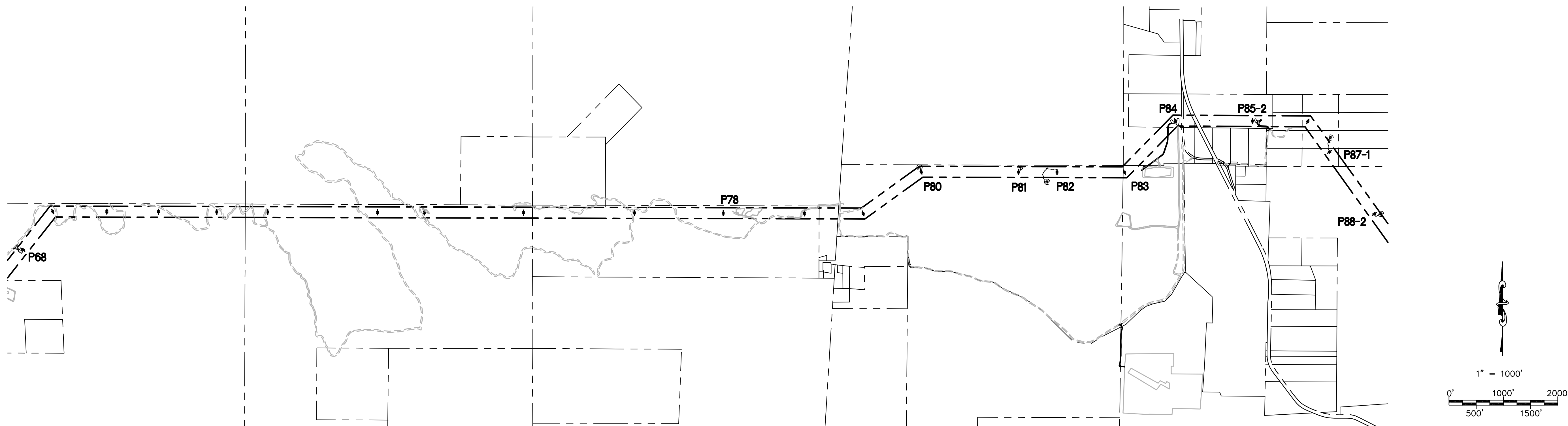


SUNRISE POWERLINK PROJECT
SECTION 08D (LINK 2)
500kV LINE



01 OFF-SITE WORK TO BE DONE

SITE / ACCESS ROAD	SHEET NUMBER
KEY MAP + MINOR ROAD IMPROVEMENTS	08D-P68-P73-KEY01
KEY MAP + MINOR ROAD IMPROVEMENTS	08D-P74-1-P77-KEY02
KEY MAP + MINOR ROAD IMPROVEMENTS	08D-P78-P81-KEY03
KEY MAP + MINOR ROAD IMPROVEMENTS	08D-P82-P88-2-KEY04
DETAIL OFF-SITE ROAD IMPROVEMENTS	08D-P73 & P75-2-ARMJ
DETAIL OFF-SITE ROAD IMPROVEMENTS	08D-P80-ARMJ1

ON-SITE WORK TO BE DONE

SITE / ACCESS ROAD	SHEET NUMBER
SITE P-68	08D-P68-S1
SITE P-83	08D-P83-S1
SITE P-84	08D-P84-S1
SITE P-85-2	08D-P85-2-S1

TOWER STAGING / ACCESS PAD
ON-SITE WORK TO BE DONE

SITE / ACCESS ROAD	SHEET NUMBER
SITE P-80	08D-P80-TSAP
SITE P-81	08D-P81-TSAP
SITE P-82	08D-P82-TSAP
SITE P-87-1	08D-P87-1-TSAP
SITE P-88-2	08D-P88-2-TSAP

TEMPORARY COMMUNICATION SITE

SITE	SHEET NUMBER
08D-P87-1	08D-P87-1 COMM

PULL-SITE WORK TO BE DONE

SITE / ACCESS ROAD	SHEET NUMBER
PULL SITE P-78	08D-P78-PS
PULL SITE P-83 (SOUTH)	08D-P83-PS-A
PULL SITE P-83 (EAST)	08D-P83-PS-B

PRIVATE ROADWAY/DRIVEWAY PLANS

SITE / ACCESS ROAD	SHEET NUMBER
TITLE SHEET	08D-DWY-01
NOTES & DETAILS	08D-DWY-02
TRAFFIC CONTROL DETAILS	08D-DWY-03
PERMIT 8D-1&2	08D-DWY-04

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH THE CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY SDG&E IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

STEPHEN K. SMITH
R.C.E. NO. 29708 EXP. 03-31-11

DATE

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:
01	ADD SHEET P73 & P75-2-ARMJ	8/24/10	MM	MB										

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SAN DIEGO, CALIFORNIA

SPL-08D (LINK 2)
TITLE SHEET

DRAWN BY: JJP	DATE: --/--	SCALE: AS NOTED	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1" = 1'			

SPL-08D-001



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P:\161919 SDG&E SPL\CADD\08D\dwg\plan\08D-CVR02GNT.dwg,May-20-2010,16:51

GENERAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTION TO THE CONTRACTOR BY THE ENGINEER OF WORK:
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE PORTIONS OF THE PROJECT SPECIFICATIONS.
 - NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD, WATER AND COMPACT ALL FILL IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS. A GEOTECHNICAL ENGINEER WILL BE THE OWNER'S REPRESENTATIVE TO INSPECT THE CONSTRUCTION OF FILLS. THE EXCAVATION AND THE PLACEMENT OF FILL WILL BE UNDER THE DIRECT INSPECTION OF THE GEOTECHNICAL ENGINEER, AND HE WILL GIVE WRITTEN NOTICE OF CONFORMANCE WITH THE SPECIFICATIONS UPON COMPLETION OF GRADING. DEVIATIONS FROM PROJECT SPECIFICATIONS WILL BE PERMITTED ONLY UPON WRITTEN AUTHORIZATION FROM THE GEOTECHNICAL ENGINEER OR THE SDG&E REPRESENTATIVE.
 - OBSERVATIONS AND COMPACTION TESTS WILL BE MADE BY THE GEOTECHNICAL ENGINEER DURING THE FILLING AND COMPACTING OPERATIONS SO THAT HE CAN STATE HIS OPINION THAT THE FILL WAS CONSTRUCTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - DURING CONSTRUCTION: THE CONTRACTOR SHALL GRADE ALL EXCAVATED AND FILLED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. HE SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISH WORK ON THE SITE. THE CONTRACTOR SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS, AND UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. AFTER GRADING IS COMPLETED AND THE GEOTECHNICAL ENGINEER HAS FINISHED HIS OBSERVATIONS OF THE WORK, NO FURTHER EXCAVATION OR FILLING SHALL BE DONE, EXCEPT UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER.
 - CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.
 - BRUSH AND TREES SHALL BE REMOVED ONLY WITHIN THE AREA TO BE GRADED. WHEN TREES ARE REMOVED, THE ROOT SYSTEMS SHALL ALSO BE REMOVED AND THE RESULTING EXCAVATION FILLED WITH PROPERLY COMPACTED FILL SOILS.
 - CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OR CROSS-SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE SDG&E REPRESENTATIVE AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPE SHALL BE REMOVED AND DISPOSED OF.
 - GRADING SHALL BE DONE WITHIN A TOLERANCE OF $\pm 0.1'$ OF THE GRADES AND ELEVATIONS SHOWN ON THESE PLANS AND ALL SLOPES SHALL BE CONSTRUCTED WITHIN $\pm 0.5'$ OF THE LOCATION SHOWN ON THESE PLANS. IN NO WAY SHALL THE ABOVE TOLERANCES RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PROVIDING A FINISH THAT WILL NOT POND WATER.
 - ANY QUANTITIES INDICATED ON THESE PLANS ARE ENGINEERS' ESTIMATES ONLY AND ARE NOT TO BE USED BY CONTRACTOR FOR BIDDING PURPOSES.
 - CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD AND BRING DISCREPANCIES TO THE ATTENTION OF THE SDG&E REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
 - STANDARD DRAWINGS SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWINGS (SDRSD), APRIL 2006.
 - THERE ARE ENVIRONMENTALLY SENSITIVE AREAS THROUGHOUT THE PROJECT THAT ARE NOT SHOWN ON THESE PLANS. YOU ARE RESPONSIBLE FOR KNOWING WHERE THESE AREAS ARE. REFER TO YOUR ENVIROMENTAL MAPBOOK AND ONE TOUCH FOR UP TO DATE INFORMATION.

EROSION CONTROL NOTES

- ALL POLE & TOWER MAINTENANCE PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
- TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
- ALL GRADED CUT OR FILL SLOPES SHALL BE HYDROSEEDDED TO PROTECT THE SLOPE FROM EROSION AND INSTABILITY IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- FIBER ROLLS SHALL BE PLACED AT TOP, TOE AND FACE (15 FOOT INTERVALS) OF GRADED ALL CUT AND FILL SLOPES TO INTERCEPT RUNOFF AND REDUCE EROSION IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

ABBREVIATIONS

(EG)	EXISTING GRADE
FG	FINISHED GRADE
TW	TOP OF WALL
BW	BOTTOM OF WALL AT FINISHED GROUND
FL	FLOW LINE
U/S	UP STREAM
D/S	DOWN STREAM
CMP	CORRUGATED METAL PIPE
RC	RELATIVE COMPACTION

LEGEND

	SECTION
	INDICATES NEW TOWER
	INDICATES EXISTING STEEL POLE
	WATER BAR PER DETAIL $\frac{5}{4}$
	BROW DITCH PER DETAIL $\frac{3}{3}$
	DIP SECTION PER DETAIL $\frac{4}{4}$
	VERTICAL PROFILE F.G. ELEV. ABOVE VERTICAL PROFILE E.G. ELEV. BELOW
	NEW TRANSMISSION LINE
	(F.G.) FINISH GRADE CONTOURS
	(E.G.) EXISTING GRADE CONTOURS
	EXISTING GROUND ELEVATION
	FILL SLOPE 2:1 UNLESS SHOWN OTHERWISE
	CUT SLOPE 2:1 UNLESS SHOWN OTHERWISE
	RIDGE LINE
	DAYLIGHT LINE
	DIRECTION OF FLOW
	CUT/FILL LINE
	CONCRETE DOWN DRAIN, SEE DETAIL $\frac{1}{3}$
	RIPRAP ENERGY DISSIPATOR, SEE DETAIL $\frac{2}{3}$
	CORRUGATED METAL PIPE WITH FLARED END SECTIONS, SEE PLANS FOR, PIPE SIZES, AND ENERGY DISSIPATOR. $\frac{6}{4}$
	DETAIL LABEL $\frac{DETAIL \#}{SHEET \#}$

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:



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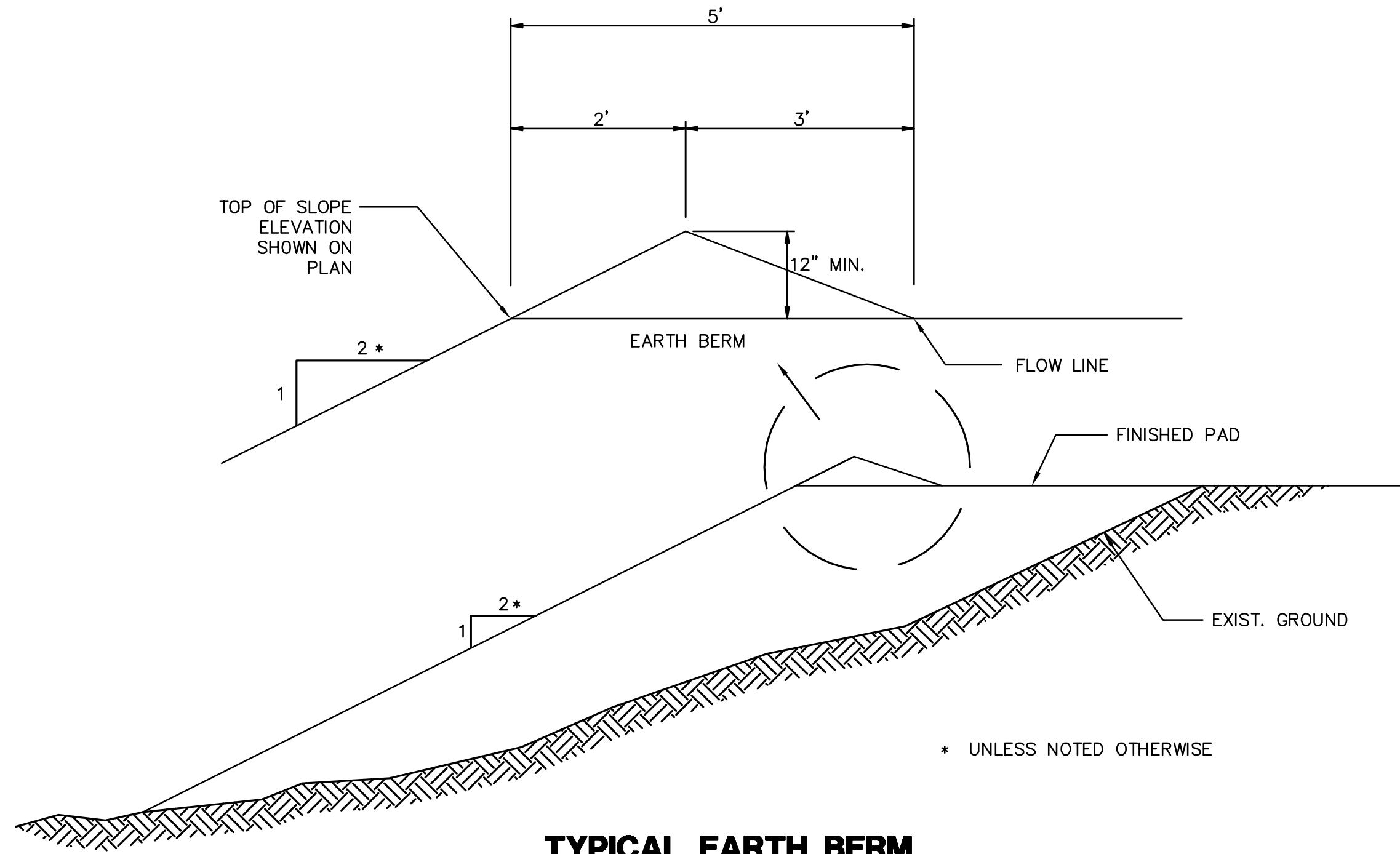


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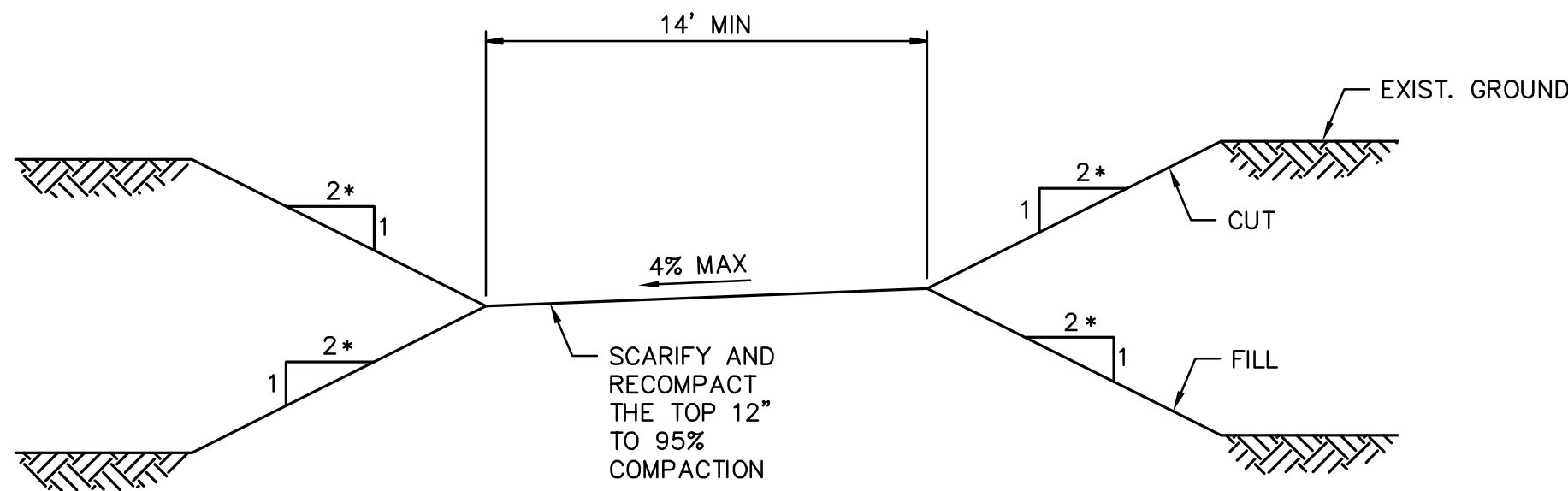
SPL-08D (LINK 2)
LEGEND & GENERAL NOTES

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CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1=1			

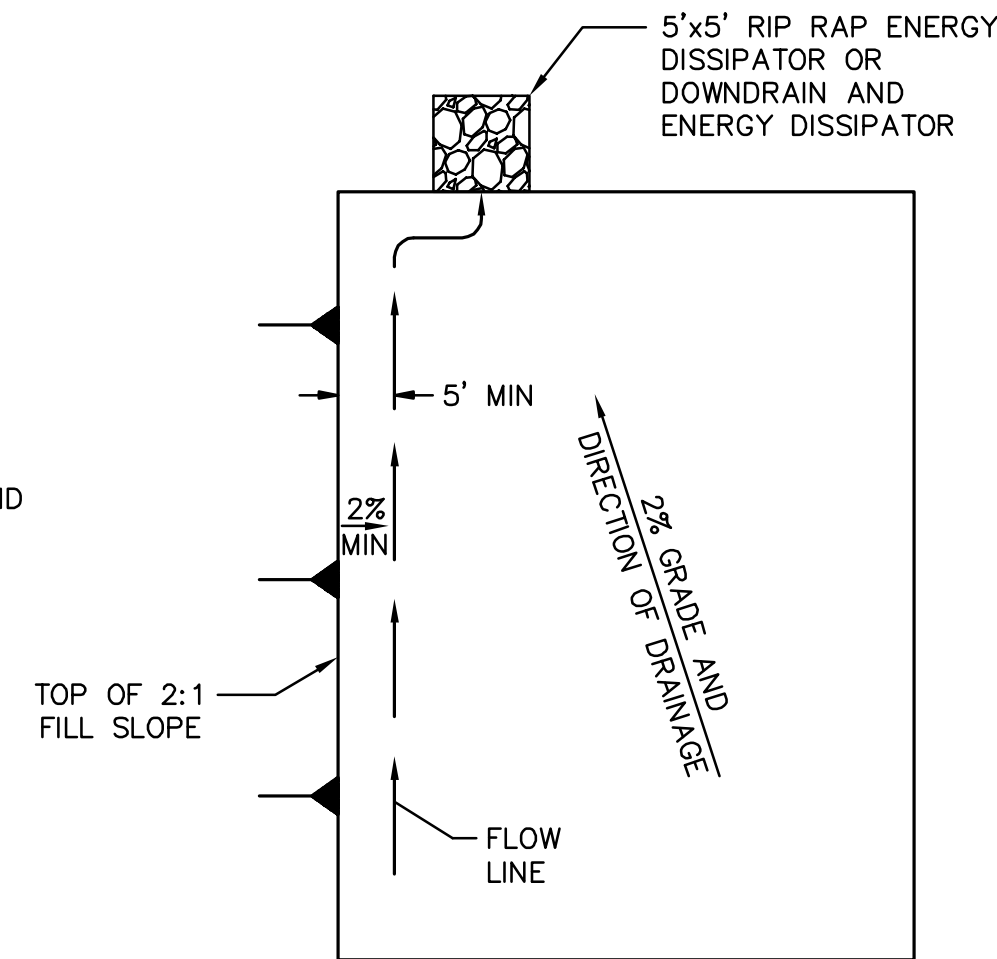
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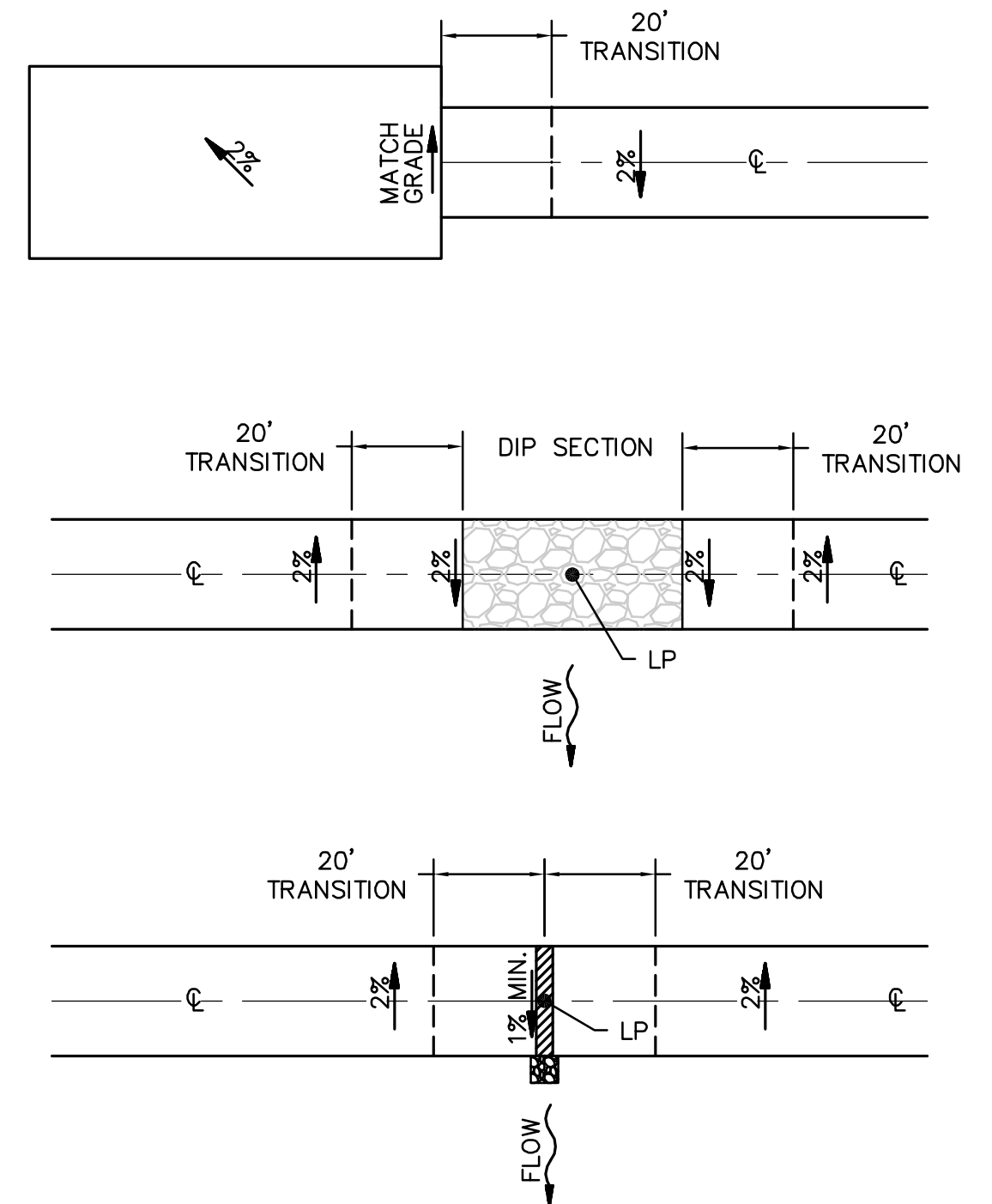
TYPICAL EARTH BERM
NTS
TO BE PLACED ON TOP OF ALL FILL SLOPES.



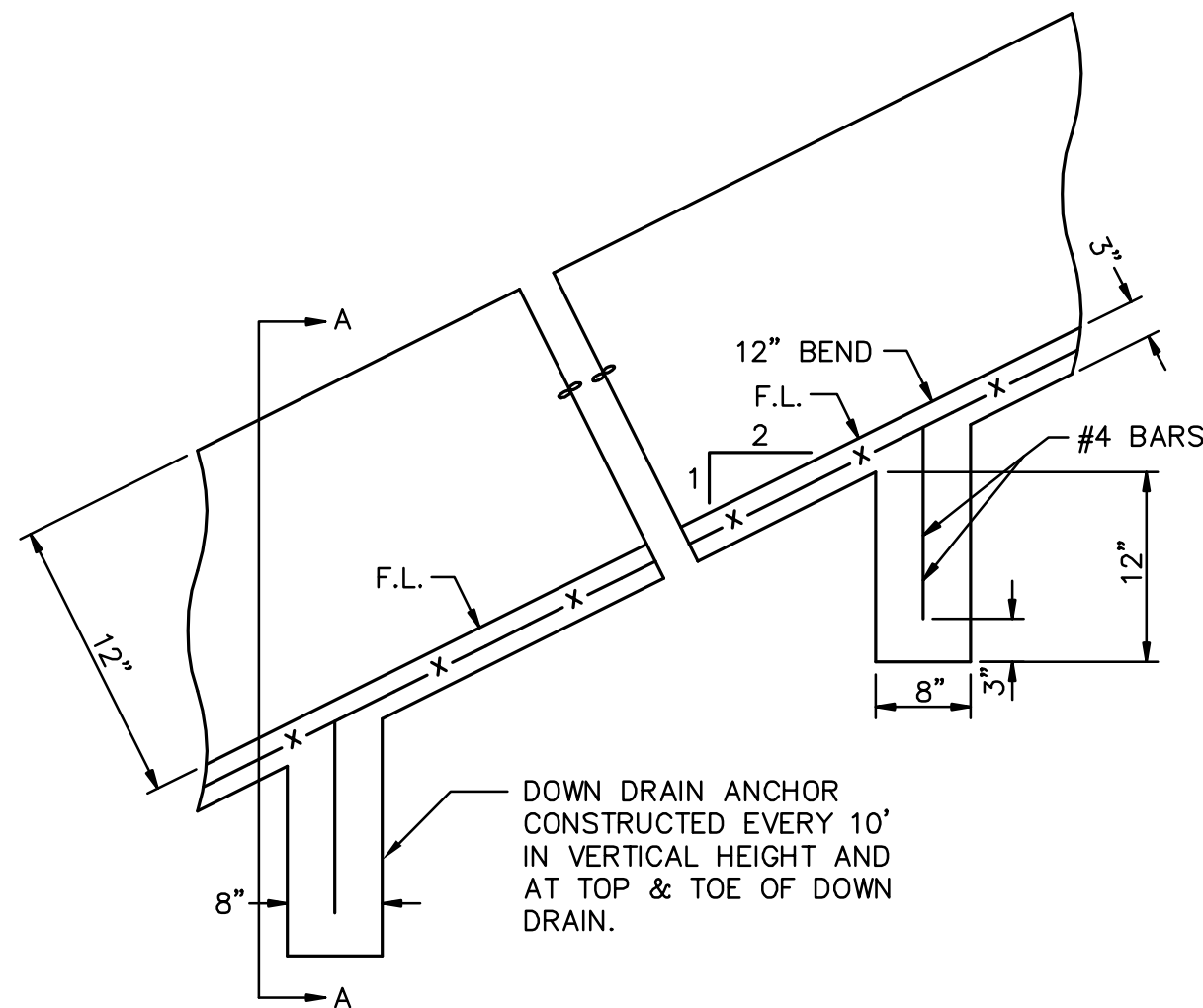
TYPICAL NEW ACCESS ROAD SECTION
NTS



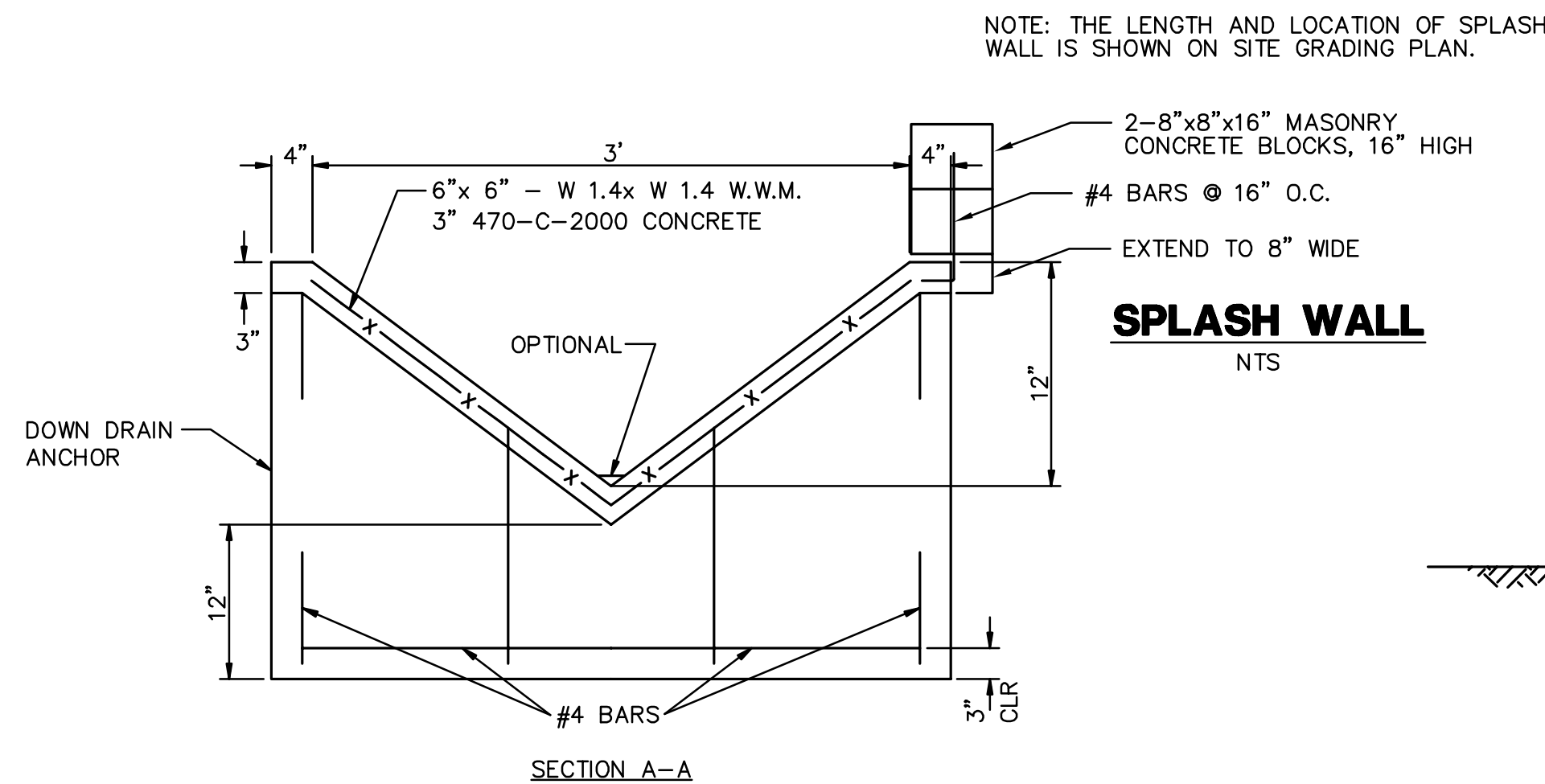
TYPICAL PAD DRAINAGE LAYOUT
NTS



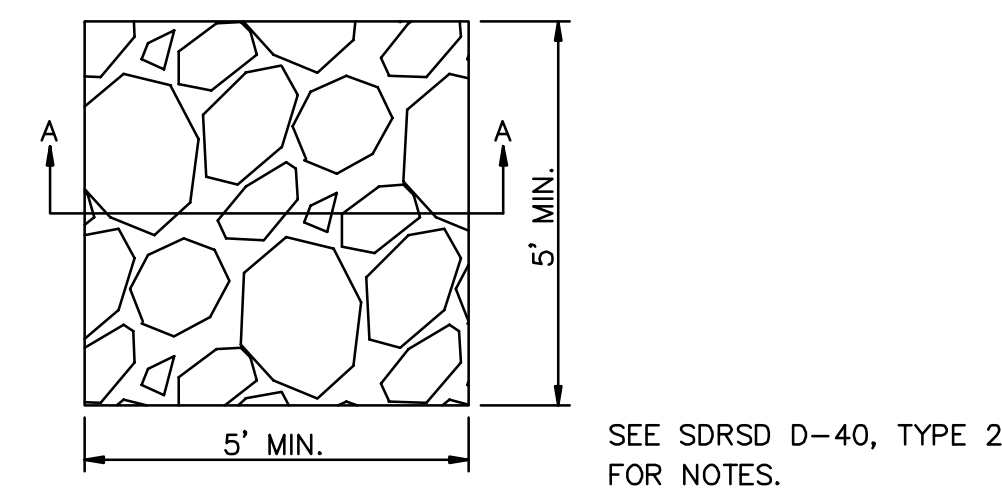
TYPICAL GRADE TRANSITIONS
NTS



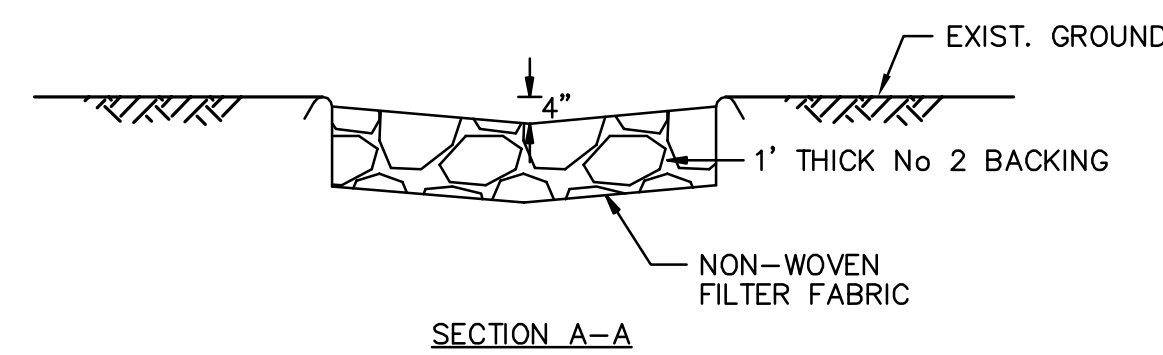
DOWN DRAIN
NTS



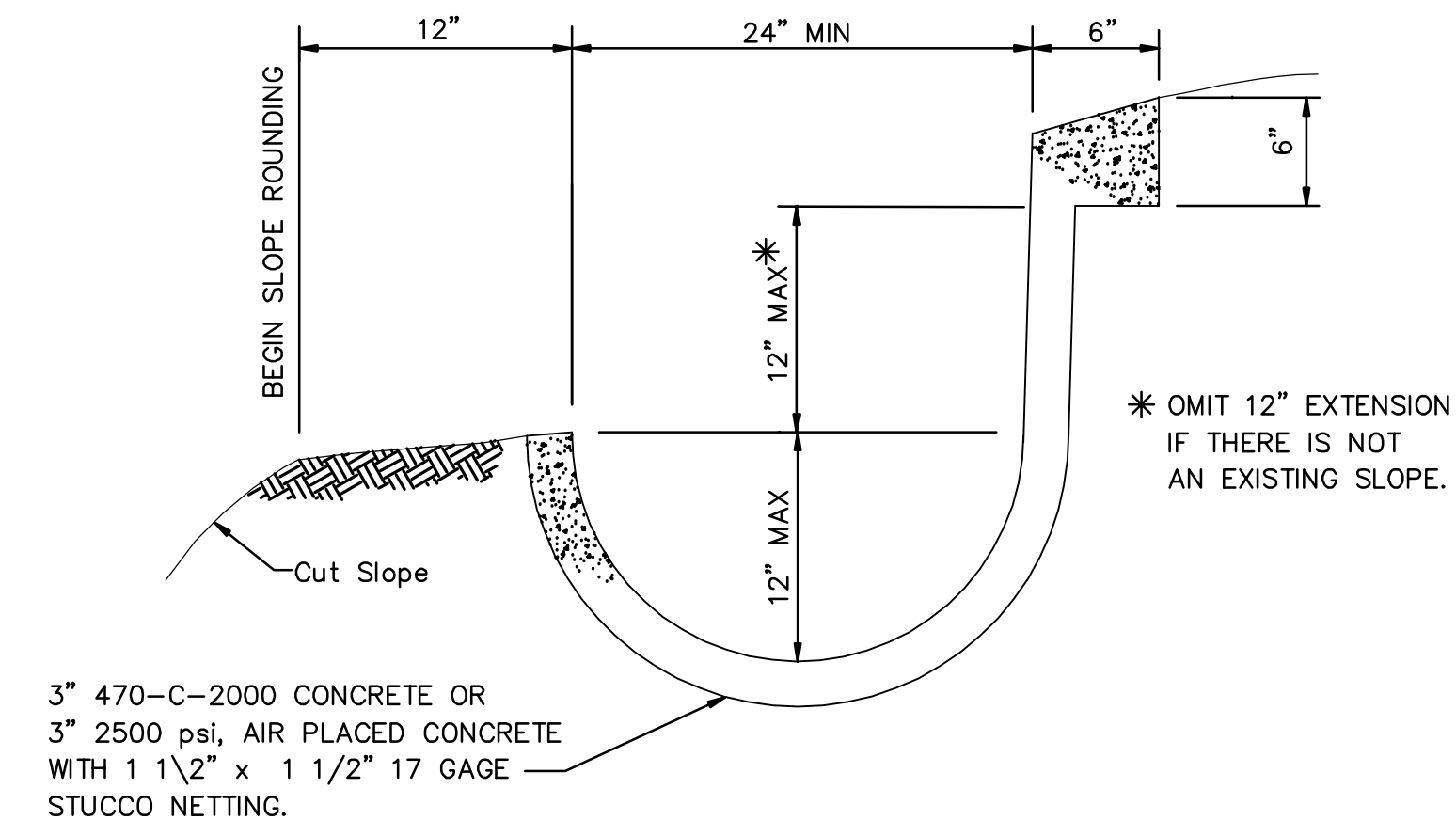
SPLASH WALL
NTS



RIPRAP ENERGY DISSIPATOR
NT



SECTION A-A



BROW AND/OR DRAINAGE DITCH
NTS

LONGITUDINAL SLOPE OF LINED DITCH SHALL BE 2% MINIMUM.

GENERAL DETAILS

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

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SAN DIEGO, CALIFORNIA

SPL-08D (LINK 2)
DETAIL SHEET 1 OF 2

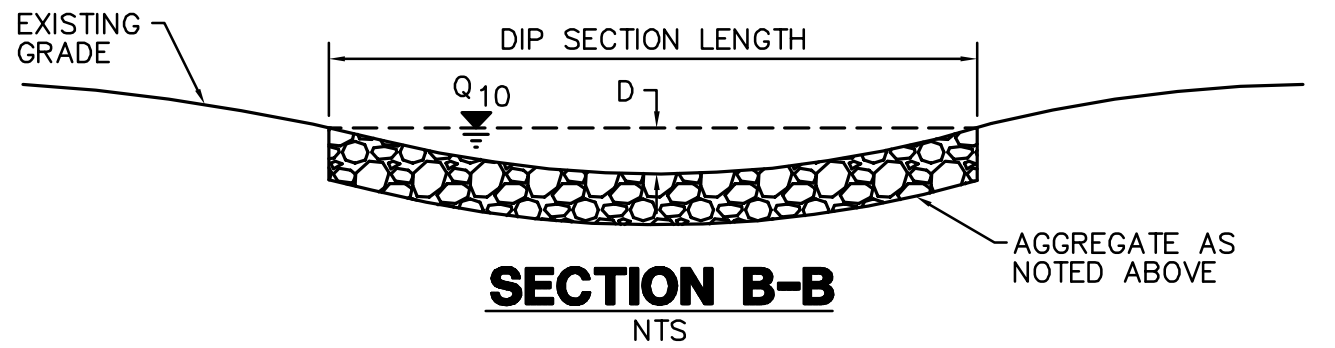
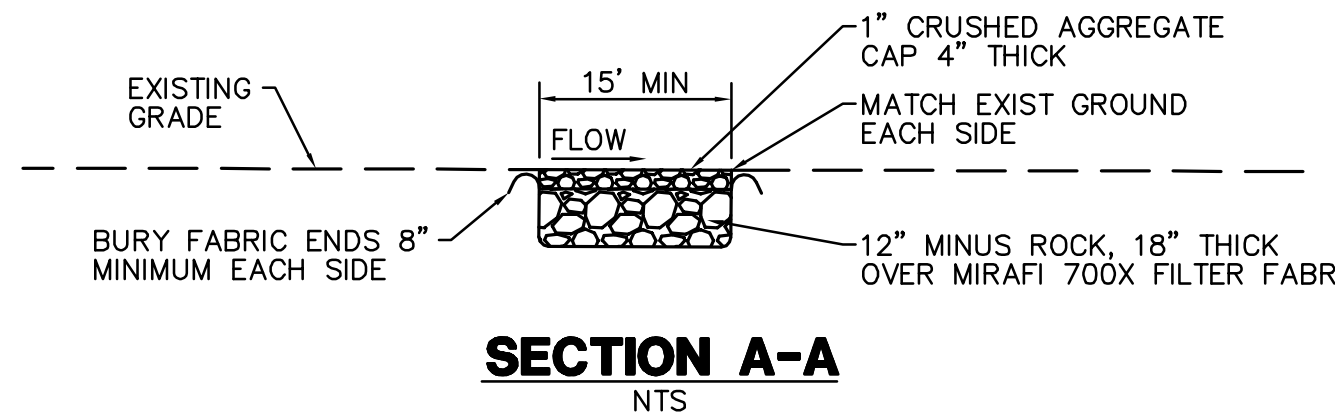
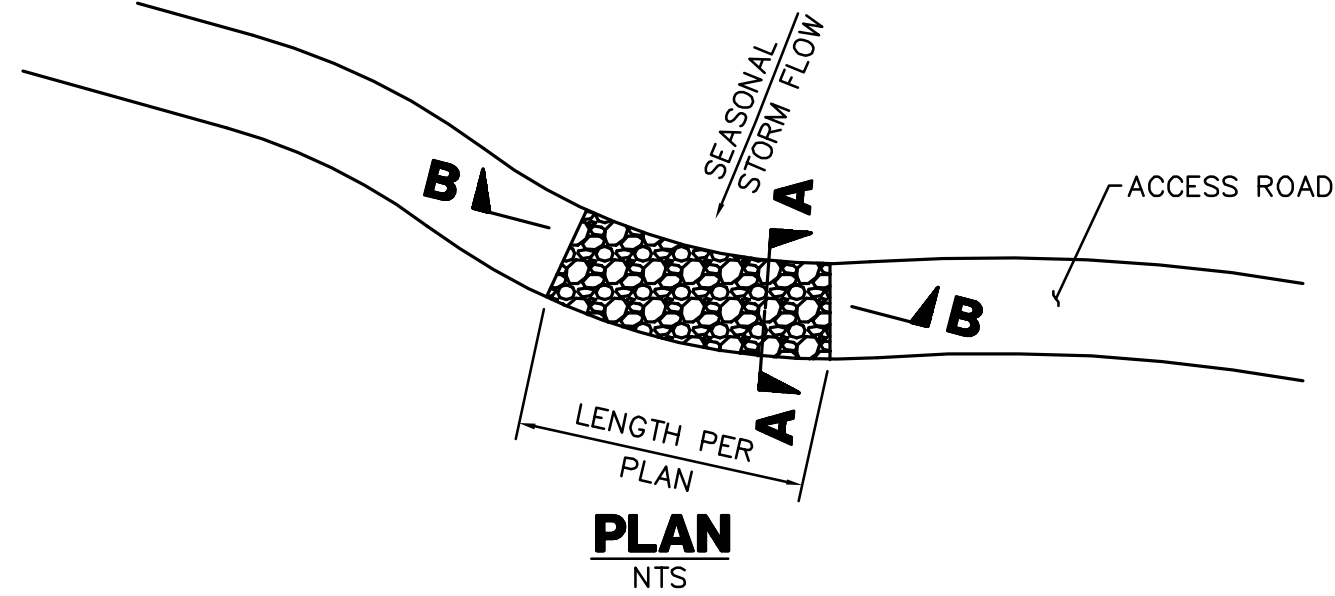
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SPL-08D-003



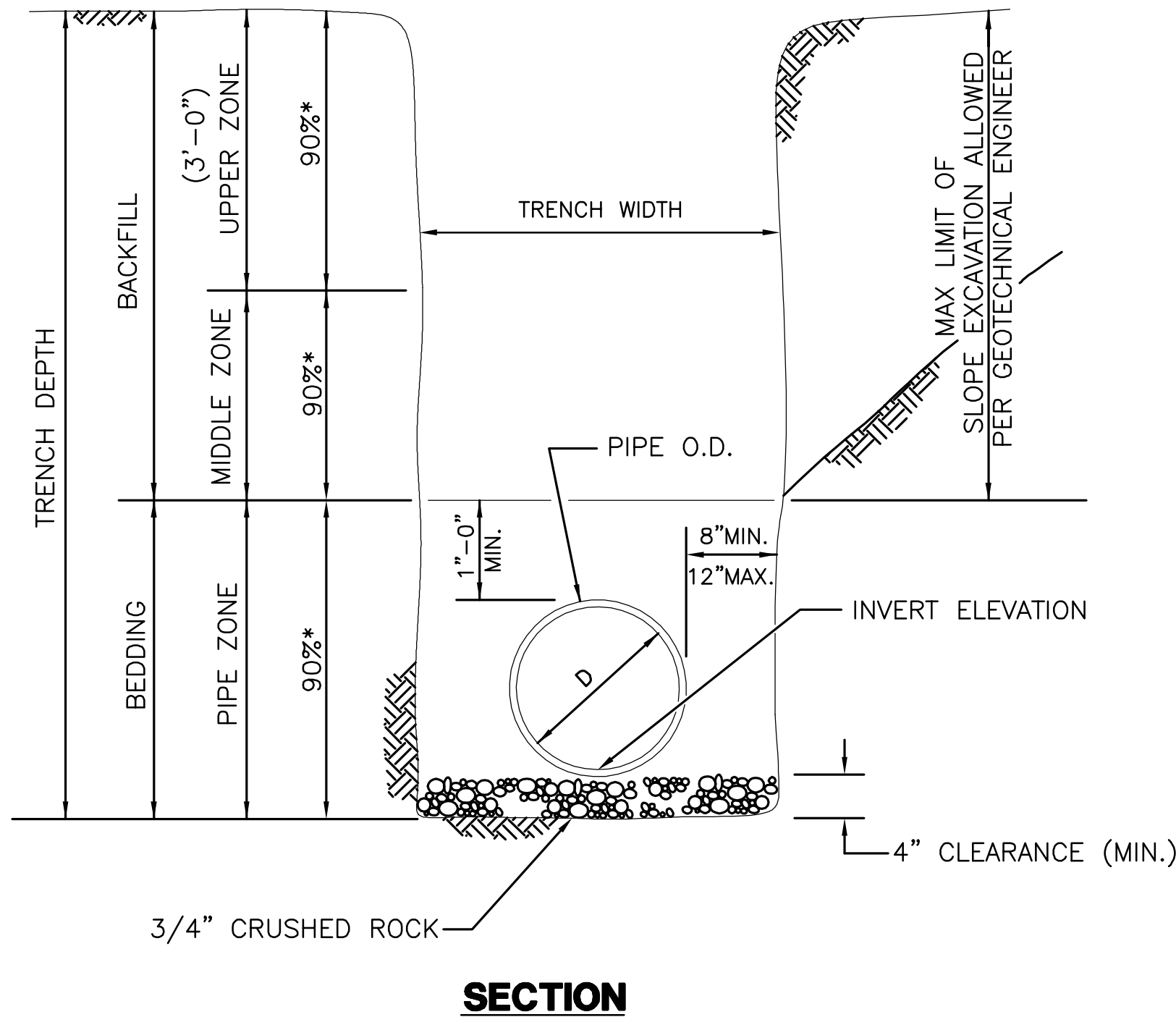
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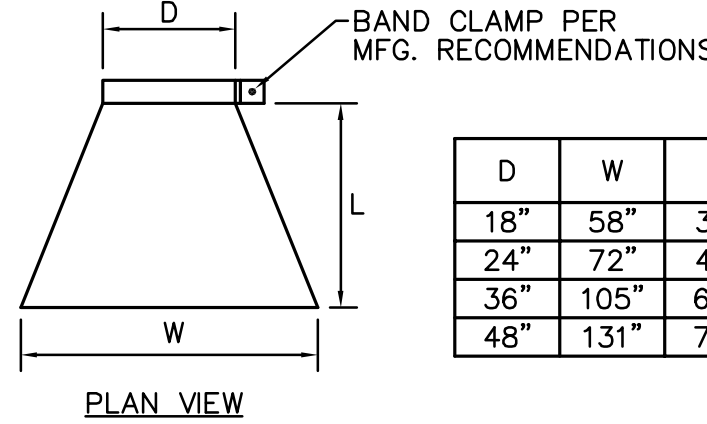
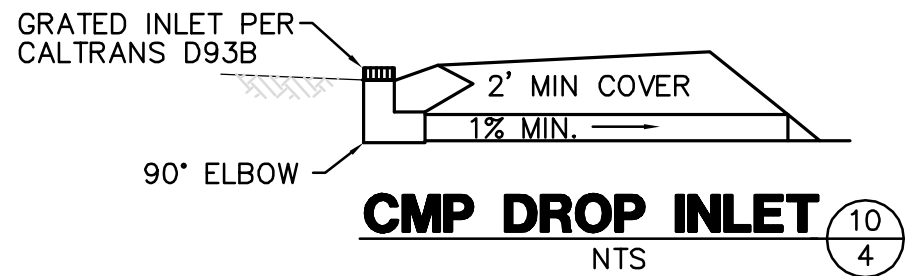
1. THE MAXIMUM WATER DEPTH, BASED ON A 10 YEAR FREQUENCY STORM, SHALL BE 10". THE DEPTH (D) IN FEET MULTIPLIED BY THE VELOCITY (V) IN FEET PER SECOND SHALL BE EQUAL TO SIX OR LESS. (DXV=6)
2. EXCAVATION AND DISPOSAL OF EXISTING MATERIALS IS TO BE INCLUDED IN CONSTRUCTION OF THE DIP SECTION.

DIP SECTION

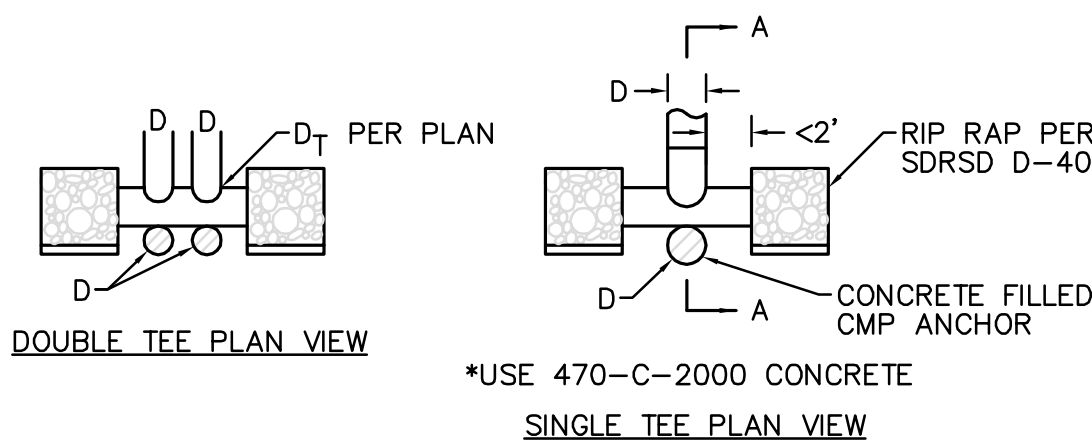
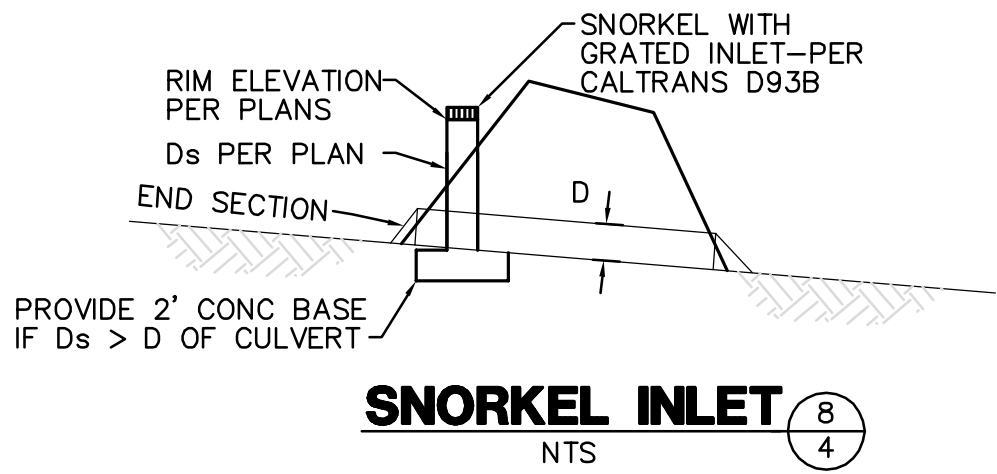


* INDICATE MINIMUM RELATIVE COMPACTION

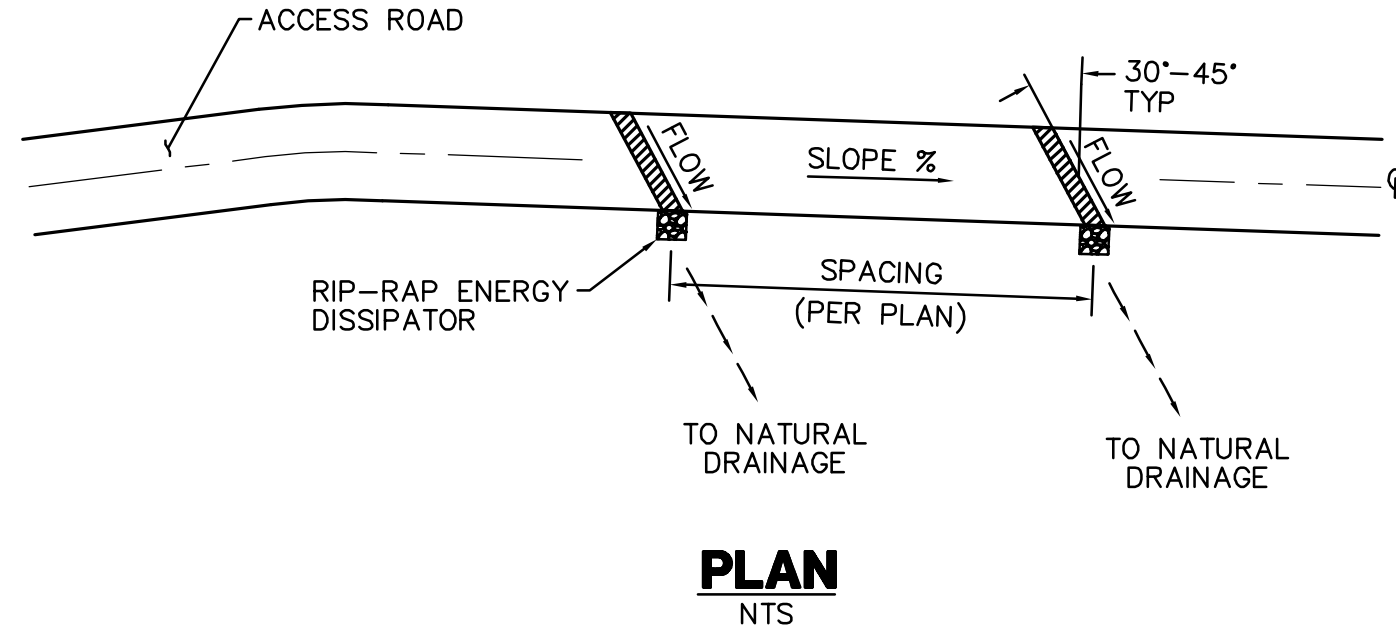
PIPE BEDDING AND TRENCH BACKFILL FOR STORM DRAINS



CULVERT END SECTION INLET AND/OR OUTLET

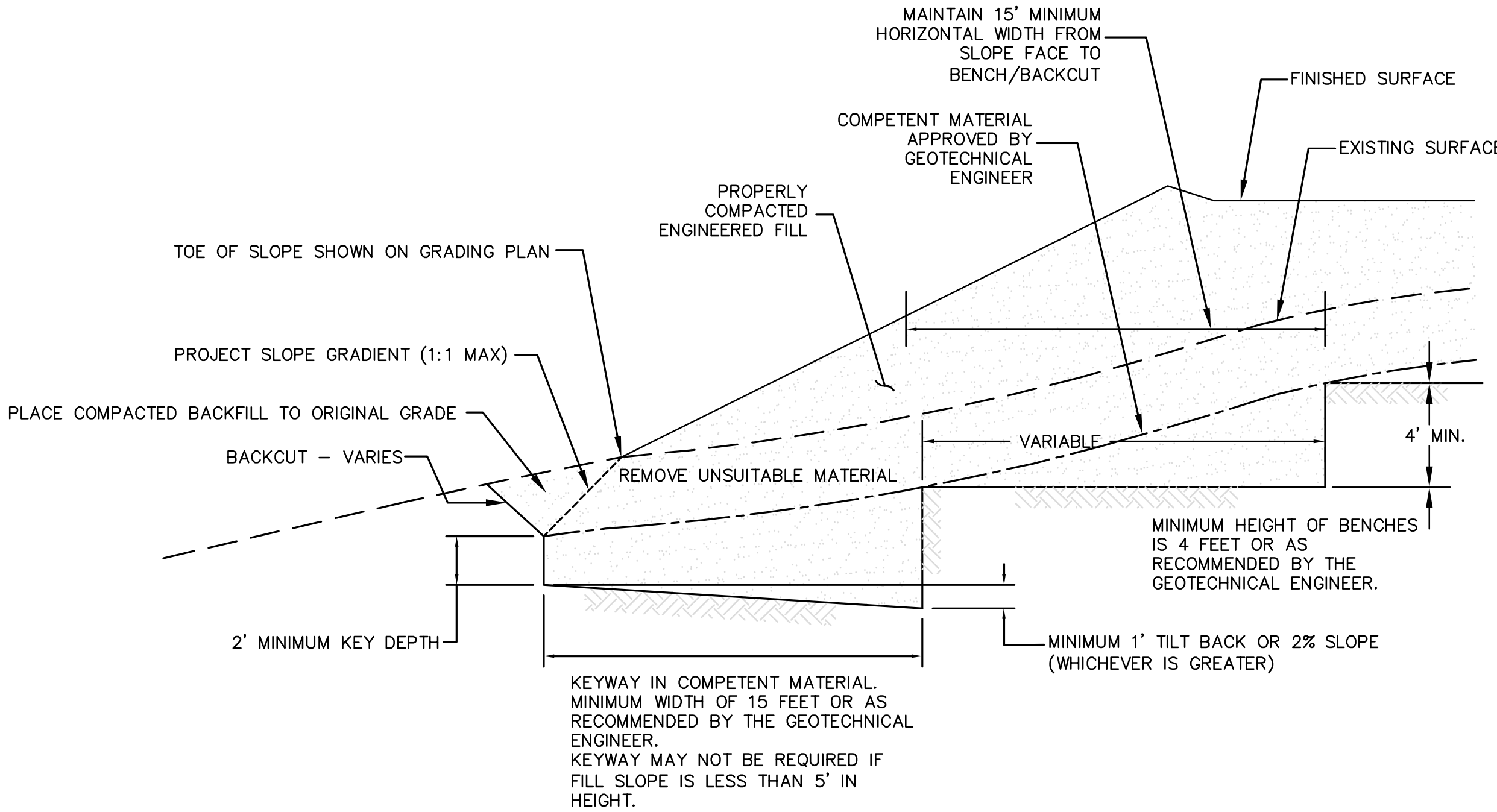


TEE OUTLET



TYPICAL SECTION

WATER BAR



NOTES:
BENCHING SHALL BE REQUIRED WHEN NATURAL SLOPES ARE EQUAL TO OR STEEPER THAN 5:1 OR WHEN RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

WHERE THE NATURAL SLOPE APPROACHES OR EXCEEDS THE DESIGN SLOPE RATIO, SPECIAL RECOMMENDATIONS WILL BE PROVIDED BY THE GEOTECHNICAL ENGINEER

FILL SLOPE BENCHING



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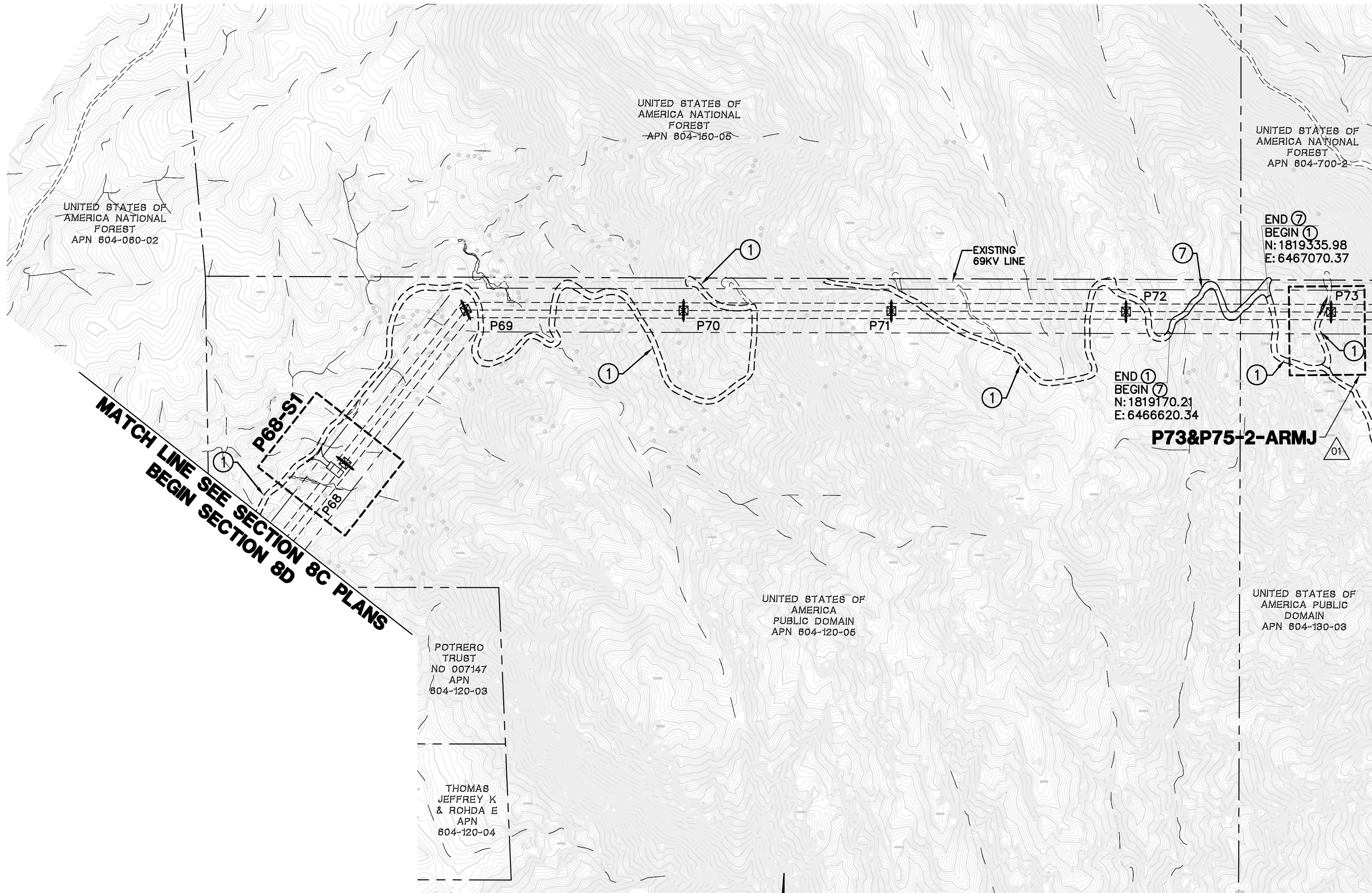
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SPL-08D (LINK 2)
DETAIL SHEET 2 OF 2

DRAWN BY: 00	DATE:	SCALE: NONE	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO:	PLOT SCALE: 1 = 1			

SPL-08D-004



QUANTITIES:

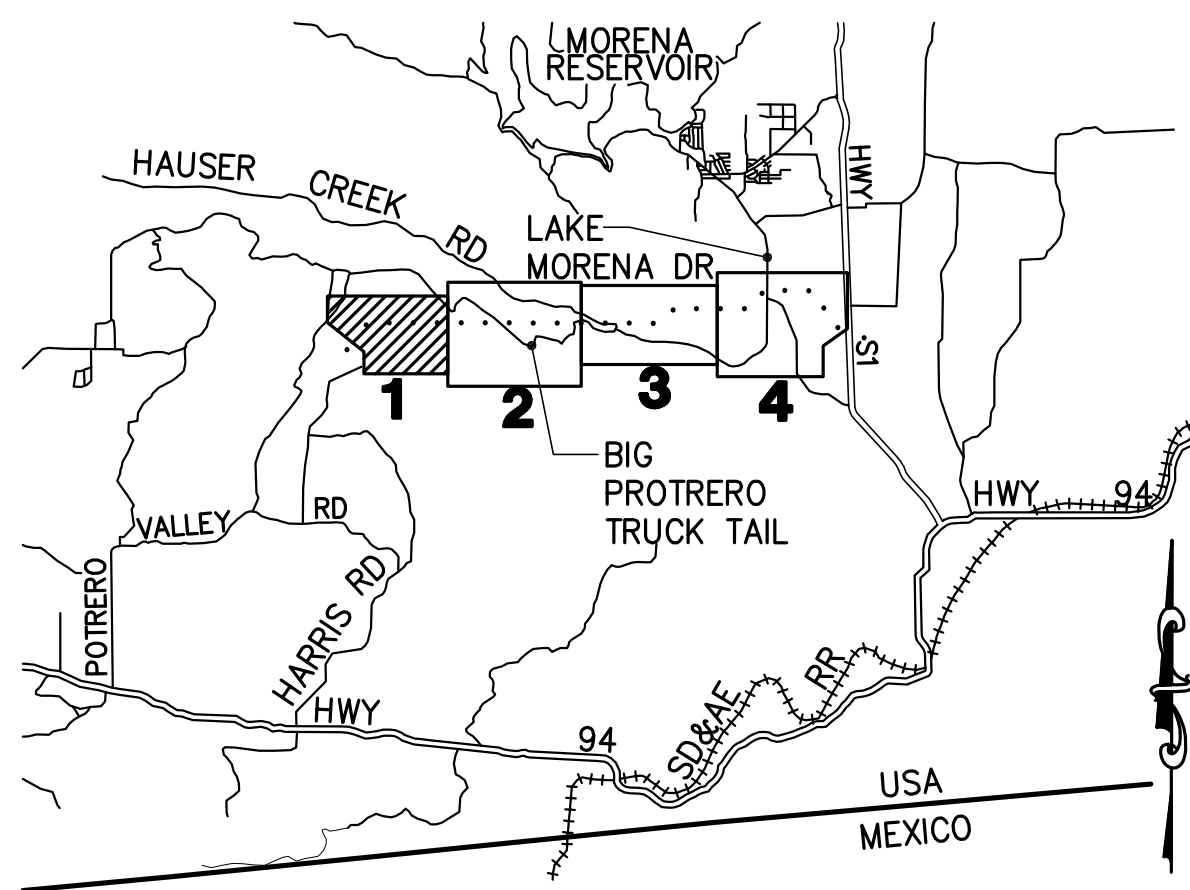
- ① LENGTH OF ACCESS ROAD: 7,922 LF
⑦ LENGTH OF ACCESS ROAD: 702 LF

LEGEND

- P218-1-S1**
- AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX)
- MINOR ROAD MAINTENANCE - SEE PLAN AND CONSTRUCTION NOTES HEREON
- MINOR ROAD IMPROVEMENTS - SEE PLAN AND CONSTRUCTION NOTES HEREON
- MAJOR ROAD IMPROVEMENTS - SEE SHEET AS INDICATED
- SITE IMPROVEMENTS - SEE SHEET AS INDICATED
- PULL SITE IMPROVEMENTS - SEE SHEET AS INDICATED
- CONSTRUCTION YARD IMPROVEMENTS - SEE CONSTRUCTION YARD PLANS
- PROPOSED TRANSMISSION LINES
- PROPOSED LATTICE TOWER AND TOWER #
- PROPOSED TOWER STAGING ACCESS PAD
- EXISTING 10' CONTOURS
- EXISTING 2' CONTOURS

CONSTRUCTION NOTES

- ① GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.
- ⑦ GRADE CROSS SECTION OF EXISTING ROAD TO BE UNIFORM BY REMOVING HIGH POINTS AND FILLING LOW POINTS. REMOVE ROCKS AS NECESSARY; SOME RIPPING MAY BE REQUIRED.



SECTION 8D
LOCATION MAP

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:
01	ADD SHEET REFERENCE P73 & P75-2-ARMJ	8/24/10	MM	MB										

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SPL-08D (LINK 2)

KEY MAP & MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: DZ	DATE:	SCALE: 1" = 300'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

08D-P68-P73-KEY01

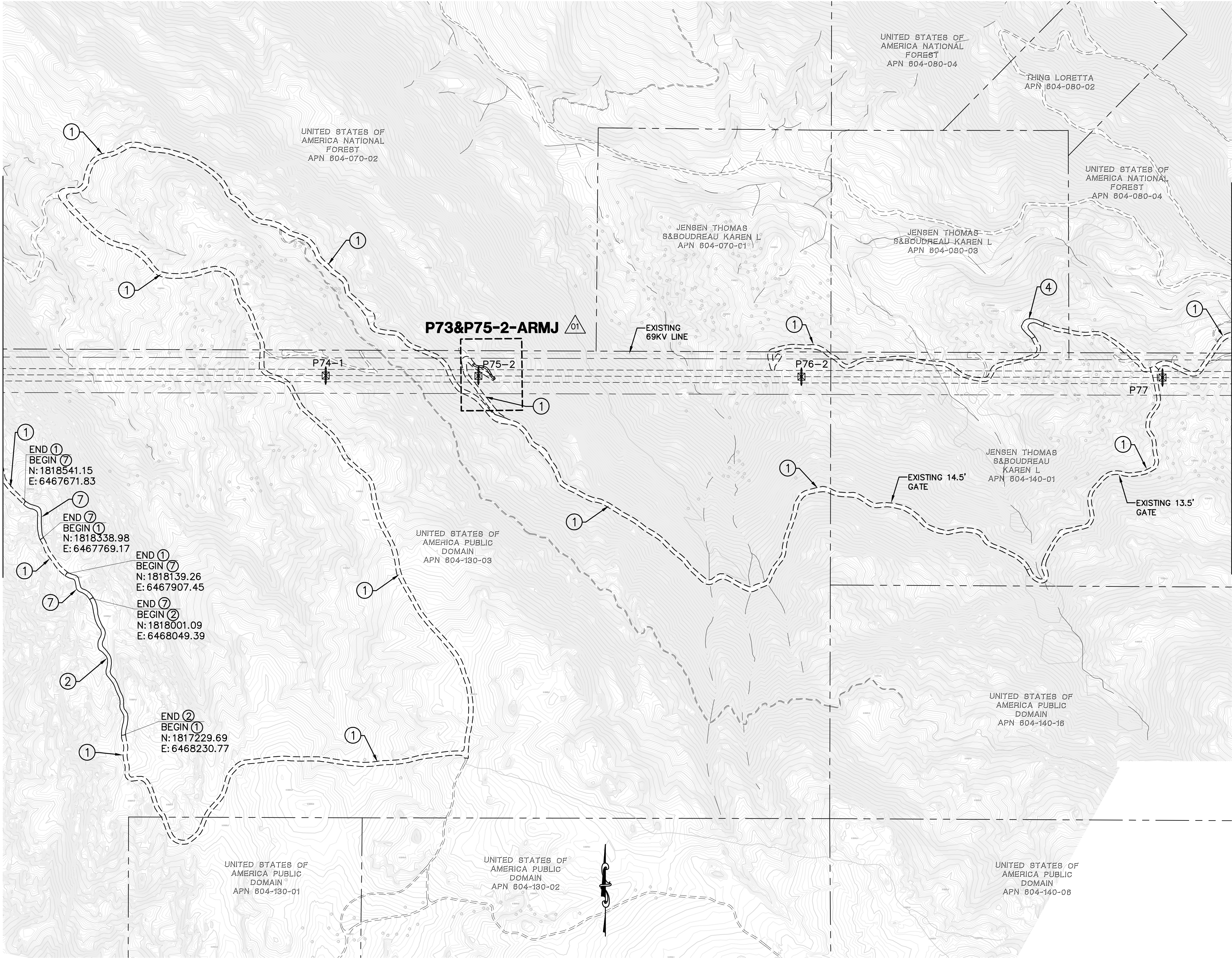


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MATCH LINE SEE SHEET 08D-P68-P73-KEY-01

MATCH LINE SEE SHEET 08D-P78-P81-KEY03

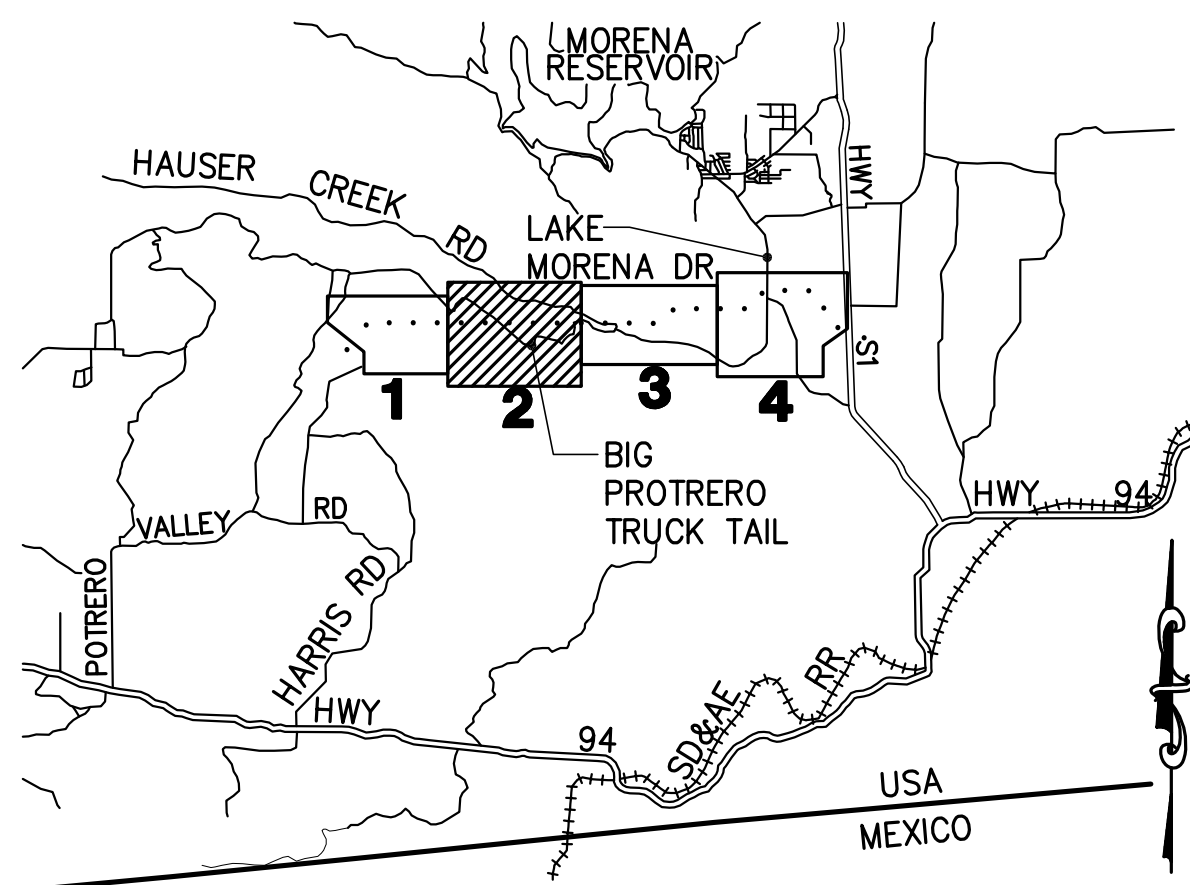


LEGEND

- P218-1-S1**
- MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
 - MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
 - MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
 - SITE IMPROVEMENTS – SEE SHEET AS INDICATED
 - PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
 - CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
 - PROPOSED TRANSMISSION LINES
 - PROPOSED LATTICE TOWER AND TOWER #
 - PROPOSED TOWER STAGING ACCESS PAD
 - EXISTING 10' CONTOURS
 - EXISTING 2' CONTOURS

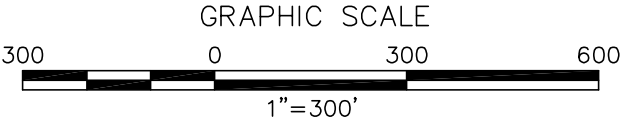
CONSTRUCTION NOTES

- GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.
- IN ADDITION TO CONSTRUCTION NOTE #1, WIDEN ROAD TO 12' MINIMUM WIDTH, MAXIMUM CROSS SLOPE = 8%. CLEAR AND GRUB EXISTING BRUSH AS NECESSARY. ALL OTHER REQUIREMENTS FROM NOTE #1 SHALL APPLY.
- REGRADE CURVE(S) TO A MINIMUM 50' RADIUS AND 20' WIDTH.
- GRADE CROSS SECTION OF EXISTING ROAD TO BE UNIFORM BY REMOVING HIGH POINTS AND FILLING LOW POINTS. REMOVE ROCKS AS NECESSARY; SOME RIPPING MAY BE REQUIRED.



SECTION 8D
LOCATION MAP

- QUANTITIES:
- 1 LENGTH OF ACCESS ROAD: 20,013 LF
 - 2 LENGTH OF ACCESS ROAD: 838 LF
 - 7 LENGTH OF ACCESS ROAD: 467 LF



REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:
01	ADD SHEET REFERENCE P73 & P75-2-ARMJ	8/24/10	MM	MB										

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SPL-08D (LINK 2)

KEY MAP & MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: DZ	DATE:	SCALE: 1" = 300'	W.O.:	REV. 0
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APPROVED BY:	DATE:			
CAD NO.:		PLLOT SCALE: 1 = 1		

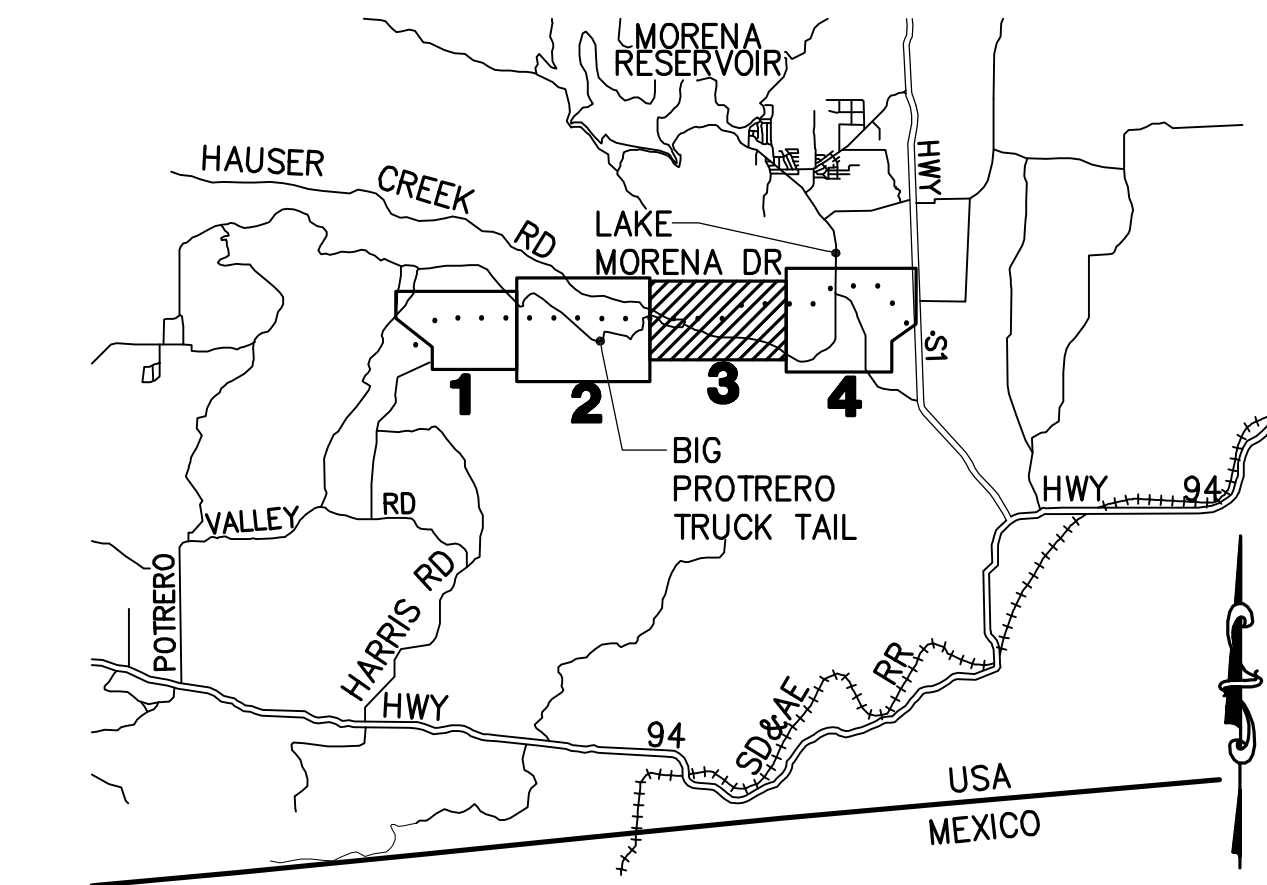
08D-P74-1-P77-KEY02



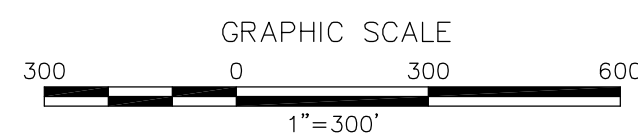
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MATCH LINE SEE SHEET 08D-P82-P88-2-KEY04



① LENGTH OF ACCESS ROAD: 8,438 LF
② LENGTH OF ACCESS ROAD: 936 LF



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SAN DIEGO, CALIFORNIA

KEY MAP & MINOR ACCESS ROAD IMPROVEMENTS

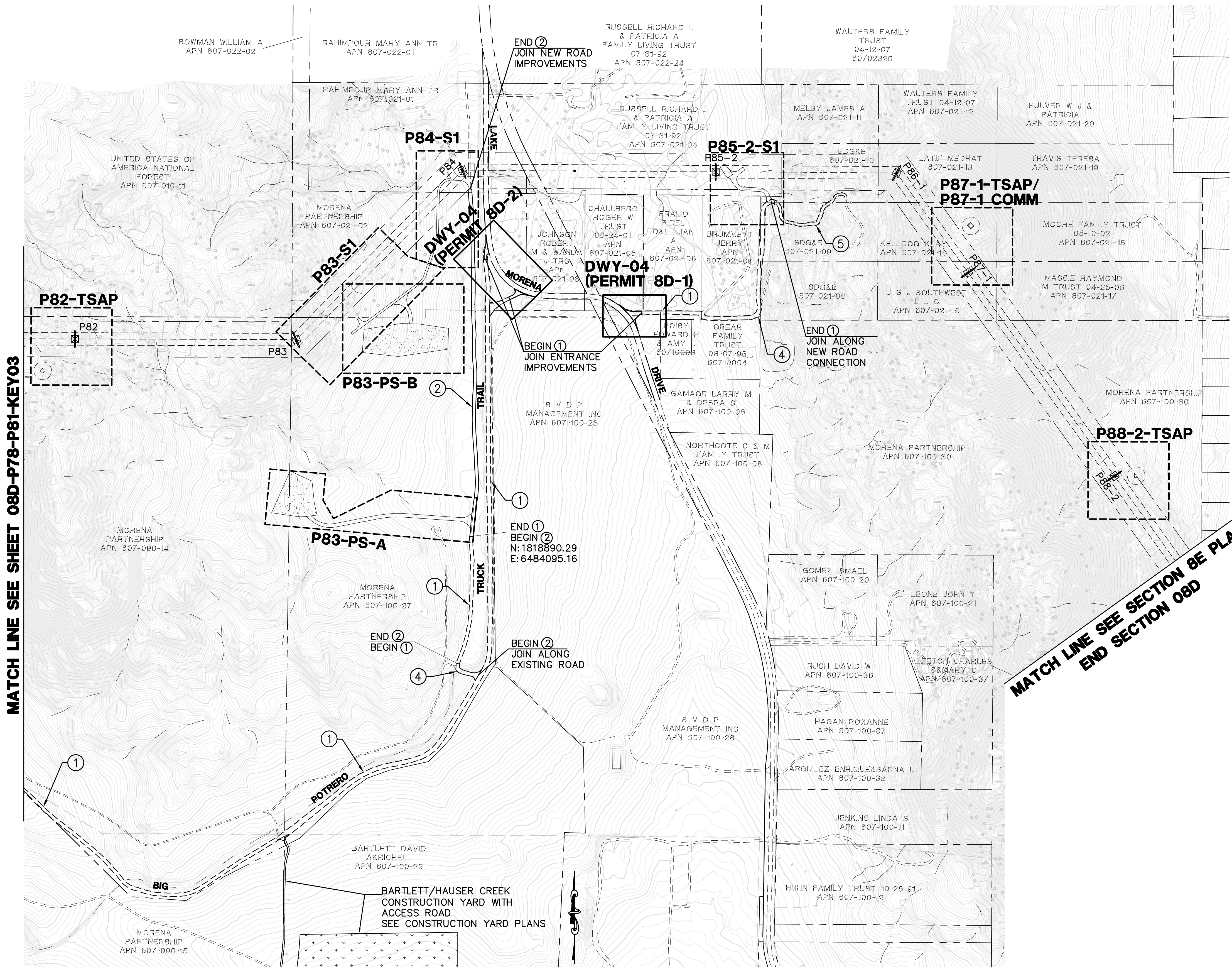
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CHECKED BY:	DATE:		08D-P78-P81-KEY03	
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			



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MATCH LINE SEE SHEET 08D-P78-P81-KEY03

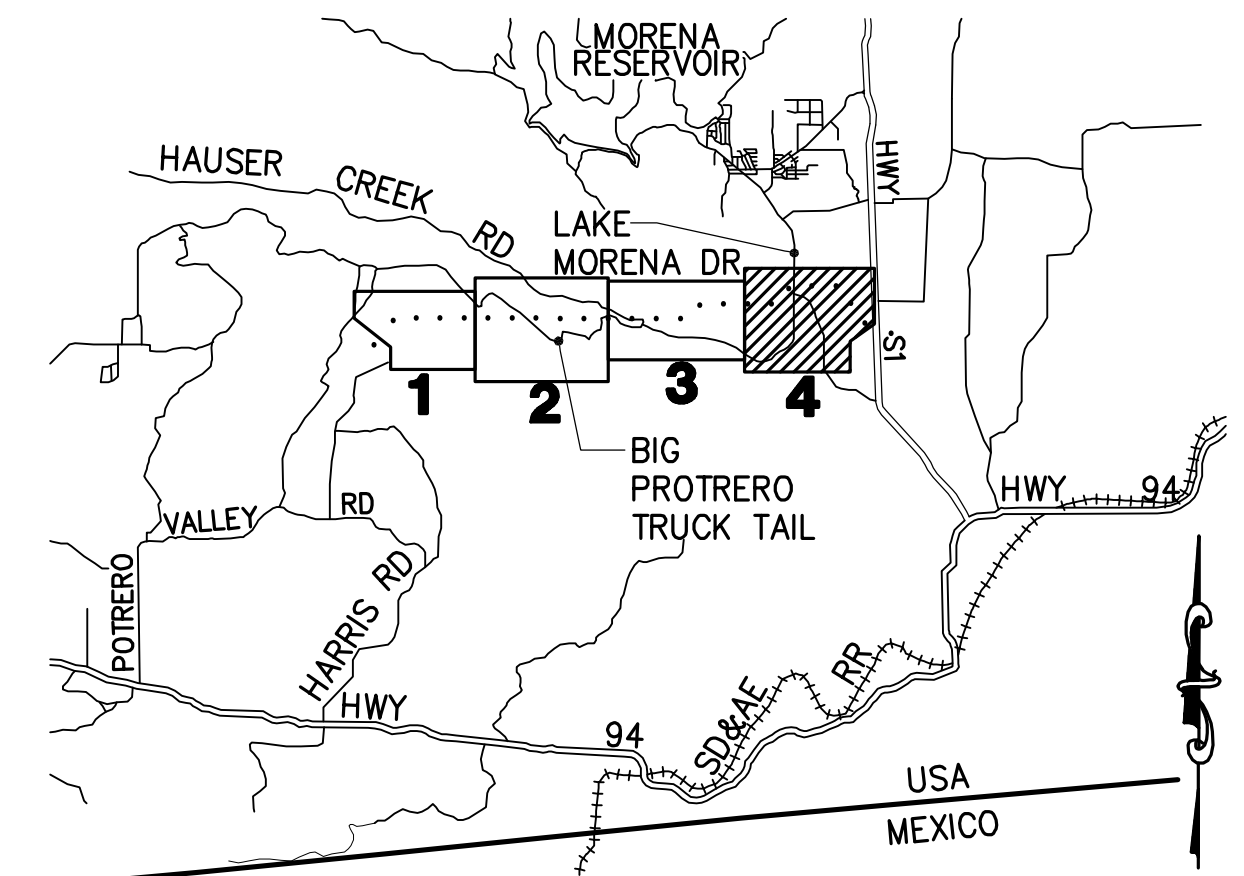


- QUANTITIES:**
- ① LENGTH OF ACCESS ROAD: 7,790 LF
 - ② LENGTH OF ACCESS ROAD: 2,108 LF
 - ⑤ LENGTH OF ACCESS ROAD: 570 LF

- LEGEND**
- P218-1-S1**
 - MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
 - MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
 - MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
 - SITE IMPROVEMENTS – SEE SHEET AS INDICATED
 - PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
 - CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
 - PROPOSED TRANSMISSION LINES
 - PROPOSED LATTICE TOWER AND TOWER #
 - PROPOSED TOWER STAGING ACCESS PAD
 - EXISTING 10' CONTOURS
 - EXISTING 2' CONTOURS

- CONSTRUCTION NOTES**
- ① GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.
 - ② IN ADDITION TO CONSTRUCTION NOTE #1, WIDEN ROAD TO 12' MINIMUM WIDTH, MAXIMUM CROSS SLOPE = 8%. CLEAR AND GRUB EXISTING BRUSH AS NECESSARY. ALL OTHER REQUIREMENTS FROM NOTE #1 SHALL APPLY.
 - ③ CONSTRUCT ENTRANCE/EXIT TO EXISTING ROADWAY BY GRADING 50' RADII FLARE OUTS TO JOIN EXISTING EDGE OF ROAD.
 - ④ REGRADE CURVE(S) TO A MINIMUM 50' RADIUS AND 20' WIDTH.
 - ⑤ EXISTING ROAD TO REMAIN AS IS.

MATCH LINE SEE SECTION 8E PLANS
END SECTION 08D



**SECTION 8D
LOCATION MAP**

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

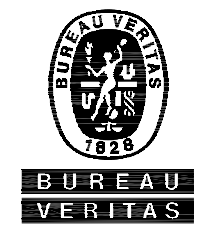
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-08D (LINK 2)

KEY MAP & MINOR ACCESS ROAD IMPROVEMENTS

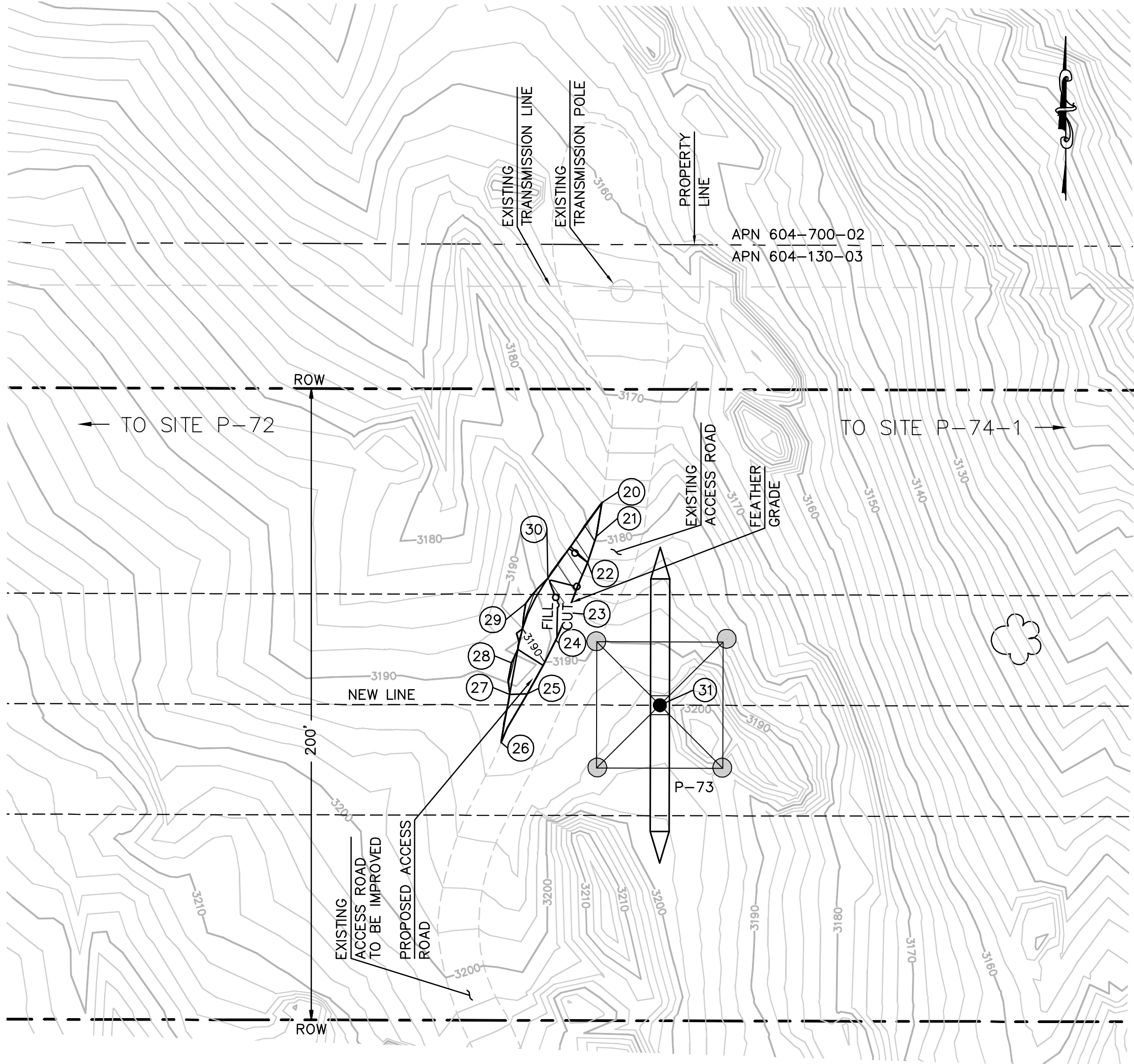
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CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1" = 1'		

08D-P82-P88-2-KEY04



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ACCESS ROAD TO TOWER P-73

HORIZ. : 1"=30'

EARTH QUANTITIES:

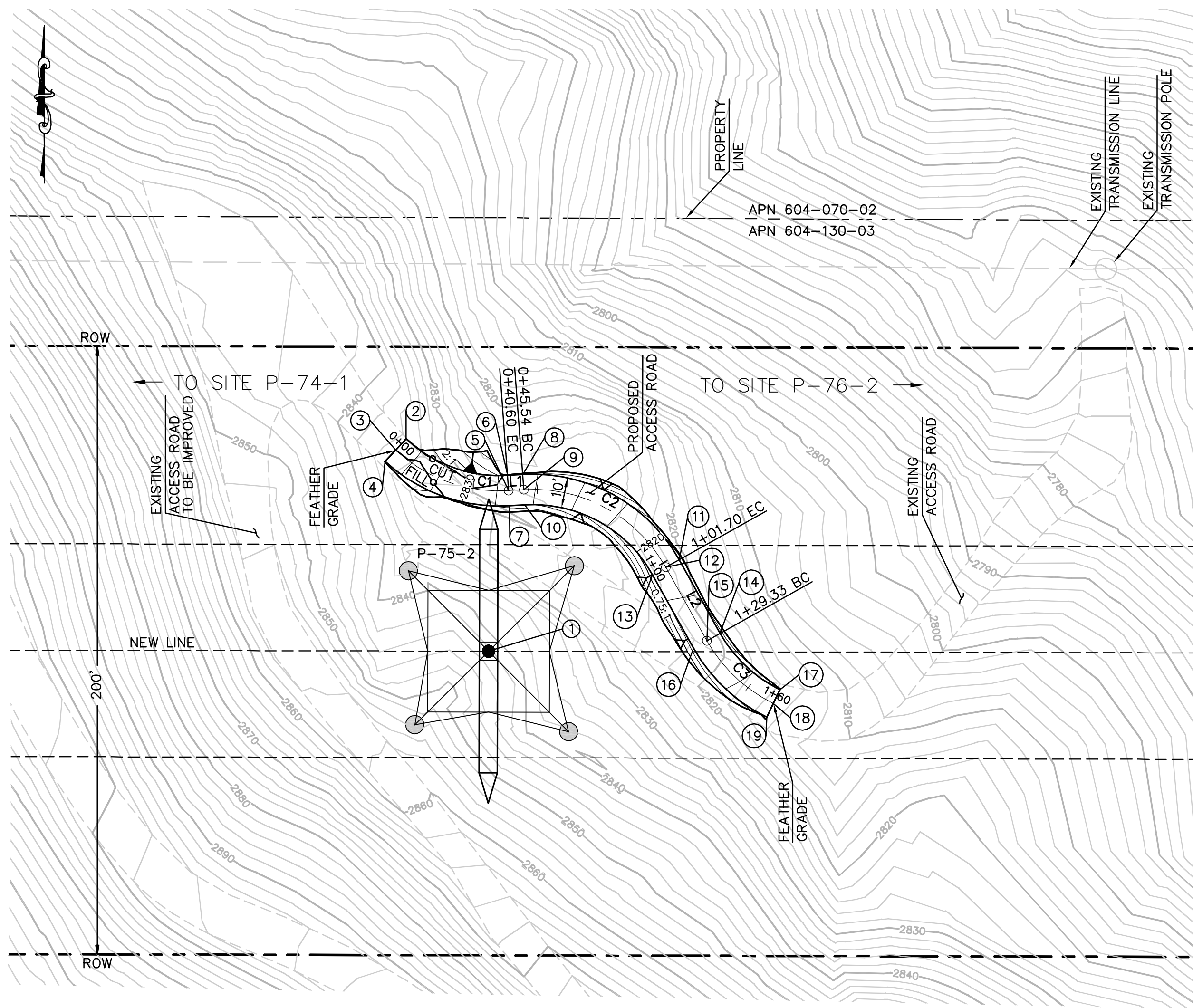
CUT: 6 CY
FILL: 1 CY
NET: 5 CY

DISTURBED AREA:

SLOPE: 597 SF
TOTAL: 597 SF

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	50.00	40.60	46°31'13"
C2	50.00	56.16	64°21'08"
C3	50.00	30.51	34°58'03"
L1		4.94	N86°27'29"E
L2		27.63	S29°11'23"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1819257.30	6470235.55	(2842.54)	P-75-2
2	1819327.08	6470208.40	(2835.61)	BC
3	1819323.43	6470205.00	(2835.35)	CL/BC
4	1819319.77	6470201.59	(2835.13)	BC
5	1819310.10	6470242.17	2827.23	CL/EC
6	1819315.09	6470241.86	2827.33	EC
7	1819305.11	6470242.48	2827.13	EC
8	1819315.40	6470246.79	2826.64	BC
9	1819310.41	6470247.10	2826.54	CL/BC
10	1819305.42	6470247.41	2826.44	BC
11	1819287.33	6470298.21	2818.78	EC
12	1819284.89	6470293.84	2818.68	CL/EC
13	1819282.45	6470289.48	2818.58	EC
14	1819263.20	6470311.68	2817.13	BC
15	1819260.77	6470307.32	2817.03	CL/BC
16	1819258.33	6470302.95	2816.93	BC
17	1819244.65	6470331.35	(2815.65)	EC
18	1819240.15	6470329.17	(2815.21)	CL/EG
19	1819235.65	6470326.99	(2814.78)	EC
20	1819328.37	6467338.53	(3177.96)	EG
21	1819317.60	6467336.71	(3179.51)	EG
22	1819309.40	6467333.97	(3182.38)	EG
23	1819293.42	6467327.53	(3188.32)	EG
24	1819284.71	6467323.86	(3189.43)	EG
25	1819267.76	6467314.91	(3190.20)	EG
26	1819252.34	6467306.57	(3191.04)	EG
27	1819267.55	6467309.30	3190.60	FG
28	1819277.53	6467309.84	3189.71	FG
29	1819296.33	6467314.36	3191.75	FG
30	1819304.35	6467321.34	3188.10	FG
31	1819264.17	6467356.85	(3195.62)	P-73-2



ACCESS ROAD TO TOWER P-75-2

HORIZ. : 1"=30'

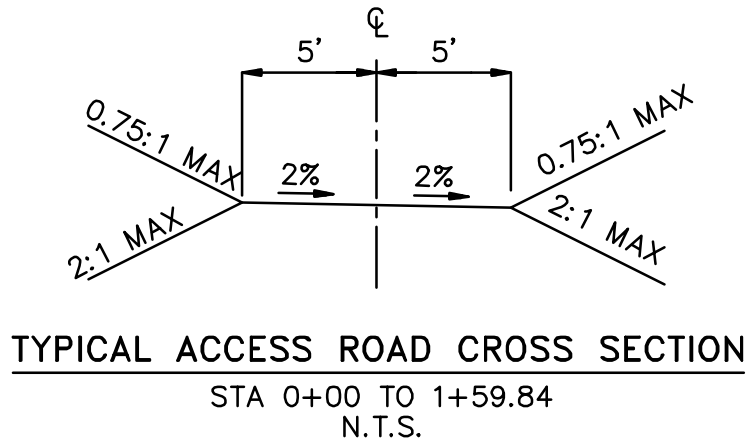
EARTH QUANTITIES:

CUT: 174 CY
FILL: 5 CY
NET: 169 CY

DISTURBED AREA:

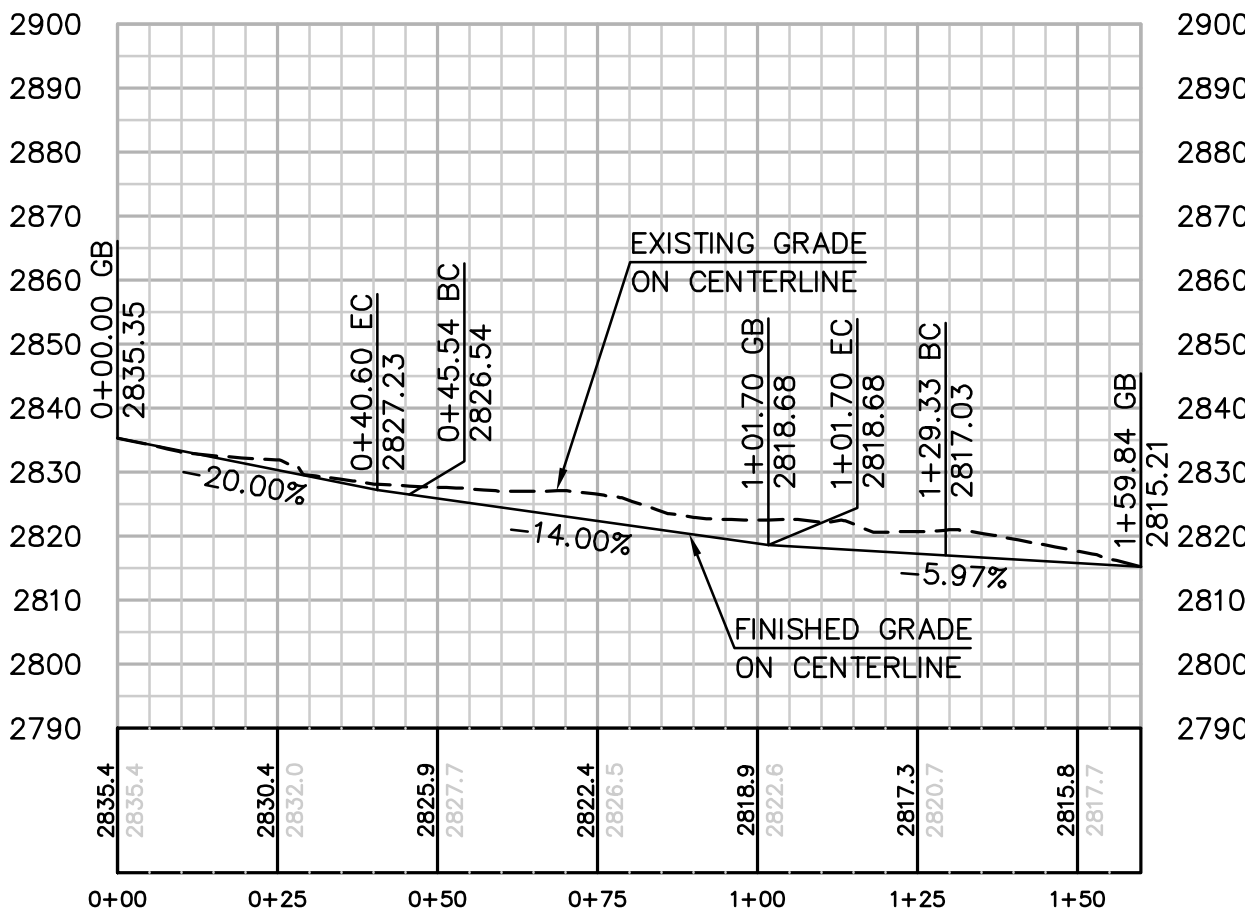
ROAD: 2,304 SF
TOTAL: 2,304 SF

LENGTH OF ACCESS ROAD: 159 LF



TYPICAL ACCESS ROAD CROSS SECTION

STA 0+00 TO 1+59.84
N.T.S.



PROFILE: ACCESS ROAD TO TOWER P-75-2

HORIZ. & VERT. SCALE: 1" = 30'

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

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08D-P73 & P75-2-ARMJ

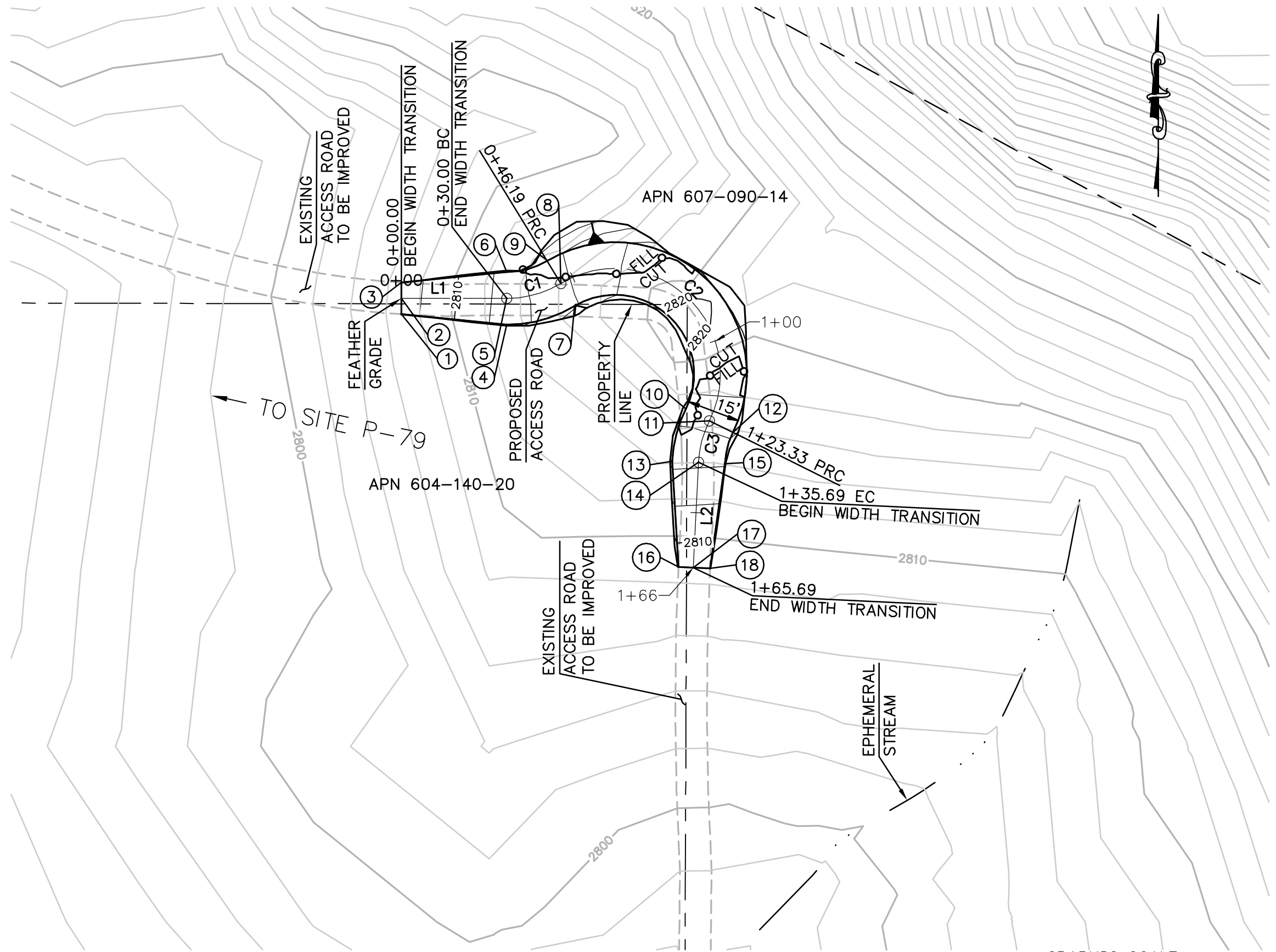
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8D-P73&P75-2-ARMJ



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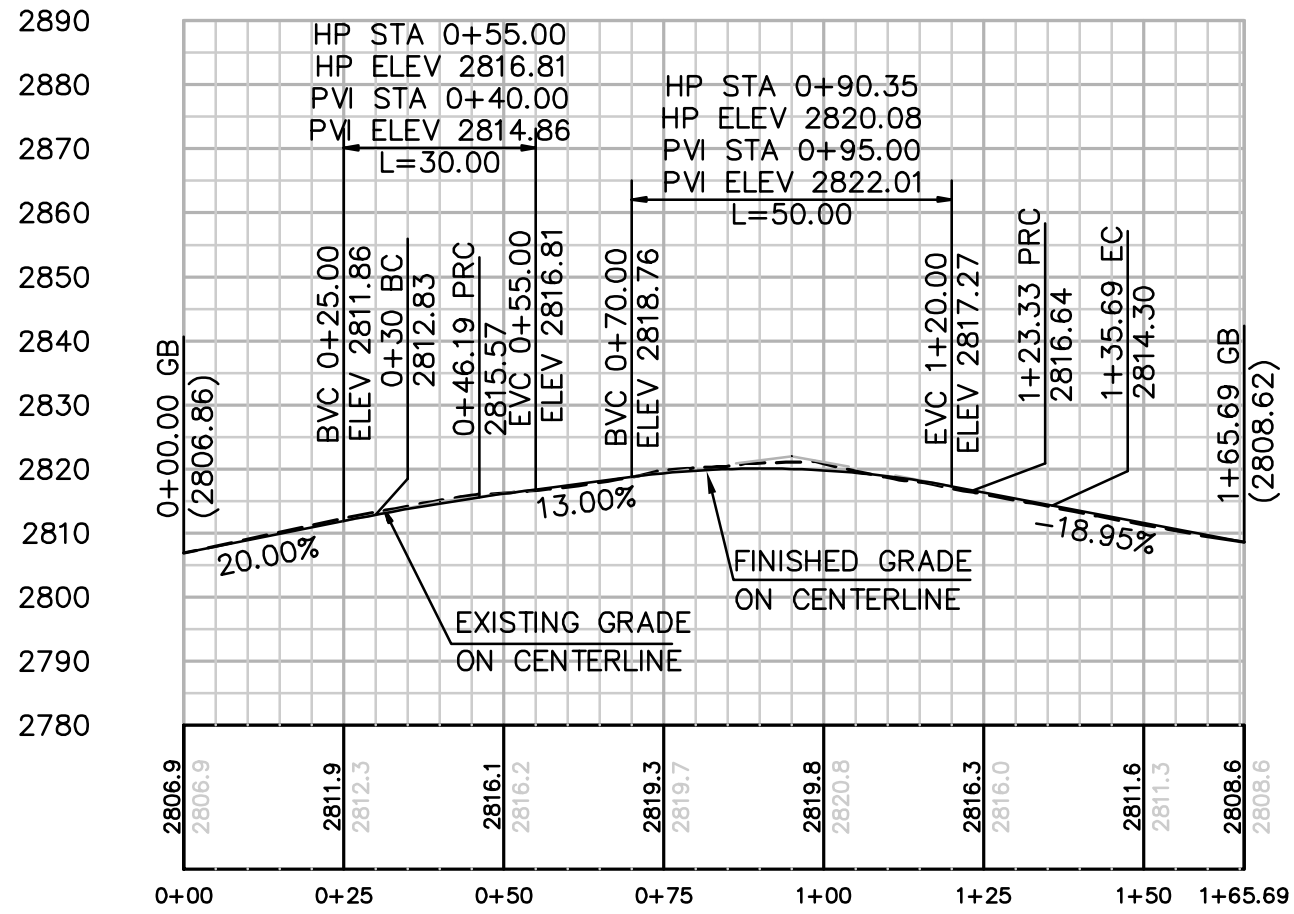
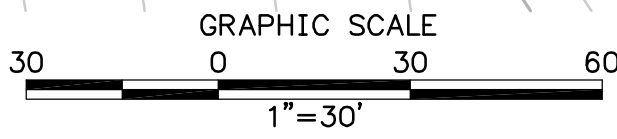
EARTH QUANTITIES:
CUT: 26 CY.
FILL: 20 CY.
NET: 6 CY.

DISTURBED AREA:
ROAD: 2,718 SF

LENGTH OF ACCESS ROAD: 165 LF

ACCESS ROAD TO TOWER P-80 PLAN

SCALE: 1" = 30'

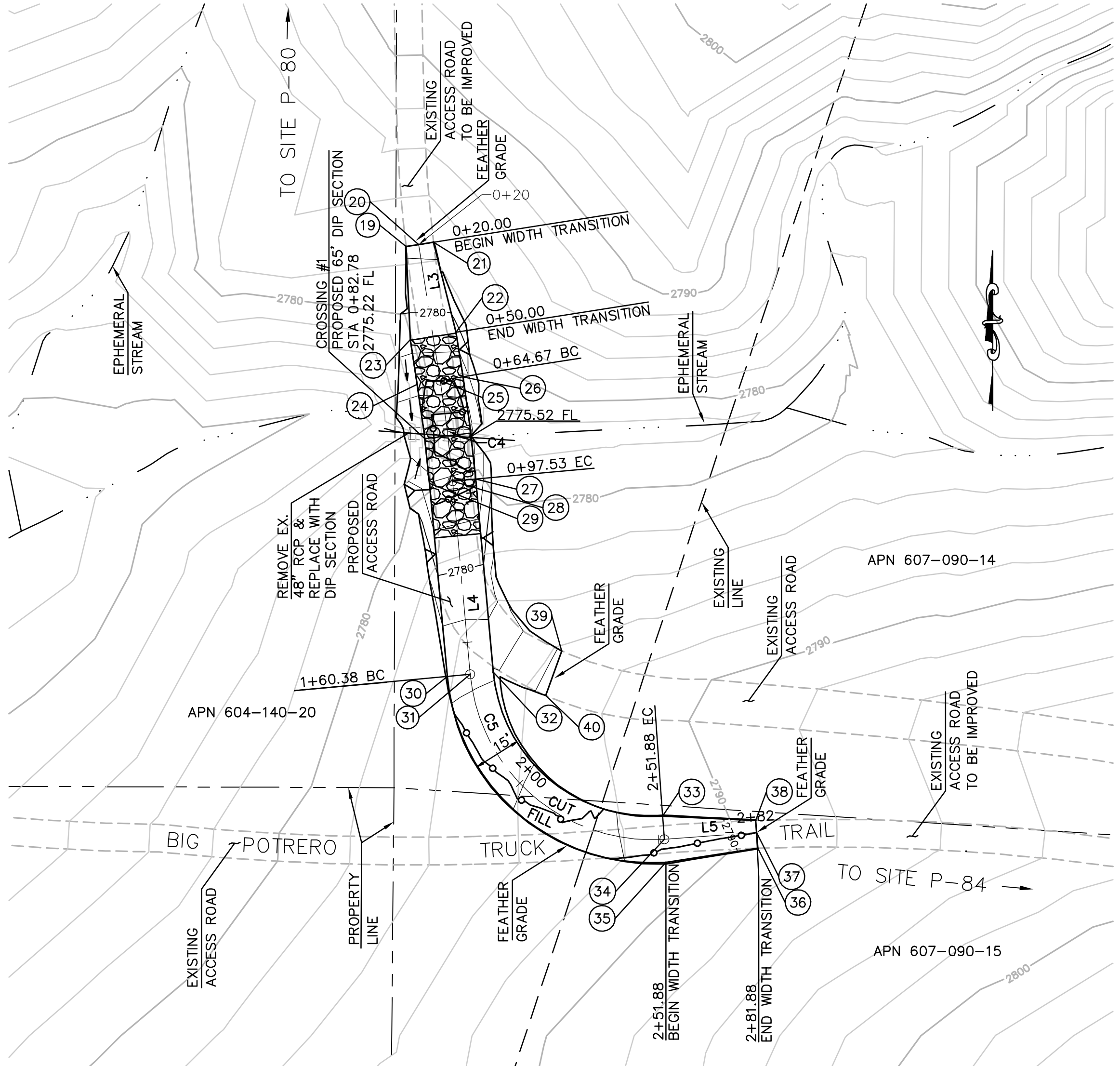


PROFILE: ACCESSS ROAD TO TOWER P-80

HORZ. & VERT. SCALE: 1" = 30'

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	30.00	16.19	30°55'15"
C2	30.00	77.14	147°19'29"
C3	30.00	12.37	23°36'59"
C4	500.00	32.86	3°45'57"
C5	59.00	91.50	88°51'08"
L1		30.00	N90°00'00"E
L2		30.00	S2°47'15"W
L3		44.67	S8°58'44"E
L4		62.85	S5°12'47"E
L5		30.00	N85°56'05"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1818806.29	6479045.08	(2806.95)	EG
2	1818810.79	6479045.08	(2806.86)	CL/EG
3	1818815.31	6479045.08	(2806.77)	EG
4	1818803.29	6479075.08	2812.98	BC
5	1818810.79	6479075.08	2812.83	CL/BC
6	1818818.29	6479075.08	2812.68	BC
7	1818808.62	6479094.35	2815.72	PRC
8	1818815.05	6479090.50	2815.57	CL/PRC
9	1818821.49	6479086.64	2815.42	PRC
10	1818779.31	6479126.06	2816.79	PRC
11	1818775.98	6479132.78	2816.64	CL/PRC
12	1818772.64	6479139.50	2816.49	PRC
13	1818764.46	6479122.20	2814.45	EC
14	1818764.10	6479129.69	2814.30	CL/EC
15	1818763.73	6479137.18	2814.15	EC
16	1818734.34	6479123.95	(2808.70)	EG
17	1818734.13	6479128.23	(2808.62)	CL/EG
18	1818733.90	6479132.94	(2808.52)	EG
19	1818439.13	6479128.64	(2782.39)	EG
20	1818439.77	6479132.70	(2782.47)	CL/EG
21	1818440.53	6479137.54	(2782.57)	EG
22	1818411.31	6479144.79	2779.02	FG
23	1818408.97	6479129.97	2778.72	FG
24	1818394.48	6479132.26	2776.42	BC
25	1818395.65	6479139.67	2776.57	CL/BC
26	1818396.82	6479147.08	2776.72	BC
27	1818363.73	6479151.20	2776.32	EC
28	1818363.04	6479143.73	2776.17	CL/EC
29	1818362.36	6479136.26	2776.02	EC
30	1818299.77	6479141.97	2783.48	BC
31	1818300.45	6479149.44	2783.63	CL/BC
32	1818301.13	6479156.91	2783.78	BC
33	1818254.44	6479211.85	2788.96	EC
34	1818246.96	6479212.38	2788.81	CL/EC
35	1818239.48	6479212.91	2788.66	EC
36	1818244.03	6479242.66	(2790.38)	EG
37	1818249.09	6479242.30	(2790.48)	CL/EG
38	1818253.02	6479242.02	(2790.56)	EG
39	1818307.92	6479179.10	(2786.25)	EG
40	1818293.55	6479173.92	(2786.54)	EG



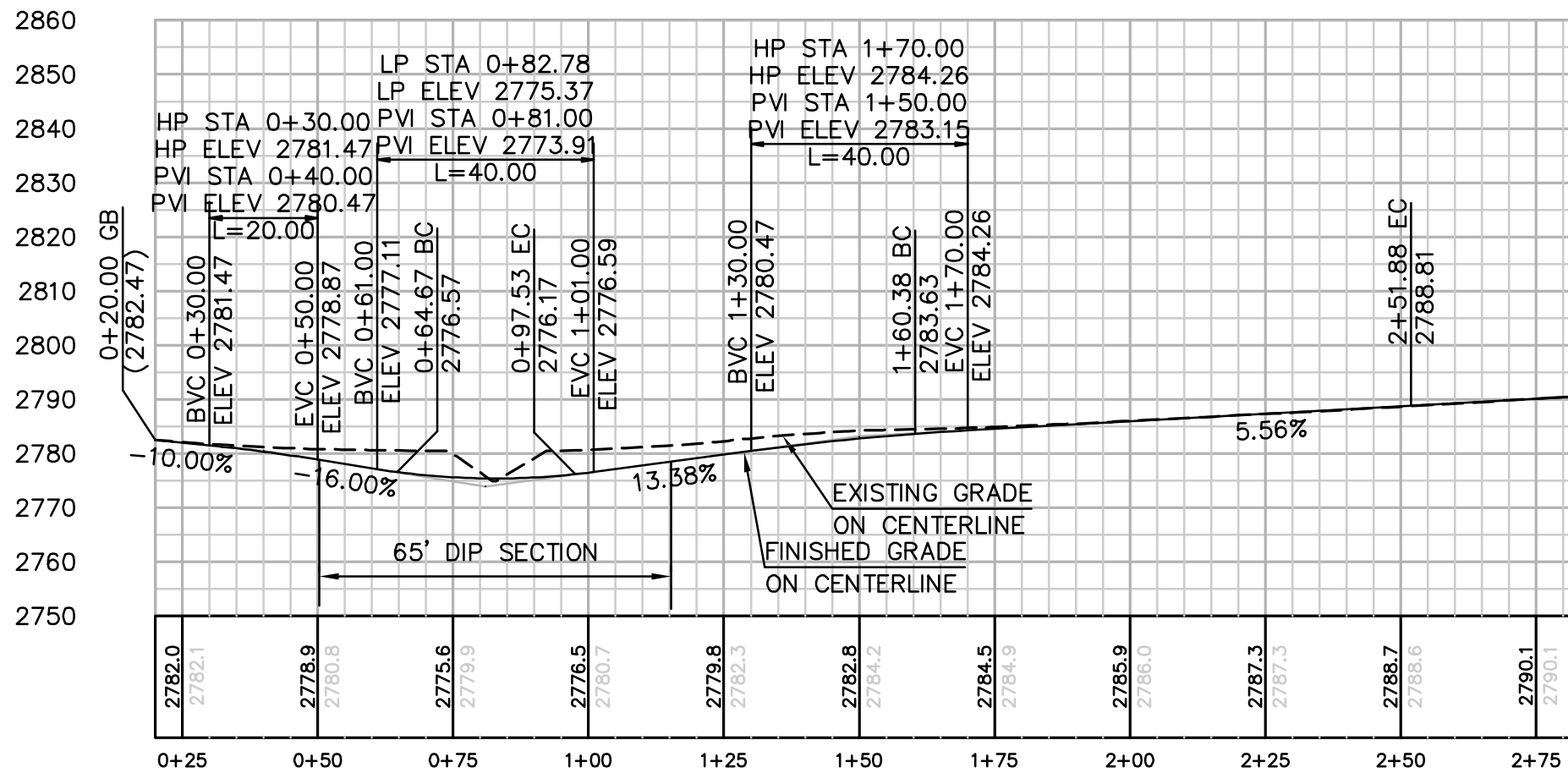
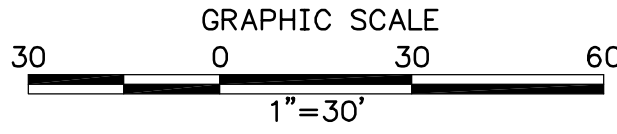
EARTH QUANTITIES:
CUT: 252 CY.
FILL: 2 CY.
NET: 250 CY.

DISTURBED AREA:
ROAD: 4,800 SF
LENGTH OF ACCESS ROAD: 262 LF

QUANTITIES:
DIP SECTION: 975 SF
DIP SECTION EXPORT: 66 CY

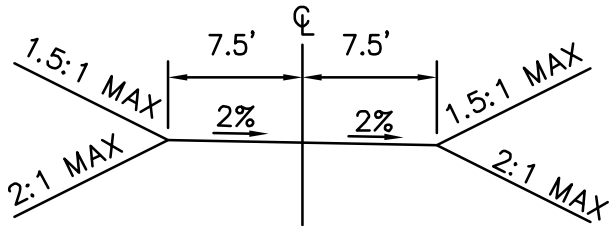
ACCESS ROAD TO TOWER P-80 PLAN

SCALE: 1" = 30'



PROFILE: ACCESSS ROAD TO TOWER P-80

HORZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION

STA 0+50.00 TO 2+51.88
STA 0+30.00 TO 1+35.69
N.T.S.

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

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SAN DIEGO, CALIFORNIA

SPL-08D (LINK 2)

DETAILED OFF-SITE ROAD IMPROVEMENTS

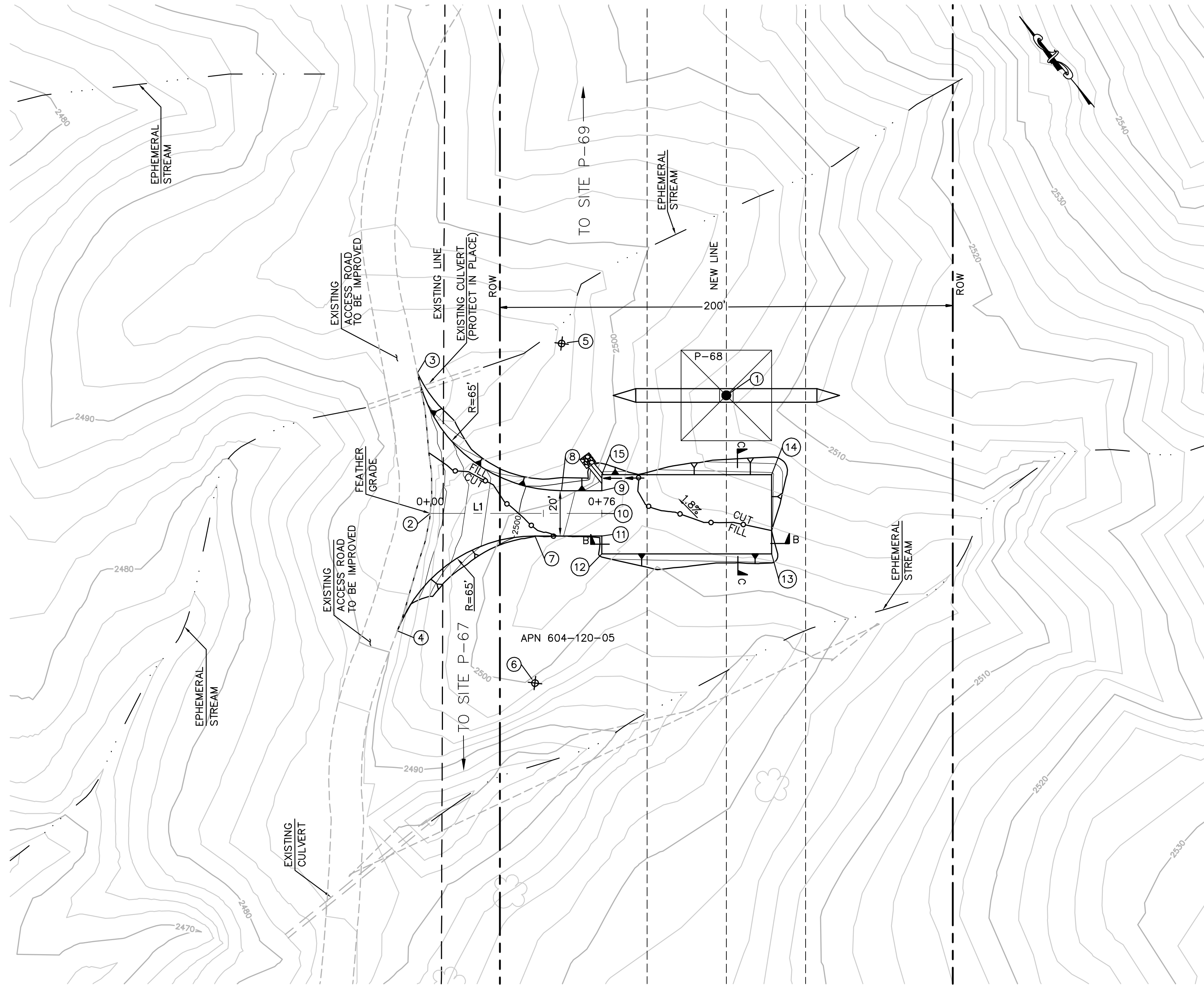
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CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

08D-P80-ARMJ1



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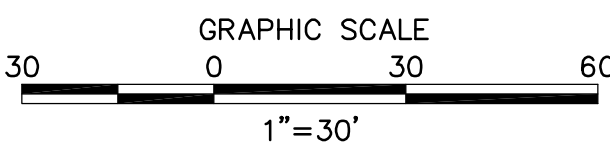
EARTH QUANTITIES: CUT: 143 CY. FILL: 118 CY. NET: 25 CY.

DISTURBED AREA: PAD: 3,605 SF. ROAD: 2,552 SF. TOTAL: 6,157 SF.

QUANTITIES: DOWN DRAIN: 8 LF. RIPRAP: 25 SF.

LENGTH OF ACCESS ROAD: 76 LF

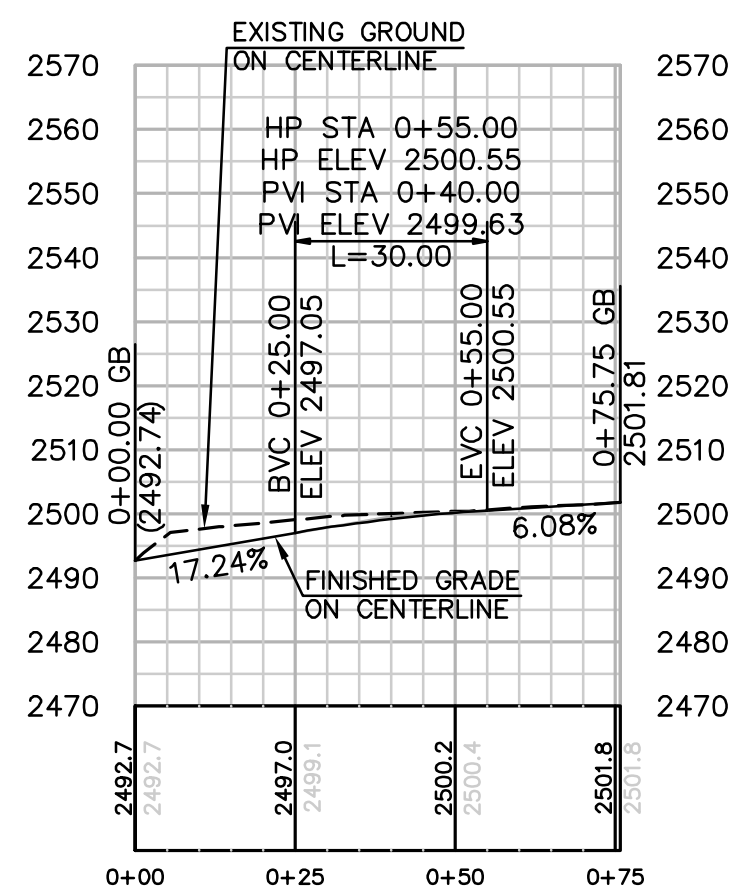
TOWER P-68 PLAN
SCALE: 1" = 30'



STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-68	500 KV EXMT Lattice Tangent Tower	0.00	130.50

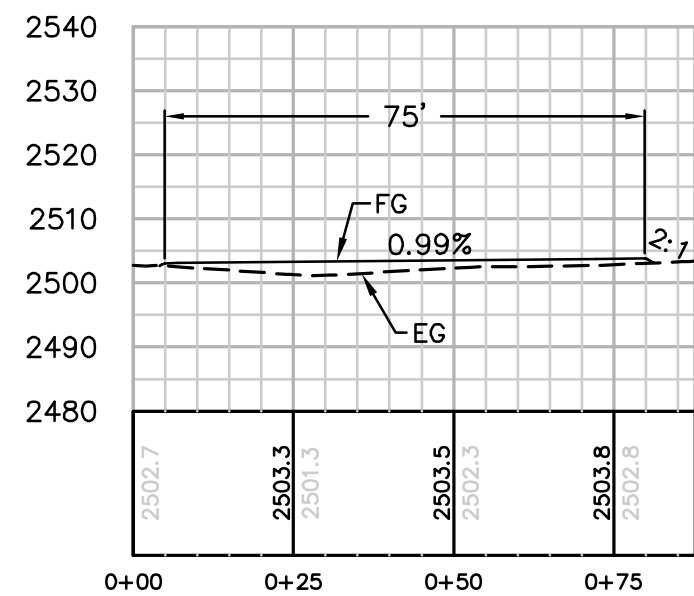
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1818574.10	6462853.29	(2507.19)	P-68
2	1818614.09	6462718.35	(2492.74)	CL/EG
3	1818666.30	6462752.27	2492.47	BC
4	1818582.26	6462674.79	2490.90	BC
5	1818637.10	6462810.34		RP
6	1818526.55	6462708.27		RP
7	1818577.61	6462748.50	2501.23	EC
8	1818586.04	6462770.11	2501.63	EC
9	1818575.07	6462784.04	2502.71	FG
10	1818567.22	6462777.85	2501.81	CL/FG
11	1818559.36	6462771.66	2503.03	FG
12	1818553.15	6462766.77	2503.15	FG
13	1818506.74	6462825.68	2503.90	FG
14	1818534.23	6462847.34	2503.55	FG
15	1818580.65	6462788.43	2502.60	FG

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		75.75	S51°45'56"E



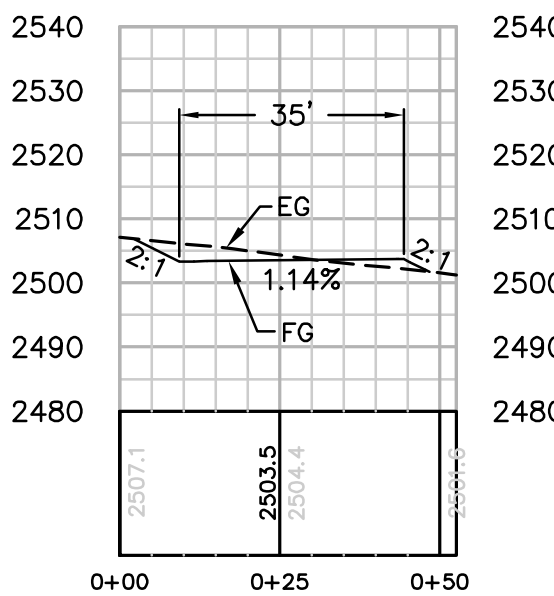
PROFILE: ACCESS ROAD TO TOWER P-68

HORIZ. & VERT. SCALE: 1" = 30'



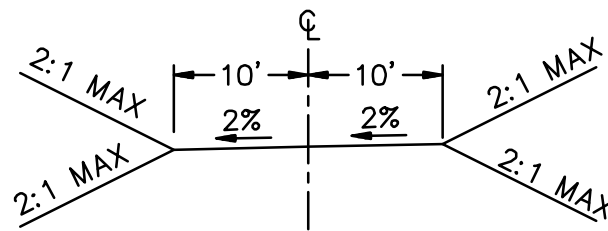
SECTION B-B

HORIZ. & VERT. SCALE: 1" = 30'



SECTION C-C

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION

STA 0+50.00 TO 0+75.75
N.T.S.

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

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SAN DIEGO, CALIFORNIA

SPL-8D (LINK 2)

SITE P-68

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

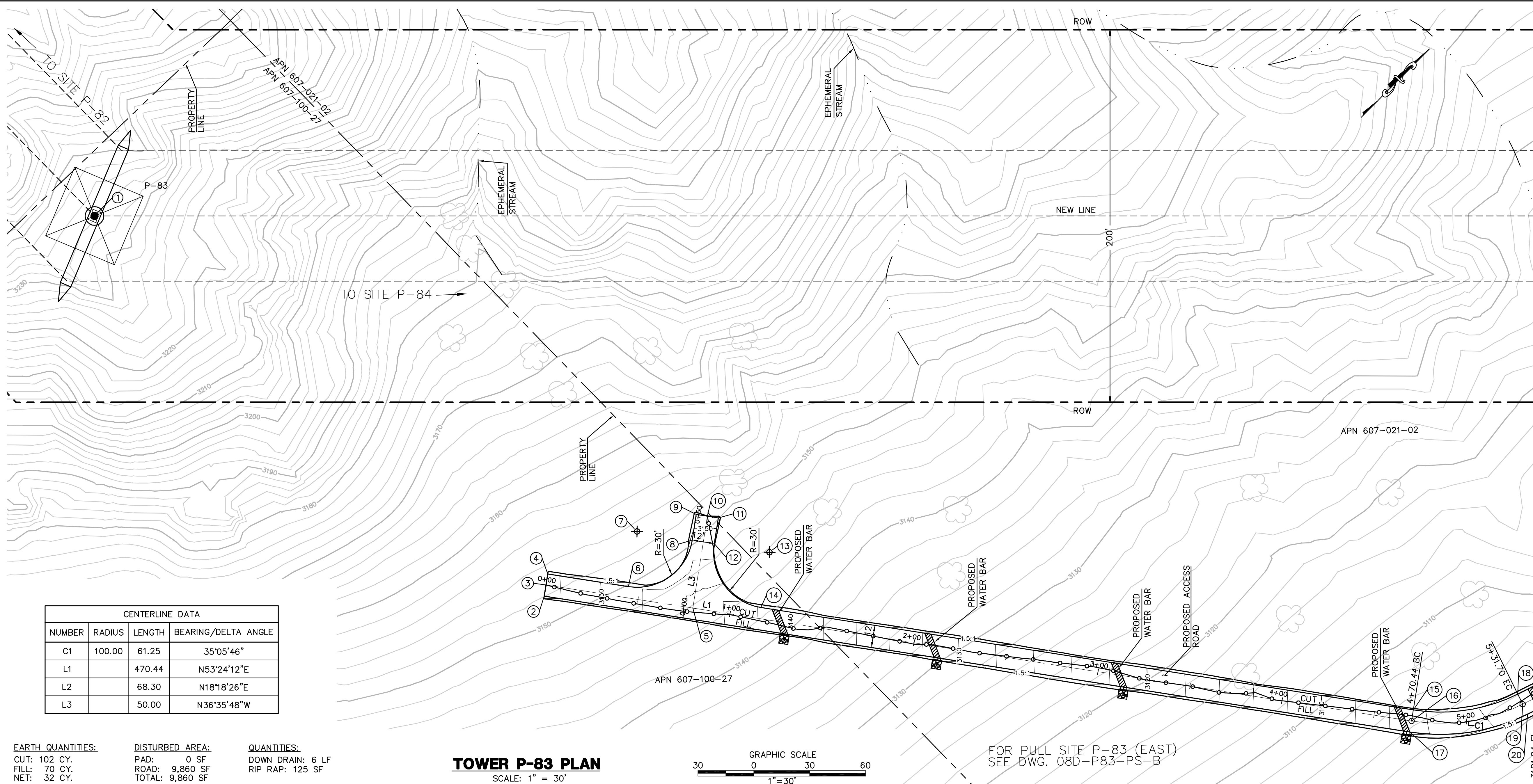
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P:\16919 SD&E SPL\CADD\08D\dwg\plan\08D-P83-S1.dwg[May-20-2010]1700



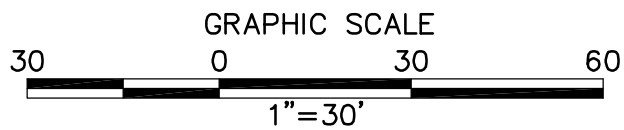
CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/Delta ANGLE
C1	100.00	61.25	35°05'46"
L1		470.44	N53°24'12"E
L2		68.30	N18°18'26"E
L3		50.00	N36°35'48"W

EARTH QUANTITIES:
CUT: 102 CY.
FILL: 70 CY.
NET: 32 CY.

DISTURBED AREA:
PAD: 0 SF
ROAD: 9,860 SF
TOTAL: 9,860 SF

QUANTITIES:
DOWN DRAIN: 6 LF
RIP RAP: 125 SF
LENGTH OF ACCESS ROAD: 650 LF

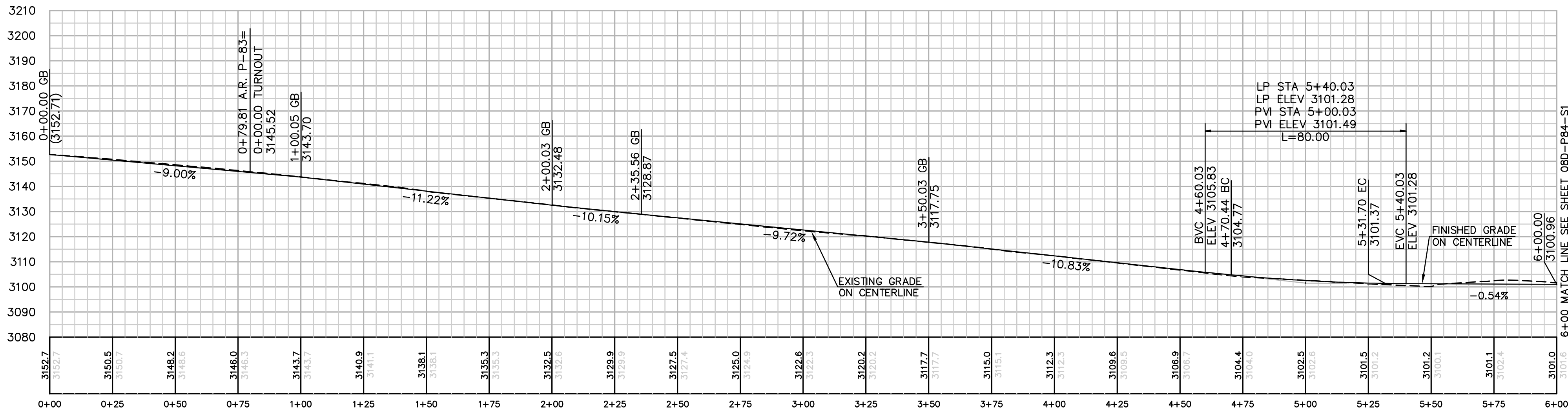
TOWER P-83 PLAN
SCALE: 1" = 30'



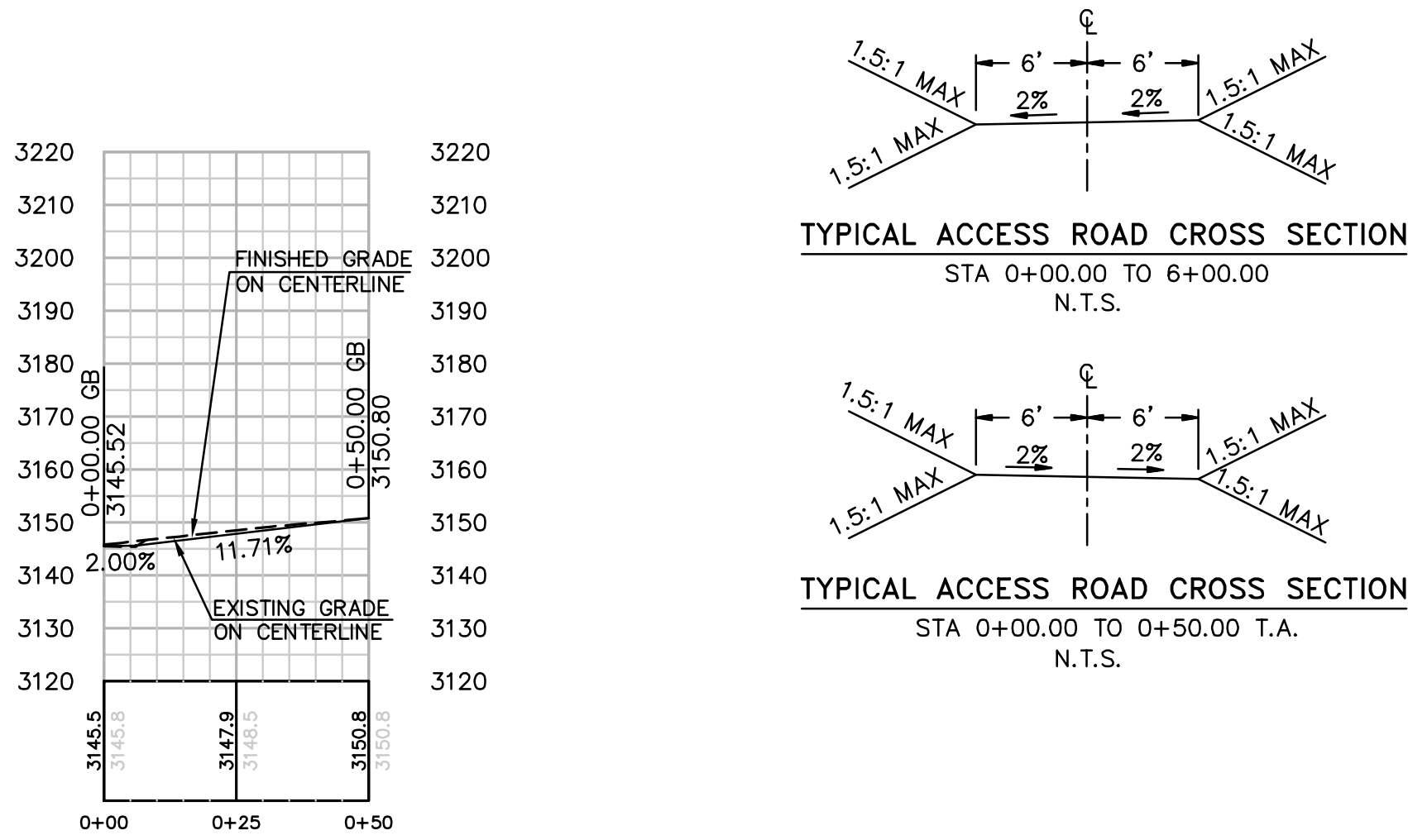
FOR PULL SITE P-83 (EAST)
SEE DWG. 08D-P83-PS-B

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-83	500 KV EXMD Lattice Dead-end Tower	-45.70	144.75

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1819994.04	6483111.69	(3234.01)	P-83
2	1820023.35	6483426.49	3152.83	FG
3	1820028.17	6483422.91	3152.71	CL
4	1820032.99	6483419.33	3152.59	FG
5	1820075.75	6483486.99	3145.52	CL
6	1820059.11	6483454.51	3148.64	FG
7	1820083.19	6483436.62	3153.32	RP
8	1820101.08	6483460.71	3149.28	FG
9	1820112.32	6483452.36	3150.92	FG
10	1820115.90	6483457.18	3150.80	CL
11	1820119.47	6483462.00	3150.68	FG
12	1820108.23	6483470.34	3149.04	FG
13	1820126.12	6483494.43	3145.72	RP
14	1820102.03	6483512.31	3141.81	FG
15	1820313.46	6483797.03	3104.65	FG
16	1820308.64	6483800.61	3104.77	CL/BC
17	1820303.82	6483804.18	3104.89	FG
18	1820359.40	6483830.23	3101.25	FG
19	1820357.51	6483835.93	3101.37	CL/EC
20	1820355.63	6483841.62	3101.49	FG
21	1820424.24	6483851.69	3100.84	FG
22	1820422.36	6483857.38	3100.96	CL
23	1820420.47	6483863.08	3101.08	FG



PROFILE: ACCESS ROAD TO TOWER P-83
HORIZ. & VERT. SCALE: 1" = 30'



PROFILE: TURN AROUND
HORIZ. & VERT. SCALE: 1" = 30'

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

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SPL-8D (LINK 2)
SITE P-83

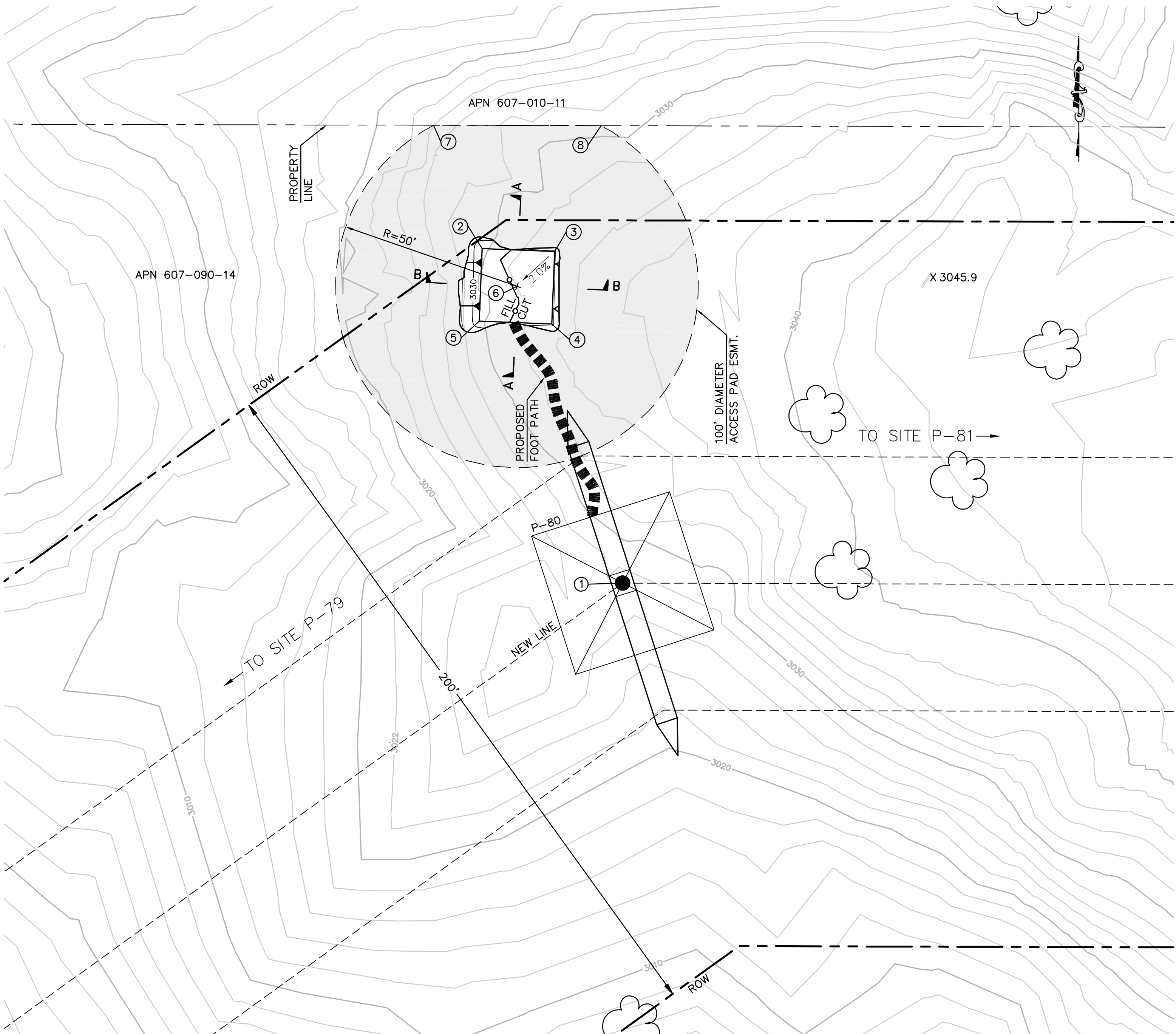
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CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1 = 1		

08D-P83-S1



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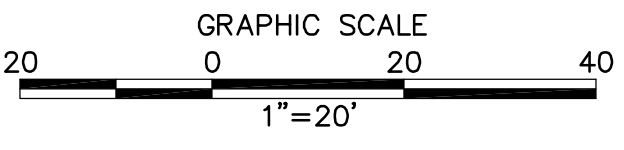


EARTH QUANTITIES:
CUT: 10 CY
FILL: 8 CY
NET: 2 CY

DISTURBED AREA:
PAD: 603 SF
TOTAL: 603 SF

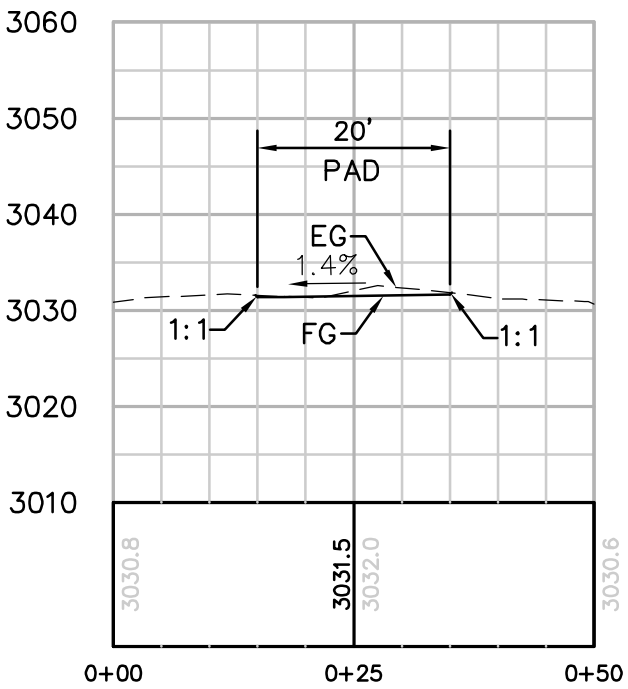
TOWER STAGING/ACCESS PAD FOR TOWER P-80
(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

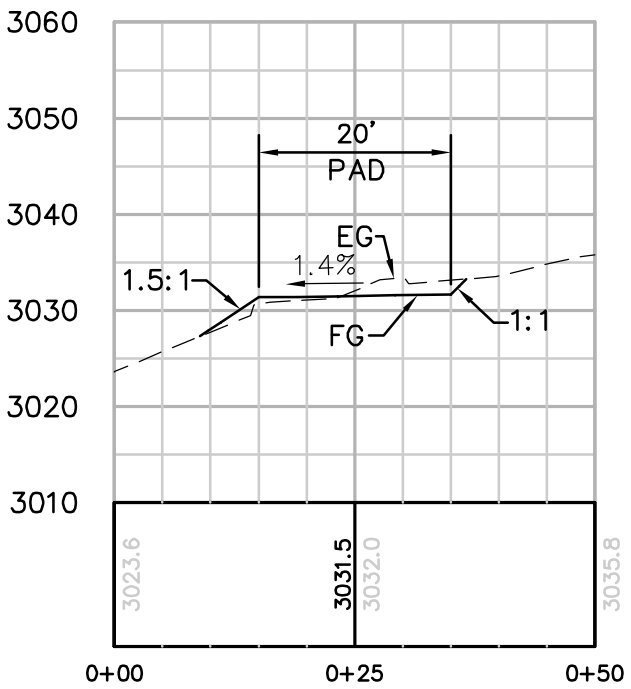


NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1820005.27	6479371.56	(3026.50)	P-80
2	1820097.51	6479332.84	3031.50	FG
3	1820096.67	6479352.82	3031.78	FG
4	1820076.69	6479351.99	3031.50	FG
5	1820077.53	6479332.00	3031.22	FG
6	1820087.10	6479342.41		RP
7	1820131.50	6479319.42		
8	1820131.38	6479365.64		

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-80	500 KV EXMD Lattice Dead-end Tower	35.92	132.75



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'

REVISIONS

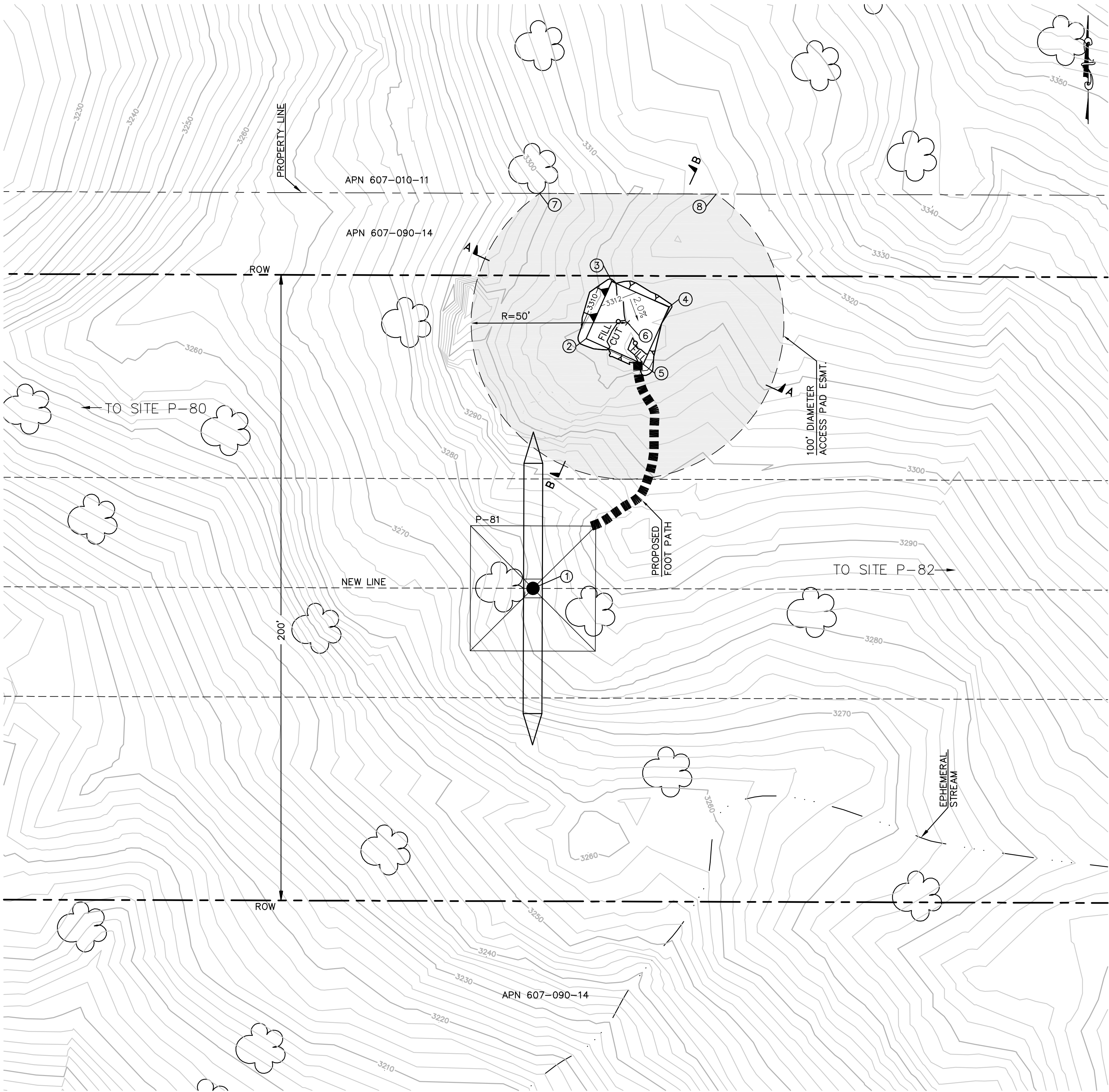
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY SAN DIEGO, CALIFORNIA			
SPL-8D (LINK 2)			
TOWER STAGING/ACCESS PAD FOR SITE P-80			
DRAWN BY: 00	DATE:	SCALE: 1" = 20' W.O.	REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1 = 1		



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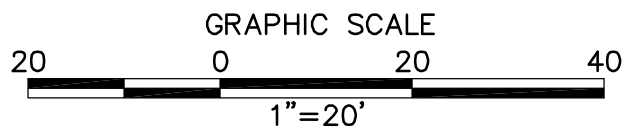


EARTH QUANTITIES: CUT: 7 CY
FILL: 6 CY
NET: 1 CY

DISTURBED AREA: PAD: 580 SF
TOTAL: 580 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-81
(THIS IS NOT A HELIPORT)

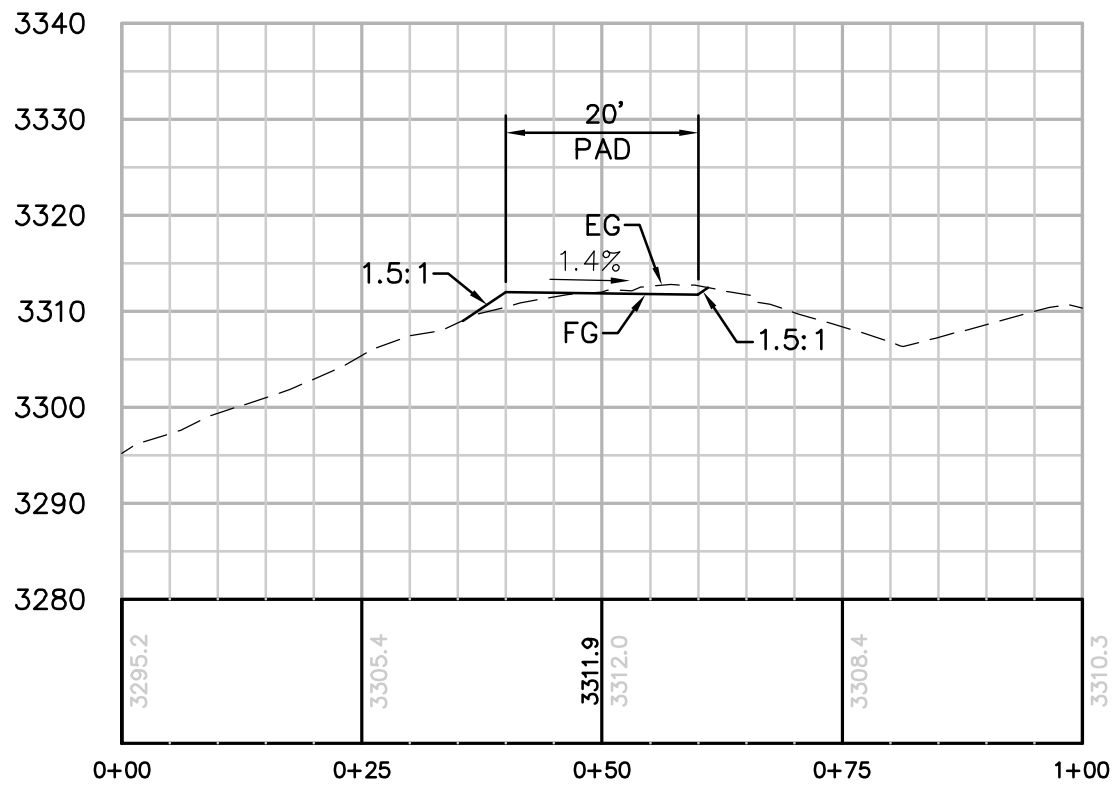
SCALE: 1" = 20'



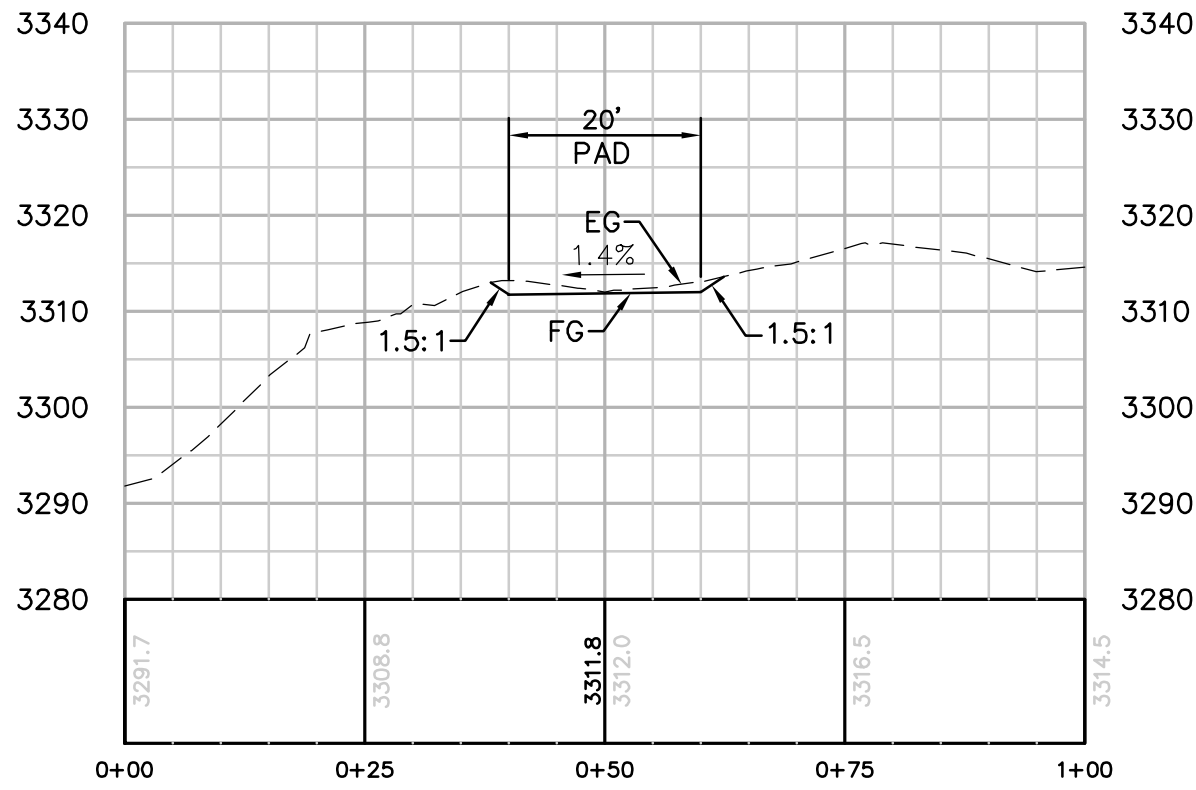
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1819999.90	6481160.20	(3280.88)	P-81
2	1820079.77	6481177.21	3311.84	FG
3	1820098.01	6481185.41	3312.12	FG
4	1820089.81	6481203.65	3311.84	FG
5	1820071.57	6481195.45	3311.56	FG
6	1820084.79	6481190.43		RP
7	1820126.15	6481162.34		
8	1820125.96	6481218.80		

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-81	500 KV EXMT Lattice Tangent Tower	0.00	163.50



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-8D (LINK 2)

TOWER STAGING/ACCESS PAD FOR SITE P-81

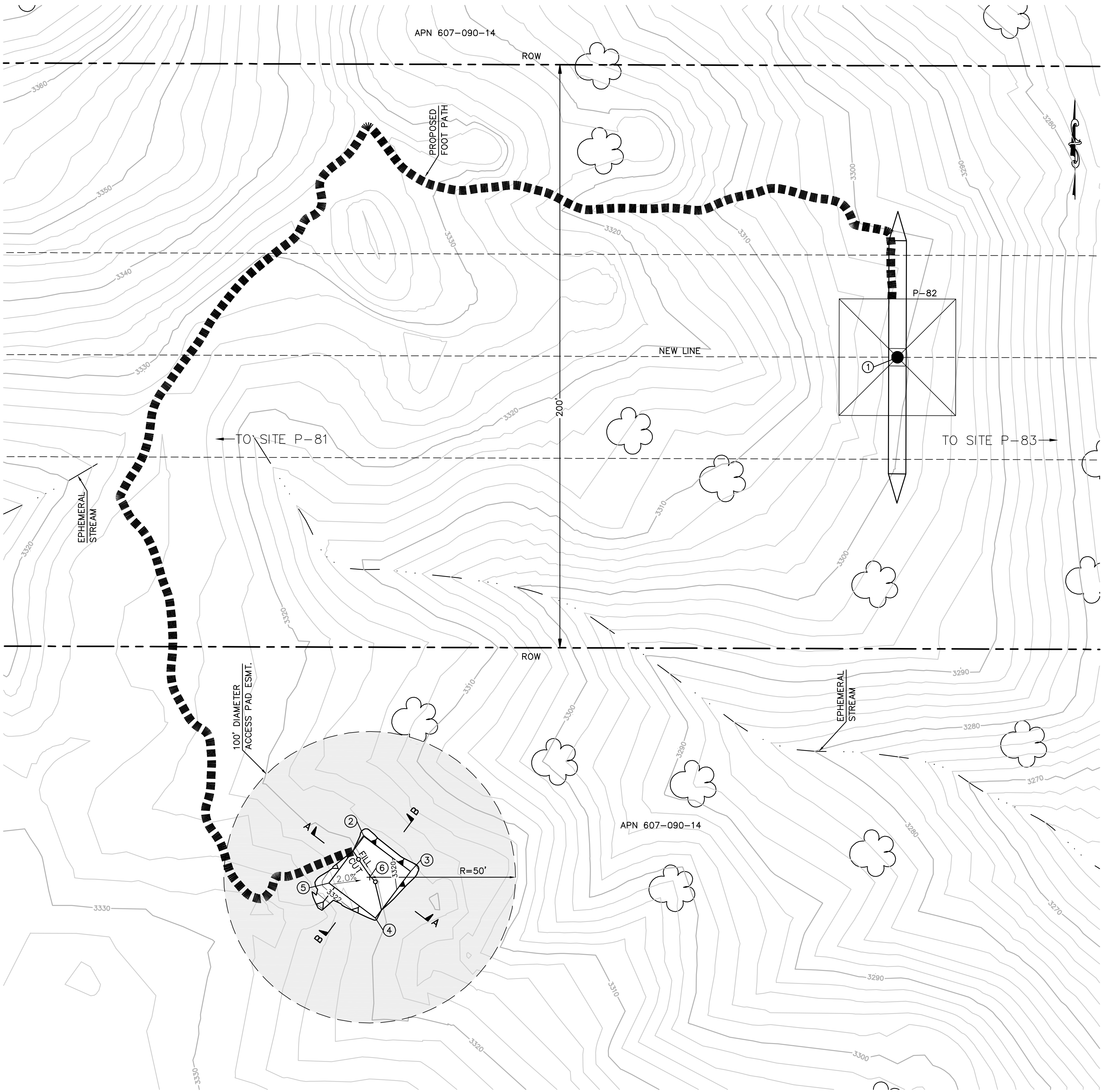
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO:	PLOT SCALE: 1 = 1			

08D-P81-TSAP



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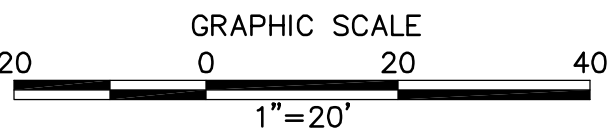


EARTH QUANTITIES: CUT: 8 CY PAD: 608 SF FILL: 6 CY TOTAL: 2 CY

DISTURBED AREA: PAD: 608 SF TOTAL: 608 SF

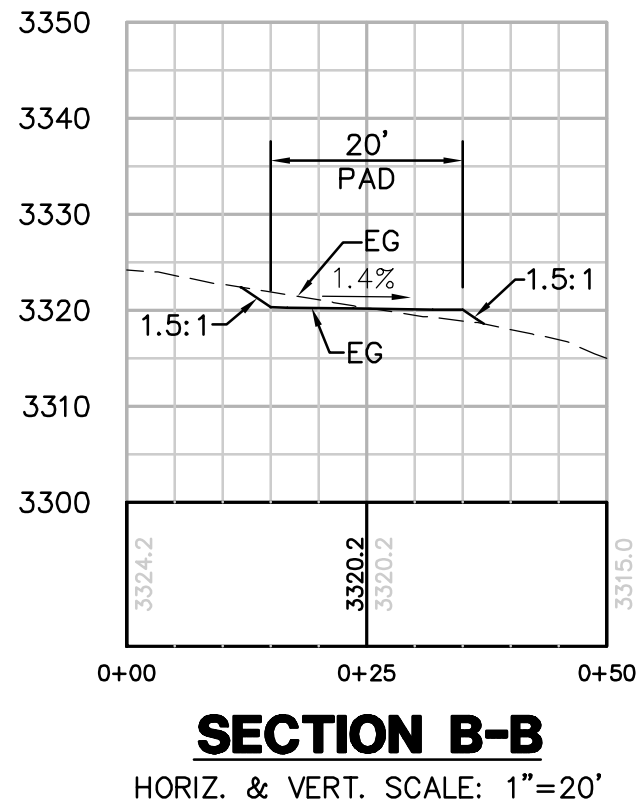
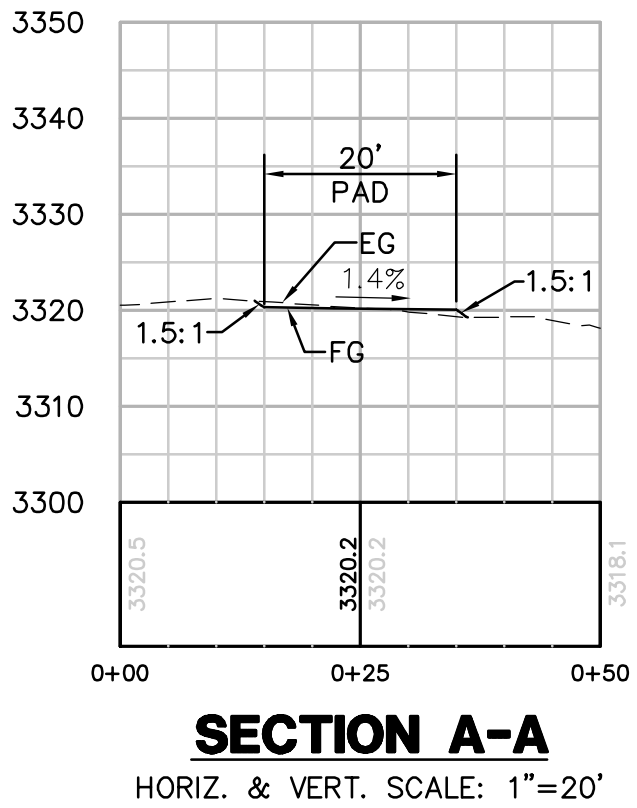
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

TOWER STAGING/ACCESS PAD FOR TOWER P-82
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'



NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1819997.77	6481870.02	(3301.46)	P-82
2	1819833.42	6481687.06	3320.17	FG
3	1819821.39	6481703.04	3319.89	FG
4	1819805.41	6481691.01	3320.17	FG
5	1819817.44	6481675.03	3320.45	FG
6	1819819.42	6481689.04		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-82	500 KV EXMT Lattice Tangent Tower	0.00	160.50



REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY			
SAN DIEGO, CALIFORNIA			
SPL-8D (LINK 2)			
TOWER STAGING/ACCESS PAD FOR SITE P-82			
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:	REV. 0	
APPROVED BY:	DATE:	08D-P82-TSAP	
CAD NO.:	PLOT SCALE: 1" = 1'		

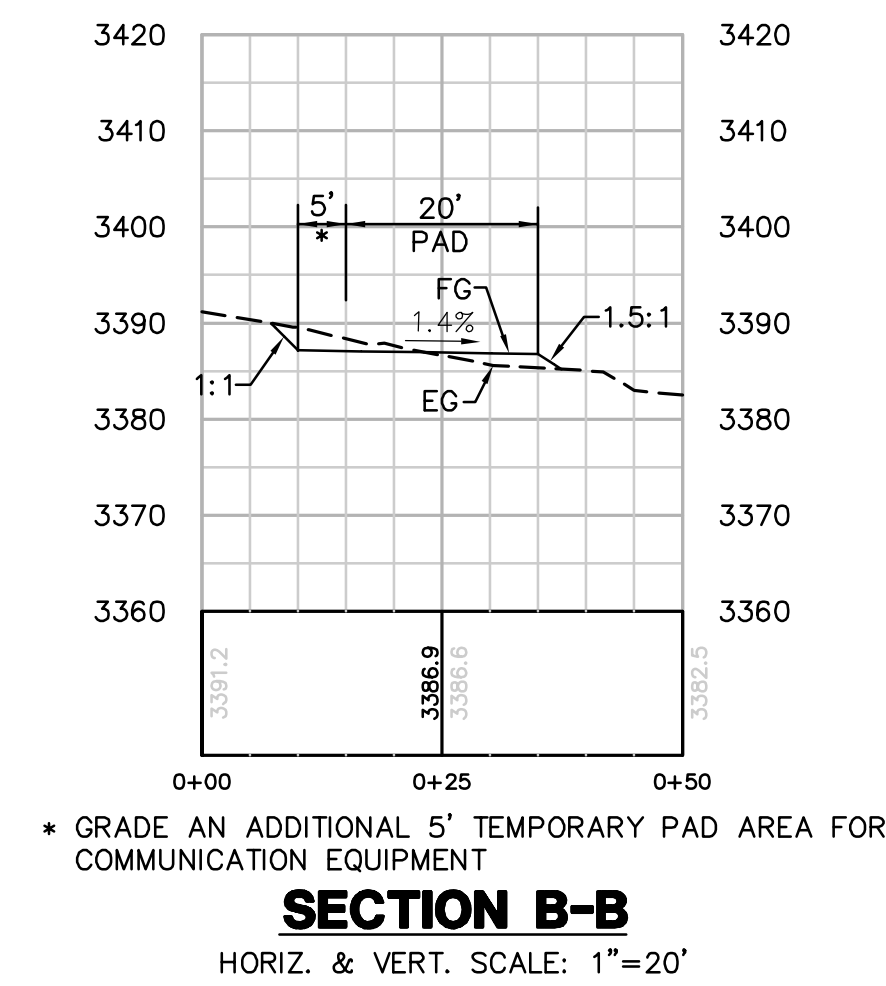


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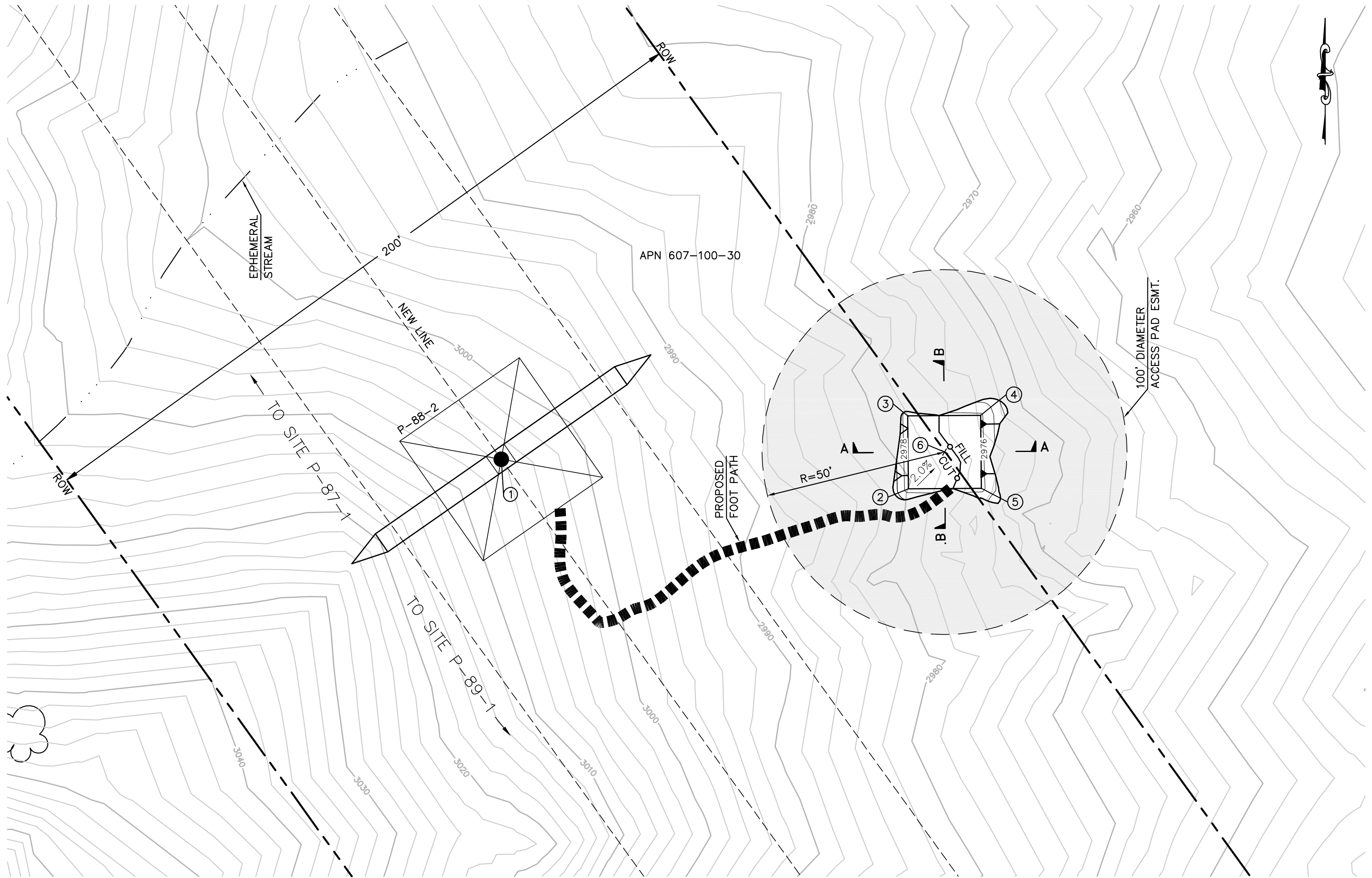
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-87-1	500 KV EXHT Lattice Tangent Tower	0.00	157.50



PAD TO BE RESTORED TO 20' X 20' ONCE TEMPORARY USE FOR COMMUNICATION EQUIPMENT IS OVER.


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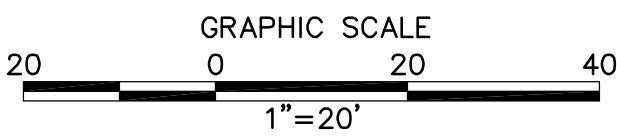
P:\16919 SD&E SPL\CADD\08D\dwg\plan\Helipads\08D-P88-2 TSAP.dwg|May-20-2010|1724



EARTH QUANTITIES: CUT: 14 CY
DISTURBED AREA: PAD: 654 SF
TOTAL: 654 SF
NET: 3 CY

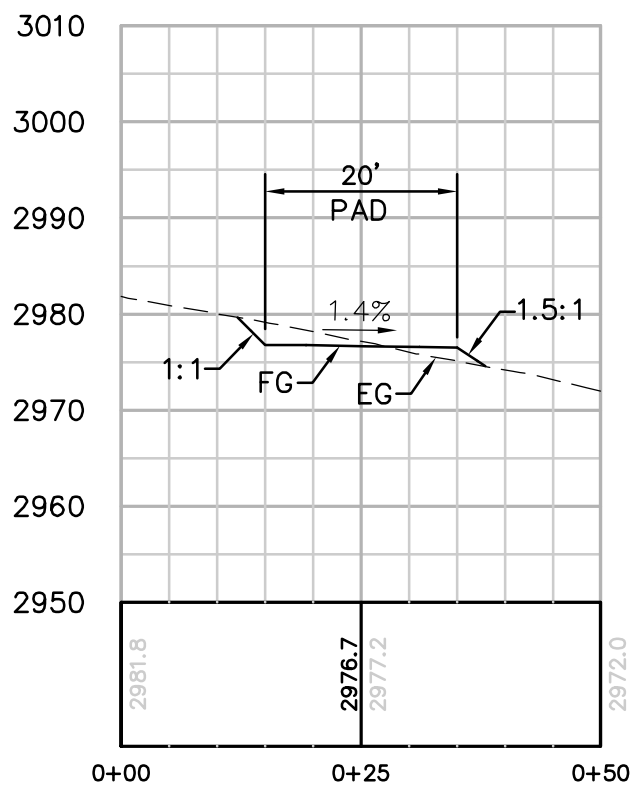
TOWER STAGING/ACCESS PAD FOR TOWER P-88-2
(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'



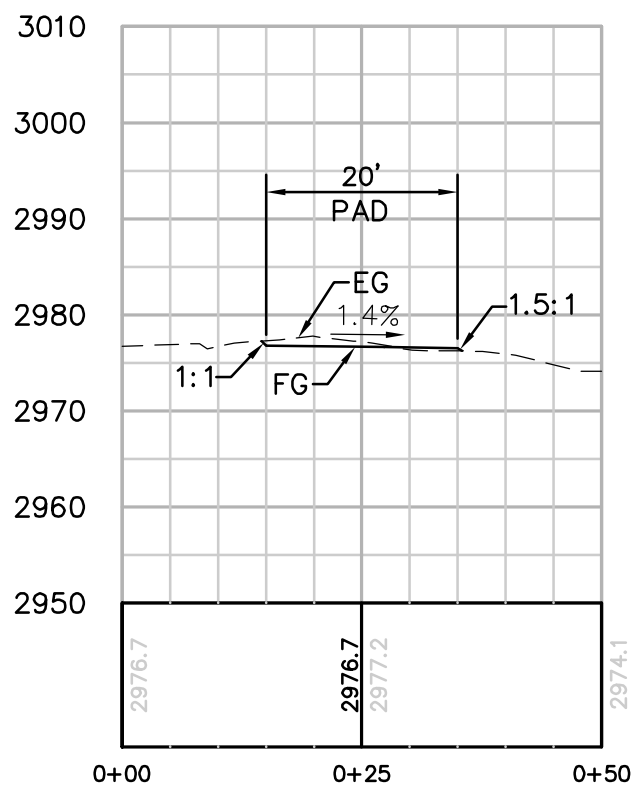
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1819228.77	6487704.48	(3004.01)	P-88-2
2	1819220.66	6487816.08	2976.95	FG
3	1819240.66	6487815.91	2976.67	FG
4	1819240.83	6487835.90	2976.39	FG
5	1819220.83	6487836.08	2976.67	FG
6	1819230.75	6487825.99		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-88-2	500 KV EXLD Lattice Dead-end Tower	0.00	156.75



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

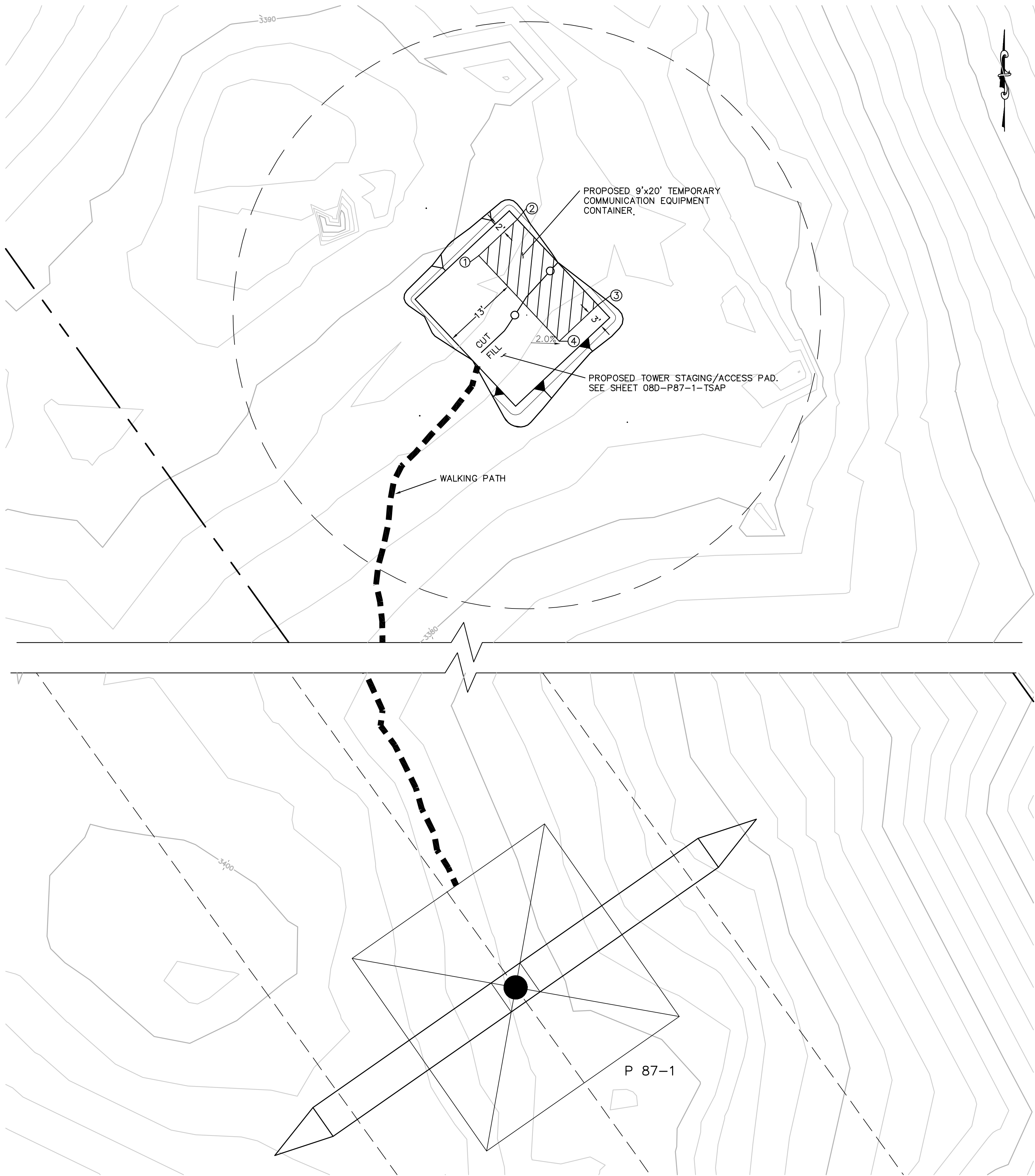
SAN DIEGO GAS & ELECTRIC COMPANY SAN DIEGO, CALIFORNIA			
SPL-8D (LINK 2)			
TOWER STAGING/ACCESS PAD FOR SITE P-88-2			
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O. REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		



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P:\161919 SD&E SPL\Helpads\Cadd\CDMM\Plan\Section 8D\08D-P87-1 CDMM.dwg,Imey-20-20101745

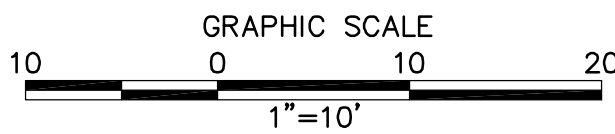


NUMBER	NORTHING	EASTING	DESCRIPTION
1	1820642.92	6486890.87	CORNER
2	1820649.08	6486897.43	CORNER
3	1820634.50	6486911.12	CORNER
4	1820628.34	6486904.56	CORNER

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-87-1	500 KV EXHT Lattice Tangent Tower	0.00	157.50

TEMPORARY COMMUNICATION TOWER LAYOUT

SCALE: 1" = 10'



REVISIONS

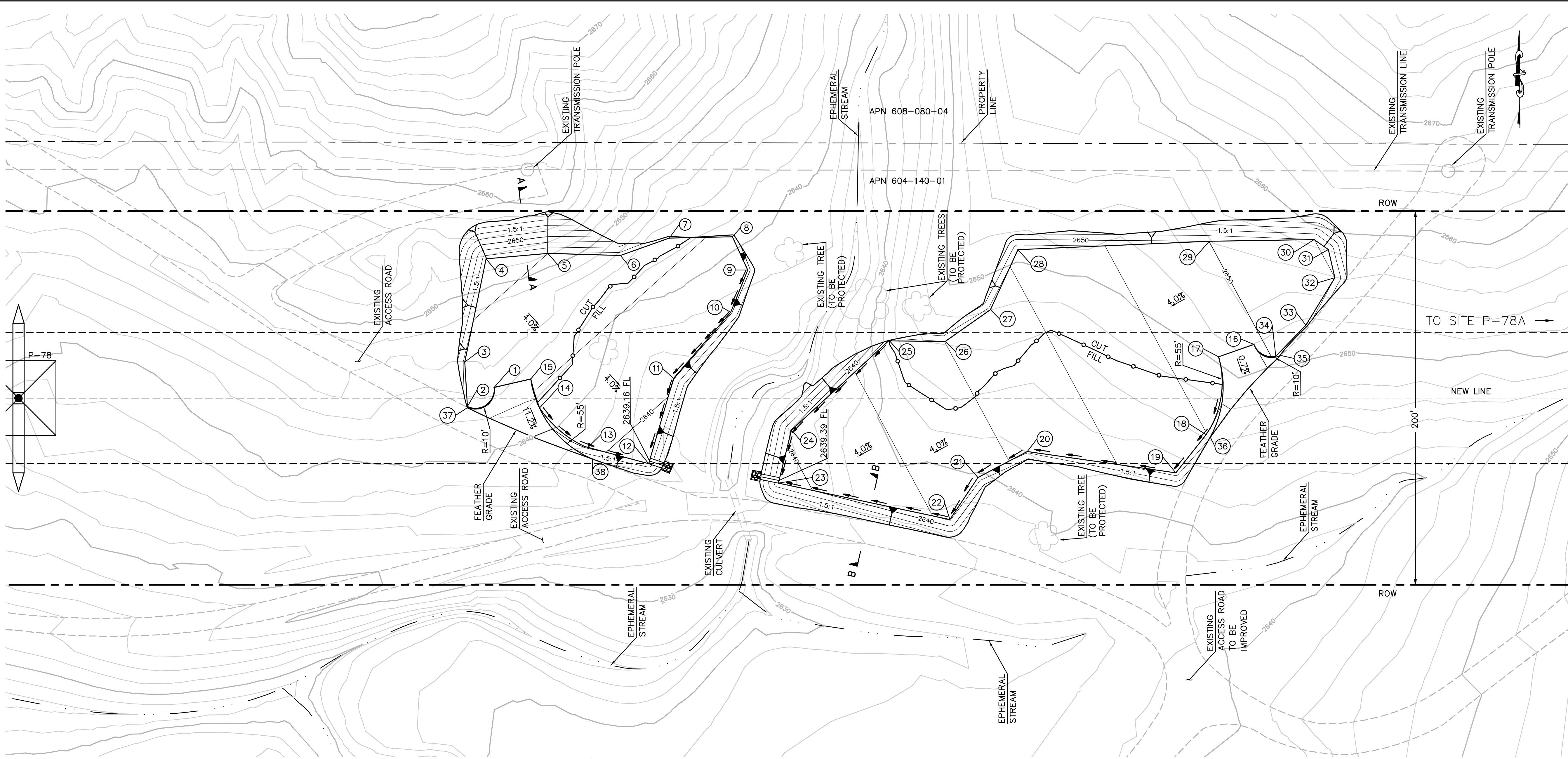
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY SAN DIEGO, CALIFORNIA			
SPL-8D (LINK 2)			
P-87-1 TEMPORARY COMMUNICATION TOWER			
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O. REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1 = 1		



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NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1819249.32	6475986.61	2642.63	BC
2	1819239.10	6475972.22	2642.89	EC
3	1819262.95	6475970.89	2643.46	FG
4	1819318.08	6475982.43	2644.80	FG
5	1819320.90	6476015.50	2644.00	FG
6	1819319.74	6476054.35	2642.93	FG
7	1819329.02	6476080.45	2642.52	FG
8	1819329.59	6476114.27	2641.63	FG
9	1819311.82	6476122.39	2640.89	FG
10	1819289.23	6476113.30	2640.45	FG
11	1819253.88	6476082.57	2640.21	FG
12	1819208.29	6476069.24	2639.26	FG
13	1819217.10	6476036.73	2640.34	EC
14	1819238.27	6476010.86	2641.47	BC
15	1819253.78	6476006.16	2642.24	BC
16	1819271.29	6476393.23	2649.80	BC
17	1819264.83	6476374.30	2649.01	BC
18	1819223.15	6476367.49	2647.98	EC
19	1819202.77	6476351.32	2647.02	FG
20	1819214.36	6476271.84	2644.44	FG
21	1819200.53	6476245.37	2643.25	FG
22	1819178.03	6476230.36	2642.29	FG
23	1819197.72	6476138.52	2639.49	FG
24	1819226.00	6476145.60	2640.21	FG
25	1819273.69	6476198.21	2642.97	FG
26	1819273.30	6476228.02	2644.01	FG
27	1819290.28	6476252.32	2645.19	FG
28	1819322.29	6476267.02	2646.32	FG
29	1819326.61	6476369.48	2650.01	FG
30	1819327.40	6476425.59	2652.00	FG
31	1819322.07	6476433.16	2652.16	FG
32	1819306.92	6476436.65	2652.00	FG
33	1819281.55	6476421.07	2650.97	FG
34	1819264.93	6476404.88	2650.08	EC
35	1819265.42	6476407.52	(2650.49)	EC
36	1819221.76	6476369.68	(2646.27)	EC
37	1819238.49	6475972.16	(2642.84)	EC
38	1819210.91	6476039.05	(2636.67)	EC

EARTH QUANTITIES:
CUT: 2,109 CY.
FILL: 1,943 CY.
NET: 166 CY.

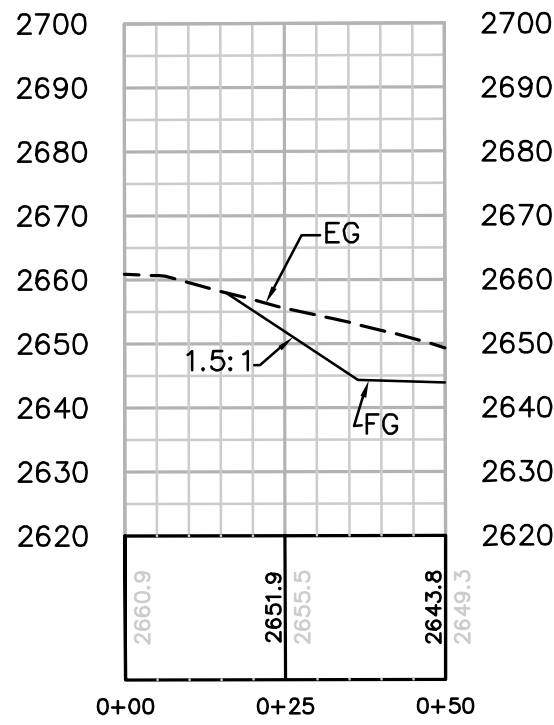
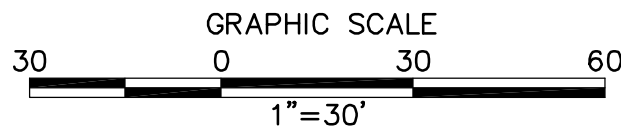
DISTURBED AREA:
PULL SITE: 46,701 SF

QUANTITIES:
RIP RAP: 50 SF
DOWN DRAIN: 18 LF

PULL SITE P-78 PLAN (TEMPORARY)

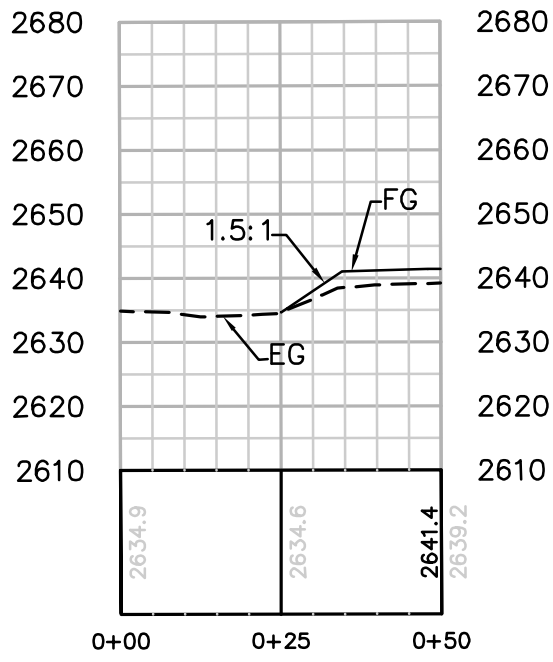
SCALE: 1" = 30'

NOTE: GRADING IS TEMPORARY ON
TEMPORARY PULL SITE LOCATIONS AND
ACCESS ROADS.



SECTION A-A

HOR. & VERT. SCALE: 1" = 30'



SECTION B-B

HOR. & VERT. SCALE: 1" = 30'

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-8D (LINK 2)

PULL SITE P-78

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:		PLOT SCALE: 1 = 1		

08D-P78-PS



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NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1819002.96	6483168.39	3111.93	FG
2	1819004.35	6483181.92	3111.83	CL/FG
3	1819005.75	6483195.45	3111.74	FG
4	1818995.72	6483206.80	3110.86	BC
5	1818988.22	6483200.18	3111.06	CL/BC
6	1818980.73	6483193.56	3111.26	BC
7	1818942.66	6483333.14	3100.86	EC
8	1818952.48	6483331.24	3100.66	CL/EC
9	1818962.29	6483329.35	3100.46	EC
10	1819008.24	6483567.11	3083.78	BC
11	1818998.42	6483569.01	3083.98	CL/BC
12	1818988.61	6483570.90	3084.18	BC
13	1818997.81	6483725.11	3074.34	EC
14	1819007.78	6483725.83	3074.14	CL/EC
15	1819017.76	6483726.55	3073.94	EC
16	1818995.67	6484034.16	3051.69	BC
17	1818975.72	6484032.72	3052.09	BC
18	1818902.90	6484092.58	(3048.92)	EC
19	1818980.96	6484099.32	(3048.79)	CL/EG
20	1819050.75	6484108.18	(3048.96)	EC
21	1819009.24	6483229.37	3111.51	FG
22	1819075.71	6483213.75	3113.66	FG
23	1819199.53	6483200.87	3117.50	FG
24	1819257.18	6483077.90	3120.46	FG
25	1819022.63	6482973.64	3114.46	FG
26	1818999.32	6483133.14	3112.17	FG
50	1819060.14	6484043.86		RP
51	1818910.88	6484028.07		RP

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	153.88	140.70	52°23'23"
C2	600.00	157.56	15°02'44"
L1		24.36	S48°32'54"E
L2		242.16	N79°03'43"E
L3		374.45	N85°53'32"W

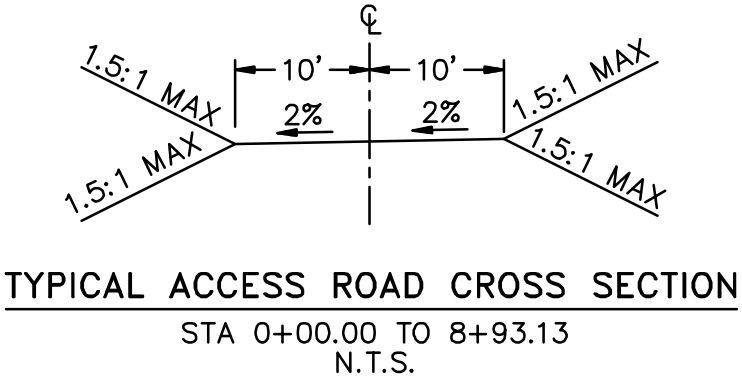
NOTE: GRADING IS TEMPORARY ON
TEMPORARY PULL SITE LOCATIONS AND
ACCESS ROADS.

EARTH QUANTITIES: CUT: 4,268 CY.
FILL: 4,248 CY.
NET: 20 CY.

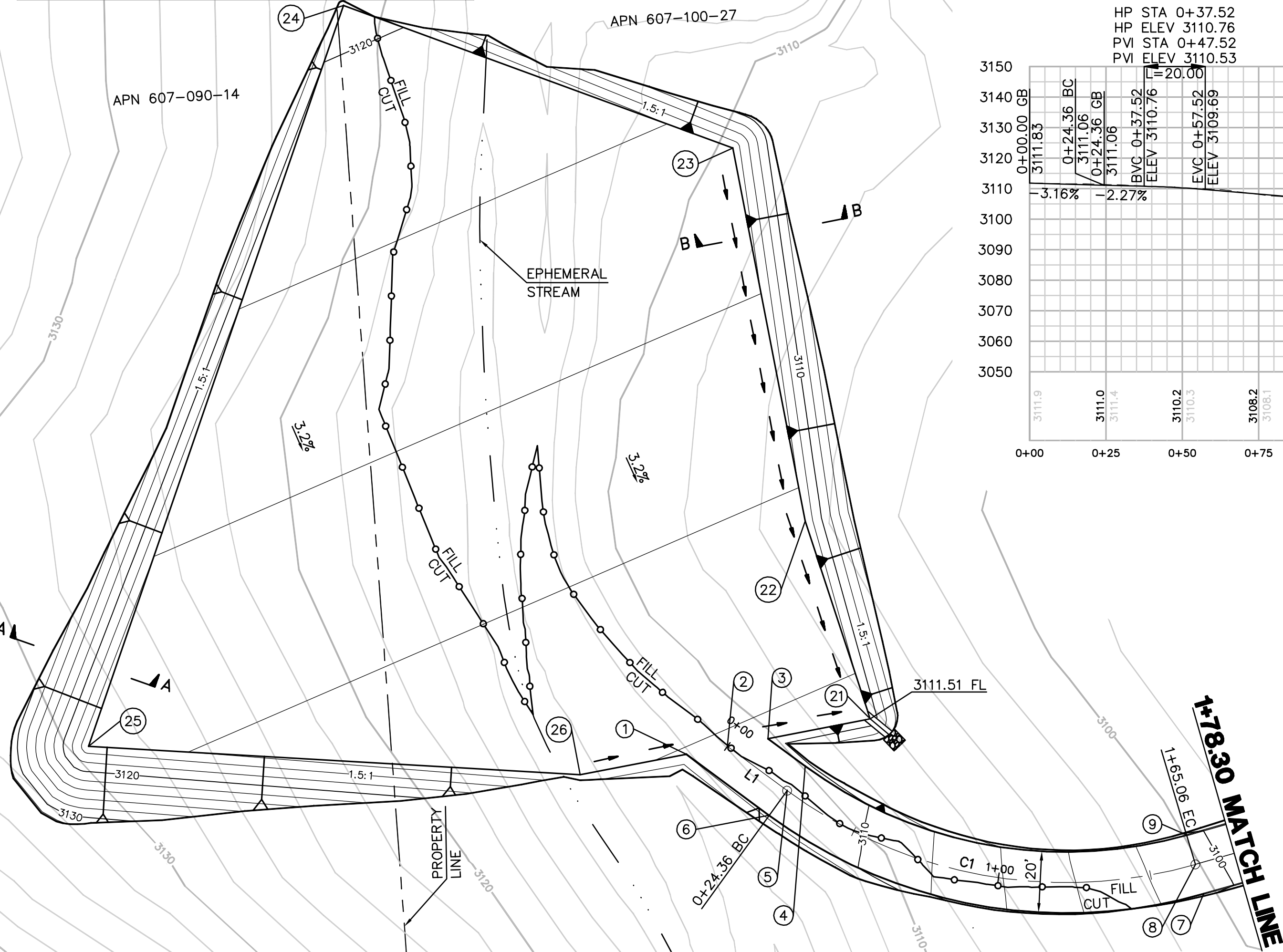
DISTURBED AREA: PULL SITE: 52,890 SF
ROAD: 22,904 SF
TOTAL: 75,794 SF

QUANTITIES:
RIP RAP: 75 SF
DOWN DRAIN: 10 LF

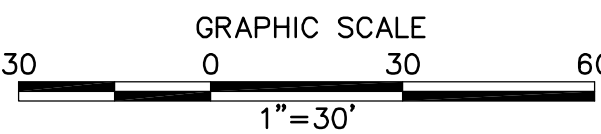
LENGTH OF ACCESS ROAD: 939 LF



1+78.30 MATCH LINE

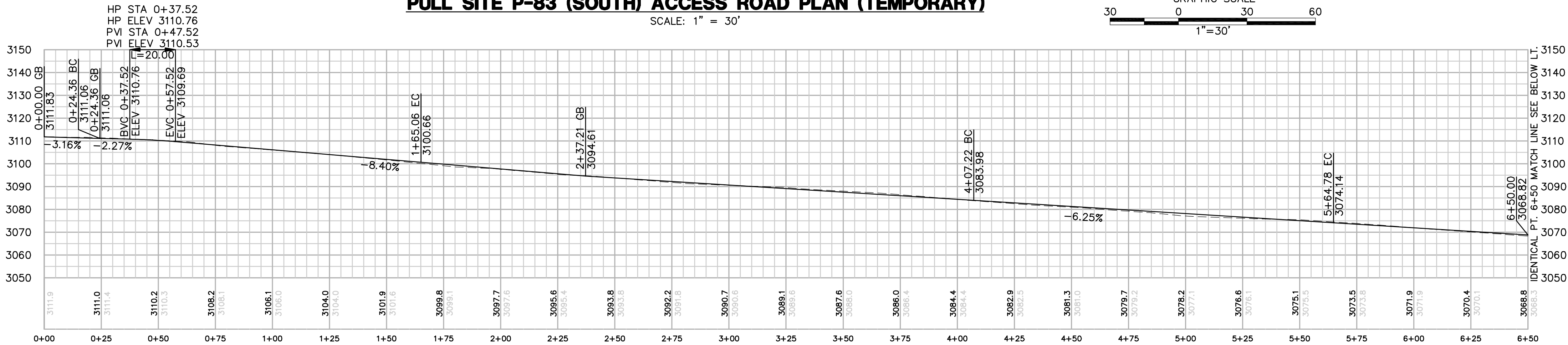
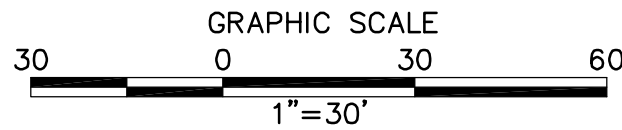


PULL SITE P-83 (SOUTH) PLAN (TEMPORARY)
SCALE: 1" = 30'



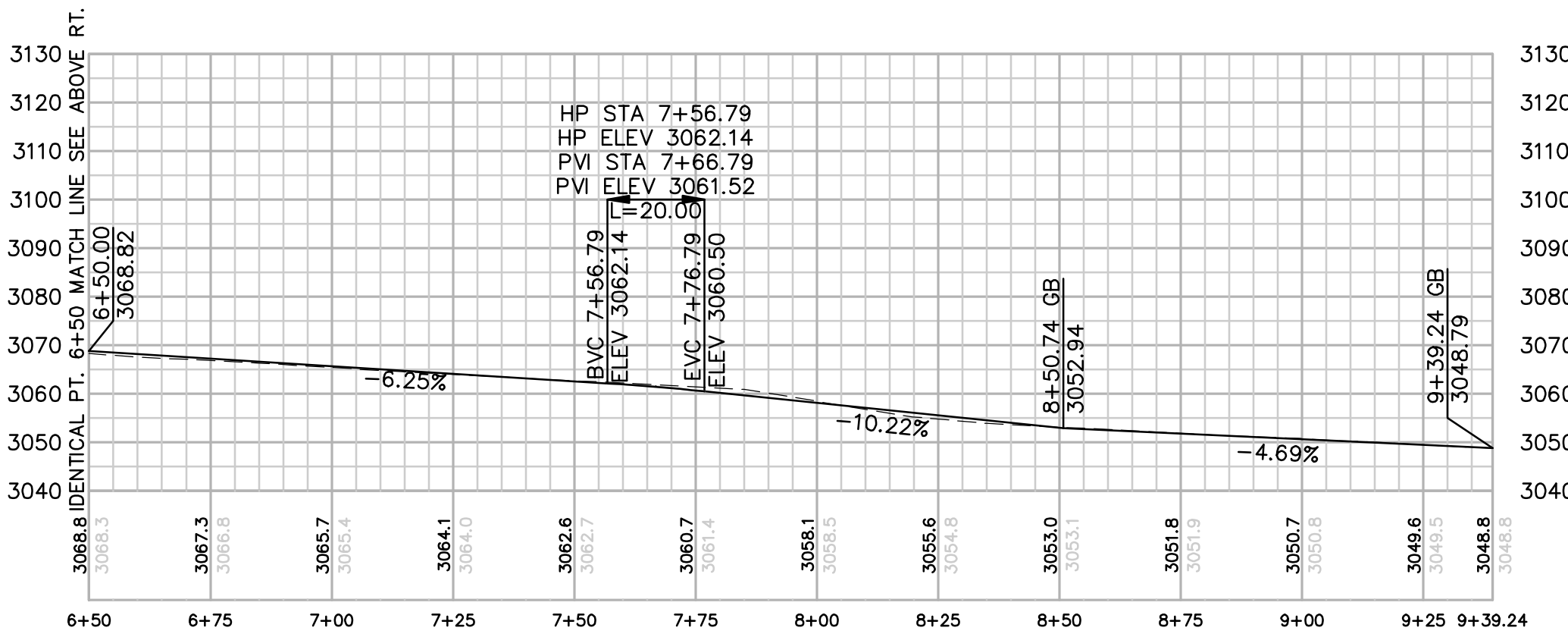
PULL SITE P-83 (SOUTH) ACCESS ROAD PLAN (TEMPORARY)

SCALE: 1" = 30'



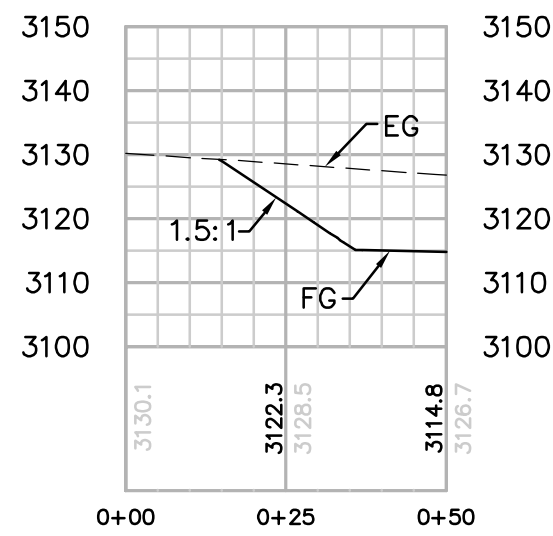
PULL SITE P-83 (SOUTH) ACCESS ROAD PROFILE

HORIZ. & VERT. SCALE: 1" = 30'



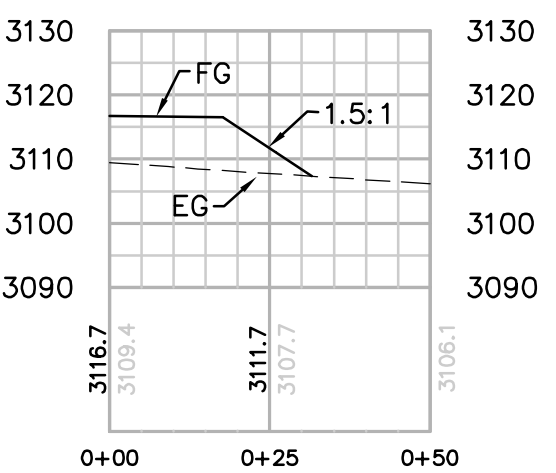
PULL SITE P-83 (SOUTH) ACCESS ROAD PROFILE

HORIZ. & VERT. SCALE: 1" = 30'



SECTION A-A

HORIZ. & VERT. SCALE: 1" = 30'



SECTION B-B

HORIZ. & VERT. SCALE: 1" = 30'

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-8D (LINK 2)
PULL SITE P-83 (SOUTH)

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

08D-P83-PS-A



Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com



SUNRISE POWERLINK PROJECT

SECTION 08D (LINK 2)

500kV LINE

GENERAL NOTES

1. A PERMIT SHALL BE OBTAINED FROM THE SAN DIEGO COUNTY DEPARTMENT OF PUBLIC WORKS FOR ANY WORK WITHIN THE COUNTY PUBLIC STREET RIGHT-OF-WAY.
2. THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARDS AND AS APPROVED BY THE COUNTY'S MATERIALS LABORATORY.
3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
4. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
5. ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS GUTTER AND PAVING.
6. ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS.
7. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
8. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES: SAN DIEGO GAS & ELECTRIC, PACIFIC BELL, CABLE TV, WATER DISTRICT, AND SANITATION DISTRICT.
9. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
10. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
11. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
12. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEPICTED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
13. POWER SOURCES AND RUNS SERVING STREET LIGHTS SHALL BE SHOWN ON THE "AS-BUILT " IMPROVEMENT DRAWINGS. ALL SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY, OR WITHIN EASEMENTS DEDICATED TO THE COUNTY OF SAN DIEGO.
14. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY; AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECIEVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS.
15. NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
16. PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. COUNTY OFFICIALS SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSIBILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE IMPROVEMENTS. (IF APPLICABLE)
17. FINISHED GRADING SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER AND INSPECTED BY THE COUNTY ENGINEER FOR DRAINAGE CLEARANCE.

CONTRACTOR'S NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD COUNTY OF SAN DIEGO HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF COUNTY OF SAN DIEGO PROFESSIONALS.

ENGINEER'S NOTE

UNAUTHORIZED CHANGES & USES: THE ENGINEER OF WORK PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

BASIS OF COORDINATES

THE BASIS OF COORDINATES OF THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, NAD 83 (1992). THE COORDINATES ARE DISPLAYED IN US SURVEY FEET. THE BASIS OF ELEVATIONS IS NAVD 88. ELEVATIONS ARE DISPLAYED IN US SURVEY FEET.

PLAN SHEET INDEX:

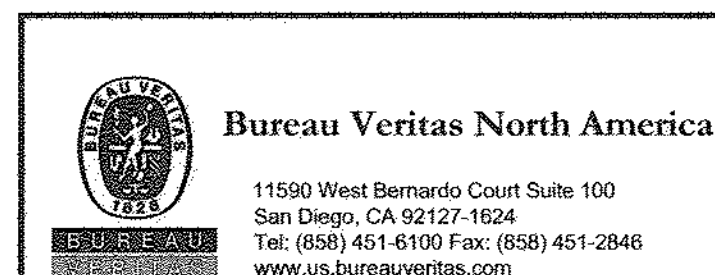
08D-DWY-01 TITLE SHEET
08D-DWY-02 CONSTRUCTION NOTES, DETAILS, ABBREVIATIONS, & LEGEND
08D-DWY-03 TRAFFIC CONTROL DETAILS
08D-DWY-04 PERMIT 8D-1&2

UNDERGROUND SERVICE ALERT



CALL:TOLL FREE
1-800
422-4133

"CAUTION": TWO WORKING DAYS BEFORE YOU DIG REMEMBER THAT THE USA CENTER NOTIFIES ONLY THOSE UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHOM THEY WILL NOTIFY. NOTIFIES ONLY THOSE UTILITIES BELONGING TO



LEGAL DESCRIPTION	LEGAL DESCRIPTION
ASSESSORS PARCEL NO. _____	ASSESSORS PARCEL NO. _____
RECORD PLAN	RECORD PLAN
NAME: _____	NAME: _____
R.C.E. _____	R.C.E. _____
DATE: _____	DATE: _____



NAME: STEPHEN K. SMITH
PHONE NO. (858) 451-6100
ADDRESS: 11590 W. BERNARDO CT.
SUITE 100
SAN DIEGO, CA 92127

PERMITS			
REZONE PERMIT NO. _____			
SPECIAL USE PERMIT NO. _____			
GRADING PERMIT NO. _____			
COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK	
NAME: H116	
LOCATION: N 1838891.823 E 6422319.031	
DESCRIPTION: USBM	
ELEVATION: 2442.400' DATUM: NAVD 88	
NAME: HOT SPRING	
LOCATION: N 1804471.890 E 6582919.609	
DESCRIPTION: USBM	
ELEVATION: 2799.320' DATUM: NAVD 88	
NAME: _____	
LOCATION: _____	
DESCRIPTION: _____	
ELEVATION: _____ DATUM: _____	

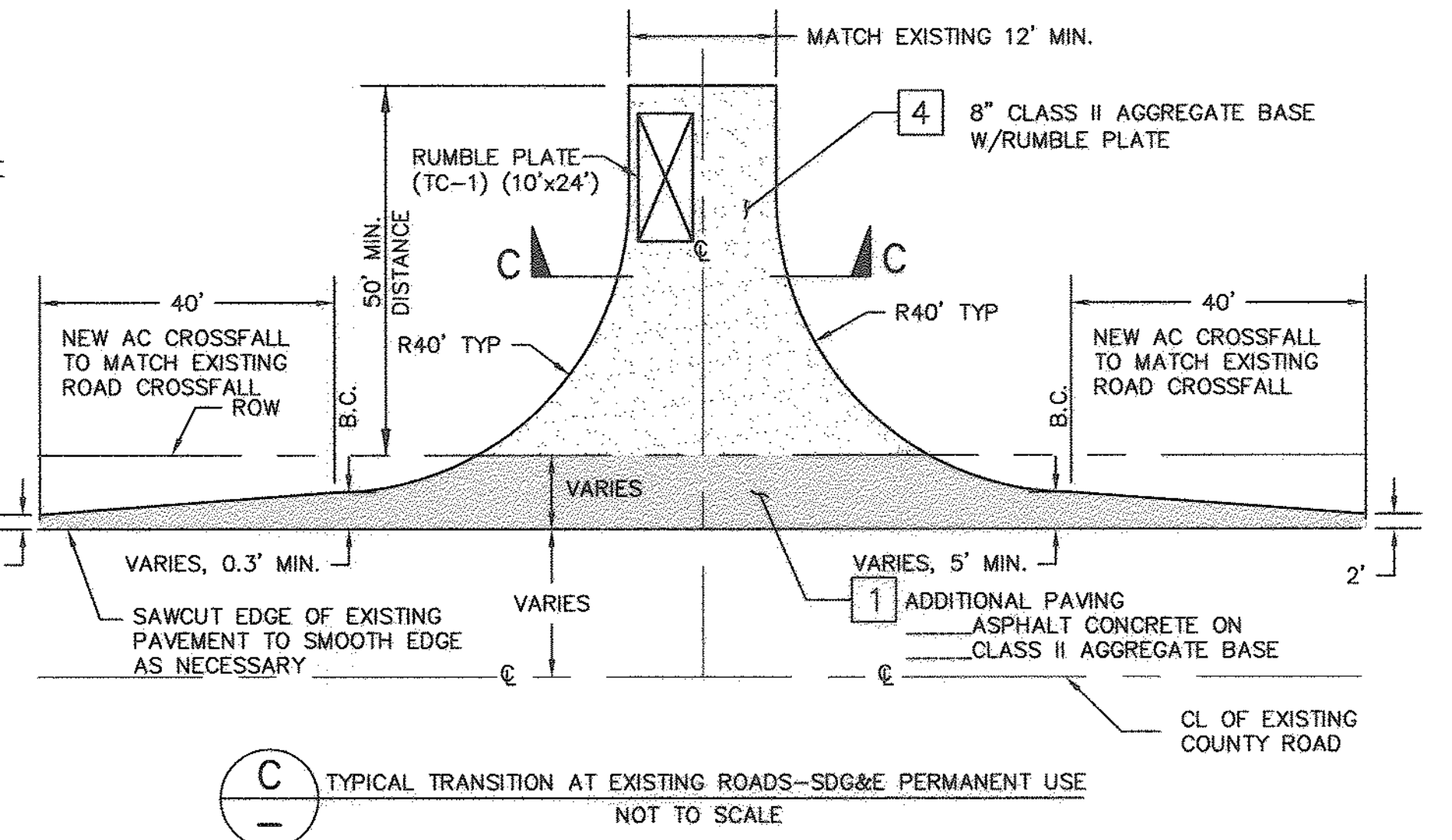
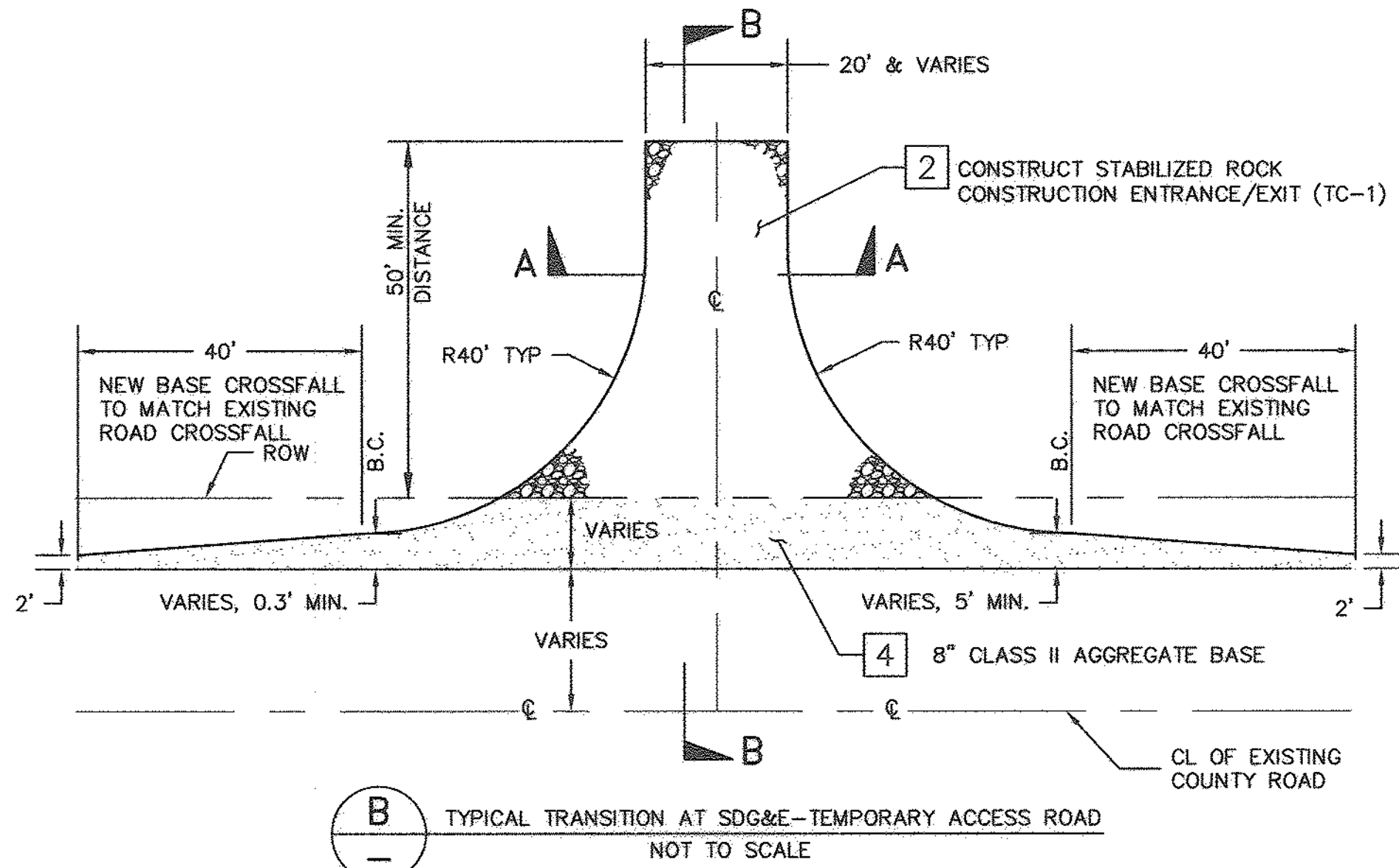
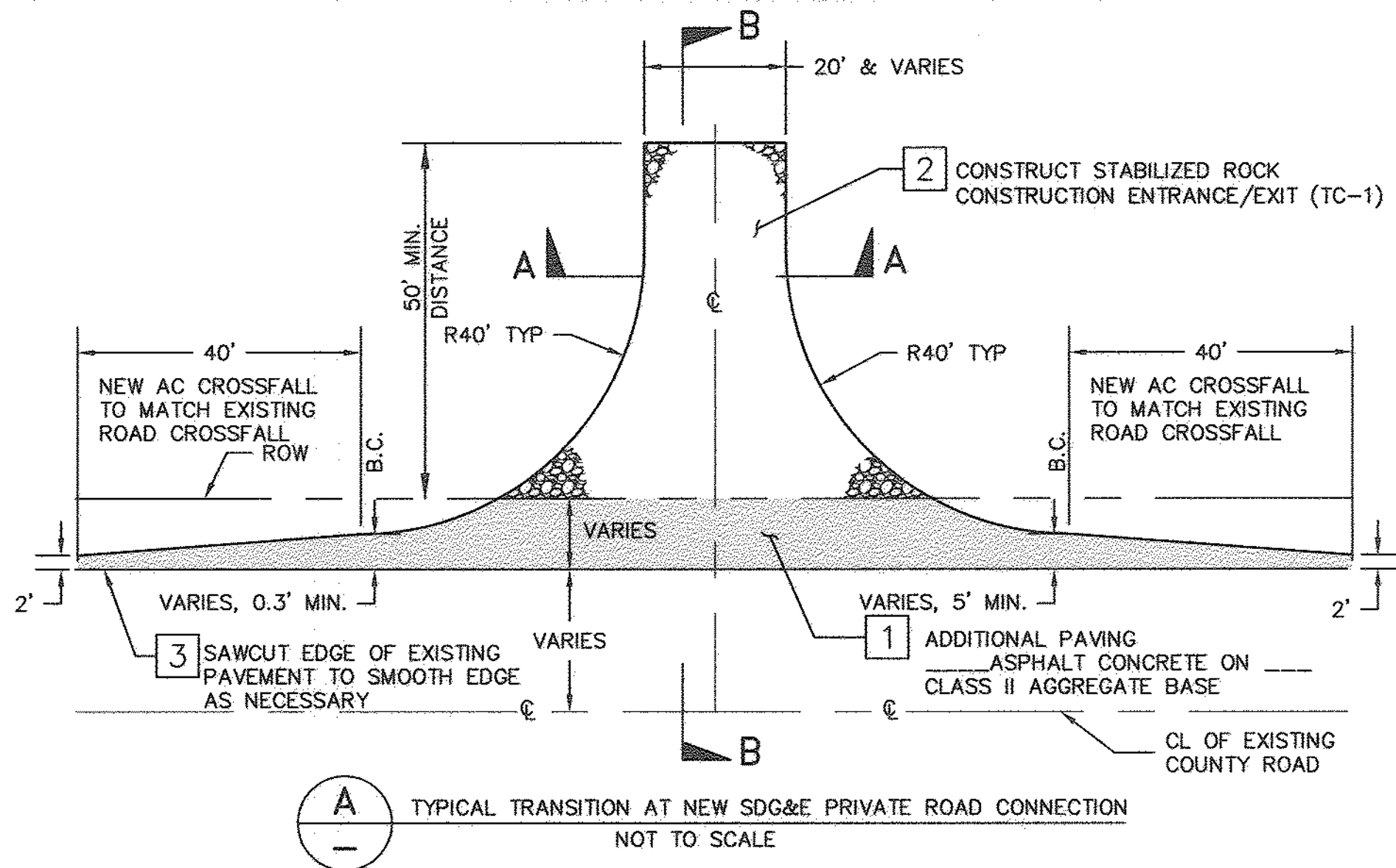
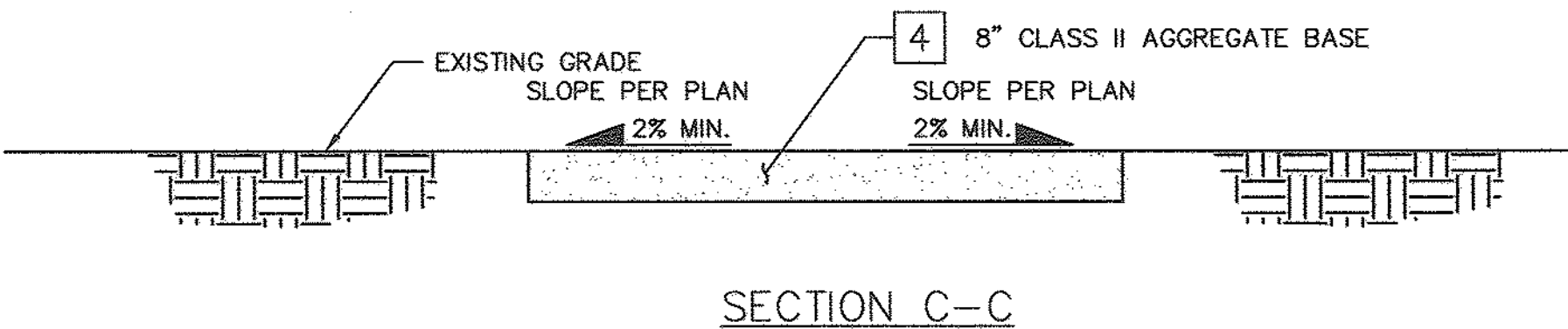
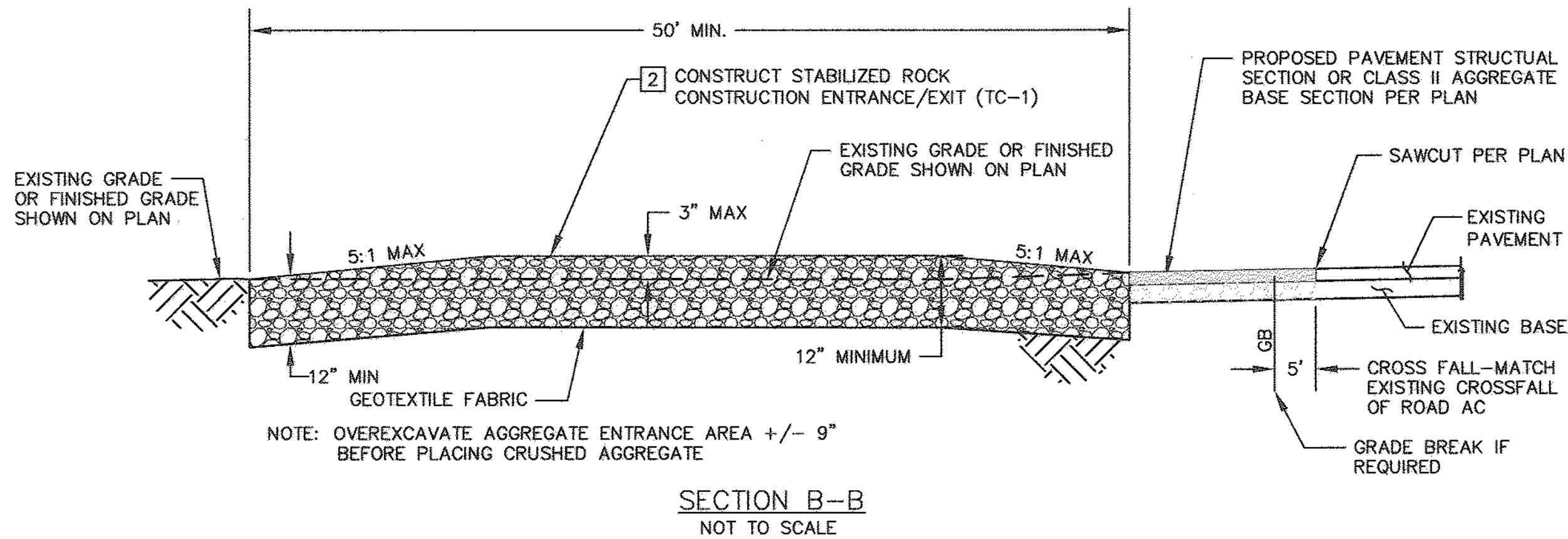
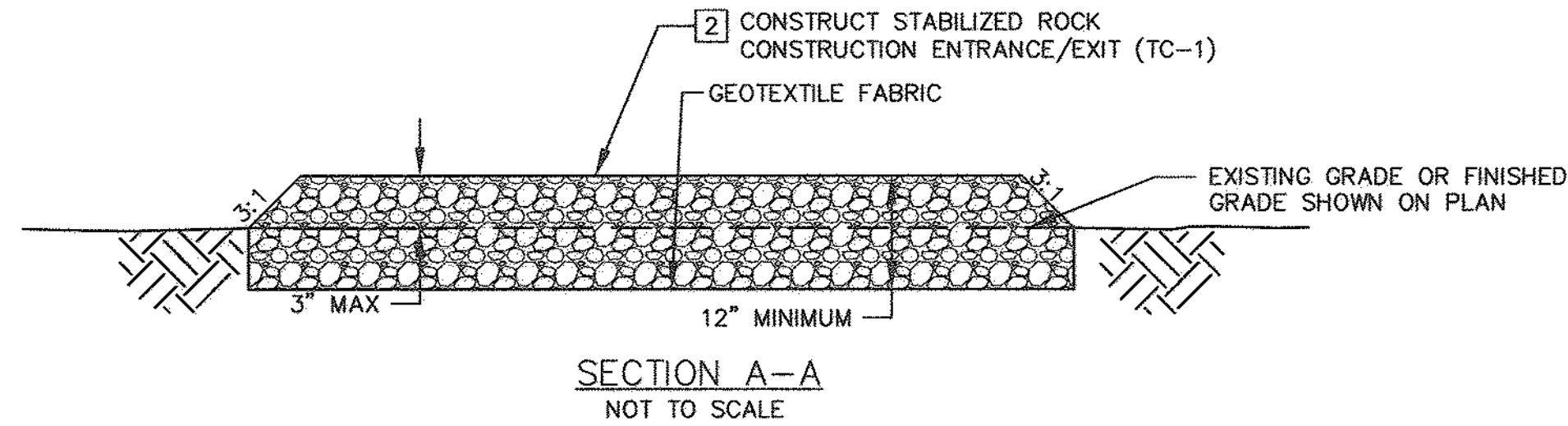
PRIVATE CONTRACT			
SHEET 1	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	4 SHEETS	
IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK PRIVATE ROADWAY / DRIVEWAY PLANS SECTION 8D IMPROVEMENTS TITLE SHEET			
ENGINEER OF WORK: STEPHEN K. SMITH R.C.E. 29708	CHECKED BY: _____ APPROVAL DATE: _____	IMPROVEMENT PLAN NO. _____	
SPL-8D (LINK 2)	08D-DWY-01		

CONSTRUCTION NOTE:

1. CONSTRUCT * ASPHALT CONCRETE OVER * CLASS II AGGREGATE BASE**
2. CONSTRUCT STABILIZED CONSTRUCTION APPROACH AT CONSTRUCTION ENTRANCE PER DETAILS ON SHEET 2.
3. SAWCUT AND JOIN EXISTING PAVEMENT
4. CONSTRUCT 8" CLASS II AGGREGATE BASE ROAD ENTRANCE, DETAILS ON SHEET 2.
5. INSTALL SIGN W11-10 (TRUCK) WITH W13-IP (XX MPH).
6. PROVIDE CONSTRUCTION TRAFFIC CONTROL AS APPROPRIATE TA-6, TA-10 OR TA-11 RESTORE TO TWO LANE OPERATION AT NIGHT WITH TA-1, TA-3 OR TA-6 AT NIGHT AS APPROPRIATE PER DETAIL ON SHEET 3
7. CONSTRUCT 6" AC BERM PER COUNTY STD G-5, TYPE A.
8. CONSTRUCT FENCE AND/OR GATE PER SDG&E.
9. CONSTRUCT 2" AC OVERLAY
10. CONSTRUCT 18" RCP 2000-D
11. CONSTRUCT STRAIGHT HEADWALL PER SDRSD D-30, TYPE A

NOTE:

1. * STRUCTURAL SECTION IS SHOWN ON PLANS
2. ** THE PAVEMENT STRUCTURAL SECTION SUBGRADE SHALL BE PREPARED AS FOLLOWS: 12 INCHES OF SUBGRADE SHALL BE REMOVED AND RECOMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557. IN ADDITION THE SUBGRADE SHOULD BE PROOF ROLLED TO ELIMINATE PUMPING OF SUBGRADE.
3. STABILIZED ROCK SHALL BE CRUSHED AGGREGATE GREATER THAN 3" BUT SMALLER THAN 6". COMPACT TO FILL VOID SPACES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
4. TC-1 PER STORM WATER BMP HAND BOOK. ROCK SHALL BE COMPACTED PER NOTE ABOVE.



ABBREVIATIONS

- AC ASPHALT CONCRETE PAVING
BW BOTTOM OF WALL AT FINISHED GROUND
CMP CORRUGATED METAL PIPE
D/S DOWN STREAM
(EG) EXISTING GRADE
FG FINISHED GRADE
FL FLOW LINE
GB GRADE BREAK
PP POWER POLE
RC RELATIVE COMPACTION
RD ROAD
TW TOP OF WALL
U/S UP STREAM
EA EACH
LS LUMP SUM

LEGEND

- PROPOSED ASPHALT
STABILIZED ROCK
CLASS II AGGREGATE BASE
SECTION
INDICATES NEW TOWER
INDICATES EXISTING STEEL POLE
NEW POWER LINE
RIGHT-OF-WAY LINE
DETAIL LABEL
TRAFFIC SIGN

WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS, THE DEPARTMENT OF PUBLIC WORKS (DPW) FOR THE COUNTY OF SAN DIEGO ACKNOWLEDGES THAT SAN DIEGO GAS & ELECTRIC (SDG&E) HAS CONSULTED WITH DPW REGARDING THOSE LAND USE MATTERS WITHIN SCOPE OF DPW'S REVIEW AUTHORITY IN THE MANNER REQUIRED BY SECTION XIV(B) OF CALIFORNIA PUBLIC UTILITIES COMMISSION GENERAL ORDER 131-D, DECISION 94-06-14 AS MODIFIED BY DECISION 95-08-038.

FOR DIRECTOR OF PUBLIC WORKS DATE



LEGAL DESCRIPTION	LEGAL DESCRIPTION
ASSESSORS PARCEL NO. _____	ASSESSORS PARCEL NO. _____
RECORD PLAN	RECORD PLAN
NAME: _____	NAME: _____
R.C.E. _____	R.C.E. _____
DATE: _____	DATE: _____

LEGAL DESCRIPTION	LEGAL DESCRIPTION
ASSESSORS PARCEL NO. _____	ASSESSORS PARCEL NO. _____
RECORD PLAN	RECORD PLAN
NAME: _____	NAME: _____
R.C.E. _____	R.C.E. _____
DATE: _____	DATE: _____

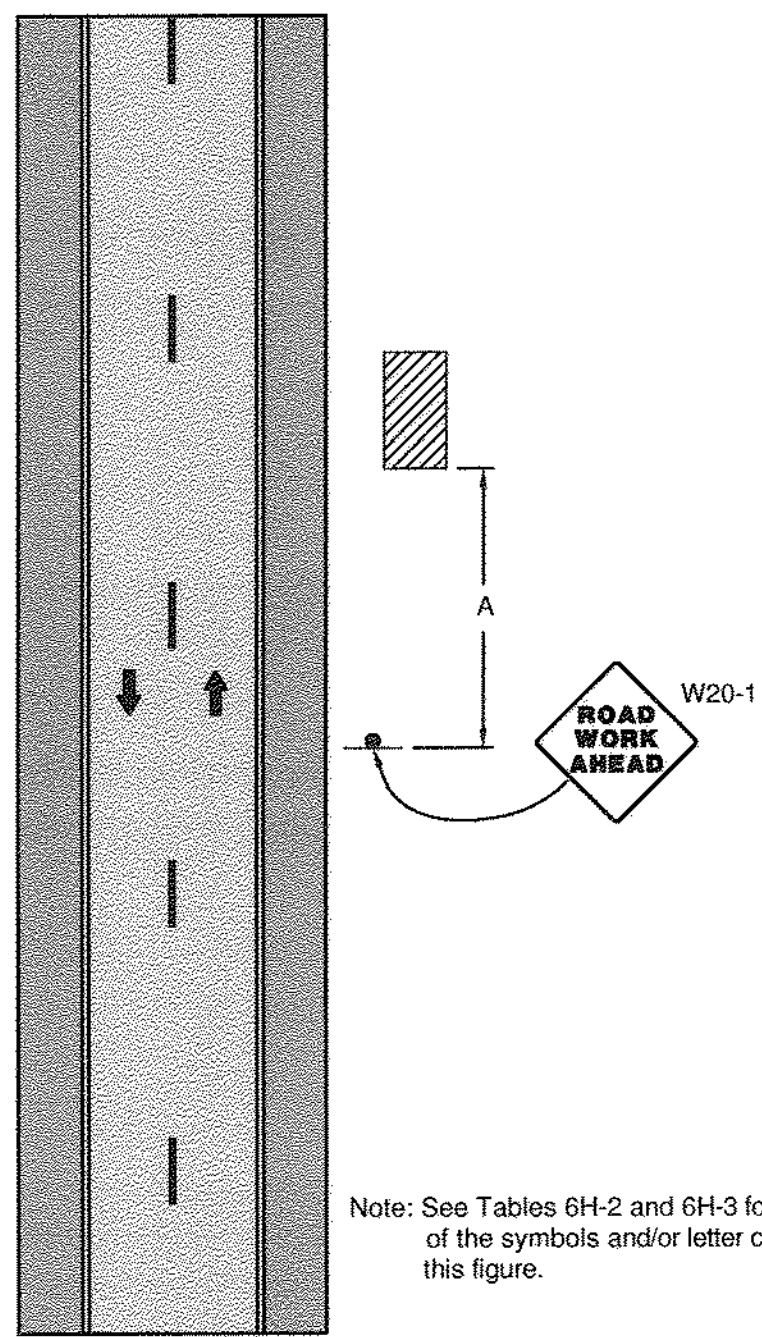
ENGINEER OF WORK	PERMITS
NAME: STEPHEN K. SMITH	REZONE PERMIT NO. _____
PHONE NO. (858) 451-6100	SPECIAL USE PERMIT NO. _____
ADDRESS: 11590 W. BERNARDO CT.	GRADING PERMIT NO. _____
SUITE 100	
SAN DIEGO, CA 92127	

COUNTY APPROVED CHANGES
NO. _____ DESCRIPTION _____ APPROVED BY _____ DATE _____

BENCH MARK
NAME: H116
LOCATION: N 1838891.823 E 6422319.031
DESCRIPTION: USBM
ELEVATION: 2442.400' DATUM: NAVD 88
NAME: HOT SPRING
LOCATION: N 1804471.890 E 6582919.609
DESCRIPTION: USBM
ELEVATION: 2799.320' DATUM: NAVD 88
NAME: _____
LOCATION: _____
DESCRIPTION: _____
ELEVATION: _____ DATUM: _____

PRIVATE CONTRACT
SHEET 2 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 4 SHEETS
IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK
CONSTRUCTION NOTES, DETAILS, ABBREVIATIONS, AND LEGEND
OWNER OF WORK: STEPHEN K. SMITH CHECKED BY: _____ RECD: 2/2/08 APPROVAL DATE: _____ IMPROVEMENT PLAN NO. _____
SPL-8D (LINK 2) 08D-DWY-02

FIGURE 6H-1. WORK BEYOND THE SHOULDER (TA-1)



Notes for Figure 6H-1—Typical Application 1
Work Beyond the Shoulder

Guidance:

1. If the work space is in the median of a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.
- Option:
 1. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
 2. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 24 inches behind the curb, or 15 feet or more from the edge of any roadway.
 3. For short-term, short duration or mobile operation, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
 4. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

	Arrow board		Shadow vehicle
	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or support trailer		Surveyor
	Channelizing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour		Traffic or pedestrian signal
	Direction of traffic		Truck-mounted attenuator
	Flagger		Type 3 barricade
	High-level warning device (Flag tree)		Warning light
	Longitudinal channelizing device		Work space
	Luminaires		Work vehicle
	Pavement markings that should be removed for a long-term project		

Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)	100 feet	100 feet	100 feet
Urban (high speed)	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

* Speed category to be determined by highway agency

** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-4. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "last sign" is the sign that is furthest upstream from the TTC zone.)

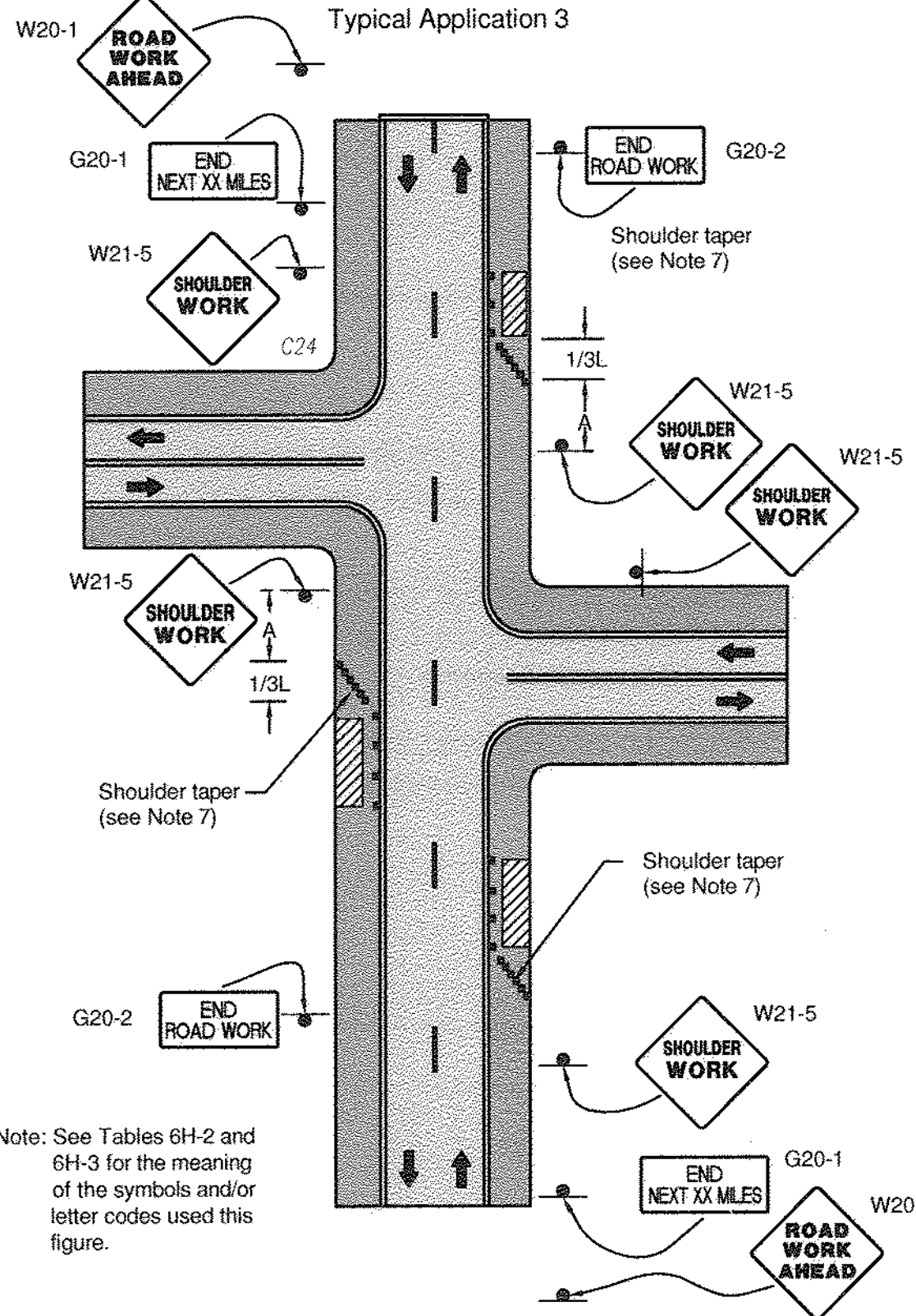
Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet
40 mph or less	L = WS
45 mph or more	L = WS

Where: L = taper length in feet

W = width of offset in feet
S = posted speed limit, or off-peak 85th percentile speed prior to work starting, or the anticipated operating speed in mph

FIGURE 6H-3. WORK ON THE SHOULDERS (TA-3)



Notes for Figure 6H-3—Typical Application 3
Work on the Shoulders

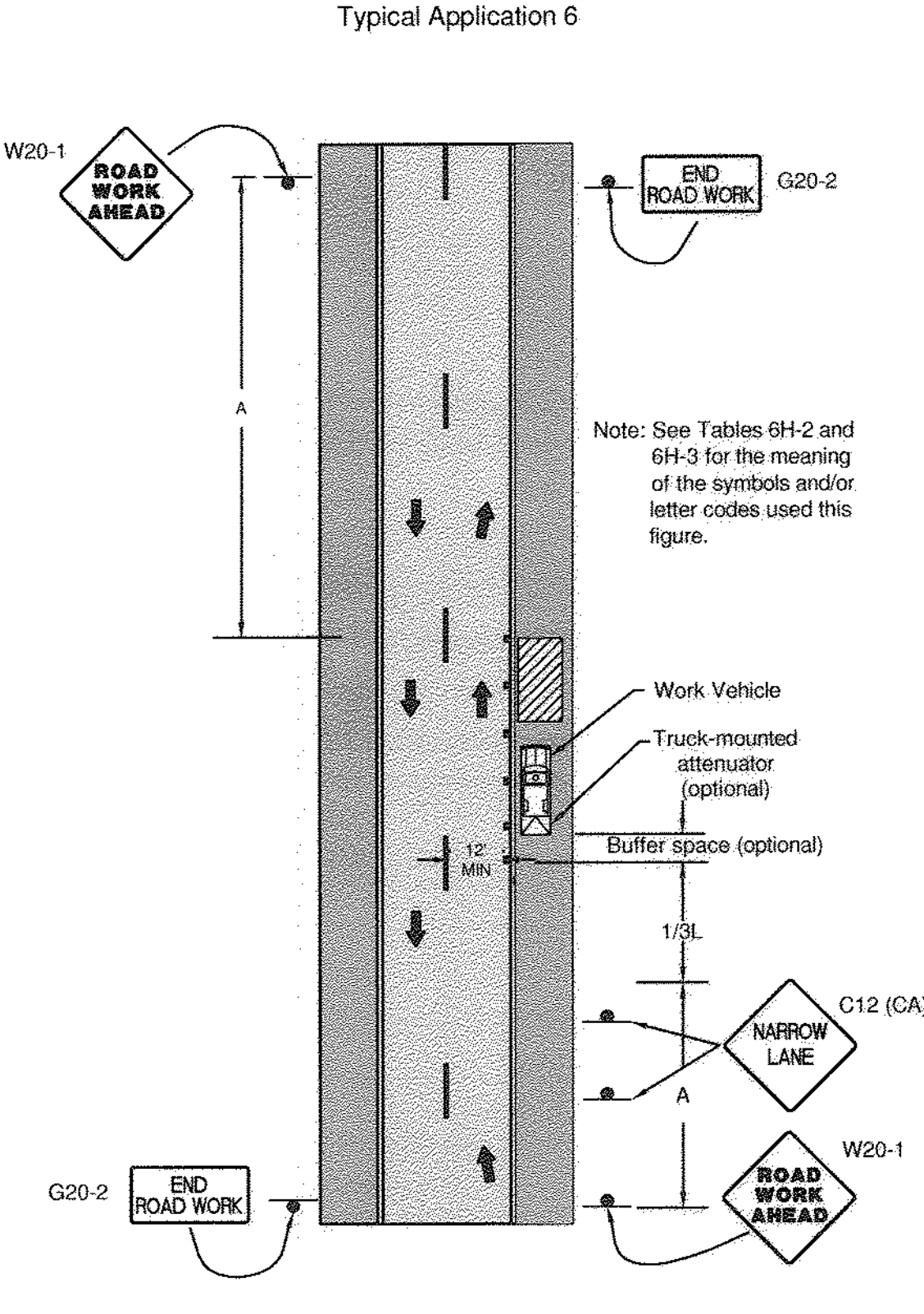
Guidance:

1. A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.
- Option:
 1. The Workers symbol signs may be used instead of SHOULDER WORK signs.
 2. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
 3. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
 4. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.
7. When paved shoulders having a width of 8 feet or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.

FIGURE 6H-6. SHOULDER WORK WITH MINOR ENCROACHMENT (TA-6)



Notes for Figure 6H-6—Typical Application 6
Shoulder Work with Minor Encroachment

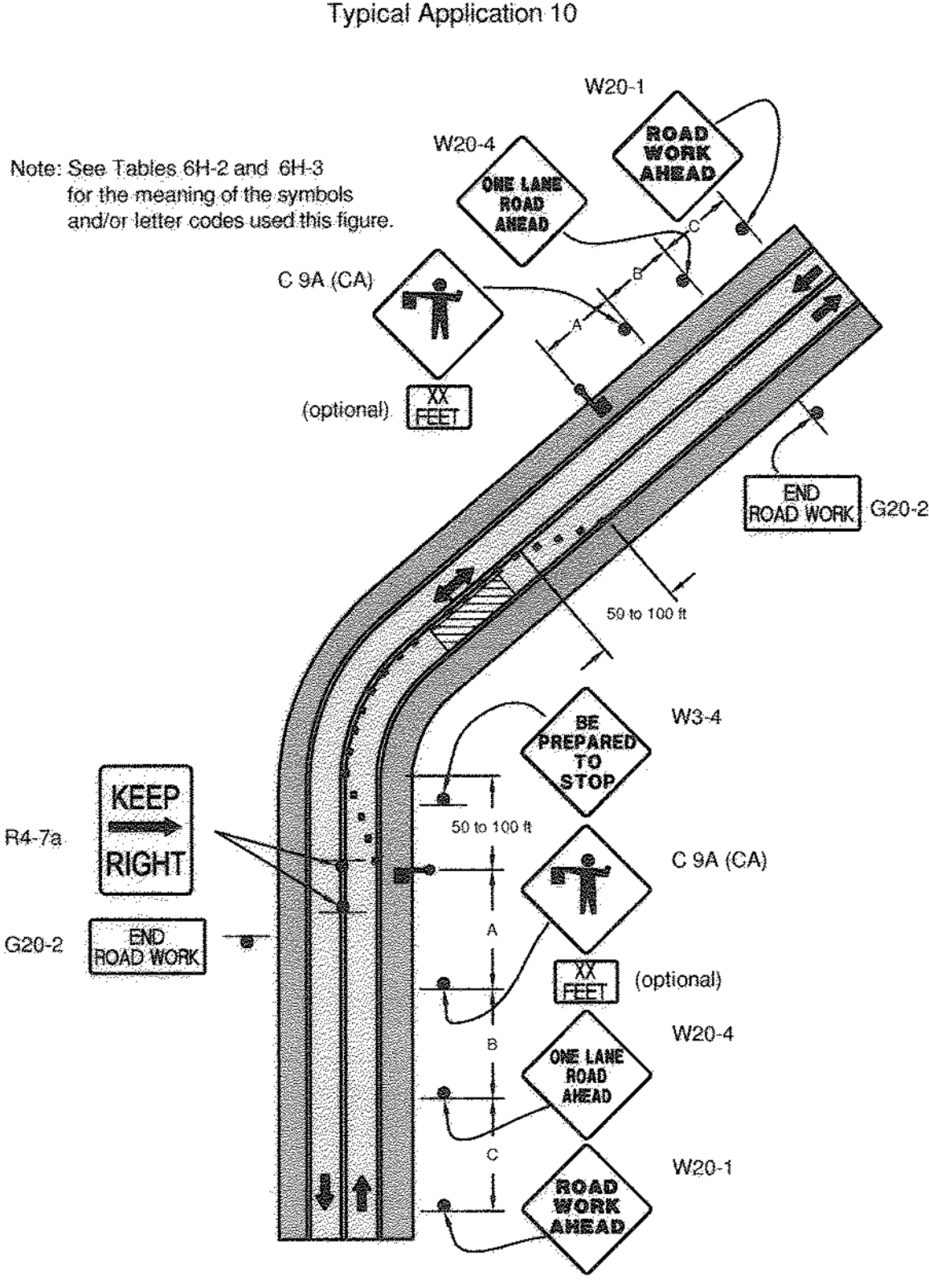
Guidance:

1. All lanes should be a minimum of 10 feet in width as measured to the rear face of the channelizing devices.
2. The treatment shown should be used on a minor road having low speeds. For higher-speed traffic conditions, a lane closure should be used.
- Option:
 1. For short-term use on low-volume, low-speed roadways with vehicular traffic that does not include longer and wider heavy commercial vehicles, a minimum lane width of 9 feet may be used.
 2. Where the opposite shoulder is suitable for carrying vehicular traffic and of adequate width, lanes may be shifted by use of closely-spaced channelizing devices, provided that the minimum lane width of 10 feet is maintained.
 3. Additional advance warning may be appropriate, such as a ROAD NARROWS sign.
 4. Temporary traffic barriers may be used along the work space.
 5. The shadow vehicle may be omitted if a taper and channelizing devices are used.
 6. A truck-mounted attenuator may be used on the shadow vehicle.
 7. For short-duration work, the taper and channelizing devices may be omitted if a shadow vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
 8. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

11. Vehicle-mounted signs shall be mounted in a manner such that they are not obscured by equipment or supplies. Sign legends on vehicle-mounted signs shall be covered or turned from view when work is not in progress.
12. Shadow and work vehicles shall display high-intensity rotating, flashing, oscillating, or strobe lights.
13. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

FIGURE 6H-10. LANE CLOSURE ON A TWO-LANE ROAD USING FLAGGERS (TA-10)



Notes for Figure 6H-10—Typical Application 10
Lane Closure on a Two-Lane Road Using Flaggers

Option:

1. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs. A BE PREPARED TO STOP sign may be added to the sign series.

Guidance:

4. The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.

Standard:

5. At night, flagger stations shall be illuminated, except in emergencies.

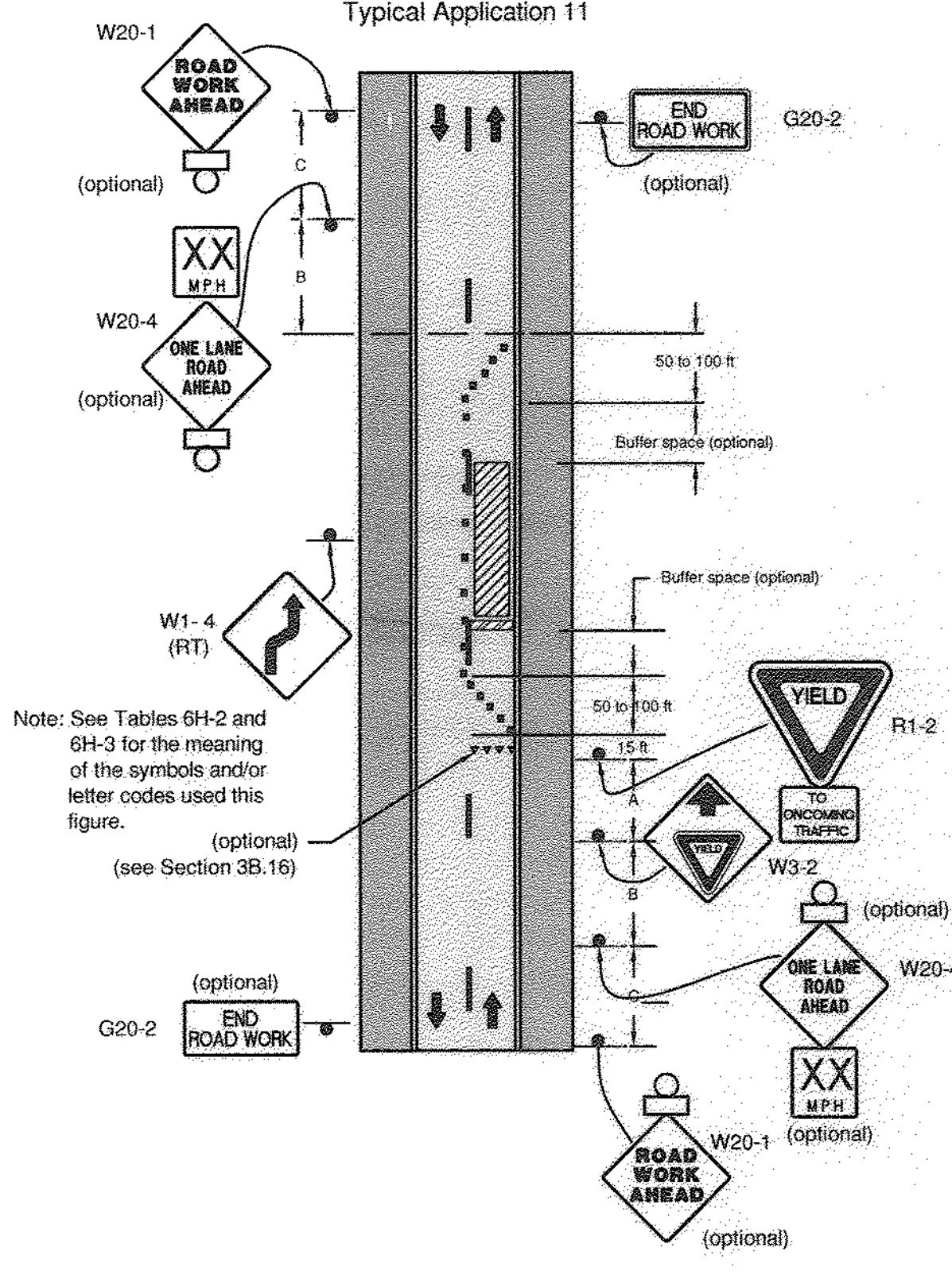
Guidance:

6. When used, the BE PREPARED TO STOP sign should be located between the Flagger sign and the ONE LANE ROAD sign.
7. When a grade crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the grade crossing, the TTC zone should be extended so that the transition area precedes the grade crossing.
8. When a grade crossing equipped with active warning devices exists within the activity area, provisions should be made for keeping flaggers informed as to the activation status of these warning devices.
9. When a grade crossing exists within the activity area, drivers operating on the left-hand side of the normal center line should be provided with comparable warning devices as for drivers operating on the right-hand side of the normal center line.
10. Early coordination with the railroad company or light rail transit agency should occur before work starts.

Option:

11. A flagger or a uniformed law enforcement officer may be used at the grade crossing to minimize the probability that vehicles are stopped within 15 feet of the grade crossing, measured from both sides of the outside rails.

FIGURE 6H-11. LANE CLOSURE ON A TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES (TA-11)



Notes for Figure 6H-11—Typical Application 11
Lane Closure on a Two-Lane Road with Low Traffic Volumes

Option:

1. This TTC zone application may be used as an alternate to the TTC application shown in Figure 6H-10 (using flaggers) when the following conditions exist:
 - a. Vehicular traffic volume is such that sufficient gaps exist for vehicular traffic that must yield.
 - b. Road users from both directions are able to see approaching vehicular traffic through and beyond the work site and have sufficient visibility of approaching vehicles.
2. The Type B flashing warning lights may be placed on the ROAD WORK AHEAD and the ONE LANE ROAD AHEAD signs whenever a night lane closure is necessary.

NOTE: TRAFFIC CONTROL PER ATTACHED TYPICAL APPLICATIONS (AASHTO) IS FOR DRIVEWAY/PRIVATE ROAD CONSTRUCTION IN COUNTY RIGHT-OF-WAY

WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS, THE DEPARTMENT OF PUBLIC WORKS (DPW) FOR THE COUNTY OF SAN DIEGO ACKNOWLEDGES THAT SAN DIEGO GAS & ELECTRIC (SDG&E) HAS CONSULTED WITH DPW REGARDING THOSE LAND USE MATTERS WITHIN SCOPE OF DPW'S REVIEW AUTHORITY IN THE MANNER REQUIRED BY SECTION XIV(B) OF CALIFORNIA PUBLIC UTILITIES COMMISSION, GENERAL ORDER 131-D, DECISION 94-06-14 AS MODIFIED BY DECISION 95-08-038.

FOR DIRECTOR OF PUBLIC WORKS

DATE

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1824
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

LEGAL DESCRIPTION	LEGAL DESCRIPTION
ASSESSORS PARCEL NO. _____	ASSESSORS PARCEL NO. _____
RECORD PLAN	RECORD PLAN
NAME: _____	NAME: _____
R.C.E.: _____	R.C.E.: _____
DATE: _____	DATE: _____

ENGINEER OF WORK
NAME: STEPHEN K. SMITH
PHONE NO. (658) 451-6100
ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA 92127

PERMITS
REZONE PERMIT NO. _____
SPECIAL USE PERMIT NO. _____
GRADING PERMIT NO. _____
COUNTY APPROVED CHANGES
NO. _____ DESCRIPTION _____ APPROVED BY _____ DATE _____

BENCH MARK
NAME: H116 LOCATION: N 1838891.823 E 6422319.031 DESCRIPTION: USBM ELEVATION: 2442.400' DATUM: NAVD 88
NAME: HOT SPRING LOCATION: N 1804471.890 E 6582919.609 DESCRIPTION: USBM ELEVATION: 2799.320' DATUM: NAVD 88
NAME: _____ LOCATION: _____ DESCRIPTION: _____ ELEVATION: _____ DATUM: _____

PRIVATE CONTRACT
SHEET 3 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 4 SHEETS
IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK
TRAFFIC CONTROL DETAILS
ENGINEER OF WORK: STEPHEN K. SMITH R.E. 22708
CHECKED BY: _____ APPROVAL DATE: _____ IMPROVEMENT PLAN NO. _____
SPL-8D (LINK 2) 08D-DWY-03

p:\16919_sdg&e_spl\agency permit list\exhibits\cadd\8d\plan\4-8d-1&2.dwg 7/1/2010 9:06 AM

QUANTITIES:

1	PAVEMENT SECTION:	2000 SF
3	SAWCUT:	185 LF
4	AGGREGATE BASE:	1040 SF
5	SIGN:	1 EA
6	TRAFFIC CONTROL:	LS

ACCESS TO P85-2 (PERMIT 8D-1)

SCALE: 1"=30'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1820190.55	6484923.37		EG
2	1820188.93	6484922.19		EG
3	1820125.17	6484986.57		EG
4	1820042.51	6485029.45		EG
5	1820043.16	6485031.34		EG
6	1820081.37	6485019.63		BC/EC
7	1820098.00	6485056.01		RP
8	1820137.97	6485054.51		EC/EG
9	1820150.53	6485049.54		EG
10	1820151.45	6485001.78		EG
11	1820156.19	6484979.02		EC/EG
12	1820195.94	6484983.47		RP
13	1820172.01	6484950.64		EG/BC

CONSTRUCTION NOTE:

- CONSTRUCT 3" ASPHALT CONCRETE OVER 8" CLASS II AGGREGATE BASE
- CONSTRUCT STABILIZED CONSTRUCTION APPROACH AT CONSTRUCTION ENTRANCE PER DETAILS ON SHEET 2.
- SAWCUT AND JOIN EXISTING PAVEMENT
- CONSTRUCT 8" CLASS II AGGREGATE BASE ROAD ENTRANCE, DETAILS ON SHEET 2.
- INSTALL SIGN W11-10 (TRUCK) WITH W13-1P (XX MPH).

QUANTITIES:

1	PAVEMENT SECTION:	1736 SF
3	SAWCUT:	222 LF
4	AGGREGATE BASE:	1747 SF
6	TRAFFIC CONTROL:	LS

ACCESS TO BARTLET/HAUSER CREEK YARD (PERMIT 8D-2)

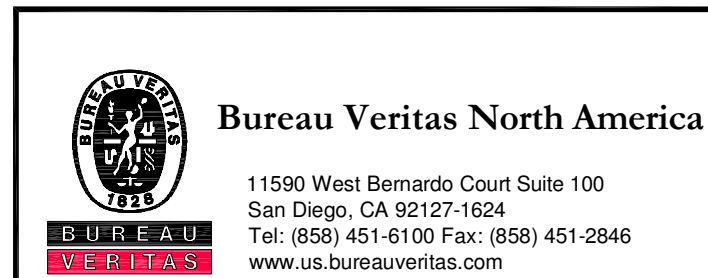
SCALE: 1"=30'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
14	1820239.24	6484435.68		EG
15	1820263.24	6484367.93		EG
16	1820280.89	6484335.77		BC/EG
17	1820265.39	6484319.17		RP
18	1820244.82	6484328.80		EC/EG
19	1820233.52	6484304.80		EG
20	1820218.96	6484311.65		EG
21	1820241.99	6484358.41		EC/EG
22	1820208.49	6484382.79		RP
23	1820246.16	6484396.24		BC/EG
24	1820237.30	6484435.18		EG
25	1820443.72	6484181.61		EG

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
26	1820467.38	6484181.66		EC/EG
27	1820471.85	6484196.23		EG/BC
28	1820506.48	6484187.95		EG
29	1820583.06	6484177.56		EG
30	1820582.86	6484175.54		EG
31	1820542.89	6484177.08		BC/EG
32	1820541.35	6484137.11		RP
33	1820525.00	6484174.98		EC/EG
34	1820506.58	6484171.99		EG
35	1820473.63	6484167.69		EG
36	1820442.72	6484167.46		EG

INSPECTIONS
TO REQUEST AN INSPECTION, CALL PRIVATE DEVELOPMENT CONSTRUCTION INSPECTION DURING NORMAL BUSINESS HOURS AT (858) 694-3165 AT LEAST 24 HOURS BEFORE START AND FINISH OF WORK. WHEN CALLING FOR AN INSPECTION, REFER TO THE COMPUTER GENERATED TRAFFIC PERMIT NUMBER AND THE JOB SITE ADDRESS OF YOUR SITE. IN MOST CASES, CONSTRUCTION INSPECTION REQUIRES ONE (1) WORKING DAY NOTICE FOR INSPECTIONS. WE MAY NOT BE ABLE TO PROVIDE NEXT DAY INSPECTIONS IN SOME OF THE MORE REMOTE AREAS OF THE COUNTY OF SAN DIEGO. PLEASE VERIFY WITH THE PERSON TAKING THE INSPECTION REQUEST WHAT DAY THE INSPECTOR WILL BE OUT TO THE SITE.

FOR DIRECTOR OF PUBLIC WORKS _____ DATE _____



LEGAL DESCRIPTION	LEGAL DESCRIPTION
607-100-28 & 607-021-05 ASSESSORS PARCEL NO.	607-021-02 ASSESSORS PARCEL NO.
RECORD PLAN	RECORD PLAN
NAME: _____	NAME: _____
R.C.E. _____	R.C.E. _____
DATE: _____	DATE: _____



NAME: STEPHEN K. SMITH
PHONE NO. (858) 451-6100
ADDRESS: 11590 W. BERNARDO CT.
SUITE 100
SAN DIEGO, CA 92127

PERMITS			
REZONE PERMIT NO. _____			
SPECIAL USE PERMIT NO. _____			
GRADING PERMIT NO. _____			
COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK	
NAME: H116	
LOCATION: N 1838891.823 E 6422319.031	
DESCRIPTION: USBM	
ELEVATION: 2442.400' DATUM: NAVD 88	
NAME: HOT SPRING	
LOCATION: N 1804471.890 E 6582919.609	
DESCRIPTION: USBM	
ELEVATION: 2799.320' DATUM: NAVD 88	
NAME: _____	
LOCATION: _____	
DESCRIPTION: _____	
ELEVATION: _____ DATUM: _____	

PRIVATE CONTRACT		
SHEET 4	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	4 SHEETS
IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK ACCESS ROAD IMPROVEMENTS ON LAKE MORENA BLVD. PERMIT 8D-1 & 8D-2		
ENGINEER OF WORK: STEPHEN K. SMITH R.C.E. 29706	CHECKED BY: _____ APPROVAL DATE: _____	IMPROVEMENT PLAN NO. _____
SPL-8D (LINK 2)	08D-DWY-04	