

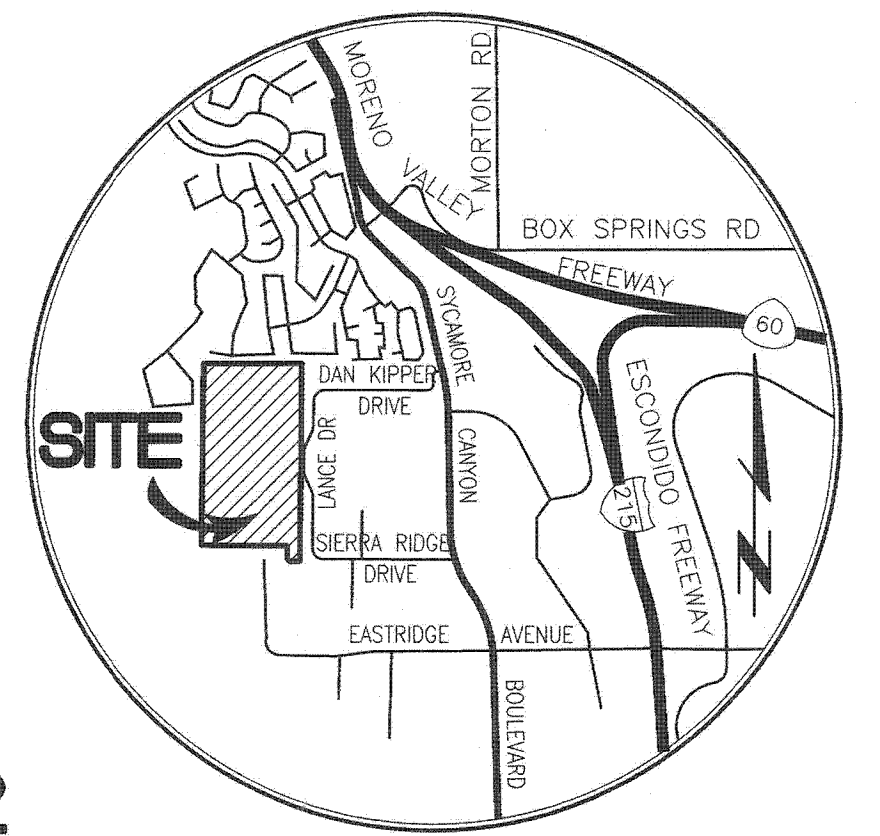
SEWER IMPROVEMENT PLANS

FOR SYCAMORE CANYON BLDG. 1 AND 2

PARCEL MAP NO. 36879,

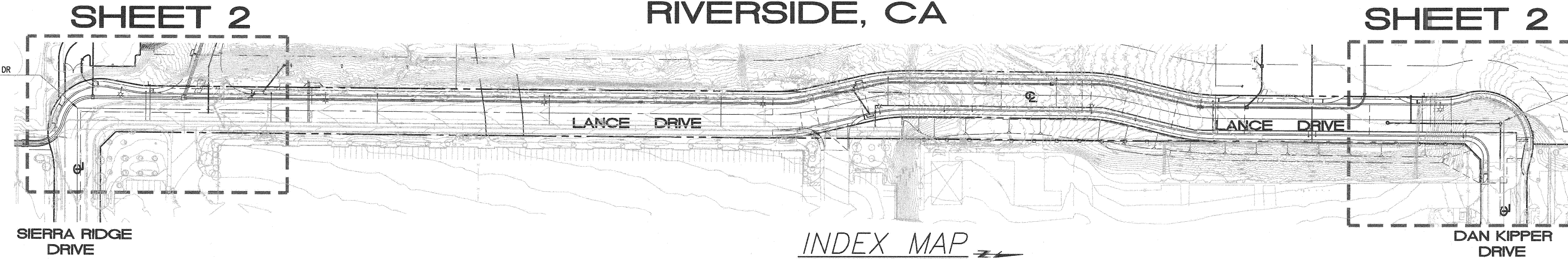
LANCE DRIVE

RIVERSIDE, CA



VICINITY MAP
N.T.S.

STA. 32+89.21 LANCE DRIVE
CONTINUES INTO DAN KIPPER DRIVE



INDEX MAP
SCALE 1"=100'

GENERAL NOTES:

- NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
- QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
- SEE "STREET LIGHTING PLANS" FOR QUANTITY AND LOCATION OF REQUIRED STREET LIGHTS.
- ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
- WHERE NEW PAVEMENT IS TO JOIN THE EXISTING PAVEMENT, THE EDGE OF THE EXISTING PAVEMENT SHALL BE TRIMMED IN A SMOOTH AND STRAIGHT LINE. CONSTRUCT MATCH-UP PAVING AS SHOWN ON THE PLANS AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
- CONSTRUCT DRIVEWAY APPROACHES PER STANDARD DRAWING 302. EXACT SIZE AND LOCATION TO BE STAKED BY THE PRIVATE ENGINEER PRIOR TO CONSTRUCTION OF THE CURB AND GUTTER.
- THE DEVELOPER AND/OR CONTRACTOR SHALL CONTACT THE STREET DIVISION (351-6103) TO PICK UP ANY EXISTING STD. 180 BARRICADES THAT ARE BEING REMOVED. THE CITY'S INSPECTOR WILL MAKE THE FINAL DETERMINATION ON WHETHER A BARRICADE CAN BE RELOCATED.
- ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.
- FINAL STRIPING FOR TRAFFIC CONTROL AND/OR PAVEMENT MARKING TO BE THE RESPONSIBILITY OF THE DEVELOPER.
- THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE # 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
- IN PAVEMENT OVERLAY AREAS, ANY DISTRESSED EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE INSPECTOR PRIOR TO OVERLAYING WITH A.C. PAVING.
- THE CONTRACTOR SHALL COORDINATE TRENCHING FOR CABLE TELEVISION WITH OTHER TRENCHING WITHIN THE SUBDIVISION.
- SEE TRAFFIC SIGNAL PLAN #X-4998 FOR SIGNAL IMPROVEMENTS.
- STREET OPENING PERMIT FOR CONSTRUCTION AND/OR MODIFICATION OF TRAFFIC SIGNAL FACILITIES IS REQUIRED.
- THE DEVELOPER AND/OR CONTRACTOR SHALL ARRANGE FOR A SOIL TEST TO BE MADE BY A SOILS ENGINEER AFTER THE STREET HAVE BEEN PREPARED TO ROUGH GRADE AND PRIOR TO CURB AND GUTTER CONSTRUCTION. DEPTH OF BASE MATERIAL AND A.C. PAVING SHALL BE DETERMINED BY THE CITY OF RIVERSIDE DESIGN STANDARDS AND TEST PROCEDURES.
- ON ALL AREAS WITHIN PUBLIC RIGHT OF WAY WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FROM THE SOILS ENGINEER, CERTIFYING THE COMPACTION OF THE FILL BELOW SUB GRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
- ALL TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO OPENING THE STREETS TO TRAFFIC.

LIABILITY FOR UNDERGROUND STRUCTURES

ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. WHILE DUE CARE WAS TAKEN IN PREPARATION OF THIS INFORMATION, THE ENGINEER CANNOT AND DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE INFORMATION.

IT SHALL BE THE RESPONSIBILITY AND LIABILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE OR NON-EXISTENCE OF SUCH UTILITIES AND TO PROTECT THEM IN PLACE. THE REPRESENTATIVES OF THE VARIOUS UTILITY COMPANIES WILL COOPERATE WITH THE CONTRACTOR IN LOCATING EXISTING UTILITIES.

IN THE EVENT UNKNOWN UTILITIES OR UNKNOWN STRUCTURES ARE FOUND, OR KNOWN FACILITIES ARE FOUND DURING CONSTRUCTION AT UNEXPECTED ELEVATIONS OR LOCATIONS, THE ENGINEER IS TO BE NOTIFIED OF SUCH CONDITIONS AT ONCE. THE ENGINEER WILL MAKE ANY REQUIRED DESIGN CHANGES AND THE CONTRACTOR AGREES TO COMPLETE ANY EXTRA WORK INCLUDING REPAIRS REQUIRED IN AN EXPEDITIOUS MANNER. REIMBURSEMENT FOR THIS EXTRA WORK WILL EQUAL THE CONTRACTOR'S COST PLUS 20%. THE CONTRACTOR FURTHER AGREES TO DILIGENTLY PURSUE THE COMPLETION OF SAID EXTRA WORK.

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSON AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

UNAUTHORIZED CHANGES & USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, NOR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

SEWER CONSTRUCTION NOTES:

QTY	DESCRIPTION
221 LF	1-INSTALL 8" VCP SEWER LINE PER CITY OF RIVERSIDE STD DWG 453
85 LF	2-INSTALL 6" SEWER LATERAL WITH CLEANOUT AT P/L PER CITY OF RIVERSIDE STD DWG 562 AND TRENCH BACKFILL STD DWG 453
2 EA	3-INSTALL 4' DIAMETER SEWER MANHOLE PER CITY OF RIVERSIDE STD DWG. 500
3 EA	4-ADJUST EXISTING MANHOLE TO GRADE PER CITY STANDARDS
4 LF	5-REMOVE EXISTING 8" VCP SEWER STUB AND CONNECT NEW PIPE TO EXISTING MANHOLE. MODIFY EXISTING SHELF AS NEEDED
73 LF	6-CONSTRUCT SEWER PIPE ENCASEMENT PER CITY STD DWG 564

ABBREVIATIONS:

A.B.	—AGGREGATE BASE	L.S.	—LANDSCAPING
A.C.	—ASPHALT CONCRETE	L.P.	—LOW POINT
ARCH.	—ARCHITECTURAL	M.H.	—MANHOLE
B.C.R.	—BEGIN OF CURB RETURN	N.G.	—NATURAL GRADE
B.W.	—BACK OF WALK	P.V.C.	—POLYVINYLCHLORIDE
B.O.P.	—BOTTOM OF PIPE	P.P.	—POWER POLE
B.O.W.	—BOTTOM OF WALL	PK	—PROPERTY LINE
BLDG	—BUILDING	PKWY DRAIN	—PARKWAY DRAIN
C.L.F.	—CHAIN LINK FENCE	R/W	—RIGHT OF WAY
C.I.P.	—CAST IRON PIPE	R	—RATE OF GRADE
C.B.	—CATCH BASIN	R.D.	—ROOF DRAIN
C	—CENTERLINE	R.C.P.	—REINFORCED CONCRETE PIPE
C.M.B.	—CRUSHED MISC. BASE	ST.LT.	—STREET LIGHT
C.L.F.	—CHAIN LINK FENCE	S =	—SLOPE
CONC.	—CONCRETE	S.D.	—STORM DRAIN
E.C.R.	—END OF CURB RETURN	S.F.	—SQUARE FEET
(0.00)	—EXISTING ELEVATION	SPPWC-	—STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
E.P.	—EDGE OF PAVEMENT	S.W.	—STEM WALL
EXIST.	—EXISTING	T.C.	—TOP OF CURB
F.H.	—FIRE HYDRANT	T.S.	—TOP OF CONCRETE SLAB
F.G.	—FINISH GRADE	T.O.P.	—TOP OF PIPE
F.S.	—FINISH SURFACE	T.F.	—TOP OF FOOTING
F.F.	—FINISH FLOOR	T.W.	—TOP OF WALL
F.L.	—FLOW LINE	T.R.	—TOP OF RAIL
G.B.	—GRADE BREAK	T.G.	—TOP OF GRATE
H.C.	—HANDICAP	TOP	—TOP OF SLOPE
H	—HEIGHT OF RETAINING	TOE	—TOE OF SLOPE
H.P.	—HIGH POINT	T.B.	—TOP OF BERM
INV.	—INVERT	TRANS PAD	—TRANSFORMER PAD

LEGEND

⊙ _{FH}	EXIST. FIRE HYDRANT	---	EXIST. CABLE TV CONDUIT
⊙ _{WM}	EXIST. WATER METER	---	EXIST. EDGE OF A.C. PAVEMENT
⊙ _{WV}	EXIST. WATER VALVE	---	EXIST. CURB AND GUTTER
⊙ _{GAS V.}	EXIST. GAS VALVE	---	EXIST. SANITARY SEWER
---	GUY WIRE/DEADMAN	---	EXIST. STORM DRAIN
⊙ _{PP}	EXIST. POWER POLE	---	EXIST. GAS LINE
+	EXIST. TRAFFIC SIGNAL	---	EXIST. TELEPHONE CONDUIT
⊙ _{CS}	EXIST. CROSSWALK SIGNAL	---	EXIST. WATER LINE
⊙ _{SLB}	STREET LIGHTING BOX	---	EXIST. CONTOUR
⊙ _{STL}	EXIST. STREET LIGHT	---	NEW PIPE LINE
⊙ _{SDMH}	EXIST. STORMDRAIN MANHOLE	---	PROPERTY LINE
⊙ _{SMH}	EXIST. SEWER MANHOLE	⊙	NEW FIRE HYDRANT
⊙ _{VAL}	EXIST. VAULT	⊙	NEW WATER METER
⊙	EXIST. SIGN	⊙	NEW BACKFLOW PREVENTER
⊙	TREE	⊙	NEW WATER VALVE
⊙ _{TSB}	EXIST. TRAFFIC SIGNAL BOX	⊙	NEW THRUST BLOCK
⊙ _{GM}	EXIST. GAS METER	⊙	NEW SEWER MANHOLE
⊙ _{MB}	EXIST. MAIL BOX	⊙	NEW SEWER CLEAN OUT
⊙ _{THM}	EXIST. TELEPHONE MANHOLE	⊙	NEW COATCH BASIN
X 1854.68	EXIST. GRADE ELEVATION	⊙	CONSTRUCTION NOTES BUBBLE
⊙	DAYLIGHT LINE	⊙	PROPOSED CONTOUR
⊙	FIRE RISER	⊙	CURB OPENING CATCH-BASIN

INDEX TO SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	8" SEWER PLAN AND PROFILE
3	SIERRA RIDGE DR. TO STA. 19+00.00

REVIEWED BY:
WESTERN MUNICIPAL WATER DISTRICT
FOR NON-INTERFERENCE COMPLIANCE
SHEET 1 THROUGH 2

Debra Rasmussen 05-30-2018
APPROVED DATE

CITY OF RIVERSIDE - ELECTRICAL DEPARTMENT

John Smith 5/17/18
APPROVED DATE

CITY OF RIVERSIDE - WATER DEPARTMENT

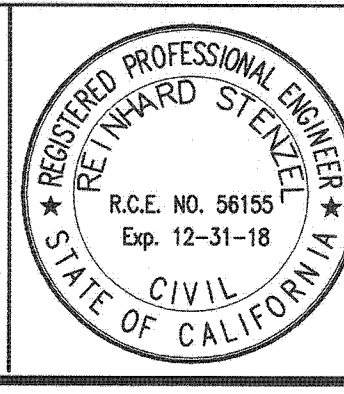
Chris Johnson 5/16/18
APPROVED DATE

BUSINESS TAX CERTIFICATE NO. 0041318
EXP. DATE: 09-30-2018



PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.



PREPARED UNDER THE DIRECTION OF

Renhard Stenzel 5/14/18
DATE

RENHARD STENZEL
R.C.E. 056155 - EXP. 12/31/18

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14348 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90639
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CITY OF RIVERSIDE BENCHMARK NO. 21-A3*
P.K. NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT POLE ALONG THE NORTHERLY CURB OF EASTRIDGE AVENUE, 82 FEET WESTERLY OF BOX SPRINGS BOULEVARD.
ELEVATION = 1534.311' (MGD '28 / 1971 ADJ.)

1" = 40'
DATE: NOVEMBER, 2017

MARK	REVISIONS	APPR.	DATE

DESIGNED BY MSR DRAWN BY GP CHECKED BY RS

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *[Signature]* DATE: 06/12/2018

ENGINEERING MANAGER: *[Signature]*
TRAFFIC DIVISION: *[Signature]*
CONSTRUCTION MGMT: *[Signature]*
PRINCIPAL ENGINEER: T.N. B. DATE: 06/12/2018

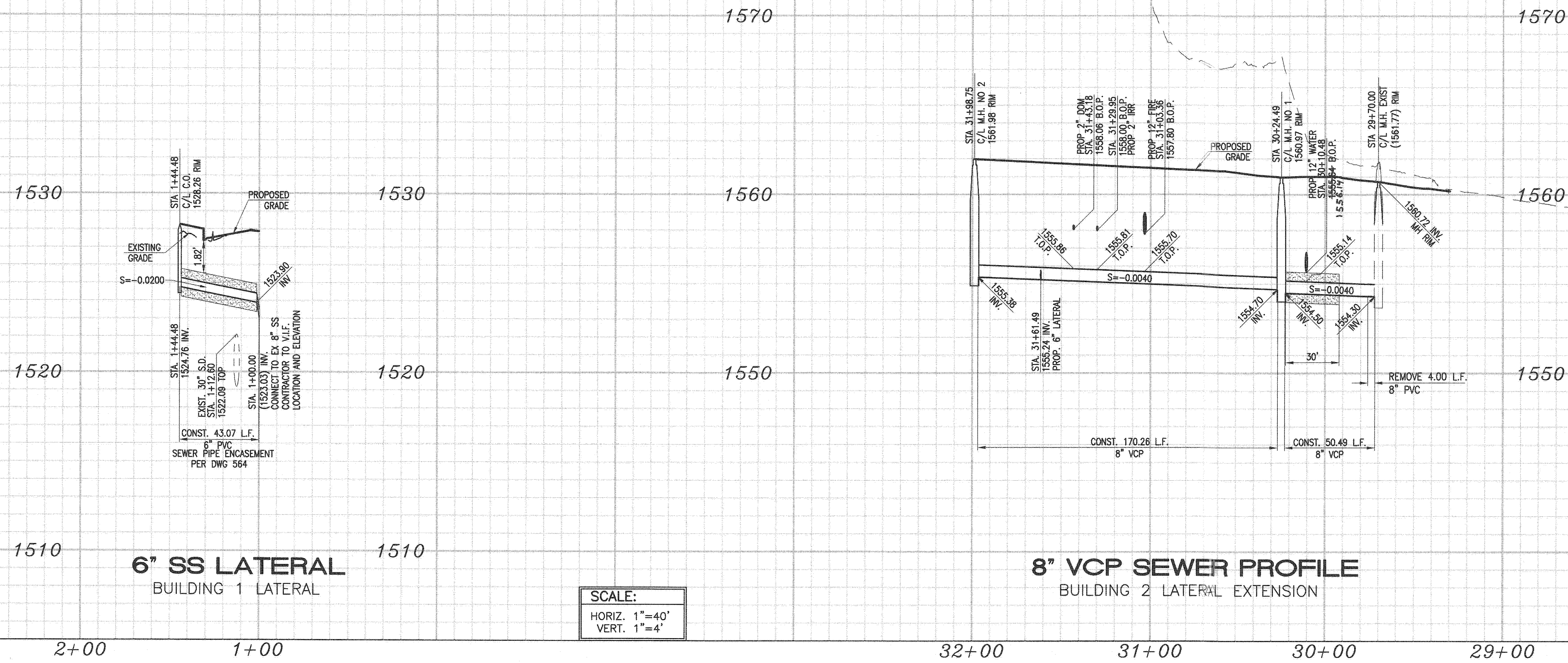
SEWER IMP PLANS
TITLE SHEET
GENERAL NOTES
PM 36879

HORIZONTAL SCALE: AS NOTED VERTICAL SCALE: N/A

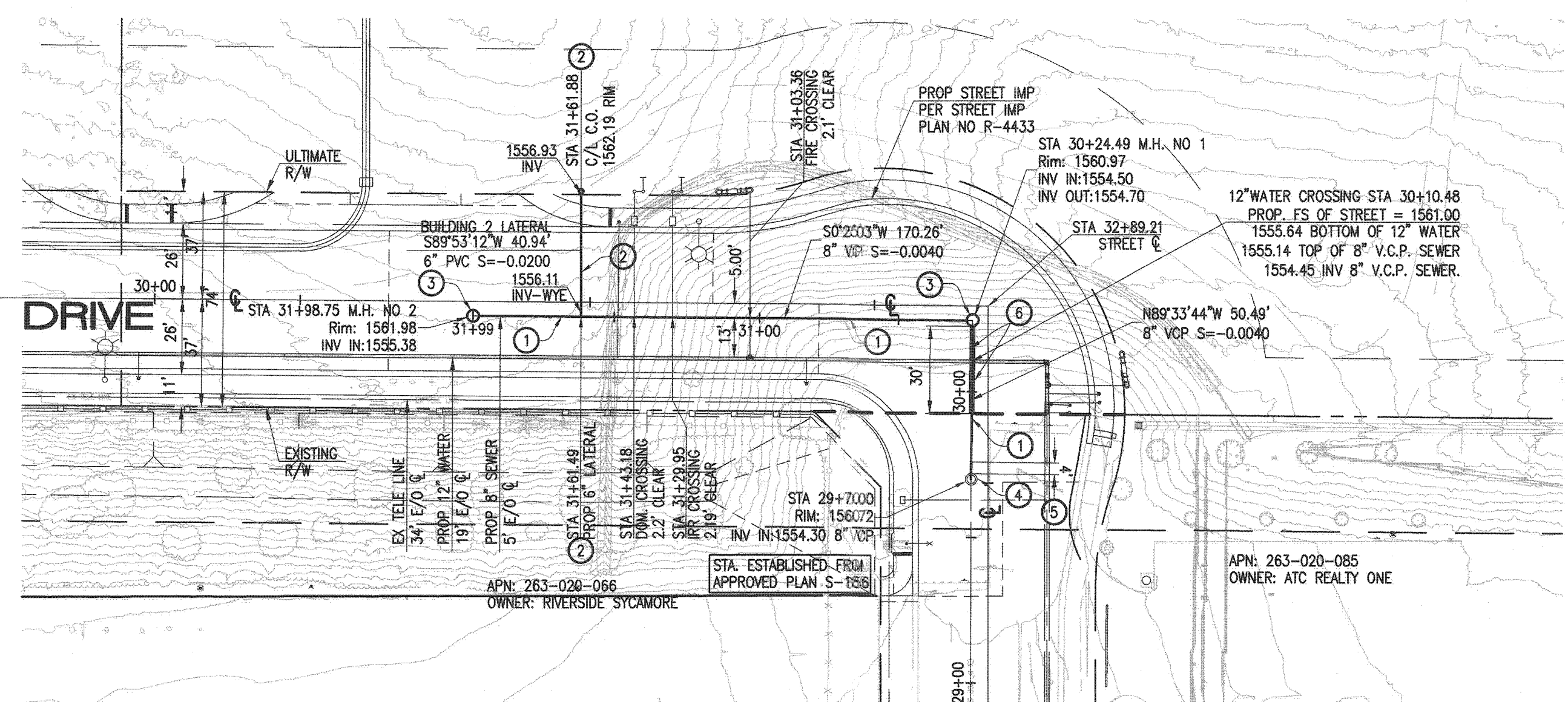
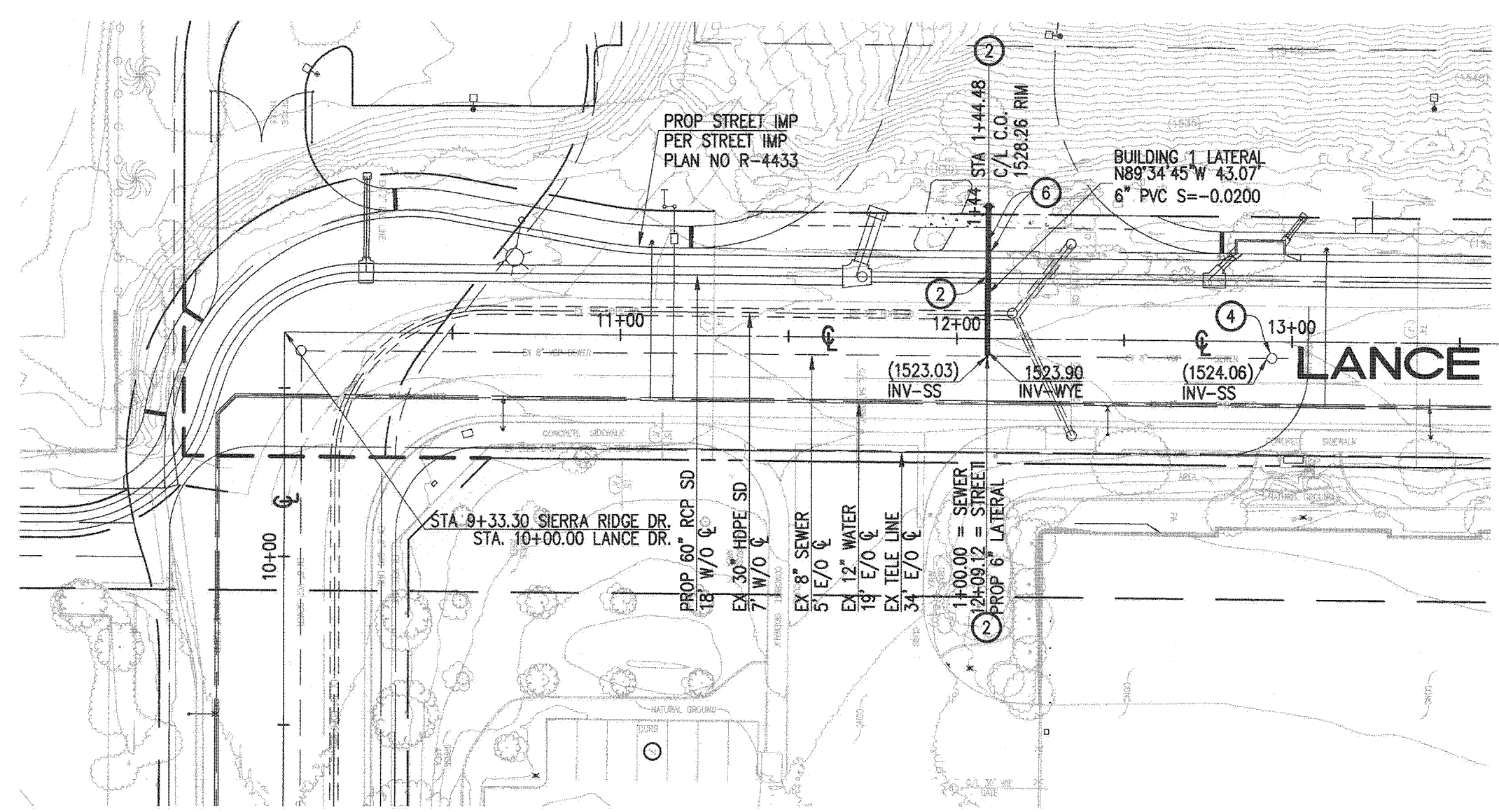
PROJ. NO. PW 17-0881

S-2161

SHEET 1 OF 2

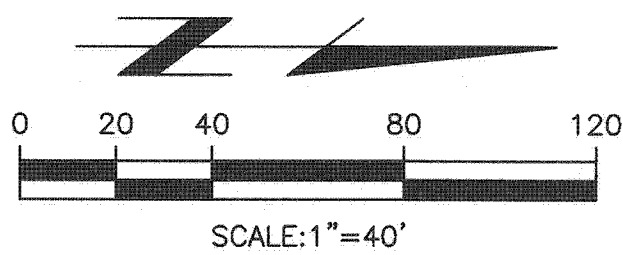


SCALE:
 HORIZ. 1"=40'
 VERT. 1"=4'



SEWER CONSTRUCTION NOTES:

- 1) INSTALL 8" VCP SEWER LINE PER CITY OF RIVERSIDE STD DWG 453
- 2) INSTALL 8" SEWER LATERAL WITH CLEANOUT AT P/L PER CITY OF RIVERSIDE STD DWG 562 AND TRENCH BACKFILL STD DWG 453
- 3) INSTALL 4" DIAMETER SEWER MANHOLE PER CITY OF RIVERSIDE STD DWG. 500
- 4) ADJUST EXISTING MANHOLE TO GRADE PER CITY STANDARDS
- 5) REMOVE EXISTING 8" VCP SEWER STUB AND CONNECT NEW PIPE TO EXISTING MANHOLE. MODIFY EXISTING SHELF AS NEEDED
- 6) CONSTRUCT SEWER PIPE ENCASUREMENT PER CITY STD DWG 564



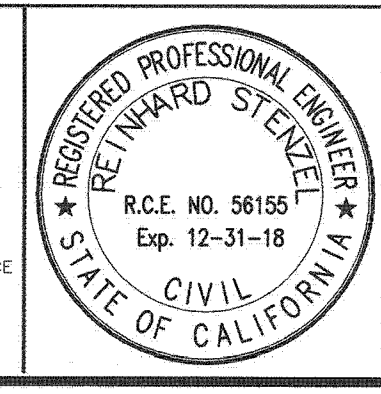
REVIEWED BY:
 WESTERN MUNICIPAL WATER DISTRICT
 FOR NON-INTERFERENCE COMPLIANCE
 SHEET 1 THROUGH 2

CITY OF RIVERSIDE - ELECTRICAL DEPARTMENT
 APPROVED: *[Signature]* DATE: 5/13/18

CITY OF RIVERSIDE - WATER DEPARTMENT
 APPROVED: *[Signature]* DATE: 5/16/18



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PREPARED UNDER THE DIRECTION OF
[Signature] DATE: 5/14/18
 RENWARD STENZEL
 R.C.E. 056155 - EXP. 12/31/18

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 ELEVATION = 1534.311' (NGVD '29 / 1971 ADA)

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *[Signature]* BY: *[Signature]* DATE: 06/12/2018

ENGINEERING MANAGER
 TRAFFIC DIVISION
 CONSTRUCTION MGMT
 PRINCIPAL ENGINEER

DESIGNED BY MSR DRAWN BY GP CHECKED BY RS

SEWER IMP PLANS
 PLAN AND PROFILE
 PM 36879

PROJ. NO. PW 17-0881
S-2161
 SHEET 2 OF 2

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