

GAIL FARBER \* DIRECTOR OF PUBLIC WORKS OR CITY ENGINEER  
 APPROVED BY LAND DEVELOPMENT DIVISION  
 OF LOS ANGELES COUNTY, CALIFORNIA  
 BY: *[Signature]* DATE: 6/14/12  
 ASSISTANT DIVISION ENGINEER  
 SUBMITTED BY: *[Signature]* DATE: 6/14/2012  
 SEWER AND WATER/LANDSCAPING SUBDIVISION PLAN CHECKING SECTION  
 COUNTY SANITATION DISTRICT NO. 17  
 OF LOS ANGELES COUNTY, CALIFORNIA  
 STEPHEN R. MAGUIN, CHIEF ENGINEER AND GENERAL MANAGER  
 APPROVED BY: *[Signature]* DATE: 6-14-2012  
 CITY ENGINEER  
 LOS ANGELES DEPARTMENT OF PARKS AND RECREATION  
 APPROVED BY: *[Signature]* DATE: 7-2-12  
 RUSSELL GUINEY, Director

**AS BUILT**  
 12-16-13

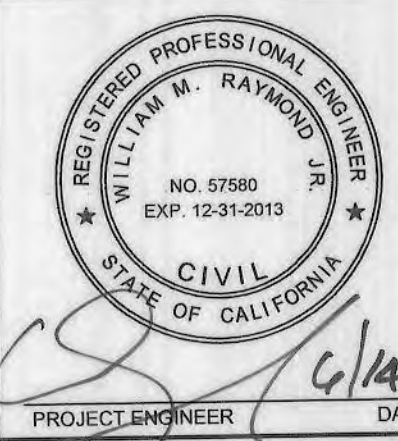


**PRIVATE ENGINEERS NOTICE TO CONTRACTORS:**  
 THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS IS REQUIRED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING. PRIOR TO EXCAVATION THE CONTRACTOR SHALL CALL TOLL FREE 1-800-422-4133 TO VERIFY THE UNDERGROUND LOCATION OF GAS AND TELEPHONE LINES. THE CONTRACTOR SHALL ALSO CALL TOLL FREE 1-800-948-4871 TO VERIFY THE LOCATION OF UNDERGROUND TELEPHONE LINES.  
 PROJECT ENGINEER: *[Signature]* RCE NO. 57580 DATE: 6/14/2012

NO. L.A. COUNTY. DPW CHARGES FOR CONNECTIONS  
 SEE COUNTY SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES  
 TEL. (626) 908-4288 EX. 2727  
 1"=40' HORIZONTAL  
 1"=4' VERTICAL

NO.	REVISION	REVISED BY	APPROVED BY	DATE

**SANITARY SEWER PLANS IN**  
**ALTADENA COUNTY GOLF COURSE** PC NO. 12151  
 REVIEWED BY LAND DEVELOPMENT DIVISION  
 BY: *[Signature]* DATE: 6/14/2012  
 SEWER AND WATER/LANDSCAPING SUBDIVISION PLAN CHECKING SECTION  
 COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
 \*FOR PLAN CHECK REVIEW FOR THE CITY OF



**MEG**  
 MARSHALL ENGINEERING GROUP, INC.  
 2001 E. FINANCIAL WAY STE. 104, GLEN DORA, CA 91741  
 PHONE: (626) 914-5788 FAX: (626) 914-5757 WEB: www.megi.biz

- PRIVATE CONTRACT SEWER GENERAL NOTES**  
 The following general notes are to be included on Page 1 of all Private Contract Sewer Plans:
- A sewer construction permit shall be obtained and a fee paid for construction inspection and record plans to the County of Los Angeles Department of Public Works, City Engineer for the City of Los Angeles, 800 South Fremont Avenue, 8th Floor, Alhambra, at least 72 hours prior to starting work under this permit. Copies of all other required permits, such as Road Excavation, Caltrans, etc., must be filed with the permit application.
  - Prior to issuance of any permit, the contractor shall file a permit for excavations and trenches from the State of California Division of Industrial Safety, and a Certificate of Worker's Compensation Insurance with the Department of Public Works named as the Certificate Holder. The County of Los Angeles Department of Public Works, City Engineer for the City of Los Angeles shall be notified 30 days prior to cancellation of the insurance policy.
  - If work is done in a State Highway, a permit must be obtained from the State of California Division of Highways, 120 South Spring Street, Los Angeles, California.
  - 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 fee.
  - The contractor shall contact the district office listed on the "Application for Construction Permit" to arrange for an acceptable construction start date.
  - Approval of this plan by the County of Los Angeles Department of Public Works, City Engineer for the City of Los Angeles does not constitute a representation as to accuracy of the location of or the existence or non-existence of any underground utility pipe or structure within the limits of this project. This note applies to all pages.
  - All work shall be in accordance with the latest approved edition of the "Standard Specifications for Public Works Construction", including supplements (if there is any), the latest "Additions and Amendments to the Standard Specifications for Public Works Construction" and the latest "Special Provisions for the Construction of Sanitary Sewer" and shall be prosecuted only in the presence of the City of Los Angeles Department of Public Works.
  - 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 Department of Public Works standard plan 603-1.
  - Elevations are in feet above U.S.C. & G.S. sea level datum of 1988.
  - No revisions shall be made in these plans without the approval of the County of Los Angeles Department of Public Works, City Engineer for the City of Los Angeles.
  - No representative of the County of Los Angeles Department of Public Works, City Engineer for the City of Los Angeles shall survey or lay out any portion of the work.
  - Grades to which this improvement is to be constructed are shown on plans and profiles. Grade points for top of curbs, centerlines of streets, or centerlines of alleys, are shown by circles on profiles at all points between said designated points. The grade shall be established so as to conform to a straight line drawn between said design points.
  - The private engineer shall furnish the County of Los Angeles Department of Public Works, City Engineer for the City of Los Angeles with grade sheets and stationing for all house laterals and "Y" or "T" branches and shall provide stakes for them at their proper locations with stationing plainly marked. All house laterals shall be constructed at a right angle from the main line sewer except as shown on the plans. House laterals from chimneys shall have an angle of less than 45 degrees with the M.L. sewer. Any change in alignment shall be requested in writing by the private engineer.
  - The private engineer shall furnish the house lateral depth at the property line below the top of curb elevation for each house lateral on the grade sheet.
  - An approved backwater valve is required when the pad is lower in elevation than the top of the next upstream manhole.
  - Contact Environmental Programs Division for industrial waste discharge permit @ (626) 458-3517

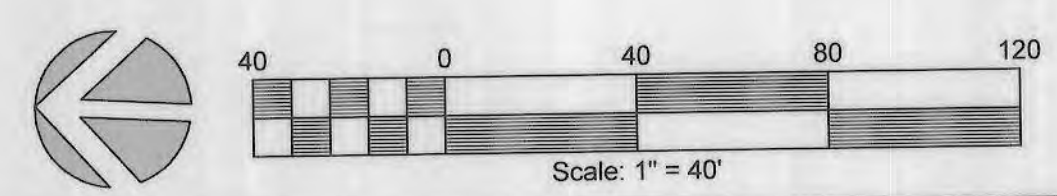
- CONSTRUCTION NOTES**
- Provide survey stakes on the property line or property lines produced at right angles to the sewer line at the centerline of each manhole.
  - Verified clay pipe joints shall be type "D" or "C" per "Standard Specifications for Public Works Construction" Section 209-2.
  - If a powerpole is within three feet of the sewer, the sewer shall be encased per LACDPW standard plan 2023-2, Case II, two feet on each side from the point of interference.
  - All joints between cast iron pipe and verified clay shall be made with a rubber sleeve joint, type "D" (with bushing if necessary) per "Standard Specifications for Public Works Construction" Section 209-2.
  - House laterals to be constructed with inverts at the property line 6 feet below curb grade except as noted.
  - Wye or tee branches may be used for connections to the mainline sewers except as noted.
  - If during the course of construction, it is determined that there is less than four feet of cover over the top of a manhole or house lateral V.G.P. sewer which is not indicated on the plans, the pipes shall be encased per LACDPW standard plan 2023-2, Case II, unless otherwise approved by the County of Los Angeles Department of Public Works, City Engineer for the City of Los Angeles.
  - All structures shall be either brick sewer manholes per LACDPW standard plan S-3 (SPPWC 203-3), or precast concrete sewer manholes per LACDPW standard plan S-30 (SPPWC 203-2), or reinforced precast concrete manhole per LACDPW standard plan 2033-2, except as noted.
  - Resurfacing at trenches with paved areas to meet the Department of Public Works or California State Highway requirements in accordance with the permits.
  - Full compliance with Section 306-1.3 of the "Standard Specifications for Public Works Construction" will be required for backfill in street. Certification of backfill, compaction, and sand equivalents by a qualified civil engineer shall be provided by the permittee prior to the issuance of a certificate of partial acceptance.
  - All backfill and fill outside of the street right of way shall be compacted to 90% of the maximum density as determined by ASTM soil compaction test 1557 (5' method) "D" unless otherwise specified. This shall be certified by a qualified civil engineer. This certification shall be submitted to the Construction Division of the Department of Public Works prior to the acceptance of the work by the county.
  - Manhole tops in unimproved rights of way to be six inches above finished grade.
  - Sewers to be tested for leakage per section 306-1.4 of the "Standard Specifications for Public Works Construction" and "Special Provisions for the Construction of Sanitary Sewer" if applicable.
  - Manhole tops in improved rights of way to be level with finished grade.
  - All wyes and/or house laterals are to be located at least 5' apart and when possible not closer than 5' to any manhole.
  - All pipe materials shall be verified clay pipe or ductile iron pipe or other approved materials by the County of Los Angeles Department of Public Works, City Engineer for the City of Los Angeles.

**NOTICE TO CONTRACTOR:**

- MAINTAIN SEWER FLOW AT ALL TIMES DURING CONSTRUCTION.
- SEWER VIDEO OF ALL SEGMENTS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE (80%) AND COMPLETED FIELD ACCEPTANCE (90%). FINAL MAP AND AS-BUILT SEWER PLANS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE.
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- SEWER LATERALS SHOWN ON PLANS ARE FOR REFERENCE ONLY.
- The developer shall be responsible for the continued maintenance of PC12151 sanitary sewer until the County formally accepts it for maintenance. All manlines, manholes and laterals shall be protected from damage and infiltration.

THE PROPOSED SEWER WILL NOT BE ALLOWED FOR PUBLIC USE (MAINTENANCE AND OPERATION) UNTIL THE SET ASIDE EASEMENT IS RECORDED AND ACCEPTED BY THE BOARD OF SUPERVISORS.

CONSTRUCTION NOTES	QTY.
1) CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER S.P.P.W.C. STD. 200-2	5 EA
2) CONSTRUCT 8" VCP SEWER PIPE	1008 LF
3) CONSTRUCT 6" VCP SEWER LATERAL PER S.P.P.W.C. STD. 222-1, TYPE A	45 LF
4) REMOVE EX. 8" SEWER STUB AND CONNECT TO EX. MANHOLE	1 EA
5) CONSTRUCT 8"x6" Y" STUB FOR LATERAL	1 EA



- STORMWATER POLLUTION PLAN NOTES**
- A. NOTES:
- Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses or wind.
  - Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
  - 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.
  - 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.
  - Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersed by wind.
  - 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.
  - Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
  - The following BMPs as outlined in, but not limited to, the "Best Management Practices Handbook, California Stormwater quality task force, Sacramento, California, 2007", or the latest revised edition, may apply during the construction of this project (Additional measures may be required if deemed appropriate by county inspectors):
- |  |  |   |
|--|--|---|
| <b>EROSION CONTROL</b>                   | <b>WIND EROSION CONTROL</b>                | <b>WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL</b> |
| EC-1 Scheduling                          | WE-1 Wind Erosion Control                  | WM-1 Material Delivery and Storage                      |
| EC-2 Preservation of Existing Vegetation |  | WM-2 Material Use                                       |
| EC-3 Hydraulic Mutch                     | <b>NON-STORM WATER MANAGEMENT</b>          | WM-3 Stockpile Management                               |
| EC-4 Hydroseeding                        | NS-1 Water Conservation Practices          | WM-4 Spill Prevention and Control                       |
| EC-5 Soil Binders                        | NS-2 Dewatering Operations                 | WM-5 Solid Waste Management                             |
| EC-6 Straw Mutch                         | NS-3 Paving and Grinding Operations        | WM-6 Hazardous Waste Management                         |
| EC-7 Geotextiles and Mats                | NS-4 Temporary Stream Crossing             | WM-7 Contaminated Soil Management                       |
| EC-8 Wood Mulching                       | NS-5 Clear Water Diversion                 | WM-8 Concrete Waste Management                          |
| EC-9 Earth Dikes and Drainage Swales     | NS-6 Blot Connection/Discharge             | WM-9 Sanitary/Septic Waste Management                   |
| EC-10 Velocity Dissipation Swales        | NS-7 Potable Water/Irrigation              | WM-10 Liquid Waste Management                           |
| EC-11 Slope Drains                       | NS-8 Vehicle and Equipment Cleaning        |   |
| EC-12 Streambank Stabilization           | NS-9 Vehicle and Equipment Fueling         |   |
| EC-13 Polycyamide                        | NS-10 Vehicle and Equipment Maintenance    |   |
|  | NS-11 File Driving Operations              |   |
|  | NS-12 Concrete Curing                      |   |
|  | NS-13 Concrete Finishing                   |   |
|  | NS-14 Material Over Water                  |   |
|  | NS-15 Demolition Adjacent to Water         |   |
|  | NS-16 Temporary Batch Plants               |   |
|  |  |   |
|  | <b>EQUIPMENT TRACKING CONTROL</b>          |   |
|  | TR-1 Stabilized Construction Entrance/Exit |   |
|  | TR-2 Stabilized Construction Roadway       |   |
|  | TR-3 Entrance/Outlet Tire Wash             |   |

The following latest revised standard plans on file in the office of the following department shall apply in the construction of this project.

**LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS**

2000-0 Legend for sanitary sewer plans and profiles and district maps.	2021-1 Bedding for sewer pipe.
2002-1 Precast concrete shallow manhole.	2023-2 Casting and encasement.
2003-2 Reinforced precast concrete manhole.	2024-1 WVE or TEE support.
2004-1 Rectangular shallow manhole.	2025-1 Erosion protection in steep slopes.
2014-1 Rectangular manhole frame and cover.	2027-1 Allowable trench widths.
2015-1 Standard manhole sitp.	6008-1 Minimum public safety requirements.
	2100-1 Requirements for sanitary sewers near water mains

**STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)**

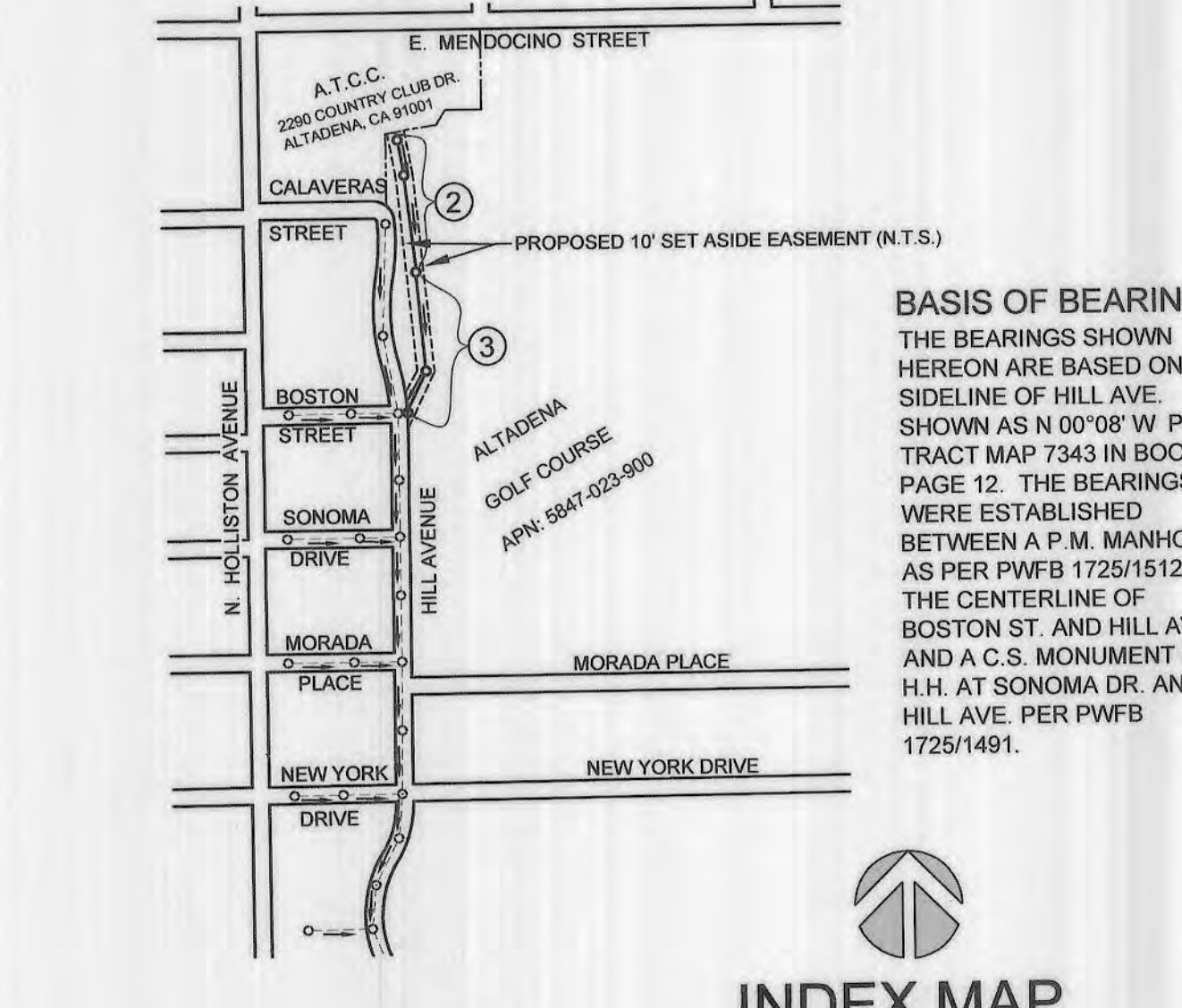
207-1 Precast reinforced concrete manhole base breaking into existing manholes	221-1 Pipe anchors and backfill stabilizers
208-1 Manhole frame and cover locking type	222-1 House connection sewer
210-2 Chimneys	223-1 House connection remodeling
220-2	225-1 Blanket protection for pipes

**COUNTY SANITATION DISTRICTS (CSD) NOTES:**

- No connection for the disposal of industrial wastes shall be made to sewers shown on these drawings until a permit for industrial wastewater discharge has been issued by CSD for said connections.
- Before breaking into a CSD sewer or manhole, and prior to final acceptance of the project, a CSD inspector shall be notified by telephone at (626) 962-8605 so that required inspection can be made.

Any damage to the sewer line shall be the responsibility of the contractor/owner. All grading and construction occurring over and in the vicinity of the existing sewer shall be performed in the presence of a County inspector. Where applicable, the sewers shall be protected per Std. Plan 2023-2 at all significant crossings.

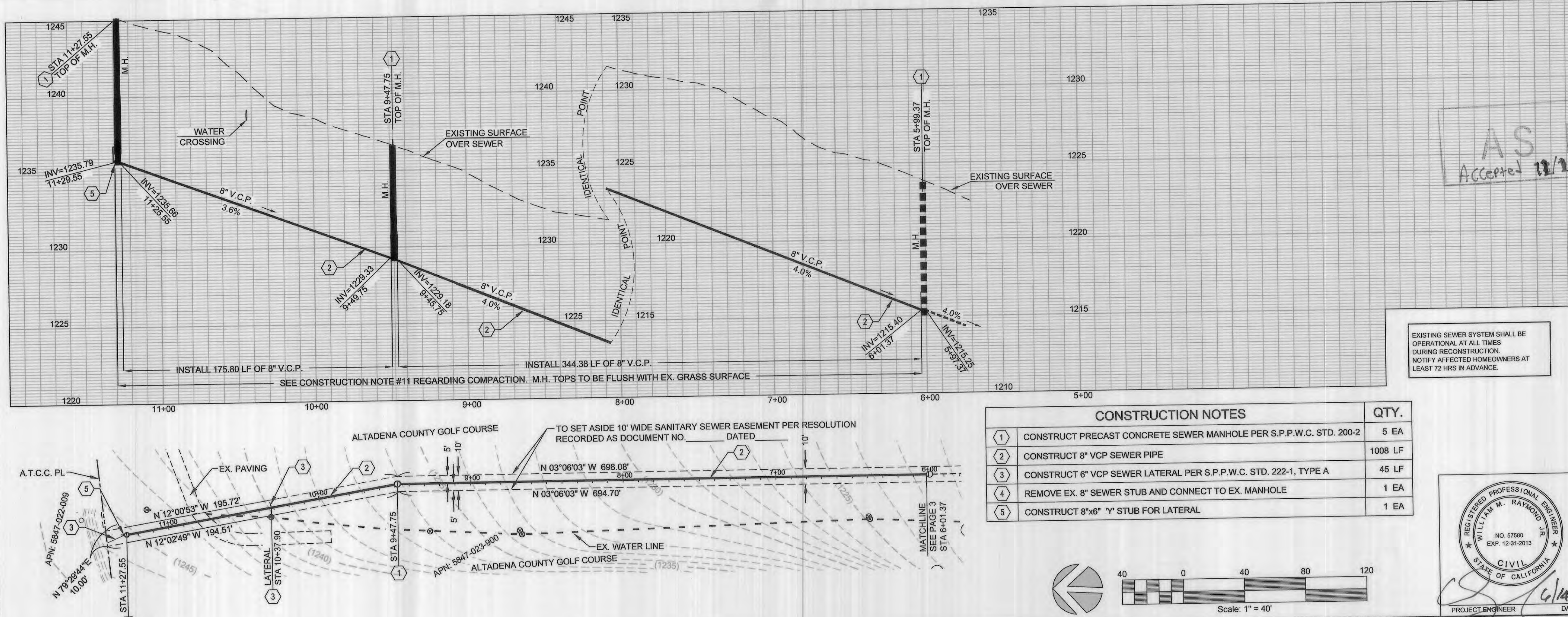
**BENCH MARKS**  
 BM: Y5065 Elev: 1155.797  
 SPK IN S CB 3.3 FT W/O BCR @ SW COR NEW YORK DR & HOLLISTON AVE.  
 QUAD: PASADENA (2005)



Building and Safety District Office: **SAN GABRIEL VALLEY**  
 NOTES: NUMBER IN CIRCLE INDICATES PAGE NUMBER.  
 ALL MAINLINE SANITARY SEWERS ARE WITHIN THE SANITARY SEWER EASEMENT

SCALE: 1" = 600' CSMD INDEX E-1961  
 P.C. 12151 ALTADENA COUNTY GOLF COURSE  
 THOMAS GUIDE PAGE: 536-96

NO.	REVISION	REVISED BY	APPROVED BY	DATE



EXISTING SEWER SYSTEM SHALL BE OPERATIONAL AT ALL TIMES DURING RECONSTRUCTION. NOTIFY AFFECTED HOMEOWNERS AT LEAST 72 HRS IN ADVANCE.

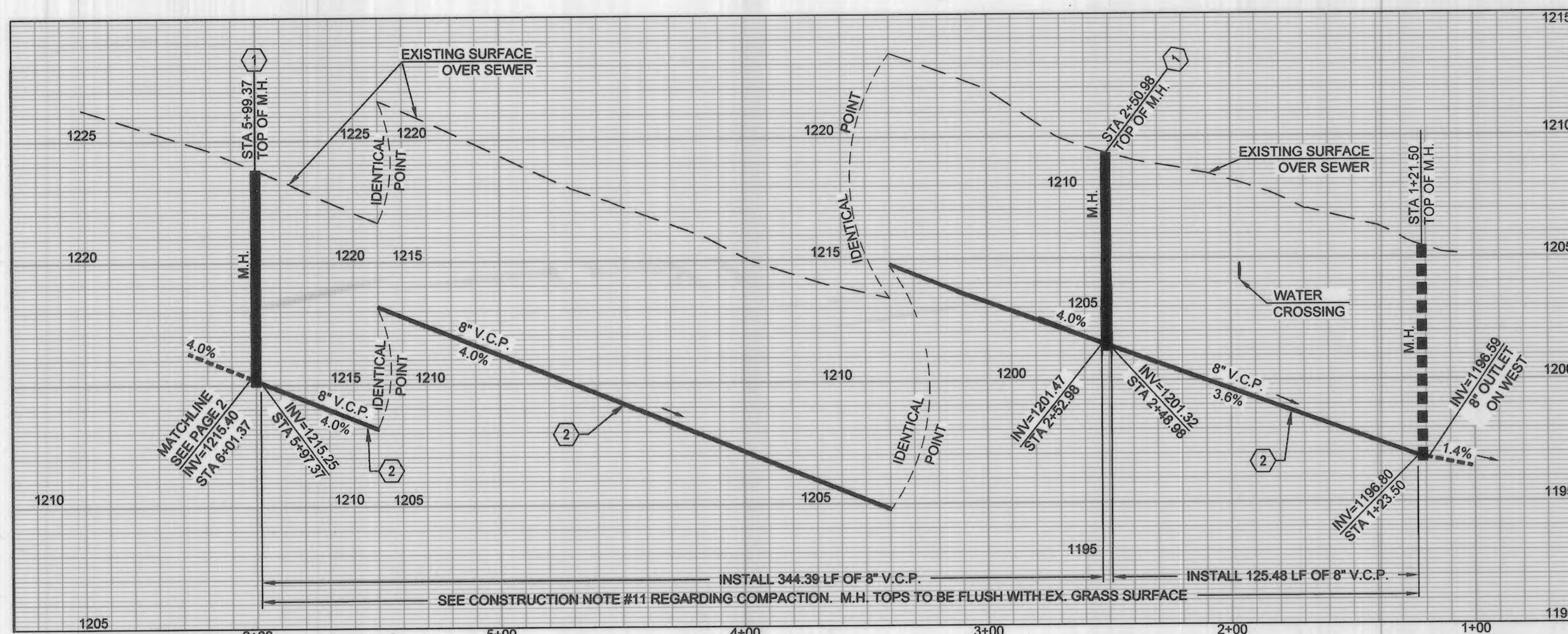
PROJECT ENGINEER: *[Signature]* DATE: 6/14/2012 DWG

NO. L.A. COUNTY, DPW CHARGES FOR CONNECTIONS

SEE COUNTY SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES

TEL. (562) 699-7411 EX. 2727

1"=40' : HORIZONTAL  
1"=4' : VERTICAL

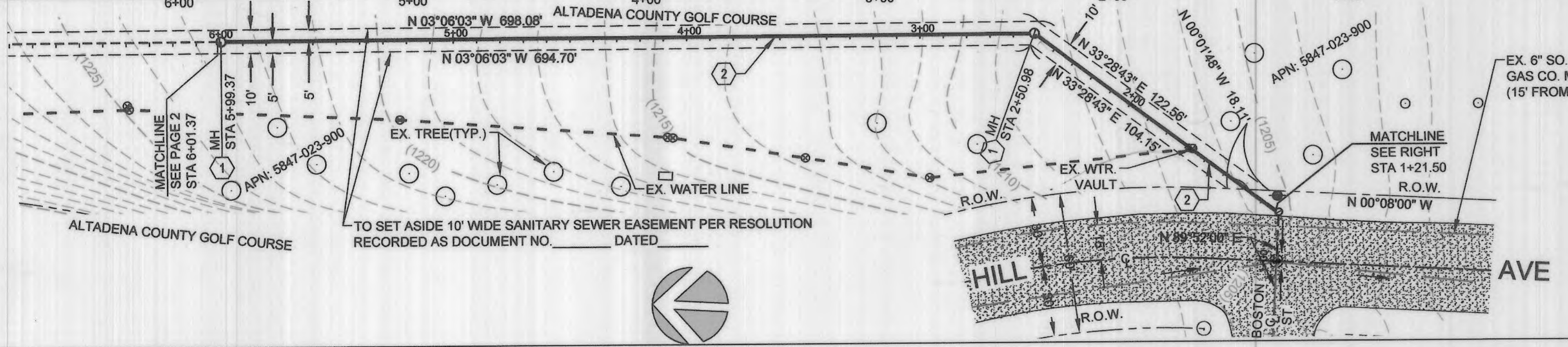
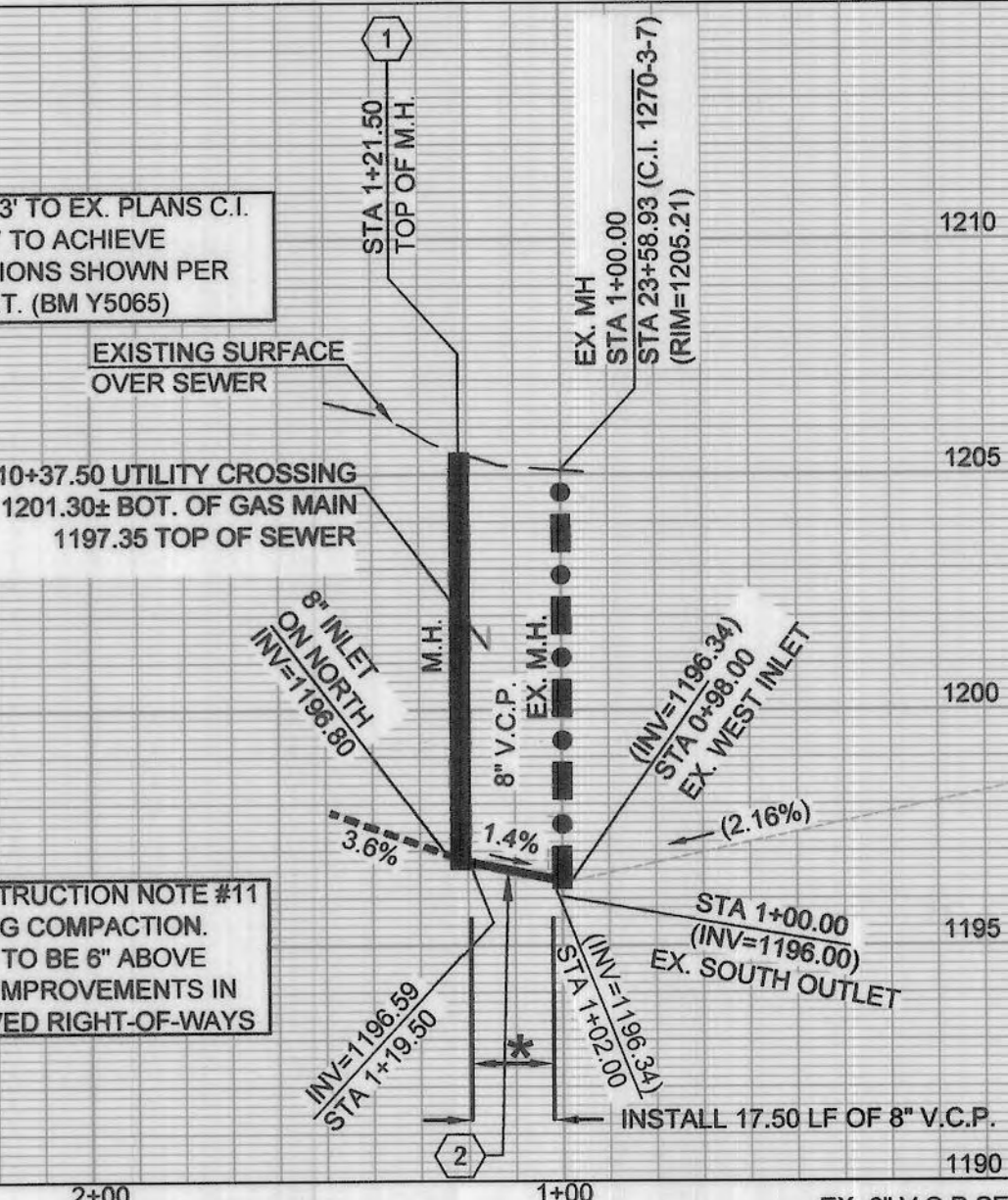


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12-10-13

LEGAL DESCRIPTION OF SET ASIDE:  
THE CENTERLINE OF A 10.00 FOOT WIDE SET ASIDE FOR SEWER PURPOSES MORE PARTICULARLY DESCRIBED:  
BEGINNING IN THE WESTERLY LINE OF SAID PARCEL JUST NORTH OF BOSTON STREET AS SHOWN ON SAID PARCEL AT A POINT THAT IS 3.59 FEET MEASURED ALONG THE CURVE HAVING A RADIUS OF 400.00 FEET; THENCE NORTH 19°31'32" EAST A DISTANCE OF 159.87 FEET; THENCE NORTH 02°45'41" WEST A DISTANCE OF 691.86 FEET; THENCE NORTH 12°09'54" WEST A DISTANCE OF 119.65 FEET TO THE NORTHERLY LINE OF SAID PARCEL AS DESCRIBED ABOVE AS PARCEL 'D', SAID CENTERLINE BEING NORTH 81°09'12" WEST AND 52.58 FEET FROM THE MOST WESTERLY AND NORTHERLY CORNER OF THE ABOVE DESCRIBED PARCELS.  
CONTAINING 9,718± SQUARE FEET

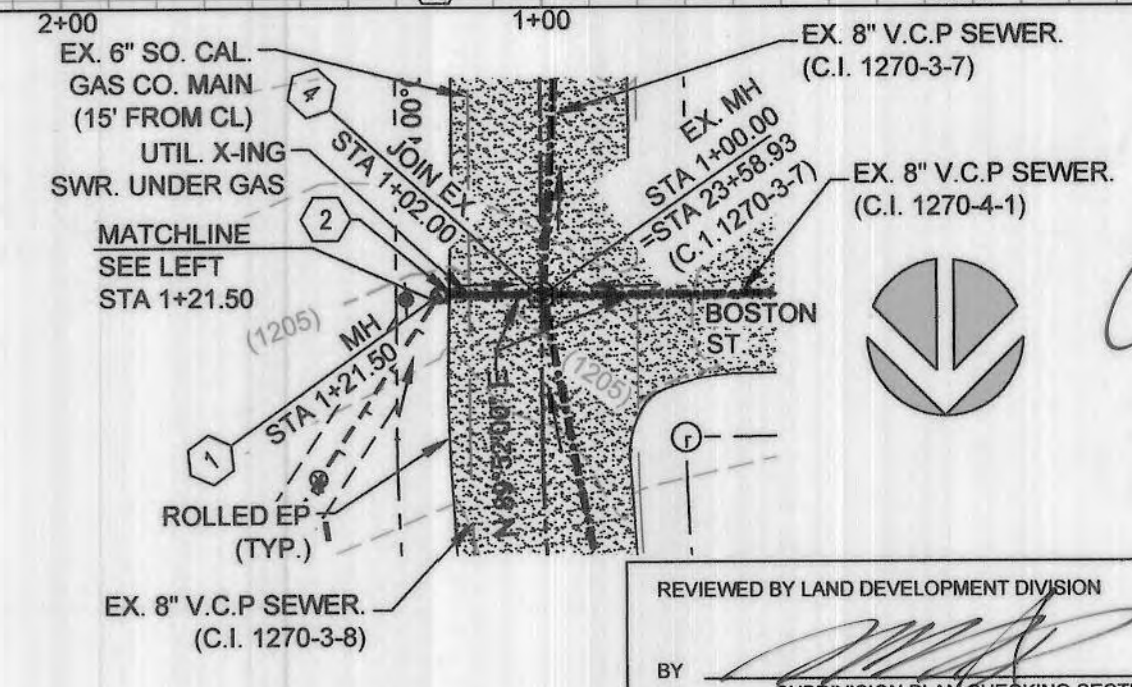
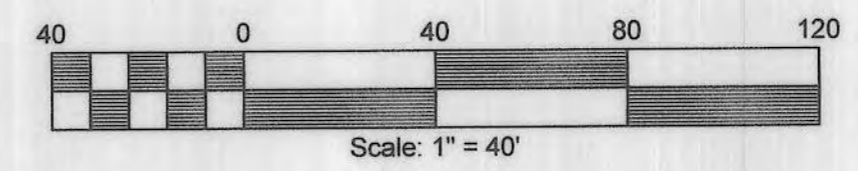
ADD 3.33' TO EX. PLANS C.I. 1270-3-7 TO ACHIEVE ELEVATIONS SHOWN PER THIS SET. (BM Y5065)

\*SEE CONSTRUCTION NOTE #11 REGARDING COMPACTION. M.H. TOPS TO BE 6" ABOVE SURFACE IMPROVEMENTS IN UNIMPROVED RIGHT-OF-WAYS



**CONSTRUCTION NOTES**

- 1) CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER S.P.P.W.C. STD. 200-2
- 2) CONSTRUCT 8" VCP SEWER PIPE
- 3) CONSTRUCT 8" VCP SEWER LATERAL PER S.P.P.W.C. STD. 222-1, TYPE A
- 4) REMOVE EX. 8" SEWER STUB AND CONNECT TO EX. MANHOLE
- 5) CONSTRUCT 8"x6" "Y" STUB FOR LATERAL



6/14/2012  
WILLIAM RAYMOND JR.  
REGISTERED PROFESSIONAL ENGINEER  
NO. 57560  
EXP. 12-31-2014  
CIVIL  
STATE OF CALIFORNIA

REVIEWED BY LAND DEVELOPMENT DIVISION  
BY: [Signature]  
SUBDIVISION PLAN CHECKING SECTION  
DATE: 6/14/2012

VOID

