CITY OF POWAY

PLANS FOR THE CONSTRUCTION OF

ESPOLA ROAD SAFETY IMPROVEMENTS

GENERAL NOTES

1. ALL WORK TO CONFORM TO THE RECENTLY ADOPTED EDITION "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 2012 EDITION WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS), THE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS, AND THE CITY OF POWAY AMENDMENTS TO EACH.
2. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 AM AND 4:30 PM MONDAY THROUGH THURSDAY AND 7:30 AM AND 4:00 PM ON ALTERNATING FRIDAYS, EXCLUDING HOLIDAYS. THERE SHALL BE NO WORK ON THE ALTERNATING FRIDAY ON WHICH CITY HALL IS CLOSED. LANE CLOSURES WILL ONLY BE ALLOWED PER THE APPROVED TRAFFIC CONTROL PLAN. NO GRADING AND EARTHMOVING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON CLOSED FRIDAYS, SATURDAYS, SUNDAYS, OR CITY OF POWAY HOLIDAYS WITHOUT PRIOR APPROVAL BY THE CITY ENGINEER, EXCEPT FOR EMERGENCIES INVOLVING IMMEDIATE HAZARD TO PERSONS OR PROPERTY. IN THE EVENT OF EITHER A REQUESTED OR EMERGENCY DEVIATION, INSPECTION SERVICE FEES WILL BE CHARGED AGAINST THE CONTRACTOR. THE SERVICE FEES WILL BE CALCULATED AT OVERTIME RATES INCLUDING BENEFITS, OVERHEAD, AND TRAVEL TIME. THE SERVICE FEES WILL BE DEDUCTED FROM ANY AMOUNTS DUE THE CONTRACTOR.
3. THE CONTRACTOR SHALL NOTIFY THE CITY OF POWAY DEVELOPMENT SERVICES DEPARTMENT 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION SERVICES MAY BE PROVIDED. INSPECTION REQUESTS CAN BE MADE BY CALLING (858) 668-4668.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING IMPROVEMENTS AND THE CITY WILL ENFORCE SECTION 7-9 OF THE STANDARD SPECIFICATIONS.
5. ALL EXISTING IMPROVEMENTS INCLUDING A.C. BERM, A.C. OR P.C.C. PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE CITY ENGINEER, INCLUDING NECESSARY SAWCUTTING, REMOVAL, REPLACEMENT AND CAPPING.
6. ALL WORK SHALL BE ACCOMPLISHED IN CONFORMANCE WITH APPLICABLE CITY OF POWAY ORDINANCES.
7. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT BEFORE START OF CONSTRUCTION 1 (800) 422-4133.
8. THE CONTRACTOR IS RESPONSIBLE FOR POTHOLING ALL UTILITIES PER SECTION 5-1 OF THE STANDARD SPECIFICATIONS, PRIOR TO START OF CONSTRUCTION TO VERIFY ALL ELEVATIONS OF UNDERGROUND UTILITIES.
9. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A CONSTRUCTION WATER METER FROM THE CITY OF POWAY AND SHALL ALSO BE REQUIRED TO PAY FOR ALL WATER USED.
10. THE CONTRACTOR SHALL GIVE THE CITY INSPECTOR 48 HOUR ADVANCE NOTICE WHEN SOIL/MATERIAL TESTING IS NEEDED.

EXISTING UTILITIES

INFORMATION ON THE DRAWINGS RELATING TO EXISTING UTILITY LINES AND SERVICES IS FROM THE BEST SOURCES PRESENTLY AVAILABLE. ALL SUCH INFORMATION IS FURNISHED ONLY FOR INFORMATION AND IS NOT GUARANTEED. THE CONTRACTOR SHALL EXCAVATE TEST PITS AS REQUIRED TO DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES.

THE CONTRACTOR IS ADVISED OF THE EXISTENCE OF THE UTILITY NOTIFICATION SERVICE PROVIDED BY UNDERGROUND SERVICE ALERT (USA). USA MEMBER UTILITIES WILL PROVIDE THE CONTRACTOR WITH THE PRECISE LOCATIONS OF THEIR SUBSTRUCTURES IN THE CONSTRUCTION AREA WHEN THE CONTRACTOR GIVES AT LEAST 48 HOURS NOTICE TO UNDERGROUND SERVICE ALERT BY CALLING 1 (800) 422-4133.

THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS, RELOCATIONS, AND REMOVALS WITH THE UTILITY COMPANIES.

LOW IMPACT DESIGN REQUIREMENTS

I CERTIFY THAT THESE PLANS HAVE ADDRESSED AND/OR IMPLEMENTED LOW IMPACT DESIGN IN ACCORDANCE WITH THE CITY OF POWAY MUNICIPAL CODE SECTION 13.09.150.

ENGINEER:

TIMOTHY M THIELE RCE 60283 DATE

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 THE CITY OF POWAY IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

TIMOTHY M THIELE RCE 60283 DATE

LEGEND

DESCRIPTION	SYMBOL
EXISTING CONTOUR	700
EXISTING WATER LINE	W W
EXISTING SEWER LINE	OHL OHL
EXISTING STORM DRAIN LINE	SD
EXISTING GAS LINE	G G
EXISTING OVERHEAD LINE	OHL OHL
EXISTING ELECTRICAL OVERHEAD LINE	EOHL
EXISTING ELECTRICAL	E E
EXISTING CABLE TV	CATV
EXISTING FIRE HYDRANT	
EXISTING WATER VALVE	
EXISTING WATER METER	
EXISTING POWER POLE	
EXISTING STREET SIGN	
EXISTING STREET LIGHT	
EXISTING TRAFFIC SIGNAL	
EXISTING GUARDRAIL	
EXISTING PROPERTY LINE	PL
EXISTING RIGHT-OF-WAY	R/W
PROPOSED DG PATH	
PROPOSED GRADED SHOULDER	
PROPOSED CONCRETE IMPROVEMENTS	
PROPOSED LODGEPOLE FENCE	X X
PROPOSED CURB AND GUTTER	
PROPOSED RETAINING WALL	
PROPOSED RIGHT-OF-WAY	PR R/W
PROPOSED DAYLIGHT LINE	

ABBREVIATIONS

AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
CMLC	CEMENT MORTAR LINED AND COATED
CONC	CONCRETE
DG	DECOMPOSED GRANITE
EX	EXISTING
FH	FIRE HYDRANT
FL	FLANGE
GV	GATE VALVE
HP	HIGH PRESSURE
LF	LINEAR FEET
MIN	MINIMUM
PB	PULL BOX
PCC	PORTLAND CEMENT CONCRETE
PW	POWAY
R/W	RIGHT OF WAY
SDG&E	SAN DIEGO GAS AND ELECTRIC
SDRSD	SAN DIEGO REGIONAL STANDARD DRAWINGS
SNS	STREET NAME SIGN
TB	THRUST BLOCK
TP	TOP OF PIPE
WM	WATER METER

BASIS OF BEARINGS

THE BASIS OF BEARING FOR THIS SURVEY IS THE LINE BETWEEN CONTROL STATIONS 112 & 109 PER AERIAL SURVEY BASE MAP PROVIDED BY THE CITY OF POWAY. BEARING 112-109: N 0°49'05" W

STATION	NORTHING (ft.)	EASTING (ft.)
112	1936215.45	6324536.00
109	1943275.47	6324435.19

REFERENCE DRAWINGS

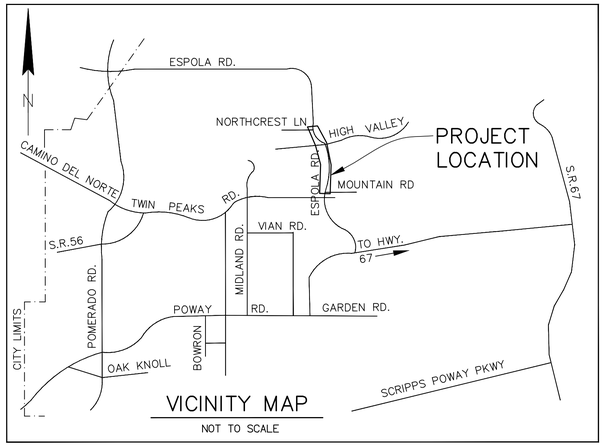
ESPOLA ROAD PIPELINE	DWG 801-05-1084
HUNTINGTON COURT	GR1299-00

STANDARD DRAWINGS

SDRSD G-2	SDRSD G-32A
SDRSD G-7	SDRSD G-32B
SDRSD G-14A	SDRSD M-24
SDRSD G-14B	STD RSP A77L1
SDRSD G-28	CITY TRAIL STD EXH J
SDRSD G-30	

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	DETAIL SHEET
SHEET NO. 3	DETAIL SHEET
SHEET NO. 4	PLAN AND PROFILE
SHEET NO. 5	PLAN AND PROFILE
SHEET NO. 6	PLAN AND PROFILE
SHEET NO. 7	PLAN AND PROFILE
SHEET NO. 8	PLAN AND PROFILE
SHEET NO. 9	PLAN AND PROFILE
SHEET NO. 10	PLAN AND PROFILE
SHEET NO. 11	PLAN AND PROFILE
SHEET NO. 12	PLAN AND PROFILE



VICINITY MAP

NOT TO SCALE

EROSION CONTROL NOTES

1. EROSION CONTROL DEVICES SHALL BE INSTALLED AS SHOWN ON THE APPROVED EROSION CONTROL PLAN.
2. FAILURE TO HAVE EROSION CONTROL MEASURES INSTALLED AT THE REQUIRED TIMES WILL RESULT IN A STOP WORK ORDER AND MAY RESULT IN THE CITY INSTALLING APPROPRIATE EROSION CONTROL. PAYMENT FOR ANY SUCH WORK WILL BE CHARGED TO THE CONTRACTOR.
3. ALL MATERIALS FOR EROSION CONTROL INSTALLATION SHALL BE ON THE JOB SITE AT ALL TIMES. EROSION CONTROL MEASURES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHENEVER THERE IS A 50% OR GREATER CHANCE OF RAIN WITHIN 48 HOURS. EROSION PROTECTION SHALL INCLUDE EFFECTIVE PLANTING OR COVERAGE OF ALL DISTURBED AREAS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
4. EROSION PROTECTION SHALL INCLUDE EFFECTIVE PLANTING OF ALL SLOPES UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. PLANTING OF THE SLOPES SHALL BE DONE AS SOON AS PRACTICABLE, AND PRIOR TO ROUGH GRADE APPROVAL. IF THIS IS NOT ACCOMPLISHED, THE SLOPE SHALL BE TREATED WITH PUNCHED BROADCAST ON THE SOIL SURFACE AT FOUR THOUSAND POUNDS PER ACRE AND HELD WITH A TACKIFIER, FIBER OR NET, OR AN EQUAL SYSTEM APPROVED BY THE CITY ENGINEER OR CITY LANDSCAPE ARCHITECT. PLANTING SHALL BE INSTALLED, FULLY GERMINATED, AND EFFECTIVELY COVER THE REQUIRED SLOPES PRIOR TO FINISHED GRADE APPROVAL.
5. EARTH BERMS OR LINED BROWS SHALL BE USED TO PREVENT RUNOFF DRAINAGE FROM FLOWING OVER THE TOP OF SLOPES. A SIX-INCH-HIGH BY TWELVE-INCH-WIDE BERM (COMPACTED TO 90%) SHALL BE CONSTRUCTED ALONG THE TOPS OF SLOPES.
6. ALL RIP RAP ENERGY DISSIPATORS SHALL BE PER D-40 (TYPE I WITH CONCRETE SILL, OR TYPE II WITHOUT CONCRETE SILL). ROCK SHALL BE PER SECTION 200-1.6 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
7. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS THE WORK PROGRESSES, WITH APPROVAL FROM THE CITY ENGINEER.
8. ALL LOOSE SOIL AND DEBRIS GENERATED AS A RESULT OF ANY WORK ON THE PROJECT SITE SHALL BE REMOVED FROM THE STREET AREAS DAILY.
9. VELOCITY CHECK DAMS SHALL BE INSTALLED ACROSS THE OUTLETS OF ALL LOTS DRAINING INTO THE STREET, ALL UNPAVED GRADED CHANNELS, AND ALL UNPAVED STREET AREAS.
10. STAND-BY CREWS SHALL BE ALERTED BY THE CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORMS.
11. WATER, SEWER, STORM DRAIN, AND UTILITY TRENCHES SHALL BE PROTECTED TO PREVENT SILTATION, WHICH MAY CAUSE DAMAGE OR BECOME A NUISANCE ON PUBLIC RIGHT-OF-WAY, PUBLIC DRAINAGE COURSES, OR DOWNSTREAM PRIVATE PROPERTIES.
12. GRAVEL BAG SILT BASINS OR TRAPS SHALL BE INSTALLED AT EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM, IN THE EVENT SILT DOES ENTER THE EXISTING STORM DRAIN SYSTEM, REMOVAL OF THE SILT FROM THE SYSTEM WILL BE AT THE CONTRACTOR'S EXPENSE.
13. ANY PROPOSED CHANGES AND ALTERNATE EROSION CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY THE CITY ENGINEER.
14. EROSION CONTROL DEVICES ARE TO BE MAINTAINED AND REPAIRED DAILY.
15. SILTATION RETENTION DEVICES ARE TO BE CLEANED OF SILT AFTER EACH RAIN EVENT AND/OR WHEN RETAINED SILT HEIGHT IS 75% OF TOTAL AVAILABLE CAPACITY OF THE RETENTION DEVICE.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINES ASSESSED BY ANY OUTSIDE AGENCIES.

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY M. THIELE — No. C60283 — CIVIL — STATE OF CALIFORNIA

Michael Baker INTERNATIONAL

5050 Avenida Encinas, Ste 260
Carlsbad, CA 92008
Phone: (760) 476-9193
WWW.MBAKERINTL.COM

REFERENCES

CITY APPROVED CHANGES			
No.	Description	Approved By	Date

BENCH MARK

DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB

LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY

RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

CIP NUMBER: 12010

Sheet 1	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
TITLE SHEET
California Coordinate Index: 294-1761, 298-1761

APPROVED BY:	DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975	

ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

RECORD DRAWING NUMBER

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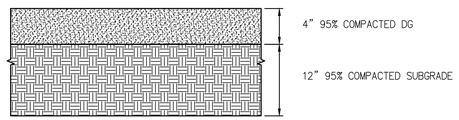
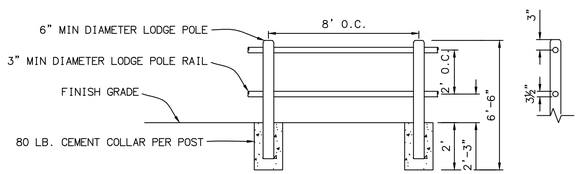
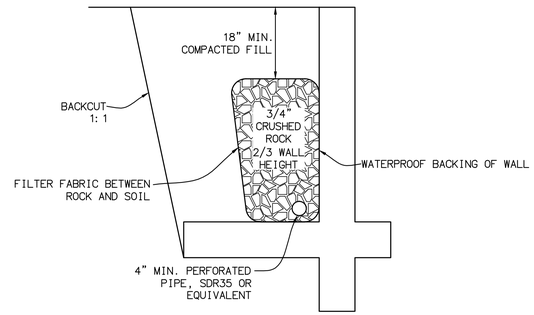


1 DG TRAIL SECTION
NOT TO SCALE



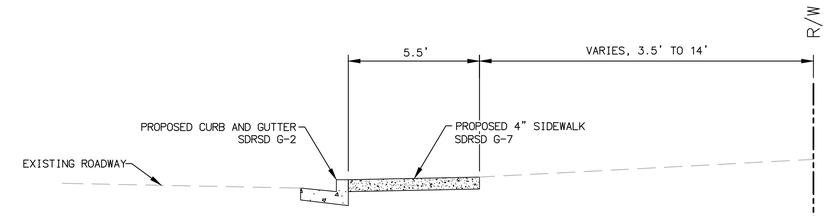
NOTE:
1. POSTS AND RAIL SHALL BE 6 INCH MINIMUM DIAMETER PENTA TREATED LODGEPOLE PINE IN GOOD CONDITION.
2. ALL RAILS TO BE SECURED BY 20P GALV. NAILS

3 LODGEPOLE FENCING (CITY STD. EXH. J)
NOT TO SCALE

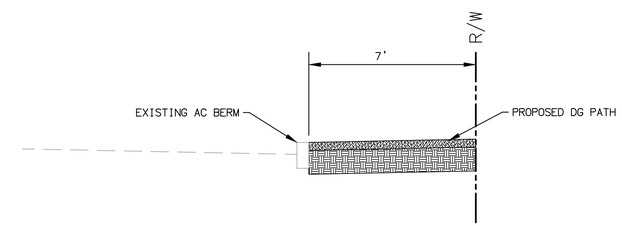


2 TYPICAL RETAINING WALL BACKDRAIN
NOT TO SCALE

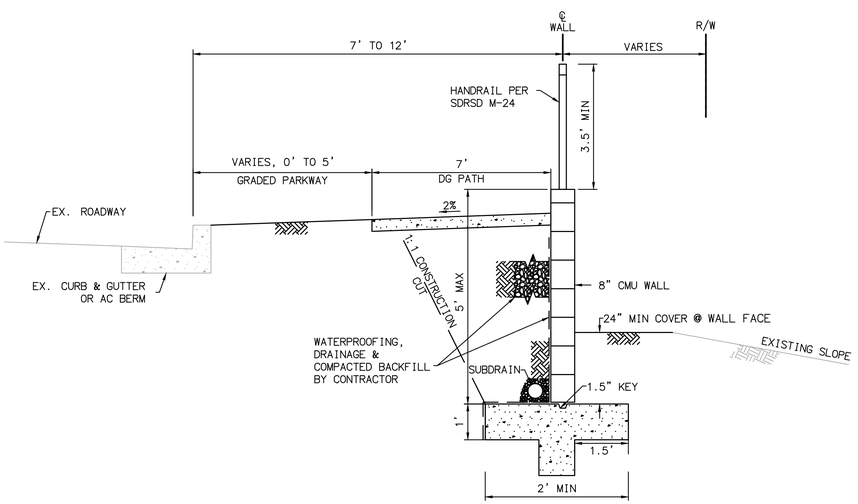
NOTES:
1. PERFORATED PIPE TO BE ROTATED TO BE HOLES DOWN, WITH 1% FALL TO OUTLET.
2. PERFORATED PIPE SHALL BE ENCASED IN 3/4" CRUSHED ROCK. PROVIDE 3 CUBIC FEET PER LINEAR FOOT CRUSHED ROCK MINIMUM. CRUSHED ROCK TO BE SURROUNDED BY FILTER FABRIC (MIRAFI 140N OR EQUIVALENT), WITH 6" MINIMUM OVERLAP.
3. PROVIDE SOLID OUTLET PIPE AT SUITABLE LOCATION



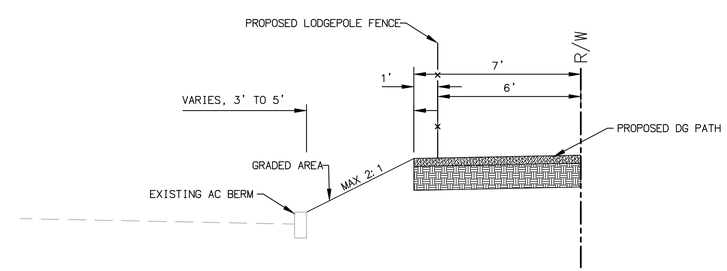
TYPICAL SIDEWALK SECTION
SCALE 1" = 3'
STA. 133+39 TO STA. 134+26



TYPICAL DG PATH SECTION
SCALE 1" = 3'
STA. 134+26 TO STA. 140+63



4 5' MAX RETAINING WALL
NOT TO SCALE



TYPICAL DG PATH SECTION
SCALE 1" = 3'
STA. 140+63 TO STA. 176+79

CIP NUMBER: 12010

Sheet 2	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
DETAIL SHEET
California Coordinate Index: 294-1761, 298-1761

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

APPROVED BY:	DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975	
ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

REGISTERED PROFESSIONAL ENGINEER TIMOTHY M. THIELE No. C60283 CIVIL STATE OF CALIFORNIA

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RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

RECORD DRAWING NUMBER _____

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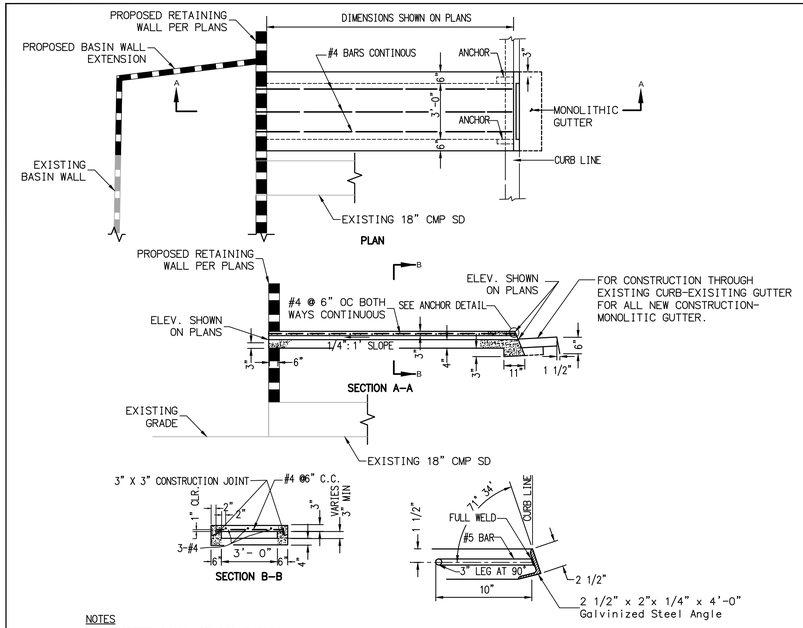
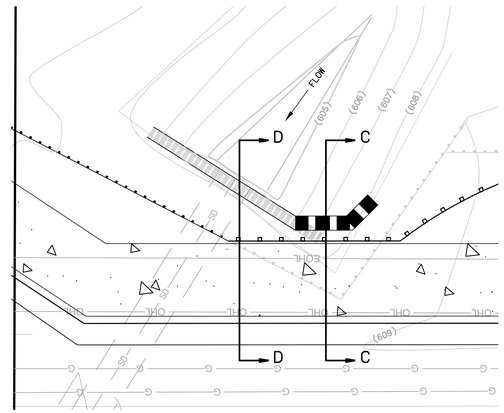
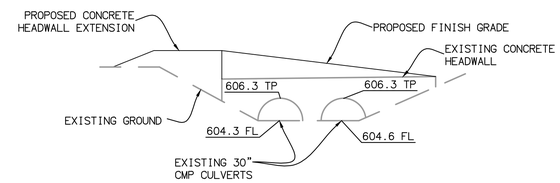


NOTES
1. CONCRETE SHALL BE 560-C-3250
2. D=DEPTH OF CHANNEL.
3. SECTION TO BE SLOPED LATERALLY WITH TOP CONFORMING TO THE GRADES OF THE EXISTING SIDEWALK AND CURB.
4. TROWEL FINISH TOP SURFACE.
5. TROWEL FINISH FLOOR OF OUTLET.

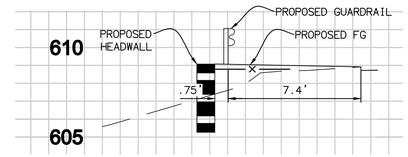
1 SLOT DRAIN
NOT TO SCALE



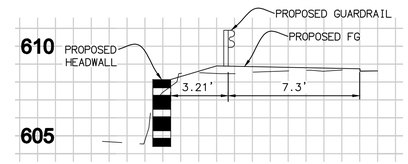
2 HEADWALL EXTENSION
SCALE: 1"=5'



HEADWALL EXTENSION
SCALE: 1"=4'



SECTION C-C
SCALE: 1"=4'



SECTION D-D
SCALE: 1"=4'

CIP NUMBER: 12010

Sheet 3	CITY OF POWAY Department of Development Services	12 Sheets

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CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
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ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

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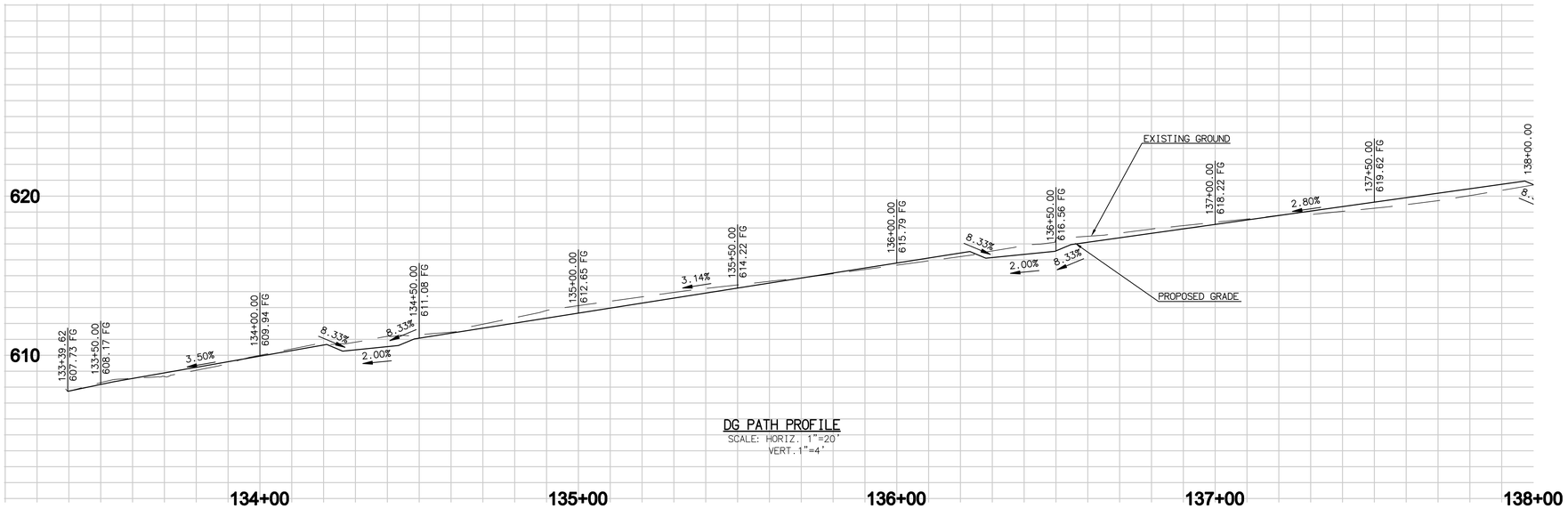
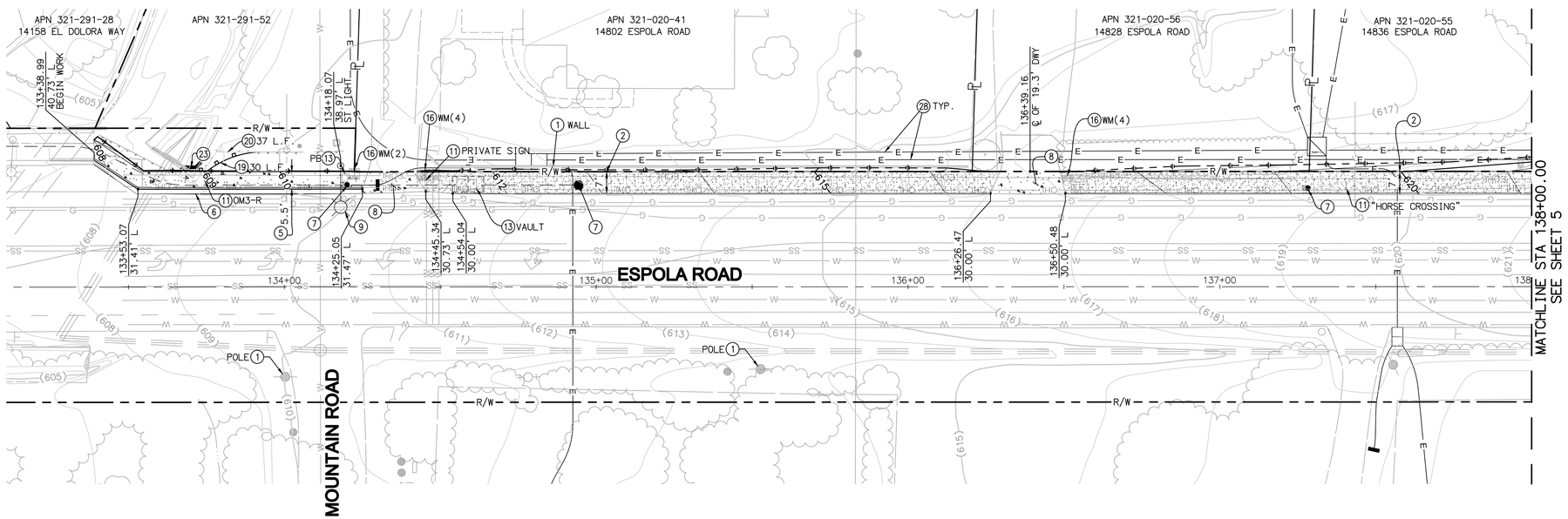


DG PATH PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=4'



CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. CONSTRUCT 7'-WIDE DG PATH PER DETAIL 1 SHEET 2.
5. CONSTRUCT CONCRETE SIDEWALK PER SDRSD G-7.
6. CONSTRUCT 6" CURB AND GUTTER PER SDRSD G-2.
7. REMOVE EXISTING POWER POLE PER SDG&E <JN XXXX>.
8. REPLACE EXISTING PRIVATE DRIVEWAY WITH ADA COMPLIANT TRAIL TO DRIVEWAY TRANSITION PER SDRSD G-14A & G-14B.
9. INSTALL STREET LIGHT PER CITY STREET LIGHT STANDARDS.
11. REMOVE AND RELOCATE EXISTING SIGN.
13. ADJUST TO FINISH GRADE.
16. REMOVE AND RELOCATE EXISTING UTILITY BOX.
19. CONSTRUCT PROPOSED GUARDRAIL PER CALTRANS STD RSP A77L1.
20. REMOVE EXISTING GUARDRAIL.
23. ADJUST HEIGHT OF EXISTING HEADWALL STRUCTURE TO MATCH FINISH GRADE PER DETAIL 2 ON SHEET 3.
28. UNDERGROUND ELECTRICAL TO BE DONE BY OTHERS.

SCALE: 1"=20'

20 10 0 20 40 60
SCALE: 1"=20'

CIP NUMBER: 12010

Sheet 4	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
BEGINNING TO STA 138+00.00 PLAN AND PROFILE
California Coordinate Index: 294-1761, 298-1761

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
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BENCH MARK

DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB

LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY

RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

RECORD DRAWING NUMBER_____

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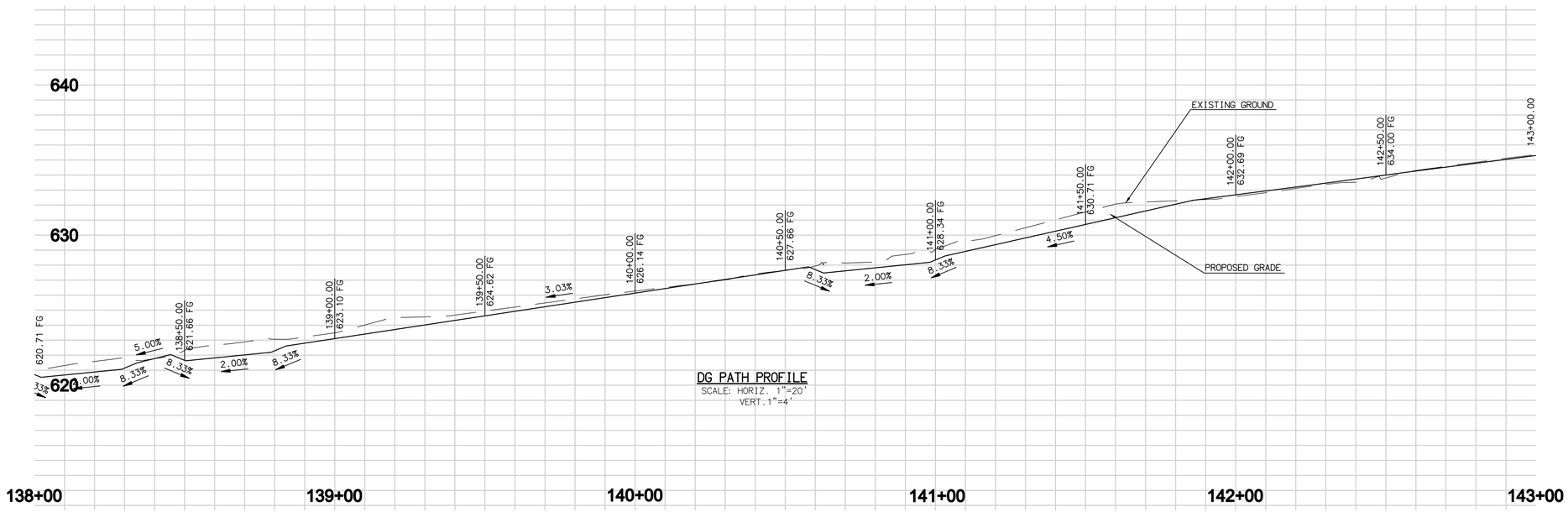
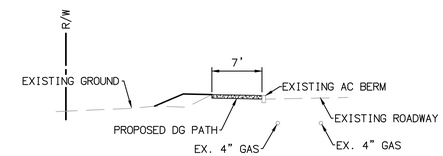
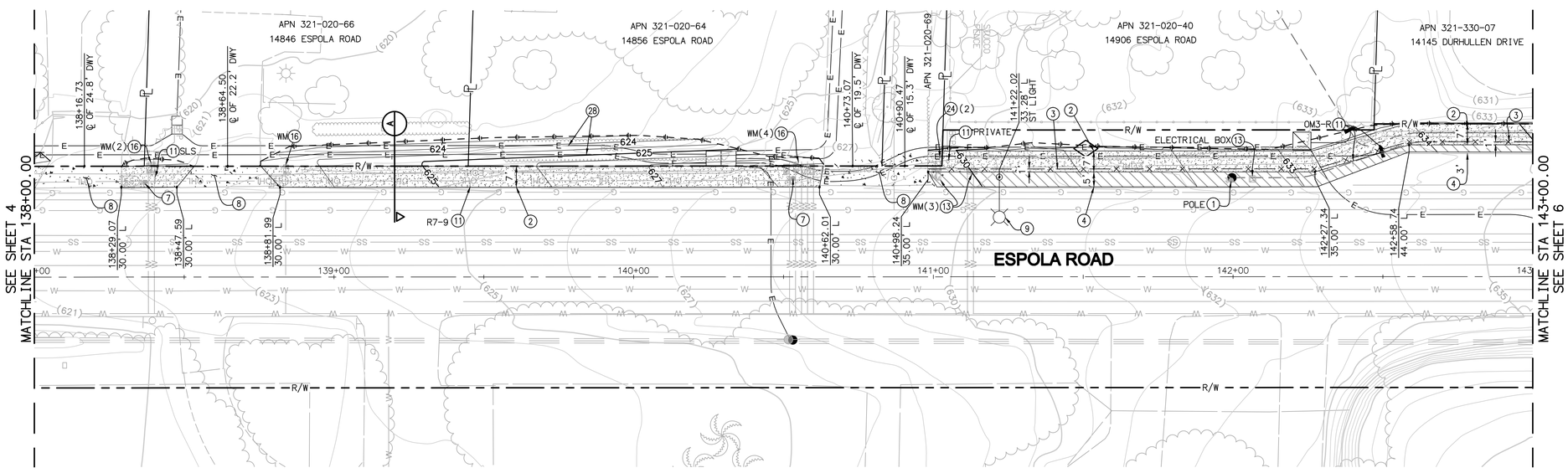


DG PATH PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=4'



DG PATH SECTION A-A
SCALE: 1"=10'



CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. CONSTRUCT 7'-WIDE DG PATH PER DETAIL 1 SHEET 2.
3. CONSTRUCT LODGEPOLE FENCE PER DETAIL 3 SHEET 2.
4. GRADED SHOULDER.
7. REMOVE EXISTING POWER POLE PER SDG&E <JN XXXX>.
8. REPLACE EXISTING PRIVATE DRIVEWAY WITH ADA COMPLIANT TRAIL TO DRIVEWAY TRANSITION PER SDRSD G-14A & G-14B.
9. INSTALL STREET LIGHT PER CITY STREET LIGHT STANDARDS.
11. REMOVE AND RELOCATE EXISTING SIGN.
13. ADJUST TO FINISH GRADE.
16. REMOVE AND RELOCATE EXISTING UTILITY BOX.
24. RELOCATE EXISTING BACKFLOW PREVENTOR.
28. UNDERGROUND ELECTRICAL TO BE DONE BY OTHERS.

SCALE: 1"=20'

20 10 0 20 40 60
SCALE: 1"=20'

CIP NUMBER: 12010

Sheet 5	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
STA 138+00.00 TO STA 143+00.00 PLAN AND PROFILE
California Coordinate Index: 294-1761, 298-1761

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

APPROVED BY:	DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975	

ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY M. THIELE
No. C60283
CIVIL
STATE OF CALIFORNIA

Michael Baker INTERNATIONAL
5050 Avenida Encinas, Ste 260
Carlsbad, CA 92008
Phone: (760) 476-9193
WWW.MBAKERINTL.COM

REFERENCES

CITY APPROVED CHANGES			
No.	Description	Approved By	Date

BENCH MARK
DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB
LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY
RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

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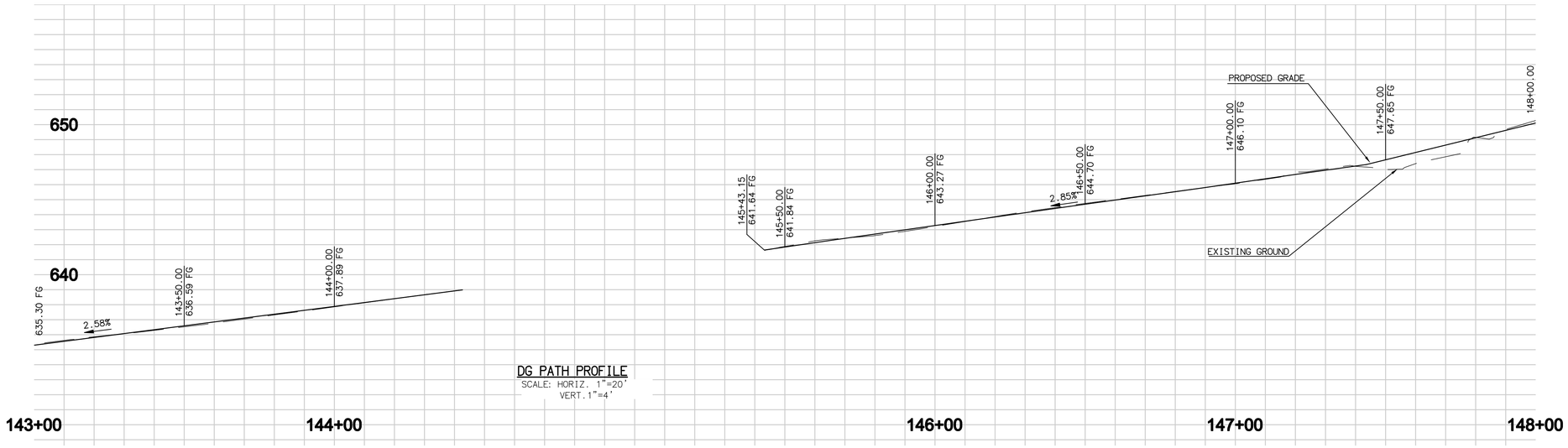
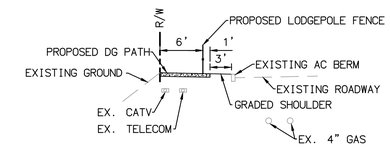
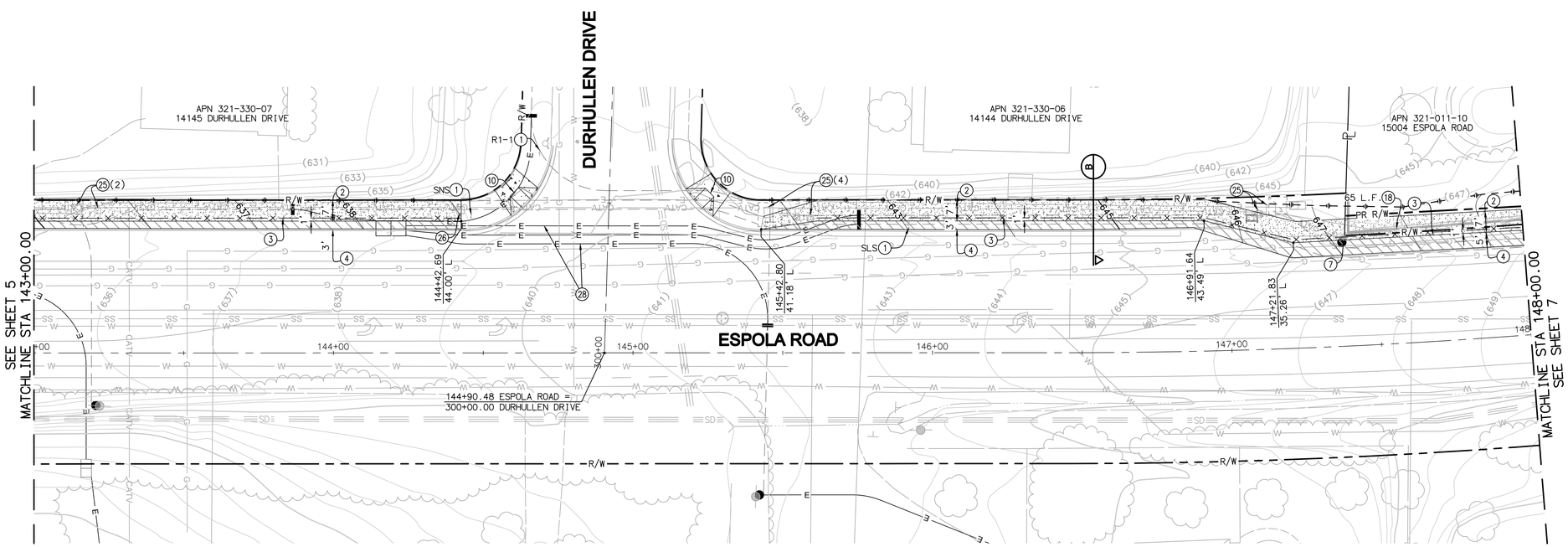


DG PATH PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=4'



DG PATH SECTION B-B
SCALE: 1"=10'



CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. CONSTRUCT 7'-WIDE DG PATH PER DETAIL 1 SHEET 2.
3. CONSTRUCT LODGEPOLE FENCE PER DETAIL 3 SHEET 2.
4. GRADED SHOULDER.
7. REMOVE EXISTING POWER POLE PER SDG&E <JN XXXX>.
10. CONSTRUCT CURB RAMP TYPE A-1 PER SDRSD G-28.
18. REMOVE EXISTING WALL AND REPLACE AT PROPOSED PROPERTY LINE.
25. RELOCATE EXISTING ELECTRICAL BOX.
26. RELOCATE EXISTING STREET LIGHT.
28. UNDERGROUND ELECTRICAL TO BE DONE BY OTHERS.

SCALE: 1"=20'

20 10 0 20 40 60
SCALE: 1"=20'

CIP NUMBER: 12010

Sheet 6	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
STA 143+00.00 TO STA 148+00.00 PLAN AND PROFILE
California Coordinate Index: 294-1761, 298-1761

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

APPROVED BY:	DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975	

ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

REGISTERED PROFESSIONAL ENGINEER TIMOTHY M. THIELE No. C60283 CIVIL STATE OF CALIFORNIA

Michael Baker INTERNATIONAL
5050 Avenida Encinas, Ste 260
Carlsbad, CA 92008
Phone: (760) 476-9193
WWW.MBAKERINTL.COM

REFERENCES

CITY APPROVED CHANGES			
No.	Description	Approved By	Date

BENCH MARK
DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB
LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY
RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

RECORD DRAWING NUMBER

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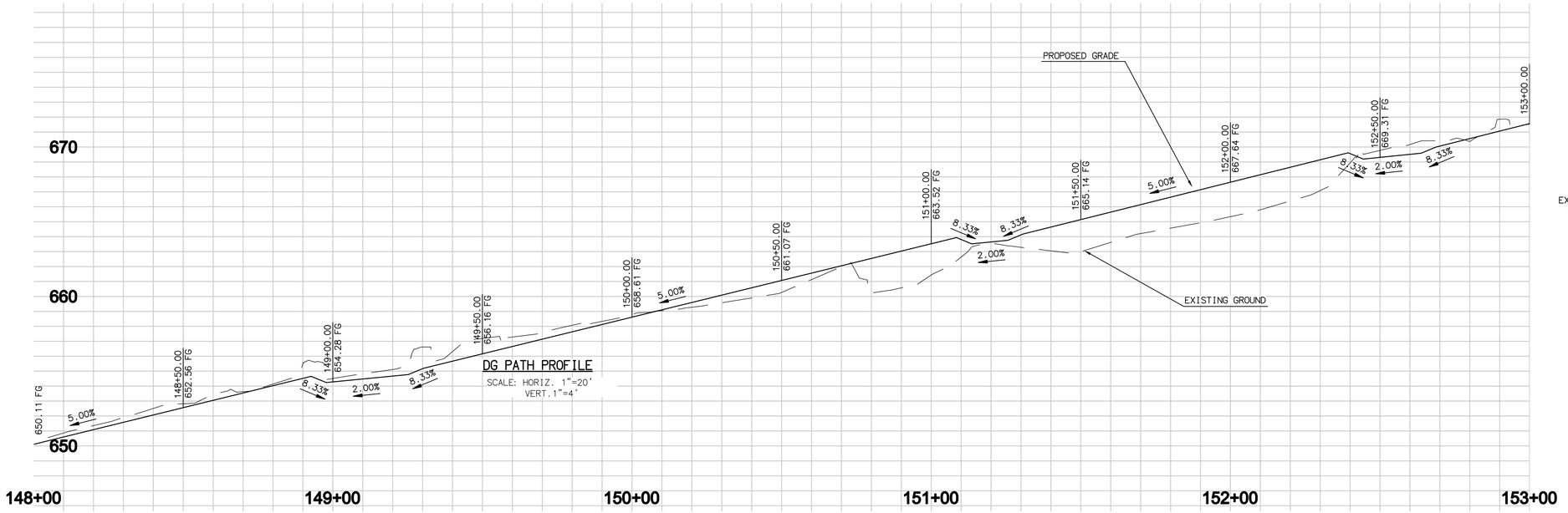
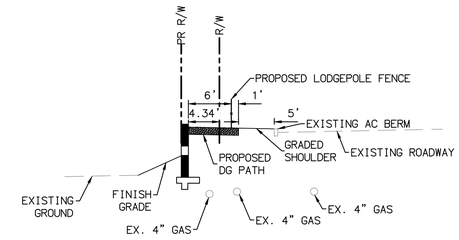


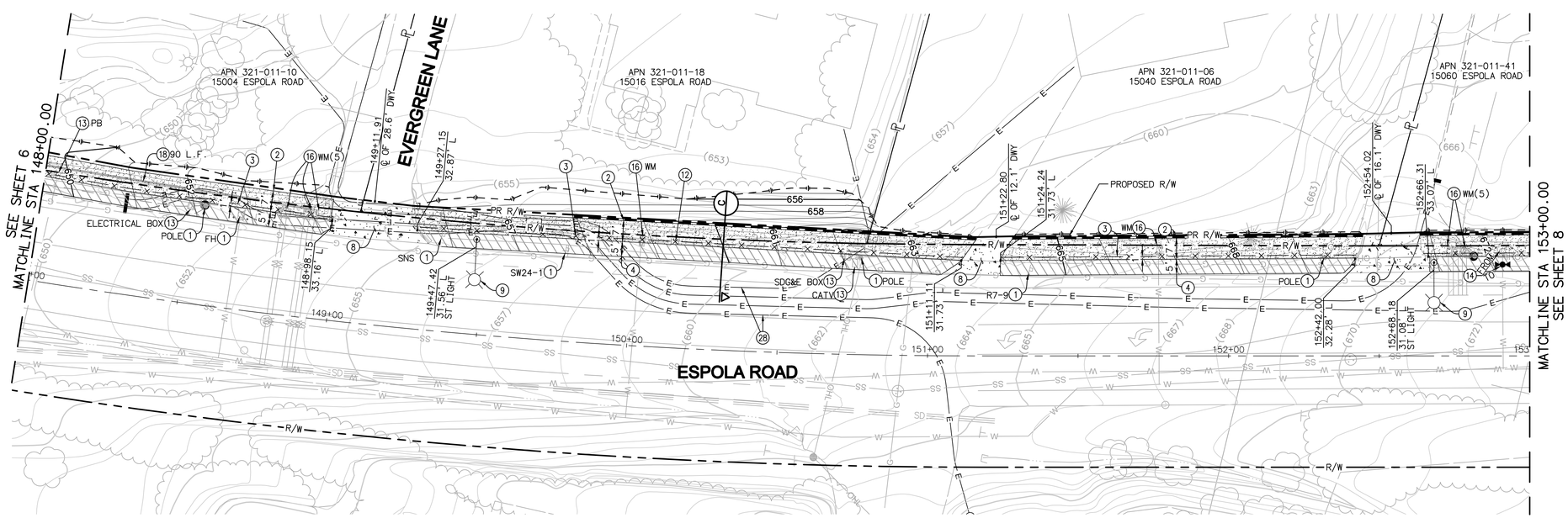
DG PATH PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=4'



DG PATH SECTION C-C

SCALE: 1"=10'



CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. CONSTRUCT 7'-WIDE DG PATH PER DETAIL 1 SHEET 2.
3. CONSTRUCT LODGEPOLE FENCE PER DETAIL 3 SHEET 2.
4. GRADED SHOULDER.
8. REPLACE EXISTING PRIVATE DRIVEWAY WITH ADA COMPLIANT TRAIL TO DRIVEWAY TRANSITION PER SDRSD G-14A & G-14B.
9. INSTALL STREET LIGHT PER CITY STREET LIGHT STANDARDS.
12. REMOVE EXISTING FENCE AND REPLACE AT NEW PROPERTY LINE.
13. ADJUST TO FINISH GRADE.
14. REMOVE AND RELOCATE EXISTING FIRE HYDRANT.
16. REMOVE AND RELOCATE EXISTING UTILITY BOX.
18. REMOVE EXISTING WALL AND REPLACE AT PROPOSED PROPERTY LINE.
28. UNDERGROUND ELECTRICAL TO BE DONE BY OTHERS.

SCALE: 1"=20'

20 10 0 20 40 60

SCALE: 1"=20'

CIP NUMBER: 12010

Sheet 7	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR

ESPOLA ROAD SAFETY IMPROVEMENTS

FROM MOUNTAIN ROAD TO NORTHCREST LANE

STA 148+00.00 TO STA 153+00.00 PLAN AND PROFILE

California Coordinate Index: 294-1761, 298-1761

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

APPROVED BY:	DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975	

ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

REGISTERED PROFESSIONAL ENGINEER TIMOTHY M. THIELE No. C60283 CIVIL STATE OF CALIFORNIA

Michael Baker INTERNATIONAL

5050 Avenida Encinas, Ste 260
Carlsbad, CA 92008
Phone: (760) 476-9193
WWW.MBAKERINTL.COM

REFERENCES

CITY APPROVED CHANGES

No.	Description	Approved By	Date

BENCH MARK

DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB

LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY

RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK

ELEVATION: 812.989 (FT) **DATUM:** NGVD29

RECORD DRAWING NUMBER _____

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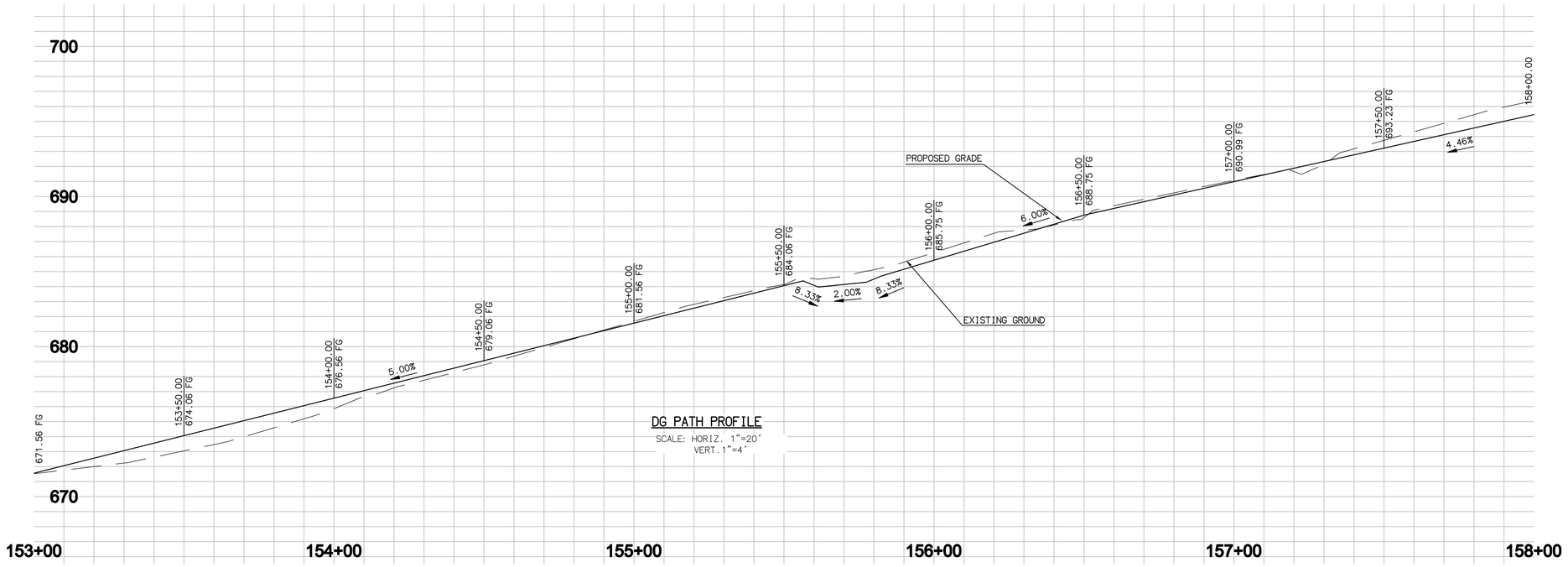
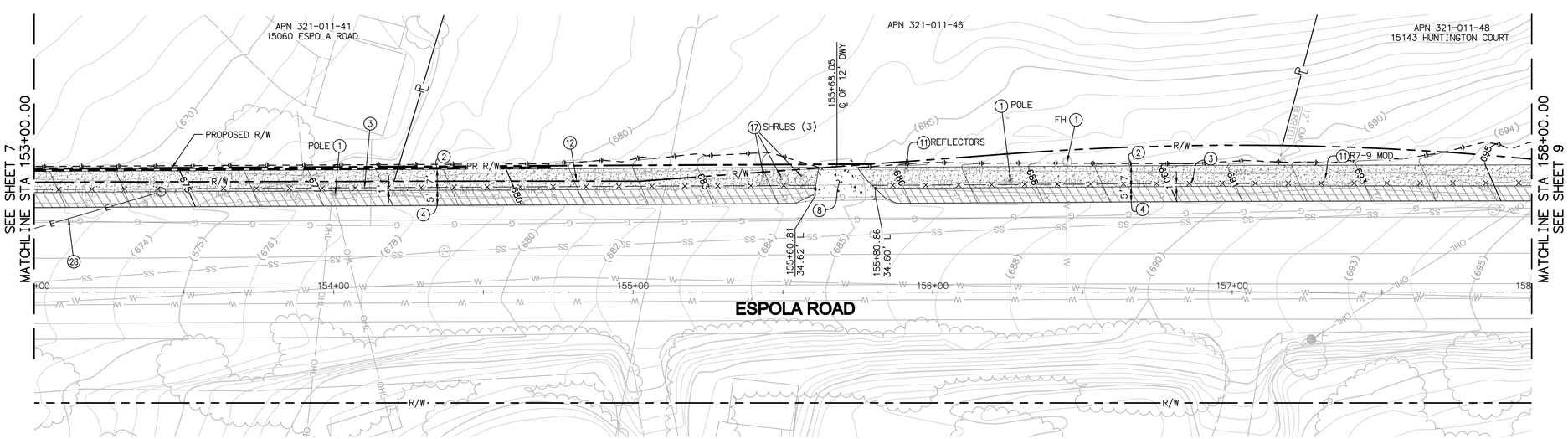
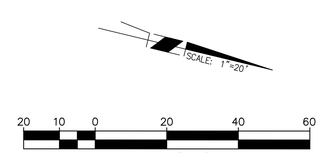


CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. CONSTRUCT 7'-WIDE DG PATH PER DETAIL 1 SHEET 2.
3. CONSTRUCT LODGEPOLE FENCE PER DETAIL 3 SHEET 2.
4. GRADED SHOULDER.
8. REPLACE EXISTING PRIVATE DRIVEWAY WITH ADA COMPLIANT TRAIL TO DRIVEWAY TRANSITION PER SDRSD G-14A & G-14B.
11. REMOVE AND RELOCATE EXISTING SIGN.
12. REMOVE EXISTING FENCE AND REPLACE AT NEW PROPERTY LINE.
17. REMOVE EXISTING TREE OR SHRUB.
28. UNDERGROUND ELECTRICAL TO BE DONE BY OTHERS.





CIP NUMBER: 12010

Sheet 8	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
STA 153+00.00 TO STA 158+00.00 PLAN AND PROFILE
California Coordinate Index: 294-1761, 298-1761

APPROVED BY:	DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975	
ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

REGISTERED PROFESSIONAL ENGINEER TIMOTHY M. THIELE No. C60283 CIVIL STATE OF CALIFORNIA

Michael Baker INTERNATIONAL
5050 Avenida Encinas, Ste 260
Carlsbad, CA 92008
Phone: (760) 476-9193
WWW.MBAKERINTL.COM

REFERENCES

CITY APPROVED CHANGES

No.	Description	Approved By	Date

BENCH MARK

DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB
LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY
RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

RECORD DRAWING NUMBER

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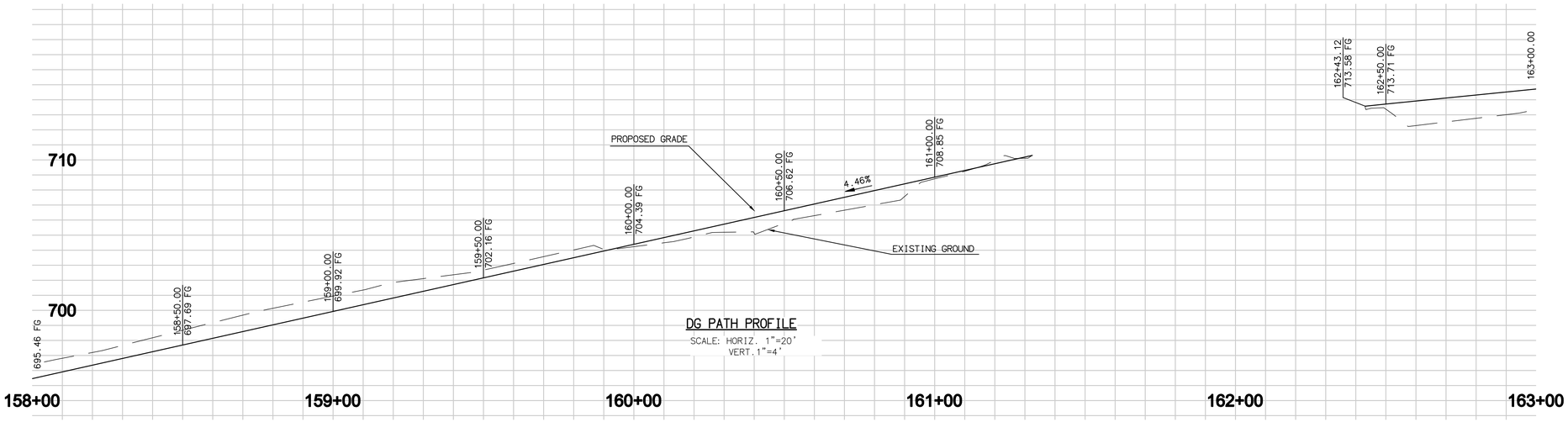

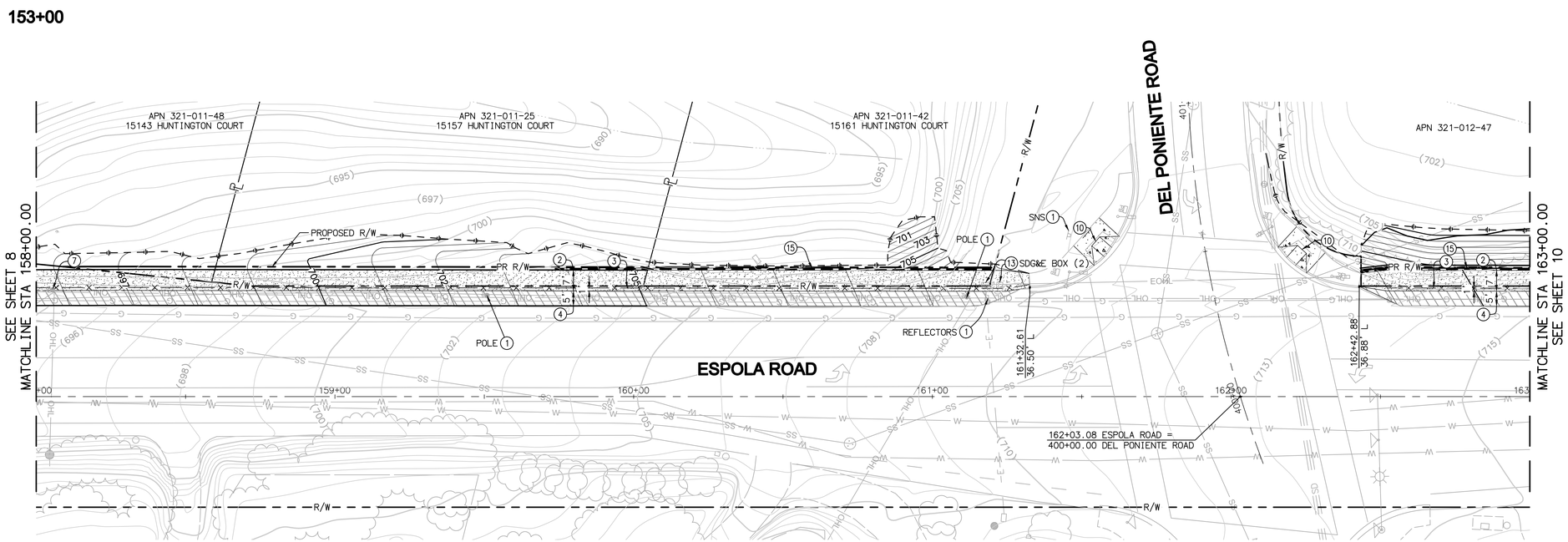

CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. CONSTRUCT 7'-WIDE DG PATH PER DETAIL 1 SHEET 2.
3. CONSTRUCT LODGEPOLE FENCE PER DETAIL 3 SHEET 2.
4. GRADED SHOULDER.
7. REMOVE EXISTING POWER POLE PER SDG&E <JN XXXX>.
10. CONSTRUCT CURB RAMP TYPE A-1 PER SDRSD G-28.
13. ADJUST TO FINISH GRADE.
15. CONSTRUCT RETAINING WALL WITH RAILING PER DETAIL 4 SHEET 2.

CIP NUMBER: 12010

Sheet 9	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
STA 158+00.00 TO STA 163+00.00 PLAN AND PROFILE
California Coordinate Index: 294-1761, 298-1761

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

APPROVED BY:	DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975	

ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY M. THIELE
No. C60283
CIVIL
STATE OF CALIFORNIA

Michael Baker INTERNATIONAL

5050 Avenida Encinas, Ste 260
Carlsbad, CA 92008
Phone: (760) 476-9193
WWW.MBAKERINTL.COM

REFERENCES

CITY APPROVED CHANGES

No.	Description	Approved By	Date

BENCH MARK

DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB

LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY

RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

RECORD DRAWING NUMBER _____

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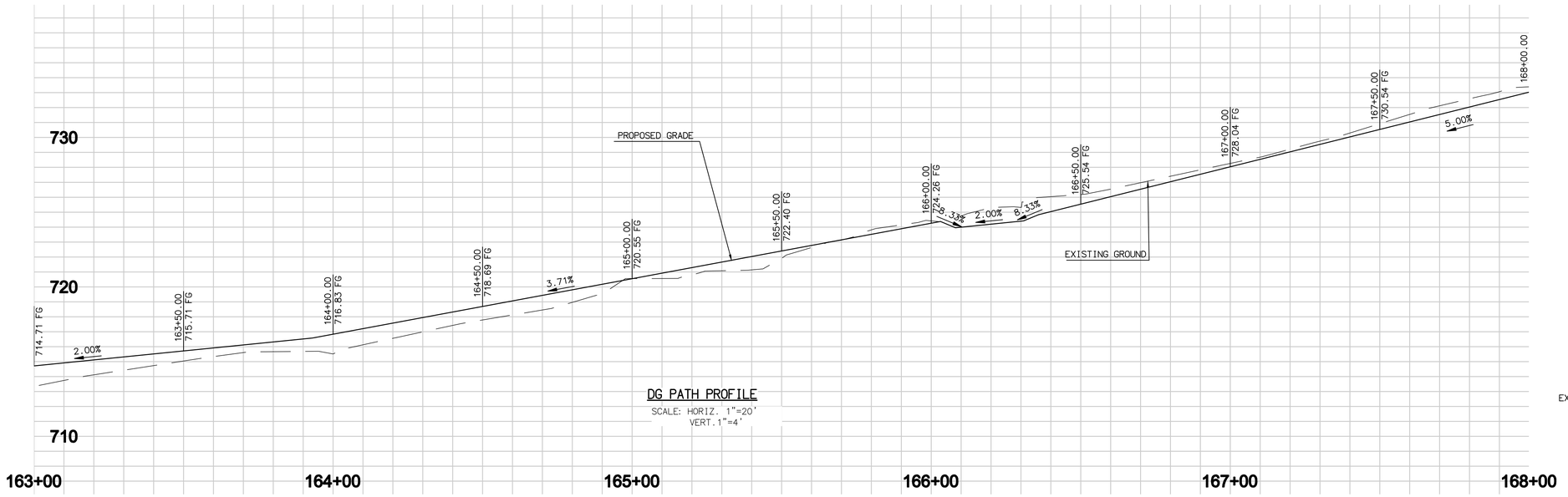
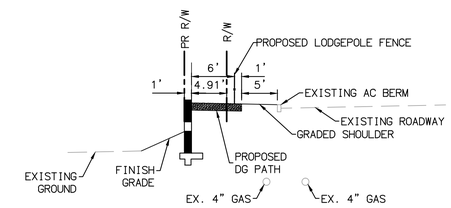


DG PATH PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=4'

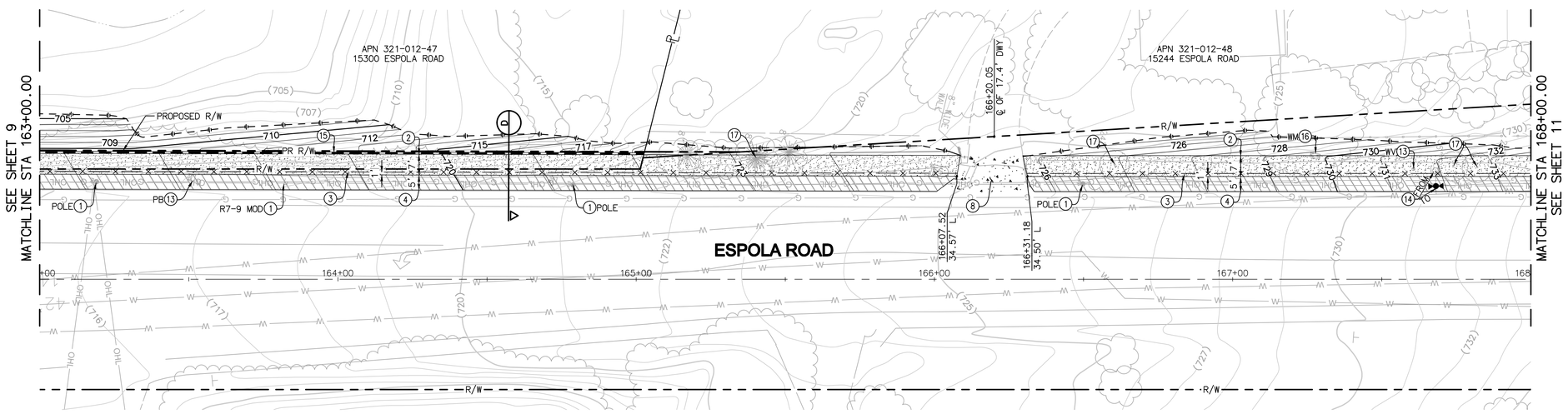


DG PATH SECTION D-D

SCALE: 1"=10'

CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. CONSTRUCT 7'-WIDE DG PATH PER DETAIL 1 SHEET 2.
3. CONSTRUCT LODGEPOLE FENCE PER DETAIL 3 SHEET 2.
4. GRADED SHOULDER.
8. REPLACE EXISTING PRIVATE DRIVEWAY WITH ADA COMPLIANT TRAIL TO DRIVEWAY TRANSITION PER SDRSD G-14A & G-14B.
13. ADJUST TO FINISH GRADE.
14. REMOVE AND RELOCATE EXISTING FIRE HYDRANT.
15. CONSTRUCT RETAINING WALL WITH RAILING PER DETAIL 4 SHEET 2.
16. REMOVE AND RELOCATE EXISTING UTILITY BOX.
17. REMOVE EXISTING TREE OR SHRUB.



SCALE: 1"=20'

20 10 0 20 40 60

SCALE: 1"=20'

CIP NUMBER: 12010

Sheet 10	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
STA 163+00.00 TO STA 168+00.00 PLAN AND PROFILE
California Coordinate Index: 294-1761, 298-1761

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

APPROVED BY:	DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975	

ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

REGISTERED PROFESSIONAL ENGINEER TIMOTHY M. THIELE No. C60283 CIVIL STATE OF CALIFORNIA

Michael Baker INTERNATIONAL

5050 Avenida Encinas, Ste 260
Carlsbad, CA 92008
Phone: (760) 476-9193
WWW.MBAKERINTL.COM

REFERENCES

CITY APPROVED CHANGES			
No.	Description	Approved By	Date

BENCH MARK

DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB

LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY

RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

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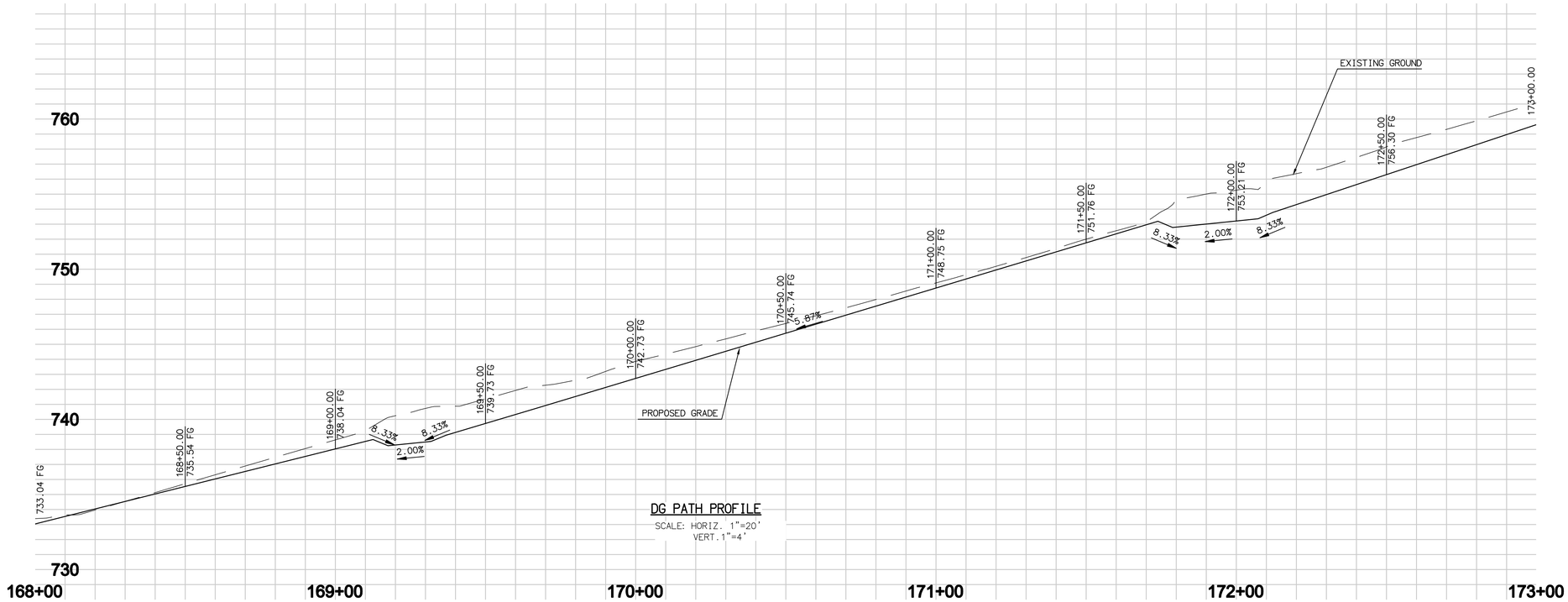
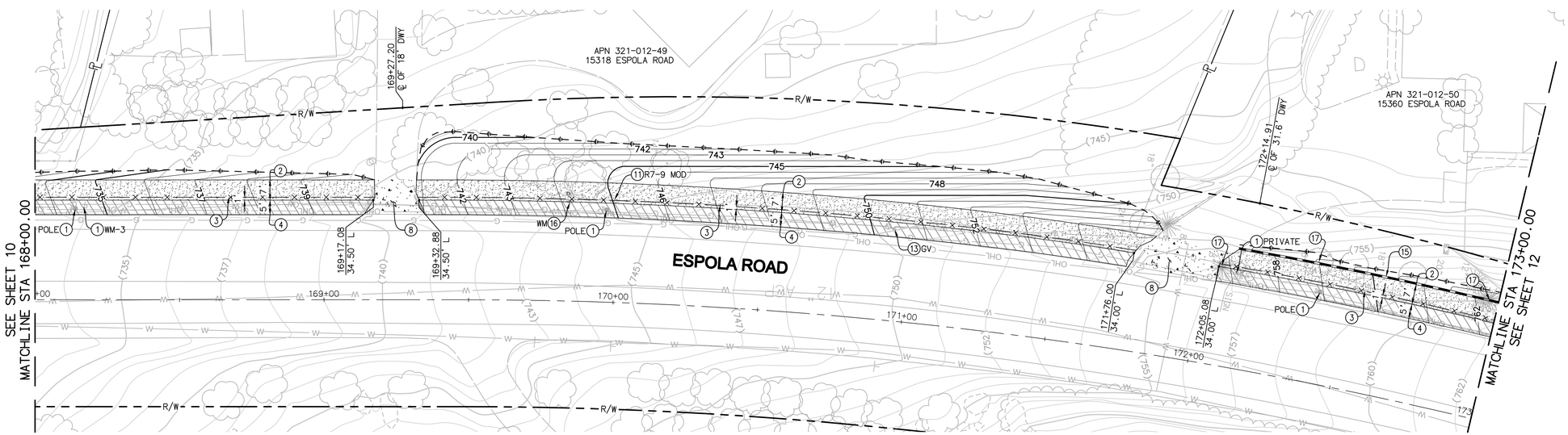


DG PATH PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=4'



SCALE: 1"=20'

20 10 0 20 40 60

SCALE: 1"=20'

CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. CONSTRUCT 7'-WIDE DG PATH PER DETAIL 1 SHEET 2.
3. CONSTRUCT LODGEPOLE FENCE PER DETAIL 3 SHEET 2.
4. GRADED SHOULDER.
8. REPLACE EXISTING PRIVATE DRIVEWAY WITH ADA COMPLIANT TRAIL TO DRIVEWAY TRANSITION PER SDRSD G-14A & G-14B.
11. REMOVE AND RELOCATE EXISTING SIGN.
13. ADJUST TO FINISH GRADE.
15. CONSTRUCT RETAINING WALL WITH RAILING PER DETAIL 4 SHEET 2.
16. REMOVE AND RELOCATE EXISTING UTILITY BOX.
17. REMOVE EXISTING TREE OR SHRUB.

CIP NUMBER: 12010

Sheet 11	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
STA 168+00.00 TO STA 173+00.00 PLAN AND PROFILE
California Coordinate Index: 294-1761, 298-1761

APPROVED BY: DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975

ENGINEER OF WORK: DATE
TIMOTHY M THIELE R.C.E. 60283

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

BENCH MARK

DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB

LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY

RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY M. THIELE
No. C80283
CIVIL
STATE OF CALIFORNIA

Michael Baker INTERNATIONAL
5050 Avenida Encinas, Ste 260
Carlsbad, CA 92008
Phone: (760) 476-9193
WWW.MBAKERINTL.COM

REFERENCES

CITY APPROVED CHANGES

No.	Description	Approved By	Date

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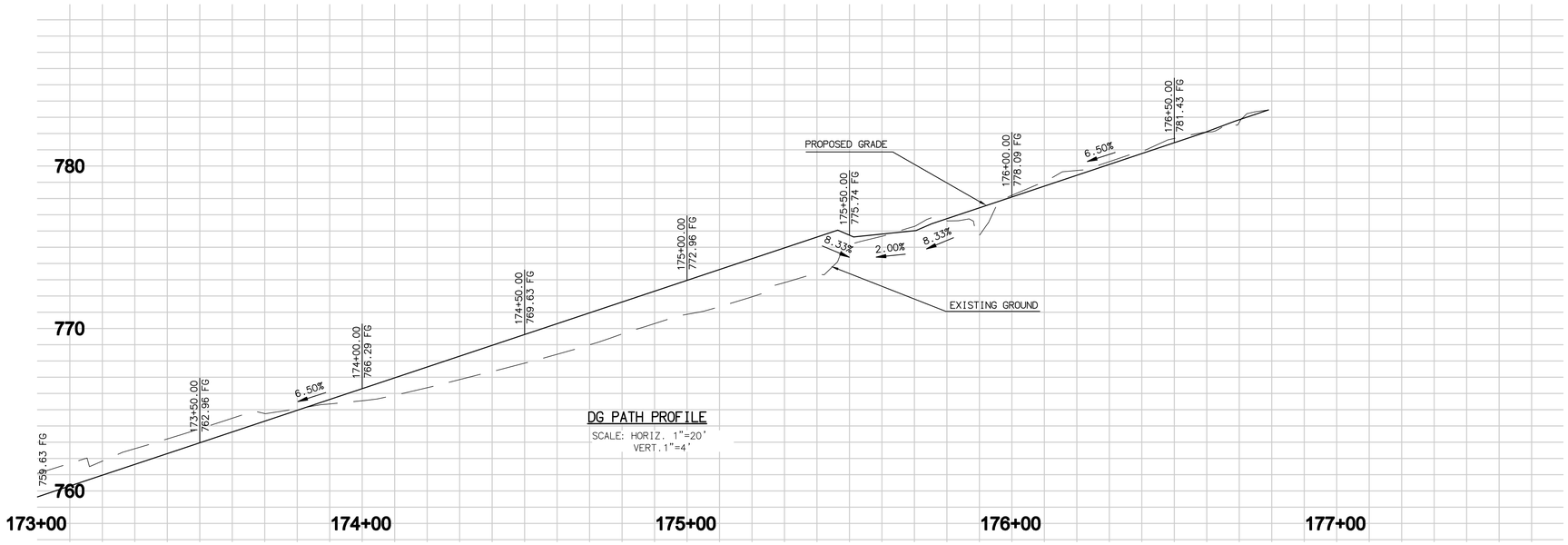
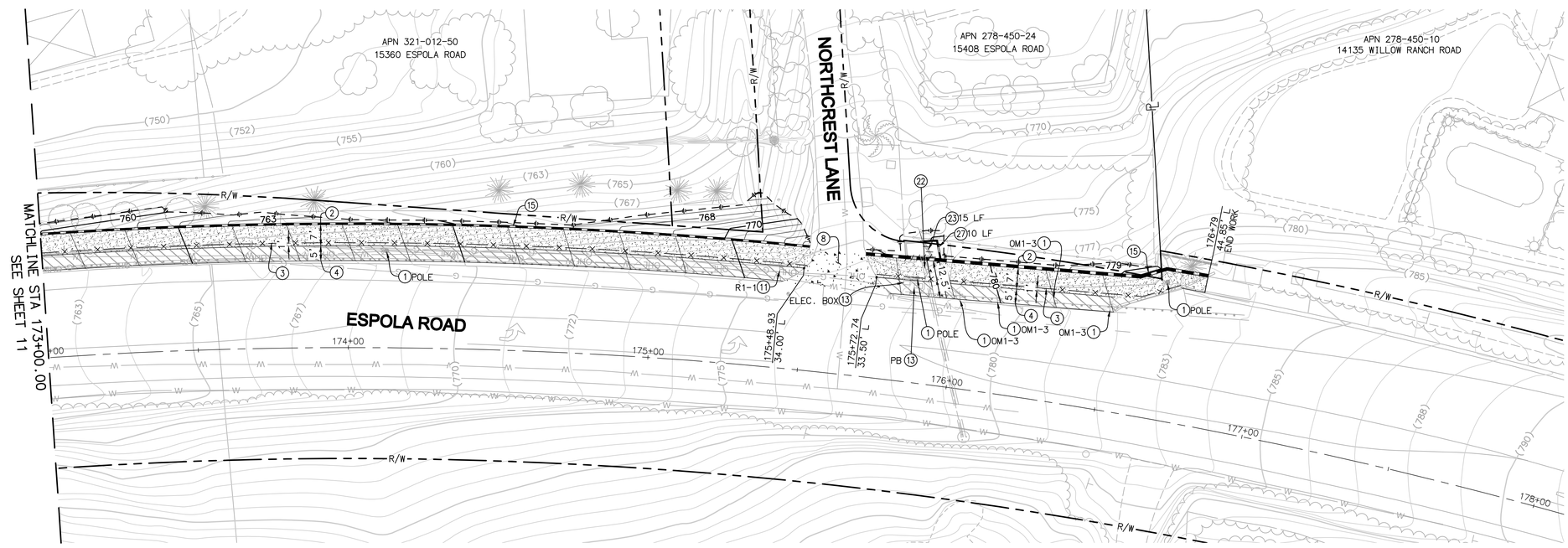


DG PATH PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=4'



CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. CONSTRUCT 7'-WIDE DG PATH PER DETAIL 1 SHEET 2.
3. CONSTRUCT LODGEPOLE FENCE PER DETAIL 3 SHEET 2.
4. GRADED SHOULDER.
8. REPLACE EXISTING PRIVATE DRIVEWAY WITH ADA COMPLIANT TRAIL TO DRIVEWAY TRANSITION PER SDRSD G-14A & G-14B.
11. REMOVE AND RELOCATE EXISTING SIGN.
13. ADJUST TO FINISH GRADE.
15. CONSTRUCT RETAINING WALL WITH RAILING PER DETAIL 4 SHEET 2.
22. CONSTRUCT SLOT DRAIN PER DETAIL 1 SHEET 3.
23. ADJUST HEIGHT OF EXISTING HEADWALL STRUCTURE TO MATCH FINISH GRADE PER DETAIL 2 ON SHEET 3.
27. EXTEND EXISTING BASIN WALL.

20 10 0 20 40 60

SCALE: 1"=20'

CIP NUMBER: 12010

Sheet 12	CITY OF POWAY Department of Development Services	12 Sheets

IMPROVEMENT PLANS FOR
ESPOLA ROAD SAFETY IMPROVEMENTS
FROM MOUNTAIN ROAD TO NORTHCREST LANE
STA 173+00.00 TO END PLAN AND PROFILE
California Coordinate Index: 294-1761, 298-1761

CITY OF POWAY PROJECT MANAGER: STEVE CROSBY	DATE
DESIGNED	
DRAWN	
CHECKED	

APPROVED BY:	DATE
CITY ENGINEER: STEVE CROSBY R.C.E 41975	
ENGINEER OF WORK:	DATE
TIMOTHY M THIELE R.C.E. 60283	

REGISTERED PROFESSIONAL ENGINEER TIMOTHY M. THIELE No. C60283 CIVIL STATE OF CALIFORNIA

Michael Baker INTERNATIONAL

5050 Avenida Encinas, Ste 260
Carlsbad, CA 92008
Phone: (760) 476-9193
WWW.MBAKERINTL.COM

REFERENCES

CITY APPROVED CHANGES			
No.	Description	Approved By	Date

BENCH MARK

DESCRIPTION: 2" BRASS DISK STAMPED "POWAY A-60" IN THE TOP OF CURB

LOCATION: SOUTHWEST CURB RETURN OF ESPOLA ROAD & TITAN WAY

RECORDED FROM: CITY OF POWAY VERTICAL CONTROL NETWORK
ELEVATION: 812.989 (FT) **DATUM:** NGVD29

H:\PDATA\144696_ESPOLA RD\CADD\LAND\DLV\IMPROVE\144696-12-IMP.DWG STACEY.BURROWS 7/29/15 11:57 am

RECORD DRAWING NUMBER_____