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SEWER	EL DORADO IRRIGATION DISTRICT	ELIZABETH WELLS	530-642-4146
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OTHER	UNDERGROUND SERVICE ALERT		800-642-2444



**DEPARTMENT OF TRANSPORTATION
COUNTY OF EL DORADO, CA**

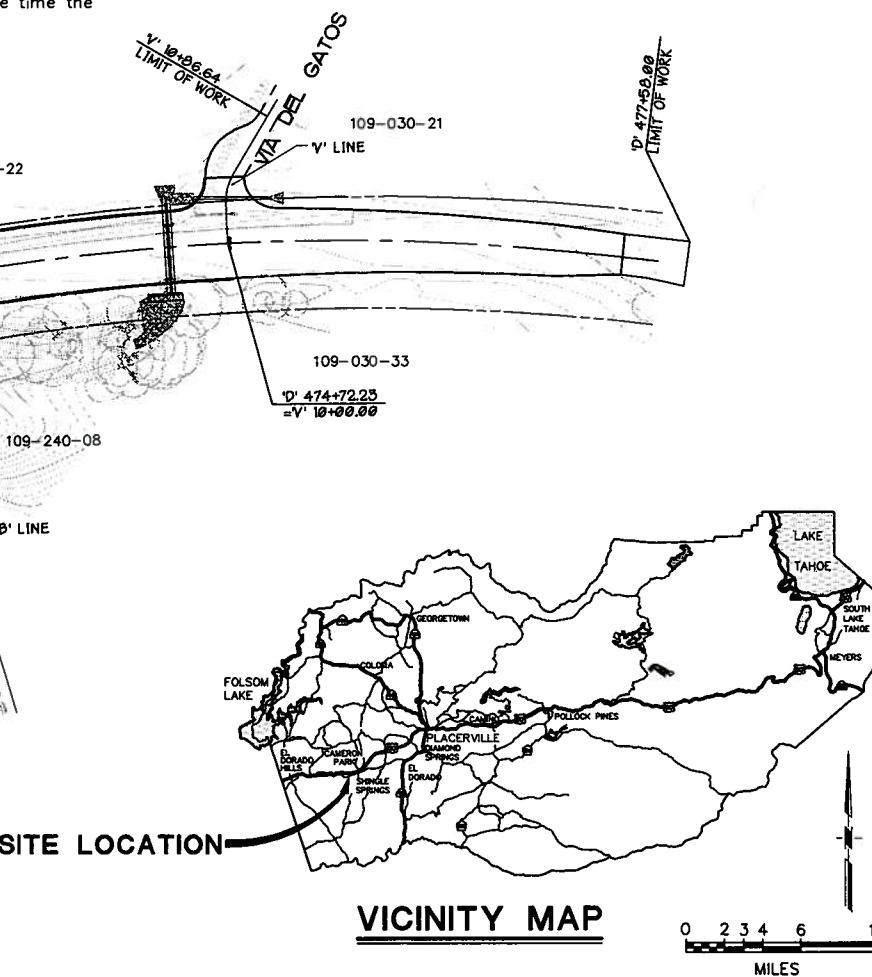
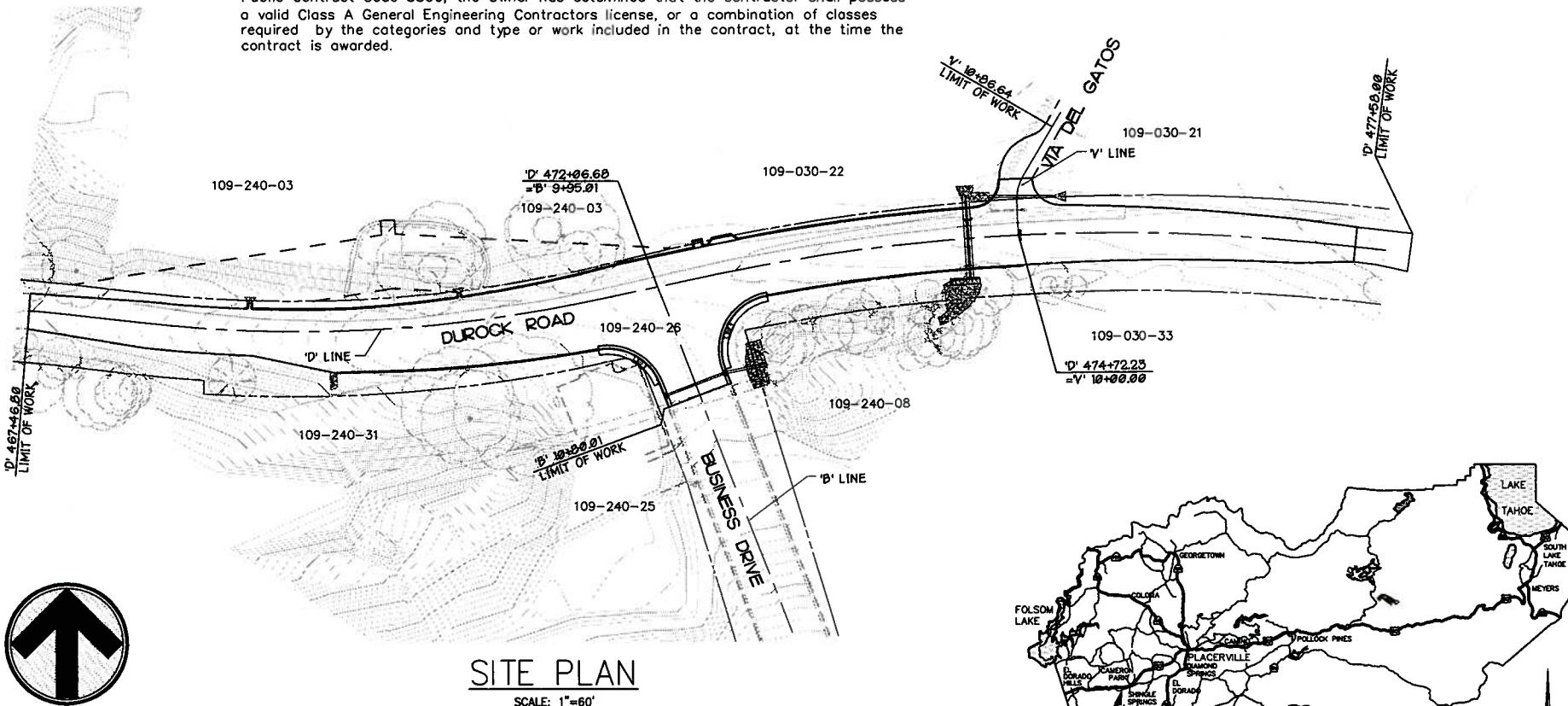
PROJECT PLANS FOR THE CONSTRUCTION OF

DUROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION
WIDENING – CONTRACT NO. 73354

IN THE COUNTY OF EL DORADO, DISTRICT II
SHINGLE SPRINGS, CA

To be supplemented with Standard Plans and Specifications dated May 2006,
of the California Department of Transportation.

The Contractor's license Classification: In accordance with the provisions of California Public Contract Code 3300, the Owner has determined that the contractor shall possess a valid Class A General Engineering Contractors license, or a combination of classes required by the categories and type or work included in the contract, at the time the contract is awarded.



SUBMITTED BY: CHUCK S. PAZZ
CIVIL ENGINEER
STATE OF CALIFORNIA NO. C52677

07/19/2010



CONTRACT NO. PW 09-30449, CIP NO. 73354
**DUROCK ROAD & BUSINESS DRIVE TRAFFIC SIGNALS
& INTERSECTION WIDENING
TITLE SHEET
SUBMITTAL DATE: 05-14-10
1 OF 20
SHEET**

BOARD OF SUPERVISORS	
I	JOHN KNIGHT
II	RAY NUTTING
III	JAMES SWEENEY
IV	RON BRIGGS
V	NORMA SANTIAGO

COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	
	
(916) 358-3550	PKWY
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EL DORADO HILLS, CA 95762	

三

BOARD OF SUPERVISORS	I	II	III	IV	V
JOHN KNIGHT					
RAY NUTTING					
JAMES SWEENEY					
RON BRIGGS					
NORMA SANTIAGO					

CALTRANS 2006 Standard Plan Abbreviations

AB	aggregate base	EA	each	Max	maximum	PRC	point of reverse curve
ABBC	asbestos bonded	Ease	easement	MB	metal beam	PRF	pavement reinforcing fabric
	bituminous coated	EB	end of bridge or eastbound	MBB	metal beam barrier	PRVC	point of reverse vertical curve
ABM	air-blown mortar	EC	end horizontal curve	MBGR	metal beam guard railing		
Abn	abandon	ECR	end curb return	Med	median		
Abut	abutment	ED	edge drain	MFBM	thousand foot board	PSP	perforated steel pipe
AC	asphalt concrete	EDC	edge drain cleanout	MH	measure	PVC	polyvinyl chloride
ACB	asphalt concrete base	EDO	edge drain outlet	Mkr	manhole	Pwmt	pavement
ACP	asbestos cement pipe	EDV	edge drain vent	Min	minimum, minutes	R	radius
AFES	alternative flared end section	Elev	elevation	Misc I & S	miscellaneous iron and steel	RCA	reinforced concrete arch
Ahd	ahead	Ernb	embankment	Misc	miscellaneous	RCB	reinforced concrete box
Adj	adjust	EP	edge of pavement	Mod	modified or modify	RCP	reinforced concrete pipe
Alt	alternate	Eq	equation	Mon	monument	RCPA	reinforced concrete pipe arch
AP	alternative pipe	ES	edge of shoulder	MP	metal plate	R & D	remove and dispose
APC	alternative pipe culvert	ETW	edge of traveled way	MPGR	metal plate guard railing	Rd	road
APU	alternative pipe underdrain	EVC	end vertical curve	MR	movement rating	Reinf	reinforced or reinforcing
AS	aggregate subbase	EW	endwall	MU	material	Rel	relocate
ASRP	aluminum spiral rib pipe	Exc	excavation	NB	northbound	Ret	retaining
Assy	assembly	Exist	existing	No.	number	RM	road-mixed
ATPB	asphalt treated permeable base	Exp	expressway	NPS	nominal pipe size	RP	reference point
ATPM	asphalt treated permeable material	Exp Jt	expansion joint	nf	nominal diameter	RR	railroad
Ave	avenue	F & C	frame and cover	Oblr	obliterate	R & S	remove and salvage
BB	beginning of bridge	Fdn	foundation	OC	overcrossing	RSP	rock slope protection
BC	begin horizontal curve	FEBT	facing eastbound traffic	OD	outside diameter	Rt	right
BCR	begin curb return	FNBT	facing northbound traffic	OG	original ground	Rte	route
Beg	begin	FSBT	facing southbound traffic	OGAC	open graded asphalt concrete	RW	retaining wall
Bit Ctd	bituminous coated	FF	filter fabric	OH	overhead	SAE	structure approach embankment
Bk	back	F & G	frame and grate	PAP	perforated aluminum pipe	Salv	salvage
Bkf	backfill	FG	finished grade	PB	pull box	SAPP	structural aluminum plate pipe
Bldg	building	FH	fire hydrant	PC	point of curvature	SB	southbound
Bldv	boulevard	FL	flow line	PCC	point of compound curve or portland cement concrete	SC	sand cushion
BM	bench mark	Fr Rd	frontage road	PCP	perforated concrete pipe	SL	station line
Br	bridge	Ftg	footing	PCVC	point of compound vertical curve	SCSP	slotted corrugated steel pipe or socketed concrete slope protection
BVC	begin vertical curve	Fwy	freeway	Ped	pedestrian	SD	storm drain
BW	barbed wire	Ga	gage	Ped OC	pedestrian overcrossing	Sec	section
CAA	cable anchor assembly	Galv	galvanized	Ped UC	pedestrian undercrossing	Sep	separation
CAP	corrugated aluminum pipe	GP	grading plane	Perm Mtl	permeable material	SG	subgrade
CAPA	corrugated aluminum pipe arch	GR	guard railing	PG	profile grade	SGD	subgrade drain
CAS	construction area sign	GSP	galvanized steel pipe	PI	point of intersection	Shld	shoulder
C-C	center to center	H	height	P/L	property line	Sht	sheet
CF	cubic foot	h	hour	PL	plate		
Chnl	channel	HD	horizontal drain	PM	post mile		
CIDH	cast-in-drilled-hole	Horiz	horizontal	PN	paving notch		
CIP	cast iron pipe	HP	hinge point or horse power	POC	point on horizontal curve		
CICPP	cast-in-place concrete pipe	HS	high strength	POT	point on tangent		
€	centerline	HW	headwall	POVC	point on vertical curve		
CL	chain link	IB	imported borrow	PP	power pole or plastic pipe		
Cl	class	ID	inside diameter	PPP	perforated plastic pipe		
Clr	clear, clearance	Inv	invert	PPL	preformed permeable liner		
Co	county	Irr	irrigation				
Col	column	JP	joint pole				
Conc	concrete	JS	junction structure				
Cond	conduit	Jt	joint				
Conn	connector	KP	kilometer post				
Const	construct (ion)	L	length, liter				
Coord	coordinate	lb	pound				
Cr	creek	LCB	lean concrete base				
CRSP	concreted rock slope protection	Loc	location				
CSP	corrugated steel pipe	LF	linear foot				
CSPA	corrugated steel pipe arch	LOL	layout line				
CTB	cement treated base	Ln	lane				
CTPB	cement treated permeable base	LS	lump sum				
CTPM	cement treated permeable material	Lt	left				
Culv	culvert						
CY	cubic yard						
D	depth						
Dbl	double						
DD	downdrain						
Del	delineator						
Det	detour or detail						
DF	Douglas Fir						
DI	drainage inlet						
Dia	diameter						
Dist	distance						
DMBB	double metal beam barrier						
Dr	drive						
DTBB	double thrie beam barrier						
Dwv	driveway						

SI	International System of Units	Trans	transition
SM	selected material	TS	traffic signal or tubular steel
Spec	special	Typ	typical
SPP	slotted plastic pipe	Typ Sec	typical section
SS	slope stake	UC	undercrossing
SQFT	square foot	UD	underdrain
SQYD	square yard	UP	underpass
SSBM	strap and saddle bracket method	V	design speed or valve
SSD	structural section drain	Var	variable
SSPA	structural steel plate arch	VC	vertical curve
SSPP	structural steel plate pipe	VCP	vitrified clay pipe
SSPPA	structural steel plate pipe arch	Vert	vertical
SSRP	steel spiral rib pipe	Via	vioduct
St	street	W	width
	station	WB	westbound
STBB	single thrie beam barrier	WH	weep hole
Std	standard	WM	wire mesh
Str	structure	WSP	welded steel pipe
Surf	surfacing	WV	water valve
SW	sidewalk or sound wall	WW	wing wall
Swr	sewer	Xing	crossing
T	semi-tangent	X Sec	cross section
TAB	tablet		
TBB	thrie beam barrier		
Tbr	timber		
TC	top of curb		
TCB	traffic control box		
Temp	temporary		
TG	top of grate		
TP	telephone pole		
TPB	treated permeable base		
TPM	treated permeable material		

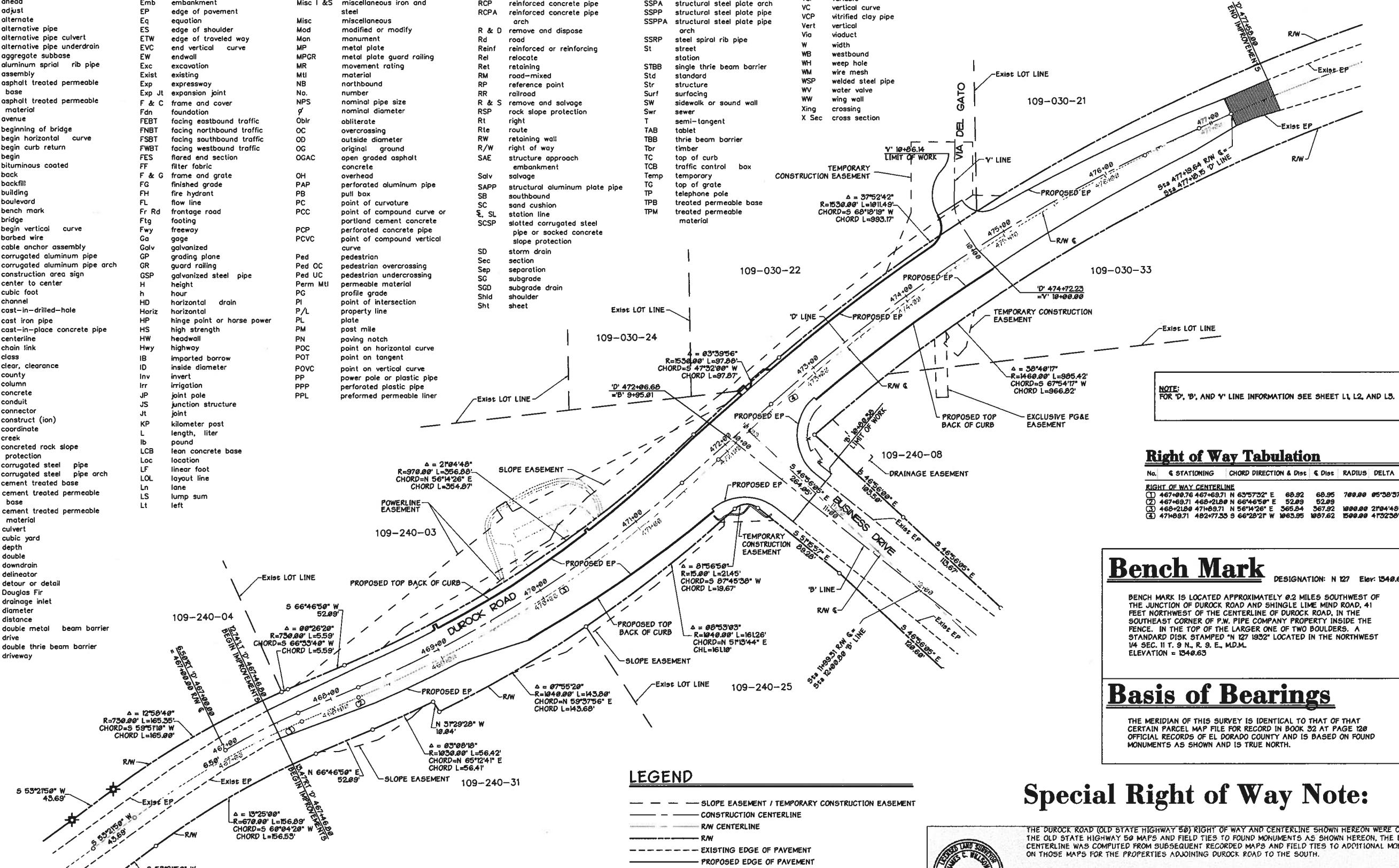
Y 10+
LIMIT 0

TEMPORARY
CONSTRUCTION EASEMENT

$\Delta = 37^{\circ}52'42''$
 $R=1530.00'$ $L=1011.49'$
CHORD=5 68'18"19" W
CHORD L=993.17'

109-030-22

NOTE: THE COUNTY HAS OBTAINED TEMPORARY CONSTRUCTION EASEMENTS AND SLOPE EASEMENTS AS SHOWN BELOW FROM THE PARCEL OWNERS OF APNS 109-030-21, 109-030-22, 109-240-03, 109-240-31, 109-240-25, 109-240-08, 109-030-33.



Right of Way Tabulation

No.	STATIONING	CHORD DIRECTION & Dist		Dist	RADIUS	DELTA
RIGHT OF WAY CENTERLINE						
①	467+09.76	467+08.71	N 65°57'32" E	68.92	68.95	789.00
②	467+09.71	468+21.09	N 66°46'56" E	52.09	52.09	
③	468+21.09	471+09.71	N 65°14'26" E	365.84	367.92	1888.00
④	471+09.71	472+27.33	S 66°22'21" W	163.95	167.62	596.00

Bench Mark

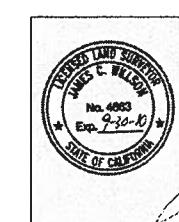
BENCH MARK IS LOCATED APPROXIMATELY 0.2 MILES SOUTHWEST OF THE JUNCTION OF DUROCK ROAD AND SHINGLE LIME MIND ROAD, 41 FEET NORTHWEST OF THE CENTERLINE OF DUROCK ROAD, IN THE SOUTHEAST CORNER OF P.W. PIPE COMPANY PROPERTY INSIDE THE FENCE, IN THE TOP OF THE LARGER ONE OF TWO BOULDERS. A STANDARD DISK STAMPED "N 127 1932" LOCATED IN THE NORTHWEST 1/4 SEC. 11 T. 9 N. R. 9 E. MD.M. ELEVATION 1742.63.

Basis of Bearings

THE MERIDIAN OF THIS SURVEY IS IDENTICAL TO THAT OF THAT CERTAIN PARCEL MAP FILE FOR RECORD IN BOOK 32 AT PAGE 120 OFFICIAL RECORDS OF EL DORADO COUNTY AND IS BASED ON FOUND LINES THIRTY-ONE DEGREES EIGHTY-FIVE MINUTES AND FORTY-THREE SECONDS NORTH.

Special Right of Way Note:

THE DUROCK ROAD (OLD STATE HIGHWAY 50) RIGHTS OF WAY AND CENTERLINE SHOWN HEREON WERE COMPUTED FROM THE OLD STATE HIGHWAY 50 RIGHTS OF WAY MONUMENTS AS SHOWN HEREON, THE BUSINESS DRIVE CENTERLINE WAS COMPUTED FROM THE SEGMENT RECORDED MAPS AND FIELD NOTES TO ADDITIONAL MONUMENTS SHOWN ON THOSE MAPS FOR THIS EDITION BY ADJACENT DUROCK ROAD TO THE SOUTH.



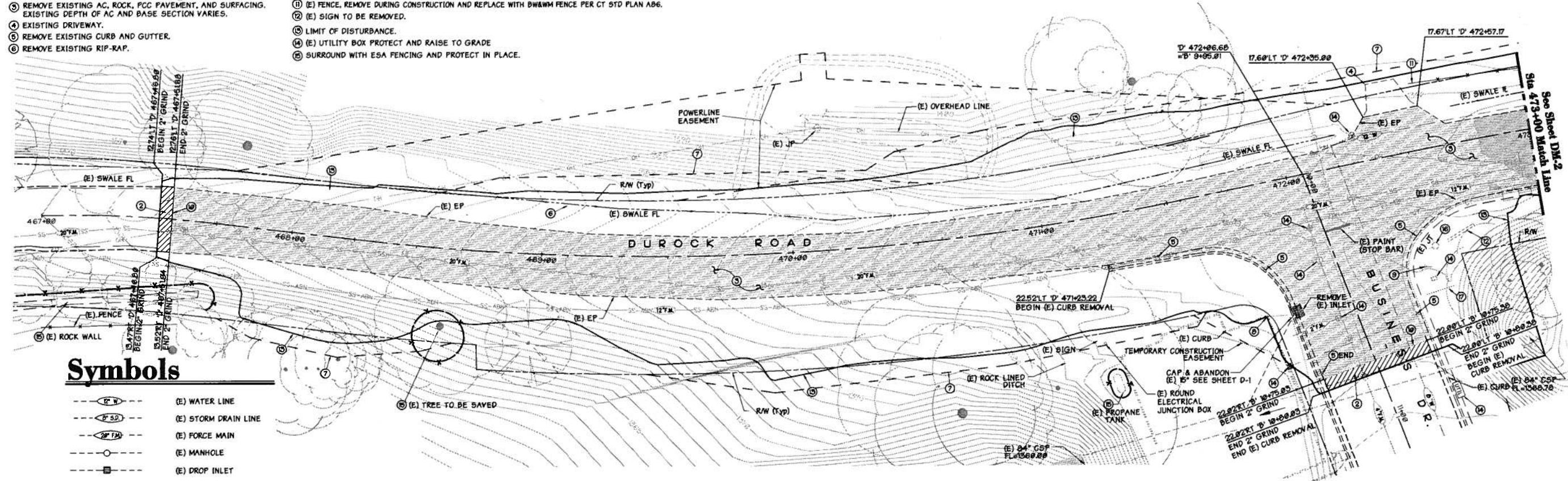
JAMES C. WILLSON

DESIGNED ACR/RES	DATE
DRAWN ASR	Horz. SCALE 1" = 40'
JOB No	Vert. SCALE N/A

G-1
2

Construction Notes

- ① NOT USED
- ② PROVIDE 2" DEEP MINIMUM ABRASIVE GRIND TO PROVIDE SMOOTH TRANSITION TO EXISTING PAVEMENT. ¹⁰ C-1
- ③ REMOVE EXISTING AC, ROCK, PCC PAVEMENT, AND SURFACING. EXISTING DEPTH OF AC AND BASE SECTION VARIES.
- ④ EXISTING DRIVEWAY.
- ⑤ REMOVE EXISTING CURB AND GUTTER.
- ⑥ REMOVE EXISTING RIP-RAP.
- ⑦ SLOPE EASEMENT.
- ⑧ REMOVE (E) CURB. SEE SHEET C-3 FOR LIMITS.
- ⑨ REMOVE (E) SIGNAGE.
- ⑩ SAWCUT LINE.
- ⑪ (E) FENCE. REMOVE DURING CONSTRUCTION AND REPLACE WITH BW&WM FENCE PER CT STD PLAN AB6.
- ⑫ (E) SIGN TO BE REMOVED.
- ⑬ LIMIT OF DISTURBANCE.
- ⑭ (E) UTILITY BOX PROTECT AND RAISE TO GRADE
- ⑮ SURROUND WITH ESA FENCING AND PROTECT IN PLACE.
- ⑯ (E) LIGHT POLE TO BE REMOVED AND DISCARDED. THE ELECTRICAL SERVICE TO LIGHT POLE HAS BEEN ABANDONED BY PG&E.
- ⑰ CUT & CAP EXISTING IRRIGATION.



Symbols

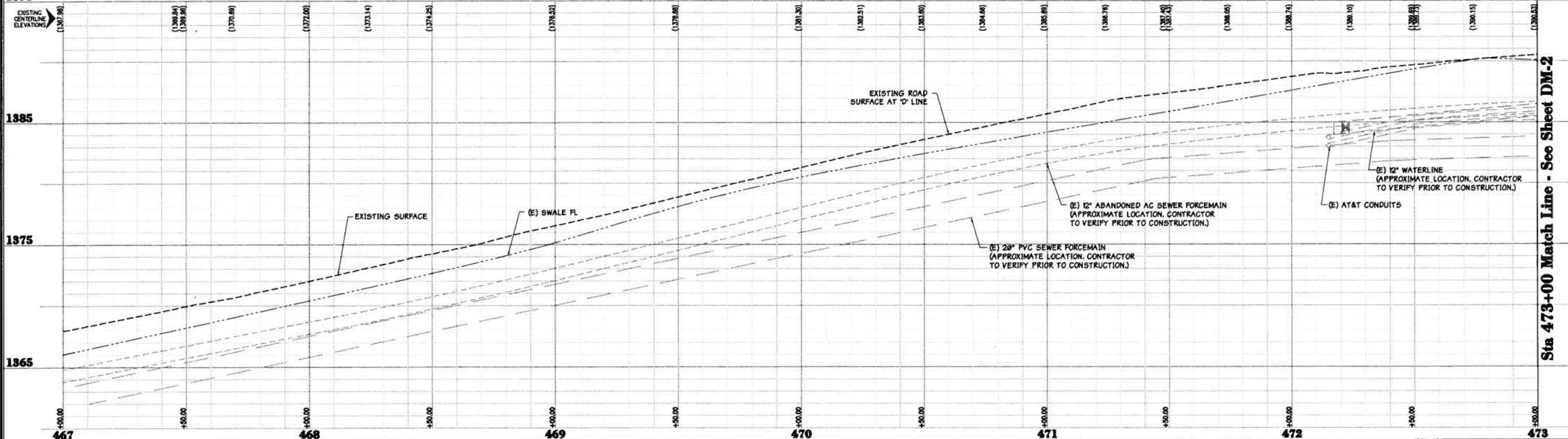
- 12" W (Water Line)
- 6" SD (Storm Drain Line)
- 20" FM (Force Main)
- Manhole
- Drop Inlet
- Ditch or Flowline
- Street Light
- Culvert
- Pole & Anchor
- Right of Way
- Limit of Disturbance
- Water Valve

NOTES:
1. CONTRACTOR MUST POSITIVELY DETERMINE VERTICAL / HORIZONTAL LOCATIONS OF ALL (E) UTILITIES AND CONSTRUCTIBILITY OF DRAINAGE SYSTEM PRIOR TO CONSTRUCTION OF ANY PORTION OF SYSTEM.

Legend

- INDICATES (E) AC TO BE REMOVED
- INDICATES 2" DEEP ABRASIVE GRIND (Typ)

1395



DUROCK ROAD & BUSINESS DRIVE TRAFFIC SIGNAL & INTERSECTION WIDENING STA 473+00 DEMOLITION PLAN

COUNTY OF EL DORADO
DEPARTMENT OF
TRANSPORTATION
Ownership Information:
SUBMITTAL DATE: 05-14-10

DESIGNED
ACRES
DRAWN
ASR
JOB No.
WWT SCALE
T-4
SHEET
DM-1
4

Sta. 473+00 Match Line - See Sheet DM-2

09-0952.3B.4

Construction Notes

① PLACE 6" AC OVER 105" CLASS 2 AB, COMPACT ENGINEERED FILL AND SUBGRADE PER CALTRANS STANDARD SPECIFICATION 19-5.05.

② CONSTRUCT TYPE 'A' AC DIKE. PER DETAIL  C-1

③ CONSTRUCT ASPHALT CONCRETE ONSIDE DRAIN PER  C-1

④ CONSTRUCT TYPE 2 VERTICAL CURB AND GUTTER PER EL COUNTY STD PLAN 104.

⑤ CONSTRUCT CURB RAMP. PER DETAIL  C-1

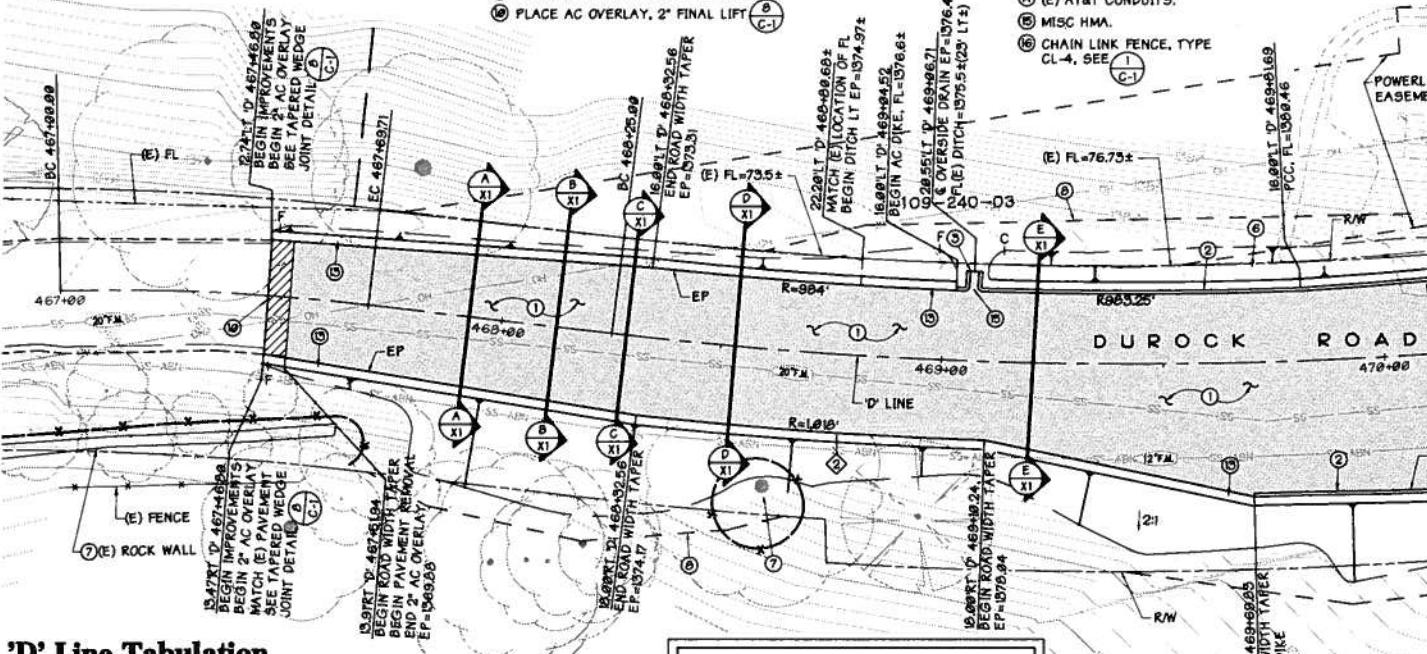
⑥ CONSTRUCT ROADSIDE DITCH PER DETAIL  C-1.

⑦ SURROUND WITH E&A FENCING AND PROTECT IN PLACE.

⑧ SLOPE EASEMENT.

⑨ TEMPORARY CONSTRUCTION EASEMENT.

⑩ PLACE AC OVERLAY. 2" FINAL LIFT  C-1



'D' Line Tabulation

No.	STATIONING	CHORD DIRECTION & Dist	€ Dist	RADIUS	DELTA
1	467+00.88	467+00.71 N 62°47'11" E	69.65	6871	599.89 97.58°
2	467+09.71	468+00.59 N 66°45'50" E	55.29	5529	
3	468+09.59	471+01.08 N 57°26'30" E	524.64	5264.6	1899.89 15°40'30" S
4	471+01.08	472+02.52 N 48°05'51" E	181.18	191.18	
5	472+02.52	476+08.92 N 57°07'01" E	434.27	436.63	1499.89 17°50'41" S

WARNING!!
THE LOCATION AND ELEVATION OF EXISTING
UNDERGROUND UTILITIES SHOWN ON THESE
PLANS ARE APPROXIMATE ONLY. CONTRACTOR TO
VERIFY LOCATION AND ELEVATION OF ALL
EXISTING UNDERGROUND UTILITIES PRIOR TO THE
BEGINNING OF CONSTRUCTION

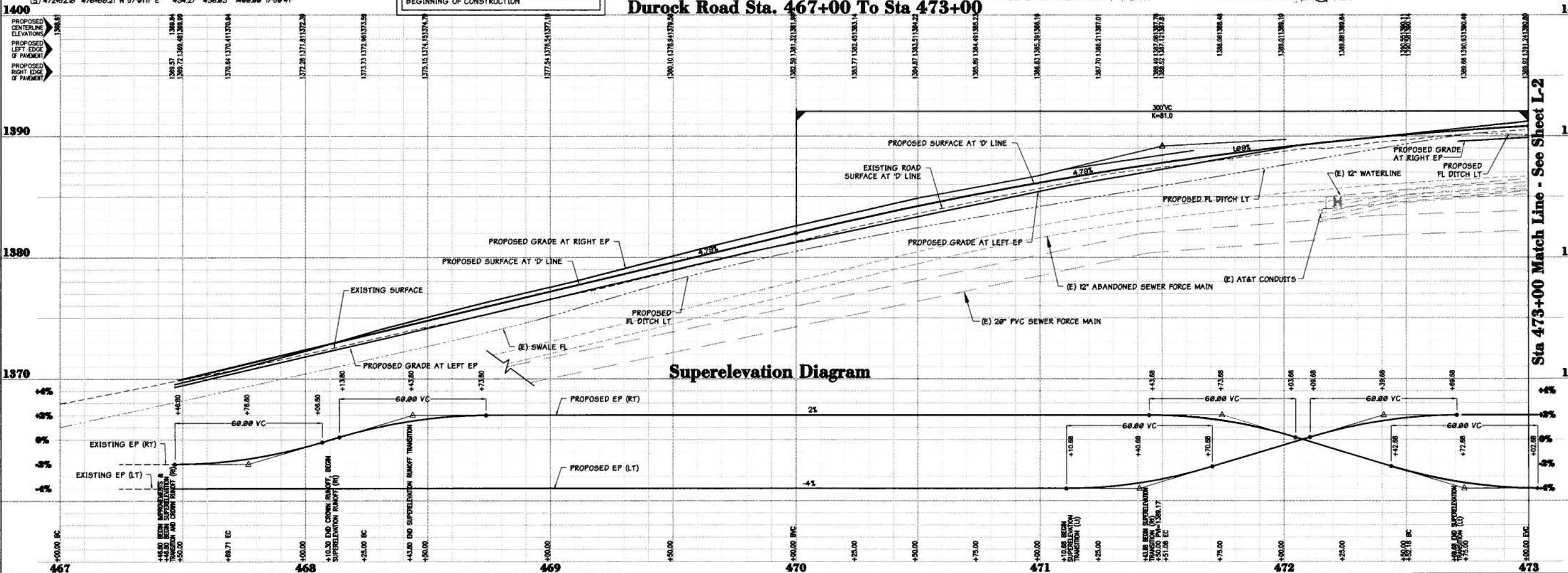
TBC Curve Data @ TBC

No.	RADIUS	DELTA	LENGTH	BC Elev	1/4 PT Elev	2/4 PT Elev	3/4 PT Elev	EC Elev
W	40.00'	79°0'44"	55.21'	1389.86"	1388.75"	1388.56"	1388.25"	1388.00"
	40.00'	100°39'40"	70.27'	1390.10"	1389.70"	1389.39"	1388.65"	1387.39"

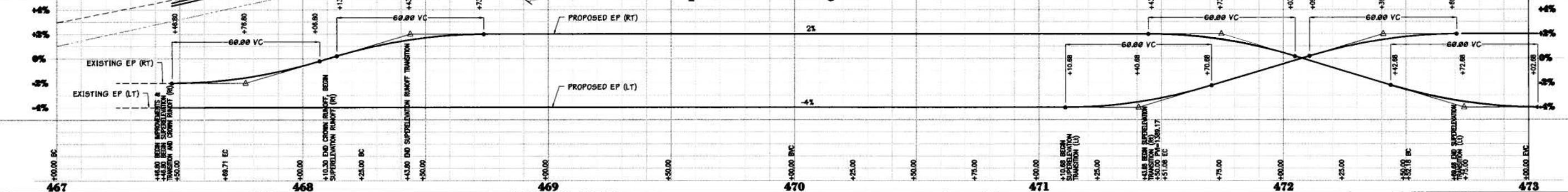
AT&T CONSTRUCTION NOTES



Durock Road Sta. 467+00 To Sta. 473+00



Superelevation Diagram



Sta 473+00 Match Line - See Sheet L-2

**DUROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING
DUROCK ROAD STA 467+00 TO
STA 473+00 IMPROVEMENT PLAN**

 COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	Ownership Information: SUBMITTAL DATE: 05-14-10
--	--

DESIGNED ACRES	DATE
DRAWN ASR	Horiz. SCALE 1"=20'
JOB No.	Vert. SCALE 1"=4'
SHEET	

Construction Notes

① PLACE AC OVERLAY, 2" FINAL LIFT. 18
C-1

② PLACE 6" AC OVER 10.5" CLASS 2 AB, COMPACT ENGINEERED FILL AND SUBGRADE PER CALTRANS STANDARD SPECIFICATION 19-5.03.

③ CONSTRUCT TYPE 'A' AC DIKE. PER DETAIL 4
C-1

④ PLACE 3" AC OVER 8" CLASS 2 AB, COMPACT ENGINEERED FILL AND SUBGRADE PER CALTRANS STANDARD SPECIFICATION 19-5.03.

⑤ CONSTRUCT ROADSIDE DITCH PER DETAIL 8
C-1.

⑥ CONSTRUCT 76 LF OF GUARD RAIL (STD PLAN A77EL TYPE 11B LAYOUT) PER STD PLAN A77C3 DETAIL C, WITH TERMINAL SYSTEM (SRT) PER CT STD PLAN A77L1 & TERMINAL ANCHOR ASSEMBLY (TYPE SFT) PER CT STD PLAN A77H1.

⑦ SLOPE EASEMENT.

⑧ TEMPORARY CONSTRUCTION EASEMENT.

⑨ NOT USED.

⑩ (E) AT&T MANHOLE TO BE RAISED TO GRADE BY AT&T

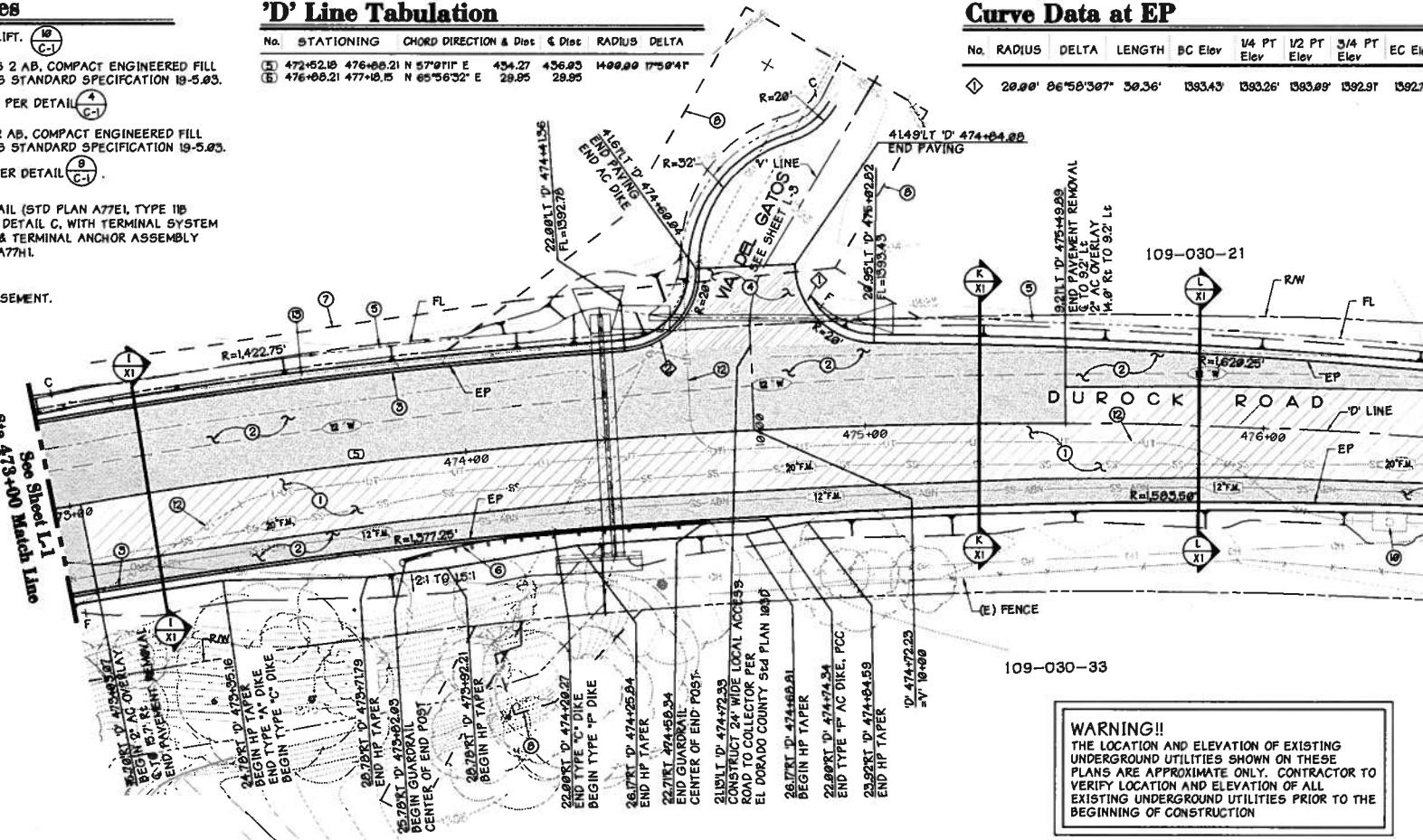
⑪ ESA FENCING SHALL BE PLACED AT THE RW AND OUTSIDE EDGE OF TCE, AND AROUND AREAS INDICATED ON THE PLANS, (INCLUDING CONTRACTOR YARD) TO PROTECT EXISTING TREE.

⑫ (E) AT&T CONDUITS.

⑬ REMOVE EXISTING FENCE.

'D' Line Tabulation

No.	STATIONING	CHORD DIRECTION & Dist	€ Dist	RADIUS	DELTA
5	472+52.10 476+00.21 N 57°07'19" E	434.27	436.03	1400.00	17°50'41"
	476+00.21 477+18.16 N 56°55'19" E	20.05	20.05		



Curve Data at EP

No.	RADIUS	DELTA	LENGTH	BC Elev	1/4 PT Elev	1/2 PT Elev	3/4 PT Elev	EC E
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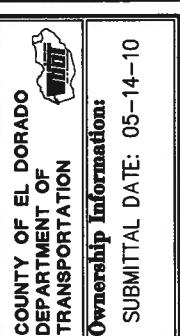
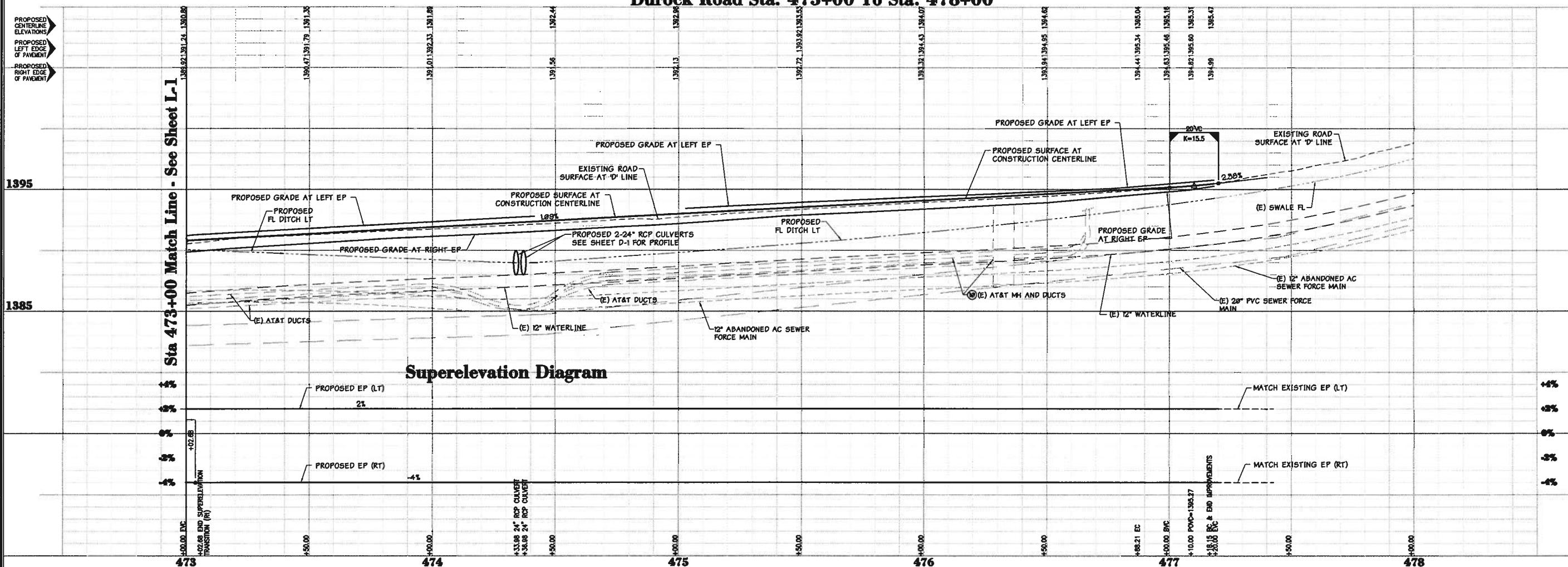
No	RADIUS	DELTA	LENGTH	BC Elev	1/4 PT Elev	1/2 PT Elev	3/4 PT Elev	EC Elev
----	--------	-------	--------	---------	-------------	-------------	-------------	---------



Revisions	SYM	DESCRIPTION	DATE	BY
	▲	▲	▲	▲

**DURROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING**

DUROCK ROAD SIA 473+00 10 SIA 478+00 IMPROVEMENT PLAN

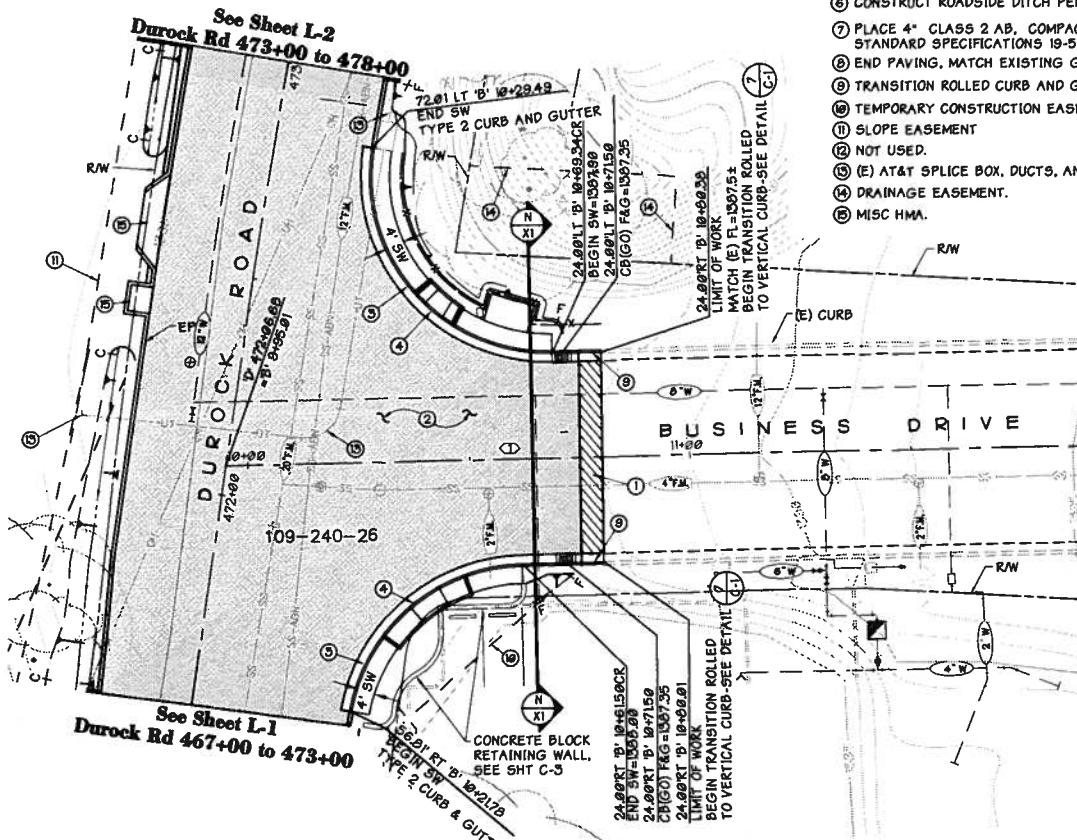


DESIGNED	DATE
ACR/RES	
DRAWN	Horz. SCALE
ASR	1" = 20'
JOB NO.	Vert. SCALE
	1" = 4'



'B' Line Tabulation

No.	STATIONING	CHORD DIRECTION & Dist	Dist	RADIUS	DELTA
1	10+00.00	12+71.40	5 51'34" E	27140	



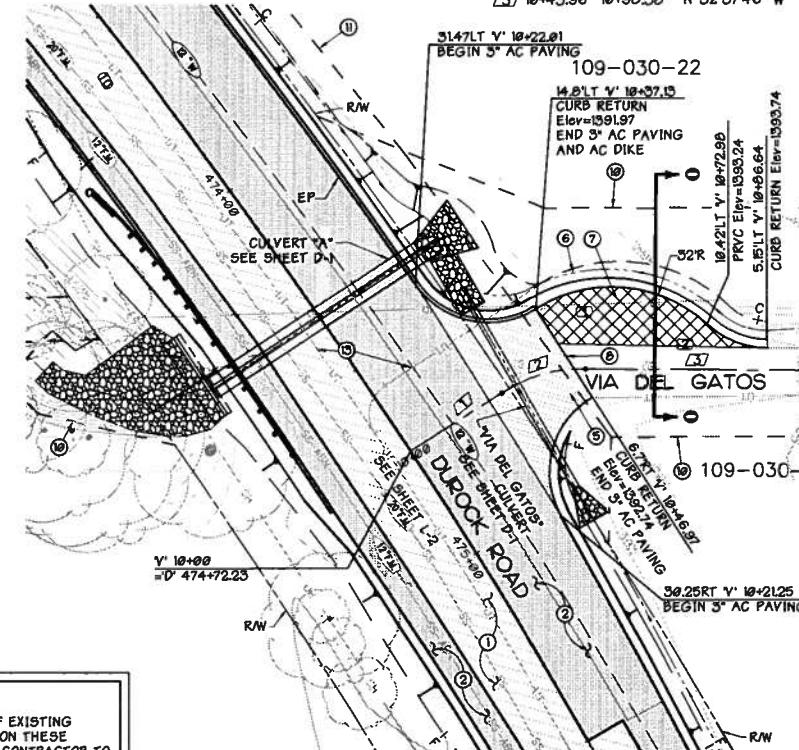
Construction Notes

- ① PLACE AC OVERLAY, 2" FINAL LIFT AND 1" MIN LEVEL COURSE.
- ② PLACE 6" AC OVER 10.5" CLASS 2 AB, COMPACT ENGINEERED FILL AND SUBGRADE PER CALTRANS STANDARD SPECIFICATION 19-5-03.
- ③ CONSTRUCT TYPE 2 VERTICAL CURB AND GUTTER PER EL DORADO COUNTY STD PLAN 104.
- ④ CONSTRUCT CURB RAMP. PER DETAIL 2 C-1.
- ⑤ PLACE 3" AC OVER 8" CLASS 2 AB, COMPACT ENGINEERED FILL AND SUBGRADE PER CALTRANS STANDARD SPECIFICATION 19-5-03.
- ⑥ CONSTRUCT ROADSIDE DITCH PER DETAIL 8 C-1.
- ⑦ PLACE 4" CLASS 2 AB, COMPACT ENGINEERED FILL PER CALTRANS STANDARD SPECIFICATIONS 19-5-03.
- ⑧ END PAVING. MATCH EXISTING GROUND.
- ⑨ TRANSITION ROLLED CURB AND GUTTER TO VERTICAL CURB
- ⑩ TEMPORARY CONSTRUCTION EASEMENT
- ⑪ SLOPE EASEMENT
- ⑫ NOT USED.
- ⑬ (E) AT&T SPLICE BOX, DUCTS, AND MANHOLE.
- ⑭ DRAINAGE EASEMENT.
- ⑮ MISC HMA.

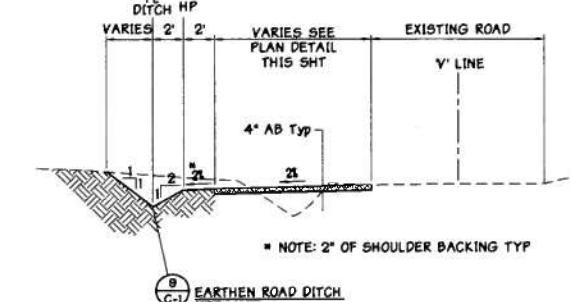


Curve Data

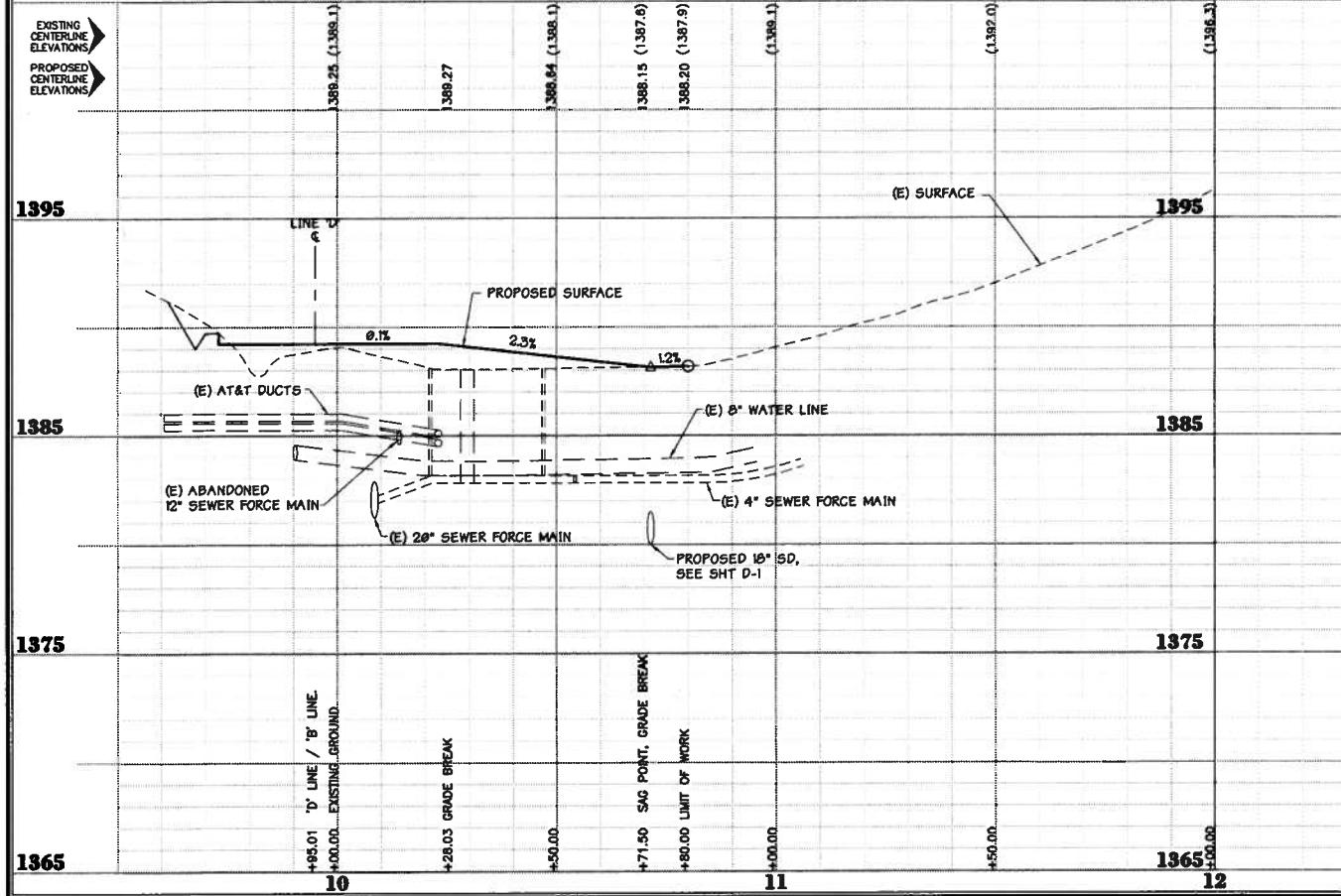
No.	STATIONING	CHORD DIRECTION & Dist	Dist	RADIUS	DELTA
1	9+50.00	9+92.30 N 05°14'13" E	39.28	42.30	32.00 75°43'35"



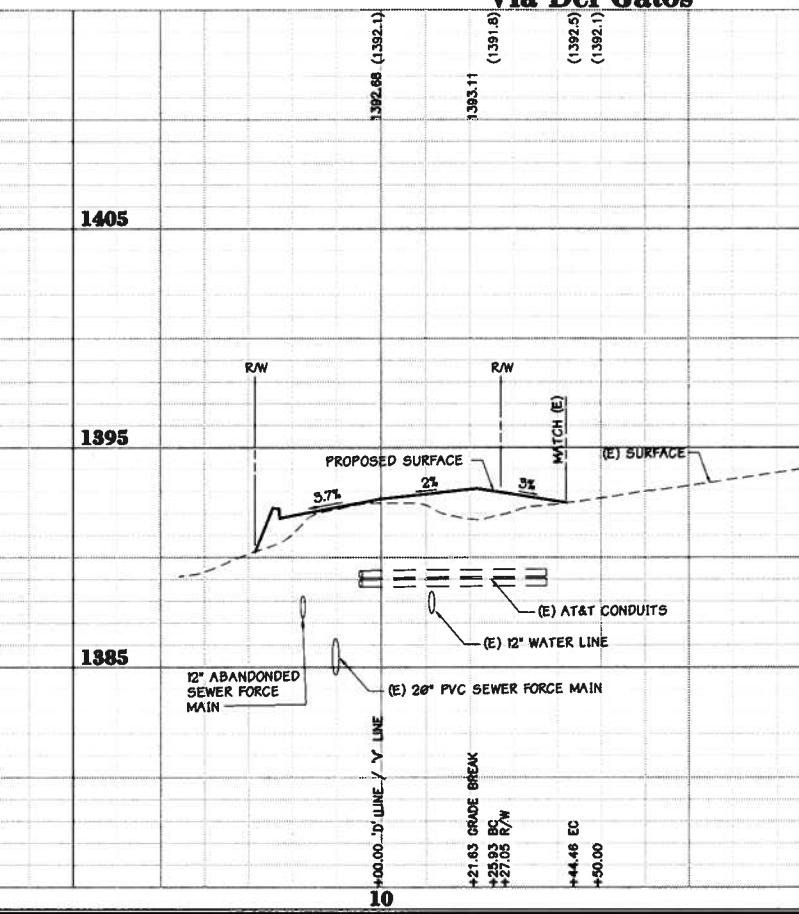
Section 0-0 Via Del Gatos



Business Drive Sta. 10+00 To 12+00

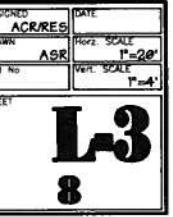


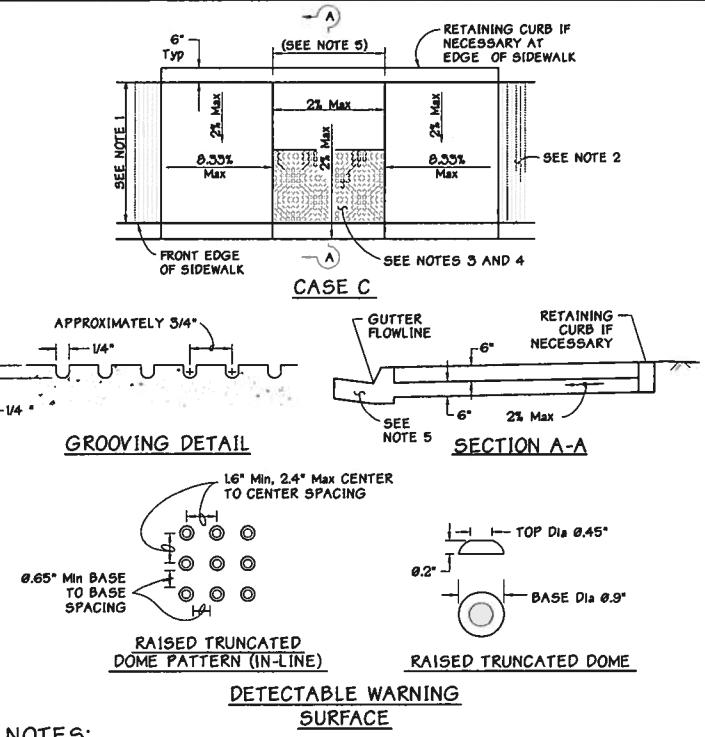
Via Del Gatos



**DUBROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING
BUSINESS DRIVE STA 10+00 TO STA 12+00,
VIA DEL GATOS IMPROVEMENT PLAN**

 COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	Ownership Information:
	SUBMITTAL DATE: 05-14-10

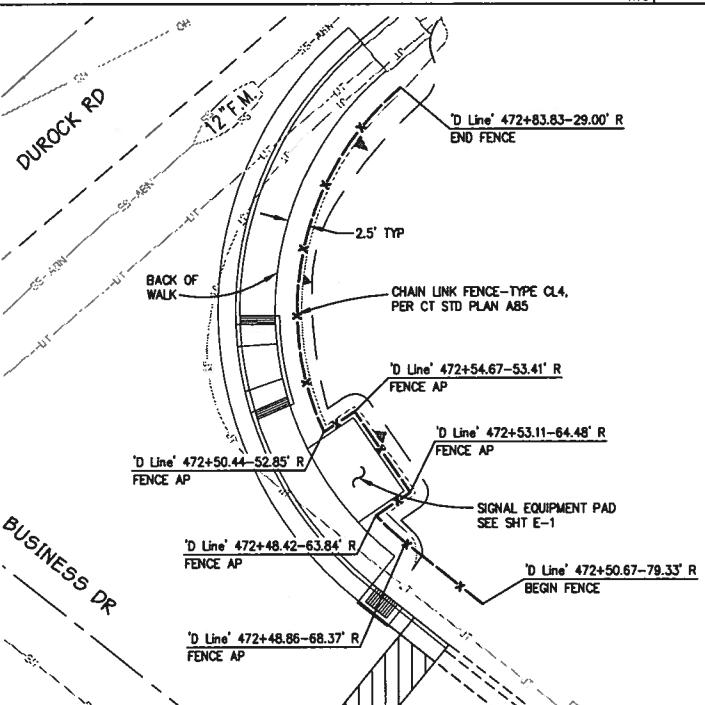




NOTES:

1. THE RAMP SHALL HAVE A 12' WIDE BORDER WITH 1/4" GROOVES APPROXIMATELY 3/4" ON CENTER. SEE GROOVING DETAIL.
2. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE CURB RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE DETAILS ON THIS PLAN AND THE REQUIREMENTS IN THE SPECIAL PROVISIONS.
3. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE.
4. MAXIMUM SLOPES OF ADJOINING GUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP OR ACCESSIBLE ROUTE SHALL NOT EXCEED 5 PERCENT WITHIN 4'-0" OF THE TOP AND BOTTOM OF THE CURB RAMP.
5. LANDING WIDTH FOR PEDESTRIAN RAMP LOCATED ON SOUTH WEST CORNER OF DUROCK ROAD AND BUSINESS PARK DRIVE SHALL BE A MINIMUM OF 7' TO ALLOW ACCESS TO PEDESTRIAN PUSH BUTTON LOCATED ON SIGNAL POLE. LANDING WIDTH FOR PEDESTRIAN RAMP LOCATED ON SOUTH EAST CORNER OF DUROCK ROAD AND BUSINESS PARK DRIVE SHALL BE A MINIMUM OF 5'.

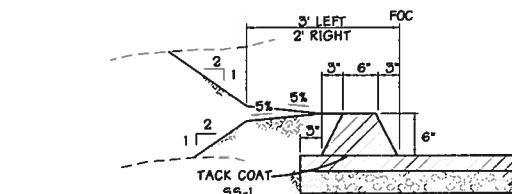
Caltrans Standard A88A Case C



Chain Link Fence (Type CL-4) Detail

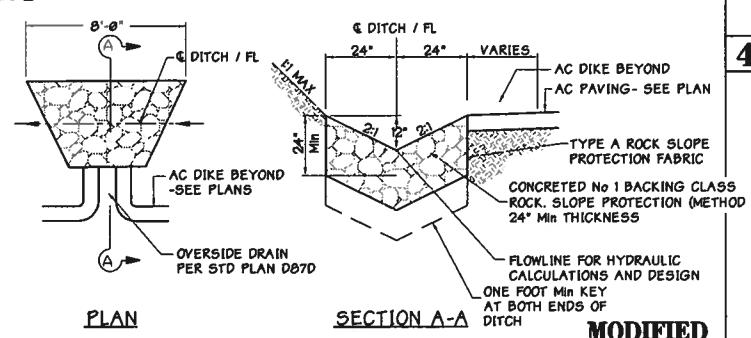
NTS 1

NOTES:
1. ASPHALT CONCRETE SHALL BE CLASS 'B' PER CALTRANS SPECIFICATIONS SECTION 39.
- SEE GENERAL NOTE PAGE.
2. AC DIKE TO BE USED WHERE EXISTING CONDITIONS WARRANT. TO BE USED WITH COUNTY ENGINEER'S APPROVAL.



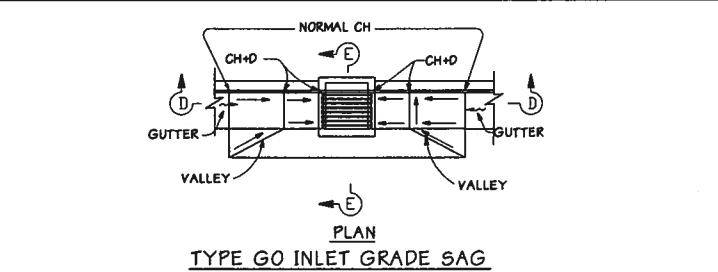
MODIFIED
EDC 104

Type "A" A.C. Dike

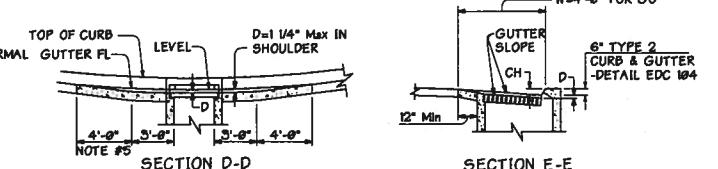


MODIFIED
EDC 118

Rock Lined Ditch



TYPE GO INLET GRADE SAG



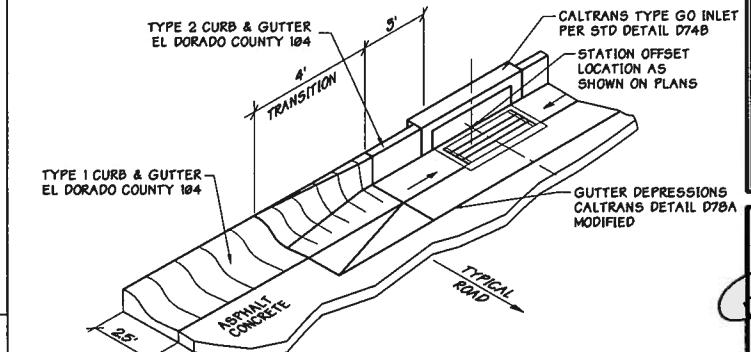
NOTES:

1. W= WIDTH OF DEPRESSED APRON. DEPRESSED APRONS SHALL BE 4'-0" ON SHOULDER AND 4'-0" IN CITY STREET GUTTERS UNLESS OTHERWISE SHOWN.
2. GUTTER DEPRESSION. THE GUTTER DEPRESSION SHALL BE 1 1/4" FOR SHOULDER AND 1 1/4" IN CITY STREET GUTTER OR LOCATIONS OUTSIDE OF SHOULDER UNLESS OTHERWISE SHOWN.
3. CH= CURB HEIGHT.
→= STRAIGHT GRADE, DOWNWARD SLOPE.
↔= GUTTER OR SHOULDERS DIRECTION OF FLOW.
4. GUTTER DEPRESSIONS SHALL BE 8" THICK.
5. ESTABLISH CURB OPENING HEIGHT AT POINT OF GRATE.
6. DETAILS SHOWN FOR PORTLAND CEMENT CONCRETE PAVEMENT. WHEN ASPHALT CONCRETE PAVEMENT IS USED, CORNERS TO BE CUT OFF AS SHOWN ON DETAIL OF ASPHALT CONCRETE PAVEMENT.
7. 4' TRANSITION FROM STD EDC TYPE 1 ROLLED CURB & GUTTER TO STD EDC TYPE 2 VERTICAL CURB & GUTTER.

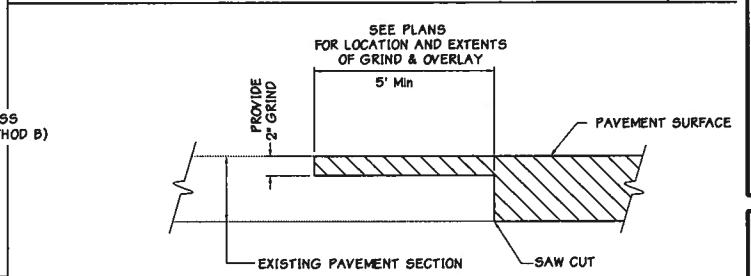
MODIFIED
CALTRANS D78A

Gutter Depressions

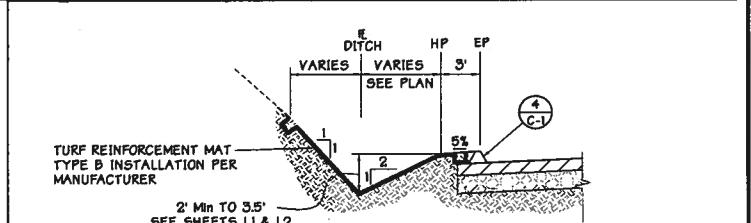
NTS 6



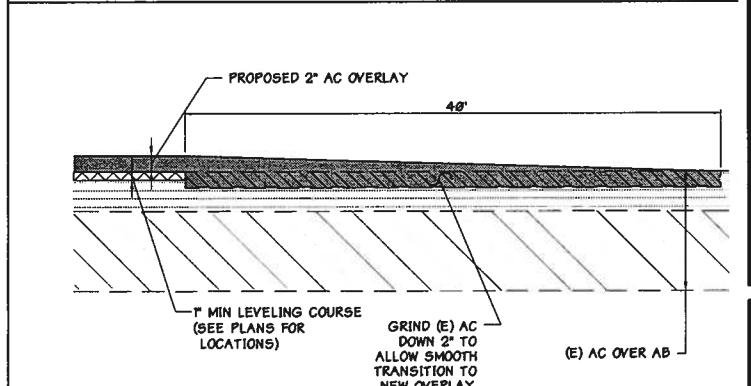
4' Curb Transition Detail



Tapered Wedge Joint Detail



Earthen Road Ditch



AC Overlay Transition Detail

NTS 10

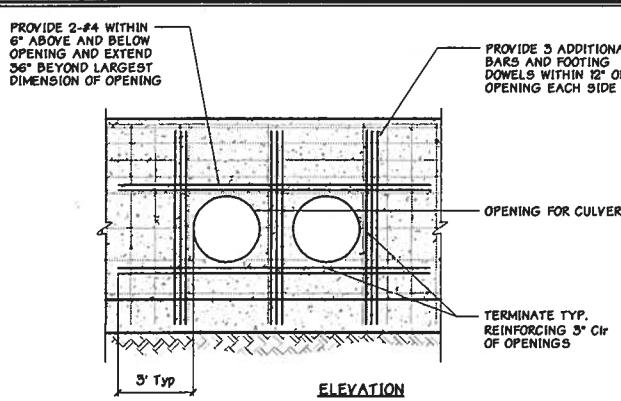
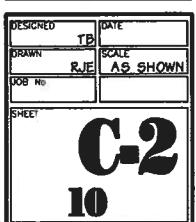
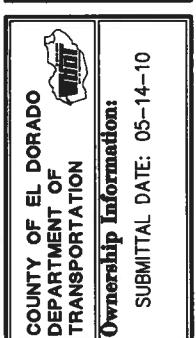
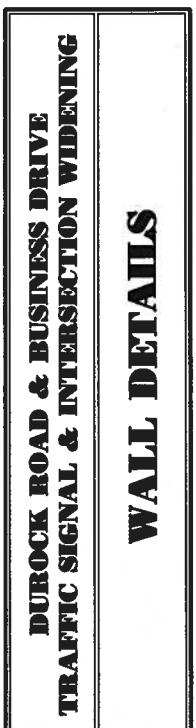
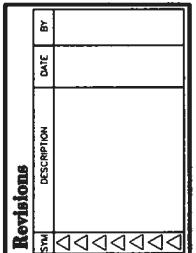
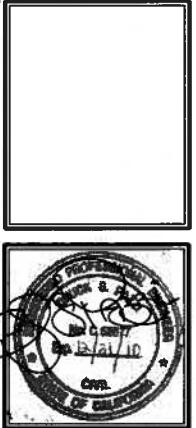
DUROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING

DETAILS

COUNTY OF EL DORADO
DEPARTMENT OF
TRANSPORTATION
Ownership Information:
SUBMITTAL DATE: 05-14-10

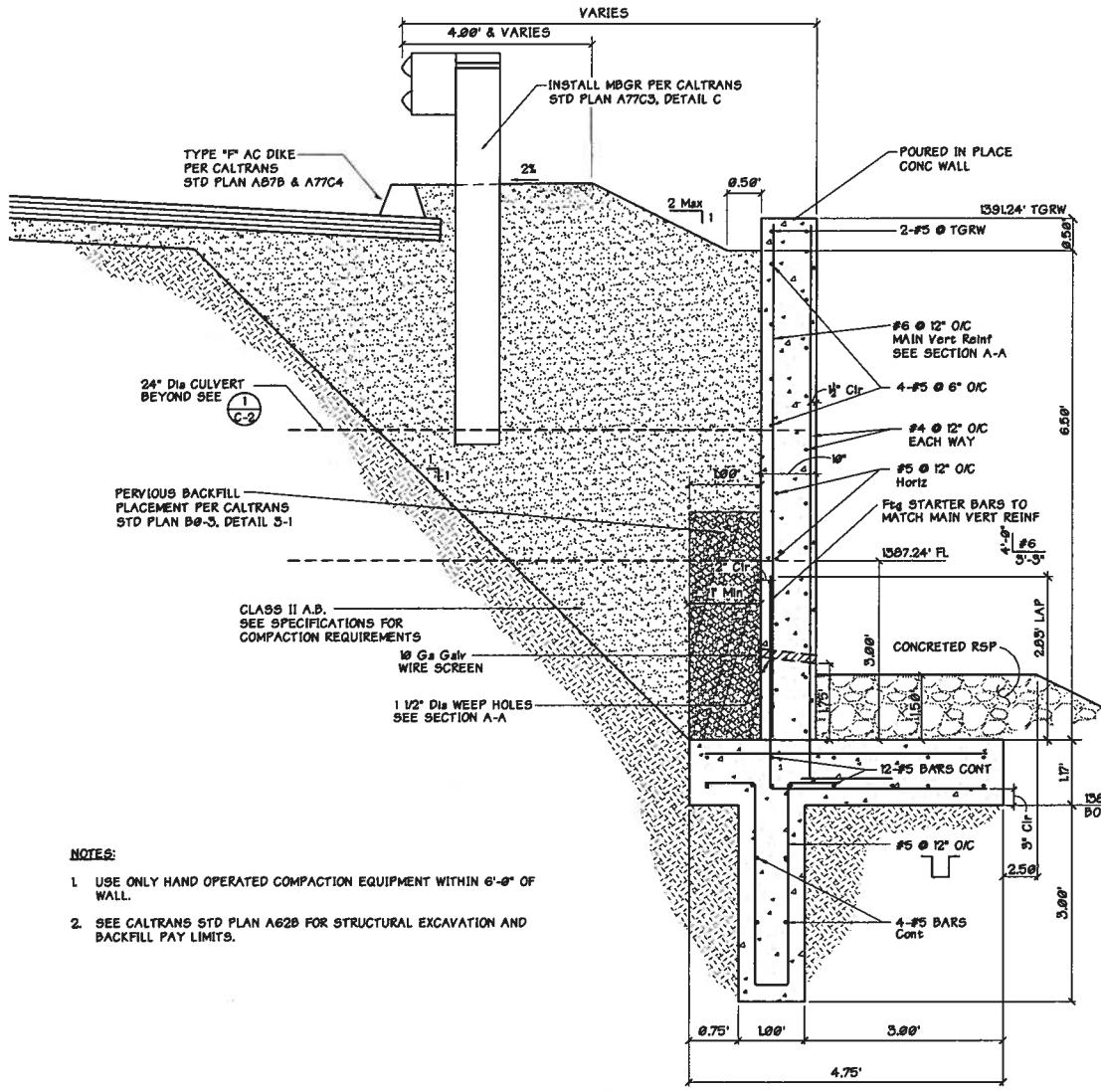
DESIGNED
ACRES
DRAWN
ASR
DOS No
Vert. Scale
N/A
SHEET

C-1
9

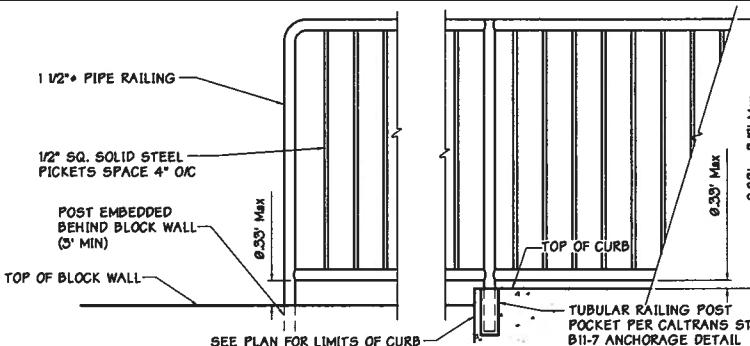


Culvert Openings (Front and Back Face) N.T.S. 1 Rebar Hooks and Bend

2 Tubular Metal Railing layout Detail

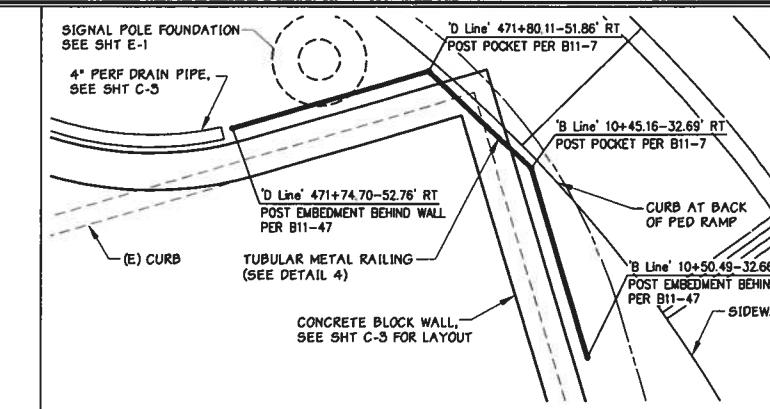


Headwall Section B-B

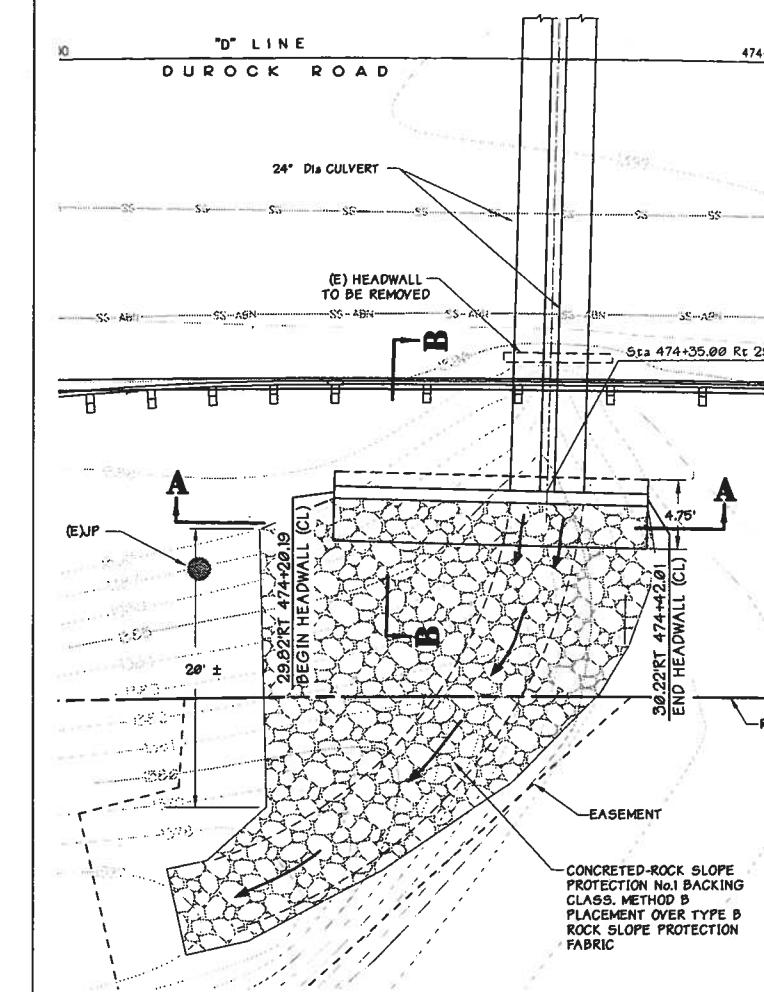


Tubular Metal Railing Fabrication Detail

NTS **4** **Section A-**



6 Concrete Stone Block Retaining Wall Section

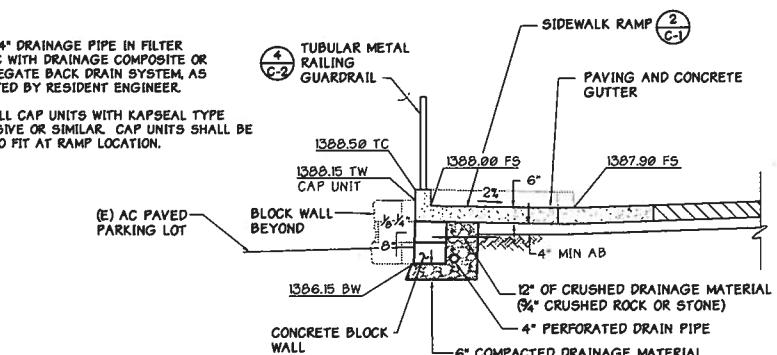


Enlarged Concrete Stone Block Retaining Wall Plan

Dimensioned Enlarged Concrete Stone Block Retaining Wall Plan 7B

1

1. WRAP 4" DRAINAGE PIPE IN FILTER FABRIC WITH DRAINAGE COMPOSITE OR AGGREGATE BACK DRAIN SYSTEM, AS DIRECTED BY RESIDENT ENGINEER.
2. INSTALL CAP UNITS WITH KAPSEL TYPE ADHESIVE OR SIMILAR. CAP UNITS SHALL BE CUT TO SIZE AT GRADE LOCATION.



Tubular Metal Railing Fabrication Detail

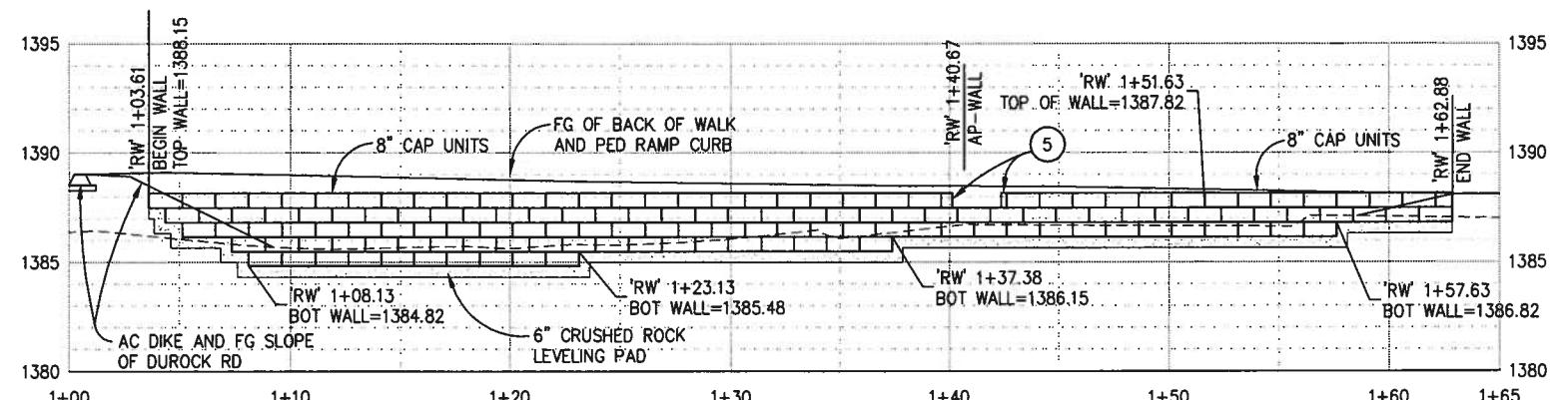
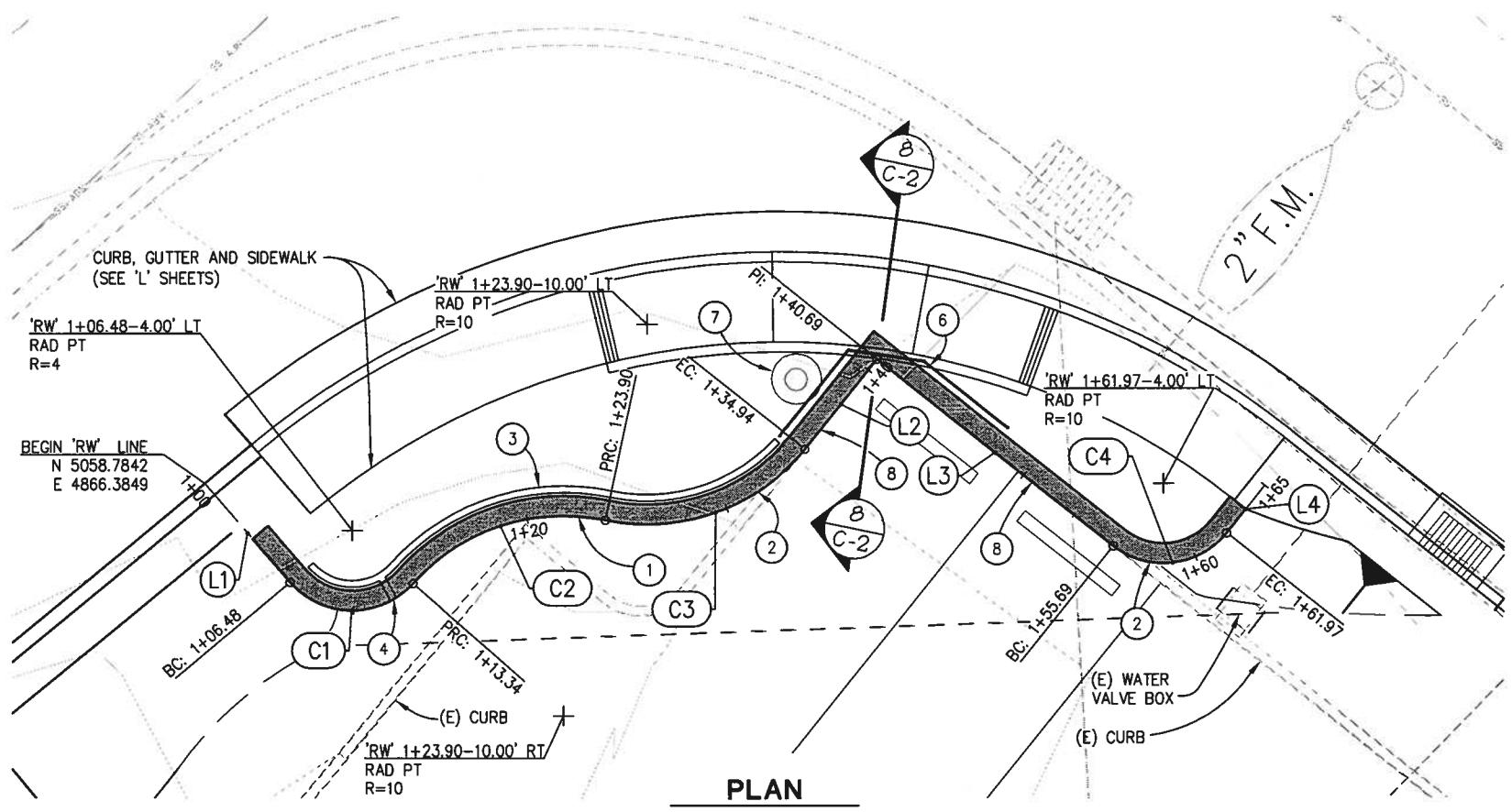
NTS **4** **Section A-**

6 Concrete Stone Block Retaining Wall Section

'RW' LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	6.48		S 40° 22' 12" E	
C1	6.86	4.00	S 89° 28' 21" E - 6.05	98° 12' 17"
C2	10.56	10.00	N 71° 40' 37" E - 10.08	60° 30' 13"
C3	11.04	10.00	N 70° 17' 58" E - 10.49	63° 15' 30"
L2	5.75		N 38° 40' 13" E	
L3	15.00		S 51° 33' 55" E	
C4	6.28	4.00	N 83° 26' 05" E - 5.66	90° 00' 00"
L4	3.03		N 38° 26' 05" E	

CONSTRUCTION NOTES:

- ① — CONCRETE BLOCK WALL: KEYSTONE, VERSA-LOK, OR EQUIVALENT. LOL OF RETAINING WALL IS FACE OF BOTTOM COURSE.
- ② — SAWCUT AND REMOVE EXISTING CURB FROM STA 'RW' 1+31.75 TO 'RW' 1+57.75. RECONSTRUCT CURB FLUSH TO FACE OF BLOCK WALL AT EACH END.
- ③ — 4" FLEXIBLE PERF DRAIN PIPE, S=0.020. STA 'RW' 1+06.00± TO 'RW' 1+34.50±.
- ④ — PROVIDE OPENING THROUGH BLOCK WALL FOR DRAIN PIPE. PLACE RODENT SCREEN AT EACH TERMINAL END.
- ⑤ — CAP UNITS LOCATED IMMEDIATELY BEHIND SIDEWALK CURB WILL BE PLACED AFTER SIDEWALK AND CURB ARE CONSTRUCTED, AND WILL BE SAWCUT TO ABUT DIRECTLY AGAINST BACK OF SIDEWALK CURB.
- ⑥ — TUBULAR METAL RAILING. SEE DETAIL 4A, SHT C-2.
- ⑦ — SIGNAL POLE FOUNDATION. SEE SHT E-1.
- ⑧ — IF ADJACENT PARKING LOT IS DAMAGED DURING CONCRETE STONE BLOCK RETAINING WALL CONSTRUCTION, THE CONTRACTOR SHALL SAWCUT AND REPLACE EXISTING DAMAGED PARKING LOT WITH 3" HMA (A) OVER 8" AB (CLASS 2). SAWCUT SHALL RUN CONTINUOUSLY PARALLEL WITH THE FACE OF THE NEW STONE BLOCK RETAINING WALL.



PROFILE

SCALE: 1"=4' H, V

1 CONCRETE STONE BLOCK RETAINING WALL

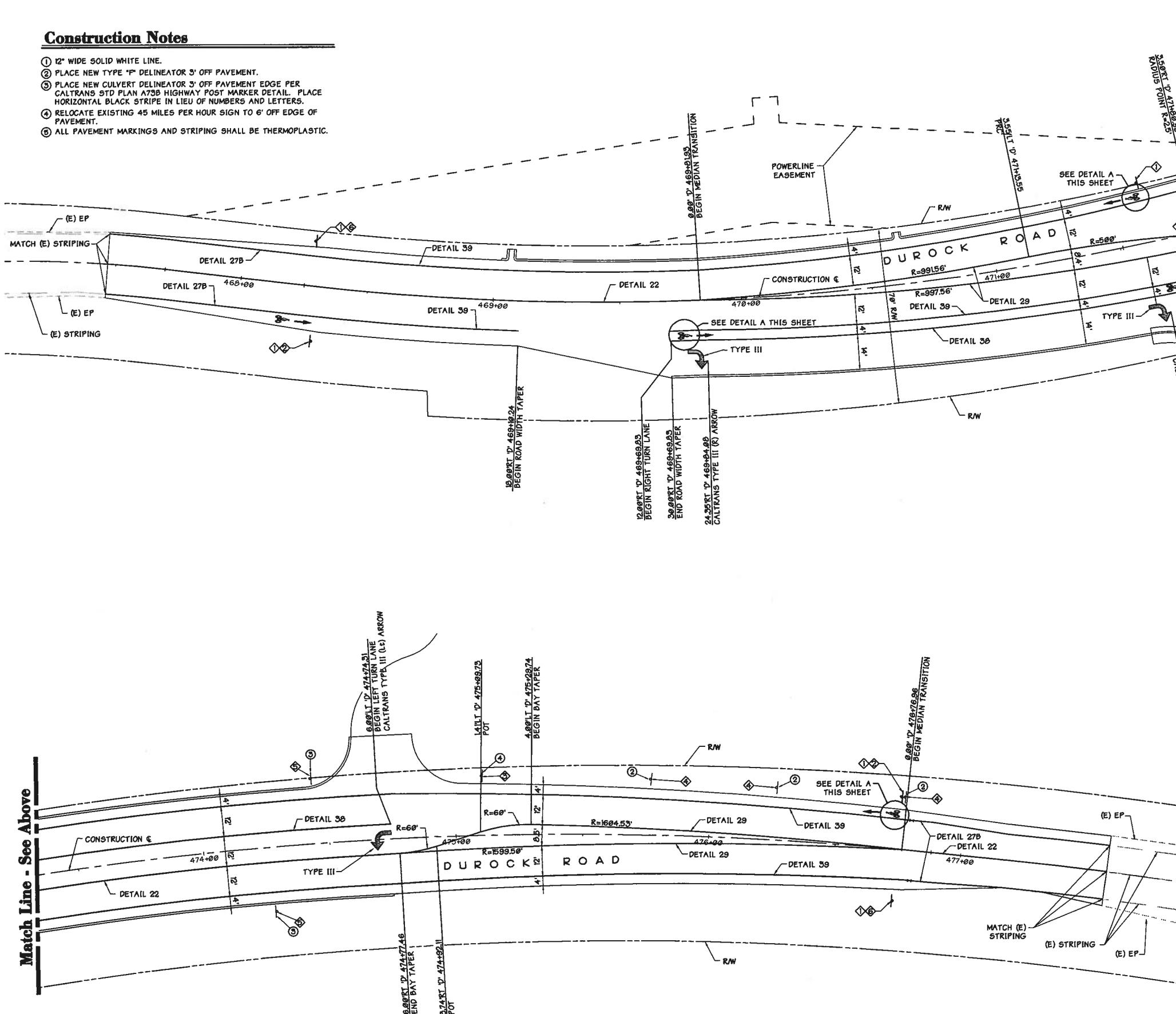
DUROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING

WALL DETAILS

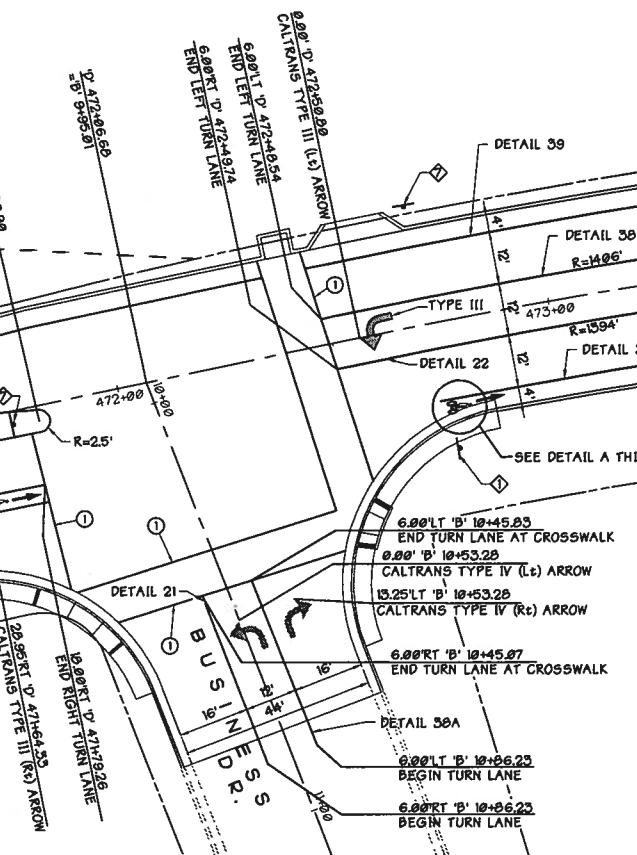
COUNTY OF EL DORADO
DEPARTMENT OF
TRANSPORTATION
Ownership Information:
SUBMITTAL DATE: 05-14-10

DESIGNED BY: SGM
DRAWN BY: SGM
JOB No:
SHEET

C-3
II

Match Line - See Above**Construction Notes**

- ① 12' WIDE SOLID WHITE LINE.
- ② PLACE NEW TYPE "F" DELINEATOR 3' OFF PAVEMENT.
- ③ PLACE NEW CULVERT DELINEATOR 3' OFF PAVEMENT EDGE PER CALTRANS STD PLAN A73B HIGHWAY POST MARKER DETAIL. PLACE HORIZONTAL BLACK STRIPE IN LIEU OF NUMBERS AND LETTERS.
- ④ RELOCATE EXISTING 45 MILES PER HOUR SIGN TO 6' OFF EDGE OF PAVEMENT.
- ⑤ ALL PAVEMENT MARKINGS AND STRIPING SHALL BE THERMOPLASTIC.

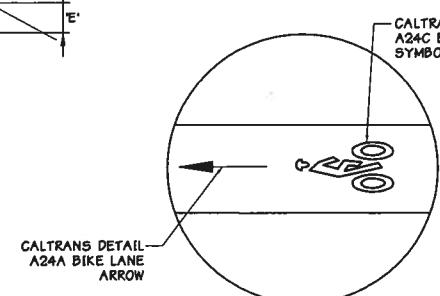
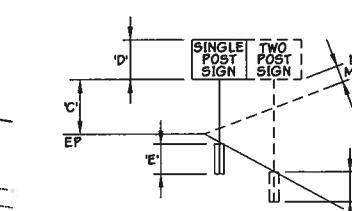
Match Line - See Below

DUROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING

SIGNING & STRIPING PLAN**ROADSIDE SIGN QUANTITIES**

SHEET No.	SIGN No.	CODE	ROADSIDE SIGN						REMARKS
			ONE POST	TWO POST	RELOCATE	REMOVE	INSTALL ROAD SIDE SIGN	INATED WOOD BOX POST	
S1	R81		5						
S1	R81A		2						
S1	R2		1		X				
S1	TYPE "F" DELINEATOR	5							
S1	CULVERT DELINEATOR	2							
S1	R81B		2						
S1	R5-2		2						

NOTE:
EXACT LOCATION AND POSITION OF ROADSIDE SIGNS
TO BE DETERMINED BY THE ENGINEER.

**Detail A**

COUNTY OF EL DORADO
DEPARTMENT OF
TRANSPORTATION
Ownership Information:
SUBMITTAL DATE: 05-14-10

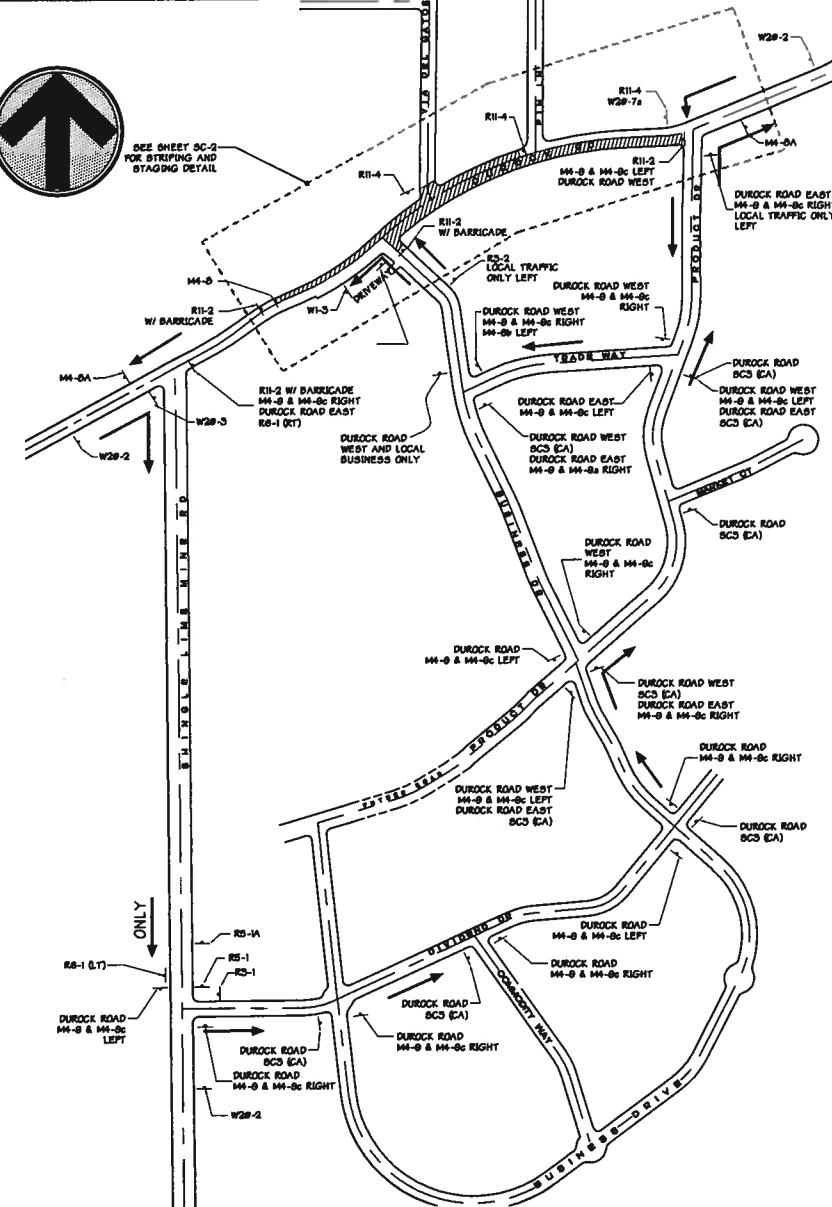
DESIGNED
A&G
DRAWN
ASR
JOB No.
SHEET
13

DATE
Horz. SCALE
1"=20'
Vert. SCALE
N/A



Revisions	DESCRIPTION	DATE
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1		
2		
3		
4		
5		
6		
7		
8		
9		

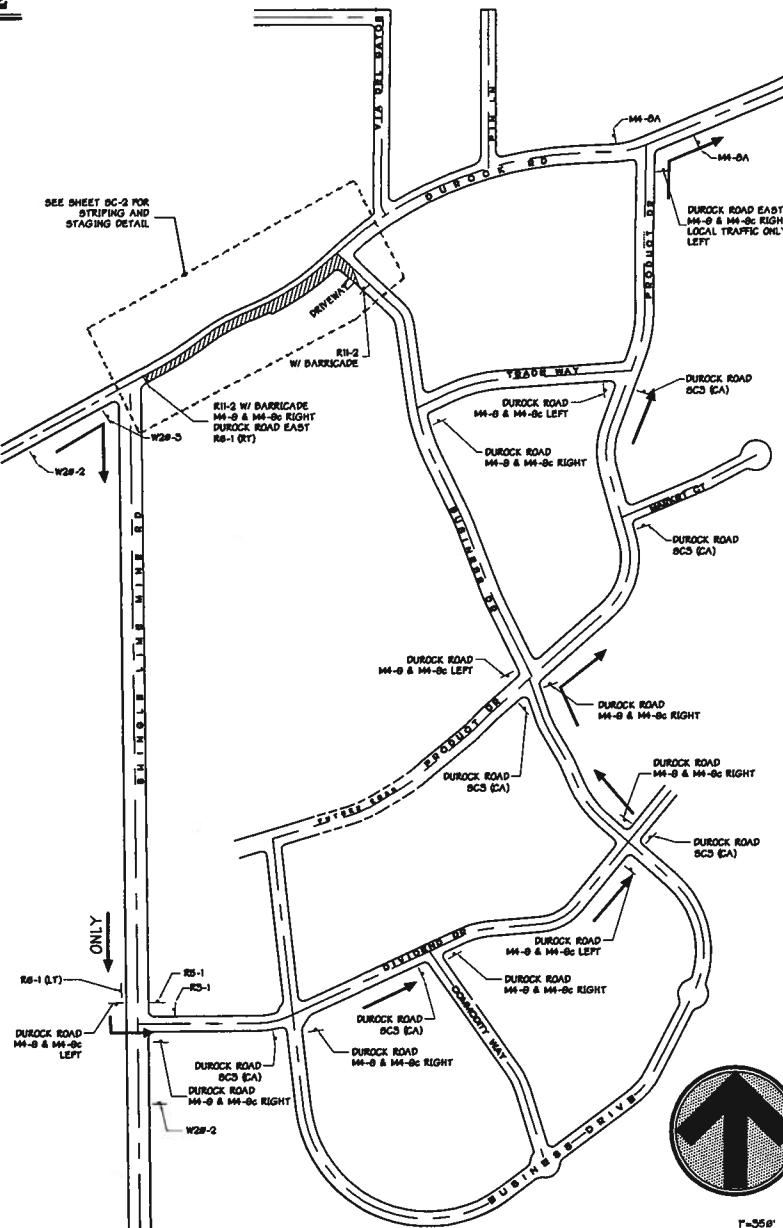
Detour Plan Stage 1



Stage 1 Construction Notes

1. DURING THIS STAGE, CONTRACTOR MUST MAINTAIN ACCESS TO ALL BUSINESSES AT ALL TIMES.
2. DURING THIS STAGE CONTRACTOR SHALL REMOVE (E) PAVEMENT SECTION, BASE AND REGRADE, PREPARE NEW SUBGRADE AND INSTALL 4" OF AC AND LEVELING COURSE, WHERE APPLICABLE.
3. REFER TO "MAINTAINING TRAFFIC" SECTION OF SPECIAL PROVISIONS FOR ALLOWABLE CONSTRUCTION HOURS AND TRAFFIC LANE RESTRICTIONS.
4. ALL SIGNS, BARRIERS, AND CHANNELIZE DEVICES USED DURING NIGHTTIME SHALL BE EITHER RETRO-REFLECTIVE WITH A SMOOTH, SEALED OUTER SURFACE OR LUMINATED TO SHOW THE SAME SHAPE AND SIMILAR COLOR FOR BOTH DAY AND NIGHT.
5. DURING THIS STAGE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO RESIDENTS OF VIA DEL GATOS AND PIN LANE A MIN. 10' WIDE COMPACTED AB UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. DURING THIS STAGE, CONTRACTOR SHALL USE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) TO WARN TRAILERS AND LARGE TRUCKS ABOUT THE DETOUR ON Durock Road. CONTRACTOR SHALL PLACE A PCMS ON HWY. 58 (EB) BEFORE THE CAMERON PARK RD RAMP TO DIRECT TRAILERS AND LARGE TRUCKS TO USE THE PONDEROSA RD RAMP TO ACCESS Durock Rd. ANOTHER PCMS SHALL BE PLACED ON HWY. 58 (WB) BEFORE THE PONDEROSA RD RAMP TO DIRECT TRAILERS AND LARGE TRUCKS TO USE PONDEROSA RD TO ACCESS Durock Rd. ANOTHER PCMS SHALL BE PLACED ON CAMERON PARK DRIVE @ COACH LANE TO DIRECT TRAILERS AND LARGE TRUCKS TO USE PONDEROSA RD TO ACCESS BARNETT BUSINESS PARK. CONTRACTOR SHALL CONFORM WITH THE SPECIFICATIONS ON SECTION 6F55 "PORTABLE CHANGEABLE MESSAGE SIGNS" IN THE MUTCD AND THE SPECIAL PROVISIONS. SEE ENGINEER FOR COUNTY COPY OF PCMS ENCROACHMENT PERMIT FROM CALTRANS. CONTRACTOR TO ALSO OBTAIN PCMS ENCROACHMENT PERMIT FROM CALTRANS.
7. CONTRACTOR SHALL INSTALL ALL UNDERGROUND FACILITIES, INCLUDING: STORM DRAIN REPLACEMENT, SIGNAL CONDUITS, SIGNAL FOUNDATION.
8. ANY OPEN TRENCH SHALL BE SHORED UP AND PLATED EACH WORK DAY BEFORE LEAVING JOB SITE. RECESSED SKID-RESISTANT TRENCH PLATES SHALL BE USED.
9. STAGE 1: ALLOW BUSINESS DRIVE NB TRAFFIC TO WB Durock Road ONLY.

Detour Plan Stage 2



Stage 2 Construction Notes

1. DURING THIS STAGE, CONTRACTOR MUST MAINTAIN ACCESS TO ALL BUSINESSES AT ALL TIMES.
2. DURING THIS STAGE CONTRACTOR SHALL REMOVE (E) PAVEMENT SECTION, BASE AND REGRADE, PREPARE NEW SUBGRADE AND INSTALL 4" OF AC, WHERE APPLICABLE.
3. REFER TO "MAINTAINING TRAFFIC" SECTION OF SPECIAL PROVISIONS FOR ALLOWABLE CONSTRUCTION HOURS AND TRAFFIC LANE RESTRICTIONS.
4. ALL SIGNS, BARRIERS, AND CHANNELIZE DEVICES USED DURING NIGHTTIME SHALL BE EITHER RETRO-REFLECTIVE WITH A SMOOTH, SEALED OUTER SURFACE OR LUMINATED TO SHOW THE SAME SHAPE AND SIMILAR COLOR FOR BOTH DAY AND NIGHT.
5. DURING THIS STAGE, CONTRACTOR SHALL PROVIDE SAFE ACCESS TO RESIDENTS OF VIA DEL GATOS AND PIN LANE A MIN. 10' WIDE COMPACTED AB UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. DURING THIS STAGE, CONTRACTOR SHALL USE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) TO WARN TRAILERS AND LARGE TRUCKS ABOUT THE DETOUR ON Durock Road. CONTRACTOR SHALL PLACE A PCMS ON HWY. 58 (EB) BEFORE THE CAMERON PARK RD RAMP TO DIRECT TRAILERS AND LARGE TRUCKS TO USE THE PONDEROSA RD RAMP TO ACCESS Durock Rd. ANOTHER PCMS SHALL BE PLACED ON HWY. 58 (WB) BEFORE THE PONDEROSA RD RAMP TO DIRECT TRAILERS AND LARGE TRUCKS TO USE PONDEROSA RD TO ACCESS Durock Rd. ANOTHER PCMS SHALL BE PLACED ON CAMERON PARK DRIVE @ COACH LANE TO DIRECT TRAILERS AND LARGE TRUCKS TO USE PONDEROSA RD TO ACCESS BARNETT BUSINESS PARK. CONTRACTOR SHALL CONFORM WITH THE SPECIFICATIONS ON SECTION 6F55 "PORTABLE CHANGEABLE MESSAGE SIGNS" IN THE MUTCD AND THE SPECIAL PROVISIONS. SEE ENGINEER FOR COUNTY COPY OF PCMS ENCROACHMENT PERMIT FROM CALTRANS. CONTRACTOR TO ALSO OBTAIN PCMS ENCROACHMENT PERMIT FROM CALTRANS.
7. CONTRACTOR SHALL INSTALL ALL UNDERGROUND FACILITIES, INCLUDING: STORM DRAIN REPLACEMENT, SIGNAL CONDUITS, SIGNAL FOUNDATION, ETC.
8. ANY OPEN TRENCH SHALL BE SHORED UP AND PLATED EACH WORK DAY BEFORE LEAVING JOB SITE. RECESSED SKID-RESISTANT TRENCH PLATES SHALL BE USED.
9. STAGE 2: ALLOW BUSINESS DRIVE NB TRAFFIC TO EB Durock Road ONLY.

Legend

- ↑ TEMPORARY SIGN
- ← DIRECTION OF TRAVEL
- ▨ INDICATES WORK AREA FOR EACH CONSTRUCTION PHASE

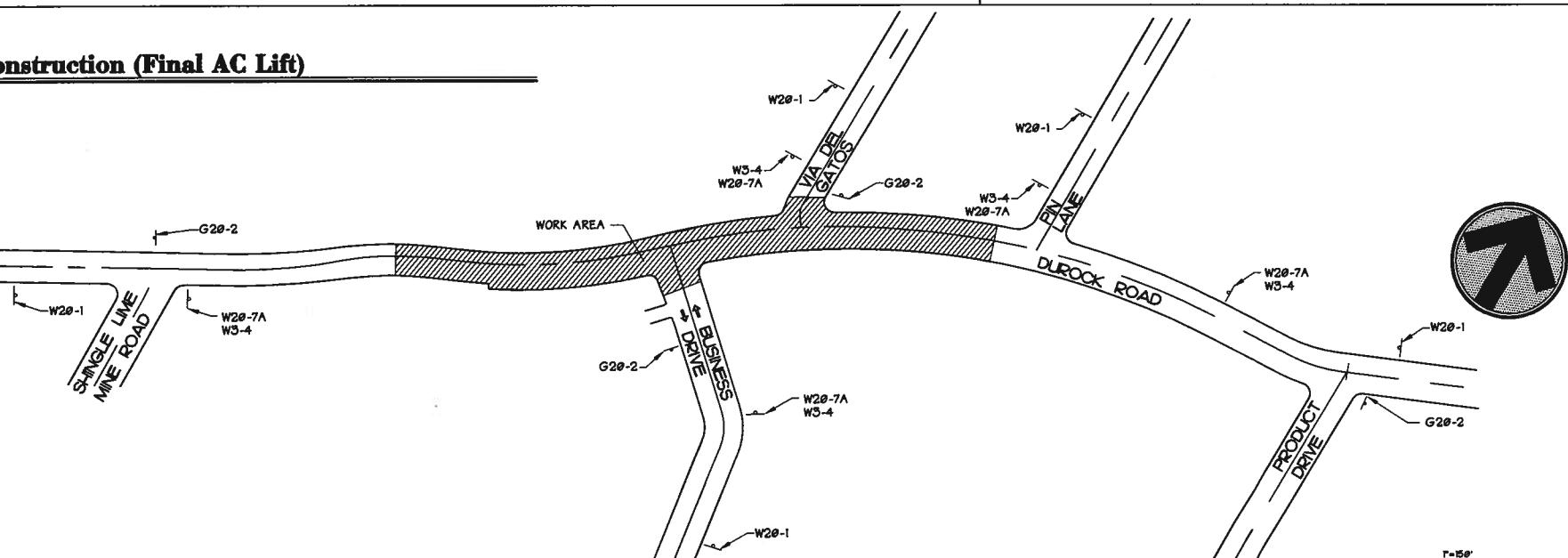
TEMPORARY CONTROL SIGNS TABLE	
MUTCD CODE	SIGN
G20-2	END ROAD WORK
W1-3	TURN AND CURVE SIGN
W3-4	PREPARE TO STOP
W20-1	ROAD WORK AHEAD
W20-2	DETOUR
W20-3	ROAD CLOSED AHEAD
W20-7a	FLAGGER
M4-8	DETOUR (PLAQUE)
M4-9a	END DETOUR
M4-9	DETOUR (W/ ARROW)
M4-9a	PEDESTRIAN AND BIKE DETOUR (W/ ARROW)
M4-9b	BIKE DETOUR (W/ ARROW)
R5-2	NO LEFT TURN
R5-1	DO NOT ENTER
R5-1a	WRONG WAY
R6-2	ONE WAY (W/ ARROW)
R11-2	ROAD CLOSED
R11-4	ROAD CLOSED (LOCAL TRAFFIC ONLY)
R3-1	NO RIGHT TURN

Durock Road & Business Drive Traffic Signal & Intersection Widening Plan

COUNTY OF EL DORADO	DEPARTMENT OF
TRANSPORTATION	Ownership Information:
SUBMITTAL DATE: 05-14-10	

DESIGNED	DATE
DRAWN	Horz. SCALE 1" = 550'
JOB No.	Vert. SCALE N/A
SHEET	
SC-1	
14	

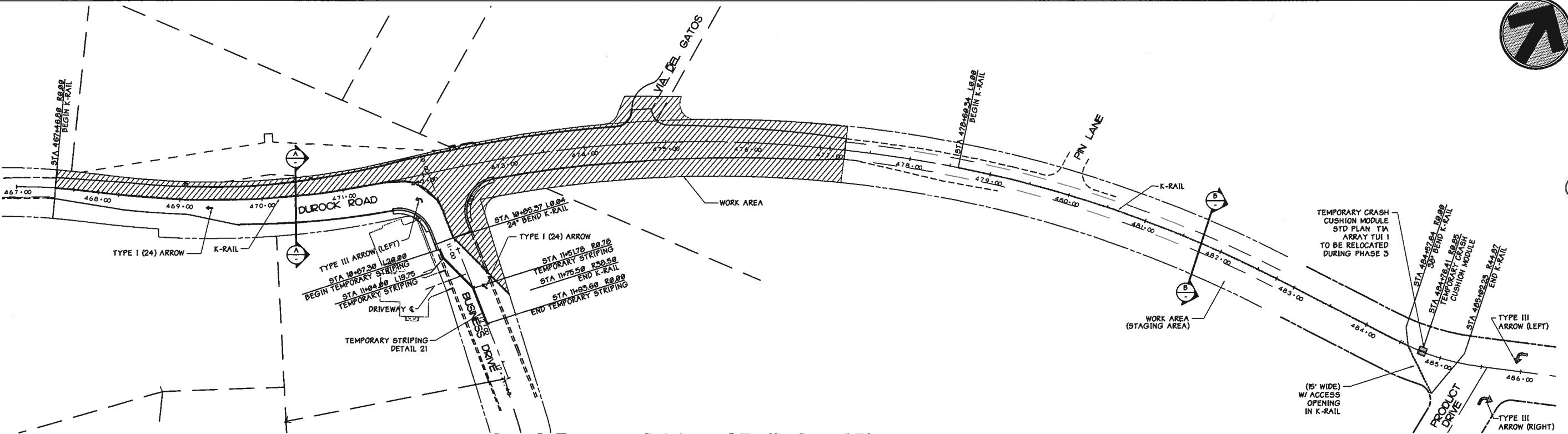
Stage 3 Construction (Final AC Lift)



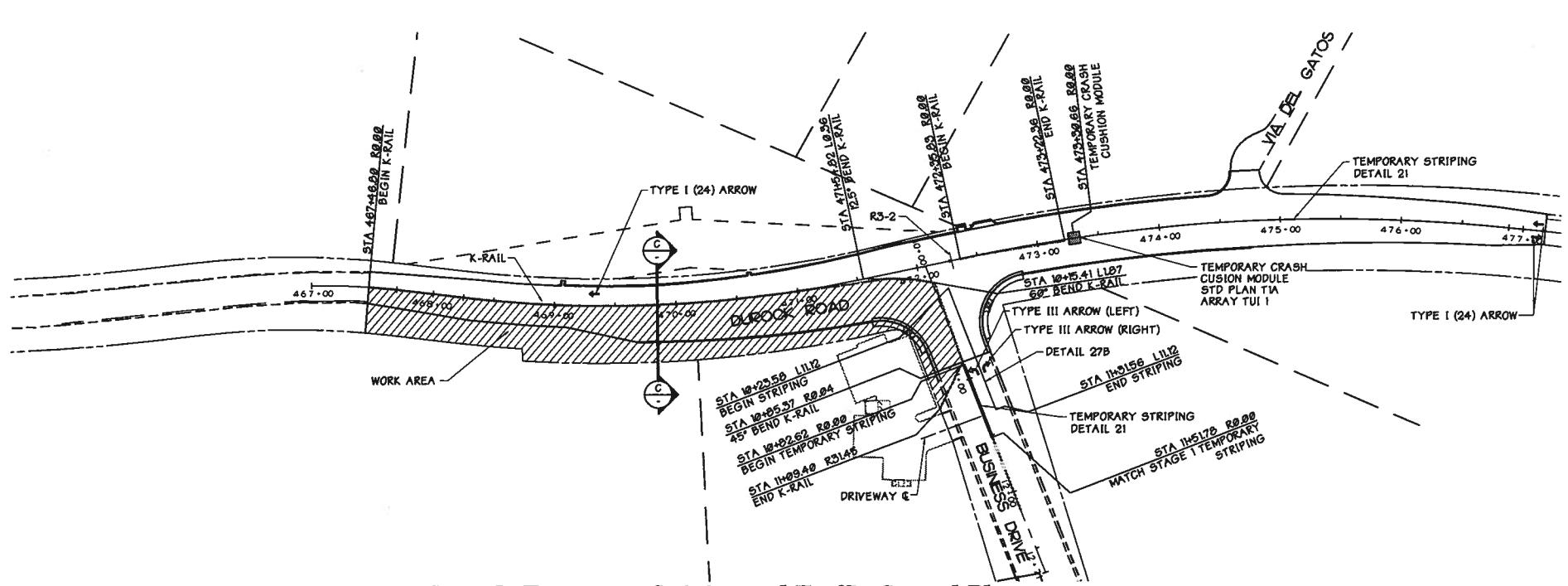
Stage 3 Construction Notes

1. INSTALL FINAL LIFT (2" AC).
2. STRIPE FINAL LANES.
3. ALL WORK SHALL BE PERFORMED DURING THE DAY UNLESS NIGHT WORK IS APPROVED BY THE ENGINEER FOR SAFETY REASONS OR EASE OF CONSTRUCTION AND PER "MAINTAINING TRAFFIC" SECTION OF THE CONTRACT DOCUMENTS.
4. ALL SIGNS, BARRIERS, AND CHANNELIZE DEVICES USED DURING NIGHTTIME SHALL BE EITHER RETRO-REFLECTIVE WITH A SMOOTH, SEALED OUTER SURFACE, OR LUMINATED TO SHOW THE SAME SHAPE AND SIMILAR COLOR FOR BOTH DAY AND NIGHT.
5. THE STAGE 1 OR STAGE 2 DETOUR CONFIGURATION MAY BE USED WITH LANE SHIFTING.

NOTE: FINAL LIFT AND STRIPING MAY BE DONE AS NIGHT WORK TO LESSEN IMPACT ON TRAFFIC DELAYS. CONTRACTOR TO VERIFY W/ ENGINEER. CALTRANS STD PLAN T13 TRAFFIC CONTROL W/ REVERSIBLE CONTROL SHALL APPLY.



Stage 1: Temporary Striping and Traffic Control Plan



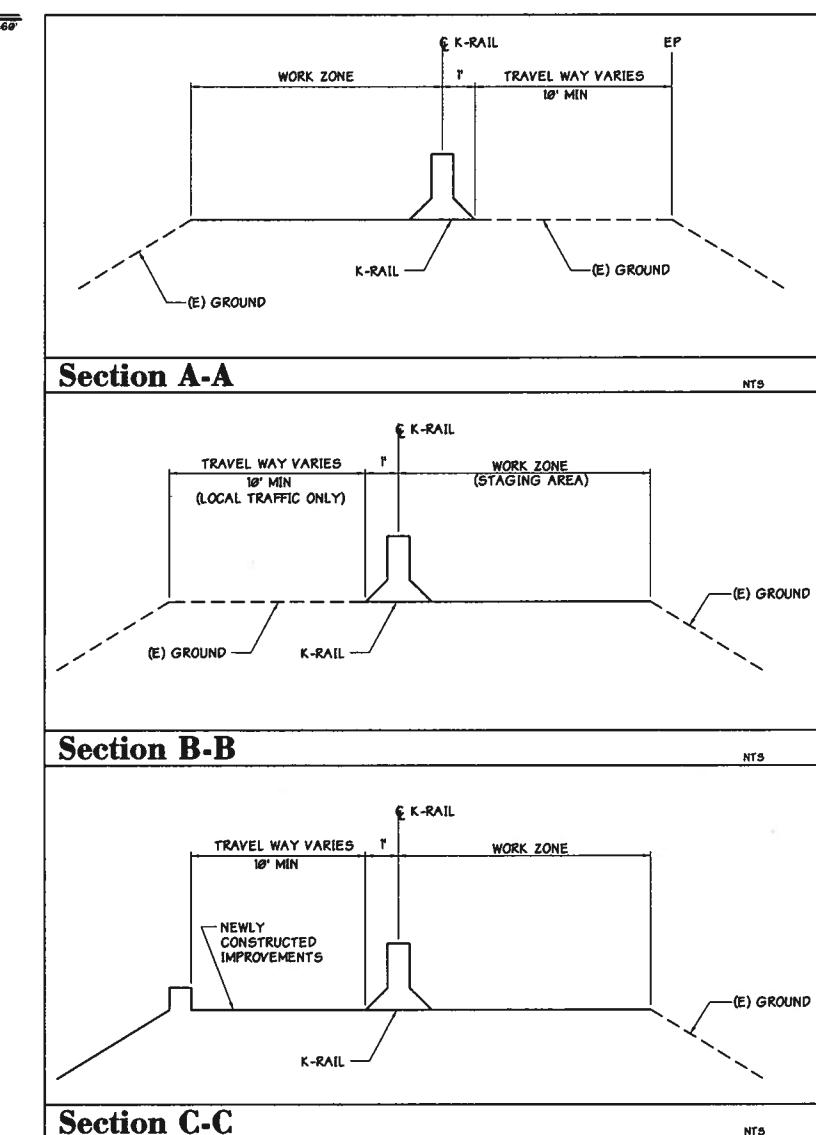
Stage 2: Temporary Striping and Traffic Control Plan

General Notes:

1. UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS, ALL TEMPORARY WARNING SIGNS SHALL HAVE BLACK LEGEND ON ORANGE BACKGROUND.
2. CALIFORNIA CODE ARE DESIGNATED BY (CA). OTHERWISE, FEDERAL (MUTCD) CODES ARE SHOWN.
3. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.
4. THIS PLAN IS FOR BID PURPOSES ONLY AND IS A GUIDELINE FOR THE CONTRACTOR. CONTRACTOR SHALL SUBMIT TO THE COUNTY HIS OWN STAGING AND TRAFFIC CONTROL PLAN FOR APPROVAL.
5. CONTRACTOR SHALL FOLLOW ALL CALTRANS STD PLAN DETAILS APPLICABLE TO THIS ROADWAY.
6. CONTRACTOR MUST REFER TO CALTRANS SPECIFICATIONS FOR ALL TRAFFIC MAINTENANCE AND CONTROL.

Legend

- TEMPORARY SIGN
- ← DIRECTION OF TRAVEL
- INDICATES EXTENT OF WORK AREA

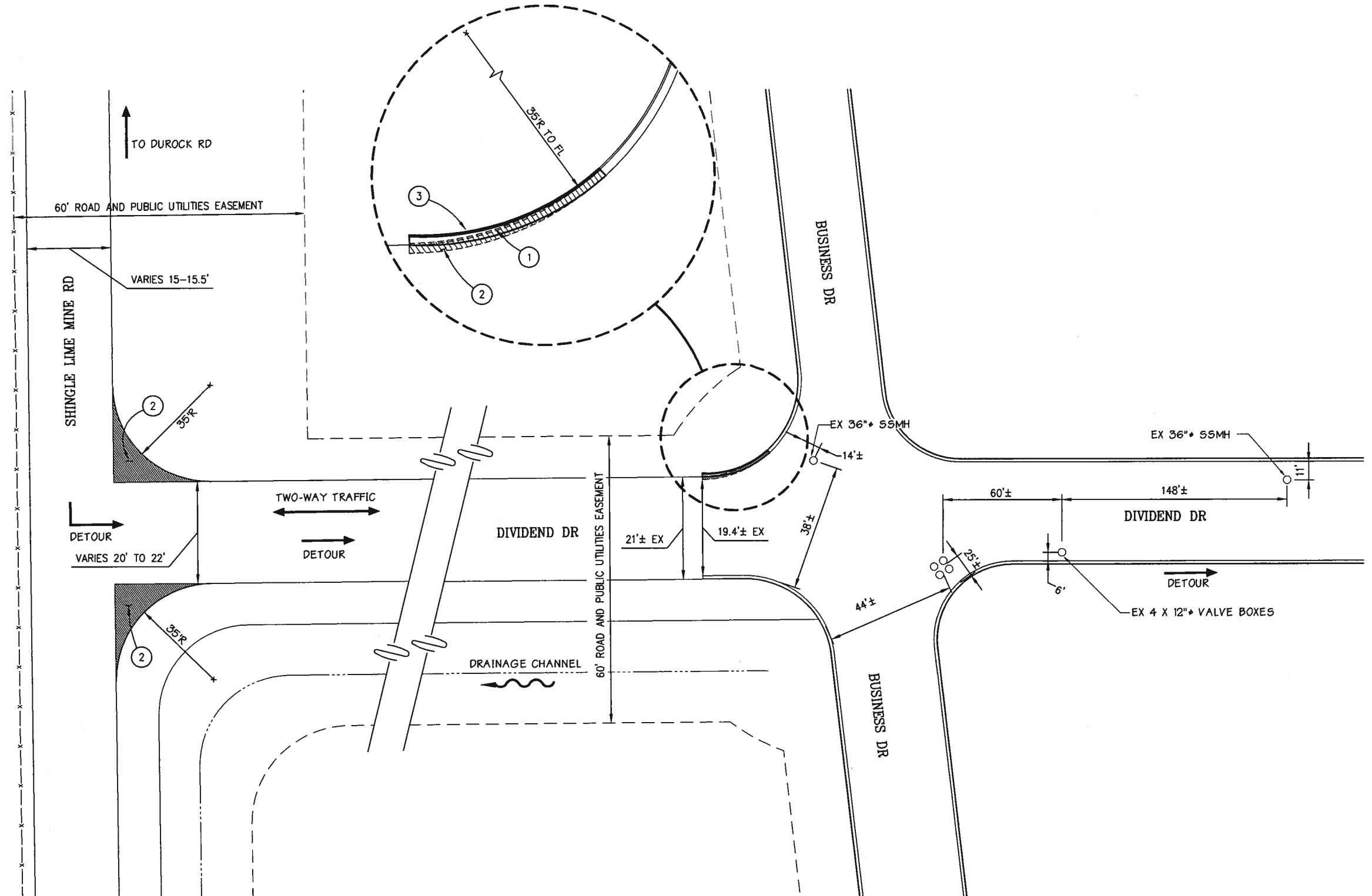


Section C-C

**DURROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING
STAGE CONSTRUCTION AND
TRAFFIC HANDLING PLAN**

GNED	DATE
ACRES	
WN	Horz. SCALE
ASR	1:60'
No	Vert. SCALE
	N/A

SC-2
15



Detour - Utility Patch Paving

NTS



CONSTRUCTION NOTES:

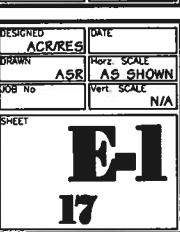
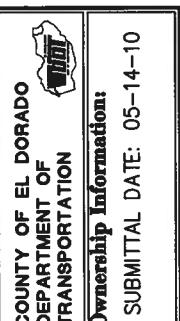
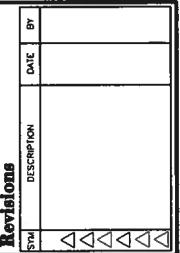
- ① EL DORADO COUNTY MAINTENANCE PERSONNEL TO REMOVE APPROXIMATELY 15' OF EXISTING CURB AND GUTTER, BACK TO THIRD JOINT LINE
- ② EL DORADO COUNTY MAINTENANCE PERSONNEL TO PLACE NEW ROAD SECTION (HATCHED AREAS)
- ③ CONTRACTOR TO PLACE APPROX 15 LF OF CURB & GUTTER (TYPE 2) AFTER DETOUR IS NO LONGER NEEDED

DESIGNED BY: MP DATE: 7/27/09
DRAWN BY: SGM PAPER SCALE: N/A
JOB No: 73354 VART SCALE: N/A

SHEET SC-3
16

**DUROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING
STAGE CONSTRUCTION AND
TRAFFIC HANDLING PLAN**

COUNTY OF EL DORADO
DEPARTMENT OF
TRANSPORTATION
Ownership Information:
SUBMITTAL DATE: 05-14-10



STREET NAME SIGN (D3-1)

SIGNAL ARM

VEHICLE SIGNAL HEADS

15' MIN. ABOVE
TOP OF
FOUNDATION

1" TIP

0.080" ALUMINUM
SIGN PLATE

3/16" MIN DIA RIVETS, MAX SPACING OF 8" O.C.,
BEGINNING 1" FROM END OF CHANNEL

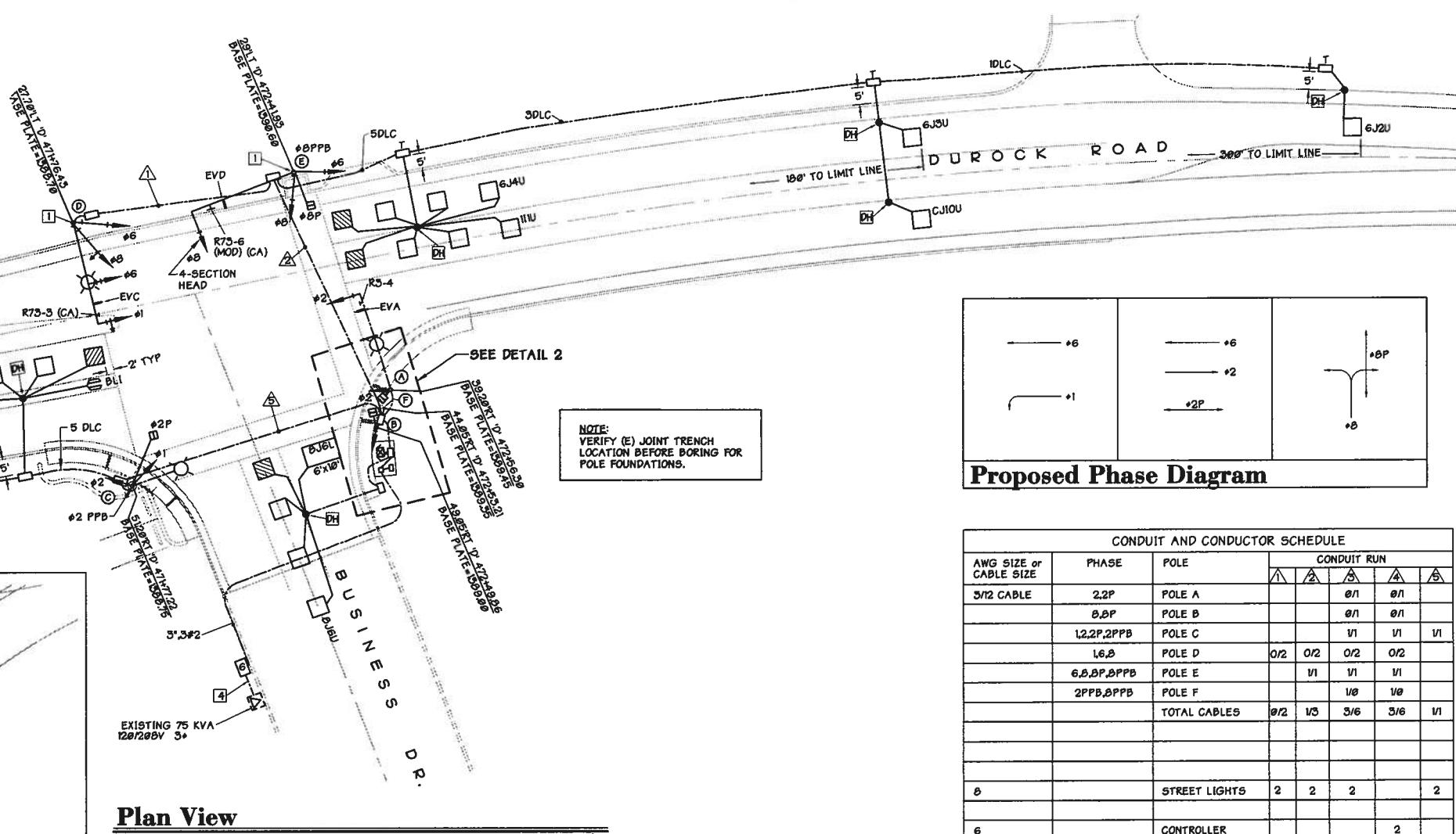
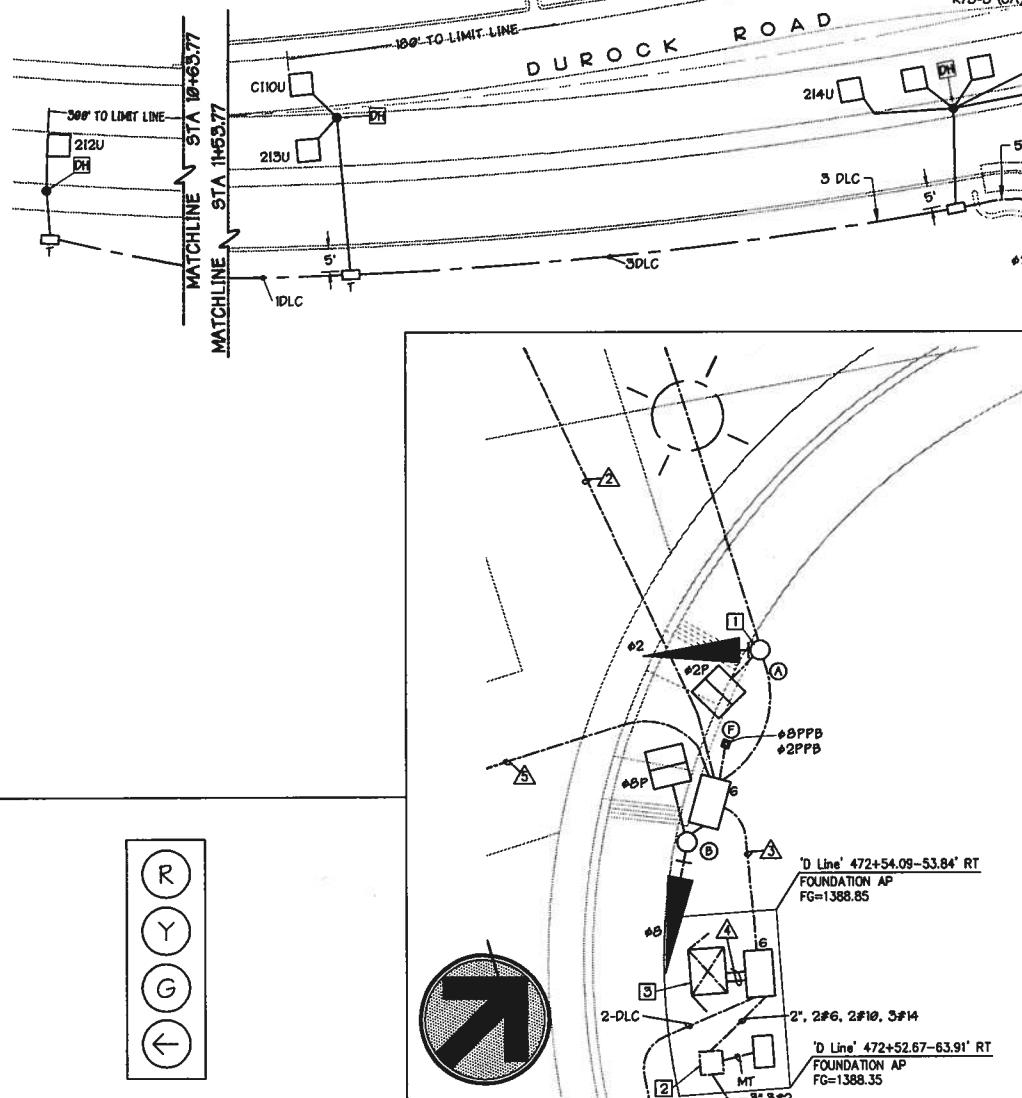
Detailed description: This technical drawing illustrates the components and installation of a Street Name Sign (D3-1). It shows two vertical signal arms extending from a central support. Each arm has a top signal head and a lower vehicle signal head. A street name sign is mounted on the right arm. A vertical dimension line indicates that the top of the sign is 15' above the foundation. A horizontal dimension line shows a 1" tip at the bottom of the sign plate. The sign plate is made of 0.080" aluminum. A note specifies that 3/16" diameter rivets with a maximum spacing of 8" O.C. should be used, starting 1" from the end of the channel. The drawing also shows a cross-section of the sign plate with two vertical support posts and a horizontal top edge.

NOTES:

1. ALL HANGER COMPONENTS TO BE GALVANIZED,EXCEPT STAINLESS STEEL BANDS.
2. ATTACH SIGN TO POLE AND SIGNAL MAST ARM VIA SADDLE BRACKETS.
3. SEE EQUIPMENT SCHEDULE FOR MESSAGE.
4. SEE SPECIAL PROVISIONS FOR SIGN SPECIFICATIONS.
5. FRAME MATERIAL: 1 1/4" X 1 1/4" X 3/16" ALUMINUM CHANNEL - ALLOY 6063-T5

Street Name Sign Mounting Detail

NTS



Plan View

POLE AND EQUIPMENT SCHEDULE																
POLE	STANDARD			VEHICLE SIGNAL		PEDESTRIAN SIGNAL		PPB		HPS LUMINAIRE	NOTES					
	TYPE	Sig MA	Lum MA	Ø	TYPE	MOUNTING	Ø	MOUNTING	Ø							
(A)	19-2-100	25' EVA	12'	2	12	MAS	2	SP-1-T	Ø	200W	D3-BUSINESS DR. INSTALL R9-4					
				2	12	TV-1-T										
(B)	1-B			Ø	12	TV-1-T	Ø	SP-1-T								
(C)	15TS		12'	1	AA	SV-2-T	2	SP-1-T	2	LEFT	200W INSTALL R9-3A R9-3B (LT)					
				2	12											
(D)	19-3-100	30' EVC	12'	1	AA	MAS			Ø	200W	D3-BUSINESS DR. INSTALL R9-3(C) INSTALL R9-3A R9-3B (RT)					
				6	12	MAS										
				6	12	SV-2-TB										
				8	AA											
				8	12A	MAS-4B	Ø	SP-1-T	Ø	RIGHT						
(E)	19-2-100	30' EVD		8	12	SV-2-TB			Ø		D3-DUROCK ROAD INSTALL R61-19(CA)					
				6	12											
				6	12											
(F)	PPB POST							Ø	LEFT RIGHT							

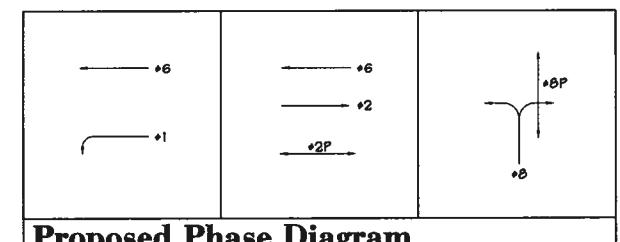
12 = ALL 12" LED SIGNAL SECTIONS, AA = ALL ARROW LED SIGNAL SECTIONS, EVA, EVC, & EVD EMERGENCY VEHICLE PREEMPTION SENSOR
12A = 4 SECTION HEAD (SEE DETAIL 1 THIS SHEET)

Sheet Notes

- 1 INSTALL D3 SIGN AS SHOWN ON POLE SCHEDULE, PER DETAIL 3 ON THIS SHEET.
- 2 INSTALL COUNTY FURNISHED CONTROLLER CABINET ASSEMBLY WITH MODEL 980 CONTROLLER. FRONT DOOR OF CONTROLLER SHALL FACE WEST.
- 3 INSTALL COUNTY FURNISHED TESCO MODEL 27-22 SERVICE EQUIPMENT ENCLOSURE WITH BATTERY PACK SYSTEM (BBS) CABINET. DOOR OF ELECTRICAL SERVICE ENCLOSURE SHALL FACE WEST AND THE DOOR FOR THE BBS ENCLOSURE SHALL FACE EAST. SEE CONTROLLER AND SERVICE PAD DETAIL, SHEET E-2.
- 4 PG&E TO INSTALL CABLE FROM TRANSFORMER TO #6 PULL BOX.

NOT

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CALTRANS STANDARD PLANS AND SPECIFICATIONS DATED MAY 2006, AND THE CALIFORNIA MUTCD.



Proposed Phase Diagram

CONDUIT AND CONDUCTOR SCHEDULE						
AWG SIZE OR CABLE SIZE	PHASE	POLE	CONDUIT RUN			
			1	2	3	4
3/2 CABLE	2,2P	POLE A			8/1	8/1
	8,8P	POLE B			8/1	8/1
	1,2,2P,2PPB	POLE C			1/1	1/1
	1,6,8	POLE D	0/2	0/2	0/2	0/2
	6,8,8P,8PPB	POLE E		1/1	1/1	1/1
	2PPB,8PPB	POLE F			1/8	1/8
	TOTAL CABLES		0/2	1/3	3/6	3/6
8		STREET LIGHTS	2	2	2	2
6		CONTROLLER				2
		BLI			1	1
DLC		#1 DETECTOR	1	1	1	
		#2 DETECTOR			3	3
		#6 DETECTOR	3	3	3	
		#8 DETECTOR				2
		COUNT	1	2	2	1
EMERGENCY	VEHICLE		1	2	3	3
		TOTAL DLC + EV	1	7	17	15
		TOTAL	5	13	24	26
						9

5. CONDUCTOR CABLE TO PCB TO CONDUCTOR IC TRAFFIC SIGNAL

NOTE: THIS SHEET ACCURATE FOR ELECTRICAL WORK ONLY

4- Section Head

1 Detail S.E. Corner

SCALE: 1"=5

EL DORADO COUNTY
SIGNAL SPECIAL PROVISIONS

ALL SIGNAL INSTALLATIONS SHALL CONFORM TO ALL CURRENT STATE OF CALIFORNIA STANDARD SPECIFICATIONS WITH THE EXCEPTION OF THE BELOW ITEMIZED EL DORADO COUNTY SPECIAL PROVISIONS:

GENERAL PROVISIONS

1. USE OF PROGRAMMED VISIBILITY SIGNAL HEADS SHOULD BE MINIMIZED. FOR LEFT TURN LANES, RED, YELLOW AND GREEN ARROWS SHOULD BE USED.
2. THE RED, YELLOW AND GREEN INDICATIONS FOR ALL SIGNAL HEADS SHALL, WITH THE EXCEPTION OF THE PROGRAMMED VISIBILITY HEAD, COMPLY WITH THE CALTRANS TYPE I LED SPECIFICATION AND, TO EVERY EXTENT POSSIBLE, EXHIBIT THE APPEARANCE OF AN INCANDESCENT FIXTURE (i.e. Dialight DuraleD or Gelcore).
3. ALL PROGRAMMED VISIBILITY HEADS SHALL USE CALTRANS APPROVED LED MODULES FOR ILLUMINATION.
4. ALL SIGNAL HEADS SHALL BE 12".
5. ALL SIGNALS SHALL BE DESIGNED WITH "NEAR-RIGHT" INDICATIONS FOR ALL THROUGH PHASES.
6. ALL SIGNAL HEADS SHALL BE FURNISHED WITH "TUNNEL" TYPE VISORS.
7. ALL SIGNAL HEADS, BACKING PLATES AND VISORS SHALL BE PAINTED ALUMINUM.
8. PEDESTRIAN HEADS SHALL BE LED. (FULL HAND/MAN TYPE ONLY)
9. ALL PEDESTRIAN HEADS LOCATED WITHIN SCHOOL ZONES SHALL BE COUNTDOWN TYPE LED HEADS WITH FULL HAND/MAN DISPLAY.
10. PEDESTRIAN HEADS IN AREAS OF HIGH PEDESTRIAN USE, AS DETERMINED BY THE ENGINEER, SHALL BE COUNTDOWN TYPE LED HEADS WITH FULL HAND/MAN DISPLAY.
11. ALL PED PUSH BUTTONS SHALL BE ADA COMPLIANT AND FULLY WARRANTED AGAINST STICKING.
12. WHENEVER POSSIBLE MULTI-CONDUCTOR SIGNAL CABLE SHOULD BE USED RATHER THAN INDIVIDUAL WIRES.
13. TYPE II LOOP CABLE SHALL BE USED FOR ALL LOOP DETECTORS.
14. TYPE B LEAD-IN CABLE (DLC) SHALL BE USED FOR LOOP LEAD IN WIRE.
15. DETECTOR HANHOLE SHALL BE REINFORCED CONCRETE WITH CAST IRON FRAME AND COVER. THE COVER SHALL BE SECURED BY TWO (2) 5/8" X 1" STAINLESS STEEL SCREW.
16. ALL DETECTOR HANHOLE COVERS SHALL BE SET TO GRADE OR RAISED TO GRADE FOLLOWING FINAL PAVING.
17. ALL FUSE HOLDERS FOR LUMINAIRES SHALL BE LOCATED INSIDE POLE HAND HOLE.
18. LOOPS FOR THE COLLECTION OF VEHICLE COUNT DATA SHALL BE PROVIDED AS REQUESTED BY COUNTY.
19. ALL STREET NAME SIGNS SHALL BE "HIGH INTENSITY".
20. ALL STREET NAME SIGNS SHALL BE MOUNTED ACROSS POLE AND MAST ARM, NOT HUNG FROM MAST ARM.

EMERGENCY VEHICLE PREEMPTION

21. EMERGENCY VEHICLE PREEMPTION SYSTEM MUST BE I.D. CAPABLE.
22. FOR MAINTENANCE PURPOSES AND TO CONFORM WITH CURRENTLY INSTALLED COUNTY EQUIPMENT, ALL EMERGENCY VEHICLE PREEMPTION EQUIPMENT SHALL BE OPTICOM.

SIGNAL CONTROL CABINET

23. CABINET SHALL BE EQUIPPED WITH A FLUORESCENT LIGHT WHICH COMES ON AUTOMATICALLY WHEN EITHER DOOR IS OPENED.
24. ALL 332 CABINETS SHALL BE FURNISHED WITH A DOCUMENT DRAWER.

DELIVERY INFORMATION

25. CONTRACTOR SHALL NOTIFY EL DORADO COUNTY WHEN THEY WILL NEED THE COUNTY FURNISHED SIGNAL EQUIPMENT A MINIMUM OF ONE (1) WEEK PRIOR TO PICKUP. CONTRACTOR SHALL ARRANGE PICKUP WITH THE EL DORADO COUNTY INSPECTOR RESPONSIBLE FOR THE PROJECT. CONTRACTOR SHALL PICKUP THE COUNTY FURNISHED EQUIPMENT AT 2441 HEADINGTON ROAD, PLACERVILLE, CALIFORNIA, AND TRANSPORT TO THE PROJECT SITE.

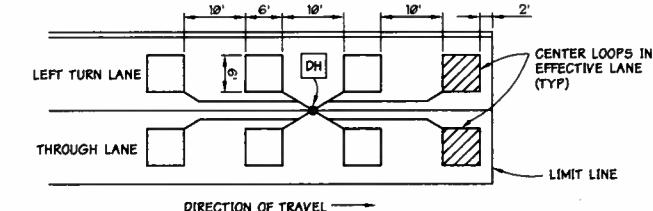
COMBINATION ELECTRICAL SERVICE CABINET/BATTERY BACKUP SYSTEM

26. THE ELECTRICAL SERVICE/BBS UNIT SHALL CONSIST OF A TESCO 27-22 CONFIGURED TO EL DORADO COUNTY SPECIFICATIONS.
27. BBS SHALL BE CAPABLE OF OPERATING A 100% LED EQUIPPED TYPICAL FULL EIGHT PHASE INTERSECTION FOR NO LESS THAN FOUR (4) HOURS OF FULL RUN TIME OPERATION PLUS FOUR (4) HOURS OF ALL RED FLASH.
28. A PHOTOELECTRIC CELL SHALL BE LOCATED WITHIN THE SERVICE CABINET.

NEW TRAFFIC TURN-ON PROCEDURES

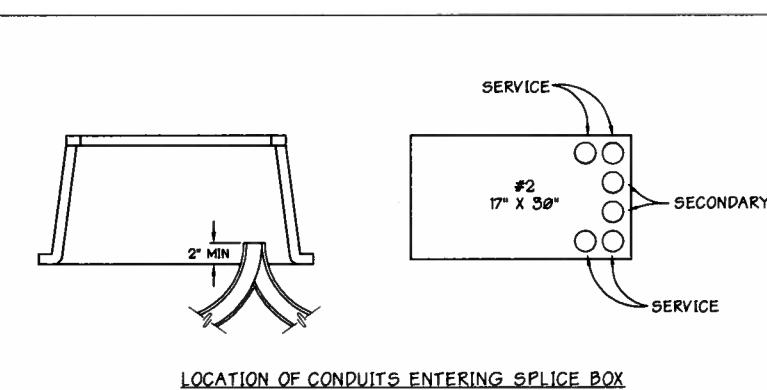
NOTE: SOME OF THE FOLLOWING PROCEDURES MAY BE PERFORMED PRIOR TO THE FINAL TURN-ON AS LONG AS ALL TESTS ARE OBSERVED AND/OR ACCEPTED BY THE RESPONSIBLE EL DORADO COUNTY INSPECTOR. ALL TESTING IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR. UNLESS OTHERWISE NOTED, ANY CHANGES TO OR MODIFICATION OF THIS STANDARD TURN-ON PROCEDURE MUST BE APPROVED BY THE ENGINEER IN RESPONSIBLE CHARGE.

1. CHECK ALL SIGNAL LIGHTING CIRCUITS. (RESPONSIBILITY OF ELECTRICAL CONTRACTOR. INSPECTOR MAY REQUEST TO BE PRESENT AT HIS DISCRETION.)
2. REMOVE ALL LOAD SWITCHES (MODEL 200) AND THE FLASHER UNITS (MODEL 204). THIS MUST BE DONE TO ASSURE THEIR PROTECTION AND TO PREVENT FEEDBACK THROUGH THE SWITCH CAUSING A POSSIBLE MISLEADING INDICATION AT THE SIGNALS. THE CONTROLLER UNIT SHOULD BE "OFF" DURING THIS TEST PROCEDURE.
3. CHECK EACH INDIVIDUAL SIGNAL FIELD CIRCUIT BY APPLYING 120 VOLTS AC TO THE FIELD TERMINAL OF EACH INDICATION. THIS PROCEDURE IS OFTEN CALLED "FLASHING" THE SIGNAL HEADS.
4. DURING "FLASHING" PROCEDURE, VERIFY THAT ALL INDICATIONS THAT SHOULD BE "ON" ARE "ON" AND THAT ALL INDICATIONS THAT SHOULD BE "OFF" REMAIN "OFF". THIS PROCEDURE MAY BE ACCOMPLISHED THROUGH THE USE OF SMALL HOLES CUT IN THE SIGNAL FACE COVERINGS. SIGNALS MUST REMAIN COVERED DURING THIS OPERATION UNLESS THE CONTRACTOR PROVIDES MANUAL TRAFFIC CONTROL (FLAGGING) AND THAT CONTROL HAS BEEN APPROVED BY THE INSPECTOR.
5. CHECK LUMINAIRES (STREET LIGHTING). (RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. INSPECTOR MAY REQUEST TO BE PRESENT AT HIS DISCRETION.)
6. CHECK POWER PEDESTAL TO ASSURE THAT SWITCH FOR LUMINAIRES IS SET TO "AUTO".
7. COVER THE PHOTO ELECTRIC CELL AND VERIFY THAT ALL LUMINAIRES COME ON. (THIS TEST WILL TAKE A FEW MINUTES.)
8. REMOVE COVER FROM PHOTO ELECTRIC CELL VERIFYING THAT LUMINAIRES GO DARK.
9. SET SWITCH IN POWER PEDESTAL TO THE "TEST" POSITION AND VERIFY THAT ALL LUMINAIRES COME ON. (THIS TEST WILL TAKE A FEW MINUTES.)
10. SET SWITCH BACK TO "AUTO". SIGNALS CAN NOT BE TURNED ON UNLESS ALL LUMINAIRES ARE FUNCTIONING PROPERLY.
11. WHEN ALL TESTS ARE COMPLETE, SET SWITCH TO "TEST". THIS CONDITION SHOULD REMAIN FOR AT LEAST TWO WEEKS TO ALLOW "BURN IN" OF LUMINAIRES. THIS PERIOD MAY OCCUR AFTER THE SIGNALS HAVE BEEN TURNED ON.
12. CHECK ALL DETECTOR CIRCUITS. ALTHOUGH THESE TESTS ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, SOME DO REQUIRE THE COOPERATION AND PARTICIPATION OF THE EL DORADO COUNTY INSPECTOR AND APPROPRIATE COORDINATION SHOULD BE ARRANGED.
13. ALL DETECTOR LOOPS ARE TO BE TESTED FOR CONTINUITY AND RESISTANCE TO GROUND. RESISTANCE TO GROUND SHALL EXCEED 100 MEG OHMS. COUNTY INSPECTOR, AT HIS DISCRETION, SHOULD BE PRESENT DURING THESE TESTS AND OBSERVE RESULTS.
14. THE FUNCTIONALITY OF ALL VEHICLE DETECTION SHALL BE DEMONSTRATED BY USE OF A CONTRACTOR PROVIDED TEST VEHICLE WHILE CABINET INDICATIONS AND RESPONSES ARE OBSERVED BY THE COUNTY INSPECTOR.
15. THE CONTRACTOR SHALL DEMONSTRATE THE FUNCTIONALITY OF THE PED PUSH BUTTON CIRCUITS BY ACTIVATING THE PED PUSH BUTTON CIRCUITS WHILE CABINET INDICATIONS AND RESPONSES ARE OBSERVED BY THE COUNTY INSPECTOR.
16. OBSERVE OPERATIONS AND MAKE ANY ADJUSTMENTS TO OPERATIONS THAT ARE IDENTIFIED AS NECESSARY.



TYPICAL DETECTOR LOOP LAYOUT

TYPICAL DETECTOR LOOP LAYOUT



LOCATION OF CONDUITS ENTERING SPLICE BOX

TVSS DIAGRAM

NTS

TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)
SERVICE EQUIPMENT WIRING DIAGRAM

NTS

NTS

PG&E PULL BOX @ SERVICE POINT

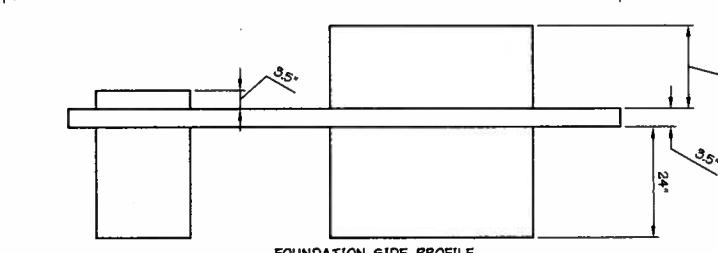
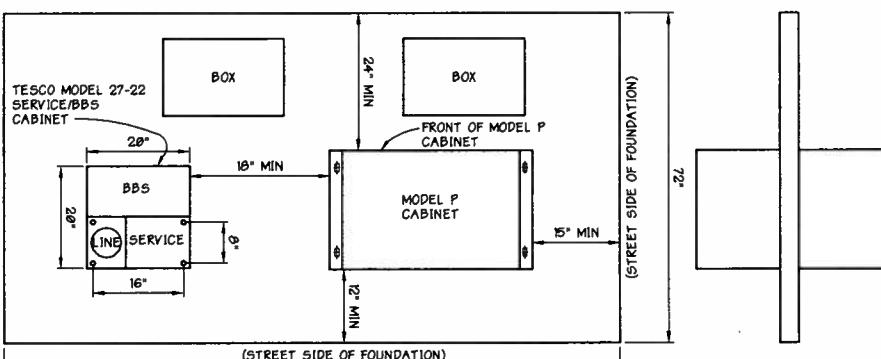
IN ADDITION TO MEETING ALL CURRENT CALTRANS SPECIFICATIONS, THE FOUNDATION FOR THE ELECTRICAL SYSTEMS CONTROLLER CABINET SHALL MEET THE FOLLOWING EL DORADO COUNTY SPECIAL PROVISIONS:

1. SERVICE SHALL CONSIST OF A TESCO 27-22 TYPE III-AF/BBS COMBO.

2. ELECTRICAL FULL BOXES SHALL NOT BE LOCATED IN PEDESTRIAN TRAVELWAY (SIDEWALK).

3. CABINET DOORS SHALL NOT PROTRUDE INTO PEDESTRIAN TRAVELWAY (SIDEWALK) WHEN OPEN.

4. IN NO CASE SHALL THE SIGNAL CABINET, BATTERY BACKUP CABINET OR SERVICE CABINET BE LESS THAN FOUR (4) FEET FROM THE EDGE OF PAVEMENT OR TOP EDGE OF CURB, WHICH EVER IS GREATER.



CONTROLLER AND SERVICE PAD DETAIL



Revisions	SM	DATE	BY

DUROCK ROAD & BUSINESS DRIVE	
TRAFFIC SIGNAL & INTERSECTION WIDENING	NOTES AND DETAILS
OWNERSHIP INFORMATION:	SUBMITTAL DATE: 05-14-10

COUNTY OF EL DORADO	DEPARTMENT OF	TRANSPORTATION
OWNERSHIP INFORMATION:	SUBMITTAL DATE: 05-14-10	

DESIGNED ACRES	DATE
DRAWN ASR	100% SCALE AS SHOWN
JOB NO.	VERT. SCALE N/A
SHEET	

E-2

18

Construction Notes

1) ADJUST EXISTING VALVE BOX AND COVER TO GRADE.
2) NOT USED.
3) PLACE CONCRETED ROCK OUTFALL PROTECTION. SEE SHEET D-1.
4) PLACE CONCRETED ROCK INLET PROTECTION. SEE SHEET D-1.
5) CONSTRUCT HEADWALL. PER DETAIL (3) C-2
6) CONSTRUCT ROCK-LINED DITCH. PER DETAIL (5) C-1
7) (E) WV TO REMAIN, RAISE TO FINISHED GRADE.

8) PLACE CALTRANS TYPE GO DRAIN INLET PER DETAIL (6) C-1
9) (E) FENCE TO BE REMOVED.
10) (E) 20" FORCE MAIN. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION.
11) PG&E POWER POLE
12) (E) AT&T CONDUITS.
13) (E) ABANDONED 12" FORCE MAIN.
14) (E) WATERLINE VERIFY.
15) (E) JOINT TRENCH.

- ⑯ 18" RCP PER SHEET D-1
- ⑰ 2-24" RCP PER SHEET D-1.
- ⑯ 18" RCP PER SHEET D-1
- ⑯ CONCRETE COLLAR
PER SHEET D-1
- ⑯ LIMIT OF DISTURBANCE.
- ⑯ SLOPE EASEMENT.
- ⑯ TEMPORARY CONSTRUCTION EASEMENT.
- ⑯ (E) INLET TO BE REMOVED.
- ⑯ (E) AT&T SERVICE BOX TO BE RAISED TO GRADE BY AT&T.
- ⑯ ADJUST SEWER MANHOLE TO GRADE.
- ⑯ DRAINAGE EASEMENT.

109-030-22



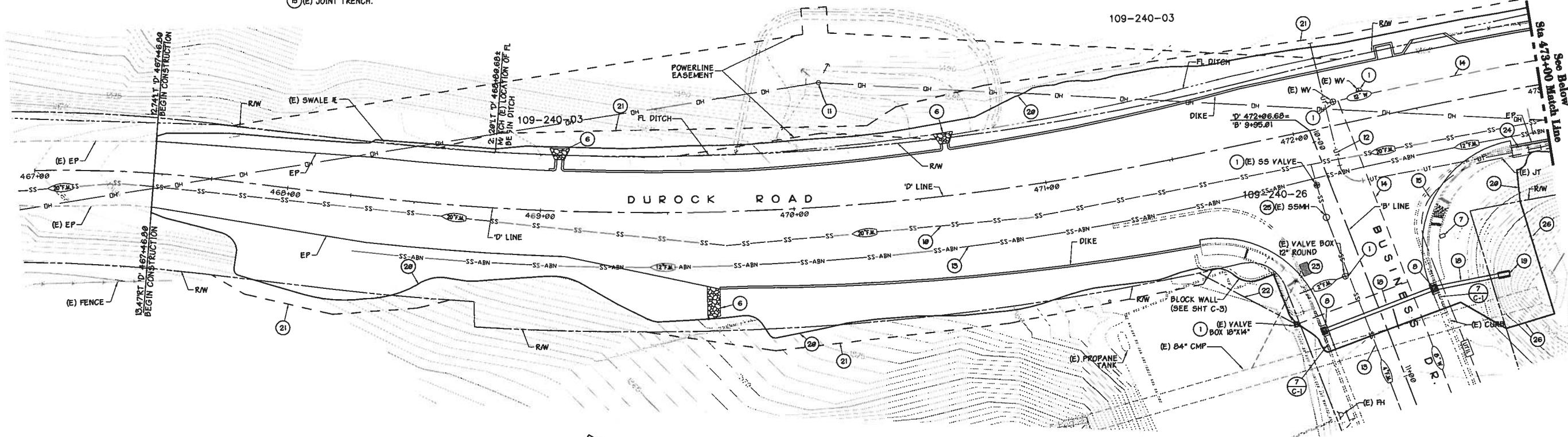
Revisions		SYN	DESCRIPTION	DATE	BY
◀	◀	◀	◀	◀	◀

**DUROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING
DUROCK ROAD STA 467+00 TO
STA 473+00 UTILITY PLAN**

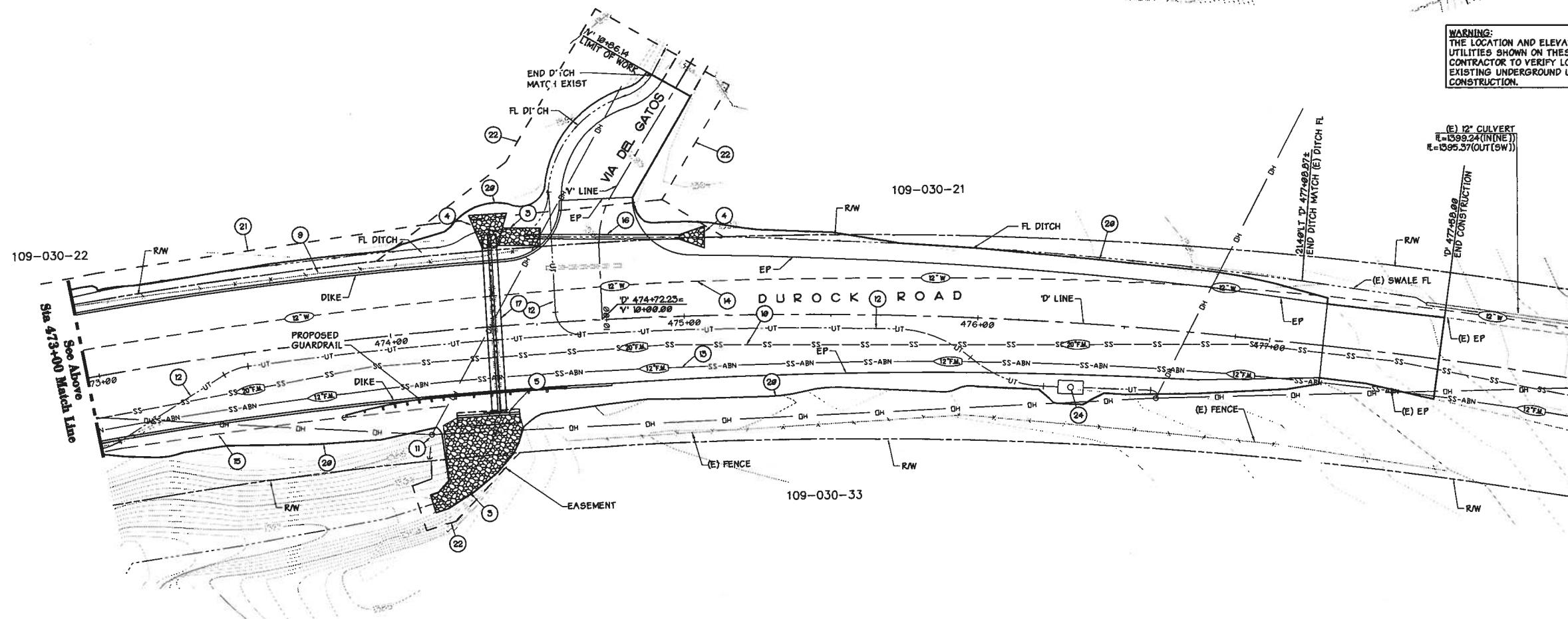
 COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION	
Ownership Information:	SUBMITTAL DATE: 05-14-10

DESIGNED ACR/RES	DATE
DRAWN ASR	Horz. SCALE 1" = 20'
JOB NO.	Vert. SCALE N/A
SHEET 1	

U-1
19



WARNING:
THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE ONLY APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATIONS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.





**DUROCK ROAD & BUSINESS DRIVE
TRAFFIC SIGNAL & INTERSECTION WIDENING
PERMANENT EROSION CONTROL PLAN**

COUNTY OF EL DORADO
DEPARTMENT OF
TRANSPORTATION
Ownership Information:
SUBMITTAL DATE: 05-14-10

DESIGNED BY: SAD
DRAWN BY: LW
SCALE: AS SHOWN
JOB No: 011006-110441
SHEET: ECI
Page: 20

Legend

- SEED & STRAW ONLY
- SEED & STRAW INSTALLED PER SPECIAL PROVISIONS AND TURF REINFORCEMENT MAT INSTALLED PER MANUFACTURERS INSTRUCTIONS
- FIBER ROLL. (10' SPACING BETWEEN ROWS WHERE APPLICABLE)

