RIVERSIDE CALIFORNIA

CITY OF RIVERSIDE — INCORPORATED 1883

PUBLIC WORKS DEPARTMENT

COLUMBIA AVENUE WIDENING

FWY 91 TO A.T. & S.F. R.R.

PROJECT LENGTH: 0.28MI. (1,500')

T.I. = 9.5 ON COLUMBIA
T.I. = 6.0 ON ARDMORE & STACY

CONSTRUCTION LEGEND

CENTER LINE — ℄ —
RIGHT-OF-WAY LINE — R/W —
SUBDIVISION LOT LINE — ⅊ —
TOP OF SLOPE
TOE OF SLOPE
DIRECTION OF FLOW

- (A) REMOVE EXIST. AC AND REPLACE WITH 1.15'AC OVER NATIVE SOIL OR 0.33'AC OVER 1.88' CRUSHED AGGREGATE BASE OR SLAG BASE.
- (B) CONSTRUCT STRUCTURAL SECTION OF 1.15' A.C. OVER NATIVE SOIL OR 0.33'AC OVER 1.88' CRUSHED AGGREGATE BASE (C.A.B.) OR SLAG BASE (SB).
- (C) OVERLAY EXIST. A.C. PVMT. WITH A VARIABLE THICKNESS OF A.C. (0.10' MIN. OVER TRAVELED LANES).
- (D) CONSTRUCT 0.20'AC. OVER IMPORTED FILL MATERIAL
- (E) CONSTRUCT 0.30'AC (MISC. AREAS) OVER IMPORTED FILL MATERIAL OR NATIVE MATERIAL COMPACTED TO 90% MIN. REMOVE EXIST. AC IN THE MISC. AREAS WHERE APPLICABLE.
- (F) GRADE AREA BEHIND CURB OR BERM AS SHOWN ON THE PLANS AND TYPICAL SECTIONS. MATERIALS WITH R-VALUE EQUAL TO 65(MIN) SHALL BE USED IN FILL AND IN CUT AREAS WALKWAYS SHALL BE 0.25' THICK IMPORTED FILL MATERIAL. RELATIVE COMPACTION SHALL BE 90%(MIN.).
- (G) REMOVE EXIST. AC AND REPLACE WITH 0.10'AC OVER NATIVE SOIL OR 0.21'AC OVER 1.10' C.A.B. OR SB -STA. 1+10 TO 2+33 (ARDMORE ST.)
- (H) CONSTRUCT STRUCTURAL SECTION OF 0.70'AC OVER NATIVE SOIL OR 0.21'AC OVER 1.10' CAB OR SB -STA. 1+10 TO 1+75 (ARDMORE ST.) & MISC. AREAS WHERE SHOWN ON PLAN.
- (J) REMOVE OR SCARIFY EXIST. AC AND CONSTRUCT 0.58' AC OVER IMPORTED FILL MATERIAL OR 0.33'AC OVER 0.43' CAB. OR SB -STA. 16+00 TO 19+75
- (K) CONST. STRUC. SECTION OF 0.58'AC OVER IMPORTED FILL MATERIAL OR 0.33'AC OVER 0.43' CAB. OR SB.

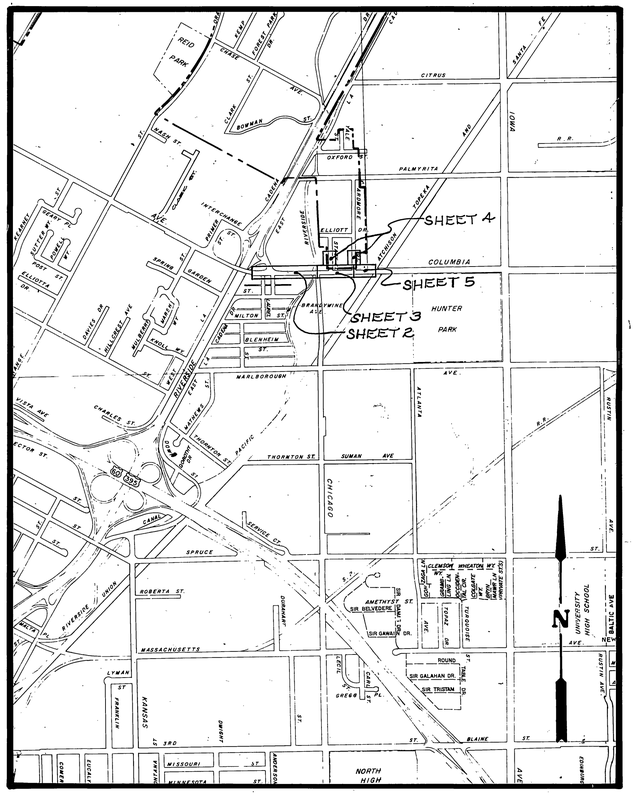
SPECIFIC CONSTRUCTION NOTES

⬢ NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET BELOW. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

- (431/M) CONSTRUCT MH PER STD 431 EXCEPT THAT MH STATION LOCATION IS AT CENTER OF BOX; L=5'.
- (380/M) CONSTRUCT CHAIN LINK FENCE PER STD 380 MODIFIED AS SHOWN ON PLAN. TURNBUCKLE AND 3/8" ROD ARE NOT REQUIRED.
- (R/T) REMOVE TREE. SEE SPECIAL PROVISIONS FOR TREE DIA. AND CLASS INVOLVED.
- (a) VALVE BOX, FIRE HYDRANT, SERVICE METER OR MANHOLE COVER TO BE ADJUSTED BY CITY FORCES.
- (r) FIRE HYDRANT OR SERVICE METER TO BE RELOCATED BY CITY FORCES.

GENERAL CONSTRUCTION NOTES

1. REMOVE ALL AC BERMS WITHIN PROJECT LIMITS.
2. CUT & FILL SLOPES ARE 1.5:1 OR FLATTER.
3. RIGHTS OF ENTRY HAVE BEEN OBTAINED FOR WORK SHOWN ON PRIVATE PROPERTY.
4. CONFLICTING UTILITIES SHOWN WITHIN CONSTRUCTION AREA WILL BE RELOCATED PRIOR TO OR DURING CONSTRUCTION. SEE (a) & (r) ABOVE FOR ADJUSTING AND RELOCATING WATER FACILITIES.



PROJECT LOCATION PLAN

0 KM. 0.5 KM. 1 KM. 1.5 KM.
0' 500' 1000' 2000' 3000' 4000' 5000' 6000'

SCALE 1" = 1000'

EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

EXISTING UNDERGROUND UTILITIES:

SANITARY SEWER — 8"S —
WATER LINE — 6"W —
STORM DRAIN — 24"S.D. —
GAS LINE — 3"G —
IRRIGATION LINE — 20" IRR. —
ABANDONED UTILITY — 6"G (ABAN'D.) —
TELEPHONE CONDUIT — T —
ELECTRICAL CONDUIT — E —
STREET LIGHTING — SL —
TRAFFIC SIGNAL — SIG —
FIRE ALARM — F —

EXISTING TOPOGRAPHY:

BLOCK WALL
BOARD FENCE
WIRE FENCE
CHAIN LINK FENCE
TOP OF SLOPE
TOE OF SLOPE
DIRECTION OF FLOW

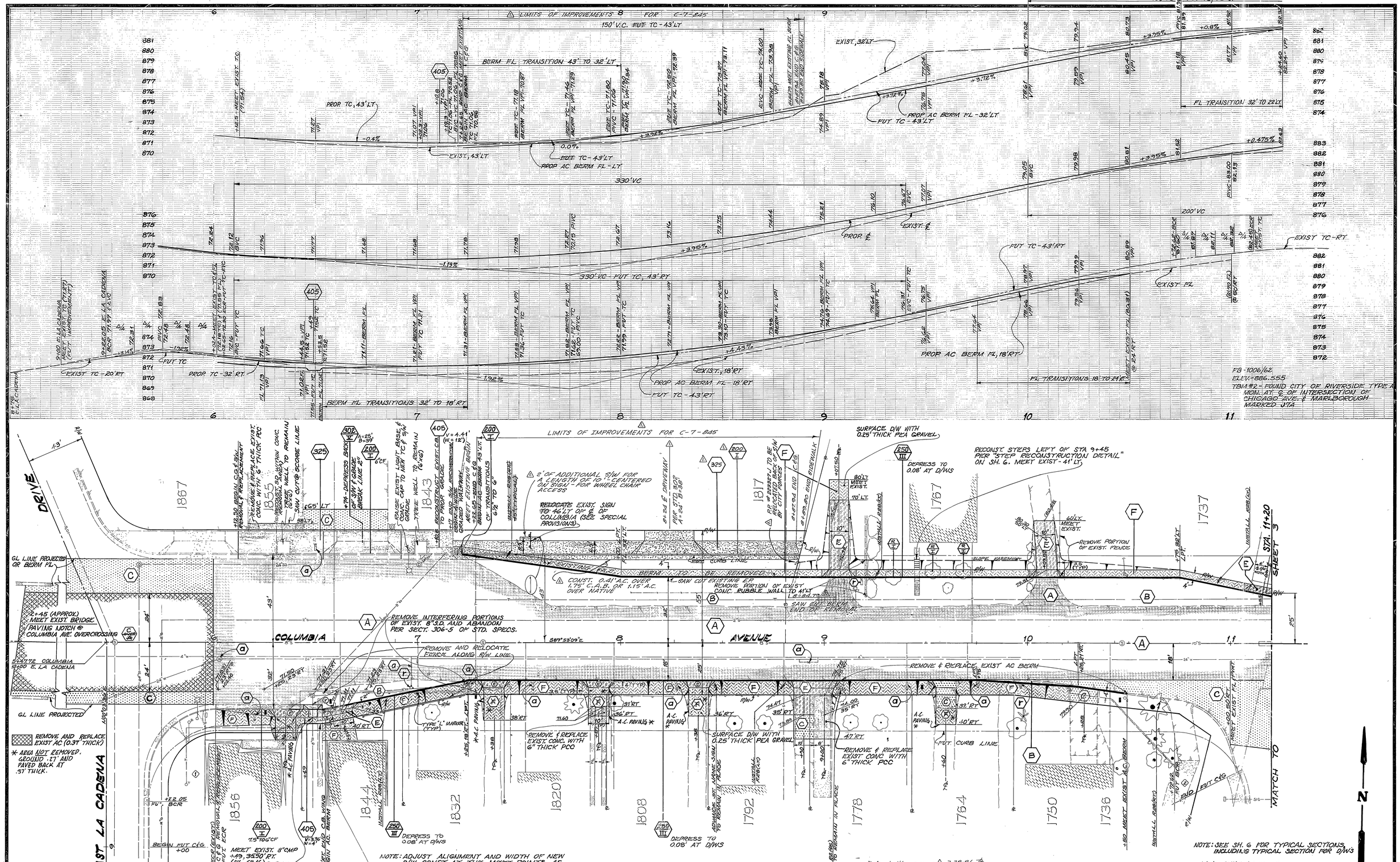
SANITARY SEWER M.H.
SANITARY SEWER CLEANOUT
STORM DRAIN M.H.
IRRIGATION WEIR
WATER M.H.
GAS M.H.
ELECTRIC M.H.
TELEPHONE M.H. OR VAULT
WATER METER
FIRE HYDRANT
SPRINKLER HEAD
VALVE
AIR VALVE
AIR VENT
POLE & GUY ANCHOR
ELECTRIC POLE
TELEPHONE POLE
JOINT USE POLE
PULL BOX
TRAFFIC SIGN
PARKING METER
FIRE ALARM BOX
STREET NAME SIGN
GAS METER
MAIL BOX
FAUCET
TELEPHONE RISER
WHEEL STOP
A.C. BERM
STEEL POST
WOOD POST
PEDESTRIAN PUSH BUTTON
RAILROAD TRACKS
RAILROAD SIGN
RAILROAD SIGNAL
STREET LIGHT & TRAFFIC SIGNAL ON MAST ARM
STREET LIGHT (UPRIGHT)
STREET LIGHT
TRAFFIC SIGNAL
TRAFFIC SIGNAL ON MAST ARM
TRAFFIC SIGNAL CONTROLLER
TRAFFIC SIGNAL PRESSURE DETECTOR
TRAFFIC SIGNAL LOOP DETECTOR
CONCRETE
ASPHALT
EDGE OF PAVEMENT
BUILDING
UNDERGROUND STRUCTURE
OVERHANGING STRUCTURE
CITRUS TREE
DECIDUOUS TREE
PALM TREE
SHRUBBERY
TREE STUMP
EVERGREEN TREE

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT				COLUMBIA AVENUE WIDENING FWY 91 TO A.T. & S.F. R.R.	ACCOUNT No. 30-575-200-07 DRAWING NUMBER R-2278
APPROVED BY	BY	DATE	APPROVED BY:		
PRINCIPAL ENGINEER		9-28-82			
PARK DEPARTMENT		4/13/83	PUBLIC WORKS DIRECTOR		
TRAFFIC DIVISION		6/14/82			
CHIEF F.W. ENGINEER		9-28	DATE 9/28/82		SHEET 1 OF 6
WATER SYSTEMS MGR.		6/21/82		DESIGNED BY ___ DRAWN BY ___ CHECKED BY ___	

*AS BUILT 4-5-83 CE

INDEXED

11-7 11-3



NOTE: ADJUST ALIGNMENT AND WIDTH OF NEW D/W CONST AT THE MEET POINTS AS NECESSARY TO MATCH EXISTING CONDITIONS. SEE PLAN, STA. 7+89 RT FOR TYPICAL AC D/W APPROACH AND DIMENSIONS.

NOTE: SEE SH. 6 FOR TYPICAL SECTIONS, INCLUDING TYPICAL SECTION FOR D/WS

* As built revision △ 7-28-86 TL

* AS BUILT 4-5-83 CR INDEXED UP

REMOVE AND RECONST PORTION OF EXIST. CONC. WALK AND CONST. STEPS SIMILAR TO "STEP RECONSTRUCTION DETAIL" ON SH. 6 EXCEPT THAT ONLY 2-7" RISERS WITH A 21" RUN BETWEEN THEM IS REQUIRED.

Ronald J. Pitters R.C.E. 16041
905 E. Garfield Ave. #9
Glendale, California 91205
Approved By: Ronald J. Pitters
Date: 10/22/1985

CITY OF RIVERSIDE
ELECTRIC - OVERHEAD & UNDERGROUND
Wm W Putten 10/23/85
CHIEF UTILITIES ENGINEER DATE

CURVE DATA

INDEX	R	Δ	T	L
1 FUT.	35'	90°03'15"	35.03'	55.01'
2 FUT.	35'	63°23'31"	21.61'	38.72'

△ ADDED IMPROVEMENTS FROM 7+22.65 TO 8+87.94 LT. C-7-845 M.E.A. 10/11/85

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DRAWN BY CHECKED BY

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY		
PRINCIPAL ENGINEER		9/28/82
PARK DEPARTMENT		4/19/82
TRAFFIC DIVISION		8/9/82
CHIEF P. W. ENGINEER		9-28

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 9/28/82

COLUMBIA AVENUE WIDENING
FWY 91 TO A.T. & S.F. R.R.

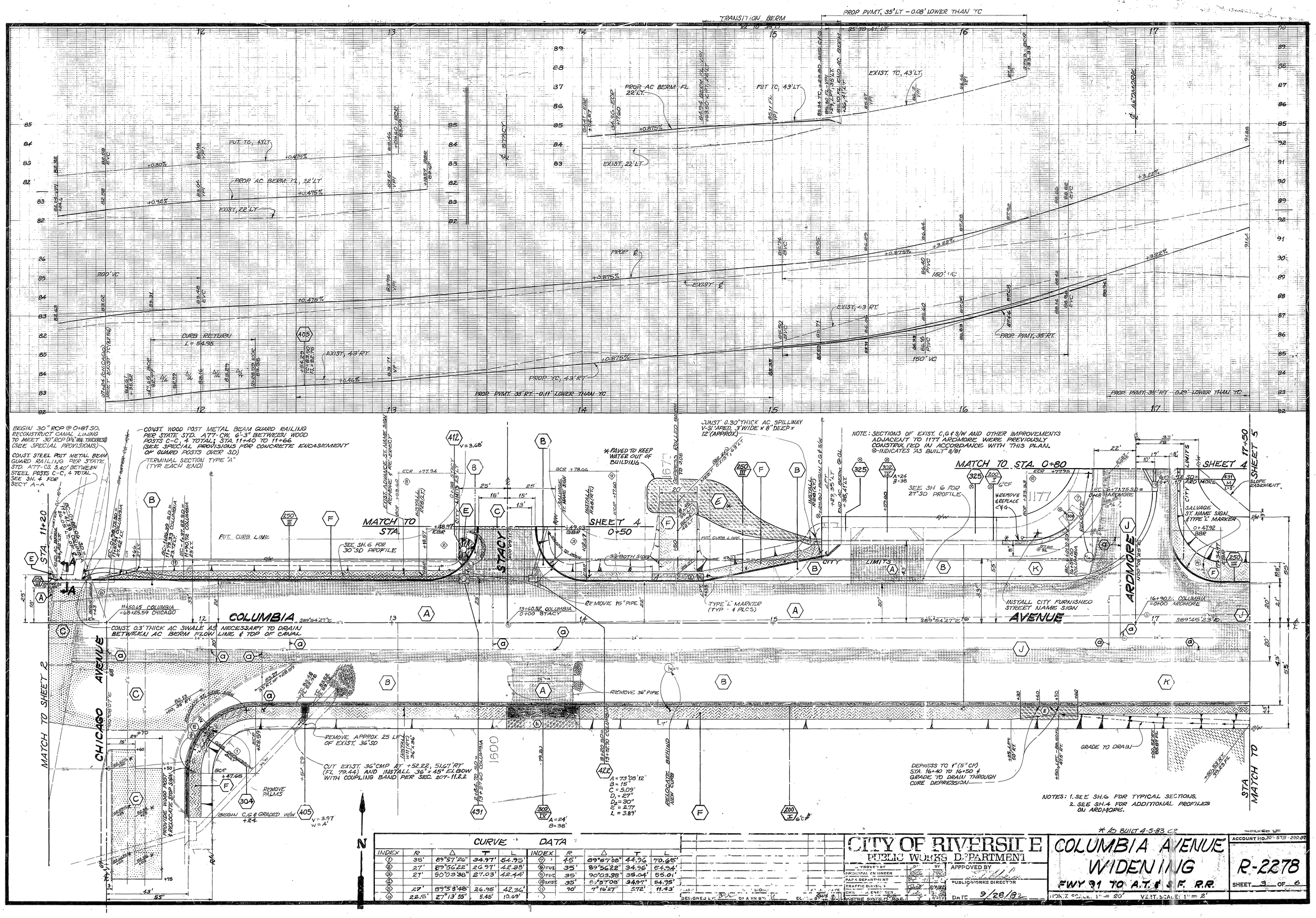
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

ACCOUNT NO. 30-575-200-07

R-2278

SHEET 2 OF 6

FILE NO.



NOTES: 1. SEE SH. 6 FOR TYPICAL SECTIONS.
2. SEE SH. 4 FOR ADDITIONAL PROFILES ON ARDMORE.

* AS BUILT 4-5-83 CR

CURVE DATA

INDEX	R	Δ	T	L	INDEX	R	Δ	T	L
1	35'	89°57'26"	34.97'	54.95'	7	45'	89°57'08"	44.96'	70.65'
2	27'	89°56'22"	26.97'	42.38'	8 FUT	35'	89°56'22"	34.96'	54.94'
3	27'	90°03'38"	27.03'	42.44'	9 FUT	35'	90°03'38"	35.04'	55.01'
4					10 EXIST.	35'	89°57'08"	34.97'	54.95'
5	27'	89°53'48"	26.95'	42.36'	11	90'	7°16'27"	5.72'	11.43'
6	22.5'	27°13'55"	5.45'	10.69'					

A = 73°08'12"
B = 15'
C = 5.09'
D₁ = 27"
D₂ = 30"
E = 2.77
L = 3.89'

A = 24'
B = 38'

A = 24
B = 38

V = 3.97
W = 4'

V = 3.68'

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

		BY	
PROVED BY			
PRINCIPAL ENGINEER			
PARKS DEPARTMENT			
TRAFFIC DIVISION			
CHIEF ENGINEER			

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 9/28/82

DESIGNED BY: DRAWN BY: ENGINEER: WATER SYSTEM

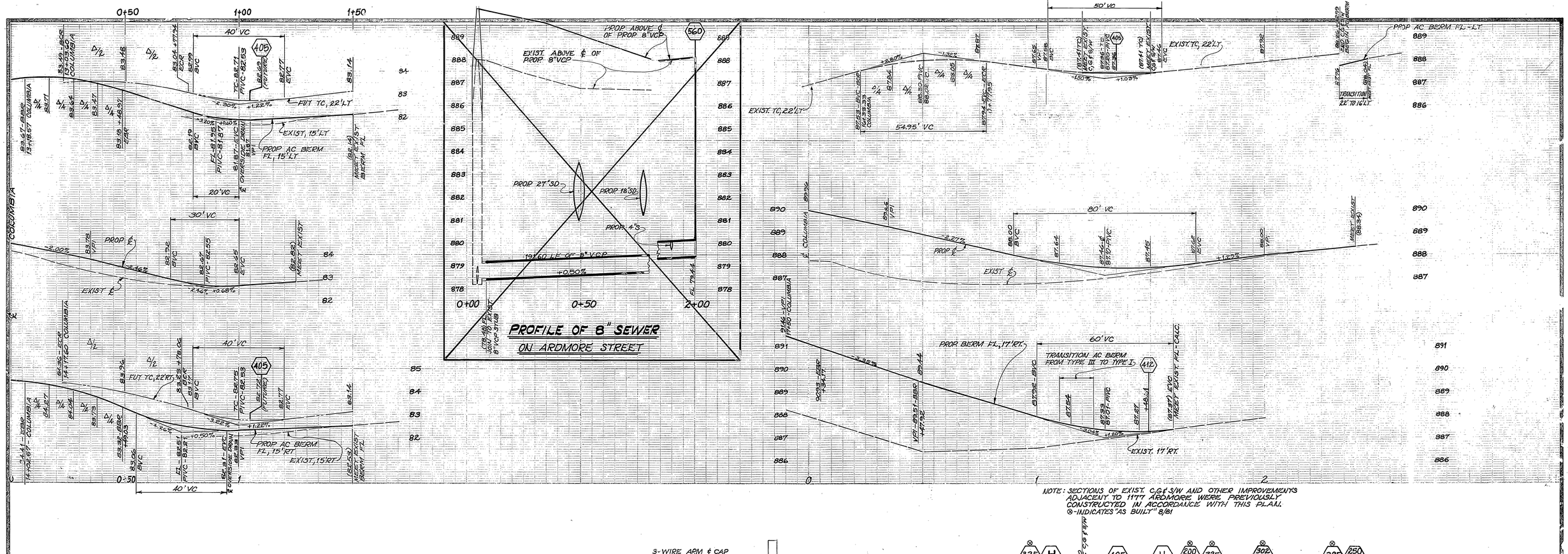
COLUMBIA AVENUE WIDENING
FWY 91 TO A.T. & S.F. R.R.

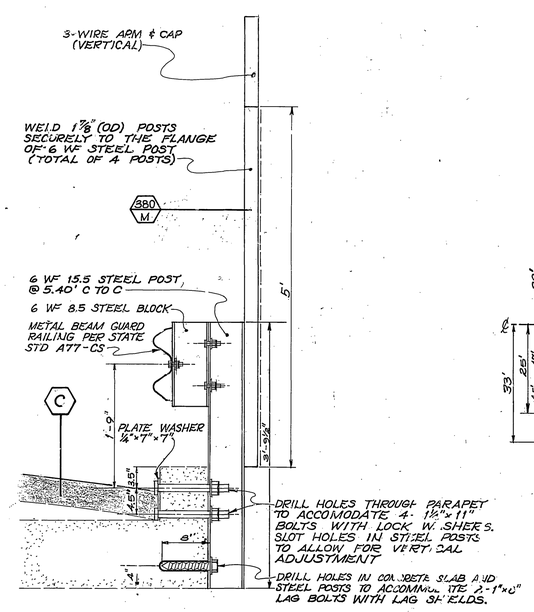
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 2'

INDEXED TO
ACCOUNT NO. 30-575-200-08

R-2278

SHEET 3 OF 6

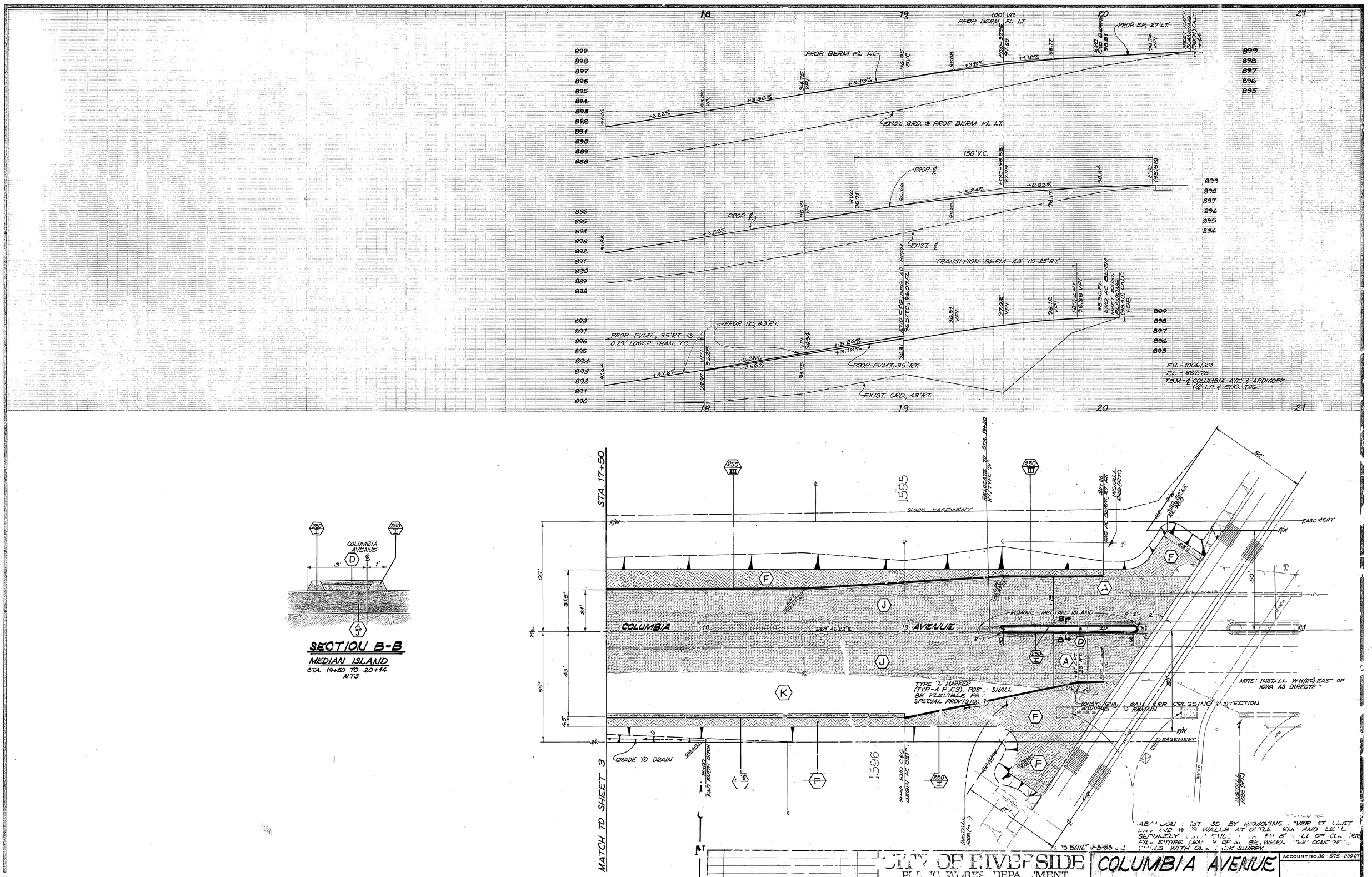




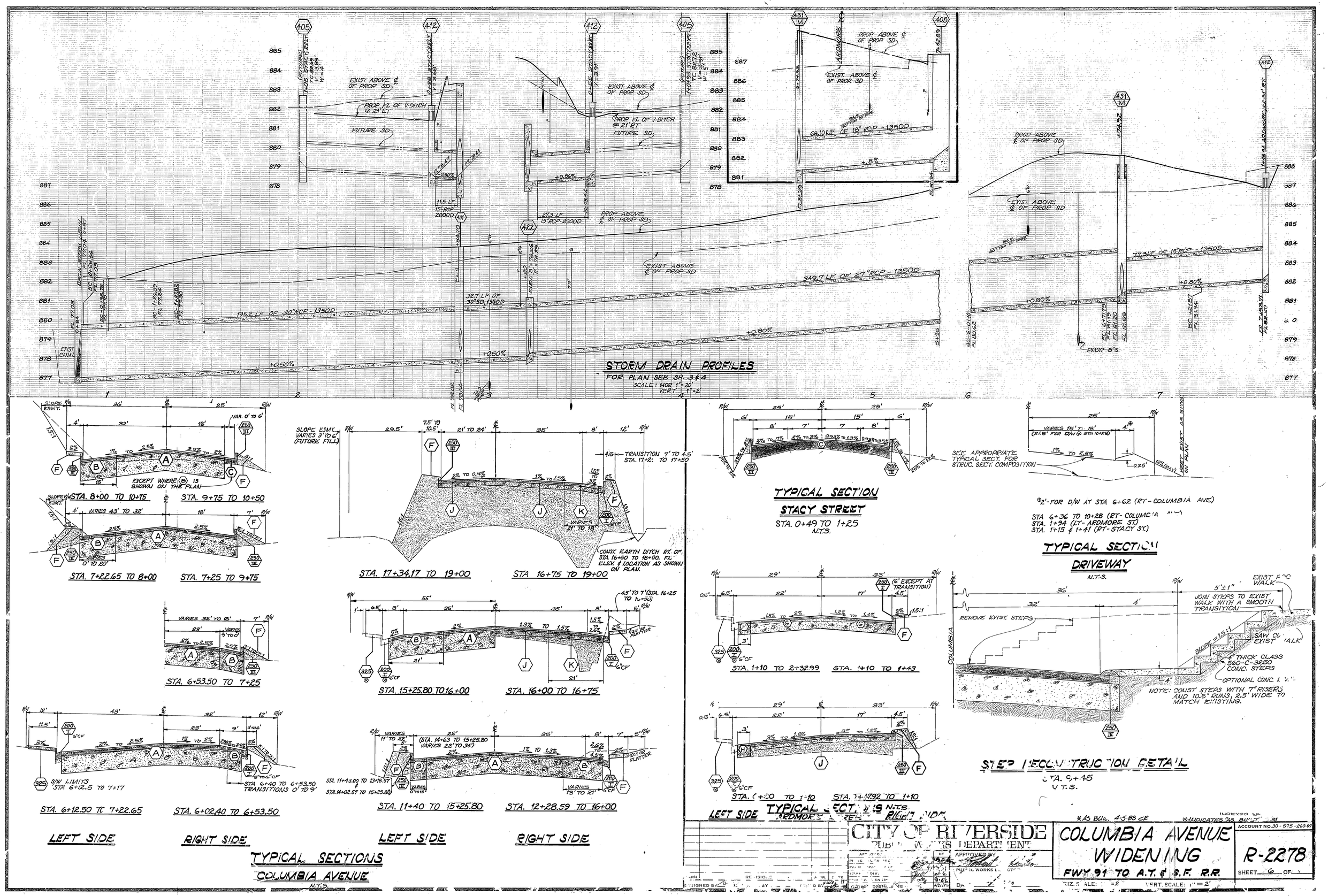
SECTION A-A
N.T.S.
STA 11+23 TO 11+40 LT. ON COLUMBIA (SEE SH. 3)

*AS BUILT 4-5-83 CB

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT	COLUMBIA AVENUE WIDENING FWY 91 TO A.T. & S.F. R.R.	ACCOUNT NO. 30-575-200-07	R-2278
		SHEET 1 OF 6	



PROP. BERM FL LT.
100' VC
PROP. EP, 27' LT.
EXIST. GRD. @ PROP. BERM FL LT.
150' V.C.
PROP. ℄
EXIST. ℄
TRANSITION BERM 43' TO 25' RT.
PROP. PVMT, 35' RT. IS 0.29' LOWER THAN T.C.
PROP. T.C. 43' RT.
PROP. PVMT, 35' RT.
EXIST. GRD. 43' RT.
F.B. - 1006/29
EL. - 887.75
T.B.M. - ℄ COLUMBIA AVE. & ARDMORE 1¼" I.P. & ENG. TAG
SECTION B-B
MEDIAN ISLAND
STA. 19+50 TO 20+14
NTS
COLUMBIA AVENUE
STA. 17+50
MATCH TO SHEET 3
SLOPE EASEMENT
EASEMENT
REMOVE MEDIAN ISLAND
TYPE "L" MARKER (TYP-4 P.CS). POS SHALL BE FLEXIBLE PE SPECIAL PROVISION
GRADE TO DRAIN
NOTE: INSTALL W11(RT) EAST OF IOWA AS DIRECTED
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
COLUMBIA AVENUE WIDENING
FWY 91 TO A.T. & S.F. R.R.
R-2278
ACCOUNT NO. 30-575-200-07
SHEET 5 OF 6


STORM DRAIN PROFILES
FOR PLAN SEE SH. 3 & 4
SCALE: HOR 1"=20'
VERT 1"=2'
EXIST ABOVE ℄ OF PROP SD
PROP FL OF V-DITCH @ 21' LT
FUTURE SD
PROP FL OF V-DITCH @ 21' RT
PROP ABOVE ℄ OF PROP SD
68.10 LF OF 18" RCP - 1350D
77.3 LF OF 18" RCP - 1350D
349.7 LF OF 27" RCP - 1350D
195.2 LF OF 30" RCP - 1350D
32.7 LF OF 30" SD - 1350D
11.5 LF 15" RCP 2000D
27.3 LF 15" RCP - 2000D
EXIST CANAL
PROP 8'S
TYPICAL SECTION
STACY STREET
STA. 0+49 TO 1+25
N.T.S.
SEE APPROPRIATE TYPICAL SECT. FOR STRUC. SECT. COMPOSITION
⊕2'-FOR D/W AT STA 6+62 (RT-COLUMBIA AVE)
STA 6+36 TO 10+28 (RT-COLUMBIA AVE)
STA. 1+94 (LT-ARDMORE ST.)
STA. 1+15 & 1+41 (RT-STACY ST.)
TYPICAL SECTION
DRIVEWAY
N.T.S.
STA. 8+00 TO 10+75
STA. 9+75 TO 10+50
STA. 7+22.65 TO 8+00
STA. 7+25 TO 9+75
STA. 6+53.50 TO 7+25
STA. 6+12.50 TO 7+22.65
STA. 6+02.40 TO 6+53.50
STA. 17+34.17 TO 19+00
STA. 16+75 TO 19+00
STA. 15+25.80 TO 16+00
STA. 16+00 TO 16+75
STA. 11+40 TO 15+25.80
STA. 12+28.59 TO 16+00
LEFT SIDE
RIGHT SIDE
LEFT SIDE
RIGHT SIDE
TYPICAL SECTIONS
COLUMBIA AVENUE
N.T.S.
STA. 1+10 TO 2+32.99
STA. 1+10 TO 1+43
STA. 0+80 TO 1+10
STA. 0+47.92 TO 1+10
LEFT SIDE
TYPICAL SECTIONS N.T.S.
ARDMORE STREET
RIGHT SIDE
STEP RECONSTRUCTION DETAIL
STA. 9+45
N.T.S.
JOIN STEPS TO EXIST WALK WITH A SMOOTH TRANSITION
REMOVE EXIST. STEPS
EXIST FOC WALK
SAW CUT EXIST WALK
4" THICK CLASS 560-C-3250 CONC. STEPS
OPTIONAL CONC. LOAD
NOTE: CONST STEPS WITH 7" RISERS AND 10.5" RUNS, 2.5' WIDE TO MATCH EXISTING.
COLUMBIA
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
COLUMBIA AVENUE WIDENING
FWY 91 TO A.T. & S.F. R.R.
R-2278
SHEET 6 OF
ACCOUNT NO. 30-575-200-07
VERT. SCALE: 1"=2'