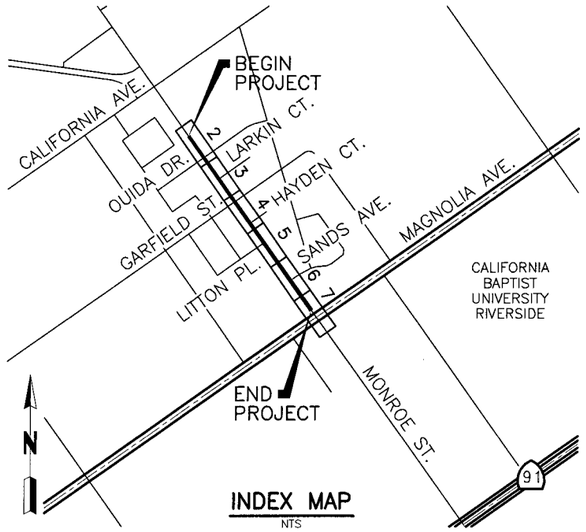
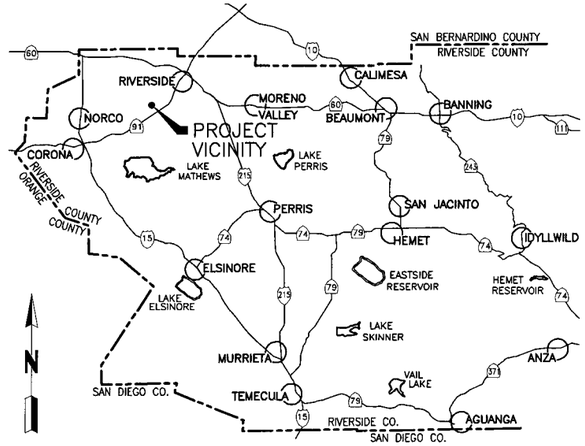
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT



INDEX MAP
NTS



VICINITY MAP
NTS

INDEX

R.C.F.C. & W.C.D. STANDARD DRAWINGS

JS 228	JUNCTION STRUCTURE NO. 3
MH 253	MANHOLE NO. 3
MH 256	MANHOLE FRAME & COVER PRESSURE TYPE
MH 259	STANDARD DROP STEP
TS 302	TRANSITION STRUCTURE NO. 2
TS 304	TRANSITION STRUCTURE NO. 4
BX 401	SINGLE CELL REINFORCEMENT CONCRETE BOX (STRUCTURAL DETAILS)
M 815	BEDDING AND PAY LINES

CITY OF RIVERSIDE STANDARD DRAWINGS

200	CURB AND GUTTER
325	SIDEWALK

CALTRANS STANDARD PLANS 2010

B7-11	UTILITY DETAILS
D80	CAST IN PLACE REINFORCED CONCRETE SINGLE BOX CULVERT

AMERICAN PUBLIC WORKS ASSOCIATION STANDARDS

390-0	PRECAST REINFORCED CONCRETE BOX

GENERAL NOTES

1. BEDDING AND PAYLINES ARE SHOWN ON RCFC&WCD STANDARD DRAWING M815 UNLESS SHOWN OTHERWISE ON THESE PLANS.
2. ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION.
3. ALL CHANNEL/STORM DRAIN REFERENCE AND CROSS SECTIONS ARE TAKEN LOOKING DOWNSTREAM.
4. TOPOGRAPHY BY DIGITAL PHOTOGRAMMETRIC METHODS. AERIAL PHOTOGRAPHS TAKEN AT AN ALTITUDE NOT TO EXCEED A FLYING HEIGHT TO CONTOUR INTERVAL RATIO OF 1800. PHOTOGRAPHY DATED 01/14/2010.
5. THE VERTICAL DATUM IS DERIVED FROM NAVD 88. THE HORIZONTAL DATUM IS DERIVED FORM NAD 83, CALIFORNIA COORDINATE SYSTEM (CCS), ZONE 6, AND EPOCH 2007.00.
6. STANDARD DRAWINGS CALLED FOR ON THE PLAN AND PROFILE SHALL CONFORM TO RCFC&WCD STANDARD DRAWINGS, OR CALTRANS/CITY/COUNTY STANDARD PLANS.
7. ELEVATIONS AND LOCATIONS OF UTILITIES ARE OBTAINED FROM AVAILABLE INFORMATION AND ARE SHOWN APPROXIMATELY ON THESE PLANS. 48 HOURS BEFORE EXCAVATION, CALL UNDERGROUND SERVICE ALERT AT 1 (800) 227-2600. ALL UTILITIES SHALL BE PROTECTED IN PLACE EXCEPT AS NOTED ON PLANS AND SPECIFICATIONS.
8. THE CONTRACTOR IS REQUIRED TO CONTACT ALL UTILITY AGENCIES REGARDING TEMPORARY SUPPORT AND SHORING REQUIREMENTS FOR THE VARIOUS UTILITY LINES SHOWN ON THESE PLANS.
9. ALL OPENINGS RESULTING FROM CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES, OR SIMILAR STRUCTURES TO BE ABANDONED, SHALL BE SEALED AT BOTH ENDS WITH 6" MINIMUM CLASS "B" CONCRETE.
10. UNLESS OTHERWISE SPECIFIED, MINIMUM STREET RECONSTRUCTION SHALL BE 4" TYPE "A" HOT MIX ASPHALT, OVER 6" CLASS 2 AGGREGATE BASE OR AS SPECIFIED BY THE ENGINEER.
11. ALL RECONSTRUCTION, RESURFACING AND PAVEMENT DELINEATION, CURBS, SIDEWALKS, AND OTHER IMPROVEMENTS ARE TO BE RECONSTRUCTED IN KIND AT THE SAME LOCATIONS AND ELEVATIONS AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
12. ⊕ INDICATES APPROXIMATE SOIL BORING LOCATION PER SOILS REPORT DATED 03/23/2012.
13. THE CONTRACTOR SHALL SECURE ALL REQUIRED ENCROACHMENT AND/OR STATE FEDERAL REGULATORY PERMITS PRIOR TO THE COMMENCEMENT OF ANY WORK.
14. THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2" OVER THE REINFORCING AND INCREASED TO A MINIMUM OF 3-1/2" OVER REINFORCING FOR BOX CULVERT, WHEN DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5,000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND F'C=6,000 PSI FOR VELOCITIES EXCEEDING 30 FEET PER SECOND.
15. CONSTRUCTION JOINTS FOR CALTRANS STANDARD REINFORCED CONCRETE BOX SHALL BE PLACED ACCORDING TO RCFC&WCD STANDARD DRAWING NO. BX401.
16. ALL EXISTING ITEMS SHOWN TO BE REMOVED SHALL BE REMOVED AND LEGALLY DISPOSED OF BY CONTRACTOR UNLESS NOTED OTHERWISE.
17. ALL EXISTING CURB AND CURB AND GUTTER SHALL BE PROTECTED IN PLACE (OR REPLACED IN LIKE KIND AS DIRECTED BY THE DISTRICT) UNLESS NOTED OTHERWISE.

ABBREVIATIONS

ABND	ABANDONED	O.C.	ON CENTER
AC	ASPHALT CONCRETE	PRCB	PRECAST REINFORCED CONCRETE BOX CULVERT
BC	BEGIN CURVE	RCB	CAST IN PLACE REINFORCED CONCRETE BOX CULVERT
BS	BOTTOM OF SIDEWALK	RT	RIGHT
CLR.	CLEAR	STA.	STATION
CLSM	CONTROLLED LOW STRENGTH MATERIAL	STD.	STANDARD
DIP	DUCTILE IRON PIPE	TC	TOP OF CURB
DWG.	DRAWING	TS	TRANSITION STRUCTURE
EC	END CURVE	TYP.	TYPICAL
FS	FINISHED SURFACE	VCP	VITRIFIED CLAY PIPE
GB	GRADE BREAK		
HGL	HYDRAULIC GRADE LINE		
INV.	INVERT		
JS	JUNCTION STRUCTURE		
LF	LINEAR FEET		
LT	LEFT		

CONSTRUCTION DRAWING SET DATED FEBRUARY 14, 2017

DWG. NO.: 371-8sg UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/23/17 PLOT TIME: 6:38AM PLOT SCALE: 1=1

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

CITY OF RIVERSIDE PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

SEAL—ENGINEER
REGISTERED PROFESSIONAL ENGINEER — JAMES B. BEALE — No. 73746 — CIVIL — STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 • 684 • 6900
APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

BENCHMARK:
Z-14019
3/4" IP W/ NAIL NO TAG DN. 0.3'
ELEV.: 760.11
NAD 83
NAVD 88

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: CHIEF OF DESIGN AND CONSTRUCTION DATE: 02/14/17
APPROVED BY: GENERAL MANAGER-CHIEF ENGINEER DATE: 02/14/17

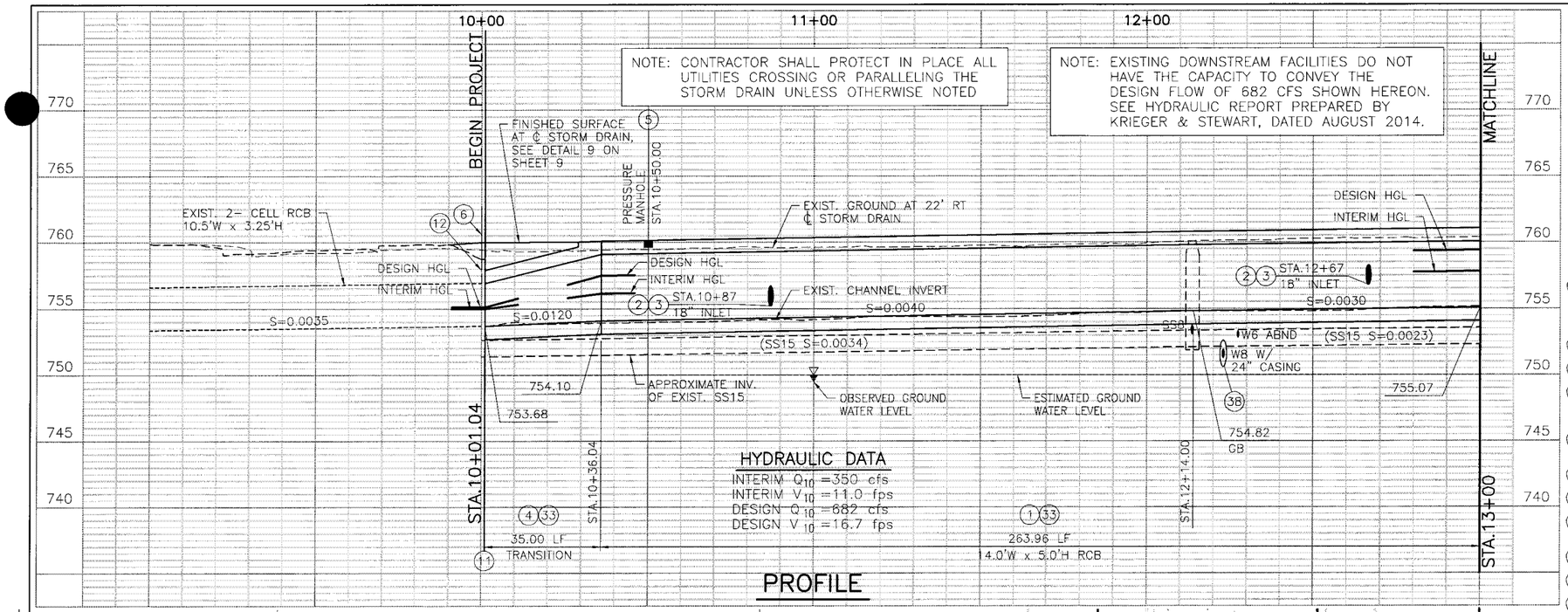
MONROE MDP
MONROE CHANNEL
STAGE 4

TITLE SHEET

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 1 of 17

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED

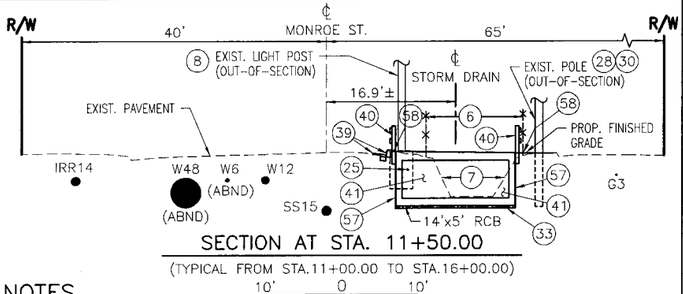
NOTE: EXISTING DOWNSTREAM FACILITIES DO NOT HAVE THE CAPACITY TO CONVEY THE DESIGN FLOW OF 682 CFS SHOWN HEREON. SEE HYDRAULIC REPORT PREPARED BY KRIEGER & STEWART, DATED AUGUST 2014.



HYDRAULIC DATA

INTERIM Q_{10} =350 cfs
INTERIM V_{10} =11.0 fps
DESIGN Q_{10} =682 cfs
DESIGN V_{10} =16.7 fps

PROFILE



SECTION AT STA. 11+50.00

(TYPICAL FROM STA.11+00.00 TO STA.16+00.00)

10' 0 10'

NOTES

(1) CONSTRUCT 14'x5' RCB PER CALTRANS STD. D80. FOR REINFORCEMENT AND WALL THICKNESS USE SPAN=14', HEIGHT=7', COVER=10' OR LESS. SLOPE TOP OF RCB PER DETAIL 6 ON SHEET 8. SOLID SHEET STEEL TRENCH SAFETY SYSTEM (1" MINIMUM THICKNESS) SHALL BE USED AND WILL BE THE OUTSIDE FORM FOR THE RCB.

(2) SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING 18" STORM DRAIN.

(3) CONSTRUCT JS No.3 PER STD. JS228.

(4) CONSTRUCT TS No.4 PER STD. TS304. FOR STEEL AND COVER REQUIREMENTS, ASSUME DOWNSTREAM RCB IS A DOUBLE RCB 12'Wx6'H PER CALTRANS STD. D81. CONSTRUCT CONCRETE STEP ON TOP OF TRANSITION PER DETAIL 9 ON SHEET 9.

(5) CONSTRUCT MANHOLE PER CALTRANS STD. B7-11, DETAIL U43 WITH PRESSURE TYPE MANHOLE FRAME AND COVER PER STD. MH256.

(6) REMOVE EXISTING FENCE.

(7) REMOVE EXISTING CONCRETE LINED CHANNEL.

(8) REMOVE EXISTING STREET LIGHT AND FOUNDATION. STREET LIGHT SHALL BE SALVAGED, AND DELIVERED AS DIRECTED BY CITY OF RIVERSIDE DEPARTMENT OF PUBLIC UTILITIES.

(11) CONNECT NEW TS TO EXISTING RCB PER DETAILS 2 AND 3 ON SHEET 8.

(12) REMOVE EXISTING PARAPET PER DETAIL 3 ON SHEET 8.

(13) EXISTING ABANDONED 2" WATER SERVICE. REMOVE AS REQUIRED TO CONSTRUCT STORM DRAIN.

(14) RECONSTRUCT EXISTING 8" SEWER PER DETAIL 1 ON SHEET 8.

(15) EXISTING ABANDONED 6" WATER. REMOVE AS REQUIRED TO CONSTRUCT STORM DRAIN.

(16) COORDINATE REMOVAL OF EXISTING IRRIGATION METER BY THE CITY OF RIVERSIDE FIELD FORCES. CONTACT THE WATER CONSTRUCTION SUPERINTENDENT 48 HOURS IN ADVANCE (951) 351-6368. EXISTING BACKFLOW PREVENTER TO BE REMOVED BY CONTRACTOR AND RETURNED TO CITY OF RIVERSIDE PUBLIC WORKS--LANDSCAPE DIVISION.

(17) PROTECT IN PLACE EXISTING IRRIGATION METER AND BACKFLOW PREVENTER. CONTACT THE WATER MAINTENANCE SUPERINTENDENT 48 HOURS IN ADVANCE FOR SERVICE DEACTIVATION AND REACTIVATION (951) 351-6384.

(18) REMOVE EXISTING IRRIGATION PIPING AND LEGALLY DISPOSE OFFSITE.

(19) REMOVE EXISTING IRRIGATION VALVE AND LEGALLY DISPOSE OFFSITE.

(23) REMOVE EXISTING LANDSCAPING AND LEGALLY DISPOSE OFFSITE.

(24) REMOVE EXISTING ELECTRICAL PULL BOX.

(25) REMOVE EXISTING ELECTRICAL CONDUIT AND CONDUCTORS AS SHOWN PER STREET LIGHT CONSTRUCTION DRAWING AND LEGALLY DISPOSE OFFSITE. REMOVE AS REQUIRED TO CONSTRUCT STORM DRAIN.

(28) PROTECT EXISTING POWER POLES IN PLACE IN ACCORDANCE WITH APPROVED RIVERSIDE PUBLIC UTILITIES (RPU) POWER POLE PROTECTION PLAN AND IMPLEMENTED BY CONTRACTOR.

(29) PROTECT EXISTING LIGHT BOOMS OVER PROPOSED STORM DRAIN IN PLACE.

(30) PROTECT EXISTING STREET LIGHTS AND POSTS IN PLACE.

(33) FURNISH AND INSTALL 4" OF FILTER MATERIAL BELOW STORM DRAIN AND IF GROUNDWATER CONDITION OCCURS, FURNISH AND INSTALL 9" OF FILTER MATERIAL BELOW STORM DRAIN AT DISCRETION OF ENGINEER.

(37) PROTECT LIGHT BOOMS OVER PROPOSED STORM DRAIN TO BE CONSTRUCTED BY RIVERSIDE PUBLIC UTILITIES. SEE STREET LIGHT CONSTRUCTION DRAWING.

(38) PROTECT EXISTING 8" WATER AND 24" STEEL CASING IN PLACE PER DETAIL 4 ON SHEET 8.

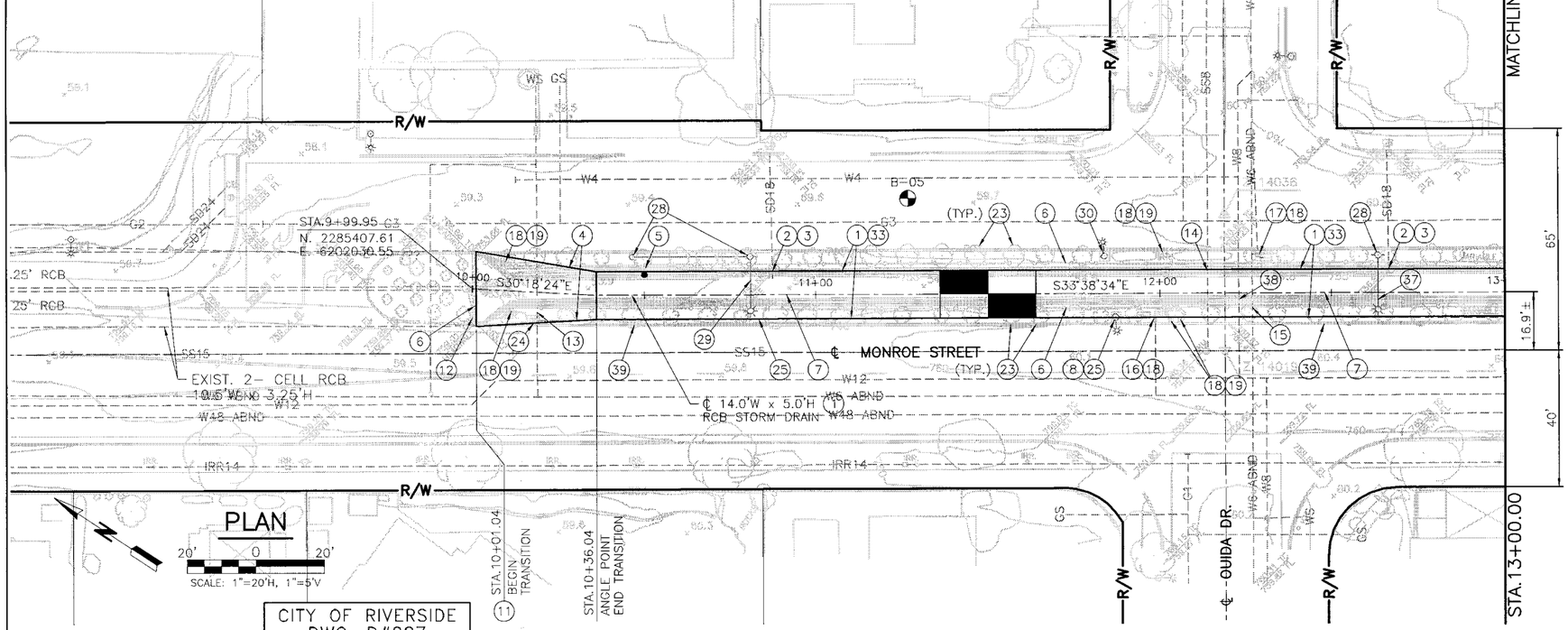
(39) CONCRETE CURB TO BE REMOVED AND RECONSTRUCTED PER SHEETS 10 THROUGH 12.

(40) PLASTIC SPLIT RAIL FENCE PER SHEETS 10 THROUGH 12.

(41) EXCAVATION PAY LIMIT PER DETAILS ON SHEET 8.

(57) BACKFILL VOID CREATED WITH WELL GRADED SAND PER SPECIFICATIONS UPON REMOVAL OF SOLID SHEET STEEL TRENCH SAFETY SYSTEM (STATION 10+00 TO STATION 17+12). SEE DETAIL 7 ON SHEET 8.

(58) BACKFILL PAY LIMITS PER DETAILS ON SHEET 8.



PLAN

20' 0 20'

SCALE: 1"=20'H, 1"=5'V

CITY OF RIVERSIDE
DWG. D#887

DIGALERT™ DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

SEAL—ENGINEER
REGISTERED PROFESSIONAL ENGINEER JAMES R. BEALE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 • 684 • 6900
APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
Z-14019
3/4" IP W/ NAIL NO TAG DN. 0.3'
ELEV.: 760.11
NAD 83
NAVD 88

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

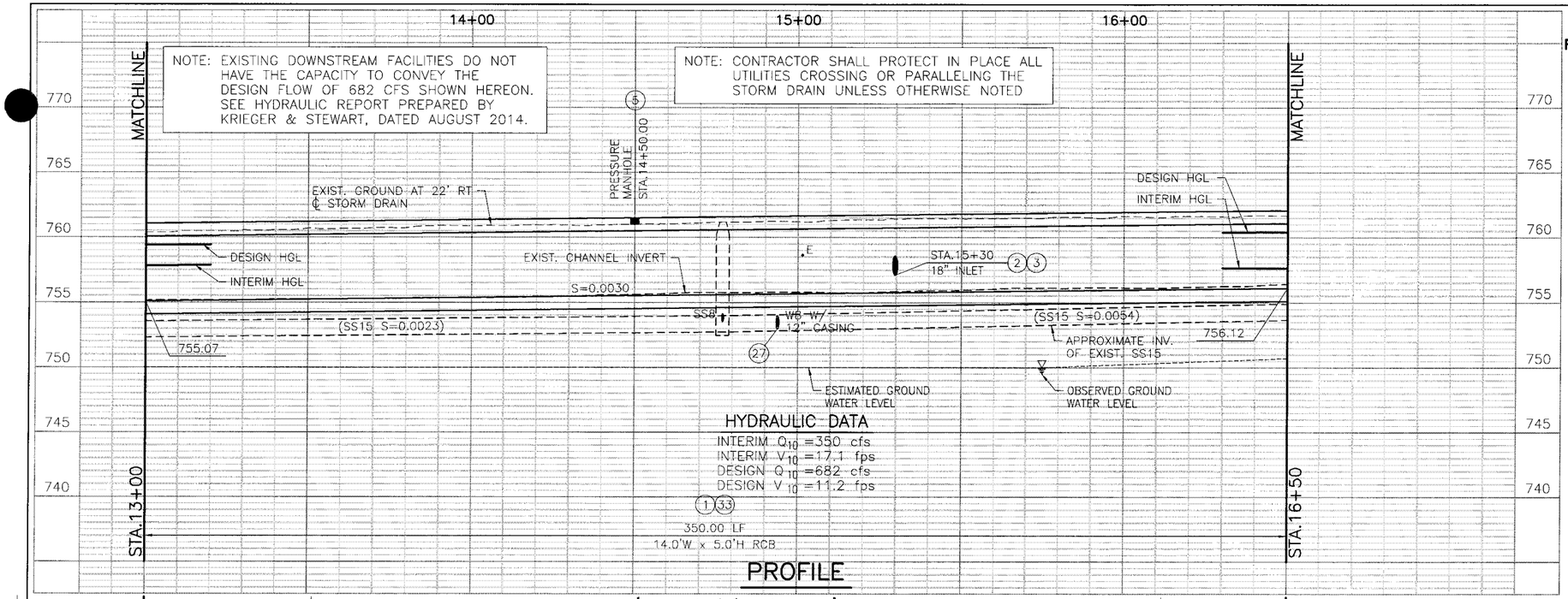
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

MONROE MDP
MONROE CHANNEL
STAGE 4

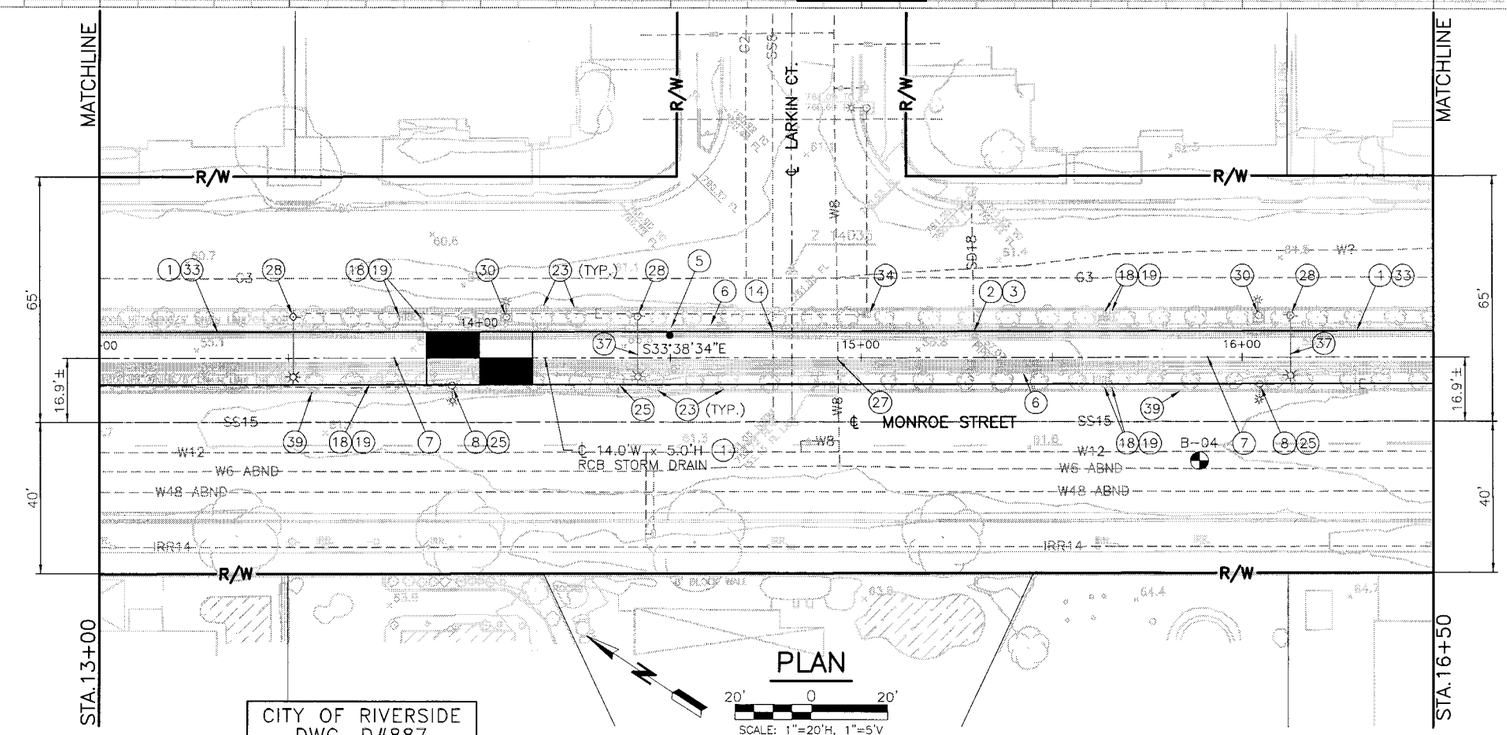
STA. 9+99.95 TO STA. 13+00

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 2 of 17

DWG. NO.: 371-8 | E NO.: 371-8 | UPDATE BY: MRN | PROJ. ENG.: JRB | PLOT DATE: 02/23/17 | PLOT TIME: 11:54AM | PLOT SCALE: 1=1

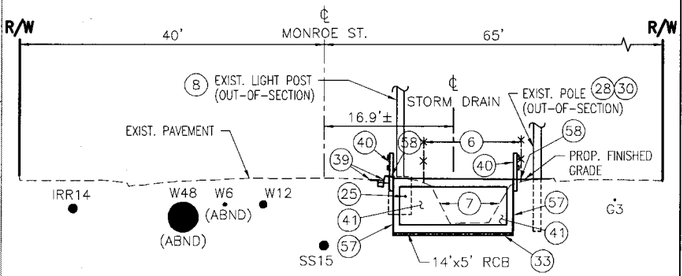


PROFILE



PLAN

SCALE: 1"=20'H, 1"=5'V



SECTION AT STA. 14+00.00

(TYPICAL FROM STA.11+00.00 TO STA.16+00.00)

10' 0 10'

NOTES

(1) CONSTRUCT 14'x5' RCB PER CALTRANS STD. D80. FOR REINFORCEMENT AND WALL THICKNESS USE SPAN=14', HEIGHT=7', COVER=10' OR LESS. SLOPE TOP OF RCB PER DETAIL 6 ON SHEET 8. SOLID SHEET STEEL TRENCH SAFETY SYSTEM (1" MINIMUM THICKNESS) SHALL BE USED AND WILL BE THE OUTSIDE FORM FOR THE RCB.

(2) SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING 18" STORM DRAIN.

(3) CONSTRUCT JS No.3 PER STD. JS228.

(5) CONSTRUCT MANHOLE PER CALTRANS STD. B7-11, DETAIL U43 WITH PRESSURE TYPE MANHOLE FRAME AND COVER PER STD. MH256.

(6) REMOVE EXISTING FENCE.

(7) REMOVE EXISTING CONCRETE LINED CHANNEL.

(8) REMOVE EXISTING STREET LIGHT AND FOUNDATION. STREET LIGHT SHALL BE SALVAGED, AND DELIVERED AS DIRECTED BY CITY OF RIVERSIDE DEPARTMENT OF PUBLIC UTILITIES.

(14) RECONSTRUCT EXISTING 8" SEWER PER DETAIL 1 ON SHEET 8.

(18) REMOVE EXISTING IRRIGATION PIPING AND LEGALLY DISPOSE OFFSITE.

(19) REMOVE EXISTING IRRIGATION VALVE AND LEGALLY DISPOSE OFFSITE.

(23) REMOVE EXISTING LANDSCAPING AND LEGALLY DISPOSE OFFSITE.

(25) REMOVE EXISTING ELECTRICAL CONDUIT AND CONDUCTORS AS SHOWN PER STREET LIGHT CONSTRUCTION DRAWING AND LEGALLY DISPOSE OFFSITE. REMOVE AS REQUIRED TO CONSTRUCT STORM DRAIN.

(27) PROTECT EXISTING 8" WATERLINE IN 12" STEEL CASING IN PLACE PER DETAIL 4 ON SHEET 8.

(28) PROTECT EXISTING POWER POLES IN PLACE IN ACCORDANCE WITH APPROVED RIVERSIDE PUBLIC UTILITIES (RPU) POWER POLE PROTECTION PLAN AND IMPLEMENTED BY CONTRACTOR.

(30) PROTECT EXISTING STREET LIGHTS AND POSTS IN PLACE.

(33) FURNISH AND INSTALL 4" OF FILTER MATERIAL BELOW STORM DRAIN AND IF GROUNDWATER CONDITION OCCURS, FURNISH AND INSTALL 9" OF FILTER MATERIAL BELOW STORM DRAIN AT DISCRETION OF ENGINEER.

(34) PROTECT EXISTING ELECTRICAL PULL BOX IN PLACE.

(37) PROTECT LIGHT BOOMS OVER PROPOSED STORM DRAIN TO BE CONSTRUCTED BY RIVERSIDE PUBLIC UTILITIES. SEE STREET LIGHT CONSTRUCTION DRAWING.

(39) CONCRETE CURB TO BE REMOVED AND RECONSTRUCTED PER SHEETS 10 THROUGH 12.

(40) PLASTIC SPLIT RAIL FENCE PER SHEETS 10 THROUGH 12.

(41) EXCAVATION PAY LIMIT PER DETAILS ON SHEET 8.

(57) BACKFILL VOID CREATED WITH WELL GRADED SAND PER SPECIFICATIONS UPON REMOVAL OF SOLID SHEET STEEL TRENCH SAFETY SYSTEM (STATION 10+00 TO STATION 17+12). SEE DETAIL 7 ON SHEET 8.

(58) BACKFILL PAY LIMITS PER DETAILS ON SHEET 8.

DWG. NO.: 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/23/17 PLOT TIME: 11:55AM PLOT SCALE: 1=1

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

CITY OF RIVERSIDE PUBLIC WORKS

APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER

DATE 02/14/17

SEAL—ENGINEER: REGISTERED PROFESSIONAL ENGINEER JAMES R. BEALE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants

3602 University Avenue • Riverside, CA 92501

www.kriegerandstewart.com • 951-684-6900

APPROVED BY

REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
Z-14035
"PK" NAIL
ELEV.: 761.20
NAD 83
NAVD 88

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17

APPROVED BY: DATE: 02/14/17

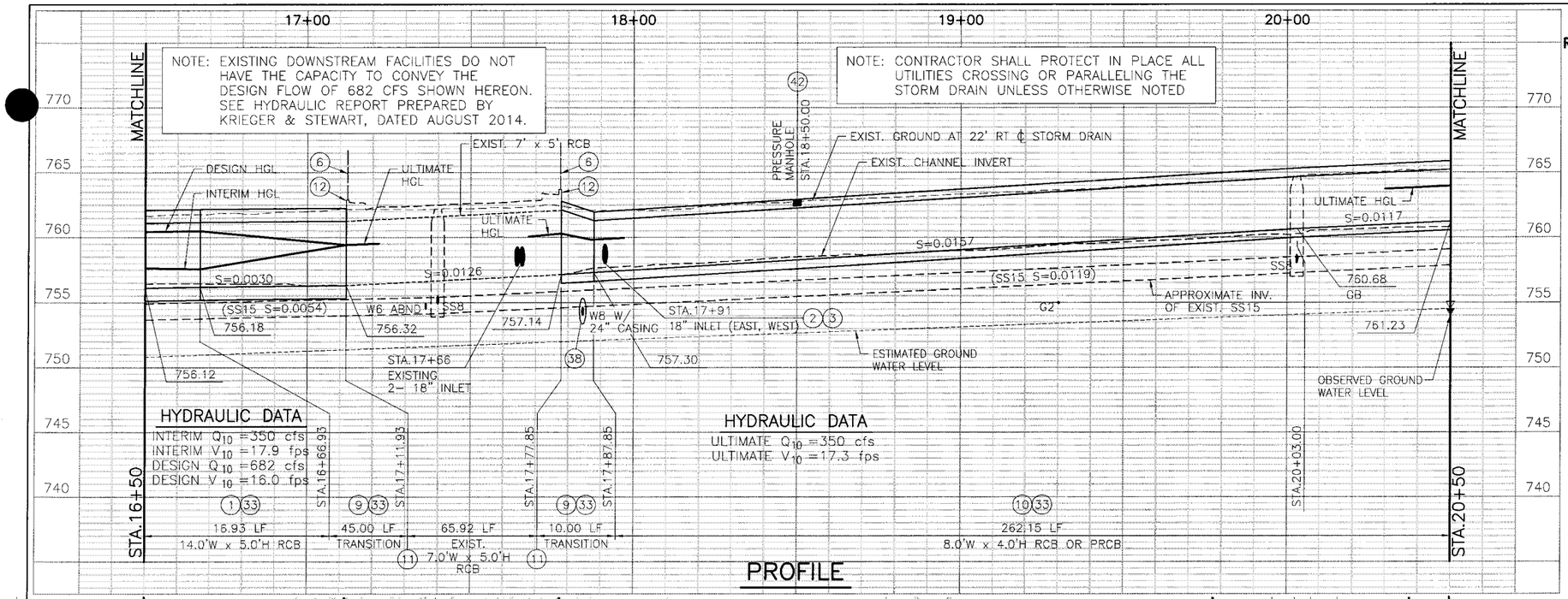
MONROE MDP
MONROE CHANNEL
STAGE 4

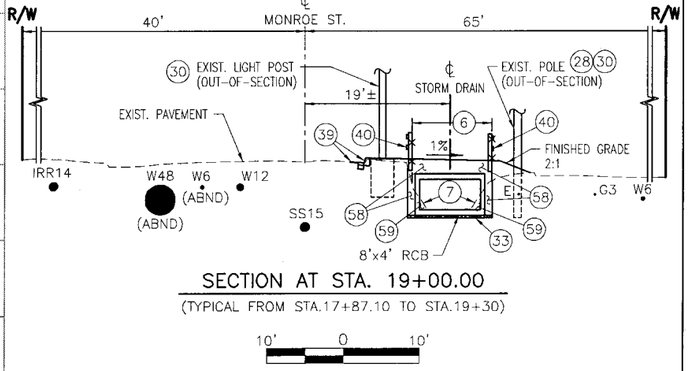
STA. 13+00 TO STA. 16+50

Project No. 1-0-00071-04

Drawing No. 1-0719

Sheet 3 of 17





SECTION AT STA. 19+00.00

(TYPICAL FROM STA.17+87.10 TO STA.19+30)

10' 0 10'

NOTES

(1) CONSTRUCT 14'x5' RCB PER CALTRANS STD. D80. FOR REINFORCEMENT AND WALL THICKNESS USE SPAN=14', HEIGHT=7', COVER=10' OR LESS. SLOPE TOP OF RCB PER DETAIL 6 ON SHEET 8. SOLID SHEET STEEL TRENCH SAFETY SYSTEM (1" MINIMUM THICKNESS) SHALL BE USED AND WILL BE THE OUTSIDE FORM FOR THE RCB.

(2) SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING 18" STORM DRAIN.

(3) CONSTRUCT JS No.3 PER STD. JS228.

(6) REMOVE EXISTING FENCE.

(7) REMOVE EXISTING CONCRETE LINED CHANNEL.

(9) CONSTRUCT TS No.2 PER STD. TS302. MATCH RCB DECK THICKNESS AND SLOPE.

(10) CONSTRUCT 8'x4' RCB PER CALTRANS STD. D80. FOR REINFORCEMENT AND WALL THICKNESS USE SPAN=8', HEIGHT=4', COVER=10' OR LESS, OR CONSTRUCT 8'W x 4'H PRCB PER APWA STD. No. 390-0 WITH 2.5" STEEL COVER AND EARTH COVER OF 0'-2' FOR STEEL SCHEDULE.

(11) CONNECT NEW TS TO EXISTING RCB PER DETAILS 2 AND 3 ON SHEET 8.

(12) REMOVE EXISTING PARAPET PER DETAIL 3 ON SHEET 8.

(18) REMOVE EXISTING IRRIGATION PIPING AND LEGALLY DISPOSE OFFSITE.

(19) REMOVE EXISTING IRRIGATION VALVE AND LEGALLY DISPOSE OFFSITE.

(21) PROTECT EXISTING 2" GAS LINE IN PLACE.

(23) REMOVE EXISTING LANDSCAPING AND LEGALLY DISPOSE OFFSITE.

(25) REMOVE EXISTING ELECTRICAL CONDUIT AND CONDUCTORS AS SHOWN PER STREET LIGHT CONSTRUCTION DRAWING AND LEGALLY DISPOSE OFFSITE. REMOVE AS REQUIRED TO CONSTRUCT STORM DRAIN.

(28) PROTECT EXISTING POWER POLES IN PLACE IN ACCORDANCE WITH APPROVED RIVERSIDE PUBLIC UTILITIES (RPU) POWER POLE PROTECTION PLAN AND IMPLEMENTED BY CONTRACTOR.

(30) PROTECT EXISTING STREET LIGHTS AND POSTS IN PLACE.

(33) FURNISH AND INSTALL 4" OF FILTER MATERIAL BELOW STORM DRAIN AND IF GROUNDWATER CONDITION OCCURS, FURNISH AND INSTALL 9" OF FILTER MATERIAL BELOW STORM DRAIN AT DISCRETION OF ENGINEER.

(35) PROTECT EXISTING SIGN IN PLACE.

(38) PROTECT EXISTING 8" WATER AND 24" STEEL CASING IN PLACE PER DETAIL 4 ON SHEET 8.

(39) CONCRETE CURB TO BE REMOVED AND RECONSTRUCTED PER SHEETS 10 THROUGH 12.

(40) PLASTIC SPLIT RAIL FENCE PER SHEETS 10 THROUGH 12.

(42) CONSTRUCT PRESSURE MH No.3 PER STD. MH253, MH256, AND MH258. TOP OF MANHOLE COVER AND FRAME PER STD. MH256 SHALL BE FLUSH WITH PROPOSED FINISHED GRADE.

(58) BACKFILL PAY LIMITS PER DETAILS ON SHEET 8.

(59) EXCAVATION PAY LIMIT PER DETAILS ON SHEET 8.

DWG NO.: 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/23/17 PLOT TIME: 11:59AM PLOT SCALE: 1=1

DIGALERT DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

SEAL—ENGINEER

CITY OF RIVERSIDE PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

REGISTERED PROFESSIONAL ENGINEER JAMES R. BURKE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 • 684 • 6900
APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
Z-14027
"PK" NAIL, DN 0.2'
ELEV.: 762.92
NAD 83
NAVD 88

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

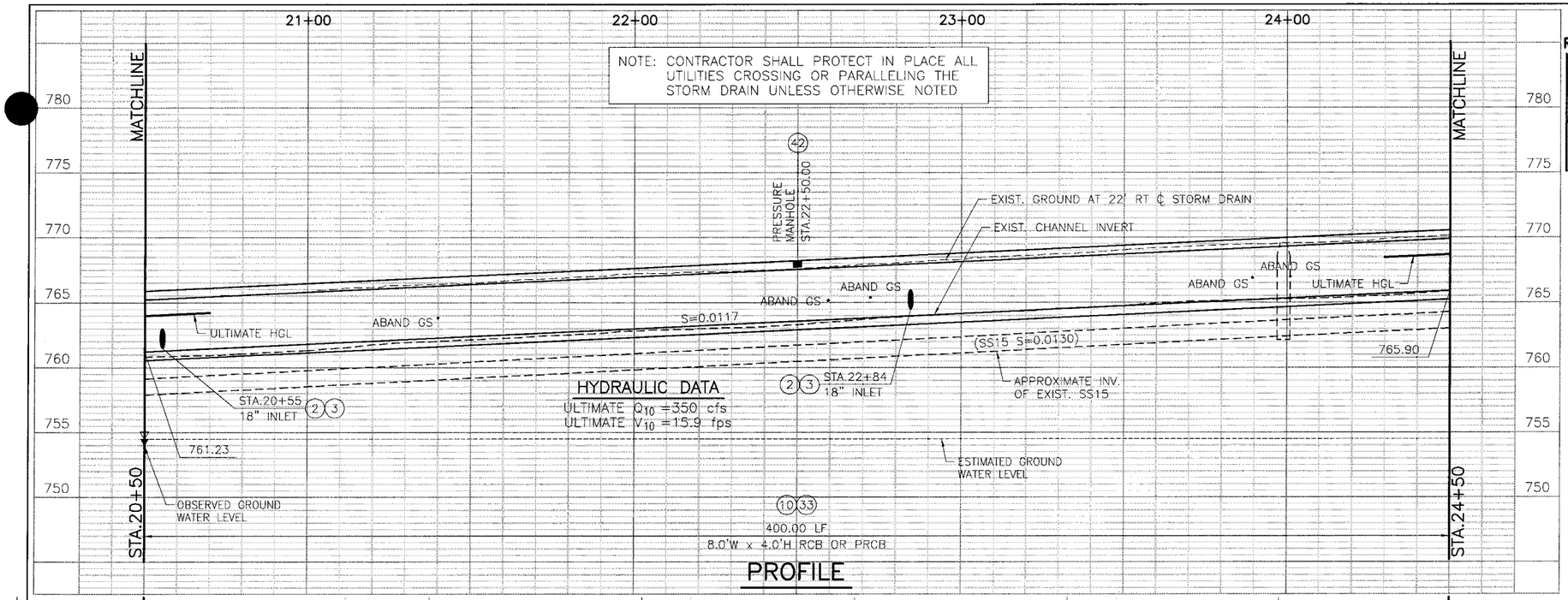
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

MONROE MDP
MONROE CHANNEL
STAGE 4

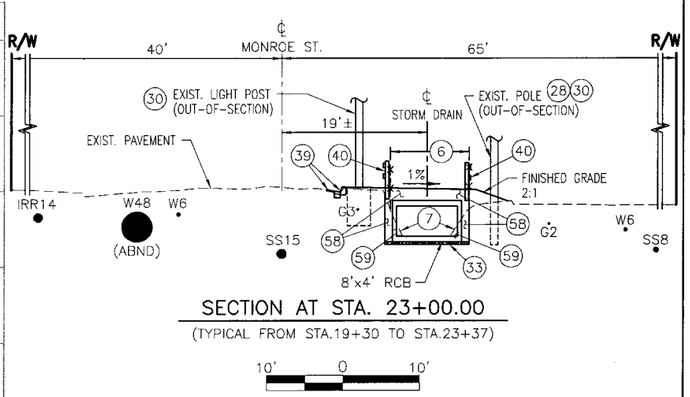
STA. 16+50 TO STA. 20+50

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 4 of 17

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED



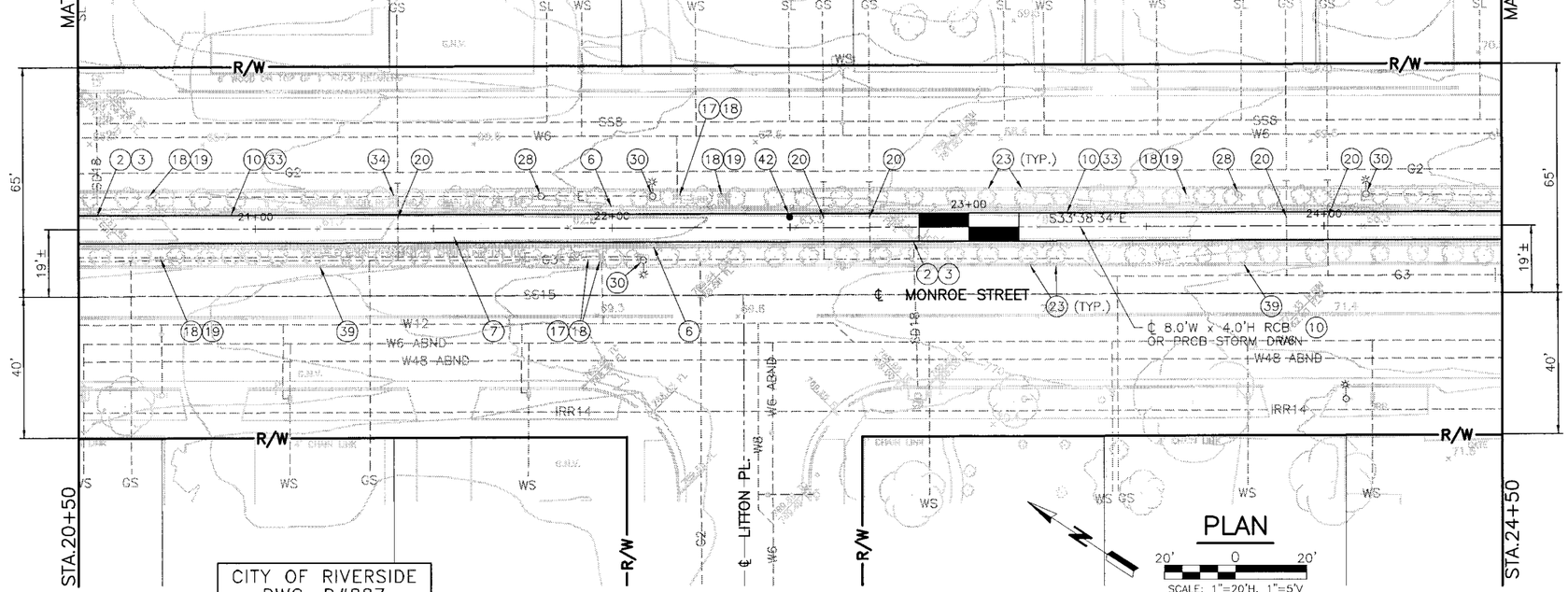
PROFILE



SECTION AT STA. 23+00.00

(TYPICAL FROM STA.19+30 TO STA.23+37)

10' 0 10'



PLAN

20' 0 20'

SCALE: 1"=20'H, 1"=5'V

NOTES

(2) SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING 18" STORM DRAIN.

(3) CONSTRUCT JS No.3 PER STD. JS228.

(6) REMOVE EXISTING FENCE.

(7) REMOVE EXISTING CONCRETE LINED CHANNEL.

(10) CONSTRUCT 8'x4' RCB PER CALTRANS STD. D80. FOR REINFORCEMENT AND WALL THICKNESS USE SPAN=8', HEIGHT=4', COVER=10' OR LESS, OR CONSTRUCT 8'W x 4'H PRCB PER APWA STD. No. 390-0 WITH 2.5" STEEL COVER AND EARTH COVER OF 0'-2' FOR STEEL SCHEDULE.

(17) PROTECT IN PLACE EXISTING IRRIGATION METER AND BACKFLOW PREVENTER. CONTACT THE WATER MAINTENANCE SUPERINTENDENT 48 HOURS IN ADVANCE FOR SERVICE DEACTIVATION AND REACTIVATION (951) 351-6384.

(18) REMOVE EXISTING IRRIGATION PIPING AND LEGALLY DISPOSE OFFSITE.

(19) REMOVE EXISTING IRRIGATION VALVE AND LEGALLY DISPOSE OFFSITE.

(20) EXISTING ABANDONED GAS SERVICE. REMOVE AS REQUIRED TO CONSTRUCT STORM DRAIN.

(23) REMOVE EXISTING LANDSCAPING AND LEGALLY DISPOSE OFFSITE.

(28) PROTECT EXISTING POWER POLES IN PLACE IN ACCORDANCE WITH APPROVED RIVERSIDE PUBLIC UTILITIES (RPU) POWER POLE PROTECTION PLAN AND IMPLEMENTED BY CONTRACTOR.

(30) PROTECT EXISTING STREET LIGHTS AND POSTS IN PLACE.

(33) FURNISH AND INSTALL 4" OF FILTER MATERIAL BELOW STORM DRAIN AND IF GROUNDWATER CONDITION OCCURS, FURNISH AND INSTALL 9" OF FILTER MATERIAL BELOW STORM DRAIN AT DISCRETION OF ENGINEER.

(34) PROTECT EXISTING ELECTRICAL PULL BOX IN PLACE.

(35) PROTECT EXISTING SIGN IN PLACE.

(39) CONCRETE CURB TO BE REMOVED AND RECONSTRUCTED PER SHEETS 10 THROUGH 12.

(40) PLASTIC SPLIT RAIL FENCE PER SHEETS 10 THROUGH 12.

(42) CONSTRUCT PRESSURE MH No.3 PER STD. MH253, MH256, AND MH258. TOP OF MANHOLE COVER AND FRAME PER STD. MH256 SHALL BE FLUSH WITH PROPOSED FINISHED GRADE.

(58) BACKFILL PAY LIMITS PER DETAILS ON SHEET 8.

(59) EXCAVATION PAY LIMIT PER DETAILS ON SHEET 8.

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

CITY OF RIVERSIDE PUBLIC WORKS

APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER

DATE 02/14/17

SEAL—ENGINEER: REGISTERED PROFESSIONAL ENGINEER JAMES R. BEALE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants

3602 University Avenue • Riverside, CA 92501

www.kriegerandstewart.com • 951 • 684 • 6900

APPROVED BY

REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK: SEE SHEET 4

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17

APPROVED BY: DATE: 02/14/17

MONROE MDP
MONROE CHANNEL
STAGE 4

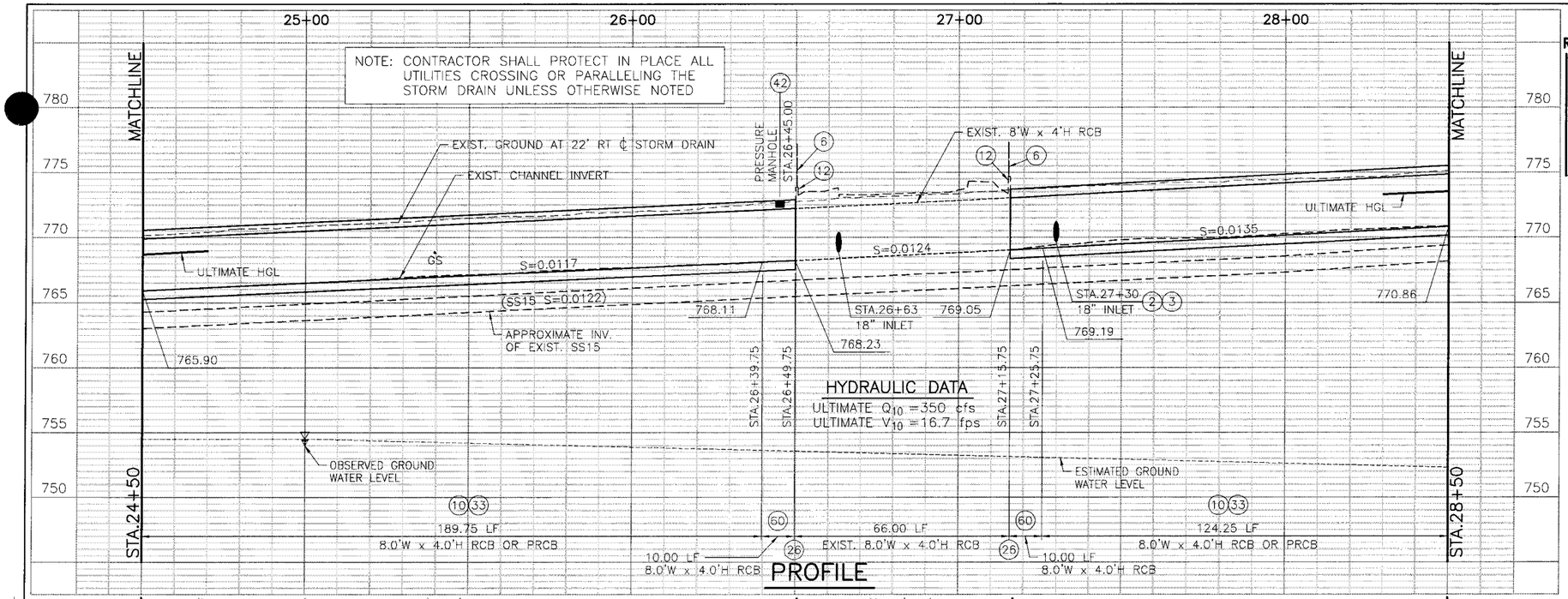
STA. 20+50 TO STA. 24+50

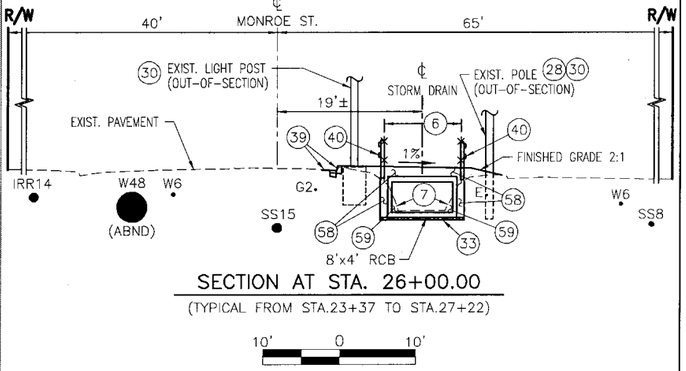
Project No. 1-0-00071-04

Drawing No. 1-0719

Sheet 5 of 17

DWG. NO.: 371-8 SE NO.: 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/23/17 PLOT TIME: 11:58AM PLOT SCALE: 1=1

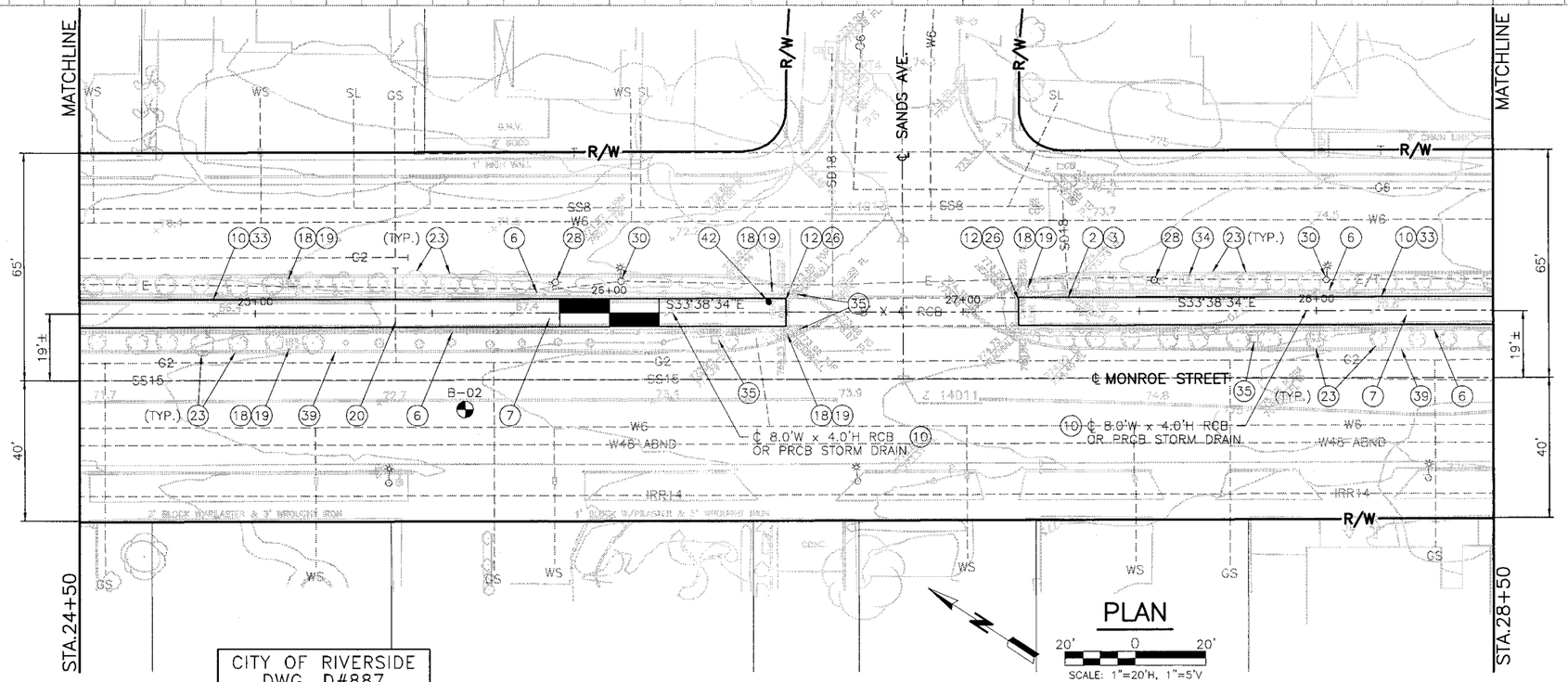




SECTION AT STA. 26+00.00

(TYPICAL FROM STA.23+37 TO STA.27+22)

10' 0 10'



PLAN

20' 0 20'

SCALE: 1"=20'H, 1"=5'V

NOTES

(2) SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING 18" STORM DRAIN.

(3) CONSTRUCT JS No.3 PER STD. JS228.

(6) REMOVE EXISTING FENCE.

(7) REMOVE EXISTING CONCRETE LINED CHANNEL.

(10) CONSTRUCT 8'x4' RCB PER CALTRANS STD. D80. FOR REINFORCEMENT AND WALL THICKNESS USE SPAN=8', HEIGHT=4', COVER=10' OR LESS, OR CONSTRUCT 8'W x 4'H PRCB PER APWA STD. No. 390-0 WITH 2.5" STEEL COVER AND EARTH COVER OF 0'-2' FOR STEEL SCHEDULE.

(12) REMOVE EXISTING PARAPET PER DETAIL 3 ON SHEET 8.

(18) REMOVE EXISTING IRRIGATION PIPING AND LEGALLY DISPOSE OFFSITE.

(19) REMOVE EXISTING IRRIGATION VALVE AND LEGALLY DISPOSE OFFSITE.

(20) EXISTING ABANDONED GAS SERVICE. REMOVE AS REQUIRED TO CONSTRUCT STORM DRAIN.

(23) REMOVE EXISTING LANDSCAPING AND LEGALLY DISPOSE OFFSITE.

(26) CONNECT NEW RCB TO EXISTING RCB PER DETAILS 2 AND 3 ON SHEET 8.

(28) PROTECT EXISTING POWER POLES IN PLACE IN ACCORDANCE WITH APPROVED RIVERSIDE PUBLIC UTILITIES (RPU) POWER POLE PROTECTION PLAN AND IMPLEMENTED BY CONTRACTOR.

(30) PROTECT EXISTING STREET LIGHTS AND POSTS IN PLACE.

(33) FURNISH AND INSTALL 4" OF FILTER MATERIAL BELOW STORM DRAIN AND IF GROUNDWATER CONDITION OCCURS, FURNISH AND INSTALL 9" OF FILTER MATERIAL BELOW STORM DRAIN AT DISCRETION OF ENGINEER.

(34) PROTECT EXISTING ELECTRICAL PULL BOX IN PLACE.

(35) PROTECT EXISTING SIGN IN PLACE.

(39) CONCRETE CURB TO BE REMOVED AND RECONSTRUCTED PER SHEETS 10 THROUGH 12.

(40) PLASTIC SPLIT RAIL FENCE PER SHEETS 10 THROUGH 12.

(42) CONSTRUCT PRESSURE MH No.3 PER STD. MH253, MH256, AND MH258. TOP OF MANHOLE COVER AND FRAME PER STD. MH256 SHALL BE FLUSH WITH PROPOSED FINISHED GRADE.

(58) BACKFILL PAY LIMITS PER DETAILS ON SHEET 8.

(59) EXCAVATION PAY LIMIT PER DETAILS ON SHEET 8.

(60) FOR THE PRCB OPTION, CONSTRUCT AN 8'W x 4'H RCB PER CALTRANS STD. D80 TO TRANSITION FROM EXISTING RCB WITHOUT HAUNCHES TO THE PRCB WITH HAUNCHES. FOR REINFORCEMENT AND WALL THICKNESS USE SPAN=8', HEIGHT=4', COVER=10' OR LESS.

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

CITY OF RIVERSIDE PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

SEAL—ENGINEER
REGISTERED PROFESSIONAL ENGINEER JAMES R. BEALE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951-684-6900
APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
Z-14011
SPIKE W/ RIV CITY ENGR WASHER, FLUSH
ELEV.: 773.88
NAD 83
NAVD 88

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

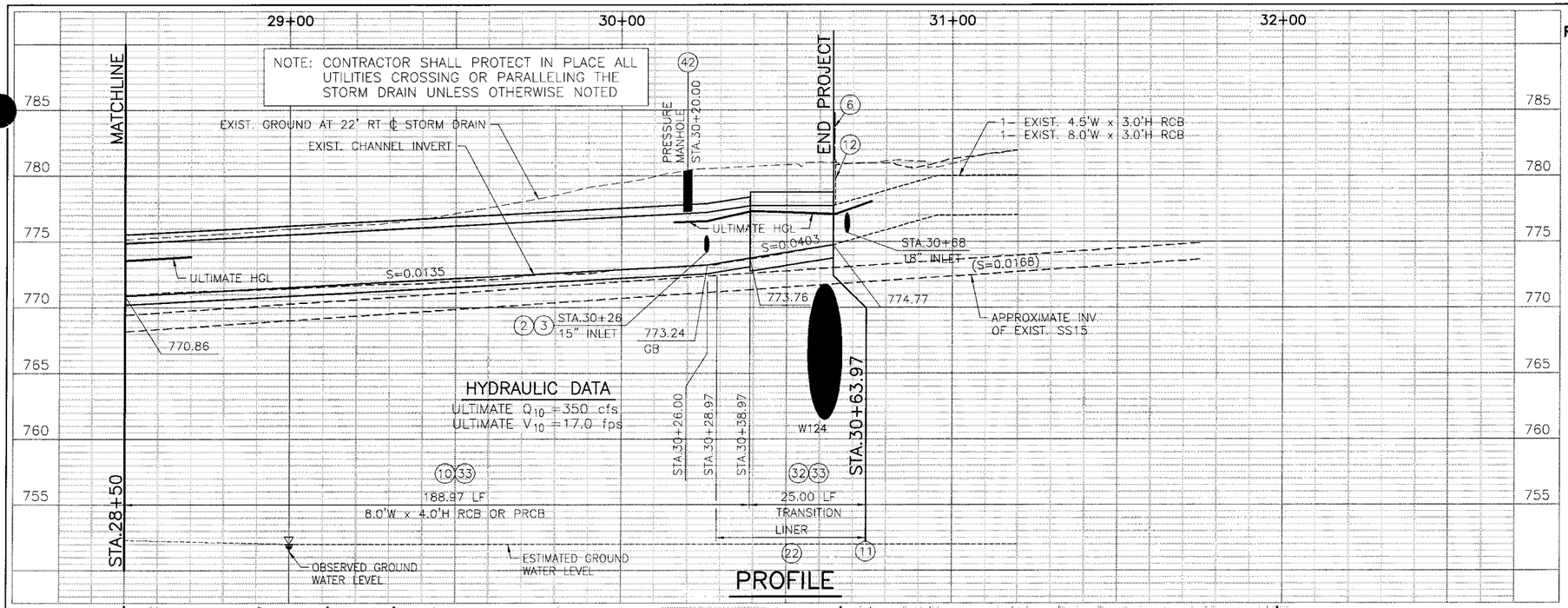
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

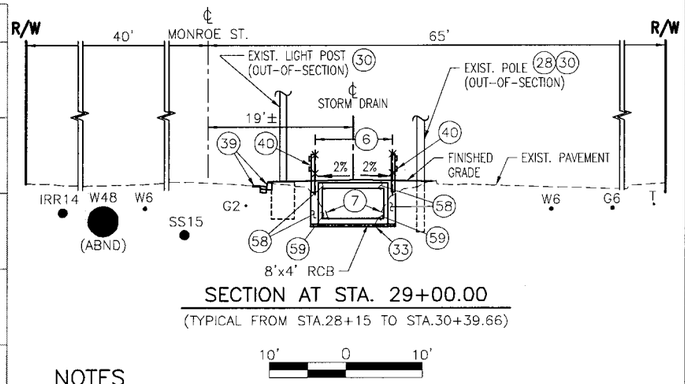
MONROE MDP
MONROE CHANNEL
STAGE 4

STA. 24+50 TO STA. 28+50

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 6 of 17

DWG. NO. 371-8 (UPDATE BY: MRN PROJ. ENG: JRB PLOT DATE: 02/23/17 PLOT TIME: 12:09PM PLOT SCALE: 1=1





SECTION AT STA. 29+00.00

(TYPICAL FROM STA.28+15 TO STA.30+39.66)

10' 0 10'

NOTES

(2) SAWCUT AND REMOVE INTERFERING PORTION OF EXISTING 18" STORM DRAIN.

(3) CONSTRUCT JS No.3 PER STD. JS228.

(6) REMOVE EXISTING FENCE.

(7) REMOVE EXISTING CONCRETE LINED CHANNEL.

(10) CONSTRUCT 8'x4' RCB PER CALTRANS STD. D80. FOR REINFORCEMENT AND WALL THICKNESS USE SPAN=8', HEIGHT=4', COVER=10' OR LESS, OR CONSTRUCT 8'W x 4'H PRCB PER APWA STD. No. 390-0 WITH 2.5" STEEL COVER AND EARTH COVER OF 0'-2' FOR STEEL SCHEDULE.

(11) CONNECT NEW TS TO EXISTING RCB PER DETAILS 2 AND 3 ON SHEET 8.

(12) REMOVE EXISTING PARAPET PER DETAIL 3 ON SHEET 8.

(17) PROTECT IN PLACE EXISTING IRRIGATION METER AND BACKFLOW PREVENTER. CONTACT THE WATER MAINTENANCE SUPERINTENDENT 48 HOURS IN ADVANCE FOR SERVICE DEACTIVATION AND REACTIVATION (951) 351-6384.

(18) REMOVE EXISTING IRRIGATION PIPING AND LEGALLY DISPOSE OFFSITE.

(19) REMOVE EXISTING IRRIGATION VALVE AND LEGALLY DISPOSE OFFSITE.

(22) CONSTRUCT LINER PER DETAIL 5 ON SHEET 8.

(23) REMOVE EXISTING LANDSCAPING AND LEGALLY DISPOSE OFFSITE.

(28) PROTECT EXISTING POWER POLES IN PLACE IN ACCORDANCE WITH APPROVED RIVERSIDE PUBLIC UTILITIES (RPU) POWER POLE PROTECTION PLAN AND IMPLEMENTED BY CONTRACTOR.

(30) PROTECT EXISTING STREET LIGHTS AND POSTS IN PLACE.

(31) PROTECT EXISTING TRAFFIC SIGNAL FACILITIES IN PLACE.

(32) CONSTRUCT TS No.2 PER STD. TS302. FOR STEEL AND COVER REQUIREMENTS, ASSUME UPSTREAM RCB IS A 14'x7'H RCB PER CALTRANS STD. D80.

(33) FURNISH AND INSTALL 4" OF FILTER MATERIAL BELOW STORM DRAIN AND IF GROUNDWATER CONDITION OCCURS, FURNISH AND INSTALL 9" OF FILTER MATERIAL BELOW STORM DRAIN AT DISCRETION OF ENGINEER.

(34) PROTECT EXISTING ELECTRICAL PULL BOX IN PLACE.

(35) PROTECT EXISTING SIGN IN PLACE.

(36) PROTECT EXISTING MWD FACILITIES IN PLACE. EQUIPMENT USE RESTRICTED TO LESS THAN AASHTO H-10 IF COVER OVER MWD FACILITY IS REDUCED TO BETWEEN 2' AND 4'. HAND EQUIPMENT ONLY IF COVER OVER MWD FACILITY IS REDUCED TO LESS THAN 2'. NOTIFY JOHN OSORNIA OF MWD WATER SYSTEM OPERATIONS GROUP AT (951) 710-5570 AT LEAST 2 WORKING DAYS PRIOR TO STARTING ANY WORK IN THE VICINITY OF MWD FACILITIES.

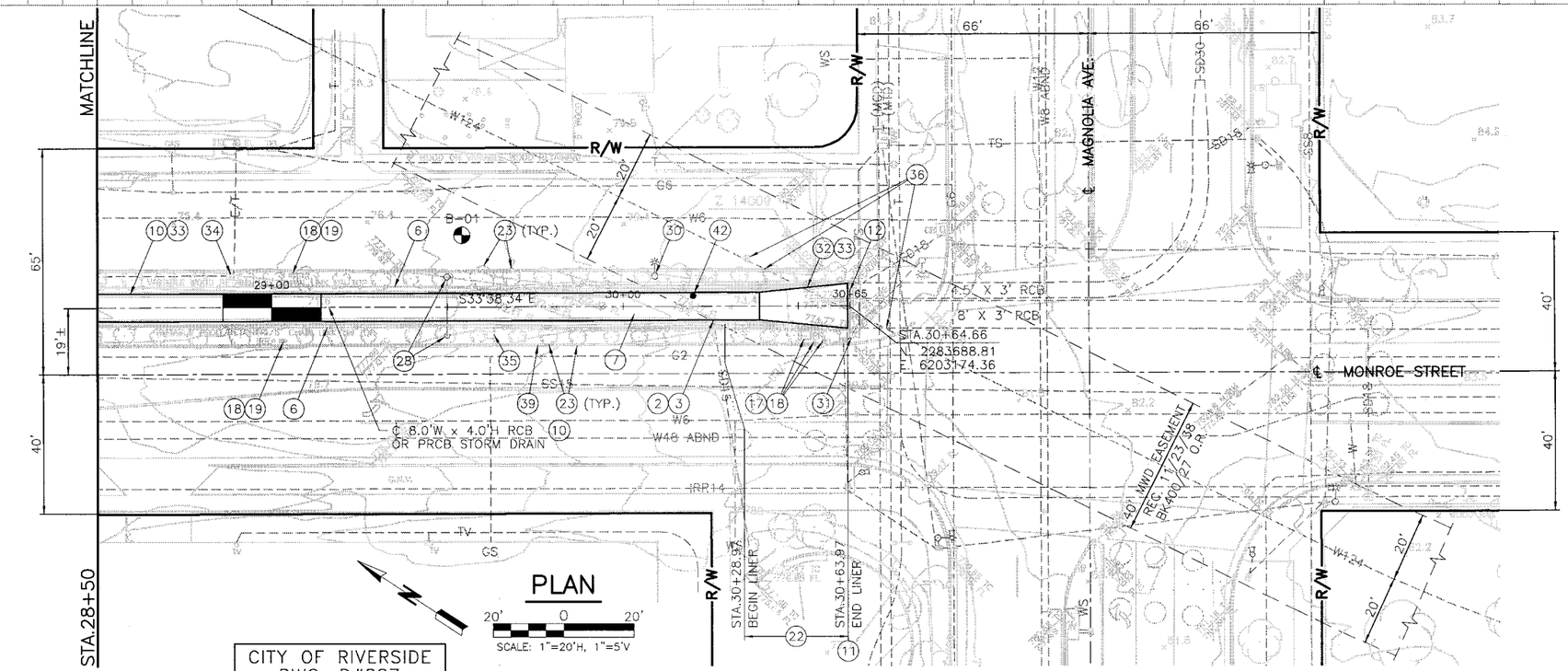
(39) CONCRETE CURB TO BE REMOVED AND RECONSTRUCTED PER SHEETS 10 THROUGH 12.

(40) PLASTIC SPLIT RAIL FENCE PER SHEETS 10 THROUGH 12.

(42) CONSTRUCT PRESSURE MH No.3 PER STD. MH253, MH256, AND MH258. TOP OF MANHOLE COVER AND FRAME PER STD. MH256 SHALL BE FLUSH WITH PROPOSED FINISHED GRADE.

(58) BACKFILL PAY LIMITS PER DETAILS ON SHEET 8.

(59) EXCAVATION PAY LIMIT PER DETAILS ON SHEET 8.



CITY OF RIVERSIDE
DWG. D#887

SEAL-ENGINEER

DIGALERT℠ DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE
PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

REGISTERED PROFESSIONAL ENGINEER JAMES R. BEALE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 • 684 • 6900
APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
Z-14009
"PK" NAIL, FLUSH
ELEV.: 780.67
NAD 83
NAVD 88

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

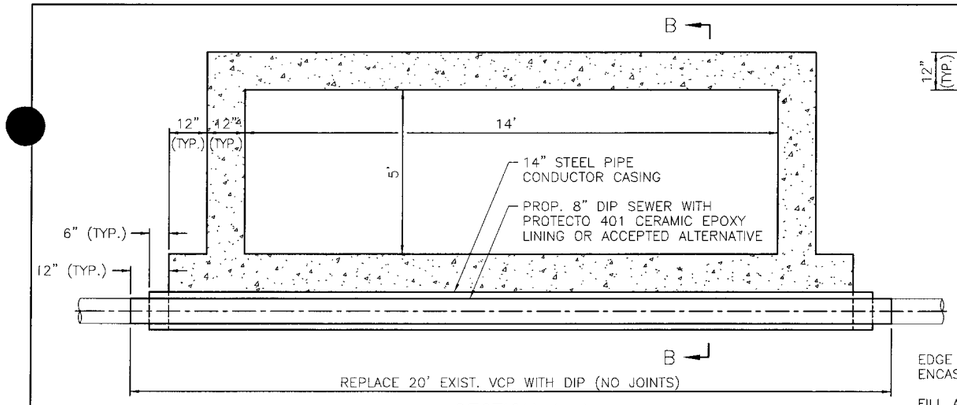
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

MONROE MDP
MONROE CHANNEL
STAGE 4

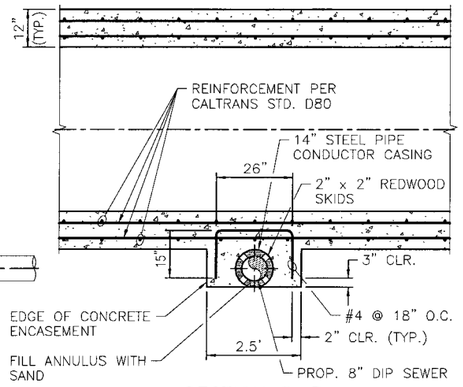
STA. 28+50 TO STA. 30+64.66

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 7 of 17

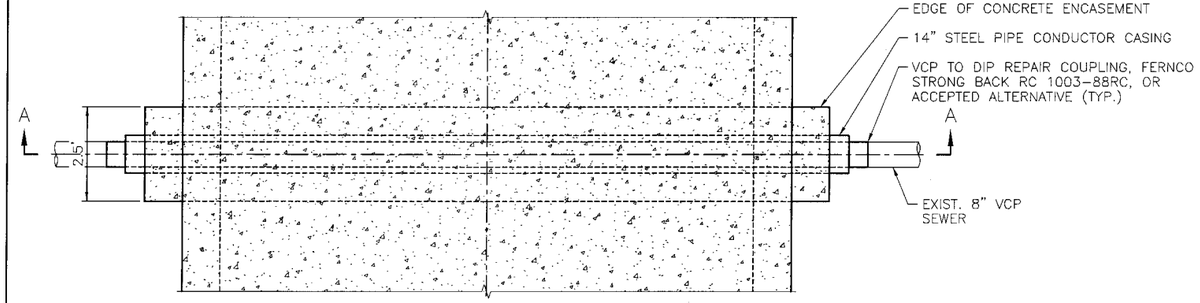
DWG. NO.: 371-8s ENG. NO.: 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/23/17 PLOT TIME: 12:05PM PLOT SCALE: 1-1



SECTION A–A



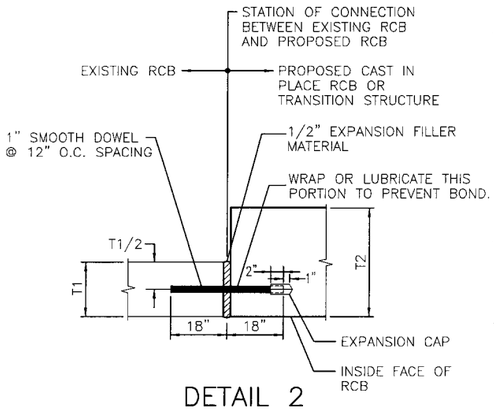
SECTION B–B



PLAN

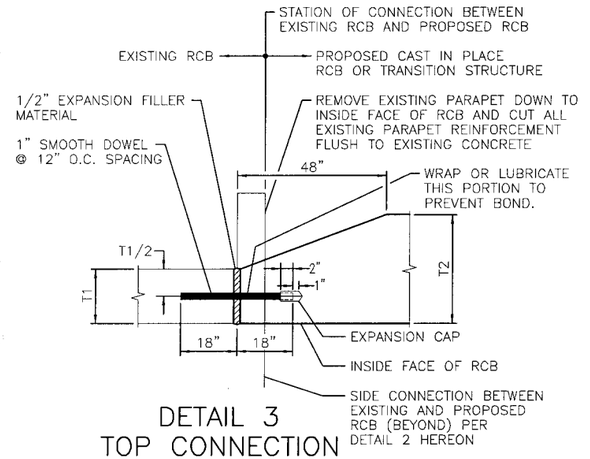
DETAIL 1
RECONSTRUCTION OF EXISTING 8" VCP SEWER
AT STATION 12+14 AND STATION 14+77

NTS



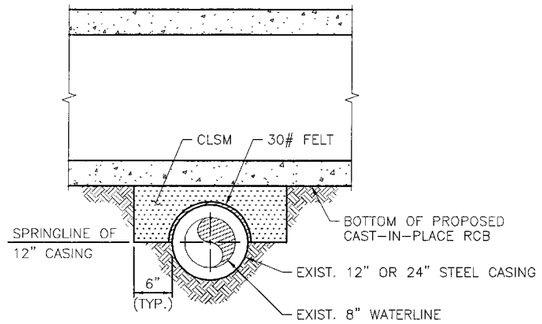
DETAIL 2
BOTTOM AND SIDE CONNECTION TO EXISTING RCB

NTS



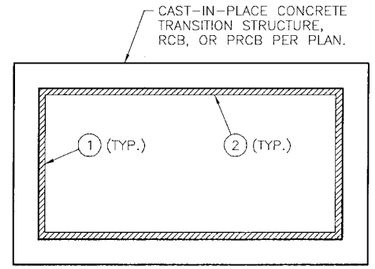
DETAIL 3
TOP CONNECTION TO EXISTING RCB

NTS



DETAIL 4
PROTECTION OF EXISTING 8" WATERLINE
AT STATIONS 12+23, 14+94, AND 17+85

NTS

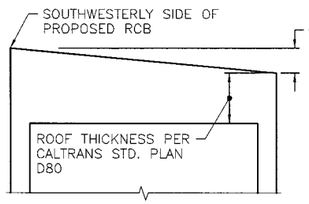


DETAIL 5 NOTES

1. CIM 1000 TG BY C.I.M. INDUSTRIES, INC., OR TUFCHEM II MEMBRANE (TROWEL GRADE) BY CORROSION ENGINEERING. FINAL MINIMUM DRY FILM THICKNESS SHALL BE 125 MILS.
2. PRIOR TO APPLICATION OF COATING MATERIAL, ALL SURFACES SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. ALL MIXING AND COATING APPLICATION SHALL BE PERFORMED IN THE PRESENCE OF THE DISTRICT.

DETAIL 5
INSTALLATION OF LINER
STATION 30+28.97 TO STATION 30+63.97

NTS

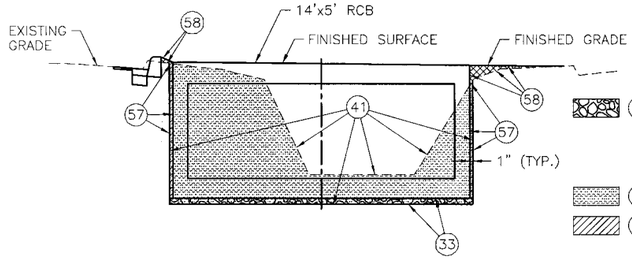


NOTE

VIEW LOOKING DOWNSTREAM

DETAIL 6
SLOPE TOP OF RCB
STATION 10+36.04 TO STATION 17+11.93

NTS

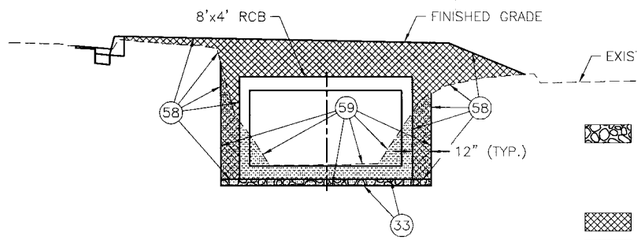


DETAIL 7 NOTES

- (33) FURNISH AND INSTALL 4" OF FILTER MATERIAL BELOW STORM DRAIN AND IF GROUNDWATER CONDITION OCCURS, FURNISH AND INSTALL 9" OF FILTER MATERIAL BELOW STORM DRAIN AT DISCRETION OF ENGINEER.
- (41) EXCAVATION PAY LIMIT.
- (57) BACKFILL VOID CREATED WITH WELL GRADED SAND PER SPECIFICATIONS UPON REMOVAL OF SOLID SHEET STEEL TRENCH SAFETY SYSTEM (STATION 10+00 TO STATION 17+12).
- (58) BACKFILL PAY LIMITS PER SPECIFICATIONS.

DETAIL 7
EXCAVATION AND BACKFILL PAYLINE LIMITS
STATION 10+01.04 TO STATION 17+11.93

NTS



DETAIL 8 NOTES

- (33) FURNISH AND INSTALL 4" OF FILTER MATERIAL BELOW STORM DRAIN AND IF GROUNDWATER CONDITION OCCURS, FURNISH AND INSTALL 9" OF FILTER MATERIAL BELOW STORM DRAIN AT DISCRETION OF ENGINEER.
- (58) BACKFILL PAY LIMITS PER SPECIFICATIONS.
- (59) EXCAVATION PAY LIMIT.

DETAIL 8
EXCAVATION AND BACKFILL PAYLINE LIMITS
STATION 17+77.85 TO STATION 30+63.97

NTS

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

CITY OF RIVERSIDE PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

SEAL–ENGINEER: REGISTERED PROFESSIONAL ENGINEER, JAMES R. BEALE, No. 73746, CIVIL, STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 - 684 - 6900
APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

BENCHMARK: NONE

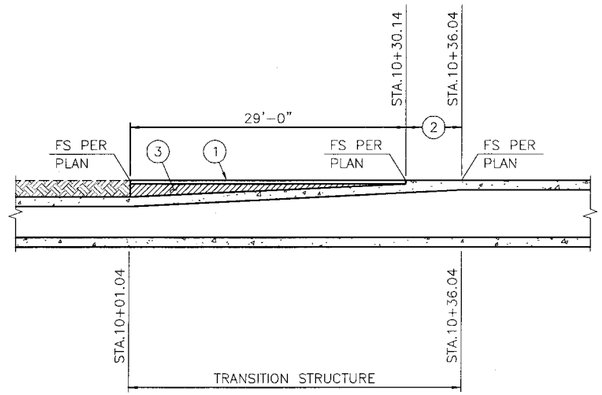
REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

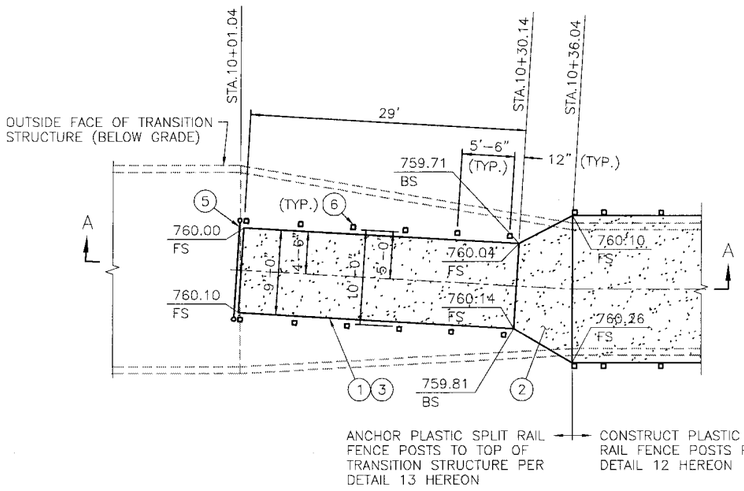
MONROE MDP
MONROE CHANNEL
STAGE 4
MISCELLANEOUS DETAILS AND PAYLINE LIMITS

Project No. 1–0–00071–04
Drawing No. 1–0719
Sheet 8 of 17

DWG. NO.: 371–8 | F NO.: 371–8 | UPDATE BY: MRN | PROJ. ENG.: JRB | PLOT DATE: 02/15/17 | PLOT TIME: 3:05PM | PLOT SCALE: 1=1



SECTION A–A



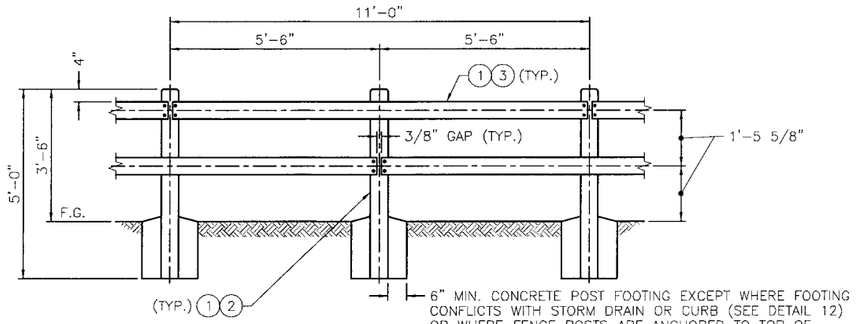
PLAN

DETAIL 9 NOTES

1. CONSTRUCT 4" THICK CONCRETE SIDEWALK PER CITY OF RIVERSIDE STD. DWG. No.325.
2. INCREASE THICKNESS OF CONCRETE ROOF OF TRANSITION STRUCTURE AS REQUIRED TO PRODUCE FS ELEVATIONS BETWEEN STA.10+30.14 AND STA.10+36.04.
3. CONSTRUCT CLSM BACKFILL BETWEEN TOP OF TRANSITION AND BOTTOM OF SIDEWALK.
4. MEDIAN CURB AND GUTTER OMITTED FOR CLARITY.
5. CONSTRUCT 6' TALL CHAIN LINK FENCE BARRICADE PER HEADWALL FENCE ASSEMBLY DETAIL ON STD. M801 AND DETAIL 11 HEREON.
6. CONSTRUCT PLASTIC SPLIT RAIL FENCE PER DETAIL 10 HEREON.

DETAIL 9
TRANSITION STRUCTURE AND CONCRETE SIDEWALK DETAIL

SCALE: 1/8"=1'-0"

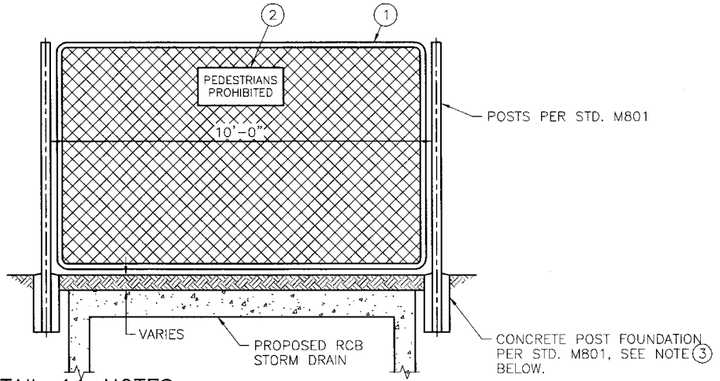


DETAIL 10 NOTES

1. FENCE SHALL BE "SIERRA" 2–RAIL FENCE BY ENVIRONMENTAL SPECIALTY PRODUCTS, OR APPROVED EQUAL.
2. 5 1/2"x5 1/2"x5'–0" POSTS, NON–STRUCTURAL PLASTIC LUMBER. 1/2" CHAMFERED TOP (ALL SIDES). 1/2" DEEP SADDLE CUT TO RECEIVE RAILS (TRAIL SIDE OF POST), 9/16" DIA. HOLE, WITH 1 1/4" DIA.x3/4" DEEP COUNTERSINK (REVERSE SIDE OF POST).
   FLEXURAL STRENGTH – D6109–97 1355
   FLEXURAL MODULUS – D6109–97 95039
   MOISTURE ABSORPTION – 0.06
3. 1 1/2"x5 1/2"x11'–0" RAIL, STRUCTURAL PLASTIC LUMBER. FASTEN WITH 2– 1/2" DIA. 6" LONG HOT DIPPED GALVANIZED BOLTS WITH WASHER. ALL HOLES TO BE 5/8 O.D., DRILLED IN FIELD BY OTHERS. GAP BETWEEN BUTTING RAILS SHALL BE 3/8" (5/8" TO ALLOW FOR EXPANSION/CONTRACTION).
   FLEXURAL STRENGTH – D6109–97 2750
   FLEXURAL MODULUS – D6109–97 306080
   THERMAL EXPANSION – D6341–98 0.000033 INCH/INCH/DEG. °F

DETAIL 10
PLASTIC SPLIT RAIL FENCE

SCALE: 1/2"=1'-0"

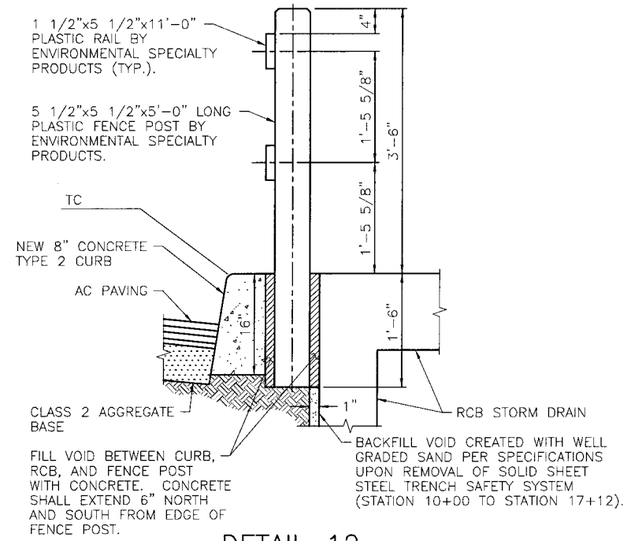


DETAIL 11 NOTES

1. 6' TALL CHAIN LINK FENCE PER HEADWALL ASSEMBLY FENCE DETAIL ON STD. M801
2. R5–10C "PEDESTRIANS PROHIBITED" SIGN PER CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION
3. DEPTH OF CONCRETE POST FOUNDATION WILL BE 1'–9" FOR BARRICADE CALLED OUT IN DETAIL 9 HEREON. AT THIS LOCATION, BOTTOM OF FOUNDATION WILL BE LIMITED BY THE TOP OF THE TRANSITION STRUCTURE.

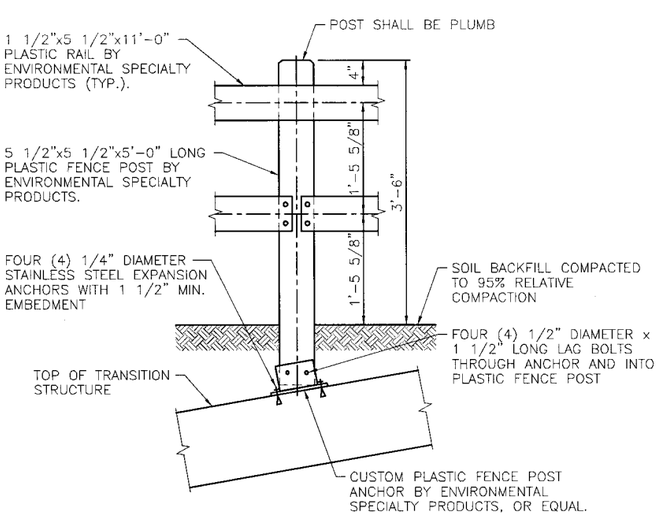
DETAIL 11
6 FOOT TALL CHAIN LINK RAIL FENCE BARRICADE

SCALE: 1/2"=1'-0"



DETAIL 12
PLASTIC SPLIT RAIL FENCE POST BETWEEN CURB AND STORM DRAIN
STATION 10+36.04 TO STATION 16+97.15

SCALE: 1"=1'-0"



DETAIL 13
PLASTIC SPLIT RAIL FENCE POST ANCHOR TO TOP OF TRANSITION STRUCTURE
STATION 10+01.04 TO STATION 10+30.14

SCALE: 1"=1'-0"

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

CITY OF RIVERSIDE PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

SEAL–ENGINEER: REGISTERED PROFESSIONAL ENGINEER JAMES R. BEALE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 • 684 • 6900
APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

BENCHMARK: NONE

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

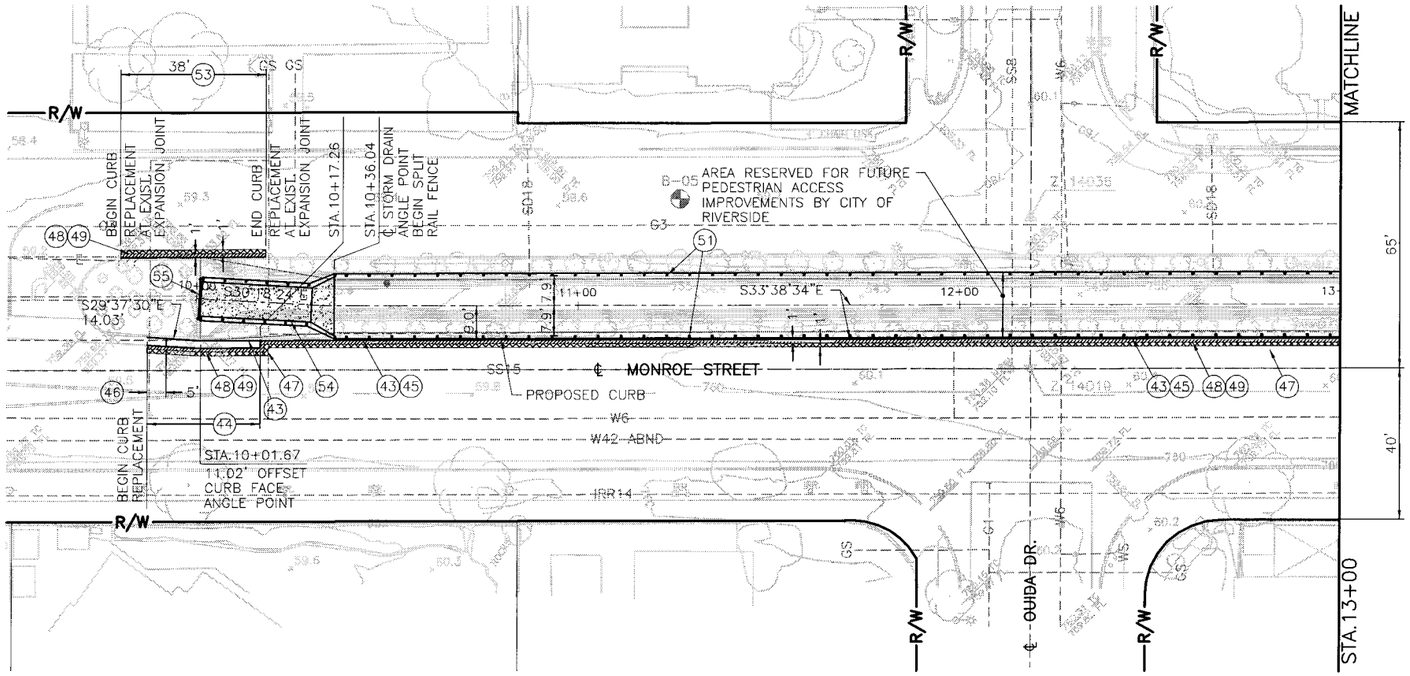
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

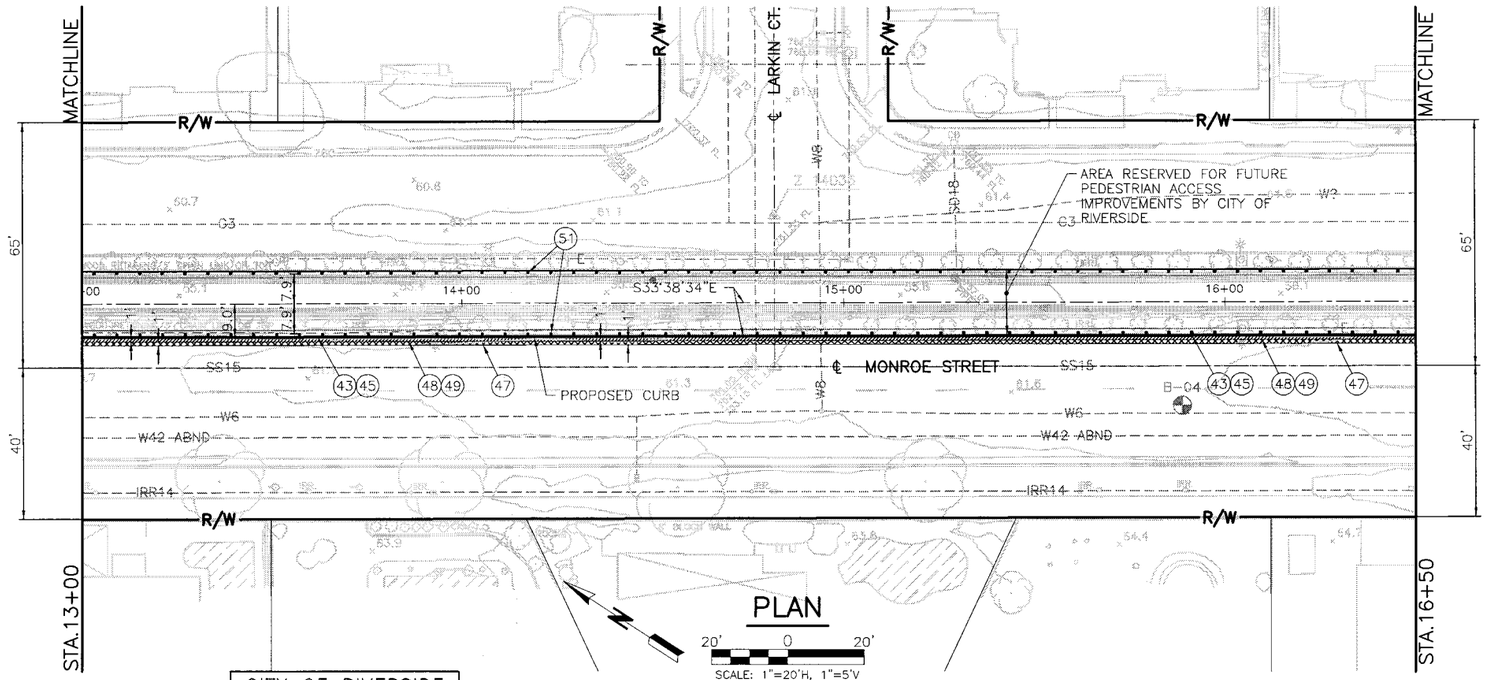
MONROE MDP
MONROE CHANNEL
STAGE 4

MISCELLANEOUS DETAILS

Project No. 1–0–00071–04
Drawing No. 1–0719
Sheet 9 of 17

DWG. NO.: 371–8 E NO.: 371–8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/23/17 PLOT TIME: 8:51AM PLOT SCALE: 1=1

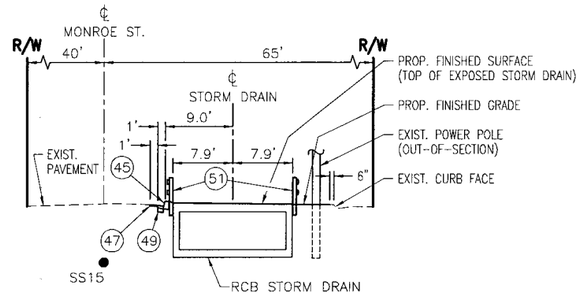




PLAN

20' 0 20'

SCALE: 1"=20'H, 1"=5'V



SECTION AT STA. 11+50.00

(TYPICAL FROM STA.10+36.04 TO STA.16+67.68)

10' 0 10'

NOTES

(43) SAWCUT, REMOVE AND LEGALLY DISPOSE OF EXISTING CONCRETE CURB AND GUTTER, AND EXISTING CONCRETE CURB ONLY.

(44) CONSTRUCT TYPE 1 CURB AND GUTTER WITH 8" CURB FACE PER CITY OF RIVERSIDE STD. DWG. No.200.

(45) CONSTRUCT 8" TYPE II CURB ONLY PER CITY OF RIVERSIDE STD. DWG. No.200.

(46) TRANSITION FROM EXISTING TOP OF CURB TO PROPOSED 8" HIGH CURB FACE.

(47) GRIND EXISTING AC PAVING ONE FOOT WIDE AND PLACE 0.125' ASPHALT CONCRETE OVERLAY TO MEET EXISTING FINISH SURFACE.

(48) SAWCUT, REMOVE, AND LEGALLY DISPOSE OF EXISTING AC PAVING.

(49) CONSTRUCT 6" TYPE "A" HOT MIX ASPHALT OVER 6" CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.

(51) CONSTRUCT PLASTIC SPLIT RAIL FENCE PER DETAIL 10 ON SHEET 9.

(53) CONSTRUCT TYPE II CURB ONLY PER CITY OF RIVERSIDE STD. DWG. No.200. HEIGHT OF CURB SHALL MATCH HEIGHT OF EXISTING CURB AT BEGINNING AND END OF CURB REPLACEMENT.

(54) CONSTRUCT TRANSITION STRUCTURE, CONCRETE SIDEWALK, PLASTIC SPLIT RAIL FENCE, AND PLASTIC SPLIT RAIL FENCE BARRICADE PER DETAIL 9 ON SHEET 9.

(55) CONSTRUCT 6 FOOT TALL CHAIN LINK FENCE BARRICADE PER DETAIL 11 ON SHEET 9.

LEGEND

SAWCUT AND REMOVE EXISTING AC PAVING (48) AND CONSTRUCT NEW AC PAVING. (49)

0.125' GRIND AND OVERLAY AREA. (47)

CITY OF RIVERSIDE
DWG. D#887

SEAL-ENGINEER

REGISTERED PROFESSIONAL ENGINEER JAMES R. BERGET No. 73746 CIVIL STATE OF CALIFORNIA

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE
PUBLIC WORKS

APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE: 02/14/17

KRIEGER & STEWART
Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 • 684 • 6900

APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
Z-14019
3/4" IP W/ NAIL NO TAG DN. 0.3'
ELEV.: 760.11
NAD 83
NAVD 88

REF.	DESCRIPTION	APPR.	DATE

REVISIONS

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17

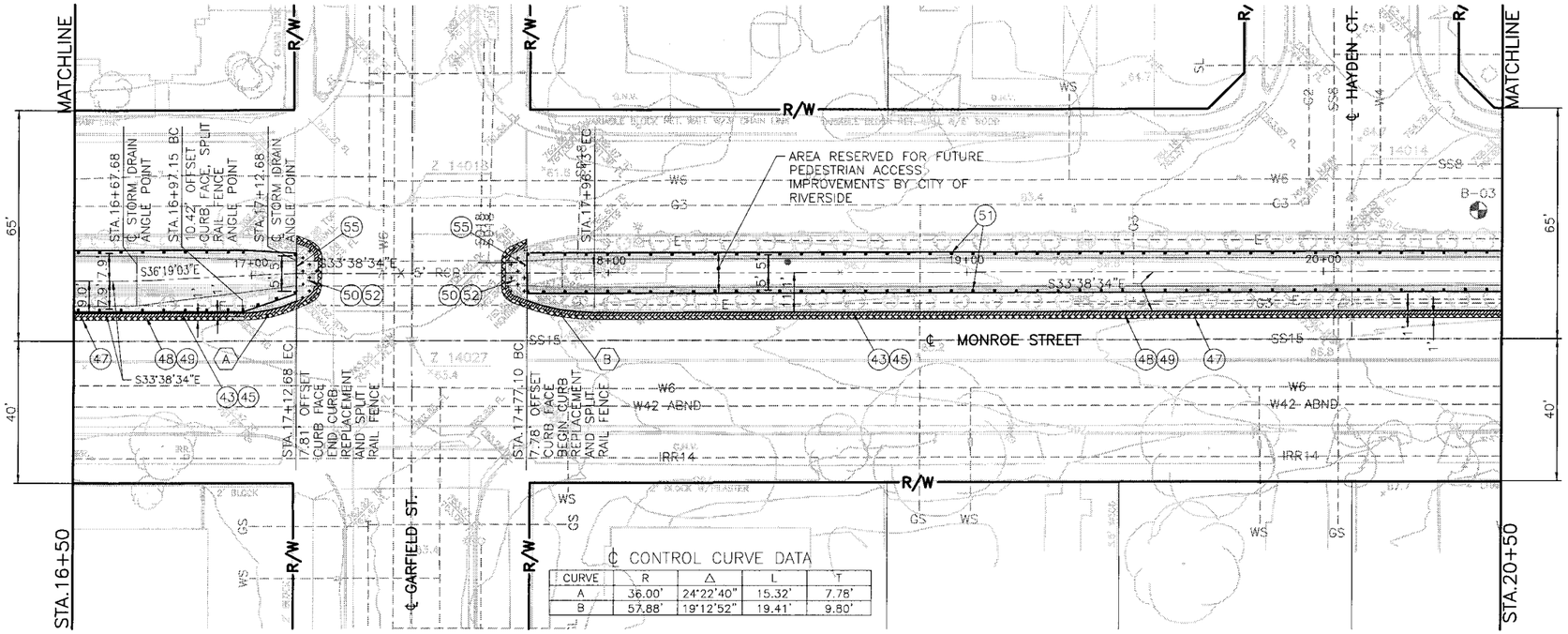
APPROVED BY: DATE: 02/14/17

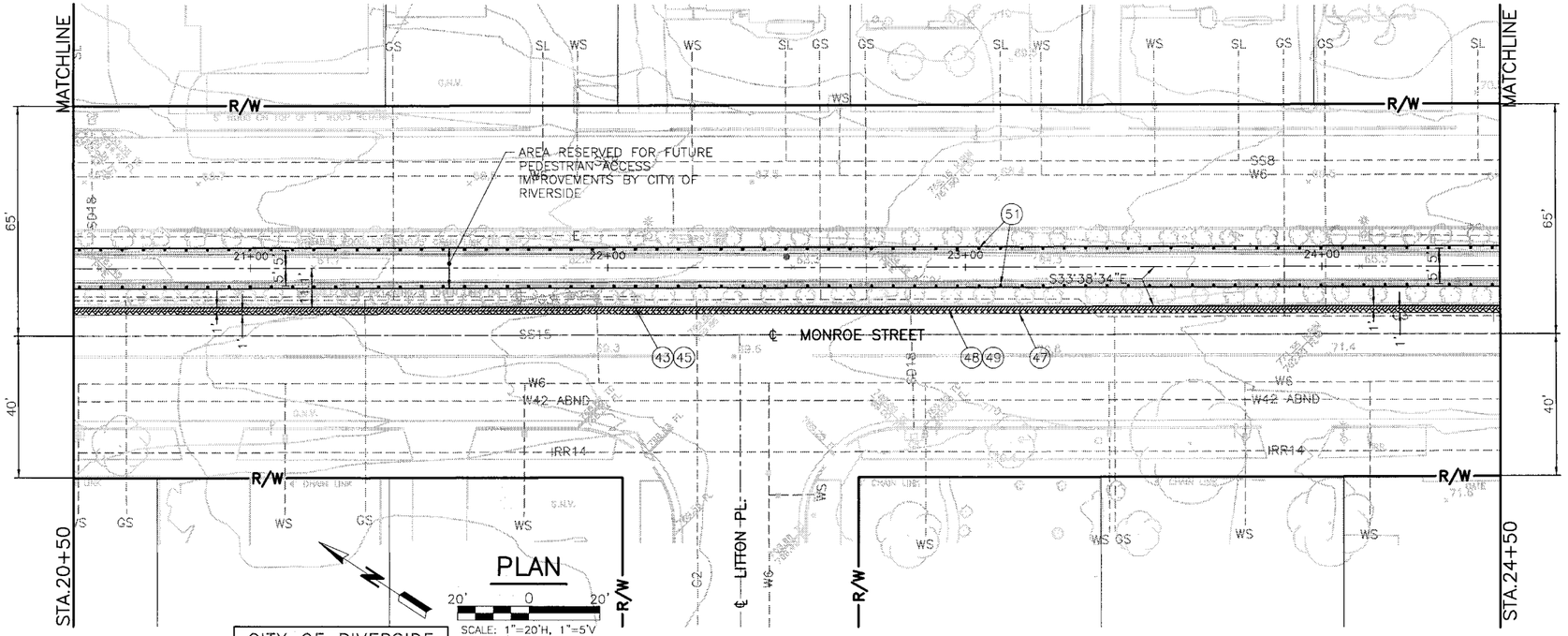
MONROE MDP
MONROE CHANNEL
STAGE 4

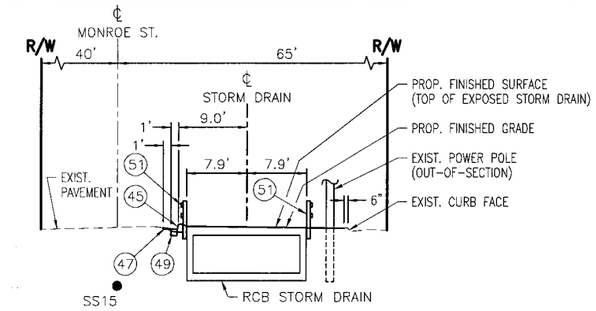
CURB AND SPLIT RAIL FENCE IMPROVEMENTS
STA. 9+99.95 TO STA. 16+50

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 10 of 17

DWG. NO.: 371-8sd10 DIV. NO.: 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/15/17 PLOT TIME: 9:55AM PLOT SCALE: 1=1



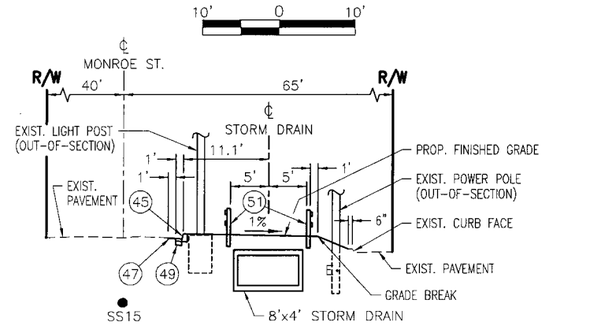




SECTION AT STA. 16+50.00

(TYPICAL FROM STA.10+38.04 TO STA.16+67.68)

10' 0 10'



SECTION AT STA. 19+00.00

(TYPICAL FROM STA.17+77.10 TO STA.26+50.50
AND FROM STA.27+15.00 TO STA.28+15.00)

10' 0 10'

NOTES

(43) SAWCUT, REMOVE AND LEGALLY DISPOSE OF EXISTING CONCRETE CURB AND GUTTER, AND EXISTING CONCRETE CURB ONLY.

(45) CONSTRUCT 8" TYPE II CURB ONLY PER CITY OF RIVERSIDE STD. DWG. No.200.

(47) GRIND EXISTING AC PAVING ONE FOOT WIDE AND PLACE 0.125' ASPHALT CONCRETE OVERLAY TO MEET EXISTING FINISH SURFACE.

(48) SAWCUT, REMOVE, AND LEGALLY DISPOSE OF EXISTING AC PAVING.

(49) CONSTRUCT 6" TYPE "A" HOT MIX ASPHALT OVER 6" CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.

(50) SAWCUT, REMOVE AND LEGALLY DISPOSE OF EXISTING CONCRETE SIDEWALK AND EXISTING CONCRETE CURB.

(51) CONSTRUCT PLASTIC SPLIT RAIL FENCE PER DETAIL 10 ON SHEET 9.

(52) CONSTRUCT 6" TYPE "A" HOT MIX ASPHALT PAVING. MATCH EXISTING TOP OF PAVEMENT AT EDGE OF EXISTING CURB FACE OF REMOVED MEDIAN.

(55) CONSTRUCT 6 FOOT TALL CHAIN LINK FENCE BARRICADE PER DETAIL 11 ON SHEET 9.

LEGEND

SAWCUT AND REMOVE EXISTING AC PAVING (48) AND CONSTRUCT NEW AC PAVING. (49)

SAWCUT AND REMOVE EXISTING SIDEWALK AND CURB (50) AND CONSTRUCT NEW AC PAVING. (52)

0.125' GRIND AND OVERLAY AREA. (47)

DWG. NO.: 371-8sd10 E NO.: 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/15/17 PLOT TIME: 9:55AM PLOT SCALE: 1=1

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

CITY OF RIVERSIDE PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

SEAL—ENGINEER: REGISTERED PROFESSIONAL ENGINEER JAMES R. BECKLE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
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APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
Z-14019
3/4" IP W/ NAIL NO TAG DN. 0.3'
ELEV.: 760.11
NAD 83
NAVD 88

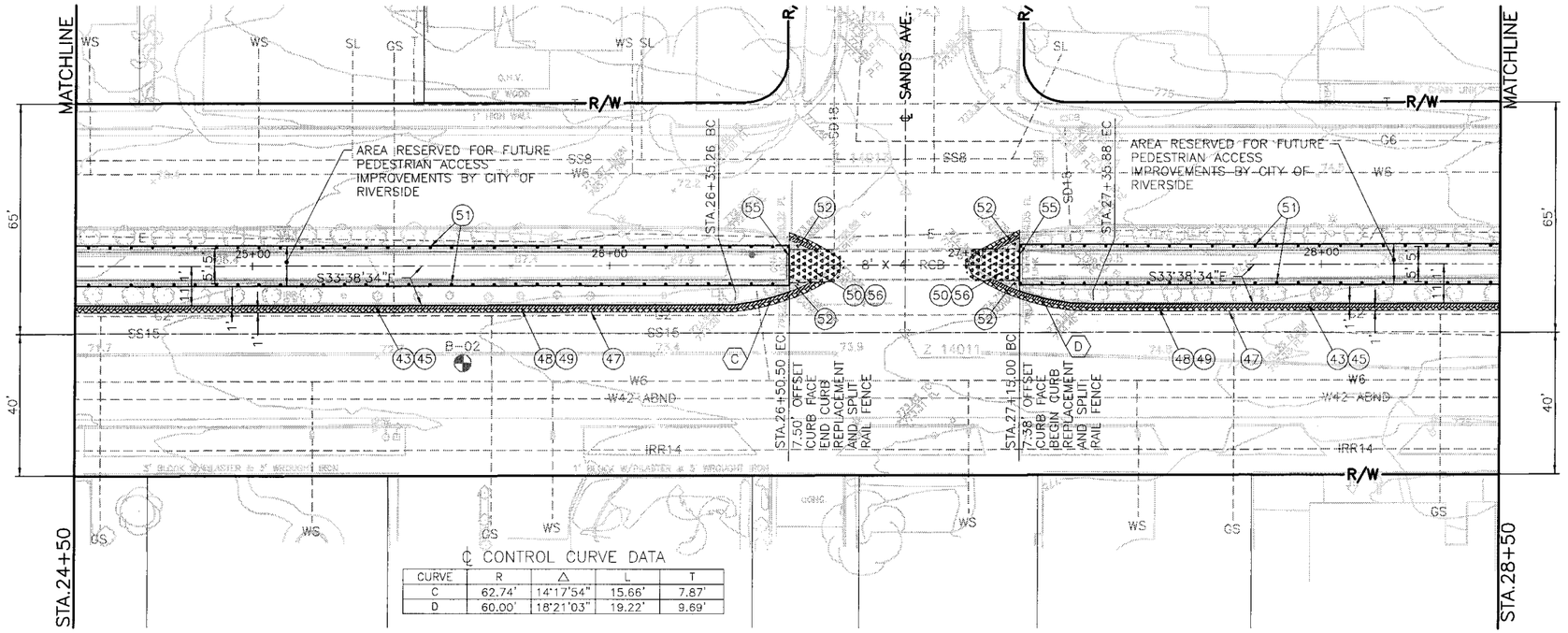
REVISIONS

REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

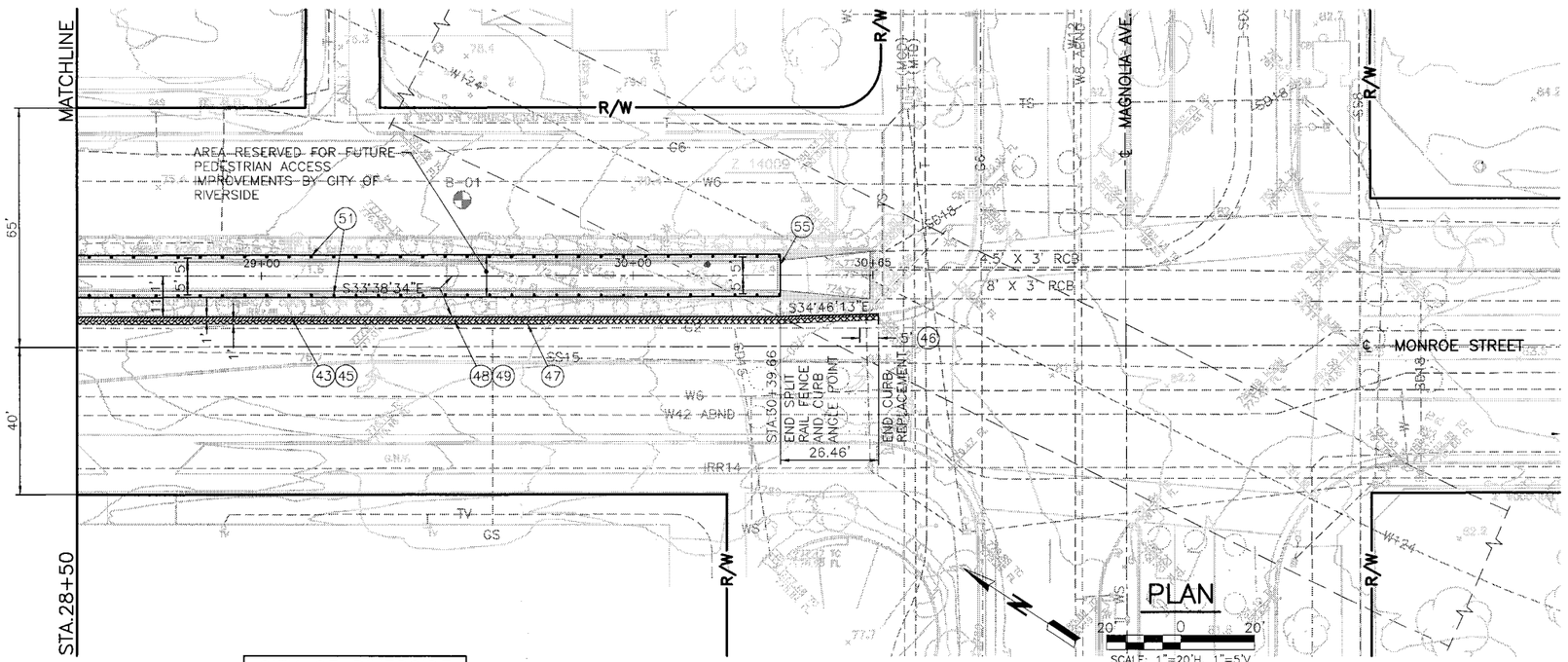
MONROE MDP
MONROE CHANNEL
STAGE 4
CURB AND SPLIT RAIL FENCE IMPROVEMENTS
STA. 16+50 TO STA. 24+50

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 11 of 17



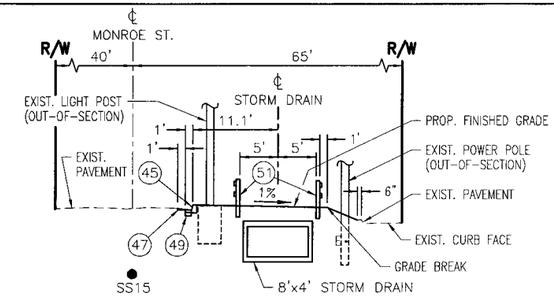
¢ CONTROL CURVE DATA

CURVE	R	Δ	L	T
C	62.74'	14°17'54"	15.66'	7.87'
D	60.00'	18°21'03"	19.22'	9.69'



PLAN

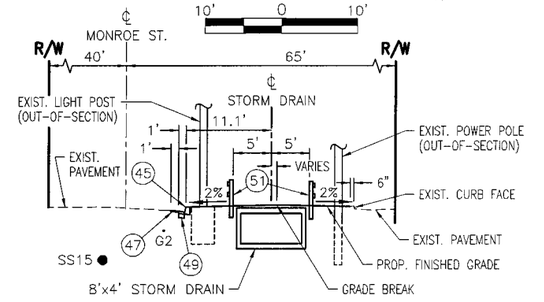
SCALE: 1"=20'H, 1"=5'V



SECTION AT STA. 19+00.00

(TYPICAL FROM STA.17+77.10 TO STA.26+50.50 AND FROM STA.27+15.00 TO STA.28+15.00)

10' 0 10'



SECTION AT STA. 29+00.00

(TYPICAL FROM STA.28+15 TO STA.30+64.66)

10' 0 10'

NOTES

(43) SAWCUT, REMOVE AND LEGALLY DISPOSE OF EXISTING CONCRETE CURB AND GUTTER, AND EXISTING CONCRETE CURB ONLY.

(45) CONSTRUCT 8" TYPE II CURB ONLY PER CITY OF RIVERSIDE STD. DWG. No.200.

(46) TRANSITION FROM EXISTING TOP OF CURB TO PROPOSED 8" HIGH CURB FACE.

(47) GRIND EXISTING AC PAVING ONE FOOT WIDE AND PLACE 0.125' ASPHALT CONCRETE OVERLAY TO MEET EXISTING FINISH SURFACE.

(48) SAWCUT, REMOVE, AND LEGALLY DISPOSE OF EXISTING AC PAVING.

(49) CONSTRUCT 6" TYPE "A" HOT MIX ASPHALT OVER 6" CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.

(50) SAWCUT, REMOVE AND LEGALLY DISPOSE OF EXISTING CONCRETE SIDEWALK AND EXISTING CONCRETE CURB.

(51) CONSTRUCT PLASTIC SPLIT RAIL FENCE PER DETAIL 10 ON SHEET 9.

(52) CONSTRUCT 6" TYPE "A" HOT MIX ASPHALT PAVING. MATCH EXISTING TOP OF PAVEMENT AT EDGE OF EXISTING CURB FACE OF REMOVED MEDIAN.

(55) CONSTRUCT 6 FOOT TALL CHAIN LINK FENCE BARRICADE PER DETAIL 11 ON SHEET 9.

(56) TOP OF EXISTING 8'x4' RCB WILL REMAIN EXPOSED AFTER REMOVAL OF EXISTING CONCRETE SIDEWALK AND CONCRETE CURB.

LEGEND

SAWCUT AND REMOVE EXISTING AC PAVING (48) AND CONSTRUCT NEW AC PAVING. (49)

SAWCUT AND REMOVE EXISTING SIDEWALK AND CURB (50) AND CONSTRUCT NEW AC PAVING. (52)

0.125' GRIND AND OVERLAY AREA. (47)

SAWCUT AND REMOVE EXISTING SIDEWALK AND CURB (50) AND LEAVE TOP OF EXISTING RCB EXPOSED. (56)

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

CITY OF RIVERSIDE PUBLIC WORKS

APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER

DATE 02/14/17

SEAL—ENGINEER

REGISTERED PROFESSIONAL ENGINEER JAMES R. BEALE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants

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APPROVED BY

REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
Z-14019
3/4" IP W/ NAIL NO TAG DN. 0.3'
ELEV.: 760.11
NAD 83
NAVD 88

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17

APPROVED BY: DATE: 02/14/17

MONROE MDP
MONROE CHANNEL
STAGE 4

CURB AND SPLIT RAIL FENCE IMPROVEMENTS
STA. 24+50 TO STA. 30+66.12

Project No. 1-0-00071-04

Drawing No. 1-0719

Sheet 12 of 17

DWG. NO.: 371-8sd11 F. NO.: 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/15/17 PLOT TIME: 9:56AM PLOT SCALE: 1=1

TRAFFIC CONTROL GENERAL NOTES

1. ALL TRAFFIC CONTROL FOR CONSTRUCTION SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) ADOPTED 2012, CALTRANS SPECIFICATIONS AND STANDARD PLANS, DATED 2010, AND THE SPECIAL PROVISIONS.

2. LANE CLOSURES SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

3. ANY PAVEMENT MARKINGS AND STRIPING DAMAGED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR. ALL EXISTING FACILITIES INCLUDING SIGNING, STRIPING, MARKINGS, MARKERS AND SIGNAL SHALL BE RESTORED TO THE ORIGINAL CONDITION AND/OR LOCATION AT THE END OF EACH CONSTRUCTION PERIOD FOR EACH STAGE.

4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A PUBLIC STREET TO INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS SHOWN HEREON, AS WELL AS ANY SUCH ADDITIONAL DEVICES AS MAY BE REQUIRED TO INSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.

5. A MINIMUM OF FIVE FEET OF CLEARANCE SHALL BE MAINTAINED BETWEEN ANY OPEN EXCAVATION AND THE ADJACENT MOVING TRAFFIC LANE. NO OPEN TRENCH ADJACENT TO A TRAFFIC LANE SHALL EXCEED 300 FEET. TEMPORARY CONCRETE BARRIER (TYPE K PER CALTRANS STANDARD PLAN T-4 MODIFIED WITH A 4' HIGH TRAFFIC SCREEN PER DETAILED SPECIFICATIONS) SHALL BE USED WHENEVER SHOWN ON THE PLANS. THE C27(CA) "OPEN TRENCH" SIGN SHALL BE UTILIZED WHENEVER AN OPEN EXCAVATION AREA EXISTS ADJACENT TO THE TRAVEL WAY.

6. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF THE BUS ROUTES AND BUS STOPS WITH SAM WATIANACHINDA, RIVERSIDE TRANSIT AGENCY AT (951) 565-5122 THREE WEEKS IN ADVANCE OF CONSTRUCTION ACTIVITY AFFECTING BUS STOPS.

7. THE CONTRACTOR SHALL PROVIDE A SAFE AND CONTINUOUS PASSAGE OF LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.

8. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS(S) SHALL BE AS DIRECTED BY THE ENGINEER BASED ON TRAFFIC CONDITIONS.

9. CONSTRUCTION TRUCK TRAFFIC MERGING INTO TRAFFIC LANES SHALL BE BY USE OF FLAGGER AND APPROPRIATE SIGNAGE AS DIRECTED BY THE ENGINEER.

10. TRAFFIC CONES FOR NIGHTIIME USE SHALL HAVE 6/4 RETROREFLECTIVE SLEEVES.

11. WHERE PRACTICAL, CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL AND TEMPORARY SIGNING UPON COMPLETION OF DAILY CONSTRUCTION, AND RESTORE SIGNING AND STRIPING, TO CONDITIONS SHOWN AS EXISTING.

12. SEE CALTRANS STANDARD PLANS A20A THRU A20D & A24A THRU A24E FOR STRIPING DETAILS. SEE CALTRANS STANDARD PLANS T1A, T1 B, & T2 FOR TEMPORARY CRASH CUSHION ARRAYS.

13. TRAFFIC CONTROL CHANNELIZERS SHALL BE EPOXIED TO THE PAVEMENT. TRAFFIC CONTROL CONES WITH DOUBLE BASES MAY BE USED IN LIEU OF CHANNELIZERS FOR DAILY SHORT TERM (ONE WEEK MAXIMUM) CONSTRUCTION ACTIVITIES.

14. A TRAFFIC CONTROL PERMIT MUST BE OBTAINED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.

15. CONSTRUCTION ACTIVITY WITHIN THE TRAVEL WAY SHALL BE LIMITED TO THE HOURS BETWEEN 7:30 AM AND 3:30 PM. ALL EXCAVATIONS WITHIN THIS AREA SHALL BE COVERED WITH STEEL PLATES FROM 3:30 PM TO 7:30 AM. SEE SPECIAL PROVISIONS FOR THE MINIMUM NUMBER OF LANES TO BE MAINTAINED OPEN. LEFT TURNS MAY BE PROHIBITED DURING INTERSECTION CONSTRUCTION AS DIRECTED BY THE ENGINEER.

16. THESE TRAFFIC CONTROL PLANS SHOW TRAFFIC CONTROL DEVICES FOR LONG TERM TRAFFIC CONTROL FOR CONSTRUCTION LIMITS SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO SHORT TERM TRAFFIC CONTROL REQUIREMENTS IN ACCORDANCE WITH CALTRANS "MANUAL OF UNIFORM TRAFFIC CONTROLS". SHORT TERM TRAFFIC CONTROL AND CHANGES TO THESE PLANS DURING CONSTRUCTION SHALL BE SUBMITIED FOR REVIEW AND APPROVAL BY THE CITY OF RIVERSIDE TRAFFIC ENGINEERING DIVISION.

17. USE AND PLACEMENT OF FLASHING ARROW BOARD SIGN(S) SHALL BE AS DIRECTED BY THE ENGINEER. ALL TRAFFIC TRANSITIONS SHALL UTILIZE ARROW BOARDS.

18. FLASHING BEACONS AND/OR WARNING LIGHTS SHALL BE USED WHERE DIRECTED BY THE ENGINEER.

19. CONTRACTOR MAY USE PREFABRICATED REMOVABLE DETOUR STRIPING TAPE, PAVEMENT MARKINGS AND RAISED MARKERS WHERE SHORT TERM USE WILL OCCUR (24 HOURS OR LESS), OR AS SHOWN ON THE PLANS.

20. ALL TRAFFIC SIGNAL MODIFICATION WORK SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS AND PLANS, DATED 2010, AND THE SPECIAL PROVISIONS.

21. STEEL PLATES OR A MINIMUM OF 4:1 SLOPE SHALL BE MAINTAINED FOR OPEN EXCAVATIONS DURING NON-WORKING HOURS. "STEEL PLATES AHEAD" SIGNS SHALL BE PROVIDED AT ALL TIMES.

22. ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, AND CURB PAINT SHALL BE REMOVED BY SANDBLASTING, BLACK-OUT METHOD IS NOT PERMITTED. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED.

23. CONTRACTOR SHALL MAINTAIN ROADWAY SURFACE IN OPERABLE DRIVING CONDITION AT ALL TIMES. TEMPORARY A.C. PAVEMENT MAY BE REQUIRED IN ORDER TO MAINTAIN TEMPORARY LANES IN ACCEPTABLE CONDITION.

24. TYPE II BARRICADE MOUNTED FLASHING YELLOW LIGHTS SHALL BE PLACED ON TYPE II BARRICADES AT 200' SPACING AS SHOWN ON THE "TYPICAL CHANNELIZER DETAIL" OR AS DIRECTED BY THE ENGINEER.

25. CONTRACTOR SHALL REMOVE OR COVER ALL CONFLICTING SIGNS INCLUDING SIGNS ON THE TRAFFIC SIGNAL MAST ARMS.

26. ONLY ONE STAGE MAY BE DONE AT A TIME. COMPLETE ONE STAGE BEFORE STARTING THE NEXT.

27. CONTRACTOR SHALL COORDINATE WITH THE CITY OF RIVERSIDE TRAFFIC ENGINEERING DEPARTMENT AT (951) 826-6098 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING ANY TRAFFIC SIGNAL WITHIN CONSTRUCTION AREA. CONTACT CITY OF RIVERSIDE TRAFFIC ENGINEERING DEPARTMENT FOR TRAFFIC SIGNAL OPERATIONAL CHANGES WHEN TRAFFIC LOOPS ARE DAMAGED OR FOR TRAFFIC CONTROL CONDITIONS NOTED ON THE PLANS.

28. CONTRACTOR SHALL REPLACE ALL CONTRACTOR DAMAGED TRAFFIC FACILITIES INCLUDING CONDUIT, CONDUCTORS, PULL BOXES AND LOOP DETECTORS. AT LOCATIONS WHERE THE EXISTING LOOP DETECTORS WILL BE AFFECTED OR DAMAGED BY THE PROPOSED WORK. LOOPS SHALL BE REPLACED WITHIN FIVE (5) WORKING DAYS OR AS DETERMINED BY THE ENGINEER. IN LIEU OF INSTALLING TEMPORARY LOOP DETECTORS, CONTRACTOR MAY PROVIDE AND INSTALL TEMPORARY VIDEO DETECTION SYSTEM FOR THE DURATION OF CONSTRUCTION. VIDEO DETECTION SYSTEM SHALL BE COMPATIBLE WITH THE CITY'S TRAFFIC SIGNAL SYSTEM.

LEGEND

▭	K RAIL BARRIER PER CALTRANS STANDARD PLAN T-4 MODIFIED WITH A 4' HIGH TRAFFIC SCREEN PER DETAILED SPECIFICATIONS
⚑	TRAFFIC CONTROL SIGNS
+++	TYPE III BARRICADE
←	DIRECTION OF TRAVEL
▨	CONSTRUCTION AREA
G7-1	(MONROE FRONTAGE STREET)
G20-2	END ROAD WORK
M4-8A	END DETOUR
M4-9R	DETOUR RIGHT
M4-10L	DETOUR LEFT
M4-10R	DETOUR RIGHT
R3-1	NO RIGHT TURN
R3-2	NO LEFT TURN
R5-1	DO NOT ENTER
R11-2	ROAD CLOSED
R29(CA)	NO STOPPING/NO PARKING 7AM TO 3PM
R61-19(CA)	RIGHT AND LEFT TURN ONLY
SC3(CA)	DETOUR STRAIGHT
W12-1	DOUBLE ARROW
W20-1	ROAD WORK AHEAD
W20-3	ROAD CLOSED AHEAD

DWG. NO.: 371-8sht UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/23/17 PLOT TIME: 6:54AM PLOT SCALE: 1=1

DIGALERT™ DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE
DWG. D#887

CITY OF RIVERSIDE
PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

SEAL-ENGINEER
REGISTERED PROFESSIONAL ENGINEER JAMES R. BEALE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 • 684 • 6900
APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

BENCHMARK:
NONE

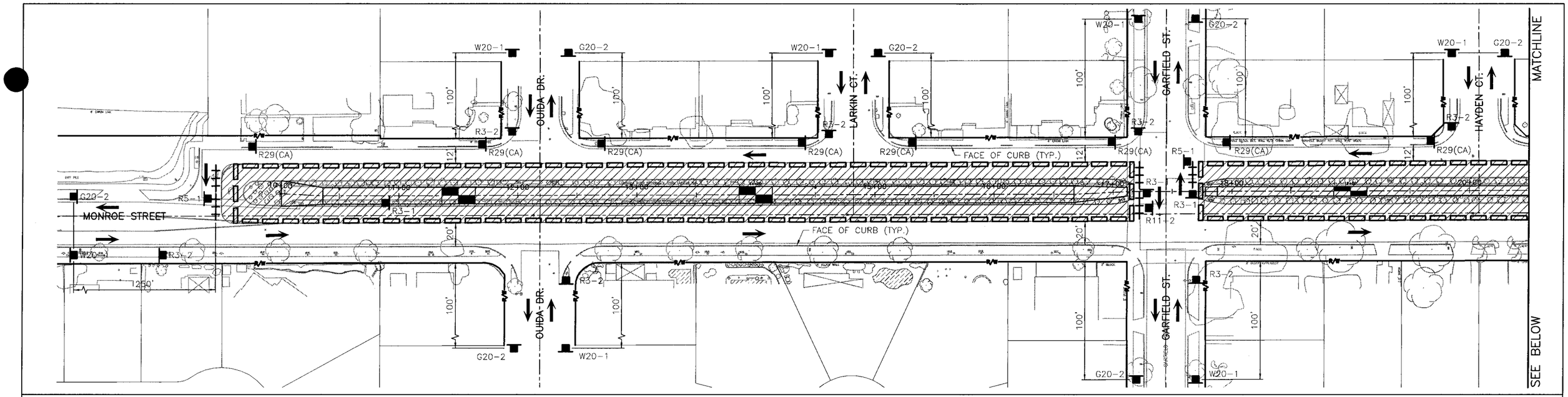
REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

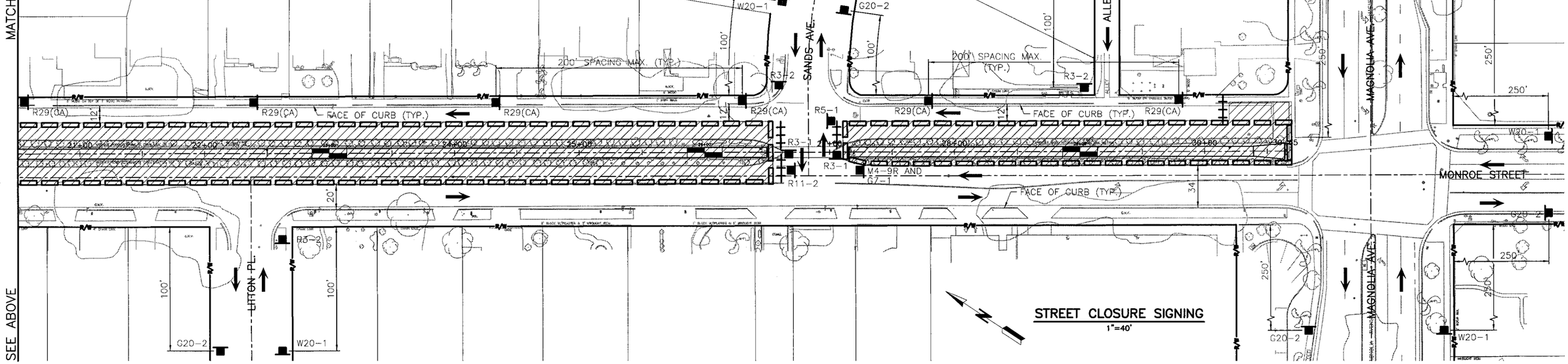
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

MONROE MDP
MONROE CHANNEL
STAGE 4

TRAFFIC CONTROL NOTES AND LEGEND

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 13 of 17





STREET CLOSURE SIGNING
1"=40'

CITY OF RIVERSIDE
DWG. D#887

SEAL–ENGINEER

DIGALERT
DIAL TOLL FREE
811
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APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
NONE

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

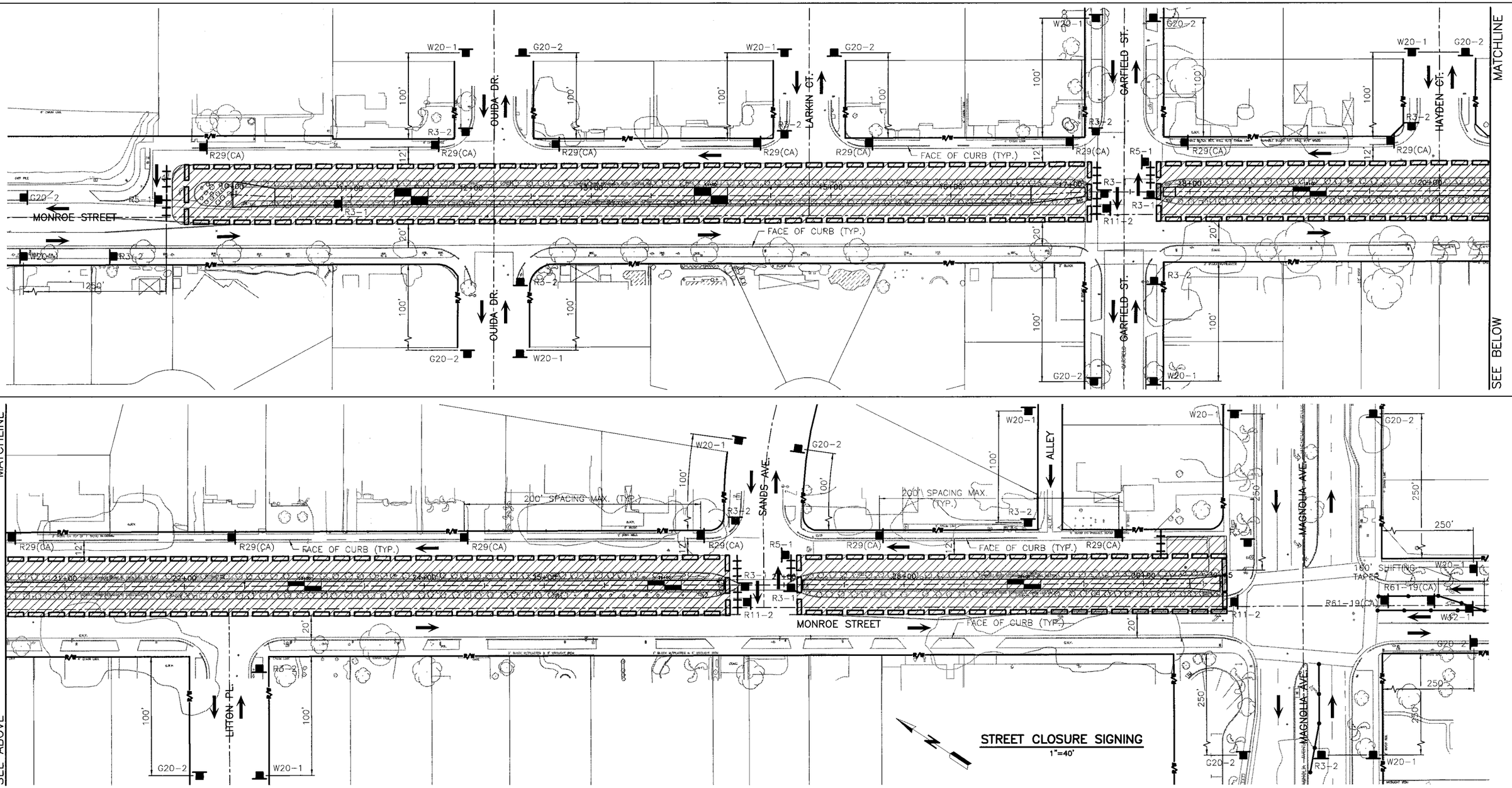
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

MONROE MDP
MONROE CHANNEL
STAGE 4

TRAFFIC CONTROL
PHASE 1 PLAN

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 14 of 17

DWG. NO.: 371-8 E NO.: 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/15/17 PLOT TIME: 12:35PM PLOT SCALE: 1=1



NOTE

SEE PHASE 2 DETOUR PLAN
ON SHEET 16

CITY OF RIVERSIDE
DWG. D#887

DIGALERT — DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE
PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
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SEAL—ENGINEER

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APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

TEMPORARY BENCHMARK:
NONE

REF.	DESCRIPTION	APPR.	DATE

REVISIONS

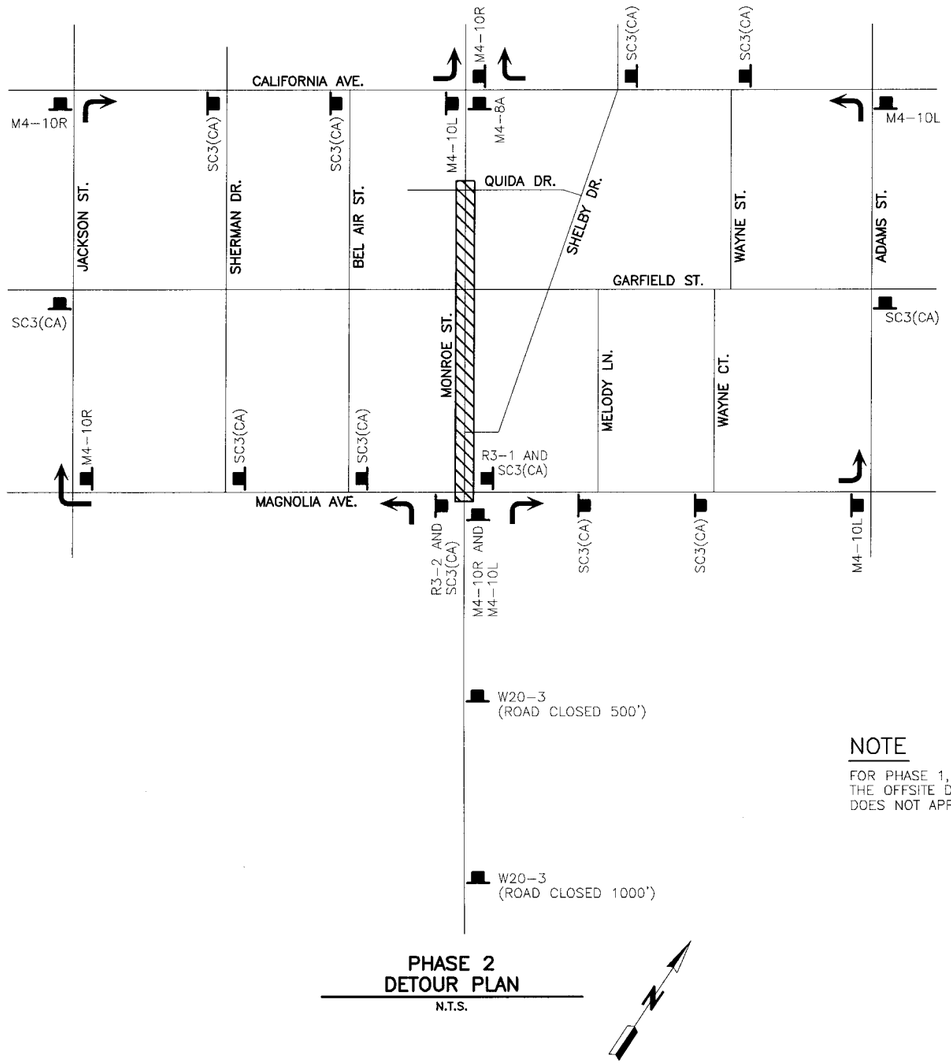
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

MONROE MDP
MONROE CHANNEL
STAGE 4

TRAFFIC CONTROL
PHASE 2 PLAN

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 15 of 17

DWG. NO.: 371-8 DATE NO.: 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/15/17 PLOT TIME: 2:29PM PLOT SCALE: 1=1



NOTE

FOR PHASE 1, SHOWN ON SHEET 14, THE OFFSITE DETOUR SHOWN HEREON DOES NOT APPLY.

PHASE 2 DETOUR PLAN
N.T.S.

DWG. NO. 371-8 FILE NO. 371-8 UPDATE BY: MRN PROJ. ENG.: JRB PLOT DATE: 02/23/17 PLOT TIME: 8:58AM PLOT SCALE: 1=1

DIGALERT™ DIAL TOLL FREE 811 AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF RIVERSIDE DWG. D#887

CITY OF RIVERSIDE PUBLIC WORKS
APPROVED BY: DEPUTY DIRECTOR/CITY ENGINEER
DATE 02/14/17

SEAL—ENGINEER
REGISTERED PROFESSIONAL ENGINEER JAMES R. BURKE No. 73746 CIVIL STATE OF CALIFORNIA

KRIEGER & STEWART Engineering Consultants
3602 University Avenue • Riverside, CA 92501
www.kriegerandstewart.com • 951 • 684 • 6900
APPROVED BY
REGISTERED ENGINEER No. 73746 DATE 02/14/17

BENCHMARK: NONE

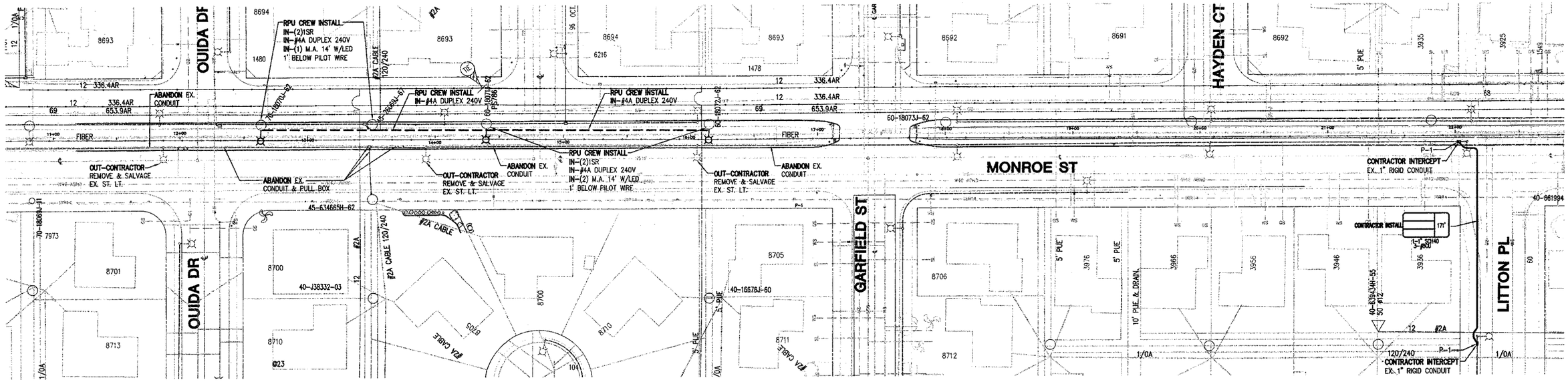
REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 02/14/17
APPROVED BY: DATE: 02/14/17

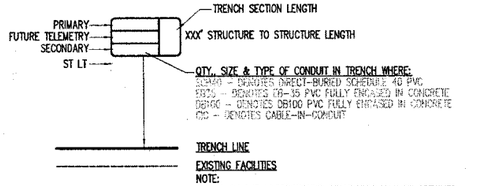
MONROE MDP MONROE CHANNEL STAGE 4

TRAFFIC CONTROL DETOUR PLAN

Project No. 1-0-00071-04
Drawing No. 1-0719
Sheet 16 of 17



SYMBOL LEGEND



NOTE:
COPIES OF THE UNDERGROUND STANDARDS MAY BE OBTAINED AT 3750 UNIVERSITY AVENUE, 3RD FLOOR RIVERSIDE, CA OR AT
http://www.riversideca.gov/utilities/elec-ugconstruction.asp

STREET LIGHT LEGEND

CONTRACTOR TO REMOVE AND SALVAGE (HANDLE WITH CARE)

STREET LIGHT FACILITIES SHOWN ON THE PLANS TO BE SALVAGED SHALL BE REMOVED AND DELIVERED BY THE CONTRACTOR TO THE CITY YARD AT 8095 LINCOLN AVE. ALL SALVAGED FACILITIES SHALL REMAIN THE PROPERTY OF THE CITY.

1" DIRECT-BURIED SCHEDULE 40 PVC CONDUIT W/ 3-#8 CU 600V CABLES

PULLBOX (10"X 17"X 12") PER ITEM #P-1 OF UGS-800, INSTALL PER UGS-320

STRUCTURE SCHEDULE

GENERAL INFORMATION					SPECS.		INSTALLATION
SYMBOL	STRUCT.#	DESCRIPTION	SIZE	QTY.	ITEM NO.	DWG. NO.	DWG. NO.
□		STREET LIGHT PULL BOX	10"X17"X12"	1	P-1	UGS-800	UGS-320
——		DUCT BANK		171'		UGS-100	UGS-100.1, 100.2

PLAN LEGEND

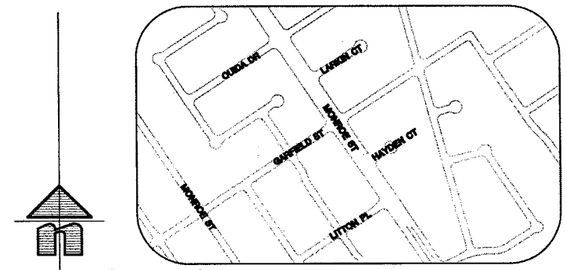
(XXX') APPROX. LENGTH OF POLE SPAN
PROPOSED 2-WIRE FACILITIES
EXISTING 1-WIRE FACILITIES
EXISTING 2-WIRE FACILITIES
EXISTING 3-WIRE FACILITIES
EXISTING 4-WIRE FACILITIES
EXISTING WOOD POLE
EXISTING MAST ARM STREET LIGHT
PROPOSED MAST ARM STREET LIGHT 139WATT LED MODEL # BXSPCHT3MEF57K-ULSVN
EXISTING TRANSFORMER
EXISTING POLE SWITCH
EXISTING FUSE
EXISTING POLE DISCONNECT(S)

STREET LIGHT NOTES

1. ALL FACILITIES INSTALLED BY DEVELOPER SHALL BE INSPECTED AND APPROVED BY THE DEPARTMENT CONSTRUCTION INSPECTOR (951 826-2335 OR 951-826-2416). ANY CHANGES SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO EXECUTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PHASES OF CONSTRUCTION WITH THE DEPARTMENT CONSTRUCTION INSPECTOR. THE DEPARTMENT INSPECTOR SHALL BE CONTACTED TWO WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION INSPECTION TO ARRANGE FOR INSPECTION TIMES.
2. PROVIDE AND INSTALL ALL STREET LIGHT FACILITIES SHOWN INCLUDING STREET LIGHT CABLE, IN CONFORMANCE WITH THE FOLLOWING STANDARD DRAWINGS: UGS-100, UGS-800, 801, & STREET LIGHT SPECIFICATION #2-6.
3. EXCAVATION FOR STREET LIGHT CONDUIT & ELECTROLIER FOUNDATIONS MUST BE DONE AFTER INSTALLATION OF CURBS & GUTTERS, BUT BEFORE INSTALLATION OF CURB RETURNS WITH SPANDRELS, CROSS GUTTERS, SIDEWALKS, AND DRIVE APRONS.
4. INSTALL A SINGLE WATERPROOF "IN-LINE" FUSE HOLDER ON EACH PHASE LEG CONDUCTOR IN THE BASE OF EACH STREET LIGHT STANDARD. FUSE HOLDER TO BE "BUSSMAN TRON" #HEB COMPATIBLE WITH SIZE AND TYPE OF WIRE WITH A "BUSSMAN" FNM 10 AMP 250V FUSE OR APPROVED EQUAL.
5. MARK INSTALLATION DATE ON PHOTO CONTROLS AND LAMPS AS PROVIDED FOR BY MANUFACTURER.
6. ACQUIRE A STREET OPENING PERMIT PRIOR TO EXCAVATING IN STREET RIGHT-OF-WAY.
7. ALL STREET LIGHT FEED POINTS TO BE CONNECTED BY PUBLIC UTILITIES AND ENERGIZED WHEN CLEARED BY DEPARTMENT CONSTRUCTION INSPECTOR.
8. STREET LIGHT SERVICE POINTS ARE 3 WIRE, 240V SYSTEM. THE THIRD STREET LIGHT WIRE IS TO BE USED AS A BOND WIRE ONLY, AS NOTED IN SPECIFICATION #2-6. FEED POINTS TO BE CONFIRMED AT THE TIME OF CONSTRUCTION.
9. DEPARTMENT CONSTRUCTION INSPECTOR MAY REQUIRE ALL PROPERTY LINES TO BE STAKED PRIOR TO EXCAVATION FOR STREET LIGHT FACILITIES.
10. ALL CABLE TO BE AWG. #8 COPPER AS SPECIFIED IN STREET LIGHT SPECIFICATION #2-6 (STREET LIGHT CABLE).
11. CONDUIT AND FITTINGS TO BE IN CONFORMANCE WITH UGS-100. BACKFILL TO BE TYPE AND COMPACTED AS SPECIFIED IN UGS-100.1.
12. STREET LIGHT DOOR OPENING TO FACE SIDEWALK.
13. ALL CONTRACTORS WORKING ON OR AROUND THE DEPARTMENT'S UNDERGROUND ELECTRICAL FACILITIES MUST HAVE THE PROPERLY QUALIFIED PERSONNEL AND EQUIPMENT TO PERFORM THE SPECIFIED WORK. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE TO ESTABLISH AND MAINTAIN A SAFE WORKING ENVIRONMENT INCLUDING, BUT NOT LIMITED TO WORK AROUND ENERGIZED HIGH VOLTAGE FACILITIES, GAS TESTING OF CONFINED SPACES, TRAFFIC AND PROTECTION. THE DEPARTMENT'S POLICY IS TO PROVIDE ONE (1) QUALIFIED OBSERVER AFTER 24 HOURS NOTICE, TO STAND BY DURING WORK AND PROVIDE RADIO CONTACT WITH CITY OPERATIONS CONTROL. EVERY ENTRY BY ANY PERSONNEL INTO A PUBLIC UTILITIES HIGH VOLTAGE STRUCTURE WILL REQUIRE THE PRESENCE OF A QUALIFIED ELECTRICAL WORKER IN ACCORDANCE WITH Cal/OSHA. ALL DEVELOPERS AND CONTRACTORS ARE REQUIRED TO SUBMIT REQUIRED DOCUMENTATION AND FOLLOW REQUIRED PROCEDURES. COPIES OF THE POLICY AND DOCUMENTS MAY BE OBTAINED AT 3750 UNIVERSITY AVENUE, 3RD FLOOR RIVERSIDE, CA OR AT WWW.RIVERSIDECA.GOV/UTILITIES/ELEC-WORKERREQS.ASP
14. THE CITY OBSERVER HAS THE AUTHORITY TO STOP THE CONTRACTOR'S WORK IF HE DETERMINES THAT ADEQUATE SAFETY PRECAUTIONS ARE NOT BEING TAKEN. HOWEVER, THE PRESENCE OF THE CITY OBSERVER DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR INSURING SAFE AND APPROPRIATE WORK PRACTICES.
15. FOR ENGINEERING INFORMATION CONTACT GARY HIRONIMUS AT 826-5675.

CUSTOMER PARTICIPATION

1. EXCAVATION FOR POWER SUBSTRUCTURES, CONDUITS AND ELECTROLIER FOUNDATIONS MUST BE DONE AFTER INSTALLATION OF CURBS & GUTTERS, BUT BEFORE INSTALLATION OF CURB RETURNS WITH SPANDRELS, CROSS GUTTERS, SIDEWALKS, AND DRIVE APRONS.
2. ALL APPLICABLE SERVICE CHARGES TO BE PAID TO THE DEPARTMENT PRIOR TO INSTALLATION OF DEPARTMENT FACILITIES.
3. PLEASE NOTE ELECTRIC UTILITY CREWS WILL BE SCHEDULED AS SOON AS ALL ITEMS ABOVE ARE COMPLETED. AFTER UTILITY STRUCTURE WORK IS APPROVED, ALLOW TWENTY OR MORE WORKING DAYS LEAD TIME IN YOUR SCHEDULE BEFORE ELECTRIC UTILITY CREW WORK BEGINS.



VICINITY MAP
NOT TO SCALE

IMPORTANT NOTICE
Section 4216/4217 of the Government Code requires a City Alert Identification Number to be issued before a excavation permit can be issued. Ask for your Dig Alert I.D. number.
CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
811

EST. DEM:
REF DWGS: CADME

CIRCUIT # 1206

STREET LIGHT DESIGN FOR:
MONROE CHANNEL
MONROE ST. X MAGNOLIA AVE.

SCALE 1" = 40'	DRAWN ADDIE REVUELTA	CITY OF RIVERSIDE DEPARTMENT OF PUBLIC UTILITIES
DATE 8/24/2016	CHECKED G.HIRONIMUS	TASK # 02 UOL
JPA NO. N/A	APPROVED	WORK ORDER # 1420715
MAP BK 66-2	BOARD DATE	DIV. E SIZE 5 PROJECT-SUBPROJECT # 140022-02
PERMIT NO.	ACCT. 613000-470638XX	SHEET 1 OF 1

ASBUILT	APPRVD.	REVISIONS	DATE