# GENERAL NOTES

- 1. ALL WORK SHALL CONFORM TO THE "STANDARD PLANS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" 1988 (2 BOOKS) SUPPLEMENTED BY THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS ROAD AND FLOOD CONTROL STANDARD PLANS.
- WORK IN PUBLIC STREETS, ONCE BEGUN. SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELLING PUBLIC. FAILURE TO COMPLY WITH THIS REQUIREMENT IS A VIOLATION OF TITLE 16 OF THE COUNTY CODE, HIGHWAY PERMIT CODE.
- 3. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH SUBDIVISION CONSTRUCTION.
- 4. THERE SHALL BE NO ABOVE GROUND OBSTRUCTION IN ANY PORTION OF THE SIDEWALK EXCEPT WHERE THE WIDTH, EXCLUSIVE OF TOP OF CURB. IS 6' OR GREATER
- 5. PROVIDE A STREET LIGHTING SYSTEM APPROVED BY THE STREET LIGHTING SECTION. TRAFFIC AND LIGHTING DIVISION; AND PROVIDE FOR THE TEMPORARY OPERATIONS OF THE STREET LIGHTING SYSTEM.
- 6. PROCESSED MISCELLANEOUS BASE MAY BE USED UNDER CURB AND GUTTER IN LIEU OF CRUSHED AGGREGATE BASE.
- 7. PROCESSED MISCELLANEOUS BASE OR SELECT MATERIAL WITH EXPANSION OF 3% OR LESS BY THE DEPARTMENT OF PUBLIC WORKS CBS SAIL TEST MAY BE USED IN LIEU OF CRUSHED AGGREGATE BASS UNDER WALKS.
- 8. ALL UTILITY LINES SHALL BE UNDERGROUND PER SECTION 21.24.400. OF TITLE 21 OF LOS ANGELES COUNTY CODE. CONTACT CONSTRUCTION DIVISION AT C818) 458-3141 FOR NEW LOCATION OF ABOVE GROUND UTILITY STRUCTURE IN PARKWAY.
- ALL CONSTRUCTION JOINTS FOR P.C.C. CURBS. DRIVEWAYS AND SIDEWALKS SHALL BE IN ACCORDANCE WITH APWA STANDARD PLAN NO.103-0

## LEGAL DESCRIPTION

LOT 6 OF TRACT NO. 8408 IN THE CITY OF WALNUT, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA AS PER MAP RECORDED IN BOOK 172, PAGES 30 AND 31 OF MAPS. IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

APN 8709-016-005

## BASIS OF BEARINGS

THE BEARING N 73.52.30"" E OF THE CENTERLINE OF MARCON DRIVE AS SHOWN ON TRACT MAP 8408; P.M.B. 172/30-31 IS TAKEN AS THE BASIS OF BEARINGS OF THIS MAP.

## BENCH MARK

ROBM TAG 5 FT E. BCR 32 FT. S. + 68 FT. E C/L INT OF LA PUENTE ROAD & PIERRE

BM NO. CG-3416; ELEVATION = 576.463 (1975 ADJ.)

### **ENGINEER'S NOTICE:**

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 IN THIS PROJECT, EXPECTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

ALL UNDERGROUND UTILITIES OR STRUCTURES, REPORTED OR FOUND ON PUBLIC RECORDS. ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH THE IMPROVEMENTS HEREON, AGREES TO ASSUME LIABILITY AND HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED OR INDICATED ON PUBLIC RECORDS. OR THOSE CONSTRUCTED AT VARIANCE WITH REPORTED OR RECORDED LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROJECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OR ALL UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS, ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

QUANTITIES SHOWN ARE FOR BONDING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR VERFYING ALL QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION.

# STORM DRAIN IMPROVEMENT PLAN FOR TRACT MAP 53051

THE FOLLOWING GENERAL NOTES ARE TO BE INCLUDED ON THE TITLE SHEET OF ALL P.D. PLANS:

A PERMIT SHALL BE OBTAINED AND A DEPOSIT PAID TO THE' CITY OF WALNUT AT LEAST 72 HOURS PRIOR TO STARTING WORK UNDER THIS CONTRACT. COPIES OF ALL OTHER REQUIRED PERMITS, SUCH AS ROAD EXCAVATION, MUST BE FILED WITH THE PERMIT APPLICATION.

THE CONTRACTOR SHALL CONTACT THE CITY OF WALNUT TO ARRANGE FOR AN ACCEPTABLE CONSTRUCTION START DATE.

APPROVAL OF THIS PLAN BY THE CITY OF WALNUT DOES NOT CONSTITUTE A REPRESENTATION TO THE ACCURACY OF THE LOCATION, OR THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY, PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL SHEETS.

ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1988 EDITION." INCLUDING SUPPLEMENTS AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE CITY ENGINEER.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10.41 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS AND SHALL CONFORM TO THE "MINIMUM PUBLIC SAFETY REQUIREMENTS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD S-2

ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929, UNLESS OTHERWISE

NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED.

ALL STRUCTURAL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 3250 PSI. UNLESS OTHERWISE NOTED.

TRANSVERSE REI NFORCEME NT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO THE CONDUIT CENTER LINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.

ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE 21/2" CLEARANCE UNLESS OTHERWISE

REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL, PER A.S.T.M. A-615 GRADE

ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE".

DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTER LINE OF STEEL UNLESS OTHERWISE

ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18" WHICHEVER IS GREATER.

ALL CONSTRUCTION JOINTS IN THE FOOTING OF SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGO ERING OF JOINTS WILL BE PERMITTED

ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER

UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTERLINE OF CONSTRUCTION.

THE INSPECTOR SHALL HAVE THE OPTION TO REQUIRE CONCRETE BACKFILL DURING CONSTRUCTION WHEN THE PIPE HAS LESS THAN ONE FOOT OF COVER. THE CONCRETE BACKFILL SHALL CONSIST OF 1:3:5 MIX. PORTLAND CEMENT CONCRETE POURED FROM WALL TO WALL OF TRENCH AND FROM BOTTOM OF TRENCH TO A MINIMUM OF 4 INCHES OVER THE TOP OF THE PIPE.

ALL PIPES SHALL BE PLACED IN TRENCH IN NATURAL GROUND AND/OR COMPACTED FILL. THE GROUND LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST3 FEET ABOVE THE TOP OF THE PIPE ELEVATION, OR AT FINISH SURFACE ELEVATION, WHICHEVER IS LESS.

ALL BACKFILL AND FILLS OUTSIDE OF STREET RIGHT OF WAY SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM SOIL COMPACTION TEST D 1557-78 METHOD "DI, UNLESS OTHERWISE SPECIFIED. THIS SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER. THIS CERTIFICATION SHALL BE SUBMITTED TO THE CITY ENGINEER - PRIOR TO ACCEPTANCE OF THE WORK BY THE CITY.

ALL BACKFILL AND FILLS WITHIN STREET RIGHT OF WAY SHALL BE COMPACTED IN ACCORDANCE WITH SEC TION 306-1.3.4 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED AND INSPECTED BY THE DEPARTMENT. CONTRACTOR SHALL NOTIFY THE INSPECTOR AT LEAST 24 HOURS IN ADVANCE FOR SOIL TESTING AS REQUIRED BY THE INSPECTOR.

PIPE BEDDING SHALL BE:

IN ACCORDANCE WITH C ITY OF WALNUT ENGINEER CASE AD BEDDING PER STANDARD DRAWING D-64 UNLESS OTHERWISE NOTED. THE BEDDING MATERIAL PLACED FROM THE BOTTOM OF THE PIPE TO 1 FOOT OVER THE TOP OF THE PIPE SHALL BE SAND, CRUSHED AGGREGATE, OR NATIVE FREE-DRAINING GRANULAR MATERIAL AND SHALL HAVE A SAND EQUIVALENT OF 20 OR GREATER.

ACCORDING TO STANDARD DRAWING NO. 2-DL 77, CASE 111, EXCEPT BELL AND SPIGOT PIPE WHICH SHALL BE CASE 11 BEDDING, UNLESS OTHERWISE SHOWN. "W"VALUES SHALL BE AS SPECIFIED ON STANDARD DRAWING NO. 2-13177 FOR CASE III BEDDING, NOTES 3 (A), 3 (B), AND 3 (C). IF THE "W": VALUE ATTHE TIP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED, AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED. THE PROPOSED MODIFICATION SHALL BE APPROVED BY THE

PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET AND OUTLET HEADWALLS, UNLESS OTHERWISE SPECIFIED.

PIPE AS SPECIFIED IN PROFILE ON THESE PLANS SHALL BE MANUFACTURED WITH AN ADDITIONAL CONCRETE THICKNESS OVER THE INVERT REINFORCEMENT.

ALL CATCH BASINS WITHIN THE DEDICATED STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED PER THE STREET PLANS.

THE CONTRACTOR MAY HAVE TO HAVE DESIGNED BY A CIVIL ENGINEER AND SHALL PROVIDE TO THE SATISFACTION OF THE CITY ENGINEER, A SYSTEM FOR CONTRIBUTORY DRAINAGE TO BE OPERABLE AT ALL TIMES UNTIL THIS STORM DRAIN SYSTEM IS ACCEPTED.

ALL REFERENCES ON THIS PLAN TO THE CITY ENGINEER, ROAD DEPARTMENT, OR FLOOD CONTROL DISTRICT SHALL APPLY TO THE APPROPRIATE ELEMENTS OF THE CITY OF WALNUT.

EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

WHERE THE UTILITIES ARE INDICATED ON THE DRAWINGS TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION NO. 224-0, UNLESS OTHERWISE INDICATED.

ALL OPENINGS RESULTING FROM THE CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES SHALL BE SEALED WITH 8 INCHES OF BRICK AND MORTAR AND 6 INCHES OF CONCRETE, UNLESS OTHERWISE SHOWN. 1

MANHOLES NO. 1, 2,3, AND 4, SHALL USE THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION 630-0 FOR THE "FRAME AND COVER" AND 635-0 FOR THE "STANDARD DROP STEP".

THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT TO GRADE AND THE SYSTEM CLEANED TO SATISFACTION OF THE CITY ENGINEER.

CALL THE CITY ENGINEER OFFICE FOR INSPECTION AT (714) 594-9702 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

#### RIPRAP NOTES

ROCKS FOR GROUTED RIPRAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUM ROCK. THE SMALLEST DIMENSIONS SHALL EXCEED 3 INCHES AND THE LARGEST DIMENSION SHALL NOT EXCEED 18 INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.

THERE SHALL BE A GROUT BED OF AT LEAST 2 INCHES BENEATH THE FIRST LAYER OFROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2 INCHES.

SURFACE ROCKS SHALL BE EMBEDDED FROM 1/2 TO 2/3 OF THEIR MAXIMUM DIMENSION.

## CONSTRUCTION NOTES & QUANTITY ESTIMATE

(51) CONSTRUCT CATCH BASIN (W=7'; V=12.83') PER APWA STANDARD PLAN 300-2 1 EA

(52) CONSTRUCT LOCAL DEPRESSION PER APWA STANDARD 313-1, CASE E

63) CONSTRUCT MANHOLE PER APWA STANDARD NO. 321-1

64) CONSTRUCT 18" RCP (D-1750) STORM DRAIN PIPE IN 24" CASING

(55) CONSTRUCT JUNCTION STRUCTURE (PIPE TO PIPE) INTO EXISTING 63" RCP PER APWA STANDARD NO. 332-1, CASE 1.

## NOTE:

QUANTITIES SHOWN ARE FOR BONDING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION.

"\*" INDICATED THE PAVEMENT SECTION SHALL BE SUBMITTED SOIL ENGINEER'S APPROVAL. ALL PAVEMENT SECTION RECCOMMENDATIONS BASED ON "R" VALUE ANALYSIS OF THE SUB-GRADE SOIL, AND TRAFFIC INDEX.



NO. DATE

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. FOR YOUR DIG ALERT ID NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG.

REVISIONS

DESCRIPTION

1 EA

HWY 60 HWY 60 VICINITY MAP

## SHEET INDEX

DRIVE

SHEET 1: TITLE SHEET SHEET: PLAN & PROFILE

#### LEGEND:

TOP OF CURB FLOW LINE FINISHED SURFACE FINISHED GRADE FINISHED FLOOR GARAGE FLOOR TOP OF WALL TOP OF FOOTING HEIGHT LENGTH PROPERTY LINE RIGHT-OF-WAY RETAINING WALL EXISTING ELEVATION PROPOSED ELEVATION TEMPORY BENCH MARK BENCH MARK CUT FILL NATURAL ---- PROPERTY LINE EXISTING CONTOURS PROPOSED CONTOURS ----- LIMIT OF OVEREXCAVATION

----- CUT/FILL DAYLIGHT LINE

CITY OF WALNUT

STORM DRAIN IMPROVEMENT FOR

TRACT MAP 53051 TRI NET COURT (STA. 0+00.00 - 3+04.30)

## OWNER/DEVELOPER:

21709 FERRERO PARKWAY INDUSTRY, CA 91789 TEL: (909) 598-8818 FAX: (909) 594-2666

SOIL ENGINEER:

FAX: (562) 698-5771

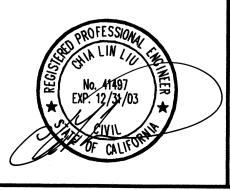
## HU ASSOCIATES, INC.

11955 RIVERA ROAD SANTA FE SPRINGS, CA 90670-2209 TEL: (562) 696-6062

PLAN PREPARED BY:

FOCUS ENGINEERING, INC. CIVIL ENGINEERS LAND SURVEYORS

25 MAUCHLY, SUITE 317 IRVINE, CA 92618 TEL. (949) 450-0590 FAX. (949) 450-0592



PLAN APPROVED BY: CITY OF WALNUT

5/24/01 DAVID G. GILBERTSON DEPUTY CITY ENGINEER R.C.E. 46624

SHEET

