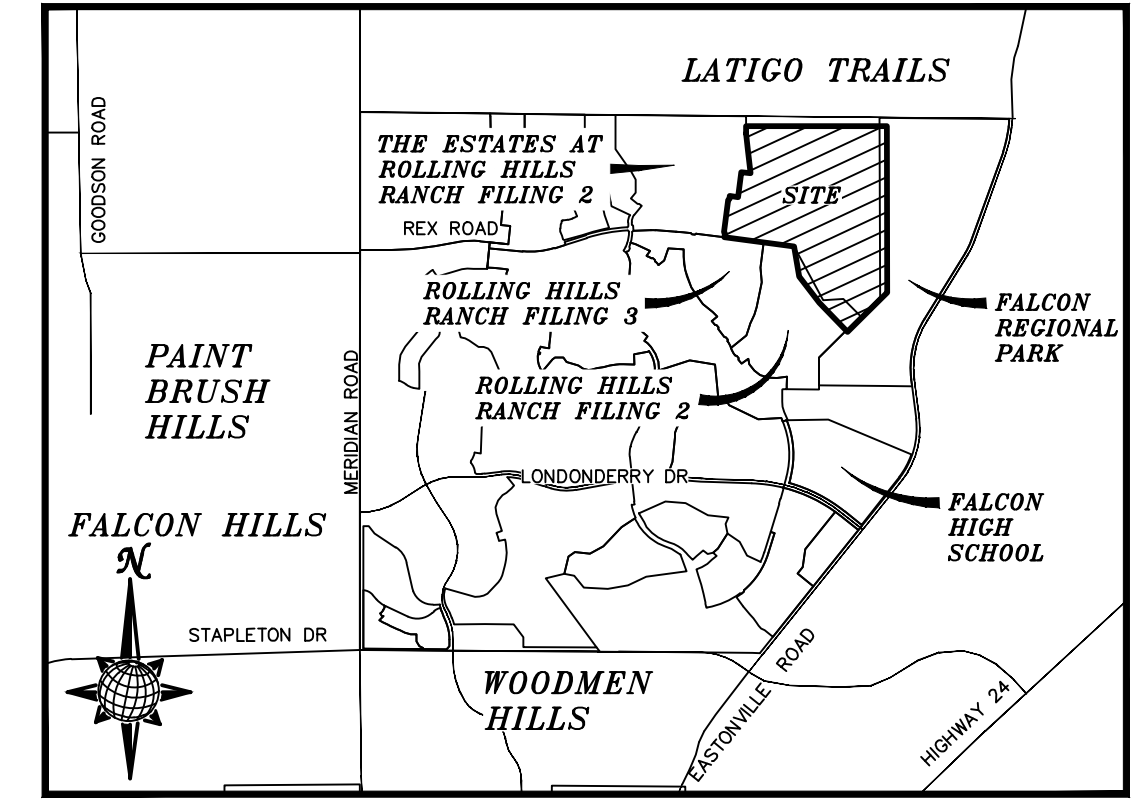


# PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH

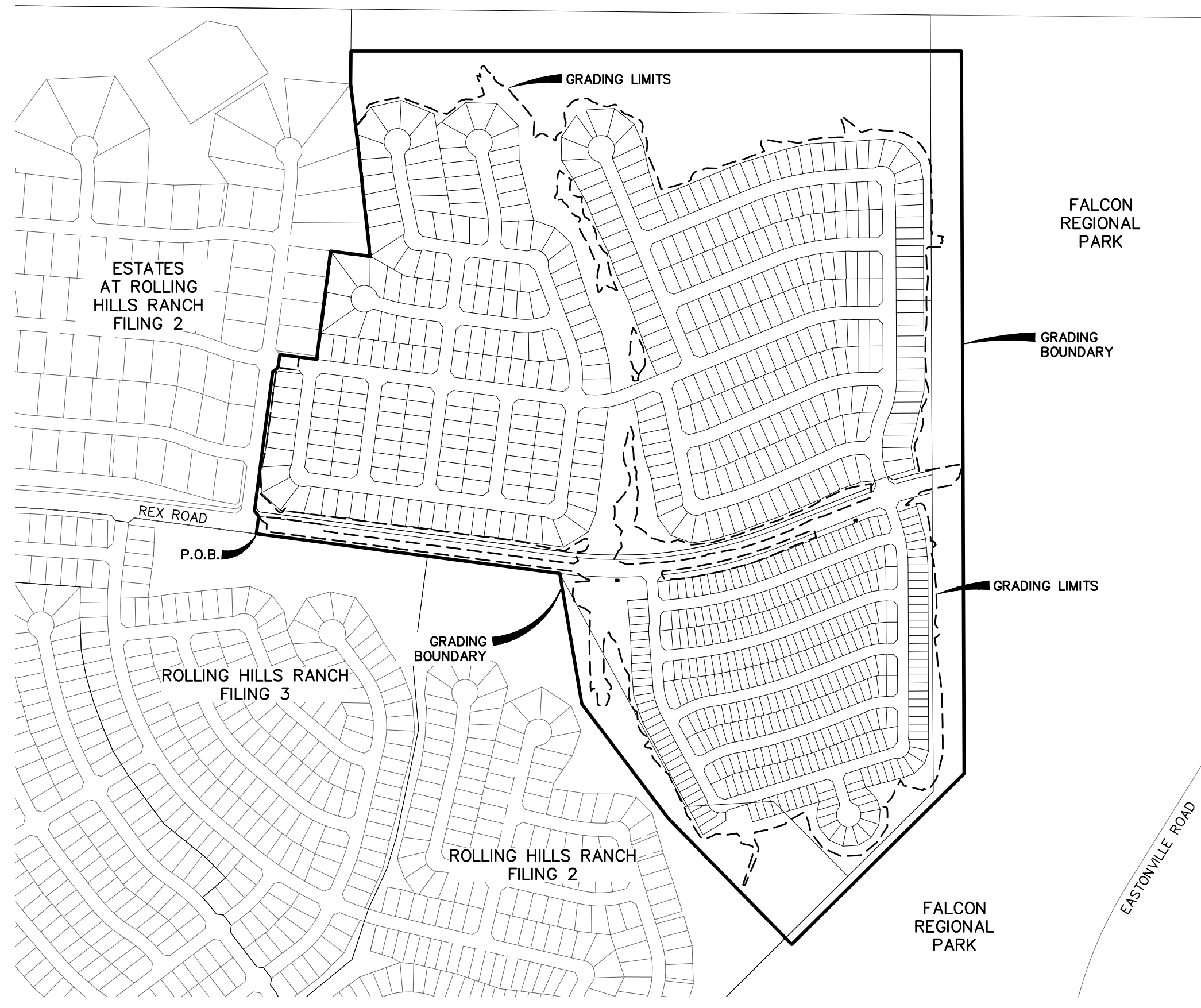
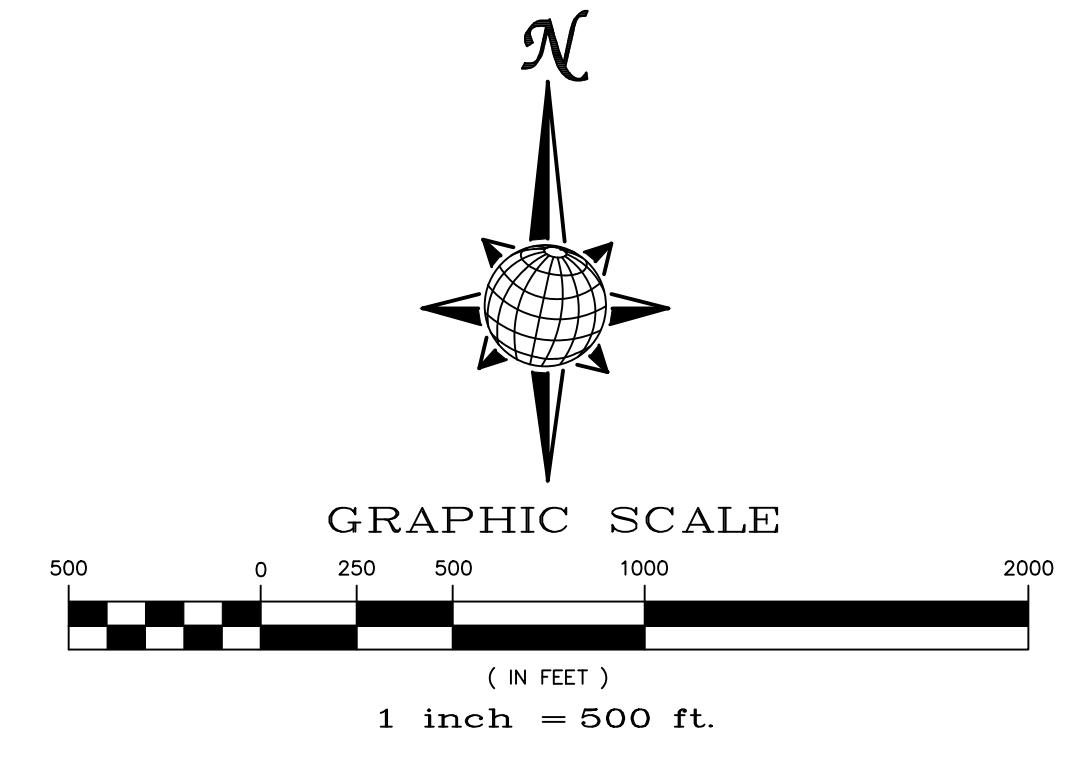
PREPARED FOR GTL, INC. DBA GTL DEVELOPMENT, INC.

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

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

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

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

DRAINAGE - EL PASO COUNTY 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

**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 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'

**DEVELOPERS STATEMENT:**

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

RAUL GUZMAN, VICE PRESIDENT  
GTL DEVELOPMENT, INC. DATE 5/12/2022

**OWNERS STATEMENT:**

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

RAUL GUZMAN, VICE PRESIDENT  
MERIDIAN RANCH INVESTMENTS, INC. DATE 5/12/2022

RAUL GUZMAN, VICE PRESIDENT  
GTL DEVELOPMENT, INC. DATE 5/12/2022

**DESIGN ENGINEER'S STATEMENT:**

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



THOMAS A. KERBY, P.E. #31429

**EL PASO COUNTY:**

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

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

No.	Date	Appr.
1		
2		
3		
4		

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

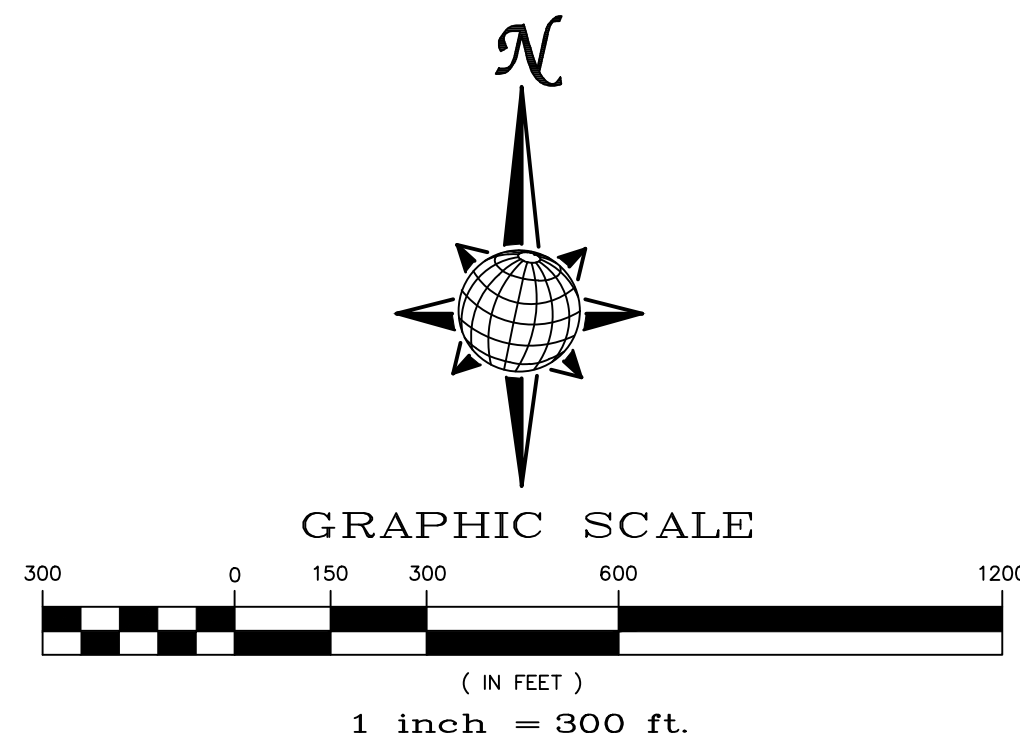
Scale AS SHOWN  
1 of 23

PCD PROJECT NO. EPG222

**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:

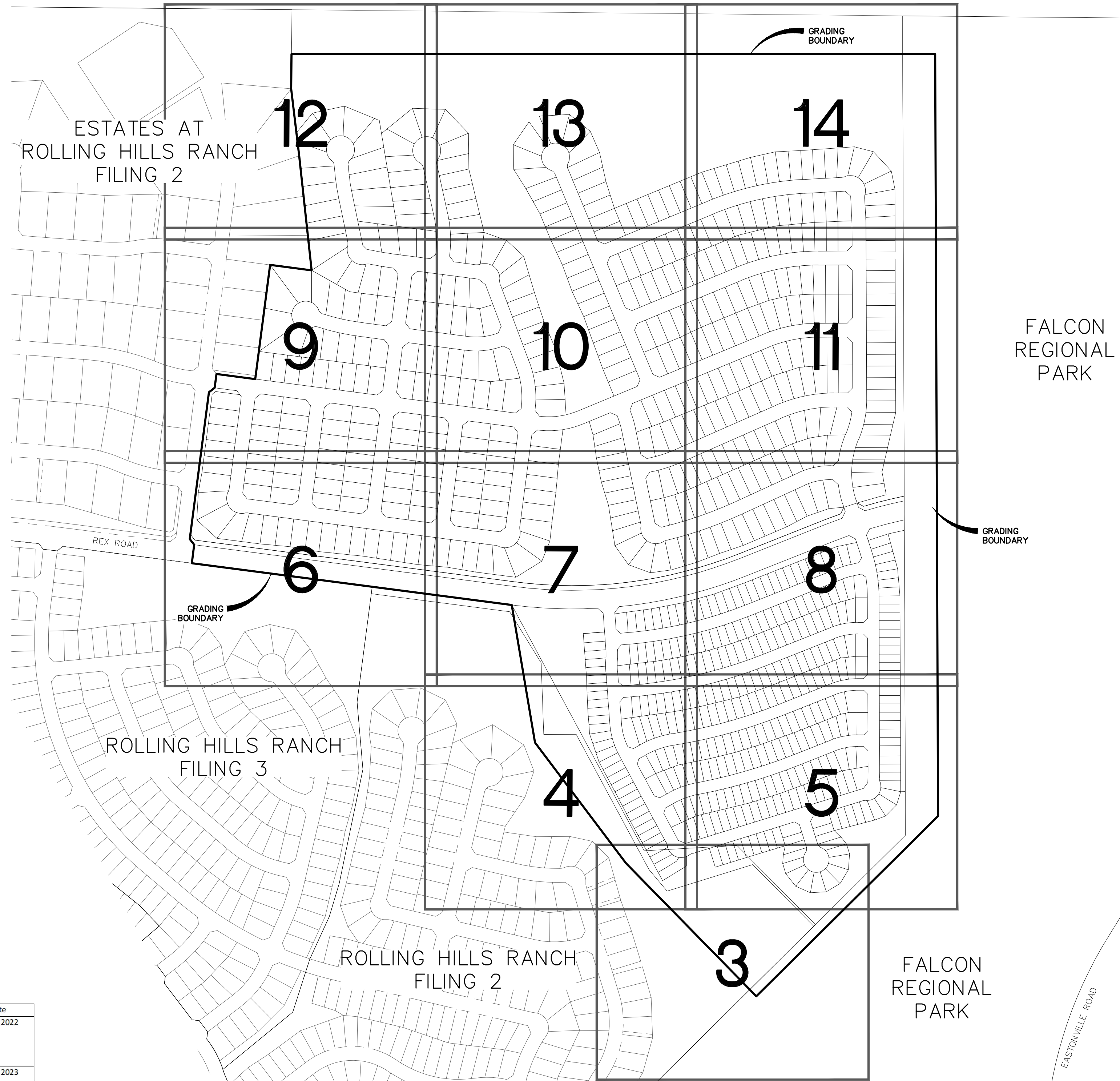
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
WATER QUALITY CONTROL DIVISION  
WOOD - PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT



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	

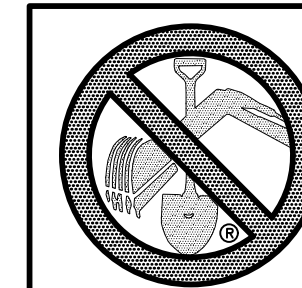
**EARTHWORK QUANTITIES**

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		



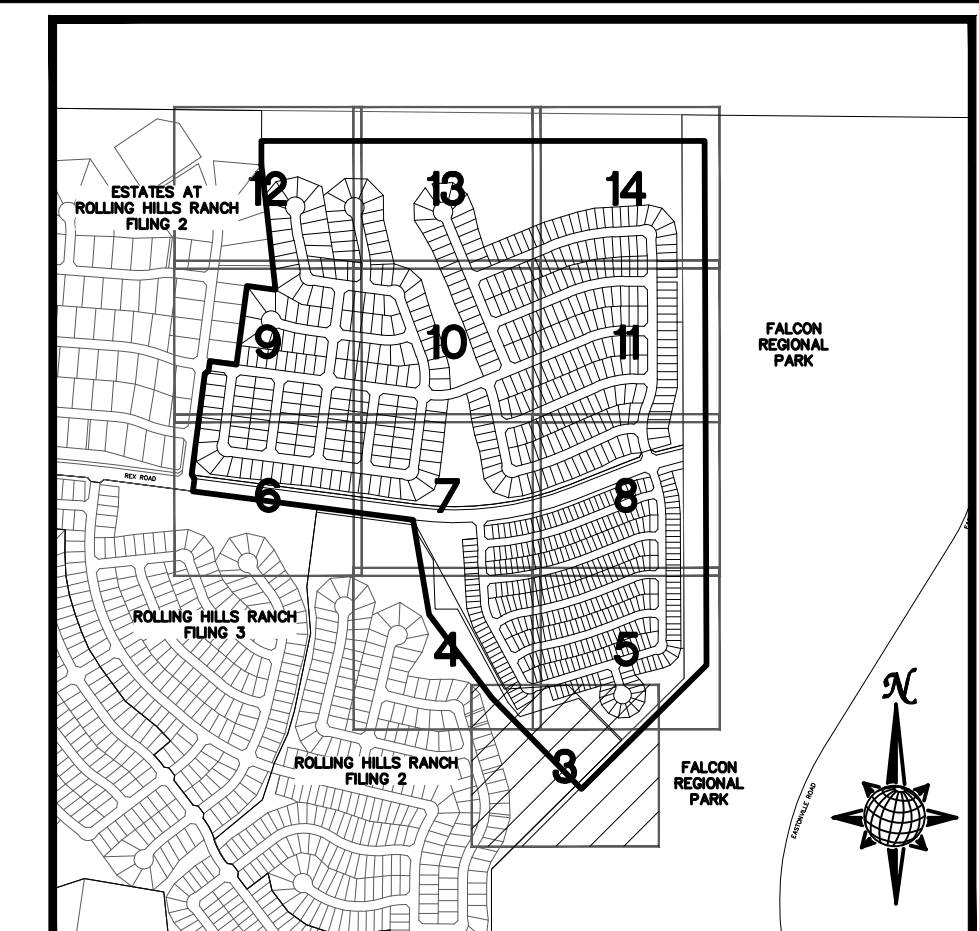
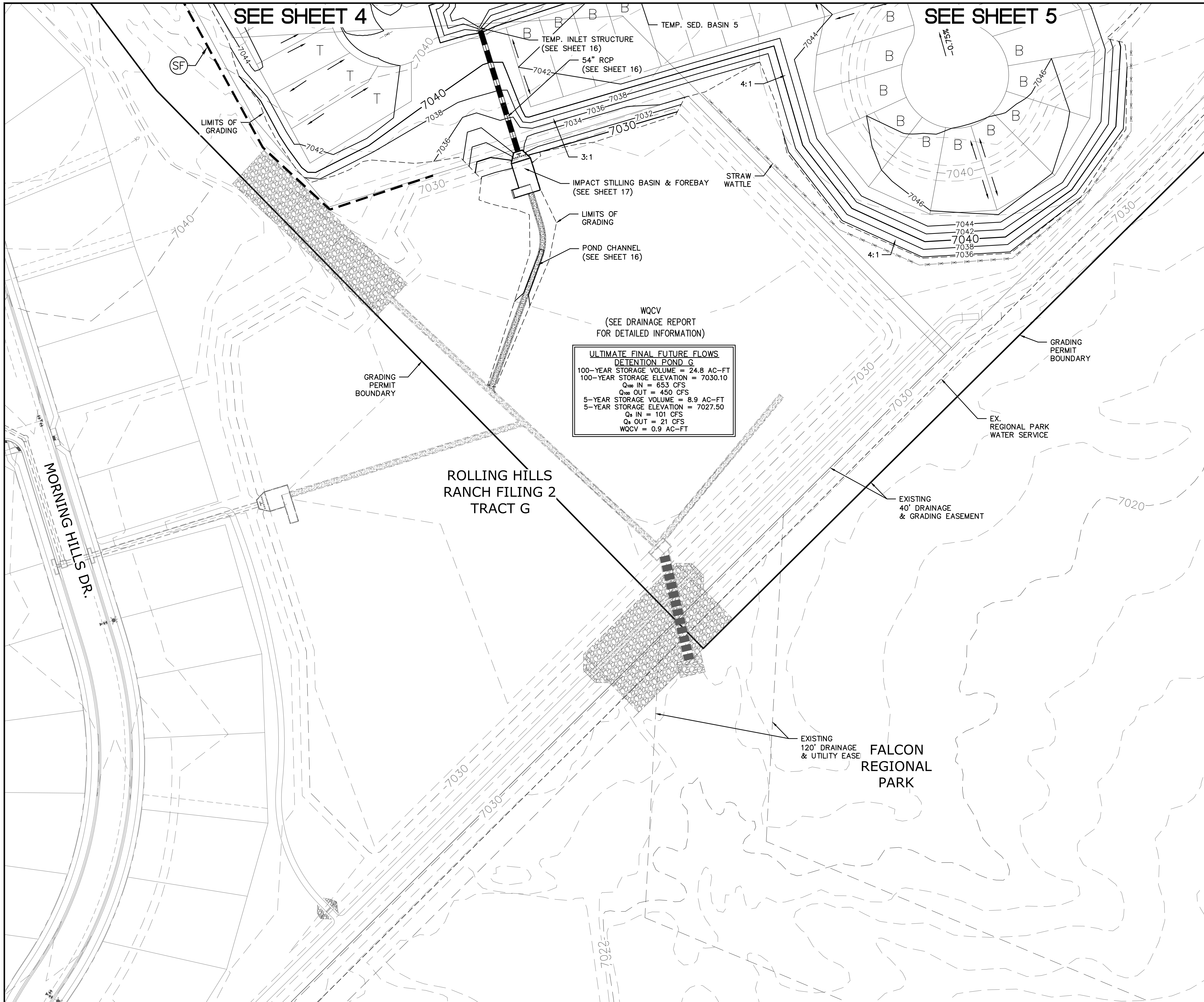
**NOTE:**

- 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-SEEDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDED 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				
<b>MERIDIAN RANCH</b>				
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN GRADING INDEX SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MAY 2022
Scale	2 of 23			

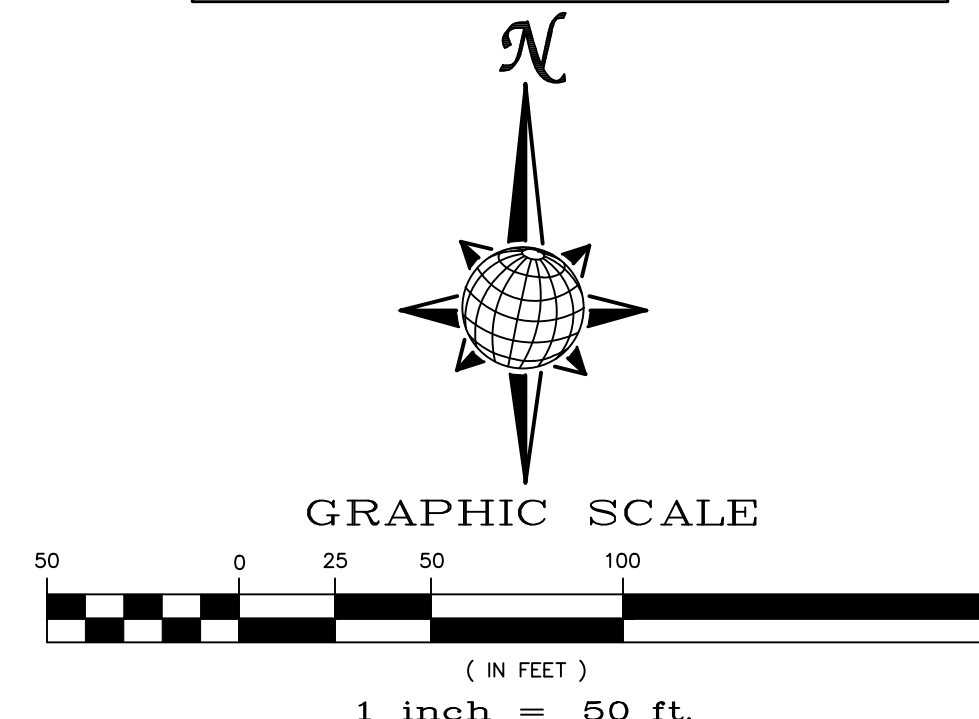


**LEGEND**

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



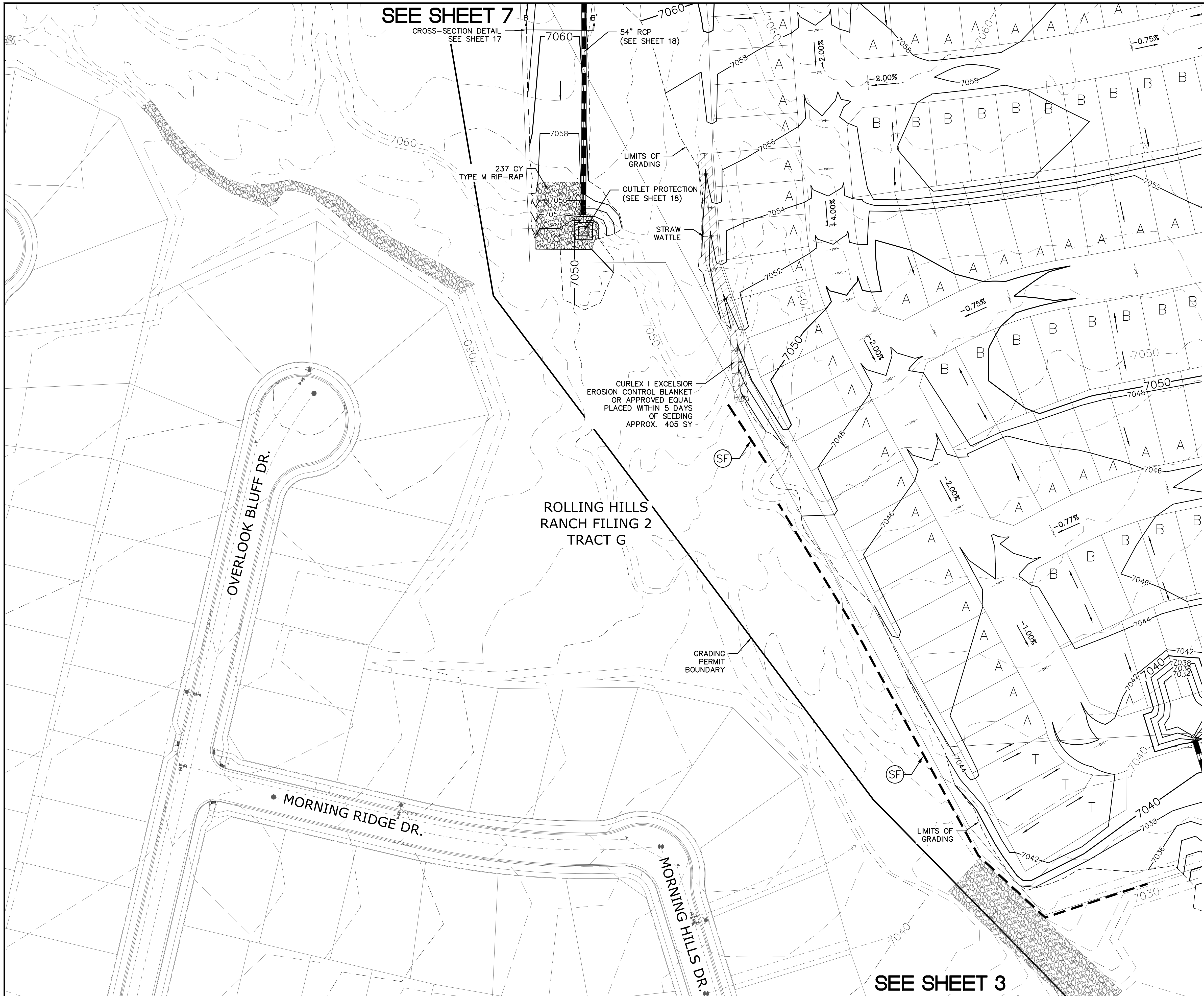
**BEFORE YOU DIG CALL 811**

TWO WORKING DAYS

OR

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

1	2	3	4	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 PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MAY 2022
Scale	3	of	23	



**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

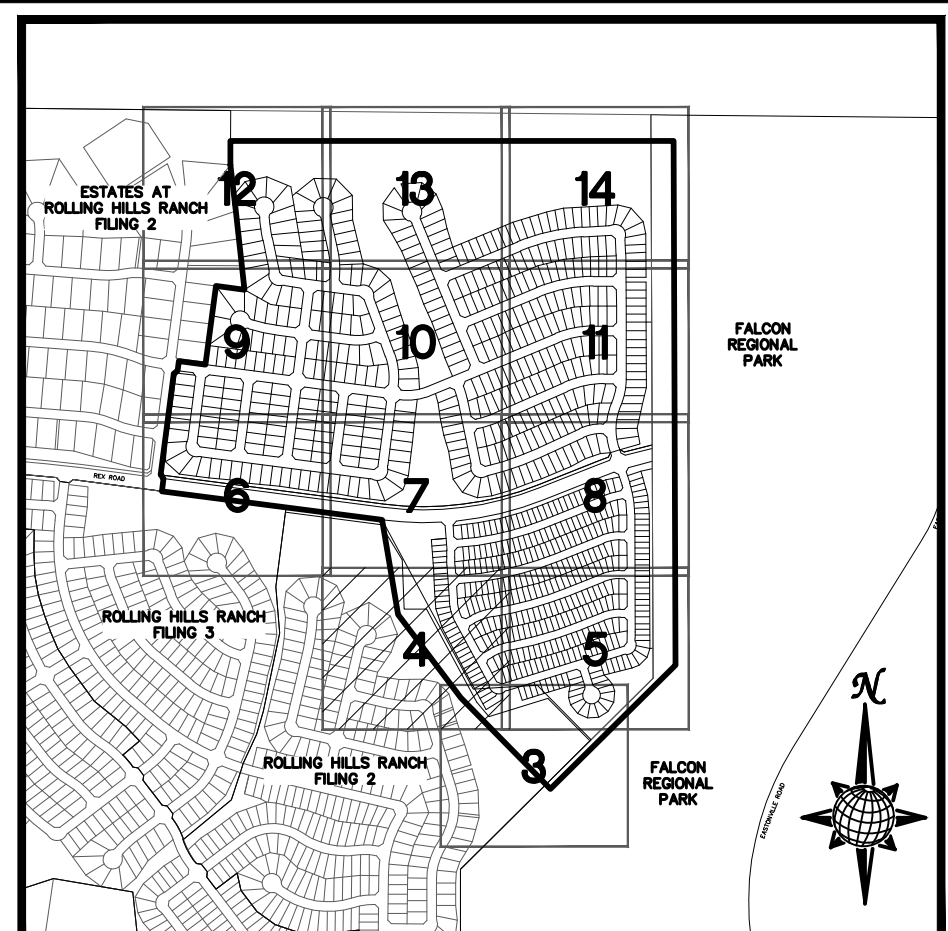
CURLEX I EXCELSIOR  
EROSION CONTROL BLANKET  
OR APPROVED EQUAL  
PLACED WITHIN 5 DAYS  
OF SEEDING  
APPROX. 405 SY

ROLLING HILLS  
RANCH FILING 2  
TRACT G

GRADING  
PERMIT  
BOUNDARY

LIMITS OF  
GRADING

**SEE SHEET 3**



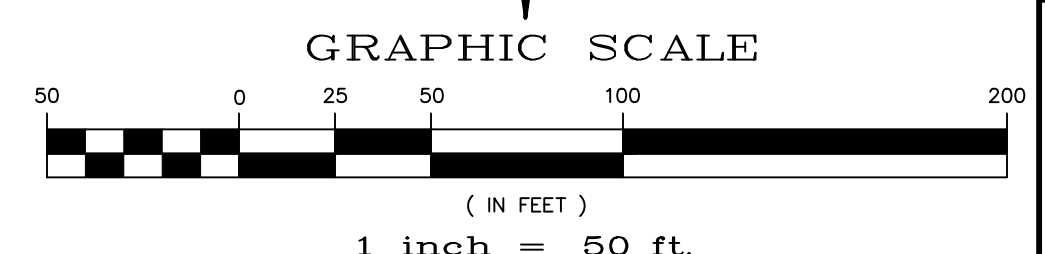
**INDEX MAP**  
N.T.S.

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')
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		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

NOTE:  
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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)

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
--

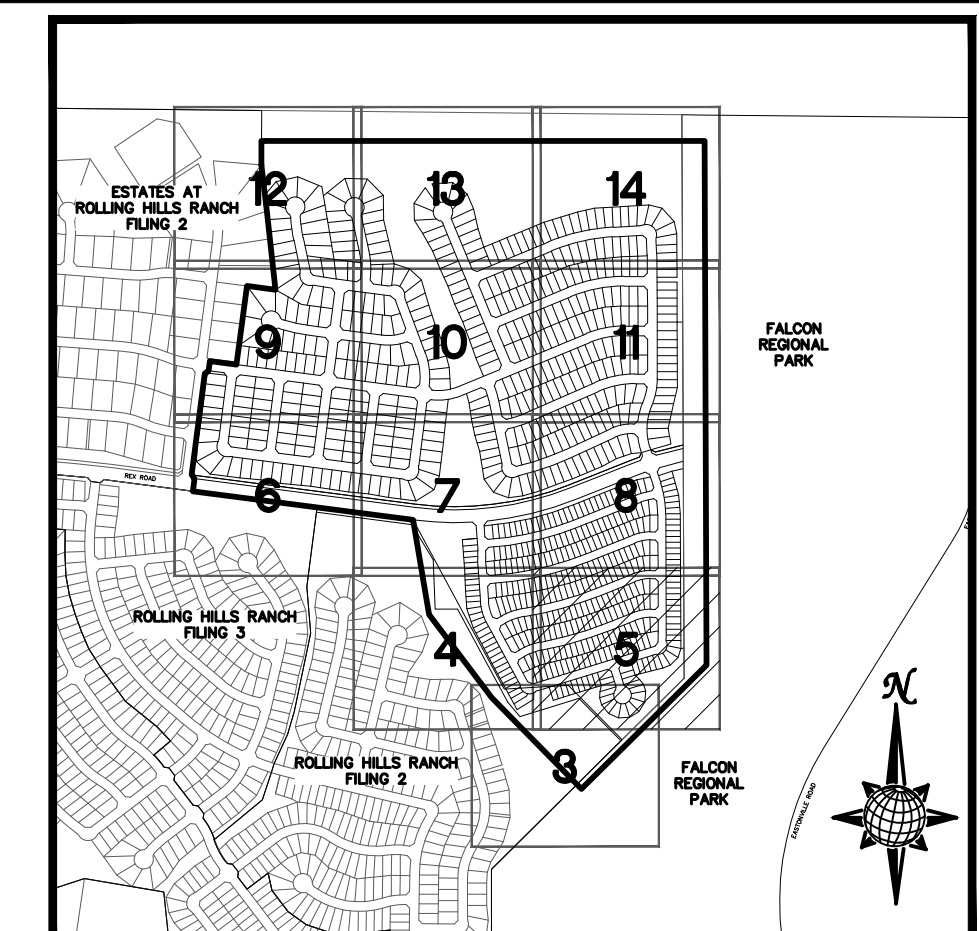
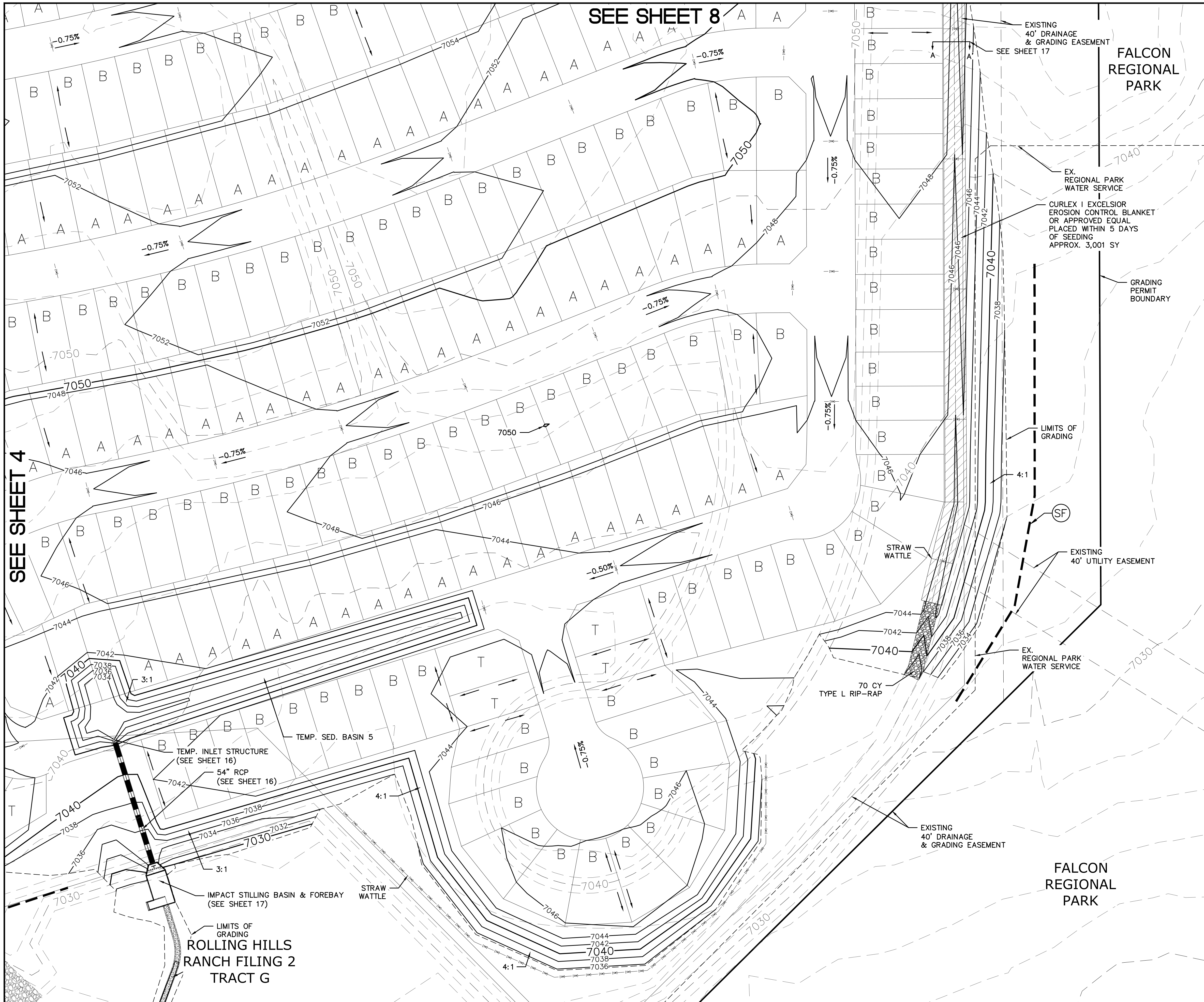
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Scale AS SHOWN	4 of 23
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	PROFESSIONAL ENGINEER
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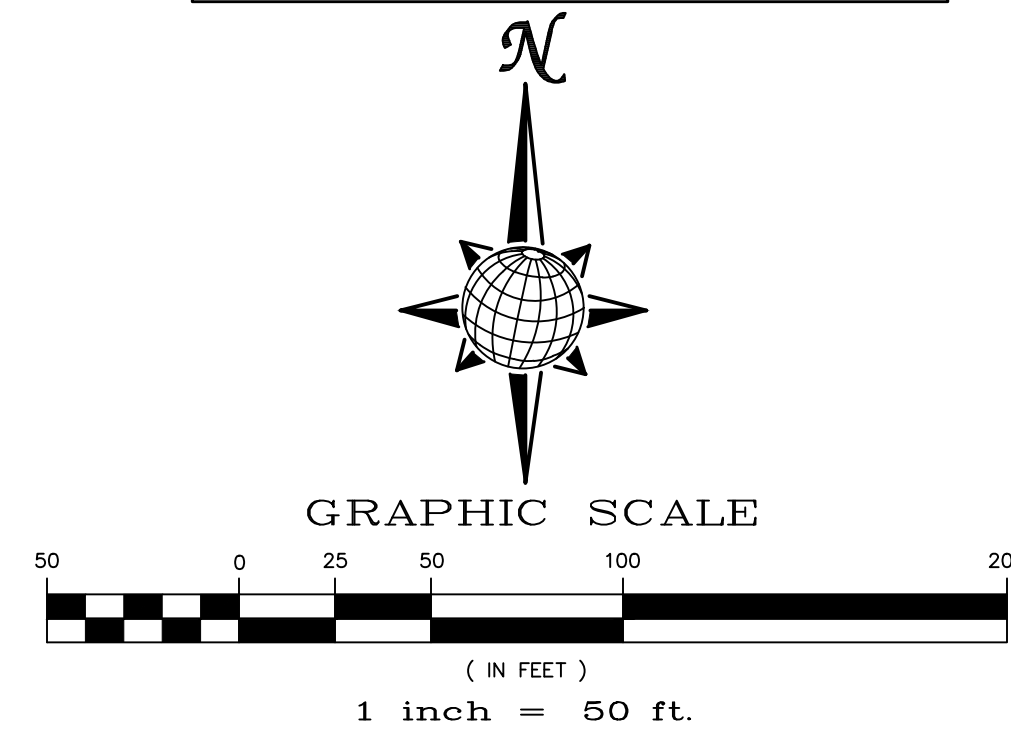
**INDEX MAP**  
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		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

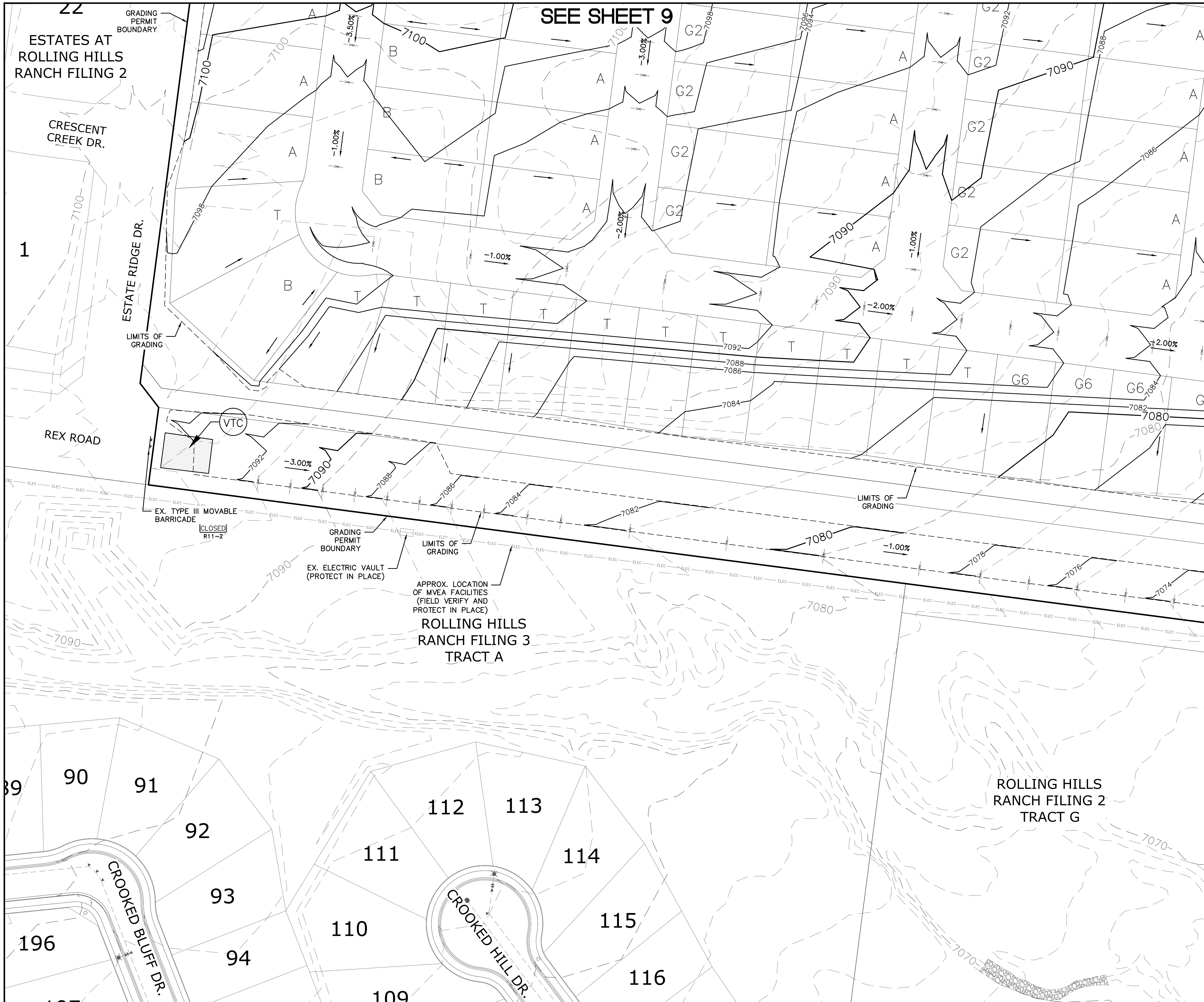
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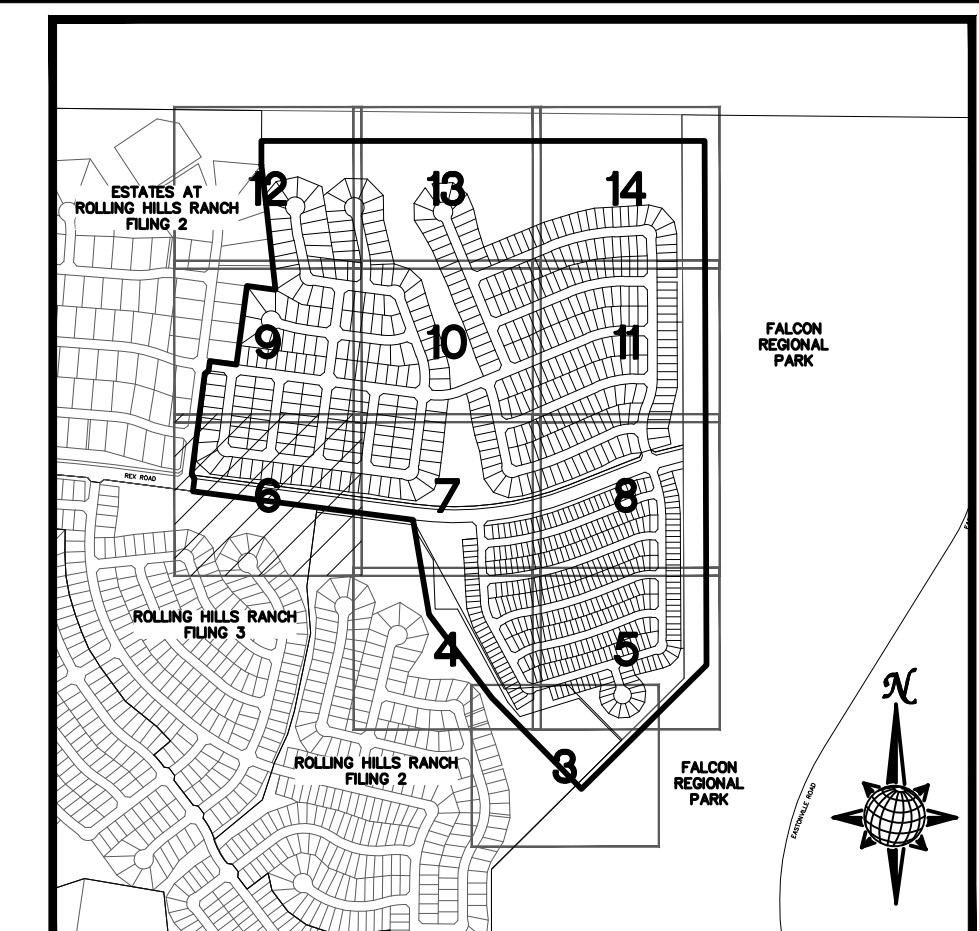
**PROFESSIONAL ENGINEER**  
31429  
TWO WORKING DAYS  
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TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457								<b>PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET</b>	
Drawn by	LOG	Checked by	TAK						
Scale	AS SHOWN	5	of	23					



SEE SHEET 9

SEE SHEET 7



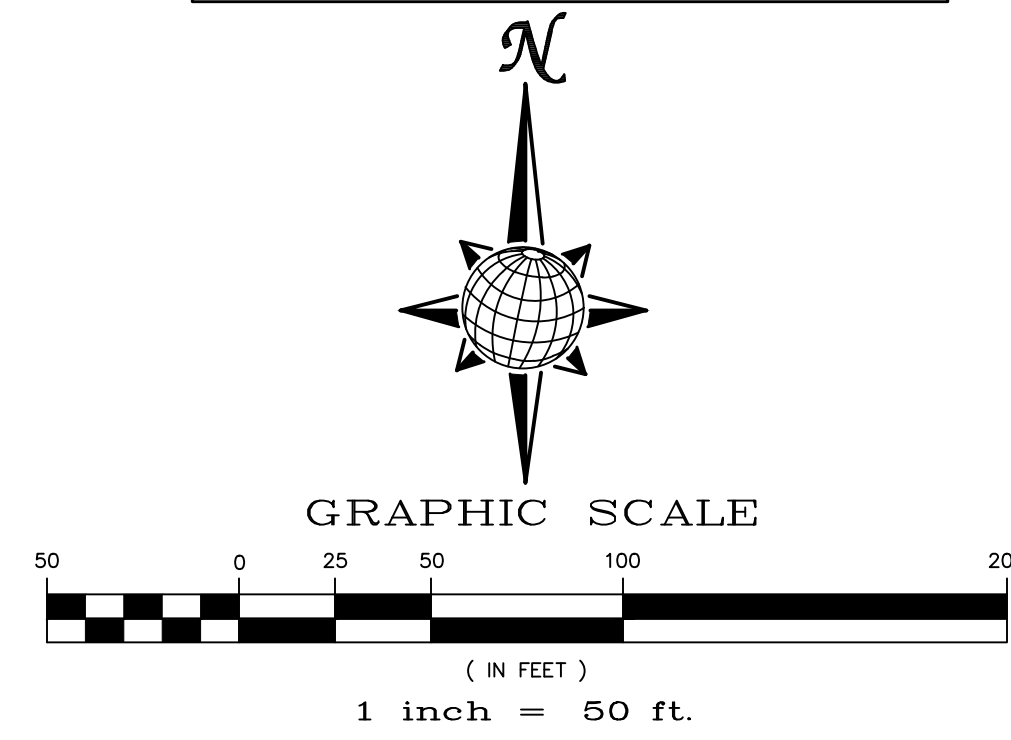
**INDEX MAP**  
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4					

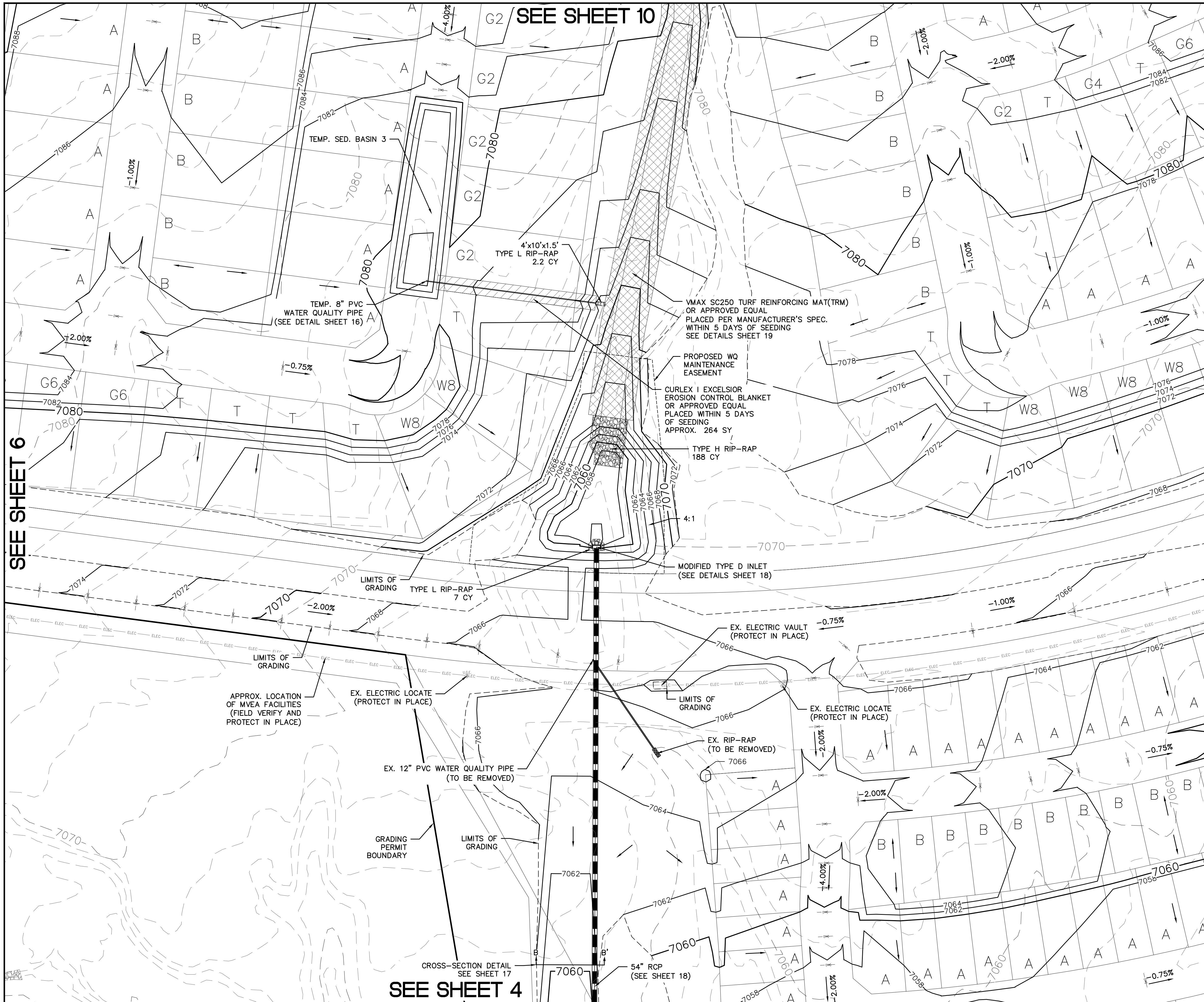
TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457

**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	6	of	23	

PCD PROJECT NO. EPG222

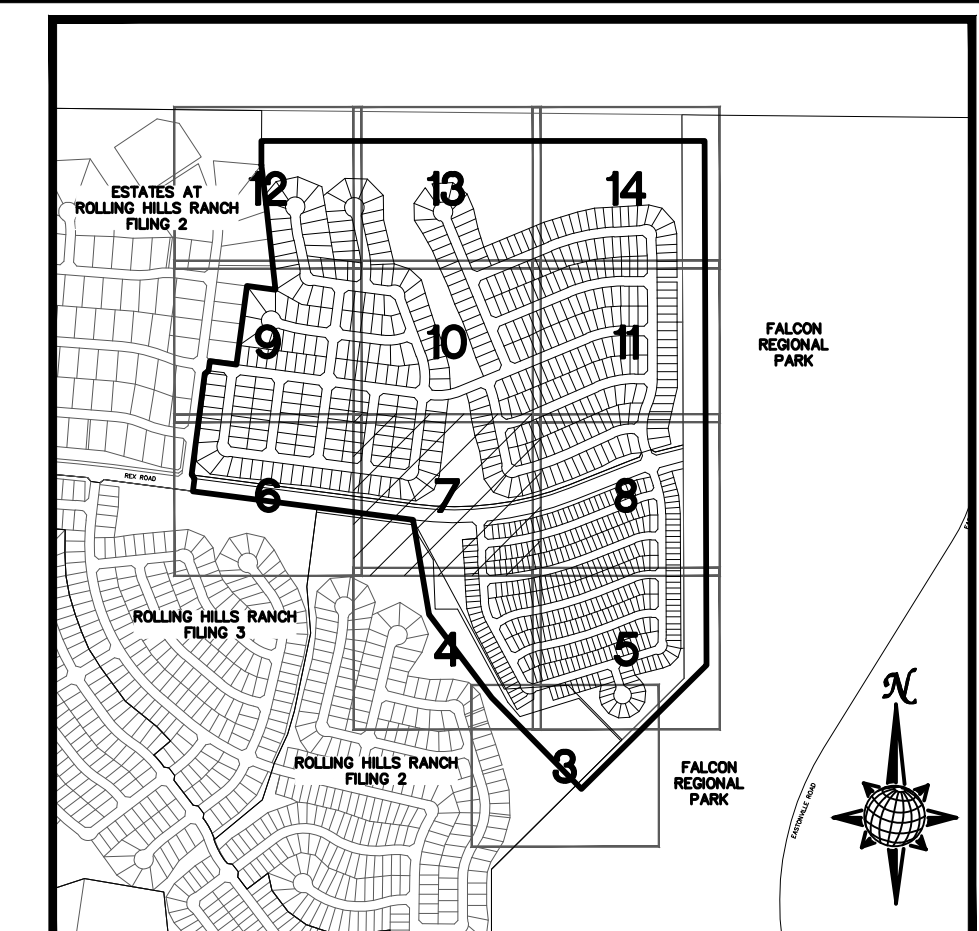


SEE SHEET 10

SEE SHEET 6

SEE SHEET 8

SEE SHEET 4



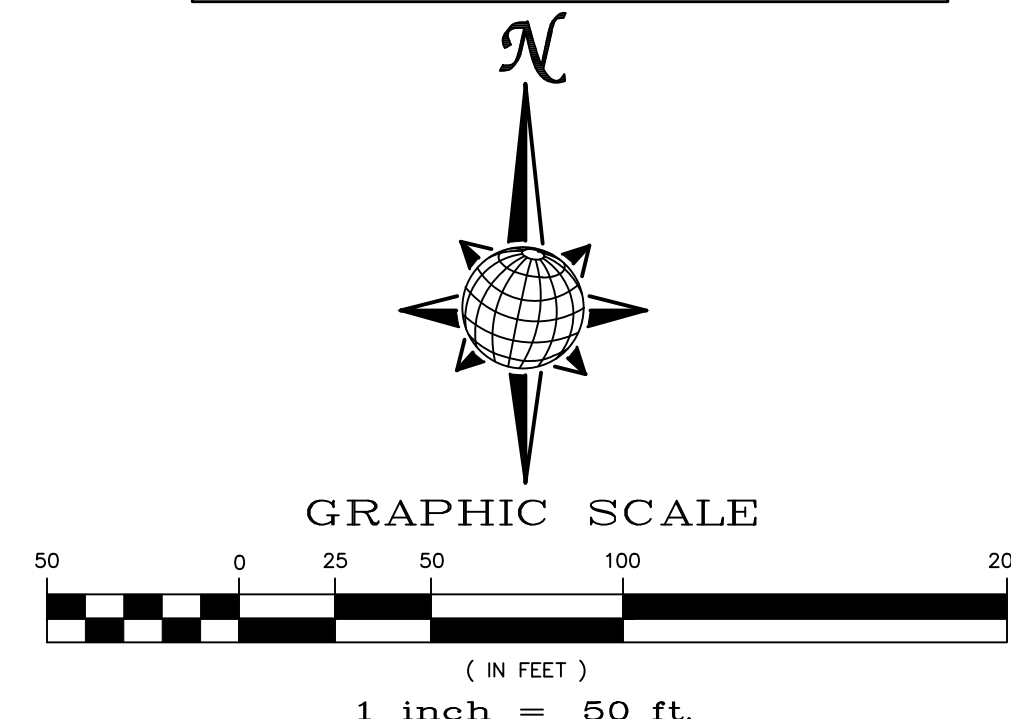
**INDEX MAP**  
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		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

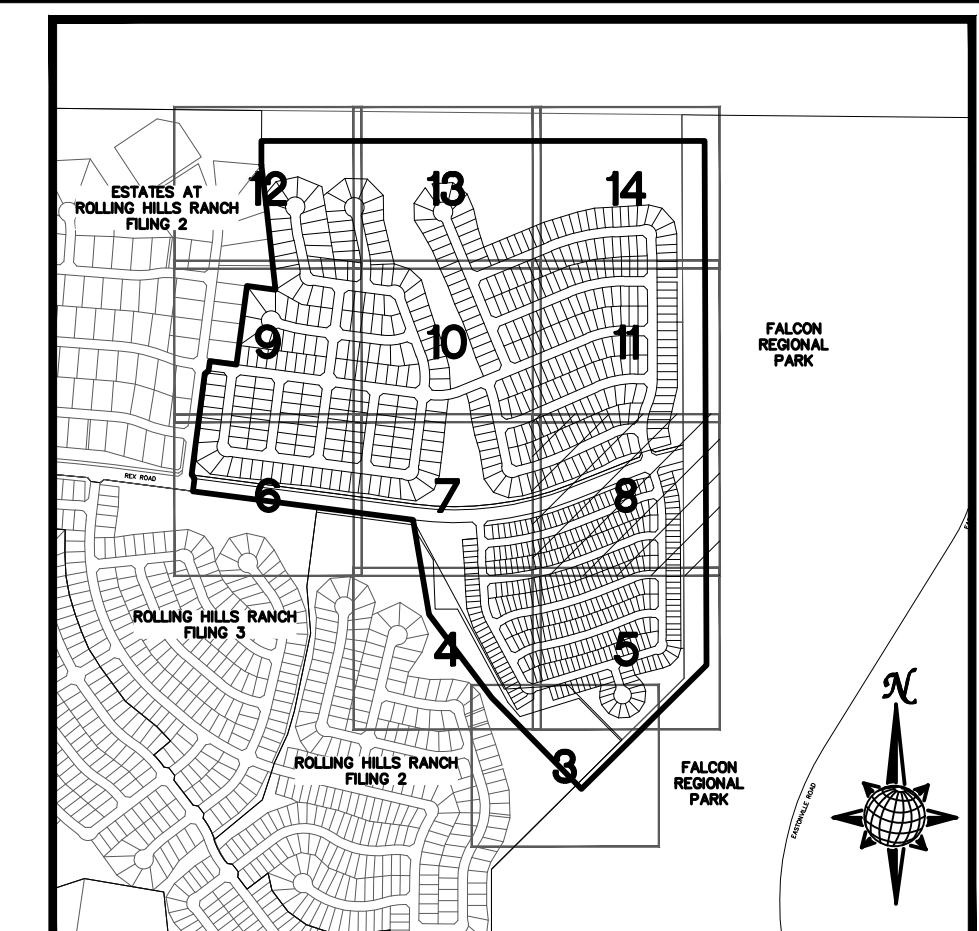
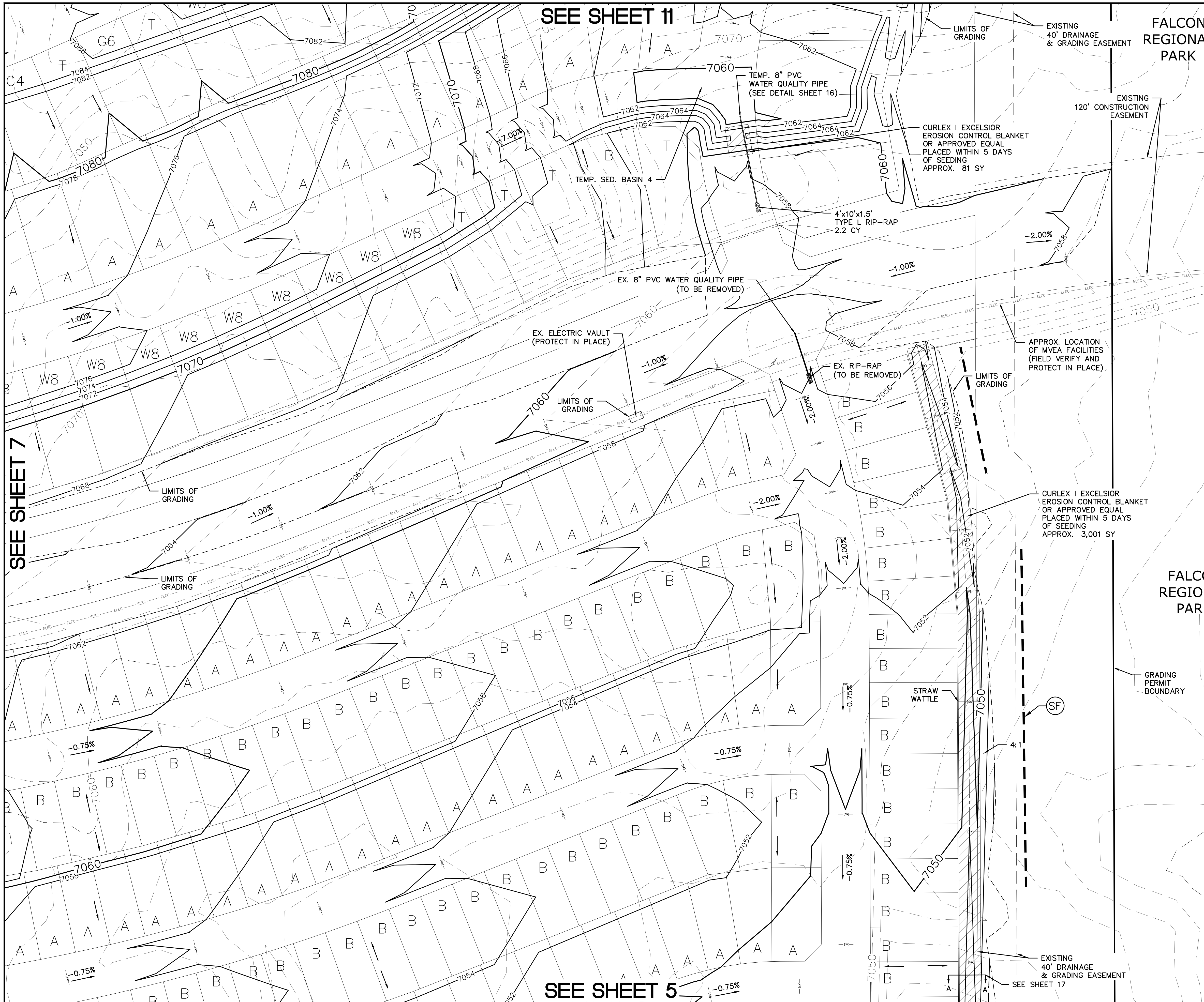
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**PROFESSIONAL ENGINEER**  
TWO WORKING DAYS  
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1	2	3	4	No.	Revisions	Date	Appr.
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>							
<p><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			7	of 23		
<p>PROFESSIONAL ENGINEER 31429 2022</p>							



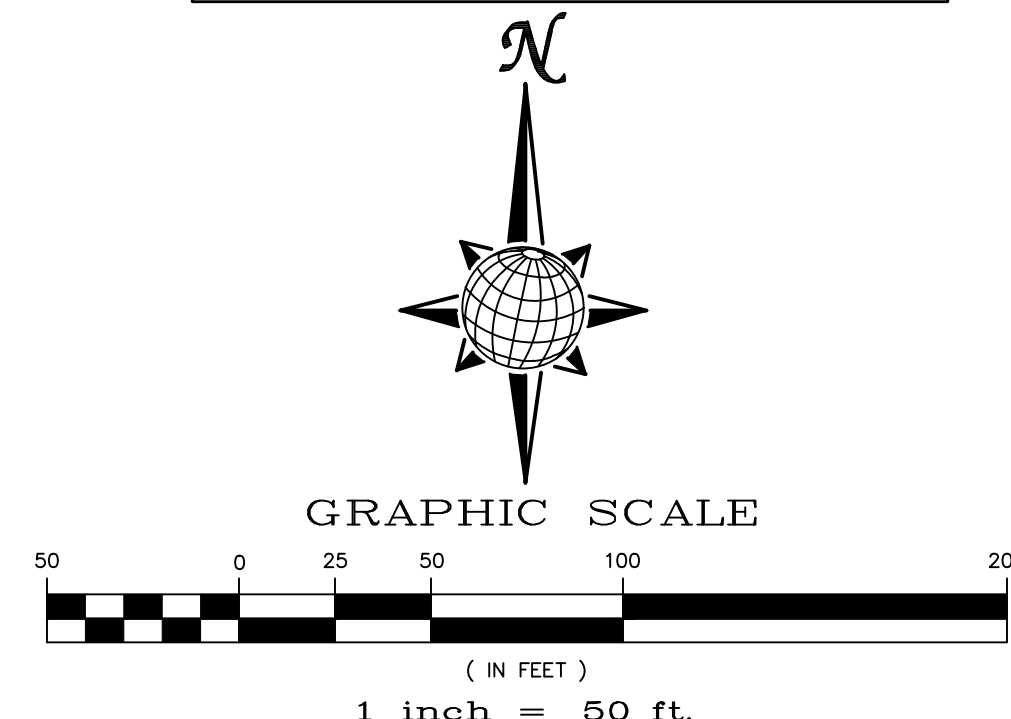
**INDEX MAP**  
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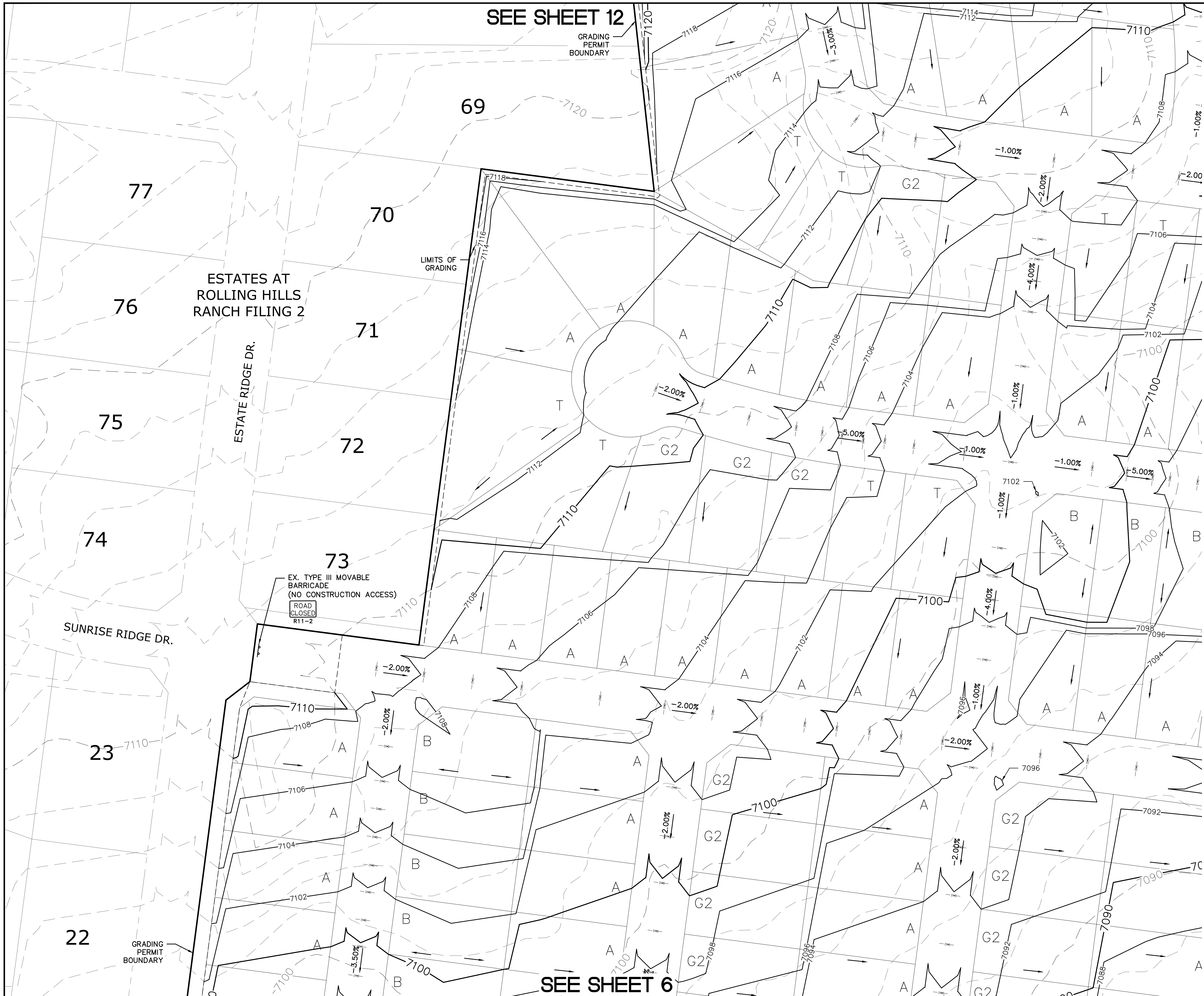
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**PROFESSIONAL ENGINEER**  
31429  
TWO WORKING DAYS  
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1	2	3	4	No.	Revisions
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
<b>MERIDIAN RANCH</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	8	of	23	
PCD PROJECT NO. EPG222					





SEE SHEET 12

GRADING PERMIT BOUNDARY

ESTATES AT ROLLING HILLS RANCH FILING 2

ESTATE RIDGE DR.

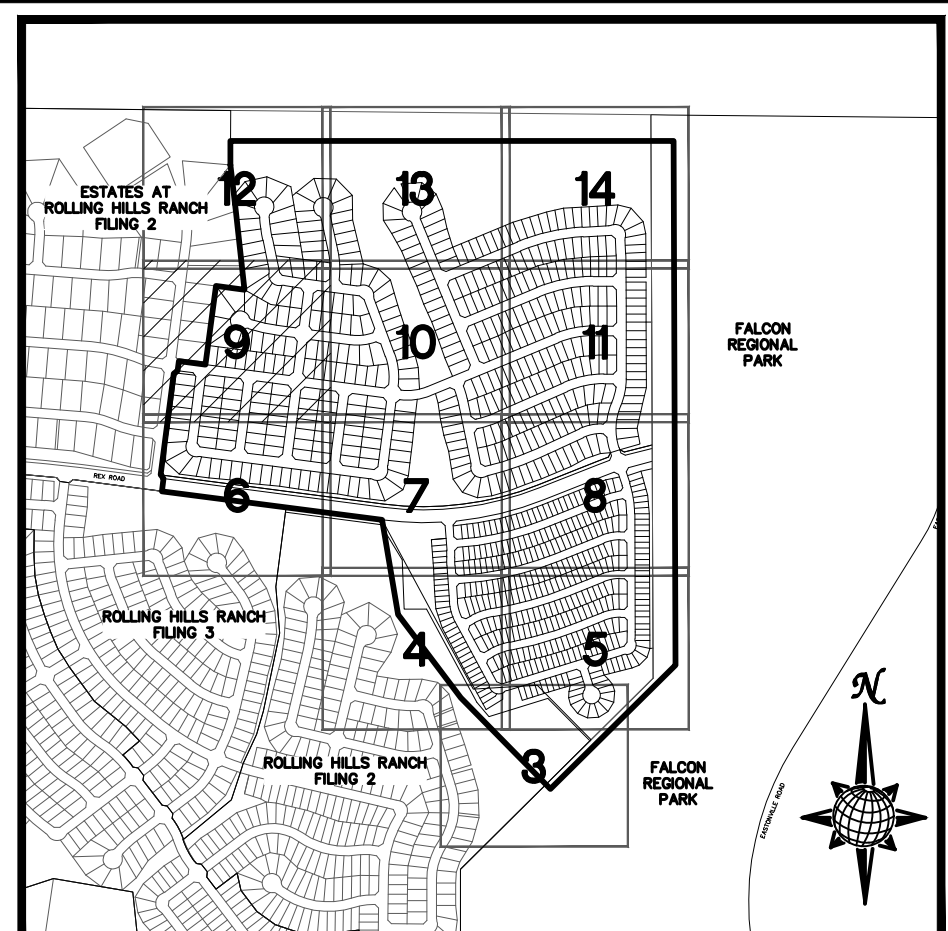
SUNRISE RIDGE DR.

EX. TYPE III MOVABLE BARRICADE (NO CONSTRUCTION ACCESS)

ROAD CLOSED R11-2

SEE SHEET 6

SEE SHEET 10



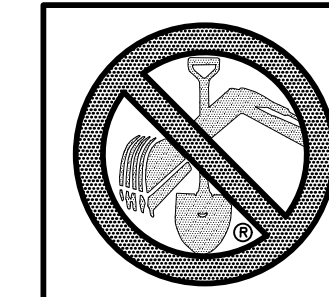
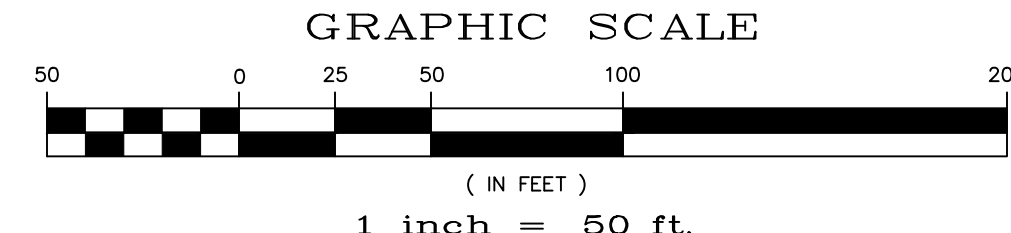
INDEX MAP N.T.S.

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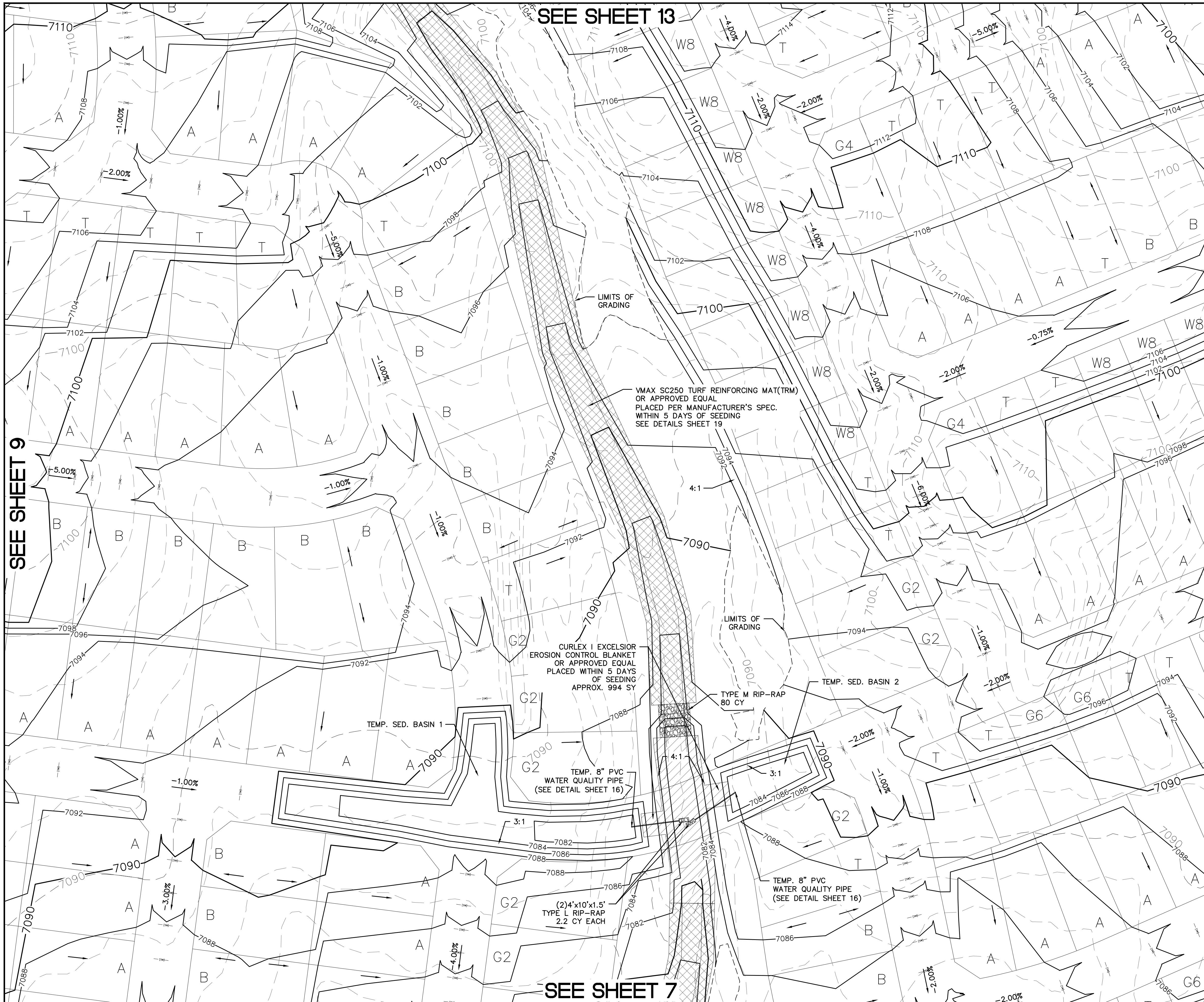
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Scale	AS SHOWN	9	of 23	Date	
PROFESSIONAL ENGINEER		PROFESSIONAL ENGINEER		Date	
Date		Date		Date	
Revisions		Revisions		Revisions	
No.		No.		No.	
Date		Date		Date	
Appr.		Appr.		Appr.	

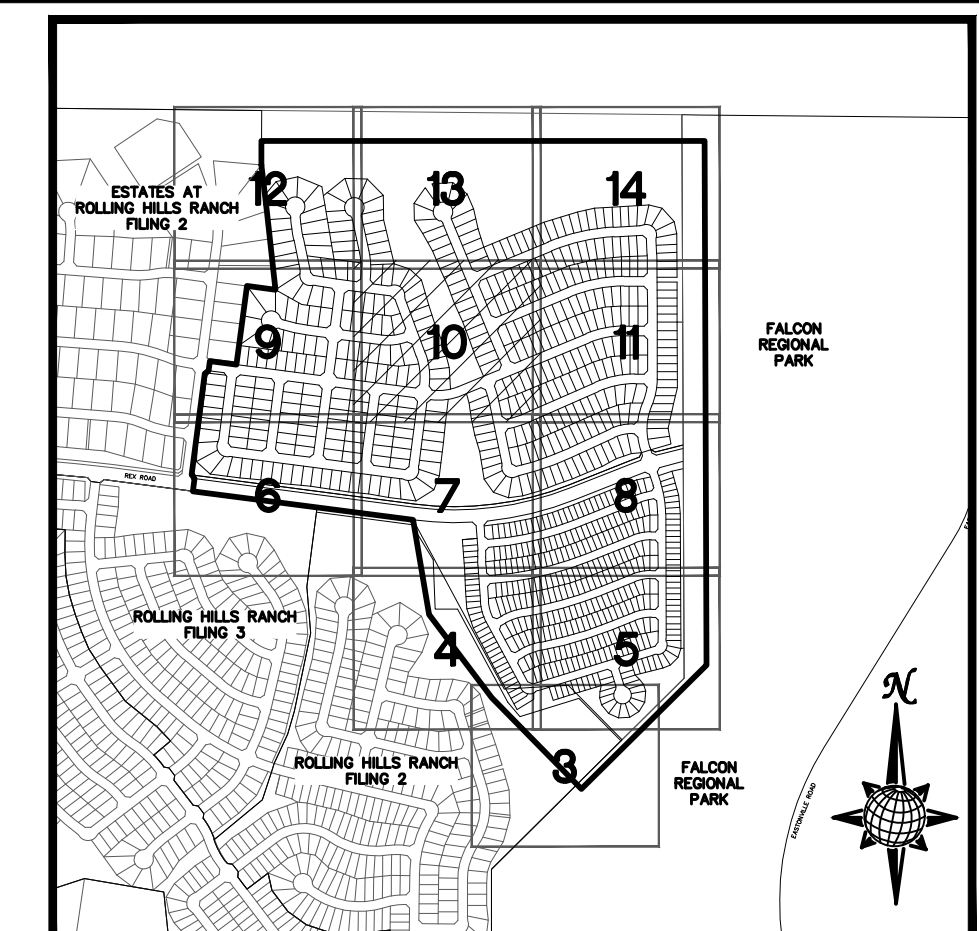


SEE SHEET 13

SEE SHEET 9

SEE SHEET 11

SEE SHEET 7



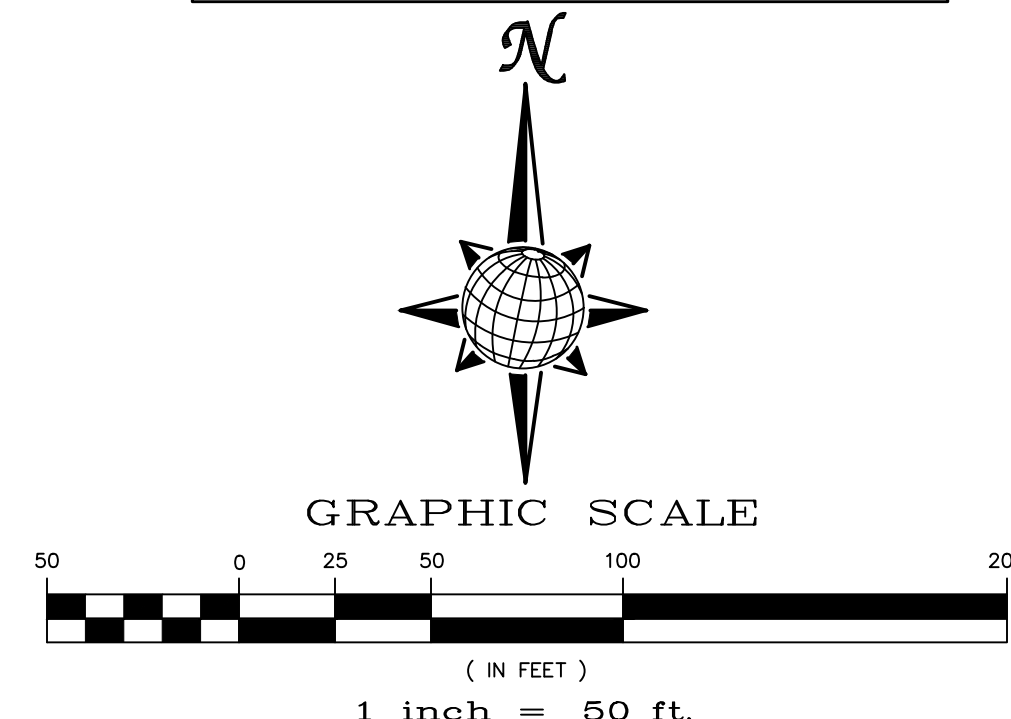
**INDEX MAP**  
N.T.S.

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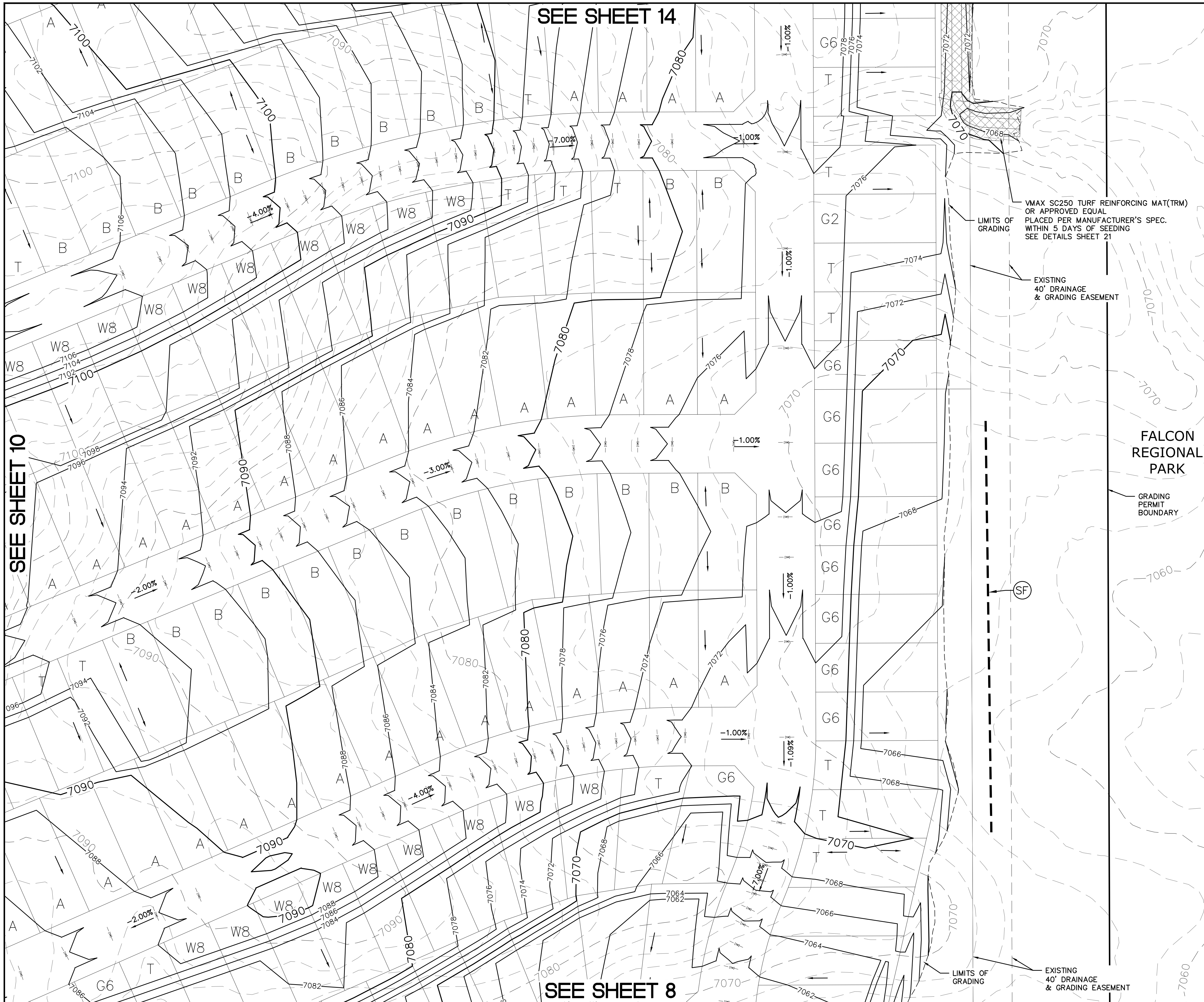
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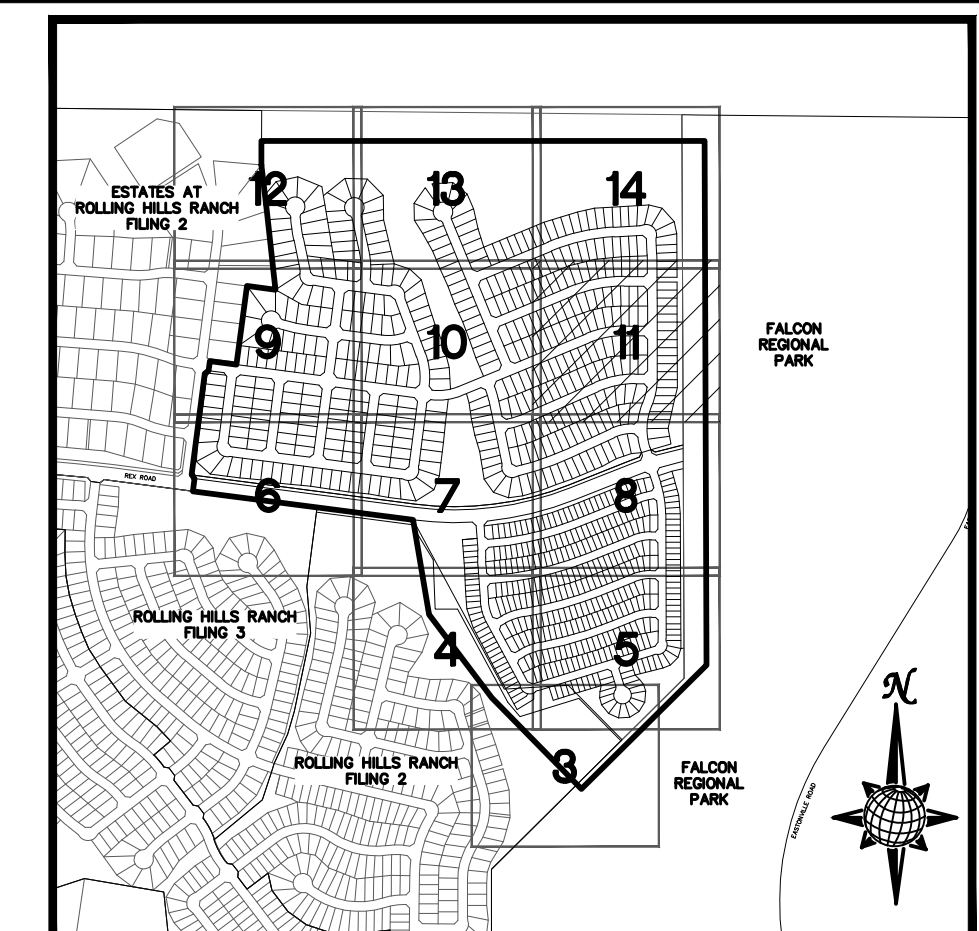
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Drawn by LOG	Checked by TAK	Date MAY 2022	Scale AS SHOWN
10 of 23		1 inch = 50 ft.	
TWO WORKING DAYS <b>BEFORE YOU DIG CALL 811</b>			
<small>OR UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987 (SEE COVER FOR LIST OF UTILITY CONTACTS)</small>			
Revisions		Date / Invt. / Appr. / Date	



SEE SHEET 14

SEE SHEET 10

SEE SHEET 8



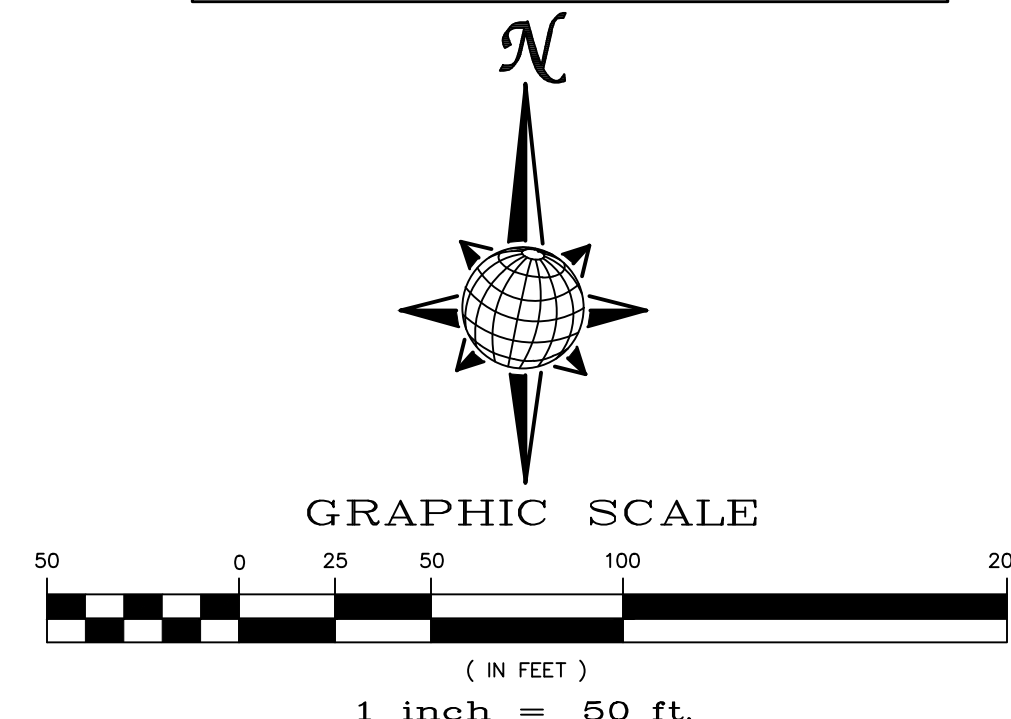
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		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	A	LOT GRADE TYPE

**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 2  
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		719.495.7444		719.495.2457	
		TELEPHONE:		FAX:					

<b>MERIDIAN RANCH</b>	

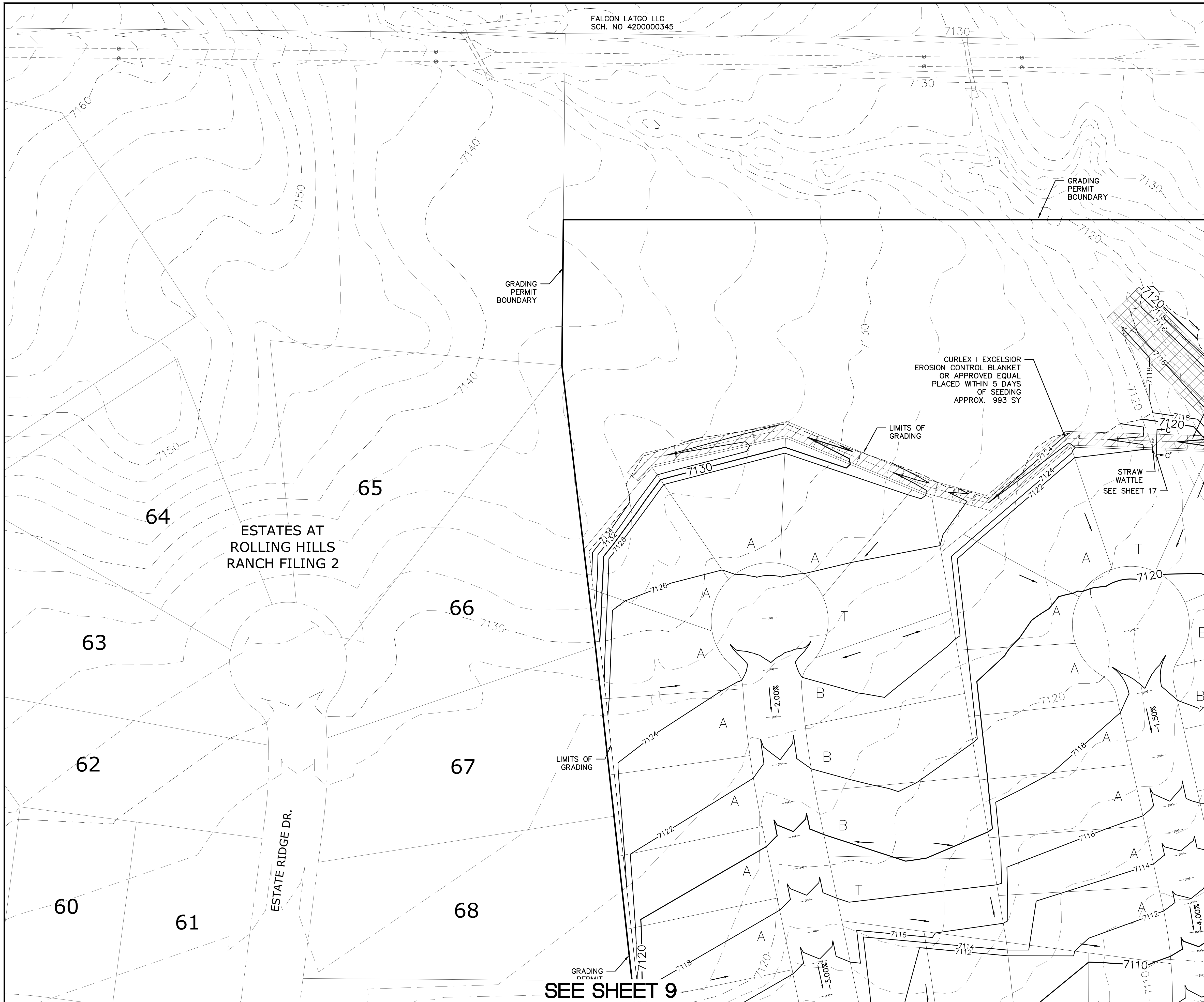
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET	
--	--

Drawn by	LOG	Checked by	TAK	Date	MAY 2022
Scale	AS SHOWN	11	of	23	

PROFESSIONAL ENGINEER	



FALCON LATGO LLC  
SCH. NO 4200000345

GRADING PERMIT BOUNDARY

GRADING PERMIT BOUNDARY

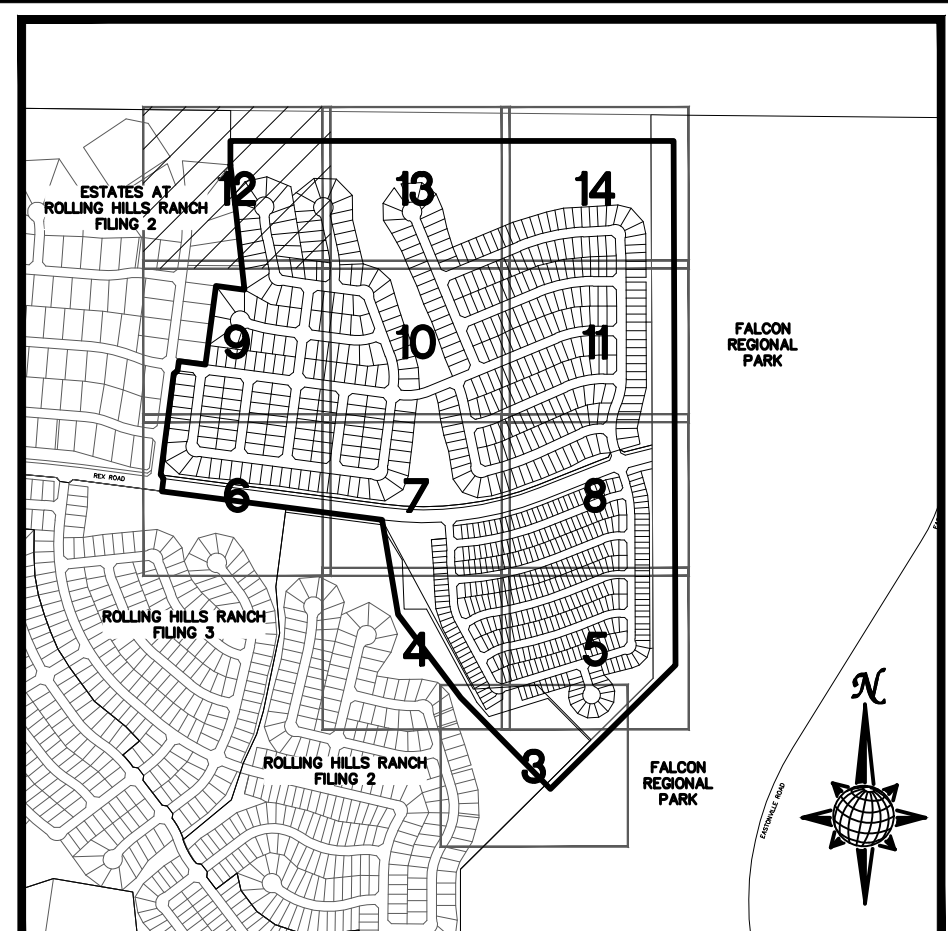
CURLEX 1 EXCELSIOR  
EROSION CONTROL BLANKET  
OR APPROVED EQUAL  
PLACED WITHIN 5 DAYS  
OF SEEDING  
APPROX. 993 SY

LIMITS OF GRADING

STRAW WATTLE  
SEE SHEET 17

LIMITS OF GRADING

SEE SHEET 9



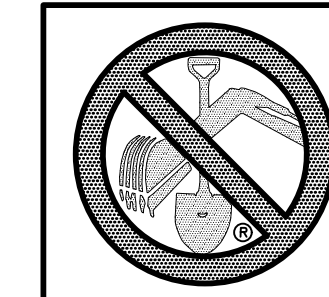
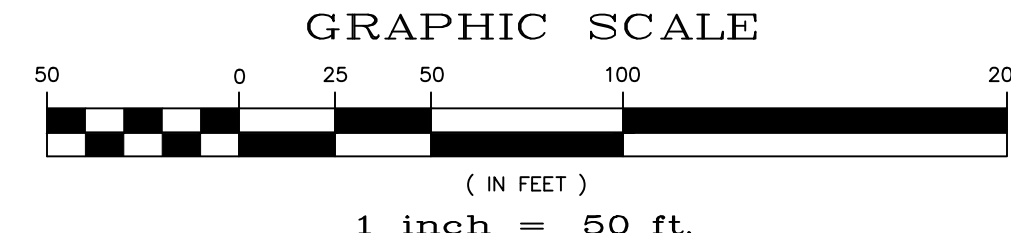
**INDEX MAP**  
N.T.S.

**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')
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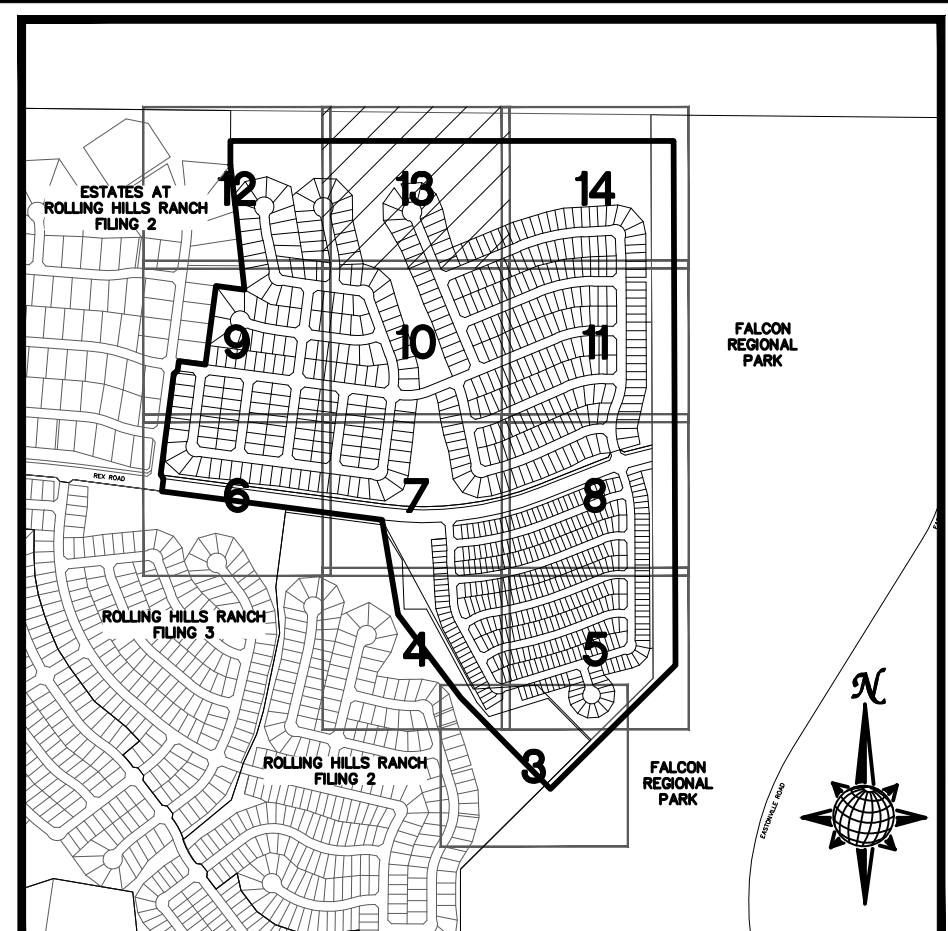
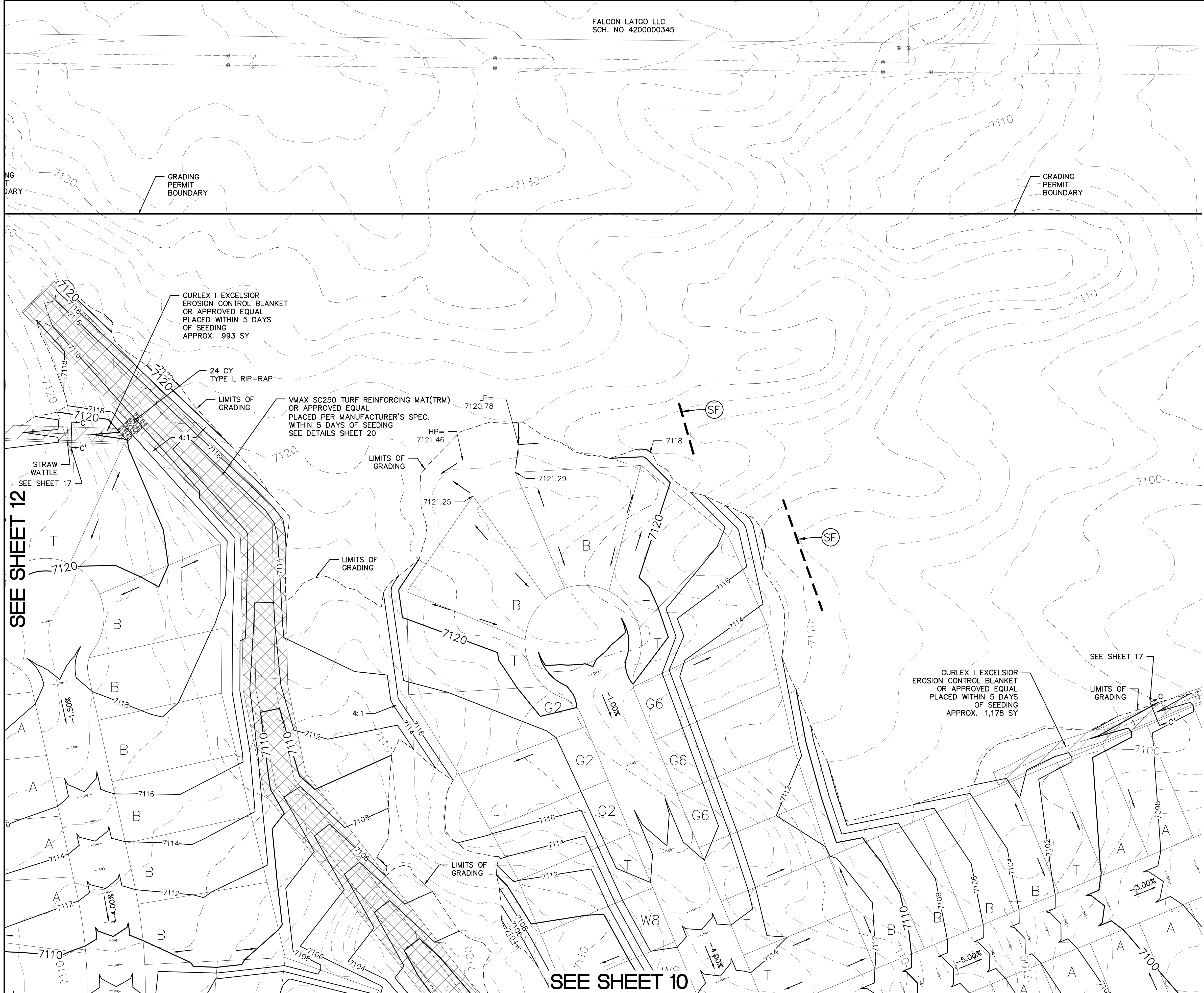
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
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1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

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



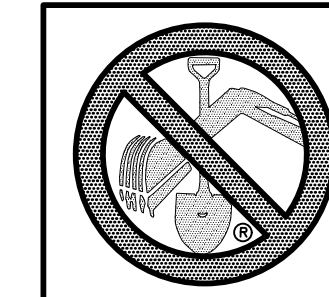
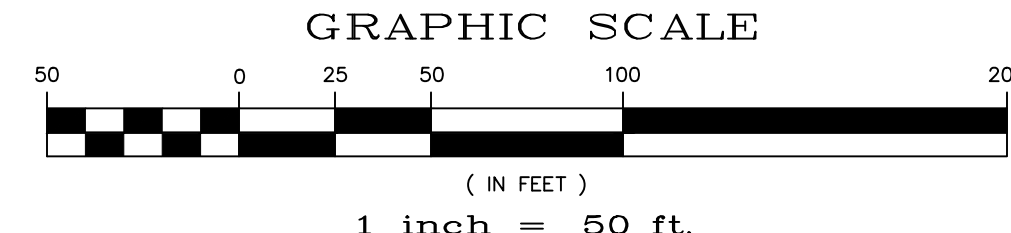
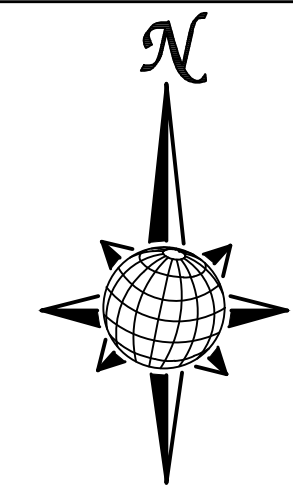
**INDEX MAP**  
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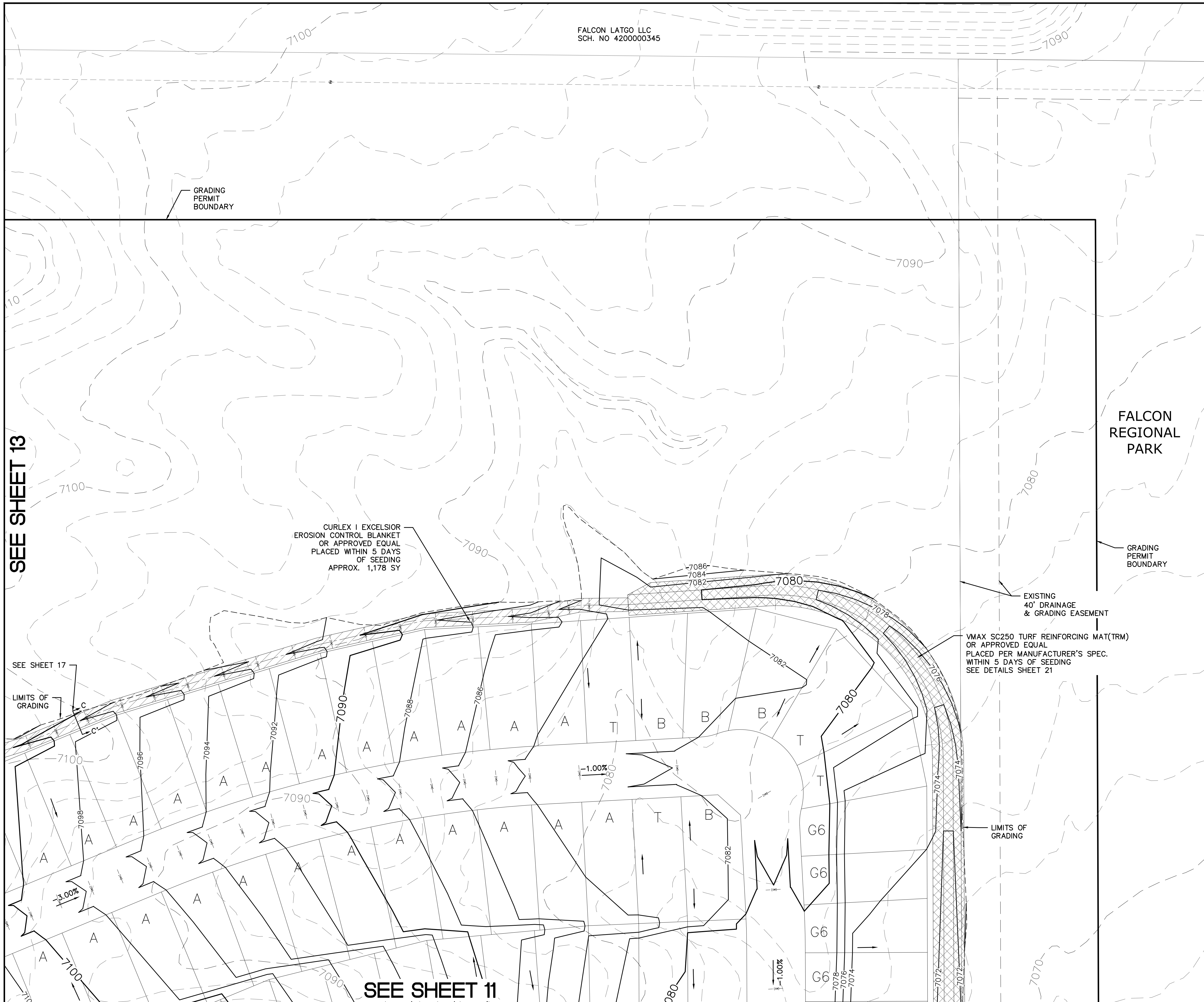
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1	2	3	4	No.
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<b>MERIDIAN RANCH</b>				
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MAY 2022
Scale	13 of 23			

SEE SHEET 12

SEE SHEET 14

SEE SHEET 10

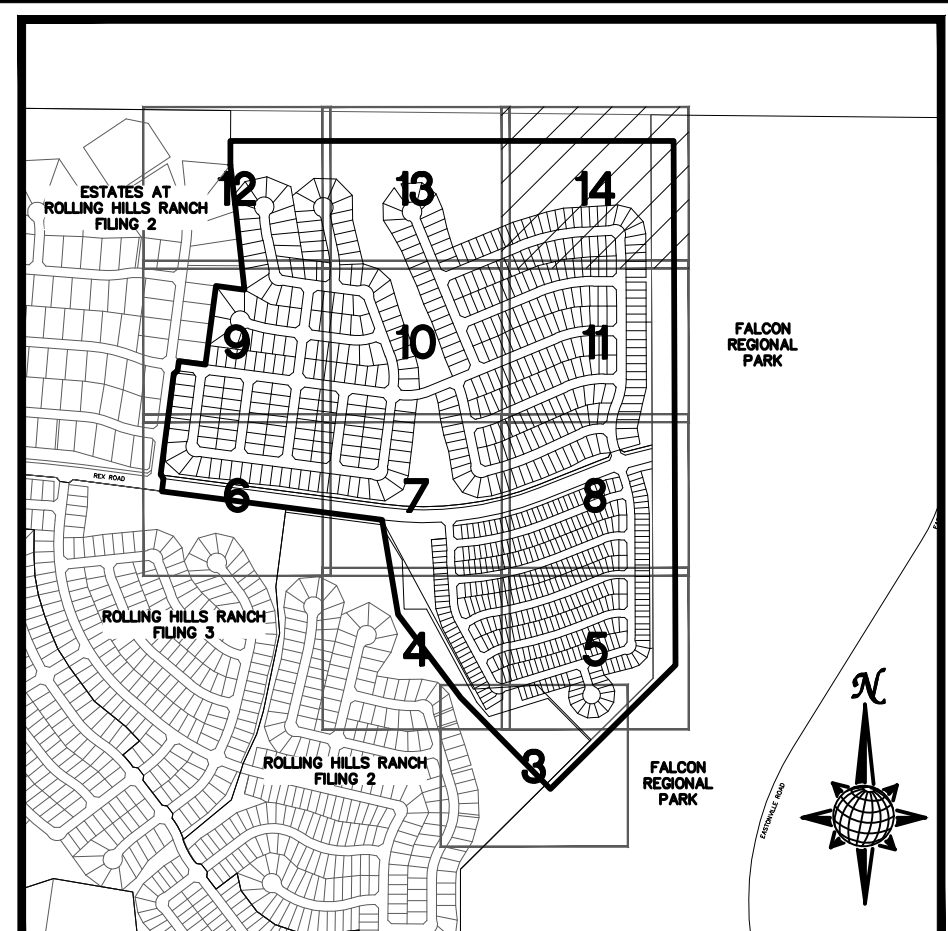


SEE SHEET 13

SEE SHEET 17

SEE SHEET 11

FALCON LATGO LLC  
SCH. NO 420000345



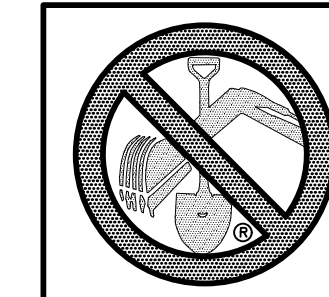
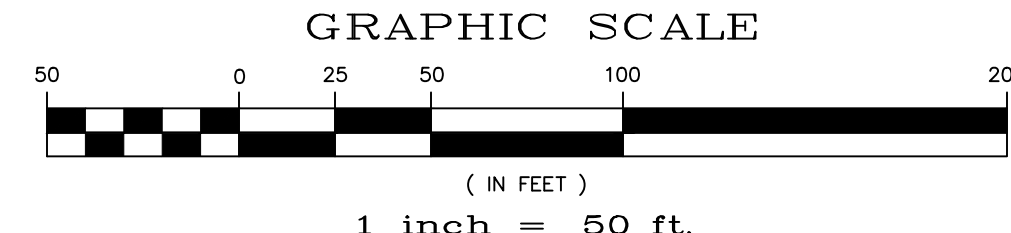
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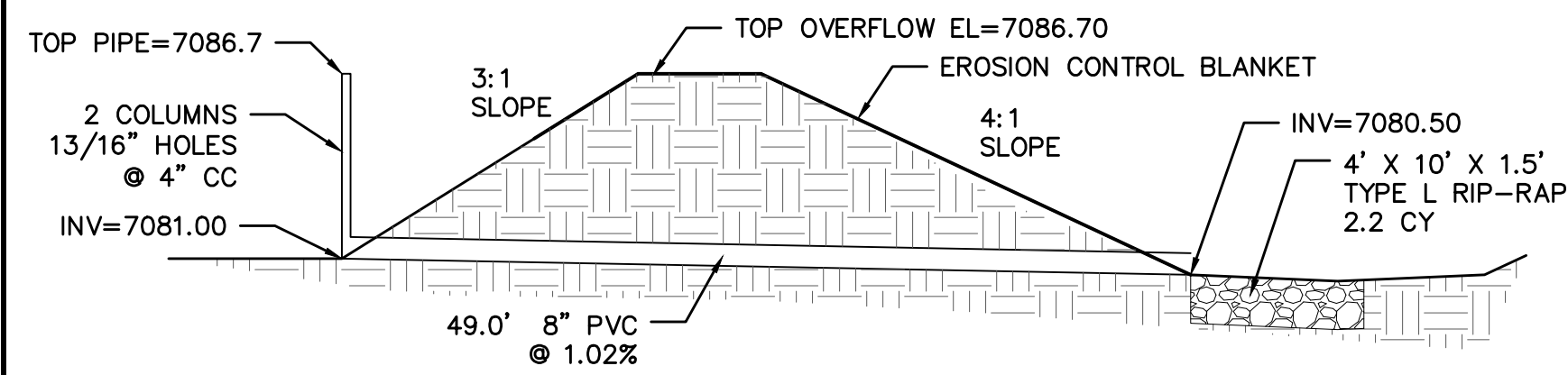
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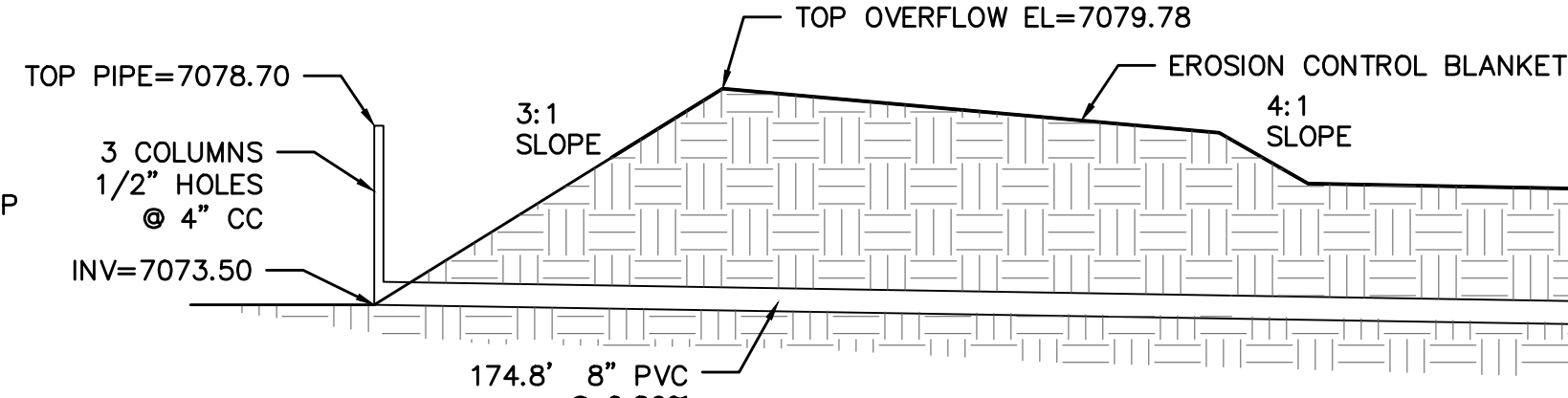
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Drawn by	LOG	Checked by	TAK	Date	MAY 2022
Scale	AS SHOWN	14	of 23		

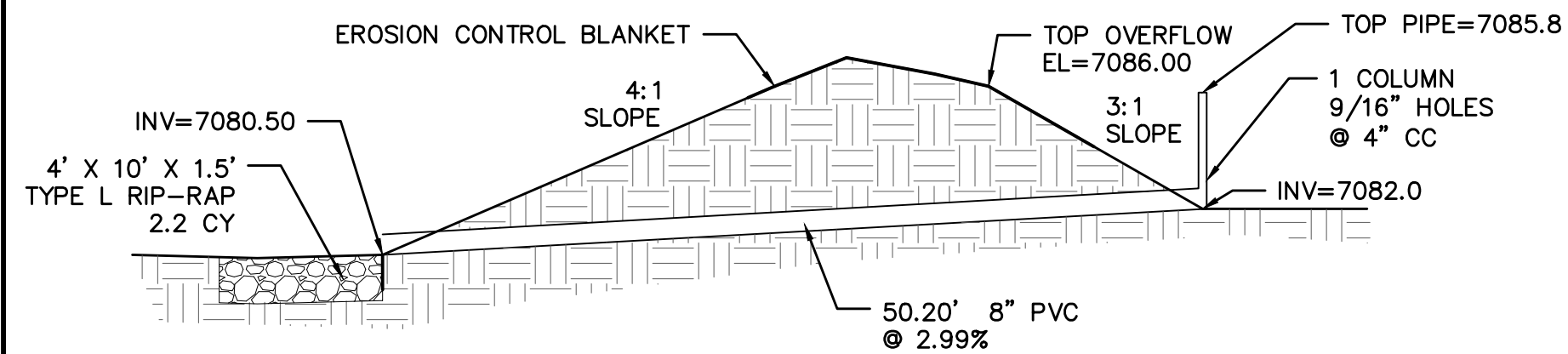




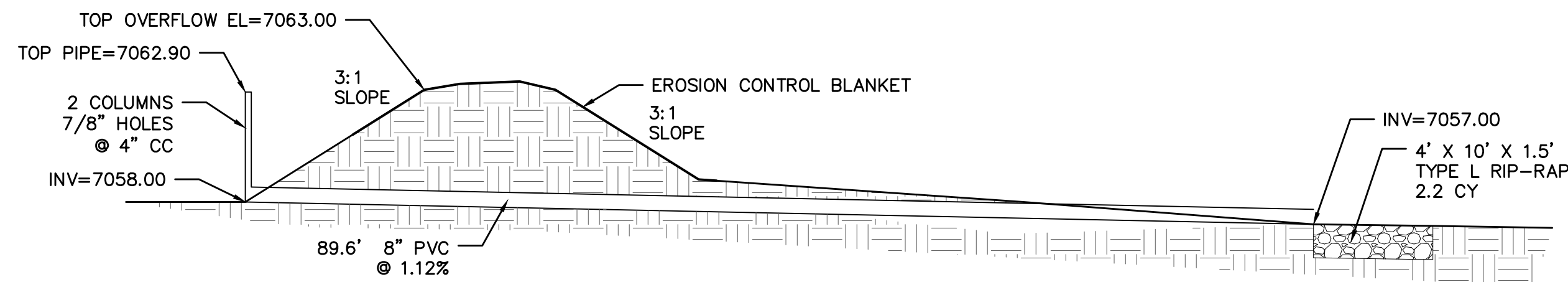
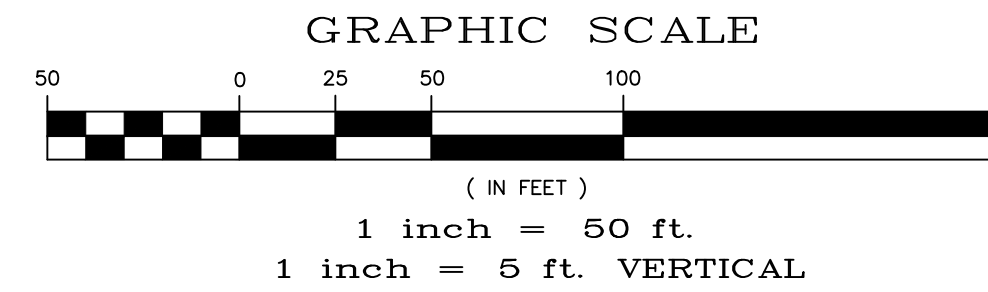
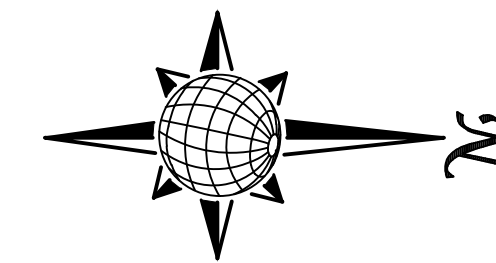
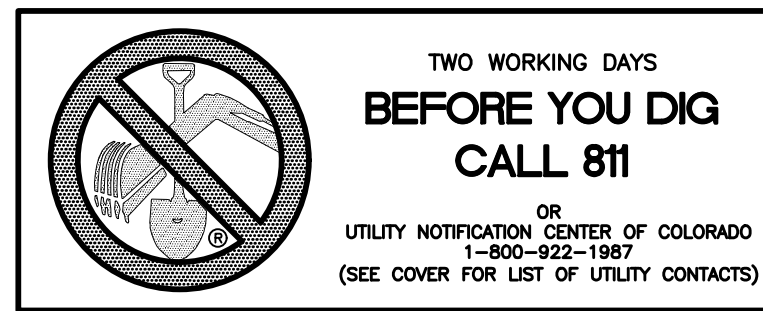
**TEMPORARY SEDIMENTATION POND 1**  
 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
 NTS



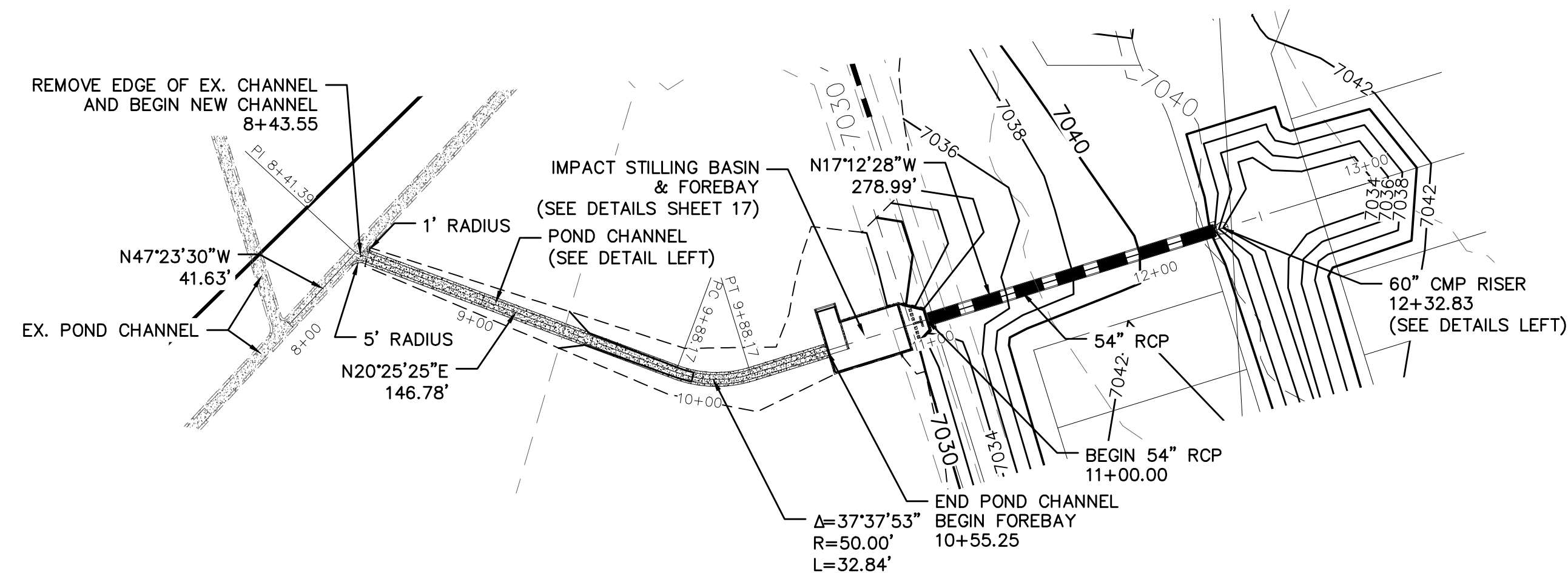
**TEMPORARY SEDIMENTATION POND 3**  
 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
 NTS



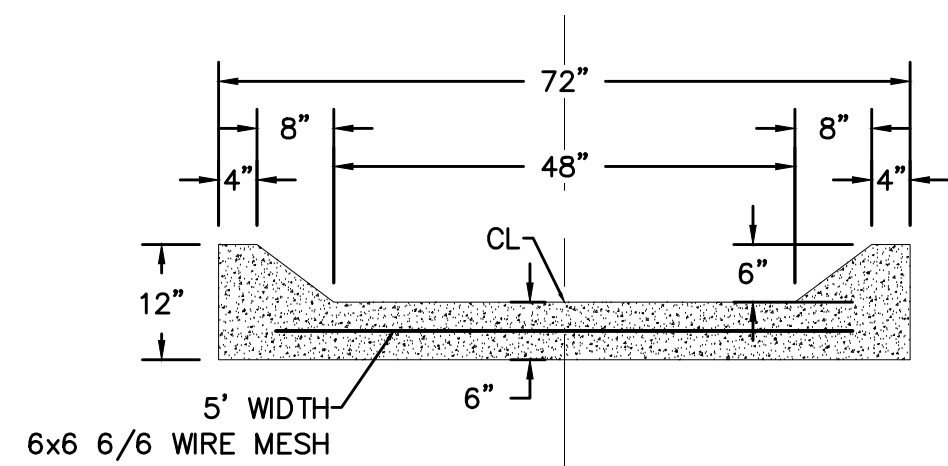
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 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
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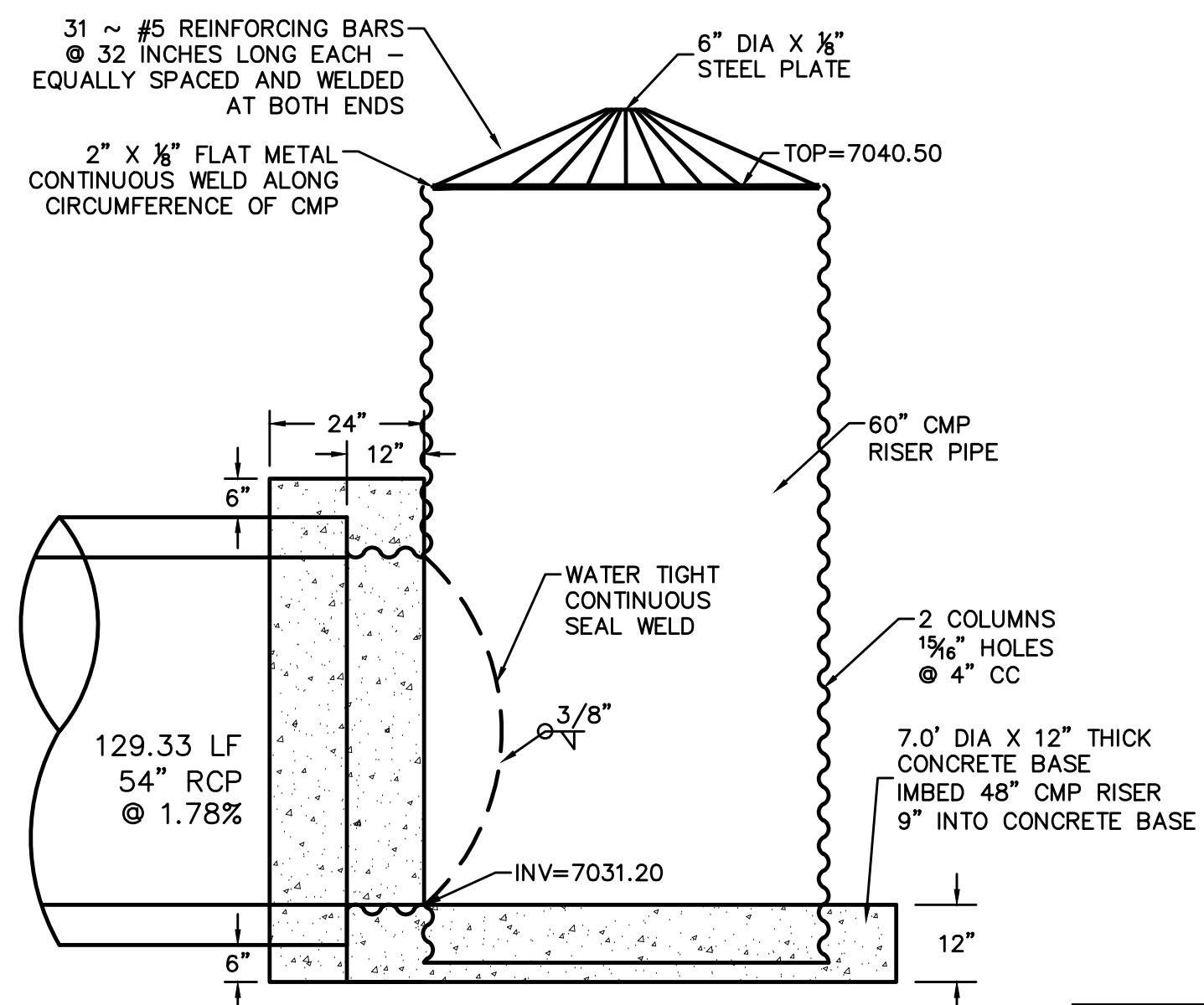
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 CROSS SECTION  
 NTS



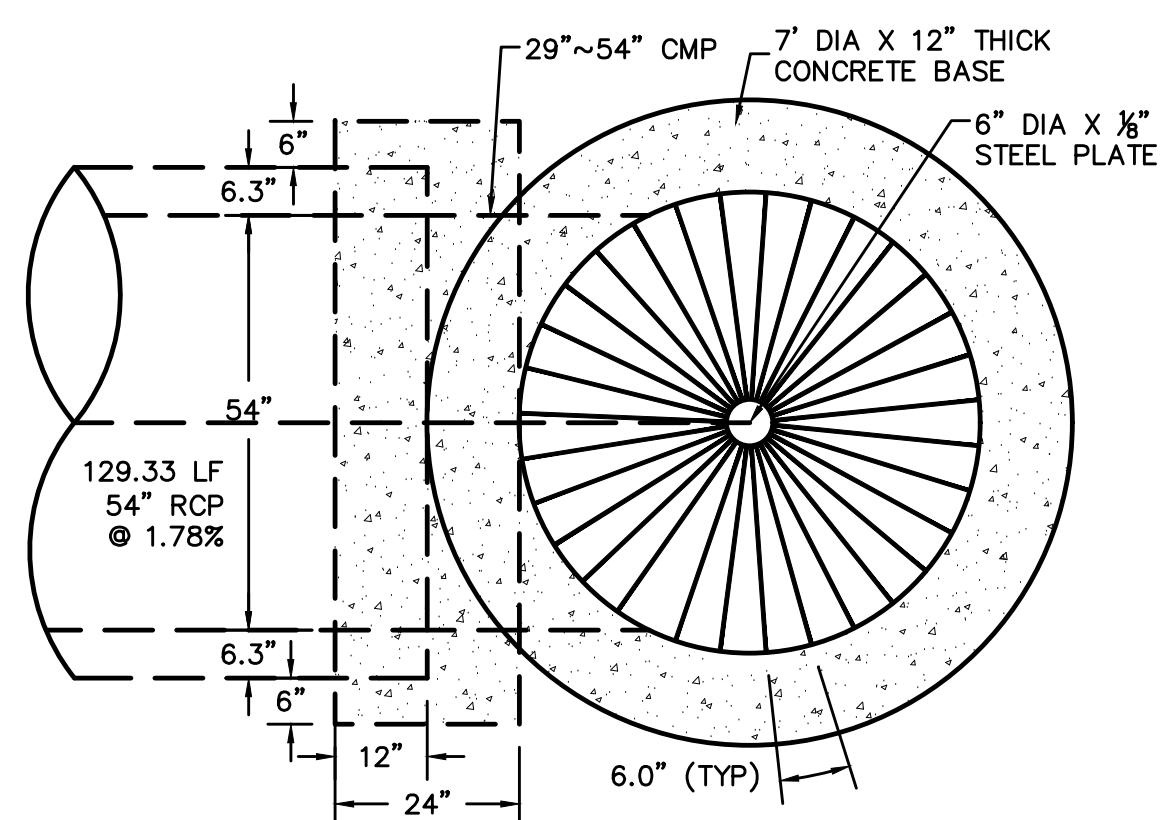
**TEMP. SED. BASIN 5 OUTLET**



**CONCRETE POND CHANNEL**  
 CROSS SECTION DETAIL  
 NTS

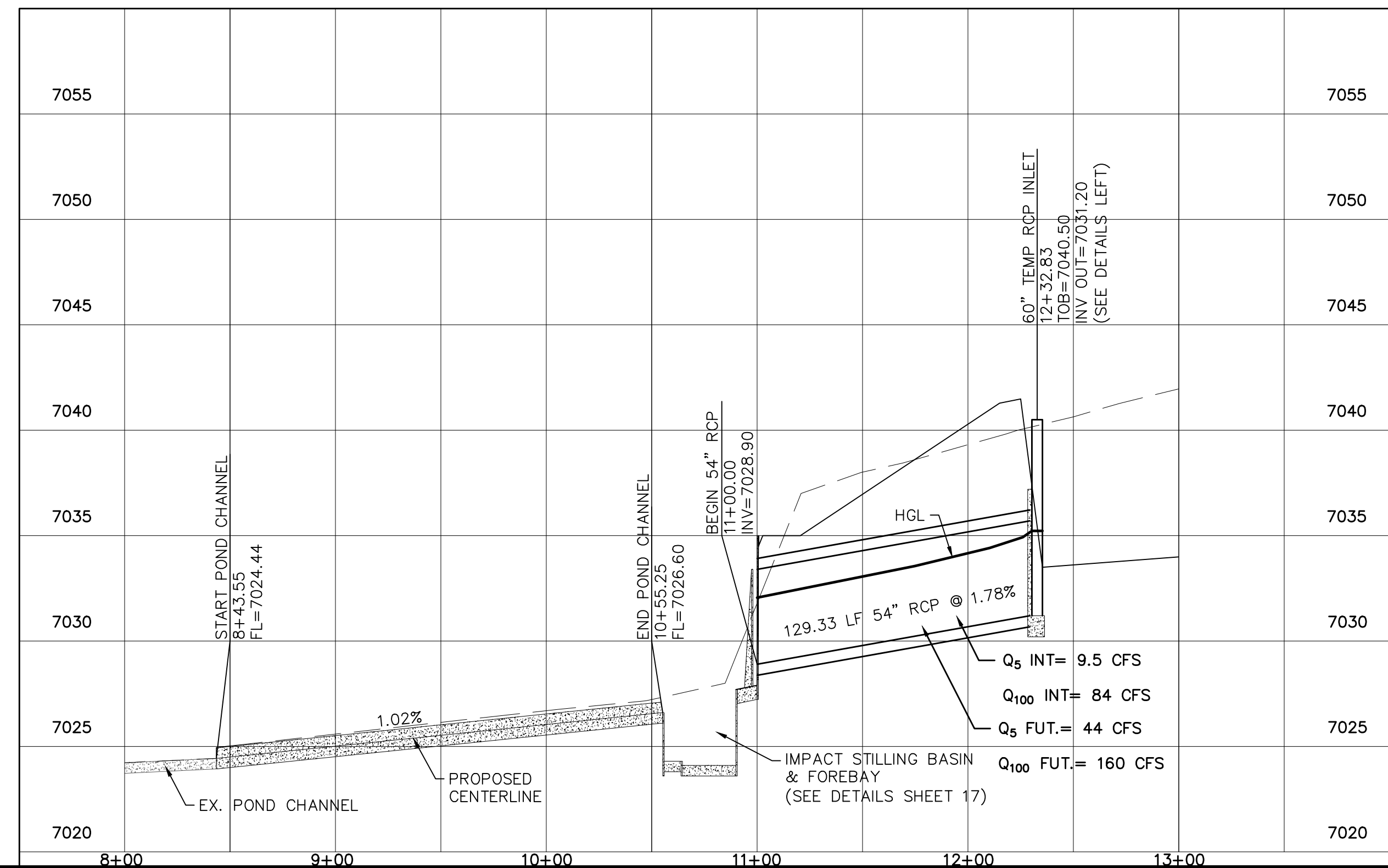


**CONTROL STRUCTURE**  
 SIDE VIEW  
 NTS



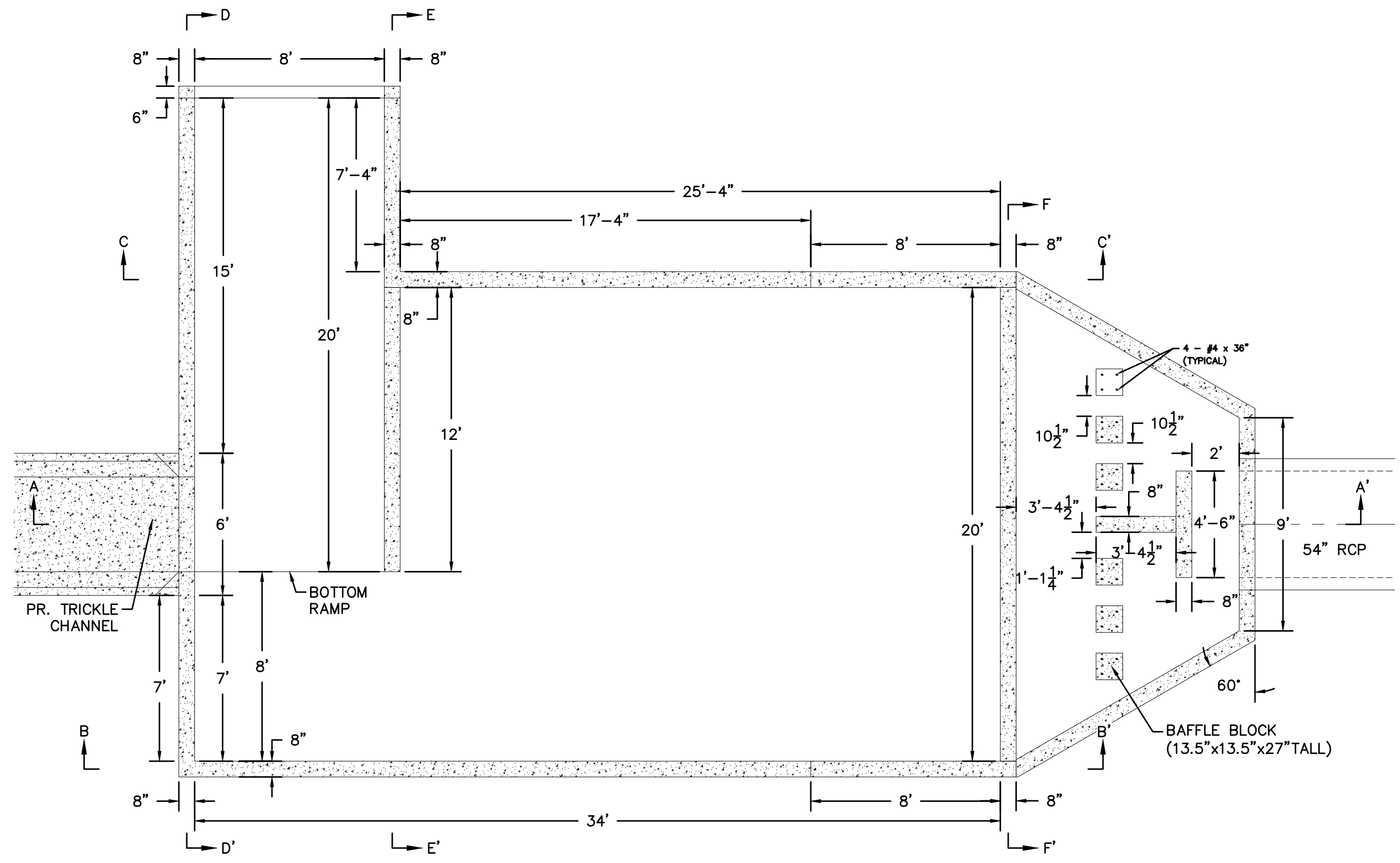
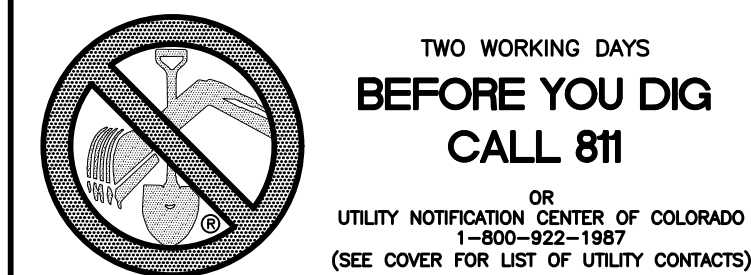
**CONTROL STRUCTURE**  
 TOP VIEW  
 NTS

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

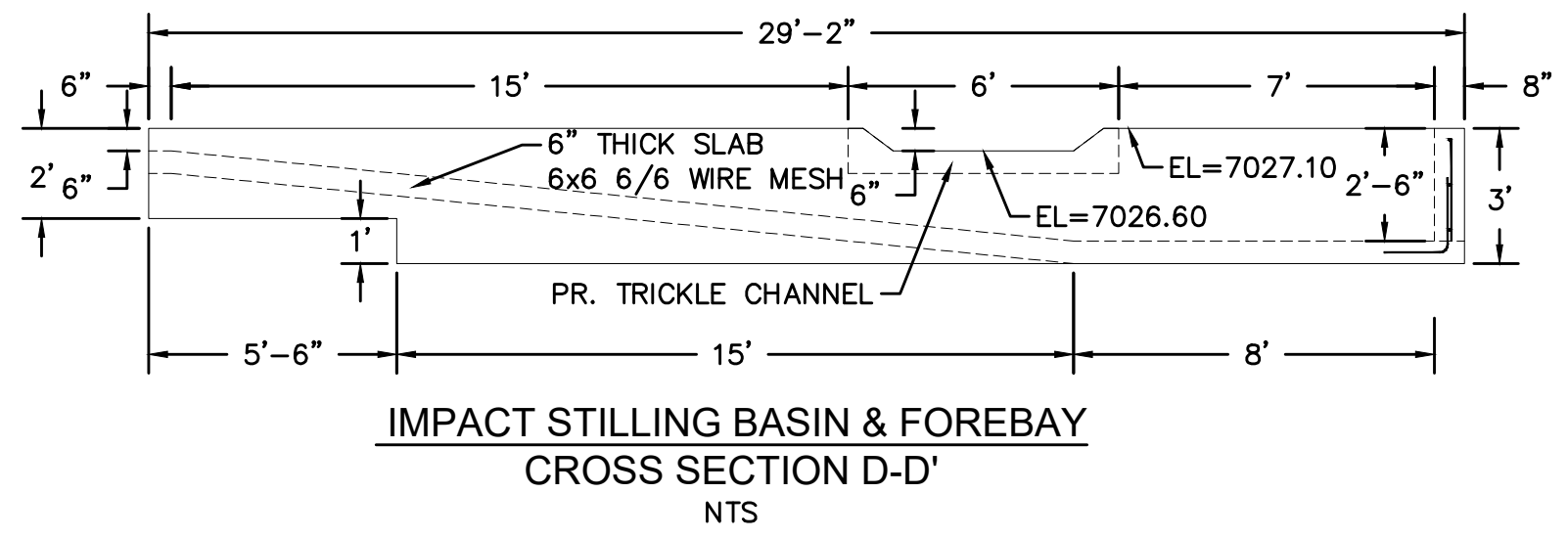


		Date	
		Appr.	
		Date	
		Revisions	
No.			
1	2	3	4
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
<b>MERIDIAN RANCH</b>			
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET			
Drawn by	LOG	Checked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

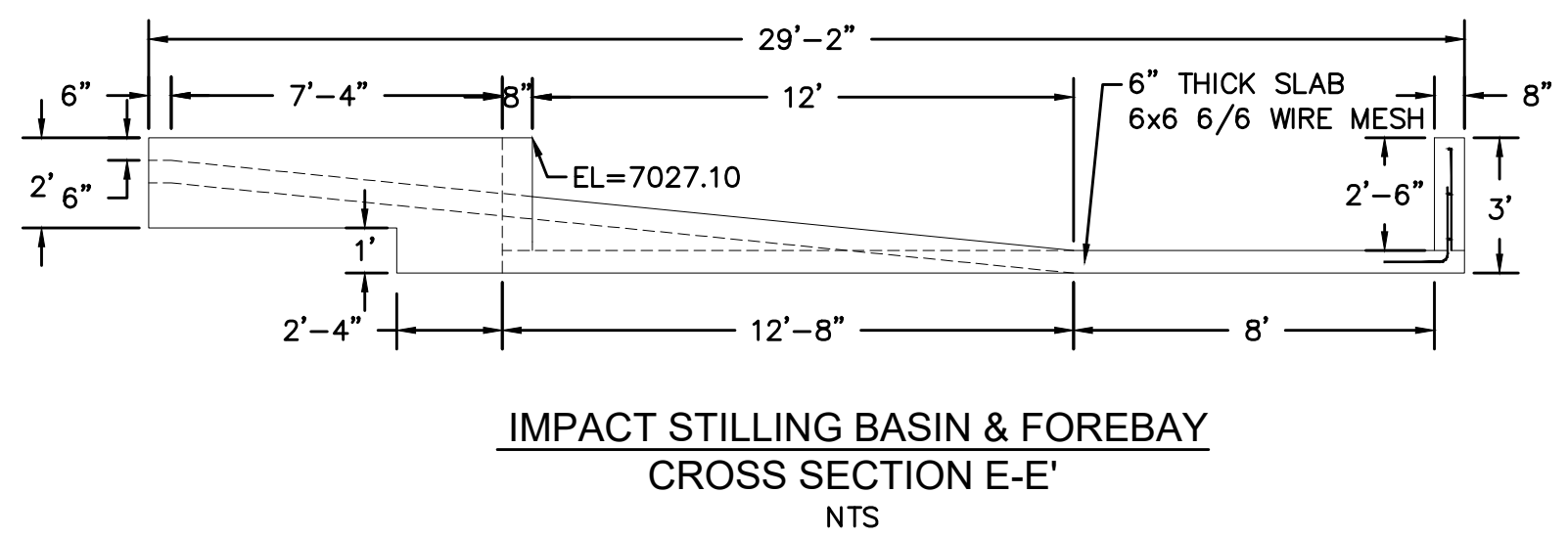




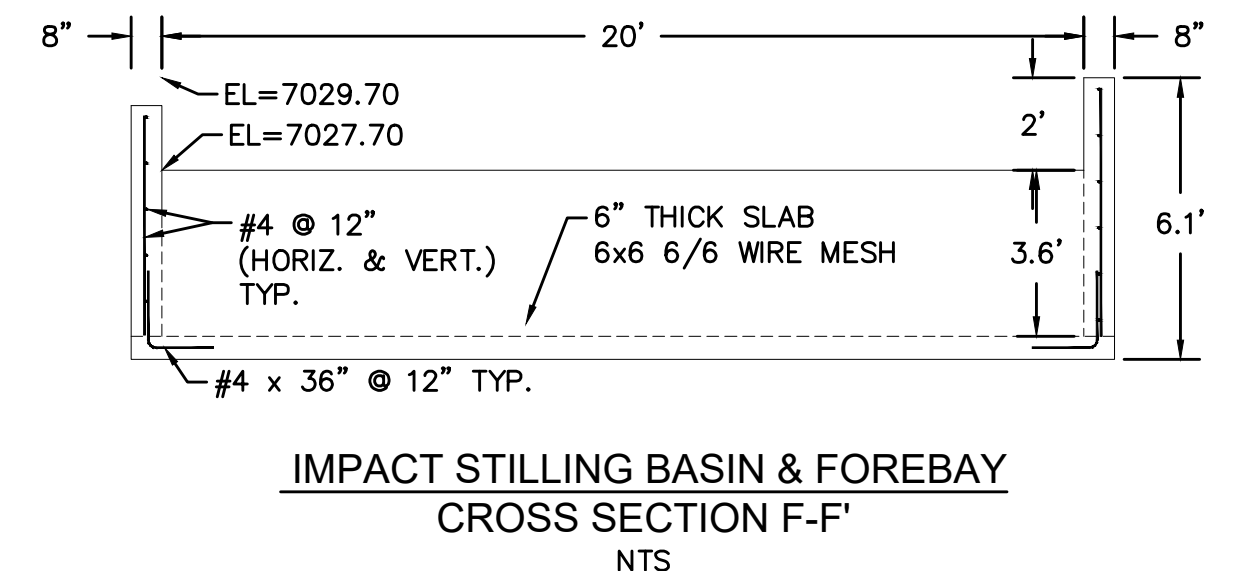
**IMPACT STILLING BASIN & FOREBAY  
PLAN VIEW  
NTS**



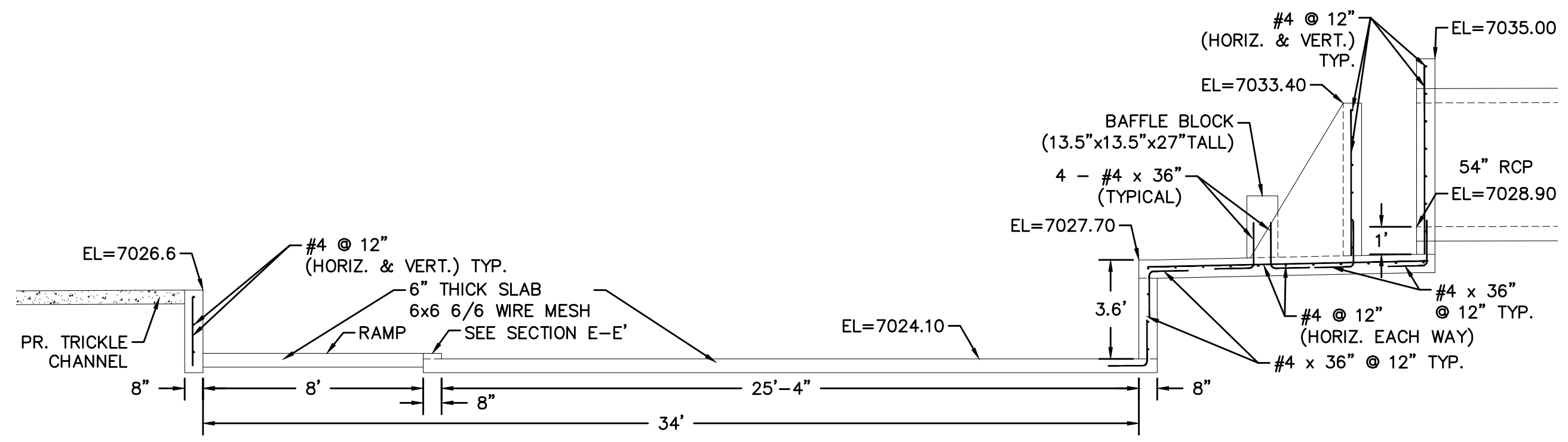
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CROSS SECTION D-D'  
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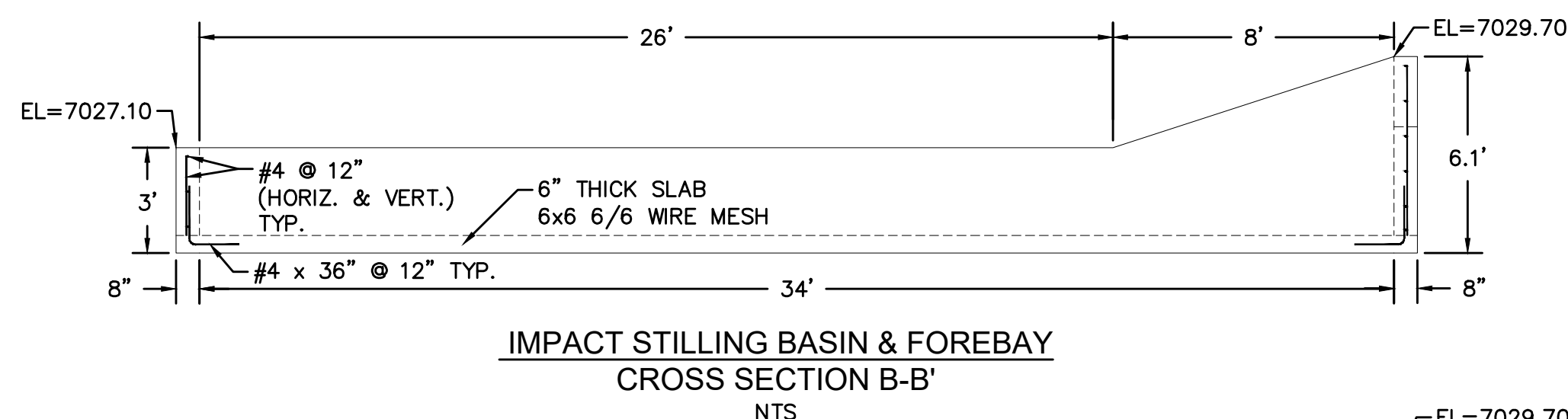
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CROSS SECTION E-E'  
NTS**



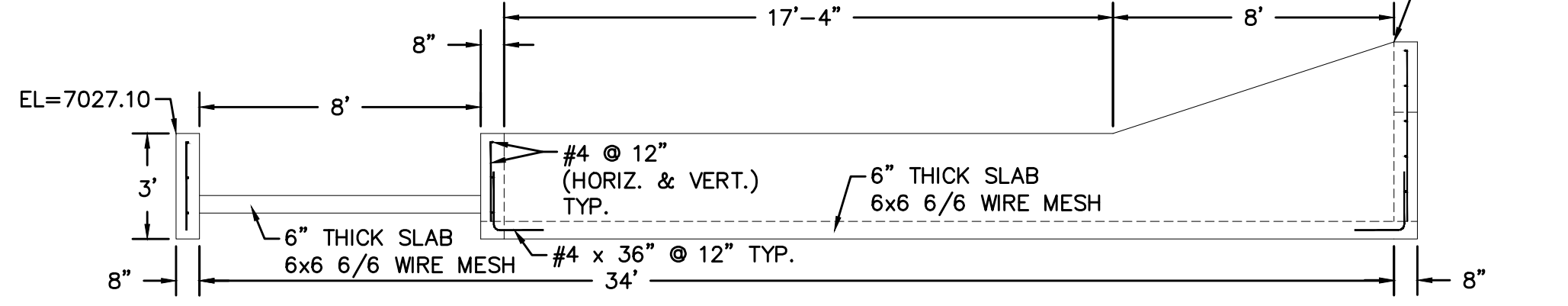
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CROSS SECTION F-F'  
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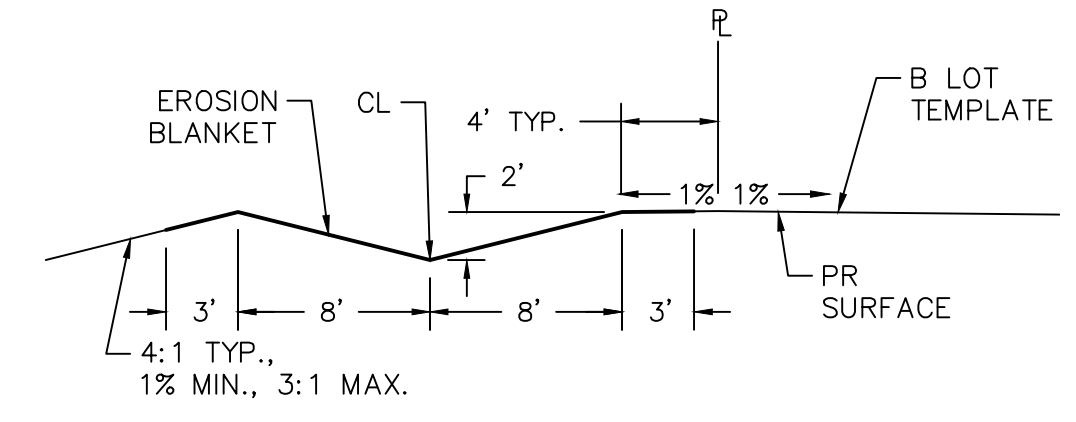
**IMPACT STILLING BASIN & FOREBAY  
CROSS SECTION A-A'  
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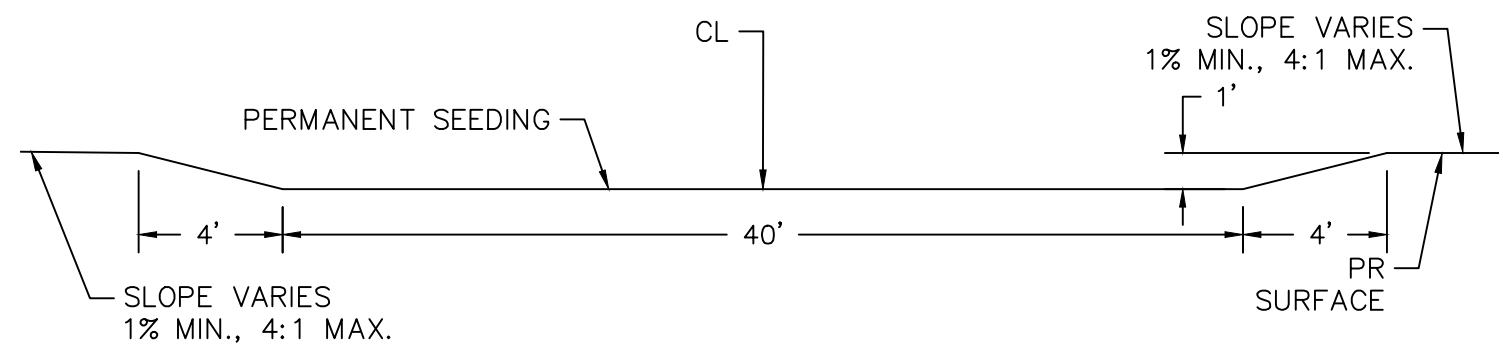
**IMPACT STILLING BASIN & FOREBAY  
CROSS SECTION B-B'  
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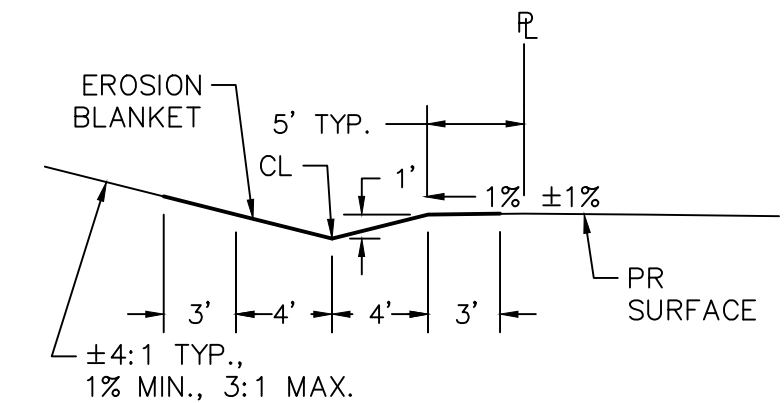
**IMPACT STILLING BASIN & FOREBAY  
CROSS SECTION C-C'  
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**DETAIL A-A'  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS**

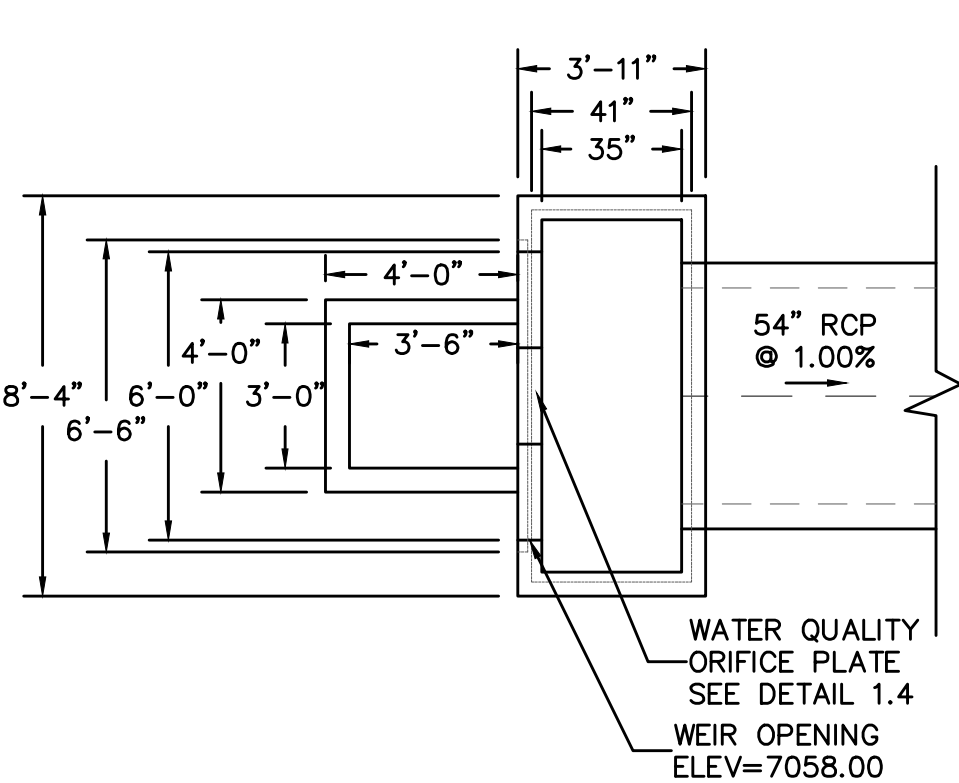


**DETAIL B-B'  
CROSS SECTION  
NTS**

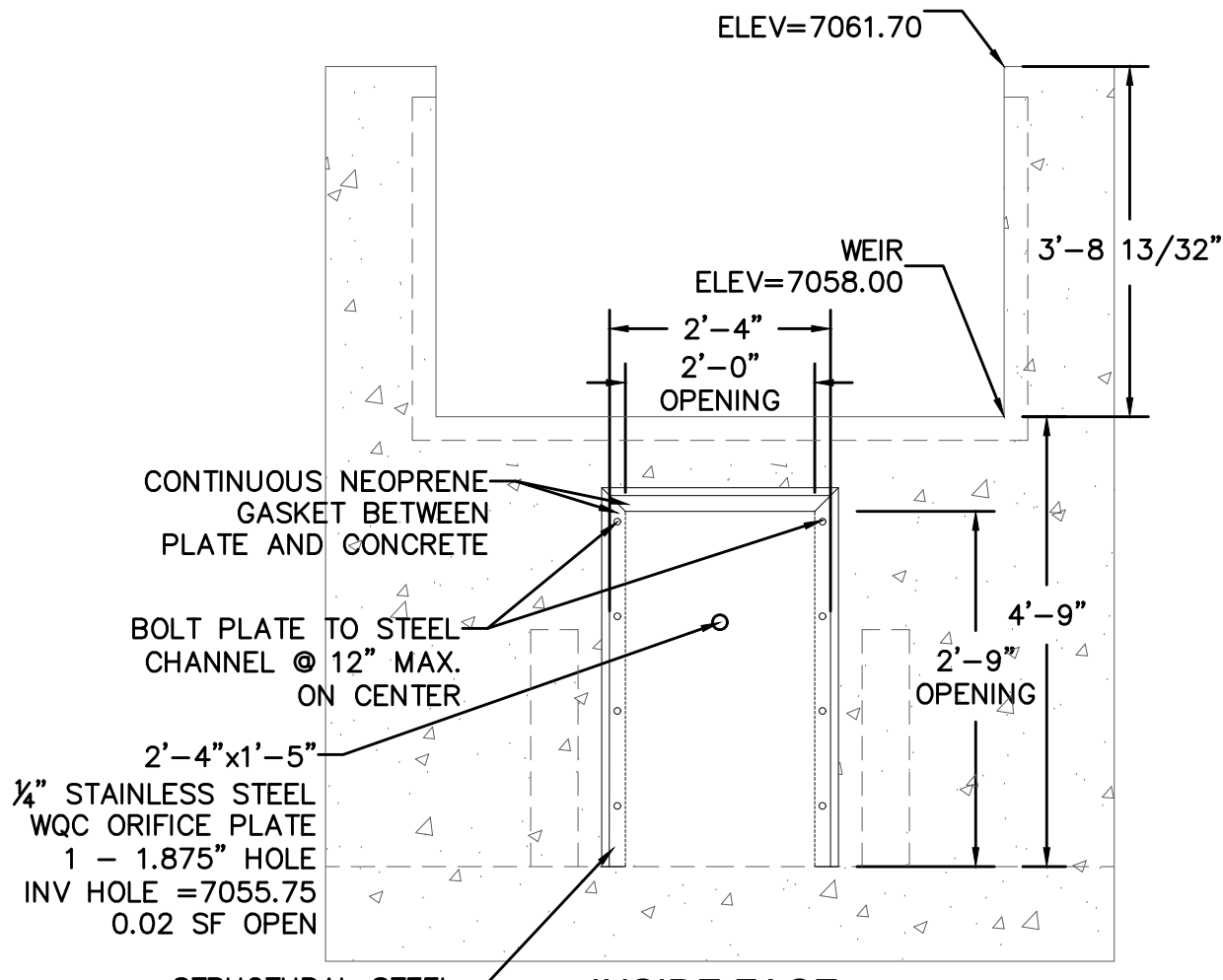


**DETAIL C-C'  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS**

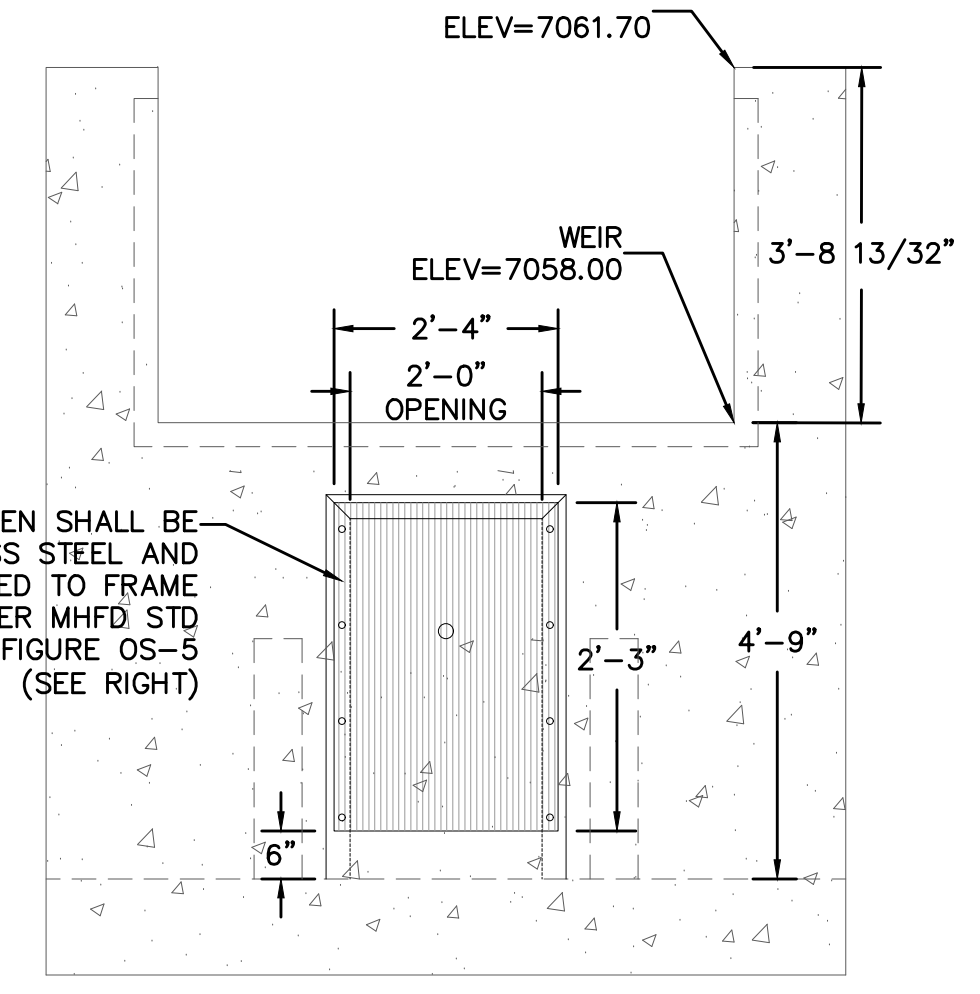
Date		Appr.		Date		Invt.		Date	
No.		Revisions		No.		Revisions		No.	
1		2		3		4		5	
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>									
<p><b>MERIDIAN RANCH</b></p>									
<p>PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET</p>									
Drawn by	LOG	Checked by	TAK	Date	MAY 2022				
Scale	AS SHOWN			17	of 23				



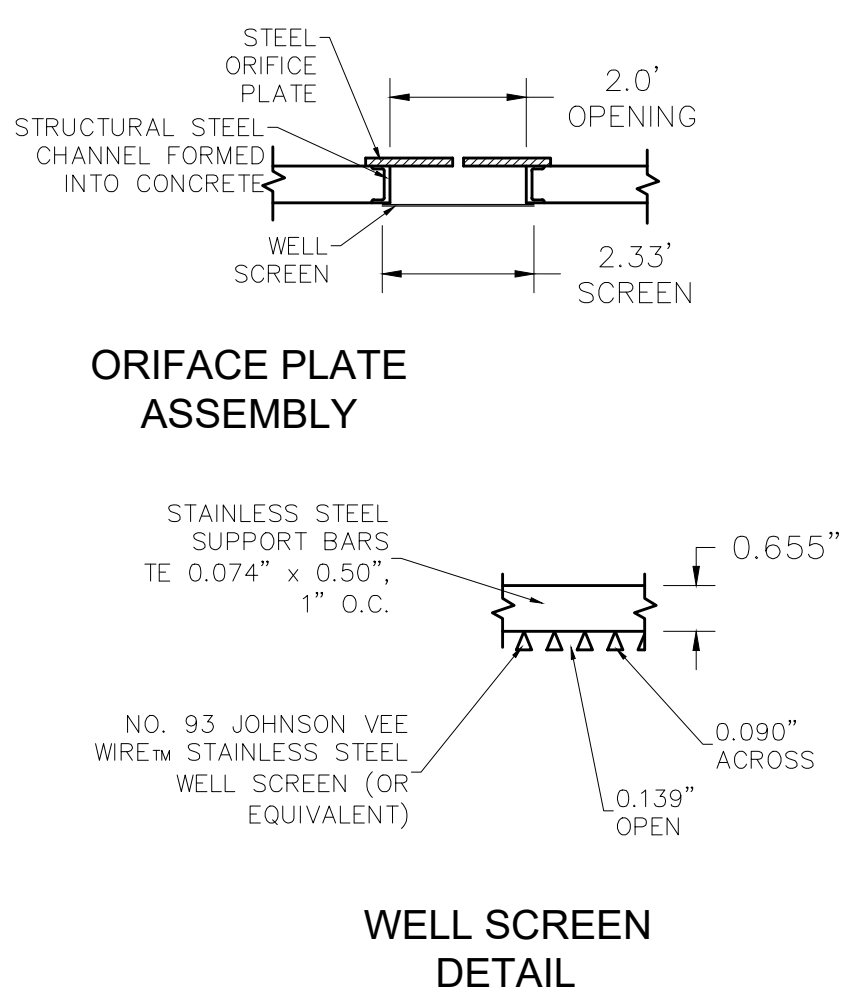
**DETAIL 1.1**  
OUTLET STRUCTURE  
PLAN VIEW  
NTS



**DETAIL 1.4**  
INSIDE FACE  
ORIFACE PLATE  
NTS



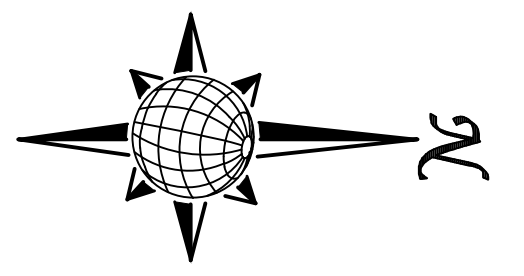
**DETAIL 1.4**  
OUTSIDE FACE  
WELL SCREEN  
NTS



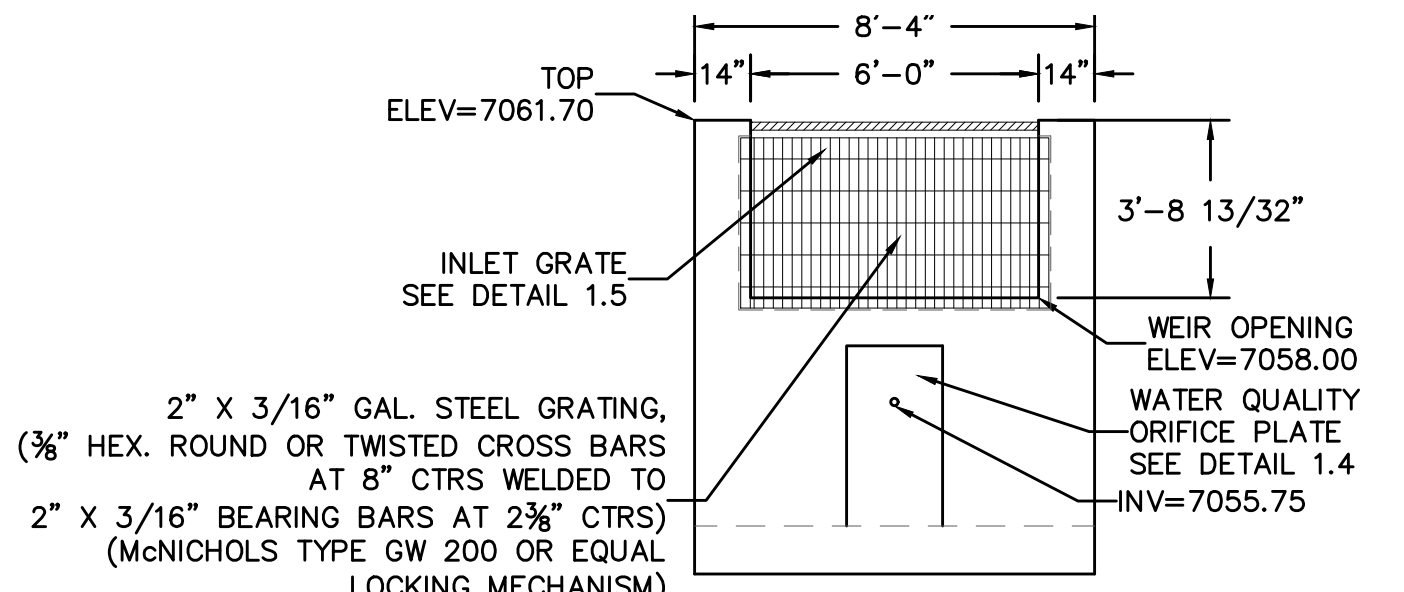
**ORIFACE PLATE ASSEMBLY**

**WELL SCREEN DETAIL**

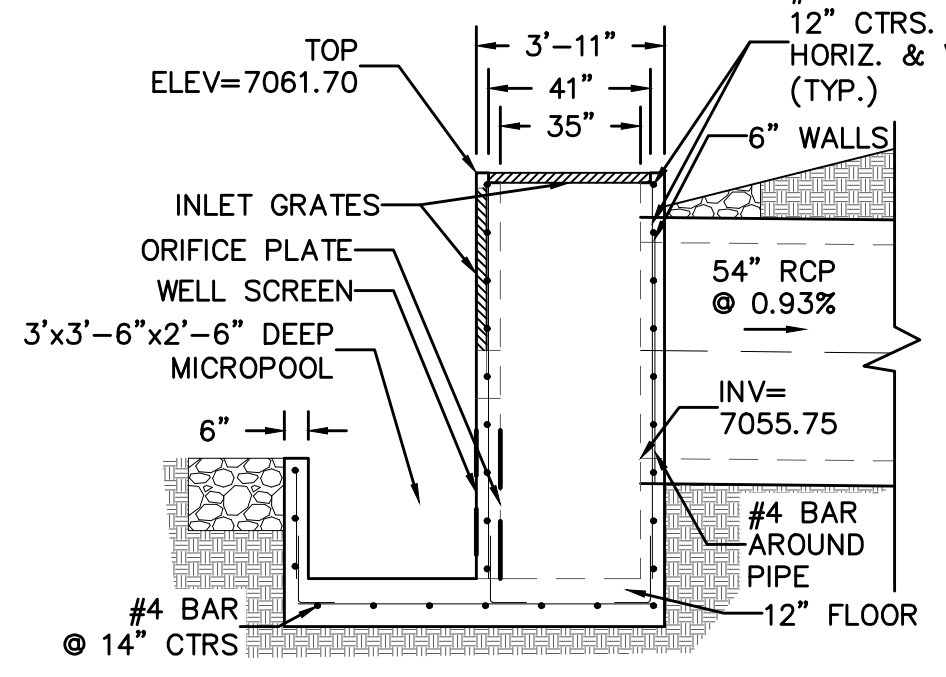
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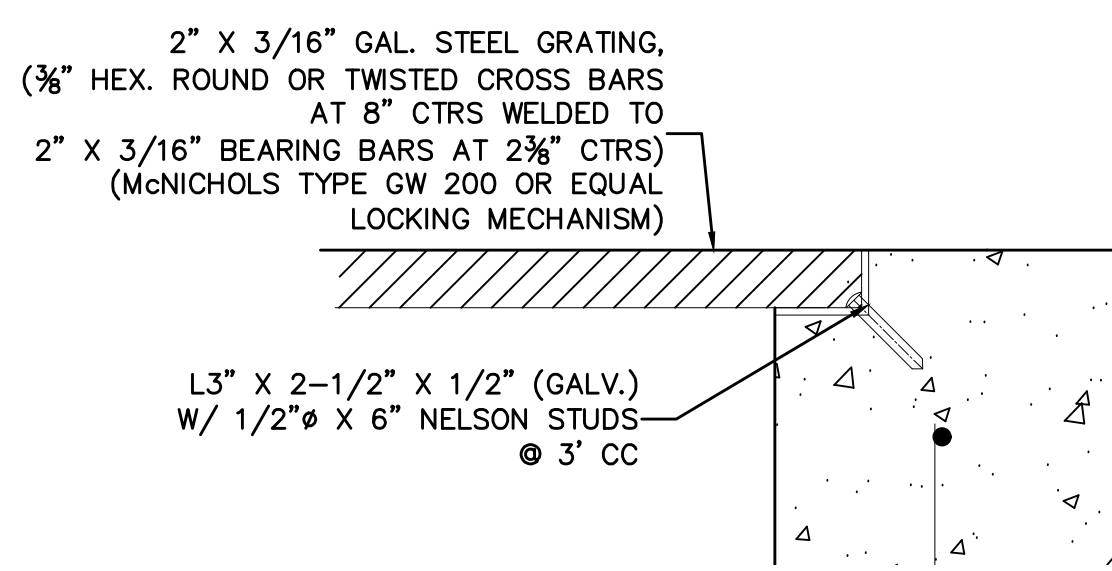
**GRAPHIC SCALE**  
( IN FEET )  
1 inch = 50 ft.  
1 inch = 5 ft. VERTICAL



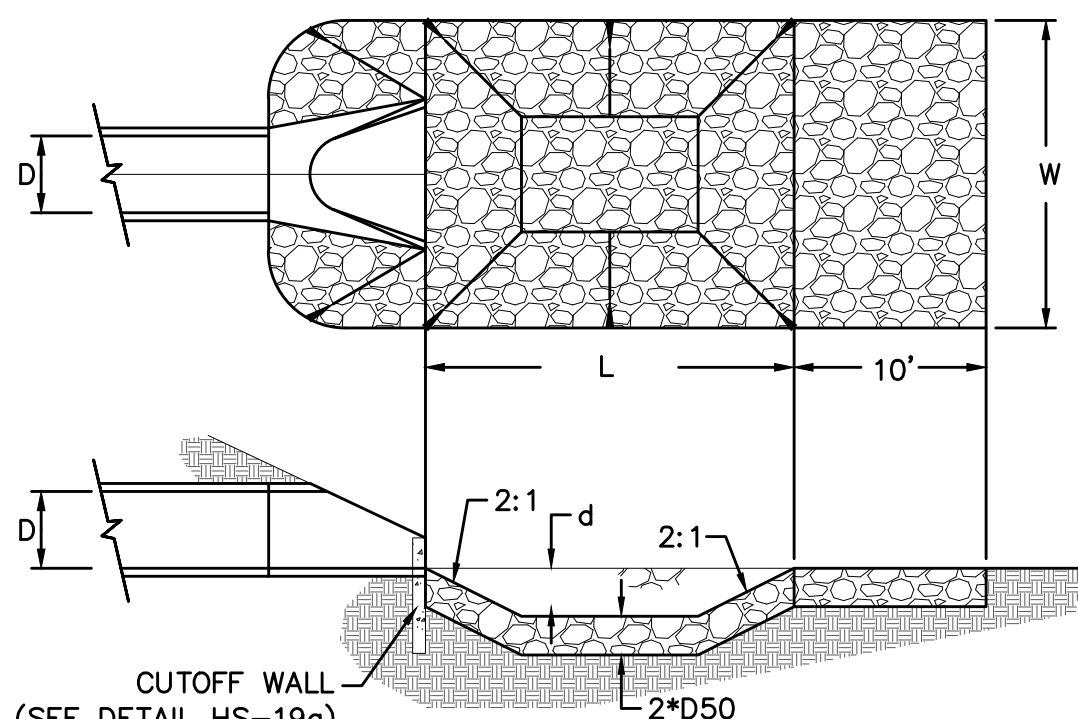
**DETAIL 1.2**  
OUTLET STRUCTURE  
FRONT VIEW  
NTS



**DETAIL 1.3**  
OUTLET STRUCTURE  
CROSS SECTION  
NTS



**DETAIL 1.5**  
GRATE  
NTS

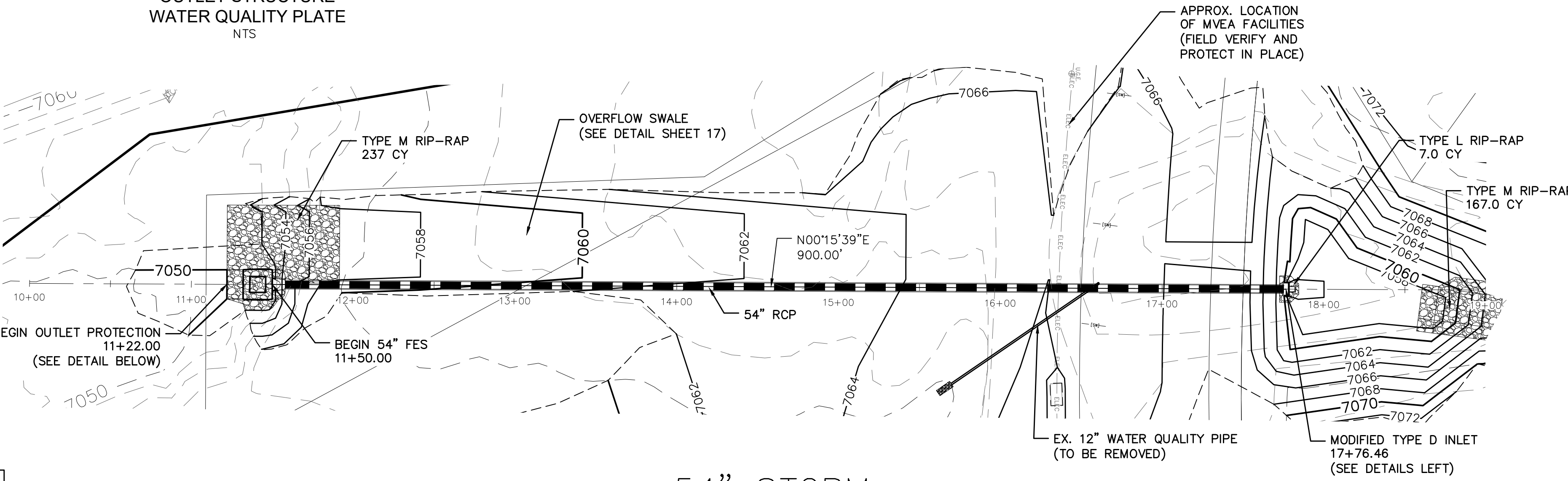


**URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED\*)**  
Figure HS-19. Culvert and Outlet Erosion Protection  
\*RIP RAP RECTANGULAR POOL

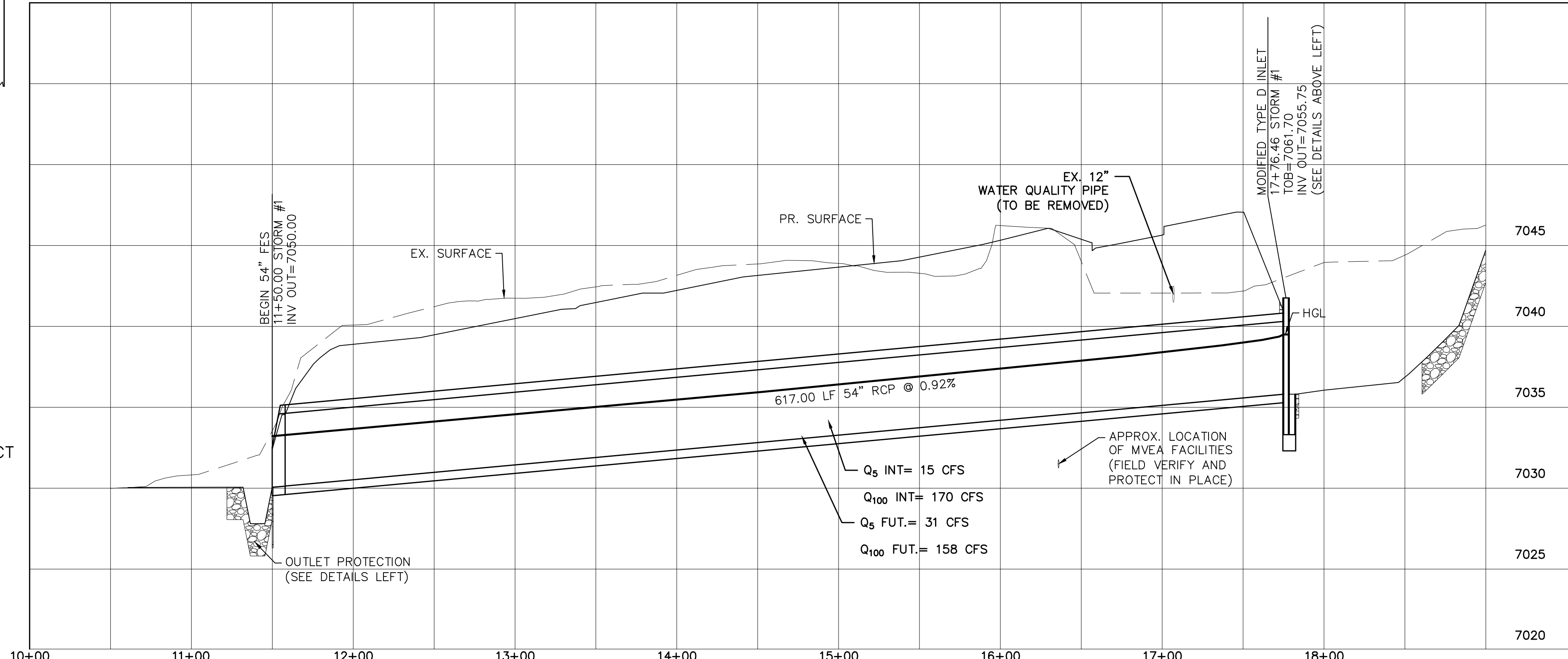
PIPE OUTLET	L	W	d	TYPE	D <sub>90</sub>	CY	NOTES
54"	18.0	18.0	2.0	M	1.00'	43.0	SEE BELOW

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

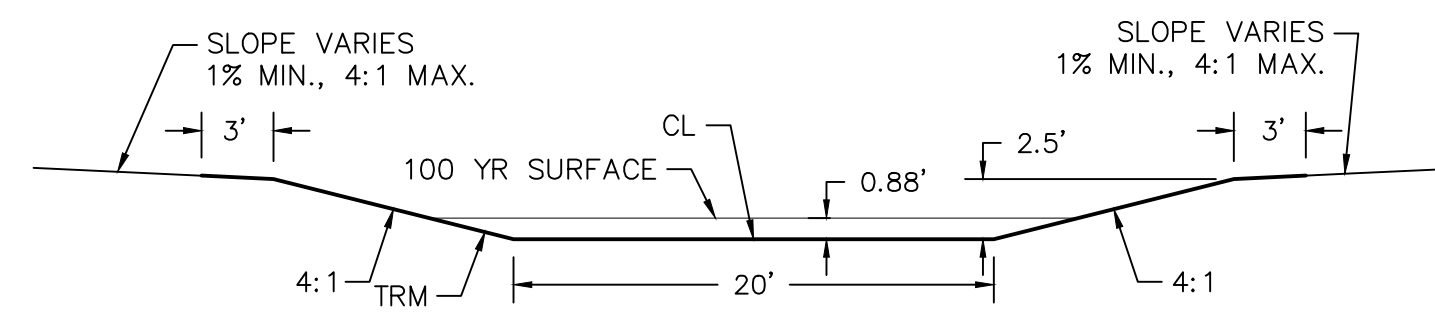
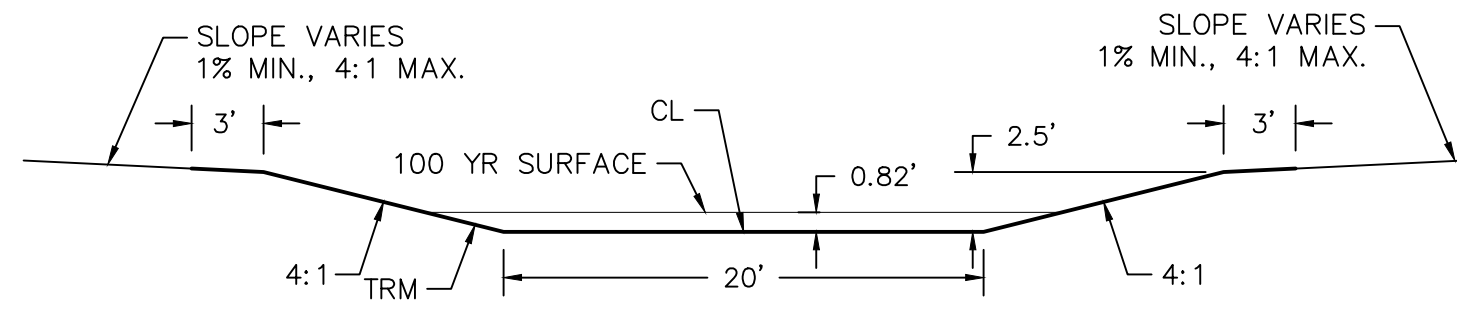
**OS-1**  
OUTLET PROTECTION DETAIL  
NTS



**54" STORM**



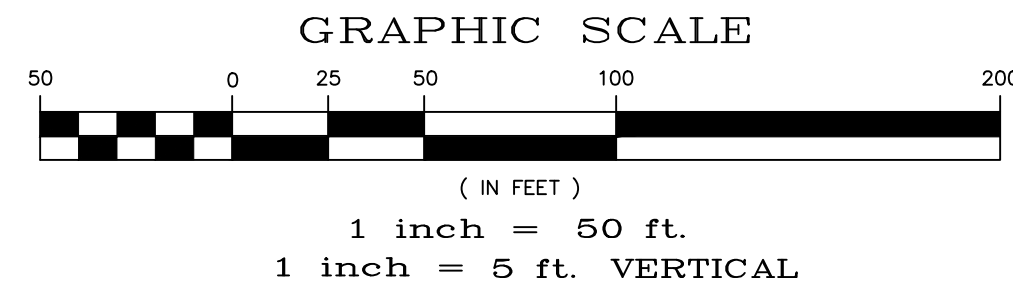
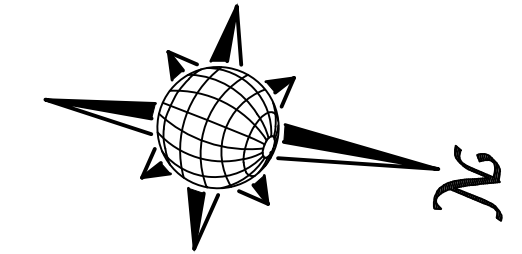
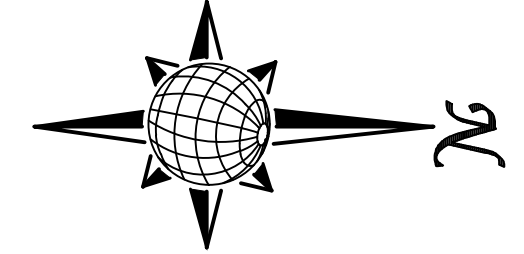
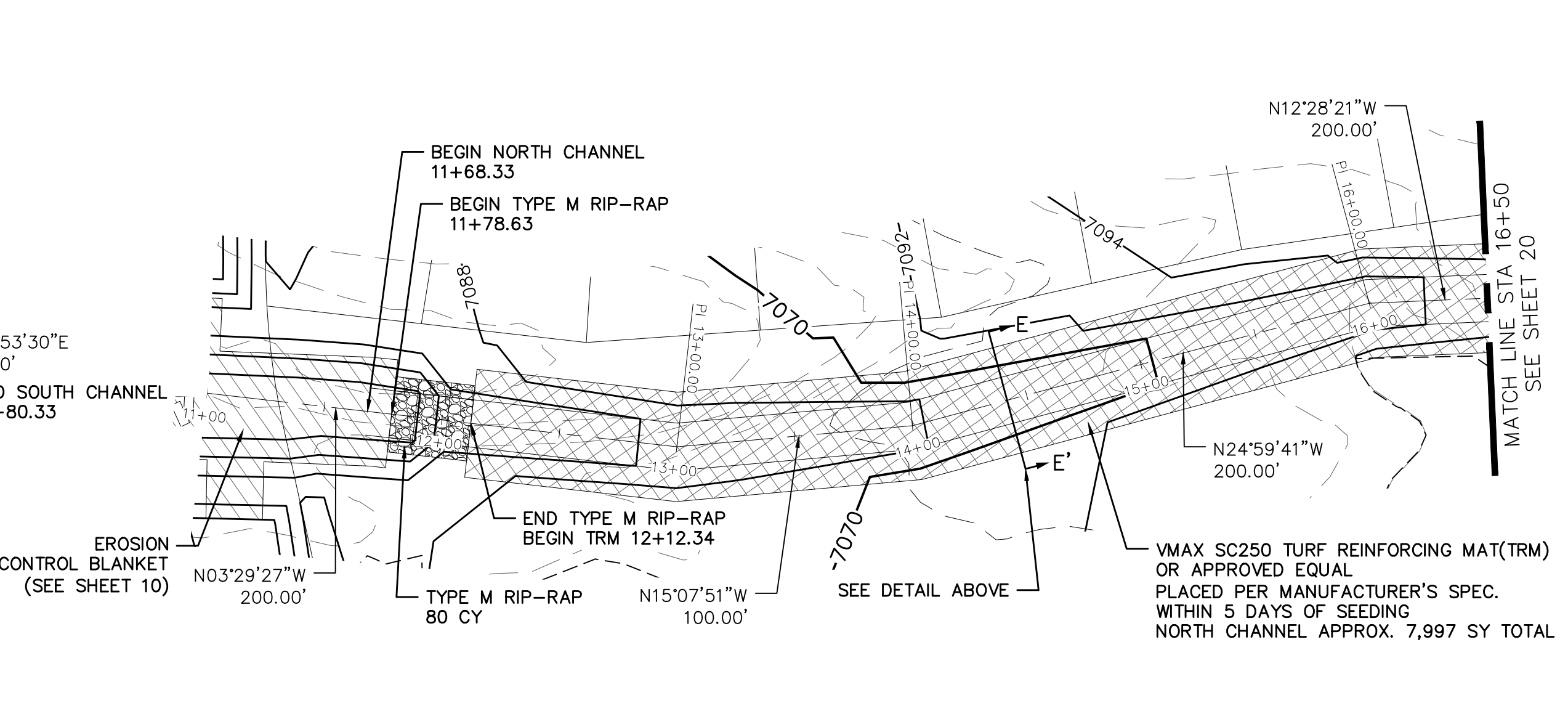
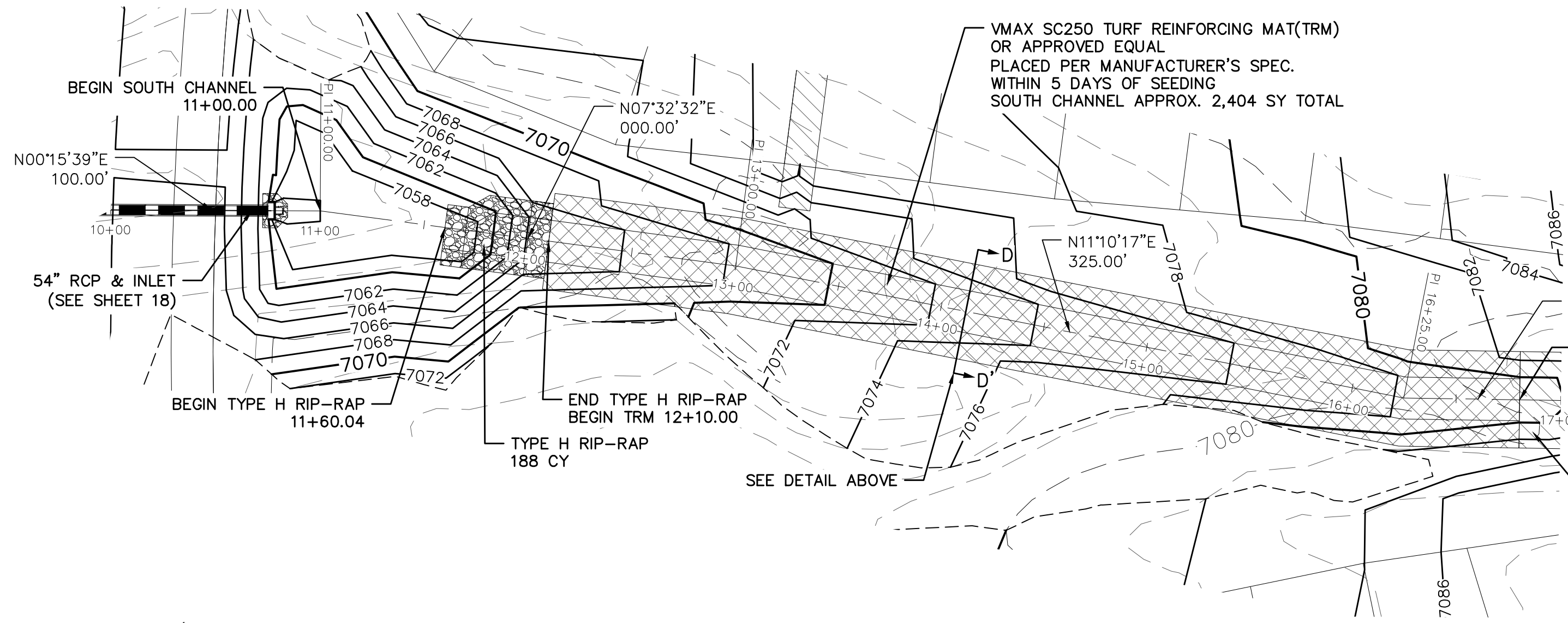
Date	Appr.	Revisions	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
<b>MERIDIAN RANCH</b>			
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET			
Drawn by	LOG	Checked by	TAK
Scale	AS SHOWN	Date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



**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)

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

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

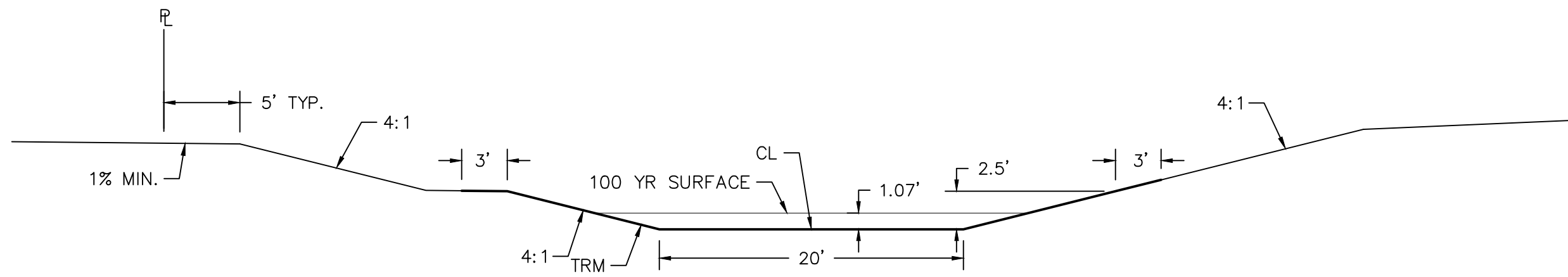


OPEN SPACE SOUTH CHANNEL

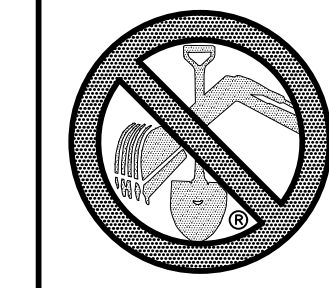
OPEN SPACE NORTH CHANNEL

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

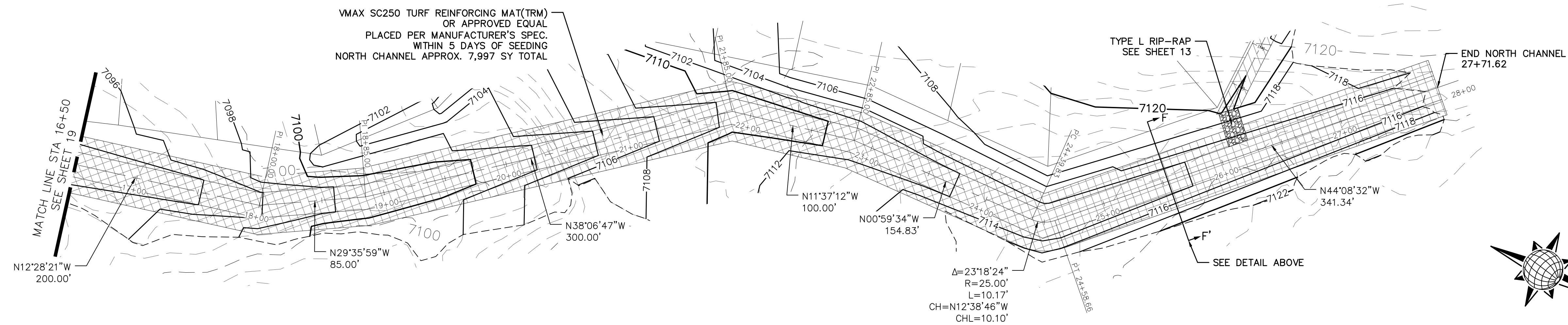
Date		Appr.	
Date		Invt.	
Date		No.	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
<b>MERIDIAN RANCH</b>			
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET			
Drawn by	LOG	Checked by	TAK
Scale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



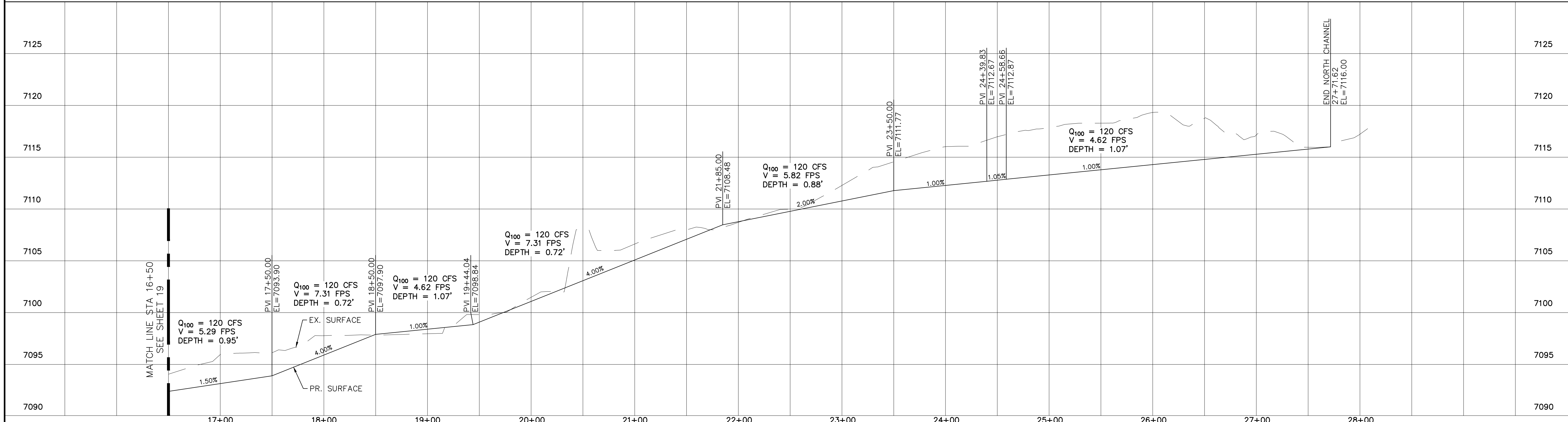
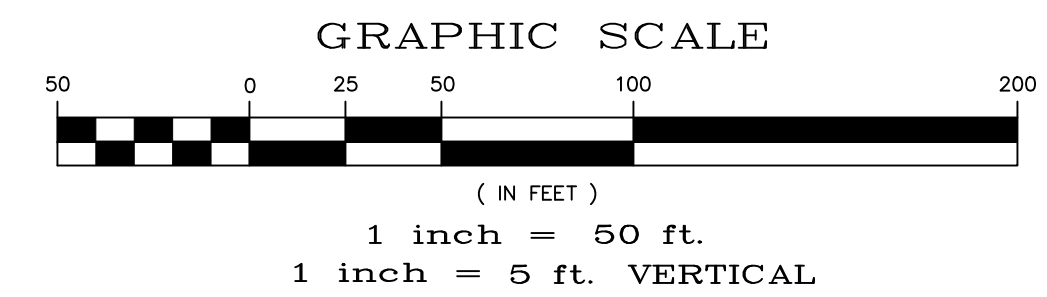
**DETAIL F-F'**  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS



TWO WORKING DAYS  
**BEFORE YOU DIG**  
**CALL 811**  
OR  
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(SEE COVER FOR LIST OF UTILITY CONTACTS)

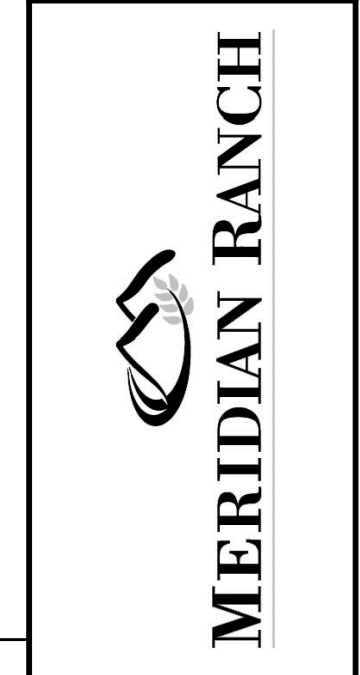


OPEN SPACE NORTH CHANNEL



Date	Appr.	Date	Revis.	No.

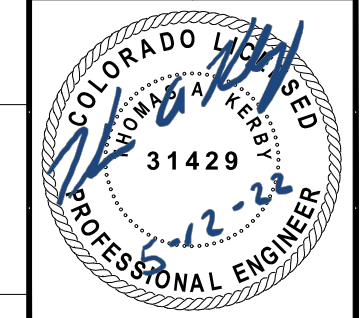
**TECH CONTRACTORS**  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457



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

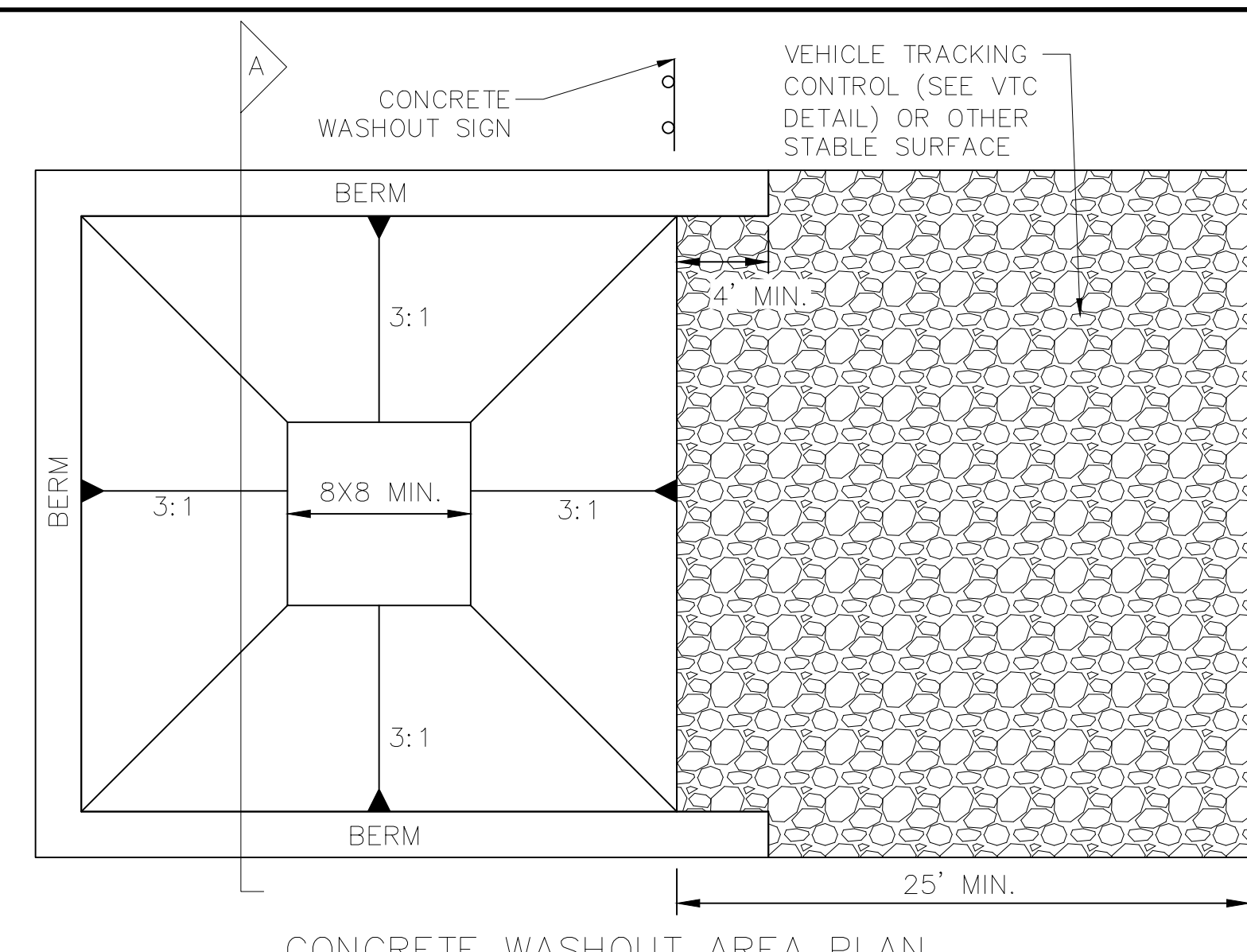
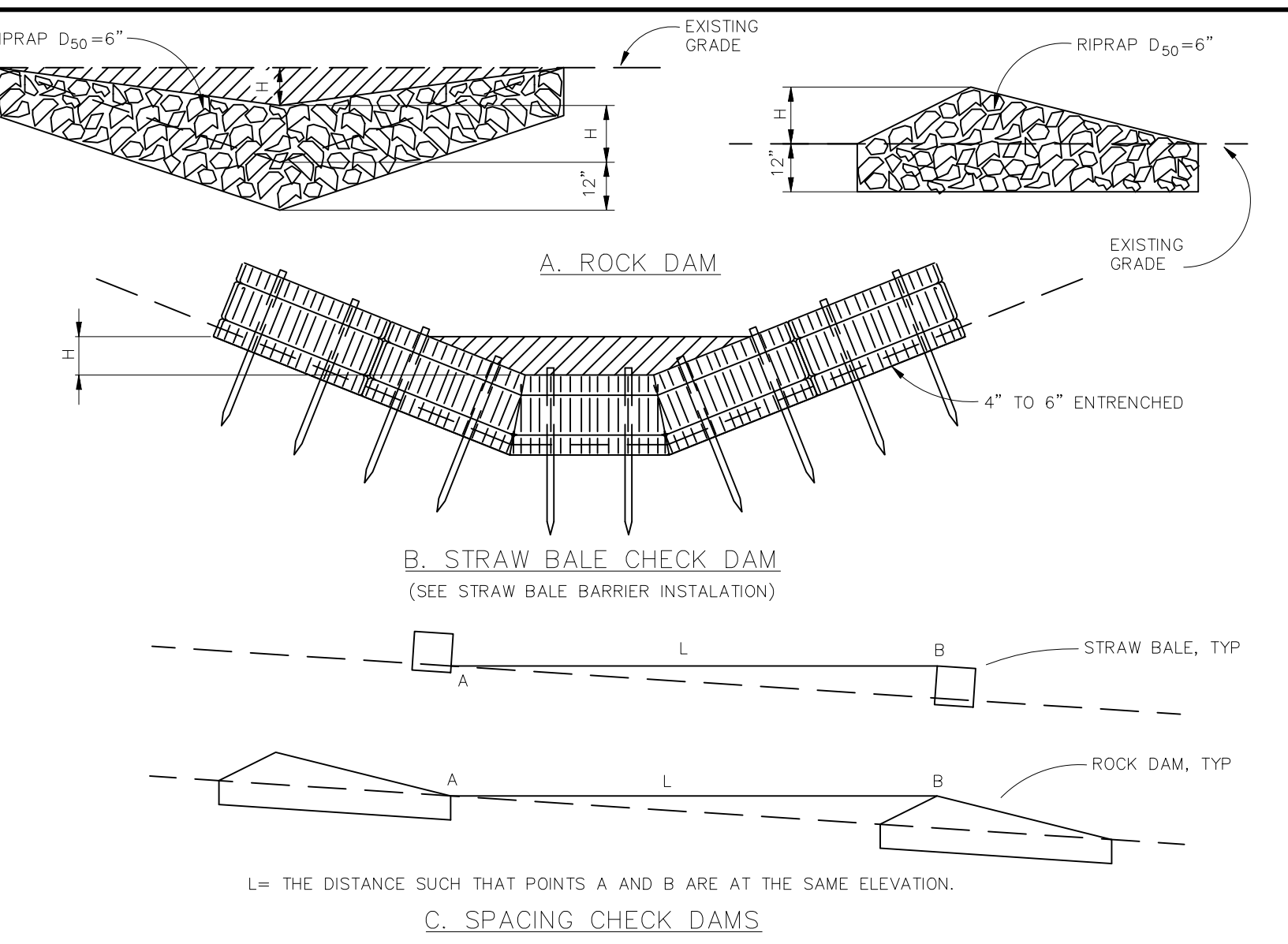
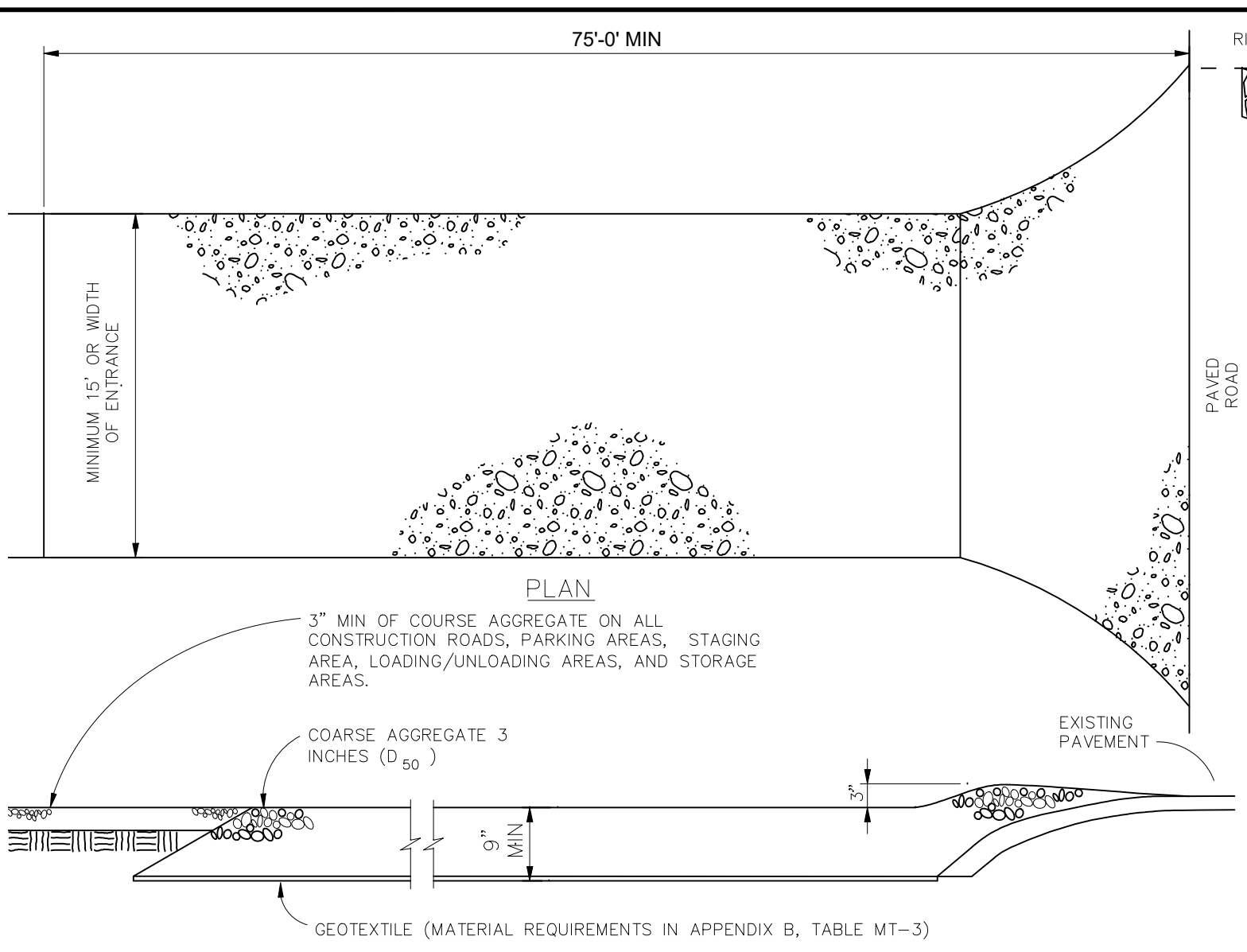
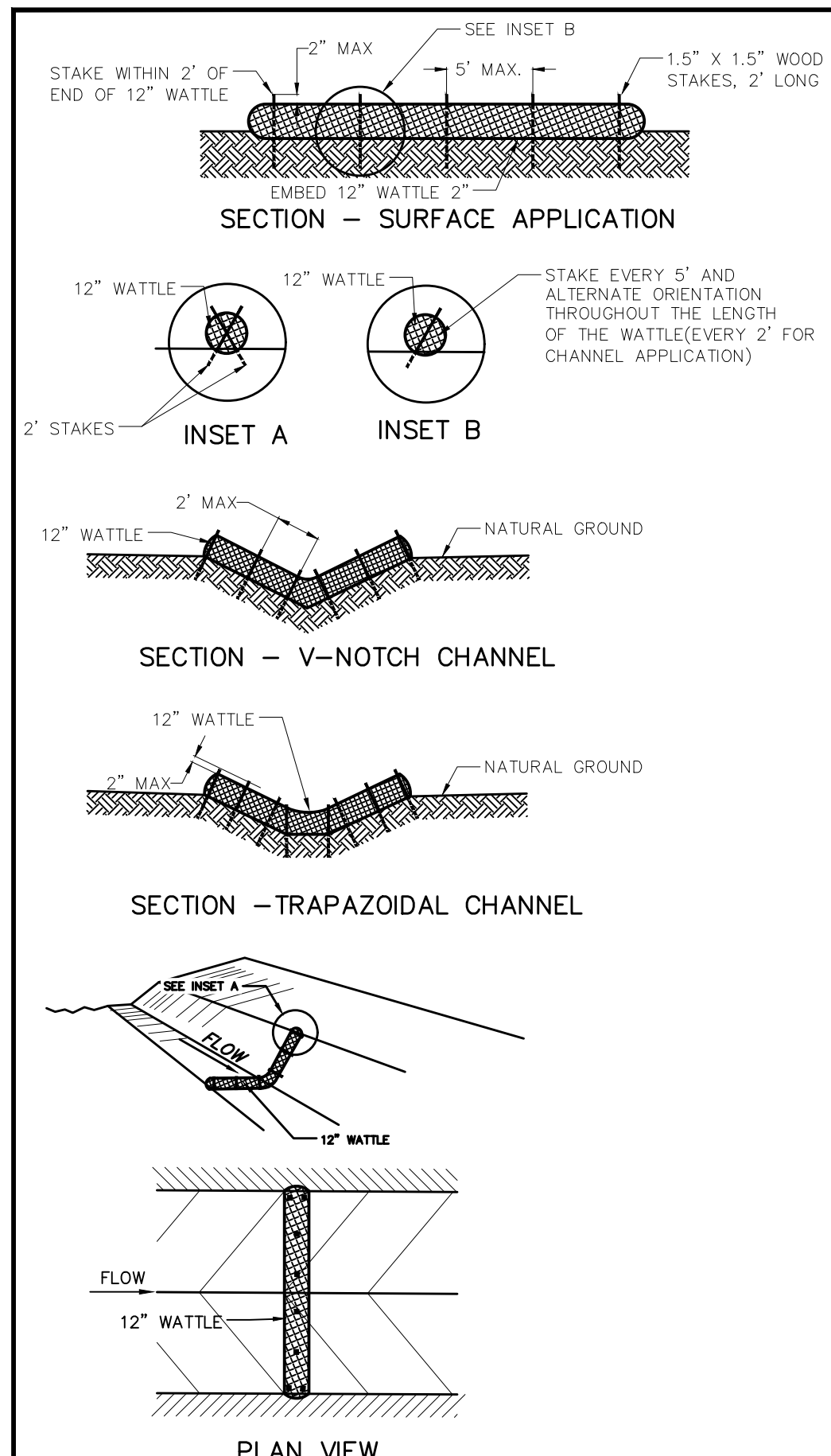
Drawn by LOG  
Checked by TAK  
Date MAY 2022

Scale AS SHOWN  
20 of 23









**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.

**NOTES:**

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

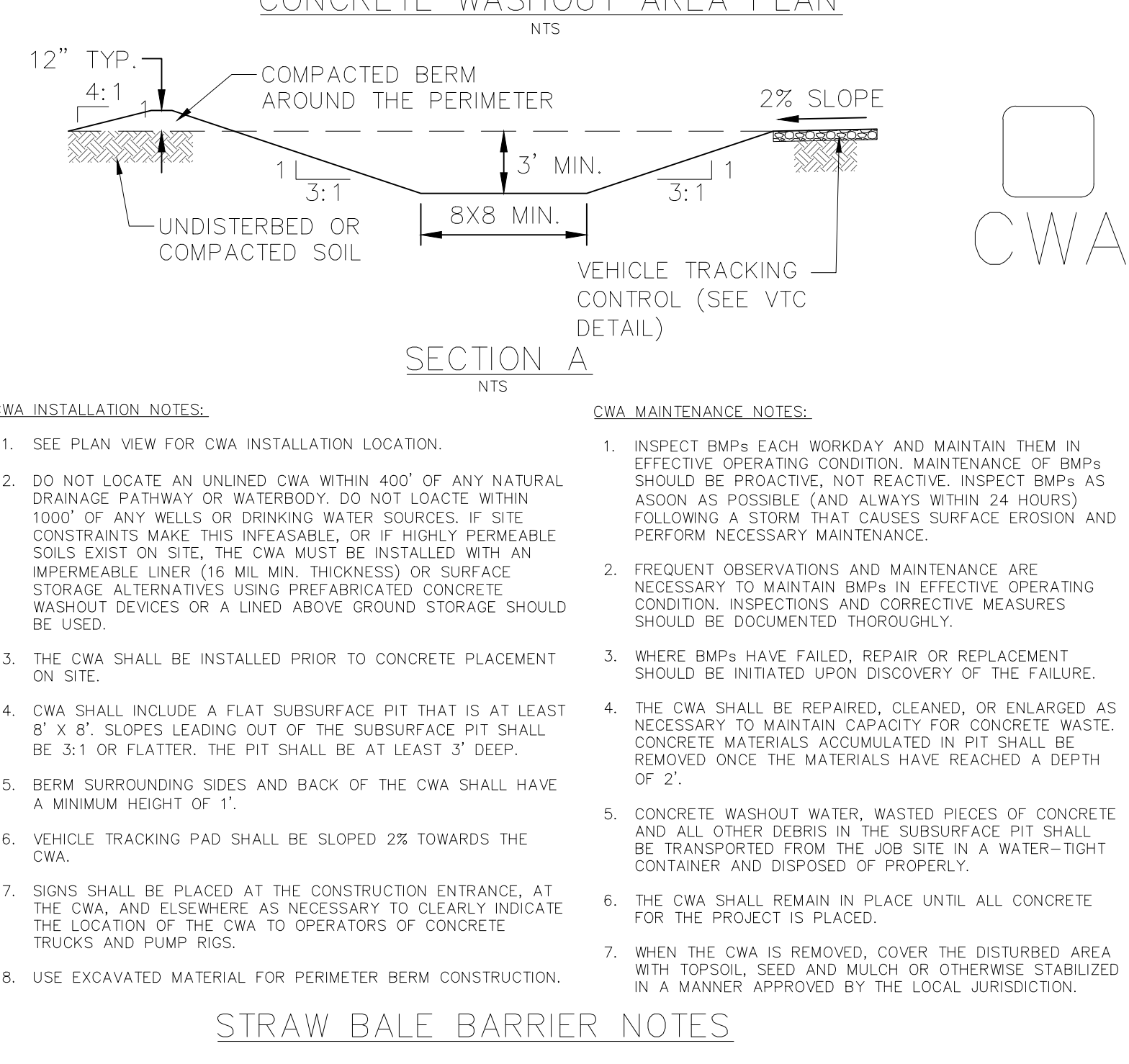
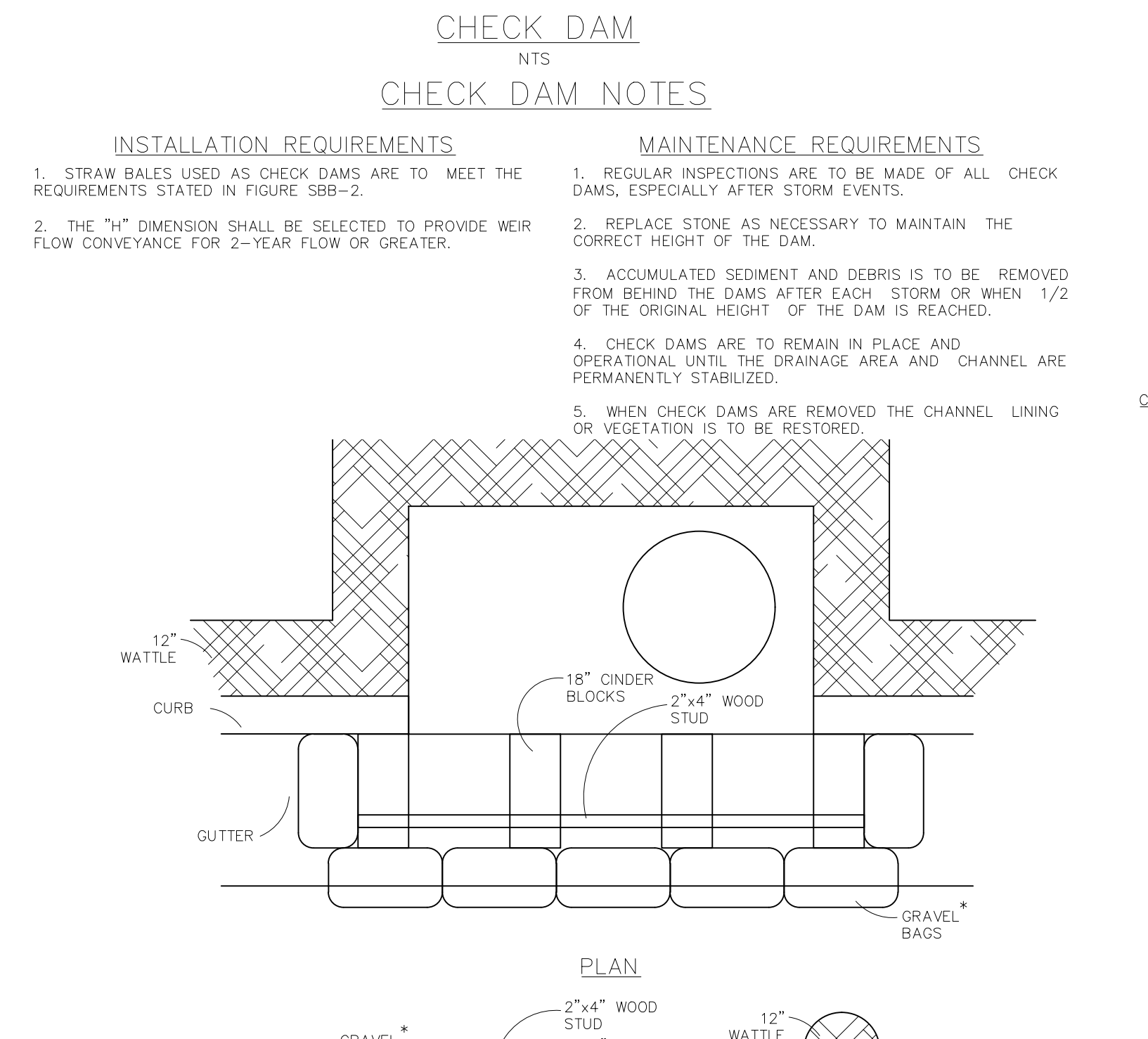
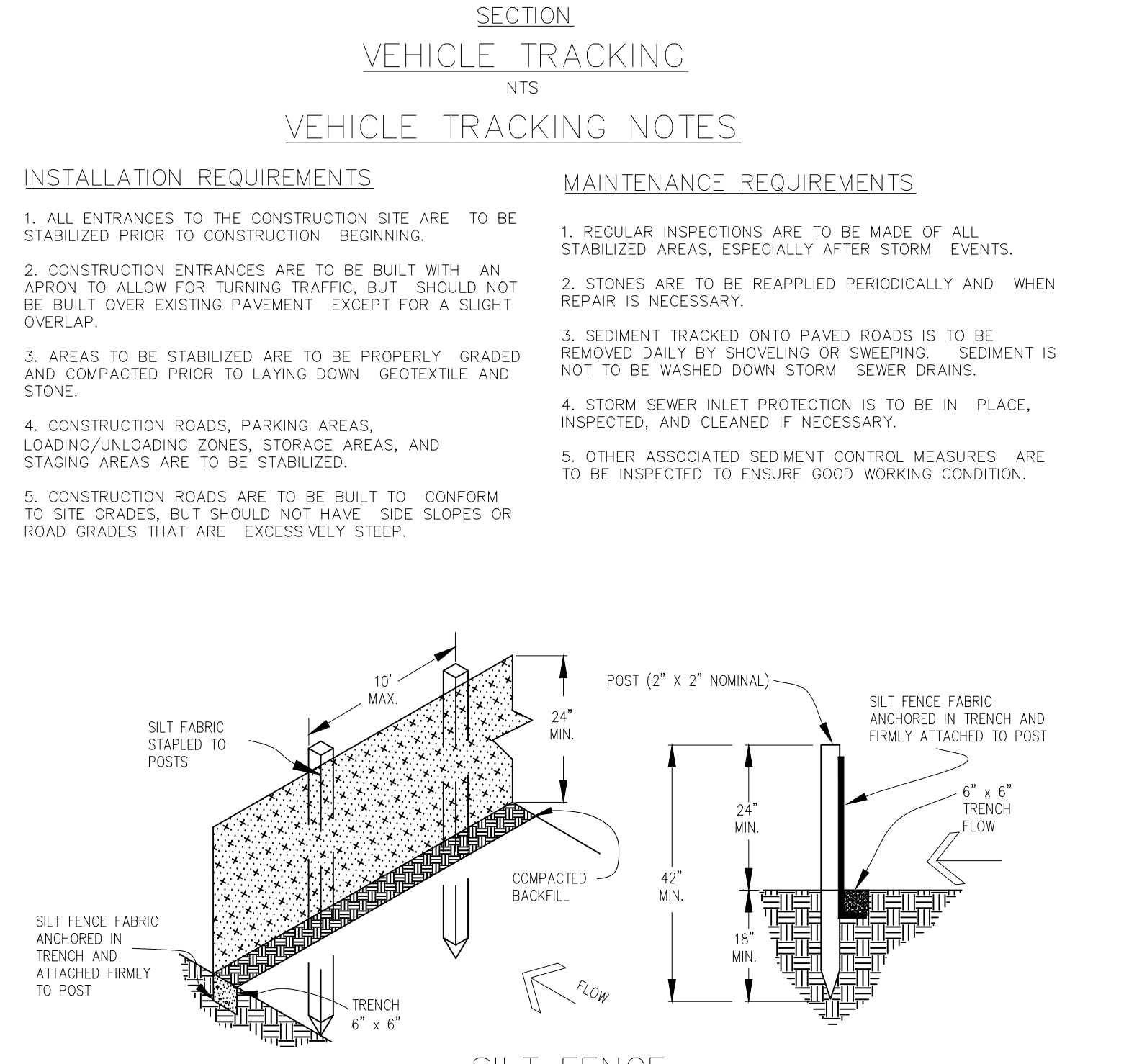
ONLY INSTALL 12" WATTLES TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES OR AS DIRECTED.

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

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

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

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



**INSTALLATION REQUIREMENTS**

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.
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.

**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**

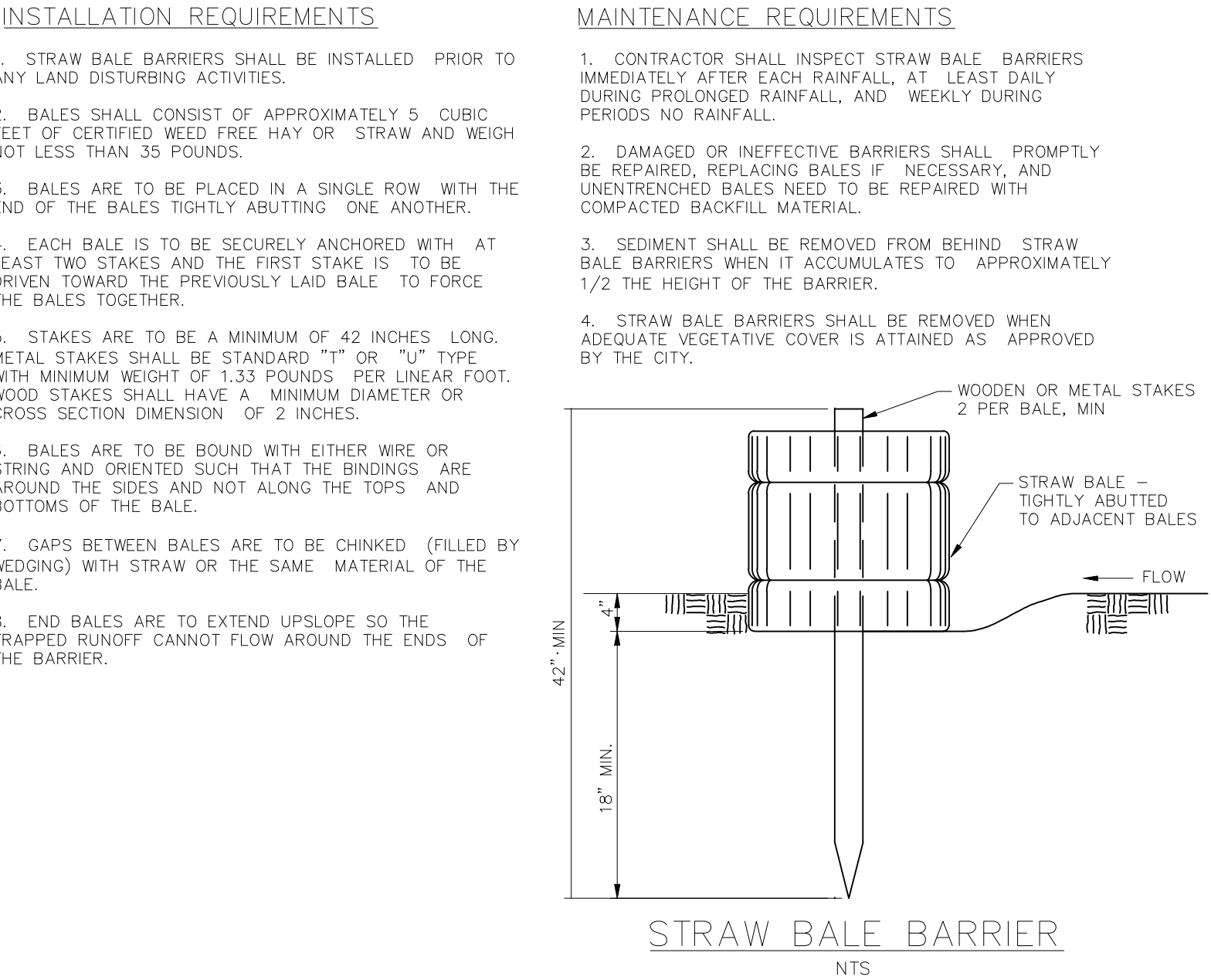
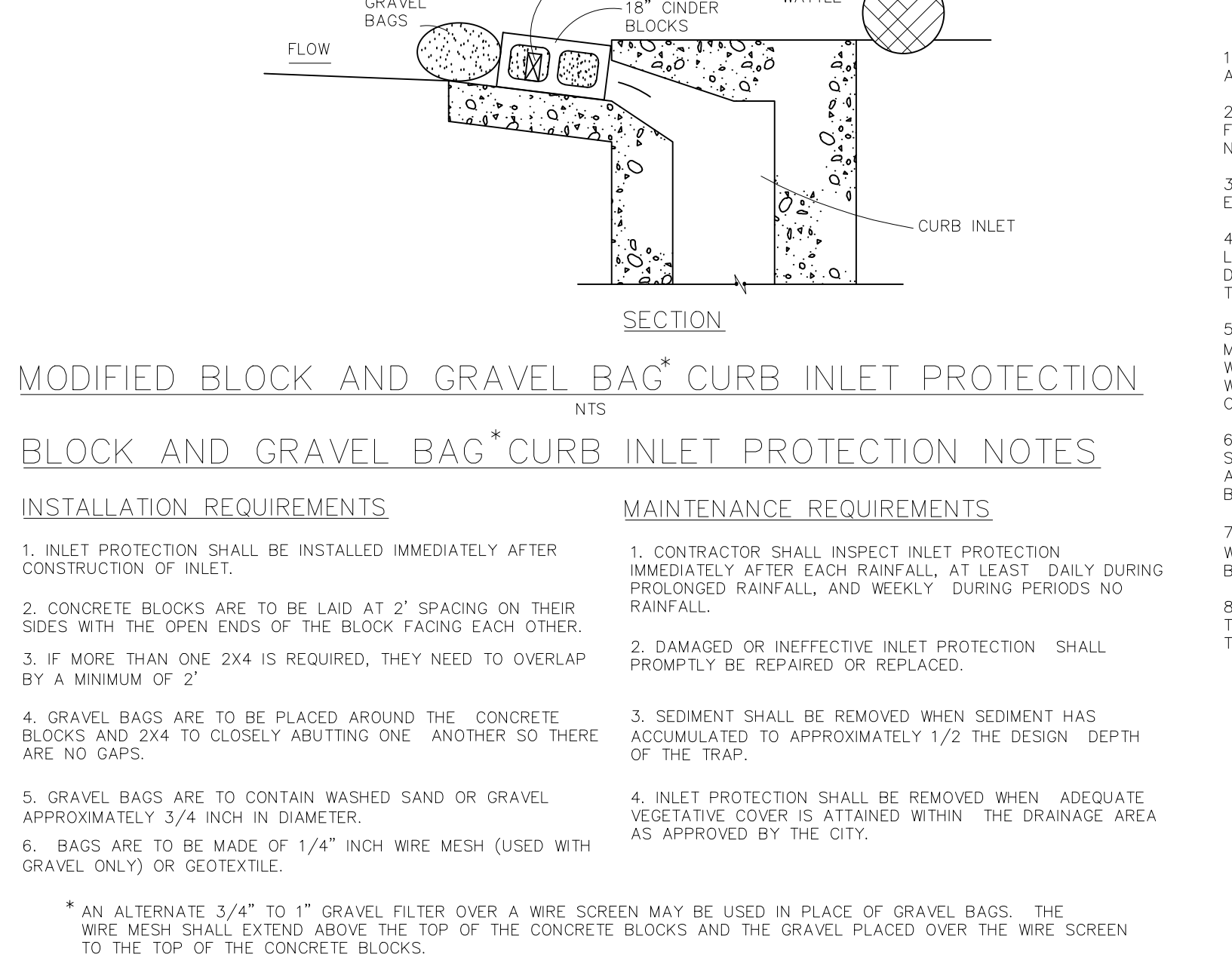
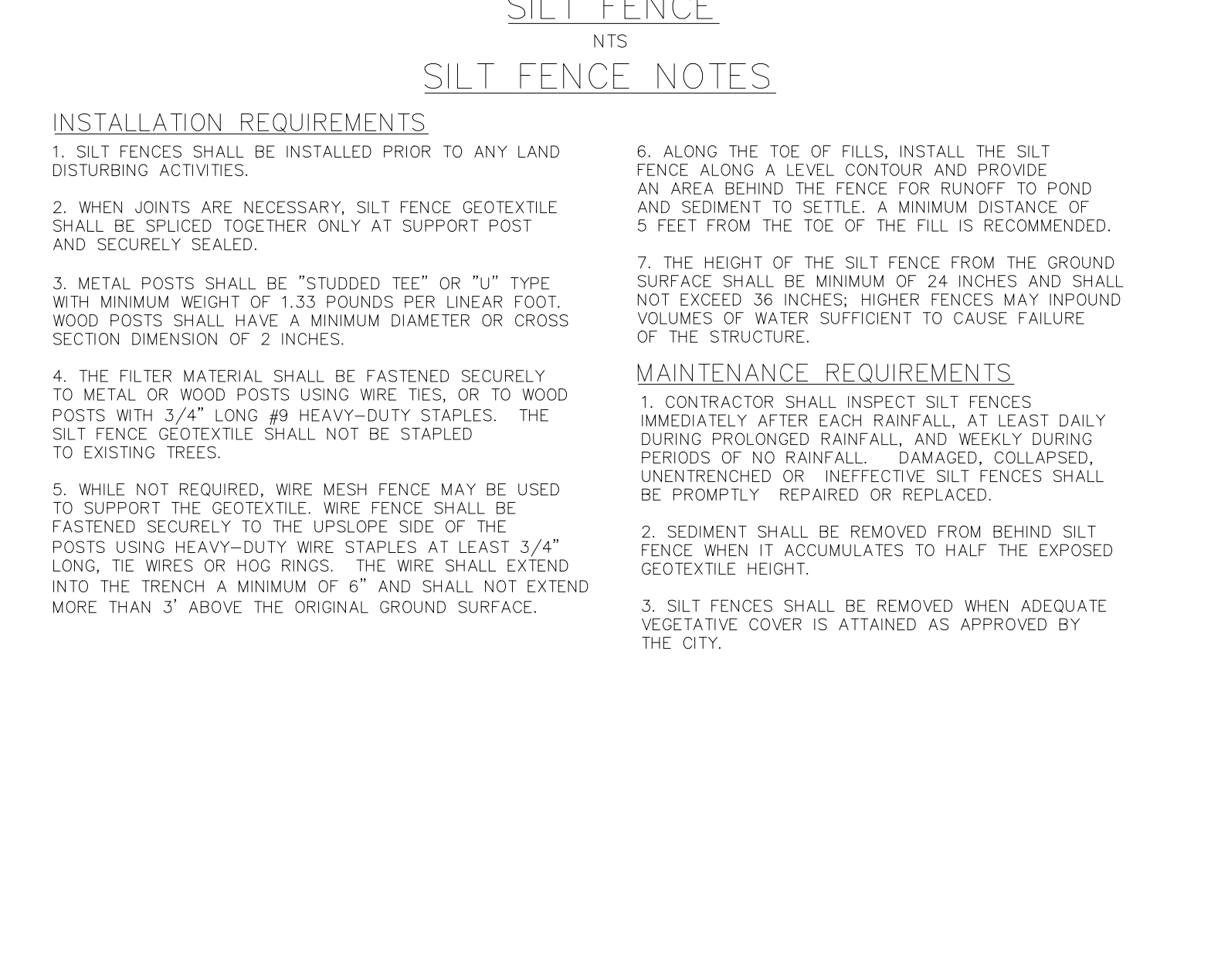
1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.
2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT 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.
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.

**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.
5. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
6. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.



No.	1	2	3	4
Revisions				
Date				
Appr.				
Date				

**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  
DETAIL SHEET

Scale: AS SHOWN

Drawn by: LOG

Checked by: TJK

Date: MAY 2022

23 of 23

COLORADO LICENSED PROFESSIONAL ENGINEER  
31429

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)

\* 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.