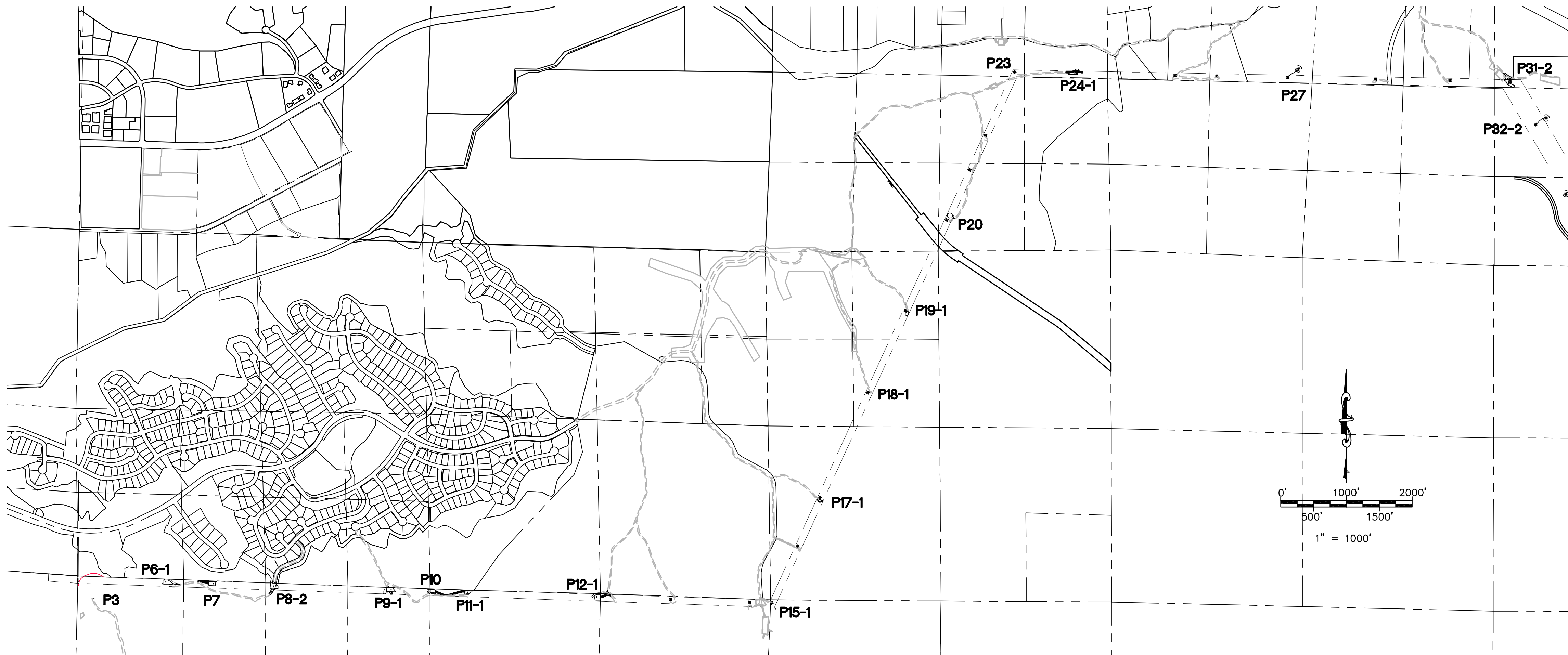


SUNRISE POWERLINK PROJECT
SECTION 04A (LINK 5)
230kV LINE



OFF-SITE WORK TO BE DONE

SITE / ACCESS ROAD

KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

SHEET NUMBER

04A-P1-P11-1-KEY01
04A-P12-1-P19-1-KEY02
04A-P20-P26-KEY03
04A-P27-P32-2-KEY04

ON-SITE WORK TO BE DONE

SITE / ACCESS ROAD

SITE P-6-1
SITE P-6-1 WALL PLAN
SITE P-7
SITE P-7 WALL PLAN
SITE P-8-2
SITE P-8-2 WALL PLAN
SITE P-9-1
SITE P-10
SITE P-10 WALL PLAN
SITE P-10 WALL PLAN
SITE P-11-1
SITE P-11-1 WALL PLAN
SITE P-11-1 WALL PLAN
SITE P-12-1
SITE P-17-1
SITE P-18-1
SITE P-19-1
SITE P-20
SITE P-24-1
SITE P-31-2

SHEET NUMBER

04A-P6-1-S1
04A-P6-1-W1
04A-P7-S1
04A-P7-W1
04A-P8-2-S1
04A-P8-2-W1
04A-P9-1-S1
04A-P10-S1
04A-P10-W1
04A-P10-W2
04A-P11-1-S1
04A-P11-1-W1
04A-P11-1-W2
04A-P12-1-S1
04A-P17-1-P20
04A-P17-1-P20
04A-P17-1-P20
04A-P24-1-S1
04A-P31-2-S1

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

SITE / ACCESS ROAD

SITE P-27
SITE P-32-2

SHEET NUMBER

04A-P27-TSAP
04A-P32-2-TSAP

PULL-SITE WORK TO BE DONE

SITE / ACCESS ROAD

PULL SITE P-2 & P-3
PULL SITE P-15-1 (NORTH) & (SOUTH)
PULL SITE P-23 (NORTH) & (SOUTH)
PULL SITE P-31-2 (WEST)
PULL SITE P-31-2 (EAST)

SHEET NUMBER

04A-P2 & P3-PS
04A-P15-1-PS-A&B
04A-P23-PS-A&B
04A-P31-2-PS-A
04A-P31-2-PS-B

PRIVATE ROADWAY / DRIVEWAY PLANS

SITE / ACCESS ROAD

TITLE SHEET
NOTES & DETAILS
TRAFFIC CONTROL DETAILS
PERMIT 4A-1

SHEET NUMBER

04A-DWY-01
04A-DWY-02
04A-DWY-03
04A-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:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-04A (LINK 5)
TITLE SHEET

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CAD NO.:	PLOT SCALE:	1" = 1'		

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P:\16919 SD&E SPL\CADD\04A\dwg\plan\04A-CVR02GNT.dwg,Mo-y-19-2010:15:44

GENERAL NOTES

- THE FOLLOWNG 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 $\frac{5}{3}$
	BROW DITCH PER DETAIL $\frac{3}{3}$
	DIP SECTION PER DETAIL $\frac{4}{3}$
	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. $\frac{6}{4}$
	DROP OUTLET PER SDRSD D-16 TYPE B, INLET PIPE 24" AND OUTLET PIPE 12" DIAMETER
	CONCRETE DRAINAGE DITCH, SEE DETAIL $\frac{3}{3}$
	DRAINAGE DITCH BEHIND MASONRY CUT RETAINING WALL, SEE DETAIL $\frac{4\&5}{4}$
	RETAINING WALL, FILL $\frac{8}{5}$
	RETAINING WALL, CUT $\frac{7}{4}$
	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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SAN DIEGO, CALIFORNIA

SPL-04A (LINK 5)
LEGEND & GENERAL NOTES

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SPL-04A-002



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LONGITUDINAL SLOPE OF LINED
DITCH SHALL BE 2% MINIMUM.



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.



NOTE:
THE RIDGE OF EACH WATERBAR IS TO BE MAINTAINED AT AN
ELEVATION AT LEAST 6 INCHES ABOVE THE ADJACENT DEPRESSION



REVISIONS

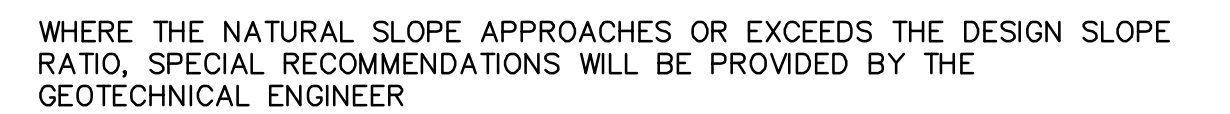
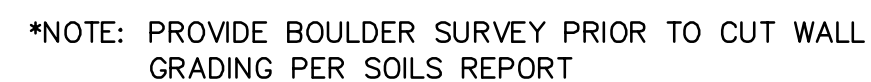
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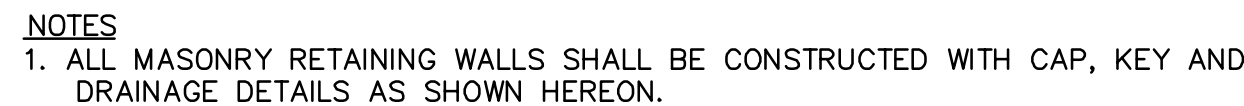




*NOTE: ALL CUT MASONRY RETAINING WALLS ABOVE 3'-8"
SHALL HAVE A CONTINUOUS CABLE RAILING.



NT



NTS

WORK DONE

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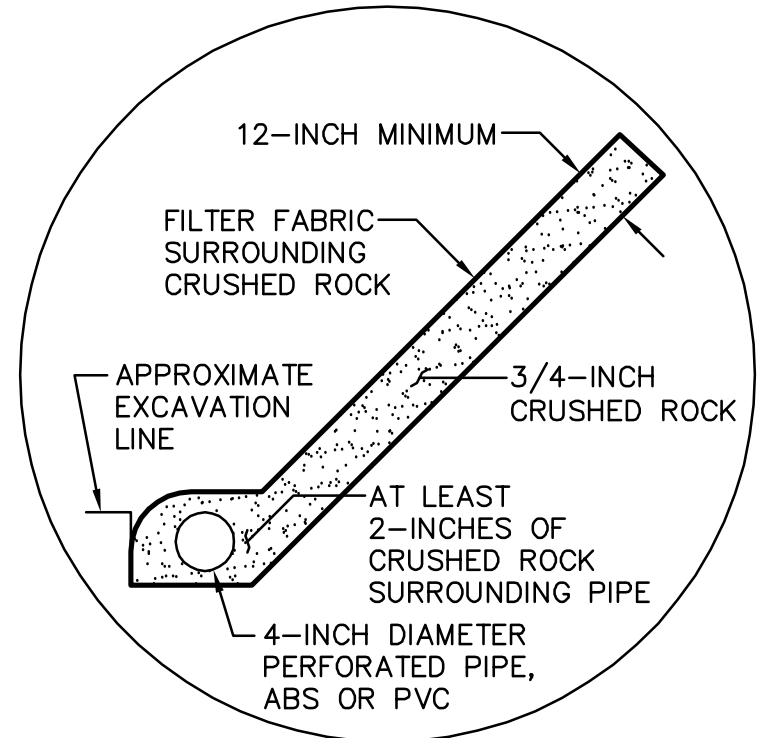
DETAIL SHEET 2 OF 5

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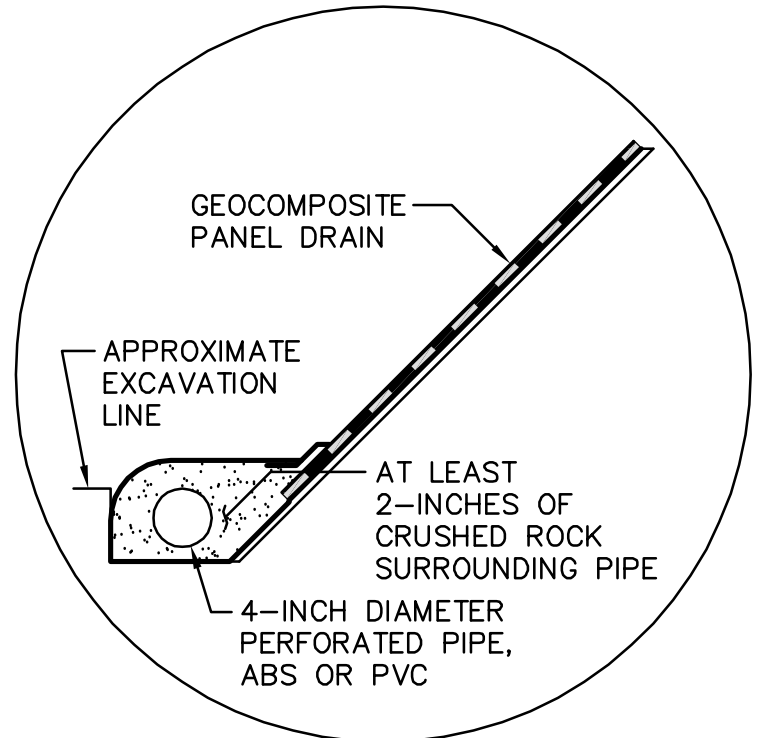
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ROCK BLANKET ALTERNATIVE



GEOCOMPOSITE PANEL ALTERNATIVE

WALL BACK DRAINAGE NOTES:

1. PERFORATED PIPE SHOULD OUTLET THROUGH A SOLID PIPE TO A FREE GRAVITY OUTFALL AT MAX 100' SPACING. PERFORATED PIPE AND OUTLET PIPE SHOULD HAVE A FALL OF AT LEAST 2%.
2. FILTER FABRIC SHOULD CONSIST OF MIRAFI 140N, OR SIMILAR APPROVED PRODUCT. FILTER FABRIC SHOULD BE OVERLAPPED PER MANUFACTURES INSTRUCTIONS.
3. DRAIN INSTALLATION SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO BACK FILLING.
4. SUBSURFACE BACK DRAINAGE MAY BE REDUCED IF THE SOILS USED IN THE REINFORCED AND RETAINED ZONES ARE RELATIVELY "FREE DRAINING" AS APPROVED BY GEOTECHNICAL ENGINEER. CONTRACTOR TO ASSUME 20 PERCENT OF WALL SQUARE FOOTAGE REQUIRES BACK DRAINAGE.
5. IF ROCK BLANKET BACK DRAIN ROCK IS SUBSTITUTED WITH CALTRANS CLASS II PERMEABLE AGGREGATE THE FILTER FABRIC CAN BE ELIMINATED.

MSE WALL BACKFILL NOTES:

1. CONTRACTOR IS ADVISED THAT MOST ONSITE SOILS WILL BE VIALE FOR MSE WALL BACKFILL UTILIZING 3" TO 4" BAR SCREEN TO CONFORM SOILS TO FOLLOWING TABLE BELOW CARE SHOULD BE TAKEN TO SELECT BACKFILL MATERIAL THAT IS FREE OF EXCESSIVE FINES AND ORGANIC MATERIAL.
2. CONTRACTOR TO OBTAIN GEOTECHNICAL APPROVAL OF BOTTOM CUT AND 7' OFFSET FROM SLOPE FACE PRIOR TO PLACEMENT OF ANY GEOGRID OR WIRE MATS. MSE RETAINING WALLS SHOULD BE FOUNDED ON PROPERLY COMPACTED OR RELATIVELY UNDISTURBED WEATHERED GRANITIC ROCK MATERIALS AS APPROVED BY THE GEOTECHNICAL ENGINEER.
3. GEOTECH ENGINEER AND MANUFACTURER'S REPRESENTATIVE SHALL OBSERVE AND APPROVE BACKFILL MATERIALS AND PROCEDURES DURING BACKFILL AND CONSTRUCTION

MSE WALL BACKFILL GRADATION REQUIREMENTS

SEIVE SIZE	RECOMMENDED GRADATION PERCENT PASSING BY WEIGHT
100mm (4 INCH)	100-75
4.76mm (NO. 4)	20-100
0.425mm (NO. 40)	0-60
0.075mm (NO. 200)	0-35
PLASTICITY INDEX (PI)	< 20

- a. A PI < 8 IS RECOMMENDED TO MINIMIZE EXPANSIVE POTENTIAL AND PROVIDE SUITABLE DRAINAGE CHARACTERISTICS
- b. mm - MILLIMETERS

MSE WALL GEOGRID LENGTHS

PRELIMINARY MIN. SOIL DESIGN PARAMETERS O = 135' DENSITY < 130 PCF	
HEIGHT (FT)	B= BASE DEPTH OF WALL
8'	8'
10'	8'
12'	10'
14'	12'
16'	13'
18'	15'
20'	16'
22'	18'
24'	20'
26'	21'
28'	23'
30'	24'
32'	26'-2-14*

* B DIST. - BOTTOM GRIDS WITH SF90 GEOGRID
- TOP REMAINING GRIDS WITH SF65 GEOGRID

MSE WALL GEOGRID SPECIFICATIONS

WWW.SYNTEEN.COM, OR EQUAL APPROVED BY ENGINEER

SF 90
SOIL REINFORCEMENT GEOGRID
UNIAXIAL GEOGRID
THE STRENGTH IS IN THE LENGTH DIRECTION

SF 90 IS COMPOSED OF HIGH MOLECULAR WEIGHT, HIGH TENACITY MULTIFILAMENT POLYESTER YARNS THAT ARE WOVEN INTO A STABLE NETWORK PLACED UNDER TENSION. THE HIGH STRENGTH POLYESTER YARNS ARE COATED WITH A PVC MATERIAL. SF SERIES GEOGRIDS ARE INERT TO BIOLOGICAL DEGRADATION AND ARE RESISTANT TO NATURALLY ENCOUNTERED CHEMICALS, ALKALIS AND ACIDS. SF SERIES GEOGRIDS ARE TYPICALLY USED FOR SOIL REINFORCEMENT APPLICATIONS SUCH AS RETAINING WALLS, STEEPENED SLOPES, EMBANKMENTS, SUBGRADE STABILIZATION, AND EMBANKMENTS OVER SOFT SOILS AND WASTE CONTAINMENT APPLICATIONS.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES (LBS/FT)
ULTIMATE STRENGTH	ASTM D 6637	8500
CREEP LIMITED STRENGTH	ASTM D 5262	5483
T _u = LONG TERM DESIGN STRENGTH	NCMA 97 *	4747
APERTURE SIZE (INS.)	MEASURED	0.75 x 0.75 OR SITE SPECIFIC AS REQUIRED

REDUCTION FACTOR FOR CREEP 1.55, REDUCTION FACTOR FOR DURABILITY 1.10 REDUCTION FACTOR FOR INSTALLATION DAMAGE (TYPE 3 SOIL) 1.05

FHWA/AASHTO REDUCTION FACTOR FOR CREEP 1.55, REDUCTION FACTOR FOR DURABILITY 1.15, REDUCTION FACTOR FOR INSTALLATION DAMAGE (TYPE 3 SOIL) 1.03

GRI GG4B REDUCTION FACTOR FOR CREEP 1.75, REDUCTION FACTOR FOR DURABILITY 1.10 REDUCTION FACTOR FOR INSTALLATION DAMAGE (TYPE 3 SOIL) 1.05

WWW.SYNTEEN.COM, OR EQUAL APPROVED BY ENGINEER

SF 65
SOIL REINFORCEMENT GEOGRID
UNIAXIAL GEOGRID
THE STRENGTH IS IN THE LENGTH DIRECTION

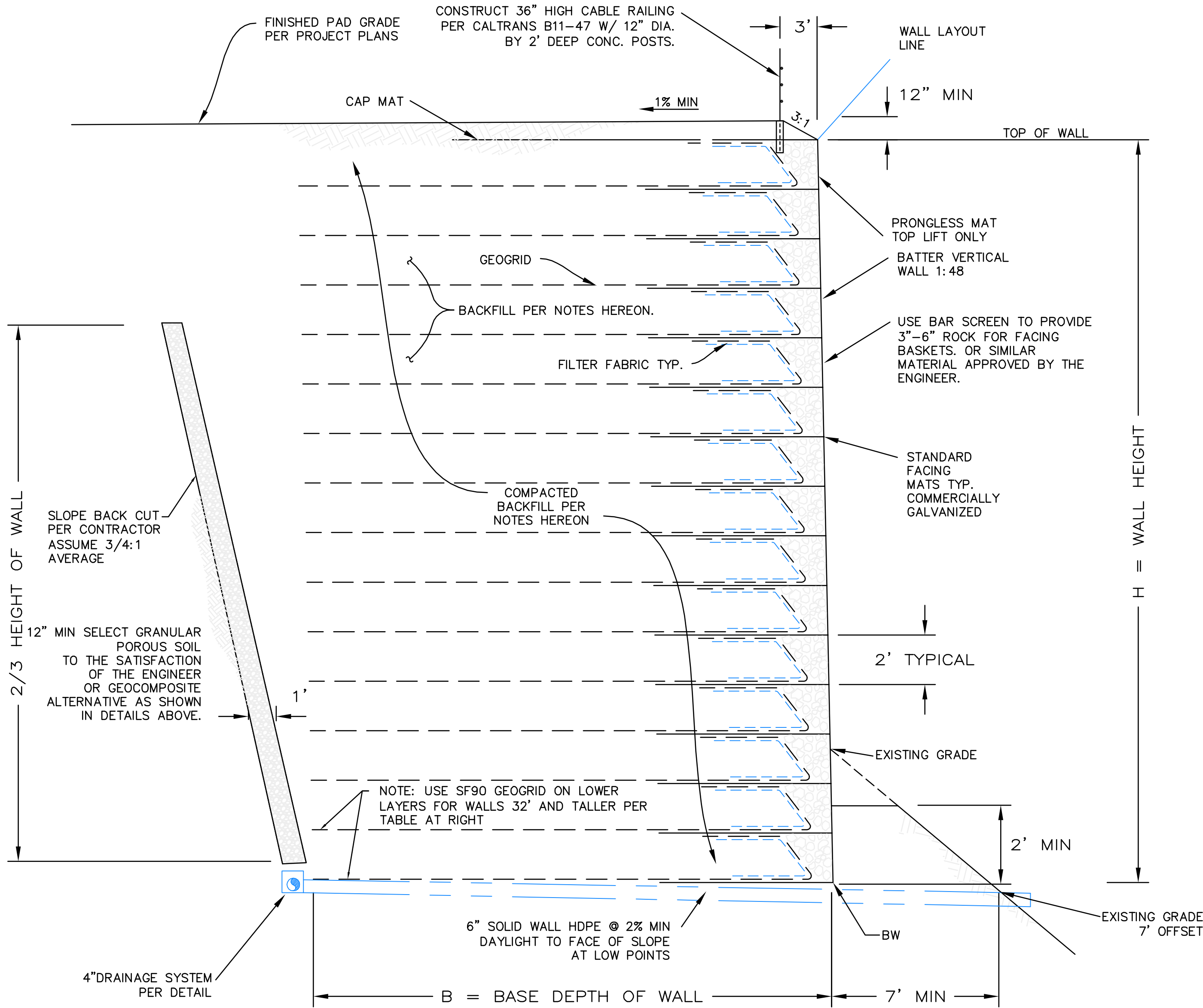
SF 65 IS COMPOSED OF HIGH MOLECULAR WEIGHT, HIGH TENACITY MULTIFILAMENT POLYESTER YARNS THAT ARE WOVEN INTO A STABLE NETWORK PLACED UNDER TENSION. THE HIGH STRENGTH POLYESTER YARNS ARE COATED WITH A PVC MATERIAL. SF SERIES GEOGRIDS ARE INERT TO BIOLOGICAL DEGRADATION AND ARE RESISTANT TO NATURALLY ENCOUNTERED CHEMICALS, ALKALIS AND ACIDS. SF SERIES GEOGRIDS ARE TYPICALLY USED FOR SOIL REINFORCEMENT APPLICATIONS SUCH AS RETAINING WALLS, STEEPENED SLOPES, EMBANKMENTS, SUBGRADE STABILIZATION, AND EMBANKMENTS OVER SOFT SOILS AND WASTE CONTAINMENT APPLICATIONS.

FEBRUARY, 2006

TENSILE PROPERTIES	TEST METHOD	MARV VALUES (LBS/FT)
ULTIMATE STRENGTH	ASTM D 6637	6000
CREEP LIMITED STRENGTH	ASTM D 5262	3871
T _u = LONG TERM DESIGN STRENGTH	NCMA 97	3373
APERTURE SIZE (INS.)	MEASURED	0.75 x 0.75

RF CREEP - 1.55
RF DURABILITY - 1.10
RF INSTALLATION DAMAGE (SOIL TYPE 3) - 1.05

NOTE: SEE ADDITIONAL DETAILS ON SHEETS 6 & 7



TYPICAL HILFIKER WELDED WIRE WALL SECTION 8/5

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-04A (LINK 5)

Detail Sheet 3 OF 5

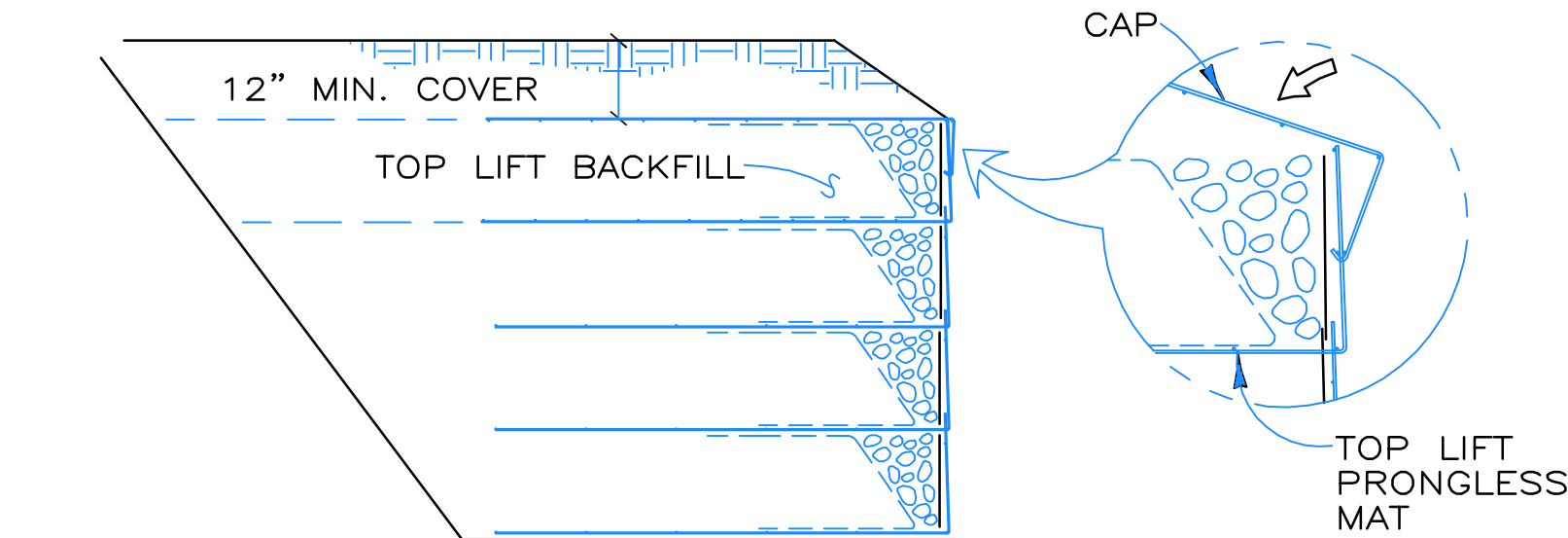
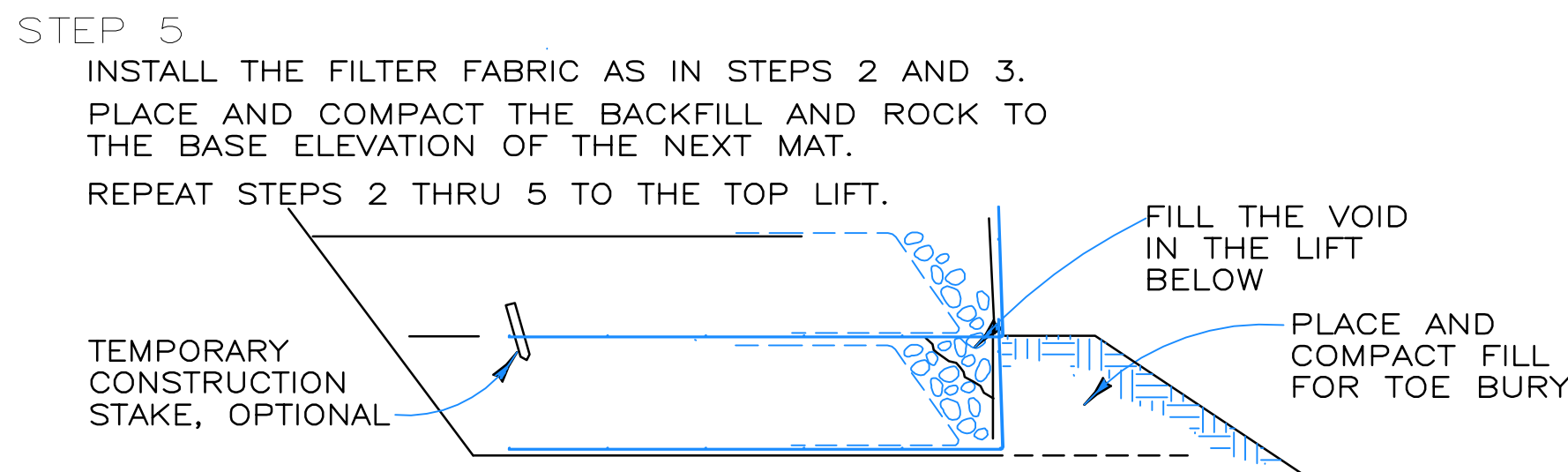
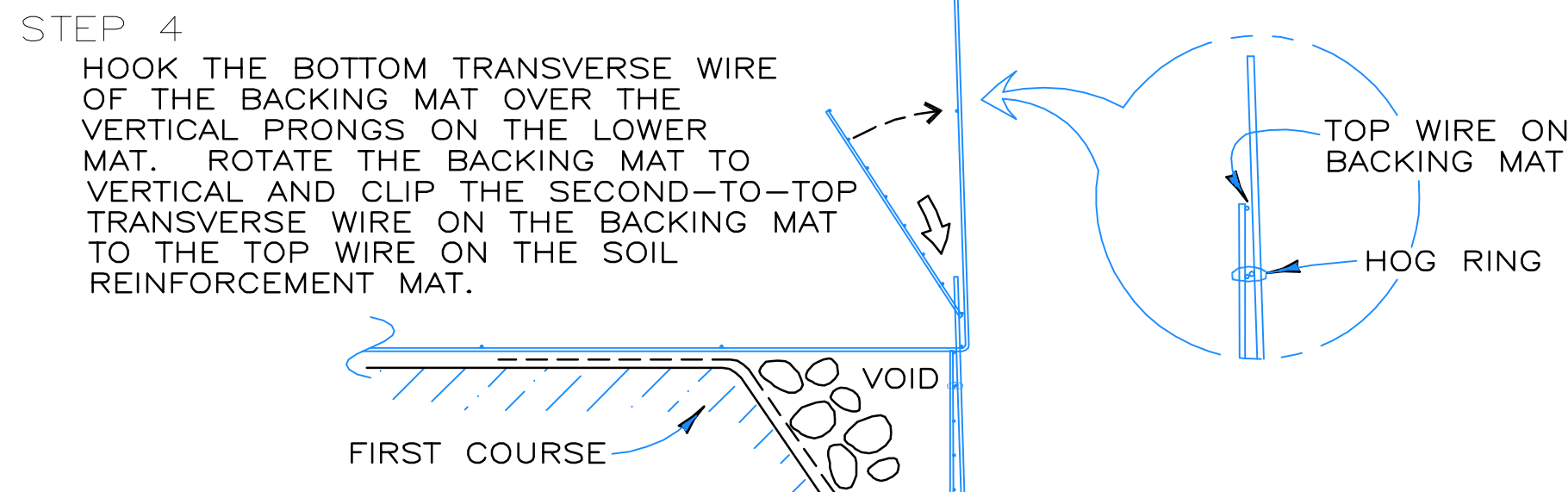
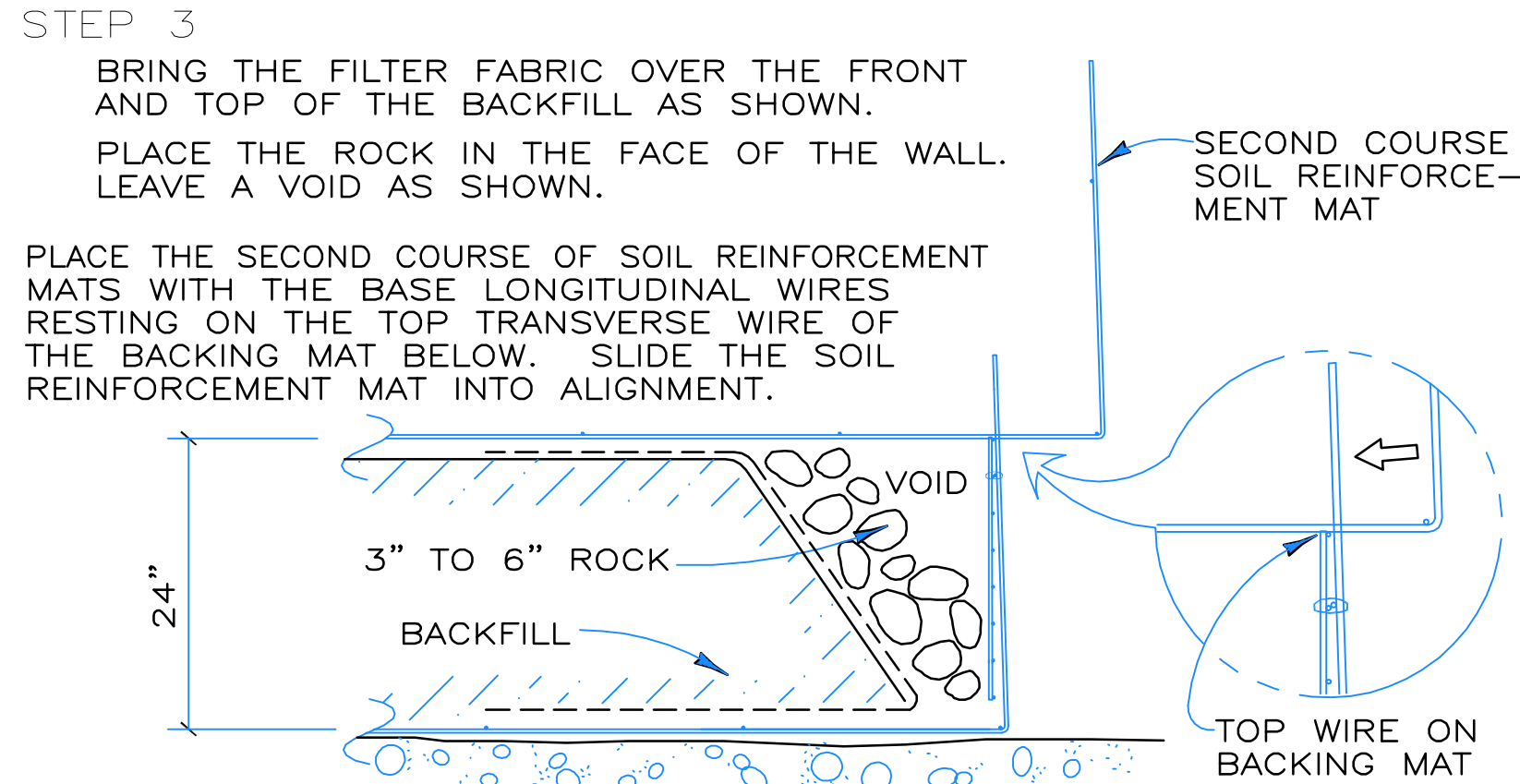
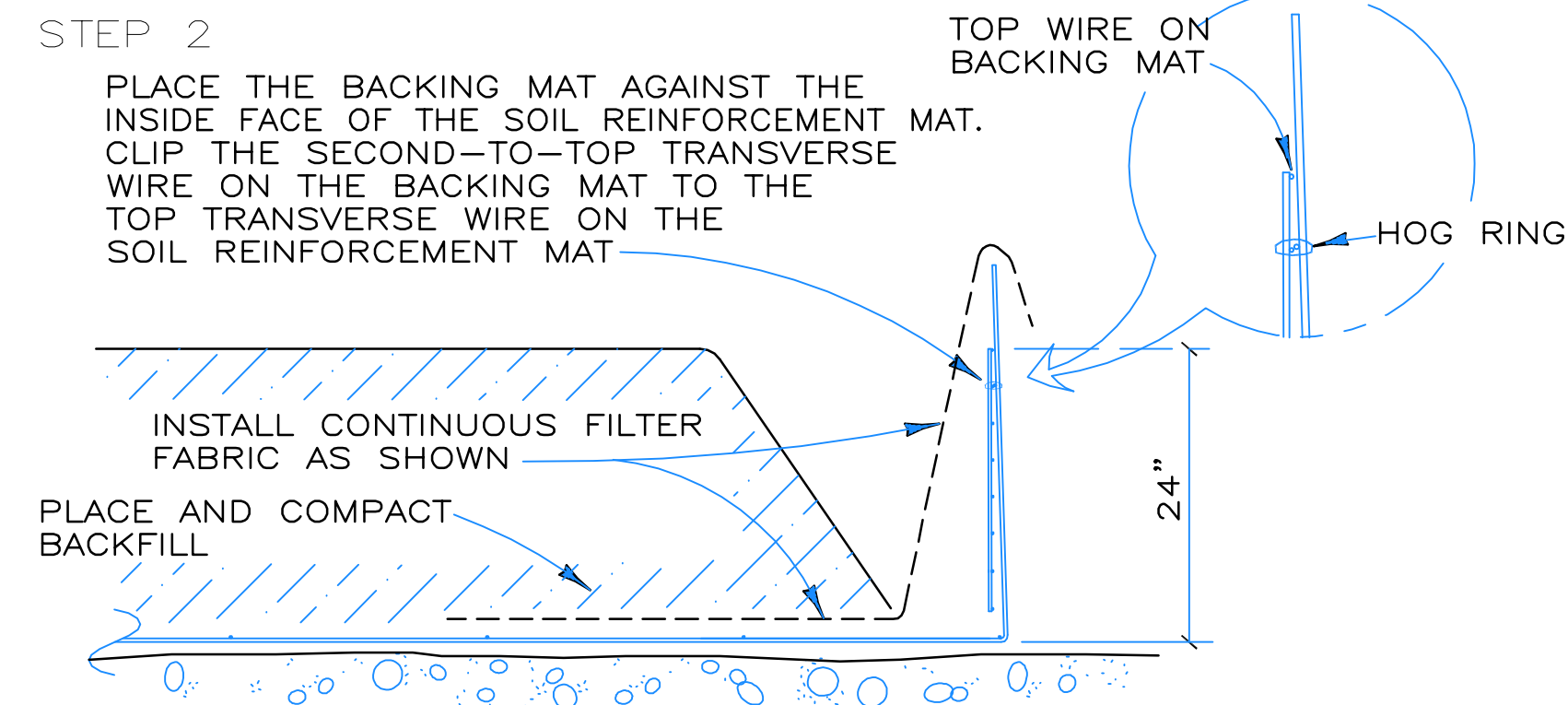
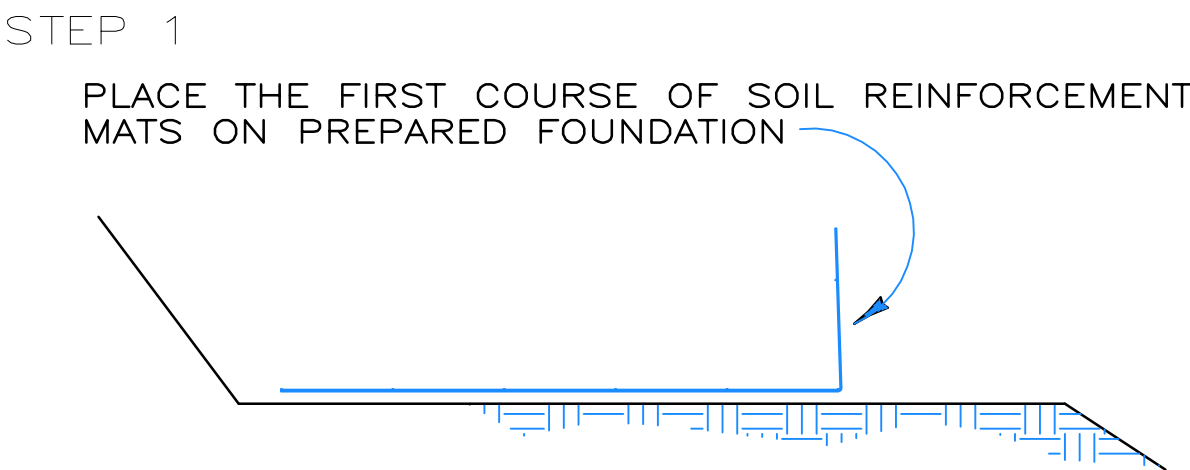
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STEP 6: TOP LIFT

PLACE THE TOP LIFT PRONGLESS MAT, BACKING MAT AND FILTER FABRIC.

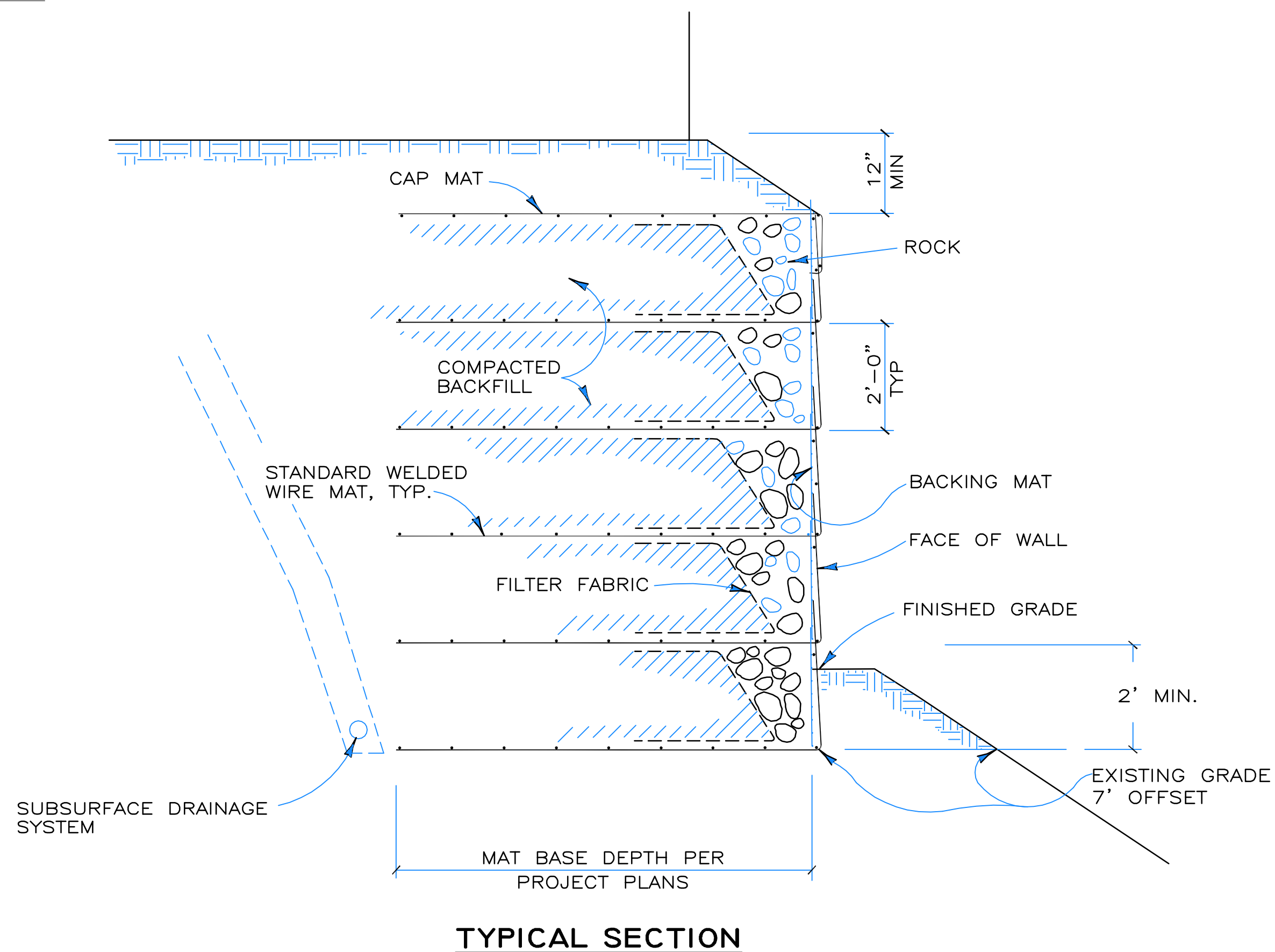
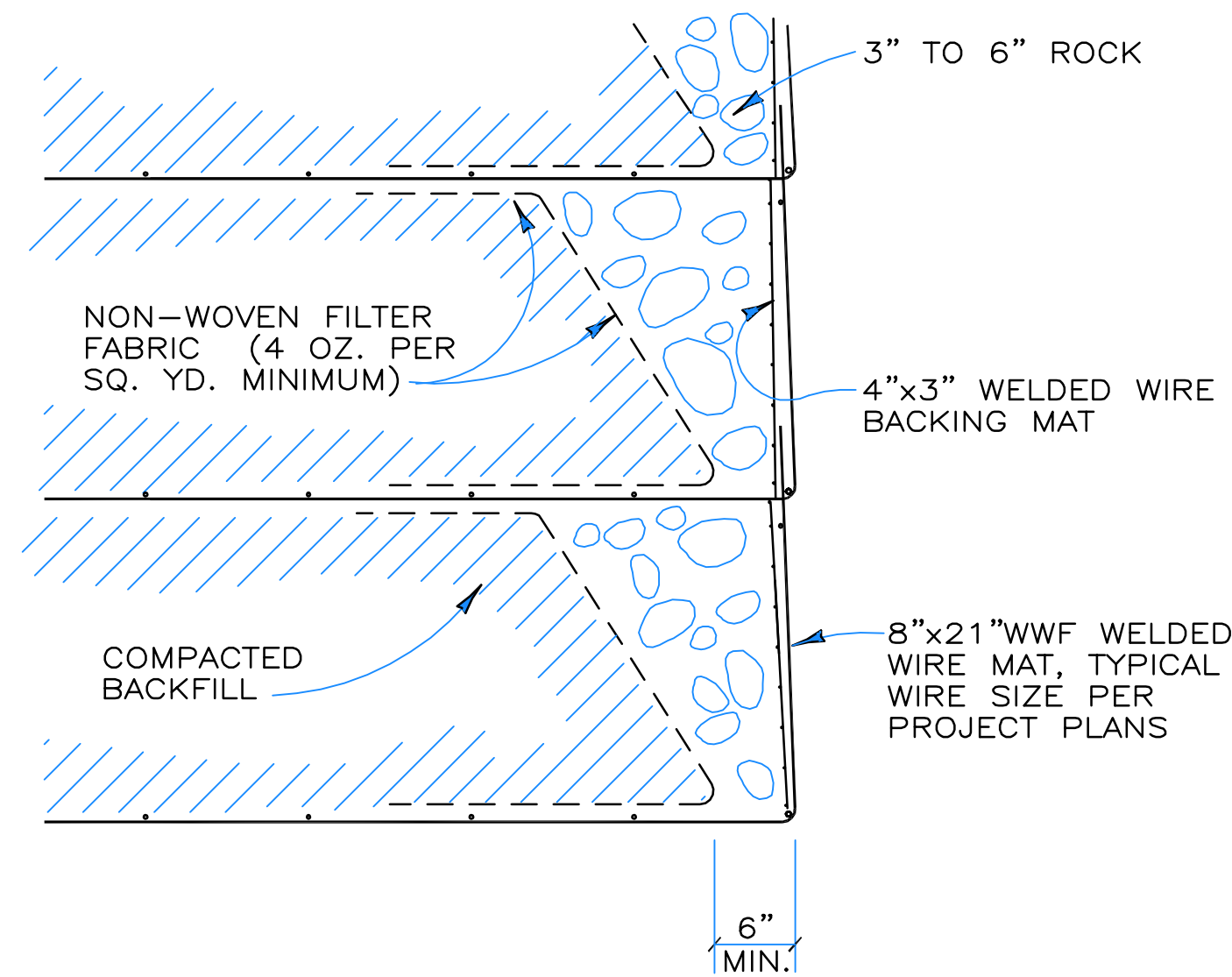
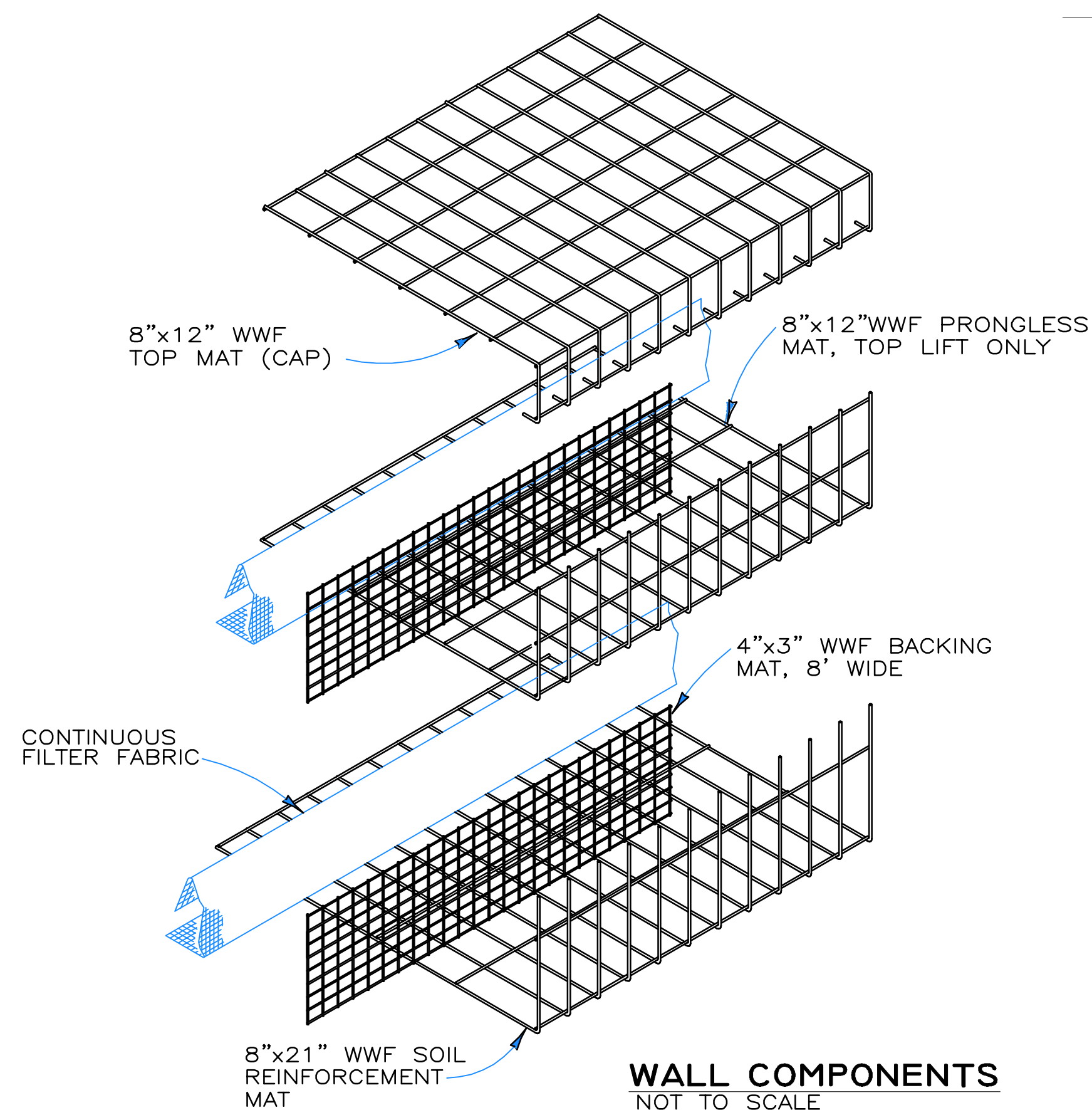
PLACE AND COMPACT BACKFILL AND ROCK IN THE TOP LIFT.

HOOK THE CAP OVER THE MIDDLE TRANSVERSE WIRE ON THE PRONGLESS MAT, AND ROTATE INTO PLACE

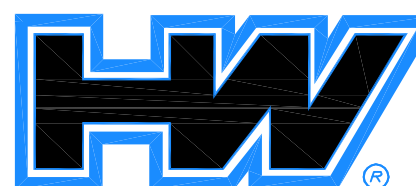
PLACE AND COMPACT COVER OVER TOP MAT TO 12" MINIMUM DEPTH.

CONSTRUCTION SEQUENCE

NOT TO SCALE



HILFIKER RETAINING WALLS



1902 Hilfiker Lane
Eureka, CA 95503-5711
TOLL-FREE 800.762.8962
PH 707.443.5093 FAX 707.443.2891
WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com



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SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-04A (LINK 5)

Detail Sheet 4 OF 5

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CAD NO:	PLOT SCALE: 1 = 1			

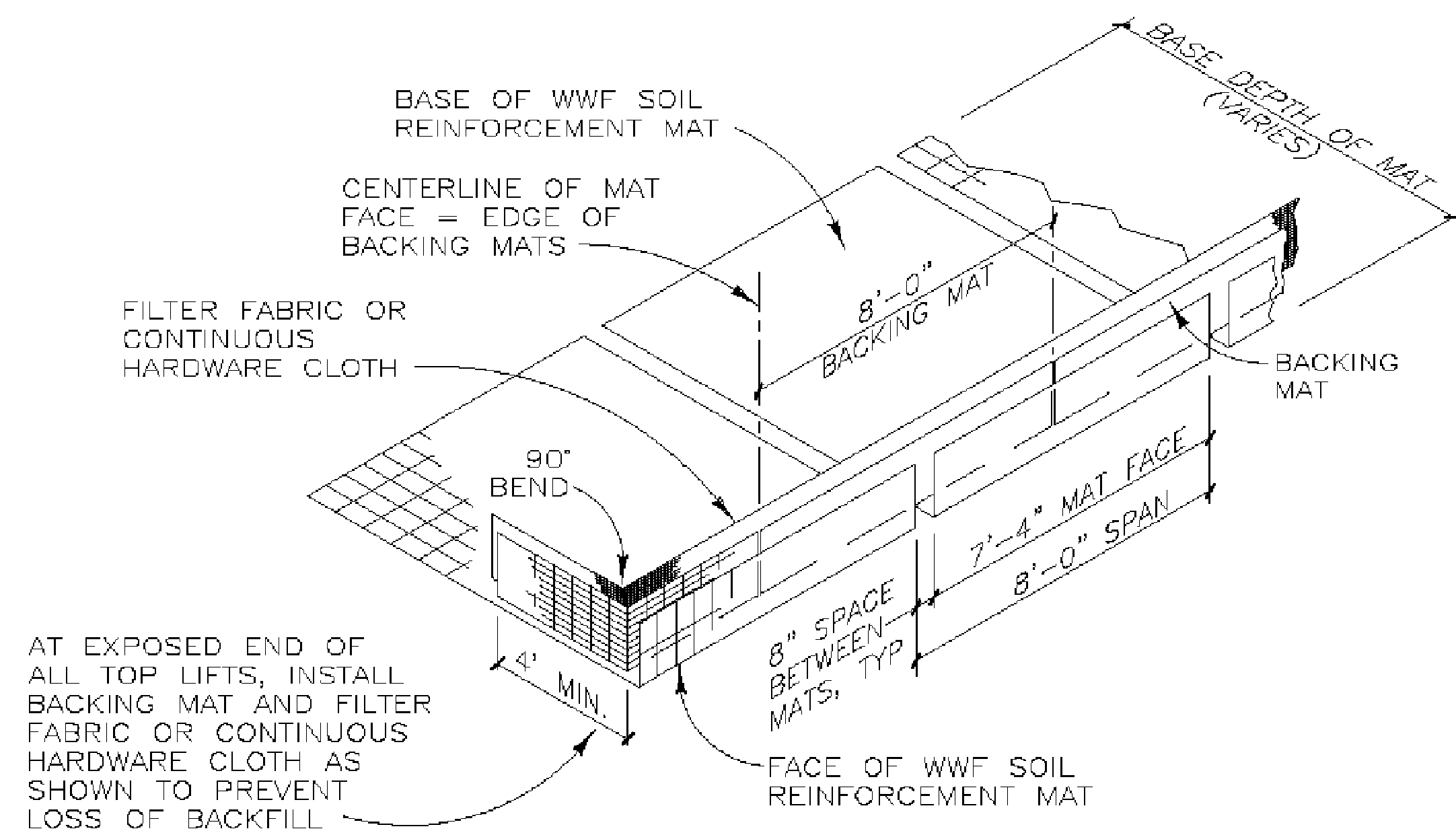
SPL-04A-006



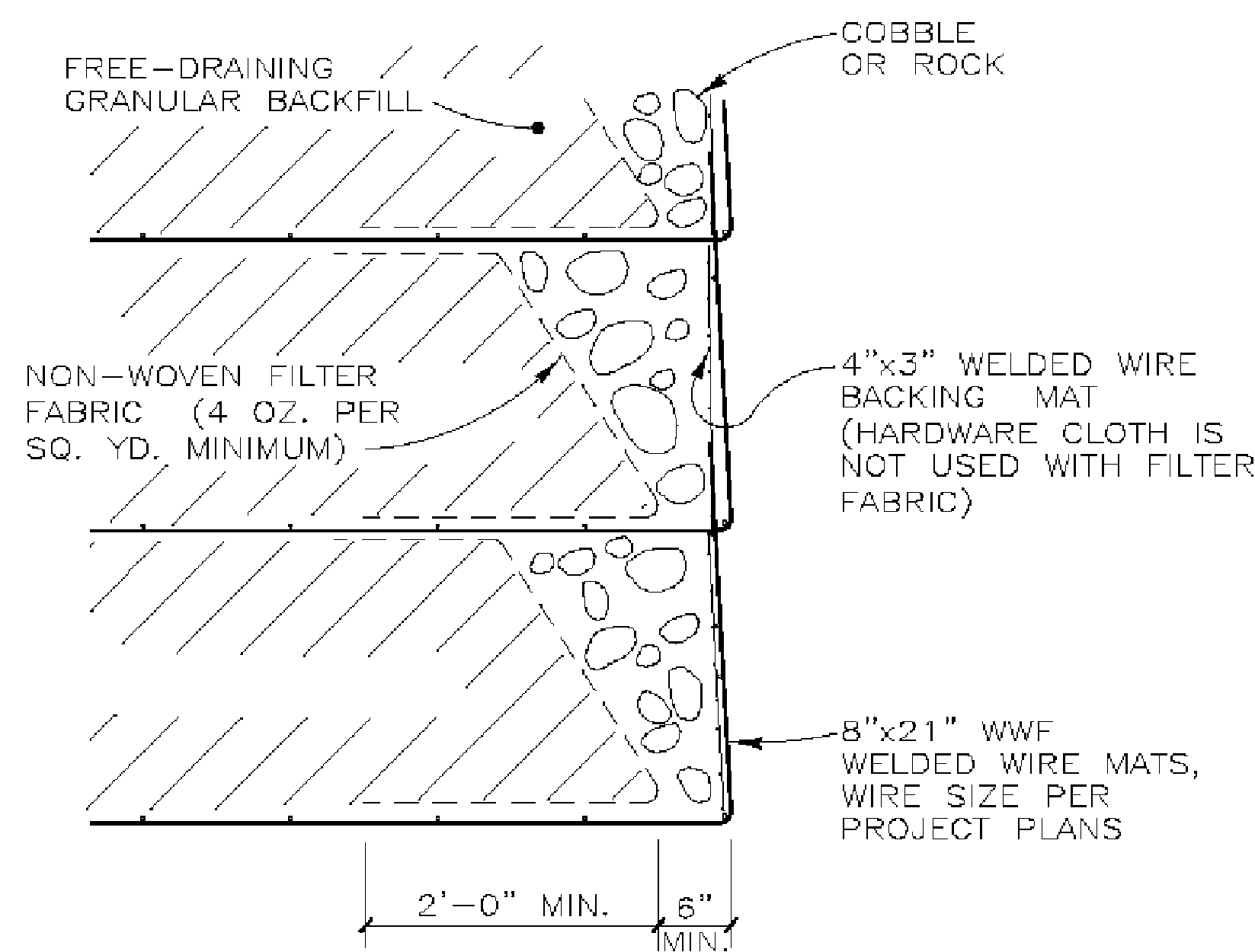
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PL161919 SDG&E SPL\CADD\04A\dwg\plan\plan\04A-DETAIL 40F5.dwg\Jmcy-19-20101547



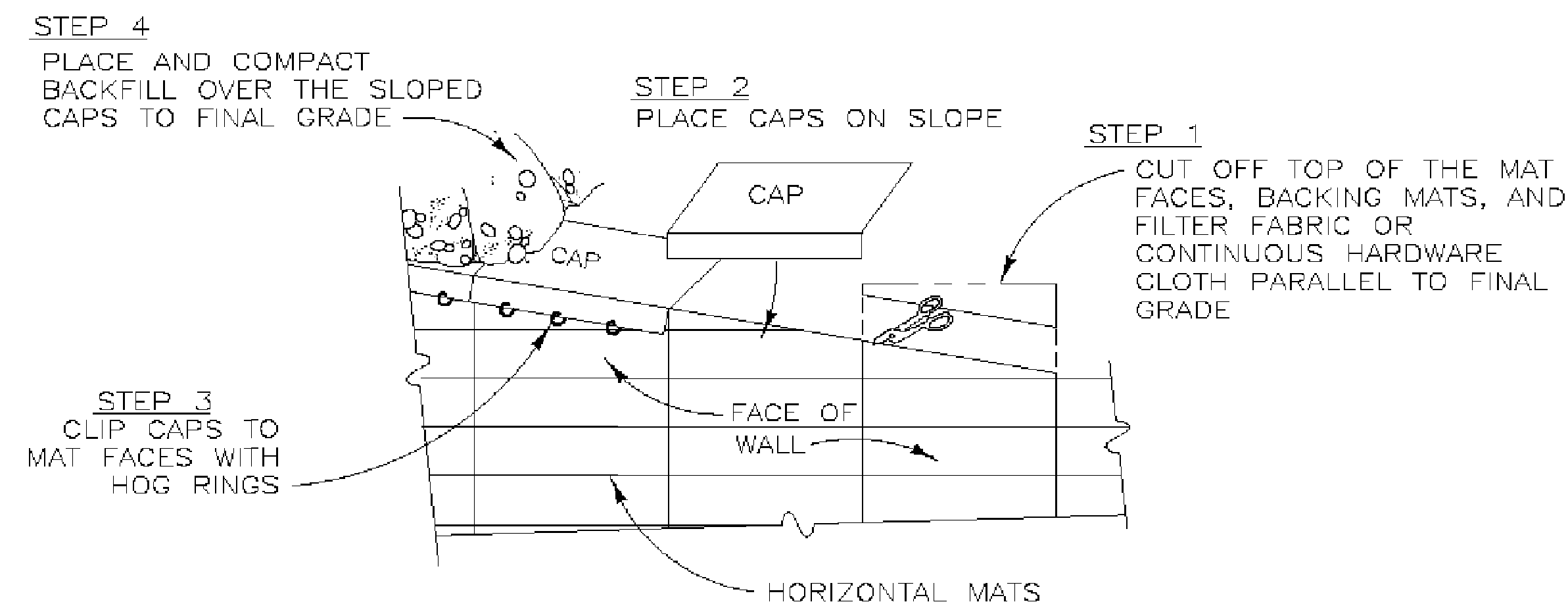
ISOMETRIC VIEW
WELDED WIRE WALL COMPONENTS WITH RETURN MAT
NOT TO SCALE



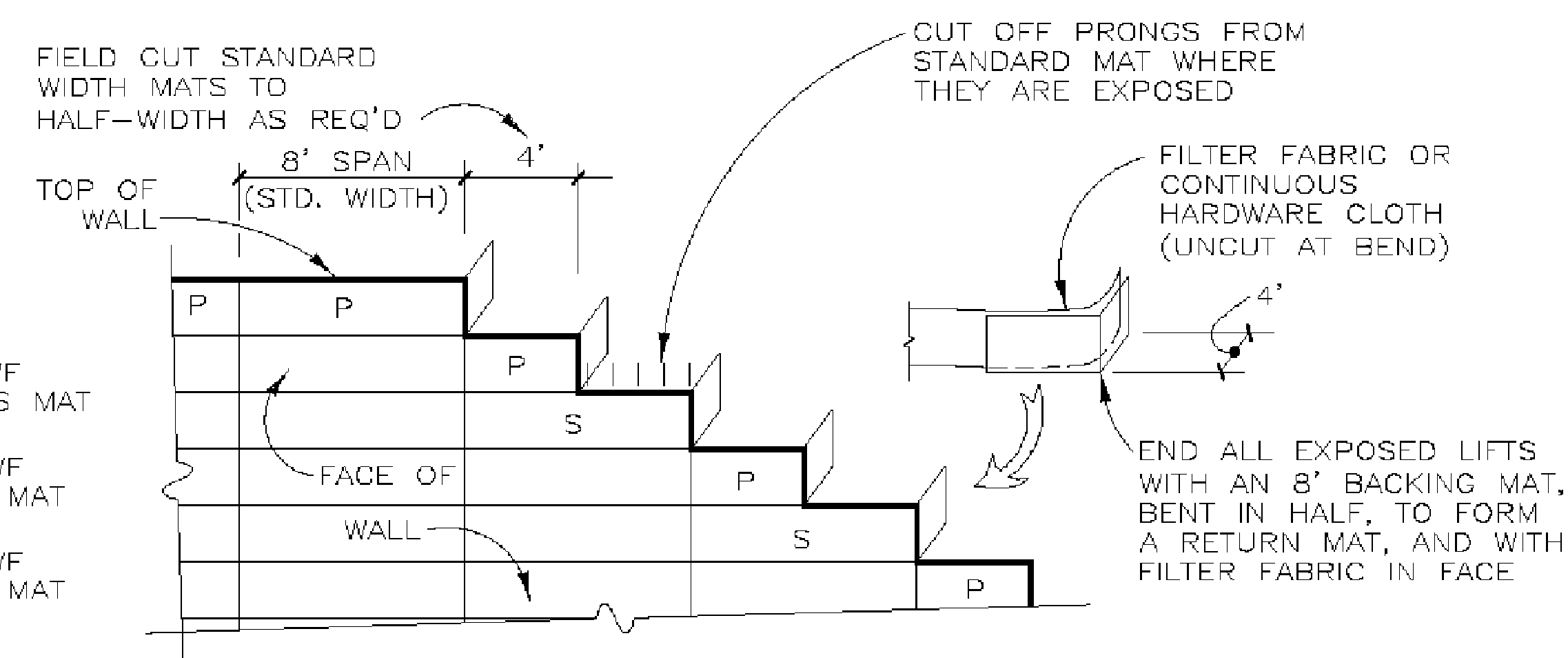
SECTION
ROCK FACING DETAIL
NOT TO SCALE

LEGEND
(THIS DETAIL ONLY)

P	8"x12" WWF PRONGLESS MAT
S	8"x12" WWF STANDARD MAT
	8"x21" WWF STANDARD MAT

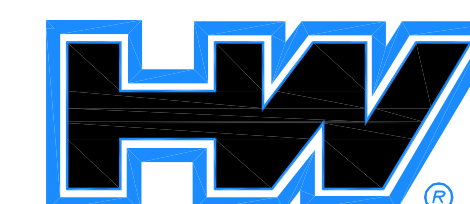


PICTORIAL ELEVATION
SLOPED CAP MAT DETAIL
NOT TO SCALE



RETURN MATS AND TOP OF WALL DETAIL
NOT TO SCALE

HILFIKER RETAINING WALLS



1902 Hilfiker Lane
Eureka, CA 95503-5711
TOLL-FREE 800.762.8962
PH 707.443.5093 FAX 707.443.2891
WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com



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SAN DIEGO, CALIFORNIA

SPL-04A (LINK 5)

Detail Sheet 5 OF 5

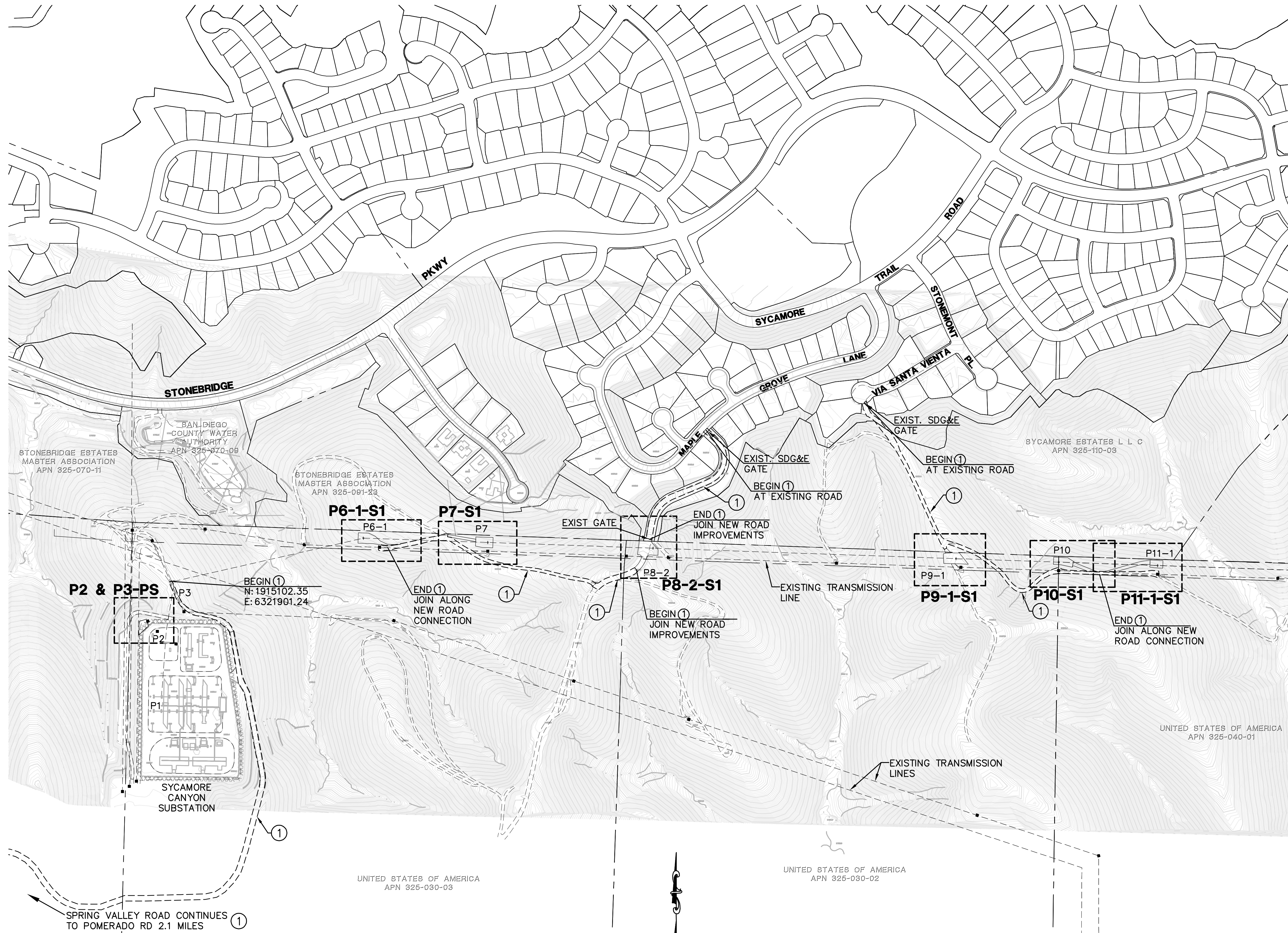
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APPROVED BY:	DATE:			
CAD NO:	PLOT SCALE: 1 = 1			

SPL-04A-007



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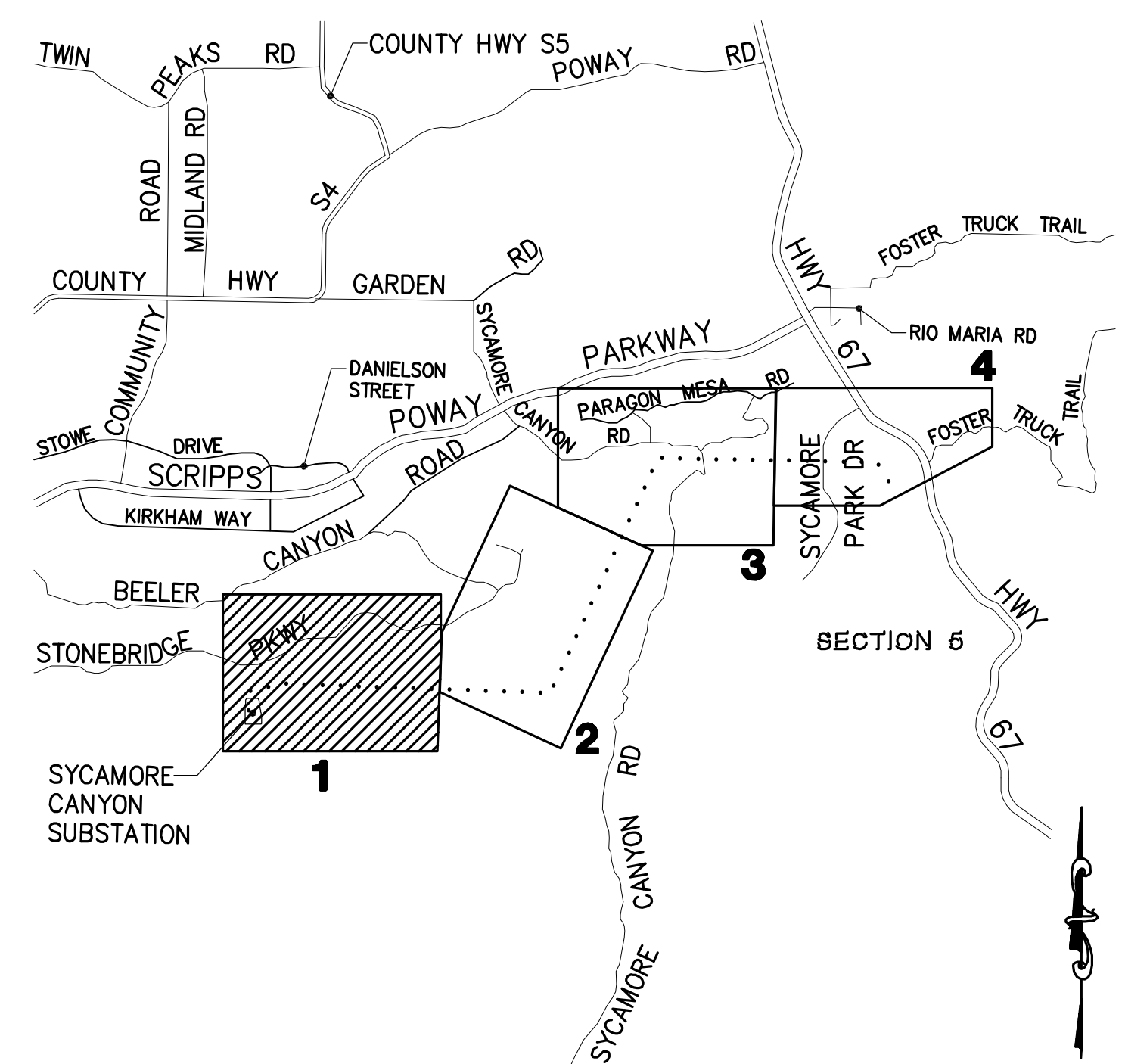




- LEGEND**
- P218-1-S1**
 - MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
 - MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
 - MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
 - SITE IMPROVEMENTS – SEE SHEET AS INDICATED
 - PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
 - CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
 - PROPOSED TRANSMISSION LINES
 - P218-1
 - TSAP
 - 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.



**SECTION 4A
LOCATION MAP**

QUANTITIES:
① LENGTH OF ACCESS ROAD: 19,095 LF*
*INCLUDES OFFSITE LENGTH TO POMERADO ROAD



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-4A (LINK 5)
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

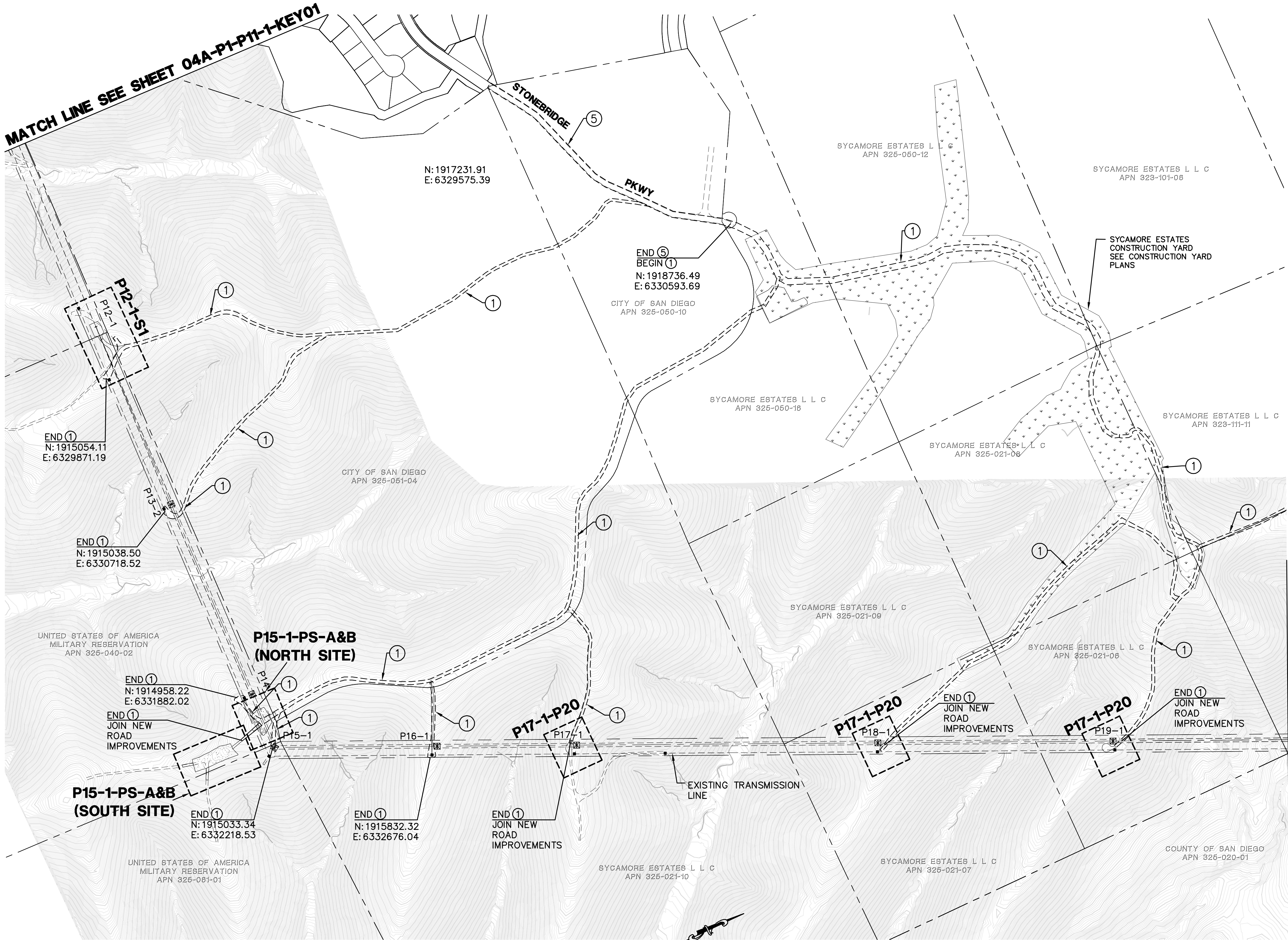
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CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO:	PLOT SCALE: 1" = 1'			

04A-P1-P11-1-KEY01

P:\16919 SDG&E SPL\CADD\04A.dwg\plan\04A-KEY-P1-P32.dwg May-19-2010 15:55

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MATCH LINE SEE SHEET 04A-P1-P11-1-KEY01

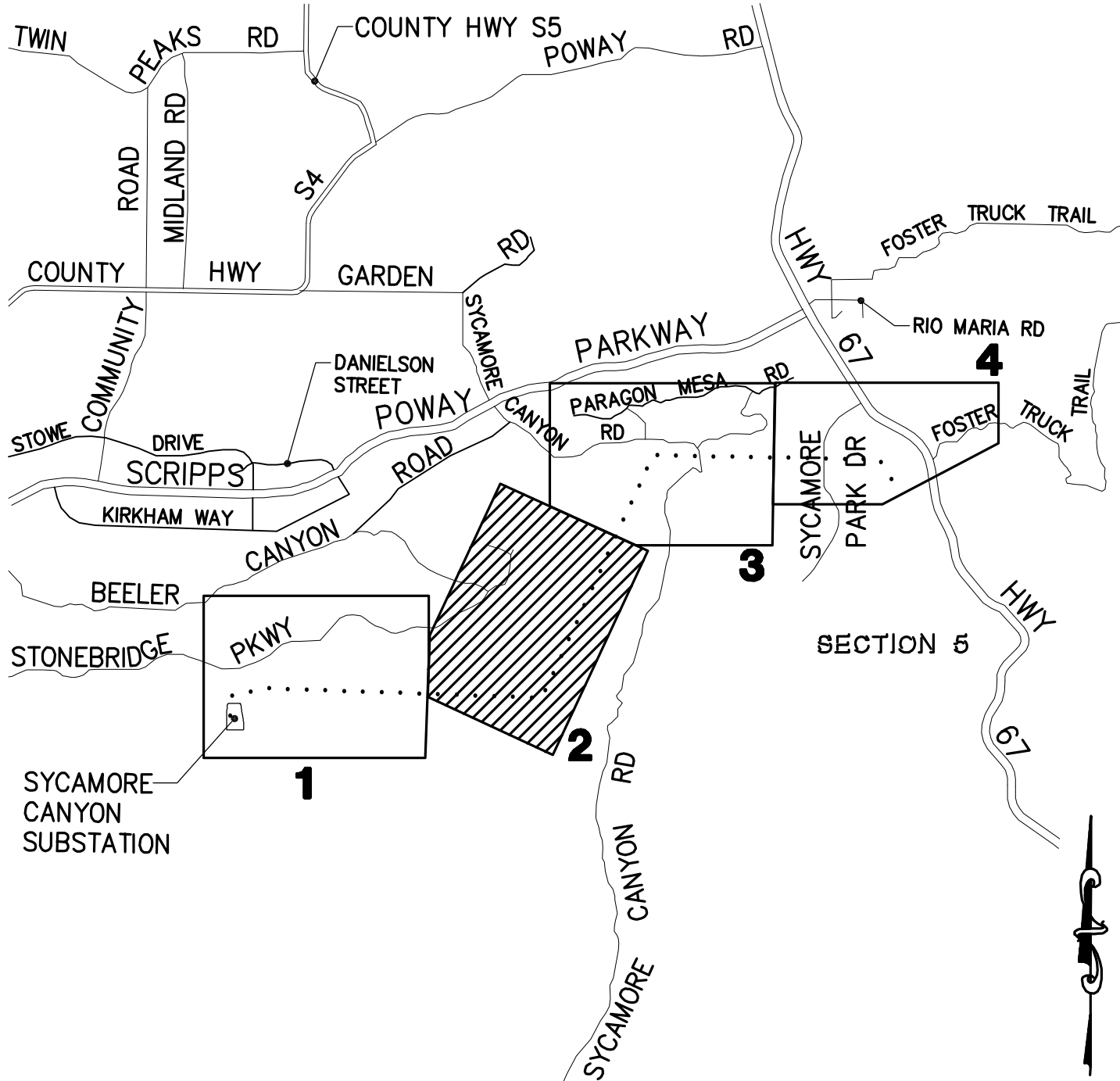


LEGEND

- 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
- P218-1
- TSAP
- PROPOSED LATTICE TOWER AND TOWER #
- PROPOSED TOWER STAGING ACCESS PAD
- EXISTING 10' CONTOURS
- EXISTING 2' CONTOURS

CONSTRUCTION NOTES

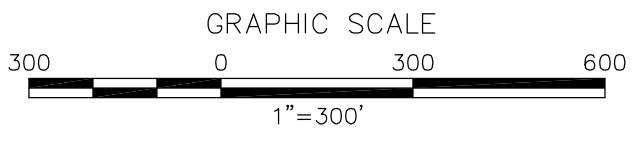
- ① GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.
- ⑤ EXISTING ROAD TO REMAIN AS IS.



SECTION 4A
LOCATION MAP

MATCH LINE SEE SHEET 04A-P20-P26-KEY03

- QUANTITIES:
- ① LENGTH OF ACCESS ROAD: 20,165 LF
 - ⑤ LENGTH OF ACCESS ROAD: 1,667 LF



REVISIONS

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SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-4A (LINK 5)
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: DZ
CHECKED BY:
APPROVED BY:
CAD NO:

DATE:
DATE:
DATE:
DATE:

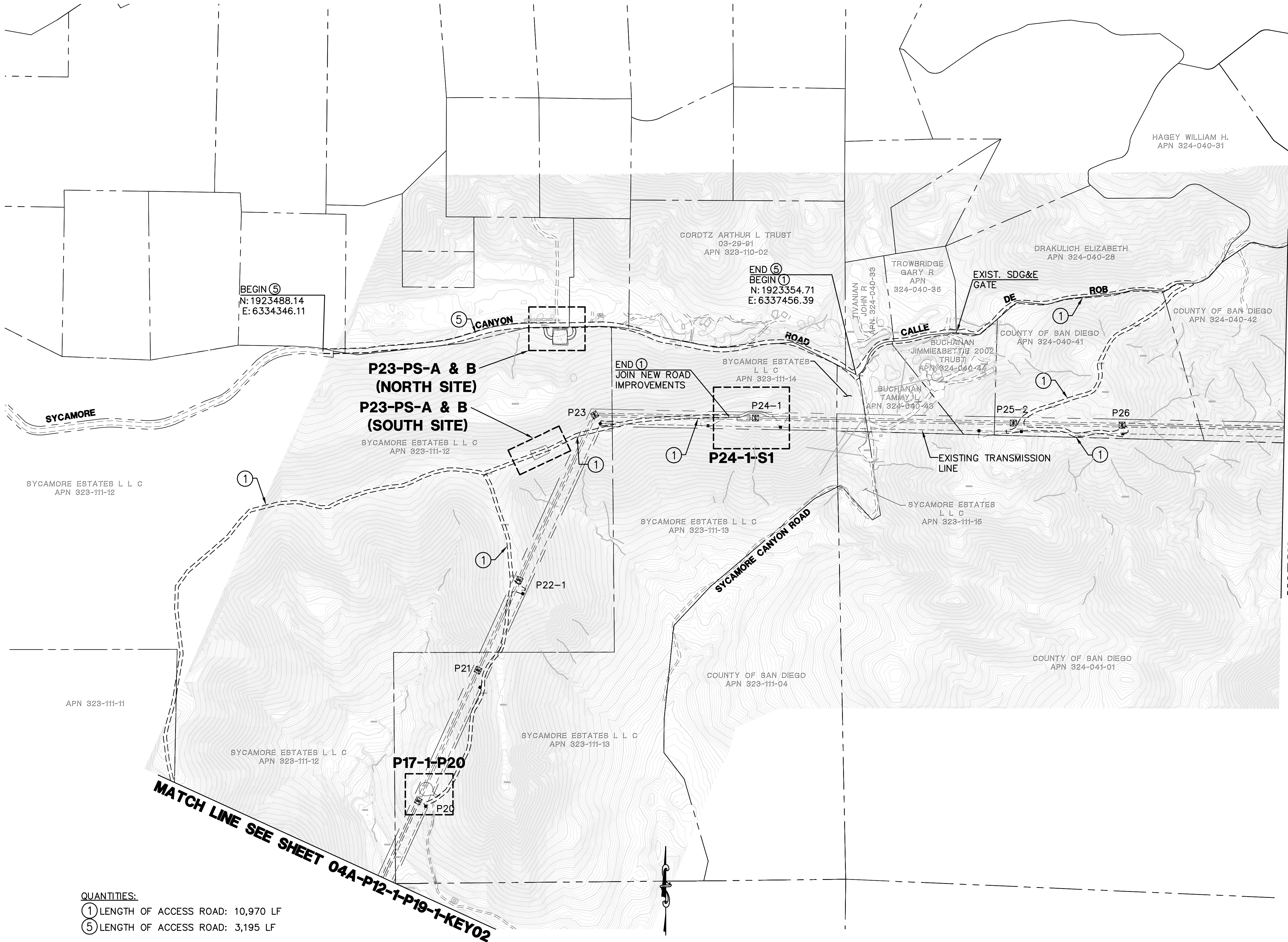
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W.O.
REV. 0
PLOT SCALE: 1 = 1

04A-P12-1-P19-1-KEY02

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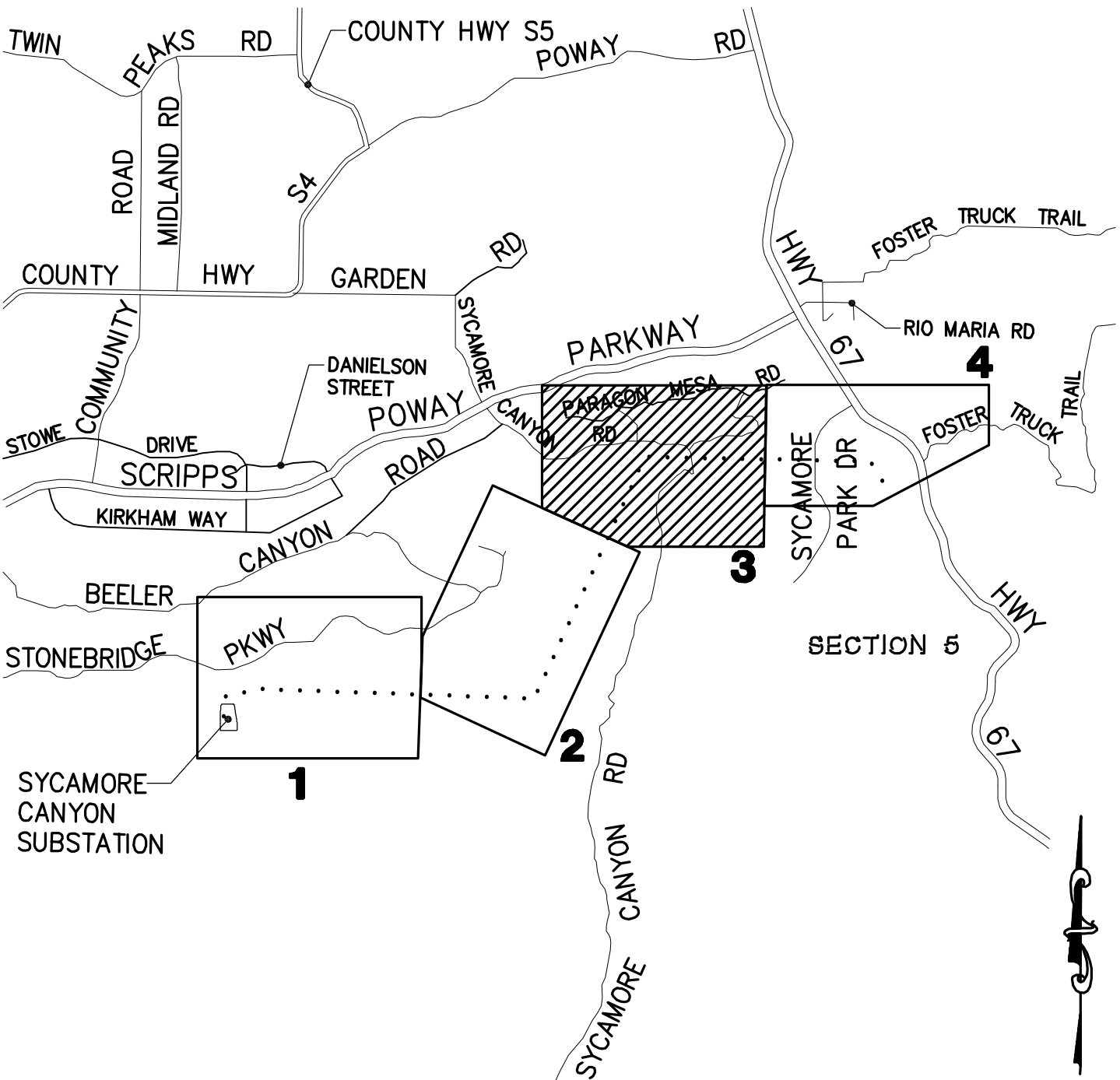


LEGEND

- 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

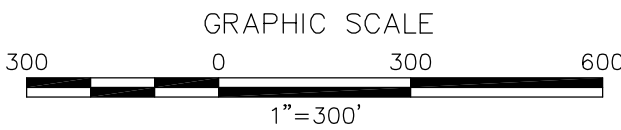
CONSTRUCTION NOTES

- 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.
- 5 EXISTING ROAD TO REMAIN AS IS.



SECTION 4A
LOCATION MAP

- QUANTITIES:
- 1 LENGTH OF ACCESS ROAD: 10,970 LF
 - 5 LENGTH OF ACCESS ROAD: 3,195 LF



REVISIONS

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SAN DIEGO, CALIFORNIA

SPL-4A (LINK 5)
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

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CHECKED BY: DATE:

APPROVED BY: DATE:

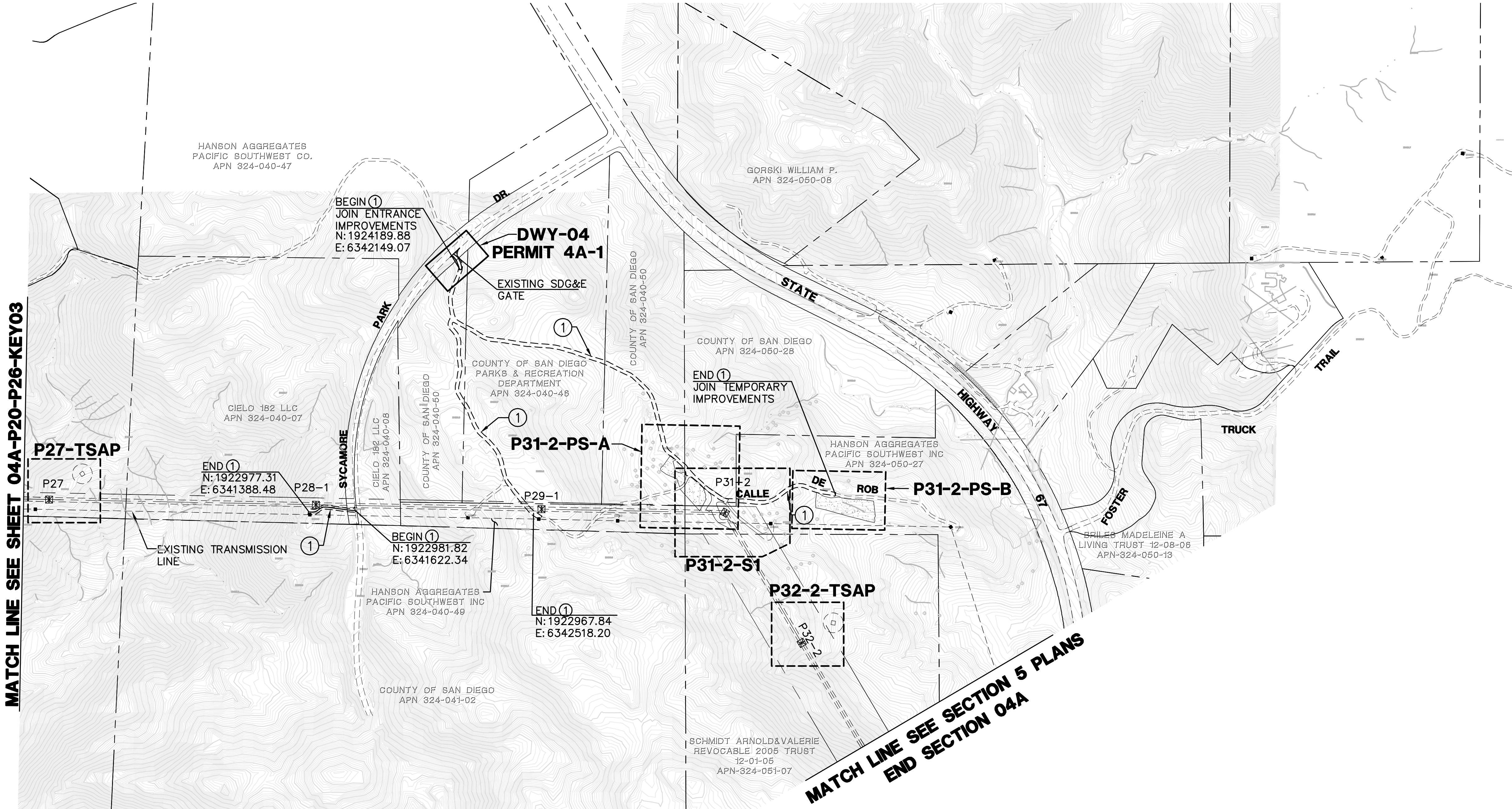
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04A-P20-P26-KEY03



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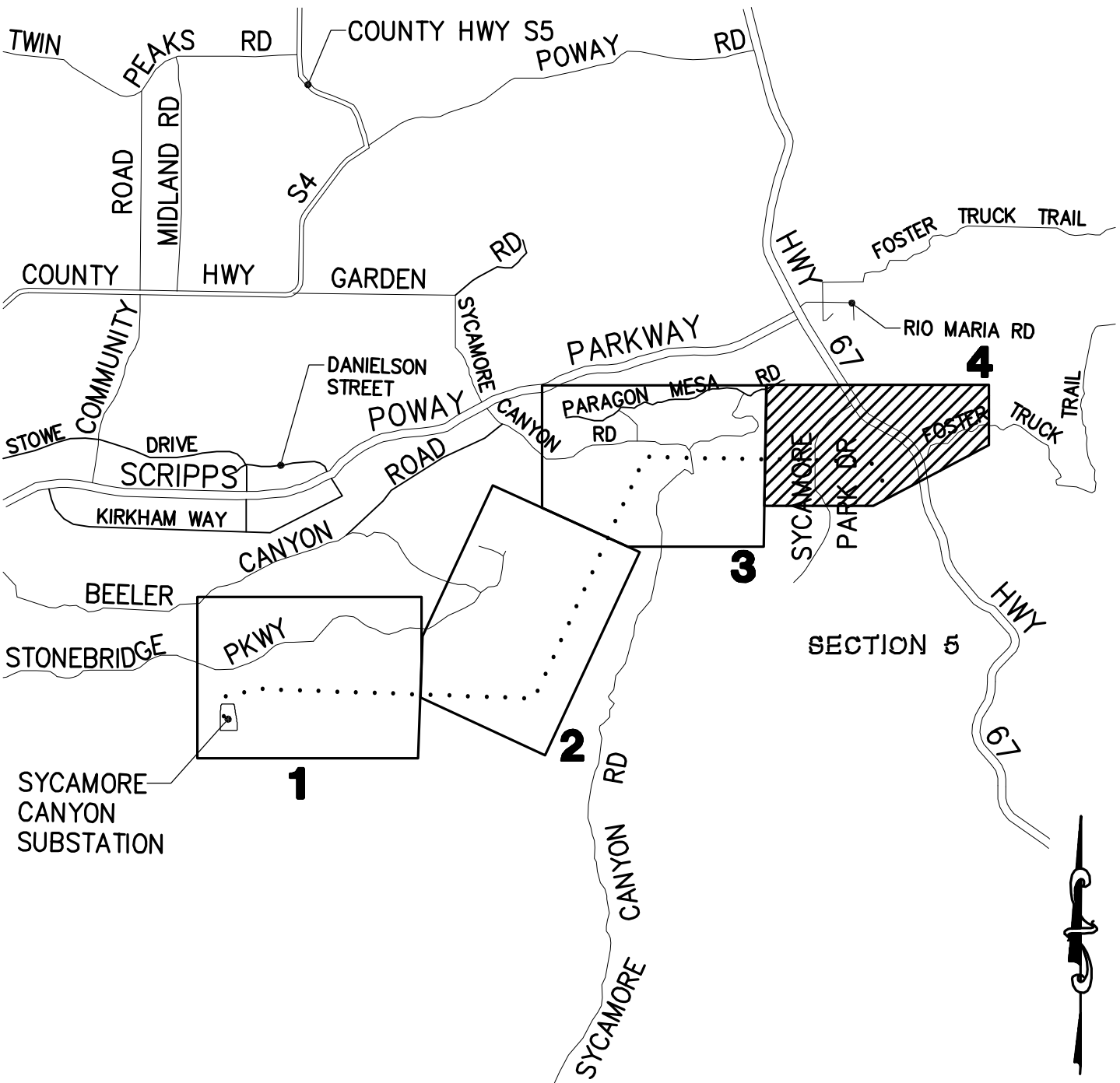


LEGEND

- 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

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SECTION 4A
LOCATION MAP

QUANTITIES:

- 1 LENGTH OF ACCESS ROAD: 4,016 LF

REVISIONS

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SAN DIEGO, CALIFORNIA

SPL-4A (LINK 5)

KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

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

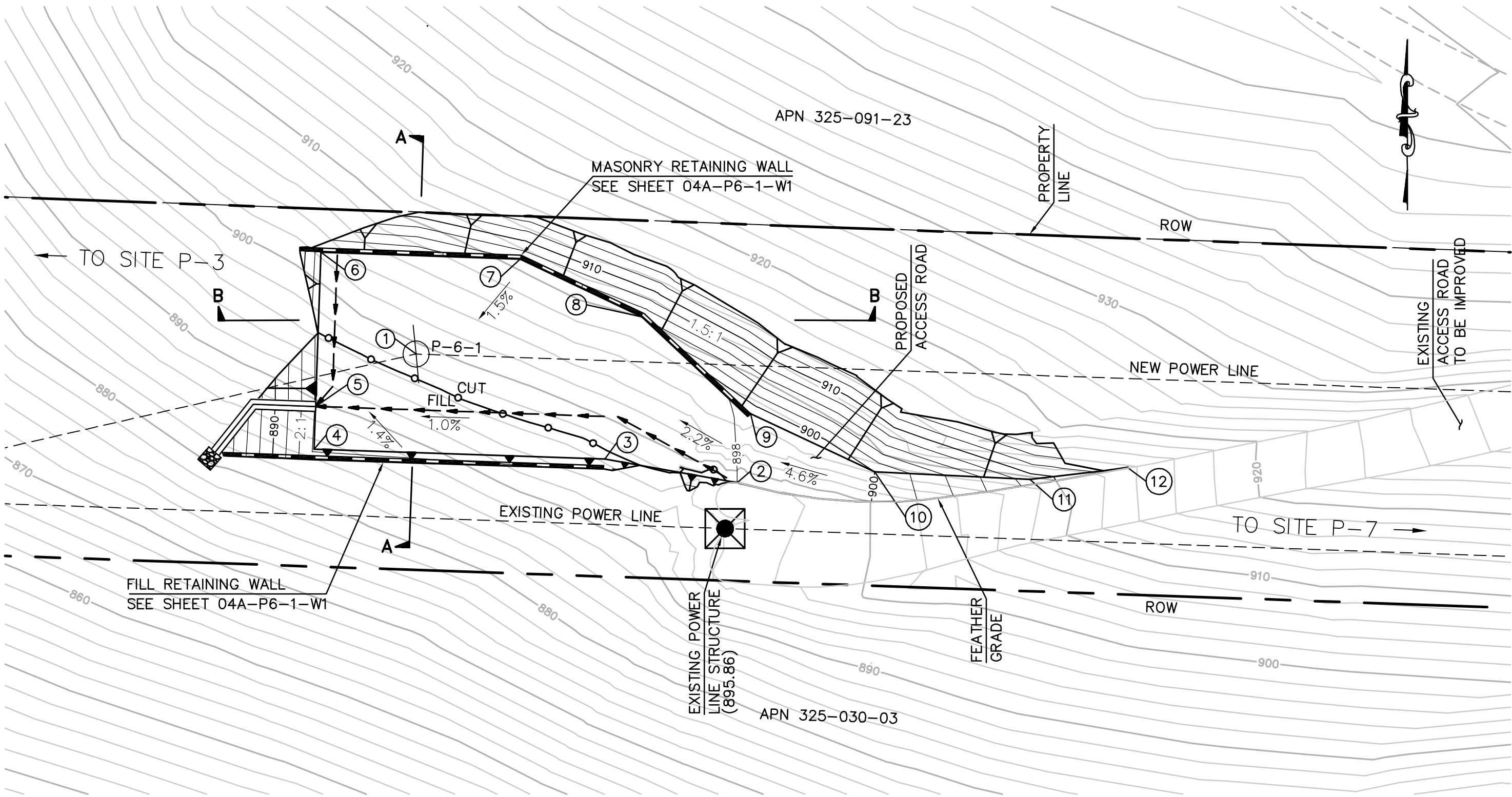
04A-P27-P32-2-KEY04



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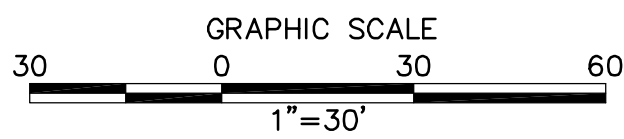


EARTH QUANTITIES: CUT: 1,813 CY
FILL: 317 CY
NET: 1,496 CY

DISTURBED AREA: PAD: 12,867 SF
TOTAL: 12,867 SF

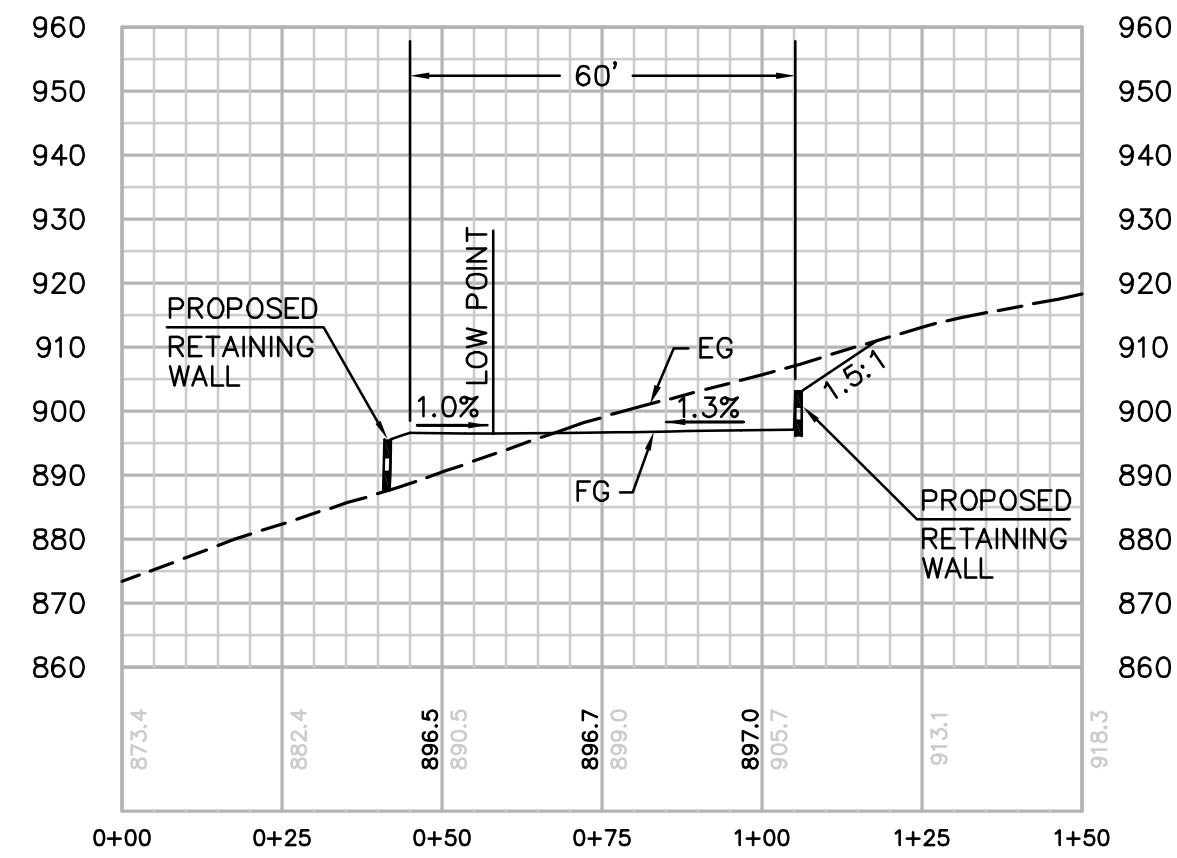
QUANTITIES: RIP RAP: 25 SF
DOWN DRAIN: 37 LF

SITE P-6-1 PLAN
SCALE: 1" = 30'

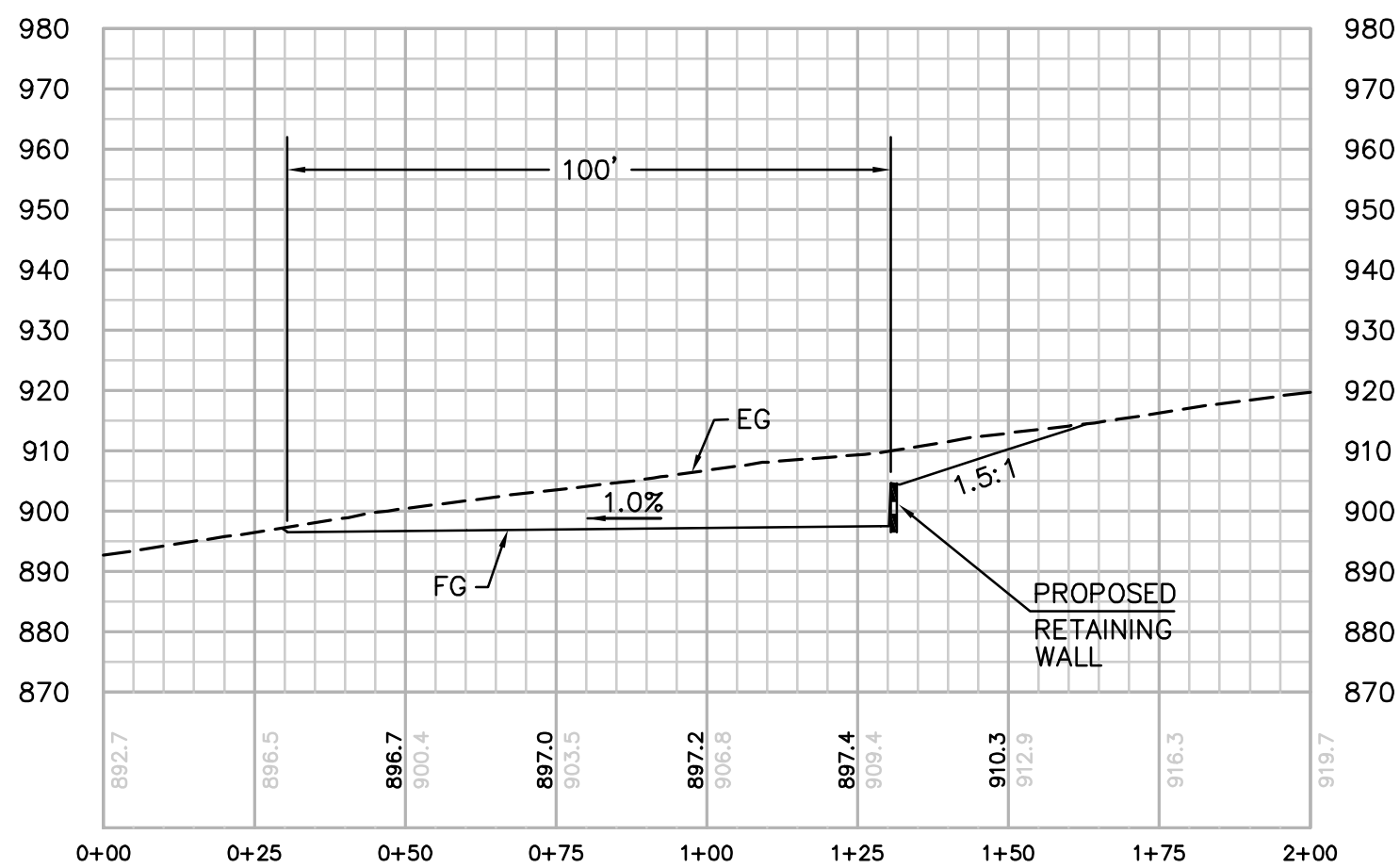


STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-6-1	230 KV DC Strain Steel Pole	14'49'43"	125.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1915352.57	6323017.35	896.68 (899.01)	P-6-1
2	1915313.39	6323115.21	(898.00)	FG
3	1915320.57	6323074.89	897.17	FG
4	1915323.63	6322986.33	896.28	FG
5	1915336.62	6322986.78	896.15	FL
6	1915383.59	6322988.40	896.81	FG
7	1915381.50	6323049.09	897.34	FG
8	1915363.87	6323086.22	897.50	FG
9	1915334.42	6323119.25	898.14	FG
10	1915316.68	6323157.07	900.00	FG
11	1915314.41	6323204.41	908.85	FG
12	1915317.85	6323234.33	(913.64)	FG



SECTION A-A
HORIZ. & VERT. SCALE: 1" = 30'



SECTION B-B
HORIZ. & VERT. SCALE: 1" = 30'

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SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-04A (LINK 5)

SITE P-6-1

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

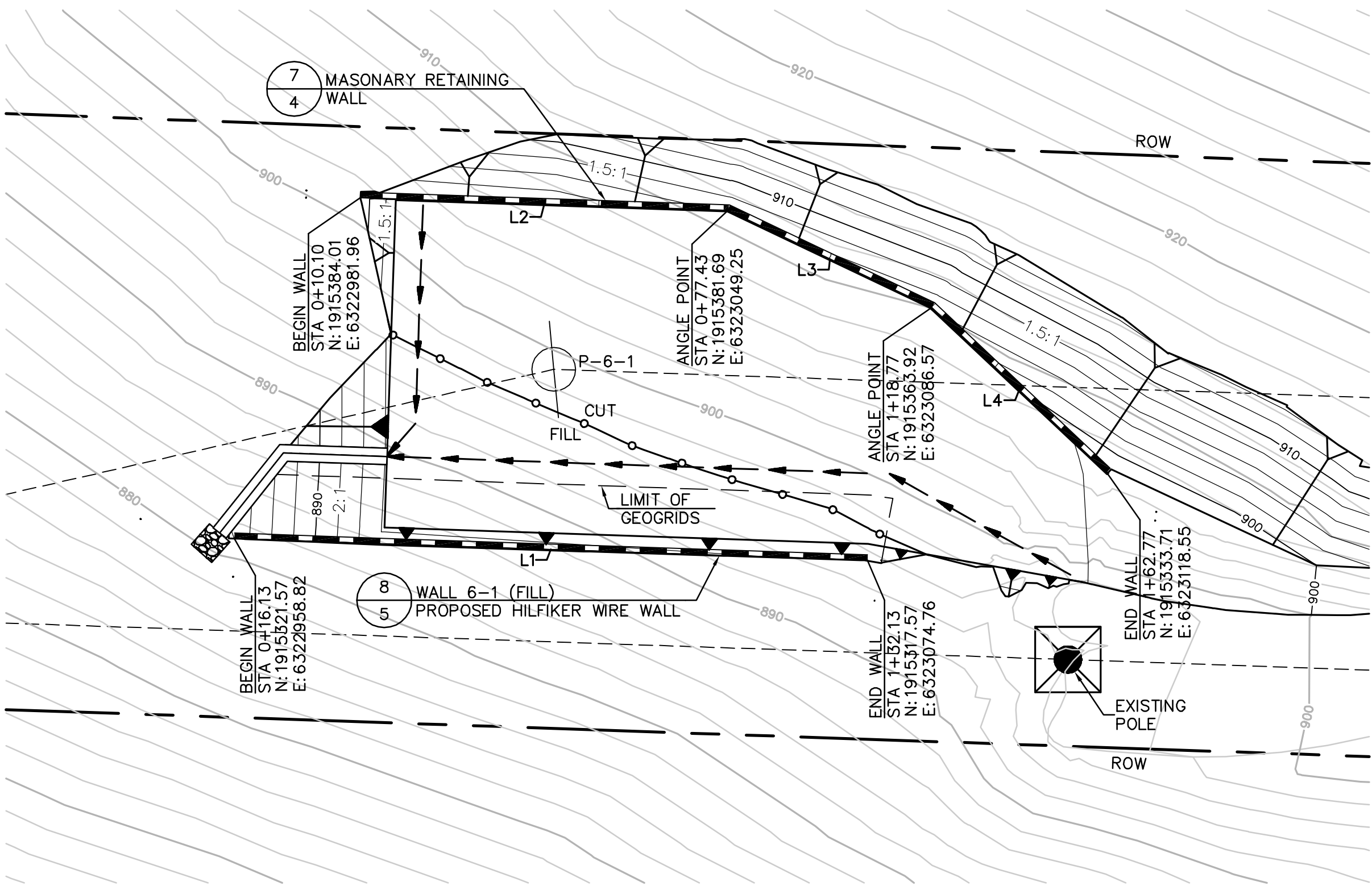
04A-P6-1-S1



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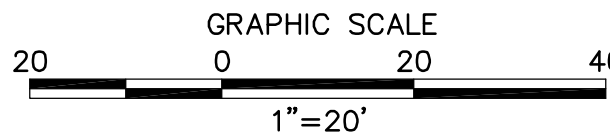


CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		116.00	S88°01'25"E
L2		67.33	S88°01'25"E
L3		41.33	S64°32'34"E
L4		44.00	S46°37'29"E



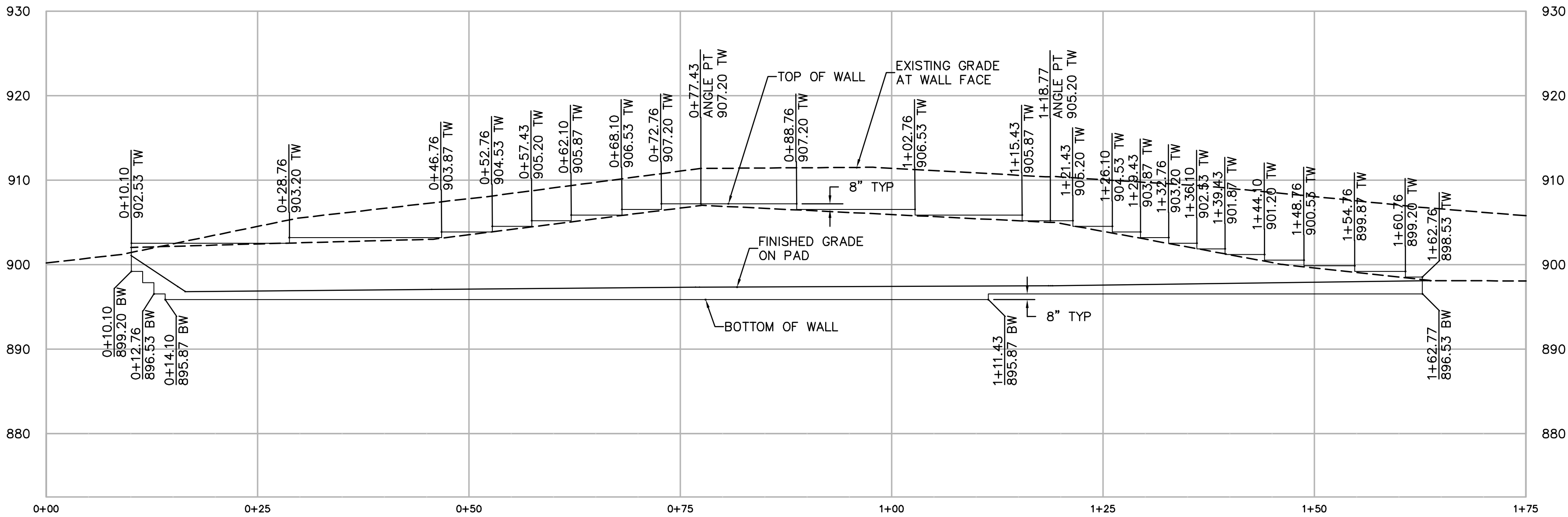
SITE P6-1 WALL PLAN

SCALE: 1" = 20'



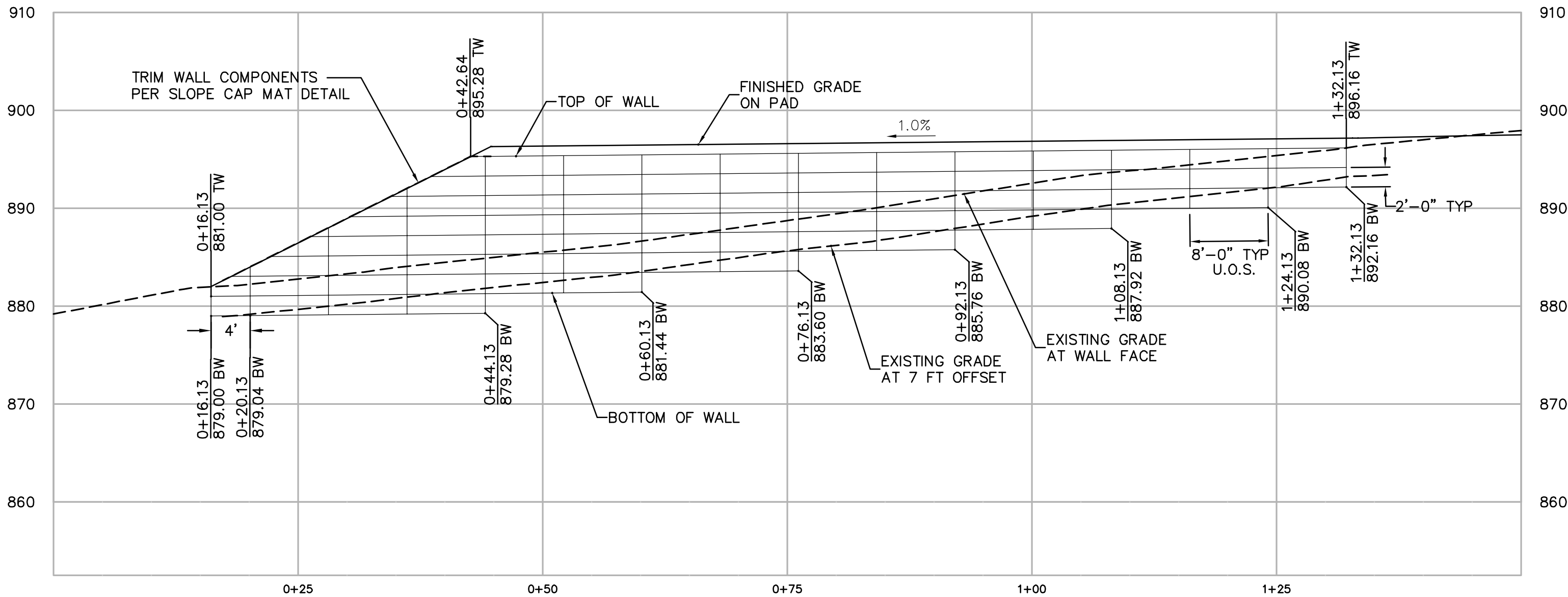
SEE SHEET 04A-P6-1-S1
FOR PAD AND ROAD DETAILS

ALL QUANTITIES RELATED TO RETAINING
WALLS WILL BE THE CONTRACTORS
RESPONSIBILITY TO OBTAIN.



SITE P6-1 CUT WALL PROFILE

SCALE: 1" = 10' HORIZ. & VERT.
U.O.S. = UNLESS OTHERWISE SHOWN



SITE P6-1 FILL WALL PROFILE

SCALE: 1" = 10' HORIZ. & VERT.
U.O.S. = UNLESS OTHERWISE SHOWN

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-04A (LINK 5)

SITE P6-1 WALL PLAN

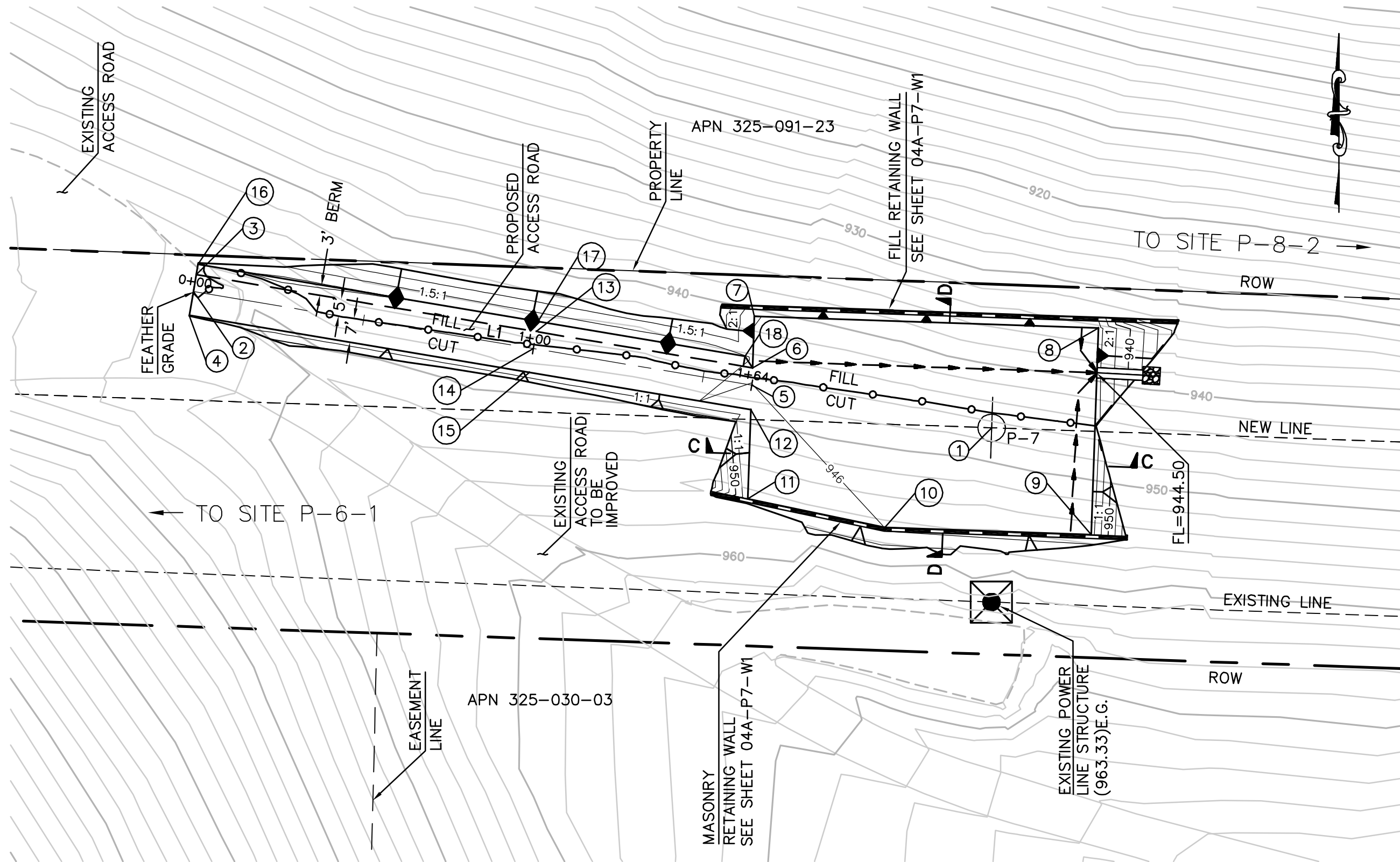
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CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO:	PLOT SCALE: 1 = 1			

04A-P6-1-W1



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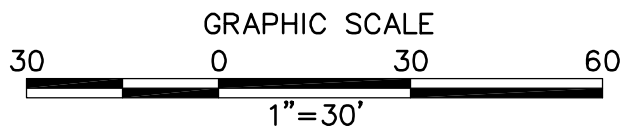
EARTH QUANTITIES:
CUT: 828 CY
FILL: 589 CY
NET: 239 CY

DISTURBED AREA:
PAD: 7,177 SF
ROAD: 3,891 SF
TOTAL: 11,068 SF

QUANTITIES:
RIP RAP: 25 SF
DOWN DRAIN: 12 LF
LENGTH OF ACCESS ROAD: 164 LF

SITE P-7 PLAN

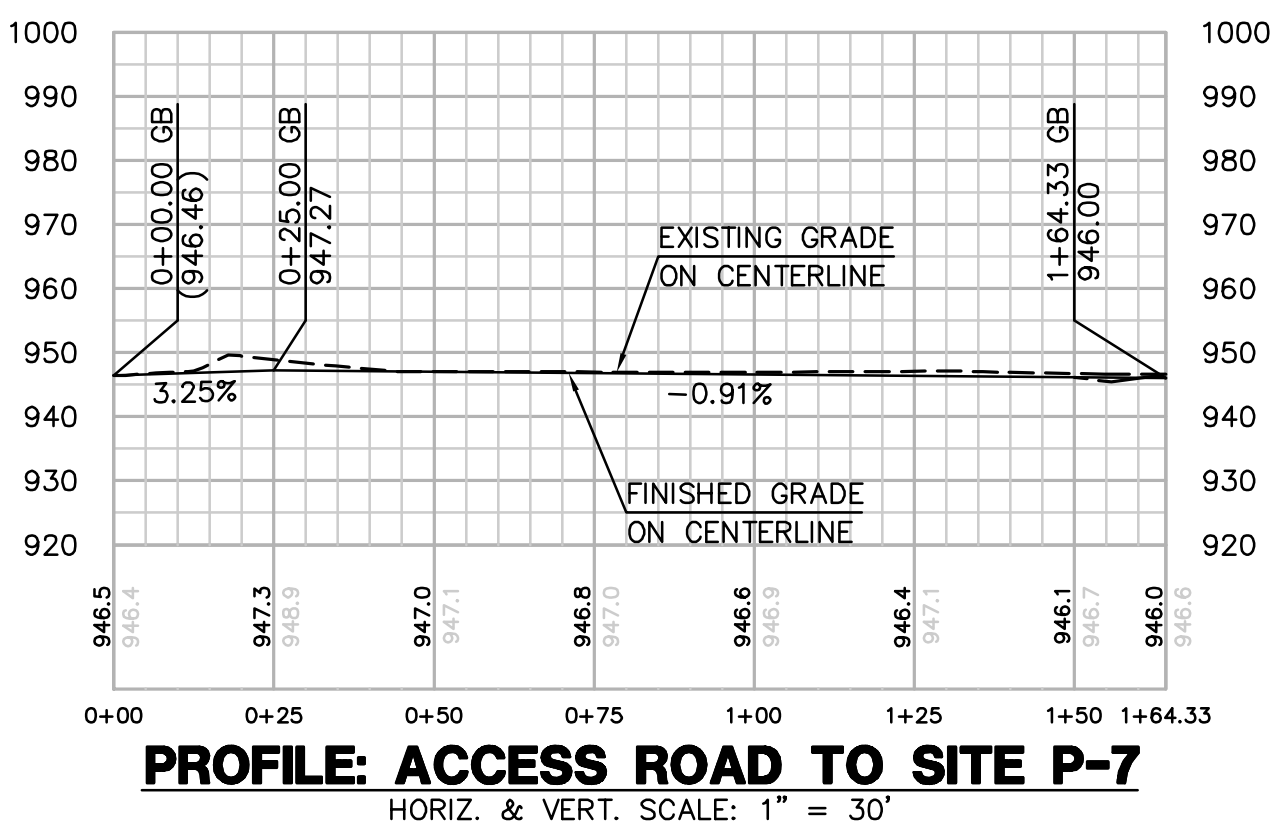
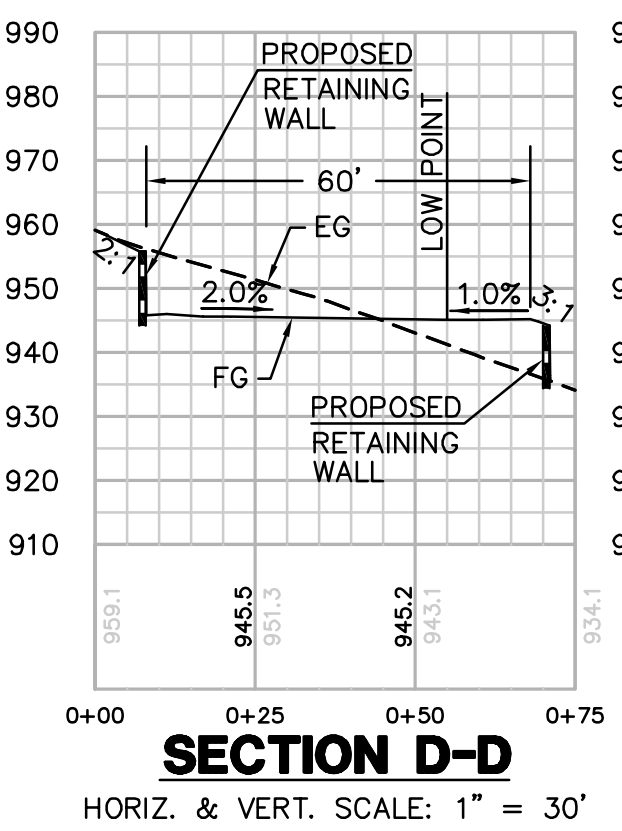
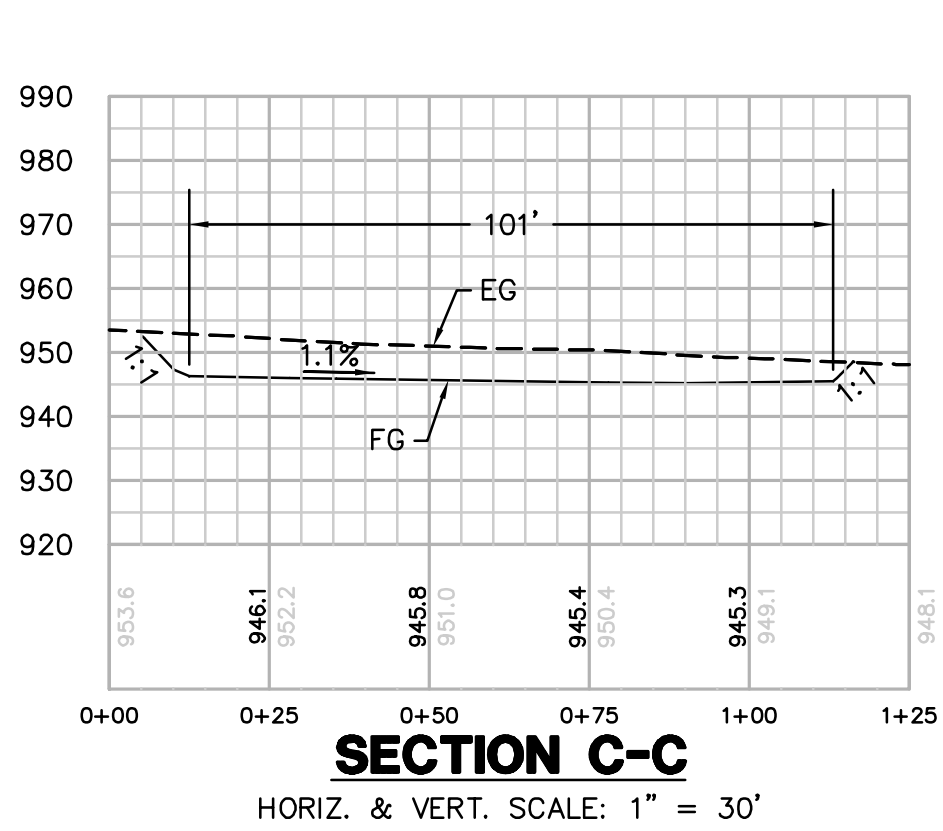
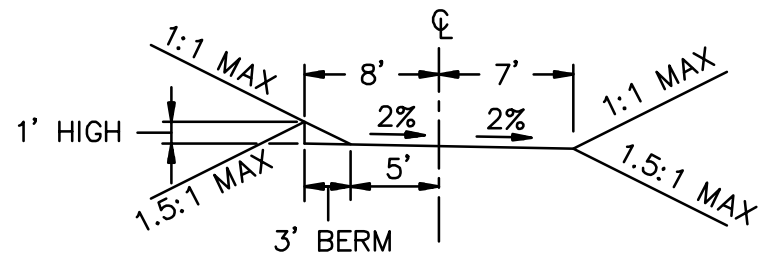
SCALE: 1" = 30'



STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-7	230 KV DC Tangent Steel Pole	0.00	135.00

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		164.33	S80°29'00"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1915327.73	6323737.19	945.16 (946.64)	P-7
2	1915367.25	6323505.51	(946.46)	CL/FG
3	1915372.18	6323506.33	(946.56)	FG
4	1915360.14	6323504.32	(946.52)	FG
5	1915340.08	6323667.57	946.00	CL/FG
6	1915345.12	6323667.75	945.94	FG
7	1915360.13	6323668.27	946.03	FG
8	1915356.68	6323768.21	944.63	FG
9	1915296.71	6323766.14	945.16	FG
10	1915298.78	6323706.17	946.00	FG
11	1915307.16	6323666.44	946.46	FG
12	1915333.02	6323667.33	946.10	FG
13	1915355.64	6323604.96	946.69	FG
14	1915350.71	6323604.13	946.59	CL/FG
15	1915343.81	6323602.97	946.45	FG
16	1915375.14	6323506.83	947.56	TOP
17	1915358.60	6323605.45	947.69	TOP
18	1915348.52	6323665.62	946.12	TOP

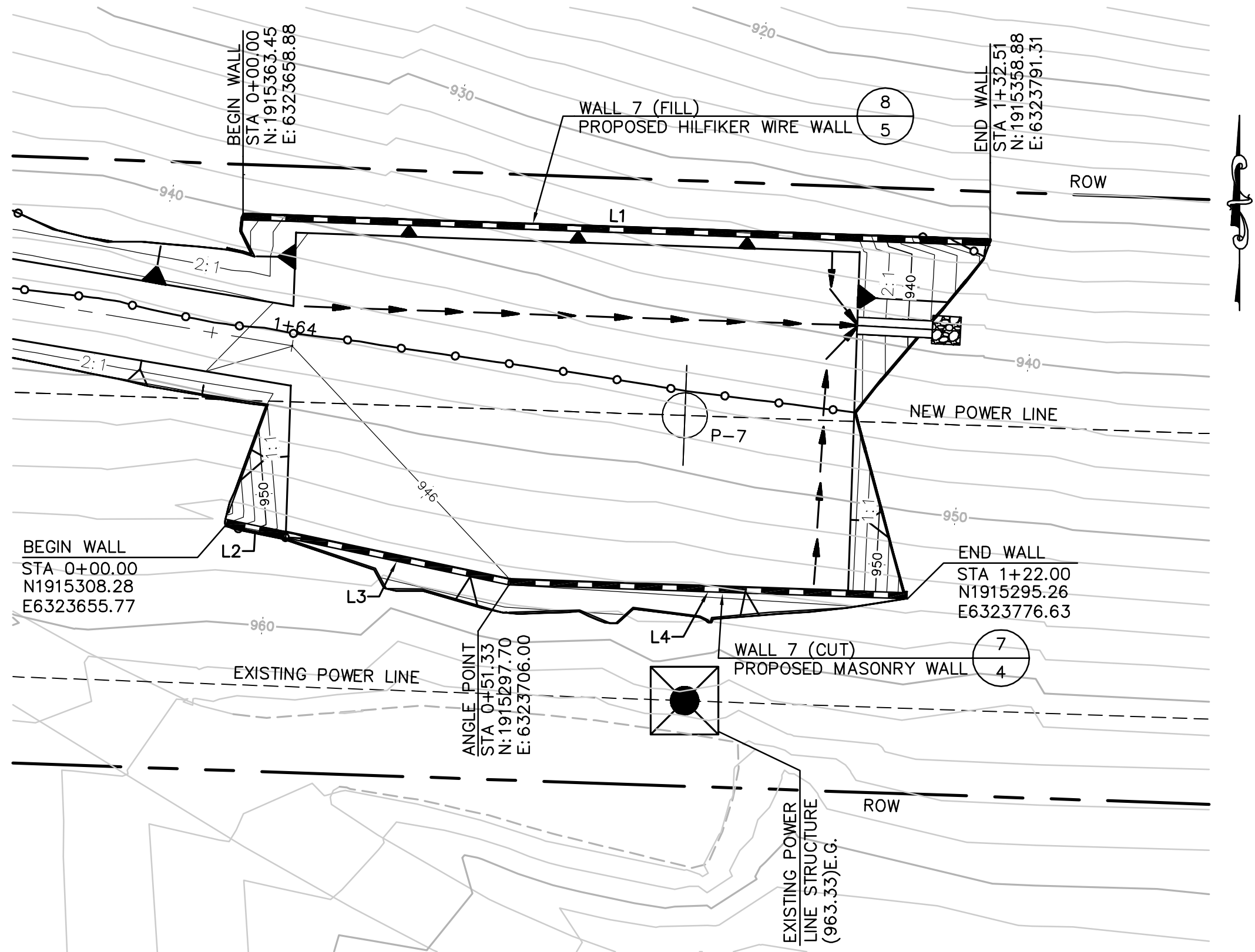


REVISIONS

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SPL-04A (LINK 5) SITE P-7			
DRAWN BY: 00	DATE:	SCALE: 1" = 30' W.O.	REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1 = 1		

04A-P7-S1

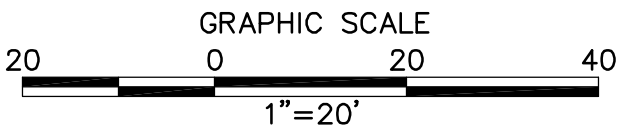


ALL QUANTITIES RELATED TO RETAINING WALLS WILL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN.

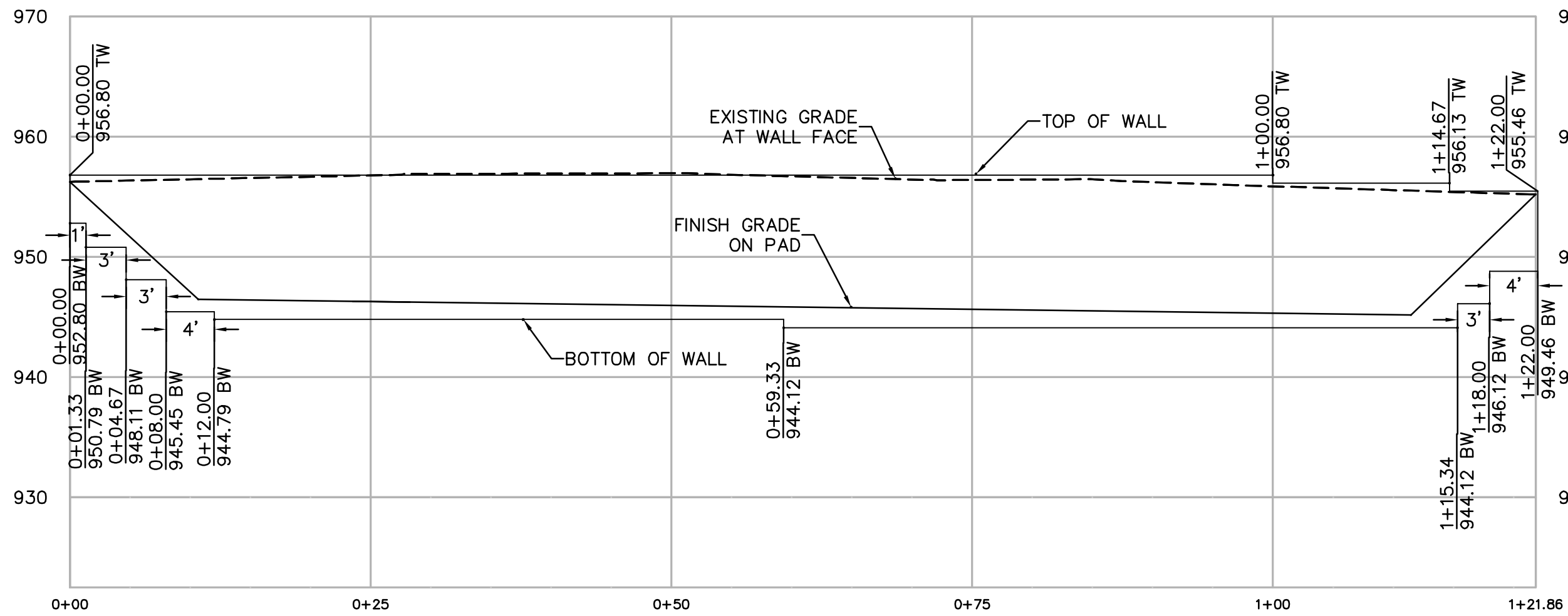
SEE SHEET 04A-P7-S1 FOR PAD AND ROAD DETAILS

SITE P7 WALL PLAN

SCALE: 1" = 20'

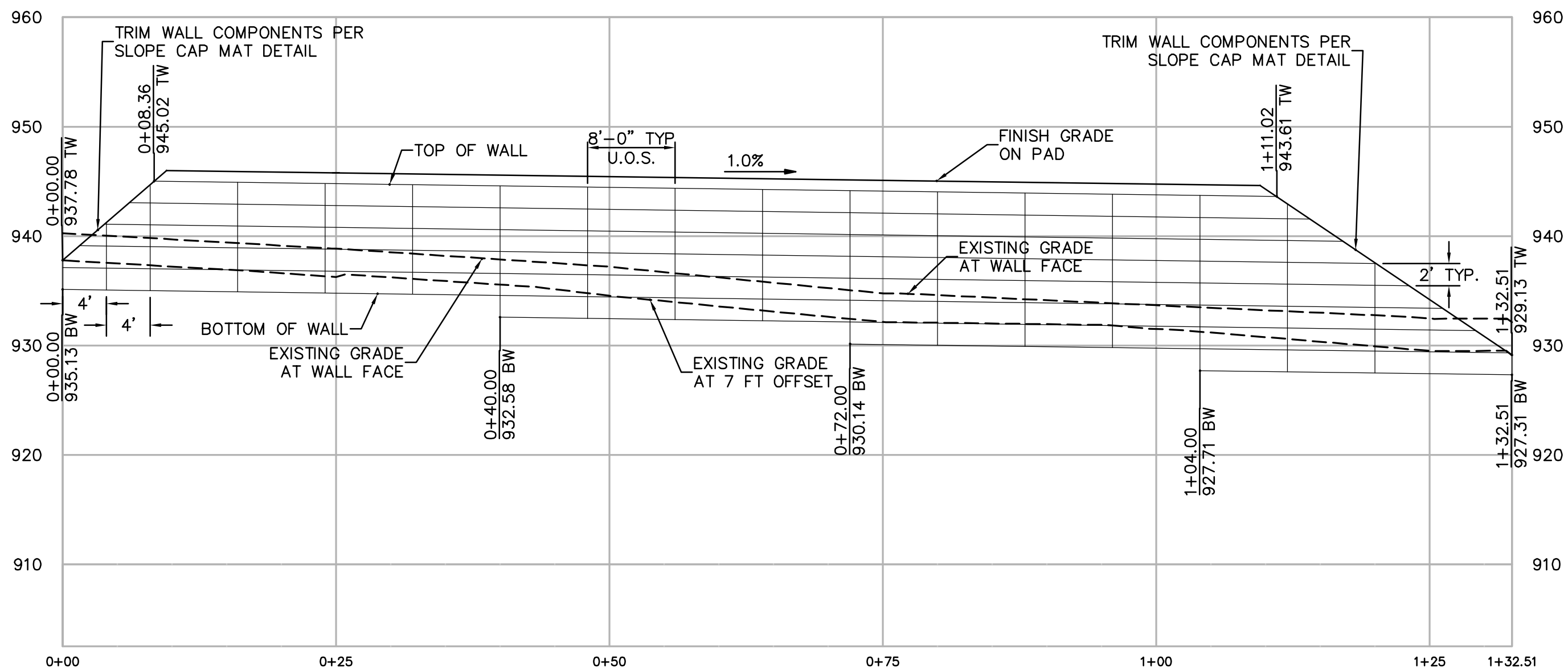


FACE OF WALL DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L2		10.67	S78°05'51"E
L3		40.66	S78°05'51"E
L4		70.67	S88°01'03"E
L1		132.51	S88°01'25"E



SITE P7 CUT WALL PROFILE

SCALE: 1" = 10' HORIZ. & VERT.
U.O.S. = UNLESS OTHERWISE SHOWN



SITE P7 FILL WALL PROFILE

SCALE: 1" = 10' HORIZ. & VERT.
U.O.S. = UNLESS OTHERWISE SHOWN

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-04A (LINK 5)

SITE 7 WALL PLAN

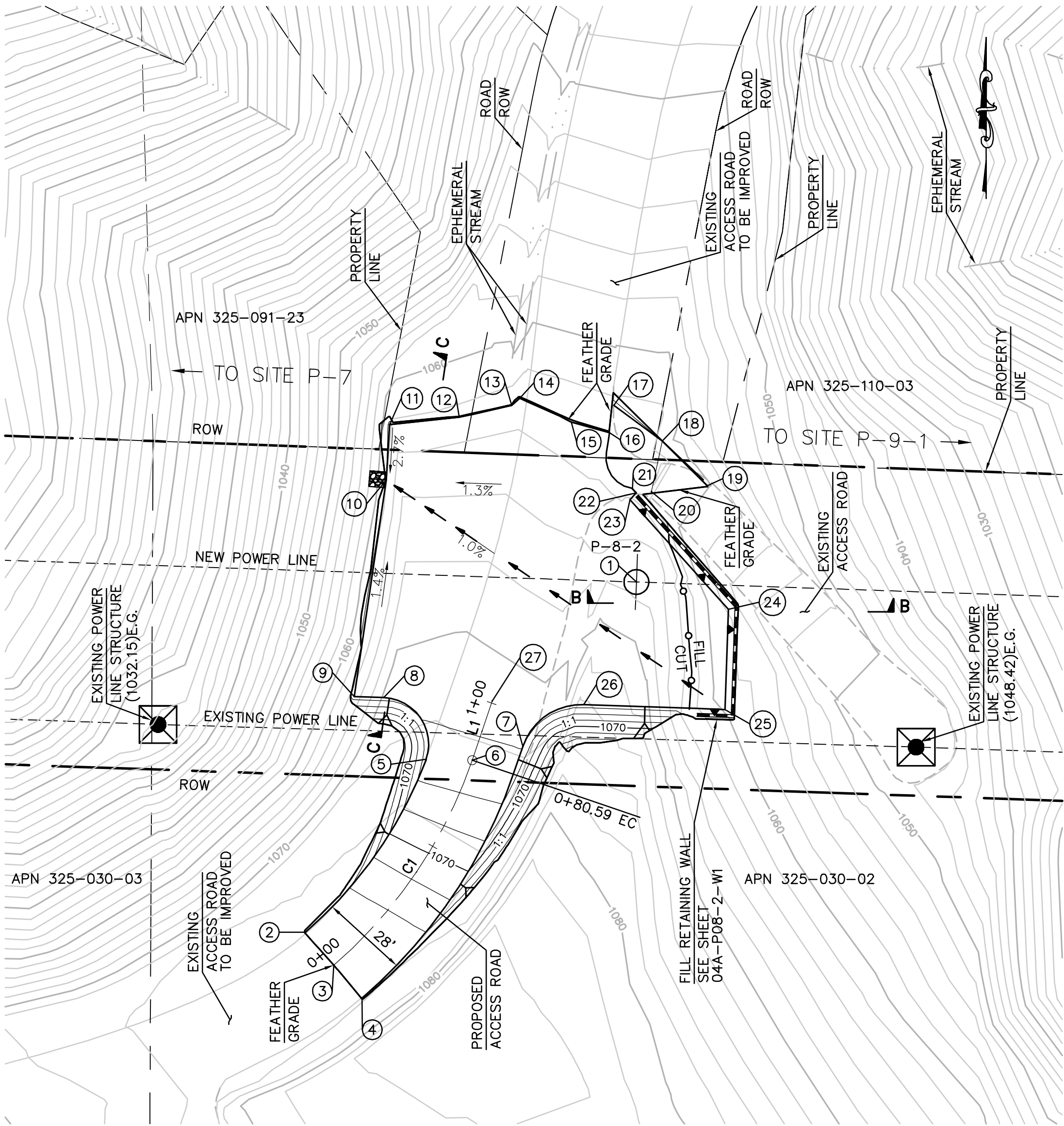
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CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO:	PLOT SCALE: 1 = 1			

04A-P7-W1



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STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-8-2	230 KV DC Tangent Steel Pole	0.00	115.00

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	152.00	80.59	30°22'39"
L1		19.98	N18°45'39"E

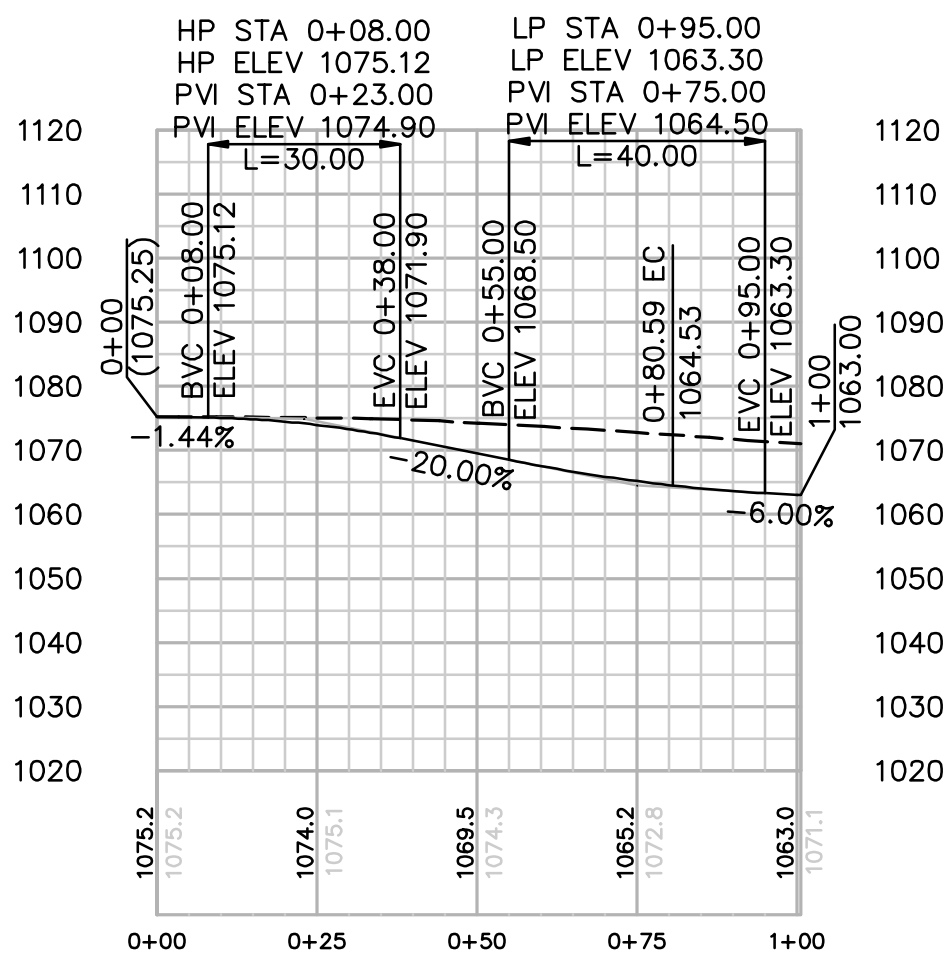
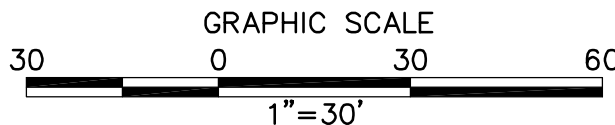
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1915294.73	6324693.41	1062.78 (1067.41)	P-8-2
2	1915181.99	6324586.84	1074.95	EG
3	1915171.38	6324595.98	(1075.25)	CL/BC
4	1915160.78	6324605.13	1075.51	EG
5	1915237.61	6324625.71	1064.90	FG
6	1915237.39	6324640.56	1064.53	CL/EC
7	1915241.76	6324656.85	1063.94	FG
8	1915257.51	6324612.06	1063.00	FG
9	1915257.84	6324602.60	1063.00	FG
10	1915327.53	6324612.93	1062.01	FG
11	1915345.39	6324613.98	1062.50	FG
12	1915347.83	6324636.36	1062.66	FG
13	1915351.59	6324653.32	1062.91	FG
14	1915353.89	6324655.85	(1062.99)	FG
15	1915346.23	6324672.44	(1063.13)	FG
16	1915342.81	6324684.80	(1062.36)	FG
17	1915351.60	6324686.20	(1062.05)	FG
18	1915340.12	6324701.78	1062.00	FG
19	1915325.77	6324716.25	(1060.00)	FG
20	1915323.85	6324698.21	(1062.00)	FG
21	1915324.79	6324692.13	1063.00	FG
22	1915323.40	6324693.39	1063.00	FG
23	1915321.22	6324691.32	1063.00	FG
24	1915285.90	6324723.09	1063.00	FG
25	1915253.69	6324721.96	1063.30	FG
26	1915255.29	6324676.46	1063.00	FG
27	1915256.31	6324646.98	1063.00	CL

EARTH QUANTITIES:
CUT: 2,072 CY
FILL: 77 CY
NET: 1,995 CY

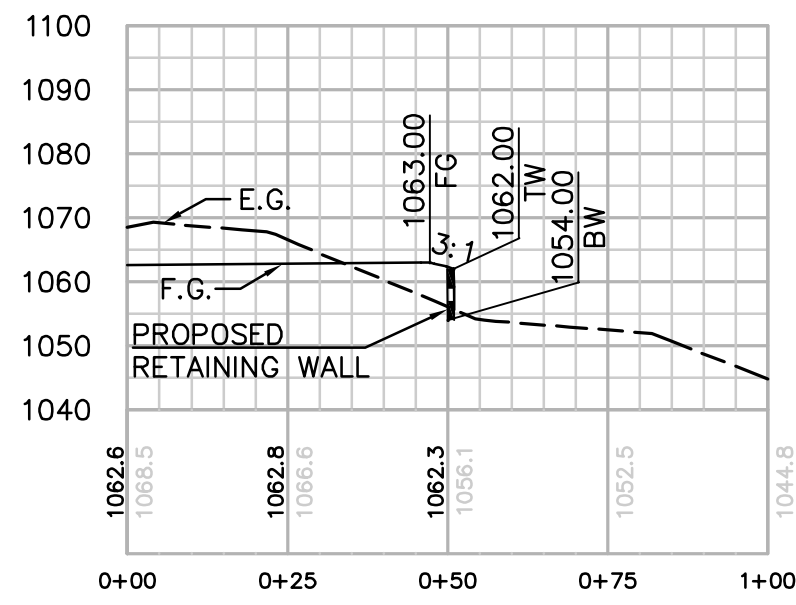
DISTURBED AREA:
PAD: 11,481 SF
ROAD: 3,225 SF
TOTAL: 14,706 SF

QUANTITIES:
RIP RAP: 25 SF
LENGTH OF ACCESS ROAD: 100 LF

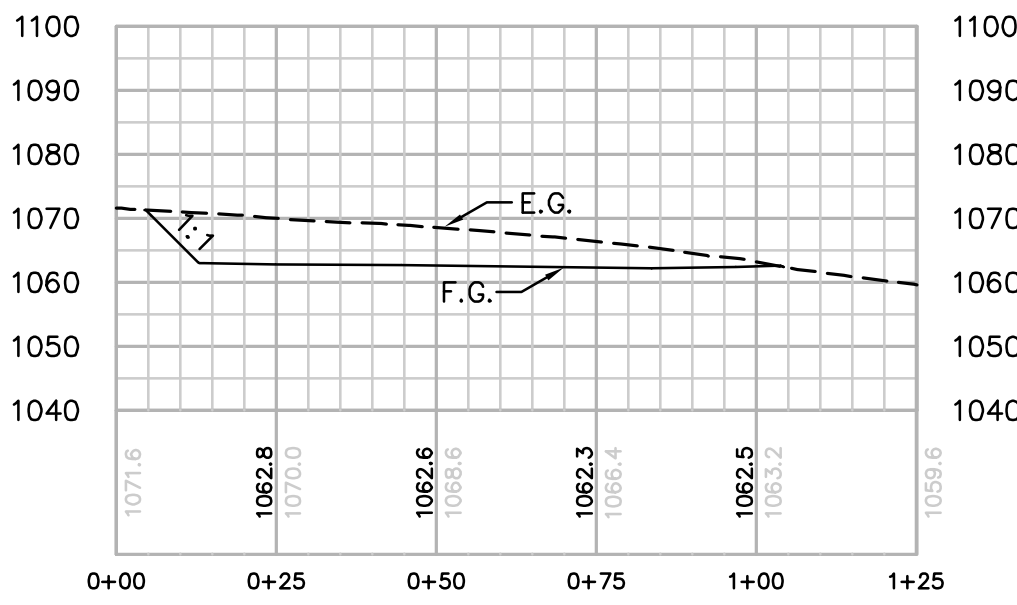
SITE P-8-2 PLAN
SCALE: 1" = 30'



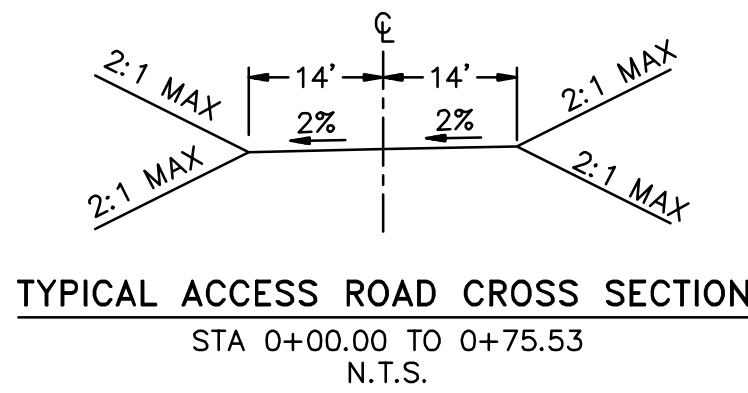
PROFILE: ACCESS ROAD TO SITE P-8-2
HORIZ. & VERT. SCALE: 1" = 30'



SECTION B-B
HORIZ. & VERT. SCALE: 1" = 30'



SECTION C-C
HORIZ. & VERT. SCALE: 1" = 30'



REVISIONS

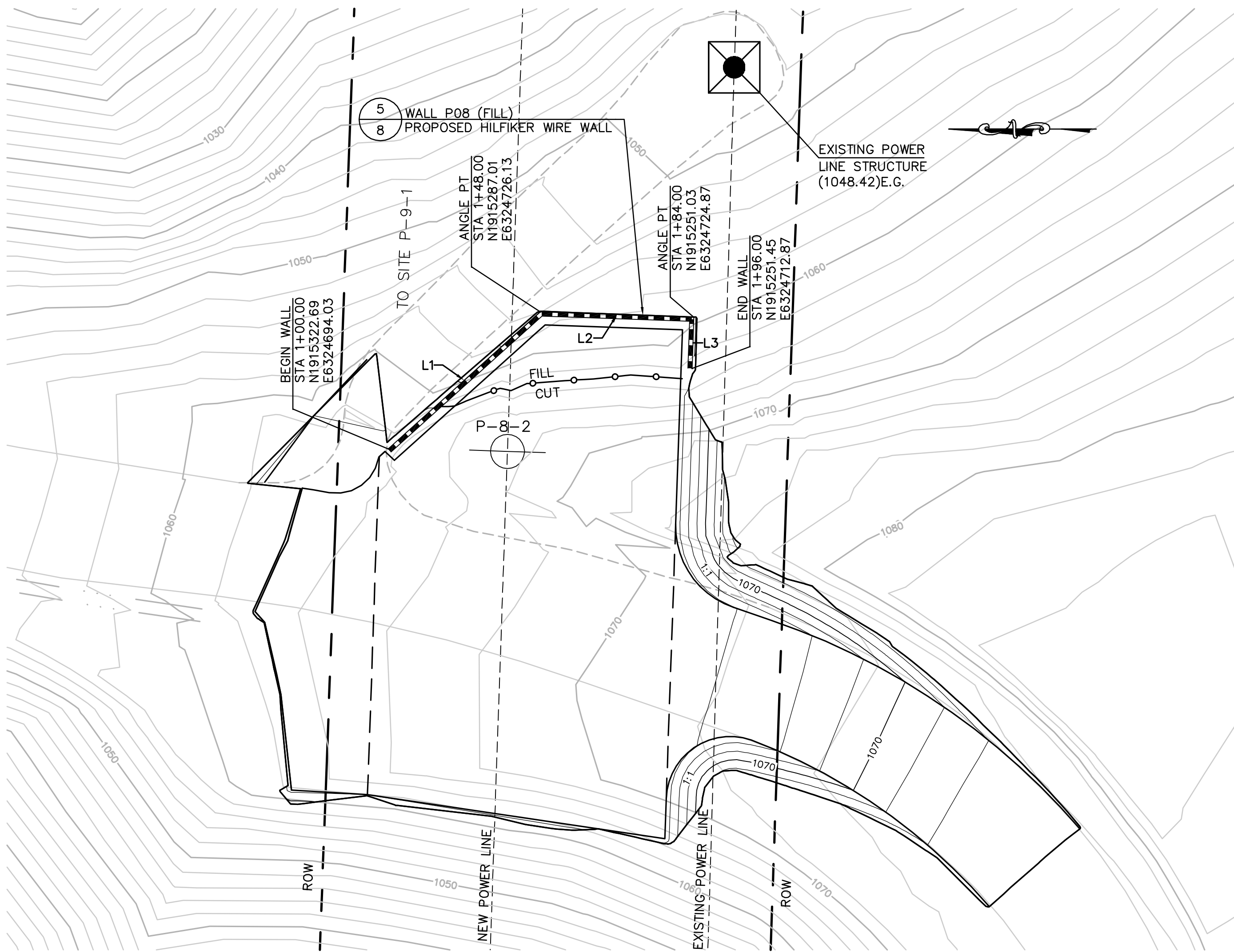
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:



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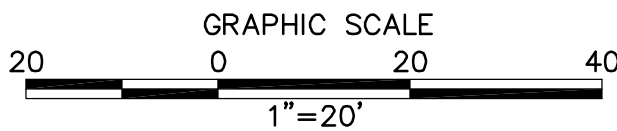
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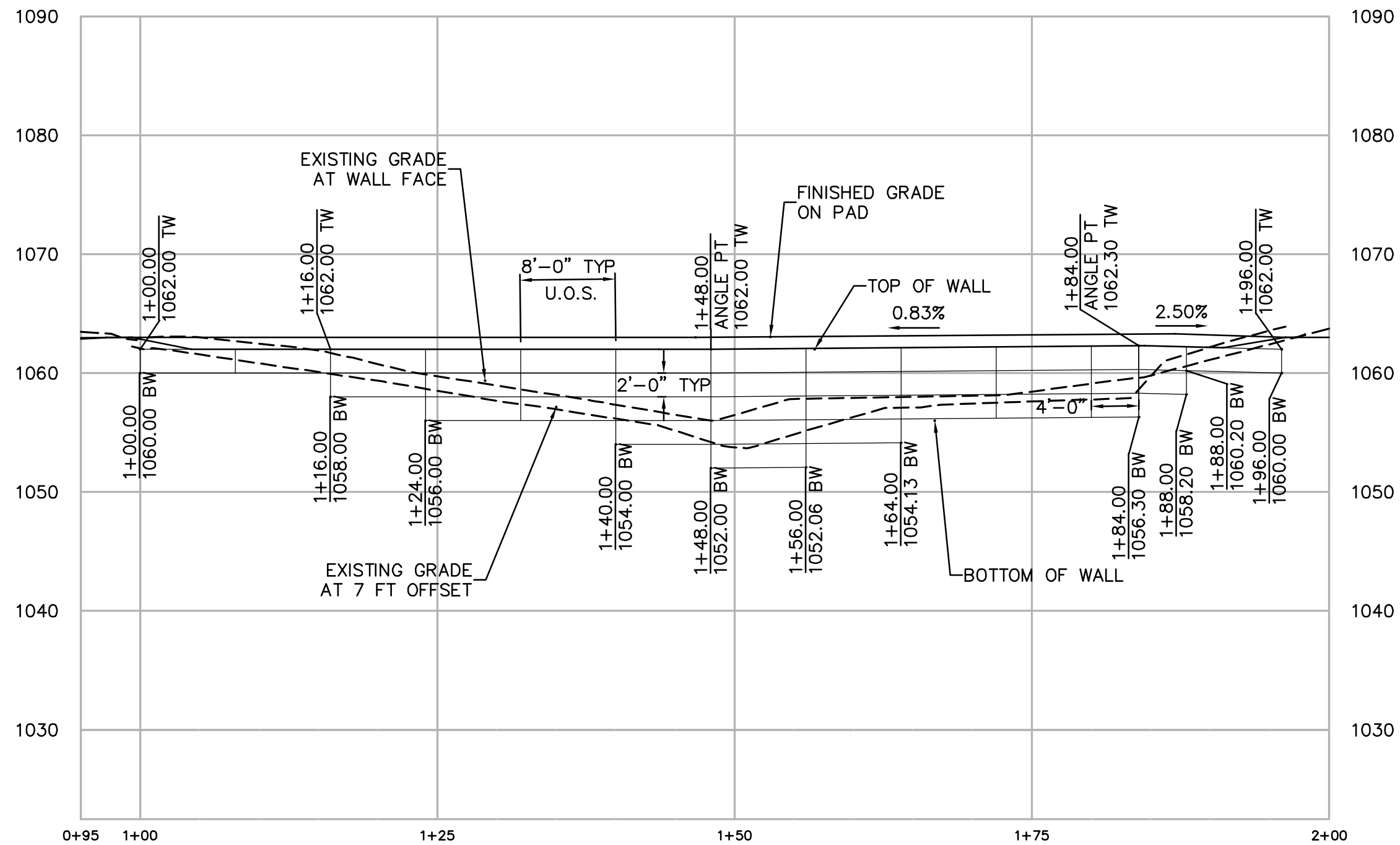
ALL QUANTITIES RELATED TO RETAINING WALLS WILL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN.

SEE SHEET 04A-P8-2-S1 FOR PAD AND ROAD DETAILS

SITE P8-2 WALL PLAN
SCALE: 1" = 20'



FACE OF WALL DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		48.00	S41°58'34"E
L2		36.00	S2°00'39"W
L3		12.00	N87°58'48"W



SITE P8-2 FILL WALL PROFILE
SCALE: 1" = 10' HORIZ. & VERT.
U.O.S. = UNLESS OTHERWISE SHOWN

REVISIONS

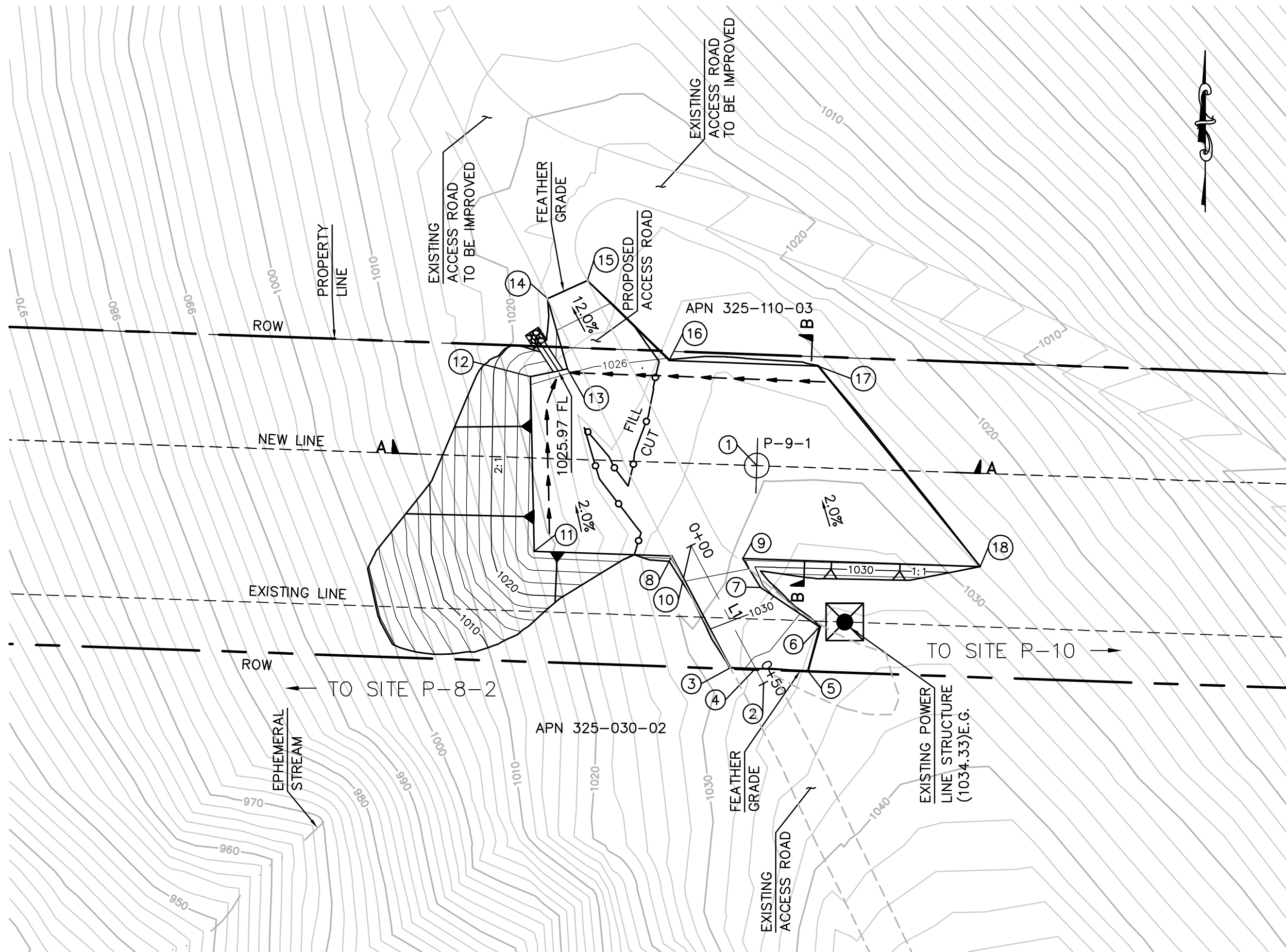
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY SAN DIEGO, CALIFORNIA			
SPL-04A (LINK 5) SITE P8-2 WALL PLAN			
DRAWN BY: 00	DATE:	SCALE:	W.O. REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1 = 1		
04A-P8-2-W1			



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STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-9-1	230 KV DC Tangent Steel Pole	0.00	115.00

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		50.00	S27°46'14"E

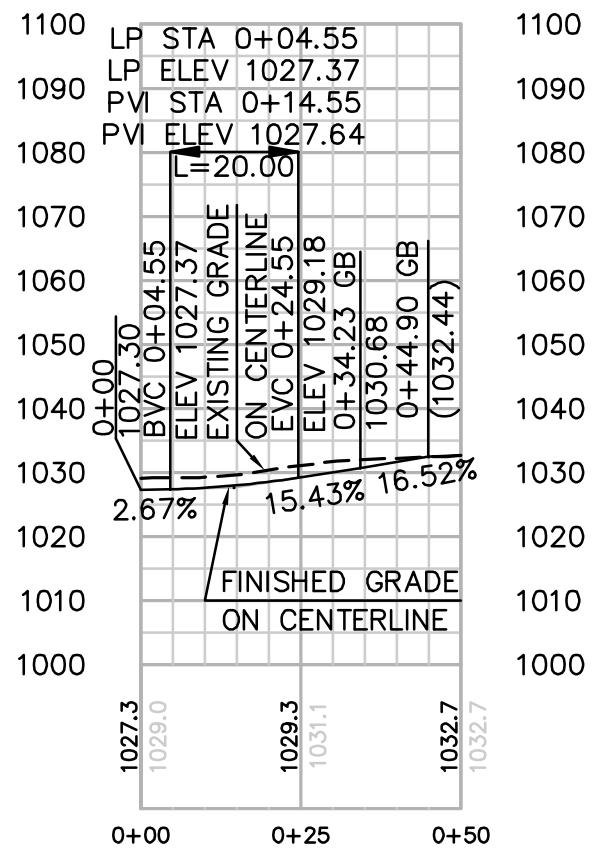
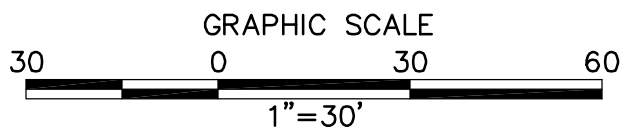
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1915234.25	6326446.30	1026.90 (1029.57)	P-9-1
2	1915164.18	6326448.43	(1032.72)	EG
3	1915169.26	6326437.85	(1031.55)	FG
4	1915168.95	6326445.92	(1032.44)	CL/FG
5	1915168.32	6326462.69	(1034.00)	FG
6	1915182.40	6326466.51	1033.50	FG
7	1915195.03	6326447.52	1029.00	FG
8	1915205.16	6326418.94	1027.27	FG
9	1915204.38	6326441.79	1027.44	FG
10	1915208.43	6326425.14	1027.30	CL/FG
11	1915206.69	6326374.72	1027.05	FG
12	1915262.82	6326373.47	1025.95	FG
13	1915265.35	6326385.38	1025.97	FG
14	1915288.00	6326379.01	(1022.37)	FG
15	1915293.72	6326391.74	(1023.18)	FG
16	1915268.02	6326418.09	1026.08	FG
17	1915266.26	6326466.00	1026.40	FG
18	1915201.75	6326518.13	1027.94	FG

EARTH QUANTITIES:
CUT: 465 CY
FILL: 587 CY
NET: 122 CY

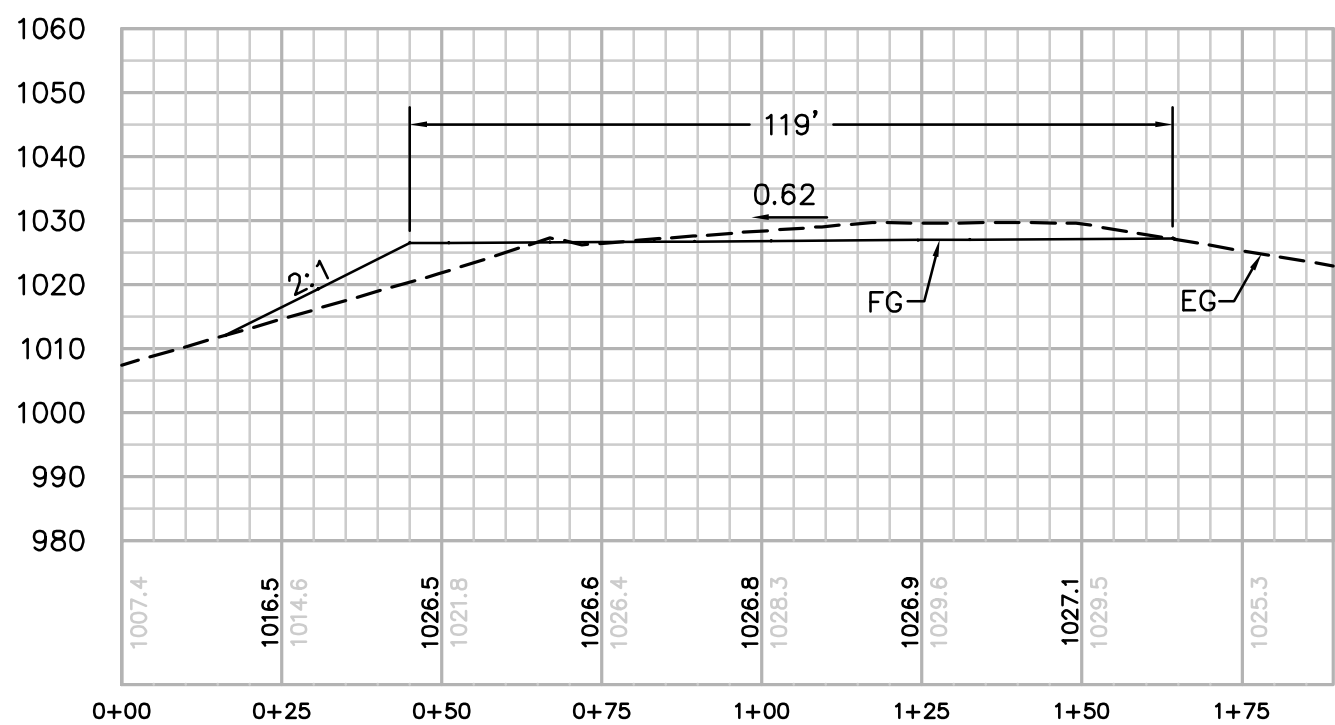
DISTURBED AREA:
PAD: 11,707 SF
ROAD: 1,625 SF
TOTAL: 13,332 SF

QUANTITIES:
RIP RAP: 25 SF
DOWN DRAIN: 10 LF
LENGTH OF ACCESS ROAD: 45 LF

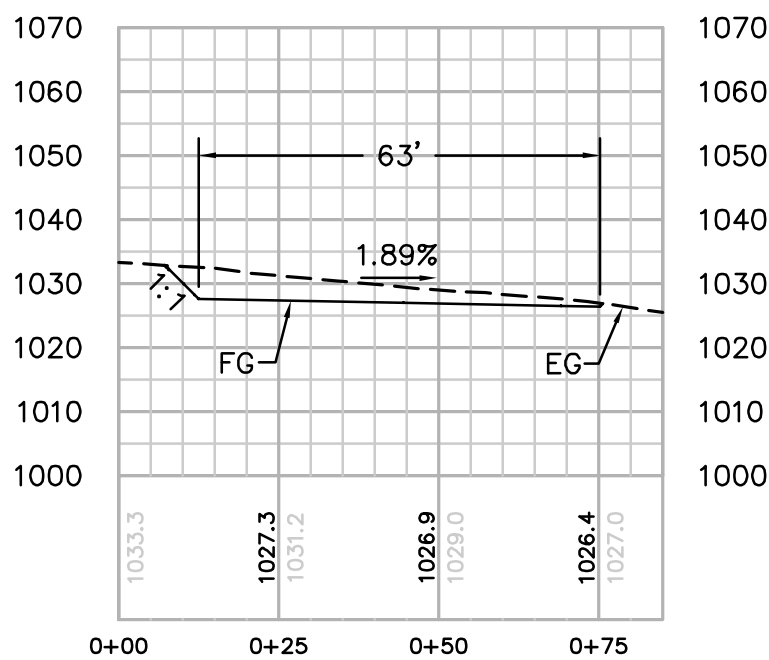
SITE P-9-1 PLAN
SCALE: 1" = 30'



PROFILE: ACCESS ROAD TO SITE P-9-1
HORIZ. & VERT. SCALE: 1" = 30'



SECTION A-A
HORIZ. & VERT. SCALE: 1" = 30'



SECTION B-B
HORIZ. & VERT. SCALE: 1" = 30'

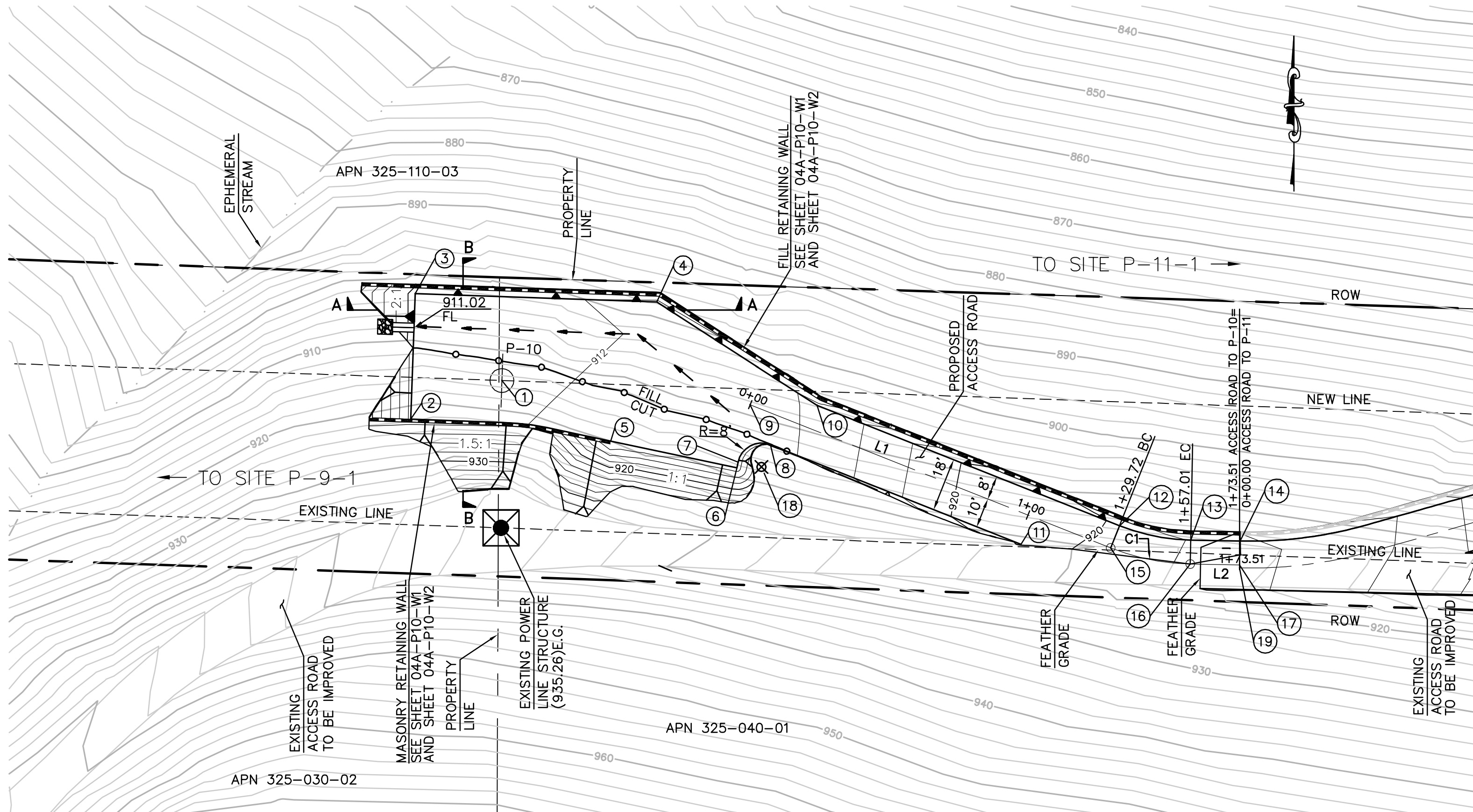
REVISIONS

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-04A (LINK 5)			
SITE P-9-1			
DRAWN BY: 00	DATE:	SCALE: 1" = 30' W.O.	REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1 = 1		

04A-P9-1-S1

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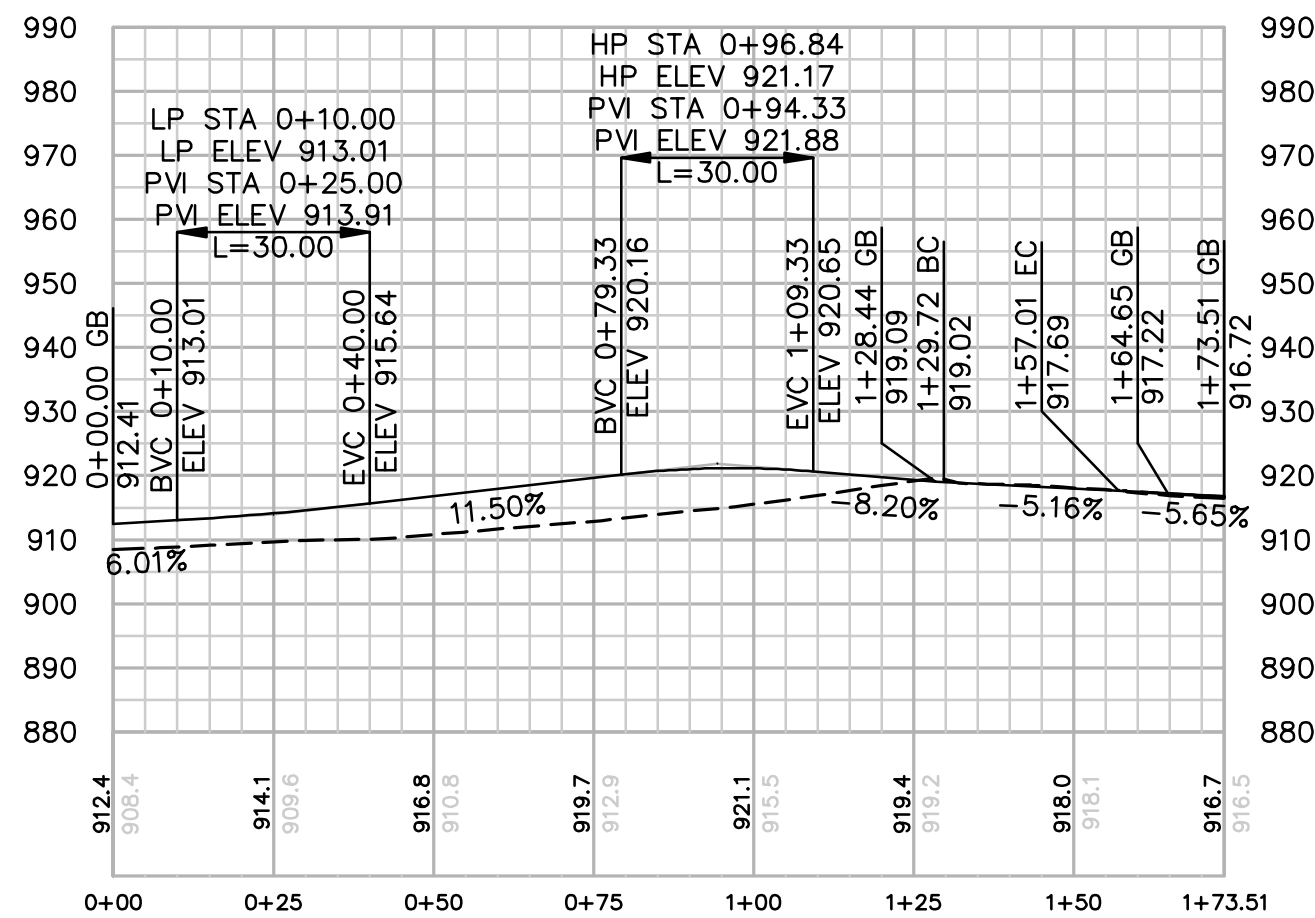
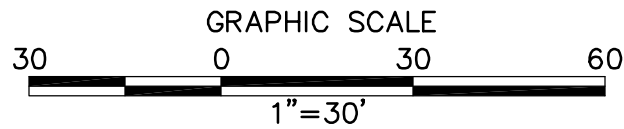


EARTH QUANTITIES:
CUT: 479 CY
FILL: 1,433 CY
NET: 954 CY

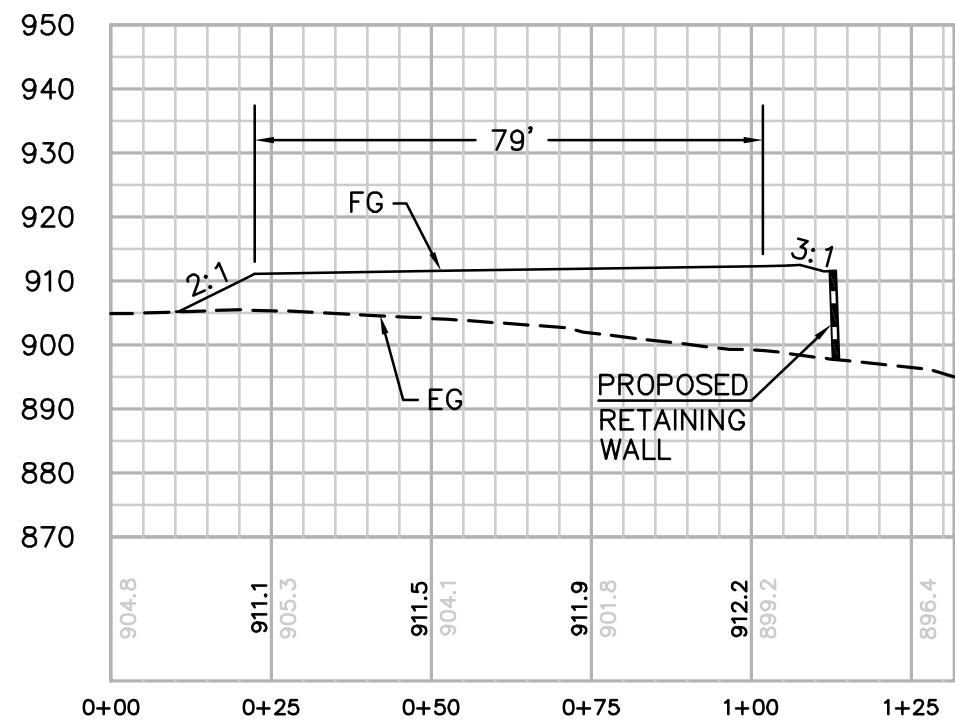
DISTURBED AREA:
PAD: 7,677 SF
ROAD: 2,940 SF
TOTAL: 10,617 SF

QUANTITIES:
RIP RAP: 25 SF
DOWN DRAIN: 7 LF
LENGTH OF ACCESS ROAD: 172 LF

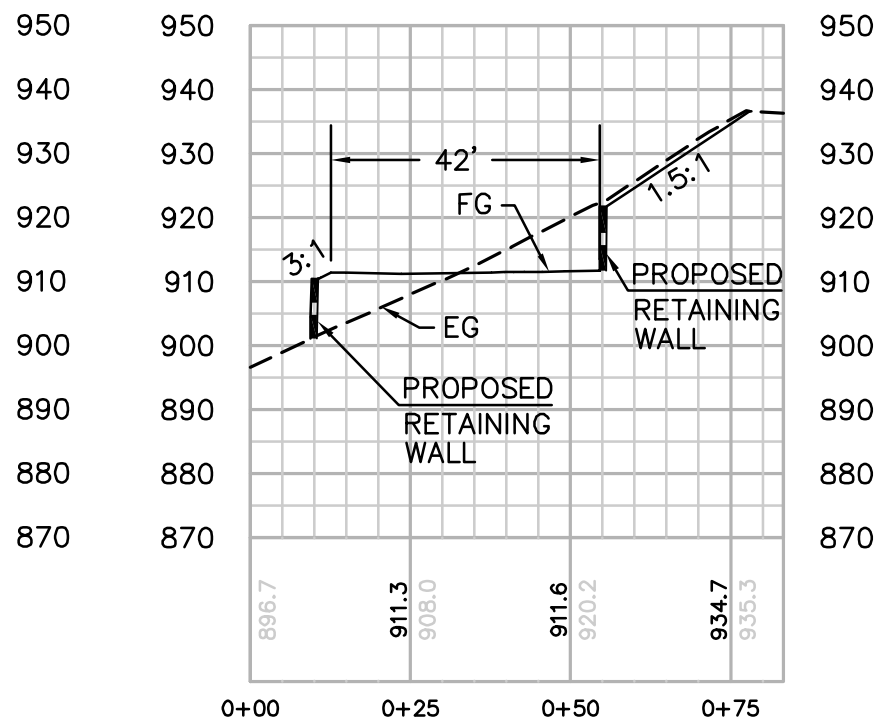
SITE P-10 PLAN
SCALE: 1" = 30'



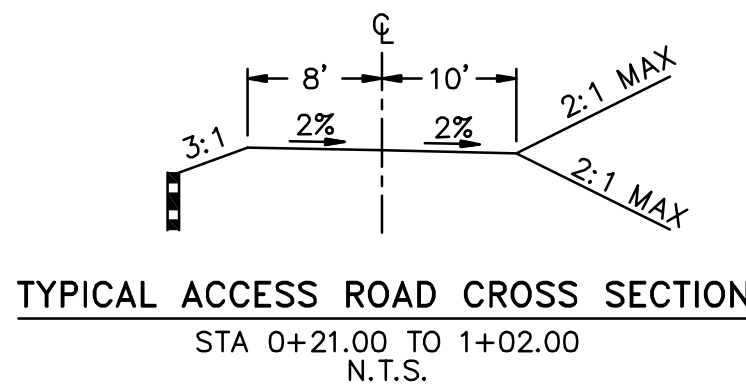
PROFILE: ACCESS ROAD TO SITE P-10
HORIZ. & VERT. SCALE: 1" = 30'



SECTION A-A
HORIZ. & VERT. SCALE: 1" = 30'



SECTION B-B
HORIZ. & VERT. SCALE: 1" = 30'



STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-10	230 KV DC Strain Steel Pole	0.00	120.00

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		129.72	S68°18'51"E
C1	76.00	27.28	20°34'11"
L2		16.50	S88°53'01"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1915213.74	6327040.43	911.68 (914.83)	P-10
2	1915200.78	6327009.97	911.45	FG
3	1915242.76	6327011.41	911.20	FG
4	1915239.97	6327092.26	912.34	FG
5	1915193.48	6327076.85	912.32	FG
6	1915184.54	6327118.99	912.75	FG
7	1915186.46	6327119.40	912.75	FG/BC
8	1915192.24	6327130.18	913.30	FG/EC
9	1915205.67	6327123.47	912.41	CL/FG
10	1915205.39	6327145.82	914.41	FG
11	1915158.90	6327214.02	(921.40)	FG
12	1915165.17	6327246.97	919.18	FG/BC
13	1915160.37	6327270.77	917.85	FG/EC
14	1915160.04	6327287.27	916.90	FG
15	1915157.73	6327244.01	919.02	CL/BC
16	1915152.38	6327270.62	917.69	CL/EC
17	1915152.05	6327287.11	916.72	CL/FG
18	1915184.80	6327127.22		RP
19	1915151.05	6327287.09	916.71	CL/FG

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-04A (LINK 5)
SITE P-10

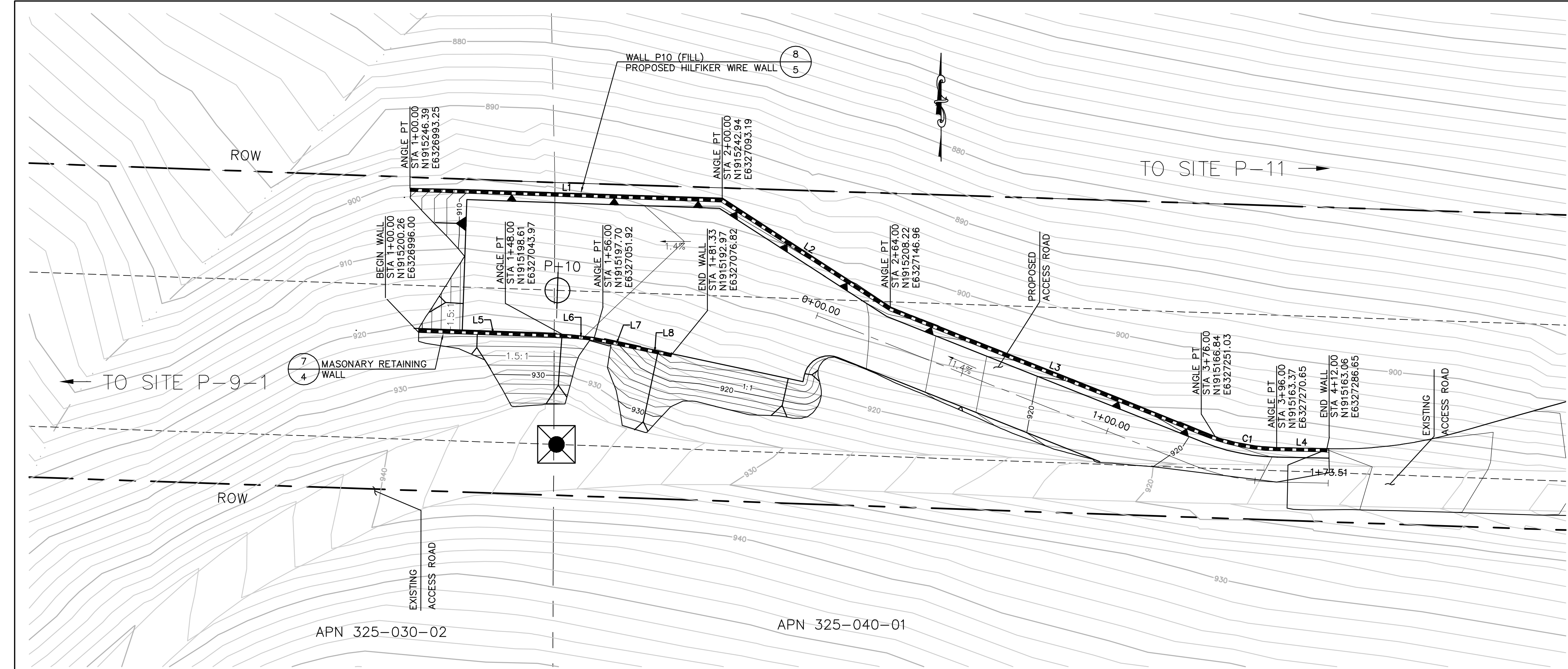
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CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1 = 1		

04A-P10-S1



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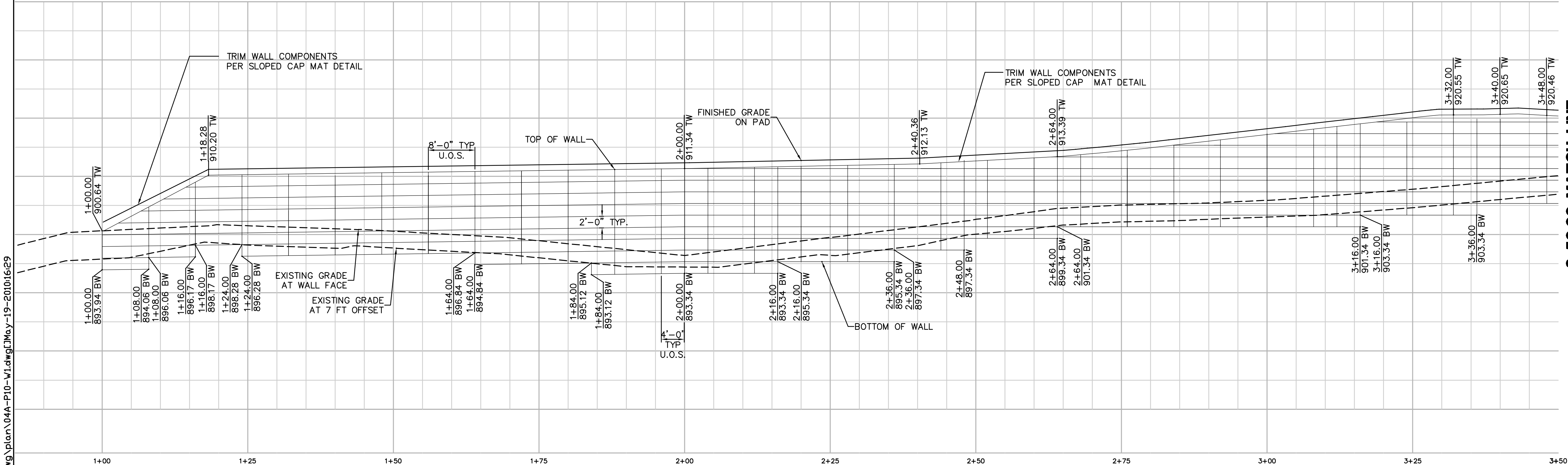
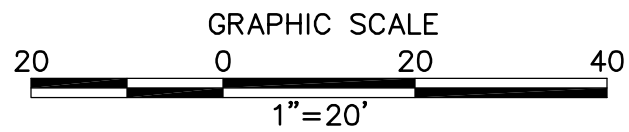


ALL QUANTITIES RELATED TO RETAINING WALLS WILL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN.

SEE SHEET 04A P10-S1 FOR PAD AND ROAD DETAILS

SITE P-10 WALL PLAN

SCALE: 1" = 20'



SITE P-10 FILL WALL PROFILE

SCALE: 1" = 10' HORZ. & VERT.

REVISIONS

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

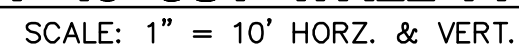
SAN DIEGO GAS & ELECTRIC COMPANY SAN DIEGO, CALIFORNIA			
SPL-04A (LINK 5) SITE P-10 WALL PLAN			
DRAWN BY: 00	DATE:	SCALE:	W.O. REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1 = 1		

04A-P10-W1



SCALE: 1" = 10' HORZ. & VERT.

ALL QUANTITIES RELATED TO RETAINING WALLS WILL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN.



REVISIONS

[illegible]

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-04A (LINK 5)

SITE P-10 WALL PLAN

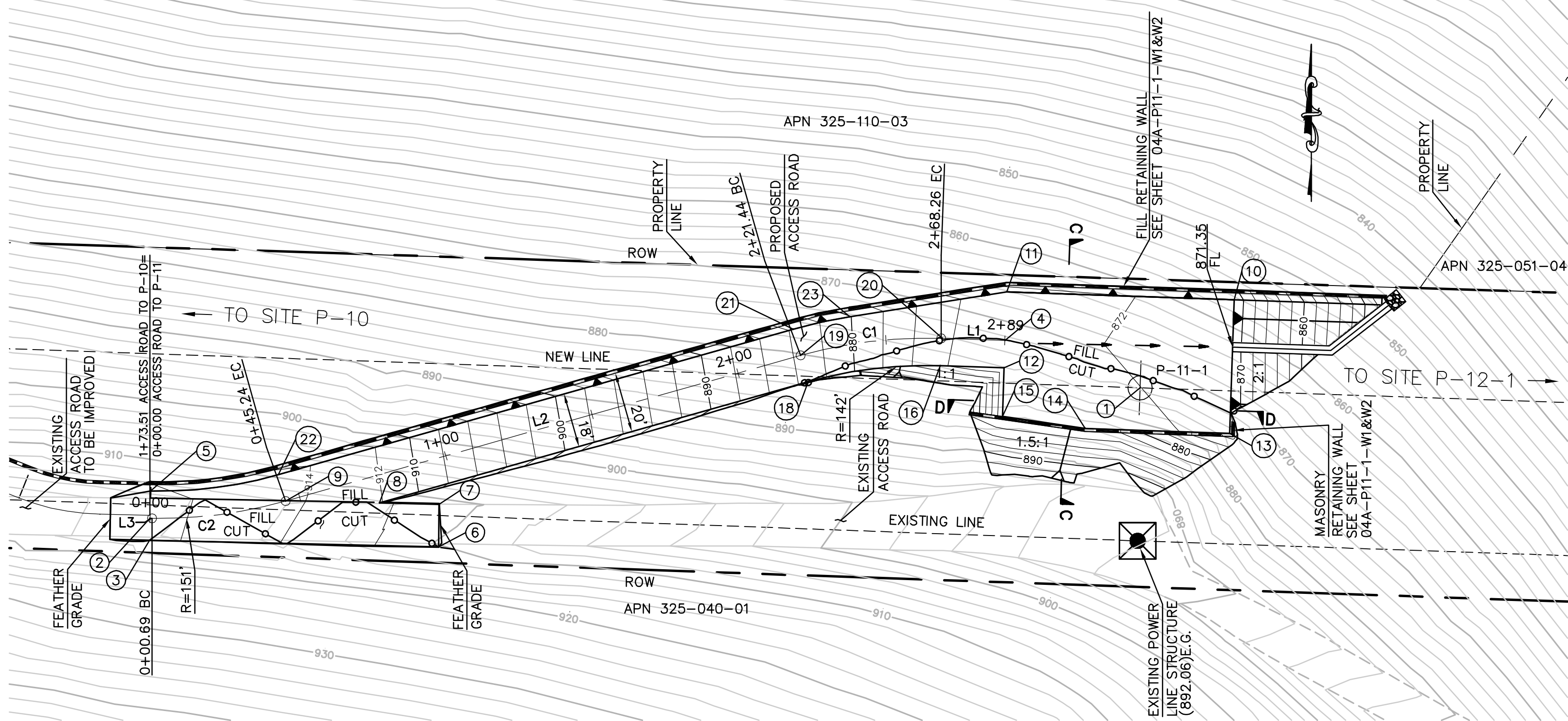
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CHECKED BY:	DATE:		04A-P10-W2	
APPROVED BY:	DATE:			
CAD. NO.:	PLOT SCALE: 1 = 1			



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04A-P10-W2

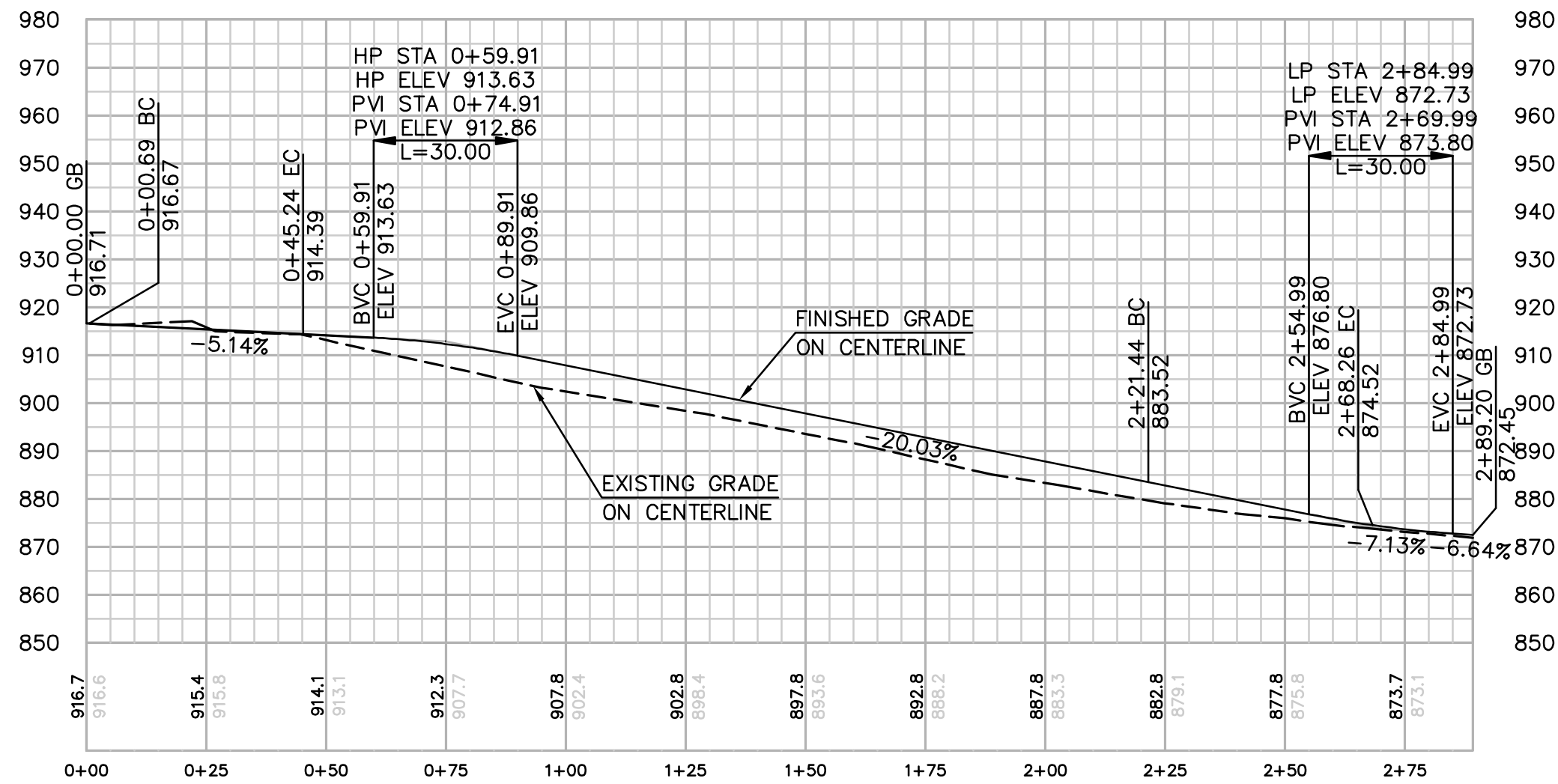
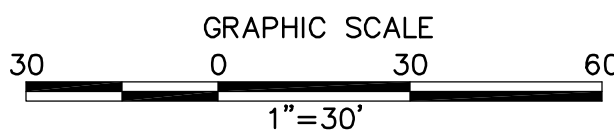


EARTH QUANTITIES:
CUT: 349 CY
FILL: 1,649 CY
NET: 1,300 CY

DISTURBED AREA:
PAD: 5,556 SF
ROAD: 7,848 SF
TOTAL: 13,404 SF

QUANTITIES:
RIP RAP: 25 SF
DOWN DRAIN: 62 LF
LENGTH OF ACCESS ROAD: 289 LF

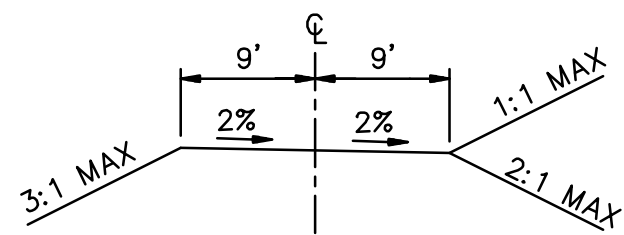
SITE P-11-1 PLAN
SCALE: 1" = 30'



PROFILE: ACCESS ROAD TO SITE P-11-1
SCALE: 1" = 30' HORIZ. & VERT.

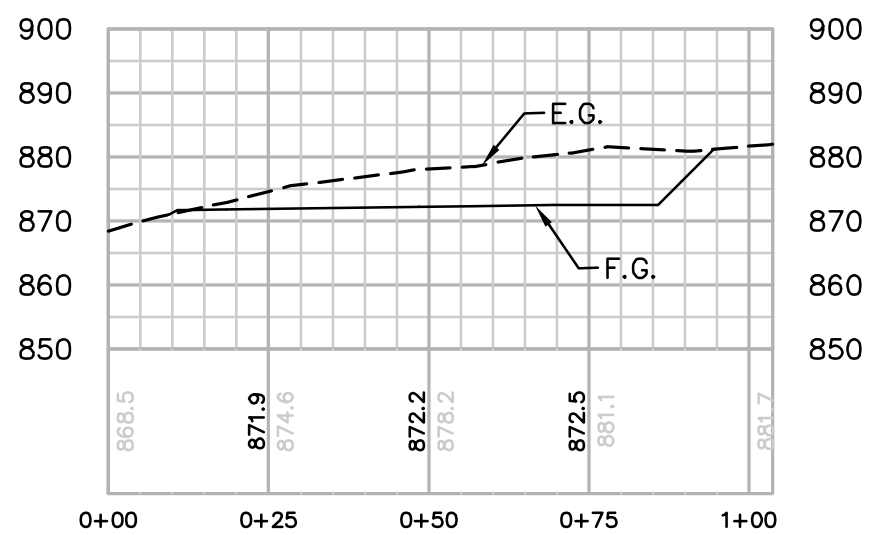
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-11-1	230 KV DC Strain Steel Pole	0.00	125.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1915193.98	6327613.12	872.00 (873.71)	P-11-1
2	1915151.05	6327287.09	916.71	CL/FG
3	1915143.80	6327286.95	916.62	EG
4	1915209.53	6327568.58	872.45	CL/FG
5	1915160.04	6327287.27	916.90	FG
6	1915141.65	6327382.14	(910.44)	FG
7	1915155.65	6327382.26	(910.99)	FG
8	1915156.07	6327362.67	912.32	FG
9	1915156.70	6327331.80	914.39	CL/EC/FG
10	1915222.93	6327644.14	871.54	FG
11	1915225.51	6327569.18	872.59	FG
12	1915200.53	6327568.27	872.58	FG
13	1915178.95	6327642.62	871.77	FG
14	1915180.75	6327594.89	872.44	FG
15	1915184.54	6327567.77	872.84	FG
16	1915201.25	6327547.34	874.34	EC
18	1915195.98	6327503.81	883.34	BC
19	1915204.64	6327501.36	883.52	CL/BC/FG
20	1915210.25	6327548.06	874.52	CL/EC/FG
21	1915213.30	6327498.91	883.70	FG
22	1915165.36	6327329.36	914.57	FG
23	1915217.39	6327517.57	880.08	FG

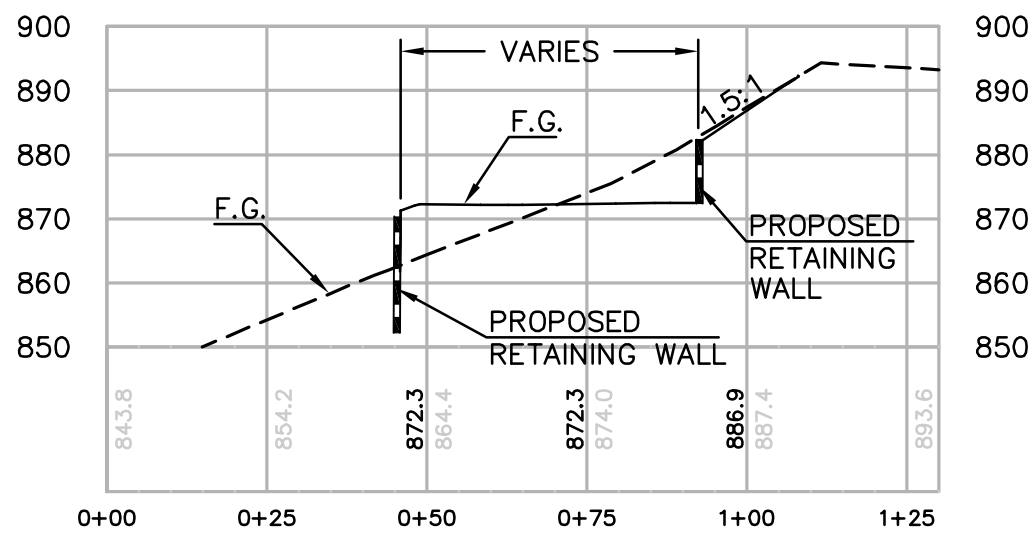


TYPICAL ACCESS ROAD CROSS SECTION
STA 0+75.00 TO 2+89.00
N.T.S.

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L3		0.69	S88°53'01"E
C2	151.00	44.55	16°54'14"
L2		176.21	N74°12'44"E
C1	151.00	46.82	17°45'50"
L1		20.94	S88°01'26"E



SECTION D-D
SCALE: 1" = 30' HORIZ. & VERT.



SECTION C-C
SCALE: 1" = 30' HORIZ. & VERT.

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-04A (LINK 5)
SITE P-11-1

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

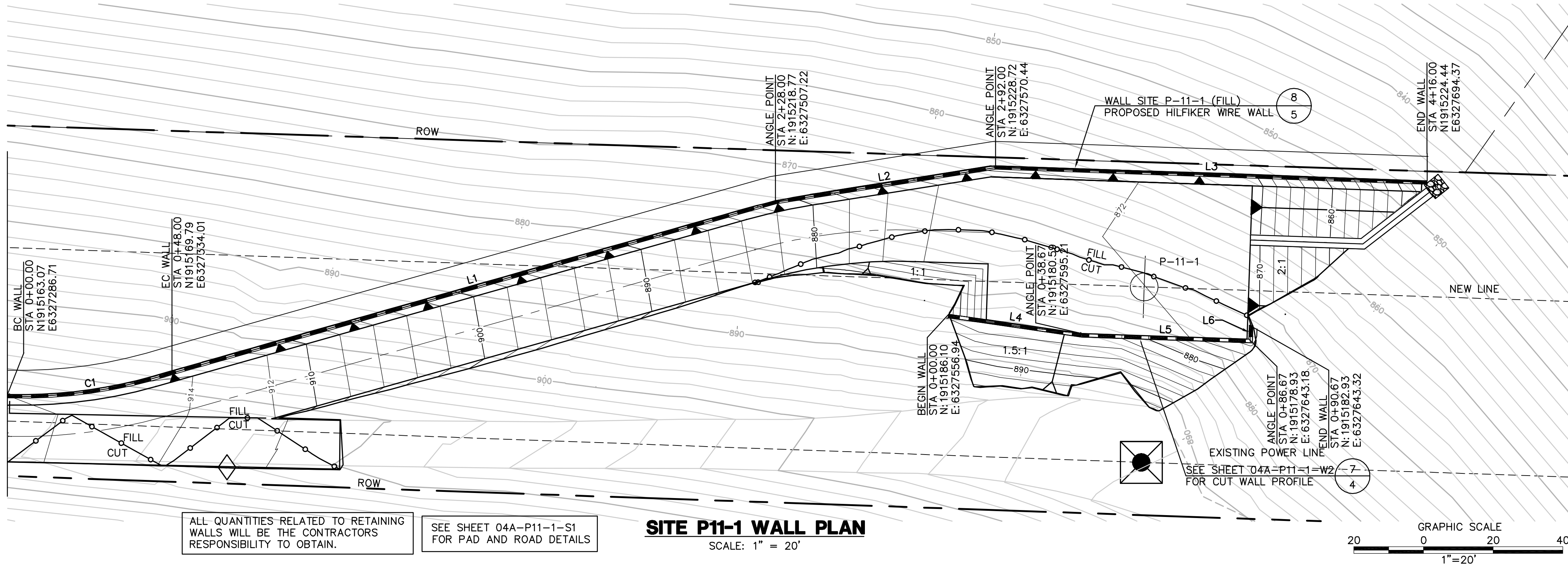
04A-P11-1-S1



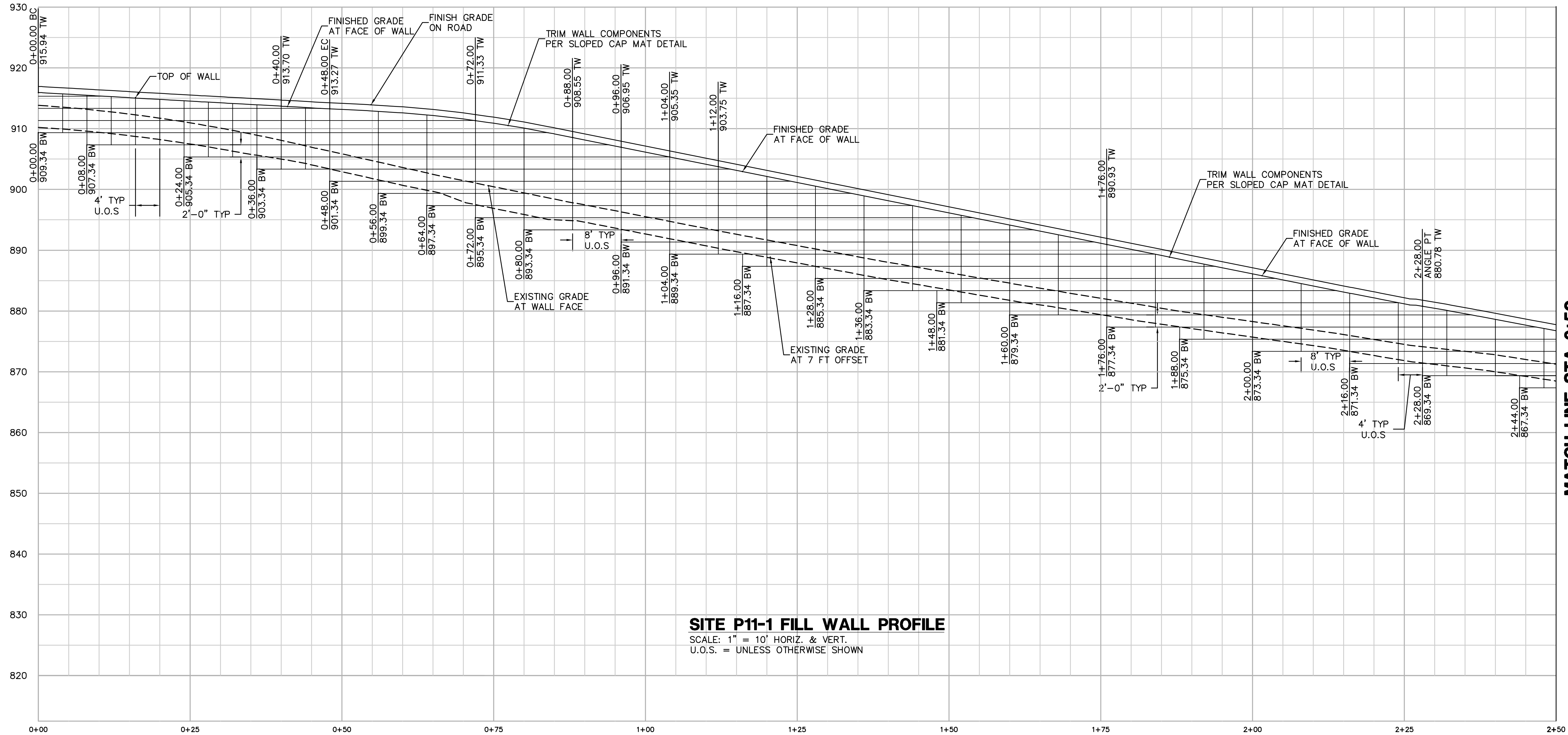
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FOR CONTINUATION OF WALL
SEE SHEET 04A-P10-W1



CENTERLINE DATA				
NUMBER	RADIUS	LENGTH	BEARING/DELTA	ANGLE
C1	143.06	48.00	19°13'29"	
L1		180.00	N74°12'44"E	
L2		64.00	N81°03'22"E	
L3		124.00	S88°01'26"E	
L4		38.67	S81°48'46"E	
L5		48.00	S88°01'26"E	
L6		4.00	N1°58'34"E	



MATCH LINE STA 2+50
SEE SHEET 04A-P11-1-W2

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-04A (LINK 5)

SITE P11-1 WALL PLAN

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

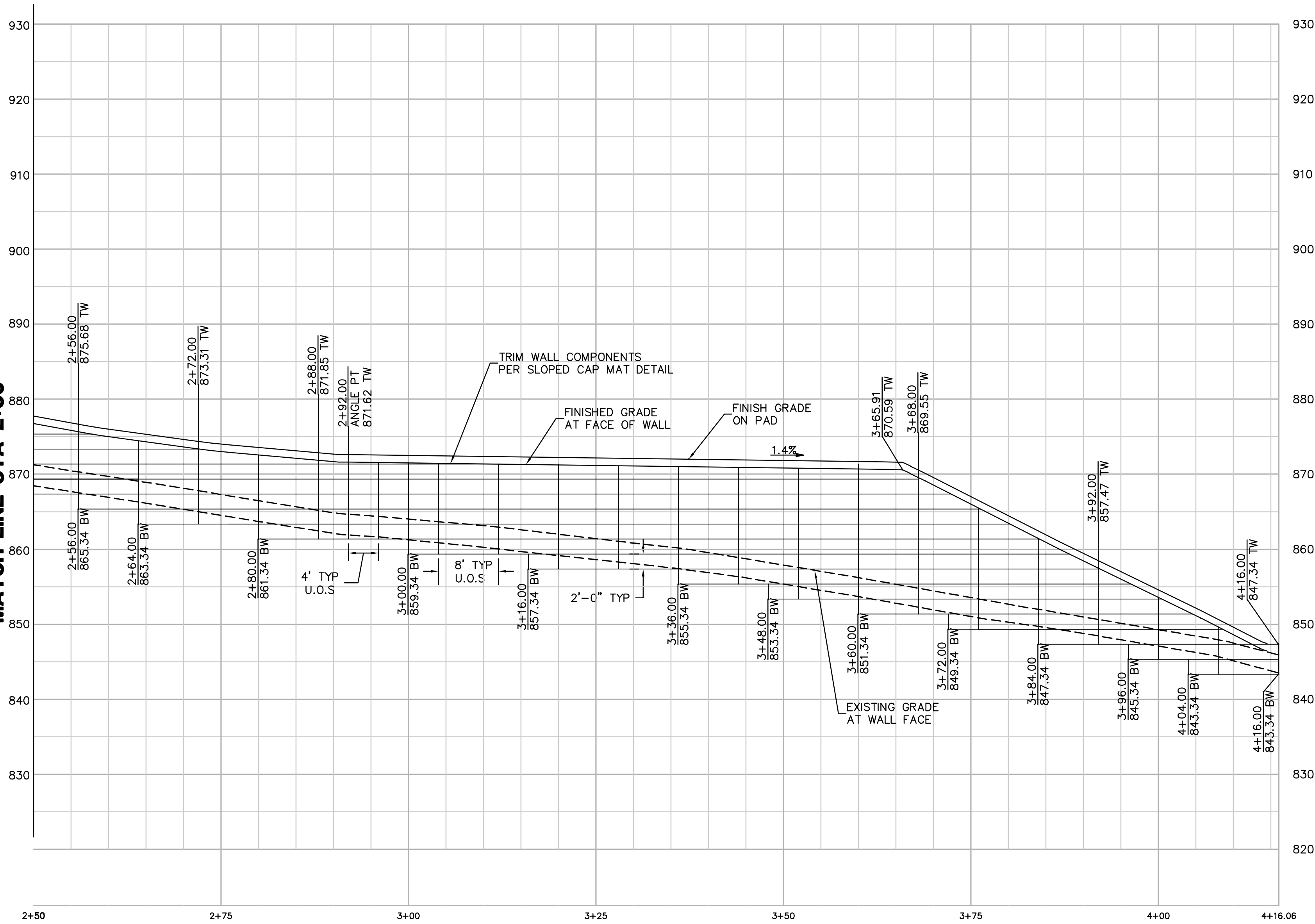
04A-P11-1-W1



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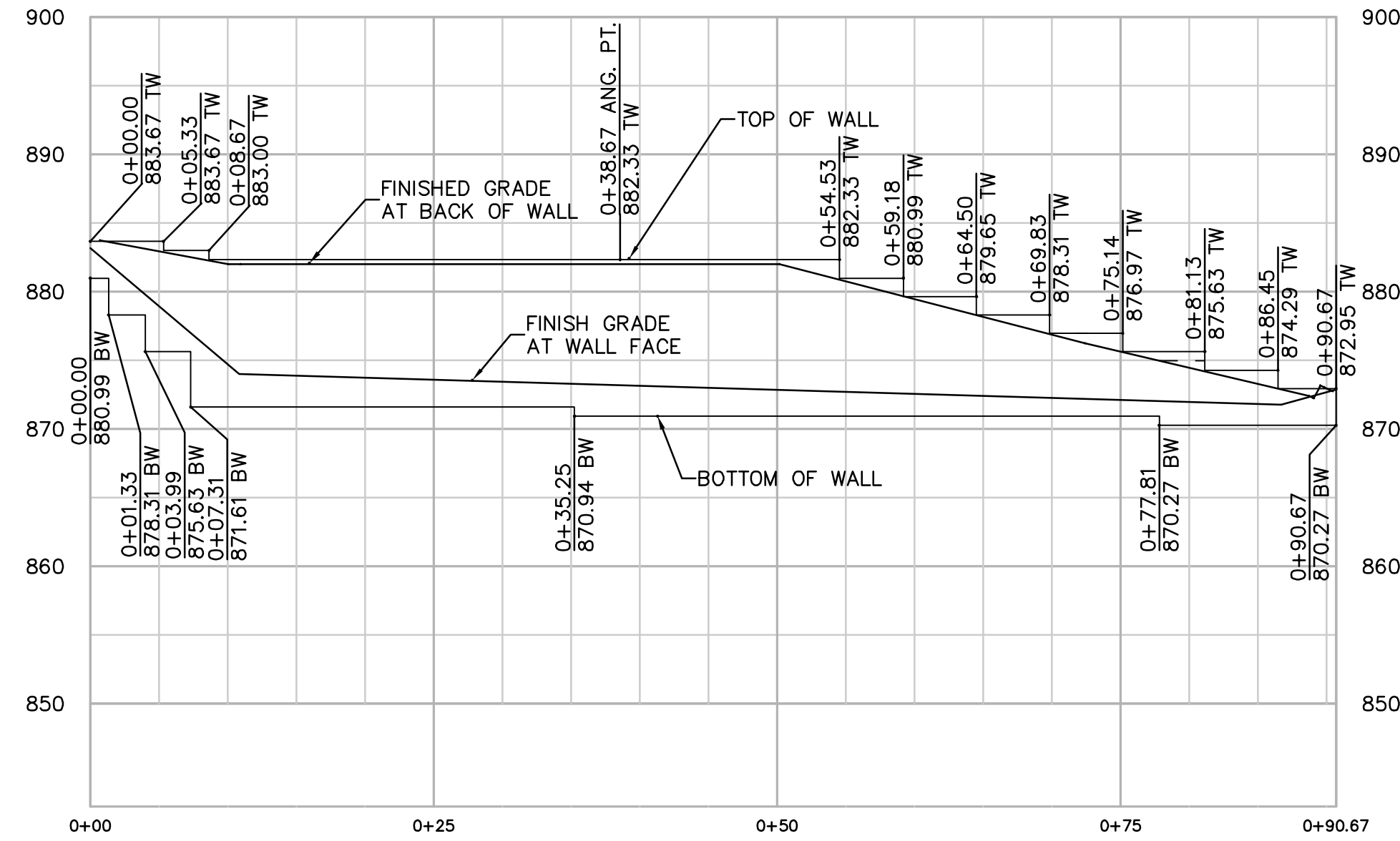
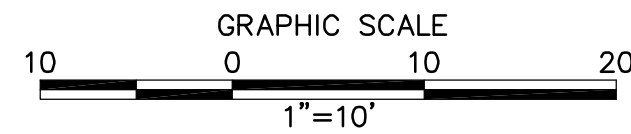


SEE SHEET 04A-P11-1-W1
MATCH LINE STA 2+50



ALL QUANTITIES RELATED TO RETAINING WALLS WILL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN.

SITE P11-1 FILL WALL PROFILE
SCALE: 1" = 10' HORIZ. & VERT.
U.O.S. = UNLESS OTHERWISE SHOWN



SITE P11-1 CUT WALL PROFILE
SCALE: 1" = 10' HORIZ. & VERT.
U.O.S. = UNLESS OTHERWISE SHOWN
NOTE: SEE SHEET 04A-P11-W1 FOR PLAN VIEW

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-04A (LINK 5)
SITE P11-1 WALL PLAN

DRAWN BY: 00	DATE:	SCALE:	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO:	PLLOT SCALE: 1 = 1			

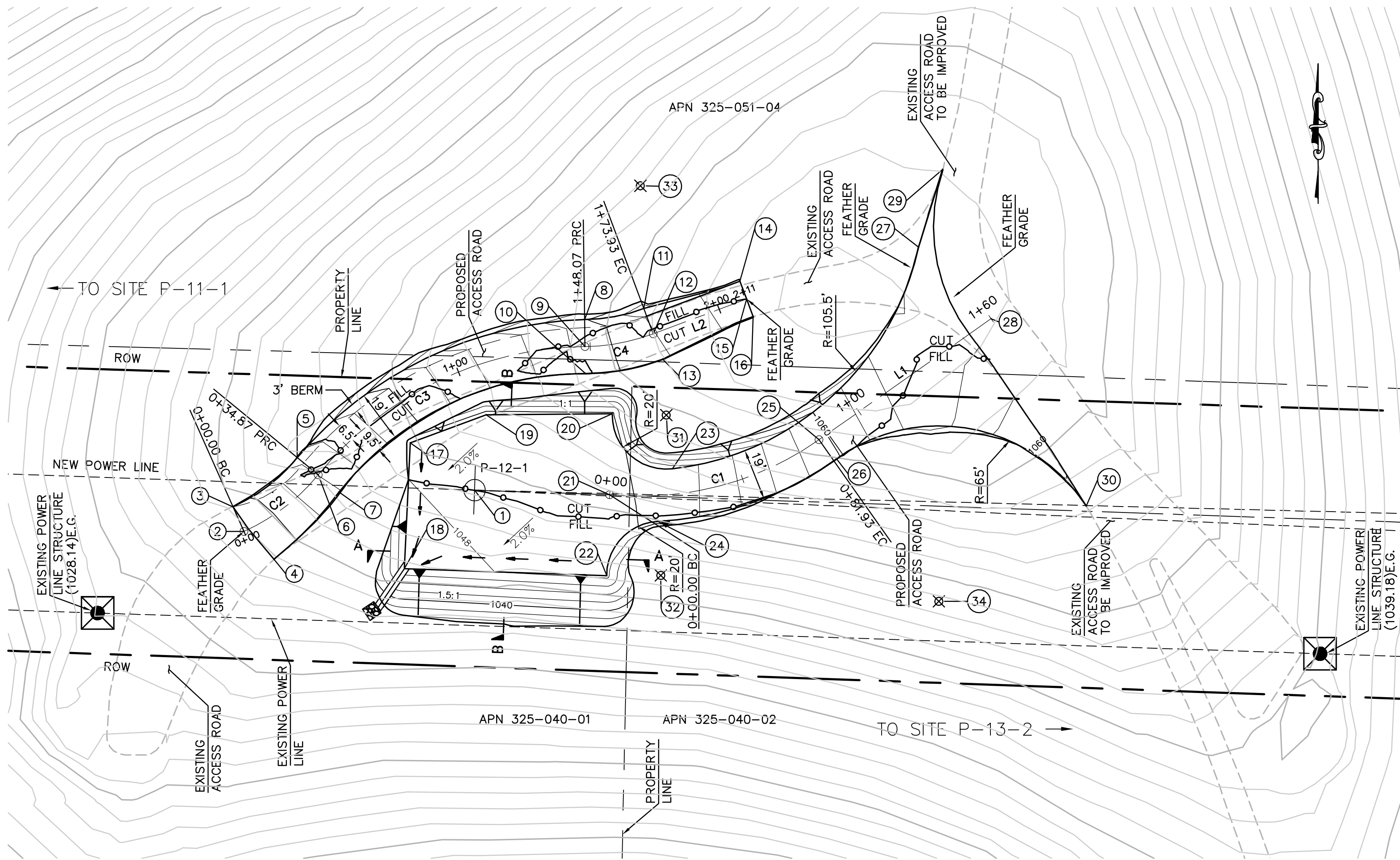
04A-P11-1-W2



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PN16919 SD&E SPL\CADD\04A\dwg\plan\04A-P12-1-1.sldwg Jun-03-2010 08:57

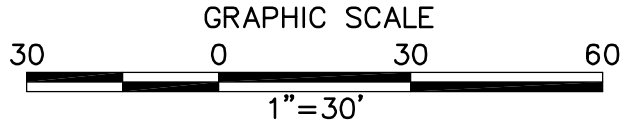


EARTH QUANTITIES:
CUT: 546 CY
FILL: 482 CY
NET: 64 CY

DISTURBED AREA:
PAD: 6,450 SF
ROAD: 9,756 SF
TOTAL: 16,206 SF

QUANTITIES:
RIP RAP: 25 SF
DOWN DRAIN: 15 LF
LENGTH OF ACCESS ROAD: 371 LF

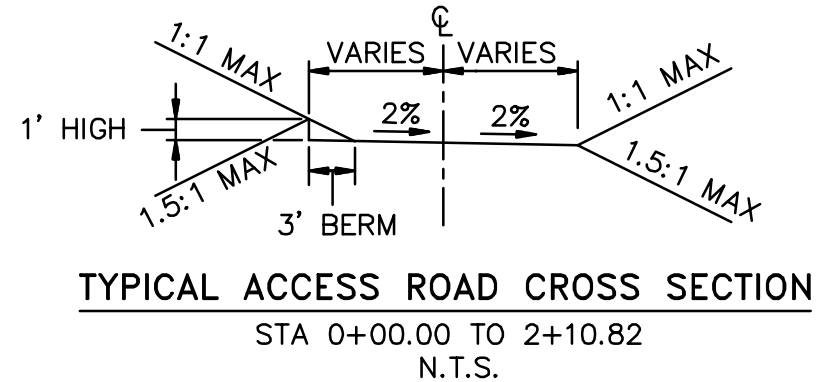
SITE P-12-1 PLAN
SCALE: 1" = 30'



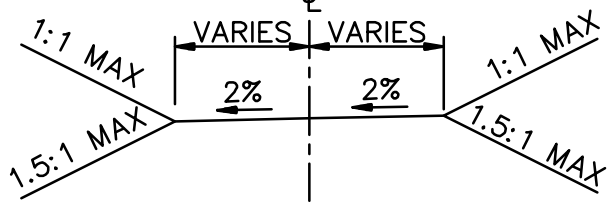
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-12-1	230 KV DC Tangent Steel Pole	0.00	170.00

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	115.00	81.93	40°49'13"
L1		77.89	N54°52'51"E

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C2	75.00	34.87	26°38'29"
C3	130.00	113.19	49°53'17"
C4	75.00	25.86	19°45'24"
L2		36.90	N69°30'33"E

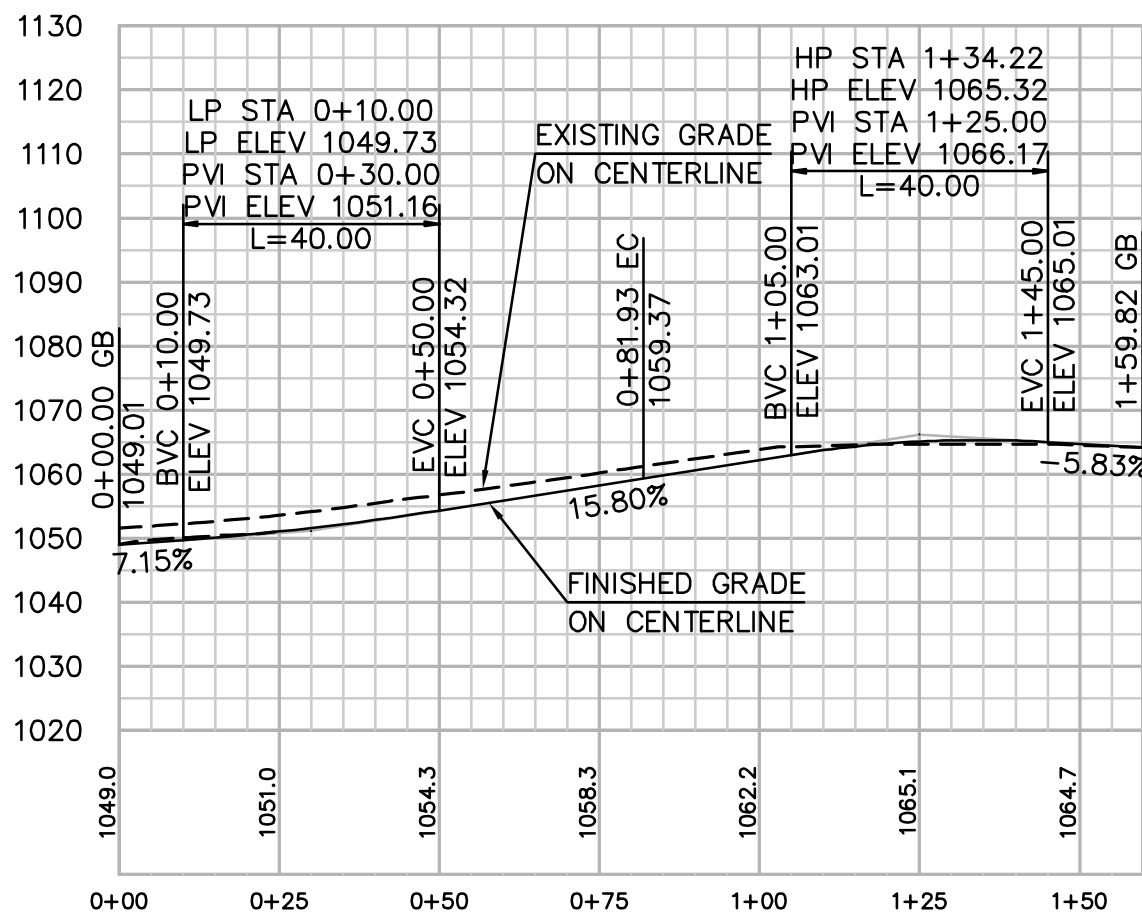


TYPICAL ACCESS ROAD CROSS SECTION
STA 0+00.00 TO 2+10.82
N.T.S.

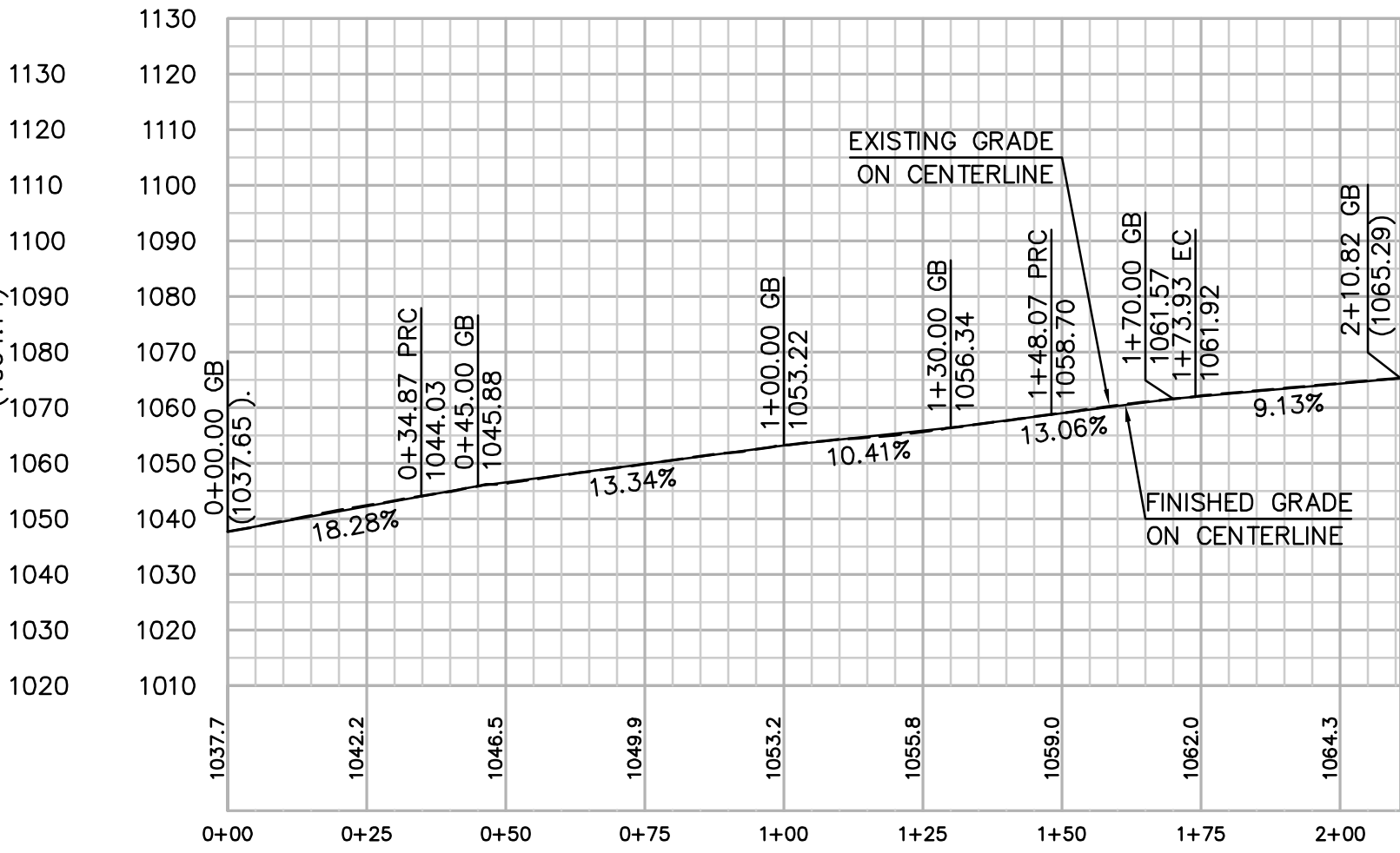


TYPICAL ACCESS ROAD CROSS SECTION
STA 0+00.00 TO 1+59.82 AND
N.T.S.

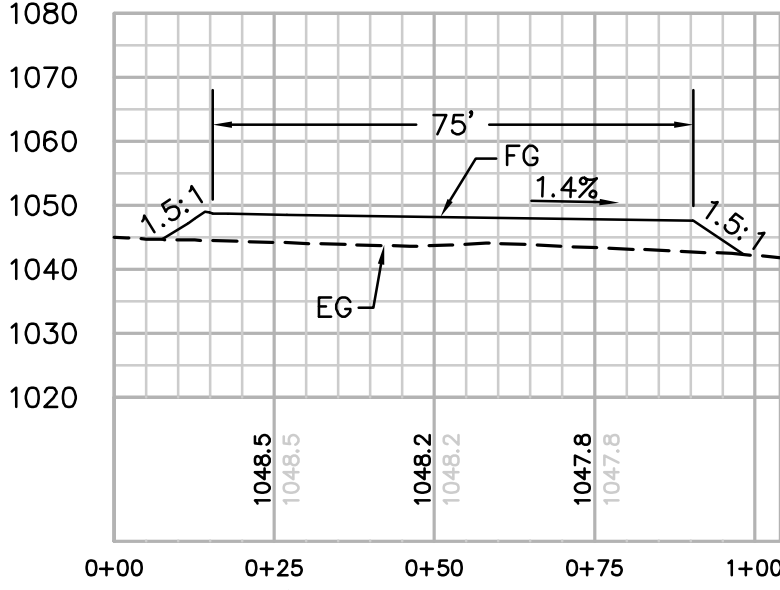
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1915126.38	6329572.33	1048.68 (1048.32)	P-12-1
2	1915111.10	6329486.90	(1037.65)	CL/BC
3	1915120.24	6329482.84	(1038.37)	EG
4	1915100.84	6329498.01	(1037.75)	EG
5	1915138.39	6329506.66	1045.17	PRC/TB
6	1915132.05	6329514.39	1044.03	CL/PRC
7	1915125.70	6329522.12	1043.83	PRC
8	1915189.56	6329613.09	1059.84	PRC/TB
9	1915179.56	6329613.22	1058.70	CL/PRC
10	1915169.56	6329613.34	1058.50	PRC
11	1915193.67	6329635.01	1063.05	EC/TB
12	1915184.30	6329638.51	1061.92	CL/EC
13	1915174.93	6329642.01	1061.72	EC
14	1915203.77	6329670.62	(1065.43)	FG
15	1915197.21	6329673.07	(1065.29)	CL
16	1915190.66	6329675.52	(1065.15)	FG
17	1915143.86	6329548.50	1048.19	FG
18	1915097.26	6329546.31	1047.53	FG
19	1915154.29	6329576.64	1048.75	FG
20	1915154.64	6329623.33	1049.44	FG
21	1915124.70	6329622.30	1049.01	CL/BC
22	1915094.67	6329621.27	1048.59	BC
23	1915134.30	6329645.58	1050.79	PCC
24	1915114.80	6329640.24	1050.51	PRC
25	1915145.06	6329699.89	1059.37	CL/EC
26	1915137.99	6329706.33	1059.77	PRC
27	1915216.38	6329736.75	1065.05	EC
28	1915189.87	6329763.60	(1064.14)	CL
29	1915245.14	6329745.66	1063.94	FG
30	1915120.48	6329798.83	1056.29	FG
31	1915154.17	6329643.33		RP
32	1915094.79	6329641.30		RP
33	1915239.13	6329633.73		RP
34	1915085.19	6329744.24		RP



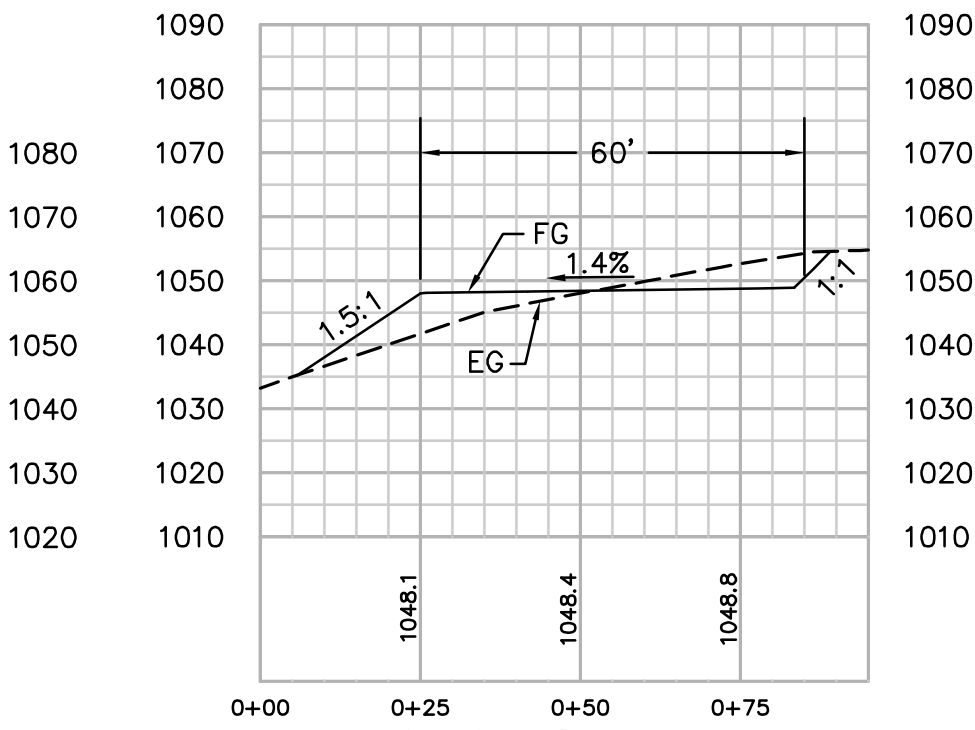
PROFILE: ACCESS ROAD TO SITE P-12-1
HORIZ. & VERT. SCALE: 1" = 30'



PROFILE: ACCESS ROAD TO EXISTING TOWER
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-04A (LINK 5)

SITE P-12-1

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

04A-P12-1-S1

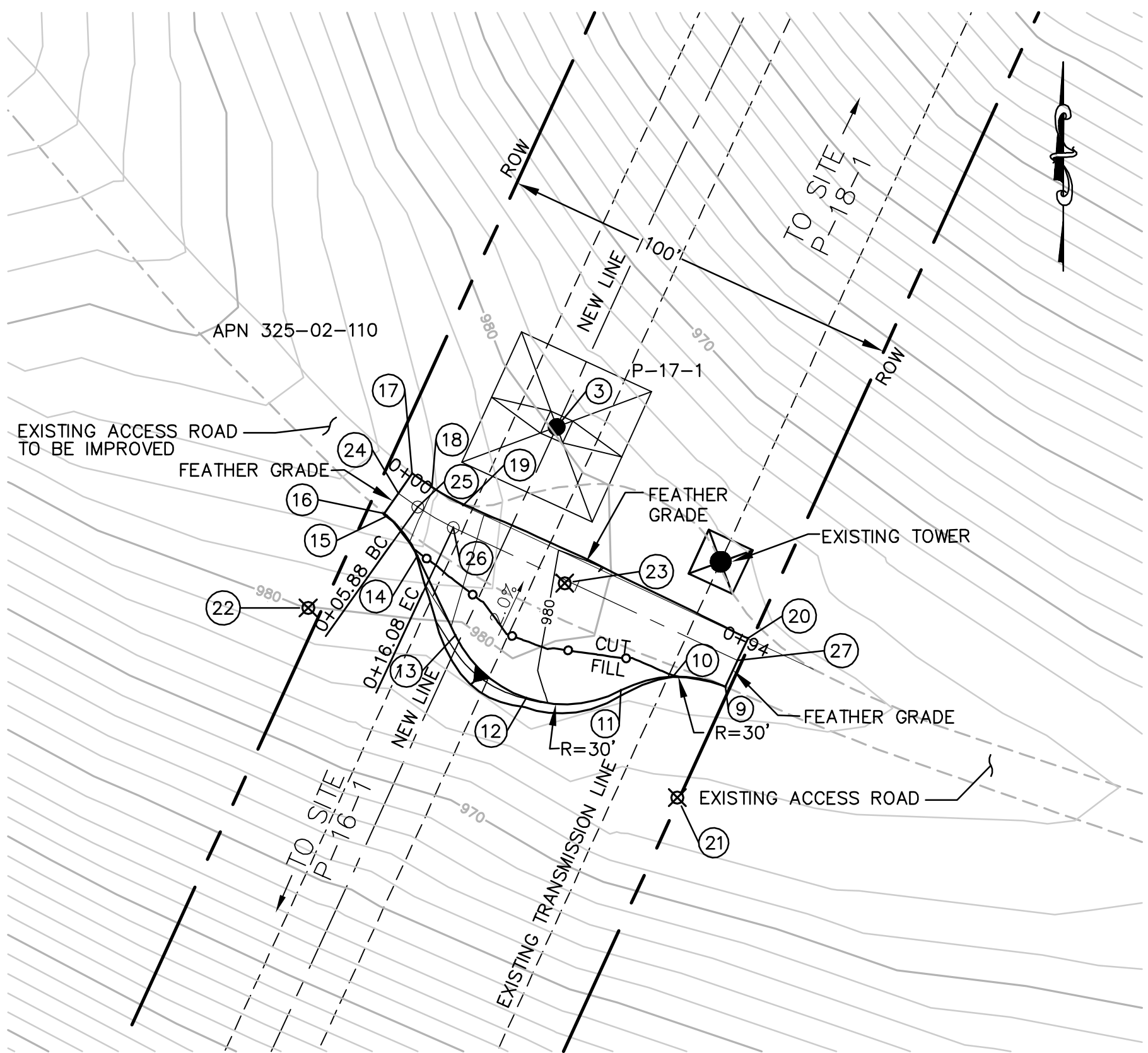


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STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-17-1	230 KV CXPT Tangent Lattice Tower	0.00	109.00



TOWER P-17-1 PLAN

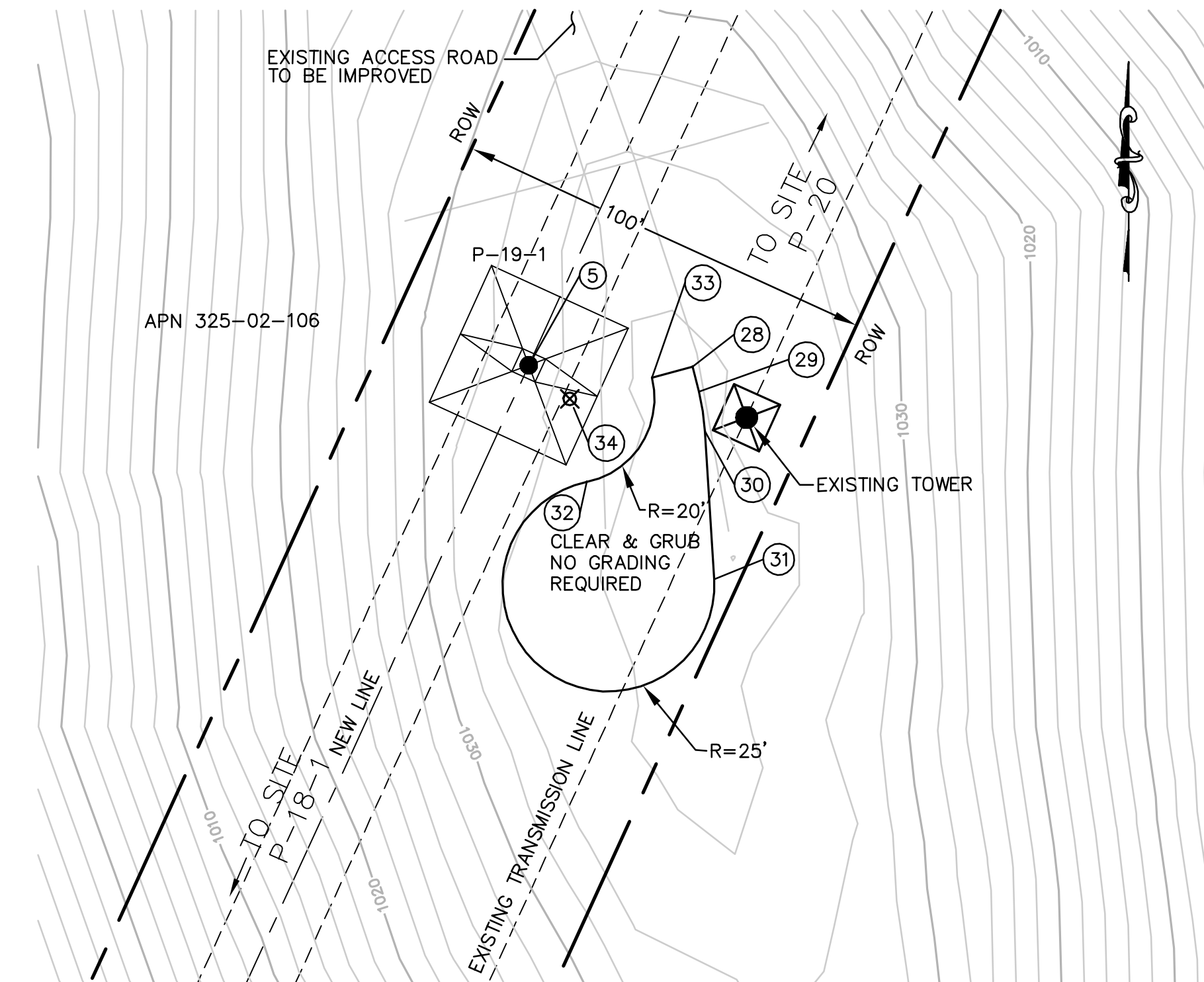
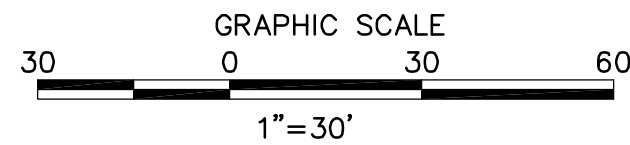
SCALE: 1" = 30'

EARTH QUANTITIES:

CUT: 31 CY
FILL: 27 CY
NET: 4 CY

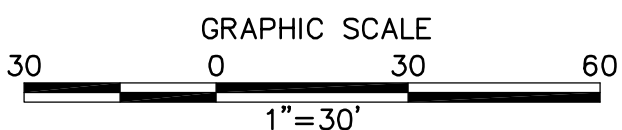
DISTURBED AREA:

PAD: 1,455 SF
ROAD: 1,176 SF
TOTAL: 2,631 SF

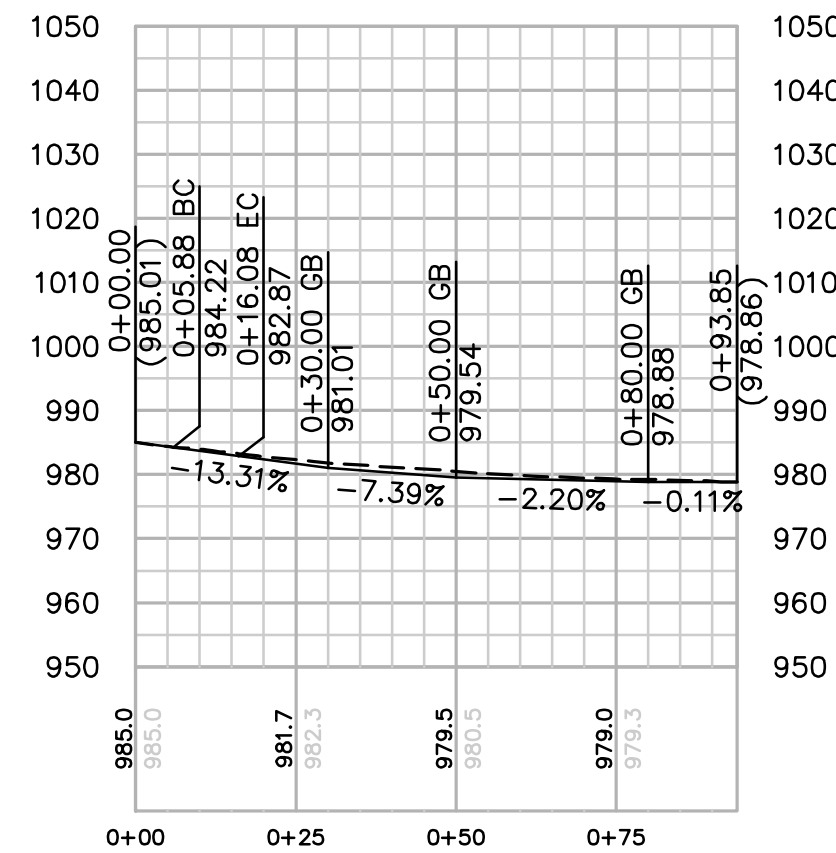


TOWER P-19-1 PLAN

SCALE: 1" = 30'



NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
3	1916637.61	6332970.77	(979.70)	P-17-1
9	1916573.33	6333012.60	(978.95)	EG
10	1916575.79	6332999.54	979.08	FG
11	1916572.37	6332986.71	979.44	FG
12	1916570.47	6332963.29	980.14	FG
13	1916586.03	6332945.68	981.75	FG
14	1916605.73	6332936.29	983.64	FG
15	1916615.60	6332928.74	985.00	FG
16	1916616.23	6332928.01	(984.97)	EG
17	1916626.09	6332934.99	(984.94)	EG
18	1916622.65	6332939.86	984.09	FG
19	1916618.16	6332947.59	982.76	FG
20	1916585.31	6333018.19	(978.66)	EG
21	1916545.81	6333000.65		RP
22	1916592.83	6332909.21		RP
23	1916598.94	6332972.76		RP
24	1916621.19	6332931.53	(985.01)	CL/EG
25	1916617.80	6332936.32	984.22	CL/BC/FG
26	1916612.68	6332945.13	982.87	CL/EC/FG
27	1916579.78	6333015.60	(978.86)	CL/EG



PROFILE: ACCESS ROAD TO TOWER P-17-1

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

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-19-1	230 KV CXPT Tangent Lattice Tower	0.00	124.00

DISTURBED AREA:

PAD: 2,446 SF
TOTAL: 2,446 SF

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
5	1919485.29	6334272.34	(1033.16)	P-19-1
28	1919484.98	6334310.99	(1036.36)	EG
29	1919479.10	6334312.50	(1036.31)	EG
30	1919469.73	6334313.97	(1036.37)	EG
31	1919434.80	6334316.10	(1037.67)	EG
32	1919457.76	6334286.08	(1035.12)	EG
33	1919482.39	6334301.38	(1036.42)	EG
34	1919477.34	6334282.02		RP

REVISIONS

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

WORK DONE	DATE	BY:	APP'D:	NO.

WORK DONE	DATE	BY:	APP'D:	NO.

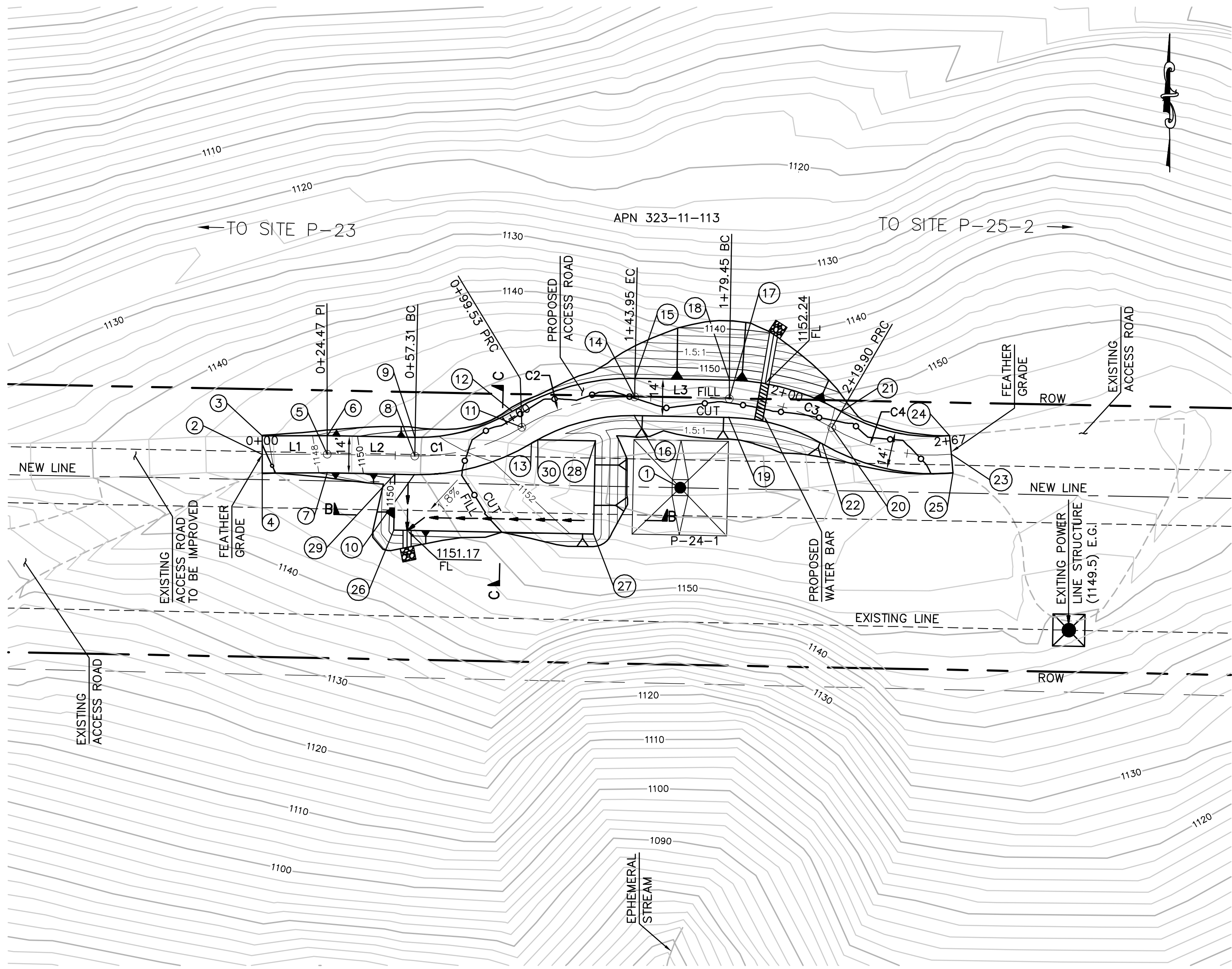
SAN DIEGO GAS & ELECTRIC COMPANY SAN DIEGO, CALIFORNIA			
SPL-04A (LINK 5)			
SITES 04A-P17-1-P20			
DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O. REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO:	PLOT SCALE: 1" = 1'	04A-P17-1-P20	



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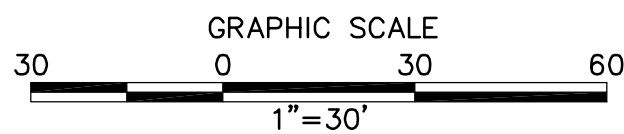


EARTH QUANTITIES:
CUT: 358 CY
FILL: 284 CY
NET: 74 CY

DISTURBED AREA:
PAD: 3,040 SF
ROAD: 6,331 SF
TOTAL: 9,371 SF

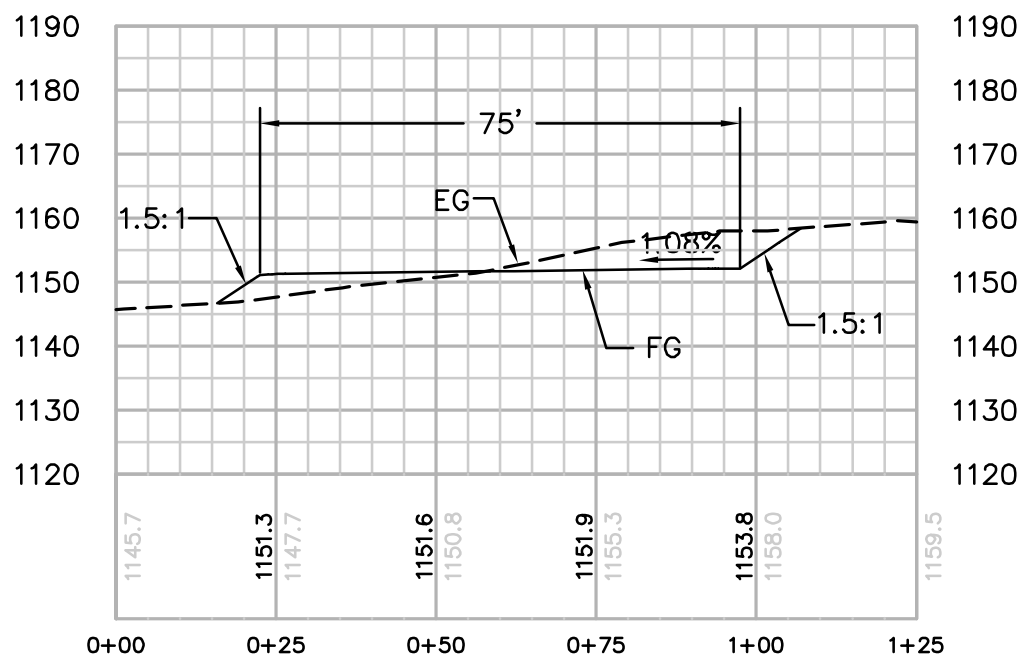
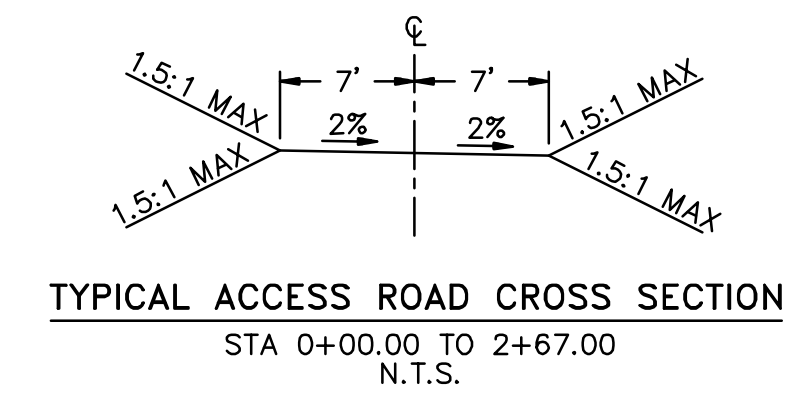
QUANTITIES:
RIP RAP: 50 SF
DOWN DRAIN: 25 LF
LENGTH OF ACCESS ROAD: 267 LF

TOWER P-24-1 PLAN
SCALE: 1" = 30'

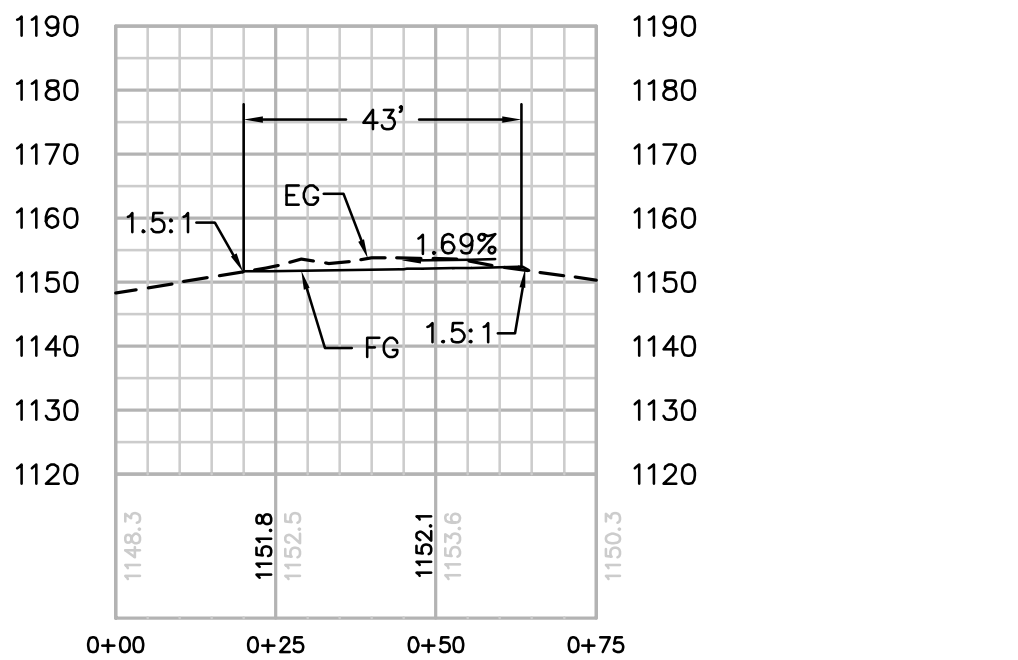


STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-24-1	230 KV CXPT Tangent Lattice Tower	0.00	124.00

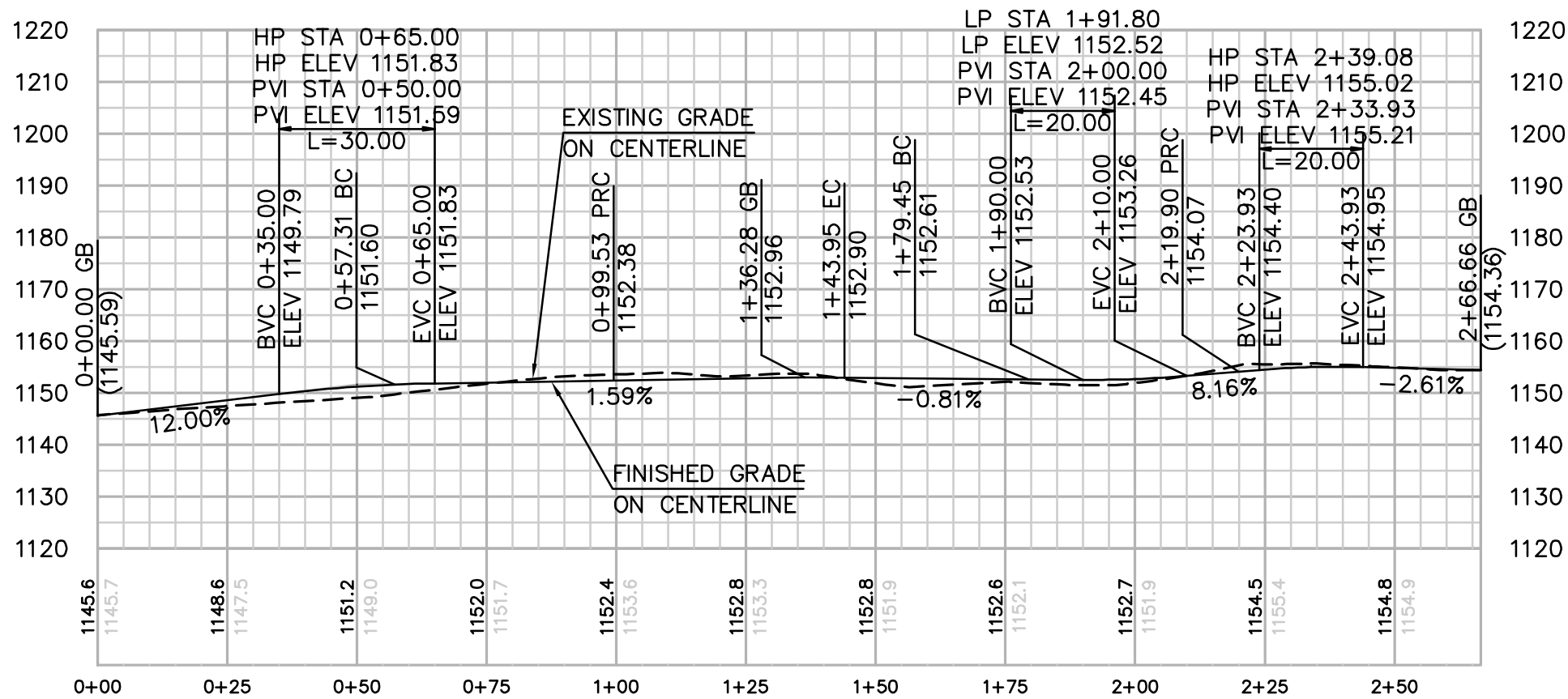
CENTERLINE DATA				
NUMBER	RADIUS	LENGTH	BEARING/DELTA	ANGLE
C1	75.00	42.22	32°15'20"	
C2	79.00	44.42	32°12'47"	
C3	79.00	40.45	29°20'19"	
C4	75.00	46.76	35°43'24"	
L1		24.47	N89°53'02"E	
L2		32.84	S88°53'23"E	
L3		35.50	S88°55'56"E	



SECTION B-B
HORIZ. & VERT. SCALE: 1" = 30'



SECTION C-C
HORIZ. & VERT. SCALE: 1" = 30'



PROFILE: ACCESS ROAD TO TOWER P-24-1
HORIZ. & VERT. SCALE: 1" = 30'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1923097.90	6336870.47	(1160.86)	P-24-1
2	1923110.39	6336713.47	(1145.59)	CL/EG
3	1923117.39	6336713.46	(1145.64)	EG
4	1923103.39	6336713.49	(1145.63)	EG
5	1923110.44	6336737.95	1148.52	CL/PI
6	1923117.44	6336738.01	1148.67	PI
7	1923103.44	6336737.88	1148.37	PI
8	1923109.81	6336770.78	1151.60	CL/BC
9	1923116.80	6336770.91	1151.74	BC
10	1923102.81	6336770.64	1151.46	BC
11	1923120.60	6336811.02	1152.38	CL/PRC
12	1923126.59	6336807.40	1152.52	PRC
13	1923114.61	6336814.64	1152.24	PRC
14	1923131.97	6336853.35	1152.90	CL/EC
15	1923138.97	6336853.48	1153.04	EC
16	1923124.98	6336853.22	1152.76	EC
17	1923131.31	6336888.85	1152.61	CL/BC
18	1923138.31	6336888.98	1152.75	BC
19	1923124.31	6336888.72	1152.47	BC
20	1923120.46	6336927.36	1154.07	CL/PRC
21	1923126.50	6336930.90	1154.21	PRC
22	1923114.42	6336923.82	1153.93	PRC
23	1923110.47	6336972.27	(1154.36)	CL/EC/EG
24	1923117.44	6336971.62	(1154.50)	EC/EG
25	1923103.50	6336972.92	(1154.22)	EC/EG
26	1923081.95	6336762.93	1151.21	FG
27	1923080.50	6336837.91	1152.11	FG
28	1923115.49	6336838.59	1152.28	FG
29	1923102.95	6336763.33	1151.32	FG
30	1923115.91	6336816.96	1152.28	FG

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-04A (LINK 5)

SITE P-24-1

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

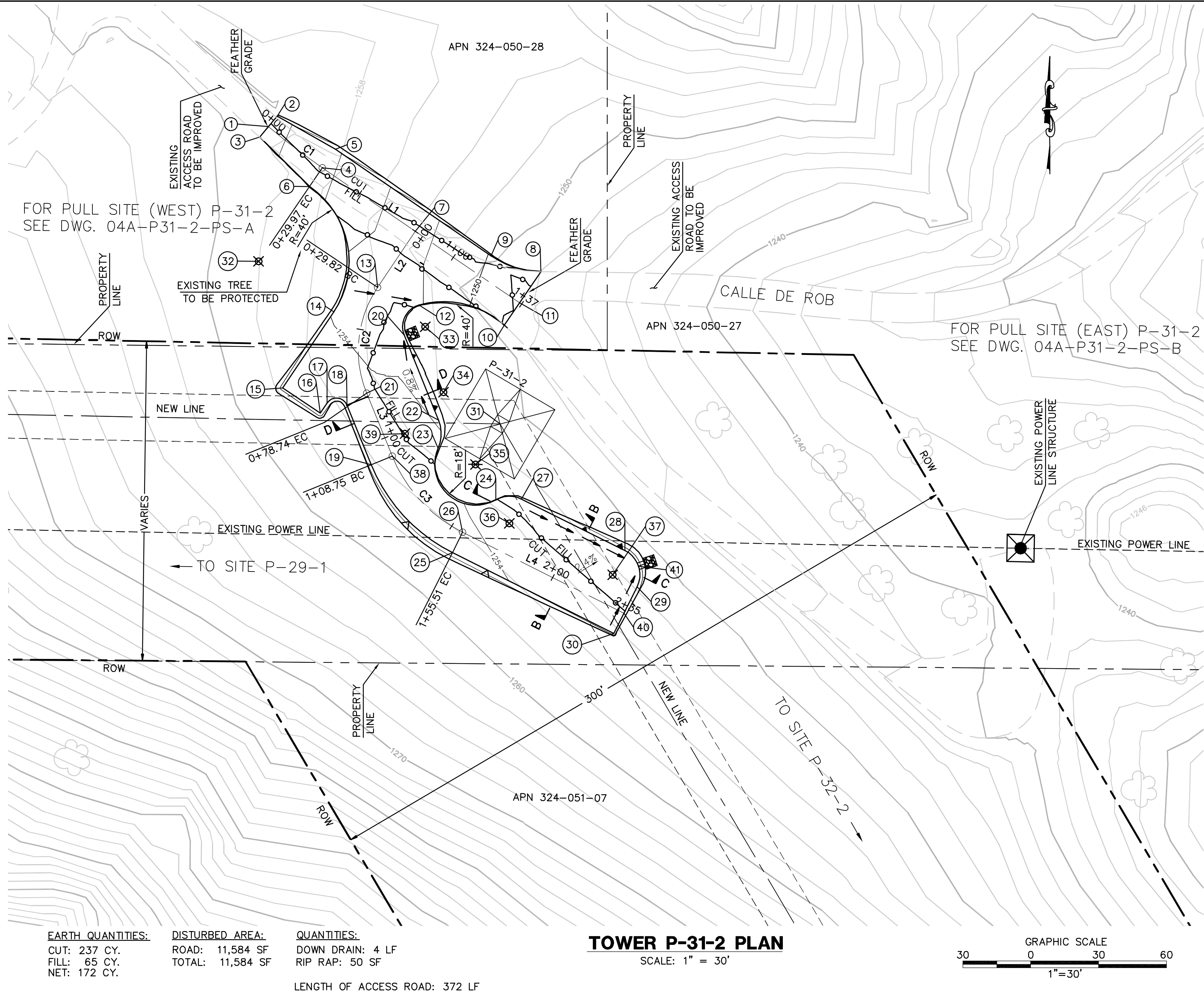
04A-P24-1-S1



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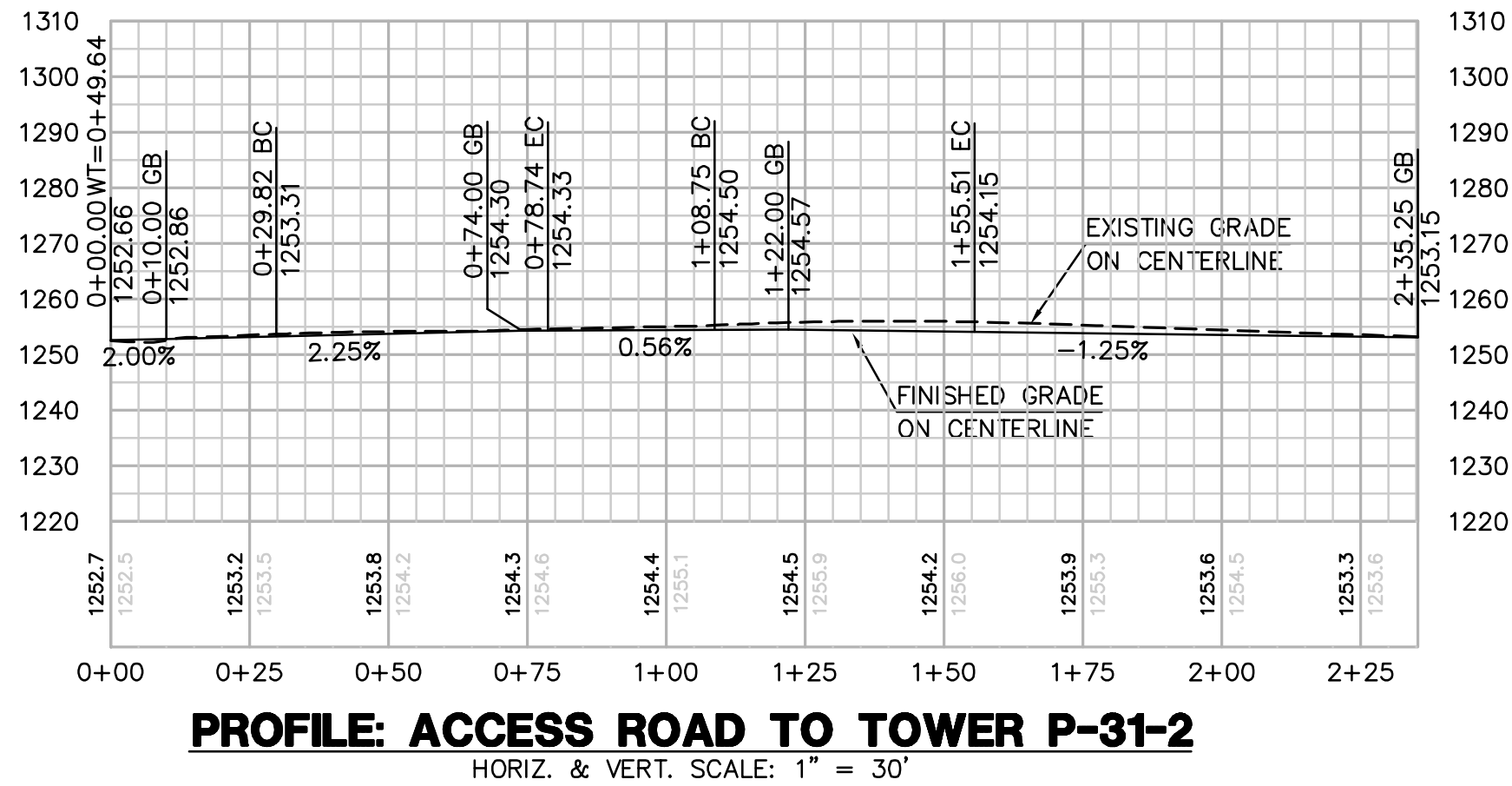
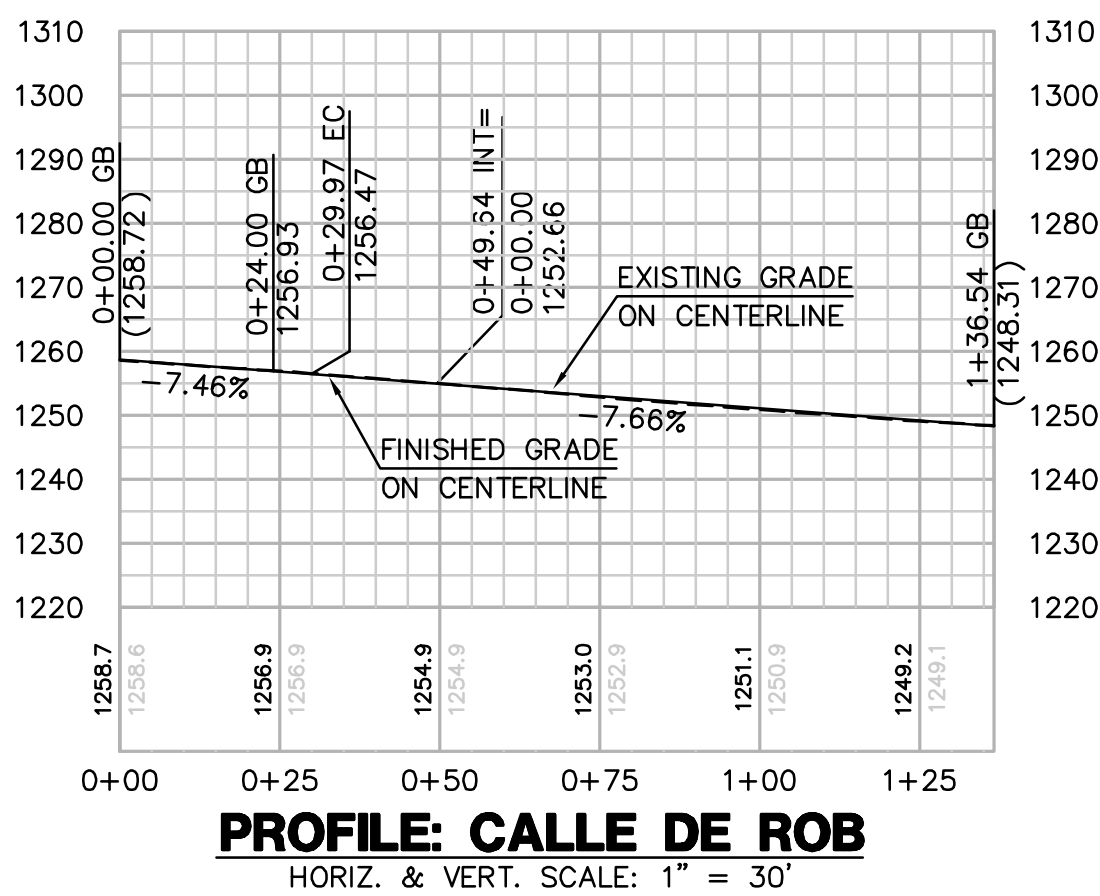
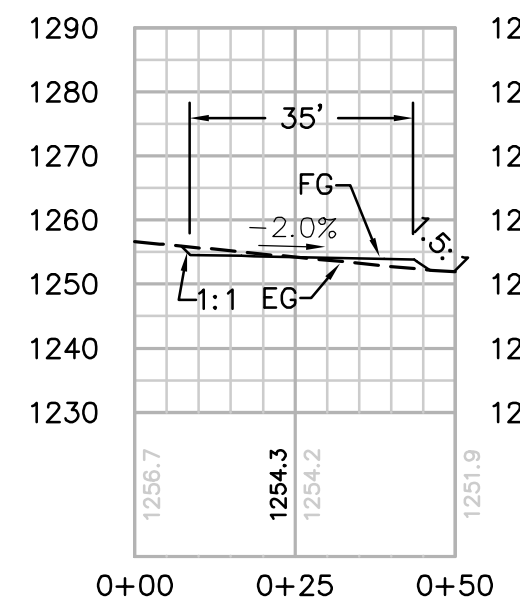
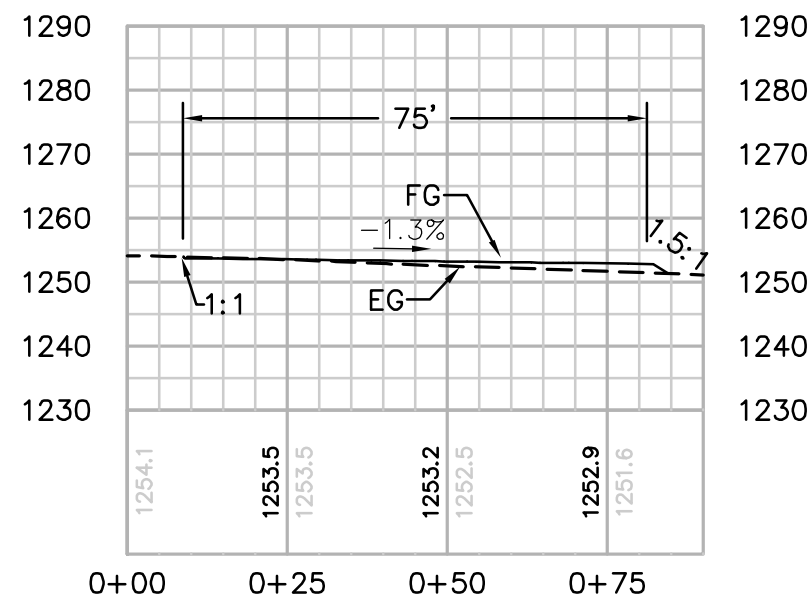
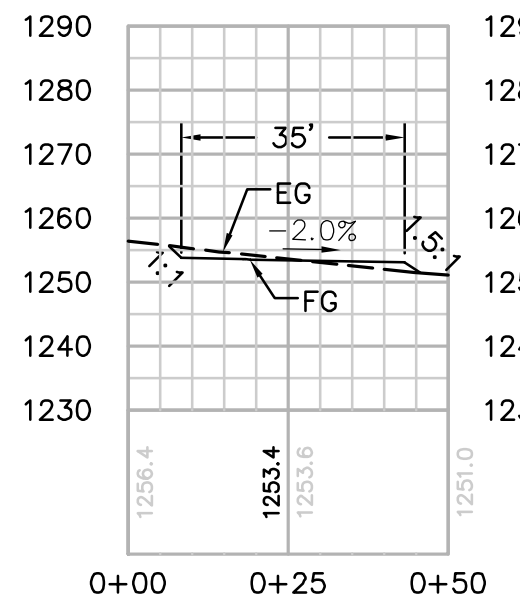


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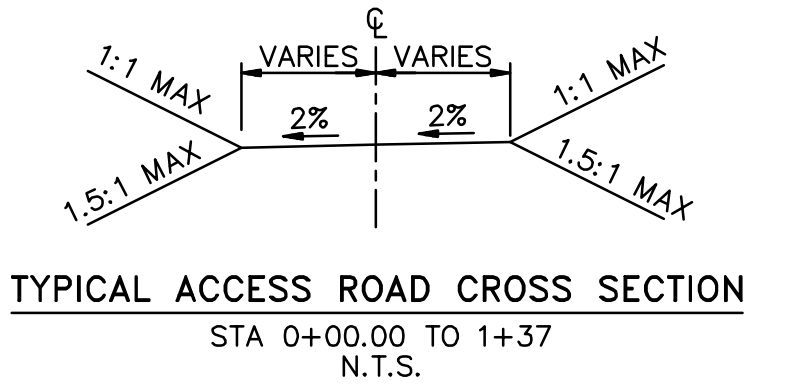


STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-31-2	230 KV CXSD Deadend Lattice Tower	58.38	163.50

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	290.00	29.97	5°55'16"
C2	50.00	48.91	56°03'02"
C3	65.00	46.76	41°13'13"
L1		106.57	S55°35'46"E
L2		29.82	S33°53'49"W
L3		30.01	S22°09'12"E
L4		79.74	S63°21'46"E



NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1923101.13	6343376.45	(1258.72)	CL/EG
2	1923105.71	6343380.33	(1258.60)	EG
3	1923096.56	6343372.56	(1258.84)	EG
4	1923082.95	6343400.25	1256.47	CL/EC
5	1923091.16	6343405.97	1256.27	FG
6	1923074.66	6343394.67	1256.66	FG
7	1923054.90	6343441.21	1252.67	CL/INT/FG
8	1923037.10	6343496.71	(1248.06)	EG
9	1923044.09	6343474.70	1249.88	FG
10	1923013.57	6343480.59	(1248.63)	EG
11	1923023.35	6343487.29	(1248.31)	CL/EG
12	1923022.40	6343442.95	1252.25	FG
13	1923030.15	6343424.58	1253.31	CL/BC
14	1923019.34	6343405.27	1253.95	FG
15	1922985.78	6343382.72	1254.95	FG
16	1922974.62	6343399.32	1254.75	FG
17	1922979.09	6343402.32	1254.65	FG
18	1922978.19	6343411.10	1254.54	FG
19	1922951.84	6343421.83	1254.70	FG
20	1923009.02	6343436.37	1253.33	FG
21	1922983.41	6343419.77	1254.33	CL/EC
22	1922971.60	6343451.52	1253.84	FG
23	1922959.19	6343451.35	1254.13	FG
24	1922936.37	6343476.79	1253.68	FG
25	1922913.07	6343457.67	1254.35	FG
26	1922922.01	6343462.16	1254.15	CL/EC
27	1922936.70	6343488.10	1253.34	FG
28	1922914.01	6343533.77	1252.80	FG
29	1922897.92	6343539.18	1252.89	FG
30	1922877.32	6343528.95	1253.35	FG
31	1922969.83	6343478.66	(1250.93)	P-31-2
32	1923041.65	6343372.07		RP
33	1923012.77	6343445.64		RP
34	1922983.88	6343453.73		RP
35	1922951.98	6343467.84		RP
36	1922925.95	6343482.76		RP
37	1922903.26	6343528.43		RP
38	1922955.61	6343431.09	1254.50	CL/BC
39	1922965.60	6343436.69		RP
40	1922886.28	6343533.40	1253.15	FG
41	1922907.08	6343539.81	1252.72	FL



REVISIONS

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

WORK DONE	DATE	BY:	APP'D:	NO.

WORK DONE	DATE	BY:	APP'D:	NO.

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-04A (LINK 5)

SITE P-31-2

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

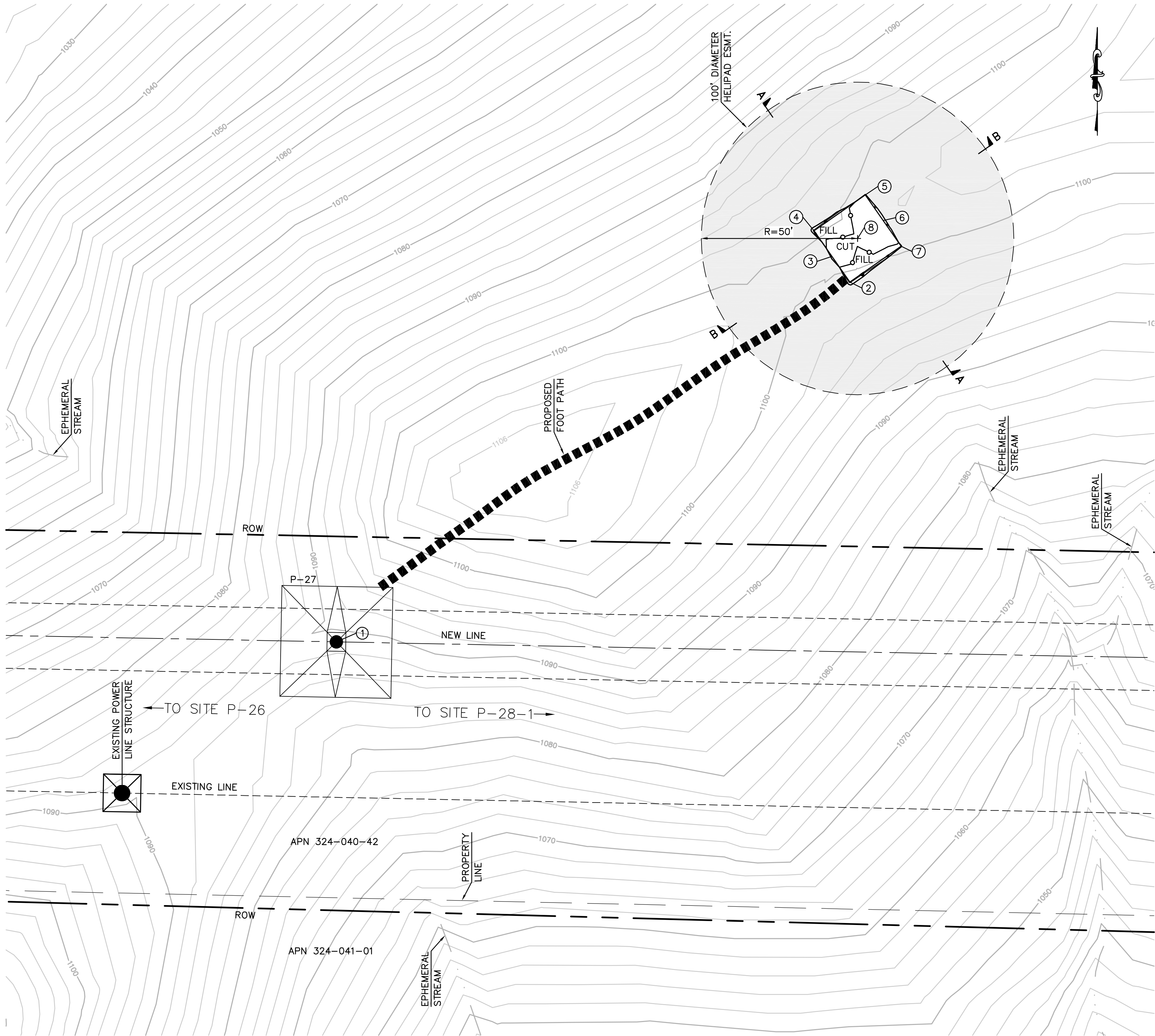
04A-P31-2-S1



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P:\16919 SD&E SPL\CADD\04A\dwg\plan\Helipads\04A-P27 TSAP.dwg,May-19-2010,17:00



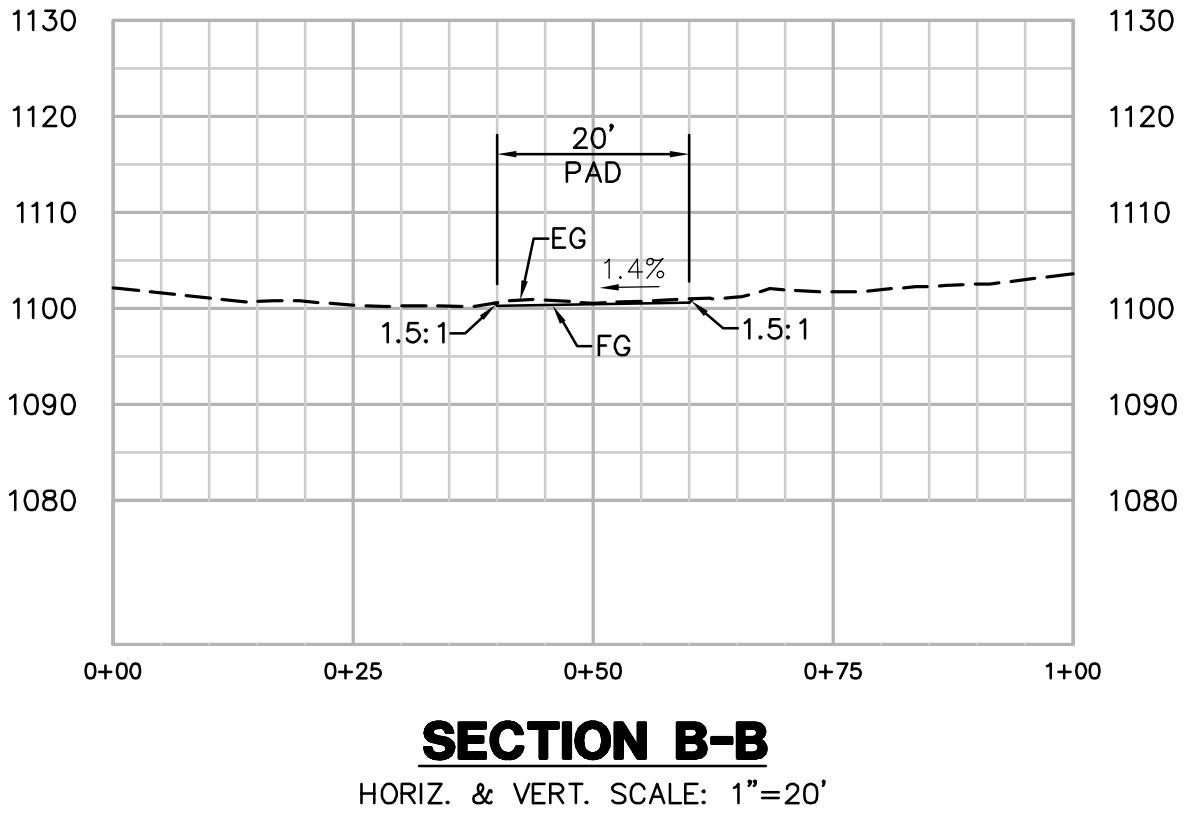
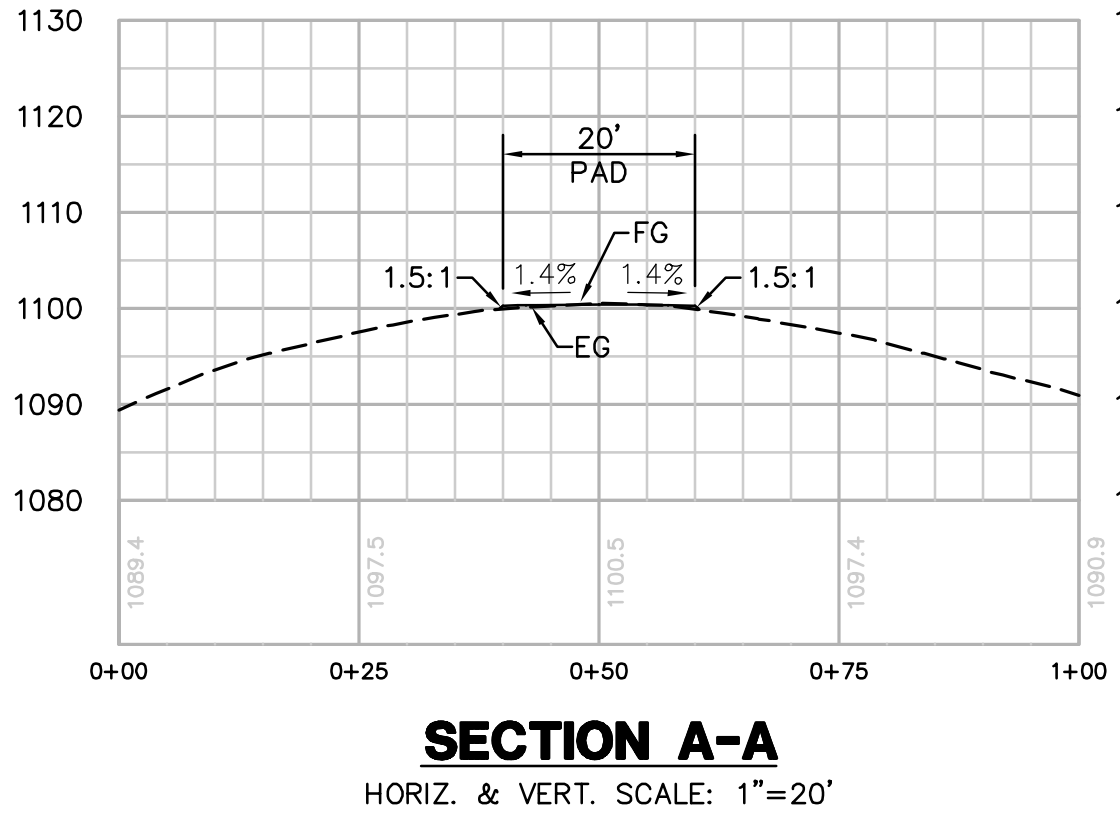
EARTH QUANTITIES:
CUT: 2 CY
FILL: 1 CY
NET: 1 CY

DISTURBED AREA:
PAD: 440 SF
TOTAL: 440 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.

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1923035.58	6340086.01	(1089.36)	P-27
2	1923150.72	6340250.30	1100.16	FG
3	1923158.91	6340244.57	1100.29	FG
4	1923167.11	6340238.83	1100.15	FG
5	1923178.57	6340255.23	1100.43	FG
6	1923170.37	6340260.96	1100.58	FG
7	1923162.18	6340266.69	1100.43	FG
8	1923164.64	6340252.76		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-27	230 KV CXRS Strain Lattice Tower	0.00	121.50



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-04A (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-27

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

04A-P27-TSAP

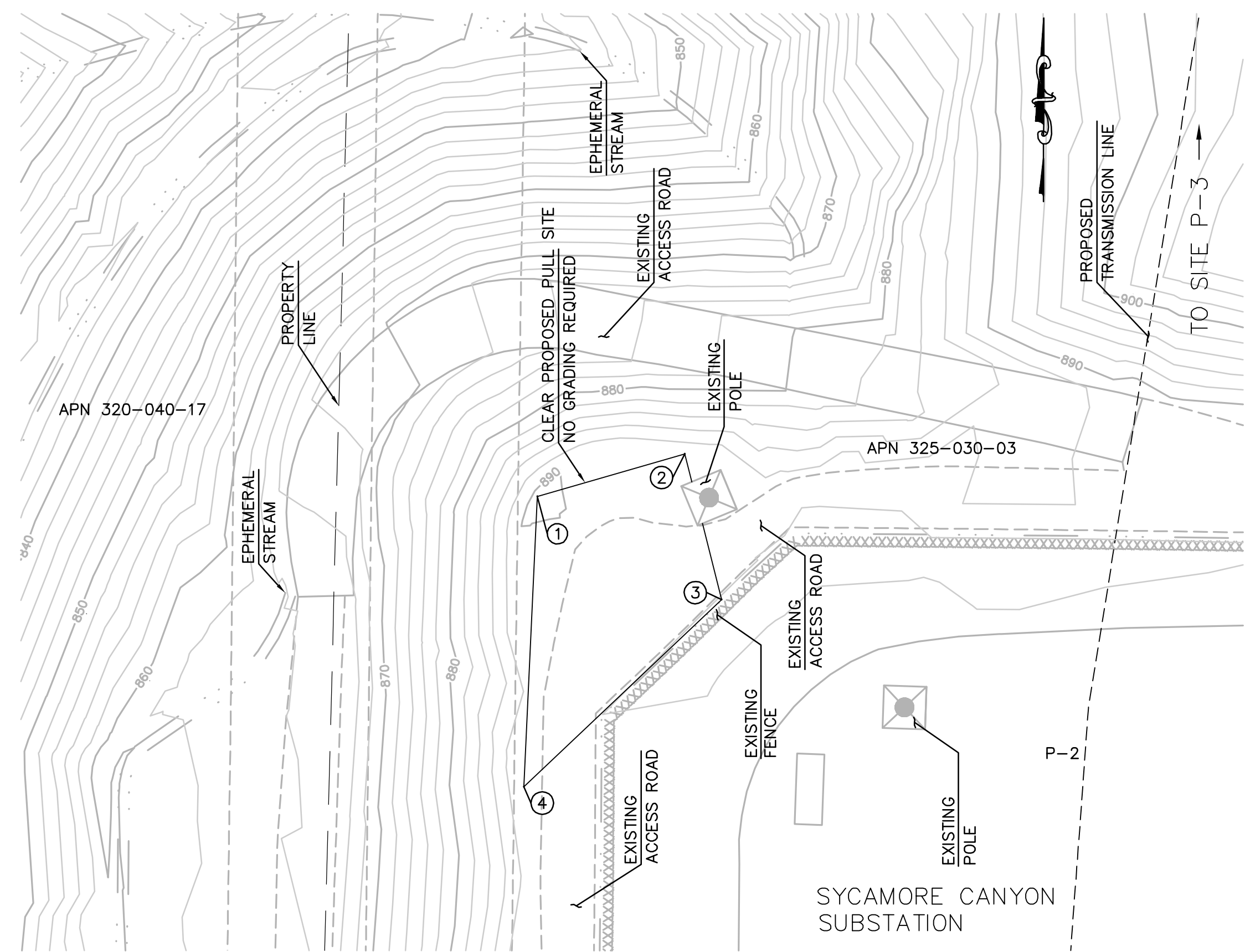


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DRAWN BY: 00		DATE:	SCALE: 1" = 20'	W.O.	REV.
CHECKED BY:		DATE:		04A-P32-2-	
APPROVED BY:		DATE:			
CAD NO.:		PLOT SCALE: 1 = 1			

P:\16919 SD&E SPL\CADD\04A\dwg\plan\Pull Sites\04A-P2 & P-3-PS.dwg[May-19-2010]17:08

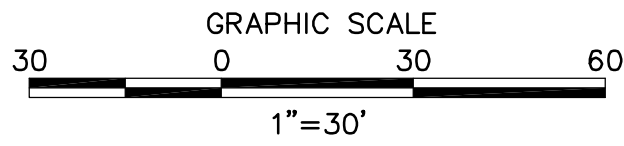


EARTH QUANTITIES: CUT: 0 CY
FILL: 0 CY
NET: 0 CY

DISTURBED AREA: PULL SITE: 3,102 SF

PULL SITE P-2 & P-3 PLAN (TEMPORARY)

SCALE: 1" = 30'



NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1914872.24	6321721.65	(890.27)	EG
2	1914884.26	6321763.28	(889.26)	EG
3	1914843.24	6321773.71	(887.42)	EG
4	1914790.38	6321717.88	(889.54)	EG

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-04A (LINK 5) PULL SITE P-2 & P-3			
DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.
CHECKED BY:	DATE:	REV. 0	
APPROVED BY:	DATE:	04A-P2 & P3-PS	
CAD NO:	PLOT SCALE: 1 = 1		



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P:\16919 SD&E SPL\CADD\04A\dwg\plan\Pull Sites\04A-P15-1-PS.dwg[May-19-2010]7:06

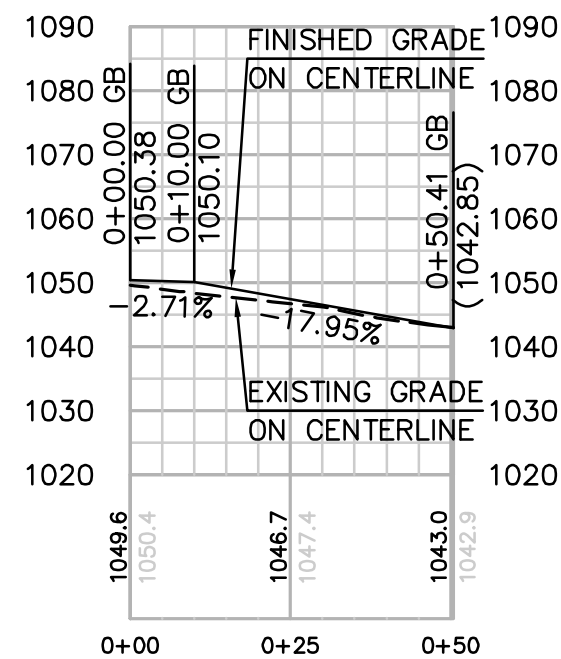
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1914503.20	6332102.85	(1005.76)	EG
2	1914499.27	6332115.47	(1005.39)	EG
3	1914561.09	6332130.92	1014.65	FG
4	1914563.89	6332117.21	1014.51	FG
5	1914555.91	6332172.40	1015.05	FG
6	1914596.83	6332175.70	1016.73	FG
7	1914619.95	6332179.71	1017.69	FG
8	1914591.25	6332240.53	1001.19	FG
9	1914602.60	6332246.25	(1000.82)	EG
10	1914638.35	6332179.65	1018.44	EG
11	1914709.27	6332179.41	1021.27	FG
12	1914724.66	6332181.06	1021.90	FG
13	1914743.41	6332180.62	1022.65	FG
14	1914776.33	6332183.42	1024.00	FG
15	1914822.31	6332187.33	1025.88	FG
16	1914824.00	6332182.57	1025.91	FG
17	1914819.49	6332171.11	1025.62	FG
18	1914809.73	6332142.25	1024.97	FG
19	1914878.49	6332124.13	1043.84	EG
20	1914875.70	6332113.58	(1043.32)	EG
21	1914809.79	6332128.31	1024.84	FG
22	1914809.82	6332123.38	1024.80	FG
23	1914810.41	6332109.05	1024.69	FG
24	1914782.39	6332104.40	1023.50	FG
25	1914746.23	6332095.62	1021.93	FG
26	1914732.91	6332098.05	1021.40	FG
27	1914709.27	6332099.12	1020.18	FG
28	1914676.01	6332102.11	1018.87	FG
29	1914643.48	6332101.97	1017.61	FG
30	1914625.17	6332103.24	1016.93	FG
31	1914611.65	6332102.78	1016.41	FG
32	1914591.04	6332101.18	1015.40	FG
33	1914569.52	6332099.37	1014.30	FG
34	1914501.09	6332109.12	(1005.68)	EG
35	1914572.21	6332126.43	1015.00	FG
36	1914596.86	6332243.52	(1000.91)	EG
37	1914633.66	6332170.76	1018.13	FG
38	1914800.05	6332137.65	1024.53	FG
39	1914877.10	6332118.86	(1043.58)	EG

PULL SITE P-15-1 (SOUTH) PLAN (TEMPORARY)

EARTH QUANTITIES: CUT: 1,213 CY
FILL: 998 CY
NET: 215 CY

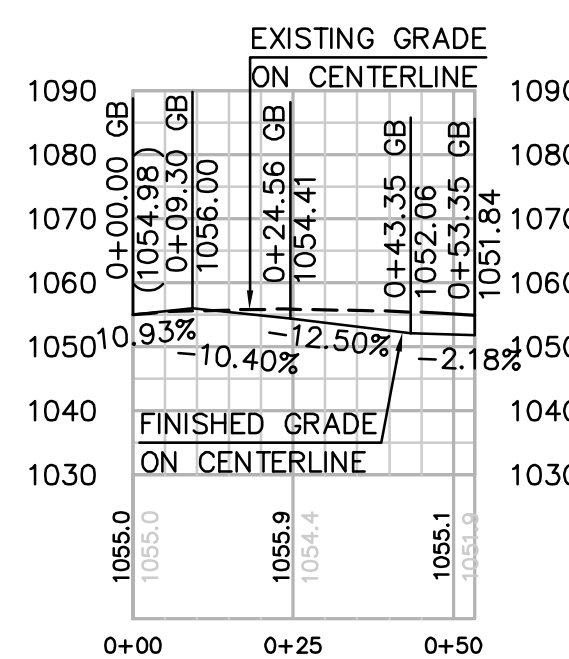
DISTURBED AREA: PULL SITE: 24,614 SF
ROAD: 3,142 SF
TOTAL: 27,756 SF

QUANTITIES: RIP RAP: 25 SF
DOWN DRAIN: 9 LF
LENGTH OF ACCESS ROAD: 200 LF



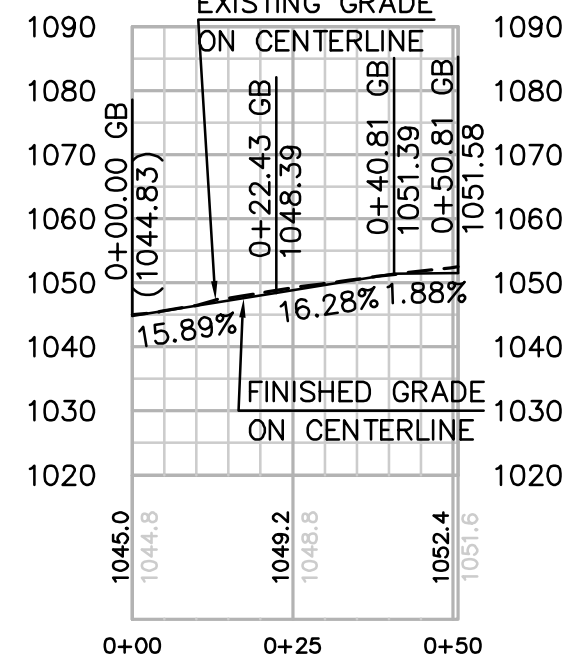
PULLSITE P-15-1 (NORTH) NORTH ACCESS ROAD

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



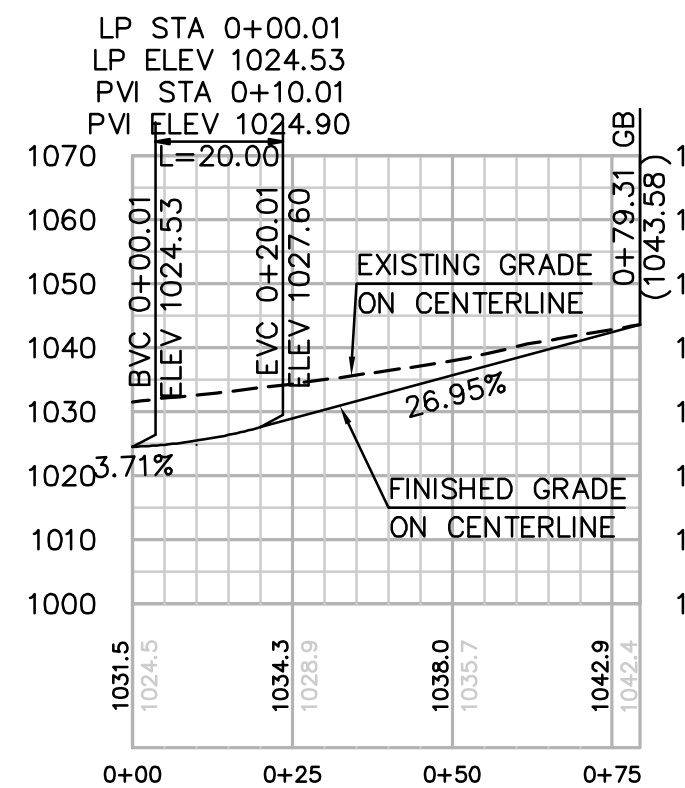
PULLSITE P-15-1 (NORTH) SOUTH ACCESS ROAD

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



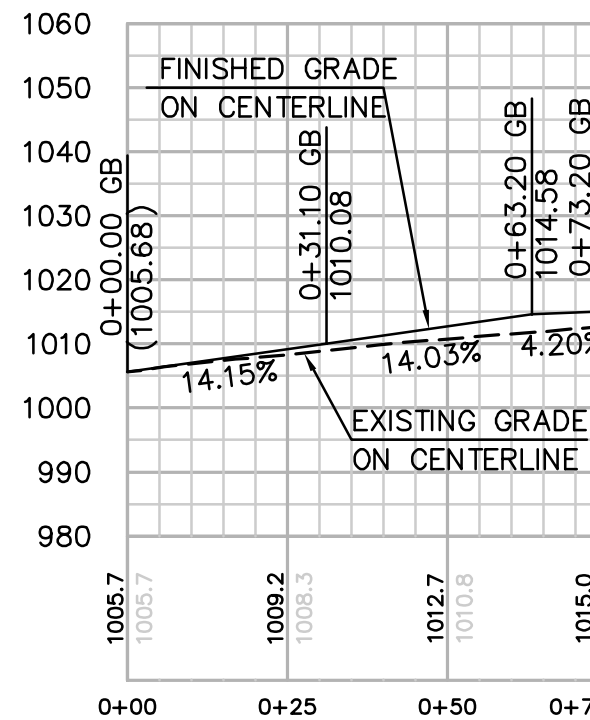
PULLSITE P-15-1 (NORTH) WEST ACCESS ROAD

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



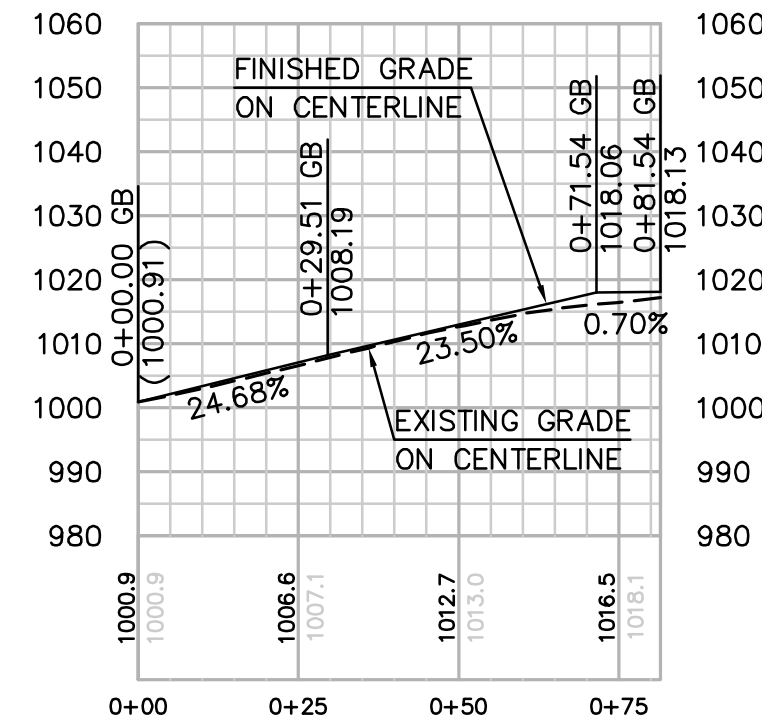
PULLSITE P-15-1 (SOUTH) NORTH ACCESS ROAD

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



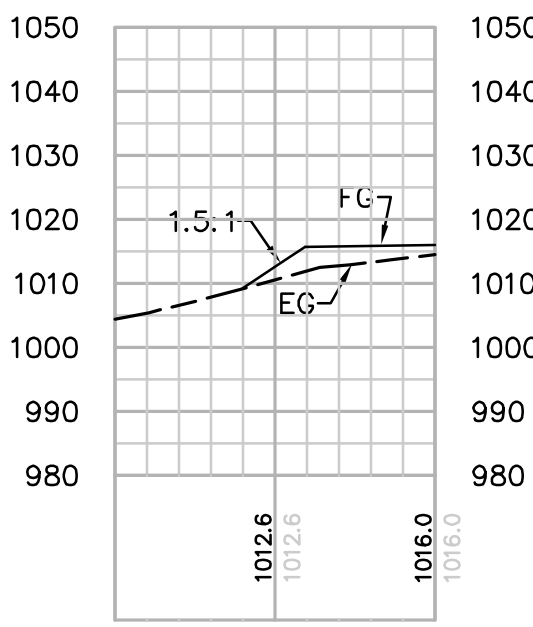
PULLSITE P-15-1 (SOUTH) SOUTH ACCESS ROAD

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



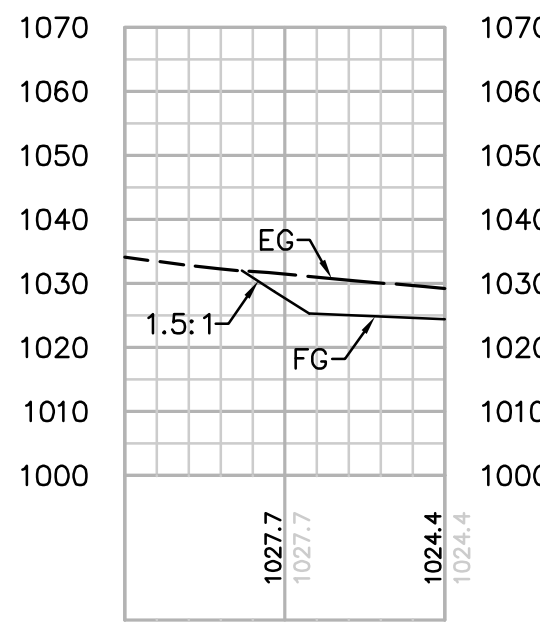
PULLSITE P-15-1 (SOUTH) EAST ACCESS ROAD

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



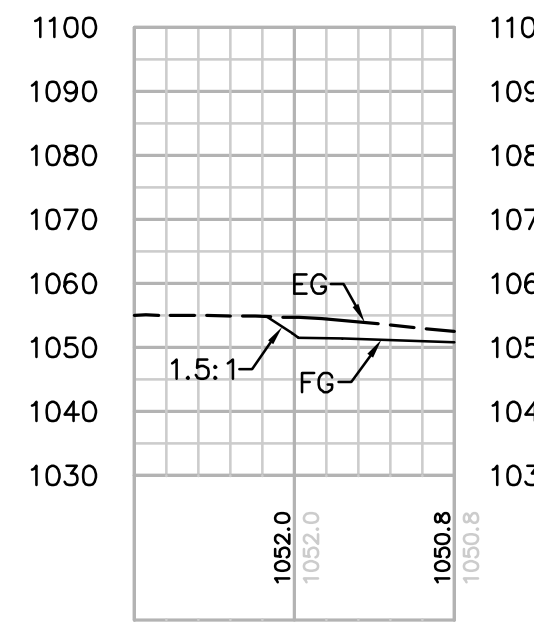
SECTION A-A

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



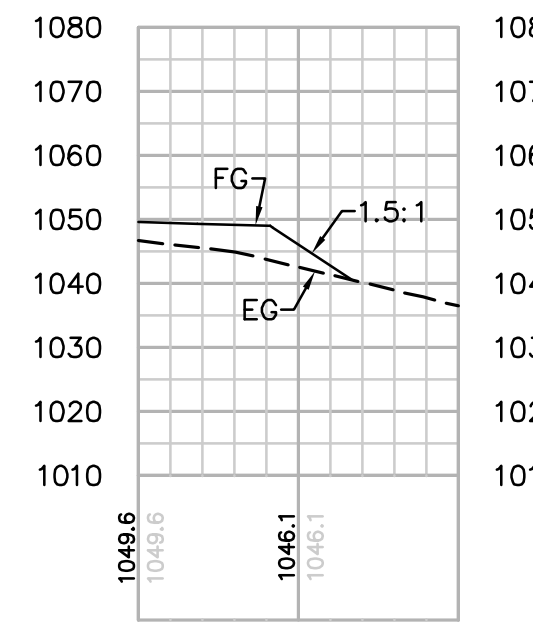
SECTION B-B

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



SECTION C-C

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



SECTION D-D

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

CENTERLINE DATA				
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE	
C1	233.50	50.81	12°28'05"	
L1		73.20	N13°40'27"E	
L2		81.54	N63°10'03"W	
L3		79.31	N13°42'30"W	
L4		53.35	N15°33'38"W	
L5		50.41	N6°00'32"W	

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

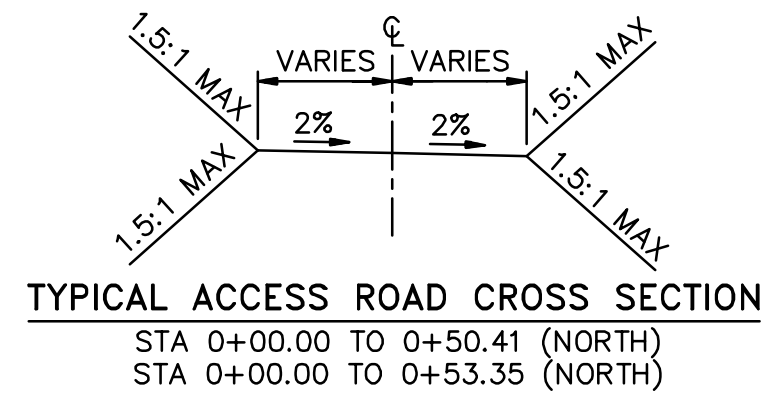
REVISIONS

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

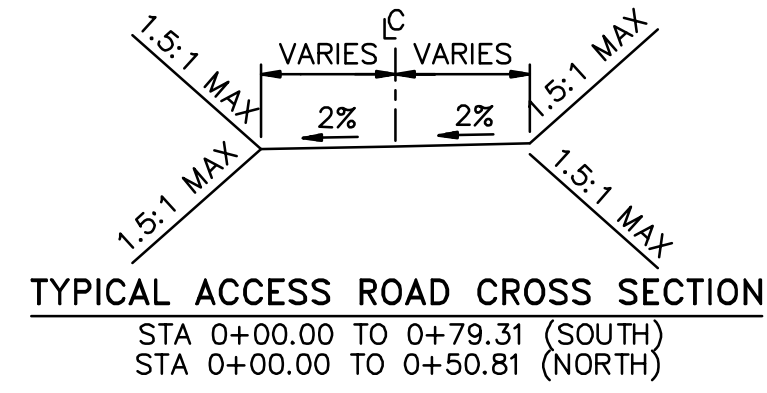
WORK DONE	DATE	BY:	APP'D:	NO.

WORK DONE	DATE	BY:	APP'D:

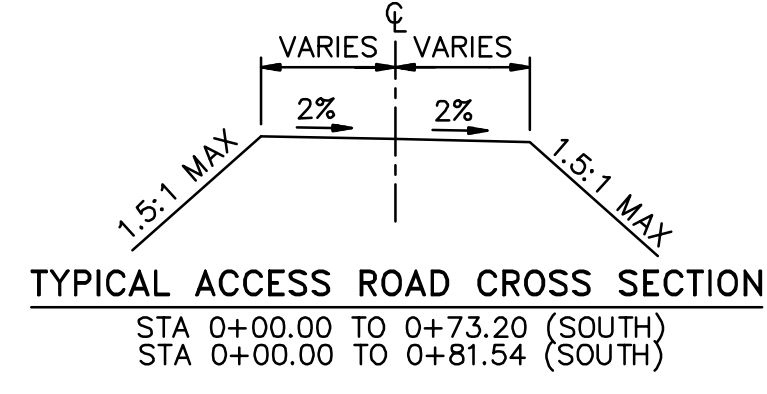
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
40	1914962.54	6332100.25	(1054.76)	EG
41	1915002.85	6332092.24	1051.81	FG
42	1915001.90	6332109.68	1051.38	FG
43	1914998.15	6332128.52	1050.99	FG
44	1915001.14	6332143.40	1050.51	FG
45	1915004.76	6332146.97	1050.30	FG
46	1915010.74	6332146.13	1050.15	FG
47	1915032.23	6332134.39	1049.81	FG
48	1915077.57	6332100.98	1049.33	FG
49	1915081.97	6332096.93	1049.31	FG
50	1915082.46	6332077.36	1049.81	FG
51	1915122.51	6332072.21	(1042.67)	EG
52	1915121.97	6332052.70	(1043.03)	EG
53	1915081.54	6332053.10	1050.33	FG
54	1915083.53	6332048.74	1050.15	FG
55	1915080.13	6332013.36	1049.19	FG
56	1915075.81	6331999.18	1048.88	FG
57	1915032.11	6331997.65	1050.01	FG
58	1915002.41	6332008.11	1051.04	FG
59	1914992.53	6331970.66	(1044.84)	EG
60	1914978.84	6331973.38	(1044.82)	EG
61	1914989.97	6332015.52	1051.67	FG
62	1915001.60	6332040.76	1052.10	FG
63	1915003.60	6332064.05	1052.53	FG
64	1915003.38	6332072.33	1052.32	FG
65	1914961.35	6332093.91	(1054.98)	EG
66	1915012.75	6332079.60	1051.84	FG
67	1914986.16	6331971.92	(1044.83)	EG
68	1914999.34	6332020.89	1051.58	FG
69	1915072.11	6332067.73	1050.38	FG
70	1915122.24	6332062.46	(1042.85)	EG
71	1914960.16	6332087.57	(1055.13)	EG



TYPICAL ACCESS ROAD CROSS SECTION
STA 0+00.00 TO 0+50.41 (NORTH)
STA 0+00.00 TO 0+53.35 (NORTH)



TYPICAL ACCESS ROAD CROSS SECTION
STA 0+00.00 TO 0+79.31 (SOUTH)
STA 0+00.00 TO 0+50.81 (NORTH)



TYPICAL ACCESS ROAD CROSS SECTION
STA 0+00.00 TO 0+73.20 (SOUTH)
STA 0+00.00 TO 0+81.54 (SOUTH)



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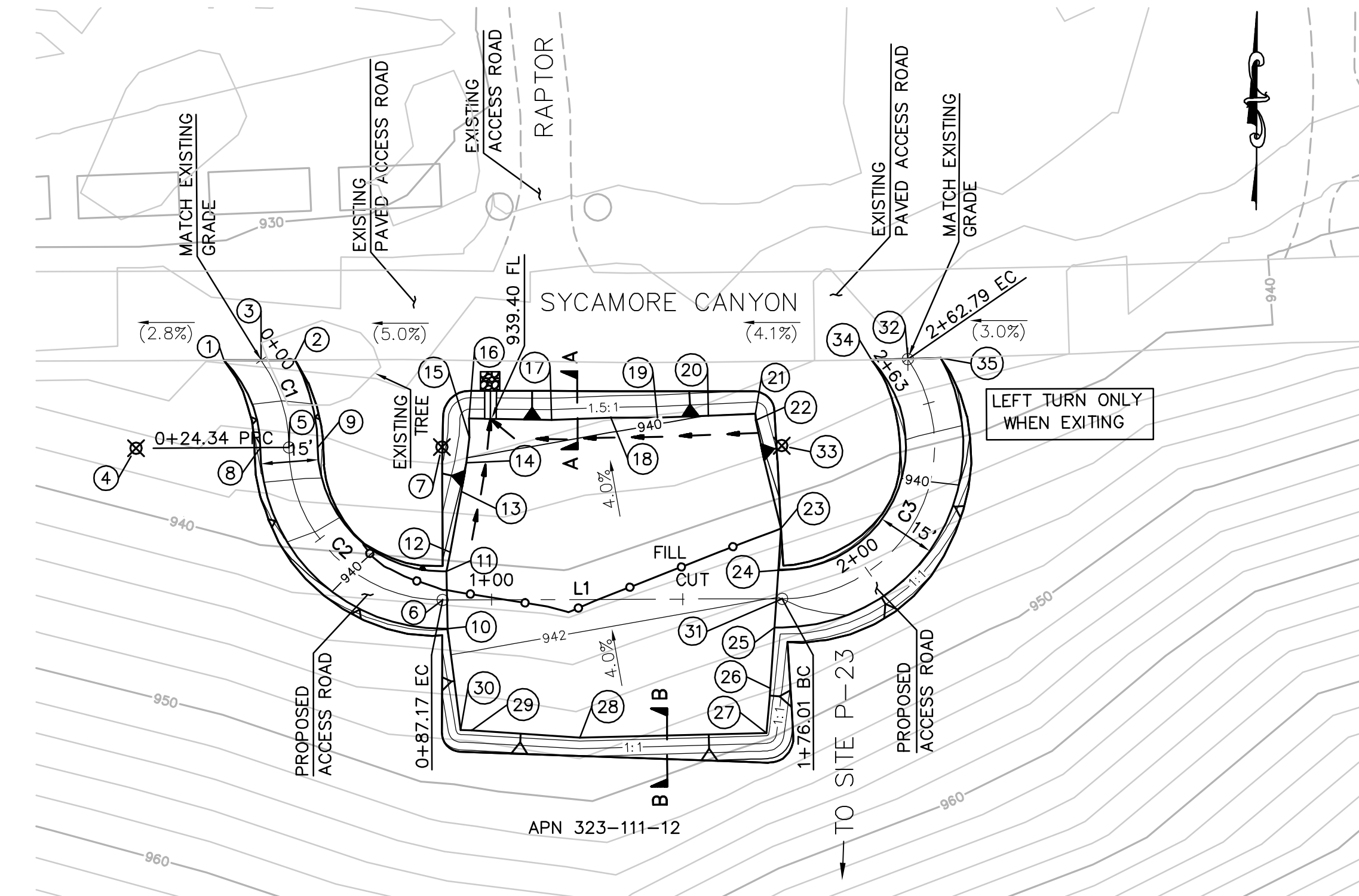
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-04A (LINK 5)

PULL SITES (NORTH) & (SOUTH) P-15-1

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

04A-P15-1-PS-A&B



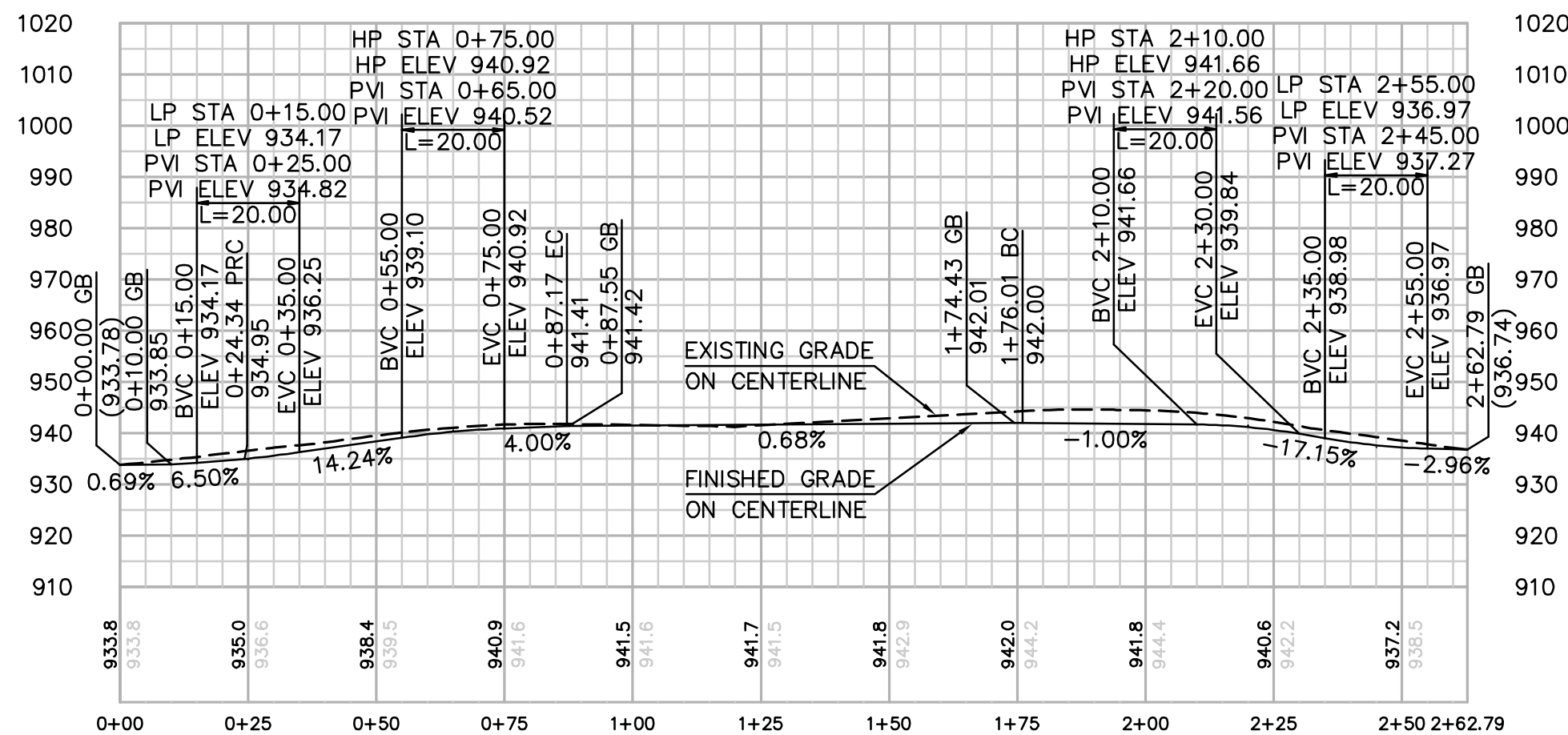
EARTH QUANTITIES:
CUT: 548 CY
FILL: 349 CY
NET: 199 CY

DISTURBED AREA:
PULL SITE: 8,514 SF
ROAD: 3,237 SF
TOTAL: 11,751 SF

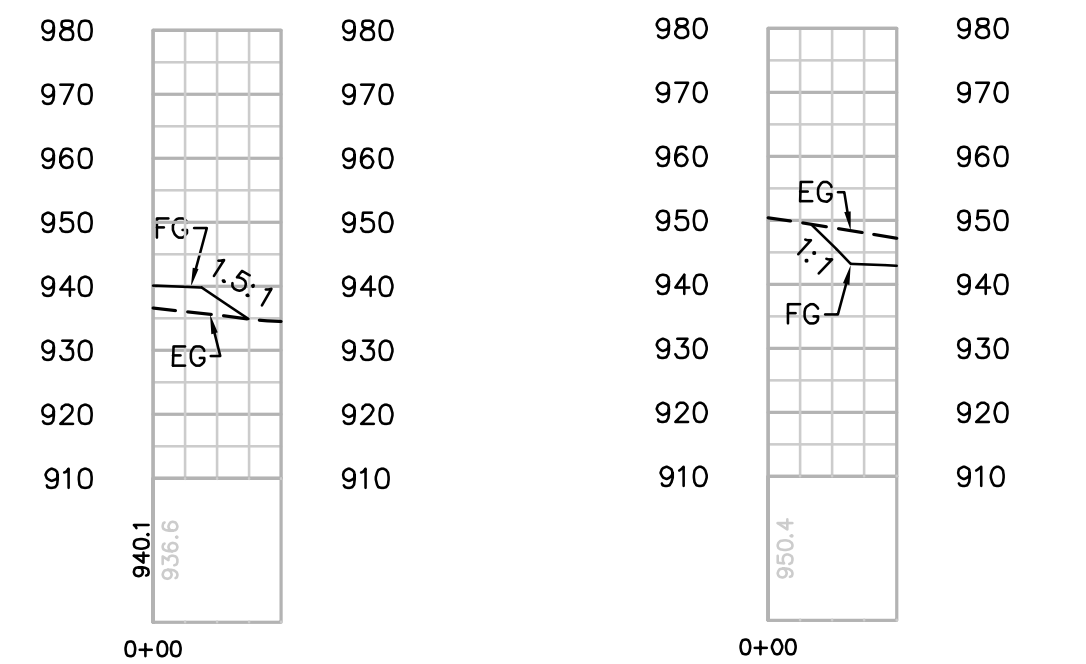
QUANTITIES:
RIP RAP: 25 SF
DOWN DRAIN: 7 LF
LENGTH OF ACCESS ROAD: 177 LF

PULL SITE (NORTH) P-23 PLAN (TEMPORARY)
SCALE: 1" = 30'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1923627.38	6335628.44	(933.91)	EG
2	1923627.49	6335646.90	(933.67)	EG
3	1923627.44	6335638.14	(933.78)	BC/CL
4	1923604.45	6335605.41		RP
5	1923604.60	6335645.41	934.95	EC/CL
6	1923564.75	6335685.56	941.41	EC/CL
7	1923604.75	6335685.41		RP
8	1923604.57	6335637.91	935.10	FG
9	1923604.63	6335652.91	934.80	FG
10	1923557.25	6335686.90	941.72	FG
11	1923572.25	6335686.56	941.13	FG
12	1923577.28	6335687.58	940.94	FG
13	1923593.14	6335690.46	940.34	FG
14	1923600.66	6335691.83	940.05	FG
15	1923607.21	6335692.55	939.80	FG
16	1923612.23	6335692.51	939.60	FG
17	1923611.84	6335714.05	939.76	FG
18	1923612.39	6335729.59	939.85	FG
19	1923612.44	6335741.76	939.93	FG
20	1923612.92	6335755.02	940.00	FG
21	1923613.38	6335767.32	940.07	FG
22	1923611.75	6335767.51	940.14	FG
23	1923583.40	6335774.05	941.30	FG
24	1923572.58	6335773.32	941.72	FG
25	1923557.57	6335772.32	942.31	FG
26	1923541.68	6335771.25	942.92	FG
27	1923529.92	6335770.28	943.38	FG
28	1923528.77	6335721.50	943.09	FG
29	1923530.65	6335693.21	942.82	FG
30	1923530.80	6335690.30	942.79	FG
31	1923565.08	6335774.40	942.00	BC/CL
32	1923627.74	6335807.21	(936.74)	EC/CL
33	1923605.08	6335774.25		RP
34	1923627.55	6335797.73	(936.45)	EG
35	1923628.00	6335815.85	(937.00)	EG



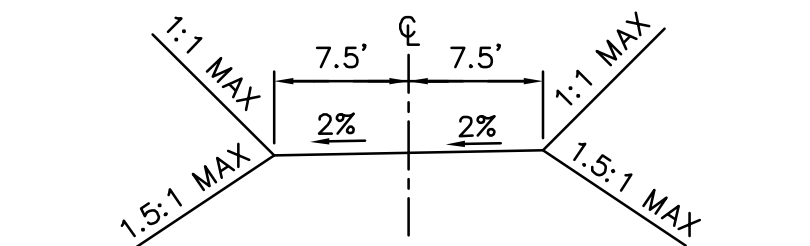
PULL SITE (NORTH) P-23 ACCESS PROFILE (TEMPORARY)
HORIZ. & VERT. SCALE: 1" = 30'



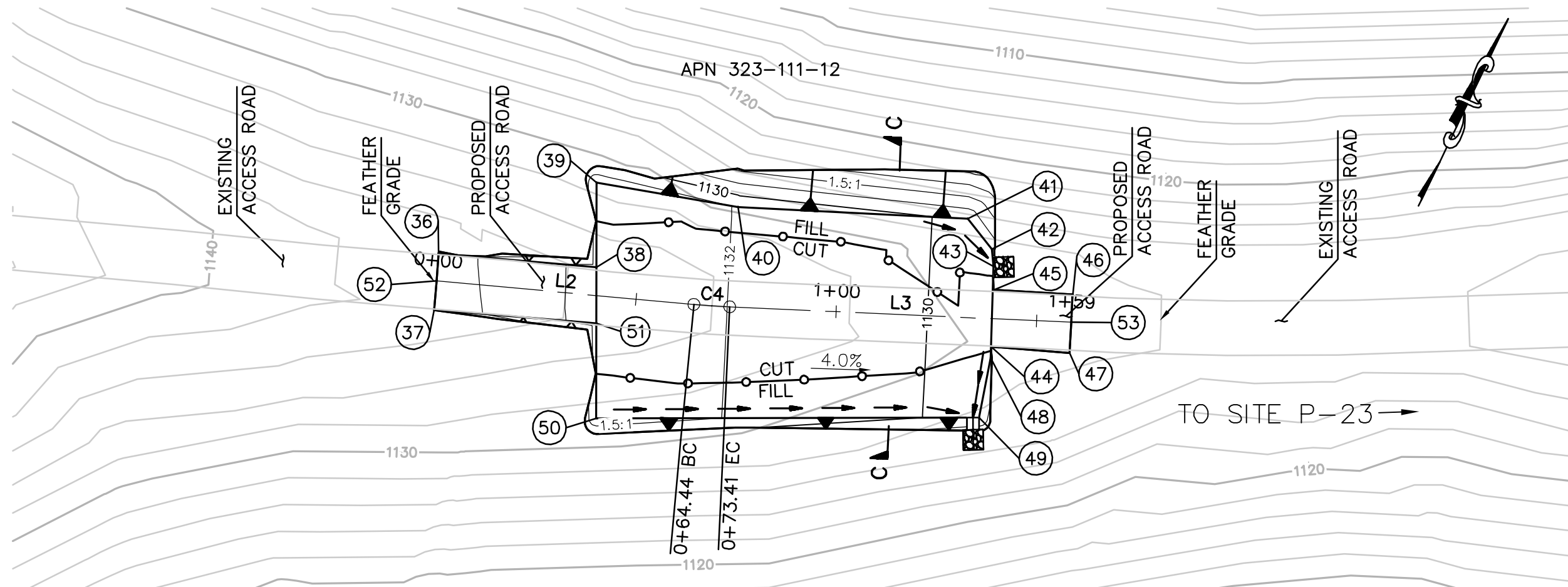
SECTION A-A
HORIZ. & VERT. SCALE: 1" = 30'

SECTION B-B
HORIZ. & VERT. SCALE: 1" = 30'

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/Delta ANGLE
C1	40.00	24.34	34°51'35"
C2	40.00	62.83	90°00'01"
C3	40.00	86.77	124°17'44"
L1		88.84	N89°47'13"E



TYPICAL ACCESS ROAD CROSS SECTION
TYPICAL ACCESS ROAD TO PULL SITE (NORTH) P-23

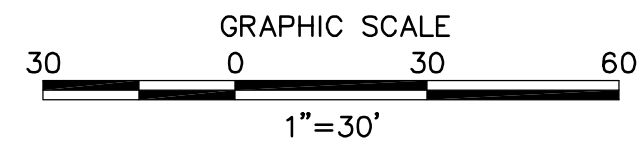


EARTH QUANTITIES:
CUT: 159 CY
FILL: 117 CY
NET: 42 CY

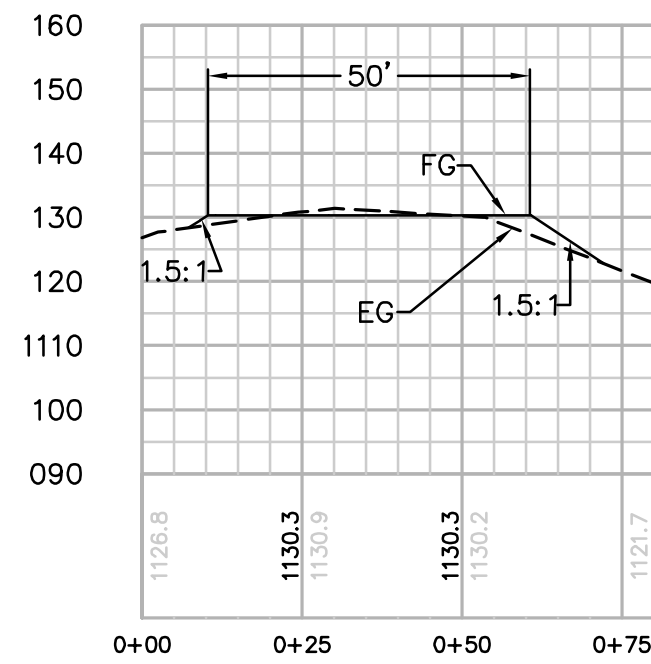
DISTURBED AREA:
PULL SITE: 6,473 SF
ROAD: 888 SF
TOTAL: 7,361 SF

QUANTITIES:
RIP RAP: 50 SF
DOWN DRAIN: 3 LF
LENGTH OF ACCESS ROAD: 159 LF

PULL SITE (SOUTH) P-23 PLAN (TEMPORARY)
SCALE: 1" = 30'

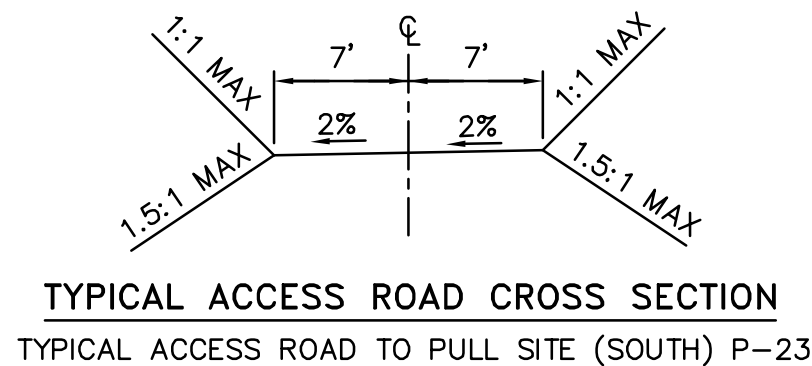


NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
36	1922873.56	6335527.88	(1136.89)	EG
37	1922860.45	6335532.79	(1137.17)	EG
38	1922887.39	6335564.85	1133.32	FG
39	1922906.38	6335555.89	1133.36	FG
40	1922915.96	6335590.35	1131.94	FG
41	1922937.92	6335643.36	1129.64	FG
42	1922933.57	6335652.06	1129.39	FG
43	1922929.89	6335654.28	1129.36	FG
44	1922911.49	6335662.42	1129.35	FG
45	1922924.56	6335656.77	1129.42	FG
46	1922932.05	6335675.09	(1128.69)	EG
47	1922918.51	6335680.63	(1128.50)	EG
48	1922908.98	6335663.42	1129.35	FG
49	1922894.30	6335667.09	1129.12	FG
50	1922853.31	6335580.94	1133.25	FG
51	1922874.69	6335570.85	1133.29	FG
52	1922867.17	6335530.27	(1137.03)	EG/CL
53	1922925.58	6335677.74	(1128.69)	EG/CL

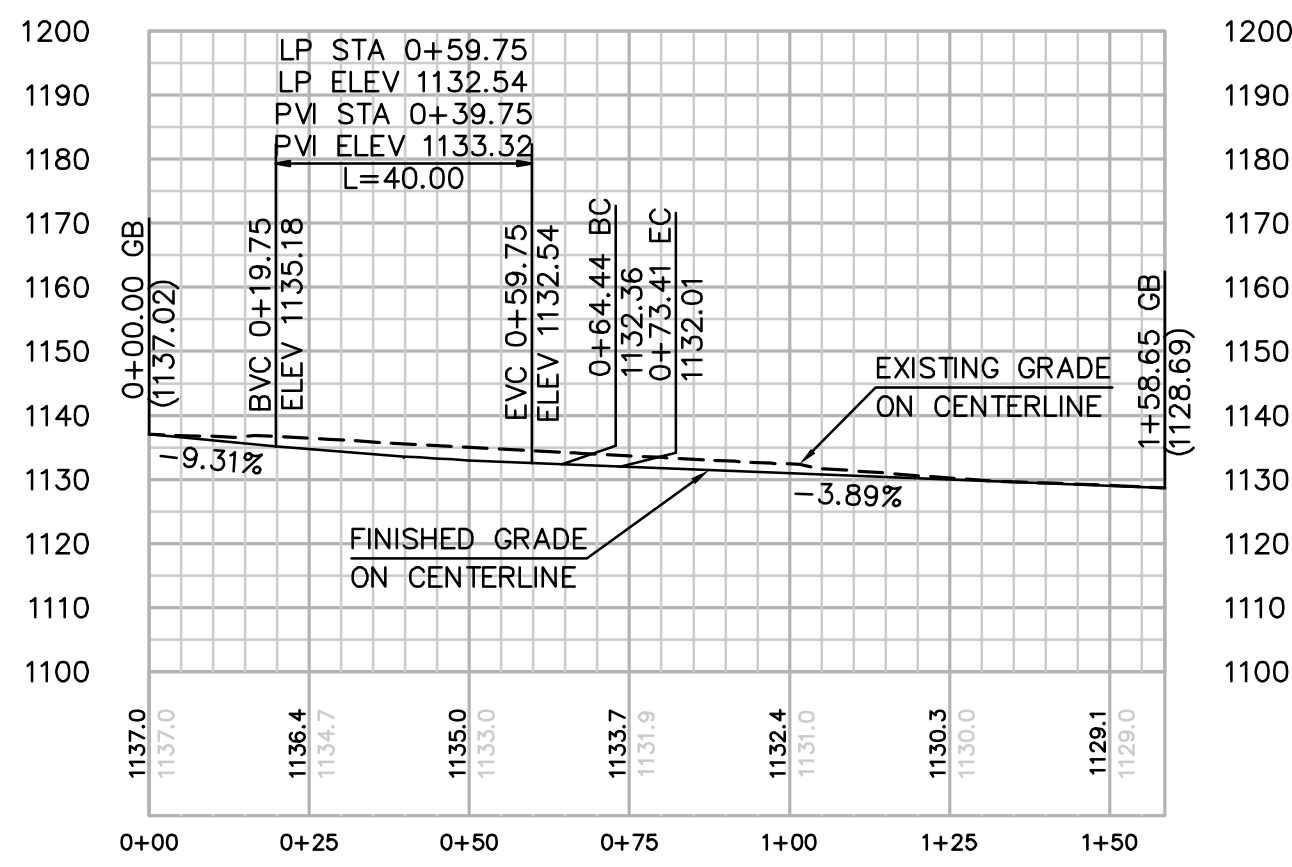


SECTION C-C
HORIZ. & VERT. SCALE: 1" = 30'

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/Delta ANGLE
C4	200.00	8.97	2°34'07"
L2		64.44	N69°50'48"E
L3		85.24	N67°16'41"E



TYPICAL ACCESS ROAD CROSS SECTION
TYPICAL ACCESS ROAD TO PULL SITE (SOUTH) P-23



PULL SITE (SOUTH) P-23 ACCESS PROFILE (TEMPORARY)
HORIZ. & VERT. SCALE: 1" = 30'

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

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-04A (LINK 5)
PULL SITE (NORTH & SOUTH) P-23

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

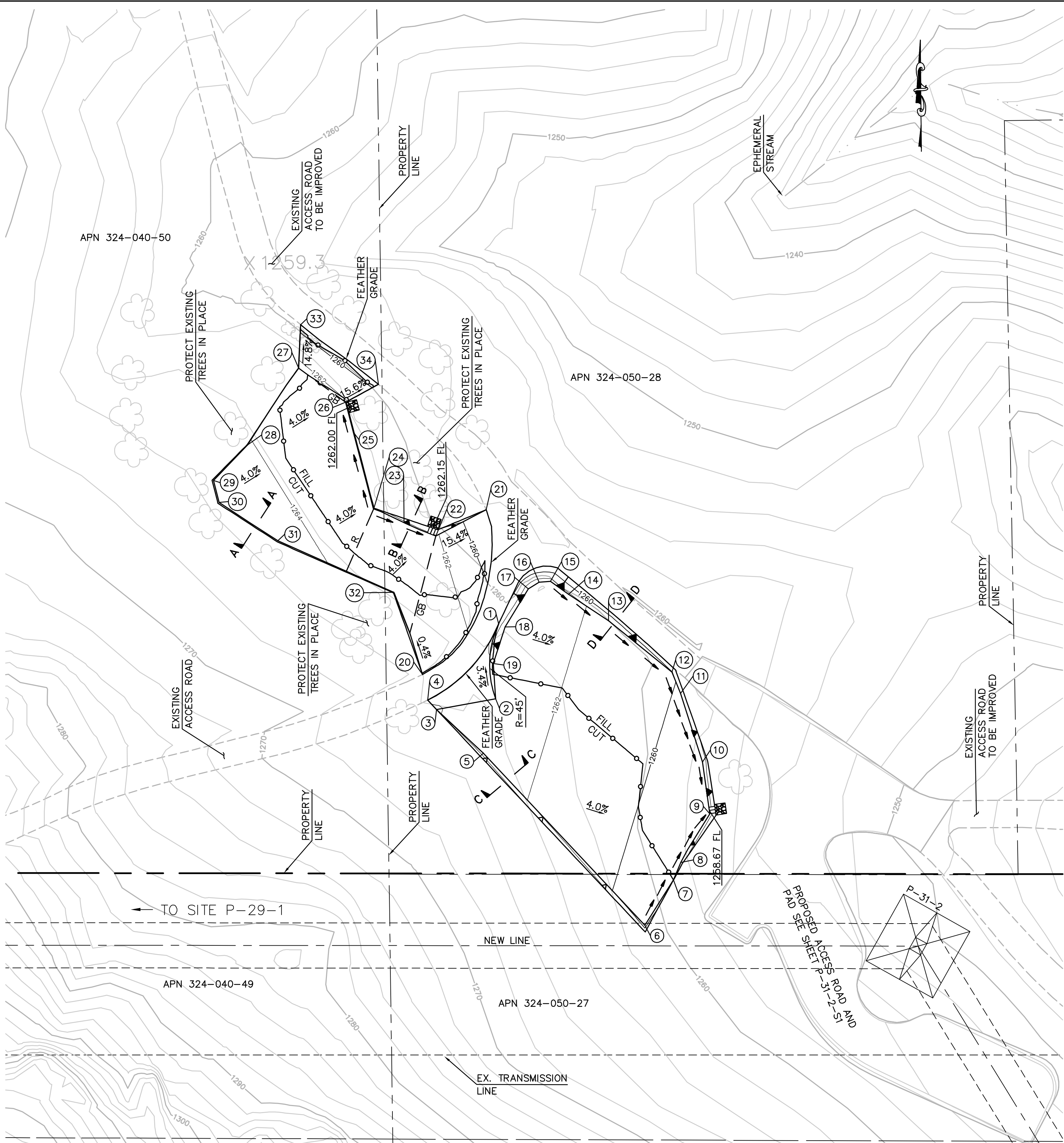
04A-P23-PS-A & B



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P:\16919 SD&E SPL\CADD\04A\dwg\plan\Pull Sites\04A-P31-PS-Adwg[May-19-2010]17.04



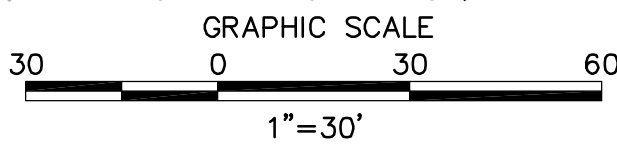
EARTH QUANTITIES: CUT: 221 CY
FILL: 206 CY
NET: 15 CY

DISTURBED AREA: PULL SITE: 19,642 SF
TOTAL: 19,642 SF

QUANTITIES: RIP RAP: 75 SF
DOWN DRAIN: 6 LF

PULL SITE (WEST) P-31-2 PLAN (TEMPORARY)

SCALE: 1" = 30'

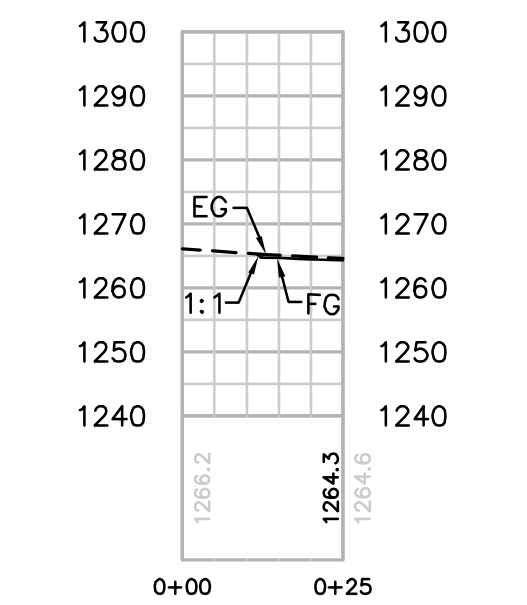


REVISIONS

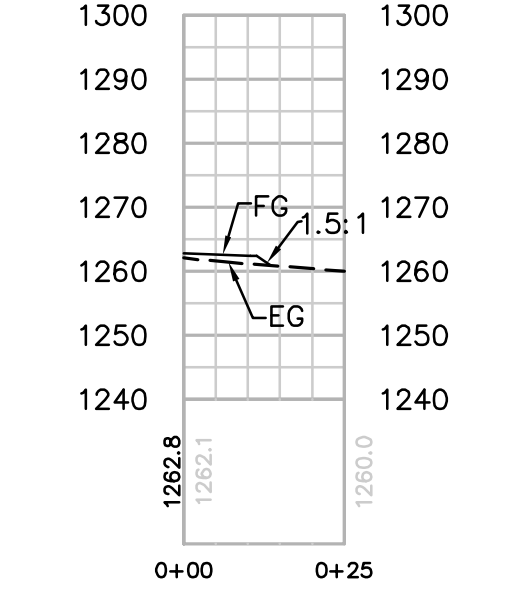
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY SAN DIEGO, CALIFORNIA			
SPL-04A (LINK 5) PULL SITE (WEST) P-31-2			
DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O. REV. 0
CHECKED BY:	DATE:	04A-P31-2-PS-A	
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1" = 1		

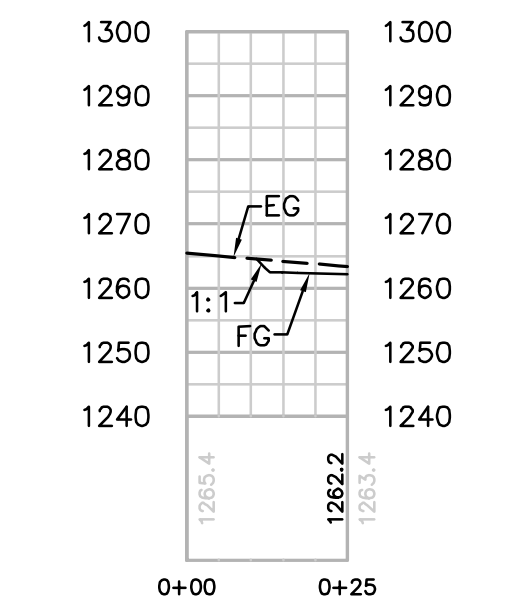
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1923123.18	6343286.37	(1261.12)	BC/EG
2	1923088.43	6343284.34	1263.12	EC/FG
3	1923083.88	6343256.79	1264.11	FG
4	1923088.38	6343252.71	(1263.92)	EG
5	1923063.21	6343278.19	1263.04	FG
6	1922981.79	6343351.75	1259.24	FG
7	1923002.72	6343365.50	1258.97	FG
8	1923010.73	6343368.98	1258.94	FG
10	1923057.25	6343379.94	1259.09	FG
11	1923089.32	6343370.39	1259.85	FG
12	1923099.29	6343366.58	1260.12	FG
13	1923123.76	6343337.49	1261.53	FG
14	1923136.37	6343319.14	1262.38	FG
15	1923142.49	6343310.88	1262.77	FG
16	1923142.26	6343305.54	1262.97	FG
17	1923139.20	6343300.51	1263.13	FG
18	1923121.72	6343289.36	1263.34	FG
19	1923104.78	6343283.56	1263.35	FG
20	1923100.32	6343250.52	(1264.00)	EG
21	1923176.34	6343281.55	(1258.12)	EG
22	1923164.58	6343257.92	1262.21	FG
23	1923171.08	6343243.25	1262.45	FG
24	1923177.71	6343229.31	1262.74	FG
25	1923213.54	6343220.47	1262.31	FG
26	1923227.54	6343217.11	1262.14	FG
27	1923243.73	6343195.55	1262.55	FG
28	1923208.45	6343171.10	1264.11	FG
29	1923192.29	6343155.01	1265.00	FG
30	1923182.02	6343157.44	1265.12	FG
31	1923163.70	6343184.43	1264.57	FG
32	1923138.79	6343237.89	1263.50	FG
33	1923263.94	6343196.90	(1259.39)	EG
34	1923235.58	6343232.50	(1259.48)	EG



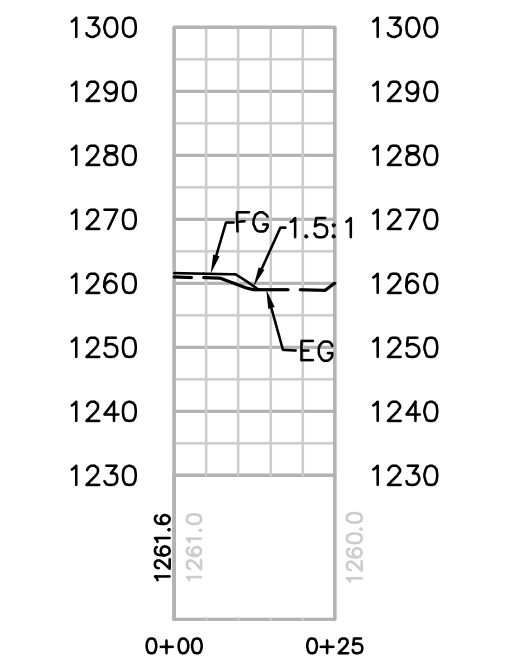
SECTION A-A
HORIZ. & VERT. SCALE: 1" = 30'



SECTION B-B
HORIZ. & VERT. SCALE: 1" = 30'



SECTION C-C
HORIZ. & VERT. SCALE: 1" = 30'



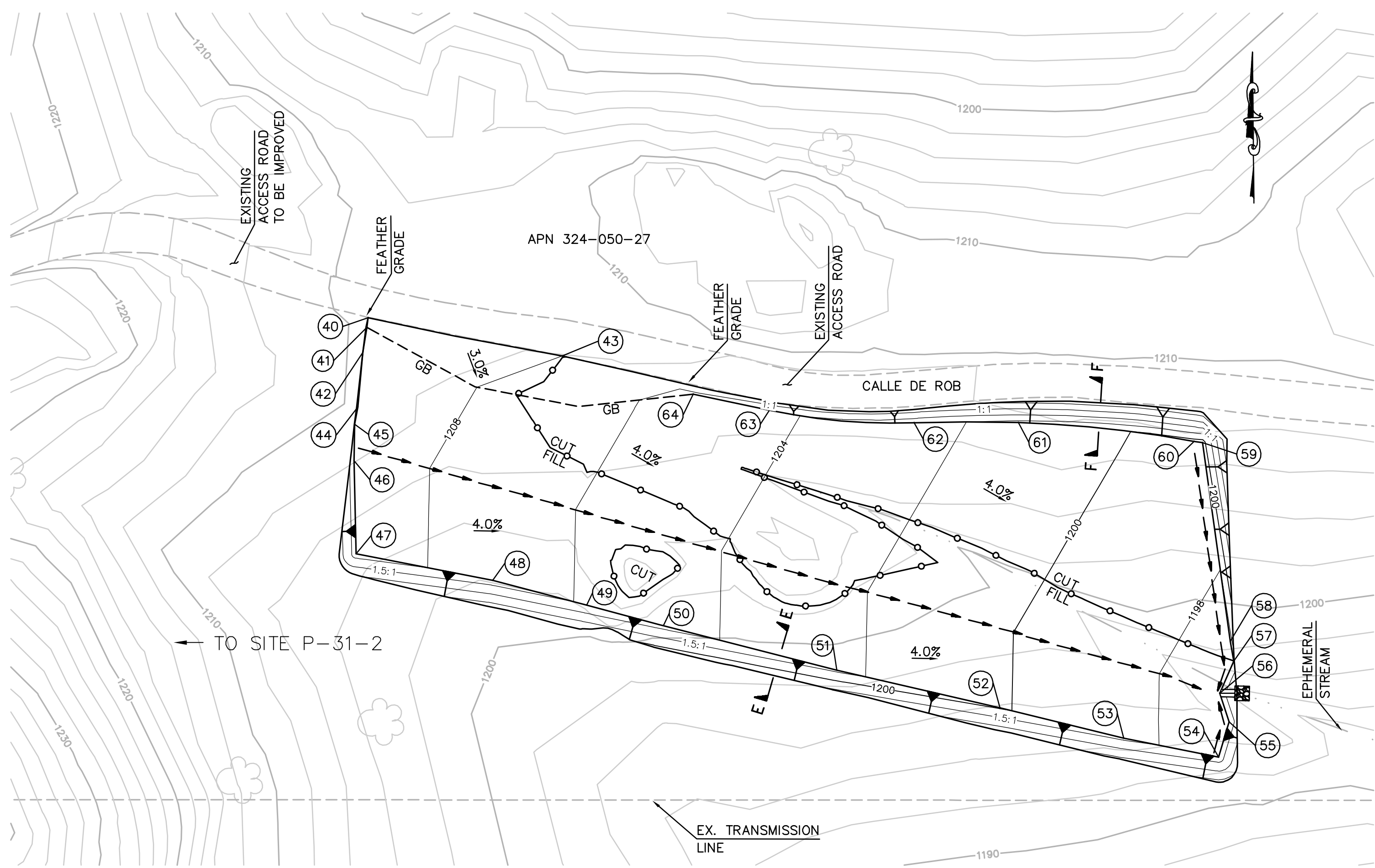
SECTION D-D
HORIZ. & VERT. SCALE: 1" = 30'



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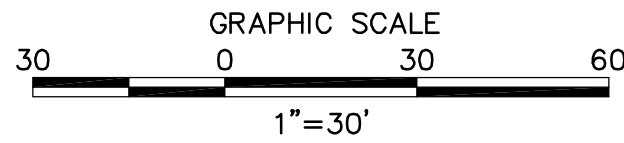
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EARTH QUANTITIES: CUT: 1,196 CY
DISTURBED AREA: PULL SITE: 30,632 SF
QUANTITIES: RIP RAP: 25 SF
FILL: 1,089 CY
NET: 107 CY
TOTAL: 30,632 SF
DOWN DRAIN: 5 LF

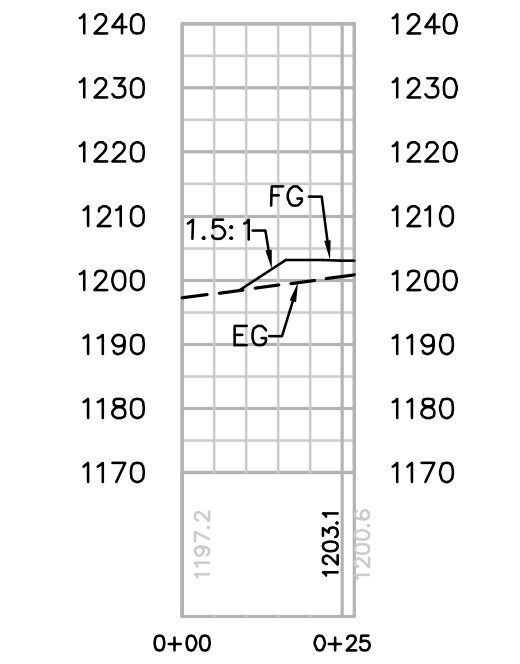
PULL SITE (EAST) P-31-2 PLAN (TEMPORARY)

SCALE: 1" = 30'

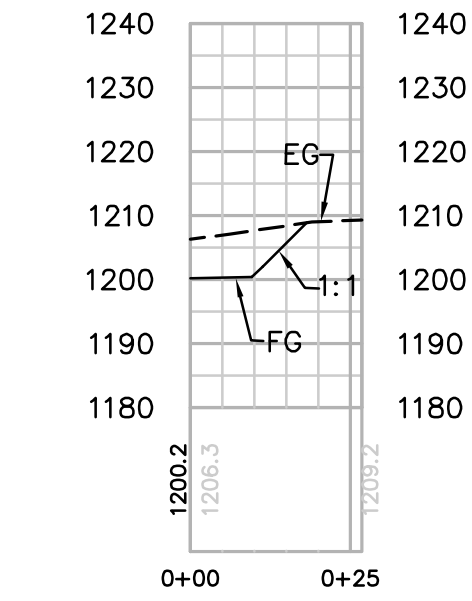


NOTE: GRADING IS TEMPORARY
ON TEMPORARY PULL SITE LOCATIONS
AND ACCESS ROADS.

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
40	1923075.84	6343939.64	(1209.54)	EG
41	1923072.62	6343939.18	1209.71	FG
42	1923063.97	6343937.64	1209.58	FG
43	1923061.53	6344005.86	(1208.00)	EG
44	1923045.34	6343935.56	1209.27	FG
45	1923039.44	6343934.34	1209.19	FG
46	1923026.94	6343933.93	1209.03	FG
47	1922995.05	6343934.04	1208.98	FG
48	1922985.09	6343980.70	1207.11	FG
49	1922976.02	6344012.67	1205.82	FG
50	1922968.58	6344038.88	1204.77	FG
51	1922952.14	6344097.99	1202.40	FG
52	1922938.21	6344153.59	1200.16	FG
53	1922927.09	6344195.86	1198.47	FG
54	1922920.01	6344228.19	1197.21	FG
55	1922932.01	6344232.01	1197.18	FG
56	1922941.86	6344228.97	1197.15	FG
57	1922952.80	6344234.02	1197.21	FG
58	1922959.61	6344232.89	1197.39	FG
59	1923027.87	6344224.71	1199.08	FG
60	1923028.29	6344221.77	1199.19	FG
61	1923035.87	6344161.72	1201.39	FG
62	1923036.43	6344126.08	1202.61	FG
63	1923041.66	6344076.48	1204.40	FG
64	1923047.65	6344050.51	1205.41	FG



SECTION E-E
HORIZ. & VERT. SCALE: 1" = 30'



SECTION F-F
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-04A (LINK 5)
PULL SITE (EAST) P-31-2

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

04A-P31-2-PS-B



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SUNRISE POWERLINK PROJECT

SECTION 04A (LINK 5)

230kV 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 CUTTER 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.

GENERAL NOTES (CONTINUED)

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 RECEIVED 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 CONTRATOR 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:

SHEET 1	TITLE SHEET
SHEET 2	CONSTRUCTION NOTES, DETAILS, ABBREVIATIONS AND LEGEND
SHEET 3	TRAFFIC CONTROL DETAILS
SHEET 4	PERMIT 4A-1

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

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 _____

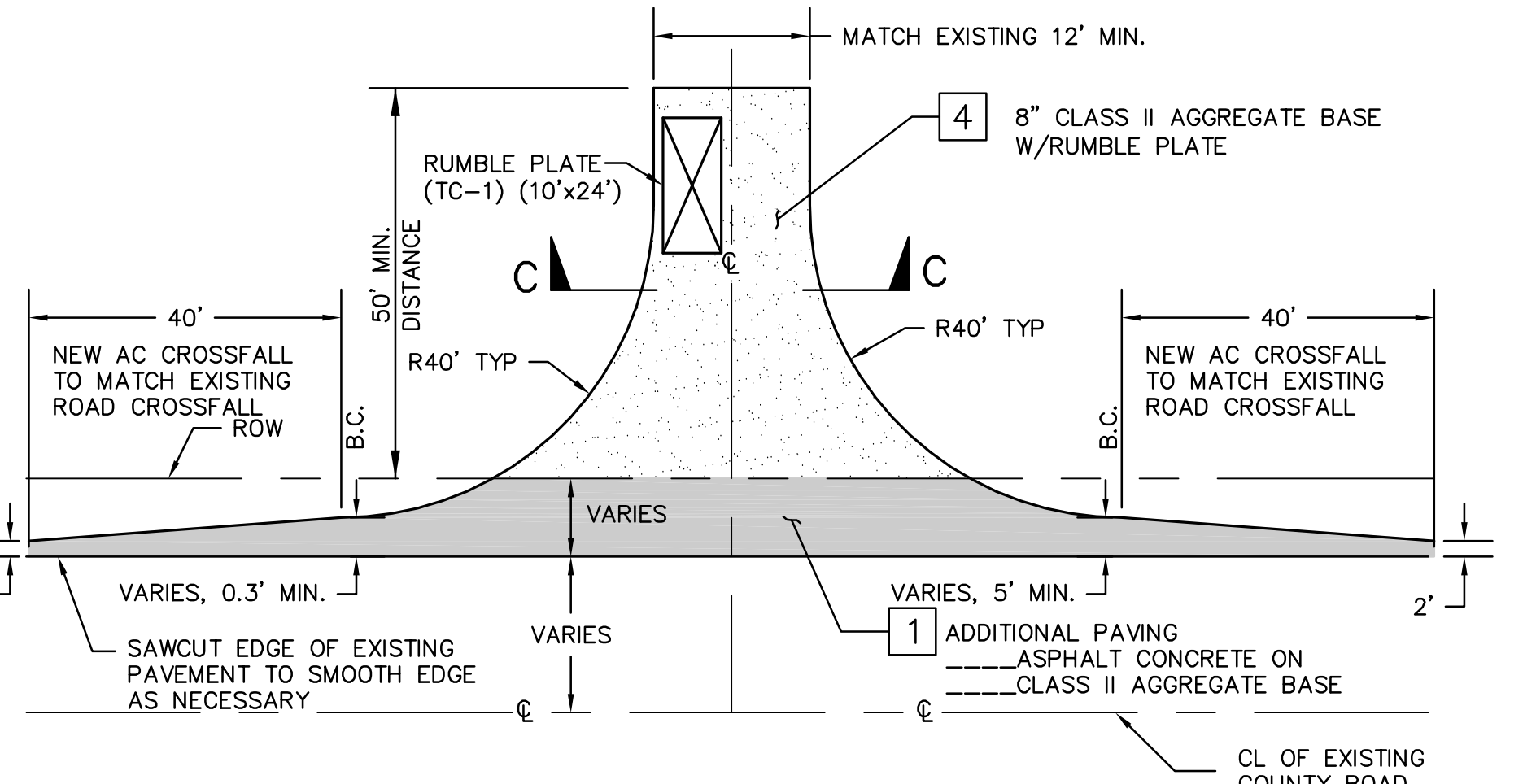
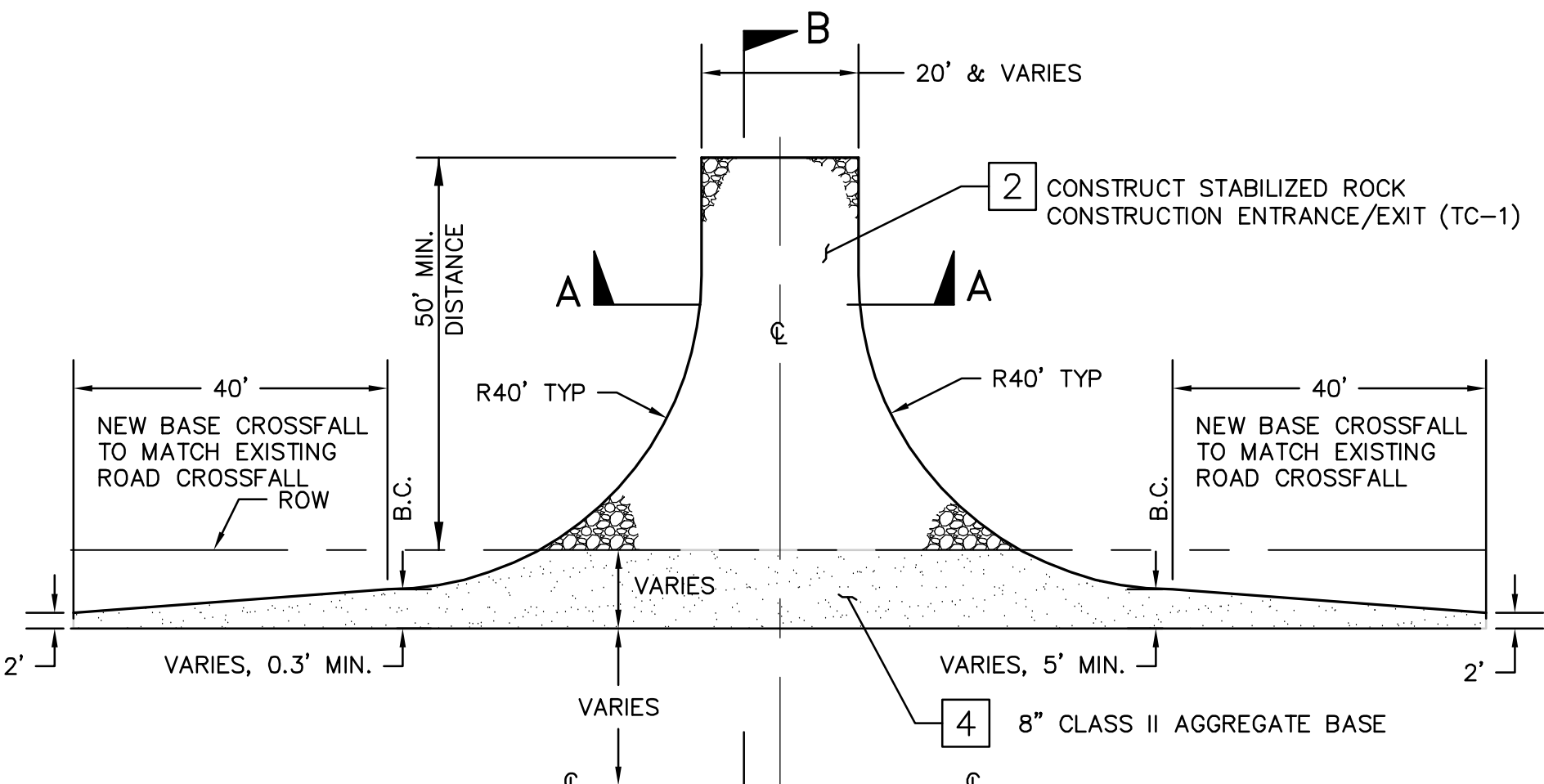
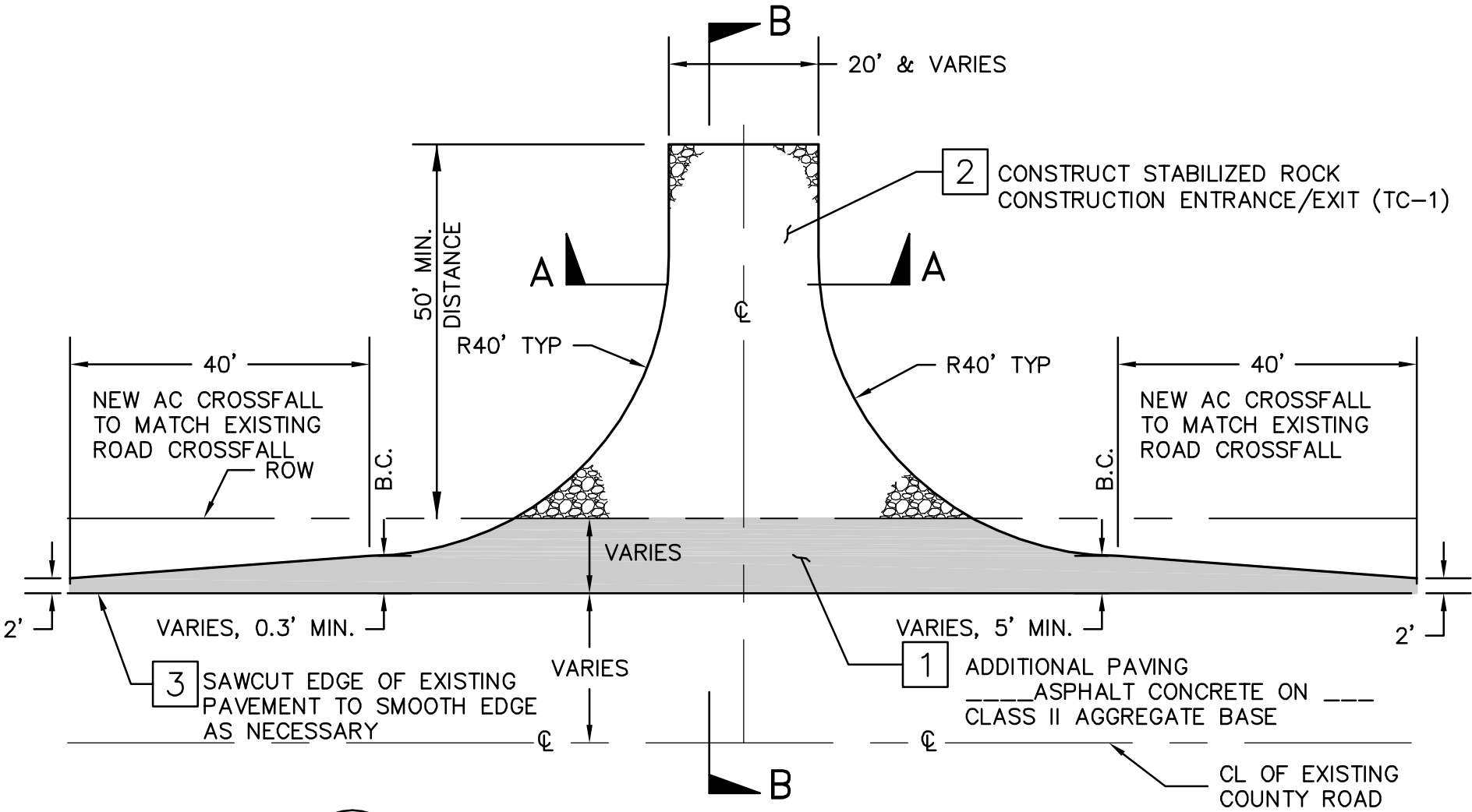
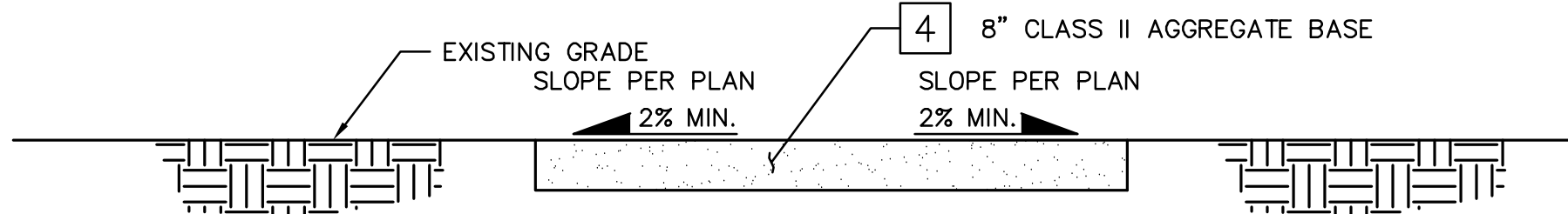
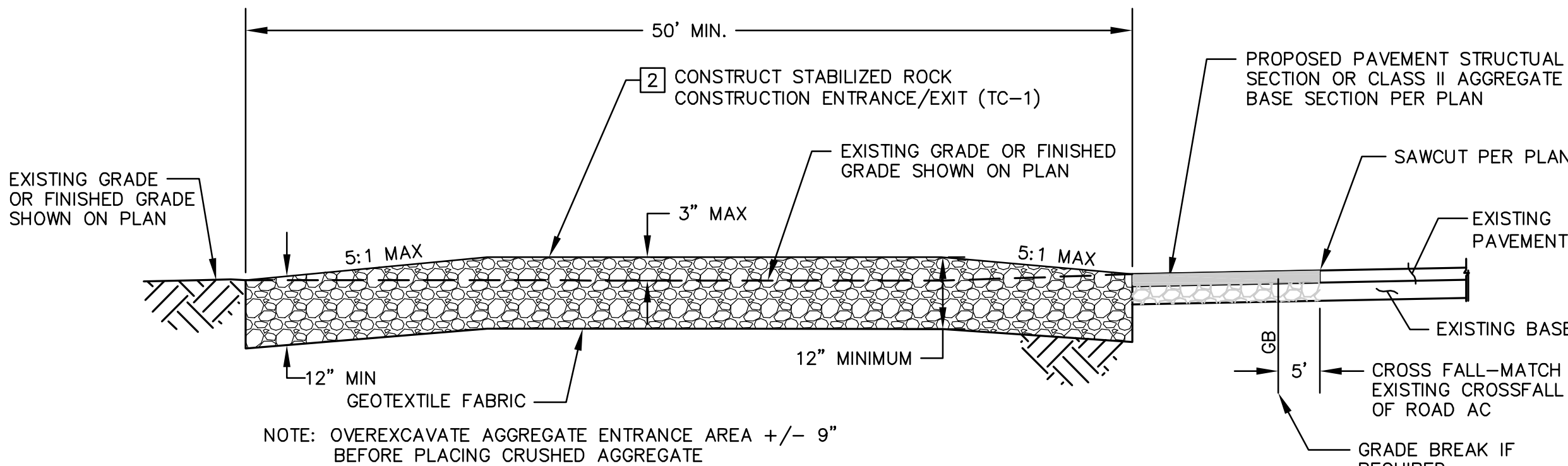
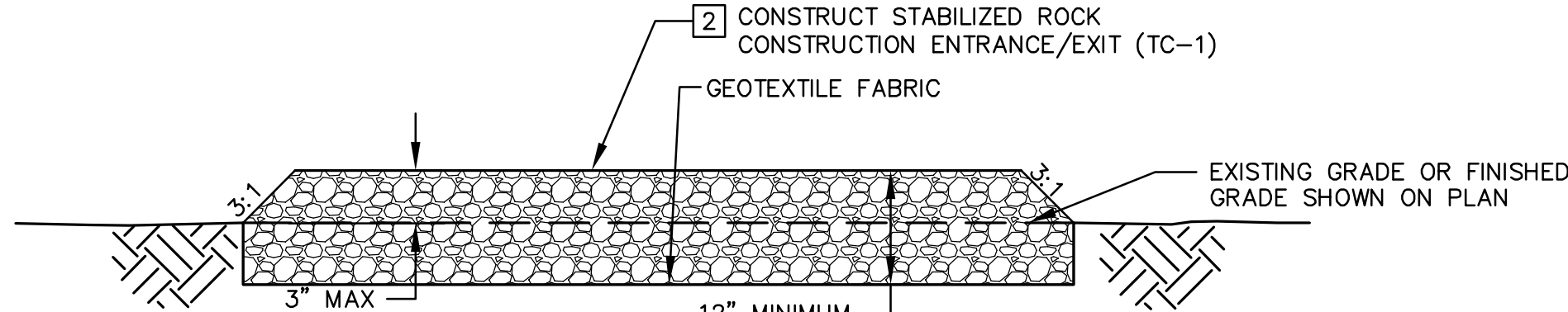
 Bureau Veritas North America 11590 West Bernardo Court Suite 100 San Diego, CA 92127-1624 Tel: (658) 451-6100 Fax: (658) 451-2846 www.us.bureauveritas.com	LEGAL DESCRIPTION	LEGAL DESCRIPTION	ENGINEER OF WORK	PERMITS				BENCH MARK	PRIVATE CONTRACT		
	ASSESSORS PARCEL NO. _____	ASSESSORS PARCEL NO. _____		REZONE PERMIT NO. _____				NAME: GPS_32	SHEET 1 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 4 SHEETS		
	RECORD PLAN	RECORD PLAN		SPECIAL USE PERMIT NO. _____				LOCATION: N 1959223.231 E 6351466.260	IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK PRIVATE ROADWAY / DRIVEWAY PLANS SECTION 4A IMPROVEMENTS TITLE SHEET		
	NAME: _____	NAME: _____		GRADING PERMIT NO. _____				DESCRIPTION: SURVEY DISK			
R.C.E. _____	R.C.E. _____	NAME: _____	COUNTY APPROVED CHANGES				ELEVATION: 1373.160' DATUM: NAVD_88	ENGINEER OF WORK STEPHEN K. SMITH R.C.E. 29708 CHECKED BY: APPROVAL DATE: IMPROVEMENT PLAN NO.			
DATE: _____	DATE: _____	PHONE NO. (658)451-6100	NO.	DESCRIPTION	APPROVED BY	DATE	NAME: _____	SPL-4A (LINK 5) 04A-DWY-01			
ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA 92127							LOCATION: N 1896129.627 E 6253306.866				
							DESCRIPTION: NGS MONUMENT				
							ELEVATION: 30.522' DATUM: NAVD_88				

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 W13-1P (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 CULVERT. (SIZE TO MATCH EXISTING)
- 11
- CONSTRUCT COLLAR

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: _____

ENGINEER OF WORK	PERMITS
NAME: _____	REZONE PERMIT NO. _____
PHONE NO. (658)451-6100	SPECIAL USE PERMIT NO. _____
ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA 92127	GRADING PERMIT NO. _____

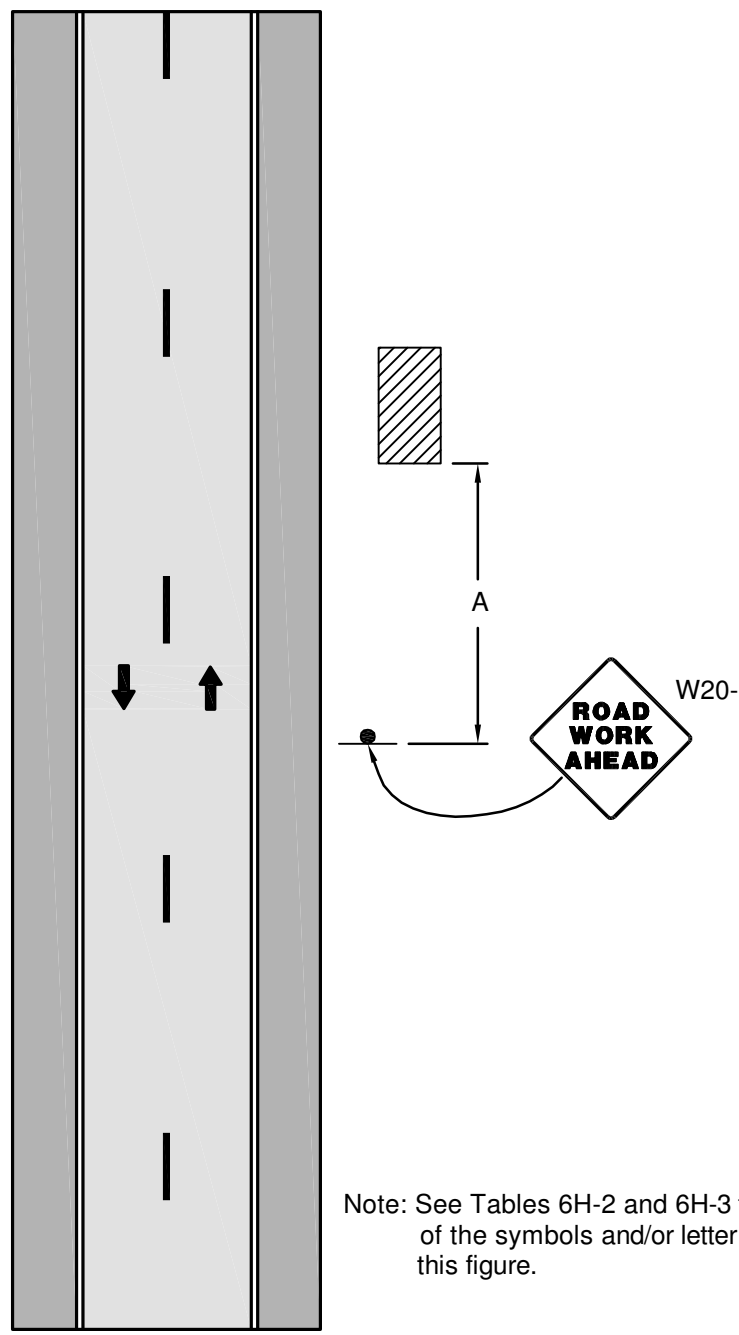
COUNTY APPROVED CHANGES
NO. _____
DESCRIPTION _____
APPROVED BY _____
DATE _____

BENCH MARK
NAME: GPS 32
LOCATION: N 1959223.231 E 6351466.260
DESCRIPTION: SURVEY DISK
ELEVATION: 1373.160' DATUM: NAVD 88
NAME: 941T
LOCATION: N 1896129.627 E 6253306.866
DESCRIPTION: NGS MONUMENT
ELEVATION: 30.522' 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
ENGINEER OF WORK: STEPHEN K. SMITH R.C.E. 28708
CHECKED BY: _____ APPROVAL DATE: _____
IMPROVEMENT PLAN NO. _____
SPL-4A (LINK 5)
04A-DWY-02

p:\16919 sdg&e sp\agency permit list\exhibits\cadd\4a\plan\3--4a to details.dwg 7/1/2010 9:49 AM

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:

2. 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.
3. 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.
4. 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.
5. 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
	Luminaire		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

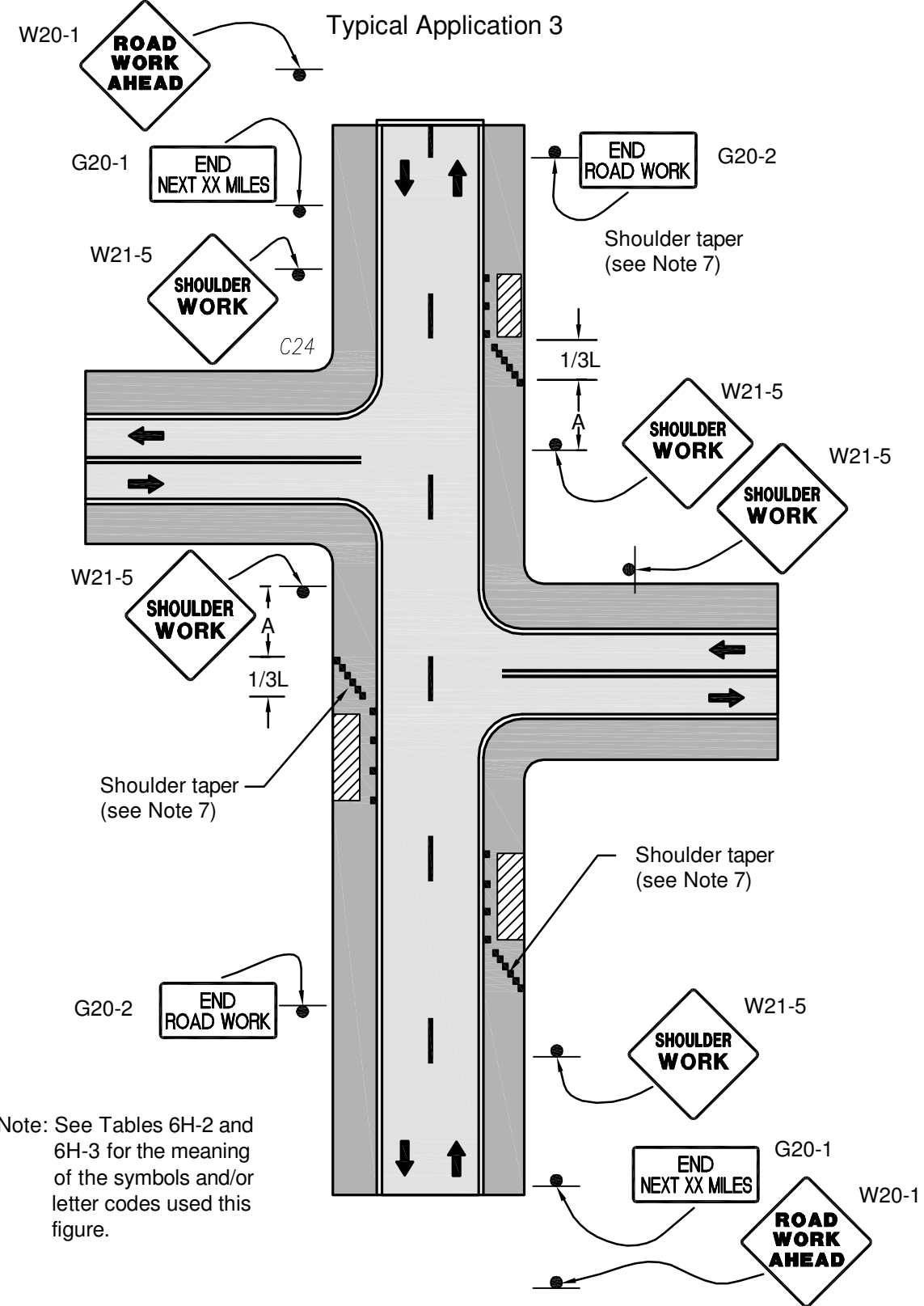
** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "test sign" is the sign in a three-sign series that is closest to the TTC zone. The "third 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	$L = \frac{WS^2}{60}$
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)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used this figure.

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.

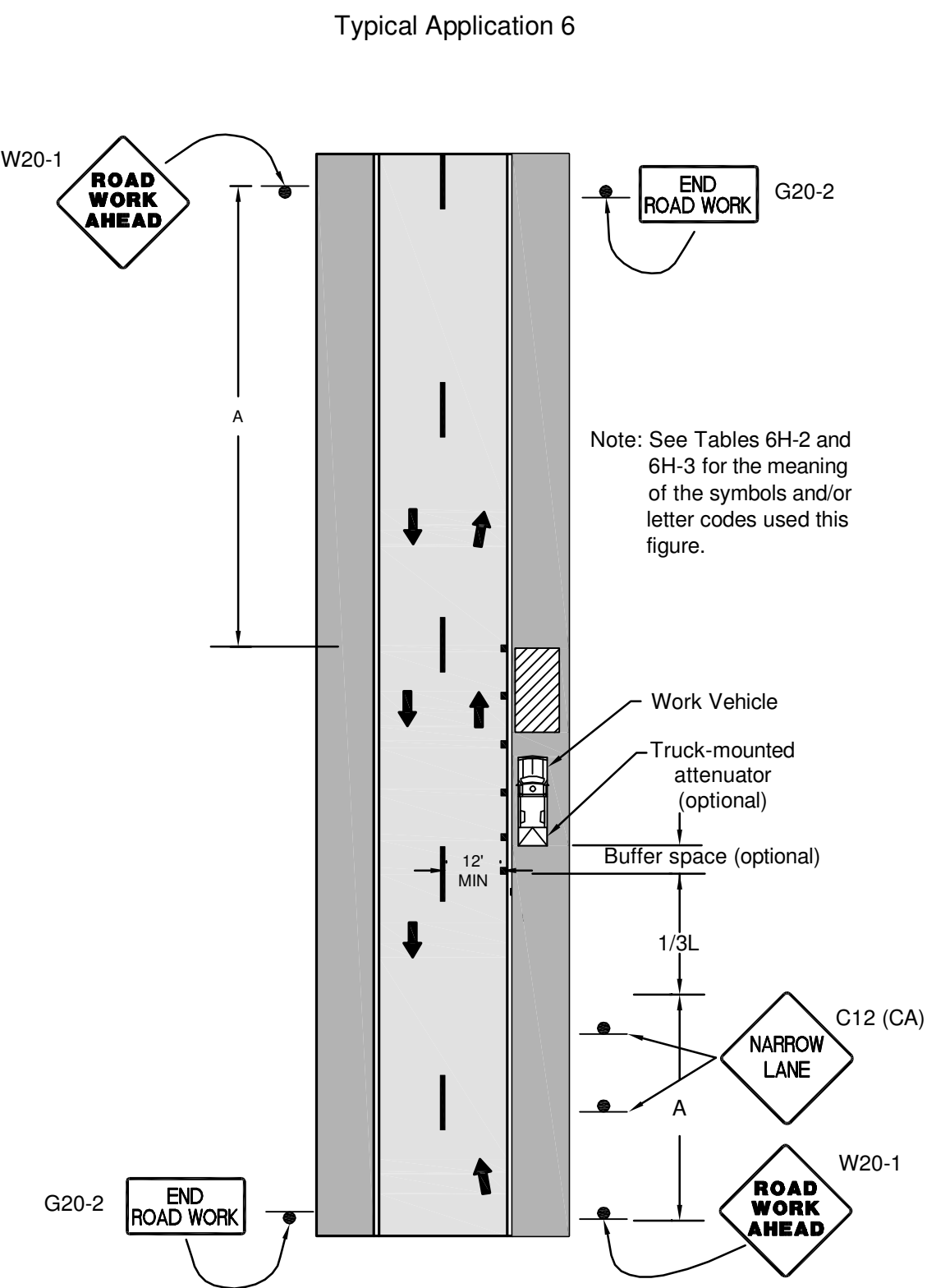
Option:

2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
3. 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.
4. 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.
5. 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)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used this figure.

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 near 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.

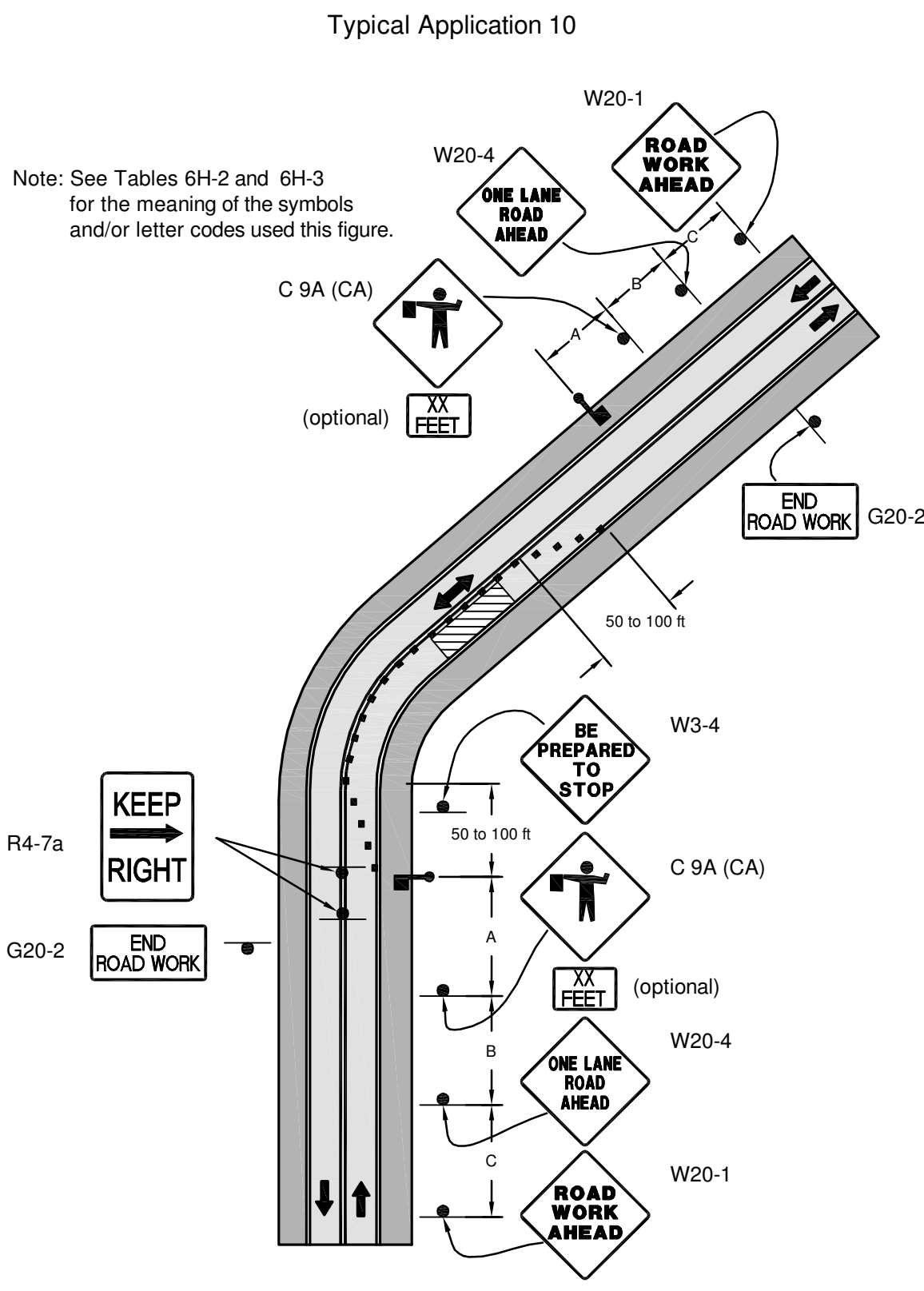
Option:

3. 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.
4. 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.
5. Additional advance warning may be appropriate, such as a ROAD NARROWS sign.
6. Temporary traffic barriers may be used along the work space.
7. The shadow vehicle may be omitted if a taper and channelizing devices are used.
8. A truck-mounted attenuator may be used on the shadow vehicle.
9. 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.
10. 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)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used this figure.

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.

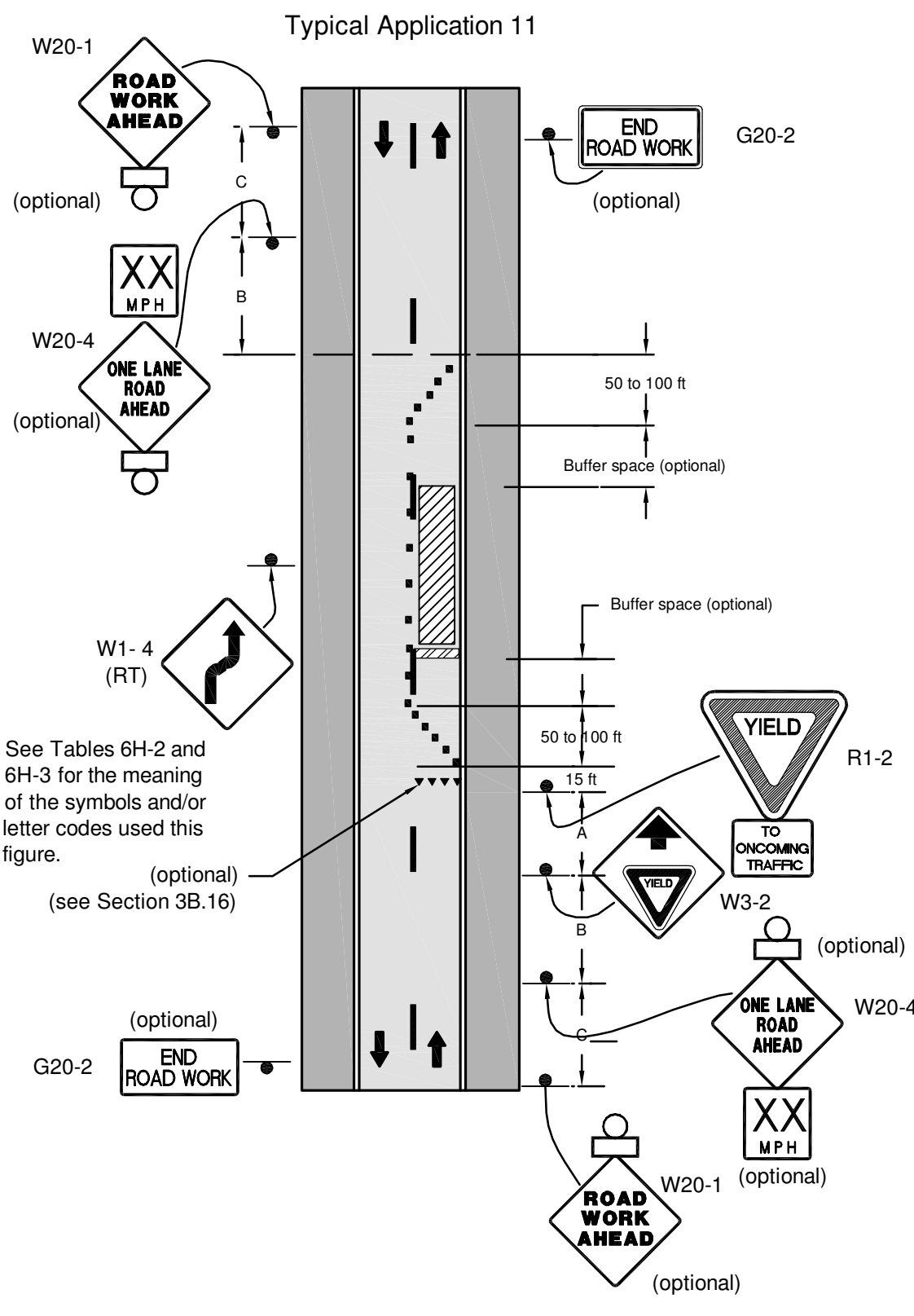
Guidance:

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)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used this figure. (see Section 3B.16)

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 worksite 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 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

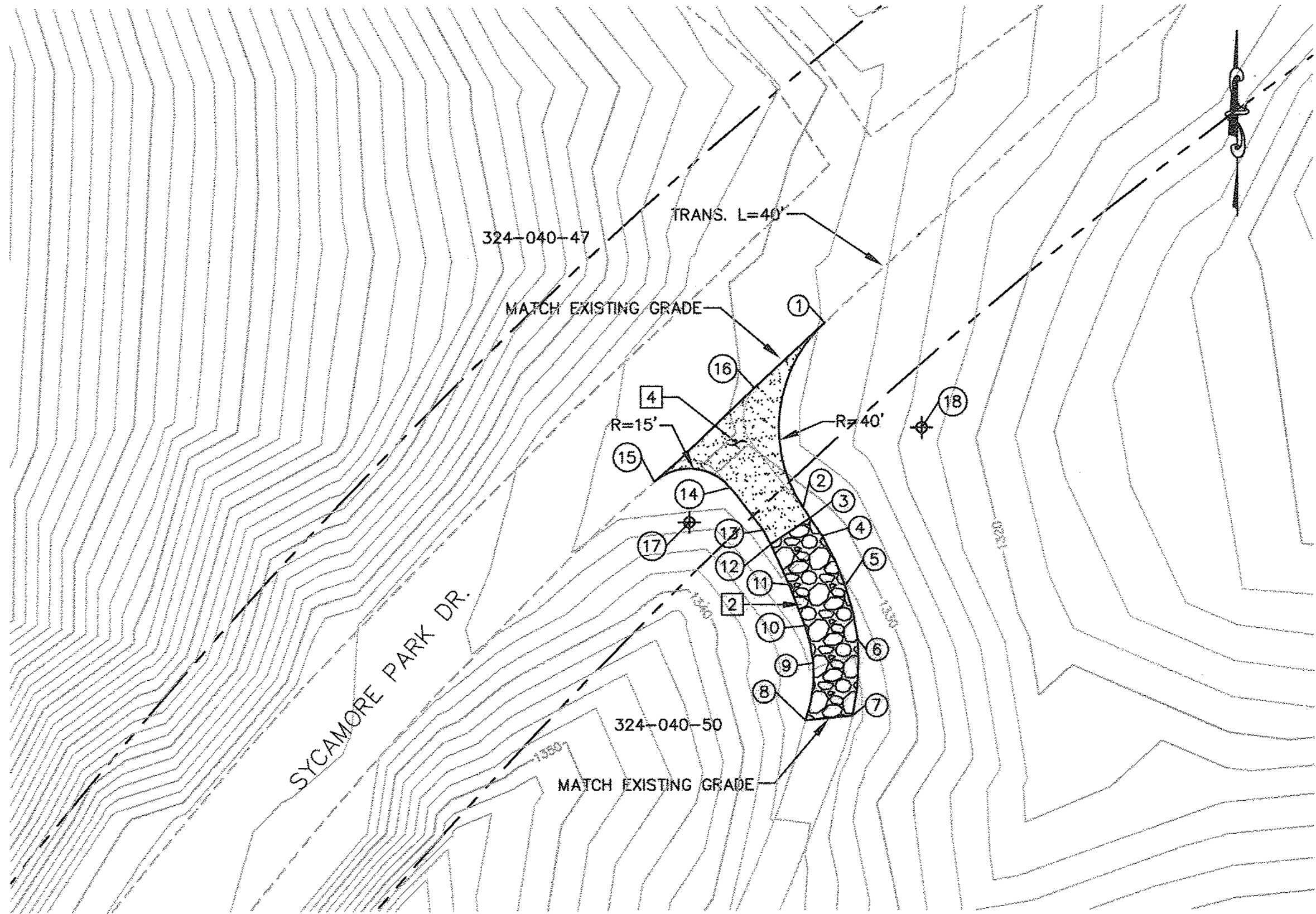
LEGAL DESCRIPTION	LEGAL DESCRIPTION
ASSESSORS' PARCEL NO. _____	ASSESSORS' PARCEL NO. _____
RECORD PLAN	RECORD PLAN
NAME: _____	NAME: _____
R.C.E. _____	R.C.E. _____
DATE: _____	DATE: _____

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: GPS_32	
LOCATION: N 1959223.231 E 6351466.260	
DESCRIPTION: SURVEY DISK	
ELEVATION: 1373.160' DATUM: NAVD_88	
PRIVATE CONTRACT	
NAME: 941T	
LOCATION: N 1896129.627 E 6253306.866	
DESCRIPTION: NGS MONUMENT	
ELEVATION: 30.522' 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.C.E. 29706	CHECKED BY: _____ APPROVAL DATE: _____ IMPROVEMENT PLAN NO. _____
SPL-4A (LINK 5)	04A-DWY-03



QUANTITIES:

2 STABILIZED ROCK: 693 SF

4 AGGREGATE BASE: 898 SF

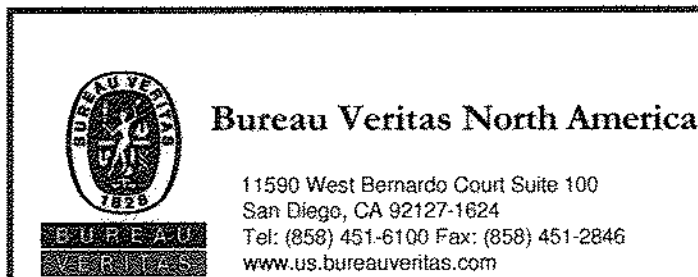
ACCESS ROAD TO P29-1 THROUGH P31-2 (PERMIT 4A-1)

SCALE: 1"=30'

- 2 CONSTRUCT STABILIZED CONSTRUCTION APPROACH AT CONSTRUCTION ENTRANCE PER DETAILS ON SHEET 2.
- 4 CONSTRUCT 8" CLASS II AGGREGATE BASE ROAD ENTRANCE, DETAILS ON SHEET 2.

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1924298.67	6342148.54		BC
2	1924247.07	6342142.42		EC
3	1924244.12	6342144.39		EG
4	1924239.07	6342147.76		EG
5	1924225.18	6342154.20		EG
6	1924210.26	6342157.68		EG
7	1924189.03	6342156.21		EG
8	1924187.69	6342142.97		EG
9	1924203.72	6342145.20		EG
10	1924214.09	6342142.86		EG
11	1924225.57	6342138.48		EG
12	1924236.75	6342133.36		EG
13	1924240.77	6342131.30		EG
14	1924252.71	6342122.00		BC
15	1924254.35	6342100.75		EC
16	1924280.45	6342128.81		EG
17	1924243.01	6342110.56		RP
18	1924269.28	6342175.68		RP

IFC SHEET REVISIONS				
REVISION NUMBER	DESCRIPTION	DATE	DRAFTED BY	APPROVED BY
01	MEET & CONFER/INSPECTION NOTES, TITLE BLOCK	8/18/2010	JB	MB



LEGAL DESCRIPTION	LEGAL DESCRIPTION
ASSESSORS PARCEL NO. 324-040-50	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. SUITE 100 SAN DIEGO, CA 92127		GRADING PERMIT NO. _____	
COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK		PRIVATE CONTRACT	
NAME: GPS 32		SHEET 4	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 4 SHEETS
LOCATION: N 1959223.231 E 6351466.260		IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK	
DESCRIPTION: SURVEY DISK		ACCESS ROAD IMPROVEMENTS ON SYCAMORE PARK ROAD	
ELEVATION: 1373.160' DATUM: NAVD 88		PERMIT 4A-1	
NAME: 941T		ENGINEER OF WORK: STEPHEN K. SMITH R.E.C. 22708	CHECKED BY: _____ APPROVAL DATE: _____
LOCATION: N 1896129.627 E 6253306.866		SPL-4A (LINK 5) 04A-DWY-04	
DESCRIPTION: NGS MONUMENT			
ELEVATION: 30.522' DATUM: NAVD 88			
NAME: _____			
LOCATION: _____			
DESCRIPTION: _____			
ELEVATION: _____ DATUM: _____			

01 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.

01 WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS FOR THE SDG&E SUNRISE POWERLINK DRIVEWAY IMPROVEMENTS (ACCESS FROM SYCAMORE PARK DR.) ON APN 324-040-50, 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.

Kenneth G. Brazell 7-02-10
FOR DIRECTOR OF PUBLIC WORKS DATE