

9/10/2019 1:00pm G:\0102\01021\01021.dwg - K2510191 441 Paul Grider

Grazing Yak

El Paso County, Colorado

Civil Construction Plans - Issued For Grading Permit

solar facility?

SITE DEVELOPMNE
PLAN

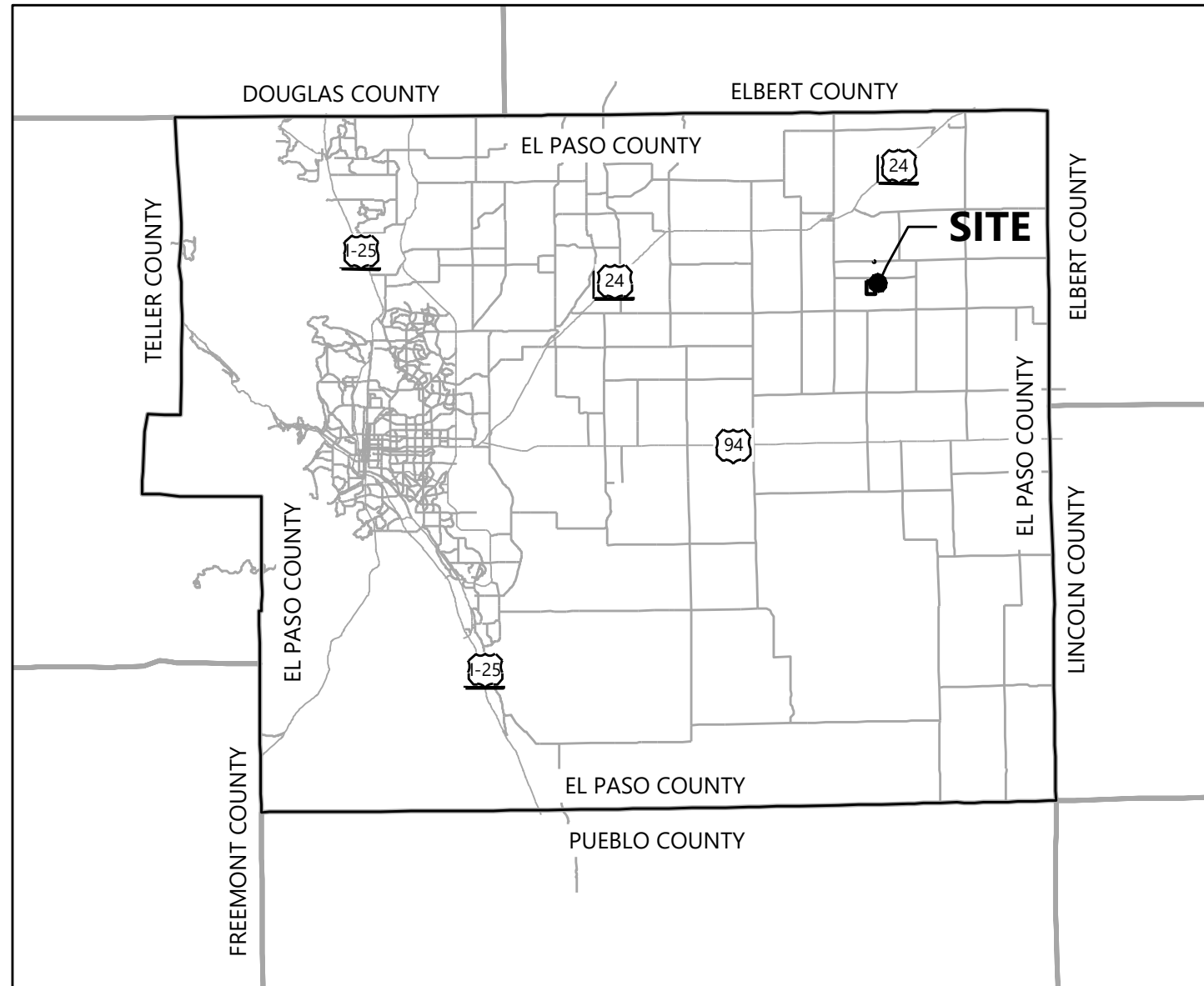
This is for
construction of
complete facility.

See standard
checklist; Add all
items:
- Identify dimensional
standards for this
project in notes

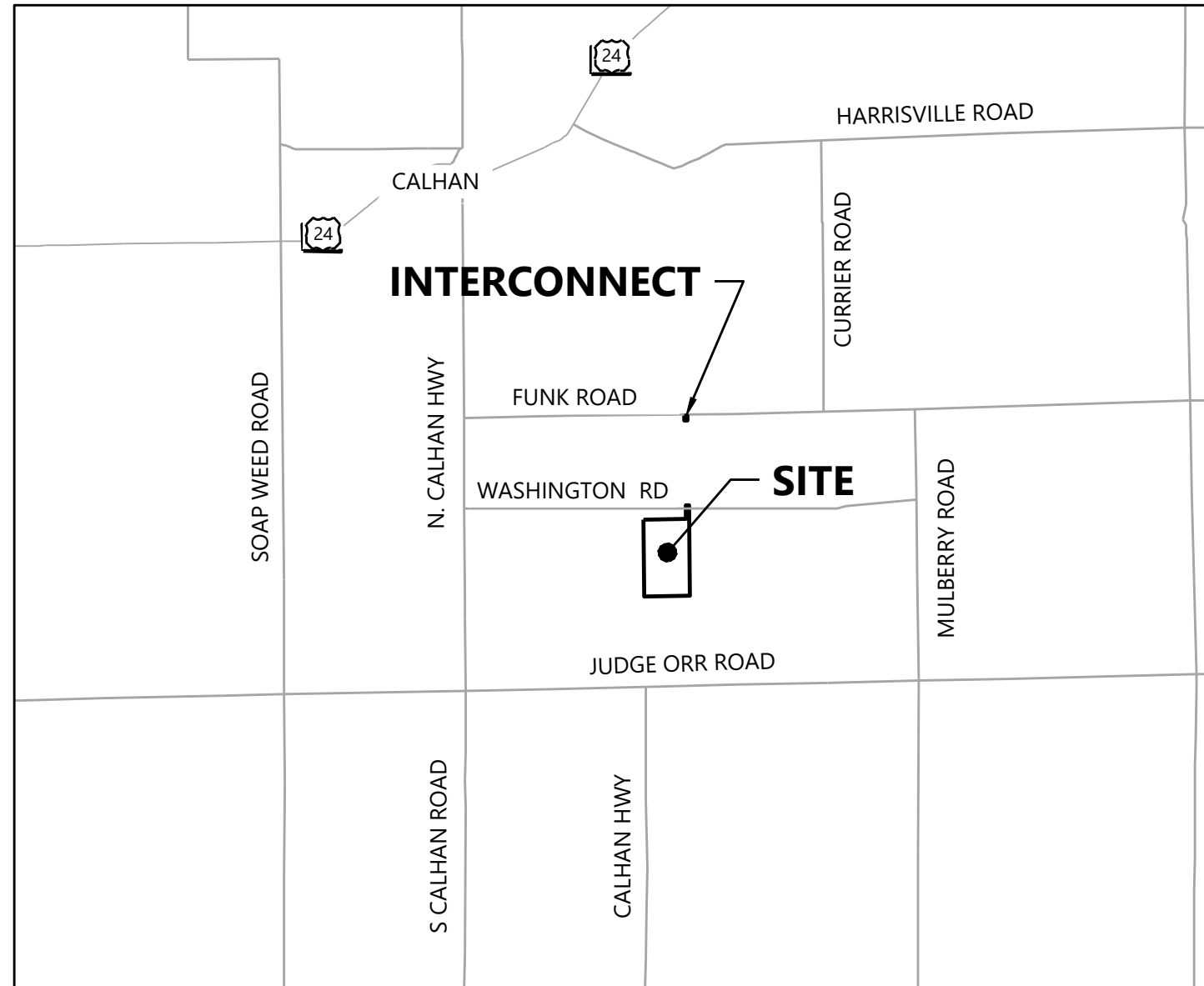
This appears to be an
early grading plan?

add a signature block
for the Director to
sign this site
development plan.

REGIONAL MAP



VICINITY MAP



Sheet List Table	
Sheet Number	Sheet Title
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C.110	Existing Conditions Plan
C.120	Demolition Plan
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C.304	Civil Plan Set - 5
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DR.01	Detention Basin Drainage Plan

Sheet List Table	
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Sheet List Table	
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CVP01	Cover Sheet
INDX	Sheet Index
SPP0A	Overall Site Grading & Erosion Control Plan
SPP01	Grading & Erosion Control - Sheet 1
SPP02	Grading & Erosion Control - Sheet 2
SPP03	Grading & Erosion Control - Sheet 3
SPP04	Grading & Erosion Control - Sheet 4
SPP05	Grading & Erosion Control - Sheet 5
SPP06	Grading & Erosion Control - Sheet 6
SPP07	Grading & Erosion Control - Sheet 7
SPP08	Route to Interconnect Erosion Control Plan- Sheet 8
PL01	Re-Seeding Plan
ND01	Notes and Details - Sheet 1
ND02	Notes and Details - Sheet 2
ND03	Notes and Details - Sheet 3
ND04	Notes and Details - Sheet 4
ND05	Notes and Details - Sheet 5
ND06	Notes and Details - Sheet 6

PROJECT ADDRESS:
Washington Road and McQueen Road
Calhan, Colorado

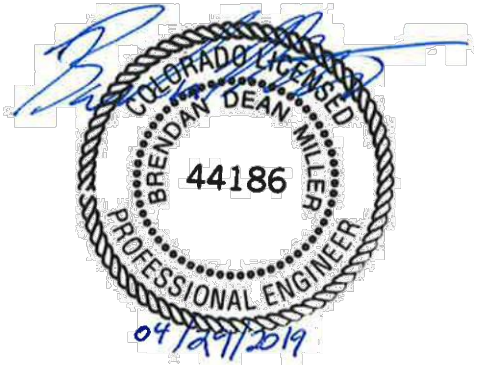
See comment on the Drainage report. provide a facility that has
an outlet structure that meets UDFCD details, (Sand Filter Basin
with Full Spectrum outlet structure.

Sign-off by El Paso County Engineering will be on the Grading
and Erosion Control Plans. However, PCD Engineering will
review the Site Development Plan when resubmitted to address
the PCD project managers comments (in green).

Westwood

Phone (720) 531-8350 10170 Church Ranch Way, Suite #100
Westminster, CO 80021
westwoodps.com

Westwood Professional Services, Inc.



PREPARED FOR:



REVISIONS:		
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Grazing Yak Solar

El Paso County, Colorado

Cover Sheet

DATE: 04/29/2019

SHEET: C.100

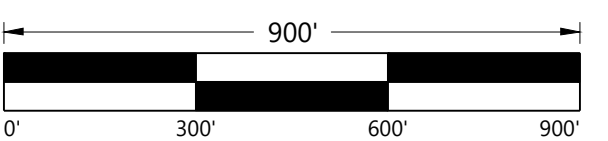


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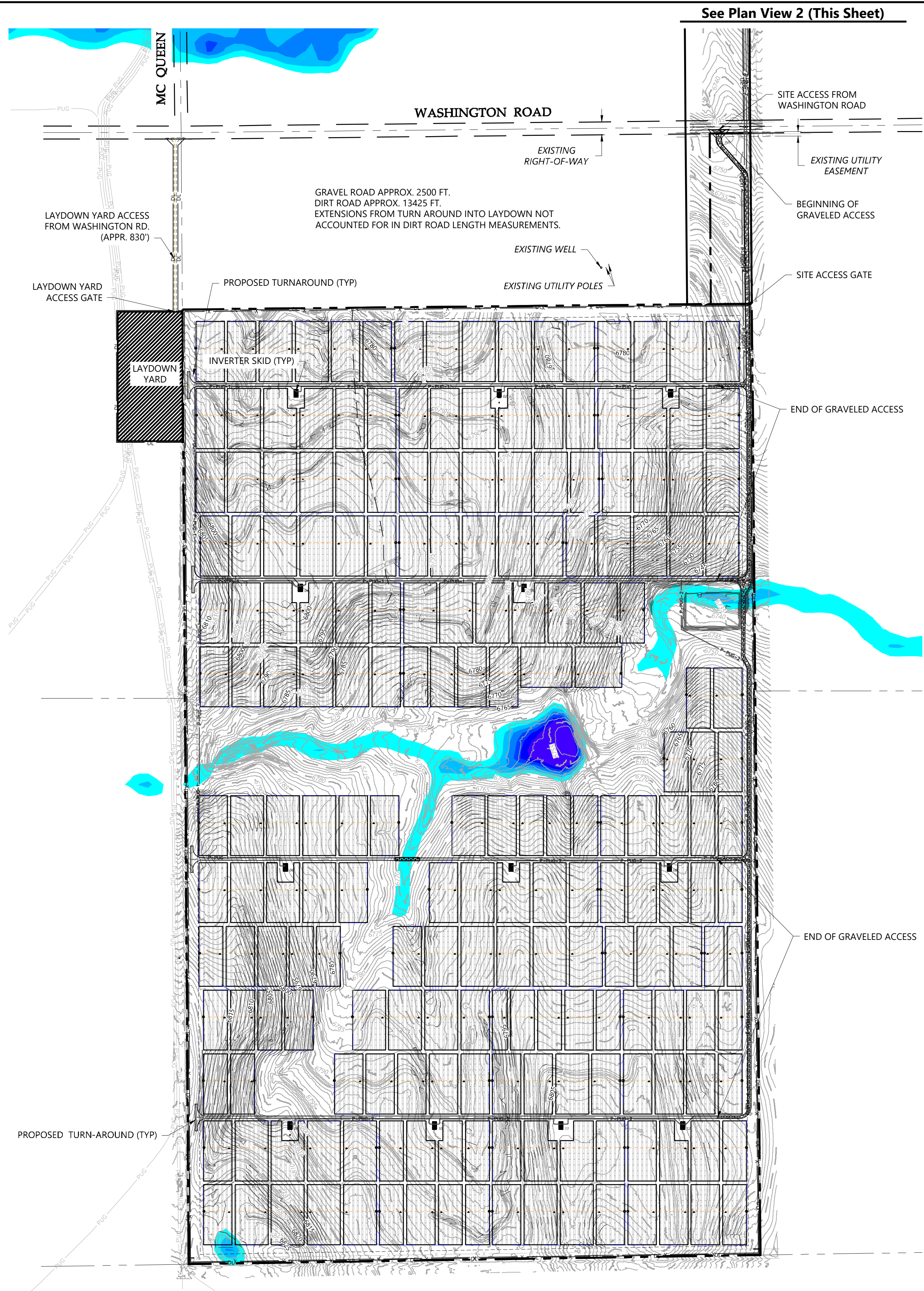
Grazing Yak Solar

El Paso County, Colorado

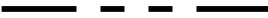



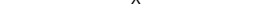







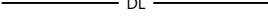

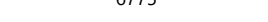









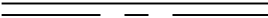

Overall Site Plan

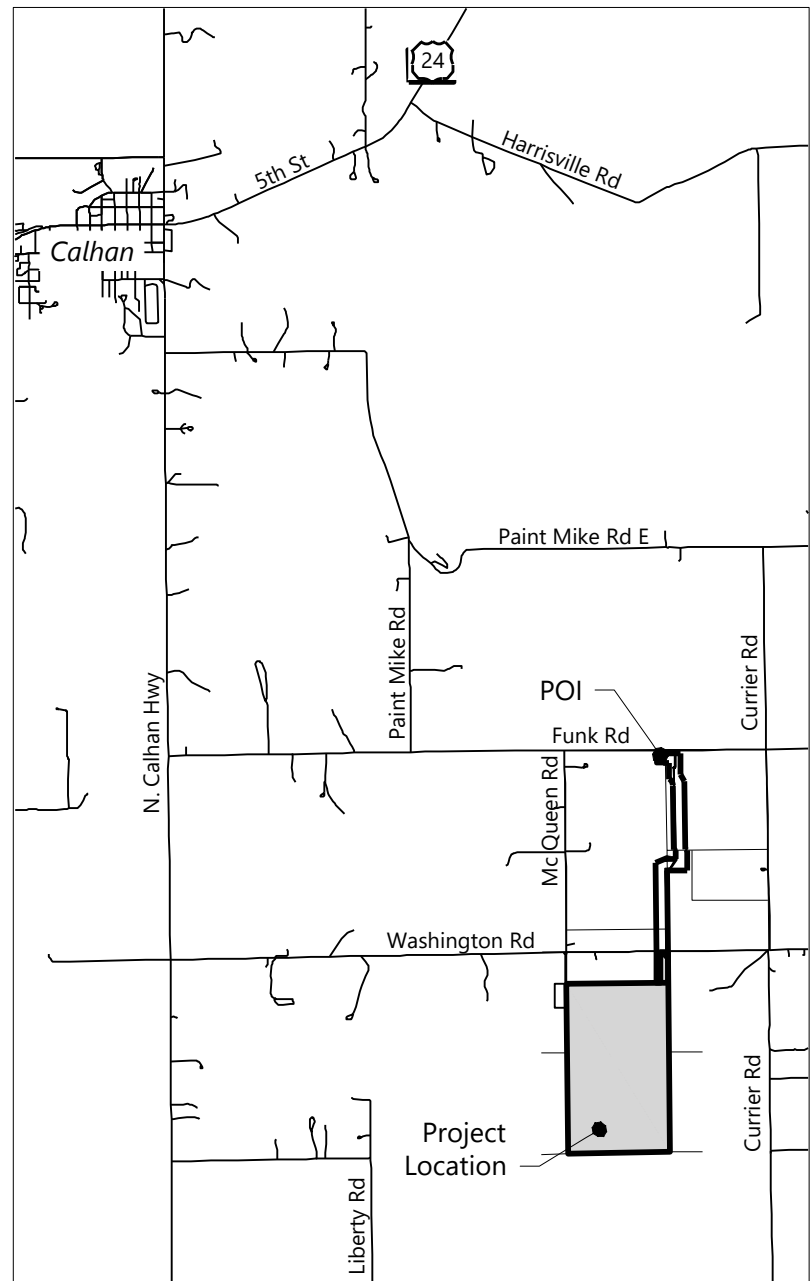
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






LEGEND & ABBREVIATIONS

	EX. PROJECT BOUNDARY LINE
	INVERTER BLOCK BOUNDARY
	PROPOSED UNDERGROUND CIRCUIT 1
	PROPOSED UNDERGROUND CIRCUIT 2
	PROPOSED FENCE LINE
	PROPOSED SOLAR TRACKER
	BOUNDARY SET BACK LINE 10M
	BOUNDARY SET BACK LINE 15M
	PROPOSED GRAVEL ACCESS RD. (2500 FT.)
	PROPOSED DIRT ACCESS RD. (13,425 FT.)
	PROPOSED CAB
	PROPOSED LAYDOWN AREA
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED PROTECTED CROSSING
	PROPOSED INDEX CONTOUR LINE
	PROPOSED INTERVAL CONTOUR LINE
	EX. INDEX CONTOUR LINE
	EX. INTERVAL CONTOUR LINE
	EX. SECTION LINE
	EX. EASEMENT LINE
	EX. FENCE LINE
	EX. OVERHEAD POWERLINE
	EX. UNDERGROUND POWERLINE
	EX. FIBER OPTIC LINE
	EX. GRAVEL ROAD
	EX. ASPHALT PAVEMENT ROAD



VICINITY MAP
Scale: 1" = 5000'

Existing Topo Flood Depths		
0.500'	1.000'	
1.000'	1.500'	
1.500'	2.000'	
2.000'	2.500'	
2.500'	3.000'	
3.000'	5.000'	

Existing Topo Flood Dept

See Plan View 2 (This Sheet)

See Plan View 3 (This Sheet)

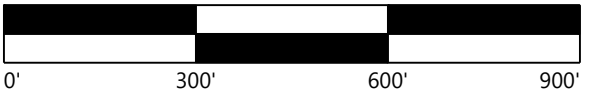
1 Plan View 1
1" = 300'

2 Plan View 2
1" = 300'

3 Plan View 3
1" = 300'



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El Paso County, Colorado

DATE: 04/29/2019

SHEET: C.110

See Plan View 2 (This Sheet)

WASHINGTON ROAD

MC QUEEN RD

Existing Wind Turbine

Existing Substation

FUNK ROAD

Existing Wind

See Plan View 2 (This Sheet)

1 Plan View 1
1" = 300'

See Plan View 1 (This Sheet)

See Plan View 3 (This Sheet)

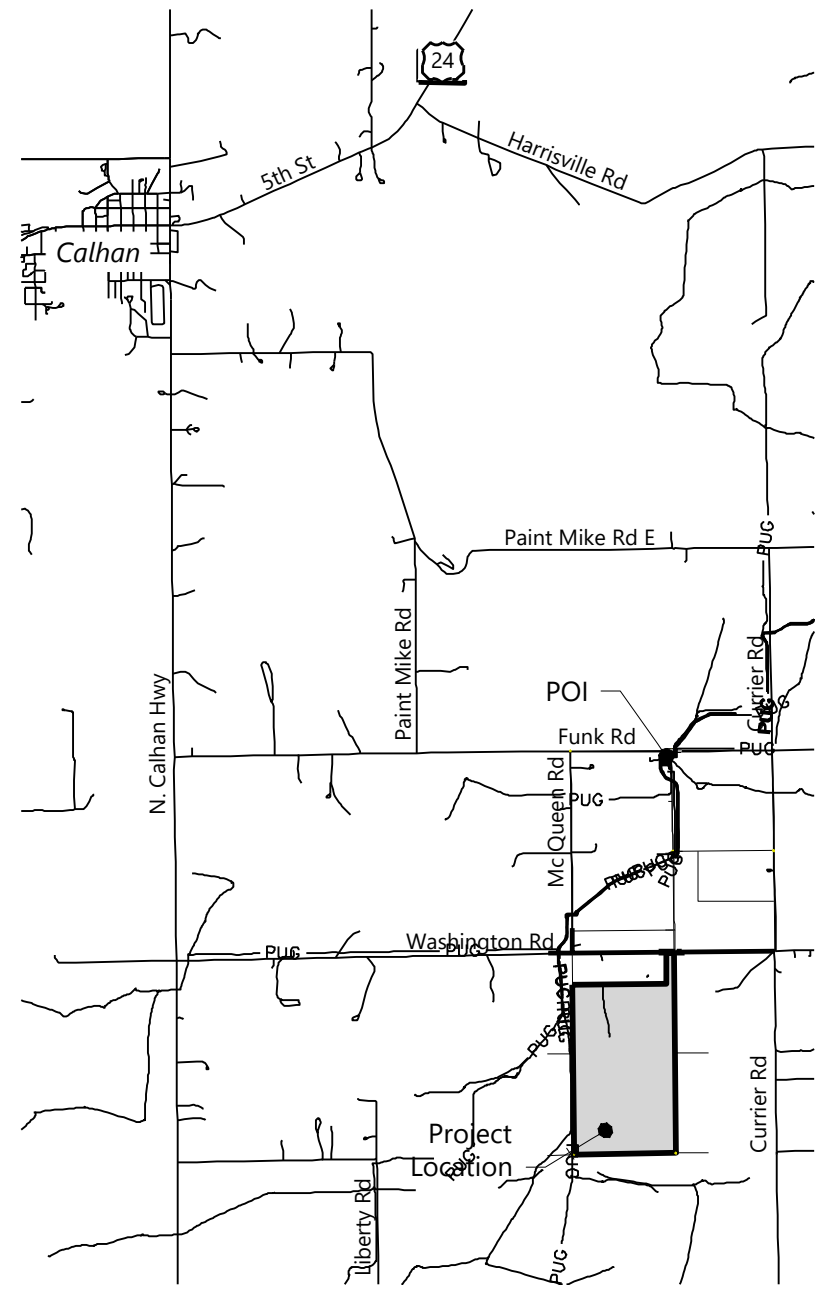
2 Plan View 2
1" = 300'

Plan View 3

$$1'' = 300'$$

LEGEND & ABBREVIATIONS

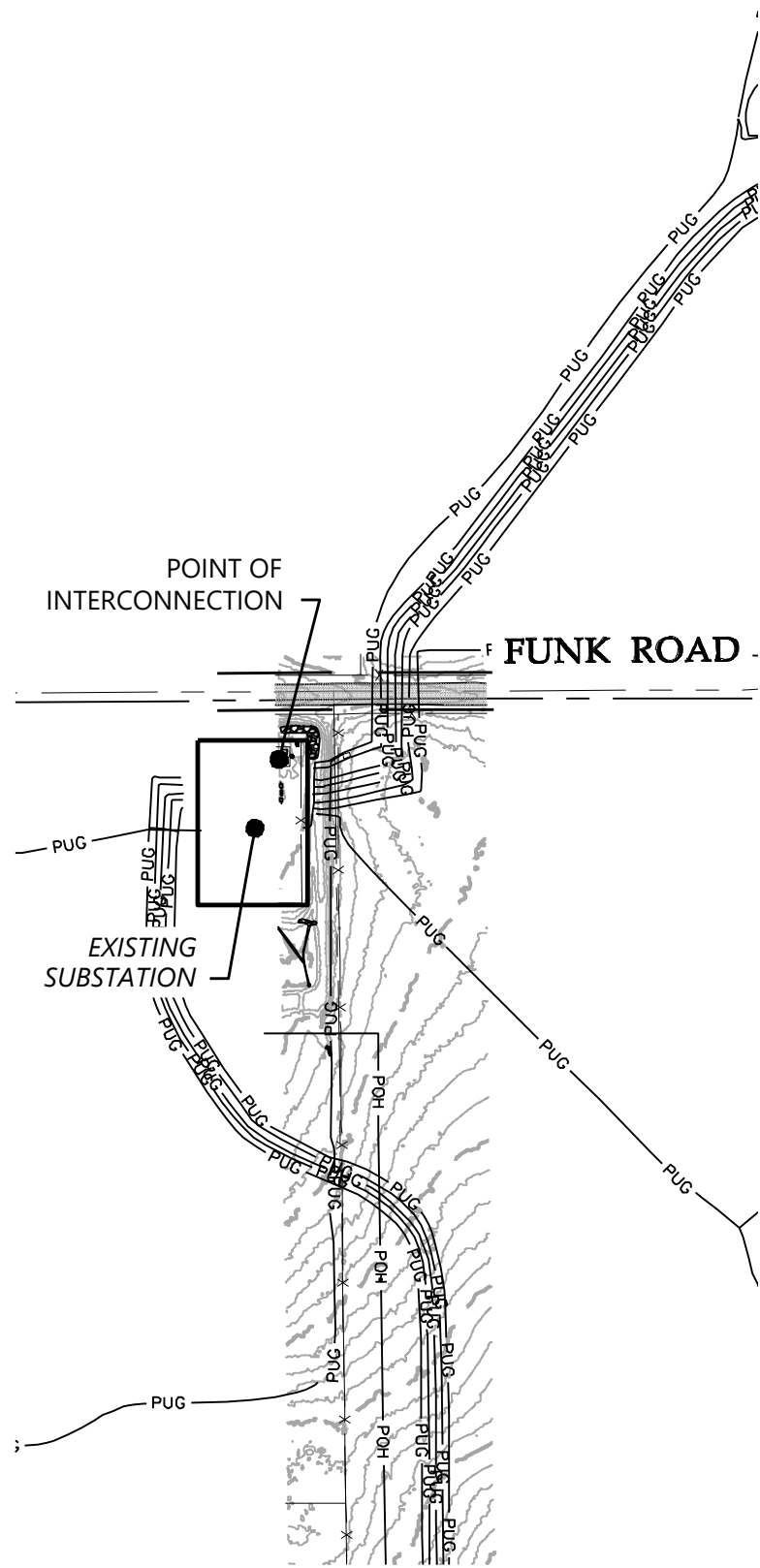
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	EX. INDEX CONTOUR LINE
	EX. INTERVAL CONTOUR LINE
	EX. SECTION LINE
	EX. EASEMENT LINE
	EX. FENCE LINE
	EX. OVERHEAD POWERLINE
	EX. UNDERGROUND POWERLINE
	EX. FIBER OPTIC LINE
	EX. OIL LINE
	EX. GRAVEL ROAD
	EX. ASPHALT PAVEMENT ROAD
	EX. BERM



VICINITY MAP

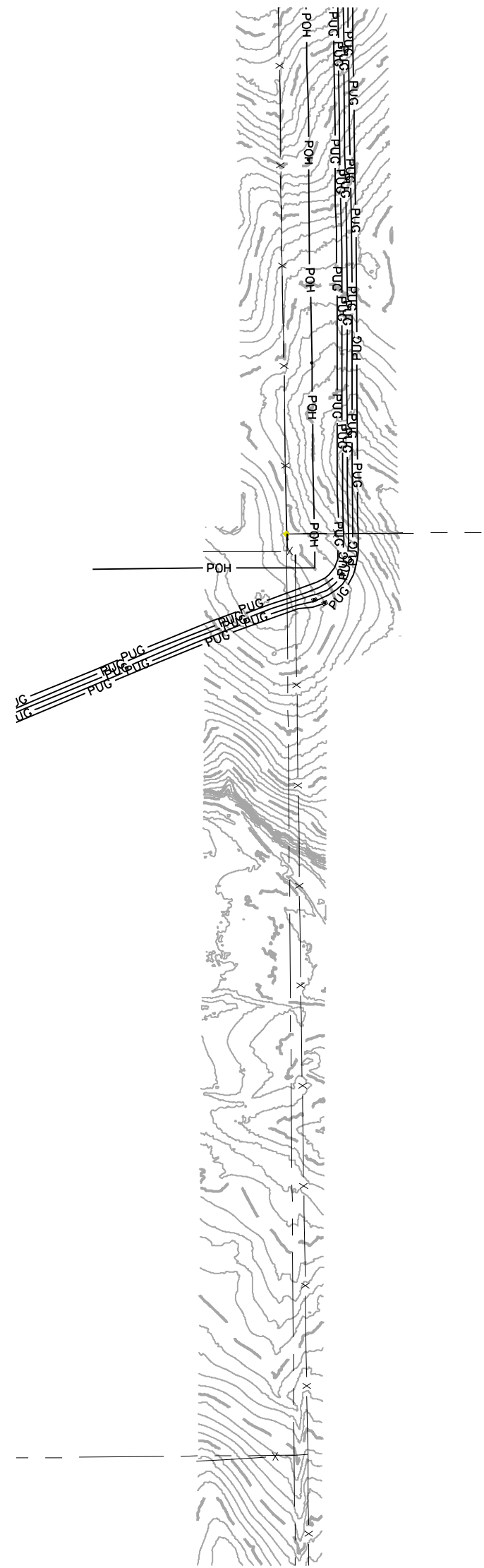
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See Plan View 2 (This Sheet)

1 Plan View 1
1" = 300'



See Plan View 1 (This Sheet)

See Plan View 3 (This Sheet)

2 Plan View 2
1" = 300'

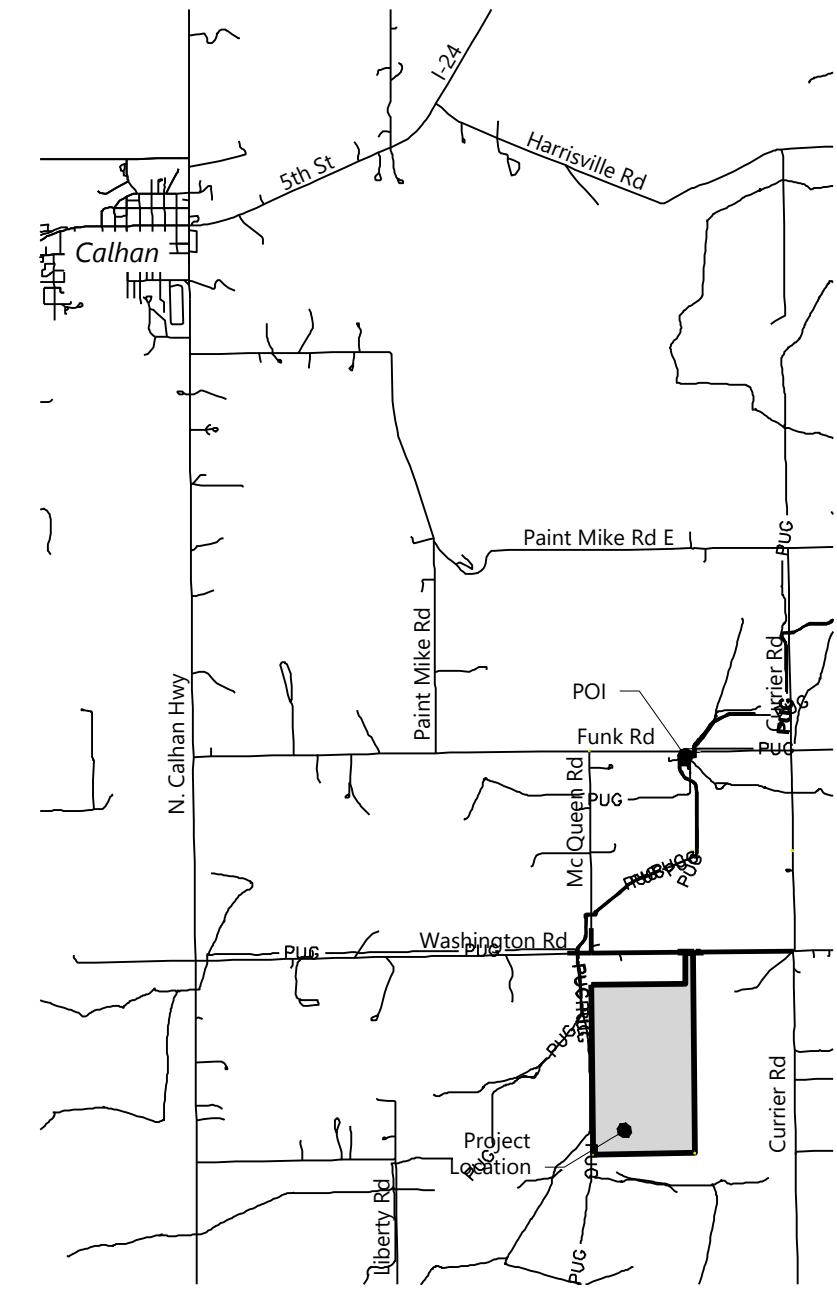


3 Plan View 3
1" = 300'

See Plan View 2 (This Sheet)

LEGEND & ABBREVIATIONS

---	EX. PROJECT BOUNDARY LINE
- 340 -	EX. INDEX CONTOUR LINE
---	EX. INTERVAL CONTOUR LINE
---	EX. SECTION LINE
---	EX. EASEMENT LINE
- x -	EX. FENCE LINE
POH	EX. OVERHEAD POWERLINE
PUG	EX. UNDERGROUND POWERLINE
FO	EX. FIBER OPTIC LINE
OIL	EX. OIL LINE
---	EX. GRAVEL ROAD
---	EX. ASPHALT PAVEMENT ROAD
---	EX. BERM
-X-X-X-X-X-X-X-X-	EX. BERM CUT



VICINITY MAP
Scale: 1" = 5000'

Westwood

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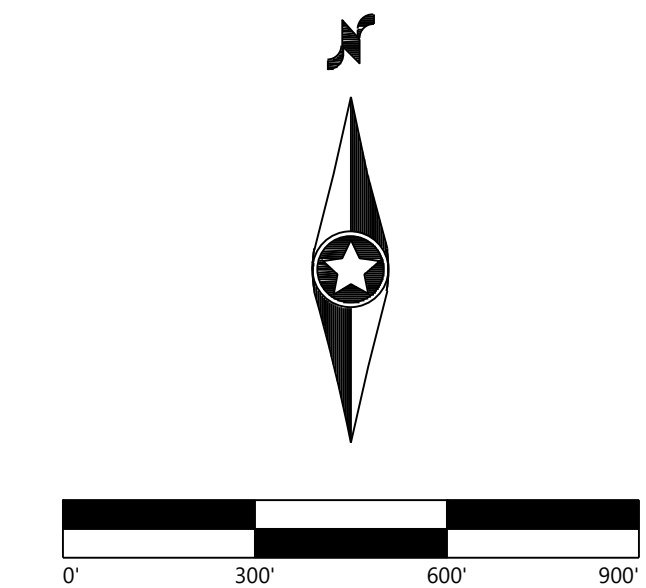
Westwood Professional Services, Inc.



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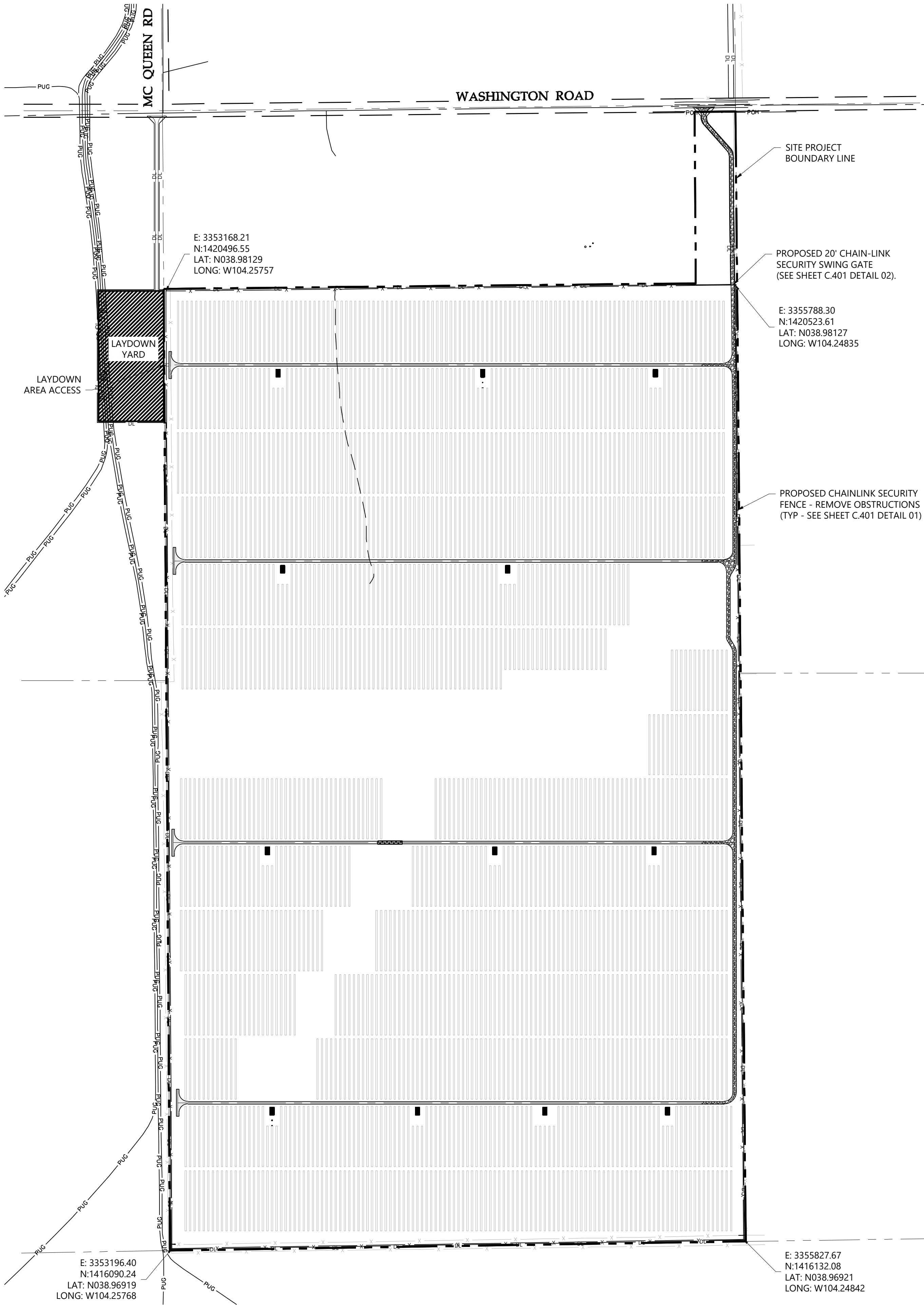
Grazing Yak Solar

El Paso County, Colorado

Demolition Plan

DATE: 04/29/2019

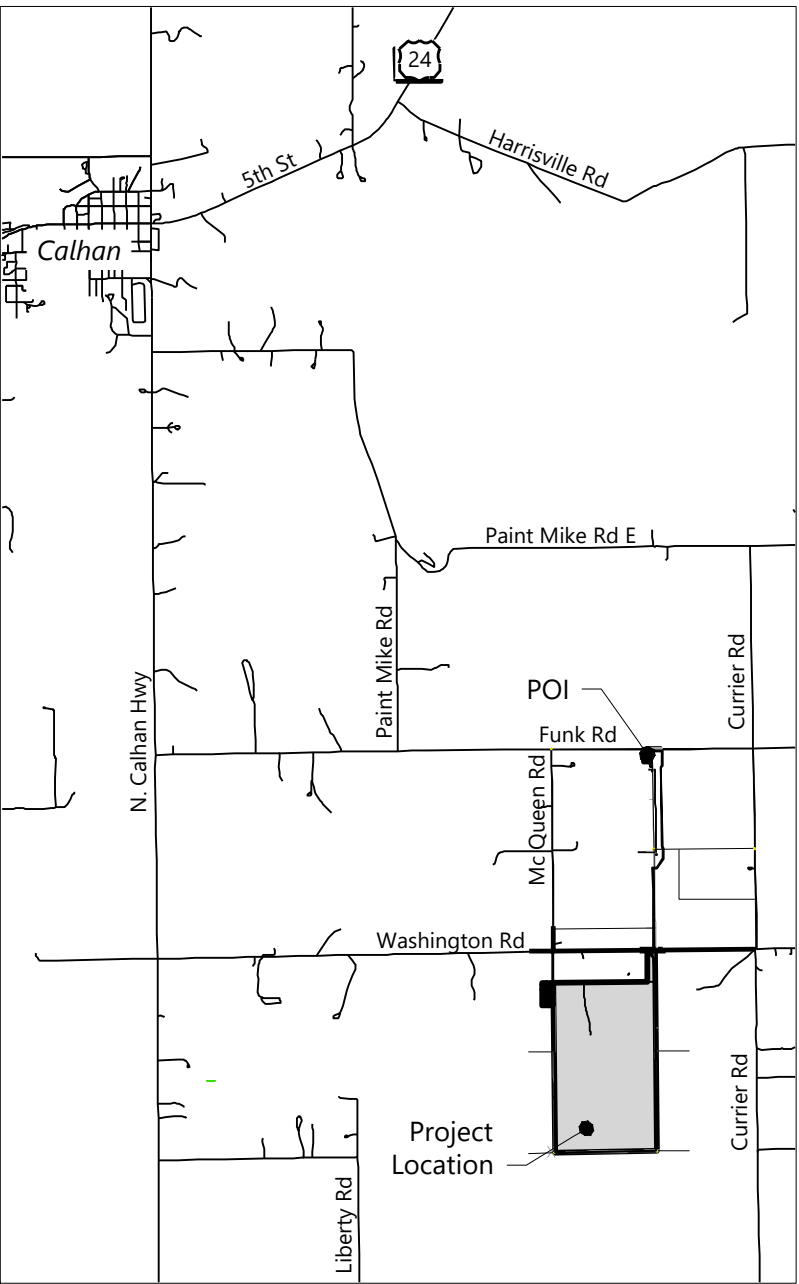
SHEET: C.120



LEGEND & ABBREVIATIONS

- EX. PROJECT BOUNDARY LINE
- EX. FENCE LINE
- PROPOSED SOLAR TRACKER
- PROPOSED INVERTER SKID
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED LAYDOWN AREA
- EX. SECTION LINE
- EX. EASEMENT LINE
- EX. FENCE LINE
- EX. OVERHEAD POWERLINE
- EX. UNDERGROUND POWERLINE
- EX. FIBER OPTIC LINE
- EX. GRAVEL ROAD
- EX. ASPHALT PAVEMENT ROAD
- PROPOSED SECURITY FENCE TURNING POINT

provided detail



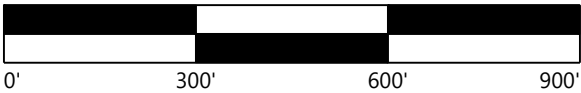
VICINITY MAP
Scale: 1" = 5000'



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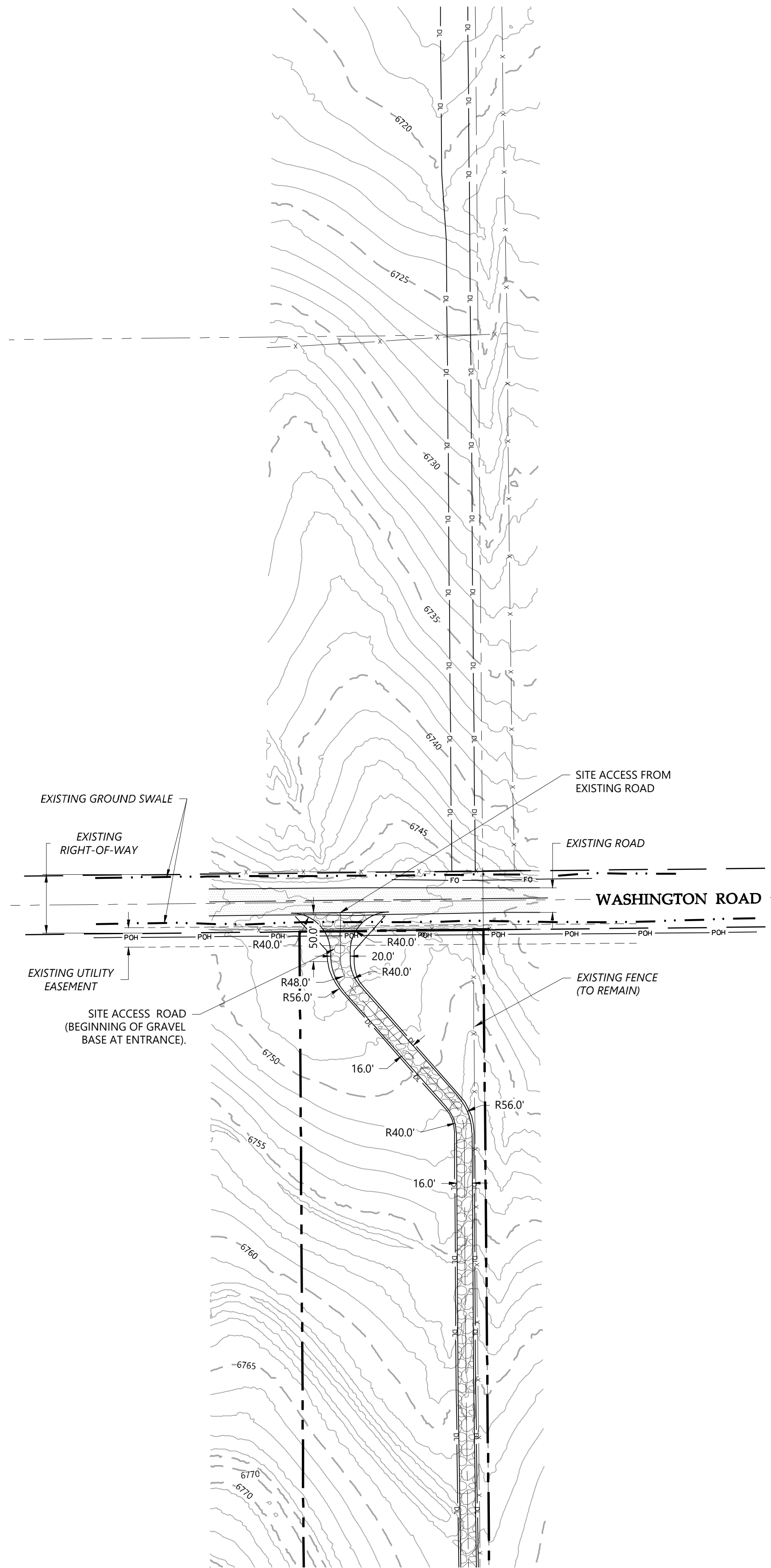
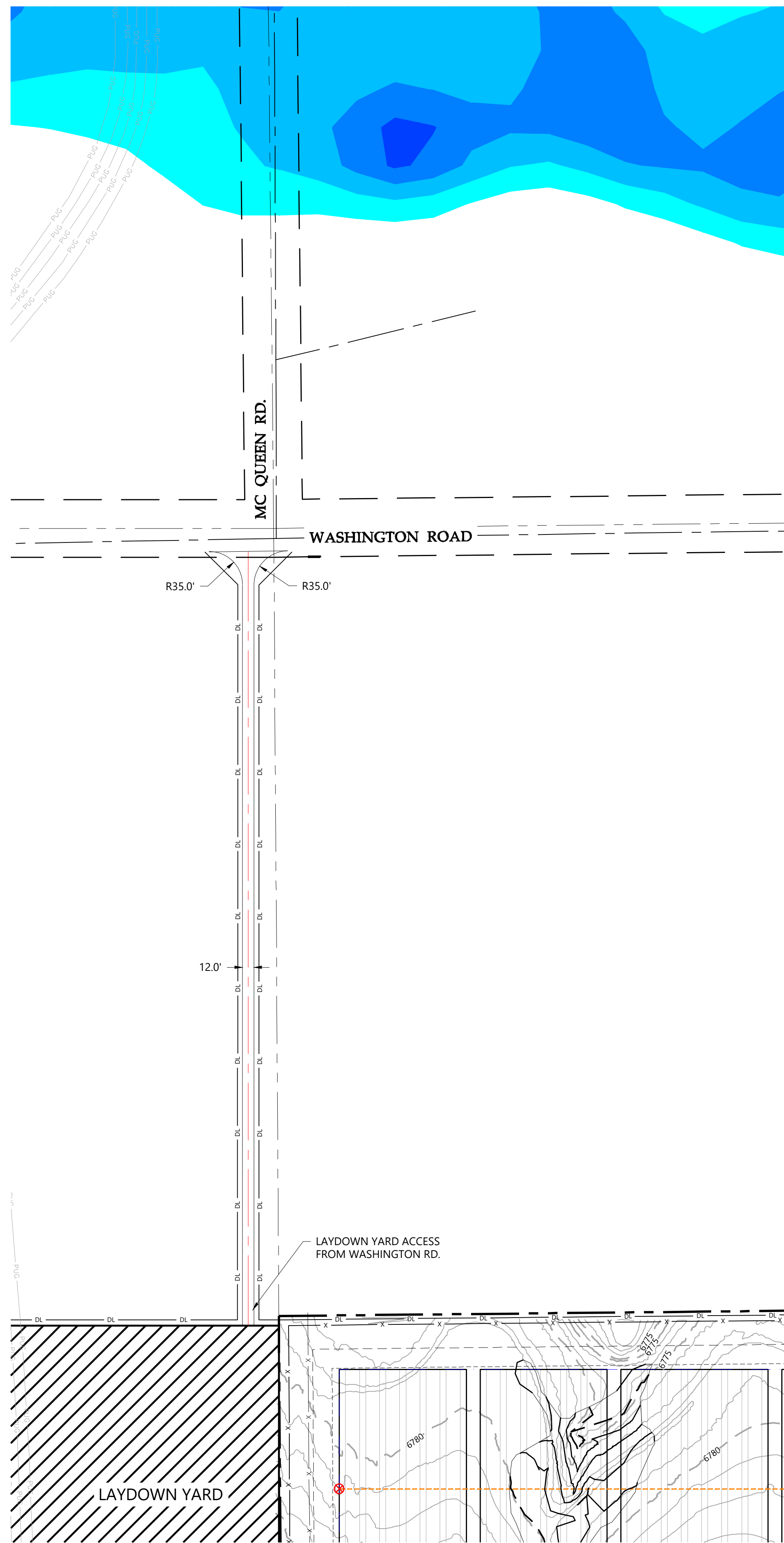
Grazing Yak
Solar

El Paso County, Colorado

Fence Plan

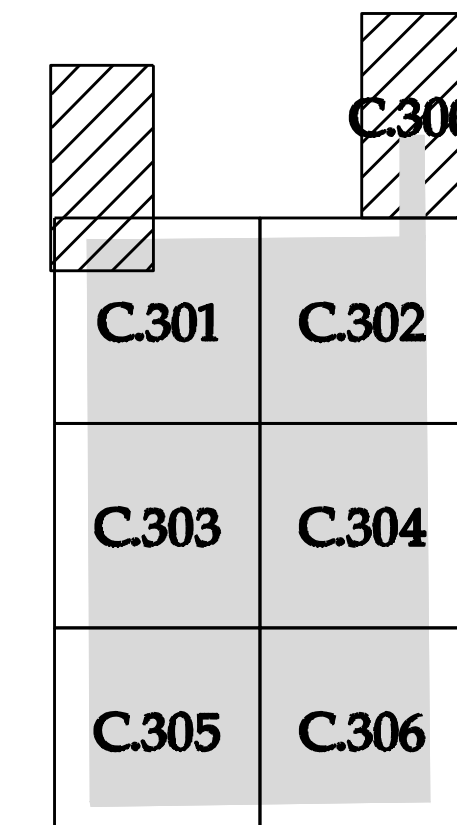
DATE: 04/29/2019

SHEET: C.210









LEGEND & ABBREVIATIONS

	EX. PROJECT BOUNDARY LINE
	INVERTER BLOCK BOUNDARY
	PROPOSED FENCE LINE
	PROPOSED SOLAR TRACKER
	55' EQUIPMENT SET BACK LINE
	PROPOSED GRAVELED ACCESS ROAD
	PROPOSED ACCESS RD. (NO GRAVEL)
	PROPOSED CAB
	PROPOSED DEAD END POST (IF REQ'D)
	PROPOSED SECONDARY CAB
	PROPOSED LAYDOWN AREA
	PROPOSED PROTECTED CROSSING
	PROPOSED GRADING LIMITS
	EX. INDEX CONTOUR LINE
	EX. INTERVAL CONTOUR LINE
	EX. SECTION LINE
	EX. EASEMENT LINE
	EX. FENCE LINE
	EX. OVERHEAD POWERLINE
	EX. UTILITY POLE
	EX. UNDERGROUND ELECTRICAL
	EX. FIBER OPTIC LINE
	EX. OIL LINE
	EX. GRAVEL ROAD
	EX. ASPHALT PAVEMENT ROAD
	EX. ROAD CENTERLINE
	EX. TRAIL CENTERLINE
	EX. GROUND SWALE
	EX. RIGHT OF WAY LINE
	INVERTER/TRANSFORMER SKID



KEYMAP
Scale: 1"=1500'

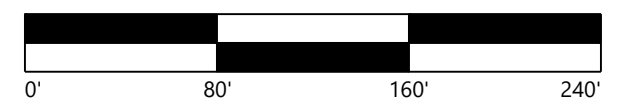
Existing Topo Flood Depths		
0.500'	1.000'	
1.000'	1.500'	
1.500'	2.000'	
2.000'	2.500'	
2.500'	3.000'	
3.000'	5.000'	



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Grazing Yak Solar

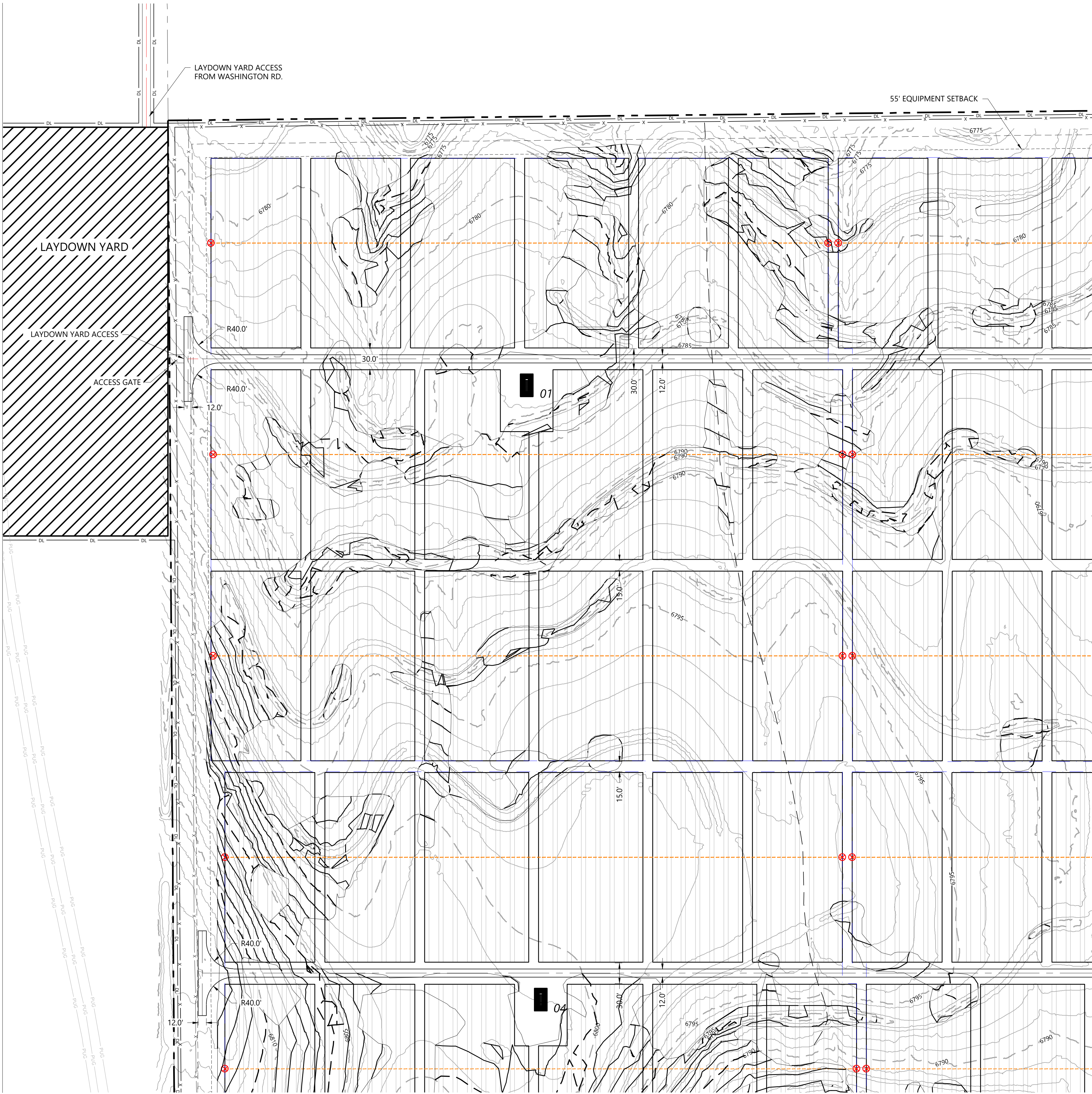
El Paso County, Colorado

Civil Plan Set - 1

DATE: 04/29/2019

SHEET: C.300

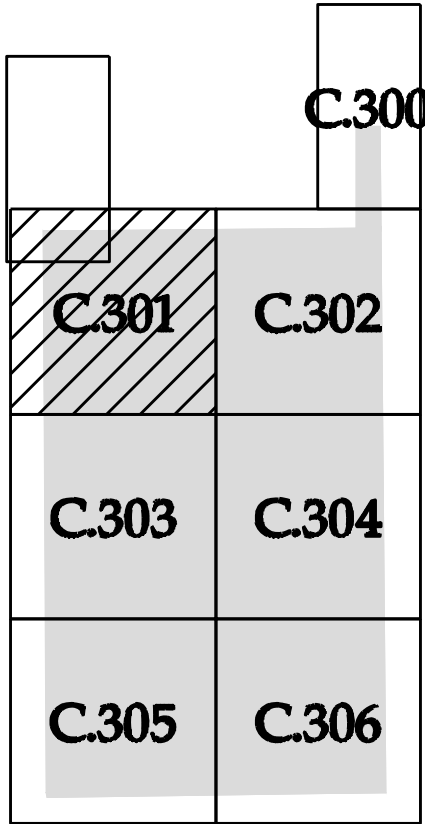
SEE SHEET C.300



SEE SHEET C.303

LEGEND & ABBREVIATIONS

- EX. PROJECT BOUNDARY LINE
- INVERTER BLOCK BOUNDARY
- PROPOSED FENCE LINE
- PROPOSED SOLAR TRACKER
- 55' EQUIPMENT SET BACK LINE
- PROPOSED GRAVELED ACCESS ROAD
- PROPOSED ACCESS RD. (NO GRAVEL)
- PROPOSED CAB
- PROPOSED DEAD END POST (IF REQ'D)
- PROPOSED SECONDARY CAB
- PROPOSED LAYDOWN AREA
- PROPOSED PROTECTED CROSSING
- PROPOSED GRADING LIMITS
- EX. INDEX CONTOUR LINE
- EX. INTERVAL CONTOUR LINE
- EX. SECTION LINE
- EX. EASEMENT LINE
- EX. FENCE LINE
- EX. OVERHEAD POWERLINE
- EX. UTILITY POLE
- EX. UNDERGROUND ELECTRICAL
- EX. FIBER OPTIC LINE
- EX. OIL LINE
- EX. GRAVEL ROAD
- EX. ASPHALT PAVEMENT ROAD
- EX. ROAD CENTERLINE
- EX. TRAIL CENTERLINE
- EX. GROUND SWALE
- EX. RIGHT OF WAY LINE
- INVERTER/TRANSFORMER SKID



KEYMAP
Scale: 1"=1500'

Existing Topo Flood Depths		
0.500'	1.000'	
1.000'	1.500'	
1.500'	2.000'	
2.000'	2.500'	
2.500'	3.000'	
3.000'	5.000'	

Westwood

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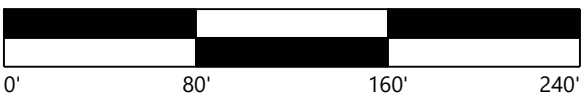
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Grazing Yak Solar

El Paso County, Colorado

Civil Plan Set - 2

DATE: 04/29/2019

SHEET: C.301

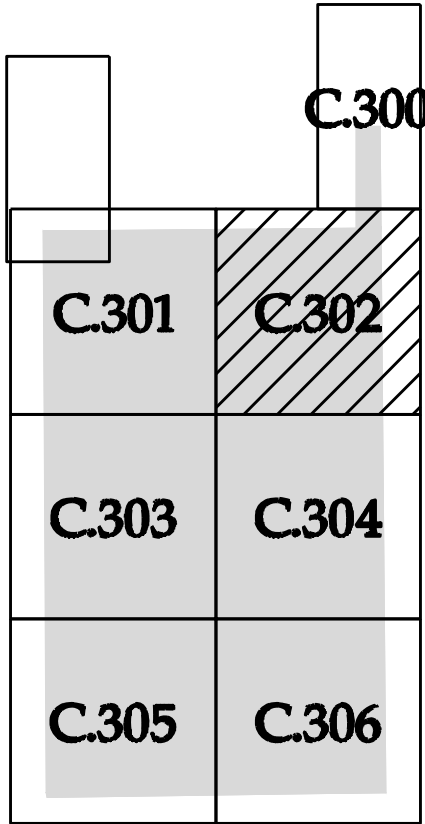
SEE SHEET C.300



SEE SHEET C.304

LEGEND & ABBREVIATIONS

- EX. PROJECT BOUNDARY LINE
- INVERTER BLOCK BOUNDARY
- PROPOSED FENCE LINE
- PROPOSED SOLAR TRACKER
- 55' EQUIPMENT SET BACK LINE
- PROPOSED GRAVELED ACCESS ROAD
- PROPOSED ACCESS RD. (NO GRAVEL)
- PROPOSED CAB
- PROPOSED DEAD END POST (IF REQ'D)
- PROPOSED SECONDARY CAB
- PROPOSED LAYDOWN AREA
- PROPOSED PROTECTED CROSSING
- PROPOSED GRADING LIMITS
- EX. INDEX CONTOUR LINE
- EX. INTERVAL CONTOUR LINE
- EX. SECTION LINE
- EX. EASEMENT LINE
- EX. FENCE LINE
- EX. OVERHEAD POWERLINE
- EX. UTILITY POLE
- EX. UNDERGROUND ELECTRICAL
- EX. FIBER OPTIC LINE
- EX. OIL LINE
- EX. GRAVEL ROAD
- EX. ASPHALT PAVEMENT ROAD
- EX. ROAD CENTERLINE
- EX. TRAIL CENTERLINE
- EX. GROUND SWALE
- EX. RIGHT OF WAY LINE
- INVERTER/TRANSFORMER SKID



KEYMAP
Scale: 1"=1500'

See comment on the Drainage report. provide a facility that has an outlet structure that meets UDFCD details, (Sand Filter Basin with Full Spectrum outlet structure).

Existing Topo Flood Depths		
0.500'	1.000'	
1.000'	1.500'	
1.500'	2.000'	
2.000'	2.500'	
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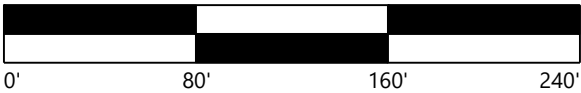
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Grazing Yak Solar

El Paso County, Colorado

Civil Plan Set - 3

DATE: 04/29/2019

SHEET: C.302

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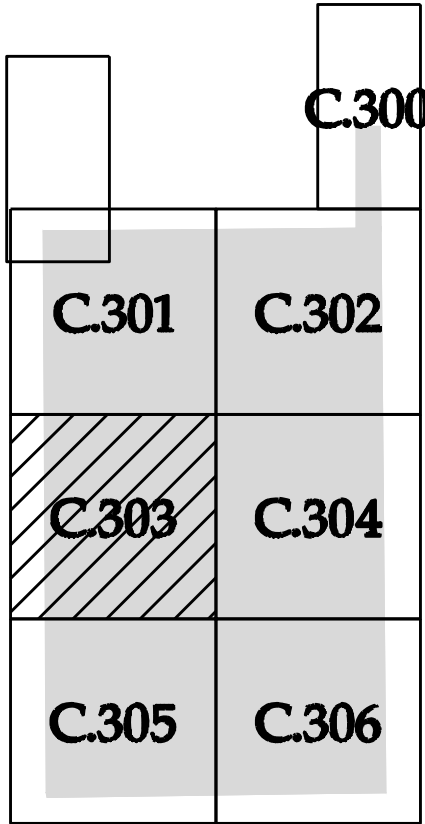
SEE SHEET C.301

SEE SHEET C.304

SEE SHEET C.305

LEGEND & ABBREVIATIONS

- EX. PROJECT BOUNDARY LINE
- INVERTER BLOCK BOUNDARY
- PROPOSED FENCE LINE
- PROPOSED SOLAR TRACKER
- 55' EQUIPMENT SET BACK LINE
- PROPOSED GRAVELED ACCESS ROAD
- PROPOSED ACCESS RD. (NO GRAVEL)
- PROPOSED CAB
- PROPOSED DEAD END POST (IF REQ'D)
- PROPOSED SECONDARY CAB
- PROPOSED LAYDOWN AREA
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- PROPOSED GRADING LIMITS
- EX. INDEX CONTOUR LINE
- EX. INTERVAL CONTOUR LINE
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- EX. FIBER OPTIC LINE
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- EX. GRAVEL ROAD
- EX. ASPHALT PAVEMENT ROAD
- EX. ROAD CENTERLINE
- EX. TRAIL CENTERLINE
- EX. GROUND SWALE
- EX. RIGHT OF WAY LINE
- INVERTER/TRANSFORMER SKID



Scale: 1"=1500'

Existing Topo Flood Depths		
0.500'	1.000'	
1.000'	1.500'	
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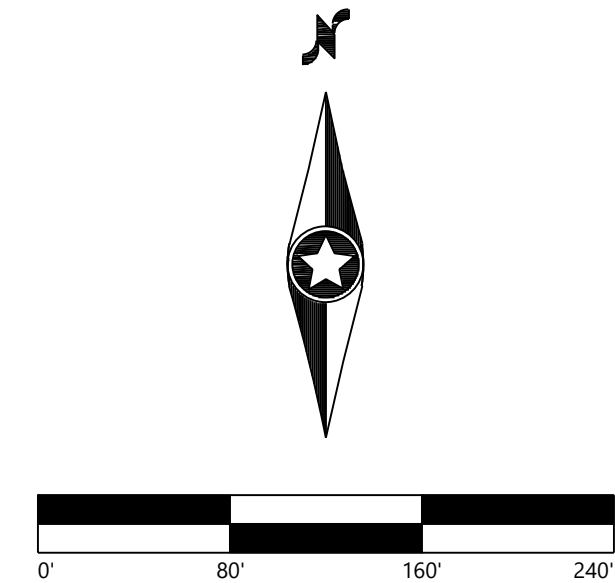
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B	03/28/19	Issued for Review (60%)
C	04/22/19	Permit Submittal Revisions
D	04/26/19	Issued for Review (90%)
E	04/29/19	Issued for Grading Permit



Grazing Yak Solar

El Paso County, Colorado

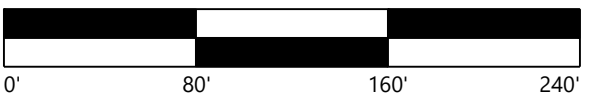
Civil Plan Set - 4

DATE: 04/29/2019

SHEET: C.303



DATE	COMMENT
02/27/19	Issued for Review (30%)
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04/22/19	Permit Submittal Revisions
04/26/19	Issued for Review (90%)
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































El Paso County, Colorado

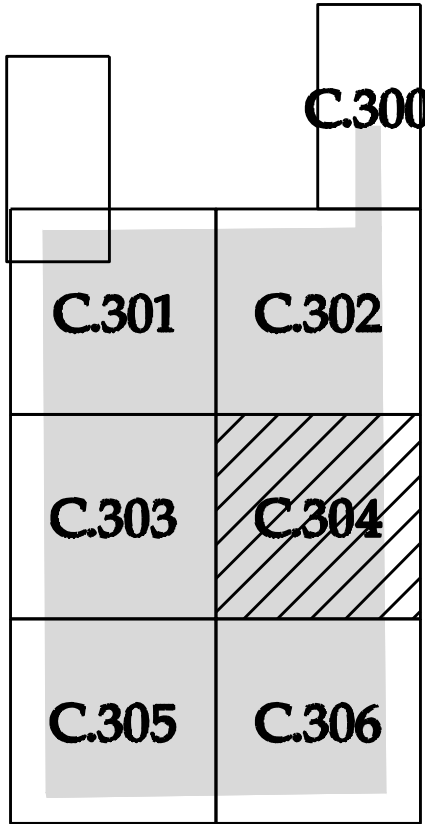
DATE: 04/29/2019

SHEET: C.304









LEGEND & ABBREVIATIONS

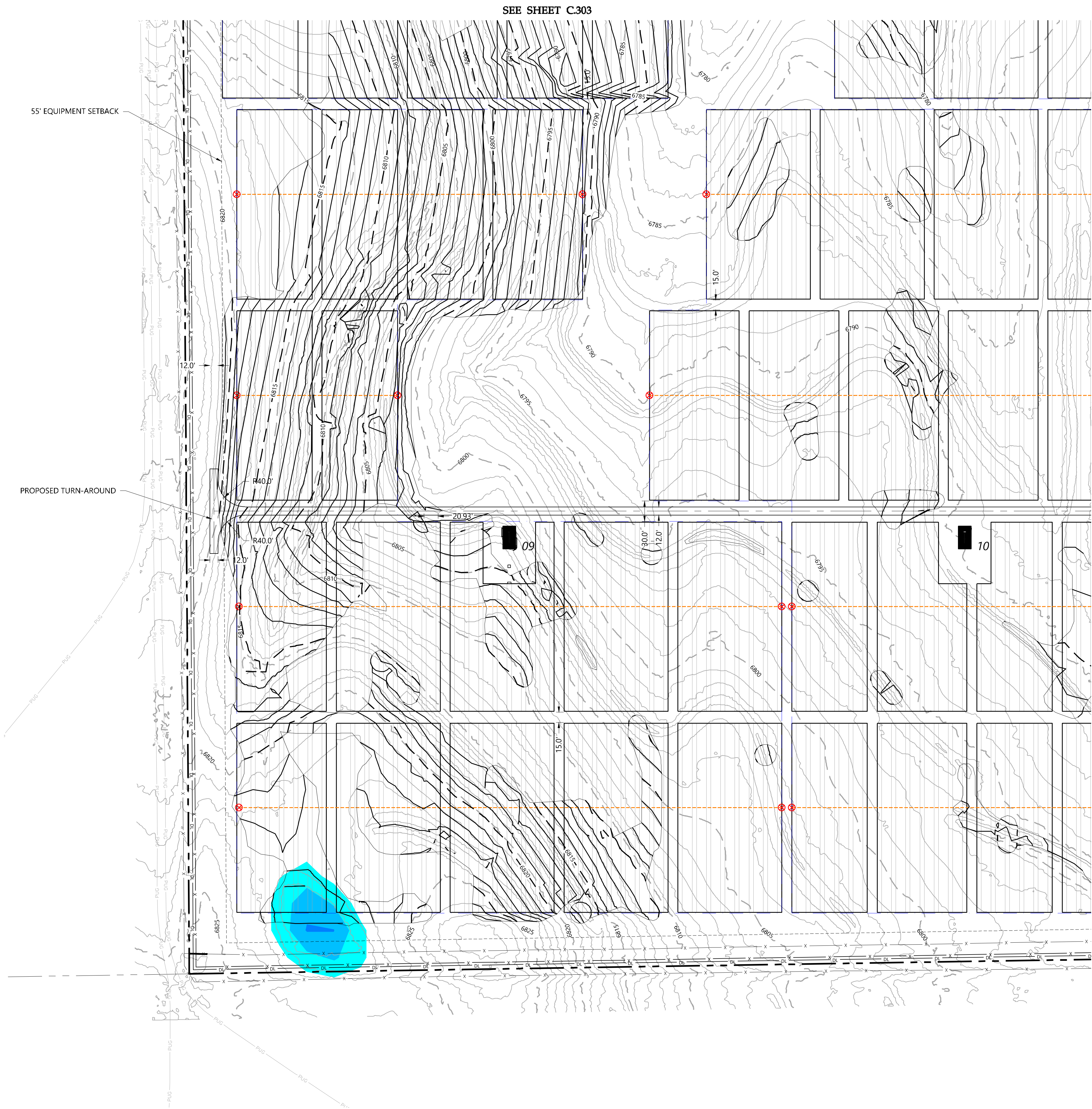
	INVERTER/TRANSFORMER SKID
	PROPOSED SOLAR TRACKER
	PROPOSED FENCE LINE
	PROPOSED ACCESS RD. (NO GRAVEL)
	PROPOSED GRAVELED ACCESS ROAD
	PROPOSED GRADING LIMITS
	PROPOSED PROTECTED CROSSING
	PROPOSED SECONDARY CAB
	PROPOSED LAYDOWN AREA
	PROPOSED DEAD END POST (IF REQ'D)
	PROPOSED CAB
	55' EQUIPMENT SET BACK LINE
	PROPOSED GRAVELED ACCESS ROAD
	PROPOSED ACCESS RD. (NO GRAVEL)
	PROPOSED FENCE LINE
	PROPOSED SOLAR TRACKER
	55' EQUIPMENT SET BACK LINE
	PROPOSED GRAVELED ACCESS ROAD
	PROPOSED ACCESS RD. (NO GRAVEL)
	PROPOSED FENCE LINE
	PROPOSED SOLAR TRACKER
	55' EQUIPMENT SET BACK LINE
	PROPOSED GRAVELED ACCESS ROAD
	PROPOSED ACCESS RD. (NO GRAVEL)
	PROPOSED FENCE LINE
	PROPOSED SOLAR TRACKER
	55' EQUIPMENT SET BACK LINE
	PROPOSED GRAVELED ACCESS ROAD
	PROPOSED ACCESS RD. (NO GRAVEL)
	PROPOSED FENCE LINE
	PROPOSED SOLAR TRACKER
	55' EQUIPMENT SET BACK LINE
	PROPOSED GRAVELED ACCESS ROAD
	PROPOSED ACCESS RD. (NO GRAVEL)



KEYMAP
Scale: 1"=1500'

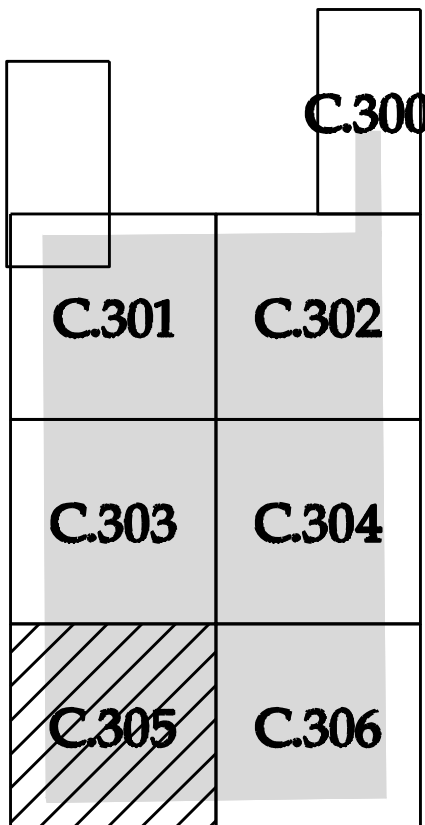
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1.500'	2.000'	
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2.500'	3.000'	
3.000'	5.000'	

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LEGEND & ABBREVIATIONS

- EX. PROJECT BOUNDARY LINE
- INVERTER BLOCK BOUNDARY
- PROPOSED FENCE LINE
- PROPOSED SOLAR TRACKER
- 55' EQUIPMENT SET BACK LINE
- PROPOSED GRAVELED ACCESS ROAD
- PROPOSED ACCESS RD. (NO GRAVEL)
- PROPOSED CAB
- PROPOSED DEAD END POST (IF REQ'D)
- PROPOSED SECONDARY CAB
- PROPOSED LAYDOWN AREA
- PROPOSED PROTECTED CROSSING
- PROPOSED GRADING LIMITS
- EX. INDEX CONTOUR LINE
- EX. INTERVAL CONTOUR LINE
- EX. SECTION LINE
- EX. EASEMENT LINE
- EX. FENCE LINE
- EX. OVERHEAD POWERLINE
- EX. UTILITY POLE
- EX. UNDERGROUND ELECTRICAL
- EX. FIBER OPTIC LINE
- EX. OIL LINE
- EX. GRAVEL ROAD
- EX. ASPHALT PAVEMENT ROAD
- EX. ROAD CENTERLINE
- EX. TRAIL CENTERLINE
- EX. GROUND SWALE
- EX. RIGHT OF WAY LINE
- INVERTER/TRANSFORMER SKID



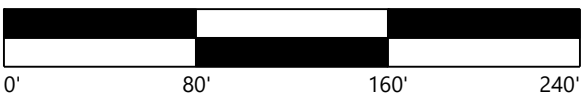
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2.500'	3.000'	
3.000'	5.000'	



PREPARED FOR:



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Grazing Yak Solar

El Paso County, Colorado

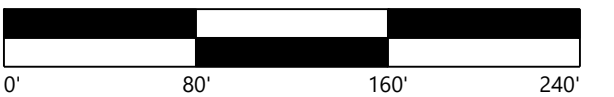
Civil Plan Set - 6

DATE: 04/29/2019

SHEET: C.305

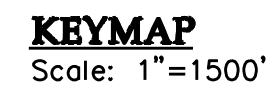








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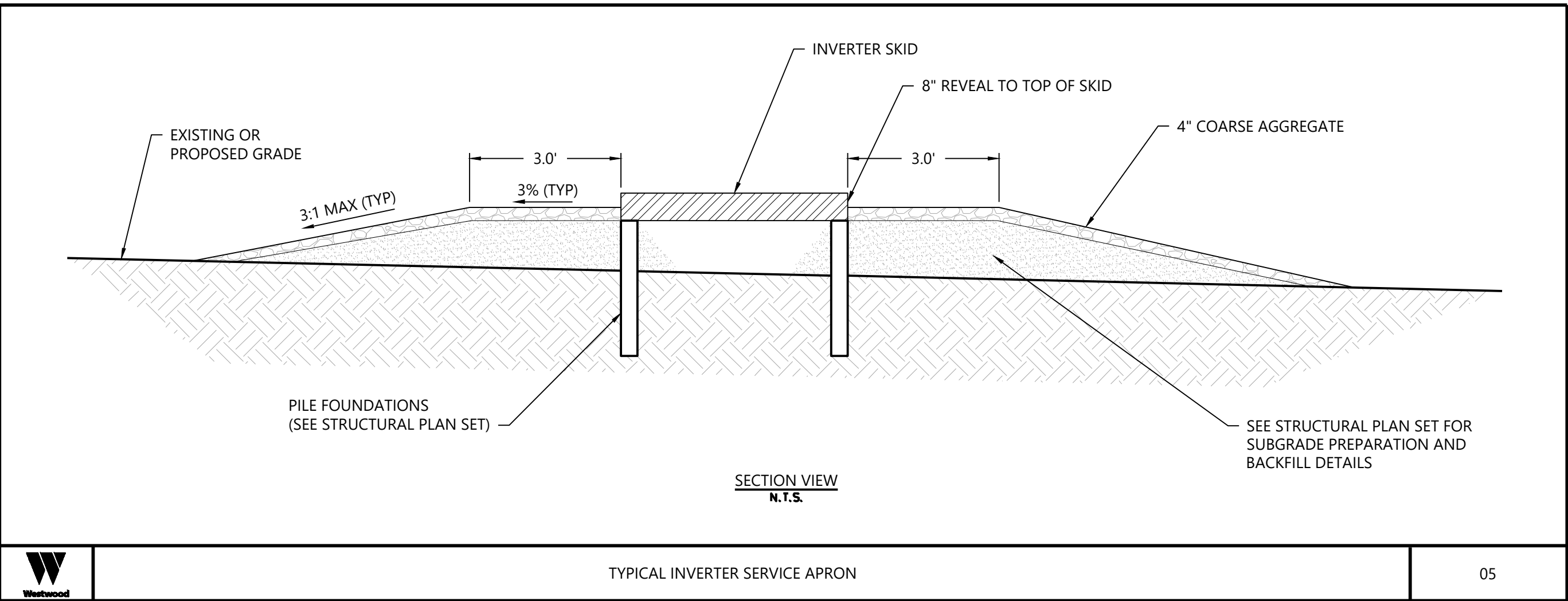
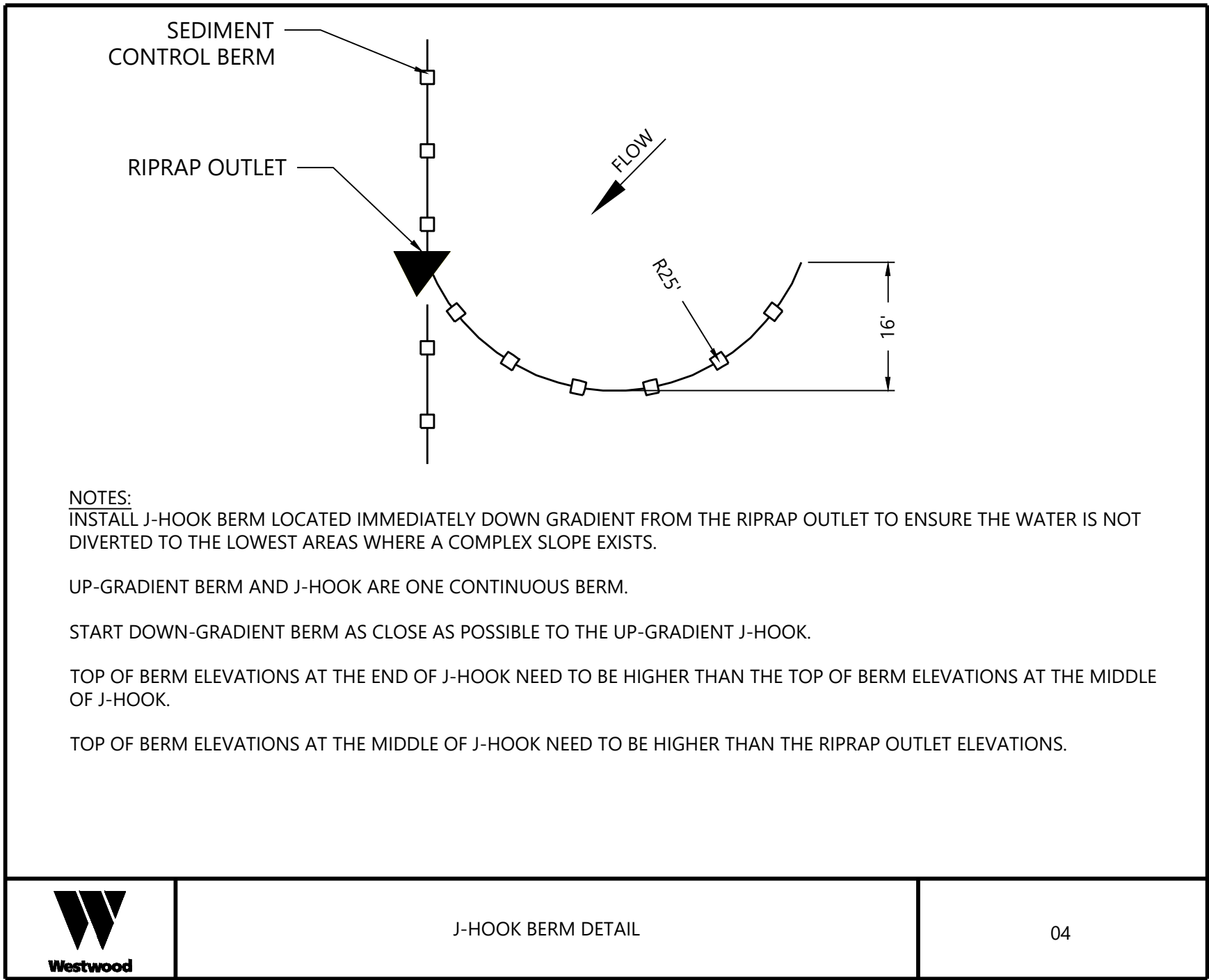
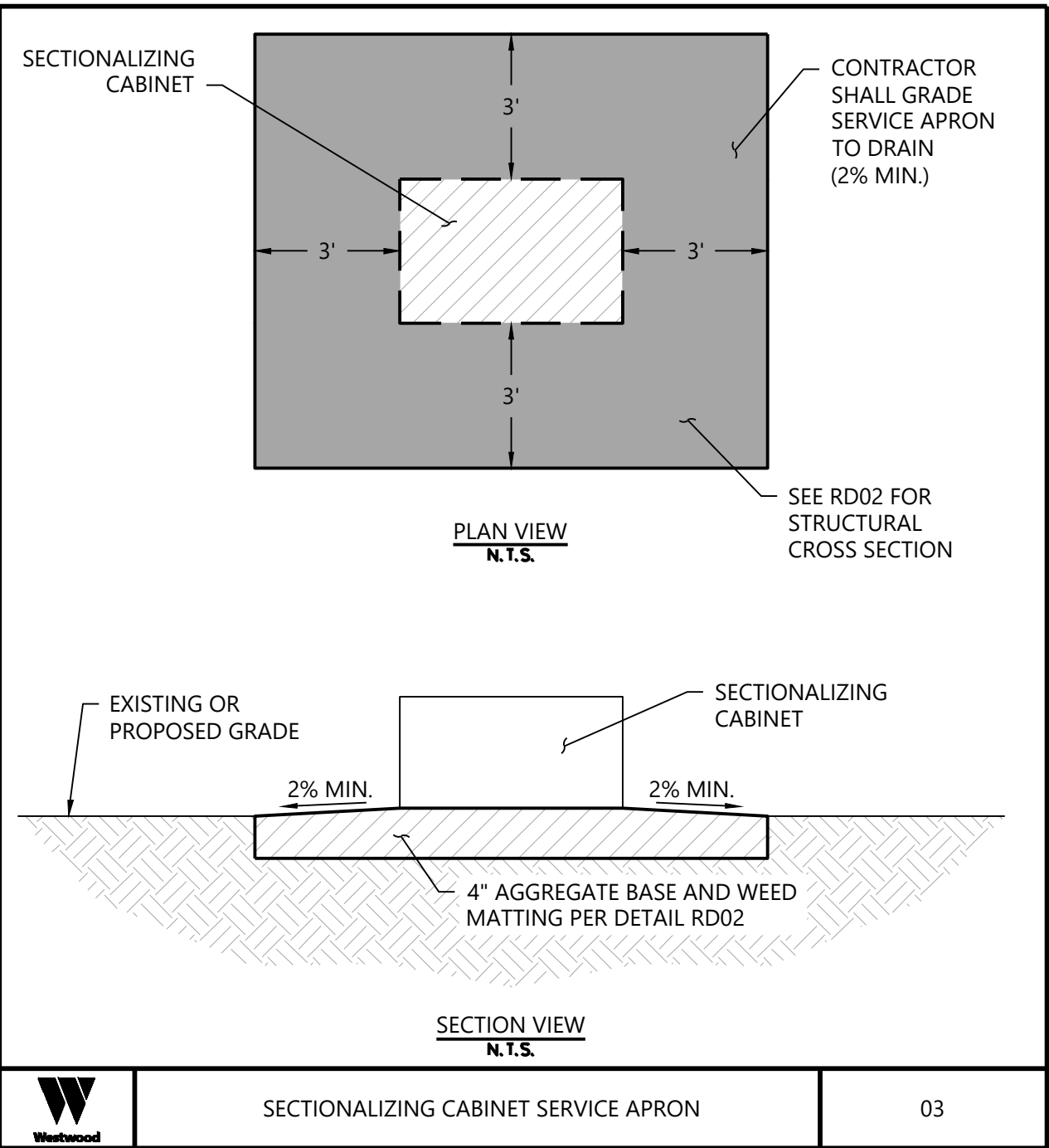
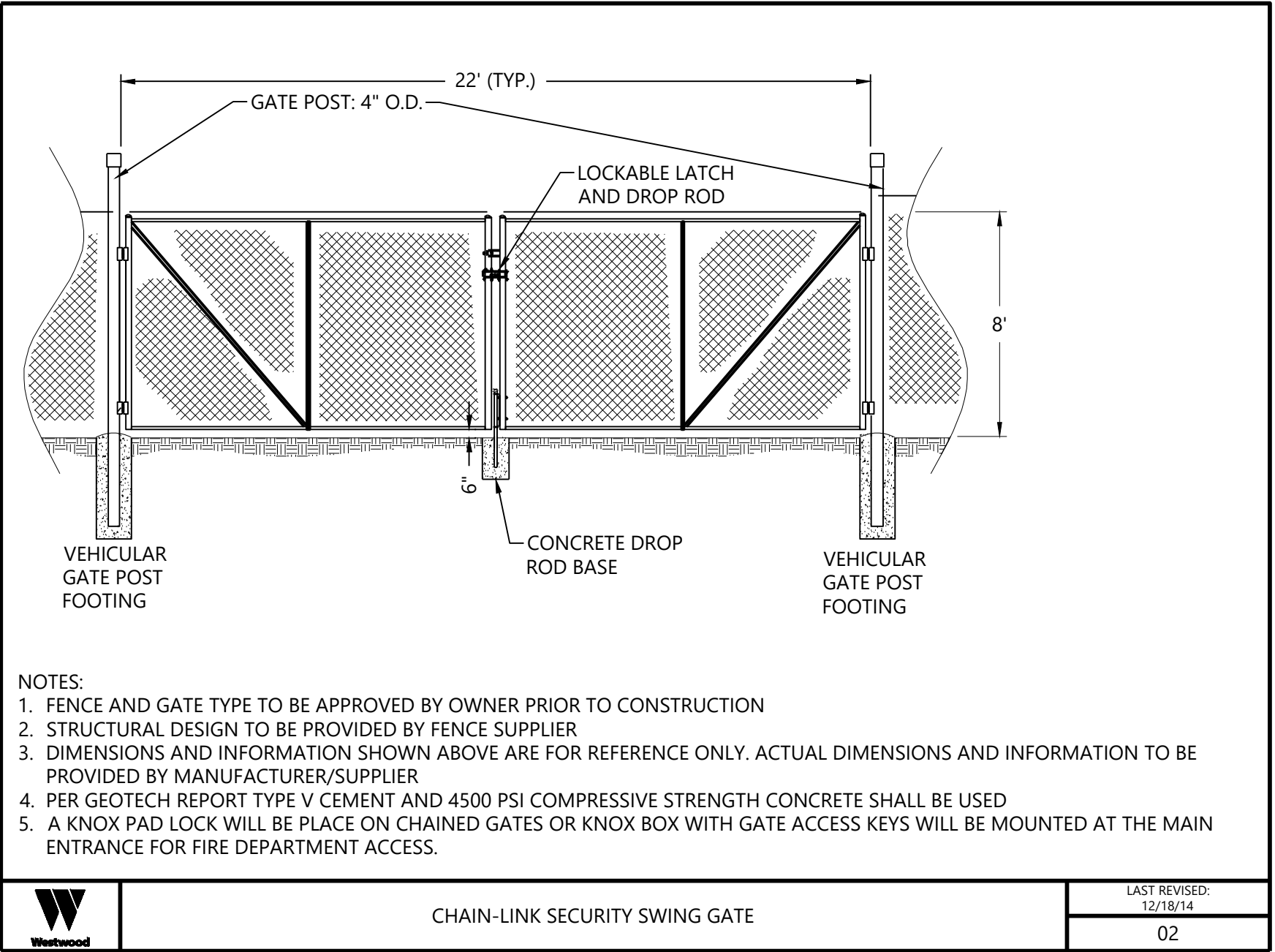
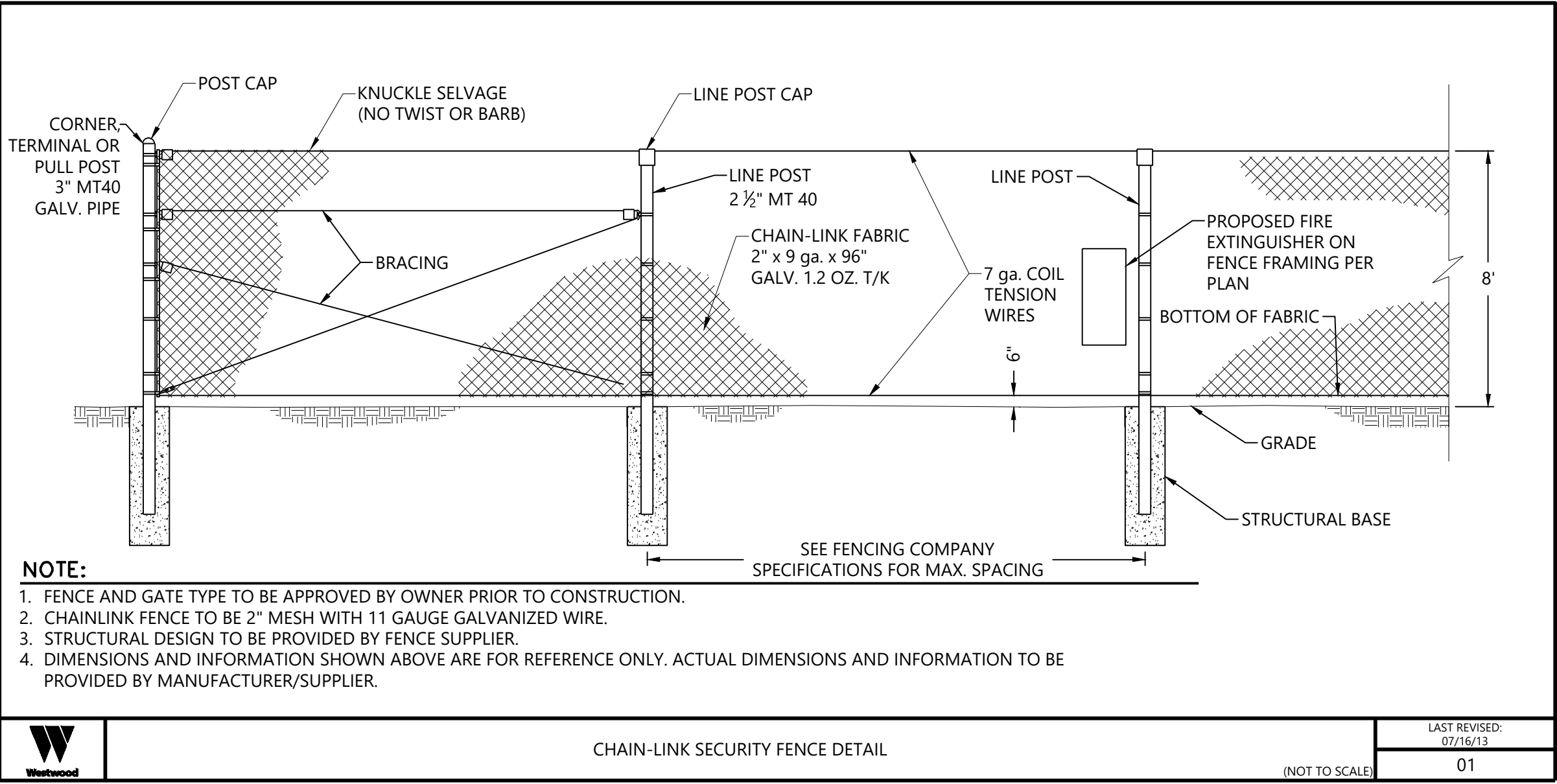


El Paso County, Colorado

SHEET: C.306



Existing Topo Flood Depths		
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2.500'	3.000'	
3.000'	5.000'	



PREPARED FOR:



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Grazing Yak Solar

El Paso County, Colorado

Construction Details - 2

DATE: 04/29/2019

SHEET: C.401

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ROAD DESIGN PARAMETERS

1. THE ROAD HAS BEEN DESIGNED TO ACCOMMODATE LOADS DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS. THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME, CONSTRUCTION LOADS.
2. ROAD MAINTENANCE CAN BE EXPECTED DURING CONSTRUCTION AND OVER THE LIFE OF THE PERMANENT FACILITY.
3. ROAD SECTION AND SPECIFICATION SHOWN ON THE PLANS WERE PREPARED BY WESTWOOD PROFESSIONAL SERVICES BASED ON GEOTECHNICAL RECOMMENDATIONS FROM TERRACON CONSULTANTS.

PRODUCTS

1. ACCESS ROAD AGGREGATE SHALL BE #57 STONE MEETING CDOT SPECIFICATION FOR SURFACE AGGREGATE.
2. CULVERTS: SEE PLAN FOR DRAINAGE CULVERT LOCATIONS. ACCESS ROAD CULVERTS SHALL MEET THE MINIMUM SPECIFICATIONS SET FORTH BY THE COLORADO DEPARTMENT OF TRANSPORTATION AND/OR EL PASO COUNTY. ALL CULVERTS SHALL BE HELICAL CORRUGATED 12 GAUGE OR APPROVED EQUAL AND MANUFACTURED OF CORRUGATED METAL PIPE.
3. GEOTEXTILE FABRIC SHALL BE MIRAFI HP270 OR APPROVED EQUAL.
4. EXCAVATED SOILS THROUGHOUT PROJECT SHALL BE UTILIZED AS FILL. SOILS SHALL BE CLEAN OF DEBRIS AND ORGANIC MATERIAL.

EXECUTION

1. SITE PREPARATION
 - A. THE CONTRACTOR SHALL BE REQUIRED TO CLEAR AND GRUB AREAS DESIGNATED ON THE PLANS REMOVING ALL TREES, STUMPS, BRUSH AND DEBRIS. TREES AND BRUSH LOCATED OUTSIDE OF THE PROJECT DEVELOPMENT AREA SHALL NOT BE DISTURBED.
 - B. AREAS THAT ARE NOT TO BE CLEARED AND GRUBBED SHALL HAVE ANY EXISTING VEGETATION MOWED TO A MINIMUM HEIGHT OF 3 INCHES PRIOR TO GRADING ACTIVITIES.
 - C. IF THE SITE WAS PREVIOUSLY FARMED, THE CONTRACTOR MIGHT NEED TO LEVEL FALLOW GROUND BY DISCING/DRAWING FIELD AND COMPACTING NATIVE SOILS USING A SMOOTH DRUM ROLLER TO REMOVE FALLOW. THE SITE WILL HAVE FINAL STABILIZATION MEASURES ESTABLISHED SO COMPACTION SHOULD ONLY BE TO SMOOTH THE SURFACE.
 - D. THE CONTRACTOR SHALL PRESERVE OTHER EXISTING VEGETATION TO THE MAXIMUM EXTENT PRACTICABLE. ANY VEGETATION THAT IS REMOVED SHALL ONLY BE ALLOWED WITHIN THE PROJECT BOUNDARY. THE CONTRACTOR IS TO REMOVE ONLY THAT VEGETATION WHICH SHALL BE DESIGNATED BY THE OWNERS REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING VEGETATION TO BE SAVED. CONSTRUCTION FENCING MAY BE INSTALLED TO PROTECT AREAS THAT ARE NOT TO BE DISTURBED.
 - F. NO BURNING OF DEBRIS IS ALLOWED WITHOUT THE NECESSARY PERMITS FROM JURISDICTIONAL GOVERNING AUTHORITIES AND APPROVAL BY THE OWNER.
2. FILL MATERIALS AND PLACEMENT
 - A. ALL FILL MATERIALS SHALL BE INORGANIC SOILS FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN THREE (3) INCHES IN SIZE. PEA GRAVEL OR OTHER SIMILAR NON-CEMENTITIOUS, POORLY-GRADED MATERIALS SHALL NOT BE USED AS FILL OR BACKFILL WITHOUT THE PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER.
 - B. CLEAN ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS FILL MATERIAL FOR GENERAL SITE GRADING.THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 10".
 - C. ANY IMPORTED SOILS MUST HAVE EXPANSION VALUES IN THE "VERY LOW" RANGE.

ACCESS ROAD CONSTRUCTION AND SITE GRADING

1. TOPSOIL MANAGEMENT
 - A. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS (TYPICALLY 6"). TOPSOIL STRIPPING AREAS (AS IDENTIFIED ON THE PLANS) SHALL BE STRIPPED THROUGH THE TOPSOIL DEPTH. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THESE DESIGNATED AREAS.
 - B. STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS SHALL BE STOCKPILED ON THE SITE. STOCKPILES WITHIN THE SITE SHALL HAVE TEMPORARY EROSION AND SEDIMENT CONTROL APPLIED IN ACCORDANCE WITH THE PROJECT SWPPP OR USED TO REVEGETATE LANDSCAPED AREAS OR EXPOSED SLOPES AFTER COMPLETION OF GRADING OPERATIONS. IF IT IS NECESSARY TO DISPOSE OF ORGANIC MATERIALS ON-SITE THEY SHALL BE PLACED IN NON-STRUCTURAL AREAS.
2. INTERNAL ROAD EMBANKMENT
 - A. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL. AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE AS INDICATED ON CIVIL PLANS. GENERALLY, THE INTERNAL ROAD EMBANKMENT SHALL HAVE COMPACTED SUPPORT SLOPES OF THREE FEET HORIZONTAL TO ONE FOOT VERTICAL.
 - B. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE GENERATED ON SITE BY THE CONTRACTOR FROM THE IDENTIFIED BORROW AREA. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 10".
 - C. ALL SLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GRADING SHOWN ON THE PLANS.
 - D. EXPOSED SURFACES SHALL BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION. SEE TABLE 2 FOR TESTING REQUIREMENTS AND TABLE 3 FOR COMPACTION REQUIREMENTS.
3. SITE GRADING
 - A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING AND TOPSOIL REMOVAL IN AREAS SHOWN ON THE PLANS, THE SUBSURFACE SOILS SHALL HAVE THE GRADES AND ELEVATIONS MODIFIED AS SHOWN ON THE PLANS. THE PROPOSED CONTOURS AND ELEVATIONS SHOWN ON THE PLANS ARE TO FINISHED GRADE.
 - B. SUBSURFACE SOILS SHALL BE MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3.
 - C. ANY CUT MATERIAL THAT CANNOT BE USED FOR STRUCTURAL BACKFILL THROUGHOUT THE PROJECT SHALL BE USED IN FILL AREAS IDENTIFIED ON THE PLANS. THE FILL AREA SHALL HAVE TOPSOIL REMOVED AND MANAGED AS IDENTIFIED ABOVE IN "TOPSOIL MANAGEMENT".
 - D. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING.
3. SUBGRADE PREPARATION
 - A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING, TOPSOIL REMOVAL AND EMBANKMENT CONSTRUCTION, THE EXPOSED SUBGRADE SOILS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF EIGHT (8) INCHES, MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3. THE COMPACTED EXPOSED SUBGRADES SHALL BE PROOF ROLLED AND OBSERVED BY A GEOTECHNICAL ENGINEER TO DETERMINE IF SOFT SOILS EXIST. IF SOFT SOILS EXIST THEY SHALL BE SCARIFIED AND ALLOWED TO DRY, RECOMPACTED AND TESTED AGAIN, IF THEY CONTINUE TO REMAIN SOFT, FOLLOWING SCARIFICATION, DRYING AND RECOMPACTION EFFORTS ADDITIONAL AGGREGATE MAY BE ADDED FOR STABILITY.
 - B. ROAD SUBGRADE AND COMPACTION SHALL EXTEND HORIZONTALLY AT LEAST TWO FEET BEYOND THE OUTSIDE EDGE OF THE DRIVABLE SURFACE.
 - C. THE MOISTURE CONTENT AND COMPACTION OF ROAD SUBGRADE SOILS SHALL BE MAINTAINED UNTIL PAVEMENT CONSTRUCTION.
 - D. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING AND ROADWAY AREAS.
4. AGGREGATE PLACEMENT
 - A. ACCESS ROADS - SUBSEQUENT TO THE SUBGRADE PREPARATION THE ROAD AGGREGATE BASE SHALL BE PLACED AND COMPACTED TO THE SPECIFICATIONS IDENTIFIED IN TABLE 3.
5. TOPSOIL REDISTRIBUTION AND STABILIZATION
 - A. FOLLOWING THE PLACEMENT OF THE AGGREGATE BASE AND APPROVAL OF THE TESTING, TOPSOIL SHALL BE DISTRIBUTED OVER THE EXPOSED DISTURBED AREAS, EXCLUDING THE AGGREGATE DRIVING SURFACE.
 - B. FOLLOWING SITE GRADING OPERATIONS, TOPSOIL CAN BE USED TO BRING THE GROUND ELEVATIONS UP TO THE DESIGNED FINISHED GRADE ELEVATIONS.
 - C. THE TOPSOIL SHALL HAVE TEMPORARY AND PERMANENT STABILIZATION MEASURES ESTABLISHED IN ACCORDANCE WITH THE PROJECT SWMP.

TEMPORARY LAYDOWN/STORAGE YARD

1. PREPARATION
 - A. THE LAYDOWN/STORAGE YARD SHALL CONSIST OF COMPACTED NATIVE MATERIAL OVERLAID WITH A GEOTEXTILE FABRIC AND AGGREGATE MATERIAL.
 - B. THE COMPACTED NATIVE MATERIAL SHALL BE MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3 (NON-STRUCTURAL AREA).
 - C. GEOTEXTILE FABRIC SHALL BE PLACED ON TOP OF COMPACTED NATIVE MATERIAL AND THEN AGGREGATE PLACED AND COMPACTED.
 - D. FOLLOWING CONSTRUCTION AND REMOVAL OF PROJECT INVENTORY THE COMPACTED NATIVE MATERIAL SHALL BE DECOMPACTED AND PERMANENTLY STABILIZED IN ACCORDANCE WITH THE PROJECT SWMP SPECIFICATIONS.

EXECUTION (CONTINUED)

ELECTRICAL TRENCHES

- A. TRENCH'S SHALL BE EXCAVATED TO THE DEPTH IDENTIFIED IN THE ELECTRICAL DRAWINGS/DETAILS.
- B. TRENCH BACKFILL SHALL CONSIST OF APPROVED, ONSITE OR IMPORT SOILS. SOILS SHALL BE FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN 3 INCHES.
- C. INITIAL BACKFILL LIFT SHALL BE 18 INCHES, ADDITIONAL BACKFILL LIFTS SHALL NOT EXCEED 10 INCHES OF LOOSE MATERIAL. IF TESTING OF THE INITIAL LIFT DOES NOT PROVIDE THE REQUIRED DENSITY THE INITIAL BACKFILL LIFT WILL BE REDUCED TO A 8 INCH LOOSE THICKNESS.
- D. BACKFILL SHALL BE COMPACTED TO AT LEAST 85% OF MAXIMUM DRY DENSITY IN NON-STRUCTURAL AREAS AND 95% OF MAXIMUM DRY DENSITY UNDER STRUCTURAL AREA OR WITHIN 18" OF SOLAR POST FOUNDATION, AND WITHIN -2% TO +3% OF OPTIMUM MOISTURE.
- E. TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED.

TABLE 2: TESTING SCHEDULE SUMMARY		
LOCATION	TEST	FREQUENCY
STRUCTURAL FILL	GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR	1 PER MAJOR SOIL TYPE
	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 EVERY 500 LF OF ROAD
	PROOF-ROLL	ENTIRE LENGTH
COMPACTED SUBGRADE	DYNAMIC CONE PENTROMETER TEST (DCP)	1 EVERY 500 LF OF ROAD
	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 EVERY 500 LF OF ROAD
	PROOF-ROLL	ENTIRE LENGTH
AGGREGATE BASE	SIEVE ANALYSIS	1 PER 2000 CY
	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 PER 2 FOOT VERTICAL LIFTS AND/OR 500 C.Y. OF MATERIAL
	MISCELLANEOUS FILL:	
TRENCH BACKFILL:	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 EVERY 500 LF OF TRENCH, ALTERNATE TEST DEPTHS OF 18" AND AT GRADE

TABLE 3: COMPACTION AND MOISTURE CONTENT REQUIREMENTS			
MATERIAL TYPE AND LOCATION	MINIMUM COMPACTION REQUIREMENT (%)	RANGE OF MOISTURE CONTENTS FOR COMPACTION (% OVER OPTIMUM)	
		MINIMUM	MAXIMUM
AGGREGATE BASE:	100	-2%	+3%
STRUCTURAL FILL:	95	-2%	+3%
SUBGRADE (BENEATH EQUIPMENT PADS, NATIVE MATERIAL)	95	-2%	+3%
SUBGRADE (BENEATH EQUIPMENT PADS, IMPORT NON-EXPANSIVE SOILS)	95	-2%	+3%
TRENCH BACKFILL (NON-STRUCTURAL AREAS)	85	-4%	+4%
TRENCH BACKFILL (STRUCTURAL AREAS)	95	-2%	+3%
NON-STRUCTURAL FILL	90	-4%	+4%

TESTING REQUIREMENTS:

DEFINITIONS

1. THE CONTRACTOR SHALL SUBMIT MATERIAL TESTING REPORTS AS SHOWN ON THE DRAWINGS AS WELL AS GEOTEXTILE MATERIAL TO BE USED DURING CONSTRUCTION.
2. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY.
3. SUBMIT TESTING AND INSPECTION RECORDS SPECIFIED TO THE CIVIL ENGINEER OF RECORD FOR REVIEW.
 - A. THE ENGINEER WILL REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK.
3. PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING. PROOF-ROLLING ACCEPTANCE STANDARDS INCLUDE NO RUTTING GREATER THAN 1.5 INCHES, AND NO "PUMPING" OF THE SOIL BEHIND THE LOADED TRUCK.
4. SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C136
5. PROCTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D1557
6. ATTERBERG LIMITS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D4318
7. MOISTURE DENSITY (NUCLEAR DENSITY) TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM D2922
8. DYNAMIC CONE PENETROMETER (DCP) TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM D6951-03

REQUIREMENTS

1. COMPACTION:
 - A. REFER TO **TABLE 3** FOR COMPACTION REQUIREMENTS AND ACCEPTABLE MOISTURE CONTENTS.
2. IMPORT FILL MATERIAL:
 - A. IMPORT SOILS USED AS FILL MATERIAL SHALL BE TESTED FOR GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, PROCTOR TESTS, R-VALUES, SAND EQUIVALENTS, DURABILITY INDEX, LIQUID LIMIT, PLASTICITY INDEX, AND MAXIMUM EXPANSION INDEX.
3. COMPACTED SUBGRADE:
 - A. PROVIDE 1 MOISTURE DENSITY COMPACTION TEST FOR EVERY 500 L.F. OF ROAD LENGTH
 - B. THE ENTIRE INTERNAL/ACCESS ROAD SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO THE PLACEMENT OF THE AGGREGATE BASE TO IDENTIFY AREAS OF UNSTABLE SUBGRADE. IF UNSTABLE SUBGRADE IS ENCOUNTERED SCARIFY, MOISTURE CONDITION, AND RECOMPACT SOILS TO ACHIEVE COMPACTION.
3. PROVIDE 1 DYNAMIC CONE PENETROMETER (DCP) TEST FOR EVERY 500 L.F. OF ROAD LENGTH
4. AGGREGATE BASE:
 - A. PROVIDE 1 MOISTURE DENSITY COMPACTION TEST FOR EVERY 500 L.F. OF ROAD LENGTH.
 - B. AGGREGATE BASE SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH. IF PROOF ROLLING DETERMINES THAT THE ROAD IS UNSTABLE, ADDITIONAL AGGREGATE SHALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL FOR ALL ROAD CLASSIFICATIONS.
 - C. PROVIDE 1 SIEVE ANALYSIS PER 2000 CY OF ROAD AGGREGATE BASE PLACED.
5. MISCELLANEOUS FILL:
 - A. PROVIDE MOISTURE DENSITY COMPACTION TESTS ONCE PER 2 FOOT VERTICAL LIFTS AND/OR 500 C.Y. OF COMPACTED FILL MATERIAL.

TRAFFIC CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY/COUNTY AND ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

GENERAL NOTES:

1. CONSTRUCTION PLANS ARE BASED OFF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, US FOOT.
2. PROPOSED SOLAR LAYOUT FOR THIS PROJECT PROVIDED BY WESTWOOD PROFESSIONAL SERVICES.
3. THE ALTA SURVEY AND EXISTING PLANIMETRIC DATA WAS PROVIDED BY WESTWOOD PROFESSIONAL SERVICES.
4. ALL DIMENSIONS ARE TO PROJECT BOUNDARY, EDGE OF GRAVEL, FENCE LINES AND SOLAR PANELS UNLESS OTHERWISE NOTED.
5. THE GROUND SURFACE CONTOURS (AT ONE-FOOT VERTICAL INTERVALS) AND ELEVATIONS ARE BASED ON A LIDAR DATA FROM THE STATE OF COLORADO.
6. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED AND ARE NOT TO BE REMOVED WITHOUT PERMISSION FROM THE OWNER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
7. THE CONTRACTOR SHALL NOTIFY COLORADO 811 (ONE CALL) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
8. ELECTRONIC FILES ARE AVAILABLE FOR CONSTRUCTION OPERATIONS.

GRADING EROSION AND SEDIMENT CONTROL / STORMWATER MANAGEMENT PLAN (SWMP):

1. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CPHE), AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE PROJECT SITE PLANS AND ASSOCIATED STORMWATER MANAGEMENT PLAN (SWMP) FOR EROSION CONTROL AND RESTORATION LOCATIONS AND SPECIFICATIONS. UNLESS OTHERWISE NOTED OR MODIFIED IN THE SWMP/HEREIN, ALL SECTIONS OF THE GENERAL CONDITIONS SHALL APPLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SWMP'S AVAILABILITY.
3. ALL FIBER ROLLS AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED.
4. ALL DRAINAGE SWALES DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY ROAD SURFACING MATERIALS, SHALL BE STABILIZED IN ACCORDANCE WITH THE SWMP PLAN.



PREPARED FOR:



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E	04/29/19	Issued for Grading Permit

Grazing Yak Solar

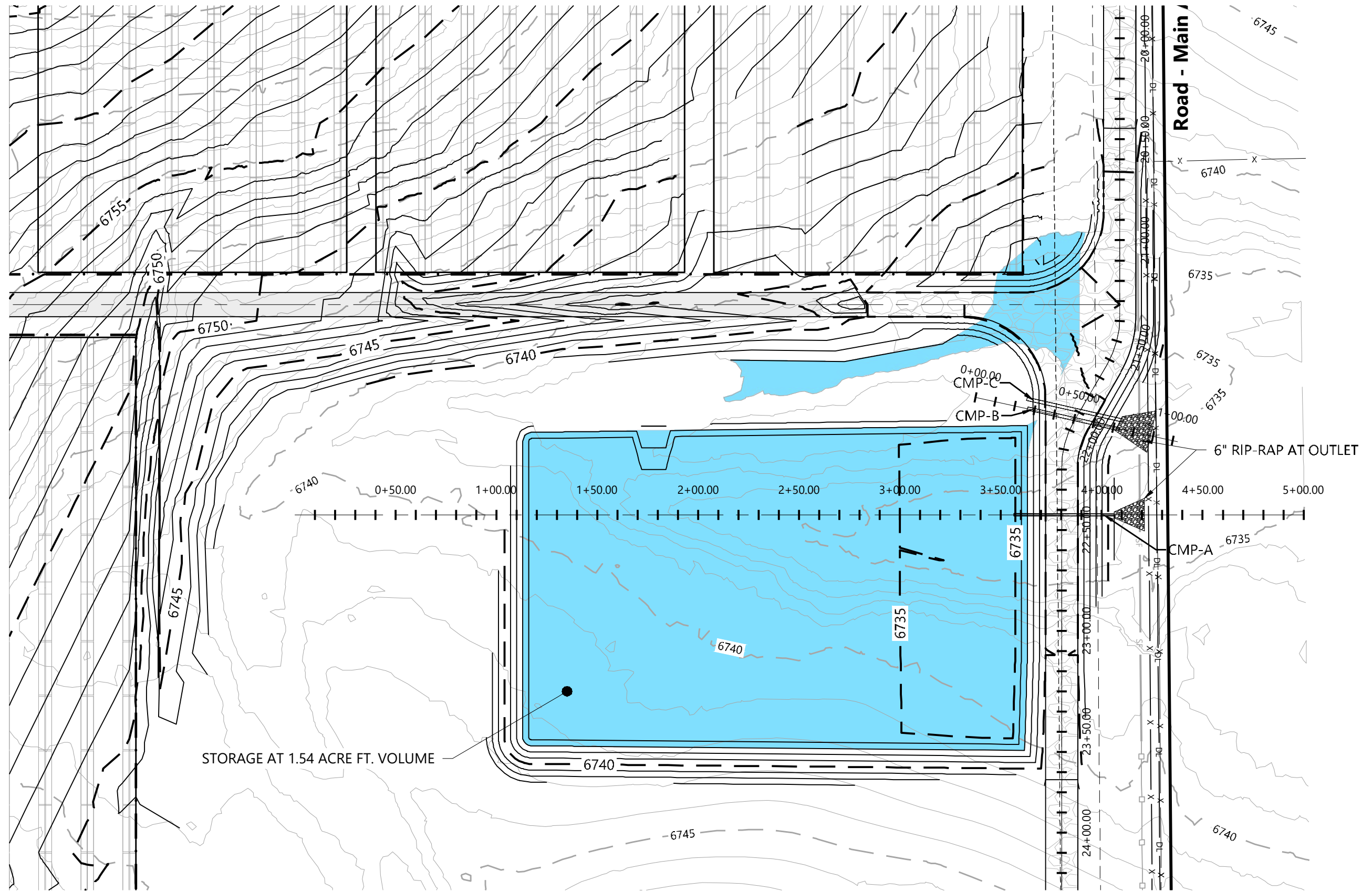
El Paso County, Colorado

Construction Notes - 1

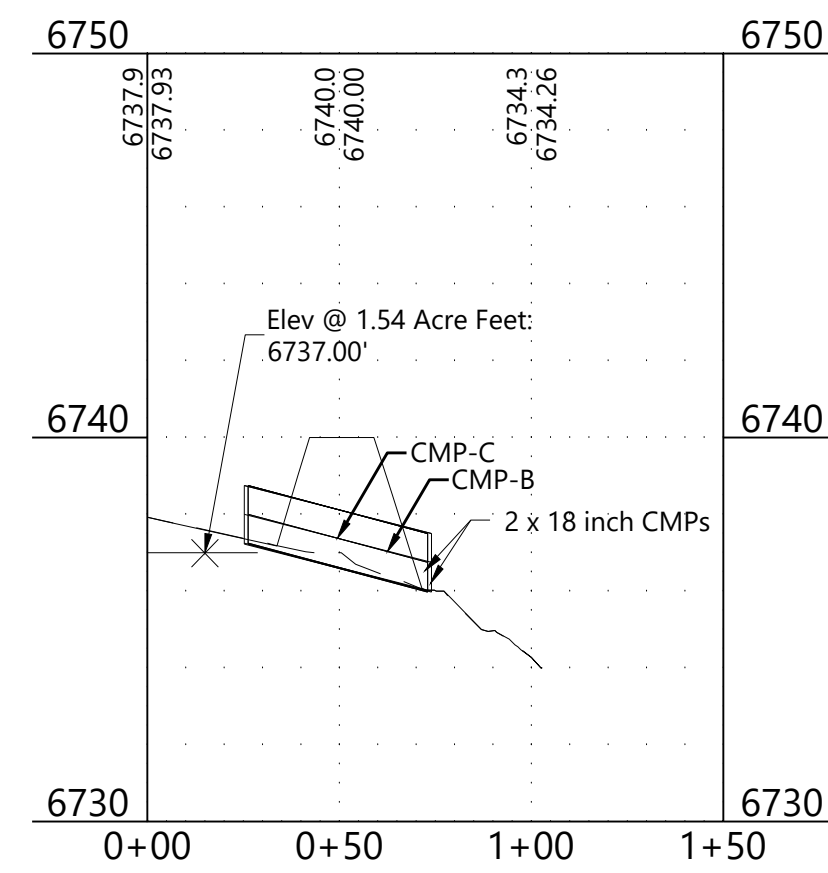
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SHEET:

C.402

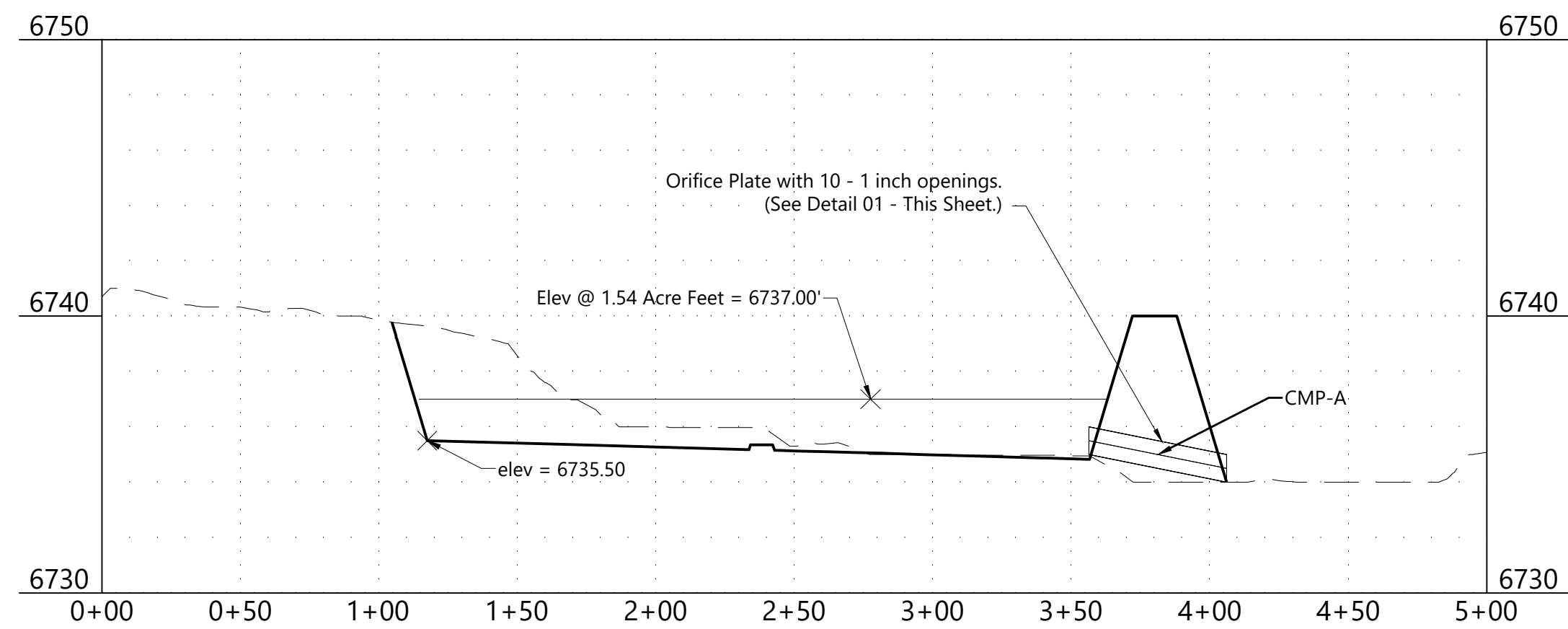


1 Permanent Setention Basin - Plan View
1" = 50'

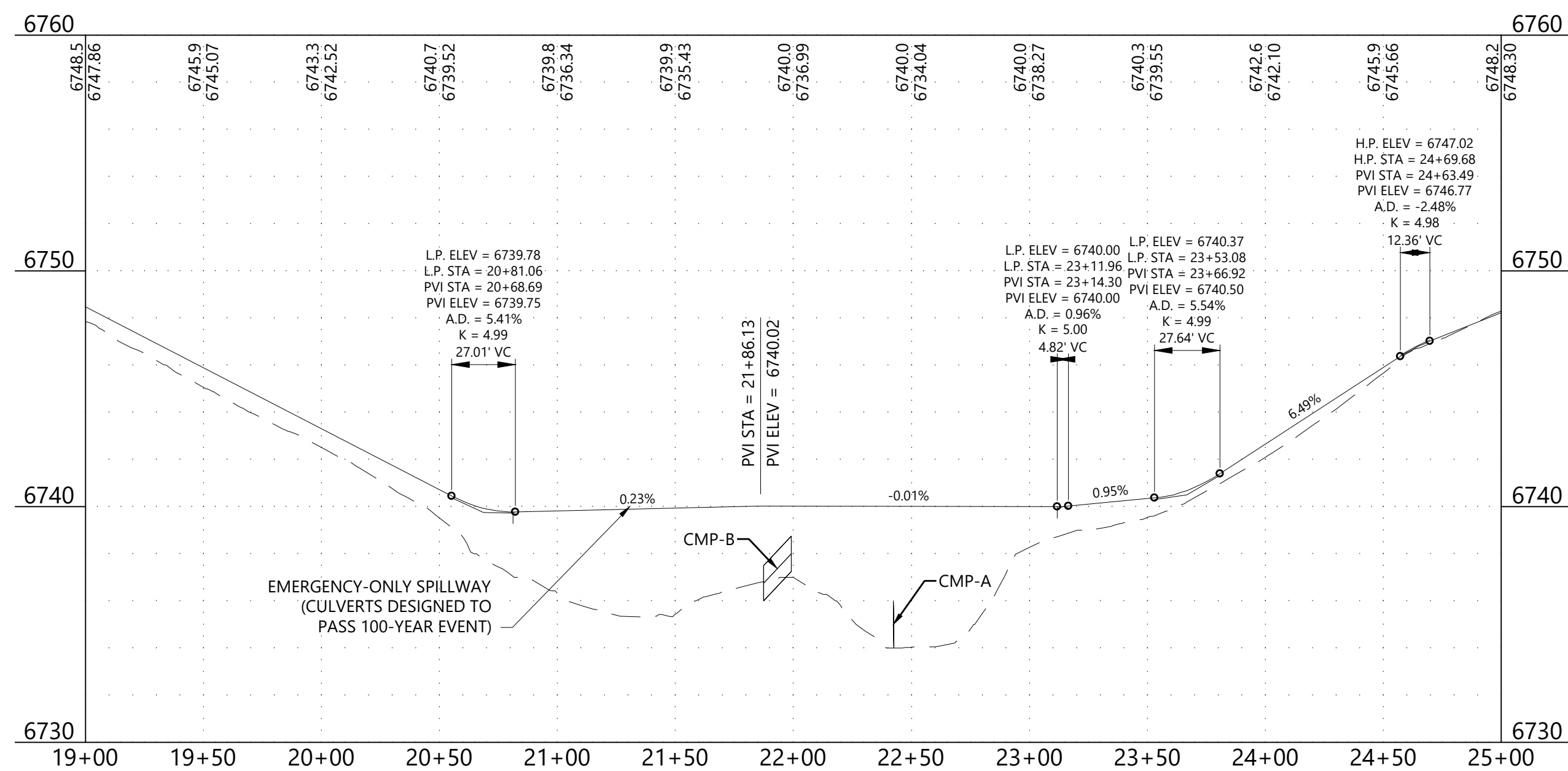


Pipe Table					
Pipe Name	Size	Length	Slope	Inv Up	Inv Down
CMP-A	12"	50'	2.01%	6735.00'	6734.00'
CMP-B	18"	47'	2.69%	6737.25'	6736.00'
CMP-C	18"	49'	2.57%	6737.25'	6736.00'

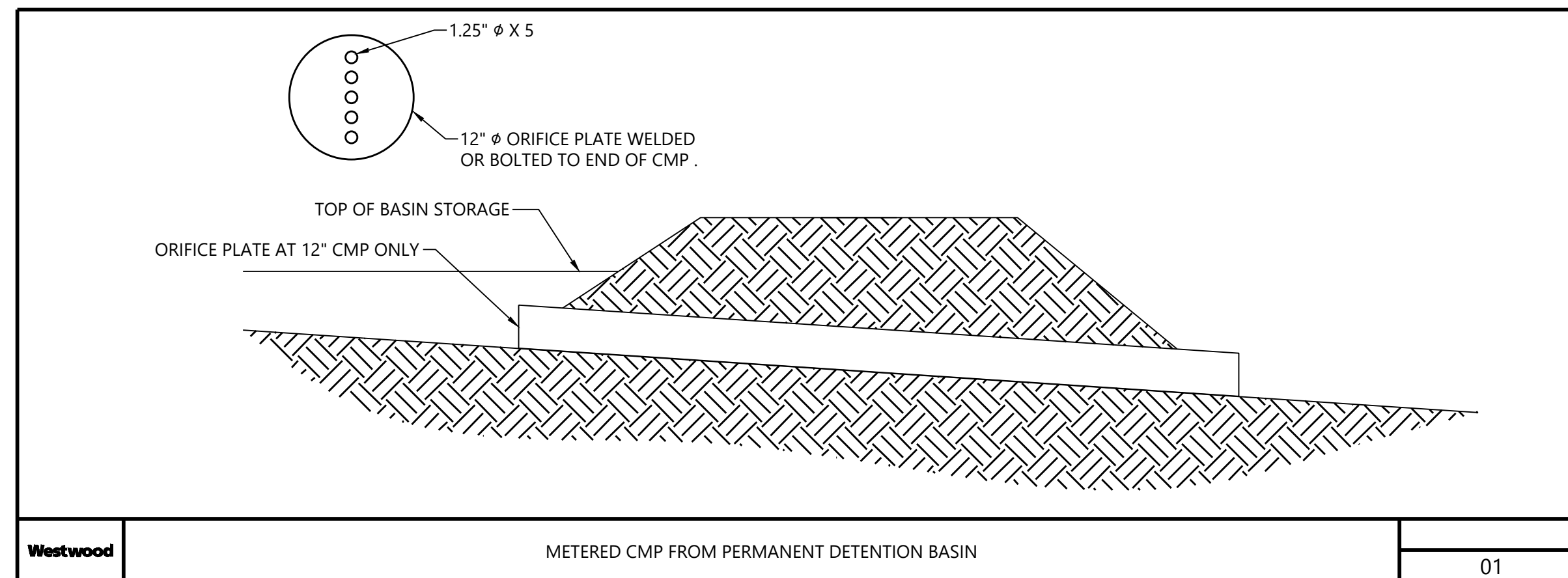
3 2 - 18" CMP - Main Access Rd.
1" = 50'



4 Section View of 18" CMP - Main Access Rd. & Basin
1" = 50'



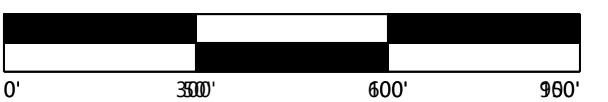
2 Proposed Main access Rd at Permanent Detention Basin - Profile
1" = 50'



PREPARED FOR:



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El Paso County, Colorado

Detention Basin Drainage Plan

DATE: 04/29/2019

SHEET: DR.01

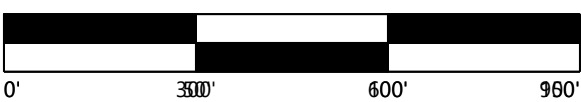


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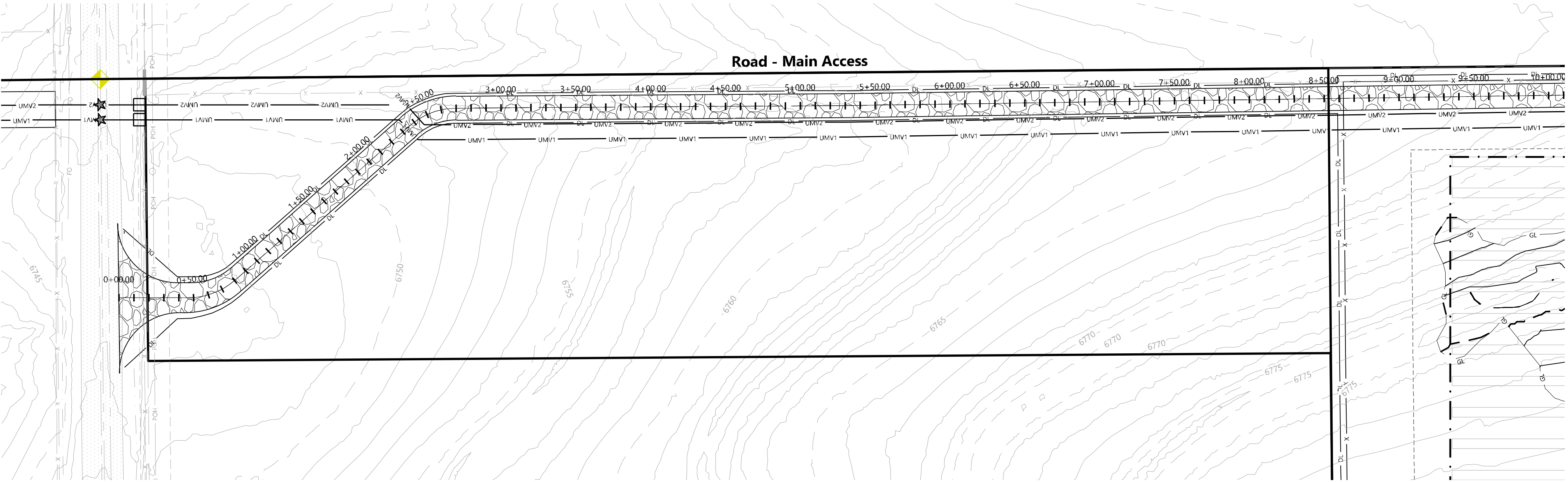
Plan Profile - Main
Access Rd Sheet 1

DATE: 04/29/2019

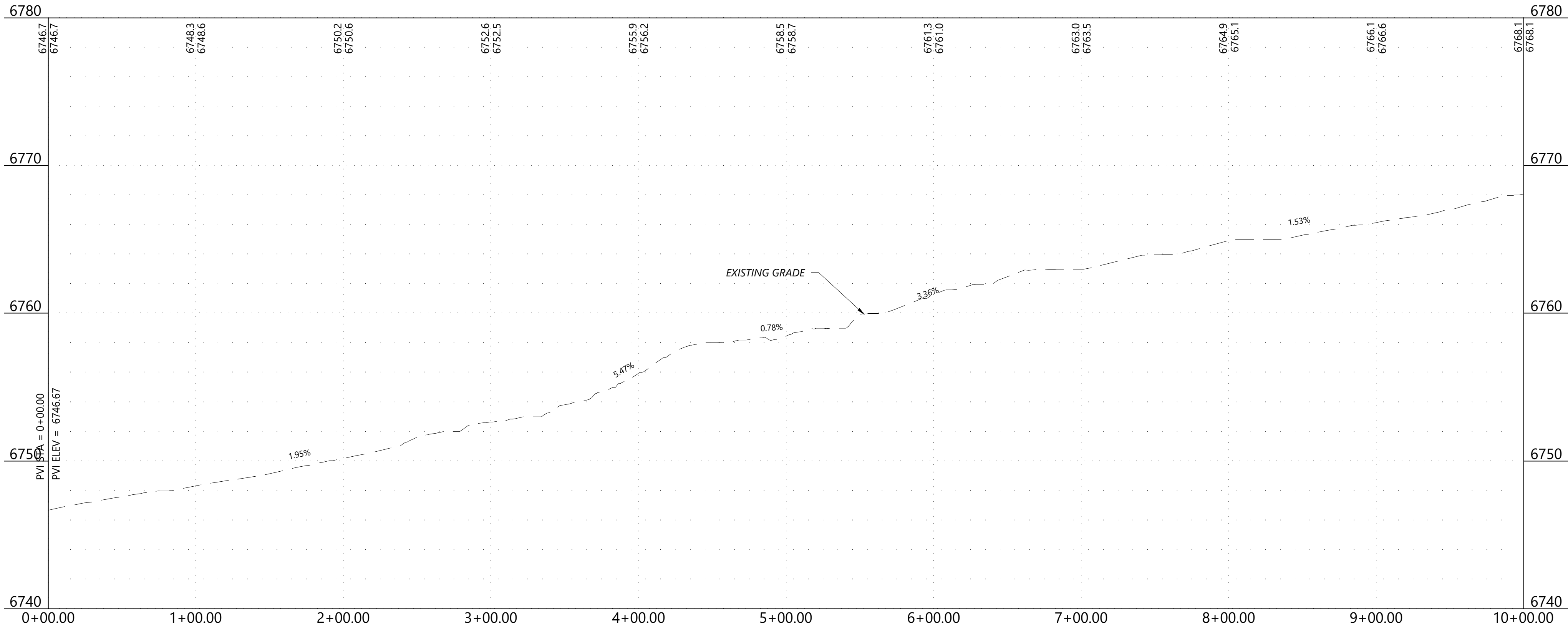
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LEGEND & ABBREVIATIONS

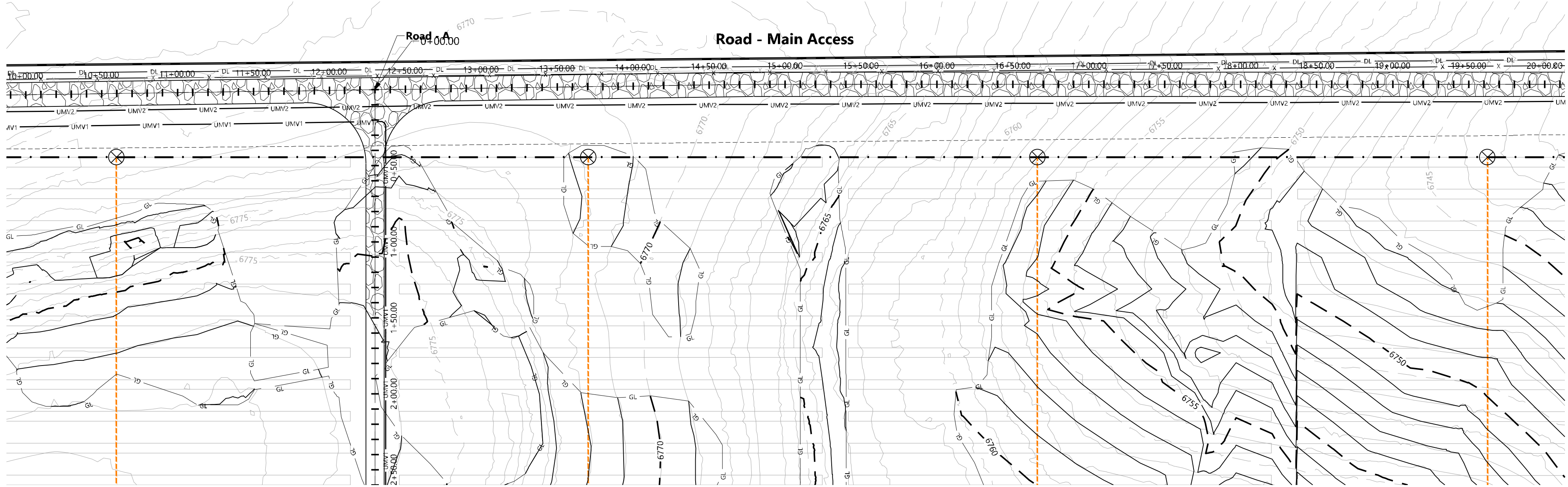
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	55' EQUIPMENT SET BACK LINE
	PROPOSED GRAVELED ACCESS ROAD
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	PROPOSED PROTECTED CROSSING
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	EX. FENCE LINE
	EX. OVERHEAD POWERLINE
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	EX. FIBER OPTIC LINE
	EX. OIL LINE
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	EX. ROAD CENTERLINE
	EX. TRAIL CENTERLINE
	EX. GROUND SWALE
	EX. RIGHT OF WAY LINE
	INVERTER/TRANSFORMER SKID



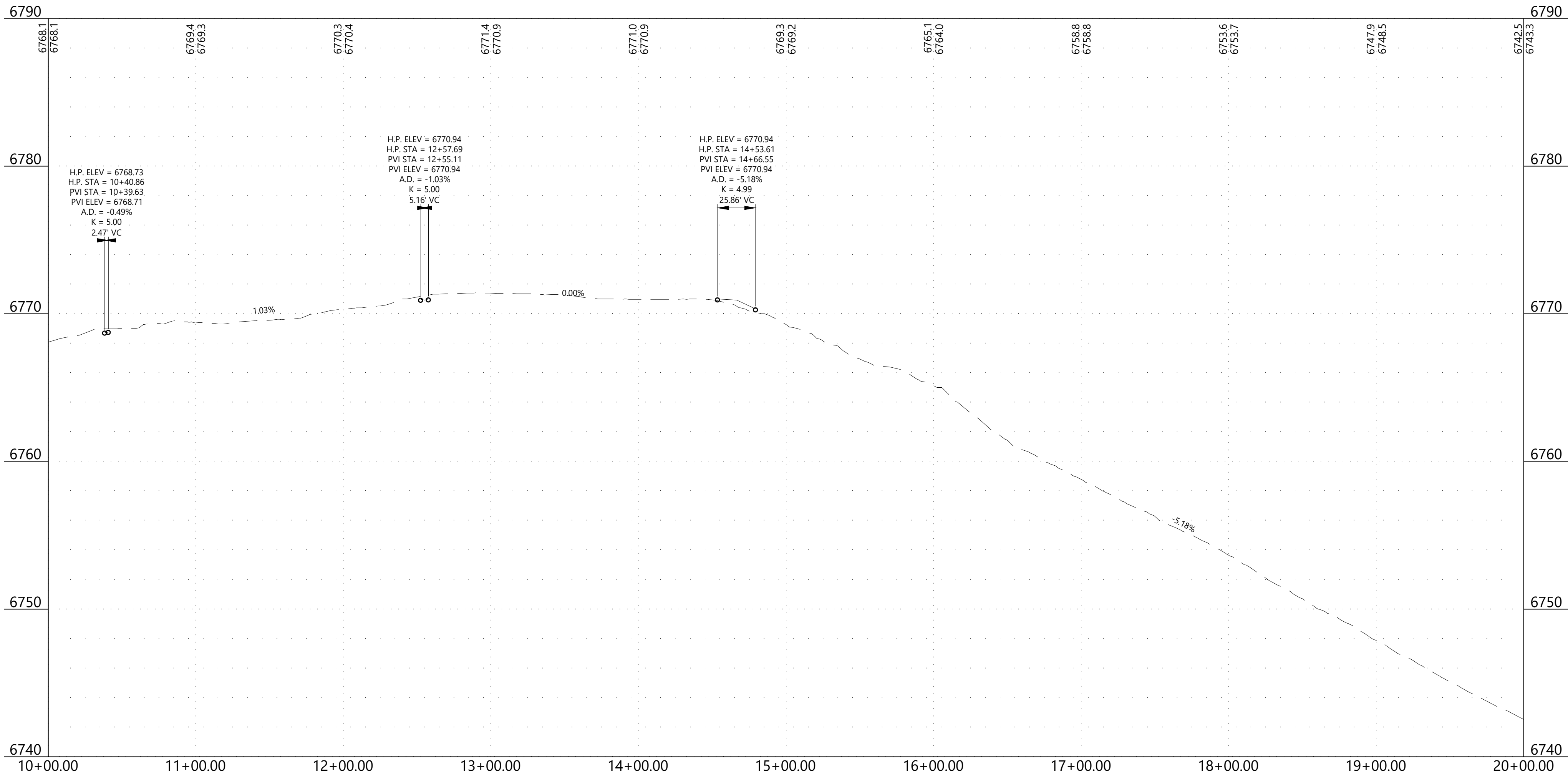
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LEGEND & ABBREVIATIONS

- EX. PROJECT BOUNDARY LINE
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Westwood

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Westminster, CO 80021
westwoodps.com

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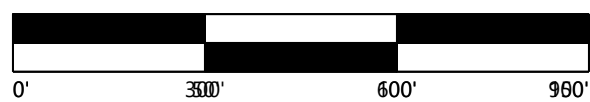


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**Grazing Yak
Solar**

El Paso County, Colorado

Plan Profile - Main
Access Rd Sheet 2

DATE: 04/29/2019

SHEET: PR.002

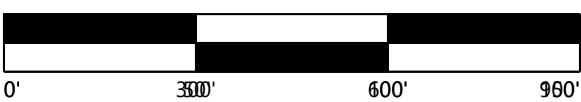


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Grazing Yak Solar

El Paso County, Colorado

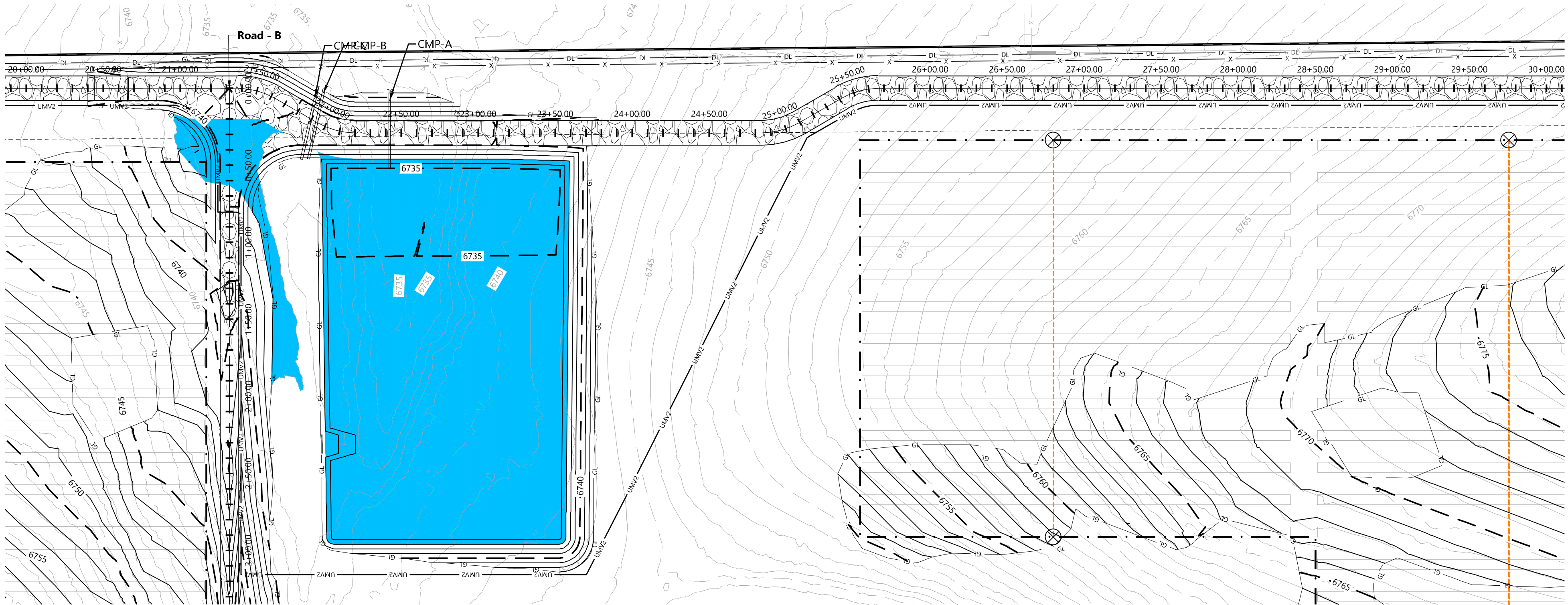
Plan Profile - Main
Access Rd Sheet 3

DATE: 04/29/2019

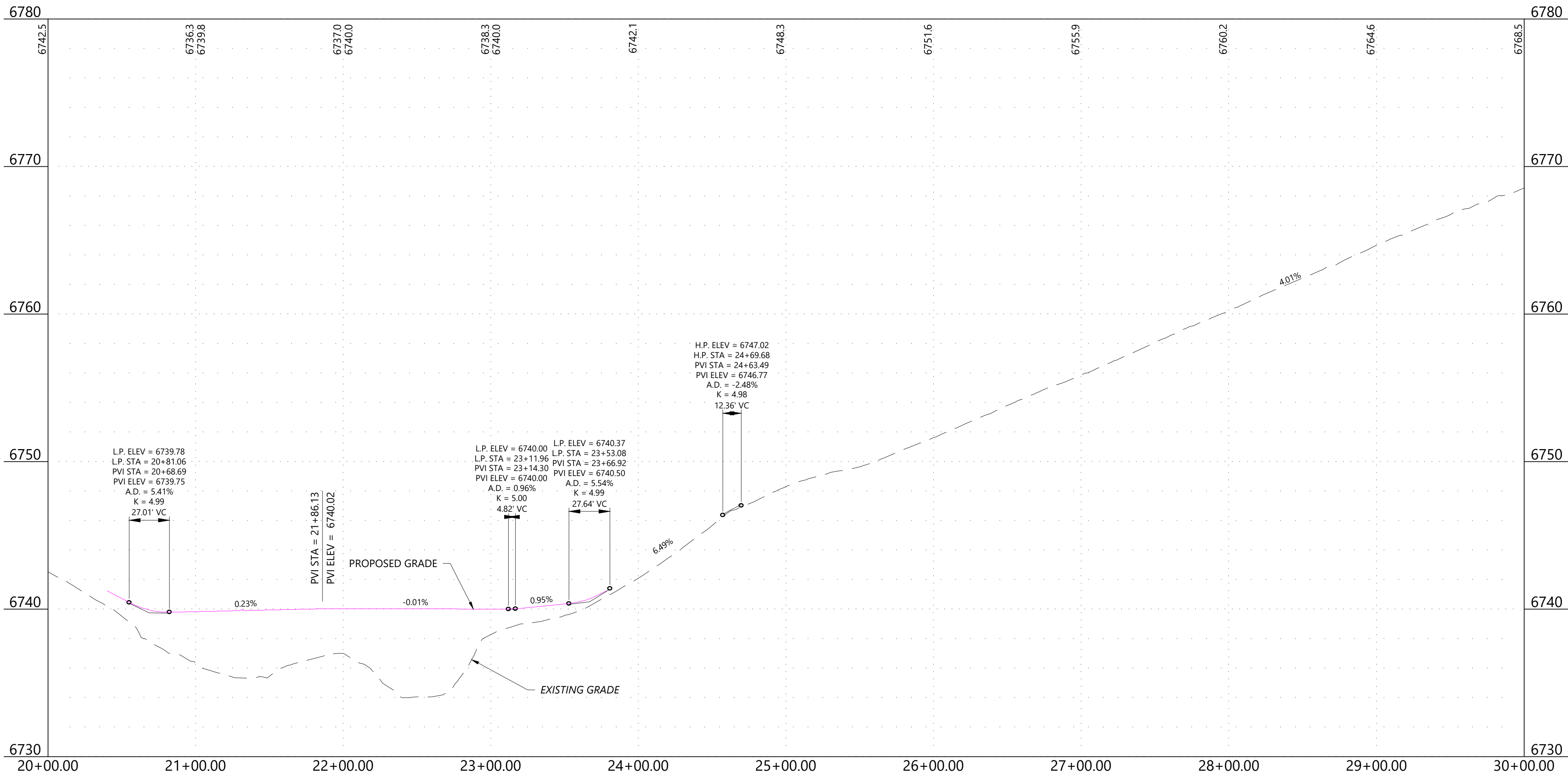
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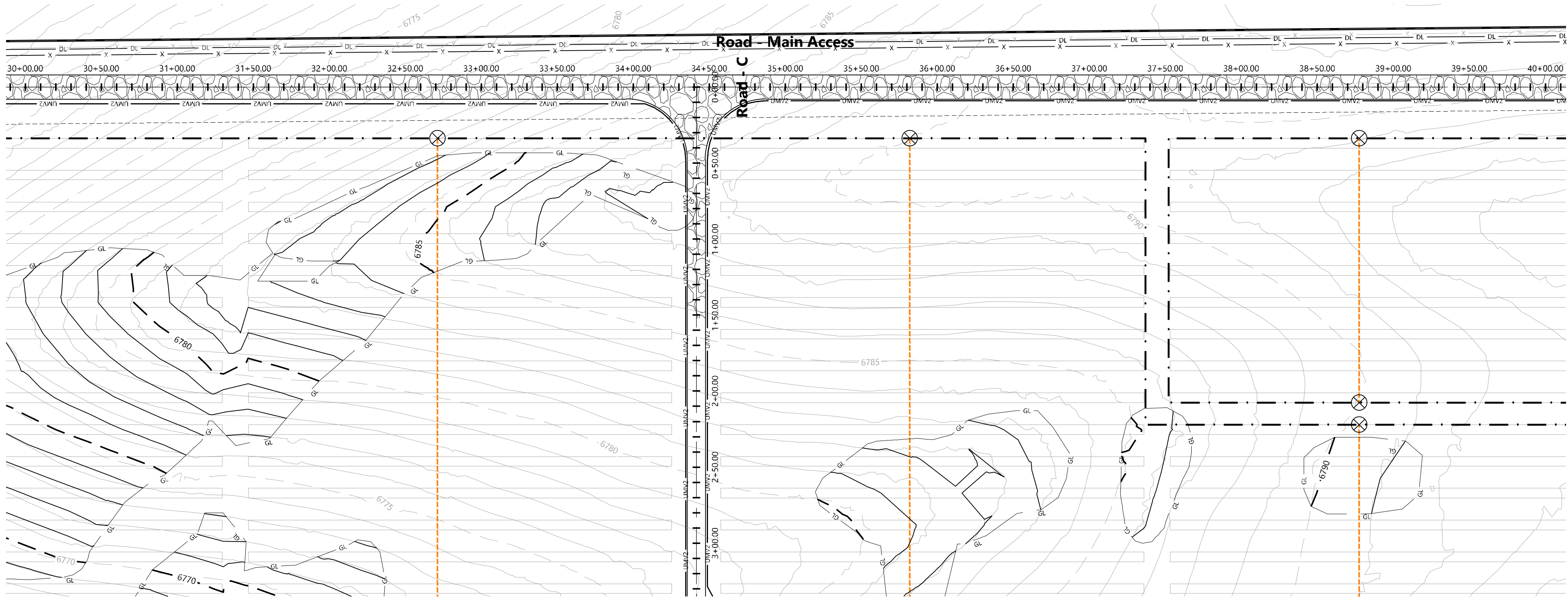
LEGEND & ABBREVIATIONS

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	EX. UNDERGROUND ELECTRICAL
	EX. FIBER OPTIC LINE
	EX. OIL LINE
	EX. GRAVEL ROAD
	EX. ASPHALT PAVEMENT ROAD
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	EX. TRAIL CENTERLINE
	EX. GROUND SWALE
	EX. RIGHT OF WAY LINE
	INVERTER/TRANSFORMER SKID

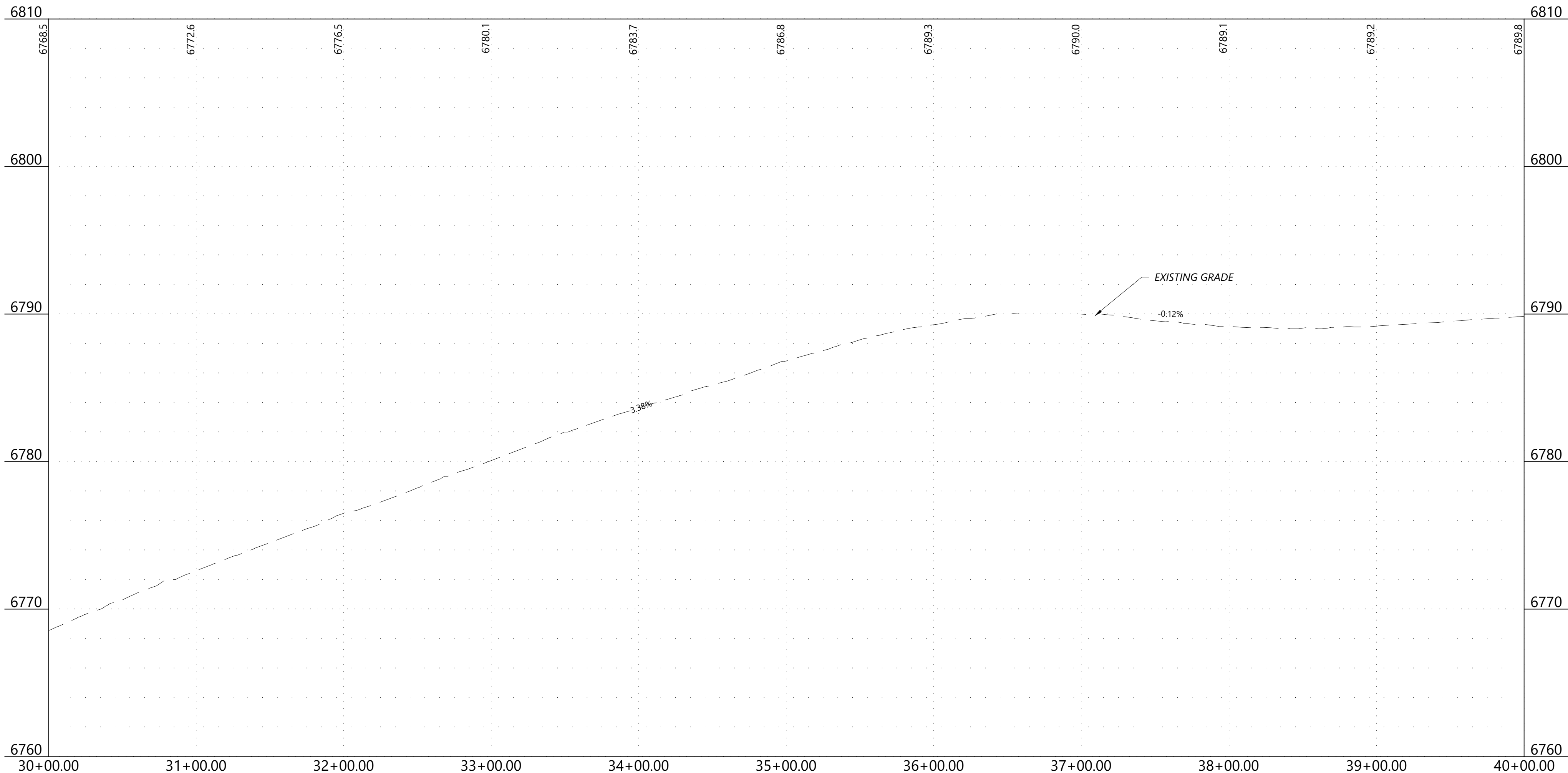


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LEGEND & ABBREVIATIONS

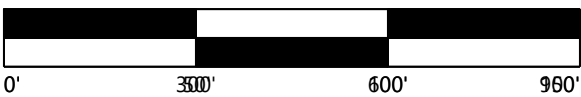
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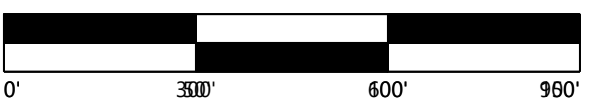
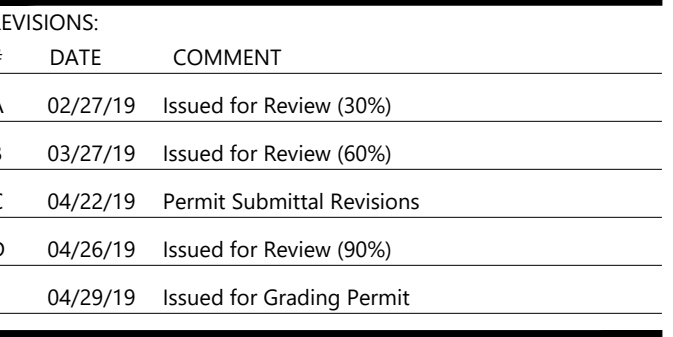
Grazing Yak
Solar

El Paso County, Colorado

Plan Profile - Main
Access Rd Sheet 4

DATE: 04/29/2019

SHEET: PR.004



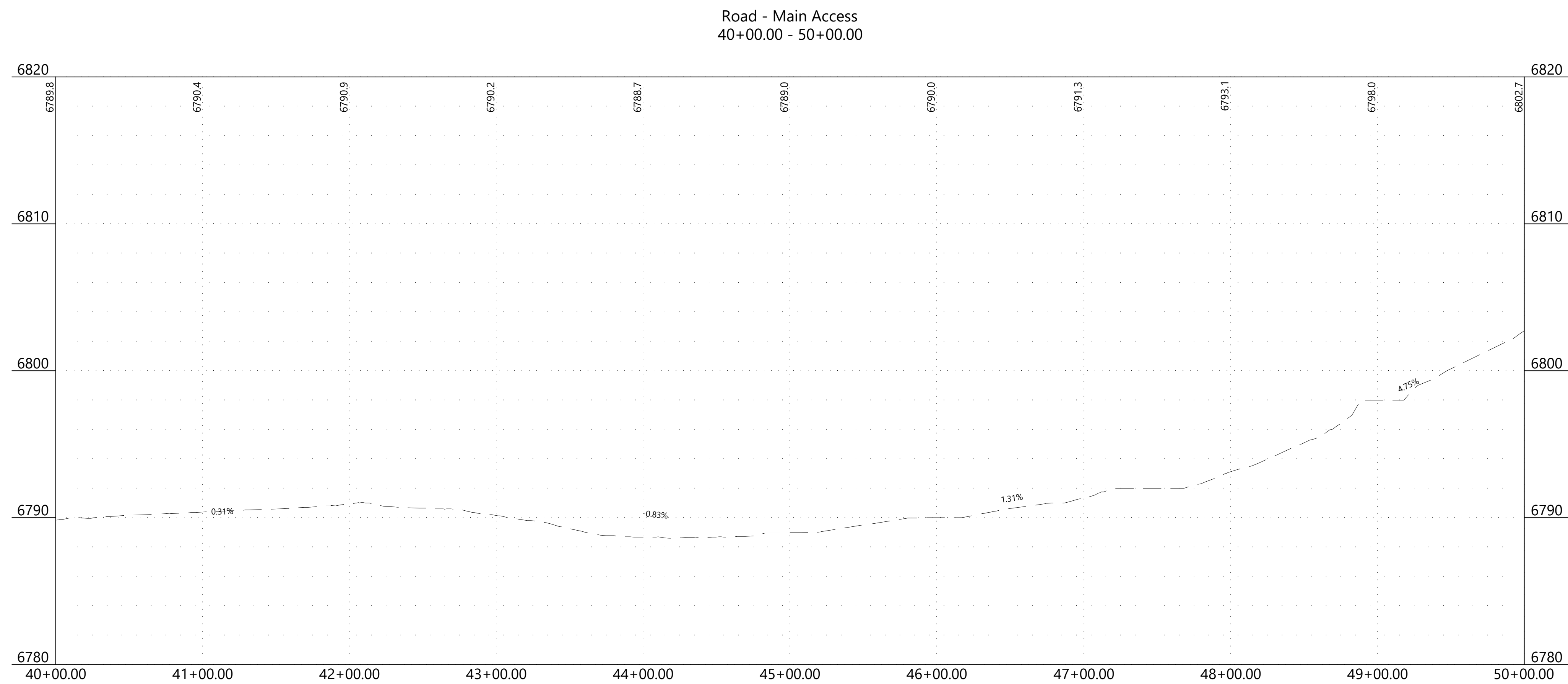
El Paso County, Colorado

DATE: 04/29/2019

SHEET: PR.005



EX. PROJECT BOUNDARY LINE
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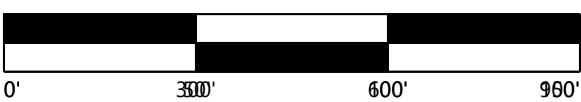




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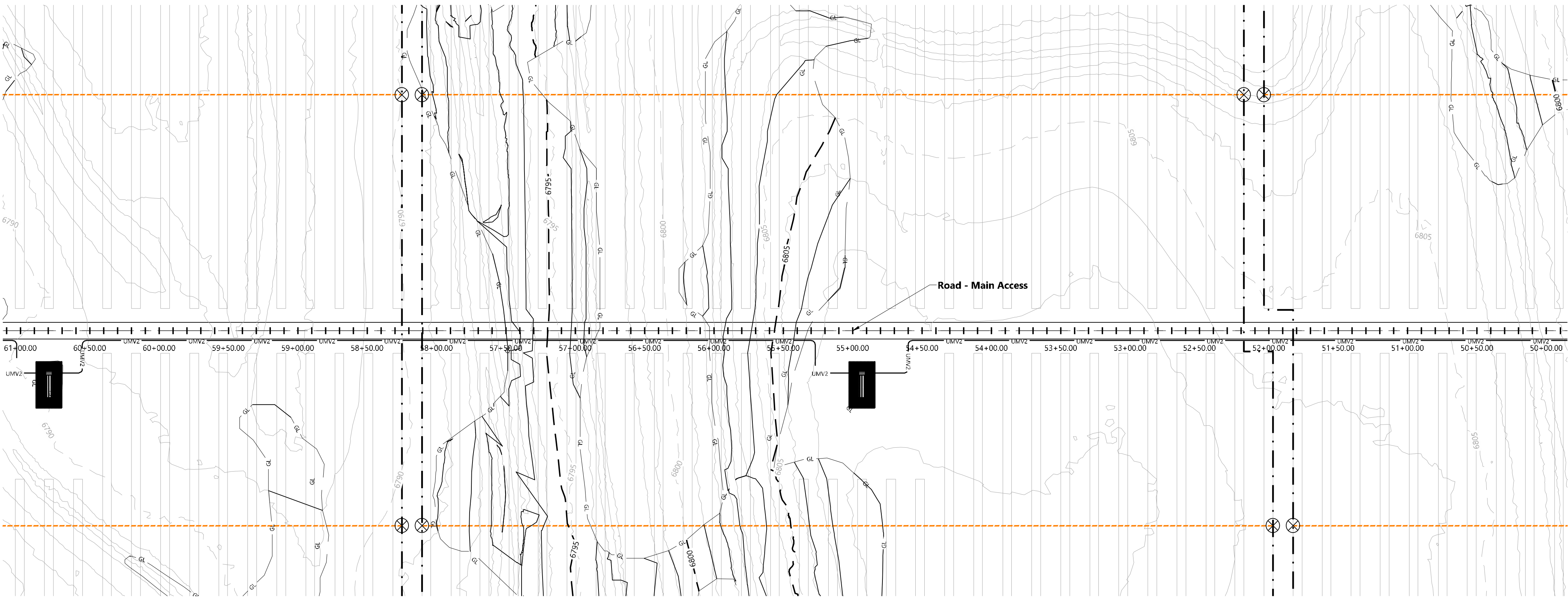
Grazing Yak Solar

El Paso County, Colorado

Plan Profile - Main
Access Rd Sheet 6

DATE: 04/29/2019

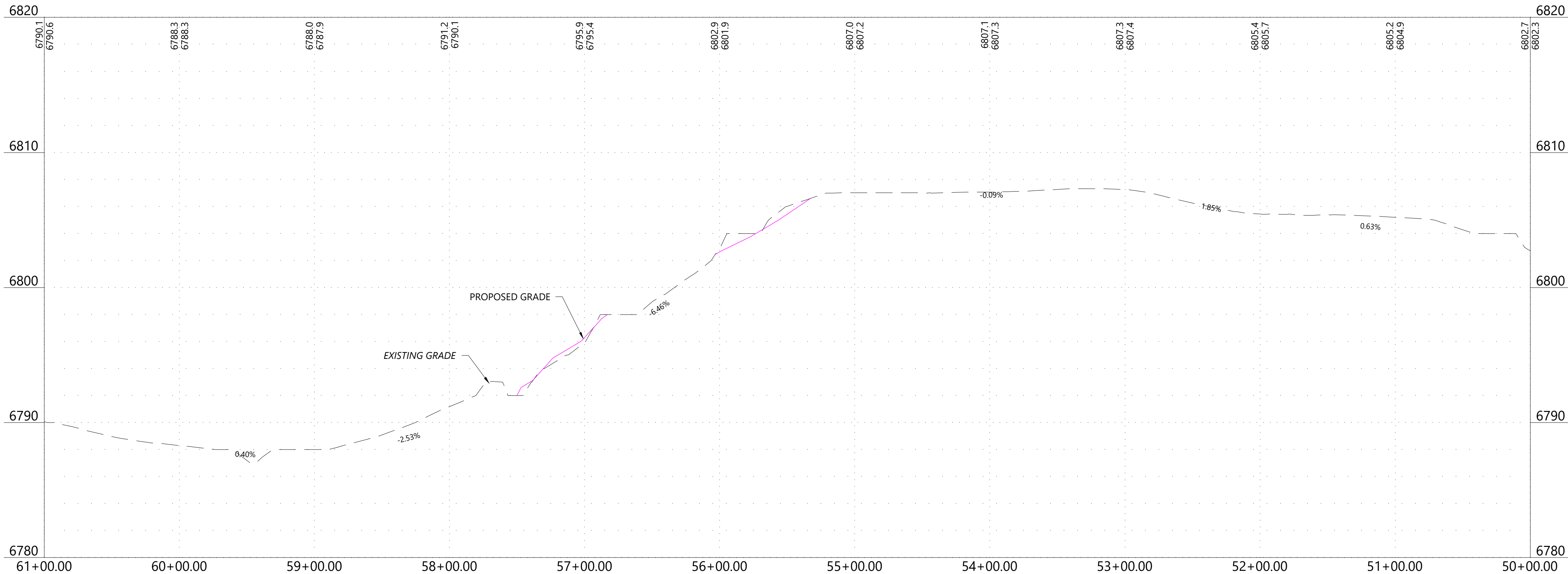
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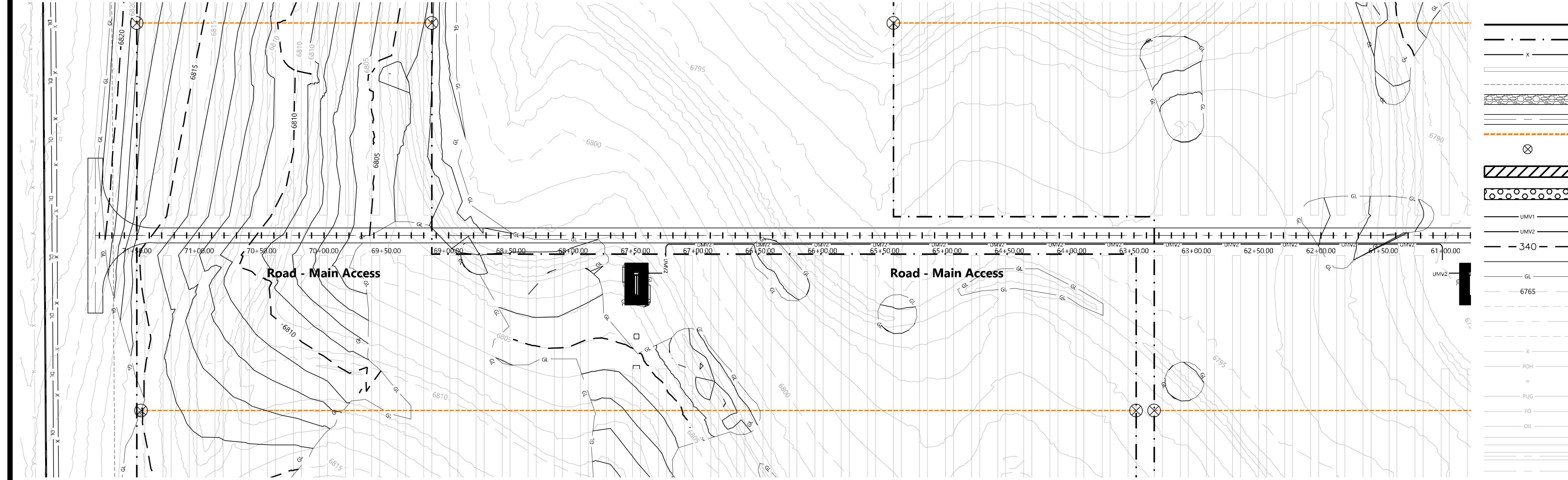


LEGEND & ABBREVIATIONS

---	EX. PROJECT BOUNDARY LINE
- . - . -	INVERTER BLOCK BOUNDARY
- x -	PROPOSED FENCE LINE
---	PROPOSED SOLAR TRACKER
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---	EX. GROUND SWALE
---	EX. RIGHT OF WAY LINE
---	INVERTER/TRANSFORMER SKID

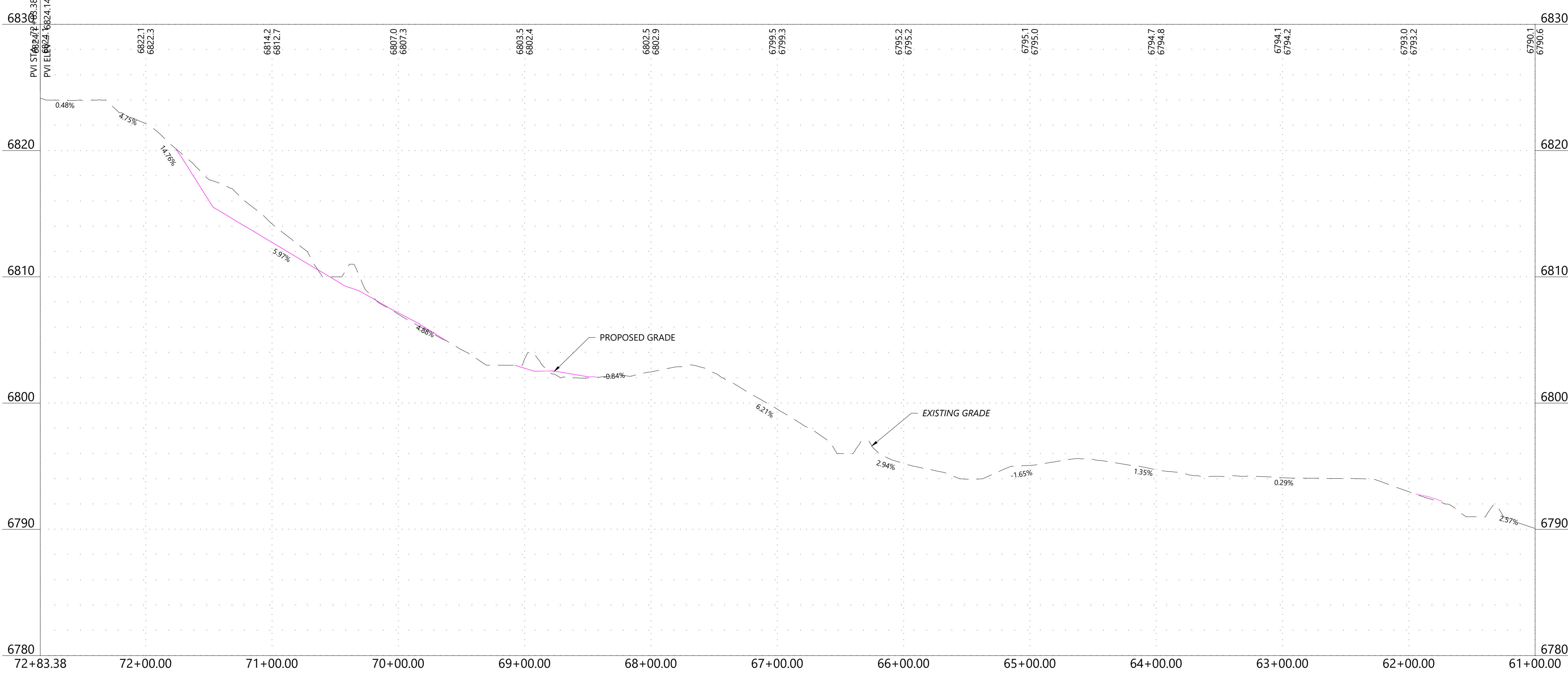
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- LEGEND & ABBREVIATIONS**
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Westminster, CO 80021 westwoodps.com

Westwood Professional Services, Inc.

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Grazing Yak Solar

El Paso County, Colorado

Plan Profile - Main Access Rd Sheet 7

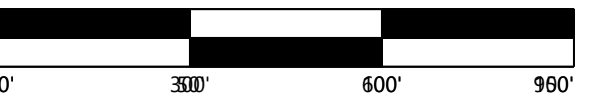
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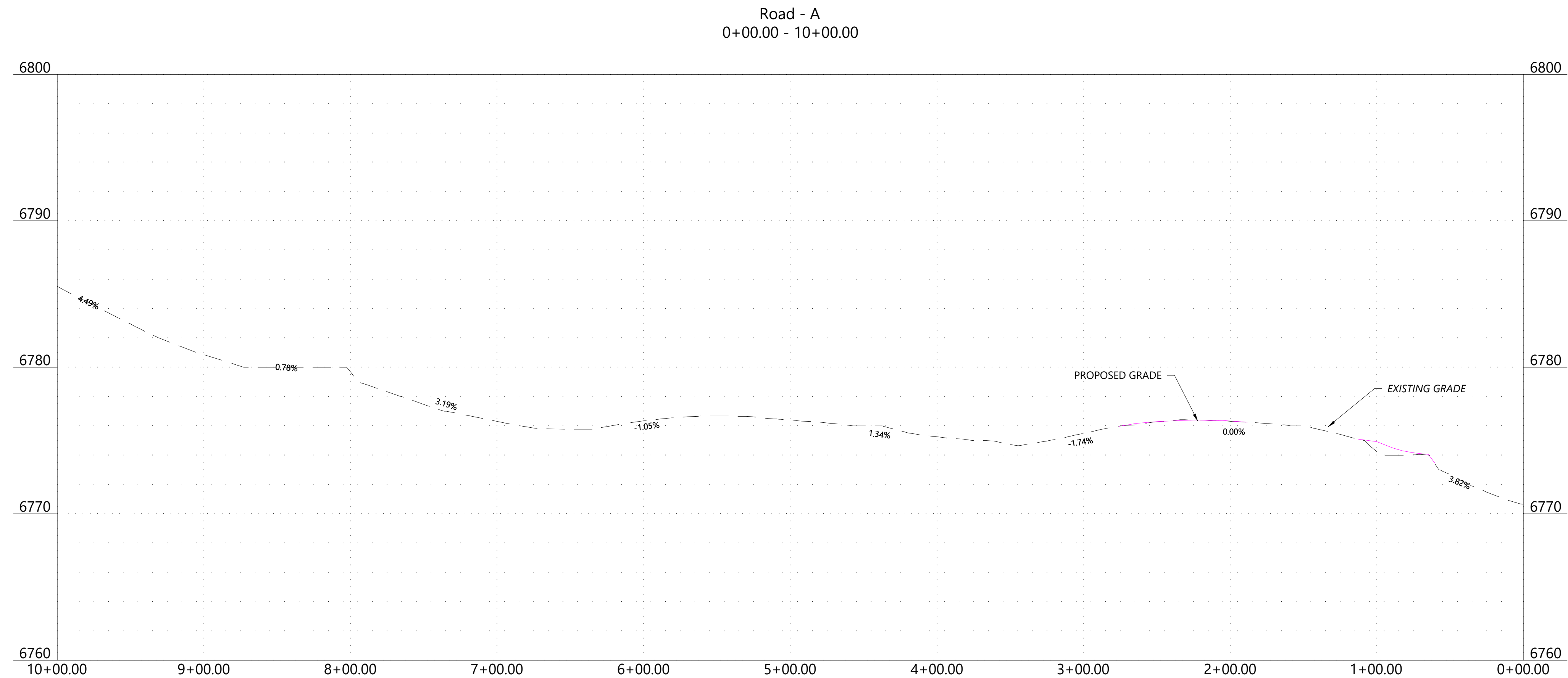
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El Paso County, Colorado

DATE: 04/29/2019

SHEET: **PR.008**

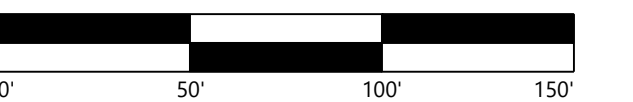


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Mortenson
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ENERGY

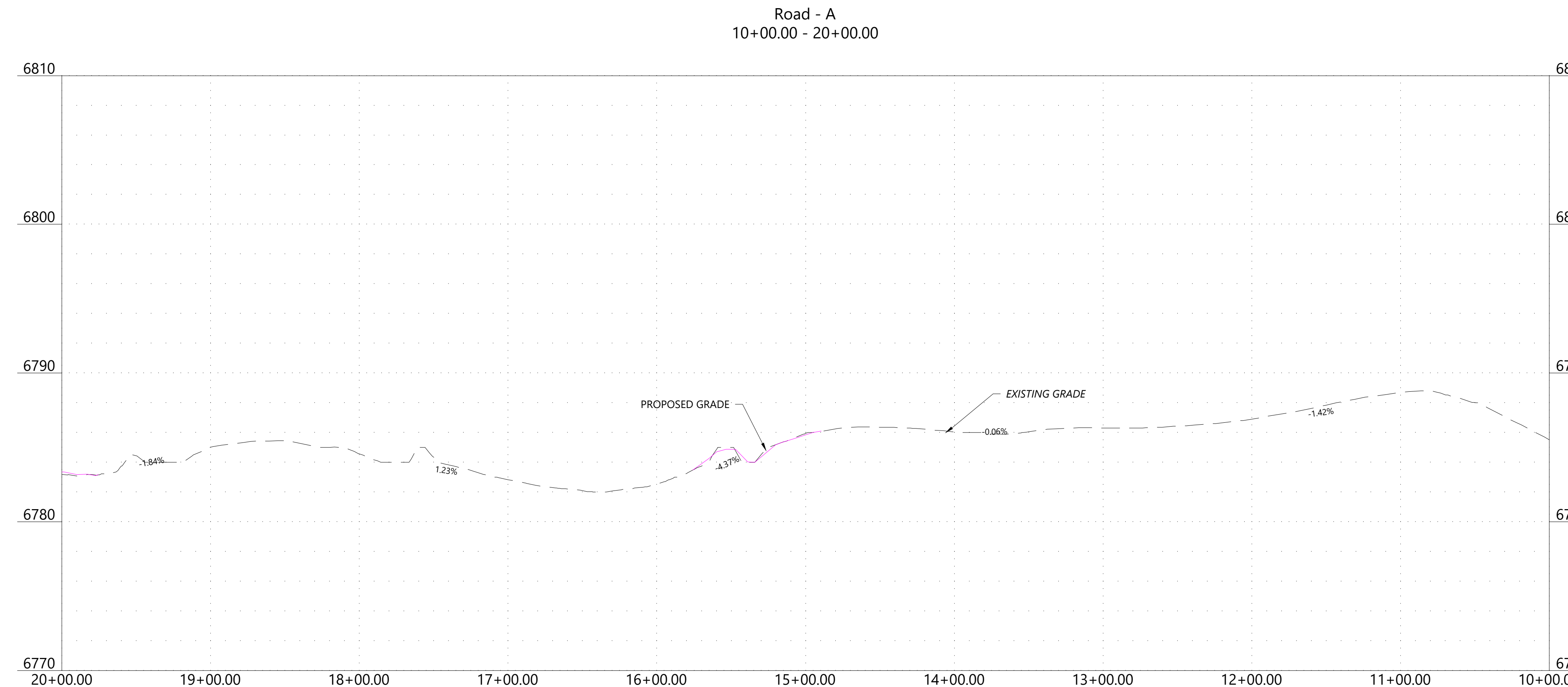
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El Paso County, Colorado

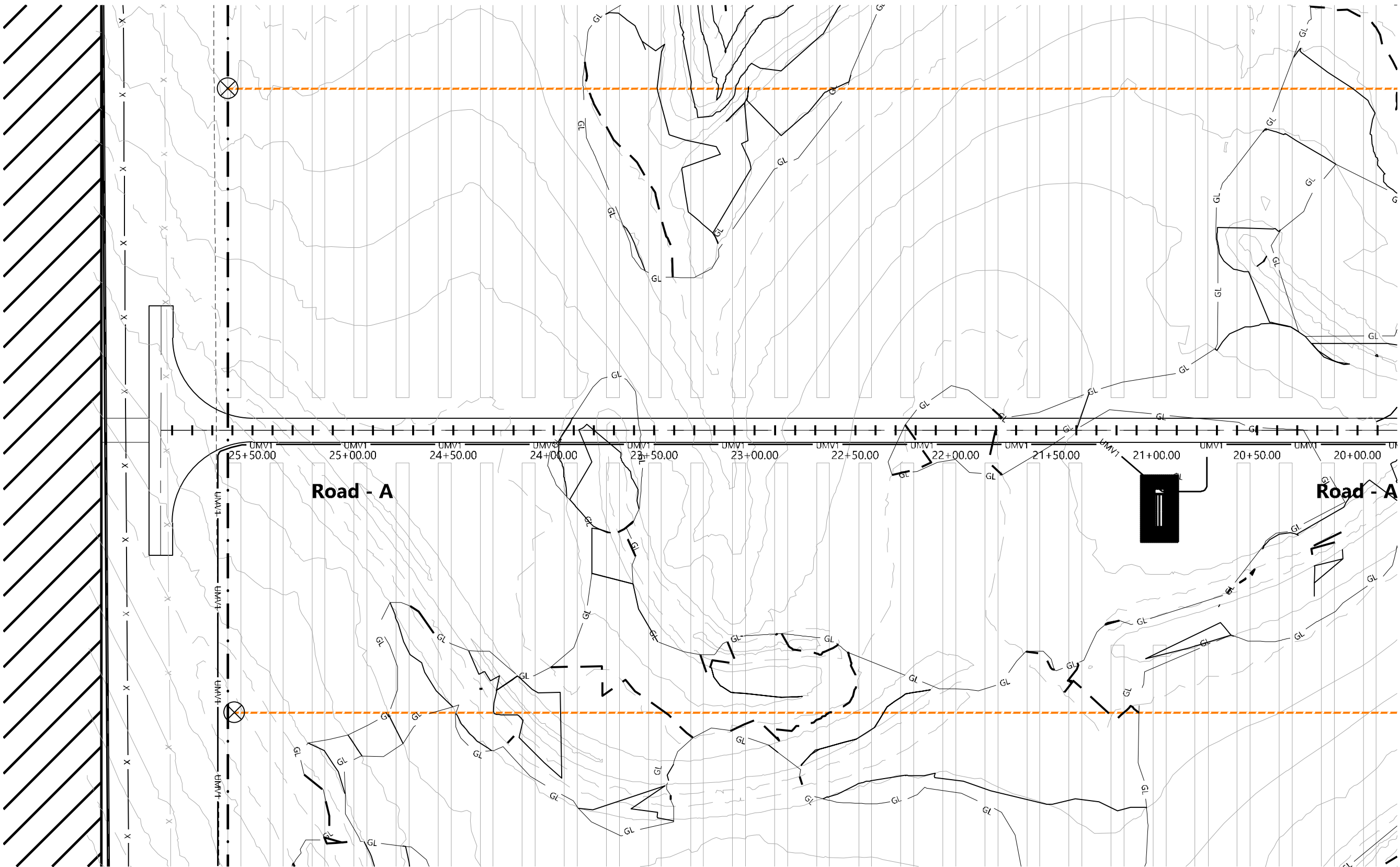
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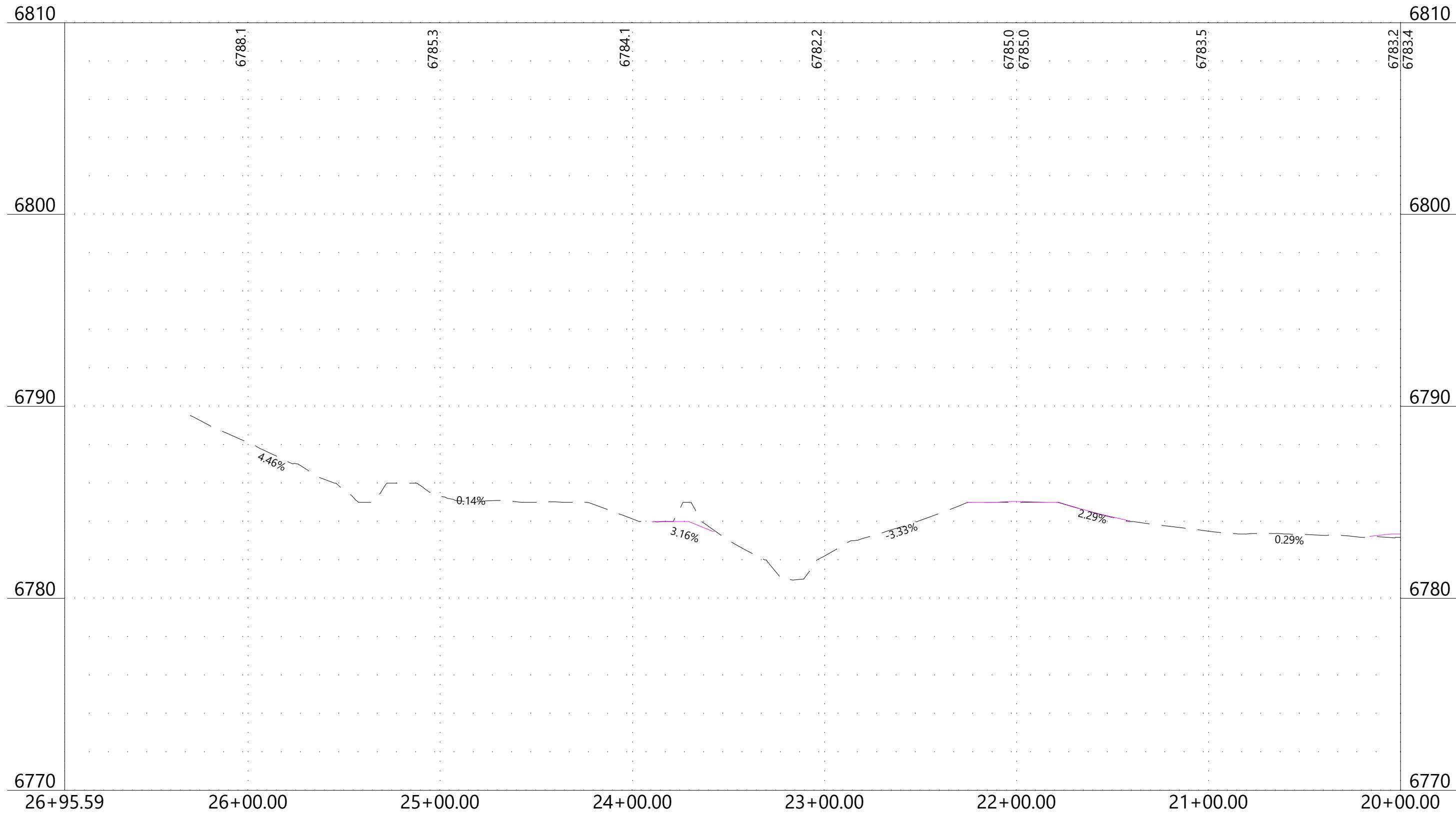


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LEGEND & ABBREVIATIONS

- EX. PROJECT BOUNDARY LINE
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- PROPOSED SOLAR TRACKER
- 55' EQUIPMENT SET BACK LINE
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- PROPOSED ACCESS RD. (NO GRAVEL)
- PROPOSED CAB
- PROPOSED DEAD END POST (IF REQ'D)
- PROPOSED LAYDOWN AREA
- PROPOSED PROTECTED CROSSING
- PROPOSED UNDERGROUND CIRCUIT 1
- PROPOSED UNDERGROUND CIRCUIT 2
- PROPOSED INDEX CONTOUR LINE
- PROPOSED INTERVAL CONTOUR LINE
- PROPOSED GRADING LIMITS
- EX. INDEX CONTOUR LINE
- EX. INTERVAL CONTOUR LINE
- EX. SECTION LINE
- EX. EASEMENT LINE
- EX. FENCE LINE
- EX. OVERHEAD POWERLINE
- EX. UTILITY POLE
- EX. UNDERGROUND ELECTRICAL
- EX. FIBER OPTIC LINE
- EX. OIL LINE
- EX. GRAVEL ROAD
- EX. ASPHALT PAVEMENT ROAD
- EX. ROAD CENTERLINE
- EX. TRAIL CENTERLINE
- EX. GROUND SWALE
- EX. RIGHT OF WAY LINE
- INVERTER/TRANSFORMER SKID



PREPARED FOR:



REVISIONS:		
#	DATE	COMMENT
A	02/27/19	Issued for Review (30%)
B	03/27/19	Issued for Review (60%)
C	04/22/19	Permit Submittal Revisions
D	04/26/19	Issued for Review (90%)
E	04/29/19	Issued for Grading Permit

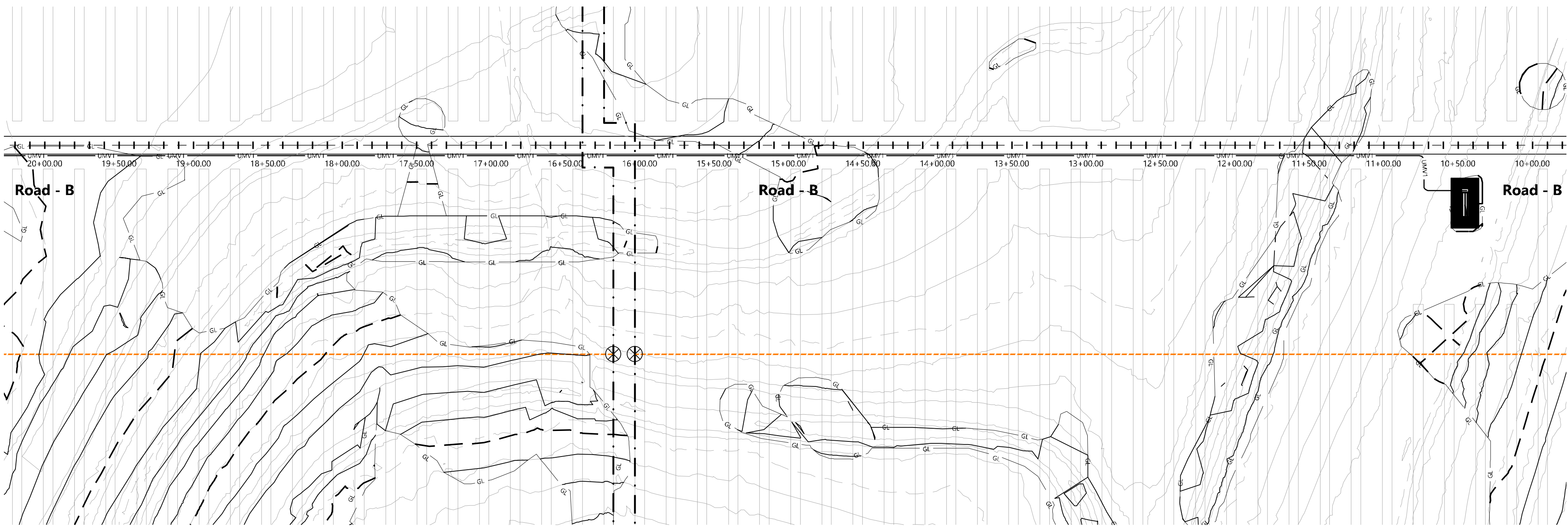
**Grazing Yak
Solar**

El Paso County, Colorado

Plan Profile - Road-A
Sheet 10

DATE: 04/29/2019

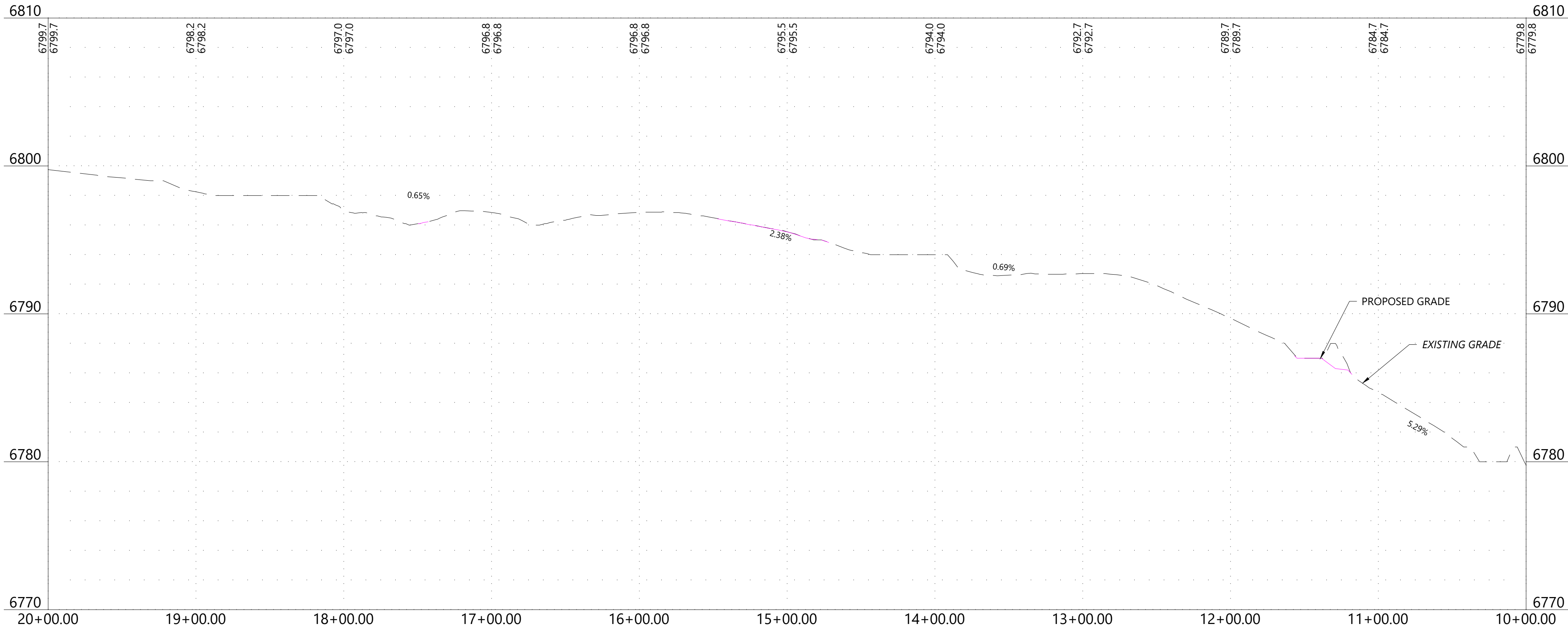
SHEET: PR.010



LEGEND & ABBREVIATIONS

- EX. PROJECT BOUNDARY LINE
- INVERTER BLOCK BOUNDARY
- PROPOSED FENCE LINE
- PROPOSED SOLAR TRACKER
- 55' EQUIPMENT SET BACK LINE
- PROPOSED GRAVELED ACCESS ROAD
- PROPOSED ACCESS RD. (NO GRAVEL)
- PROPOSED CAB
- PROPOSED DEAD END POST (IF REQ'D)
- PROPOSED LAYDOWN AREA
- PROPOSED PROTECTED CROSSING
- PROPOSED UNDERGROUND CIRCUIT 1
- PROPOSED UNDERGROUND CIRCUIT 2
- PROPOSED INDEX CONTOUR LINE
- PROPOSED INTERVAL CONTOUR LINE
- PROPOSED GRADING LIMITS
- EX. INDEX CONTOUR LINE
- EX. INTERVAL CONTOUR LINE
- EX. SECTION LINE
- EX. EASEMENT LINE
- EX. FENCE LINE
- EX. OVERHEAD POWERLINE
- EX. UTILITY POLE
- EX. UNDERGROUND ELECTRICAL
- EX. FIBER OPTIC LINE
- EX. OIL LINE
- EX. GRAVEL ROAD
- EX. ASPHALT PAVEMENT ROAD
- EX. ROAD CENTERLINE
- EX. TRAIL CENTERLINE
- EX. GROUND SWALE
- EX. RIGHT OF WAY LINE
- INVERTER/TRANSFORMER SKID

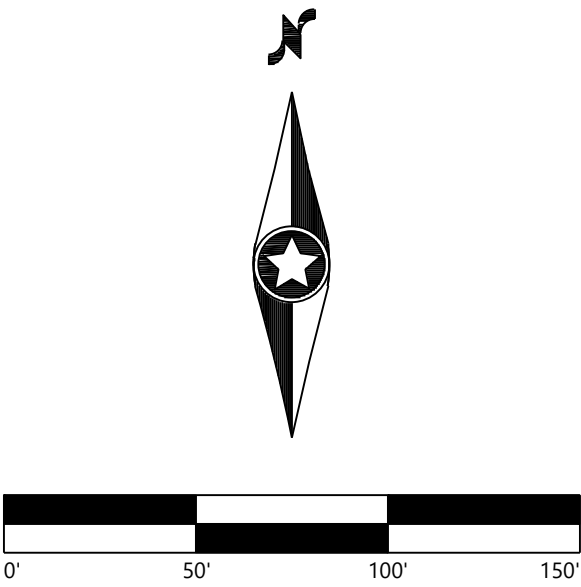
Road - B
10+00.00 - 20+00.00



PREPARED FOR:



REVISIONS:		
#	DATE	COMMENT
A	02/27/19	Issued for Review (30%)
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**Grazing Yak
Solar**

El Paso County, Colorado

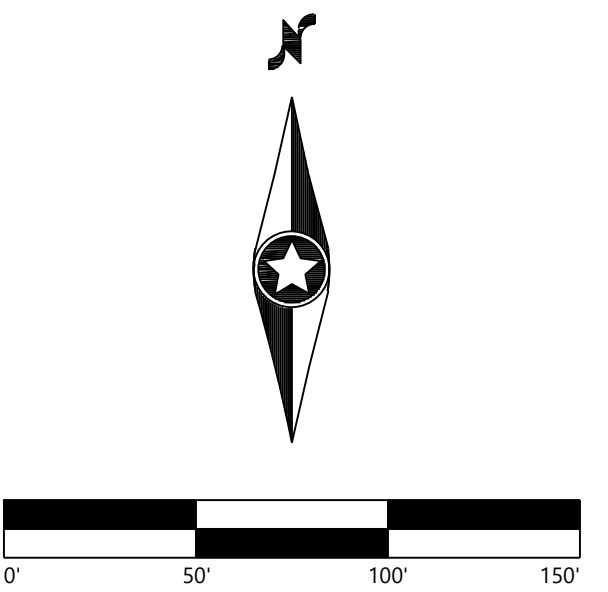
Plan Profile - Road-B
Sheet 12

DATE: 04/29/2019

SHEET: PR.012



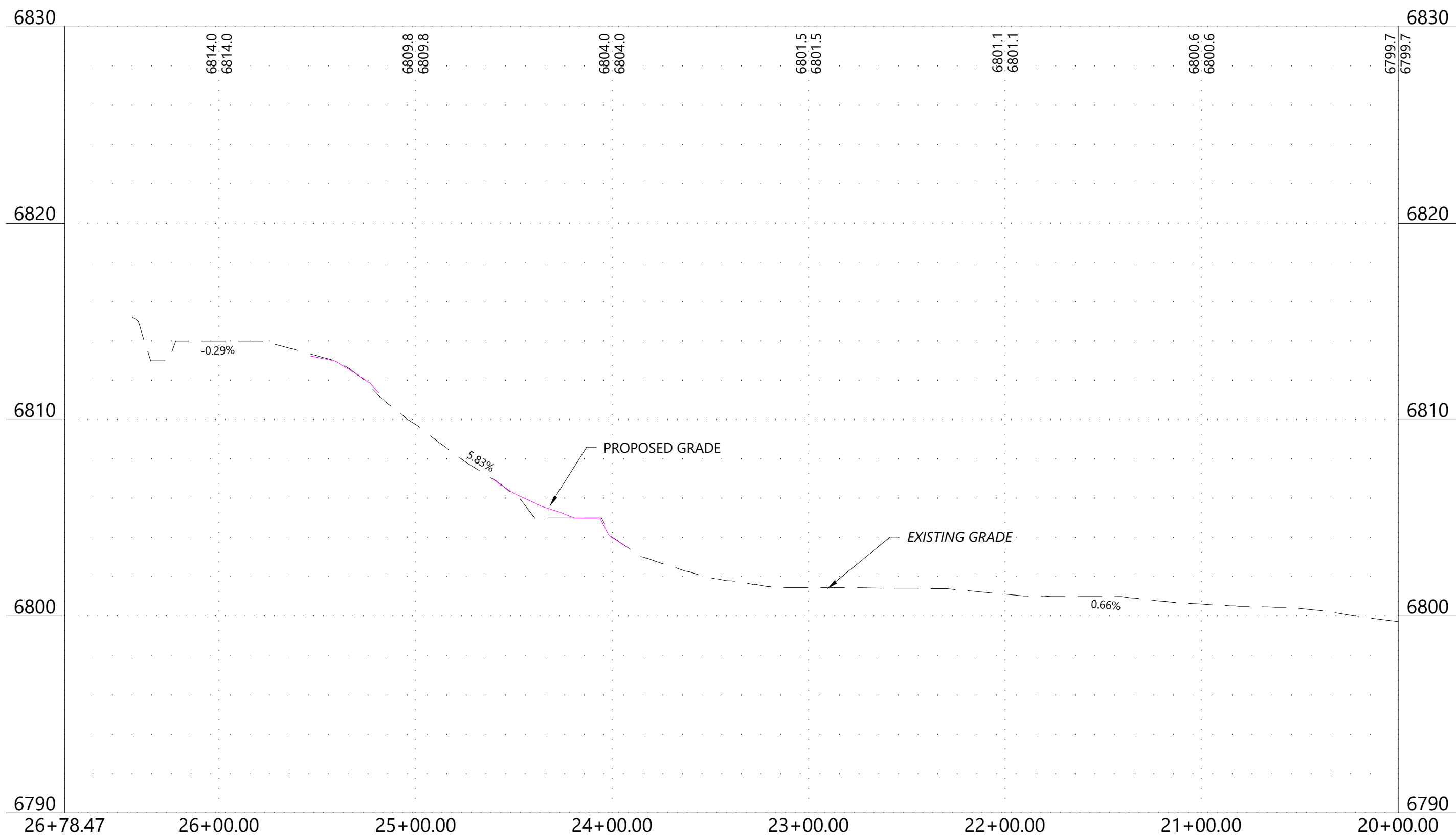
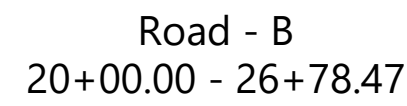
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03/27/19	Issued for Review (60%)
04/22/19	Permit Submittal Revisions
04/26/19	Issued for Review (90%)
04/29/19	Issued for Grading Permit



El Paso County, Colorado

DATE: 04/29/2019

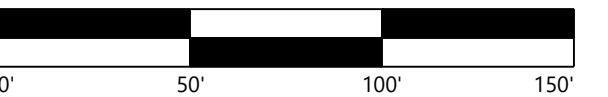
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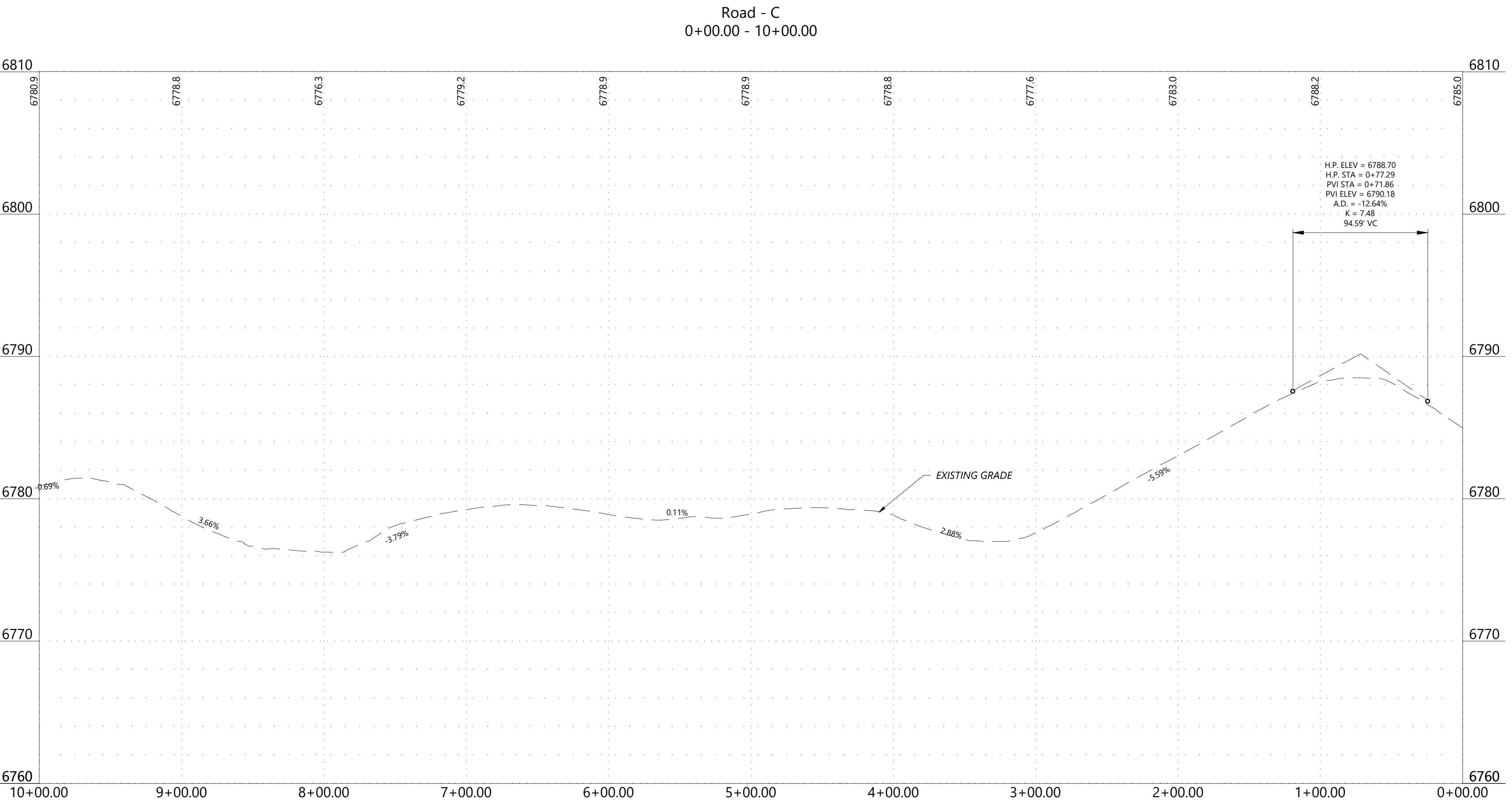
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03/27/19	Issued for Review (60%)
04/22/19	Permit Submittal Revisions
04/26/19	Issued for Review (90%)
04/29/19	Issued for Grading Permit



El Paso County, Colorado

DATE: 04/29/2019

SHEET: PR.014



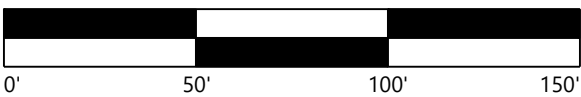
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PREPARED FOR:



REVISIONS:		
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Grazing Yak Solar

El Paso County, Colorado

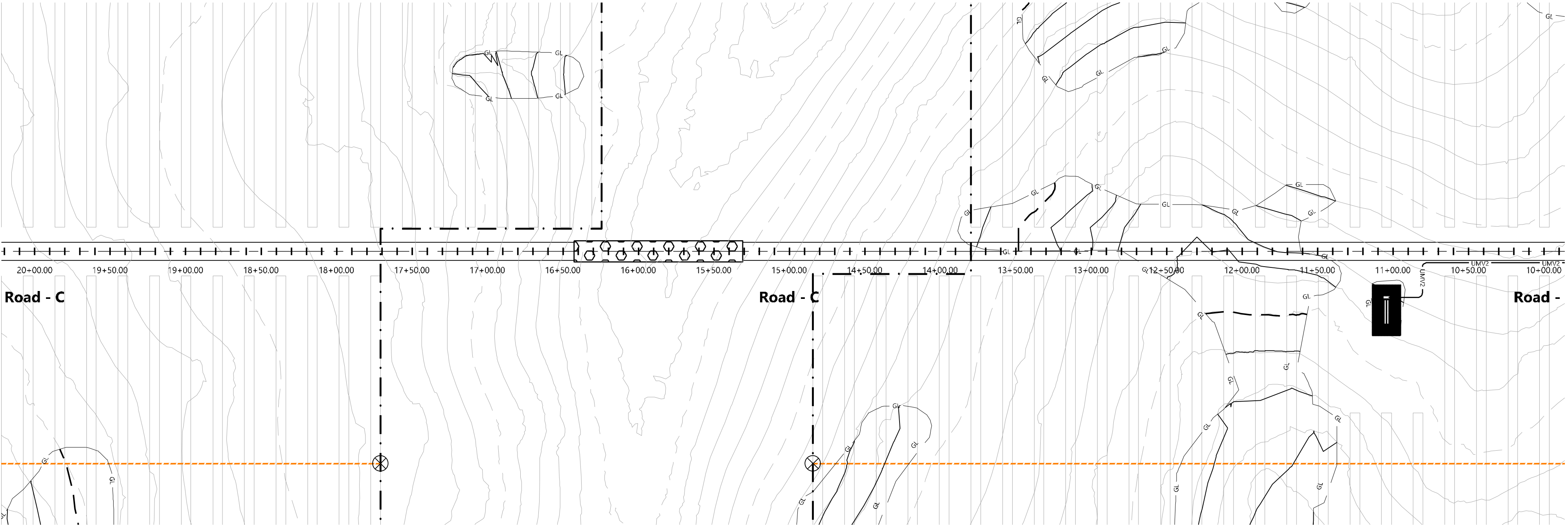
Plan Profile - Road-C
Sheet 15

DATE: 04/29/2019

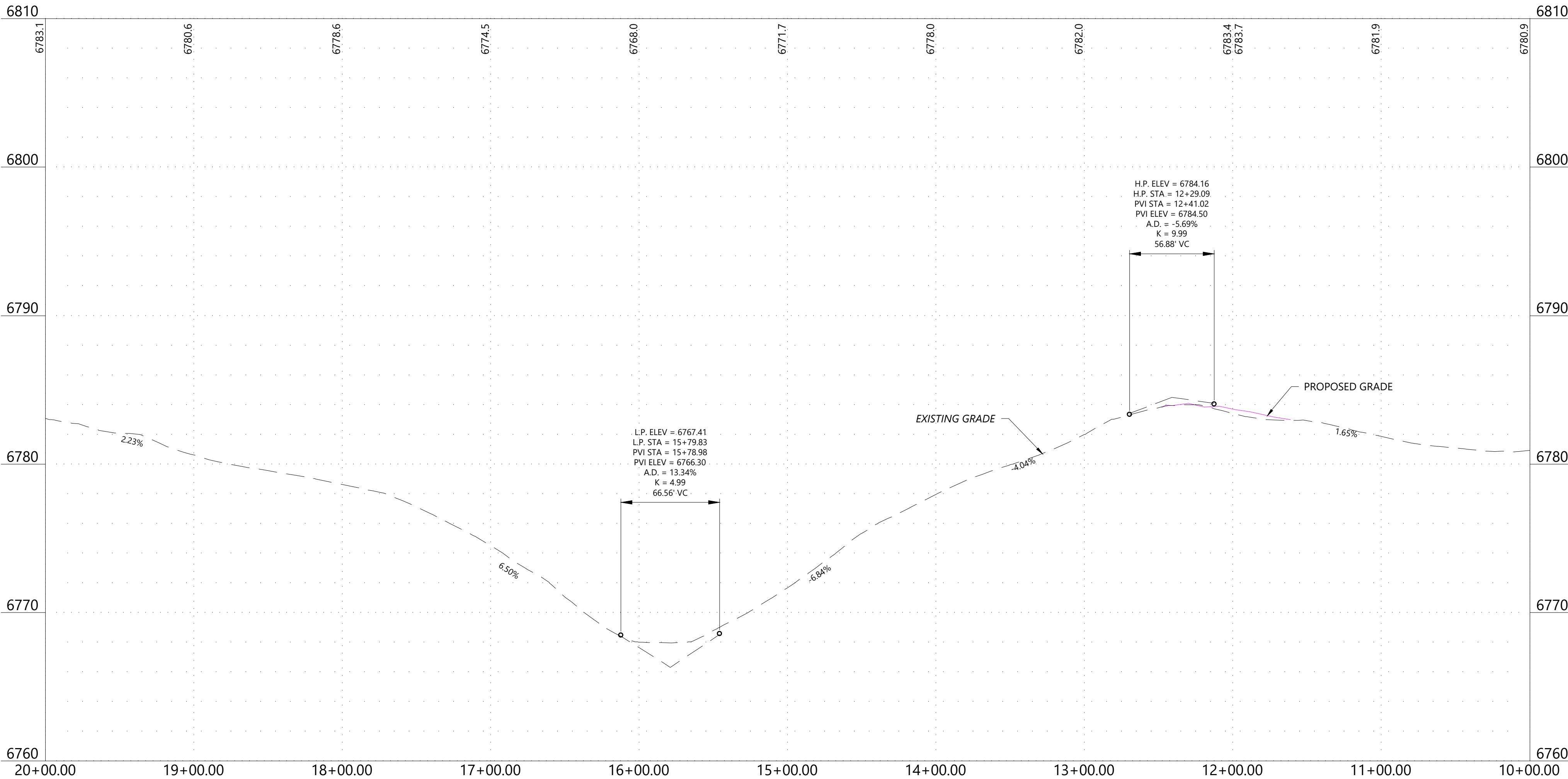
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LEGEND & ABBREVIATIONS

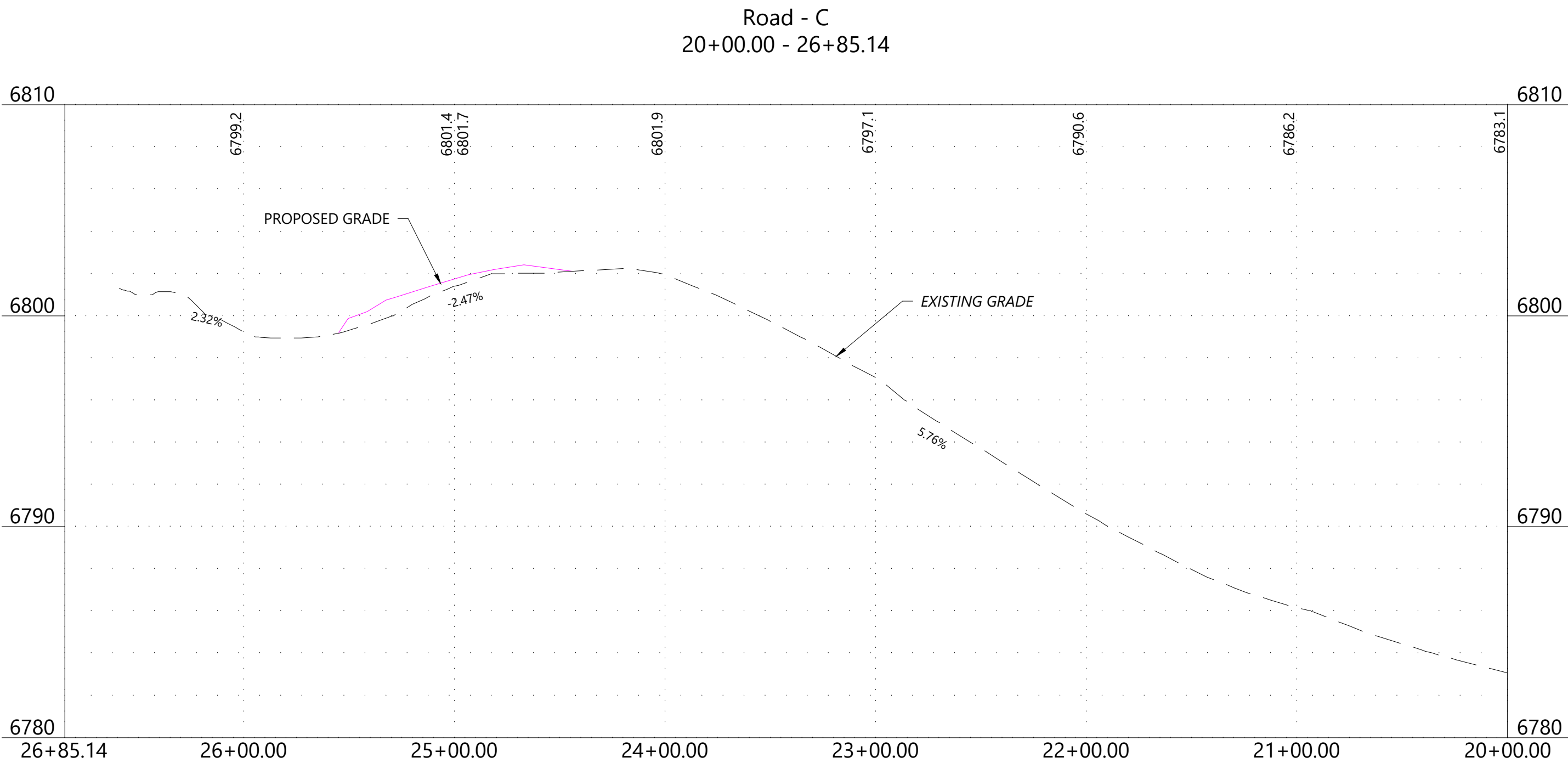
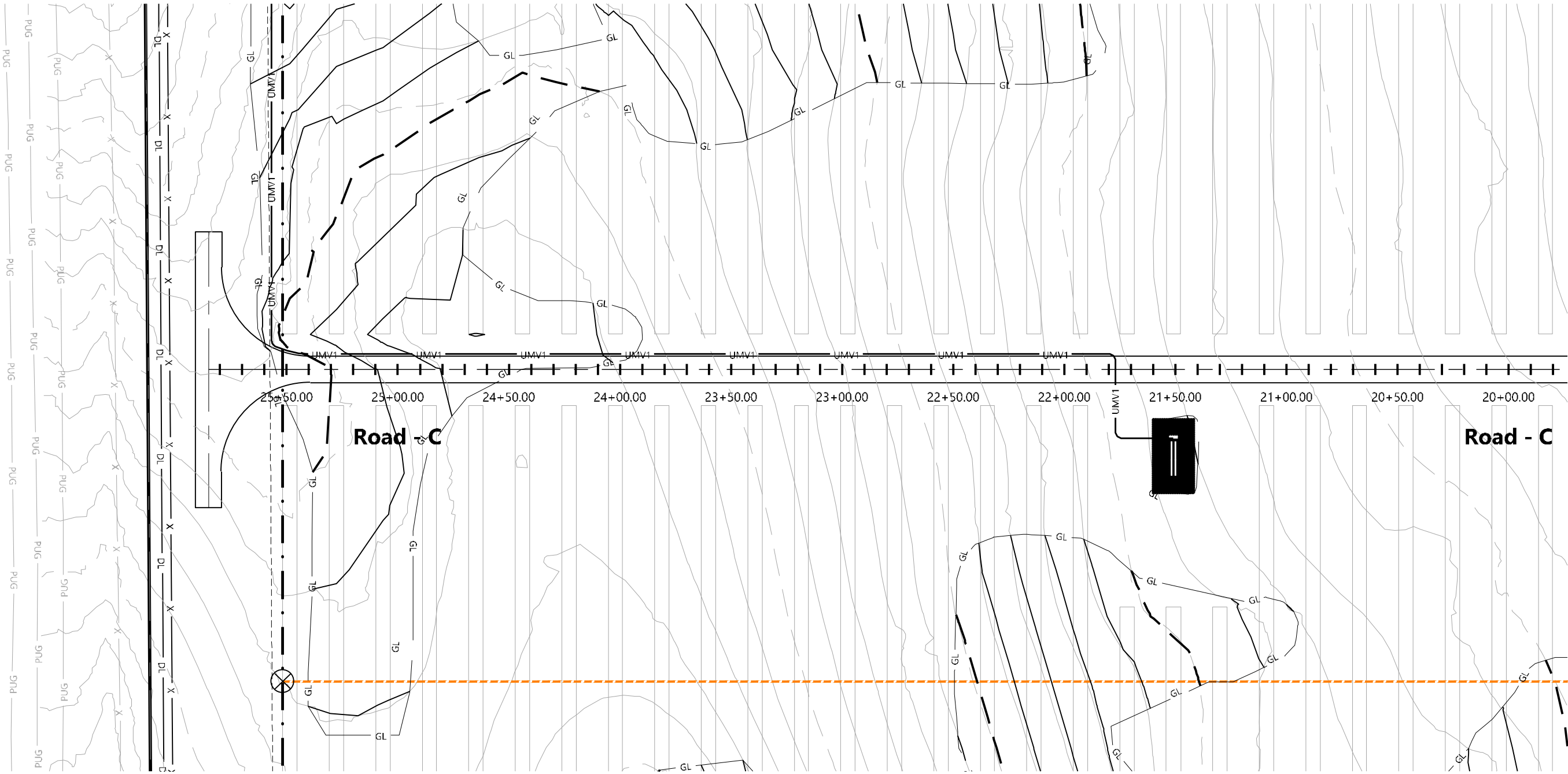
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	INVERTER BLOCK BOUNDARY
	PROPOSED FENCE LINE
	PROPOSED SOLAR TRACKER
	55' EQUIPMENT SET BACK LINE
	PROPOSED GRAVELED ACCESS ROAD
	PROPOSED ACCESS RD. (NO GRAVEL)
	PROPOSED CAB
	PROPOSED DEAD END POST (IF REQ'D)
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	PROPOSED UNDERGROUND CIRCUIT 1
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	PROPOSED INTERVAL CONTOUR LINE
	PROPOSED GRADING LIMITS
	EX. INDEX CONTOUR LINE
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	EX. EASEMENT LINE
	EX. FENCE LINE
	EX. OVERHEAD POWERLINE
	EX. UTILITY POLE
	EX. UNDERGROUND ELECTRICAL
	EX. FIBER OPTIC LINE
	EX. OIL LINE
	EX. GRAVEL ROAD
	EX. ASPHALT PAVEMENT ROAD
	EX. ROAD CENTERLINE
	EX. TRAIL CENTERLINE
	EX. GROUND SWALE
	EX. RIGHT OF WAY LINE
	INVERTER/TRANSFORMER SKID



Road - C
10+00.00 - 20+00.00



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LEGEND & ABBREVIATIONS

- | | |
|--|-----------------------------------|
| | EX. PROJECT BOUNDARY LINE |
| | INVERTER BLOCK BOUNDARY |
| | PROPOSED FENCE LINE |
| | PROPOSED SOLAR TRACKER |
| | 55' EQUIPMENT SET BACK LINE |
| | PROPOSED GRAVELED ACCESS ROAD |
| | PROPOSED ACCESS RD. (NO GRAVEL) |
| | PROPOSED CAB |
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| | PROPOSED INTERVAL CONTOUR LINE |
| | PROPOSED GRADING LIMITS |
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| | EX. SECTION LINE |
| | EX. EASEMENT LINE |
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| | EX. UNDERGROUND ELECTRICAL |
| | EX. FIBER OPTIC LINE |
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| | EX. GRAVEL ROAD |
| | EX. ASPHALT PAVEMENT ROAD |
| | EX. ROAD CENTERLINE |
| | EX. TRAIL CENTERLINE |
| | EX. GROUND SWALE |
| | EX. RIGHT OF WAY LINE |
| | INVERTER/TRANSFORMER SKID |

Westwood

Phone (720) 531-8350 10170 Church Ranch Way, Suite #100
Westminster, CO 80021 westwoodps.com

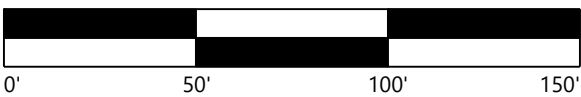
Westwood Professional Services, Inc.



PREPARED FOR:



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Grazing Yak Solar

El Paso County, Colorado

Plan Profile - Road-C
Sheet 16

DATE: 04/29/2019

SHEET: PR.016

Markup Summary

dsdparsons (6)

provided detail

Subject: Callout
Page Label: [5] C.210 Fence Plan
Author: dsdparsons
Date: 5/20/2019 11:16:29 AM
Color: ■

provided detail

add a signature block for the Director to sign this site development plan.

Subject: Callout
Page Label: [1] C.100 Cover Sheet
Author: dsdparsons
Date: 5/20/2019 11:44:15 AM
Color: ■

add a signature block for the Director to sign this site development plan.

See standard checklist; Add all items;
- Identify dimensional standards for this project in notes

Subject: Callout
Page Label: [1] C.100 Cover Sheet
Author: dsdparsons
Date: 5/20/2019 11:44:42 AM
Color: ■

See standard checklist; Add all items;
- Identify dimensional standards for this project in notes

solar facility?

Subject: Callout
Page Label: [1] C.100 Cover Sheet
Author: dsdparsons
Date: 5/20/2019 11:45:07 AM
Color: ■

solar facility?

Grazing Yak
El Paso County, Colorado -
Civil Construction Plans -
Issued For Grading Permit

Subject: Callout
Page Label: [1] C.100 Cover Sheet
Author: dsdparsons
Date: 5/20/2019 11:47:22 AM
Color: ■

SITE DEVELOPMNE PLAN

This is for construction of complete facility.

This appears to be an early grading plan?

Subject: Callout
Page Label: [1] C.100 Cover Sheet
Author: dsdparsons
Date: 5/28/2019 12:18:55 PM
Color: ■

This appears to be an early grading plan?

Steve Kuehster (3)

See comment on the Drainage report. provide a facility that has an outlet structure that meets UDFCD details. (Sand Filter Basin with Full Spectrum outlet structure).

Subject: text box
Page Label: [8] C.302 Civil Plan Set - 3
Author: Steve Kuehster
Date: 5/24/2019 12:22:09 PM
Color: ■


See comment on the Drainage report. provide a facility that has an outlet structure that meets UDFCD details, (Sand Filter Basin with Full Spectrum outlet structure).

See comment on the Drainage report. provide a facility that has an outlet structure that meets UDFCD details. (Sand Filter Basin with Full Spectrum outlet structure).

Subject: text box
Page Label: [1] C.100 Cover Sheet
Author: Steve Kuehster
Date: 5/24/2019 12:22:42 PM
Color: ■

See comment on the Drainage report. provide a facility that has an outlet structure that meets UDFCD details, (Sand Filter Basin with Full Spectrum outlet structure).

Sign-off by El Paso County Engineering will be on the Grading and Erosion Control Plans. However, PCD Engineering will review the Site Development Plan when resubmitted to address the PCD project managers comments (in green).

Subject: text box
Page Label: [1] C.100 Cover Sheet
Author: Steve Kuehster
Date: 5/24/2019 12:27:52 PM
Color: 

Sign-off by El Paso County Engineering will be on the Grading and Erosion Control Plans. However, PCD Engineering will review the Site Development Plan when resubmitted to address the PCD project managers comments (in green).