

THE LANDINGS OF DENMARK  
FILING NO. 2 - UPDATED PLANS  
COUNTY OF EL PASO, STATE OF COLORADO  
CONSTRUCTION PLANS  
UPDATED

AGENCIES:

DEVELOPER  
CHARLES M. MCALLISTER  
PO BOX 6797  
COLORADO SPRINGS, CO 80934  
(719) 338-5223

CIVIL ENGINEER  
PREMIER ENGINEERING, INC  
2110 VICKERS DRIVE  
COLORADO SPRINGS, COLORADO 80918  
JEFFREY C. JUREW, P.E.  
(719) 598-6951

REVIEW AGENCY  
EL PASO COUNTY  
PLANNING & COMMUNITY DEVELOPMENT  
2880 INTERNATIONAL CIRCLE  
COLORADO SPRINGS, CO 80910  
(719) 520-6300

ELECTRIC DIVISION  
MOUNTAINVIEW ELECTRIC ASSOCIATION  
11140 E WOODMEN ROAD  
FALCON, COLORADO 80831  
(719) 495-2283

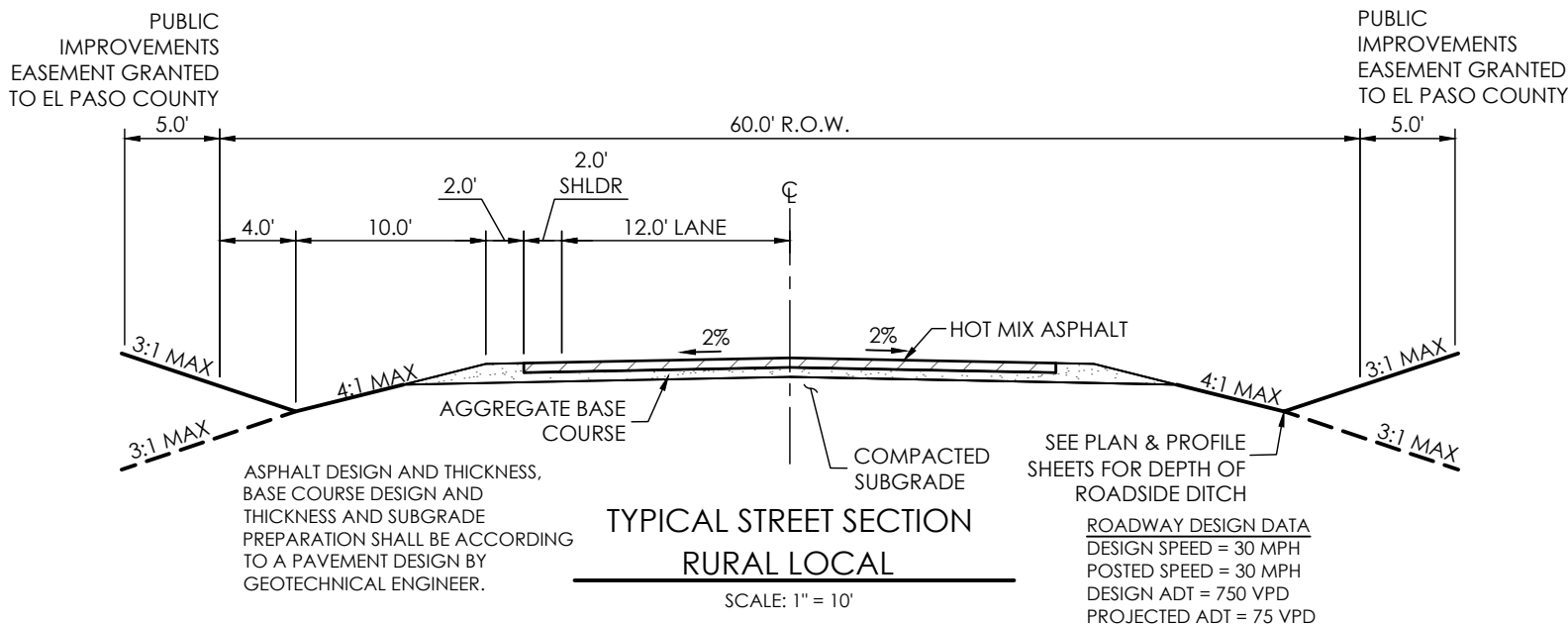
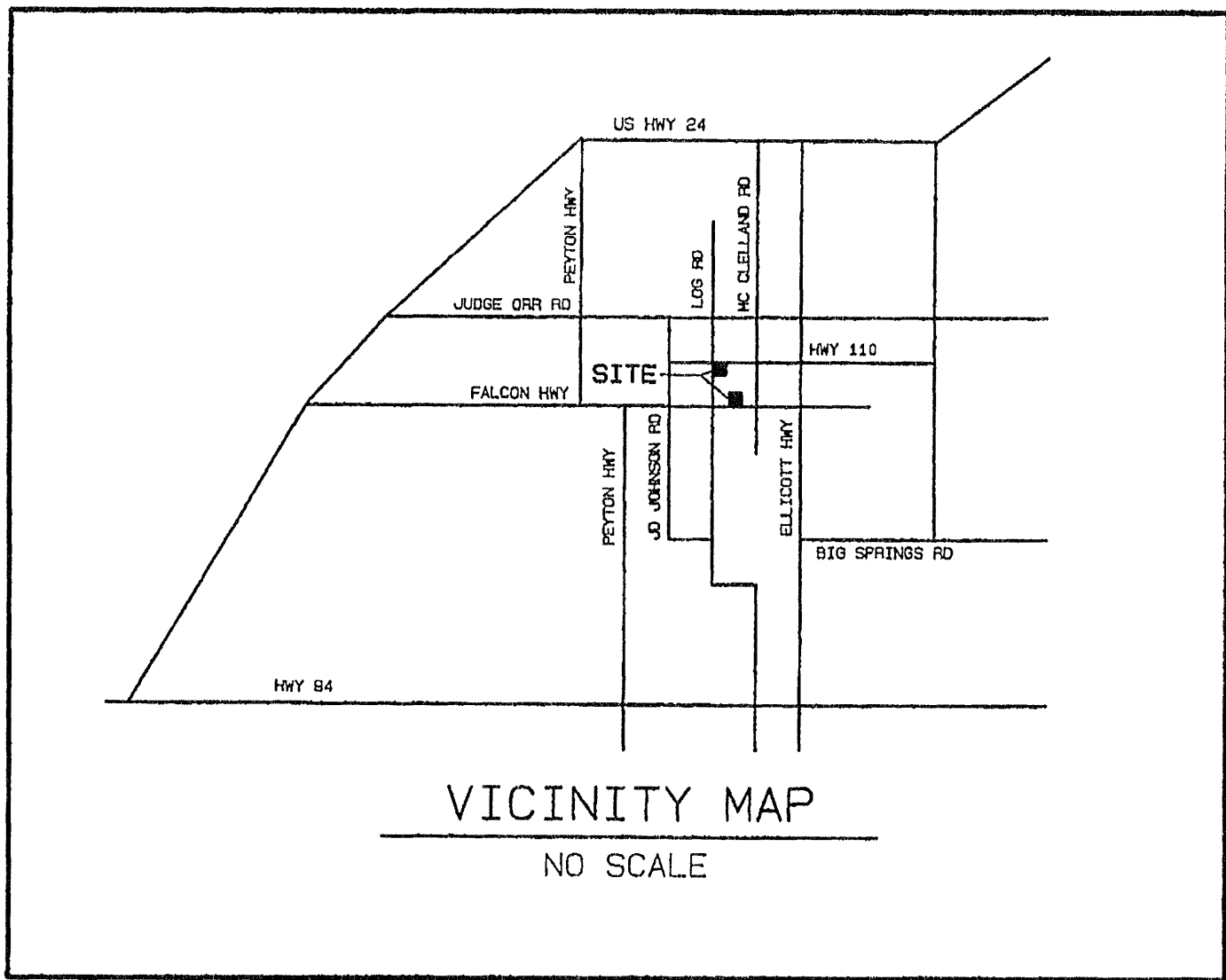
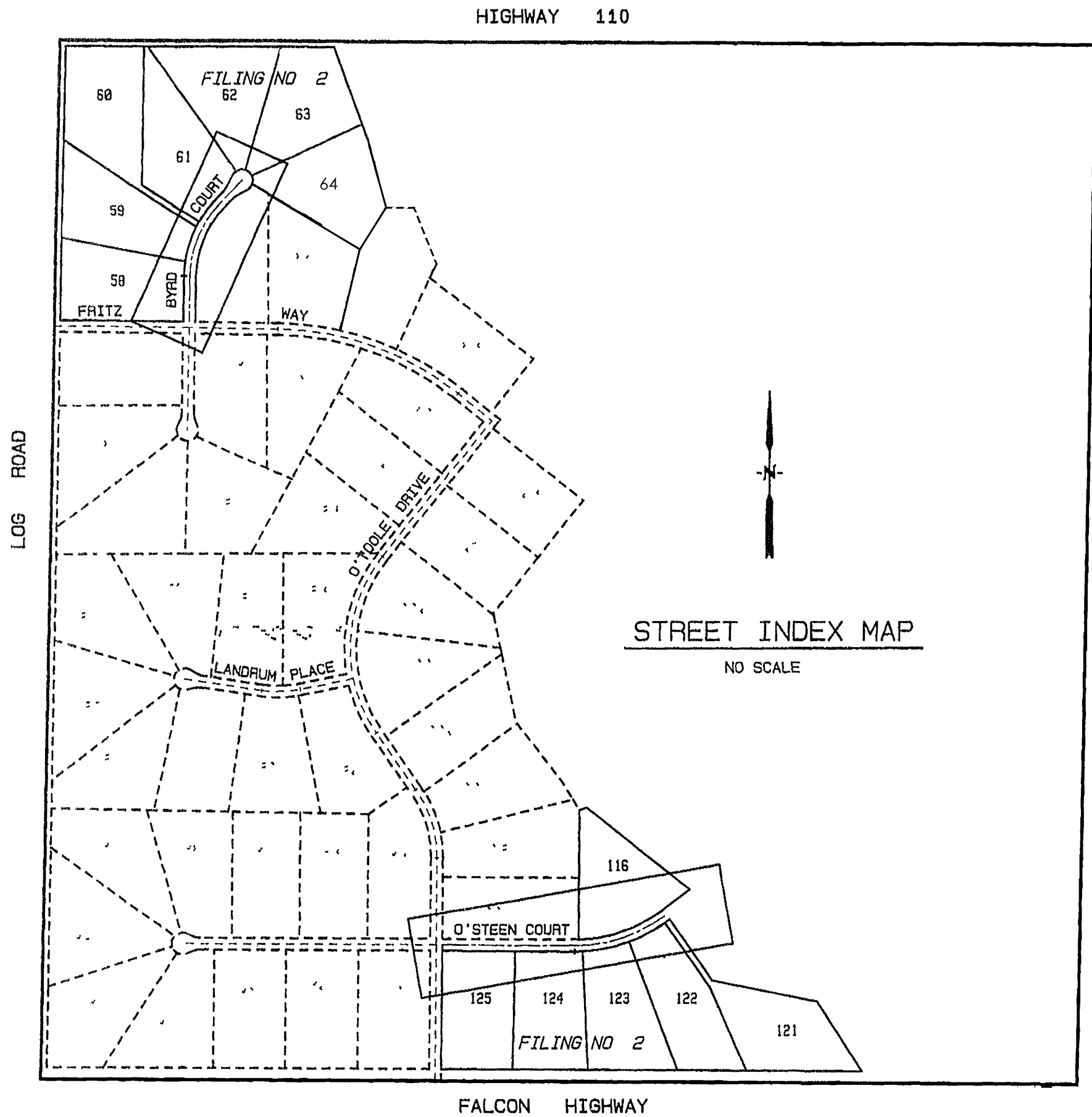
TELEPHONE COMPANY  
U S WEST COMMUNICATIONS  
(LOCATIONS) (800) 922-1987  
A T & T  
(LOCATIONS) (719) 635-3674

UPDATED BY:  
M.V.E., INC.  
1903 LELARAY STREET, SUITE 200  
COLORADO SPRINGS, CO 80909  
(719) 635-5736

SHEET INDEX

PLAN SET SHEET NO.	SHEET TITLE
1 OF 4	COVER SHEET, DETAILS, NOTES & APPROVALS
2 OF 4	BYRD COURT PLAN & PROFILE
3 OF 4	O'STEEN COURT PLAN & PROFILE
4 OF 4	CONSTRUCTION DETAILS

MVE DRAWING NO.
CON-CS
CON-PP1
CON-PP2
CON-CD



GENERAL NOTES

- ALL NEW CONSTRUCTION IS TO CONFORM TO THE SPECIFICATIONS OF EL PASO COUNTY.
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN DRAWN FROM AVAILABLE RECORDS AND/OR SURFACE EVIDENCE. THE LOCATION OF ALL UTILITIES MAY NOT BE SHOWN OR MAY NOT HAVE BEEN LOCATED. BELOW GROUND LOCATIONS HAVE NOT BEEN PERFORMED. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL SUBSURFACE UTILITY OWNERS PRIOR TO BEGINNING WORK TO DETERMINE LOCATION OF UTILITY FACILITIES. ALL UTILITIES SHALL BE LOCATED PRIOR TO ANY EARTH WORK OR DIGGING (1-800-922-1987). THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- EXISTING CONDITIONS SHALL BE VERIFIED BY THE GENERAL CONTRACTOR. DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
- SOIL PREPARATION, SEEDING, AND MULCHING FOR AN ESTIMATED 3.3 ACRES WILL BE REQUIRED ON ALL DISTURBED AREAS NOT SURFACED. THE FOLLOWING TYPES AND RATES SHALL BE USED:

GRASS	VARIETY	AMOUNT IN PLS BUL PER ACRE
SIDEOTS GRAMA	EL BENO	3.0 lbs.
WESTERN WHEATGRASS	BARTON	2.5 lbs.
SLENDER WHEAT GRASS	NATIVE	2.0 lbs.
LITTLE BLUESTEM	PASTURA	2.0 lbs.
SAND DROPSPEED	NATIVE	0.5 lbs.
SWITCH GRASS	NEBRASKA 28	3.0 lbs.
WEEPING LOVE GRASS	MORPHA	1.0 lbs.
	TOTAL	14.0 lbs.
- SEEDING APPLICATION: DRILLED TO A DEPTH OF .25' TO .50' INTO SOIL WHERE POSSIBLE. BROADCAST AND RAKED TO COVER ON STEEPER THAN 3:1 SLOPES WHERE ACCESS IS LIMITED OR UNSAFE FOR EQUIPMENT.
- MULCHING REQUIREMENT AND APPLICATION: 2.0 TONS PER ACRE NATIVE HAY MECHANICALLY CRIMPED INTO SOIL.
- ALL STORM DRAIN SHALL BE REINFORCED CONCRETE PIPE. ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ALL STORM DRAIN FITTINGS AND BENDS SHALL BE PRE-CAST. STORM DRAIN PIPE MAY ALSO BE CORRUGATED METAL OR HDPE, PLACED IN ACCORDANCE WITH EL PASO COUNTY SPECIFICATIONS.
- CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION MEETING HELD PRIOR TO CONSTRUCTION WITH EPC-PCD, ENGINEER, AND CONTRACTOR IN ATTENDANCE.
- CONTRACTOR IS RESPONSIBLE FOR ALL OF HIS OPERATIONS ON THE SITE. CONTRACTOR SHALL OBSERVE ALL SAFETY AND OSHA REGULATIONS DURING CONSTRUCTION OPERATIONS. TRENCH WIDTHS AND SLOPE ANGLES SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND ACCORDING TO SAFETY AND OSHA REGULATIONS.
- ALL NECESSARY PERMITS, SUCH AS SWMP, FUGITIVE DUST, ACCESS, C.O.E. 404, ESGCP PERMIT, ETC., SHALL BE OBTAINED PRIOR TO CONSTRUCTION.

STANDARD EL PASO COUNTY CONSTRUCTION PLAN NOTES

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES. INCLUDING THE FOLLOWING:
  - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
  - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
  - CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (PCDD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE RIGHT-OF-WAY (ROW) UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

DEVELOPER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

PHIL HOWERTON  
THE LANDINGS OF DENMARK, LLC  
930 N. MURRAY BLVD  
COLORADO SPRINGS, CO 80831

ENGINEER'S STATEMENT

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

DAVID R. GORMAN, P.E.  
FOR AND ON BEHALF OF M.V.E., INC.

EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

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

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.1.2, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

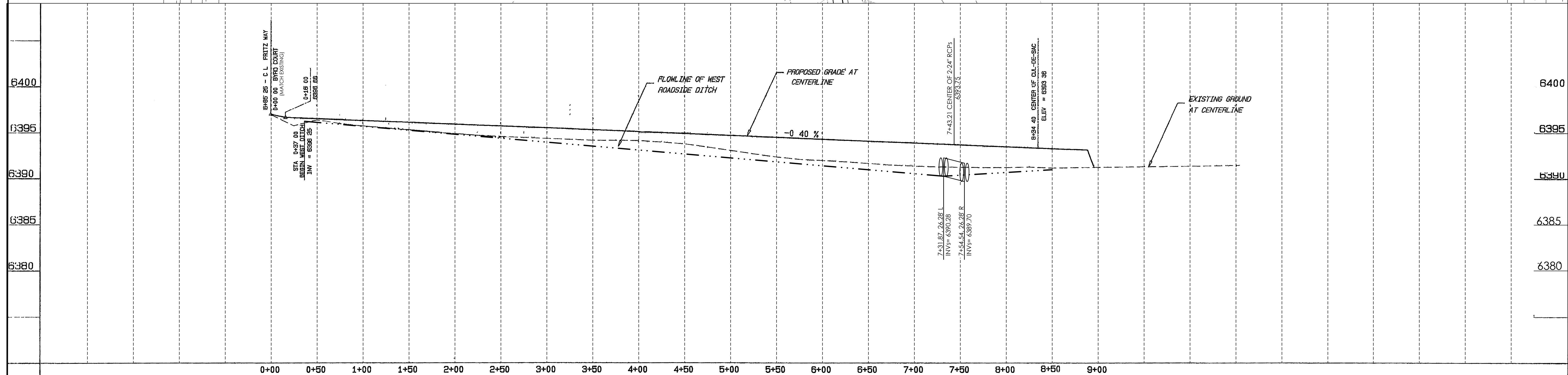
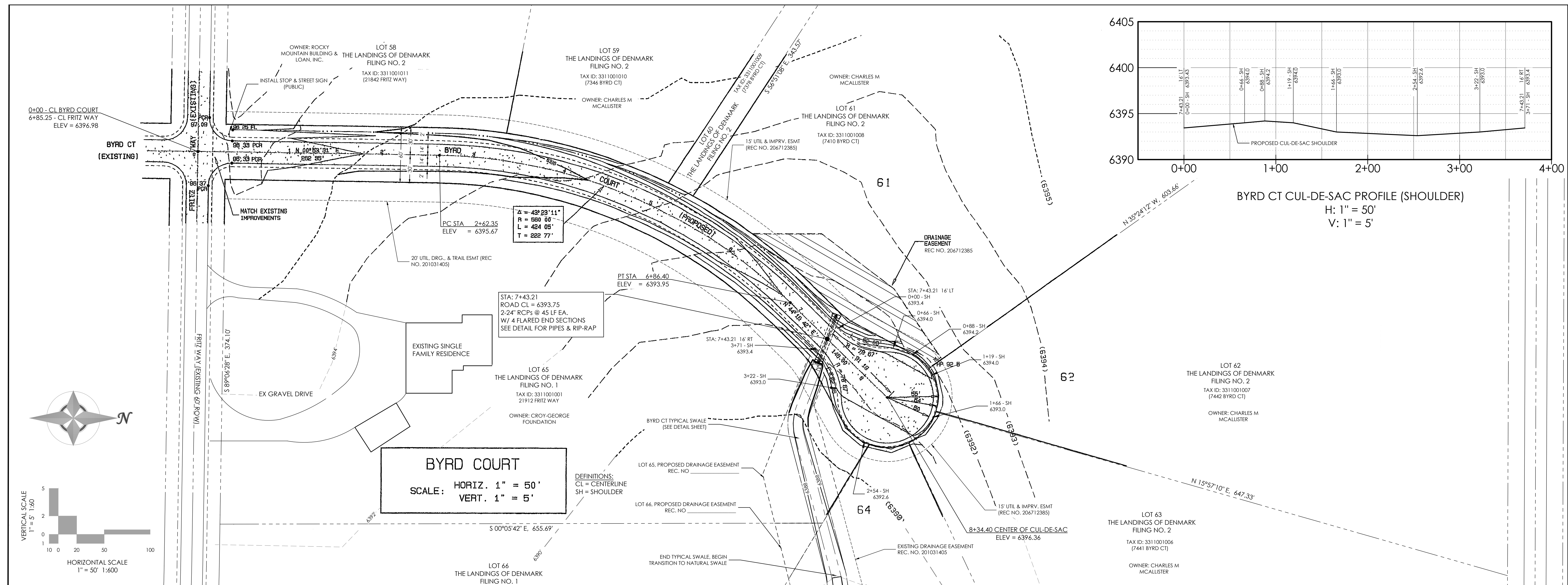
JOSHUA PALMER, P.E.  
COUNTY ENGINEER / ECM ADMINISTRATOR


SHEET 1 OF 4



TITLE: <b>CONSTRUCTION_PLAN COVER SHEET</b>		UPDATED BY: <b>MONUMENT VALLEY ENGINEERS INC.</b>	
DRAWING NO. <b>CON-CS</b>		ENGINEERS * SURVEYORS 1903 LELARAY STREET, SUITE 200 COLORADO SPRINGS, CO 80909 Phone (719) 635-5736 Fax (719) 635-5450 E-mail mve@monvalley.com	
MVE PROJ. NO. <b>61108</b>		PREPARATION DATE: <b>12/29/22</b>	
DRAWN: <b>JO</b>			
ENGINEER: <b>DRG</b>			
CHECKED: <b>12/29/22</b>			

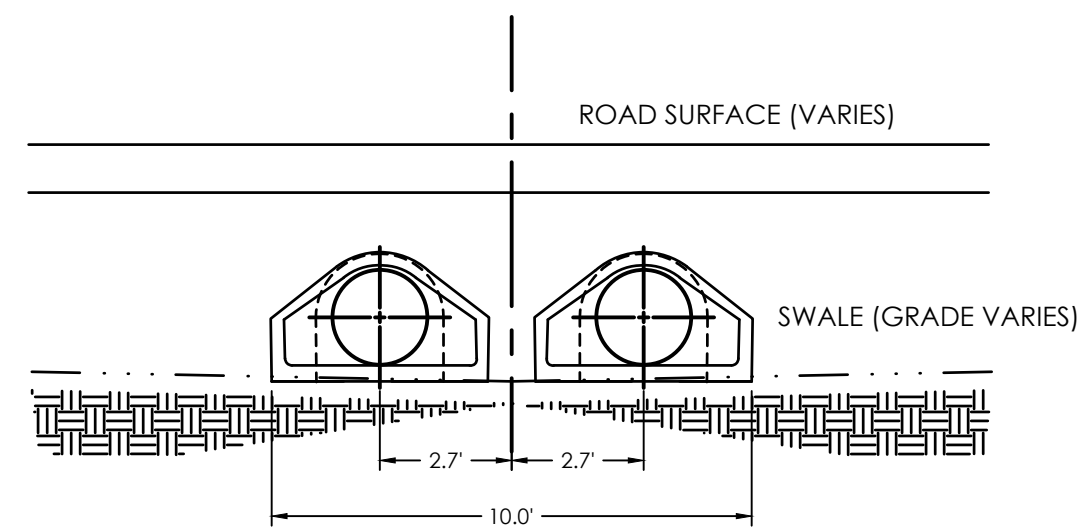
PCD FILE NO. CDR-22-012



STATEMENT	REVIEW	DESIGN DATA	DESIGN SPEED = 30 MPH	TITLE: CONSTRUCTION PLAN PLAN & PROFILE	UPDATED BY: MONUMENT VALLEY ENGINEERS INC.	PREMIER ENGINEERING, INC Professional Civil Engineers	PROJECT: ROAD CONSTRUCTION PLANS
THE COUNTY OF EL PASO RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE COUNTY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER REVIEW DATE	UTILITY GRADE _____ DATE _____ CURB & GUTTER _____ DATE _____ PAVEMENT DESIGN _____ DATE _____ DRAINAGE DESIGN _____ FILED IN ACCORDANCE WITH THE CODE OF EL PASO COUNTY AS AMENDED _____ DATE _____	SIDEWALKS WIDTH _____ ASPHALT THICKNESS _____ LOCATIONS Attached <input type="checkbox"/> AC Surface _____ Detached, 6' from P/L <input type="checkbox"/> AC Base _____ AGG BASE THICKNESS _____ CURB TYPE <input type="checkbox"/> 10 <input type="checkbox"/> 20 <input type="checkbox"/> 30 Class 6 _____ R/W WIDTH _____ EOA-EOA 24 Class 5 _____ STREET TYPE RES HVEEM _____ Class 2 _____		DRAWING NO. CON_PP1 MVE PROJ. NO. 61108 DRAWN: JO ENGINEER: DRG CHECKED: 12/29/22	 ENGINEERS • SURVEYORS 1903 LELAND STREET, SUITE 200 COLORADO SPRINGS, CO 80909 Phone (719) 635-5736 Fax (719) 635-5450 E-mail mve@mvengil.com PREPARATION DATE: 12/29/22	2110 Vickers Drive Colorado Springs, CO 80919 (719) 598 6951 PremierEng@aol.com	SUBDIVISION THE LANDINGS AT DENMARK FILING NO. 2
							DRAINAGE BASIN _____
							JOB NO _____ SHEET 2 OF SHEET _____



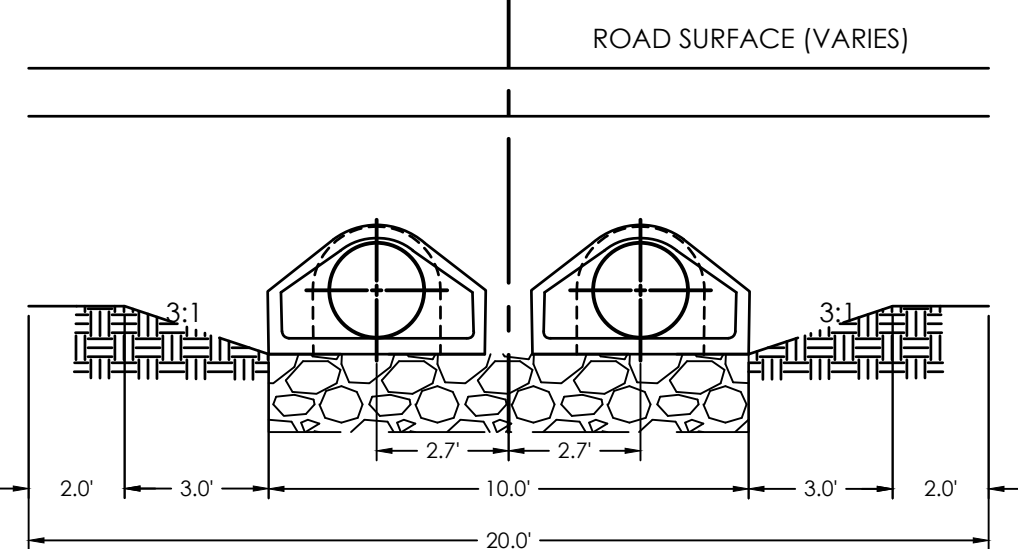




SEE ROAD PROFILE FOR SWALE GRADING

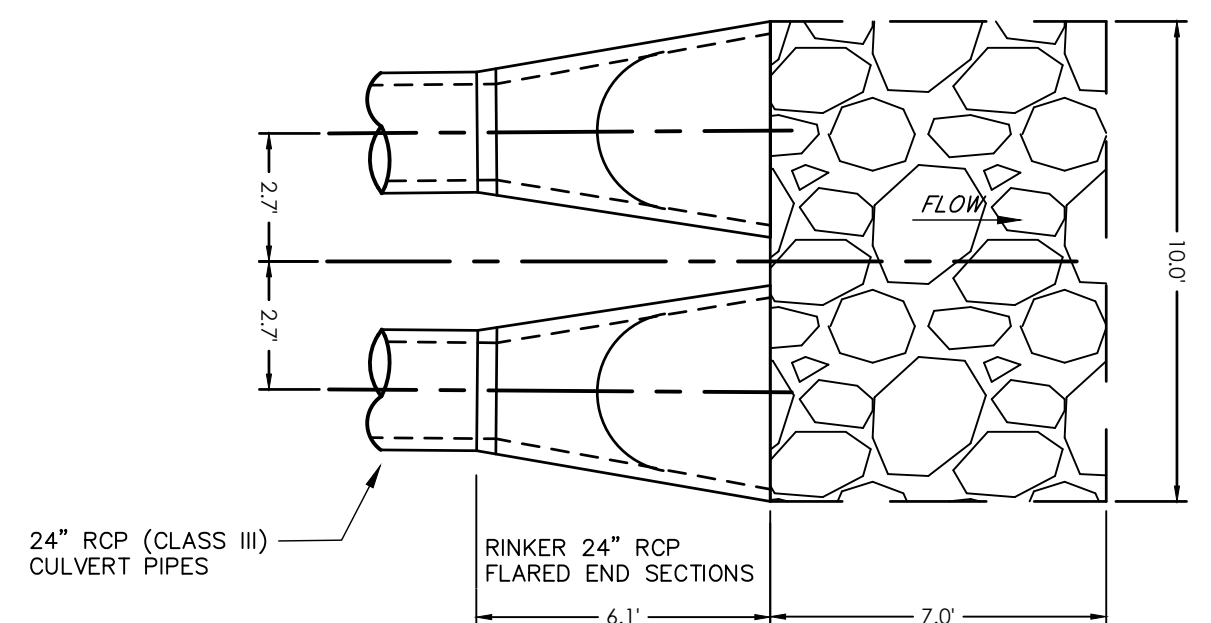
**TYPICAL CULVERT INLET**

1" = 4'

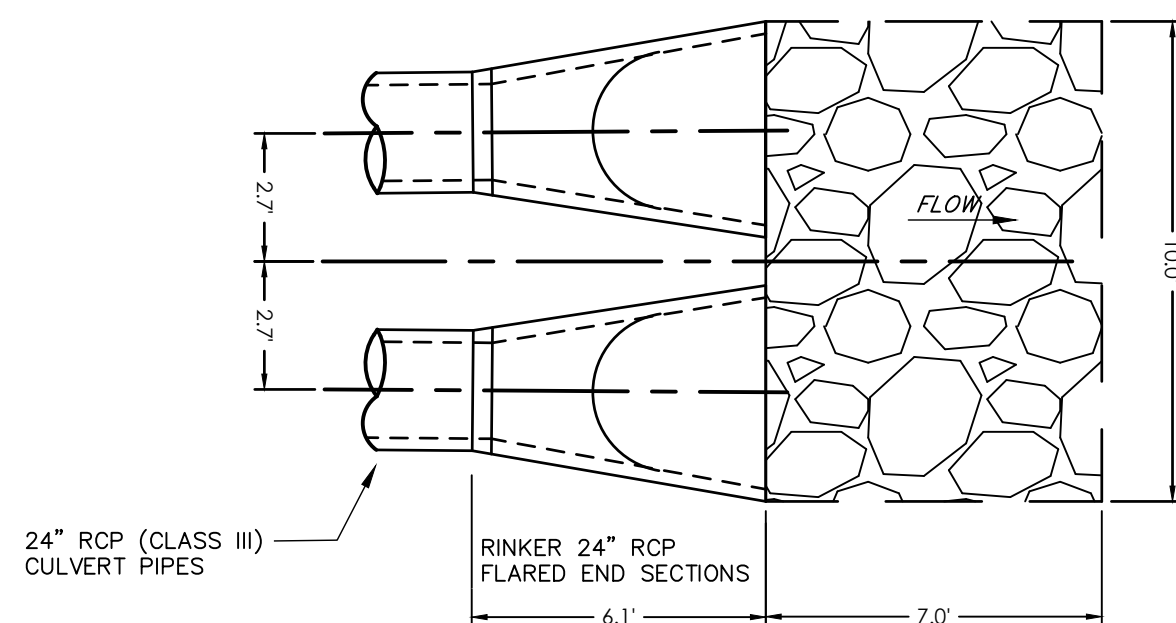


**TYPICAL CULVERT OUTLET**

1" = 4'



**BYRD CT OUTLET**



**O'STEEN CT OUTLET**

**TYPICAL CULVERT OUTLET**

1" = 4.0'

NOTE:  
1. CDOT SECTION 506 GRADATION REQUIREMENTS APPLY  
2. RIPRAP IS NOT REQUIRED AT CULVERT INLETS

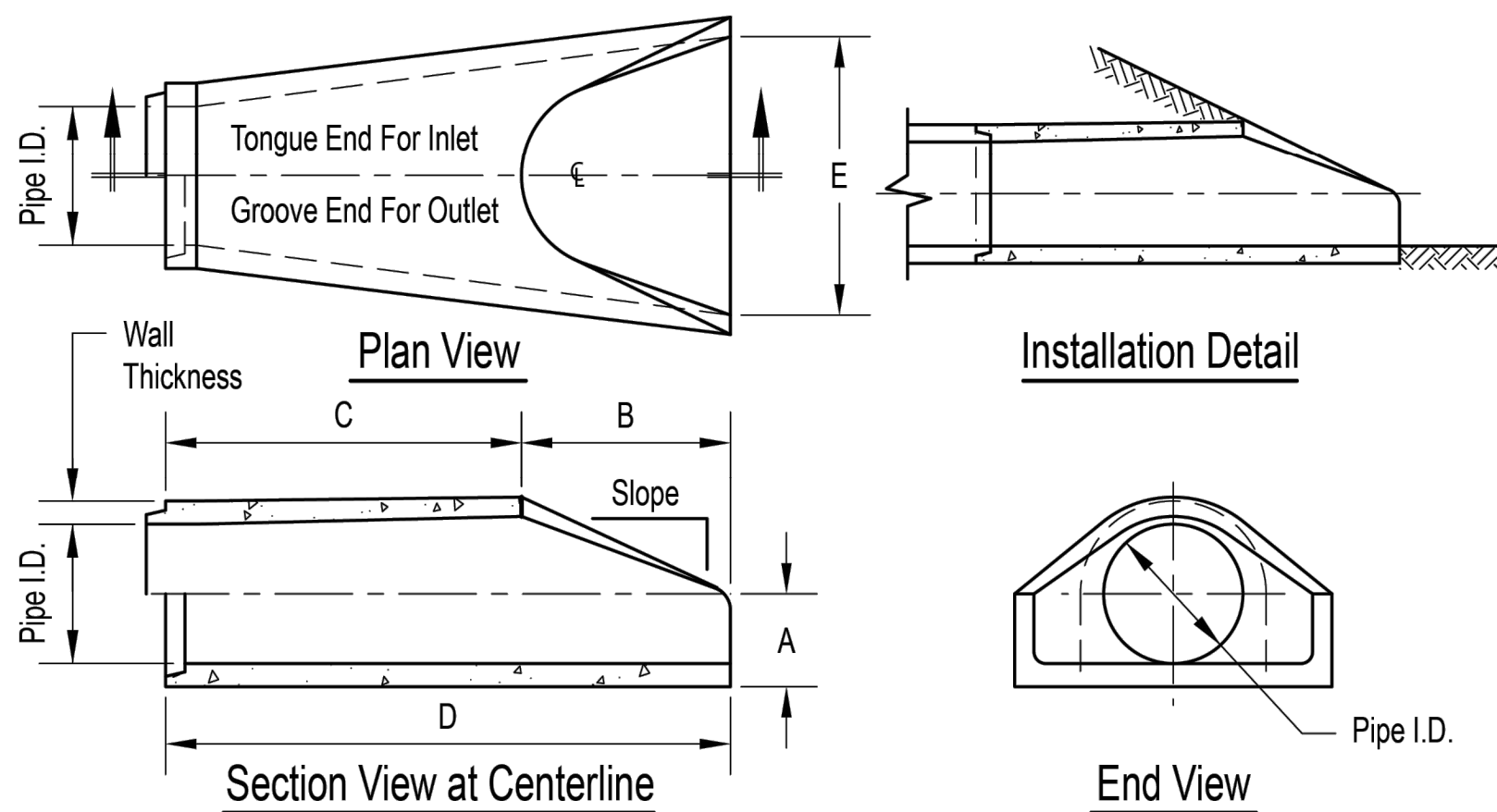
RIP-RAP GRADATION TABLE	
% SMALLER BY WEIGHT	TYPE L INTERLOCK DIM. (INCHES)
70 - 100	$\sigma_{100} = 15$
50 - 70	$\sigma_{70} = 12$
35 - 50	$\sigma_{50} = 9$
2 - 10	$\sigma_{10} = 3$

CULVERT PIPE DATA						CULVERT OUTLET APRON DATA			
CULVERT NO.	ROAD NAME	ROAD STATION	RC PIPE DIA	RC PIPE LENGTH (FT.)	FLARED END SECTION	W1 (FT.)	W2 (FT.)	L (FT.)	RIP-RAP TYPE
1	BYRD CT	N/A	2-24"	45	4	10	10	7	VL
2	O'STEEN CT	N/A	2-24"	48	4	10	10	7	VL

**Rinker**  
MATERIALS®  
A QUIKRETE® COMPANY

Concrete Pipe Division

**Flared End Section  
12" - 72" Diameter Pipe**



Pipe Inner Diameter (inches)	Wall Thickness (inches)	A (inches)	B (inches)	C (inches)	D (inches)	E (inches)	Slope
12	2	4	24	48 7/8	72 7/8	30	3:1
15	2 1/4	6	27	48	73	30	3:1
18	2 1/2	9	27	46	73	36	3:1
24	3	9 1/2	43 1/2	30	73 1/2	48	3:1
30	3 1/2	12	54	19 3/4	73 3/4	60	3:1
36	4	15	63	34 3/4	97 3/4	72	3:1
42	4 1/2	21	63	35	98	78	3:1
48	5	24	72	26	98	84	3:1
54	5 1/2	27	65	35	100	90	2.4:1
60	6	30	60	39	99	96	2:1
66	6 1/2	32	78	21	99	102	2:1
72	7	34	78	21	99	108	2:1

Dimensions may vary depending upon equipment availability.

Notes:

- Produced to meet ASTM specifications.
- Contact a Concrete Pipe Division representative for details not listed on this sheet.

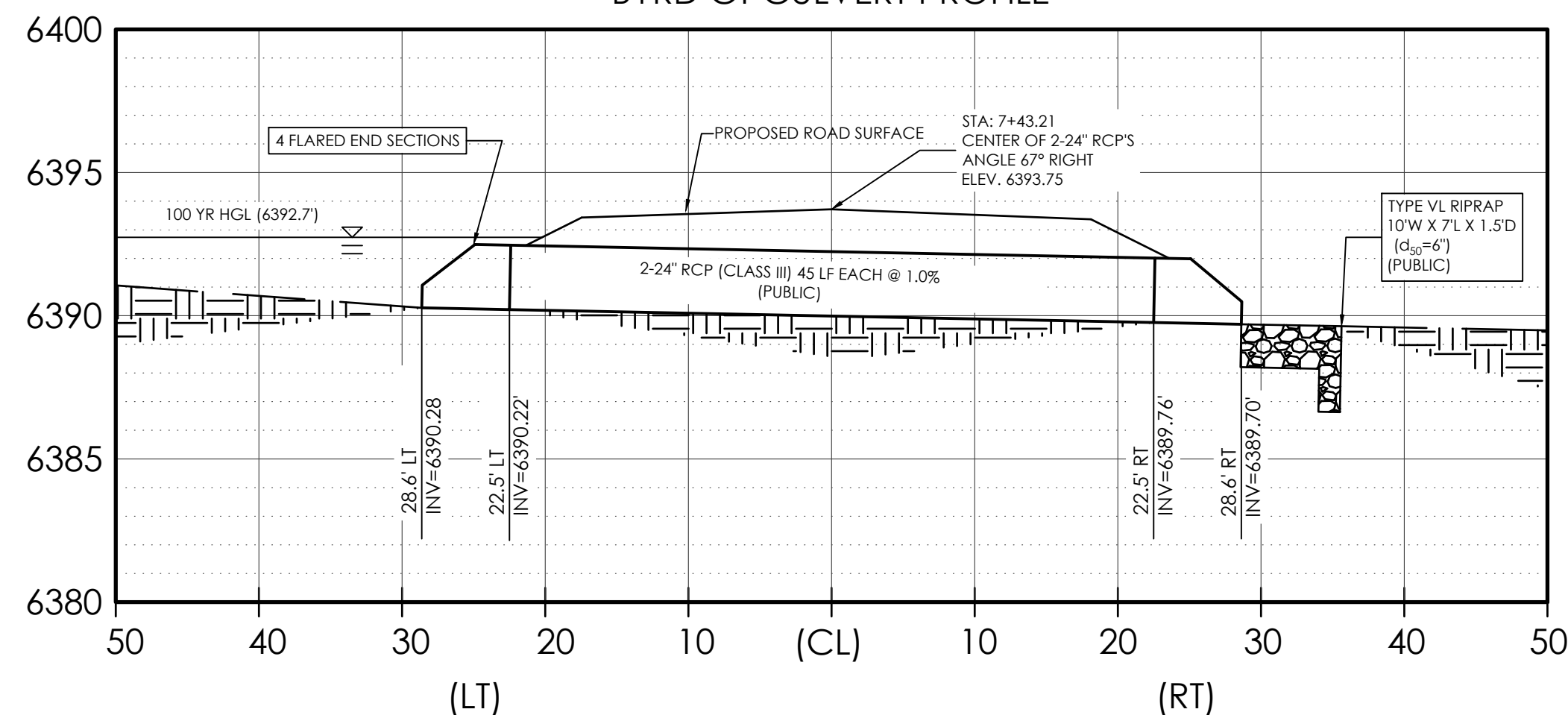
Rinker 024

**PROPOSED CULVERT PROFILES**

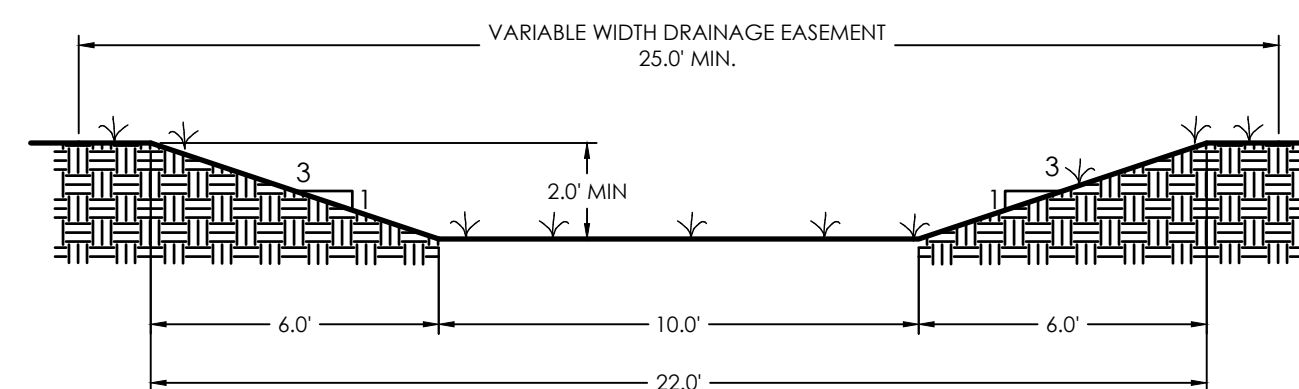
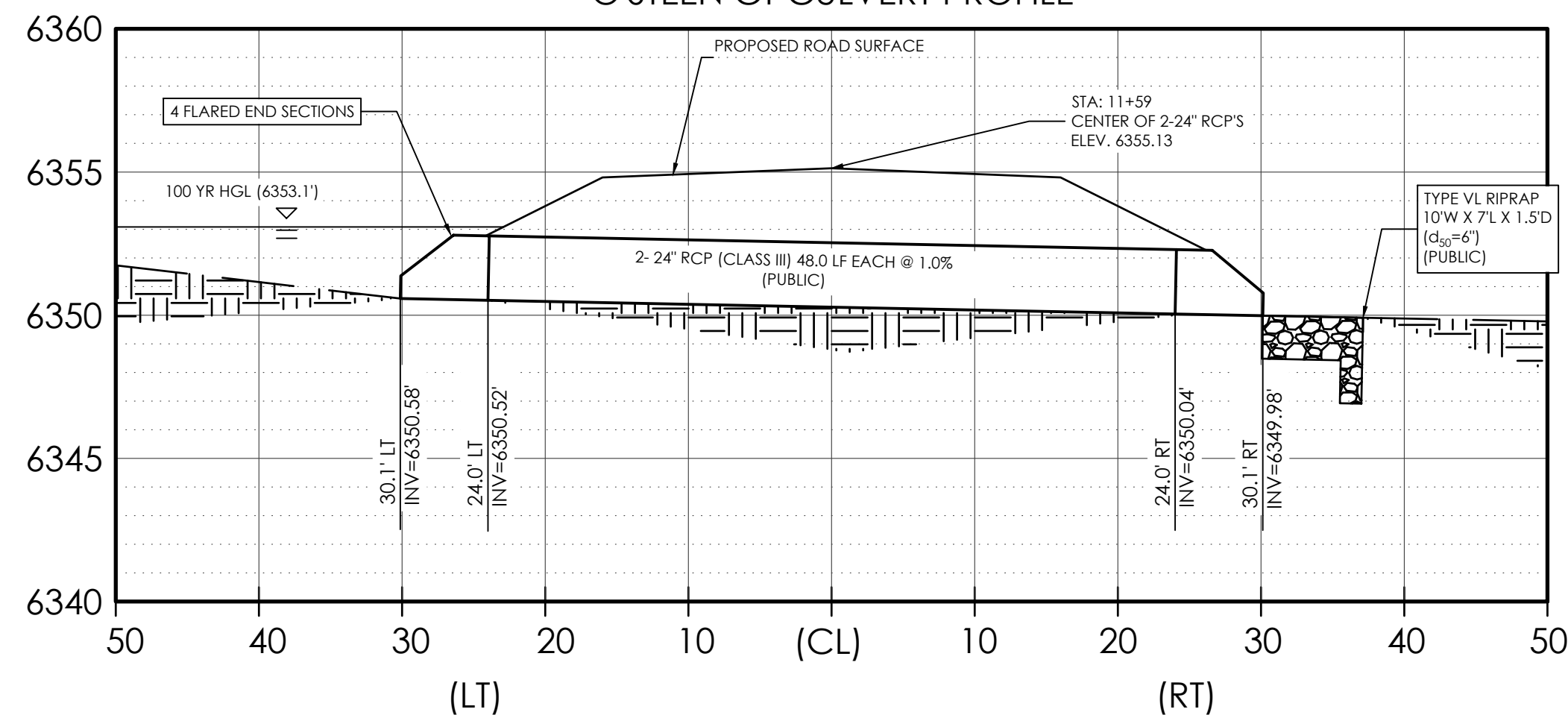
H: 1" = 10'

V: 1" = 20"

**BYRD CT CULVERT PROFILE**

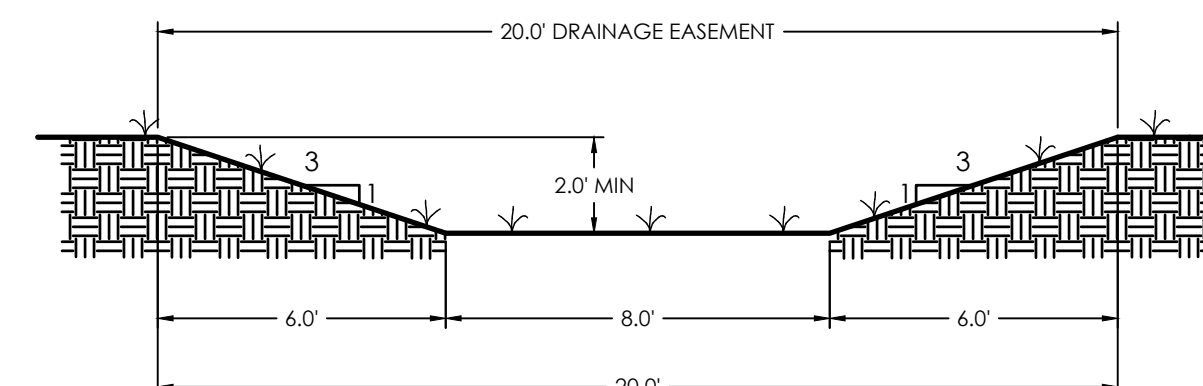


**O'STEEN CT CULVERT PROFILE**



**BYRD CT TYPICAL SWALE DETAIL**

1" = 4'



**O'STEEN CT TYPICAL SWALE DETAIL**

1" = 4'

NOTE: RESEED DISTURBED AREA  
RE: GRADING & EROSION CONTROL PLAN

NOTE: RESEED DISTURBED AREA  
RE: GRADING & EROSION CONTROL PLAN

SHEET 4 OF 4

TITLE: <b>CONSTRUCTION PLAN CON_DETAILS</b>		UPDATED BY: <b>MONUMENT VALLEY ENGINEERS INC.</b>	
DRAWING NO. <b>CON_CD</b>		ENGINEERS & SURVEYORS 1903 LELAND STREET, SUITE 200 COLORADO SPRINGS, CO 80909 Phone (719) 635-5736 Fax (719) 635-5450 E-mail mve@mvecivil.com	
MVE PROJ. NO. <b>61108</b>		PREPARATION DATE: <b>12/29/22</b>	
DRAWN: <b>JO</b>		CHECKED: <b>12/29/22</b>	
ENGINEER: <b>DRG</b>		PREPARED BY: <b>12/29/22</b>	

THE LANDINGS OF DENMARK  
FILING NO. 2  
DETAIL SHEET

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PremierEng@aol.com