GRADING GENERAL NOTES

1. ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE, CHAPTER 70, AS AMENDED BY ORDINANCE 457.62.
2. MAXIMUM CUT AND FILL SLOPES = 2:1 (UNLESS NOTED OTHERWISE)
3. CONTRACTOR TO PROVIDE BERMING ALONG THE TOP OF 2:1 SLOPES OVER 5' HIGH.
4. ALL GRADING SHALL BE DONE UNDER THE SUPERVISION OF A COMPETENT SOILS ENGINEER WHO SHALL CERTIFY THAT ALL FILL HAS BEEN PROPERLY PLACED AND WHO SHALL SUBMIT A FINAL COMPACTION REPORT FOR ALL FILLS OVER 1' DEEP.
5. A REGISTERED CIVIL ENGINEER SHALL SUBMIT TO THE RIVERSIDE COUNTY DEPARTMENT OF FACILITIES MANAGEMENT WRITTEN CERTIFICATION OF COMPLETION OF ROUGH GRADING IN ACCORDANCE WITH THE APPROVED GRADING PLAN (OR APPROVED REVISIONS) PRIOR TO ISSUANCE OF BUILDING PERMITS, CERTIFICATION SHALL BE TO LINE, GRADE AND ELEVATION.
6. ALL GRADING AND EARTHWORK SHALL BE DONE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY CONVERSE CONSULTANTS, PROJECT #07-81-368-01, OCTOBER 30, 2008, TEL (909) 796-0544. TWO SETS OF THE FINAL COMPACTION REPORT SHALL BE SUBMITTED TO THE RIVERSIDE COUNTY DEPARTMENT OF FACILITIES MANAGEMENT WHICH SHALL INCLUDE CERTIFICATION THAT GRADING HAS BEEN DONE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT.
7. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL, AND OTHER DELETERIOUS MATERIAL.
8. DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROLS SHOULD BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.
9. PROJECT DUST SHALL BE CONTROLLED BY WATERING OR OTHER METHODS AS APPROVED BY THE CITY ENGINEER.
10. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION, ESPECIALLY DURING STORM CONDITIONS PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING OPERATIONS.
11. A PRE-JOB CONFERENCE BETWEEN THE PROJECT ENGINEER, SOILS ENGINEER, CONTRACTOR AND RIVERSIDE COUNTY DEPARTMENT OF FACILITIES MANAGEMENT SHALL BE COORDINATED BY THE OWNER A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
12. UNLESS OTHERWISE APPROVED ON PERMIT BY THE COUNTY, NO GRADING OPERATION IS PERMITTED ON WEEKENDS OR HOLIDAYS.
13. CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL GRADING OPERATIONS WITHIN HIS PROPERTY, UNLESS EASEMENTS FROM ADJACENT PROPERTY OWNERS HAVE BEEN OBTAINED.
14. EXISTING WELLS MUST BE ABANDONED IN ACCORDANCE WITH THE RIVERSIDE COUNTY HEALTH DEPARTMENT AND THE SOILS ENGINEER'S RECOMMENDATIONS NOTIFY RIVERSIDE COUNTY DEPARTMENT OF FACILITIES MANAGEMENT ONCE WELLS ARE CAPED FOR INSPECTION PURPOSES.
15. AT THE DIRECTION OF THE RIVERSIDE COUNTY DEPARTMENT OF FACILITIES MANAGEMENT, THE CONTRACTOR WILL BE RESPONSIBLE TO INSTALL EROSION CONTROL FACILITIES.
16. ALL WORK WITHIN A PUBLIC RIGHT OF WAY WILL REQUIRE AN ENCROACHMENT PERMIT FROM THE CITY OF PERRIS BUILDING DEPARTMENT AT CITY HALL, CONTACT 943-5003
17. TEMPORARY SLOPE SCAPING AND TEMPORARY IRRIGATION FACILITIES MUST BE INSTALLED AS APPROVED BY PLANNING AND ENGINEERING DEPARTMENTS FOR ANY AREA GREATER THAN 5' OF VERTICAL SLOPE WHICH NO ONSITE CONSTRUCTION ACTIVITY IS TO BEGIN AFTER 90 DAYS OF COMPLETION OF MASS GRADING.
18. ~~A CASH DEPOSIT AS DETERMINED BY CITY ENGINEER WILL BE REQUIRED PRIOR TO ISSUANCE OF GRADING PERMIT TO ASSURE PROPER MAINTENANCE OF STREETS AND ADEQUATE WATERING DURING GRADING OPERATIONS.~~
19. CONTRACTOR IS RESPONSIBLE TO REPLACE IN KIND ALL FACILITIES DISTURBED BY THIS PROJECT.
20. ALL WALL AND FENCE REQUIRE SEPARATE PERMIT.
21. ADJACENT STREETS SHALL BE CLEANED ON DAILY BASIS.
22. NO EXPORT OF MATERIALS IS PERMITTED.
23. NO WORK WITHIN CITY OR MWD RIGHT-OF-WAY WITHOUT PERMIT.
24. THE BUILDING PAD & SETBACK AS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY & REQUIRE FACILITIES MANAGEMENT APPROVAL.
25. TYPE II CEMENT IS REQUIRED FOR ALL CONCRETE THAT IS IN CONTACT WITH EXISTING SITE SOILS PER SOILS ENGINEER'S RECOMMENDATIONS.

UNDERGROUND FIRE PROTECTION GENERAL NOTES

SEE SHEET C5.01

SIGNING AND STRIPING GENERAL NOTES

SEE SHEET C6.0

EROSION CONTROL GENERAL NOTES

SEE SHEET C7.0

LEGAL DESCRIPTION

IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, BEING LOTS 476 THROUGH 489 OF ROMOLA FARMS NO. 6A AS SHOWN BY MAP ON FILE IN BOOK 14 OF MAPS, PAGES 63, 64 AND 65, RECORDS OF SAID RIVERSIDE COUNTY, TOGETHER WITH THE SOUTHEAST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 3, TOWNSHIP 5 SOUTH, RANGE 3 WEST, SAN BERNARDINO MERIDIAN.

BASIS OF BEARINGS

BEARINGS SHOWN HEREON ARE BASED UPON THE CENTERLINE OF SHERMAN ROAD BEING NORTH 01°29'32" EAST AS SHOWN ON TRACT MAP NO. 25901, FILED IN BOOK 405, PAGES 86 THROUGH 91 OF MAPS, OFFICIAL RECORDS OF THE COUNTY OF RIVERSIDE.

BENCHMARK

RIVERSIDE COUNTY BENCHMARK: 600-33-68. ELEV. 1412.409
STANDARD BRASS DISK ON CONCRETE POST 1.3 MILES SOUTHEAST ALONG THE ATCHISON, TOPEKA AND SANTA FE RAILWAY FROM THE STATION IN PERRIS, 125 FT. NORTH OF CASE ROAD, 56 FT. NORTH OF THE MOST NORTHELY RAIL OF THE TRACK, 5 FT. WEST OF POWER POLE #74680, 2 FT. LOWER THAN THE RAILWAY, 2 FT. EAST OF A MARKER POST, SET A BRASS DISK IN THE TOP OF A CONCRETE POST.

EMWD SEWER NOTES

1. SEWER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH EMWD'S STANDARDS AND SPECIFICATIONS.
2. GRAVITY SEWER PROFILE ELEVATIONS ARE TO FLOW LINE (CONDUIT INVERT).
3. CONTRACTOR HAS THE OPTION TO INSTALL PLASTIC OR VCP SEWERS, EXCEPT WHERE SPECIFICALLY DESIGNATED ON PLANS, PER EMWD STANDARDS AND SPECIFICATIONS.
4. PRIOR TO CONSTRUCTION OF SEWER, CONTRACTOR SHALL EXPOSE EXISTING SEWER AND VERIFY ITS EXISTING ELEVATION AND LOCATION. WHERE CONNECTING TO EXISTING MANHOLES AND AN INLET STUB OF PROPER SIZE EXISTS, NO ALTERATIONS SHALL BE MADE TO EXISTING MANHOLE BASE OR STUB EXCEPT AS SPECIFICALLY AUTHORIZED BY EMWD.
5. SEWER LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWGS. SB-177. LOCATIONS OF WYES AND LATERALS, WHERE NOT SHOWN ON PLANS, ARE TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION TO MISS DRIVEWAYS. ALL LATERALS ARE TO BE 4" DIAMETER UNLESS OTHERWISE SHOWN ON THE PLANS.
6. THE CONTRACTOR IS ADVISED THAT THE WORK ON THIS PROJECT MAY INVOLVE WORKING IN CONFINED AIR SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR "CONFINED AIR SPACE," ARTICLE 108, TITLE 8 CALIFORNIA ADMINISTRATIVE CODE.
7. WHERE GROUNDWATER IS ENCOUNTERED, ALL VCP PIPE SHALL BE TREATED FOR ABSORPTION RESISTANCE PER EMWD SPECIFICATIONS.
8. ALL PIPE ZONE BEDDING AND TRENCH BACKFILL ARE TO BE PER STD. DWGS. SB-157, SB-158, AND SB-159.
9. ALL LATERALS SHALL HAVE A CLEAN OUT IN ACCORDANCE WITH STD. DWG SB-52.
10. ALL SEWER INLETS AT THE MANHOLE SHALL BE SUCH THAT ITS CROWN SHALL BE LEVEL WITH THE CROWN OF THE OUTLET PIPE AT THEIR PROJECTIONS AT THE MANHOLE CENTERLINES.

EMWD WATER NOTES

1. WATER PIPELINE AND APPURTENANT CONSTRUCTION SHALL BE IN ACCORDANCE WITH EMWD STANDARDS AND SPECIFICATIONS.
2. PRIOR TO CONSTRUCTION OF PIPELINE, CONTRACTOR SHALL EXPOSE EXISTING WATER SYSTEM TO VERIFY ITS LOCATION AND ELEVATION.
3. AIR VALVE ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B-598, TYPE "B".
4. WATER SYSTEM PROFILE ELEVATIONS ARE TO CENTERLINE (CENTER GRADE) OF PIPE.
5. INSTALL LOCATOR WIRE OVER WATERMAIN PER B-656.
6. FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. B-362, COLOR CODED GREEN.
7. BLOW-OFF ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH STD. DWG. OF FIRE HYDRANT STD. B-568.
8. APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE (B-597) REQUIRED FOR ALL INDUSTRIAL, COMMERCIAL, APARTMENT COMPLEXES AND LANDSCAPE SERVICES.
9. ALL PVC PIPE THROUGH 12" SHALL BE TYPE C-900, CLASS 150 EXCEPT WHERE NOTED OTHERWISE. PIPE SHALL CONFORM TO AWWA SPECIFICATIONS.
10. FITTINGS FOR P.V.C. PIPE SHALL BE DUCTILE OR GRAY IRON. FITTINGS SHALL BE FLANGED, BOLTED MECHANICAL JOINTS, OR PUSH-ON JOINTS, AND SHALL BE CEMENT MORTAR LINED AND TAR (SEAL) COATED PER EMWD STANDARDS AND SPECIFICATIONS.
11. ALL DUCTILE OR GRAY IRON FITTINGS SHALL BE POLYETHYLENE ENCASED AT THE TIME OF INSTALLATION PER EMWD STANDARDS AND SPECIFICATIONS.
12. A JOINT RESTRAINT DEVICE SHALL BE USED ON ALL MAINLINE, PIPE JOINTS WITHIN SPECIFIED LIMITS AND ALL JOINTS OF WATER APPURTENANCES LATERALS OF MAINLINE, PER EMWD SPECIFICATIONS & STD. DWG. B-663.
13. ALL MATERIALS TESTING AND INSPECTION OF PIPE SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF RIVERSIDE COUNTY AND THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.
14. WATER AND SEWER SEPARATION PER RIVERSIDE COUNTY STANDARD 609.
15. FAILURE TO MEET ANY OF THE REQUIREMENTS OF RIVERSIDE COUNTY AND THE AWWA SPECIFICATIONS WILL BE CAUSE FOR REJECTION.
16. MINIMUM PIPE COVER SHALL BE 48 INCHES.

NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE 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 DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

CONTRACTOR IS TO CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-422-4133 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

CONTRACTOR SHALL ALSO NOTIFY THE RIVERSIDE COUNTY DEPARTMENT OF FACILITIES MANAGEMENT AT 951-955-4850 AND EASTERN MUNICIPAL WATER DISTRICT (JIM WYATT) AT 928-7676 EXT. # 228 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR, AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS".

THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS' AND SUBCONTRACTORS' COMPLIANCE WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR OR WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS".

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

LEGEND & ABBREVIATIONS

FL	– FLOW LINE
FS	– FINISHED SURFACE
FG	– FINISHED GRADE
GB	– GRADE BREAK
GM	– GAS METER
HP	– HIGH POINT
DG	– DECOMPOSED GRANIT
INV	– INVERT
LT	– LIGHT
MH	– MANHOLE
NG	– NATURAL GROUND
P.O.C.	– POINT OF CONNECTION
PP	– POWER POLE
PVC	– POLY VINYL CHLORINE
R	– RIDGE LINE
SCO	– SEWER CLEANOUT
SD	– STORM DRAIN
SDCO	– STORM DRAIN CLEANOUT
SDR	– STANDARD DIMENSION RATIO
SMH	– SEWER MANHOLE
TB	– TOP OF BERM
TC	– TOP OF CURB
TEL	– TELEPHONE
TG	– TOP OF GRATE
C.G.	– CENTER GRADE OF PIPE
SCH	– SCHEDULE
(symbol)	– ACCESSIBLE PARKING SPACE

EX. W/L	– HOT TAP
FH	– STANDARD FIRE HYDRANT
WM	– SERVICE CONNECTION WITH METER
BO	– BLOW-OFF
FDC	– FIRE DEPARTMENT CONNECTION
	– GATE VALVE
RPP [B]	– REDUCED PRESSURE BACKFLOW DEVICE
[DC]	– DOUBLE CHECK DETECTOR ASSEMBLY
	– REDUCER
	– CATCH BASIN AND STORM DRAIN LINE

CIVIL DRAWING LIST

CIVIL TITLE SHEET

C1.0	PRECISE GRADING PLAN TITLE SHEET – GENERAL NOTES, LEGEND & ABBREVIATIONS, DRAWING LIST AND CONSTRUCTION NOTES

GRADING

C2.01	GRADING DETAILS
C2.02	GRADING TYPICAL SECTIONS
C2.1	PRECISE GRADING PLAN – 30 SCALE
C2.2	PRECISE GRADING PLAN – 30 SCALE
C2.3	PRECISE GRADING PLAN – 30 SCALE
C2.4	PRECISE GRADING PLAN – 30 SCALE
C2.5	PRECISE GRADING PLAN – 30 SCALE
C2.6	PRECISE GRADING PLAN – 30 SCALE
C2.7	PRECISE GRADING PLAN – 10 SCALE
C2.8	PRECISE GRADING PLAN – 10 SCALE
C2.9	PRECISE GRADING PLAN – 10 SCALE
C2.10	PRECISE GRADING PLAN – 10 SCALE
C2.11	PRECISE GRADING PLAN – 10 SCALE
C2.12	PRECISE GRADING PLAN – 10 SCALE
C2.13	PRECISE GRADING PLAN – 10 SCALE
C2.14	PRECISE GRADING PLAN – 10 SCALE (ALT #1)

STORM DRAIN

C3.01	STORM DRAIN DETAILS
C3.02	STORM DRAIN DETAILS
C3.1	STORM DRAIN PLAN – 30 SCALE
C3.2	STORM DRAIN PLAN – 30 SCALE
C3.3	STORM DRAIN PLAN – 30 SCALE
C3.4	STORM DRAIN PLAN – 30 SCALE
C3.5	STORM DRAIN PLAN – 30 SCALE
C3.6	STORM DRAIN PLAN – 30 SCALE
C3.7	STORM DRAIN PLAN – 10 SCALE
C3.8	STORM DRAIN PLAN – 10 SCALE
C3.9	FIELD SUBSURFACE DRAINAGE – 30 SCALE
C3.10	FIELD SUBSURFACE DRAINAGE – 30 SCALE
C3.11	TOT LOTS SUBSURFACE DRAINAGE – 10 SCALE
C3.12	INFILTRATION SYSTEM #1 – 30 SCALE
C3.13	INFILTRATION SYSTEM #2 – 30 SCALE
C3.14	STORM DRAIN PLAN – 30 SCALE (ALT #1)

SEWER AND WATER - PRIVATE

C4.1	SEWER AND WATER PLAN – 30 SCALE
C4.2	SEWER AND WATER PLAN – 30 SCALE
C4.3	SEWER AND WATER PLAN – 30 SCALE
C4.4	SEWER AND WATER PLAN – 30 SCALE
C4.5	SEWER AND WATER PLAN – 30 SCALE
C4.6	SEWER AND WATER PLAN – 30 SCALE
C4.7	SEWER AND WATER PLAN – 10 SCALE
C4.8	SEWER AND WATER PLAN – 10 SCALE

UNDERGROUND FIRE PROTECTION

C5.01	UNDERGROUND FIRE PROTECTION GENERAL NOTES
C5.02	UNDERGROUND FIRE PROTECTION DETAILS
C5.1	UNDERGROUND FIRE PROTECTION PROFILES
C5.2	UNDERGROUND FIRE PROTECTION PLAN
C5.3	UNDERGROUND FIRE PROTECTION PLAN
C5.4	UNDERGROUND FIRE PROTECTION PLAN

HORIZONTAL CONTROL & STRIPING

C6.0	SIGNING AND STRIPING GENERAL NOTES & DETAILS
C6.1	HORIZONTAL CONTROL & STRIPING PLAN
C6.2	HORIZONTAL CONTROL & STRIPING PLAN
C6.3	HORIZONTAL CONTROL & STRIPING PLAN
C6.5	HORIZONTAL CONTROL & STRIPING PLAN

EROSION CONTROL

C7.0	EROSION CONTROL PLAN GENERAL NOTES & DETAILS
C7.1	EROSION CONTROL PLAN

EXISTING PARCELS ASSESSOR PARCEL NUMBERS

327-190-005, 006, 007, 009, 010, 011, 012, 014, 015, 017, 019, AND 026.

FLOOD ZONE "X"

RIVERSIDE COUNTY, CALIFORNIA
FIRM MAP NUMBER 06065C1445G
PANEL 1445 OF 3805
EFFECTIVE DATE: AUGUST 28, 2008.

EARTHWORK ESTIMATE

EXCAVATION	77,000 C.Y.
EMBANKMENT	117,500 C.Y.
OVEREXCAVATION (ASSUMED 2' UNDER BUILDINGS)	5,600 C.Y.
INFILTRATION TRENCH TOTAL VOLUME	9,600 C.Y.
SHRINKAGE (4%)	3,300 C.Y.
SUBSIDENCE (0.2')	11,300 C.Y.
IMPORT	45,500 C.Y.

NOTE:
THE ABOVE ARE PURE VOLUME QUANTITIES ONLY AND DO NOT INCLUDE ANY TRENCHING OR FOOTING SPOIL.
THEY ARE THE ENGINEER'S ESTIMATE AND ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR SHALL PROVIDE INDEPENDENT ESTIMATE FOR BIDDING AND CONTRACT PURPOSES.

CONSTRUCTION NOTES

NO.	DESCRIPTION
	GRADING (PRECISE GRADING CONSTRUCTION ITEMS, SEE SHEETS C2.1, C2.2, C2.3 & C2.5)
1A	CONSTRUCT 3" AC/ 7" AB CLASS II (IN PARKING AREAS).
1B	CONSTRUCT 4" AC/ 8.5" AB CLASS II (IN DRIVE AISLES).
1C	CONSTRUCT 5" AC/ 10" AB CLASS II (IN FIRE ACCESS).
1D	CONSTRUCT 6" THICK CONCRETE PAVEMENT/ 6"AB CLASS II
2	CONSTRUCT 6" TYPE "D" CURB PER COUNTY OF RIVERSIDE STD. NO. 204, AND PER DETAIL #2 ON SHEET C2.01.
3	CONSTRUCT TYPE "A-6" CURB & GUTTER PER COUNTY OF RIVERSIDE STD. NO. 200, AND PER DETAIL #3 ON SHEET C2.01
4	CONSTRUCT CURB RAMP CASE B PER COUNTY OF RIVERSIDE STD. NO. 403, AND PER DETAIL #4 ON SHEET C2.01
5	INSTALL PRECAST CONCRETE WHEEL STOP PER DETAIL #5 ON SHEET C2.01
6	CONSTRUCT 4" THICK CONCRETE STEP-OFF PER DETAIL #6 ON SHEET C2.01
7	CONSTRUCT 12" WIDE 0" CURB OPENING FOR DRAINAGE PURPOSES PER DETAIL #7 ON SHEET C2.01
8	CONSTRUCT CURB RAMP CASE A PER COUNTY OF RIVERSIDE STD. NO. 403, AND PER DETAIL #8 ON SHEET C2.01
	STORM DRAIN (ON-SITE STORM DRAIN CONSTRUCTION ITEMS, SEE SHEETS C3.1 THROUGH C3.14)
20	CONSTRUCT 24"x24" BROOKS CATCH BASIN 2424-CB WITH ADA GRATE PER DETAIL #20 ON SHEET C3.01 (OR APPROVED EQUAL).
21	CONSTRUCT 18"x18" BROOKS CATCH BASIN 1818-CB WITH ADA GRATE PER DETAIL #21 ON SHEET C3.01 (OR APPROVED EQUAL).
22a	CONSTRUCT BAFFLE BOX MODEL NO. NSBB 5-10-84 BY BIOCLEAN PER DETAIL #22a ON SHEET C3.01 (CONTRACTOR TO COORDINATE WITH MANUFACTURER).
22b	CONSTRUCT BAFFLE BOX MODEL NO. NSBB 8-12-96 BY BIOCLEAN PER DETAIL #22b ON SHEET C3.01 (CONTRACTOR TO COORDINATE WITH MANUFACTURER).
23	CONSTRUCT 36"x36" BROOKS CATCH BASIN 3636-CB PER DETAIL #23 ON SHEET C3.01 (OR APPROVED EQUAL).
24a	CONSTRUCT 12" STORM DRAIN CLEANOUT PER DETAIL #24a ON SHEET C3.02
24b	CONSTRUCT 8" STORM DRAIN CLEANOUT PER DETAIL #24b ON SHEET C3.02
25	CONSTRUCT 15' LONG CHANNEL DRAIN NDS #500 WITH BOTTOM OUTLET NDS #550, AND ADA CHANNEL GRATE NDS #541, INCLUDING REQUIRED FITTINGS (OR APPROVED EQUAL)
26	CONSTRUCT 12"x12" N.D.S. ATRIUM GRATE PER DETAIL #26 ON SHEET C3.02
27	CONSTRUCT 12"x12" N.D.S. GRATE PER DETAIL #27 ON SHEET C3.02
28	CONSTRUCT 9"x 9" N.D.S. GRATE PER DETAIL #28 ON SHEET C3.02
29	CONSTRUCT 6" N.D.S. GRATE PER DETAIL #29 ON SHEET C3.02
30	CONSTRUCT 6" N.D.S. ATRIUM GRATE PER DETAIL #30 ON SHEET C3.02
31	CONSTRUCT 18"x18" N.D.S. ATRIUM GRATE PER DETAIL #31 ON SHEET C3.02
32	CONSTRUCT MANHOLE NO. 4 PER RCFC & WCD STD. DWG MH254, AND PER DETAIL #32 ON SHEET C3.01
33	CONSTRUCT MANHOLE NO. 1 PER RCFC & WCD STD. DWG MH251, MODIFIED WITH 36" ALHAMBRA FOUNDRY GRATED COVER A-1558-36
34	CONSTRUCT MANHOLE NO. 2 PER RCFC & WCD STD. DWG MH252
35	CONSTRUCT MANHOLE NO. 4 PER RCFC & WCD STD. DWG MH254, MODIFIED WITH 36" ALHAMBRA FOUNDRY GRATED COVER A-1558-36, PER DETAIL #35 ON SHEET C3.01
36	CONSTRUCT 4" PVC (SDR 35) PIPE INCLUDING REQUIRED FITTINGS (OR APPROVED EQUAL). PIPE BEDDING PER DETAIL "B" ON SHEET C3.02
37	CONSTRUCT 6" PVC (SDR 35) PIPE INCLUDING REQUIRED FITTINGS (OR APPROVED EQUAL). PIPE BEDDING PER DETAIL "B" ON SHEET C3.02
38	CONSTRUCT 8" PVC (SDR 35) PIPE INCLUDING REQUIRED FITTINGS (OR APPROVED EQUAL). PIPE BEDDING PER DETAIL "B" ON SHEET C3.02
39	CONSTRUCT 12" PVC (SDR 35) PIPE INCLUDING REQUIRED FITTINGS (OR APPROVED EQUAL). PIPE BEDDING PER DETAIL "B" ON SHEET C3.02
40	CONSTRUCT 18" H.D.P.E. PIPE INCLUDING REQUIRED FITTINGS AND WATER TIGHT JOINTS. PIPE BEDDING PER DETAIL "B" ON SHEET C3.02
41	CONSTRUCT 24" H.D.P.E. PIPE INCLUDING REQUIRED FITTINGS AND WATER TIGHT JOINTS. PIPE BEDDING PER DETAIL "B" ON SHEET C3.02
42	CONSTRUCT 30" H.D.P.E. PIPE INCLUDING REQUIRED FITTINGS AND WATER TIGHT JOINTS. PIPE BEDDING PER DETAIL "B" ON SHEET C3.02
43	CONSTRUCT 36" H.D.P.E. PIPE INCLUDING REQUIRED FITTINGS AND WATER TIGHT JOINTS. PIPE BEDDING PER DETAIL "B" ON SHEET C3.02
44	CONSTRUCT 42" H.D.P.E. PIPE INCLUDING REQUIRED FITTINGS AND WATER TIGHT JOINTS. PIPE BEDDING PER DETAIL "B" ON SHEET C3.02
45	CONSTRUCT 42" PERFORATED H.D.P.E. PIPE INCL. REQUIRED FITTINGS, WITH PERFORATION AROUND LOWER HALF OF THE PIPE.
46	CONSTRUCT 8" PERFORATED H.D.P.E. PIPE INCL. REQUIRED FITTINGS, WITH PERFORATION AROUND ENTIRE PIPE CIRCUMFERENCE.
47	CONSTRUCT JUNCTION STRUCTURE NO. 4 PER RCFC & WCD STD. DWG JS229
48	CONSTRUCT SUBSURFACE DRAIN INLET PER DETAIL #48 ON SHEET C3.11
49	CONSTRUCT 4" ADS MICRO-SLOTTED PERFORATED FLEX PIPE INCLUDING REQUIRED FITTINGS (OR APPROVED EQUAL) PER DETAIL #49 ON SHEET C3.9
	WATER – PRIVATE (PRIVATE SEWER & WATER CONSTRUCTION ITEMS, SEE SHEET C4.1 THROUGH C4.6)
50	CONSTRUCT 4" PVC AWWA C-900, CL150 PIPE WITH TRACING WIRE PER E.M.W.D. STD. DWG. B-533 & B-656. PIPE BEDDING PER E.M.W.D. STD. DWG. B-408, AND TRENCH BACKFILL PER E.M.W.D. STD. DWG. B-2868.
51	CONSTRUCT 3" PVC PIPE, CL200 WITH TRACING WIRE PER E.M.W.D. STD. DWG. B-533 & B-656. PIPE BEDDING PER E.M.W.D. STD. DWG. B-408, AND TRENCH BACKFILL PER E.M.W.D. STD. DWG. B-2868.
52	CONSTRUCT 2 1/2" PVC PIPE, CL200 WITH TRACING WIRE PER E.M.W.D. STD. DWG. B-533 & B-656. PIPE BEDDING PER E.M.W.D. STD. DWG. B-408, AND TRENCH BACKFILL PER E.M.W.D. STD. DWG. B-2868.
53	CONSTRUCT 2" PVC PIPE, CL200 WITH TRACING WIRE PER E.M.W.D. STD. DWG. B-533 & B-656. PIPE BEDDING PER E.M.W.D. STD. DWG. B-408, AND TRENCH BACKFILL PER E.M.W.D. STD. DWG. B-2868.
54	CONSTRUCT 1 1/2" PVC PIPE (SCH 40) WITH TRACING WIRE PER E.M.W.D. STD. DWG. B-533 & B-656. PIPE BEDDING PER E.M.W.D. STD. DWG. B-408, AND TRENCH BACKFILL PER E.M.W.D. STD. DWG. B-2868.
	SEWER – PRIVATE
60	JOIN EXISTING SEWER CLEAN-OUT AT PUBLIC RIGHT-OF-WAY PER E.M.W.D. STD. DWG. SB-52.
61	CONSTRUCT 6" PVC (SDR 35) SEWER LINE, PIPE BEDDING PER E.M.W.D. STD. DWG. SB-157.
62	CONSTRUCT 4" PVC (SDR 35) SEWER LINE, PIPE BEDDING PER E.M.W.D. STD. DWG. SB-157.
63	CONSTRUCT 12"x12" BROOKS CATCH BASIN 1212-CB AT WASH AREA, PER DETAIL #63 ON SHEET C4.2.
64	CONSTRUCT SEWER CLEANOUT PER E.M.W.D. STD. DWG. SB-52.
65	CONSTRUCT 1500 GAL GREASE INTERCEPTOR WITH SAMPLE BOX, MODEL 5106TK1500G-S-S09A-AM BY JENSEN PRECAST PER DETAIL #65 ON SHEET C4.1 (OR APPROVED EQUAL).
66	CONSTRUCT 750 GAL SAND AND GREASE INTERCEPTOR WITH SAMPLE BOX, MODEL PC SG-750 BY PRO-CAST PER DETAIL #66 ON SHEET C4.2 (OR APPROVED EQUAL).
67	CONSTRUCT 3" PVC (SDR 35) SEWER LINE, PIPE BEDDING PER E.M.W.D. STD. DWG. SB-157.
	WATER – UNDERGROUND FIRE PROTECTION (UNDERGROUND FIRE PROTECTION CONSTRUCTION ITEMS, SEE SHEETS C5.2, C5.3 & C5.4)
70	CONNECT PROPOSED 8" PVC WATER LINE TO PROPOSED 8" DOUBLE CHECK DETECTOR ASSEMBLY PER SEPARATE OFF-SITE SEWER AND WATER PLAN.
71	INSTALL BLUE REFLECTIVE MARKER PER CFC 901.4.3 AND DETAIL ON SHEET C5.02.
72	CONSTRUCT 8" PVC AWWA C-900, CL150, WATER LINE WITH PIPE BEDDING PER E.M.W.D. STD. DWG. B-408 ON SHEET C5.02.
73	CONSTRUCT 6" PVC AWWA C-900, CL150, WATER LINE WITH PIPE BEDDING PER E.M.W.D. STD. DWG. B-408 ON SHEET C5.02.
74	CONSTRUCT 4"x 2 1/2"x 2 1/2" FIRE DEPARTMENT CONNECTION (FDC) PER DETAIL #74 ON SHEET C5.02 INCLUDING REQUIRED FITTINGS AND THRUST BLOCK PER DETAIL ON SHEET C5.01. PROVIDE IDENTIFICATION SIGN ON F.D.C. PER DETAIL #74 ON SHEET C5.02.
75	INSTALL 6" POST INDICATOR VALVE PER DETAIL #75 ON SHEET C5.02.
76	INSTALL 6" FIRE RISER PER DETAIL #76 ON SHEET C5.02.
77	CONSTRUCT 6" FIRE HYDRANT PER E.M.W.D. STD. DWG. B-362 ON SHEET C5.02.
78	INSTALL 8"x 22 1/2° BEND PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
79	INSTALL 8"x 11 1/4° BEND PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
80	CONSTRUCT 8" GATE VALVE PER E.M.W.D. STD. DWG. B-255 ON SHEET C5.02.
81	INSTALL 8"x 45° BEND PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
82	INSTALL 8"x 8"x 8" TEE PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
83	INSTALL 8"x 8"x 6" TEE PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
84	INSTALL 6"x 90° BEND PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
85	INSTALL 6"x 45° BEND PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
86	INSTALL 6"x 22 1/2° BEND PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
87	INSTALL 6"x 11 1/4° BEND PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
88	INSTALL 6"x 6"x 6" TEE PER E.M.W.D. STD. DWG. B-663 ON SHEET C5.02 AND THRUST BLOCK PER DETAIL ON SHEET C5.01.
	SIGNING AND STRIPING (SIGNING AND STRIPING ITEMS, SEE SHEETS C6.1, C6.2, C6.3 & C6.5)
100	INSTALL PARKING STALL STRIPING PER DETAIL #100 ON SHEET C6.0
101	INSTALL REFLECTIVE R99R SIGN, SEE DETAIL #101 ON SHEET C6.0
102	INSTALL REFLECTIVE R99AR SIGN ("VAN ACCESSIBLE"), SEE DETAIL #102 ON SHEET C6.0
103	INSTALL REFLECTIVE R100B SIGN, SEE DETAIL #103 ON SHEET C6.0
104	INSTALL HANDICAPPED PARKING STALL STRIPING PER DETAIL #104 ON SHEET C6.0
105	APPLY THERMOPLASTIC 12" WHITE STRIPE AND "STOP" LEGEND PER CALTRANS STD. DWG. A24D AND A24E.
106	INSTALL R1-1 "STOP" SIGN.

MIG
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TEL 714/871-3638 FAX 714/871-1188 www.migcom.com

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LRA ENGINEERS

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Perris, California, 92570

SHEET TITLE

PRECISE GRADING PLAN TITLE SHEET

100% CONSTRUCTION DOCUMENT

DATE	REVISIONS

STAMP

REGISTERED PROFESSIONAL ENGINEER DAVID LEE BACON No. 40496 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

CHECKED BY	DATE
D.B.	01-07-10

DATE	FILE NAME
01-07-10	

DRAWN BY	SHEET
B.A.	C1.0
JOB NO. 05208.00	
SCALE AS SHOWN	12 OF 313 SHEETS