STORM DRAIN PLAN
TRACT NO. 29766
CITY OF RIVERSIDE, CALIFORNIA

GENERAL NOTES:

1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT, OR A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.

3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.

4. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HERON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.

5. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.

6. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.

7. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.

8. ALL TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO OPENING THE STREETS TO TRAFFIC.

9. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.

10. FINAL STRIPING FOR TRAFFIC CONTROL AND/OR PAVEMENT MARKING TO BE THE RESPONSIBILITY OF THE DEVELOPER.

11. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE #1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.

12. BEFORE THE RIP-RAP AT THE OUTLET OF ANY DRAINAGE STRUCTURE IS ACCEPTED BY THE CITY, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.

13. THE CONTRACTOR SHALL COORDINATE TRENCHING FOR CABLE TELEVISION WITH OTHER TRENCHING WITHIN THE SUBDIVISION.

NOTICE TO CONTRACTORS:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES, SHOWN OR NOT SHOWN ON THESE PLANS.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION ON THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS OR PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY, THE OWNER, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

CARE SHOULD BE TAKEN TO PREVENT GRADED DITCHES AND SWALES FROM UNDERMINING STREET IMPROVEMENTS. UPON INSPECTION OF THE SITES, THE CITY ENGINEER MAY REQUIRE TEMPORARY GUNITE SWALES, ENTERING OR LEAVING IMPROVEMENTS.

RIVERSIDE COUNTY TRANSPORTATION GENERAL NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/OWNER OR CONTRACTOR TO APPLY TO THE RIVERSIDE COUNTY TRANSPORTATION DEPARTMENT, PERMIT SECTION, FOR AN ENCROACHMENT PERMIT FOR ALL WORK PERFORMED WITHIN PUBLIC RIGHT-OF-WAY, DEDICATED AND ACCEPTED FOR PUBLIC USE; AND TO BE RESPONSIBLE FOR SATISFACTORY COMPLIANCE FOR ALL CURRENT ENVIRONMENTAL REGULATIONS DURING THE LIFE CONSTRUCTION ACTIVITIES FOR THIS PROJECT. ADDITIONAL STUDIES AND/OR PERMITS MAY BE REQUIRED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING OF THE PROPOSED WORK AREA, AND RELOCATION COSTS OF ALL EXISTING UTILITIES. PERMITTEE MUST INFORM COUNTY OF CONSTRUCTION SCHEDULE AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION. PHONE: (909) 955-6885 FOR PARCEL MAPS AND TRACT MAPS.
3. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE RIVERSIDE COUNTY TRANSPORTATION DEPARTMENT IMPROVEMENT STANDARDS AND SPECIFICATIONS, LATEST EDITION, COUNTY ORDINANCE NO. 461 AND SUBSEQUENT AMENDMENTS.
4. ALL UNDERGROUND FACILITIES, WITH LATERALS, SHALL BE IN PLACE PRIOR TO PAVING THE STREET, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: SEWER, WATER, ELECTRIC, GAS, STORM DRAINS.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER TO INSTALL AND MAINTAIN ALL CONSTRUCTION, REGULATORY, GUIDE AND WARNING SIGNS WITHIN THE PROJECT LIMITS AND ITS SURROUNDINGS TO PROVIDE SAFE PASSAGE FOR THE TRAVELING PUBLIC AND WORKERS UNTIL THE FINALCOMPLETION AND ACCEPTANCE OF THE PROJECT BY THE COUNTY.
6. ONLY LANDSCAPING CONSISTING OF GRASS AND PARKWAY TREES MAY BE INSTALLED WITHIN PARKWAYS ON LOCAL RESIDENTIAL STREETS WITHOUT SEPARATE LANDSCAPE PLANS. ALL OTHER TYPES OF LANDSCAPING IN THESE AREAS, AND ALL LANDSCAPING ON ALL OTHER STREETS, SHALL REQUIRE SEPARATE LANDSCAPE PLANS. ALL LANDSCAPING ENCROACHMENT SHALL CONFORM TO RIVERSIDE COUNTY "STANDARDS RELATING TO THE ADMINISTRATION OF LANDSCAPE ENCROACHMENTS" DATED JUNE 1990.
7. ANY PRIVATE DRAINAGE FACILITIES SHOWN ON THESE PLANS ARE FOR INFORMATION ONLY. BY SIGNING THESE IMPROVEMENT PLANS, NO REVIEW OR APPROVAL OF THOSE PRIVATE FACILITIES IS IMPLIED OR INTENDED BY THE RIVERSIDE COUNTY TRANSPORTATION DEPARTMENT.
8. CONSTRUCTION PROJECTS THAT DISTURB MORE THAN FIVE ACRES MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. OWNERS/DEVELOPERS ARE REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MONITORING PLAN FOR THE SITE.
9. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SIGNS AND MARKINGS NOT INCLUDED IN THE SIGNING AND WITHIN THE PROJECT AREAS, OR ON ROADWAYS ADJACENT TO THE PROJECT STRIPING PLAN BOUNDARIES, UPON THE REQUEST OF THE DIRECTOR OF TRANSPORTATION OR HIS DESIGNEE TO IMPROVE TRAFFIC SAFETY ON THE ROADS UNDER THE JURISDICTION OF THE DEVELOPER.
10. EXISTING STORM DRAIN PIPES / CULVERTS (WHETHER TO BE CONNECTED TO, EXTENDED, ADJUSTED, DRAINED TO, OR JUST IN THE PROJECT VICINITY) MUST BE REPAIRED, AND/ OR CLEANED TO MAKE THEM FUNCTIONAL AND ACCEPTABLE AS DIRECTED BY THE TRANSPORTATION DEPARTMENT.

ENGINEER'S "AS-BUILT" NOTE

The "As-Built" information shown on these plans was obtained from third party sources, provided to us by the client, which are not under the authority or control of KWC Engineers. Locations of underground utilities and structures shown on these plans were obtained from field records provided to us by third parties, which cannot be field verified.

Any person, entity, or agency planning construction in the vicinity of these underground facilities is cautioned to conduct their own independent investigation of the existing field condition, prior to starting any construction. KWC Engineers does not warrant or guarantee the accuracy of this "As-Built" plans.

RCE 26928 — Date 9/10/04
Exp 3-31-05

DEVELOPER:

AMBERHILL SANTA BARBARA, LLC
325 MAGNOLIA AVENUE
CORONA, CA 92879
(909) 735-4912

OWNER:

AMBERHILL SANTA BARBARA, LLC
325 MAGNOLIA AVENUE
CORONA, CA 92879
(909) 735-4912

ENGINEER:

KWC ENGINEERS, INC.
1269 W. POMONA ROAD SUITE #104
CORONA, CA. 92882-7158
(909) 734-2130
CITY OF RIVERSIDE BUSINESS TAX CERTIFICATE NO. 24200 - EXP. 07-01-02.

SOILS ENGINEER:

PETRA GEOTECHNICAL, INC.
3800 LA CRESCENTA AVENUE, SUITE 203
GLENDALE, CA 91214
(818) 541-1231

LEGAL DESCRIPTION:

THE NORTH HALF OF THE EAST HALF OF THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 18, TOWNSHIP 3 SOUTH, RANGE 4 WEST, SAN BERNARDINO MEDIAN, IN THE COUNTY OF RIVERSIDE , STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF; EXCEPT THAT PORTION CONVEYED TO THE COUNTY OF RIVERSIDE, BY DEED RECORDED SEPTEMBER 29, 1931 IN BOOK 43 PAGE 458 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.

UTILITY NOTES

WATER: WATER: WESTERN MUNICIPAL WATER DISTRICT, 450 E. ALESSANDRO, (909)

GAS: SOUTHERN CALIFORNIA GAS CO., P.O. BOX 3003, REDLANDS, CA. 92373, (909) 784-8772

SEWER: CITY OF RIVERSIDE, 3900 MAIN STREET, RIVERSIDE, CA. 92522, (909) 826-5341

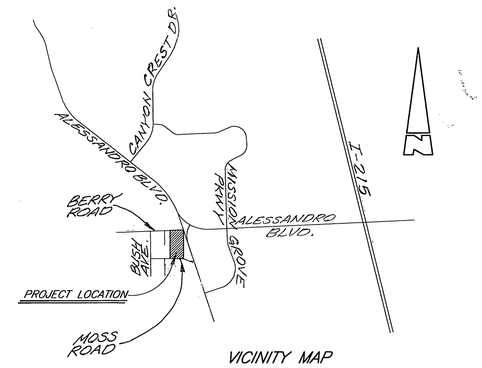
PHONE: PACIFIC TELEPHONE, 3083 ADAMS AVENUE, RIVERSIDE, CA. 92504

POWER: CITY OF RIVERSIDE, 3460 ORANGE STREET, RIVERSIDE, CA. 92501, (909) 782-0330, (909) 687-0791- EMERGENCIES 24 HOURS

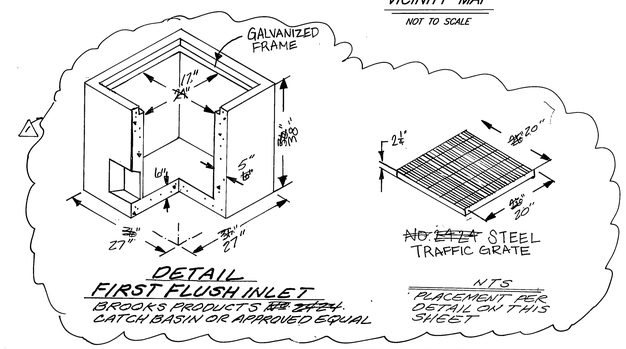
CABLE: CHARTER COMMUNICATIONS, 6680 VIEW PARK COURT, RIVERSIDE, CA. 92503

LEGEND

18	LOT NUMBERS
	SIDEWALK
	CATCH BASIN
	NEW A.C. / A.B. SECTION
	A.C. OVERLAY AND FEATHER

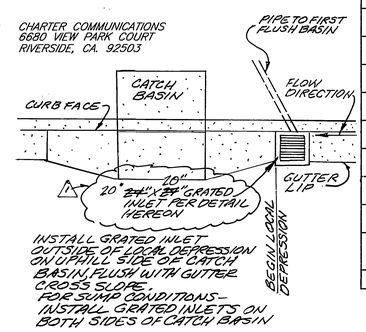


VICINITY MAP
NOT TO SCALE



DETAIL
FIRST FLUSH INLET
BROOKS PRODUCTS ~~NO. 24-24~~
CATCH BASIN OR APPROVED EQUAL

NTS
PLACEMENT PER DETAIL ON THIS SHEET

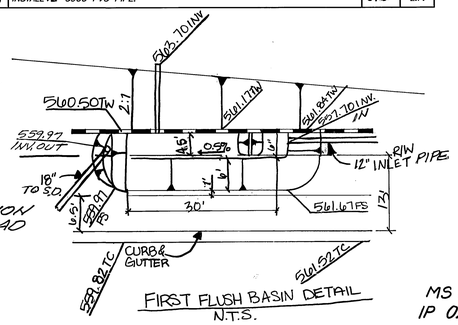


DETAIL
FIRST FLUSH INLET PLACEMENT

CONSTRUCTION NOTES AND QUANTITIES

1	CONSTRUCT 18" R.C.P. (D-2000) WITH PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452 (CASE 1)	96	L.F.
2	CONSTRUCT 24" R.C.P. (D-2000) WITH PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452 (CASE 1)	841	L.F.
3	CONSTRUCT CATCH BASIN & LOCAL DEPRESION PER CITY OF RIVERSIDE STD. DWG NO. 405	3	E.A.
4	CONSTRUCT CATCH BASIN & LOCAL DEPRESSION PER CITY OF RIVERSIDE STD. DWG NO. 407	2	E.A.
5	CONSTRUCT STORM DRAIN MANHOLE EZ PER CITY OF RIVERSIDE STD. DWG. NO. 431	1	E.A.
6	CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG NO. 424	4	E.A.
7	CONSTRUCT JUCTION STRUCTURE "B" PER CITY OF RIVERSIDE STD. DWG. NO. 421.	2	E.A.
8	CONSTRUCT JUCTION STRUCTURE NO.4 PER CITY OF RIVERSIDE STD. DWG. NO. 423	1	E.A.
9	CONSTRUCT PIPE CULVERT END WALLS PER DETAIL ON SHEET 3.	1	L.S.
10	CONSTRUCT GROUTED RIPRAP BLANKET PER DETAIL ON SHEET 3.	1	L.S.
11	INSTALL BROOKS PRODUCT DROP INLET WITH TRAFFIC RATED COVER (OR EQUAL). PLACE FLUSH WITH GUTTER CROSS SLOPE UNLESS NOTED OTHERWISE. SIZE AS INDICATED.	4	EA.
12	INSTALL 12" C900 PVC PIPE.	315	L.F.

NOTE:
APPROVAL BY THE COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT IS FOR THE AREAS WITHIN COUNTY ROAD RIGHT-OF-WAY ONLY. SEE RIVERSIDE COUNTY GENERAL NOTES ON THIS SHEET.



FIRST FLUSH BASIN DETAIL
N.T.S.

MS 3869
IP 020038

CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT-ELECTRIC OVERHEAD & UNDERGROUND	PACIFIC BELL TELEPHONE	CHARTER COMMUNICATIONS	REVIEWED BY W.M.W.D. SHEETS 1-3 FOR NON-INTERFERENCE COMPLIANCE ONLY	COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT SHEETS 1 & 2
APPROVED BY / DATE 7-25-02	APPROVED BY / DATE 7/25/02	APPROVED BY / DATE 7-25-02	CLEARED BY LETTER DATED 3/7/02 — CIVIL ENGINEER #46212 / DATE	APPROVED BY / DATE 7/24/02

REGISTERED PROFESSIONAL ENGINEER — KHALED A. OTHMAN — No. 33950 — Exp. 6/30/06 — CIVIL — STATE OF CALIFORNIA

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED PROFESSIONAL ENGINEER — KENNETH W. CRAWFORD, JR. — No. 26928 — Exp. 3/31/05 — CIVIL — STATE OF CALIFORNIA

KWC ENGINEERS, INC.
CIVIL ENGINEERING, PLANNING AND CONSTRUCTION MANAGEMENT
1269 W. POMONA ROAD, SUITE 104 • CORONA, CA. 92882-7158 • 909-734-2130

Designed by	Drawn by	Checked by
MIGUEL G.	KYLE B.	LEON L.

PLANS PREPARED UNDER DIRECT SUPERVISION OF KENNETH W. CRAWFORD JR. R.C.E. 26928 Exp. 03-31-05 — Date 7/2/02

Scale 1"=40'

BENCH MARK : CITY OF RIVERSIDE BENCH MARK EB-D3 P.K. NAIL AND CITY ENGINEER TAG IN THE SIDEWALK OVER THE WESTERLY WALL OF A CATCH AT THE E.C.R. OF THE SOUTHEASTERLY CURB RETURN OF JESSE LANE AND TRAUTWEIN ROAD. THE MARK IS 2 FEET SOUTHERLY OF THE FACE OF CURB. ADJUSTED AND ENTERED: JUNE 1997 ELEVATION: 1599.77

Reference Plans for these Improvements

MARK	REVISIONS	APPR.	DATE
1	REVISE GRATE SIZE AND INLET ON SHEETS 1+2	RJZ	8-6-03
	REVISE YARD DRAIN CONNECTIONS SHEET 2		
	REVISE CATCH BASIN & CONNECTOR PIPE SHEET 3		

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
DEPUTY P.W. DIRECTOR		
STREET SERVICES		7/24/02

APPROVED BY — DIRECTOR OF PUBLIC WORKS — DATE 8/23/02

TRACT NO. 29766
STORM DRAIN PLAN
TITLE SHEET

FOR: AMBERHILL - SANTA BARBARA, LLC.

PROJECT NO. D-707

Sh 1 of 3

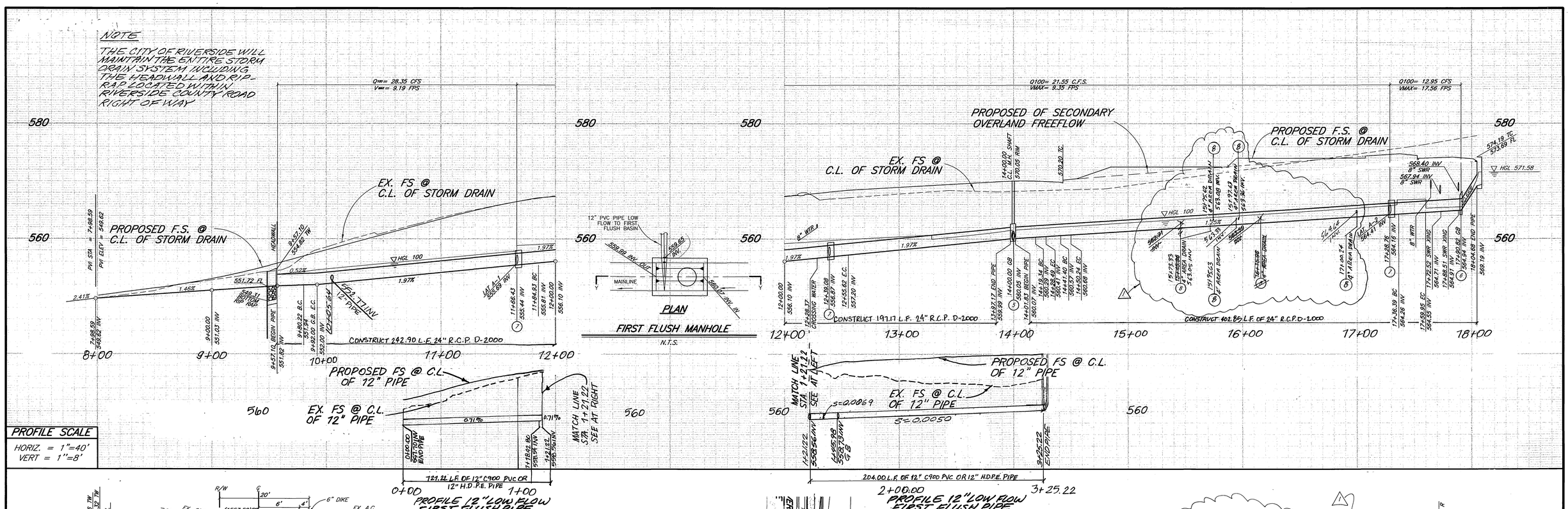
FILE NO.:

J.N. 99 425.2.10 H:\99425\CONST\MPR\425D01.DWG 05-21-02 KB

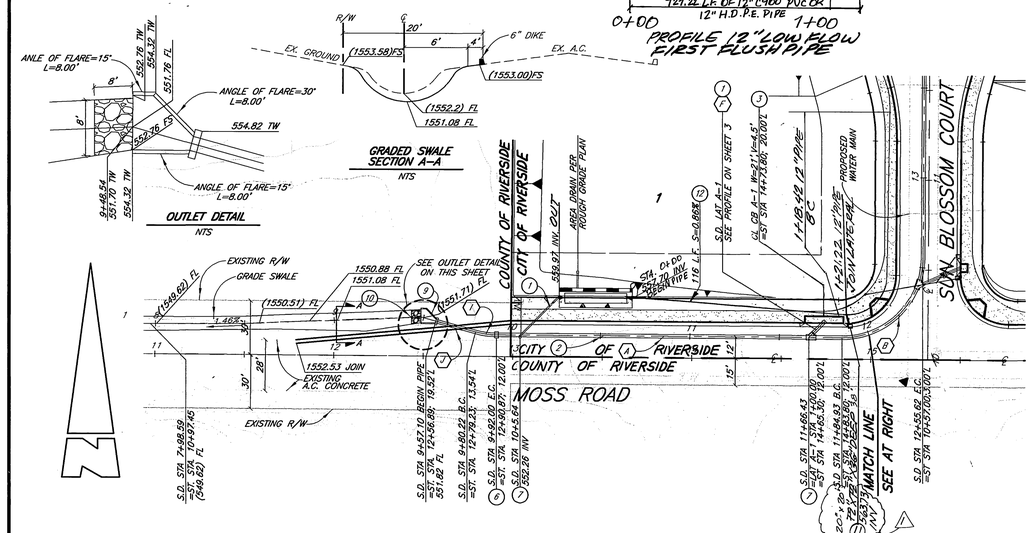
INDEXED 10-07-03 KH

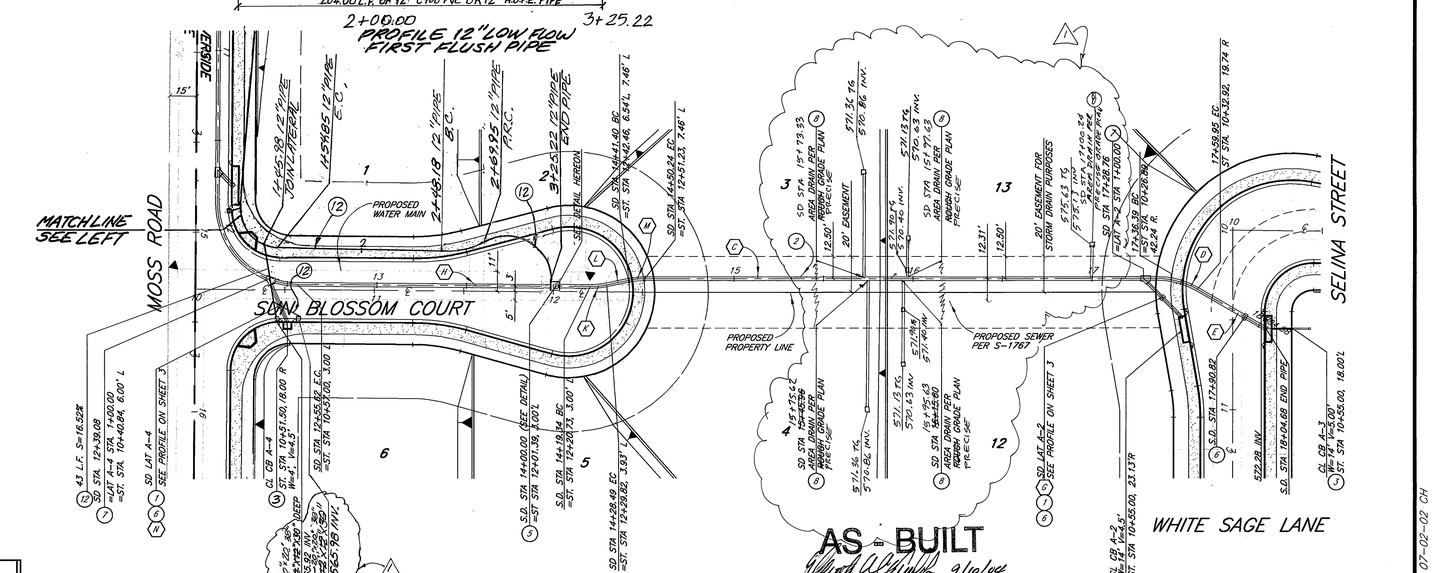
NOTE

THE CITY OF RIVERSIDE WILL MAINTAIN THE ENTIRE STORM DRAIN SYSTEM INCLUDING THE HEADWALL AND RIP-RAP LOCATED WITHIN RIVERSIDE COUNTY ROAD RIGHT OF WAY



PROFILE SCALE
HORIZ. = 1"=40'
VERT = 1"=8'





MS 3869
IP 020038

	Δ	R	L	T
A	N89°35'43"W	–	192.93'	–
B	90°0'0"	45.00'	70.69'	45.00'
C	N00°0'0"E		286.15'	
D	30°0'0"	45.00'	23.56'	12.06'
E	S30°0'0"W	–	44.73'	–
F	N45°24'17"E	–	12.61'	–
G	S45°0'0"W	–	31.01'	–
H	N00°24'17"E	–	163.73'	–
I	15°0'0"	45.00'	11.78'	5.92'
J	N74°35'43"E		23.12'	
K	11°39'17"	45.00'	9.15'	4.59'
L	N11°15'00"W		12.91'	
M	11°15'00"	45.00'	8.84'	4.43'
N	N46°27'12"E	–	26.60'	–

STORM DRAIN

1. CONSTRUCT 18" R.C.P. (D-2000) WITH PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 432 (CASE 1)
2. CONSTRUCT 24" R.C.P. (D-2000) WITH PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 432 (CASE 1)
3. CONSTRUCT CATCH BASIN & LOCAL DEPRESSION PER CITY OF RIVERSIDE STD. DWG. NO. 405
4. CONSTRUCT CATCH BASIN & LOCAL DEPRESSION PER CITY OF RIVERSIDE STD. DWG NO. 407
5. CONSTRUCT STORM DRAIN MANHOLE EZ PER CITY OF RIVERSIDE STD. DWG. NO. 431
6. CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG NO. 424
7. CONSTRUCT JUCTION STRUCTURE "B" PER CITY OF RIVERSIDE STD. DWG. NO. 421.
8. CONSTRUCT JUCTION STRUCTURE NO.4 PER CITY OF RIVERSIDE STD. DWG. NO. 423

STORM DRAIN (CONT.)

9. CONSTRUCT PIPE CULVERT END WALLS PER DETAIL ON SHEET 3.
10. CONSTRUCT GROUTED RIPRAP 1' MIN. ROCK SIZE (75LBS) WITH GROUT WITH A MIN. 3/4" AGGREGATE BASE AND 3"-4" SLUMP PER DETAIL HEREON.
11. INSTALL BROOKS PRODUCT DROP INLET WITH TRAFFIC RATED COVER (OR EQUAL). PLACE FLUSH WITH GUTTER CROSS SLOPE UNLESS NOTED OTHERWISE. SIZE AS INDICATED.
12. INSTALL 12" C900 PVC PIPE OR 12" H.P.D.E. PIPE. (LOW FLOW FIRST FLUSH PIPE)

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
SHEETS 1&2 ONLY
MS3869
APPROVED BY — DATE 7/2/02

REGISTERED PROFESSIONAL ENGINEER
KHALED A. OTHMAN
No. 33950
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

SCALE IN FEET

DIMENSIONS FOR STANDARD DRAWING STRUCTURES

LATERAL	STD. DWG. NO.	MAIN LINE STA.	A	B	C'	D	E'	L	ELEV. S	ELEV. R
A-1	421	11+66.43	45°00'00"	18"	3.65'	24"	3.10'	3.20'	555.69	557.42
	431	14+00.00						4.00'		
A-2	421	17+36.39	45°00'00"	18"	3.65'	24"	3.10'	3.20'	564.66	565.85
A-4	421	12+39.08	45°00'00"	18"	3.65'	24"	3.10'	3.20'	557.12	557.64

Underground Service Alert
Call: TOLL FREE
1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED PROFESSIONAL ENGINEER
KENNETH W. CRAWFORD, JR.
No. 26928
Exp. 3/31/05
CIVIL
STATE OF CALIFORNIA

KWC ENGINEERS, INC.
CIVIL ENGINEERING, PLANNING AND CONSTRUCTION MANAGEMENT
1269 W. POMONA ROAD, SUITE 104 • CORONA, CA. 92882-7158 • 909-734-2130

Designed by MIGUEL G. | Drawn by HELEN P. | Checked by LEON L.
PLANS PREPARED UNDER SUPERVISION OF KENNETH W. CRAWFORD, JR.
7/2/02 Date — R.C.E. 26928 Exp. 03-31-05

Scale 1"=40'

BENCH MARK : CITY OF RIVERSIDE BENCH MARK E8-D3 P.K. NAIL AND CITY ENGINEER TAG IN THE SIDEWALK OVER THE WESTERLY WALL OF A CATCH AT THE E.C.R. OF THE SOUTHEASTERLY CURB RETURN OF JESSE LANE AND TRAUTWEIN ROAD. THE MARK IS 2 FEET SOUTHERLY OF THE FACE OF CURB. ADJUSTED AND ENTERED: JUNE 1997 ELEVATION: 1599.77

Reference Plans for these Improvements

MARK	REVISIONS	APPR.	DATE
1	REVISE YARD DRAIN CONNECTIONS, REVISE GRATE SIZE AND INLET.	RVZ	8-6-03

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.	EC	8/26/02
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
DEPUTY P.W. DIRECTOR		
STREET SERVICES		11/26/02

APPROVED BY — DIRECTOR OF PUBLIC WORKS
DATE 8/26/02

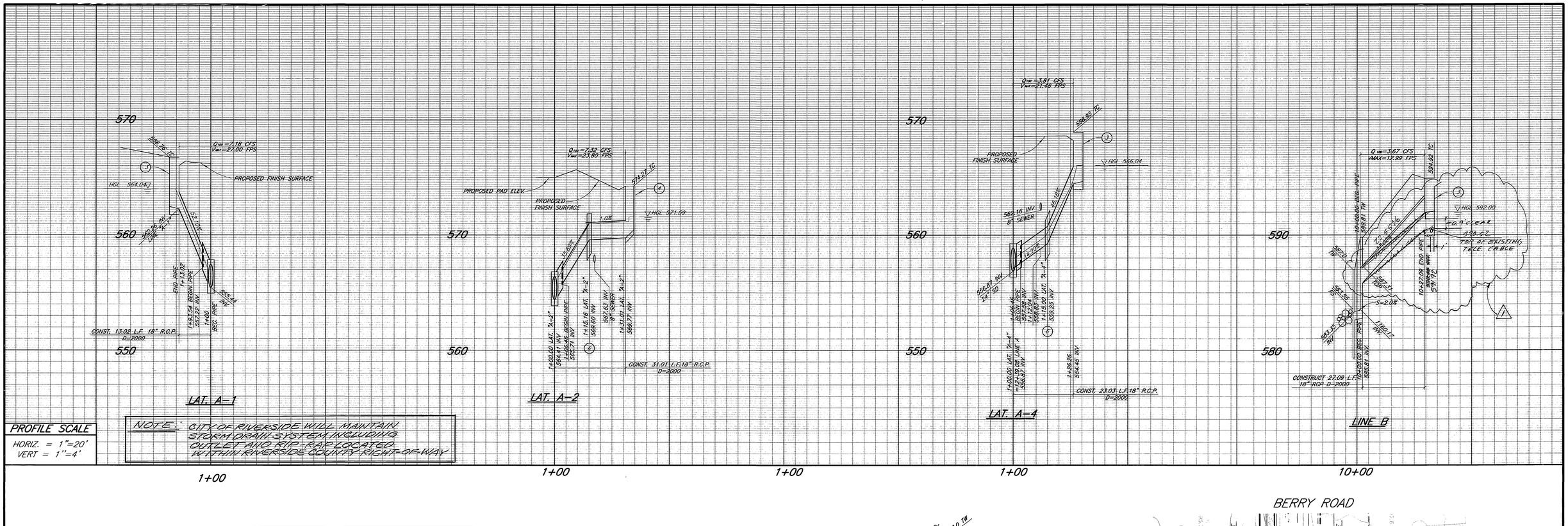
TRACT NO. 29766
STORM DRAIN PLAN
LINE A

FOR: AMBERHILL – SANTA BARBARA, LLC.

PROJECT NO. D-707
Sh 2 of 3
FILE NO.:

J.N. 99.425.2.10 H:\99\425\CONST\MFP\425D02.DWG 07-02-02 CH

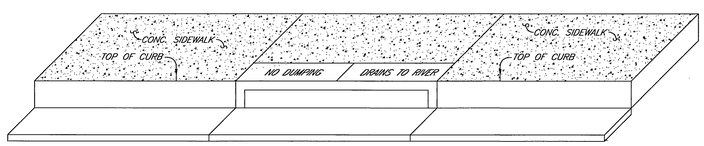
INDEXED 10-03-03 4th



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

NOTE: CITY OF RIVERSIDE WILL MAINTAIN STORM DRAIN SYSTEM INCLUDING OUTLET AND RIP-RAP LOCATED WITHIN RIVERSIDE COUNTY RIGHT-OF-WAY

1+00 1+00 1+00 1+00 10+00



CATCH BASIN STENCILING DETAIL

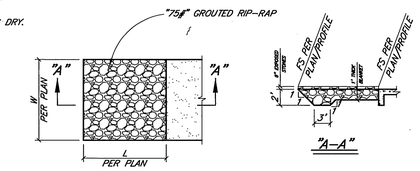
NTS

(A) STENCILS TO HAVE 2" LETTERS AS FOLLOWS:
NO DUMPING
DRAINS TO RIVER

(B) PLACE BOTH STENCILS CENTERED WITHIN THE CATCH BASIN OPENING AND WITHIN THE TOP CURB.

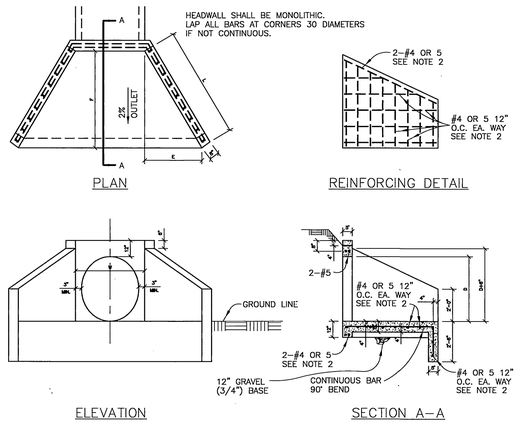
(C) SPRAY BOTH STENCILS WITH WHITE PAINT.

(D) REMOVE STENCILS WHEN PAINT IS DRY.



(10) GROUTED RIPRAP BLANKET

N.T.S.



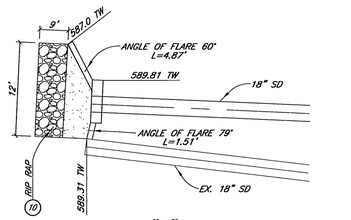
DIMENSIONS				
PIPE DIA.	L	E	F	W
24"	4'-9"	2'-8"	4'-0"	2'-6"
30"	5'-5"	3'-0"	4'-6"	3'-0"
36"	6'-0"	3'-4"	5'-0"	3'-8"
42"	6'-7"	3'-8"	5'-6"	4'-2"
48"	7'-3"	4'-0"	6'-0"	4'-10"
54"	8'-2"	4'-6"	6'-9"	5'-4"
60"	9'-8"	5'-4"	8'-0"	7'-0"

NOTES:

1. HEADWALL SHALL BE CONSTRUCTED OF CLASS A CONCRETE.
2. REINFORCING STEEL SHALL BE NO. 4 BARS FOR "W" UP TO 60". ABOVE "W"=60" NO. 5 BARS SHALL BE USED. 2" MIN. CLEARANCE, 30 DIA. LAP, ALL STEEL.
3. ADJACENT SLOPES SHALL BE 1-1/2 TO 1 OR FLATTER.
4. MULTIPLE PIPES TO BE SET WITH LONGITUDINAL CENTERS 1-2/3 DIA. APART.
5. ALL EXPOSED CORNERS TO BE ROUNDED 3/4" RADIUS.
6. W SHALL BE INCREASED WHEN MULTIPLE PIPES OR PIPES ON SKEW ARE USED.

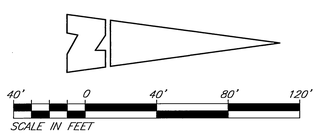
(9) HEADWALL STRUCTURE

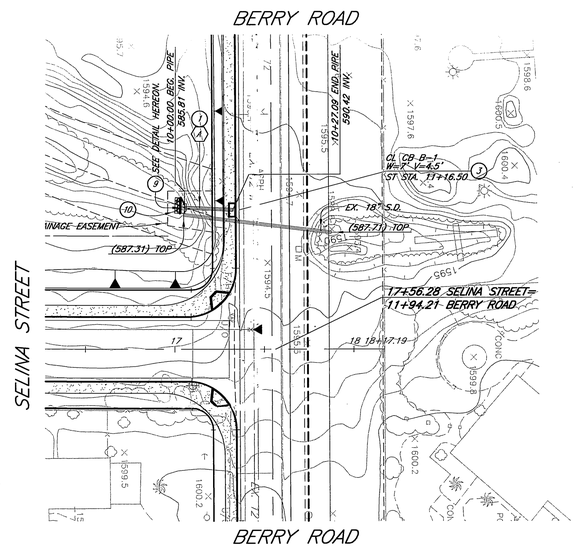
N.T.S.



LINE "B" PIPE CULVERT ENDWALL DETAIL

NTS





△	R	L	T	STORM DRAIN
(A) N03°10'46"E	–	27.09'	–	(1) CONSTRUCT 18" R.C.P. (D-2000) WITH PIPE BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452 (CASE 1)
				(3) CONSTRUCT CATCH BASIN & LOCAL DEPRESION PER CITY OF RIVERSIDE STD. DWG NO. 405
				(6) CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG NO. 424
				(9) CONSTRUCT PIPE CULVERT END WALLS PER DETAIL ON SHEET 3.
				(10) CONSTRUCT GROUTED RIPRAP BLANKET PER DETAIL ON SHEET 3.

AS - BUILT
9/10/04
R.C.E. EXP. DATE

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE
1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED PROFESSIONAL ENGINEER
KENNETH W. CRAWFORD, JR.
No. 26928
Exp. 3/31/05
CIVIL
STATE OF CALIFORNIA

KWC ENGINEERS, INC.
CIVIL ENGINEERING, PLANNING AND CONSTRUCTION MANAGEMENT
1269 W. POMONA ROAD, SUITE 104 • CORONA, CA. 92882-7108 • 909-734-2130

Designed by	Drawn by	Checked by
MIGUEL C.	HELEN P.	LEON L.

PLANS PREPARED UNDER SUPERVISION OF:
KENNETH W. CRAWFORD, JR.
7/2/02 Date R.C.E. 26928 Exp. 03-31-05

Scale 1"=40'

BENCH MARK : CITY OF RIVERSIDE BENCH MARK EB-D3 P.K. NAIL AND CITY ENGINEER TAG IN THE SIDEWALK OVER THE WESTERLY WALL OF A CATCH AT THE E.C.R. OF THE SOUTHEASTERLY CURB RETURN OF JESSE LANE AND TRAUTWEIN ROAD. THE MARK IS 2 FEET SOUTHERLY OF THE FACE OF CURB. ADJUSTED AND ENTERED: JUNE 1997 ELEVATION: 1599.77

Reference Plans for these Improvements

MARK	REVISIONS	APPR.	DATE
1	REVISE CATCH BASIN & CONNECTOR PIPE	RVZ	8/6/03

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		8/26/02
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
DEPUTY P.W. DIRECTOR		
STREET SERVICES		7/26/02

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 8/22/02

TRACT NO. 29766
STORM DRAIN PLAN
LINE B & LATS A-1&A-2

FOR: AMBERHILL – SANTA BARBARA, LLC.

PROJECT NO. D-707

Sh 3 of 3

FILE NO.:

INDEXED 10-07-03 GH

J.N. 99 425.2.10 H:\99\425\CONST\MPR\425SD03.DWG 08-21-02 KB