



LEGEND

- EXISTING GRADE MAJOR CONTOUR
- EXISTING GRADE MINOR CONTOUR
- PROPOSED GRADE MAJOR CONTOUR
- PROPOSED GRADE MINOR CONTOUR
- PROPOSED SUBSTATION BASELINE
- CHANNEL FENCE
- INVERT ELEVATION
- DITCH BOTTOM
- SUBGRADE (TOP OF FLEXIBLE BASE)
- EXISTING GRADE

NOTES

- CUT AND FILL VOLUMES ARE RAW VOLUMES WITH NO ALLOWANCES FOR SHRINKAGE WHERE APPLICABLE.
- THE CONTRACTOR SHALL STRIP ALL TOPSOIL AND ORGANIC MATERIAL FROM THE ENTIRE PROJECT AREA TO A MINIMUM DEPTH OF 6 INCHES FROM THE WORKING AREA IS IN ACCORDANCE WITH THE DEPTH SHOWN IN THE MATERIAL SCHEDULE. THE CONTRACTOR SHALL MAINTAIN THE EXISTING MATERIAL SCHEDULE RECORDS AND SHALL BE RESPONSIBLE FOR RECONSTRUCTING THE MATERIAL SCHEDULE RECORDS. A GEOTECHNICAL ENGINEER IS ON-SITE TO ENSURE THAT ALL MATERIAL SCHEDULE RECORDS ARE ACCURATE AND COMPLETE. ANY BE USED FOR EMBANKMENTS AND SLOPES OUTSIDE THE IMMEDIATE AREA OF THE PAD.
- SUITABLE EXCESS FILL INCLUDING WASTE TOP SOILS MAY BE USED FOR EMBANKMENTS AND SLOPES OUTSIDE OF THE IMMEDIATE AREA OF THE PAD.
- SITE AND ADJACENT TO BE COVERED BY A 6 INCH ROAD BASE GRADE AS A WORKING SURFACE.
- SLOPE ACCESS ROADS FOR DRAINAGE.
- NEW YARD CONTIGUOUS AND GATE SUBGRADE AND DO NOT INCLUDE EXISTING SUBGRADE. THE CONTRACTOR SHALL MAINTAIN THE FINISH GRADE. YARD SUBGRADE TO MATCH OUT TO APPROACH GRADE. YARD FINISH ROCK WILL FEATHER OUT TO APPROACH GRADE. YARD FINISH ROCK SHALL BE FILLED WITH TOPSOIL AND RE-SEDED (FLEXIBLE BASE) SHALL BE FILLED WITH TOPSOIL AND RE-SEDED.
- ALL AREAS NOT RECEIVING CRUSHED ROCK SURFACING OR ROAD MIX (FLEXIBLE BASE) SHALL BE FILLED WITH TOPSOIL AND RE-SEDED.
- CRUSHED ROCK SURFACING SHALL NOT BE PLACED UNTIL ALL SUBGRADE CONDUIT, GROUNDING AND UTILITIES ARE COMPLETE.
- SUBGRADE INCLUDES FLEXIBLE BASE MATERIAL.
- THE EARTHWORK CONTRACTOR SHALL FURNISH AND INSTALL COMPACTED NON-EXPANSIVE BACKFILL.

APPROXIMATE EARTHWORK QUANTITIES

TOTAL DISTURBED AREA		1.8 ACRES	
TOPSOIL REMOVAL	AREA (SF)	DEPTH (IN)	VOL (CY)
YARD	7070	4	947
APPROACH	2095	4	35
TOTALS	1.8 ACRES		982 CY
RELEASED ON SITE			0
EXPORT STOCKPILED/WASTED			982 CY
CUT/FILL QUANTITIES			
	CUT	FILL	NET
APPROACH	79	62	14
NET CUTOFF TO R.G.	832	737	84
ON-SITE MATERIAL IS SUITABLE AS FILL			
	CUT	FILL	NET
ON-SITE MATERIAL IS SUITABLE AS FILL	832	737	84
STRUCTURABLE FILL/DEBRIS			0
SELECT IMPORT*			
	AREA (SF)	DEPTH (IN)	VOL (CY)
YARD-FLEXIBLE BASE	7070	9	1894
APPROACH-FLEXIBLE BASE	1600	9	40
CRUSHED ROCK SURFACING	100	0	0
RR PAD	25	0	0
TOTAL			1933
SUMMARY			
CRUSHED ROCK SURFACING - NET CUT			184
TOTAL SELECT IMPORT (NET FILL)			1933
TOTAL EXPORT (STOCKPILED/WASTED)			1078
TOTAL IMPORT (SELECT IMPORT + STRUCTURAL FILL)			1933

*TOPSOIL STRIPPED SURFACE COMPARED TO ROUGH GRADE
*BASES EXPOSED GRADE

PRELIMINARY

LIVINGSTON SOLAR PROJECT
34.5 - 345 kV SUBSTATION
SITE GRADING PLAN

ENGINEERING RECORD: DRAWN: T. FOSTER, DESIGNED: T. FOSTER, CHECKED: N. FOSTER, APPROVED: [Signature], DATE: 01/14/22, DATE: 01/14/22, DATE: 01/14/22, DATE: 01/14/22

DATE: 01/14/22
SCALE: 1"=30'
DATE: 01/14/22
SCALE: 1"=30'

PROJECT NO.: EGS-D-P002-2
DRAWING NO.: 1-A

NO.	REVISION	DATE	BY	APP.
1	PRELIMINARY	01/14/22	TBF	MBE



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1	PRELIMINARY	01/14/22	TBF	MBE

TEGI ELECTRICAL CONSULTANTS, INC.
Texas License No. 12-88P

FILE LOCATION: L:\AEP_RENEWABLES\089 Livingston\030 Design\320 Civil & Structural\222 Site Design\01-07 DWS LAST SAVED BY: Mbeane, 1/14/2022, 4:18 PM PLOTTED BY: Steven K. Compton, 1/17/2022, 9:47 AM Job Site Grading Plan