

RIVERSIDE CALIFORNIA



PUBLIC WORKS DEPARTMENT

UNIVERSITY AVENUE WIDENING

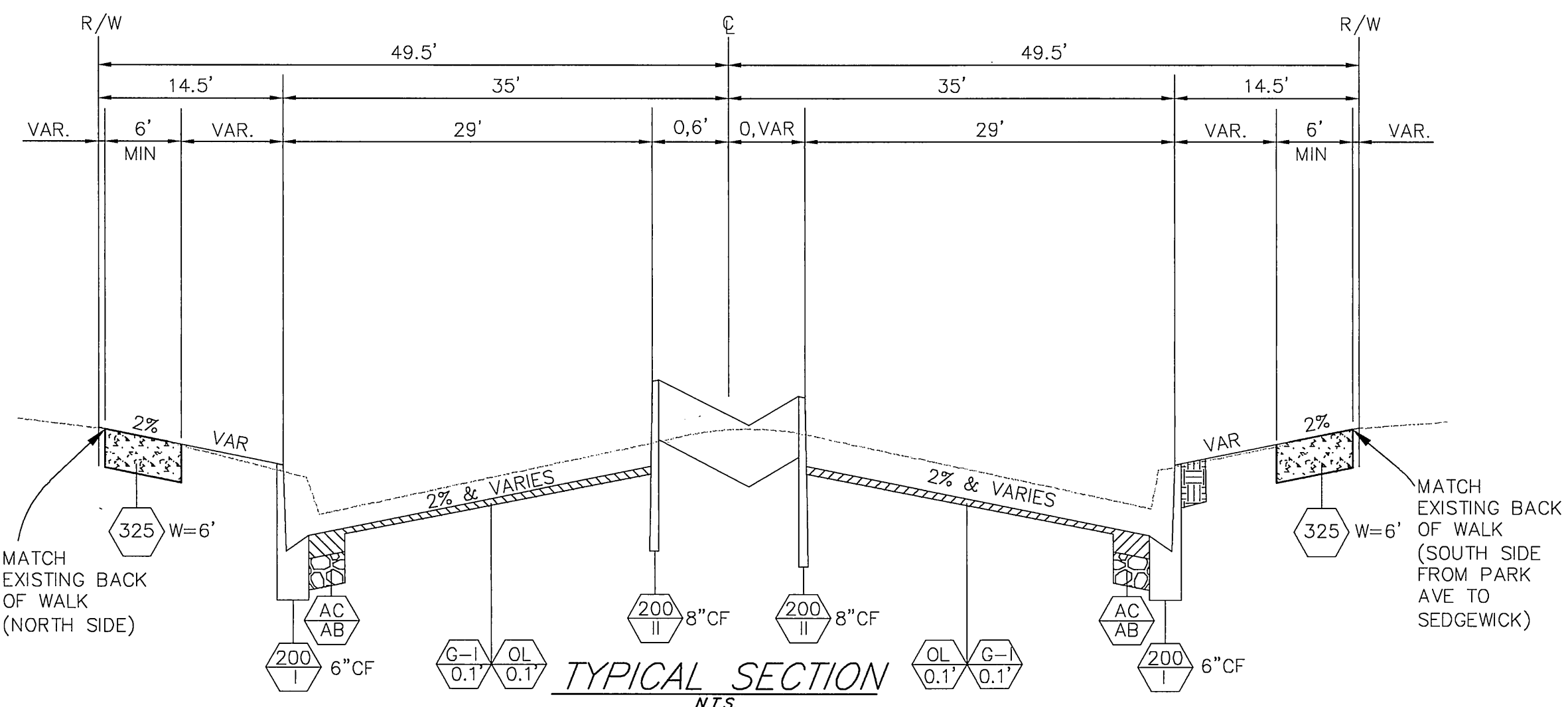
MULBERRY STREET TO EUCALYPTUS AVENUE

GENERAL CONSTRUCTION NOTES

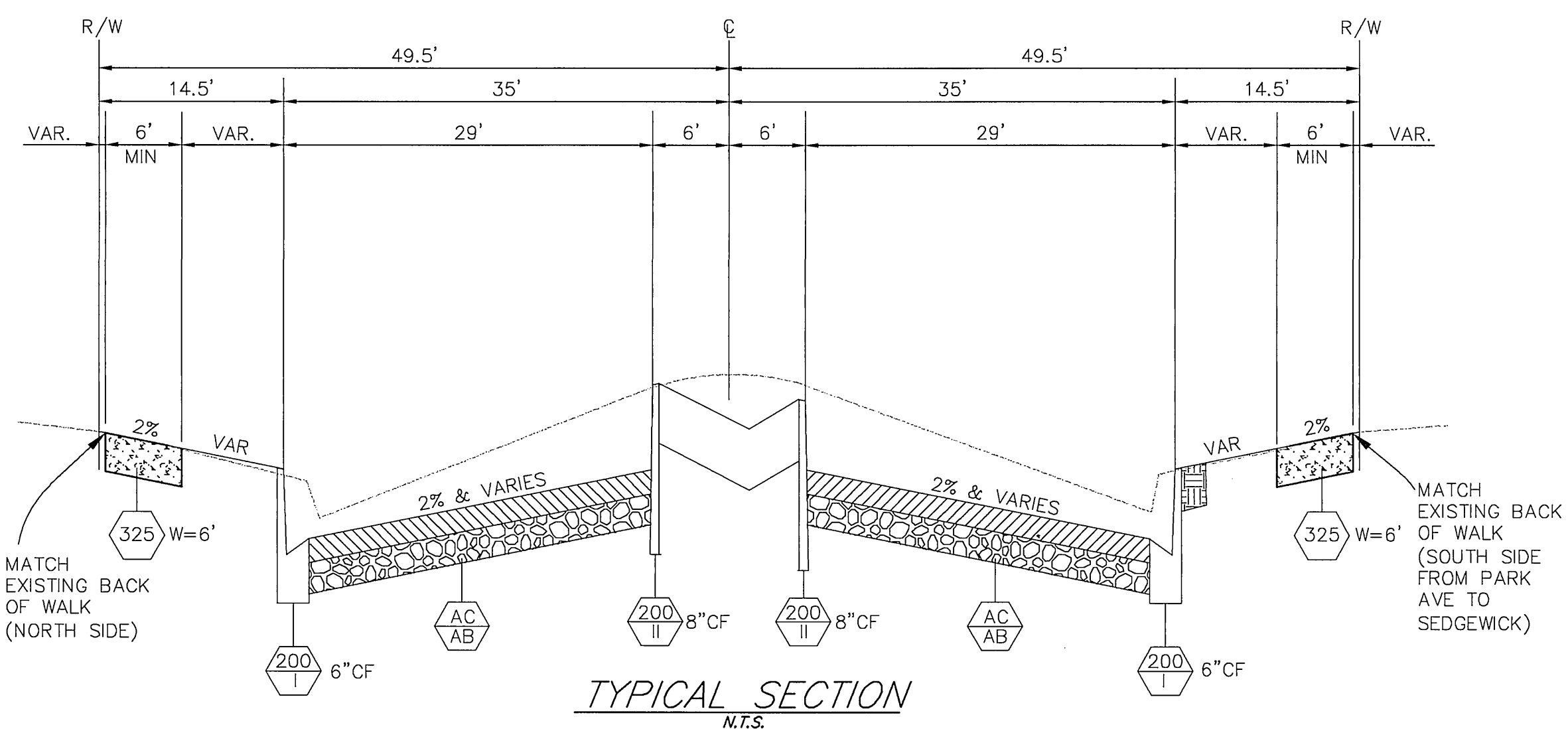
- EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN. IF THE COVER OF A UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. UTILITIES SHOWN IN THE PROFILE AS \rightarrow INDICATES THAT THE COVER IS UNKNOWN, BUT THE UTILITY IS NOT EXPECTED TO CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- ALL ELEVATIONS SHOWN ON THE PLANS SHALL BE STAKED IN THE FIELD.
- PRIME CONTRACTORS BIDDING THIS WORK SHALL HAVE A CLASS "A" LICENSE.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DWGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2003 EDITION.
- TRIM EDGE OF EXISTING PAVEMENT WHERE NEW PAVEMENT JOINS TO A SMOOTH STRAIGHT LINE.

SPECIFIC CONSTRUCTION NOTES

- NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- ADJUST SEWER, STORM DRAIN, ELECTRIC OR WATER MANHOLE OR GATE VALVE TO GRADE. ADJUSTMENT TO GRADE OR RELOCATION OF GAS AND TELEPHONE COMPANY'S FACILITIES WILL BE DONE BY OTHERS.
- CONSTRUCT STRUCTURAL SECTION AC OVER AB, THICKNESS PER PLAN. (SEE SHEET 15)
- CONSTRUCT 0.10' THICK MINIMUM AC OVERLAY
- WATER METER TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION. THE METER BOX IS TO BE ADJUSTED TO GRADE BY THE CONTRACTOR.
- REMOVE EXISTING STREET LIGHT. SEE LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS.
- REMOVE AND RECONSTRUCT CHAIN LINK FENCE AT RIGHT OF WAY LINE. NEW FENCE HEIGHT TO MATCH EXISTING.
- COLD MILL EXISTING AC 0.10' BELOW PROPOSED FINISH SURFACE ON PLANS AND AS DESCRIBED IN SPECIAL PROVISIONS
- FIRE HYDRANT TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION
- POWER POLE TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, ELECTRIC DIVISION.
- REMOVE AND RELOCATE BUS BENCH
- REMOVE TREE, CLASS PER PLAN
- RELOCATE TREE. SEE LANDSCAPE PLANS SHEETS 18 TO 34
- RELOCATE BY OTHERS
- RELOCATE BY CITY FORCES



STA 24+68.13 TO 27+50
&
STA 42+50 TO 44+92.89



STA 27+50 TO 42+50

SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	CONSTRUCTION DETAILS
4	DRAINAGE DETAILS
5-12	STREET IMPROVEMENTS PLAN AND PROFILE
13-14	MEDIAN DRAIN IMPROVEMENTS
15	PAVING PLAN
16-17	SIGNING AND STRIPING PLAN
18-34	LANDSCAPING PLANS
35-37	TRAFFIC SIGNAL PLANS



PROJECT LOCATION MAP

N.T.S.

CONSTRUCTION LEGEND

CENTER LINE		TOP OF SLOPE	
RIGHT-OF-WAY		TOE OF SLOPE	
SUBDIVISION LOT LINE		DIRECTION OF FLOW	

EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

EXISTING UNDERGROUND UTILITIES:

SANITARY SEWER		TELEPHONE CONDUIT	
WATER LINE		ELECTRICAL CONDUIT	
STORM DRAIN		ELECTRICAL LIGHTING CONDUIT	
GAS LINE		TRAFFIC SIGNAL	
ABANDONED UTILITY		FIRE ALARM	

EXISTING TOPOGRAPHY:

	BLOCK WALL		TOP OF SLOPE
	BOARD FENCE		TOE OF SLOPE
	WIRE FENCE		DIRECTION OF FLOW
	CHAIN LINK FENCE		

	SANITARY SEWER M.H.		POLE & GUY ANCHOR		PEDESTRIAN PUSH BUTTON
	SANITARY SEWER CLEANOUT		POWER POLE		RAILROAD TRACKS
	STORM DRAIN M.H.		TELEPHONE POLE		RAILROAD SIGN
	IRRIGATION WEIR		TELEPHONE RISER		RAILROAD SIGNAL
	WATER M.H.		JOINT USE POLE		TRAFFIC SIGNAL
	GAS M.H.		PULL BOX		TRAFFIC SIGNAL ON MAST ARM
	ELECTRIC M.H.		TRAFFIC SIGN		TRAFFIC SIGNAL PRESSURE DETECTOR
	TELEPHONE M.H.		PARKING METER		TRAFFIC SIGNAL LOOP DETECTOR
	WATER METER		FIRE ALARM BOX		STREET LIGHT & TRAFFIC SIGNAL ON MAST ARM
	FIRE HYDRANT		STREET NAME SIGN		STREET LIGHT (UPRIGHT)
	SPRINKLER HEAD		GAS METER		STREET LIGHT ON MAST ARM
	VALVE		MAIL BOX		STEEL POST
	AIR VALVE		FAUCET		WOOD POST
	AIR VENT		WALK-DON'T WALK PEDESTRIAN SIGNAL		
	BUS STOP SIGN		ELECTROLYSIS TEST STATION		
	BLOW-OFF VALVE		WHEEL STOP		
	IRRIGATION STAND PIPE		A.C. BERM		
	CONCRETE				
	ASPHALT				
	BUILDING				
	EDGE OF PAVEMENT				

DIGALERT

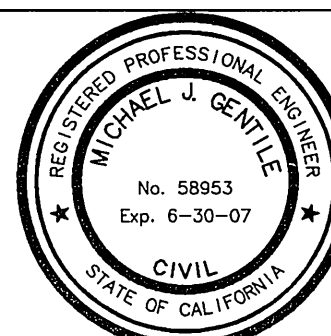
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
OF SOUTHERN CALIFORNIA

PSOMAS

1700 Iowa Avenue, Suite 160
Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)

ENGINEER IN RESPONSIBLE CHARGE

Michael J. Gentile
MICHAEL J. GENTILE
R.C.E. No. 58953 expires 6/30/07
DATE 3-5-2004



CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY:	BY:	DATE:	APPROVED BY:	BY:	DATE:
PRINCIPAL ENGINEER	DA	3/14/04	CITY ENGINEER	Shm Bnd	3/23/04
TRAFFIC DIVISION	CC	3/14/04			
PARKING DEPARTMENT	DE	3/14/04			
INSPECTION	DE	3/14/04			
SURVEYOR	DE	3/14/04			
STREET SERVICES	DE	3/14/04			

UNIVERSITY AVENUE WIDENING

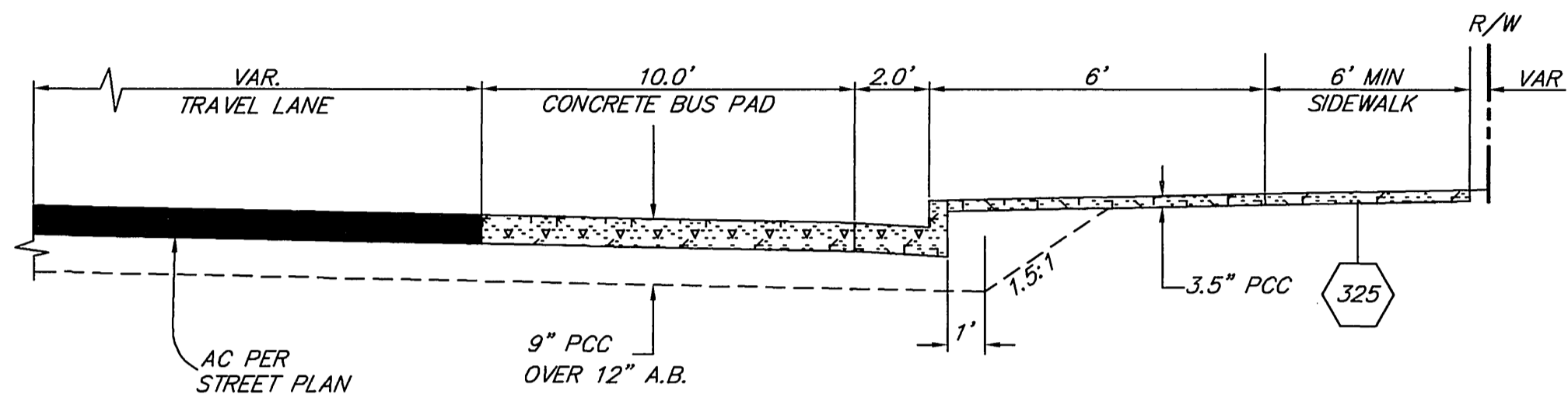
BETWEEN MULBERRY STREET AND EUCALYPTUS AVENUE

ACCT. NO. 9577830214-440302XX

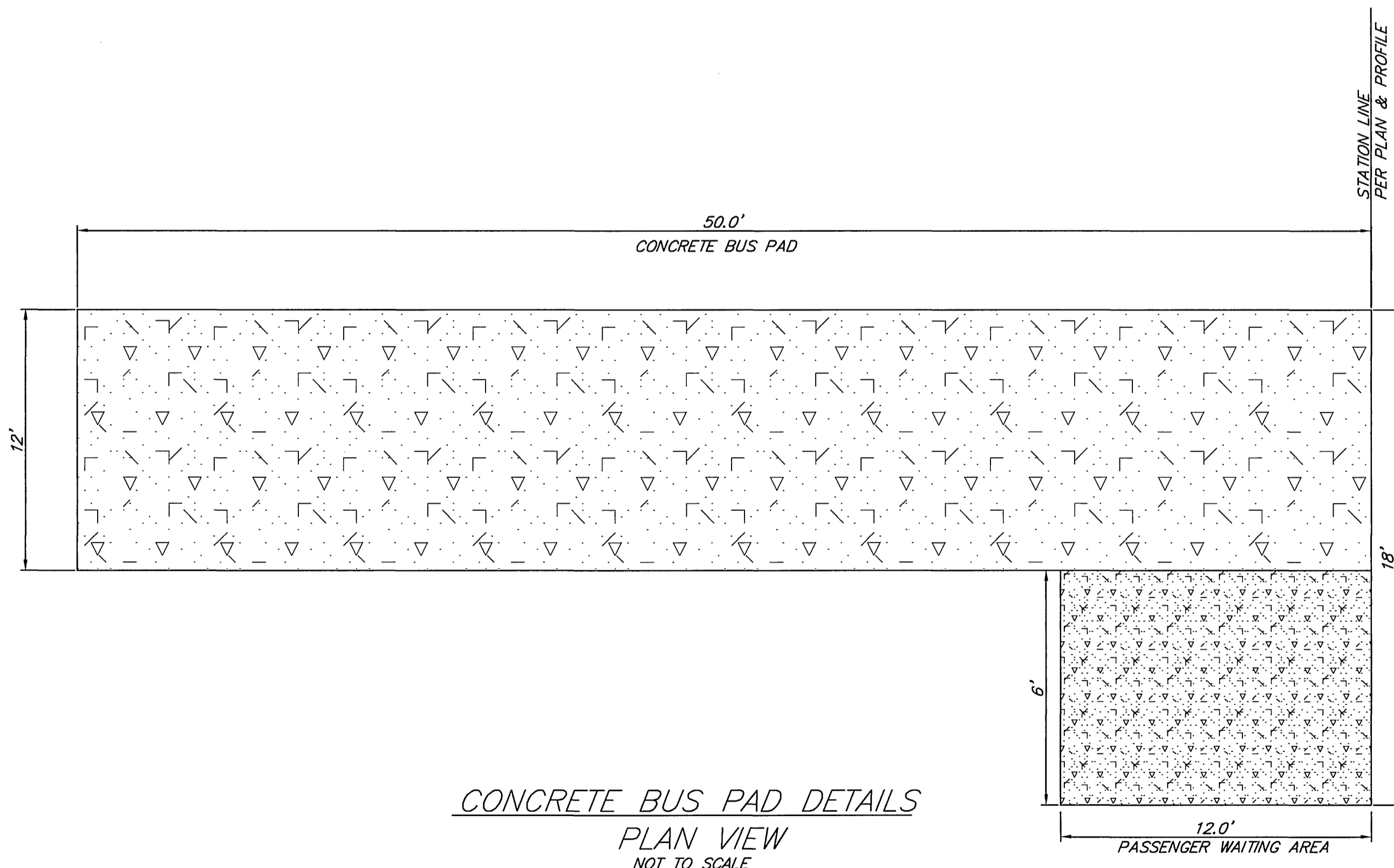
R-3747

SHEET 1 OF 37

PC-6074-S/P



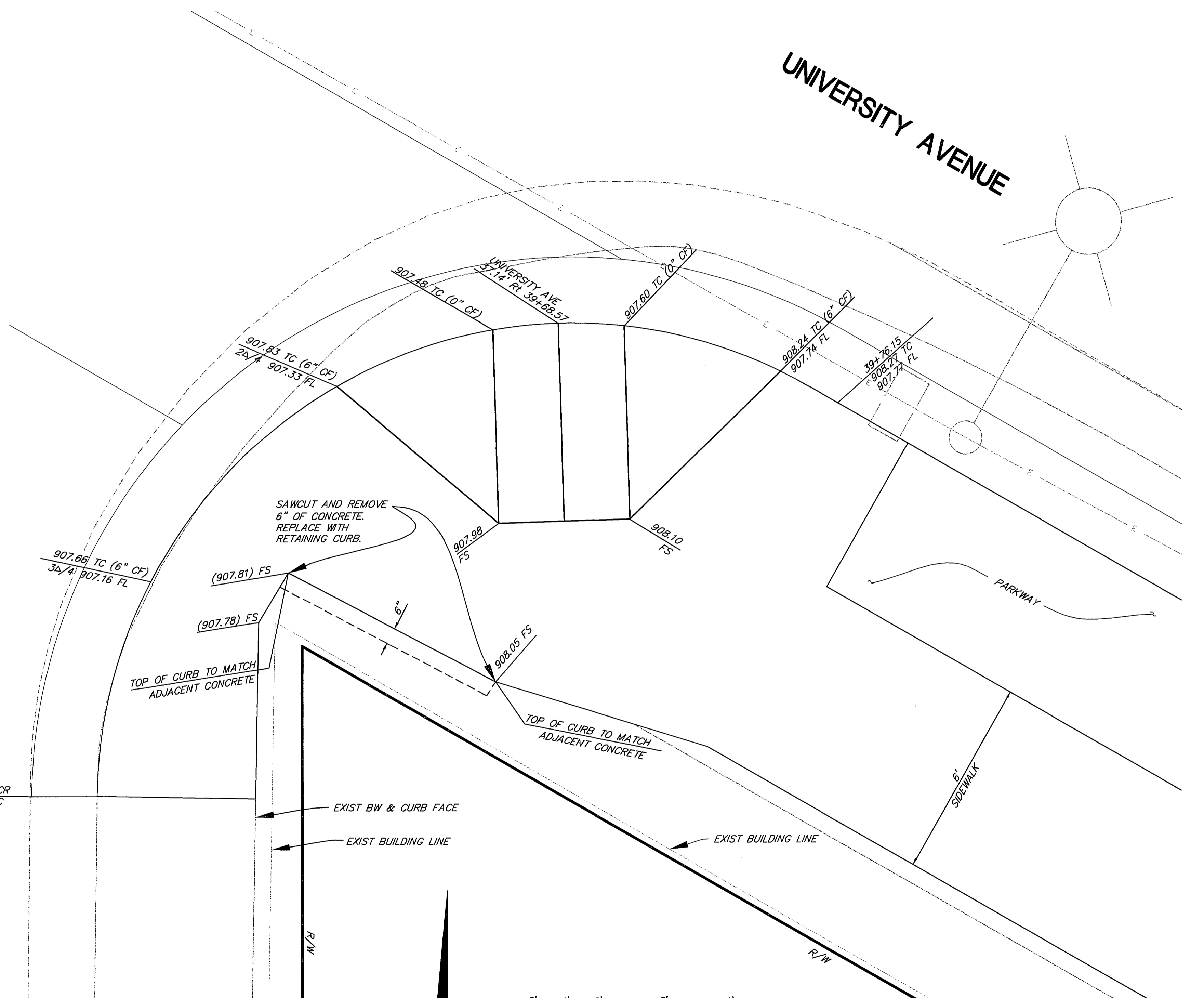
CONCRETE BUS PAD DETAILS
CROSS SECTION VIEW
NOT TO SCALE



CONCRETE BUS PAD DETAILS
PLAN VIEW
NOT TO SCALE

SEDGEWICK AVENUE

SEDGEWICK
9+26.92 BCR
(907.59) TC



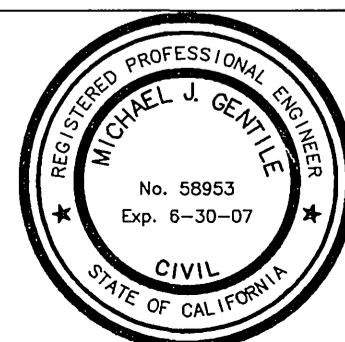
ACCESS RAMP DETAIL
NOT TO SCALE

PSOMAS

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ENGINEER IN RESPONSIBLE CHARGE

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MICHAEL J. GENTILE
R.C.E. No. 58953 expires 6/30/07
DATE 3-5-2008



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY:	BY:	DATE:	APPROVED BY:

UNIVERSITY AVENUE
WIDENING
CONSTRUCTION DETAILS

HORIZ. SCALE: VERT. SCALE:

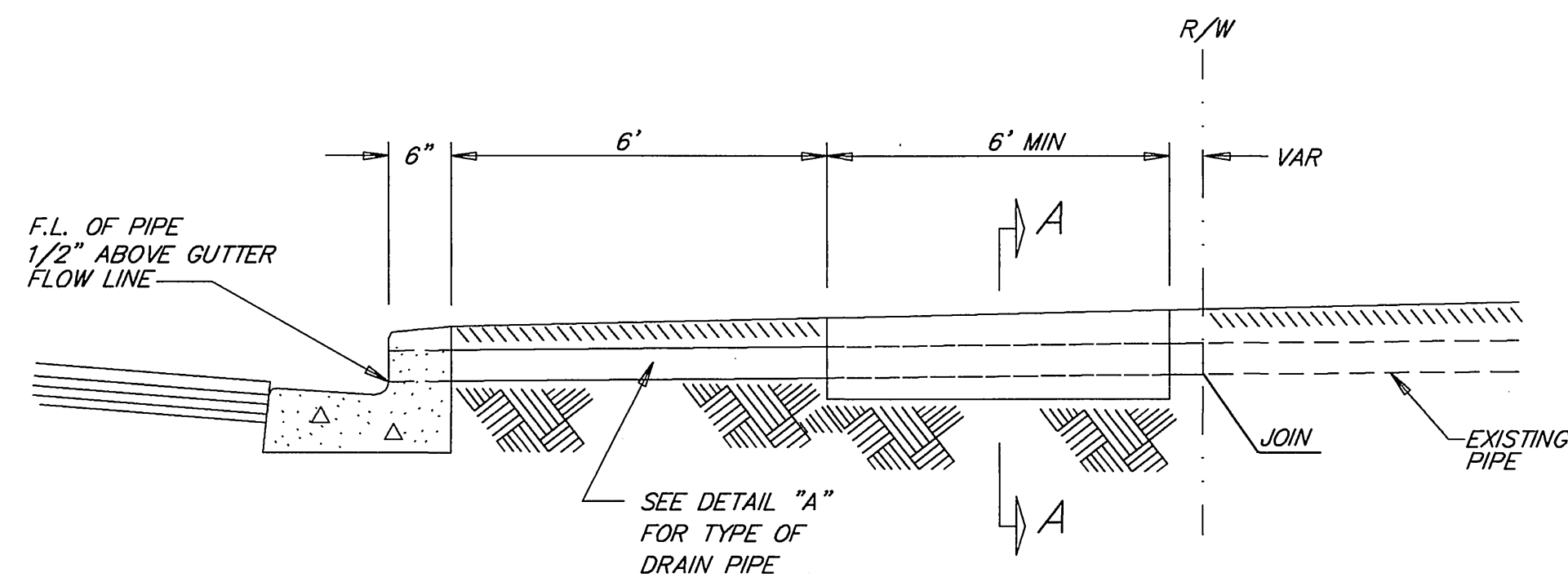
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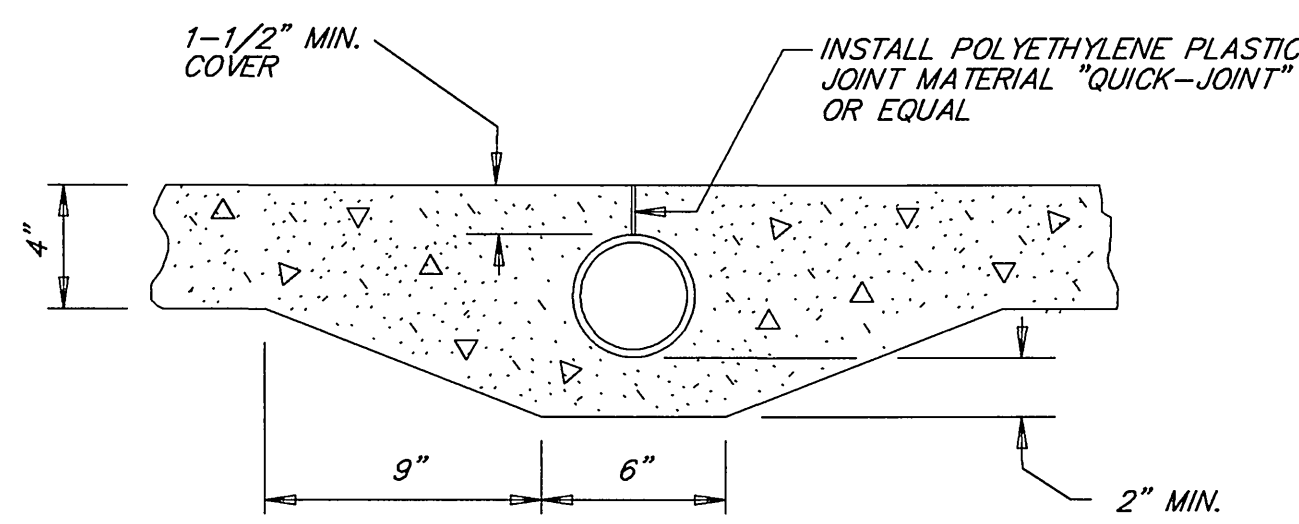
SHEET 2 OF 37

PC-6074-S/P

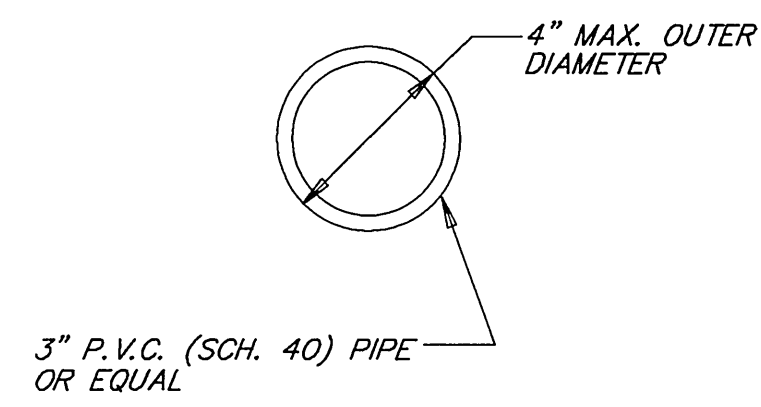
INDEXED 3-29-04 LTH



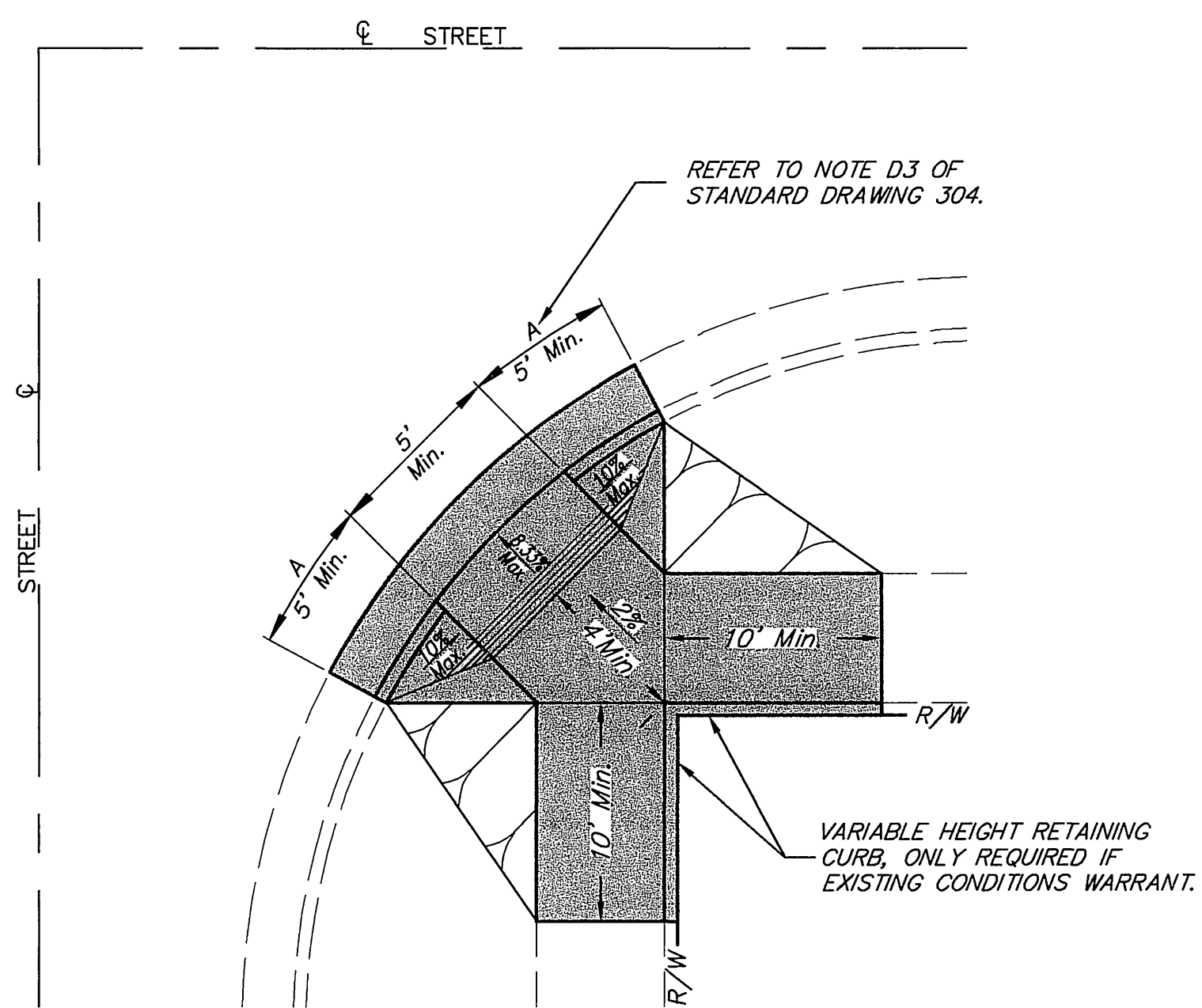
ELEVATION
NOT TO SCALE



SECTION A-A
NOT TO SCALE

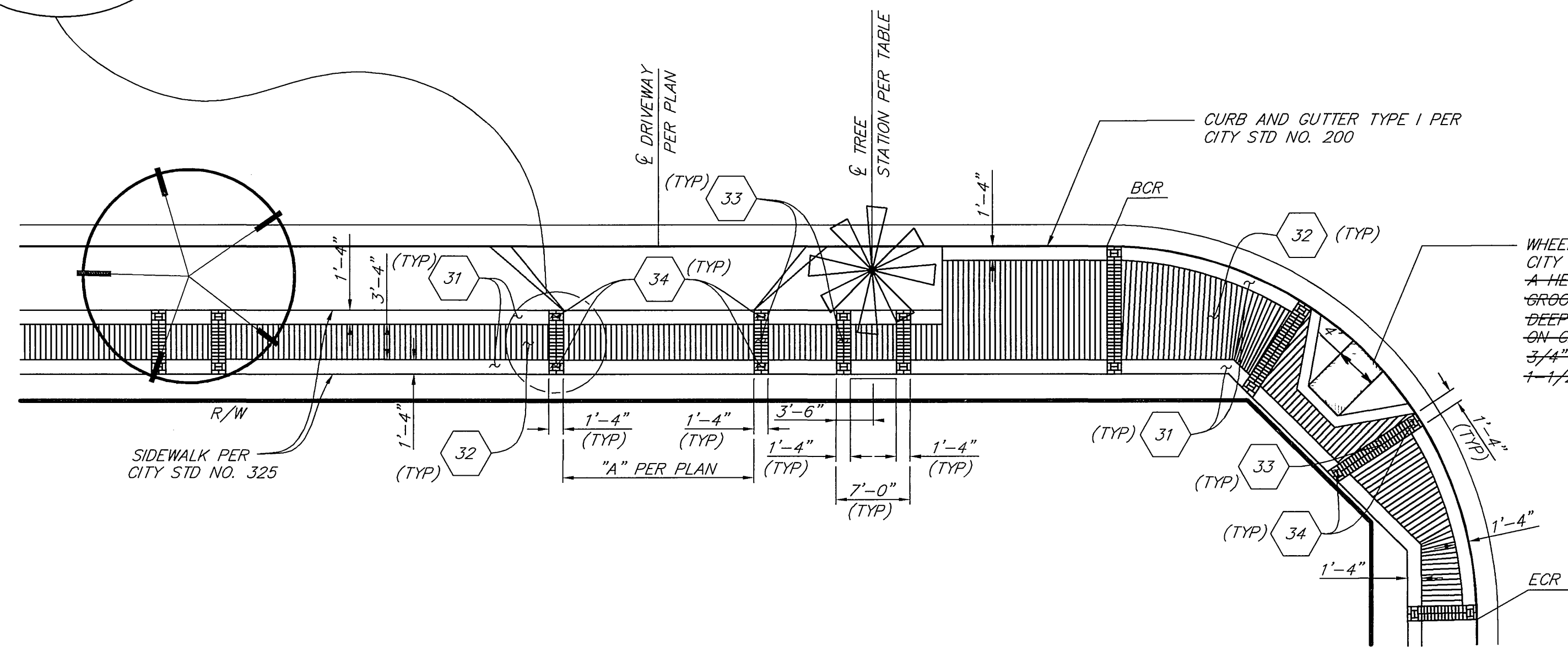
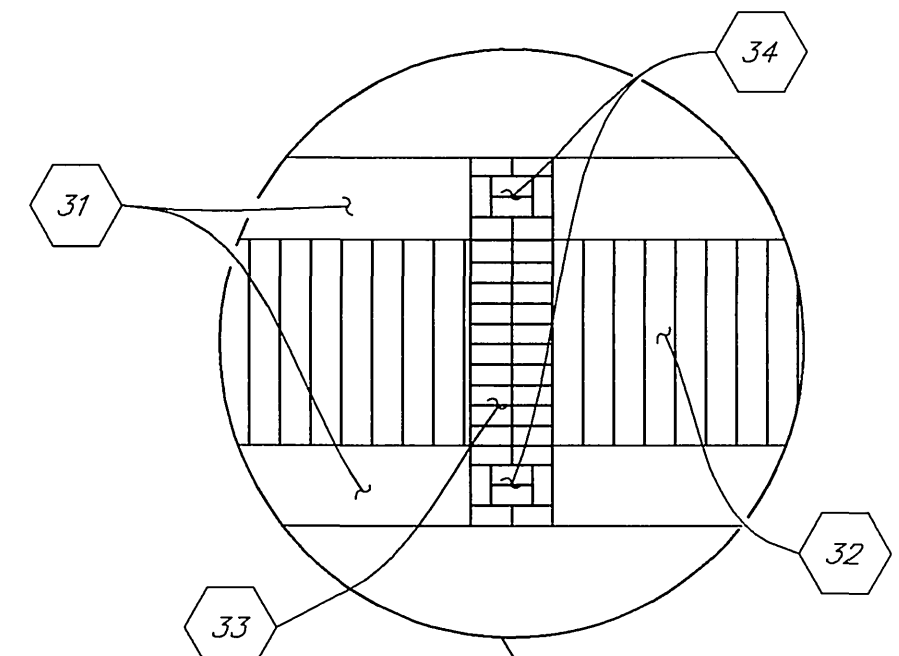


DETAIL A
NOT TO SCALE



MODIFIED WHEELCHAIR RAMP
STD. 304, TYPE IV M1
NOT TO SCALE

LL SIDE OF UNIVERSITY AVE	RT SIDE OF UNIVERSITY AVE
25+20	25+19
25+46	25+45
25+78	25+93
26+27	26+22
26+71	26+83
27+47	27+19
29+45	27+54
29+75	29+66
30+14	29+96
30+42	30+32
30+73	30+92
31+02	31+32
31+37	31+63
31+65	32+02
31+99	32+72
32+25	33+02
32+53	33+59
32+82	34+24
33+12	35+97
33+85	36+50
34+17	37+10
34+45	38+09
35+07	40+07
35+75	40+35
36+54	40+67
36+84	41+17
37+23	41+48
37+53	42+04
37+83	42+35
38+09	42+67
38+41	43+00
38+69	43+32
38+94	43+64
39+65	43+97
39+97	
42+53	
42+92	
43+52	
44+00	



CONCRETE SIDEWALK WITH STAMPED CONCRETE BANDING
NOT TO SCALE

WHEELCHAIR RAMP TYPE I PER CITY STD NO. 304, GROOVED IN A HERRINGBONE PATTERN WITH GROOVES 1/4" WIDE AND 1/2" DEEP APPROXIMATELY 1-1/2" ON CENTER, GROOVE SPACED AT 3/4" IN 12" BORDER AND 1-1/2" IN 4' APRON.

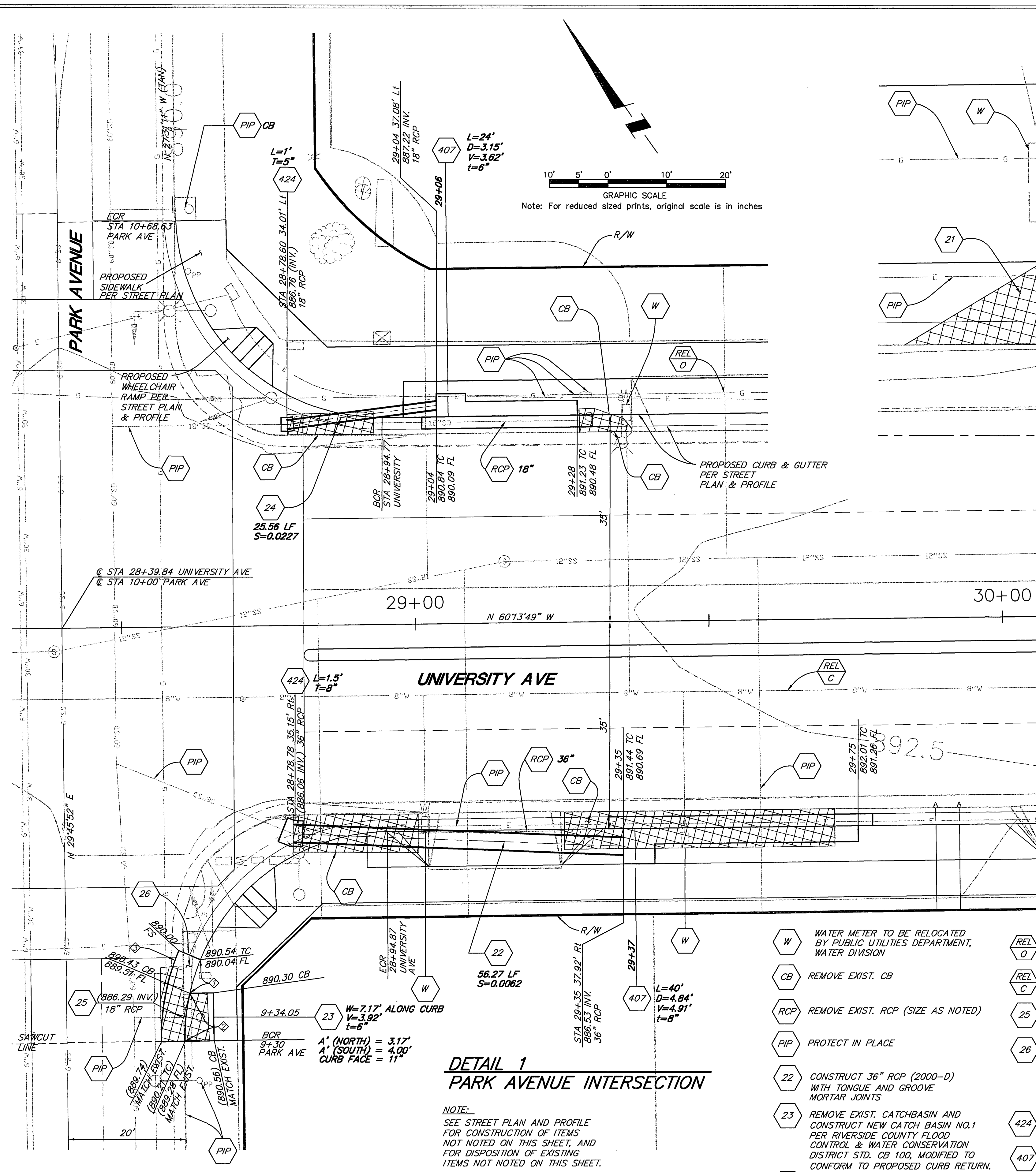
CONSTRUCTION NOTES

- 31 - NATURAL GRAY CONCRETE BANDING WITH SMOOTH WOOD FLOAT FINISH
- 32 - NATURAL GRAY CONCRETE SIDEWALK WITH LIGHT TO MEDIUM BROOM FINISH
- 33 - 16" WIDE, 4" THICK RED STAMPED CONCRETE BANDING, PATTERN AS SHOWN
- 34 - 16" WIDE, 4" THICK QUARRY RED STAMPED CONCRETE BANDING, PATTERN AS SHOWN

PRIVATE DRAINS THROUGH CURB DETAIL

- GENERAL NOTES:
1. STAMPED BRICK TO BE APPROXIMATELY 3-9/16" X 7-7/16" WITH GROOVE 3/8" WIDE X 1/8" TO 3/16" DEEP.
 2. STAMPED CONCRETE BANDINGS ARE PLACED AT DRIVEWAYS, TREES, BCR'S, ECR'S AND TYPE I WHEELCHAIR RAMPS.
 3. STAMPED CONCRETE BANDING SHALL BE EXTENDED ACCORDINGLY WHEN SIDEWALK IS WIDER THAN 6'.

<p>PSOMAS</p> <p>1700 Iowa Avenue, Suite 160 Riverside, CA 92507 (909) 787-8421 (909) 682-3379 (FAX)</p>	<p>ENGINEER IN RESPONSIBLE CHARGE</p> <p><i>Michael J. Gentile</i></p> <p>MICHAEL J. GENTILE R.C.E. No. 58953 expires 6/30/07 DATE 3-5-2004</p>		<p>CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT</p>		<p>UNIVERSITY AVENUE WIDENING</p> <p>CONSTRUCTION DETAILS</p>	<p>ACCT. NO. 9577830214-440302XX</p> <p>R-3747</p> <p>SHEET 3 OF 37</p> <p>PC-6074-S/P</p>
			<p>APPROVED BY: <i>Tom Boyd</i></p> <p>DATE: 3/22/04</p>	<p>BY: <i>Tom Boyd</i></p> <p>DATE: 3/22/04</p>		

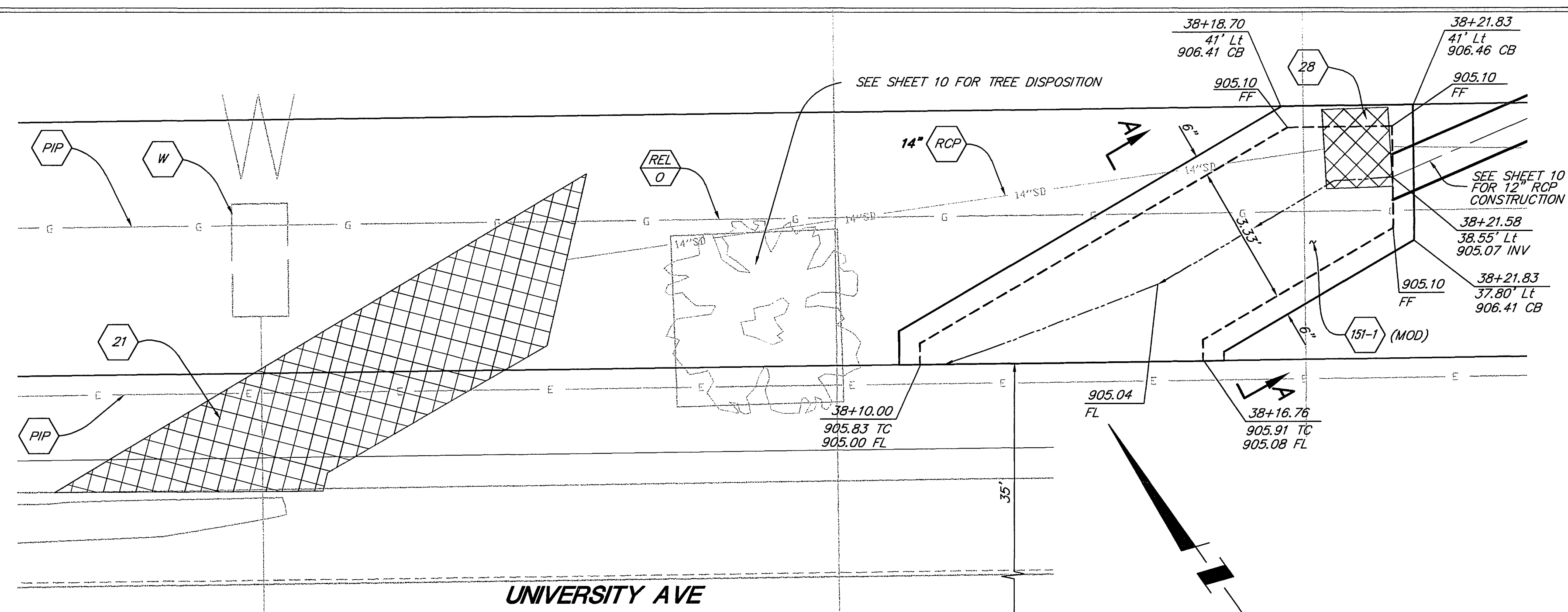


**DETAIL 1
PARK AVENUE INTERSECTION**

NOTE:
SEE STREET PLAN AND PROFILE FOR CONSTRUCTION OF ITEMS NOT NOTED ON THIS SHEET, AND FOR DISPOSITION OF EXISTING ITEMS NOT NOTED ON THIS SHEET.

- W WATER METER TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION
- CB REMOVE EXIST. CB
- RCP REMOVE EXIST. RCP (SIZE AS NOTED)
- PIP PROTECT IN PLACE
- 22 CONSTRUCT 36" RCP (2000-D) WITH TONGUE AND GROOVE MORTAR JOINTS
- 23 REMOVE EXIST. CATCHBASIN AND CONSTRUCT NEW CATCH BASIN NO.1 PER RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT STD. CB 100, MODIFIED TO CONFORM TO PROPOSED CURB RETURN.
- 24 CONSTRUCT 18" RCP (2000-D) WITH TONGUE AND GROOVE MORTAR JOINTS
- REL O RELOCATE BY OTHERS
- REL C RELOCATE BY CITY FORCES
- 25 CONNECT EXIST. 18" RCP TO NEW CB
- 26 CONSTRUCT LOCAL DEPRESSION PER RIVERSIDE CO. FLOOD CONTROL & WATER CONSERVATION DISTRICT STD. LD201 CASE C MODIFIED TO CONFORM TO PROPOSED CURB RETURN
- 424 CONSTRUCT CONCRETE COLLAR
- 407 CONSTRUCT CATCH BASIN
- W WATER METER TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION

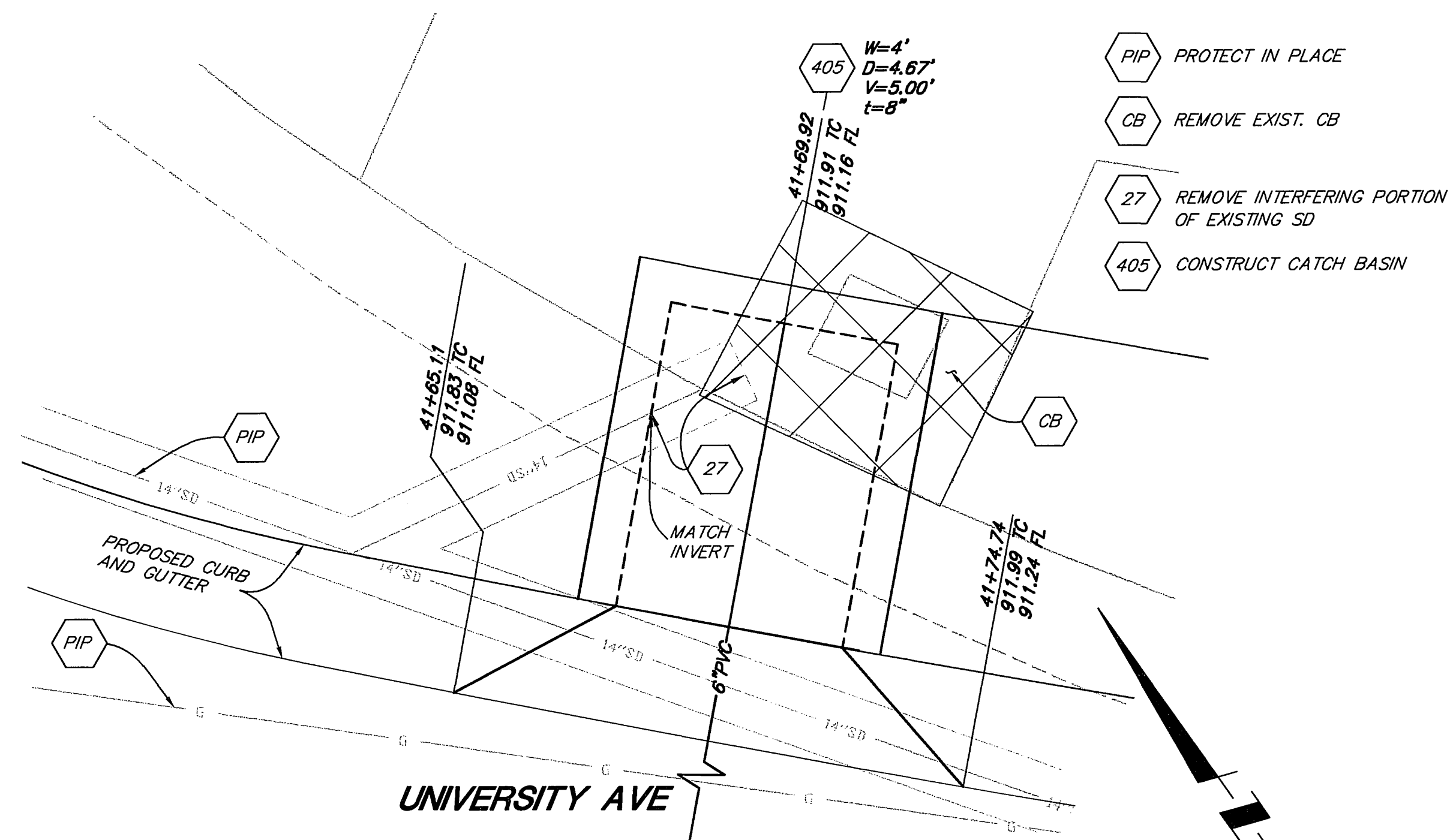
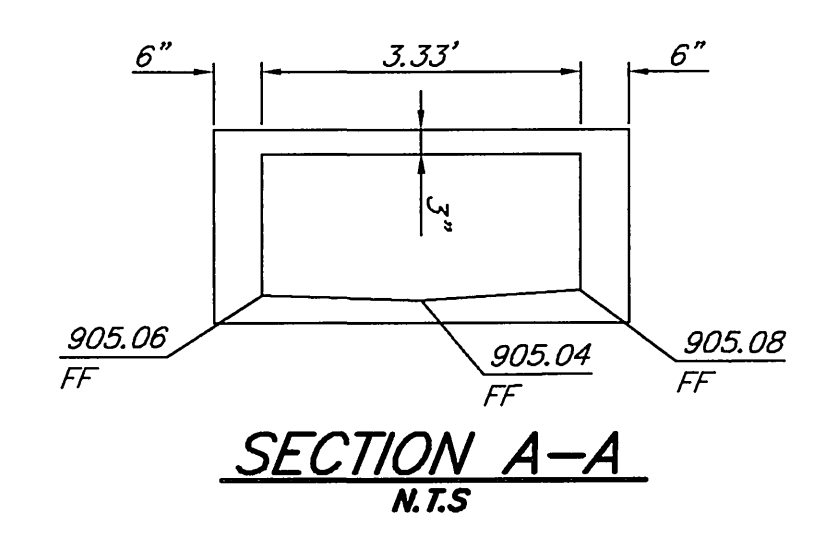
CURVE DATA				
Δ	R	Δ	L	T
1	35'	09°49'20"	6.06'	3.01'
2	35'	13°22'44"	8.17'	4.11'
3	39'	23°12'04"	15.79'	8.01'



**DETAIL 2
PARKWAY DRAIN**

REMOVE EXIST CONCRETE
 CB: TOP OF CATCH BASIN
 TC: TOP OF CURB
 FL: FLOWLINE
 FF: FINISH FLOOR

- (MOD) 151-1 CONSTRUCT MODIFIED PARKWAY DRAIN
- W WATER METER TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION
- 21 REMOVE EXIST. PARKWAY DRAIN
- 28 REMOVE EXIST STORM DRAIN ACCESS
- RCP REMOVE EXIST. RCP (SIZE AS NOTED)
- REL O RELOCATE BY OTHERS

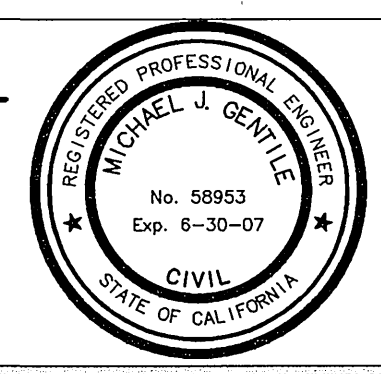


**DETAIL 3
COMER AVE CATCH BASIN**

- PIP PROTECT IN PLACE
- CB REMOVE EXIST. CB
- 27 REMOVE INTERFERING PORTION OF EXISTING SD
- 405 CONSTRUCT CATCH BASIN

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 Riverside, CA 92507
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 MICHAEL J. GENTILE
 R.C.E. No. 58953 expires 6/30/07
 DATE 3-5-2004

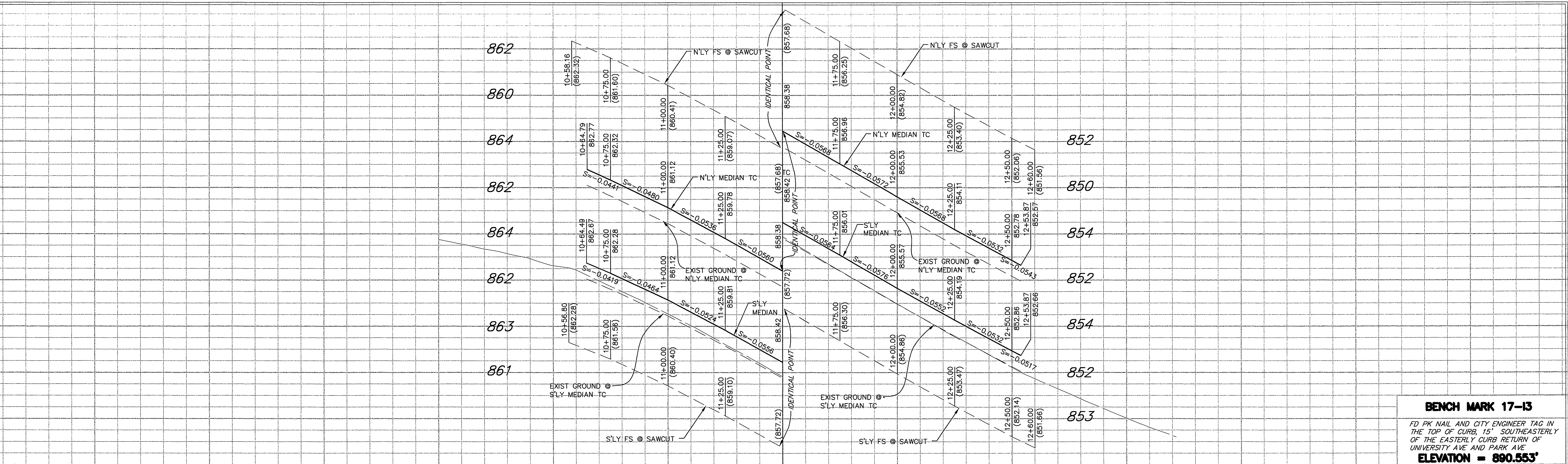


MARK	REVISIONS	APPR. DATE
MG	AC	

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: *Glenn Bird*
 DATE: 3/23/04

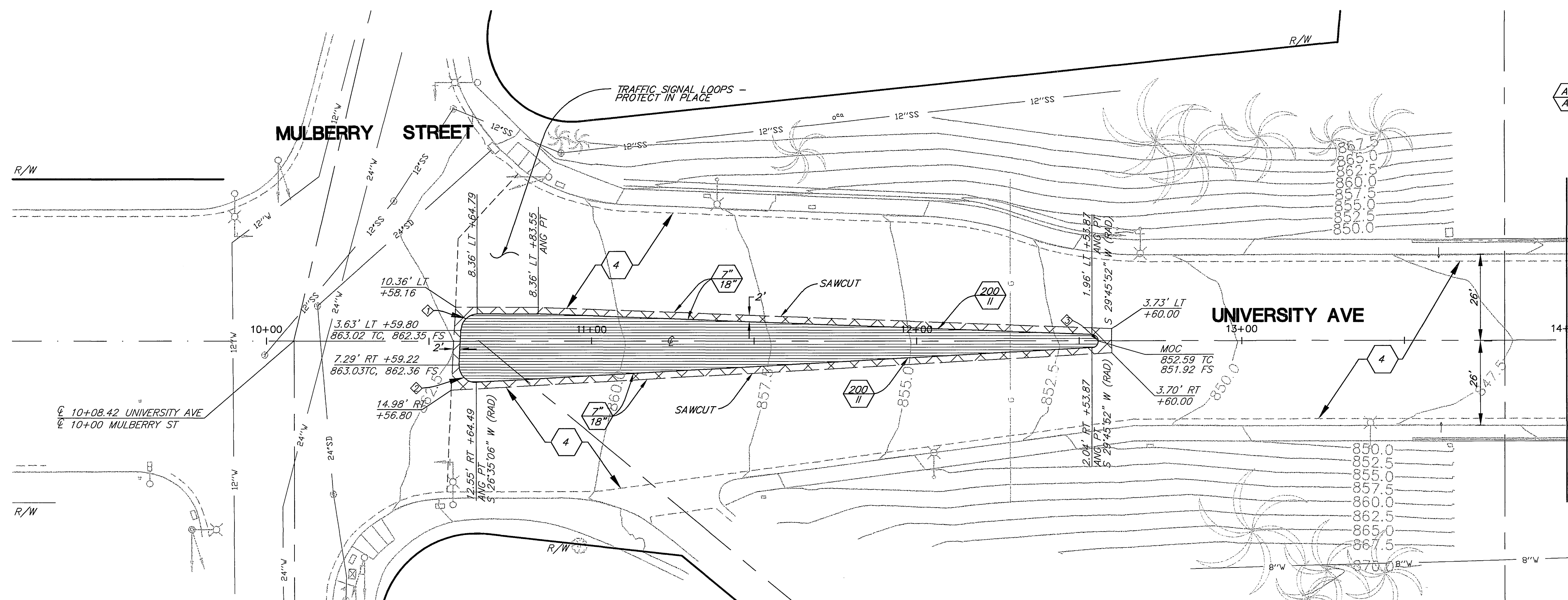
**UNIVERSITY AVENUE
 WIDENING
 DRAINAGE DETAILS**

ACCT. NO. 9577830214-440302XX
R-3747
 SHEET 4 OF 37
PC-6074-S/P



NOTE: PROTECT IN PLACE EXISTING TREES BETWEEN STA 10+00 AND 14+00 UNLESS NOTED OTHERWISE.

CURVE DATA				
Station	R	Δ	L	T
1	5.00'	86°56'33"	7.59'	4.74'
2	5.00'	96°14'42"	8.40'	5.58'
3	2.00'	180°00'00"	6.28'	-

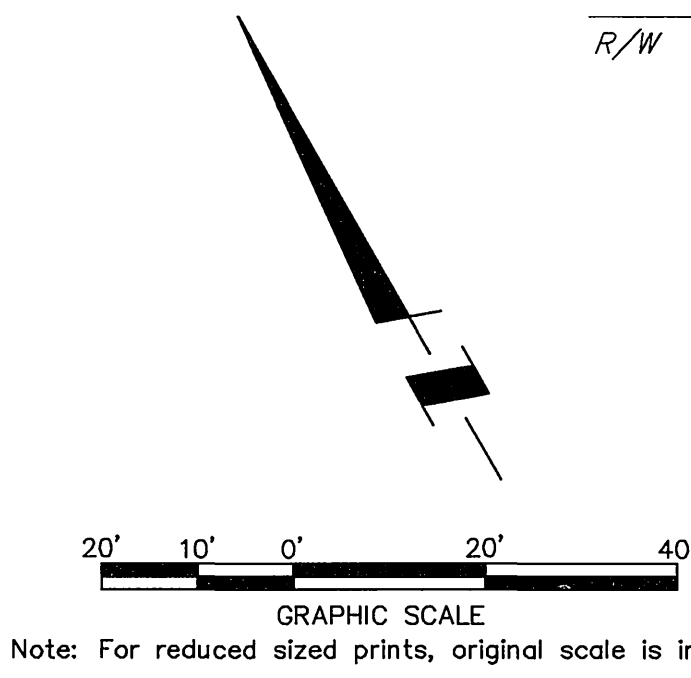


CONSTRUCTION NOTES

- 200 II - CONSTRUCT CURB AND GUTTER PER STD. TYPE II
- AC AB - CONSTRUCT STRUCTURAL SECTION AC OVER AB, THICKNESS PER PLAN
- 4 - SLURRY SEAL EXISTING PAVEMENT

LEGEND

- [Hatched Box] REMOVE EXISTING PAVEMENT
- [Cross-hatched Box] REMOVE AND RECONSTRUCT NEW PAVEMENT



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 DATE 3-5-2004



MARK	REVISIONS	APPR.	DATE
MG	AC		

**CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT**

APPROVED BY: *Tom Boyd*
 CITY ENGINEER
 DATE: 3/23/04

UNIVERSITY AVENUE WIDENING
BETWEEN STA 10+00 TO STA 14+00

ACCT. NO. 9577830214-440302XX
R-3747
 SHEET 5 OF 37
 PC-6074-S/P

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'

862
858
854
850
846

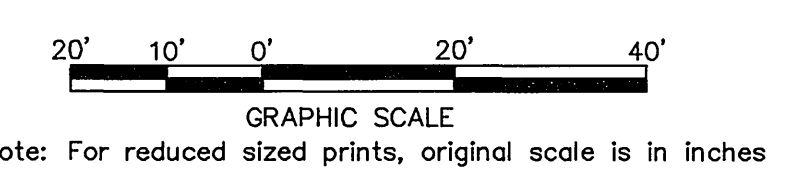
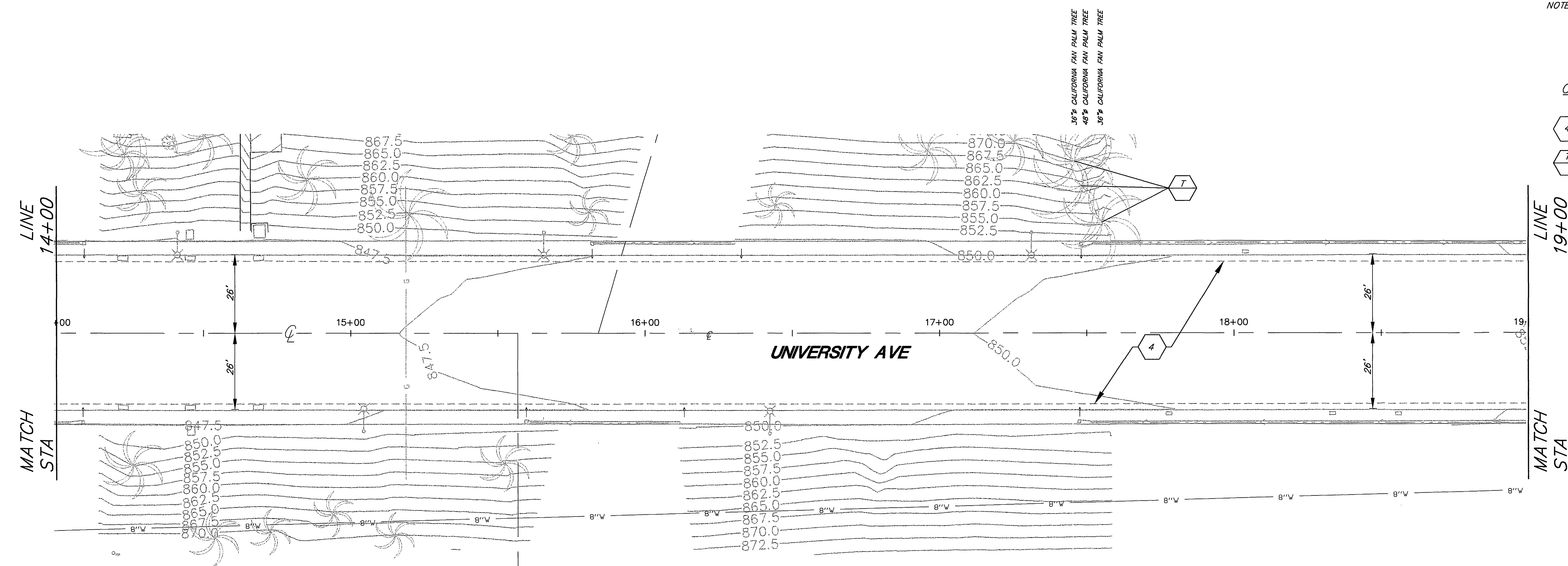
14 15 16 17 18 19

BENCH MARK 17-13
FD PK NAIL AND CITY ENGINEER TAG IN THE TOP OF CURB, 15' SOUTHEASTERLY OF THE EASTERLY CURB RETURN OF UNIVERSITY AVE AND PARK AVE
ELEVATION = 890.553'

NOTE: 1. PROTECT IN PLACE EXISTING TREES BETWEEN STA 14+00 AND 19+00 UNLESS NOTED OTHERWISE.

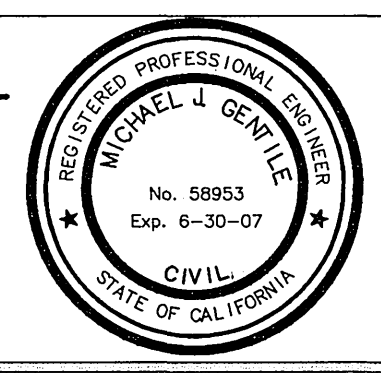
CONSTRUCTION NOTES

- 4 SLURRY SEAL EXISTING PAVEMENT
- T RELOCATE TREE. SEE LANDSCAPE PLANS SHEETS 18 TO 34.



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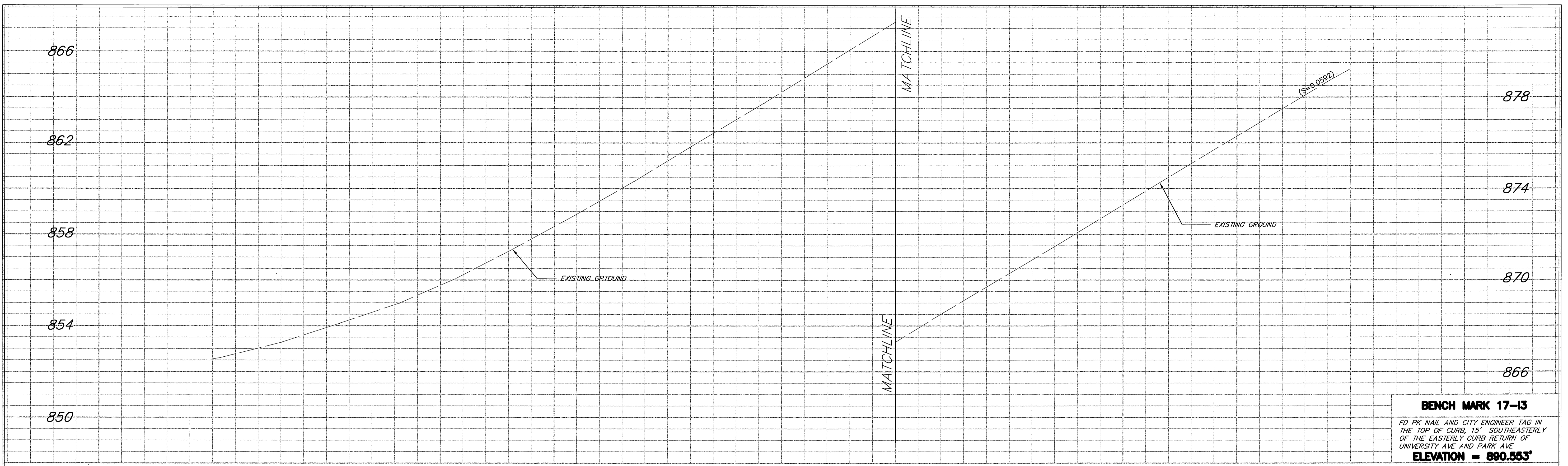
DESIGNED BY: MG	DRAWN BY: AC	CHECKED BY:
REVISIONS	APPR. DATE	

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		
APPROVED BY:	BY:	DATE:
PRINCIPAL ENGINEER	DA	3/18/04
TRAFFIC DIVISION	CE	3/18/04
PARKS DEPARTMENT	CE	3/18/04
INSPECTION	CE	3/18/04
SURVEYOR	CE	3/18/04
STREET SERVICES	CE	3/18/04
APPROVED BY:	BY:	DATE:
	MB	3/23/04

UNIVERSITY AVENUE WIDENING
FROM STA 14+00 TO STA 19+00
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'

ACCT. NO. 9577830214-440302XX
R-3747
SHEET 6 OF 37
PC-6074-S/P

Plotted: 07/15/04 10:48:13 AM: \\RIP00200\Unresp\mstades\ood\pl\VP-2.dwg Atul

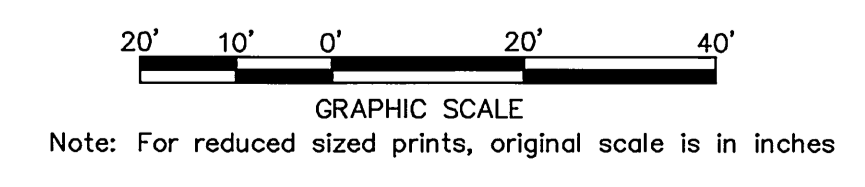
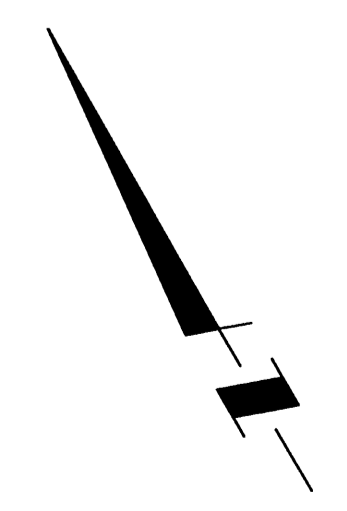
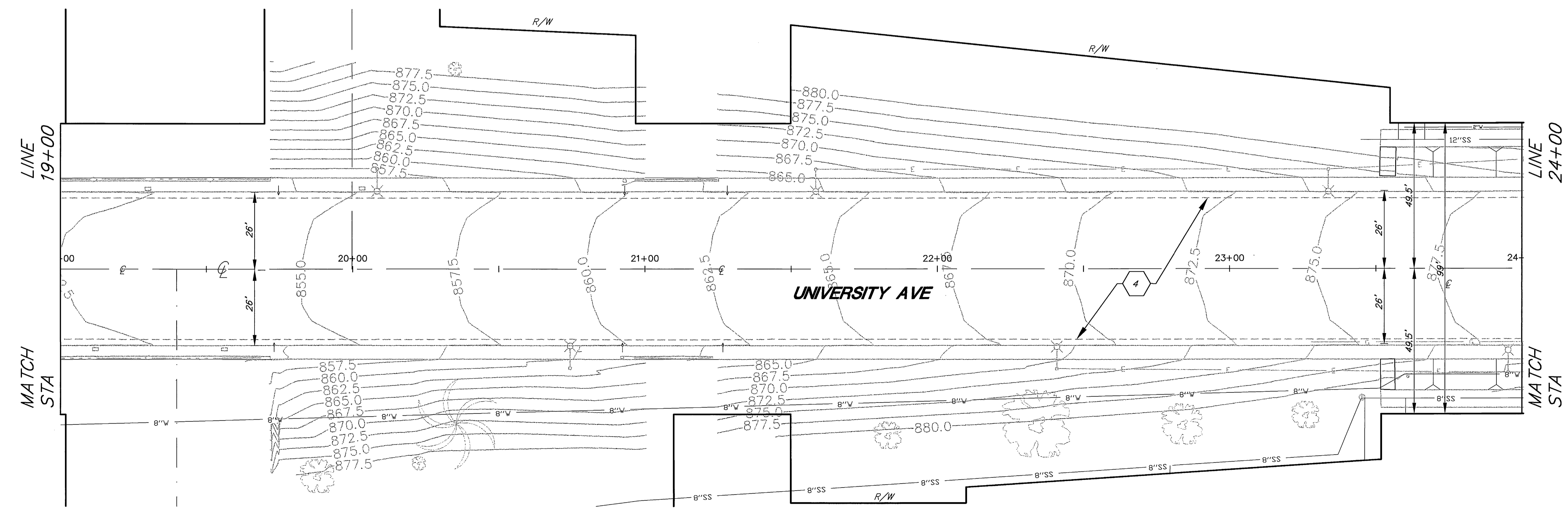


BENCH MARK 17-13
 FD PK NAIL AND CITY ENGINEER TAG IN THE TOP OF CURB, 15' SOUTHEASTERLY OF THE EASTERLY CURB RETURN OF UNIVERSITY AVE AND PARK AVE
ELEVATION = 890.553'

NOTE: PROTECT IN PLACE EXISTING TREES BETWEEN STA 19+00 AND 24+00 UNLESS NOTED OTHERWISE.

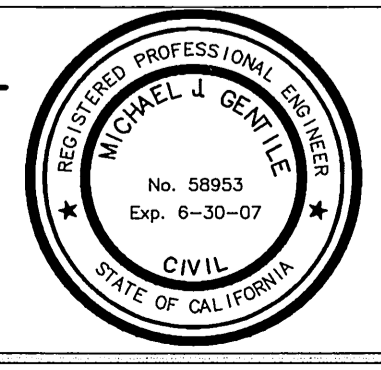
CONSTRUCTION NOTES

4 SLURRY SEAL EXISTING PAVEMENT



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 MICHAEL J. GENTILE
 R.C.E. No. 58953 expires 6/30/07
 DATE 3-5-2004



MARK	REVISIONS	APPR.	DATE

DESIGNED BY: **MG** DRAWN BY: **AC** CHECKED BY:

**CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT**

APPROVED BY:	BY:	DATE:
	<i>Tom Boyd</i>	3/23/04

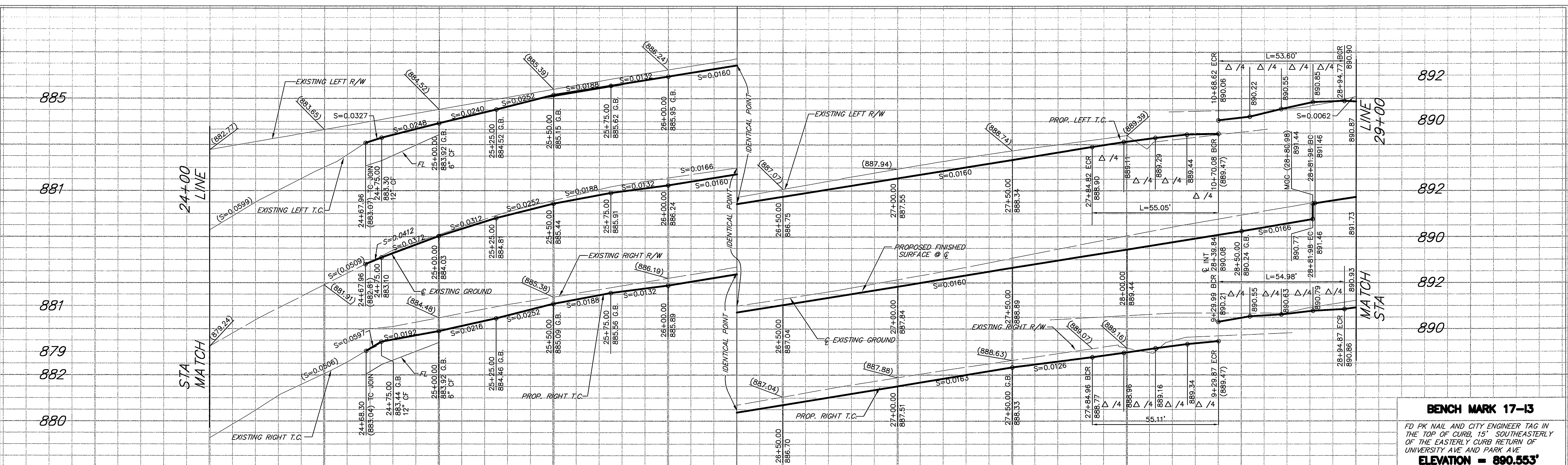
PRINCIPAL ENGINEER
 TRAFFIC DIVISION
 PARKS DEPARTMENT
 INSPECTION
 SURVEYOR
 STREET SERVICES

**UNIVERSITY AVENUE
 WIDENING**
**FROM STA 19+00
 TO STA 24+00**
 HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'

ACCT. NO. 9577830214-440302XX
R-3747
 SHEET 7 OF 37
PC-6074-S/P

INDEXED 3-29-04 Lff

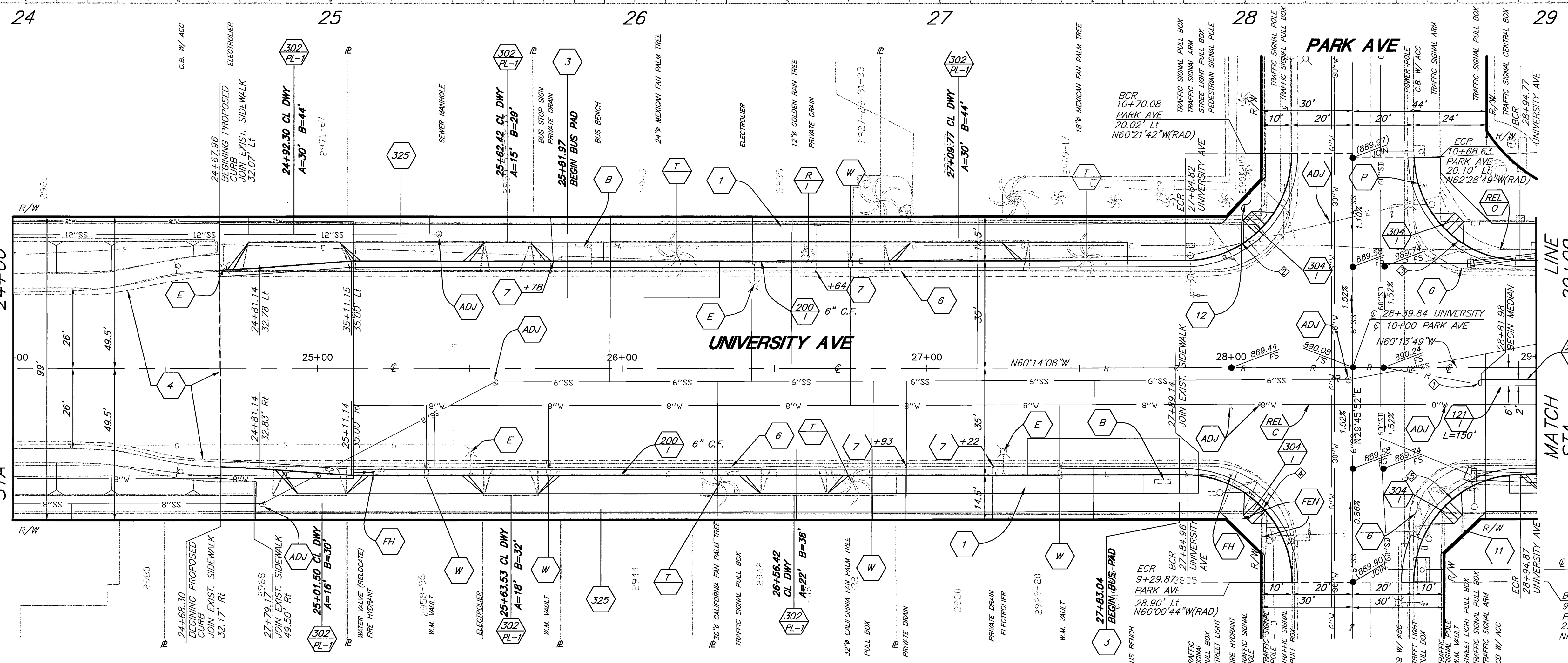
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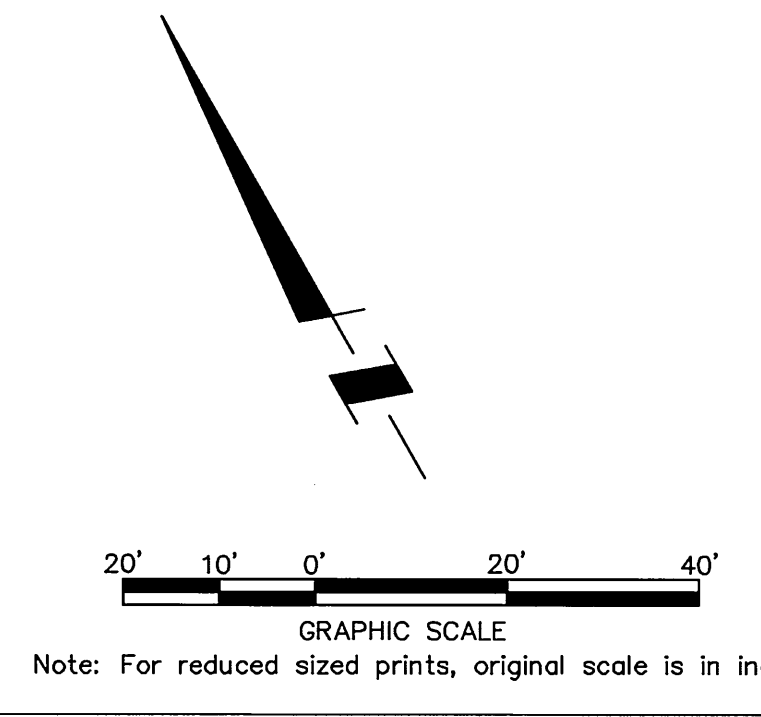
BENCH MARK 17-13
 FD PK NAIL AND CITY ENGINEER TAG IN THE TOP OF CURB, 15' SOUTHEASTERLY OF THE EASTERLY CURB RETURN OF UNIVERSITY AVE AND PARK AVE
ELEVATION = 890.553'

CURVE DATA				
Station	R	Δ	L	T
1	1'	180°00'00"	3.14'	-
2	35'	90°07'34"	55.05'	35.08'
3	35'	87°45'00"	53.60'	33.65'
4	35'	90°13'24"	55.11'	35.14'
5	35'	90°00'19"	54.98'	35.00'

- CONSTRUCTION NOTES**
- 11 - RELOCATE EXISTING LIGHTED COMMERCIAL SIGN AND ELECTRICAL SERVICE CONDUIT. COORDINATE RELOCATION WITH PROPERTY OWNER AND INSPECTOR.
 - 12 - REMOVE INTERFERING PLANTER CURB, LANDSCAPING & IRRIGATION. RECONSTRUCT PLANTER CURB AT BACK OF SIDEWALK AND RECONNECT IRRIGATION.
 - FEN - REMOVE AND RECONSTRUCT CHAIN LINK FENCE AT RIGHT OF WAY LINE. NEW FENCE HEIGHT TO MATCH EXISTING
 - REL O - RELOCATE BY OTHERS
 - REL C - RELOCATE BY CITY FORCES



- CONSTRUCTION NOTES**
- 1 - REMOVE EXIST. SIDEWALK
 - 325 - CONSTRUCT SIDEWALK
 - 302 PL-1 - CONSTRUCT DRIVEWAY APPROACH TYPE CURB-1
 - 200 I - CONSTRUCT CURB AND GUTTER PER STD. TYPE 1
 - 304 I - CONSTRUCT WHEELCHAIR RAMP PER STD. TYPE 1
 - W - WATER METER TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION
 - 200 II - CONSTRUCT CURB AND GUTTER PER STD. TYPE 2
 - 121 I - CONSTRUCT MEDIAN PER STD. TYPE 1 WITHOUT PARABOLIC FLARE
 - FH - REMOVE AND RELOCATE FIRE HYDRANT
 - 3 - CONSTRUCT CONCRETE BUS PAD PER DETAIL ON SHEET 2
 - 2 - REMOVE AND RELOCATE EXIST. CB PER DETAIL 1, SHEET 4
 - 200 II 7 - CONSTRUCT PRIVATE DRAIN THROUGH CURB PER DETAIL ON SHEET 3
 - ADJ - ADJUST SEWER, STORM DRAIN, ELECTRIC OR WATER MANHOLE OR GATE VALVE TO GRADE
 - E - REMOVE EXISTING STREET LIGHT. SEE LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS
 - P - POWER POLE TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, ELECTRIC DIVISION
 - 4 - SLURRY SEAL EXISTING PAVEMENT
 - 6 - REMOVE CURB & GUTTER
 - B - REMOVE AND RELOCATE BUS BENCH
 - T - RELOCATE TREE. SEE LANDSCAPE PLANS SHEETS 18 TO 34.
 - R/CL - REMOVE TREE, CLASS PER PLAN



PSOMAS
 1700 Iowa Avenue, Suite 160
 Riverside, CA 92507
 (909) 787-8421 (909) 682-3379 (FAX)

ENGINEER IN RESPONSIBLE CHARGE
Michael J. Gentile
 MICHAEL J. GENTILE
 R.C.E. No. 58953 expires 6/30/07
 DATE 3-5-2004



MARK	REVISIONS	APPR.	DATE
MG	AC		

**CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT**

APPROVED BY: *Tom Bird*
 DATE: 3/23/04

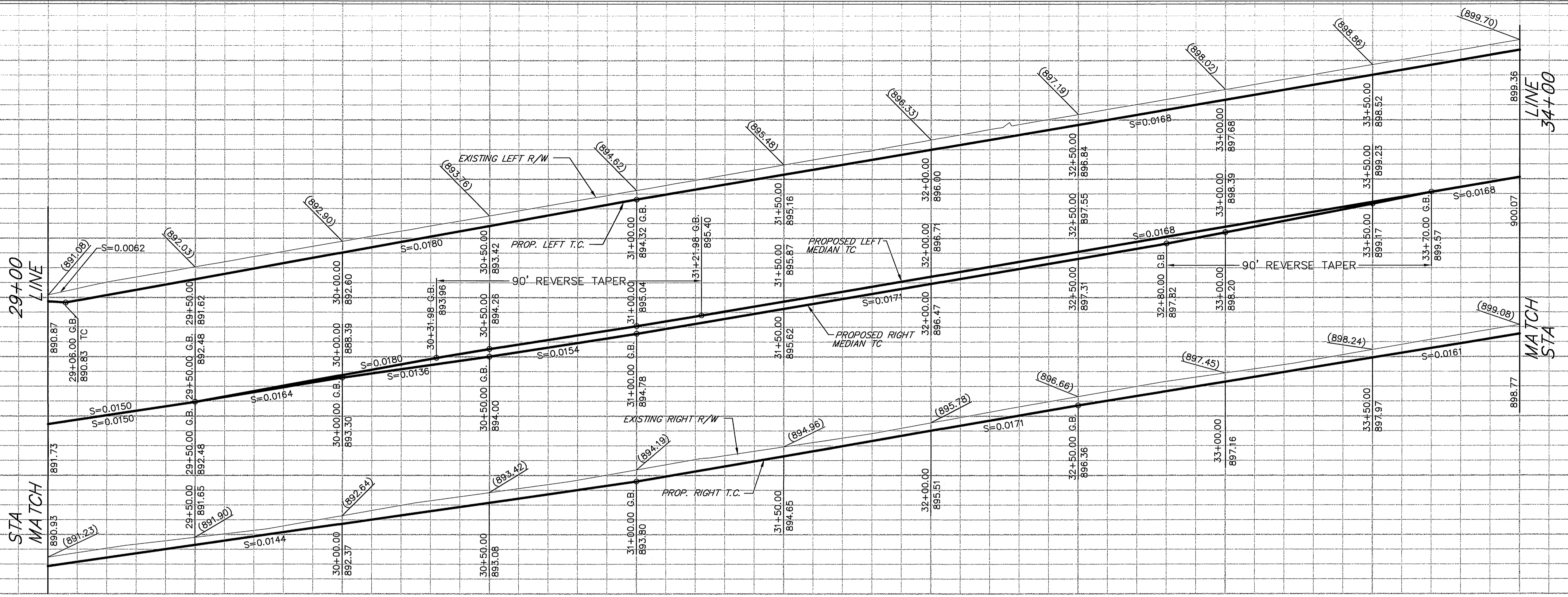
**UNIVERSITY AVENUE
 WIDENING
 FROM STA 24+00
 TO STA 29+00**

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'

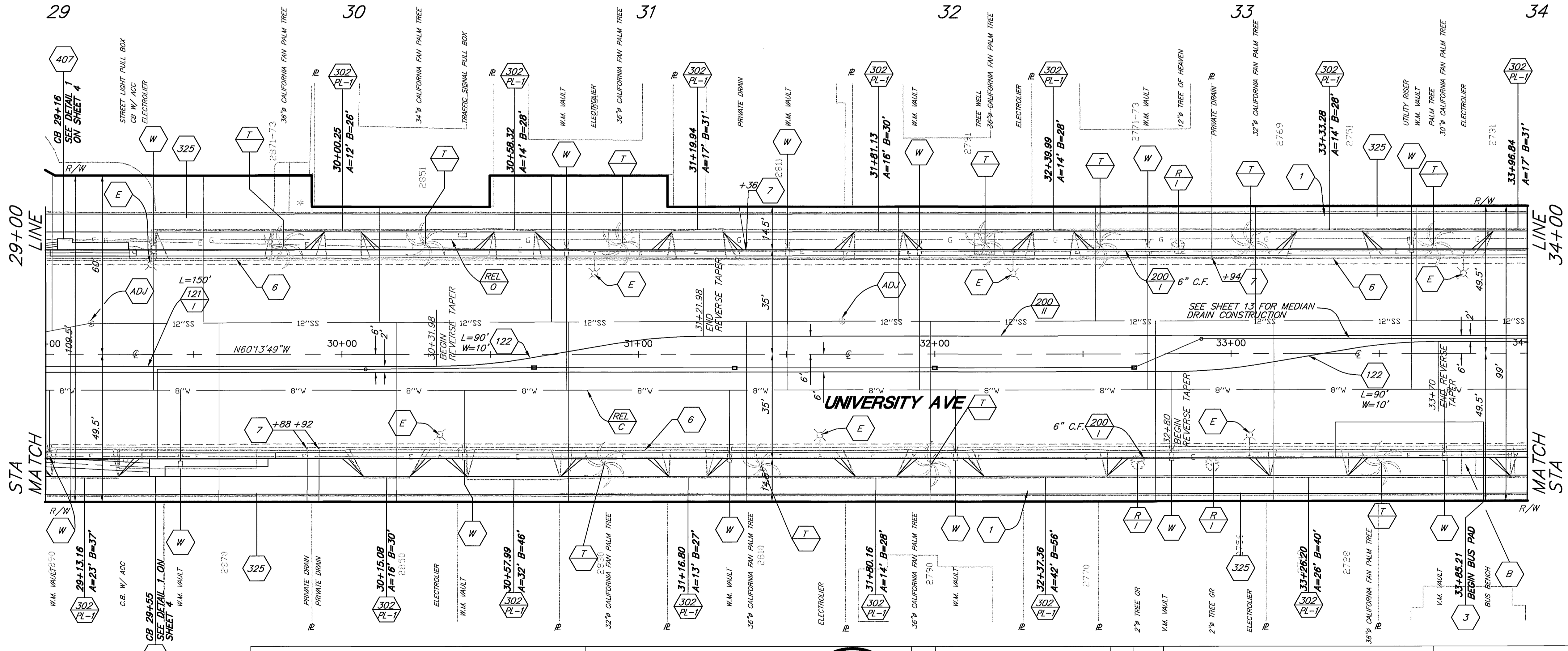
ACC. NO. 9577830214-4403024X
R-3747
 SHEET 8 OF 37
PC-6074-S/P

892
890
892
890
893
891

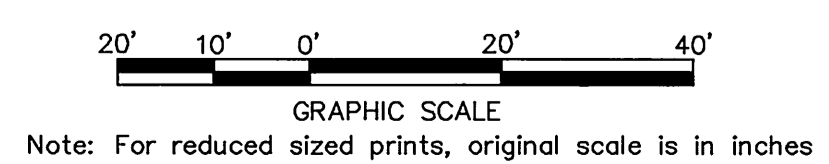
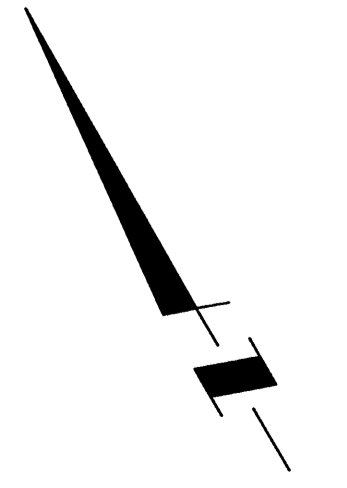
900
898
900
898
900
898



BENCH MARK 17-13
 FD PK NAIL AND CITY ENGINEER TAG IN THE TOP OF CURB, 15' SOUTHEASTERLY OF THE EASTERLY CURB RETURN OF UNIVERSITY AVE AND PARK AVE.
ELEVATION = 890.553'



- NOTE: TREE RELOCATION PER LANDSCAPE PLANS
- CONSTRUCTION NOTES**
- 1 REMOVE EXIST. SIDEWALK
 - ADJ ADJUST SEWER, STORM DRAIN, ELECTRIC OR WATER MANHOLE OR GATE VALVE TO GRADE
 - 122 CONSTRUCT REVERSE TAPER
 - 325 CONSTRUCT SIDEWALK
 - 302 PL-1 CONSTRUCT DRIVEWAY APPROACH TYPE CURB-1
 - 200 I CONSTRUCT CURB AND GUTTER PER STD. TYPE 1
 - 121 I CONSTRUCT MEDIAN PER STD. 121 TYPE 1 WITHOUT PARABOLIC FLARE
 - W WATER METER TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION
 - 3 CONSTRUCT CONCRETE BUS PAD PER DETAIL ON SHEET 2
 - 407 REMOVE AND RELOCATE SD
 - 200 II CONSTRUCT CURB AND GUTTER PER STD. TYPE 2
 - 7 CONSTRUCT PRIVATE DRAIN THROUGH CURB PER DETAIL ON SHEET 3
 - E REMOVE EXISTING STREET LIGHT. SEE LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS
 - 6 REMOVE CURB & GUTTER
 - B REMOVE AND RELOCATE BUS BENCH
 - T RELOCATE TREE. SEE LANDSCAPE PLANS SHEETS 18 TO 34.
 - R CL REMOVE TREE, CLASS PER PLAN
 - REL O RELOCATE BY OTHERS
 - REL C RELOCATE BY CITY FORCES



PSOMAS
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 Riverside, CA 92507
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ENGINEER IN RESPONSIBLE CHARGE
 MICHAEL J. GENTILE
 R.C.E. No. 58953 expires 6/30/07
 DATE 3-5-2004

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY:	BY:	DATE:	APPROVED BY:
PRINCIPAL ENGINEER	BY SIGNATURE	DATE	CITY ENGINEER
TRAFFIC DIVISION			
PARKS DEPARTMENT			
INSPECTION			
SUPERVISOR			
STREET SERVICES			

DESIGNED BY: MG DRAWN BY: AC CHECKED BY:

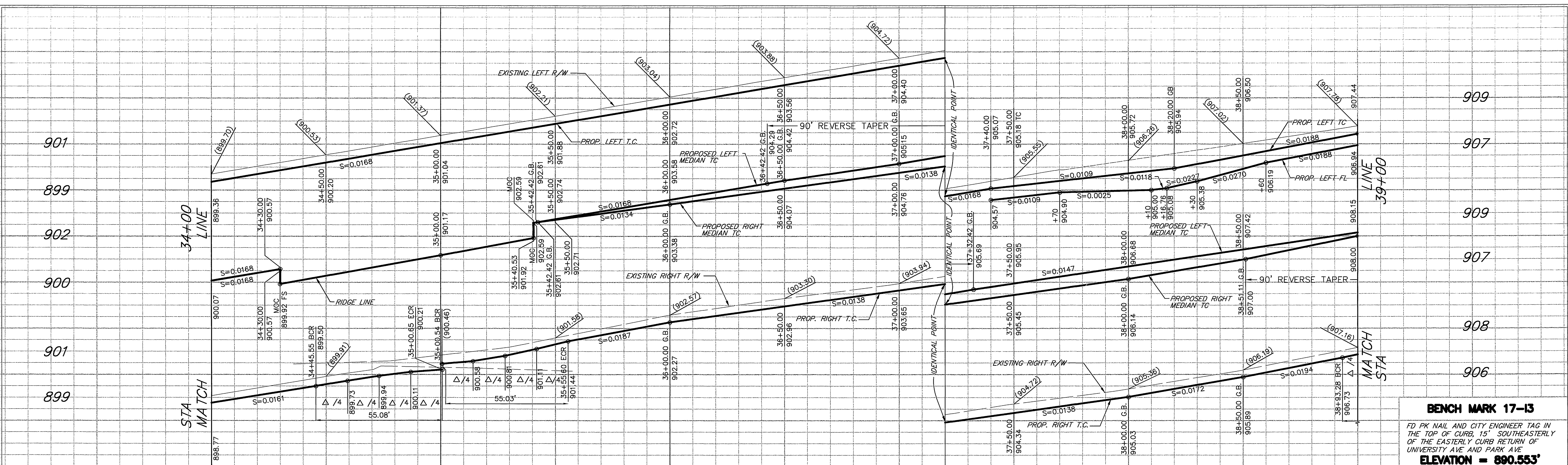
UNIVERSITY AVENUE WIDENING
 FROM STA 29+00 TO STA 34+00

ACC'T. NO. 9577830214-440302XK
R-3747
 SHEET 9 OF 37
 PC-6074-S/P

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'

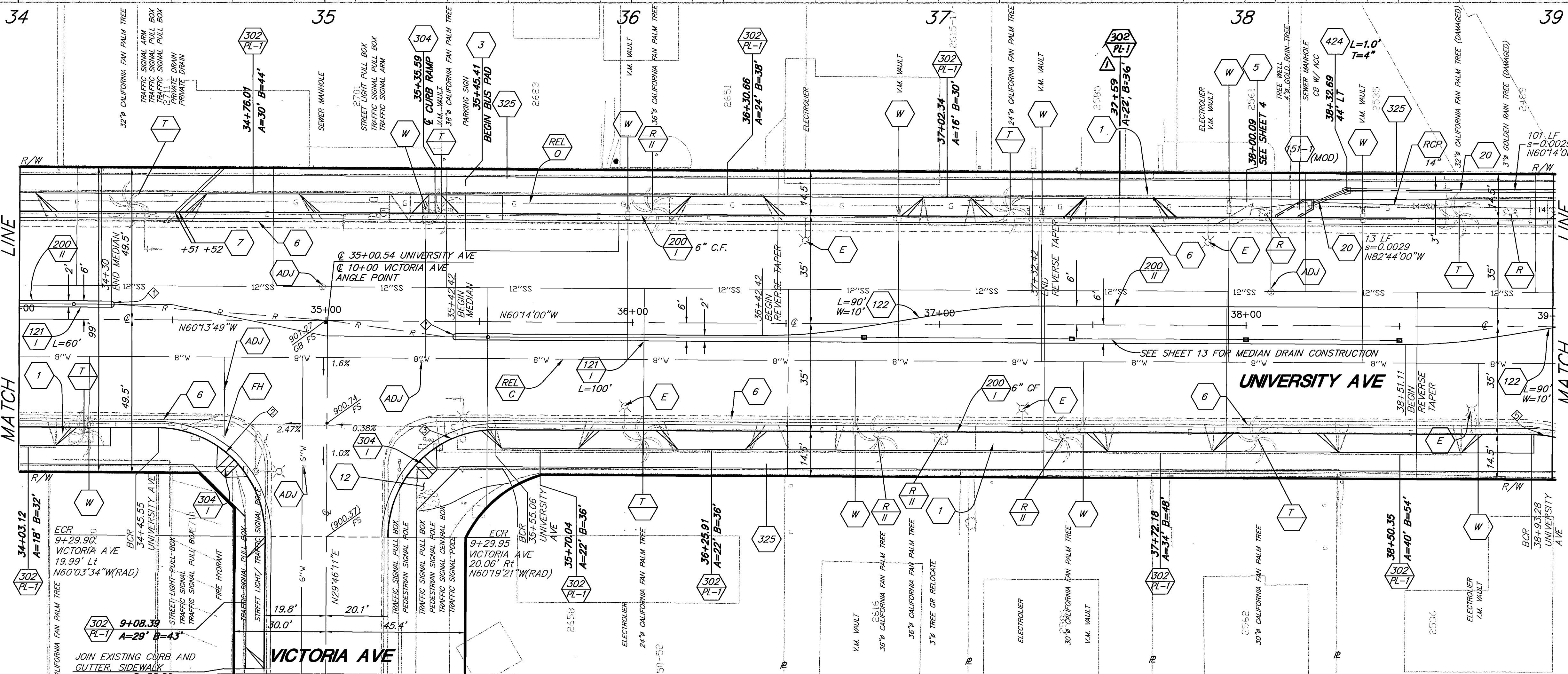
INDEXED 3-29-04 LHH

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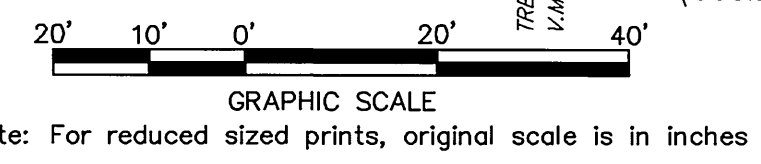


CURVE DATA				
Δ	R	L	T	
1	1'	180°00'00"	3.14'	-
2	35'	90°10'15"	55.08'	35.10'
3	35'	90°05'21"	55.03'	35.05'
4	1'	180°00'00"	3.14'	-
5	35'	61°09'01"	37.25'	20.68'

- CONSTRUCTION NOTES**
- T - RELOCATE TREE. SEE LANDSCAPE PLANS SHEETS 18 TO 34.
 - R - REMOVE TREE, CLASS PER PLAN
 - CL - REMOVE TREE, CLASS PER PLAN
 - (51)- - CONSTRUCT MODIFIED PARKWAY DRAIN
 - (MOD) - CONSTRUCT MODIFIED PARKWAY DRAIN
 - 424 - CONSTRUCT CONCRETE COLLAR
 - 20 - CONSTRUCT 12" RCP (2000-D) WITH TONGUE AND GROOVE MORTAR JOINTS
 - RCP - REMOVE EXIST. RCP (SIZE AS NOTED)
 - REL O - RELOCATE BY OTHERS
 - REL C - RELOCATE BY CITY FORCES

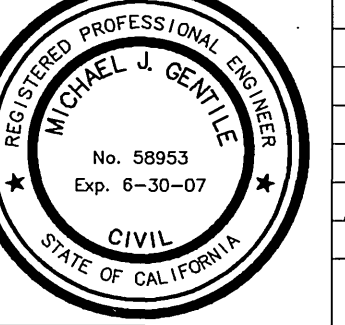


- CONSTRUCTION NOTES**
- 1 - REMOVE EXIST. SIDEWALK
 - ADJ - ADJUST SEWER, STORM DRAIN, ELECTRIC OR WATER MANHOLE OR GATE VALVE TO GRADE
 - 122 - CONSTRUCT REVERSE TAPER
 - 325 - CONSTRUCT SIDEWALK
 - 302 PL-1 - CONSTRUCT DRIVEWAY APPROACH TYPE CURB-1
 - 200 - CONSTRUCT CURB AND GUTTER PER STD. TYPE 1
 - 504 - CONSTRUCT WHEELCHAIR RAMP PER STD. TYPE 1
 - 12 - REMOVE INTERFERING PLANTER CURB, LANDSCAPING & IRRIGATION. RECONSTRUCT PLANTER CURB AT BACK OF SIDEWALK AND RECONNECT IRRIGATION.
 - W - WATER METER TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION
 - FH - FIRE HYDRANT TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION
 - 3 - CONSTRUCT CONCRETE BUS PAD PER DETAIL ON SHEET 2
 - 5 - REMOVE AND RECONSTRUCT PARKWAY DRAIN PER DETAIL ON SHEET 4
 - 121 - CONSTRUCT MEDIAN PER STD. TYPE 1 WITHOUT PARABOLIC FLARE
 - 200 II - CONSTRUCT CURB AND GUTTER PER STD. TYPE 2
 - 7 - CONSTRUCT PRIVATE DRAIN THROUGH CURB DETAIL ON SHEET 3
 - E - REMOVE EXISTING STREET LIGHT. SEE LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS
 - 6 - REMOVE CURB & GUTTER



PSOMAS
 1700 Iowa Avenue, Suite 160
 Riverside, CA 92507
 (909) 787-8421 (909) 682-3379 (FAX)

ENGINEER IN RESPONSIBLE CHARGE
Michael J. Gentile
 MICHAEL J. GENTILE
 R.C.E. No. 58953 expires 6/30/07
 DATE 3-5-2004



Added D/W Approach @ 37+59

MARK	REVISIONS	APPR.	DATE
MG	AC		

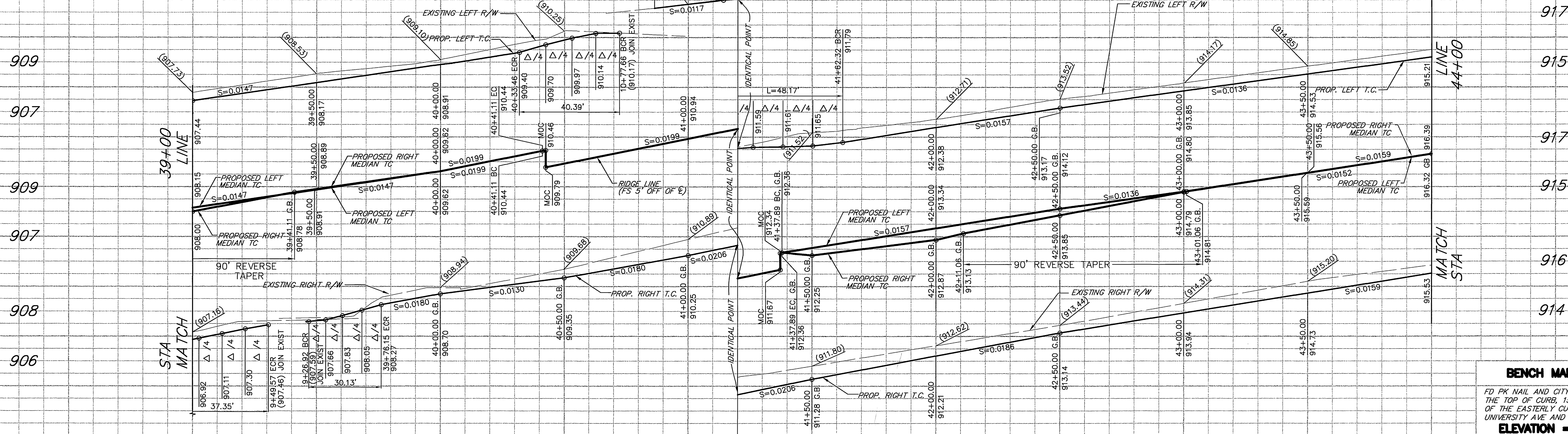
CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: *Tom Bond*
 DATE: 3/23/04

UNIVERSITY AVENUE WIDENING
 FROM STA 34+00 TO STA 39+00

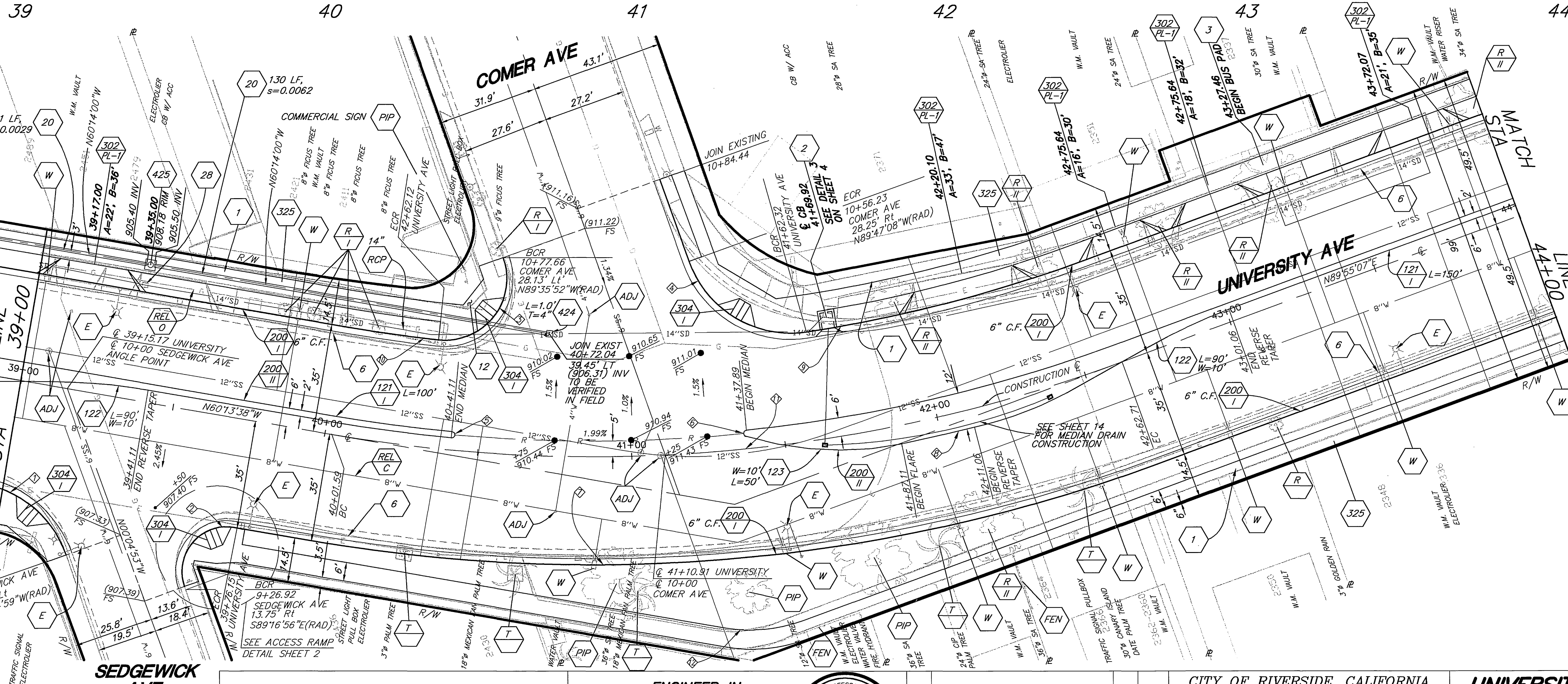
HORIZ. SCALE: 1" = 20'
 VERT. SCALE: 1" = 2'

ACCT. NO. 9577830214-440302XX
R-3747
 SHEET 10 OF 37
PC-6074-S/P



BENCH MARK 17-13
 FD PK NAIL AND CITY ENGINEER TAG IN THE TOP OF CURB, 15' SOUTHEASTERLY OF THE EASTERLY CURB RETURN OF UNIVERSITY AVE AND PARK AVE
ELEVATION = 890.553'

Curve No.	R	Δ	L	T
1	35'	61°09'01"	37.35	20.68
2	14.5'	119°03'17"	30.13	24.64
3	20'	115°43'04"	40.39	31.83
4	35'	78°51'35"	48.17	28.78
5	1'	180°00'00"	3.14	
6	1'	180°00'30"	3.14	5.19
7	5.35'	29°51'15"	27.78	142.82
8	506'	2°44'42"	24.24	12.12
9	465'	11°26'10"	92.81	46.56
10	465'	03°39'10"	29.64	14.83
11	500'	29°51'15"	260.53	133.29
12	50'	29°51'15"	26.05	13.33



- CONSTRUCTION NOTES**
- REMOVE EXIST. SIDEWALK
 - ADJ. ADJUST SEWER, STORM DRAIN, ELECTRIC OR WATER MANHOLE OR GATE VALVE TO GRADE
 - CONSTRUCT REVERSE TAPER
 - CONSTRUCT SIDEWALK
 - CONSTRUCT DRIVEWAY APPROACH TYPE CURB-1
 - CONSTRUCT CURB AND GUTTER PER STD. TYPE 1
 - CONSTRUCT WHEELCHAIR RAMP PER STD. TYPE 1
 - REMOVE AND RELOCATE SD
 - WATER METER TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION
 - REMOVE INTERFERING PLANTER CURB, LANDSCAPING & IRRIGATION. RECONSTRUCT PLANTER CURB AT BACK OF SIDEWALK AND RECONNECT IRRIGATION.
 - CONSTRUCT CURB AND GUTTER PER STD. TYPE 2
 - CONSTRUCT CONCRETE BUS PAD PER DETAIL ON SHEET 2
 - REMOVE CURB & GUTTER
 - REMOVE EXISTING STREET LIGHT. SEE LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS
 - CONSTRUCT PARABOLIC FLARE
 - RELOCATE TREE. SEE LANDSCAPE PLANS SHEETS 18 TO 34
 - REMOVE TREE, CLASS PER PLAN.
 - REL. C PROTECT IN PLACE
 - REL. PIP PROTECT IN PLACE
 - FEN REMOVE AND RECONSTRUCT CHAIN LINK FENCE AT RIGHT OF WAY LINE. NEW FENCE HEIGHT TO MATCH EXISTING.
 - 121 CONSTRUCT MEDIAN PER STD. TYPE 1 WITHOUT PARABOLIC FLARE
 - RCP REMOVE EXIST. RCP (SIZE AS NOTED)

- 20 CONSTRUCT 12" RCP (2000-D) WITH TONGUE AND GROOVE MORTAR JOINTS
- 28 REMOVE EXIST. STORM DRAIN ACCESS
- 424 CONSTRUCT CONCRETE COLLAR
- 425 CONSTRUCT CLEANOUT BOX
- REL O RELOCATE BY OTHERS
- REL C RELOCATE BY CITY FORCES

PSOMAS
 1700 Iowa Avenue, Suite 160
 Riverside, CA 92507
 (909) 787-8421 (909) 682-3379 (FAX)

ENGINEER IN RESPONSIBLE CHARGE
 MICHAEL J. GENTILE
 R.C.E. No. 58953 expires 6/30/07
 DATE 3-5-2004

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT

APPROVED BY: *Thom Boyd*
 DATE: 3/23/04

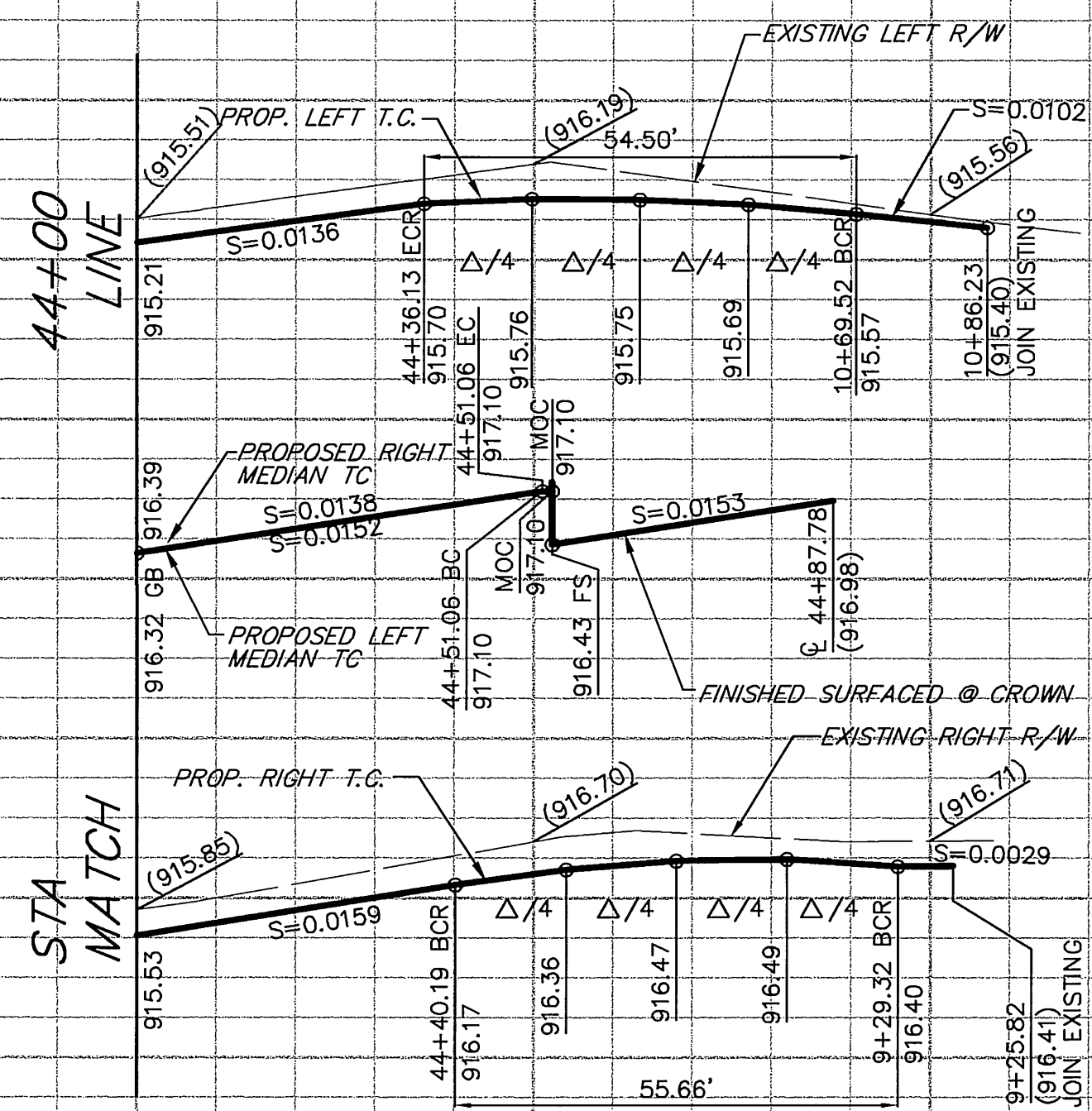
PRINCIPAL ENGINEER: *Thom Boyd*
 TRAFFIC ENGINEER: *Thom Boyd*
 PARKS DEPARTMENT: *Thom Boyd*
 INSPECTION: *Thom Boyd*
 SURVEYOR: *Thom Boyd*
 STREET SERVICES: *Thom Boyd*

UNIVERSITY AVENUE WIDENING
 FROM STA 39+00 TO STA 44+00

ACC. NO. 9577830214-440302XX
R-3747
 SHEET 11 OF 37
PC-6074-S/P

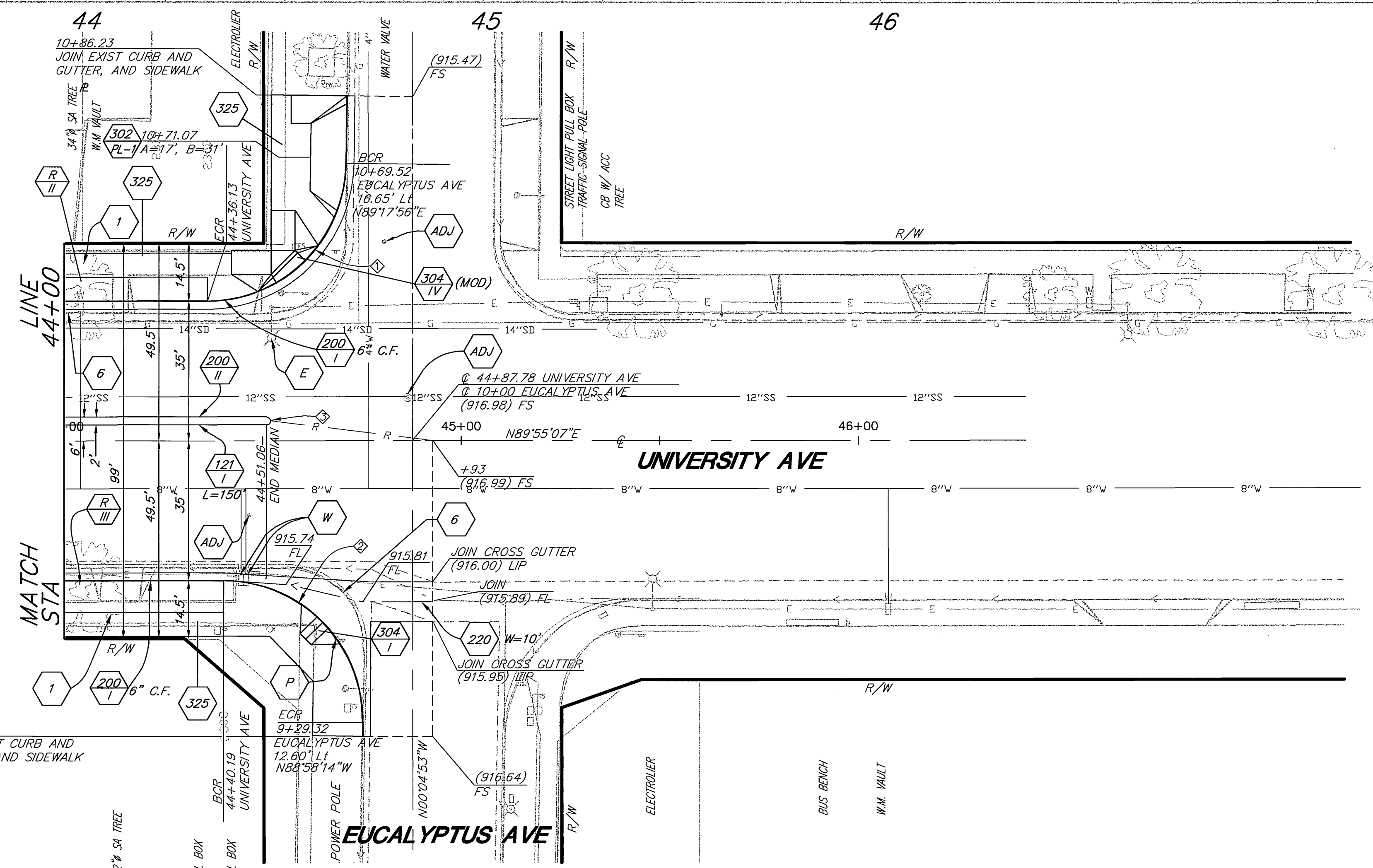
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'
 INDEXED 3-24-04

917
915
917
915
917
915



BENCH MARK 17-13

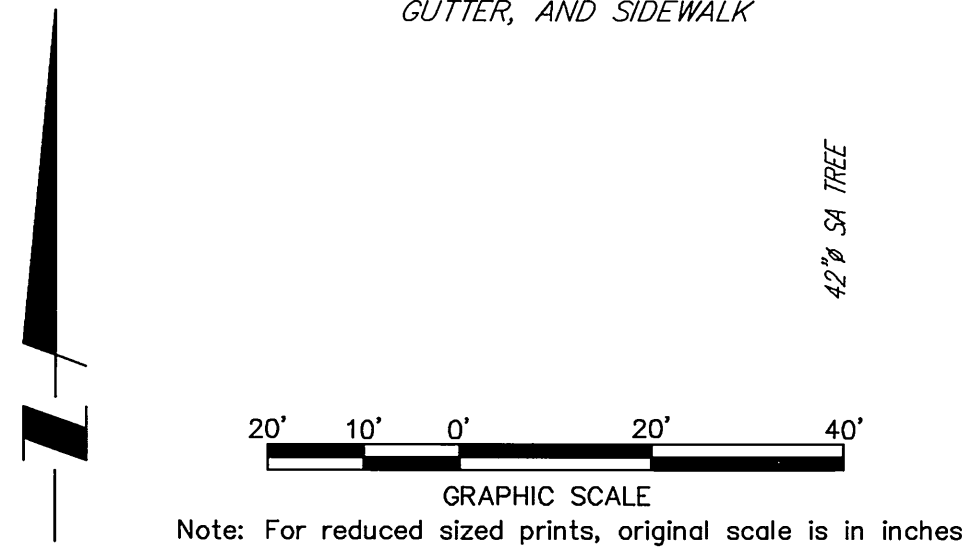
FD PK NAIL AND CITY ENGINEER TAG IN THE TOP OF CURB, 15' SOUTHEASTERLY OF THE EASTERLY CURB RETURN OF UNIVERSITY AVE AND PARK AVE
ELEVATION = 890.553'



CURVE DATA				
Station	R	Δ	L	T
1	35'	89°13'03"	54.50'	34.53'
2	35'	91°06'39"	55.66'	35.69'
3	1'	180°00'00"	3.15'	3.14'

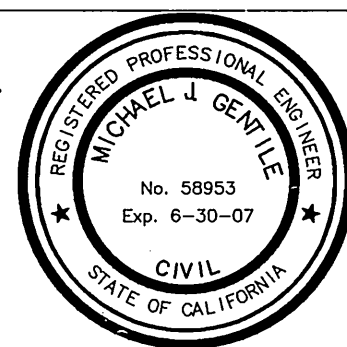
CONSTRUCTION NOTES

- 1 — REMOVE EXIST. SIDEWALK
- ADJ — ADJUST SEWER, STORM DRAIN, ELECTRIC OR WATER MANHOLE OR GATE VALVE TO GRADE
- 325 — CONSTRUCT SIDEWALK
- 302 — CONSTRUCT DRIVEWAY APPROACH TYPE CURB-1
- 200 — CONSTRUCT CURB AND GUTTER PER STD. TYPE 1
- 304 — CONSTRUCT WHEELCHAIR RAMP PER STD. TYPE IV, MODIFIED PER DETAIL ON SHEET 3
- W — WATER METER TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, WATER DIVISION
- 200 — CONSTRUCT CURB AND GUTTER PER STD. TYPE 2
- 220 — CONSTRUCT CROSS GUTTER
- 121 — CONSTRUCT MEDIAN PER STD. 121 TYPE 1 WITHOUT PARABOLIC FLARE
- E — REMOVE EXISTING STREET LIGHT. SEE LIGHTING PLANS FOR NEW STREET LIGHT LOCATIONS
- P — POWER POLE TO BE RELOCATED BY PUBLIC UTILITIES DEPARTMENT, ELECTRIC DIVISION
- 6 — REMOVE CURB & GUTTER
- R/CL — REMOVE TREE, CLASS PER PLAN
- 304 — CONSTRUCT WHEELCHAIR RAMP PER STD. TYPE 1



PSOMAS
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Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)

ENGINEER IN RESPONSIBLE CHARGE
Michael J. Gentile
MICHAEL J. GENTILE
R.C.E. No. 56953 expires 6/30/07
DATE: 3-5-2007



MARK	REVISIONS	APPR. DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

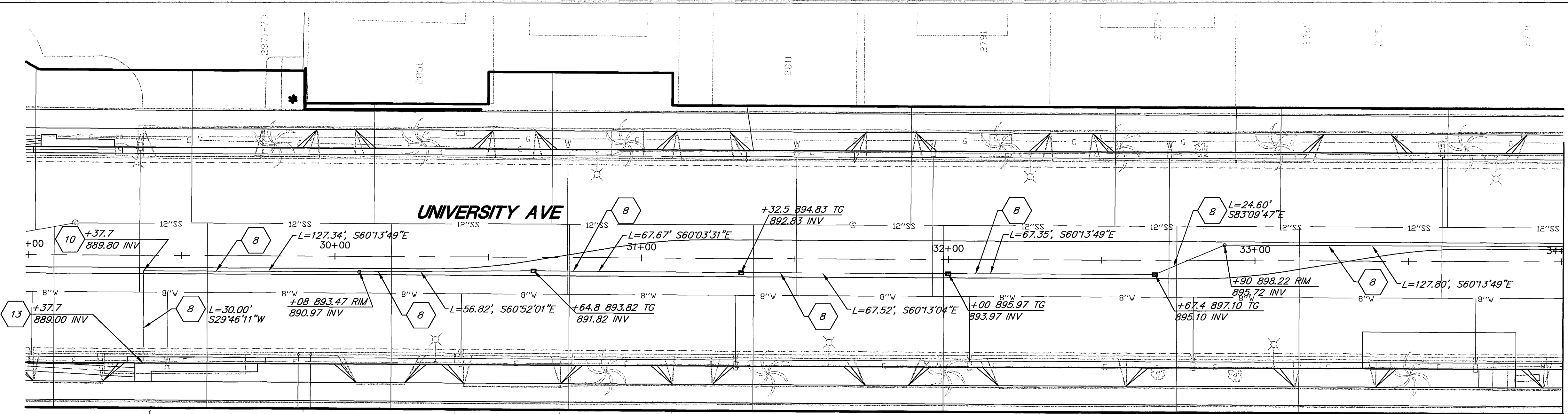
APPROVED BY: *Tom Boyd*
DATE: 3/13/07
CITY ENGINEER

DESIGNED BY: MG DRAWN BY: AC CHECKED BY: *[Signature]*

UNIVERSITY AVENUE WIDENING
FROM STA 44+00 TO STA 46+00

ACCT. NO. 9577830214-440302XX
R-3747
SHEET 12 OF 37
PC-6074-S/P

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'

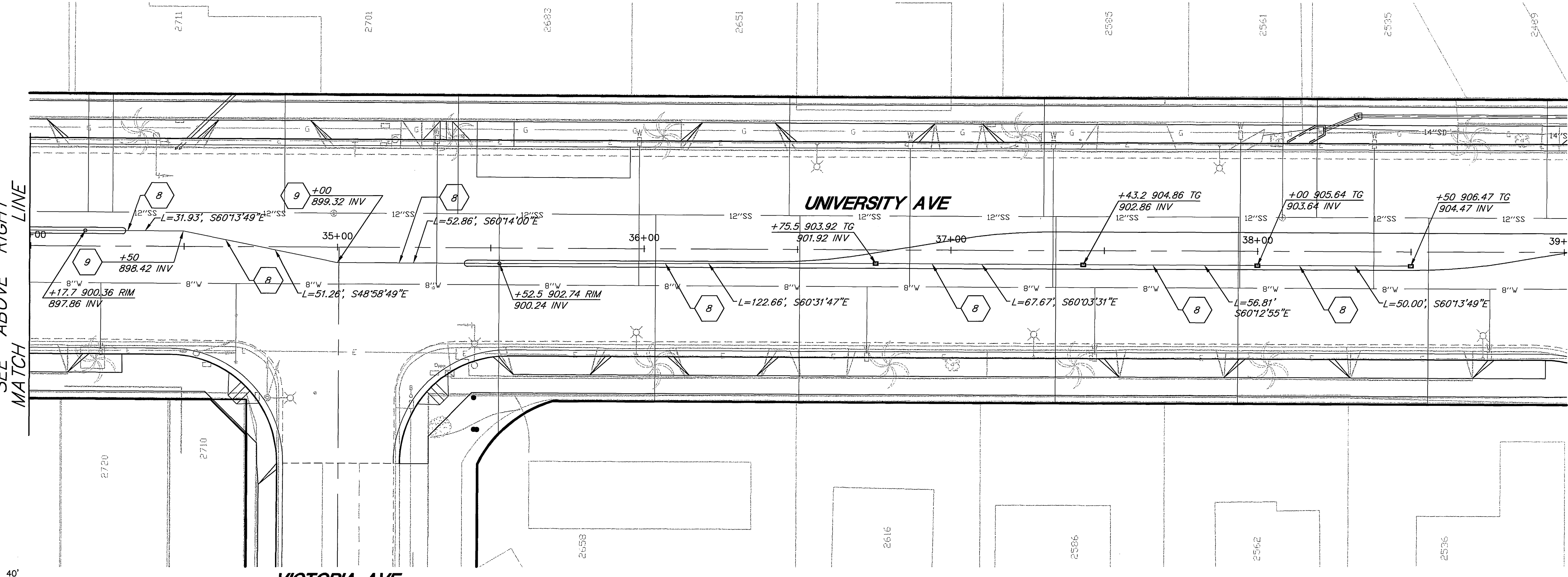
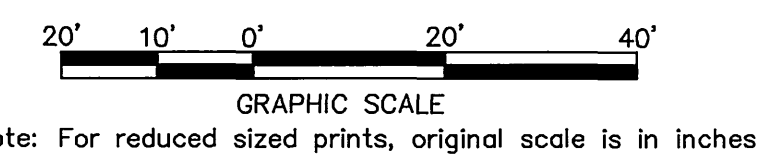


LINE LEFT
MATCH SEE BELOW

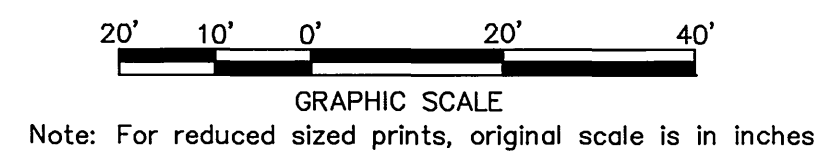
NOTE: GRATE INLETS AND CLEANOUTS CONSTRUCTED PER LANDSCAPE PLANS.

CONSTRUCTION NOTES

- 8 — CONSTRUCT 6" PVC (SDR 35), LENGTH PER PLAN
- 9 — INSTALL 6" 11.25' BEND
- 10 — INSTALL 6" 90' BEND
- 13 — CONSTRUCT PIPE OUTLET CONNECTION TO CATCH BASIN PER DETAIL ON SHEET 14



SEE ABOVE RIGHT LINE
MATCH



PSOMAS
 1700 Iowa Avenue, Suite 160
 Riverside, CA 92507
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ENGINEER IN RESPONSIBLE CHARGE
Michael J. Gentile
 MICHAEL J. GENTILE
 R.C.E. No. 58953 expires 6/30/07
 DATE 3-5-2004

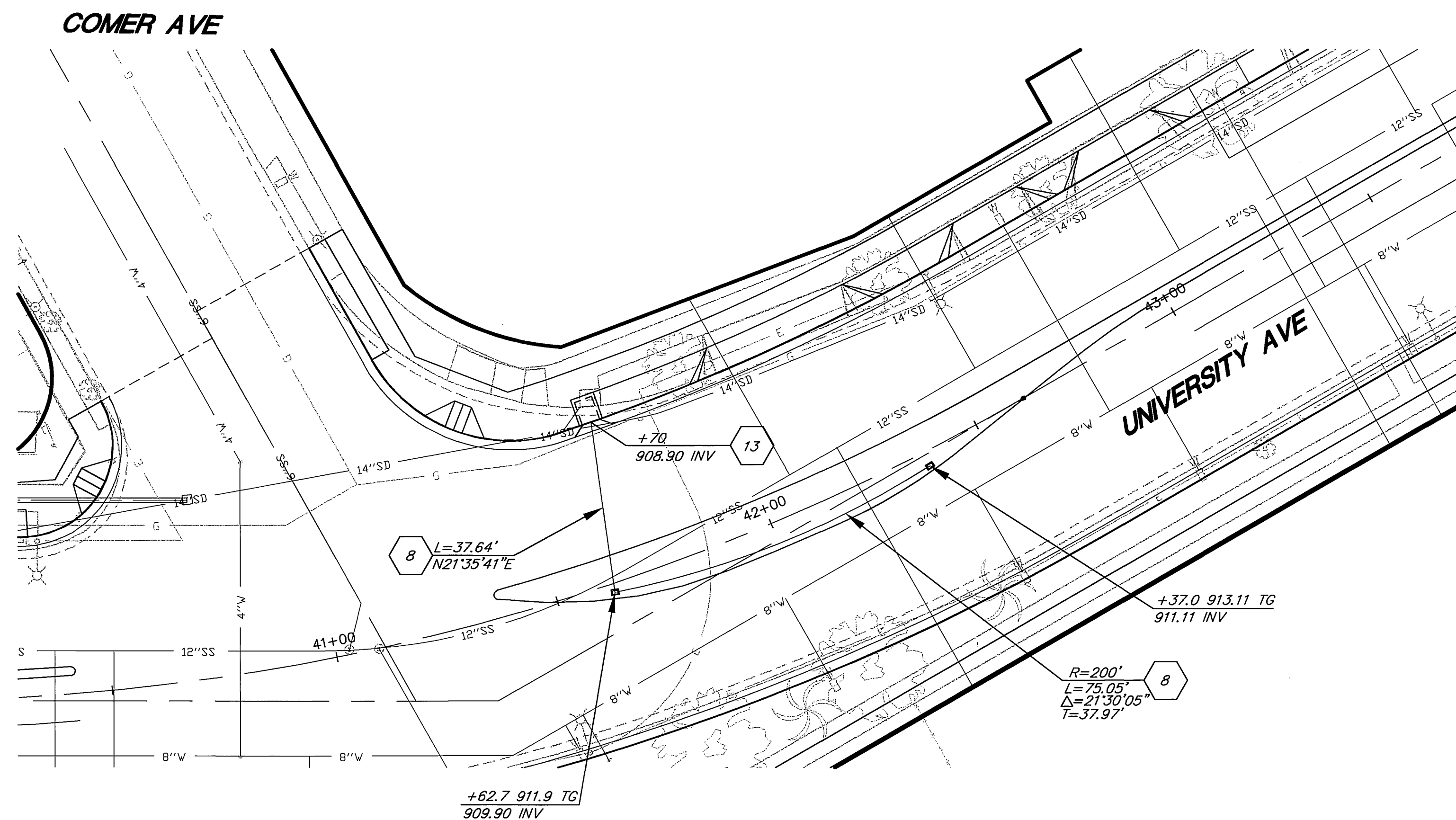
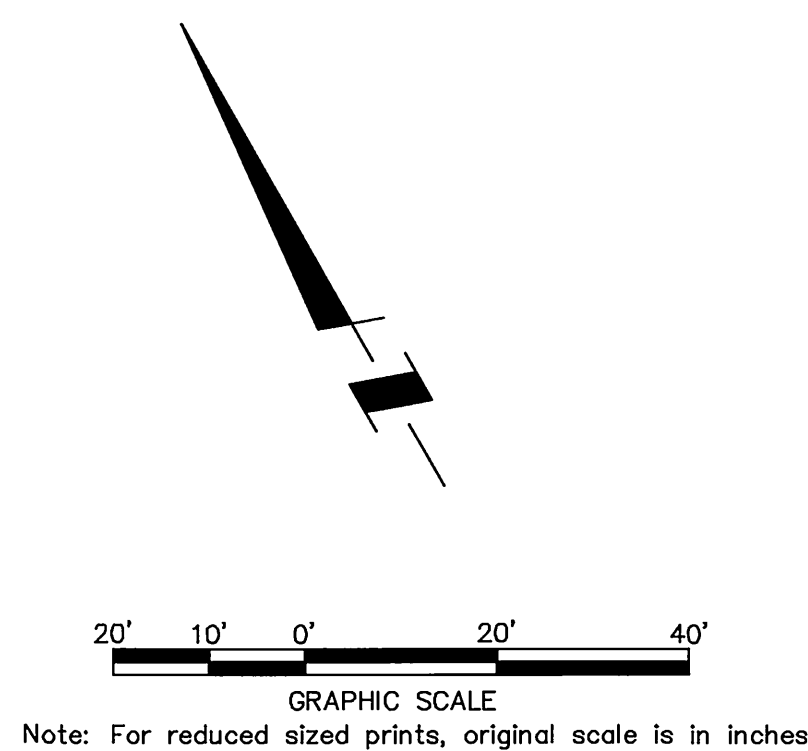


MARK	REVISIONS	APPR.	DATE
MG	AC		

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY:	BY:	DATE:	APPROVED BY:
PRINCIPAL ENGINEER	DA	3/16/04	Tom Boyd
TRAFFIC DIVISION	DA	3/16/04	CITY ENGINEER
PARKS DEPARTMENT	DA	3/16/04	
INSPECTION	DA	3/16/04	
SURVEYOR	DA	3/16/04	
STREET SERVICES	DA	3/16/04	

**UNIVERSITY AVENUE
WIDENING**
MEDIAN DRAIN PLAN
 HORIZ. SCALE: 1" = 20' VERT. SCALE: NONE

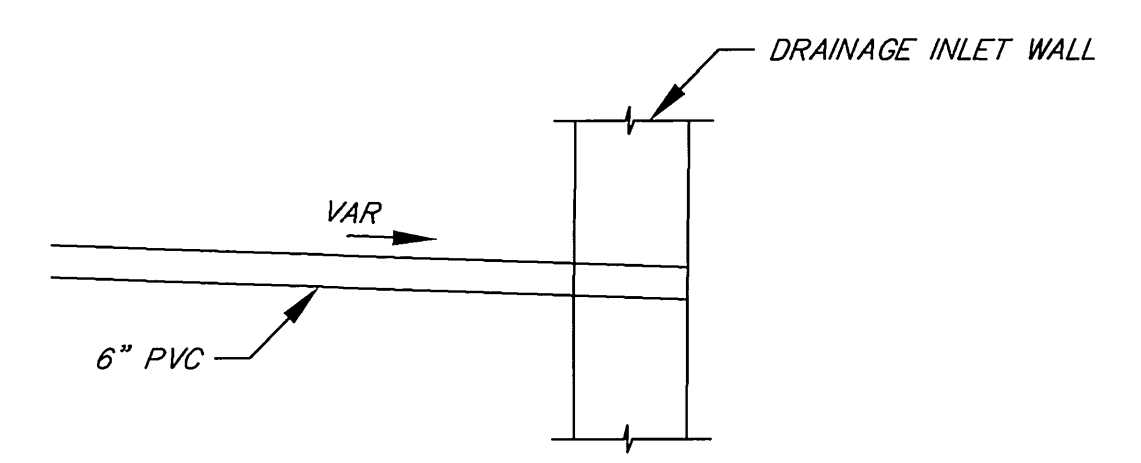
ACCT. NO. 9577830214-440302XX
R-3747
 SHEET 13 OF 37
PC-6074-S/P



NOTE: GRATE INLETS AND CLEANOUTS CONSTRUCTED PER LANDSCAPE PLANS.

CONSTRUCTION NOTES

- 8 CONSTRUCT 6" PVC (SDR 35), LENGTH PER PLAN
- 13 CONSTRUCT PIPE OUTLET CONNECTION TO CATCH BASIN PER DETAIL ON SHEET 14



ELEVATION
PIPE OUTLET CONNECTION TO CATCH BASIN
N.T.S

PSOMAS
1700 Iowa Avenue, Suite 160
Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)

ENGINEER IN RESPONSIBLE CHARGE
Michael J. Gentile
MICHAEL J. GENTILE
R.C.E. No. 58953 expires 6/30/07
DATE: 3.5.2004



MARK	REVISIONS	APPR.	DATE

DESIGNED BY: MG DRAWN BY: AC CHECKED BY: _____

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY:	BY:	DATE:	APPROVED BY:
PRINCIPAL ENGINEER	PH	3/19/04	
TRAFFIC DIVISION		3/19/04	
PLANS DEPARTMENT		3/19/04	
SURVEYOR		3/19/04	
STREET SERVICES		3/19/04	

DATE: 3/23/04

UNIVERSITY AVENUE WIDENING
MEDIAN DRAIN PLAN
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'

ACCT. NO. 9577830214-440302XX
R-3747
SHEET 14 OF 37
PC-6074-S/P

Printed: 03/19/04 12:47:07 M:\AR\002020\Draws\meddrain\pc6074-s.dwg Atsu

PARK AVE

STA 24+68.13

STA 27+50

STA 32+00

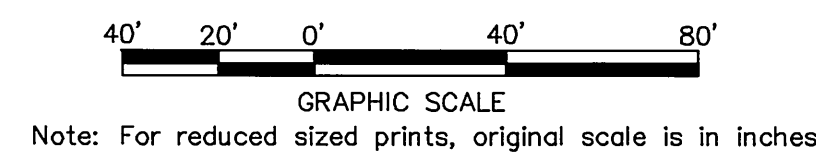
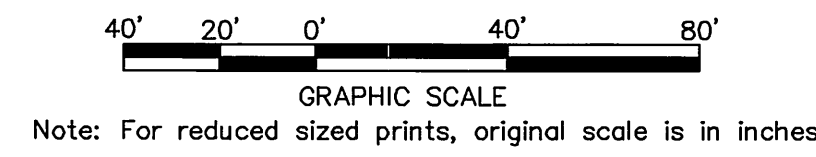
SEE BELOW LEFT

CONSTRUCTION NOTES

- CONSTRUCT STRUCTURAL SECTION AC OVER AB, THICKNESS PER PLAN
- CONSTRUCT 0.10' THICK MINIMUM AC OVERLAY
- COLD MILL EXISTING AC 0.10' BELOW PROPOSED FINISH SURFACE ON PLANS AND AS DESCRIBED IN SPECIAL PROVISIONS

LEGEND

- COLD MILL AND AC OVERLAY
- REMOVE EXISTING PAVEMENT
- REMOVE AND RECONSTRUCT NEW PAVEMENT
- CONSTRUCT PAVEMENT SECTION



SEE ABOVE RIGHT

STA 40+00

SEE BELOW LEFT

COMER AVE

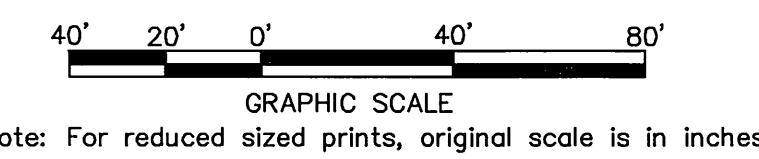
VICTORIA AVE

EUCALYPTUS AVE

SEDGEWICK AVE

SEE ABOVE RIGHT

STA 40+00



PSOMAS

1700 Iowa Avenue, Suite 160
Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)

ENGINEER IN RESPONSIBLE CHARGE

Michael J. Gentile
MICHAEL J. GENTILE
R.C.E. No. 58853 expires 6/30/07
DATE 3-5-2004



CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY:	BY:	DATE:	APPROVED BY:
PRINCIPAL ENGINEER	DA	3/19/04	<i>Tom Brad</i>
TRAFFIC DIVISION	DA	3/19/04	CITY ENGINEER
PARKS DEPARTMENT	DA	3/19/04	
INSPECTION	DA	3/19/04	
SURVEYOR	DA	3/19/04	
STREET SERVICES	DA	3/19/04	

DESIGNED BY: MG DRAWN BY: AC CHECKED BY:

**UNIVERSITY AVENUE
WIDENING**

PAVING PLAN

HORIZ. SCALE: 1" = 40' VERT. SCALE: NONE

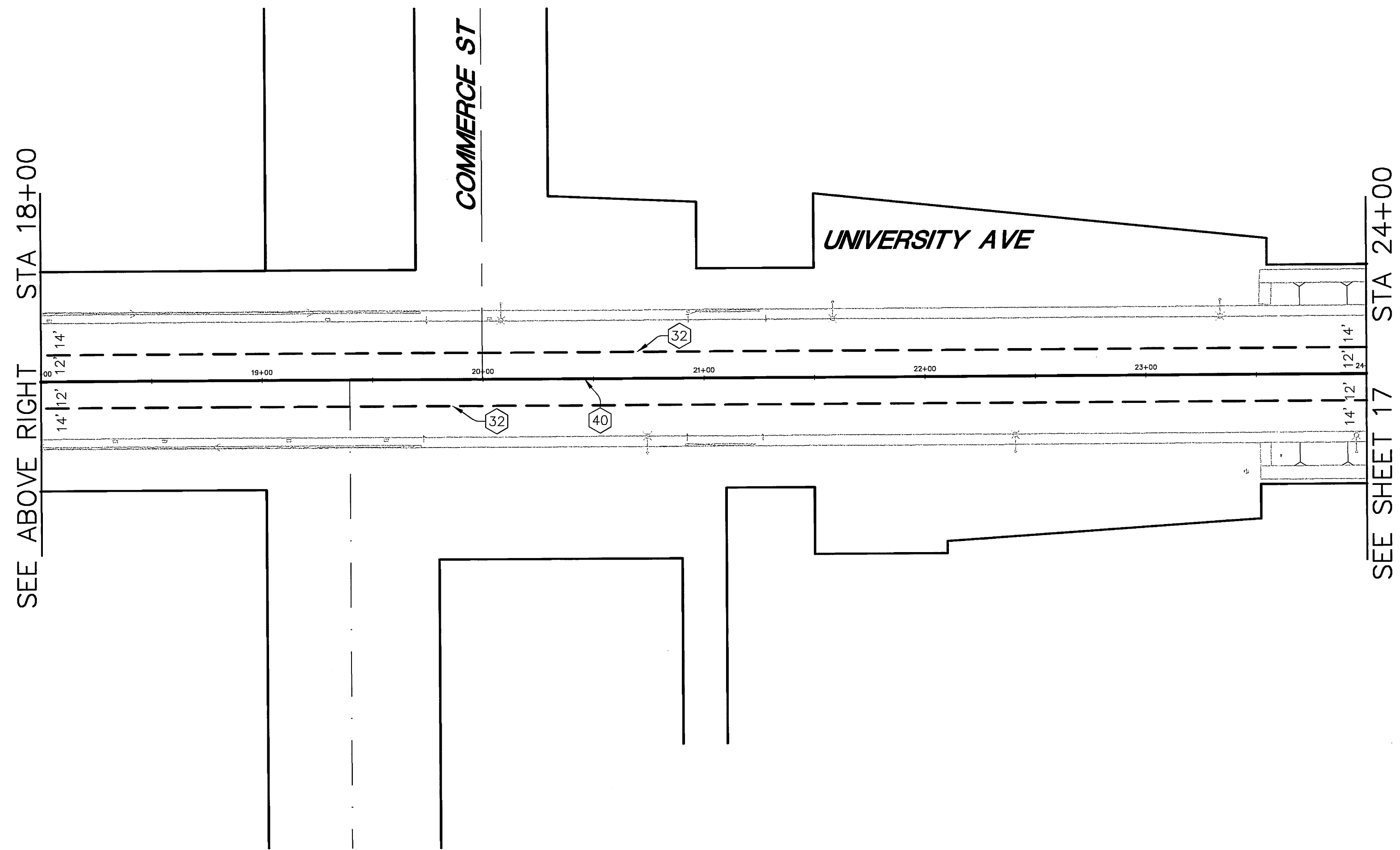
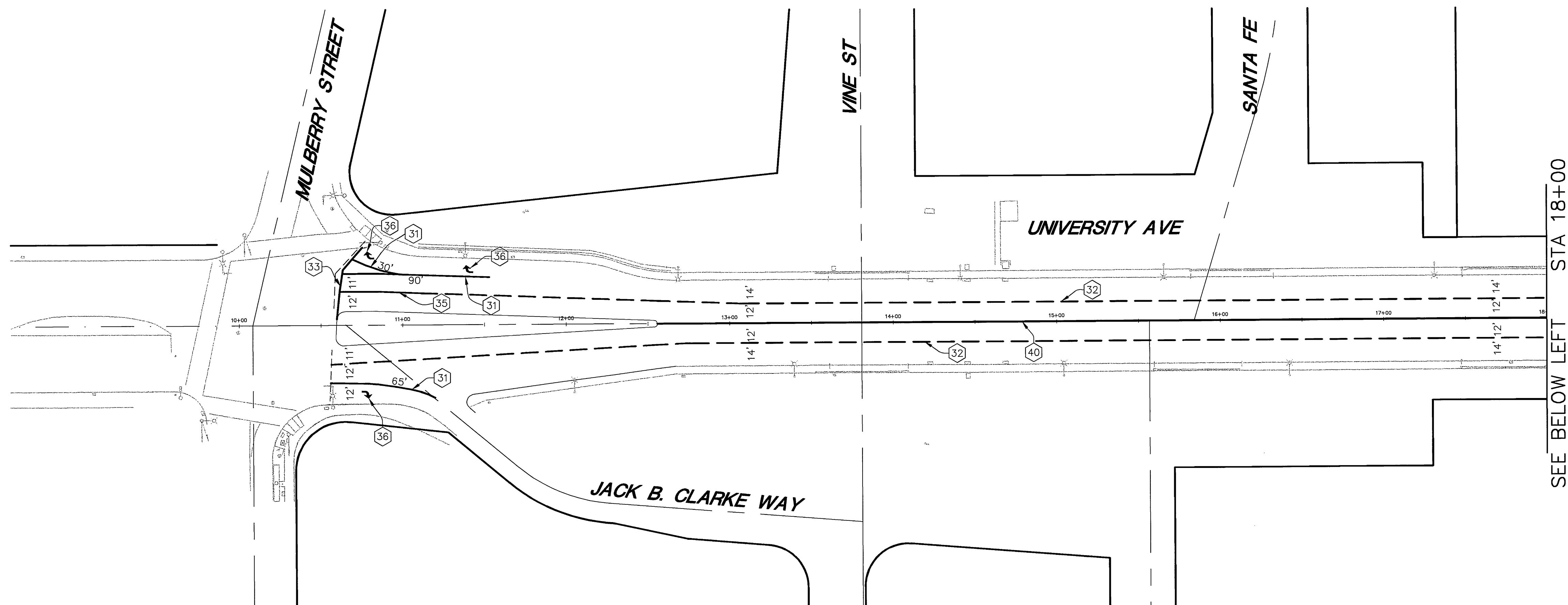
ACCT. NO. 9577830214-440302XX

R-3747

SHEET 15 OF 37

PC-8074-S/P

INDEXED 3-29-04 LH



CONSTRUCTION NOTES:

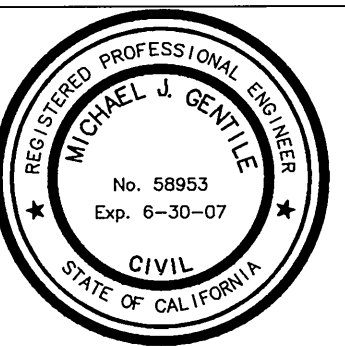
- 31 — PAINT 8" WHITE TRAFFIC LINE PER CALTRANS STD. A20D, DETAIL 38A.
- 32 — PAINT 4" WHITE LANE LINES PER CALTRANS STD. PLAN A20A, DETAIL 8.
- 33 — PAINT 12" WHITE CROSS WALK AND LIMIT LINE PER CALTRANS STD. A24E.
- 34 — PAINT "BIKE LANE" PAVEMENT MARKING (THERMOPLASTIC) PER CALTRANS STD. PLAN A24D.
- 35 — 4" SOLID WHITE LANE LINES (50') TYP.
- 36 — PAINT TYPE IV (R) ARROW (THERMOPLASTIC) PER CALTRANS STD. PLAN A24A.
- 37 — PAINT BIKE LANE SYMBOL (THERMOPLASTIC) PER CALTRANS STD. PLAN A24C.
- 38 — PAINT 6" WHITE LANE LINE PER CALTRANS STD. PLAN A20D, DETAIL 39.
- 39 — PAINT TYPE IV(L) ARROW (THERMOPLASTIC) PER CALTRANS STD. PLAN A24A.
- 40 — PAINT 4" DOUBLE YELLOW CENTERLINE PER CALTRANS STD. A20A, DETAIL 21.
- 41 — RELOCATE SIGN BEHIND PROPOSED CURB PER CITY OF RIVERSIDE STANDARDS OR AS DIRECTED BY THE ENGINEER.
- 42 — 6" DASH 4' x 8' (98') TYP.

GENERAL NOTES:

1. ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
2. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ALKYD BASE TYPE).
3. ALL SIGNS AND ROADSIDE MARKERS SHALL BE OF HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING, EXCEPT STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE IIIa) REFLECTIVE SHEETING.
4. SIGNS SHALL BE MOUNTED ON STEEL POST.
5. ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON THE PLAN, SHALL BE REMOVED BY CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING, OR AS DIRECTED BY CITY REPRESENTATIVE.
6. ALL CONFLICTING SIGNS SHALL BE EITHER REMOVED, RELOCATED OR COVERED BY CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLAN OR AS DIRECTED BY CITY REPRESENTATIVE.
7. ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLAN, IF REMOVED/OBLITERATED, SHALL BE REPLACED/ RESTORED OR SAME KIND, AND IN CONFORMANCE WITH THE CURRENT EDITION OF THE TRAFFIC MANUAL PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
8. THE CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE TO SCHEDULE WITH TRAFFIC DIVISION PERSONNEL FOR A FINAL REVIEW (WALK THROUGH) AND APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.
9. ALL CONSTRUCTION SIGNS SHALL BE BLACK ON ORANGE BACKGROUND WITH HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING.
10. ALL CONSTRUCTION SIGNING SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL OF TRAFFIC CONTROLS OF CONSTRUCTION AND MAINTENANCE WORK ZONES, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

PSOMAS
 1700 Iowa Avenue, Suite 160
 Riverside, CA 92507
 (909) 787-8421 (909) 682-3379 (FAX)

ENGINEER IN RESPONSIBLE CHARGE
Michael J. Gentile
 MICHAEL J. GENTILE
 R.C.E. No. 58953 expires 6/30/07
 DATE 3-5-2004



MARK	REVISIONS	APPR.	DATE
MG	AC		

**CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT**

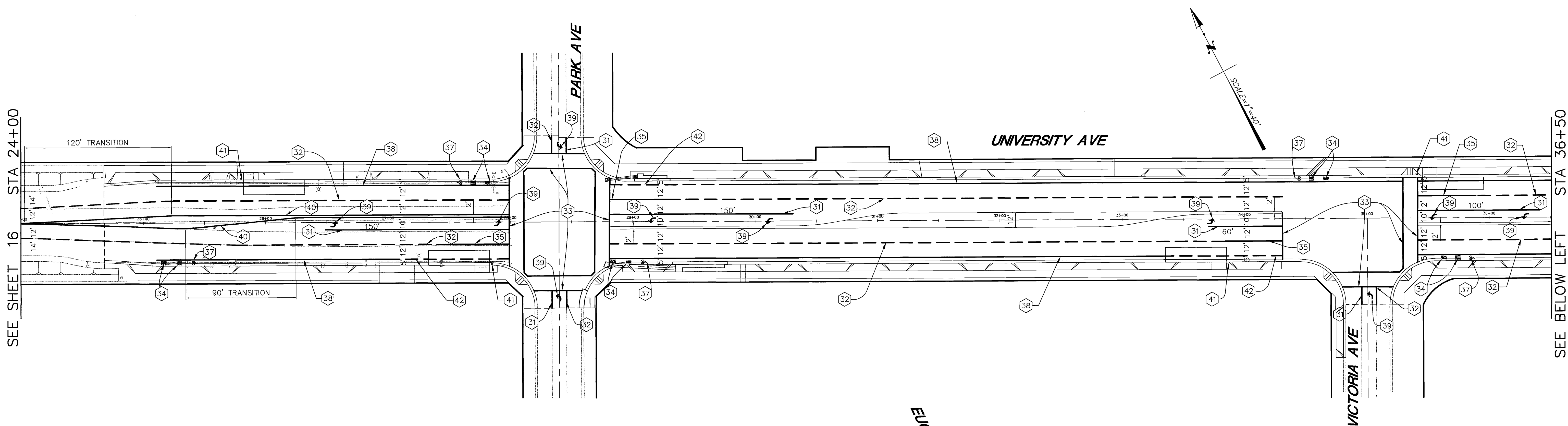
APPROVED BY:	BY:	DATE:
	<i>Tom Boyd</i>	3/23/04
PRINCIPAL ENGINEER	TRAFFIC DIVISION	PARKS DEPARTMENT
INSPECTOR	SURVEYOR	STREET SERVICES

**UNIVERSITY AVENUE
 WIDENING
 STRIPING PLAN**
 BETWEEN MULBERRY ST AND PARK AVE
 SCALE: 1" = 40'

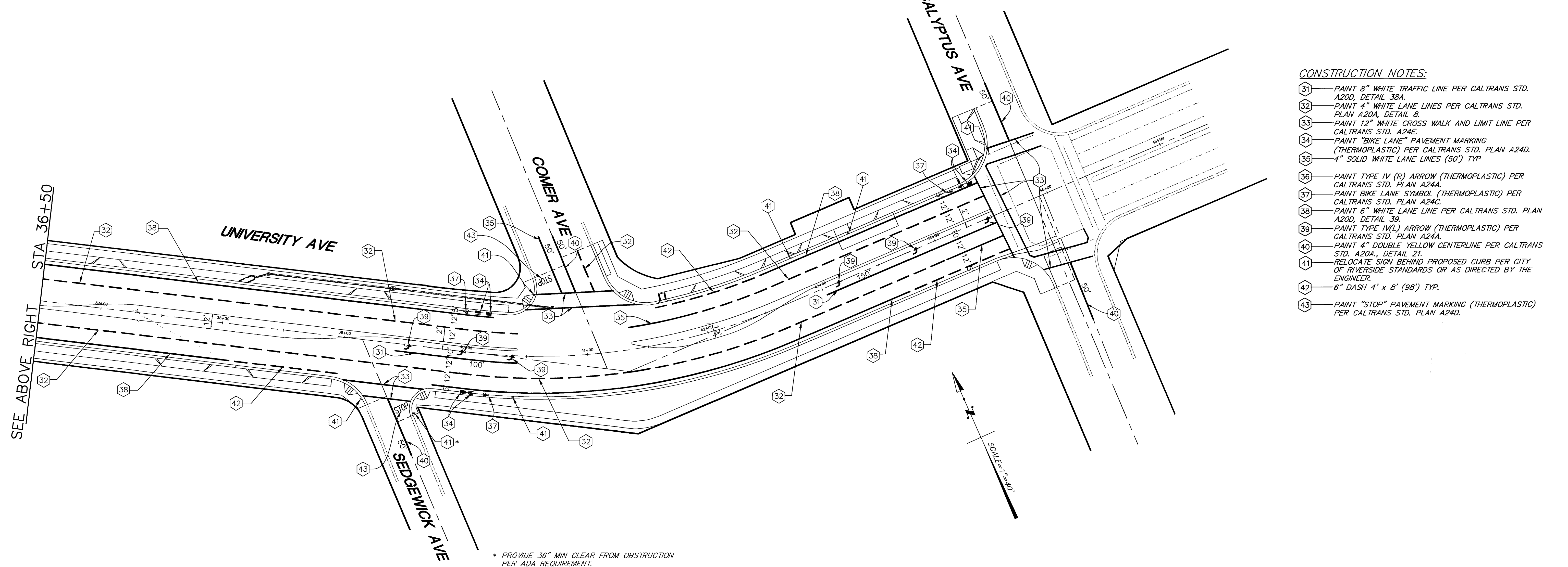
ACCT. NO. 957830214-440302XX
R-3747
 SHEET 16 OF 37
PC-6074-S/P

SEE SHEET 16 STA 24+00

SEE BELOW LEFT STA 36+50



SEE ABOVE RIGHT STA 36+50



- CONSTRUCTION NOTES:**
- 31 PAINT 8" WHITE TRAFFIC LINE PER CALTRANS STD. A20D, DETAIL 38A.
 - 32 PAINT 4" WHITE LANE LINES PER CALTRANS STD. PLAN A20A, DETAIL 8.
 - 33 PAINT 12" WHITE CROSS WALK AND LIMIT LINE PER CALTRANS STD. A24E.
 - 34 PAINT "BIKE LANE" PAVEMENT MARKING (THERMOPLASTIC) PER CALTRANS STD. PLAN A24D.
 - 35 4" SOLID WHITE LANE LINES (50') TYP
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 - 37 PAINT BIKE LANE SYMBOL (THERMOPLASTIC) PER CALTRANS STD. PLAN A24C.
 - 38 PAINT 6" WHITE LANE LINE PER CALTRANS STD. PLAN A20D, DETAIL 39.
 - 39 PAINT TYPE IV(L) ARROW (THERMOPLASTIC) PER CALTRANS STD. PLAN A24A.
 - 40 PAINT 4" DOUBLE YELLOW CENTERLINE PER CALTRANS STD. A20A., DETAIL 21.
 - 41 RELOCATE SIGN BEHIND PROPOSED CURB PER CITY OF RIVERSIDE STANDARDS OR AS DIRECTED BY THE ENGINEER.
 - 42 6" DASH 4' x 8' (98') TYP.
 - 43 PAINT "STOP" PAVEMENT MARKING (THERMOPLASTIC) PER CALTRANS STD. PLAN A24D.

* PROVIDE 36" MIN CLEAR FROM OBSTRUCTION PER ADA REQUIREMENT.

PSOMAS
 1700 Iowa Avenue, Suite 160
 Riverside, CA 92507
 (909) 787-8421 (909) 682-3379 (FAX)

ENGINEER IN RESPONSIBLE CHARGE
Michael J. Gentile
 MICHAEL J. GENTILE
 R.C.E. No. 58953 expires 8/30/07
 DATE 3-5-2004



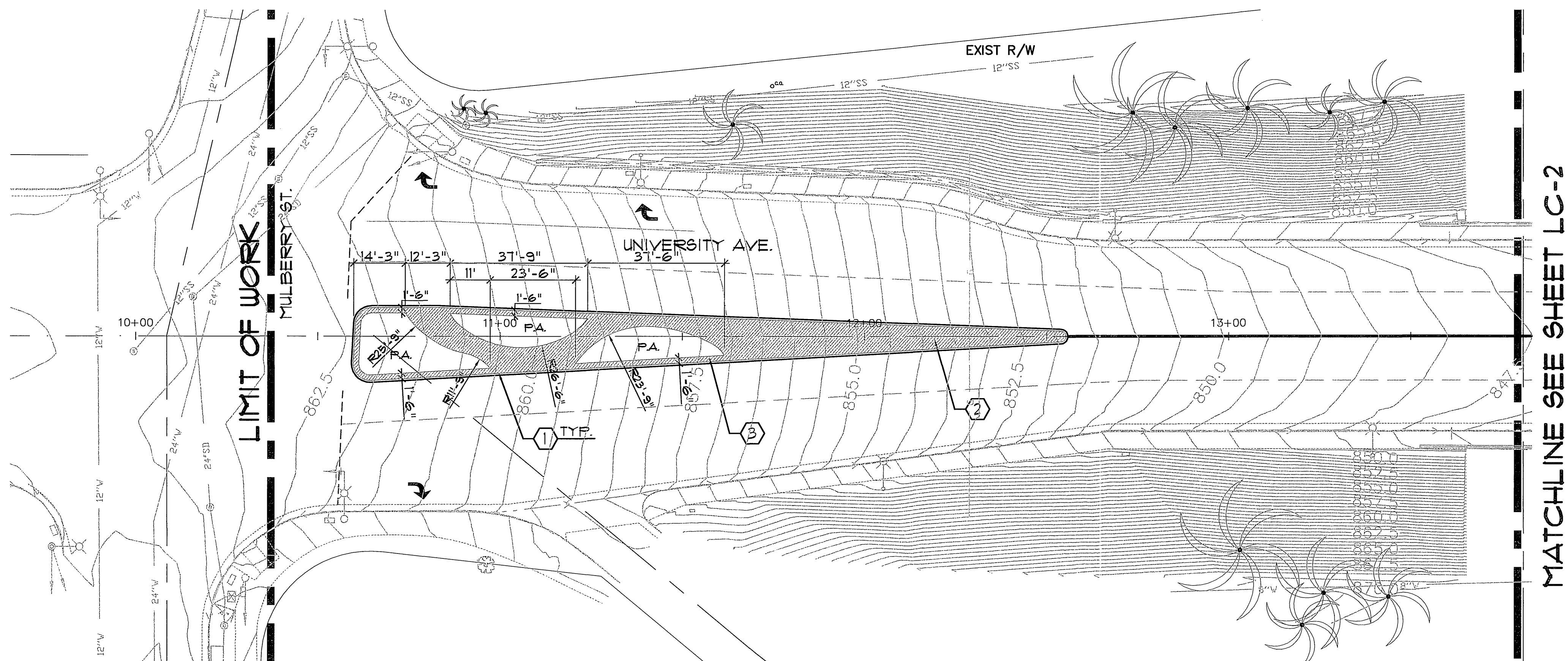
MARK	REVISIONS	APPR.	DATE
MG	AC		

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY:	BY:	DATE:
	<i>Tom Boyd</i>	3/23/04
PRINCIPAL ENGINEER	DLL	3/15/04
TRAFFIC DIVISION	2	3/15/04
PARKS DEPARTMENT	2	3/15/04
INSPECTION	2	3/15/04
SURVEYOR	2	3/15/04
STREET SERVICES	2	3/15/04

UNIVERSITY AVENUE WIDENING STRIPING PLAN
 BETWEEN PARK AVE AND EUCLYPTUS
 SCALE: 1" = 40'

ACCT. NO. 9577830214-440302XX
R-3747
 SHEET 17 OF 37
PC-6074-S/P



MATCHLINE SEE SHEET LC-2

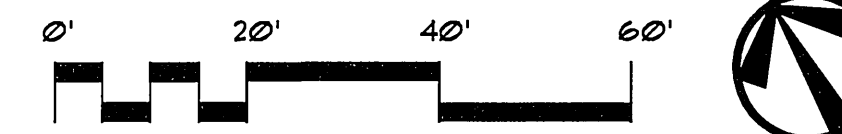
CONSTRUCTION ABBREVIATIONS

- TYP. TYPICAL
- P.A. PLANTING AREA
- TURF TURF AREA
- EQ. EQUAL

NOTE:
SEE PLANTING PLAN FOR PALM TREE
RELOCATIONS.

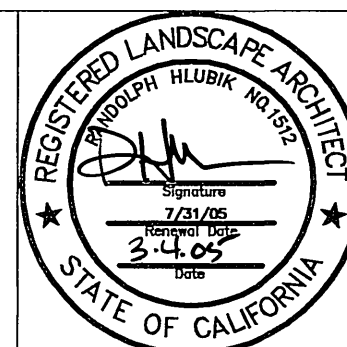
CONSTRUCTION LEGEND

BID STATUS	SYM.	QTY.	DESCRIPTION	REMARKS/DETAIL	SUPPLIER
BASE BID	1	-	CURB / CURB AND GUTTER	PER CIVIL ENGINEERING PLANS	N.A.
BASE BID	2	L.S.	CONSTRUCT RIVER COBBLE OVER CONCRETE MOTAR BED.	WHITE MOUNTAIN RIVER ROCK COBBLE ON MOTAR BED. CONSTRUCT 5' x 5' SAMPLE ON SITE FOR APPROVAL BY PARK PROJECTS INSPECTOR DETAILS 'A' & 'B', SHEET LCD-1	SUNLAND SAND & GRAVEL (602) 231-3210 (MATCH EXISTING UNIVERSITY AVE. MEDIANS FROM OTTAWA TO IOWA)
BASE BID	3	L.S.	CONCRETE MOW CURB	REFER TO CONSTRUCTION DETAIL C, SHEET LCD-1	N.A.
BASE BID	4	L.S.	CONCRETE DRAIN BOX, CHRISTY V3 WITH V3-TIC GRATE.	REFER TO CIVIL'S PLANS FOR DRAINAGE PIPE LAYOUT TO STORM DRAIN.	CHRISTY PRODUCTS
BASE BID	5	L.S.	CONCRETE CLEAN-OUT, BROOKS 1RT W/ CAST IRON COVER MARKED "CO"	REFER TO CIVIL'S PLANS FOR DRAINAGE PIPE LAYOUT TO STORM DRAIN.	BROOKS PRODUCTS



48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

PSOMAS
1700 Iowa Avenue, Suite 160
Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)



RIA
LANDSCAPE ARCHITECTS PLANNERS, INC.

3612 MISSION INN AVE
RIVERSIDE, CALIFORNIA 92501
LIC. #1512
PH. (909) 781-1930
FAX (909) 686-8091

MARK	REVISIONS	APPR.	DATE

**CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT**

APPROVED BY:	BY:	DATE:	APPROVED BY:
PRINCIPAL ENGINEER			
TRAFFIC DIVISION			
PARKS DEPARTMENT			
INSPECTOR			
SURVEYOR			
STREET SERVICES			

DATE: 3/23/04

UNIVERSITY AVENUE
WIDENING
CONSTRUCTION
PLAN

ACCT. NO. 8577830214-440302XX
R-3147-L
LC-1
SHEET 18 OF 37
PC-4373-M/PK2_PRR03-0013
1"=20' 03116

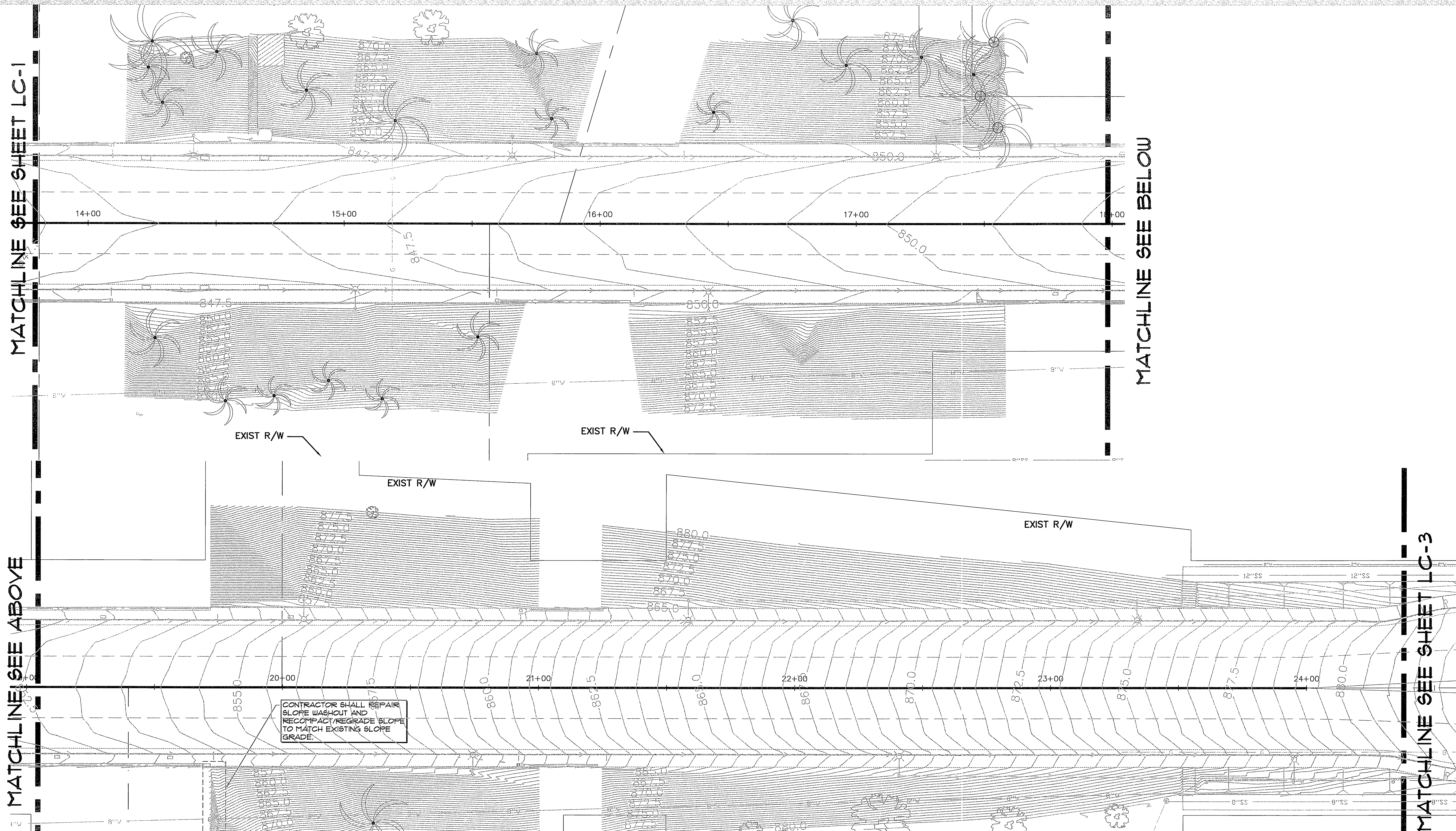
INDEXED 3-29-04 LH

MATCHLINE SEE SHEET LC-1

MATCHLINE SEE ABOVE

MATCHLINE SEE BELOW

MATCHLINE SEE SHEET LC-3



CONTRACTOR SHALL REPAIR SLOPE WASHOUT AND RECOMPACT/REGRADE SLOPE TO MATCH EXISTING SLOPE GRADE.

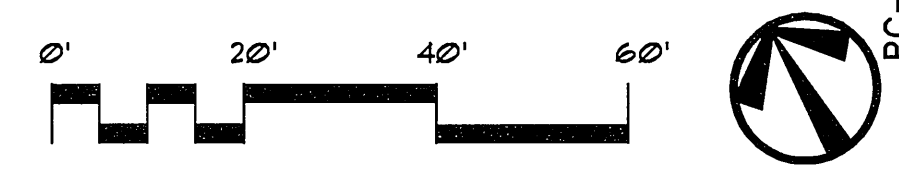
NOTE:
SEE PLANTING PLAN FOR PALM TREE RELOCATIONS.

CONSTRUCTION ABBREVIATIONS

- TYP. TYPICAL
- P.A. PLANTING AREA
- TURF TURF AREA
- EQ. EQUAL

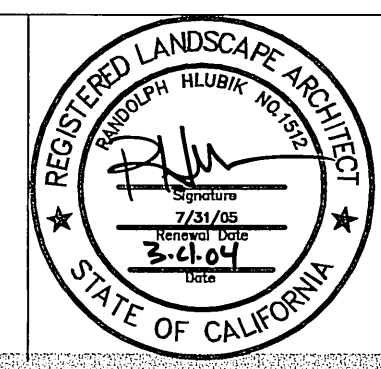
CONSTRUCTION LEGEND

BID STATUS	SYM.	QTY.	DESCRIPTION	REMARKS/DETAIL	SUPPLIER
BASE BID	1	-	CURB / CURB AND GUTTER	PER CIVIL ENGINEERING PLANS	N.A.
BASE BID	2	L.S.	CONSTRUCT RIVER COBBLE OVER CONCRETE MOTAR BED.	WHITE MOUNTAIN RIVER ROCK COBBLE ON MOTAR BED. CONSTRUCT 5' x 5' SAMPLE ON SITE FOR APPROVAL BY PARK PROJECTS INSPECTOR DETAILS 'A' & 'B', SHEET LCD-1	SUNLAND SAND & GRAVEL (602) 231-3210 (MATCH EXISTING UNIVERSITY AVE. MEDIANS FROM OTTAWA TO IOWA)
BASE BID	3	L.S.	CONCRETE MOW CURB	REFER TO CONSTRUCTION DETAIL C, SHEET LCD-1	N.A.
BASE BID	4	L.S.	CONCRETE DRAIN BOX. CHRISTY V3 WITH V3-11C GRATE.	REFER TO CIVIL'S PLANS FOR DRAINAGE PIPE LAYOUT TO STORM DRAIN.	CHRISTY PRODUCTS
BASE BID	5	L.S.	CONCRETE CLEAN-OUT. BROOKS IRT W/ CAST IRON COVER MARKED "CO"	REFER TO CIVIL'S PLANS FOR DRAINAGE PIPE LAYOUT TO STORM DRAIN.	BROOKS PRODUCTS



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Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)



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LANDSCAPE ARCHITECTS PLANNERS, INC.
3612 MISSION INN AVE
RIVERSIDE, CALIFORNIA 92501
LIC. #1512
PH. (909) 781-1930
FAX (909) 686-8091

DESIGNED BY:	DRAWN BY:	CHECKED BY:

**CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT**

APPROVED BY: *Tom Boyd*
DATE: 3/23/04
CITY ENGINEER

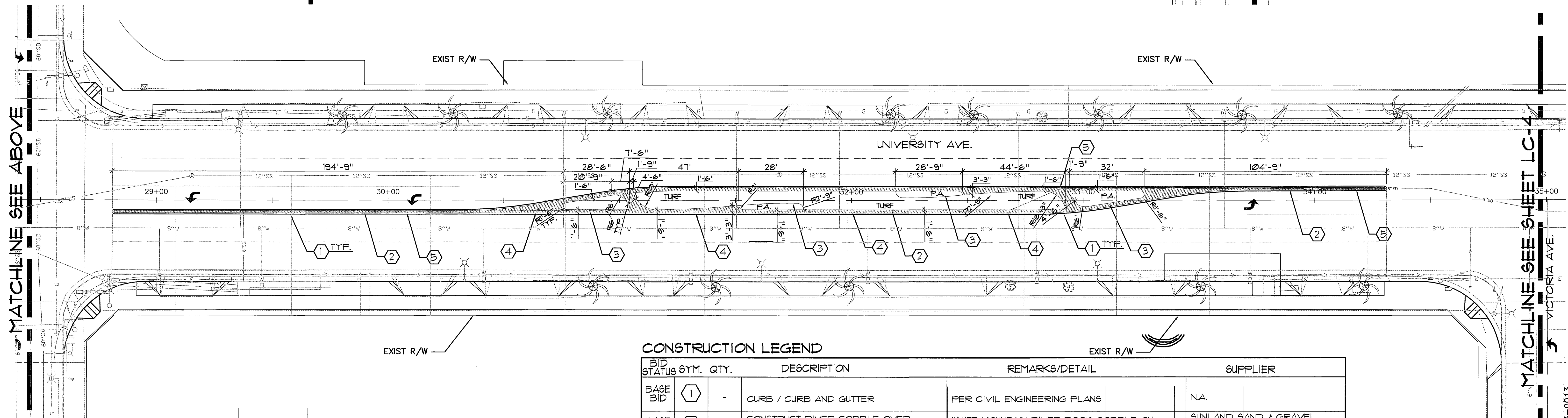
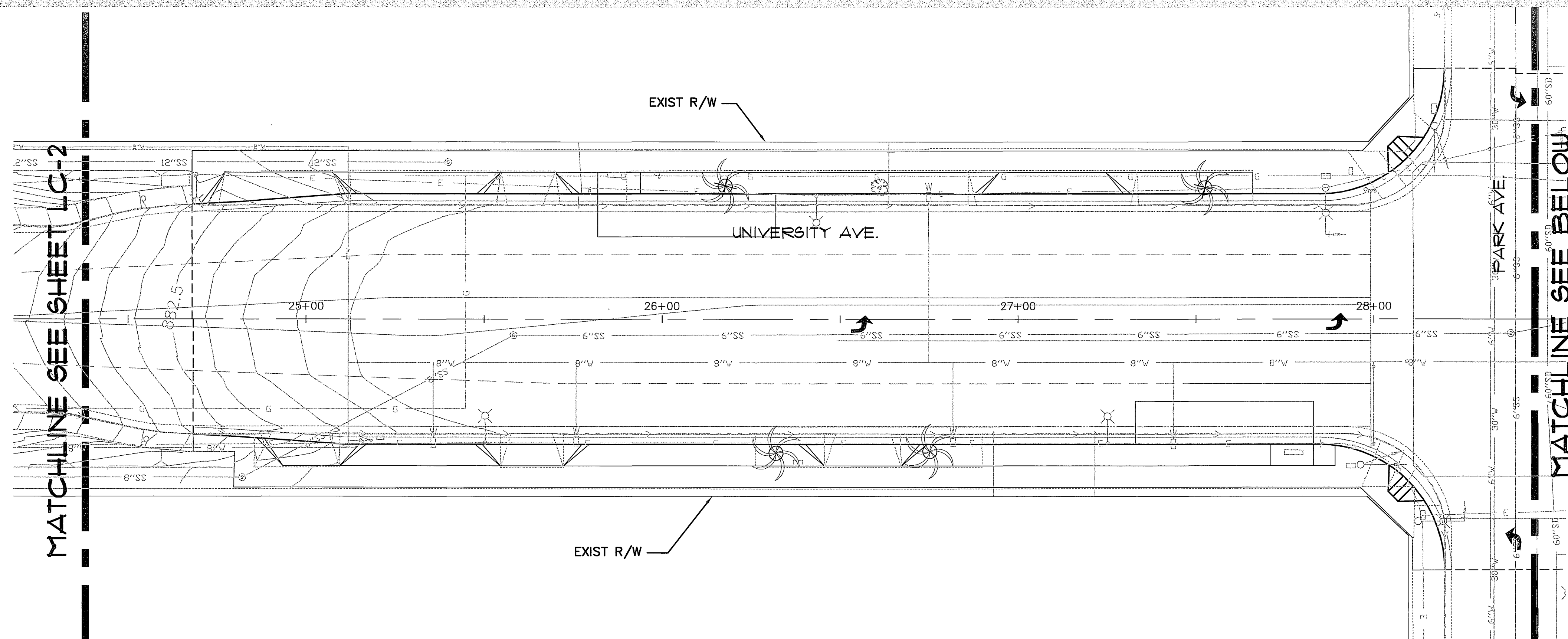
**UNIVERSITY AVENUE
WIDENING**

**CONSTRUCTION
PLAN**

ACCT. NO. 9577830214-4403020X
R-3141-L
LC-2
SHEET 19 OF 37
PC-4373-M/PK2-PRP03-0013
1"=20' 03116

INDEXED 3-29-04 LHL

PC-4373-M/PK2-PRP03-0013
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Mar 03, 2004 - 1:58pm
One Inch on Original Sheet



NOTE:
SEE PLANTING PLAN FOR PALM TREE
RELOCATIONS.

CONSTRUCTION ABBREVIATIONS
 TYP. TYPICAL
 P.A. PLANTING AREA
 TURF TURF AREA
 EQ. EQUAL

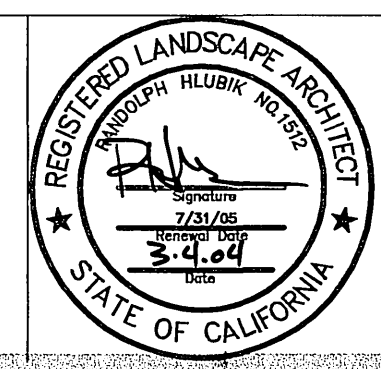
CONSTRUCTION LEGEND

BID STATUS	SYM.	QTY.	DESCRIPTION	REMARKS/DETAIL	SUPPLIER
BASE BID	1	-	CURB / CURB AND GUTTER	PER CIVIL ENGINEERING PLANS	N.A.
BASE BID	2	L.S.	CONSTRUCT RIVER COBBLE OVER CONCRETE MOTAR BED.	WHITE MOUNTAIN RIVER ROCK COBBLE ON MOTAR BED. CONSTRUCT 5' x 5' SAMPLE ON SITE FOR APPROVAL BY PARK PROJECTS INSPECTOR DETAILS 'A' & 'B', SHEET LCD-1	SUNLAND SAND & GRAVEL (602) 237-3210 (MATCH EXISTING UNIVERSITY AVE. MEDIANS FROM OTTAWA TO IOWA)
BASE BID	3	L.S.	CONCRETE MOW CURB	REFER TO CONSTRUCTION DETAIL C, SHEET LCD-1	N.A.
BASE BID	4	L.S.	CONCRETE DRAIN BOX. CHRISTY V3 WITH V3-TIC GRATE.	REFER TO CIVIL'S PLANS FOR DRAINAGE PIPE LAYOUT TO STORM DRAIN.	CHRISTY PRODUCTS
BASE BID	5	L.S.	CONCRETE CLEAN-OUT. BROOKS IRT W/ CAST IRON COVER MARKED "CO"	REFER TO CIVIL'S PLANS FOR DRAINAGE PIPE LAYOUT TO STORM DRAIN.	BROOKS PRODUCTS



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 1700 Iowa Avenue, Suite 160
 Riverside, CA 92507
 (909) 787-8421 (909) 682-3379 (FAX)



RLA
 LANDSCAPE ARCHITECTS PLANNERS, INC.

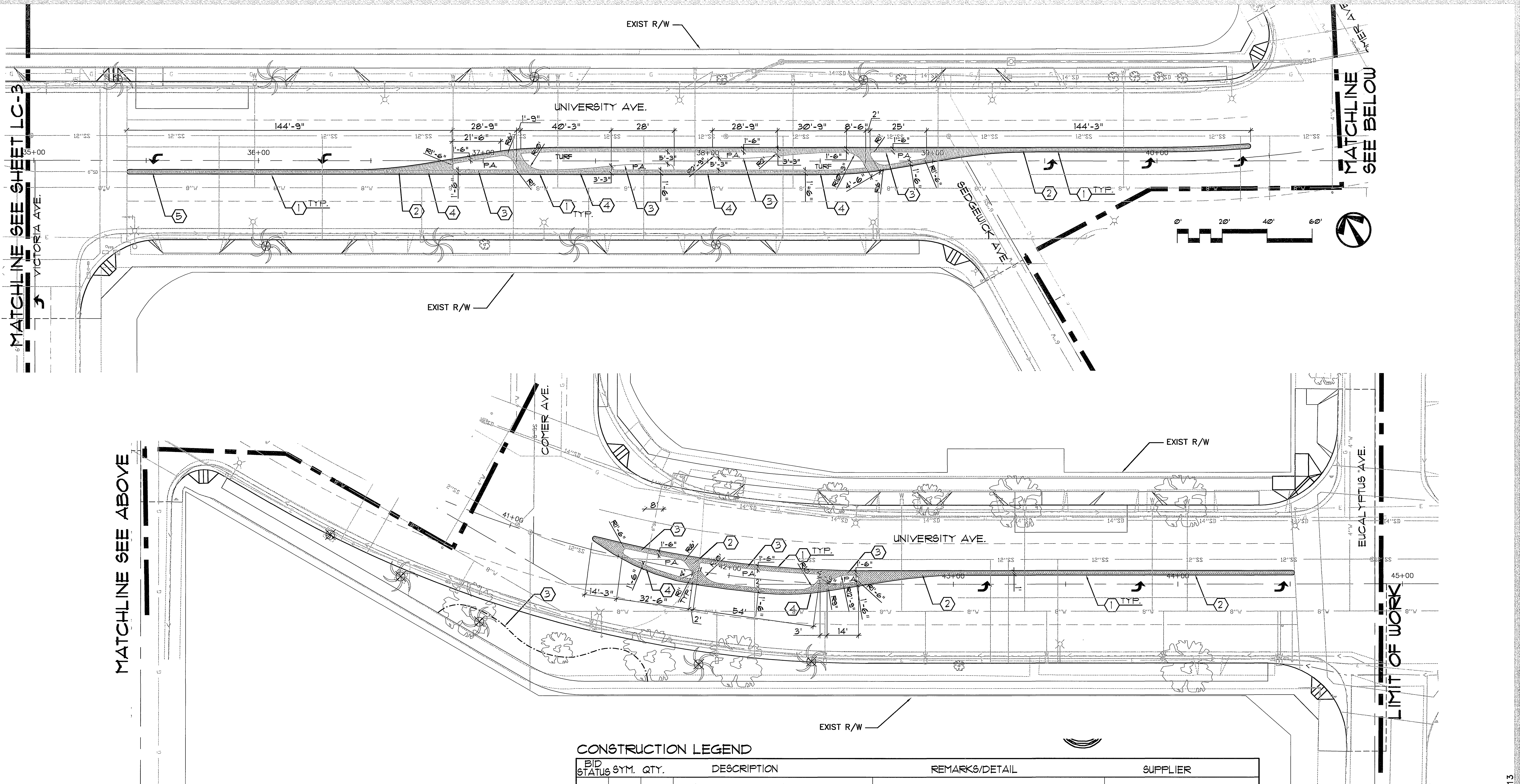
3612 MISSION INN AVE
 RIVERSIDE, CALIFORNIA 92501
 LIC. #1512
 PH. (909) 781-1930
 FAX (909) 686-8091

DESIGNED BY:	DRAWN BY:	CHECKED BY:
REVISIONS	APPR. DATE	INSPECTION SURVEYOR
MARK	DATE	DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
 APPROVED BY: *[Signature]*
 DATE: 3/23/04

UNIVERSITY AVENUE WIDENING
CONSTRUCTION PLAN

ACCT. NO. 9577830214-44030204
 R-3141-L
 LC-3
 SHEET 20 OF 37
 PC-4373-M/PK2-PRD03-0013
 1"=20' 0316



MATCHLINE SEE ABOVE

MATCHLINE SEE BELOW

NOTE:
SEE PLANTING PLAN FOR PALM TREE
RELOCATIONS.

CONSTRUCTION ABBREVIATIONS

TYP. TYPICAL
P.A. PLANTING AREA
TURF TURF AREA
EQ. EQUAL

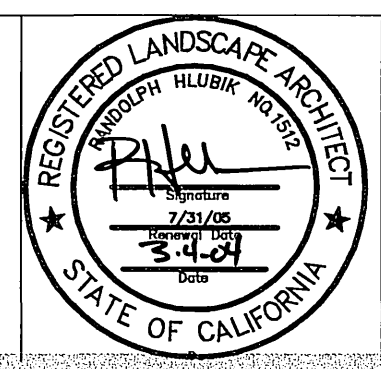
CONSTRUCTION LEGEND

BID STATUS	SYM.	QTY.	DESCRIPTION	REMARKS/DETAIL	SUPPLIER
BASE BID	1	-	CURB / CURB AND GUTTER	PER CIVIL ENGINEERING PLANS	N.A.
BASE BID	2	L.S.	CONSTRUCT RIVER COBBLE OVER CONCRETE MOTAR BED.	WHITE MOUNTAIN RIVER ROCK COBBLE ON MOTAR BED. CONSTRUCT 5' x 5' SAMPLE ON SITE FOR APPROVAL BY PARK PROJECTS INSPECTOR. DETAILS 'A' & 'B', SHEET LCD-1	SUNLAND SAND & GRAVEL (602) 231-3210 (MATCH EXISTING UNIVERSITY AVE. MEDIANS FROM OTTAWA TO IOWA)
BASE BID	3	L.S.	CONCRETE MOW CURB	REFER TO CONSTRUCTION DETAIL C, SHEET LCD-1	N.A.
BASE BID	4	L.S.	CONCRETE DRAIN BOX. CHRISTY V3 WITH V3-TIC GRATE.	REFER TO CIVIL'S PLANS FOR DRAINAGE PIPE LAYOUT TO STORM DRAIN.	CHRISTY PRODUCTS
BASE BID	5	L.S.	CONCRETE CLEAN-OUT. BROOKS 1RT W/ CAST IRON COVER MARKED "CO"	REFER TO CIVIL'S PLANS FOR DRAINAGE PIPE LAYOUT TO STORM DRAIN.	BROOKS PRODUCTS



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PSOMAS
1700 Iowa Avenue, Suite 160
Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)



RIA
LANDSCAPE ARCHITECTS PLANNERS, INC.

3612 MISSION INN AVE
RIVERSIDE, CALIFORNIA 92501
LIC. #1512
PH. (909) 781-1930
FAX (909) 686-8091

DESIGNED BY:	DRAWN BY:	CHECKED BY:
MARK	REVISIONS	APPR. DATE
INSPECTION	SURVEYOR	STREET SERVICES

**CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT**

APPROVED BY: *Steve Bigd*
DATE: 3/23/04
CITY ENGINEER

**UNIVERSITY AVENUE
WIDENING**

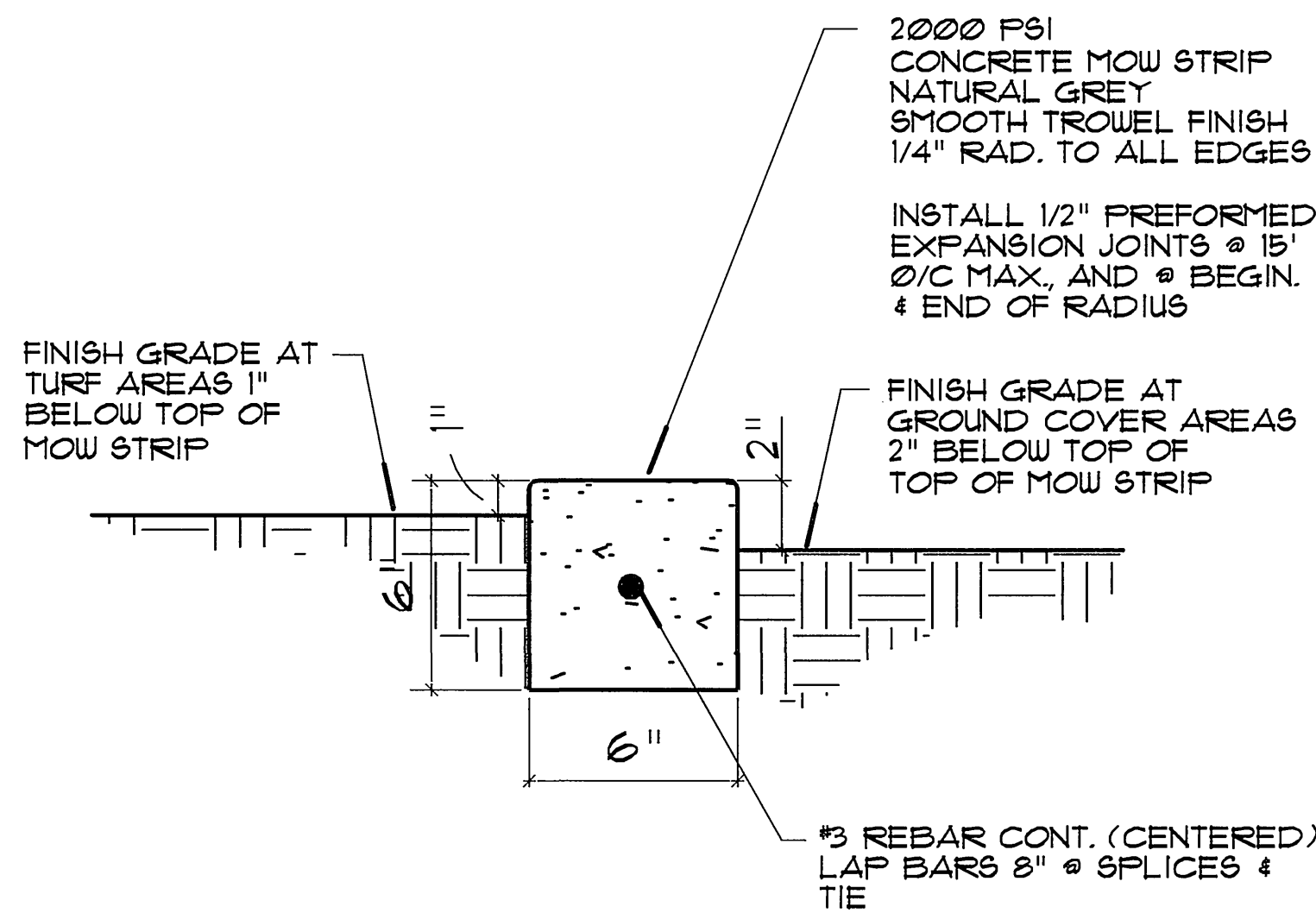
**CONSTRUCTION
PLAN**

ACCT. NO. 9577630214-440302X
R-3141-L
LC-4
SHEET 21 OF 31
PC-4373-M/PK2-PRPO3-0013
1"=20' 03116

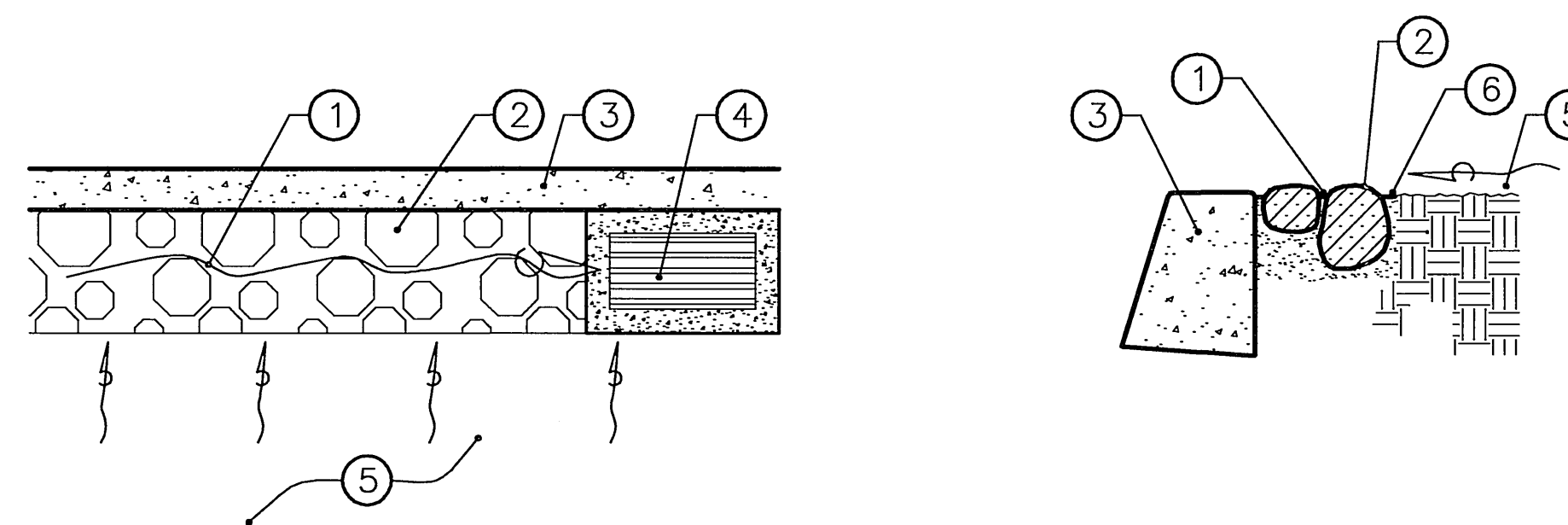
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- CONTRACTOR SHALL COORDINATE ALL WORK WITH ELECTRICIAN, DRAINLINE CONTRACTOR, AND IRRIGATION CONTRACTOR, AND IRRIGATION CONTRACTOR FOR SLEEVING AND PIPING UNDER ALL PAVING AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBGRADE COMPACTION UNDER ALL HARDSCAPE CONSTRUCTION ITEMS TO 90% OF STANDARD PROCTOR DENSITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONCRETE CONSTRUCTION WITHIN MEDIAN.
- ALL FORMS AND ALIGNMENT OF PAVING SHALL BE REVIEWED AND CONTRACTOR SHALL NOTIFY PARK PROJECTS INSPECTOR AT (909) 351-6251 A MINIMUM OF 48 HOURS PRIOR TO REVIEW.
- CONCRETE PAVING SHALL HAVE 2500 PSI/ 28 DAY COMPRESSIVE STRENGTH AND CONFORM TO ASTM STANDARDS C-39.
- ALL CONCRETE PAVING SHALL BE A MINIMUM OF 4" THICK, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL HOLD FINISH GRADE 1" @ TURF AND 2" @ GROUND COVER.
- SLOPE ALL DECORATIVE HARDSCAPE @ 2% MIN. TO DRAIN AWAY FROM STRUCTURES.

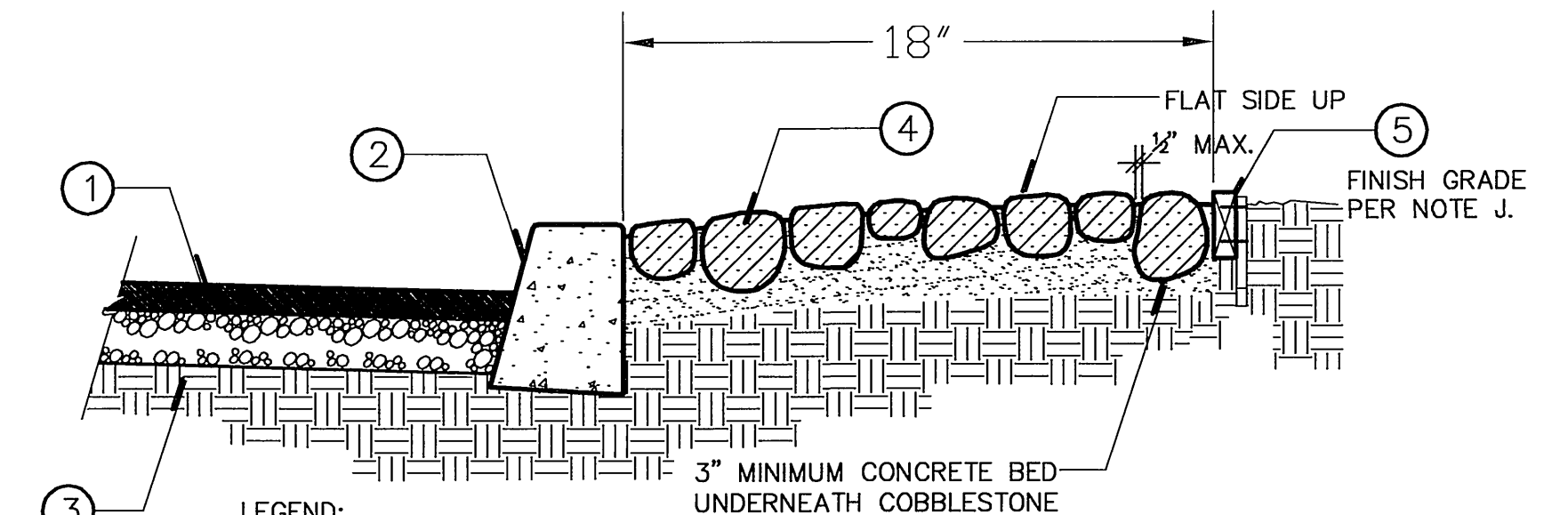


C CONCRETE MOW CURB



- LEGEND:
- DRAINAGE SWALE FLOWLINE
 - RIVER ROCK COBBLE
 - CONCRETE CURB (SEE ENGINEER'S PLAN)
 - DRAIN INLET/GRATE (ADJACENT TO BACK OF CURB)
 - PLANTER/TURF AREA
 - FINISH GRADE FLUSH TO FINISH SURFACE OF CONCRETE BETWEEN RIVER ROCK COBBLE

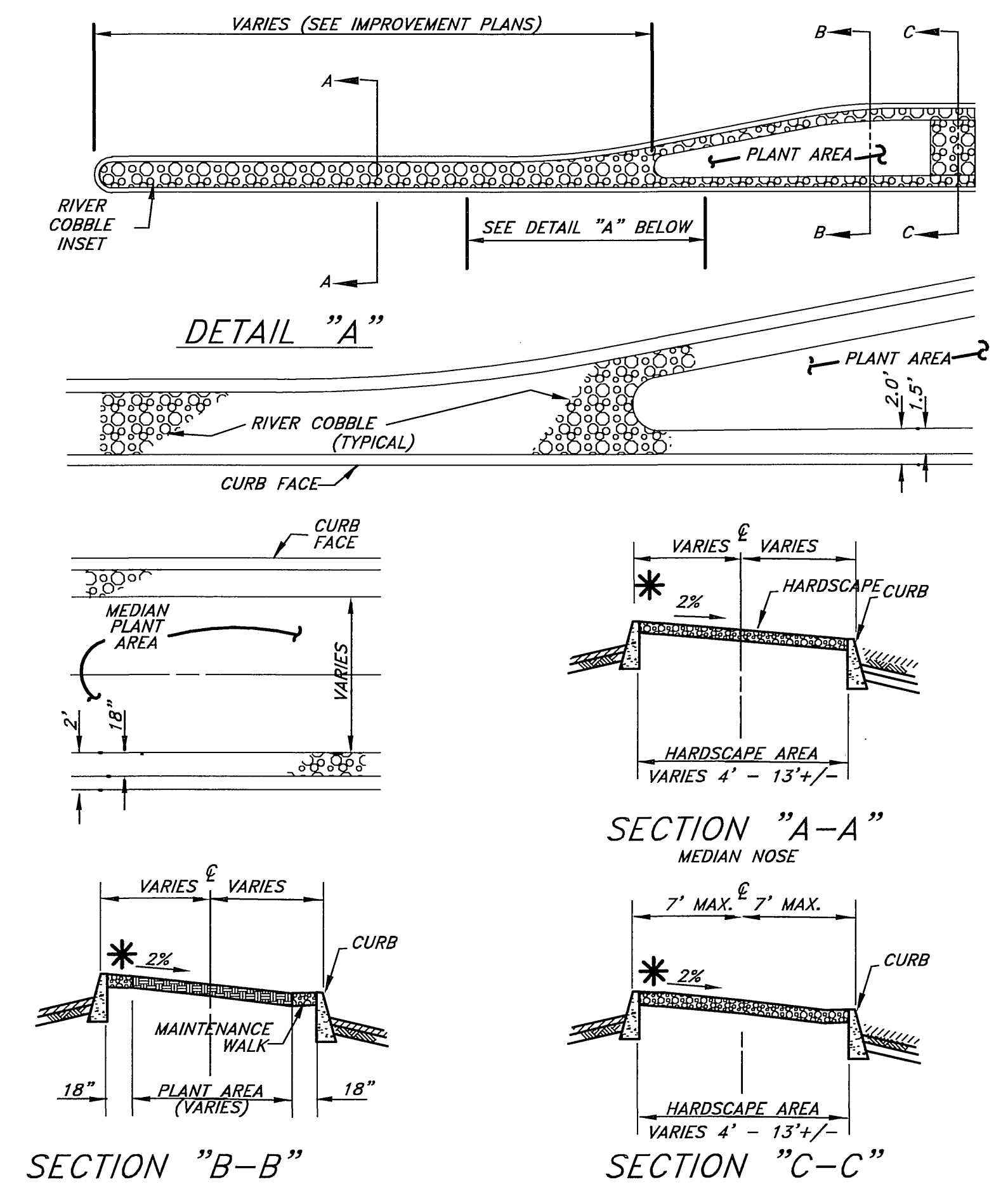
* DECORATIVE PAVEMENT SLOPE WHERE ADJACENT TO TURF SHALL NOT EXCEED 5:1, WHERE ADJACENT TO SHRUBS SLOPE SHALL NOT EXCEED 2:1. CROSS-SLOPE OF DECORATIVE PAVEMENT SHALL BE 2% MIN.



- LEGEND:
- A.C. PAVING PER CIVIL ENGINEER'S PLANS
 - CONCRETE CURB PER CIVIL ENGINEER'S PLANS
 - 90% COMPACTED SUBGRADE
 - RIVER ROCK COBBLE
 - INSTALL COBBLES WITH WOOD BENDERBOARD OR 2"x4" FORM AND REMOVE WHEN MORTAR IS SET.

- NOTES:
- ROCK SIZES, UNLESS OTHERWISE SPECIFIED, SHALL BE: WHITE GRANITE COBBLESTONES: MAX. 18" - MIN. 6" WITH ONE FLAT SIDE
 - COBBLES SHALL HAVE 2/3 EMBEDMENT W/ 1/4"-1/2" JOINTS.
 - ALL SPACES BETWEEN STONES SHALL BE FILLED (PIPED) WITH CLASS 'D' MORTAR, 1 PART CEMENT TO 2-1/2 PARTS SAND, 2000 PSI PORTLAND CEMENT CONCRETE. (NO "DRY-PACK" IS ALLOWED)
 - A SAMPLE AREA, MIN. 25 SQ. FT., SHALL BE APPROVED BY THE PARK PROJECT INSPECTOR AND LANDSCAPE ARCHITECT PRIOR TO PROCEEDING WITH REMAINING ROCK WORK.
 - FINAL RESTING POSITION OF ALL ROCKS TO BE APPROVED BY THE OWNER'S REPRESENTATIVE.
 - ROCKS SHALL BE SMOOTH, ROUNDED AND FREE OF OBJECTIONABLE DISFIGURATIONS AND EXCESSIVE IRON CONTENT.
 - CONCRETE CLASS 520-D-2500.
 - FILL JOINTS BY HAND PIPING WITH MORTAR MIX, TOOL AND SMOOTH JOINTS WITH BURLAP.
 - WIRE BRUSH SURFACE TO CLEAN-UP.
 - WHERE PLANTER AREA DRAINS INTO COBBLE DRAINAGE SWALE, FINISH GRADE SHALL BE FLUSH WITH THE TOP OF CONCRETE MORTAR AND SHALL NOT IMPEDE FREE MOVEMENT OF WATER DRAINAGE FROM PLANTER AREA TO DRAIN INLET.

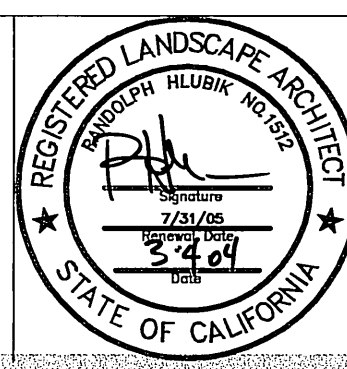
A RIVER COBBLE PAVING



E CONSTRUCTION NOTES

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Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)



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92501
LIC. #1512
PH. (909) 781-1930
FAX (909) 686-8091

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY: *Thom Boyd*
DATE: 3/23/04

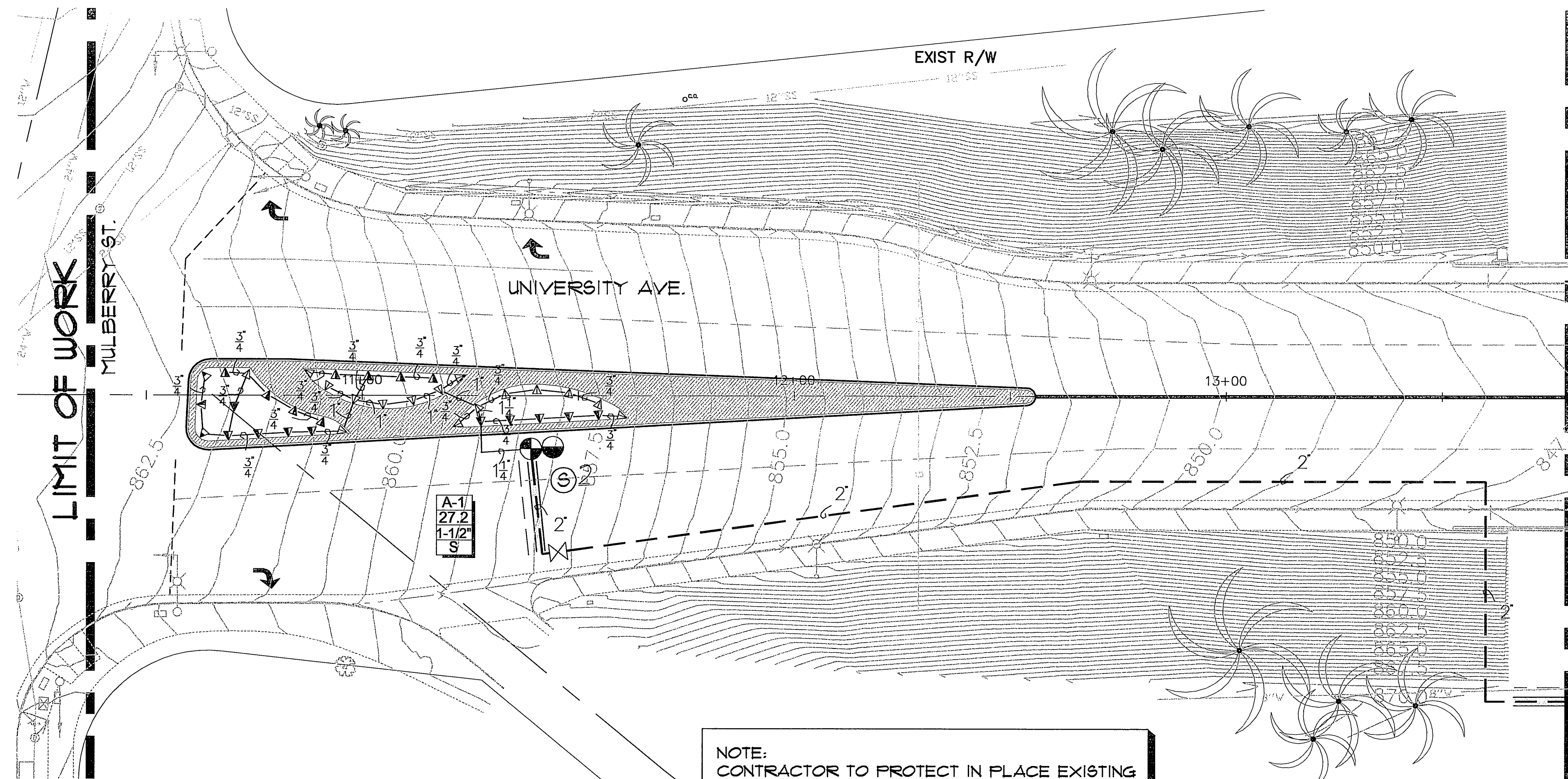
UNIVERSITY AVENUE
WIDENING

CONSTRUCTION
DETAILS

ACCT. NO. 9577830214-4403020X
R-3747-L
LCD-1
SHEET 22 OF 37
PC-4373-M/PK2_PRR03-0013
0316

INDEXED 3-29-04 LFH

PC-4373-M/PK2_PRR03-0013
Drawing File: N:\Projects\03prj\03116 UniAve\AutoCAD\DWG\03116.dwg\CD\100% final\myera 03116.rvt CD Mar 03, 2004 - 2:16pm



MATCHLINE SEE SHEET LP-2

NOTE:
CONTRACTOR TO PROTECT IN PLACE EXISTING IRRIGATION ON SLOPES BETWEEN STATIONS 10+50 TO 13+10.

NOTE:
CONTRACTOR TO REMOVE AND CAP EXISTING GALVANIZED QUICK COUPLER IRRIGATION BELOW GRADE ON SLOPES BETWEEN STATIONS 14+15 TO 24+00.

IRRIGATION LEGEND

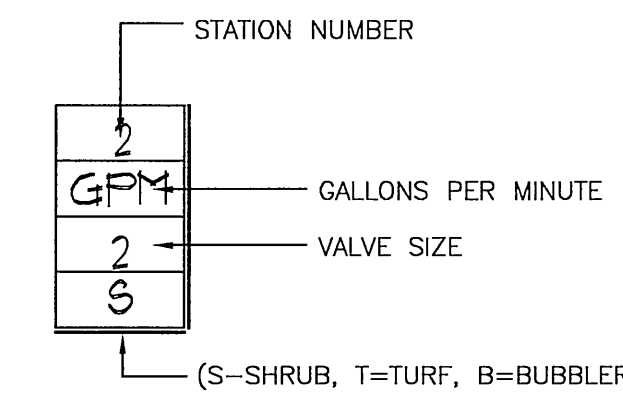
SYMBOL	MANUFACTURER/MODEL 2	NOZZLE	RAD.	PSI	FLOW (GPM)						DETAIL	NOTES
					Q	T	H	F	Van			
SHRUB HI-POP SPRAY HEADS												
⊙	RAINBIRD 1812-SAM-PRS-5	Q/H/F/VAN	5'	30	.10	.13	.20	.41	.37	.60/1.20	4040/LID2	
▽	RAINBIRD 1812-SAM-PRS-8	Q/H/F/VAN	8'	30	.26	.35	.52	1.05	.72	1.19/1.7	4040/LID2	
⊕	RAINBIRD 1812-SAM-PRS-10	Q/H/F/VAN	10'	30	.39	.53	.79	1.58	.75	1.45/2.6	4040/LID2	
⊙	RAINBIRD 1812-SAM-PRS-12	Q/H/F/VAN	12'	30	.65	.87	1.3	2.6	.65	1.30/2.6	4040/LID2	
⊙	RAINBIRD 1812-SAM-PRS-15	Q/H/F/VAN	15'	30	.92	1.23	1.85	3.7	.92	1.85/3.70	4040/LID2	
SHRUB HI-POP ROTOR HEADS												
⊕	HUNTER 1-20-HF-AD8-.75GR	.75 (Q)	25'	50	.75						'A'/LID2	
⊕	HUNTER 1-20-HF-AD8-1.5GR	1.5 (H)	25'	50			1.5				'A'/LID2	
⊕	HUNTER 1-20-HF-36S-3.0GR	3.0 (F)	25'	50				3.0			'A'/LID2	
TURF POP-UP SPRAY HEADS												
⊙	RAINBIRD 1806-SAM-PRS-5	Q/H/F/VAN	5'	30	.10	.13	.20	.41	.37	.60/1.20	4040/LID2	9
▽	RAINBIRD 1806-SAM-PRS-8	Q/H/F/VAN	8'	30	.26	.35	.52	1.05	.72	1.19/1.7	4040/LID2	9
⊕	RAINBIRD 1806-SAM-PRS-10	Q/H/F/VAN	10'	30	.39	.53	.79	1.58	.75	1.45/2.6	4040/LID2	9
⊙	RAINBIRD 1806-SAM-PRS-12	Q/H/F/VAN	12'	30	.65	.87	1.3	2.6	.65	1.30/2.6	4040/LID2	9
⊙	RAINBIRD 1806-SAM-PRS-15	Q/H/F/VAN	15'	30	.92	1.23	1.85	3.7	.92	1.85/3.70	4040/LID2	9
PALM TREE BUBBLERS												
⊕	RAINBIRD RW8-BG BUBBLER	F		30				.25			4034/LID1	(13)

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL 2	SIZE	DETAIL	NOTES
M	IRRIGATION WATER METER - BY OTHERS	1 1/2"	-	-
⊗	NIBCO T585 BALL VALVE 2" & SMALLER NIBCO T-136 NRS GATE VALVE 2 1/2" & LARGER	LINE SIZE	4052/LID1	(2, 3)
⊗	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER, 2" AND SMALLER LINE SIZE. FEBCO 825YD 2 1/2" AND LARGER LINE SIZE	PER PLAN	4011/LID1	(2, 3)
A	CALSENSE ET2000-LR-RR IN 8SE ENCLOSURE	PER PLAN	4070/LID1	(2, 3)
⊕	RAINBIRD PE8B SERIES ELECTRIC CONTROL VALVE	PER PLAN	4030/LID1	(4)
⊕	RAINBIRD 44LRC QUICK COUPLING VALVE	1"	4050/LID2	-
S	CALSENSE FLOW METER FM-15	15"	'B'/LID2	(2, 3)
⊕	GRISWOLD 2250 MASTER VALVE	LINE SIZE	'B'/LID2	(2, 3)
⊕2	SPARE COMMON AND PILOT WIRES, COLOR TO DIFFER FROM SITE WIRING	-	4010/LID2	-
---	4" AND LARGER CL200 PVC, 2" THRU 3" CL315 PVC, 1 1/2" AND SMALLER SCH 40 PVC MAINLINE - 18" MINIMUM COVER	PER PLAN	4010/LID2	(2, 3)
---	CL 200 PVC NON-PRESSURE LATERAL LINE - 12" MIN. COVER	PLAN SIZE	4010/LID2	(2, 3)
---	SCH 40 PVC IRRIGATION PIPE SLEEVE - 24" MIN. COVER SCH 40 PVC WIRE SLEEVE - 24" MIN. COVER	SEE CHART	'C'/LID2	(1)
---	NOT SHOWN	UF RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT - 18" MIN. COVER	12/14 GA	4010/LID2
---	CONCRETE MOWCURB - FOR REFERENCE ONLY. TO BE INSTALLED PER PLANTING PLAN			

- NOTE: ALL VALVE BOXS TO BE CONCRETE BOX WITH CAST IRON NON-HINGED LOCKING LIDS.
- EXTEND SLEEVING 12" MIN. PAST HARDSCAPE INTO PLANTERS OR TURF PLANTING.
 - PIPES AND VALVES ARE SHOWN IN HARDSCAPE FOR CLARITY ONLY.
 - ALL MAINLINE TEES AND 90'S ARE TO BE SCH 40 PVC.
 - COORDINATE ELEC. POINT OF CONNECTION WITH ELECTRICAL CONTRACTOR PER DETAIL.
 - 4" AND LARGER USE RUBBER GASKETED PIPE WITH CAST IRON FITTINGS AND MECHANICAL JOINT RESTRAINTS.
 - 3" AND SMALLER USE SOLVENT WELD PIPE WITH PVC SCHEDULE 80 FITTINGS.
 - ALL SHRUB HEADS LOCATED AT BASE OF SLOPE, ADJACENT TO WALKS, DRIVES AND TURF SHALL BE INSTALLED ON 12" POP-UP BODIES.
 - THE CONTRACTOR SHALL USE VARIABLE ARC NOZZLES (VAN) TO OBTAIN BETTER COVERAGE WHEN NEEDED.
 - WHEN VERTICAL OBSTRUCTIONS (FIRE HYDRANTS, STREET LIGHTS, TREES, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE SPRINKLER HEADS SO AS TO PREVENT PROPER COVERAGE, THE CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER CIRCLE OR HALF CIRCLE SPRINKLER HEAD ON EACH SIDE OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE CITY.
 - MAINLINE, VALVES, IRRIGATION METERS, ETC., ARE SHOWN ON THE STREET AND/OR SIDEWALK FOR CLARIFICATION ONLY. INSTALL IN PLANTER AREA THROUGHOUT THE SITE.
 - ADJUST ALL SPRINKLERS FOR 100% COVERAGE.
 - AFTER ESTABLISHMENT OF ALL PLANT MATERIAL, CONTROLLERS SHALL BE PROGRAMMED TO IRRIGATE SOLELY DURING THE HOURS OF 9 PM. AND 6 AM.
 - SYMBOL REPRESENTS TWO RAINBIRD RW8-BG BUBBLERS PER PALM TREE SPACED DIAGONALLY.
 - THRUST BLOCKS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, OR THE USE OF JOINT RESTRAINTS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - TWO FOOT (2') EXPANSION LOOPS SHALL BE USED ON ALL 45 & 90 DEGREE TURNS IN DIRECTION.

VALVE CALL-OUT



IRRIGATION INFORMATION

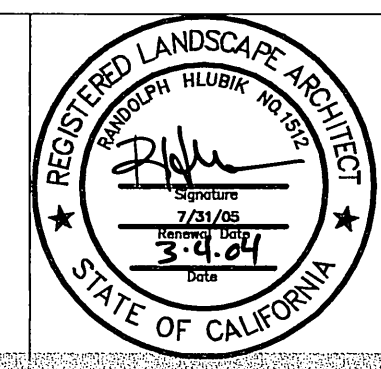
APPROX. STATIC PRESSURE: 78 PSI
 MAXIMUM DEMAND: 50 GPM
 STATIC PRESSURE BASED ON THE INFORMATION OBTAINED FROM CITY OF RIVERSIDE PUBLIC UTILITIES ON 9-16-03. HGL = 1080'

SCH 40 PVC SLEEVING CHART

SLEEVE SIZE	WIRES	PIPE SIZE
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	2 1/2"/3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

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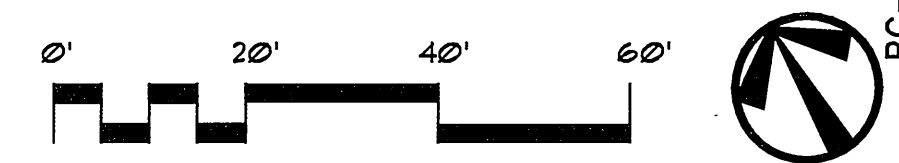
3612 MISSION INN AVE
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 LIC. #1512
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 FAX (909) 686-8091

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 DATE: 3/23/04

UNIVERSITY AVENUE
 WIDENING
 IRRIGATION
 PLAN

ACCT. NO. 9577830214-44030204
 R-3747-L
 LI-1
 SHEET 23 OF 37
 PC-4373-M/PK2-PRP03-0013
 1"=20' 03116



INDEXED 3-29-04 LHM

PC-4373-M/PK2-PRP03-0013
 Mar 03, 2004 2:46pm
 One inch on Original Sheet Drawing File: N:\Projects\03\p103116\Unlabeled\AutoCAD\BHA.dwg(CD\03\100% final.mxd) (03/16/04)



PRESSURE LOSS CALCULATIONS
(VALVE A-1 @ 21 GPM)

LOSS THRU 1" WATER METER	4.3 PSI
LOSS THRU 1 1/2" R/P DEVICE	11.00 PSI
LOSS THRU 350' OF 2" MAIN	2.5 PSI
LOSS THRU 2 GATE VALVES	1.9 PSI
LOSS THRU 1 1/2" VALVE	3.8 PSI
LOSS THRU LATERAL LINES	2.5 PSI
ELEVATION GAIN	2.2 PSI
MISC. LOSS THRU FITTINGS	1.2 PSI
TOTAL SYSTEM LOSSES	26.0 PSI
PRESSURE REQUIRED AT HEAD	3.0 PSI
REGULATED STATIC PRESSURE	18 PSI
PUMP BOOST	0 PSI
RESIDUAL PRESSURE	22.0 PSI

CONTRACTOR SHALL MAKE POINT OF CONNECTION AT 2" MAINLINE. INSTALL ~~NEW~~ IRRIGATION WATER METER AND 1 1/2" REDUCED PRESSURE BACKFLOW PREVENTER PER DETAIL 4010 SHI, LID!

EXISTING STATIC WATER PRESSURE _____ 18 PSI
 SYSTEM DESIGN PRESSURE _____ 36 PSI
 PEAK IRRIGATION DEMAND _____ 21 GPM

AUTOMATIC IRRIGATION CONTROLLER (CALSENSE / EZ2000 16 STATION) TO BE INSTALLED IN SEE ENCLOSURE. SEE DETAIL 4010 SHEET LID!

GROUND CONTROLLER WITH 1/2" BY 3 FOOT COPPER ROD.

NOTE:
 CONTRACTOR TO REMOVE AND CAP EXISTING GALVANIZED QUICK COUPLER IRRIGATION BELOW GRADE ON SLOPES BETWEEN STATIONS 14+15 TO 24+80.

MATCHLINE SEE SHEET LP-1

MATCHLINE SEE BELOW

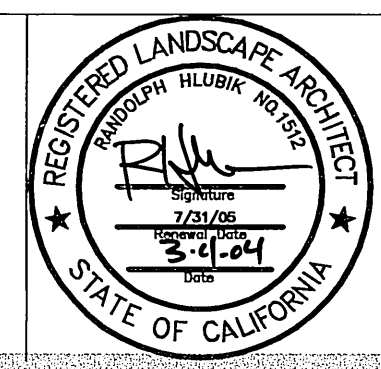
MATCHLINE SEE ABOVE

MATCHLINE SEE SHEET LP-3

REFER TO SHEET LI-1 FOR IRRIGATION LEGEND

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MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

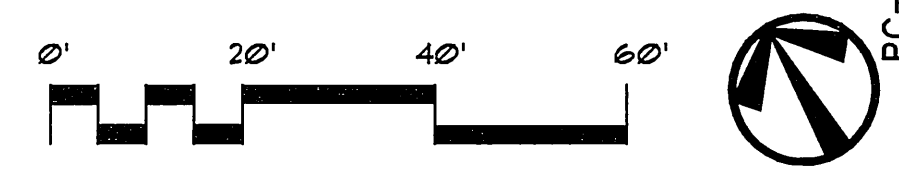
APPROVED BY:	BY:	DATE:	APPROVED BY:
	DJA	3/23/04	<i>[Signature]</i>
PRINCIPAL ENGINEER			CITY ENGINEER
TRAFFIC DIVISION			
PARKS DEPARTMENT			
INSPECTION			
SURVEYOR			
STREET SERVICES			

DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____ DATE: 3/23/04

UNIVERSITY AVENUE
 WIDENING

IRRIGATION
 PLAN

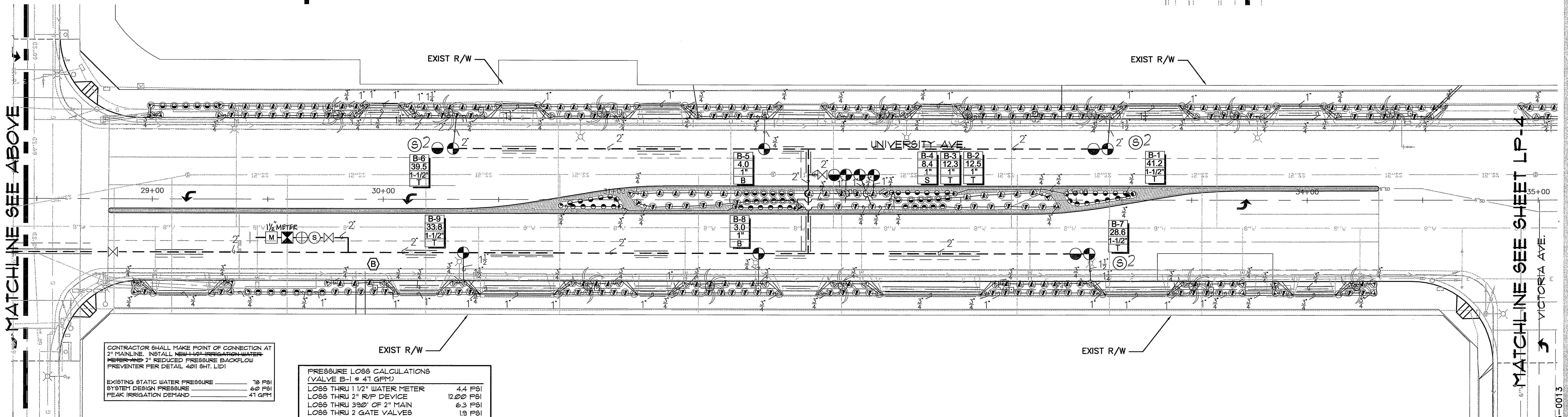
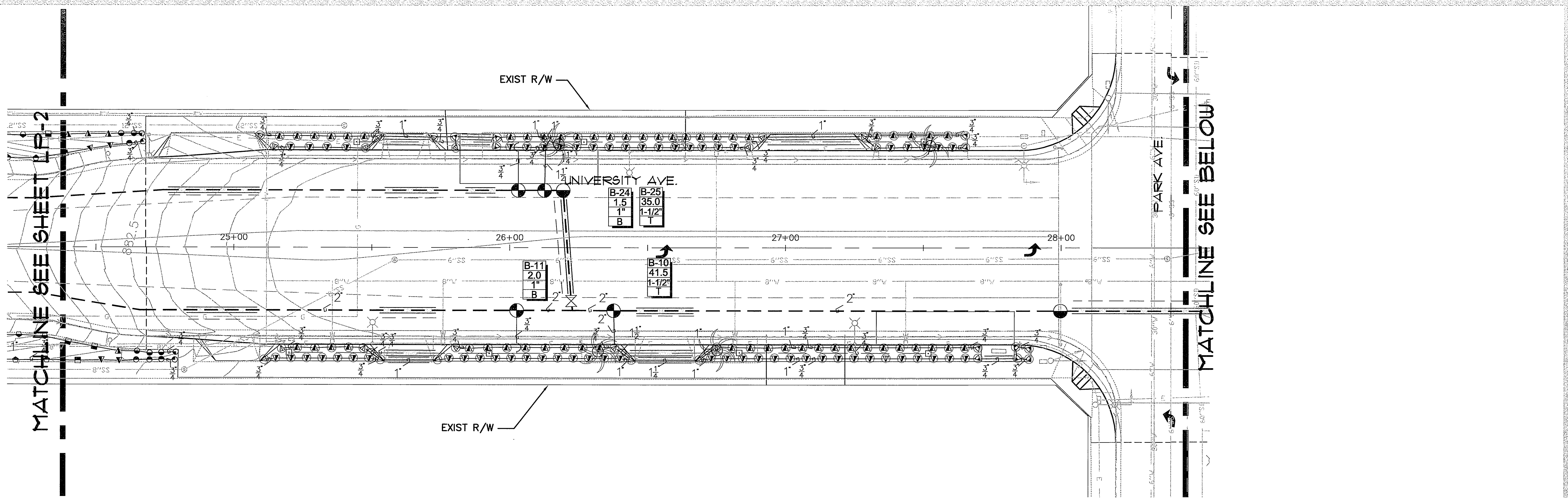
ACCT. NO. 9577830214-44030202
 R-3141-L
 LI-2
 SHEET 24 OF 31
 PC-4373-M/FK2_PRR03-0013
 1"=20' 03116



INDEXED 3-29-04 lft

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 Drawing File: N:\Projects\03prj\03116\Unl\AutoCAD\PR03.dwg\CD\03116\lft.mxd

NOTE:
CONTRACTOR TO REMOVE AND CAP EXISTING GALVANIZED QUICK COUPLER IRRIGATION BELOW GRADE ON SLOPES BETWEEN STATIONS 14+45 TO 24+80.



CONTRACTOR SHALL MAKE POINT OF CONNECTION AT 2" MAINLINE. INSTALL NEW 1/2" IRRIGATION WATER METER AND 2" REDUCED PRESSURE BACKFLOW PREVENTER PER DETAIL 4011 SHI. LID!

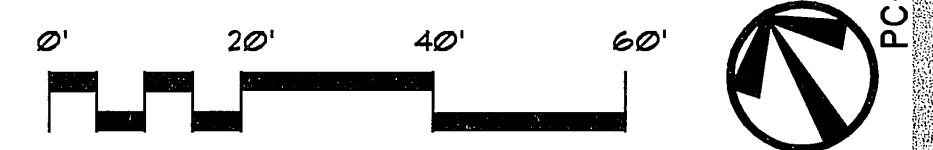
EXISTING STATIC WATER PRESSURE 78 PSI
SYSTEM DESIGN PRESSURE 60 PSI
PEAK IRRIGATION DEMAND 41 GPM

AUTOMATIC IRRIGATION CONTROLLER (CALSENSE / EZ200, 32 STATION) TO BE INSTALLED IN SEE ENCLOSURE. SEE DETAIL 4010 SHEET LID!

GROUND CONTROLLER WITH 1/2" BY 5 FOOT COPPER ROD.

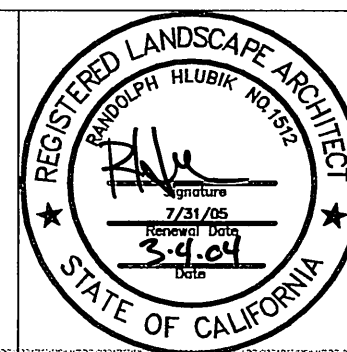
PRESSURE LOSS CALCULATIONS (VALVE B-1 @ 41 GPM)	
LOSS THRU 1 1/2" WATER METER	4.4 PSI
LOSS THRU 2" R/P DEVICE	12.00 PSI
LOSS THRU 350' OF 2" MAIN	6.3 PSI
LOSS THRU 2 GATE VALVES	1.9 PSI
LOSS THRU 1 1/2" VALVE	2.4 PSI
LOSS THRU LATERAL LINES	1.2 PSI
ELEVATION GAIN	2.2 PSI
MISC. LOSS THRU FITTINGS	.12 PSI
TOTAL SYSTEM LOSSES	30.5 PSI
PRESSURE REQUIRED AT HEAD	30 PSI
REGULATED STATIC PRESSURE	18 PSI
PUMP BOOST	0 PSI
RESIDUAL PRESSURE	17.5 PSI

REFER TO SHEET LI-1 FOR IRRIGATION LEGEND



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RIVERSIDE, CALIFORNIA 92501
LIC. #1512
PH. (909) 781-1930
FAX (909) 686-8091

DESIGNED BY	DRAWN BY	CHECKED BY

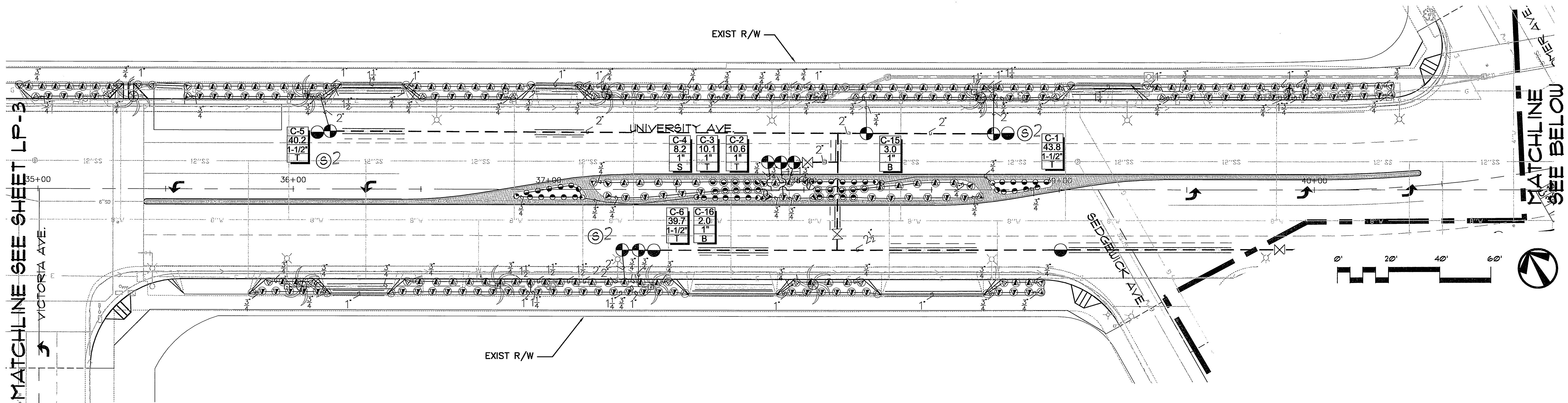
CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	DT	3/14/04
TRAFFIC DIVISION	DT	3/14/04
PARKS DEPARTMENT	DT	3/11/04
INSPECTION	DT	3/15/04
SURVEYOR	DT	3/15/04
STREET SERVICES	DT	3/15/04

UNIVERSITY AVENUE
WIDENING
IRRIGATION
PLAN

ACCT. NO. 9577830214-44030202
R-3141-L
LI-3
SHEET 25 OF 31
PC-4373-M/PK2_PRR03-0013
1"=20'
03116

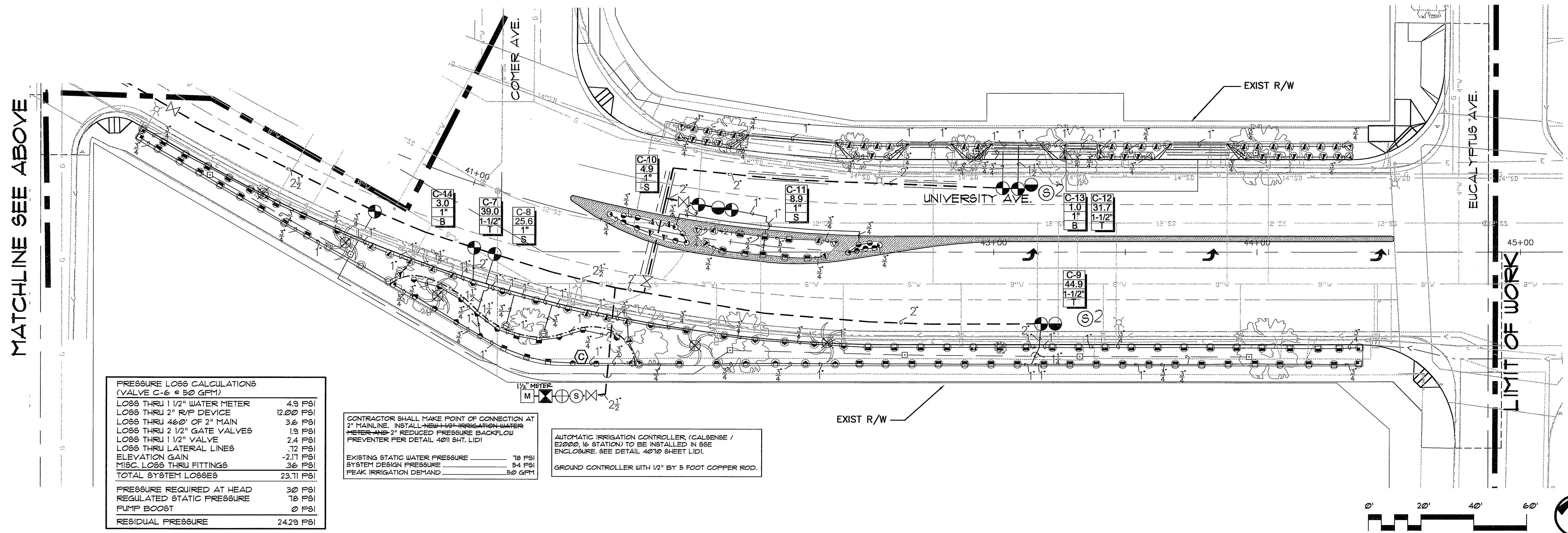
INDEXED 3-29-04 ltl

PC-4373-M/PK2_PRR03-0013
Drawing File: N:\Projects\03prj\03176 UnivAve\AutoCAD\PRR03.dwg (CD81000% Final mxd) 03176L Mar 03, 2004 - 2:39pm



MATCHLINE SEE SHEET LP-3

MATCHLINE SEE BELOW



MATCHLINE SEE ABOVE

LIMIT OF WORK

PRESSURE LOSS CALCULATIONS (VALVE C-6 @ 50 GPM)	
LOSS THRU 1 1/2" WATER METER	4.9 FSI
LOSS THRU 2" R/P DEVICE	12.00 FSI
LOSS THRU 460' OF 2" MAIN	3.6 FSI
LOSS THRU 2 1/2" GATE VALVES	1.9 FSI
LOSS THRU 1 1/2" VALVE	2.4 FSI
LOSS THRU LATERAL LINES	.12 FSI
ELEVATION GAIN	-2.11 FSI
MISC. LOSS THRU FITTINGS	3.6 FSI
TOTAL SYSTEM LOSSES	23.11 FSI
PRESSURE REQUIRED AT HEAD	3.0 FSI
REGULATED STATIC PRESSURE	18 FSI
PUMP BOOST	0 FSI
RESIDUAL PRESSURE	24.29 FSI

CONTRACTOR SHALL MAKE POINT OF CONNECTION AT 2" MAINLINE. INSTALL NEW HIGH-FRIGATION-WATER METER AND 2" REDUCED PRESSURE BACKFLOW PREVENTER PER DETAIL 4011 SHT. LID!

EXISTING STATIC WATER PRESSURE _____ 18 FSI
 SYSTEM DESIGN PRESSURE _____ 54 FSI
 PEAK IRRIGATION DEMAND _____ 50 GPM

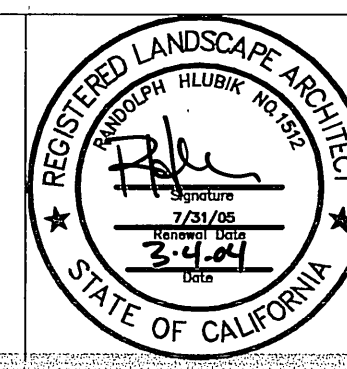
AUTOMATIC IRRIGATION CONTROLLER (CALSENSE / EZ2000, 16 STATION) TO BE INSTALLED IN SEE ENCLOSURE. SEE DETAIL 4010 SHEET LID!

GROUND CONTROLLER WITH 1/2" BY 5 FOOT COPPER ROD.

REFER TO SHEET LI-1 FOR IRRIGATION LEGEND

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TRAFFIC DIVISION		
PARKS DEPARTMENT		
INSPECTION		
SURVEYOR		
STREET SERVICES		

UNIVERSITY AVENUE
 WIDENING
 IRRIGATION PLAN

ACCT. NO. 9577830214-44030202
R-3141-L
LI-4
SHEET 26 OF 31
PC-4373-M/PK2-PRP03-0013
1"=20' 0316

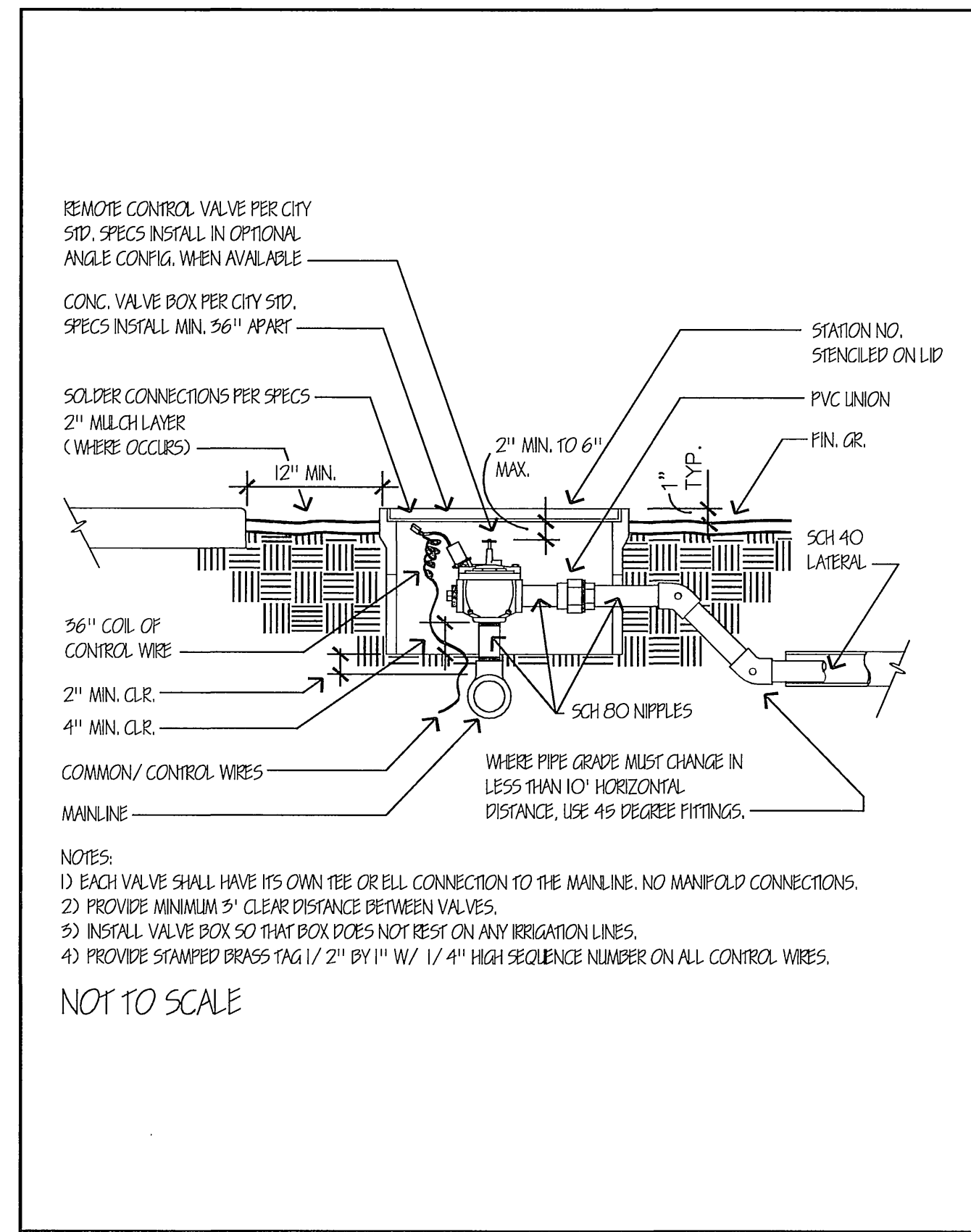
INDEXED 3-29-04 LH

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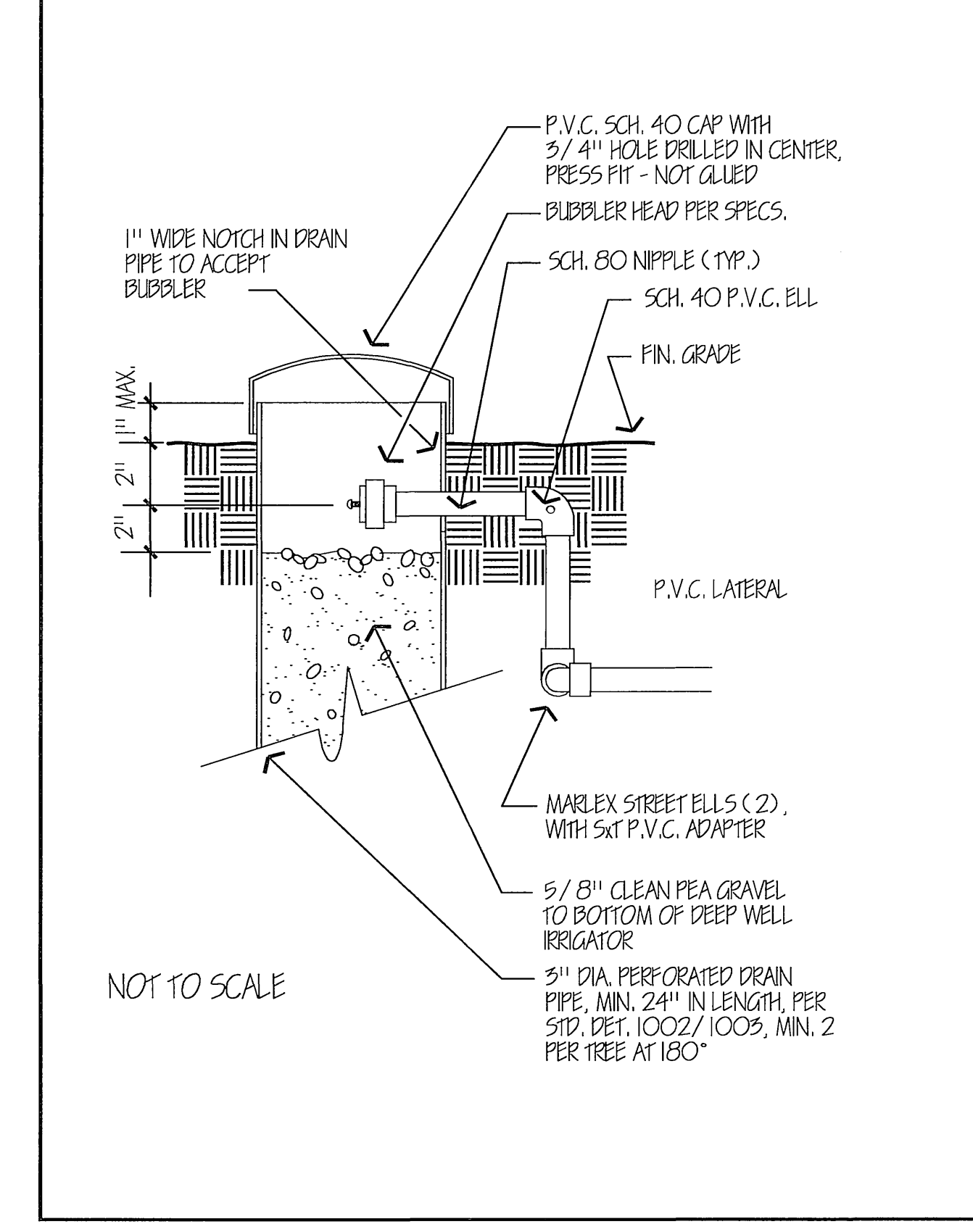
- GENERAL - ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CITY AND COUNTY CODES, AND THESE PLANS.
 - THE CONTRACTOR SHALL CAREFULLY REVIEW THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH ANY WORK UNDER THIS CONTRACT.
 - THE CONTRACTOR SHALL CARRY ALL WORKERS PUBLIC LIABILITY, AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY OWNER.
 - THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY FOR SAME.
- SCOPE OF WORK - UNLESS OTHERWISE SPECIFIED, THE CONSTRUCTION OF IRRIGATION SYSTEMS SHALL INCLUDE THE FURNISHING, INSTALLING AND TESTING OF ALL MAIN LINE, POINT OF CONNECTION, LATERAL LINE, RISERS AND FITTINGS; AND THE FURNISHING AND INSTALLING OF SPRINKLER HEADS, AUTOMATIC CONTROLLERS, CONTROL WIRES (TO VALVES), ELECTRICAL CONTROL VALVES, BACKFLOW PROTECTION, EXCAVATION AND BACKFILL AND ALL OTHER WORK IN ACCORDANCE WITH THESE PLANS, DETAILS AND NOTES.

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, PROPERTY, TRANSPORTATION AND PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE AND OPERABLE IRRIGATION SYSTEM AS INDICATED ON, OR REASONABLY IMPLIED BY THE DRAWINGS AND/OR NOTES, INCLUDED AS A PART OF THE IRRIGATION WORK, BUT NOT LIMITED BY IT, ARE THE FOLLOWING ITEMS:

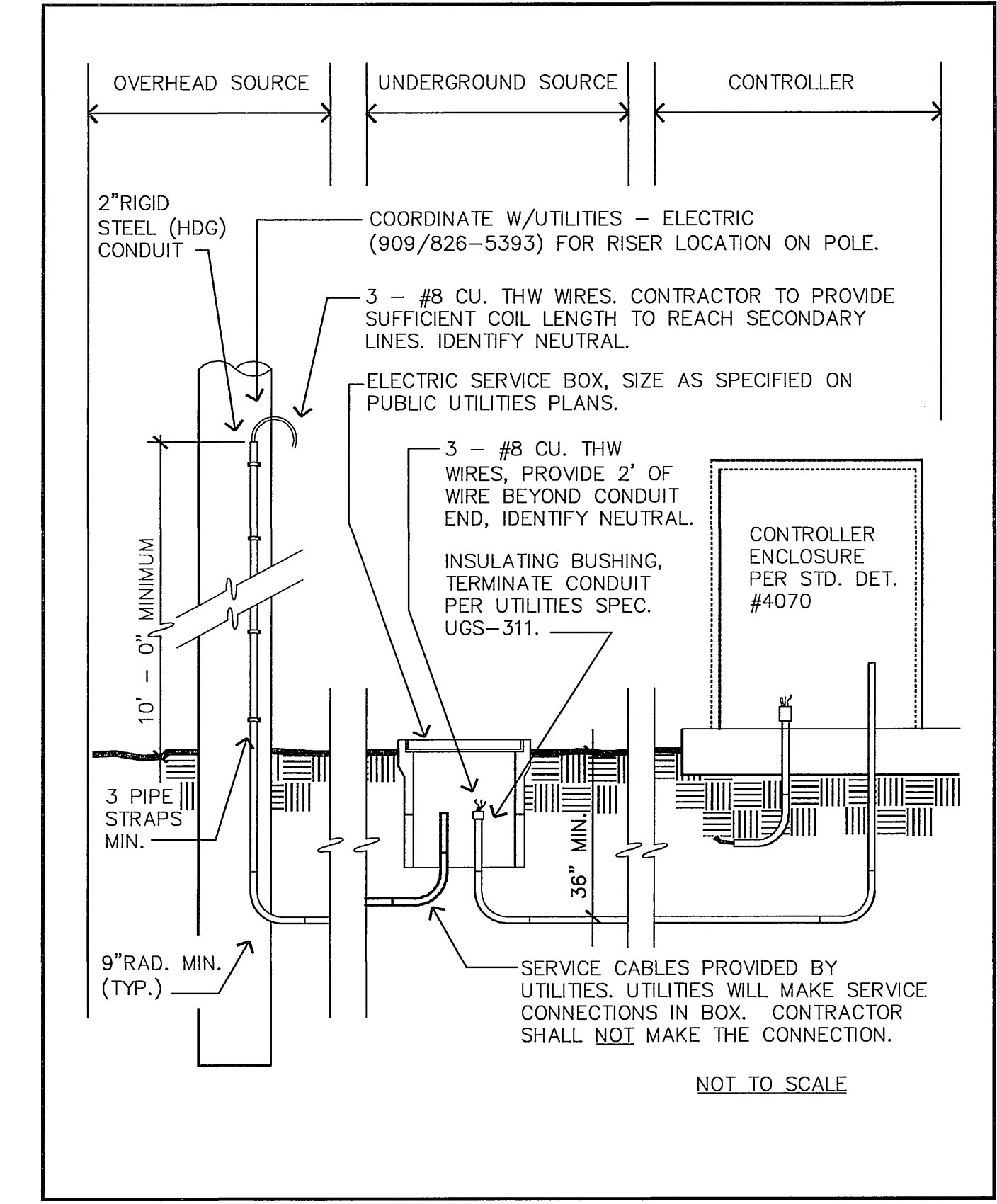
 - INSTALL COMPLETE OPERABLE INDEPENDENT, AUTOMATIC IRRIGATION SYSTEMS PER THE PLANS, DETAILS, LEGEND AND NOTES.
 - ALL IRRIGATION WORK SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIALS AND WORKMANSHIP, INCLUDING SETTLING OF BACKFILLED TRENCHES BELOW GRADE FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK.
- THE LANDSCAPE ARCHITECT SHALL DECIDE ALL QUESTIONS RELATING TO INTERPRETATION OF THE DRAWINGS AND THE ACCEPTABLE FULFILLMENT OF THE CONTRACT.
- PIPING SHOWN ON THE PLANS IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL ROUTE PIPING TO AVOID CONFLICT WITH STATIONARY ELEMENTS AND IN SUCH A MANNER AS TO CONFORM WITH THE VARIOUS DETAILS.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER.
- EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATION AND CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE. UTILITIES PLANS MAY BE OBTAINED FROM OWNER.
- THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS AND RUBBISH INCIDENTAL TO HIS WORK.
- IRRIGATION DESIGN IS BASED ON 10 PSI AVAILABLE WATER PRESSURE AT 50 GPM. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO CONSTRUCTION. SHOULD A DISCREPANCY EXIST, NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL MAKE POINT OF CONNECTION (P.O.C.) PER PLAN AT STUD CUT PROVIDED BY THE SITE'S OPERATIONS MANAGER OR OWNER'S REP. NEAR THE APPROX. WATER METER LOCATION (PROVIDED BY OTHERS).
- IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING 120 VOLT SERVICE TO THE CONTROLLER AT THE ADJACENT ELECTRICAL POWER SOURCE. SET NEW CIRCUIT BREAKER FOR CONTROLLER.
- ALL CONTROL WIRE SHALL BE SOLID COPPER PLASTIC INSULATED, IF DIRECT BURIAL WIRE. ALL COMMON WIRE SHALL BE AWG #2 WHITE; ALL PILOT WIRE SHALL BE AWG #14 RED OR BLACK.
 - ALL CONTROL WIRE AND IRRIGATION LINE RUNS UNDER PAVING SHALL BE ENCASED IN SCH 40 PVC PIPE SLEEVES.
 - FINAL LOCATION OF CONTROL VALVES SHALL BE REVIEWED IN THE FIELD BY THE OWNER'S REPRESENTATIVE.
 - ALL BRASS OR GALVANIZED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE OR LEO-LUBE JOINT COMPOUND (OR EQUAL). ALL PVC THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
 - ALL PVC SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH SOLVENT-WELD MATERIALS AS RECOMMENDED BY THE PIPE MANUFACTURER. SOLVENT-WELD PRIMER SHALL BE APPLIED AT ALL CONNECTIONS.
 - UPON COMPLETION OF THE PROJECT, CONTRACTOR TO TURN OVER TO OWNER:
 - A REPRODUCIBLE SET OF RECORD DRAWINGS AND CONTROLLER AND PLANTING CHART.
 - 2 KEYS FOR EACH CONTROLLER.
 - 2 QUICK COUPLER KEYS AND MATCHING HOSE SUIVELS.
 - 2 OF EACH SPRINKLER HEAD SPECIFIED.
- RECORD DRAWINGS - THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. PRIOR TO FINAL REVIEW, THE CONTRACTOR SHALL TRANSCRIBE ALL INFORMATION FROM THE RECORD SET TO A REPRODUCIBLE COLORED SEPIA, PROCURED FROM THE LANDSCAPE ARCHITECT. ALL WORK SHALL BE NEAT AND LEGIBLE, LOCATING THE FOLLOWING ITEMS FROM PERMANENT POINTS OF REFERENCE:
 - GATE VALVES, MAIN LINE AND CONTROL WIRE ROUTING, P.O.C., BACKFLOW DEVICE, CONTROL VALVES AND CONTROLLER, QUICK COUPLING VALVES, AND OTHER PERTINENT UNDERGROUND ITEMS.
- CONTROLLER CHART - UPON REVIEW OF THE FINAL RECORD DRAWINGS, PROVIDE ONE CHART PER EACH CONTROLLER INSTALLED.
 - THE CHART IS TO BE A REDUCED COPY OF THE REVIEWED RECORD SYSTEM (A BLACK LINE PRINT REDUCED TO THE MAXIMUM SIZE THE CONTROLLER DOOR WILL ALLOW, COLORED WITH A DIFFERENT COLOR FOR EACH VALVE STATION).
 - WHEN COMPLETED AND REVIEWED, THE CHART SHALL BE HERMETICALLY SEALED BETWEEN TWO (2) PIECES OF 20 MIL CLEAR PLASTIC AND MOUNTED ON THE INSIDE OF THE CONTROLLER DOOR USING VELCRO TAPE OR EQUAL.



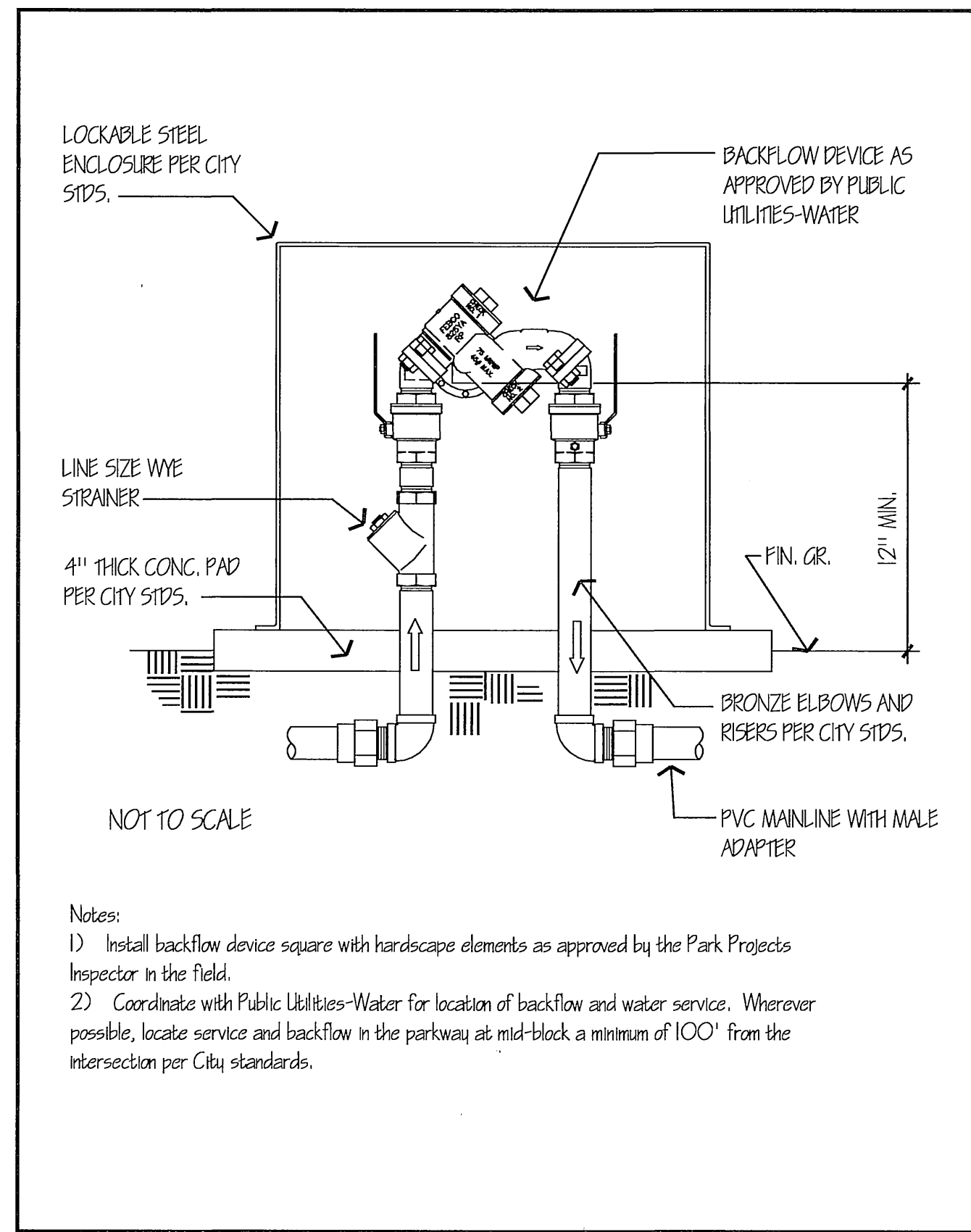
Approved Date 06/21/02
Revised Date
Park and Recreation Department
CITY OF RIVERSIDE
Detail No. 4030
REMOTE CONTROL VALVE



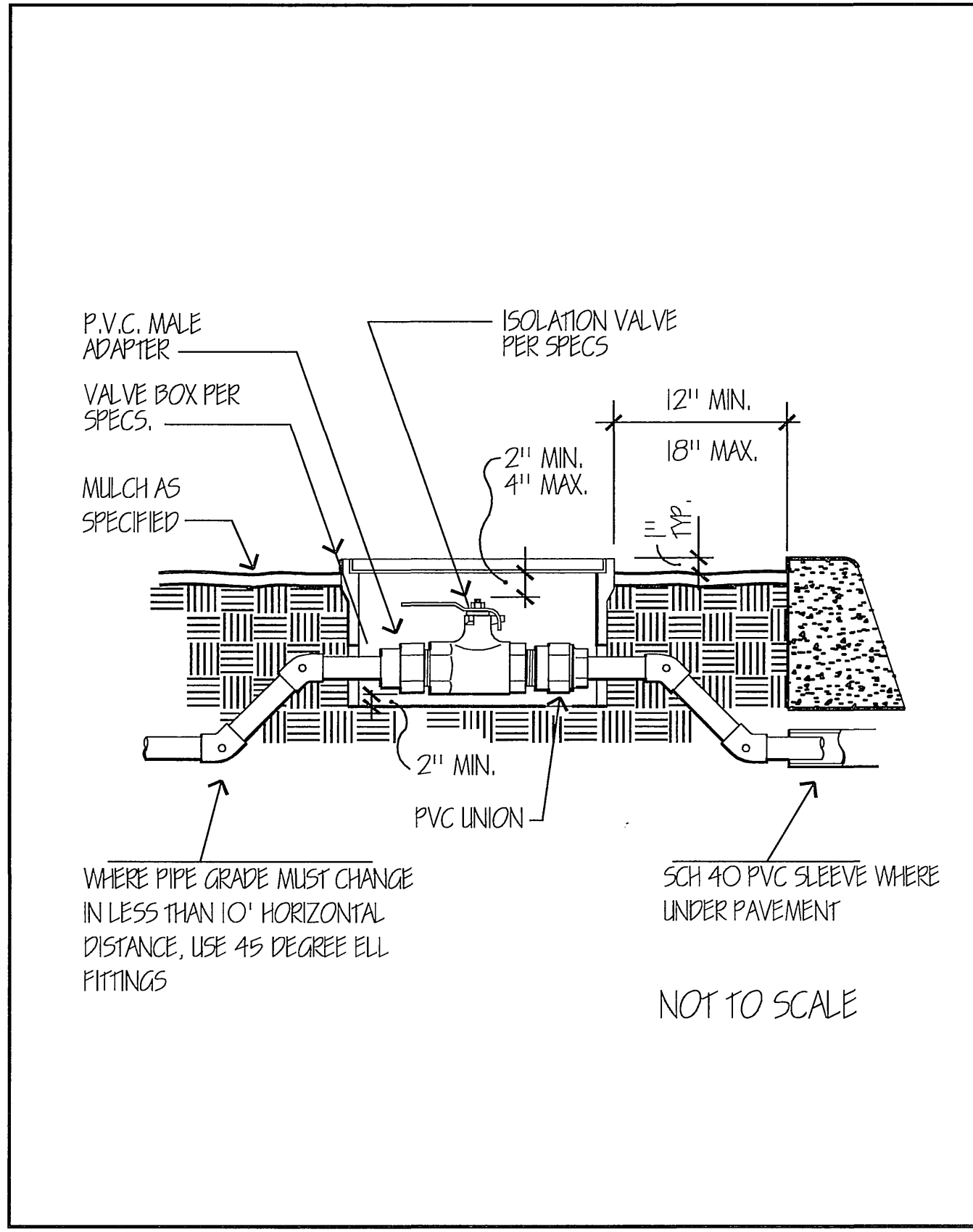
Approved Date 08/22/97
Revised Date
Park and Recreation Department
CITY OF RIVERSIDE
Detail No. 4034
DEEP WELL IRRIGATOR



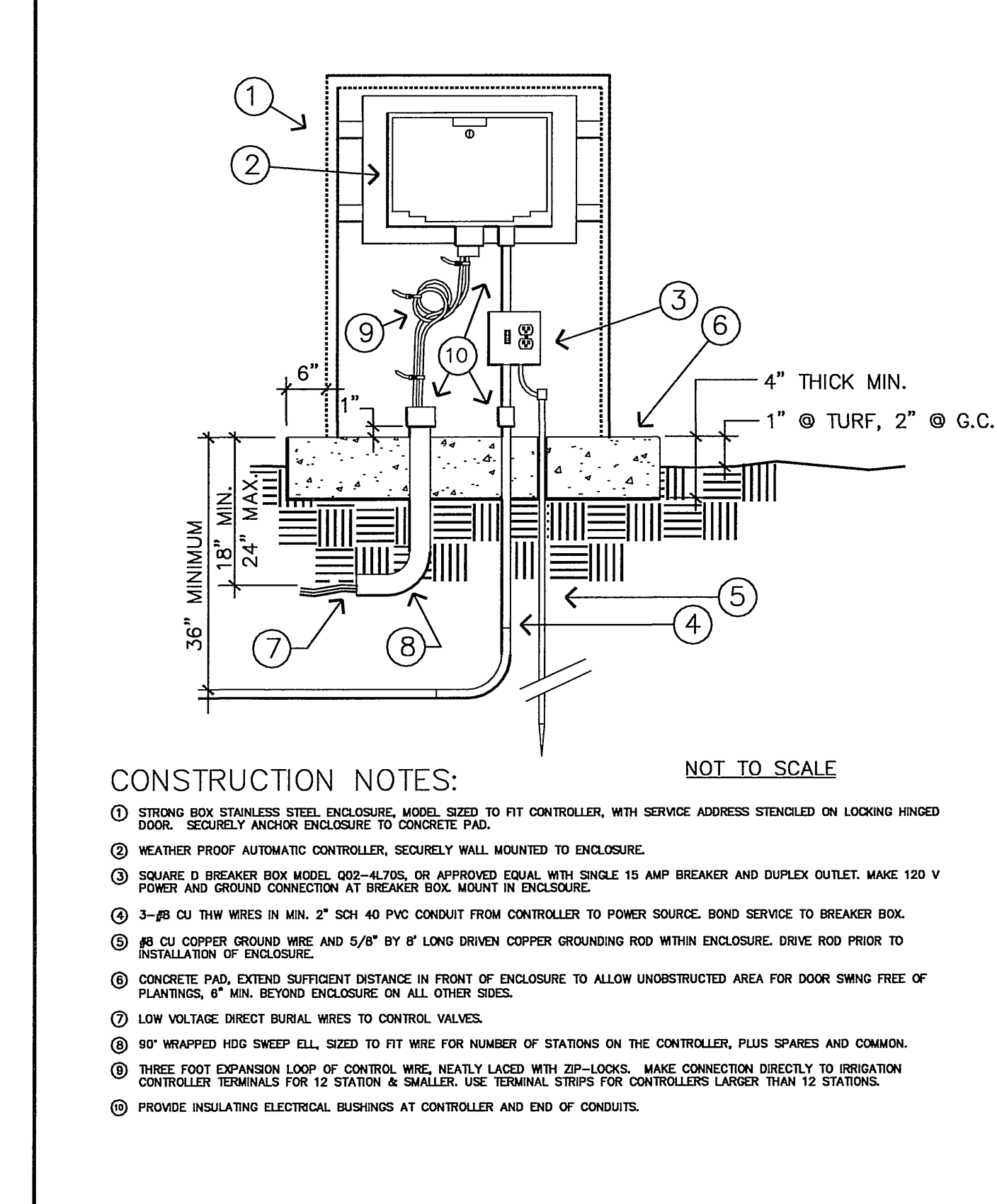
Approved Date 09/01/02
Revised Date 11/21/02
Park and Recreation Department
CITY OF RIVERSIDE
Detail No. 4060
NON-METERED ELECTRIC SERVICE



Approved Date 05/21/02
Revised Date
Park and Recreation Department
CITY OF RIVERSIDE
Detail No. 4011
REDUCED PRESSURE BACKFLOW DEVICE



Approved Date 08/28/05
Revised Date
Park and Recreation Department
CITY OF RIVERSIDE
Detail No. 4052
ISOLATION VALVE IN BOX

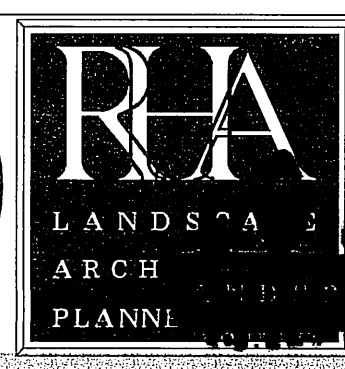
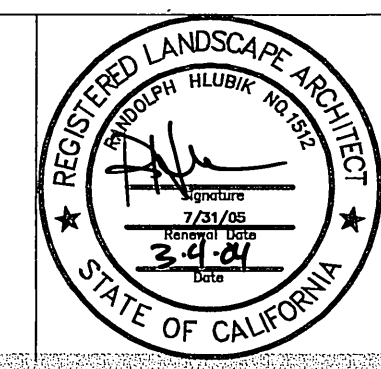


Approved Date 09/01/02
Revised Date 11/21/02
Park and Recreation Department
CITY OF RIVERSIDE
Detail No. 4070
IRRIGATION CONTROLLER

J IRRIGATION NOTES

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

PSOMAS
1700 Iowa Avenue, Suite 160
Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)



3612 MISSION INN AVE
RIVERSIDE, CALIFORNIA
92501
LIC. #1512
PH. (909) 781-1930
FAX (909) 686-8091

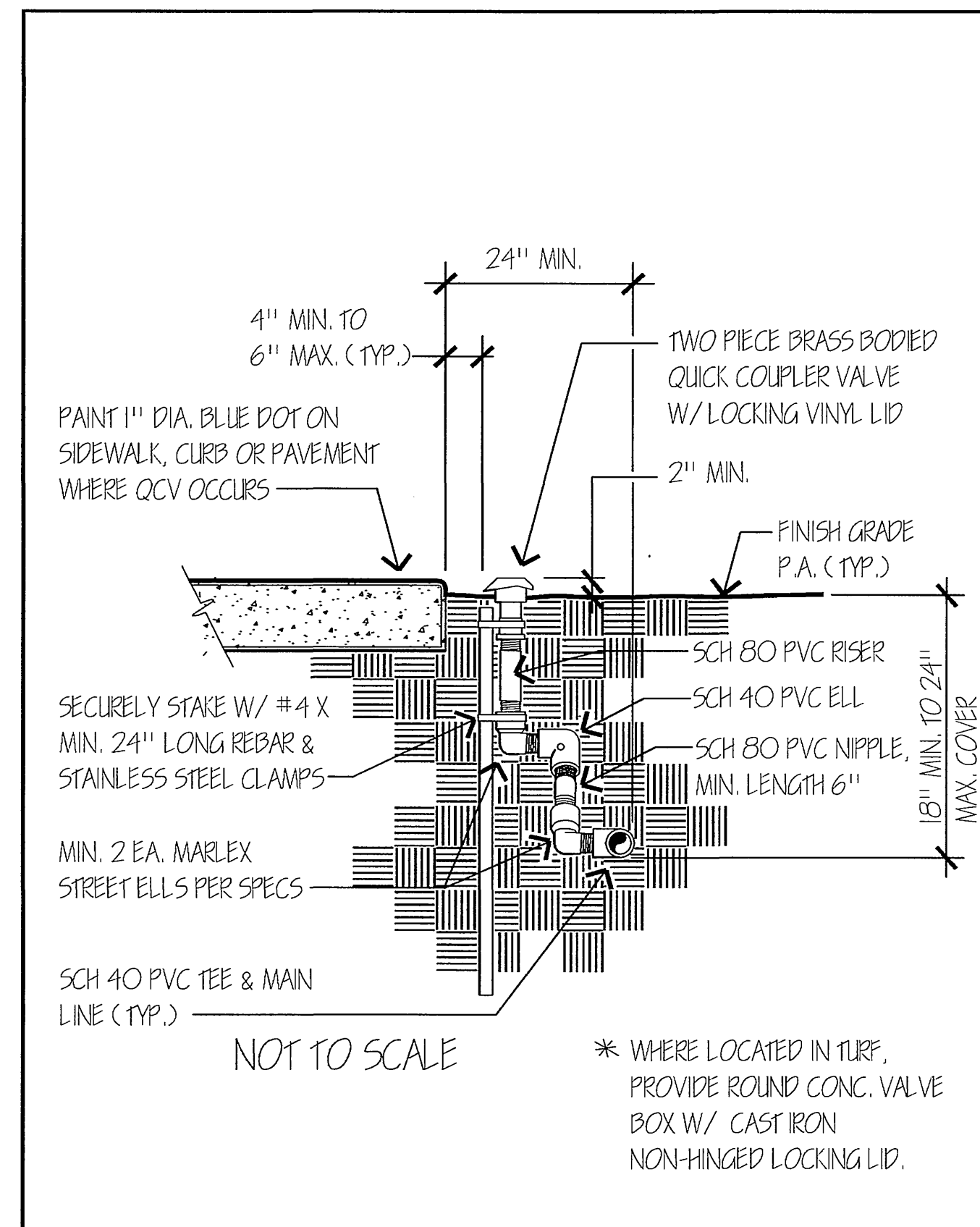
MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature]
DATE: 3/23/04

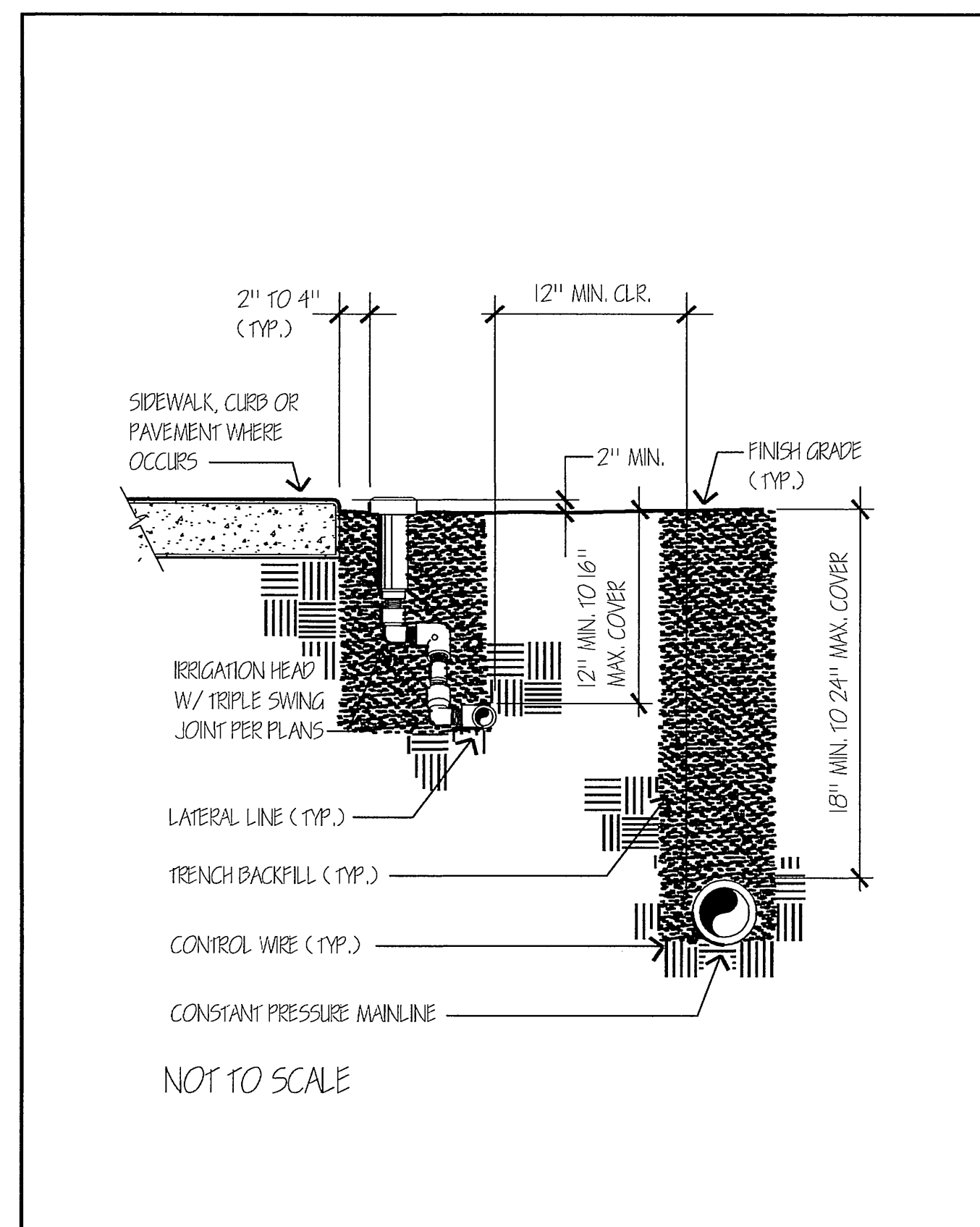
UNIVERSITY AVENUE
WIDENING
IRRIGATION
DETAILS

ACCT. NO. 8577830214-440302XX
R-3147-L
LID-1
SHEET 27 OF 37
PC-4373-M/PK2-PRP03-0013
0316

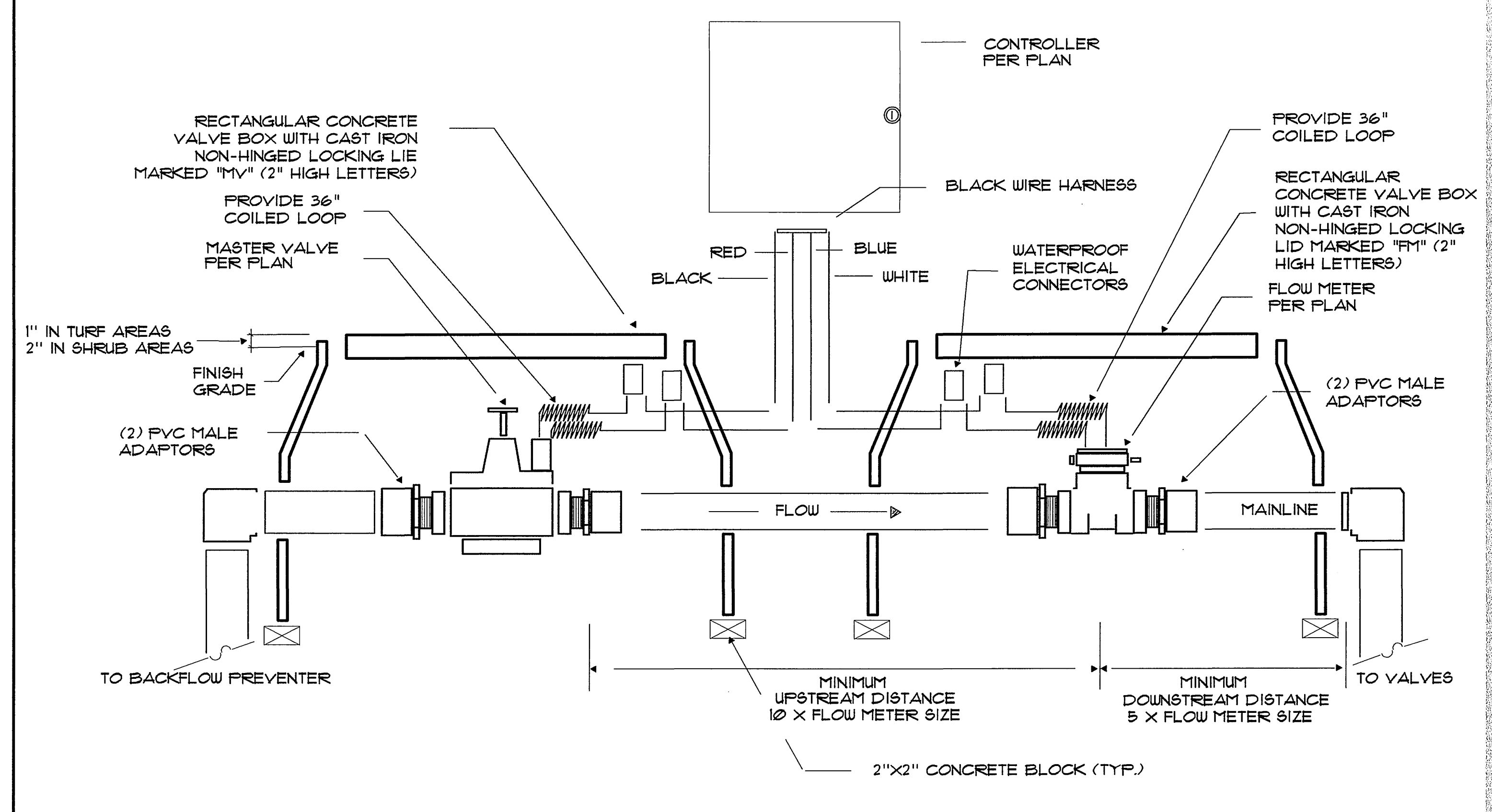
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Mar 03, 2004 - 2:16pm



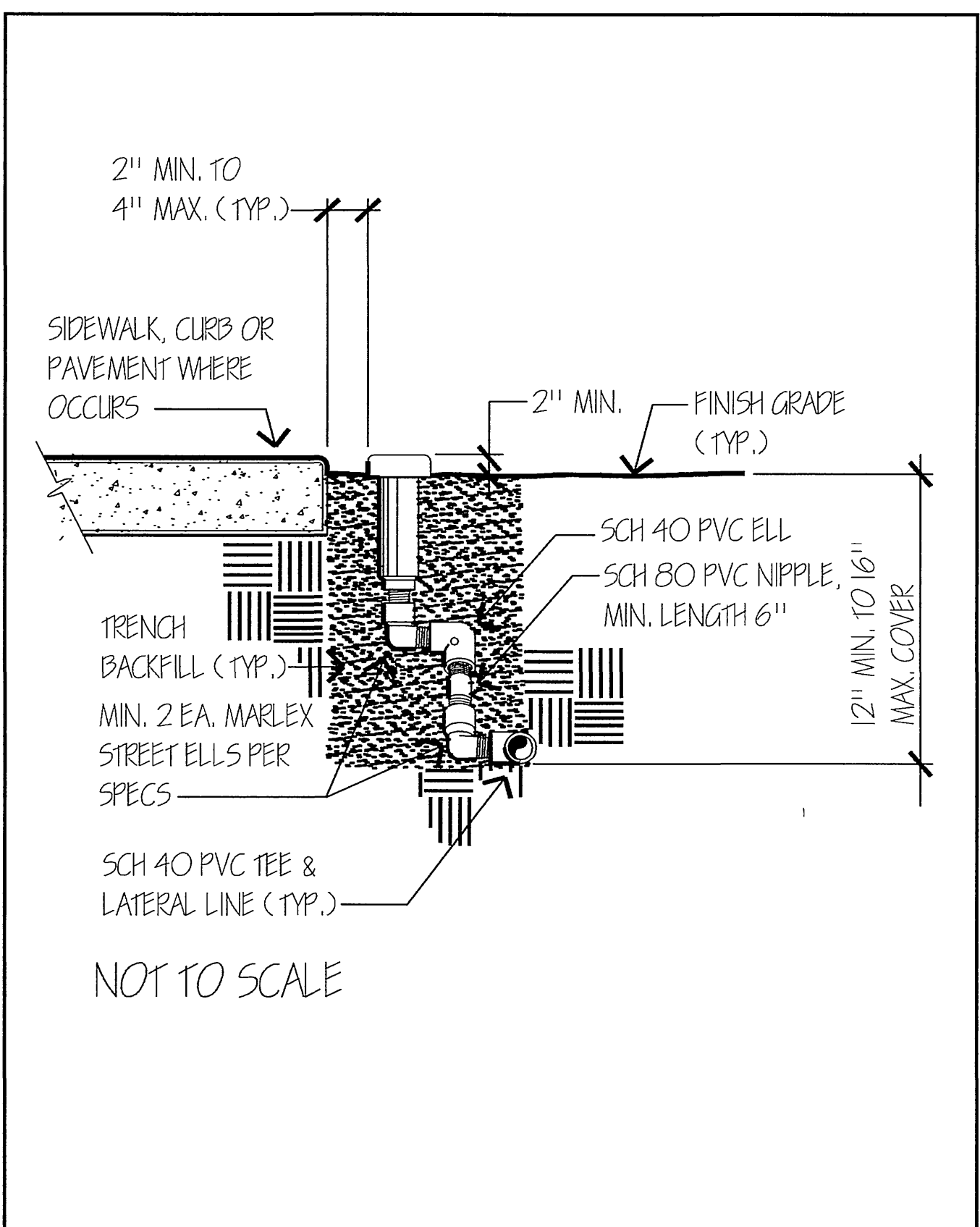
Approved BJ	Date 08/28/03	Park and Recreation Department CITY OF RIVERSIDE	Detail No. 4050
Revised	Date		
		QUICK COUPLER VALVE	



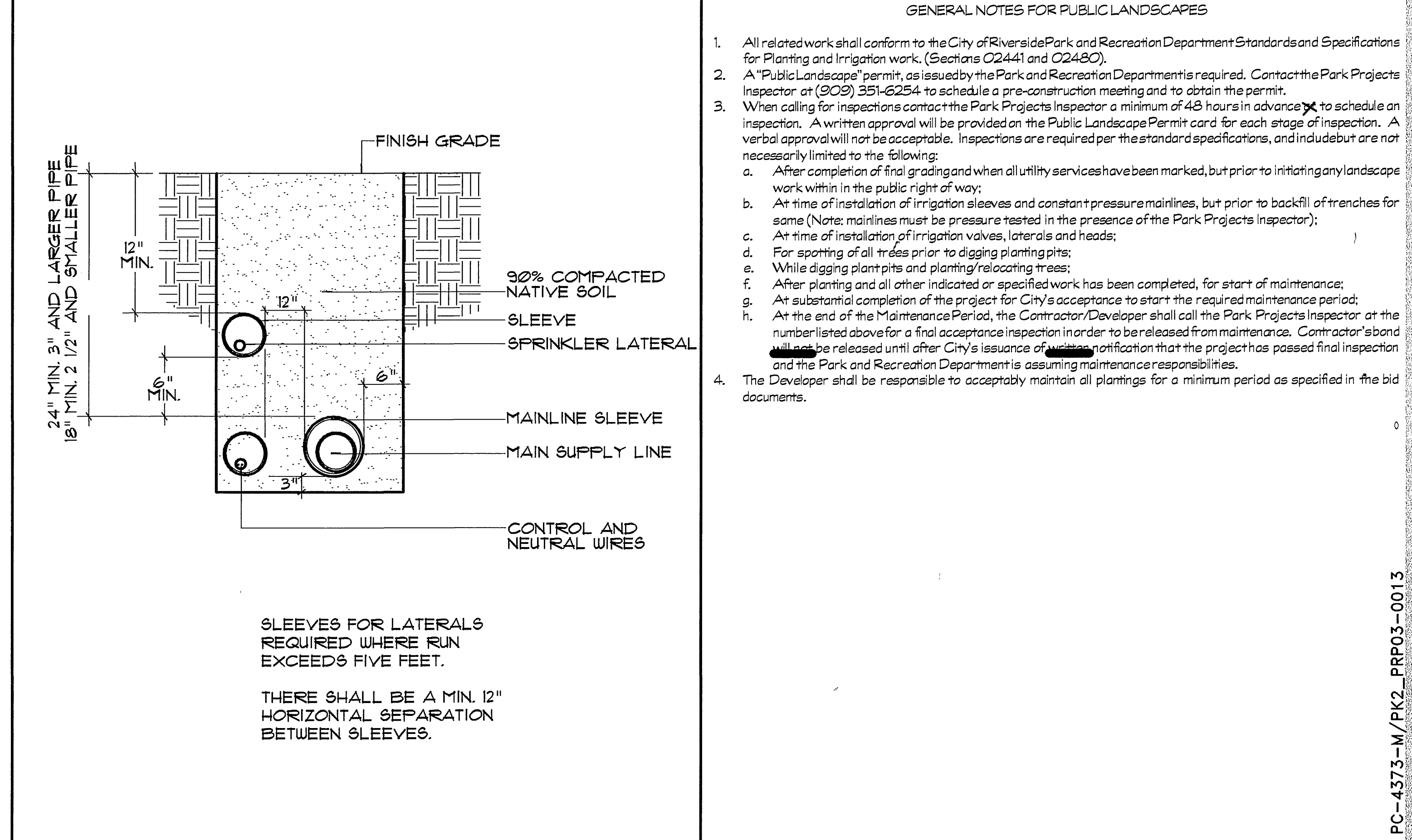
Approved BJ	Date 11/12/02	Park and Recreation Department CITY OF RIVERSIDE	Detail No. 4010
Revised	Date		
		TRENCH AND LINE PLACEMENT	



		B MASTER VALVE / FLOW SENSOR	
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Approved BJ	Date 08/28/03	Park and Recreation Department CITY OF RIVERSIDE	Detail No. 4040
Revised	Date		
		IRRIGATION SPRAY HEAD	



C SLEEVING		A -	
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- GENERAL NOTES FOR PUBLIC LANDSCAPES
- All related work shall conform to the City of Riverside Park and Recreation Department Standards and Specifications for Planting and Irrigation work. (Sections O2441 and O2480).
 - A "Public Landscape" permit, as issued by the Park and Recreation Department is required. Contact the Park Projects Inspector at (909) 351-6254 to schedule a pre-construction meeting and to obtain the permit.
 - When calling for inspections contact the Park Projects Inspector a minimum of 48 hours in advance to schedule an inspection. A written approval will be provided on the Public Landscape Permit card for each stage of inspection. A verbal approval will not be acceptable. Inspections are required per the standard specifications, and include but are not necessarily limited to the following:
 - After completion of final grading and when all utility services have been marked, but prior to initiating any landscape work within the public right of way;
 - At time of installation of irrigation sleeves and constant pressure mainlines, but prior to backfill of trenches for same (Note: mainlines must be pressure tested in the presence of the Park Projects Inspector);
 - At time of installation of irrigation valves, laterals and heads;
 - For spotting of all trees prior to digging planting pits;
 - While digging plant pits and planting/relocating trees;
 - After planting and all other indicated or specified work has been completed, for start of maintenance;
 - At substantial completion of the project for City's acceptance to start the required maintenance period;
 - At the end of the Maintenance Period, the Contractor/Developer shall call the Park Projects Inspector at the number listed above for a final acceptance inspection in order to be released from maintenance. Contractor's bond will not be released until after City's issuance of written notification that the project has passed final inspection and the Park and Recreation Department is assuming maintenance responsibilities.
 - The Developer shall be responsible to acceptably maintain all plantings for a minimum period as specified in the bid documents.

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

PSOMAS
1700 Iowa Avenue, Suite 160
Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)

REGISTERED LANDSCAPE ARCHITECT
STATE OF CALIFORNIA
RIA
LANDSCAPE ARCHITECTS PLANNERS, INC.

3612 MISSION INN AVE
RIVERSIDE, CALIFORNIA 92501
LIC. #1512
PH. (909) 781-1930
FAX (909) 686-8091

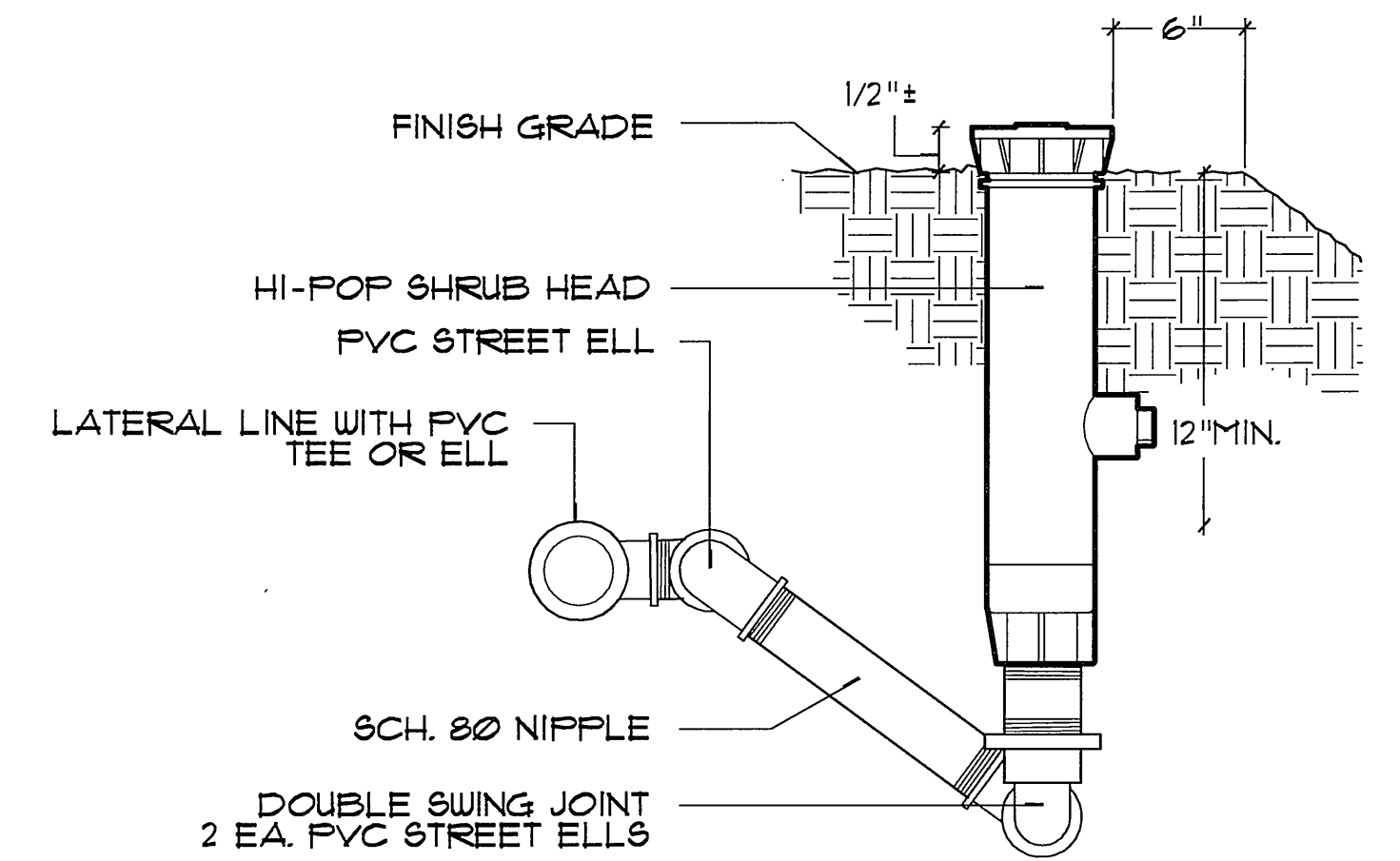
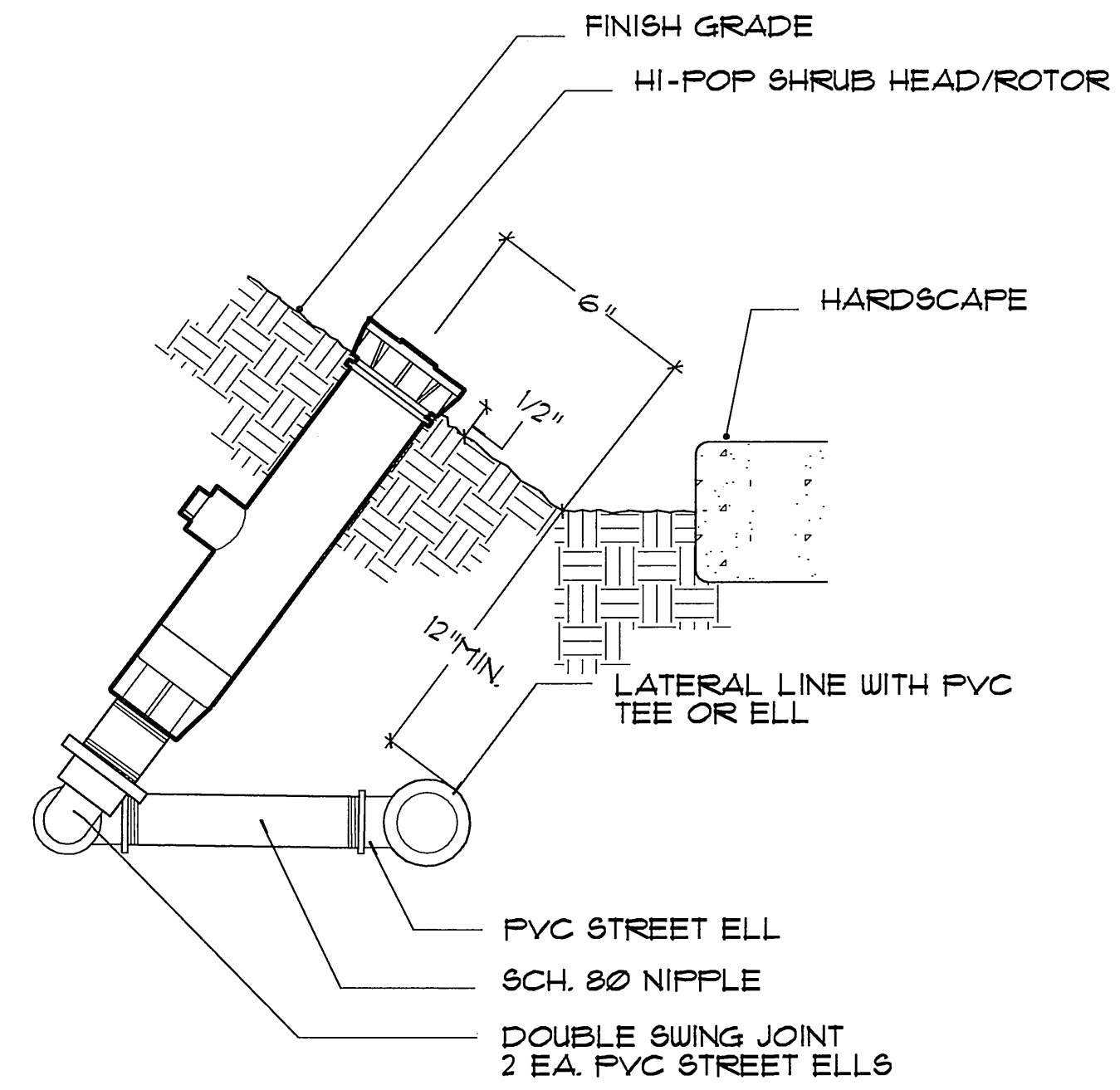
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: *[Signature]*
DATE: 3/23/04

UNIVERSITY AVENUE
WIDENING
IRRIGATION
DETAILS

ACCT. NO. 9577830214-44030202
R-3141-L
LID-2
SHEET 28 OF 37
PC-4373-M/PK2-PRP03-0013
0316

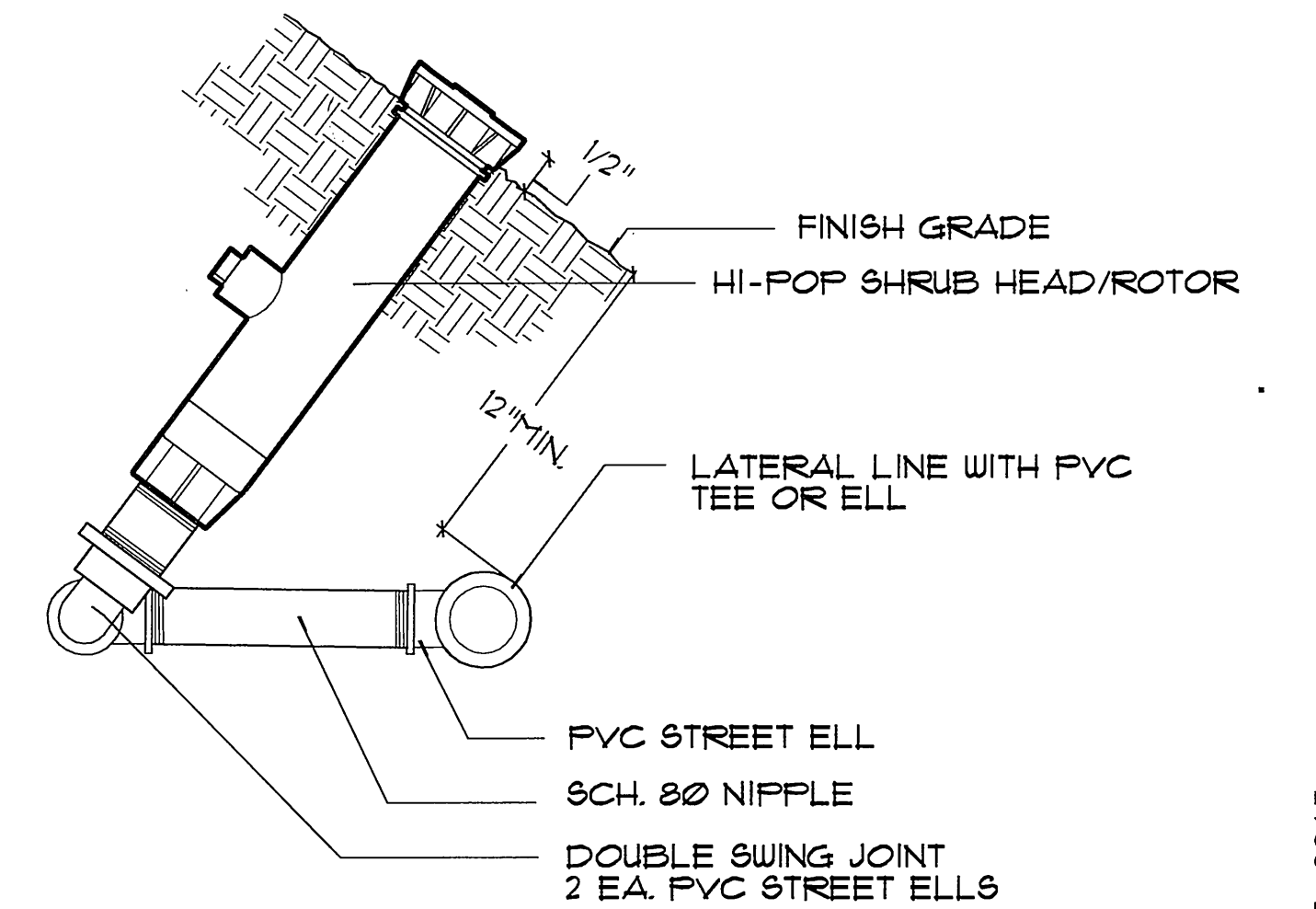
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C SHRUB ROTOR TOE/SLOPE

A SHRUB ROTOR TOP/SLOPE

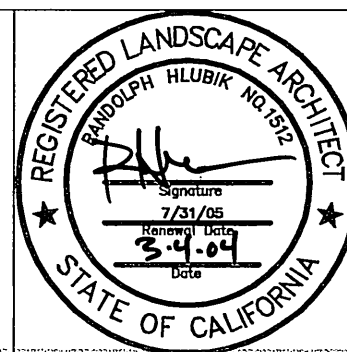


D -

D SHRUB ROTOR MID/SLOPE

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

PSOMAS
1700 Iowa Avenue, Suite 160
Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)



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92501
LIC. #1512
PH. (909) 781-1930
FAX. (909) 686-8091

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY:	BY:	DATE:
	<i>[Signature]</i>	3/23/04

PRINCIPAL ENGINEER
TRAFFIC DIVISION
PARKS DEPARTMENT
INSPECTION
SURVEYOR
STREET SERVICES

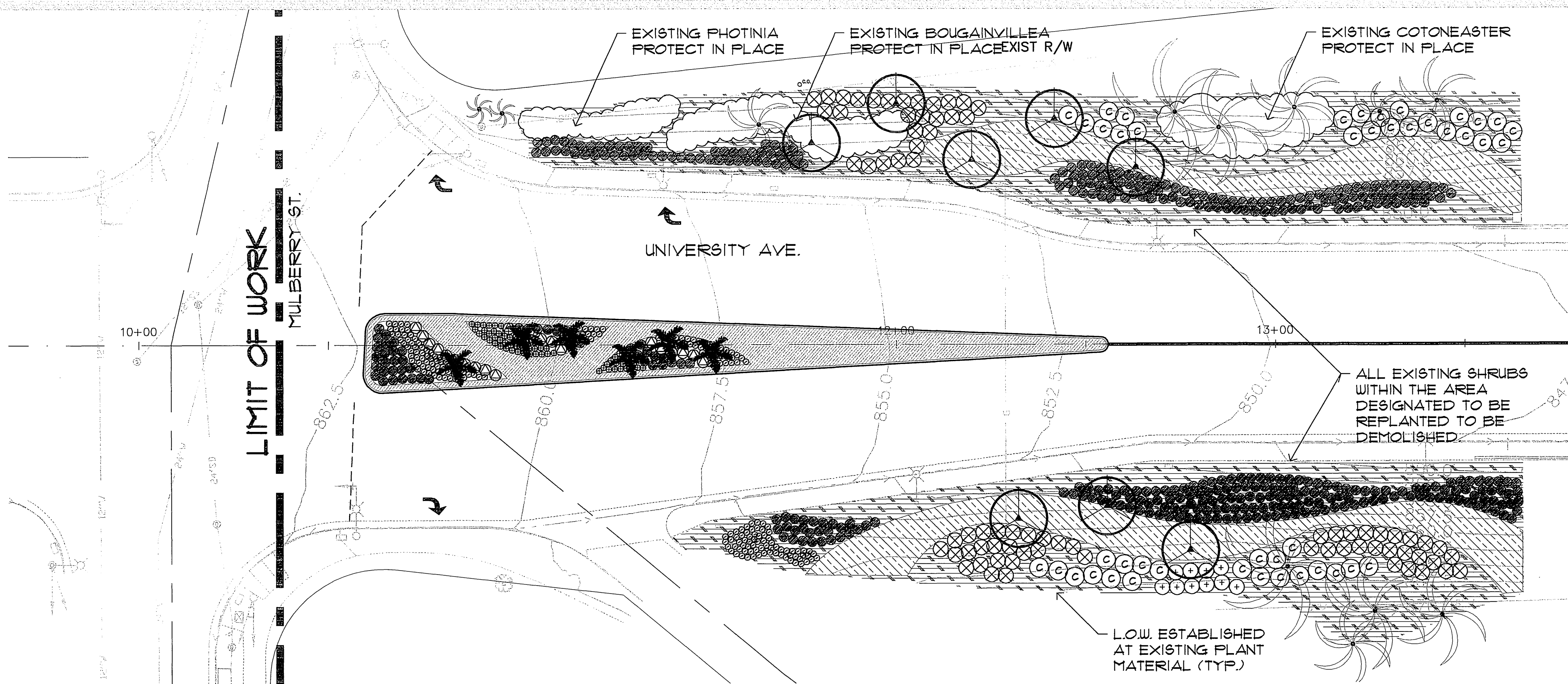
UNIVERSITY AVENUE
WIDENING

IRRIGATION
DETAILS

ACCT. NO. 9577830214-44030202
R-3141-L
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SHEET 29 OF 37
PC-4373-M/PK2-PRP03-0013
03116

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GROUNDCOVER	
	LANTANA x 'MONINE' SPREADING SUNSHINE LANTANA 1 GAL. 3' O.C.
	MYOPORUM PARVIFOLIUM DWARF MYOPORUM 1 GAL. 3' O.C.
	HELIOTRICHON SEMPERVIRENS BLUE OAT GRASS 1 GAL. 3' O.C.
MULCH	
	NOT SHOWN
	NOT SHOWN

NOTE: CONTRACTOR TO PROTECT IN PLACE EXISTING IRRIGATION ON SLOPES BETWEEN STATIONS 10+50 TO 13+10.

PLANT LEGEND

SYMBOL	BOTANICAL NAME COMMON NAME	SIZE	SPACING	REMARKS	REFERENCE
TREES					
	EUCALYPTUS TORQUATA CORAL GUM	15 GAL	REFER TO PLAN	STANDARD 9'-10' x 3'-4'	REFER TO DETAIL 'A' SHEET LPD-1
	KOELREUTERIA BIPINNATA CHINESE FLAME TREE	24" BOX	REFER TO PLAN	STANDARD 9'-10' x 3'-4'	REFER TO DETAIL 'A' SHEET LPD-1
	LAGERSTROEMIA INDICA MUSKOGEE' CRAPE MYRTLE	48" BOX	REFER TO PLAN	MULTI 10'-12' x 7'-8'	REFER TO DETAIL 'A' SHEET LPD-1
	MAYTENUS BOARIA 'GREEN SHOWERS' MAYTEN TREE	36" BOX	REFER TO PLAN	STANDARD 11'-14' x 5'-6'	REFER TO DETAIL 'A' SHEET LPD-1
	EXISTING PALM - PROTECT IN PLACE				
	EXISTING PALM - TO BE RELOCATED OFFSITE. CONTACT DAVE ROGER FROM PARK AND RECREATION DEPT @ (909) 351-6122 FOR LOCATION. (ESTIMATED QUANTITY = 9)			RELOCATE PER PLAN	REFER TO DETAIL 'D' SHEET LPD-1
	EXISTING PALM - RELOCATE ONSITE PER PALM ID NUMBER (ESTIMATED QUANTITY = 21)			RELOCATE PER PLAN	REFER TO DETAIL 'D' SHEET LPD-1
	RELOCATED WASHINGTONIA FILIFERA ONSITE PALM PER PALM ID NUMBER CALIFORNIA FAN PALM				REFER TO DETAIL 'D' SHEET LPD-1
	WASHINGTONIA FILIFERA CALIFORNIA FAN PALM (ESTIMATED QUANTITY = 17)			RELOCATE FROM OFFSITE. CONTACT DAVE ROGER FROM PARK AND RECREATION DEPT @ (909) 351-6122 FOR PROCUREMENT.	REFER TO DETAIL 'D' SHEET LPD-1
	BRAHEA EDULIS GUADALUPE PALM	6'-10' BTH	REFER TO PLAN		REFER TO DETAIL 'D' SHEET LPD-1
ALL TREES LOCATED WITHIN 5' FROM ANY HARDSCAPE FEATURE TO RECEIVE A DEEPROOT 24" PANEL-TYPE ROOT BARRIER. (NO ROUND BARRIERS WILL BE ACCEPTED.) ALL NEW TREES SHALL BE INSTALLED AT 25' O/C SPACING MINIMUM.					
SHRUBS					
	CISTUS SKANBERGII PINK ROCKROSE	5 GAL.	5' O.C.		REFER TO DETAIL 'B' & 'C' SHEET LPD-1
	COTONEASTER MICROPHYLLUS 'ROCKSPRAY' COTONEASTER	5 GAL.	4' O.C.		REFER TO DETAIL 'B' & 'C' SHEET LPD-1
	HEMEROCALLIS HYBRID EVERGREEN DAYLILY (YELLOW)	5 GAL.	18" O.C.		REFER TO DETAIL 'B' & 'C' SHEET LPD-1
	LAVANDULA STOECCHAS 'OTTO QUAST' SPANISH LAVENDER	1 GAL.	18" O.C.		REFER TO DETAIL 'B' & 'C' SHEET LPD-1
	PITTOSPORUM TOBIRA WHEELER'S DWARF	5 GAL.	36" O.C.		REFER TO DETAIL 'B' & 'C' SHEET LPD-1
	ROSA x 'NOALA' CARPET ROSE (CORAL)	1 GAL.	24" O.C.		REFER TO DETAIL 'B' & 'C' SHEET LPD-1
	SALVIA GREGGII 'MOONGLOW' CREAM AUTUMN SAGE	5 GAL.	4' O.C.		REFER TO DETAIL 'B' & 'C' SHEET LPD-1
	SALVIA GREGGII 'SCARLET' SCARLET AUTUMN SAGE	5 GAL.	4' O.C.		REFER TO DETAIL 'B' & 'C' SHEET LPD-1
	TULBAGHIA VIOLACEA SOCIETY GARLIC	1 GAL.	18" O.C.		REFER TO DETAIL 'B' & 'C' SHEET LPD-1
TURF					
	MEDALLION TALL TURF TYPE FESCUE	60D			REFER TO SPECIFICATIONS

MATCHLINE SEE SHEET LP-2

Linear Style Planting with Root Barriers

Determine the correct number of panels to be used. Depending upon the actual planting plan and the number of trees involved the length of linear barrier will vary, but as a general rule of thumb take the anticipated mature canopy diameter of the tree and add 2 feet (61cm). This will be the number of feet necessary for a Linear style planting application. (See chart below.)

A. Choose the barrier that best suits the application. Generally if a sidewalk, patio or driveway is to be protected, 18" (46cm) (LB 18-2) is sufficient depth with 12" (30cm) (LB 12-2) as an alternate choice for non-aggressive, deeper rooting trees. However for curb and gutter protection or more aggressive roots 24" (61cm) (UB 24-2) is generally the better choice.

B. Dig the trench to the depth based upon the particular barrier chosen.

C. Install the barrier. When using Root Linear Barriers simply pull the appropriate number of panels out of the box (they come preassembled) and separate the joinder at the correct length. When installing Root Barriers in a linear fashion you will need to join the appropriate number of panels together.

D. Next place the barrier in the trench with the vertical ribs facing toward the tree and align in a straight fashion. It is helpful to place the barrier against the hardscape. Use the hardscape as a guide and backfill against the barriers to promote a clean smooth fit to the hardscape. Be sure to keep the barrier's double top edge at least 1/2" (13mm) above grade to ensure roots do not grow over the top.

E. Plant the tree(s). The Linear style offers a more expansive rooting growth area, however adverse soil and drainage conditions may exist in the actual planting area. Take steps to ensure healthy growth of the tree at planting. Consult with a local Arborist for planting tips and recommendations.

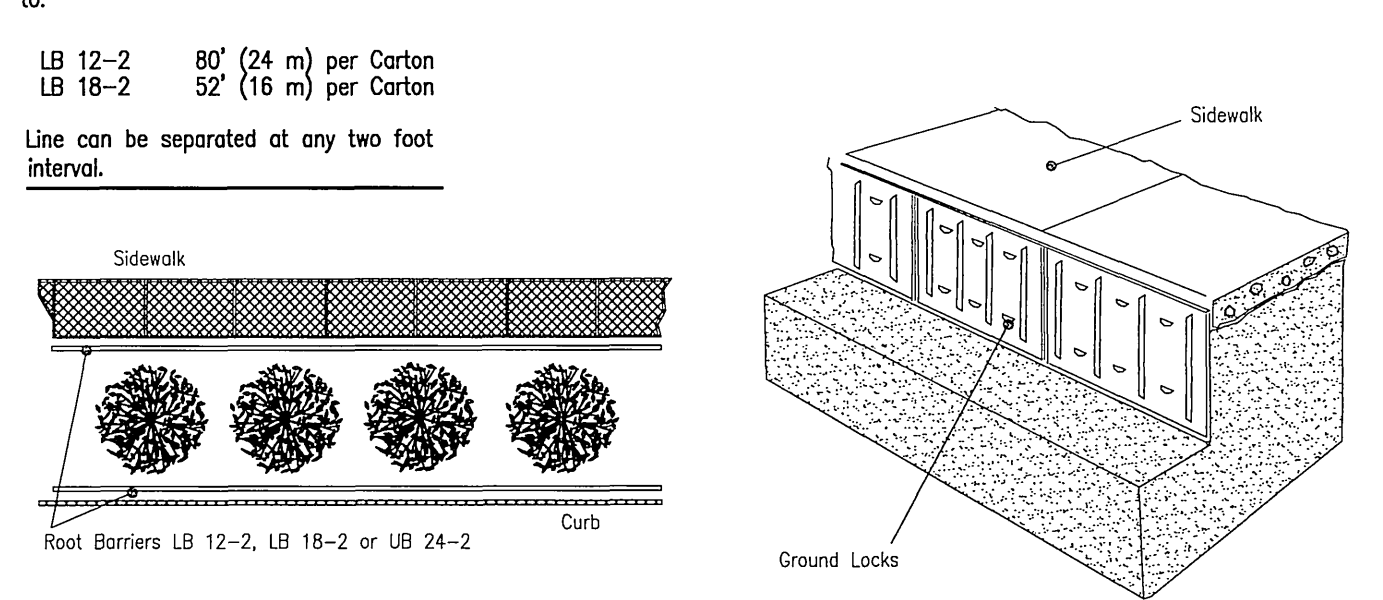
F. If the tree(s) will be subject to maintenance work such as lawn mowing or weed trimming, the Contractor shall install a trunk protector which is placed around the base of young trees to protect them from damage by weed trimmers, lawn mowers and small rodents.

Refer to Mnf. Recommendations for installation.

For a simple formula to determine the quantity of panels required for a Linear application use:
Estimated Diameter of the Tree Canopy at Maturity + 2' (61cm) = Length of Barrier per Side.

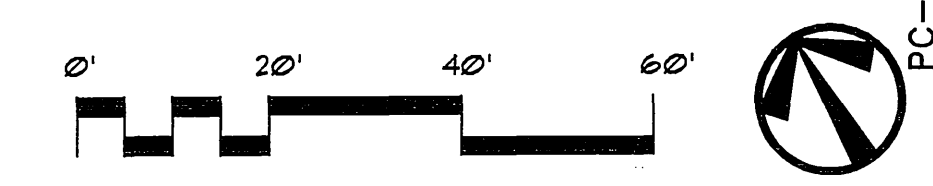
For One Side of Tree Expected Tree Canopy at Maturity	Number of Feet of Linear Barrier (LB 12 or LB 18)	Optional Universal Barrier (UB) in number of Panels
12' (3.6m) Diameter +2' (61cm) = 14' (4.2m)	14' (4.2m)	7 Panels
18' (5.5m) Diameter +2' (61cm) = 20' (6.1m)	20' (6.1m)	10 Panels
24' (7.3m) Diameter +2' (61cm) = 26' (7.9m)	26' (7.9m)	13 Panels

Root Barriers LB 12-2, LB 18-2 or UB 24-2



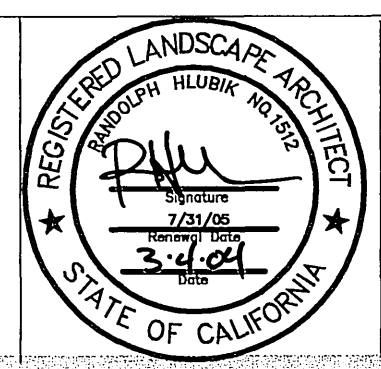
ROOT BARRIER

TO BE 24" DEEP ON ALL SIDES



48 hours BEFORE excavation
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CALL Underground Service Alert

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1700 Iowa Avenue, Suite 160
Riverside, CA 92507
(909) 787-8421 (909) 682-3379 (FAX)



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LANDSCAPE
ARCHITECTS
PLANNERS, INC.

3612 MISSION INN AVE
RIVERSIDE, CALIFORNIA
92501
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PH. (909) 781-1930
FAX. (909) 686-8091

DESIGNED BY	DRAWN BY	CHECKED BY	APPR. DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]*
DATE: 3/23/04

UNIVERSITY AVENUE
WIDENING

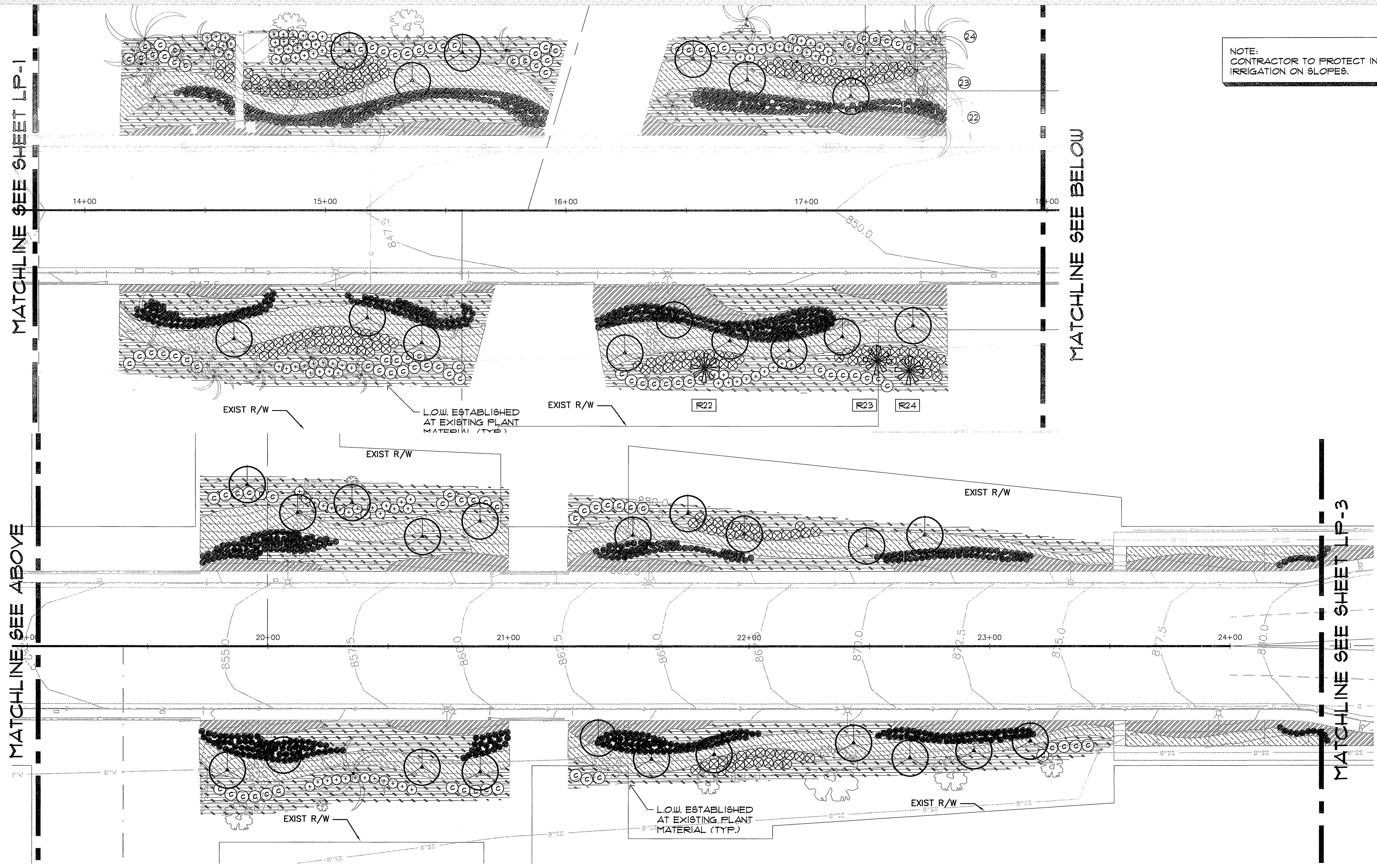
PLANTING
PLAN

ACCT. NO. 9577830214-4403022X
R-3747-L
LP-1
SHEET 30 OF 37
PC-4373-M/PK2-PRP03-0013
1" = 20'
03116

INDEXED 3-29-04 (H)

PC-4373-M/PK2-PRP03-0013
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NOTE:
CONTRACTOR TO PROTECT IN PLACE EXISTING
IRRIGATION ON SLOPES.

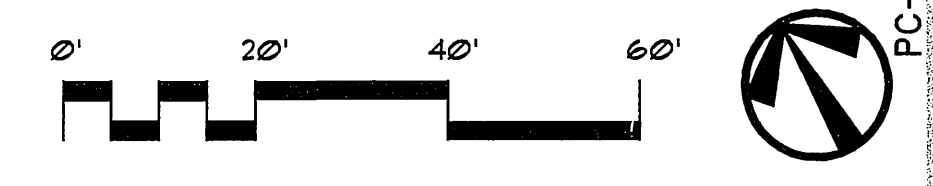


MATCHLINE SEE SHEET LP-1

MATCHLINE SEE BELOW

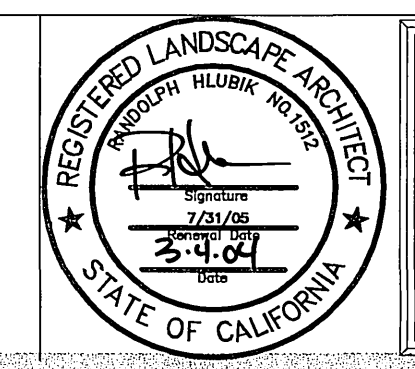
MATCHLINE SEE ABOVE

MATCHLINE SEE SHEET LP-3



48 hours BEFORE excavation
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CALL Underground Service Alert

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Riverside, CA 92507
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PLANNERS, INC.

3612 MISSION INN AVE
RIVERSIDE, CALIFORNIA
92501
LIC. #1512
PH. (909) 781-1930
FAX (909) 686-8091

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY:	BY:	DATE:	APPROVED BY:
PRINCIPAL ENGINEER			
TRAFFIC DIVISION			
PUBLICS DEPARTMENT			
INSPECTION			
SURVEYOR			
STREET SERVICES			

DESIGNED BY: DRAWN BY: CHECKED BY:

UNIVERSITY AVENUE
WIDENING

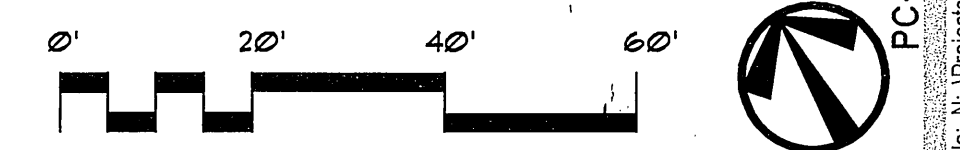
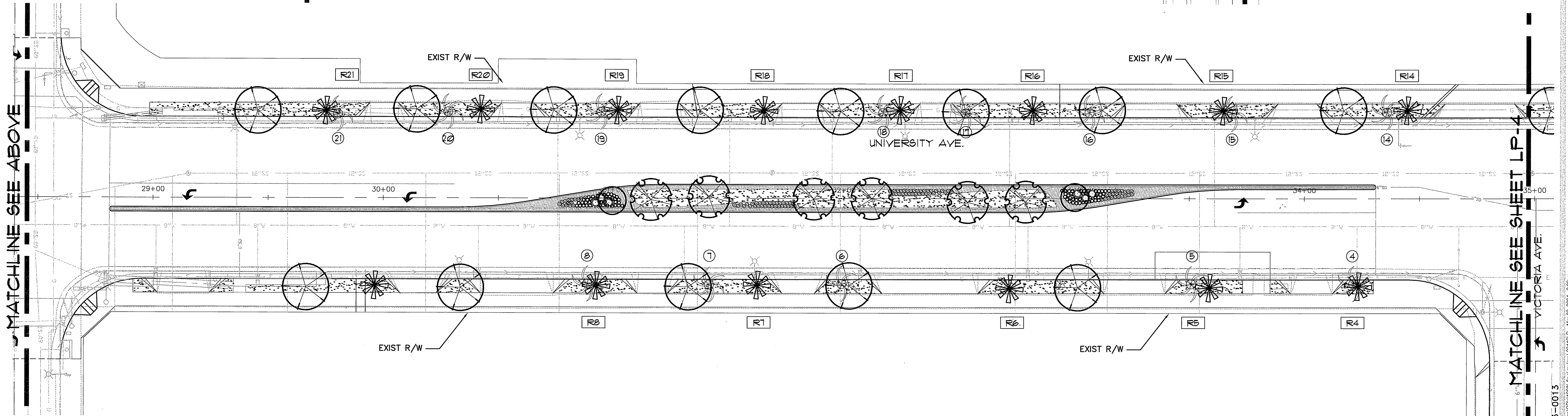
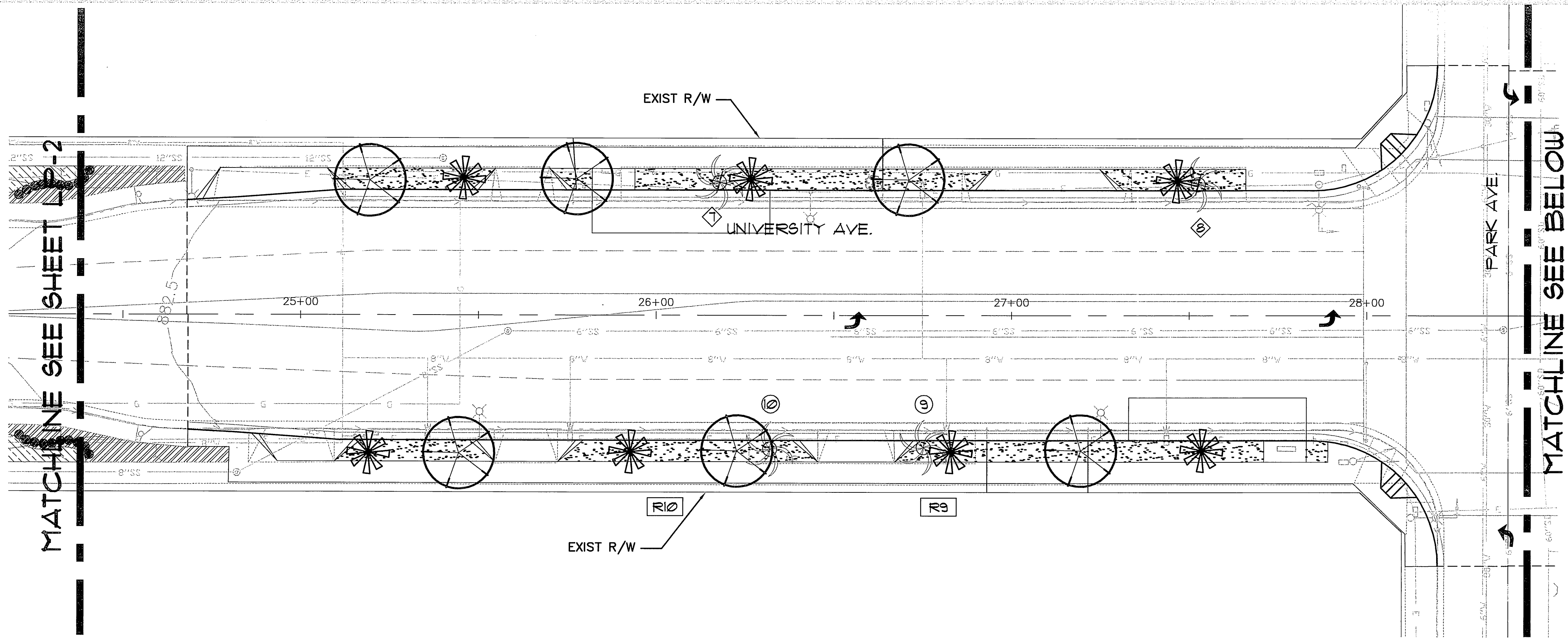
PLANTING
PLAN

ACCT. NO. 9577830214-4403020X
R-3747-L
LP-2
SHEET 31 OF 37
PC-4373-N/PK2_PRR03-0013
1"=20' 03116

INDEXED 3-29-04 GH

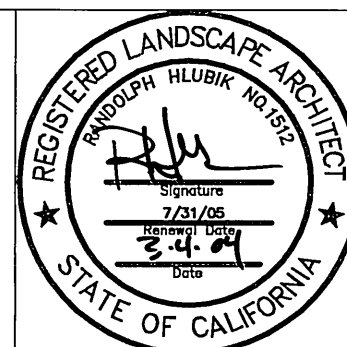
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Mar 03, 2004 - 2:05pm

NOTE:
CONTRACTOR TO PROTECT IN PLACE EXISTING
IRRIGATION ON SLOPES.



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92501
LIC. #1512
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FAX (909) 686-8091

MARK	REVISIONS	APPR.	DATE
DESIGNED BY:	DRAWN BY:	CHECKED BY:	

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY:	BY:	DATE:	APPROVED BY:
PRINCIPAL ENGINEER			
TRAFFIC DIVISION			
PARKS DEPARTMENT			
INSPECTOR			
SURVEYOR			
STREET SERVICES			

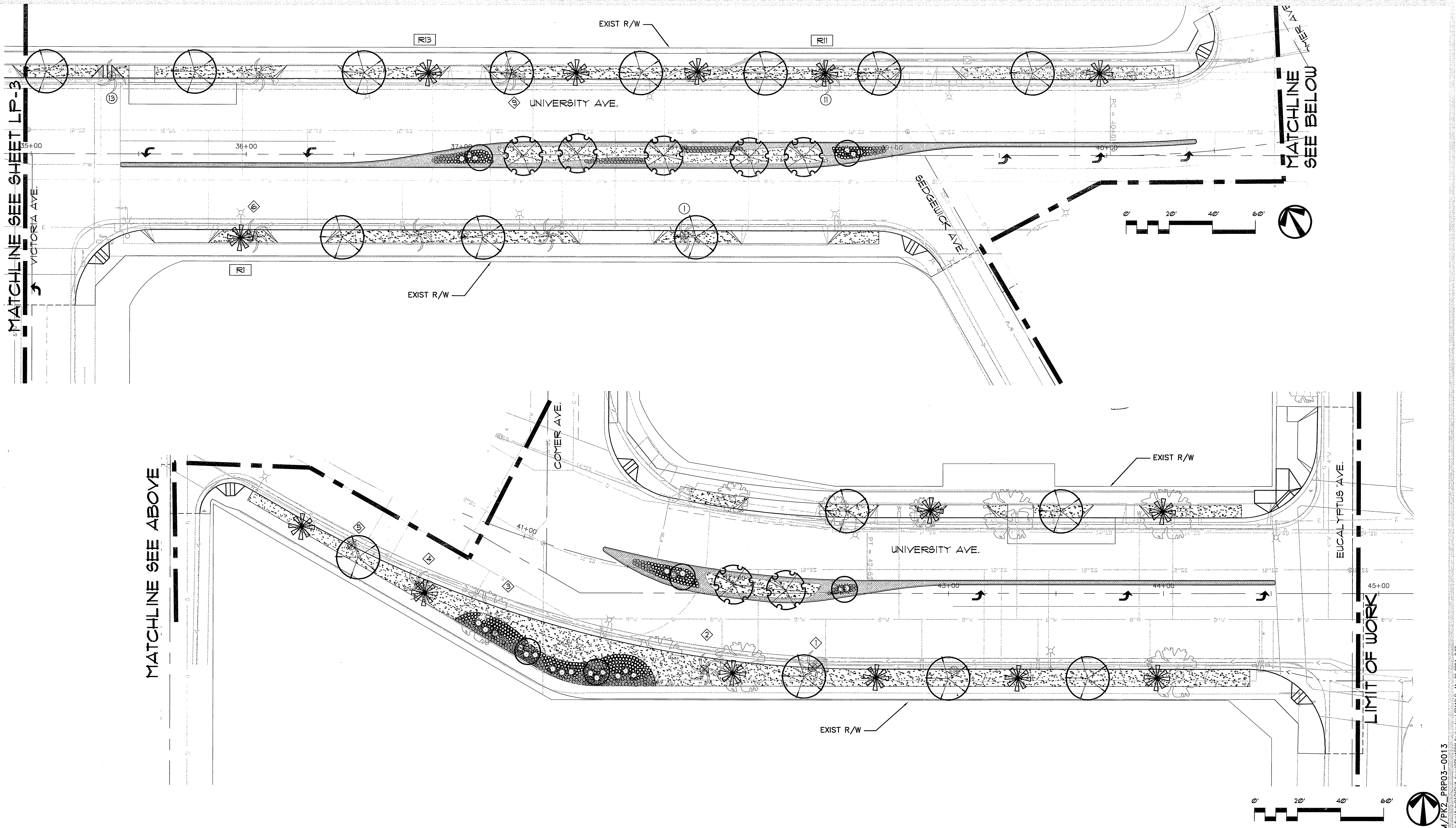
UNIVERSITY AVENUE
WIDENING

PLANTING
PLAN

ACCT. NO. 9577830214-440302XX
R-3747-L
LP-3
SHEET 32 OF 37
PC-4373-M/PK2-PRP03-0013
1"=20' 03116

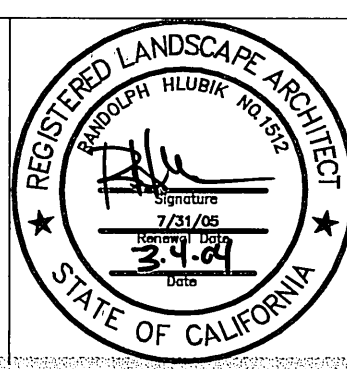
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3612 MISSION INN AVE
 RIVERSIDE, CALIFORNIA 92501
 LIC. #1512
 PH. (909) 781-1930
 FAX (909) 686-8081

MARK	REVISIONS	APPR.	DATE

**CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT**

APPROVED BY:	BY:	DATE:
	<i>Ham Boyd</i>	3/23/04
PRINCIPAL ENGINEER	DATE:	
TRAFFIC DIVISION	3/18/04	
PARKS DEPARTMENT	3/11/04	
INSPECTION	3/11/04	
SURVEYOR	3/11/04	
STREET SERVICES	3/11/04	

**UNIVERSITY AVENUE
 WIDENING**

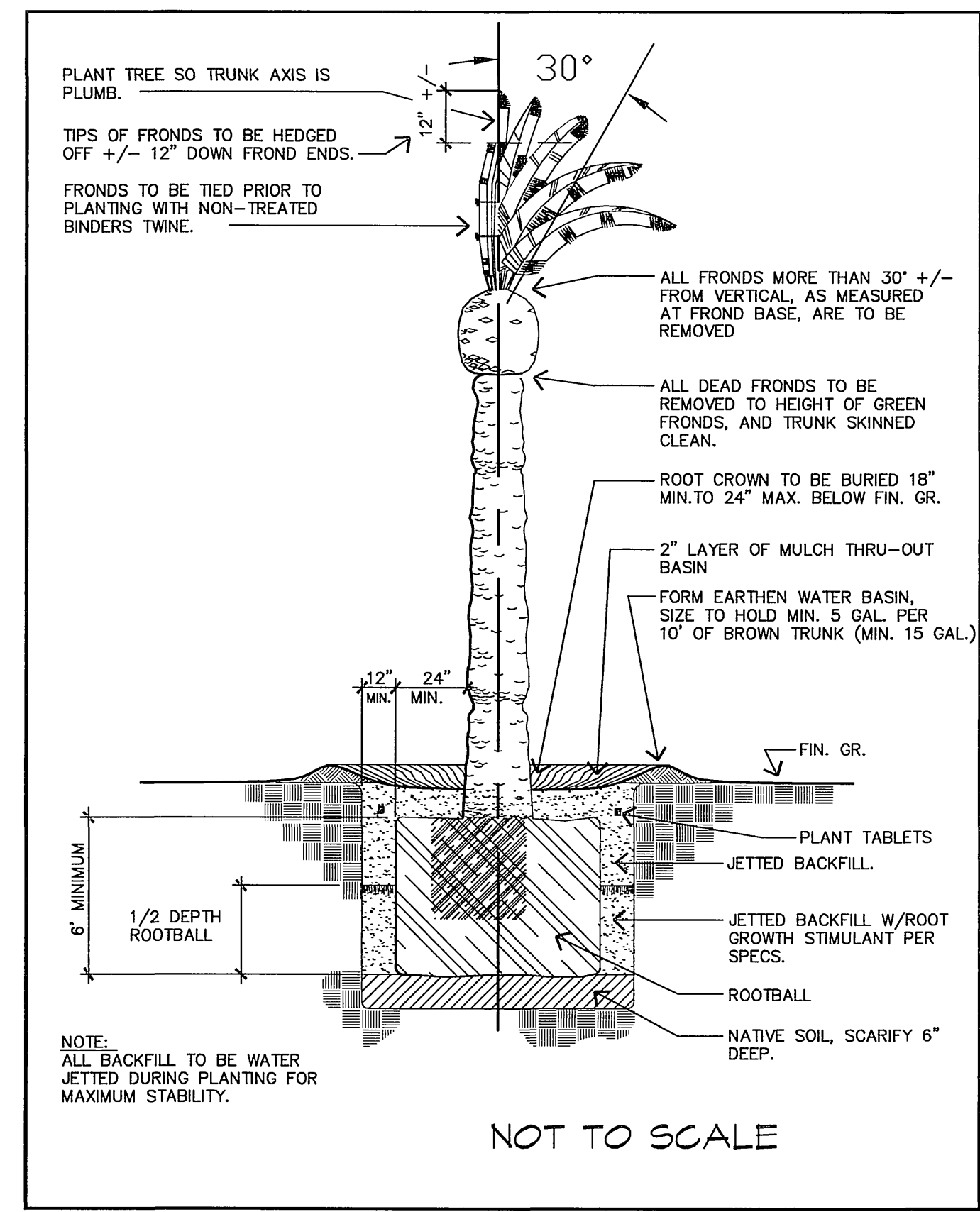
PLANTING PLAN

INDEXED 3-29-04 44

ACCT. NO. 9577830214-4403020X
 R-3747-L
 LP-4
 SHEET 33 OF 37
 PC-4373-M/PK2-PRP03-0013
 1"=20' 03116

PC-4373-M/PK2-PRP03-0013
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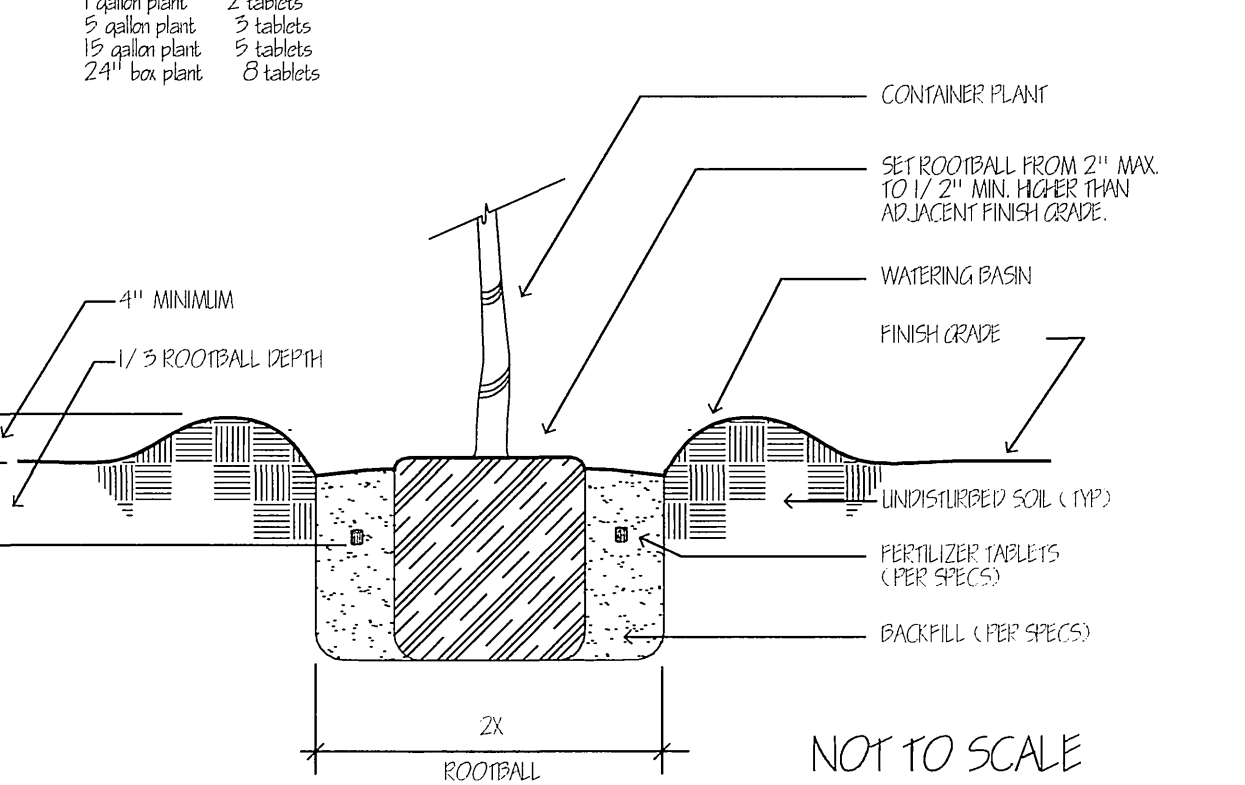
- I. GENERAL - ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CITY AND COUNTY CODES, AND THESE PLANS. THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY FOR SAME.
- A. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE PRIOR TO COMMENCEMENT OF ANY WORK UNDER THIS CONTRACT.
- B. THE CONTRACTOR SHALL CARRY ALL WORKER'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE, AS REQUIRED BY THE CITY.
- C. THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY FOR SAME.
- D. ALL IRRIGATION WORK SHALL HAVE RECOMMENDED APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING ANY GROUND COVER PLANTING WORK.
- E. THE CITY'S PARK PROJECT INSPECTOR AND THE LANDSCAPE ARCHITECT WILL REVIEW THE PLANTING WORK PRIOR TO STARTING WORK. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT AND COORDINATE ALL REVIEWS.
- F. THE QUALITY OF WORKMANSHIP AND MATERIALS SHALL BE OF THE HIGHEST STANDARDS. COOPERATION AND FLEXIBILITY IS EXPECTED OF THE CONTRACTOR TOWARD WORKING WITH THE CITY/LANDSCAPE ARCHITECT IN PRODUCING THE BEST POSSIBLE PRODUCT.
- G. UPON COMPLETION OF EACH PHASE OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE SITE OF ALL ACCUMULATED RUBBISH, DEBRIS, AND OTHER EXTRANEOUS MATERIAL.
2. SCOPE OF WORK - FURNISH ALL MATERIAL, LABOR, TRANSPORTATION, EQUIPMENT AND PROPERTY TO COMPLETE THE LANDSCAPING OF THE PLANTING AREAS SHOWN ON THE DRAWINGS, OR REASONABLY IMPLIED TO COMPLETE THE CONSTRUCTION. INCLUDED AS A PART OF THE WORK, BUT NOT NECESSARILY LIMITED BY IT, ARE THE FOLLOWING ITEMS: FINE GRADING OF ALL PLANTING AREAS, PREPARATION OF ALL PLANTING AND TREE HOLES, FURNISHING AND INSTALLATION OF ALL REQUIRED PLANTING BACKFILL MATERIALS, TREE STAKES AND MISCELLANEOUS MATERIALS, FURNISHING AND INSTALLATION OF ALL PLANT MATERIALS, PROVIDING MAINTENANCE THROUGHOUT THE SPECIFIED PERIOD, CLEAN-UP AND WEEDING OF ALL LANDSCAPE AREAS, GUARANTEE OF ALL PLANT MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR.
3. THE CONTRACTOR SHALL REMOVE ALL WEEDS, ROCKS OVER 2" DIAMETER DEBRIS AND OTHER EXTRANEOUS MATERIAL FROM THE JOB SITE IN A LEGAL MANNER PRIOR TO PROCEEDING WITH ANY WORK UNDER THIS CONTRACT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH GRADE, INCLUDING ANY IMPORT SOIL ADJUSTMENTS TO EARTH BERMS. PROVIDE FINISH GRADE IN PLANTING AREAS 1/8" MINIMUM FLOW. FINISH GRADES SHALL BE 2" BELOW ADJACENT WALKS, CURBS, DRIVEWAYS, ETC. IN GROUND COVER AREAS.
5. ALL TREES AND SHRUBS SHALL BE PLANTED PER THESE NOTES AND AS DETAILED. ALL PLANT MATERIAL SHALL BE OF THE HIGHEST QUALITY AND LARGEST REASONABLE SIZE AVAILABLE FOR THE SPECIFIED CONTAINER SIZE (WITHOUT BEING ROOT BOUND). SHRUB MATERIALS SHALL BE VIGOROUSLY GROWING, HEALTHY PLANT MATERIAL, FULL AND BUSHY, OF HINES WHOLESALE NURSERY/MONROVIA NURSERY COMPANY QUALITY OR EQUAL. THE LANDSCAPE ARCHITECT WILL REVIEW ALL PLANT MATERIAL WHEN SPOTTED FOR PLANTING, AND WILL NOT HESITATE TO REJECT ANY MATERIAL OF QUESTIONABLE QUALITY, OR OF LESS THAN THE LARGEST REASONABLE SIZE MATERIAL AVAILABLE.
6. NO PLANT SUBSTITUTIONS ARE TO BE MADE WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.
7. ALL GROUND COVER AS NOTED IN THE LEGEND SHALL BE ROOTED TIP CUTTINGS FROM FLATS AND SHALL BE PLANTED IN STAGGERED ROWS CONTINUOUSLY UNDER ALL TREES AND SHRUBS IN THE AREAS AS DESIGNATED ON THE PLANS AND AT THE SPACING INDICATED IN THE LEGEND. GROUND COVER SHALL BE INSTALLED NO CLOSER THAN 1/2 THE ON CENTER SPACING AS INDICATED ON PLANS.
8. TO ALL NEW PLANTING AREAS (SHRUB AND GROUND COVER) ROTOTILL THE FOLLOWING AMENDMENTS 4"-6" DEEP AND IRRIGATE THOROUGHLY:
- 200 LBS. OF GRO-POWER/1000 SF.
3 CU. YDS. NITROGEN STABILIZED ORGANIC AMENDMENT/1000 SF.
9. AFTER EARTHWORK, INSTALLATION OF IRRIGATION SYSTEM, AND SOIL PREPARATION, BUT PRIOR TO PLANTING, PERFORM WEED ABATEMENT PROGRAM TO ALL PLANTING AREAS AS FOLLOWS: TO ALL PLANTING AREAS -
- A. APPLY SULFATE OF AMMONIA AT THE RATE OF 5 LBS. PER 1000 SQ. FT. TO ALL AREAS TO BE PLANTED.
- B. KEEP AREA MOIST BY REGULAR IRRIGATIONS FOR A PERIOD OF TWO (2) WEEKS TO GERMINATE EXISTING WEED SEEDS.
- C. AT THE END OF TWO WEEKS, APPLY "ROUND-UP" OR EQUAL SYSTEMIC HERBICIDE. DO NOT IRRIGATE WITH-IN SIX (6) HOURS AFTER APPLICATION. HERBICIDE SHALL BE APPLIED BY AN INDIVIDUAL WITH THE PROPER LICENSE. REFER TO MFG. SPECIFICATIONS FOR PERIOD OF TIME REQUIRED FROM TIME OF APPLICATION TO TIME IMPLEMENTING PLANTING. AFTER COMPLETE WEED KILL, REMOVE ALL WEED RESIDUE AND TOP GROWTH AND DISPOSE OF IN A LEGAL MANNER. NOTE: ALTERNATE METHODS OF WEED KILL FOR ITEM 'C' MAY BE VAPAM OR METHYL BROMIDE APPLIED PER LICENSED HERBICIDE AGENCY AND SPECIFICATIONS.
- D. REPEAT STEPS A, B & C.
10. BACKFILL MIX FOR TREES AND SHRUBS SHALL BE AS FOLLOWS:
- 6 PARTS BY VOLUME NATIVE ON-SITE SOIL
 - 4 PARTS BY VOLUME NITROGENIZED FIR SHAVINGS
 - 10 LBS. OF GRO-POWER PER CU. YD. OF MIX
 - GRO-POWER PLANTING TABLETS FOR EXTENDED FEEDING/SOIL CONDITIONING.
- SEE TREE AND SHRUB PLANTING DETAILS FOR PLACEMENT AND QUANTITIES.
- THE ABOVE SHOULD BE THOROUGHLY BLENDED PRIOR TO USE FOR BACKFILL PURPOSES. THE IRON SULFATE SHOULD NOT CONTACT CEMENT SURFACES SINCE SEVERE STAINING COULD OCCUR.
11. MAINTENANCE PERIOD - THE MAINTENANCE PERIOD SHALL COMMENCE UPON THE CITY'S AND THE LANDSCAPE ARCHITECT'S WRITTEN RECOMMENDED APPROVAL OF ALL PHASES OF PLANTING INSTALLATION AND SHALL BE FOR NINETY (90) CONTINUOUS CALENDAR DAYS.
12. MAINTENANCE PROCEDURES - THE GENERAL CARE AND MAINTENANCE OF ALL AREAS SHALL CONSIST OF PROPER WATERING, FERTILIZATION, WEEDING, CLEAN-UP, AND AS FOLLOWS:
- A. CULTIVATE AND WEED AT LESS THAN TEN (10) WORKING DAY INTERVALS.
- B. APPROXIMATELY 30 DAYS AFTER INITIAL PLANTING, APPLY 25 LBS. OF GRO-POWER PER 1000 SQ. FT. AND IRRIGATE THOROUGHLY. THE SECOND APPLICATION USING THE ABOVE PRODUCT AT THE SAME RATE SHALL BE APPLIED IN ANOTHER 60 DAYS OR JUST BEFORE THE MAINTENANCE PERIOD ENDS.
- C. CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEMS IN A LIKE NEW, OPERATING CONDITION, ADJUSTING HEAD HEIGHTS, THROW AND SPRAY ARCS AS NECESSARY. THE CONTRACTOR IS RESPONSIBLE FOR PROPER WATERING OF ALL PLANTING AREAS, AND SHALL REPLACE ANY MATERIAL DAMAGED DUE TO IMPROPER MOISTURE.



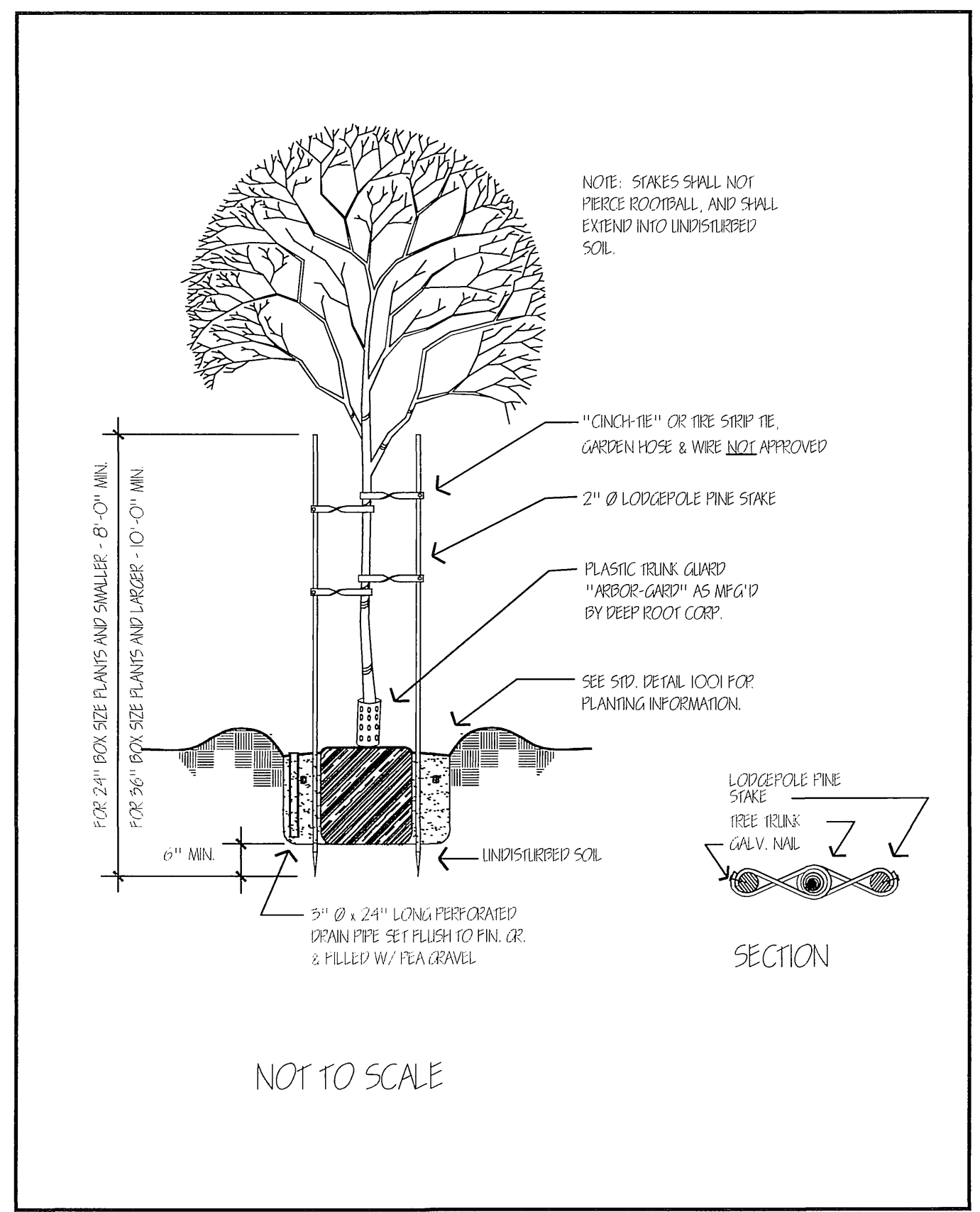
Approved Terry Nielsen, Dir.	Date 03/28/97	Park and Recreation Department CITY OF RIVERSIDE	Detail No. 2484
Revised	Date	PALM TREE RELOCATION	

GENERAL PLANTING NOTES

- Contact the Park Projects Inspector at 391-6254 two working days (48 hours) prior to installing any plant material.
- Trees planted in turf areas shall be maintained with a minimum 12" radius around the tree free of turf throughout the maintenance period.
- Watering basins may be removed after the maintenance period.
- For staking information as applicable, refer to Standard Detail 1002.
- For spacing information as applicable, refer to Standard Detail 1003.
- For specification information, refer to City of Riverside Park and Recreation Department Standard Specifications, Section 02480 Planting.
- Provide Fertilizer Tablets as follows:



Approved BJ	Date 08/28/05	Park and Recreation Department CITY OF RIVERSIDE	Detail No. 1001
Revised	Date	PLANTING DETAIL	

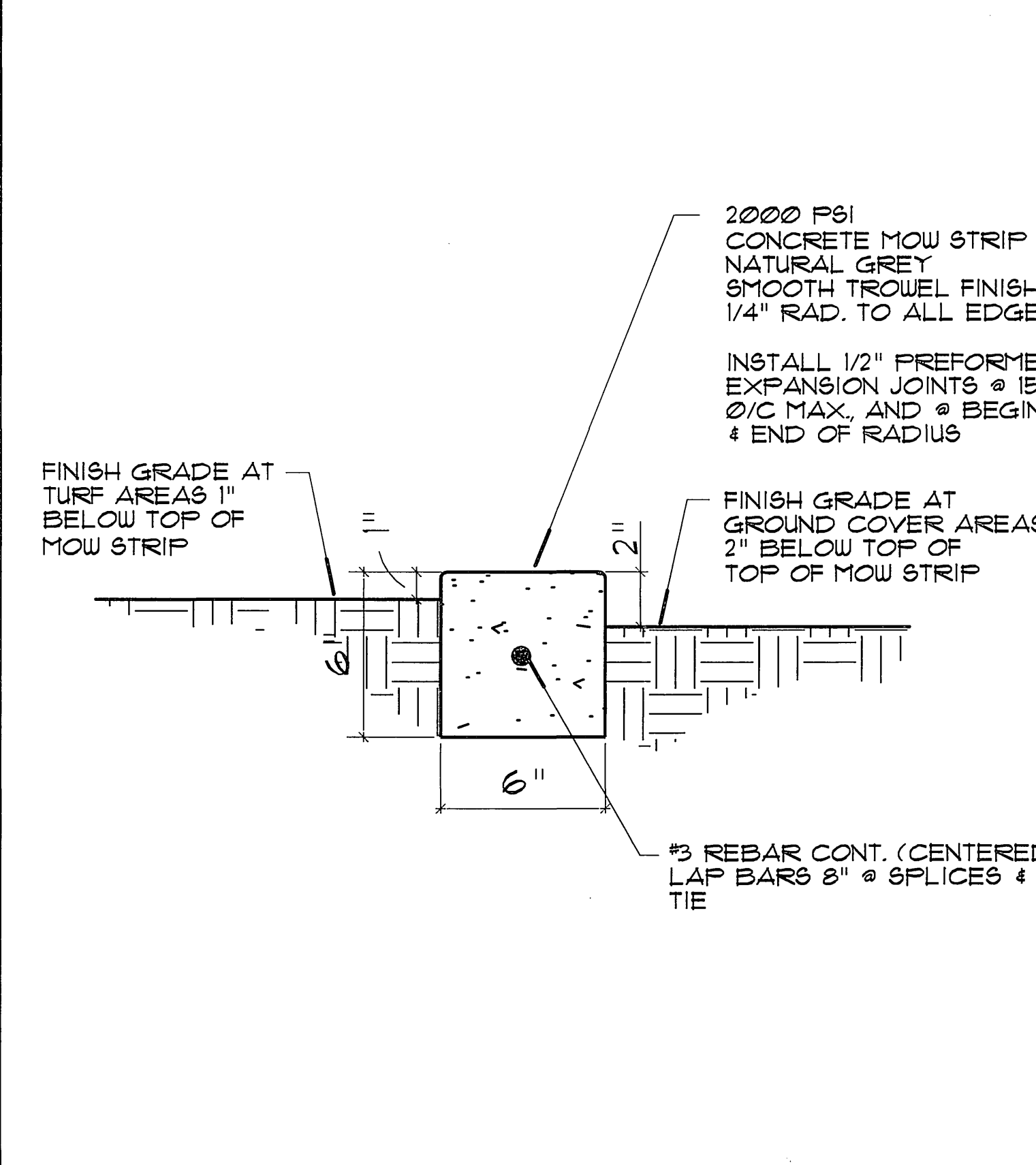


Approved BJ	Date 08/28/05	Park and Recreation Department CITY OF RIVERSIDE	Detail No. 1002
Revised	Date	DOUBLE STAKING DETAIL	

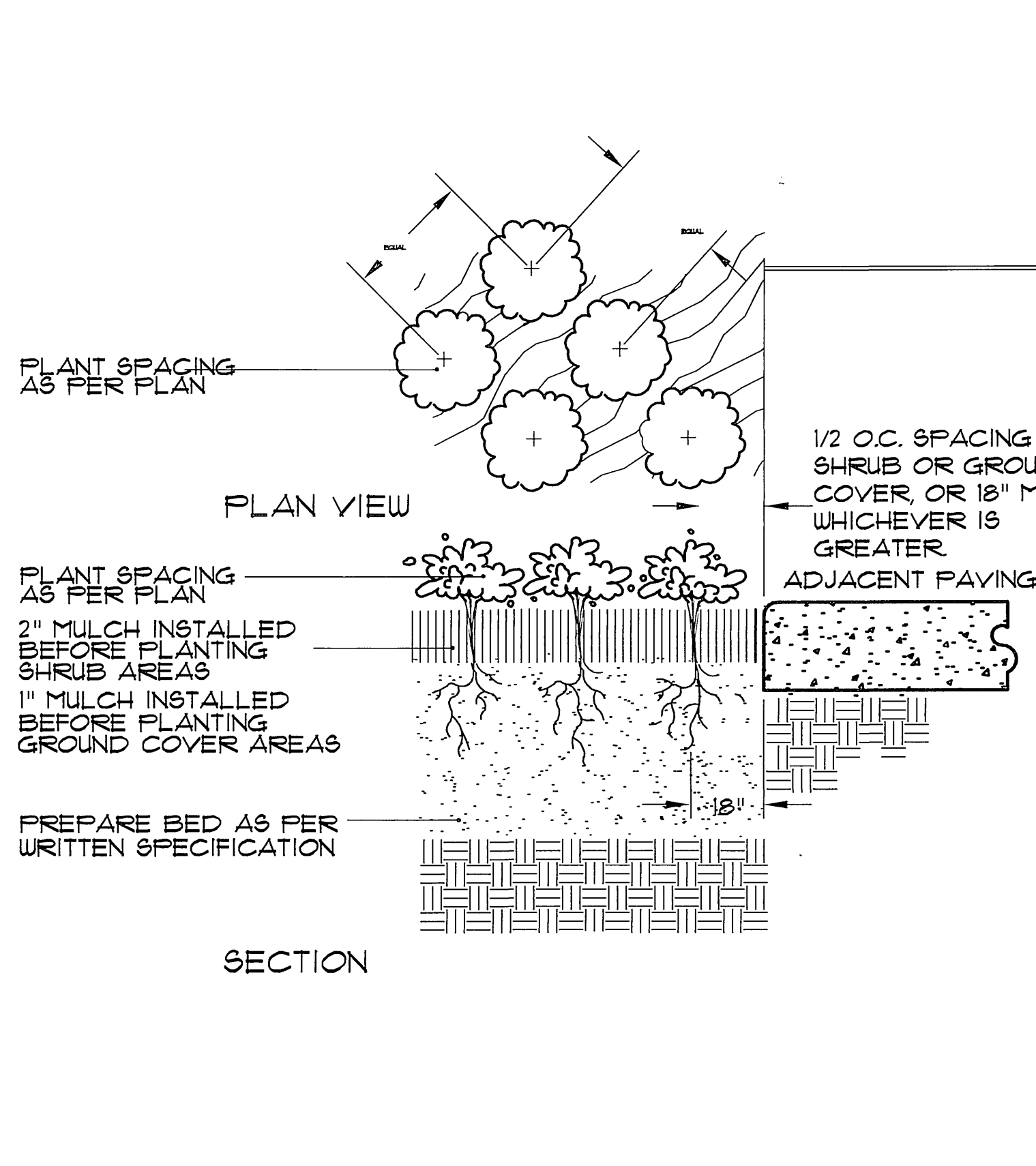
D PALM RELOCATION

- D. ANY CONCENTRATED DEVELOPMENT OF WEED GROWTH THAT MAY APPEAR IN PLANTING AREAS DURING MAINTENANCE PERIOD SHALL BE REMOVED AT TEN (10) DAY INTERVALS. THE CONTRACTOR MAY ELECT TO REMOVE SUCH CONCENTRATIONS OF WEEDS MANUALLY OR BY AN APPROVED HERBICIDE PROGRAM.
- E. DURING THE COURSE OF THE MAINTENANCE WORK, THE CONTRACTOR SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE AND SHALL KEEP THE PREMISES IN A NEAT AND CLEAN CONDITION AT ALL TIMES.
- F. DURING THE MAINTENANCE PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE PROTECTION FOR ALL PLANTING AREAS. ANY DAMAGED AREAS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
13. ITEMS 8, 10 & 12B ARE FOR BID PURPOSES ONLY. CONTRACTOR SHALL SUBMIT SOIL SAMPLE TO SOIL & PLANT LAB, P.O. BOX 6566 ORANGE, CA 92613 7142828111. CONTRACTOR SHALL SUBMIT TEST RESULTS TO L.A. FOR REVIEW CONTRACT. SHALL AMEND SOIL, PREPARE BACKFILL & FERTILIZ. PER TEST RESULTS, CITY SHALL PAY FOR WHOLESALE COST OF MATERIALS ONLY SHOULD TEST RESULTS REQUIRE ADDITIONAL MATERIALS BEYOND BID SPECIFICATION.

C SHRUB PLANTING



A DOUBLE STAKING



E PLANTING NOTES

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RA
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D MOW CURB

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B GC/SHRUB SPACING

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

UNIVERSITY AVENUE WIDENING

ACC. NO. 9577830214-4403020X
R-3747-L
LPD-1

PLANTING DETAILS

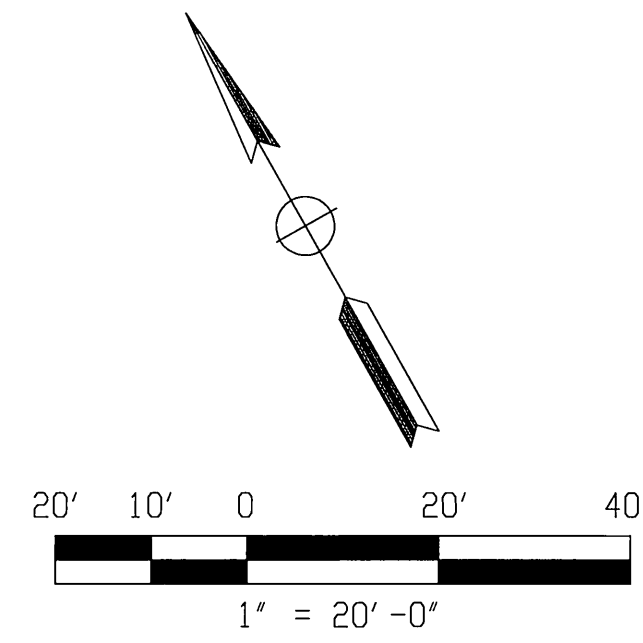
SHEET 34 OF 37
PC-4373-M/PK2-PRP03-0013
N.A. 0316

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CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS							
		1	2	3	4	5	6	7	8
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 9 WIRE IMSA 3 WIRE IMSA TOTAL	1 1 1 3	2 1 1 4	3 1 1 5	4 1 1 6	2 1 1 4	1 1 1 3	1 1 1 3	1 1 1 3
DETECTOR CABLE	#16/2	-	-	-	-	-	-	-	-
PHASE 1		-	-	1	-	-	-	-	-
PHASE 2		-	2	2	2	2	2	2	2
PHASE 3		-	-	1	1	1	-	-	-
PHASE 4		-	1	1	1	-	-	-	-
PHASE 5		-	-	1	1	1	1	1	1
PHASE 6		-	-	2	-	-	-	-	-
PHASE 7		-	1	1	1	-	-	-	-
PHASE 8		-	-	1	1	1	-	-	-
TOTAL		-	2	2	10	5	5	3	3
PRE-EMPTION CABLE	4#20	1	1	2	4	2	1	1	-
INTERCONNECT	6-PAIR #19	-	-	-	-	-	-	-	-
I.I.S.N.S.	#12	2	2	-	-	2	2	2	-
LUMINAIRES	#8	2	2	-	-	2	2	2	-
SIGNAL SERVICE	#6	-	-	-	2	-	-	-	-
CONDUIT SIZE		2"	3"	2-3"	2-3"	3"	2 1/2"	3"	2"
		(N)	(N)	(E)	(E)	(N)	(N)	(N)	(N)

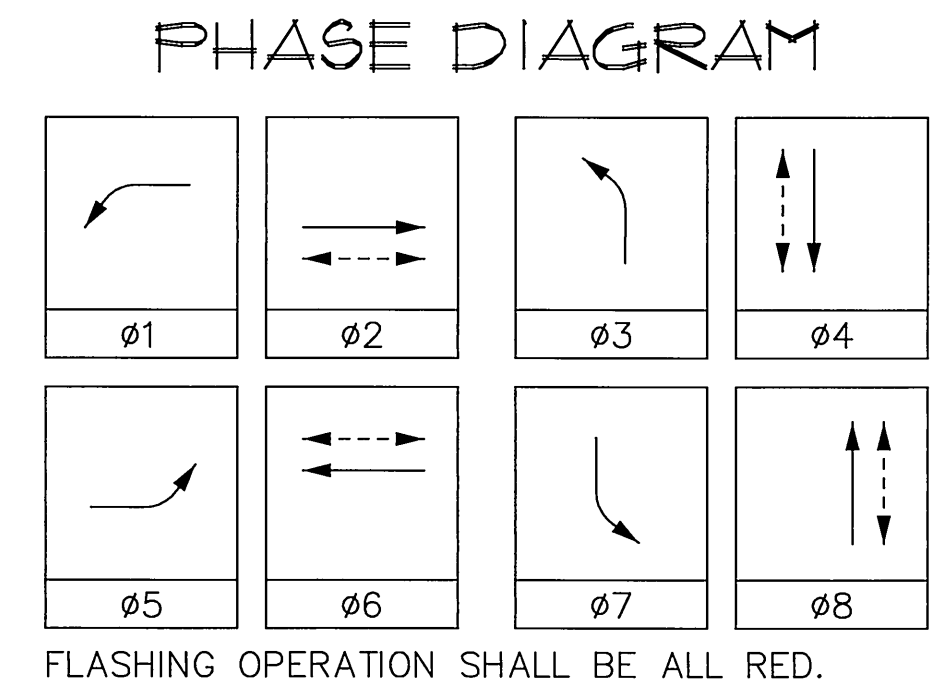
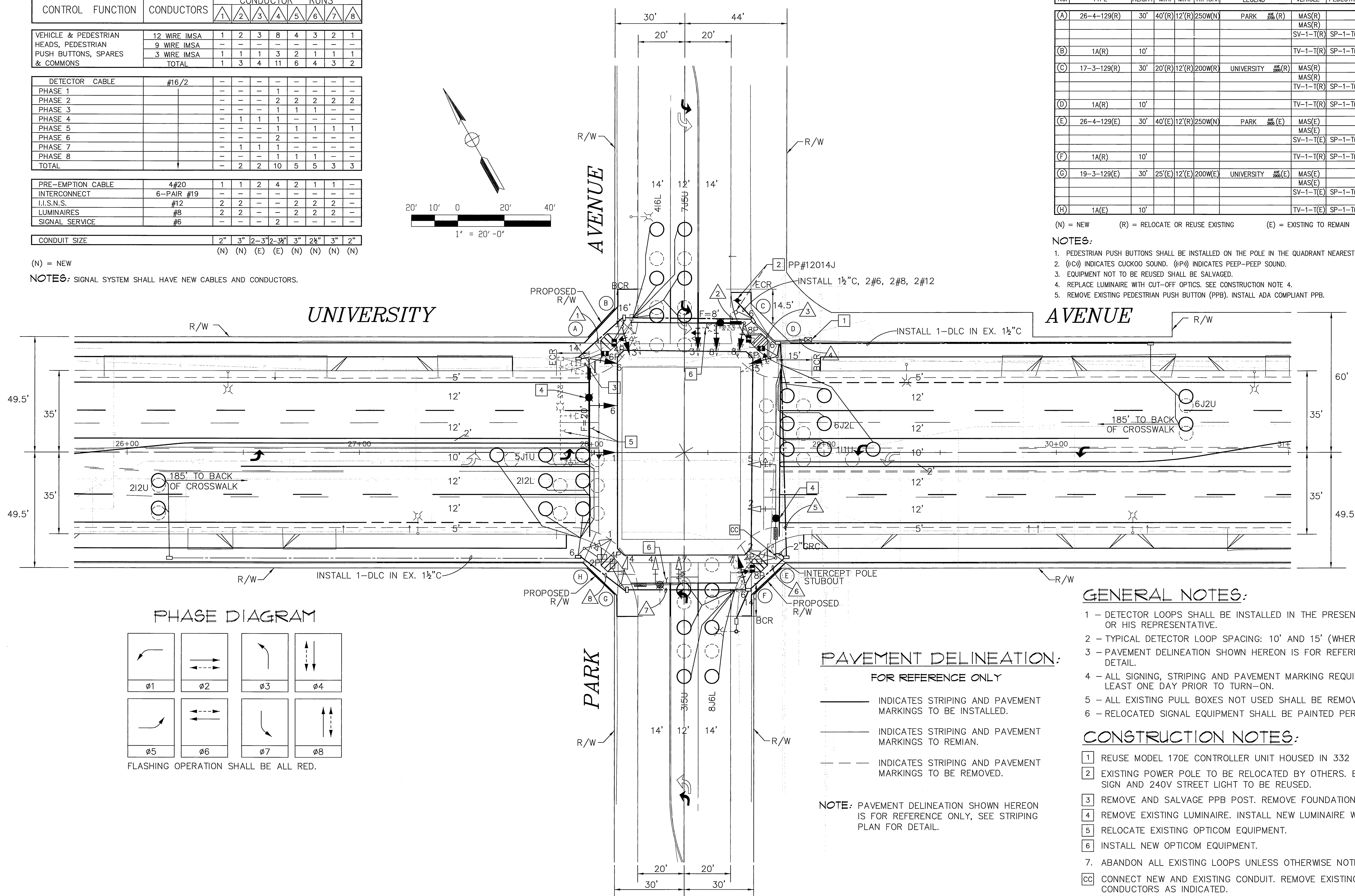
(N) = NEW
 NOTES: SIGNAL SYSTEM SHALL HAVE NEW CABLES AND CONDUCTORS.



EQUIPMENT SCHEDULE

No.	SIGNAL STANDARD TYPE	HEIGHT	LUMINAIRE			I.I.S.N.S. LEGEND	SIGNAL MOUNTINGS			PPB PHASE	REMARKS		
			M.A.	M.A.	H.P.S.V.		VEHICLE	PEDESTRIAN	AUDIBLE				
(A)	26-4-129(R)	30'	40'(R)	12'(R)	250W(N)	PARK	MAS(R)	MAS(R)	SV-1-T(R)	SP-1-T(R)	((P)) (R)	4(N)	RELOCATE ALL EQUIPMENT SEE NOTES 3 & 4
(B)	1A(R)	10'					TV-1-T(R)	SP-1-T(R)	((C)) (R)			6(R)	RELOCATE ALL EQUIPMENT
(C)	17-3-129(R)	30'	20'(R)	12'(R)	200W(R)	UNIVERSITY	MAS(R)	MAS(R)	TV-1-T(R)	SP-1-T(R)	((C)) (R)	6(R)	RELOCATE ALL EQUIPMENT
(D)	1A(R)	10'					TV-1-T(R)	SP-1-T(R)	((P)) (R)			8(R)	RELOCATE ALL EQUIPMENT
(E)	26-4-129(E)	30'	40'(E)	12'(E)	250W(N)	PARK	MAS(E)	MAS(E)	SV-1-T(E)	SP-1-T(E)	((P)) (E)	8(E)	SEE NOTE 4
(F)	1A(R)	10'					TV-1-T(R)	SP-1-T(R)	((C)) (R)			2(R)	RELOCATE ALL EQUIPMENT
(G)	19-3-129(E)	30'	25'(E)	12'(E)	200W(E)	UNIVERSITY	MAS(E)	MAS(E)	SV-1-T(E)	SP-1-T(E)	((C)) (E)	2(E)	
(H)	1A(E)	10'					TV-1-T(E)	SP-1-T(E)	((P)) (E)			4(E)	

(N) = NEW (R) = RELOCATE OR REUSE EXISTING (E) = EXISTING TO REMAIN
 NOTES:
 1. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.
 2. ((C)) INDICATES CUCKOO SOUND. ((P)) INDICATES PEEP-PEEP SOUND.
 3. EQUIPMENT NOT TO BE REUSED SHALL BE SALVAGED.
 4. REPLACE LUMINAIRE WITH CUT-OFF OPTICS. SEE CONSTRUCTION NOTE 4.
 5. REMOVE EXISTING PEDESTRIAN PUSH BUTTON (PPB). INSTALL ADA COMPLIANT PPB.



PAVEMENT DELINEATION:
 FOR REFERENCE ONLY

- INDICATES STRIPING AND PAVEMENT MARKINGS TO BE INSTALLED.
- - - INDICATES STRIPING AND PAVEMENT MARKINGS TO REMAIN.
- INDICATES STRIPING AND PAVEMENT MARKINGS TO BE REMOVED.

NOTE: PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY, SEE STRIPING PLAN FOR DETAIL.

GENERAL NOTES:
 1 - DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE CITY TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
 2 - TYPICAL DETECTOR LOOP SPACING: 10' AND 15' (WHERE APPLICABLE).
 3 - PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY, SEE STRIPING PLAN FOR DETAIL.
 4 - ALL SIGNING, STRIPING AND PAVEMENT MARKING REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN-ON.
 5 - ALL EXISTING PULL BOXES NOT USED SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR.
 6 - RELOCATED SIGNAL EQUIPMENT SHALL BE PAINTED PER CALTRANS 86-2.16 (1999).

CONSTRUCTION NOTES:
 [1] REUSE MODEL 170E CONTROLLER UNIT HOUSED IN 332 CABINET.
 [2] EXISTING POWER POLE TO BE RELOCATED BY OTHERS. EXISTING SERVICE: 120V SIGNAL, 120V SIGN AND 240V STREET LIGHT TO BE REUSED.
 [3] REMOVE AND SALVAGE PPB POST. REMOVE FOUNDATION.
 [4] REMOVE EXISTING LUMINAIRE. INSTALL NEW LUMINAIRE WITH CUT-OFF OPTICS.
 [5] RELOCATE EXISTING OPTICOM EQUIPMENT.
 [6] INSTALL NEW OPTICOM EQUIPMENT.
 7. ABANDON ALL EXISTING LOOPS UNLESS OTHERWISE NOTED.
 [CC] CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.



LIN Consulting, Inc.
 Traffic, Civil, and Electrical Consulting Engineers
 21660 E. COPLEY DRIVE, SUITE 270
 DIAMOND BAR, CALIFORNIA 91765
 TEL: (909)396-6850 FAX: (909)396-8150

ENGINEER IN RESPONSIBLE CHARGE
 DENWUN LIN
 R.C.E. No. 46719 expires 6/30/07
 DATE: 3/10/04

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: KH DRAWN BY: BY CHECKED BY:

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]
 DATE: 3/23/04

UNIVERSITY AVENUE WIDENING
 TRAFFIC SIGNAL REVISION
 UNIVERSITY AVENUE AND PARK AVENUE

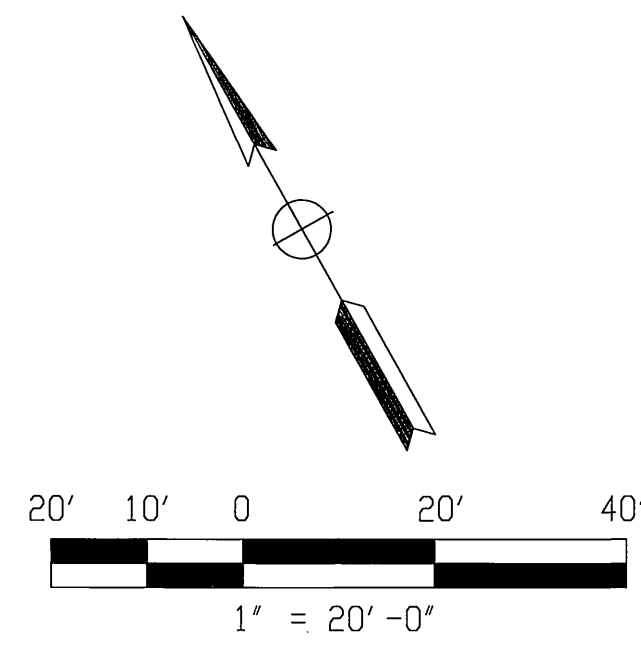
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CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS							
		1	2	3	4	5	6	7	8
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 9 WIRE IMSA 3 WIRE IMSA TOTAL	1	2	6	3	2	1		
DETECTOR CABLE	#16/2								
PHASE 1			1	1					
PHASE 2				2	2	2	2		
PHASE 4			1	1	1				
PHASE 5				1	1	1	1		
PHASE 6				2	2				
PHASE 8				2	2				
PRE-EMPTION CABLE	4#20	1	2	3					
I.I.S.N.S.	#12	2	2		2				
LUMINAIRES	#8	2	2		2	2			
SIGNAL SERVICE	#6			2	2				
CONDUIT SIZE		2"	3"	2-3"	3"	3"	2"		
		(N)	(N)	(N)	(N)	(N)	(N)		

(N) = NEW (E) = EXISTING
 NOTES: SIGNAL SYSTEM SHALL HAVE NEW CABLE AND CONDUCTORS.

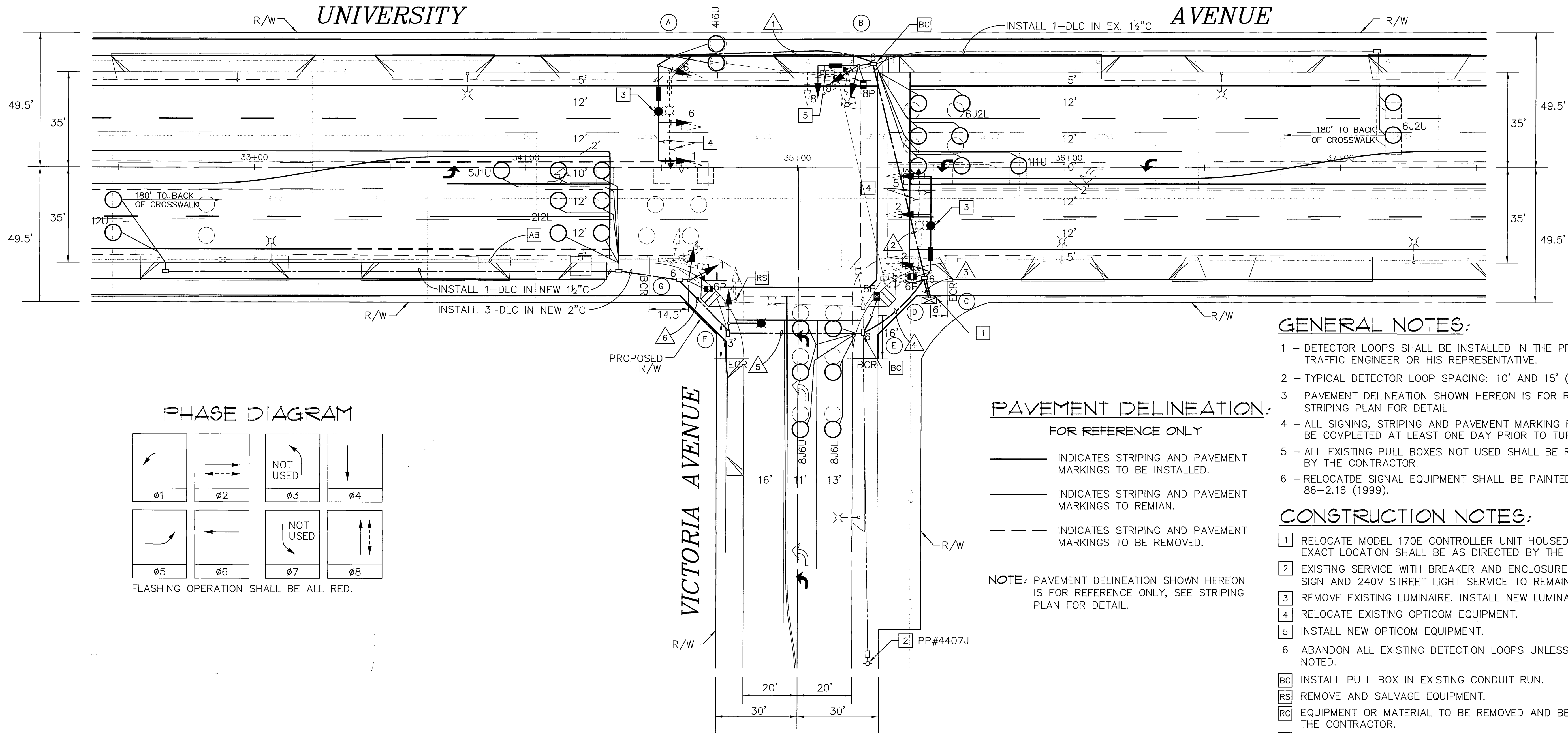


EQUIPMENT SCHEDULE

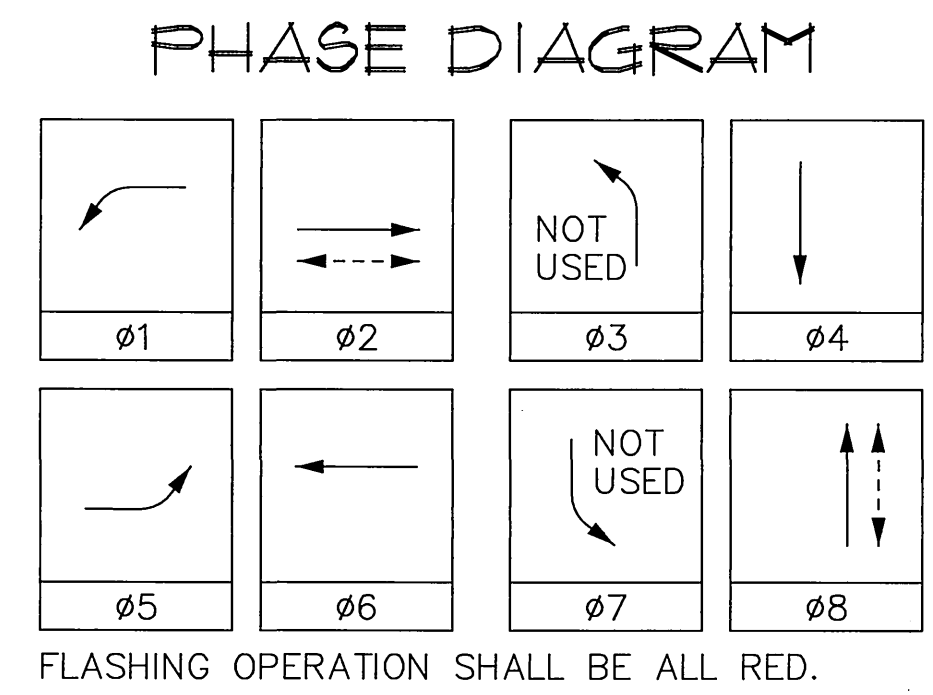
No.	SIGNAL STANDARD			LUMINAIRE	I.I.S.N.S.	SIGNAL MOUNTINGS			PPB PHASE	REMARKS
	TYPE	HEIGHT	M.A.			VEHICLE	PEDESTRIAN	AUDIBLE		
(A)	24-4-129(R)	35'	35'(R)	15'(R) 200W(N)	VICTORIA 1/2" (R)	MAS(R)				RELOCATE ALL EQUIPMENT SEE NOTE 3
						SV-1-T(R)				
(B)	16-1-70(R)	30'	15'(R)		UNIVERSITY 1/2" (R)	MAS(R)			8(R)	RELOCATE ALL EQUIPMENT
						SV-2-TD(R)	SP-1-T(R)			
(C)	24-4-129(R)	30'	35'(R)	15'(R) 200W(N)	VICTORIA 1/2" (R)	MAS(R)				RELOCATE ALL EQUIPMENT SEE NOTE 3
						SV-1-T(R)	SP-1-T(R)			
(D)	PPB POST(R)	3'-10"							8(R)	RELOCATE ALL EQUIPMENT
(E)	1-A(R)	7'					TP-1-T(R)		2(R)	RELOCATE ALL EQUIPMENT
(F)	TYPE 15(N)	30'		15'(N) 200W(N)		SV-1-T(N)			2(N)	
(G)	1-A(R)	10'				SV-1-T(R)	SP-1-T(R)			RELOCATE ALL EQUIPMENT

ALL EQUIPMENT ARE EXISTING OTHERWISE NOTED.
 (N) = NEW (R) = RELOCATE OR REUSE EXISTING

- NOTES:**
- REMOVE EXISTING PEDESTRIAN PUSH BUTTON (PPB). INSTALL ADA COMPLIANT PPB.
 - REPLACE LUMINAIRE WITH CUT-OFF OPTICS. SEE CONSTRUCTION NOTE 3.
 - PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.



- GENERAL NOTES:**
- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE CITY TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
 - TYPICAL DETECTOR LOOP SPACING: 10' AND 15' (WHERE APPLICABLE).
 - PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY, SEE STRIPING PLAN FOR DETAIL.
 - ALL SIGNING, STRIPING AND PAVEMENT MARKING REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN-ON.
 - ALL EXISTING PULL BOXES NOT USED SHALL BE REMOVED AND DISPOSAL BY THE CONTRACTOR.
 - RELOCATE SIGNAL EQUIPMENT SHALL BE PAINTED PER CALTRANS 86-2.16 (1999).
- CONSTRUCTION NOTES:**
- RELOCATE MODEL 170E CONTROLLER UNIT HOUSED IN 332 CABINET. EXACT LOCATION SHALL BE AS DIRECTED BY THE ENGINEER.
 - EXISTING SERVICE WITH BREAKER AND ENCLOSURE FOR 120V SIGNAL, 120V SIGN AND 240V STREET LIGHT SERVICE TO REMAIN.
 - REMOVE EXISTING LUMINAIRE. INSTALL NEW LUMINAIRE WITH CUT-OFF OPTICS.
 - RELOCATE EXISTING OPTICOM EQUIPMENT.
 - INSTALL NEW OPTICOM EQUIPMENT.
 - ABANDON ALL EXISTING DETECTION LOOPS UNLESS OTHERWISE NOTED.
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.
 RS REMOVE AND SALVAGE EQUIPMENT.
 RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
 AB ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.



PAVEMENT DELINEATION:
 FOR REFERENCE ONLY

- INDICATES STRIPING AND PAVEMENT MARKINGS TO BE INSTALLED.
- INDICATES STRIPING AND PAVEMENT MARKINGS TO REMIAN.
- INDICATES STRIPING AND PAVEMENT MARKINGS TO BE REMOVED.

NOTE: PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY, SEE STRIPING PLAN FOR DETAIL.



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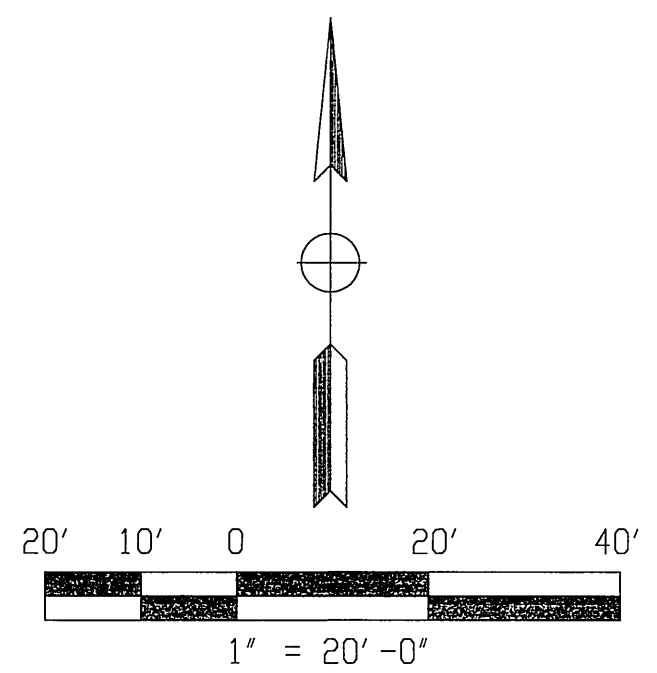
APPROVED BY: [Signature] DATE: 3/23/04
 TRAFFIC DIVISION
 INSPECTOR: [Signature] DATE: 3/23/04
 SURVEYOR: [Signature] DATE: 3/23/04
 STREET SERVICES

UNIVERSITY AVENUE WIDENING
 TRAFFIC SIGNAL REVISION
 UNIVERSITY AVENUE AND VICTORIA AVENUE
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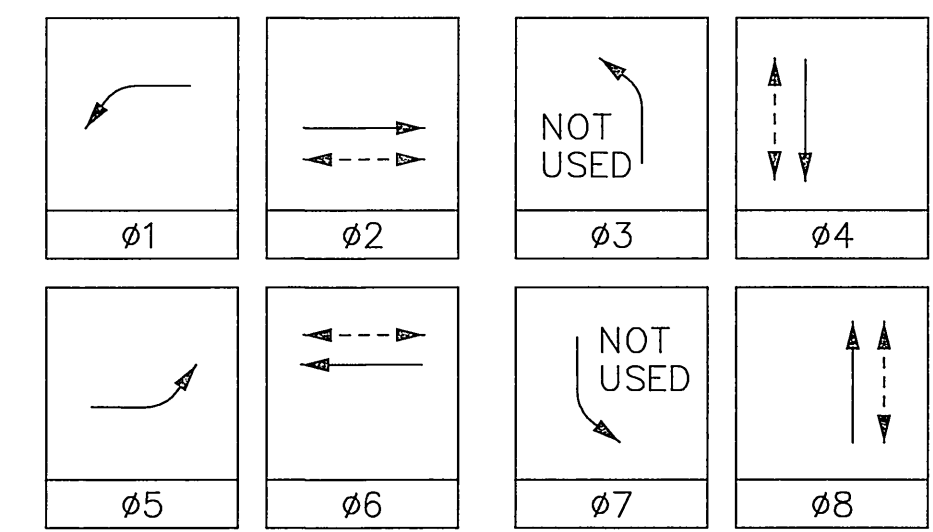
CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS								
		1	2	3	4	5	6	7	8	9
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA	1	2	7+1 ^(N)	4+1 ^(N)	1+1 ^(N)	1+1 ^(N)	1 ^(N)	1 ^(N)	1 ^(N)
	3 WIRE IMSA	1	3+1 ^(N)	2+1 ^(N)	1+1 ^(N)	1+1 ^(N)	1 ^(N)	1 ^(N)	1 ^(N)	1 ^(N)
DETECTOR CABLE	#16/2			1	1	1				
PHASE 1	#16/2			2	2	2				
PHASE 2	#16/2									
PHASE 3	#16/2									
PHASE 4	#16/2			1	1	1	1	1	1	1
PHASE 5	#16/2	1	1	1						
PHASE 6	#16/2			2	2	2				
PHASE 7	#16/2									
PHASE 8	#16/2			1						
PRE-EMPTION CABLE	4#20	1	2+2 ^(N)	2 ^(N)	1+1 ^(N)	1+1 ^(N)	1 ^(N)	1 ^(N)	1 ^(N)	1 ^(N)
I.L.S.N.S.	#12	2	2	2	2	2				2 ^(N)
LUMINAIRES	#8	2	2	2	2	2				2 ^(N)
SIGNAL SERVICE	#6		2							
INTERCONNECT	#19	1	1	1	1	1				
CONDUIT SIZE		2"	3"	2-3"	3"	3"	3"	3"	2"	2"

ALL EQUIPMENT ARE EXISTING UNLESS OTHERWISE NOTED.
(N) = NEW

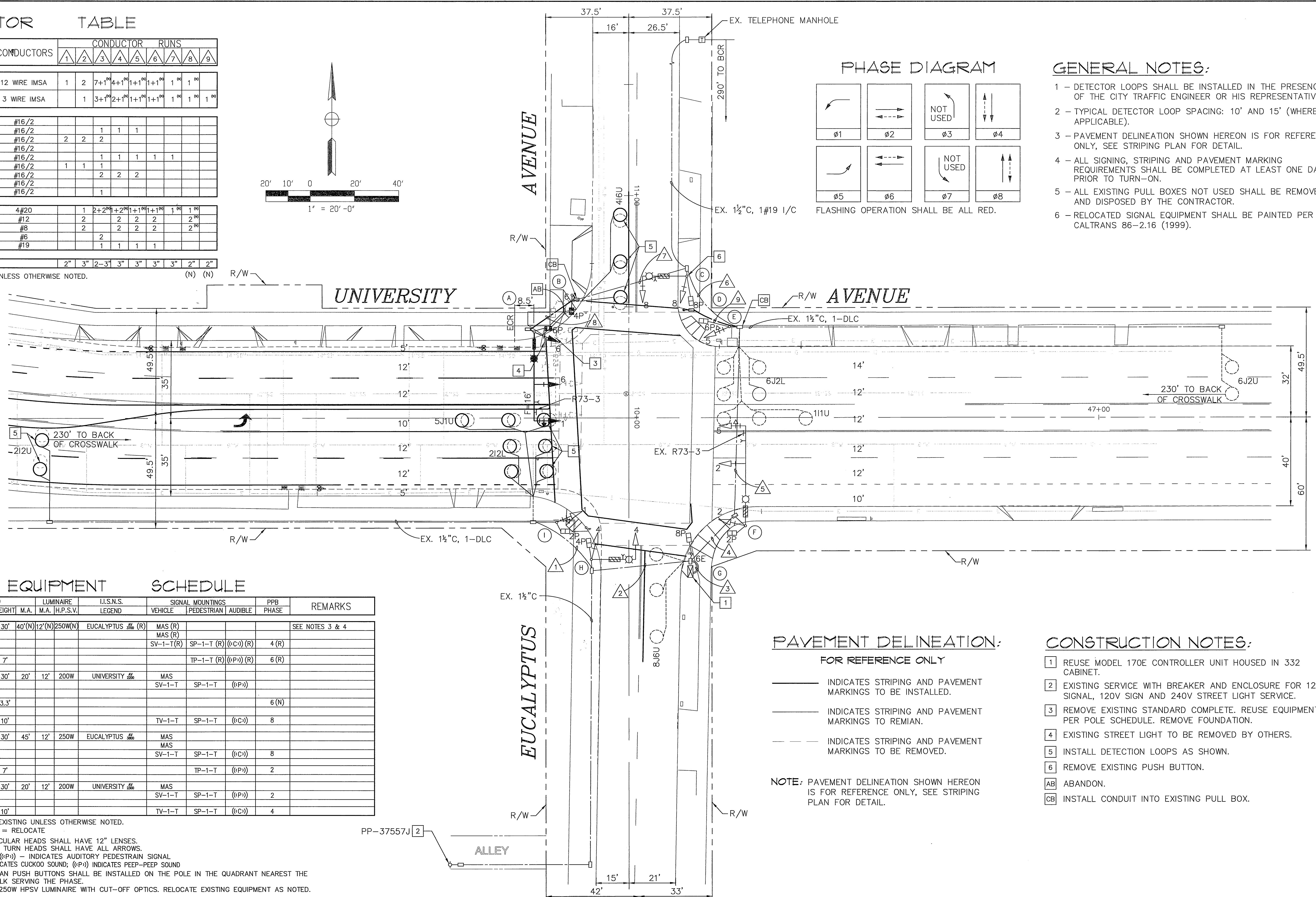


PHASE DIAGRAM



GENERAL NOTES:

- DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE CITY TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
- TYPICAL DETECTOR LOOP SPACING: 10' AND 15' (WHERE APPLICABLE).
- PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY, SEE STRIPING PLAN FOR DETAIL.
- ALL SIGNING, STRIPING AND PAVEMENT MARKING REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN-ON.
- ALL EXISTING PULL BOXES NOT USED SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR.
- RELOCATED SIGNAL EQUIPMENT SHALL BE PAINTED PER CALTRANS 86-2.16 (1999).



EQUIPMENT SCHEDULE

No.	SIGNAL STANDARD TYPE	HEIGHT	M.A.	LUMINAIRE M.A. H.P.S.V.	I.L.S.N.S. LEGEND	SIGNAL MOUNTINGS		PPB PHASE	REMARKS
						VEHICLE	PEDESTRIAN AUDIBLE		
(A)	26-4-80 (N)	30'	40'(N)	12'(N)	250W(N)	EUCALYPTUS	MAS (R)		SEE NOTES 3 & 4
							MAS (R)		
							SV-1-T (R)	SP-1-T (R) ((C)) (R)	4 (R)
(B)	1A (R)	7'					TP-1-T (R) ((P)) (R)		6 (R)
(C)	17-2-80	30'	20'	12'	200W	UNIVERSITY	MAS		
							SV-1-T	SP-1-T ((P))	
(D)	PPBP (N)	3.3'							6 (N)
(E)	1A	10'					TV-1-T	SP-1-T ((C))	8
(F)	26-4-80	30'	45'	12'	250W	EUCALYPTUS	MAS		
							MAS		
							SV-1-T	SP-1-T ((C))	8
(G)	1A	7'					TP-1-T ((P))		2
(H)	17-2-80	30'	20'	12'	200W	UNIVERSITY	MAS		
							SV-1-T	SP-1-T ((P))	2
(I)	1A	10'					TV-1-T	SP-1-T ((C))	4

ALL EQUIPMENT ARE EXISTING UNLESS OTHERWISE NOTED.
(N) = NEW (R) = RELOCATE

NOTES: 1. ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
2. ALL LEFT TURN HEADS SHALL HAVE ALL ARROWS.
3. ((C)) OR ((P)) - INDICATES AUDITORY PEDESTRIAN SIGNAL ((C)) INDICATES CUCKOO SOUND; ((P)) INDICATES PEEP-PEEP SOUND
4. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.
5. INSTALL 250W HPSV LUMINAIRE WITH CUT-OFF OPTICS. RELOCATE EXISTING EQUIPMENT AS NOTED.

PAVEMENT DELINEATION:

- FOR REFERENCE ONLY
- INDICATES STRIPING AND PAVEMENT MARKINGS TO BE INSTALLED.
 - INDICATES STRIPING AND PAVEMENT MARKINGS TO REMAIN.
 - INDICATES STRIPING AND PAVEMENT MARKINGS TO BE REMOVED.

NOTE: PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY, SEE STRIPING PLAN FOR DETAIL.

CONSTRUCTION NOTES:

- REUSE MODEL 170E CONTROLLER UNIT HOUSED IN 332 CABINET.
- EXISTING SERVICE WITH BREAKER AND ENCLOSURE FOR 120V SIGNAL, 120V SIGN AND 240V STREET LIGHT SERVICE.
- REMOVE EXISTING STANDARD COMPLETE. REUSE EQUIPMENT PER POLE SCHEDULE. REMOVE FOUNDATION.
- EXISTING STREET LIGHT TO BE REMOVED BY OTHERS.
- INSTALL DETECTION LOOPS AS SHOWN.
- REMOVE EXISTING PUSH BUTTON.
- ABANDON.
- INSTALL CONDUIT INTO EXISTING PULL BOX.



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CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature] DATE: 3/23/04

PRINCIPAL ENGINEER: [Signature] DATE: 3/10/04
TRAFFIC DIVISION: [Signature] DATE: 3/10/04
INSPECTOR: [Signature] DATE: 3/10/04
SURVEYOR: [Signature] DATE: 3/10/04
STREET SERVICES: [Signature] DATE: 3/10/04

UNIVERSITY AVENUE WIDENING

TRAFFIC SIGNAL REVISION
UNIVERSITY AVENUE AND EUCALYPTUS AVENUE

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