

BENCH MARK:
 24.9M (81.7FT) NORTH OF THE CENTER OF THE WESTBOUND LANES OF FREEWAY 118, 17.5M (57.4FT) NORTH OF THE NORTHWEST CORNER OF THE WESTBOUND FREEWAY OVERPASS OF THE HIGHWAY 7.3M (24.0FT) SOUTH OF THE CENTERLINE OF THE WESTBOUND FREEWAY ON-RAMP, 0.8M (2.6FT) ABOVE THE LEVEL OF THE RAMP AND 0.3M (1.0FT) WEST OF A WITNESS POST. USGS A1452
 ELEV. 1247.92 FEET ADJUSTMENT 1995

Per Title 20.24.140 of LA County Code, obstructing access to sewer facilities is prohibited. No object difficult to remove shall be located over the sewer easement(s) as to interfere with ready access to sewer facilities.

STORMWATER POLLUTION PLAN NOTES

- A. NOTES:**
- Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times.
 - 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 ditches.
 - Stockpiles of earth and other construction related materials must be protected from the site by the forces of wind or water.
 - Fuels, oils, solvents, and other toxic materials must be stored in accordance with their labeling 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 waste must be deposited into a covered receptacle to prevent contamination of rainwater and disposal 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 latest edition of the California BMP Handbook (Construction) or Caltrans Stormwater Quality Handbooks (Construction Site BMP Manual), may apply during the construction of this project (additional measures may be required if deemed appropriate by the Project Engineer or the Building Official)

- EROSION CONTROL**
- EC1 SCHEDULING
 - EC2 PRESERVATION OF EXISTING VEGETATION
 - EC3 HYDRALIC MULCH
 - EC4 HYDROSEEDING
 - EC5 SOIL BINDERS
 - EC6 STRAW MULCH
 - EC7 GEOTEXTILES & MATS
 - EC8 WOOD MULCHING
 - EC9 EARTH DICES AND DRAINAGE SWALES
 - EC10 VELOCITY DESTRUCTION DEVICES
 - EC11 SLOPE DRAINS
 - EC12 STREAMBANK STABILIZATION
 - EC13 RESEEDING
 - EC14 COMPOST BLANKETS
 - EC15 SOIL PREPARATION/ROUGHENING
 - EC16 NON-VEGETATED STABILIZATION

- NON-STORM WATER MANAGEMENT**
- NS1 WATER CONSERVATION PRACTICES
 - NS2 DENATURING OPERATIONS
 - NS3 PAVING AND GRADING OPERATIONS
 - NS4 TEMPORARY STREAM CROSSING
 - NS5 CLEAR WATER DIVERSION
 - NS6 FLUCT CONNECT CONDUIT/CHARGE
 - NS7 POTABLE WATER TREATMENT
 - NS8 VEHICLE AND EQUIPMENT CLEANING
 - NS9 VEHICLE AND EQUIPMENT FUELING
 - NS10 VELOCITY DESTRUCTION MAINTENANCE
 - NS11 PILE DRIVING OPERATIONS
 - NS12 CONCRETE CURING
 - NS13 CONCRETE FINISHING
 - NS14 MATERIAL AND EQUIPMENT USE
 - NS15 DEMOLITION ADJACENT TO WATER
 - NS16 TEMPORARY BATCH PLANTS

- WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL**
- WM1 MATERIAL DELIVERY AND STORAGE
 - WM2 MATERIAL USE
 - WM3 STOCKPILE MANAGEMENT
 - WM4 SPILL PREVENTION AND CONTROL
 - WM5 SOLID WASTE MANAGEMENT
 - WM6 HAZARDOUS WASTE MANAGEMENT
 - WM7 CONTAMINATION SOIL MANAGEMENT
 - WM8 CONCRETE WASTE MANAGEMENT
 - WM9 SANITARY/SEPTIC WASTE MANAGEMENT
 - WM10 LIQUID WASTE MANAGEMENT

- TEMPORARY SEDIMENT CONTROL**
- SE1 SILT FENCE
 - SE2 SEDIMENT BASIN
 - SE3 SEDIMENT TRAP
 - SE4 CHECK DAM
 - SE5 FIBER ROLLS
 - SE6 CRUISE BAG BERM
 - SE7 STREET SWEEPING AND VACUUMING
 - SE8 SANDBAG BARRIER
 - SE9 STRAW BALE BARRIER
 - SE10 STORM DRAIN INLET PROTECTION
 - SE11 ACTIVE TREATMENT SYSTEMS
 - SE12 TEMPORARY SILT DIKE
 - SE13 COMPOST SOCKS & BERMS
 - SE14 BIOPILER BAGS

- WIND EROSION CONTROL**
- WE1 WIND EROSION CONTROL

- EQUIPMENT TRACKING CONTROL**
- TC1 STABILIZED CONSTRUCTION ENTRANCE EXIT
 - TC2 STABILIZED CONSTRUCTION ROADWAY
 - TC3 ENTRANCE/EXIT TIRE WASH

- B. STANDARD PLANS:**
- 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	Crediting and encasement.
2002-2	Reinforced precast concrete manhole.	2024-1	WYE or TEE support.
2003-2	Rectangular shallow manhole.	2026-1	Erosion protection in steep slopes.
2004-1	Rectangular manhole frame and cover.	2027-1	Allowable trench width.
2011-1	Standard manhole step.	6008-1	Minimum public safety requirements.
2015-1		2100-1	Requirements for sanitary sewers near water mains

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)

200-3	Precast concrete sewer manhole	221-2	Pipe anchors and backfill stabilizers
207-2	Precast reinforced concrete manhole base	222-2	House connection sewer
208-2	Breaking into existing manholes	223-2	House connection remodeling
210-3	Manhole frame and cover locking type	225-2	Blanket protection for pipes
220-3	Chimneys		

- COUNTY SANITATION DISTRICT (CSD) NOTES:**
- No connection for the disposal of industrial wastes shall be made to sewers shown on these drawings until a permit for industrial waste water discharge has been issued by the County Sanitation Districts for said connections.
 - Prior to final acceptance of the project, notify the CSD Superintendent of Maintenance at (310) 638-1161 to report completion of construction of this local sewer that indirectly connects to the CSD sewer system.

- BASIS OF BEARINGS:**
- THE BEARINGS SHOWN HEREON ARE BASED ON THE BEARING NORTH 38°19'51" EAST OF THE NORTHWESTERLY BOUNDARY OF THE RANCHO EX MISSION DE SAN FERNANDO AS SHOWN ON MAP FILED IN BOOK 175, PAGES 10 THROUGH 16, INCLUSIVE OF RECORD OF SURVEYS, RECORDS OF LOS ANGELES COUNTY.

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

NOTICE TO CONTRACTOR:

ISSUE NO HOUSE LATERAL CONNECTION PERMITS UNTIL OUTLET SEWER BR-205398 IS ACCEPTED FOR PUBLIC USE BY THE CITY OF LOS ANGELES.

The developer shall be responsible for the continued maintenance of PC12269 sanitary sewer until the County formally accepts it for maintenance. All manholes, manholes and laterals shall be protected from damage and infiltration.

BACKWATER VALVES SHALL BE NECESSARY FOR TR 53138-01 - LOTS No. 1, 2, 9, 10, 12, TR 53138-03 - LOTS No. 1, 2, 6, 14, 25-31, 37-40, 44-53, TR 53138-04 - LOTS No. 1-18, 20, 24-34

SEWER VIDEO OF ALL SEGMENTS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE (95%) AND COMPLETED FIELD ACCEPTANCE (98%). FINAL MAP AND AS-BUILT SEWER PLANS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE

SEWER LATERALS SHOWN ON PLANS ARE FOR REFERENCE ONLY.

ALL SANITARY SEWER MANHOLE SHAFTS AND FRAMES SHALL BE WATERTIGHT.

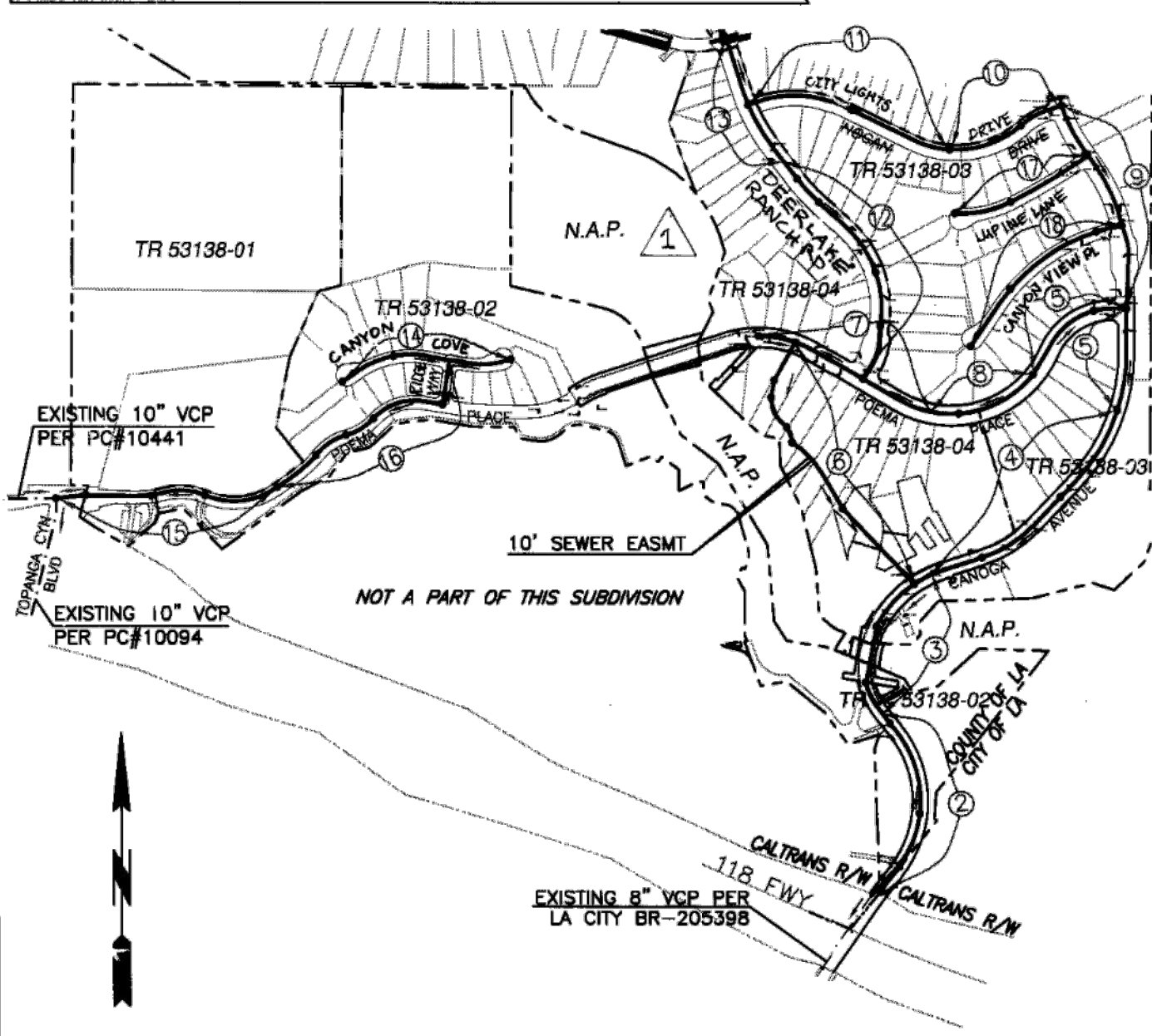
ALL SANITARY SEWER MANHOLE SHAFTS AND FRAMES SHALL BE WATERTIGHT WITH BUTYL RUBBER MASTIC JOINT SEALING COMPOUND OR APPROVED EQUAL BY THE LA COUNTY PUBLIC WORKS.

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 at the Permit Counter, 900 South Fremont Avenue, 3rd Floor, Alhambra, at least 12 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.
 - When work is within a contract city, a sewer construction permit shall be obtained and a fee paid for construction inspection and record plans to the City. The contractor must contact the Director of Public Works of that City to determine the location to pay the inspection fees.
 - 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 or both as applicable. The County of Los Angeles Department of Public Works 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.
 - 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 does not constitute a representation as to accuracy of the location of or the existence or nonexistence of any underground utility pipes or structures 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 practice of the County 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 Requirement" as shown on County of Los Angeles Department of Public Works Standard Plan No. 6008-1.
 - Elevations are in feet above U.S.C. and 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.
 - No representative of the County of Los Angeles Department of Public Works will survey or layout any portion of the work.
 - Grades to which this improvement is to be constructed are shown on plans and profiles. Grade point for top of curb, centerline of streets, or centerline of alleys, is shown by circles on profiles at all points between said designed 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 with grade sheets and stationing for all house laterals and "Y" and "T" branches and shall provide stakes for their proper locations with stationing plainly marked. All house laterals shall be constructed in a straight alignment at right angles from the main line sewer except as shown on the plans. House laterals from chimneys shall not 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 an Industrial Waste Discharge Permit at (626) 458-3571.

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 city pipe joints shall be type "D" or "G" per "Standard Specifications for Public Works Construction" Section 208-2.
- If a power pole 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 city pipe shall be made with a rubber sleeve joint, type "D" (with bushing if necessary), per "Standard Specifications for Public Works Construction" Section 208-2.
- 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 mainline or house lateral V.C.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.
- All structures shall be either brick sewer manholes per LACDPW Standard Plan S-3 (SPPWC 203-1), or precast concrete sewer manholes per LACDPW Standard Plan S-36 (SPPWC 200-3), or reinforced precast manhole per LACDPW Standard Plan 2003-2, except as noted.
- Resurfacing all trenches within paved areas to meet Department of Public Work or California State Highway requirements in accordance with the permits.
- Full compliance with Section 308-5.3 of the "Standard Specifications for Public Works Construction" shall be provided by the permittee prior to the issuance of a Certificate of Partial Acceptance.
- All backfill and fills outside of the street right of way shall be compacted to 90 percent of the maximum density as determined by ASTM Soil Compaction Test D 1557-78, Method "D", unless otherwise specified. This shall be certified by a qualified Civil Engineer. This certification shall be submitted to the Land Development Division, Permit Section of the County of Los Angeles 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 Specification 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 feet apart, and when possible, not closer than 5 feet to any manhole.
- All pipe materials shall be verified city pipe or ductile iron pipe or other approved materials by the County of Los Angeles Department of Public Works.
- All ductile iron pipe shall be lined with Protecto 401 Ceramic Epoxy lining.
- Cured in place pipe liner shall be used for all extra strength verified city pipe if lining is required.
- All chimneys shall have terminal cleanout structure per SPPWC std. plan 204-2.



INDEX MAP

BUILDING AND SAFETY DISTRICT OFFICE: CALABASAS/MALIBU
 SCALE: 1" = 400' CSD INDEX N-1224 & N-1263
 NOTES: NUMBER IN CIRCLE INDICATES PAGE NUMBER.
 ALL MAINLINE SANITARY SEWERS ARE WITHIN THE SANITARY SEWER EASEMENT (IF APPLICABLE)
 P.C. 12269 TR. NO. 53138-01, -02, -03, -04.
 THOMAS GUIDE PAGE: 560-A1, B1

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	ADDED C/L SEWER LINE AND CURVE DATA E.F.C.H.1 AND J. CHANGED STREET NAME ON PAGES 1-10. ENCASE "H" ON LOTS 10-16 AND IS ON PAGES 12 AND 13	Hughes/Hunt	[Signature]	10/10/18

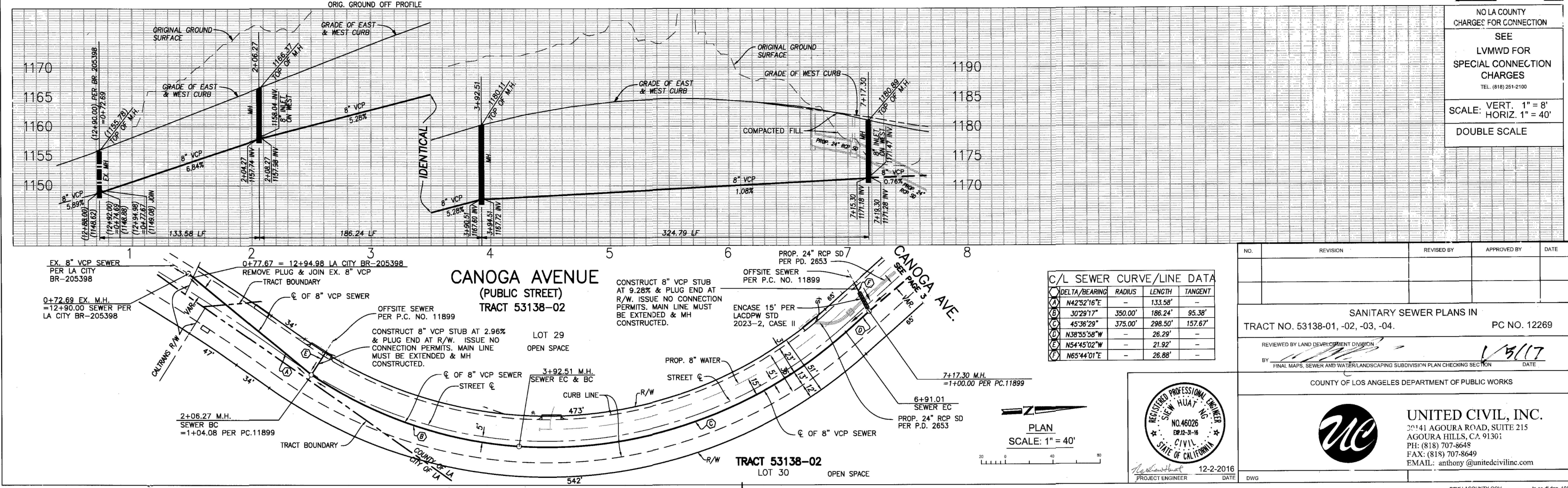
GAIL FARRER LA COUNTY DIRECTOR OF PUBLIC WORKS APPROVED BY LAND DEVELOPMENT DIVISION
 BY [Signature] 1/5/17 DATE
 ASSISTANT DIVISION ENGINEER
 SUBMITTED BY Jalisco Palomares 1/5/17 DATE
 FINAL MAPS, SEWER AND LANDSCAPING SUBDIVISION PLAN CHECKING SECTION

LAS VIRGENES MUNICIPAL WATER DISTRICT
 APPROVED BY [Signature] DATE: 1/30/17
 OFFICE ENGINEER

CITY OF LOS ANGELES APPROVAL
 TRACT/PARCEL/ADDRESS 53138-01-04 PC NO. 12269
 CITY OF Los Angeles DISCHARGE OUTLET APPROVED
 WE APPROVE THIS SEWER AREA STUDY AND CONCUR WITH THE FOLLOWING FINDINGS WITHIN THE CITY: NO MITIGATION WITH MITIGATION
 APPROVED BY [Signature] 2/8/2017 DATE
 CITY OF Los Angeles RCE: 3089

Engineer's/Surveyor's Statement Regarding the Presence of Monuments within project limits
 I hereby attest that I have located and referenced on these plans the monuments existing prior to construction to ensure perpetuation of their location in accordance with Section 8771 of the business and professions code. I further attest that I have performed a record search and field inspection to identify existing monuments; shall sufficient controlling, witness, and permanent monuments; and shall file the requisite corner record or record of survey of the references with the County surveyor.
 [Signature] 12-2-2016 Date
 Engineer/Surveyor Seal and Signature

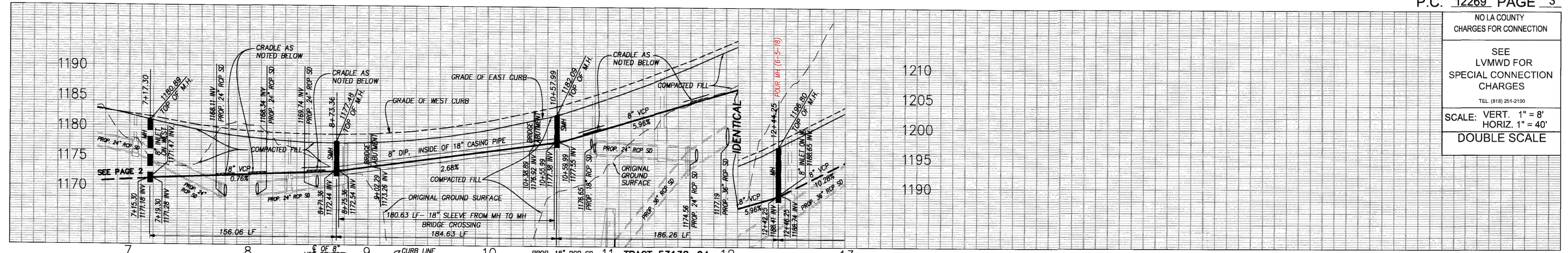
PRIVATE ENGINEERS NOTICE TO CONTRACTORS:
 THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS IS REQUIRED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD AND 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 MR. RAY CUMMINGS OF GENERAL TELEPHONE COMPANY AT 1-800-948-4871 SO THAT THEY CAN MARK THE LOCATION OF UNDERGROUND TELEPHONE LINES.
 [Signature] 12-2-2016 DATE
 SHEW HUAT NG R.C.E. #46026 EXP. 12/31/18



[Signature] 12-2-2016 DATE
 PROJECT ENGINEER



UNITED CIVIL, INC.
 20141 AGOURA ROAD, SUITE 215
 AGOURA HILLS, CA 91301
 PH: (818) 707-8648
 FAX: (818) 707-8649
 EMAIL: anthony@unitedcivilinc.com



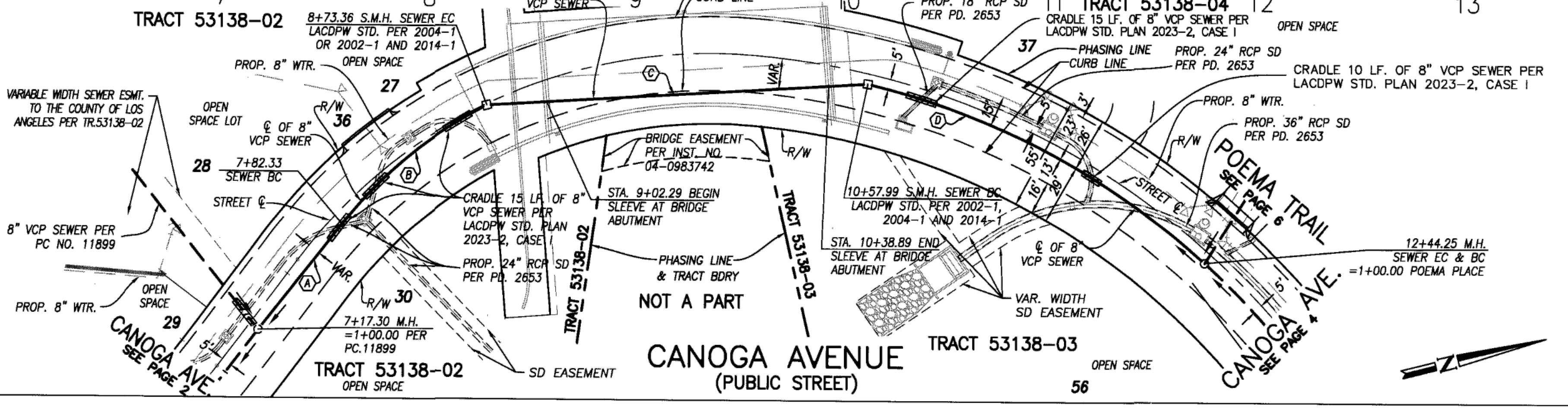
NO LA COUNTY
CHARGES FOR CONNECTION

SEE
LVMWD FOR
SPECIAL CONNECTION
CHARGES

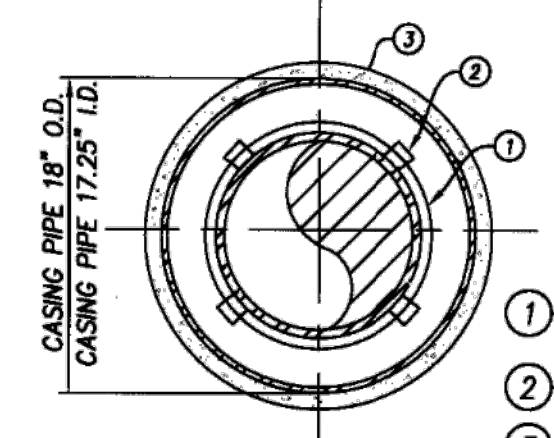
TEL. (818) 251-2100

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

DOUBLE SCALE



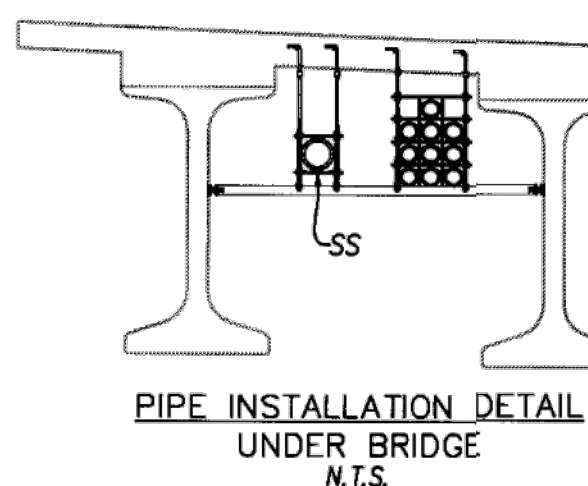
NOTE:
SEE SEPARATE BRIDGE PLAN
FOR SEWER HANGER AND
SLEEVE DETAIL PER BR-4201.



- 1 8" DIP PIPE WITH RESTRAINED JOINTS (CARRIER PIPE)
- 2 CASING INSULATORS: 3" HIGH
- 3 3/4" WALL THICKNESS STEEL PIPE (CASING PIPE), FUSION-BONDED EPOXY LINED AND COATED 0.01" THICK. CAST INTO ABUTMENT BACKWALL. WRAP CASING WITH 2 LAYERS OF BUILDING PAPER AND FILL ANNULAR SPACE WITH DRY PACK OR OTHER APPROVED MATERIAL. CEMENT MORTAR ARMOR COATED WHERE BURIED.

C/L SEWER CURVE/LINE DATA

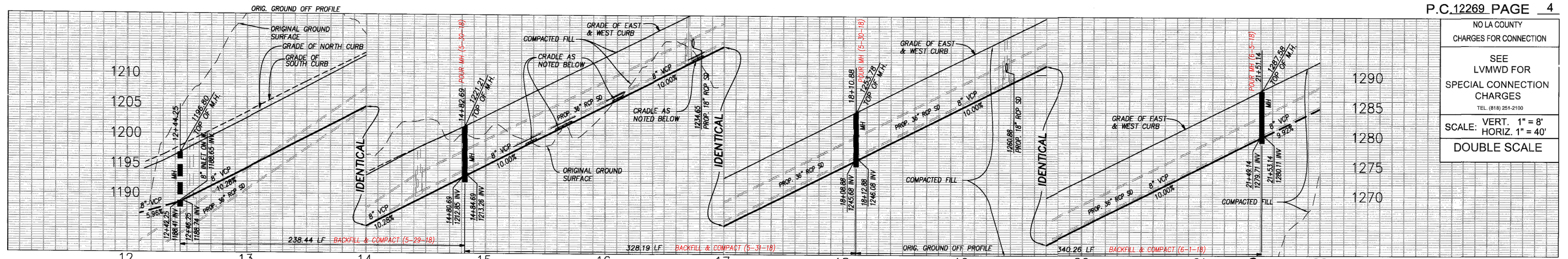
DELTA/BEARING	RADIUS	LENGTH	TANGENT
(A) N37°21'46"W	-	65.03'	-
(B) 24°28'33"	213.09'	91.03'	48.22'
(C) N10°47'06"E	-	184.63'	-
(D) 28°50'36"	370.00'	186.26'	95.15'



PS007684

PLAN
SCALE: 1" = 40'

REVIEWED BY LAND DEVELOPMENT DIVISION
BY: [Signature] DATE: 5/5/17
FINAL MAPS, SEWER AND WATER LANDSCAPING SUBDIVISION SECTION



NO LA COUNTY
CHARGES FOR CONNECTION

SEE
LVMWD FOR
SPECIAL CONNECTION
CHARGES

TEL. (818) 251-2100

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

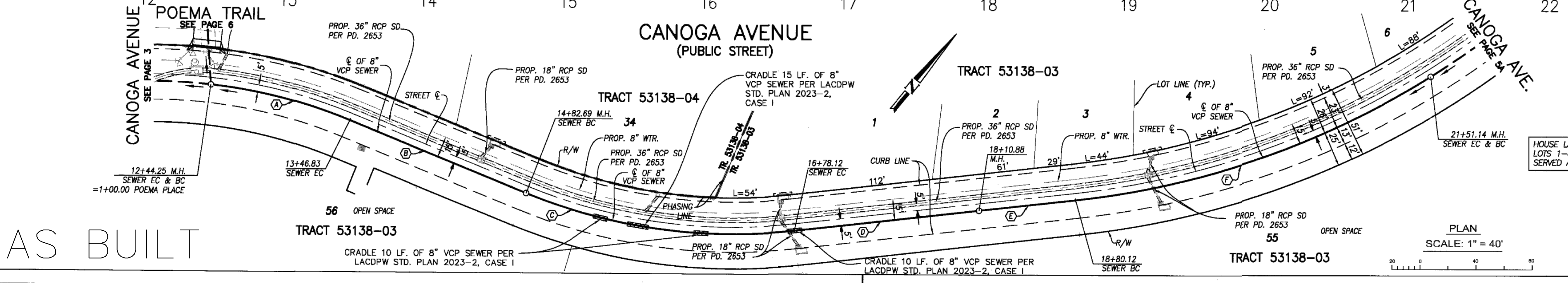
DOUBLE SCALE

C/L SEWER CURVE/LINE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
(A) 15°53'06"	370.00'	102.58'	51.62'
(B) N72°15'14"E	-	135.86'	-
(C) 28°29'29"	393.00'	195.43'	99.78'
(D) N43°45'45"E	-	132.76'	-
(E) N43°45'45"E	-	69.24'	-
(F) 25°40'01"	605.00'	271.02'	137.82'



HOUSE LATERALS FOR
LOTS 1-6, 34 ARE
SERVED AT POEMA PL.

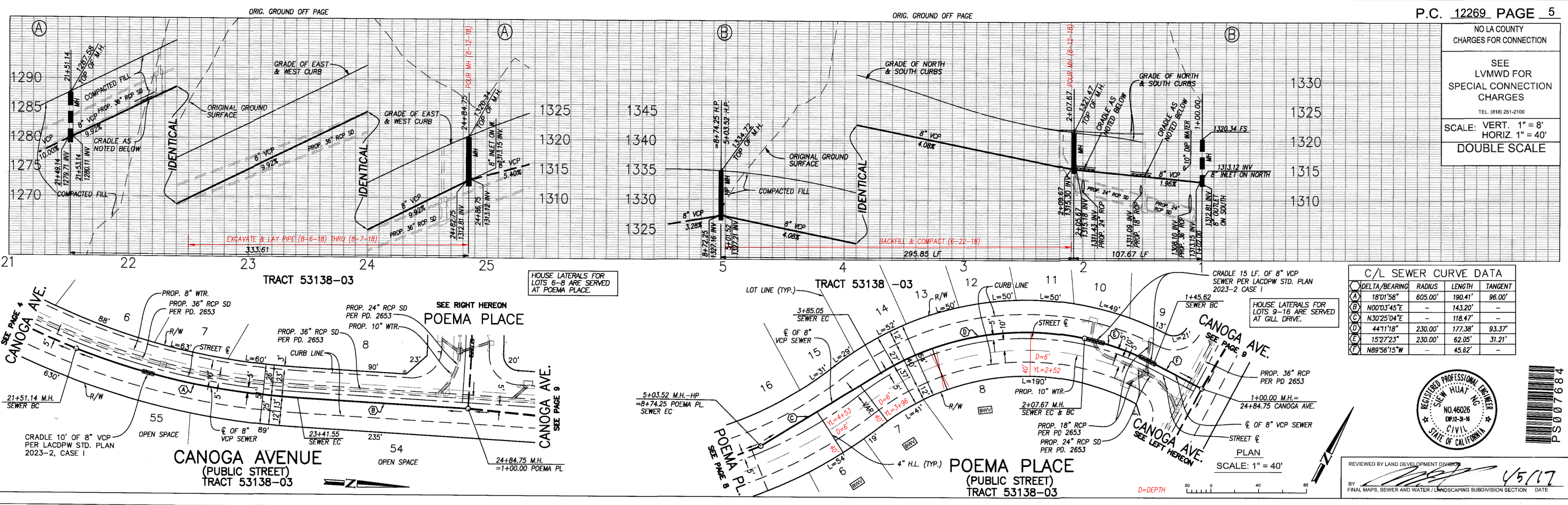


AS BUILT

PLAN
SCALE: 1" = 40'

REVIEWED BY LAND DEVELOPMENT DIVISION
BY: [Signature] DATE: 5/5/17
FINAL MAPS, SEWER AND WATER LANDSCAPING SUBDIVISION SECTION

NO LA COUNTY CHARGES FOR CONNECTION
SEE LVMWD FOR SPECIAL CONNECTION CHARGES
SCALE: VERT. 1" = 8'
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DOUBLE SCALE



C/L SEWER CURVE DATA

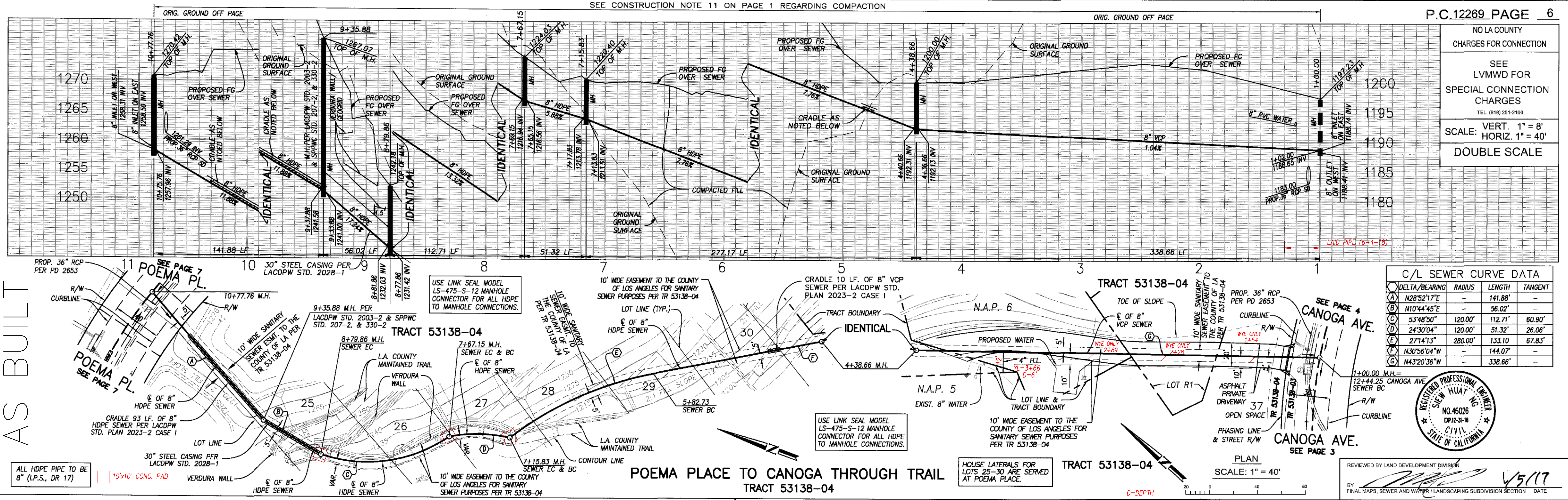
DELTA/BEARING	RADIUS	LENGTH	TANGENT
A) 18°01'58"	605.00'	190.41'	96.00'
B) N00°03'45"E	-	143.20'	-
C) N30°25'04"E	-	118.47'	-
D) 44°11'18"	230.00'	177.38'	93.37'
E) 15°27'23"	230.00'	62.05'	31.21'
F) N89°56'15"W	-	45.62'	-



REVIEWED BY LAND DEVELOPMENT DIVISION
DATE 4/5/17
BY FINAL MAPS, SEWER AND WATER / LANDSCAPING SUBDIVISION SECTION



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SCALE: VERT. 1" = 8'
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DOUBLE SCALE



C/L SEWER CURVE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
A) N28°52'17"E	-	141.88'	-
B) N10°44'45"E	-	56.02'	-
C) 53°48'50"	120.00'	112.71'	60.90'
D) 24°30'04"	120.00'	51.32'	26.06'
E) 27°14'13"	280.00'	133.10'	67.83'
F) N30°56'04"W	-	144.07'	-
G) N43°20'36"W	-	338.66'	-



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BY FINAL MAPS, SEWER AND WATER / LANDSCAPING SUBDIVISION SECTION

AS BUILT

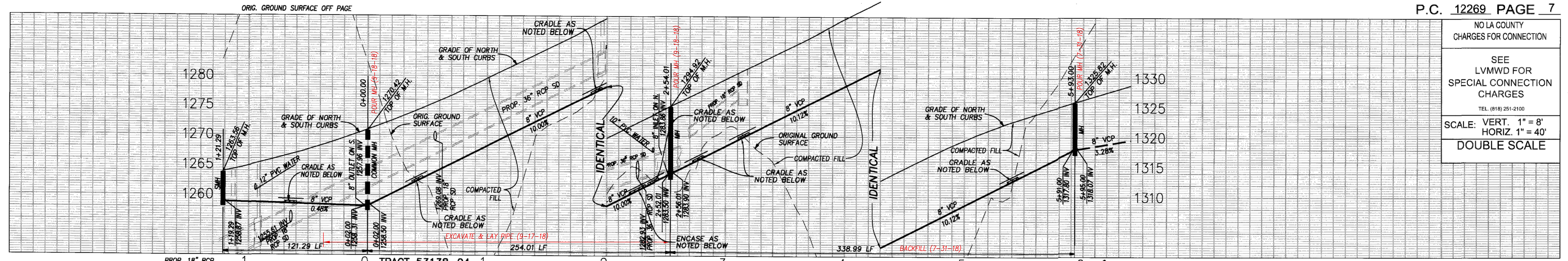
NO LA COUNTY CHARGES FOR CONNECTION

SEE LVMWD FOR SPECIAL CONNECTION CHARGES

TEL (818) 251-2100

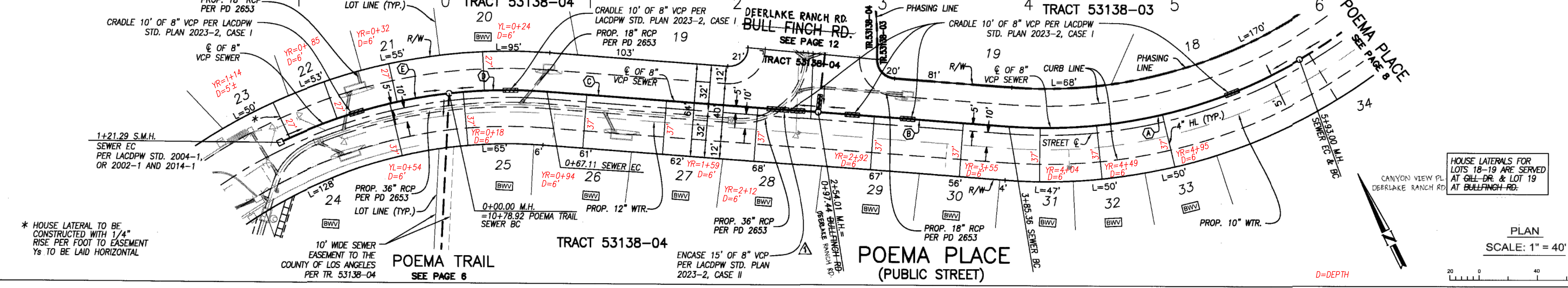
SCALE: VERT. 1" = 8'
HORIZ. 1" = 40'

DOUBLE SCALE



C/L SEWER CURVE DATA

Δ	DELTA/BEARING	RADIUS	LENGTH	TANGENT
A	34°29'00"	345.00'	207.64'	107.07'
B	N59°46'35"W	-	131.35'	-
C	N59°46'35"W	-	186.90'	-
D	10°49'52"	355.00'	67.11'	33.65'
E	19°34'30"	355.00'	121.29'	61.24'



REVIEWED BY LAND DEVELOPMENT DIVISION

BY: [Signature] DATE: 5/5/17

FINAL MAPS, SEWER AND WATER / LANDSCAPING SUBDIVISION SECTION

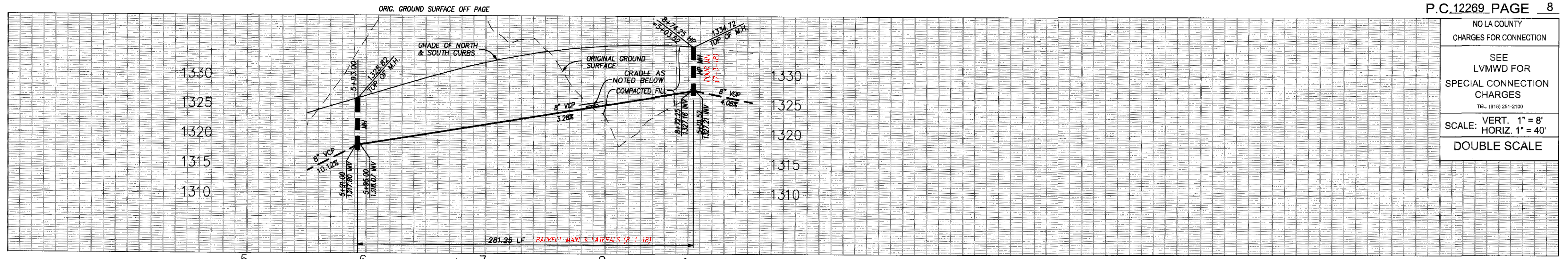
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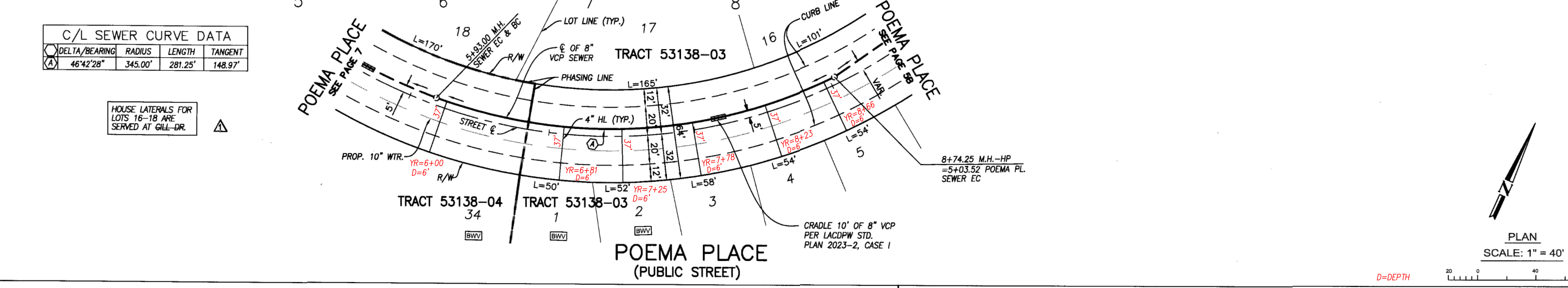
DOUBLE SCALE



C/L SEWER CURVE DATA

Δ	DELTA/BEARING	RADIUS	LENGTH	TANGENT
A	46°42'28"	345.00'	281.25'	148.97'

HOUSE LATERALS FOR LOTS 16-18 ARE SERVED AT GILL-DR.

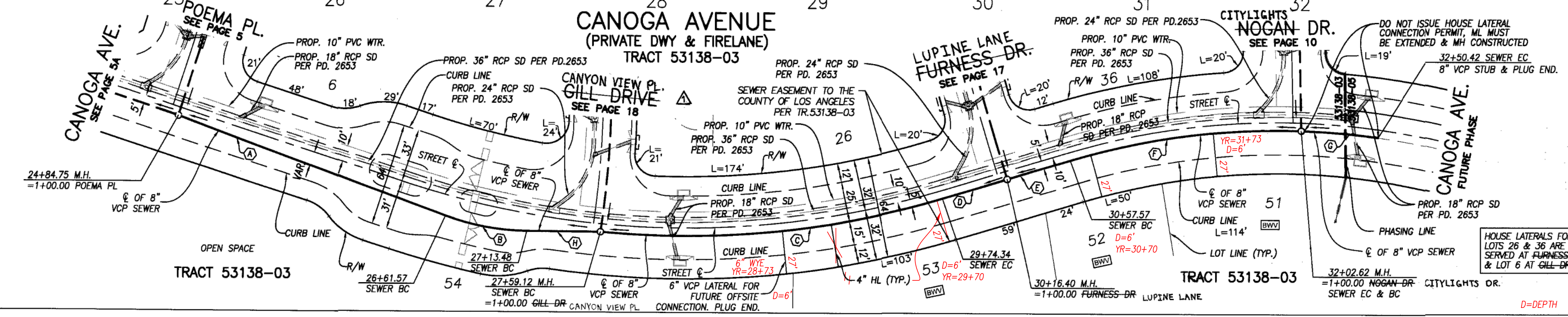
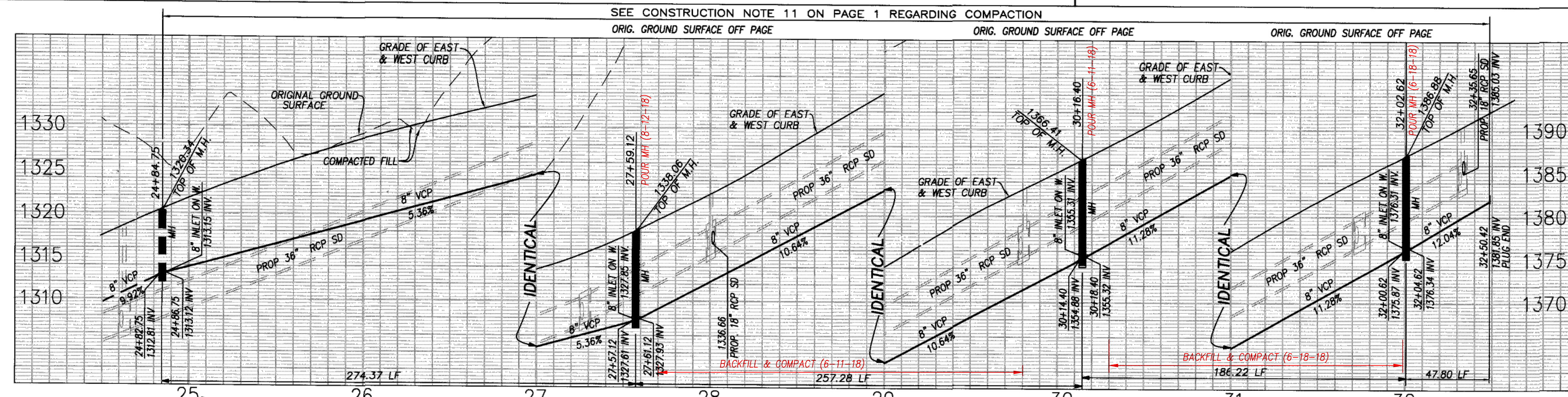


REVIEWED BY LAND DEVELOPMENT DIVISION

BY: [Signature] DATE: 5/5/17

FINAL MAPS, SEWER AND WATER / LANDSCAPING SUBDIVISION SECTION

NO LA COUNTY CHARGES FOR CONNECTION
SEE LVMWD FOR SPECIAL CONNECTION CHARGES
TEL: (818) 251-2100
SCALE: VERT. 1" = 8'
HORIZ. 1" = 40'
DOUBLE SCALE



C/L SEWER CURVE/LINE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
N02°21'58"E	-	176.82'	-
S19°49'37"W	150.00'	51.91'	26.22'
S22°13'04"W	555.00'	215.22'	108.98'
N34°48'27"W	-	42.06'	-
N34°48'27"W	-	41.17'	-
S18°40'36"W	445.00'	145.05'	73.18'
S06°09'14"W	445.00'	47.80'	23.92'
N17°27'39"W	-	45.64'	-



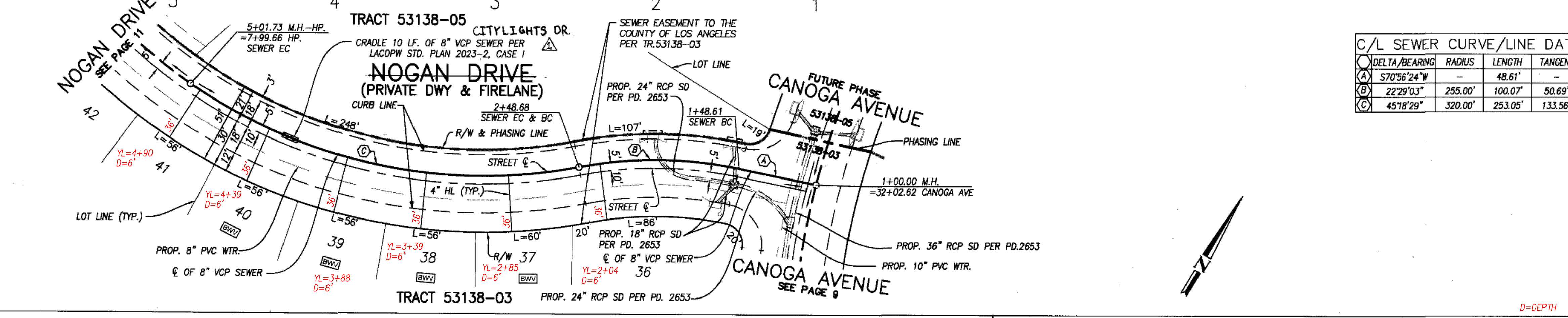
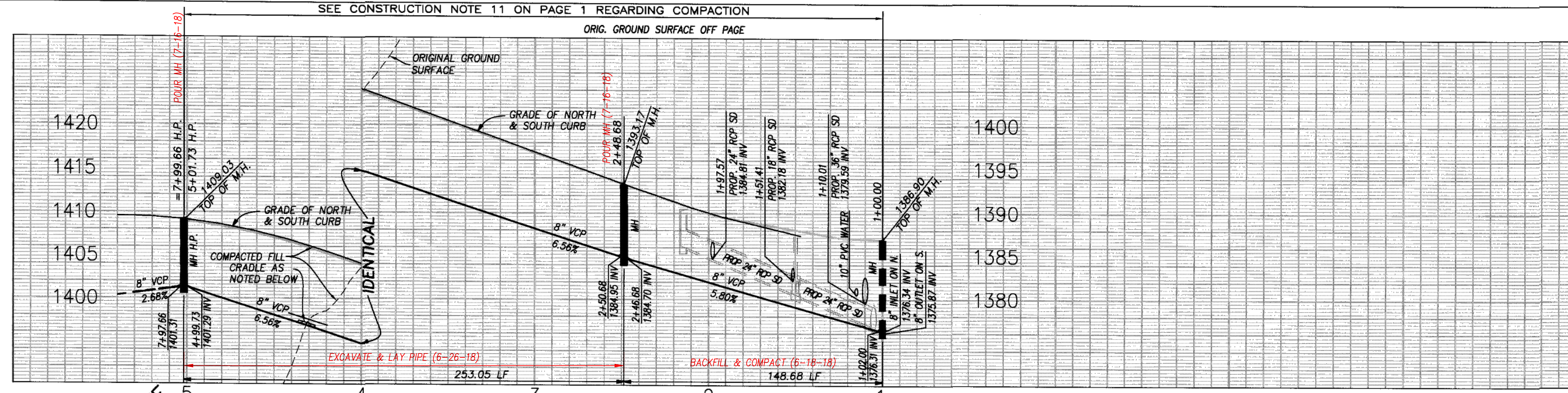
LUPINE LANE PLAN
SCALE: 1" = 40'

REVIEWED BY LAND DEVELOPMENT DIVISION
DATE: 4/5/17

SHEET 5

AS BUILT

NO LA COUNTY CHARGES FOR CONNECTION
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SCALE: VERT. 1" = 8'
HORIZ. 1" = 40'
DOUBLE SCALE



C/L SEWER CURVE/LINE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
S70°56'24"W	-	48.61'	-
S22°29'03"W	255.00'	100.07'	50.69'
S45°18'29"W	320.00'	253.05'	133.56'



PLAN
SCALE: 1" = 40'

REVIEWED BY LAND DEVELOPMENT DIVISION
DATE: 4/5/17

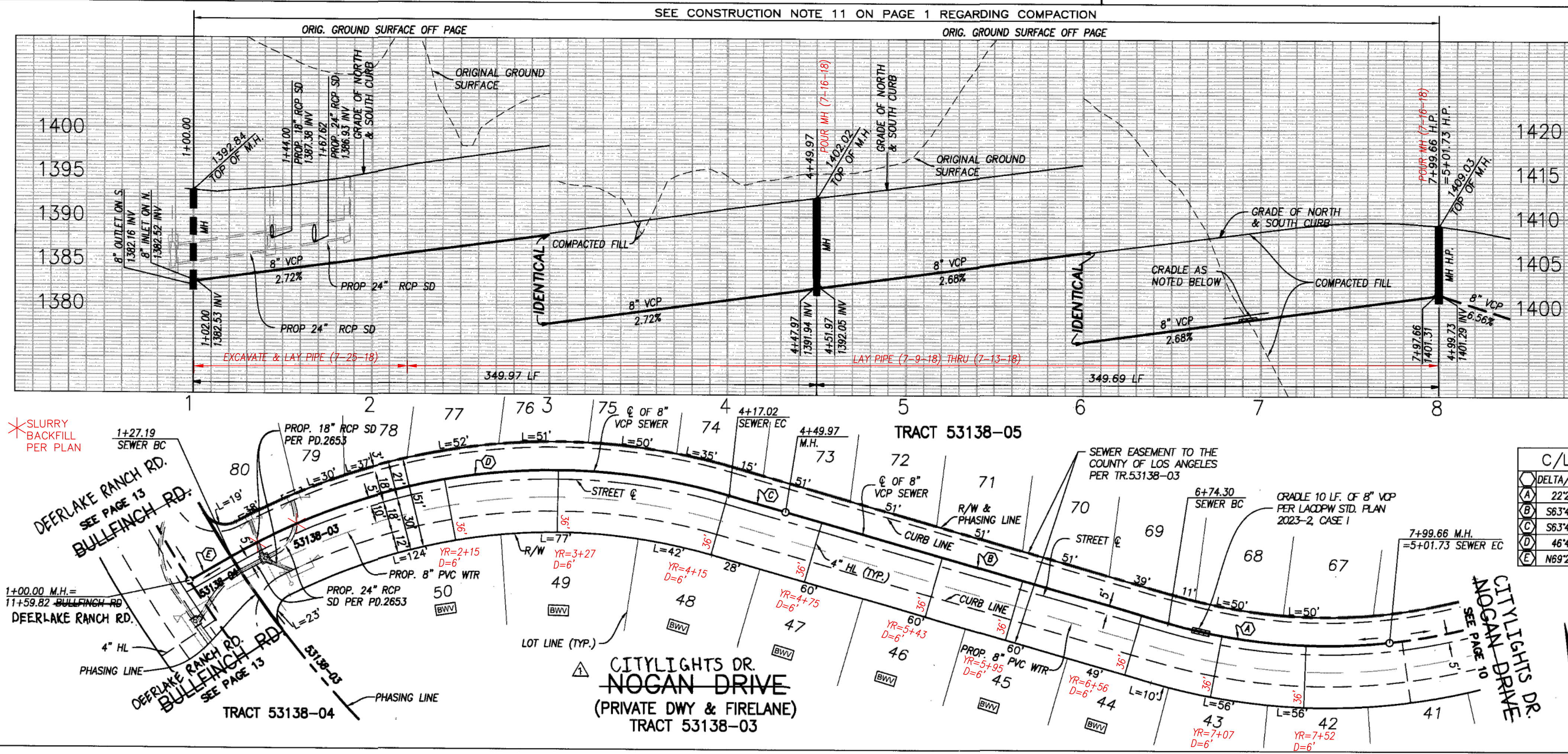
NO LA COUNTY CHARGES FOR CONNECTION

SEE LVMWD FOR SPECIAL CONNECTION CHARGES

TEL: (818) 251-2100

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

DOUBLE SCALE



C/L SEWER CURVE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
22°26'42"	320.00'	125.36'	63.49'
56°34'28"E	-	224.33'	-
56°34'28"E	-	32.95'	-
46°46'17"	355.00'	289.83'	153.54'
N69°25'35"E	-	27.19'	-

HOUSE LATERALS FOR LOTS 67-80 ARE SERVED AT-KOENIG-WY. PER TR. 53138-05



PLAN SCALE: 1" = 40'

REVIEWED BY LAND DEVELOPMENT DIVISION

DATE: 5/5/17

SHEET 6

AS BUILT

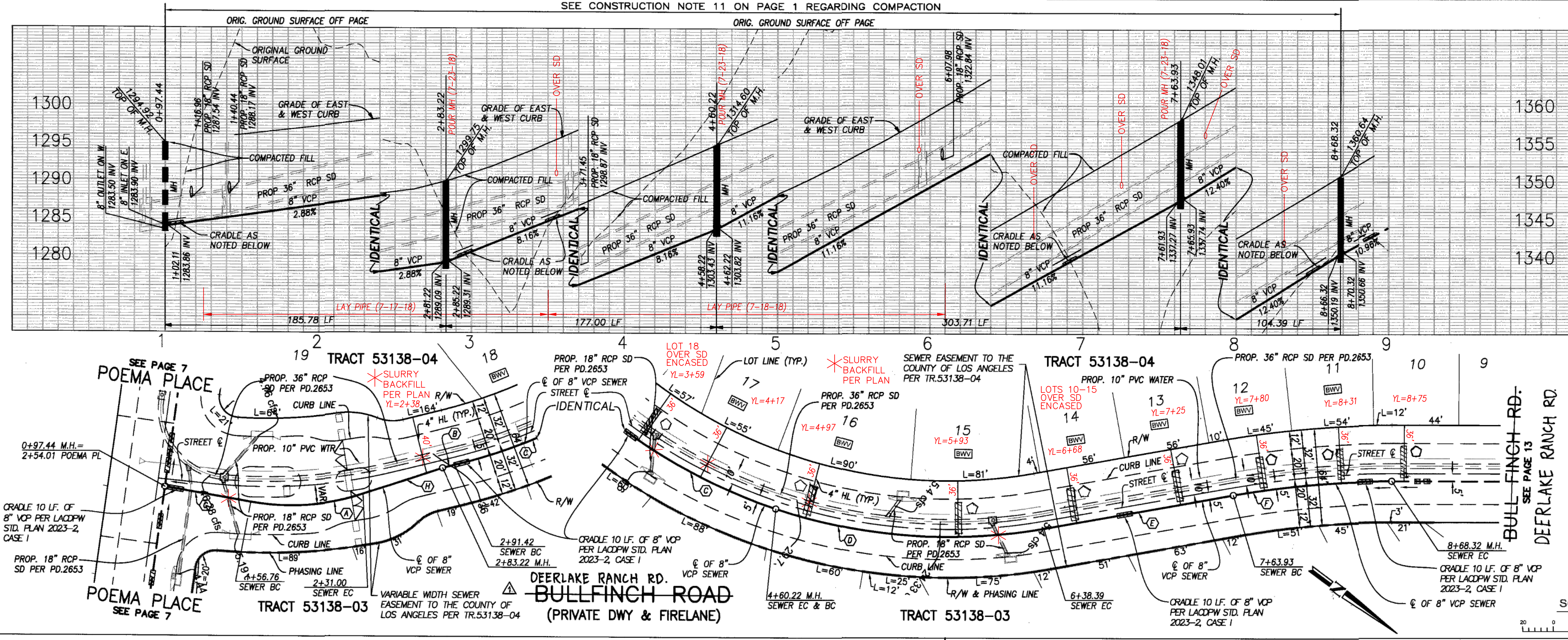
NO LA COUNTY CHARGES FOR CONNECTION

SEE LVMWD FOR SPECIAL CONNECTION CHARGES

TEL: (818) 251-2100

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

DOUBLE SCALE



C/L SEWER CURVE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
28°21'29"	150.00'	74.24'	37.90'
N08°35'18"E	-	8.20'	-
27°14'37"	355.00'	168.80'	86.03'
28°45'21"	355.00'	178.17'	91.00'
N47°24'41"W	-	125.54'	-
10°21'56"	577.00'	104.39'	52.34'
N32°28'50"E	-	56.76'	-
N04°07'21"E	-	54.78'	-

CONSTRUCT 4" HL PER SPPWC STD. PLAN 222-2, TYPE C ENCASE 17 LF. OF 4" HL PER LACDPW STR. PLAN 2023-2, CASE 11.

HOUSE LATERAL TO BE 4.5 TO 5 FEET BELOW TOP OF CURB TO TOP OF 4" VCP LATERAL. INSTALL 4" VCP HL, MIN. 6" ABOVE STORM DRAIN AND MIN. 12" BELOW WATER.

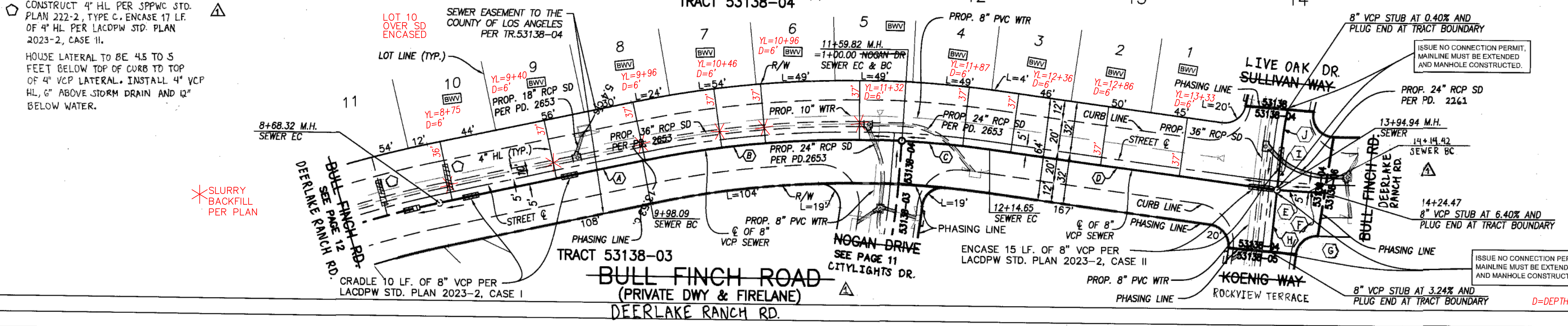
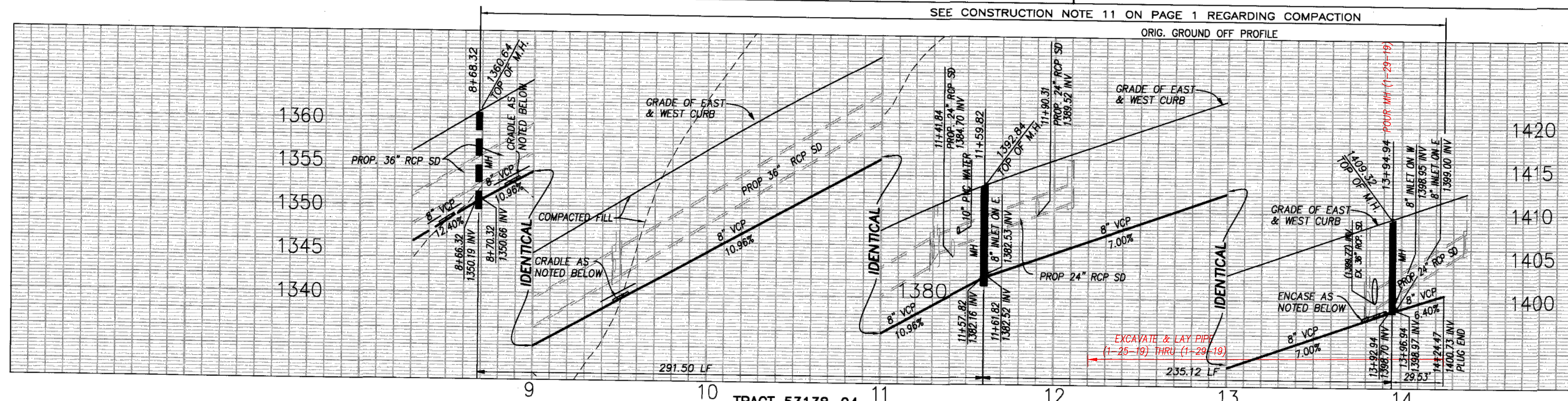


PLAN SCALE: 1" = 40'

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DATE: 5/5/17

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SCALE: VERT. 1" = 8'
HORIZ. 1" = 40'
DOUBLE SCALE



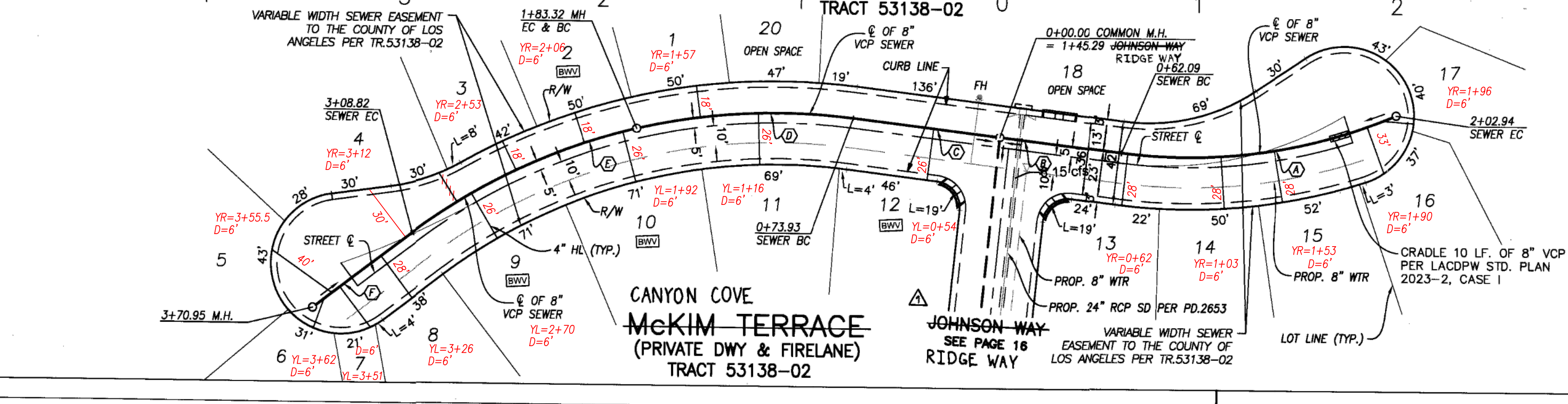
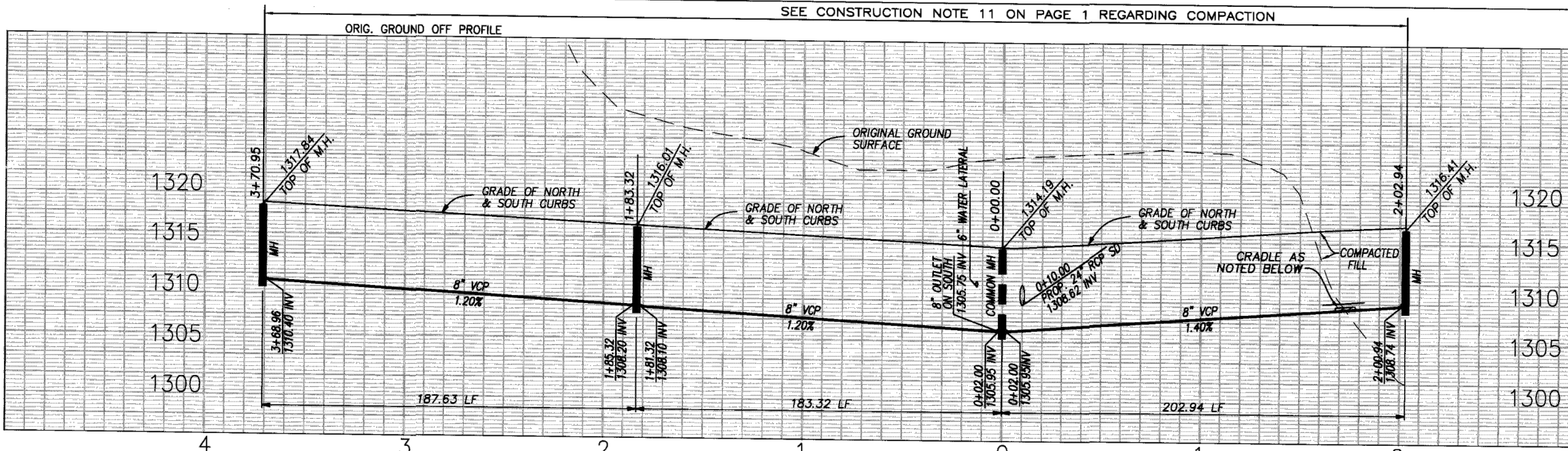
C/L SEWER CURVE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
N37°02'45"W	-	129.77'	-
N14°46'45"W	627.00'	161.73'	81.32'
S05°00'38"W	627.00'	54.83'	27.40'
N17°15'22"W	-	180.29'	-
S21°40'28"E	-	19.48'	-
N1°08'23"W	305.00'	10.05'	5.02'
S71°04'05"W	-	33.79'	-
S71°04'05"W	-	28.02'	-
S5°41'03"W	225.00'	22.71'	11.37'



REVIEWED BY LAND DEVELOPMENT DIVISION
DATE 1/5/17
BY FINAL MAPS, SEWER AND WATER/LANDSCAPING SUBDIVISION SECTION

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HORIZ. 1" = 40'
DOUBLE SCALE



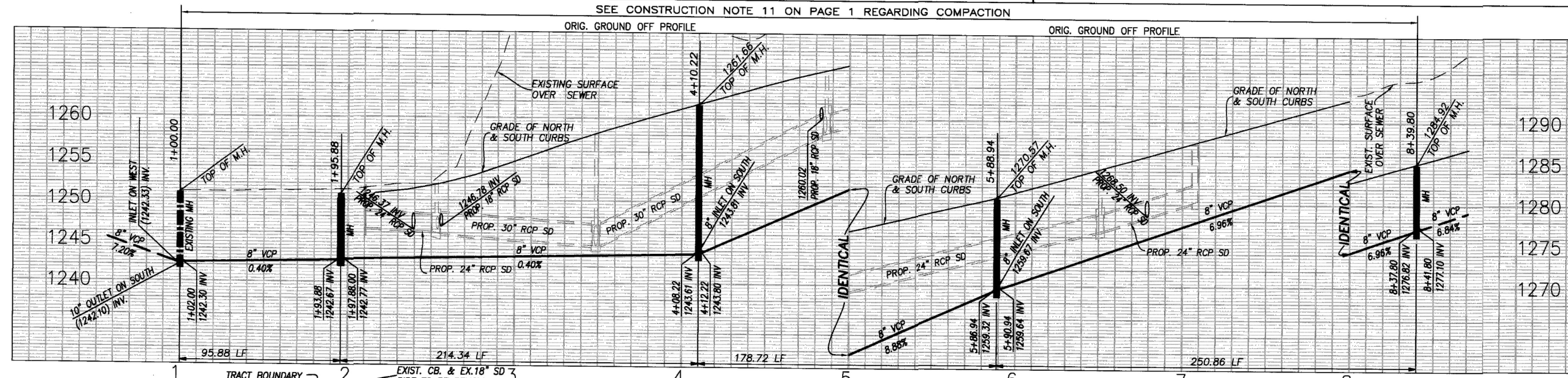
C/L SEWER CURVE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
A 30°27'13"	265.00'	140.85'	72.13'
B S80°19'30"E	-	62.09'	-
C N80°19'30"W	-	73.93'	-
D 20°32'59"	305.00'	169.39'	55.29'
E 23°34'31"	305.00'	125.50'	63.65'
F S55°33'00"W	-	62.13'	-



REVIEWED BY LAND DEVELOPMENT DIVISION
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BY FINAL MAPS, SEWER AND WATER/LANDSCAPING SUBDIVISION SECTION

AS BUILT



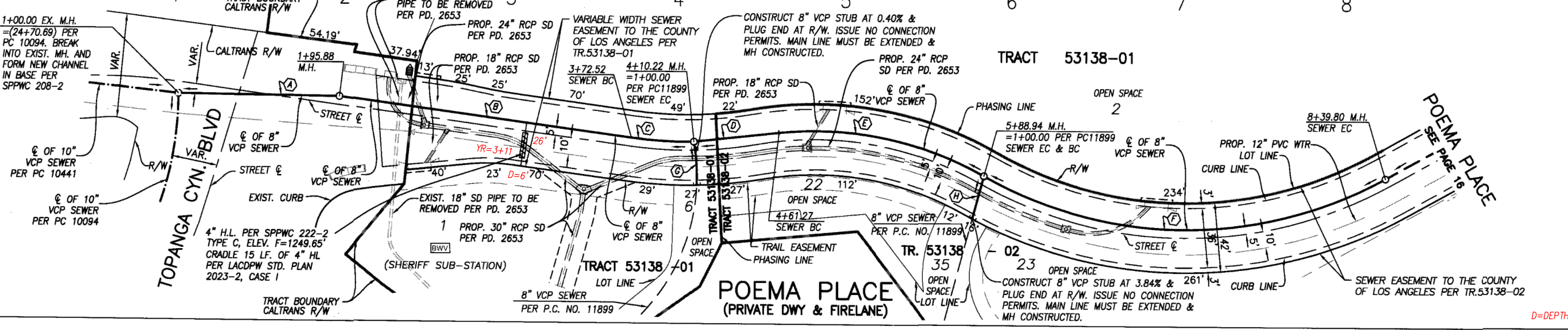
NO LA COUNTY CHARGES FOR CONNECTION

SEE LVMWD FOR SPECIAL CONNECTION CHARGES

TEL: (818) 251-2100

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

DOUBLE SCALE



C/L SEWER CURVE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
A N83°56'30"E	—	95.88'	—
B S88°56'42"E	—	176.64'	—
C 08°49'03"	245.00'	37.70'	18.89'
D N77°09'49"E	—	51.05'	—
E 35°41'02"	205.00'	127.67'	65.98'
F 58°40'00"	245.00'	250.86'	137.68'
G 122°7'08"	120.00'	26.08'	13.09'
H S08°24'37"W	—	26.76'	—



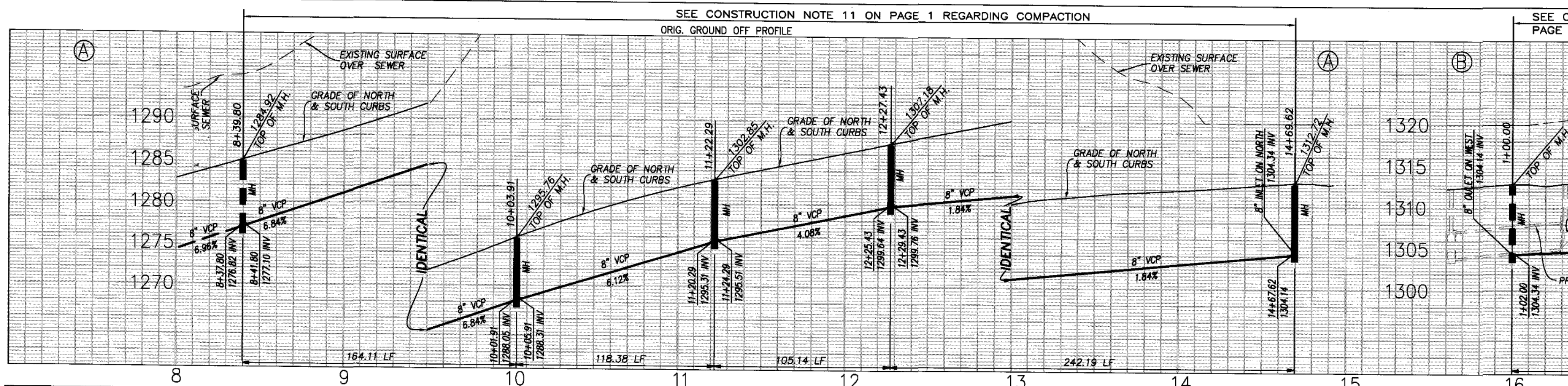
PLAN SCALE: 1" = 40'

REVIEWED BY LAND DEVELOPMENT DIVISION

DATE: 1/5/17

BY: [Signature]

AS BUILT



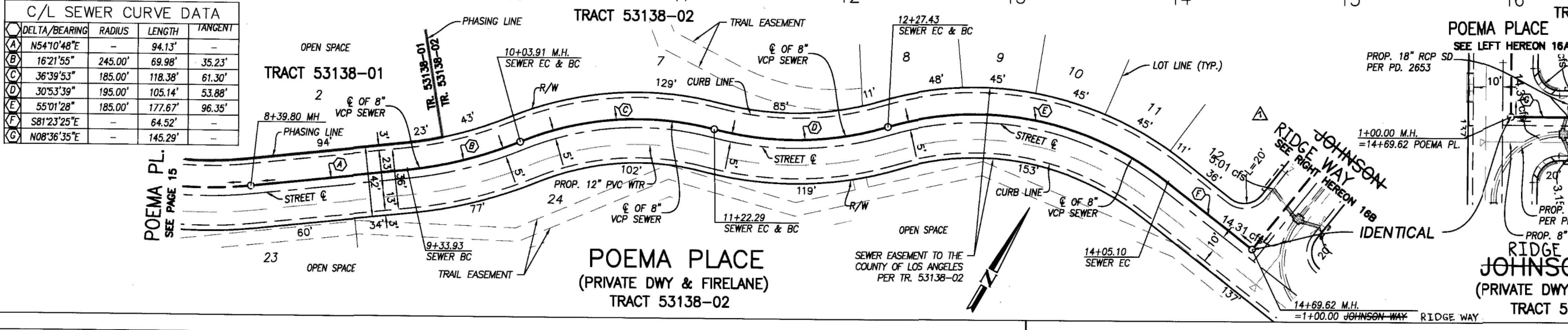
NO LA COUNTY CHARGES FOR CONNECTION

SEE LVMWD FOR SPECIAL CONNECTION CHARGES

TEL: (818) 251-2100

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

DOUBLE SCALE



C/L SEWER CURVE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
A N54°10'48"E	—	94.13'	—
B 162°1'55"	245.00'	69.98'	35.23'
C 36°39'53"	185.00'	118.38'	61.30'
D 30°53'39"	195.00'	105.14'	53.88'
E 55°01'28"	185.00'	177.67'	96.35'
F S81°23'25"E	—	64.52'	—
G N08°36'35"E	—	145.29'	—



PLAN SCALE: 1" = 40'

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BY: [Signature]

HOUSE LATERALS FOR LOTS 7-13 ARE SERVED AT MCKIM TERRACE CANYON COVE

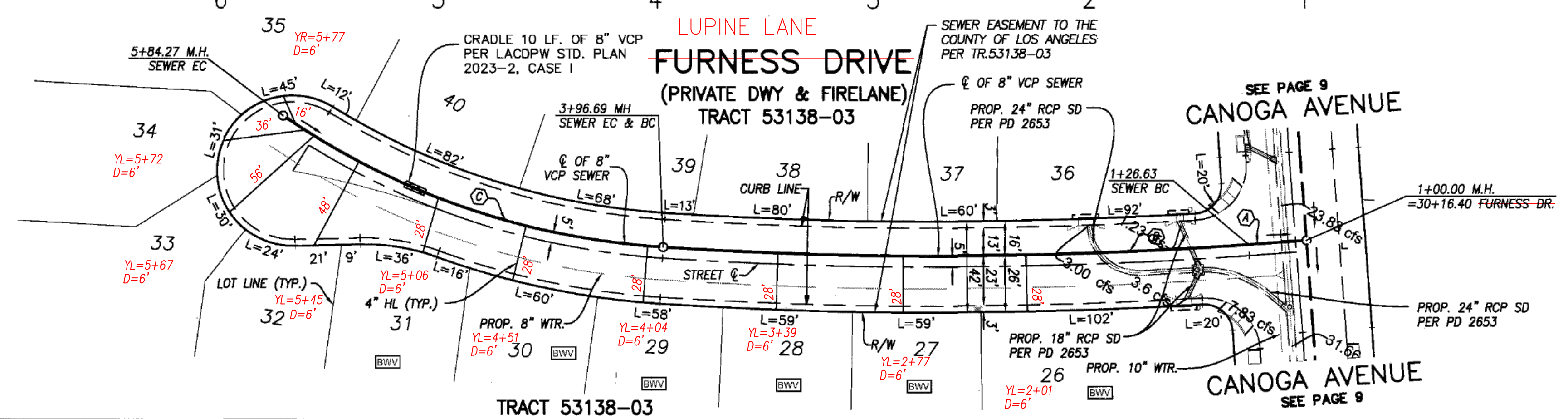
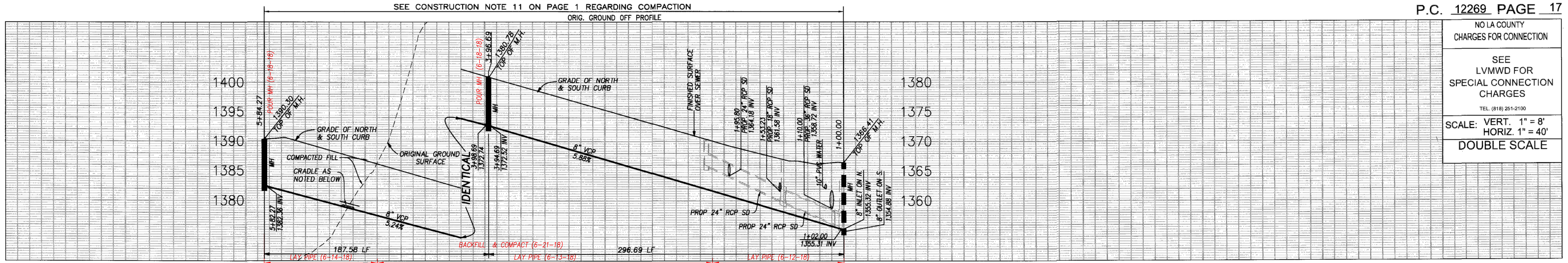
NO LA COUNTY
CHARGES FOR CONNECTION

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CHARGES

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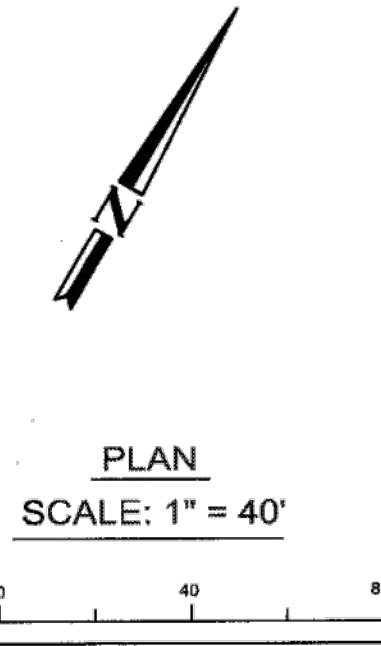
SCALE: VERT. 1" = 8'
HORIZ. 1" = 40'

DOUBLE SCALE



C/L SEWER CURVE/LINE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
A) N55°11'33"E	26.63'	26.63'	-
B) 07°45'22"	1995.00'	270.06'	135.24'
C) 31°09'08"	345.00'	187.58'	96.17'



REGISTERED PROFESSIONAL ENGINEER
SIEW HUAT NG
NO. 46026
EXP. 12-31-16
CIVIL
STATE OF CALIFORNIA

REVIEWED BY LAND DEVELOPMENT DIVISION
DATE: 4/5/17

BY: [Signature]
FINAL MAPS, SEWER AND WATER / LANDSCAPING SUBDIVISION SECTION

AS BUILT

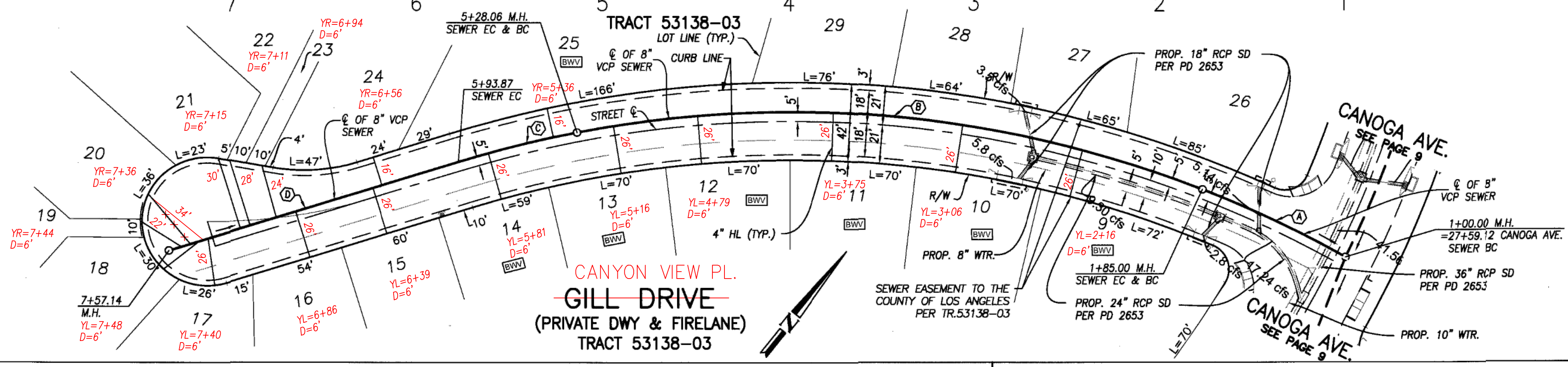
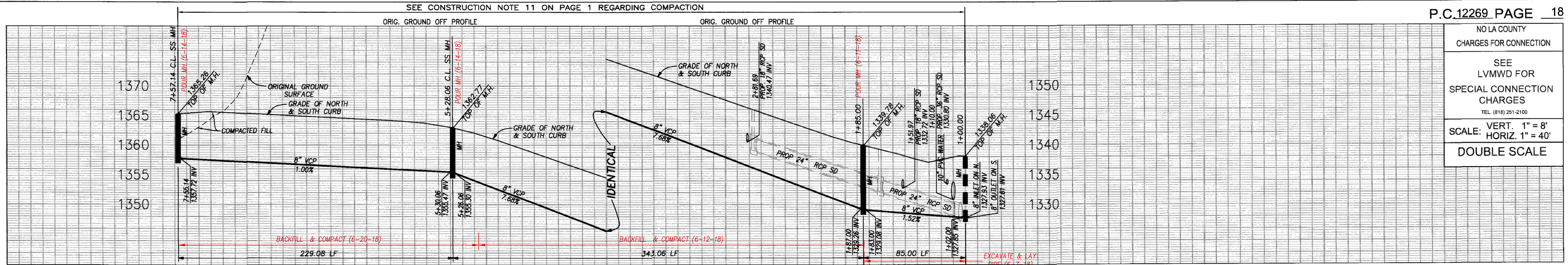
NO LA COUNTY
CHARGES FOR CONNECTION

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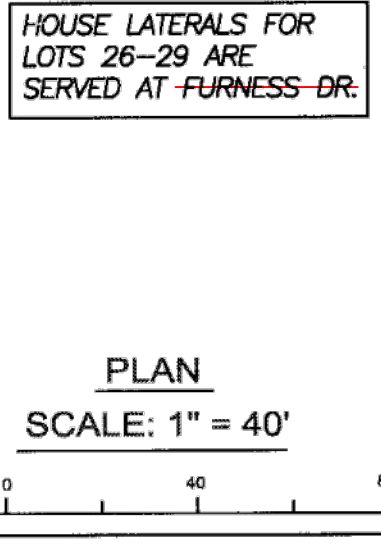
SCALE: VERT. 1" = 8'
HORIZ. 1" = 40'

DOUBLE SCALE



C/L SEWER CURVE/LINE DATA

DELTA/BEARING	RADIUS	LENGTH	TANGENT
A) 08°02'59"	605.00'	85.00'	42.57'
B) 32°29'21"	605.00'	34.306'	176.28'
C) 06°13'58"	605.00'	65.81'	32.94'
D) S33°51'29"W	-	163.27'	-



REGISTERED PROFESSIONAL ENGINEER
SIEW HUAT NG
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CIVIL
STATE OF CALIFORNIA

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