

GENERAL NOTES:

- 1 EXISTING UTILITIES SHOWN ON THE PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN.
- 2 PRIME CONTRACTORS BIDDING THIS WORK SHALL HAVE A CLASS "A", "C-34", OR A "C-42" LICENSE.
- 3 ALL ELEVATIONS SHOWN ON THE PLAN SHALL BE STAKED IN THE FIELD.
- 4 CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- 5 TRENCHES SHALL EITHER BE BACKFILLED AND COMPACTED PER STD. DWG. 453 OR COVERED WITH TRAFFIC RATED STEEL PLATES AT THE END OF EACH WORK DAY AS SPECIFIED IN THE SPECIAL PROVISIONS.
- 6 WATER VALVES ENCOUNTERED DURING PIPELINE CONSTRUCTION OR DURING RESTORATION OF SURFACE IMPROVEMENTS SHALL BE PROTECTED IN PLACE, RESTORED TO PRECONSTRUCTION CONDITION AND/OR ADJUSTED TO GRADE.
- 7 PIPE BEDDING SHALL BE PER STD. DWG. 452 AND CASE II AS SPECIFIED ON THE PLANS.
- 8 CONTRACTOR SHALL PERFORM A PRECONSTRUCTION VIDEO OF THE SEWER MAIN LINES. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VIDEOING ALL SEWER LATERALS FROM THE MAINLINE TO PROPERTY LINE ON SINGLE FAMILY RESIDENCES (SFR).
- 9 PIPE JOINTS FOR PROPOSED VCP SHALL BE TYPE "G", PER SECTION 208-2.3 OF THE STANDARD SPECIFICATIONS. PIPE JOINTS FOR JOINING EXISTING VCP TO PROPOSED VCP SHALL BE TYPE "Z", PER SECTION 208-5 OF THE STANDARD SPECIFICATIONS.
- 10 SERVICE LATERALS REPAIR SHALL BE PERFORMED AFTER CCTV INSPECTION REPORT HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.
- 11 ANY WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOPS SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED AND THE NECESSARY TIMING ADJUSTMENTS ARE MADE TO MAINTAIN SIGNAL OPERATION.
- 12 CONTRACTOR SHALL REPLACE ALL EXISTING TRAFFIC DETECTOR LOOPS AFFECTED BY CONSTRUCTION.
- 13 PIPE JOINTS FOR PROPOSED VCP SHALL BE TYPE "G", PER SECTION 208-2.3 OF THE STANDARD SPECIFICATIONS. PIPE JOINTS FOR JOINING EXISTING VCP TO PROPOSED VCP SHALL BE TYPE "Z", PER SECTION 208-5 OF THE STANDARD SPECIFICATIONS.

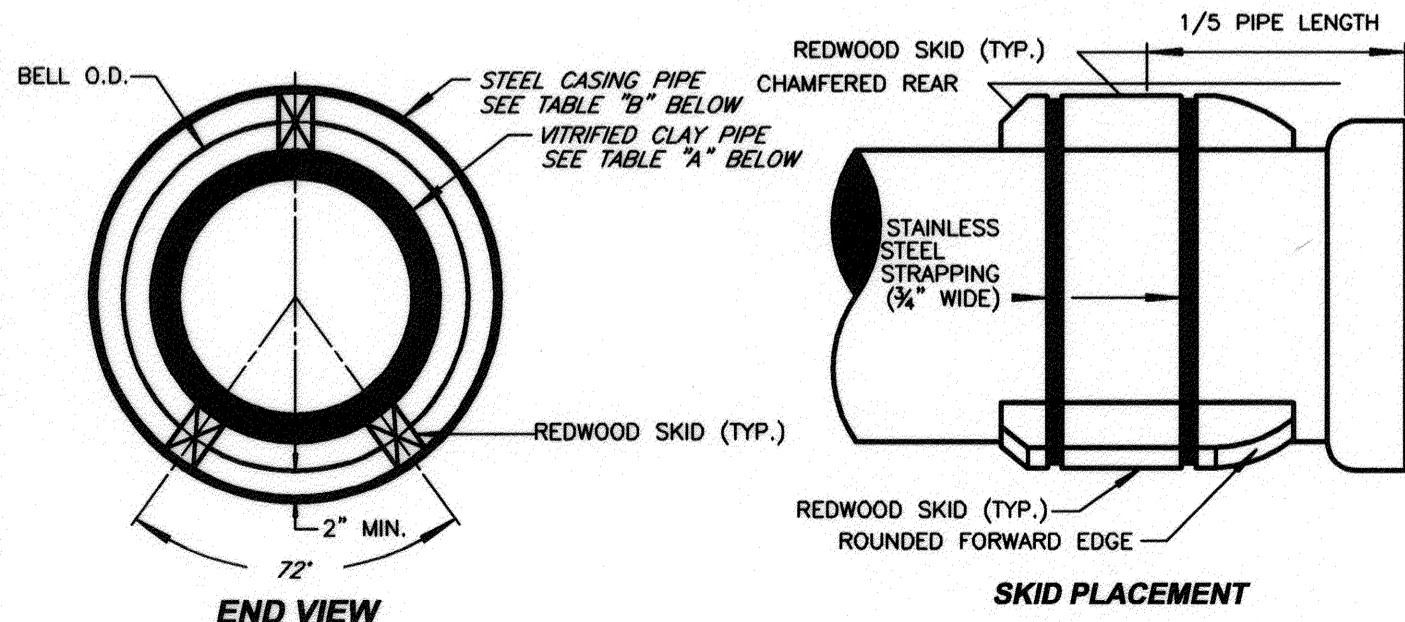
SPECIFIC CONSTRUCTION NOTES

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. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

- 1 EXISTING AT & T, PAC-BELL/SBC-TELEPHONE UNDERGROUND CABLE - PROTECT IN PLACE
- 2 PROTECT EXISTING WATER PIPELINE IN PLACE
- 3 8" EXISTING VCP TO BE REMOVED.
- 4 PROTECT IN PLACE EXISTING TELEPHONE 4" CONDUIT WITH 2-FIBER OPTIC CABLES (6" STEEL CASING).
- 5 STEEL PIPE ENCASEMENT, SEE STEEL CASING PIPE AND SKID DETAIL, BELOW.

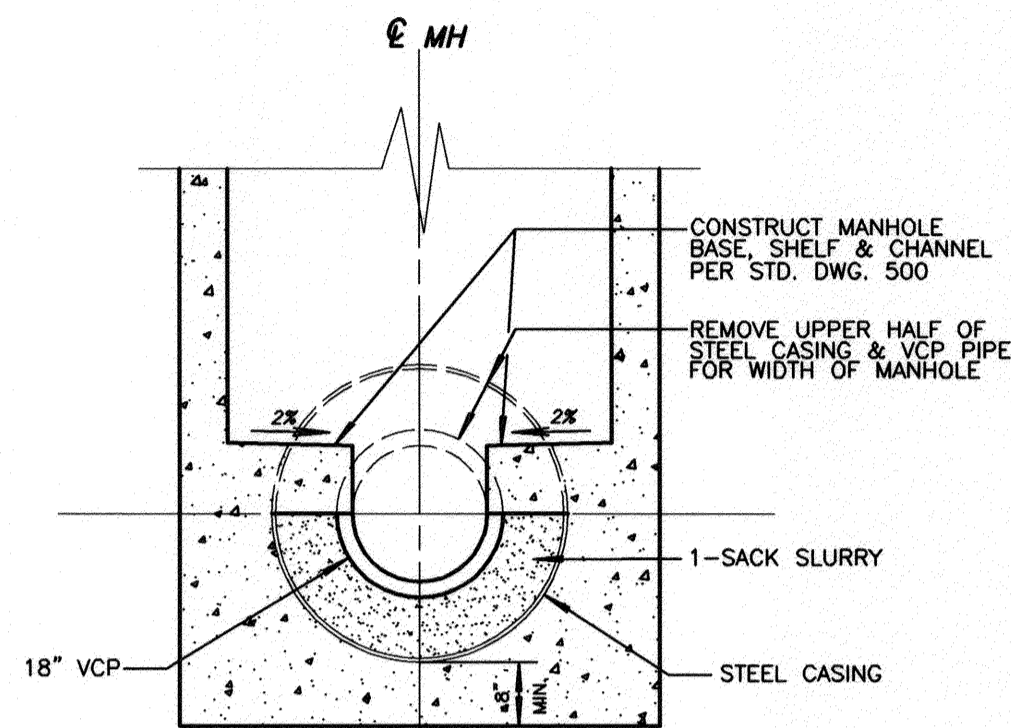
NOTES

1. SKIDS SHALL BE REDWOOD, 30" LONG, 4" WIDE, AND OF SUFFICIENT HEIGHT TO PROVIDE A MINIMUM 2" CLEARANCE BETWEEN INVERT OF CASING AND BELL OF VCP. ALL SKIDS SHALL BE OF EQUAL DIMENSIONS AND POSITIONED UNIFORMLY.
2. ALL STEEL CASING PIPE FIELD JOINTS SHALL BE WELDED WITH A CONTINUOUS CIRCUMFERENTIAL WELD.
3. CARRIER PIPE SHALL BE AIR TESTED PRIOR TO SLURRY BACKFILLING AND SEALING CASING.
4. VOID BETWEEN CASING AND CARRIER PIPE SHALL BE FILLED WITH A ONE SACK PCC SLURRY MIX.
5. UPSTREAM AND DOWNSTREAM ELEVATIONS TO BE VERIFIED PRIOR TO SEALING CASING.
6. ENDS OF CASING TO BE SEALED WITH BRICK AND MORTAR. PLACE 1" # MINIMUM PVC PIPE AT DOWNSTREAM INVERT OF CASING (THROUGH BRICK) AND SURROUND WITH 2 CUBIC FEET CRUSHED ROCK.

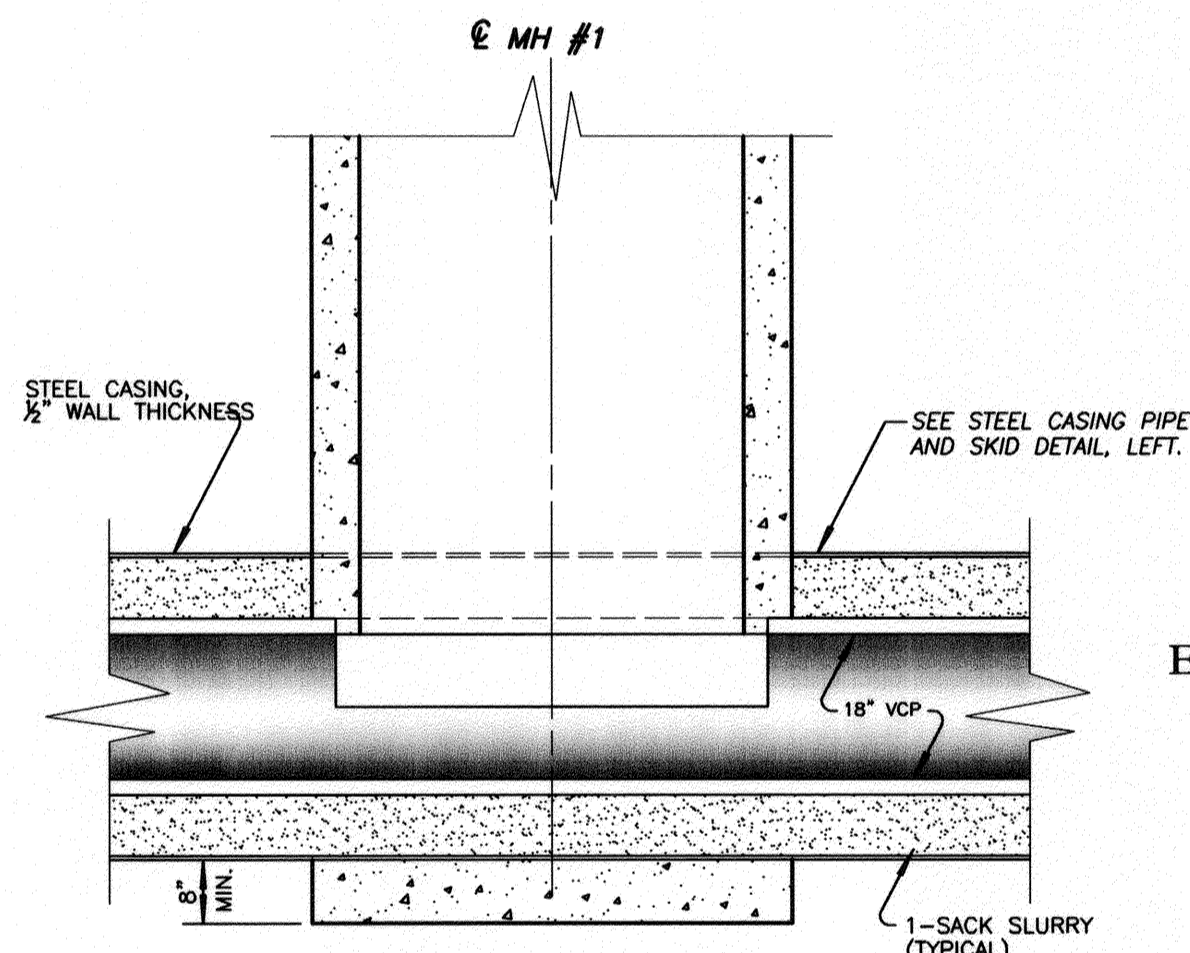


STEEL CASING PIPE AND SKID TYPICAL DETAIL
N.T.S.

A	B
18" VCP (BELL & SPIGOT)	36" x 3/8" THICK
18" VCP (MICROTUNNEL)	30" x 3/8" THICK



CROSS SECTION VIEW



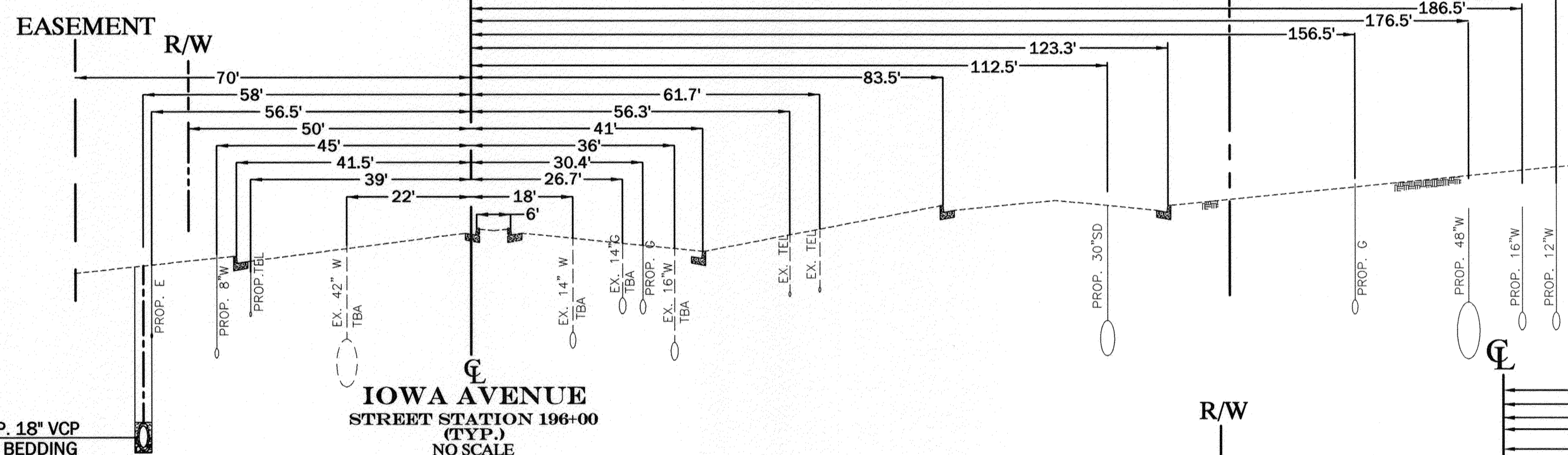
LONGITUDINAL VIEW

MH DETAIL

SEE PLAN SHEET 2

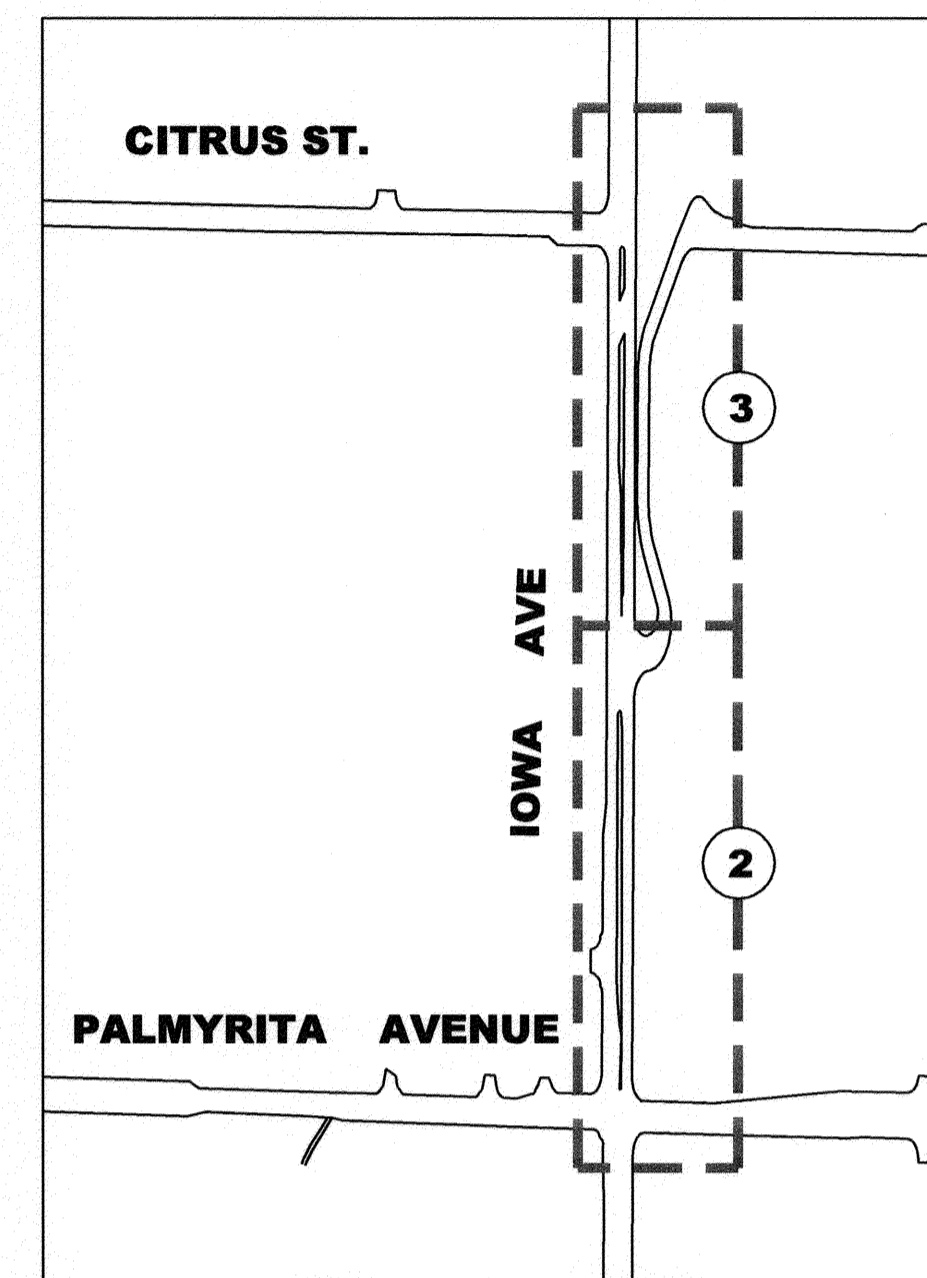
NOT TO SCALE

452 PROP. 18" VCP CASE II BEDDING



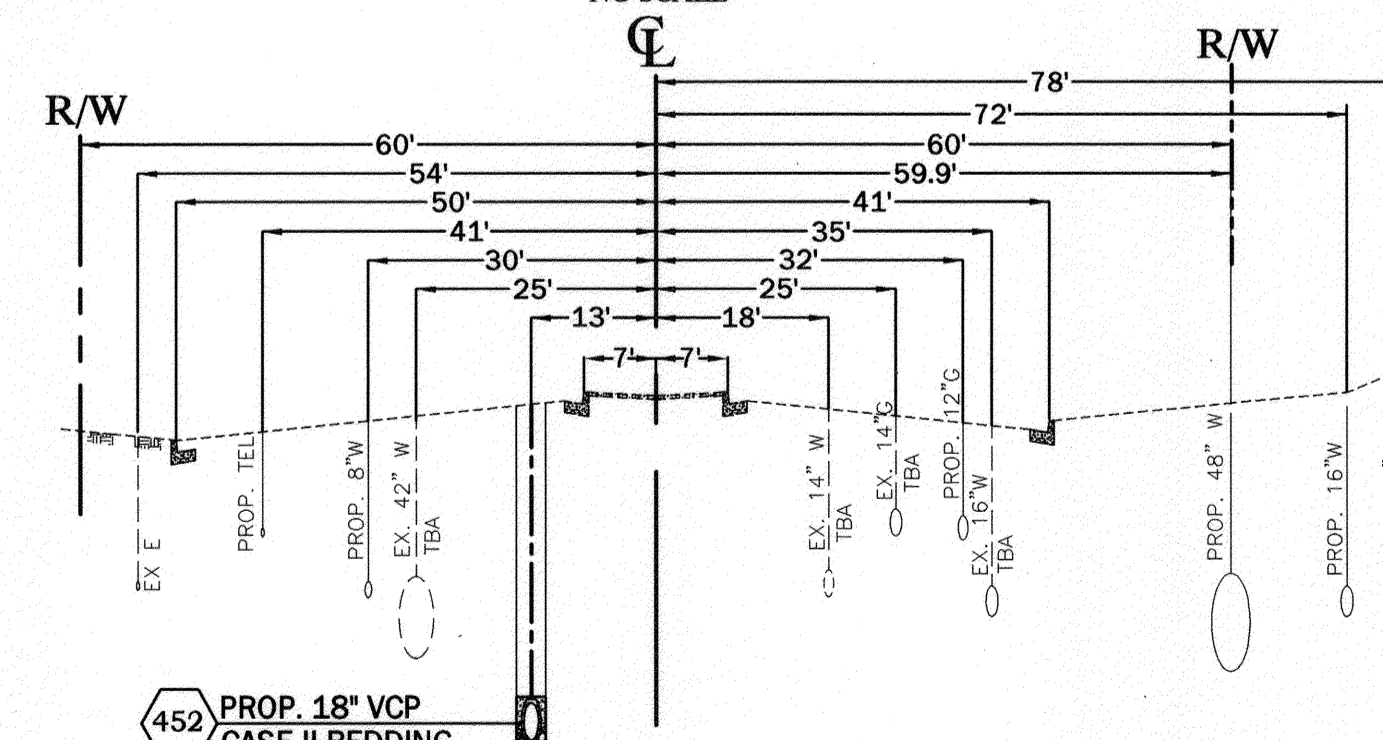
LOCATION MAP

NTS

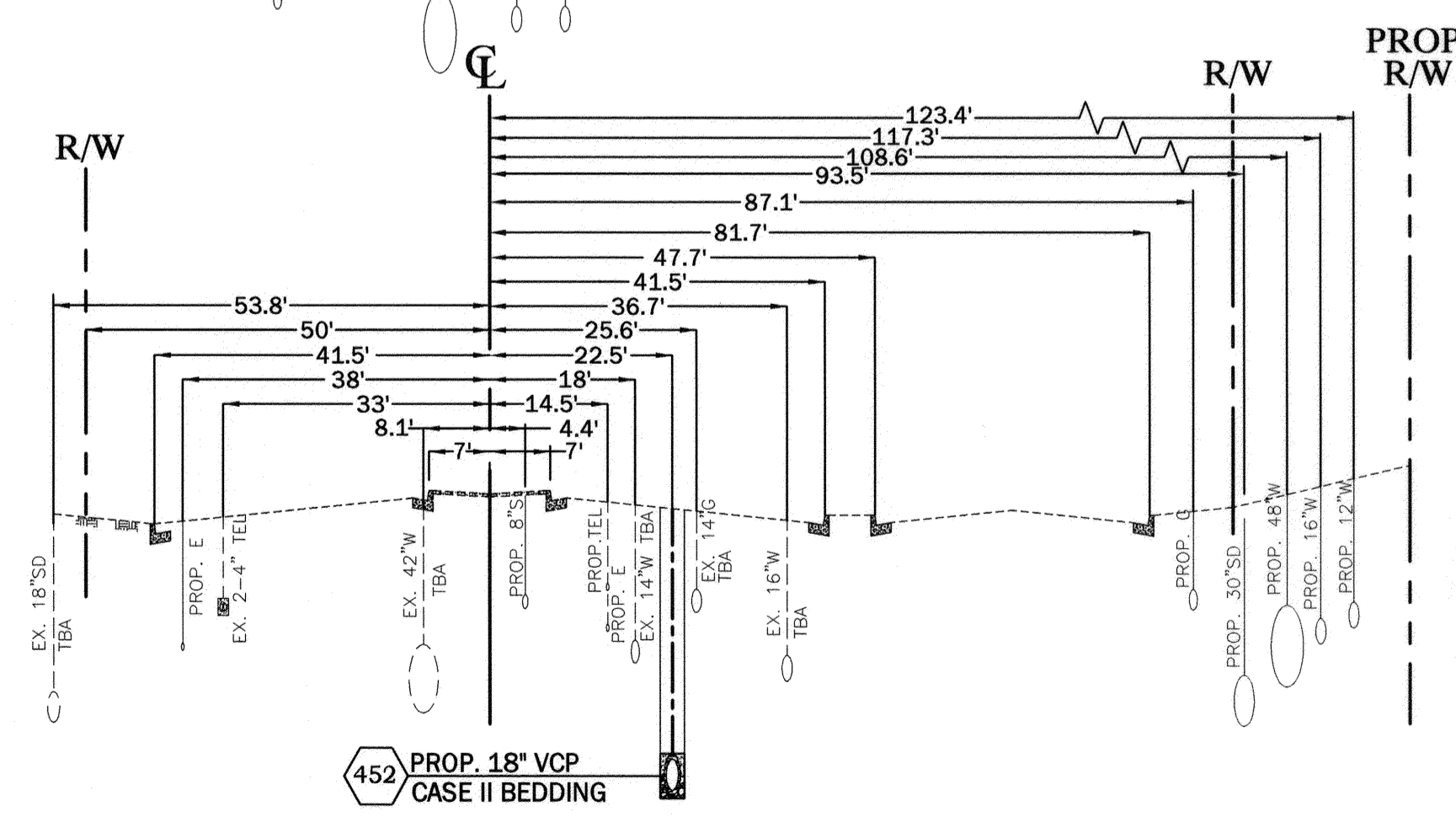


INDEX MAP

NTS



IOWA AVENUE STREET STATION 190+00 (TYP.) NO SCALE



IOWA AVENUE STREET STATION 198+50 (TYP.) NO SCALE

BENCHMARK
POINT ID - J8F2
CHISLED SQUARE AT THE TOP OF THE CATCH BASIN ON THE NORTHERLY SIDE OF THE CENTER STREET EAST OF TRANSIT AVENUE
952.77600 (NGVD 29)

ENGINEER IN RESPONSIBLE CHARGE
LONNY LEW YOUNG
R.C.E. No. 43216, expires 03-31-2014
DATE 03/02/2012

MARK	REVISIONS	APPR	DATE

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature]
BY: [Signature]
DATE: 4/6/2012
CITY ENGINEER

IOWA AVENUE GRADE SEPARATION FROM PALMYRITA AVENUE TO CITRUS STREET
SCALE: AS SHOWN

S-2088
SHEET 1 OF 3

IMPORTANT NOTICE
Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID, Number call
CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

EXISTING TOPOGRAPHY:

- ⊙ SANITARY SEWER M.H.
- ⊙ WATER GATE VALE
- ⊙ ELECTRIC M.H.
- ⊙ TELEPHONE M.H.
- ⊙ WATER METER
- ⊙ FIRE HYDRANT
- ⊙ IRRIGATION METER
- ⊙ BLOW-OFF VALVE
- ⊙ TRAFFIC SIGN
- ⊙ POWER POLE
- ⊙ GUY ANCHOR
- ⊙ STREET LIGHT ON MAST ARM
- ⊙ ELECTRICAL TEST STATION (PIPELINE)
- 🌴 PALM TREE
- 🌳 MISC. TREE
- 🏠 BUILDING
- 📏 TOP OF SLOPE
- 📏 TOE OF SLOPE
- ➡ DIRECTION DRAINAGE FLOW
- EDGE OF PAVEMENT

EXISTING UTILITIES:

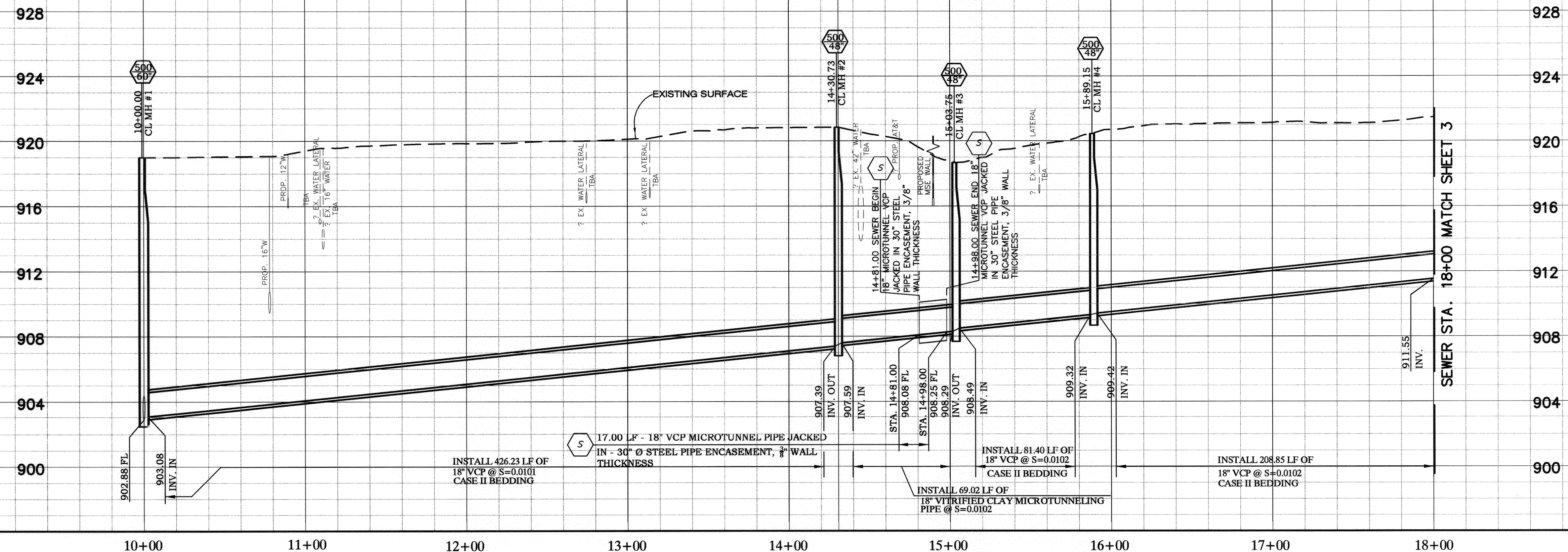
- SANITARY SEWER ——— EX SWR ———
- WATER LINE ——— EX WTR ———
- STORM DRAIN ——— EX SD ———
- UNDERGROUND ELEC. ——— (UGE) ———
- OVERHEAD ELEC. ——— (OHE) ———
- GAS ——— (G) ———
- UNDERGROUND TELE. ——— (UGT) ———
- CL — CENTER LINE
- E — ELECTRICAL
- EX — EXISTING
- G — GAS
- INV. — INVERT
- LAT — LATERAL
- LF — LINEAR FEET
- MH — MANHOLE
- PROP. — PROPOSED
- R/W — RIGHT OF WAY
- SD — STORM DRAIN
- TBA — TO BE ABANDONED

AS BUILT 9-11-15 JLC

INDEXED 9-11-15 JLC

11-200 new OS Sewer Palmyrita to Citrus_L Design Plans Sewer(CAD)Improvement Plans S2088-01.dwg 03/02/2012 08:27

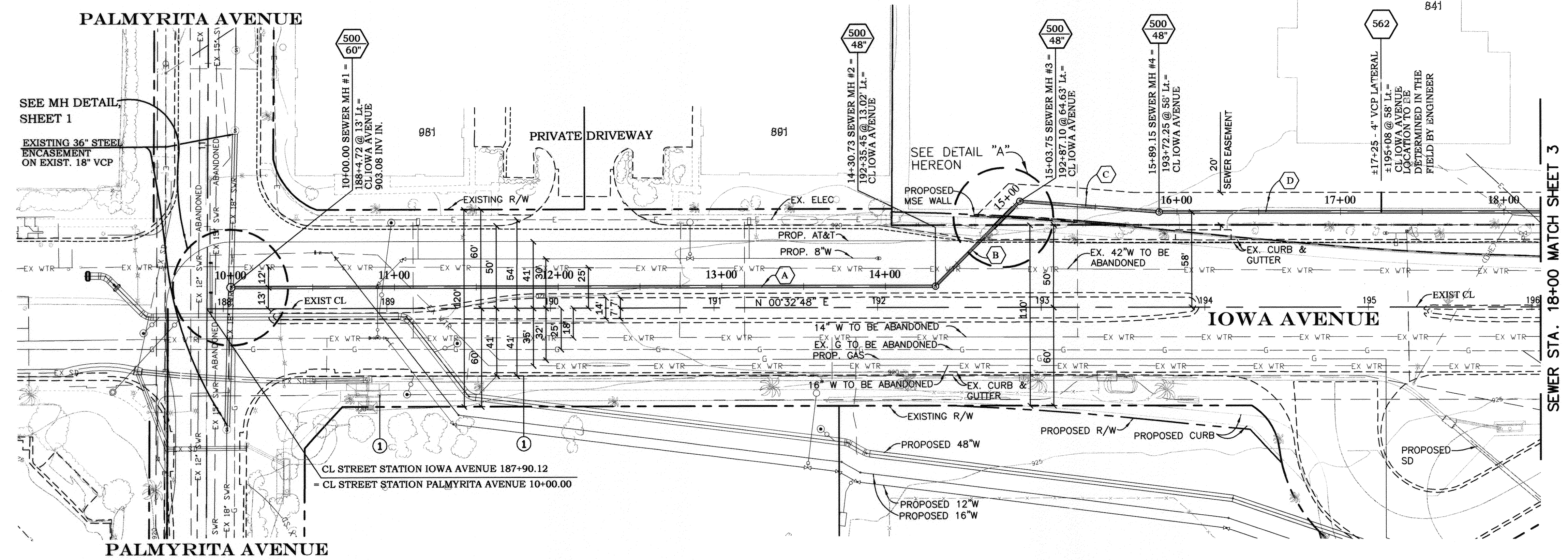
IMPORTANT NOTICE
 Section 4219.0217 of the Government Code requires a Dig Alert Identification Number to be placed before a "Permit to Excavate" will be valid. For your dig alert ID, please call TOLL FREE 48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
 1-800-227-2600



TBA - TO BE ABANDONED
 HORZ. SCALE: 1" = 40'
 VERT. SCALE: 1" = 4'

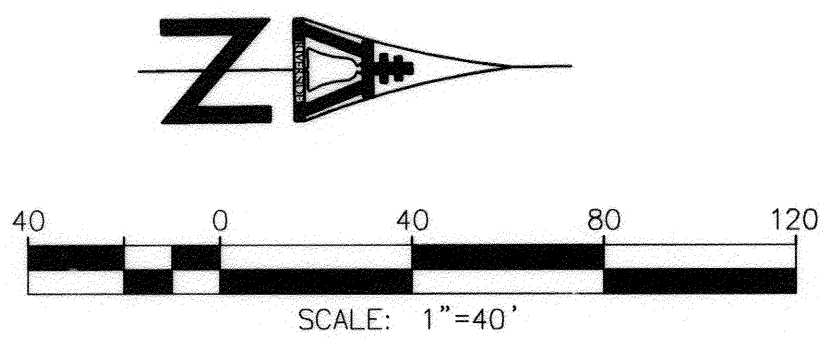
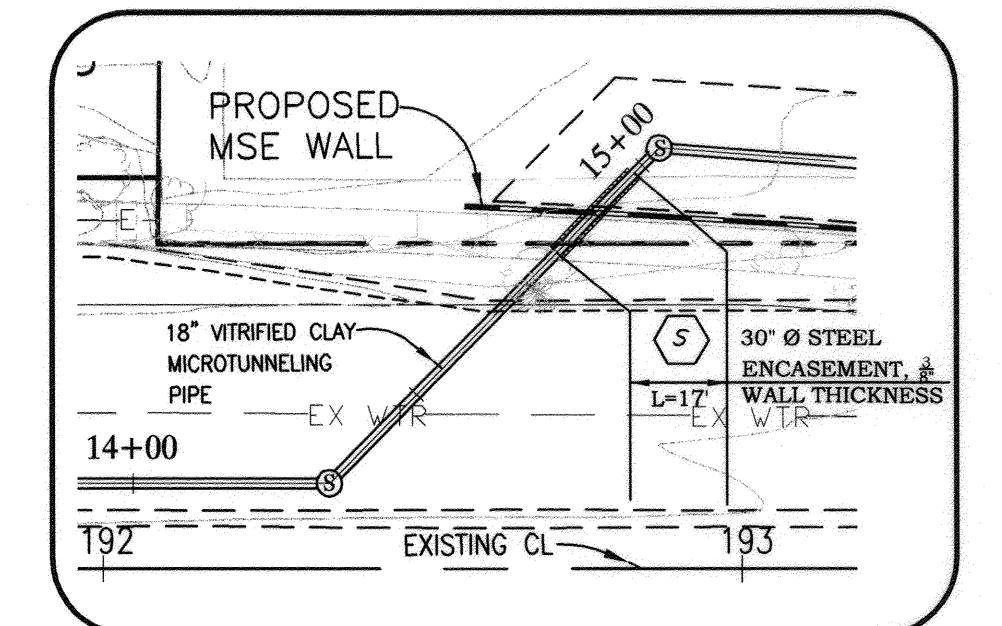
SUPERSEDED, SEE SHEET 2A

LINE & CURVE DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
(A)	N 00°32'48" E	-	430.73'	-
(B)	N 44°25'49" W	-	69.31'	-
(C)	N 05°00'01" E	-	85.41'	-
(D)	N 00°32'48" E	-	210.85'	-



SPECIFIC CONSTRUCTION NOTES

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BENCHMARK
 POINT ID - J8F2
 CHISLED SQUARE AT THE TOP OF THE CATCH BASIN ON THE NORTHERLY SIDE OF THE CENTER STREET EAST OF TRANSIT AVENUE
 952.77600 (NGVD 29)

ENGINEER IN RESPONSIBLE CHARGE
 LONNY LEW YOUNG
 R.C.E. No. 43216 expires 03-31-2014
 DATE 03/07/2012

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]
 BY DATE: 4/6/2012
 INSPECTOR: [Signature]
 SURVEYOR: [Signature]
 ENGINEERING MANAGER: [Signature]

IOWA AVENUE GRADE SEPARATION
IOWA AVENUE SEWER
 FROM PALMYRITA AVENUE TO CITRUS STREET

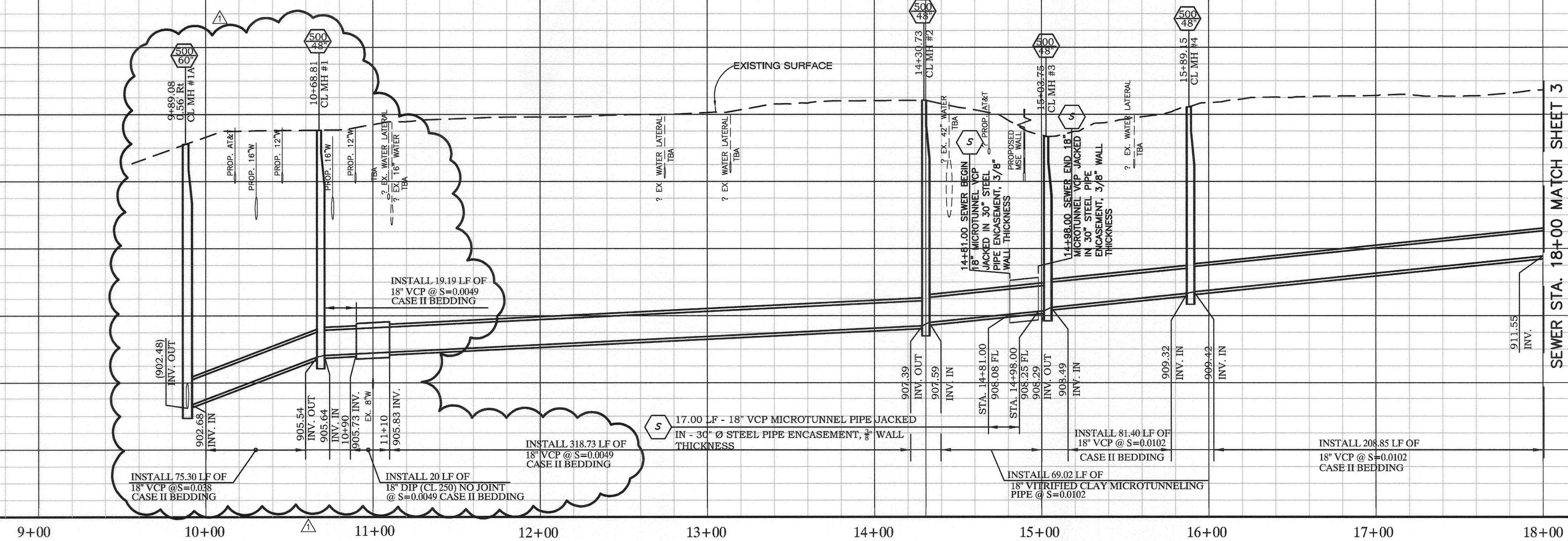
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4' SHEET 2 OF 3

ACC. No. 9589923203
 W.D. 1119480
S-2088
 INDEXED 9-11-15 JR



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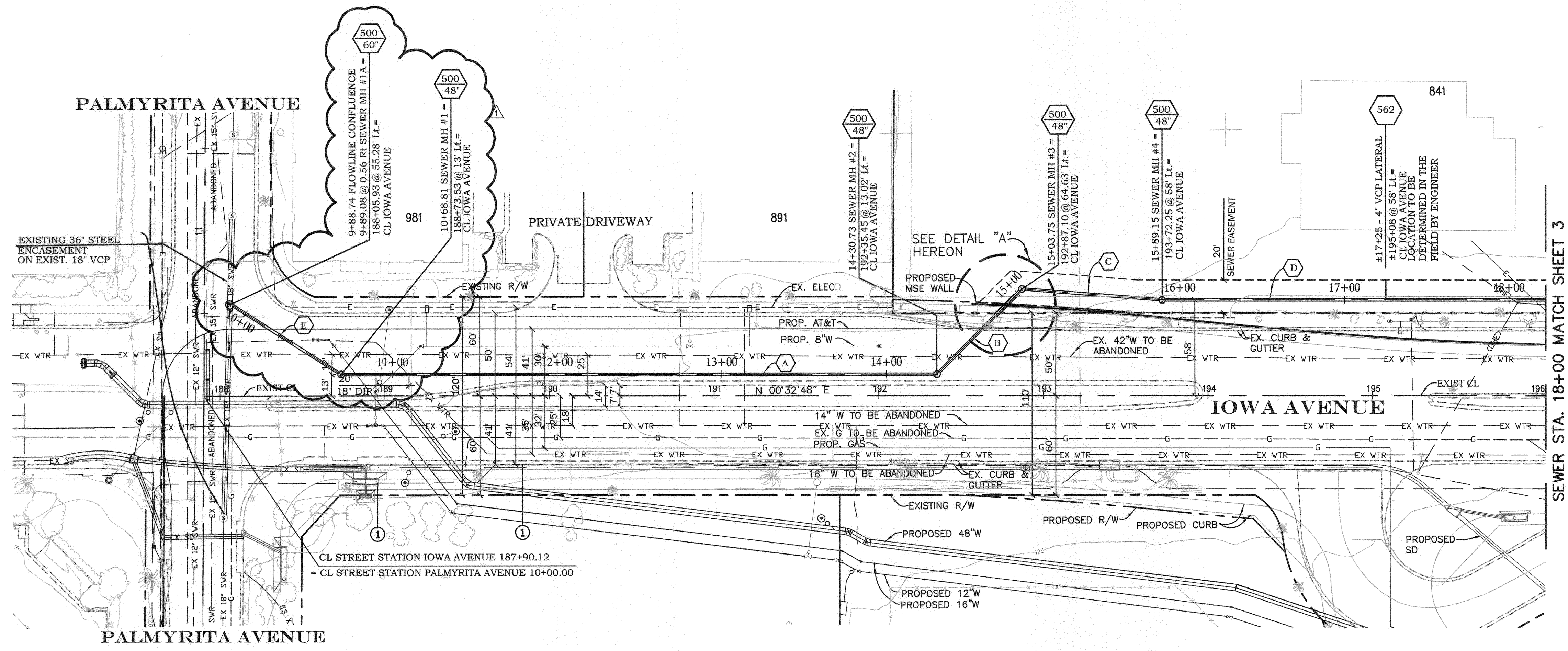
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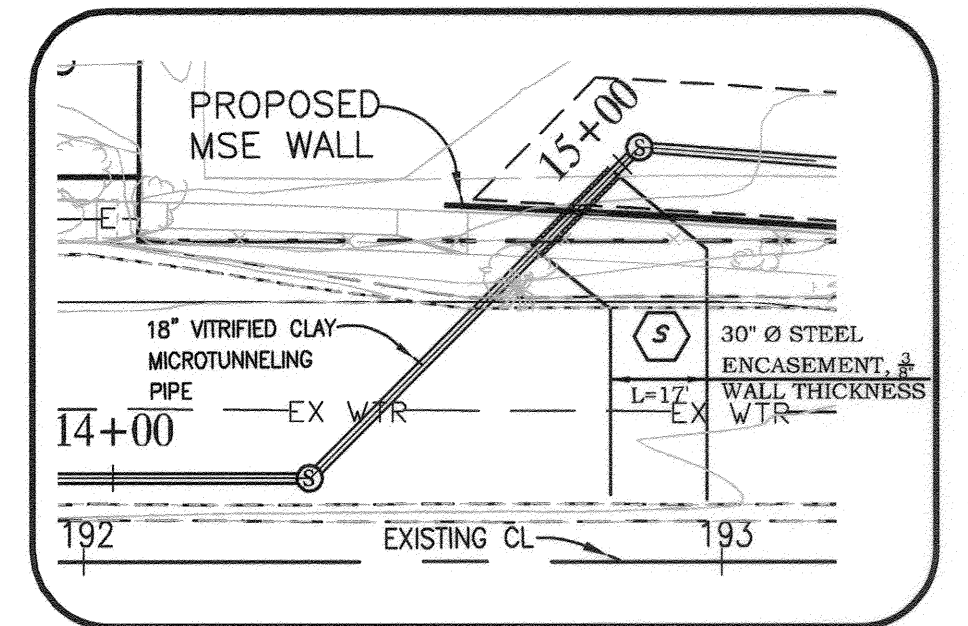
9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00

LINE & CURVE DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
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(D)	N 00°32'48" E	-	210.85'	-
(E)	N 32°25'38.56" E	-	80.07'	-

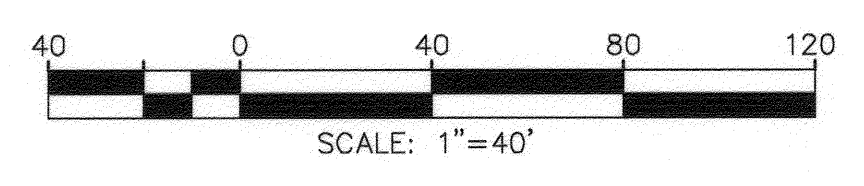
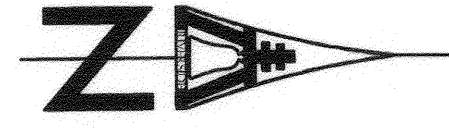


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DETAIL A
SCALE 1:30



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952.77600 (NGVD 29)

ENGINEER IN RESPONSIBLE CHARGE
LONNY LEW YOUNG
R.C.E. No. 43216 expires 03-31-2014
DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
INSPECTOR		
SUPERVISOR		
ENGINEERING MANAGER		

DESIGNED BY SP DRAWN BY SP CHECKED BY LLY

REVISED SEWER ALIGNMENT FROM STA. 9+40.06 TO 10+45
10/18/12

IOWA AVENUE GRADE SEPARATION
IOWA AVENUE SEWER
FROM PALMYRITA AVENUE TO CITRUS STREET
HORZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'
SHEET 2A OF 3

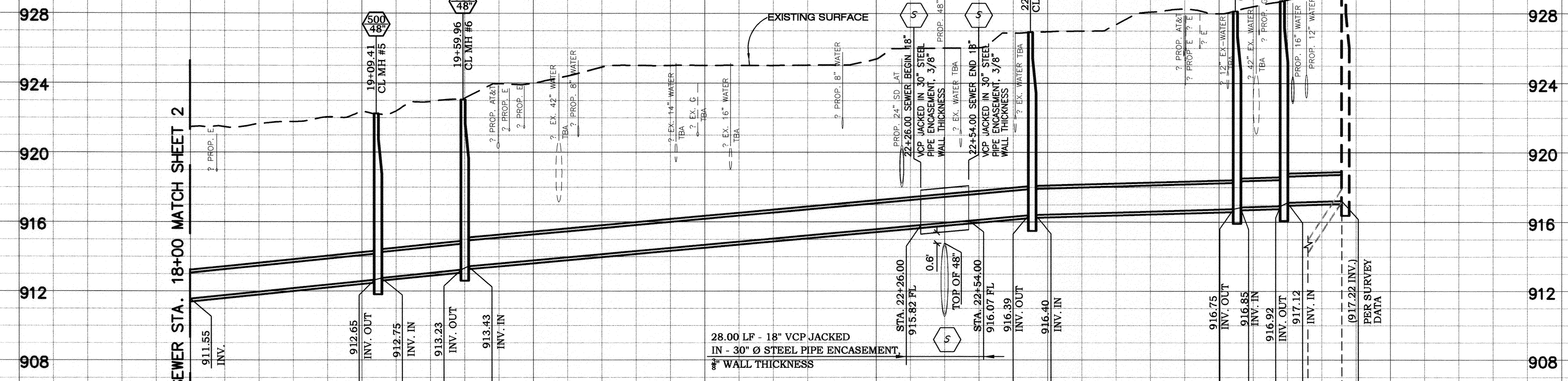
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W.O. 1119480

S-2088

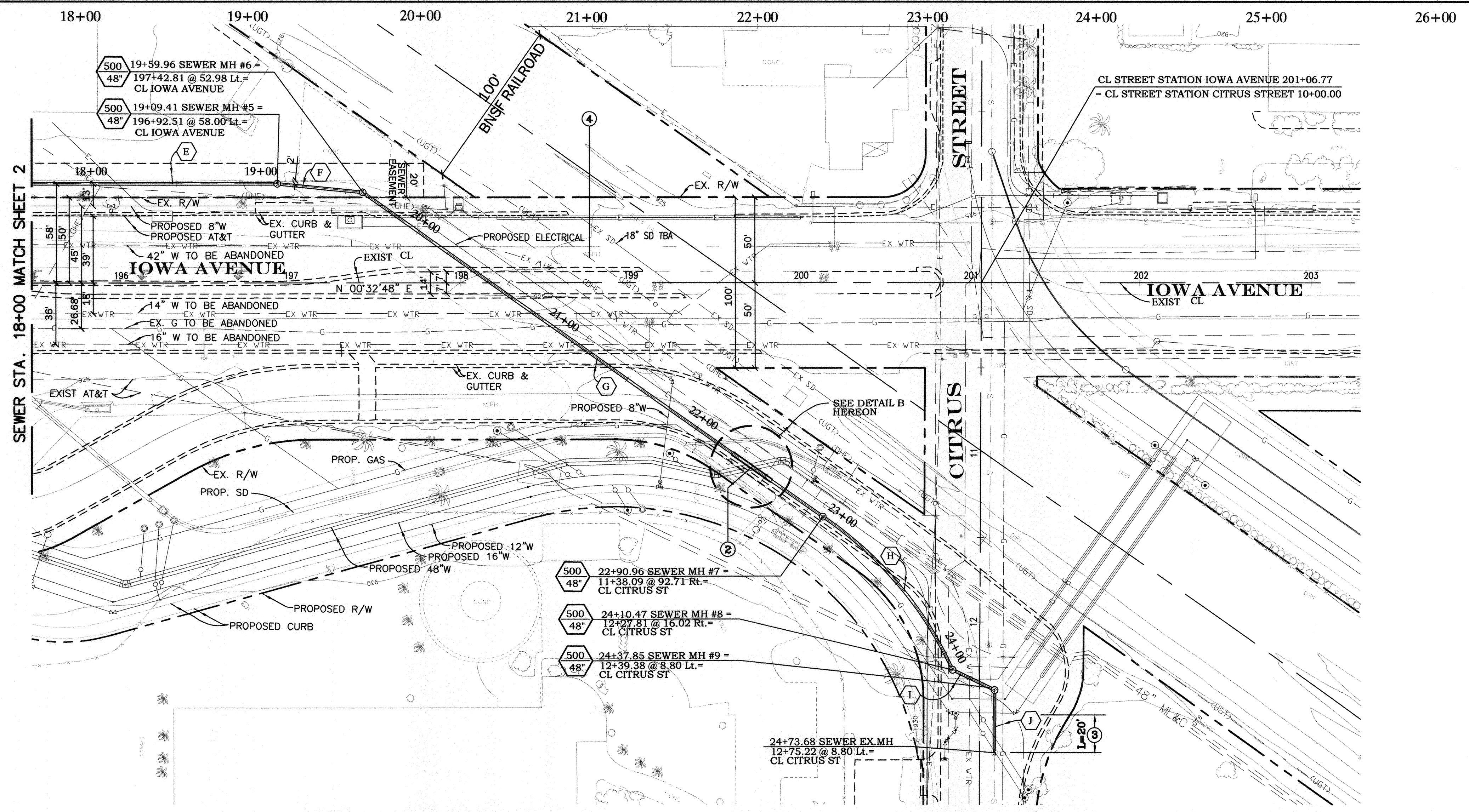
INDEXED 9-11-15 JG

C:\Admin\Common\Design\Projects\11-020 Iowa Ave Sewer Palmyrita to Citrus\Design\Plans\Sewer\Utility\Improvement\Plans\S2088-02 Rev01 2012-10-18.dwg 10/18/2012 14:00

IMPORTANT NOTICE
 Section 43194.017 of the Government Code requires a Dig Alert Identification Number to be placed before any excavation work. For your Dig Alert, call 800-480-3437. Call Toll Free 48 HOURS BEFORE YOU DIG. **UNDERGROUND SERVICE ALERT 1-800-227-2600**



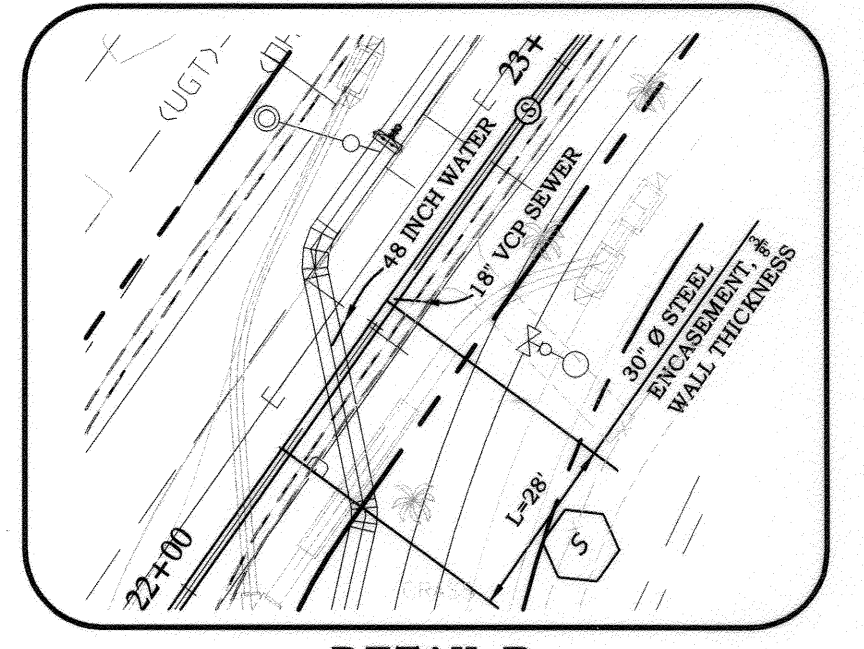
TBA - TO BE ABANDONED
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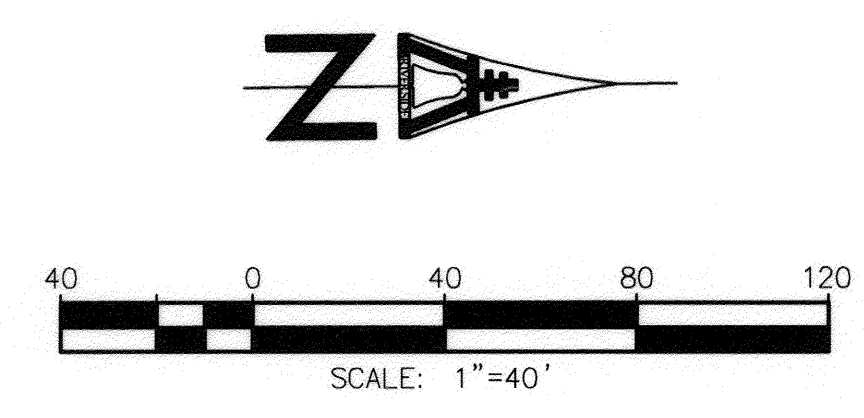
SEWER LINE & CURVE DATA				
NO.	BEARING/Delta	RADIUS	LENGTH	TANGENT
(E)	N 00°32'48" E	-	109.41'	-
(F)	N 06°14'34" E	-	50.54'	-
(G)	N 35°42'43" W	-	331.00'	-
(H)	31°18'05"	218.75'	119.51'	61.28'
(I)	N 25°49'52" E	-	27.38'	-
(J)	N 89°10'53" W	-	35.83'	-

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- 4. PROTECT IN PLACE EXISTING TELEPHONE 4" CONDUIT WITH 2-FIBER OPTIC CABLES (6" STEEL CASING).



AS BUILT 9-11-15 ID
 SCALE 1:30



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LONNY LEW YOUNG
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 DATE 03/01/2012

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY	BY DATE	APPROVED BY
INSPECTOR	02/02/12	[Signature]
SURVEYOR	02/02/12	[Signature]
ENGINEERING MANAGER	02/02/12	[Signature]

DATE 4/6/2012

IOWA AVENUE GRADE SEPARATION
IOWA AVENUE SEWER
 FROM PLAMYRITA AVENUE TO CITRUS STREET

ACC. No. 9589923203
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S-2088

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