









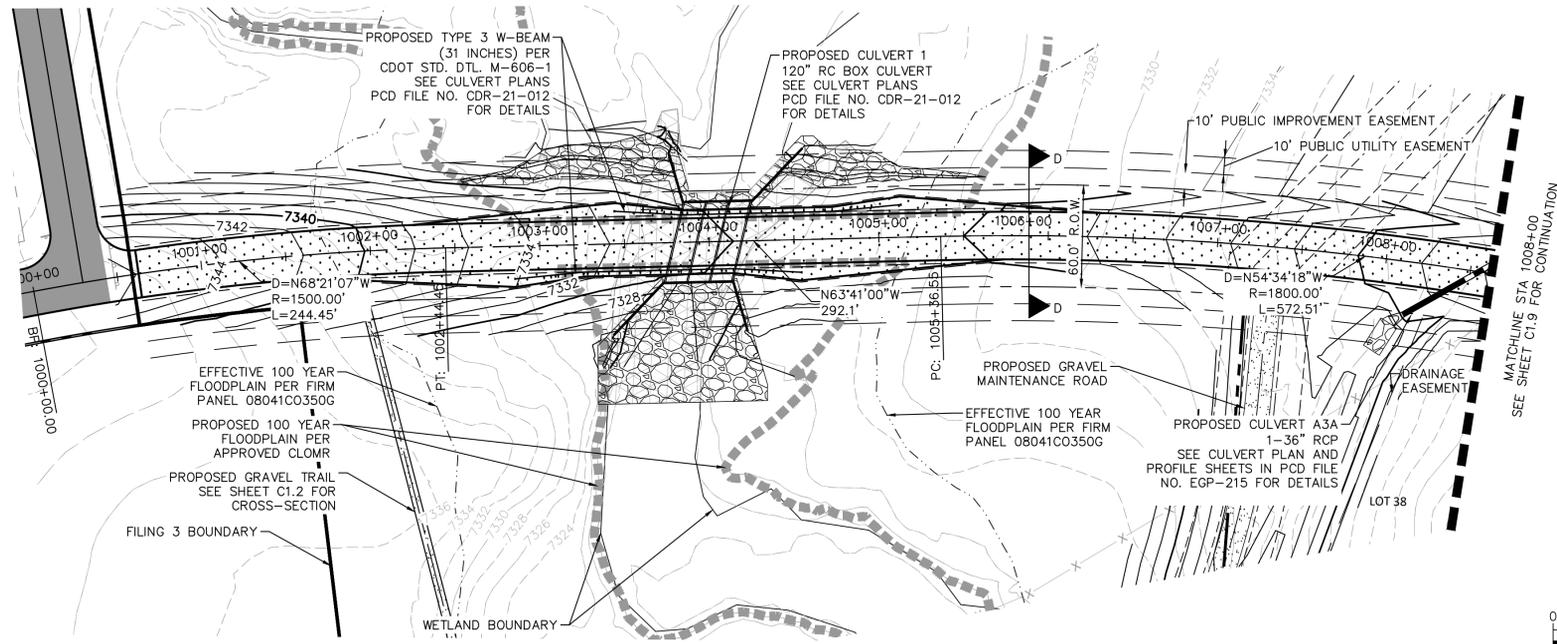






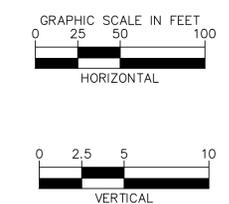
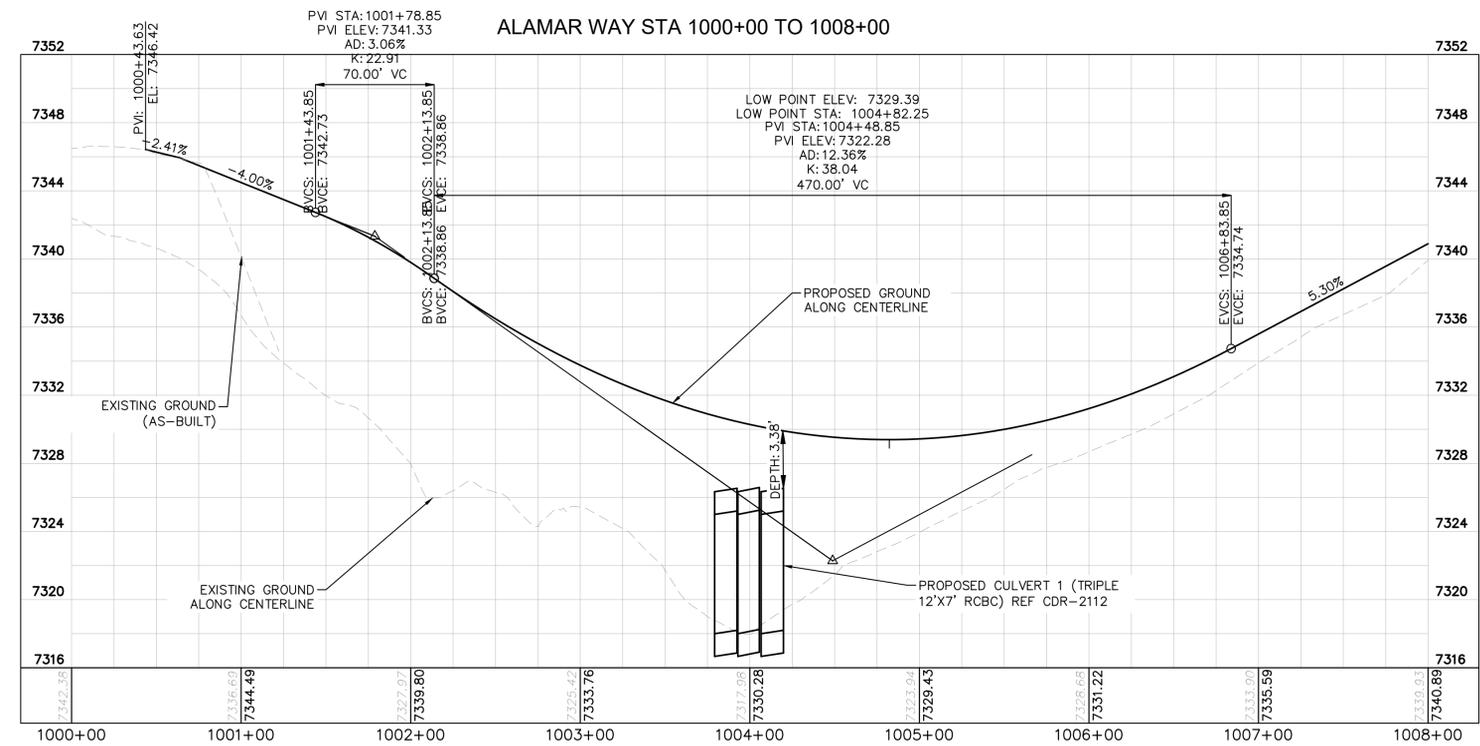
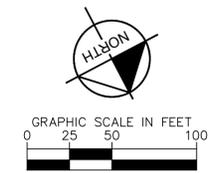


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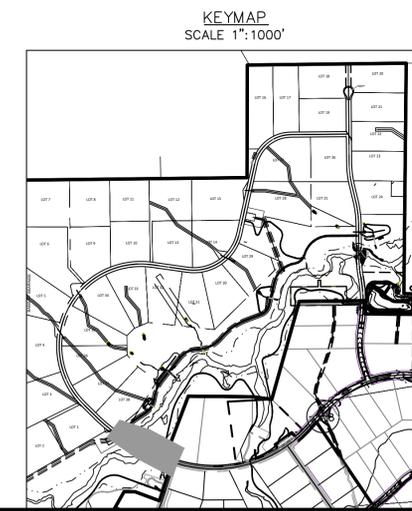


**LEGEND**

---	LOT BOUNDARY LINE
XXXX	EXISTING MAJOR CONTOUR
XXXX	EXISTING MINOR CONTOUR
XXXX	PROPOSED MAJOR CONTOUR
XXXX	PROPOSED MINOR CONTOUR
X X	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
---	PROPOSED STORM LINE
---	UTILITY EASEMENT
---	R.O.W. LINE
---	EDGE OF PAVEMENT



- NOTES**
- SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



NO.	REVISION	BY	DATE	APPR.

**Kimley»Horn**  
 2021 KIMLEY-HORN AND ASSOCIATES, INC.  
 2 North Nevada Avenue Suite 300  
 Colorado Springs, Colorado 80903 (719) 453-0180

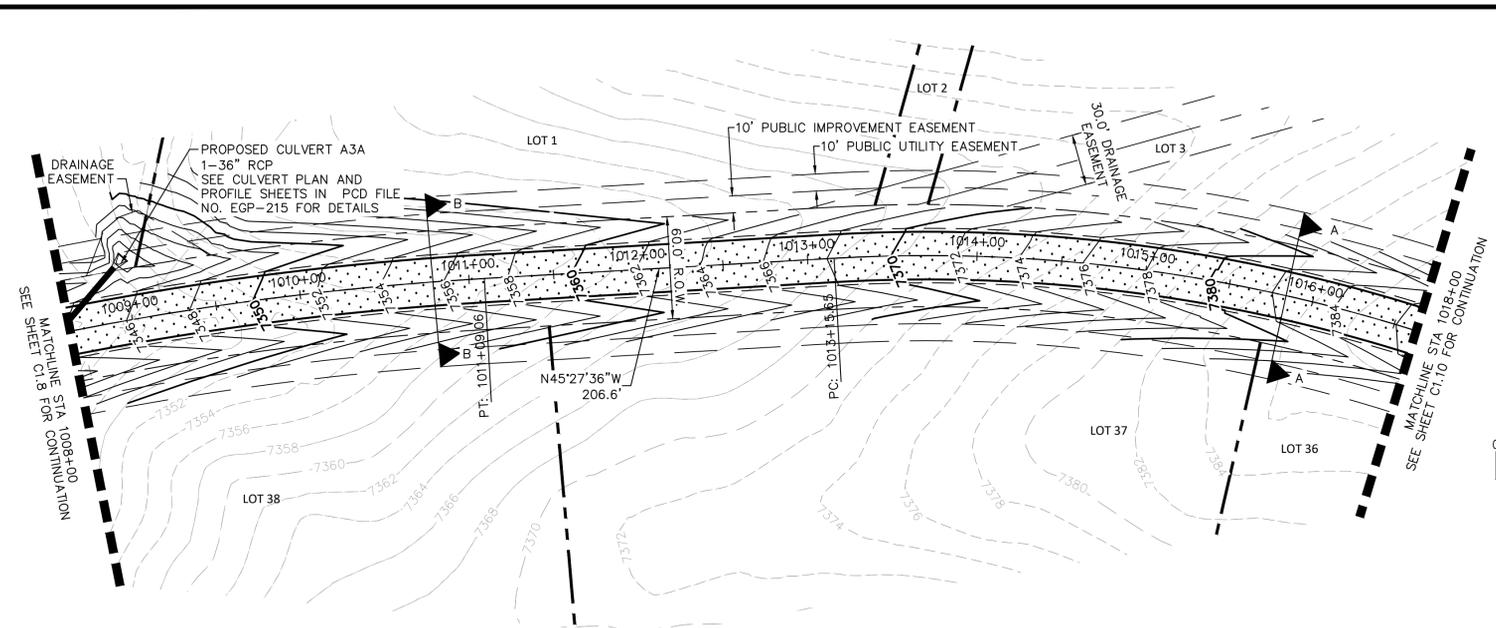
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 DRAWN BY: AJL  
 CHECKED BY: KRK  
 DATE: 12/16/2021

WINSOME FILING NO. 3  
 EL PASO COUNTY, COLORADO  
 CONSTRUCTION DOCUMENTS  
**ALAMAR PLAN AND PROFILE**

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PROJECT NO.  
 196106001  
 SHEET  
**C1.8**

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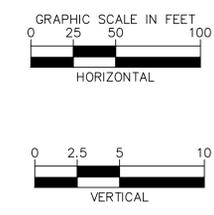
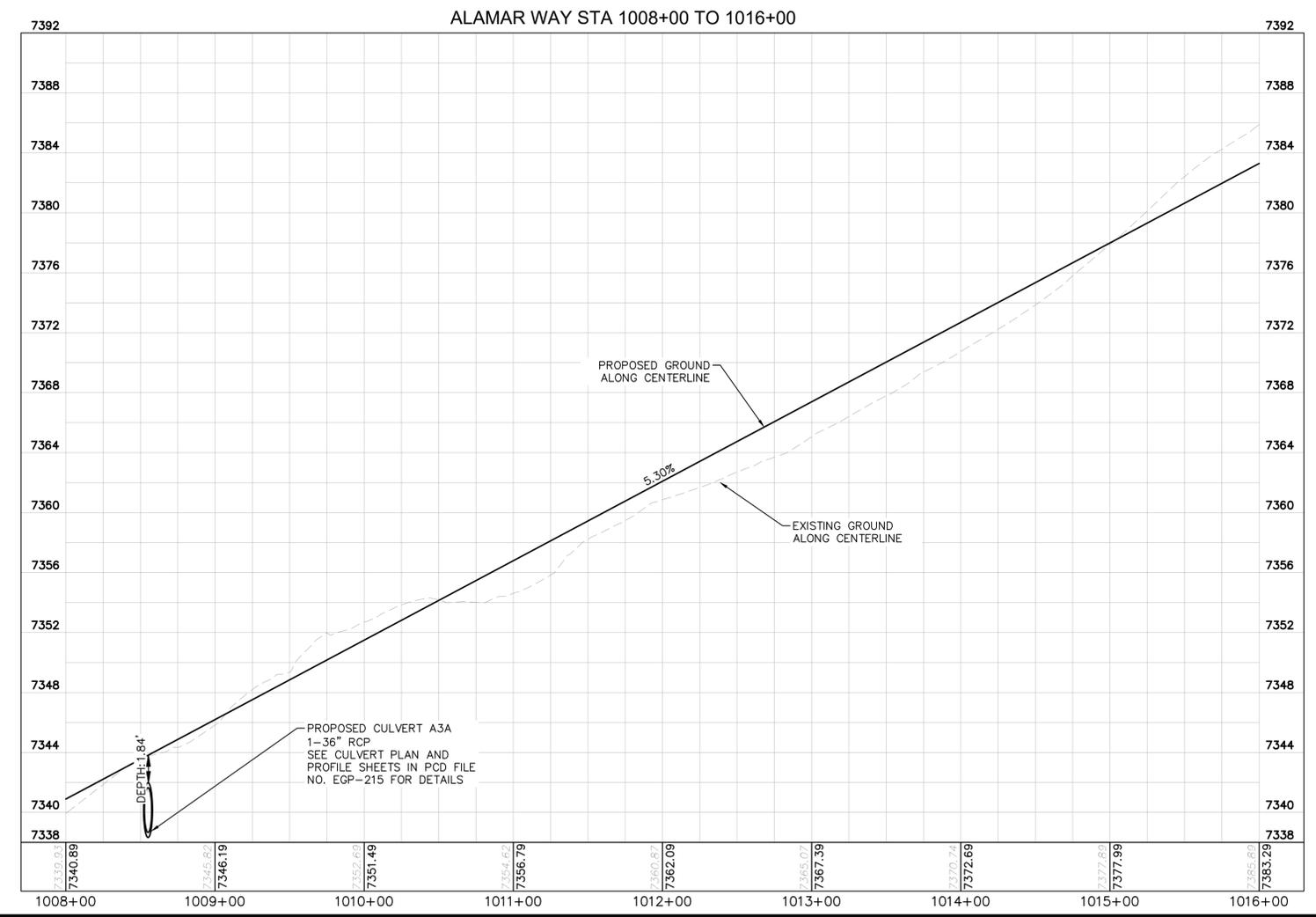


**LEGEND**

---	LOT BOUNDARY LINE
XXXX	EXISTING MAJOR CONTOUR
----	EXISTING MINOR CONTOUR
XXXX	PROPOSED MAJOR CONTOUR
XXXX	PROPOSED MINOR CONTOUR
X X X X	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
---	PROPOSED STORM LINE
---	UTILITY EASEMENT
---	R.O.W. LINE
---	EDGE OF PAVEMENT

**NOTES**

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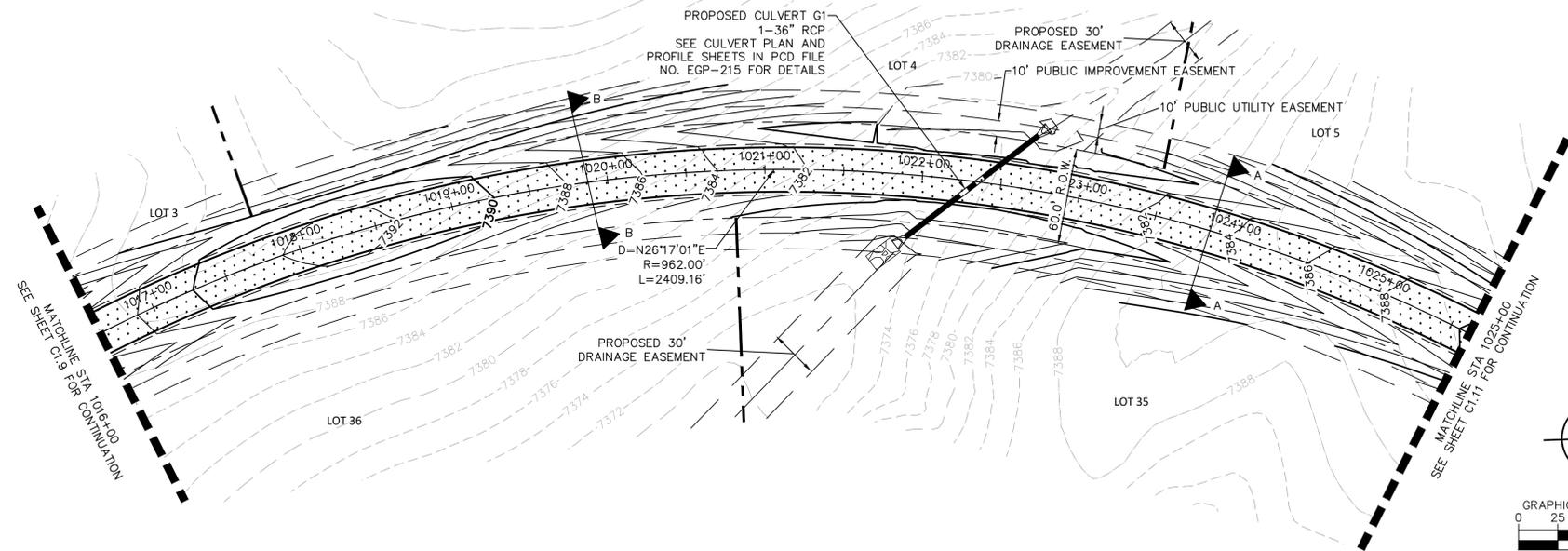
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PROJECT NO.  
196106001  
 SHEET  
**C1.9**

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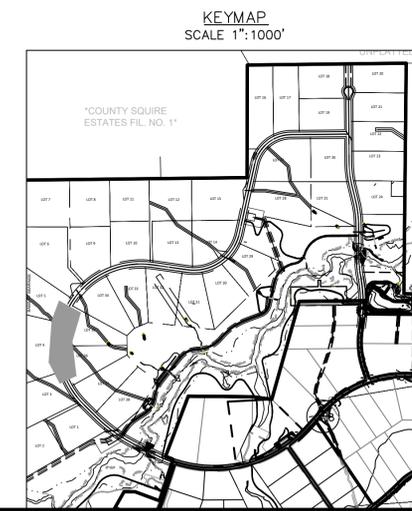
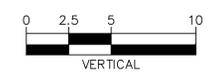
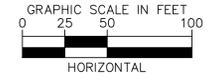
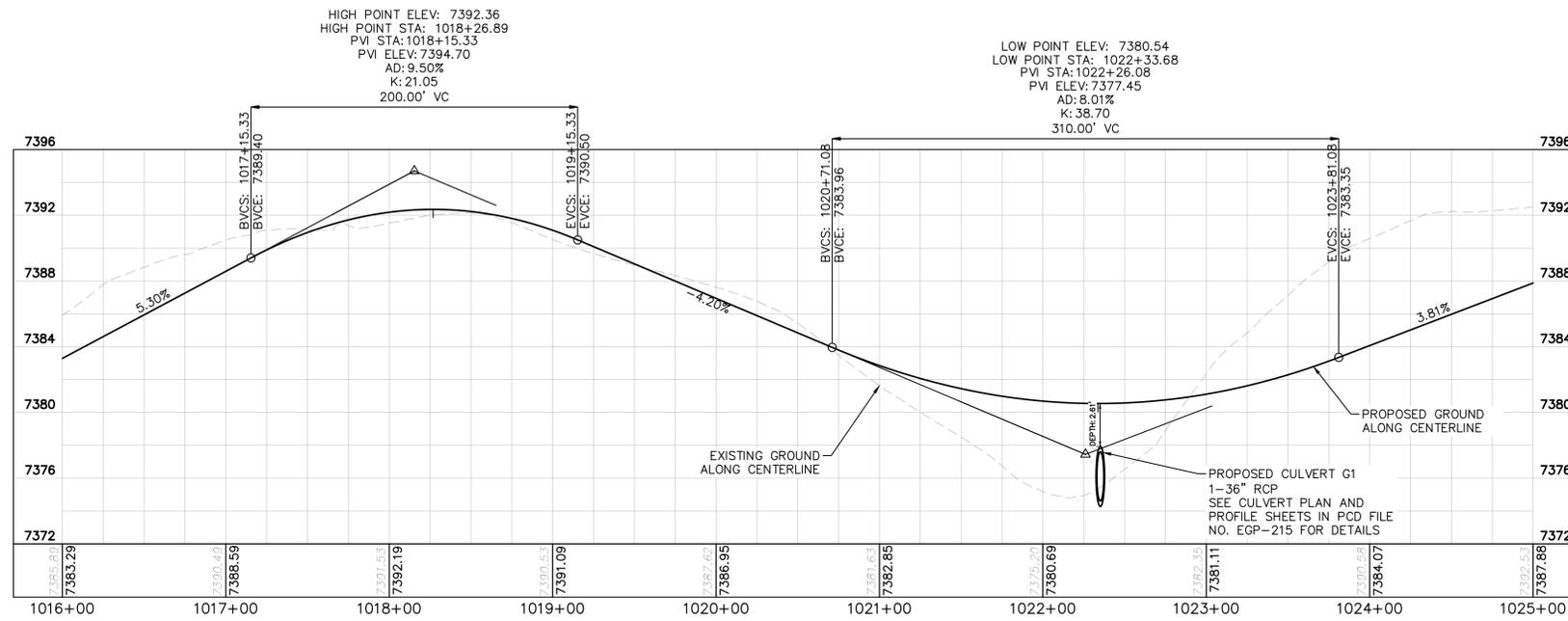
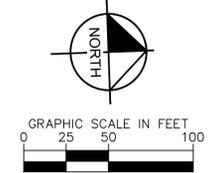


**LEGEND**

- LOT BOUNDARY LINE
- - - - - EXISTING MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- XXXX --- PROPOSED MAJOR CONTOUR
- - - - - PROPOSED MINOR CONTOUR
- X X X X X STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
- PROPOSED STORM LINE
- - - - - UTILITY EASEMENT
- R.O.W. LINE
- EDGE OF PAVEMENT

**NOTES**

1. SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



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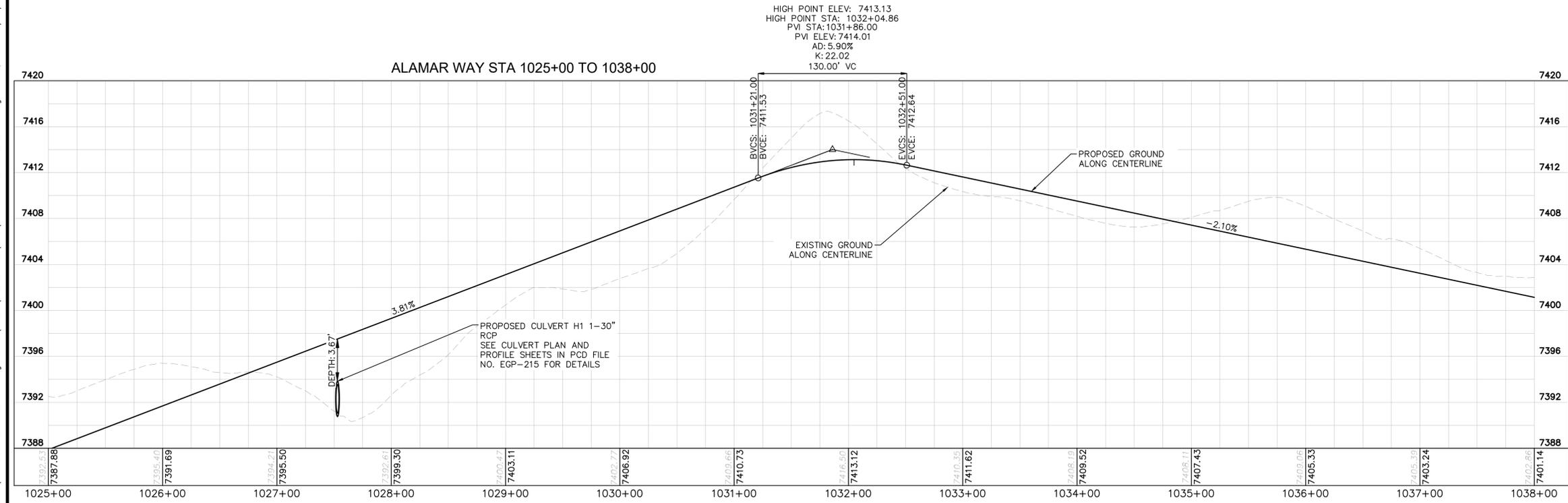
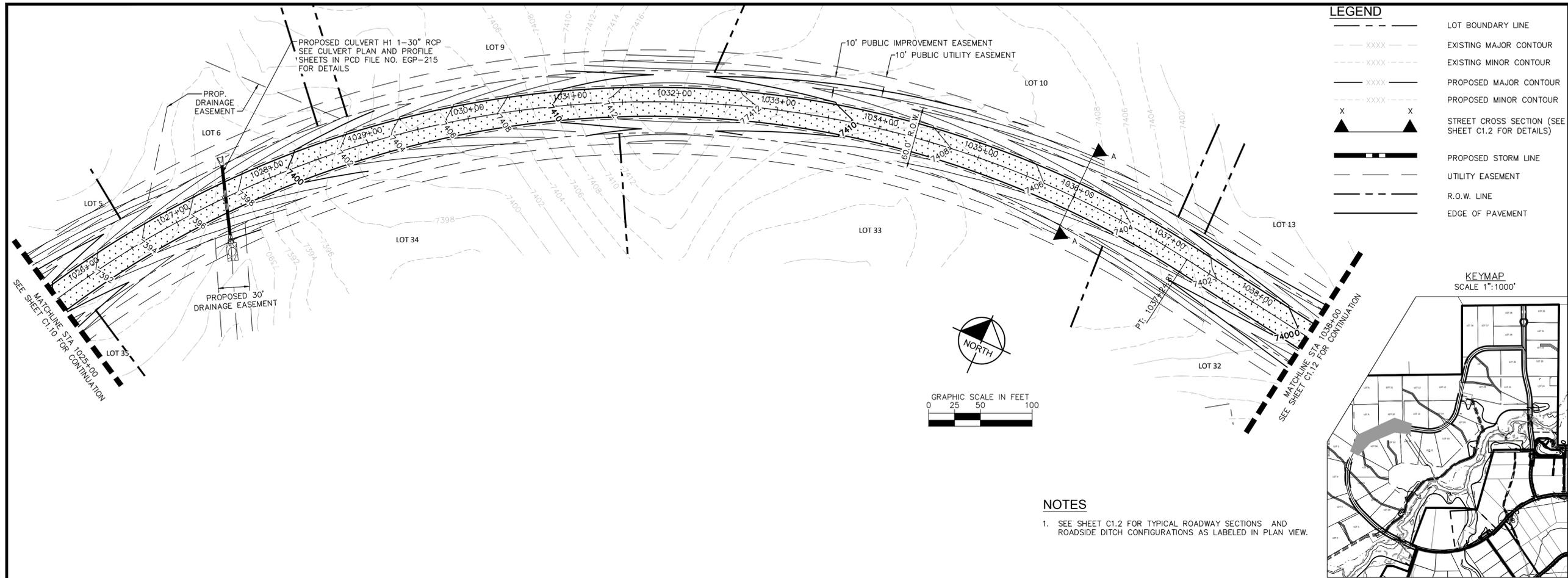
DESIGNED BY: KRK  
 DRAWN BY: A.JL  
 CHECKED BY: KRK  
 DATE: 12/16/2021

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PROJECT NO.  
 196106001  
 SHEET  
**C1.10**

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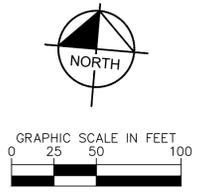
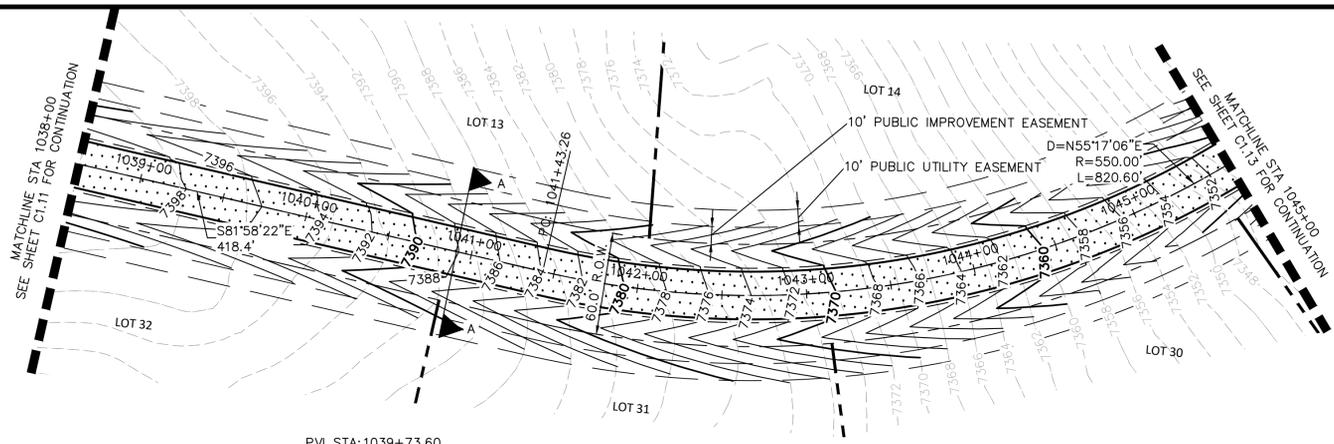
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PROJECT NO.  
196106001

SHEET  
**C1.11**

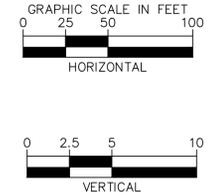
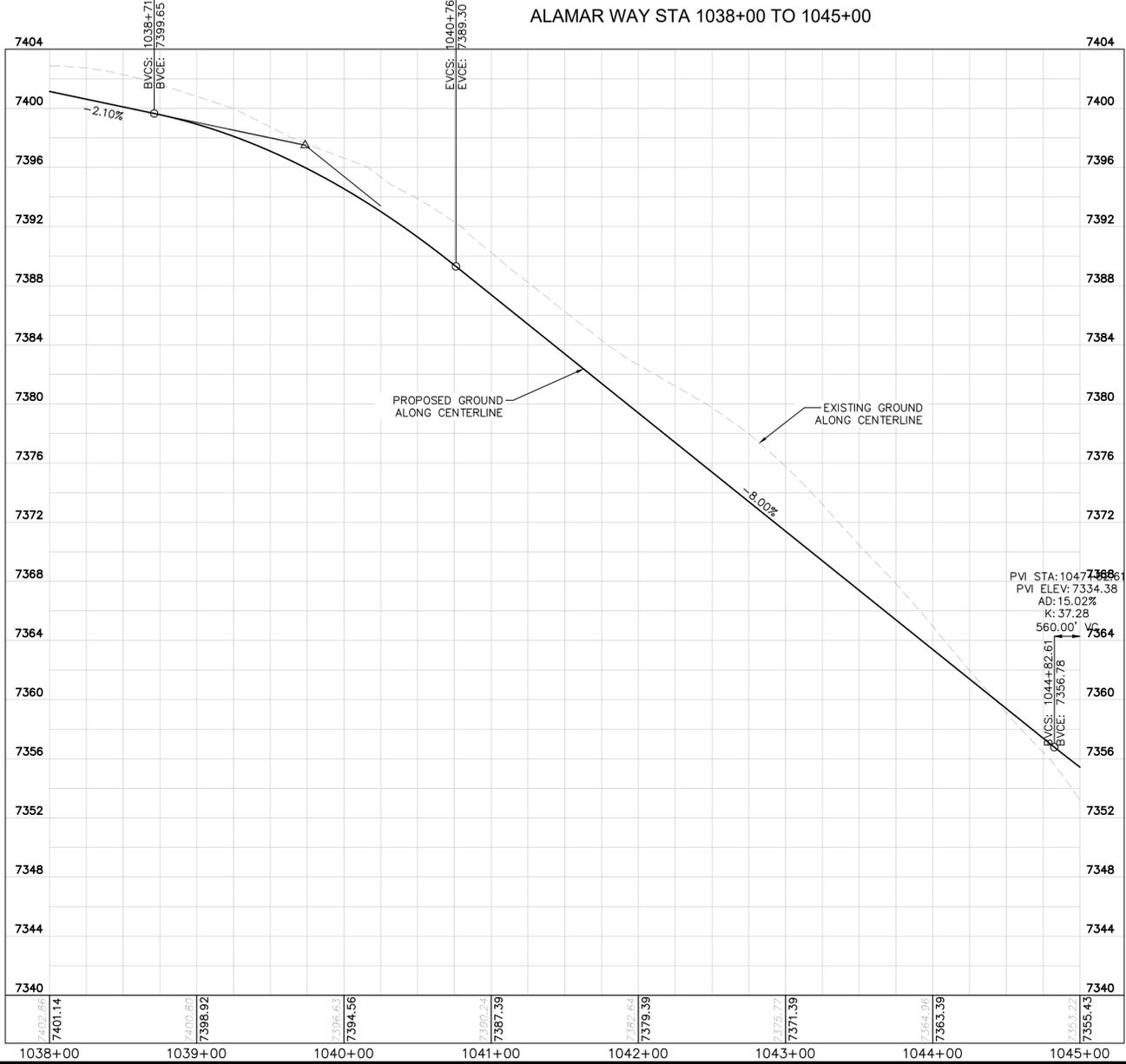
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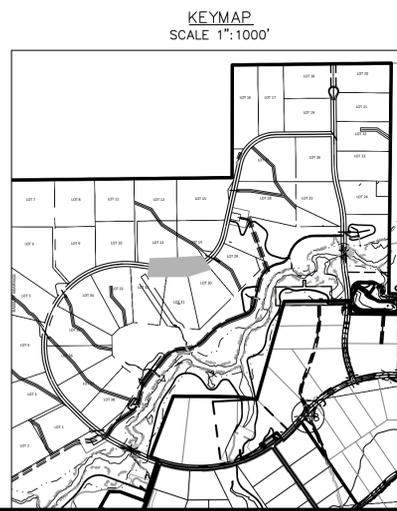
**LEGEND**

	LOT BOUNDARY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
	PROPOSED STORM LINE
	UTILITY EASEMENT
	R.O.W. LINE
	EDGE OF PAVEMENT

PVI STA: 1039+73.60  
 PVI ELEV: 7397.50  
 AD: 5.90%  
 K: 34.72  
 205.00' VC



**NOTES**  
 1. SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



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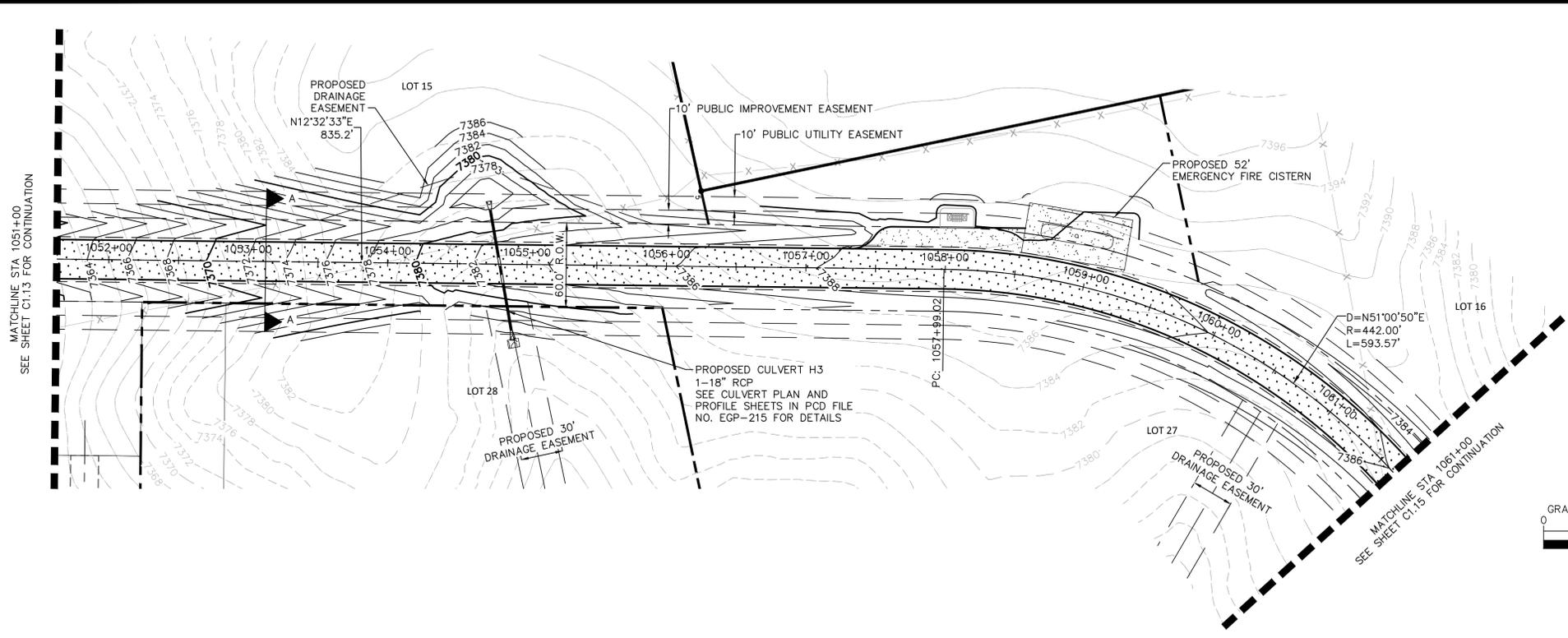
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 196106001  
 SHEET  
**C1.12**

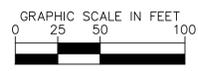


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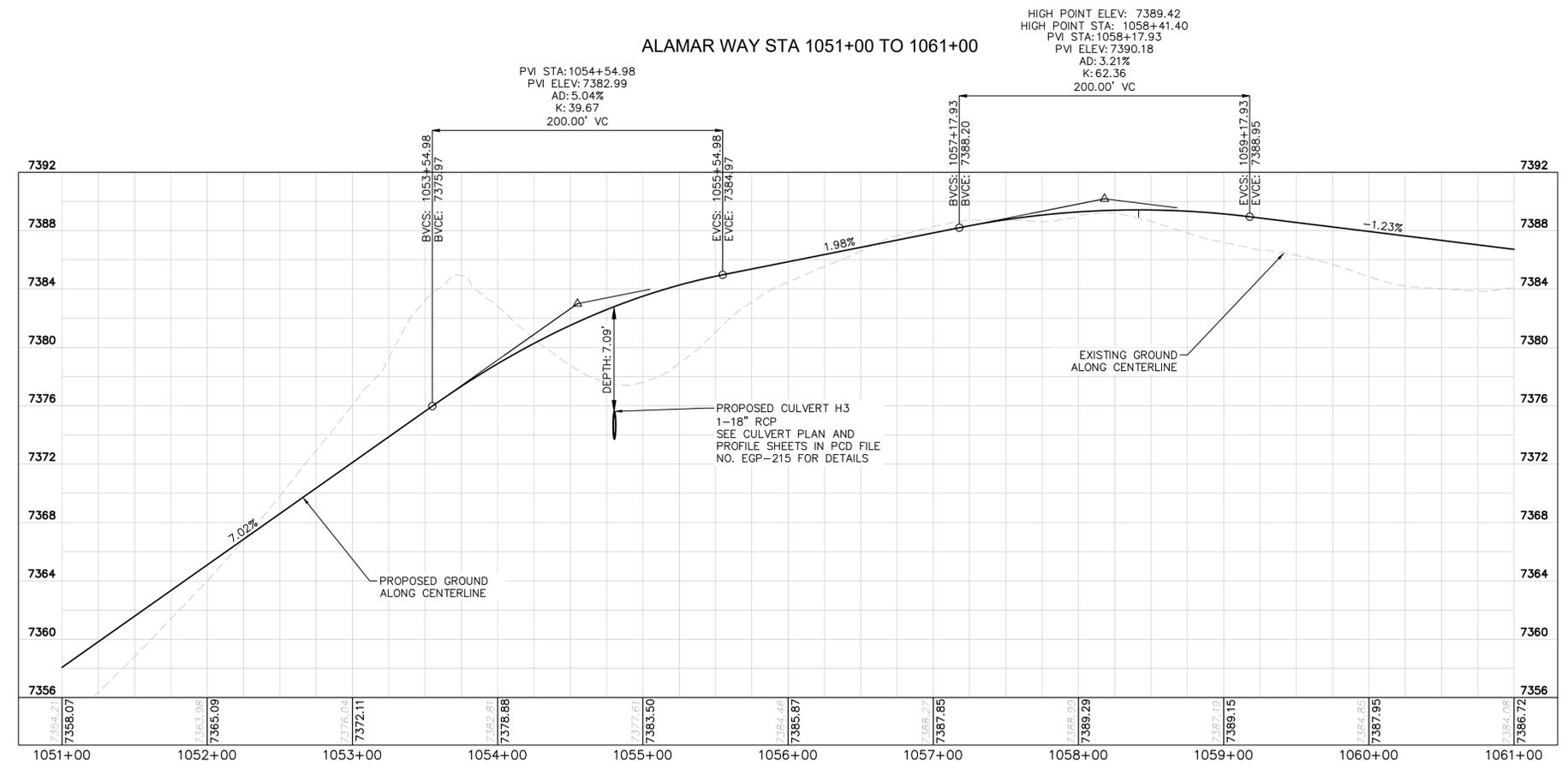


**LEGEND**

---	LOT BOUNDARY LINE
XXXX	EXISTING MAJOR CONTOUR
----	EXISTING MINOR CONTOUR
XXXX	PROPOSED MAJOR CONTOUR
----	PROPOSED MINOR CONTOUR
X X	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
---	PROPOSED STORM LINE
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---	R.O.W. LINE
---	EDGE OF PAVEMENT

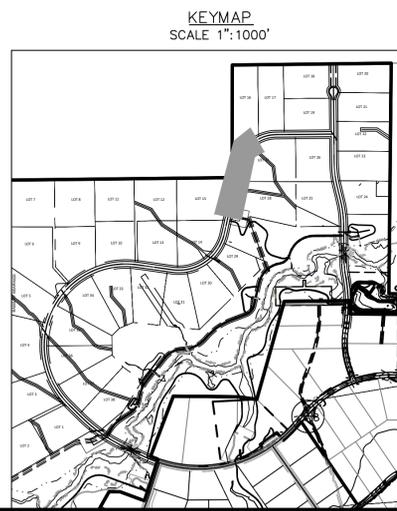
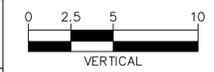
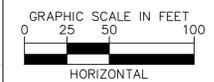


**ALAMAR WAY STA 1051+00 TO 1061+00**



**NOTES**

- SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



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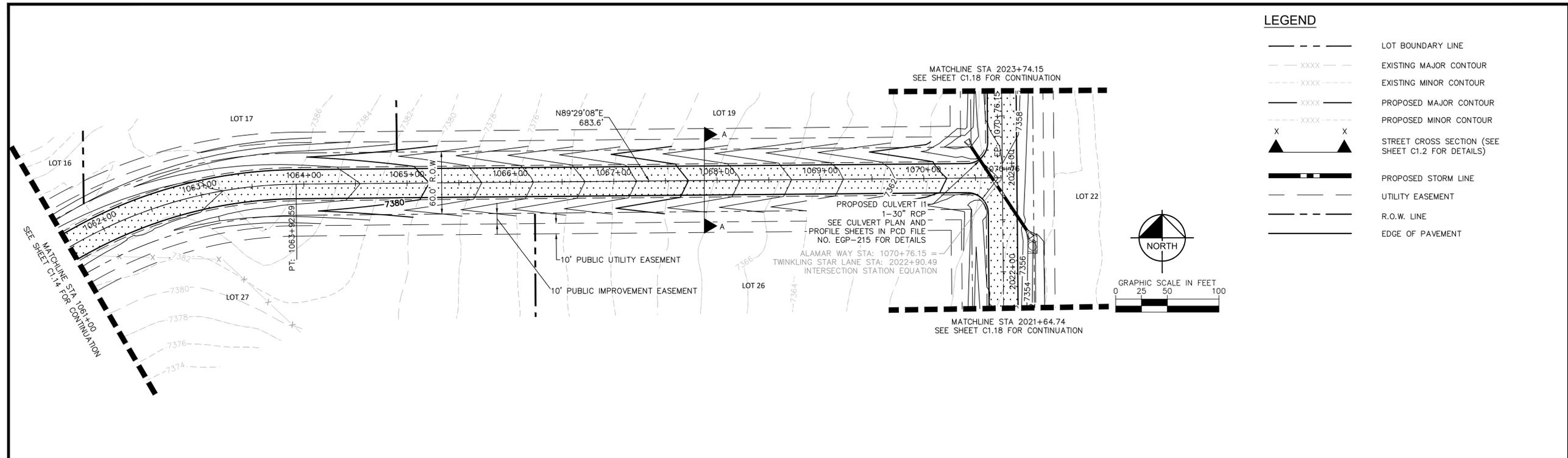
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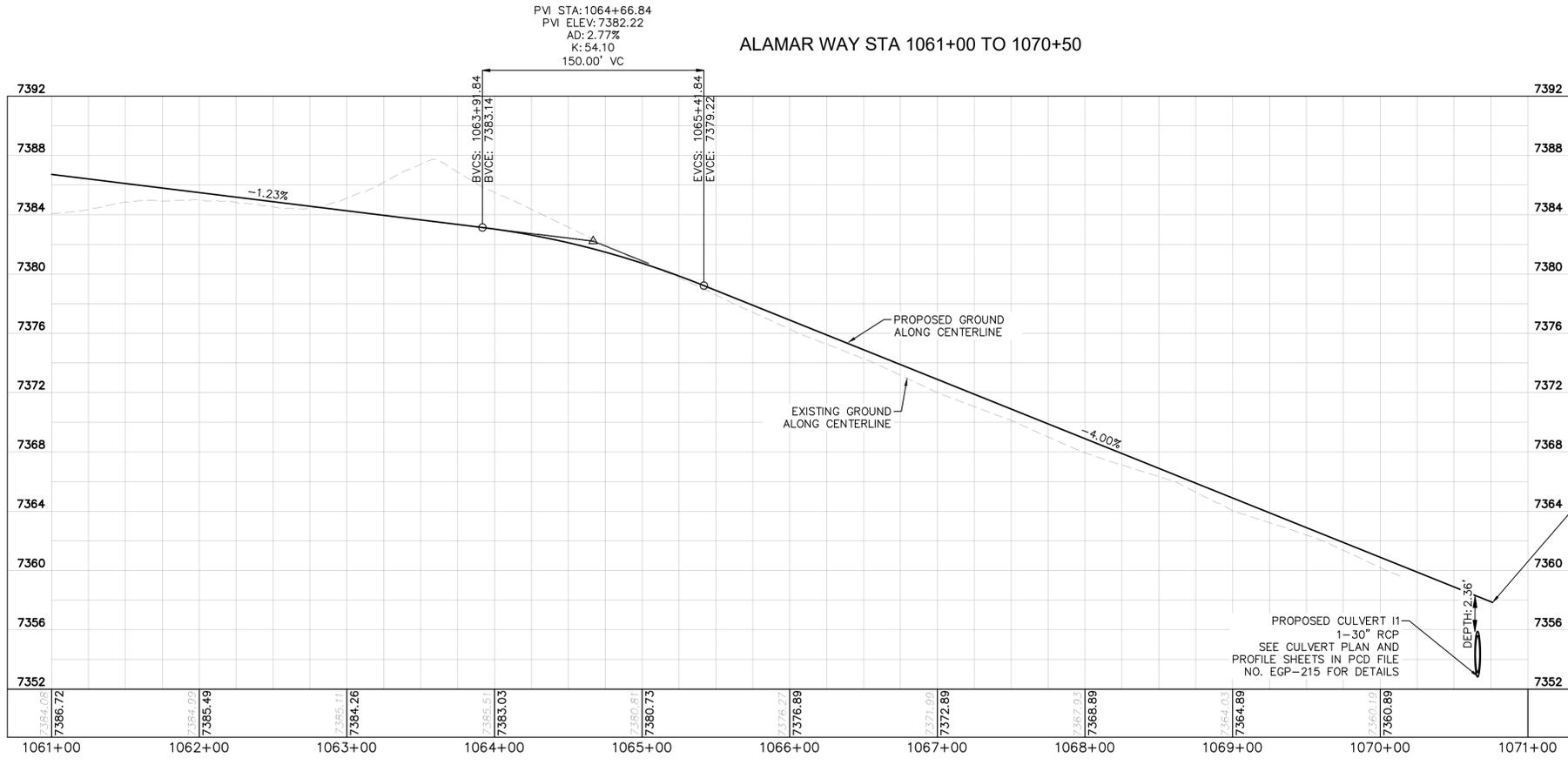
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**C1.14**

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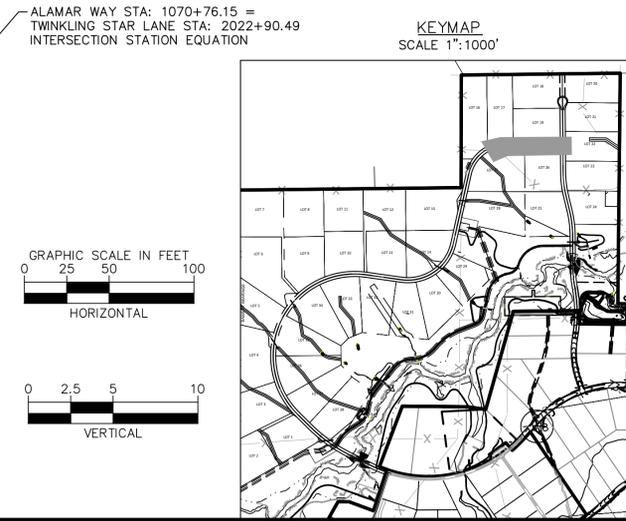
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---	LOT BOUNDARY LINE
XXXX	EXISTING MAJOR CONTOUR
XXXX	EXISTING MINOR CONTOUR
XXXX	PROPOSED MAJOR CONTOUR
XXXX	PROPOSED MINOR CONTOUR
X X	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
---	PROPOSED STORM LINE
---	UTILITY EASEMENT
---	R.O.W. LINE
---	EDGE OF PAVEMENT



**NOTES**

1. SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



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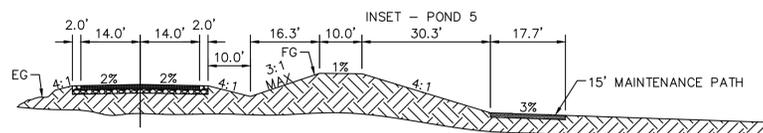
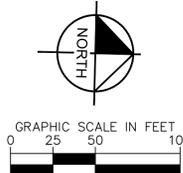
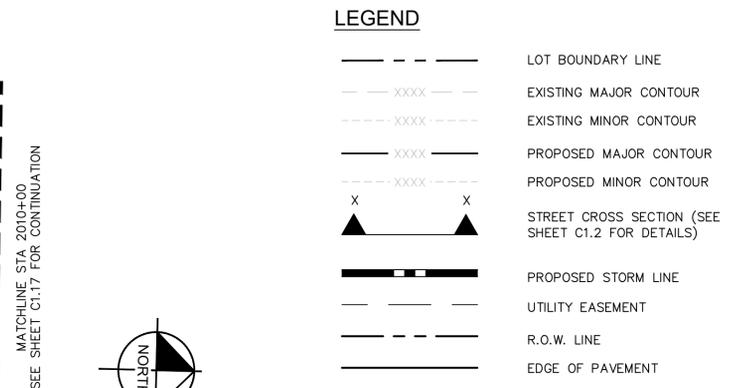
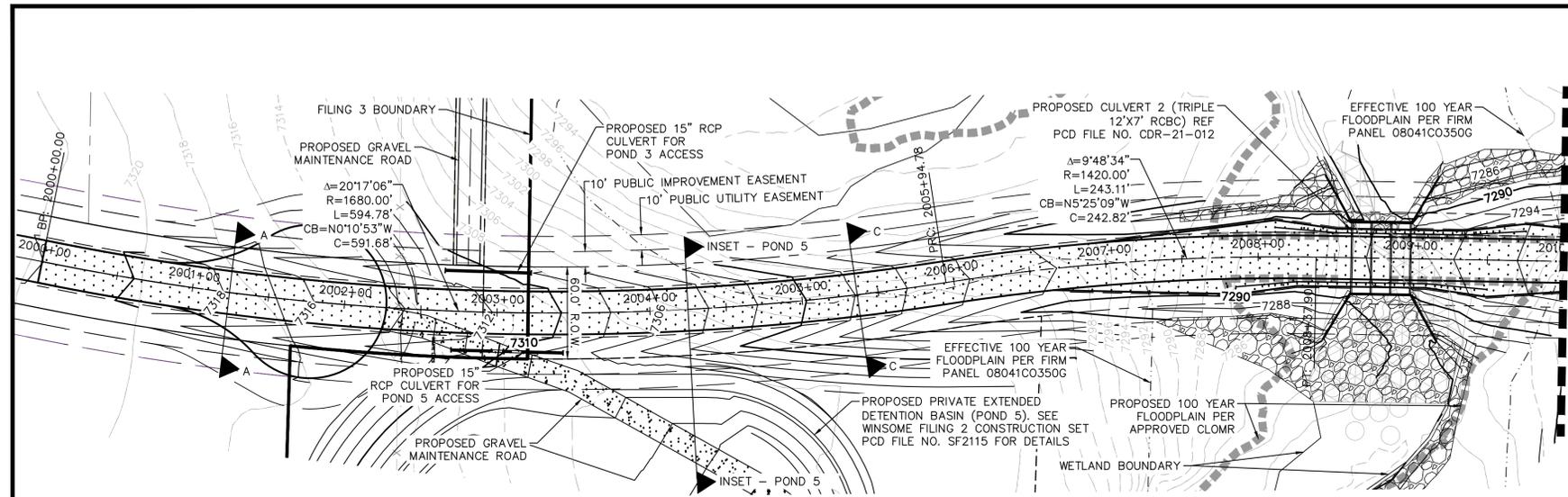
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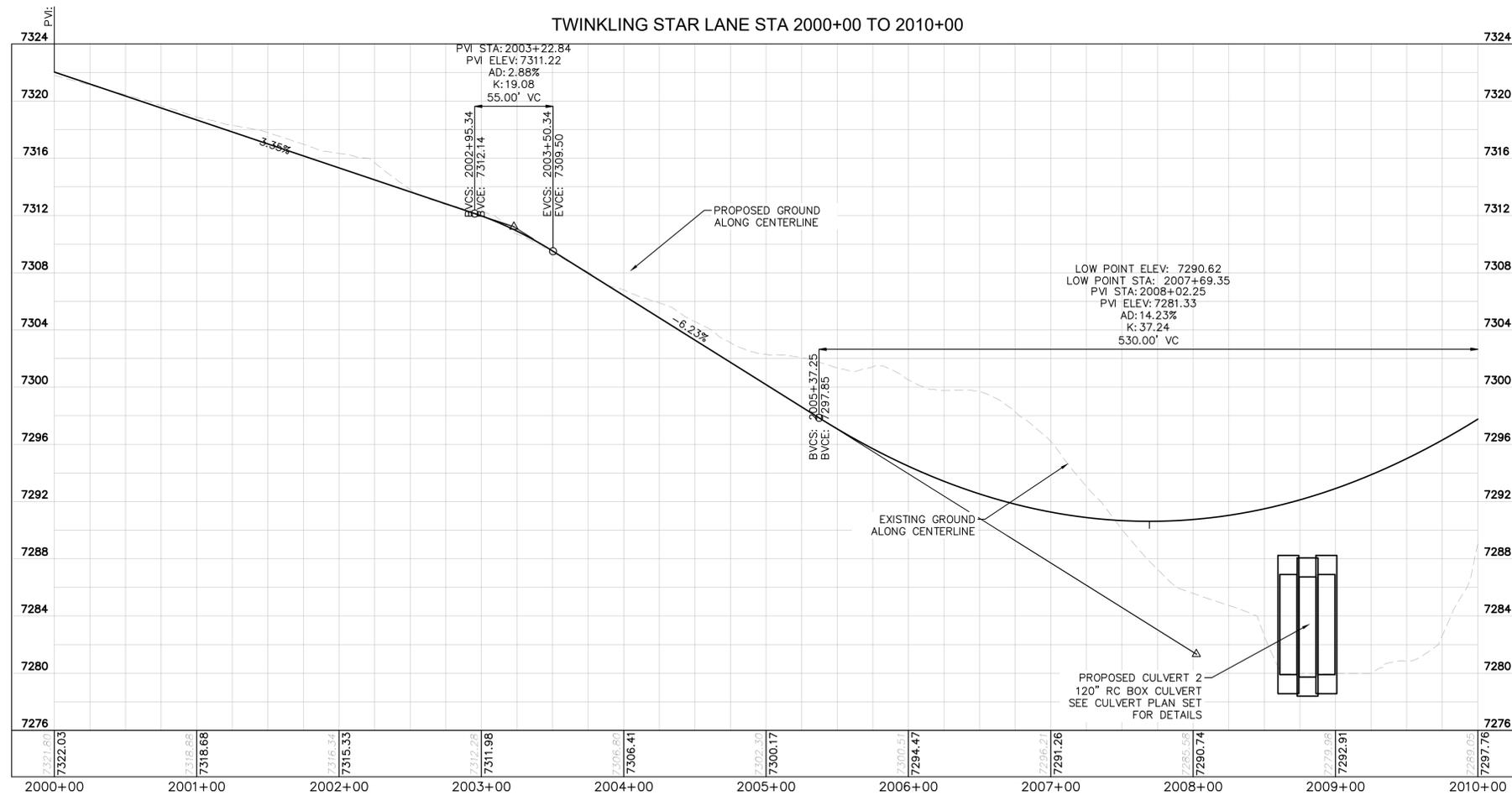
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**C1.15**

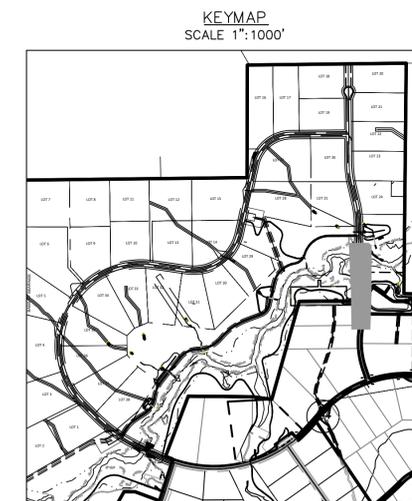
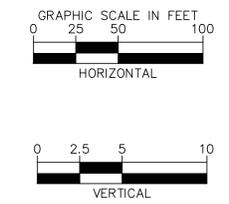
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**INSET - POND 5**  
(WINSOME FILING 2)  
TWINKLING STAR STA: 2004+25.00  
SCALE: 1"=5'



- NOTES**
- SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



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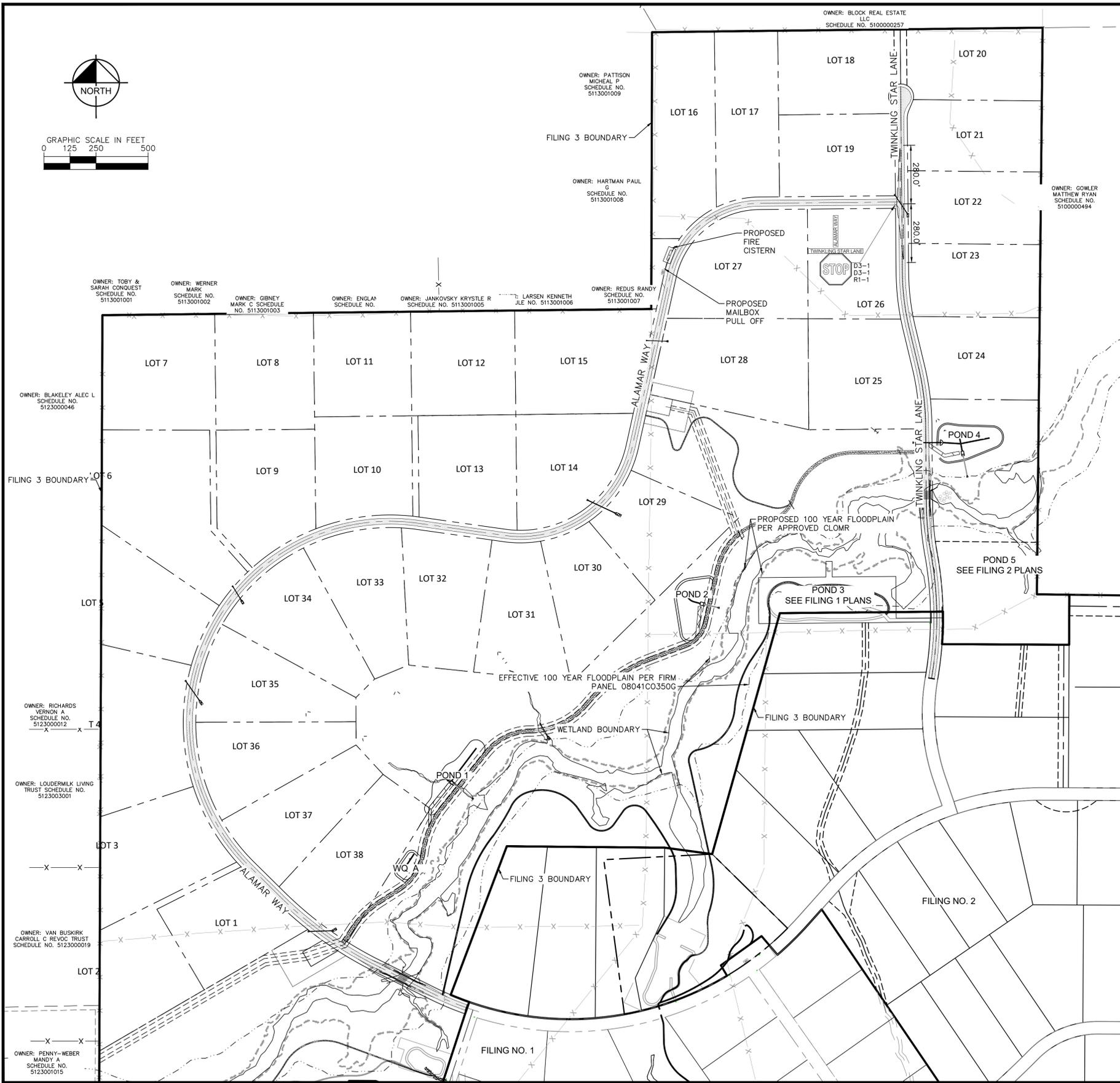
PROJECT NO.  
196106001  
SHEET  
**C1.16**







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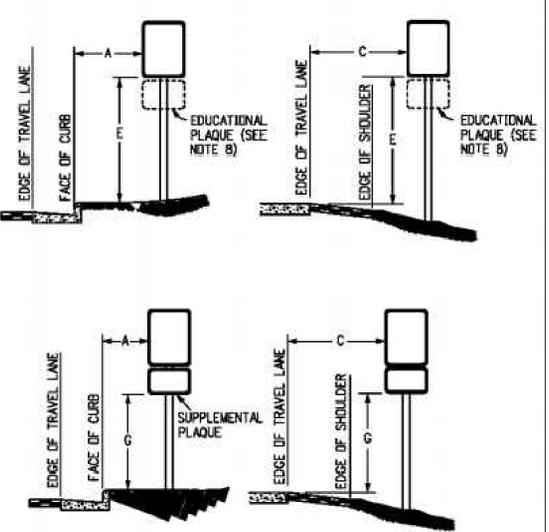


**LEGEND**

- PROPERTY LINE
- - - - - PROPOSED R.O.W.
- ▨ PROPOSED ASPHALT PAVEMENT
- ⬇ PROPOSED CLASS II GROUND MOUNT SIGN

**SIGNING AND STRIPING NOTES**

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.



**REGULATORY, RECREATIONAL AND CULTURAL INFORMATION SIGN PLACEMENT**

**PLACEMENT TABLES**

LATERAL PLACEMENT			VERTICAL PLACEMENT						
KEY	ALL CLASSES OF STREETS AND HIGHWAYS		FREWAYS AND EXPRESSWAYS		CONVENTIONAL STREETS AND HIGHWAYS				
	MINIMUM	NORMAL	MIN.	MAX.	URBAN	RURAL	MAX.		
A	2'-0"	15'-0" PLUS CURB	D	7'-0" OR NOTE NO. 9	12'-0"	7'-0"	8'-0"	5'-0"	8'-0"
B	2'-0"	30'-0" OR MORE INCLUDES CURB	E	7'-0"	8'-0"	7'-0"	8'-0"	5'-0"	8'-0"
C	2'-0"	8'-0" PLUS EDGE OF 8'-0" WIDE SHOULDER. IF MORE, 15'-0" FROM EDGE OF TRAVEL LANE	F	8'-0" OR NOTE NO. 9	12'-0"	8'-0"	9'-0"	5'-0"	9'-0"
			G	8'-0"	7'-0"	8'-0"	7'-0"	4'-0"	7'-0"
			H	5'-0"	10'-0"	8'-0"	7'-0"	4'-0"	7'-0"

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**Kimley»Horn**  
 2021 KIMLEY-HORN AND ASSOCIATES, INC.  
 2 North Nevada Avenue Suite 300  
 Colorado Springs, Colorado 80903 (719) 453-0180

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

WINSOME FILING NO. 3  
 EL PASO COUNTY, COLORADO  
 CONSTRUCTION DOCUMENTS  
**SIGNING AND STRIPING PLAN**

PRELIMINARY  
 FOR REVIEW ONLY  
 NOT FOR CONSTRUCTION  
**Kimley»Horn**  
 Kimley-Horn and Associates, Inc.

PROJECT NO.  
 196106001

SHEET  
**C1.20**

K:\COS\_Civil\196106001\_Winsome Filing No. 3\CADD\PlanSheets\CDS\196106001\_CD\_CUT\_FILL.dwg Wood, Alex 3/15/2023 3:44 PM



**LEGEND**

- CUT AREA
- FILL AREA

TOTAL CUT: 81605 CY  
 TOTAL FILL: 84157 CY  
 NET: 2552 CY (FILL)\*  
 \*1.15 FILL FACTOR APPLIED

NO.	REVISION	BY	DATE	APPR.
1		KRK	8/30/22	KRK
2		KRK	11/30/22	KRK

**Kimley»Horn**  
 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
 2 North Nevada Avenue Suite 300  
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK  
 DRAWN BY: A.JL  
 CHECKED BY: KRK  
 DATE: 12/10/2021

WINSOME FILING NO. 3  
 EL PASO COUNTY, COLORADO  
 PRE DEVELOPMENT GESC PLAN  
**CUT AND FILL MAP**

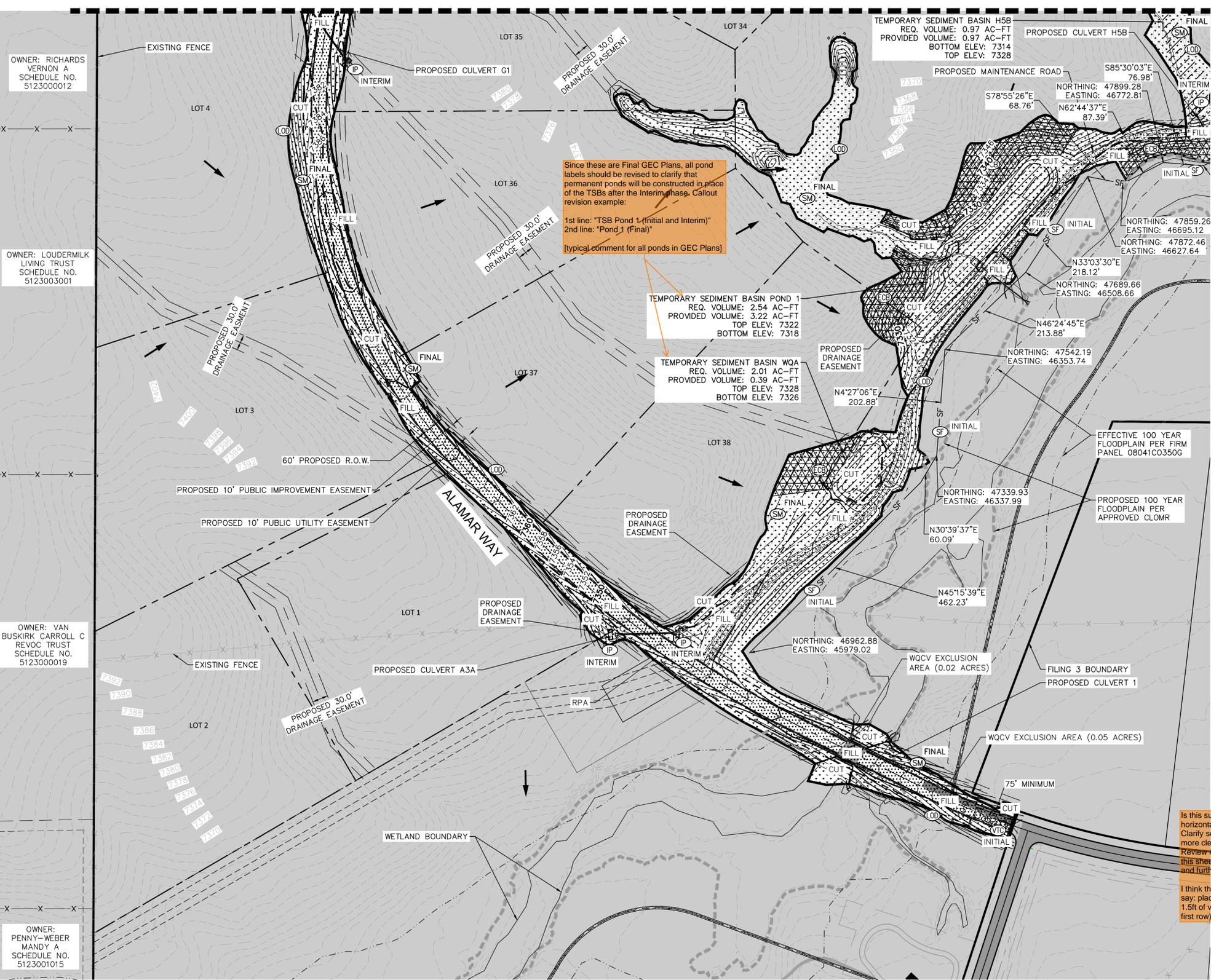
**PRELIMINARY**  
 FOR REVIEW ONLY  
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 CONSTRUCTION  
**Kimley»Horn**  
 Kimley-Horn and Associates, Inc.

PROJECT NO.  
196106001

SHEET  
**C1.21**

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MATCH LINE: SEE SHEET C1.23 FOR CONTINUATION



OWNER: RICHARDS VERNON A SCHEDULE NO. 5123000012

OWNER: LOUDERMILK LIVING TRUST SCHEDULE NO. 5123003001

OWNER: VAN BUSKIRK CARROLL C REVOC TRUST SCHEDULE NO. 5123000019

OWNER: PENNY-WEBER MANDY A SCHEDULE NO. 5123001015

Since these are Final GEC Plans, all pond labels should be revised to clarify that permanent ponds will be constructed in place of the TSBs after the Interim phase. Callout revision example:  
1st line: "TSB Pond 1 (Initial and Interim)"  
2nd line: "Pond 1 (Final)"  
[typical comment for all ponds in GEC Plans]

TEMPORARY SEDIMENT BASIN H5B  
REQ. VOLUME: 0.97 AC-FT  
PROVIDED VOLUME: 0.97 AC-FT  
BOTTOM ELEV: 7314  
TOP ELEV: 7328

TEMPORARY SEDIMENT BASIN POND 1  
REQ. VOLUME: 2.54 AC-FT  
PROVIDED VOLUME: 3.22 AC-FT  
TOP ELEV: 7328  
BOTTOM ELEV: 7318

TEMPORARY SEDIMENT BASIN WQA  
REQ. VOLUME: 2.01 AC-FT  
PROVIDED VOLUME: 0.39 AC-FT  
TOP ELEV: 7328  
BOTTOM ELEV: 7326

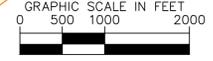
LEGEND

- XXXX--- LOT BOUNDARY LINE
---XXXX--- EXISTING MAJOR CONTOUR
---XXXX--- EXISTING MINOR CONTOUR
---XXXX--- PROPOSED MAJOR CONTOUR
---XXXX--- PROPOSED MINOR CONTOUR
(LOD) LIMITS OF CONSTRUCTION/DISTURBANCE
(CF) CONSTRUCTION FENCE
(SF) SILT FENCE
(CUT/FILL DEMARCATION) CUT/FILL DEMARCATION
(SP) SOIL STOCKPILE
(SA) STABILIZED STAGING AREA
(VTC) VEHICLE TRACKING CONTROL
(GR) GRAVEL MAINTENANCE ROAD
(TSB) TEMPORARY SEDIMENT BASIN
(EB) EROSION CONTROL BLANKET
(SM) PERMANENT SEEDING/MULCHING
(AR) ASPHALT ROADWAY
(WA) CONCRETE WASHOUT
(DF) EXISTING FLOW DIRECTION ARROW
(IP) INLET PROTECTION

NOTES

- 1. THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.
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Table with 2 columns: SIZE OF SCL (STRAW WADDLE) and SPACING (PER VERTICAL FEET OF FALL). Values include 9 INCH (1.5 FEET), 12 INCH (2 FEET), 16 INCH (2.67 FEET).



Is this supposed to be horizontal spacing? Clarify so that this table is more clear. See my Review #1 comments on this sheet for reference and further clarification.
I think that you're trying to say: place a waddle every 1.5ft of vertical fall (for the first row).

Kimley-Horn & Associates, Inc.
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WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
PRE DEVELOPMENT GEC PLAN
GEC FINAL PLAN

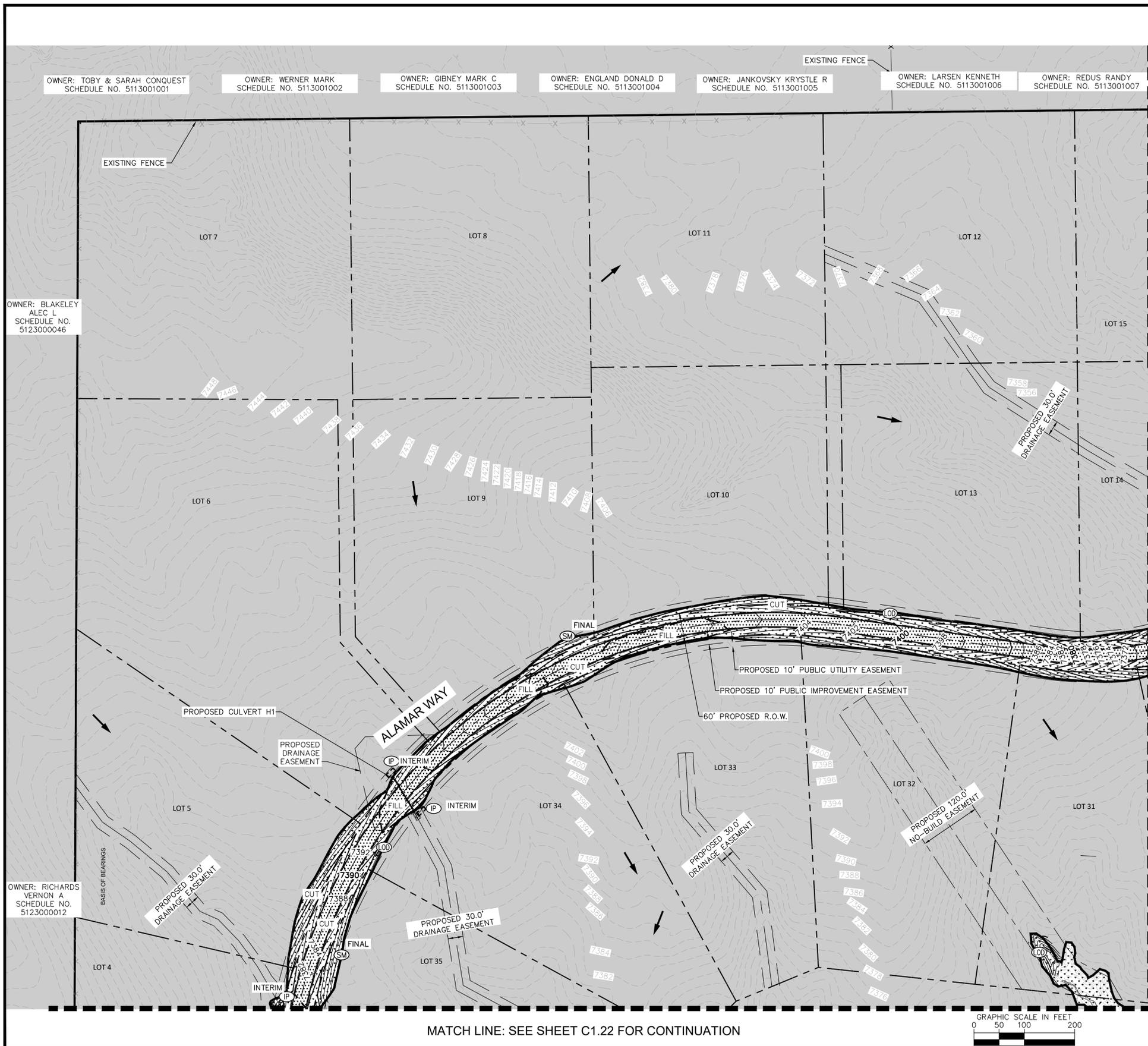
PRELIMINARY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION

PROJECT NO. 196106001
SHEET C1.22

Table with columns: RESUBMITTAL #, NO., DATE, REVISION. Includes entries for KRK 1/30/22 and KRK 8/30/22.

Label Runoff Reduction areas on all GEC Plans

K:\COS\_Civil\196106001\_Winsome Filing No. 3\CADD\PlanSheets\CDS\196106001\_CD\_GEC\_FINAL.dwg Wood, Alex 3/15/2023 3:45 PM



MATCH LINE: SEE SHEET C1.24 FOR CONTINUATION

MATCH LINE: SEE SHEET C1.25 FOR CONTINUATION

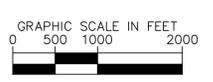
**LEGEND**

- LOT BOUNDARY LINE
- XXXX --- EXISTING MAJOR CONTOUR
- XXXX --- EXISTING MINOR CONTOUR
- XXXX --- PROPOSED MAJOR CONTOUR
- XXXX --- PROPOSED MINOR CONTOUR
- LOD --- LIMITS OF CONSTRUCTION/DISTURBANCE
- CF --- CONSTRUCTION FENCE
- SF --- SILT FENCE
- SF --- CUT/FILL DEMARCATION
- SP --- SOIL STOCKPILE
- SSA --- STABILIZED STAGING AREA
- VTC --- VEHICLE TRACKING CONTROL
- GR --- GRAVEL MAINTENANCE ROAD
- TS --- TEMPORARY SEDIMENT BASIN
- ECB --- EROSION CONTROL BLANKET
- SM --- PERMANENT SEEDING/MULCHING
- CWA --- ASPHALT ROADWAY
- CWA --- CONCRETE WASHOUT
- IP --- EXISTING FLOW DIRECTION ARROW
- IP --- INLET PROTECTION

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SIZE OF SCL (STRAW WADDLE)	SPACING (PER VERTICAL FEET OF FALL)
9 INCH	1.5 FEET
12 INCH	2 FEET
16 INCH	2.67 FEET



MATCH LINE: SEE SHEET C1.22 FOR CONTINUATION

NO.	REVISION	DATE	BY	DATE	APPR.
1	RESUBMITTAL #1		KRK	11/30/22	KRK
2	RESUBMITTAL #2		KRK	8/30/22	KRK

**Kimley»Horn**  
 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
 2 North Nevada Avenue Suite 300  
 Colorado Springs, Colorado 80903 (719) 453-0180

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

WINSOME FILING NO. 3  
 EL PASO COUNTY, COLORADO  
 PRE DEVELOPMENT GESC PLAN  
 GEC FINAL PLAN

**PRELIMINARY**  
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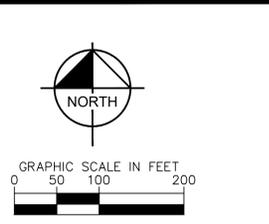
**Kimley»Horn**  
 Kimley-Horn and Associates, Inc.

PROJECT NO.  
196106001

SHEET  
**C1.23**

K:\COS\_Civil\196106001\_Winsome Filing No. 3\CADD\PlanSheets\Cds\196106001\_CD\_GEC\_FINAL.dwg Wood, Alex 3/15/2023 3:45 PM

MATCH LINE: SEE SHEET C1.23 FOR CONTINUATION



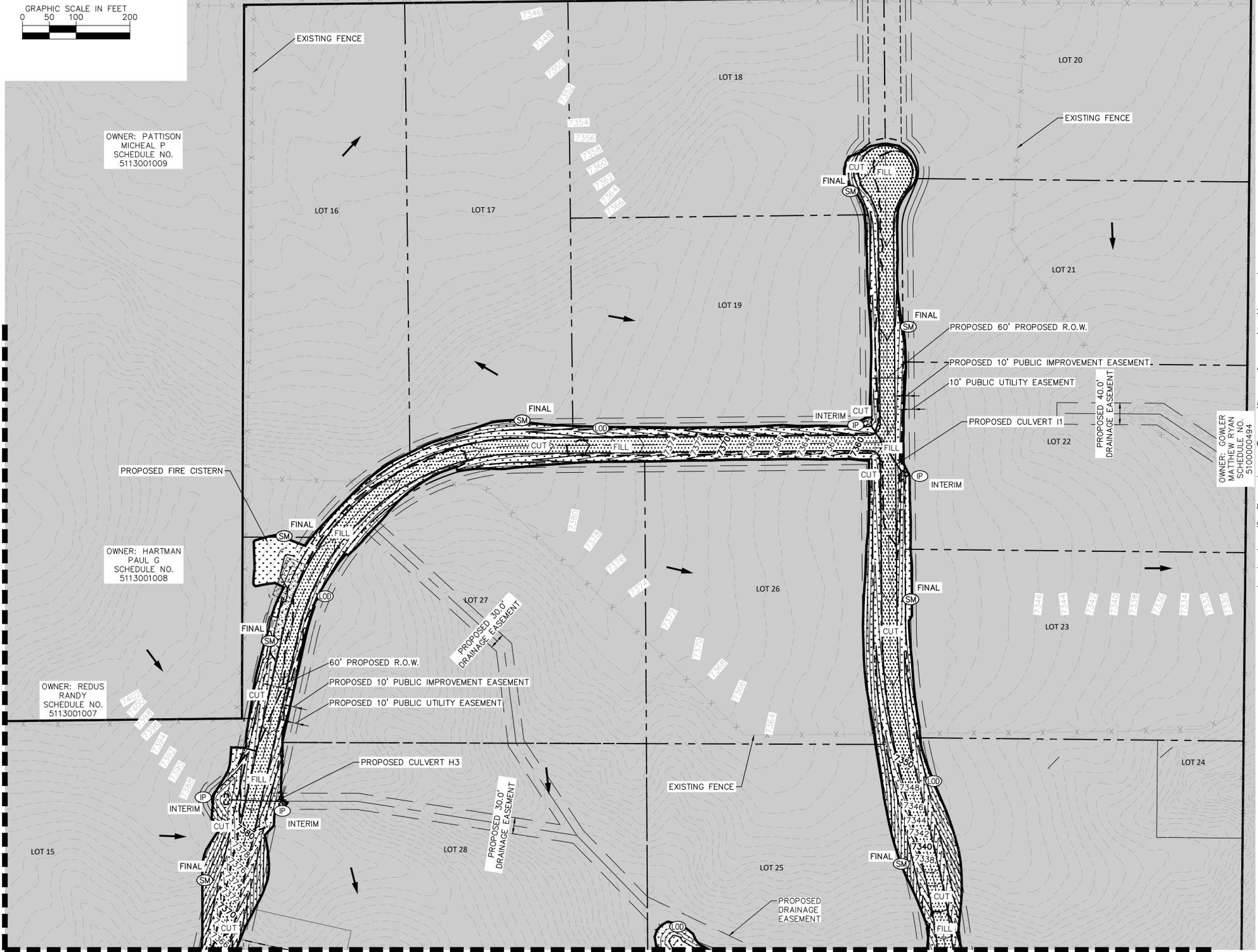
OWNER: PATTISON  
MICHAEL P.  
SCHEDULE NO.  
5113001009

OWNER: HARTMAN  
PAUL G.  
SCHEDULE NO.  
5113001008

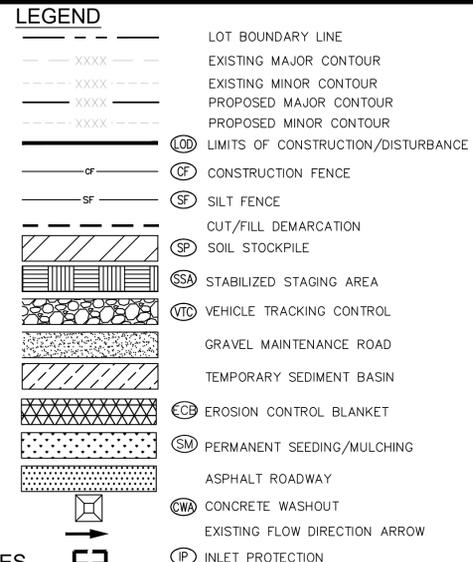
OWNER: REDUS  
RANDY  
SCHEDULE NO.  
5113001007

OWNER: BLOCK REAL  
ESTATE LLC  
SCHEDULE NO.  
510000257

OWNER: COWLER  
SCHEDULE NO.  
510000494

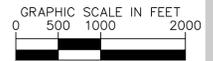


MATCH LINE: SEE SHEET C1.25 FOR CONTINUATION



- NOTES**
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9 INCH	1.5 FEET
12 INCH	2 FEET
16 INCH	2.67 FEET



NO.	REVISION	DATE	BY	APPR.
1				
2				

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2 North Nevada Avenue Suite 300  
Colorado Springs, Colorado 80903 (719) 453-0180

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

WINSOME FILING NO. 3  
EL PASO COUNTY, COLORADO  
PRE DEVELOPMENT GESC PLAN  
GEC FINAL PLAN

PRELIMINARY  
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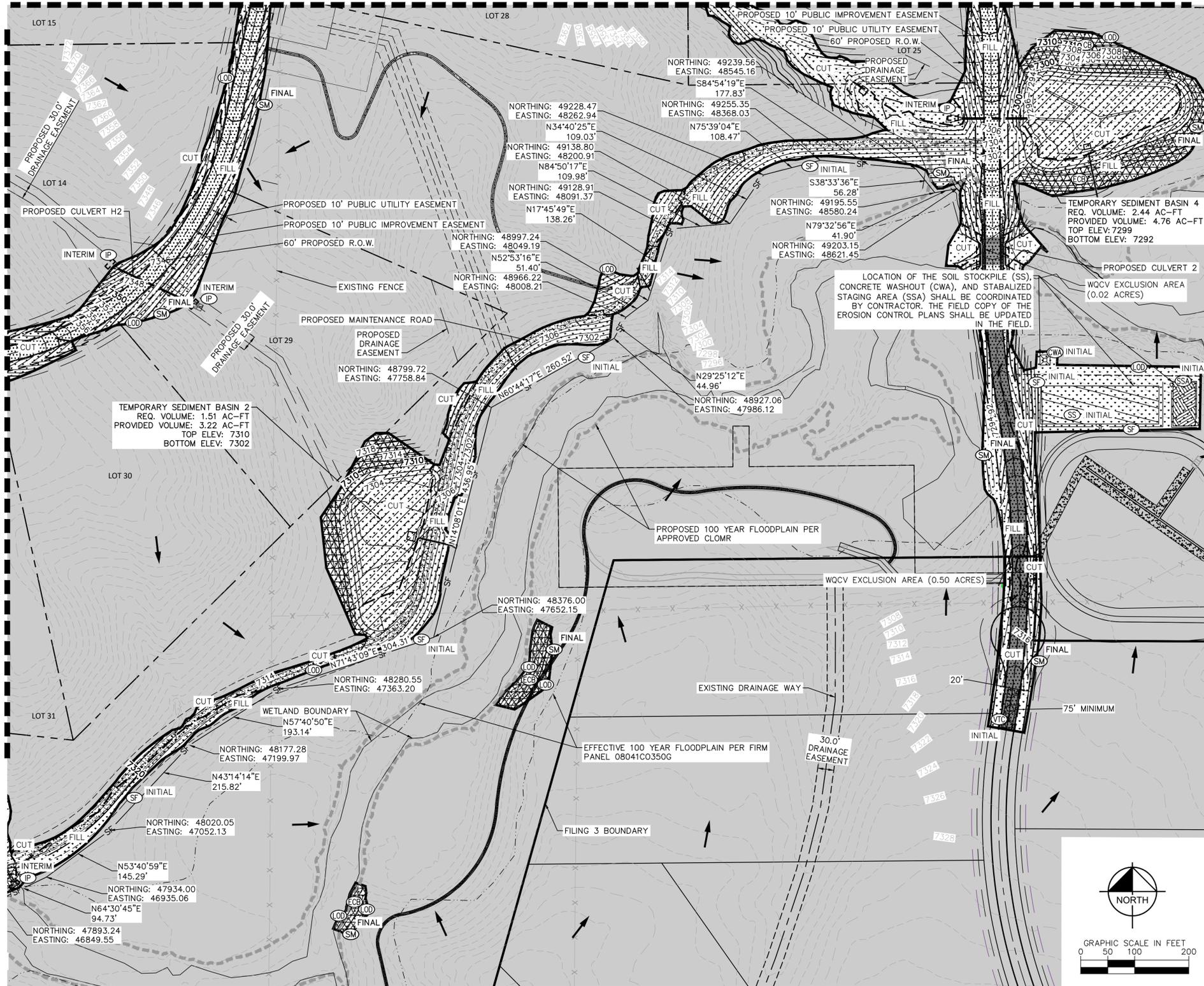
**Kimley»Horn**  
Kimley-Horn and Associates, Inc.

PROJECT NO.  
196106001  
SHEET  
**C1.24**

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MATCH LINE: SEE SHEET C1.23 FOR CONTINUATION

MATCH LINE: SEE SHEET C1.24 FOR CONTINUATION



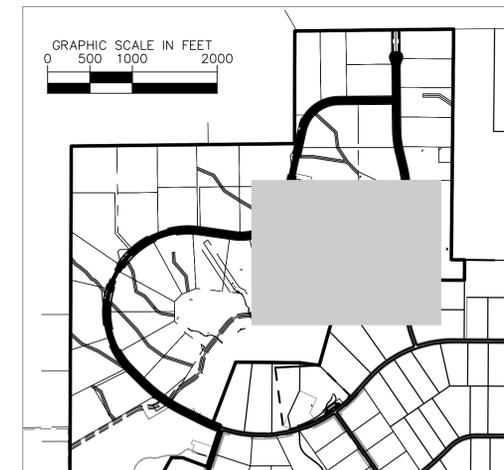
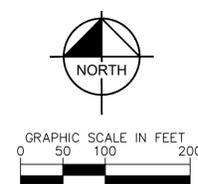
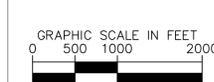
**LEGEND**

- LOT BOUNDARY LINE
- EXISTING MAJOR CONTOUR
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- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- (OD)--- LIMITS OF CONSTRUCTION/DISTURBANCE
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NO.	REVISION	DATE	BY
1	RESUBMITTAL #2	11/30/22	KRK
2	RESUBMITTAL #1	11/30/22	KRK

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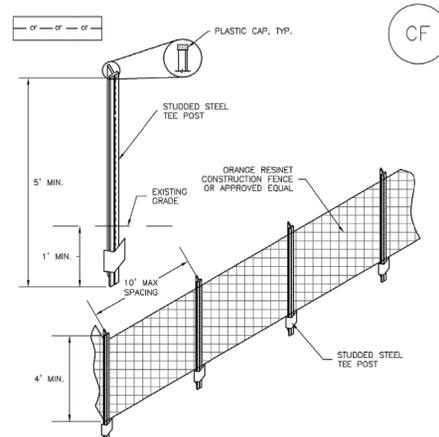
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**WINSOME FILING NO. 3  
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 PRE DEVELOPMENT GESC PLAN  
 GEC FINAL PLAN**

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 Kimley-Horn and Associates, Inc.

PROJECT NO.  
196106001  
 SHEET  
**C1.25**

**SM-3 Construction Fence (CF)**



**CF-1. PLASTIC MESH CONSTRUCTION FENCE**

- CONSTRUCTION FENCE INSTALLATION NOTES**
- SEE PLAN VIEW FOR: -LOCATION OF CONSTRUCTION FENCE.
  - CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
  - CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY.
  - STUDDOED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE. MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.
  - CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.

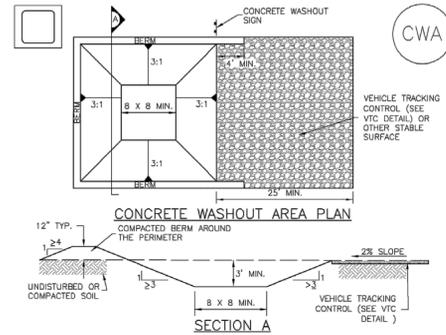
CF-2 Urban Drainage and Flood Control District November 2010  
Urban Storm Drainage Criteria Manual Volume 3

**Construction Fence (CF) SM-3**

- CONSTRUCTION FENCE MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
  - WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

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**Concrete Washout Area (CWA) MM-1**



**CWA-1. CONCRETE WASHOUT AREA**

- CWA INSTALLATION NOTES**
- SEE PLAN VIEW FOR: -CWA INSTALLATION LOCATION.
  - DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (1/8 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
  - THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
  - CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
  - BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
  - VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
  - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRIGS.
  - USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

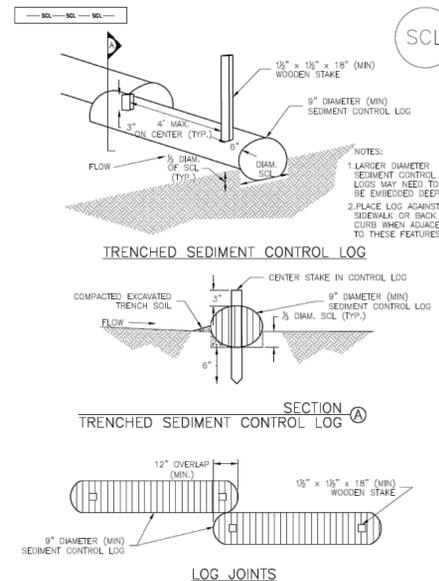
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**MM-1 Concrete Washout Area (CWA)**

- CWA MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE, CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
  - CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
  - THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
  - WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CWA-4 Urban Drainage and Flood Control District November 2010  
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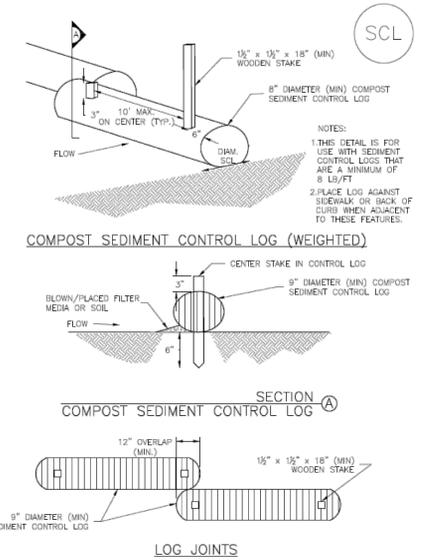
**Sediment Control Log (SCL) SC-2**



**SCL-1. TRENCHED SEDIMENT CONTROL LOG**

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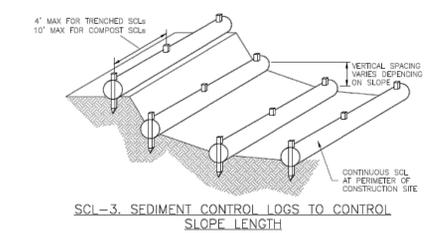
**SC-2 Sediment Control Log (SCL)**



**SCL-2. COMPOST SEDIMENT CONTROL LOG (WEIGHTED)**

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**Sediment Control Log (SCL) SC-2**



**SCL-3. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH**

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**SC-2 Sediment Control Log (SCL)**

- SEDIMENT CONTROL LOG INSTALLATION NOTES**
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
  - SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADE/IMPROVEMENT DISTURBING ACTIVITIES.
  - SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
  - SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
  - IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/2 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.
  - THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.
  - FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6\"/>
- SEDIMENT CONTROL LOG MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
  - SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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NO.	REVISION	DATE	APPR.

**Kimley»Horn**  
2021 KIMLEY-HORN AND ASSOCIATES, INC.  
2 North Nevada Avenue Suite 300  
Colorado Springs, Colorado 80903 (719) 453-0180

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

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

PRELIMINARY  
FOR REVIEW ONLY  
NOT FOR CONSTRUCTION  
**Kimley»Horn**  
Kimley-Horn and Associates, Inc.

PROJECT NO.  
196106001  
SHEET  
**C1.26**

**Temporary and Permanent Seeding (TS/PS) EC-2**

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species* (Common name)	Growth Season*	Pounds of Pure Live Seed (PLS)/acre <sup>e</sup>	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring barley	Cool	25 - 35	1 - 2
3. Spring wheat	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	½
5. Millet	Warm	3 - 15	½ - ¾
6. Sudangrass	Warm	5 - 10	½ - ¾
7. Sorghum	Warm	5 - 10	½ - ¾
8. Winter wheat	Cool	20 - 35	1 - 2
9. Winter barley	Cool	20 - 35	1 - 2
10. Winter rye	Cool	20 - 35	1 - 2
11. Triticale	Cool	25 - 40	1 - 2

\* Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches.

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

<sup>b</sup> See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

<sup>c</sup> Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

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**EC-2 Temporary and Permanent Seeding (TS/PS)**

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses

Common* Name	Botanical Name	Growth Season*	Growth Form	Seeds/ Pound	Pounds of PLS/acre
<b>Alkali Soil Seed Mix</b>					
Alkali sacaton	<i>Sporobolus airoides</i>	Cool	Bunch	1,750,000	0.25
Basin wildrye	<i>Elymus cinereus</i>	Cool	Bunch	165,000	2.5
Sodar streambank wheatgrass	<i>Agropyron riparium 'Sodar'</i>	Cool	Sod	170,000	2.5
Jose tall wheatgrass	<i>Agropyron elongatum 'Jose'</i>	Cool	Bunch	79,000	7.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
<b>Total</b>					<b>17.75</b>
<b>Fertile Loamy Soil Seed Mix</b>					
Ephriam crested wheatgrass	<i>Agropyron cristatum 'Ephriam'</i>	Cool	Sod	175,000	2.0
Dural hard fescue	<i>Festuca ovina 'durivacuola'</i>	Cool	Bunch	565,000	1.0
Lincoln smooth brome	<i>Bromus inermis leys 'Lincoln'</i>	Cool	Sod	130,000	3.0
Sodar streambank wheatgrass	<i>Agropyron riparium 'Sodar'</i>	Cool	Sod	170,000	2.5
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	7.0
<b>Total</b>					<b>15.5</b>
<b>High Water Table Soil Seed Mix</b>					
Meadow foxtail	<i>Alopecurus pratensis</i>	Cool	Sod	900,000	0.5
Redtop	<i>Agrostis alba</i>	Warm	Open sod	5,000,000	0.25
Reed canarygrass	<i>Phalaris arundinacea</i>	Cool	Sod	68,000	0.5
Lincoln smooth brome	<i>Bromus inermis leys 'Lincoln'</i>	Cool	Sod	130,000	3.0
Pathfinder switchgrass	<i>Panicum virgatum 'Pathfinder'</i>	Warm	Sod	389,000	1.0
Alkar tall wheatgrass	<i>Agropyron elongatum 'Alkar'</i>	Cool	Bunch	79,000	5.5
<b>Total</b>					<b>10.75</b>
<b>Transition Turf Seed Mix*</b>					
Ruebena Canadian bluegrass	<i>Poa compressa 'Ruebena'</i>	Cool	Sod	2,500,000	0.5
Dural hard fescue	<i>Festuca ovina 'durivacuola'</i>	Cool	Bunch	565,000	1.0
Citation perennial ryegrass	<i>Lolium perenne 'Citation'</i>	Cool	Sod	247,000	3.0
Lincoln smooth brome	<i>Bromus inermis leys 'Lincoln'</i>	Cool	Sod	130,000	3.0
<b>Total</b>					<b>7.5</b>

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**Temporary and Permanent Seeding (TS/PS) EC-2**

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

Common Name	Botanical Name	Growth Season*	Growth Form	Seeds/ Pound	Pounds of PLS/acre
<b>Sandy Soil Seed Mix</b>					
Blue grama	<i>Bouteloua gracilis</i>	Warm	Sod-forming bunchgrass	825,000	0.5
Camper little bluestem	<i>Setozachyrium scoparium 'Camper'</i>	Warm	Bunch	240,000	1.0
Prairie sandreed	<i>Calamovilfa longifolia</i>	Warm	Open sod	274,000	1.0
Sand dropseed	<i>Sporobolus cryptandrus</i>	Cool	Bunch	5,298,000	0.25
Vaughn sideoats grama	<i>Bouteloua curtipendula 'Vaughn'</i>	Warm	Sod	191,000	2.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
<b>Total</b>					<b>10.25</b>
<b>Heavy Clay, Rocky Foothill Seed Mix</b>					
Ephriam crested wheatgrass <sup>a</sup>	<i>Agropyron cristatum 'Ephriam'</i>	Cool	Sod	175,000	1.5
Oahe Intermediate wheatgrass	<i>Agropyron intermedium 'Oahe'</i>	Cool	Sod	115,000	5.5
Vaughn sideoats grama <sup>c</sup>	<i>Bouteloua curtipendula 'Vaughn'</i>	Warm	Sod	191,000	2.0
Lincoln smooth brome	<i>Bromus inermis leys 'Lincoln'</i>	Cool	Sod	130,000	3.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
<b>Total</b>					<b>17.5</b>

<sup>a</sup> All of the above seeding mixes and rates are based on drill seeding followed by crimped straw mulch. These rates should be doubled if seed is broadcast and should be increased by 50 percent if the seeding is done using a Brillion Drill or is applied through hydraulic seeding. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1. If hydraulic seeding is used, hydraulic mulching should be done as a separate operation.

<sup>b</sup> See Table TS/PS-3 for seeding dates.

<sup>c</sup> If site is to be irrigated, the transition turf seed rates should be doubled.

<sup>d</sup> Crested wheatgrass should not be used on slopes steeper than 6H to 1V.

<sup>e</sup> Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn sideoats grama.

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**EC-2 Temporary and Permanent Seeding (TS/PS)**

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

Seeding Dates	Annual Grasses (Numbers in table reference species in Table TS/PS-1)		Perennial Grasses	
	Warm	Cool	Warm	Cool
January 1-March 15			✓	✓
March 16-April 30	4	1,2,3	✓	✓
May 1-May 15	4		✓	
May 16-June 30	4,5,6,7			
July 1-July 15	5,6,7			
July 16-August 31				
September 1-September 30		8,9,10,11		
October 1-December 31			✓	✓

**Mulch**

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

**Maintenance and Removal**

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

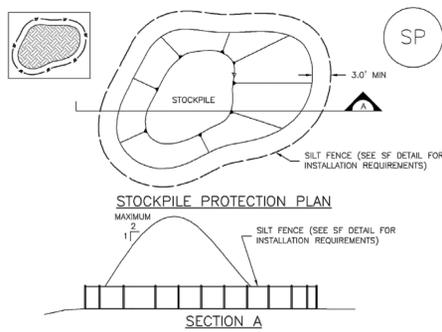
An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

Protect seeded areas from construction equipment and vehicle access.

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**Stockpile Management (SP) MM-2**



SP-1. STOCKPILE PROTECTION

**STOCKPILE PROTECTION INSTALLATION NOTES**

- SEE PLAN VIEW FOR:  
- LOCATION OF STOCKPILES  
- TYPE OF STOCKPILE PROTECTION
- INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
- STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
- FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

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**MM-2 Stockpile Management (SM)**

**STOCKPILE PROTECTION MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
- STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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**Rolled Erosion Control Products (RECP) EC-6**

Table RECP-1. ECTC Standard Specification for Temporary Rolled Erosion Control Products (Adapted from Erosion Control Technology Council 2005)

Product Description	Slope Applications*	Channel Applications*	Minimum Tensile Strength <sup>1</sup>	Expected Longevity
Mulch Control Nets	5:1 (H:V)	≤0.10 @ 5:1 Max. Shear Stress <sup>2,6</sup>	0.25 lbs/ft <sup>2</sup> (12 Pa)	5 lbs/ft (0.073 kN/m)
Netless Rolled Erosion Control Blankets	4:1 (H:V)	≤0.10 @ 4:1	0.5 lbs/ft <sup>2</sup> (24 Pa)	5 lbs/ft (0.073 kN/m)
Single-net Erosion Control Blankets & Open Weave Textiles	3:1 (H:V)	≤0.15 @ 3:1	1.5 lbs/ft <sup>2</sup> (72 Pa)	50 lbs/ft (0.73 kN/m)
Double-net Erosion Control Blankets	2:1 (H:V)	≤0.20 @ 2:1	1.75 lbs/ft <sup>2</sup> (84 Pa)	75 lbs/ft (1.09 kN/m)
Mulch Control Nets	5:1 (H:V)	≤0.10 @ 5:1	0.25 lbs/ft <sup>2</sup> (12 Pa)	25 lbs/ft (0.36 kN/m)
Erosion Control Blankets & Open Weave Textiles (slowly degrading)	1.5:1 (H:V)	≤0.25 @ 1.5:1	2.00 lbs/ft <sup>2</sup> (96 Pa)	100 lbs/ft (1.45 kN/m)
Erosion Control Blankets & Open Weave Textiles	1:1 (H:V)	≤0.25 @ 1:1	2.25 lbs/ft <sup>2</sup> (108 Pa)	125 lbs/ft (1.82 kN/m)

\* C Factor and shear stress for mulch control nettings must be obtained with netting used in conjunction with pre-applied mulch material. (See Section 5.3 of Chapter 7 Construction BMPs for more information on the C Factor.)

<sup>1</sup> Minimum Average Roll Values, Machine direction using ECTC Mod. ASTM D 5035.

<sup>2</sup> C Factor calculated as ratio of soil loss from RECP protected slope (tested at specified or greater gradient, H:V) to ratio of soil loss from unprotected (control) plot in large-scale testing.

<sup>3</sup> Required minimum shear stress RECP (unvegetated) can sustain without physical damage or excess erosion (> 12.7 mm (0.5 in) soil loss) during a 30-minute flow event in large-scale testing.

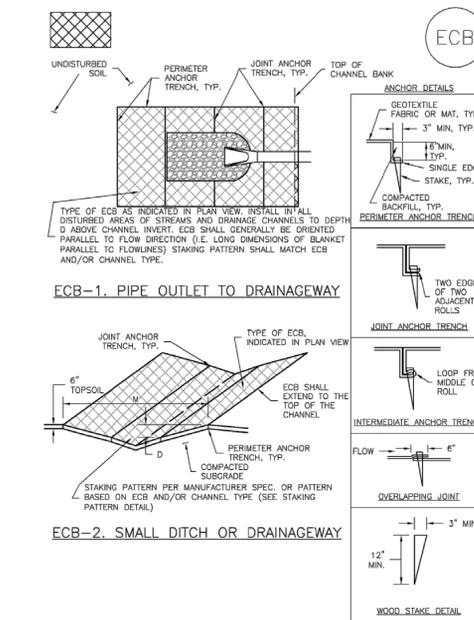
<sup>4</sup> The permissible shear stress levels established for each performance category are based on historical experience with products characterized by Manning's roughness coefficients in the range of 0.01 - 0.05.

<sup>5</sup> Acceptable large-scale test methods may include ASTM D 6459, or other independent testing deemed acceptable by the engineer.

<sup>6</sup> Per the engineer's discretion. Recommended acceptable large-scale testing protocol may include ASTM D 6460, or other independent testing deemed acceptable by the engineer.

RECP-3 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 November 2010

**EC-6 Rolled Erosion Control Products (RECP)**



RECP-6 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 November 2010

NO.	REVISION	DATE	APPR.

**Kimley»Horn**  
2021 KIMLEY-HORN AND ASSOCIATES, INC.  
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Colorado Springs, Colorado 80903 (719) 453-0180

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

WINSOME FILING NO. 3  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
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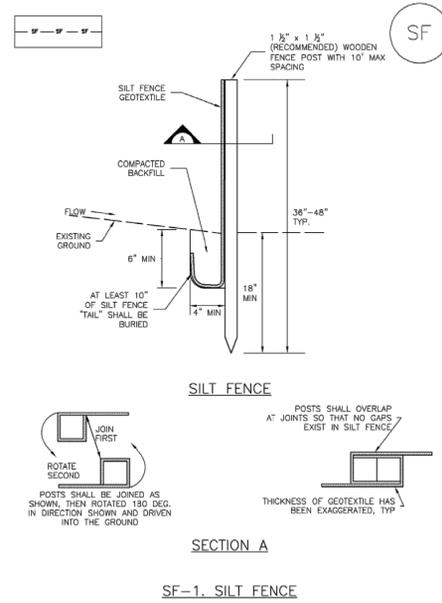
PROJECT NO.  
196106001

SHEET

C1.27

Silt Fence (SF)

SC-1



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

SC-1 Silt Fence (SF)

**SILT FENCE INSTALLATION NOTES**

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
- A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
- SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
- AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

**SILT FENCE MAINTENANCE NOTES**

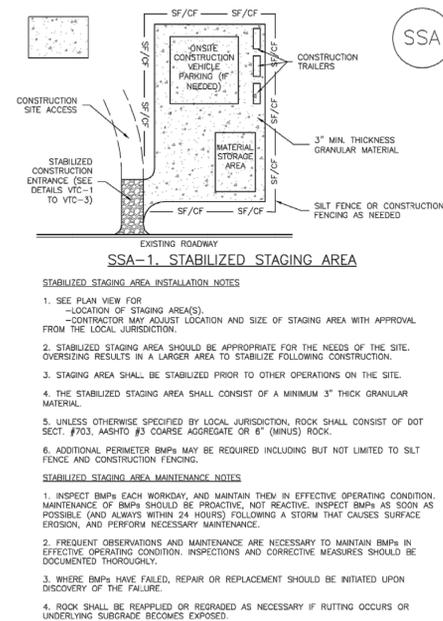
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
- WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PUEBLO, COLORADO AND CITY OF JEROME, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SF-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Stabilized Staging Area (SSA) SM-6



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-3

SM-6 Stabilized Staging Area (SSA)

**STABILIZED STAGING AREA MAINTENANCE NOTES**

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

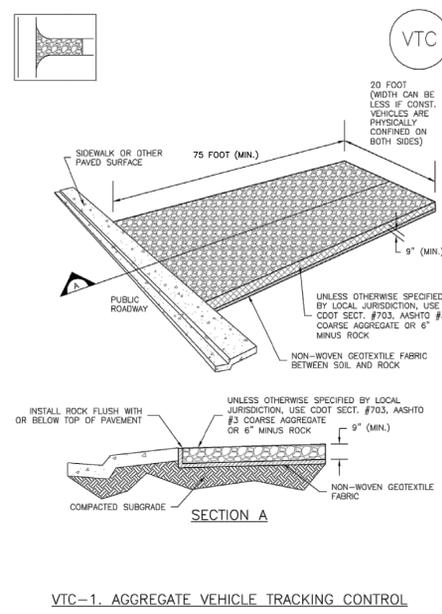
NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Vehicle Tracking Control (VTC) SM-4



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

SM-4 Vehicle Tracking Control (VTC)

**STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**

- SEE PLAN VIEW FOR -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). -TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
- CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

**STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**

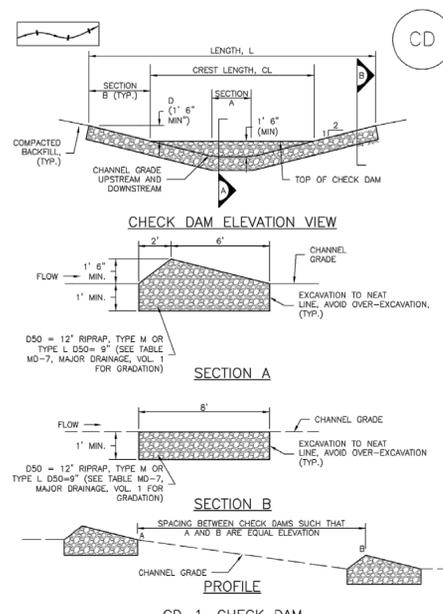
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Check Dams (CD) EC-12



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CD-3

EC-12 Check Dams (CD)

**CHECK DAM INSTALLATION NOTES**

- SEE PLAN VIEW FOR -LOCATION OF CHECK DAMS. -CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM). -LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).
- CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.
- RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").
- RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'.
- THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.

**CHECK DAM MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
- CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
- WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

CD-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

NO.	REVISION	DATE	APPR.

**Kimley»Horn**

2021 KIMLEY-HORN AND ASSOCIATES, INC.  
2 North Nevada Avenue Suite 300  
Colorado Springs, Colorado 80903 (719) 453-0180

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

WINSOME FILING NO. 3  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
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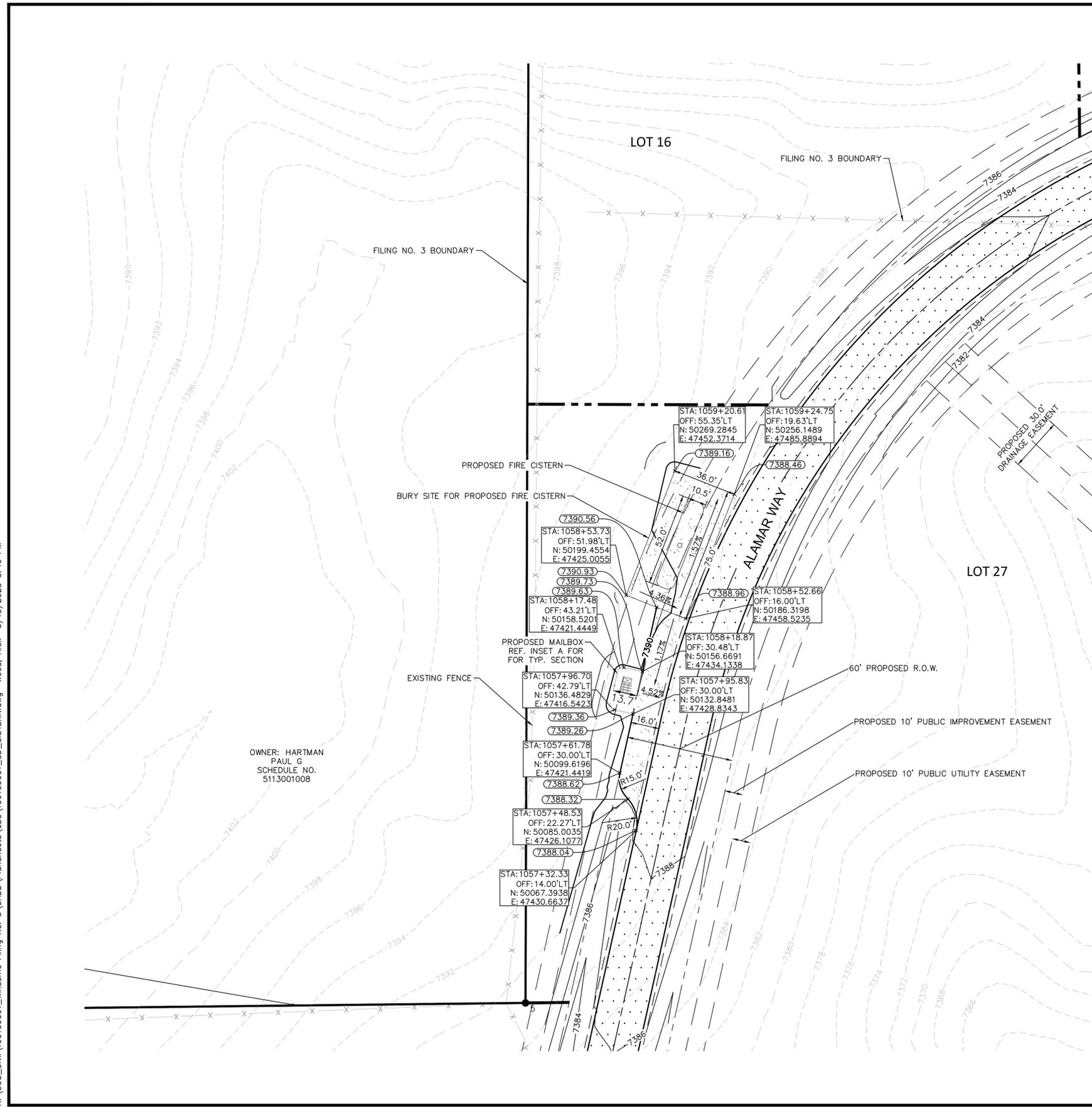
PROJECT NO.  
196106001

SHEET  
**C1.28**

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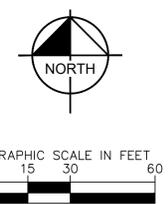
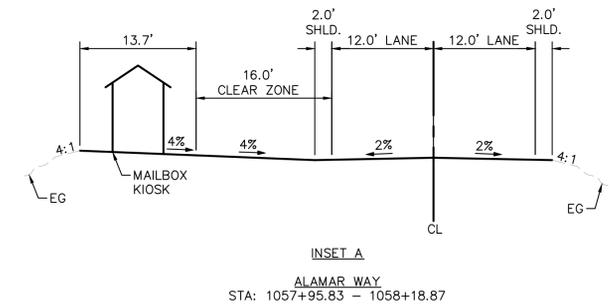
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**LEGEND**

---	LOT BOUNDARY LINE
- - - - -	EXISTING MAJOR CONTOUR
- - - - -	EXISTING MINOR CONTOUR
- - - - -	PROPOSED MAJOR CONTOUR
- - - - -	PROPOSED MINOR CONTOUR
---	EDGE OF PAVEMENT
---	ROADWAY SHOULDER
---	PROPOSED R.O.W.
---	PROPOSED EASEMENTS

- NOTES**
1. PROPOSED FIRE CISTERN WILL BE DARCO 30,000 GAL FIBERGLASS TANK AS PER FALCON FIRE.
  2. MINIMUM BURY DEPTH OF 36"
  3. TANK WILL BE INSTALLED USING SIDE HILL BURY INSTALLATION AS PER DARCO FIBERGLASS UNDERGROUND WATER STORAGE TANK INSTALLATION MANUAL.
  4. TANK AND INSTALLATION DETAILS CAN BE FOUND ON SHEET C1.31



NO.	REVISION	BY	DATE
2	RESUBMITTAL #2	KRK	11/30/22
1	RESUBMITTAL #1	KRK	8/30/22

**Kimley»Horn**  
 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
 2 North Nevada Avenue Suite 300  
 Colorado Springs, Colorado 80903 (719) 453-0180

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

**WINSOME FILING NO. 3  
 EL PASO COUNTY, COLORADO  
 PRE DEVELOPMENT GESC PLAN  
 FIRE CISTERN PLAN**

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PROJECT NO.  
196106001

SHEET  
**C1.30**

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TO: FIRM Falcon Fire Protection District PROJECT Falcon FD Minimum Draft QUOTE # AD7205-R2 DATE 09.18.08  
 PHONE: FAX: EMAIL: SITE LOCATION Falcon Fire District COUNTY El Paso  
 STANDARD D-5 NOM. CAPACITY 30,000 NOM. WEIGHT 8,000 POTABLE NON-POTABLE X USE Fire Cistern

**INCLUDED WITH THIS FIBERGLASS UNDERGROUND TANK QUOTATION**

1 - 30"x36" manway-hinged or bolted cover 19 - NFPA anti-vortex plate on draw pipe  
 6 - 4" lockable inspection hatch on manway 25 - Water level gauge (reads in inches)  
 13 - 6" PVC vent head-screens  
 15 - High water level control assembly  
 17 - Siamese refill w/2-2.5" NST-FS connections  
 18 - 6" NST-F dry hydrant head

**PREPAID PRICE**  
 \$ TAX ADD 2.9% DEPOSIT 33% with order  
 FREIGHT DETAILS ESTIMATED to Falcon, CO  
 DELIVERY: 8-10 WEEKS FROM ORDER ACCEPTANCE

**EXCLUDED IN THIS PRICE QUOTATION**

1. INSPECTION, ACCEPTANCE, AND OFFLOAD  
 2. INSTALLATION MATERIALS AND LABOR  
 3. UNSPECIFIED PIPE, VALVES, AND FITTINGS  
 4. PUMPS, CONTROLS, AND LEVEL SENSORS  
 5. WIRE ROPE, CLAMPS, AND DEADMAN ANCHOR FORMS  
 6.

BURY DETAILS 36" typical-rated for 60" bury depth WATER SOURCE  
 APPROVALS Local Fire District

ANTIBUOYANCY  
 COMMENTS: Minimum draft design.

**NOTES:**  
 IMPORTANT: REVIEW DARCO STRUCTURAL SPECIFICATIONS AND LIMITED WARRANTY BEFORE APPROVAL / GRAVEL BED AND 100% GRAVEL ENCAPSULATION REQUIRED / MAXIMUM BURY DEPTH FOR STANDARD FIBERGLASS VESSELS IS 5 FEET / SEE DARCO WEB SITE FOR INSTALLATION DETAILS AND APPROVED MATERIALS / FIRE SERVICE DESIGNS MUST HAVE PRIOR FIRE DEPARTMENT APPROVAL / DARCO FACTORY QUOTES ARE HONORED FOR 30 DAYS ONLY

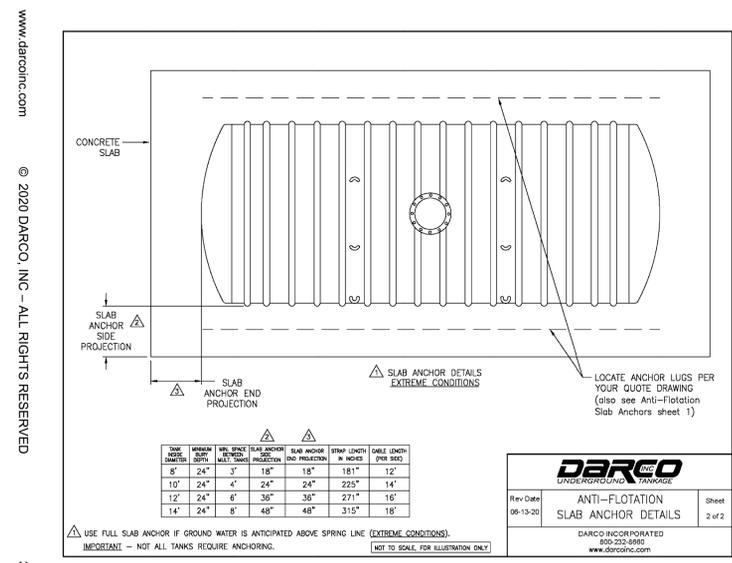
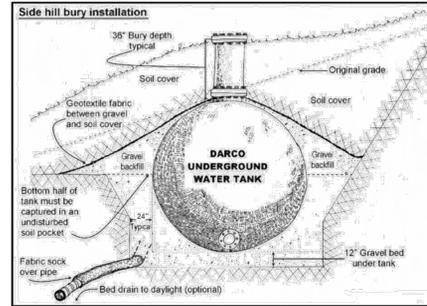
DARCO FIBERGLASS TANK - 10D - 30K (30,000 Gal.)  
 Rev. Date: 12/12/08  
 980 Darco Drive, Bennett, Colorado 80102  
 800-232-9660 (phone) 303-644-5001 (fax)  
 www.darcoinc.com

APPROVED: DATE: PAID MANUAL RELEASE

Chief Trent Horwig / Deputy Chief Jeff Petersma

**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.



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**INTRODUCTION**

NO.	REVISION	DATE	BY	DATE	APPR.
1					
2					

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 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
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 Colorado Springs, Colorado 80903 (719) 453-0180

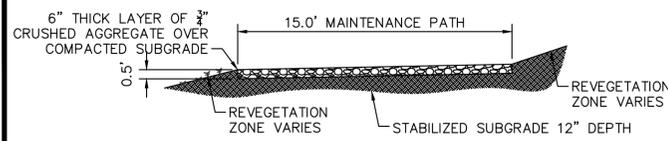
DESIGNED BY: KRK  
 DRAWN BY: A.J.  
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WINSOME FILING NO. 3  
 EL PASO COUNTY, COLORADO  
 PRE DEVELOPMENT GESC PLAN  
 FIRE CISTERN DETAILS

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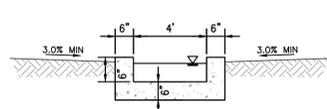
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**C1.31**





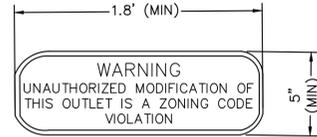
**1 MAINTENANCE ROAD**

1"=5'  
**MAINTENANCE PATH NOTES**  
 1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.



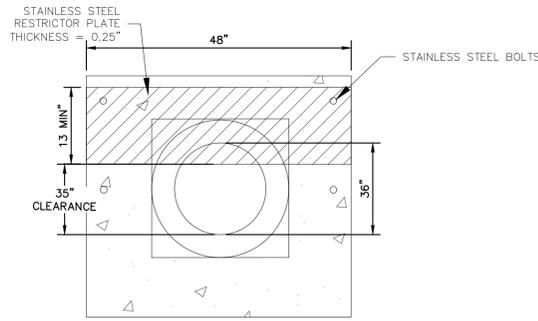
**2 CONCRETE TRICKLE CHANNEL**

N.T.S.



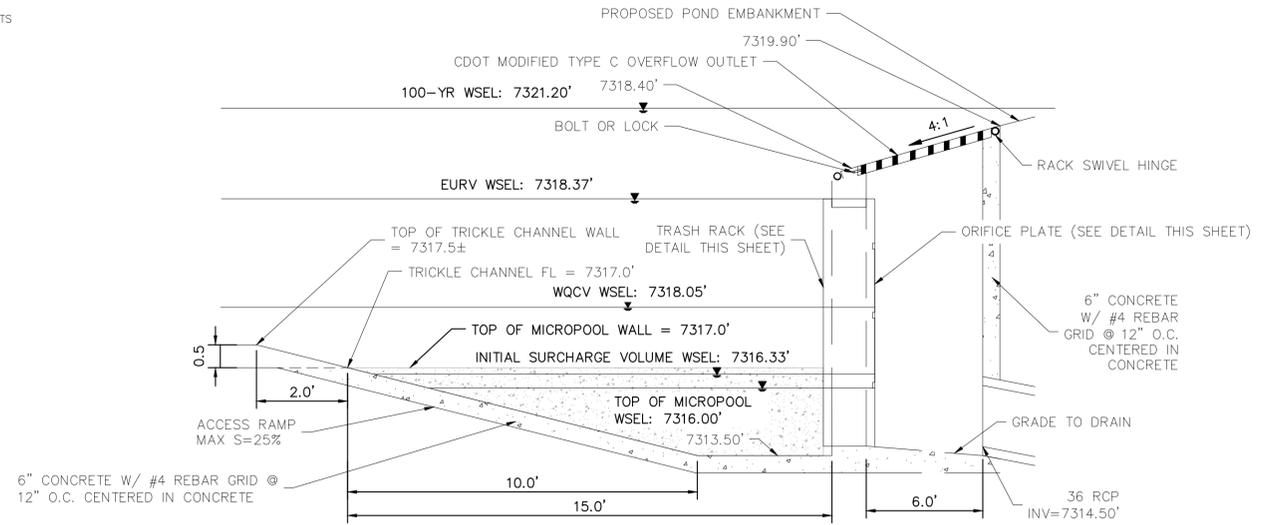
**3 OUTLET SIGNAGE**

N.T.S.  
**OUTLET SIGNAGE NOTES**  
 1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.



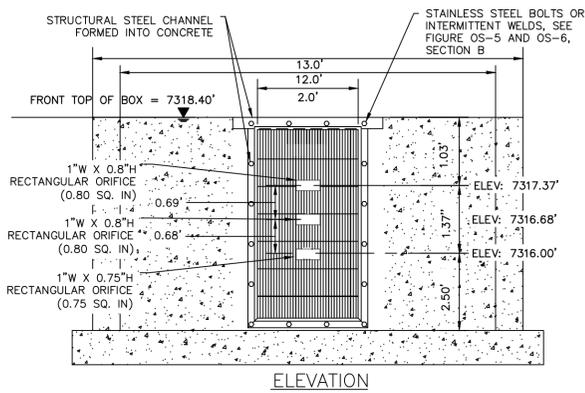
**5 100-YEAR FLOW RESTRICTOR B**

N.T.S.



**7 OUTLET STRUCTURE DETAIL**

N.T.S.



**4 ORIFICE PLATE AND TRASH RACK DETAIL**

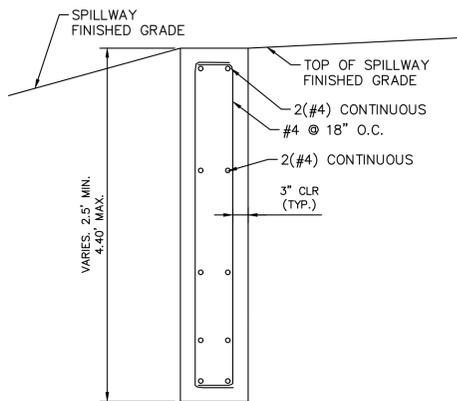
N.T.S.  
**ORIFICE PLATE NOTES**  
 1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.  
 2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

**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 HARDWARE.

**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.



**6 SECTION CREST WALL DETAIL**

N.T.S.

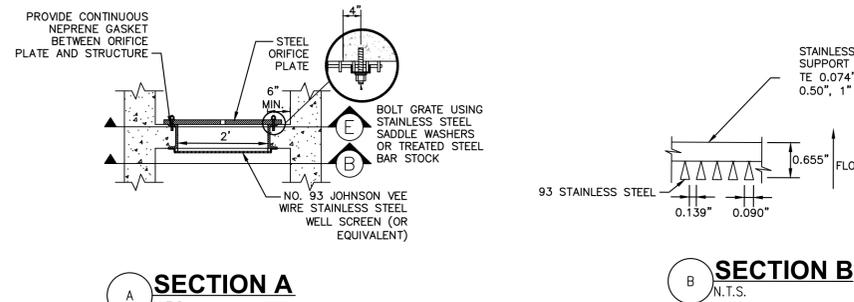
**RIPRAP NOTES:**

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

Table 506-2

Pay Item	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)
Riprap	6	70-100	12	85
		50-70	9	35
		35-50	6	10
		2-10	2	0.4
Riprap	9	70-100	15	160
		50-70	12	85
		35-50	9	35
		2-10	3	1.3
Riprap	12	70-100	21	440
		50-70	18	275
		35-50	12	85
		2-10	4	3
Riprap	18	100	30	1280
		50-70	24	650
		35-50	18	275
		2-10	6	10
Riprap	24	100	42	3500
		50-70	33	1700
		35-50	24	650
		2-10	9	35

<sup>1</sup>d50 = nominal stone size  
<sup>2</sup>based on typical rock mass  
<sup>3</sup>equivalent spherical diameter  
<sup>4</sup>based on a specific gravity = 2.5

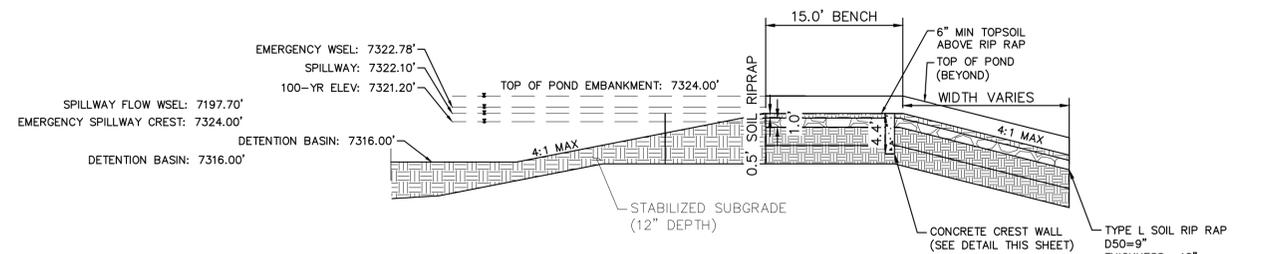


**A SECTION A**

N.T.S.

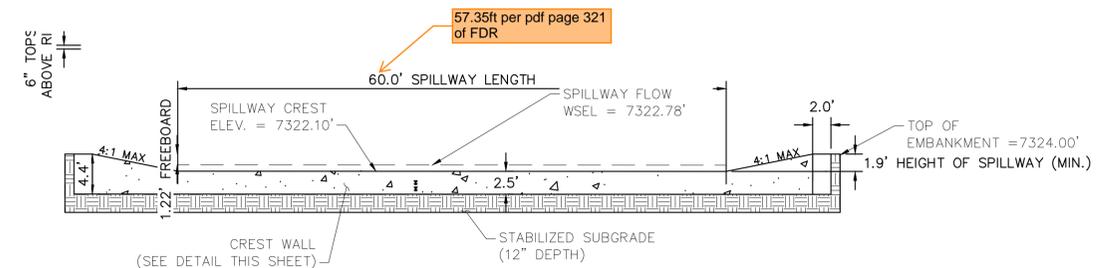
**B SECTION B**

N.T.S.



**8 EMERGENCY SPILLWAY DETAILS**

1"=10'

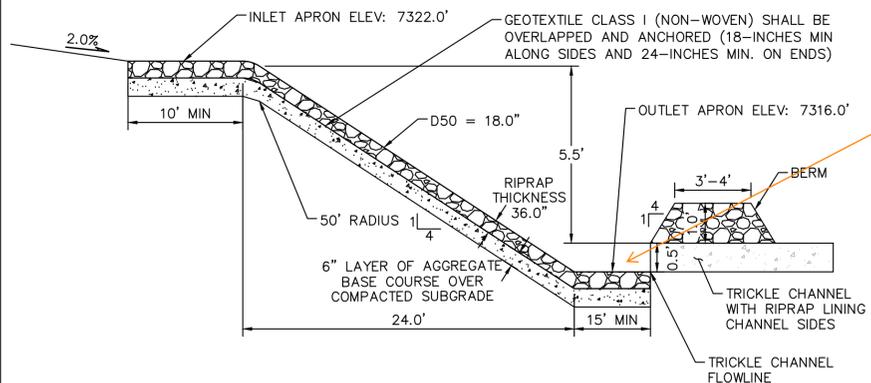


**9 EMERGENCY SPILLWAY**

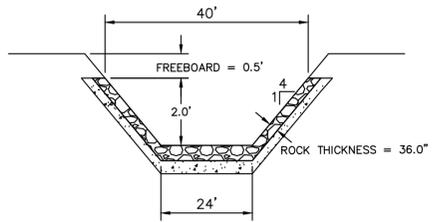
1"=10'

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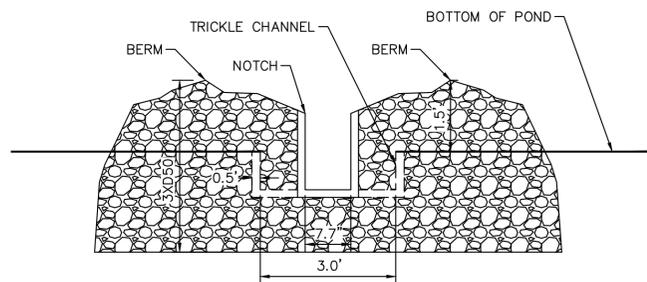




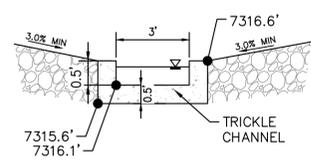
10 ROCK CHUTE #4 PROFILE- CROSS SECTION 1  
 N.T.S.



11 ROCK CHUTE #4 PROFILE- CROSS SECTION 2  
 N.T.S.

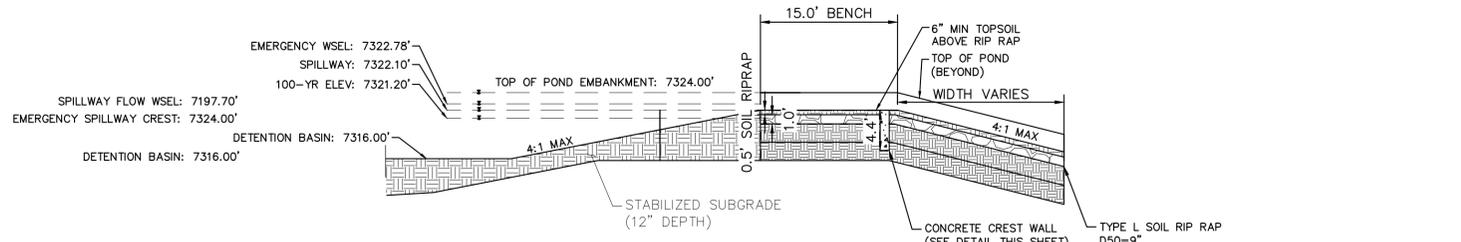


12 ROCK CHUTE #4 PROFILE- CROSS SECTION 2  
 N.T.S.



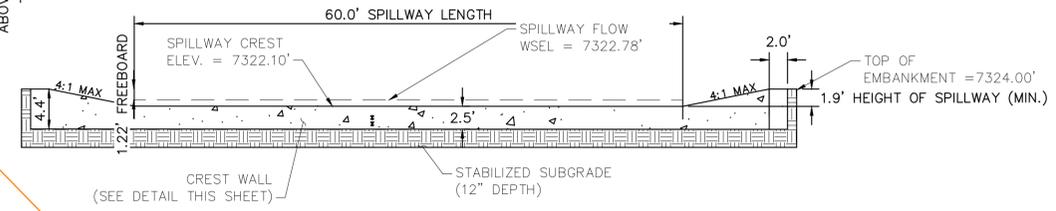
13 ROCK CHUTE TO TRICKLE CHANNEL TRANSITION  
 N.T.S.

Per previous comment in Review #1, MHFD recommends that the "floor of forebays should be concrete or lined with grouted boulders to define sediment removal limits."  
 Typical comment for all forebays.

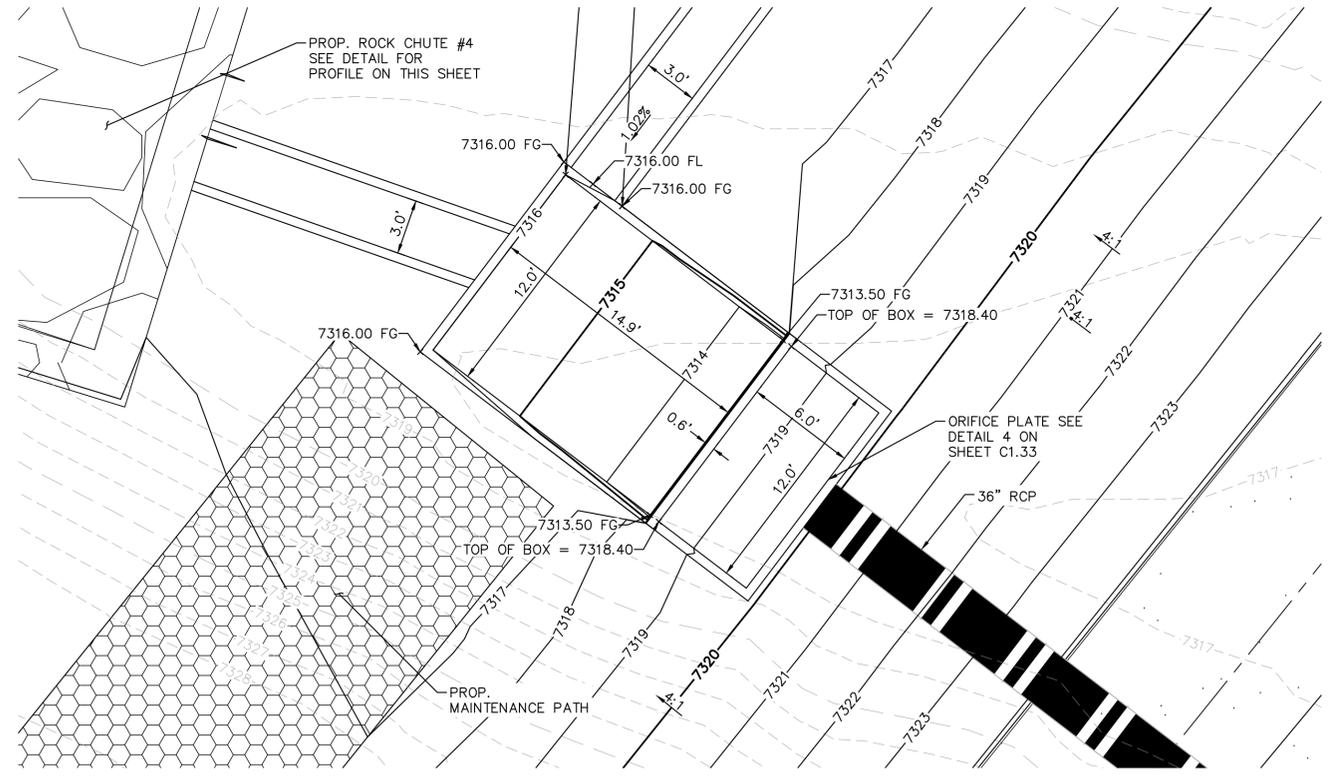


14 EMERGENCY SPILLWAY DETAILS  
 1"=10'

Duplicate details already on previous sheet. I think that they can be deleted.



15 EMERGENCY SPILLWAY  
 1"=10'



16 OUTLET STRUCTURE PLAN VIEW DETAIL  
 1"=5'

Rock Chute ID	Channel Location	Flow (cfs)	Upstream Inlet Apron Length (ft)	Drop (ft) (Inlet Apron to Outlet Apron)	Chute Length (ft)	Downstream Outlet Apron Length (ft)	Chute Width (ft)	D50 (in)	Rock Chute Thickness (in)	Radius (ft)	Min Rock Chute Depth (ft)	Rock Chute Depth (ft)	Top Chute Width (ft)
4	Pond 1	107	10	6	24	15	24	18	36	50	1.27	1.50	40
6	Pond 2	110	10	8	32	18	17	18	36	50	1.57	2.00	33
11	Pond 4	26	10	10	40	11	10	9	18	25	0.85	1.50	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	1.50	26

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

1. SEE GRADING PLANS FOR ROCK CHUTE LOCATIONS

Review these zoomed in Plan details for all ponds as they are all new with this submittal.

K:\COS\_Civil\196106001\_Winsome Filing No. 3\CADD\PlanSheets\CDS\196106001\_CD\_POND\_1.dwg Wood, Alex 3/15/2023 3:47 PM



NO.	REVISION	BY	DATE	APPR.

**Kimley-Horn**  
 2021 KIMLEY-HORN AND ASSOCIATES, INC.  
 2 North Nevada Avenue Suite 300  
 Colorado Springs, Colorado 80903 (719) 453-0180

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

WINSOME FILING NO. 3  
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 POND 1 DETAILS

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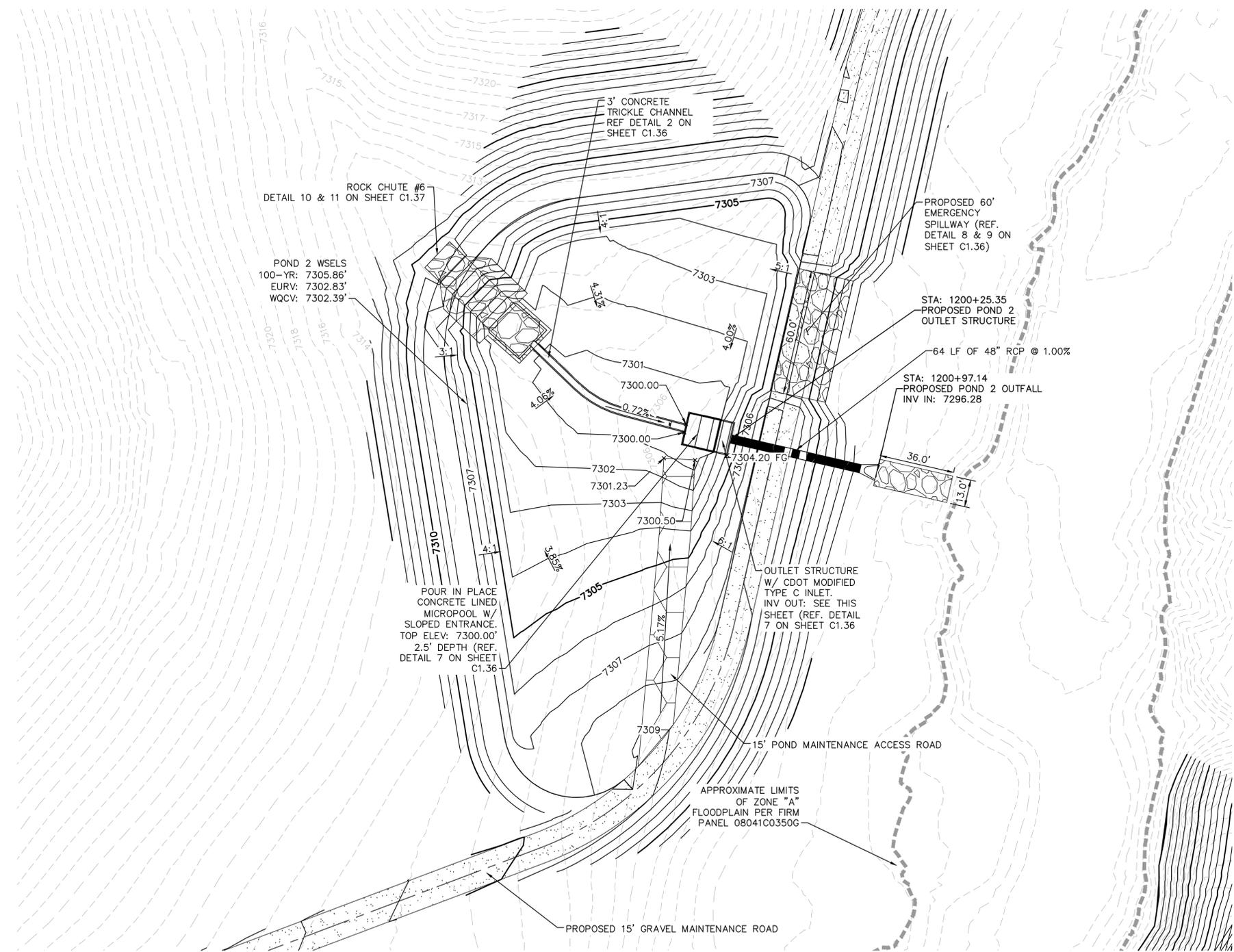
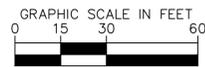
SHEET

C1.34

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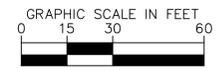
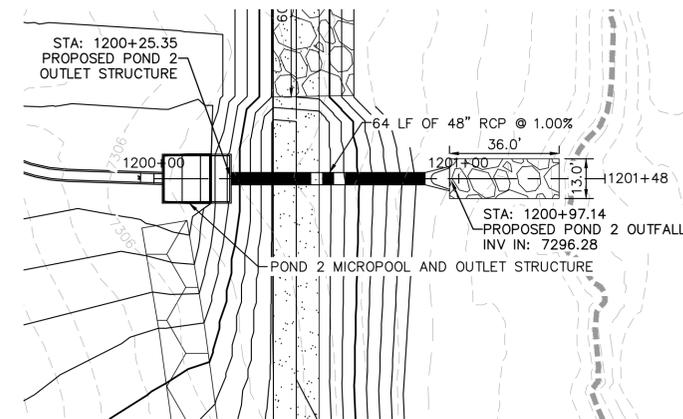


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CALL 2-BUSINESS DAYS IN ADVANCE  
BEFORE YOU DIG, GRADE, OR EXCAVATE  
FOR THE MARKING OF UNDERGROUND  
NEARBY UTILITIES

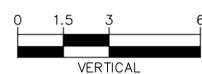
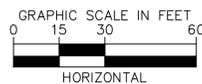
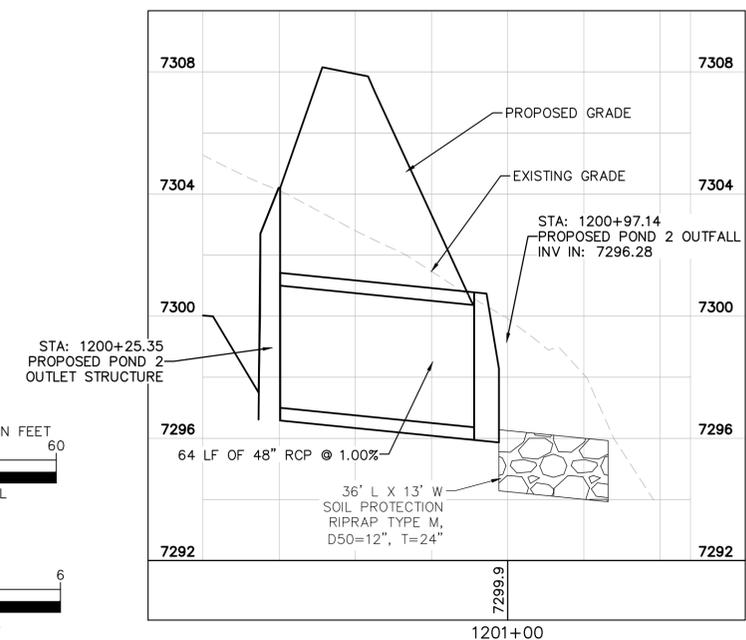


**LEGEND**

FG	FINISH GRADE
FBT	TOP OF FOREBAY AT FINISHED GRADE
FBB	BOTTOM OF FOREBAY AT FINISHED GRADE
TCT	TOP OF TRICKLE CHANNEL AT FINISHED GRADE
TCB	BOTTOM OF TRICKLE CHANNEL AT FINISHED GRADE
MPT	TOP OF MICROPOOL AT FINISHED GRADE
MPB	BOTTOM OF MICROPOOL AT FINISHED GRADE
GRATE	OUTLET STRUCTURE GRATE ELEVATION
ME	MATCH EXISTING
PT	TOP OF STEEL PLATE AT FINISHED GRADE
PB	BOTTOM OF STEEL PLATE AT FINISHED GRADE
---	FLOODPLAIN LIMITS
---	TOP OF POND
---	PROPOSED STORM SEWER



**POND 2 OUTLET PIPE PLAN AND PROFILE**



NO.	REVISION	BY	DATE	APPR.

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Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK  
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DATE: 12/16/2021

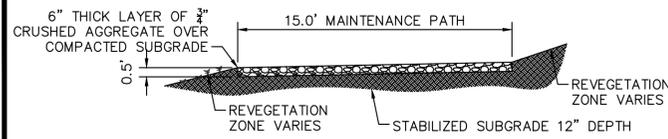
WINSOME FILING NO. 3  
EL PASO COUNTY, COLORADO  
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POND 2 OVERVIEW

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196106001

SHEET  
**C1.35**

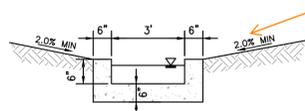
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**1 MAINTENANCE ROAD**

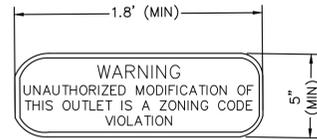
1"=5'  
**MAINTENANCE PATH NOTES**  
 1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.

**Unresolved Review 1 comment:**  
 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.



**2 CONCRETE TRICKLE CHANNEL**

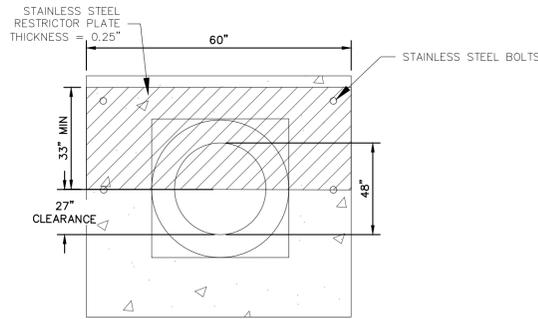
N.T.S.



**3 OUTLET SIGNAGE**

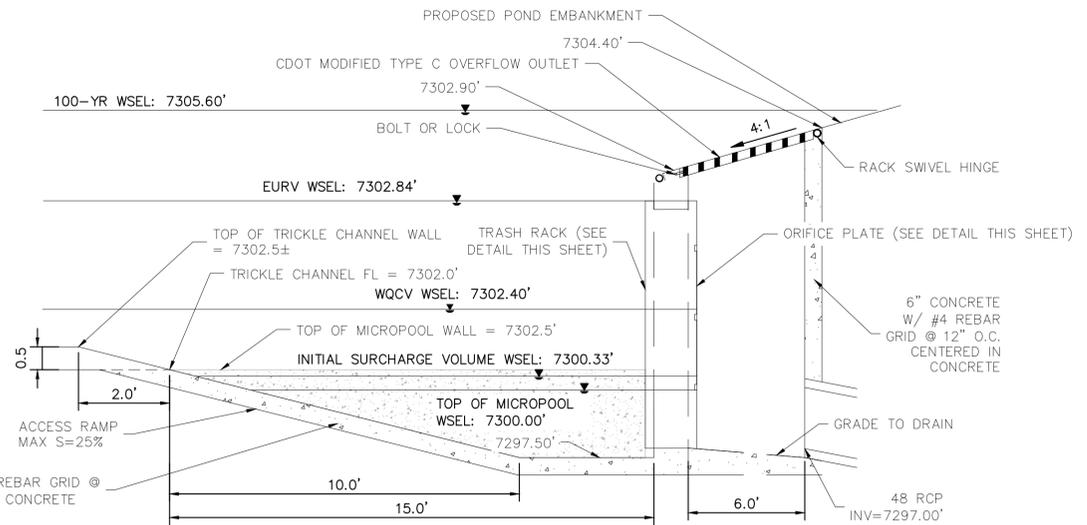
N.T.S.

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



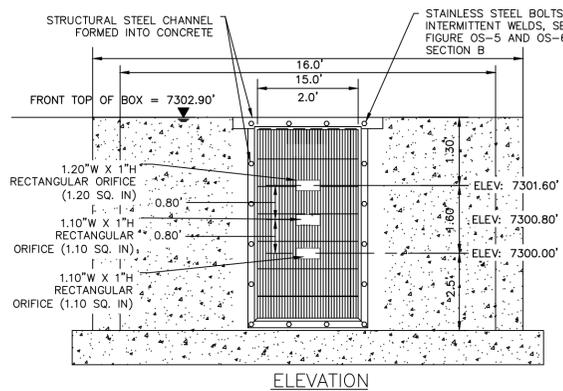
**5 100-YEAR FLOW RESTRICTOR B**

N.T.S.



**7 OUTLET STRUCTURE DETAIL**

N.T.S.



**4 ORIFICE PLATE AND TRASH RACK DETAIL**

N.T.S.

**ORIFICE PLATE NOTES**

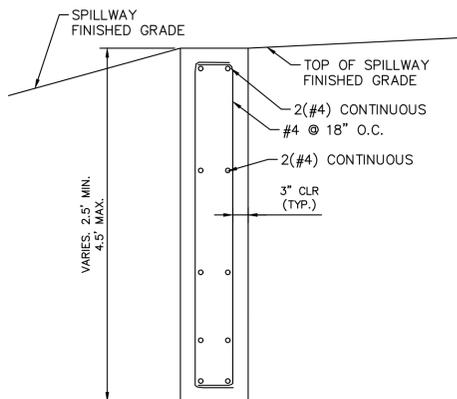
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

**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 HARDWARE.
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 (R VALUE).
4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

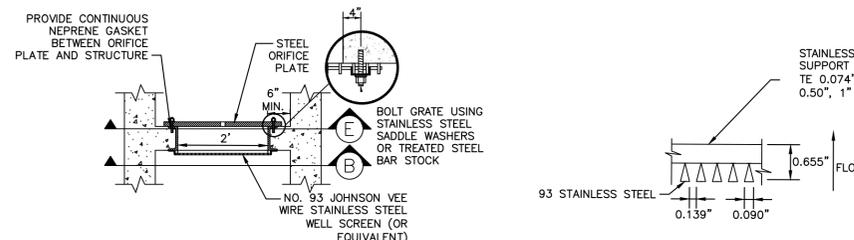
**OVERFLOW SAFETY GRATES**

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.
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**6 SECTION CREST WALL DETAIL**

N.T.S.



**A SECTION A**

N.T.S.

**B SECTION B**

N.T.S.

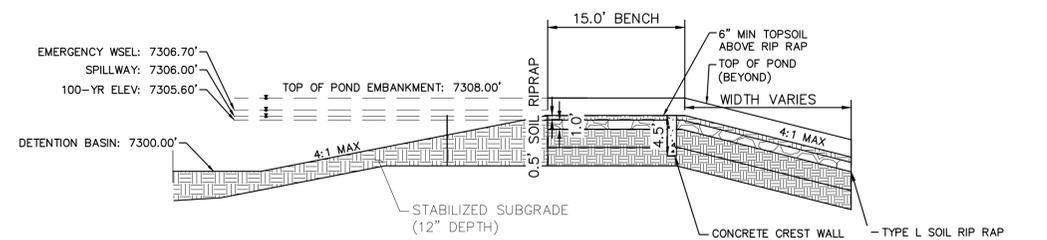
**RIPRAP NOTES:**

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

**Table 506-2**

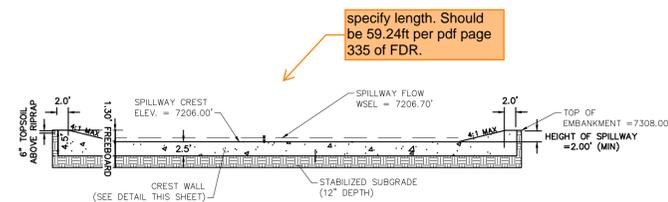
Pay Item	Stone Size d50 <sup>1</sup> (Inches)	Percent of Material Smaller Than Typical Stone <sup>2</sup>	Typical Stone Dimensions <sup>3</sup> (Inches)	Typical Stone Weight <sup>4</sup> (Pounds)
Riprap	6	70-100	12	85
		50-70	9	35
		35-50	6	10
Riprap	9	70-100	15	160
		50-70	12	85
		35-50	9	35
Riprap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

<sup>1</sup>d50 = nominal stone size  
<sup>2</sup>based on typical rock mass  
<sup>3</sup>equivalent spherical diameter  
<sup>4</sup>based on a specific gravity = 2.5



**8 EMERGENCY SPILLWAY DETAILS**

1"=10'



**9 EMERGENCY SPILLWAY**

1"=10'



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

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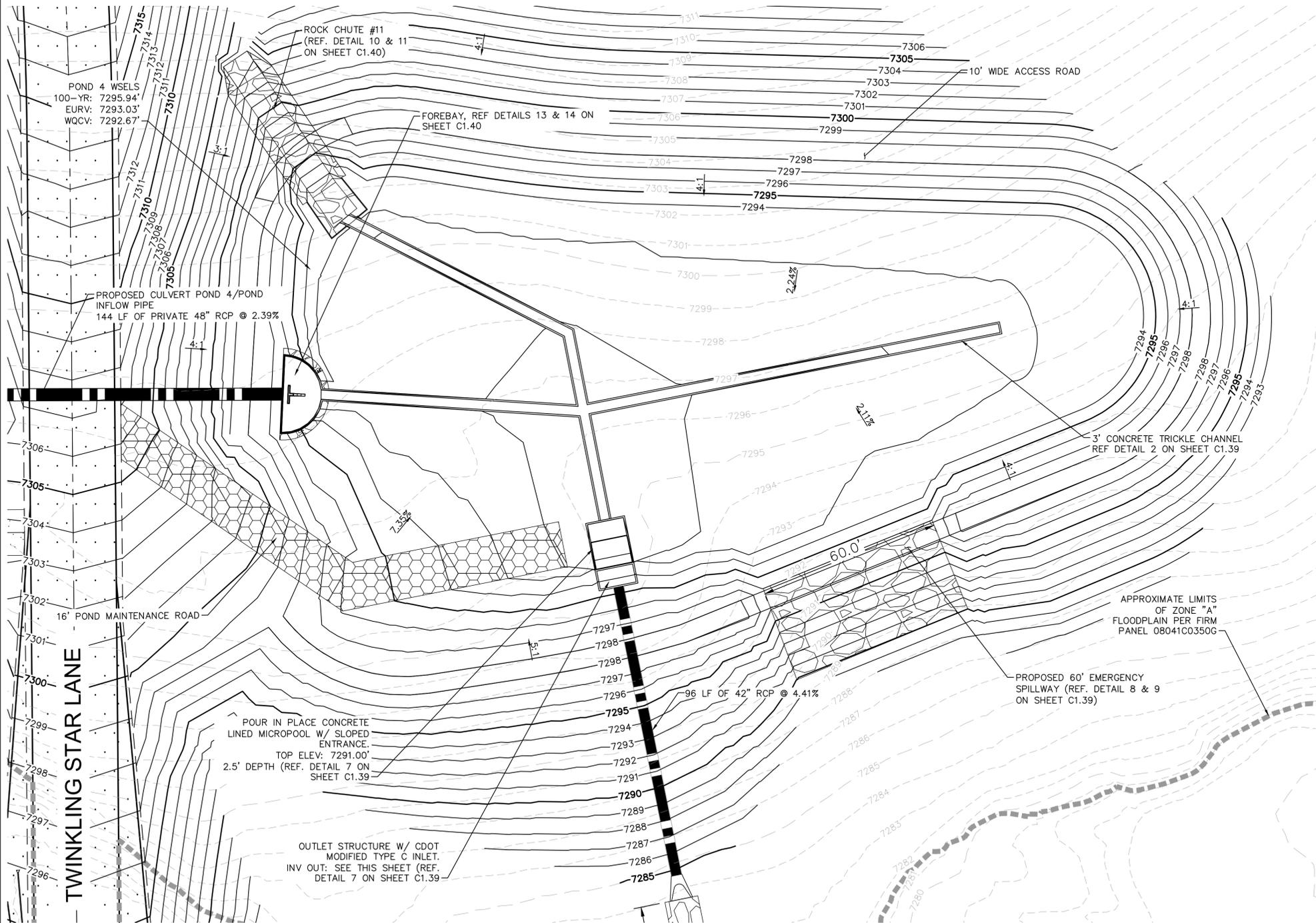
PROJECT NO.  
 196106001

SHEET

C1.36

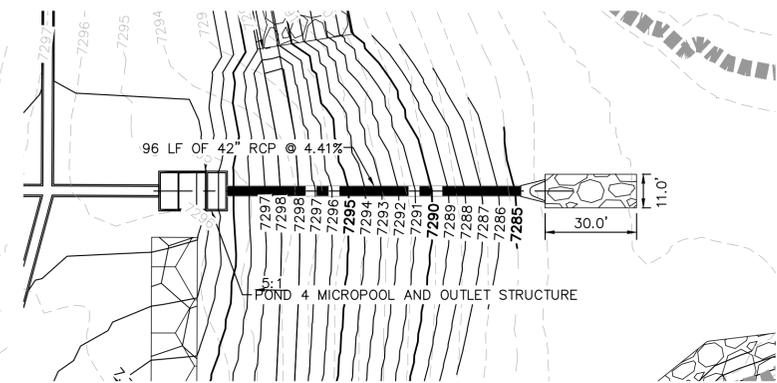


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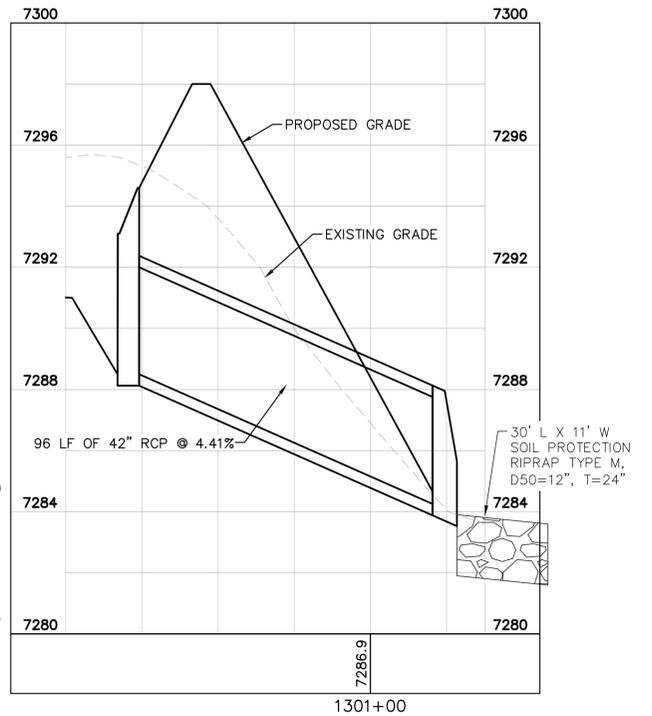


**LEGEND**

FG	FINISH GRADE
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ME	MATCH EXISTING
PT	TOP OF STEEL PLATE AT FINISHED GRADE
PB	BOTTOM OF STEEL PLATE AT FINISHED GRADE
-----	FLOODPLAIN LIMITS
-----	TOP OF POND
-----	PROPOSED STORM SEWER



POND 4 OUTLET PIPE PLAN AND PROFILE



CALL UTILITY NOTIFICATION  
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CALL 2-BUSINESS DAYS IN ADVANCE  
BEFORE YOU DIG, GRADE, OR EXCAVATE  
FOR THE MARKING OF UNDERGROUND  
MEMBER UTILITIES

NO.	REVISION	BY	DATE	APPR.

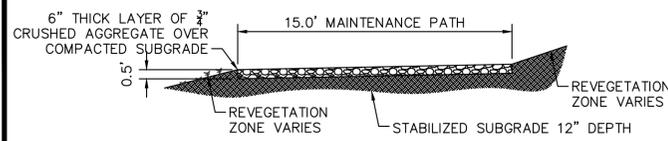
**Kimley»Horn**  
2021 KIMLEY-HORN AND ASSOCIATES, INC.  
2 North Nevada Avenue Suite 300  
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK  
DRAWN BY: A.JL  
CHECKED BY: KRK  
DATE: 12/16/2021

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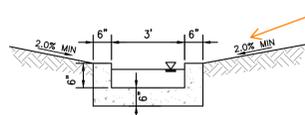
PROJECT NO.  
196106001  
SHEET  
**C1.38**



**1 MAINTENANCE ROAD**

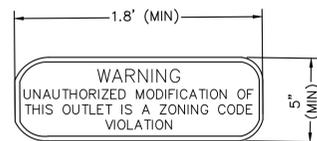
1"=5'  
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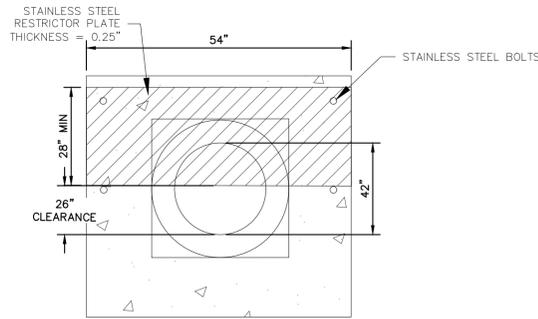
N.T.S.



**3 OUTLET SIGNAGE**

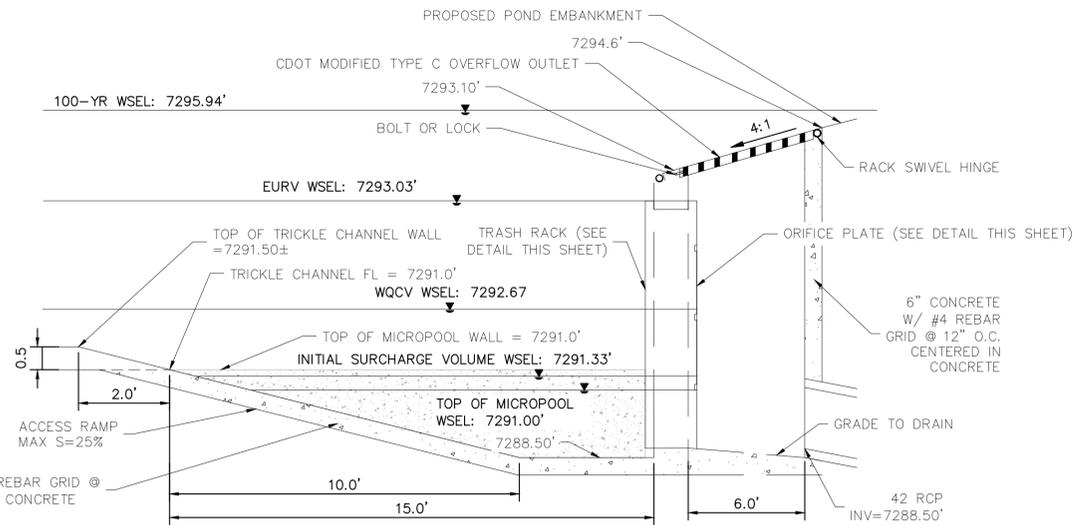
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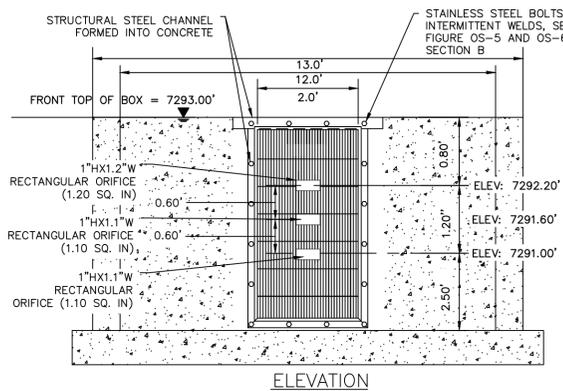
**5 100-YEAR FLOW RESTRICTOR B**

N.T.S.



**7 OUTLET STRUCTURE DETAIL**

N.T.S.



**4 ORIFICE PLATE AND TRASH RACK DETAIL**

N.T.S.

**ORIFICE PLATE NOTES**

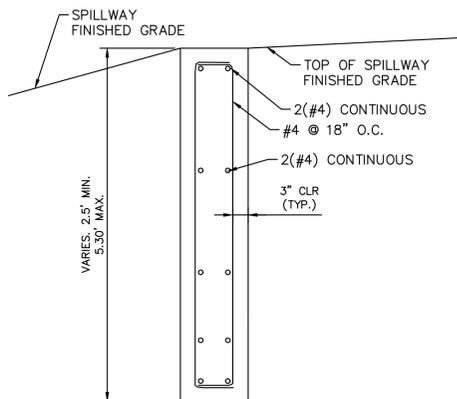
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**6 SECTION CREST WALL DETAIL**

N.T.S.

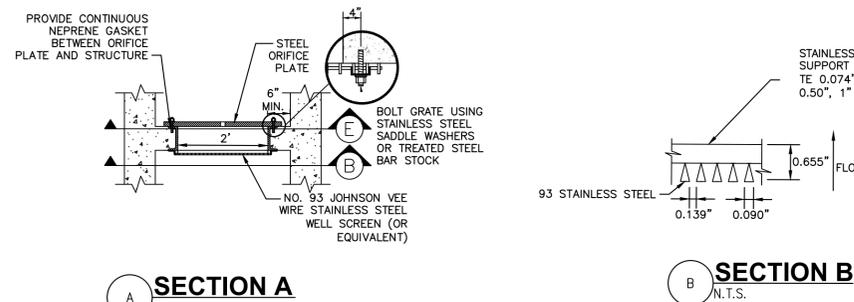
**RIPRAP NOTES:**

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

Table 506-2

Pay Item	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)
Riprap	6	70-100	12	85
		50-70	9	35
		35-50	6	10
Riprap	9	70-100	15	160
		50-70	12	85
		35-50	9	35
Riprap	12	70-100	21	440
		50-70	18	275
		35-50	12	85
Riprap	18	100	30	1280
		50-70	24	650
		35-50	18	275
Riprap	24	100	42	3500
		50-70	33	1700
		35-50	24	650
		2-10	9	35

<sup>1</sup>d50 = nominal stone size  
<sup>2</sup>based on typical rock mass  
<sup>3</sup>equivalent spherical diameter  
<sup>4</sup>based on a specific gravity = 2.5

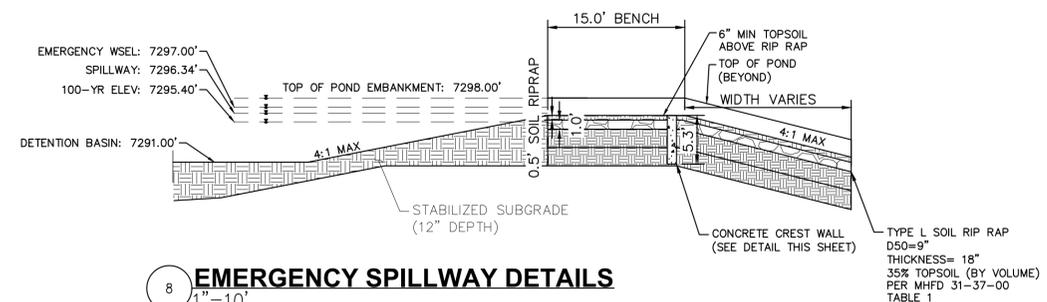


**A SECTION A**

N.T.S.

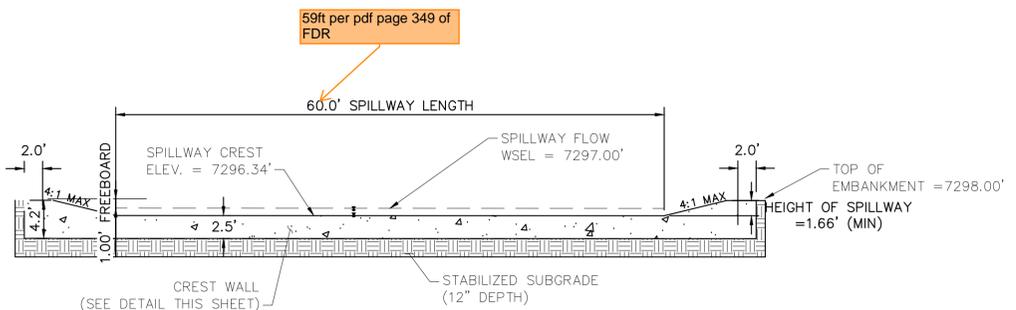
**B SECTION B**

N.T.S.



**8 EMERGENCY SPILLWAY DETAILS**

1"=10'

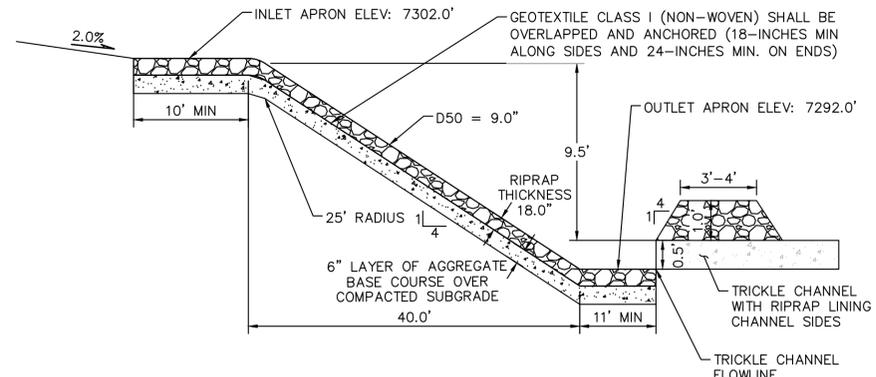


**9 EMERGENCY SPILLWAY**

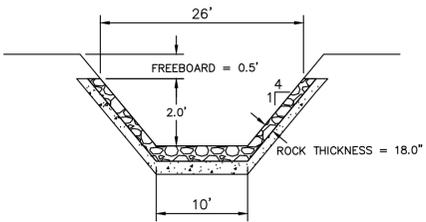
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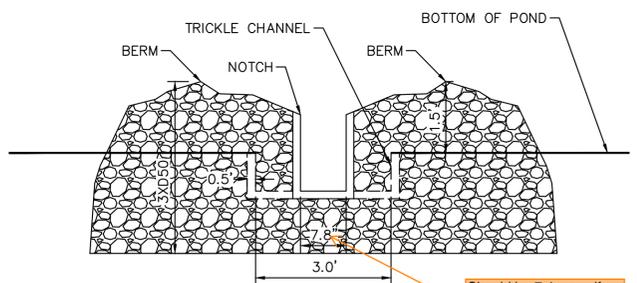
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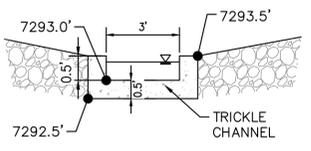
10 **ROCK CHUTE #11 PROFILE- CROSS SECTION 1**  
N.T.S.



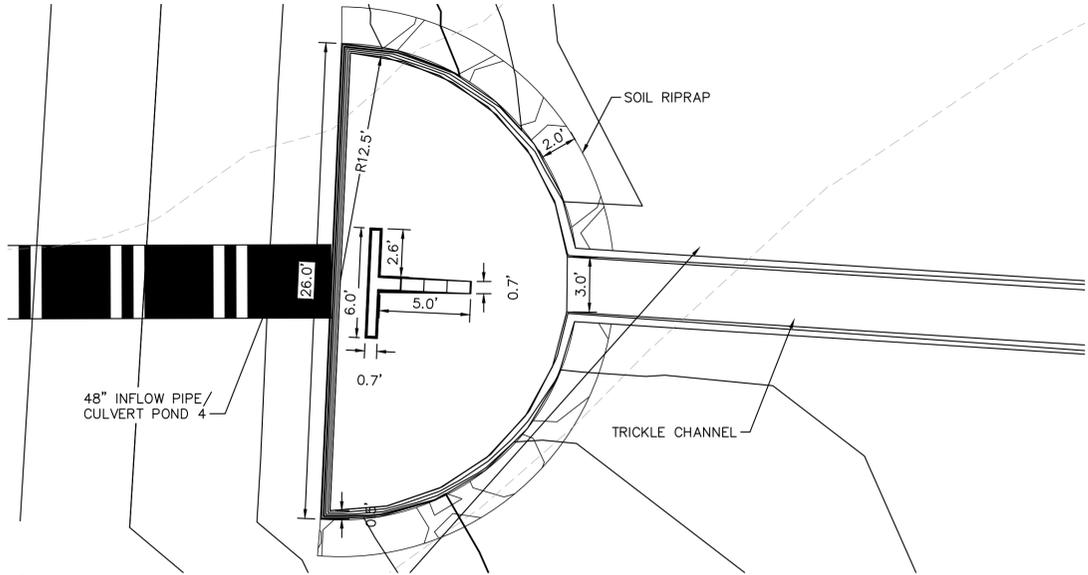
11 **ROCK CHUTE #11 PROFILE- CROSS SECTION 2**  
N.T.S.



11 **ROCK CHUTE #11 PROFILE- CROSS SECTION 2**  
N.T.S.

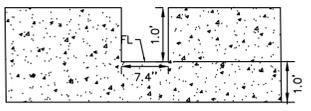


12 **ROCK CHUTE TO TRICKLE CHANNEL TRANSITION**  
N.T.S.

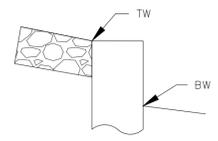


13 **FOREBAY DETAIL PLAN VIEW**  
1"=5'

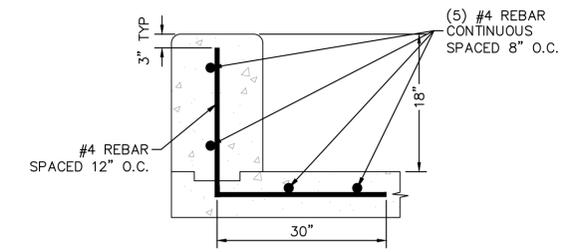
- RETAINING WALL NOTES
1. TW = FINISHED GRADE AT TOP OF WALL
  2. BW = FINISHED GRADE AT BOTTOM OF WALL
  3. SEE DETAIL THIS SHEET FOR FOREBAY DIMENSIONS AND CROSS-SECTION.



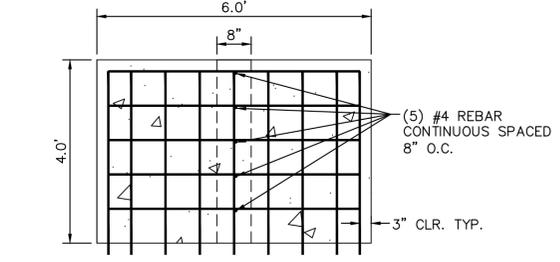
A **FOREBAY NOTCH DETAIL**  
N.T.S.



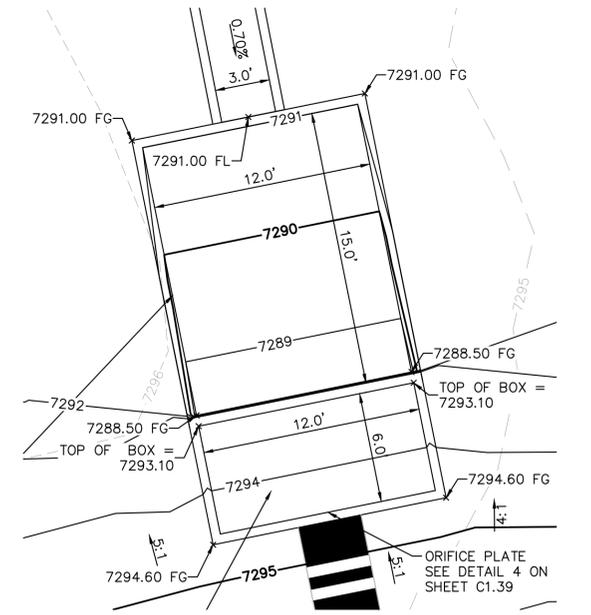
B **SECTION A-A FOREBAY WALL WITH REINFORCING**  
N.T.S.



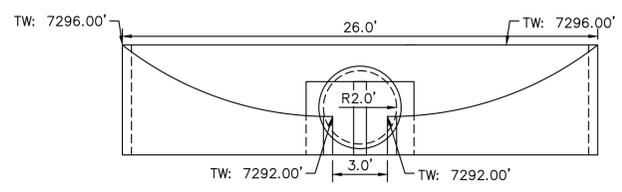
D **FOREBAY WALL CROSS SECTION**  
N.T.S.



C **FOREBAY DISSIPATER DETAIL**  
1"=2'



14 **OUTLET STRUCTURE PLAN VIEW DETAIL**  
1"=5'



13 **FOREBAY SECTION VIEW**  
1"=5'

- RETAINING WALL NOTES
1. TW = FINISHED GRADE AT TOP OF WALL
  2. BW = FINISHED GRADE AT BOTTOM OF WALL
  3. SEE DETAIL THIS SHEET FOR FOREBAY DIMENSIONS AND CROSS-SECTION.

Rock Chute ID	Channel Location	Flow (cfs)	Upstream Inlet Apron Length (ft)	Drop (ft) (Inlet Apron to Outlet Apron)	Chute Length (ft)	Downstream Outlet Apron Length (ft)	Chute Width (ft)	D50 (in)	Rock Chute Thickness (in)	Rock Chute Radius (ft)	Min Rock Chute Depth (ft)	Rock Chute Depth (ft)	Top Chute Width (ft)
4	Pond 1	107	10	6	24	15	24	18	36	50	1.27	1.50	40
6	Pond 2	110	10	8	32	18	17	18	36	50	1.57	2.00	33
11	Pond 4	26	10	10	40	11	10	9	18	25	0.85	1.50	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	1.50	26

15 **STANDARD ROCK CHUTE DIMENSION TABLE**  
N.T.S.

1. SEE GRADING PLANS FOR ROCK CHUTE LOCATIONS



NO.	REVISION	BY	DATE	APPR.

**Kimley»Horn**  
2021 KIMLEY-HORN AND ASSOCIATES, INC.  
2 North Nevada Avenue Suite 300  
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK  
DRAWN BY: A.JL  
CHECKED BY: KRK  
DATE: 12/16/2021

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

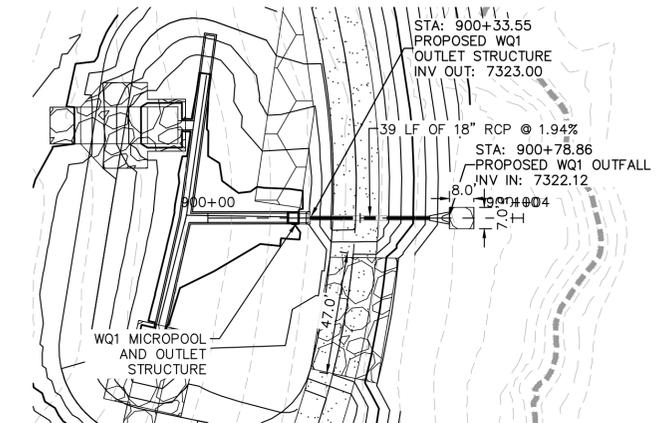
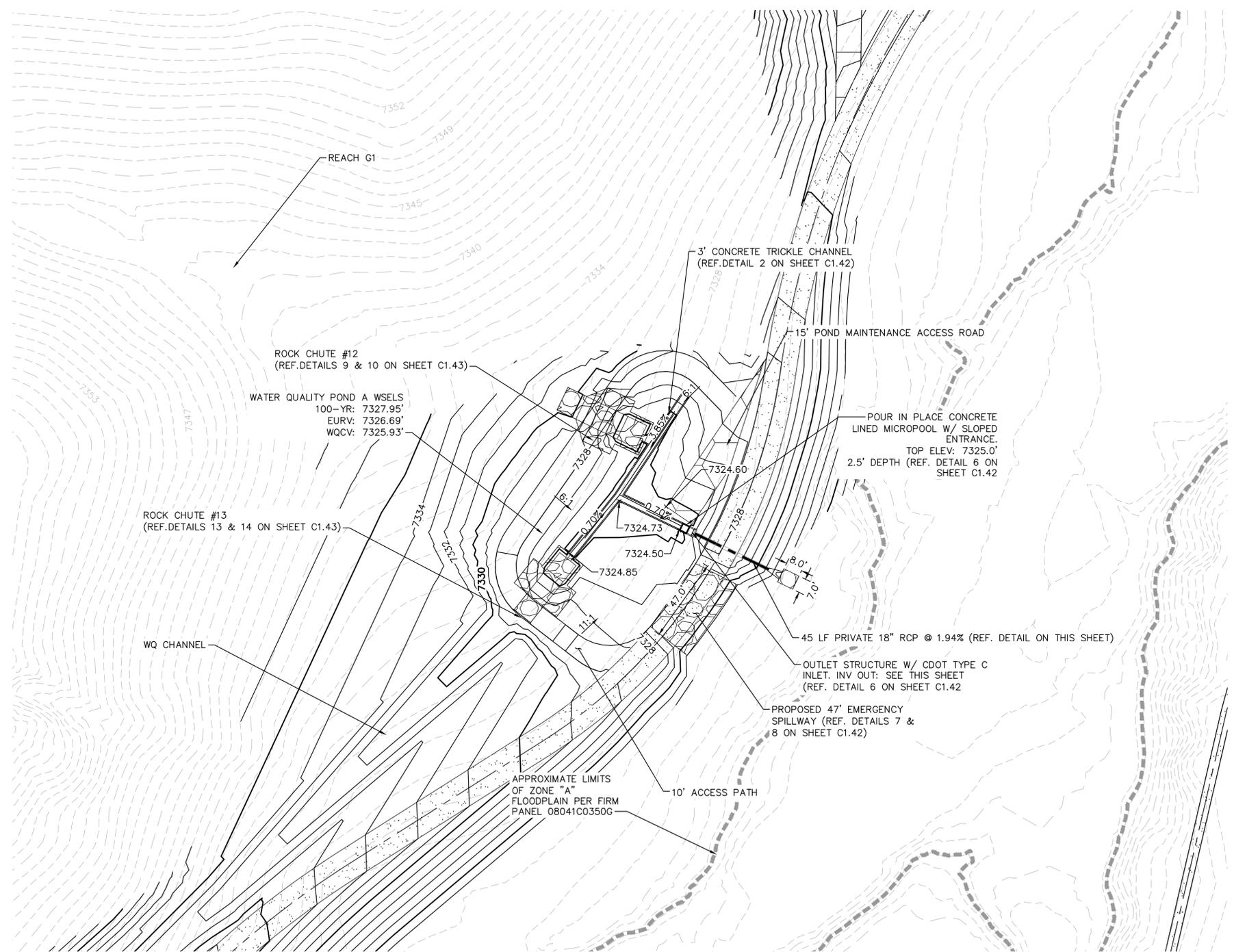
PRELIMINARY  
FOR REVIEW ONLY  
NOT FOR CONSTRUCTION  
**Kimley»Horn**  
Kimley-Horn and Associates, Inc.

PROJECT NO.  
196106001

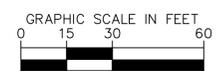
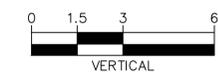
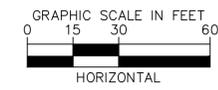
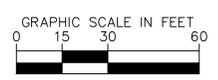
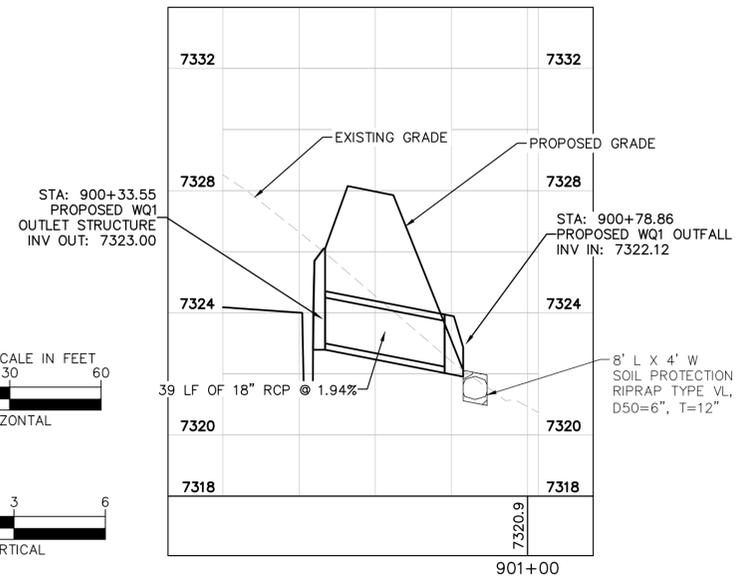
SHEET  
**C1.40**

K:\COS\_Civil\196106001...Winsome Filing No. 3\CADD\PlanSheets\CDS\196106001\_CD\_WQ\_Pond.dwg Wood, Alex 3/15/2023 3:50 PM

LEGEND	
FG	FINISH GRADE
FBT	TOP OF FOREBAY AT FINISHED GRADE
FBB	BOTTOM OF FOREBAY AT FINISHED GRADE
TCT	TOP OF TRICKLE CHANNEL AT FINISHED GRADE
TCB	BOTTOM OF TRICKLE CHANNEL AT FINISHED GRADE
MPT	TOP OF MICROPOOL AT FINISHED GRADE
MPB	BOTTOM OF MICROPOOL AT FINISHED GRADE
GRATE	OUTLET STRUCTURE GRATE ELEVATION
ME	MATCH EXISTING
PT	TOP OF STEEL PLATE AT FINISHED GRADE
PB	BOTTOM OF STEEL PLATE AT FINISHED GRADE
-----	FLOODPLAIN LIMITS
=====	TOP OF POND
-----	PROPOSED STORM SEWER



WQA POND OUTLET PIPE PLAN AND PROFILE



NO.	REVISION	BY	DATE	APPR.

**Kimley»Horn**  
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Colorado Springs, Colorado 80903 (719) 453-0180

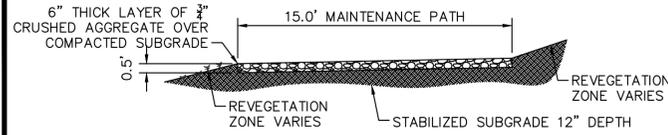
DESIGNED BY: KRK  
DRAWN BY: AJL  
CHECKED BY: KRK  
DATE: 12/16/2021

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

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PROJECT NO.  
196106001

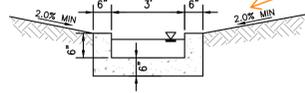
SHEET  
**C1.41**



**1 MAINTENANCE ROAD**

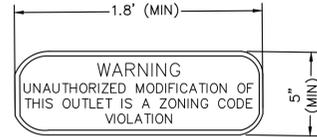
1"=5'  
 MAINTENANCE PATH NOTES  
 1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.

Unresolved Review 1 comment:  
 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.



**2 CONCRETE TRICKLE CHANNEL**

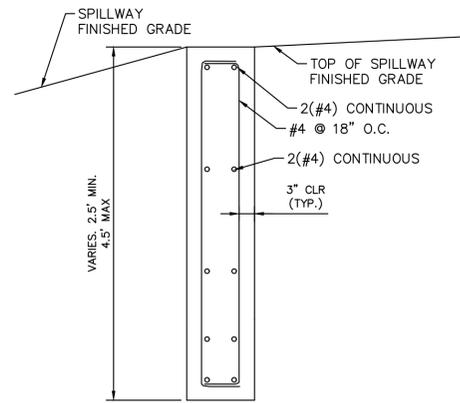
N.T.S.



**3 OUTLET SIGNAGE**

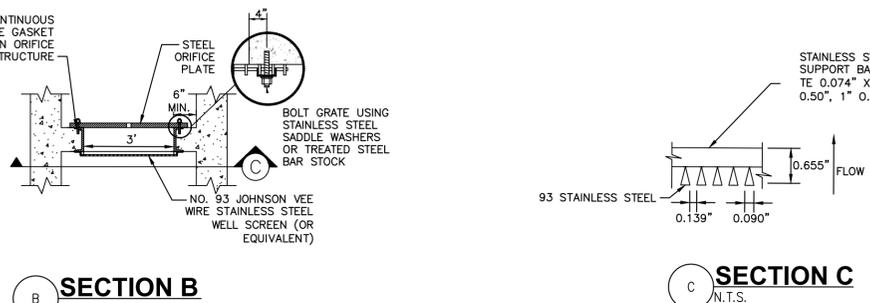
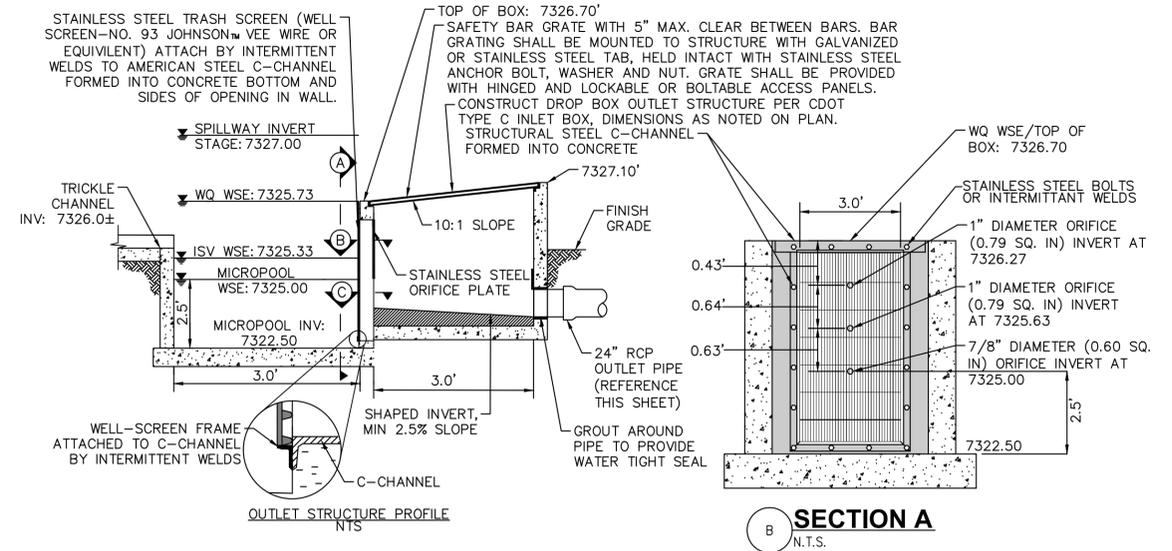
N.T.S.

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



**5 SECTION CREST WALL DETAIL**

N.T.S.



**B SECTION B**

N.T.S.

**C SECTION C**

N.T.S.

**6 OUTLET STRUCTURE DETAIL**

N.T.S.

**4 ORIFICE PLATE AND TRASH RACK DETAIL**

N.T.S.  
 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 HARDWARE.  
 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 (R VALUE).  
 4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

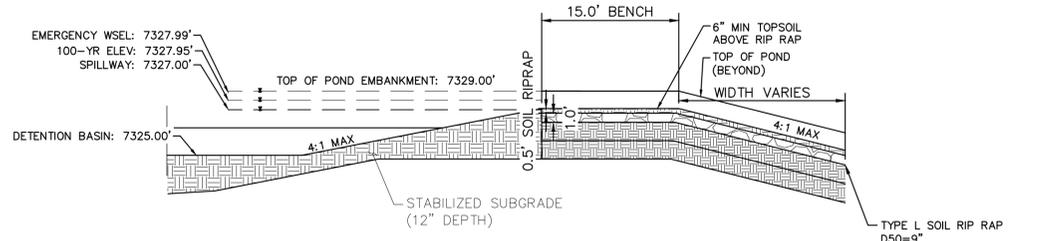
OVERFLOW SAFETY GRATES  
 1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.  
 2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER 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.

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

Table 506-2

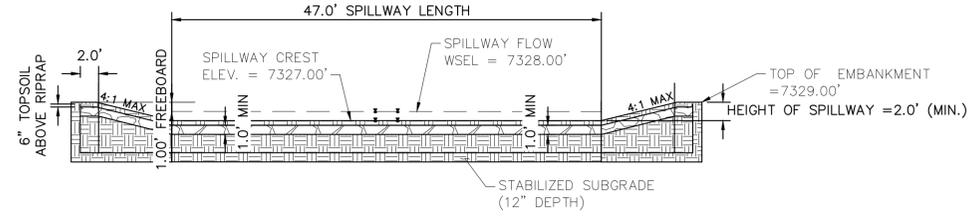
Pay Item	Stone Size d50 <sup>1</sup> (Inches)	Percent of Material Smaller Than Typical Stone <sup>2</sup>	Typical Stone Dimensions <sup>3</sup> (Inches)	Typical Stone Weight <sup>4</sup> (Pounds)
Riprap	6	70-100	12	85
		50-70	9	35
		35-50	6	10
		2-10	2	0.4
Riprap	9	70-100	15	160
		50-70	12	85
		35-50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

<sup>1</sup>d50 = nominal stone size  
<sup>2</sup>based on typical rock mass  
<sup>3</sup>equivalent spherical diameter  
<sup>4</sup>based on a specific gravity = 2.5



**7 EMERGENCY SPILLWAY DETAILS**

1"=10'



**8 EMERGENCY SPILLWAY**

1"=10'

Rock Chute ID	Channel Location	Flow (cfs)	Upstream Inlet Apron Length (ft)	Drop (ft) (Inlet Apron to Outlet Apron)	Chute Length (ft)	Downstream Outlet Apron Length (ft)	Chute Width (ft)	D50 (in)	Rock Chute Thickness (in)	Radius (ft)	Min Rock Chute Depth (ft)	Rock Chute Depth (ft)	Top Chute Width (ft)
4	Pond 1	107	10	6	24	15	24	18	36	50	1.27	1.50	40
6	Pond 2	110	10	8	32	18	17	18	36	50	1.57	2.00	33
11	Pond 4	26	10	10	40	11	10	9	18	25	0.85	1.50	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	1.50	26

K:\COS\_Civil\196106001\_Winsome Filing No. 3\CADD\PlanSheets\CDs\196106001\_CD\_WQ\_Pond.dwg Wood, Alex 3/15/2023 3:50 PM

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

CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

**Kimley»Horn**  
 2021 KIMLEY-HORN AND ASSOCIATES, INC.  
 2 North Nevada Avenue Suite 300  
 Colorado Springs, Colorado 80903 (719) 453-0180

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

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

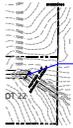
PRELIMINARY  
 FOR REVIEW ONLY  
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PROJECT NO. 196106001  
 SHEET  
**C1.42**



# Construction Drawings\_V2-redline.pdf Markup Summary

dsdlaforce (1)

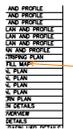


**Subject:** Callout  
**Page Label:** [7] C1.6 GRADING PLAN  
**Lock:** Unlocked  
**Author:** dsdlaforce  
**Date:** 4/6/2023 5:20:22 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Unresolved from Review #1: Headcutting mitigation did not include this segment. Is there no concerns for continued erosion? Address in the drainage report.

In the drainage report provide a summary of the results of the hydraulic calculations for Reach I2.

Glenn Reese - EPC Stormwater (18)



**Subject:** SW - Textbox with Arrow  
**Page Label:** [1] C1.0 COVER SHEET  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/3/2023 3:31:22 PM  
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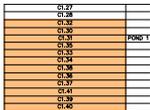
cut and fill map is C1.21

check all other titles vs sheet numbers in this TOC.



**Subject:** SW - Textbox with Arrow  
**Page Label:** [1] C1.0 COVER SHEET  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/3/2023 3:33:07 PM  
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Update TOC with sheets that were added in. The list should go up to C1.43

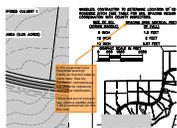


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**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/3/2023 3:33:15 PM  
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Fix out of order numbering



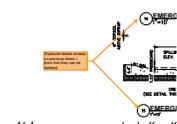
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**Date:** 4/3/2023 3:33:28 PM  
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**Subject:** SW - Textbox with Arrow  
**Page Label:** [23] C1.22 GEC FINAL PLAN  
**Lock:** Unlocked  
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**Date:** 4/4/2023 4:56:29 PM  
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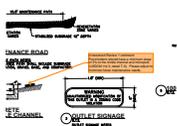
Is this supposed to be horizontal spacing? Clarify so that this table is more clear. See my Review #1 comments on this sheet for reference and further clarification.

I think that you're trying to say: place a waddle every 1.5ft of vertical fall (for the first row).



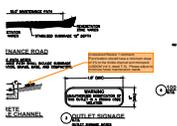
**Subject:** SW - Textbox with Arrow  
**Page Label:** [35] C1.34 POND 1 DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/4/2023 5:10:32 PM  
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**Layer:**  
**Space:**

Duplicate details already on previous sheet. I think that they can be deleted.



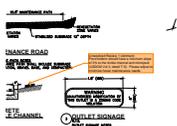
**Subject:** SW - Textbox with Arrow  
**Page Label:** [37] C1.36 POND 2 DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/4/2023 5:39:09 PM  
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**Space:**

Unresolved Review 1 comment:  
 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.



**Subject:** SW - Textbox with Arrow  
**Page Label:** [40] C1.39 POND 4 DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/4/2023 5:39:33 PM  
**Status:**  
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**Space:**

Unresolved Review 1 comment:  
 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.



**Subject:** SW - Textbox with Arrow  
**Page Label:** [43] C1.42 WQ POND A DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/4/2023 5:40:01 PM  
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**Space:**

Unresolved Review 1 comment:  
 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.



**Subject:** SW - Textbox with Arrow  
**Page Label:** [23] C1.22 GEC FINAL PLAN  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/7/2023 1:48:27 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Unresolved from Review #1: provide a detail for Mulching



**Subject:** SW - Textbox with Arrow  
**Page Label:** [23] C1.22 GEC FINAL PLAN  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/7/2023 1:54:22 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Since these are Final GEC Plans, all pond labels should be revised to clarify that permanent ponds will be constructed in place of the TSBs after the Interim phase. Callout revision example:

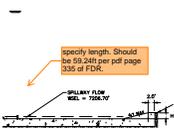
1st line: "TSB Pond 1 (Initial and Interim)"  
 2nd line: "Pond 1 (Final)"

[typical comment for all ponds in GEC Plans]



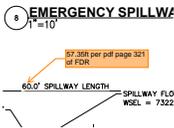
**Subject:** SW - Textbox  
**Page Label:** [23] C1.22 GEC FINAL PLAN  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/7/2023 1:59:16 PM  
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**Space:**

Label Runoff Reduction areas on all GEC Plans



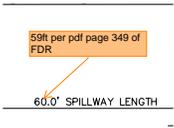
**Subject:** SW - Textbox with Arrow  
**Page Label:** [37] C1.36 POND 2 DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/7/2023 11:36:20 AM  
**Status:**  
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**Space:**

specify length. Should be 59.24ft per pdf page 335 of FDR.



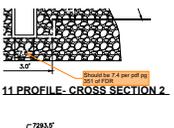
**Subject:** SW - Textbox with Arrow  
**Page Label:** [34] C1.33 POND 1 DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/7/2023 11:37:07 AM  
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**Space:**

57.35ft per pdf page 321 of FDR



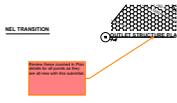
**Subject:** SW - Textbox with Arrow  
**Page Label:** [40] C1.39 POND 4 DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/7/2023 11:38:00 AM  
**Status:**  
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**Layer:**  
**Space:**

59ft per pdf page 349 of FDR



**Subject:** SW - Textbox with Arrow  
**Page Label:** [41] C1.40 POND 4 DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/7/2023 11:38:33 AM  
**Status:**  
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**Layer:**  
**Space:**

Should be 7.4 per pdf pg 351 of FDR



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**Subject:** SW - Textbox with Arrow  
**Page Label:** [35] C1.34 POND 1 DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/7/2023 11:42:21 AM  
**Status:**  
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**Space:**

Review these zoomed in Plan details for all ponds as they are all new with this submittal.



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**Subject:** SW - Textbox with Arrow  
**Page Label:** [35] C1.34 POND 1 DETAILS  
**Lock:** Unlocked  
**Author:** Glenn Reese - EPC Stormwater  
**Date:** 4/7/2023 11:43:20 AM  
**Status:**  
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**Space:**

Per previous comment in Review #1, MHFD recommends that the "floor of forebays should be concrete or lined with grouted boulders to define sediment removal limits."

Typical comment for all forebays.