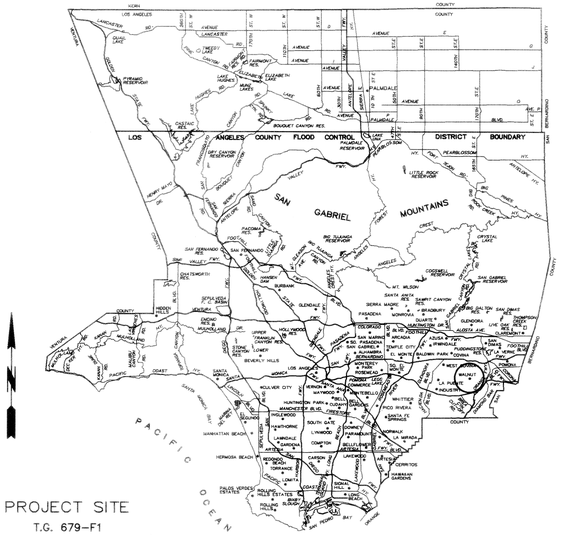
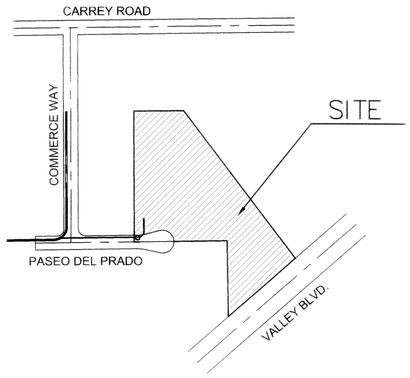
COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

MTD 1682
PASEO DEL PRADO



PROJECT SITE
T.G. 679-F1

LOCATION MAP



KEY MAP
1" = 100'

INDEX TO PROJECT DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES, WATER QUALITY NOTES
3	PLAN AND PROFILE
4	CDS DETAIL

MTD 1682 IS NOT ELIGIBLE FOR TRANSFER TO THE COUNTY FOR MAINTENANCE UNTIL MTD 900 IS TRANSFERED.

INDEX TO STANDARD DRAWINGS

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
CITY OF WALNUT

DWG. NO.	DESCRIPTION
WS-507	TRENCH REPAVEMENT SECTION

AMERICAN PUBLIC WORKS ASSOCIATION

STD. PLAN	TITLE
320-1	MANHOLE

BENCH MARKS
FD B.M. TAG NEAR THE CENTER OF B.C.R., 65 FEET NORTHERLY AND 30 FEET WESTERLY OF THE CENTERLINE INTERSECTION OF VALLEY BOULEVARD. AND PIERRE ROAD.
Elev. 543.024 (1975) BM# CG3735

PRIVATE ENGINEERS NOTICE TO CONTRACTORS

The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of our knowledge, there are no existing utilities except as shown on this map. The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines not of record or shown on this drawing.

Danny M. Pierce 6-11-02
DANNY M. PIERCE RCE 24979 DATE

S.P.C. 128-2000

CITY OF WALNUT
APPROVED
DAVID G. GILBERTSON RCE 46624 DEPUTY CITY ENGINEER — 4/14/02 DATE

APPROVED JAMES A. NOYES DIRECTOR OF PUBLIC WORKS
BY ASSISTANT DIVISION ENGINEER DATE

RECOMMENDED LAND DEVELOPMENT DIVISION
BY SUBDIVISION PLAN CHECKING SECTION DATE

SUBMITTED
BY SUBDIVISION PLAN CHECKING SECTION DATE

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER DANNY M. PIERCE No. 24979 Exp. 12/31/05 CIVIL STATE OF CALIFORNIA
Danny M. Pierce 6-11-02
PROJECT ENGINEER DATE

MTD NO. 1682 – STORM DRAIN PLANS IN PASEO DEL PRADO, CITY OF WALNUT
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GVW ENGINEERING, INC.
667 S. BREA CANYON RD., SUITE 27
WALNUT, CA. 91789
(909)594-0552 FAX. (909)594-5670

DWG | SHEET 1 OF 4

1062302

wsd-01rev.dwg Edited June 05, 2002 2:10PM :)

H 186 A

GENERAL NOTES

1. A permit shall be obtained and a deposit paid to the Department of Public Works at the Permit Counter, 900 South Fremont Avenue 8th Floor, Alhambra at least 72 hours prior to starting work under this contract. Copies of all other required permits, such as Flood Control District and Road Excavation, must be filed with the permit application.
2. When work is within a contract city, the contractor must contact the Director of Public Works of that City to determine the location to pay the inspection deposit.
3. The Contractor shall contact the District office listed on the "Application for Storm Drain Construction Inspection Form I" to arrange for an acceptable construction start date.
4. Approval of this plan by the County of Los Angeles does not constitute a representation as 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.
5. All work shall be in accordance with the latest adopted edition of the "Standard Specifications for Public Works Construction, " including supplements and shall be prosecuted only in the presence of the Director of Public Works.
6. The contractor's attention is directed to Section 7-10.4.1 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 Department of Public Works Standard Plan 6008.
7. Elevations are in feet above U.S.C. & G.S. Mean Sea Level Datum of 1929, unless otherwise indicated.
8. No concrete shall be placed until the forms and reinforcing steel have been placed, inspected and approved.
9. All structural concrete shall be portland cement concrete with an ultimate 28 day compressive strength of 4000 p.s.i unless otherwise noted.
10. Transverse reinforcement and transverse joints shall be placed at right angles (or radial) to the conduit center line except as otherwise shown on the drawings.
11. All steel adjacent to face of concrete shall have 2-1/2-inch clearance unless otherwise specified.
12. Reinforcement shall be deformed bars of intermediate grade steel per A.S.T.M. A-615-Grade 60.
13. All bar bends and hooks shall conform to the American Concrete Institute "Manual of Standard Practice."
14. Dimensions from face of concrete to steel are to center line of steel unless otherwise noted.
15. All steel that is to be continuous shall have a minimum lap of 30 bar diameters or 18 inches whichever is greater.
16. All construction joints in the footing of slabs and walls shall be in the same plane. No staggering of joints will be permitted.
17. All exposed edges shall be finished with a 3/4 inch chamfer.
18. Unless otherwise shown, concrete dimensions shall be measured vertically or horizontally and parallel or at right angles (or radial) to the center line of construction.
19. Concrete backfill is required 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.
20. All pipes shall be placed in a trench in natural ground and/or compacted fill. The ground level before the trenching shall be at least 3 feet above the top of the pipe elevation, or at finish surface elevation, whichever is less.
21. All backfill dry fills outside of street right of way shall be compacted to a minimum relation compaction of 90 percent of maximum density dry as determined by ASTM Soil Compaction Test D 1557-91 Method "D" unless otherwise specified. This shall be certified by a soils engineer. This certification shall be submitted to the Director of Public Works prior to acceptance of the work by the County.
22. All backfill and fills within street right of way shall be compacted in accordance with Section 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.
23. Pipe bedding shall be:

    In accordance with Los Angeles County Department of Public Works Standard Plan No. 3092 unless otherwise noted.
24. Pipe shall be embedded 5 inches into all structures including inlet and outlet headwalls, unless otherwise specified.
25. "Unless otherwise specified in the profile on these plans, the pipe shall be manufactured with a minimum concrete cover over the steel in the invert of 0.75 inches for RCP up to 96 inches in diameter and 1.25 inches for pipe greater than 96 inches in diameter."
26. All catch basins within the dedicated street right of way shall be constructed per the street plans.
27. The contractor shall provide to the satisfaction of the Director of Public Works a drainage system for contributory flows to be operable at all times until this storm drain system is accepted for maintenance. The design of the drainage system must be prepared under the direction of a Civil Engineer.
28. All references on this plan to the County Engineer, Road Department, or Flood Control District shall apply to the appropriate elements of the Department of Public Works.
29. Existing utilities shall be maintained in place by the contractor, unless otherwise noted.
30. 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, unless otherwise indicated.
31. 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 or 6 inches of concrete, unless otherwise shown.
32. Manholes shall use the Standard Plans for Public Works Construction No. 630 for the "Frame and Cover" and No. 635 for the "Standard Drop Step."
33. This storm drain will not be field accepted until the streets have been paved, manholes brought to grade and the system cleaned to satisfaction of the Director of Public Works.
34. An NPDES permit from the Regional Water Quality Control Board is required before any discharge of non-storm water into the storm drain is allowed.
35. The latest revised standard plan or drawing shall be used unless otherwise specifiedly noted.

STORMWATER POLLUTION CONTROL REQUIREMENTS FOR STORM DRAIN CONSTRUCTION

A. NOTES:

1. Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses, or wind.
2. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
3. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
4. Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
5. Trash and construction-related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
6. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
7. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.

B. The following BMPs as outlined in, but not limited to, the Best Management Practice Handbook, California Stormwater Quality Task Force, Sacramento, California 1993, or the latest revised edition, may apply during construction (additional measures may be required if deemed appropriate by inspector):

CA001 – DEWATERING OPERATIONS
CA002 – PAVING OPERATIONS
CA003 – STRUCTURE CONSTRUCTION AND PAINTING
CA010 – MATERIAL DELIVERY AND STORAGE
CA012 – SPILL PREVENTION AND CONTROL
CA020 – SOLID WASTE MANAGEMENT
CA021 – HAZARDOUS WASTE MANAGEMENT
CA023 – CONCRETE WASTE MANAGEMENT
CA030 – VEHICLE AND EQUIPMENT CLEANING
CA031 – VEHICLE AND EQUIPMENT FUELING
CA032 – VEHICLE AND EQUIPMENT MAINTENANCE
CA040 – EMPLOYEE/SUBCONTRACTOR TRAINING
ESC01 – SCHEDULING
ESC02 – PRESERVATION OF EXISTING VEGETATION
ESC10 – SEEDING AND PLANTING
ESC11 – MULCHING
ESC20 – GEOTEXTILES AND MATS
ESC21 – DUST CONTROLS
ESC22 – TEMPORARY STREAM CROSSING
ESC23 – CONSTRUCTION ROAD STABILIZATION
ESC24 – STABILIZED CONSTRUCTION ENTRANCE
ESC30 – EARTH DIKE
ESC31 – TEMPORARY DRAINS AND SWALES
ESC32 – SLOPE DRAIN
ESC40 – OUTLET PROTECTION
ESC41 – CHECK DAMS
ESC50 – SILT FENCE
ESC51 – STRAW BALE BARRIERS
ESC52 – SAND BAG BARRIER
ESC53 – BRUSH OR ROCK FILTER
ESC54 – STORM DRAIN INLET PROTECTION

HYDRAULIC ELEMENTS

25 YR. FREQUENCY

LINE	PIPE FROM STA.	REACH TO STA.	Q_{25} (CFS)	SECTION	VELOCITY (FPS)	REMARKS
A	0+02.63	2+51.25	5.77	24" RCP	1.84	
A	2+56.25	3+01.59	5.77	18" RCP	3.27	

CITY OF WALNUT
APPROVED

DAVID G. GILBERTSON RCE 46624 — DATE
DEPUTY CITY ENGINEER

REVIEWED LAND DEVELOPMENT DIVISION

BY _____ DATE
SUBDIVISION PLAN CHECKING SECTION

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER
DANNY M. PIERCE
No. 24979
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 6-11-02

S. P. C. 128-2000

MTD NO. 1682 – STORM DRAIN PLANS IN PASEO DEL PRADO, CITY OF WALNUT

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

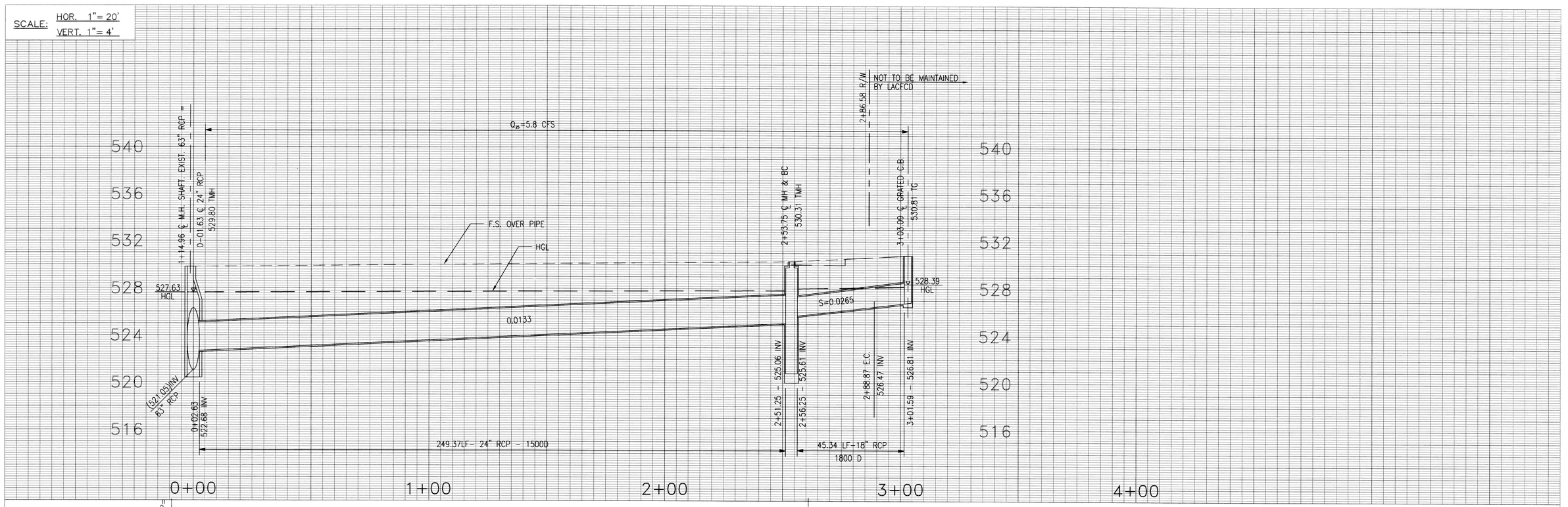
GVW ENGINEERING, INC.
667 S. BREA CANYON RD., SUITE 27
WALNUT, CA. 91789
(909)594-0552 FAX. (909)594-5670

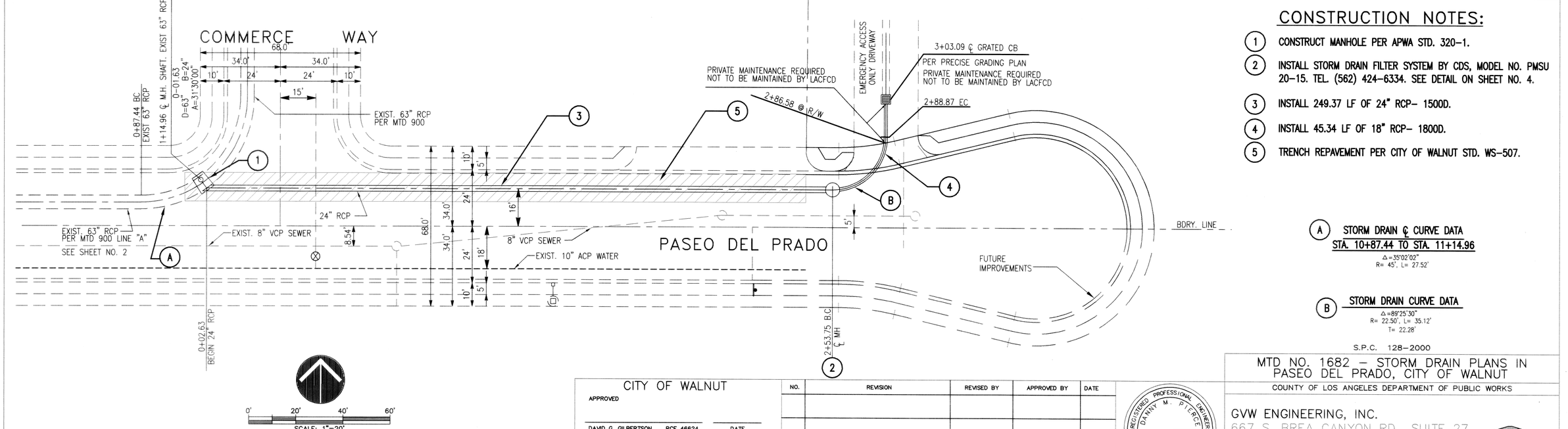
DWG

wsd-02.dwg Edited June 11, 2002 3:20 PM :)

#186 B

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





CONSTRUCTION NOTES:

1. CONSTRUCT MANHOLE PER APWA STD. 320-1.
2. INSTALL STORM DRAIN FILTER SYSTEM BY CDS, MODEL NO. PMSU 20-15. TEL. (562) 424-6334. SEE DETAIL ON SHEET NO. 4.
3. INSTALL 249.37 LF OF 24" RCP- 1500D.
4. INSTALL 45.34 LF OF 18" RCP- 1800D.
5. TRENCH REPAVEMENT PER CITY OF WALNUT STD. WS-507.

(A) STORM DRAIN ℄ CURVE DATA
STA. 10+87.44 TO STA. 11+14.96
Δ=35°02'02"
R= 45', L= 27.52'

(B) STORM DRAIN CURVE DATA
Δ=89°25'30"
R= 22.50', L= 35.12'
T= 22.28'

S.P.C. 128-2000

CITY OF WALNUT
APPROVED
DAVID G. GILBERTSON RCE 46624 DEPUTY CITY ENGINEER — DATE

REVIEWED LAND DEVELOPMENT DIVISION
BY SUBDIVISION PLAN CHECKING SECTION — DATE

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER
DANNY M. PIERCE
No. 24979
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA
PROJECT ENGINEER — DATE 6-11-02

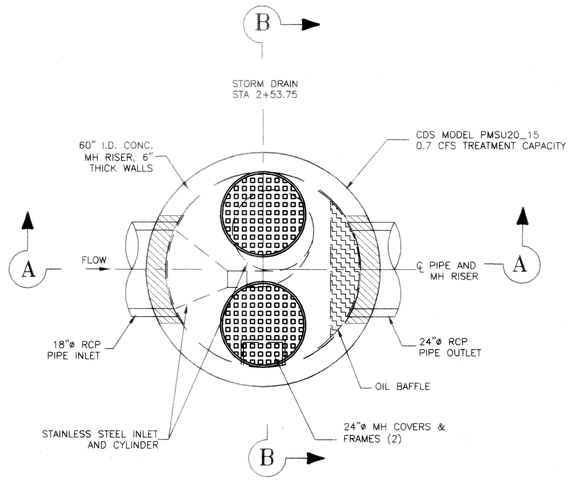
MTD NO. 1682 – STORM DRAIN PLANS IN PASEO DEL PRADO, CITY OF WALNUT
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

GVW ENGINEERING, INC.
667 S. BREA CANYON RD., SUITE 27
WALNUT, CA. 91789
(909)594-0552 FAX. (909)594-5670

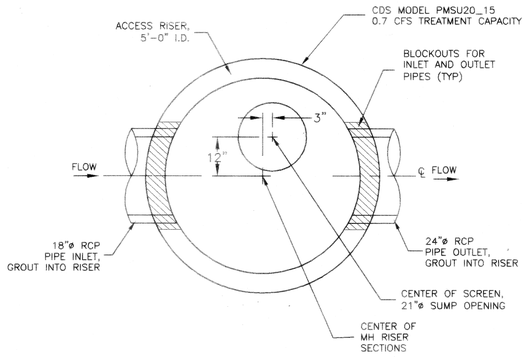
DWG — SHEET 3 OF 4

wsd-03rev.dwg Edited June 11, 2002 3:45 PM :)

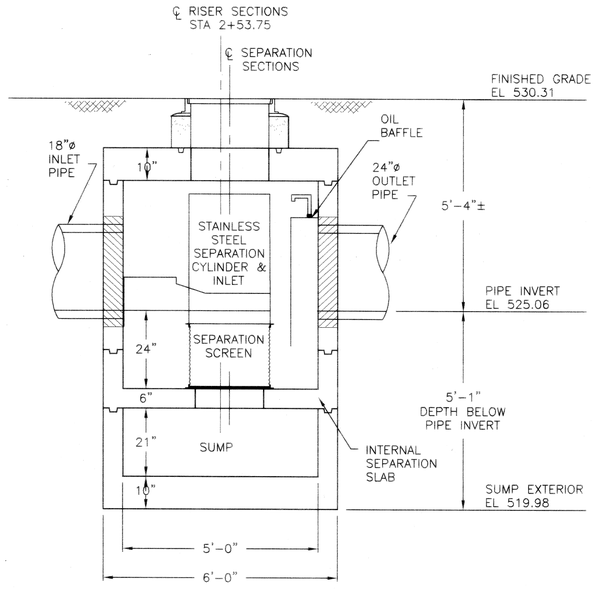
F 186 C



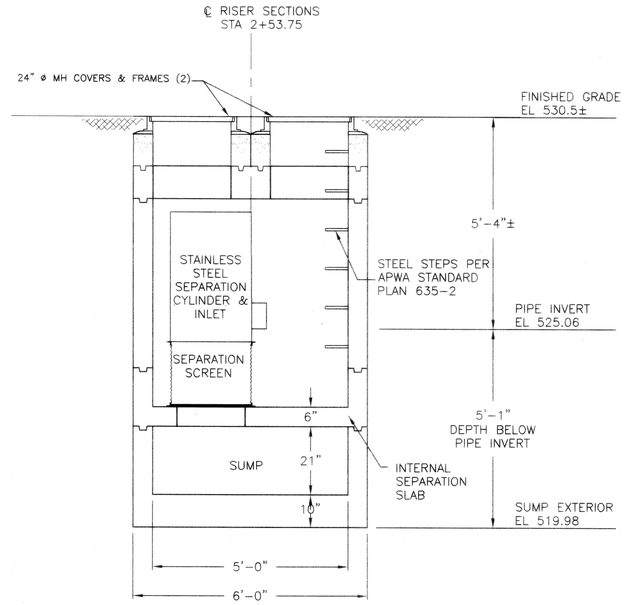
CDS PMSU20_15 PLAN VIEW



SEPARATION SLAB PLAN



SECTION A-A



SECTION B-B

S.P.C. 128-2000

MTD NO. 1682 – STORM DRAIN PLANS IN PASEO DEL PRADO, CITY OF WALNUT

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

CITY OF WALNUT

APPROVED

DAVID G. GILBERTSON RCE 46624 — DEPUTY CITY ENGINEER — DATE

REVIEWED LAND DEVELOPMENT DIVISION

BY _____ SUBDIVISION PLAN CHECKING SECTION — DATE

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER
DANNY M. PIERCE
No. 24979
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

PROJECT ENGINEER — DATE 6-11-02

GVW ENGINEERING, INC.
667 S. BREA CANYON RD., SUITE 27
WALNUT, CA. 91789
(909)594-0552 FAX. (909)594-5670

DWG

SHEET 4 OF 4

wsd-04.dwg Edited May 30, 2002 9:55 AM :)

#126 D