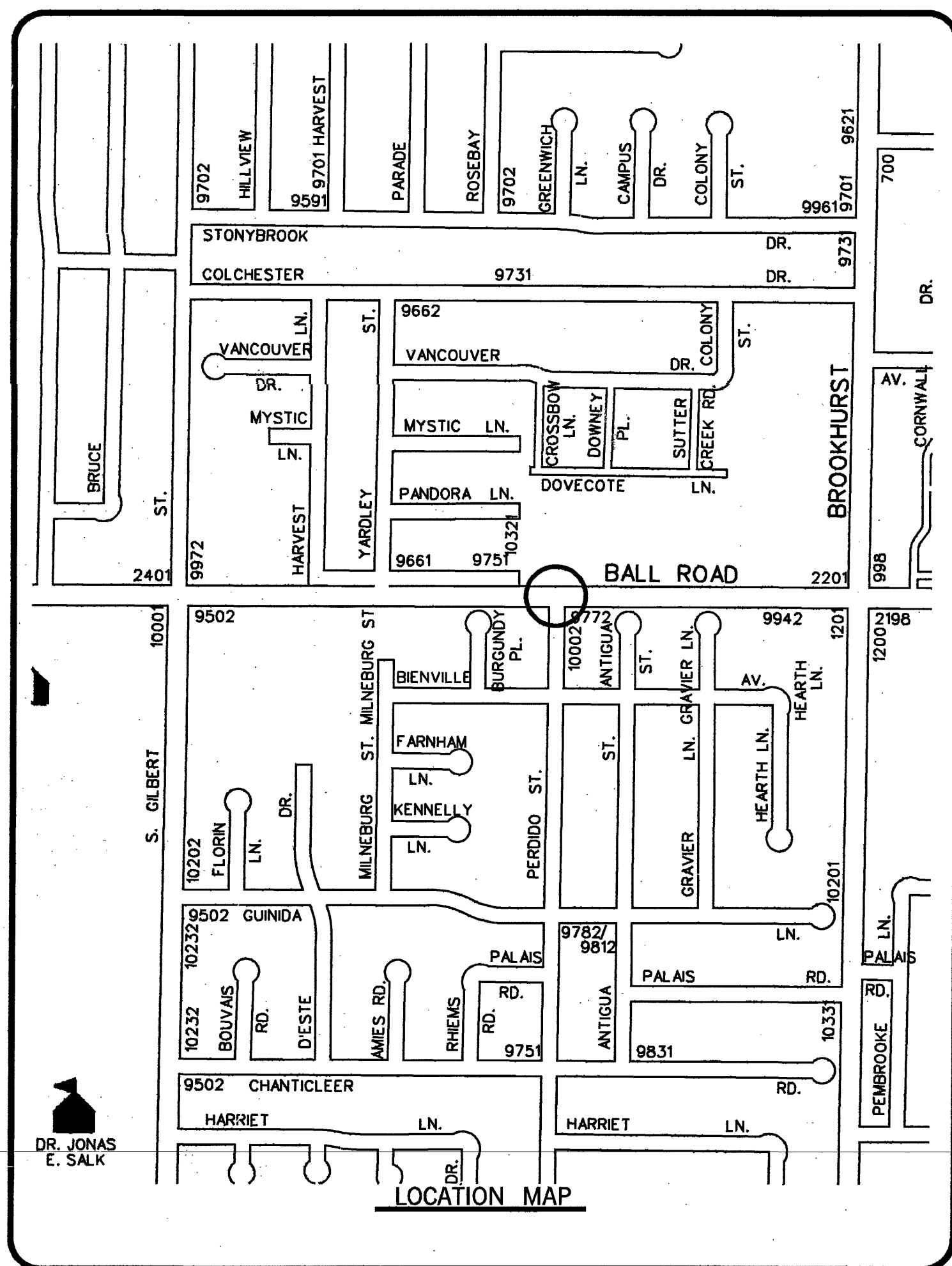
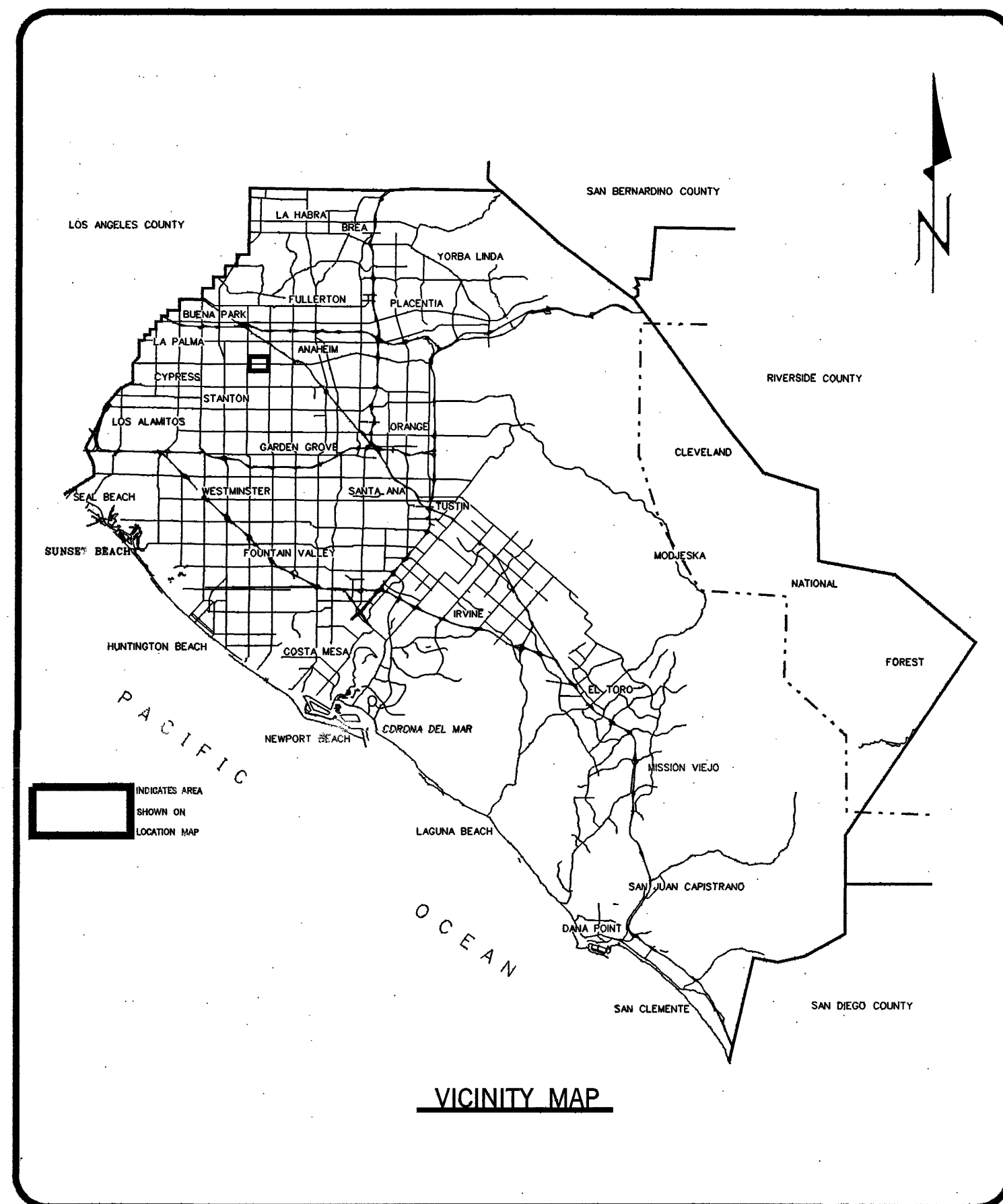




ORANGE COUNTY
PUBLIC FACILITIES AND RESOURCES DEPARTMENT
SANTA ANA, CALIFORNIA
JOHN W. SIBLEY, DIRECTOR
PLANS FOR CONSTRUCTION OF
A TRAFFIC SIGNAL
AT
BALL ROAD
AT
PERDIDO STREET

JULY 1998

AS-BUILT. 8-20-99

CONTRACTOR : TRANSTECH -
BILL HAHN
SUPERV. INSPECTOR : BOB PARSONS
CONST. INSPECTORS : PAUL SANDKEMP
JOHN DELSIGNE
TURN-ON DATE : 8-12-99

FUNDED BY: COMMUNITY DEVELOPMENT BLOCK GRANT
GMA #6

HOUSING & COMMUNITY DEVELOPMENT

RECOMMENDED: *Manuel Manzo* 7/2/98
MANUEL MANZO
DIVISION MANAGER

APPROVED: *Manuel Manzo* 7-2-98
DIRECTOR OF HOUSING & COMMUNITY DEVELOPMENT

PUBLIC FACILITIES & RESOURCES DEPARTMENT

RECOMMENDED: *[Signature]* 7/27/98
I. G. OCHOA
COUNTY TRAFFIC ENGINEER
RCE 35217 (9-30-99)
RTE 1183

APPROVED: *[Signature]* 7/30/98
KENNETH R. SMITH
CHIEF ENGINEER

THE BROOKHURST SHOPPING CENTER

APPROVED: *[Signature]* 7-20-98
G. T. UNTERKOEHLER
CPM MANAGER

CITY OF ANAHEIM

APPROVED: *[Signature]* 8/6/98
TAHER JALAI
PRINCIPAL TRAFFIC ENGINEER

APPROVED: *[Signature]* 8-7-98
GARY E. JOHNSON
DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET
2	STREET IMPROVEMENT PLAN AND PROFILE
3	SIGNAL PLAN
4	SIGNAL INTERCONNECTING PLAN
5	SIGNING AND STRIPING PLAN
6	DETAIL SHEET

UTILITY	OWNER	PHONE NO.	CONTACT
THE GAS COMPANY		(714)634-3115	JOE MORENO
METROPOLITAN WATER DIST. OF SO. CAL.		(213)250-6394	ANGELA ALDRIDGE
PACIFIC BELL		(714)972-7711	JACK STEWART
CITY OF ANAHEIM ELECTRIC UTILITY		(714)254-4226	FRANK FLORES
CITY OF ANAHEIM WATER		(714)254-5176	EDDY JAN
CITY OF ANAHEIM SANITATION		(714)254-5100	MARK KOMOTO
FOUR CORNERS PIPELINE CO. aka ARCO		(213)499-2320	DICK MARSTON
CITY OF ANAHEIM SUBDIVISION		(714)765-5193	JOANNE WILLIAMS
SOUTHERN CALIFORNIA EDISON		(310)-491-2491	ARLAN AVERYT
MULTIVISION CABLE TV		(714)632-9222	BERT BRAMLEY
USA		1-800-422-4133	

BASIS OF BEARINGS:

THE BASIS OF BEARING SHOWN HEREON ARE BASED ON THE BEARING BETWEEN O.C.S. HORIZONTAL CONTROL STATIONS G.P.S. No. 3017 AND G.P.S. No. 3004, BEING N89°48'35"W PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

SAID BEARING IS ALSO THE BEARING OF THE CENTERLINE OF BALL ROAD.

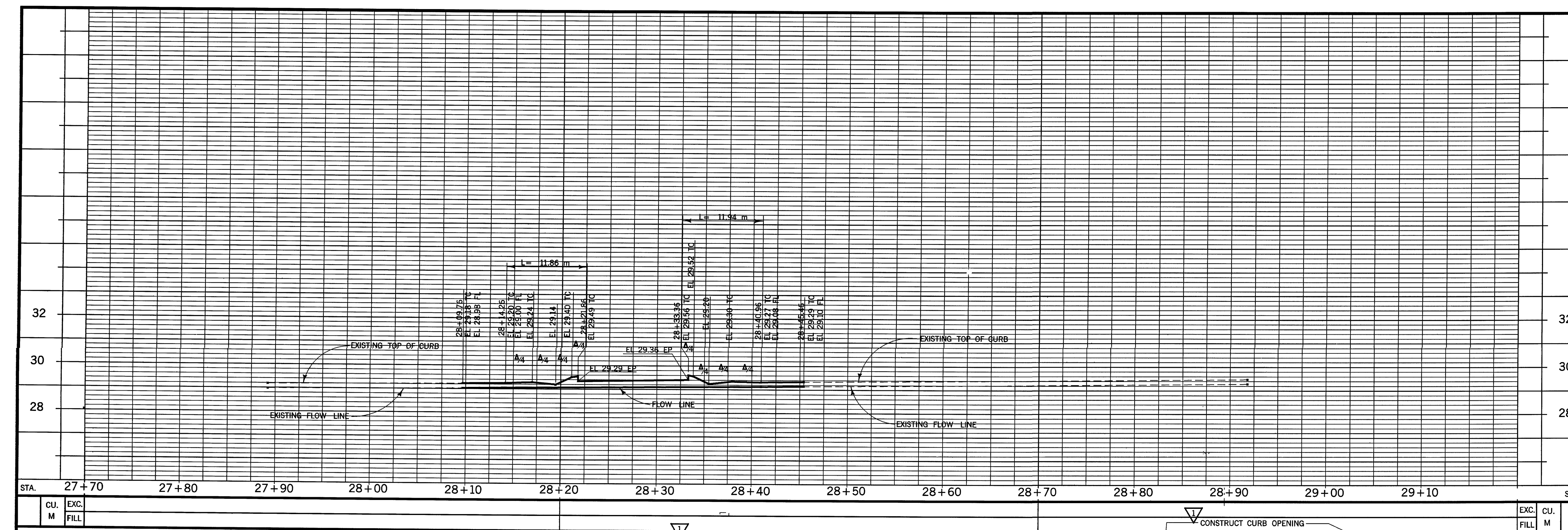
BENCH MARK:

PER O.C.S. BM. 1A-121-68 ELEV. = 23.578 m NGVD 1929 (1976 O.C.S. ADJUSTMENT)

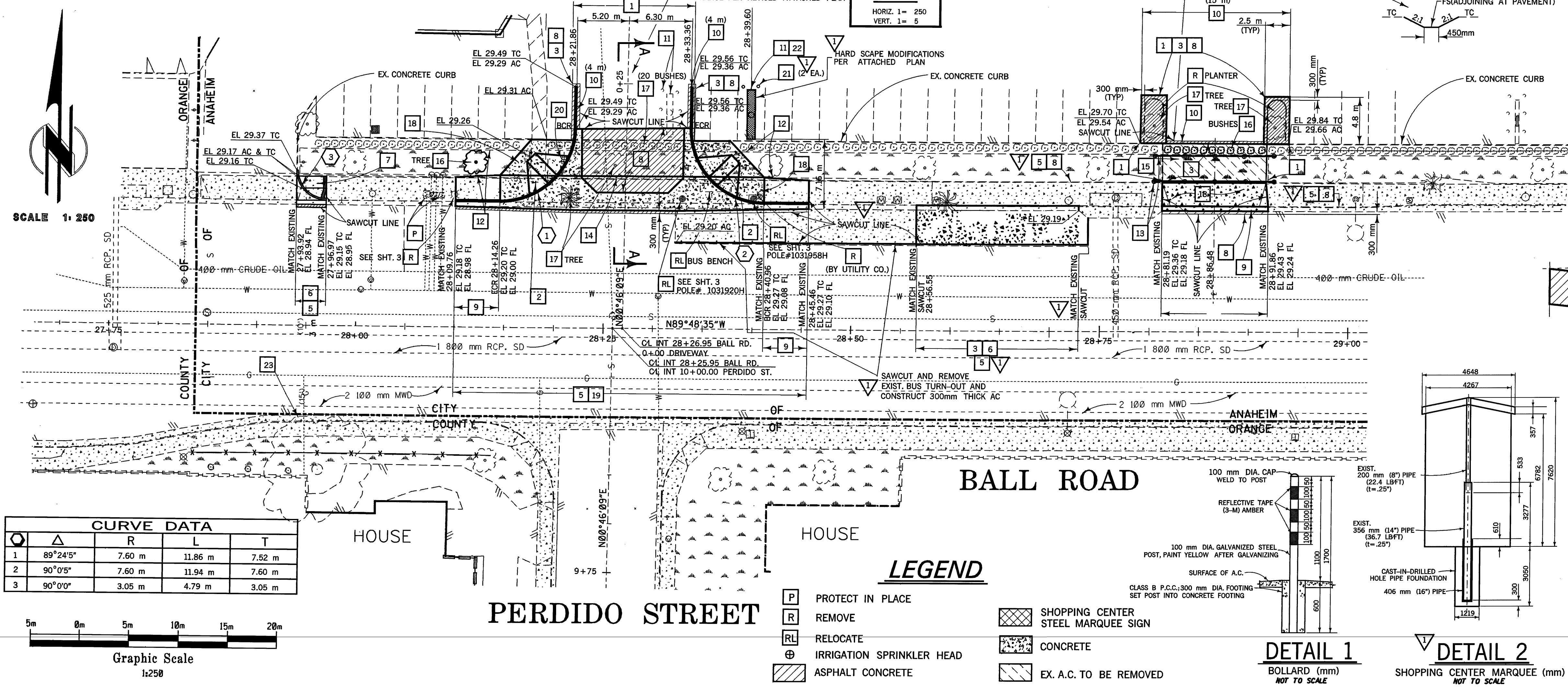
REVISIONS			
NO.	DESCRIPTION	SHT.	APPROVED DATE
1	AS-BUILT UPDATE	1,2,3,4	11-1999

W. O. NO. EC42001
DWG. NO.

SHEET 1 OF 7

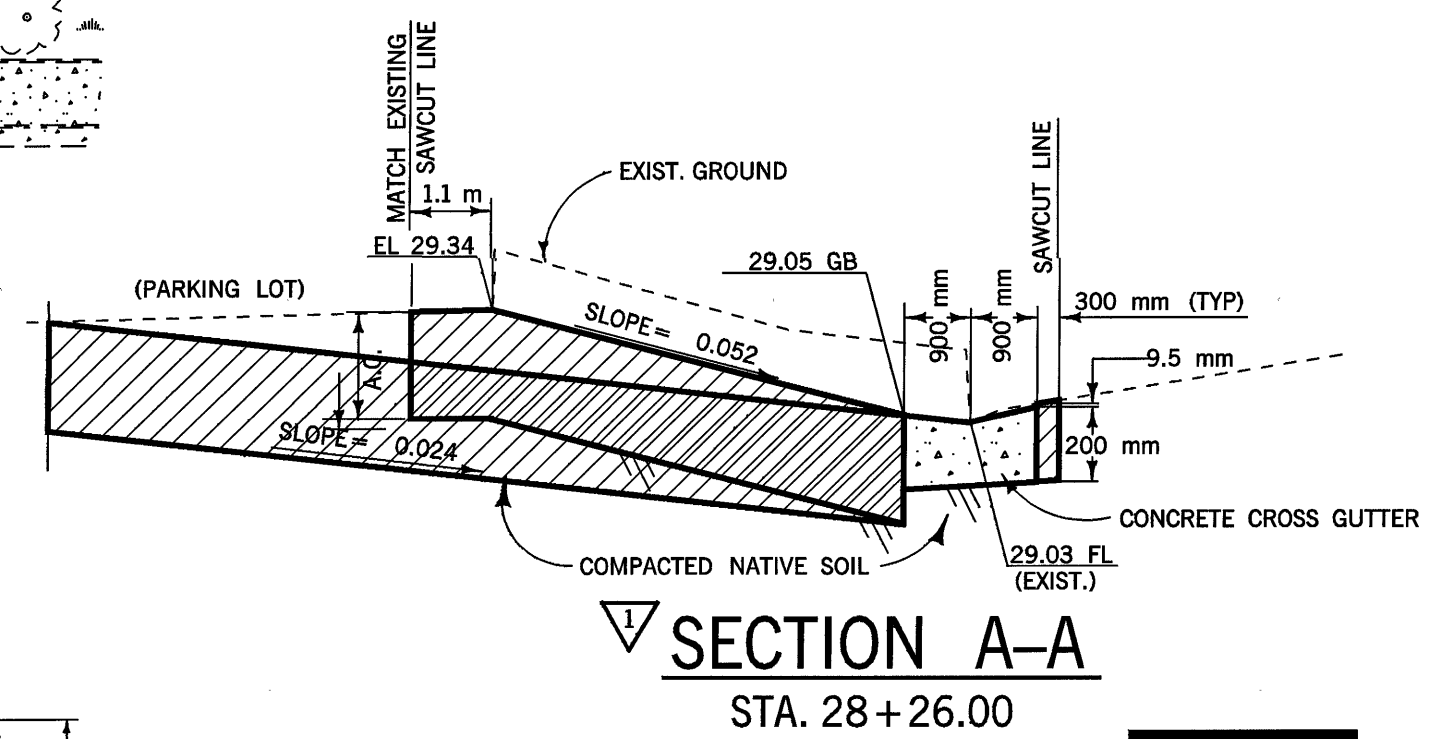
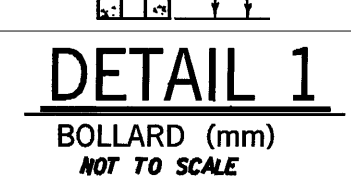


- CONSTRUCTION NOTES:**
- 1 - SAWCUT AND REMOVE EXISTING CURB.
 - 2 - CONSTRUCT P.C.C. CURB RAMP TYPE "1" PER ORANGE COUNTY STANDARD PLAN 1115.
 - 3 - SAWCUT AND REMOVE EXISTING A.C., AB AND SOIL TO A DEPTH OF 300 mm AS SHOWN.
 - 4 - SAWCUT AND REMOVE EXISTING DRIVEWAY AS SHOWN.
 - 5 - SAWCUT AND REMOVE EXISTING CURB, GUTTER, APRON AND/OR SIDEWALK AS SHOWN.
 - 6 - CONSTRUCT 300 mm THICK P.C.C. PAD PER CITY OF ANAHEIM STANDARDS.
 - 7 - CONSTRUCT P.C.C. CURB RAMP TYPE "7" PER ORANGE COUNTY STANDARD PLAN 1115. (CONTINUE GUTTER ALONG BALL ROAD)
 - 8 - CONSTRUCT 300 mm THICK A.C. OVER COMPACTED NATIVE SOIL.
 - 9 - CONSTRUCT P.C.C. CURB AND GUTTER TYPE A2-200(8") PER APWA STD. PLAN 120-1.
 - 10 - CONSTRUCT P.C.C. CURB TYPE A1-200(8") PER PLAN AND PER APWA STD. PLAN 120-1.
 - 11 - REMOVE & RELOCATE MARQUEE PER PLAN, DETAIL 2 AND SPECIFICATIONS.
 - 12 - REROUTE EXISTING IRRIGATION LINES.
 - 13 - FURNISH & INSTALL PVC IRRIGATION LINES AND SPRINKLER HEADS AS INDICATED. TIE-IN TO EXISTING IRRIGATION SYSTEM.
 - 14 - FURNISH & INSTALL 80 mm PVC SLEEVE AT DEPTH OF 500 mm FOR IRRIGATION LINES.
 - 15 - FURNISH & INSTALL PLANTING SOIL AND NEW MARATHON TYPE GRASS SOD.
 - 16 - PLANT REMOVED VEGETATION AS INDICATED.
 - 17 - REMOVE & RELOCATE EXISTING VEGETATION AS INDICATED.
 - 18 - CONSTRUCT 100 mm P.C.C. SIDEWALK OVER COMPACTED NATIVE SOIL.
 - 19 - CONSTRUCT P.C.C. CROSS GUTTER PER PLAN AND PER APWA STD. PLAN 122-1.
 - 20 - RELOCATE EXISTING IRRIGATION VALVE BOXES AS DIRECTED BY ENGINEER.
 - 21 - CONSTRUCT BOLLARDS PER DETAIL 1 THIS SHEET.
 - 22 - CONSTRUCT MARQUEE CIDH FOUNDATION PER DETAIL 2.
 - 23 - TRIM TREE TO RIGHT-OF-WAY LIMITS.



CURVE DATA				
Δ	R	L	T	
1 89°24'5"	7.60 m	11.86 m	7.52 m	
2 90°0'5"	7.60 m	11.94 m	7.60 m	
3 90°0'0"	3.05 m	4.79 m	3.05 m	

- LEGEND**
- P PROTECT IN PLACE
 - R REMOVE
 - RL RELOCATE
 - ⊕ IRRIGATION SPRINKLER HEAD
 - ASPHALT CONCRETE
 - SHOPPING CENTER STEEL MARQUEE SIGN
 - CONCRETE
 - EX. A.C. TO BE REMOVED



ORANGE COUNTY
PUBLIC FACILITIES & RESOURCES DEPARTMENT

**BALL ROAD
AT
PERDIDO STREET**

STREET IMPROVEMENT
PLAN & PROFILE

DESIGNED: T. PHAM/L. ABAD
DRAWN: T. PHAM
SCALE: AS SHOWN
DATE: JULY 98
CHECKED: L. ABAD
DRAWING NO.: EC42001

11-99 AS-BUILT UPDATE. T.L.E.
MARK DATE DESCRIPTION
REVISIONS
PREPARED UNDER RESPONSIBLE CHARGE OF:

7/27/98
RICHARD OCHOA
COUNTY TRAFFIC
ENGINEER

SHEET
2
OF 7

CONSTRUCTION NOTES:

1. CONSTRUCT P.C. CONCRETE TYPE "P" CONTROLLER CABINET FOUNDATION.
2. FURNISH & INSTALL CITY OF ANAHEIM TYPE 2070N TRAFFIC CONTROLLER WITH 12 CHANNELS OF DETECTION IN A FULLY WIRED TYPE "P" ALUMINUM CABINET PER THIS PLAN AND THE SPECIAL PROVISIONS. FACE CABINET DOOR TO BALL RD.
3. FURNISH & INSTALL TYPE IIIBF 120/240 ELECTRICAL SERVICE WITH A 100A MAIN, 50A SIGNAL, 30A (UNMETERED) STREET LIGHTING & FOUNDATION.
4. FURNISH & INSTALL 50 mm CONDUIT & 3#6 CONDUCTORS TO ELECTRICAL SERVICE CONNECTION PER CITY OF ANAHEIM UTILITIES STANDARD CU1600-25.
5. FURNISH & INSTALL VIDEO DETECTION CAMERA AND MOUNTING BRACKET ON LUMINAIRE MAST ARM AS DIRECTED BY THE ENGINEER AND SPECIAL PROVISIONS.
6. FURNISH & INSTALL CONDUCTORS AS INDICATED.
7. FURNISH & INSTALL VC SPLICE CABINET PER SPECIFICATIONS (REA-BD-5).
8. FURNISH & INSTALL CONDUIT AS INDICATED IN GENERAL NOTES SHEET 6 AND/OR #5 PULL BOXES (UNLESS OTHERWISE NOTED).
9. FURNISH & INSTALL SIGN AS INDICATED.
10. FURNISH AND INSTALL DETECTOR LOOPS AS SHOWN AND PER GENERAL NOTES SHEET 6.
11. FURNISH & INSTALL VIDEO DETECTION CIRCUITS AS REQUIRED BY SUPPLIER INCLUDING COAX CABLE FROM CAMERA LOCATIONS TO CONTROLLER. SEE SPECIAL PROVISIONS.
12. INSTALL SALVAGED WEATHER PROOF ELECTRICAL SERVICE BOX, 900 mm (3') ABOVE GRADE.
13. INSTALL 51 mm (2") CONDUIT HDS STEEL W3#6 CU THWN CONDUCTORS FOR 120/240 VOLT, 1 PH, 3 W, OPERATION TO SECONDARY LEVEL ON NW QUADRANT OF POLE.
14. REMOVE AND SALVAGE EXISTING STREET LIGHT AND O.H. STREET LIGHT SERVICE WIRE (1 SPAN) AND DELIVER TO UTILITY SERVICE YARD AT 909 E. VERMONT ST. ANAHEIM. COORDINATE REMOVAL AND DELIVERY WITH UTILITY INSPECTOR, JOHN ONTIVEROS, (714)765-6846. REMOVE AND DISPOSE STREET LIGHT FOUNDATION, REPAIR & REPLACE SIDEWALK AS DIRECTED BY ENGINEER.

15. REMOVE AND SALVAGE EXISTING LUMINAIRE AND MAST ARM FROM POWER POLE AND DELIVER TO UTILITY SERVICE YARD AT 909 E. VERMONT ST. ANAHEIM. COORDINATE REMOVAL AND DELIVERY WITH UTILITY INSPECTOR, JOHN ONTIVEROS (714)765-6846.

POLE SCHEDULE

POLE DATA			SIGNAL	H.P.S.V. LUMINAIRE		SIGNAL MOUNTING			PED. PUSH BUTTON			FOUNDATION		REFLECTORIZED STREET NAME SIG (DOUBLE FACE)
NO.	TYPE	HEIGHT		M.A.	M.A.	WATTS	VEH.	M.A.	PED.	PHASE	POLE	QUAD	TYPE	
①	26-4-129	9.1 m	13.7 m	4.6 *	200	SV-1-T	2 MAS	● SP-2-CS	6	E	C	910 x 2.7 m	Perdido	
②	1A	3 m	_____	3.7 m	_____	TV-1-T	_____	● SP-1-CS	8	S	S	610 x 610 x 915	_____	
③	TYPE 15	9.1 m	_____	3.7 *	200	SV-1-T	_____	_____	8	S	C	760 x 1.5 m	_____	
④	TYPE 15	9.1 m	_____	3.7 *	200	TV-1-T	_____	● SP-1-CS	_____	_____	C	760 x 1.5 m	_____	
⑤	24-4-129	9.1 m	10.7 m	4.6 *	200	SV-1-T	2 MAS	● SP-1-CS	_____	_____	C	910 x 2.4 m	Perdido	
⑥	1A	3 m	_____	_____	_____	TV-1-T	_____	_____	4	N	S	610 x 610 x 915	_____	
⑦	TYPE 15	9.1 m	_____	3.7 *	180	SV-1-T	_____	● SP-1-CS	_____	N	C	760 x 1.5 m	_____	
⑧	TYPE 15	9.1 m	_____	3.7 *	200	TV-1-T	_____	● SP-1-CS	6	E	C	760 x 1.5 m	_____	

- EXACT POLE LOCATIONS DETERMINED BY ENGINEER IN THE FIELD.
- POTHOLE POLE FOUNDATION LOCATIONS PRIOR TO ORDERING POLES.

* - STRAIGHT LUMINAIRE-MASTARM

C - C.I.D.H.
S - SQUARE.
- PER 1992 CALTRANS STD. PLAN

INDUCTIVE LOOP DETECTOR SCHEDULE

SENSOR UNIT	CHANNEL	DETECTOR
# 1	1 (1) 1-04	1
	2 (2) 2-04	2
# 2	1 (3) 1-08	3
	2 (4) 2-08	4

- DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY ENGINEER IN FIELD PRIOR TO INSTALLATION.
- ALL DETECTOR UNITS SHALL BE RACK MOUNTED, DUAL CHANNEL, DUAL OUTPUT PER CHANNEL WITH INTEGRAL COLORGATED EXTENSION AND DELAY CAPABILITY. OUTPUT "A" SHALL BE TIMED. OUTPUT "B" SHALL BE PRESENCE MODE FOR SYSTEM SAMPLING & COUNT OUTPUT ONLY.
- SYSTEM SAMPLER NUMBER.
- VEHICLE COUNTING SYSTEM, INPUT NUMBER.
- PROVIDE A 14 SLOT DETECTOR RACK

CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN							
		1	2	3	4	5	6	7	8
# 14	02 VEHICLE					6	3	3	3
	03 VEHICLE				3	6			
	04 VEHICLE	3	3	3	3	3			
	06 VEHICLE		3	3	3	3			
	07 VEHICLE	3	3	3	3	6		3	
	08 VEHICLE					3			
	02 PED								
	04 PED	2	2	2	2	2			
# 14	06 PED				2	4			2
	08 PED					4		2	
	02 PPB								
	04 PPB		1	1	1	1			
	06 PPB		1	1	2				
	08 PPB				2	1	1	1	
	PPB COMMON	1	1	1	1	1	1	1	1
	SPARES	3	3	3	3	9	3	3	3
TOTAL		11	16	17	22	52	8	13	10

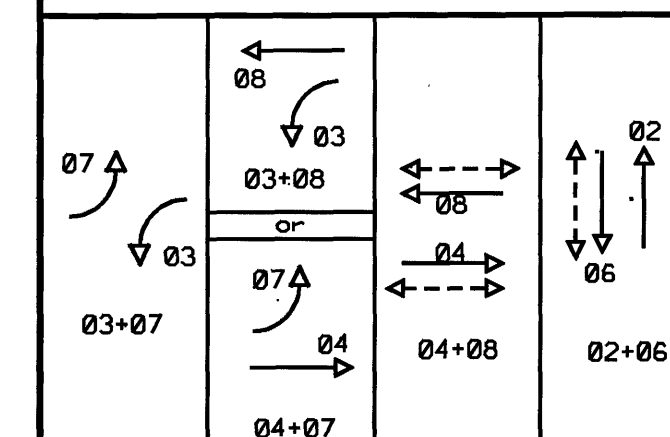
CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN							
		1	2	3	4	5	6	7	8
# 12	VIDEO POWER	3	3	6	6	12	3	3	
	SIG. COMMON	1	1	1	1	1	1	1	1
	LUMINAIRE	2	2	2	2		2	2	
	TOTAL	3	3	3	3	1	3	3	1
# 10	COAX CABLE	1	1	2	2	4	1	1	
	04 DETECTOR				2	2			
	08 DETECTOR					2			
	0 DETECTOR								
	0 DETECTOR								
	0 DETECTOR					2			
TOTAL					2	4		2	

GENERAL NOTE

SEE SHEET 6

PHASE DIAGRAM

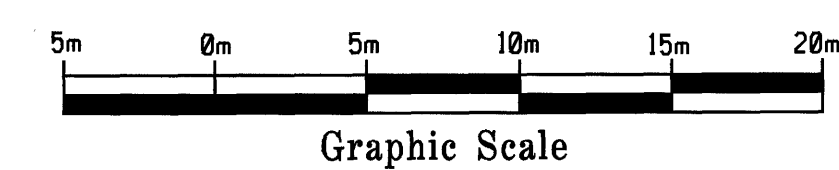


LEGEND

INDICATES VEHICLE DETECTION AREA FOR VIDEO DETECTION SYSTEM.

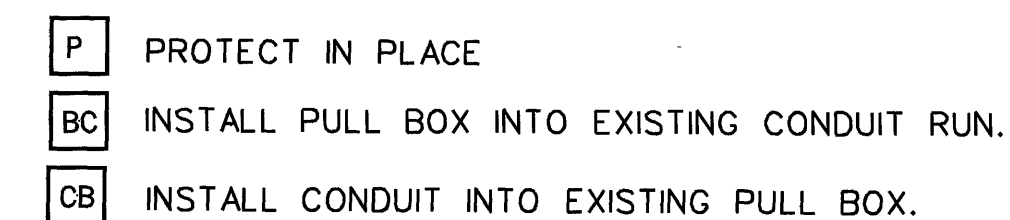
CLOSED CIRCUIT TELEVISION

P PROTECT IN PLACE
CB INSTALL CONDUIT INTO EXISTING PULL BOX
AB ABANDON

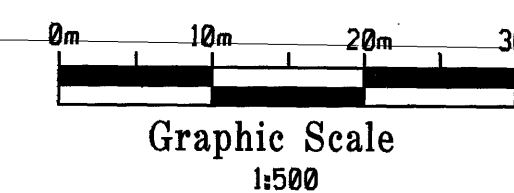


ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
BALL ROAD AT PERDIDO STREET	
SIGNAL PLAN	
DESIGNED: T. PHAM/L. ABAD	CHECKED: L. ABAD
DRAWN: T. PHAM	DATE: JULY 98
SCALE: AS SHOWN	DRAWING NO. EC42001
DATE: 7/21/98	SHEET 3 OF 7

File Name: SDGN-FILE-NAMES
Date Plotted: dd-mm-yy hh:mm



- ① — FURNISH & INSTALL 25 PAIR #22 TWISTED, SHIELDED INTERCONNECT TELEPHONE CABLE.
- ② — FURNISH & INSTALL 64 mm (2 1/2") RIGID CONDUIT.
- ③ — SAWCUT AND REMOVE EXISTING CONCRETE PANEL.
- ④ — REMOVE AND REPLACE EXISTING #5 PULL BOX WITH #6 PULL BOX WITH 45° CONDUIT SWEEPS PER DETAIL "A" ON SHEET 6.



		11-99 AS-BUILT UPDATE. T.I.E.	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
7/27/98 DATE			

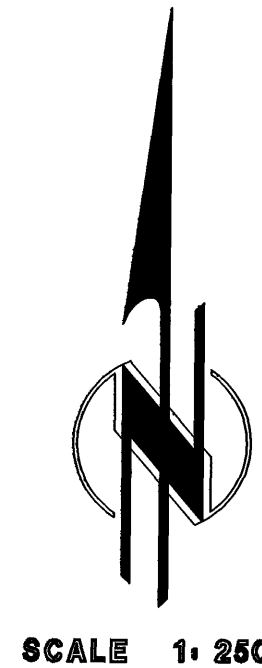
IGNACIO GONZALEZ
COUNTY FACILITIES ENGINEER

4
OF 7

THE BROOKHURST CENTER

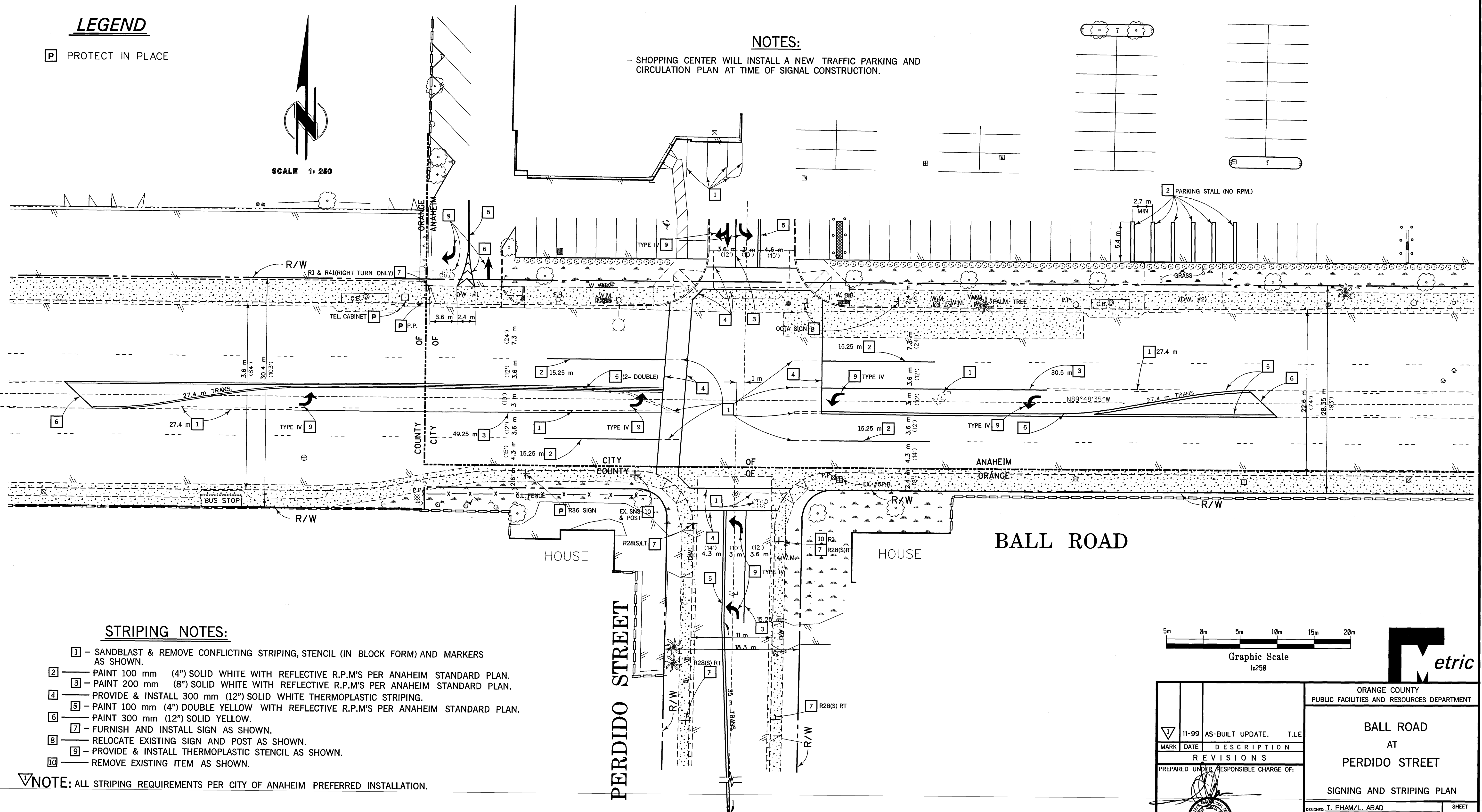
LEGEND

P PROTECT IN PLACE



NOTES:

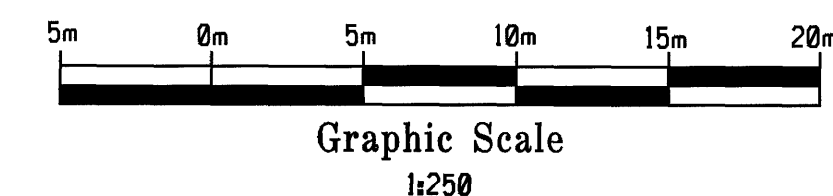
- SHOPPING CENTER WILL INSTALL A NEW TRAFFIC PARKING AND CIRCULATION PLAN AT TIME OF SIGNAL CONSTRUCTION.



STRIPING NOTES:

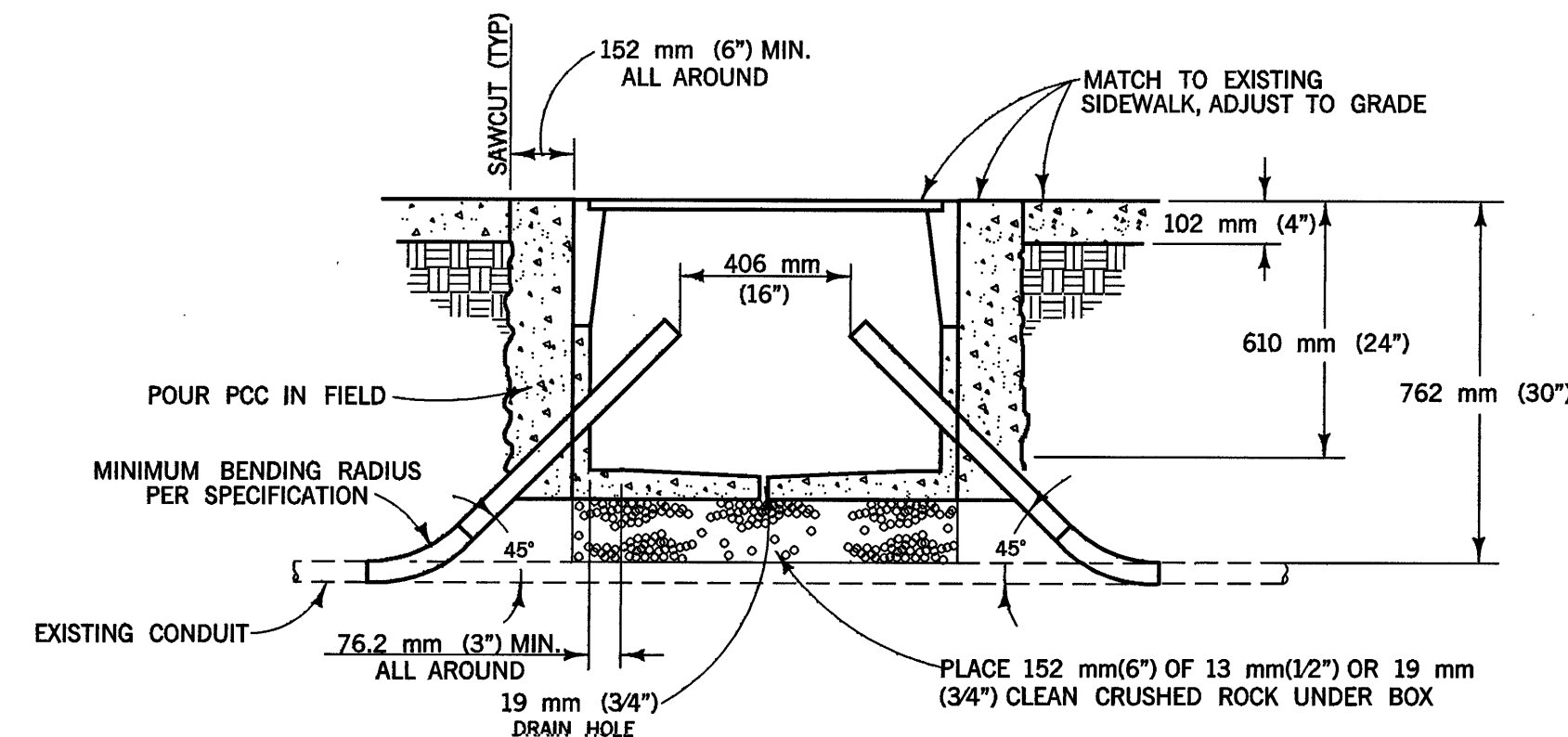
- 1 - SANDBLAST & REMOVE CONFLICTING STRIPING, STENCIL (IN BLOCK FORM) AND MARKERS AS SHOWN.
- 2 - PAINT 100 mm (4") SOLID WHITE WITH REFLECTIVE R.P.M'S PER ANAHEIM STANDARD PLAN.
- 3 - PAINT 200 mm (8") SOLID WHITE WITH REFLECTIVE R.P.M'S PER ANAHEIM STANDARD PLAN.
- 4 - PROVIDE & INSTALL 300 mm (12") SOLID WHITE THERMOPLASTIC STRIPING.
- 5 - PAINT 100 mm (4") DOUBLE YELLOW WITH REFLECTIVE R.P.M'S PER ANAHEIM STANDARD PLAN.
- 6 - PAINT 300 mm (12") SOLID YELLOW.
- 7 - FURNISH AND INSTALL SIGN AS SHOWN.
- 8 - RELOCATE EXISTING SIGN AND POST AS SHOWN.
- 9 - PROVIDE & INSTALL THERMOPLASTIC STENCIL AS SHOWN.
- 10 - REMOVE EXISTING ITEM AS SHOWN.

NOTE: ALL STRIPING REQUIREMENTS PER CITY OF ANAHEIM PREFERRED INSTALLATION.

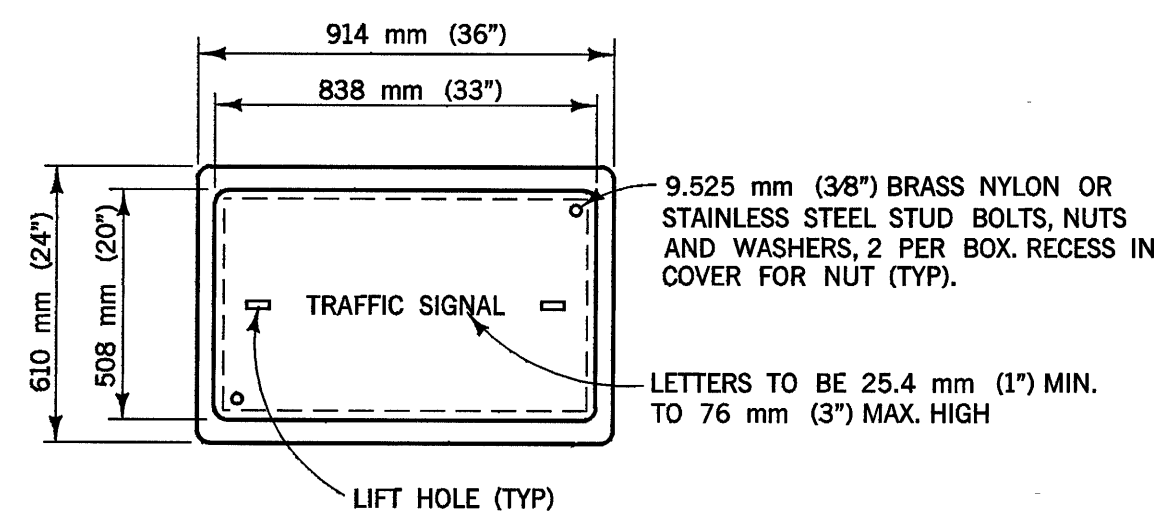


11-99 AS-BUILT UPDATE. T.L.E.		ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
DESIGNED: T. PHAM/L. ABAD		SHEET	
DRAWN: T. PHAM		5	
SCALE	DATE	CHECKED: L. ABAD	DRAWING NO.
AS SHOWN	JULY 98	EC42001	OF 7

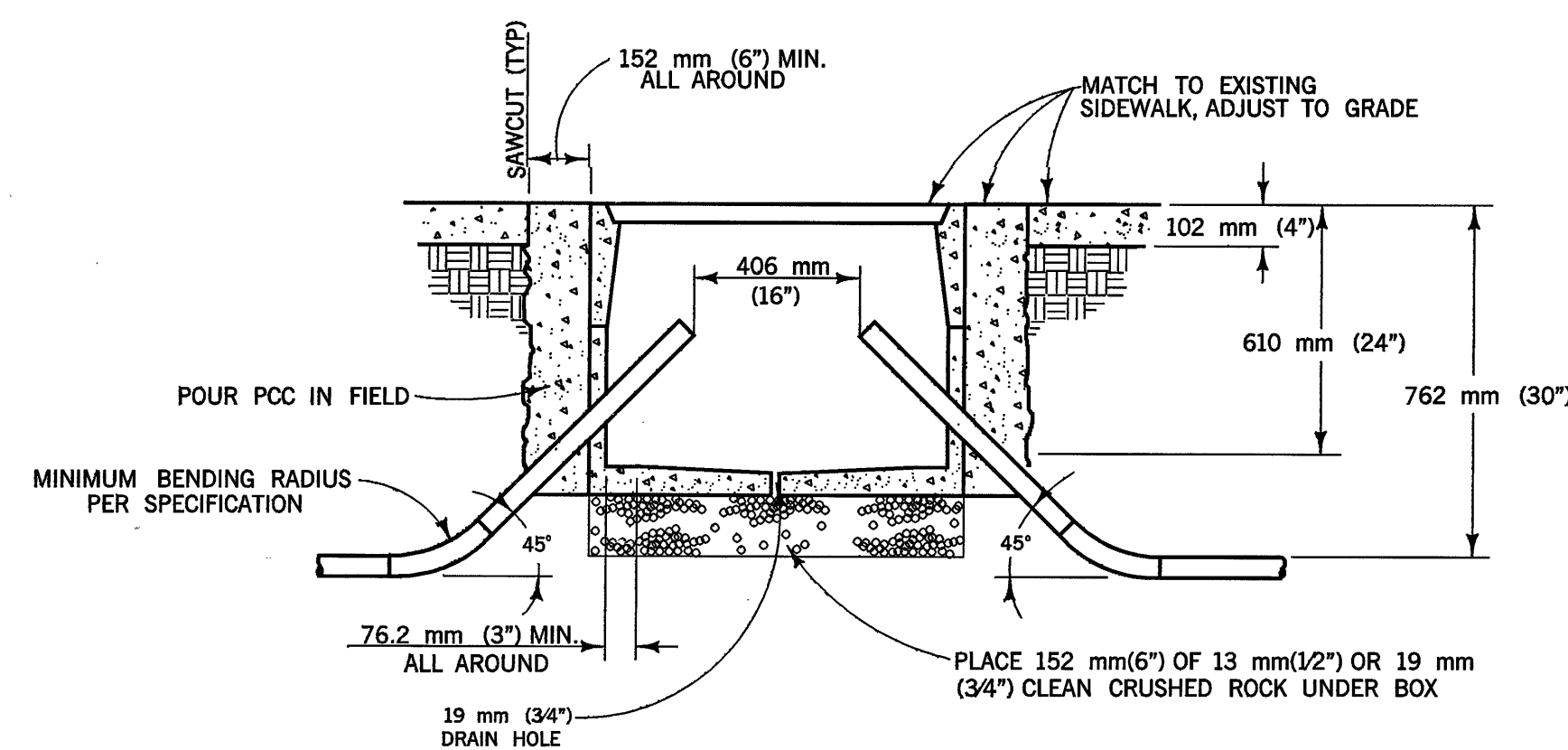
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Date Plotted: dd-mmm-yyyy hh:mm



TYPICAL INTERCONNECT PULL BOX INSTALLATION INTO EXISTING CONDUIT RUN



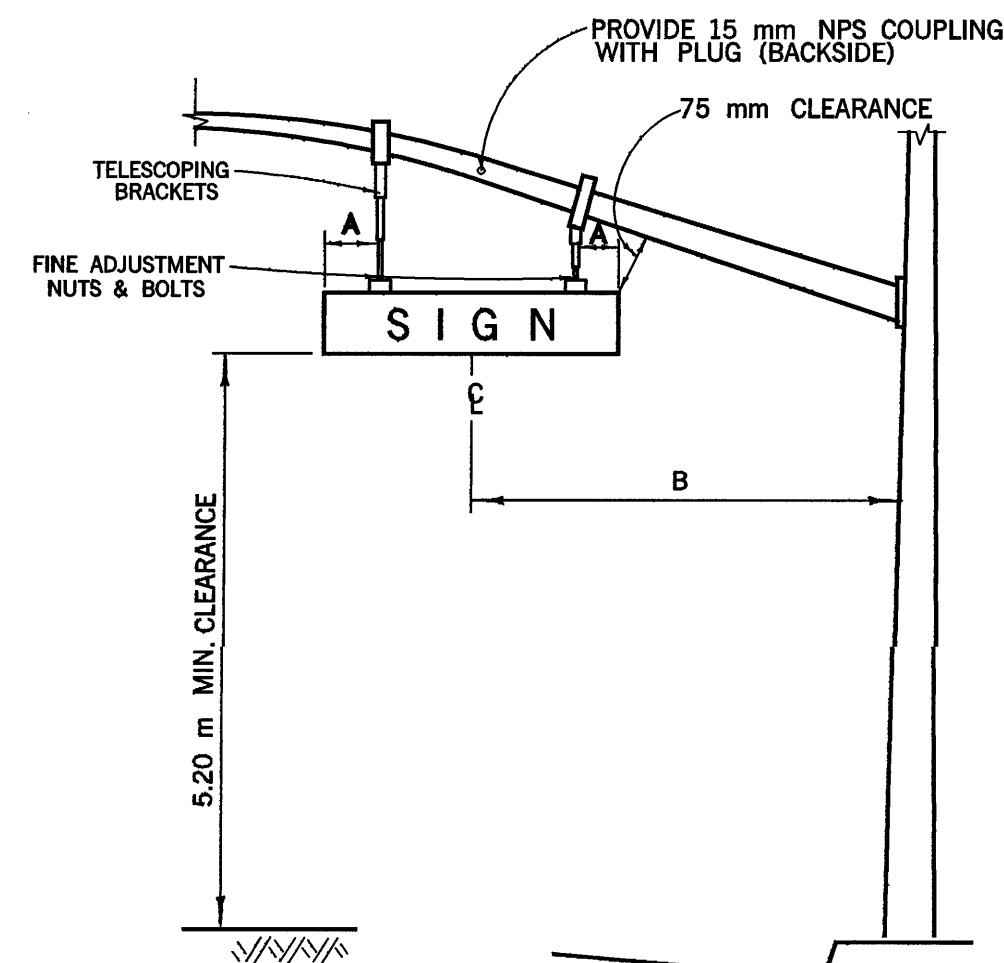
TYPICAL #6 PULL BOX COVER



#6 INTERCONNECT PULL BOX FRONT VIEW

DETAIL A

NOT TO SCALE

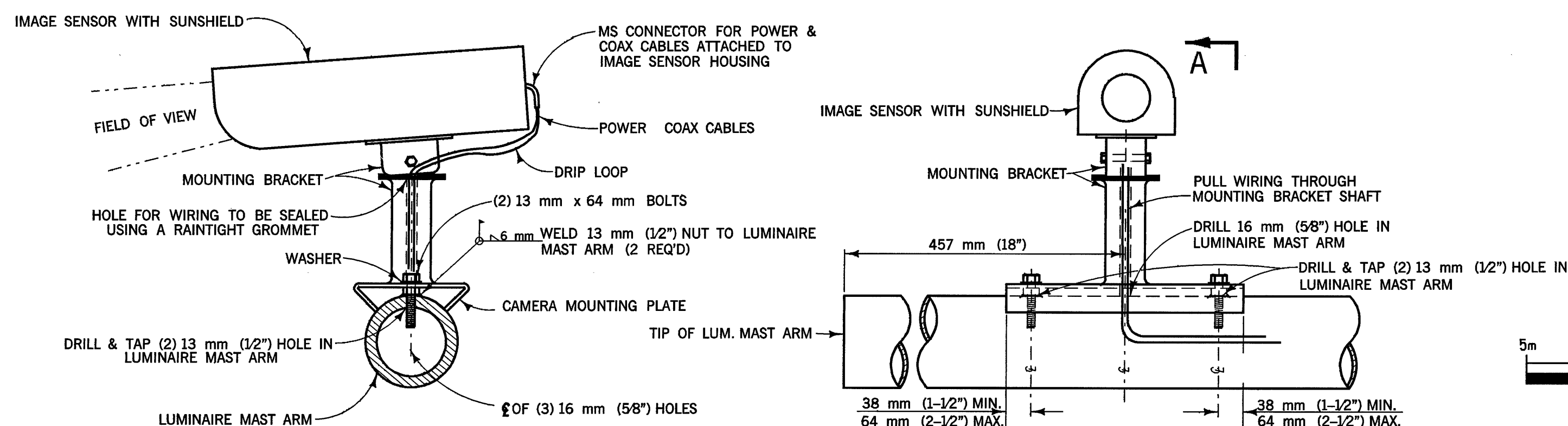


NOTES - DETAIL C

- A 450 mm (450 mm x 1800 mm SIGN); 600 mm (450 mm x 2400 mm SIGN)
- B 3.20 m CENTERLINE OF SIGN TO FACE OF POLE

DETAIL B

REFLECTORIZED STREET NAME SIGN COMPONENTS
NOT TO SCALE



SECTION A-A

NOT TO SCALE

NOTE:

- CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR LUMINAIRE MAST ARM AND POLE MOUNTED IMAGE SENSOR CAMERA ASSEMBLIES.

LUMINAIRE MAST ARM MOUNT

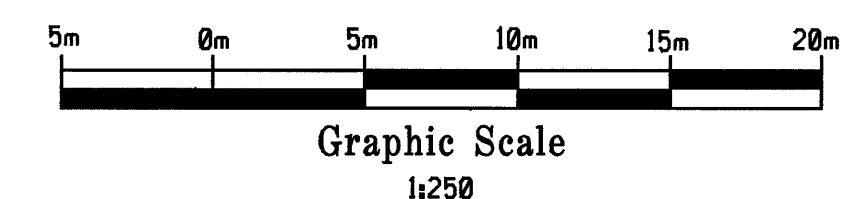
NOT TO SCALE

IMAGE SENSOR CAMERA MOUNTING DETAIL

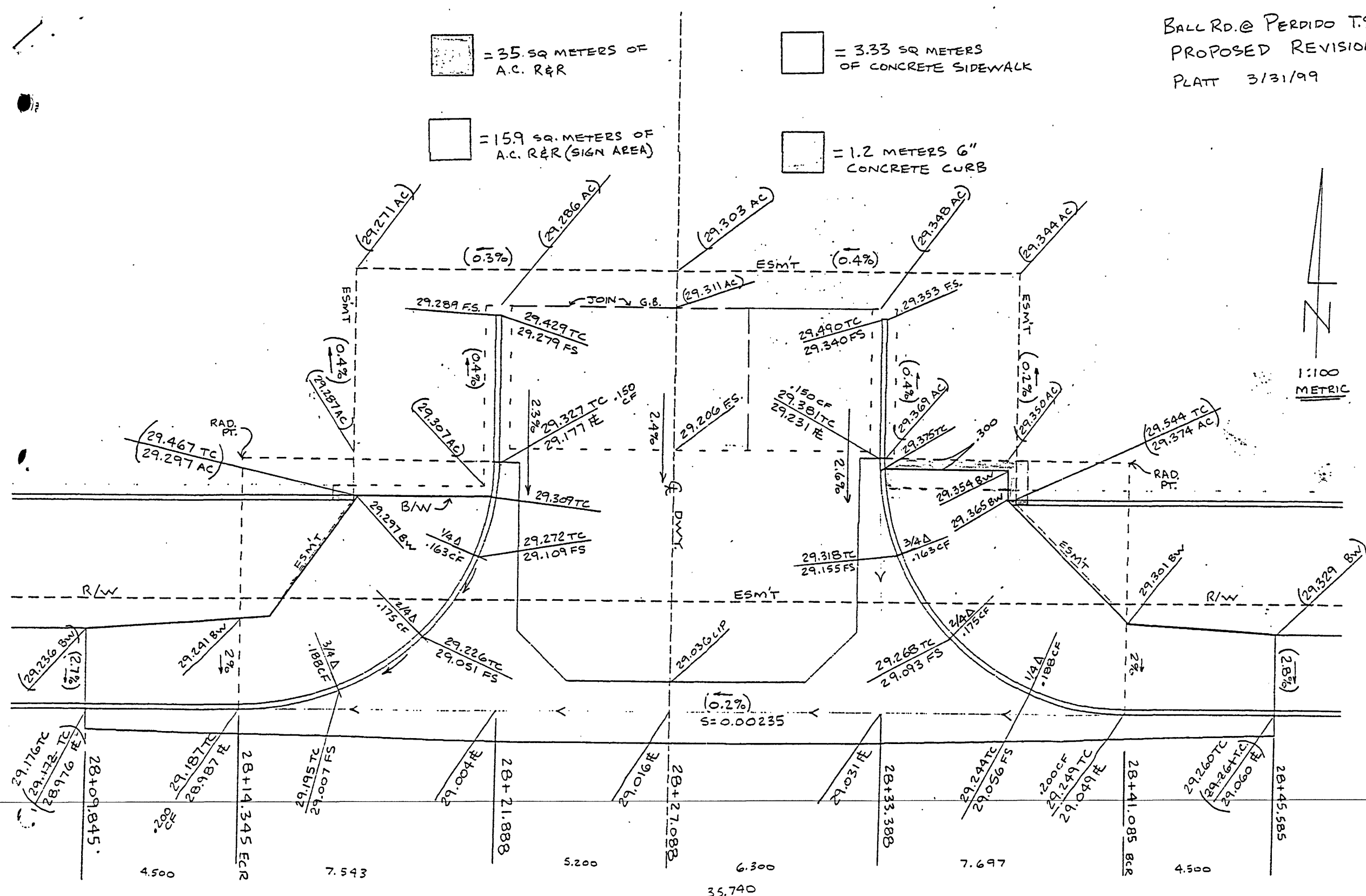
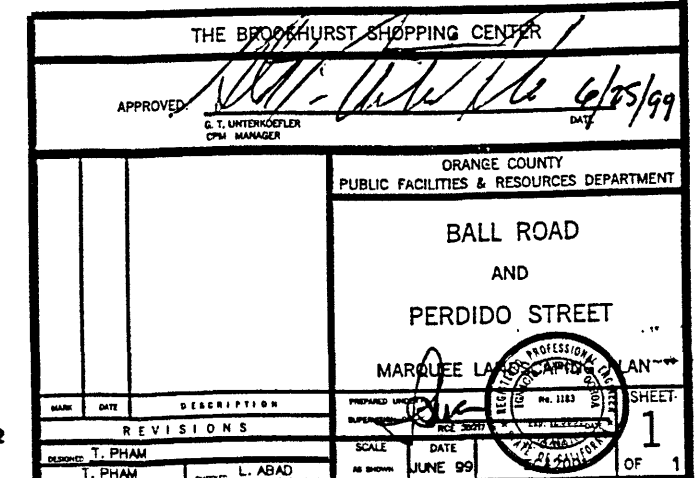
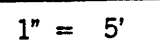
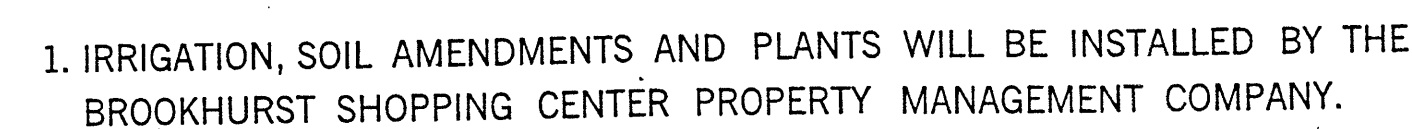
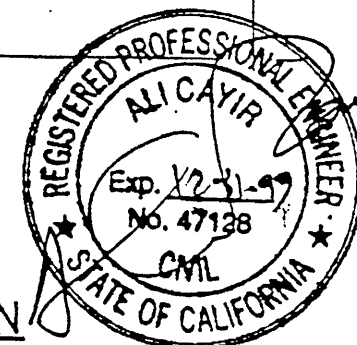
NOT TO SCALE

GENERAL NOTES :

- ALL WORK SHALL CONFORM TO THE CURRENT CITY OF ANAHEIM STANDARDS AND SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
- THE ENGINEER SHALL APPROVE THE POLE AND DETECTOR LOCATION PRIOR TO INSTALLATION BY THE CONTRACTOR.
- ALL PULL BOXES SHALL BE #5 UNLESS SHOWN OTHERWISE.
- ALL NEW VEHICLE INDICATIONS SHALL BE 300 mm (12\") WITH LOUVERED BACKPLATES.
- ALL CONDUIT SIZES SHALL BE AS FOLLOWS, UNLESS OTHERWISE INDICATED.
 - 38 mm (1 1/2\") FROM 1A POLE TO PB.
 - 50 mm (2\") FROM OTHER POLE TO PB.
 - 64 mm (2 1/2\") FOR ALL OTHERS.
- CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST THREE WEEKS PRIOR TO BEGINNING WORK, AS FOLLOWS:
 - USA 1-800-422-4133
 - MWD 1-213-250-6426 (CHARLES POLING)
 - SCE 1-714-973-5414 (DON LAUTENSCHLEGER)
- THE CONTRACTOR SHALL FURNISH AND INSTALL CONDUCTORS AND CABLES AS NEEDED TO PROVIDE THE INTENDED SIGNAL OPERATION INCLUDING LOOP DETECTORS CABLES, AND SIGNAL LIGHTING SERVICE WIRES NOTED ON THE PLANS.
- PROTECT ALL WATER SERVICES, FIRE HYDRANTS AND VALVES IN PLACE.
- NEW PEDESTRIAN SIGNALS SHALL BE SOLID STATE WITH INTERNATIONAL SYMBOL DISPLAYS.
- ALL CROSSWALKS, LEGENDS, STOPBARS AND ARROWS SHALL BE THERMOPLASTIC.
- ALL LOOP DETECTORS SHALL BE INSTALLED PER ANAHEIM STANDARD DETAIL 410.
- PULL BOX COVERS SHALL BE MARKED "INTERCONNECT" PER CALTRANS STANDARD SPECS SECTION 86-2.06B.
- MINIMUM BEND RADIUS OF 914 mm (36\") SHALL BE MAINTAINED ON ALL CONDUITS.
- ADDITIONAL CONDUIT ENTRANCES AS SHOWN IN THE PLANS.
- BOTTOM OF PULL BOX SHALL BE GROUTED.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY LINES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE TO THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND AGENCIES AFFECTED PRIOR TO BEGINNING CONSTRUCTION IN THE VICINITY OF THEIR RESPECTIVE FACILITIES.
- THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE No. 1-800-422-4133, TWO WORKING DAYS BEFORE DIGGING. NO INSPECTION WILL BE PROVIDED BY THE CITY ENGINEER'S OFFICE, UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY USA.
- ALL EXISTING WATER FACILITIES ARE TO BE PROTECTED IN PLACE. CONTRACTOR PERFORMING THIS WORK IS RESPONSIBLE FOR ALL COSTS AS A RESULT OF ANY DAMAGED OR REPAIRS REQUIRED TO WATER FACILITIES. SMALL SERVICES (50 mm & SMALLER) ARE NOT SHOWN ON THESE PLANS, BUT MUST BE PROTECTED IN PLACE. NORMAL COVER IS 762 mm (30\"). IN CASE OF EMERGENCY CONTACT UTILITY OPERATIONS (714)282-5586 OR WATER ENGINEERING (714)765-5196.



ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
DETAIL SHEET	
MARK	DATE
DESCRIPTION	
REVISIONS	
PREPARED UNDER RESPONSIBLE CHARGE OF:	
DESIGNED: T. PHAM/L. ABAD	CHECKED: L. ABAD
SCALE: AS SHOWN	DATE: JULY 98
DRAWING NO.: EC42001	SHEET: 6 OF 7



	11-99	ADDITIONAL SHEET.	T.L.
	MARK	DATE	DESCRIPTION
	R E V I S I O N S		
	PREPARED UNDER RESPONSIBLE CHARGE OF:		
	KONICHO OGURA COUNTY TRAFFIC ENGINEER REG. NO. 15017		
DATE			ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT
DESIGNED: _____ DRAWN: _____			SHEET 7 OF 7
SCALE AS SHOWN	DATE NOV. 99	DRAWING NO. EC-42001	