Added PCD Number

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PCD Filing No.: SF229

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CONTÀCT: JOSEPH DESJARDIN

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EL PASO COUNTY PLANNING 2880 INTERNATIONAL CIRCLE, SUITE

COLORADO SPRINGS, CO 80910 PLANNING REVIEWER:

TEL: (719) 520-6313 EMAIL: NINARUIZ@ELPASOCO.COM **ENGINEERING REVIEWER:** GILBERT LAFORCE

TEL: (719) 520-7945

GILBERTLAFORCE@ELPASOCO.COM

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FALCON FIRE DEPARTMENT:

AREA: FAL D2 DEPUTY CHIEF JEFF PETERSMA 7030 OLD MERIDIAN ROAD PAYTON, CO 80831 TEL: (719) 243-0651

FALCONFIRE@FALCONFIREPD.ORG

COLORADO DEPARTMENT OF PUBLIC **HEALTH AND ENVIRONMENT:** WATER QUALITY CONTROL DIVISION 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246 TEL: (303) 692-3500

## LEGAL DESCRIPTION

COMMENCING AT THE WEST QUARTER CORNER OF SAID SECTION 24, SAID POINT BEING THE POINT OF BEGINNING; THENCE NOO"14'25"E ON THE WEST LINE OF THE NORTHWEST QUARTER OF SAID SECTION 24, SAID LINE ALSO BEING ON THE WEST BOUNDARY OF PARCEL 4, AS RECORDED UNDER RECEPTION NUMBER 218900072, A DISTANCE OF 2636.99 FEET TO THE NORTHWEST CORNER OF SAID SECTION 24; THENCE N89°21'38"E ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SAID SECTION 24, A DISTANCE OF 2633.02 FEET TO THE NORTH QUARTER CORNER OF SAID SECTION 24: THENCE NOO"10'29"F ON THE WEST LINE OF THE SOUTH HALF OF THE SOUTH FAST QUARTER OF SECTION 13, TOWNSHIP 11 SOUTH, RANGE 65 WEST, A DISTANCE OF 1321.95 FEET TO THE NORTHWEST CORNER OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SAID SECTION 13; THENCE N89°20'26"E ON THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SAID SECTION 13, A DISTANCE OF 1873.37 FEET: THENCE SOO°34'43"W A DISTANCE OF 2.706.21 FEET: THENCE S89°15'17"E A DISTANCE OF 769.17 FEET TO A POINT ON THE WEST LINE OF SECTION 19 TOWNSHIP 11 SOUTH, RANGE 64 WEST OF SAID SECTION 19; THENCE SOO 17'06"W ON THE EAST LINE OF THE WEST HALF OF THE WEST HALF OF SAID SECTION 19. A DISTANCE OF 3.838.66 FEET TO A POINT 30.00 FEET NORTH OF THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19; THENCE S89°55'06"W, ON A LINE 30.00 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, ON SAID NORTHERLY RIGHT-OF-WAY LINE, A DISTANCE OF 30.00 FEET TO A POINT ON THE BOUNDARY LINE PARCEL NUMBER RW-36 AS SHOWN IN THE WARRANTY DEED AS RECORDED UNDER RECEPTION NUMBER 213096397; THENCE ON THE BOUNDARY OF SAID PARCEL THE FOLLOWING (3) THREE COURSES:

NOO°17'06"E, 30.00 WEST OF AND PARALLEL WITH THE EAST LINE OF THE WEST HALF OF THE WEST HALF OF SAID SECTION 19, A DISTANCE OF 5.25 FEET 2. N89°47'54"W A DISTANCE OF 368.05 FEET

S89°14'50"W A DISTANCE OF 603.68 FEET TO A POINT BEING 30.00 FEET NORTH OF THE SOUTH LINE OF SOUTHWEST QUARTER OF SAID SECTION 19;

THENCE S89°55'06"W ON A LINE 30.00 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, ON SAID NORTHERLY RIGHT-OF-WAY LINE A DISTANCE OF 173.03 FEET TO A POINT ON THE EAST LINE OF SAID SECTION 24; THENCE S89°30'15"W ON A LINE 30.00 NORTH OF AND PARALLEL WITH THE SOUTH LINE OF SAID SECTION 24, A DISTANCE OF 5238.44 FEET TO A POINT ON THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 24; THENCE NOO"14'17"E ON THE WEST LINE OF SOUTHWEST QUARTER A DISTANCE OF 2,606.92 FEET TO THE POINT OF BEGINNING.

CONTAINING A CALCULATED AREA OF 33,455,315 SQUARE FEET OR 768.028 ACRES. COLORADO.

## **BENCHMARK**

A 2.5" ALUMINUM CAP BEING A 30 FOOT WITNESS CORNER NORTH OF THE SOUTHWEST CORNER OF SECTION 24, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN.

## BASIS OF BEARING

THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE 6TH/ PRINCIPAL MERIDIAN BEING MONUMENTED ON THE SOUTHERLY END BY A 2-1/2"ALUMINUM CAP STAMPED "LS 28658" AND AT THE NORTHERLY END BY A 3-1/2" ALUMINUM CAP STAMPED "LS 12103" BEING ASSUMED TO BEAR NOO"14'25"E A DISTANCE OF 2636.99 FEET AS SHOWN IN LAND SURVEY PLAT RECORDED UNDER RECEPTION 218900072 RECORDS OF EL PASO COUNTY.

## FLOODPLAIN NOTE

FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, MAP NUMBER 08041C0350G, EFFECTIVE DECEMBER 7, 2018 INDICATES THE AREA IN THE VICINITY OF THIS PARCEL OF LAND TO BE IN ZONE X (AREA DETERMINED TO BE OUT OF THE 500 YEAR FLOODPLAIN). A CONDITIONAL LETTER OF MAP REVISION HAS BEEN PROCESSED AND APPROVED FOR THIS REACH OF WEST KIOWA CREEK.





CLOMR number Added CLOMF

HODGEN ROAD

1"=2,000'	

Sheet Number

VICINITY MAP

Sheet List Table

Sheet Title

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C1.33	POND 2 DETAILS
C1.34	POND 2 DETAILS
C1.35	POND 4 OVERVIEW
C1.36	POND 4 DETAILS
C1.37	POND 4 DETAILS
C1.38	WQ POND OVERVIEW
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C1.40	WQ POND DETAILS

# OWNER'S STATEMENT

THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

OWNER SIGNATURE

JOE DESJARDIN. DIRECTOR OF ENTITLEMENTS WINSOME, LLC 1864 WOODMOOR DRIVE, SUITE 100 MONUMENT, CO 80132

#### **ENGINEER'S STATEMENT**

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

KEVIN KOFFORD, PE (CO #57234) - KIMLEY-HORN AND ASSOCIATES, INC. DATE

#### EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, 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 DIRECTOR'S

JENNIFER IRVINE, PE COUNTY ENGINEER/ECM ADMINISTRATOR

DATE

PRELIMINARY FOR REVIEW ONL' NOT FOR CONSTRUCTION Kimley»Horn

DESIGNED BY: KRI

DRAWN BY: A

CHECKED BY: KRI

DATE: 12/16/202

FILING NO. 3
NTY, COLORADO
ON DOCUMENTS
R SHEET

EL PA CONS

PROJECT NO. 196106001 SHEET

Kimley-Horn and Associates, In-

#### EL PASO COUNTY GRADING AND EROSION CONTROL PLAN NOTES

- 1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON—SITE OR OFF—SITE WATERS, INCLUDING WETLANDS.
- 2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) 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 DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- 4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- 5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- 6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- 7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- 8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL
- MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.

  9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- 10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE—EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- 11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- 12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- 13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP.

  NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY
  SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL

  NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50
  FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- 14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- 15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- 18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF—SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF—SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- 20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON—SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- 21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- 22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

- 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- 26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.

  27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. DATED JANUARY 26, 2021 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- 29. AT LEAST TEN (10) 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
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

## STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

- 1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- 2.CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- 3.CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:

  a.EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- b.CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 c.COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION d.CDOT M & S STANDARDS
- 4.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 FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER—THE—FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 5.IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 6.CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7.IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS—ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 8.CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

HAND ASSOCIATES, INC.

2021 KIMLEY—HORN AND ASSOCIATES, INC.

2 North Nevada Avenue Suite 300

2 North Nevada Avenue Suite 300

2 North Springs Colorado 80903 (719) 453—0180

DATE: 12/16/202

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
ONSTRUCTION DOCUMENT
GENERAL NOTES

FOR REVIEW ONLY

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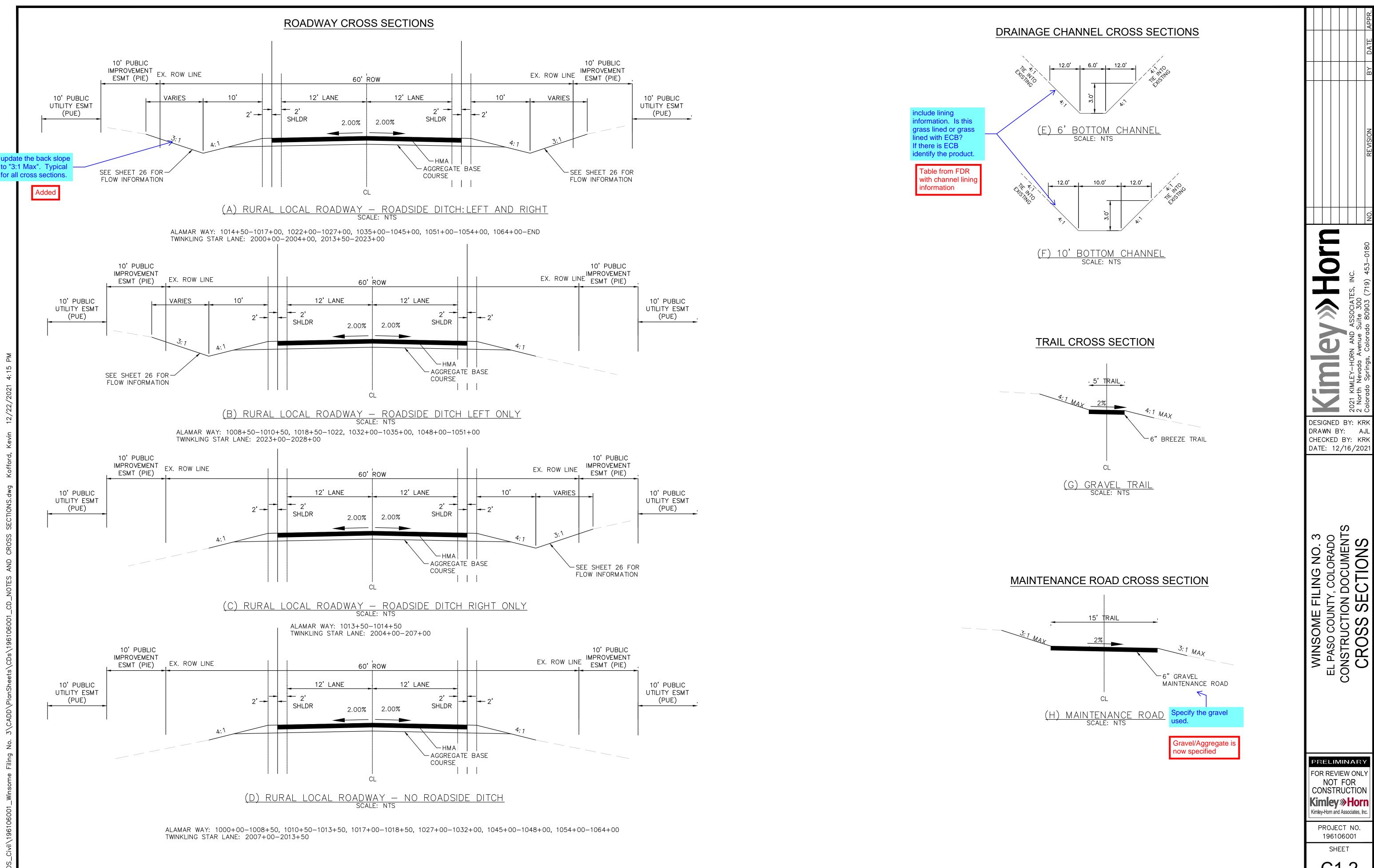
Kimley » Horn

PROJECT NO. 196106001

Kimley-Horn and Associates, In-

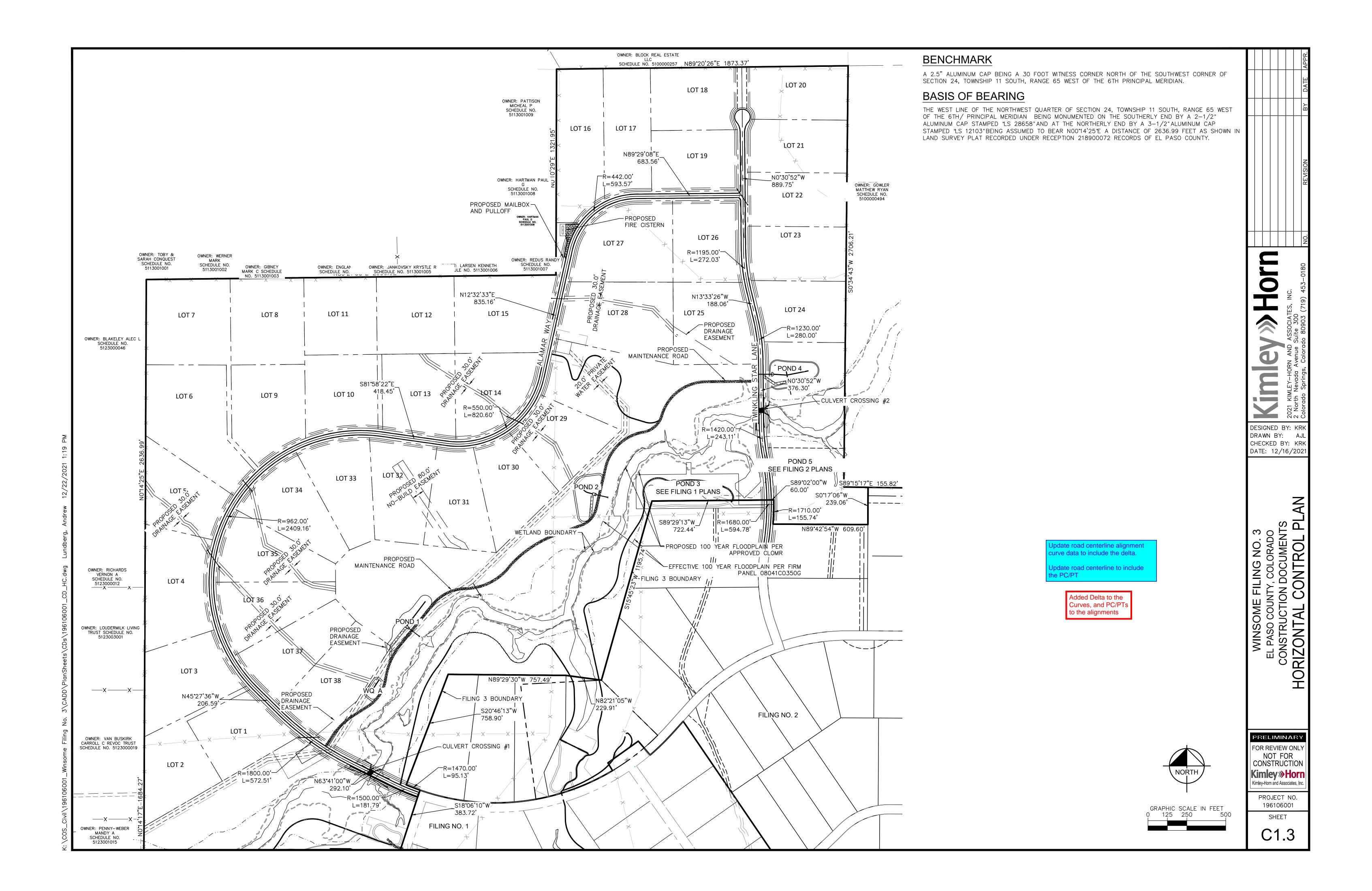
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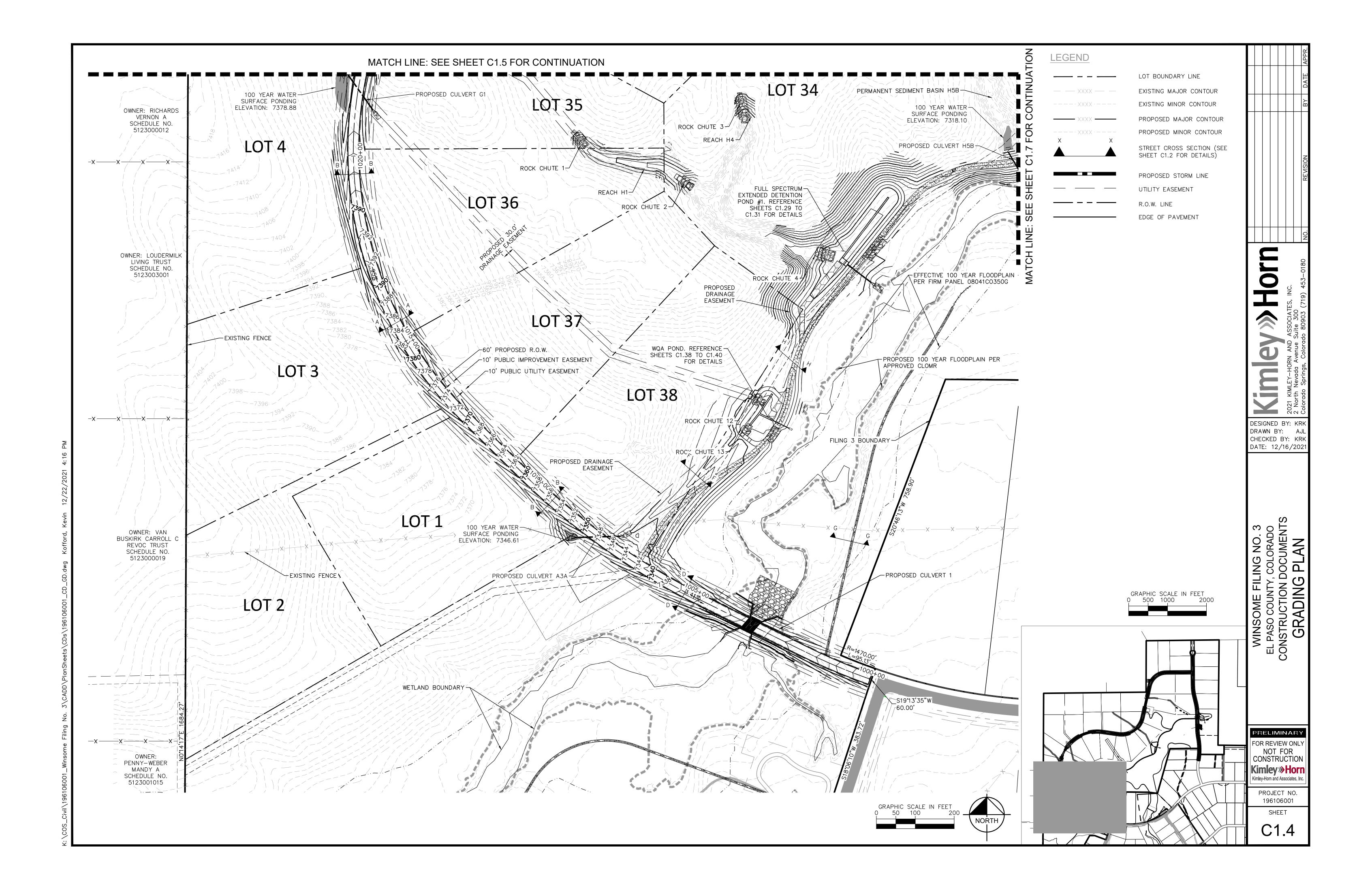
SHEET

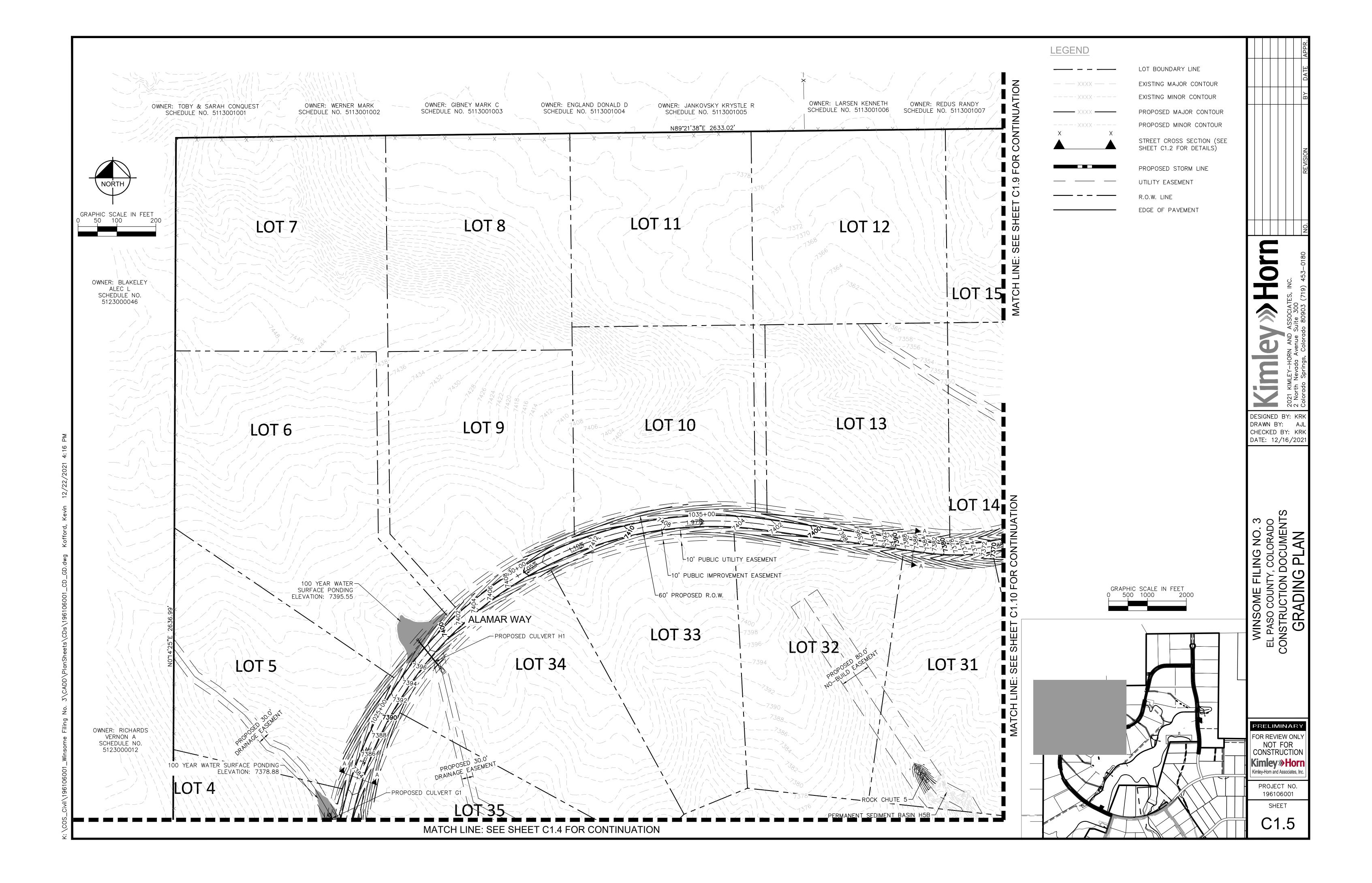


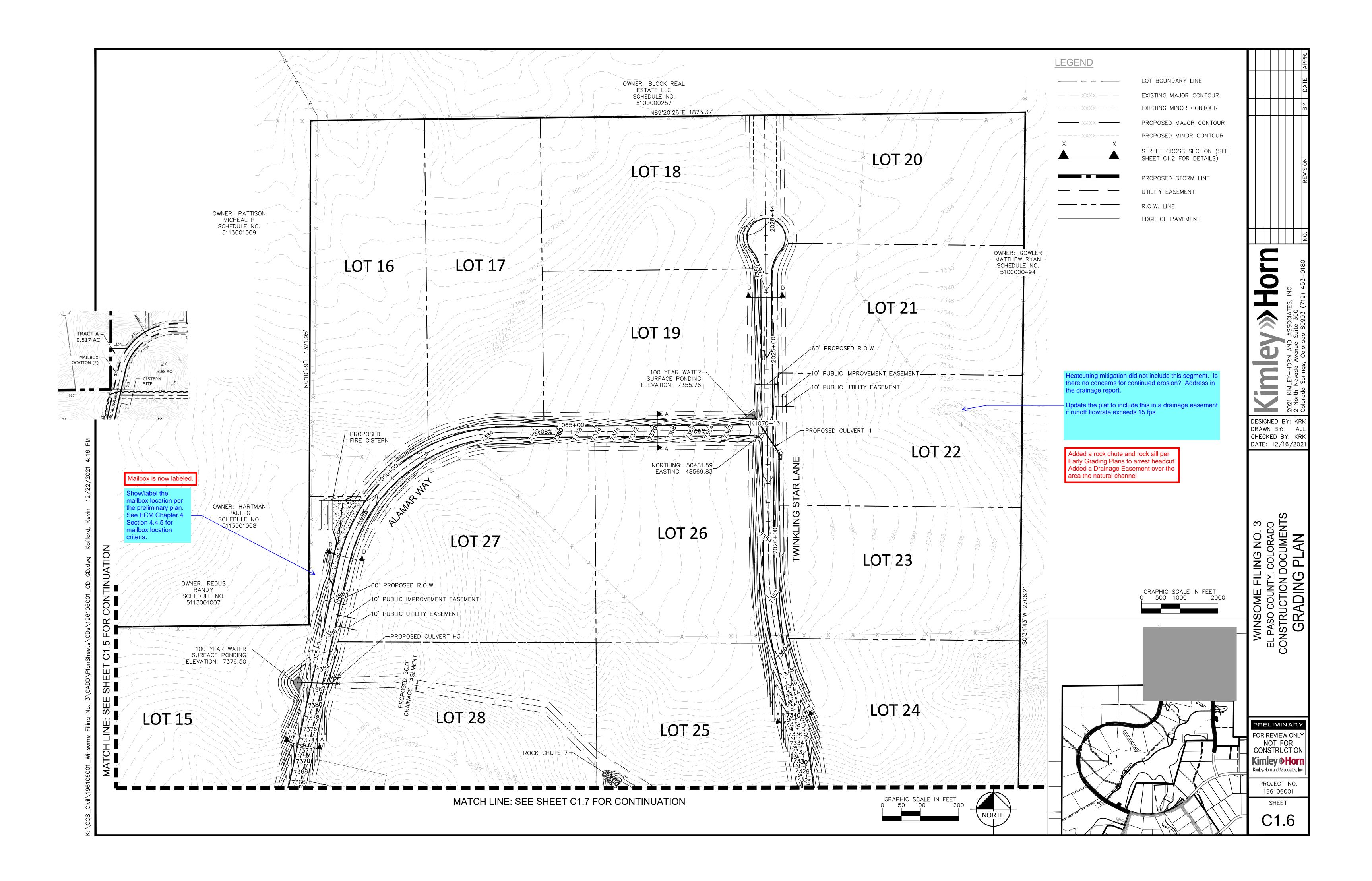
DESIGNED BY: KRK DRAWN BY: AJ CHECKED BY: KRK DATE: 12/16/202

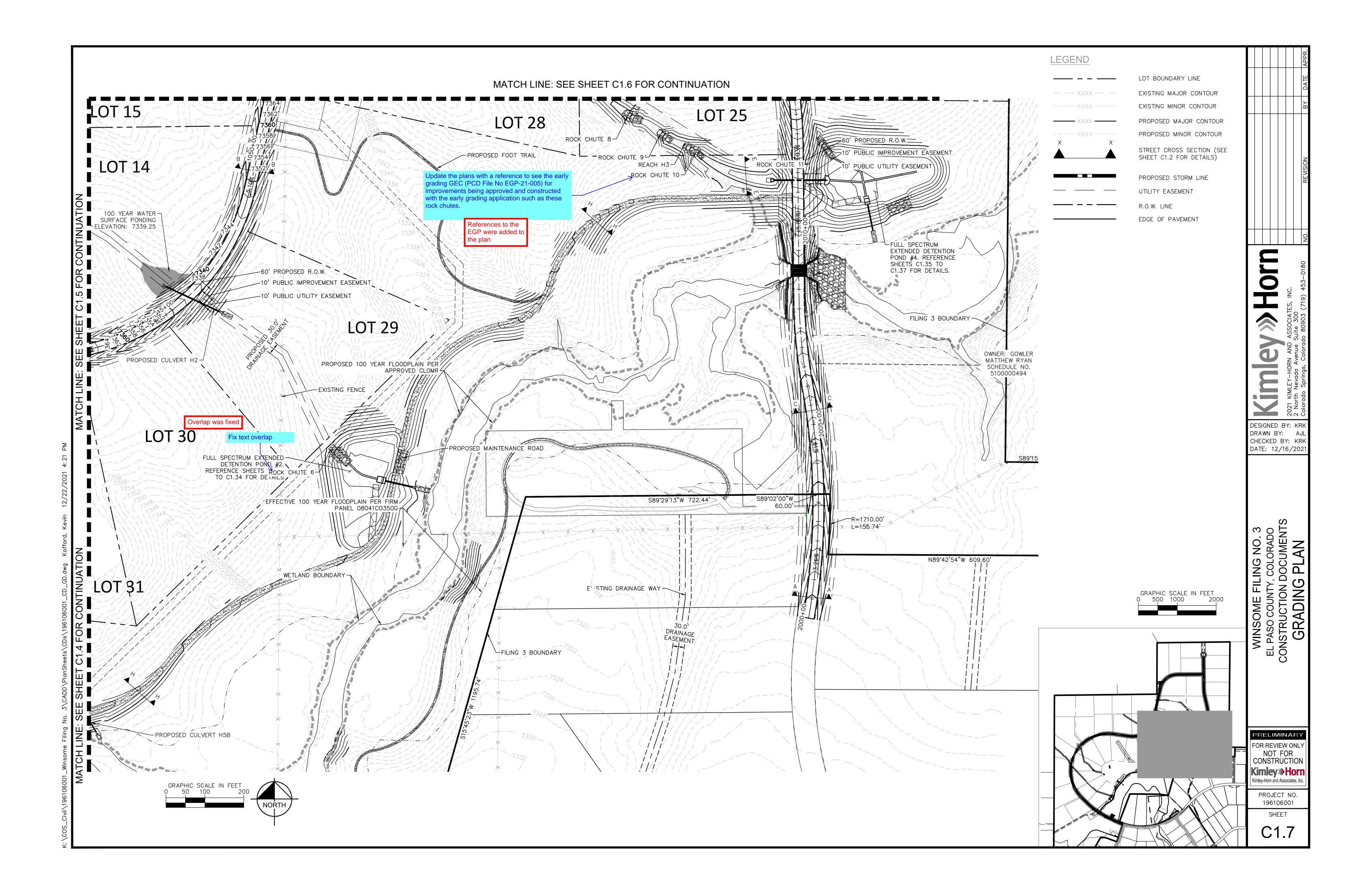
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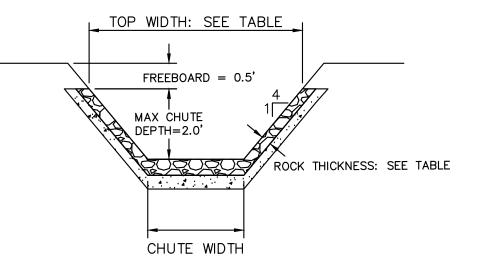






Remove sheet unless there are rock chutes that are constructed with Winsome Fil 3 that was not included with the earl trading construction plans.

Sheet was removed. Rock Chute Details are in the Early Grading Permit



# STANDARD ROCK CHUTE PROFILE- CROSS SECTION 2 N.T.S.

			I I water a ma	Drop (ft)		Downstrage					Min Dool		
	Channel		Upstream Inlet Apron	(Inlet Apron to Outlet	Chute Length	Downstream Outlet Apron			Rock Chute		Min Rock Chute Depth	Rock Chute	Top Chute
Rock Chute ID	Location	Flow (cfs)	· ·	Apron)	(ft)	·	Chute Width (ft)	D50 (in)	Thickness (in)	Radius (ft)	(ft)	Depth (ft)	Width (ft)
1	H1	45	10	7	28	14	12	12	24	33	1.09	2.00	28
2	H1	45	10	5	20	14	12	12	24	33	1.09	2.00	28
3	H4	17	10	13	52	8	12	9	18	25	0.58	2.00	28
4	Pond 1	107	10	6	24	15	24	18	36	50	1.27	2.00	40
5	H5B	29	10	8	32	18	4	18	36	50	1.54	2.00	20
6	Pond 2	110	10	8	32	18	17	18	36	50	1.57	2.00	33
7	Н3	58	10	6	24	15	12	18	36	50	1.27	2.00	28
8	Н3	58	10	6	24	15	12	18	36	50	1.27	2.00	28
9	Н3	58	10	6	24	15	12	18	36	50	1.27	2.00	28
10	Н3	58	10	6	24	15	12	18	36	50	1.27	2.00	28
11	Pond 4	26	10	10	40	11	10	9	18	25	0.85	2.00	26
12	WQ Pond	100	11	5	20	20	12	18	36	50	1.81	2.00	28
13	WQ Pond	57	10	3	12	16	10	18	36	50	1.38	2.00	26

3 STANDARD ROCK CHUTE DIMENSION TABLE N.T.S.

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS

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2021 2 Nor

DESIGNED BY: KRK DRAWN BY: AJL CHECKED BY: KRK

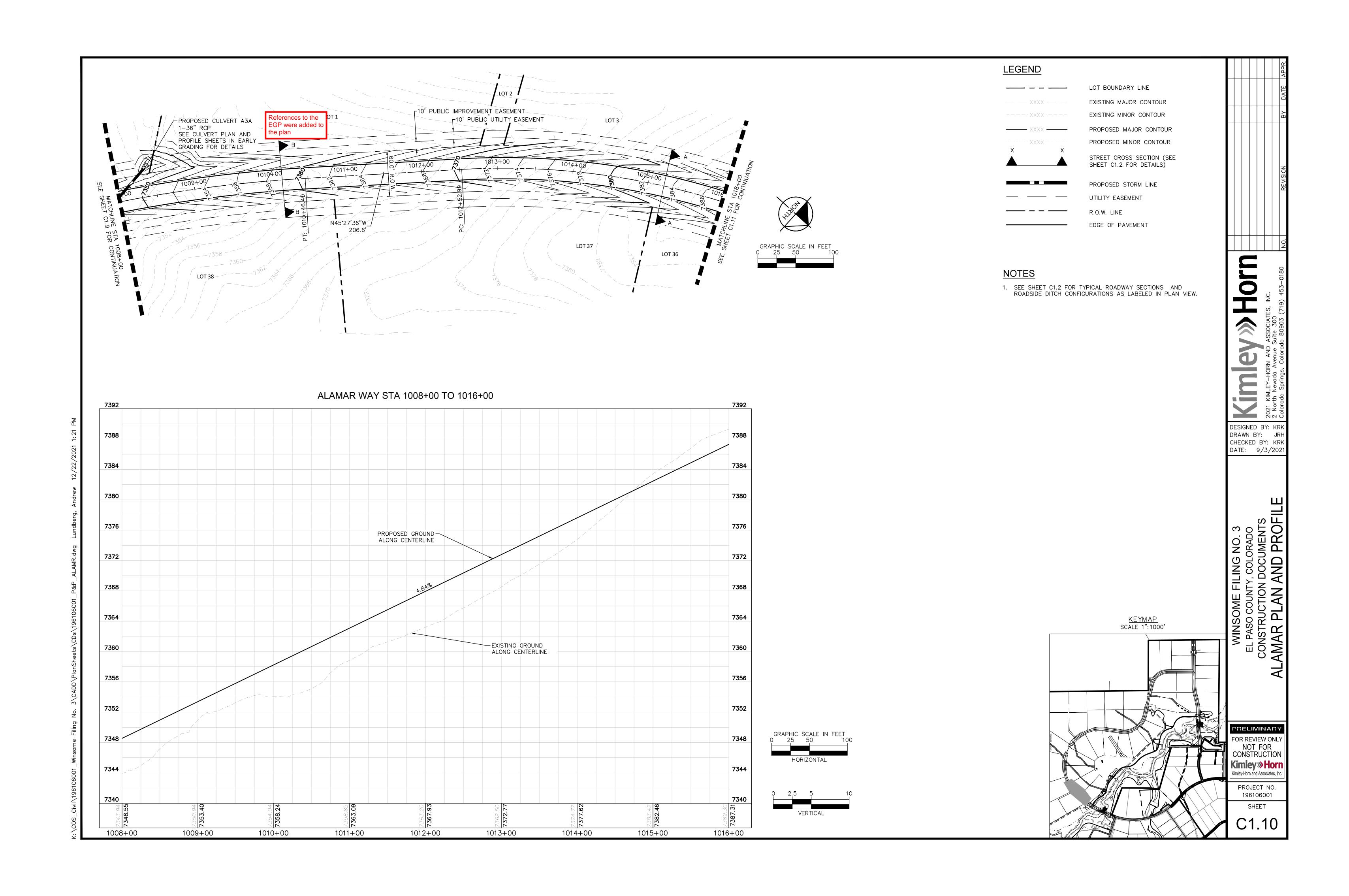
DATE: 12/16/202

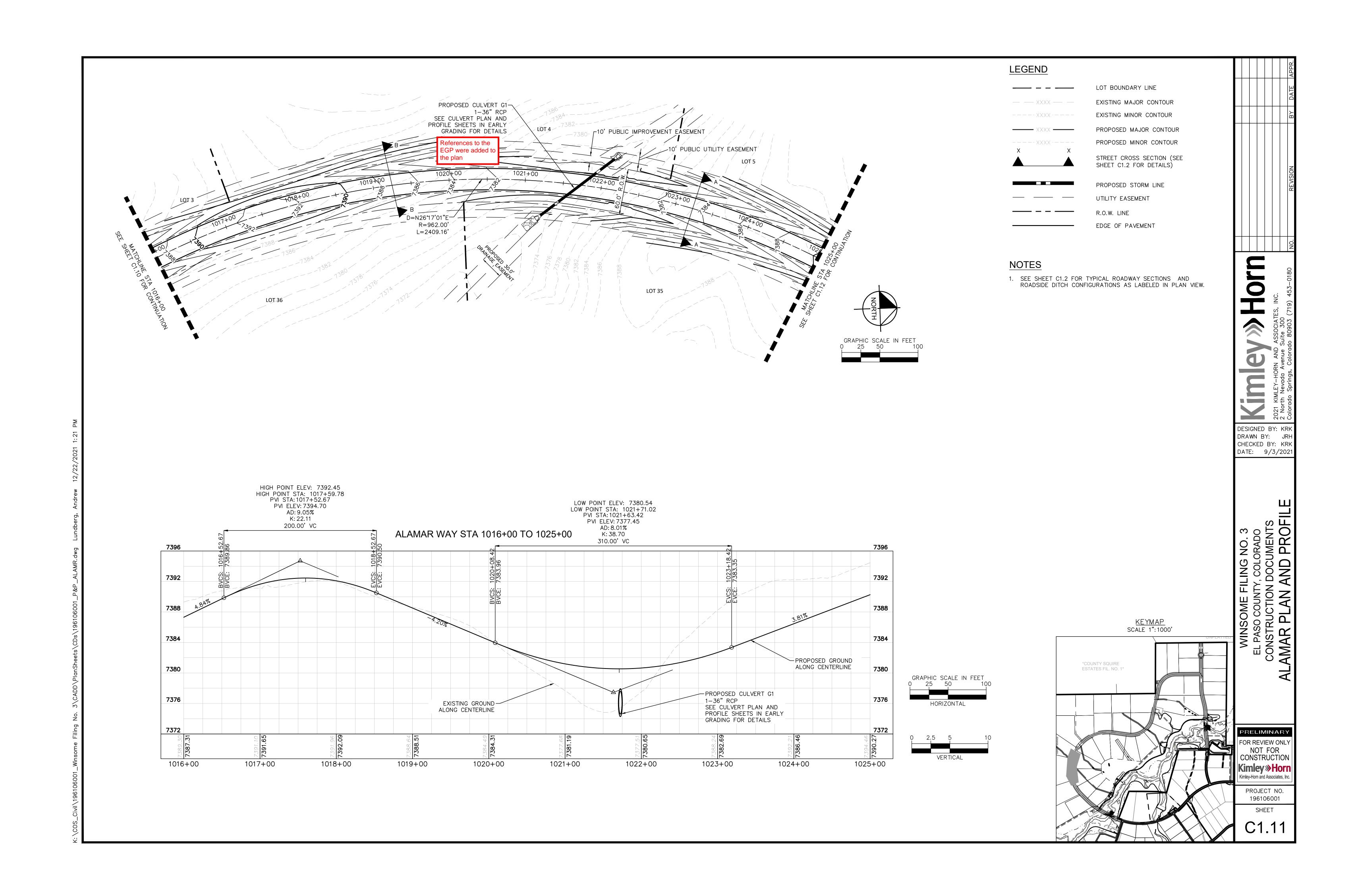
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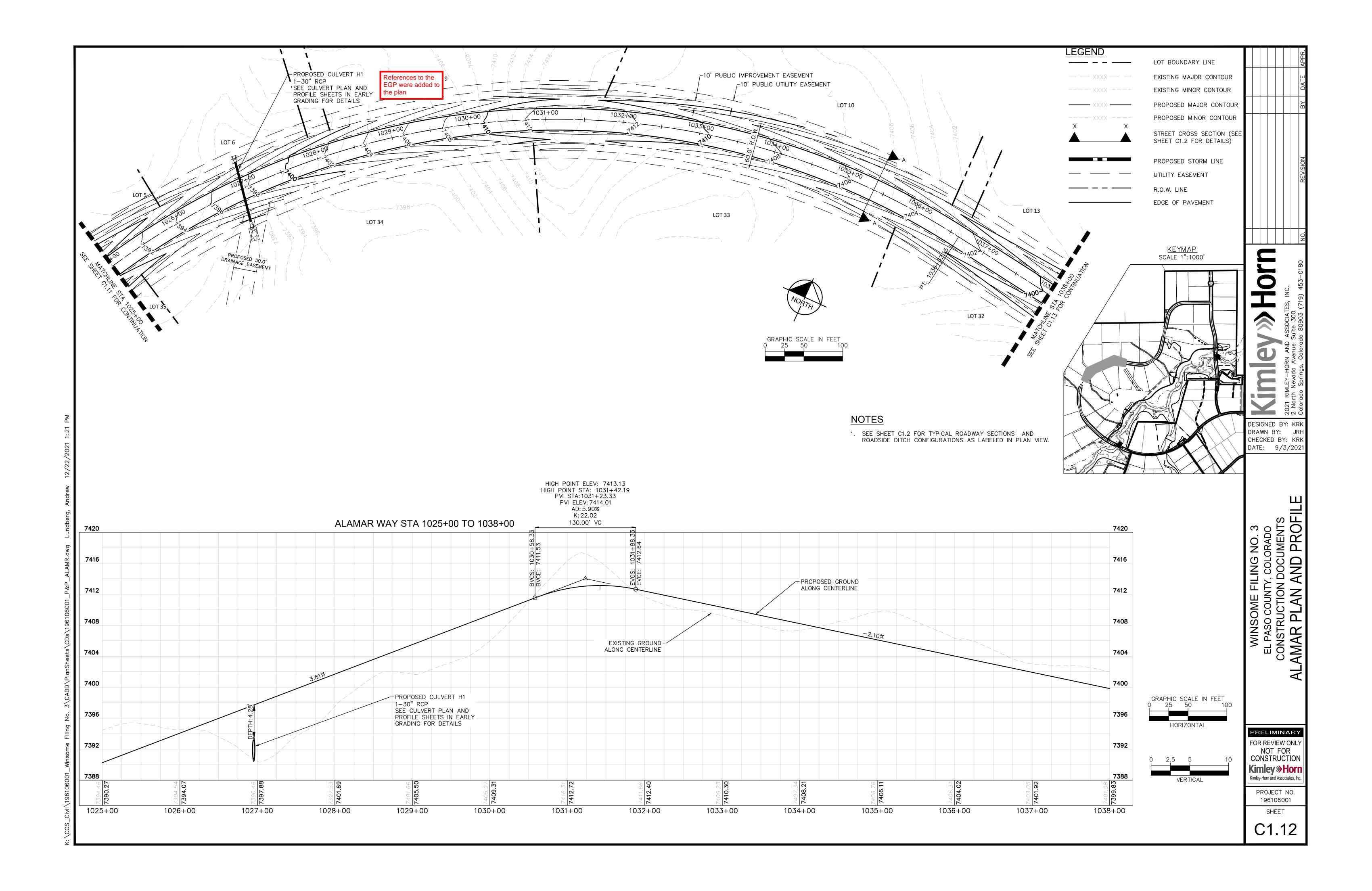
PROJECT NO. 196106001 SHEET

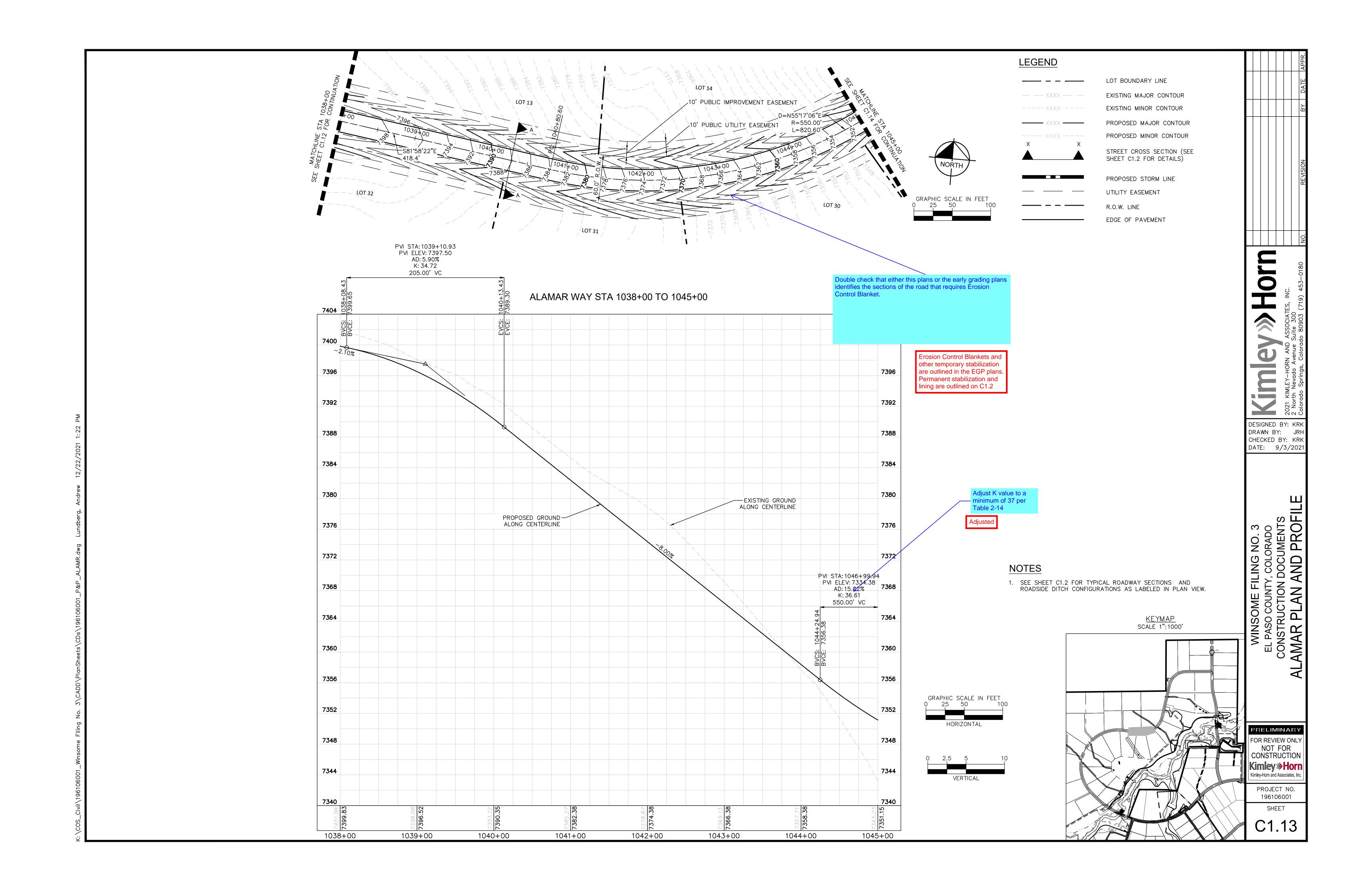
contractor needs to look at for construction details or include in this plan set. LEGEND update the reference to include "PCD File No. CDR2112". TO CDR-21-012 LOT BOUNDARY LINE adjusted to include Typical for all callouts that project number erences construction plans — — XXXX — — EXISTING MAJOR CONTOUR -PROPOSED CULVERT 1 proved under a different project 120" RC BOX CULVERT EXISTING MINOR CONTOUR -----SEE CULVERT PLANS FOR DETAILS r 10' PUBLIC IMPROVEMENT EASEMENT PROPOSED MAJOR CONTOUR -10' PÚBLIC UTILITY EASEMENT PROPOSED MINOR CONTOUR STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS) 1,006+00 1002+007 PROPOSED STORM LINE UTILITY EASEMENT R=1800.00' R.O.W. LINE EDGE OF PAVEMENT PROPOSED GRAVEL — MAINTENANCE ROAD EFFECTIVE 100 YEAR FLOODPLAIN PER FIRM PANEL 08041C0350G EFFECTIVE 100 YEAR PROPOSED 100 YEAR FLOODPLAIN PER FIRM FLOODPLAIN PER PANEL 08041C0350G PROPOSED CULVERT A3A -APPROVED CLOMR 1-36" RCP/ Revise name to be consistent with PROPOSED FOOT TRAIL -SEE CULVERT PLAN AND O the detail and update the callout to PROFILE SHEETS IN EARLY pdate riprap extents GRADING FOR DETAILS LOT 38 include a reference. Staff is o match the culvert plans assuming this is detail (G) Gravel Trail in sheet C1.2 FILING 3 BOUNDARY add PCD File No Typical for all GRAPHIC SCALE IN FEET adjusted label for adjusted to include consistency and project number included reference to C1.2 Adjust intersection grade. Per ECM Table 2-22 and 2-23 the Intersection Grade approach grade to the intersection must be 1% min to 4% max and Profile has for a distance of 100 ft. been adjusted DESIGNED BY: KRK DRAWN BY: JR CHECKED BY: KRK DATE: 9/3/202 ALAMAR WAY STA 1000+00 TO 1008+00 7352 7352 LOW POINT ELEV: 7331.46 LOW POINT STA: 1003+15.88 PVI STA: 1003+28.26 PVI ELEV: 7325.70 7348 AD: 9.23% WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
LAMAR PLAN AND PROFILE K: 54.16 500.00' VC F00. 73440 7344 NOTES -PROPOSED GROUND ALONG CENTERLINE 1. SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND 7336 7336 ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW. KEYMAP SCALE 1":1000' 7332 PROPOSED CULVERT A3A-1-36" RCP SEE CULVERT PLAN AND PROFILE SHEETS IN EARLY GRADING FOR DETAILS 7328 7328 A -PROPOSED CULVERT 1 7324 7324 120" RC BOX CULVERT GRAPHIC SCALE IN FEET SEE CULVERT PLANS FOR DETAILS 25 50 EXISTING GROUND -7320 7320 HORIZONTAL ALONG CENTERLINE PRELIMINARY FOR REVIEW ONLY 7316 NOT FOR CONSTRUCTION Kimley»Horn VERTICAL Kimley-Horn and Associates, Inc 1007+00 1001+00 1000+00 1003+00 1004+00 1005+00 1006+00 1008+00 1002+00 PROJECT NO. 196106001 SHEET

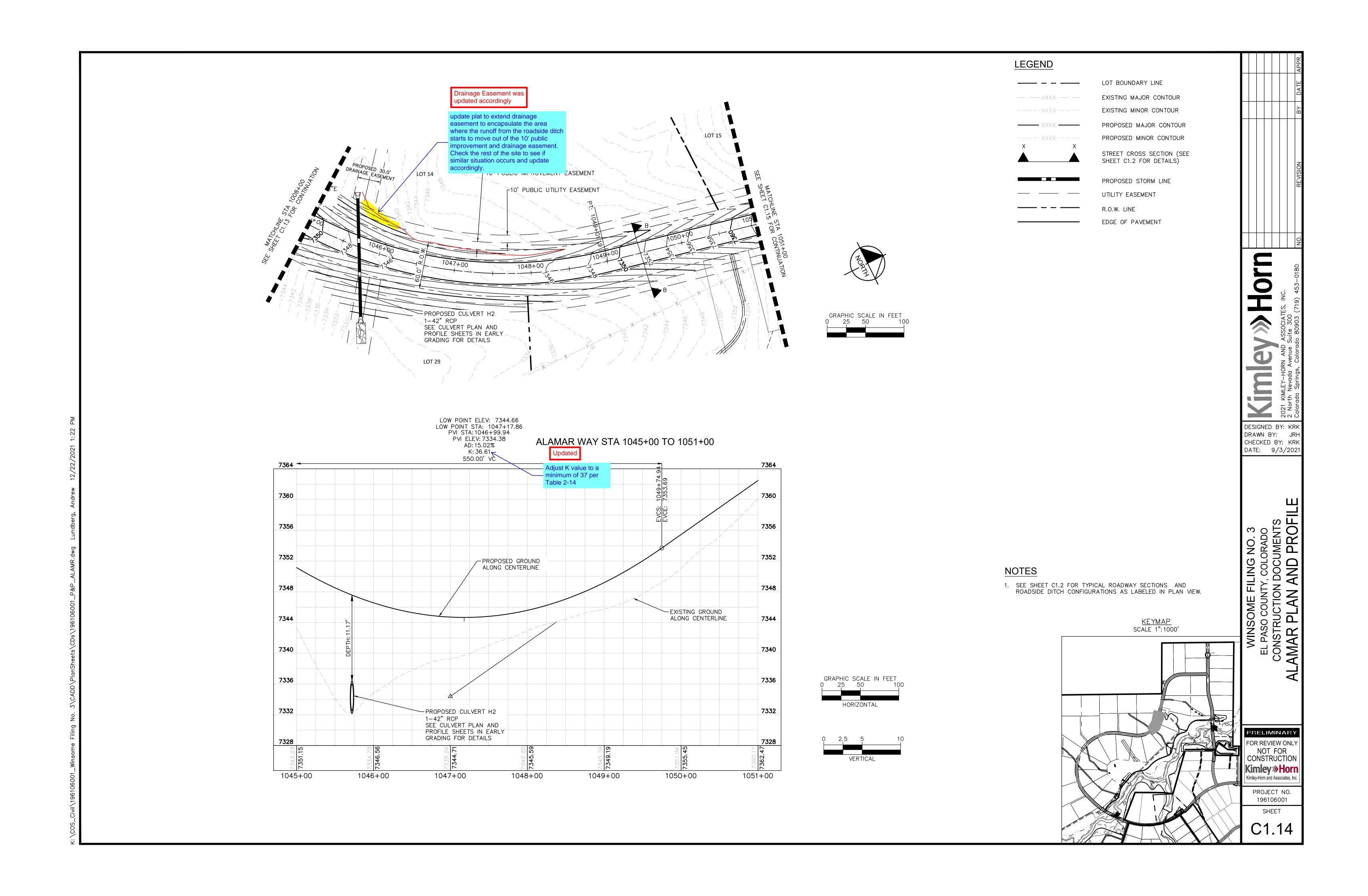
label the guardrail and reference which plan

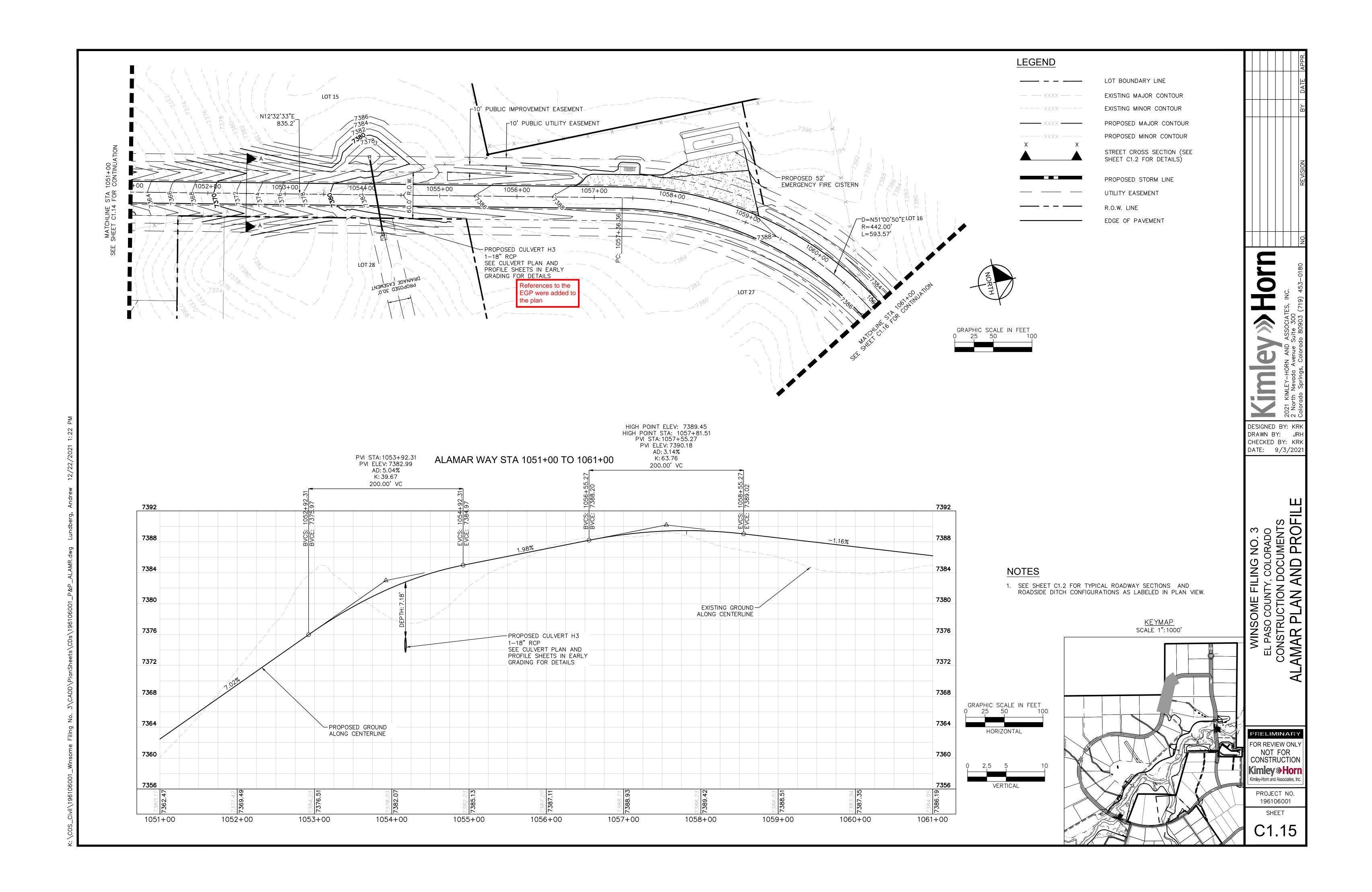


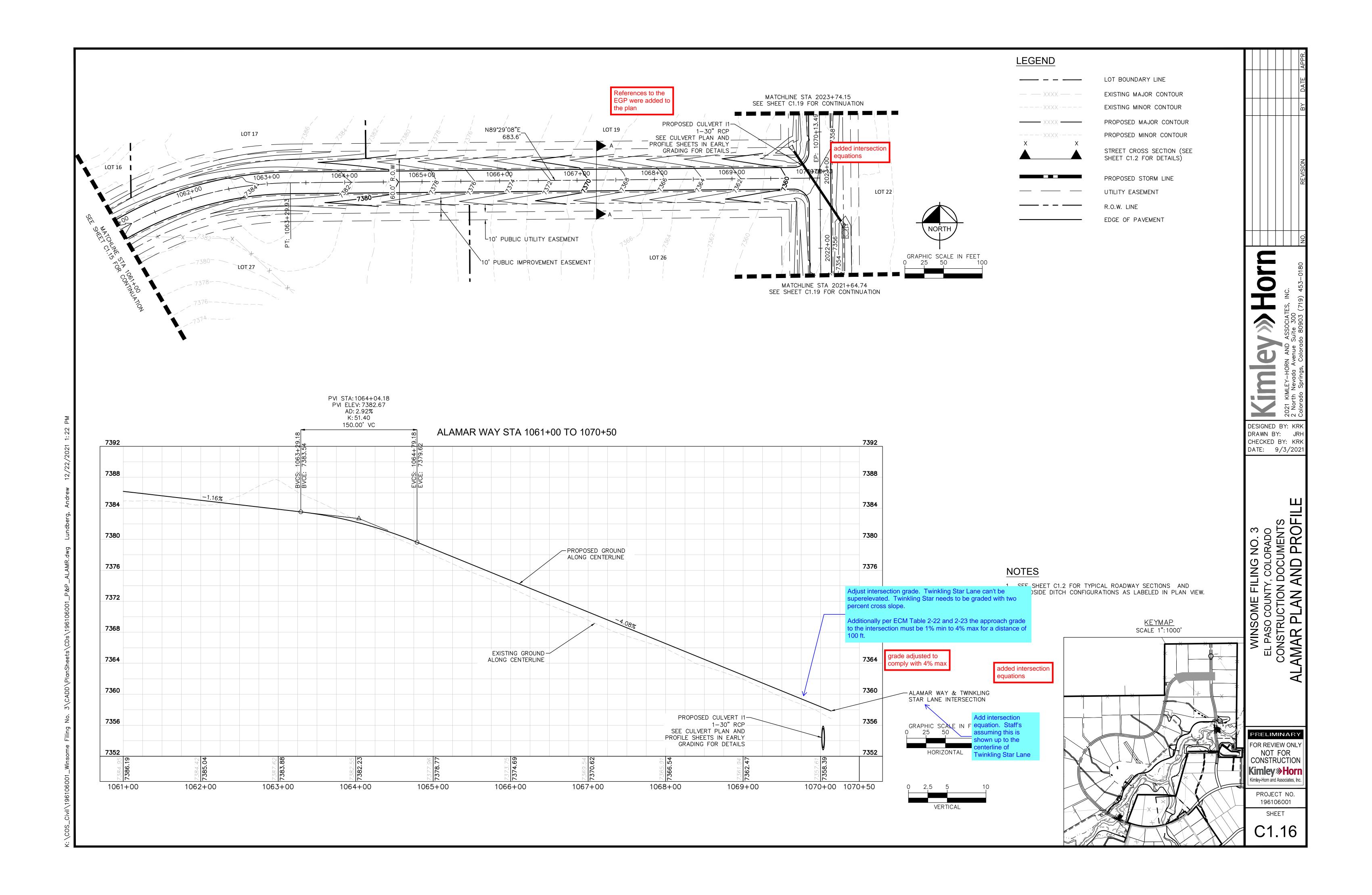


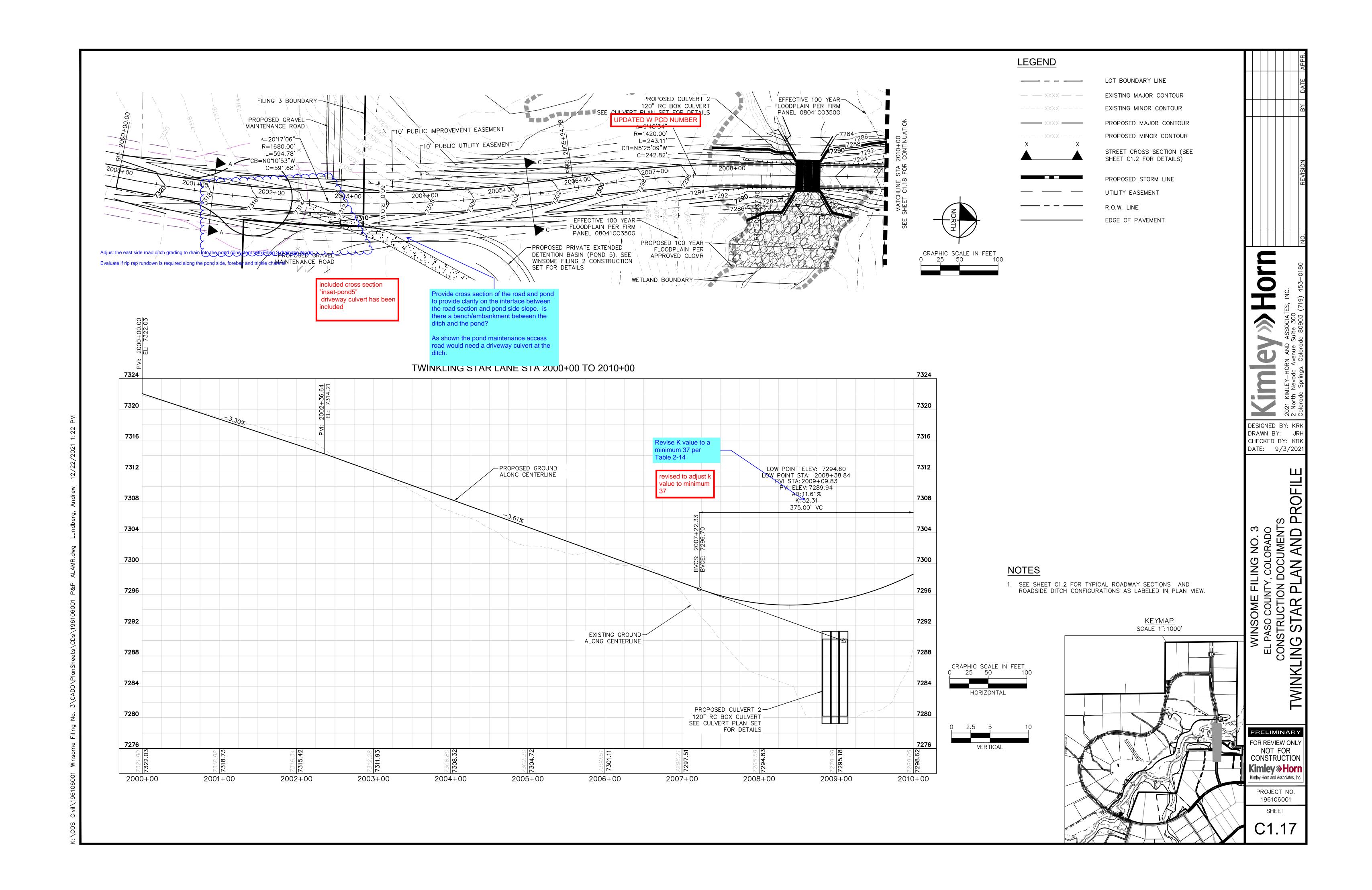


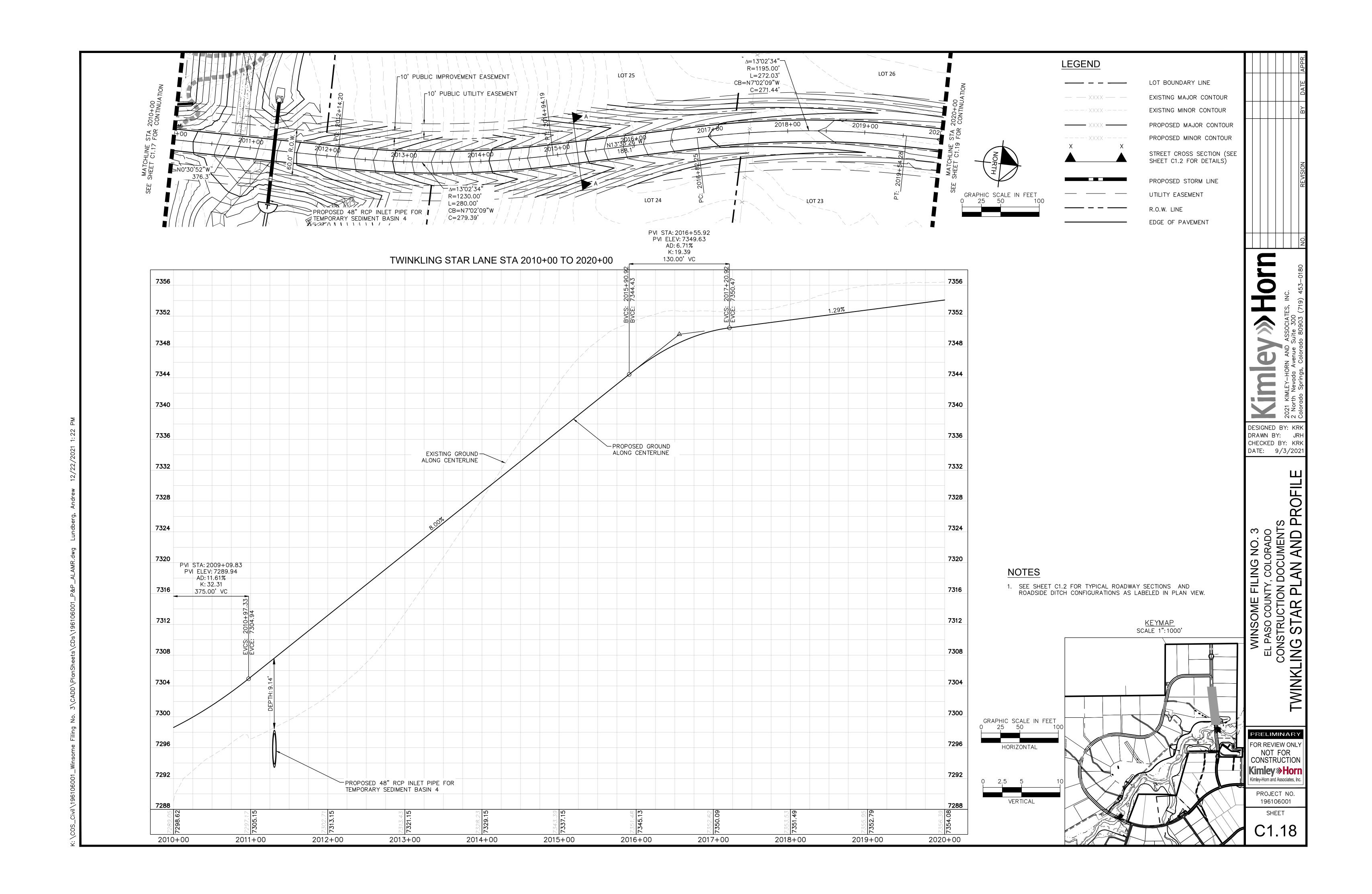


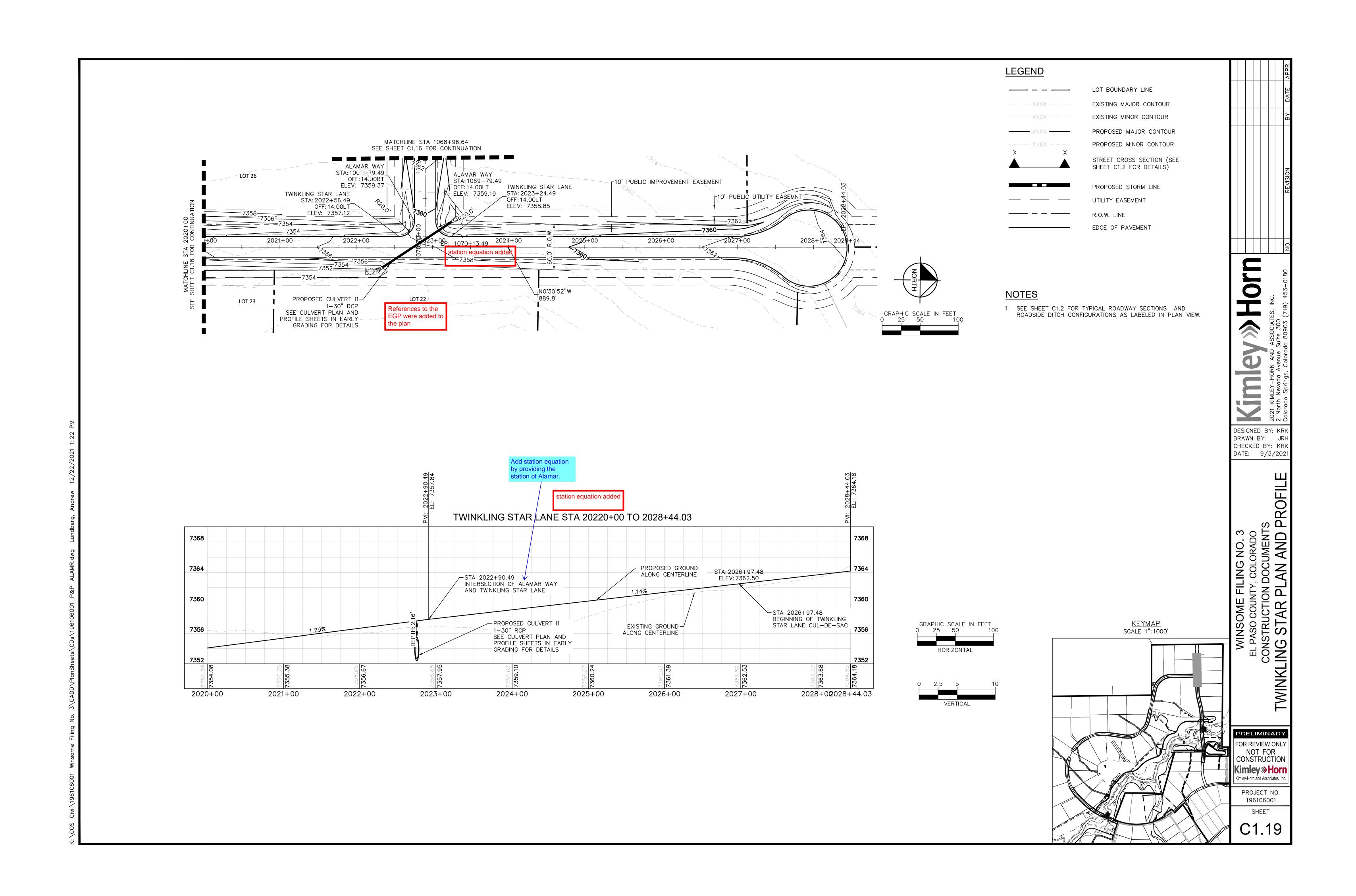


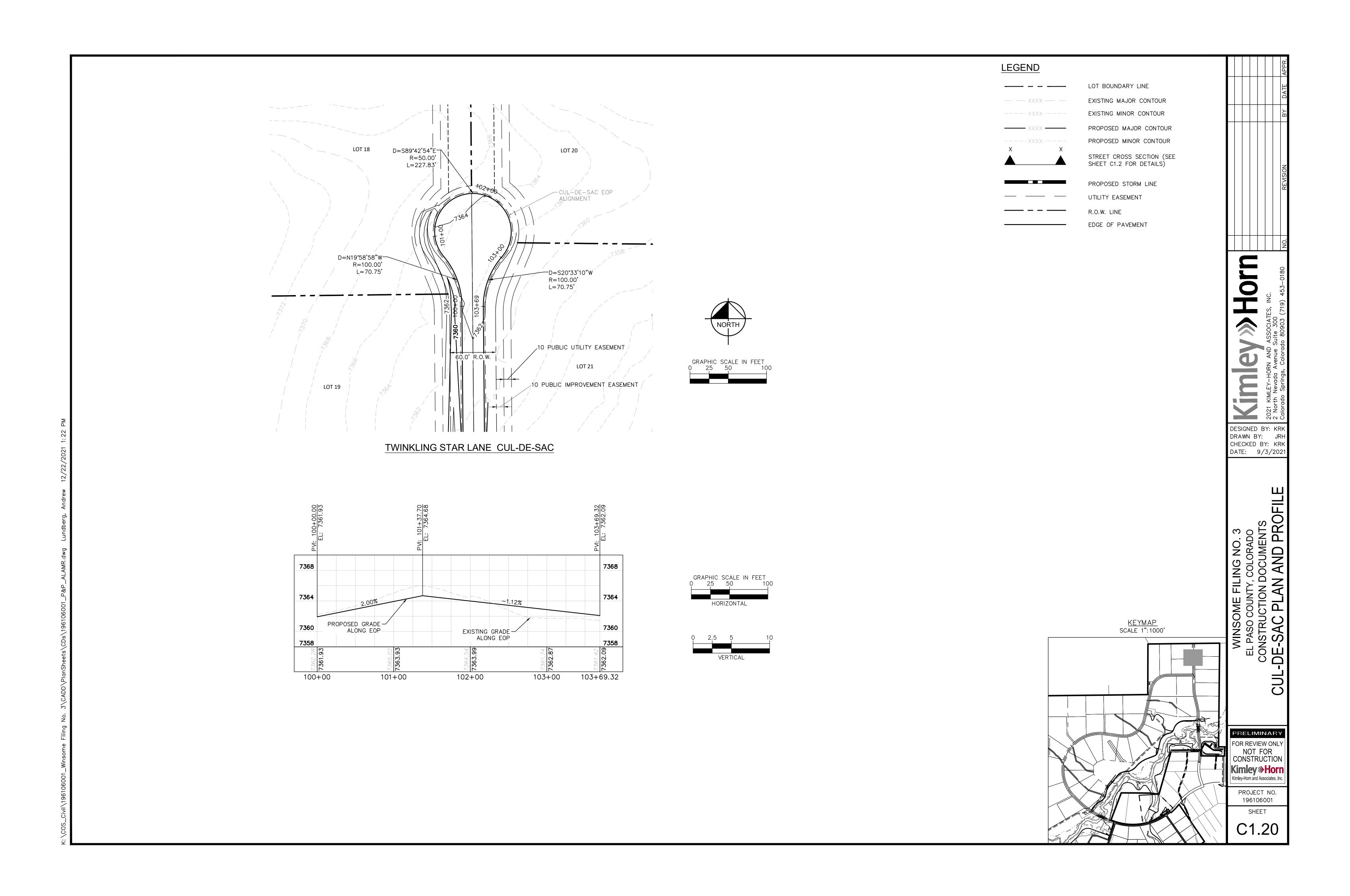


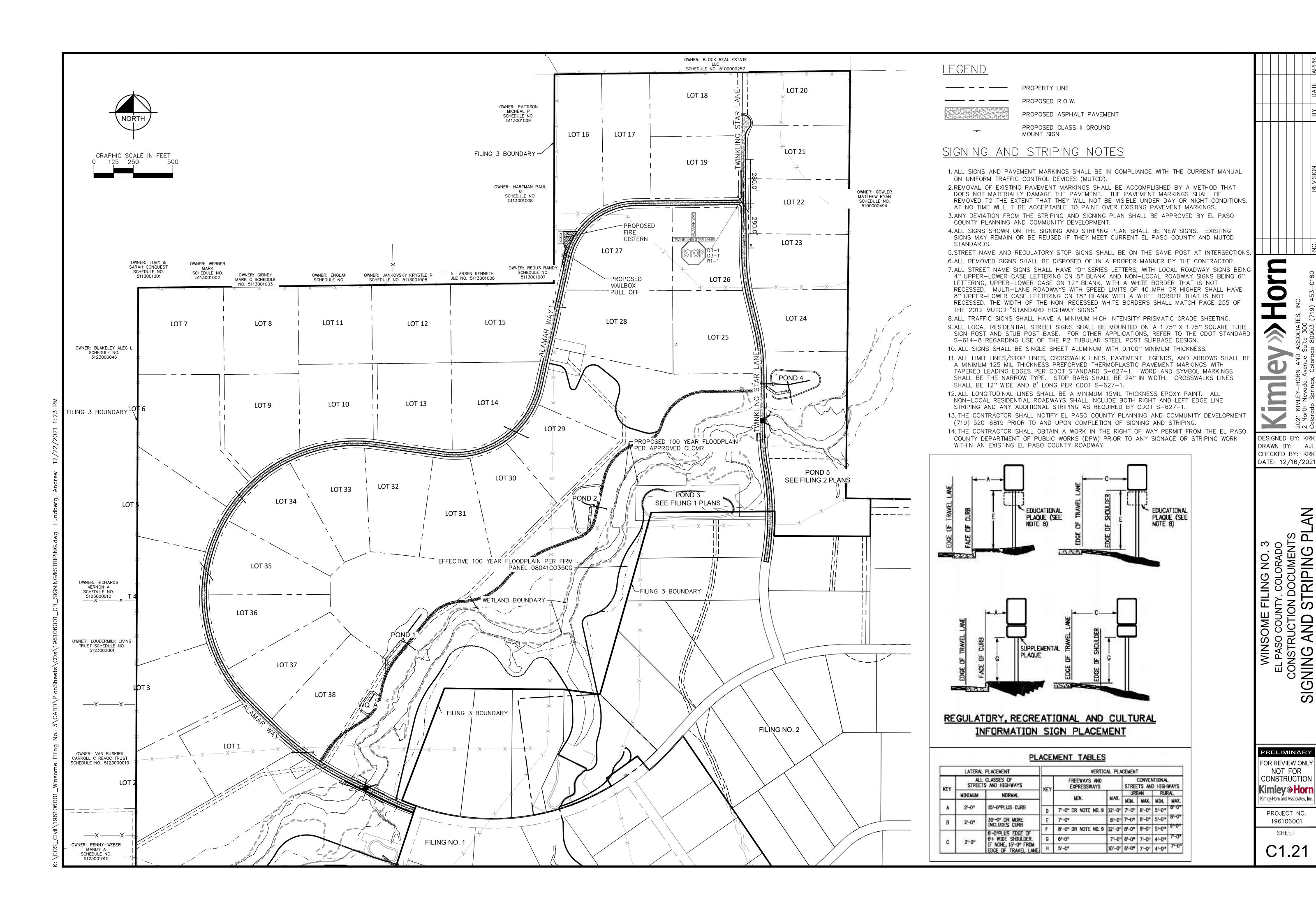


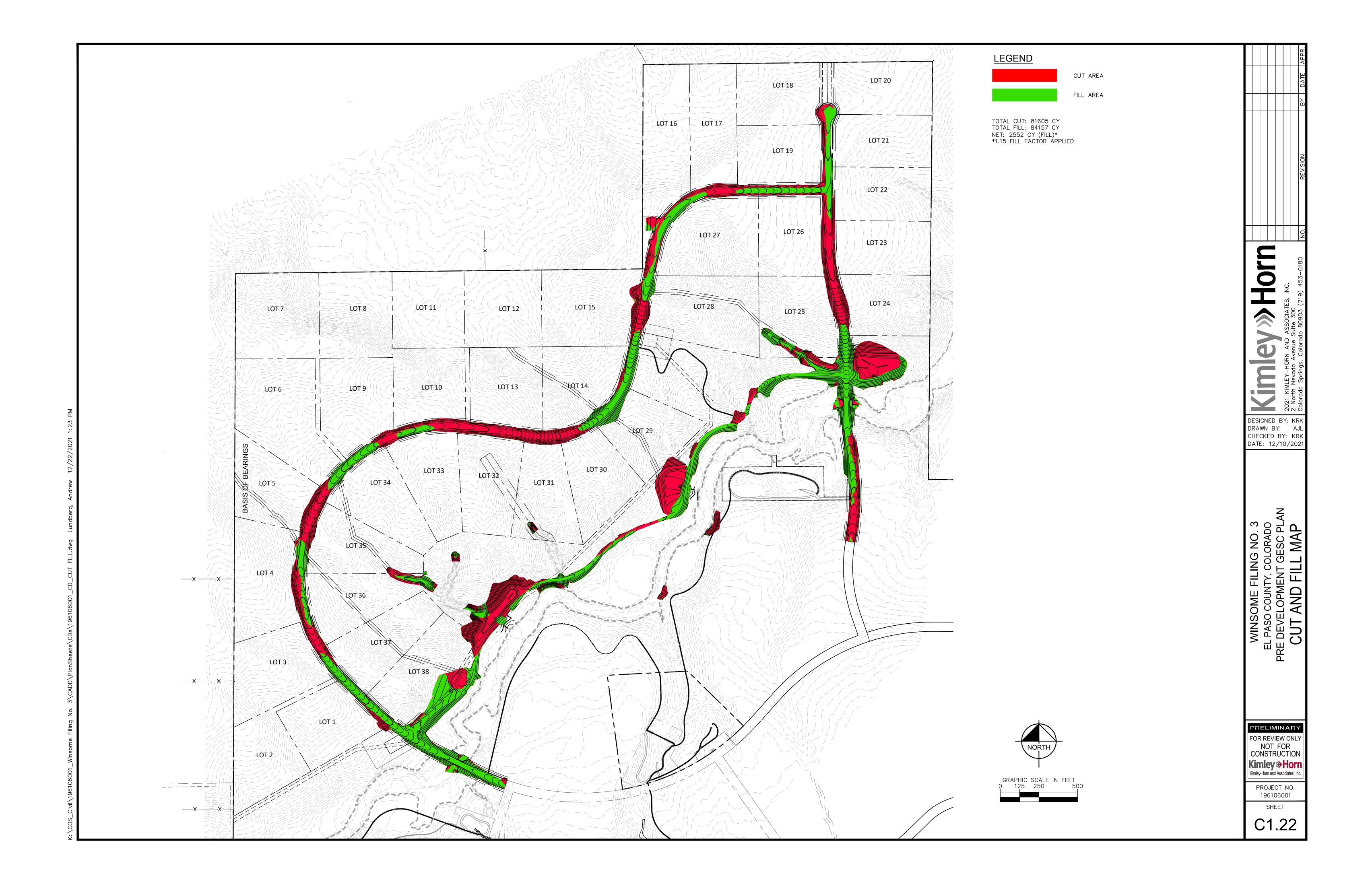






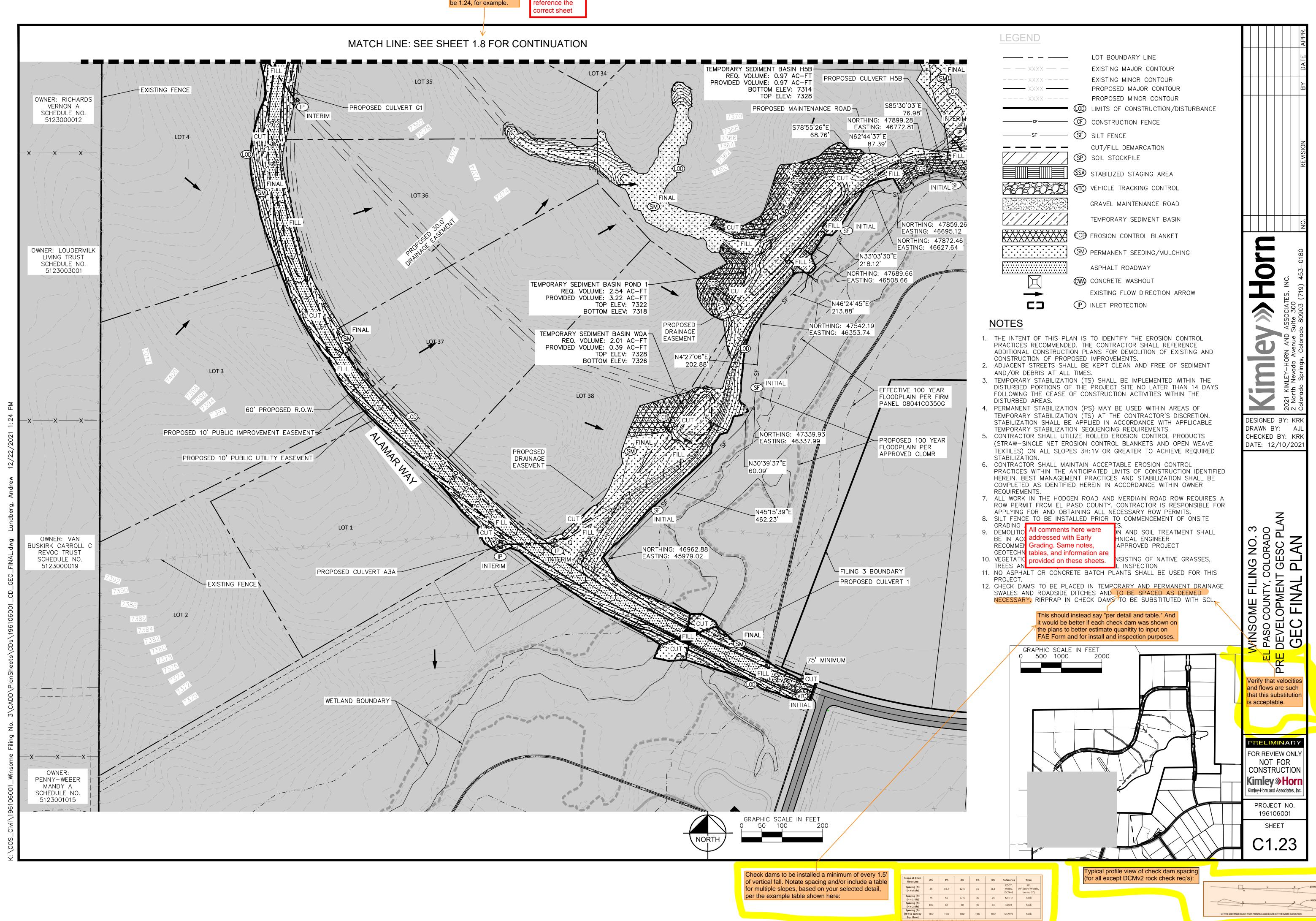


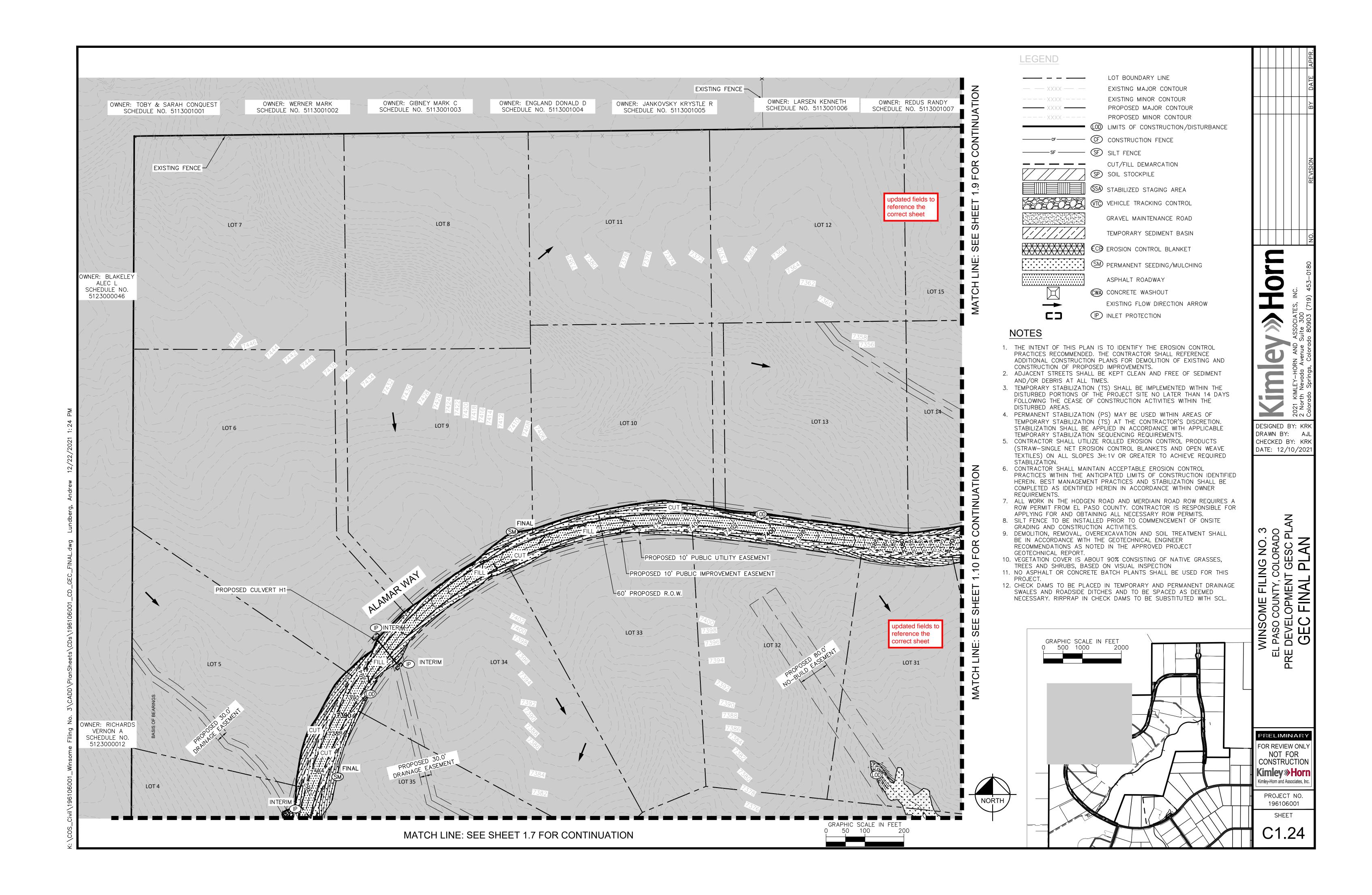


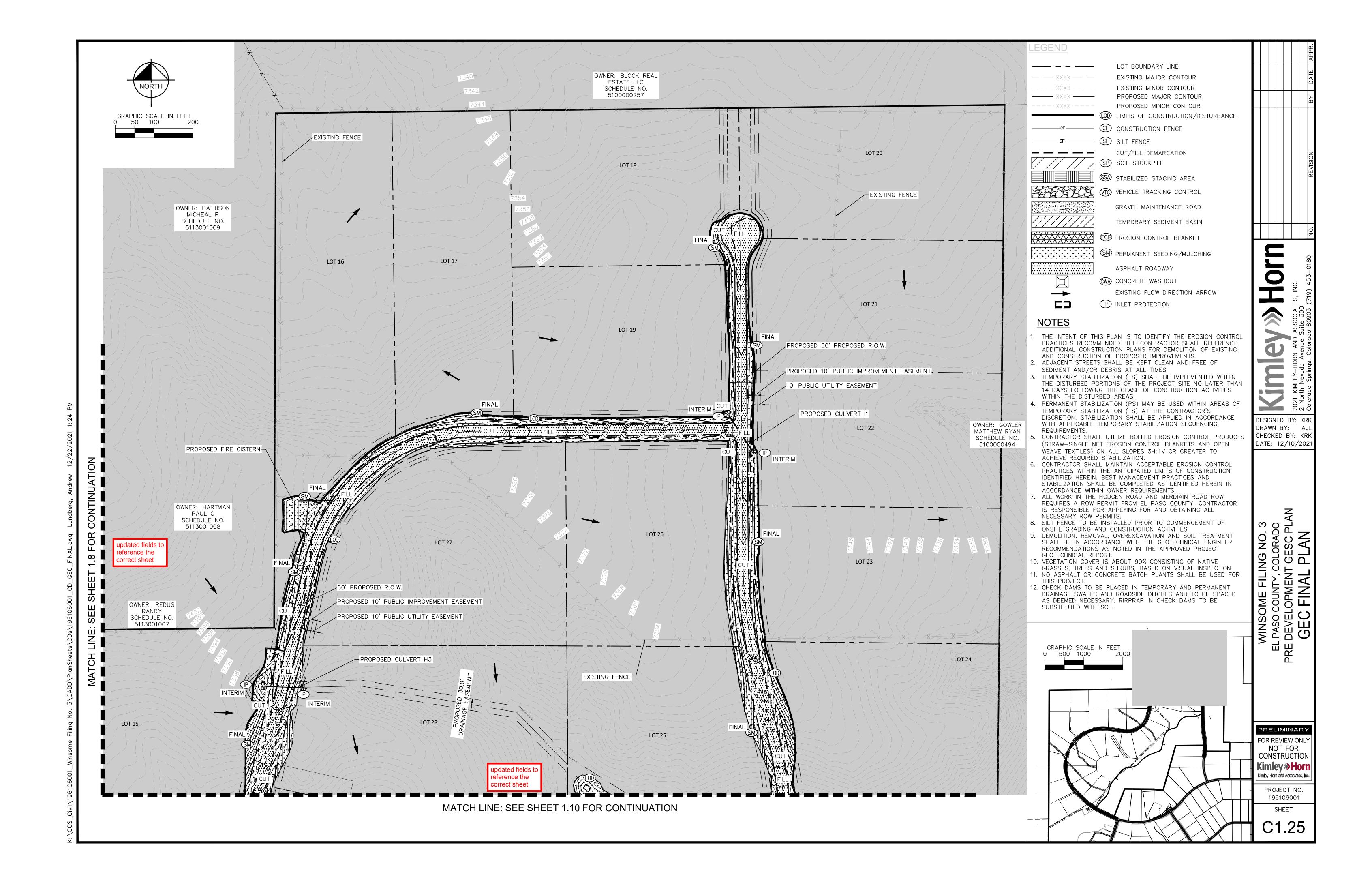


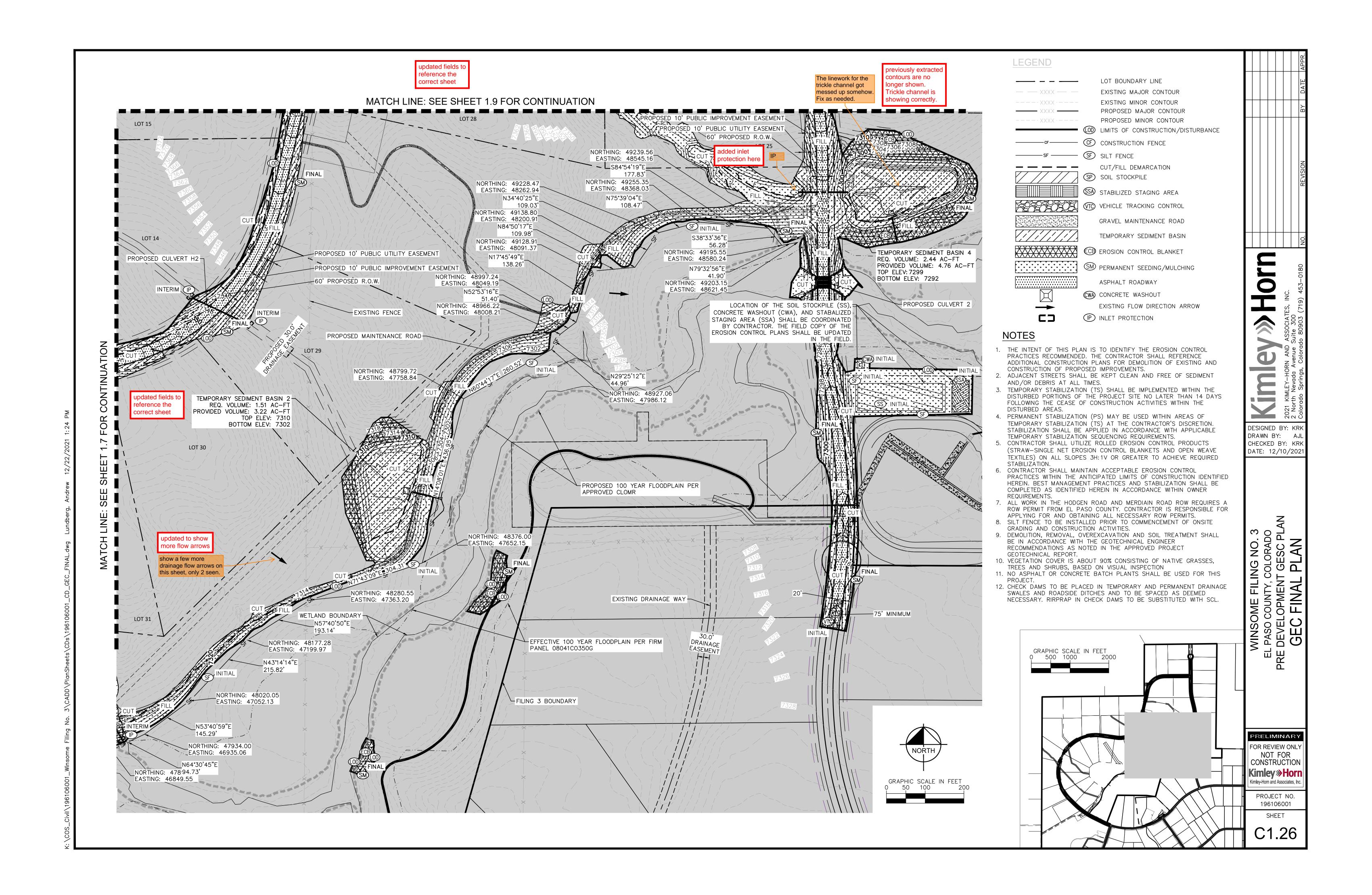
Revise sheet #'s on matchlines on this sheet and all subsequent sheets. This one should be 1.24, for example.

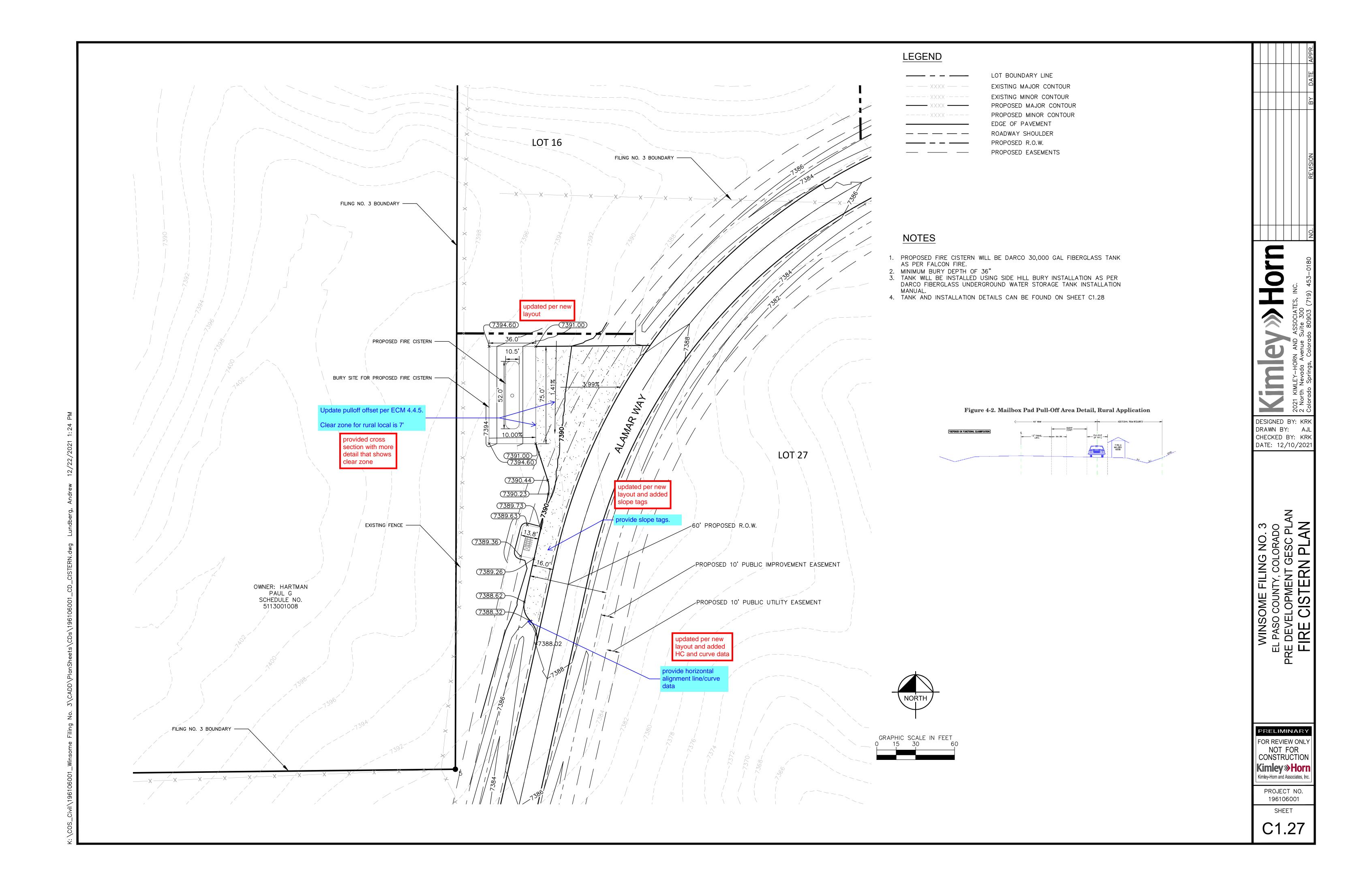
updated fields to reference the correct sheet

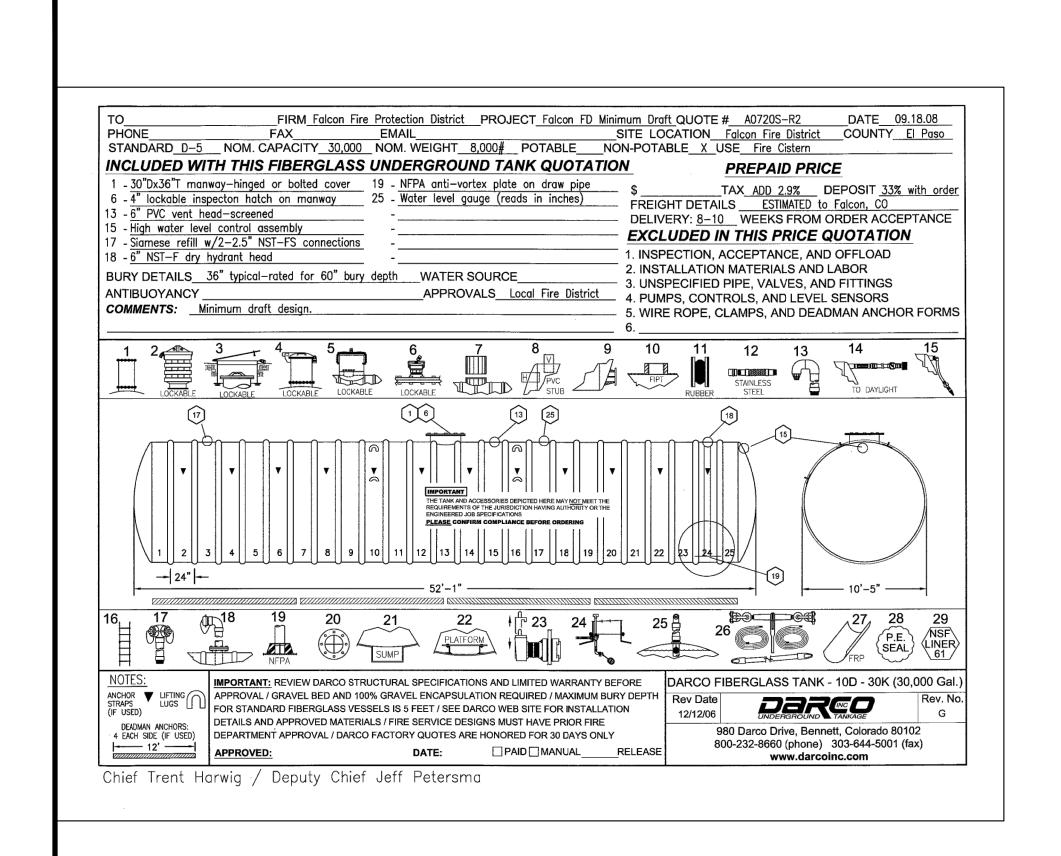












# INTRODUCTION 2. SIDE HILL installations require that no less than the bottom half of the tank be captured in a pocket of undisturbed natural soil for proper support. If high ground water or perched water is probable, install a **sub-drain** or bed drain running down hill to daylight to relieve any water trapped in the tank bedding material. Side hill bury installation 36" Bury depth Original grade Seotextile fabric between gravel and soil cover. DARCO UNDERGROUND WATER TANK tank must be captured in an undisturbed Fabric sock © 2020 DARCO, INC – ALL RIGHTS RESERVED 21 www.darcoinc.com

CONCRETE -SLAB ANCHOR 🖄 SIDE PROJECTION SLAB ANCHOR DETAILS EXTREME CONDITIONS - LOCATE ANCHOR LUGS PER YOUR QUOTE DRAWING ANCHOR END (also see Anti-Flotation Slab Anchors sheet 1) UNDERGROUND TANKAGE ANTI-FLOTATION SLAB ANCHOR DETAILS riangle use full slab anchor if ground water is anticipated above spring line (extreme conditions). DARCO INCORPORATED 800-232-8660 www.darcoinc.com IMPORTANT - NOT ALL TANKS REQUIRE ANCHORING. NOT TO SCALE, FOR ILLUSTRATION ONLY

Item Z. Include details for the following BMP's, which are shown on the GEC Plans above. Examples of acceptable details for each are provided:

Sheets with the GEC details indicated below were added to the plan

		De	etail # and Source		
BMP -	ECM (Appendix F)	DCM (Vol 2: Chap 3.3)	MHFD (USDCM Vol 3: Chap 7)	COS - Stormwater  Construction  Manual (App E	CDOT Standard Plans on M-208-
Concrete Washout	SD_3-84		MM-1	Χ	X
Inlet Protection	SD_3-60 (sandbags at drop inlet and gutter upstream of inlet) SD_3-86 (for steep slope above inlet)	IP-1 (SF at drop inlet), IP-2 (straw bale at drop inlet) IP-3 (rock socks or blocks around inlet), IP-4 (rock socks in upstream gutter)	SC-6 (RS & blocks around curb and drop inlets, rock socks at culverts, SF & straw at drop inlets)	X	X
Mulching		MU-1	EC-4	Χ	
Rolled Erosion Control Products		ECB-1, ECB-2	EC-6	X	
Seeding		TS-1	EC-2	X	
Sediment Basin		SB-1, SB-2	SC-7	X	
Silt Fence		SF-2, SF-3	SC-1	X	X
Stabilized Staging Area			SM-6		
Stockpile Protection & Mgmt			MM-2	X	
Vehicle Tracking Control		VT-1, VT-2	SM-4	X	Χ

Sheets with the GEC details indicated below were added to the plan

Make sure whichever detail you chose is modified (if necessary) to show a min length of 75ft.

196106001 SHEET

PRELIMINARY

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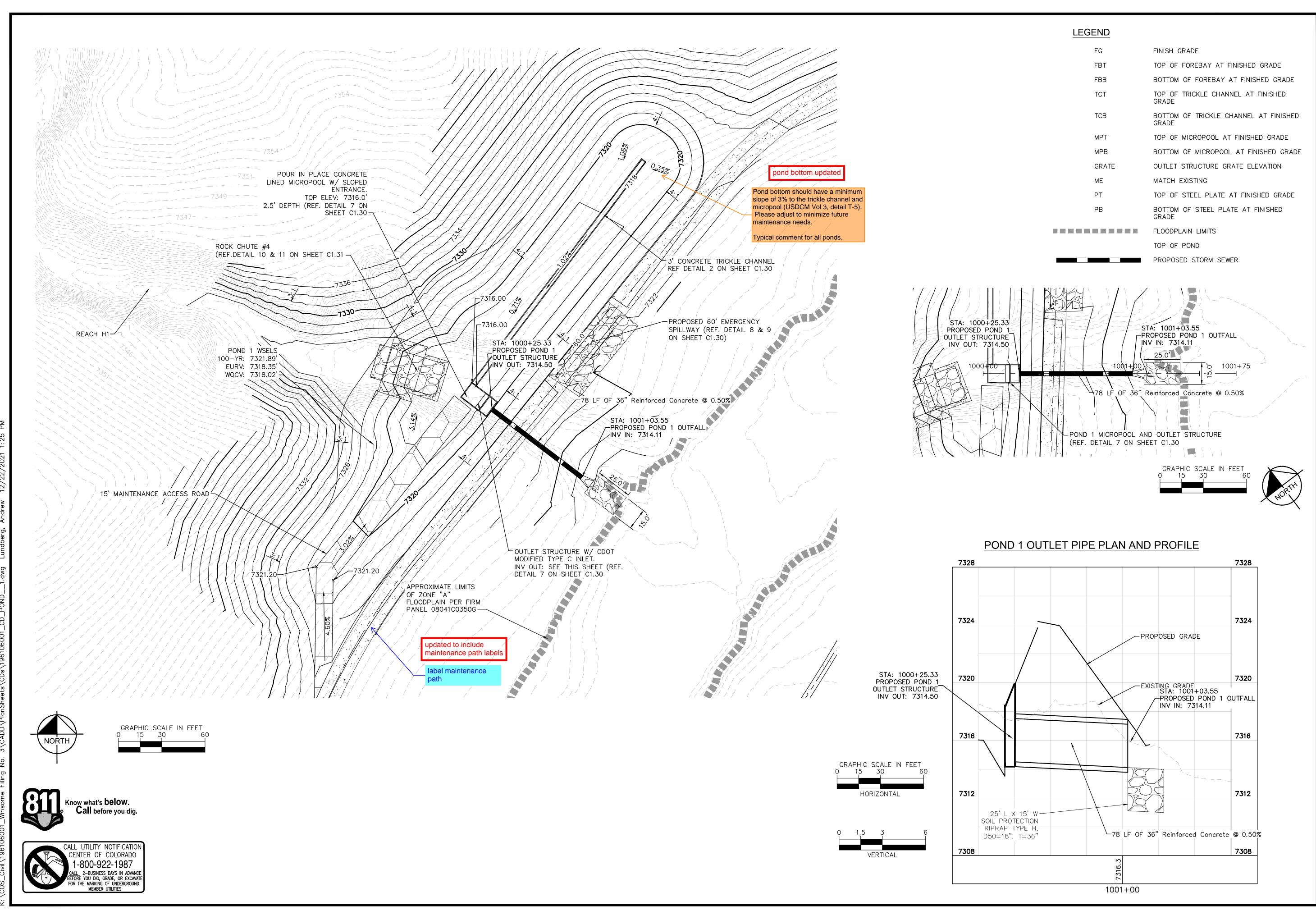
CONSTRUCTION

Kimley >>> Horn Kimley-Horn and Associates, Inc.

PROJECT NO.

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DESIGNED BY: KRK DRAWN BY: AJL CHECKED BY: KRK DATE: 12/10/2021



DESIGNED BY: KRK DRAWN BY: AJ CHECKED BY: KRK DATE: 12/16/202<sup>-</sup>

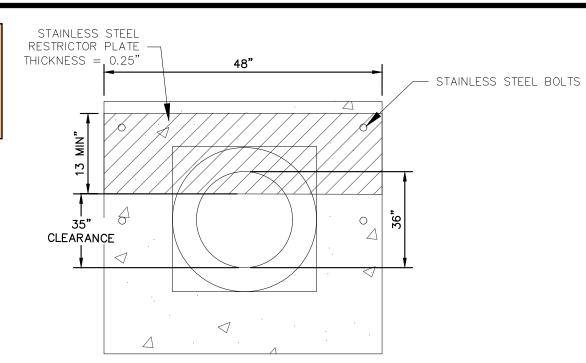
WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
POND 1 OVERVIEW

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Kimley-Horn and Associates, Inc

PROJECT NO. 196106001 SHEET

All comments on this details sheet are typical for the detail sheets for all ponds.



<u>100-YEAR FLOW RESTRICTOR B</u>

MAINTENANCE ROAD

MAINTENANCE PATH NOTES MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.

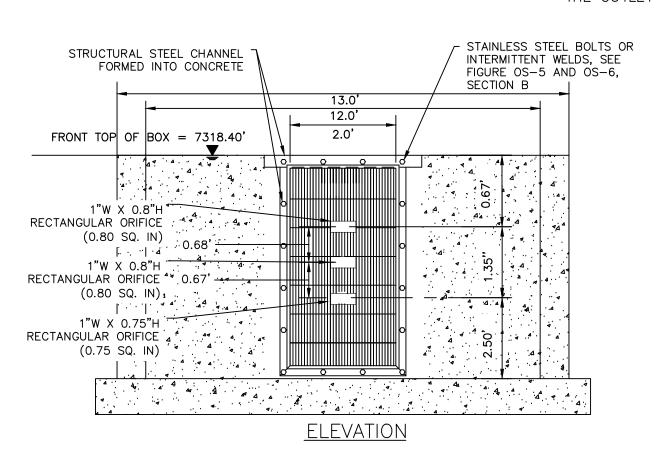
pdated to 3% min slope Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.

–1.8'(MIN)*–* WARNING UNAUTHORIZED MODIFICATION OF THIS OUTLET IS A ZONING CODE VIOLATION

CONCRETE TRICKLE CHANNEL

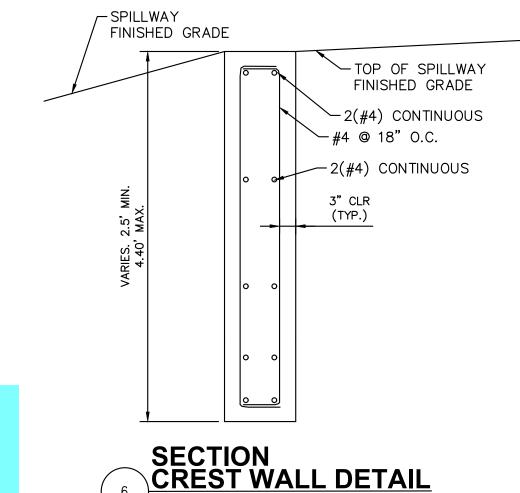
# **OUTLET SIGNAGE**

<u>OUTLET SIGNAGE NOTES</u> 1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.



emoved notes 3&4 for trash acks and safety grates

elete notes 3 & 4. This note is ended for the design engineer eparing the plans. The plans ppropriate trash rack or safety



## **ORIFICE PLATE AND TRASH RACK DETAIL**

## ORIFICE PLATE NOTES

1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE. 2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

## EURV AND WQCV TRASH RACKS

- WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
- 2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL
- 3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO
- 4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

## OVERFLOW SAFETY GRATES

- 1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
- 2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT
- DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING. 3. SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS
- SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
- 4. STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

# Know what's **below**. Call before you dig.



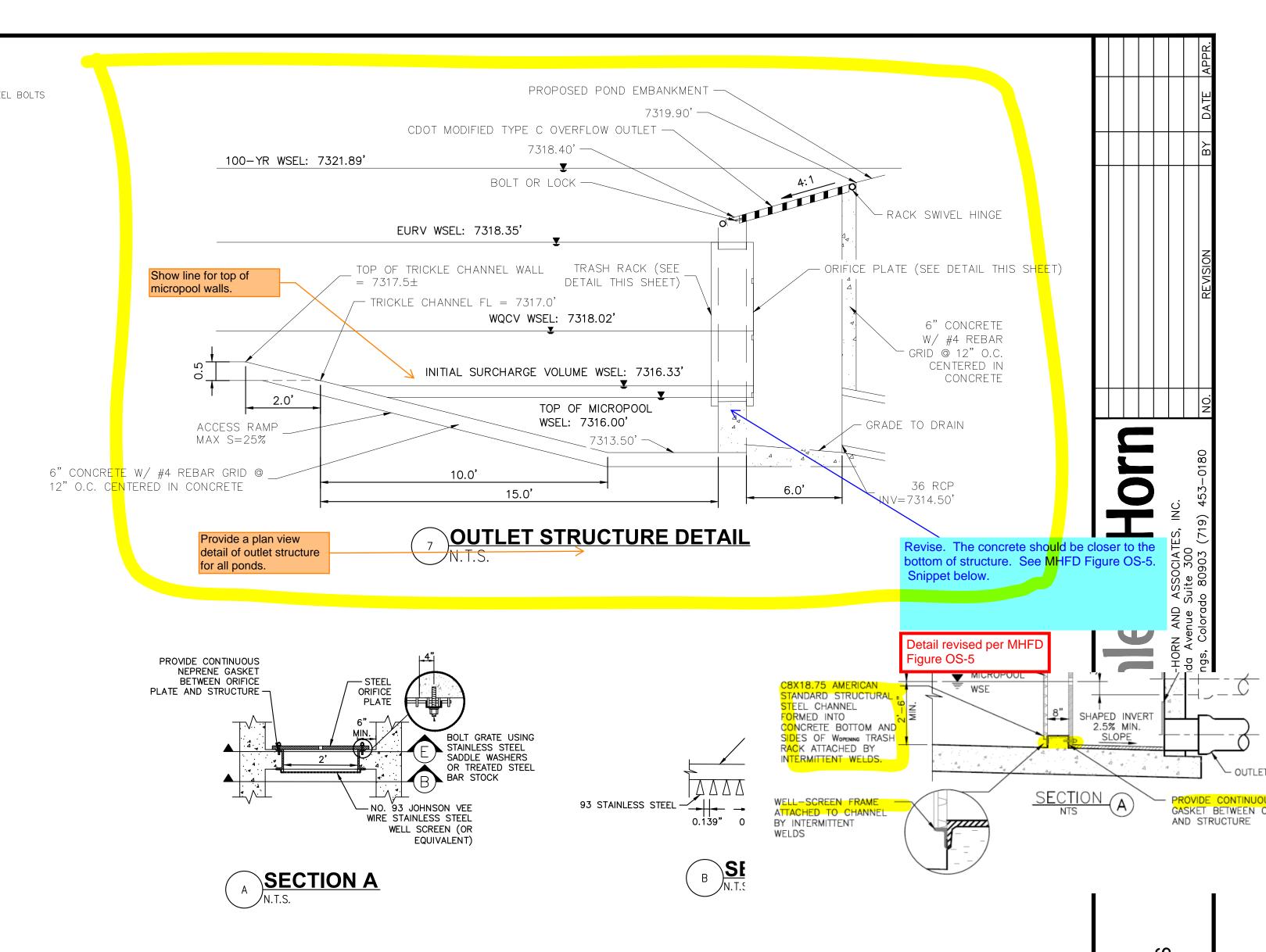
## RIPRAP NOTES:

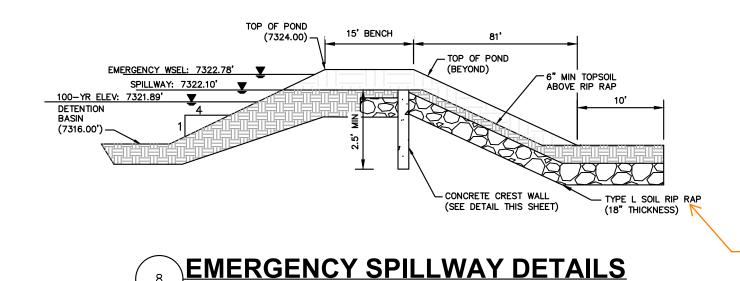
<sup>4</sup>based on a specific gravity = 2.5

COLORADO DEPARTMENT OF TRANSPORTATION SECTION 506 REQUIREMENTS APPLY TO ALL RIPRAP.

## Table 506-2

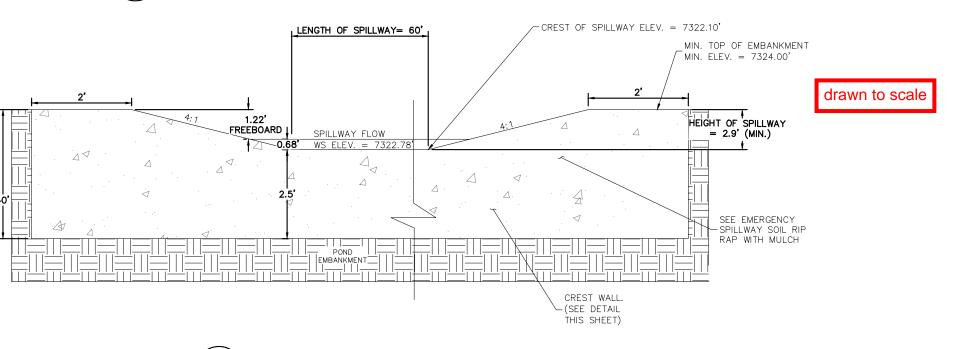
Pay Item		Percent of Material	Typical Stone	Typical Stone	
	Stone Size d50 <sup>1</sup> (Inches)	Smaller Than Typical Stone <sup>2</sup>	Dimensions <sup>3</sup> (Inches)	Weight <sup>4</sup> (Pounds)	
Riprap	6	70-100 50-70 35-50 2-10	12 9 6 2	85 35 10 0.4	
Riprap	9	70-100 50-70 35-50 2-10	15 12 9 3	160 85 35 1.3	
Riprap	12	70-100 50-70 35-50 2-10	21 18 12 4	440 275 85 3	
Riprap	18	100 50-70 35-50 2-10	30 24 18 6	1280 650 275 10	
Riprap	24	100 50-70 35-50 2-10	42 33 24 9	3500 1700 650 35	





UPDATD per mhfd 31-37- 00 table

Soil Riprap: Specify installation instructions and mix ratio for soil riprap. As an example, note: "Per MHFD Spec Section 31-37-00, the soil material shall be native or topsoil and mixed with 65% riprap and 35% soil by volume. And soil riprap shall consist of uniform mixture of soil and riprap without voids." And specify the riprap type per Table 1 of that speci



**EMERGENCY SPILLWAY** 

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STRUCT

WINS EL PASC CONSTE

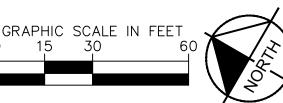
PROJECT NO. 196106001 SHEET

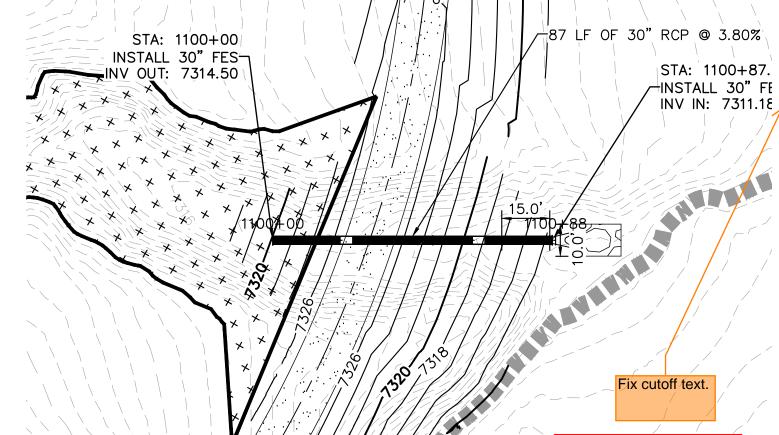
commend deleting if final design and construction of the permanent sedim asin is included with the early grading application so it avoid duplicates that nay not be consistent with each other.

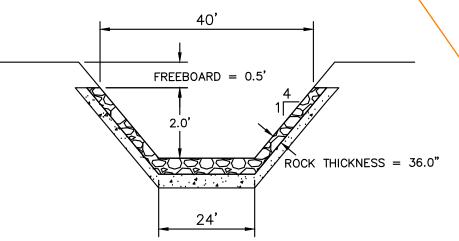
On the Grading plan add a note referencing the early grading construction plan

Provide detail for this spillway. And it should match specifications shown on pdf pg 357 of FDR.

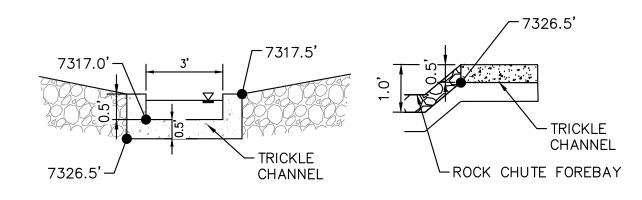
Sediment Basin H5B is now shown in the Early Grading



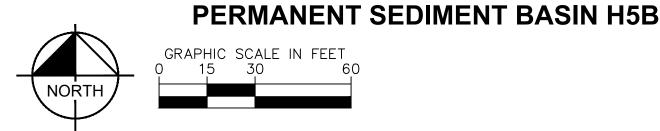




ROCK CHUTE #4 PROFILE- CROSS SECTION 2



ROCK CHUTE TO TRICKLE CHANNEL TRANSITION



If this is to be used as a forebay, see excerpt from MHFD Detail T-5 below for recommended configuration/design of forebay and revise design accordingly (as applicable):

> The forebay outlet should be sized to release 2% of the undetained peak 100-year discharge. A soil riprap berm with 3:1 sideslopes (or flatter) and a pipe outlet or a concrete wall with a notch outlet should be constructed between the forebay and the main EDB. It is recommended that the berm/pipe configuration be reserved for watersheds in excess of 20 impervious acres to accommodate the minimum recommended pipe diameter of 8 inches. When using the berm/pipe configuration, round up to the nearest standard pipe size and use a minimum diameter of 8 inches. The floor of the forebay should be concrete or lined with grouted boulders to define sediment removal limits. With either configuration, soil riprap should also be provided on the downstream side of the forebay berm or wall if the downstream grade is lower than the top of the berm or wall. The forebay will overtop frequently so this protection is necessary for erosion control. All soil riprap in the area of the forebay should be seeded and erosion control fabric should be placed to retain the seed in this high flow area.

Forebay should meter flows with a vertical wall and a notch to release 2% of 100yr flows.

This is a typical comment about all Rock Shutes into all ponds.

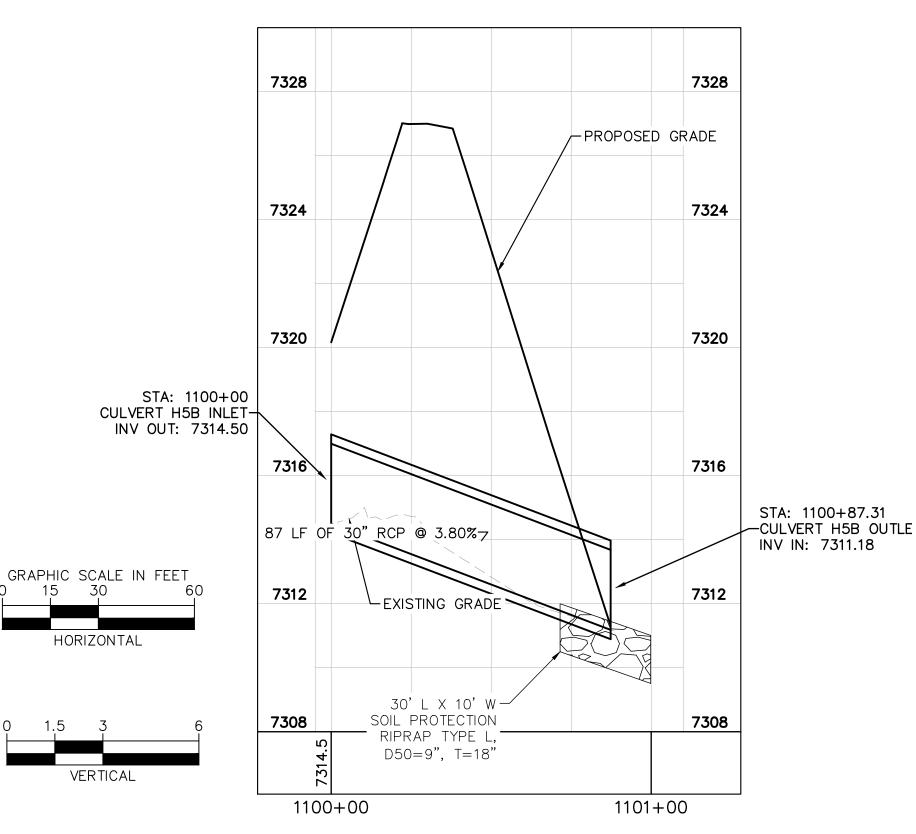
rock chutes with forebay applications were modified to have a distilling basin above ground with a rock berm and notch to be in compliance with all MHFD criteria.

MAX PONDING AREA

PROPOSED 2' EMERGENCY

SPILLWAY

## PERMANENT SEDIMENT BASIN H5B OUTLET PIPE PLAN AND PROFILE





Call before you dig.

updated to fix cutoff tex

CHECKED BY: KRK DATE: 12/16/202

DESIGNED BY: KR DRAWN BY: A

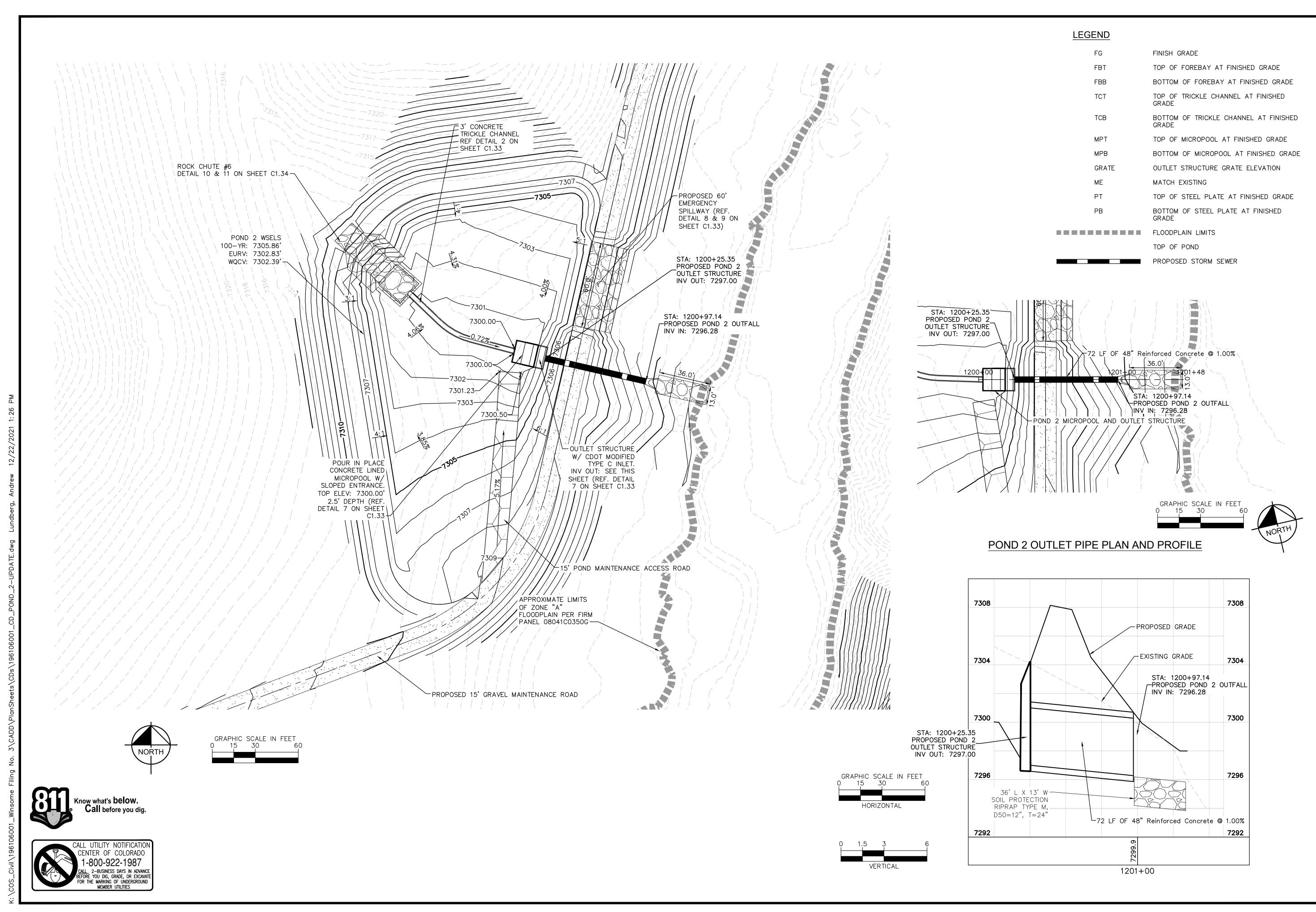
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& SEDIMENT BASIN H5B [

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Kimley» Horn Kimley-Horn and Associates, Inc

PROJECT NO. 196106001 SHEET



DESIGNED BY: KRK

DRAWN BY: AJ CHECKED BY: KRK DATE: 12/16/202

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CONSTRUCTION DOCUMENTS
POND 2 OVERVIEW

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> PROJECT NO. 196106001 SHEET

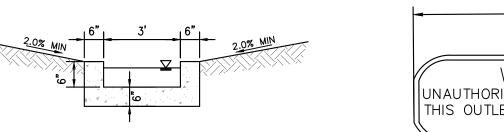
Kimley-Horn and Associates, Inc

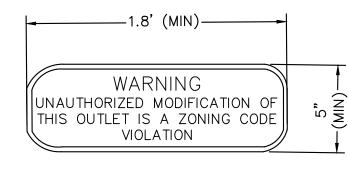
# MAINTENANCE ROAD

CONCRETE

TRICKLE CHANNEL

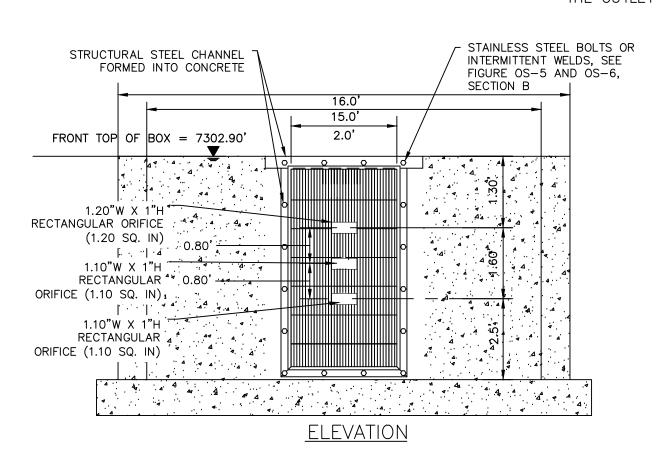
MAINTENANCE PATH NOTES MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.





## **OUTLET SIGNAGE**

<u>OUTLET SIGNAGE NOTES</u> 1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.



# ORIFICE PLATE AND TRASH RACK DETAIL

## ORIFICE PLATE NOTES

1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE. 2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

## EURV AND WQCV TRASH RACKS

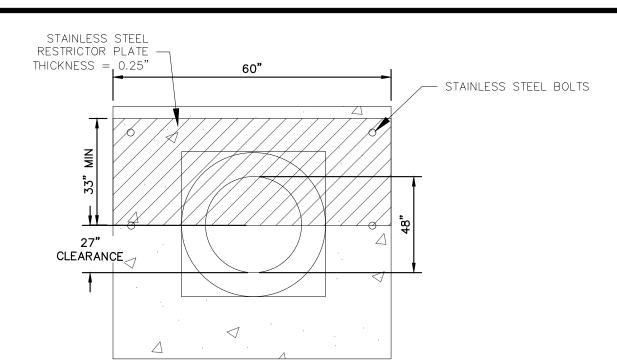
- 1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY
- INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME. 2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL
- 3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO
- 4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

## OVERFLOW SAFETY GRATES

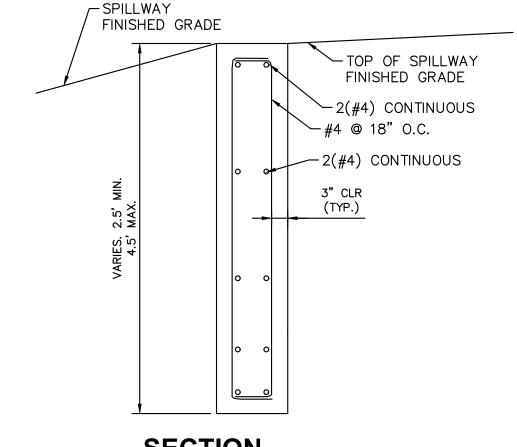
- 1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
- 2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
- 3. SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
- 4. STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.







# 100-YEAR FLOW RESTRICTOR B





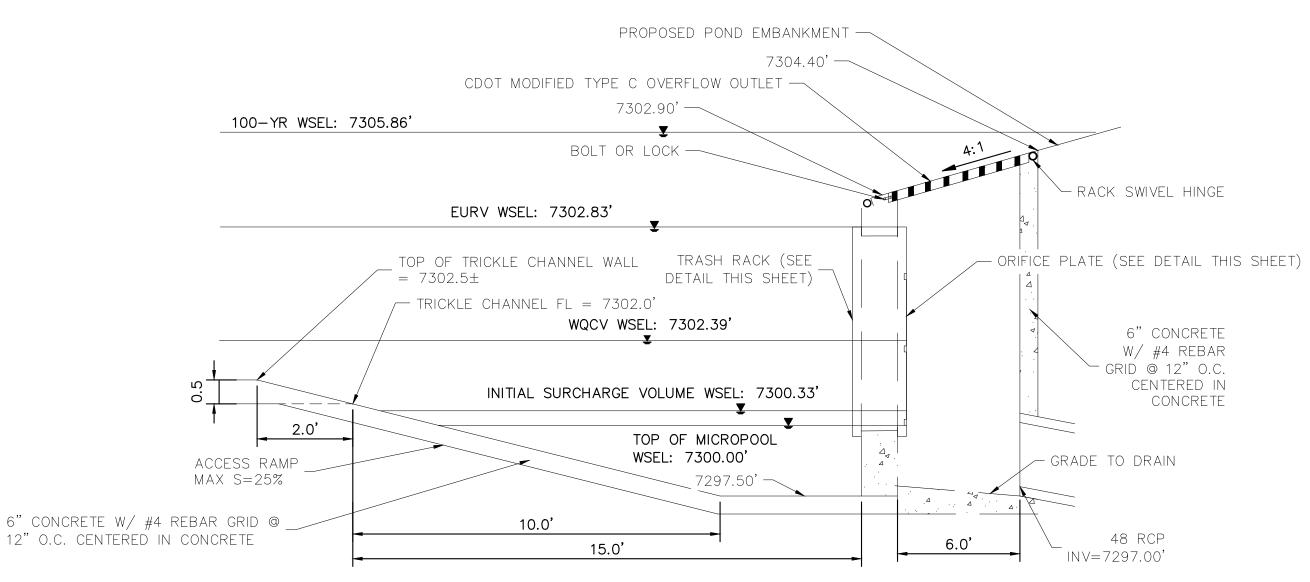
## RIPRAP NOTES:

<sup>4</sup>based on a specific gravity = 2.5

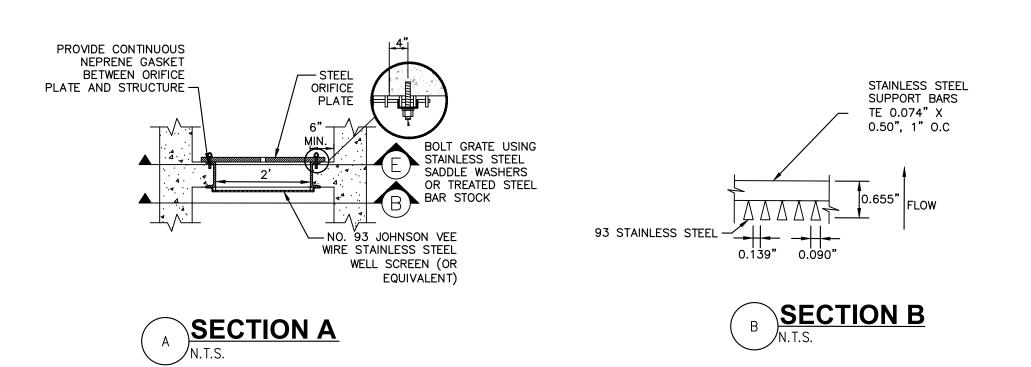
COLORADO DEPARTMENT OF TRANSPORTATION SECTION 506 REQUIREMENTS APPLY TO ALL RIPRAP.

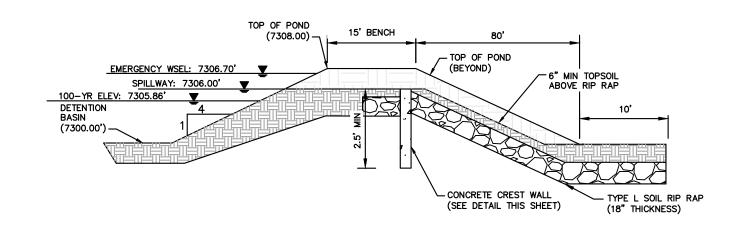
## Table 506-2

Pay	Item	Percent of			
	Stone Size d50 <sup>1</sup> (Inches)	Material Smaller Than Typical Stone <sup>2</sup>	Typical Stone Dimensions <sup>3</sup> (Inches)	Typical Stone Weight <sup>4</sup> (Pounds)	
Riprap	6	70-100 50-70 35-50 2-10	12 9 6 2	85 35 10 0.4	
Riprap	9	70-100 50-70 35-50 2-10	15 12 9 3	160 85 35 1.3	
Riprap	12	70-100 50-70 35-50 2-10	21 18 12 4	440 275 85 3	
Riprap	18	100 50-70 35-50 2-10	30 24 18 6	1280 650 275 10	
Riprap	24	100 50-70 35-50 2-10	42 33 24 9	3500 1700 650 35	

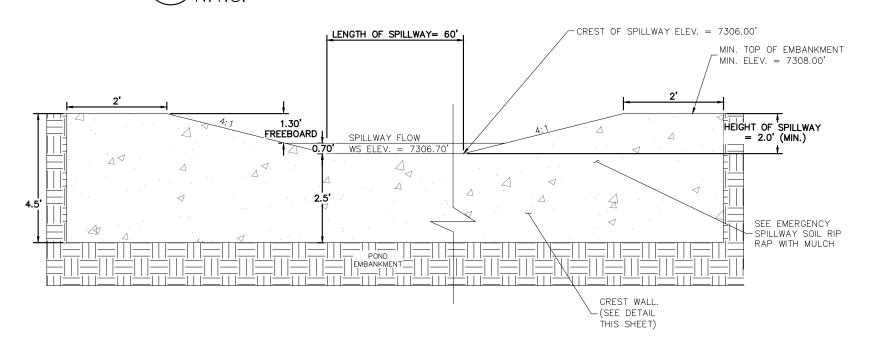


**OUTLET STRUCTURE DETAIL** 





# **EMERGENCY SPILLWAY DETAILS**



EMERGENCY SPILLWAY

drawn to scale

DESIGNED BY: KRH CHECKED BY: KRK

DRAWN BY: AJ DATE: 12/16/202

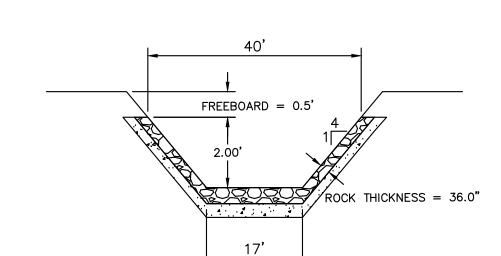
ZΩ EL PASO SONSTRUCT

PRELIMINARY FOR REVIEW ONL' NOT FOR CONSTRUCTION Kimley » Horn

> PROJECT NO. 196106001

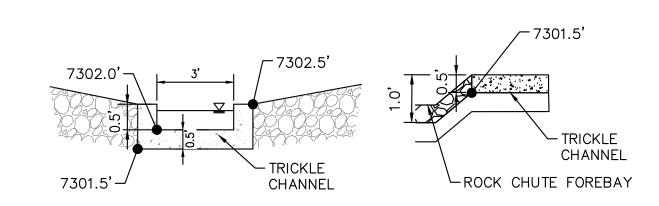
> > SHEET

Kimley-Horn and Associates, Inc



# ROCK CHUTE #6 PROFILE- CROSS SECTION 2 N.T.S.

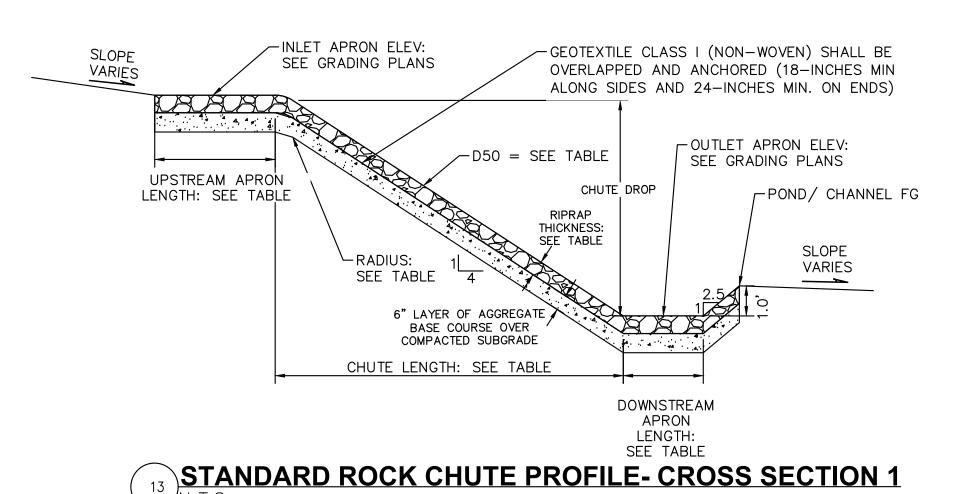
ROCK CHUTE #6 PROFILE- CROSS SECTION 1



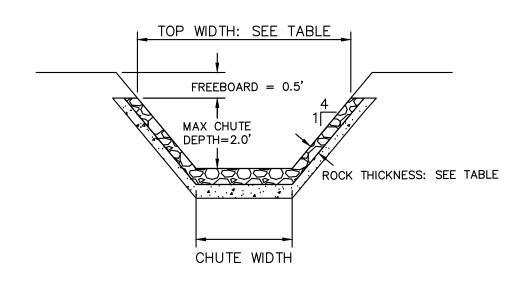
# ROCK CHUTE TO TRICKLE CHANNEL TRANSITION







/N.I.S. 1. SEE GRADING PLANS FOR ROCK CHUTE LOCATIONS



# STANDARD ROCK CHUTE PROFILE- CROSS SECTION 2

1. SEE GRADING PLANS FOR ROCK CHUTE LOCATIONS

			Upstream	Drop (ft) (Inlet Apron		Downstream					Min Rock		
	Channel		Inlet Apron	to Outlet		Outlet Apron			Rock Chute		Chute Depth	Rock Chute	Top Chute
Rock Chute ID	Location	Flow (cfs)	Length (ft)	Apron)	(ft)	Length (ft)	Chute Width (ft)	D50 (in)	Thickness (in)	Radius (ft)	(ft)	Depth (ft)	Width (ft)
1	H1	45	10	7	28	14	12	12	24	33	1.09	2.00	28
2	H1	45	10	5	20	14	12	12	24	33	1.09	2.00	28
3	H4	17	10	13	52	8	12	9	18	25	0.58	2.00	28
4	Pond 1	107	10	6	24	15	24	18	36	50	1.27	2.00	40
5	H5B	29	10	8	32	18	4	18	36	50	1.54	2.00	20
6	Pond 2	110	10	8	32	18	17	18	36	50	1.57	2.00	33
7	H3	58	10	6	24	15	12	18	36	50	1.27	2.00	28
8	H3	58	10	6	24	15	12	18	36	50	1.27	2.00	28
9	H3	58	10	6	24	15	12	18	36	50	1.27	2.00	28
10	H3	58	10	6	24	15	12	18	36	50	1.27	2.00	28
11	Pond 4	26	10	10	40	11	10	9	18	25	0.85	2.00	26
12	WQ Pond	100	11	5	20	20	12	18	36	50	1.81	2.00	28
13	WQ Pond	57	10	3	12	16	10	18	36	50	1.38	2.00	26

STANDARD ROCK CHUTE DIMENSION TABLE

1. SEE GRADING PLANS FOR ROCK CHUTE LOCATIONS

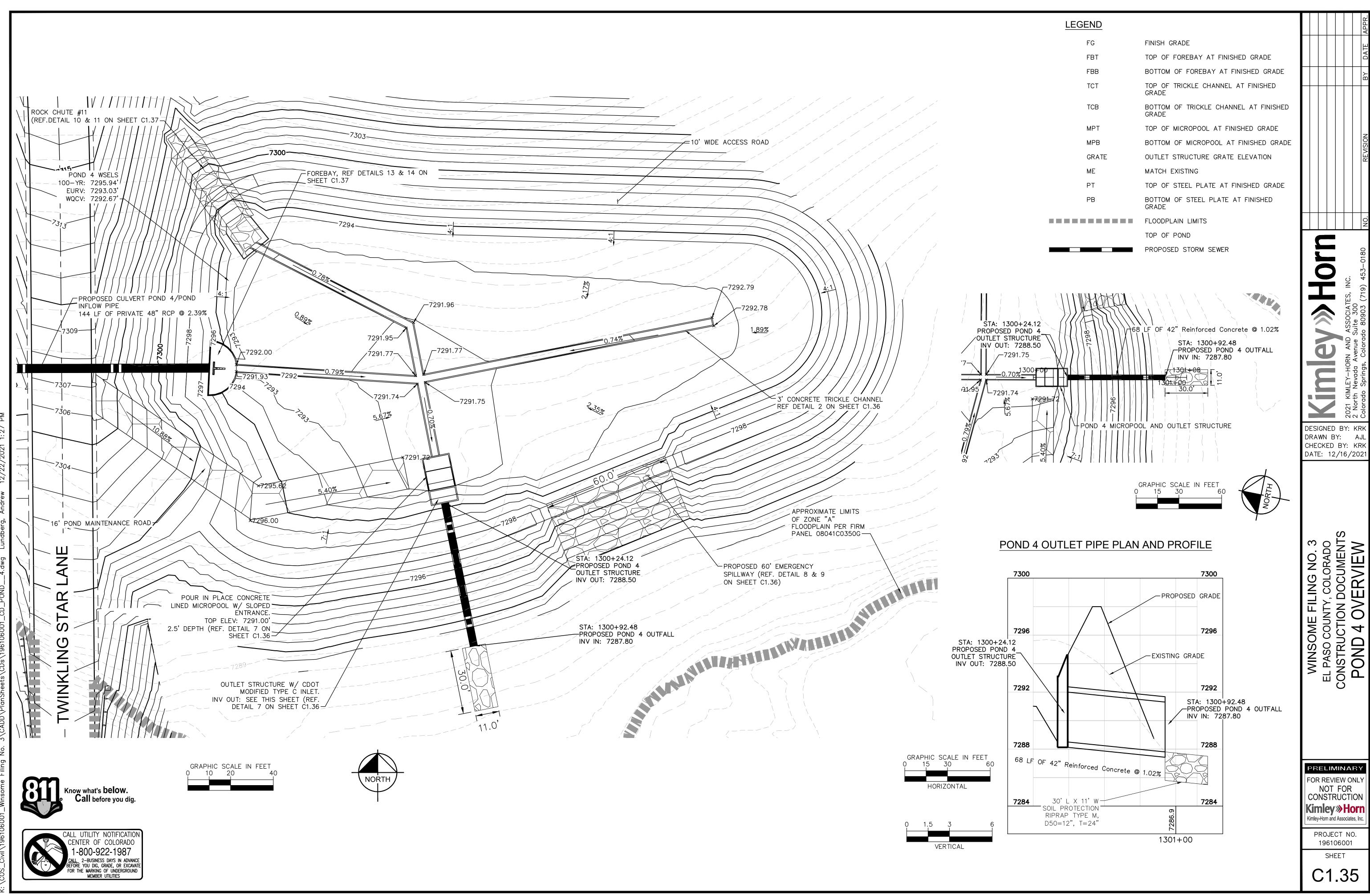
2021 KIMLEY-HORN AND ASSOCIA-2 North Nevada Avenue Suite 300 Colorado Springs, Colorado 80903

DESIGNED BY: KRK DRAWN BY: AJL CHECKED BY: KRK DATE: 12/16/2021

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
ONSTRUCTION DOCUMENTS

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CONSTRUCTION
Kimley Horn
Kimley-Horn and Associates, Inc.

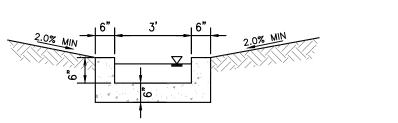
PROJECT NO. 196106001 SHEET



Kimley-Horn and Associates, Inc PROJECT NO. 196106001

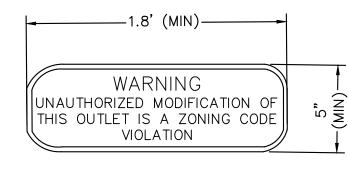
# MAINTENANCE ROAD

MAINTENANCE PATH NOTES MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.



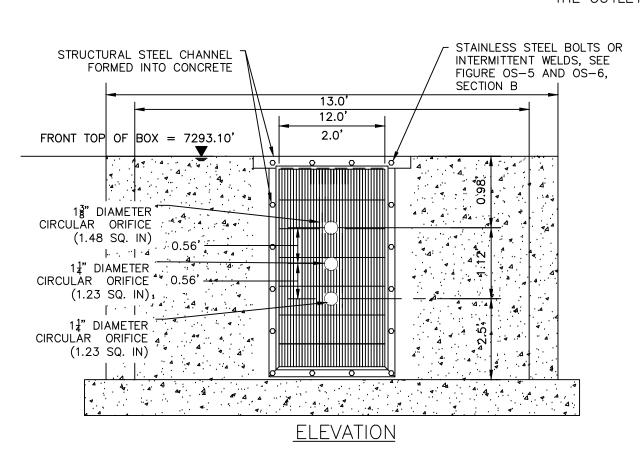
TRICKLE CHANNEL

CONCRETE



## **OUTLET SIGNAGE**

<u>OUTLET SIGNAGE NOTES</u> 1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.



# - TOP OF SPILLWAY FINISHED GRADE -2(#4) CONTINUOUS -#4 @ 18" O.C. -2(#4) CONTINUOUS (TYP.) SECTION CREST WALL DETAIL

<u>100-YEAR FLOW RESTRICTOR B</u>

-SPILLWAY

FINISHED GRADE

## **ORIFICE PLATE AND TRASH RACK DETAIL**

## ORIFICE PLATE NOTES

1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE. 2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

## EURV AND WQCV TRASH RACKS

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- INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME. 2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL
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## OVERFLOW SAFETY GRATES

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## RIPRAP NOTES:

<sup>4</sup>based on a specific gravity = 2.5

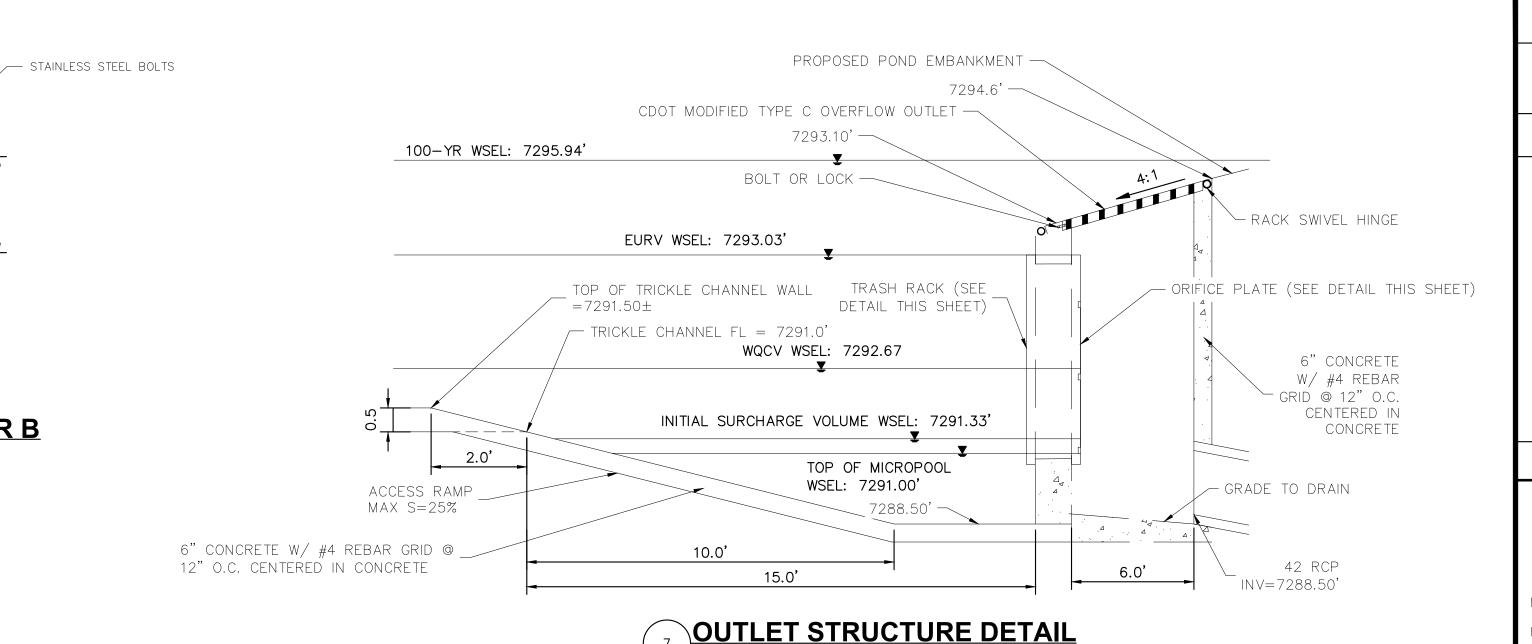
STAINLESS STEEL RESTRICTOR PLATE -THICKNESS = 0.25"

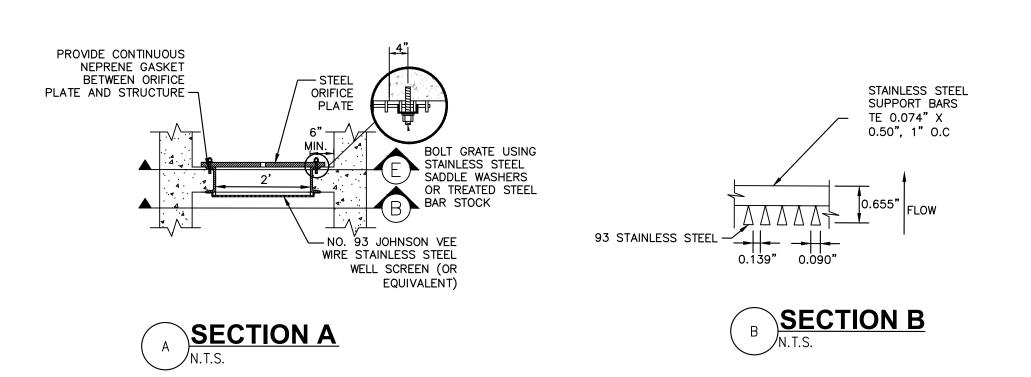
CLEARANCE

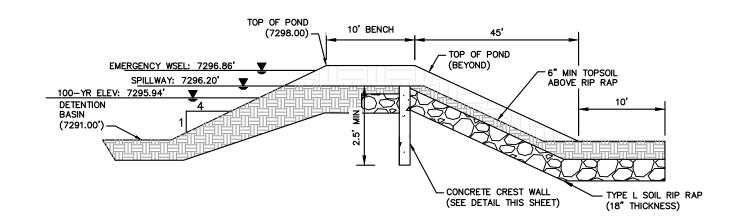
COLORADO DEPARTMENT OF TRANSPORTATION SECTION 506 REQUIREMENTS APPLY TO ALL RIPRAP.

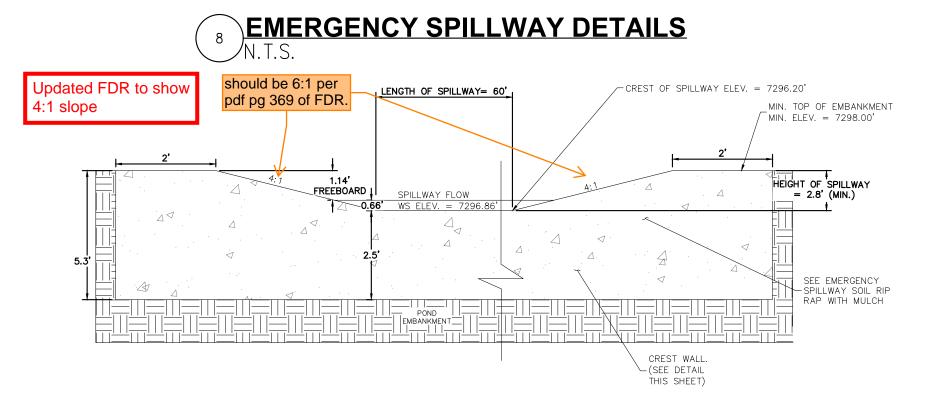
## Table 506-2

Pay Item  Stone Size d50¹ (Inches)		Percent of Material Smaller Than Typical Stone <sup>2</sup>	Typical Stone Dimensions <sup>3</sup> (Inches)	Typical Stone Weight <sup>4</sup> (Pounds)	
Riprap	6	70-100 50-70 35-50 2-10	12 9 6 2	85 35 10 0.4	
Riprap	9	70-100 50-70 35-50 2-10	15 12 9 3	160 85 35 1.3	
Riprap	12	70-100 50-70 35-50 2-10	21 18 12 4	440 275 85 3	
Riprap	18	100 50-70 35-50 2-10	30 24 18 6	1280 650 275 10	
Riprap	24	100 50-70 35-50 2-10	42 33 24 9	3500 1700 650 35	









**EMERGENCY SPILLWAY** 

NOT FOR Kimley » Horn Kimley-Horn and Associates, Inc

PROJECT NO. 196106001 SHEET

PRELIMINARY FOR REVIEW ONL' CONSTRUCTION

DESIGNED BY: KRH

DRAWN BY: AJ

CHECKED BY: KRK

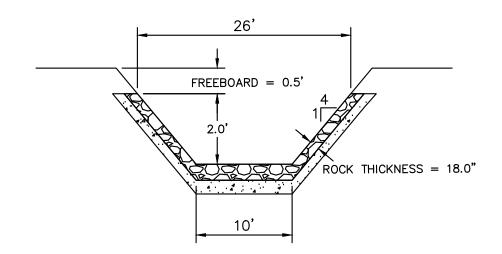
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COLORADO
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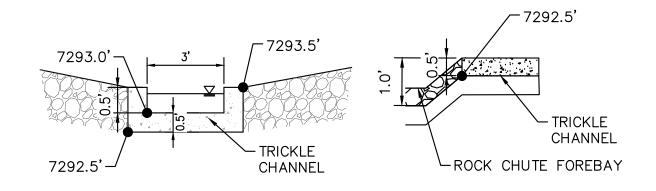
EL PASO SONSTRUCT

DATE: 12/16/202

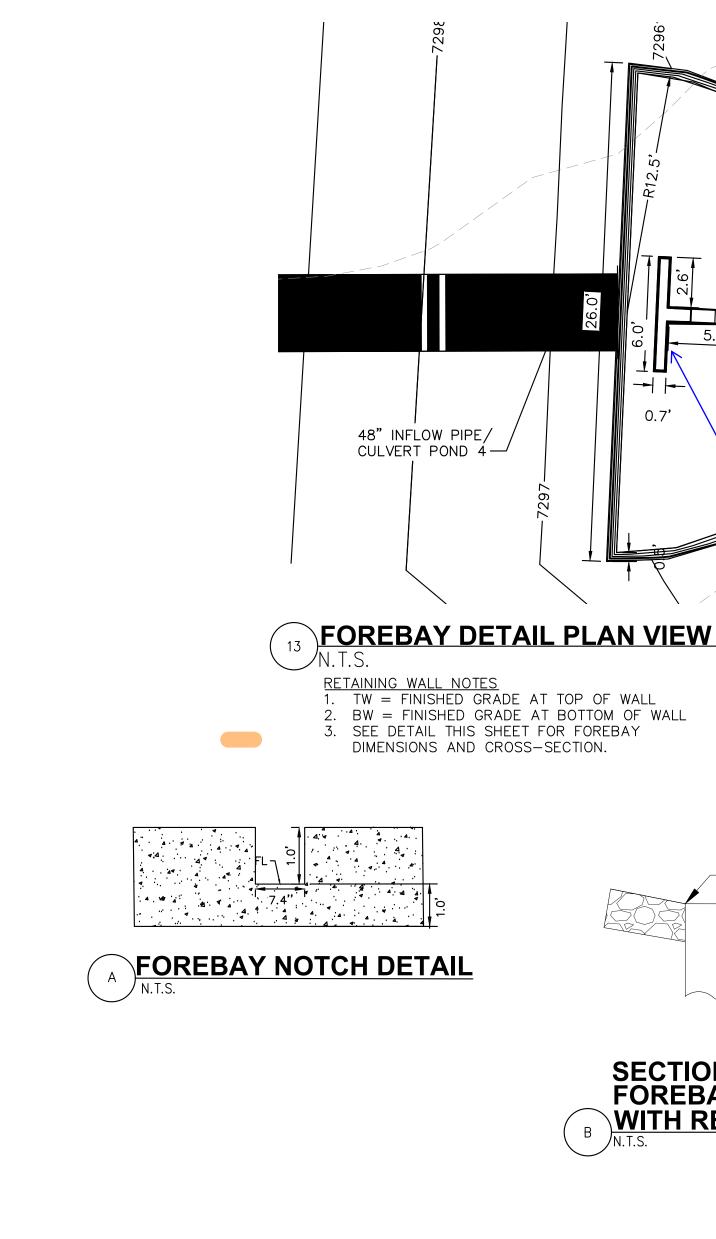
# ROCK CHUTE #11 PROFILE- CROSS SECTION 1



# ROCK CHUTE #11 PROFILE- CROSS SECTION 2



## ROCK CHUTE TO TRICKLE CHANNEL TRANSITION





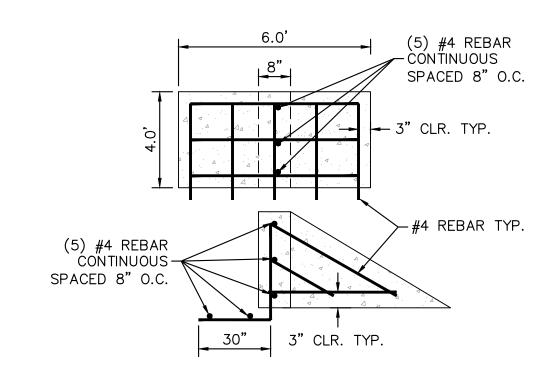
Update and provide

dditional details.

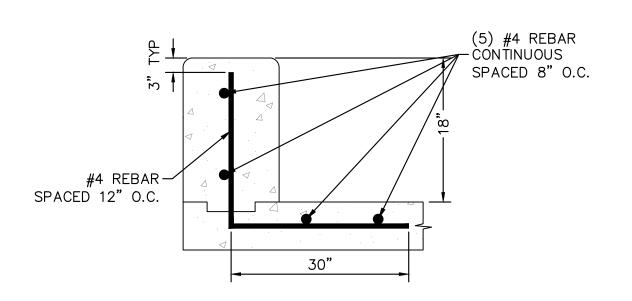
See MHFD DCM Vol 2 chapter 9 for design parameters. See snippet to the left

PROVIDED section view

updated with riprap



C FOREBAY DISSIPATER DETAIL



FOREBAY WALL CROSS SECTION
N.T.S.

Provide sufficient soil riprap

of forebay per excerpt from

MHFD Detail T-5 below:

**∽**7291.93

TRICKLE CHANNEL-

around downstream perimeter

should be concrete or lined with grouted boulders to define sediment removal limits. With either configuration, soil riprap should also be provided on the downstream side of the forebay berm or wall

frequently so this protection is necessary for erosion control. All soil riprap in the area of the forebay should be seeded and erosion control fabric should be placed to retain the seed in this high flow area.

if the downstream grade is lower than the top of the berm or wall. The forebay will overtop

7292

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
POND 4 DETAILS

DESIGNED BY: KRK DRAWN BY: AJL CHECKED BY: KRK DATE: 12/16/202

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CONSTRUCTION

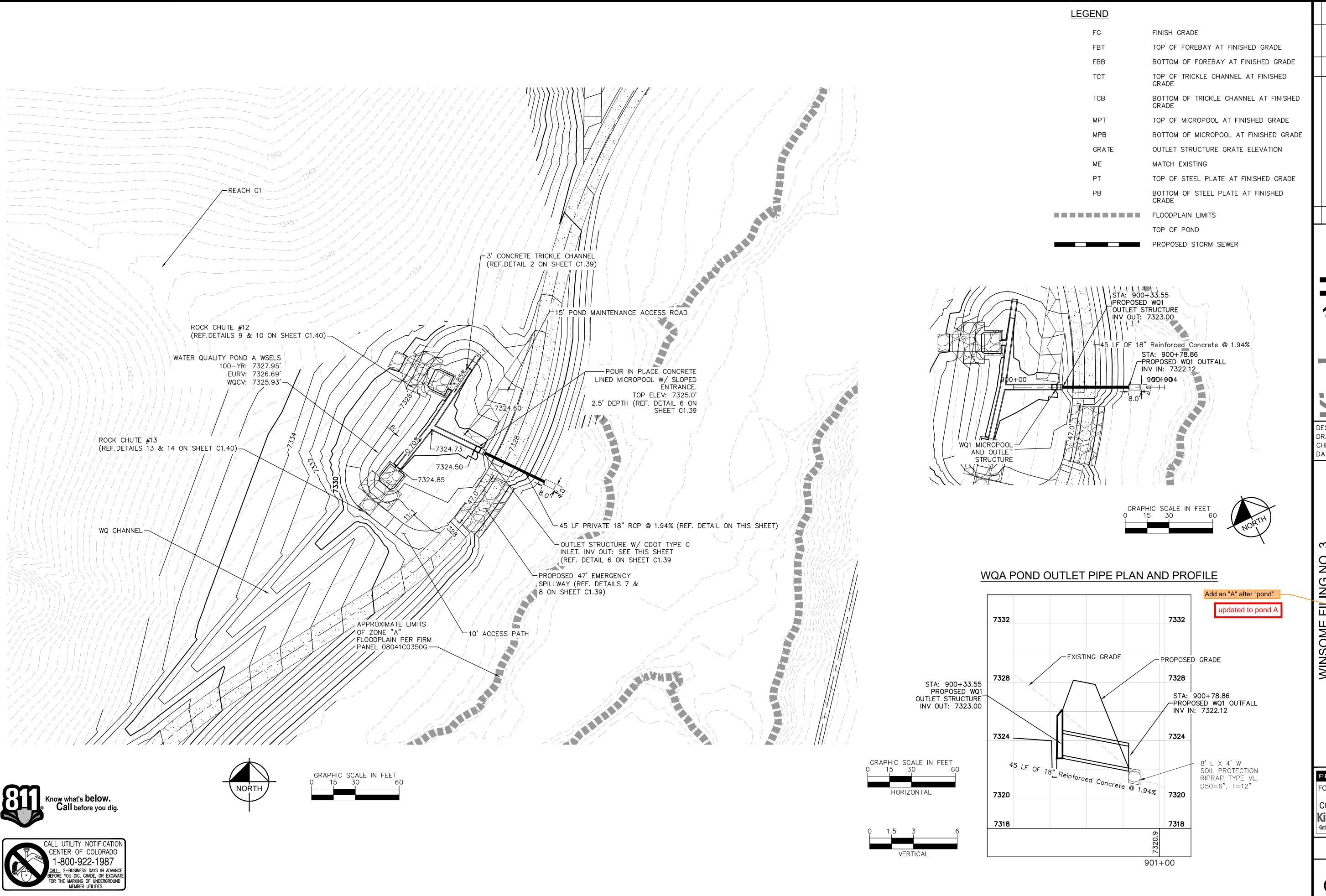
Kimley» Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.

196106001 SHEET







DESIGNED BY: KR

DRAWN BY: AJ

CHECKED BY: KRK DATE: 12/16/202

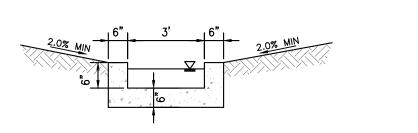
WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
WQ POND OVERVIEW

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> PROJECT NO. 196106001 SHEET

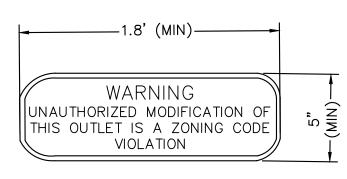
# MAINTENANCE ROAD

MAINTENANCE PATH NOTES MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.



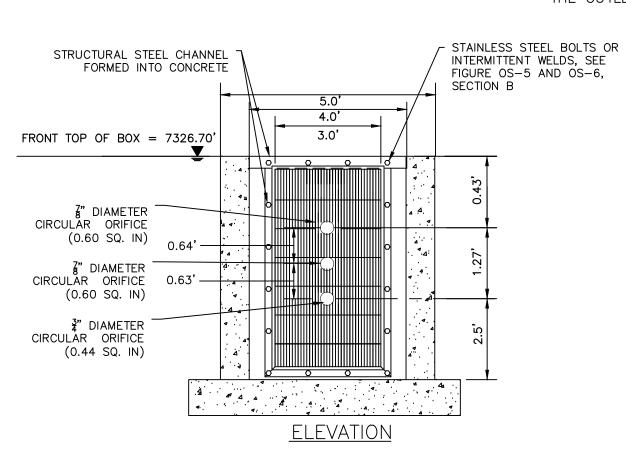
TRICKLE CHANNEL

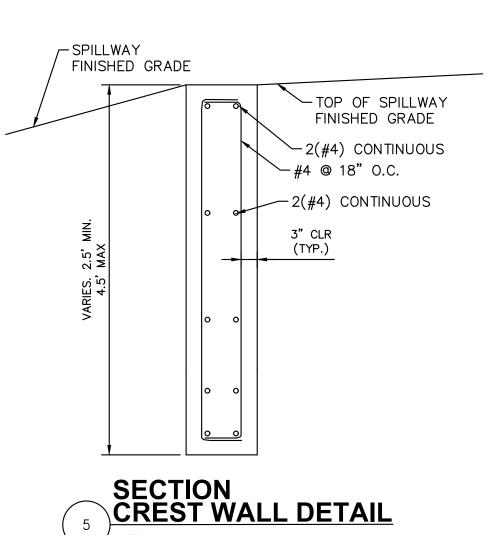
CONCRETE

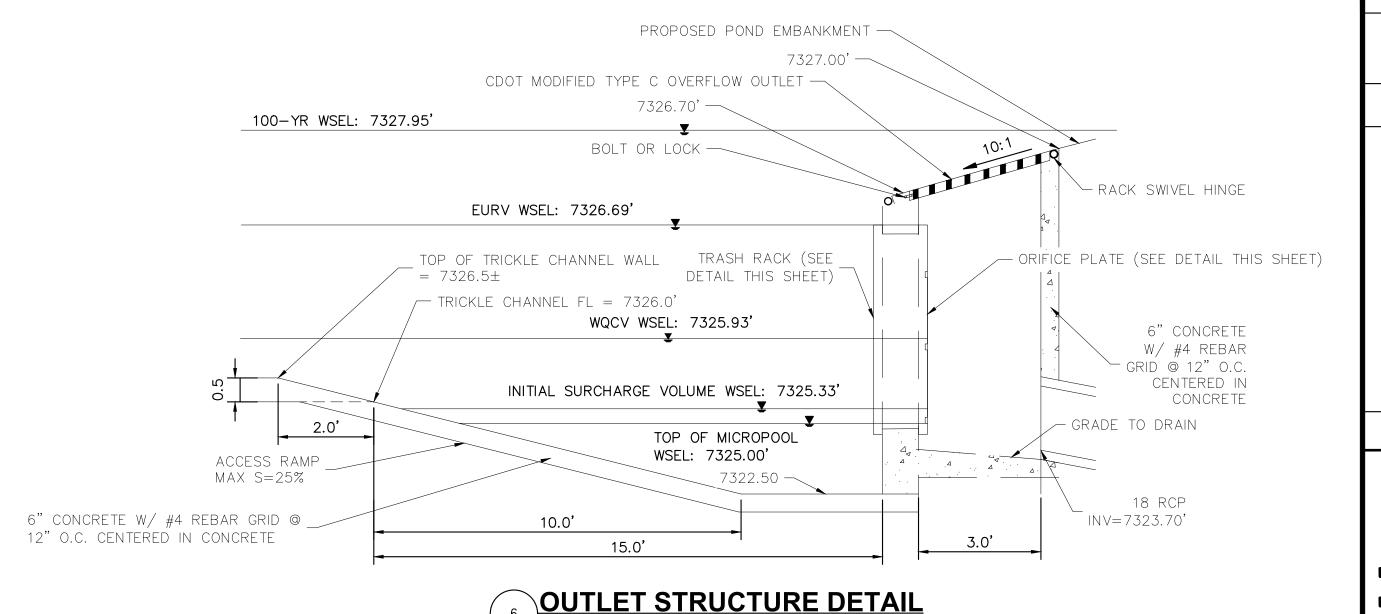


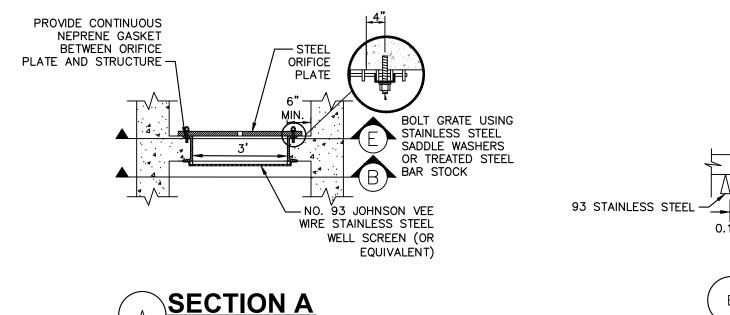
## **OUTLET SIGNAGE**

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# STAINLESS STEEL SUPPORT BARS TE 0.074" X 0.50", 1" O.C **SECTION B**

## **ORIFICE PLATE AND TRASH RACK DETAIL**

## ORIFICE PLATE NOTES

1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE. 2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

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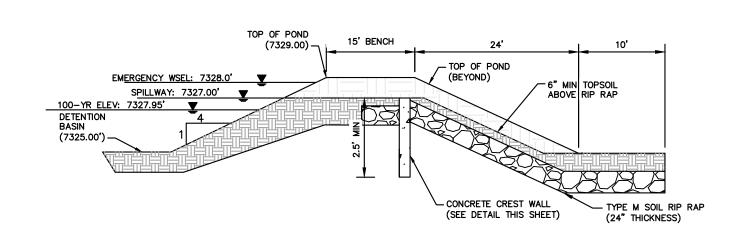
## RIPRAP NOTES:

<sup>4</sup>based on a specific gravity = 2.5

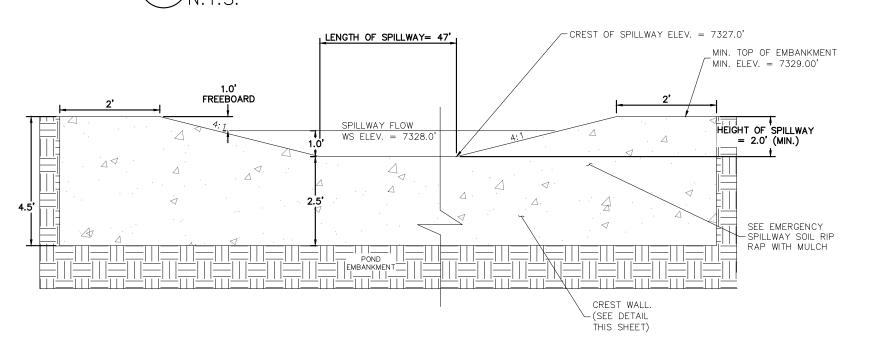
COLORADO DEPARTMENT OF TRANSPORTATION SECTION 506 REQUIREMENTS APPLY TO ALL RIPRAP.

## Table 506-2

Pay	Stone Size d50 <sup>1</sup> (Inches)	Percent of Material Smaller Than Typical Stone <sup>2</sup>	Typical Stone Dimensions <sup>3</sup> (Inches)	Typical Stone Weight <sup>4</sup> (Pounds)	
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Riprap	12	70-100 50-70 35-50 2-10	21 18 12 4	440 275 85 3	
Riprap	18	100 50-70 35-50 2-10	30 24 18 6	1280 650 275 10	
Riprap	24	100 50-70 35-50 2-10	42 33 24 9	3500 1700 650 35	







EMERGENCY SPILLWAY

PROJECT NO. 196106001 SHEET

PRELIMINARY FOR REVIEW ONL' NOT FOR

CONSTRUCTION

Kimley » Horn Kimley-Horn and Associates, Inc

C1.39

DESIGNED BY: KRH

DRAWN BY: AJ CHECKED BY: KRK

DATE: 12/16/202

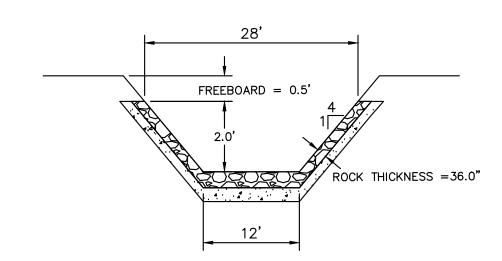
0 3

 $\Box$ 

WINSOME FILE PASO COUNTY, ONSTRUCTION I

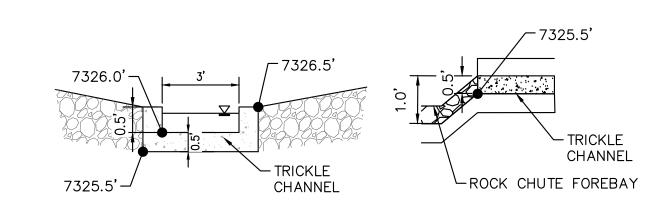
# INLET APRON ELEV: 7328.0' GEOTEXTILE CLASS I (NON-WOVEN) SHALL BE OVERLAPPED AND ANCHORED (18-INCHES MIN ALONG SIDES AND 24-INCHES MIN. ON ENDS) 10' MIN D50 = 18.0" OUTLET APRON ELEV: 7325.0' POND FG: 7326.0' POND FG: 7326.0' THICKNESS 36.0" 12.0' 16' MIN

ROCK CHUTE #13 PROFILE- CROSS SECTION 1

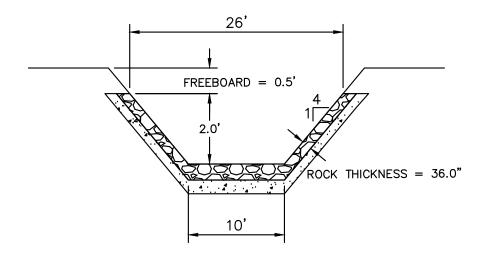


ROCK CHUTE #12 PROFILE- CROSS SECTION 1

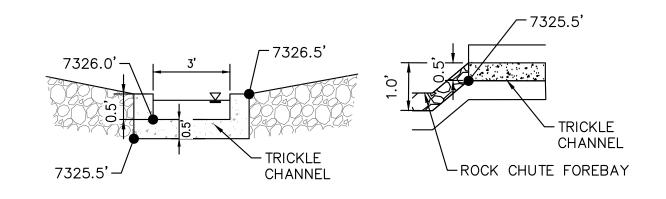
ROCK CHUTE #12 PROFILE- CROSS SECTION 2
N.T.S.



ROCK CHUTE #12 TO TRICKLE CHANNEL TRANSITION



ROCK CHUTE #13 PROFILE- CROSS SECTION 2
N.T.S.



ROCK CHUTE #13 TO TRICKLE CHANNEL TRANSITION





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CONSTRUCTION
Kimley Horn
Kimley-Horn and Associates, Inc.

DESIGNED BY: KRK DRAWN BY: AJL

CHECKED BY: KRK

DATE: 12/16/202

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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
WQ POND DETAILS

PROJECT NO. 196106001 SHEET