

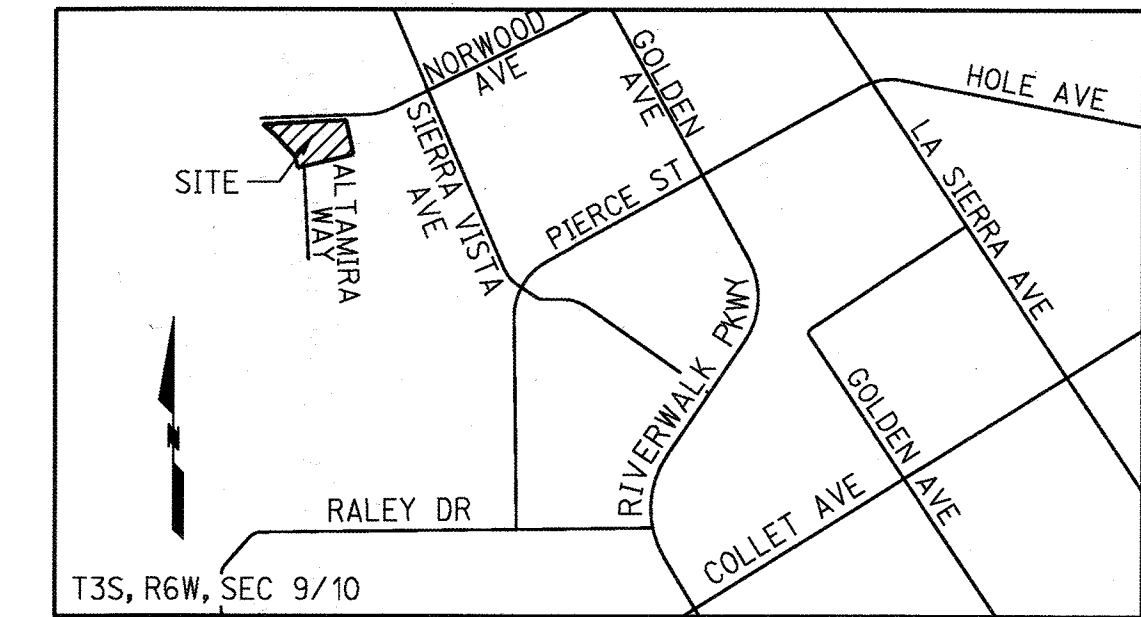
GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. THE CONTRACTOR SHALL CONTACT THE PUBLIC WORKS DEPARTMENT 30 DAYS PRIOR TO BEGINNING CONSTRUCTION TO NEGOTIATE THE COST OF THE CITY'S PORTION OF THE WORK.
6. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
7. 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.
8. 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.
9. THE SUBDIVIDER SHALL ARRANGE FOR A SOIL TEST TO BE MADE BY A SOILS ENGINEER AFTER THE STREETS 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.
10. ALL OVERHANGING TREE LIMBS THAT ARE LESS THAN 14' ABOVE THE STREET GRADE SHALL BE TRIMMED BACK.
11. THE CONTRACTOR SHALL CONTACT THE STREET DIVISION (351-6127) TO PICK UP ANY EXISTING BARRICADES THAT ARE BEING REMOVED. THE CITY'S INSPECTOR WILL MAKE THE FINAL DETERMINATION ON WHETHER A BARRICADE CAN BE RELOCATED.
12. 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 SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
13. ALL TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO OPENING THE STREETS TO TRAFFIC.
14. 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.
15. 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.
16. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
17. 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.

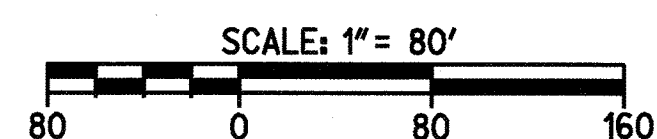
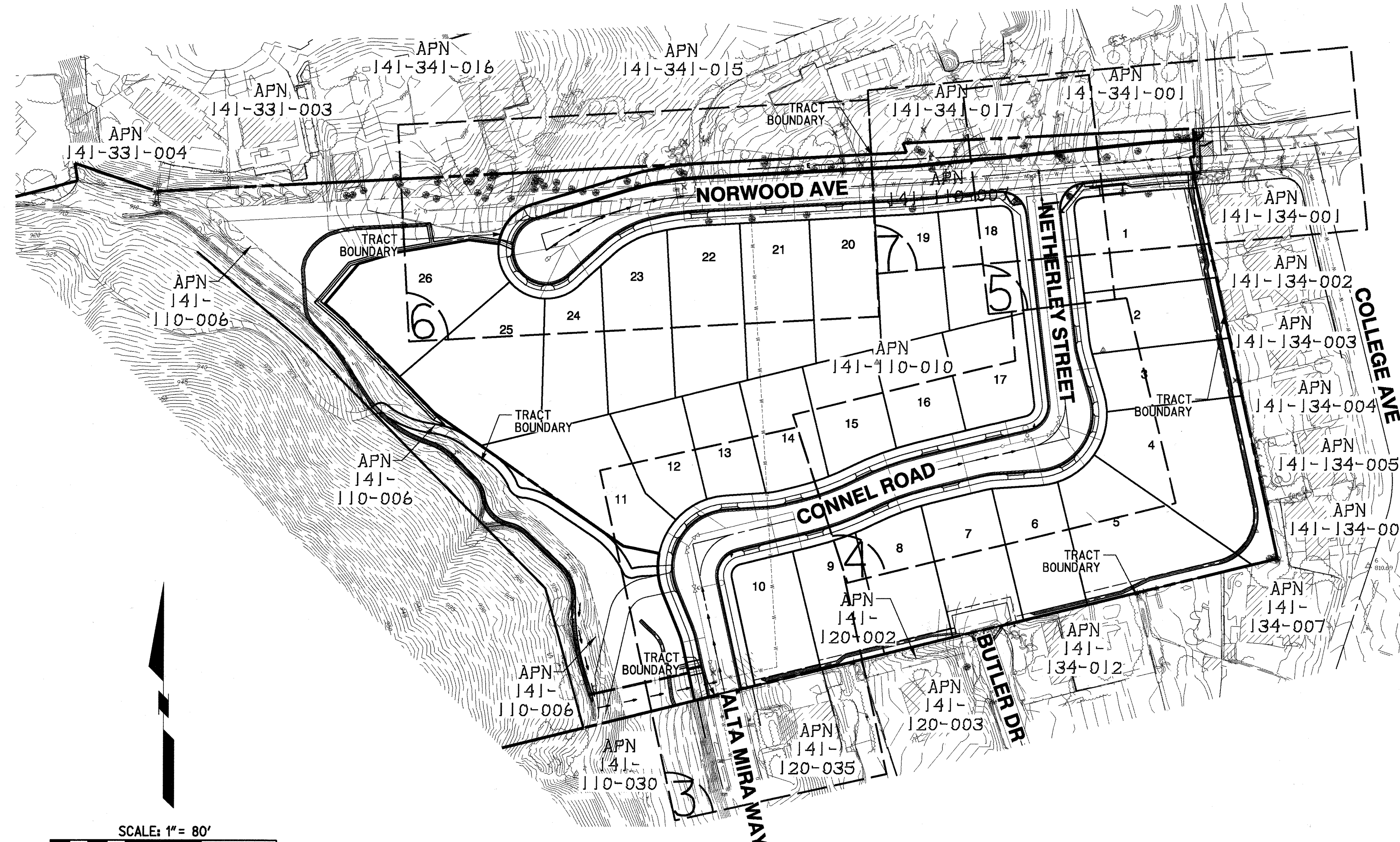
NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES (UTILITY PIPES, STRUCTURES, ETC.) SHOWN ON THESE PLANS (MAIN LINES ONLY - NO SERVICE LATERALS) WERE ASCERTAINED BY A REVIEW OF RECORDS PROVIDED BY THESE MEMBER AGENCIES AND ARE APPROXIMATE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. LOCATIONS OF UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. CALL UNDERGROUND SERVICE ALERT (U.S.A.) 811 AT LEAST 2 WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

IN THE CITY OF RIVERSIDE, CALIFORNIA
STREET IMPROVEMENT PLAN
 RIVERSIDE 26



VICINITY MAP
N.T.S.



INDEX MAP
SCALE: 1"=80'

LEGEND

- EXISTING STORM DRAIN -SD-
- EXISTING SEWER -S-
- EXISTING WATER -W-
- CONTOUR (EXISTING) -216-
- CONTOUR (PROPOSED) -220-
- TRACT BOUNDARY - - -
- CENTERLINE - - -
- EXISTING TREES [Symbol]
- EXISTING BUILDING [Symbol]
- EXISTING FENCES [Symbol]

WORK TO BE DONE

THESE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT CITY OF RIVERSIDE STANDARDS AND SPECIFICATIONS, THE CURRENT CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT WATER DIVISION STANDARDS AND SPECIFICATIONS, AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK").

PRIVATE ENGINEER'S NOTE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS. THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTOR'S AND SUBCONTRACTOR'S COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER 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 PERSONS 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 OWNER AND CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HERE ON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES.

ENGINEER'S NOTES

PRIVATE ENGINEER WILL NOT BE PROVIDING INSPECTION SERVICES OR CONSTRUCTION REVIEW. THESE FUNCTIONS ARE THE RESPONSIBILITY OF THE CITY AND/OR THE GENERAL CONTRACTOR. ENGINEER ACCEPTS NO LIABILITY FOR SUCH FUNCTIONS OR WORK THEREOF.

OWNER/DEVELOPER

FRONTIER ENTERPRISES
8300 UTICA AVENUE, SUITE 300
RANCHO CUCAMONGA, CA 91730
ATTN: JIM PREVITI
(909) 354-8000

CIVIL ENGINEER

RICK ENGINEERING COMPANY
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
ATTN: RICHARD CARL O'NEILL
(951) 782-0707

GEOTECHNICAL ENGINEER

GEOTEK, INC.
710 EAST PARKRIDGE AVENUE, SUITE 105
CORONA, CA 92879-1097

ABBREVIATIONS

- FLOW LINE ELEVATION..... FL
- FINISHED SURFACE ELEVATION..... FS
- GRADE BREAK..... GB
- HIGH POINT..... HP
- LOW POINT..... LP
- TOP OF CURB ELEVATION..... TC
- CURB AND GUTTER..... C&G

SHEET INDEX

TITLE SHEET	1
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STREET PLAN AND PROFILE	3-7
MODULAR WETLAND DETAIL SHEET	8

CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT OVERHEAD & UNDERGROUND APPROVED BY: _____ DATE: 10/19/17	CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT WATER DIVISION APPROVED BY: _____ VOID ONE YEAR FROM THIS DATE 8 DATE: 10/19/2017
---	---

811
Know what's below.
Call before you dig.
Call at least 2 working days prior to excavating.

PREPARED UNDER THE DIRECTION OF

 RICHARD CARL O'NEILL
 REGISTERED CIVIL ENGINEER NO. 63285
 DATE: 10/17

RICK ENGINEERING COMPANY
 1770 IOWA AVENUE - SUITE 100
 RIVERSIDE, CA 92507
 951.782.0707
 (FAX) 951.782.0723
 CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 1/31/18
 BENCH MARK: CITY OF RIVERSIDE BM DESIGNATION CI-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. CORNER OF A CATCH BASIN ALONG THE W/LY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

DESIGNED BY	ROG	DRAWN BY	ROG	CHECKED BY	RCO
DATE		DATE		DATE	

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: _____
 PRINCIPAL ENGINEER
 CONST. CONTRACT ADMIN.
 SURVEYOR
 TRAFFIC DIVISION
 PARKS DEPARTMENT

STREET IMPROVEMENT PLAN
 TRACT 32476
 RIVERSIDE 26
TITLE SHEET
 SCALE: HORIZ: 1"=80' VERT: N/A
 PLOT DATE: 16-OCT-2017
PW17-0313
R-4412
 SHEET 1 OF 8
 FILE NO.

CONSTRUCTION LEGEND

PROPOSED CURB AND GUTTER	
PROPOSED SIDEWALK	
SAWCUT	
PROPOSED SIGN	
GRIND AND OVERLAY	
REMOVALS	
PROPOSED DRIVEWAY	

ABBREVIATIONS

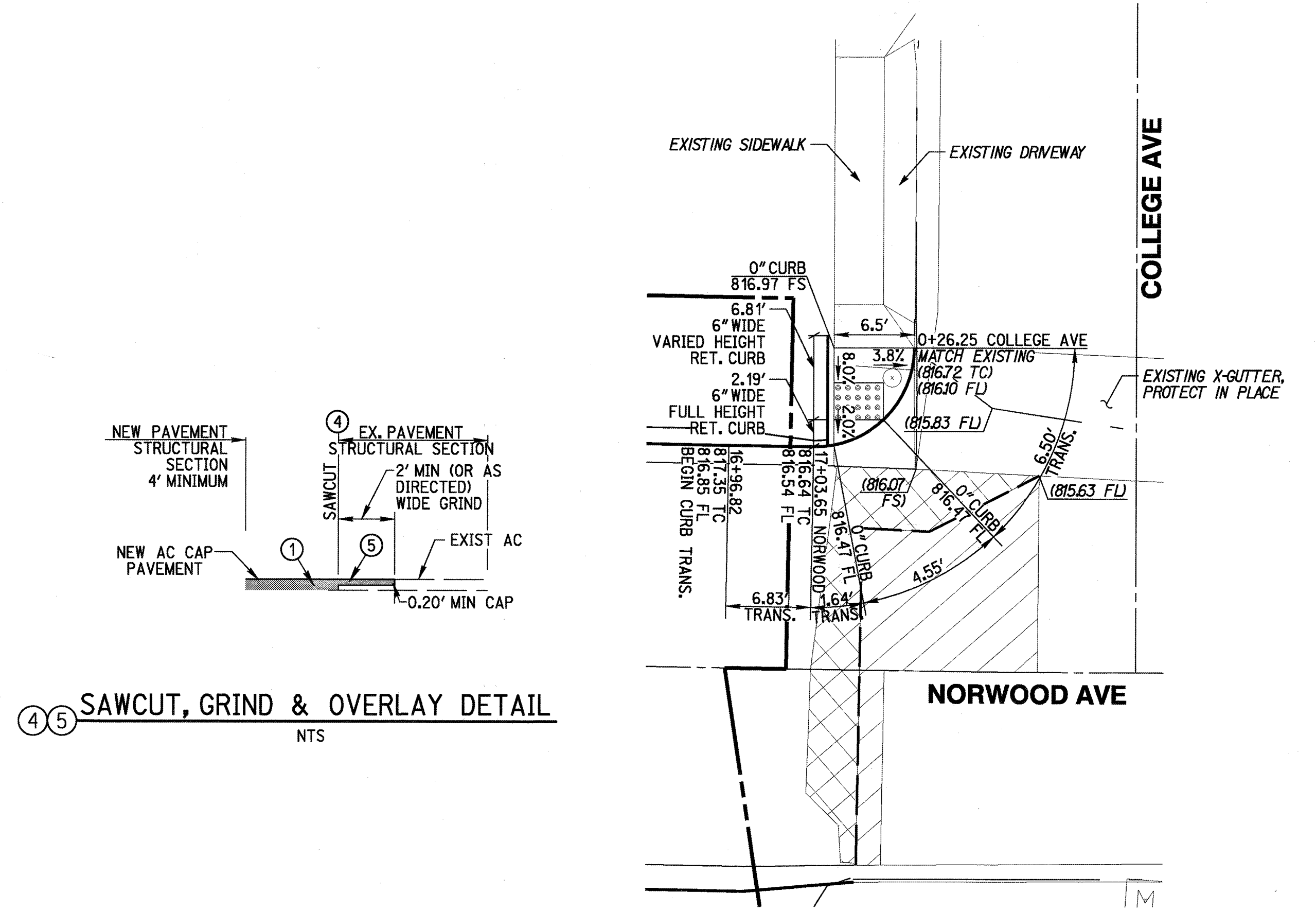
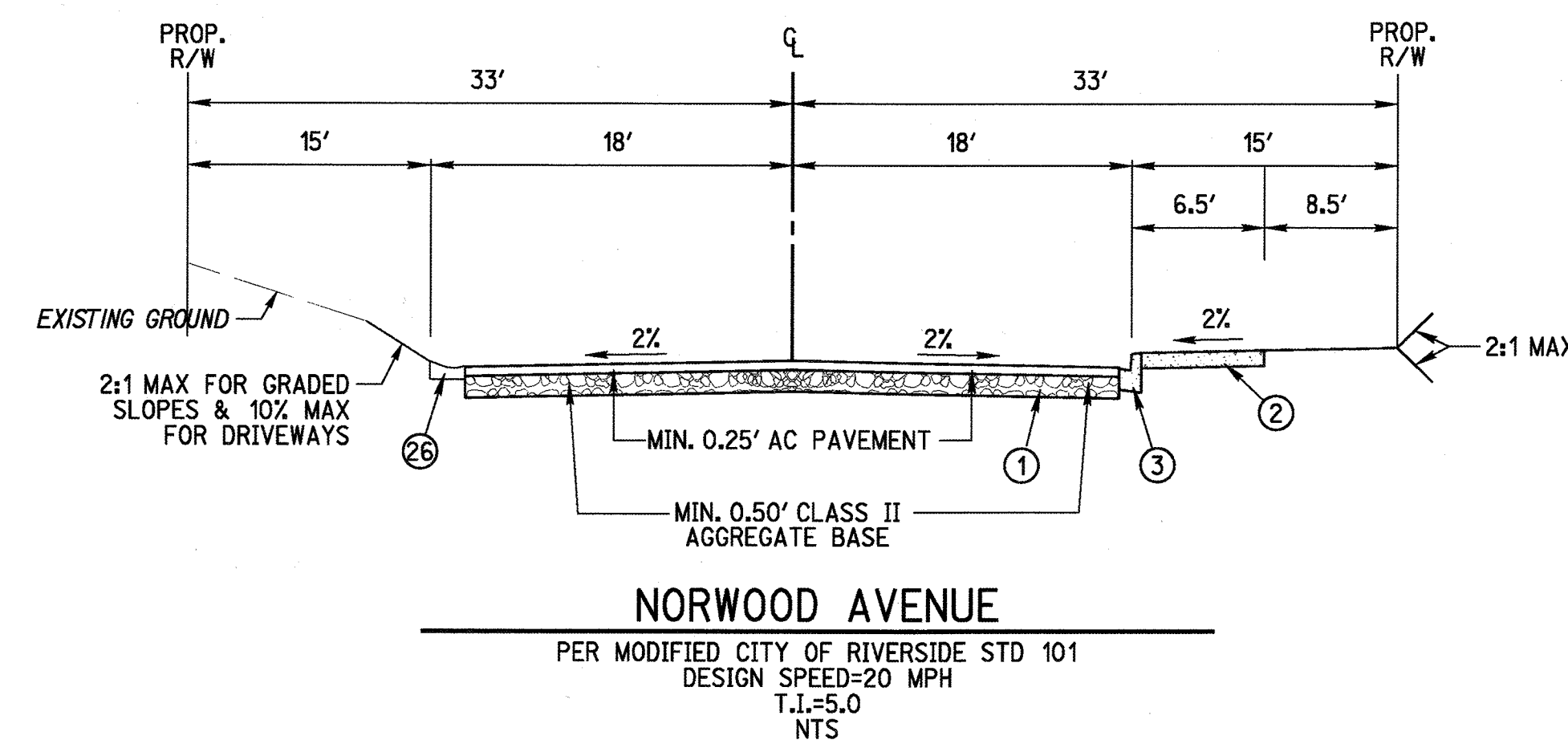
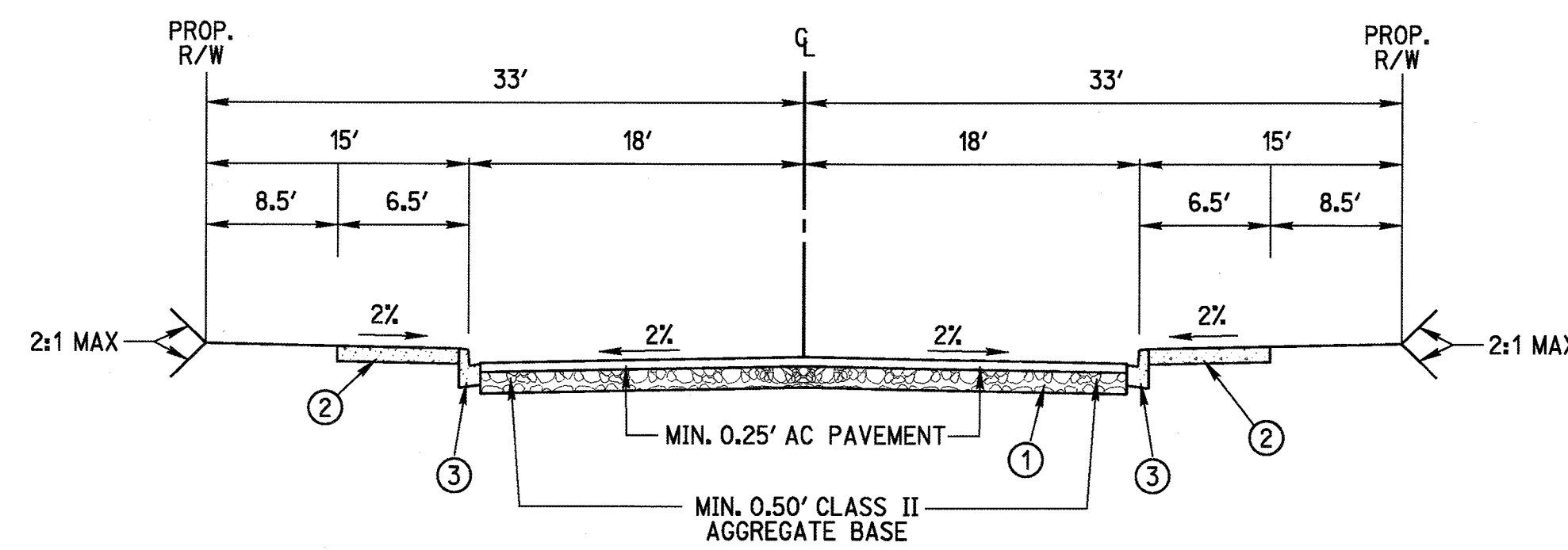
AGGREGATE BASE	AB
ASPHALT CONCRETE	AC
BEGIN CURB RETURN	BCR
BEGIN CURVE	BC
BEGIN VERTICAL CURVE	BVC
CURB & GUTTER	C&G
END CURB RETURN	ECR
END CURVE	EC
END VERTICAL CURVE	EVC
FINISHED GRADE ELEVATION	FG
FINISHED SURFACE ELEVATION	FS
FLOW LINE ELEVATION	FL
GRADE BREAK	GB
TOP OF CURB ELEVATION	TC
NOT TO SCALE	NTS
PROPOSED	PROP
RIGHT-OF-WAY	R/W

EXISTING TOPO LEGEND

EXISTING FENCE	
DIRECTION OF FLOW	
EXISTING SANITARY SEWER MANHOLE	
EXISTING STORM DRAIN MANHOLE	
EXISTING TELEPHONE VAULT	
EXISTING WATER METER	
EXISTING FIRE HYDRANT	
EXISTING POLE AND GUY ANCHOR	
EXISTING POWER POLE	
EXISTING TELEPHONE POLE	
EXISTING JOINT USE POLE	
EXISTING TRAFFIC SIGNAL PULL BOX	
EXISTING TRAFFIC SIGN	
EXISTING STREET NAME SIGN	
EXISTING GAS METER	
EXISTING WALK-DON'T WALK PED SIGNAL	
PED PUSH BUTTON	
EXISTING TRAFFIC SIGNAL	
EXISTING TRAFFIC SIGNAL ON MAST ARM	
EXISTING TRAFFIC SIGNAL CONTROLLER	
EXISTING TRAFFIC SIGNAL PRESSURE DETECTOR	
EXISTING TRAFFIC SIGNAL LOOP DETECTOR	
EXISTING STREET LIGHT	
EXISTING ASPHALT	
EXISTING CONCRETE	
EXISTING BUILDING	
EXISTING PCC CURB	
EXISTING PCC CURB AND GUTTER	
EXISTING WALL	

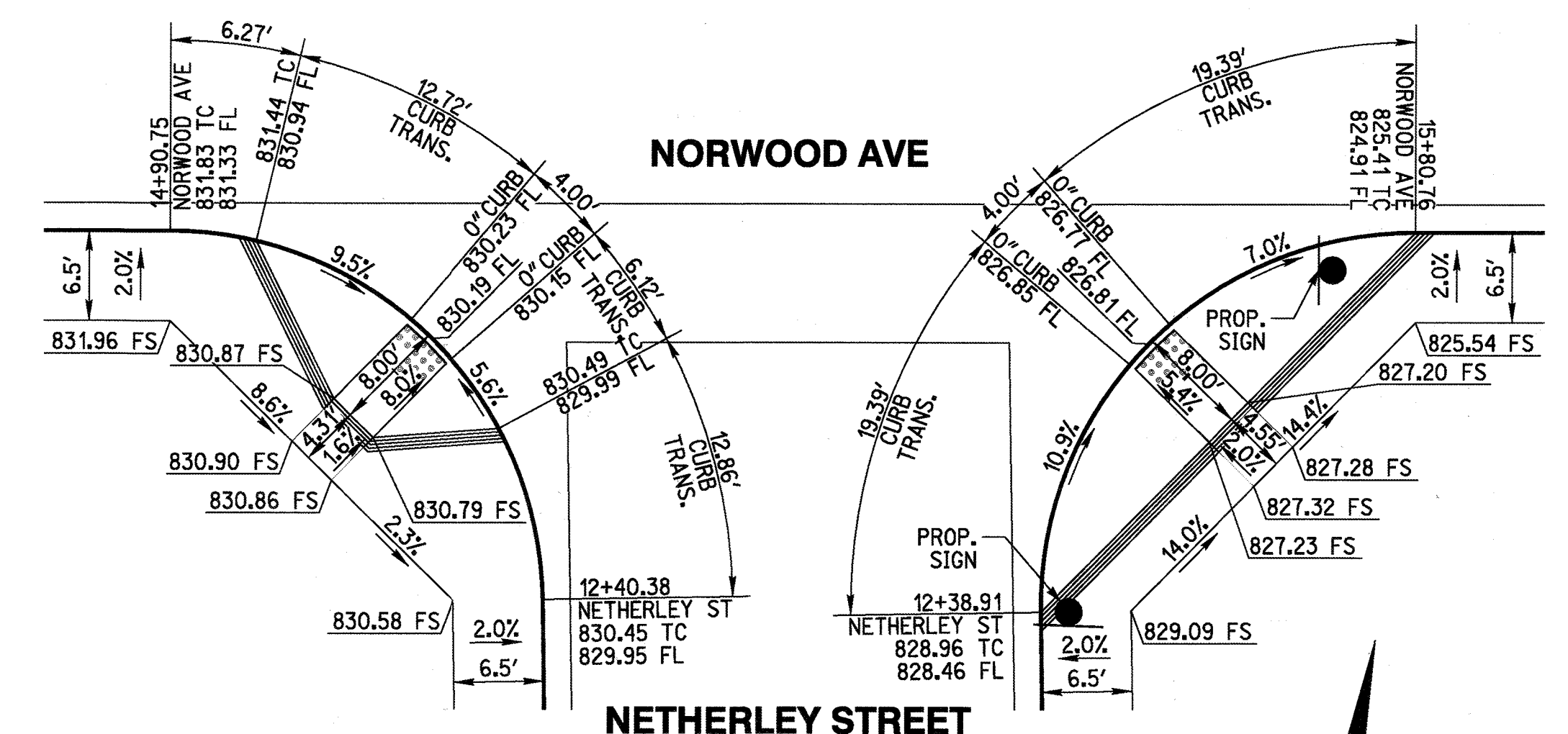
CONSTRUCTION NOTES AND QUANTITY ESTIMATES

1 PLACE 0.25' MIN. AC PAVEMENT OVER 0.5' MIN. CLASS II AGGREGATE BASE.	979 TONS
2 CONSTRUCT SIDEWALK (W=6.5') PER CITY OF RIVERSIDE STD 325	1,007 CY
3 CONSTRUCT 6" CURB AND GUTTER TYPE I PER CITY OF RIVERSIDE STD 200	15,929 SF
4 SAWCUT EXIST. A.C. PVMT. SEE TYPICAL JOIN DETAIL ON THIS SHEET.	2,450 LF
5 GRIND AND OVERLAY EXISTING PAVEMENT. SEE TYPICAL JOIN DETAIL ON THIS SHEET.	75 LF
6 REMOVE EXISTING PAVEMENT	279 SF
7 CONSTRUCT CURB RAMP PER CITY OF RIVERSIDE STD 304 TYPE I AND DETAILS ON THIS SHEET.	197 SF
8 CONSTRUCT CROSS GUTTER PER CITY OF RIVERSIDE STD 220	2 EA
9 PROTECT TELEPHONE PEDESTAL IN PLACE	1 EA
10 REMOVE BARRICADE	1 EA
11 CONSTRUCT DRIVEWAY APPROACH PER CITY OF RIVERSIDE STD 302 TYPE CURB-I	28 EA
12 INSTALL STOP SIGN PER CITY OF RIVERSIDE STD 664	1 EA
13 INSTALL STREET NAME SIGN PER CITY OF RIVERSIDE STD 662	3 EA
14 REMOVE EXISTING SIGN	1 EA
15 ADJUST TRAFFIC PULLBOX TO GRADE	1 EA
16 ADJUST SEWER MANHOLE TO GRADE PER SEWER PLAN	1 EA
17 INSTALL 4" THERMOPLASTIC WHITE LIMIT LINE MARKING	1 EA
18 INSTALL THERMOPLASTIC "STOP" PAVEMENT MARKING PER CA-MUTCD STANDARDS	1 EA
19 ADJUST WATER VALVE TO GRADE PER WATER PLAN	4 EA
20 PROTECT STOP SIGN IN PLACE	1 EA
21 CONSTRUCT PARKWAY DRAIN PER CITY OF RIVERSIDE STD 410	4 EA
22 REMOVE WATER VALVE PER WATER PLAN	2 EA
23 RELOCATE WATER METER PER WATER PLAN	2 EA
24 REMOVE FIRE HYDRANT PER WATER PLAN	1 EA
25 CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD 405	1 EA
26 CONSTRUCT ROLLED CURB TYPE C2 PER CITY OF RIVERSIDE STD 200	708 LF
27 CONSTRUCT CURB RAMP PER CITY OF RIVERSIDE STD 304 TYPE III AND DETAILS ON THIS SHEET.	1 EA
28 INSTALL MODULAR WETLANDS STORMWATER BIOFILTRATION SYSTEM PER DETAILS ON SHEET 8.	1 EA
29 CONSTRUCT 6" PVC STORM DRAIN PIPE	12 LF
30 CONSTRUCT 4" PVC STORM DRAIN PIPE	68 LF
31 CONSTRUCT 6" CURB TYPE II PER CITY OF RIVERSIDE STD 200, EXTEND TO 18" DEPTH PER MODULAR WETLAND DETAIL ON SHEET 8.	32 LF



4 5 SAWCUT, GRIND & OVERLAY DETAIL
NTS

27 CURB RAMP DETAIL
SCALE: 1"=5'



7 CURB RAMP DETAIL
1"=10'

CAUTION:
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811
Know what's below.
Call before you dig.
Call at least 2 working days prior to excavating.

REGISTERED PROFESSIONAL ENGINEER
RICHARD CARL O'NEILL
No. 63285
Exp. 6-30-18
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
RICHARD CARL O'NEILL
REGISTERED CIVIL ENGINEER NO. 63285

RICK
ENGINEERING COMPANY
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
951.782.0707
951.782.0707
(FAX) 951.782.0723
CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/18
BENCH MARK: CITY OF RIVERSIDE BM DESIGNATION G1-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. CORNER OF A CATCH BASIN ALONG THE W. CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

DESIGNED BY	ROG	DRAWN BY	ROG	CHECKED BY	RCO
APPROVED BY	BY	DATE	APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	E.L.	10-10-17	CITY ENGINEER		
CONST. CONTRACT ADMIN.					
TRAFFIC DIVISION					
PARKS DEPARTMENT					

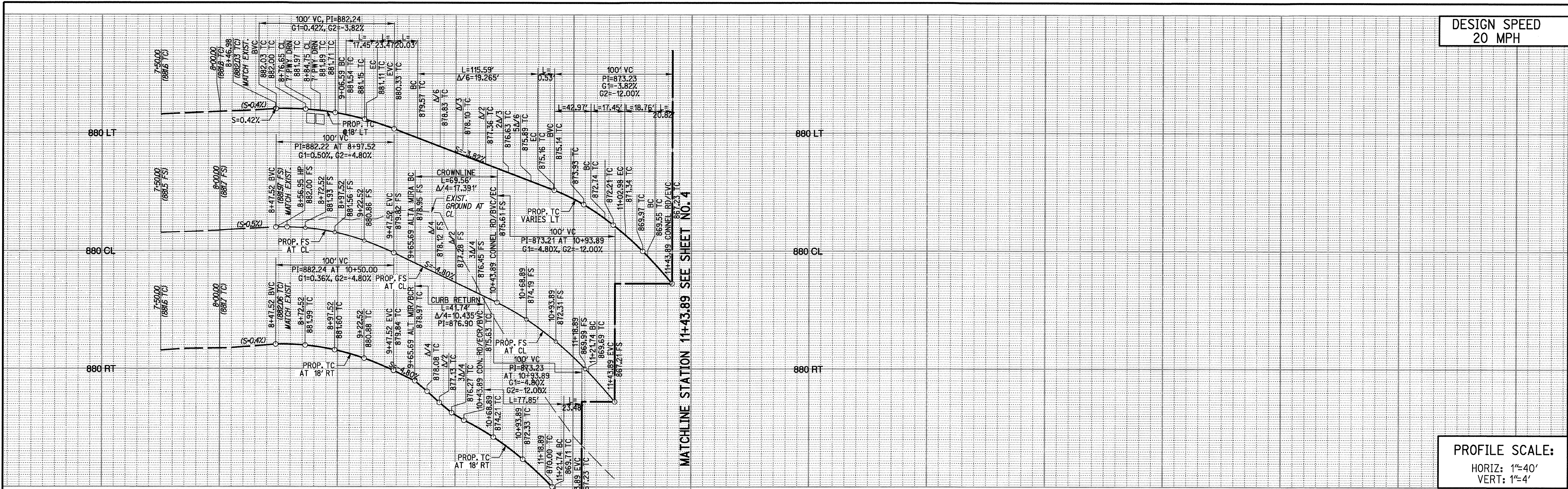
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

STREET IMPROVEMENT PLAN
TRACT 32476
RIVERSIDE 26
DETAIL SHEET
SCALE
HORIZ: N/A VERT: N/A
PLOT DATE: 16-OCT-2017 JUN 17973

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DESIGN SPEED
20 MPH

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

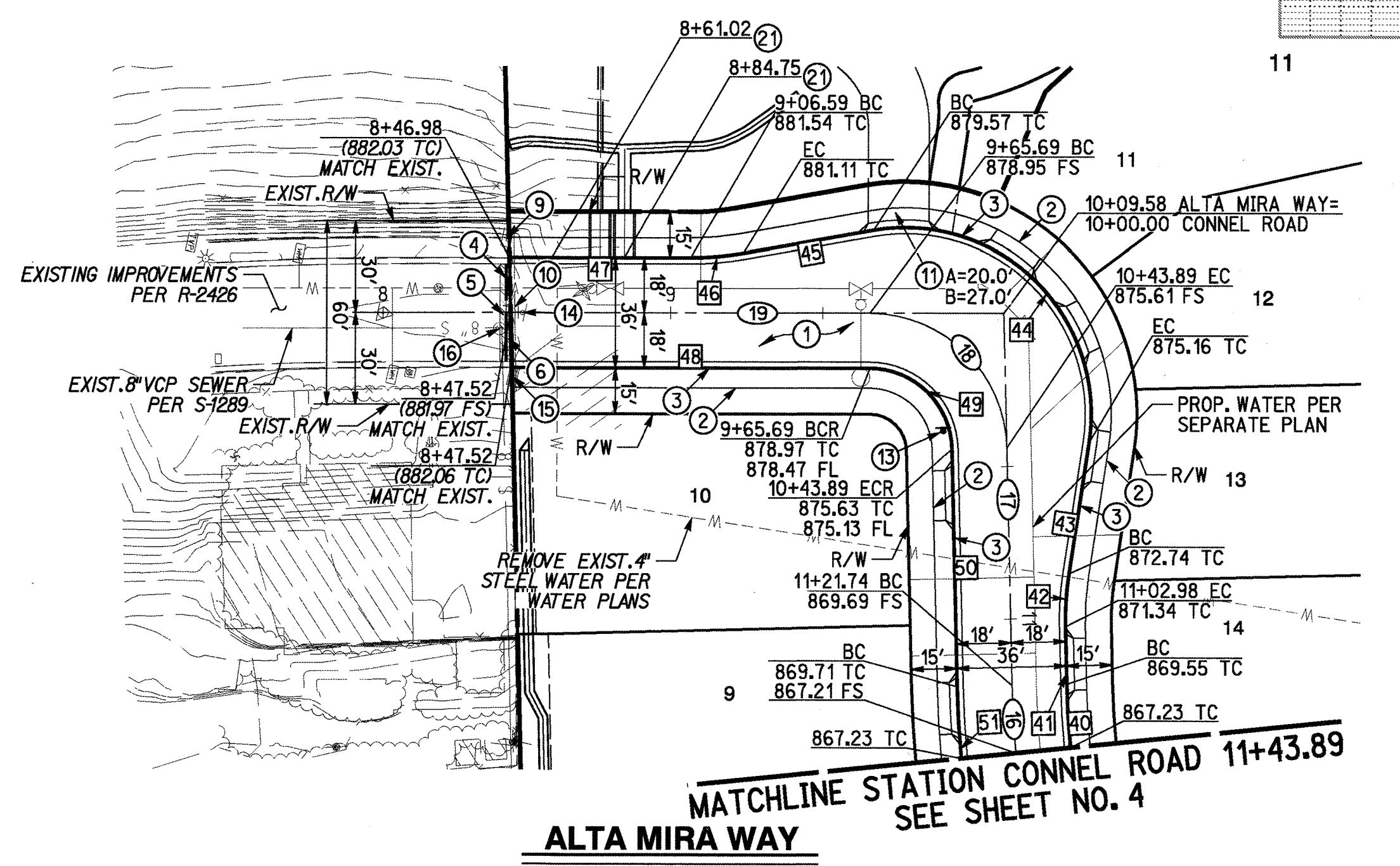


MATCHLINE STATION 11+43.89 SEE SHEET NO. 4

- CONSTRUCTION NOTES**
- ① PLACE 0.25" MIN. AC PAVEMENT OVER 0.5" MIN. CLASS II AGGREGATE BASE
 - ② CONSTRUCT SIDEWALK (W=6.5') PER CITY OF RIVERSIDE STD 325
 - ③ CONSTRUCT 6" CURB AND GUTTER TYPE I PER CITY OF RIVERSIDE STD 200
 - ④ SAWCUT EXIST. A.C. PAVT. SEE TYPICAL JOIN DETAIL ON THIS SHEET
 - ⑤ GRIND AND OVERLAY EXISTING PAVEMENT. SEE TYPICAL JOIN DETAIL ON SHEET 2
 - ⑥ REMOVE EXISTING PAVEMENT
 - ⑦ PROTECT TELEPHONE PEDESTAL IN PLACE
 - ⑧ REMOVE BARRICADE
 - ⑨ CONSTRUCT DRIVEWAY APPROACH PER CITY OF RIVERSIDE STD 302 TYPE CURB-I
 - ⑩ INSTALL STREET NAME SIGN PER CITY OF RIVERSIDE STD 662
 - ⑪ REMOVE EXISTING SIGN
 - ⑫ ADJUST TRAFFIC PULLBOX TO GRADE
 - ⑬ ADJUST SEWER MANHOLE TO GRADE PER SEWER PLAN
 - ⑭ CONSTRUCT PARKWAY DRAIN PER CITY OF RIVERSIDE STD 410

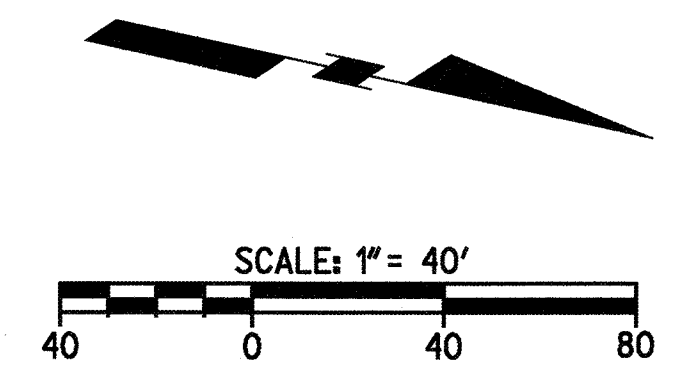
CURB DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	TANGENT
40	4°13'49"	282.00'	20.82'	10.42'
41	N 76°15'15" E		18.76'	
42	10°00'01"	100.00'	17.45'	8.75'
43	N 86°15'16" E		43.50'	
44	108°34'21"	61.00'	115.59'	84.85'
45	N 22°19'05" W		43.50'	
46	10°00'01"	100.00'	17.45'	8.75'
47	N 12°19'04" W		59.61'	
48	N 12°19'04" W		118.16'	
49	88°34'19"	27.00'	41.74'	26.34'
50	N 76°15'15" E		77.85'	
51	4°13'49"	318.00'	23.48'	11.74'

CENTERLINE DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	TANGENT
16	4°13'49"	300.00'	22.15'	11.08'
17	N 76°15'15" E		121.74'	
18	88°34'19"	45.00'	69.56'	43.89'
19	N 12°19'04" W		162.06'	



MATCHLINE STATION CONNELL ROAD 11+43.89
SEE SHEET NO. 4

ALTA MIRA WAY



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STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
RICHARD CARL O'NEILL
REGISTERED CIVIL ENGINEER NO. 63285
DATE 10/31/17

RICK
ENGINEERING COMPANY
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
951.782.0707
(FAX) 951.782.0723
CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 1/31/18
BENCH MARK: CITY OF RIVERSIDE BM DESIGNATION CI-63 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. QUARTER CORNER OF A CATCH BASIN ALONG THE WLY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMEVY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

MARK BY DATE
ENGINEER

REVISIONS

APPR. DATE CITY

DESIGNED BY: ROG DRAWN BY: ROG CHECKED BY: RCO

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

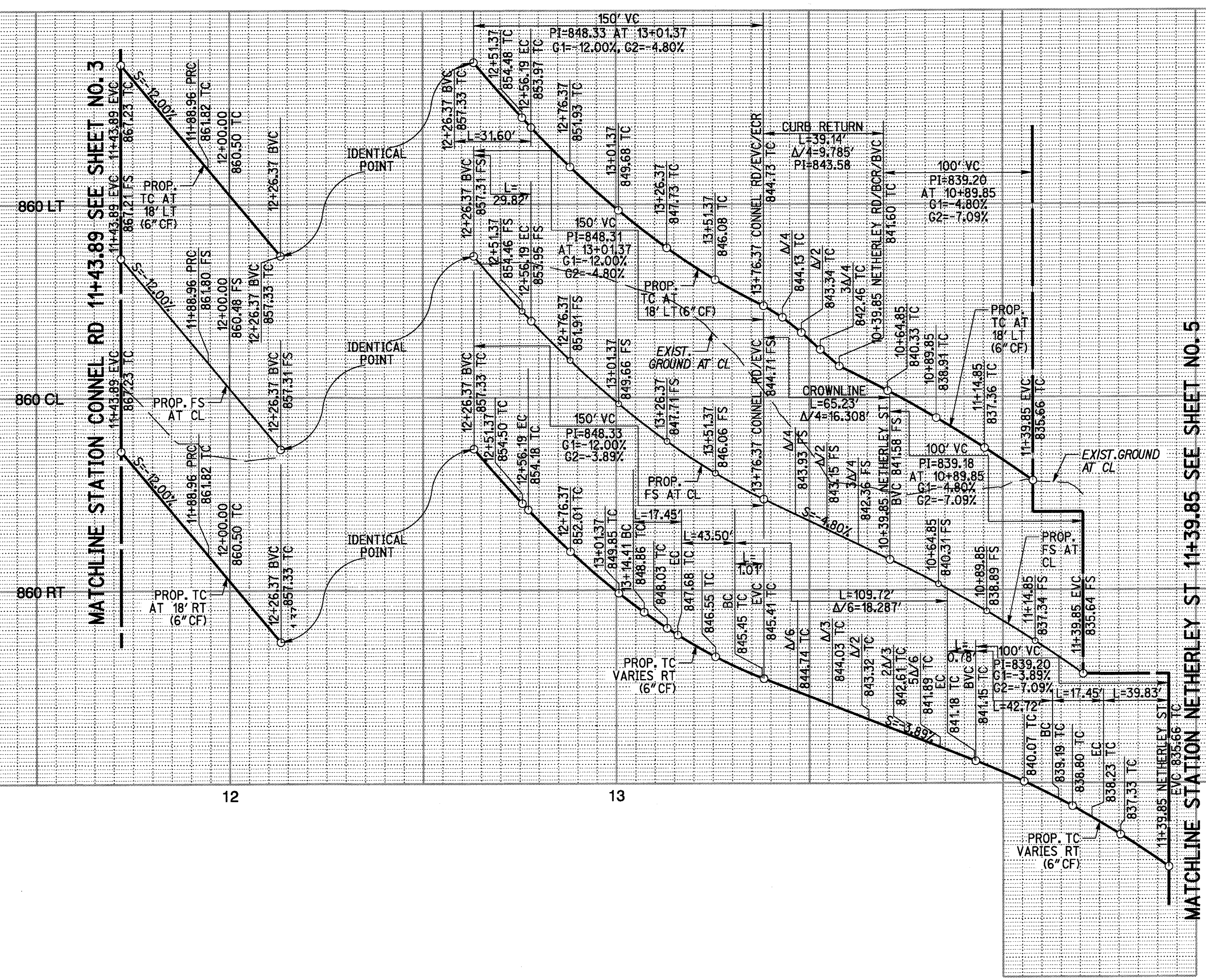
APPROVED BY: [Signature] BY: S.E. DATE: 10/30/17

CONST. CONTRACT ADMIN.
STREET SERVICES
SURVEYOR
TRAFFIC DIVISION
PARKS DEPARTMENT

STREET IMPROVEMENT PLAN
TRACT 32476
RIVERSIDE 26
ALTA MIRA WAY
PLAN & PROFILE

PW17-0313
R-4412
SHEET 3 OF 8
SCALE HORIZ: 1"=40' VERT: 1"=4'
FILE NO.

DESIGN SPEED
20 MPH



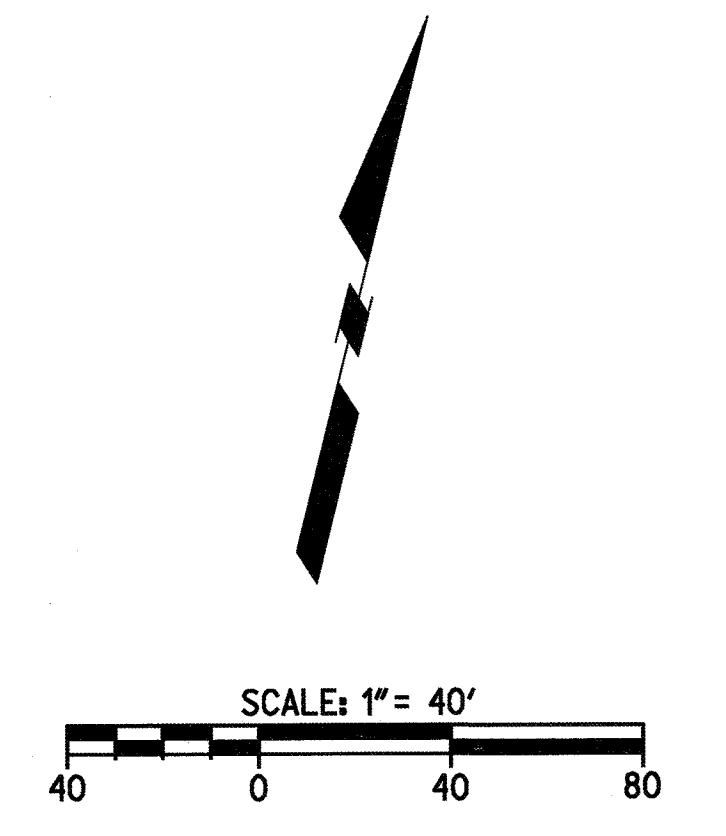
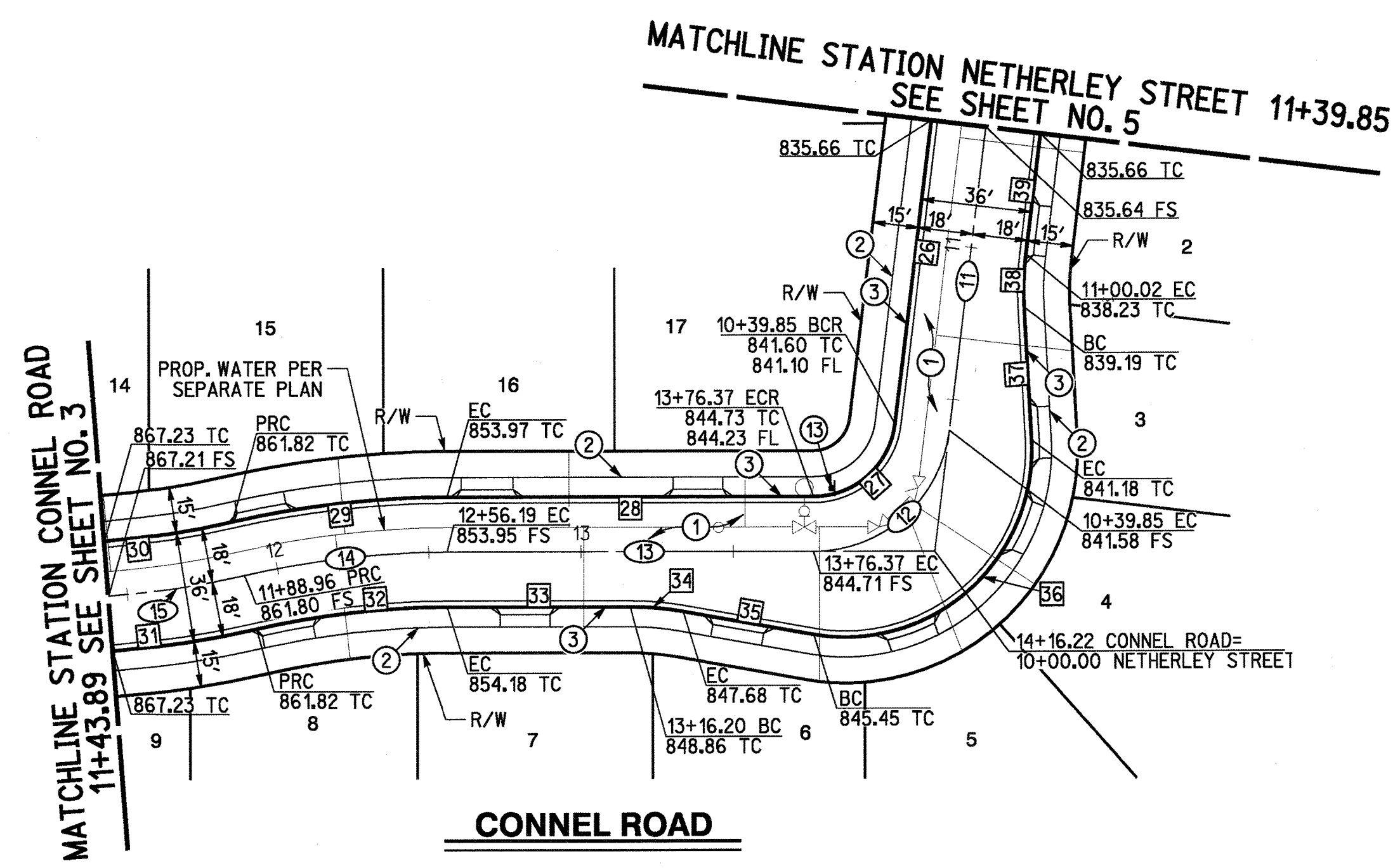
840 LT
840 CL
840 RT

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

CURB DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	REMARK
26	N 6°48'14" W		100.00'	
27	83°03'29"	27.00'	39.14'	23.91'
28	N 76°15'15" E		120.18'	
29	12°50'19"	318.00'	71.26'	35.78'
30	8°36'30"	282.00'	42.37'	21.22'
31	8°36'30"	318.00'	47.78'	23.93'
32	12°50'19"	282.00'	63.19'	31.73'
33	N 76°15'15" E		60.01'	
34	10°00'01"	100.00'	17.45'	8.75'
35	N 86°15'16" E		43.50'	
36	103°03'31"	61.00'	109.72'	76.77'
37	N 16°48'15" W		43.50'	
38	10°00'01"	100.00'	17.45'	8.75'
39	N 6°48'14" W		39.83'	

CENTERLINE DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	REMARK
11	N 6°48'14" W		139.85'	
12	83°03'29"	45.00'	65.23'	39.85'
13	N 76°15'15" E		160.04'	
14	12°50'19"	300.00'	67.22'	33.75'
15	8°36'30"	300.00'	45.07'	22.58'

- CONSTRUCTION NOTES**
- PLACE 0.25" MIN. AC PAVEMENT OVER 0.5" MIN. CLASS II AGGREGATE BASE
 - CONSTRUCT SIDEWALK (W=6.5') PER CITY OF RIVERSIDE STD 325
 - CONSTRUCT 6" CURB AND GUTTER TYPE I PER CITY OF RIVERSIDE STD 200
 - INSTALL STREET NAME SIGN PER CITY OF RIVERSIDE STD 662



CAUTION:
EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES IS UNKNOWN. CONTRACTOR TO VERIFY IN FIELD.

811
Know what's below.
Call before you dig.
Call at least 2 working days prior to excavating.

REGISTERED PROFESSIONAL ENGINEER
RICHARD CARL O'NEILL
No. 63285
Exp. 8-30-18
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
RICHARD CARL O'NEILL
REGISTERED CIVIL ENGINEER NO. 63285

RICK
ENGINEERING COMPANY
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
951.782.0707
951.782.0723
ricken@engineering.com
CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/18

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	S.E.	10/20/17	
CONST. CONTRACT ADMIN.			
STREET SERVICES			
SURVEYOR			
TRAFFIC DIVISION			
PARKS DEPARTMENT			

DESIGNED BY: ROG DRAWN BY: ROG CHECKED BY: RCO

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

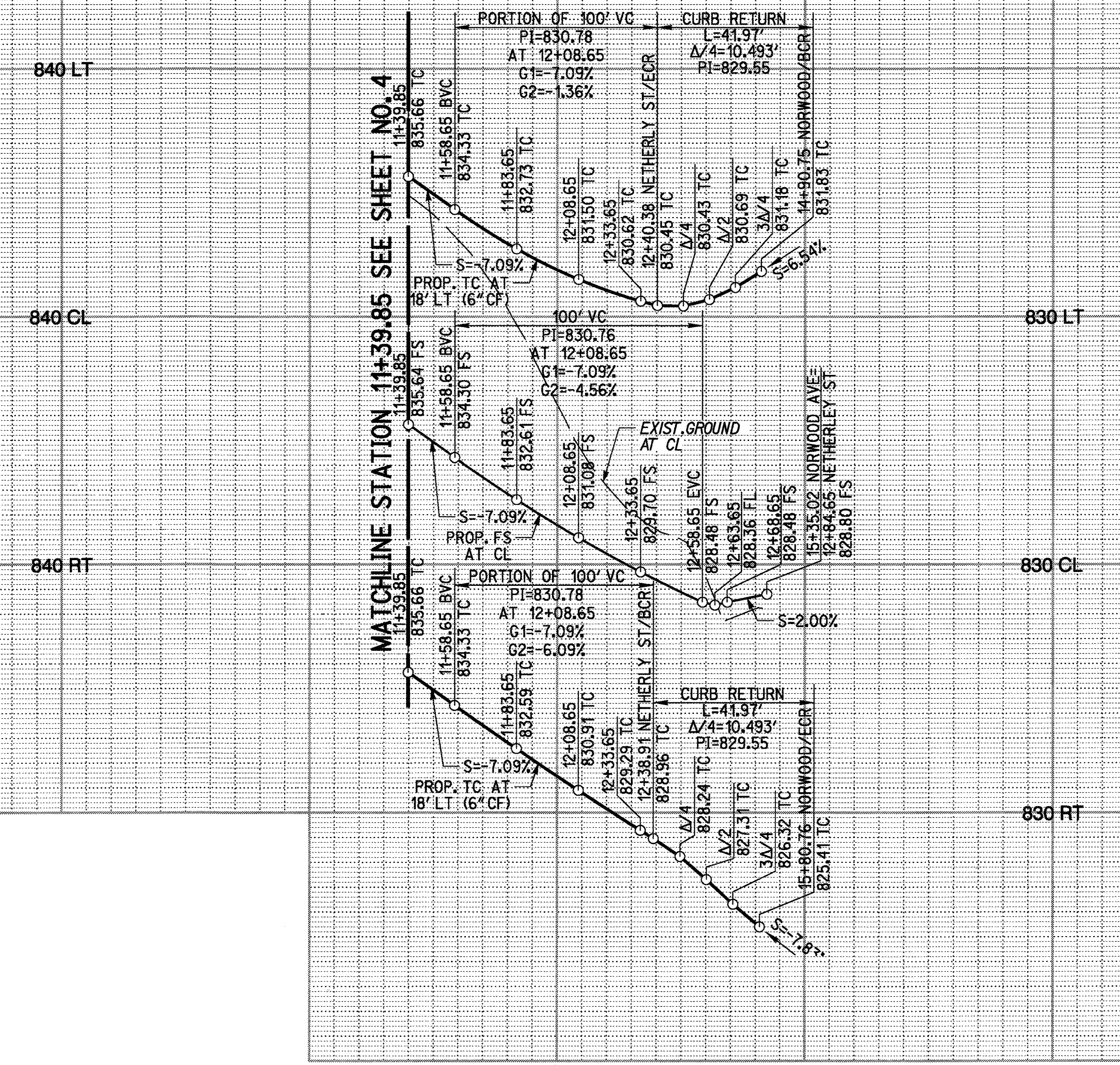
STREET IMPROVEMENT PLAN
TRACT 32476
RIVERSIDE 26
CONNELL ROAD
PLAN & PROFILE

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

PW17-0313
R-4412
SHEET 4 OF 8
FILE NO.

PLOT DATE: 16-OCT-2017 JUN 17973

DESIGN SPEED
20 MPH



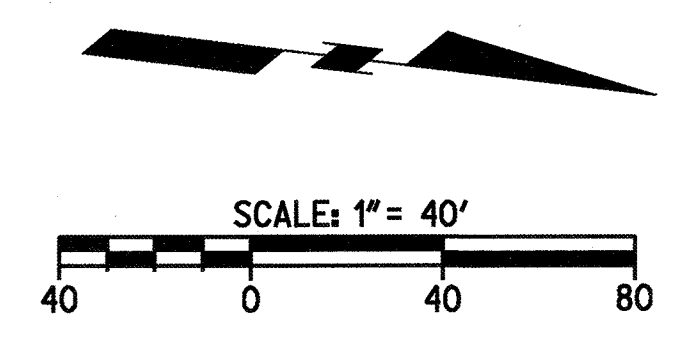
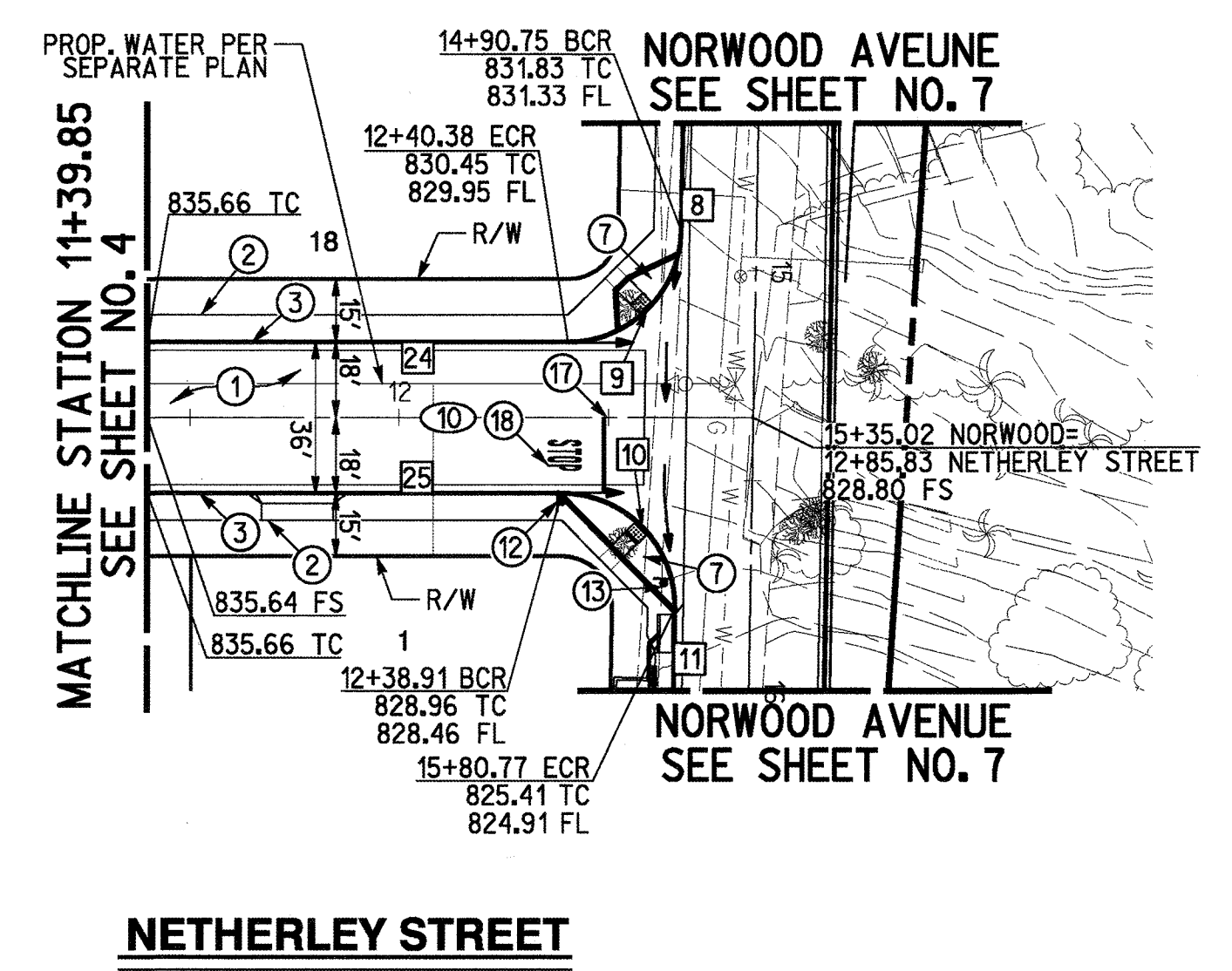
PROFILE SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONSTRUCTION NOTES

- ① PLACE 0.25' MIN. AC PAVEMENT OVER 0.5' MIN. CLASS II AGGREGATE BASE
- ② CONSTRUCT SIDEWALK (W=6.5') PER CITY OF RIVERSIDE STD 325
- ③ CONSTRUCT 6" CURB AND GUTTER TYPE I PER CITY OF RIVERSIDE STD 200
- ④ CONSTRUCT CURB RAMP PER CITY OF RIVERSIDE STD 304 TYPE I AND DETAILS ON SHEET 2
- ⑤ INSTALL STOP SIGN (CA MUTCD 2014 EDITION R1-1) PER CITY OF RIVERSIDE STD 664
- ⑥ INSTALL STREET NAME SIGN PER CITY OF RIVERSIDE STD 662
- ⑦ INSTALL 4" THERMOPLASTIC WHITE LIMIT LINE MARKING
- ⑧ INSTALL THERMOPLASTIC "STOP" PAVEMENT MARKING PER CA-MUTCD STANDARDS

CURB DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	REMARK
24	N 6°48'14" W		100.53'	
25	N 6°48'14" W		99.06'	

CENTERLINE DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	REMARK
10	N 6°48'14" W		144.80'	



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RICHARD CARL O'NEILL
No. 63285
Exp. 6-30-18
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
Richard Carl O'Neill
RICHARD CARL O'NEILL
REGISTERED CIVIL ENGINEER NO. 63285

RICK
ENGINEERING COMPANY
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
951.782.0707
FAX: 951.782.0723
CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/18
BENCH MARK: CITY OF RIVERSIDE BM DESIGNATION G1-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. CORNER OF A CATCH BASIN ALONG THE WLY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

MARK	BY	DATE	REVISIONS	APPR	DATE	CITY
DESIGNED BY	ROG					
DRAWN BY	ROG					
CHECKED BY	RCO					

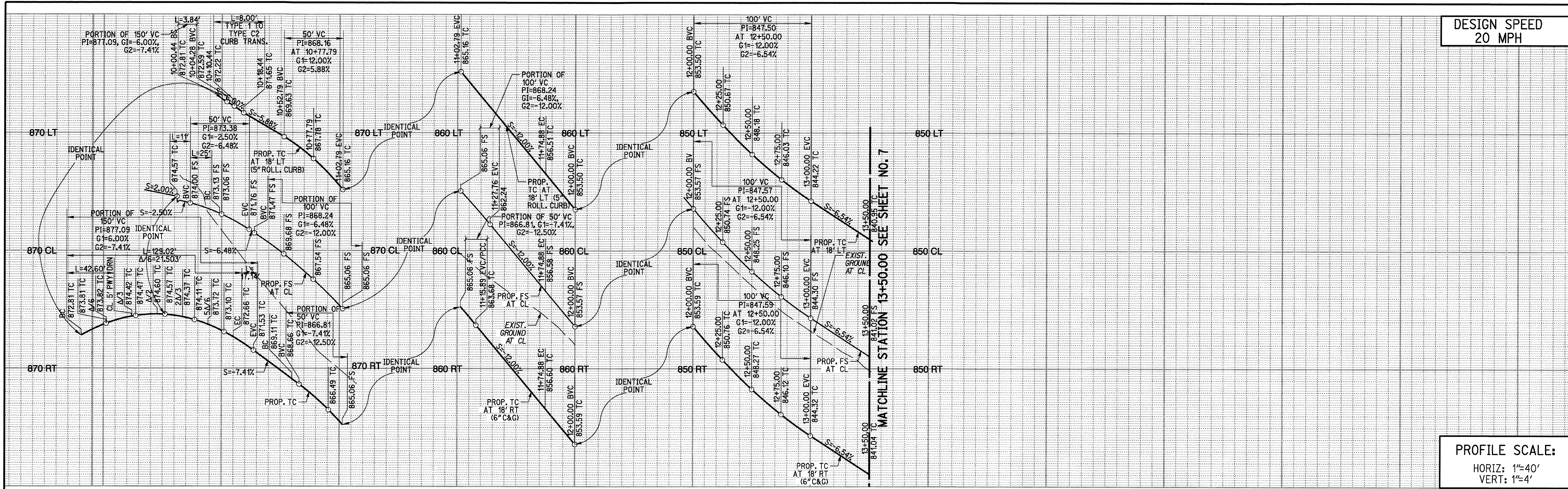
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	EL	10/31/17	<i>[Signature]</i>
CONST. CONTRACT ADMIN.			
STREET SERVICES			
SURVEYOR			
TRAFFIC DIVISION			
PARKS DEPARTMENT			
DATE	10/31/17		

STREET IMPROVEMENT PLAN
TRACT 32476
RIVERSIDE 26
NETHERLEY STREET
PLAN & PROFILE

PW17-0313
R-4412
SHEET 5 OF 8
SCALE
HORIZ: 1"=40' VERT: 1"=4'
FILE NO.
PLOT DATE: 16-OCT-2017 JUN 17973

DESIGN SPEED
20 MPH

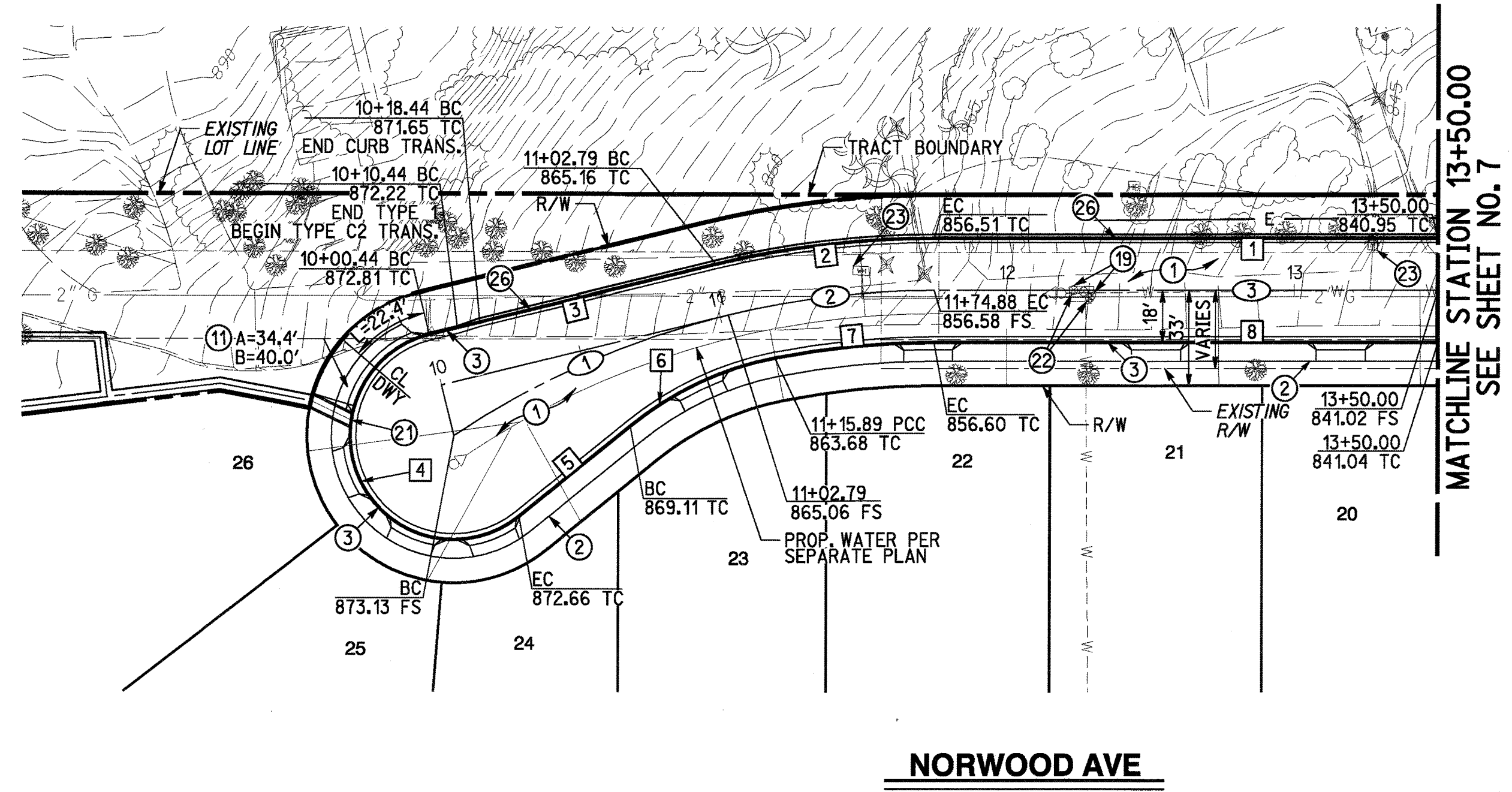


PROFILE SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

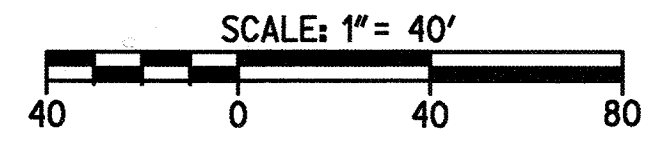
10 11 11 12 12 13

CURB DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	REMARK
1	N 86°56'42" E		175.12'	
2	13°46'05"	318.00'	76.41'	38.39'
3	N 73°10'37" E	300.00'	102.35'	
4	205°20'03"	36.00'	129.02'	-1.00'
5	N 47°50'34" E		49.67'	
6	27°54'44"	115.00'	56.02'	28.58'
7	11°15'57"	282.00'	55.45'	27.81'
8	N 86°56'42" E		175.12'	

CENTERLINE DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	REMARK
1	19°56'54"	300.00'	104.45'	52.76'
2	13°46'05"	300.00'	72.09'	36.22'
3	N 86°56'42" E		175.12'	



- CONSTRUCTION NOTES**
- PLACE 0.25' MIN. AC PAVEMENT OVER 0.5' MIN. CLASS II AGGREGATE BASE
 - CONSTRUCT SIDEWALK (W=6.5') PER CITY OF RIVERSIDE STD 325
 - CONSTRUCT 6" CURB AND GUTTER TYPE I PER CITY OF RIVERSIDE STD 200
 - CONSTRUCT DRIVEWAY APPROACH PER CITY OF RIVERSIDE STD 302 TYPE CURB-I
 - ADJUST WATER VALVE TO GRADE PER WATER PLAN
 - REMOVE WATER VALVE PER WATER PLAN
 - RELOCATE WATER METER PER WATER PLAN
 - CONSTRUCT ROLLED CURB TYPE C2 PER CITY OF RIVERSIDE STD 200



CAUTION:
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PREPARED UNDER THE DIRECTION OF
RICHARD CARL O'NEILL
REGISTERED CIVIL ENGINEER NO. 63285
DATE 10/31/17

RICK ENGINEERING COMPANY
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
951.782.0707
(FAX) 951.782.0723
rickengineering.com
San Diego - Orange - San Luis Obispo - Bakersfield - Sacramento - Phoenix - Tucson
CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 1/31/18
BENCH MARK: CITY OF RIVERSIDE BM DESIGNATION GI-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. CORNER OF A CATCH BASIN ALONG THE W. LY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

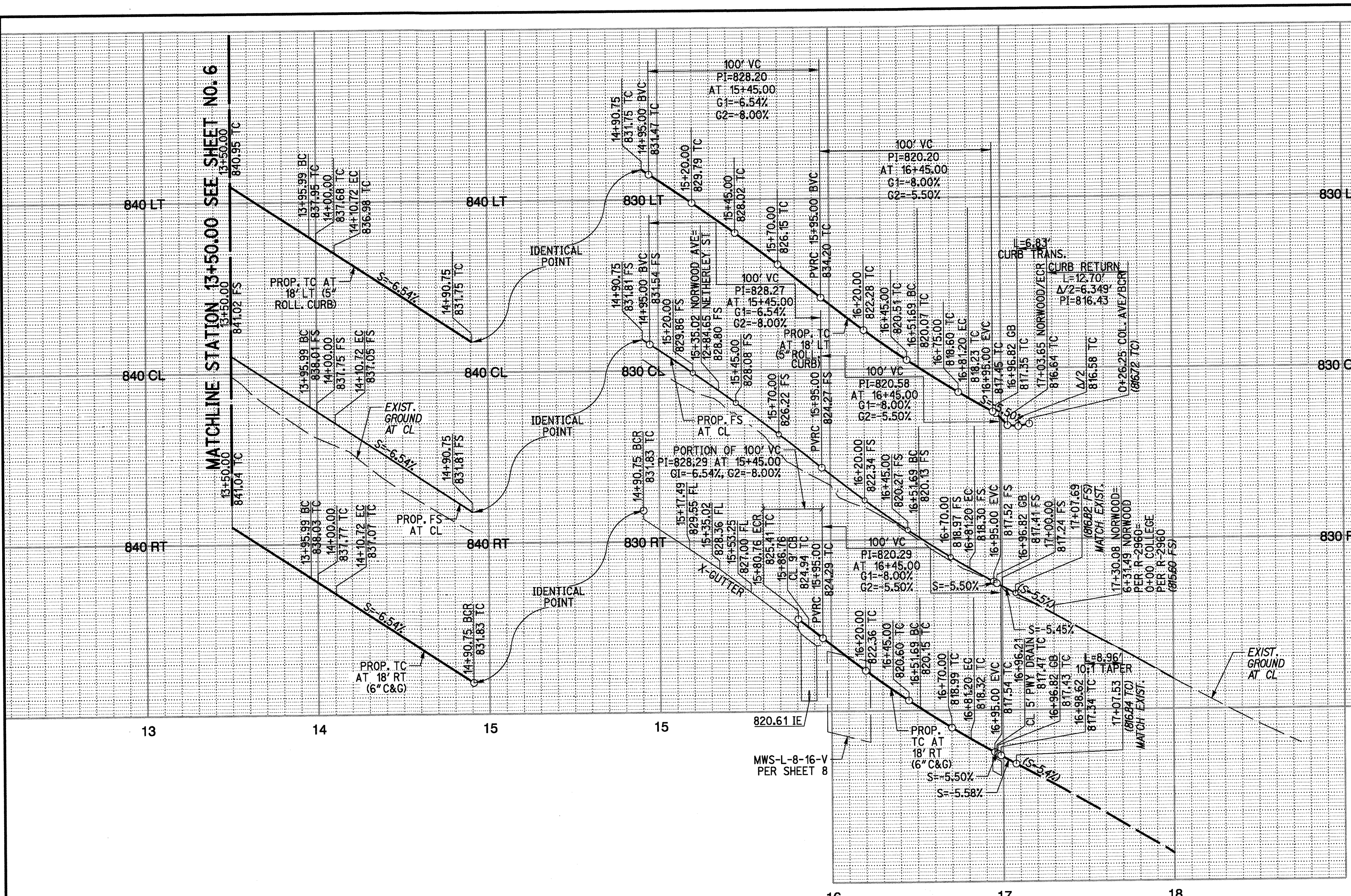
MARK BY DATE
DESIGNED BY: ROG DRAWN BY: ROG CHECKED BY: RCO

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature]
BY: [Signature] DATE: 10/31/17
APPROVED BY: [Signature]
DATE: 10/31/17

STREET IMPROVEMENT PLAN
TRACT 32476
RIVERSIDE 26
NORWOOD AVE
PLAN & PROFILE
SCALE
HORIZ: 1"=40' VERT: 1"=4'

PW17-0313
R-4412
SHEET 6 OF 8
FILE NO.

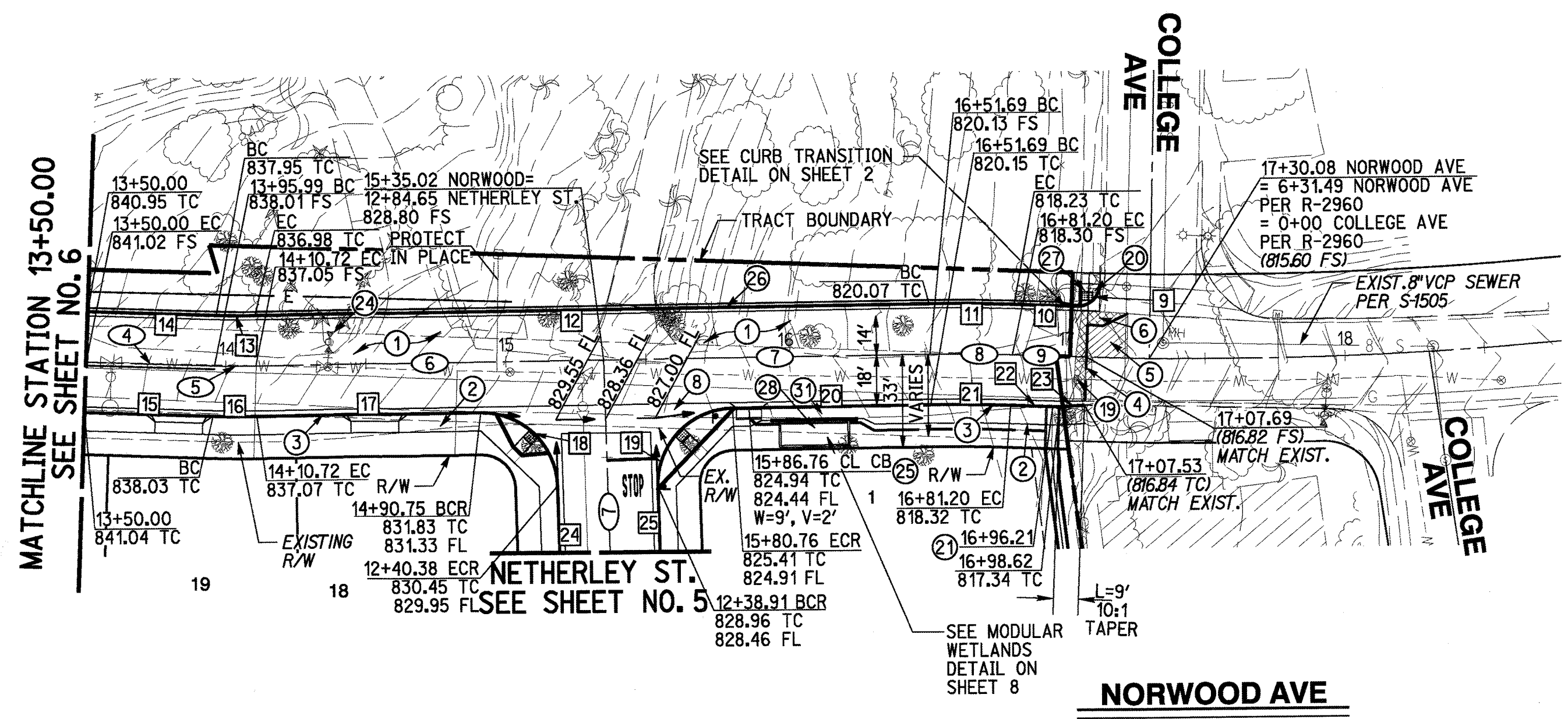
DESIGN SPEED
20 MPH



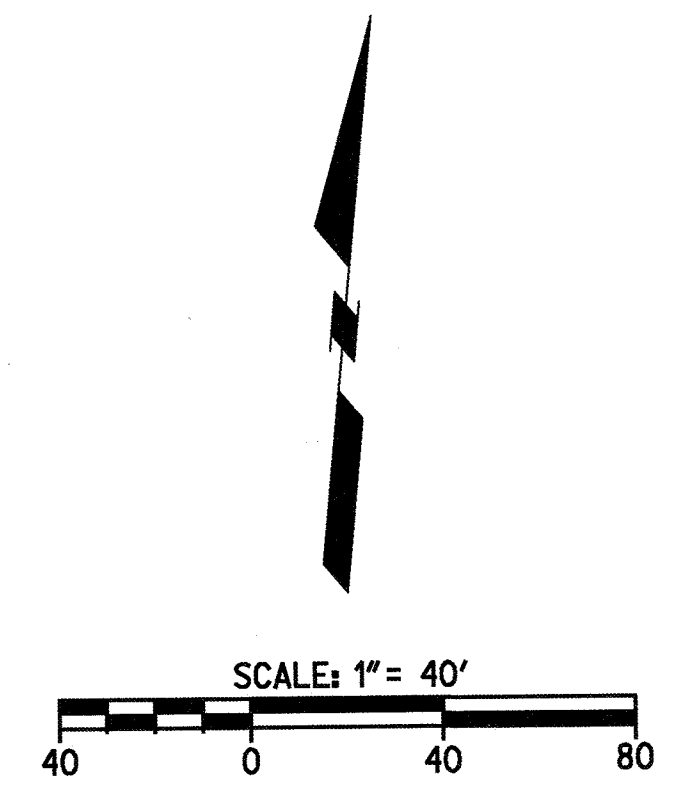
PROFILE SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CURB DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	REMARK
9	90°56'38"	8.00'	12.70'	8.13'
10	N 86°56'58" E		22.44'	
11	2°49'06"	618.00'	30.40'	15.20'
12	N 84°07'52" E		240.96'	
13	2°48'49"	282.00'	13.85'	6.93'
14	N 86°56'42" E		45.99'	
15	N 86°56'42" E		45.99'	
16	2°48'49"	318.00'	15.62'	7.81'
17	N 84°07'52" E		80.03'	
18	89°03'54"	27.00'	41.97'	26.56'
19	90°56'06"	27.00'	42.85'	27.44'
20	N 84°07'52" E		70.92'	
21	2°49'06"	582.00'	28.63'	14.32'
22	N 86°56'58" E		17.42'	
23	N 81°14'19" E		8.96'	

CENTERLINE DATA				
NO.	DELTA OR BRG.	RADIUS	LENGTH	REMARK
4	N 86°56'42" E		45.99'	
5	2°48'49"	300.00'	14.73'	7.37'
6	N 84°07'52" E		124.30'	
7	N 84°07'52" E		116.67'	
8	2°49'06"	600.00'	29.51'	14.76'
9	N 86°56'58" E		20.57'	

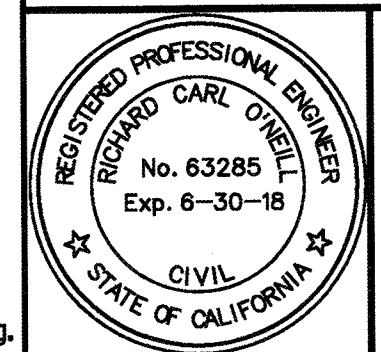


- CONSTRUCTION NOTES**
- PLACE 0.25" MIN. AC PAVEMENT OVER 0.5" MIN. CLASS II AGGREGATE BASE
 - CONSTRUCT SIDEWALK (W=6.5') PER CITY OF RIVERSIDE STD 325
 - CONSTRUCT 6" CURB AND GUTTER TYPE I PER CITY OF RIVERSIDE STD 200
 - SAWCUT EXIST. A.C. PVMT. SEE TYPICAL JOIN DETAIL ON SHEET 2
 - GRIND AND OVERLAY EXISTING PAVEMENT. SEE TYPICAL JOIN DETAIL ON SHEET 2
 - REMOVE EXISTING PAVEMENT
 - CONSTRUCT CROSS GUTTER PER CITY OF RIVERSIDE STD 220
 - ADJUST WATER VALVE TO GRADE PER WATER PLAN
 - PROTECT STOP SIGN IN PLACE
 - CONSTRUCT PARKWAY DRAIN PER CITY OF RIVERSIDE STD 410
 - REMOVE FIRE HYDRANT PER WATER PLAN
 - CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD 405
 - CONSTRUCT ROLLED CURB TYPE C2 PER CITY OF RIVERSIDE STD 200
 - CONSTRUCT CURB RAMP PER CITY OF RIVERSIDE STD 304 TYPE III AND DETAILS ON SHEET 2
 - INSTALL MODULAR WETLANDS STORMWATER BIOFILTRATION SYSTEM PER DETAILS ON SHEET 8



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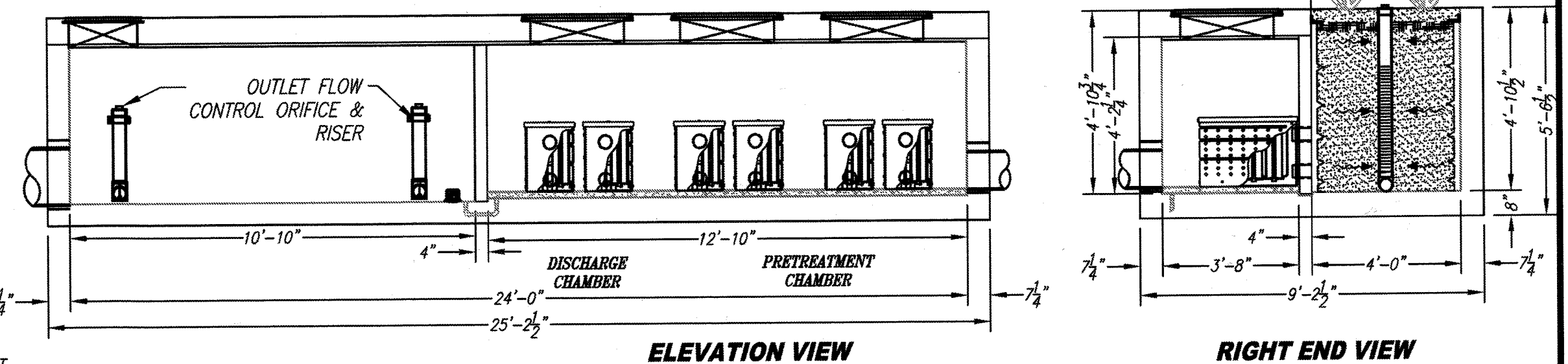
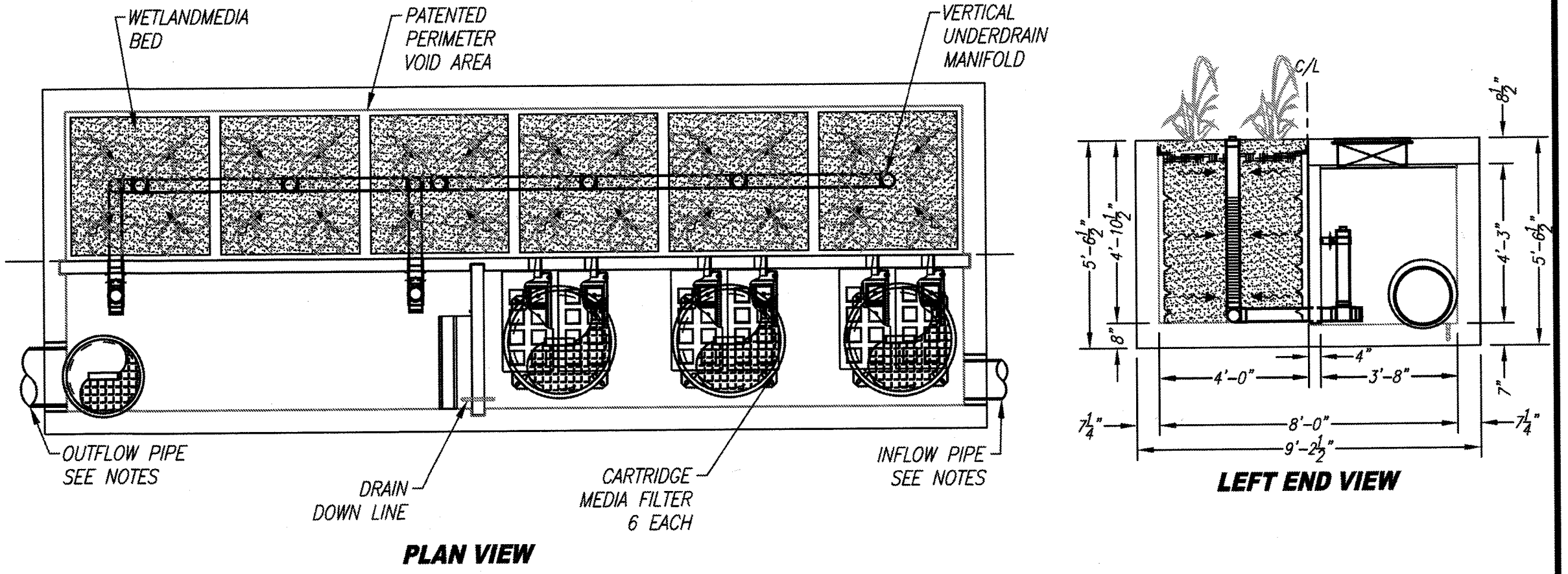


PREPARED UNDER THE DIRECTION OF
RICK ENGINEERING COMPANY
1770 IOWA AVENUE - SUITE 100
RIVERSIDE, CA 92507
951 782-0707
FAX: 951 782-0723
rickengineering.com
CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 1/31/18
BENCH MARK: CITY OF RIVERSIDE BM DESIGNATION GI-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. CORNER OF A CATCH BASIN ALONG THE WLY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100
REGISTERED CIVIL ENGINEER NO. 53285

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature] BY: [Signature] DATE: 10/20/17
PRINCIPAL ENGINEER
CONSTR. CONTRACT ADMIN.
STREET SERVICES
APPR. DATE: [Signature] DATE: 10/20/17
SURVEYOR
TRAFFIC DIVISION
PARKS DEPARTMENT
DESIGNED BY: ROG DRAWN BY: ROG CHECKED BY: RCO

STREET IMPROVEMENT PLAN PW17-0313
TRACT 32476
RIVERSIDE AVE
NORWOOD AVE
PLAN & PROFILE
R-4412
SHEET 7 OF 8
SCALE: HORIZ: 1"=40' VERT: 1"=4'
FILE NO.
PLANT DATE: 16-OCT-2017 JN 17973

SITE SPECIFIC DATA*			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
PERFORMANCE DATA			
TREATMENT FLOW (CFS)			
TREATMENT HGL (FT)		3.4	
BYPASS FLOW RATE (CFS)			
PROJECT PARAMETERS			
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1		PVC	
OUTLET PIPE 1		PVC	
RIM ELEVATION			
SURFACE LOADING REQUIREMENT		PARKWAY	
FRAME & PRETREATMENT	BIOFILTRATION	DISCHARGE	
COVER	30"		24"
WETLAND MEDIA VOLUME (CY)			
MEDIA DELIVERED			
ORIFICE SIZE (DIA)			
MAX PICK WEIGHT (LBS)			
NOTES:			
*PER ENGINEER OF RECORD			



MWS UNIT DESIGN DATA	
TREATMENT CAPACITY (CFS)	0.693
OPERATING HEAD (FT)	3.4
PRETREATMENT LOADING RATE (GPM/SF)	2.0
WETLAND LOADING RATE (GPM/SF)	1.0
MWS-L-8-24-V	
STORMWATER BIOFILTRATION SYSTEM	
STANDARD DETAIL	

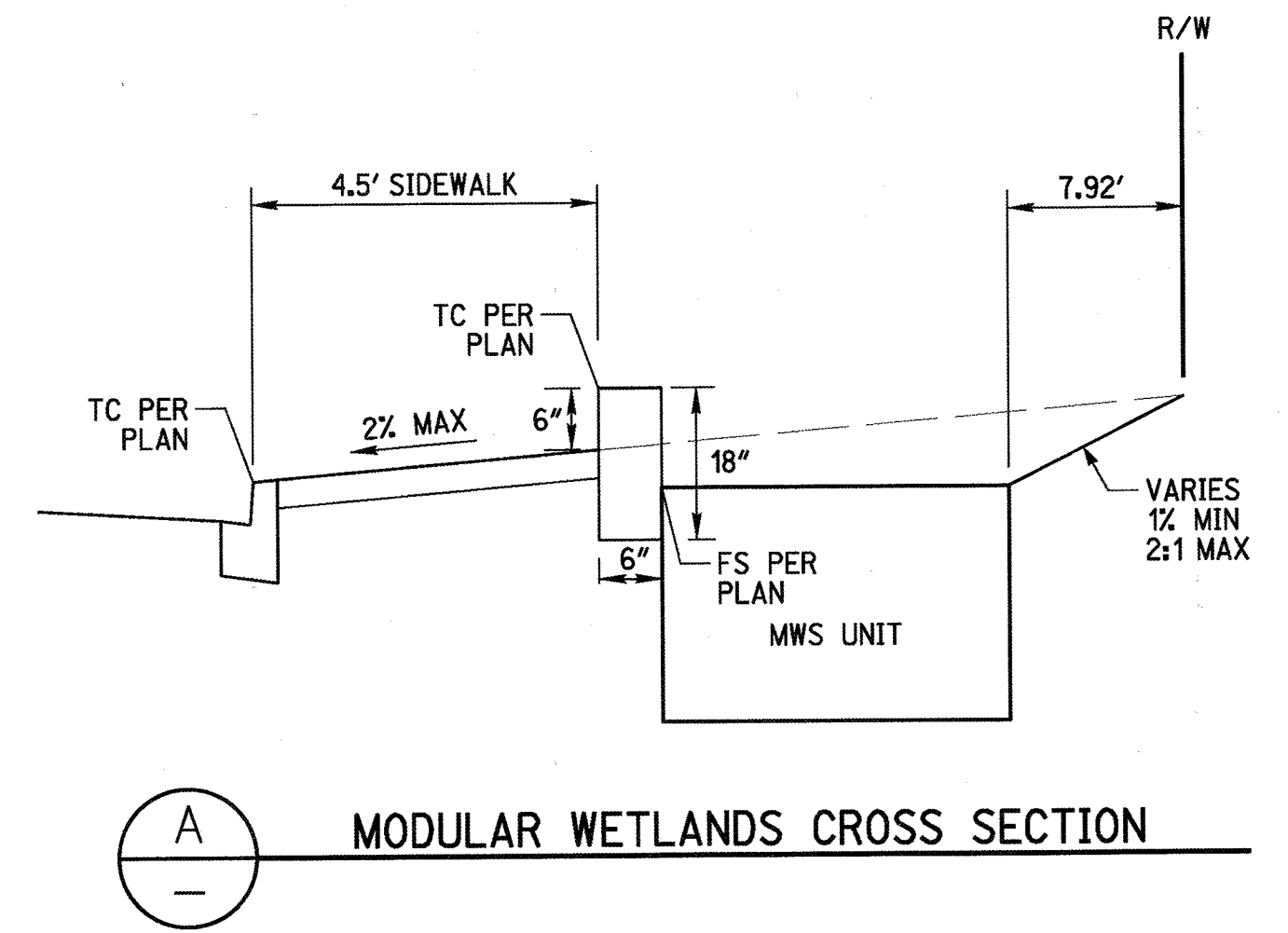
- INSTALLATION NOTES**
- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND ADJUSTMENTS IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
 - MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
 - ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH).
 - INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR.
 - ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURER'S STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
 - CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
- GENERAL NOTES**
- MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

THE PRODUCT DESCRIBED MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 7,425,282; 7,470,862; 7,614,478; 6,362,615; RELATED FOREIGN PATENTS OR OTHER PATENTS PENDING.

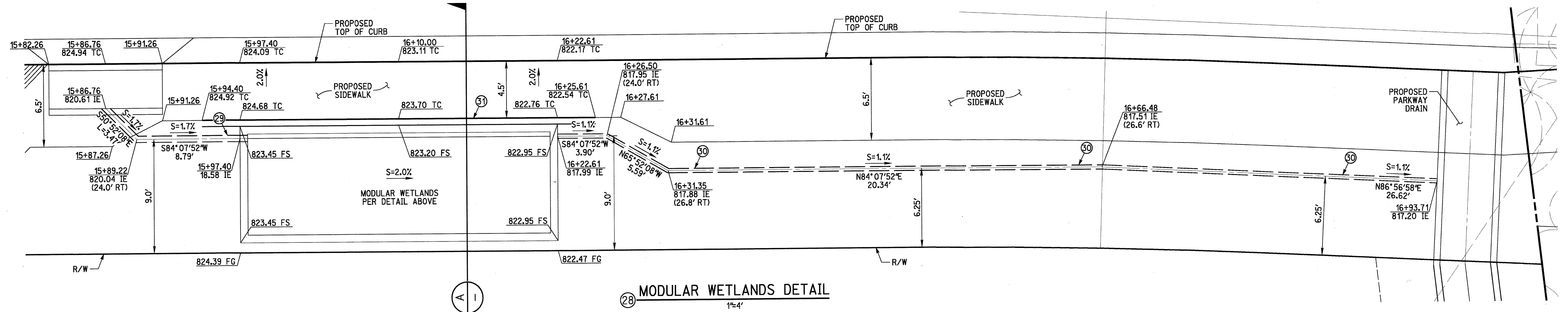
PROPRIETARY AND CONFIDENTIAL: THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MODULAR WETLANDS SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MODULAR WETLANDS SYSTEMS IS PROHIBITED.

MODULAR WETLANDS

- CONSTRUCTION NOTES**
- CONSTRUCT 6" PVC STORM DRAIN PIPE
 - CONSTRUCT 4" PVC STORM DRAIN PIPE
 - CONSTRUCT 6" CURB TYPE II PER CITY OF RIVERSIDE STD 200, EXTEND TO 18" DEPTH PER MODULAR WETLAND DETAIL THIS SHEET



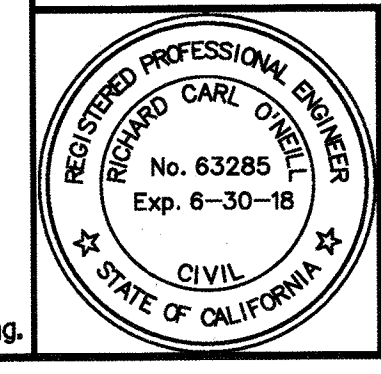
28 MODULAR WETLANDS DETAIL
NTS



28 MODULAR WETLANDS DETAIL
1"=4'

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RICK ENGINEERING COMPANY
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RIVERSIDE, CA 92507
951.782.0707
FAX: 951.782.0723
CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/18
BENCH MARK: CITY OF RIVERSIDE BM DESIGNATION CI-E3 BEING A PK NAIL AND CITY ENGINEER TAG IN THE S.W. CORNER OF A CATCH BASIN ALONG THE WLY CURB OF SIERRA VISTA AVE. AT THE N.W. CORNER OF GRAMERCY PL. AND SIERRA VISTA AVE. 1988 VERTICAL DATUM ELEVATION: 809.100

DESIGNED BY: ROG DRAWN BY: ROG CHECKED BY: RCO

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	<u>[Signature]</u>	10/31/17	<u>[Signature]</u>
CONSULT. CONTRACT ADMIN.			
STREET SERVICES			
SURVEYOR			
TRAFFIC DIVISION			
PARKS DEPARTMENT			

DATE: 10/31/17

STREET IMPROVEMENT PLAN PW17-0313
TRACT 32476
RIVERSIDE 26
MWS DETAIL SHEET
R-4412
SHEET 8 OF 8
SCALE: HORIZ: 1"=4' VERT: N/A
FILE NO.
PLANT DATE: 16-OCT-2017 JUN 17973