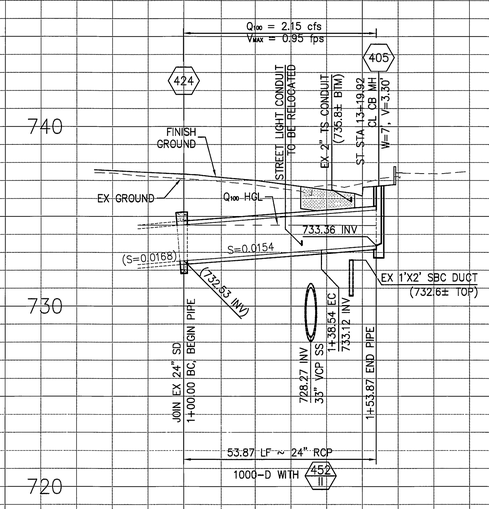
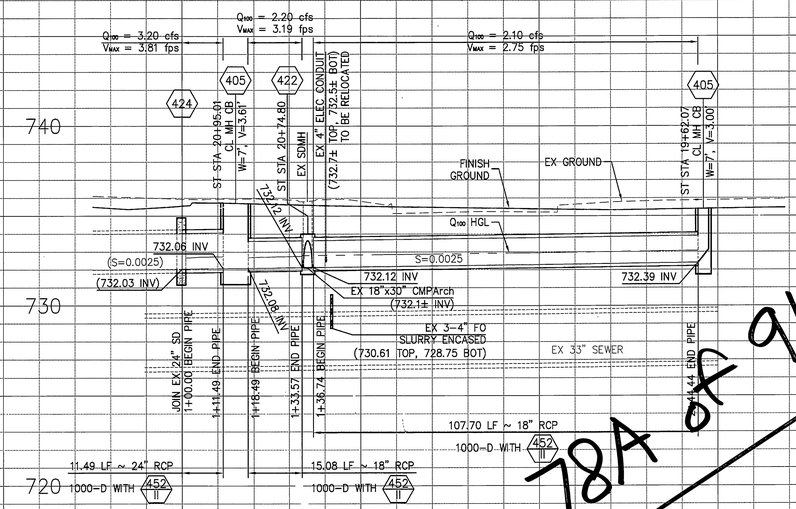


LINE 1

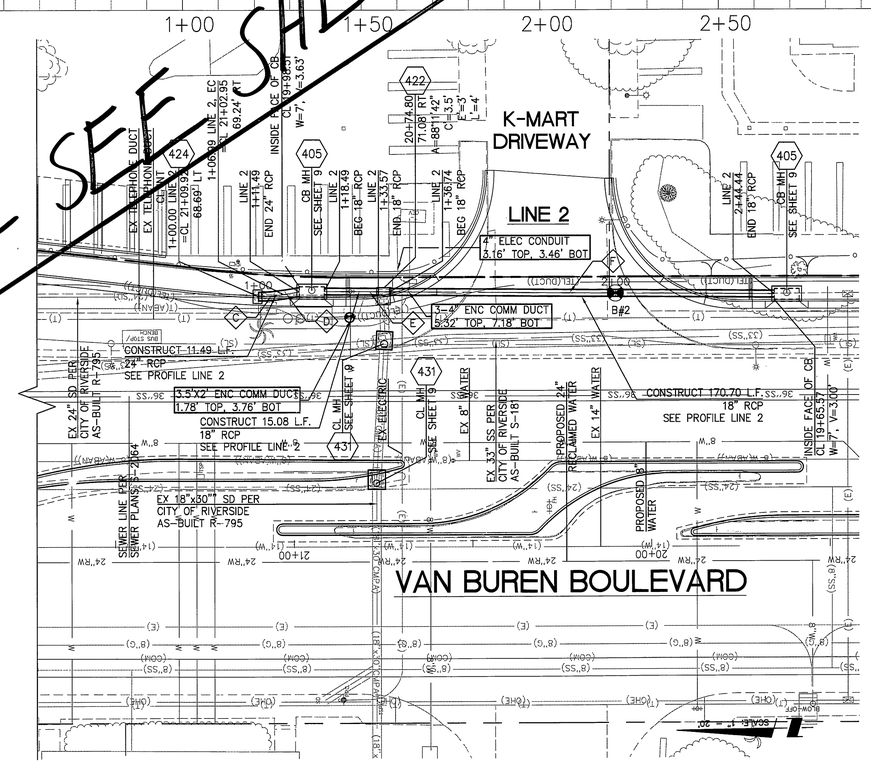


LINE 2

SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

SUPERSEDED - SEE SHEET 78A OF 91



LEGEND

B# — BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	49°04'09"	45.00'	38.54'	20.54'	1+00.00	1+38.54
B	N29°37'14"W	–	15.34'	–	–	–
C	8°54'19"	45.00'	6.99'	3.50'	1+00.00	1+06.99
D	N7°59'27"W	–	4.50'	–	–	–
E	N1°25'00"E	–	15.12'	–	–	–
F	N1°25'00"E	–	107.70'	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PLS# 64342, EXP 06/30/09
REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE
1	DELETED SHEET & CREATED SHT 78A		

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

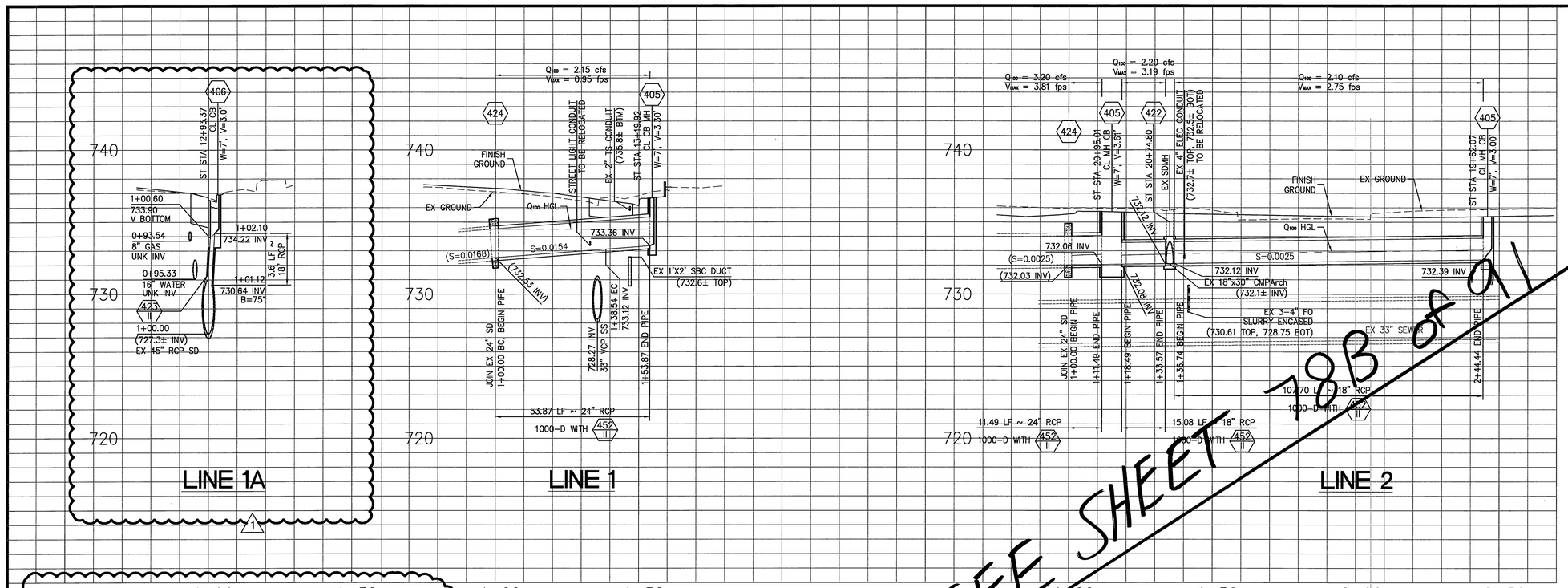
VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 1 & 2

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

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 78 OF 91
SD-01

DWG Name: M:\2RIV030200\Engr\Plan Sheets\p1-SD_01.dwg Plotted by: mcampos on Dec 16, 2008 - 11:20:08



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

LEGEND

B# — BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	49°04'09"	45.00'	38.54'	20.54'	1+00.00	1+38.54
B	N29°37'14"W	–	15.34'	–	–	–
C	8°54'19"	45.00'	6.99'	3.50'	1+00.00	1+06.99
D	N7°59'27"W	–	4.50'	–	–	–
E	N1°25'00"E	–	15.12'	–	–	–
F	N1°25'00"E	–	107.70'	–	–	–
G	N87°21'45"E	–	0.98'	–	–	–

SUPERSEDED - SEE SHEET 78B OF 91

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811 FOR THE LOCATION OF BURIED UTILITY LINES. DON'T DISRUPT VITAL SERVICES.

TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:

LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3

ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/09

REGISTERED PROFESSIONAL ENGINEER — MARK A. VERRENGIA — No. 64342 — Exp. 06/30/09 — CIVIL — STATE OF CALIFORNIA

DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE
1	ADDED CATCH BASIN ON VAN BUREN BLVD	EL	5/02/10

DESIGNED BY STAFF DRAWN BY STAFF CHECKED BY MAV

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 1 & 2

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

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

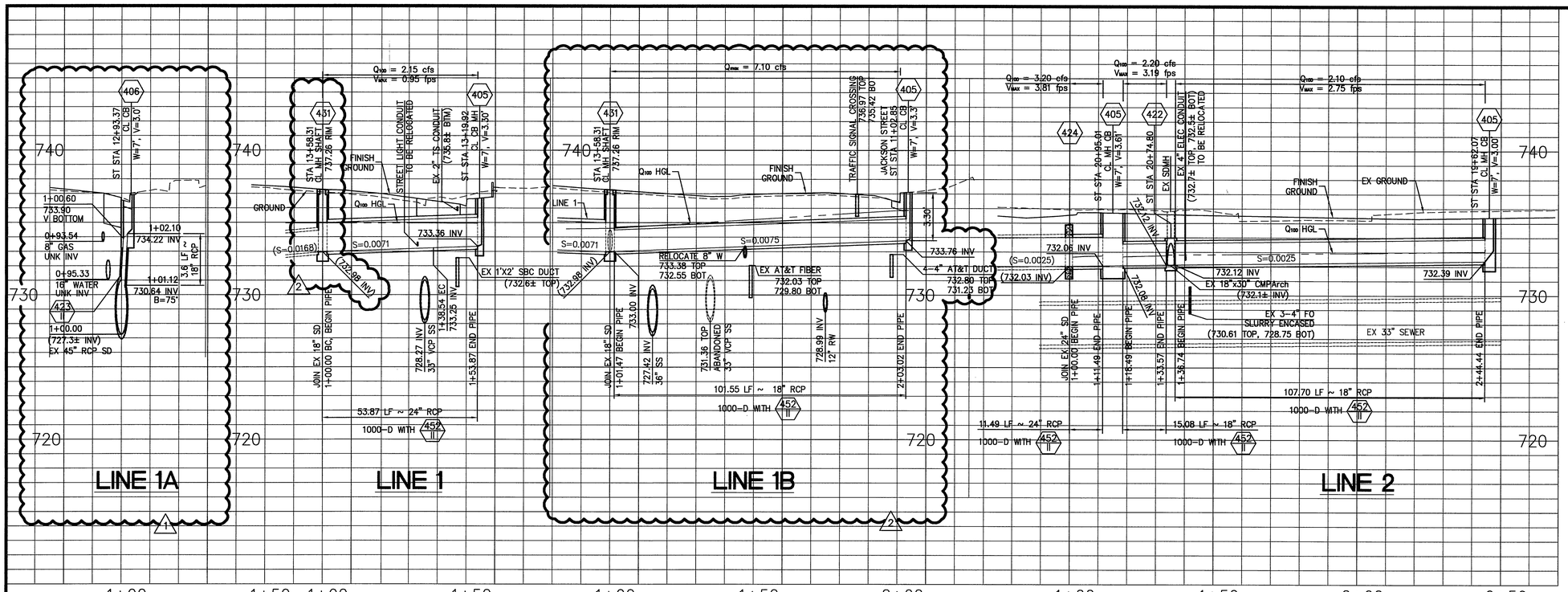
D-807

SHEET 78A OF 91

SD-01

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_01.dwg Plotted by: grobison on Mar 04, 2010 - 11:50:20



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

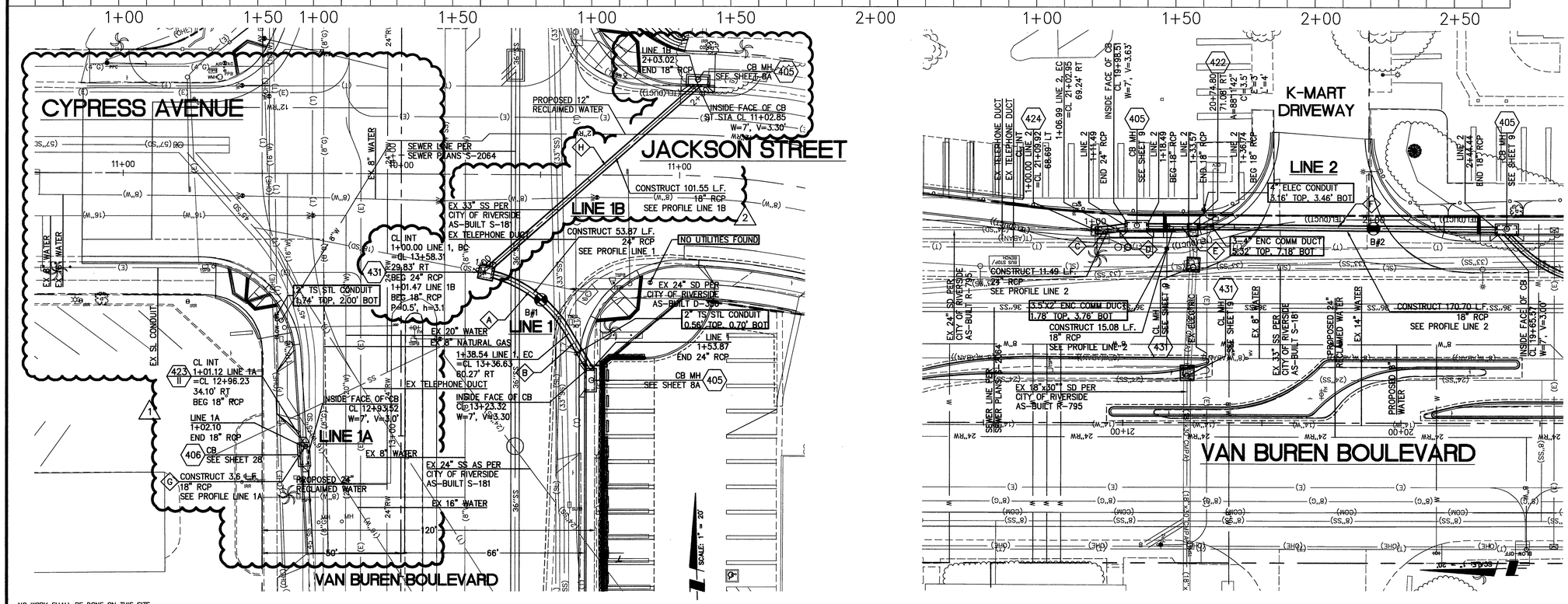
LEGEND

B# — BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	49°04'09"	45.00'	38.54'	20.54'	1+00.00	1+38.54
B	N29°37'14"W	–	15.34'	–	–	–
C	8°54'19"	45.00'	6.99'	3.50'	1+00.00	1+06.99
D	N7°59'27"W	–	4.50'	–	–	–
E	N1°25'00"E	–	15.12'	–	–	–
F	N1°25'00"E	–	107.70'	–	–	–
G	N87°21'45"E	–	0.98'	–	–	–
H	N49°51'25"E	–	101.55'	–	–	–



20' 10' 0' 20' 40'

GRAPHIC SCALE

Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811 FOR THE LOCATION OF BURIED UTILITY LINES. DON'T DISRUPT VITAL SERVICES. TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:

LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3

ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92707
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/11
DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE
2	ADDED CATCH BASIN ON JACKSON STREET	EL	4/22/10
1	ADDED CATCH BASIN ON VAN BUREN BLVD	EL	3/02/10

DESIGNED BY STAFF DRAWN BY STAFF CHECKED BY MAV

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY _____ CITY ENGINEER

DATE _____

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 1 & 2

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

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

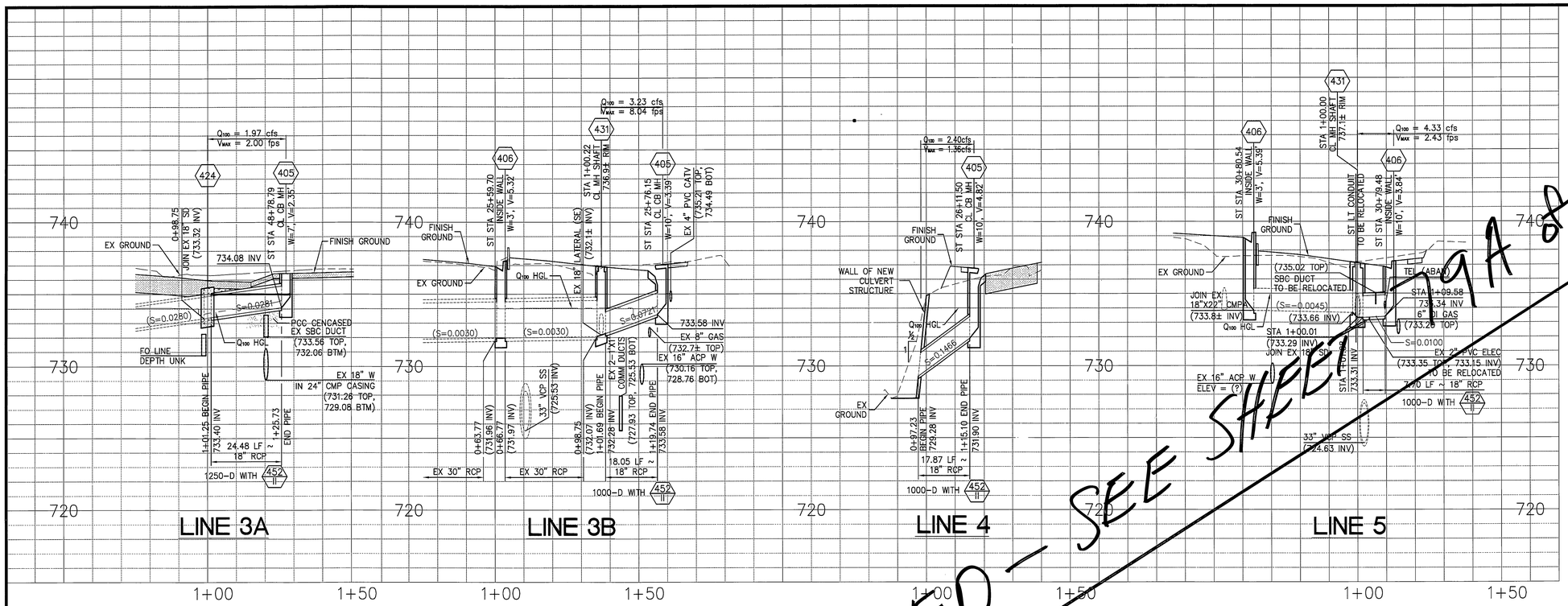
D-807

SHEET 78B OF 91

SD-01

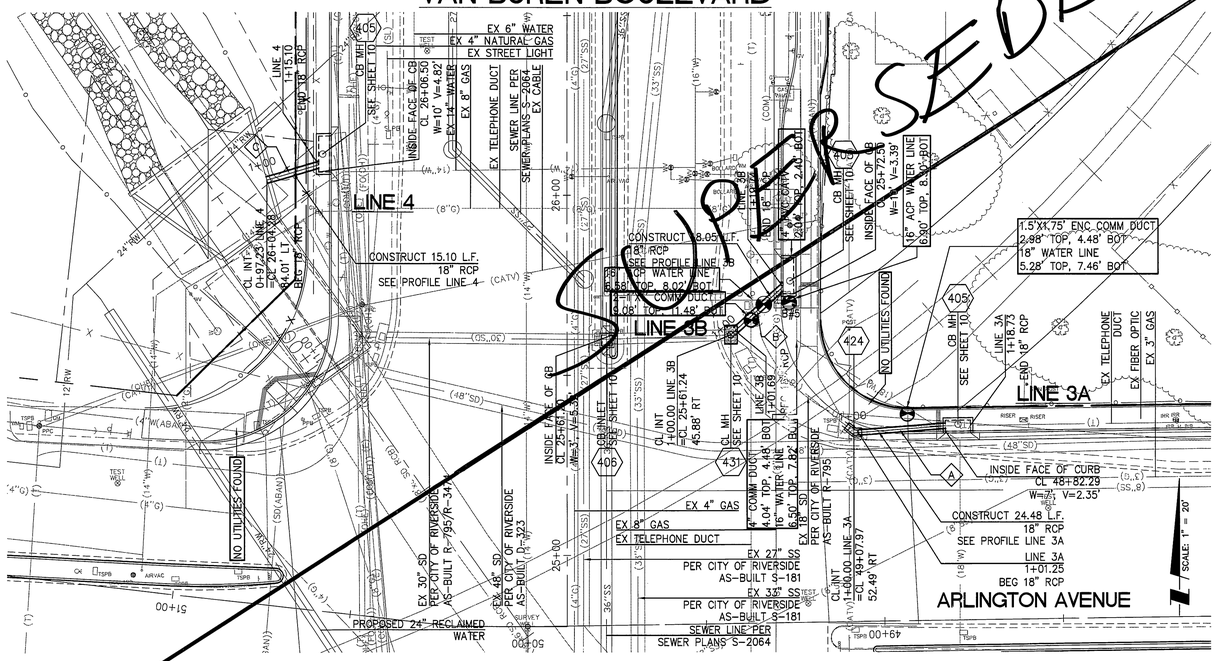
DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_01.dwg Plotted by: rhu on Apr 22, 2010 - 11:29:20

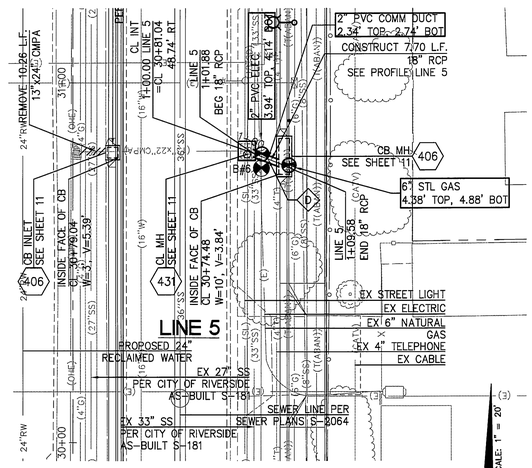
AS BUILT



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.





LEGEND

- B# — BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)
- POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N86°43'13"E	–	24.48	–	–	–
B	N48°44'09"E	–	18.05'	–	–	–
C	N74°48'31"E	–	15.10'	–	–	–
D	N67°50'40"W	–	7.70'	–	–	–
E	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., RCE # 64342, EXP 06/30/09
DATE Dec. 15, 08

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA RCE 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

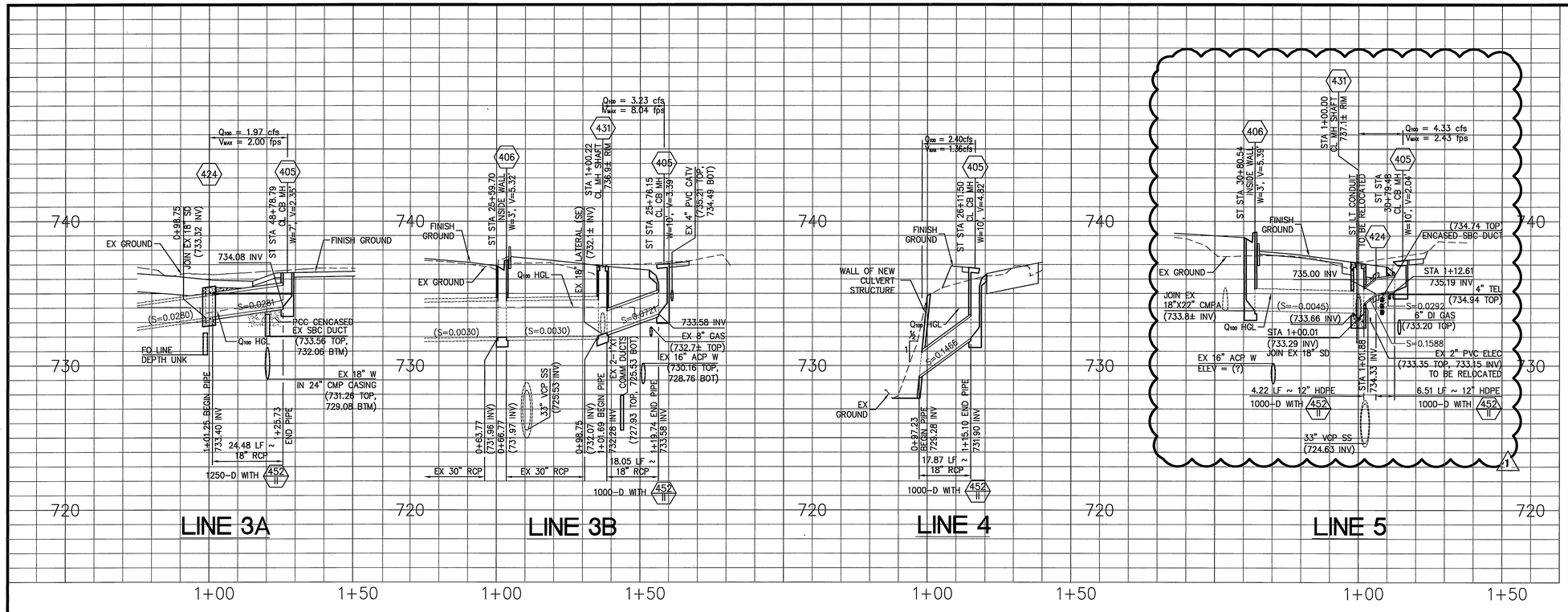
VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 3A, 3B, 4, & 5

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

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 79 OF 91
SD-02

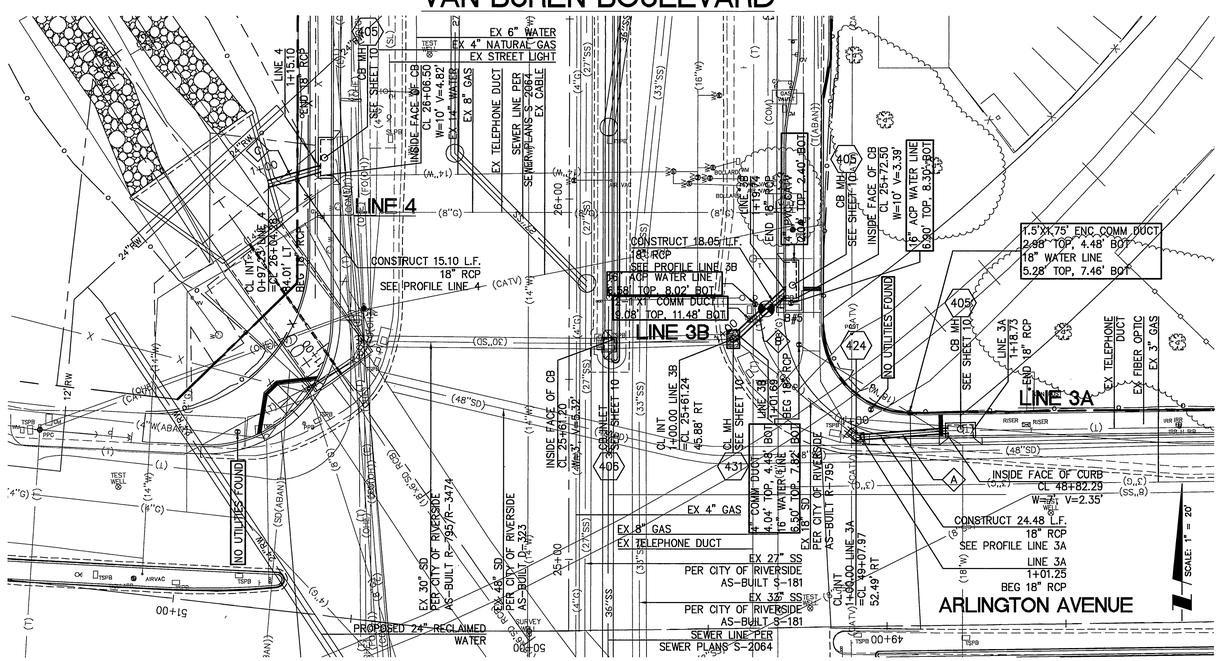
DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_02.dwg Plotted by: mcampos on Dec 16, 2008 - 11:21:30

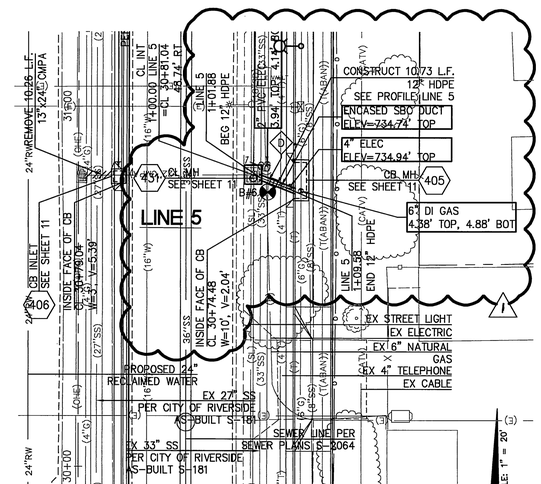


SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

VAN BUREN BOULEVARD





VAN BUREN BOULEVARD

LEGEND

B#	BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)
	POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N86°43'13"E	–	24.48	–	–	–
B	N48°44'09"E	–	18.05'	–	–	–
C	N74°48'31"E	–	15.10'	–	–	–
D	N67°50'40"W	–	10.73'	–	–	–
E	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Tail Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
BURIED CABLE
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92707
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/11
DATE Jul. 27, 09

MARK	REVISIONS	APPR.	DATE
1	REVISED SD LINES 5 & 8 FOR EXISTING UTILITY CONFLICTS	CL	7/30/09

DESIGNED BY STAFF DRAWN BY STAFF CHECKED BY MAV

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 3A, 3B, 4, & 5

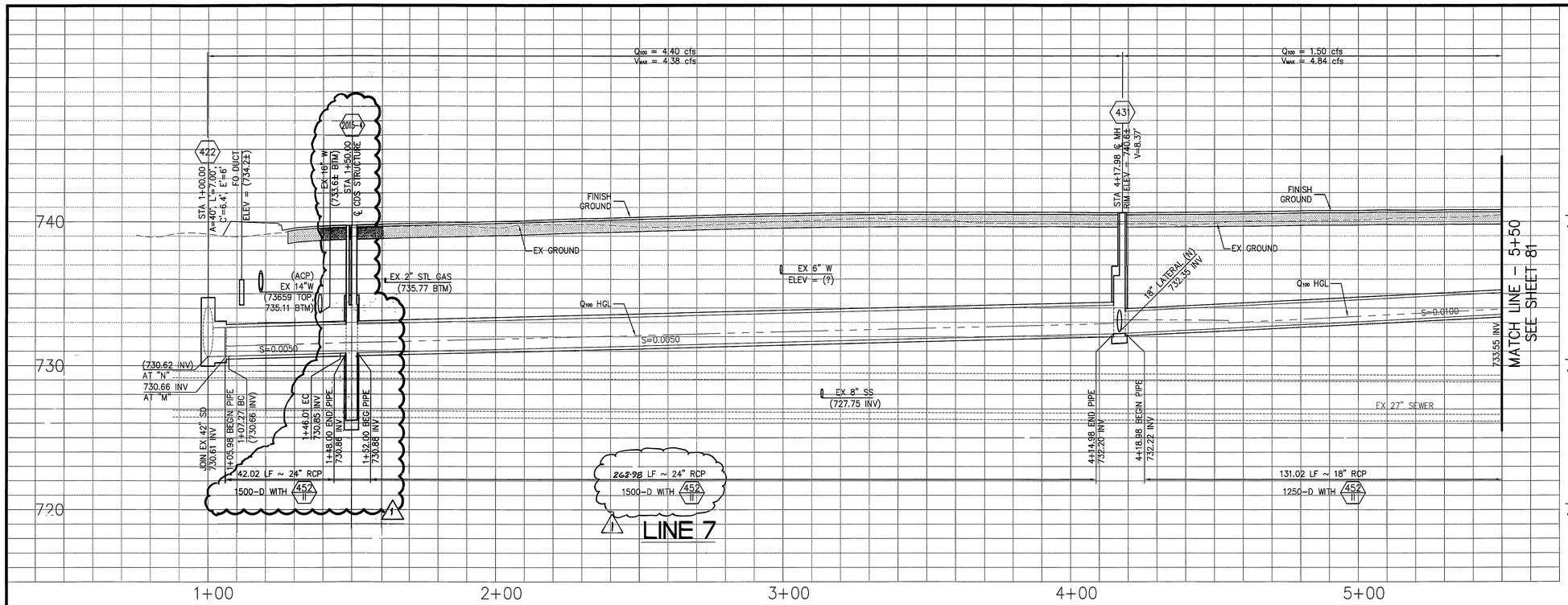
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 79A OF 91
SD-02

DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_02.dwg Plotted by: mcampos on Aug 10, 2009 – 12:57:41

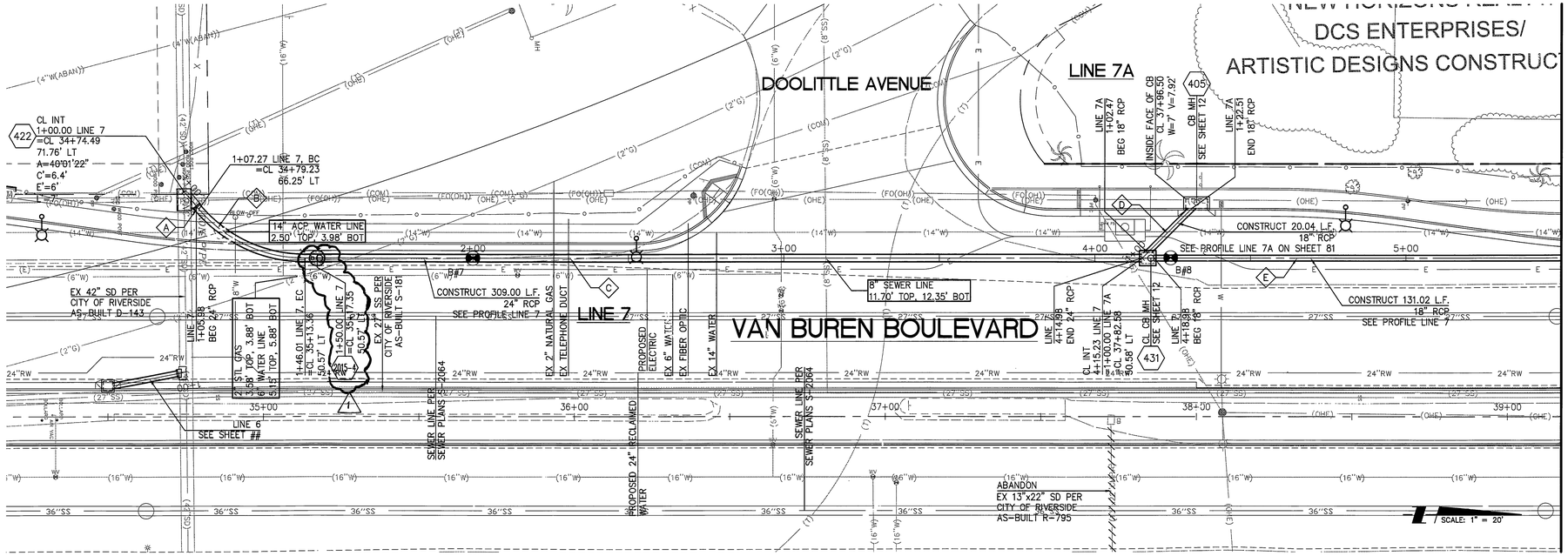
AS-BUILT



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

2015-4 FURNISH AND INSTALL HYDRODYNAMIC SEPARATION UNIT MODEL CDS2015-4 BY CONTECH (562) 733-0733 OR APPROVED EQUIVALENT. 1



LEGEND

B# — BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N50°17'22"E	–	1.28'	–	–	–
B	49°19'57"	45.00'	38.75'	20.67'	1+07.27	1+46.01
C	N0°57'25"E	–	268.97'	–	–	–
D	N44°02'35"W	–	20.04'	–	–	–
E	N0°57'25"E	–	131.02'	–	–	–
F	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/09

REGISTERED PROFESSIONAL ENGINEER — MARK A. VERRENGIA — No. 64342 — Exp. 06/30/09 — CIVIL — STATE OF CALIFORNIA

DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE
1	HYDRODYNAMIC SEPARATION UNITES	E.L.	7/7/09

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 7 & 7A

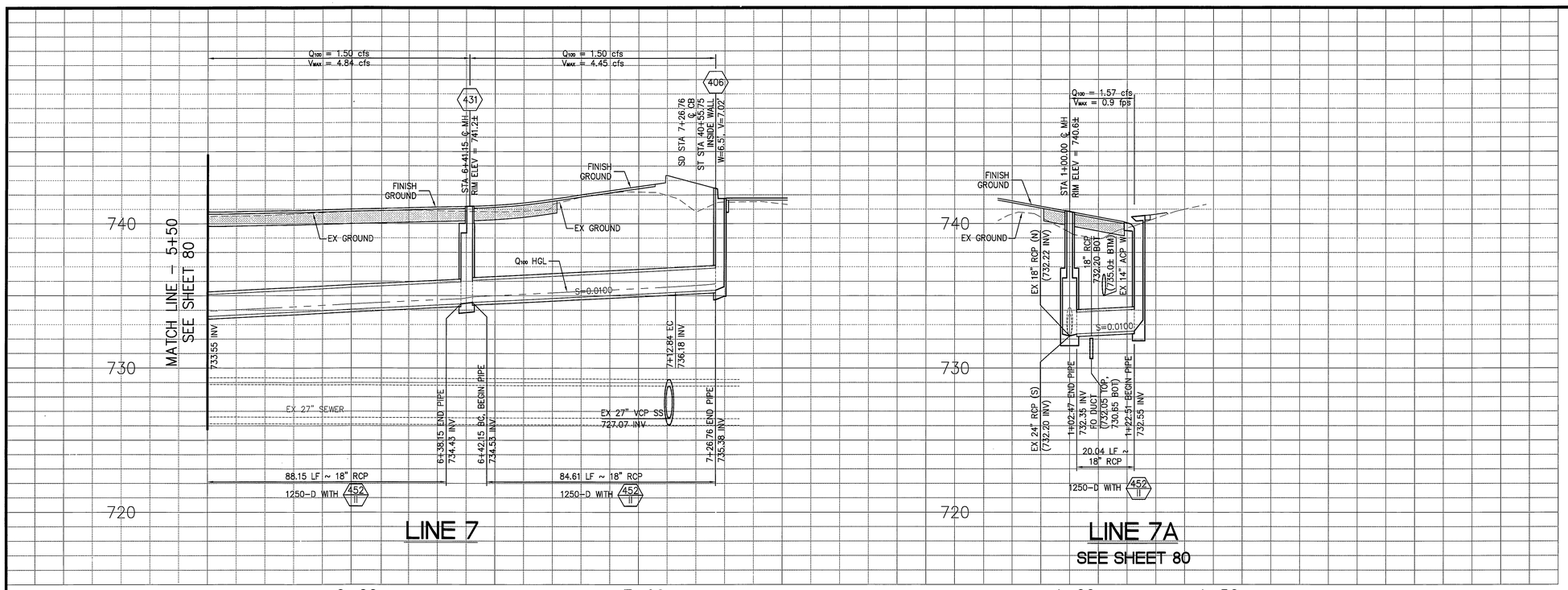
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 80 OF 91
SD-03

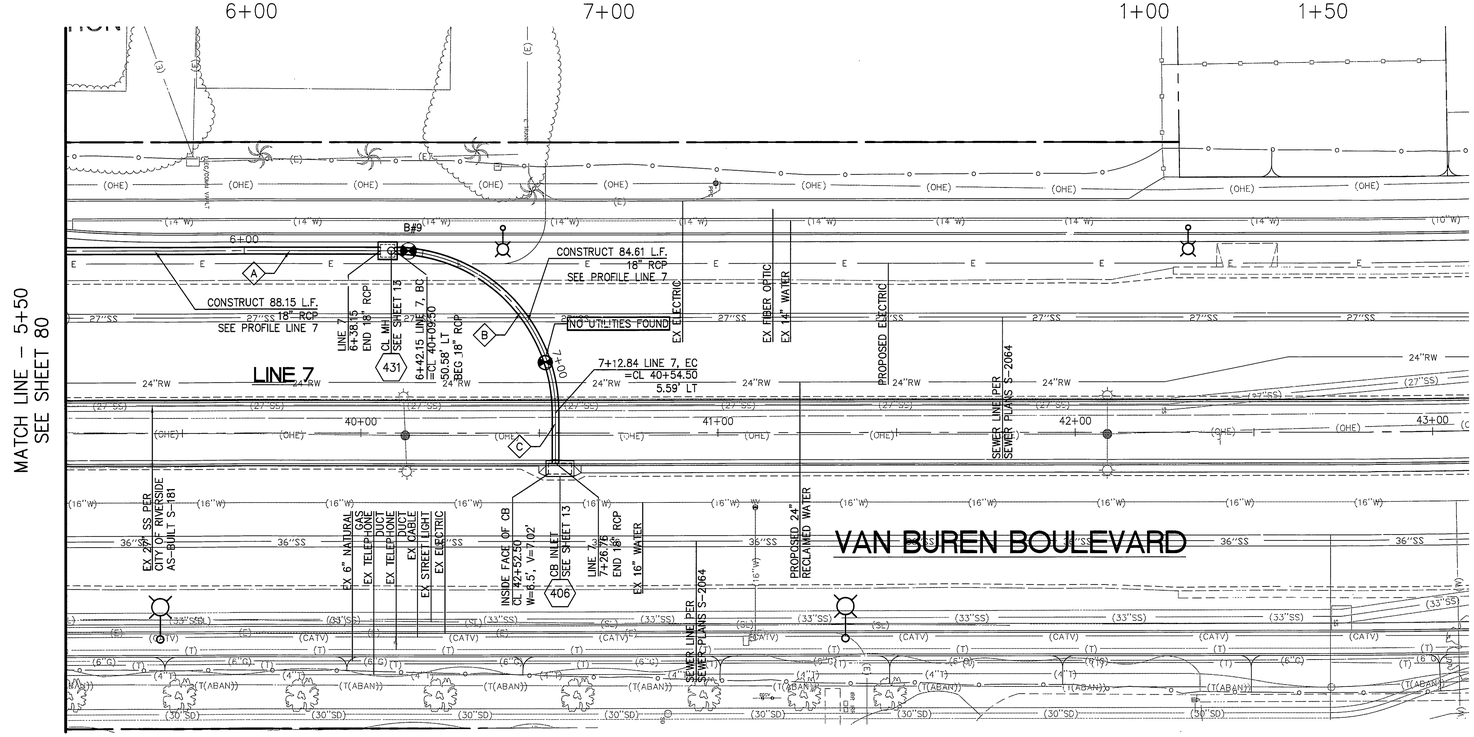
AS BUILT

DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_03.dwg Plotted by: mcampos on Dec 16, 2008 - 11:22:39



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.



SCALE: 1" = 20'

LEGEND

B# — BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N0°57'27"E	–	88.15'	–	–	–
B	90°00'00"	45.00'	70.69'	45.00'	6+42.15	7+12.84
C	N89°02'35"W	–	13.92'	–	–	–
D	–	–	–	–	–	–
E	–	–	–	–	–	–
F	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/09

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 7 & 7A

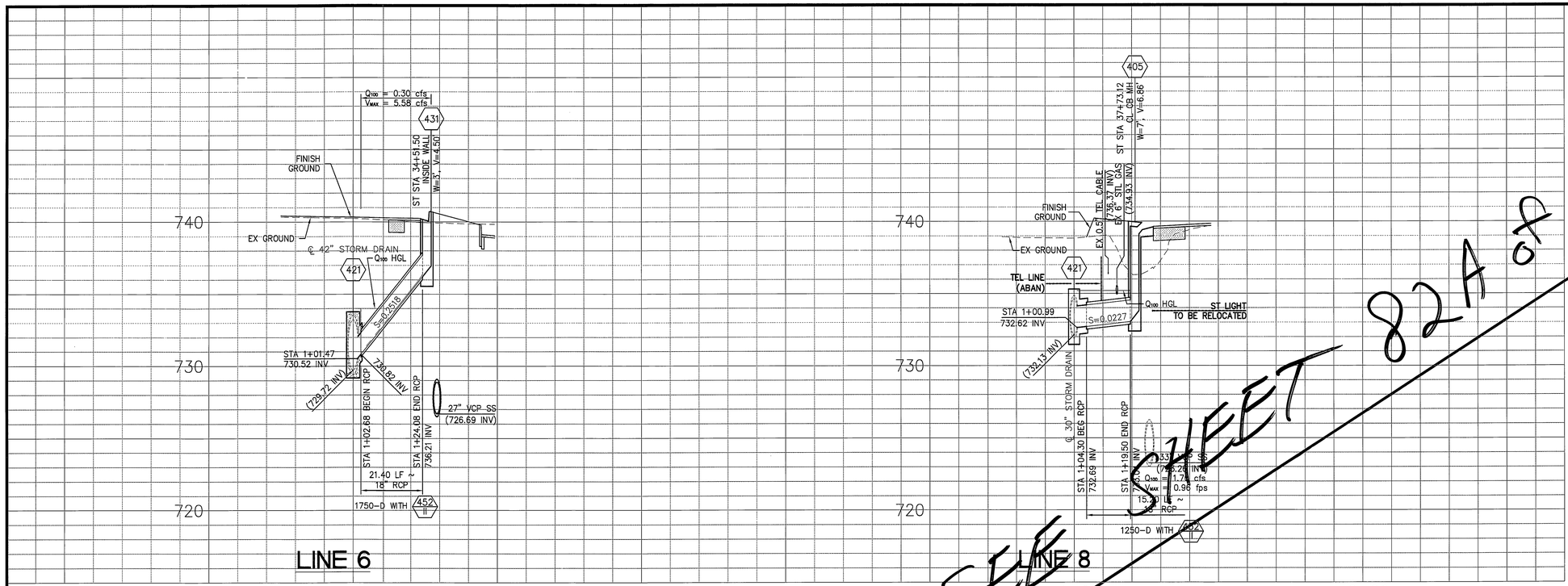
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

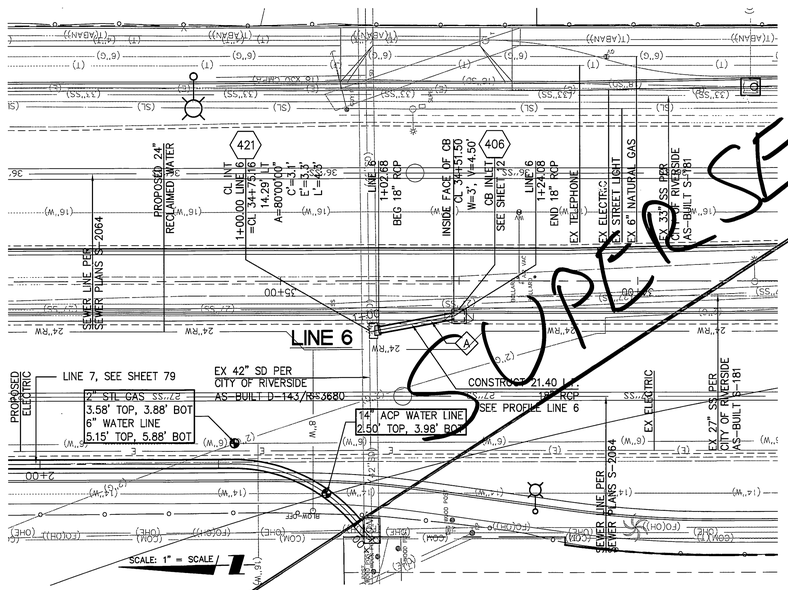
DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 81 OF 91
SD-04

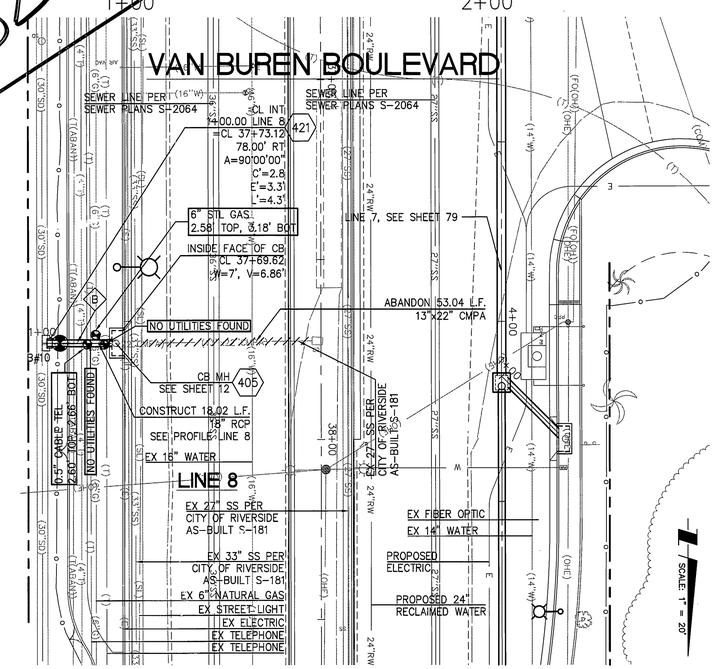
DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_04.dwg Plotted by: mcampos on Dec 16, 2008 - 11:23:40

ASBUILT





VAN BUREN BOULEVARD



SUPERSEDED — SEE SHEET 82A of 91

SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

LEGEND

B# — BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N9°42'37"W	–	21.40'	–	–	–
B	N89°02'41"	–	15.20'	–	–	–
C	–	–	–	–	–	–
D	–	–	–	–	–	–
E	–	–	–	–	–	–
F	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., RE # 64342, EXP 06/30/09

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA NO. 64342 EXP. 06/30/09 CIVIL STATE OF CALIFORNIA

DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

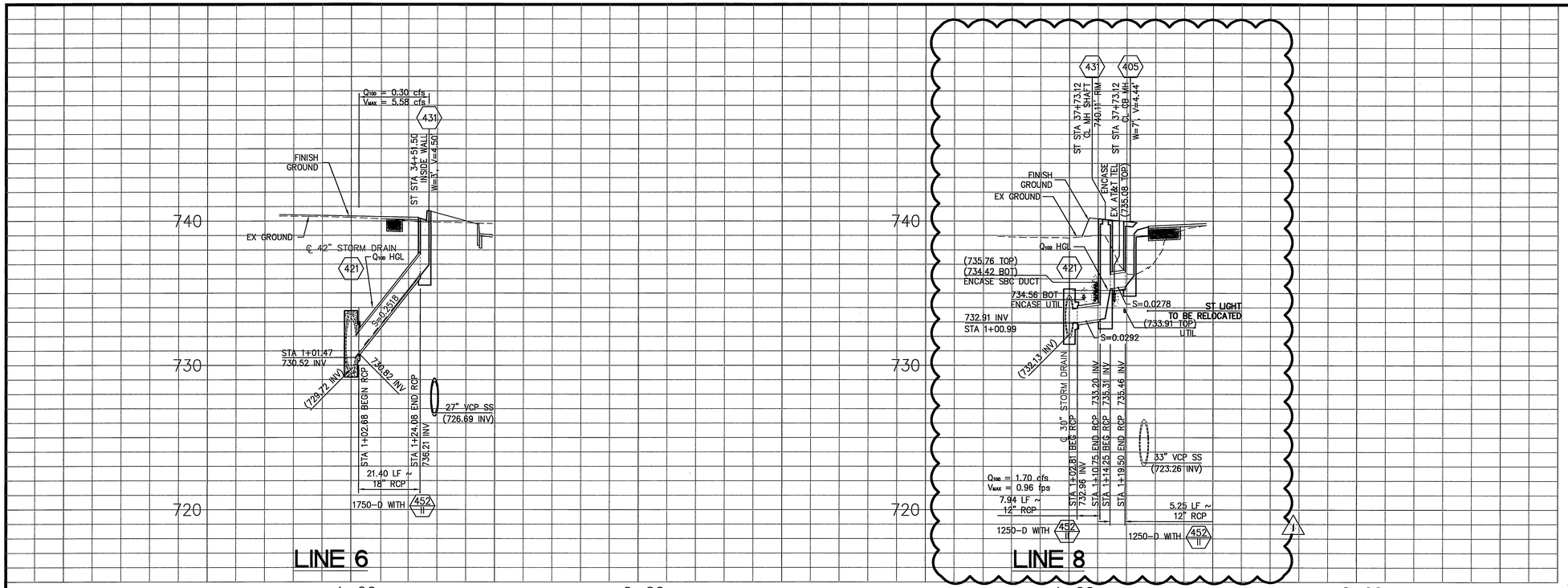
VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 6 & 8

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

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

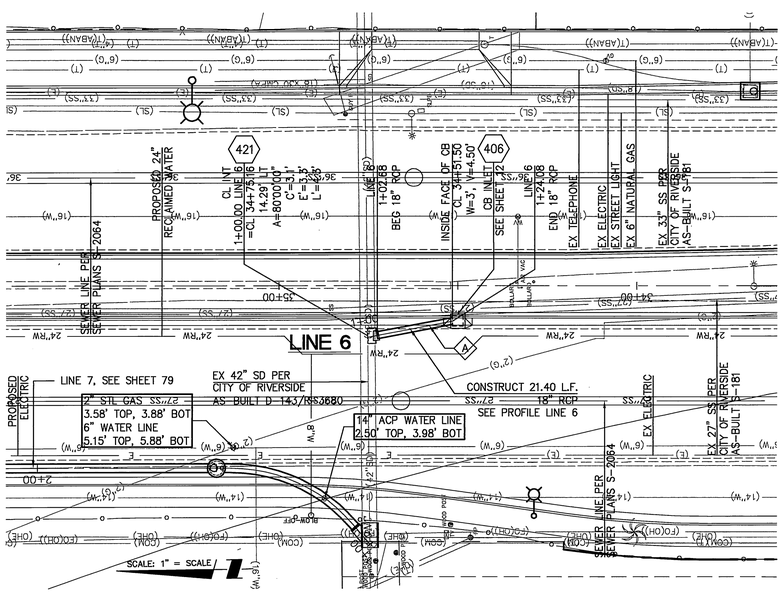
D-807
SHEET 82 OF 91
SD-05

DWG Name: M:\ZRIV03020\Engr\Plan Sheets\pl-SD_04A.dwg Plotted by: mcampos on Dec 16, 2008 - 11:24:36

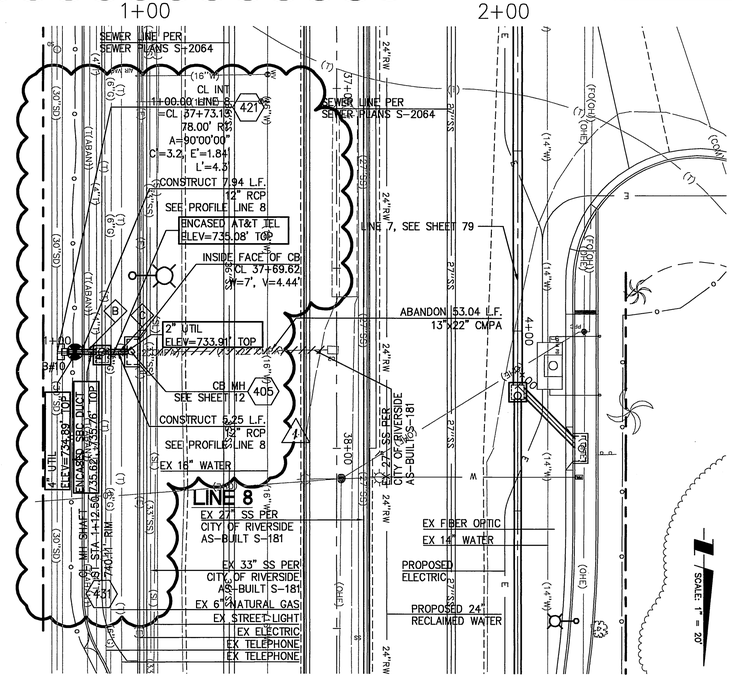


SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.



VAN BUREN BOULEVARD



VAN BUREN BOULEVARD

LEGEND

B#	BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)
	POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N9°42'37"W	–	21.40'	–	–	–
B	N89°02'41"	–	7.94'	–	–	–
C	N89°02'41"	–	5.25'	–	–	–
D	–	–	–	–	–	–
E	–	–	–	–	–	–
F	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free
811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92707
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/11
DATE Jul. 27, 09

MARK	REVISIONS	APPR.	DATE
1	REVISED SD LINES 5 & 8 FOR EXISTING UTILITIES	EL	8/4/09

DESIGNED BY STAFF DRAWN BY STAFF CHECKED BY MAV

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

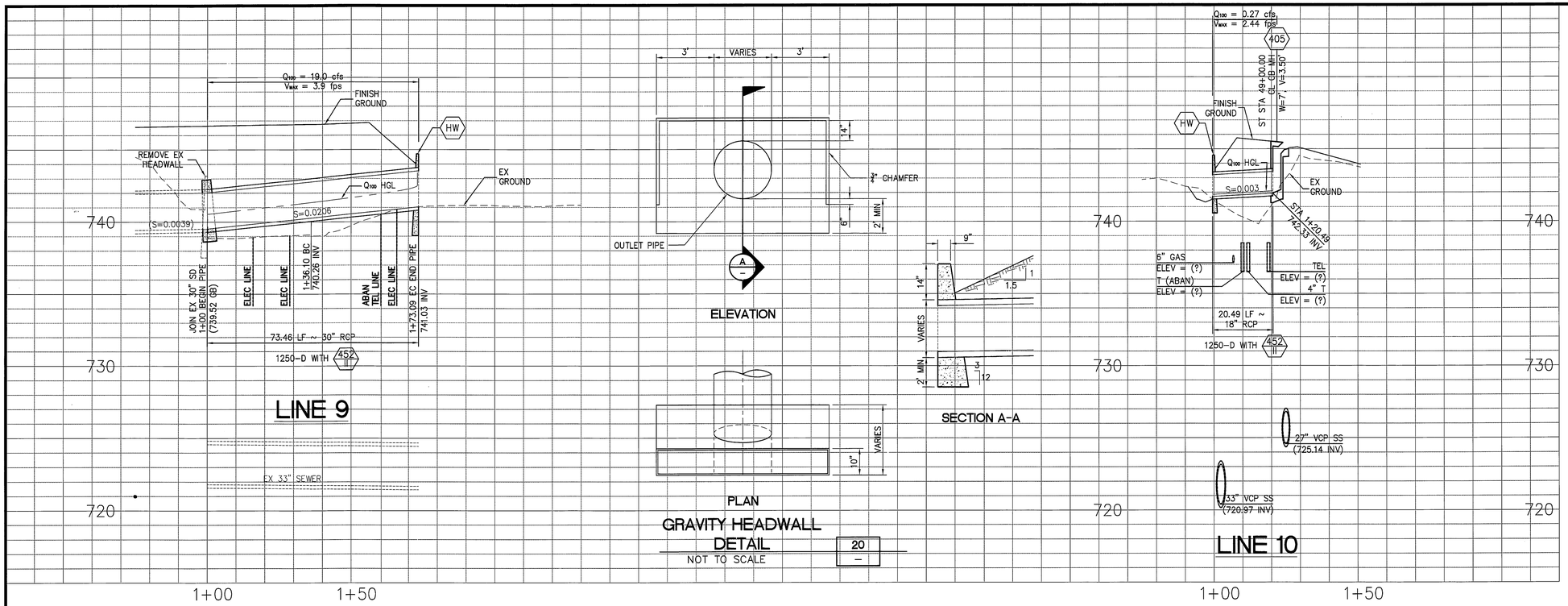
APPROVED BY
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 6 & 8
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376
D-807
SHEET 82A OF 91
SD-05

ASBUILT

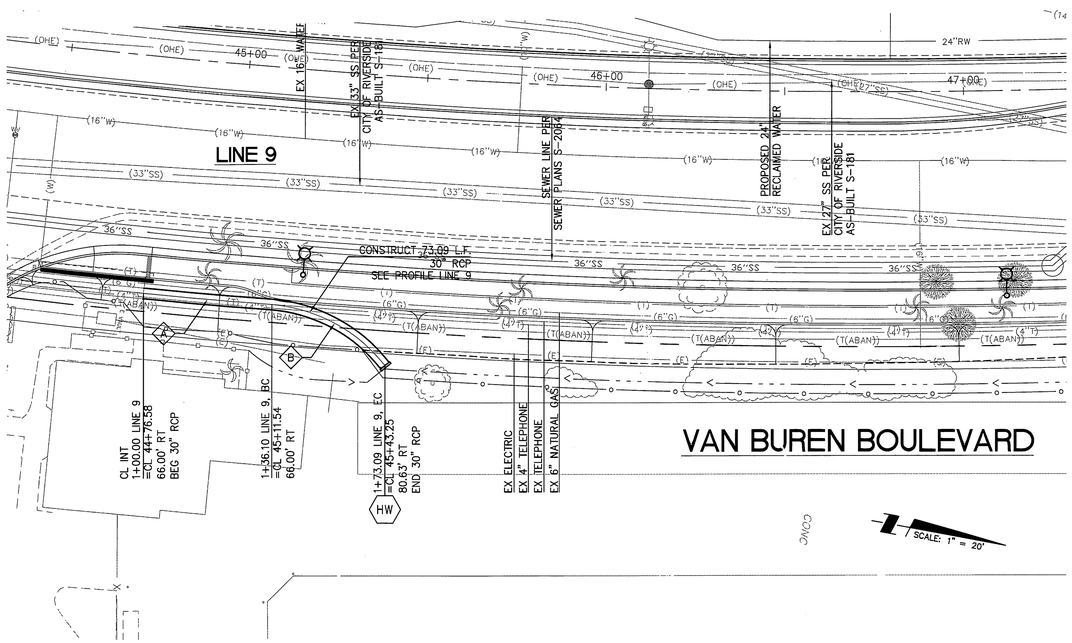
DWG Name: M:\2RIV030200\Eng\Plan Sheets\pl-SD_04A.dwg Plotted by: mcampos on Aug 10, 2009 - 13:00:12

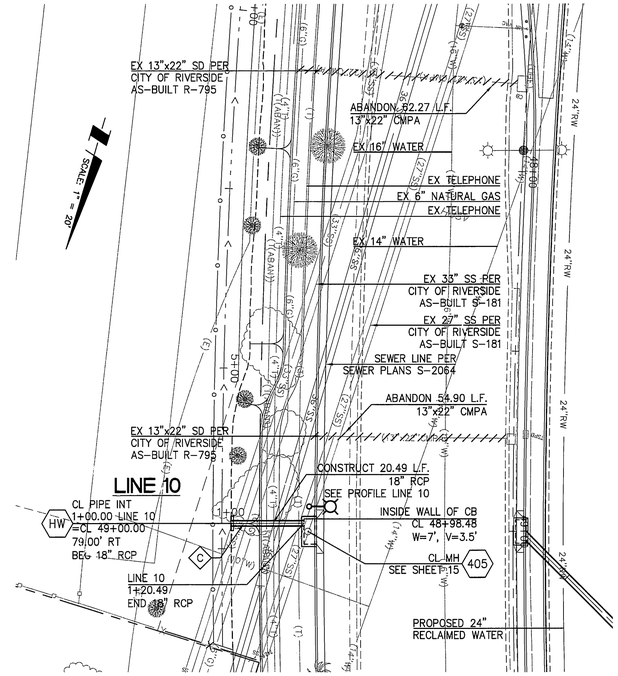


SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

(HW) CONSTRUCT HEADWALL PER DETAIL 20 ON SHEET 83.





LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N5°05'58"W	–	36.10'	–	–	–
B	47°05'57"	45.00'	36.99'	19.61'	1+36.10	1+73.09
C	N37°07'18"E	–	20.49'	–	–	–
D	–	–	–	–	–	–
E	–	–	–	–	–	–
F	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
BURIED CABLE
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/09

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

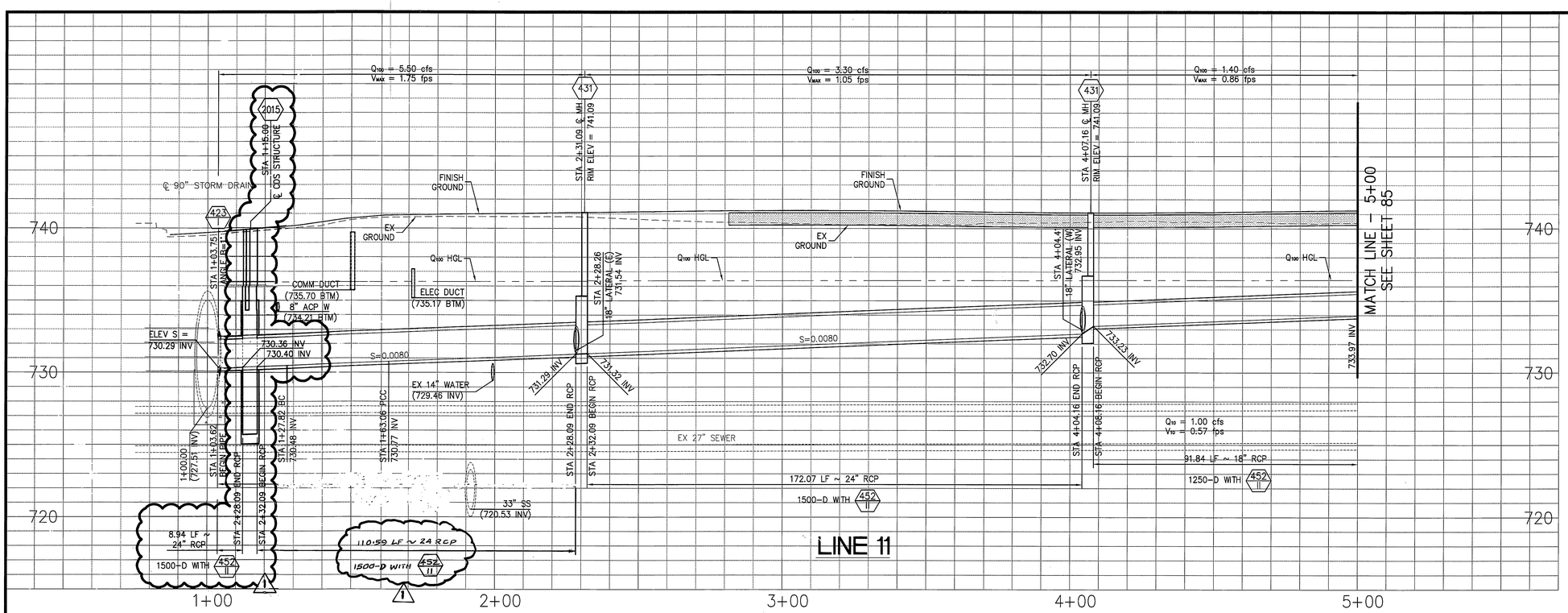
APPROVED BY APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 9 & 10
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376
D-807
SHEET 83 OF 91
SD-06

ASBUILT

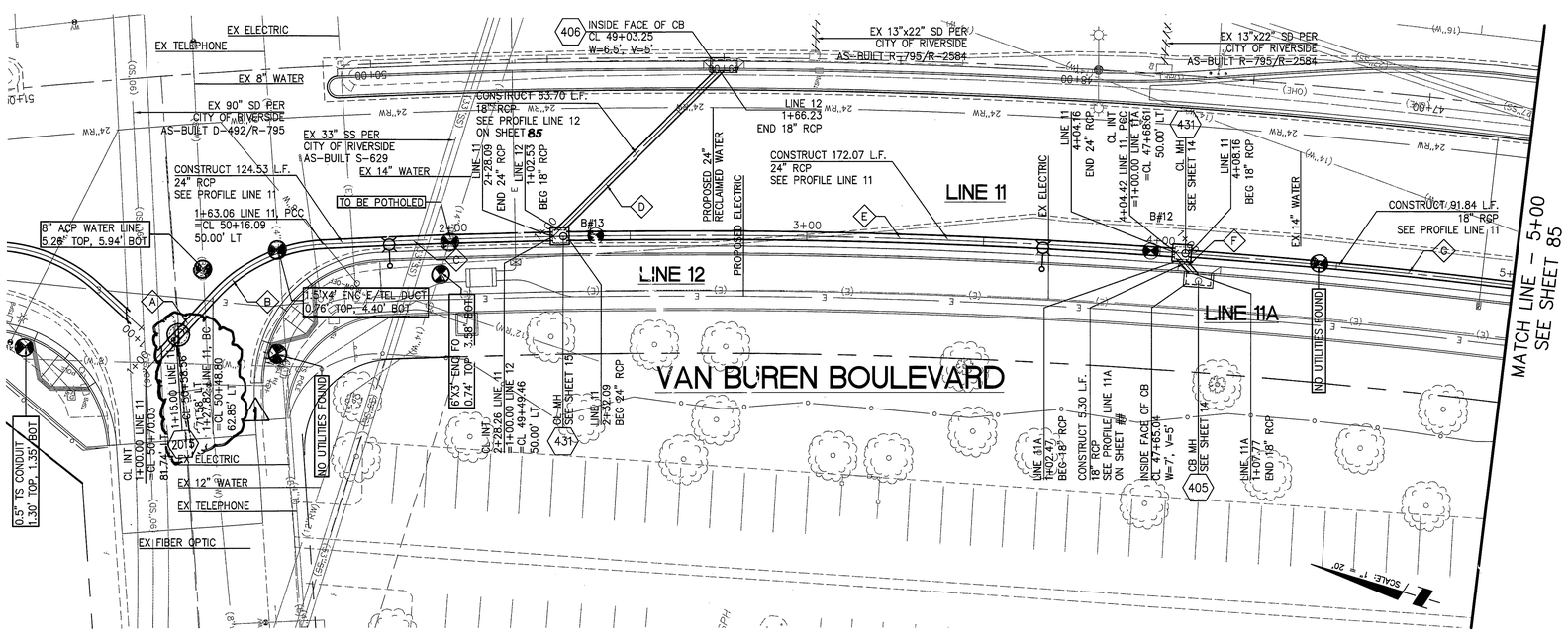
DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_11.dwg Plotted by: mcampos on Dec 16, 2008 - 11:25:49



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

2015 FURNISH AND INSTALL HYDRODYNAMIC SEPARATION UNIT MODEL CDS2015 BY CONTECH (562) 733-0733 OR APPROVED EQUIVALENT.



MORRIS STREET

LEGEND

B# BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N64°07'50"W	–	21.73'	–	–	–
B	44°52'20"	45.00'	35.24'	18.58'	1+27.82	1+63.06
C	1°53'16"	1961.89'	65.02'	32.52'	1+63.06	2+28.09
D	N61°56'13"W	–	63.70'	–	–	–
E	5°07'32"	1971.12'	176.33'	88.22'	2+32.09	4+04.16
F	N32°04'47"E	–	5.30'	–	–	–
G	6°45'38"	1968.92'	91.84'	116.29	4+08.16	5+00.00

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811 FOR THE LOCATION OF BURIED UTILITY LINES. DON'T DISRUPT VITAL SERVICES.

TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:

LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3

ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VILLENGIA, P.E., PE # 64342, EXP 06/30/09
DATE Dec. 15, 08

REGISTERED PROFESSIONAL ENGINEER MARK A. VILLENGIA No. C 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	HYDRODYNAMIC SEPARATION UNITES	C.L.	7/2/09

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY APPROVED AS PART OF R-3985
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEM 11

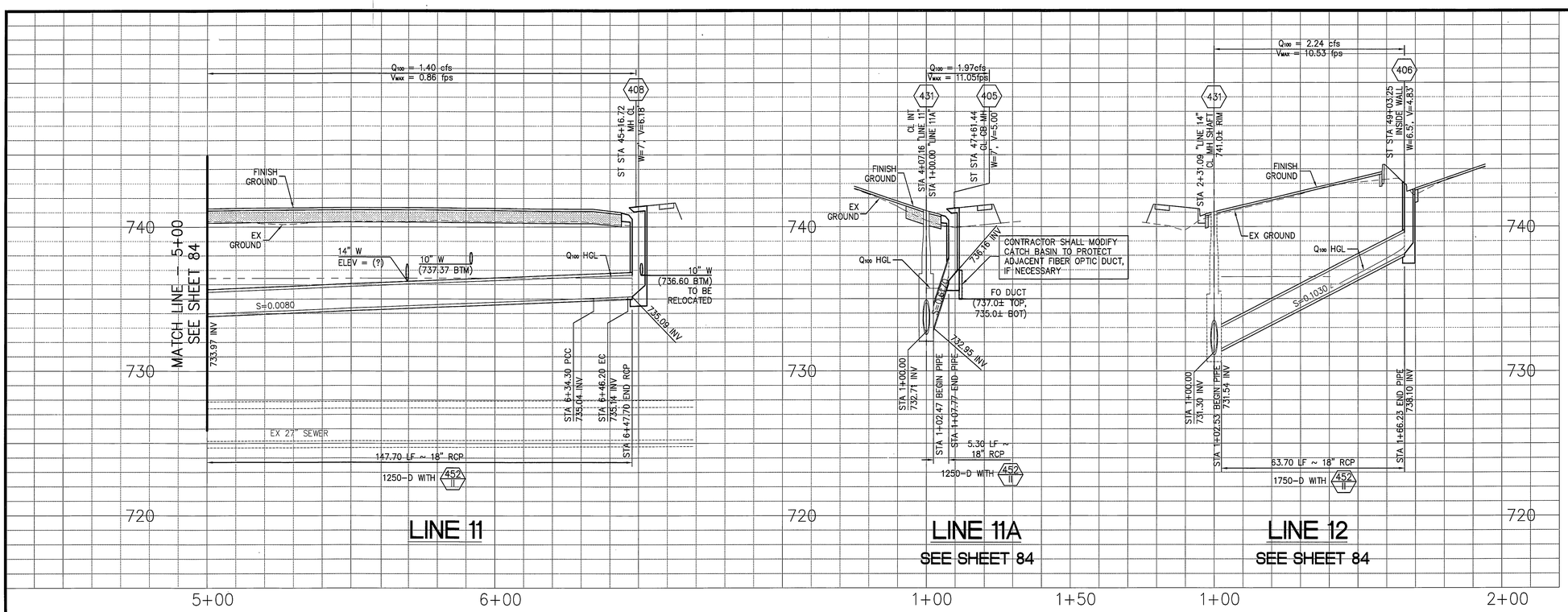
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 84 OF 91
SD-07

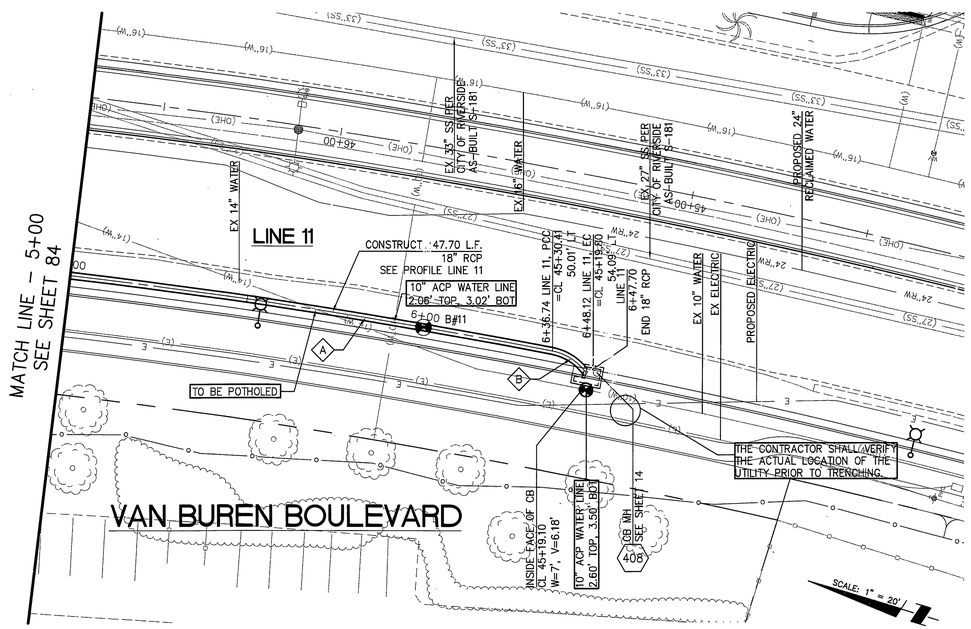
ASBUILT

DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_05.dwg Plotted by: jesse.kaltenberg on Dec 16, 2008 - 13:32:19



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.



LEGEND

B#	BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)
	POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	6°45'38"	1968.92	136.74'	116.29'	5+00.00	6+36.74
B	43°28'35"	15.00'	11.38'	5.98'	6+36.74	6+48.12
C	–	–	–	–	–	–
D	–	–	–	–	–	–
E	–	–	–	–	–	–
F	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE# 64342, EXP 06/30/09
DATE Dec. 15, 08

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 11, 11A, & 12

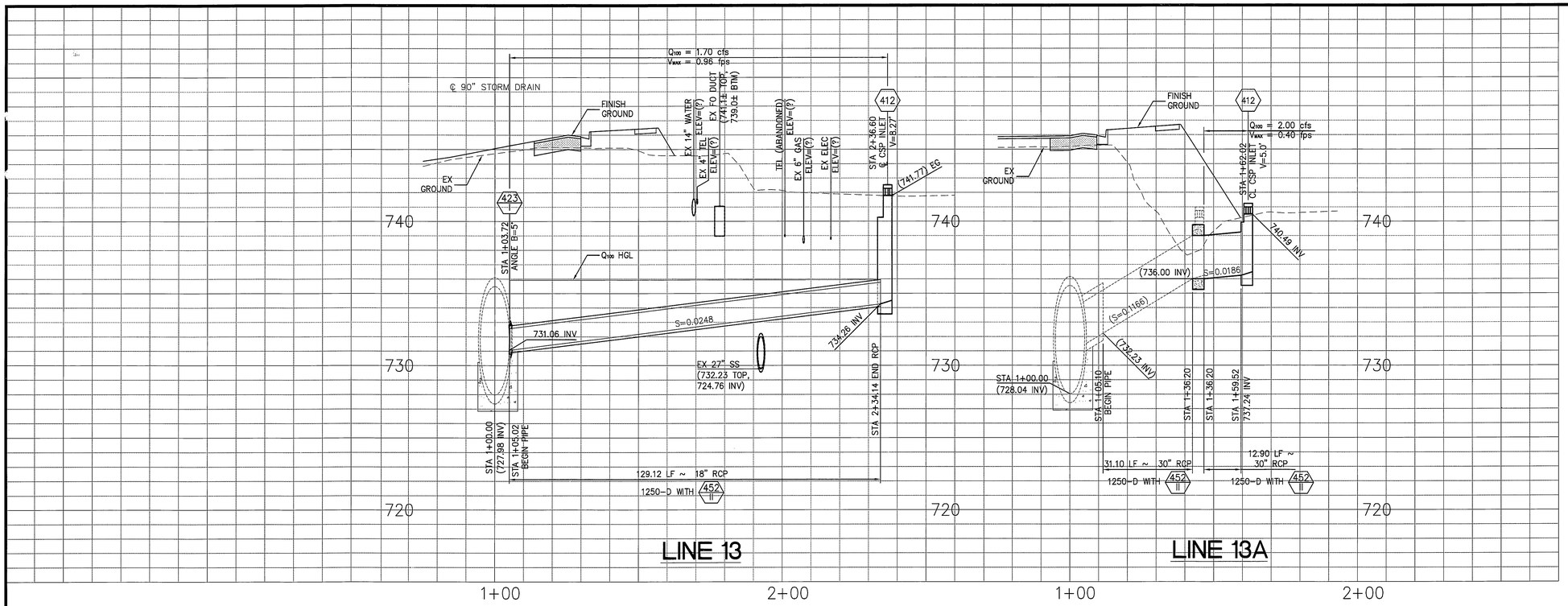
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 85 OF 91
SD-08

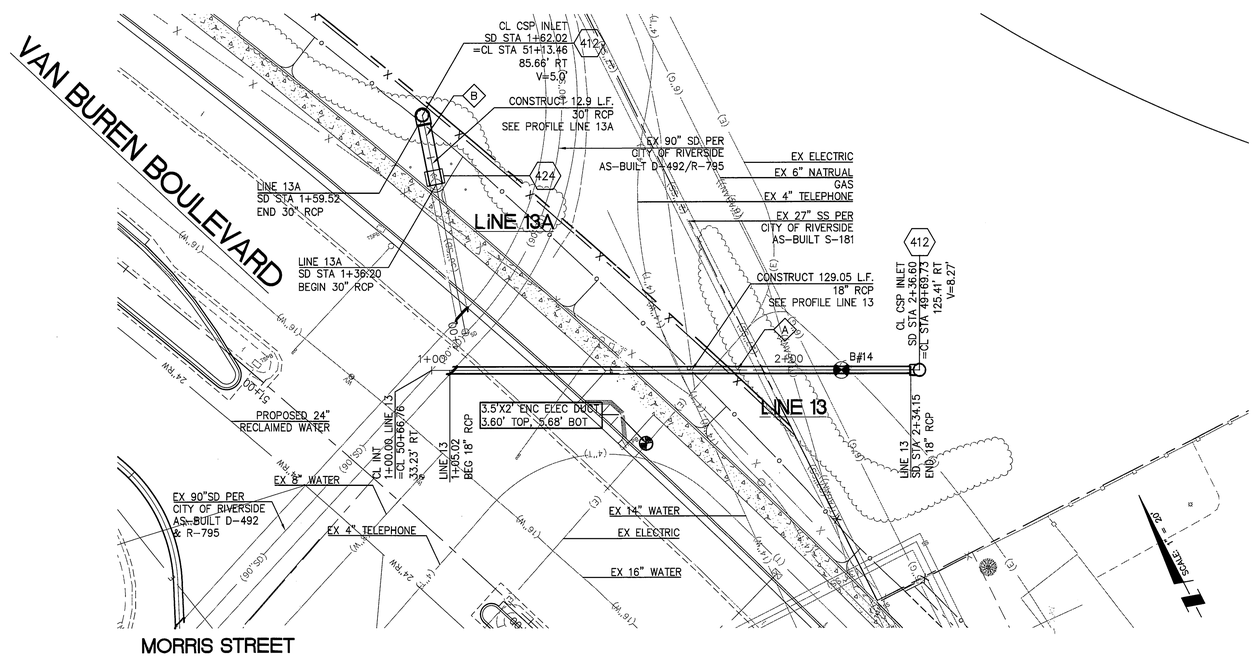
ASBUILT

DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_06.dwg Plotted by: mcampos on Dec 16, 2008 - 11:27:59



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.



LEGEND

B#	BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)
	POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N62°37'08"W	–	130.60'	–	–	–
B	N16°05'08"E	–	12.90'	–	–	–
C	–	–	–	–	–	–
D	–	–	–	–	–	–
E	–	–	–	–	–	–
F	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE# 64342, EXP 06/30/09

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA
DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 13 & 13A

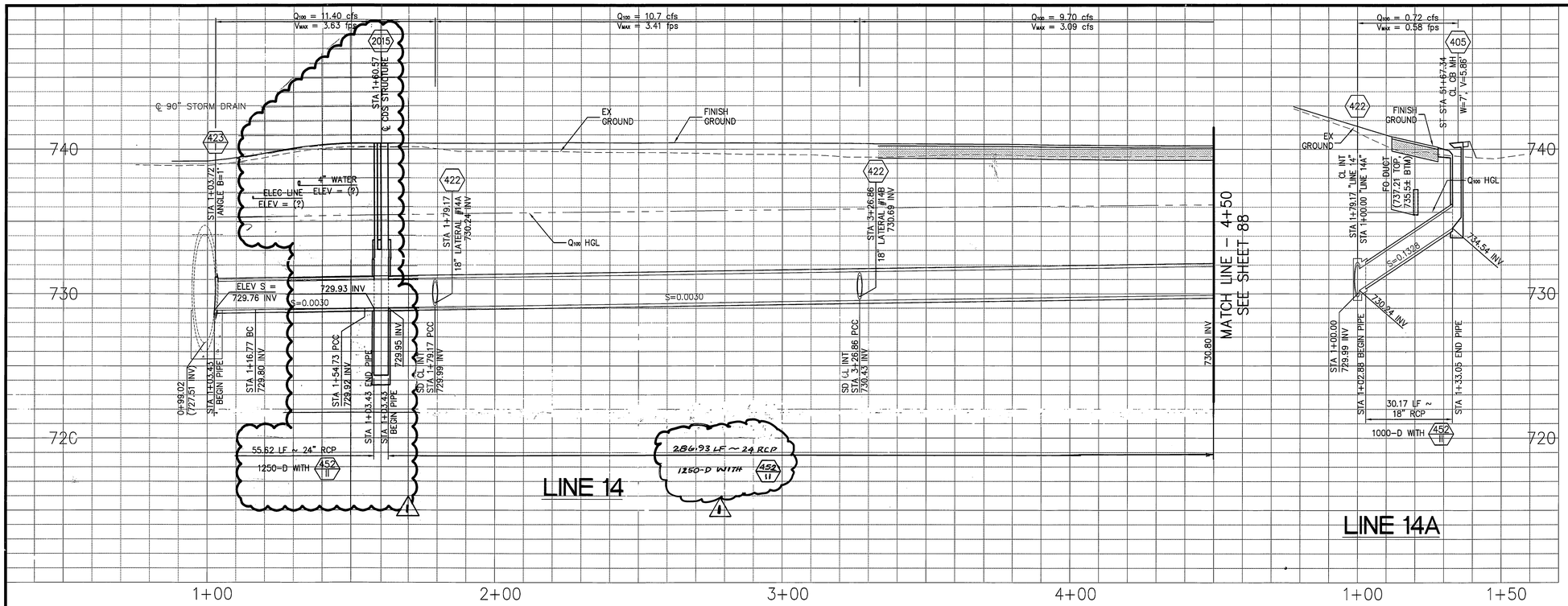
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 86 OF 91
SD-09

ASBUILT

DWG Name: M:\2R1V03200\Engr\Plan Sheets\pl-SD_13.dwg Plotted by: jesse.kaltenberg on Dec 16, 2008 - 13:33:08

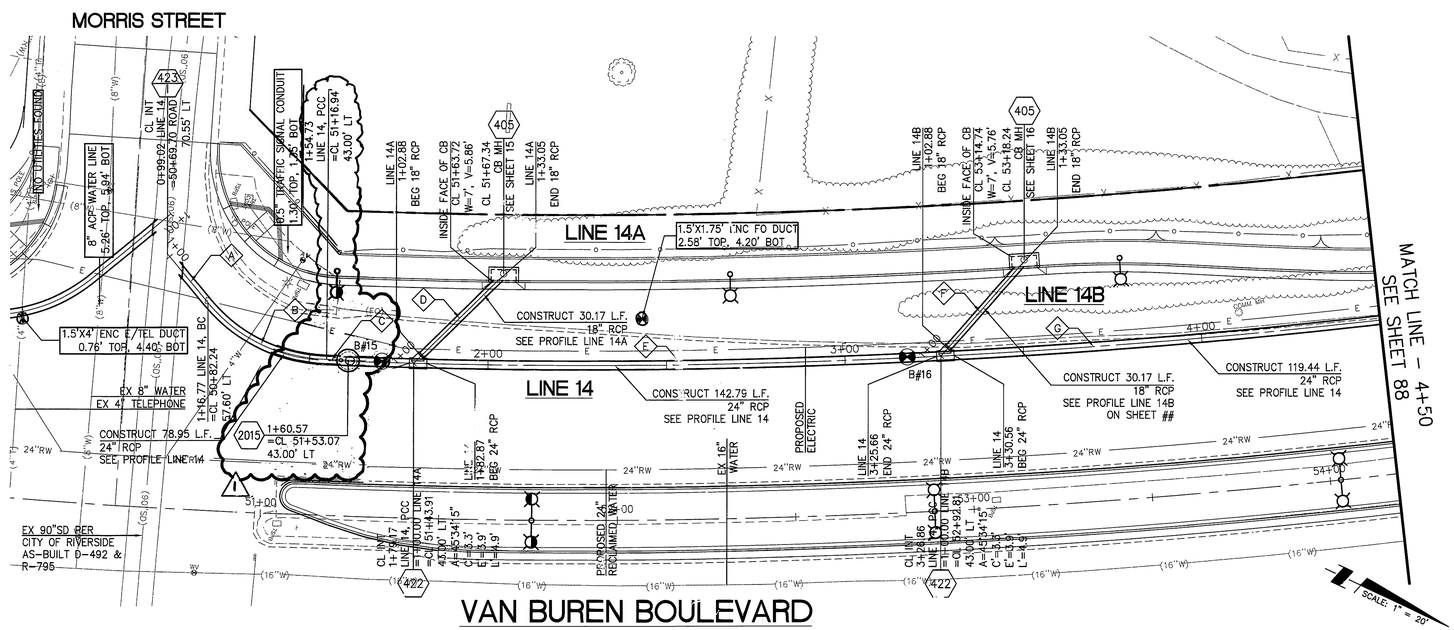


SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

423 I CONSTRUCT JUNCTION STRUCTION NO. 4, CASE I, PER RCFC&WCD STD DWG JS229.

2015 FURNISH AND INSTALL HYDRODYNAMIC SEPARATION UNIT MODEL CDS2015 BY CONTECH (562) 733-0733 OR APPROVED EQUIVALENT. 1



LEGEND

B# BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N24°59'44"E	–	9.77'	–	–	–
B	48°20'08"	45.00'	37.96'	20.19'	1+16.77	1+54.73
C	0°49'50"	1685.99'	23.24'	12.22'	1+54.73	1+77.97
D	N69°22'21"W	–	27.37'	–	–	–
E	4°16'20"	1980.75'	142.79'	73.88'	1+82.87	3+25.66
F	N73°38'46"E	–	27.37'	–	–	–
G	4°00'07"	1979.54'	119.44'	69.16'	3+30.56	4+50.00

20' 10' 0' 20' 40'

GRAPHIC SCALE

Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811

FOR THE LOCATION OF BURIED UTILITY LINES.

DON'T DISRUPT VITAL SERVICES.

TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:

LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3

ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/09

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE
1	HYDRODYNAMIC SEPARATION UNITES	E.L.	7/7/09

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED AS AMENDED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING

STORM DRAIN IMPROVEMENTS SYSTEMS 14 & 14A

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

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

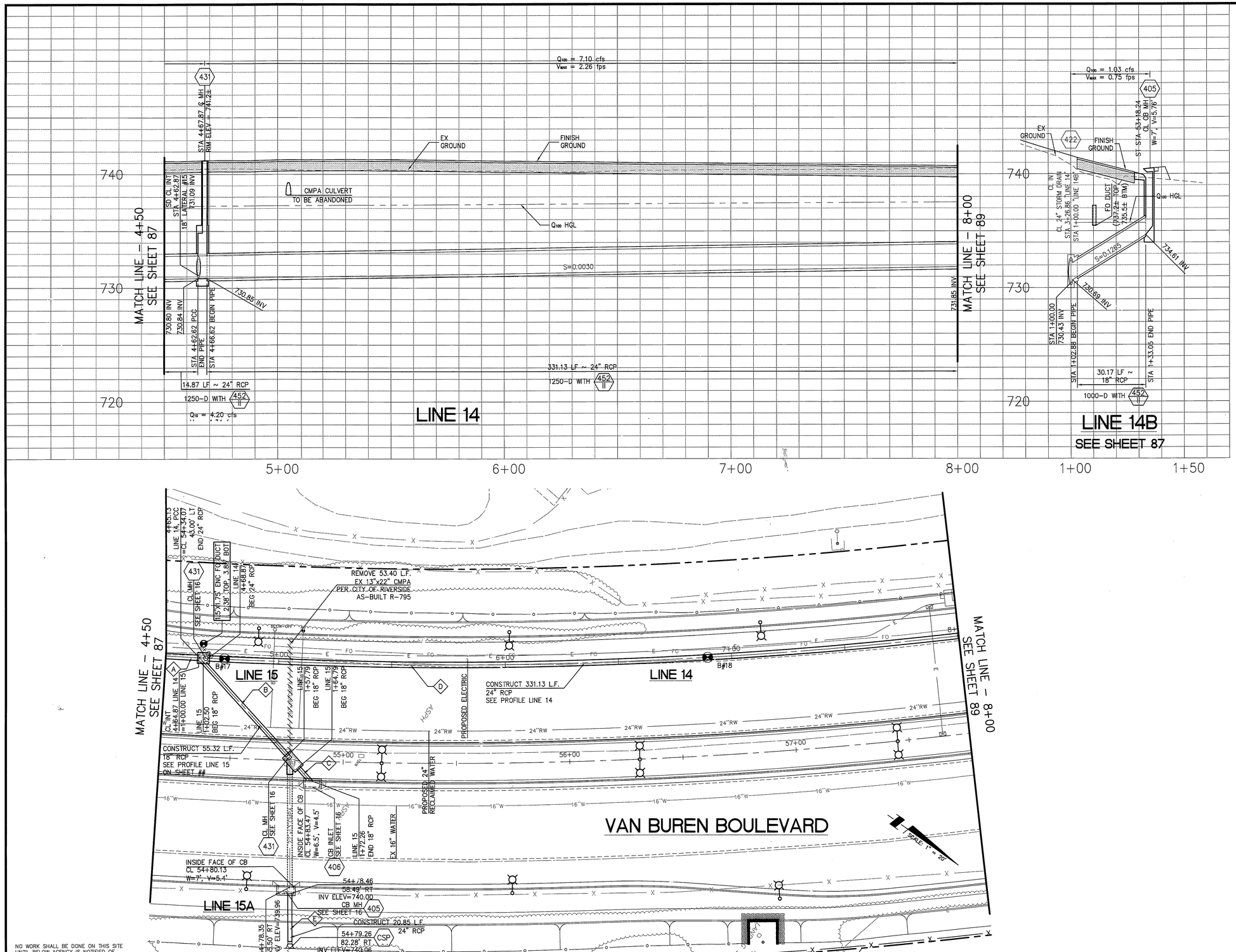
D-807

SHEET 87 OF 91

SD-10

ASBUILT

DWG Name: M:\2RIV0302\00\Eng\Plan Sheets\pl-SD_07.dwg Plotted by: mcampos on Dec 16, 2008 - 11:30:15



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

CSP CONSTRUCT CSP FLARED INLET PER SPPWC STANDARD PLAN 351, CASE 2.

LEGEND

B# BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	4°00'07"	1979.54'	15.13'	69.16'	4+50.00	4+65.13
B	N12°33'37"E	–	55.32'	–	–	–
C	N12°33'37"E	–	7.46'	–	–	–
D	11°11'05"	1980.61'	331.12'	193.87'	4+68.88	8+00.00
E	N54°47'40"E	–	20.85'	–	–	–
F	–	–	–	–	–	–
G	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/09
DATE Dec. 15, 08
REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY: APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 14, 14B, 15, & 15A

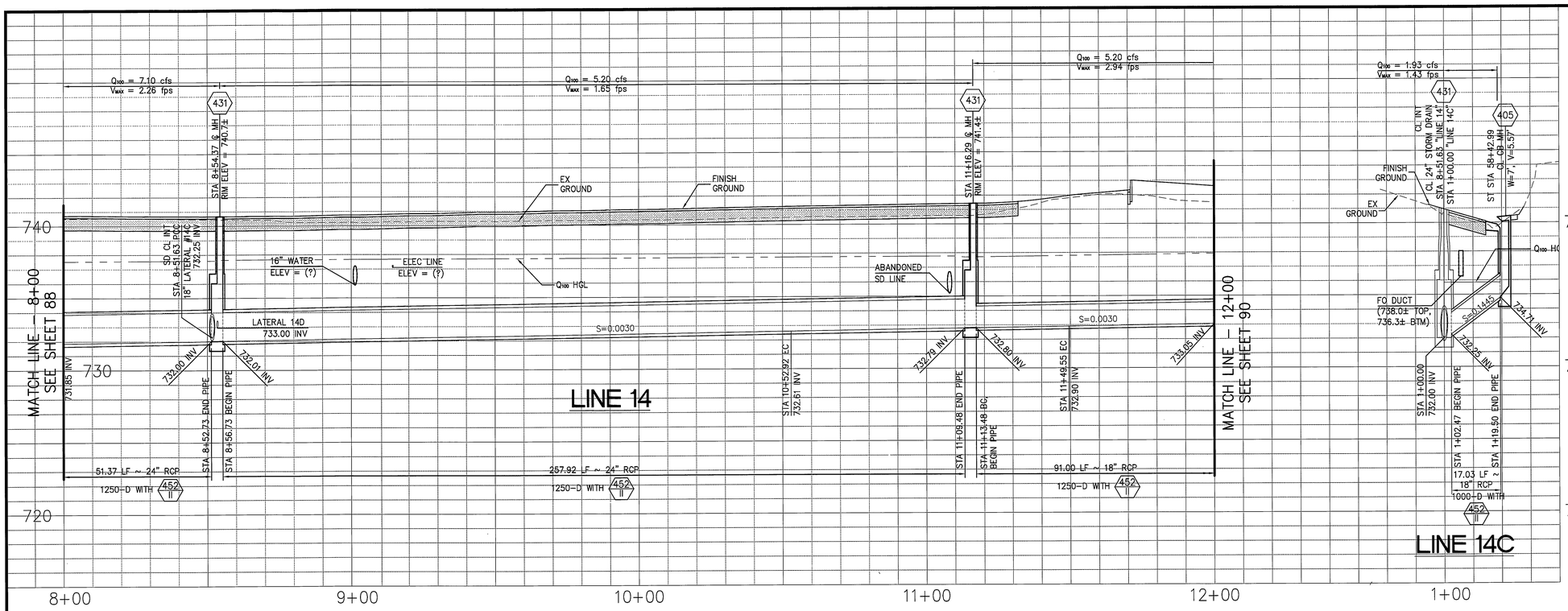
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 88 OF 91
SD-11

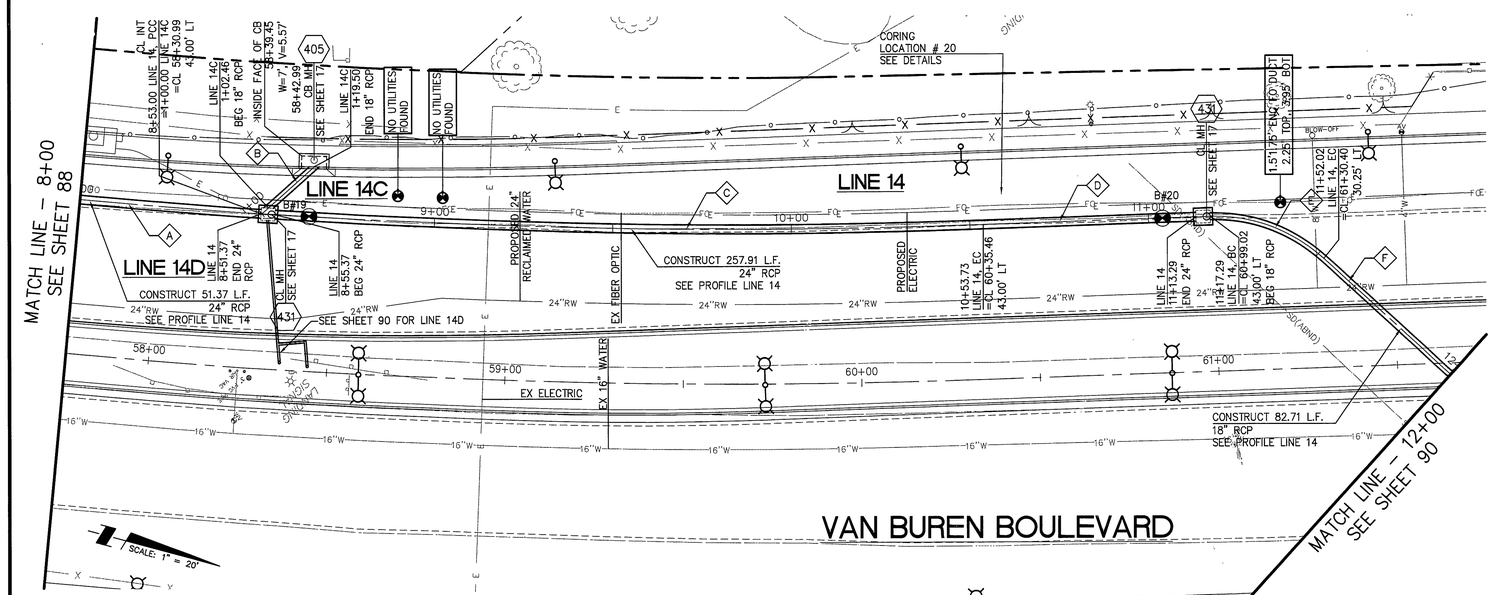
ASBUILT

DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_08.dwg Plotted by: mcampos on Dec 16, 2008 – 11:31:12



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.



LEGEND

B#	BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)
	POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	11°11'05"	1979.94'	51.37'	193.87'	8+00.00	8+51.37
B	N88°31'31"W	–	17.04'	–	–	–
C	5°50'53"	1980.00'	198.36'	101.14'	8+55.37	10+53.73
D	N49°00'12"W	–	59.55'	–	–	–
E	44°13'20"	45.00'	34.73'	18.28'	11+17.29	11+52.02
F	N4°46'53"W	–	47.98'	–	–	–
–	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free
811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., RCE # 64342, EXP 06/30/09
DATE Dec. 15, 08

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 14 & 14C

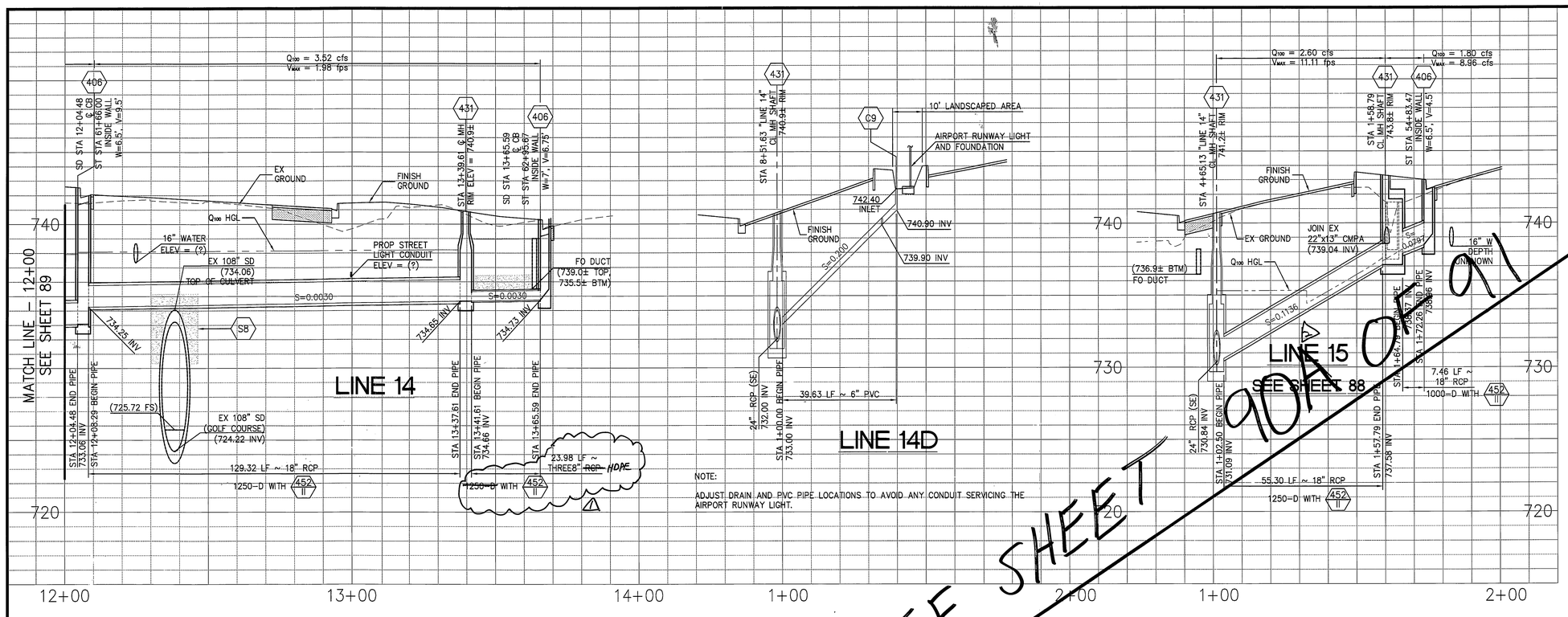
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 89 OF 91
SD-12

ASBUILT

DWG Name: M:\ZRIV030200\Engr\Plan Sheets\pl-SD_09.dwg Plotted by: mcampos on Dec 16, 2008 – 11:32:14



NOTE:

ADJUST DRAIN AND PVC PIPE LOCATIONS TO AVOID ANY CONDUIT SERVICING THE AIRPORT RUNWAY LIGHT.

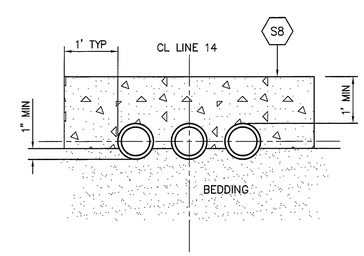
SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

(S8) BACKFILL WITH 1½ SACK SLURRY.

(C9) INSTALL 6" PVC DRAIN PIPES WITH NDS #80 FLAT TOP STRUCTURAL FOAM POLYOLEFIN ATRIUM GRATE, OR APPROVED EQUAL.

SUPERSEDED - SEE SHEET 90A of 91



SECTION B-B

USE CASE I, STD. 452

LEGEND

- B# — BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)
- POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N4°46'53"W	–	4.48'	–	–	–
B	N9°51'16"W	–	129.32'	–	–	–
C	N38°17'01"E	–	39.63'	–	–	–
D	–	–	–	–	–	–
E	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:

LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3

ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
310 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/09

REGISTERED PROFESSIONAL ENGINEER — MARK A. VERRENGIA — No. 64342 — Exp. 06/30/09 — CIVIL — STATE OF CALIFORNIA

DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE
2	SUPERSEDED - SEE SHEET 90A of 91	EC	2/10/09
1	REVISED 8" PIPE TYPE PER ADDENDUM NO. 2	MAV	2/26/09

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SUPERVISOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING

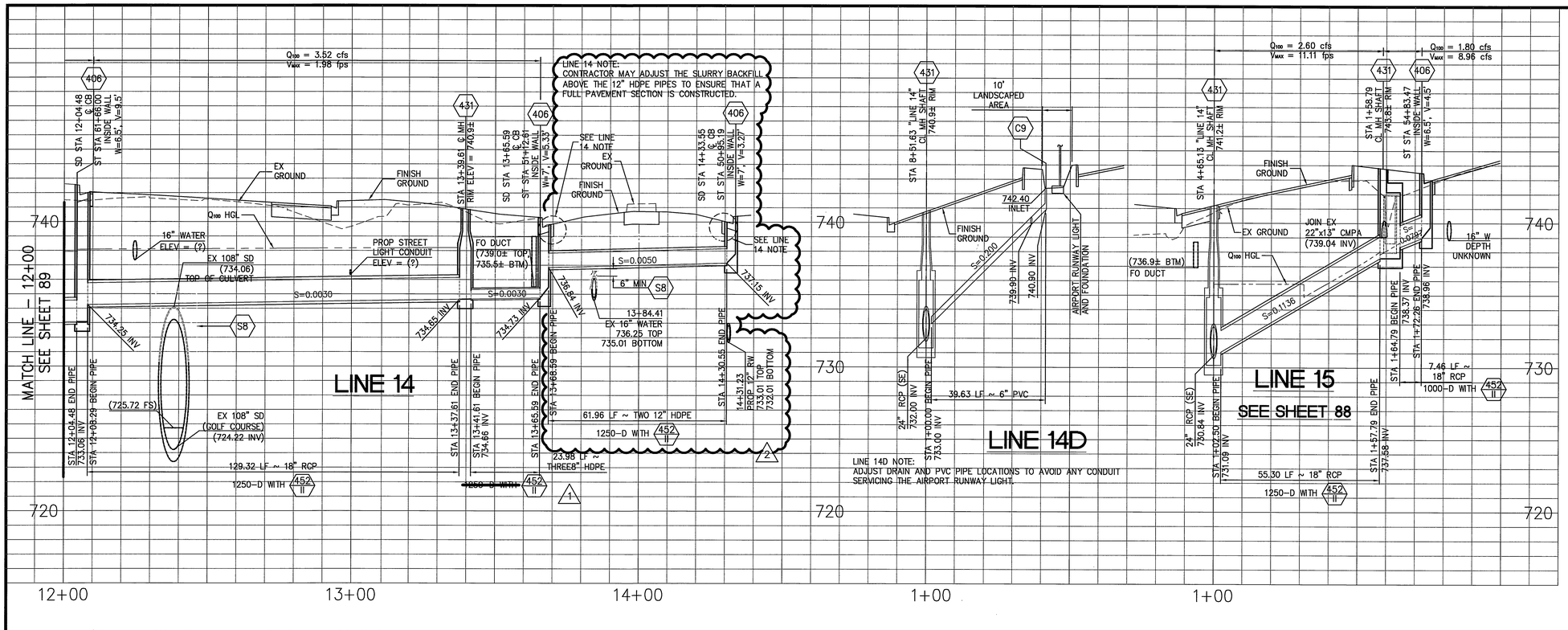
STORM DRAIN IMPROVEMENTS SYSTEMS 14, 14D & 15

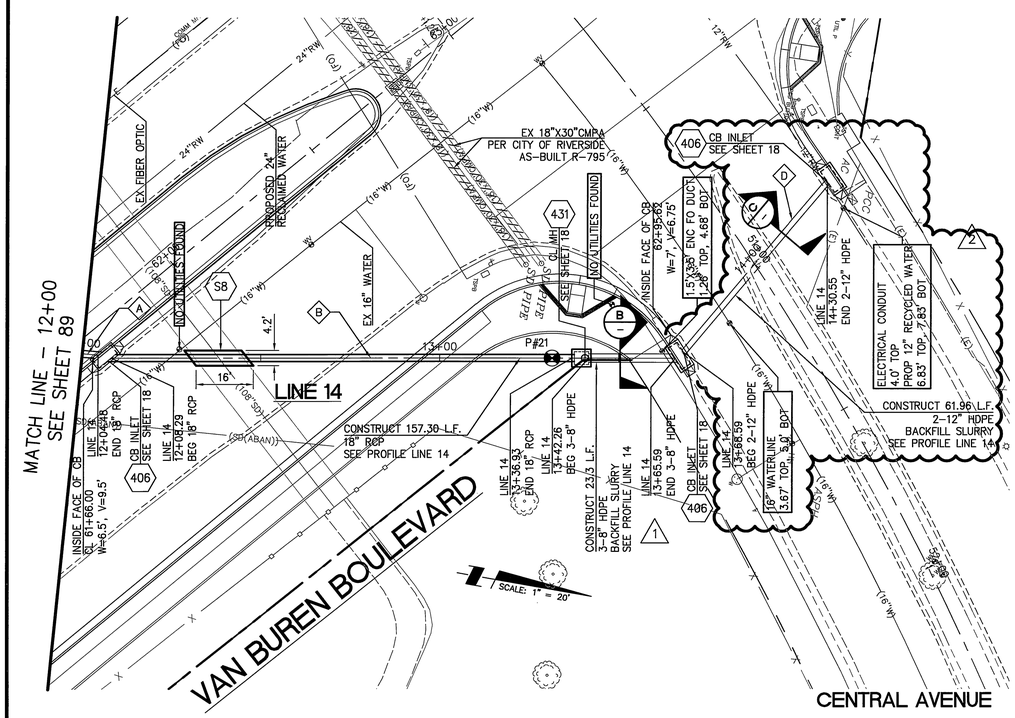
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

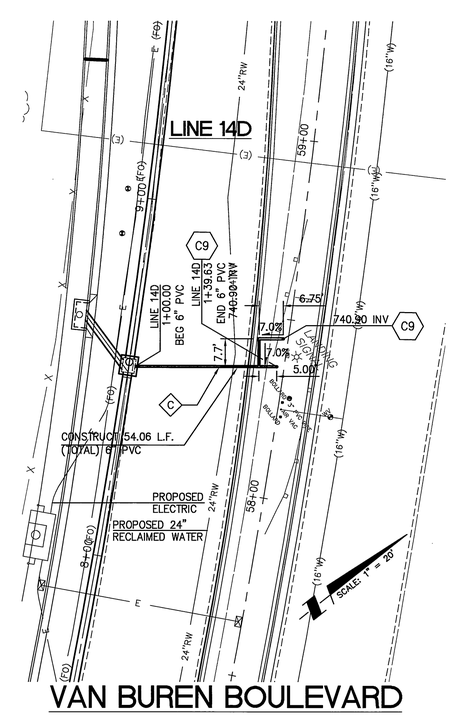
DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 90 OF 91
SD-13

CWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_10.dwg Plotted by: jesse.kaltenberg on Dec 16, 2008 - 13:33:57





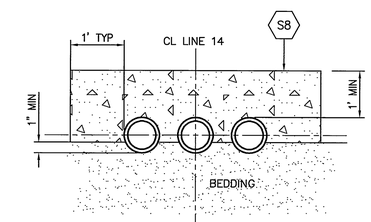


SPECIFIC CONSTRUCTION NOTES:

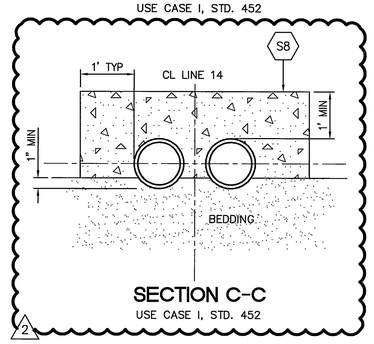
1. EXISTING UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.

(S8) BACKFILL WITH 1½ SACK SLURRY.

(C9) INSTALL 6" PVC DRAIN PIPES WITH NDS #80 FLAT TOP STRUCTURAL FOAM POLYOLEFIN ATRIUM GRATE, OR APPROVED EQUAL.



SECTION B-B
USE CASE I, STD. 452



SECTION C-C
USE CASE I, STD. 452

LEGEND

B# — BORING NUMBER (SEE SPECIFICATIONS FOR BORING DATA)

POTHOLE INFORMATION AND LOCATION

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N4°46'53"W	–	4.48'	–	–	–
B	N9°51'16"W	–	129.32'	–	–	–
C	N38°17'01"E	–	39.63'	–	–	–
2 D	N59°28'35"W	–	61.96'	–	–	–
E	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:
LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3–V3
ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3 Hutton Centre Drive, Suite 200
Santa Ana, CA 92707
(714) 751–7373 Fax (714) 545–8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., PE # 64342, EXP 06/30/11
DATE Aug. 13, 09

REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
2	ADDED STORM DRAIN LINE 14 EXTENSION	MAV	2/02/10
1	REVISED 8" PIPE TYPE PER ADDENDUM NO. 2	MAV	2/26/09

DESIGNED BY STAFF DRAWN BY STAFF CHECKED BY MAV

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 14, 14D & 15

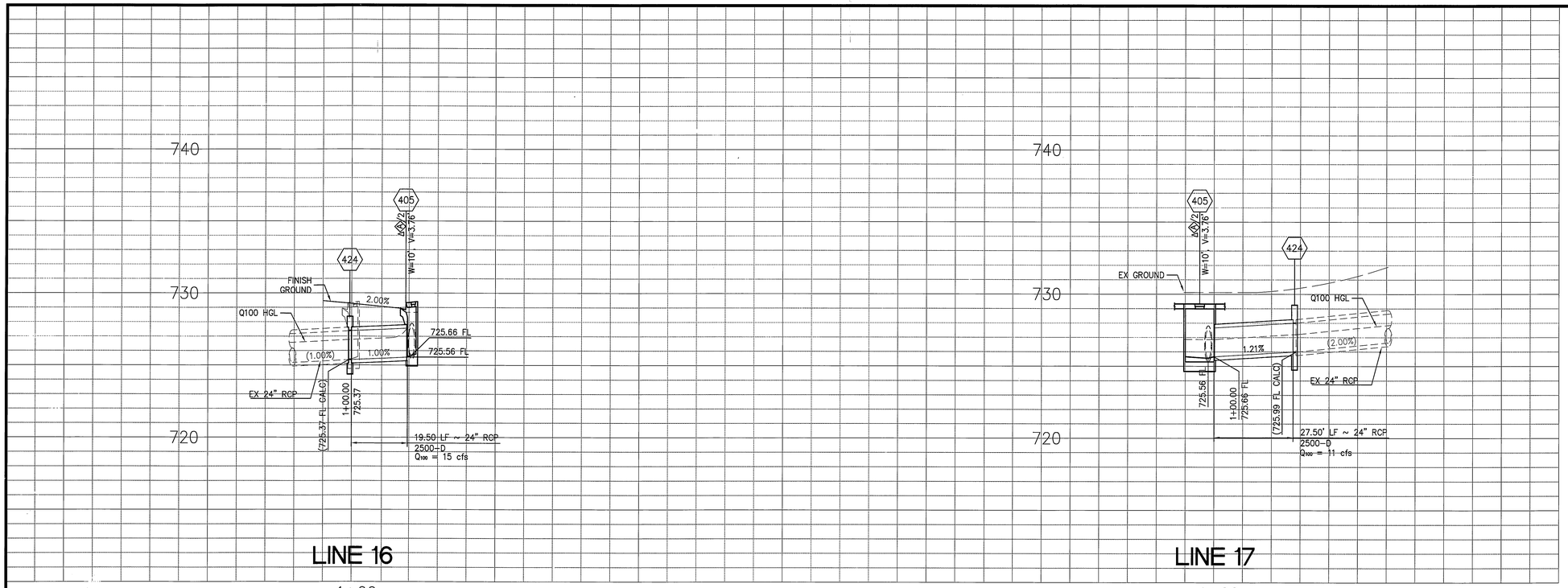
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D–807
SHEET 90A OF 91
SD–13

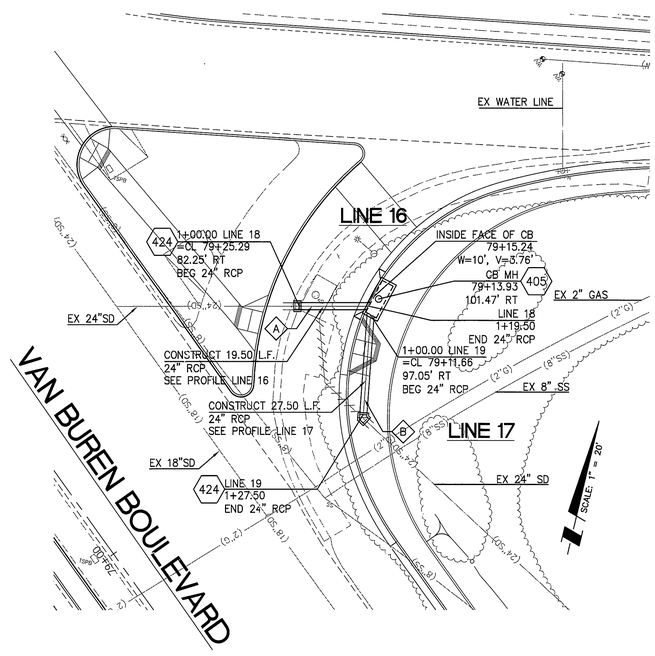
ASBUILT

DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_10.dwg Plotted by: grobison on Feb 04, 2010 – 9:07:26



SPECIFIC CONSTRUCTION NOTES:

1. EXISTING UTILITIES SHOWN ON THESE PLANS 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 THESE PLANS. IF THE COVER OF AN UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. WHEN AN UTILITY IS SHOWN WITH A (?) IN THE PROFILE VIEW, IT MEANS THE DEPTH OF THE UTILITY IS NOT KNOWN, BUT THE UTILITY IS NOT EXPECTED TO BE IN DIRECT CONFLICT WITH THE VERTICAL LOCATION OF THE PROPOSED PIPELINE CONTEMPLATED HEREIN. FOR ALL SUCH UTILITIES, THE COTNRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THE UTILITY PRIOR TO TRENCHING.



LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT	BC	EC
A	N76°50'43"E	–	19.50'	–	–	–
B	N08°59'22"W	–	27.50'	–	–	–
C	–	–	–	–	–	–
D	–	–	–	–	–	–
E	–	–	–	–	–	–
F	–	–	–	–	–	–

20' 10' 0' 20' 40'
GRAPHIC SCALE
Note: For reduced sized prints, original scale is in inches

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free
811
FOR THE LOCATION OF BURIED UTILITY LINES.
DON'T DISRUPT VITAL SERVICES.
BURIED CABLE
TWO WORKING DAYS BEFORE YOU DIG

NOTE TO CONTRACTOR:

LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

BENCHMARK NO. : G3-V3

ELEV.: 732.825
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:
PSOMAS
3187 Red Hill Avenue, Suite 250
Costa Mesa, CA 92626
(714) 751-7373 Fax (714) 545-8883
UNDER THE DIRECT SUPERVISION OF:
MARK VERRENGIA, P.E., # 64342, EXP 06/30/09
REGISTERED PROFESSIONAL ENGINEER MARK A. VERRENGIA No. 64342 Exp. 06/30/09 CIVIL STATE OF CALIFORNIA

DATE Dec. 15, 08

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MAV DRAWN BY STAFF CHECKED BY TMH

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED BY APPROVED AS PART OF R-3965
CITY ENGINEER
DATE

VAN BUREN BOULEVARD WIDENING
STORM DRAIN IMPROVEMENTS SYSTEMS 16 & 17

DESIGN W.O. NO. 0501889
CONSTRUCTION W.O. NO. 0908376

D-807
SHEET 91 OF 91
SD-14

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

ASBUILT

DWG Name: M:\2RIV030200\Engr\Plan Sheets\pl-SD_12.dwg Plotted by: jesse.kattenberg on Dec 16, 2008 - 13:35:01