

PROFILE, ALIGNMENT, AND GRADE OF SANITARY SEWERS TO BE CONSTRUCTED IN TRACT NO. 48086 PC NO. 12034 5 SHEETS: 9 PAGES COUNTY OF LOS ANGELES CALIFORNIA CSDM INDEX N-1512

MARK PASTRELLA LA COUNTY DIRECTOR OF PUBLIC WORKS APPROVED BY LAND DEVELOPMENT DIVISION BY [Signature] ASSISTANT DIVISION ENGINEER DATE 8/15/18 SUBMITTED BY [Signature] DATE 8/15/18

SANTA CLARITA VALLEY SANITATION DISTRICT OF LOS ANGELES COUNTY, CALIFORNIA GRACE ROBINSON HYDE - CHIEF ENGINEER AND GENERAL MANAGER APPROVED BY [Signature] OFFICE ENGINEER DATE 9/19/18

CITY OF SANTA CLARITA APPROVAL TRACT/PARCEL ADDRESS 48086 PC NO. 12034 CITY OF SANTA CLARITA DISCHARGE OUTLET APPROVED WE APPROVE THIS SEWER AREA STUDY PLAN AND CONCUR WITH THE FOLLOWING FINDINGS WITHIN THE CITY NO MITIGATION WITH MITIGATION APPROVED BY [Signature] CITY ENGINEER DATE 9/19/2018

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 SET SUFFICIENT CONTROLLING WITNESS AND PERMANENT MONUMENTS; AND SHALL FILE THE REQUISITE CORNER RECORD OR RECORD OF SURVEY OF THE BENCHMARKS WITH THE COUNTY SURVEYOR.

[Signature] ENGINEER/SURVEYOR SEAL & SIGNATURE DATE 07/26/18

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 MR. RAY GARDNER OF GENERAL TELEPHONE COMPANY AT 1-805-948-4871 SO THAT THEY CAN MARK THE LOCATION OF UNDERGROUND TELEPHONE LINES. [Signature] PROJECT ENGINEER DATE 7/26/18

PRIVATE CONTRACT SEWER GENERAL NOTES

- 1. 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... 2. When work is within a contract city sewer construction permit shall be obtained and a fee paid for construction inspection and record plans to the City... 3. 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... 4. If work is done in a State Highway, a permit must be obtained from the State of California Division of Highways... 5. The contractor shall contact the district office listed in the "Application for Construction Permit" to arrange for an acceptable construction start date... 6. 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 or the existence or nonexistence of any underground utility pipe or structure within the limits of this project... 7. 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)... 8. 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 County of Los Angeles Department of Public Works Standard Plan No. 6008-1... 9. Elevations are in feet above U.S.C. and G.S. sea level datum of 1988... 10. No revisions shall be made in these plans without the approval of the County of Los Angeles Department of Public Works... 11. No representative of the County of Los Angeles Department of Public Works will survey or layout any portion of the work... 12. Grades to which this improvement is to be constructed are shown on plans and profiles. Grade point for top of curbs, centerline of streets, or centerline of alleys, is shown by circles on profiles at all points between said designated points... 13. The private engineer shall furnish the County of Los Angeles Department of Public Works with grade sheets and stationing for all house laterals and all "T" and "Y" branches and shall provide stakes for them at their proper locations with stationing plainly marked... 14. 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... 15. An approved backwater valve is required when the pad is lower in elevation than the top of the next upstream manhole... 16. Contact Environmental Programs Division for an Industrial Waste Discharge Permit at (626) 458-3517.

CONSTRUCTION NOTES

- 1. Provide survey stakes on the property line or property lines produced at right angles to the sewer line at the centerline of each manhole... 2. Verified clay pipe joints shall be type "D" or "C" per "Standard Specifications for Public Works Construction" Section 209-2... 3. 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... 4. All joints between cast-iron pipe and vitrified 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... 5. House laterals to be constructed with inverts at the property line 6 feet below curb grade except as noted... 6. Wee or tee branches may be used for connections to the mainline sewers except as noted... 7. 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... 8. 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 203-3), or reinforced precast manhole per LACDPW Standard Plan 2003-2, except as noted... 9. Resurface all trenches within paved areas to meet Department of Public Works or California State Highway requirements in accordance with the permits... 10. Full compliance with Section 306-1.3 of the "Standard Specifications for Public Works Construction" will be required for backfill in street... 11. All backfill and fill outside of the street right of way shall be compacted to 90 percent of the maximum density as determined by ASTM Soil Compaction Test for PUBLIC USE BY THE COUNTY OF LOS ANGELES... 12. Manhole tops in unimproved rights of way to be six inches above finished grade... 13. 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... 14. Manhole tops in improved rights of way to be level with finished grade... 15. 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... 16. All pipe materials shall be vitrified clay pipe or ductile iron pipe or other approved materials by the County of Los Angeles Department of Public Works... 17. All Ductile iron pipe shall be lined with Procton 401 Ceramic Epoxy lining... 18. Cured in place pipe liner shall be used for all extra vitrified clay pipe if lining is required... 19. All Chimneys shall have terminal cleanout structure per SPPWC std. plan 204-2 with a traffic rated frame and cover.

BENCH MARKS

LOS ANGELES COUNTY BENCHMARK NO. L 5013 LA COUNTY ROAD DEPT BENCHMARK MONUMENT SET 24 FEET NORTH OF THE CENTERLINE OF SOLEDAD CANYON ROAD, 1315 FEET WEST OF CARLA ROAD, 6 FEET NORTHWEST OF A POWER POLE AND 304 FEET EAST OF MILE MARKER NO. ELEVATION 1834.439 (NAVD 88, 1995) 11.89.



STORMWATER POLLUTION PLAN NOTES

- A. NOTES: 1. Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times... 2. 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... 3. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind and water... 4. 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... 5. Grease or waste concrete may not be washed into the public way or any other drainage system... 6. Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind... 7. Sediments and other materials may not be tracked from the site by vehicle traffic... 8. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water... 9. The following BMPs as outlined in, but not limited to, the latest edition of the California BMP Handbook (Construction) or California Stormwater Quality Handbooks (Construction Site BMP Manual), may apply during the construction of this project.

- EROSION CONTROL: E01 SCHEDULING, E02 PRESERVATION OF EXISTING VEGETATION, E03 HYDRIC MULCH, E04 HOEDGING, E05 SOIL BINDERS, E06 STRAW MULCH, E07 SCOTCH PINE MATS, E08 WOOD MULCHING, E09 EARTH DICES AND DRAINAGE SWALES, E10 VELOCITY DISSIPATION DEVICES, E11 SLOPE DRAINS, E12 STREAMBANK STABILIZATION, E13 RESEEDING, E14 COMPOST BLANKETS, E15 SOIL PREPARATION/REWORKING, E16 NON-HERBICID STABILIZATION... NON-STORM WATER MANAGEMENT: NS1 WATER CONSERVATION PRACTICES, NS2 DEMATERING OPERATIONS, NS3 PAVING AND GRINDING OPERATIONS, NS4 TEMPORARY STREAM CROSSING, NS5 CLEAR WATER DIVERSION, NS6 ILLICIT CONNECTION/DISCHARGE, NS7 PORTABLE WATER/IRRIGATION, NS8 WOOD MULCHING, NS9 VEHICLE AND EQUIPMENT FUELING, NS10 VEHICLE AND EQUIPMENT MAINTENANCE, NS11 PILE DRIVING OPERATIONS, NS12 CONCRETE CURING, NS13 CONCRETE FINISHING, NS14 MATERIAL AND EQUIPMENT USE, NS15 SOIL MOISTURE ADJUSTMENT 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 GRAVEL 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 BIO-FILTER BASS.

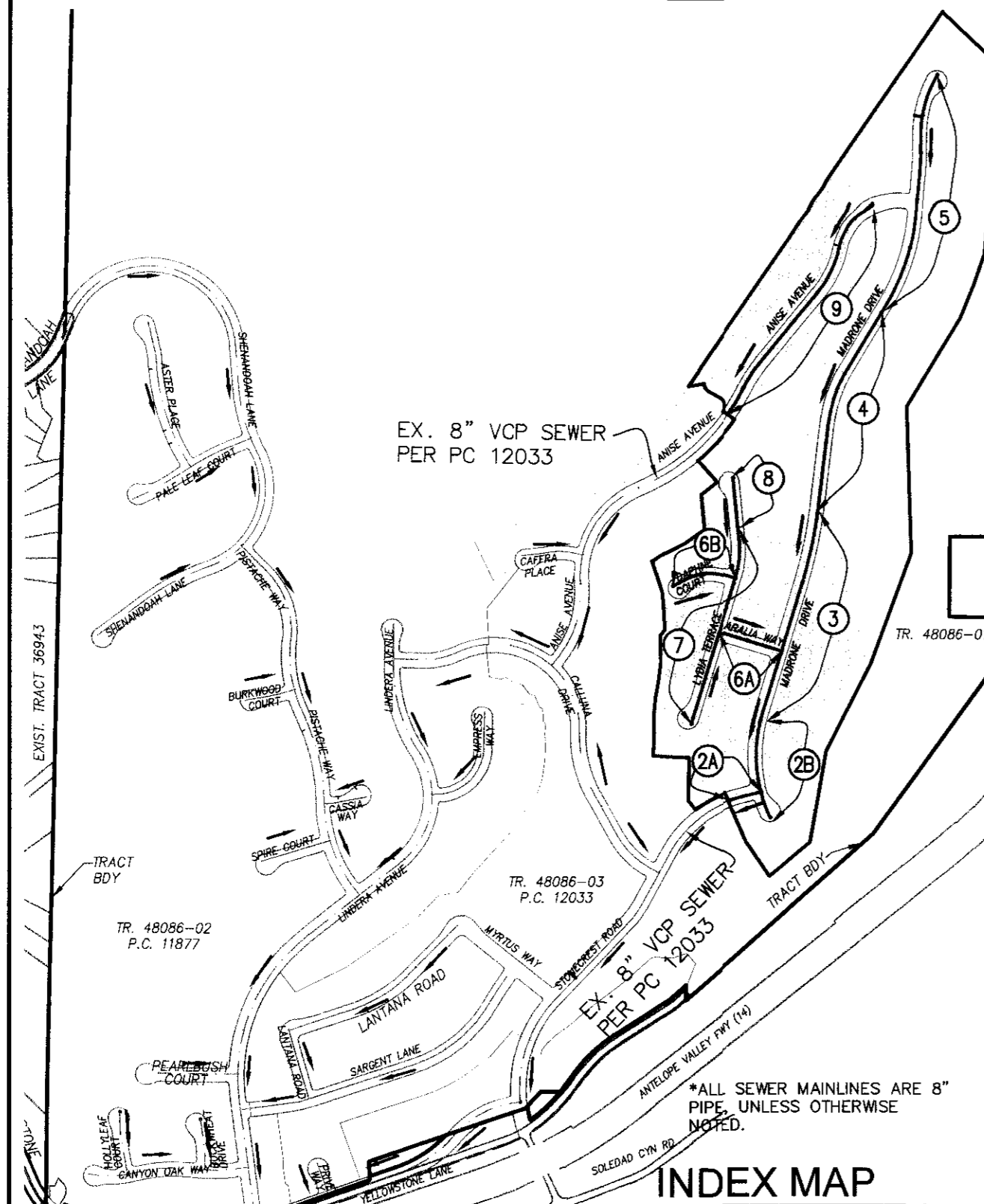
B. STANDARD PLANS

- 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, 2002-1 Precast concrete shallow manhole, 2003-2 Reinforced precast concrete manhole, 2004-1 Rectangular shallow manhole, 2014-1 Rectangular manhole frame and cover, 2019-1 Standard manhole step, 200-3 Precast Concrete Sewer Manhole, 204-2 Terminal Cleanout Structure, 207-2 Precast reinforced concrete manhole base, 208-2 Breaking into existing manholes, 210-3 Manhole frame and cover locking type, 220-3 Chimneys... COUNTY SANITATION DISTRICTS (CSD) NOTES: 1. No connection for the disposal of industrial wastewater shall be made to sewers shown on these plans until a permit for industrial wastewater discharge has been issued by CSD for said connection... 2. Prior to final acceptance of the project, notify the CSD Superintendent of Maintenance at (661) 257-8609 to report completion of construction of this local sewer that indirectly discharges into the CSD sewer system.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)

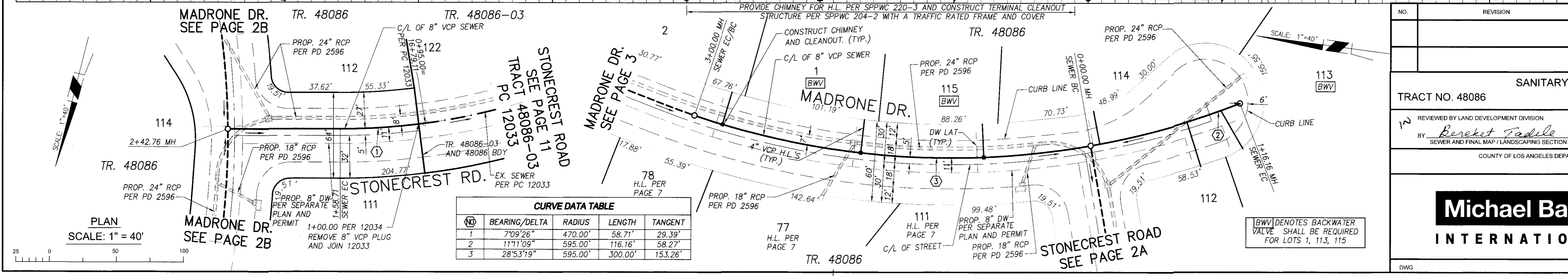
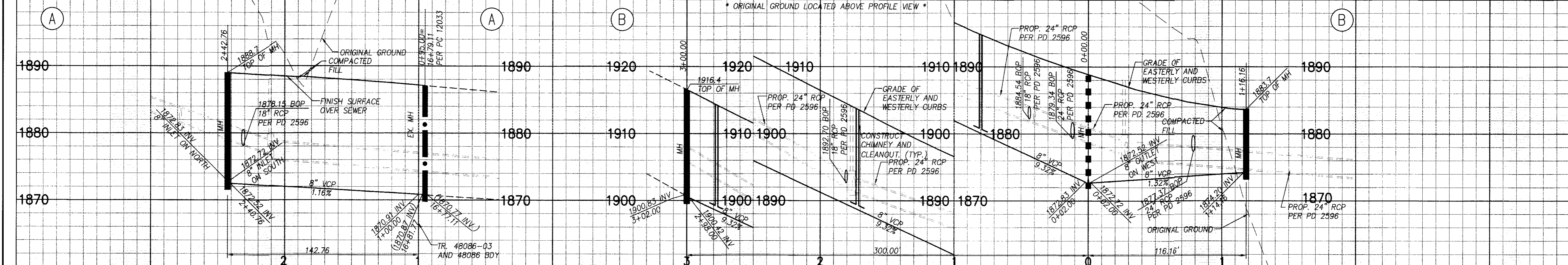
- 200-3 Precast Concrete Sewer Manhole, 204-2 Terminal Cleanout Structure, 207-2 Precast reinforced concrete manhole base, 208-2 Breaking into existing manholes, 210-3 Manhole frame and cover locking type, 220-3 Chimneys

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 Std. Plan 2023-2 at all significant crossings.



BUILDING AND SAFETY DISTRICT OFFICE: SANTA CLARITA SCALE: 1"=600' CSDM INDEX N-1512 TRACT NO. 48086-4 P.C. 12034 THOMAS GUIDE PAGE 4482 TO GRID J6-JS, H5-H6, 4483 TO GRID A4-A5-A6

Table with columns: NO., REVISION, REVISED BY, APPROVED BY, DATE. Contains revision history for the plan.



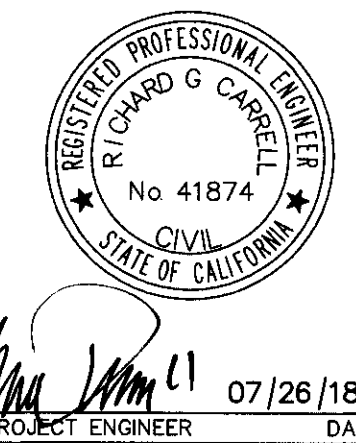
CURVE DATA TABLE with columns: NO., BEARING/Delta, RADIUS, LENGTH, TANGENT. Contains data for three curve segments.

Michael Baker INTERNATIONAL logo and contact information: 5 Hutton Centre Drive, Suite 500 Santa Ana CA 92707 Phone: (949) 472-3505 MBAKERINTL.COM

Table with columns: NO., REVISION, REVISED BY, APPROVED BY, DATE. Contains revision history for the plan.



NO. L.A. Co. CHARGES FOR CONNECTIONS  
SEE CO. SANITATION DISTRICTS FOR SPECIAL CONNECTION CHARGES  
(562) 699-7411, EXT. 2727  
DOUBLE SCALE



DATE 07/26/18

PROVIDE CHIMNEY FOR H.L. PER SPPWC STD. PLAN 220-3 AND CONSTRUCT TERMINAL CLEANOUT STRUCTURE PER SPPWC 204-2 WITH A TRAFFIC RATED FRAME AND COVER

\* LOTS 78-81 ARE SERVICED ON LYDIA TERRACE

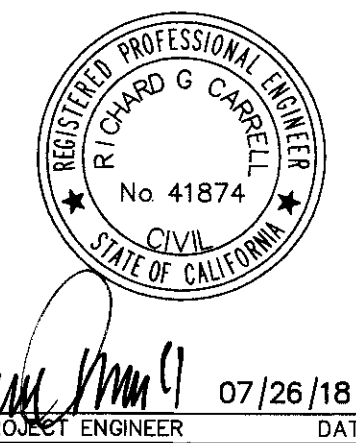
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6	2°39'49"	595.00'	27.66'	13.83'

\*\*\* DENOTES PROFILE TYPE D SEWER HOUSE LATERAL PER SPPWC STD. PLAN 222-2: 4-12

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REVIEWED BY LAND DEVELOPMENT DIVISION  
BY *Berriet Tadele* 08/03/18  
SEWER, SUBDIVISION PLAN CHECKING SECTION DATE

NO. L.A. Co. CHARGES FOR CONNECTIONS  
SEE CO. SANITATION DISTRICTS FOR SPECIAL CONNECTION CHARGES  
(562) 699-7411, EXT. 2727  
DOUBLE SCALE



DATE 07/26/18

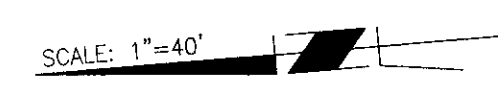
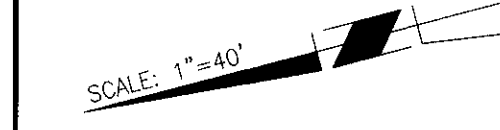
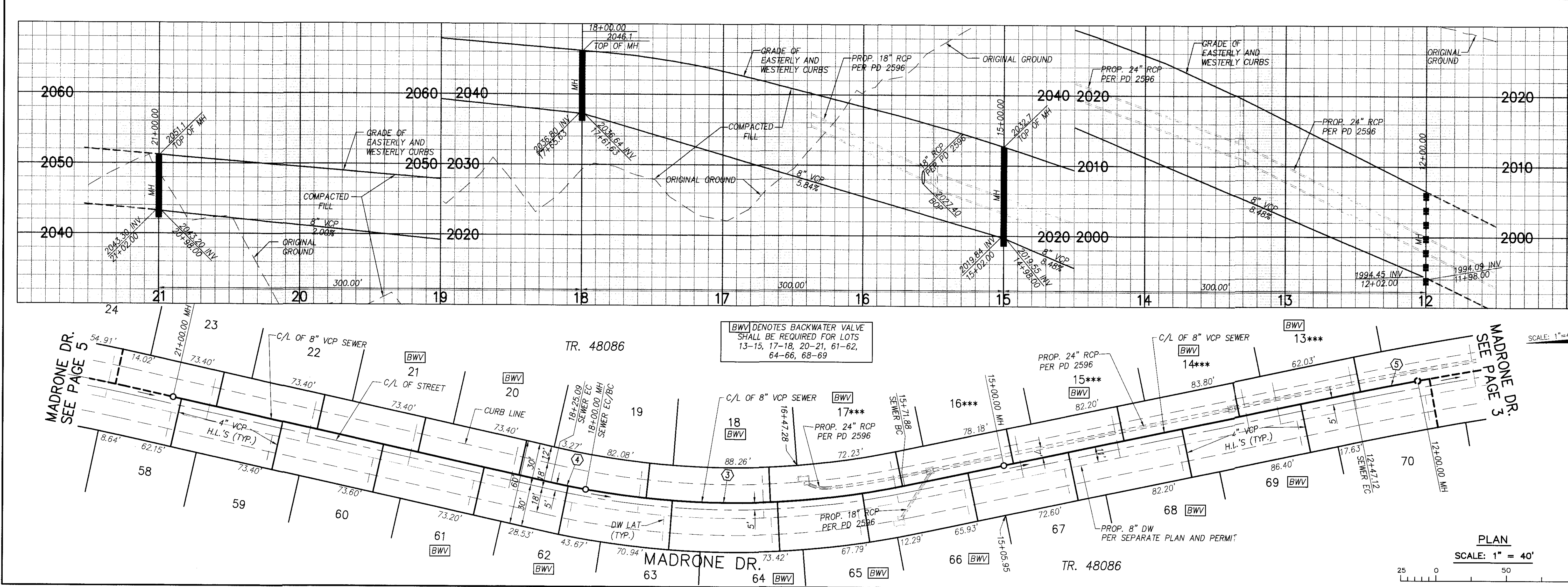
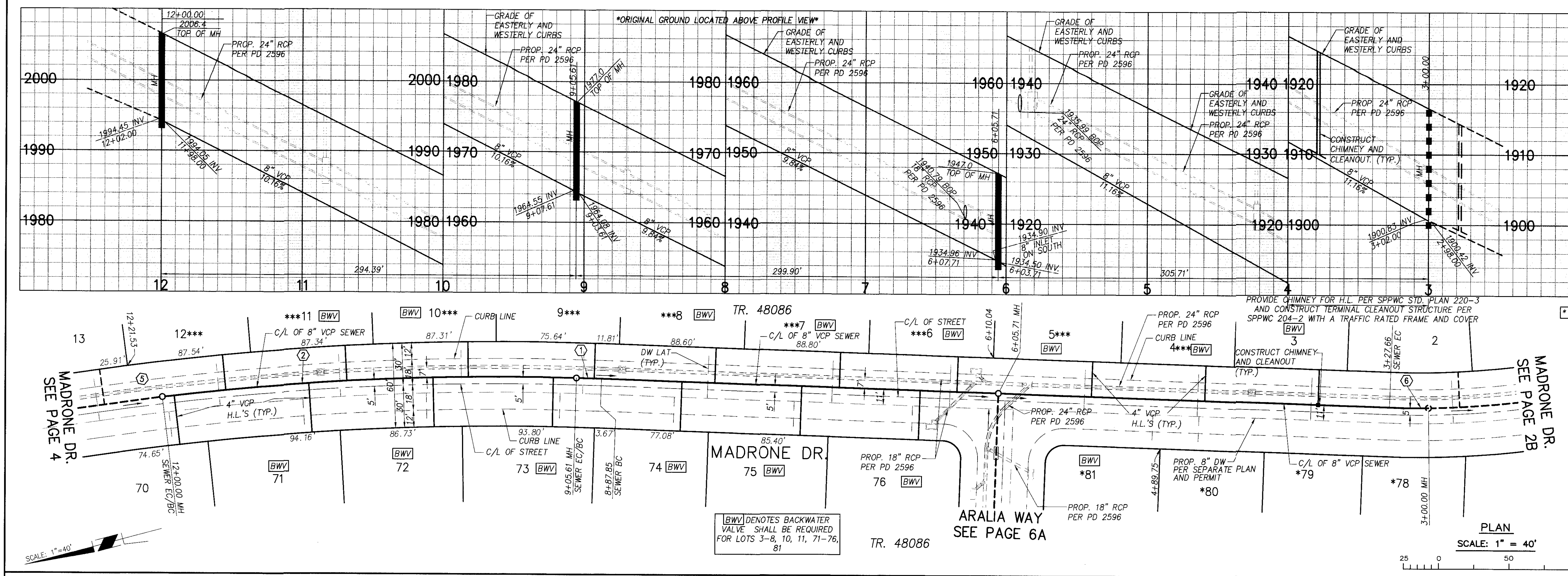
PS007715

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5	01°20'48"	2005.00'	47.12'	23.56'

\*\*\* DENOTES PROFILE TYPE D SEWER HOUSE LATERAL PER SPPWC STD. PLAN 222-2: 13-17

NO.	REVISION	REVISED BY	APPROVED BY	DATE

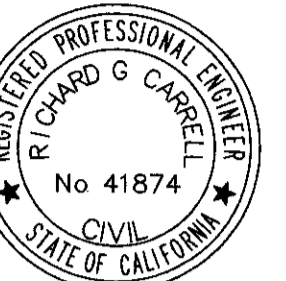
REVIEWED BY LAND DEVELOPMENT DIVISION  
BY *Berriet Tadele* 08/03/18  
SEWER, SUBDIVISION PLAN CHECKING SECTION DATE



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NO. L.A. Co. CHARGES FOR CONNECTIONS  
SEE CO. SANITATION DISTRICTS FOR SPECIAL CONNECTION CHARGES  
(562) 699-7411, EXT. 2727  
DOUBLE SCALE



07/26/18  
PROJECT ENGINEER DATE

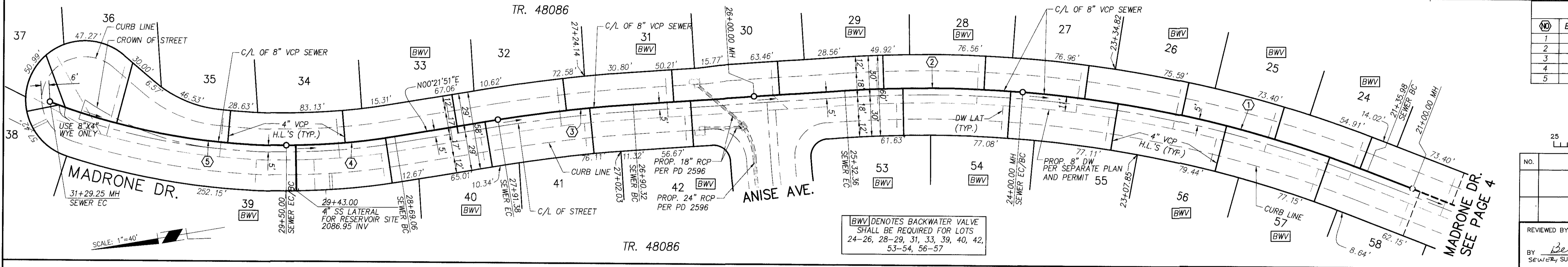
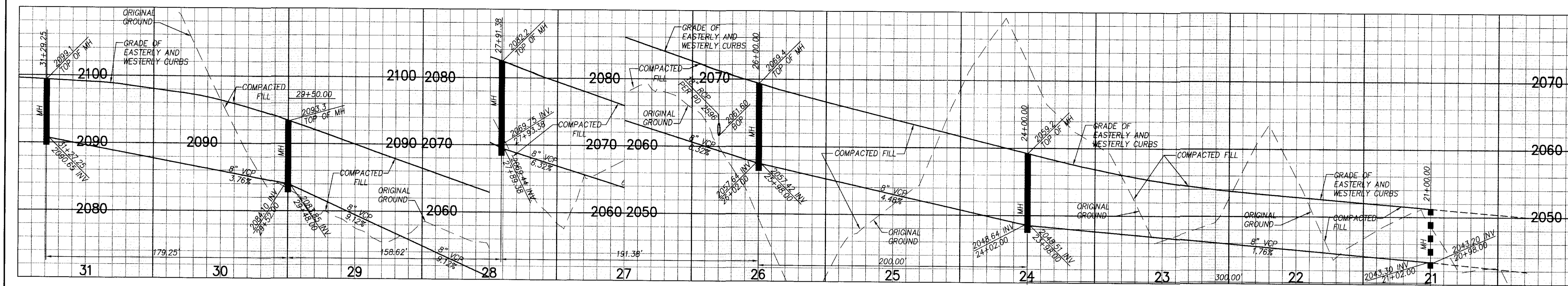
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3	05°32'27"	1045.00'	101.06'	50.57'
4	9°22'07"	495.00'	80.94'	40.56'
5	20°44'53"	495.00'	179.25'	90.62'

PLAN SCALE: 1" = 40'

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REVIEWED BY LAND DEVELOPMENT DIVISION  
BY: *Beraset Tadele* 08/03/18  
SEWER, SUBDIVISION PLAN CHECKING SECTION DATE



NO. L.A. Co. CHARGES FOR CONNECTIONS  
SEE CO. SANITATION DISTRICTS FOR SPECIAL CONNECTION CHARGES  
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DOUBLE SCALE



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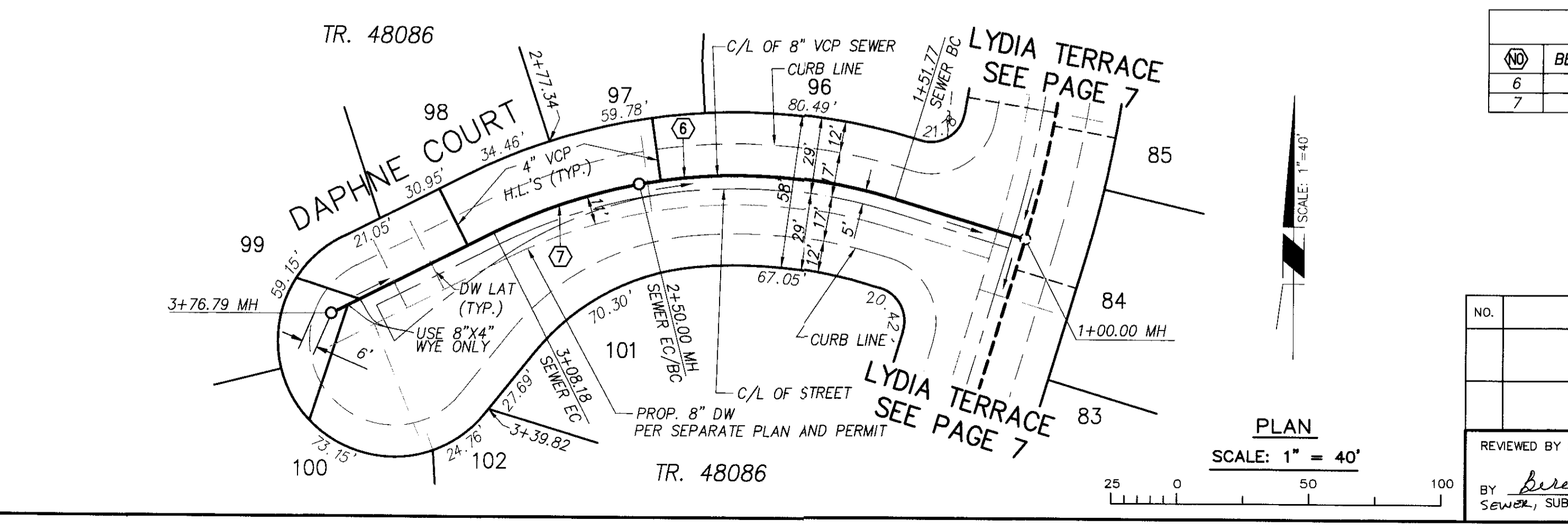
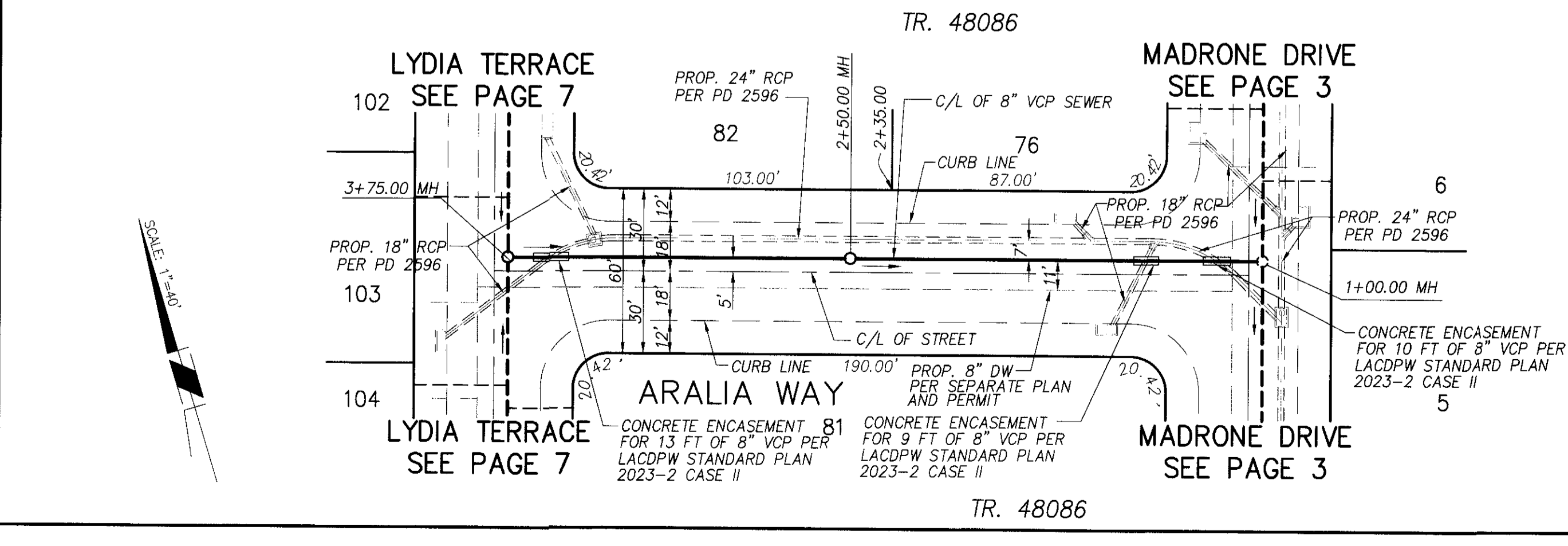
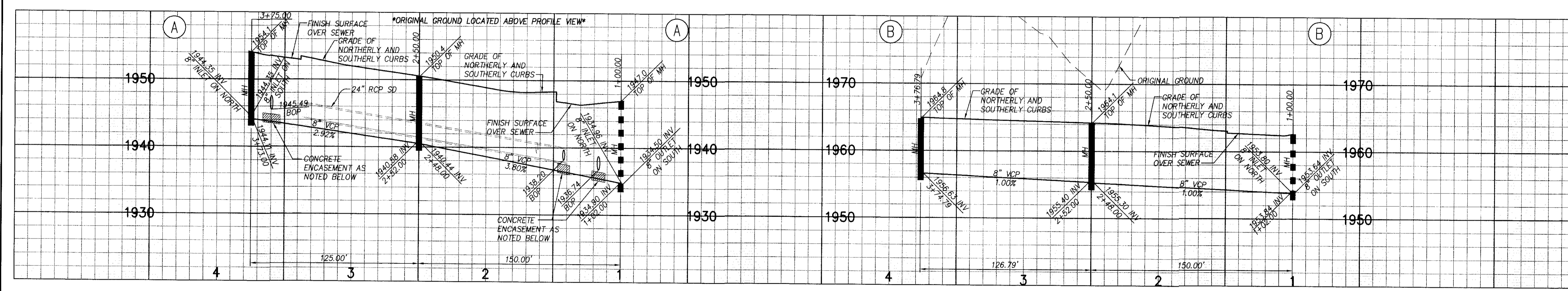
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7	16°15'39"	205.00'	58.18'	29.29'

PS007715

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REVIEWED BY LAND DEVELOPMENT DIVISION  
BY: *Beraset Tadele* 08/03/18  
SEWER, SUBDIVISION PLAN CHECKING SECTION DATE

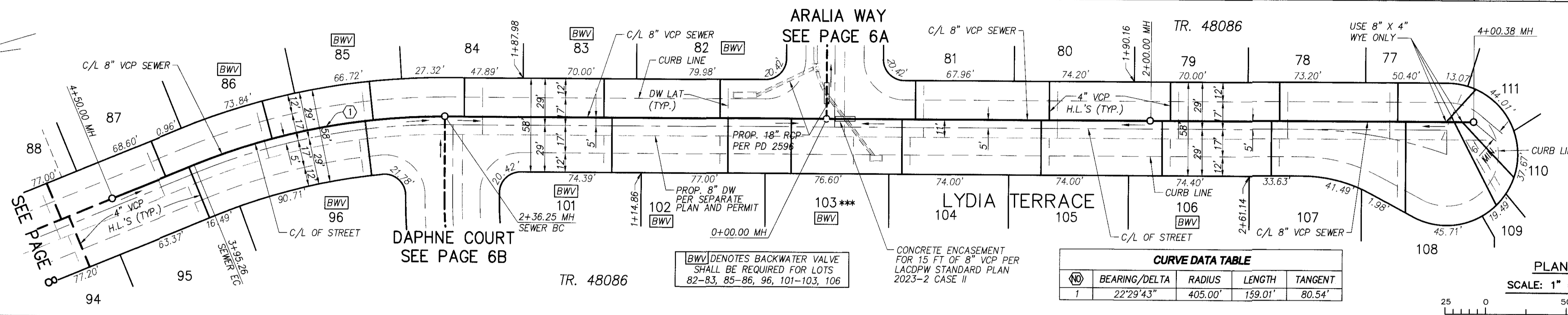
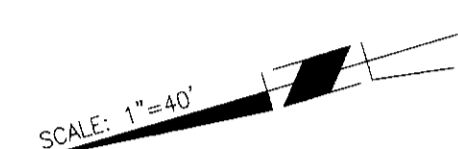
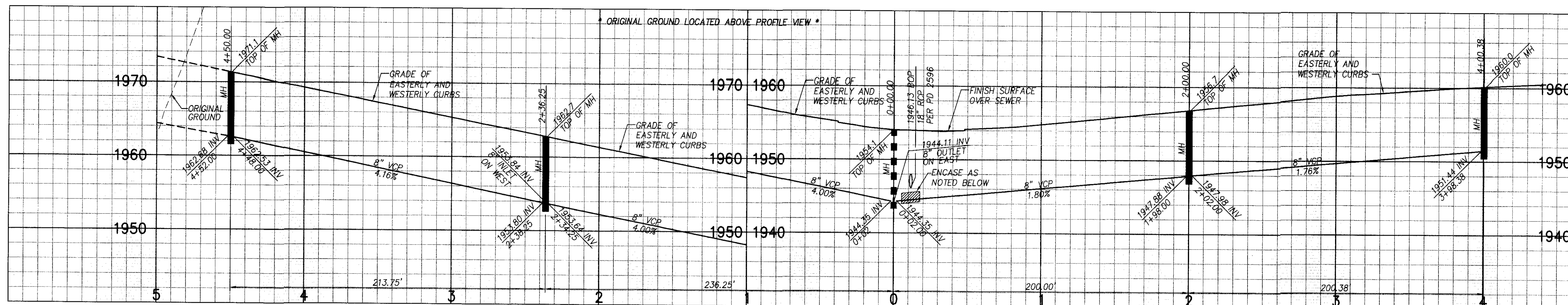




NO. L.A. Co. CHARGES FOR CONNECTIONS  
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DOUBLE SCALE



07/26/18 DATE  
PROJECT ENGINEER



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REVIEWED BY LAND DEVELOPMENT DIVISION  
BY *Buket Tadele* 08/03/18 DATE  
SEWER, SUBDIVISION PLAN CHECKING SECTION

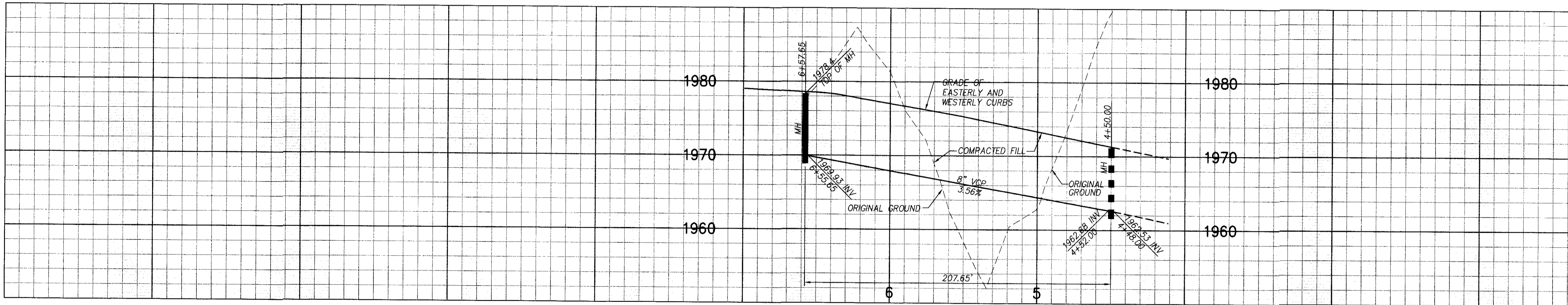
CONCRETE ENCASUREMENT FOR 15 FT. OF 8" VCP PER LACDPW STANDARD PLAN 2023-2 CASE II

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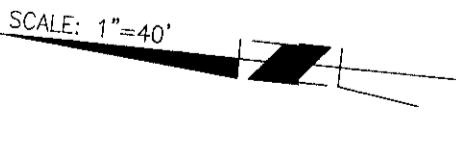
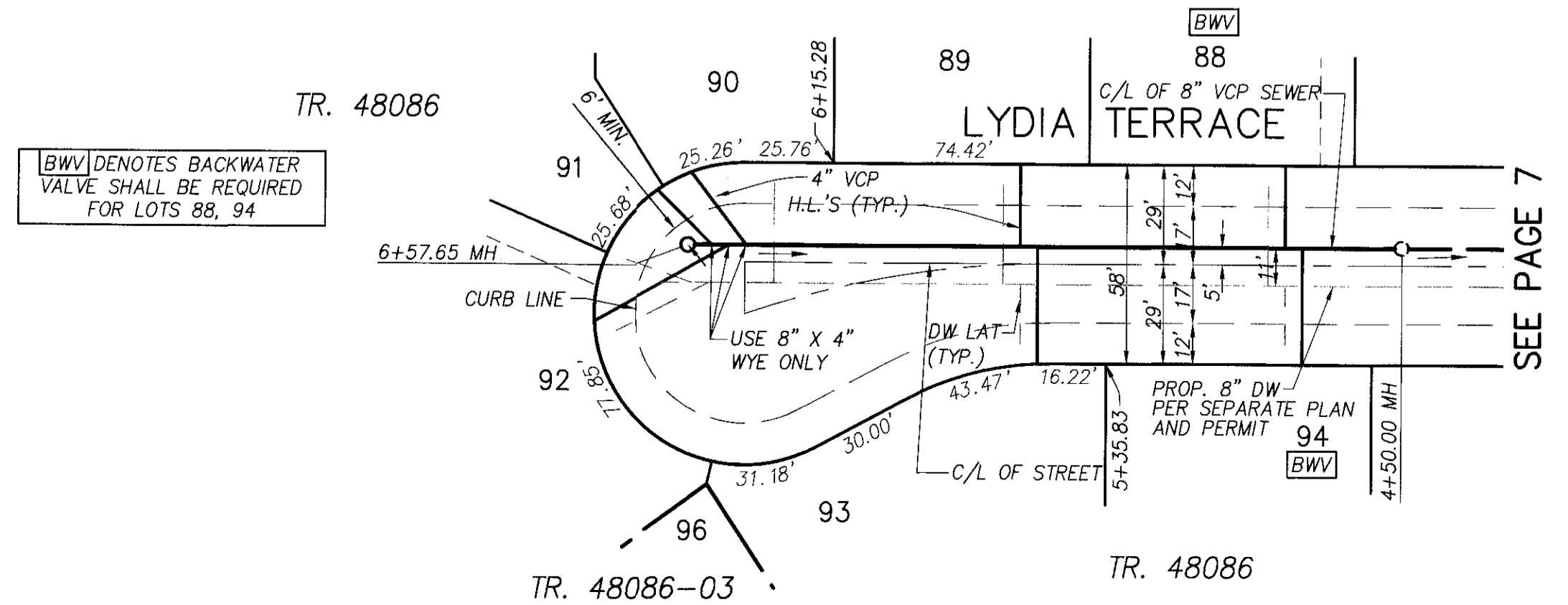
NO. L.A. Co. CHARGES FOR CONNECTIONS  
SEE CO. SANITATION DISTRICTS FOR SPECIAL CONNECTION CHARGES  
(562) 699-7411, EXT. 2727  
DOUBLE SCALE



07/26/18 DATE  
PROJECT ENGINEER



[BWV] DENOTES BACKWATER VALVE SHALL BE REQUIRED FOR LOTS 88, 94



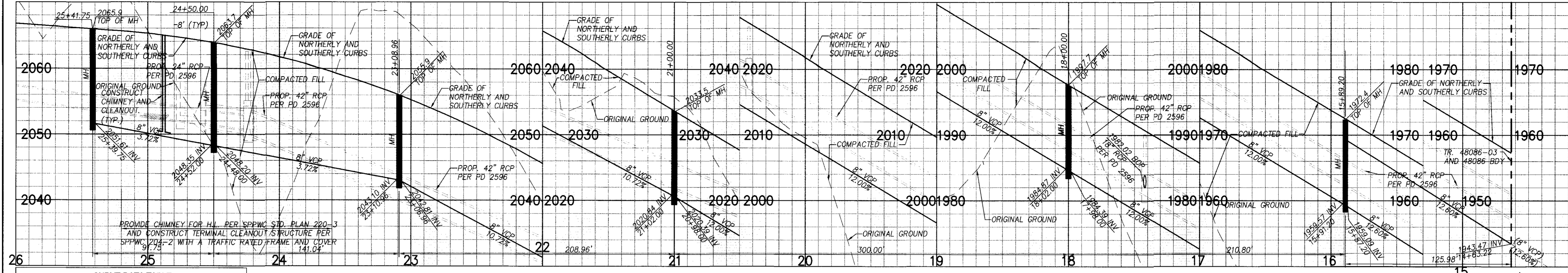
PS007715

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BY *Buket Tadele* 08/03/18 DATE  
SEWER, SUBDIVISION PLAN CHECKING SECTION

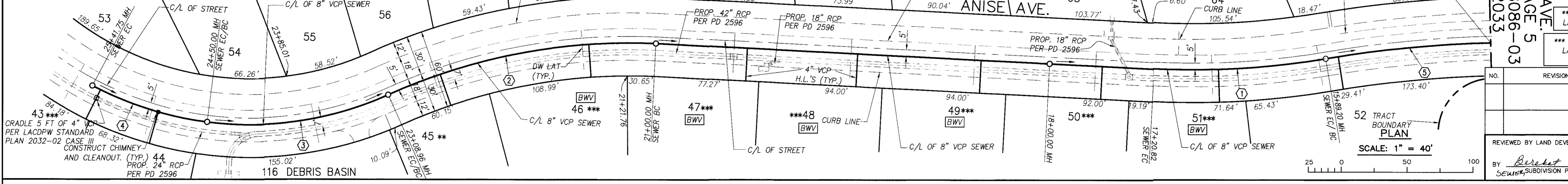
PLAN  
SCALE: 1" = 40'





**CURVE DATA TABLE**

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2	26°54'16"	445.00'	208.96'	106.44'
3	31°41'25"	255.00'	141.04'	72.37'
4	20°36'55"	255.00'	91.75'	46.38'
5	8°03'54"	895.00'	125.98'	63.09'



NO. REVISION REVISED BY APPROVED BY DATE

REVIEWED BY LAND DEVELOPMENT DIVISION

BY *Burton Tadele* 08/03/18  
SEWER SUBDIVISION PLAN CHECKING SECTION DATE

NO. L.A. Co. CHARGES FOR CONNECTIONS

SEE CO. SANITATION DISTRICTS FOR SPECIAL CONNECTION CHARGES  
(562) 699-7411, EXT. 2727

DOUBLE SCALE

REGISTERED PROFESSIONAL ENGINEER  
RICHARD G. CARRELL  
No. 41874  
CIVIL  
STATE OF CALIFORNIA

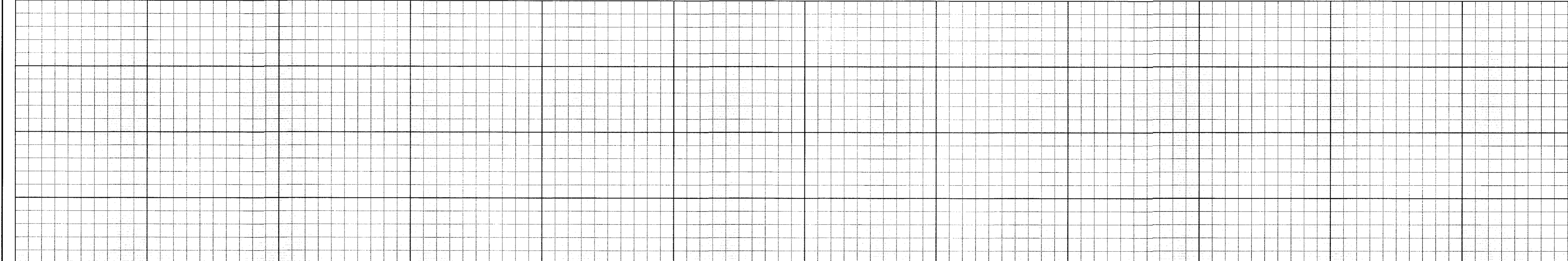
*Richard G. Carrell*  
PROJECT ENGINEER 7/26/18 DATE

ANISE AVE.  
SEE PAGE 5  
TRACT 48086-03  
PC 12033

SCALE: 1" = 40'

14+63.22 PER 12034 REMOVE 8" VCP PLUG AND JOIN 12033  
PROP. 12" DW PER SEPARATE PLAN AND PERMIT, 89.80

116 DEBRIS BASIN



NO. L.A. Co. CHARGES FOR CONNECTIONS

SEE CO. SANITATION DISTRICTS FOR SPECIAL CONNECTION CHARGES  
(562) 699-7411, EXT. 2727

DOUBLE SCALE

REGISTERED PROFESSIONAL ENGINEER  
RICHARD G. CARRELL  
No. 41874  
CIVIL  
STATE OF CALIFORNIA

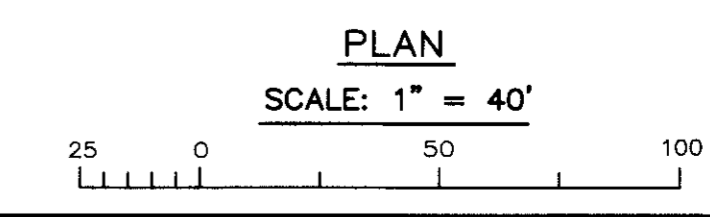
PROJECT ENGINEER 7/26/18 DATE

PS007715

REVIEWED BY LAND DEVELOPMENT DIVISION

NO. REVISION REVISED BY APPROVED BY DATE

BY *Burton Tadele* SUBDIVISION PLAN CHECKING SECTION DATE



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