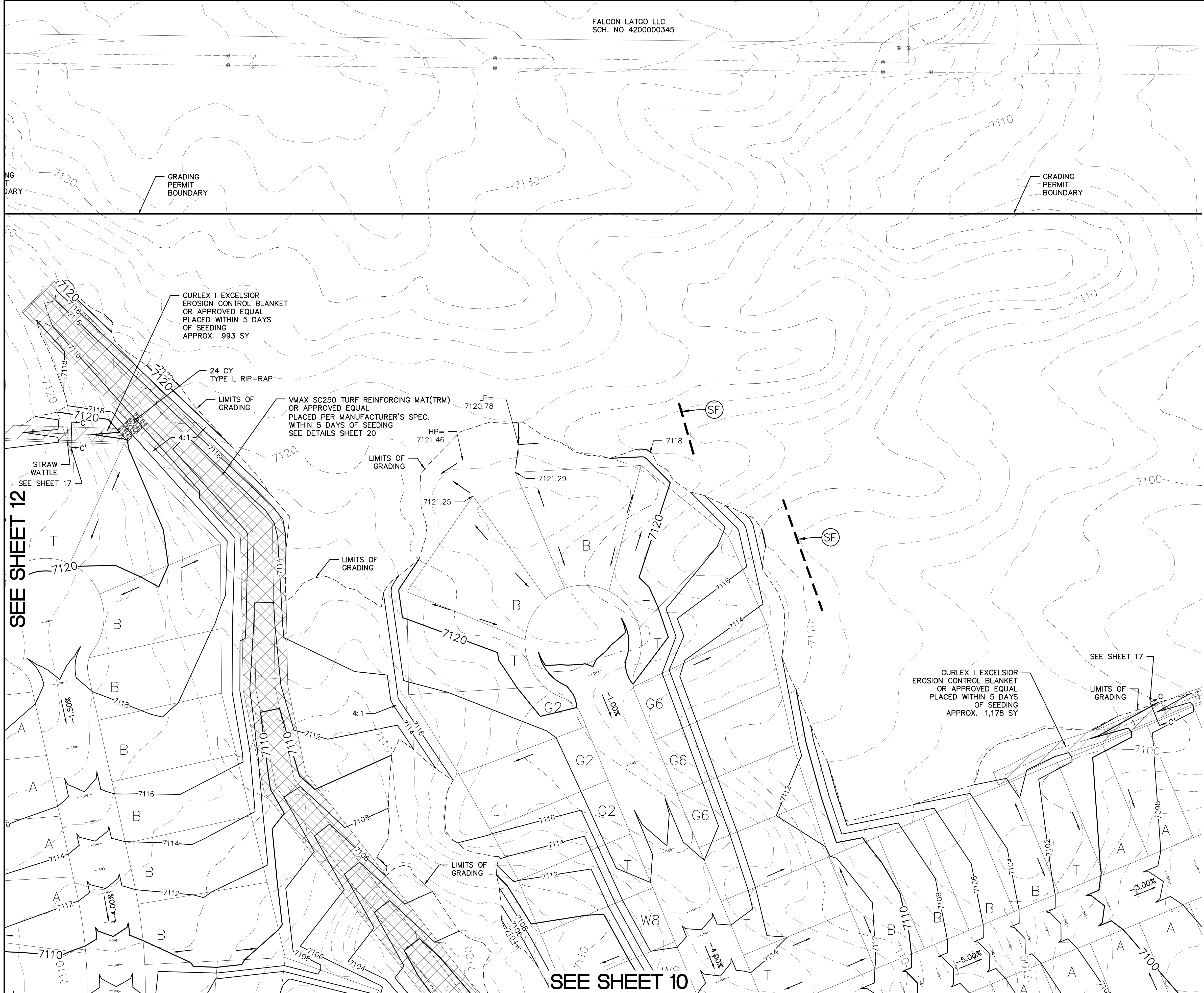
SEE SHEET 13



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)

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH		PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET	
Drawn by	LOG	Checked by	TAK	Date	MAY 2022
Scale	AS SHOWN	12 of	23		

FALCON LATGO LLC  
SCH. NO 4200000345



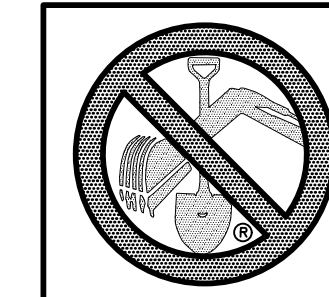
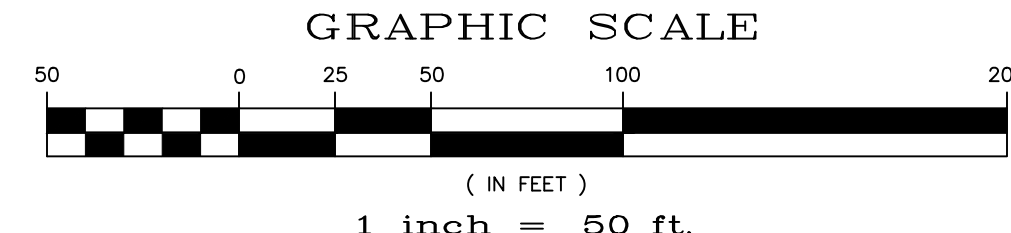
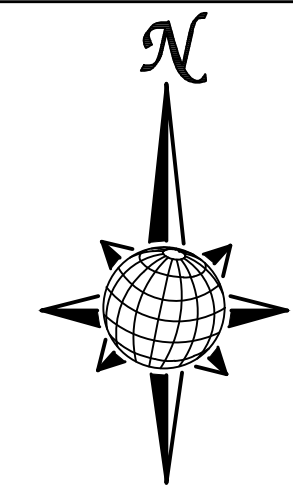
**INDEX MAP**  
N.T.S.

**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES PER DETAIL SHEET 23
		EROSION WATTLES PER DETAIL SHEET 23
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
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	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 23
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	A	LOT GRADE TYPE

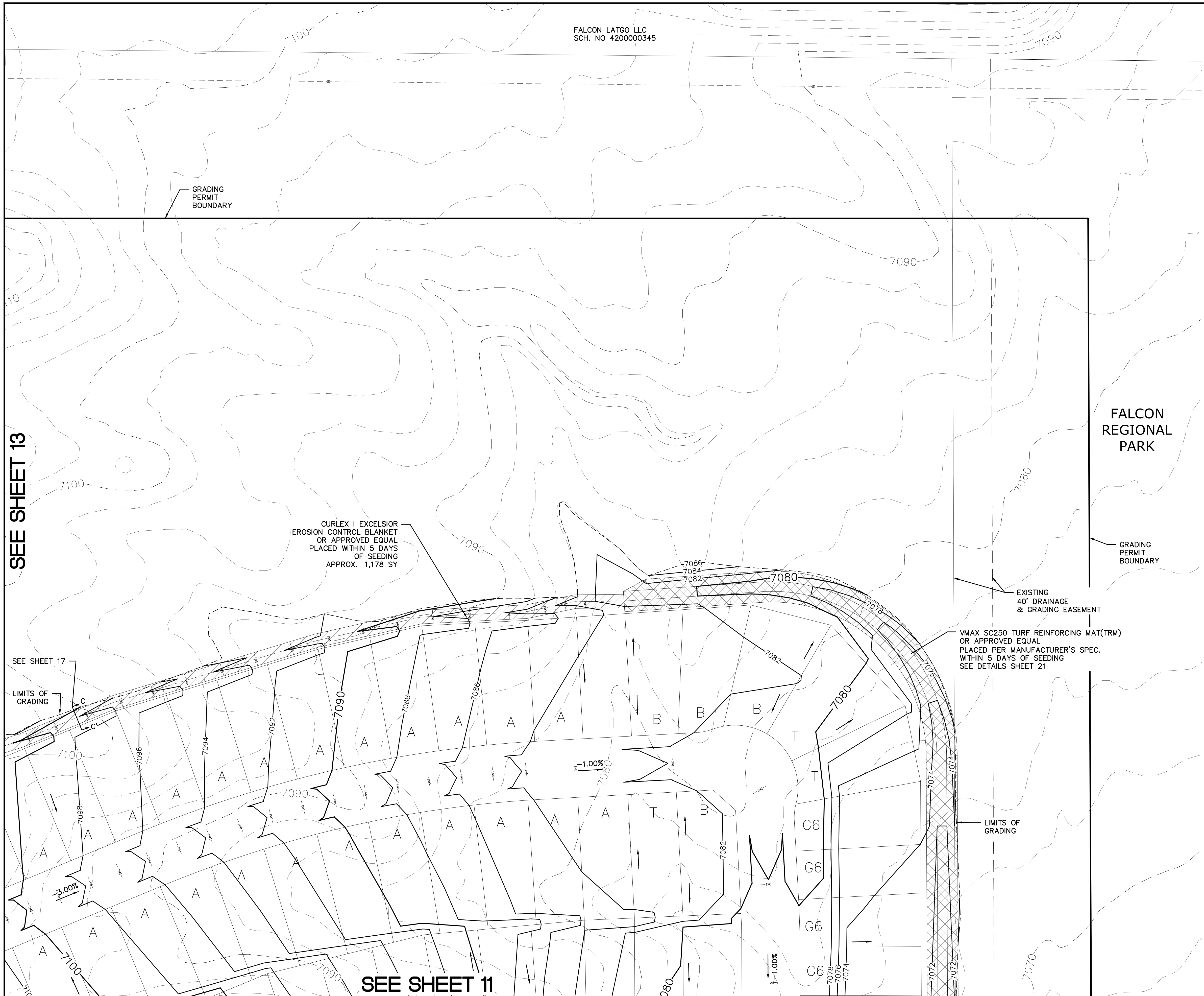
NOTE:  
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TWO WORKING DAYS  
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1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

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><b>MERIDIAN RANCH</b></p>							
<p>PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET</p>							
Drawn by	LOG	Checked by	TAK	Date	MAY 2022		
Scale	AS SHOWN	13	of	23			



FALCON LATGO LLC  
SCH. NO 420000345

GRADING  
PERMIT  
BOUNDARY

FALCON  
REGIONAL  
PARK

GRADING  
PERMIT  
BOUNDARY

EXISTING  
40' DRAINAGE  
& GRADING EASEMENT

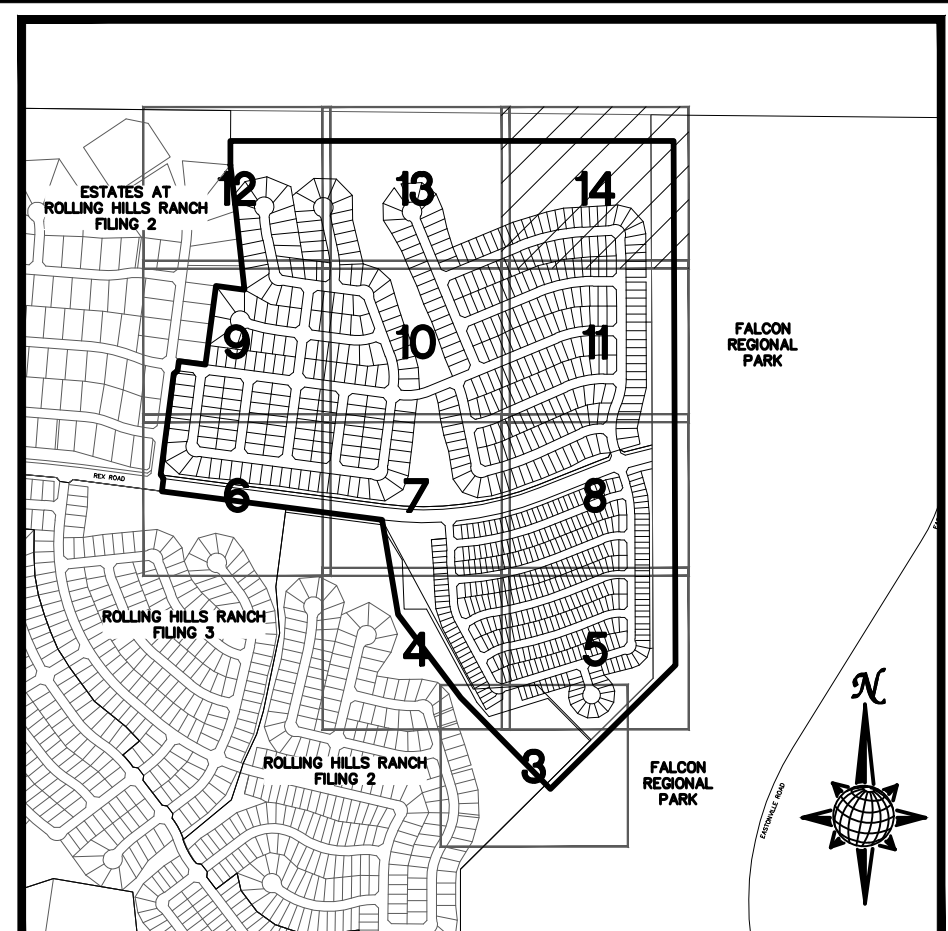
VMAX SC250 TURF REINFORCING MAT (TRM)  
OR APPROVED EQUAL  
PLACED PER MANUFACTURER'S SPEC.  
WITHIN 5 DAYS OF SEEDING  
SEE DETAILS SHEET 21

CURLEX I EXCELSIOR  
EROSION CONTROL BLANKET  
OR APPROVED EQUAL  
PLACED WITHIN 5 DAYS  
OF SEEDING  
APPROX. 1,178 SY

SEE SHEET 13

SEE SHEET 17

SEE SHEET 11



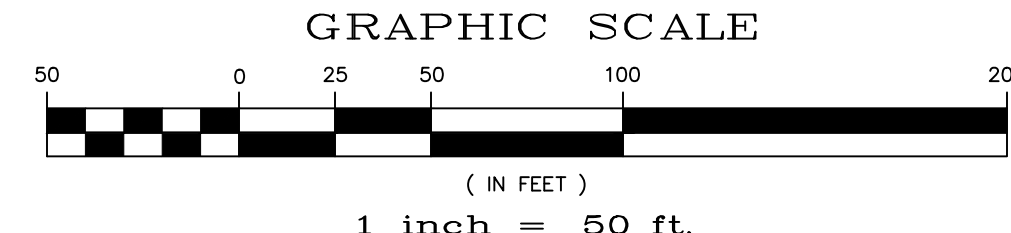
**INDEX MAP**  
N.T.S.

**LEGEND**

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<b>LIMITS OF GRADING</b>		
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

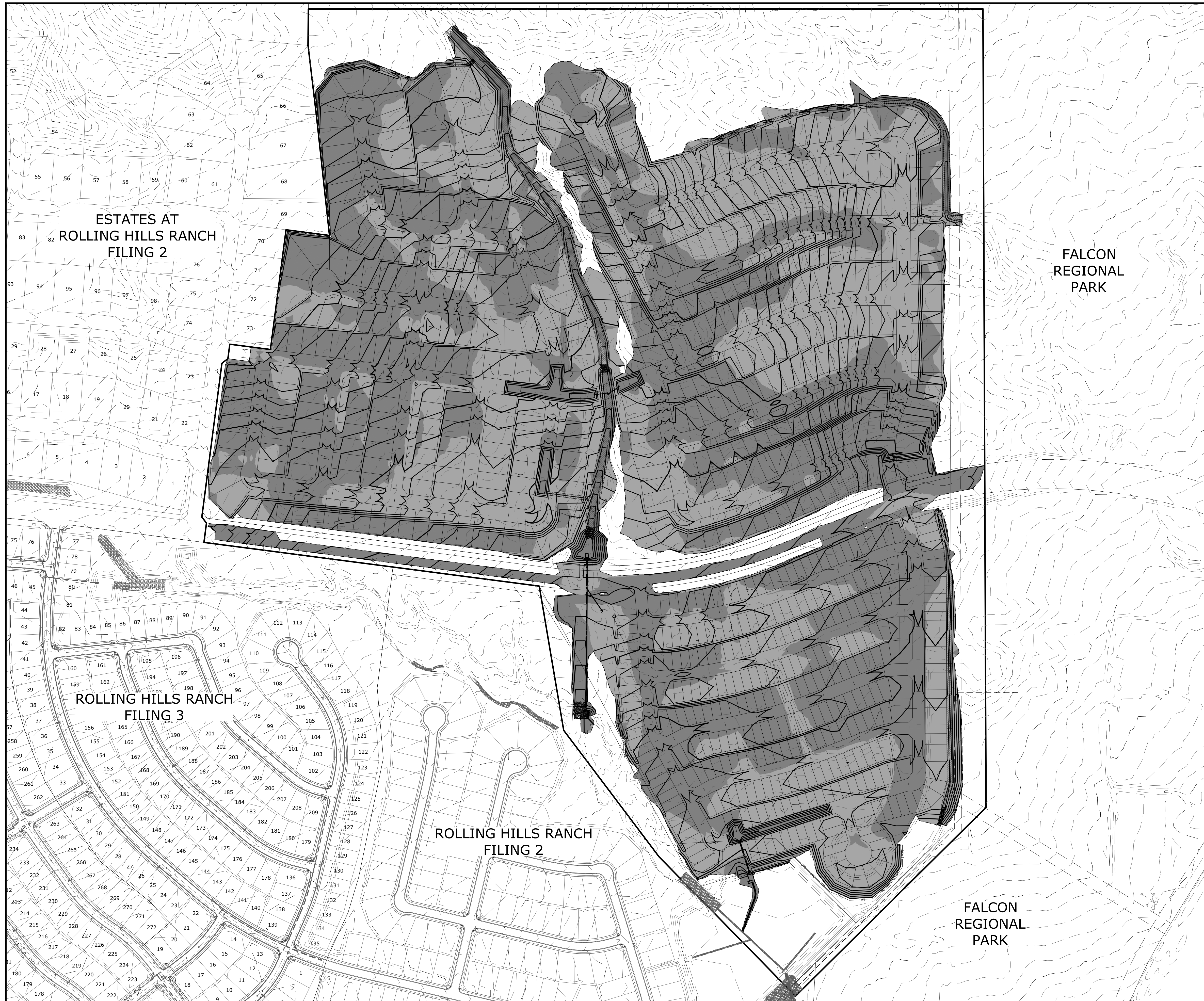
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PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET							
Drawn by	LOG	Checked by	TAK	Date	MAY 2022		
Scale	AS SHOWN			14	of 23		

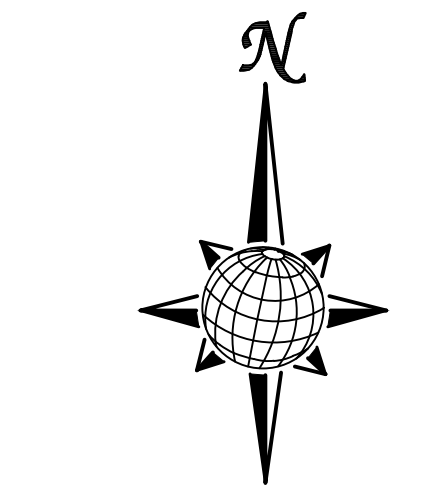
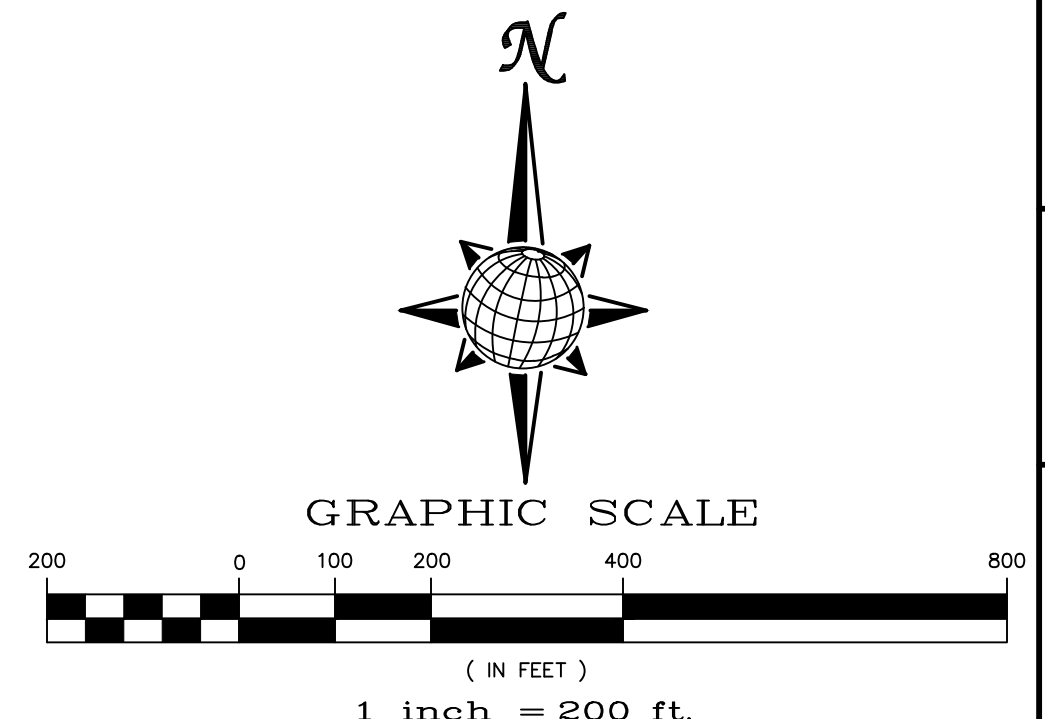


**LEGEND:**

- AREAS OF CUT
- AREAS OF FILL

**NOTE:**  
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 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



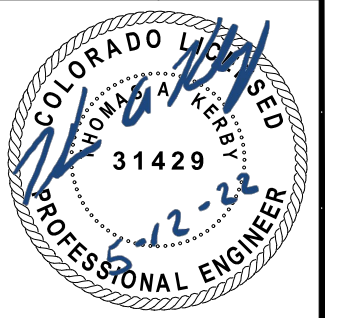
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 ROLLING HILLS RANCH NORTH  
 ROUGH GRADING AND EROSION  
 CONTROL PLAN  
 CUT-FILL SHEET**

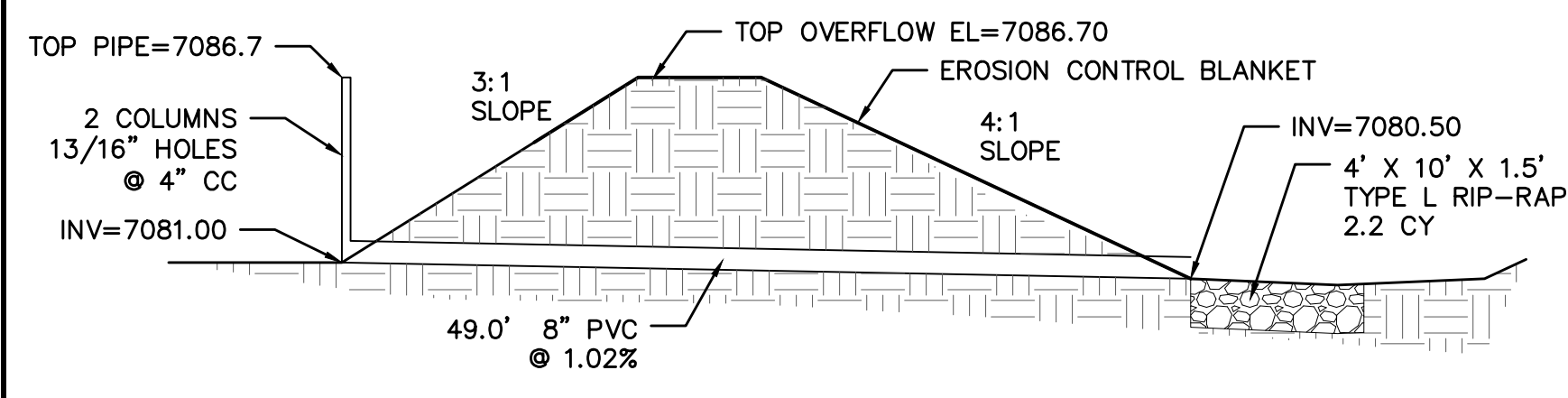
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 Checked by **TAK**  
 Date **MAY 2022**

Scale **AS SHOWN**  
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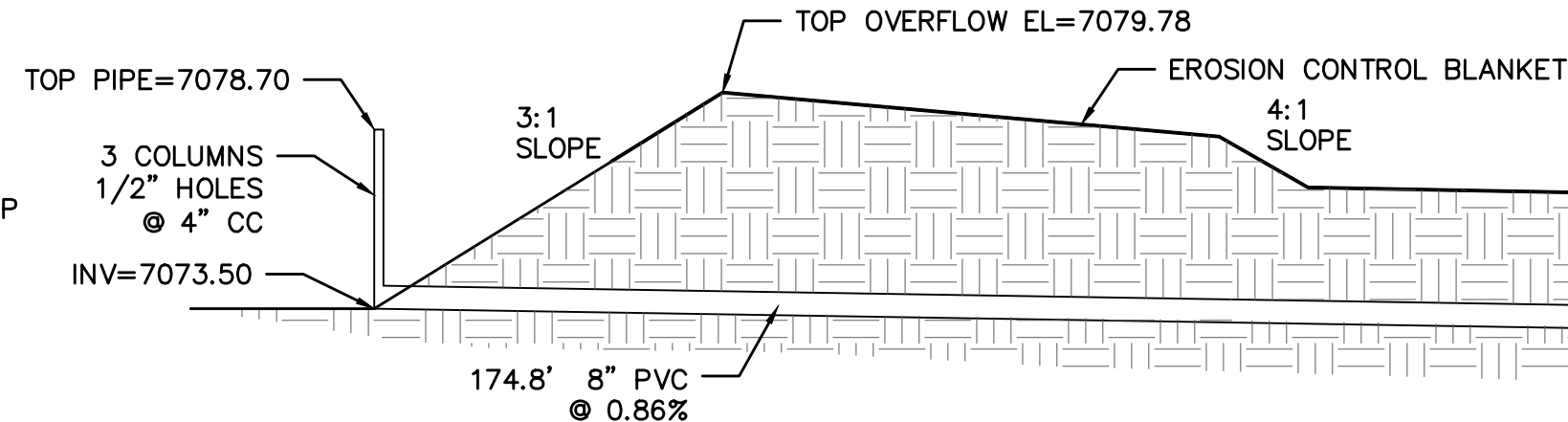
**TWO WORKING DAYS  
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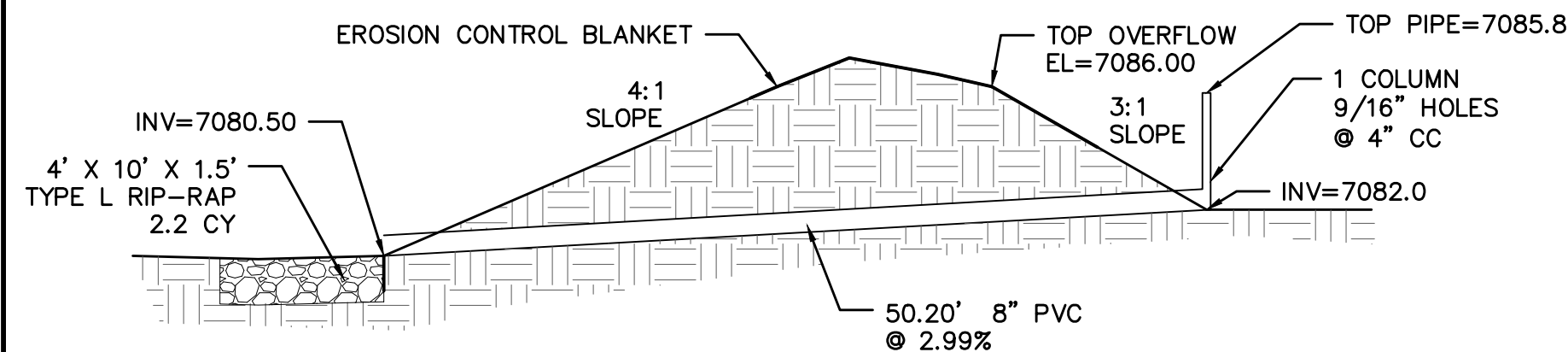




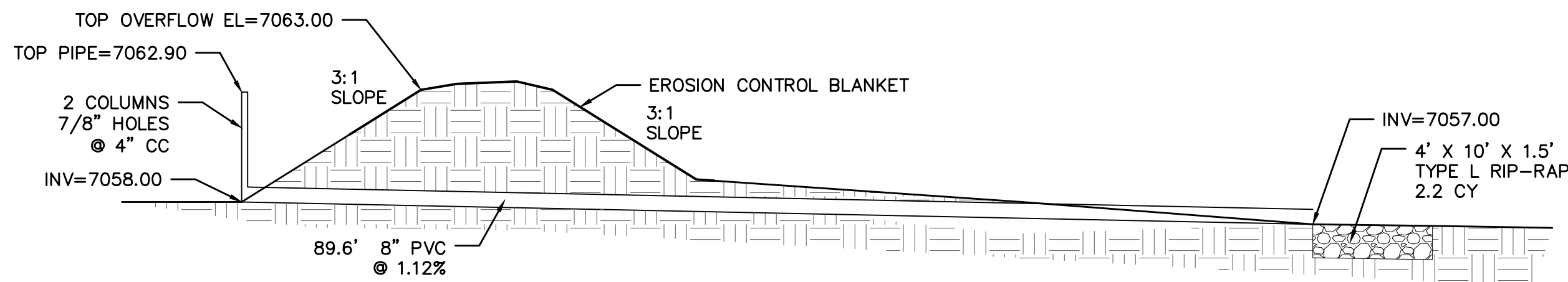
**TEMPORARY SEDIMENTATION POND 1**  
 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
 NTS



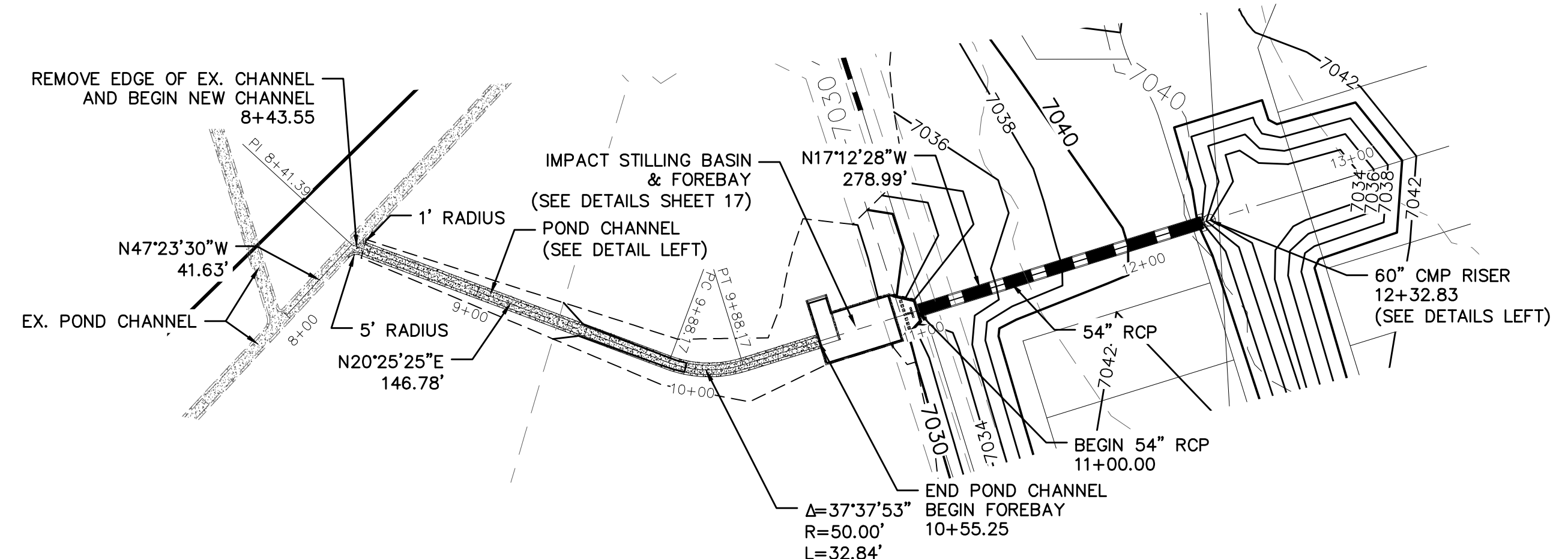
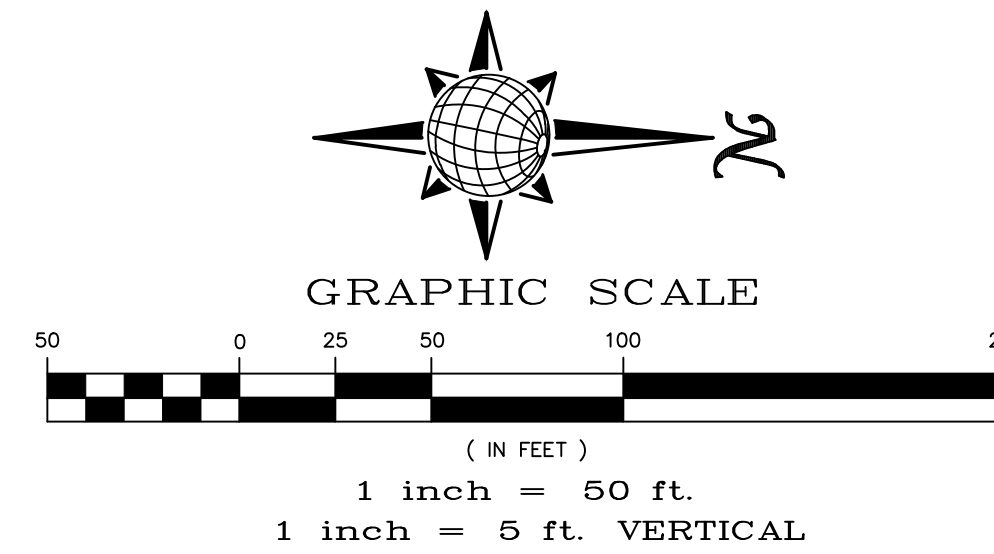
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 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
 NTS



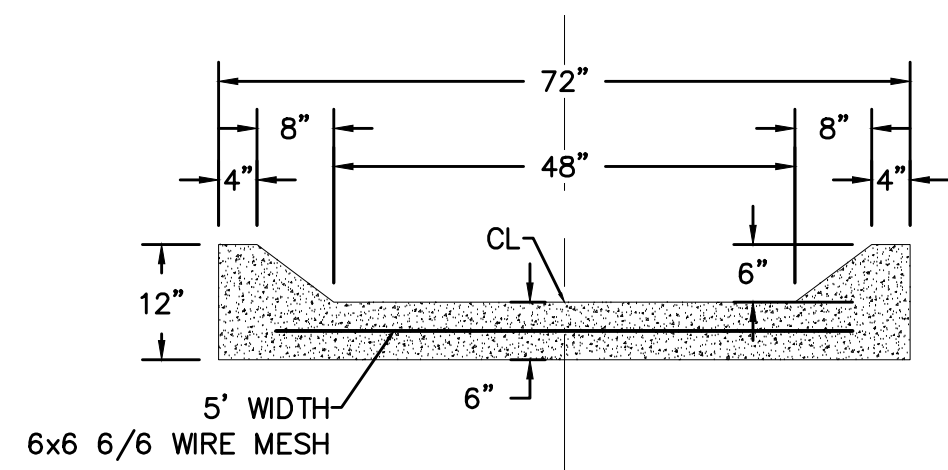
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 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
 NTS



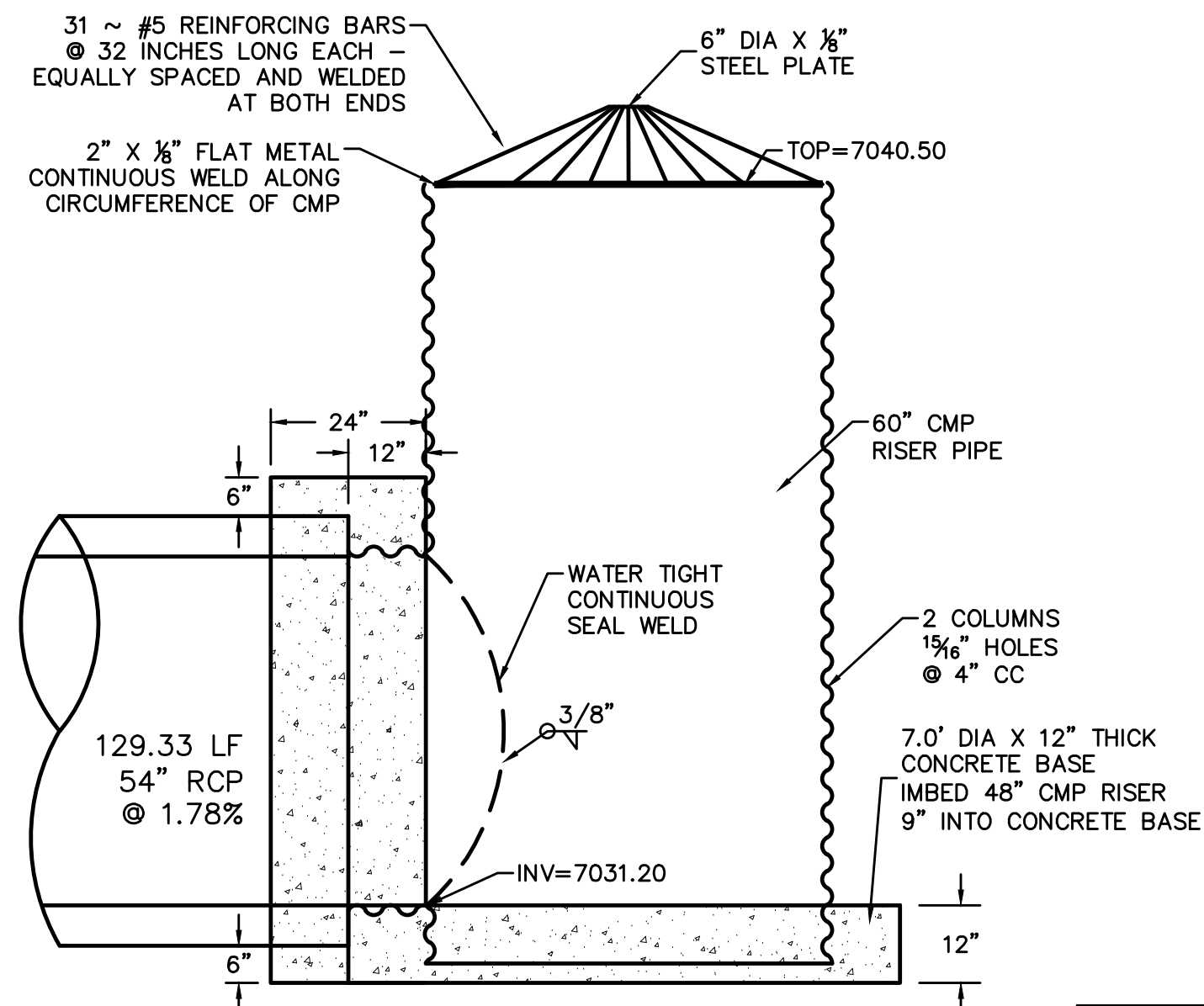
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 NTS



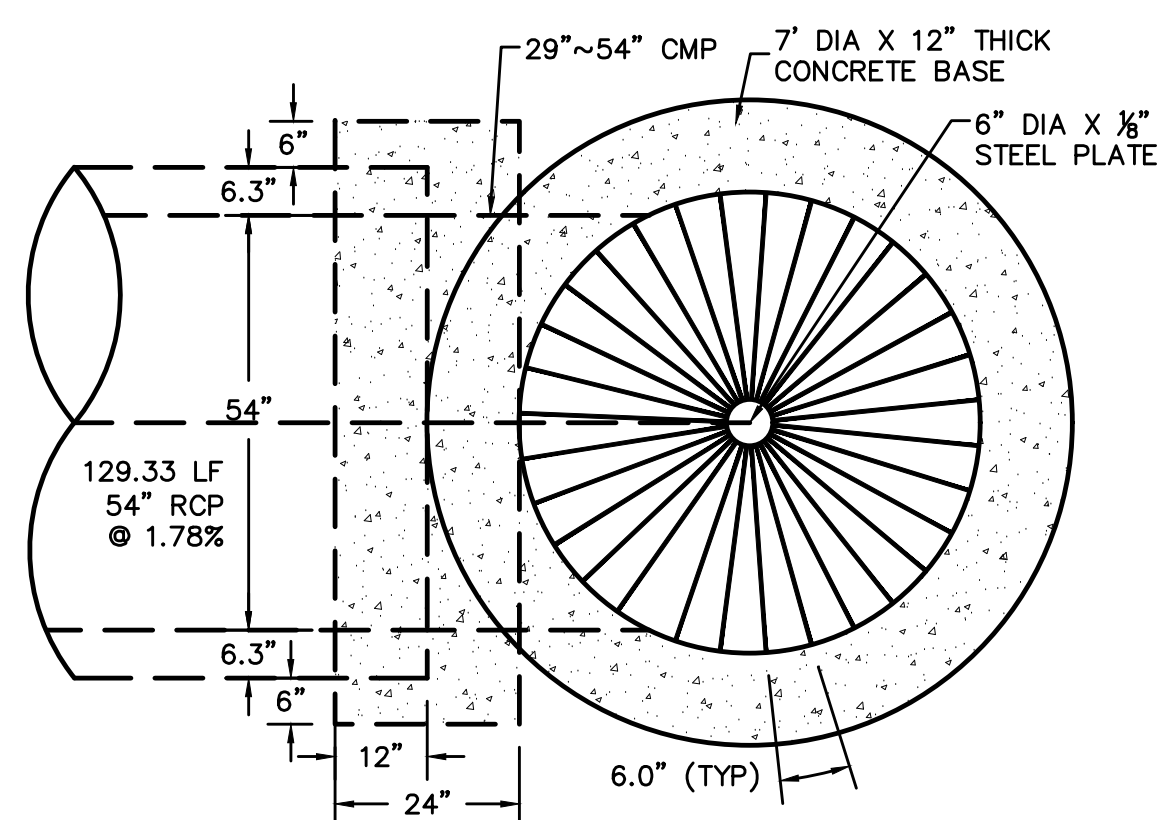
**TEMP. SED. BASIN 5 OUTLET**



**CONCRETE POND CHANNEL**  
 CROSS SECTION DETAIL  
 NTS



**CONTROL STRUCTURE**  
 SIDE VIEW  
 NTS



**CONTROL STRUCTURE**  
 TOP VIEW  
 NTS

NOTE: PAINT OR COAT ALL WELD AND CUT AREAS OF THE CMP PIPES.

7055						7055
7050						7050
7045						7045
7040						7040
7035						7035
7030						7030
7025						7025
7020						7020

Date	Appr.	Date	Revis.	No.
				1
				2
				3
				4

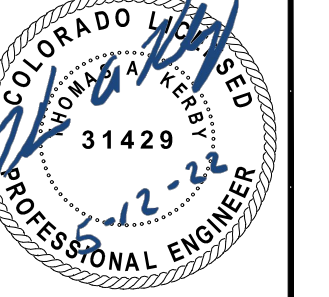
TECH CONTRACTORS  
 11886 STAPLETON DRIVE  
 FALCON, CO 80831  
 TELEPHONE: 719.495.7444  
 FAX: 719.495.2457



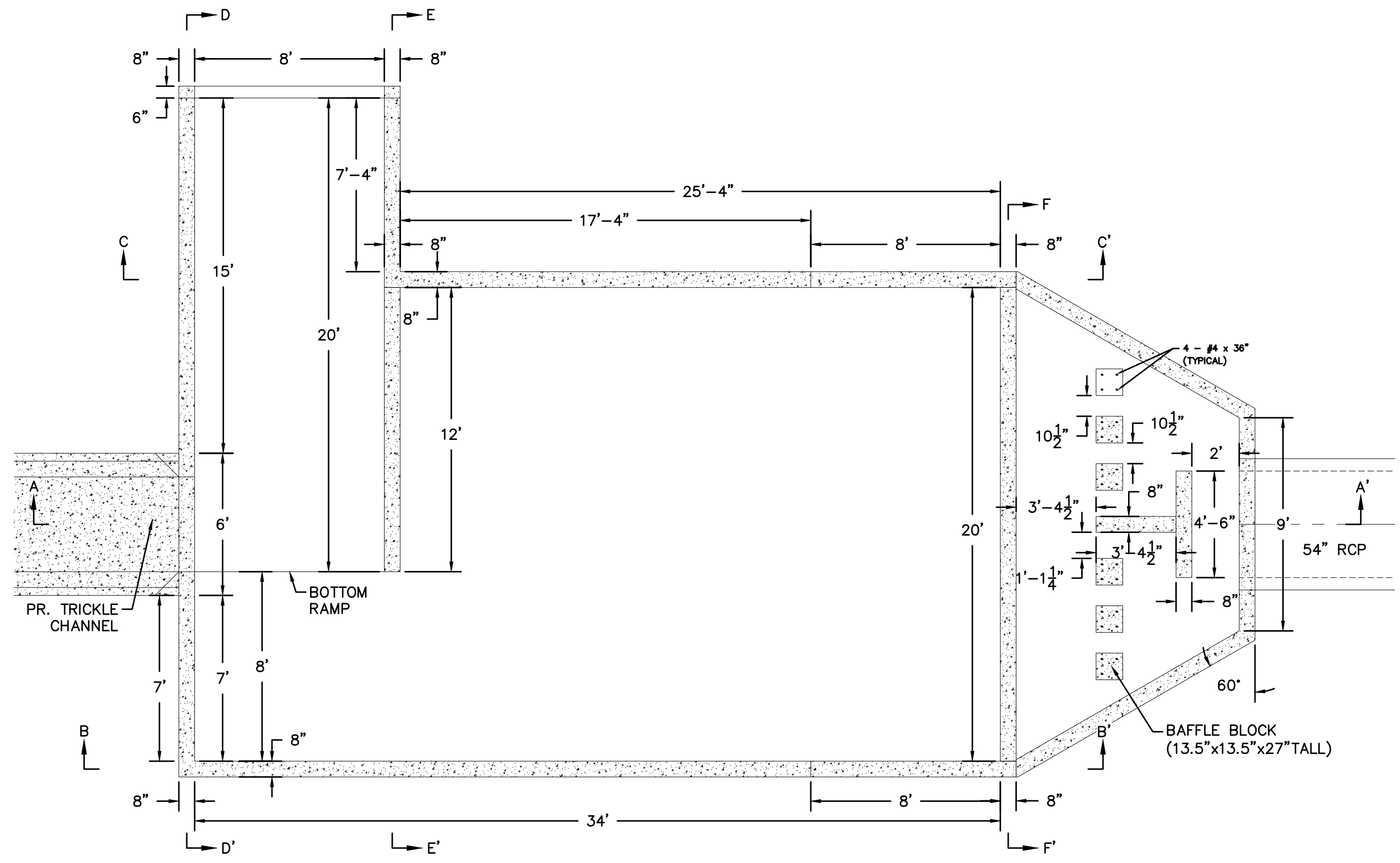
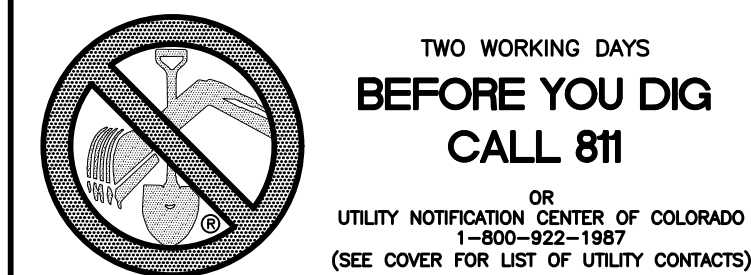
PREDEVELOPMENT GRADING  
 ROLLING HILLS RANCH NORTH  
 ROUGH GRADING AND EROSION  
 CONTROL PLAN  
 DETAIL SHEET

Drawn by LOG  
 Checked by TJK  
 Date MAY 2022

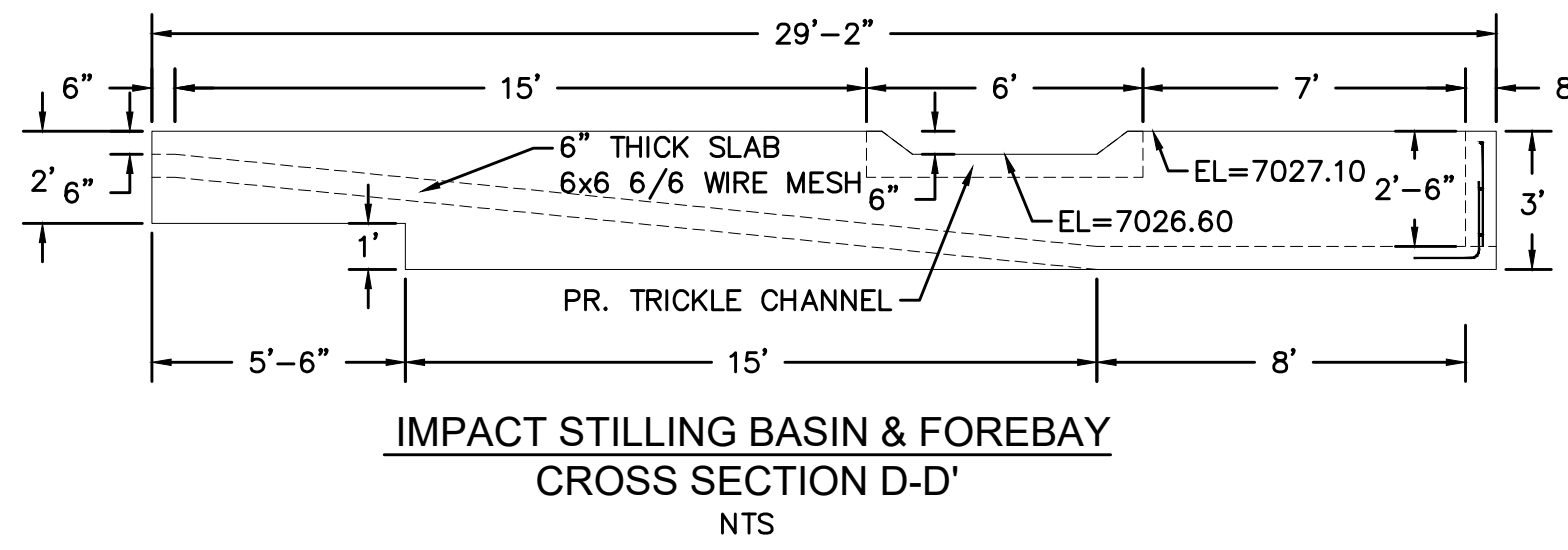
Scale AS SHOWN  
 16 of 23



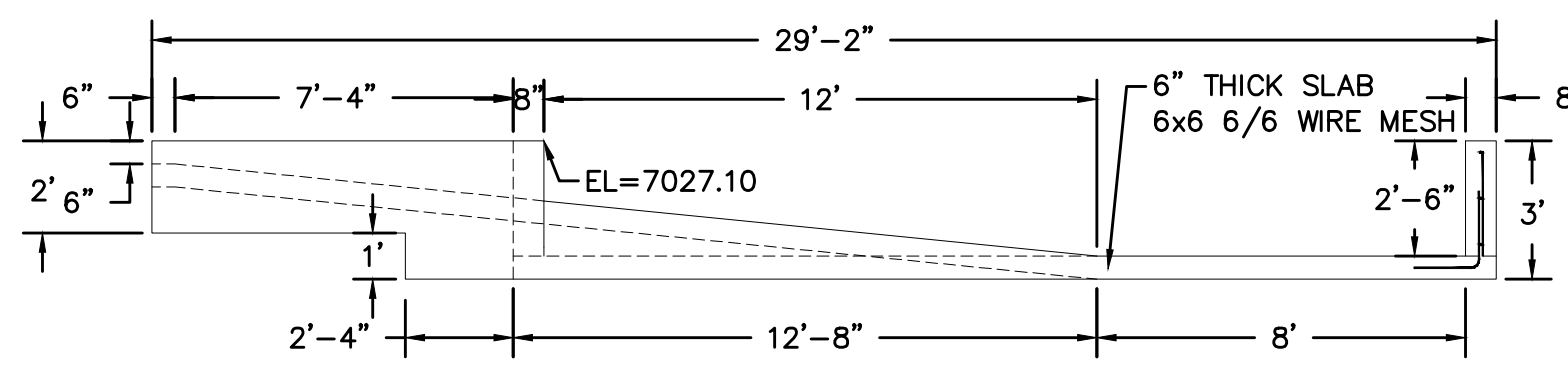




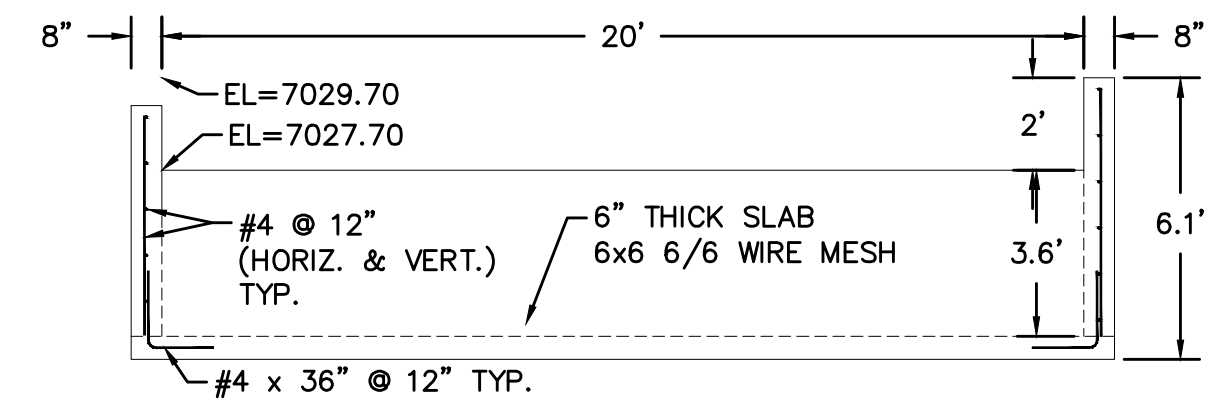
**IMPACT STILLING BASIN & FOREBAY**  
PLAN VIEW  
NTS



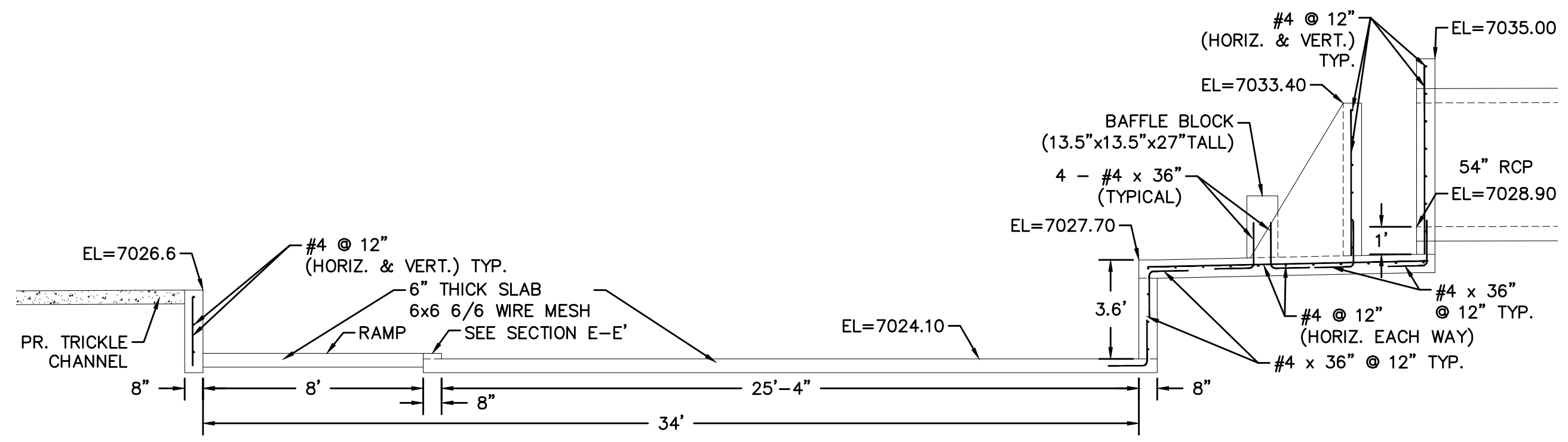
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CROSS SECTION D-D'  
NTS



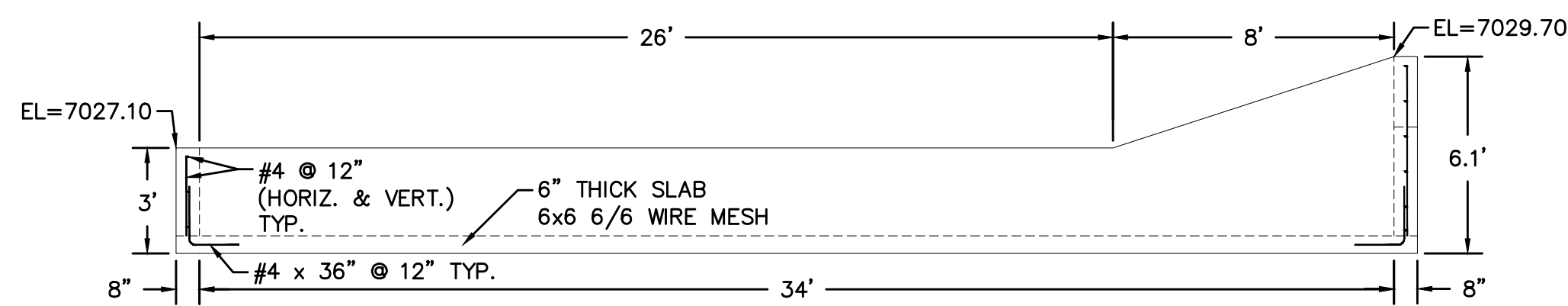
**IMPACT STILLING BASIN & FOREBAY**  
CROSS SECTION E-E'  
NTS



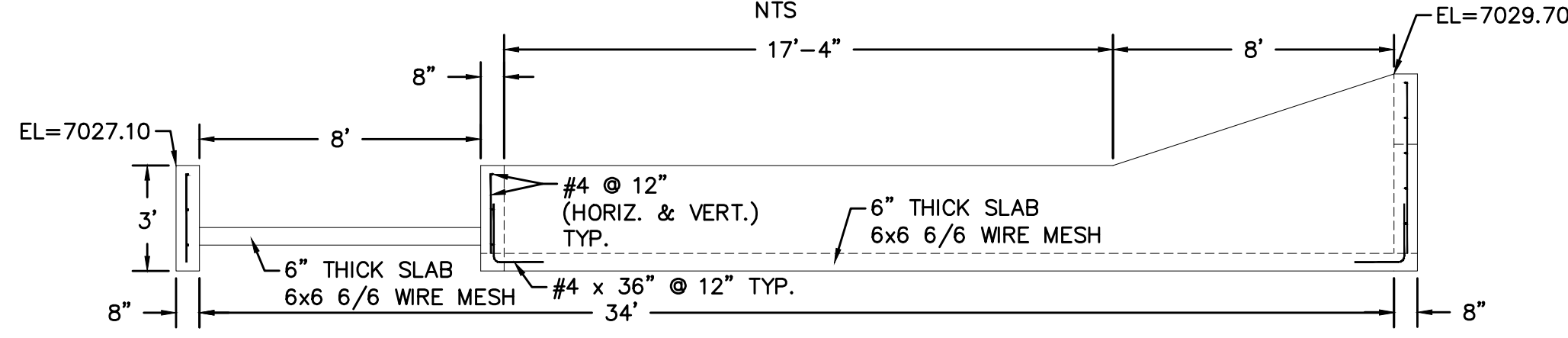
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CROSS SECTION F-F'  
NTS



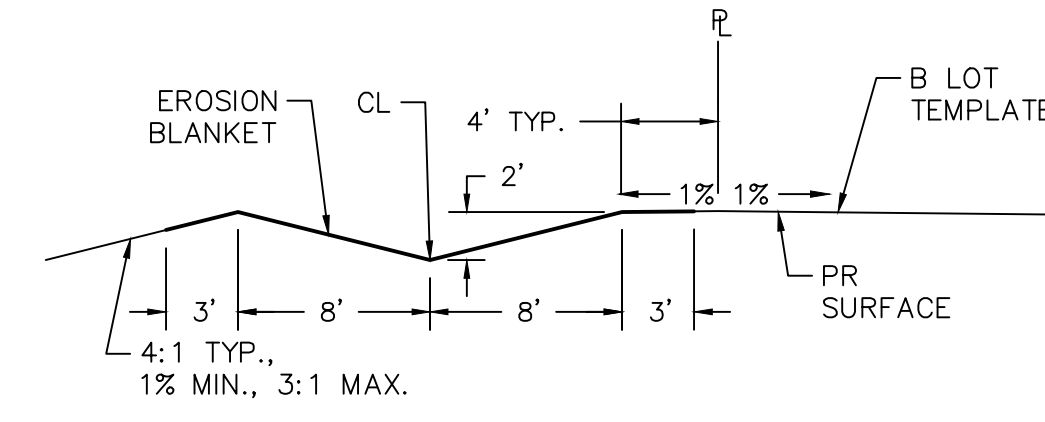
**IMPACT STILLING BASIN & FOREBAY**  
CROSS SECTION A-A'  
NTS



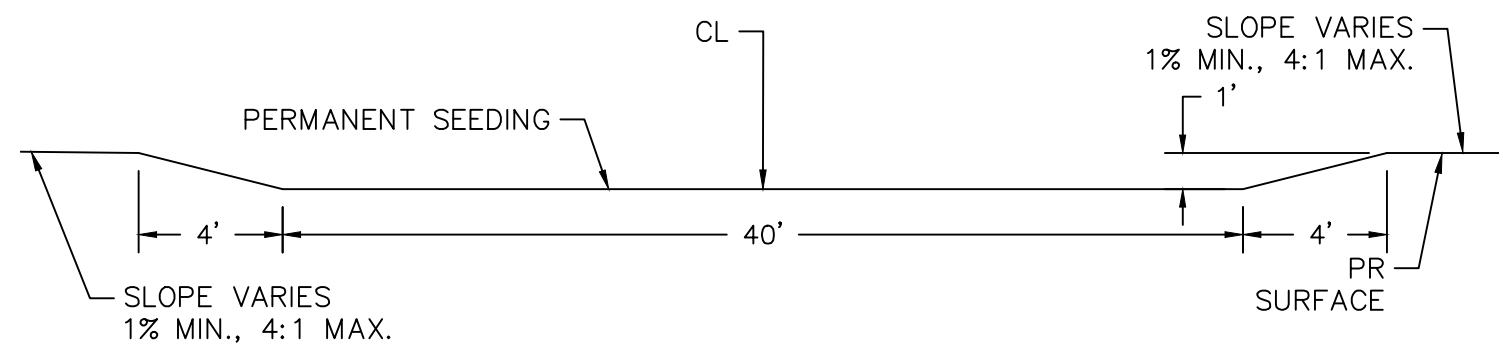
**IMPACT STILLING BASIN & FOREBAY**  
CROSS SECTION B-B'  
NTS



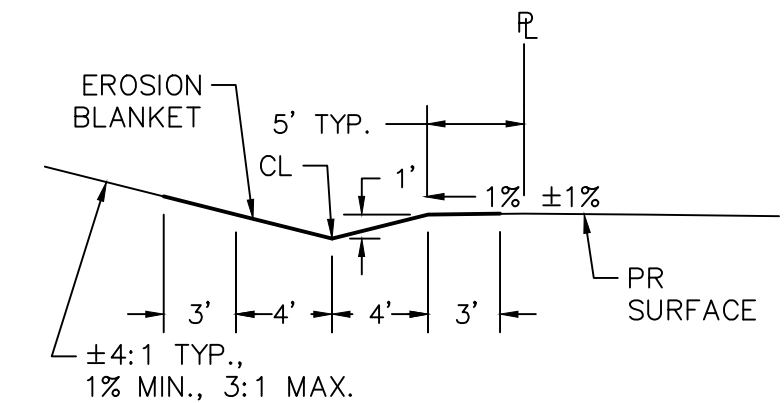
**IMPACT STILLING BASIN & FOREBAY**  
CROSS SECTION C-C'  
NTS



**DETAIL A-A'**  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS

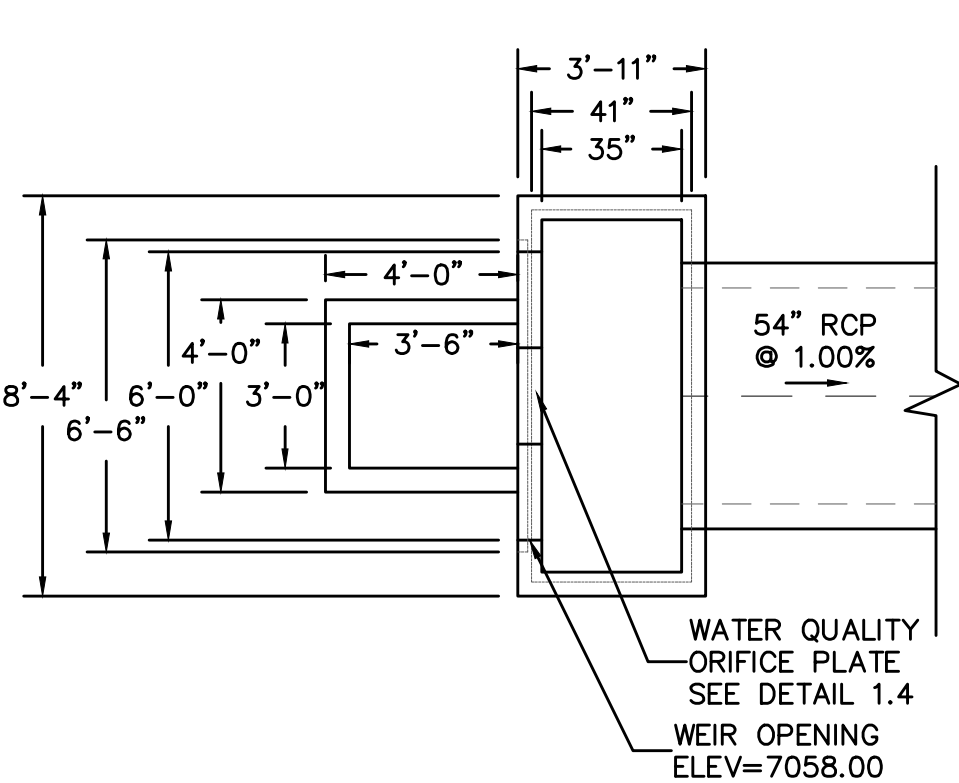


**DETAIL B-B'**  
CROSS SECTION  
NTS

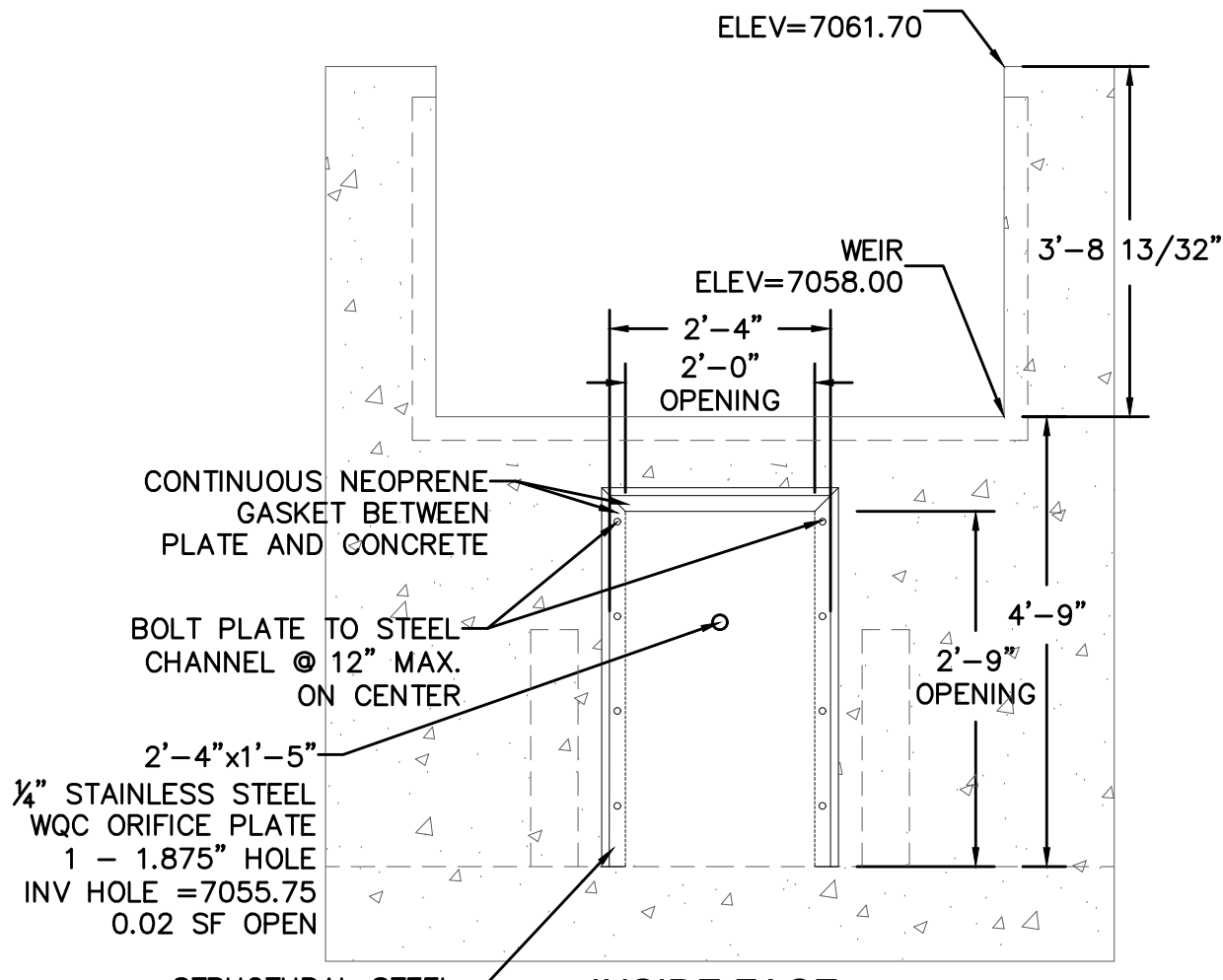


**DETAIL C-C'**  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS

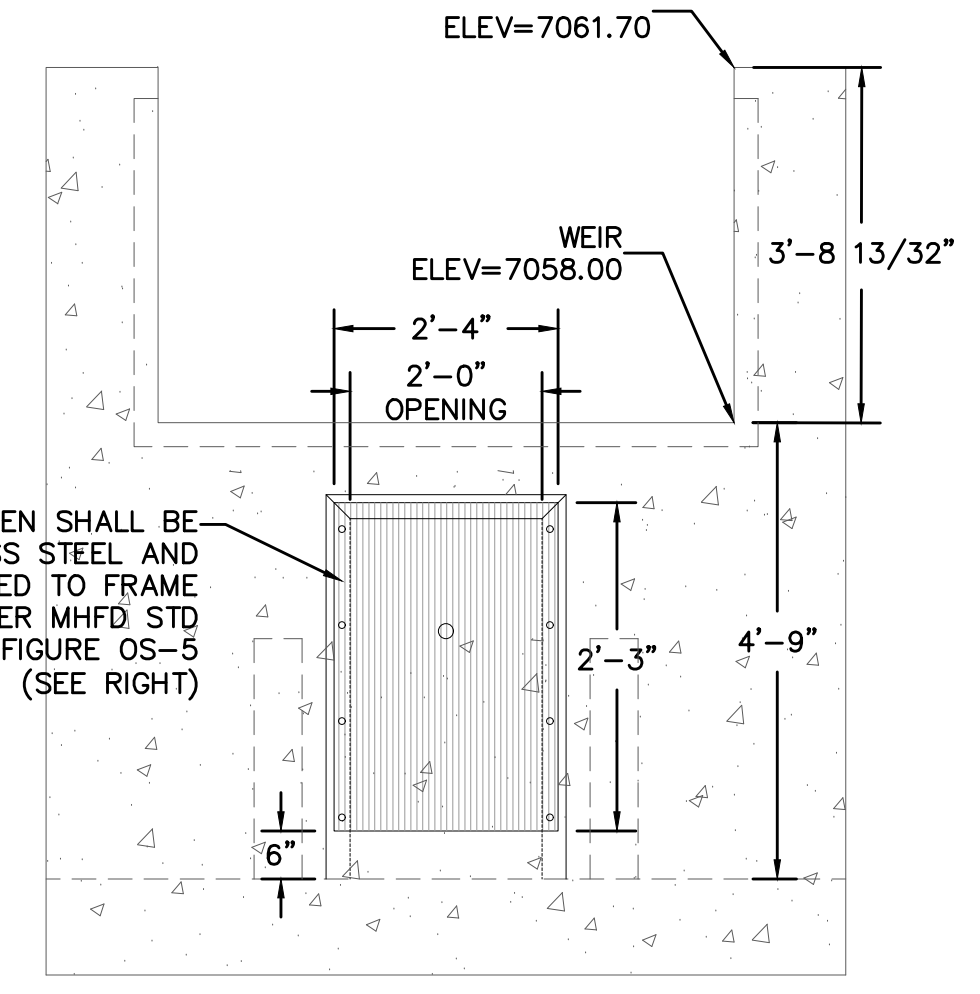
Date		Appr.		Date		Invt.		Date	
No.		Revisions		No.		Revisions		No.	
1		2		3		4		5	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457									
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Drawn by	LOG	Checked by	TAK	Date	MAY 2022				
Scale	AS SHOWN			17	of 23				



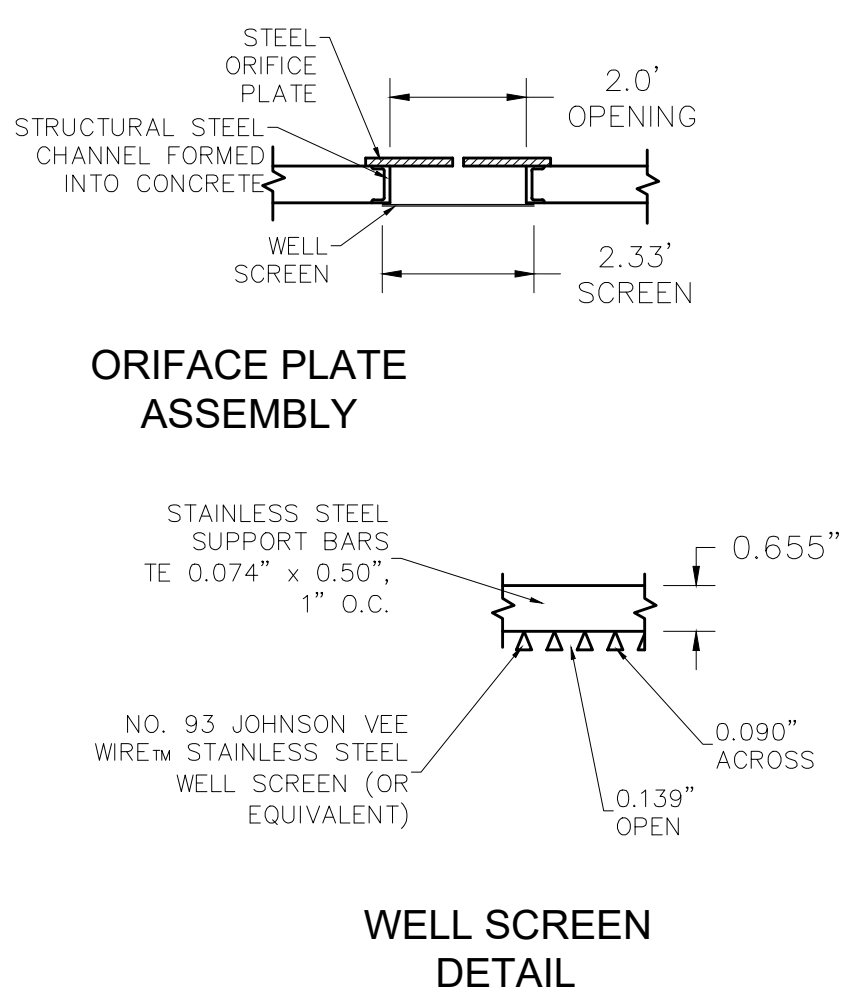
**DETAIL 1.1**  
OUTLET STRUCTURE  
PLAN VIEW  
NTS



**DETAIL 1.4**  
INSIDE FACE  
ORIFICE PLATE  
NTS



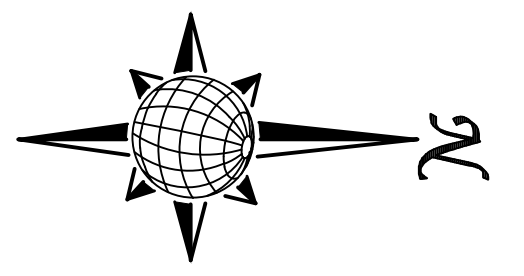
**DETAIL 1.4**  
OUTSIDE FACE  
WELL SCREEN  
NTS



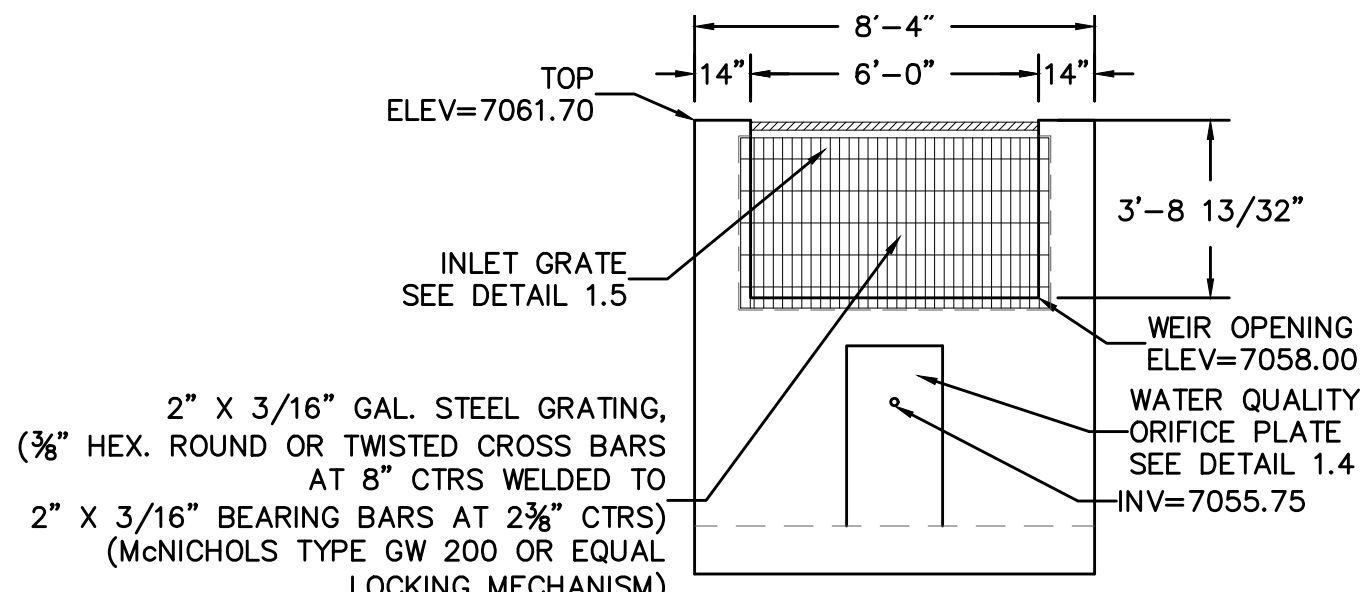
**ORIFACE PLATE ASSEMBLY**

**WELL SCREEN DETAIL**

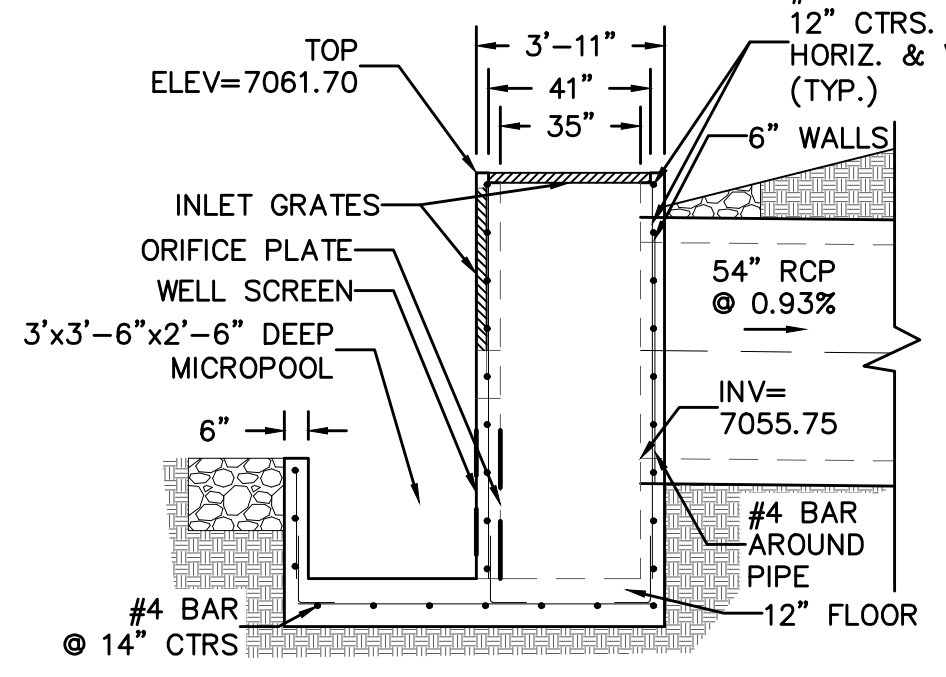
**TWO WORKING DAYS BEFORE YOU DIG CALL 811**  
OR UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)



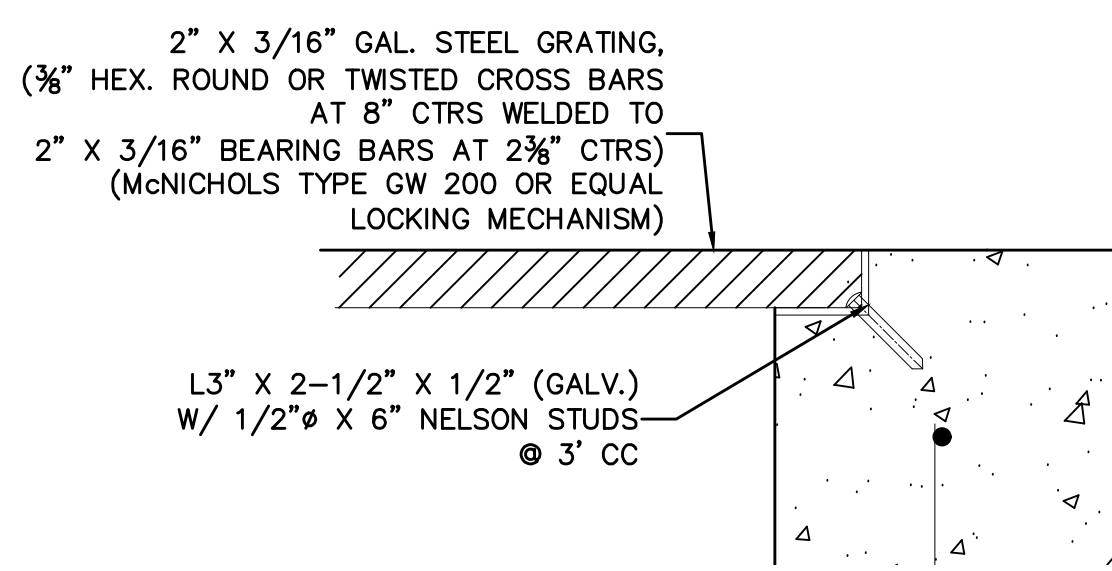
**GRAPHIC SCALE**  
( IN FEET )  
1 inch = 50 ft.  
1 inch = 5 ft. VERTICAL



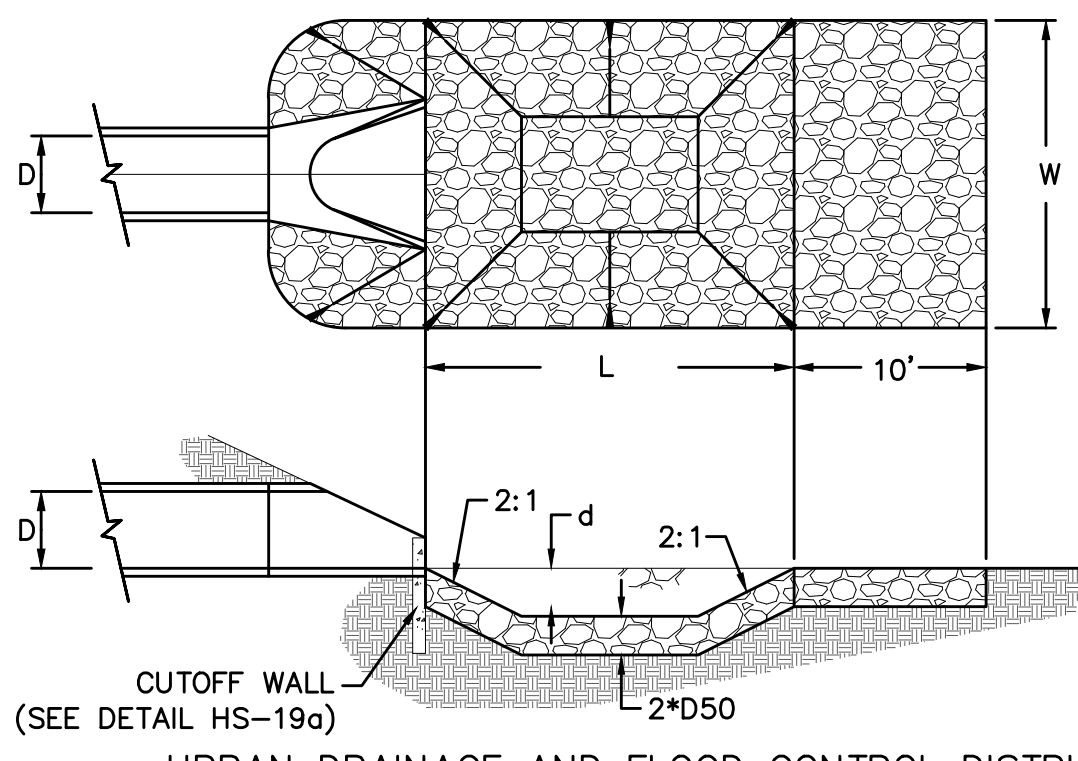
**DETAIL 1.2**  
OUTLET STRUCTURE  
FRONT VIEW  
NTS



**DETAIL 1.3**  
OUTLET STRUCTURE  
CROSS SECTION  
NTS



**DETAIL 1.5**  
GRATE  
NTS

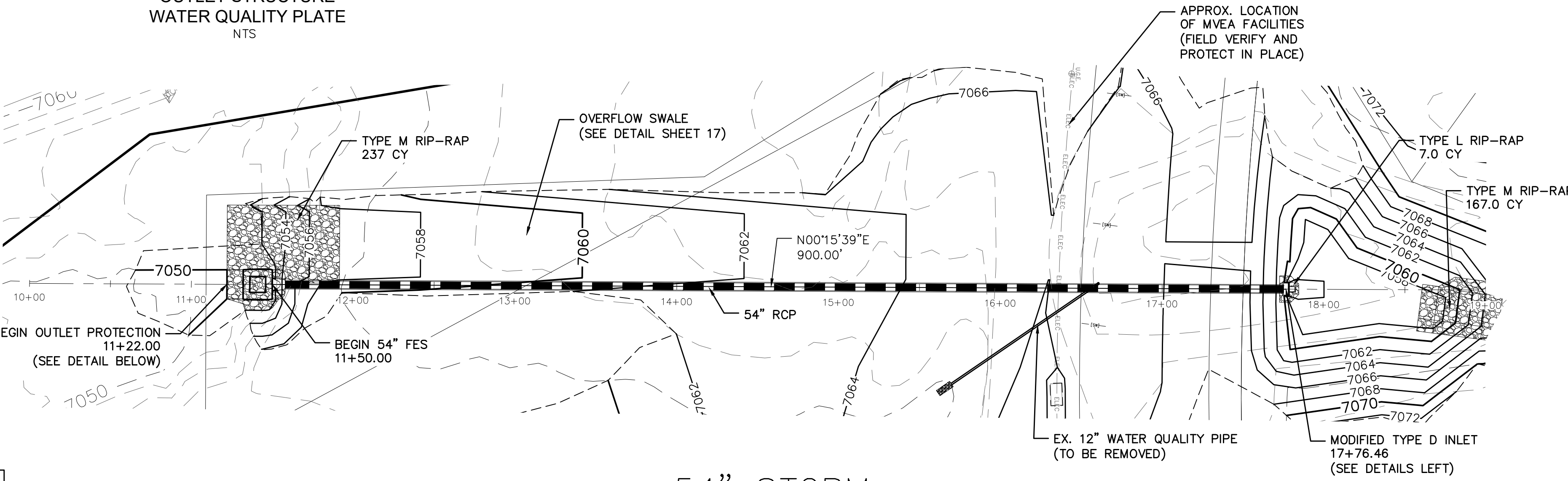


**URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED\*)**  
Figure HS-19. Culvert and Outlet Erosion Protection  
\*RIP RAP RECTANGULAR POOL

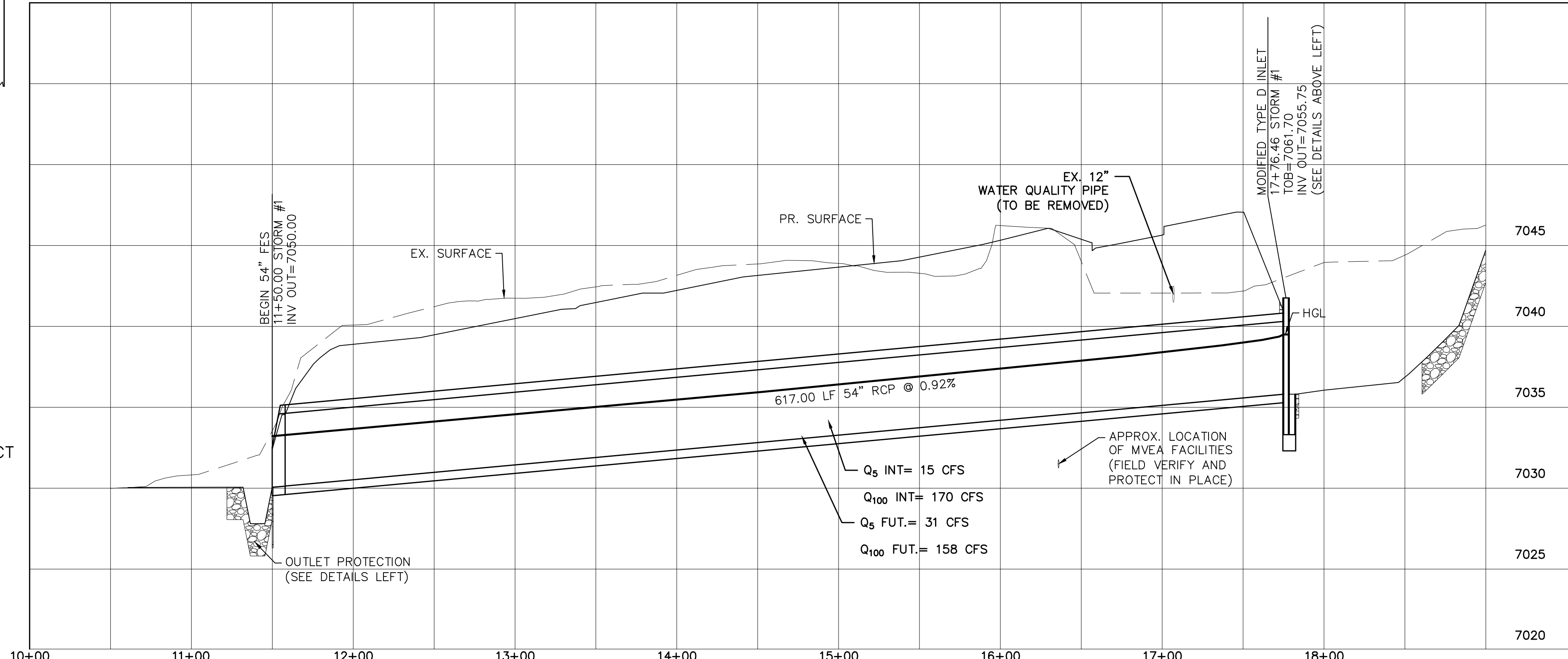
PIPE OUTLET	L	W	d	TYPE	D <sub>50</sub>	CY	NOTES
54"	18.0	18.0	2.0	M	1.00'	43.0	SEE BELOW

**OS-1**  
OUTLET PROTECTION DETAIL  
NTS

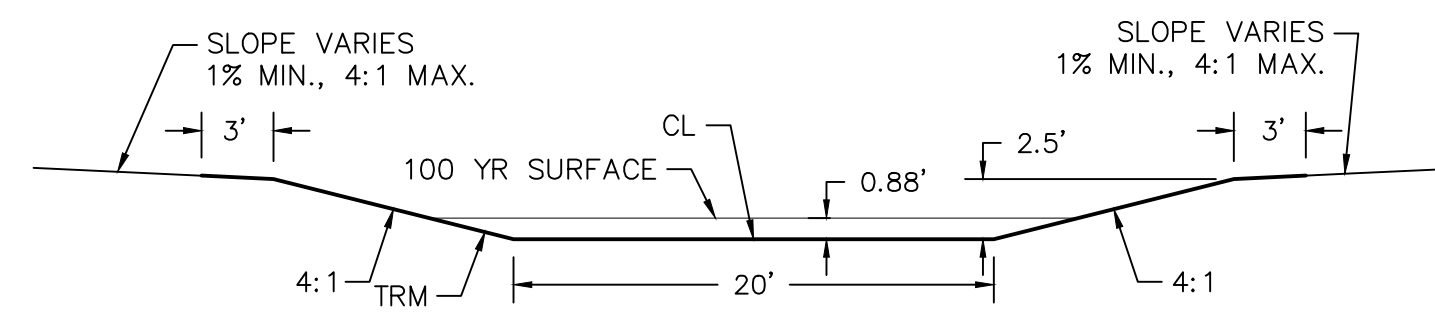
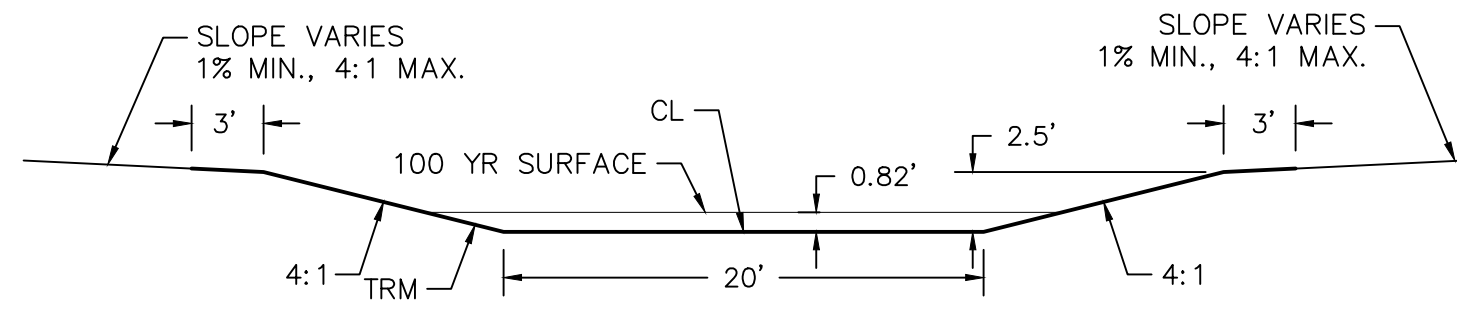
- NOTES:  
1. Flared end section required at RCP outlets.  
2. Provide joint fasteners for flared end sections. OS-1



**54" STORM**



Date	Appr.	Date	Revis.	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
<b>MERIDIAN RANCH</b>				
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MAY 2022
Scale	18	of	23	
9020	9025	9030	9035	9040
9045				

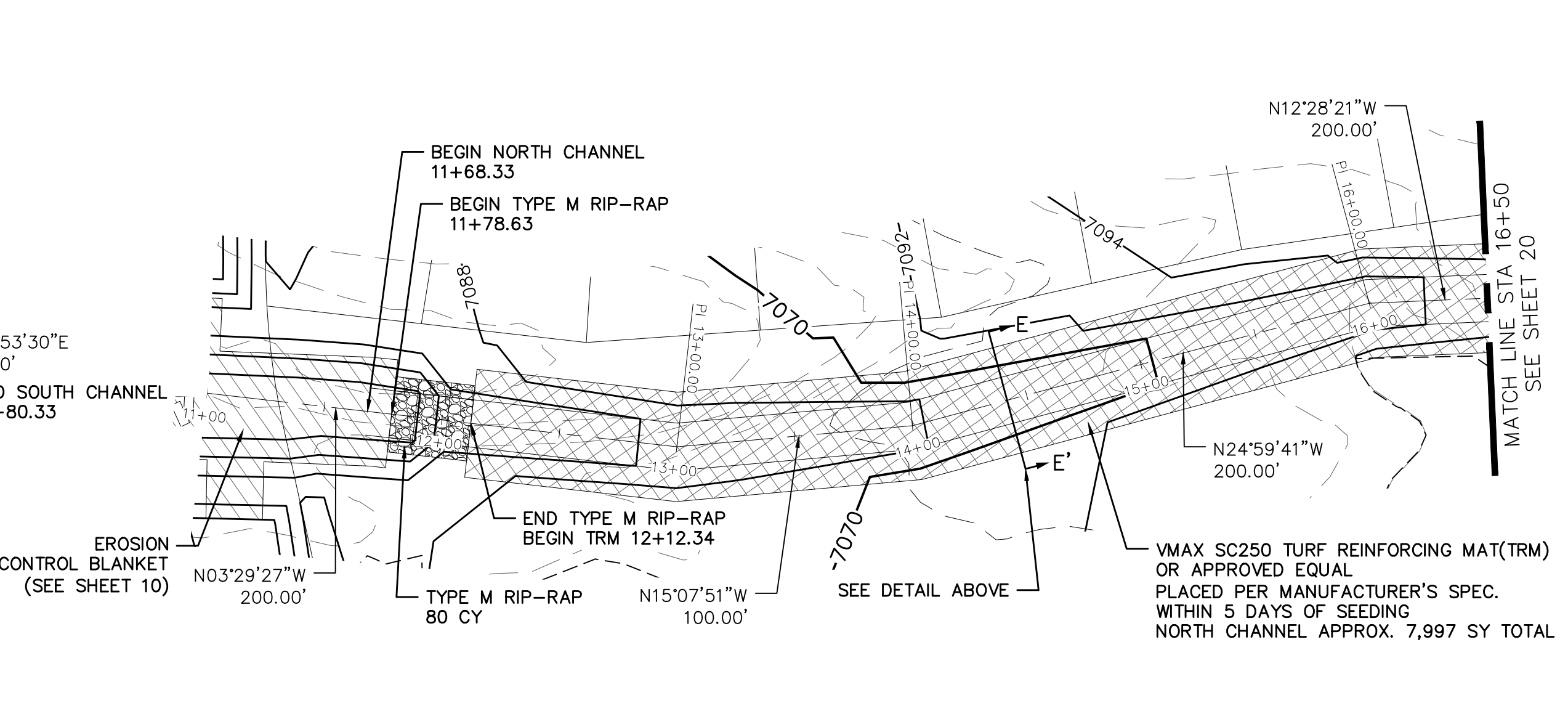
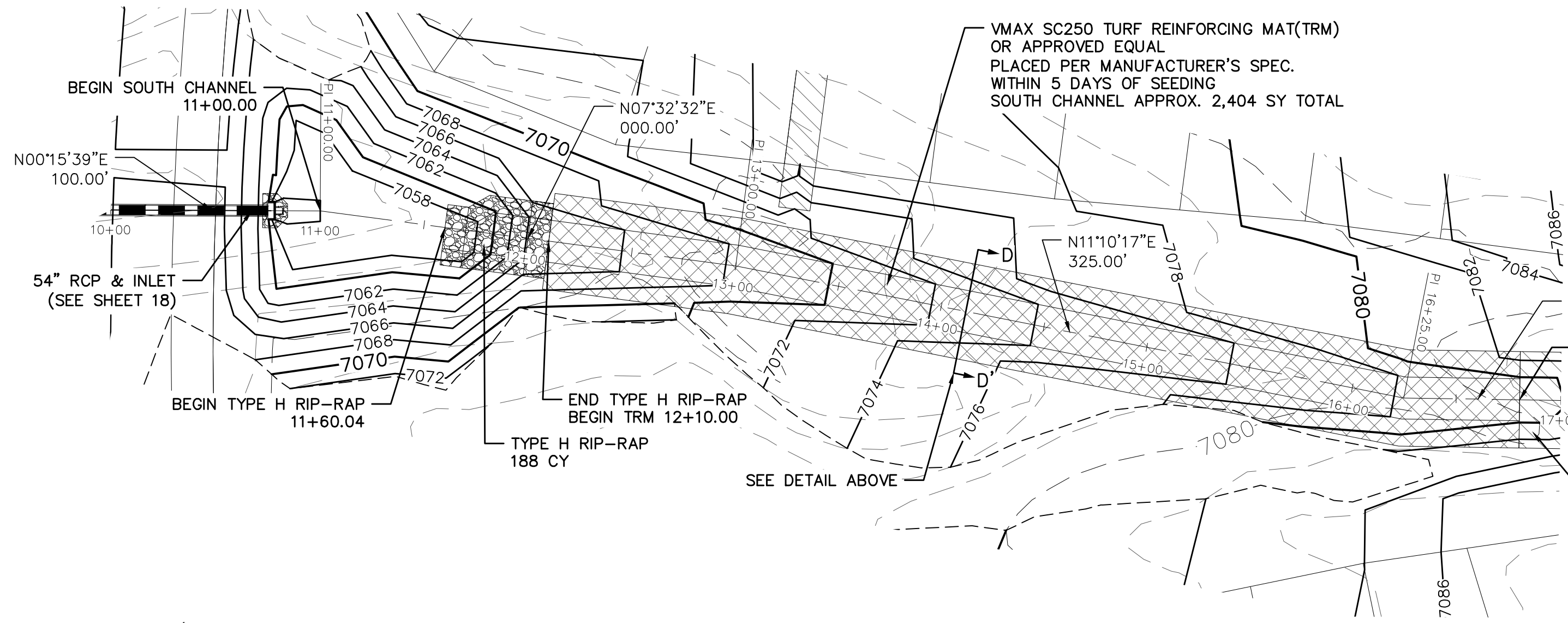


**TWO WORKING DAYS  
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(SEE COVER FOR LIST OF UTILITY CONTACTS)

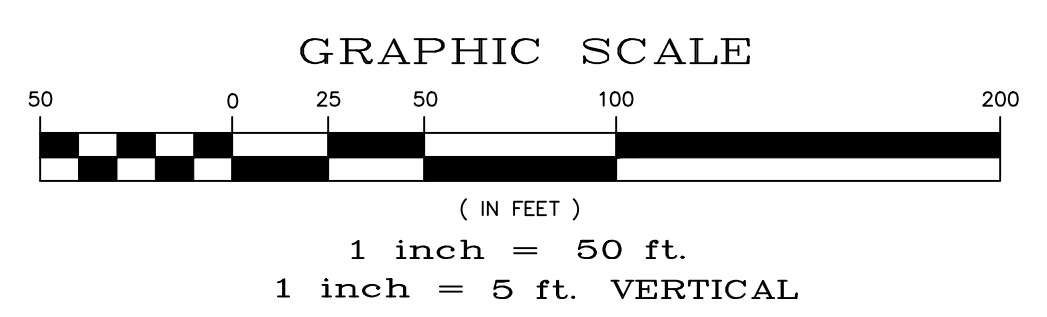
**DETAIL D-D'  
TURF REINFORCEMENT MAT  
CROSS SECTION  
NTS**

**DETAIL E-E'  
TURF REINFORCEMENT MAT  
CROSS SECTION  
NTS**



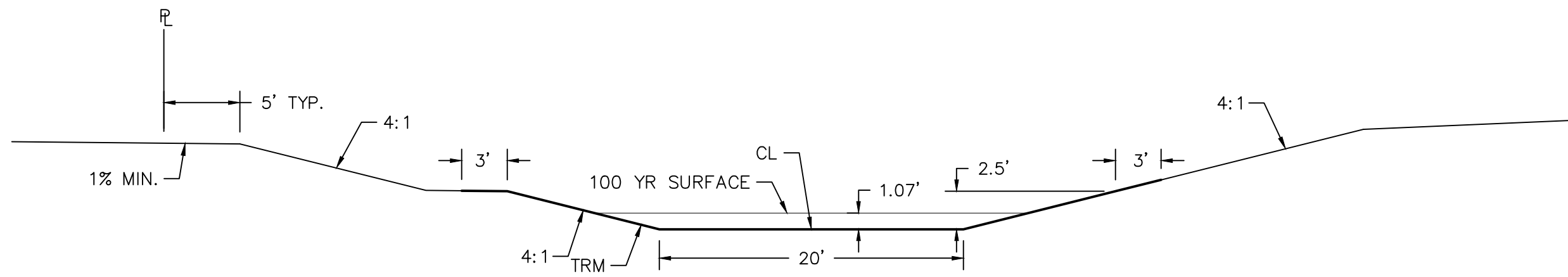
**OPEN SPACE SOUTH CHANNEL**

**OPEN SPACE NORTH CHANNEL**



Station	Channel	Flow	Velocity	Depth	Surface	Notes
7090						
7085						
7080						
7075						
7070						
7065						
7060						
7055						
7050						

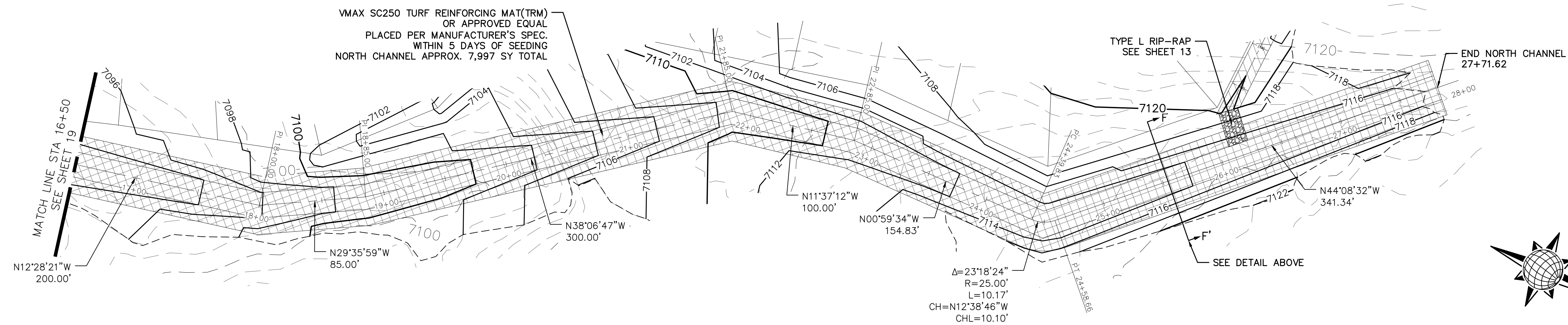
Date	Appr.	Revisions	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
<b>MERIDIAN RANCH</b>			
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET			
Drawn by	LOG	Checked by	TAK
Scale	AS SHOWN	Date	MAY 2022
		19 of 23	



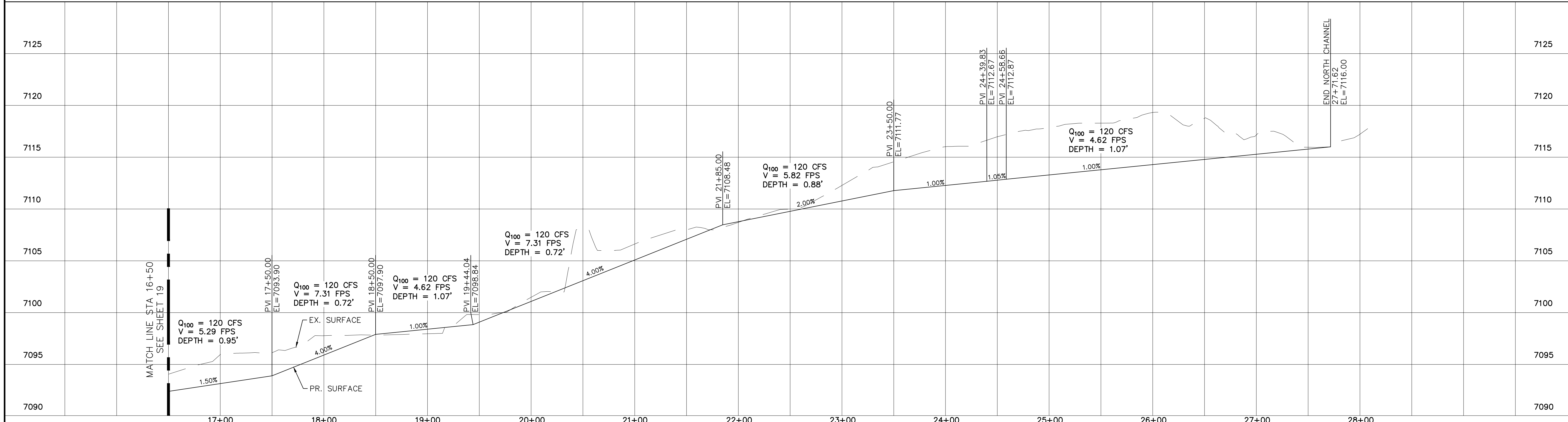
**DETAIL F-F'**  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS

**BEFORE YOU DIG**  
**CALL 811**

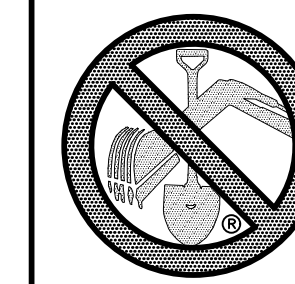
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)



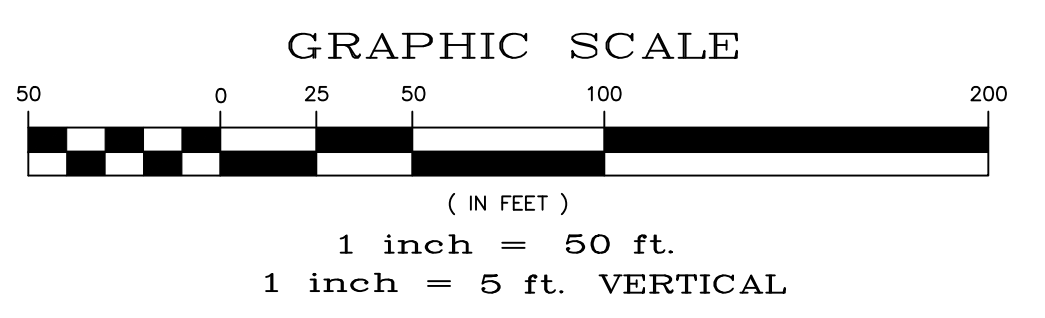
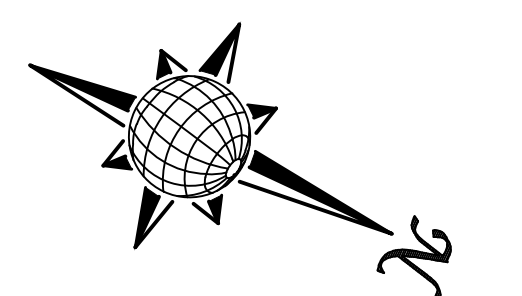
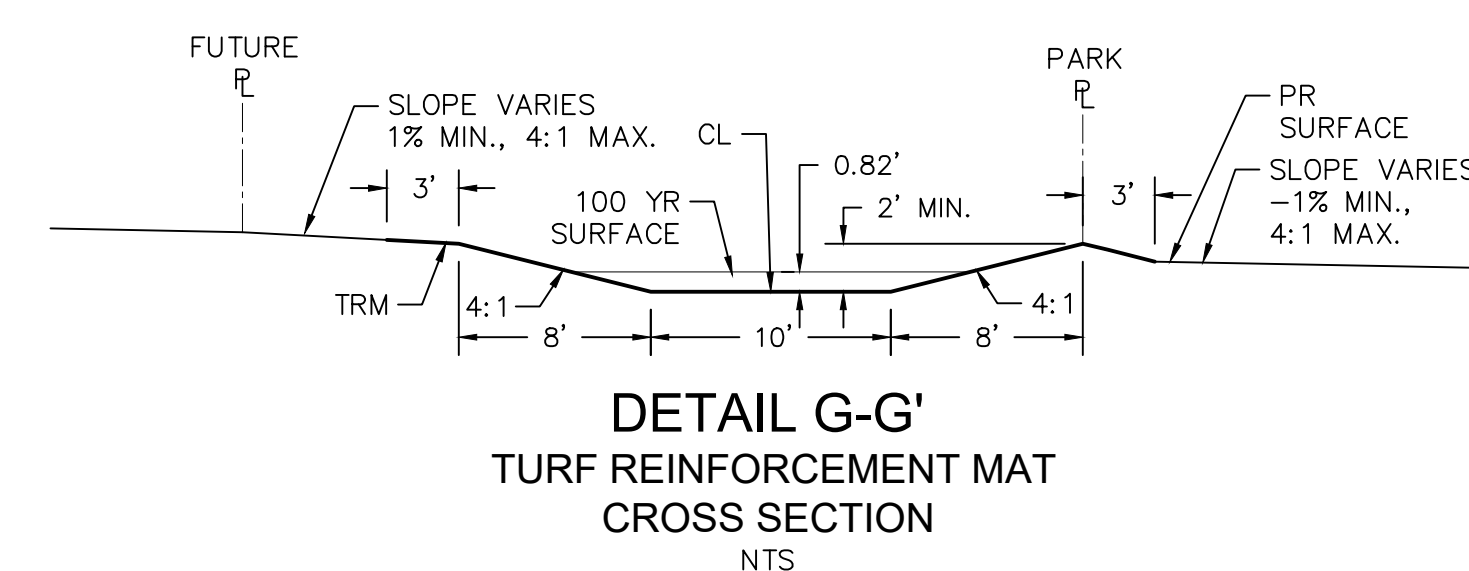
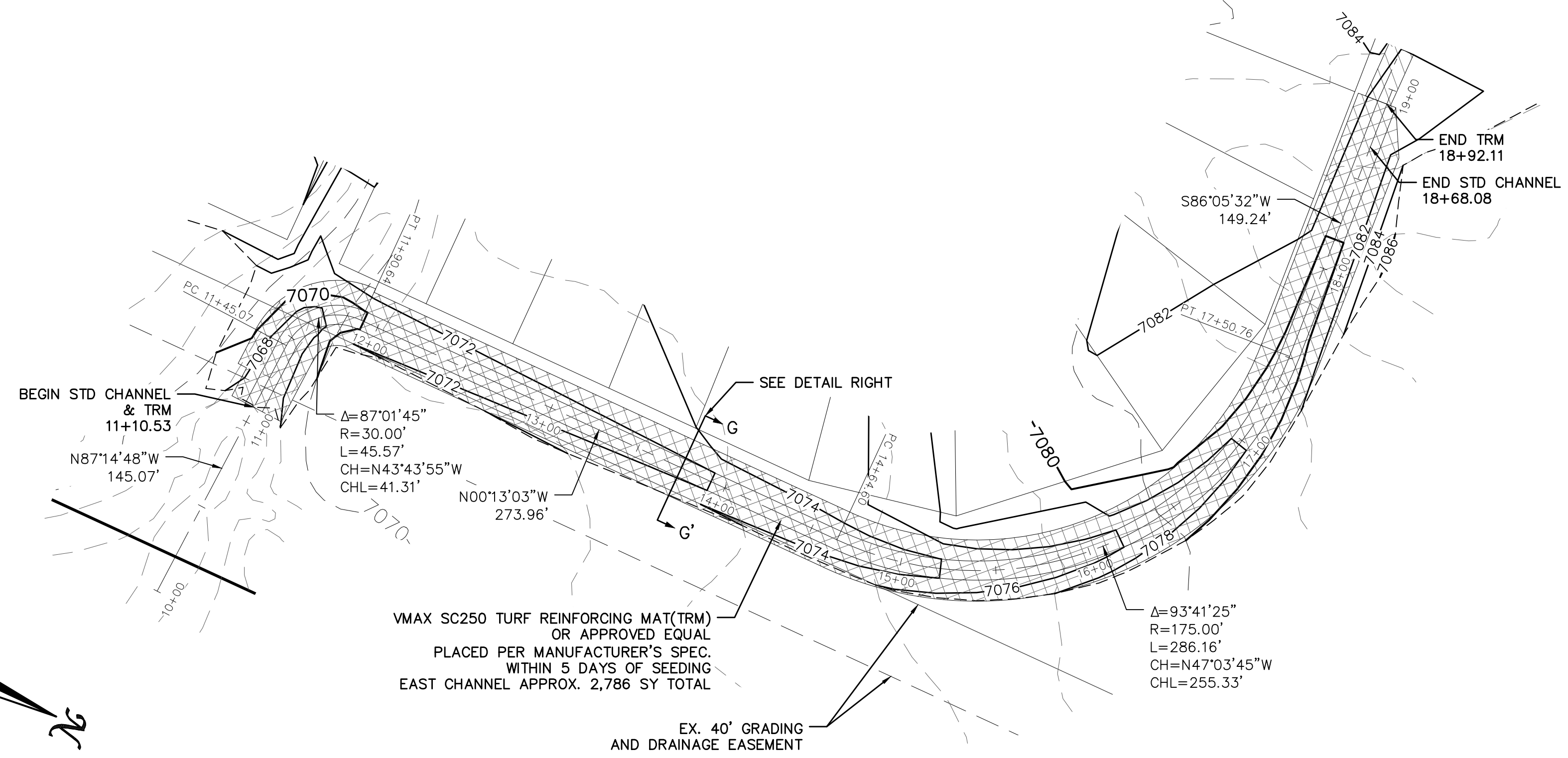
**OPEN SPACE NORTH CHANNEL**



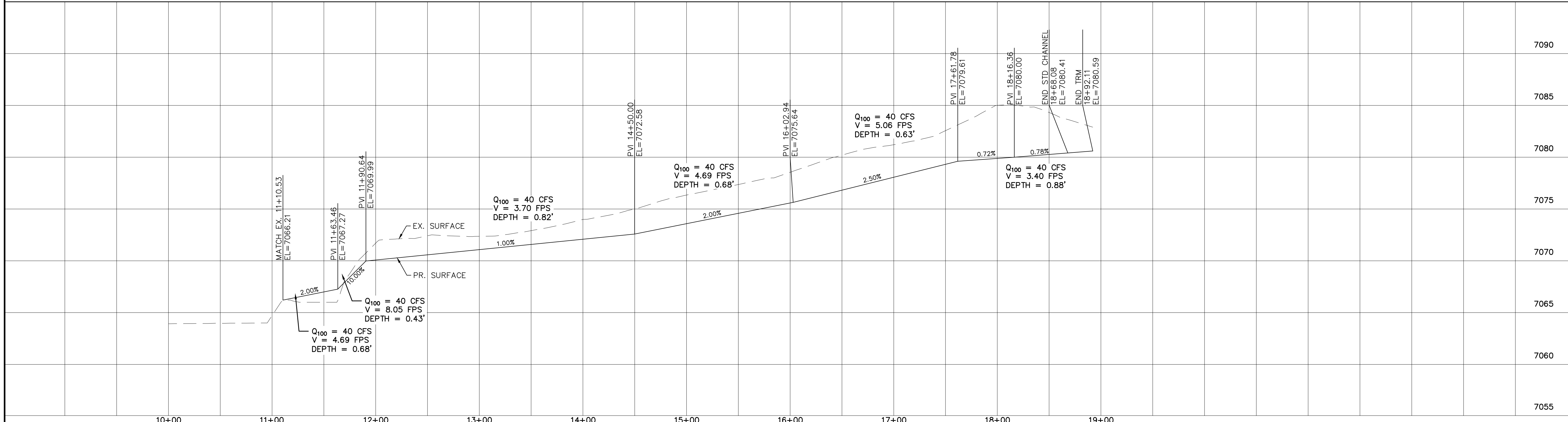
Date		Appr.	
Date		Revis	
No.		No.	
1		2	
3		4	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
 <b>MERIDIAN RANCH</b>			
<b>PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET</b>			
Drawn by	LOG	Checked by	TAK
Scale	AS SHOWN	Date	MAY 2022
	20	of	23
PCD PROJECT NO. EPG222			



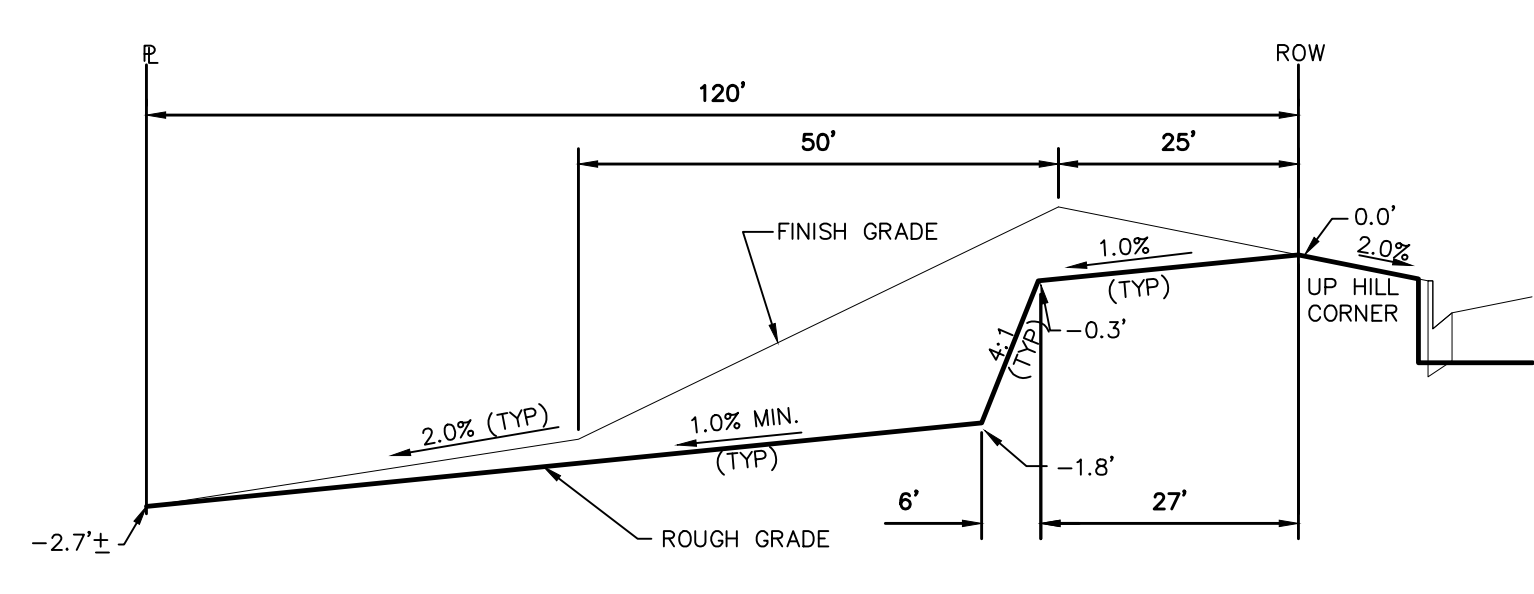
TWO WORKING DAYS  
**BEFORE YOU DIG**  
**CALL 811**  
 OR  
 UTILITY NOTIFICATION CENTER OF COLORADO  
 1-800-922-1987  
 (SEE COVER FOR LIST OF UTILITY CONTACTS)



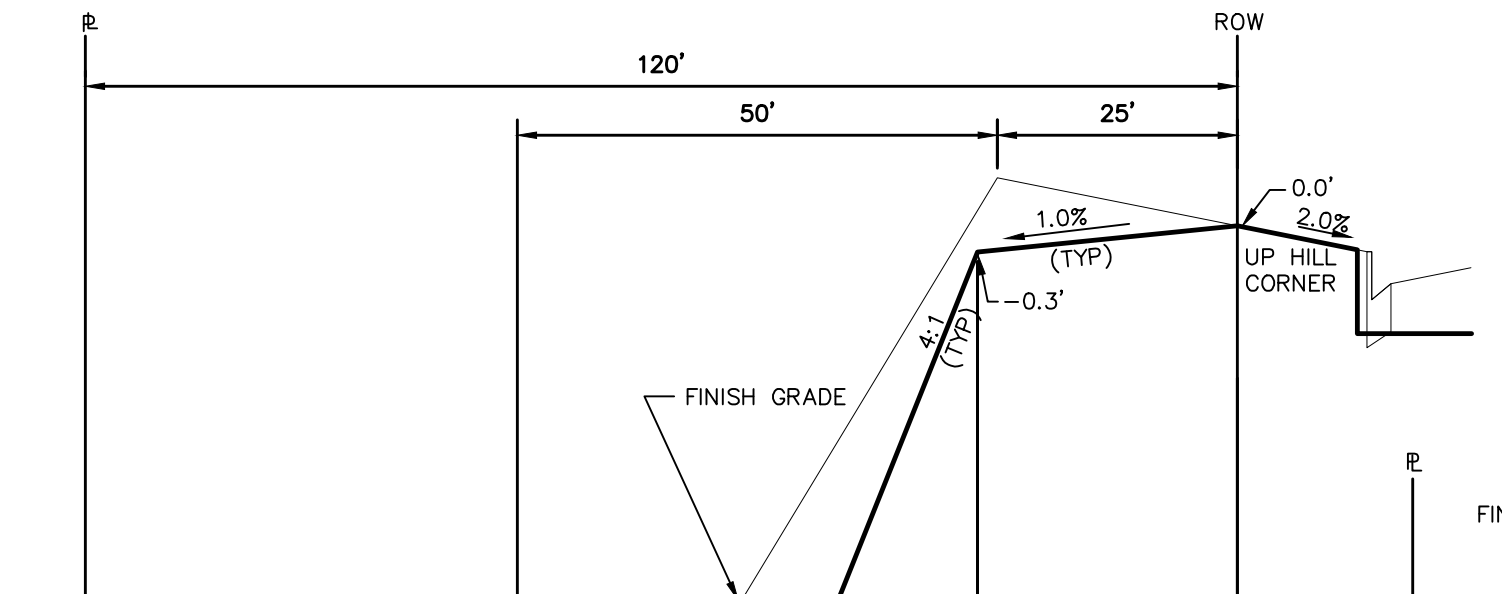
OPEN SPACE EAST CHANNEL



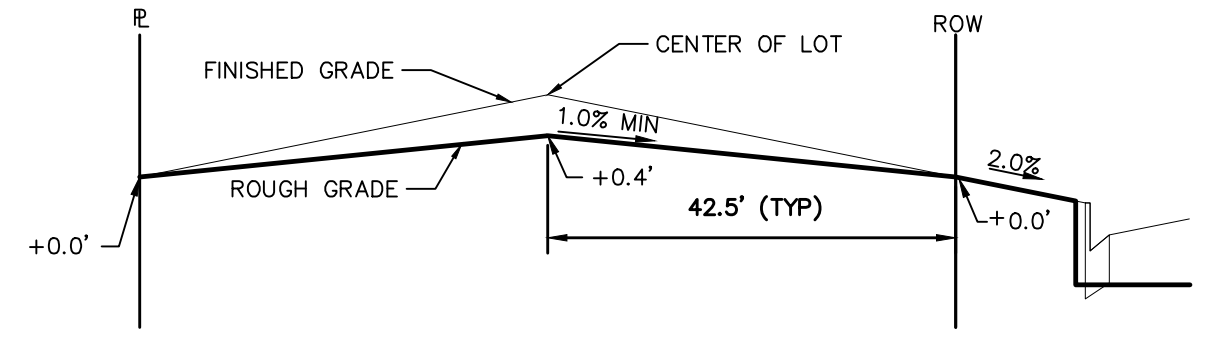
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Appr.		Appr.		Appr.	
Revisions		Revisions		Revisions	
No.		No.		No.	
1		2		3	
4					
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
 <b>MERIDIAN RANCH</b>					
<b>PREDEVELOPMENT GRADING      ROLLING HILLS RANCH NORTH      ROUGH GRADING AND EROSION      CONTROL PLAN      DETAIL SHEET</b>					
Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK
				Date	MAY 2022
	21 of 23				
PCD PROJECT NO. EPG222					



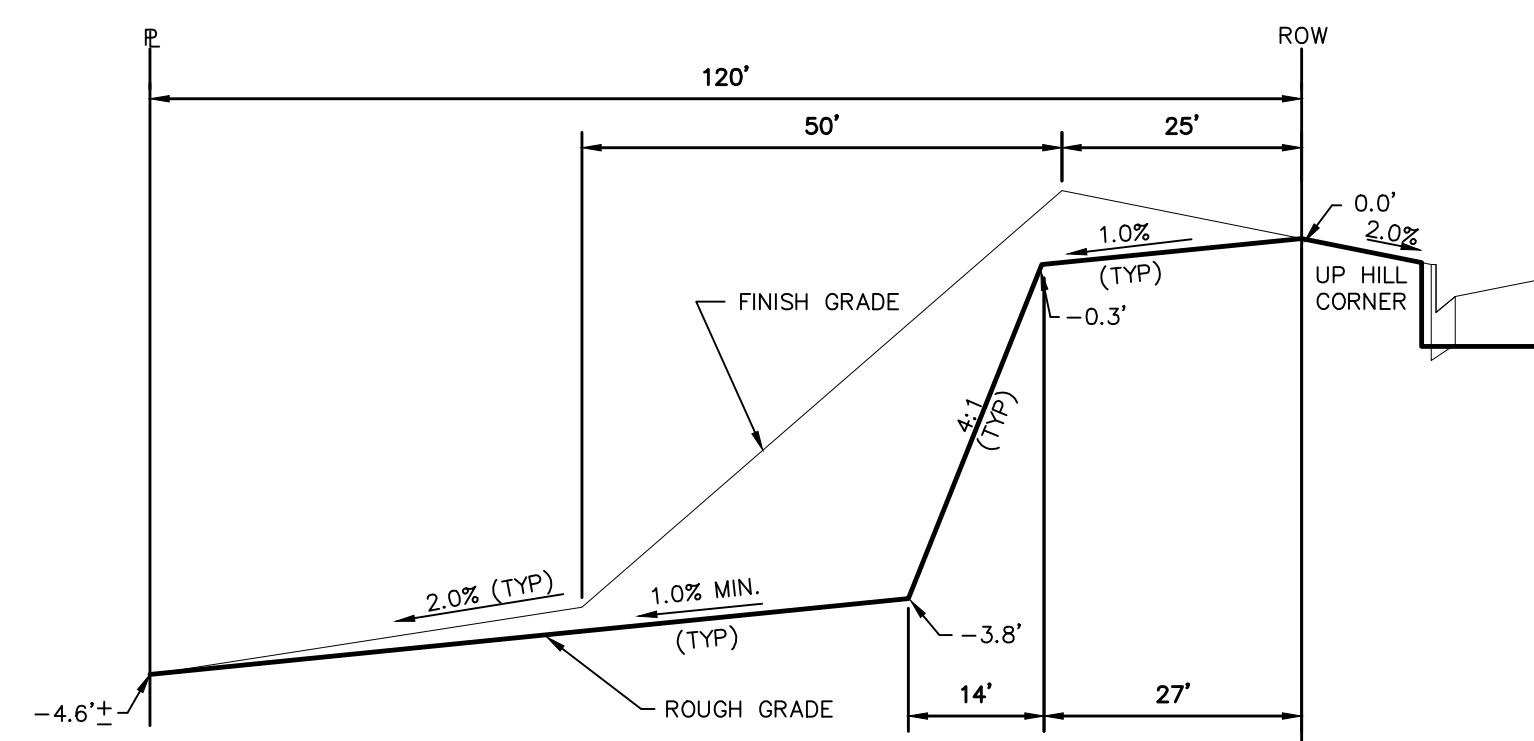
TYPICAL LOT "G2" TEMPLATES  
NTS



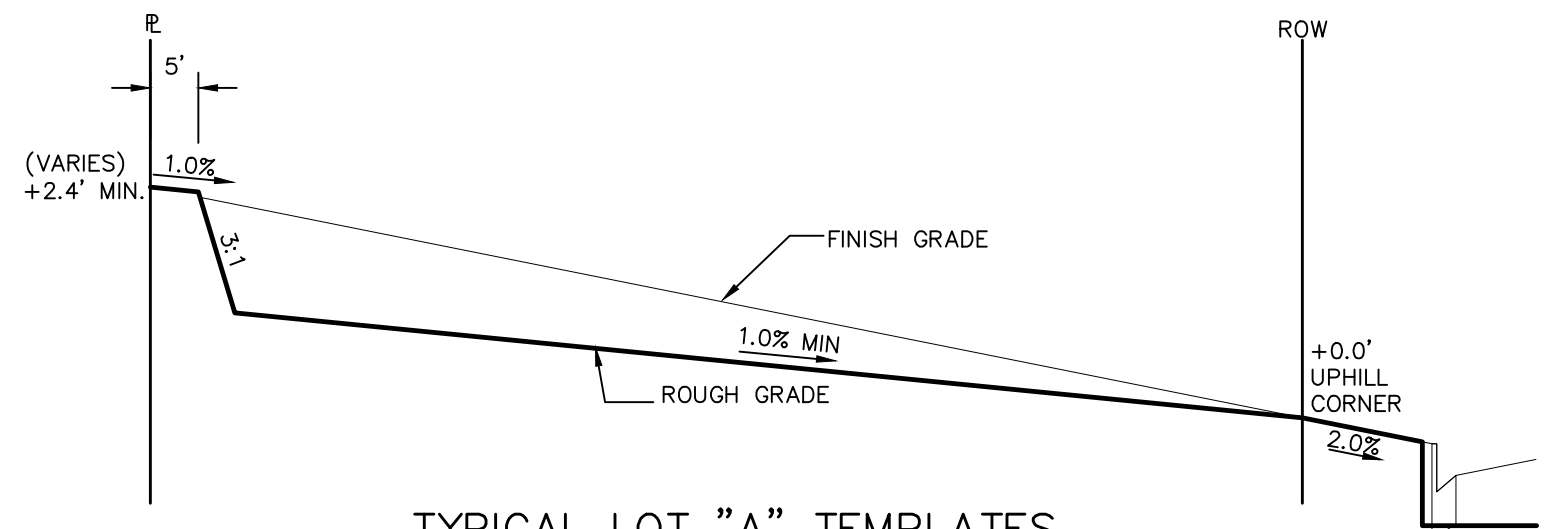
TYPICAL LOT "W8" TEMPLATES  
NTS



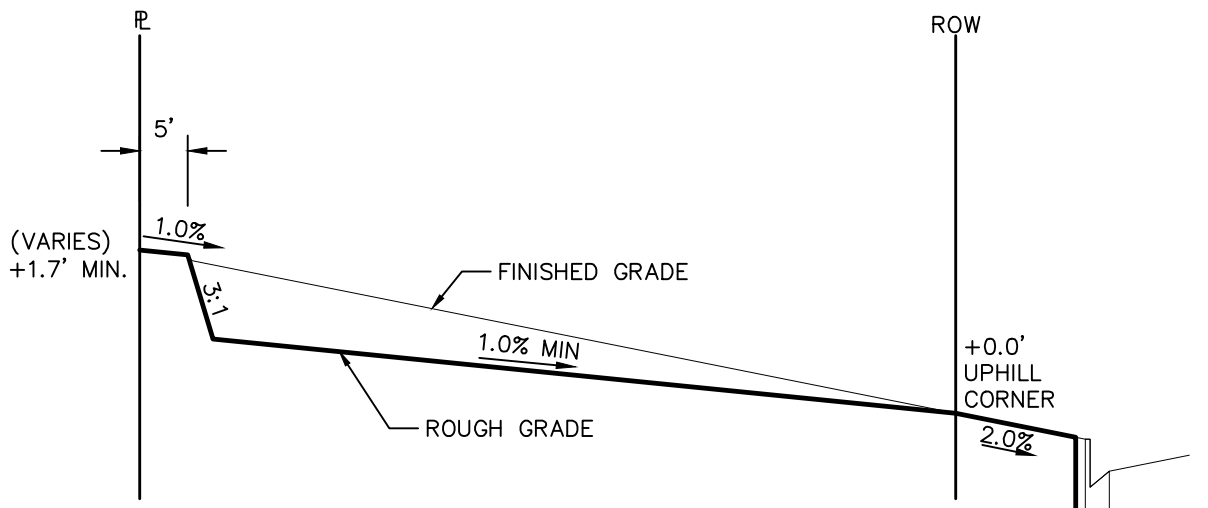
TYPICAL LOT "B" TEMPLATE SOUTH REX  
NTS



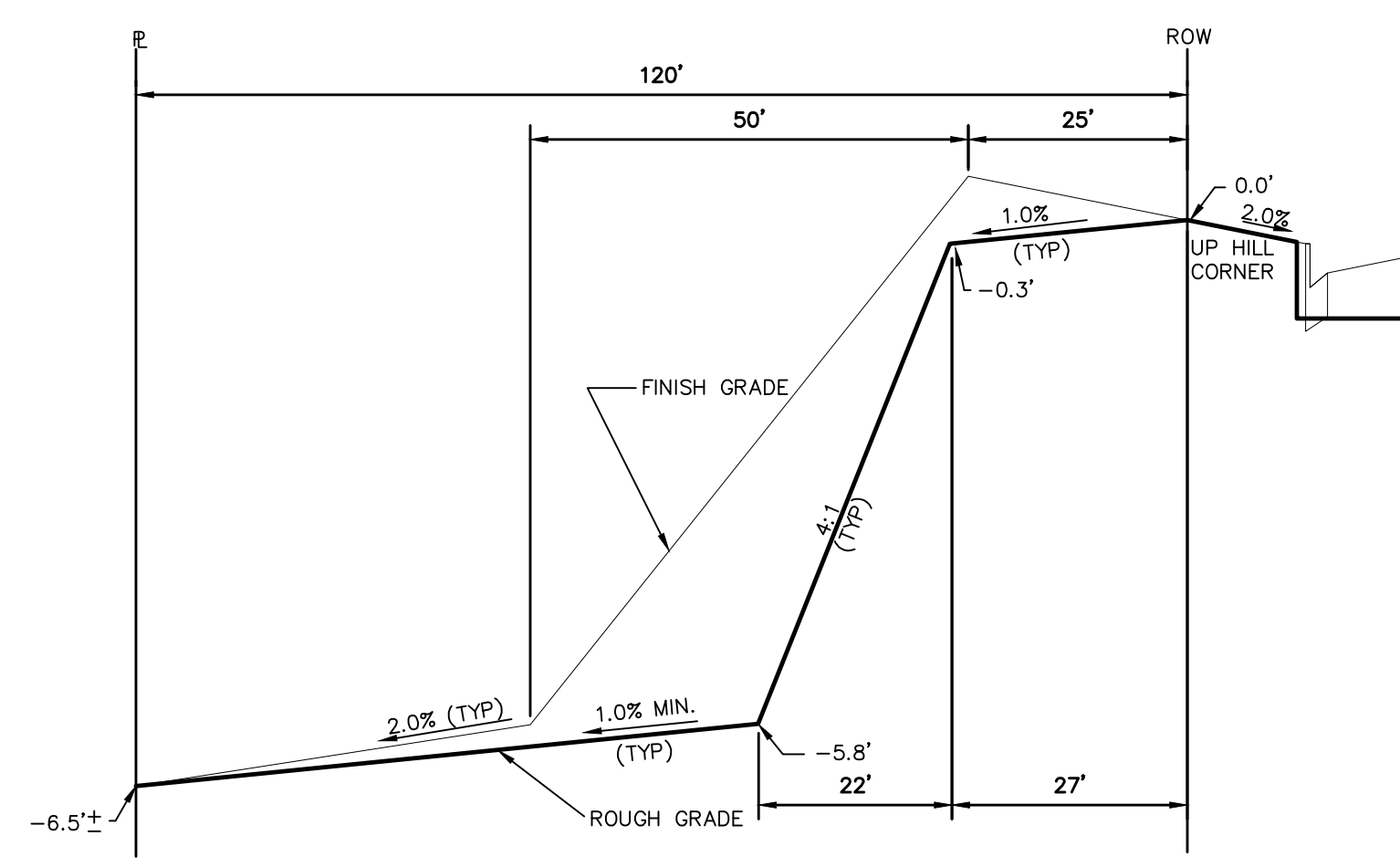
TYPICAL LOT "G4" TEMPLATES  
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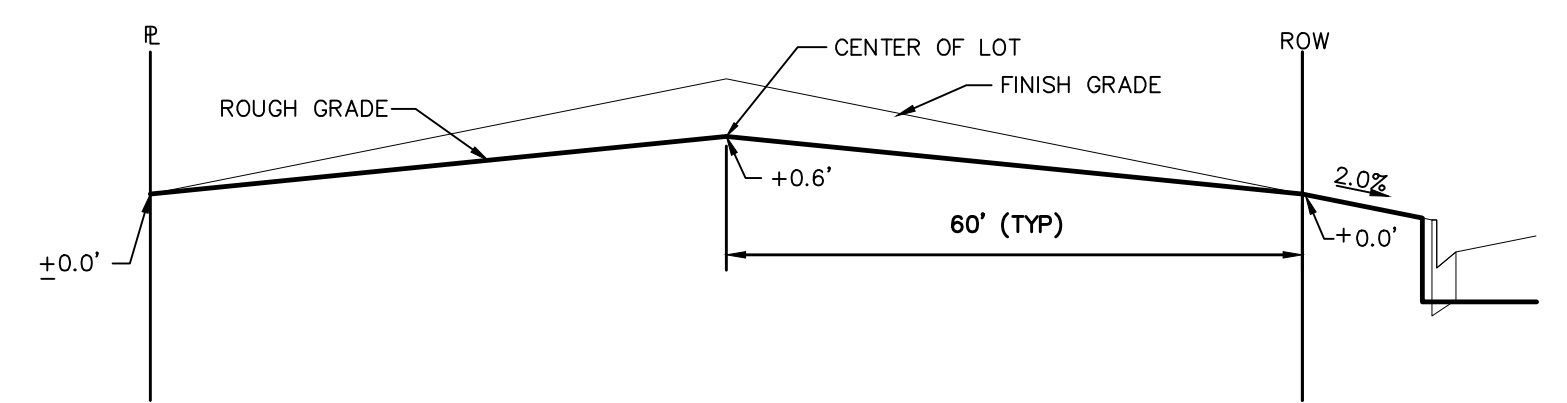
TYPICAL LOT "A" TEMPLATES  
NTS



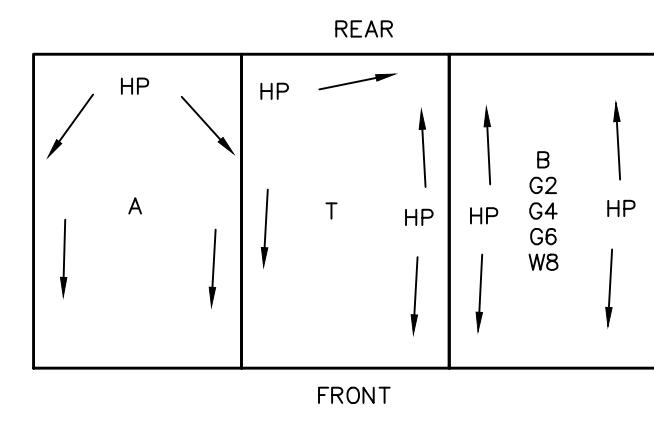
TYPICAL LOT "A" TEMPLATE SOUTH REX  
NTS



TYPICAL LOT "G6" TEMPLATES  
NTS



TYPICAL LOT "B" TEMPLATES  
NTS



TYPICAL DRAINAGE PATTERN  
NTS

**STEPS FOR CONSTRUCTION**

THE ANTICIPATED START FOR THIS PROJECT IS JUNE 2022 WITH AN ANTICIPATED COMPLETION DATE OF AUGUST 2022. 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
- \* SEEDING, BLANKET AND RIP-RAP INSTALL

**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, FILTRES OR APPROVED EQUAL WILL BE PLACED AT ALL ENTRANCES AND EXITS OF DRAINAGE WAYS. STRAW BALES, FILTRES 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 FILTRES 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-SEEDED 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**

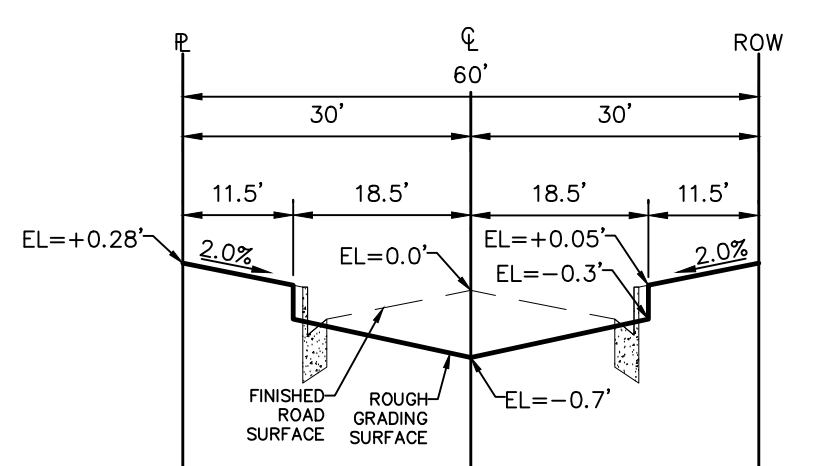
ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING OR BY HYDROMULCHING.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

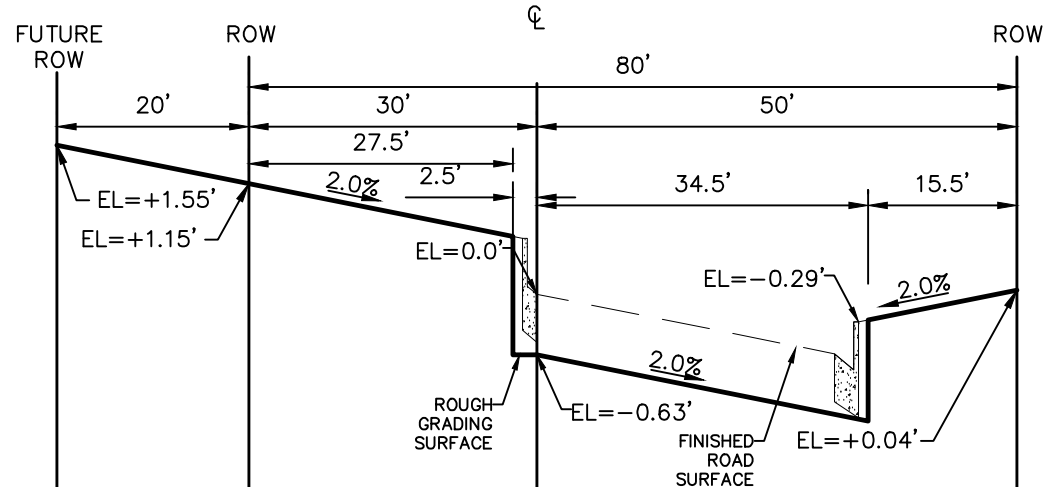
GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
SIDEOATS GRAMA	EL RENO	3.0
WESTERN WHEATGRASS	BARTON	2.5
SLENDER WHEATGRASS	NATIVE	2.0
LITTLE BLUESTERN	PASTURA	2.0
SAND DROPSEED	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0

**NOTE:**

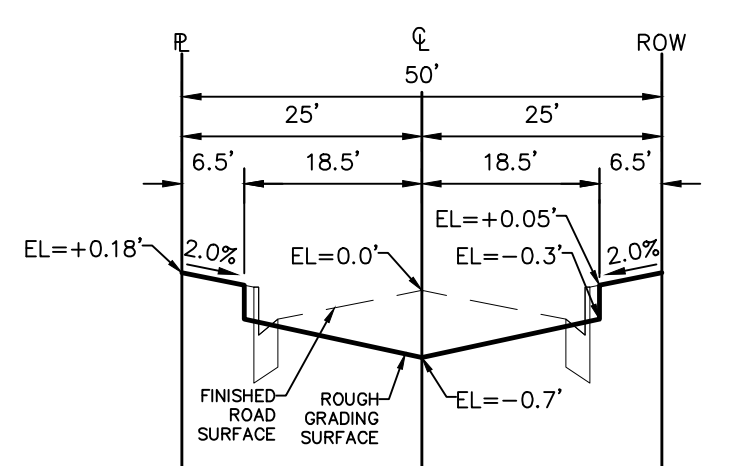
"FINISH GRADE" IN THE TEMPLATES ARE ONLY APPROXIMATE GRADES. ACTUAL FINISHED GRADES WILL VARY DEPENDING ON INDIVIDUAL HOME PLOT PLANS. PLOT PLANS SHALL CLOSELY FOLLOW THE FINISH GRADE PATTERNS SHOWN IN THE TEMPLATES WITHOUT ADVERSELY AFFECTING THE GRADES AND DRAINAGE PATTERNS OF NEIGHBORING LOTS OR TRACTS.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

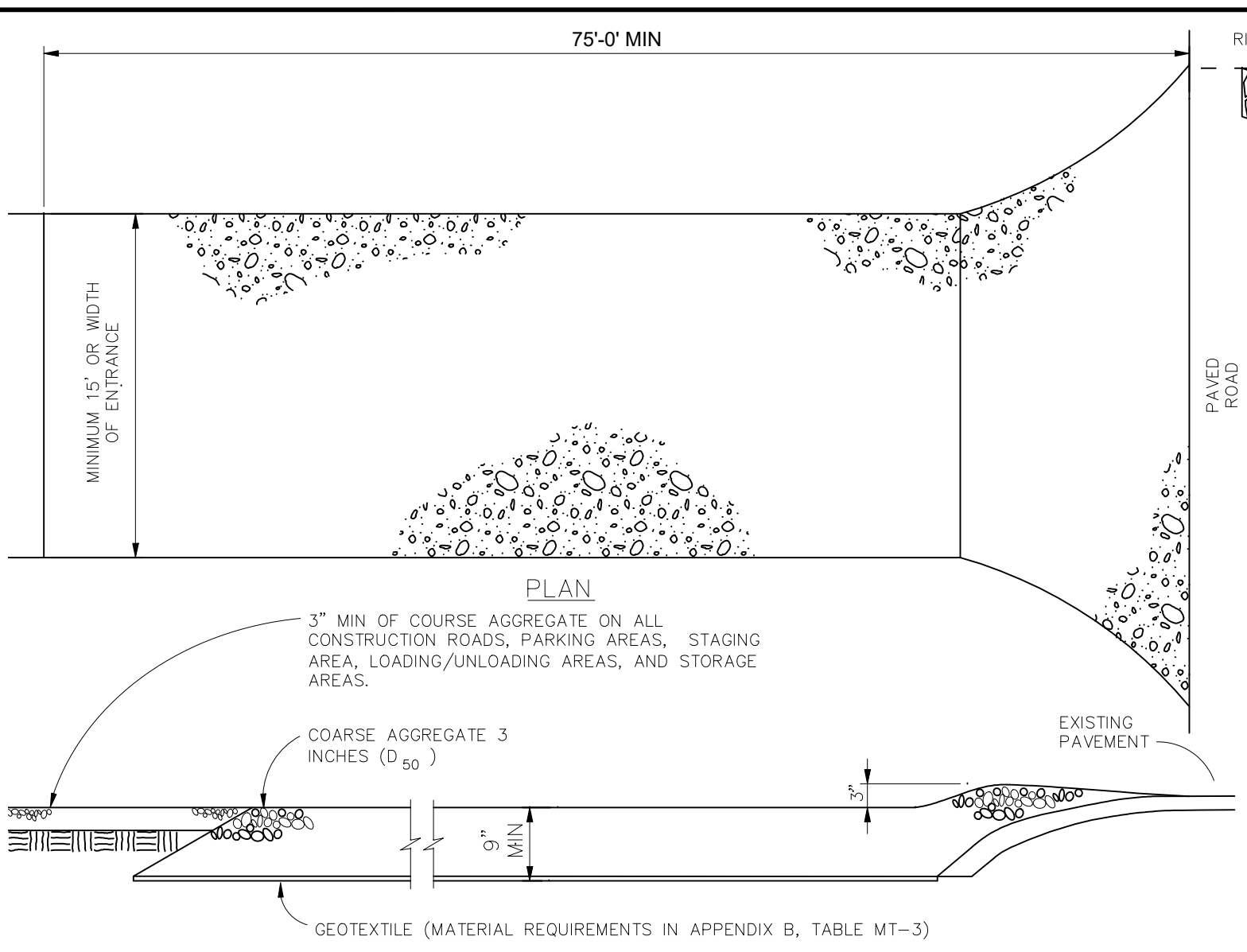
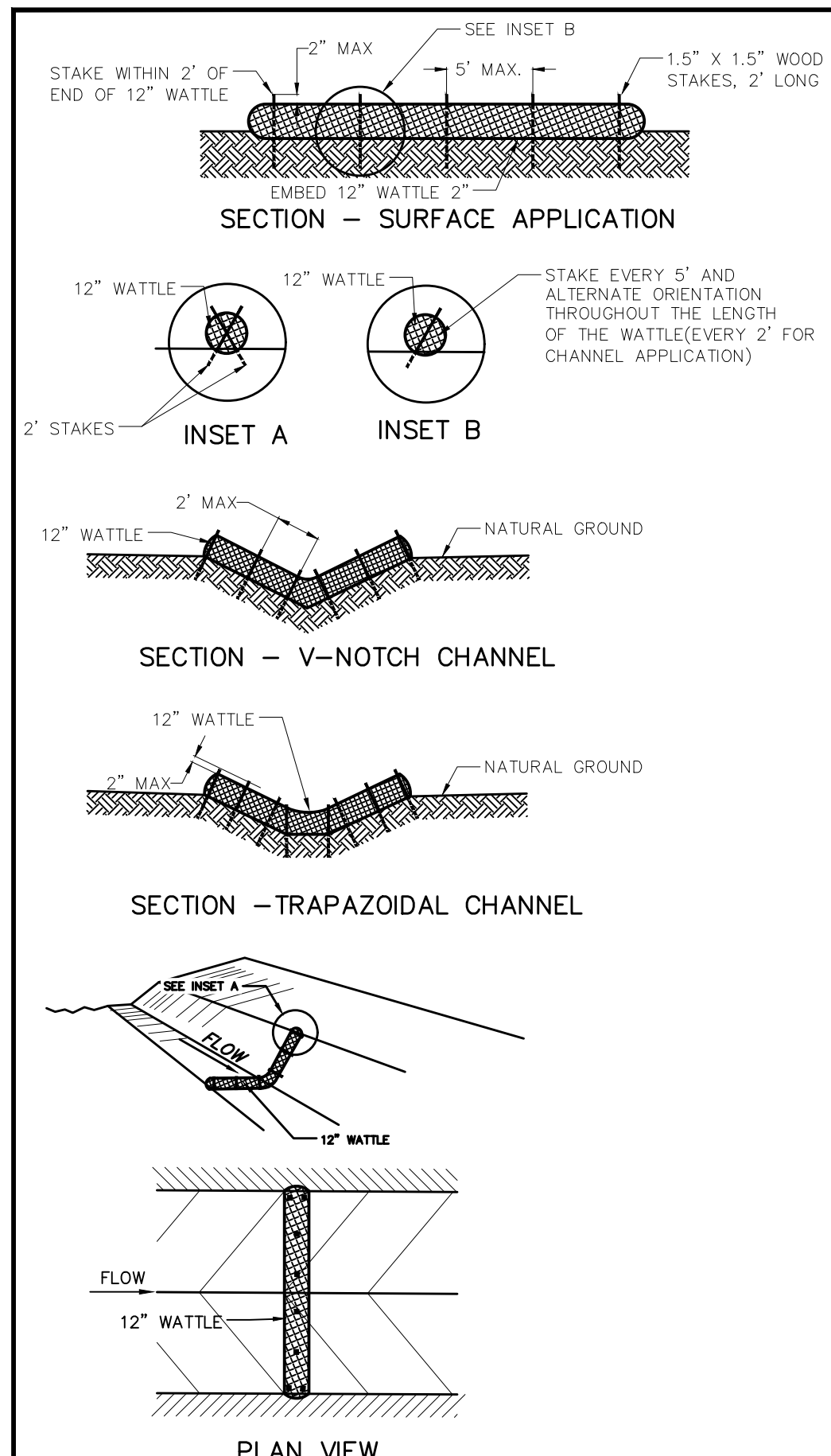


REX ROAD TYPICAL  
TEMP. MINOR ARTERIAL STREET SECTION  
80' ROW(100' FUTURE)  
NTS



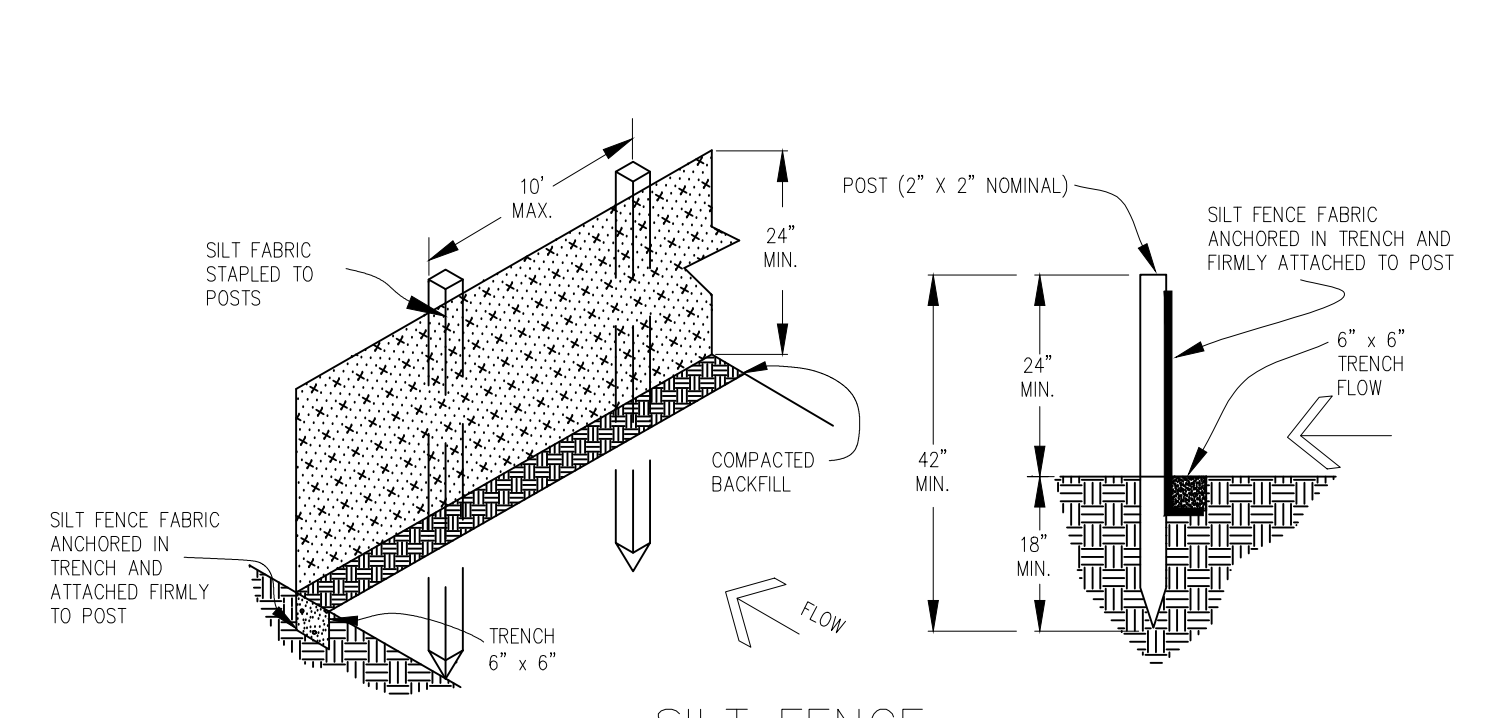
TYPICAL RESIDENTIAL STREET SECTION  
SOUTH OF REX ROAD  
50' ROW  
NTS

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		No.		Revisions		Date		Appr.	
MERIDIAN RANCH		PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET		Drawn by LOG		Checked by TAK		Date MAY 2022	
Scale AS SHOWN		22 of 23		Colorado State Board of Professional Engineers 31429 Professional Engineer		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)		PCD PROJECT NO. EPG222	



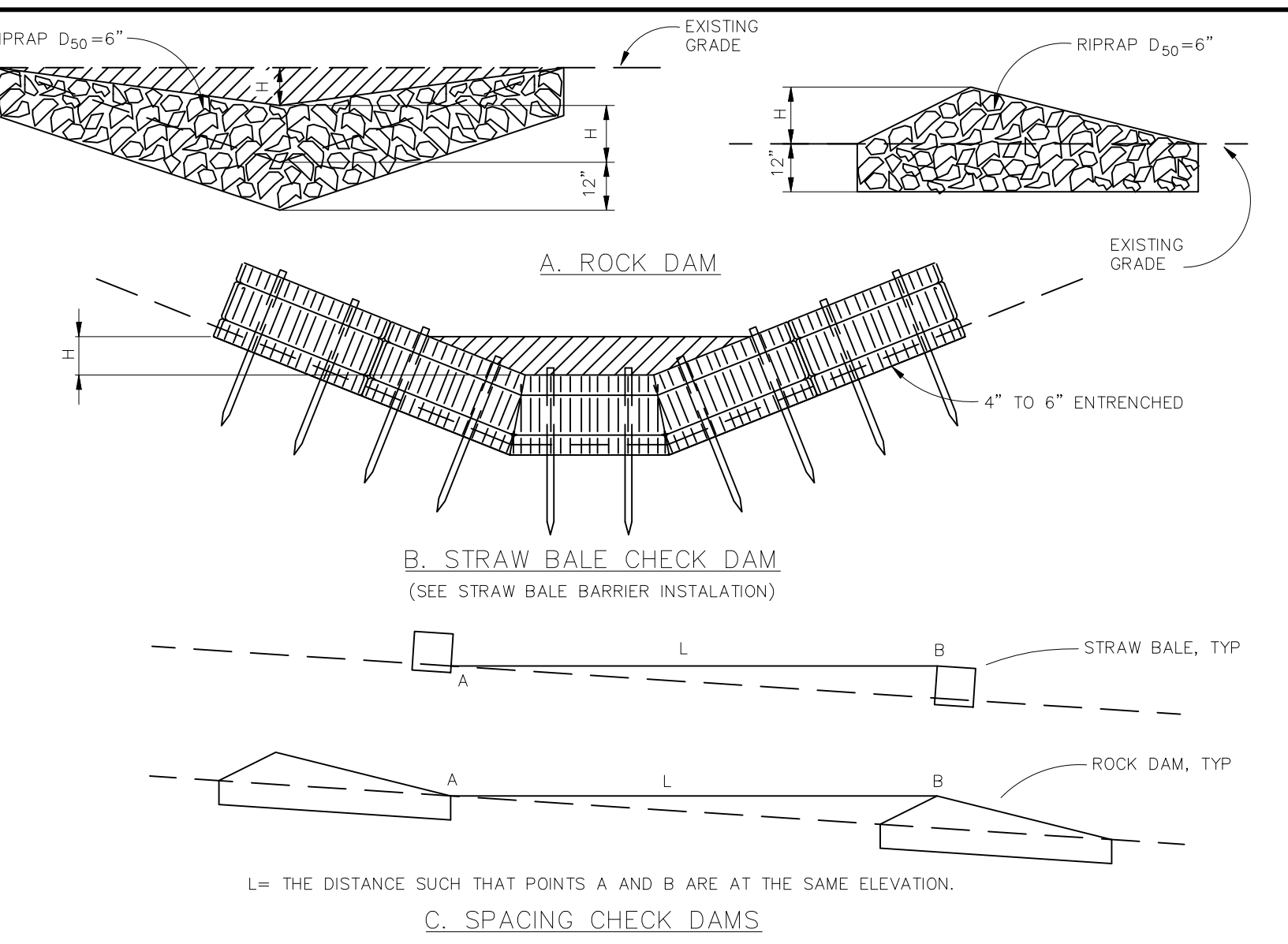
**VEHICLE TRACKING**  
NTS  
**VEHICLE TRACKING NOTES**

- INSTALLATION REQUIREMENTS**
1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
  2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
  3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
  4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
  5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.
- MAINTENANCE REQUIREMENTS**
1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
  2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
  3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
  4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
  5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.



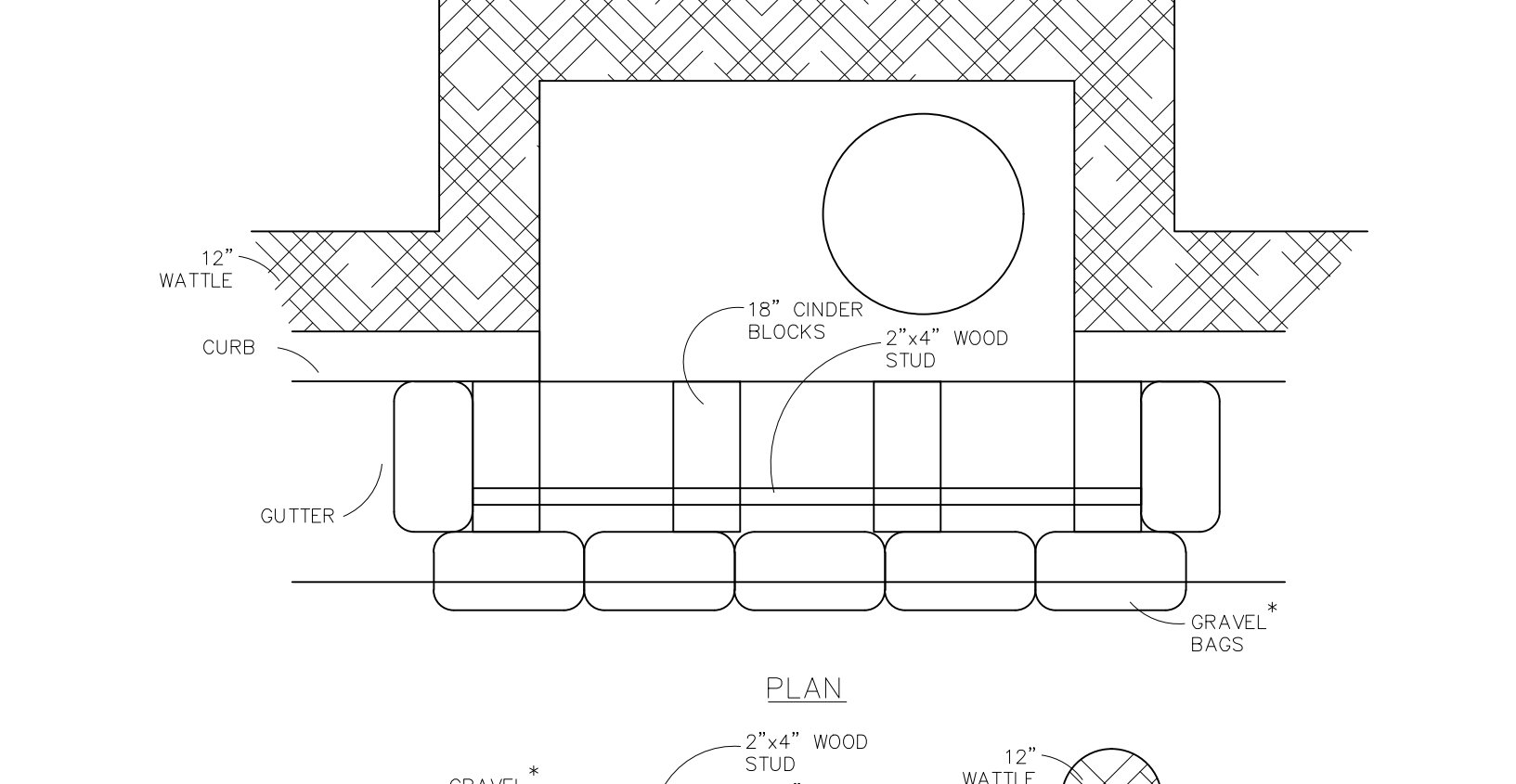
**SILT FENCE NOTES**

- INSTALLATION REQUIREMENTS**
1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
  2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
  3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
  4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
  5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG. THE WIRES OR HOO RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.
  6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.
  7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
- MAINTENANCE REQUIREMENTS**
1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.
  2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
  3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



**CHECK DAM**  
NTS  
**CHECK DAM NOTES**

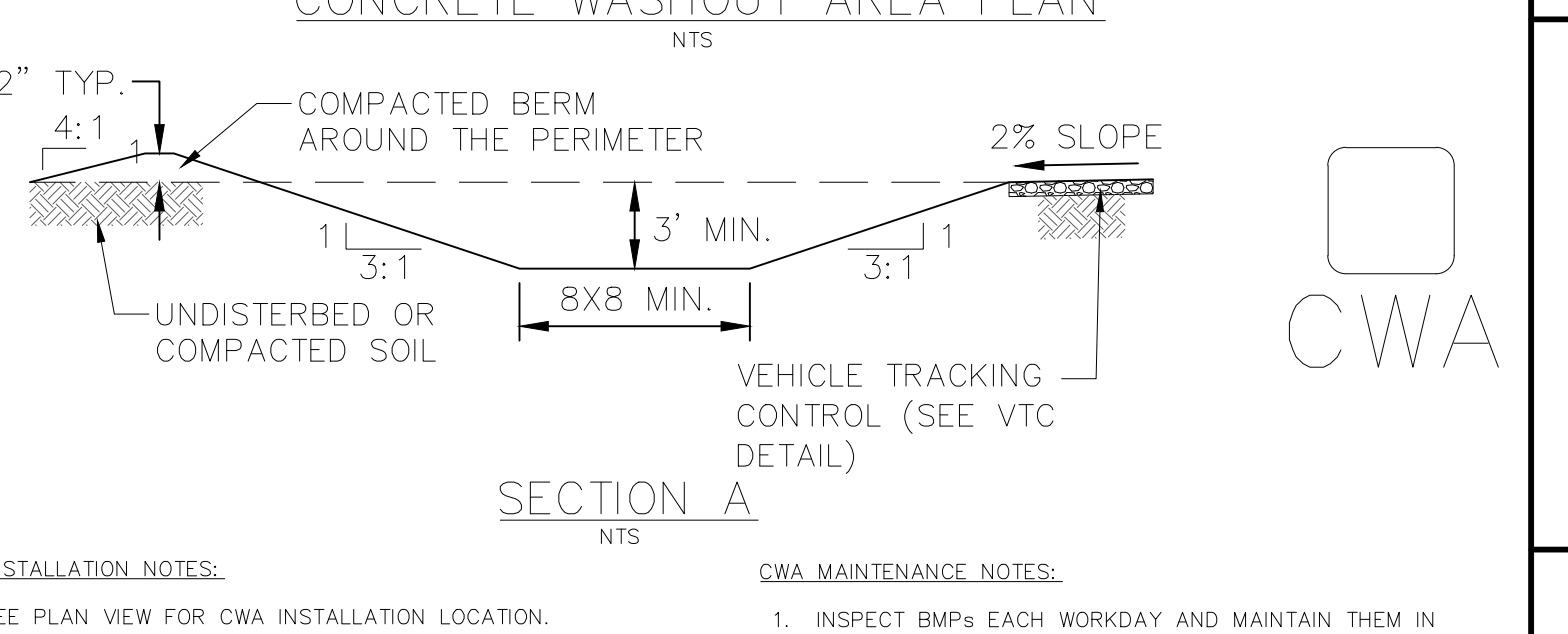
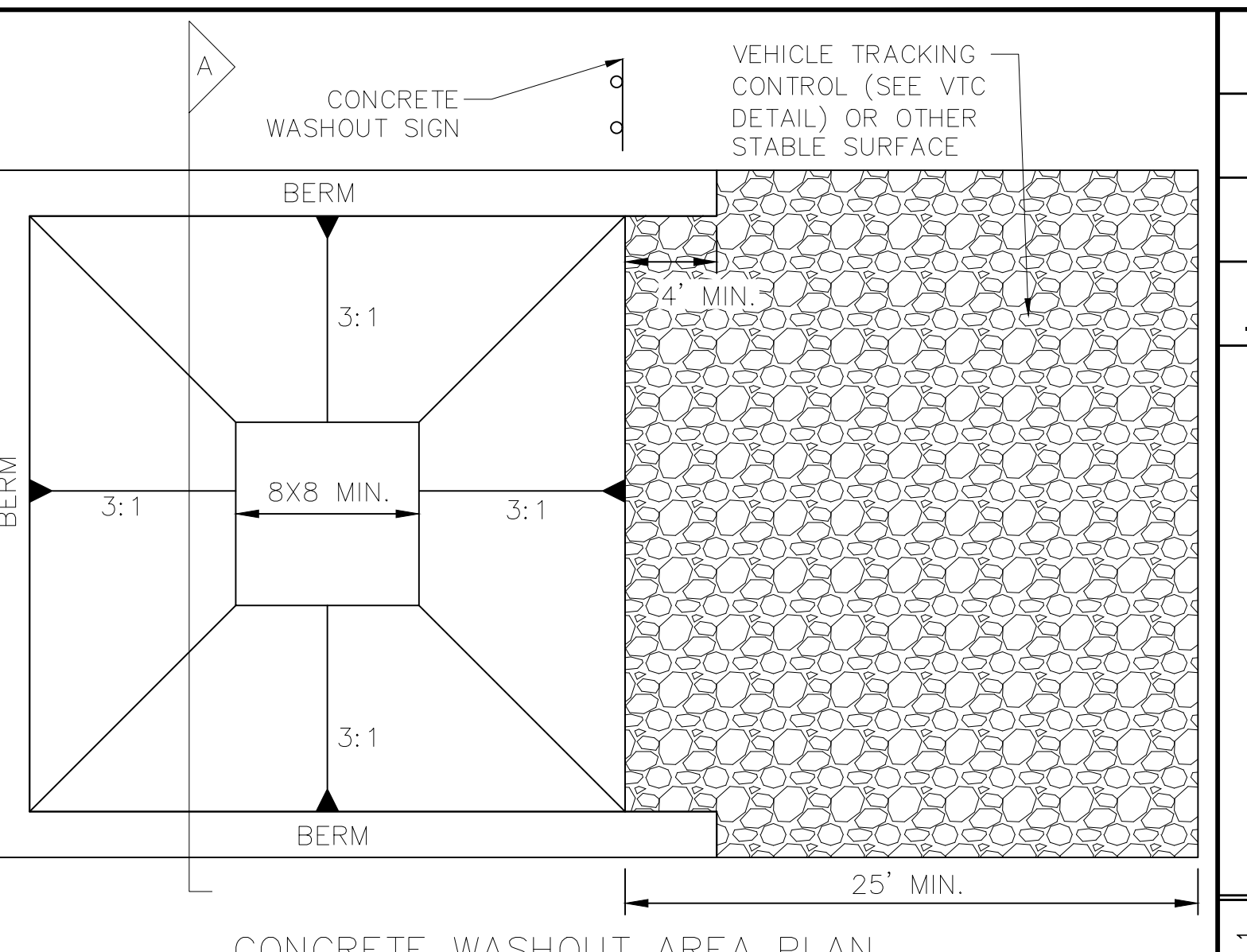
- INSTALLATION REQUIREMENTS**
1. STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SBB-2.
  2. THE "H" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.
- MAINTENANCE REQUIREMENTS**
1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
  2. REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
  3. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
  4. CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
  5. WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.



**MODIFIED BLOCK AND GRAVEL BAG CURB INLET PROTECTION**  
NTS  
**BLOCK AND GRAVEL BAG CURB INLET PROTECTION NOTES**

- INSTALLATION REQUIREMENTS**
1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
  2. CONCRETE BLOCKS ARE TO BE LAID AT 2' SPACING ON THEIR SIDES WITH THE OPEN ENDS OF THE BLOCK FACING EACH OTHER.
  3. IF MORE THAN ONE 2X4 IS REQUIRED, THEY NEED TO OVERLAP BY A MINIMUM OF 2'.
  4. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
  5. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
  6. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.
- MAINTENANCE REQUIREMENTS**
1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
  2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
  3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
  4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

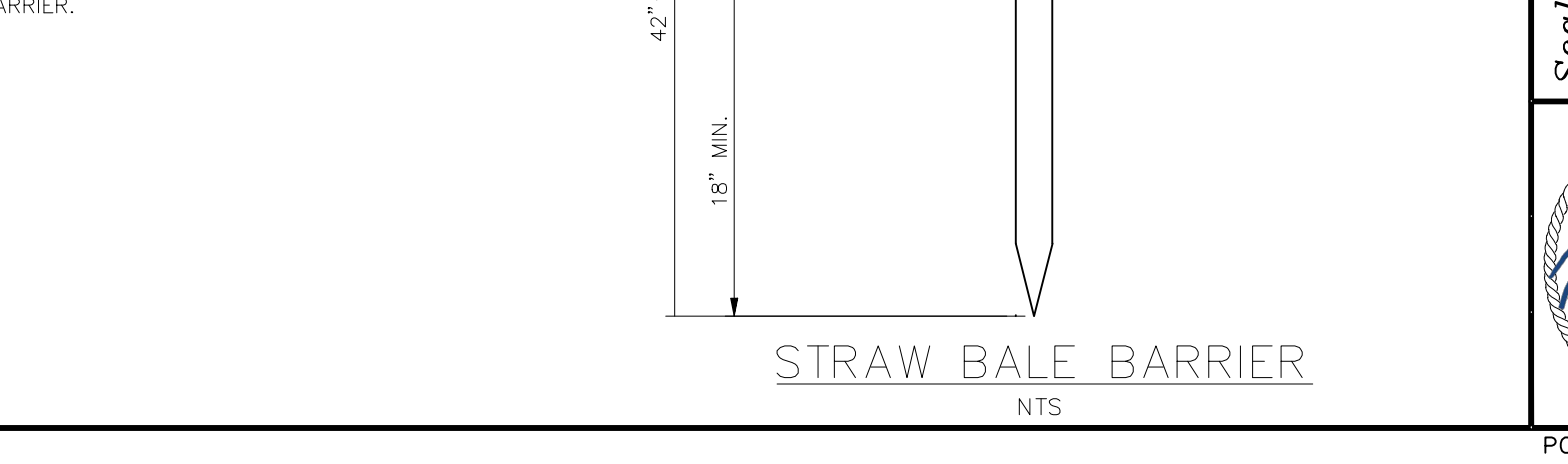
\* AN ALTERNATE 3/4" TO 1" GRAVEL FILTER OVER A WIRE SCREEN MAY BE USED IN PLACE OF GRAVEL BAGS. THE WIRE MESH SHALL EXTEND ABOVE THE TOP OF THE CONCRETE BLOCKS AND THE GRAVEL PLACED OVER THE WIRE SCREEN TO THE TOP OF THE CONCRETE BLOCKS.



- CWA INSTALLATION NOTES:**
1. SEE PLAN VIEW FOR CWA INSTALLATION LOCATION.
  2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1000' OF ANY WELLS OR DRINKING WATER SOURCES, IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (18 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE SHOULD BE USED.
  3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
  4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' X 8'. SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
  5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE A MINIMUM HEIGHT OF 1'.
  6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
  7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
  8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
- CWA MAINTENANCE NOTES:**
1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION AND PERFORM NECESSARY MAINTENANCE.
  2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
  5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
  6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
  7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOPSOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

**STRAW BALE BARRIER NOTES**

- INSTALLATION REQUIREMENTS**
1. STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
  2. BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.
  3. BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
  4. EACH BALE IS TO BE SECURELY ANCHORED WITH AT LEAST TWO STAKES AND THE FIRST STAKE IS TO BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
  5. STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "T" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD STAKES SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
  6. BALES ARE TO BE BOUND WITH EITHER WIRE OR STRING AND ORIENTED SUCH THAT THE BINDINGS ARE AROUND THE SIDES AND NOT ALONG THE TOPS AND BOTTOMS OF THE BALE.
  7. GAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.
  8. END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.
- MAINTENANCE REQUIREMENTS**
1. CONTRACTOR SHALL INSPECT STRAW BALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
  2. DAMAGED OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.
  3. SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
  4. STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



**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)

No.	Revisions	Date	Appr.	Date
1				
2				
3				
4				

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



**PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET**

Scale	AS SHOWN
Drawn by	LOG
Checked by	TAK
Date	MAY 2022
23 of 23	

