

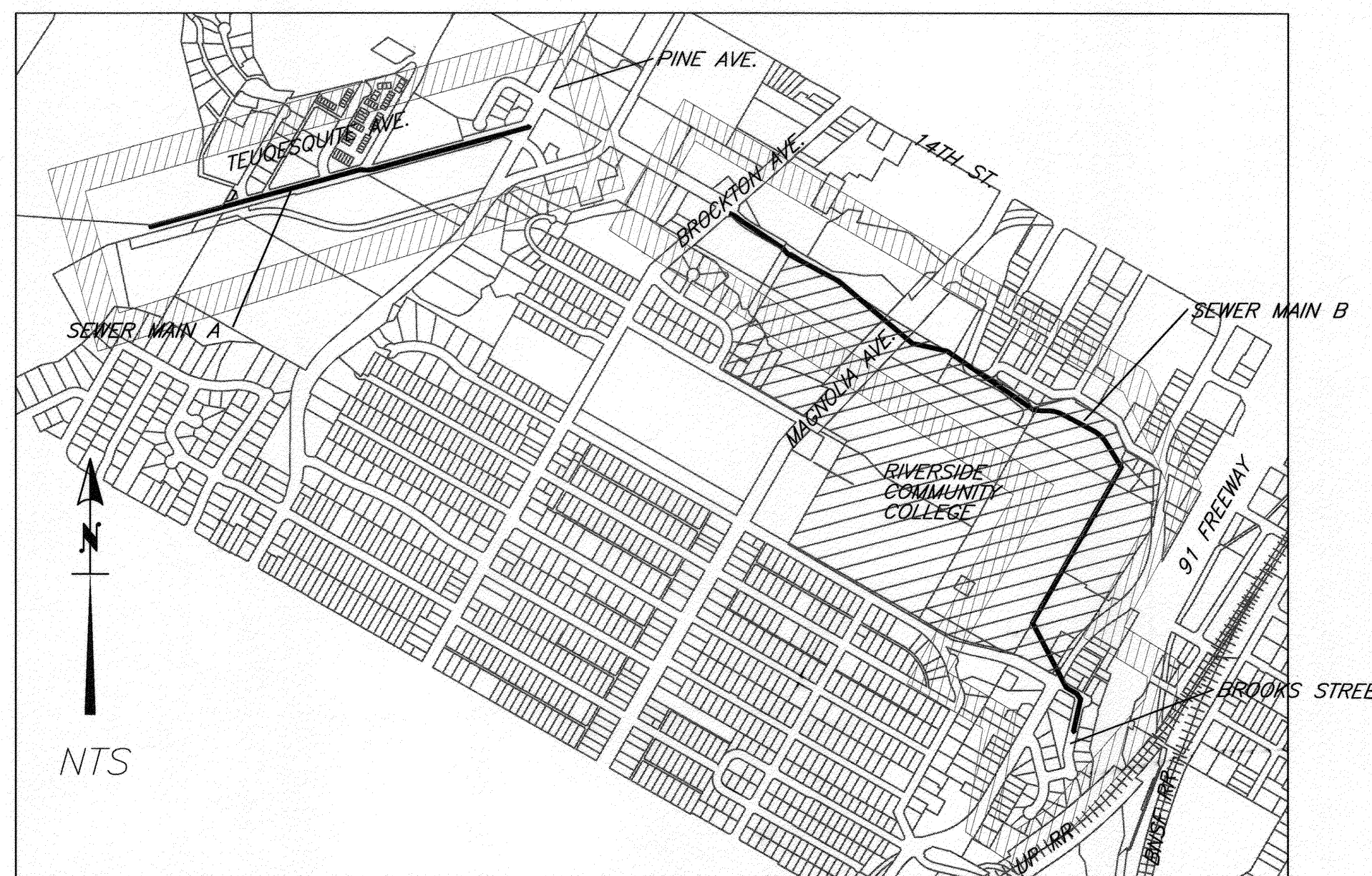
GENERAL NOTES

- NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT, OR STREET OPENING PERMIT, OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AT NO COST TO THE CITY.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
- EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM PUBLIC RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN.
- CONTRACTOR SHALL IDENTIFY ALL UTILITY CONFLICTS WITH PROPOSED CONSTRUCTION AND NOTIFY PRIVATE ENGINEER AND CITY ENGINEER FOR RESOLUTION PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600, TWO WORKING DAYS PRIOR TO DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS APPLICANT HAS BEEN PROVIDED WITH AN INQUIRY IDENTIFICATION NUMBER BY USA.
- BACKFILLING OF TRENCH SHALL BE DONE PER CITY OF RIVERSIDE STANDARD DRAWING 453 UNLESS OTHERWISE SPECIFIED.
- 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.
- CONTRACTOR SHALL REPLACE ALL EXISTING TRAFFIC DETECTOR LOOPS AFFECTED BY CONSTRUCTION.
- CONTRACTOR SHALL RELOCATE ALL TRAFFIC SIGNS, REMOVED DUE TO CONSTRUCTION, PER CITY STANDARDS. ALL TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO OPENING THE STREETS TO TRAFFIC.
- ANY EXISTING HARDSCAPE AND/OR LANDSCAPE REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED IN KIND & EQUIVALENT SIZE BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY ENGINEER.
- CONTRACTOR SHALL MAINTAIN ACTIVE SEWER FLOW IN EXISTING MAINS AS NECESSARY THROUGHOUT CONSTRUCTION PROCESS, EXCEPT WHERE OTHERWISE NOTED, UNTIL SUCH TIME AS THE NEW SEWER MAIN HAS BEEN APPROVED AND ACCEPTED BY THE CITY ENGINEER.
- DEMOLITION AND REMOVAL OF CONFLICTING FACILITIES TO THE EXTENT KNOWN IS SHOWN ON DEMOLITION PLANS.

RIVERSIDE CITY OF RIVERSIDE CALIFORNIA

PUBLIC WORKS DEPARTMENT
TEQUESQUITE ARROYO
TRUNK SEWER
IMPROVEMENT PROJECT
PHASE 1

TEQUESQUITE AVE. TO BROOKS ST.



PROJECT LOCATION MAP

EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

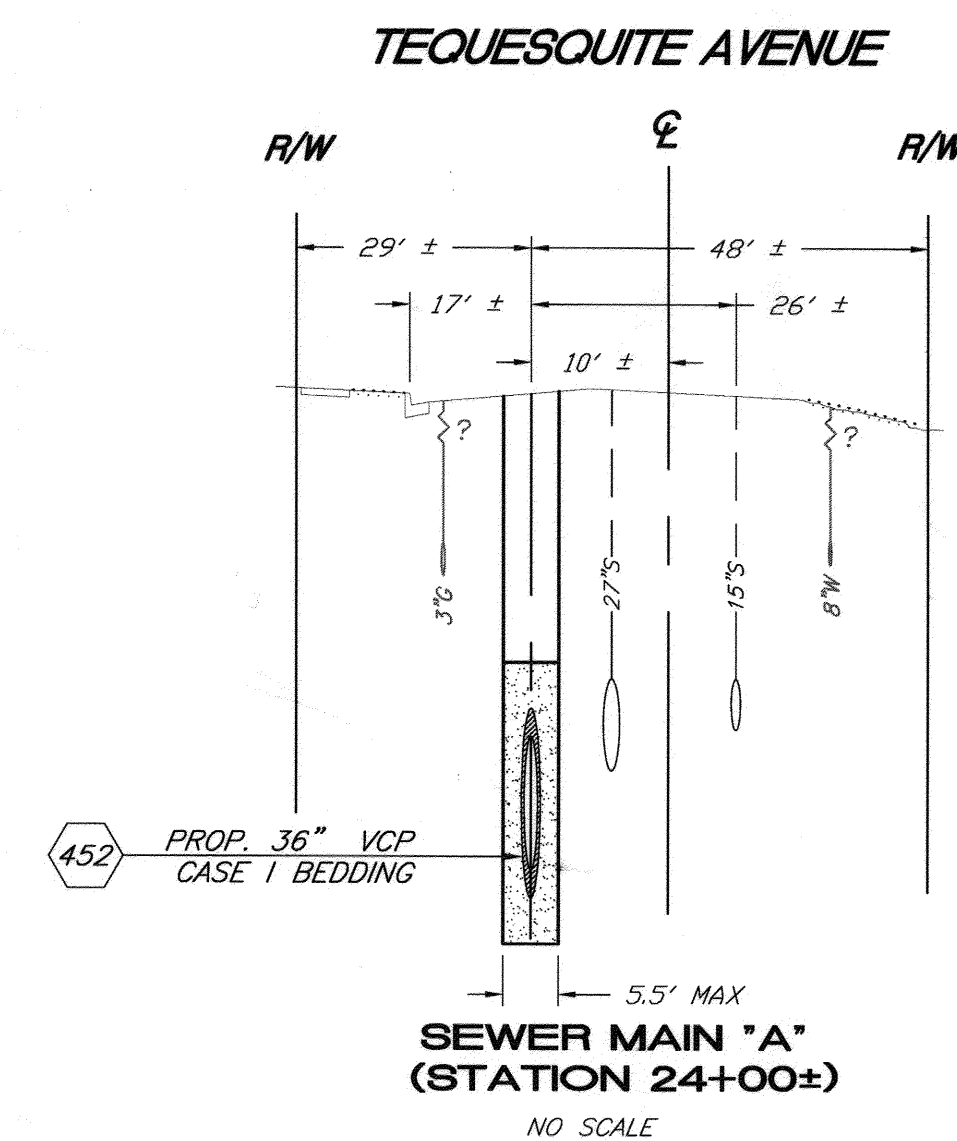
EXISTING UNDERGROUND UTILITIES:

SANITARY SEWER ----- 8" S -----	TELEPHONE ----- T -----
WATER LINE ----- 12" W -----	ELECTRICAL CONDUIT ----- E -----
STORM DRAIN ----- 10" SD -----	GAS LINE ----- 3" G -----
FIBER OPTIC ----- FO -----	OVERHEAD ELECTRICAL ----- OHE -----
RCC COMMUNICATIONS ----- RCC COM -----	UNDERGROUND ELECTRICAL ----- UGE -----
UNDERGROUND TELEVISION ----- UGTV -----	OVERHEAD TELEPHONE ----- OHTV -----
UNDERGROUND TELEPHONE ----- UGT -----	

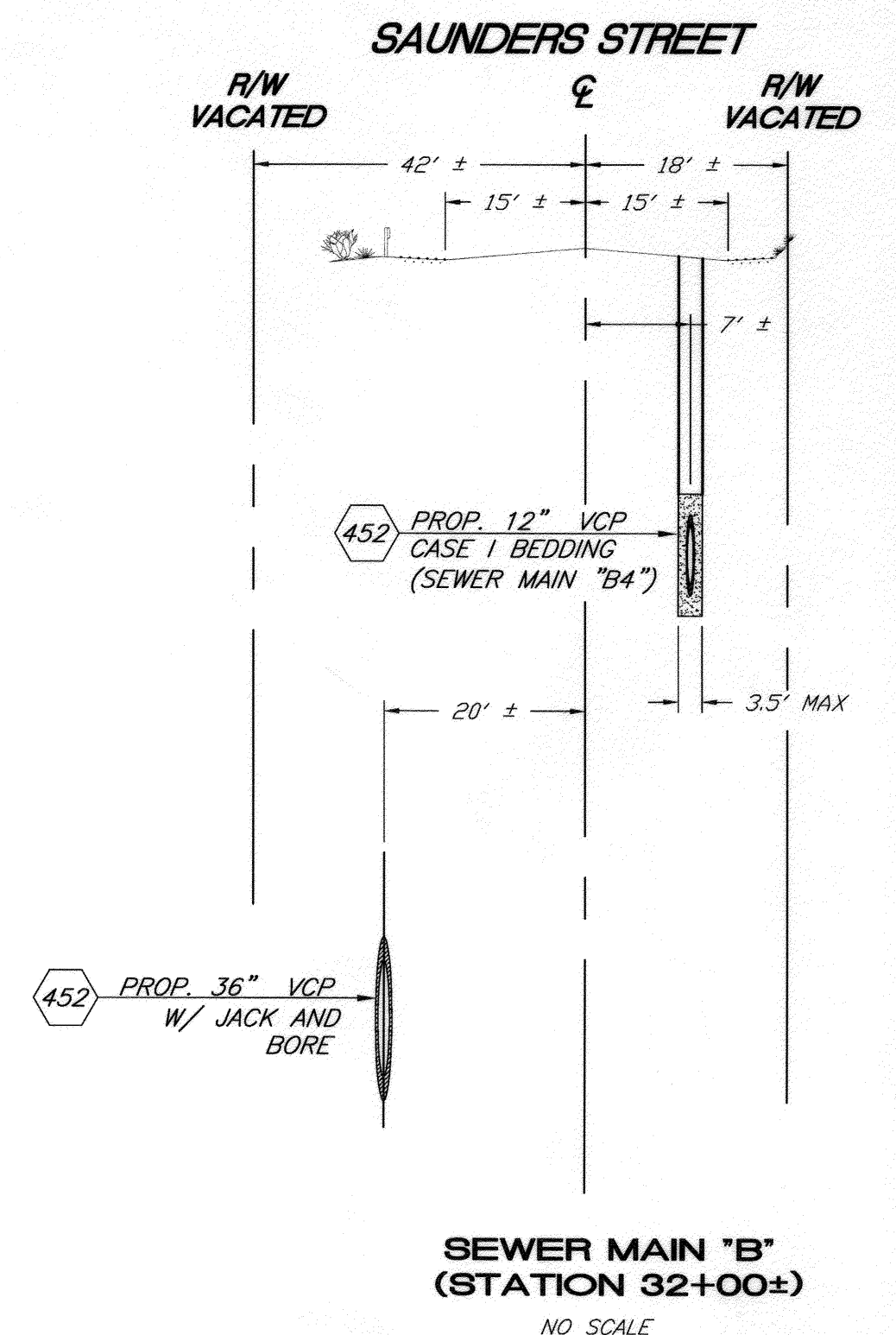
EXISTING TOPOGRAPHY:

FENCING ----- X X X X -----	RAILROAD ++++++
RETAINING WALL ----- W -----	TOPOGRAPHICAL CONTOUR ----- 760 -----
STREAM CHANNEL ----- S -----	GUARD RAIL ----- GR -----
R/W AND PARCEL LINES ----- PL -----	PAVEMENT EDGE ----- PE -----
	CURB FACE ----- CF -----

TRAFFIC SIGNAL BOX	STREET SIGN
GAS MANHOLE	STORM DRAIN MH
TELECOM MANHOLE	SEWER MH, PROPOSED OR MODIFIED
TRAFFIC SIGNAL	SEWER MH, EXISTING
TELEPHONE BOX	STREET LIGHT
POWER POLES	WATER VALVE
MONUMENT	MISC MANHOLE
STORM DRAIN INLET	PULL BOX
EDGE OF PAVEMENT	FIRE HYDRANT
PALMS	CONTROL
SPORT FIELD LIGHTPOLE	TREES AND SHRUBS
	PARKING LOT LIGHTING



SEWER MAIN "A"
(STATION 24+00±)
NO SCALE



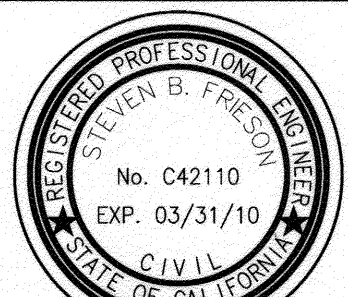
SEWER MAIN "B"
(STATION 32+00±)
NO SCALE

BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
ELEV - 753.831

IMPORTANT NOTICE
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BIRGE ENGINEERING, INC.
600 N. MOUNTAIN AVENUE, SUITE B204
UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 12/11/2009



DESIGNED BY	DRAWN BY	CHECKED BY
APPROVED BY	DATE	DATE
PRINCIPAL ENGINEER	INSPECTOR	SUPERVISOR
ENGINEERING MANAGER		

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
PHASE 1
TITLE SHEET
SCALE: AS SHOWN

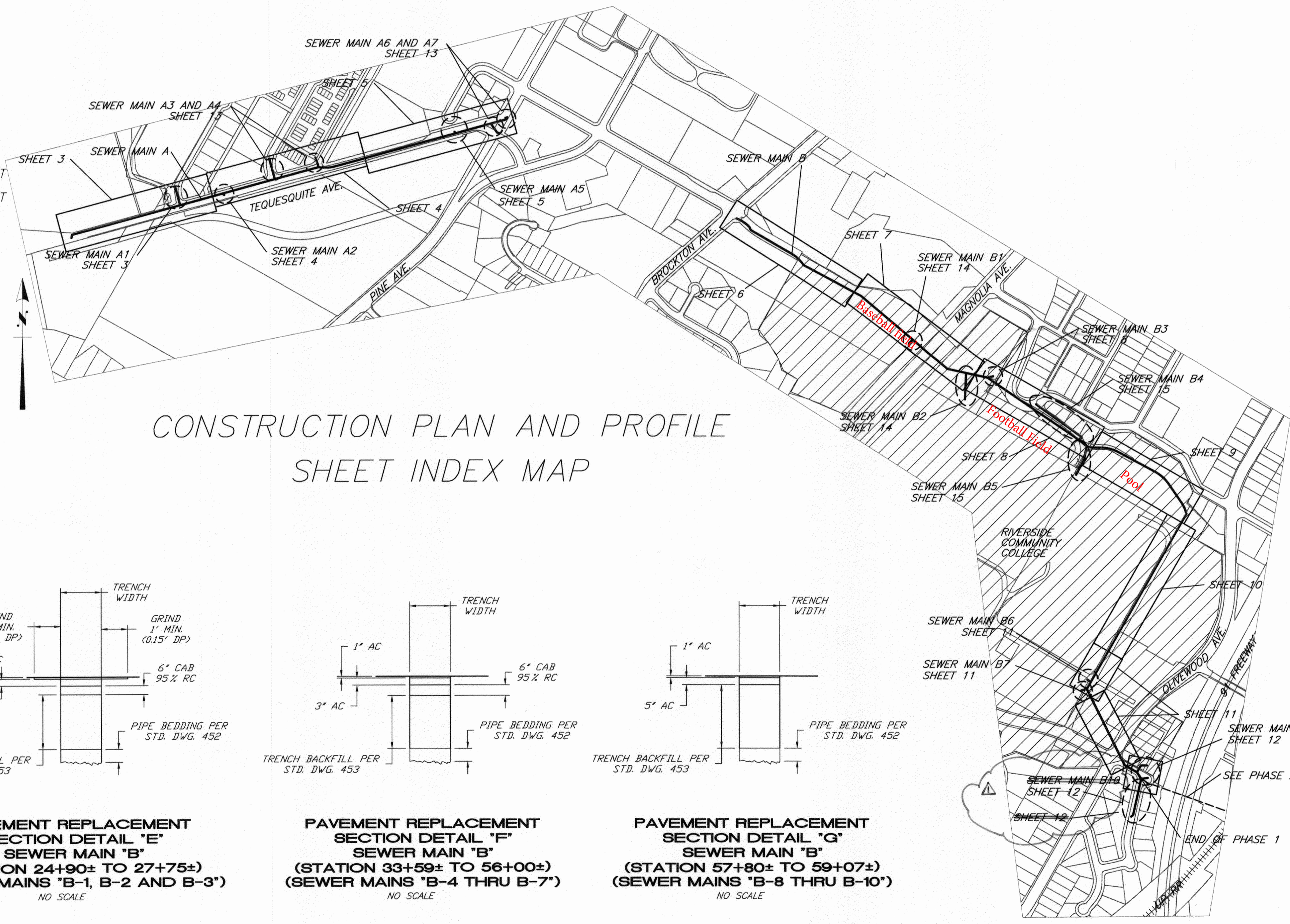
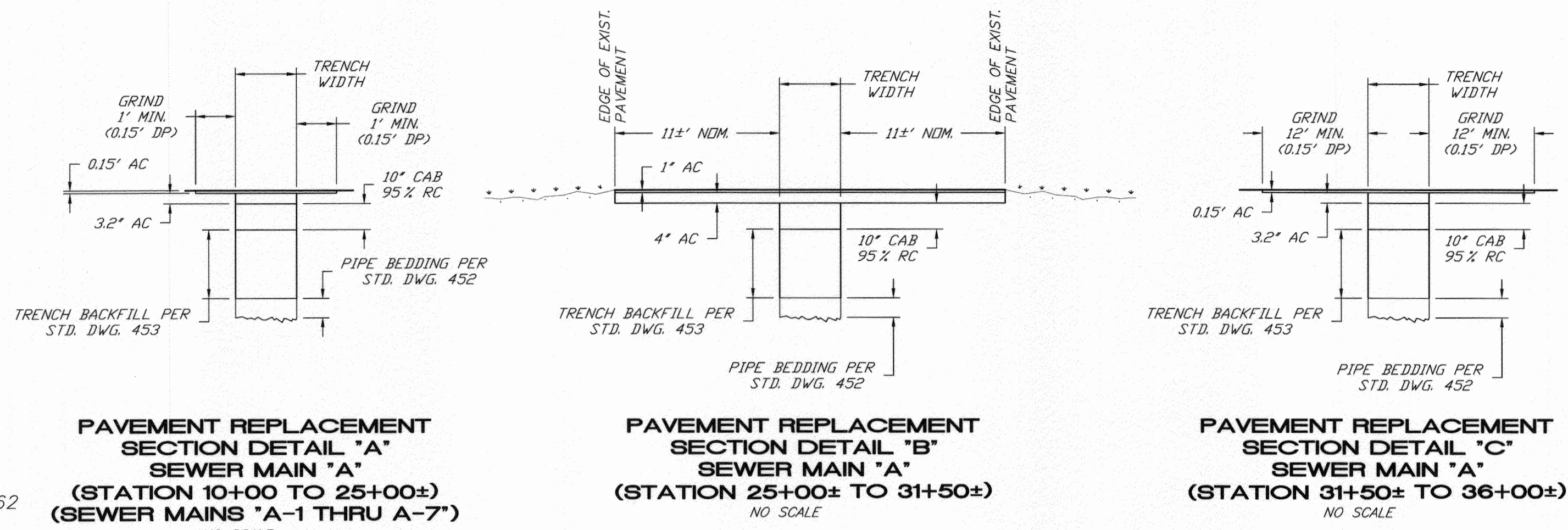
ACC. No. _____
W.O. _____
S-2074
SHEET 1 OF 29

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As-Built 02-02-2017

SHEET INDEX

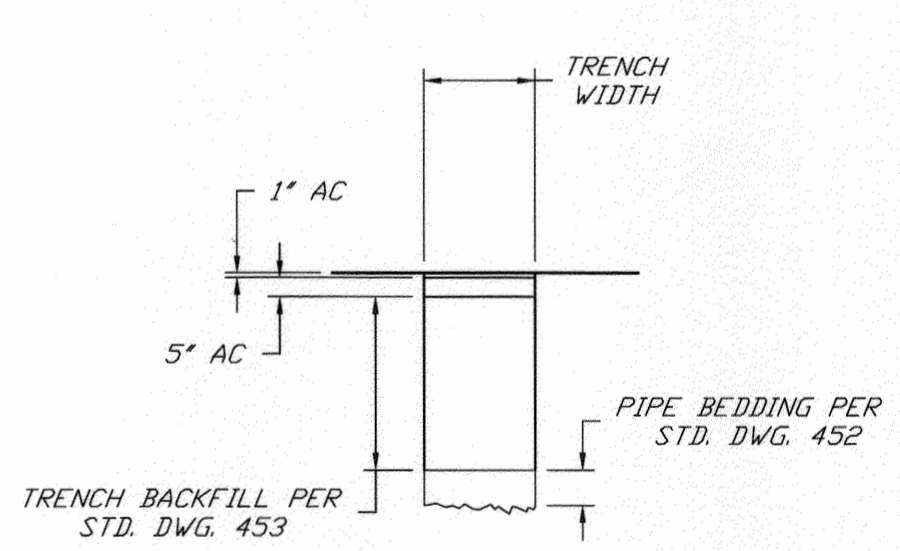
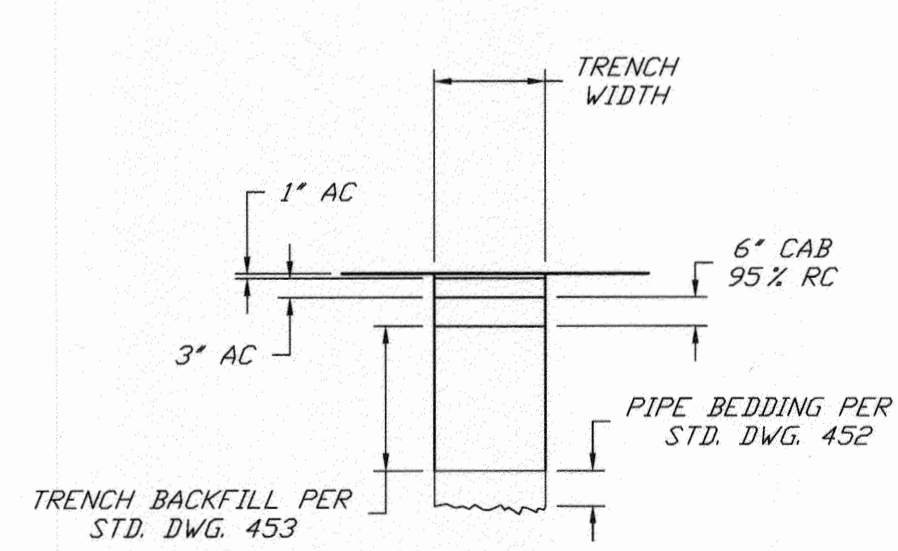
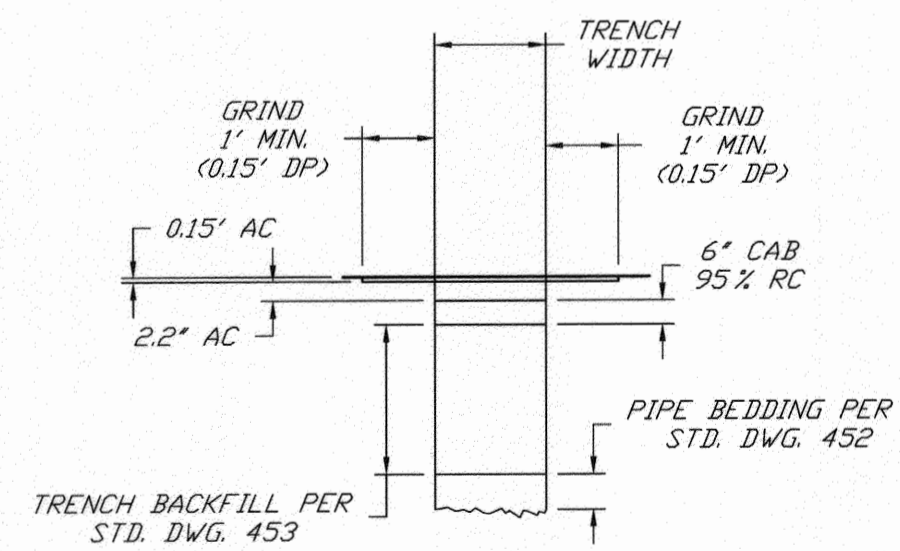
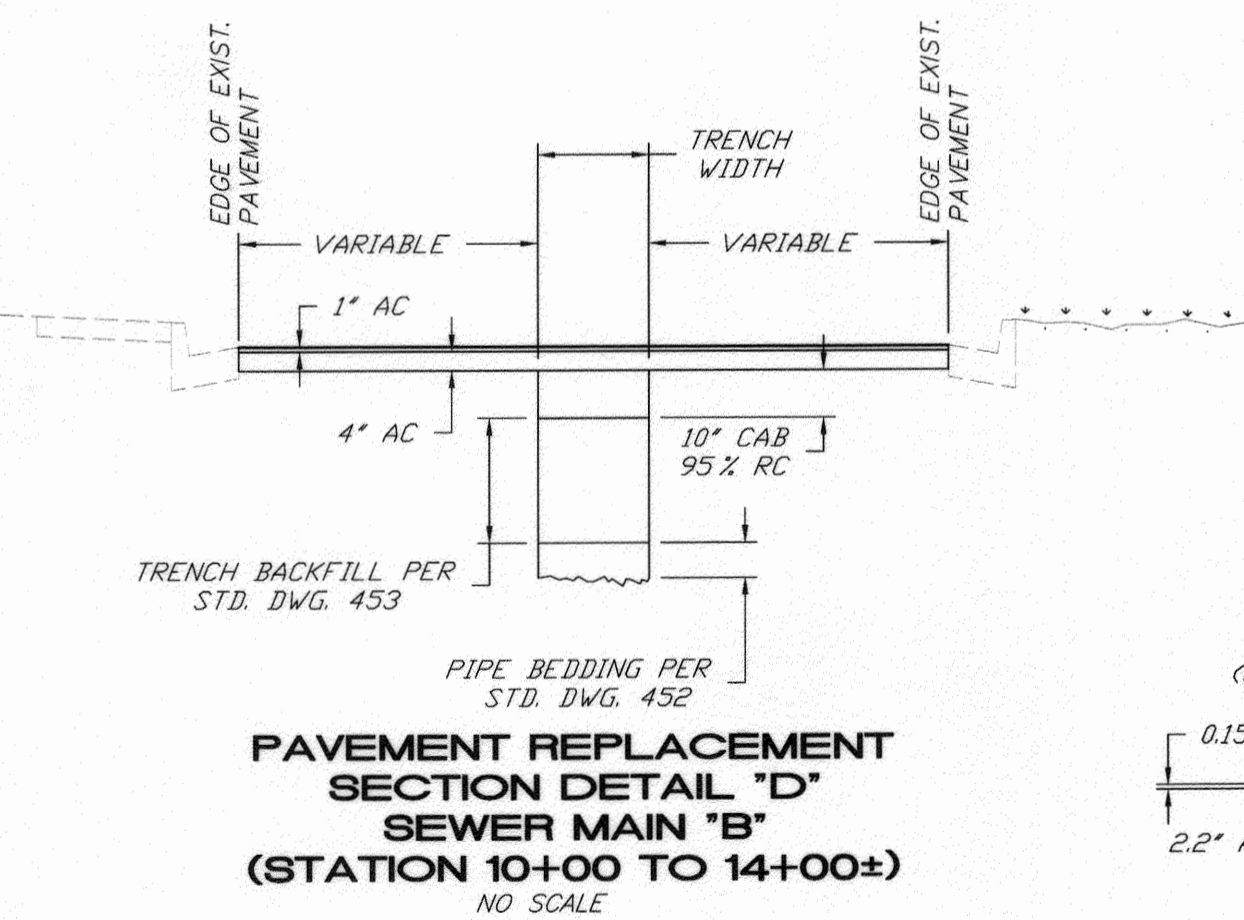
SHT. NO.	SHT. TITLE
1	TITLE SHEET
2	CONSTRUCTION SHEET INDEX MAP
3	SEWER MAIN A AND A1 - FROM STATION 10+00.00 TO STATION 18+50.00
4	SEWER MAIN A AND A2- FROM STATION 18+50.00 TO STATION 27+50.00
5	SEWER MAIN A AND A5- FROM STATION 27+50.00 TO STATION 36+98.54
6	SEWER MAIN B - FROM STATION 10+00.00 TO STATION 18+00.00
7	SEWER MAIN B - FROM STATION 18+00.00 TO STATION 26+50.00
8	SEWER MAIN B AND B3 - FROM STATION 26+50.00 TO STATION 34+50.00
9	SEWER MAIN B - FROM STATION 34+50.00 TO STATION 42+00.00
10	SEWER MAIN B - FROM STATION 42+00.00 TO STATION 50+50.00
11	SEWER MAIN B, B6 AND B7 - FROM STATION 50+50.00 TO STATION 58+00.00
12	SEWER MAIN B, B8, B9 AND B10 - FROM STATION 58+00.00 TO STATION 59+07.62
13	SEWER MAIN A3, A4, A6 AND A7 - TEQUESQUITE AVENUE
14	SEWER MAIN B1 AND B2 - RIVERSIDE COMMUNITY COLLEGE
15	SEWER MAIN B4 AND B5 - RIVERSIDE COMMUNITY COLLEGE
16	CONSTRUCTION DETAILS - JUNCTION BOX #1
17	CONSTRUCTION DETAILS - JUNCTION BOX #2
18	JACK AND BORE DETAILS
19	PROPOSED SEWER MAIN "A" CENTER LINE ALIGNMENT
20	PROPOSED SEWER MAIN "B" CENTER LINE ALIGNMENT
21	PROPOSED SEWER MAIN "B" CENTER LINE ALIGNMENT
22	DEMOLITION PLAN - SHEET INDEX MAP
23	EXISTING SEWER DEMOLITION - TEQUESQUITE ARROYO
24	EXISTING SEWER DEMOLITION - RCC AND SAUNDERS STREET
25	EXISTING SEWER DEMOLITION - RCC AND SAUNDERS STREET
26	EXISTING SEWER DEMOLITION - RCC AND BROOKS STREET
27	TEMPORARY CONSTRUCTION EASEMENT LIMITS
28	TEMPORARY CONSTRUCTION EASEMENT LIMITS
29	STORM DRAIN LATERAL RECONSTRUCTION



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 SEWER MAIN TO REMAIN IN SERVICE.
- 2 PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO VERIFY LOCATION. PROTECT WATER UTILITY IN PLACE. IF RELOCATION IS REQUIRED CONTRACTOR IS TO NOTIFY THE WATER UTILITY ENGINEER. THE WATER UTILITY SHALL HAVE 30 BUSINESS DAYS TO RELOCATE THE INTERFERING FACILITIES.
- 3 PROTECT AND MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION.
- 4 RE-CONSTRUCT EXISTING STORM DRAIN LATERAL PER INDICATED DETAIL.
- 5 PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
- 6 RECONNECT LATERALS PER STD. DWG. 554 OR REPLACE PER STD. DWG. 562 AND PER SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY LATERAL LOCATION AND CONNECTION.
- 7 CONSTRUCT 1' STUB FOR FUTURE 36" VCP CONNECTION. CAP PER SPECIFICATIONS.
- 8 MODIFY EXISTING MANHOLE INLET OR OUTLET AND RESHAPE BOTTOM PER INDICATED MANHOLE SCHEMATIC DETAIL.
- 9 MODIFY EXISTING JUNCTION BOX PER INDICATED MANHOLE SCHEMATIC DETAIL.
- 10 REMODEL EXISTING MANHOLE BY CONSTRUCTING NEW BOTTOM, CHANNELS AND SHELVES OVER THE EXISTING. REMOVE TOP 3" OF EXISTING BOTTOM PRIOR TO CONSTRUCTING NEW BOTTOM.
- 11 CONSTRUCT PROPOSED MANHOLE PER INDICATED MANHOLE SCHEMATIC DETAIL.
- 12 PROTECT AND SUPPORT EXISTING STORM CHANNEL IN PLACE.
- 13 PROTECT EXISTING RETAINING WALL IN PLACE.
- 14 CONSTRUCT 1' STUB FOR FUTURE 8" VCP CONNECTION. CAP PER SPECIFICATIONS.
- 15 STORM DRAIN LATERAL LOCATED PER AS-BUILT, NOT FIELD VERIFIED.
- 16 ACTIVATE 36" SEWER MAIN "B" BETWEEN MH#4 AND DOWNSTREAM CONNECTION IN TEQUESQUITE AND BROCKTON BEFORE FINAL CONSTRUCTION OF THE CONNECTION AT MH#3 AND SEWER MAIN "B1". DEMOLISH AFFECTED EXISTING SEWER MAINS PER DEMOLITION PLANS AND SPECIFICATIONS.
- 17 REFER TO SHEETS 16 AND 17 FOR JUNCTION BOX CONSTRUCTION PLAN AND DETAILS.
- 18 PROTECT FENCING, TRACK AND BASEBALL FIELD TURF WHERE POSSIBLE. REPLACE ANY DAMAGED FENCING, TRACK OR BASEBALL FIELD TURF PER SPECIFICATIONS.
- 19 INSTALL 18" DIA (250" WALL) STEEL SLEEVE, 20LF CONTINUOUS (NO JOINTS), CASE I BEDDING PER STD. DWG. 452 AND DETAIL ABOVE.
- 20 EXISTING 42" STORM DRAIN TO BE DEMOLISHED AND REPLACED BY OTHERS PER CITY OF RIVERSIDE STORM DRAIN DRAWING D-838.
- 21 INSTALL CONCRETE COLLAR PER STD. DWG. ~~424~~ CONTRACTOR TO FIELD VERIFY STORM DRAIN LATERAL LOCATION.
- 22 CONSTRUCT NEW MANHOLE PER INDICATED MANHOLE SCHEMATIC DETAIL.
- 23 CONSTRUCT JUNCTION BOX PER INDICATED CONSTRUCTION DETAIL AND MANHOLE SCHEMATIC DETAIL.
- 24 REPLACE REMOVED OR DAMAGED FENCING OR GATES IN KIND.
- 25 PROTECT EXISTING FENCING IN PLACE.
- 26 PROTECT EXISTING LIGHT/POWER POLE IN PLACE.
- 27 PROTECT EXISTING TREE AND/OR PALM IN PLACE.
- 28 PROTECT EXISTING SIGN IN PLACE.
- 29 CONSTRUCT NEW STORM DRAIN INLET PER STD. DWG. 412.



BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
ELEV - 753.831

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PAVEMENT REPLACEMENT SECTION DETAIL 'E' SEWER MAIN 'B'
(STATION 24+90± TO 27+75±)
(SEWER MAINS "B-1, B-2 AND B-3")
NO SCALE

PAVEMENT REPLACEMENT SECTION DETAIL 'F' SEWER MAIN 'B'
(STATION 33+59± TO 56+00±)
(SEWER MAINS "B-4 THRU B-7")
NO SCALE

PAVEMENT REPLACEMENT SECTION DETAIL 'G' SEWER MAIN 'B'
(STATION 57+80± TO 59+07±)
(SEWER MAINS "B-8 THRU B-10")
NO SCALE

Be BIRGE ENGINEERING, INC.
600 N. MOUNTAIN AVENUE, SUITE B204
UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 12/4/2009

PROFESSIONAL ENGINEER
STEVEN B. FRIESON
No. C42110
EXP. 03/31/10
CIVIL
STATE OF CALIFORNIA

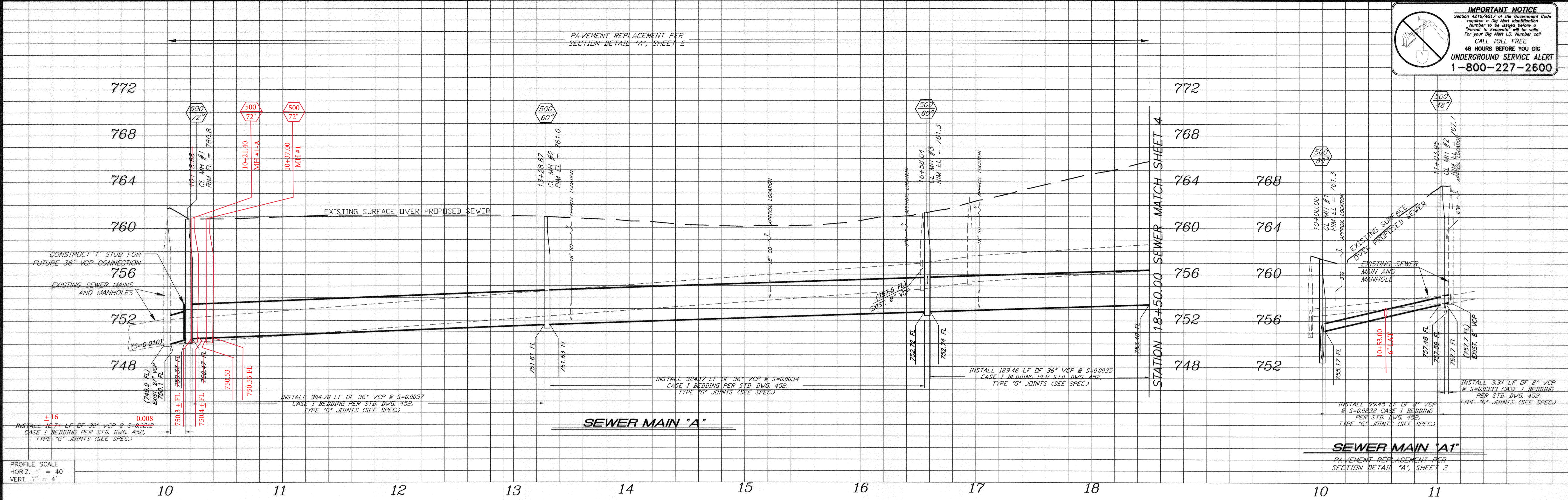
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature]
DATE: 12/10/09

TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
CONSTRUCTION PLAN
SHEET INDEX MAP
SCALE: AS SHOWN

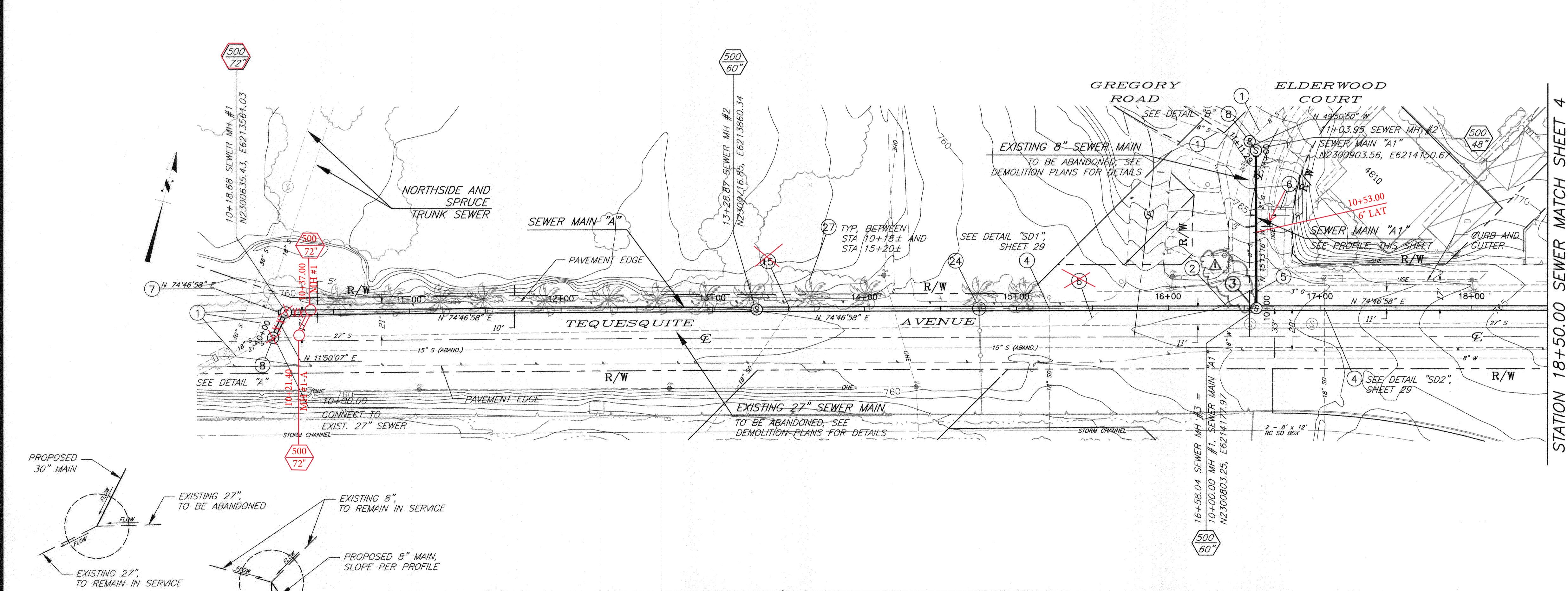
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W.D. _____
S-2074
SHEET 2 OF 29

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1-800-227-2600



BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
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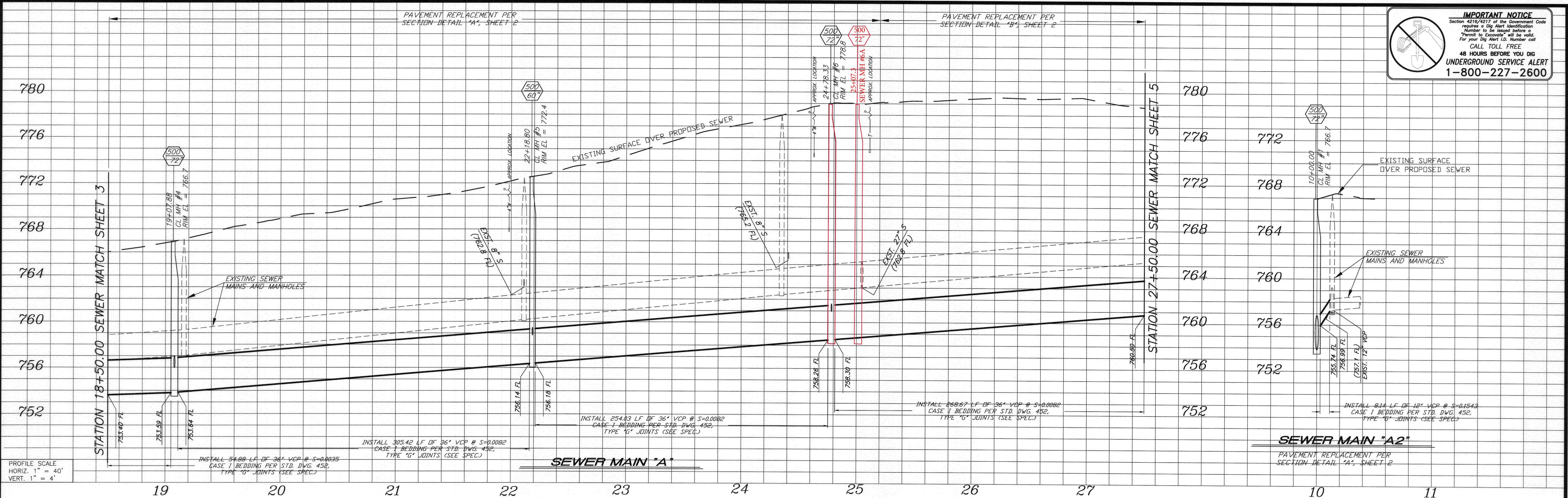


- SPECIFIC CONSTRUCTION NOTES**
- EXISTING SEWER MAIN TO REMAIN IN SERVICE.
 - PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO VERIFY LOCATION. PROTECT WATER UTILITY IN PLACE. IF RELOCATION IS REQUIRED CONTRACTOR IS TO NOTIFY THE WATER UTILITY ENGINEER. THE WATER UTILITY SHALL HAVE 30 BUSINESS DAYS TO RELOCATE THE INTERFERING FACILITIES.
 - RE-CONSTRUCT EXISTING STORM DRAIN LATERAL PER INDICATED DETAIL.
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 - STORM DRAIN LATERAL LOCATED PER AS-BUILT, NOT FIELD VERIFIED.
 - REPLACE REMOVED OR DAMAGED FENCING OR GATES IN KIND.
 - PROTECT EXISTING TREE AND/OR PALM IN PLACE.
 - PROTECT AND MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION**

BIRGE ENGINEERING, INC. 600 N. MOUNTAIN AVENUE, SUITE B204 UPLAND, CA 91786 TEL: (909) 579-0842 FAX: (909) 579-0804	ENGINEER IN RESPONSIBLE CHARGE STEVEN B. FRIESON R.C.E. No. C42110 expires 03/31/10 DATE 12/14/2009		CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS TEQUESQUITE AVENUE FROM STATION 10+00.00 TO STATION 18+50.00	ACC. No. _____ W.O. _____ S-2074 SHEET 3 OF 29
			APPROVED BY: _____ INSPECTOR: _____ SURVEYOR: _____ ENGINEERING MANAGER: _____	DATE: 2/20/09		

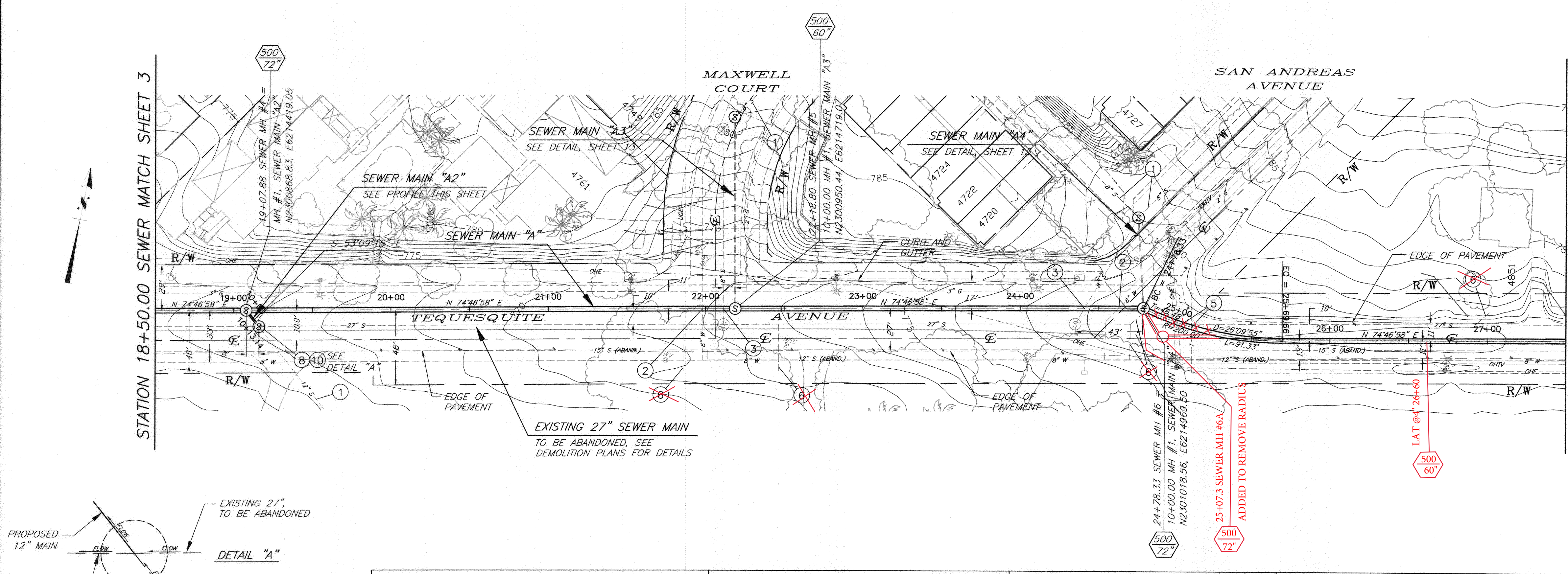
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IMPORTANT NOTICE
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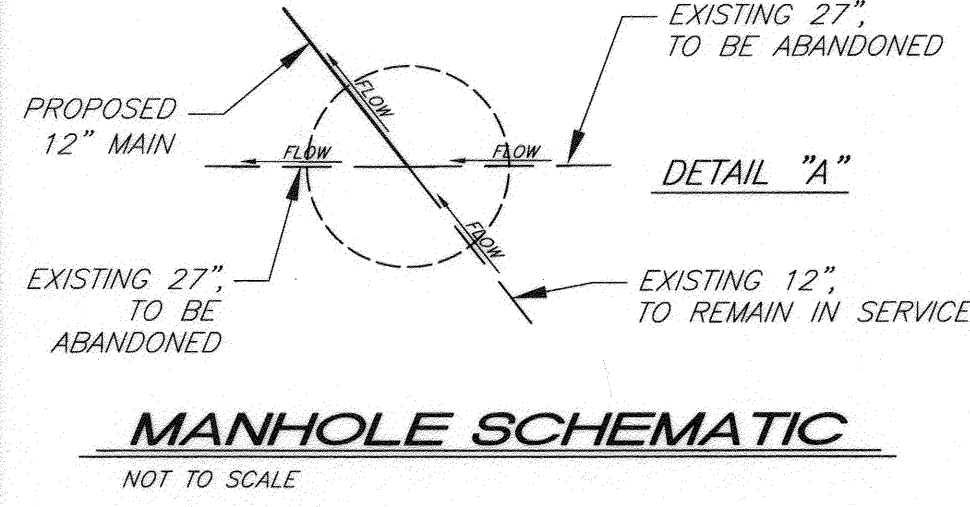


PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831



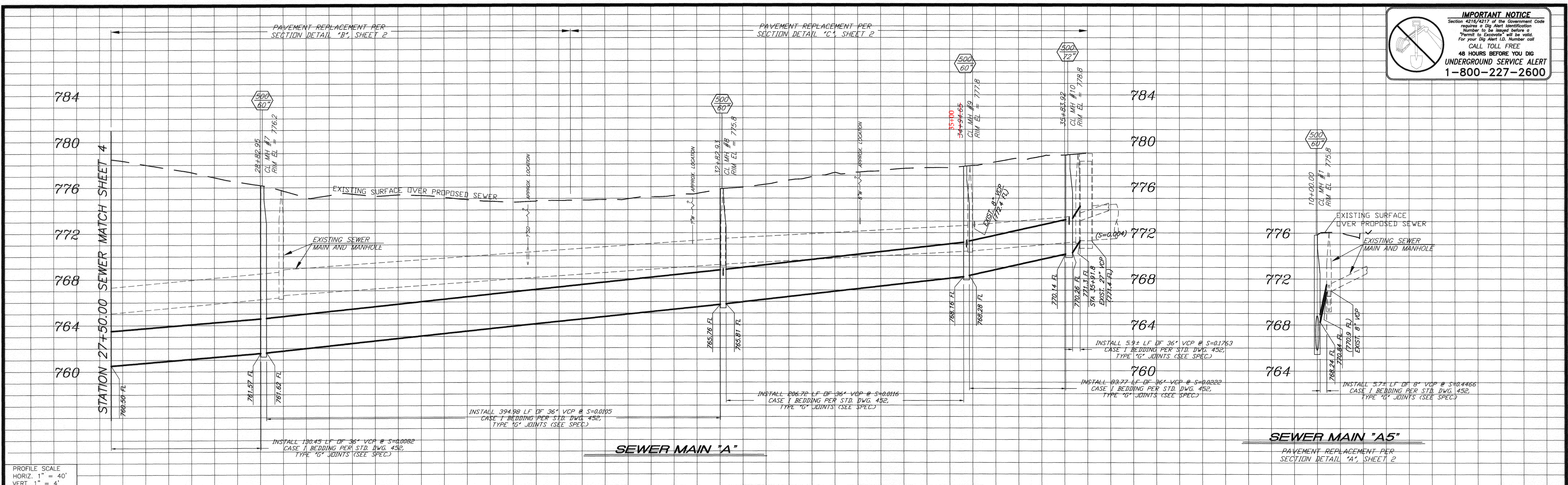
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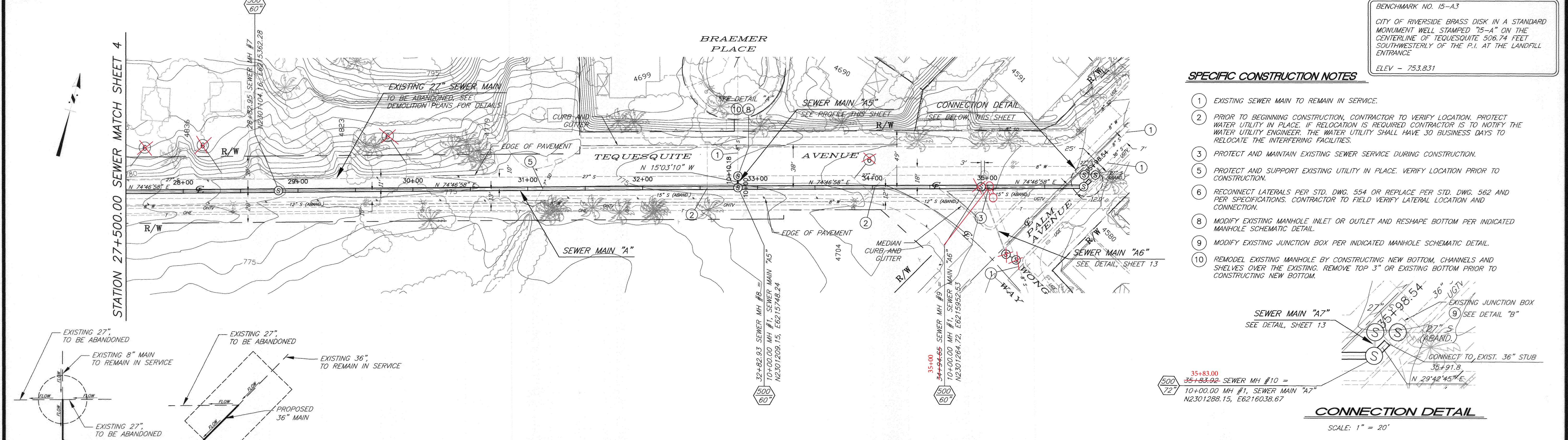
<p>BIRGE ENGINEERING, INC. 600 N. MOUNTAIN AVENUE, SUITE B204 UPLAND, CA 91786 TEL: (909) 579-0842 FAX: (909) 579-0804</p>	<p>ENGINEER IN RESPONSIBLE CHARGE</p> STEVEN B. FRIESON R.C.E. No. C42110 expires 03/31/10 DATE 12/14/2009		<p>CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT</p>		<p>TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS TEQUESQUITE AVENUE FROM STATION 18+50.00 TO STATION 27+50.00</p>	<p>ACC. No. _____ W.O. _____ S-2074</p>
			<p>APPROVED BY: [Signature] DATE: 12/14/09 PRINCIPAL ENGINEER</p> <p>INSPECTOR: [Signature] DATE: 12/14/09 SURVEYOR</p> <p>ENGINEERING MANAGER: [Signature] DATE: 12/14/09</p>	<p>APPROVED BY: [Signature] DATE: 12/14/09 CITY ENGINEER</p>		

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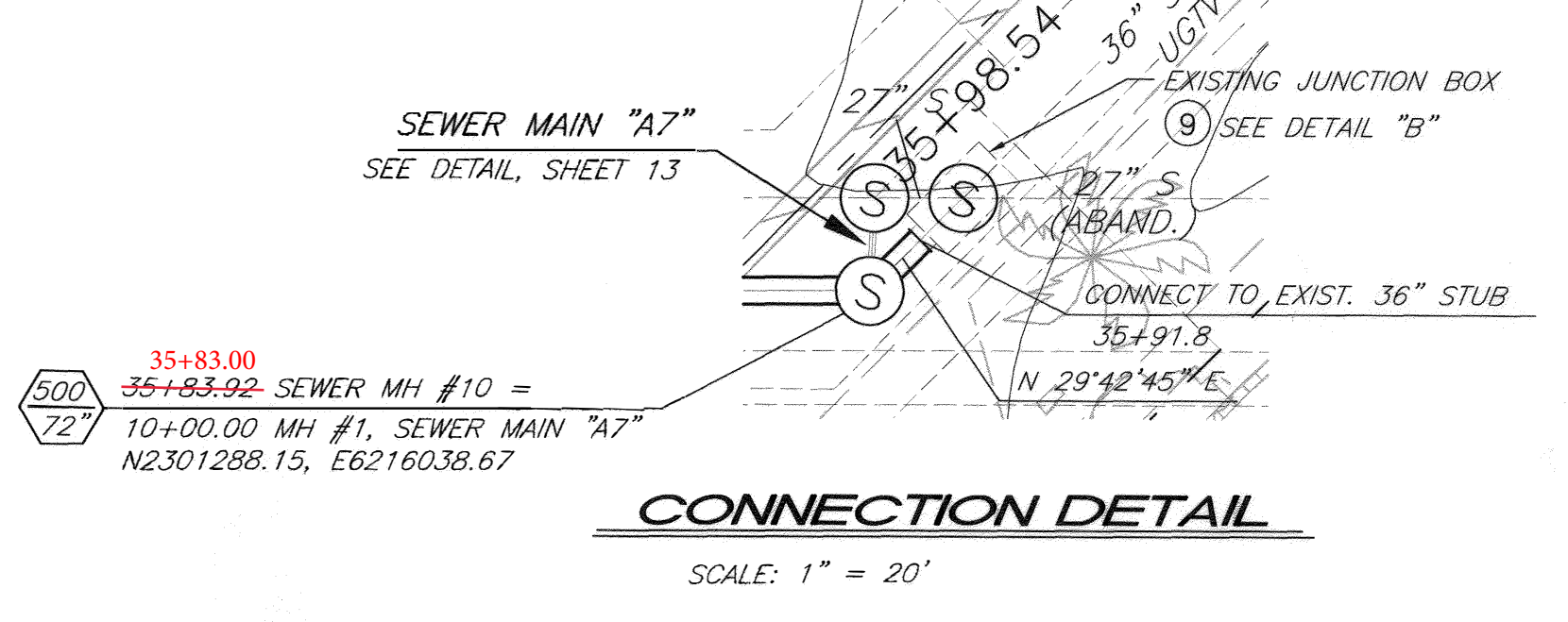
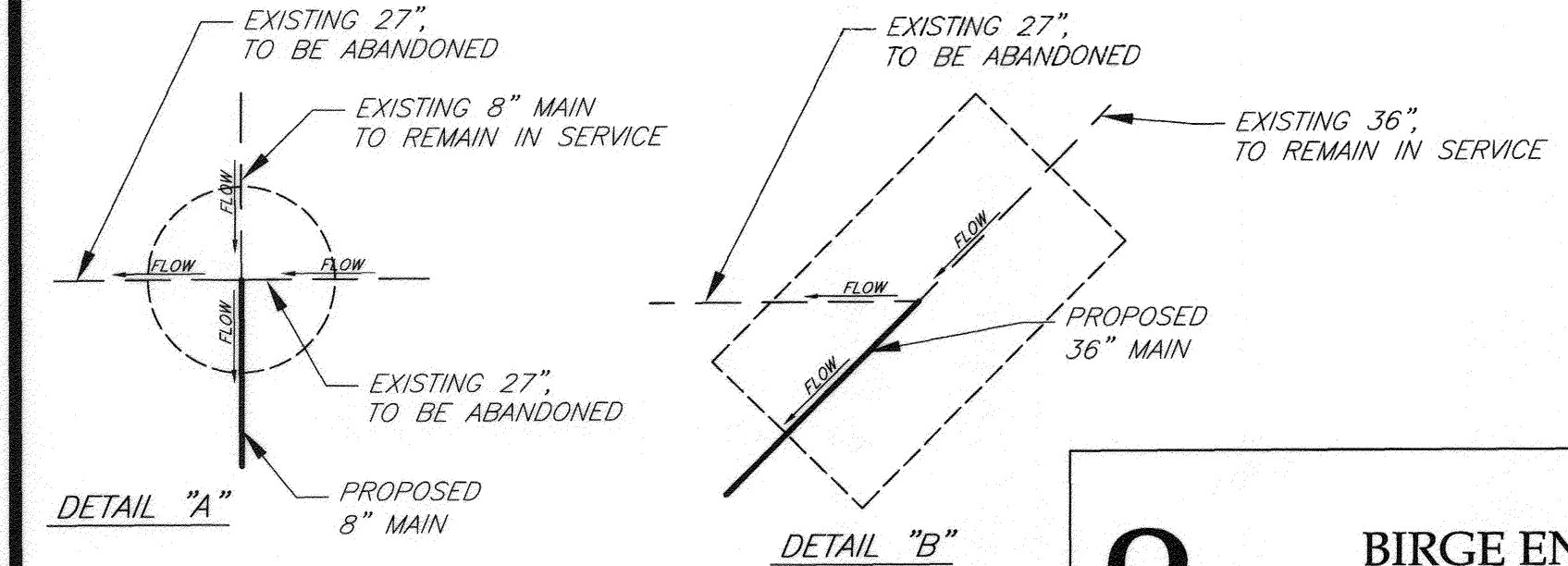
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BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED '75-A' ON THE CENTERLINE OF TEQUESQUITE 308.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831

SPECIFIC CONSTRUCTION NOTES

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- RECONNECT LATERALS PER STD. DWG. 554 OR REPLACE PER STD. DWG. 562 AND PER SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY LATERAL LOCATION AND CONNECTION.
- MODIFY EXISTING MANHOLE INLET OR OUTLET AND RESHAPE BOTTOM PER INDICATED MANHOLE SCHEMATIC DETAIL.
- MODIFY EXISTING JUNCTION BOX PER INDICATED MANHOLE SCHEMATIC DETAIL.
- REMODEL EXISTING MANHOLE BY CONSTRUCTING NEW BOTTOM, CHANNELS AND SHELVES OVER THE EXISTING. REMOVE TOP 3" OR EXISTING BOTTOM PRIOR TO CONSTRUCTING NEW BOTTOM.

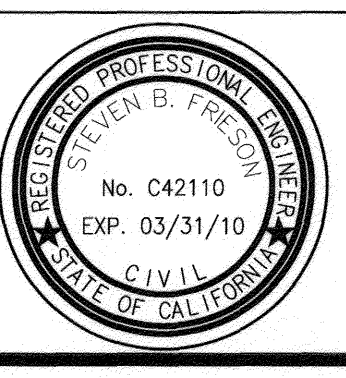


V:\Projects\08801001_Tequessquite(CAD)\CD0051 West-req-Sheets.DWG 12/10/09 17:17

MANHOLE SCHEMATIC
 NOT TO SCALE

Be
BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

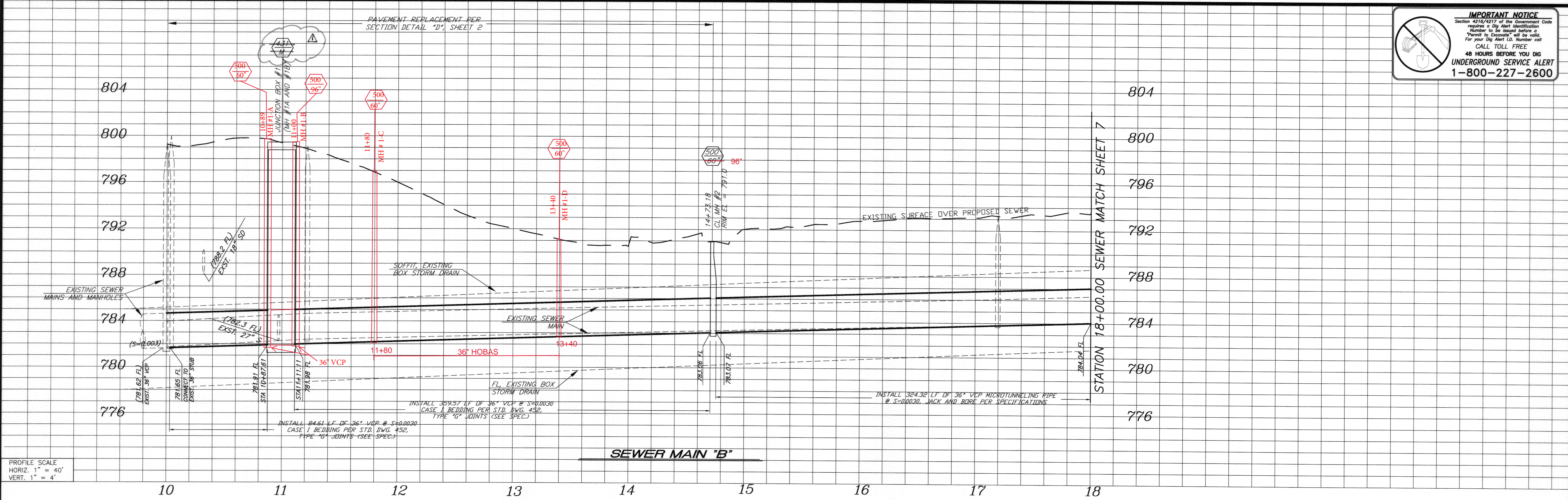
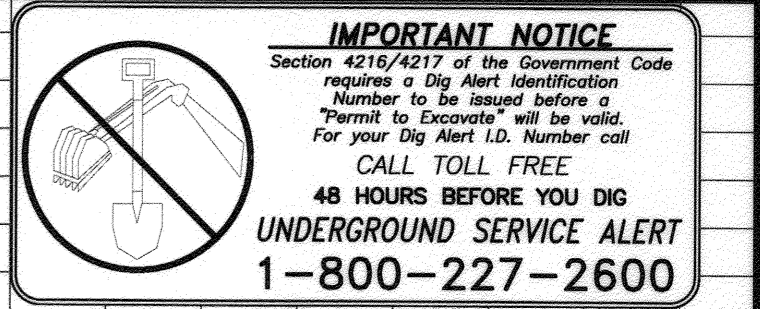
ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/11/2009



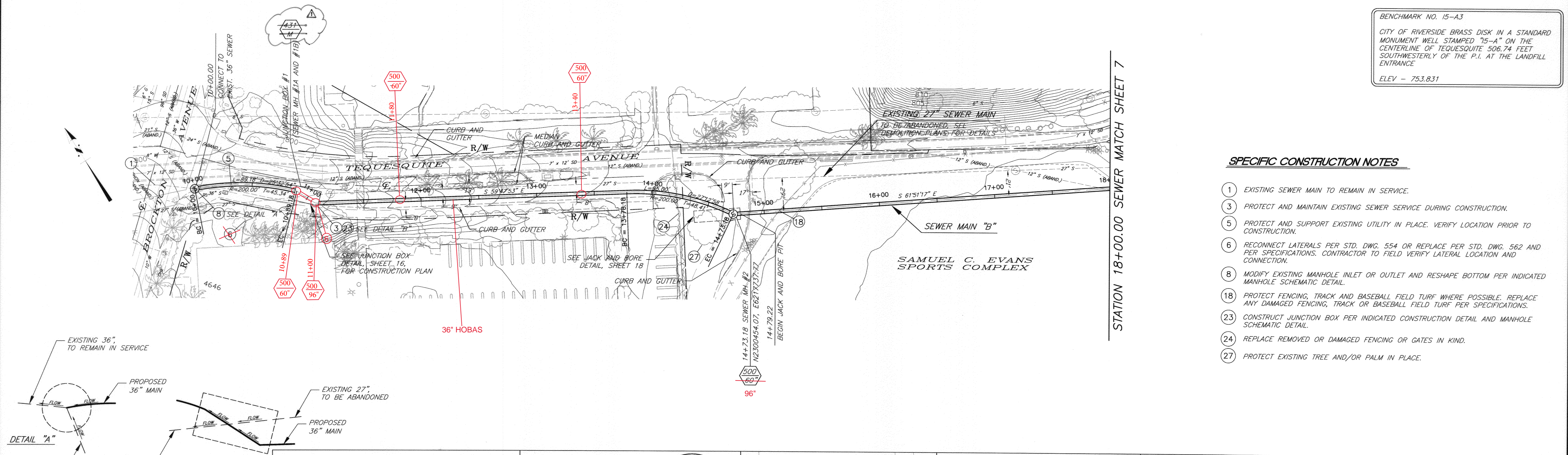
CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT	
APPROVED BY: <i>[Signature]</i>	DATE: 12/11/09
INSPECTOR: <i>[Signature]</i>	DATE: 12/11/09
SUPERVISOR: <i>[Signature]</i>	DATE: 12/11/09
ENGINEERING MANAGER: <i>[Signature]</i>	DATE: 12/11/09
DESIGNED BY: <i>[Signature]</i>	DATE: 12/11/09
DRAWN BY: CDRAKE	CHECKED BY: <i>[Signature]</i>

TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 TEQUESQUITE AVENUE
 FROM STATION 27+50.00 TO STATION 35+98.54

ACC. No. _____
 W.O. _____
S-2074
 SHEET 5 OF 29

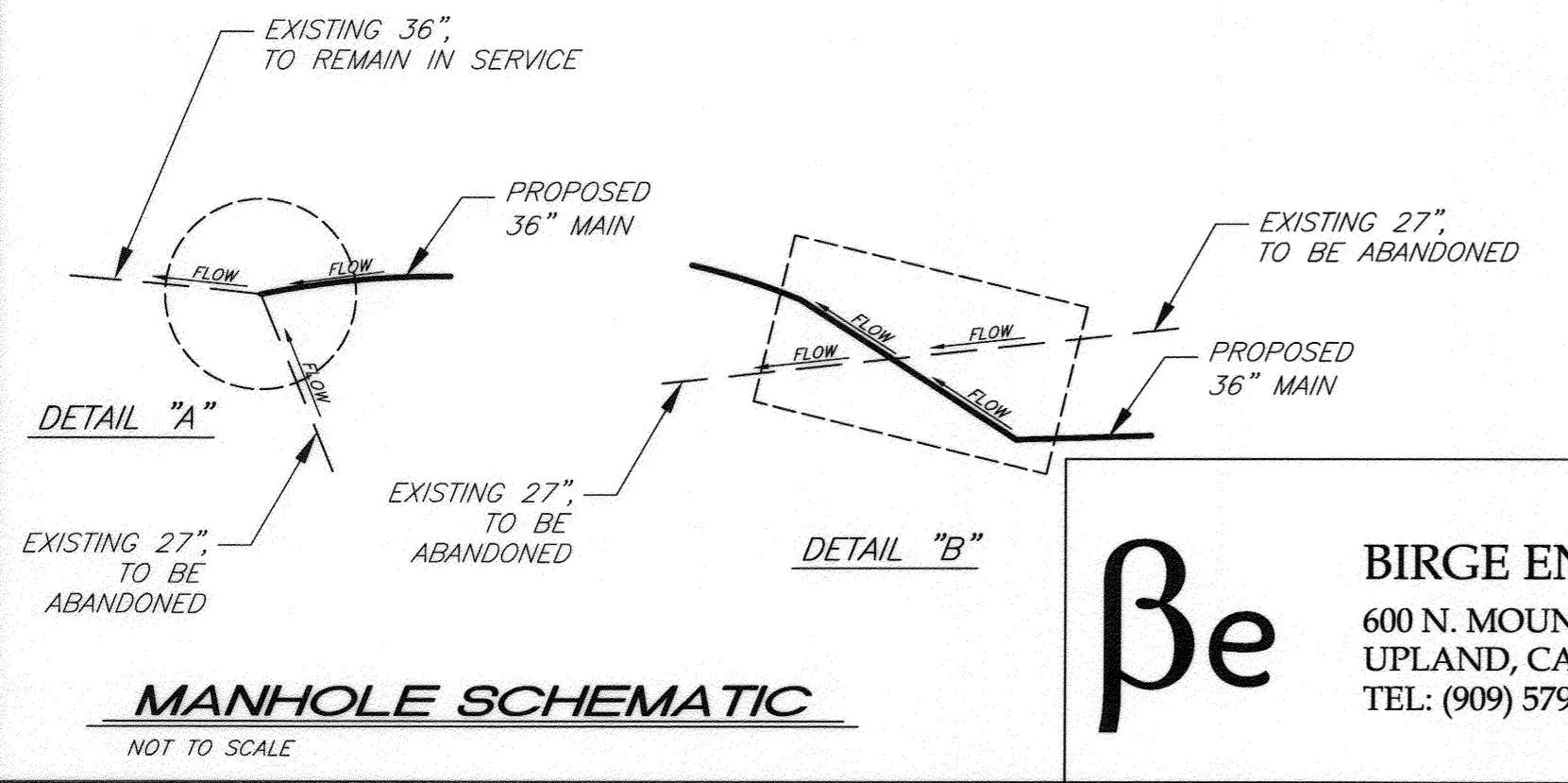


PROFILE SCALE
HORIZ. 1" = 40'
VERT. 1" = 4'



BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
ELEV - 753.831

- SPECIFIC CONSTRUCTION NOTES**
- EXISTING SEWER MAIN TO REMAIN IN SERVICE.
 - PROTECT AND MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION.
 - PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
 - RECONNECT LATERALS PER STD. DWG. 554 OR REPLACE PER STD. DWG. 562 AND PER SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY LATERAL LOCATION AND CONNECTION.
 - MODIFY EXISTING MANHOLE INLET OR OUTLET AND RESHAPE BOTTOM PER INDICATED MANHOLE SCHEMATIC DETAIL.
 - PROTECT FENCING, TRACK AND BASEBALL FIELD TURF WHERE POSSIBLE. REPLACE ANY DAMAGED FENCING, TRACK OR BASEBALL FIELD TURF PER SPECIFICATIONS.
 - CONSTRUCT JUNCTION BOX PER INDICATED CONSTRUCTION DETAIL AND MANHOLE SCHEMATIC DETAIL.
 - REPLACE REMOVED OR DAMAGED FENCING OR GATES IN KIND.
 - PROTECT EXISTING TREE AND/OR PALM IN PLACE.



Be
BIRGE ENGINEERING, INC.
600 N. MOUNTAIN AVENUE, SUITE B204
UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 12/11/2009



CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]
PRINCIPAL ENGINEER
INSPECTOR: [Signature]
SURVEYOR: [Signature]
ENGINEERING MANAGER: [Signature]

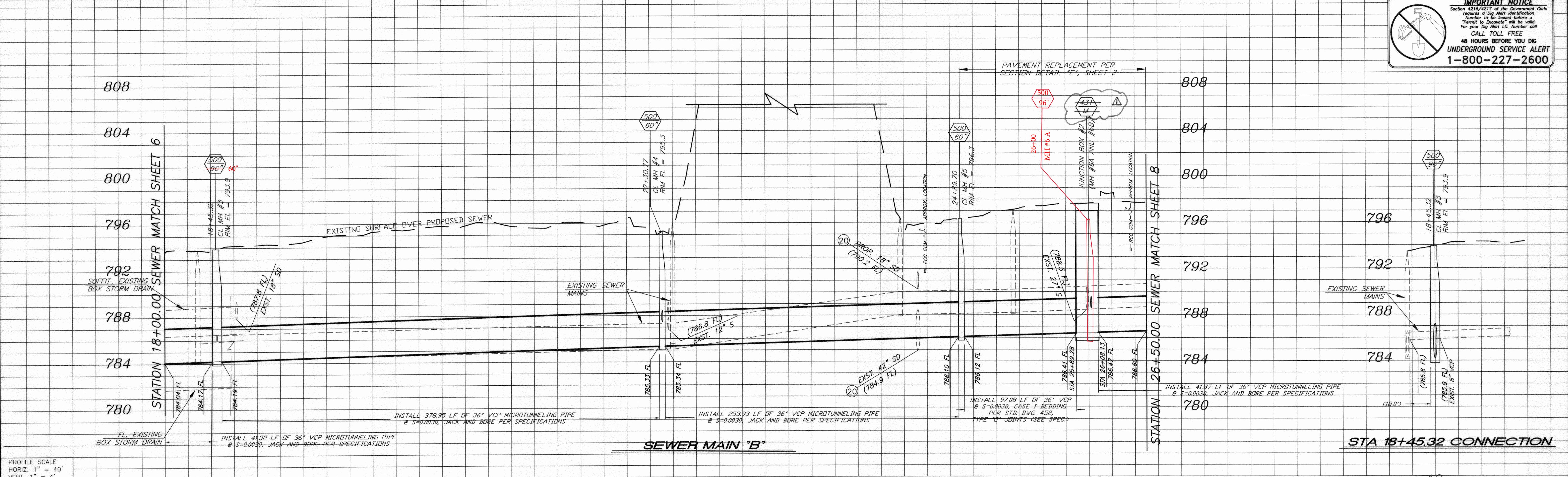
DATE: 12/11/09

TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
TEQUESQUITE AVENUE
FROM STATION 10+00.00 TO STATION 18+00.00

ACC. No. _____ W.O. _____
S-2074
SHEET 6 OF 29

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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 I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600



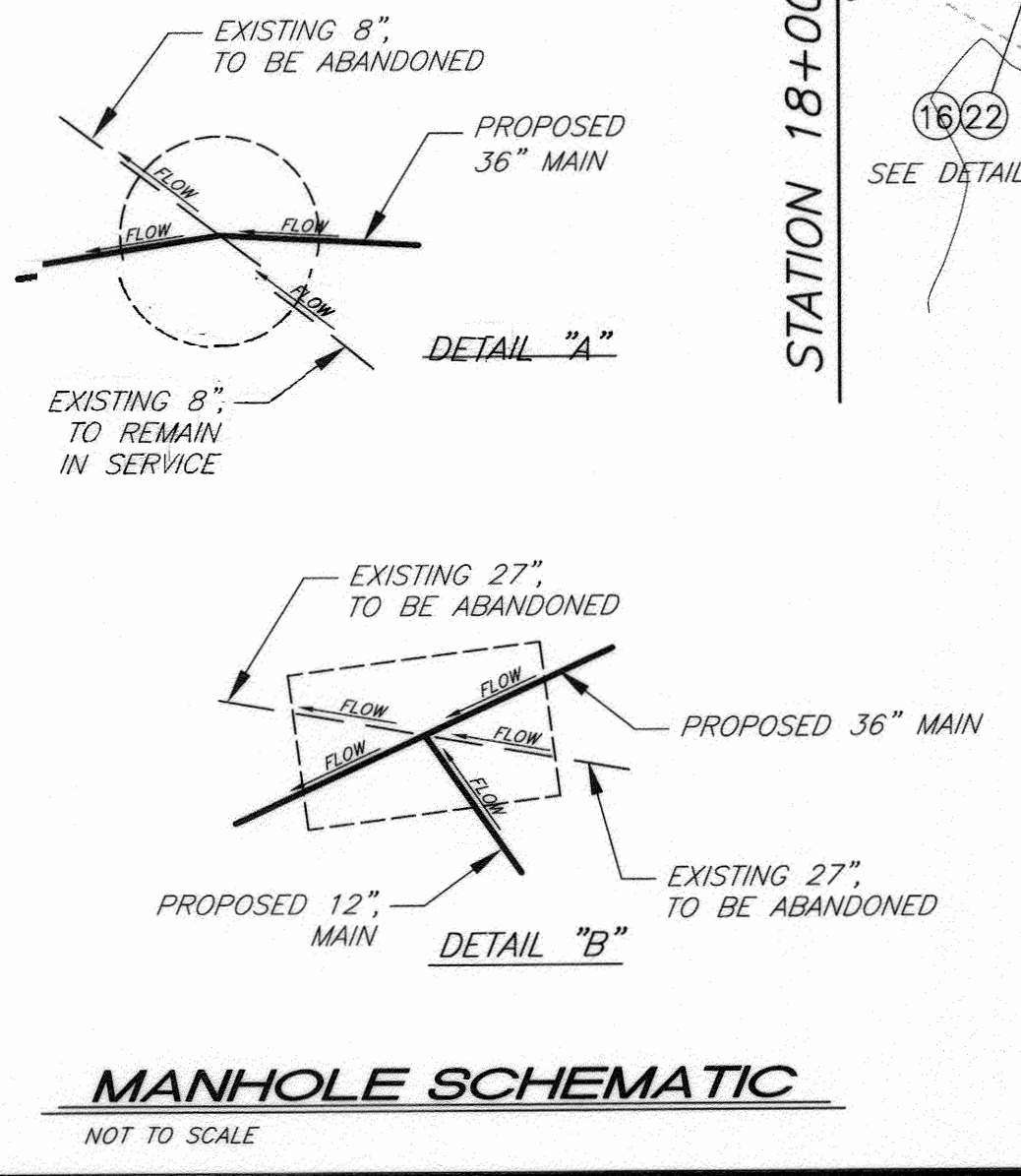
PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'



BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV. = 753.931

SPECIFIC CONSTRUCTION NOTES

- 1 EXISTING SEWER MAIN TO REMAIN IN SERVICE.
- 3 PROTECT AND MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION.
- 5 PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
- 6 RECONNECT LATERALS PER STD. DWG. 554 OR REPLACE PER STD. DWG. 562 AND PER SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY LATERAL LOCATION AND CONNECTION.
- 16 ACTIVATE 36" SEWER MAIN "B" BETWEEN MH#4 AND DOWNSTREAM CONNECTION IN TEQUESQUITE AND BROCKTON BEFORE FINAL CONSTRUCTION OF THE CONNECTION AT MH#3 AND SEWER MAIN "B1". DEMOLISH AFFECTED EXISTING SEWER MAINS PER DEMOLITION PLANS AND SPECIFICATIONS.
- 18 PROTECT FENCING, TRACK AND BASEBALL FIELD TURF WHERE POSSIBLE. REPLACE ANY DAMAGED FENCING, TRACK OR BASEBALL FIELD TURF PER SPECIFICATIONS.
- 20 EXISTING 42" STORM DRAIN TO BE DEMOLISHED AND REPLACED BY OTHERS PER CITY OF RIVERSIDE STORM DRAIN DRAWING D-B38.
- 22 CONSTRUCT NEW MANHOLE PER INDICATED MANHOLE SCHEMATIC DETAIL.
- 23 CONSTRUCT JUNCTION BOX PER INDICATED CONSTRUCTION DETAIL AND MANHOLE SCHEMATIC DETAIL.
- 25 PROTECT EXISTING FENCING IN PLACE.
- 26 PROTECT EXISTING LIGHT/POWER POLE IN PLACE.
- 27 PROTECT EXISTING TREE AND/OR PALM IN PLACE.



βe
BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/11/2009

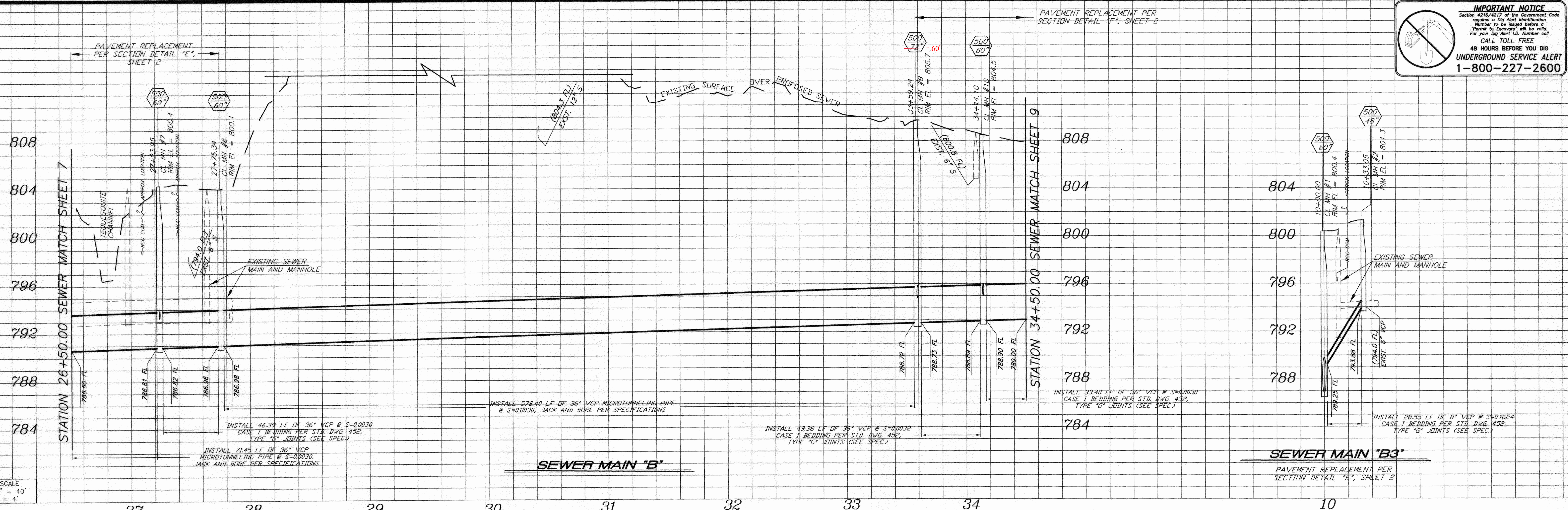
DELETED STD. DWG. REFERENCE
 DESIGNED BY SBF DRAWN BY CDRAKE CHECKED BY SBF

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 INSPECTOR: [Signature]
 SURVEYOR: [Signature]
 ENGINEERING MANAGER: [Signature]
 DATE: [Signature]

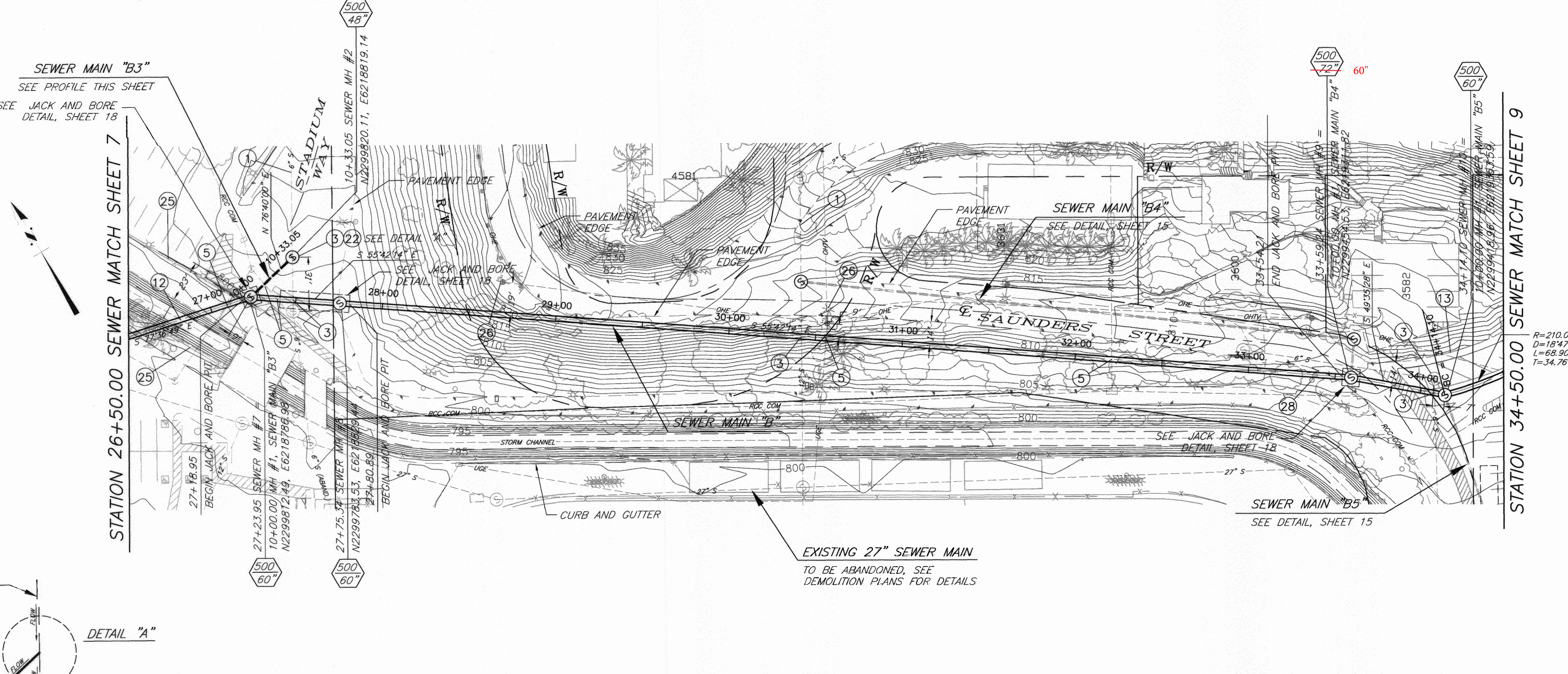
TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 RIVERSIDE COMMUNITY COLLEGE
 FROM STATION 18+00.00 TO STATION 26+50.00
 ACC. No. _____
 S-2074
 SHEET 7 OF 29

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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 void. For your Dig Alert ID Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600



BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV. = 753.831

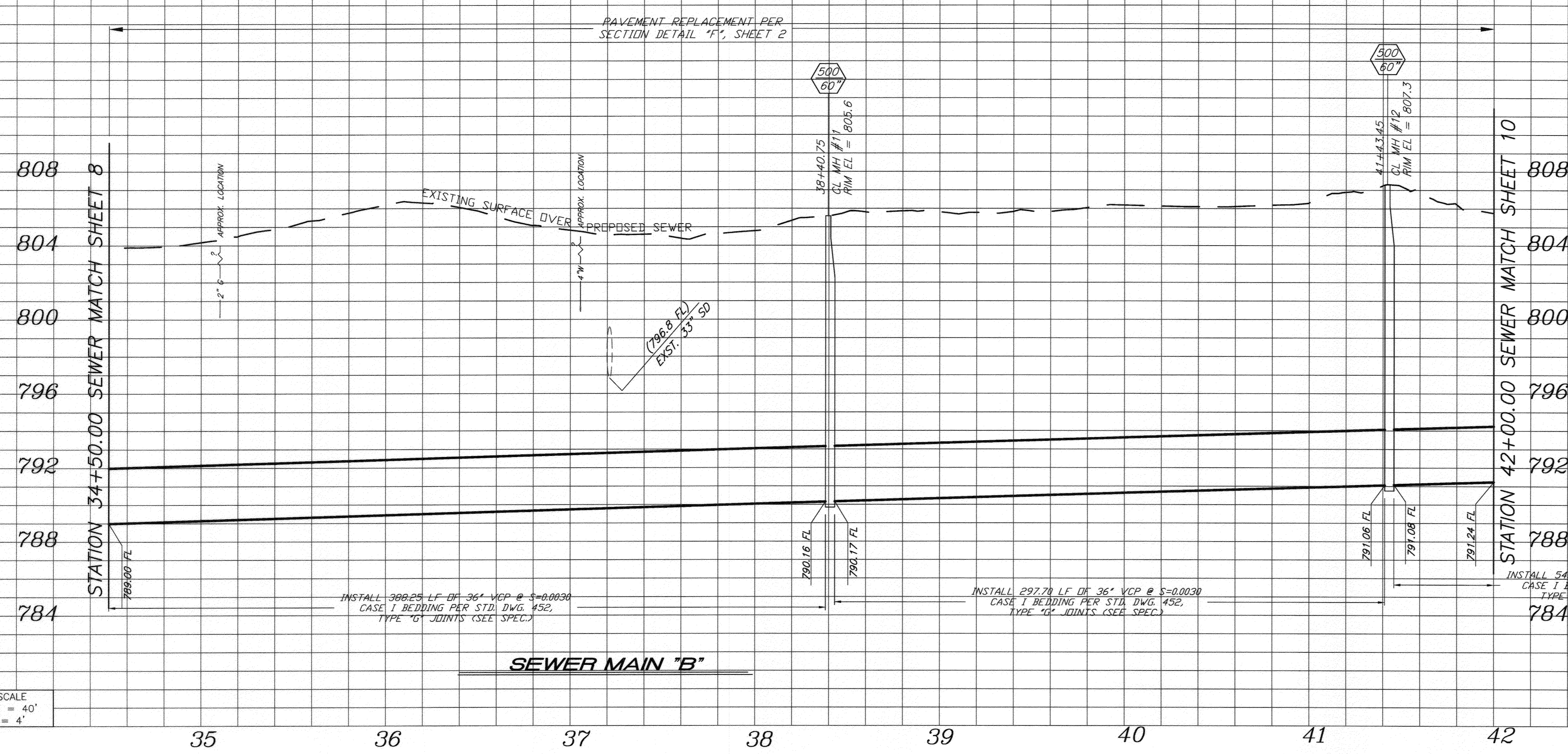


- SPECIFIC CONSTRUCTION NOTES**
- EXISTING SEWER MAIN TO REMAIN IN SERVICE.
 - PROTECT AND MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION.
 - PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
 - PROTECT AND SUPPORT EXISTING STORM CHANNEL IN PLACE.
 - PROTECT EXISTING RETAINING WALL IN PLACE.
 - CONSTRUCT NEW MANHOLE PER INDICATED MANHOLE SCHEMATIC DETAIL.
 - PROTECT EXISTING FENCING IN PLACE.
 - PROTECT EXISTING LIGHT/POWER POLE IN PLACE.
 - PROTECT EXISTING SIGN IN PLACE.

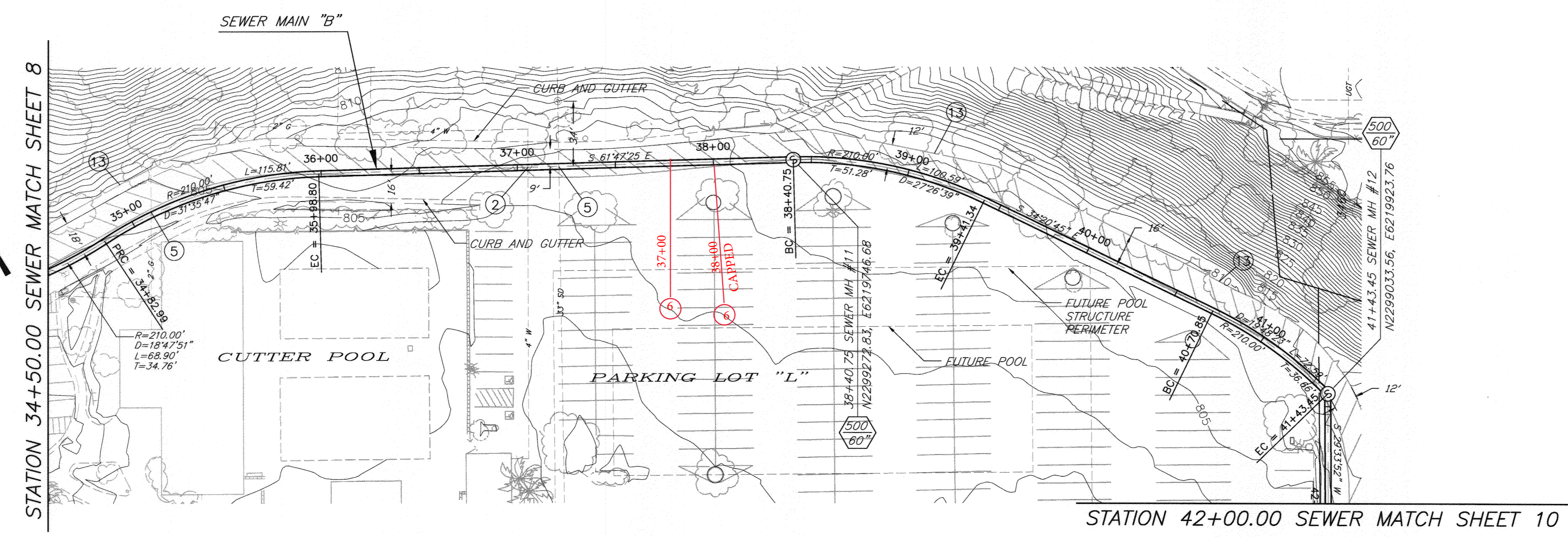
V:\Projects\08001001_Tequesquite\CADD\CDCS\WestTrey-Sheet8.DWG 12/10/09_17:22

<p>BIRGE ENGINEERING, INC. 600 N. MOUNTAIN AVENUE, SUITE B204 UPLAND, CA 91786 TEL: (909) 579-0842 FAX: (909) 579-0804</p>	<p>ENGINEER IN RESPONSIBLE CHARGE</p> <p>STEVEN B. FRIESON R.C.E. No. C42110 expires 03/31/10 DATE 12/11/2009</p>		<p>CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT</p>		<p>TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS RIVERSIDE COMMUNITY COLLEGE FROM STATION 26+50.00 TO STATION 34+50.00</p>	<p>ACC. No. _____ W.D. _____ S-2074</p>
			<p>APPROVED BY _____ DATE _____</p> <p>PRINCIPAL ENGINEER _____ INSPECTOR _____ SUPERVISOR _____ ENGINEERING MANAGER _____</p>	<p>DESIGNED BY <i>SBC</i> DRAWN BY _____ CHECKED BY <i>SE</i></p>		

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 I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600



BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831

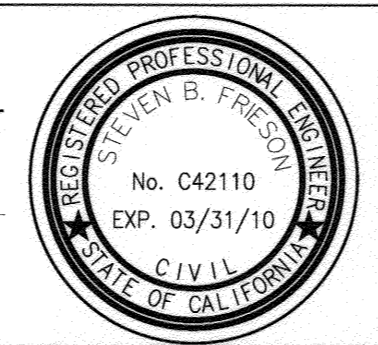


SPECIFIC CONSTRUCTION NOTES

- 2) PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO VERIFY LOCATION. PROTECT WATER UTILITY IN PLACE. IF RELOCATION IS REQUIRED CONTRACTOR IS TO NOTIFY THE WATER UTILITY ENGINEER. THE WATER UTILITY SHALL HAVE 30 BUSINESS DAYS TO RELOCATE THE INTERFERING FACILITIES.
- 5) PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
- 13) PROTECT EXISTING RETAINING WALL IN PLACE.

Be
 BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/11/2009



CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]
 PRINCIPAL ENGINEER
 INSPECTOR: [Signature]
 SURVEYOR: [Signature]
 ENGINEERING MANAGER: [Signature]

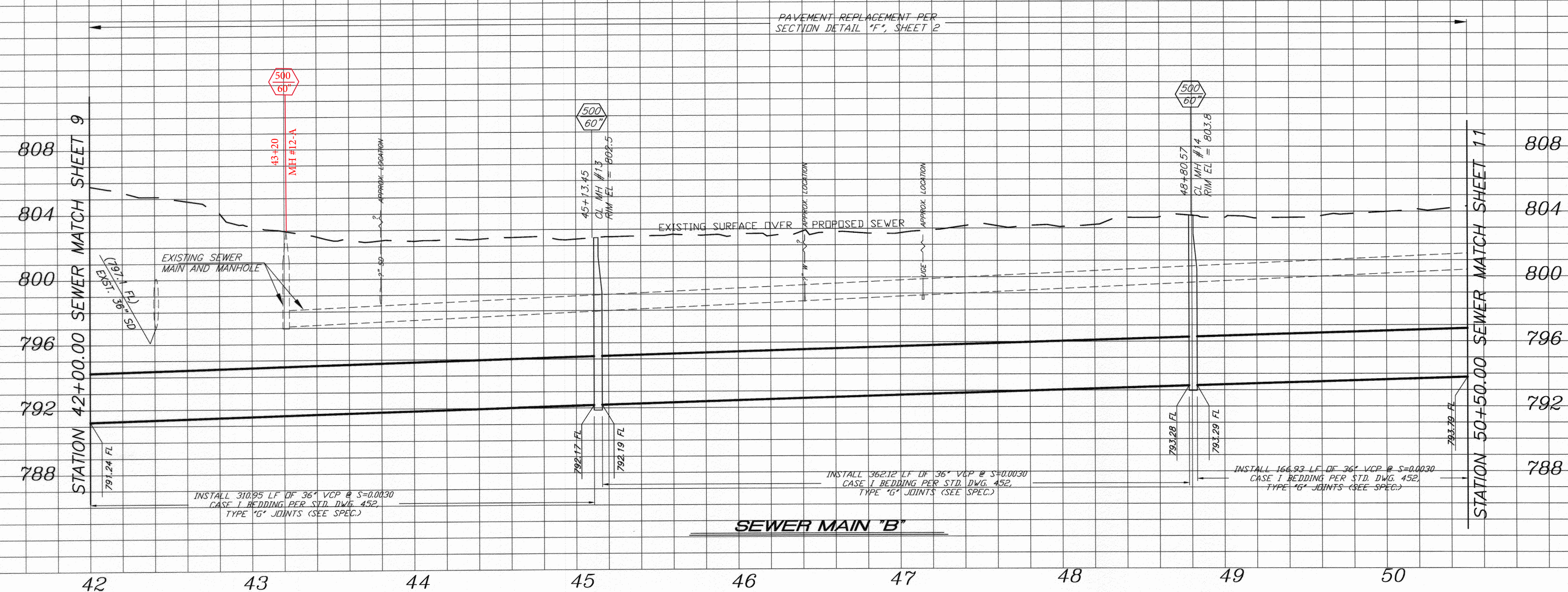
DATE: 12/11/2009

TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 RIVERSIDE COMMUNITY COLLEGE
 FROM STATION 34+50.00 TO STATION 42+00.00

ACC. No. _____
 W.O. _____
 S-2074
 SHEET 9 OF 29

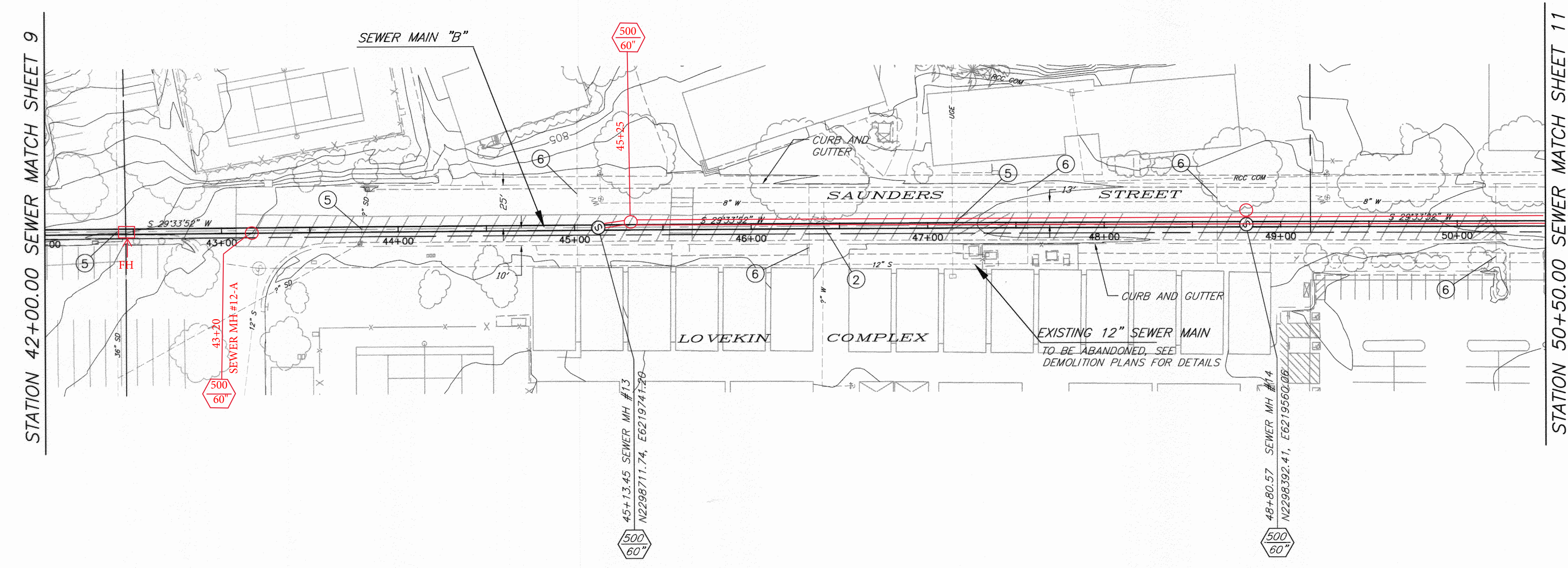
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IMPORTANT NOTICE
 Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID, Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE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



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

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831



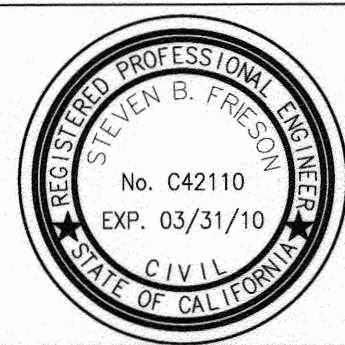
SPECIFIC CONSTRUCTION NOTES

- ② PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO VERIFY LOCATION, PROTECT WATER UTILITY IN PLACE. IF RELOCATION IS REQUIRED CONTRACTOR IS TO NOTIFY THE WATER UTILITY ENGINEER. THE WATER UTILITY SHALL HAVE 30 BUSINESS DAYS TO RELOCATE THE INTERFERING FACILITIES.
- ⑤ PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
- ⑥ RECONNECT LATERALS PER STD. DWG. 554 OR REPLACE PER STD. DWG. 562 AND PER SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY LATERAL LOCATION AND CONNECTION.

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Be
 BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/11/09



MARK	REVISIONS	APPR.	DATE

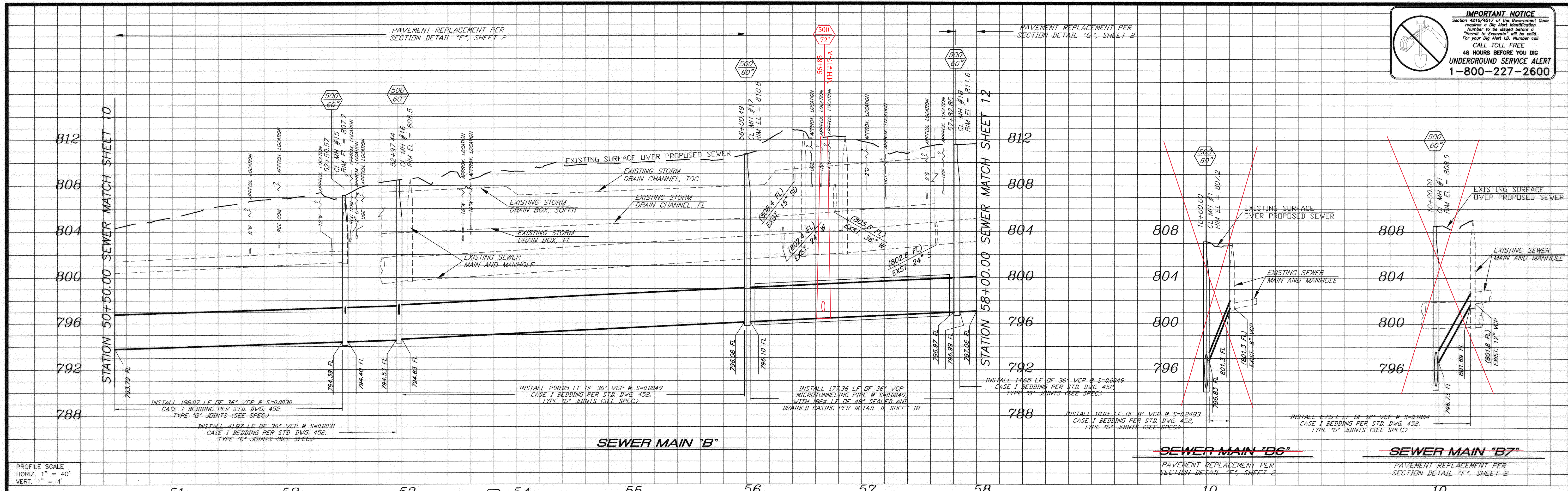
CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY	BY	DATE
PRINCIPAL ENGINEER					
INSPECTOR					
SURVEYOR					
ENGINEERING MANAGER					

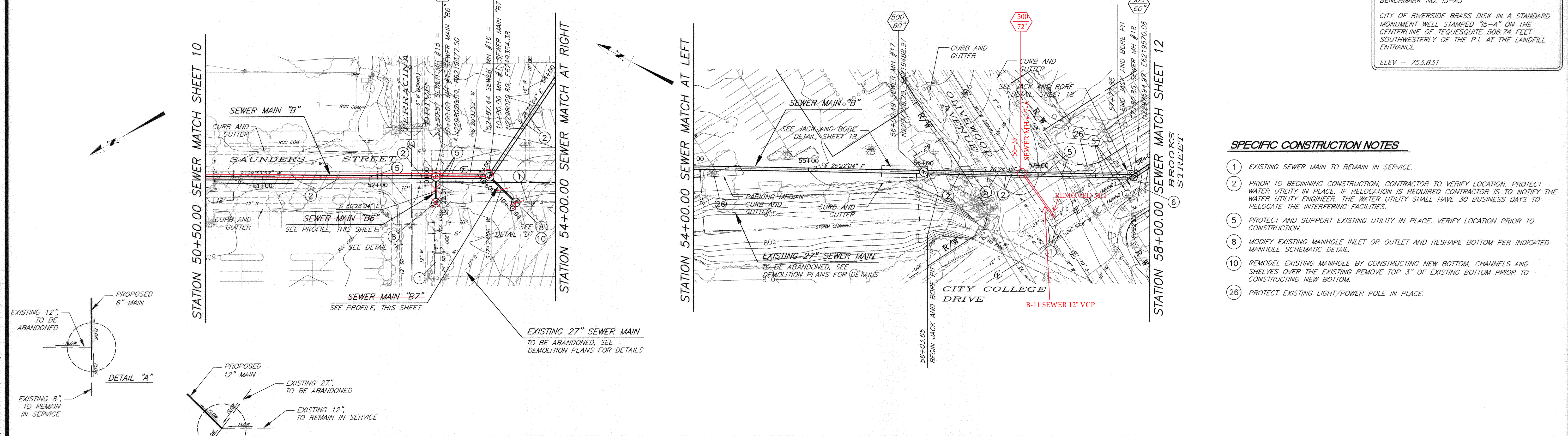
TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 RIVERSIDE COMMUNITY COLLEGE
 FROM STATION 42+00.00 TO STATION 50+50.00

ACC. No. _____ W.O. _____
 S-2074
 SHEET 10 OF 29

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

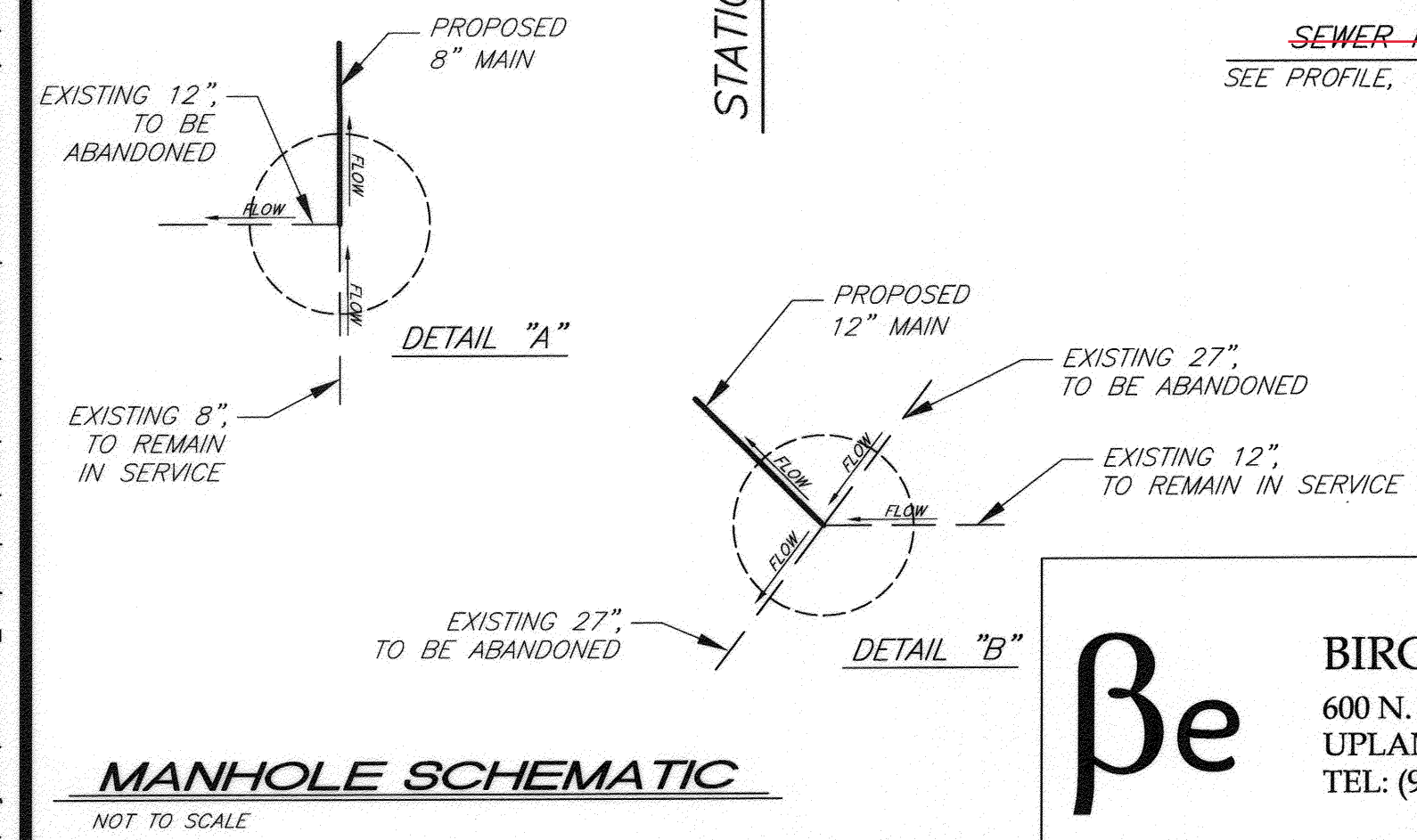


PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'



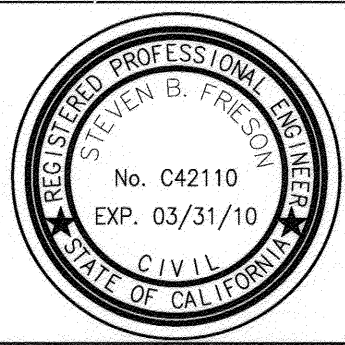
BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV. = 753.831

- SPECIFIC CONSTRUCTION NOTES**
- EXISTING SEWER MAIN TO REMAIN IN SERVICE.
 - PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO VERIFY LOCATION. PROTECT WATER UTILITY IN PLACE. IF RELOCATION IS REQUIRED CONTRACTOR IS TO NOTIFY THE WATER UTILITY ENGINEER. THE WATER UTILITY SHALL HAVE 30 BUSINESS DAYS TO RELOCATE THE INTERFERING FACILITIES.
 - PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
 - MODIFY EXISTING MANHOLE INLET OR OUTLET AND RESHAPE BOTTOM PER INDICATED MANHOLE SCHEMATIC DETAIL.
 - REMODEL EXISTING MANHOLE BY CONSTRUCTING NEW BOTTOM, CHANNELS AND SHELVES OVER THE EXISTING REMOVE TOP 3" OF EXISTING BOTTOM PRIOR TO CONSTRUCTING NEW BOTTOM.
 - PROTECT EXISTING LIGHT/POWER POLE IN PLACE.



Be
BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/11/2009



CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT	
APPROVED BY	DATE
PRINCIPAL ENGINEER	11/11/09
INSPECTOR	03/31/10
SURVEYOR	05/11/09
ENGINEERING MANAGER	04/11/09
DESIGNED BY	CDRAKE
DRAWN BY	CDRAKE
CHECKED BY	CDRAKE

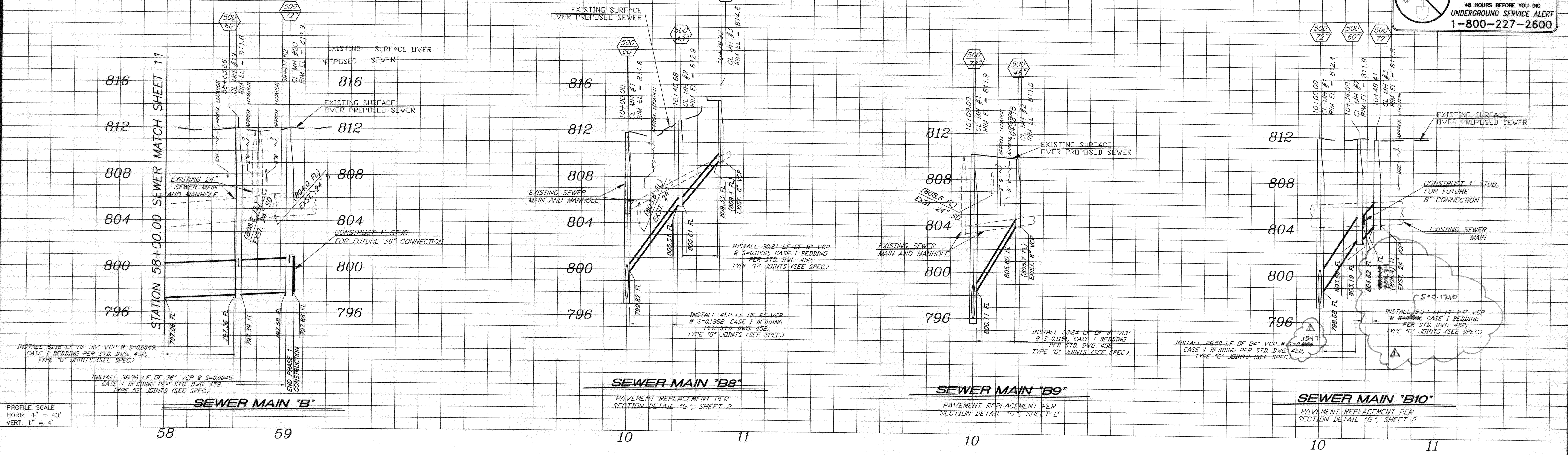
CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS
 RIVERSIDE COMMUNITY COLLEGE
 FROM STATION 50+50.00 TO STATION 58+00.00

ACC. No. _____ W.O. _____
S-2074
 SHEET 11 OF 29

V:\Projects\0880\001_Tequesquite\CAD\CDCS3 West\res-Sheet11.DWG 12/10/09 17:27

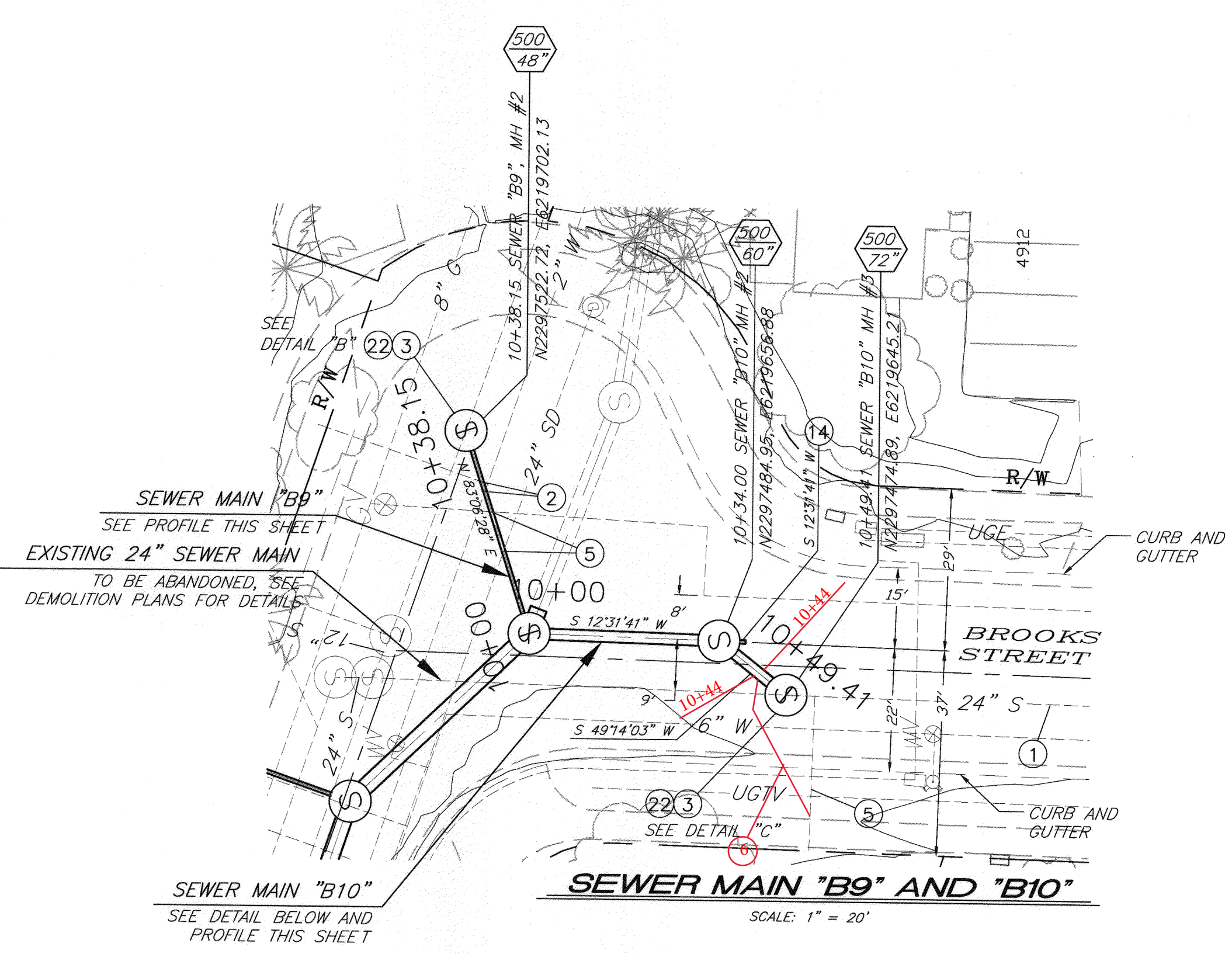
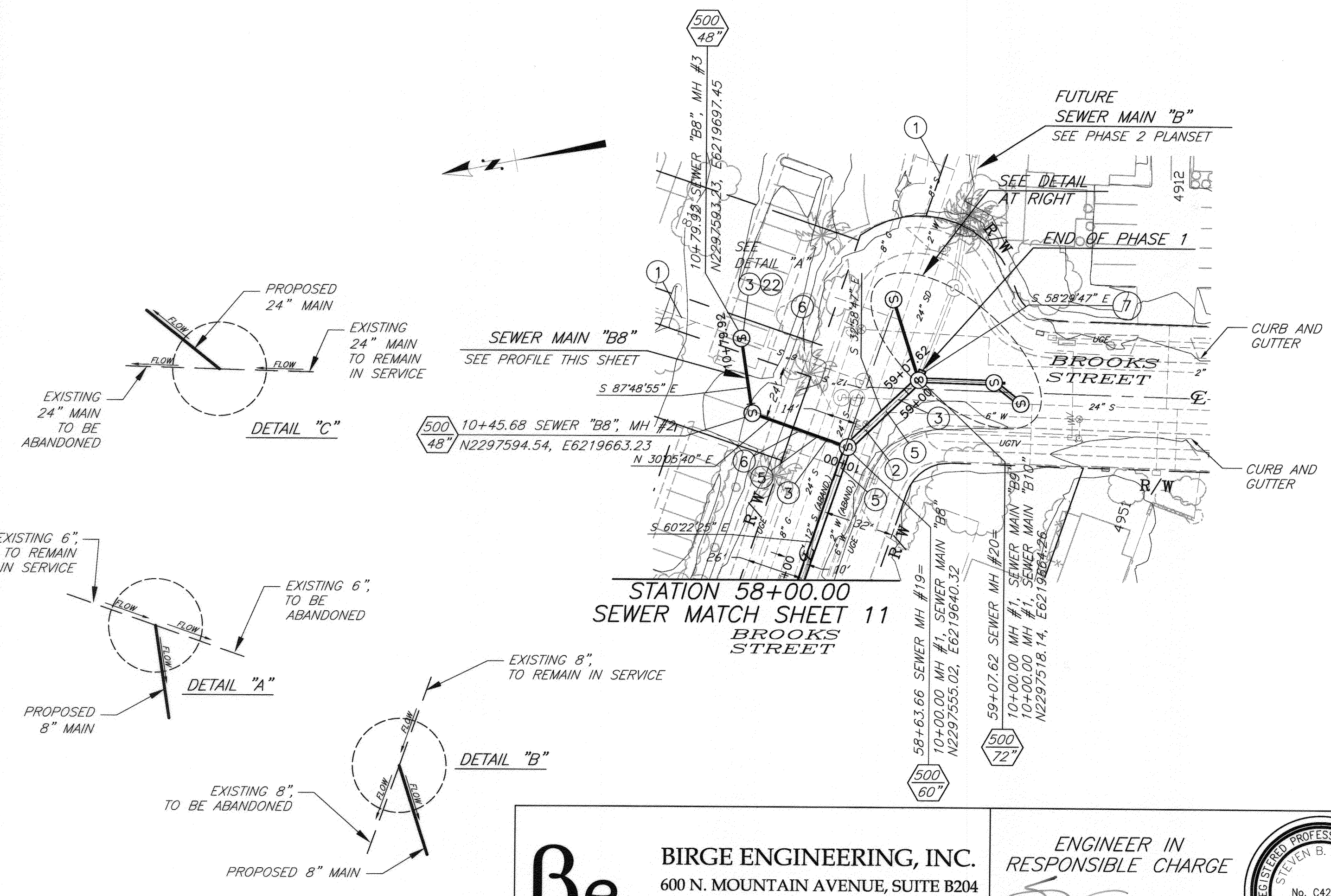
IMPORTANT NOTICE
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PAVEMENT REPLACEMENT PER SECTION DETAIL "G", SHEET 2



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

BENCHMARK NO. 15-43
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV = 753.831

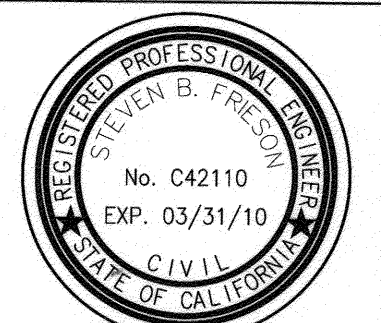


- SPECIFIC CONSTRUCTION NOTES**
- EXISTING SEWER MAIN TO REMAIN IN SERVICE.
 - PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO VERIFY LOCATION. PROTECT WATER UTILITY IN PLACE. IF RELOCATION IS REQUIRED CONTRACTOR IS TO NOTIFY THE WATER UTILITY ENGINEER. THE WATER UTILITY SHALL HAVE 30 BUSINESS DAYS TO RELOCATE THE INTERFERING FACILITIES.
 - PROTECT AND MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION.
 - PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
 - RECONNECT LATERALS PER STD. DWG. 554 OR REPLACE PER STD. DWG. 562 AND PER SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY LATERAL LOCATION AND CONNECTION.
 - CONSTRUCT 1' STUB FOR FUTURE 36" CONNECTION. CAP PER SPECIFICATIONS.
 - CONSTRUCT 1' STUB FOR FUTURE 8" VCP CONNECTION. CAP PER SPECIFICATIONS.
 - CONSTRUCT NEW MANHOLE PER INDICATED MANHOLE SCHEMATIC DETAIL.

MANHOLE SCHEMATIC
 NOT TO SCALE

Be BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/11/09



ADDED SLOPE & CORRECTED ELEVATION ON EA 'B10'

DESIGNED BY: [Signature] DRAWN BY: CDRAKE CHECKED BY: [Signature]

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature] DATE: 12/10/09

PRINCIPAL ENGINEER: [Signature] DATE: 12/10/09

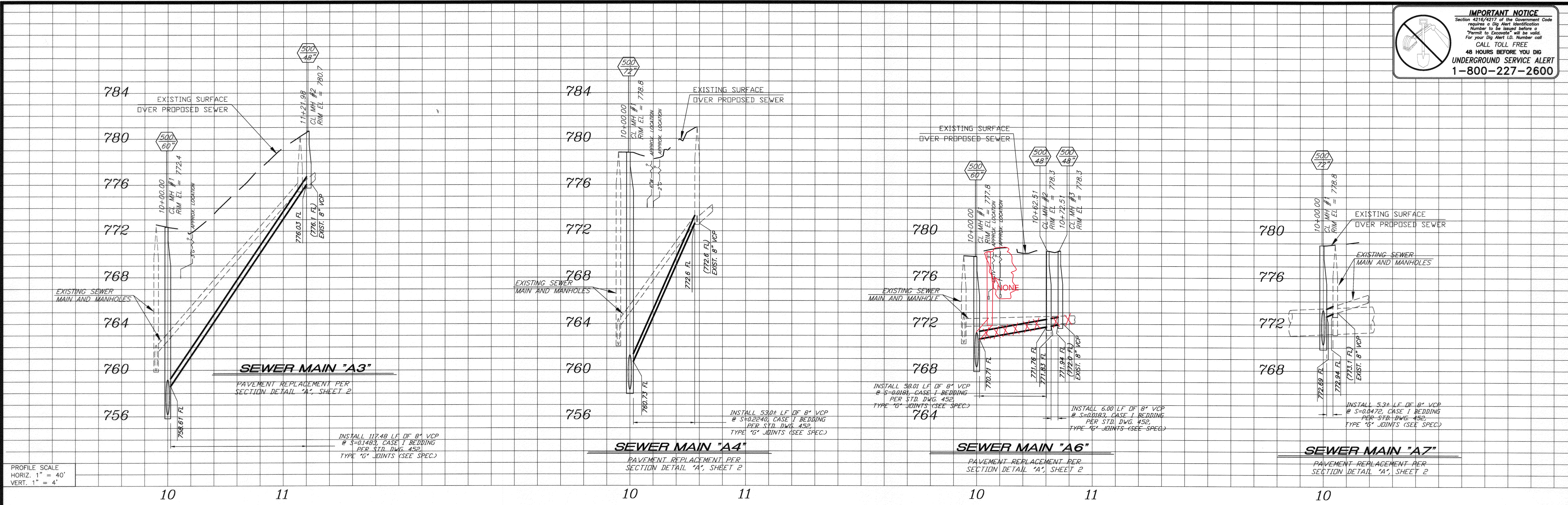
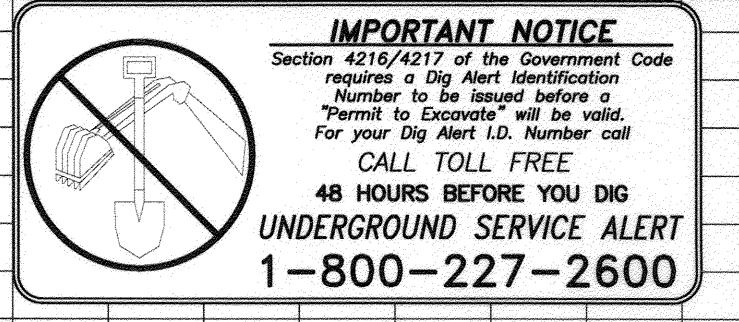
SURVEYOR: [Signature] DATE: 12/10/09

ENGINEERING MANAGER: [Signature] DATE: 12/10/09

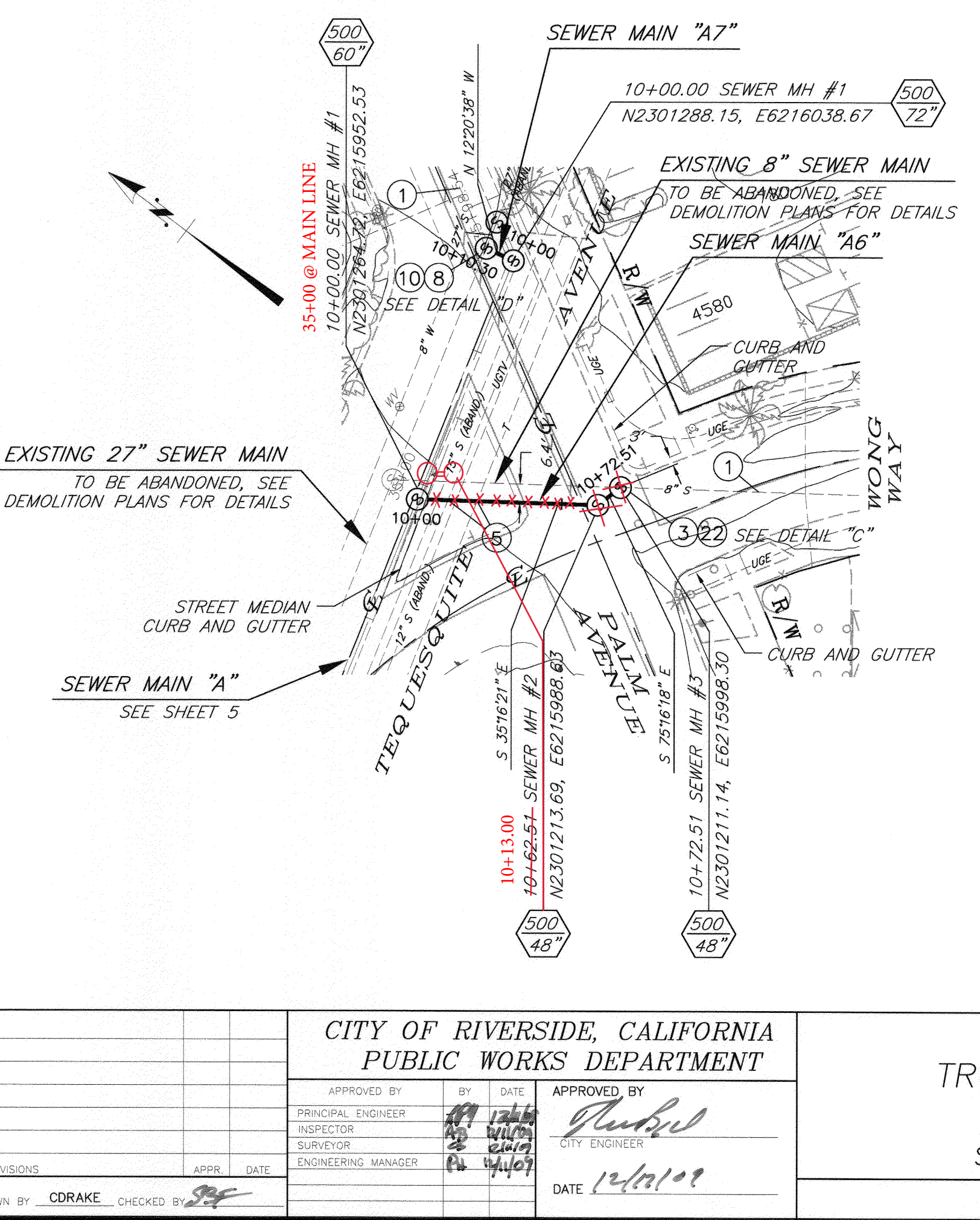
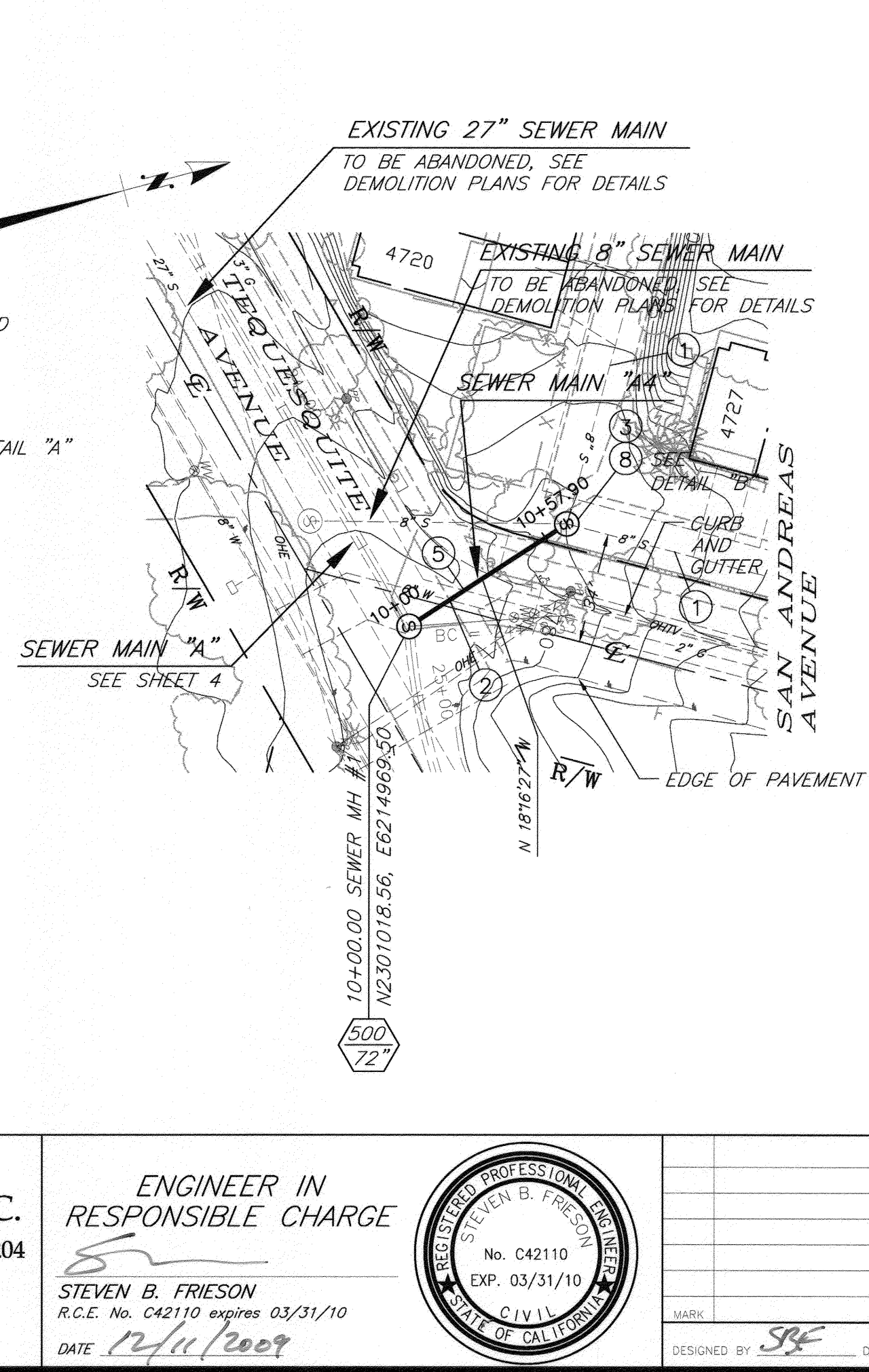
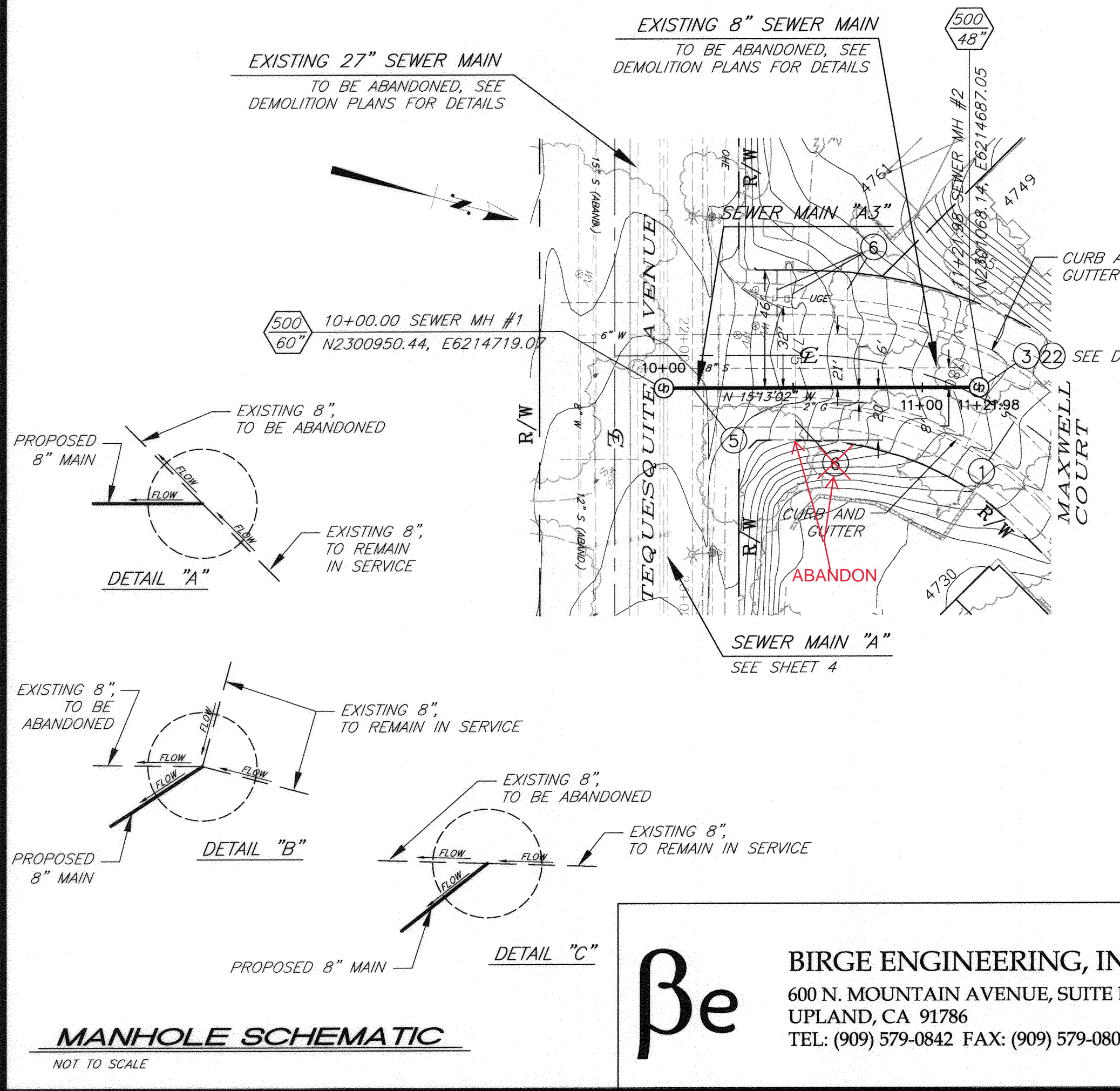
TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 BROOKS STREET
 FROM STATION 58+00.00 TO STATION 59+07.62

ACC. No. _____ W.O. _____
 S-2074
 SHEET 12 OF 29

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BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "5-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE.
ELEV - 753.831



- SPECIFIC CONSTRUCTION NOTES**
- EXISTING SEWER MAIN TO REMAIN IN SERVICE.
 - PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO VERIFY LOCATION, PROTECT WATER UTILITY IN PLACE. IF RELOCATION IS REQUIRED CONTRACTOR IS TO NOTIFY THE WATER UTILITY ENGINEER. THE WATER UTILITY SHALL HAVE 30 BUSINESS DAYS TO RELOCATE THE INTERFERING FACILITIES.
 - PROTECT AND MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION.
 - PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
 - RECONNECT LATERALS PER STD. DWG. 554 OR REPLACE PER STD. DWG. 562 AND PER SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY LATERAL LOCATION AND CONNECTION.
 - MODIFY EXISTING MANHOLE INLET OR OUTLET AND RESHAPE BOTTOM PER INDICATED MANHOLE SCHEMATIC DETAIL.
 - REMODEL EXISTING MANHOLE BY CONSTRUCTING NEW BOTTOM, CHANNELS AND SHELVES OVER THE EXISTING. REMOVE TOP 3" OF EXISTING BOTTOM PRIOR TO CONSTRUCTING NEW BOTTOM.
 - CONSTRUCT NEW MANHOLE PER INDICATED MANHOLE SCHEMATIC DETAIL.

Be
BIRGE ENGINEERING, INC.
600 N. MOUNTAIN AVENUE, SUITE B204
UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 12/11/09

APPROVED BY: [Signature]
INSPECTOR: [Signature]
SUPERVISOR: [Signature]
ENGINEERING MANAGER: [Signature]

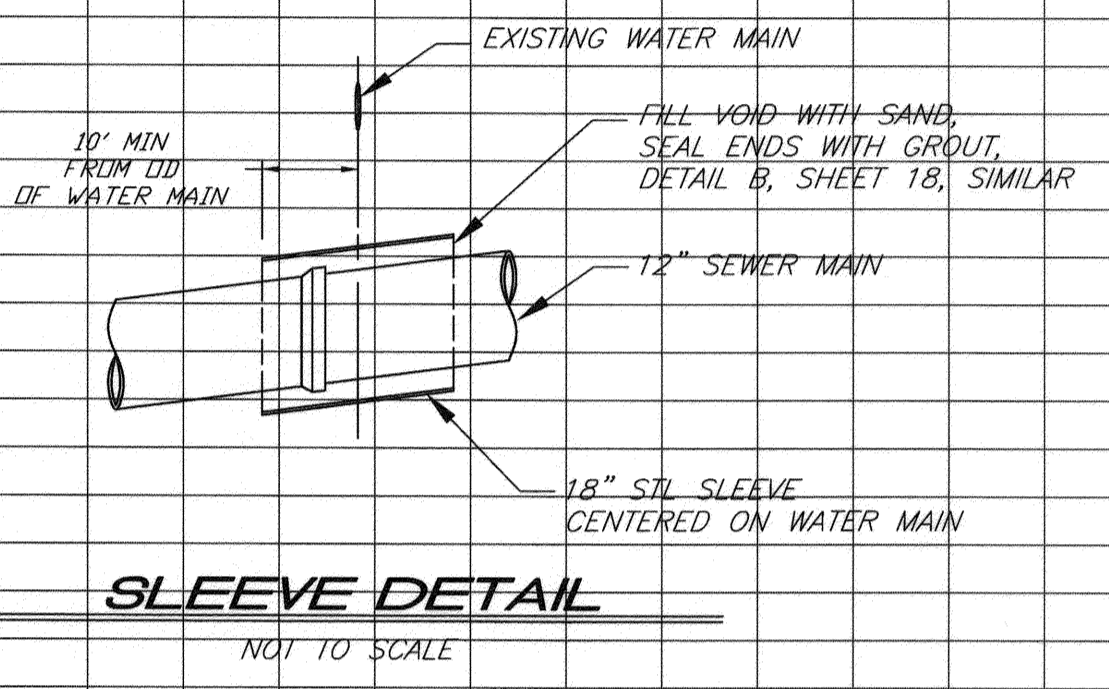
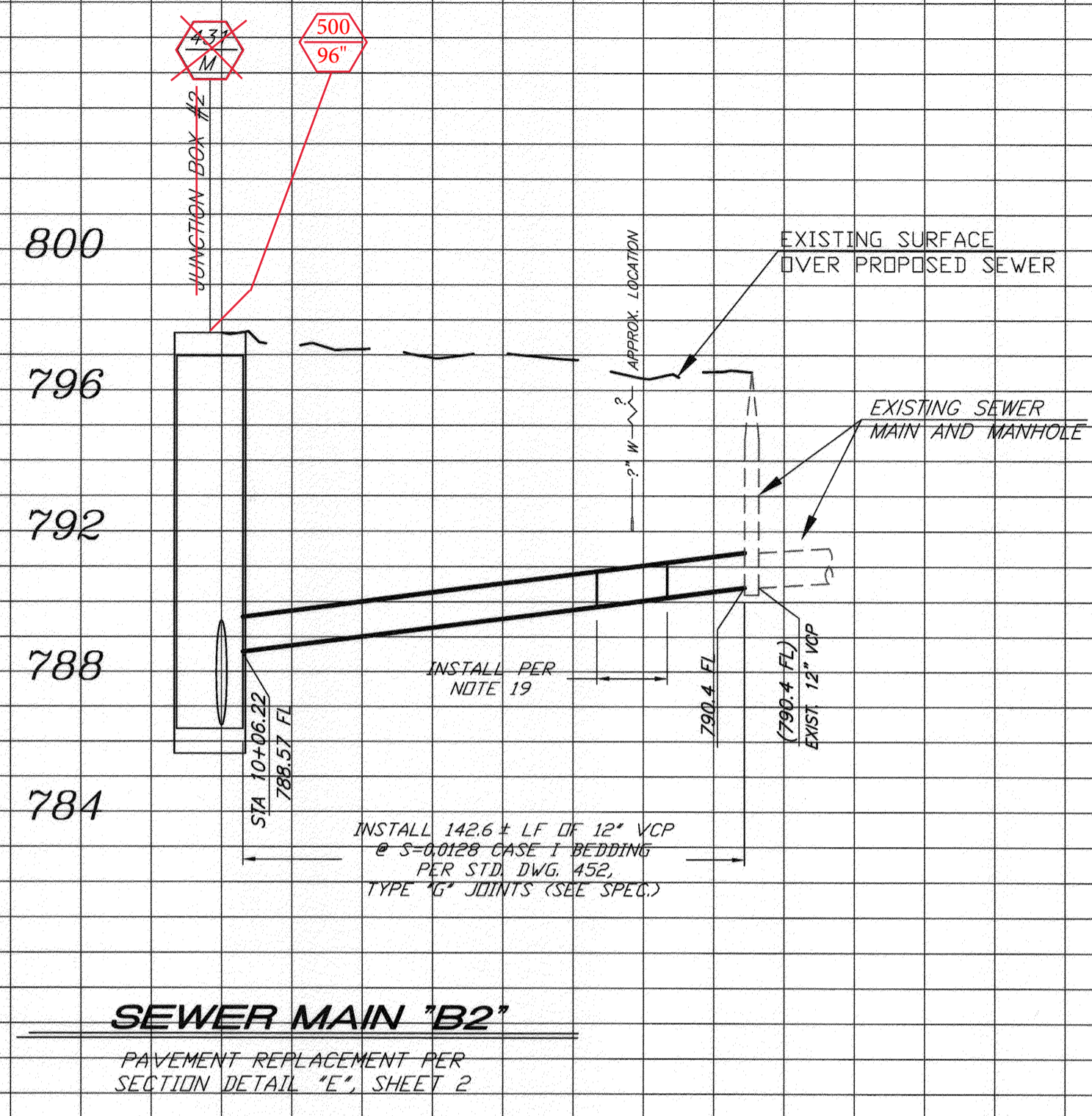
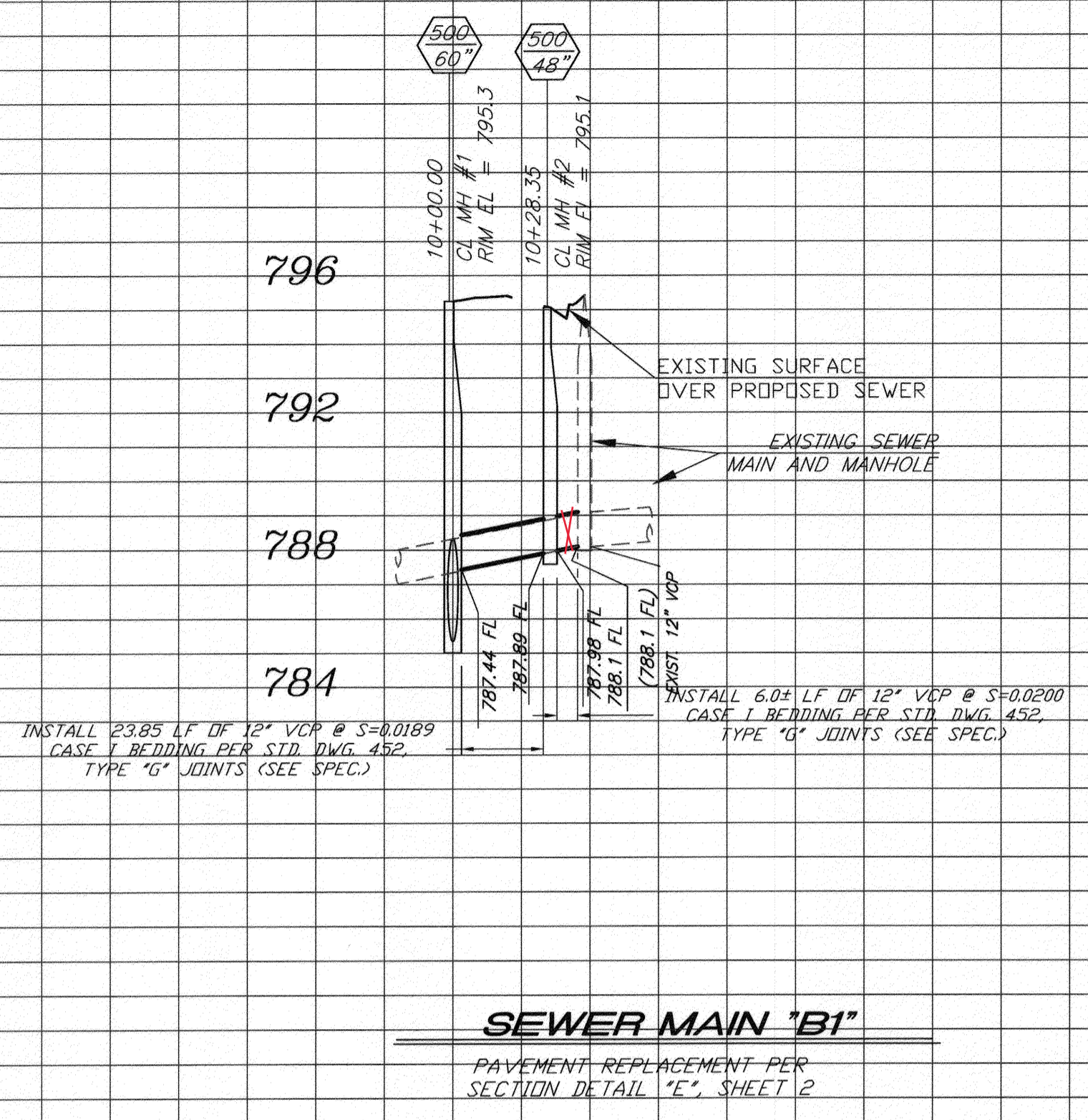
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
TEQUESQUITE AVENUE
SEWER MAINS A3, A4, A6 AND A7

ACC. No. _____
W.O. _____
S-2074
SHEET 13 OF 29

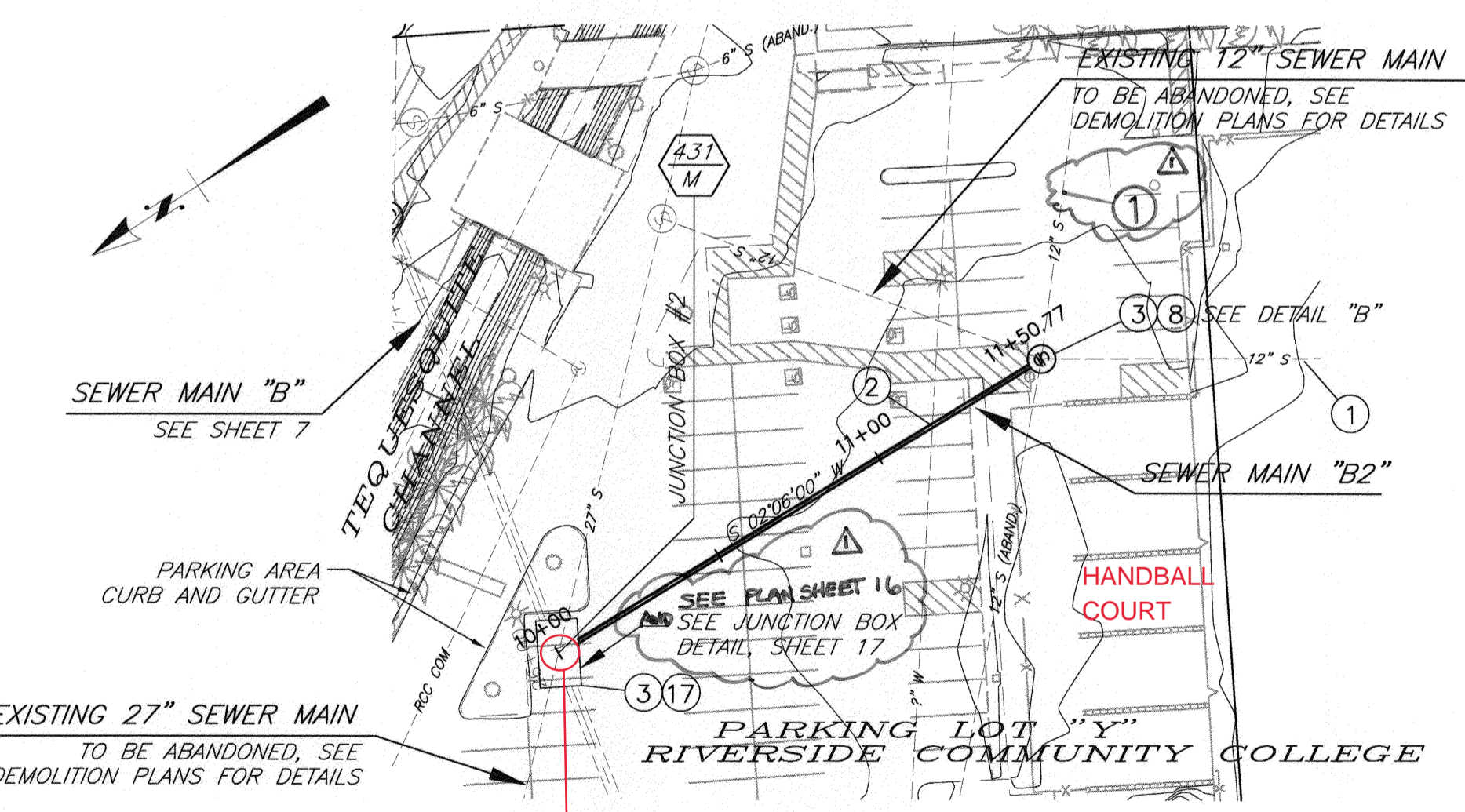
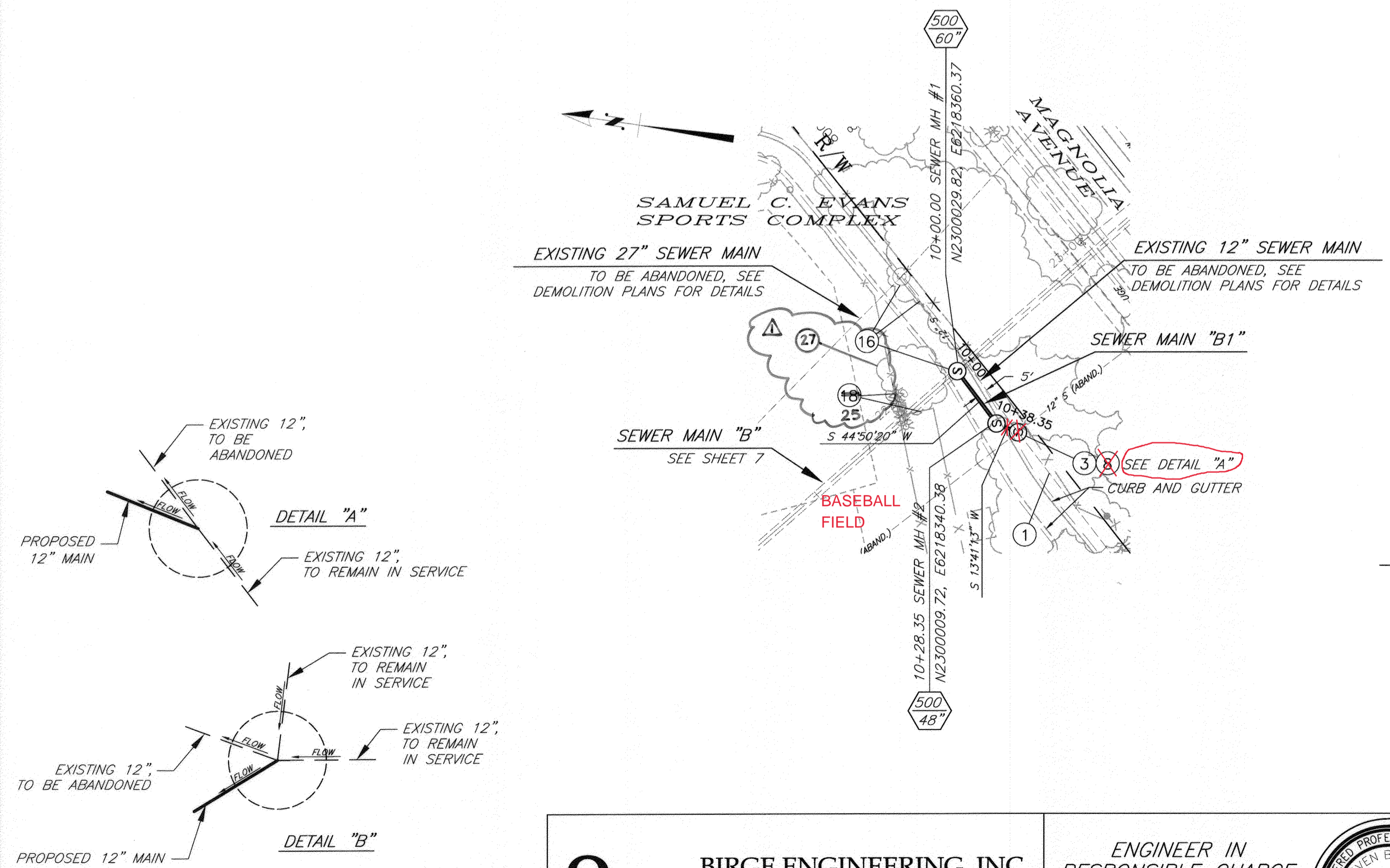
V:\Projects\08R01001_Tequesquite\CAD\CDOCS\WestReg-Sheet1.3.DWG 12/10/09 17:33

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



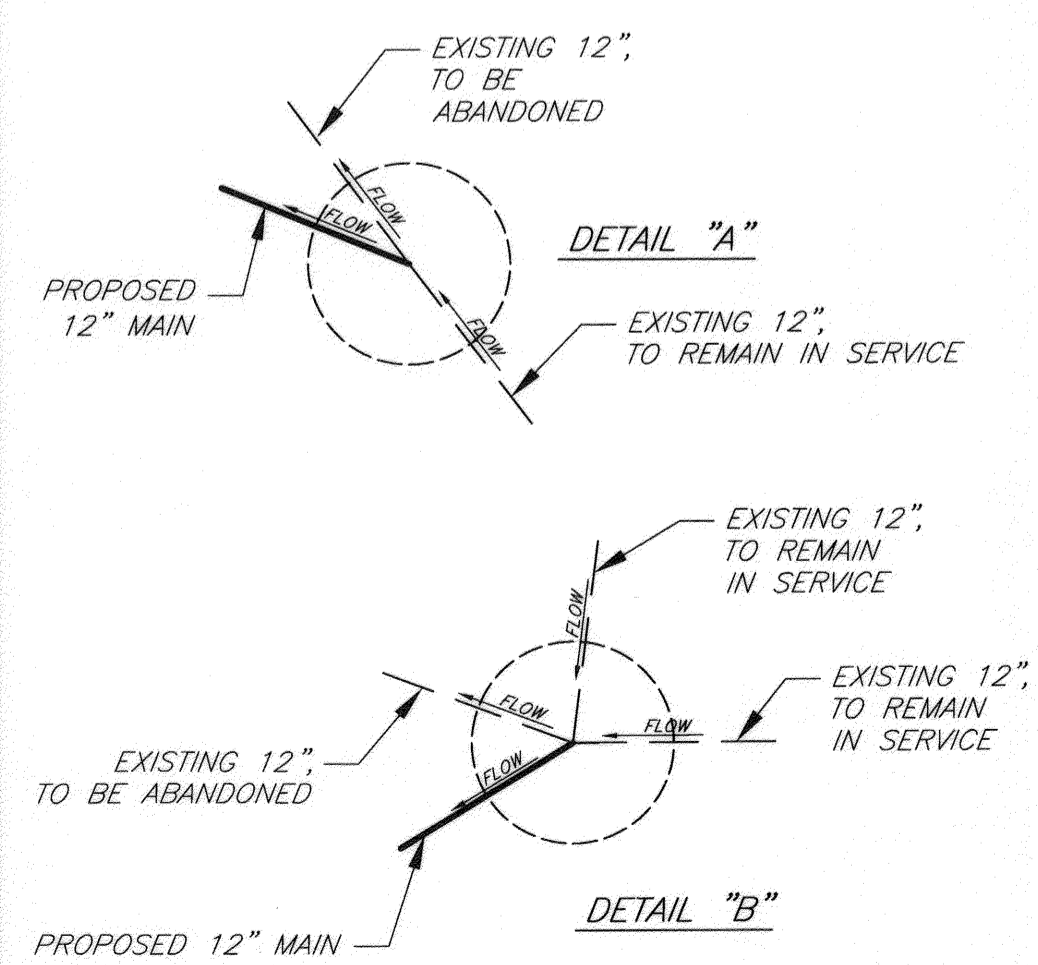
PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831



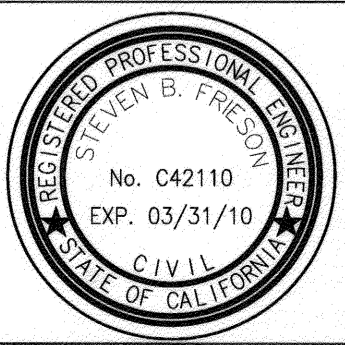
SPECIFIC CONSTRUCTION NOTES

- 1 EXISTING SEWER MAIN TO REMAIN IN SERVICE.
- 2 PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO VERIFY LOCATION. PROTECT WATER UTILITY IN PLACE. IF RELOCATION IS REQUIRED CONTRACTOR IS TO NOTIFY THE WATER UTILITY ENGINEER. THE WATER UTILITY SHALL HAVE 30 BUSINESS DAYS TO RELOCATE THE INTERFERING FACILITIES.
- 3 PROTECT AND MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION.
- 8 MODIFY EXISTING MANHOLE INLET OR OUTLET AND RESHAPE BOTTOM PER INDICATED MANHOLE SCHEMATIC DETAIL.
- 16 ACTIVATE 36" SEWER MAIN "B" BETWEEN MH#4 AND DOWNSTREAM CONNECTION IN TEQUESQUITE AND BROCKTON BEFORE FINAL CONSTRUCTION OF THE CONNECTION AT MH#3 AND SEWER MAIN "B1". DEMOLISH AFFECTED EXISTING SEWER MAINS PER DEMOLITION PLANS AND SPECIFICATIONS.
- 17 REFER TO SHEETS 7 AND 17 FOR JUNCTION BOX CONSTRUCTION PLAN AND DETAILS.
- 18 PROTECT FENCING, TRACK AND BASEBALL FIELD TURF WHERE POSSIBLE. REPLACE ANY DAMAGED FENCING, TRACK OR BASEBALL FIELD TURF PER SPECIFICATIONS. NOT USG
- 19 INSTALL 18" DIA (0.250" WALL), STEEL SLEEVE, 20LF CONTINUOUS (NO JOINTS), CASE 1 BEDDING PER STD. DWG. 452 AND DETAIL ABOVE.
- 25 PROTECT EXISTING FENCING IN PLACE
- 27 PROTECT EXISTING TREE AND/OR PALM IN PLACE



B
 BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/11/2009



CHANGED AND ADDED NOTES

MARK	REVISIONS	APPR	DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]
 PRINCIPAL ENGINEER
 INSPECTOR: [Signature]
 SURVEYOR: [Signature]
 ENGINEERING MANAGER: [Signature]

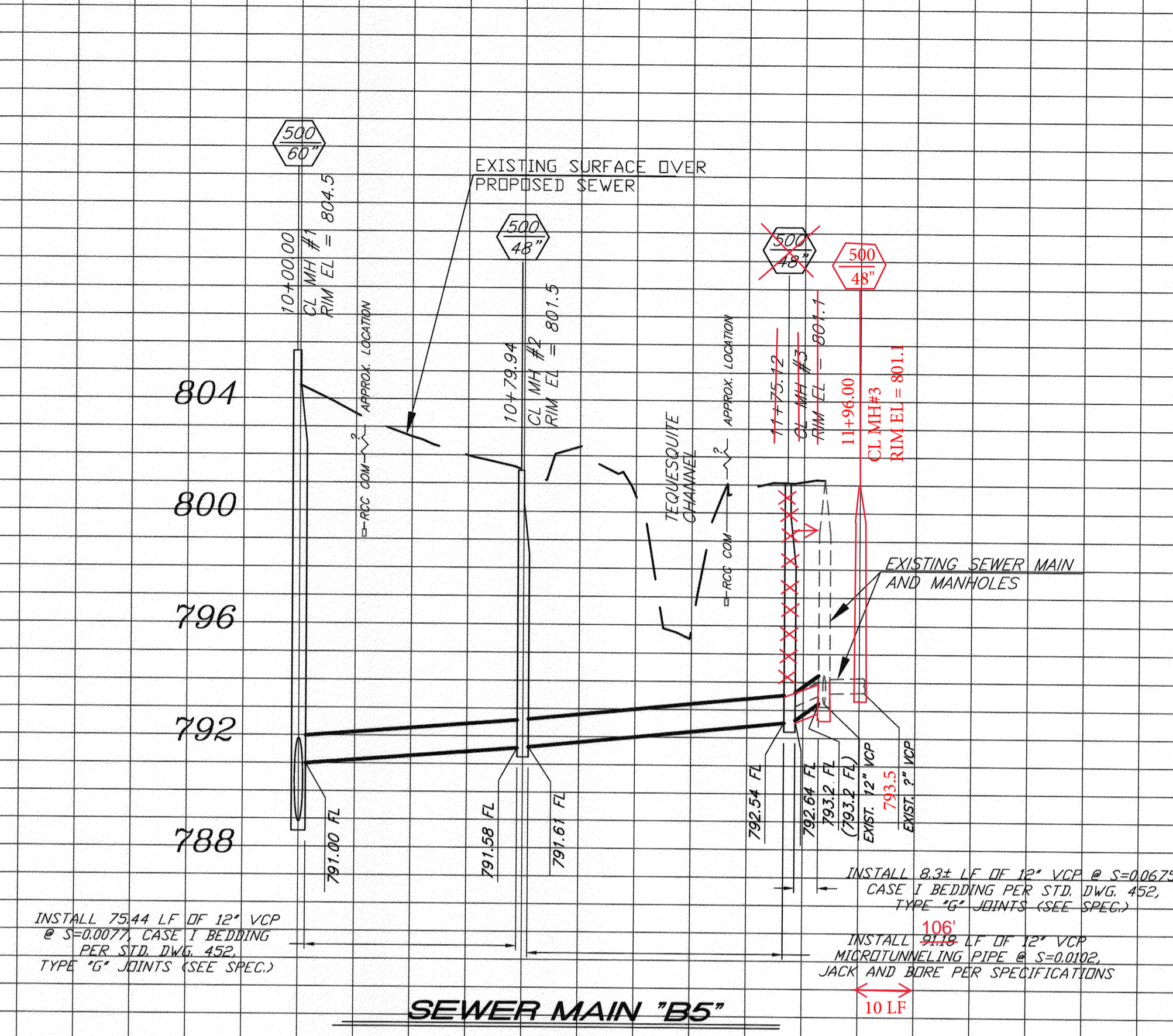
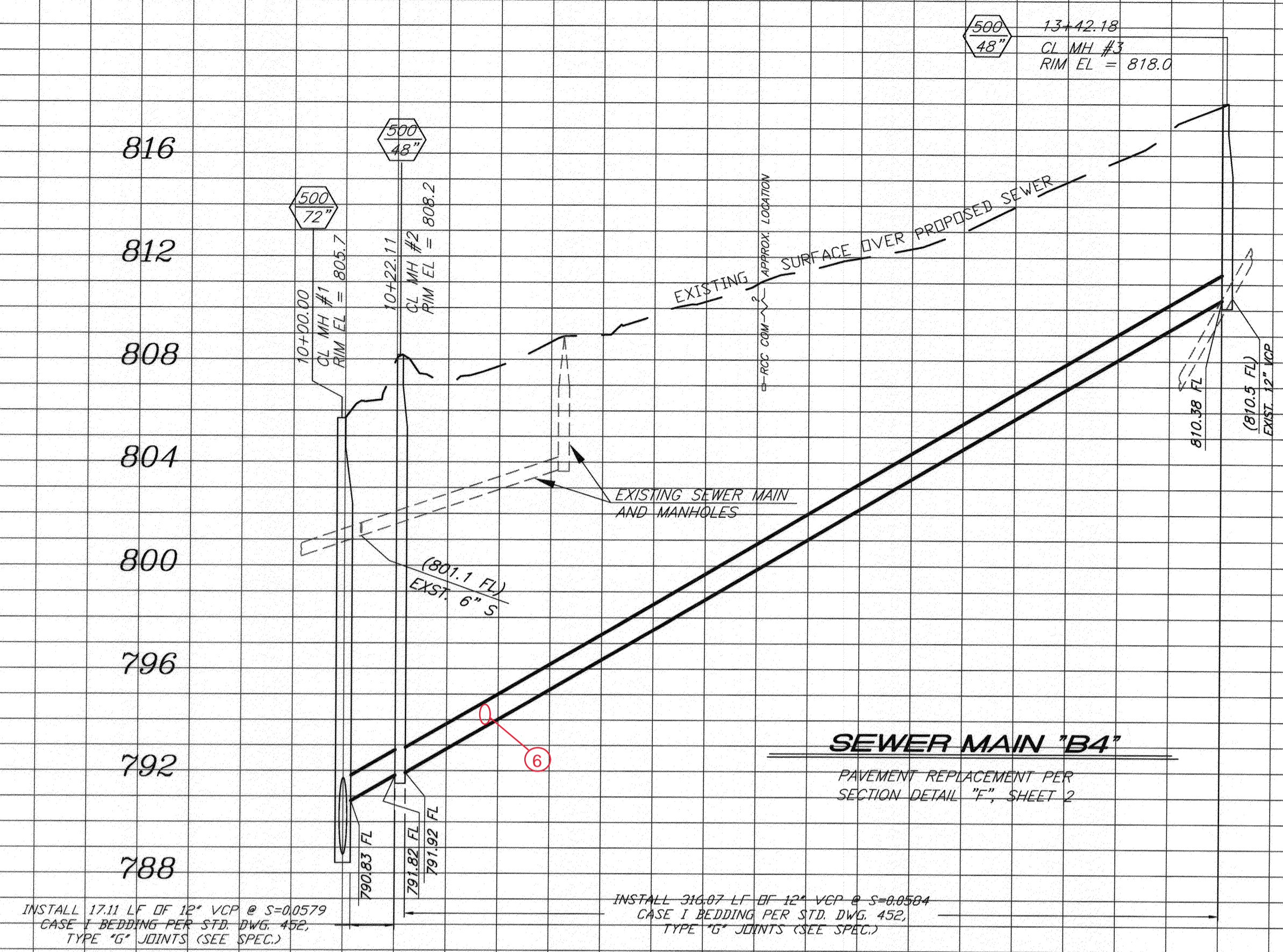
DATE: 12/10/09

TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 RIVERSIDE COMMUNITY COLLEGE
 SEWER MAINS B1 AND B2

ACC. No. _____ W.O. _____
 S-2074
 SHEET 14 OF 29

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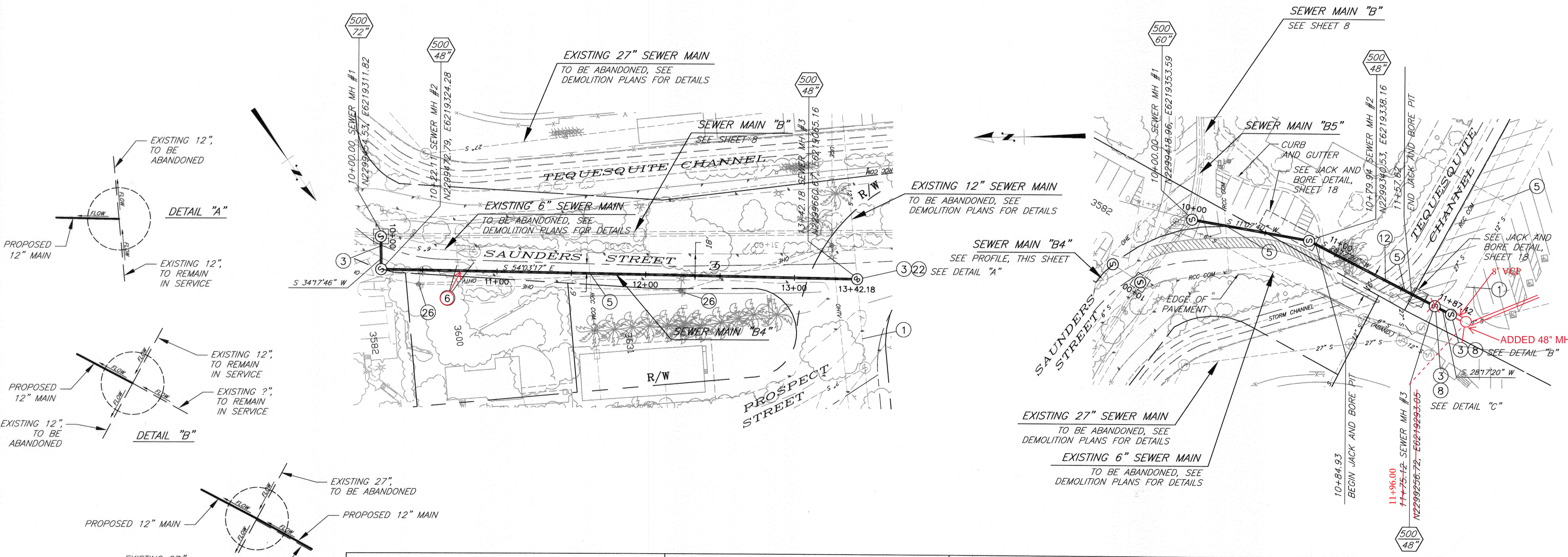
IMPORTANT NOTICE
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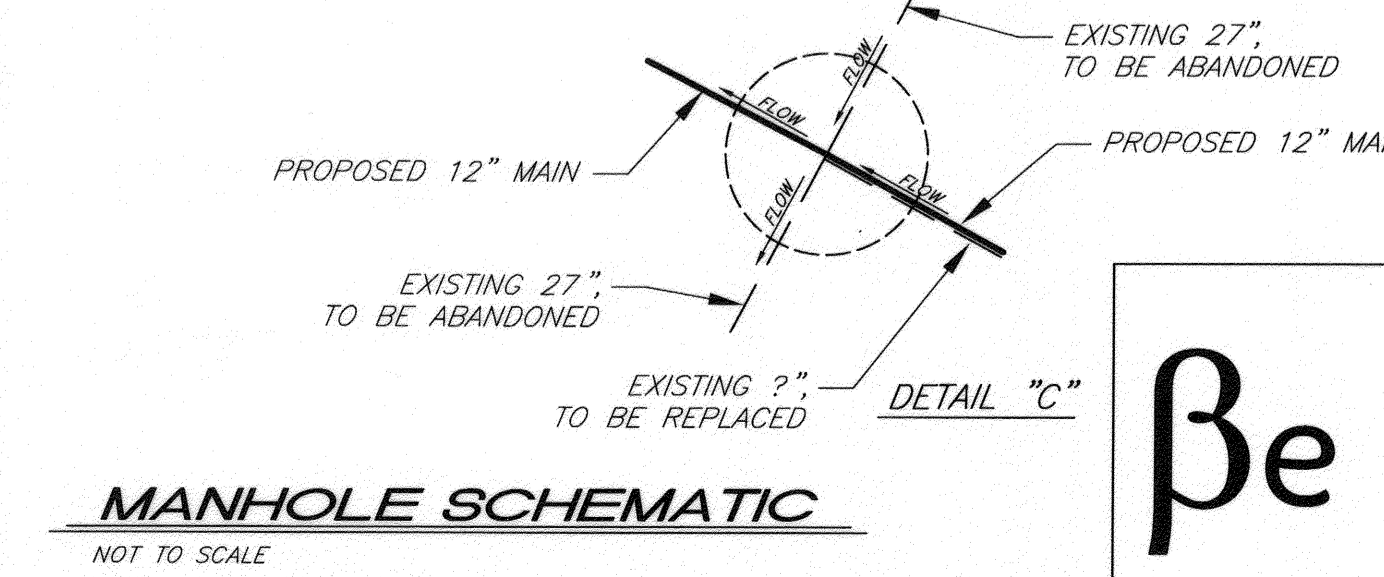
PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'

10 11 12 13 10 11 12

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV = 753.831

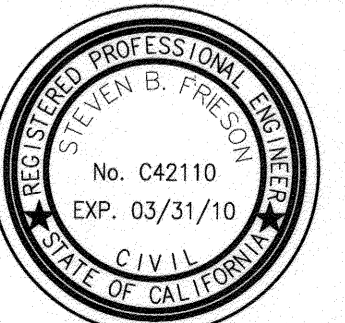


- SPECIFIC CONSTRUCTION NOTES**
- 1 EXISTING SEWER MAIN TO REMAIN IN SERVICE.
 - 3 PROTECT AND MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION.
 - 5 PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
 - 6 RECONNECT LATERALS PER STD. DWG. 554 OR REPLACE PER STD. DWG. 562 AND PER SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY LATERAL LOCATION AND CONNECTION.
 - 8 MODIFY EXISTING MANHOLE PER INDICATED MANHOLE SCHEMATIC DETAIL.
 - 12 PROTECT AND SUPPORT EXISTING STORM CHANNEL IN PLACE.
 - 22 CONSTRUCT NEW MANHOLE PER INDICATED MANHOLE SCHEMATIC DETAIL.
 - 26 PROTECT EXISTING LIGHT/POWER POLE IN PLACE.



Be BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

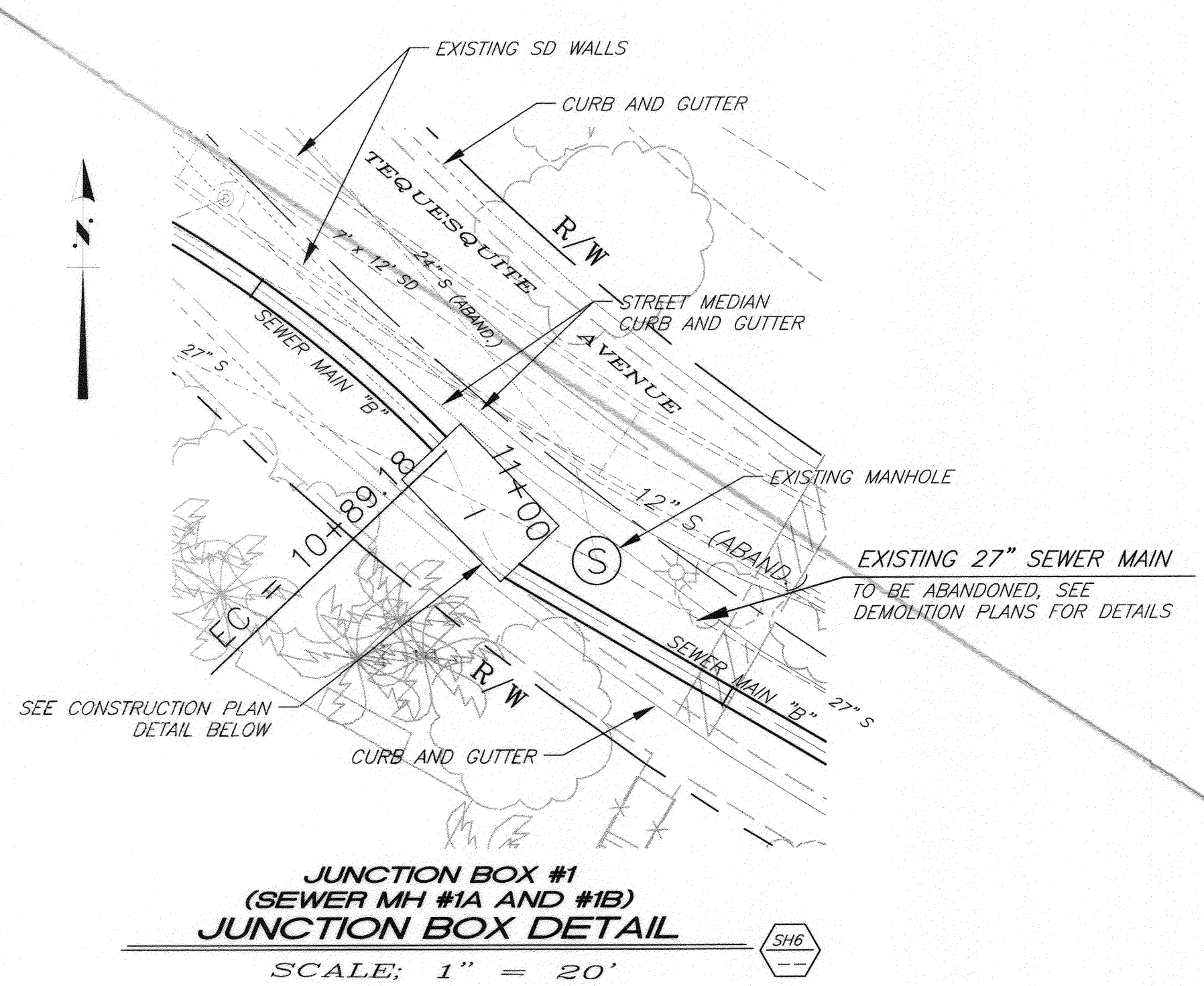
ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/14/2009



CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT	
APPROVED BY: <i>[Signature]</i> PRINCIPAL ENGINEER	DATE: 12/14/09
INSPECTOR: <i>[Signature]</i>	DATE: 12/14/09
ENGINEERING MANAGER: <i>[Signature]</i>	DATE: 12/14/09
DESIGNED BY: <i>[Signature]</i>	DRAWN BY: <i>[Signature]</i>
REVISIONS:	CHECKED BY: <i>[Signature]</i>

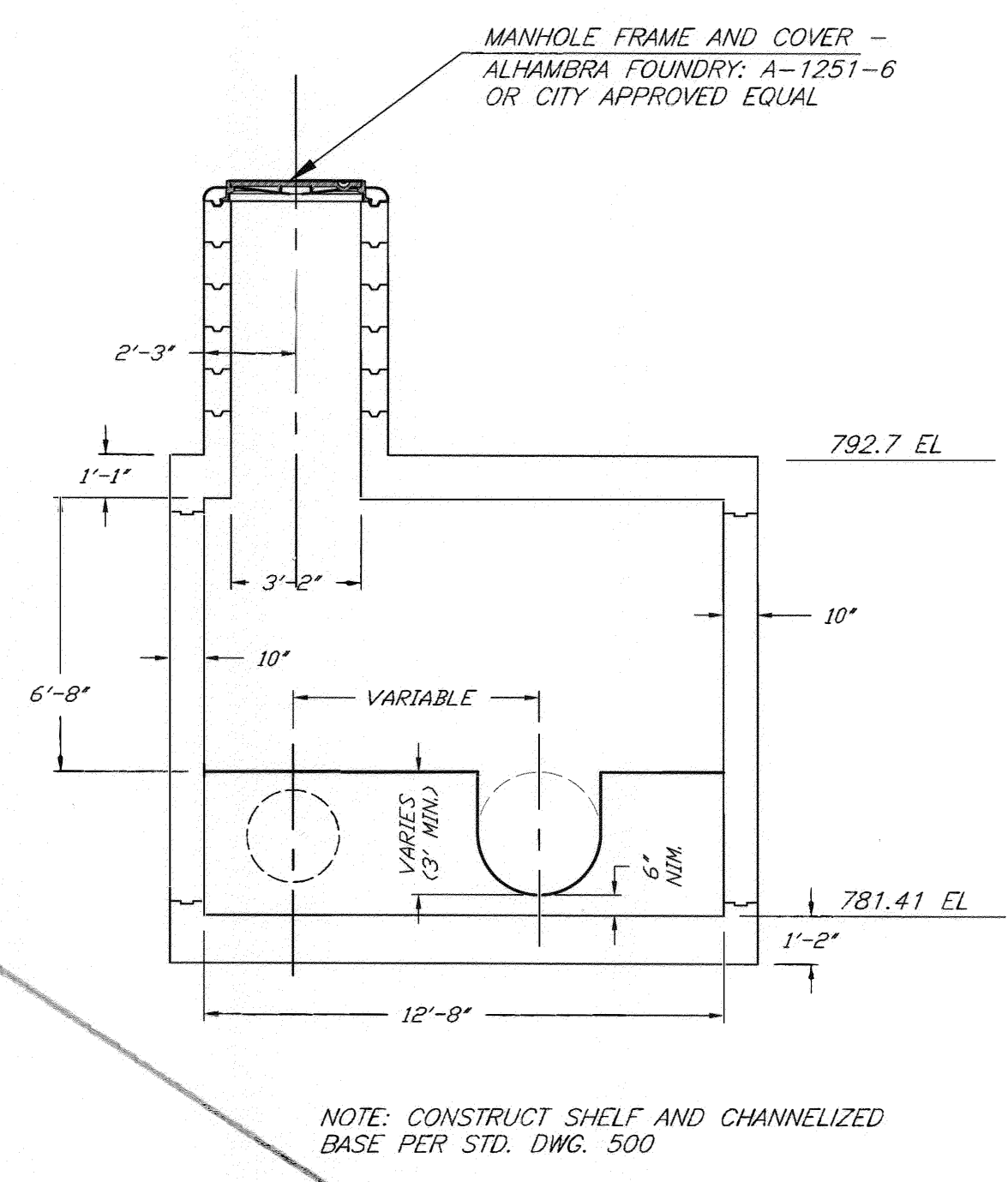
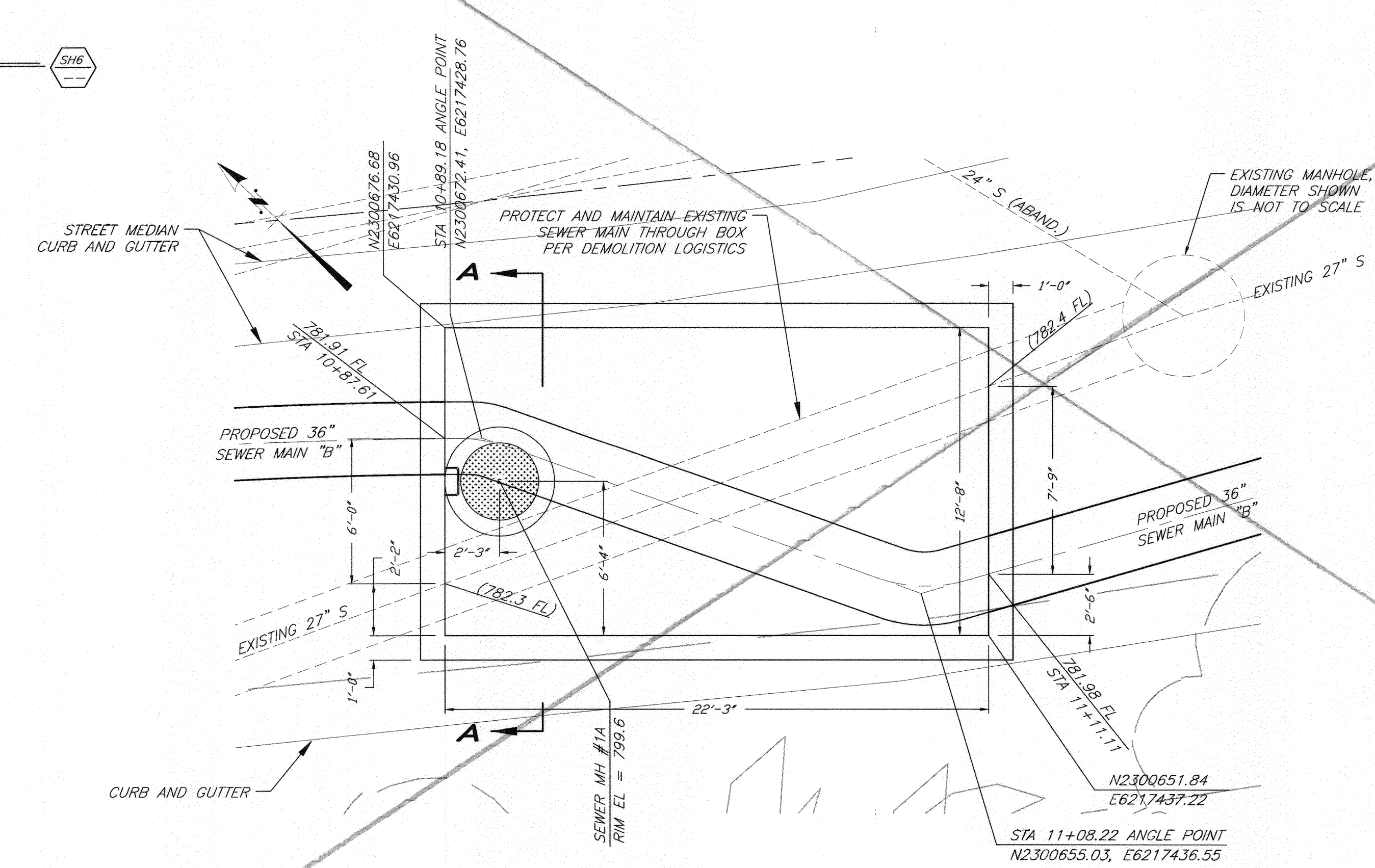
CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 RIVERSIDE COMMUNITY COLLEGE
 SEWER MAINS B4 AND B5
 ACC. No. _____ W.O. _____
 S-2074
 SHEET 15 OF 29

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SPECIFIC CONSTRUCTION NOTES

- 1 CONTRACTOR TO FIELD VERIFY ELEVATION OF EXISTING SEWER MAIN. ENGINEER TO BE NOTIFIED OF ANY VARIANCE FROM NOTED ELEVATIONS.

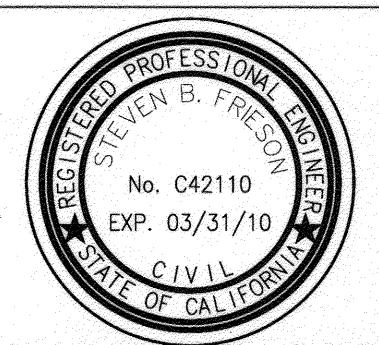


BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
ELEV - 753.831

IMPORTANT NOTICE
Section A216/4217 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 I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

BIRGE ENGINEERING, INC.
600 N. MOUNTAIN AVENUE, SUITE B204
UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 12/11/2009



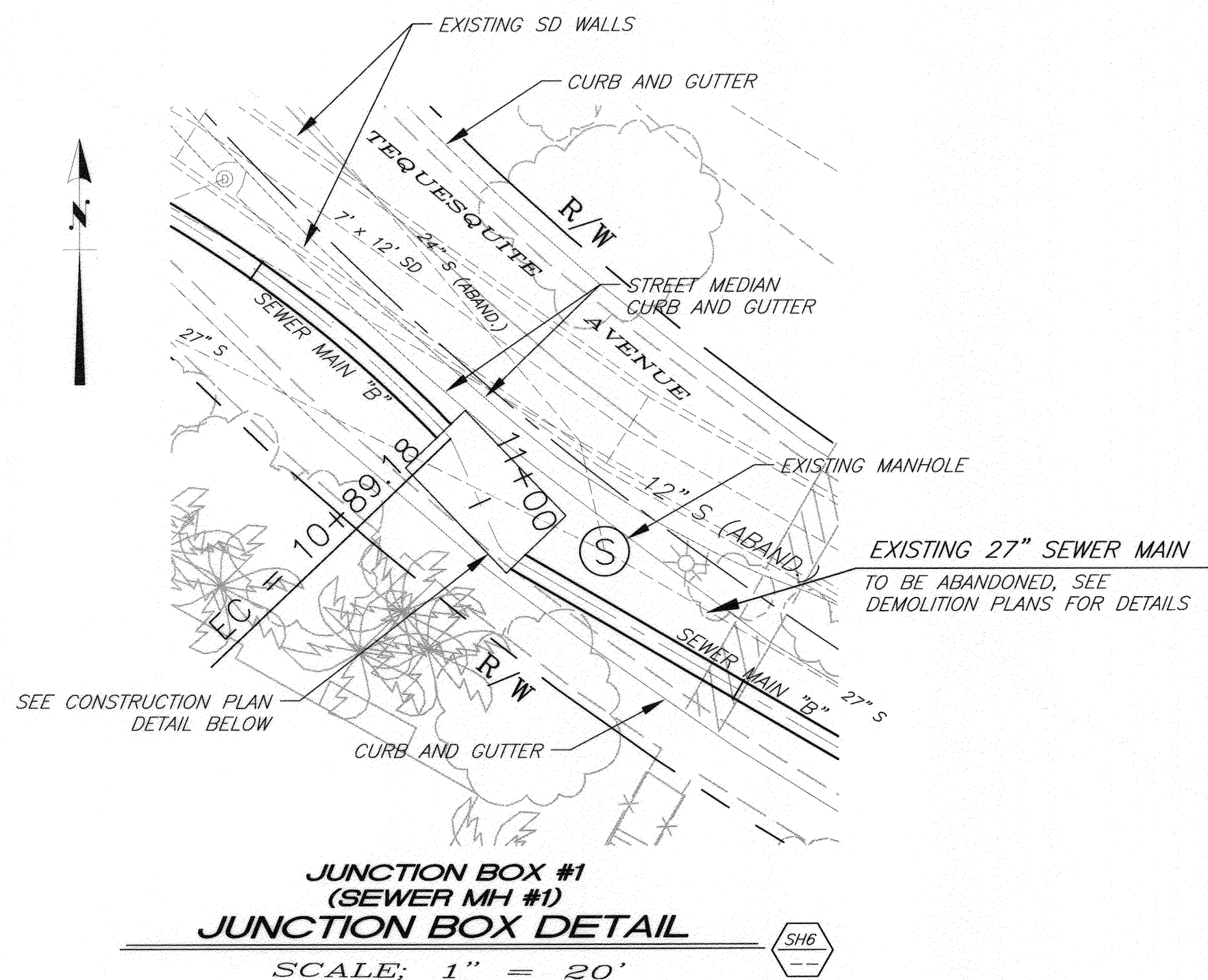
DESIGNED BY	REVISIONS	APPR.	DATE
SBF			
DRAWN BY	CORRAKE	CHECKED BY	SBF

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	SBF	12/11/09	Number 1
INSPECTOR	PR		
SURVEYOR	PR		
ENGINEERING MANAGER	PR		
CITY ENGINEER			
DATE	12/11/09		

TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
CONSTRUCTION DETAILS
JUNCTION BOX #1 (SEWER MH #1A AND #1B)
SCALE: AS SHOWN

ACC. No.	W.O.
S-2074	
SHEET	16 OF 29

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STRUCTURAL NOTES

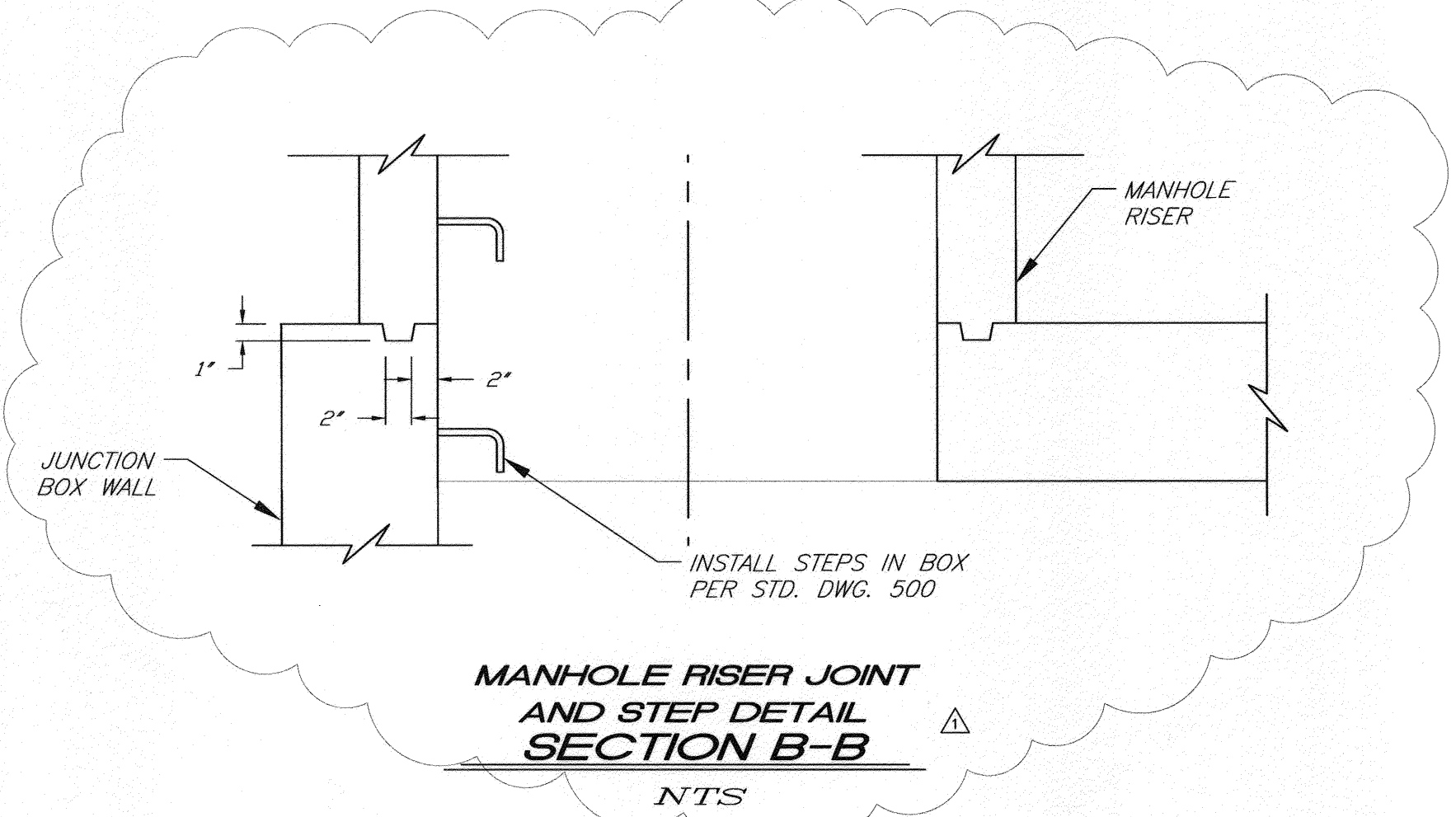
LIVE LOAD
HS20-44 UNLESS OTHERWISE SHOWN

DEAD LOAD
EARTH LOAD: = 35 pcf
INTEGRAL WATER PRESSURE: 62.4 psf PER FEET OF DEPTH
WEIGHT OF CONCRETE: 150 pcf

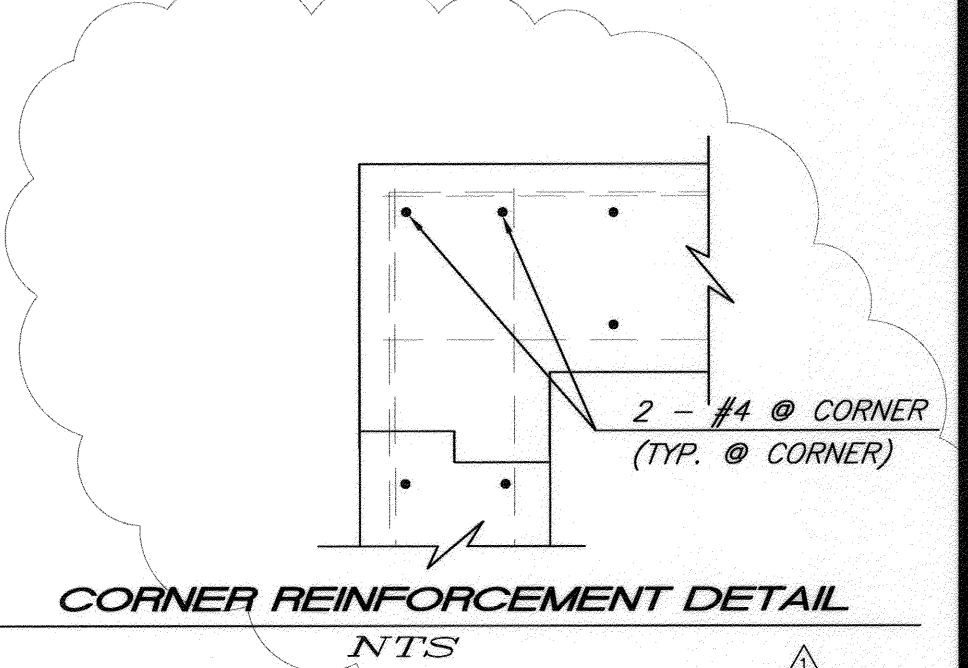
ALL DESIGN STRESSES
f_c = 4,000 psi OR 28 DAYS
f_c' = 1,800 psi
f_y = 60,000 psi
f_s = 24,000 psi
λ = 8
SHEAR STRESSES PER LATEST A.C.I. BUILDING CODE

STRUCTURAL NOTES

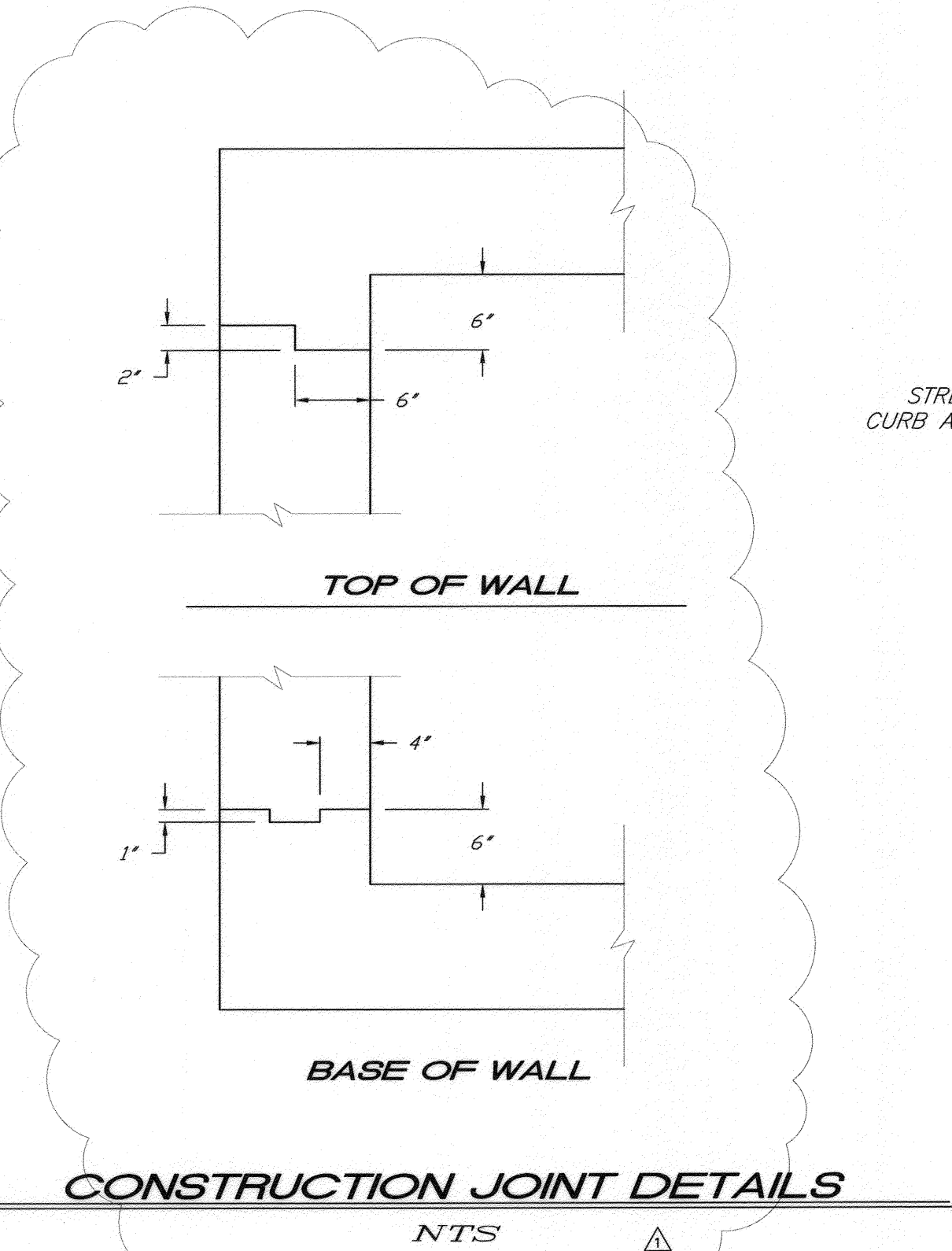
- ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION.
- PLACING OF REINFORCEMENT SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION.
- TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE PLACED WITHIN 10 INCHES OF MANHOLE OR JUNCTION STRUCTURE OPENINGS.
- TRANSVERSE CONSTRUCTION JOINTS IN WALLS AND SLABS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED. TRANSVERSE CONSTRUCTION JOINTS SHALL BE NORMAL OR RADIAL TO THE CENTERLINE OF CONSTRUCTION.
- THE TRANSVERSE REINFORCING STEEL SHALL TERMINATE ONE AND ONE-HALF INCHES FROM THE CONCRETE SURFACES UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DETAILS.
- NO SPLICES IN TRANSVERSE STEEL REINFORCEMENT WILL BE PERMITTED OTHER THAN SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER. NO MORE THAN TWO SPLICES WILL BE PERMITTED IN ANY LONGITUDINAL BAR BETWEEN TRANSVERSE JOINTS. SPLICES SHALL BE STAGGERED.
- LONGITUDINAL STEEL SHALL BE LAPPED 20 BAR DIAMETERS AT SPLICES. TRANSVERSE STEEL SHALL BE LAPPED 10 BAR DIAMETERS AT SPLICES.
- LONGITUDINAL STEEL SHALL BE CONTINUOUS AND EXTEND THROUGH ALL CONSTRUCTION JOINTS.
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, TRANSVERSE CONSTRUCTION JOINTS IN BOTH SLABS AND WALLS SHALL BE PLACED AT THE END OF EACH POUR, BUT THE SPACING THEREOF SHALL NOT EXCEED 50 FEET OR BE LESS THAN 10 FEET.
- NOTE 5 FROM CITY OF RIVERSIDE STD. DWG. 500 SHALL BE REPLACED AS FOLLOWS: "THE LOWER PORTION OF THE MANHOLE SHALL BE CONSTRUCTED AS DESIGNATED ON THIS SHEET. THE FRAME AND COVER SHALL BE SIZED AND SPECIFIED PER THE DETAILS ON THIS SHEET. A 1" MINIMUM SHELF SHALL BE MAINTAINED." ALL OTHER NOTES ON STD. DWG. 500 APPLY AS SPECIFIED ON THAT DRAWING.



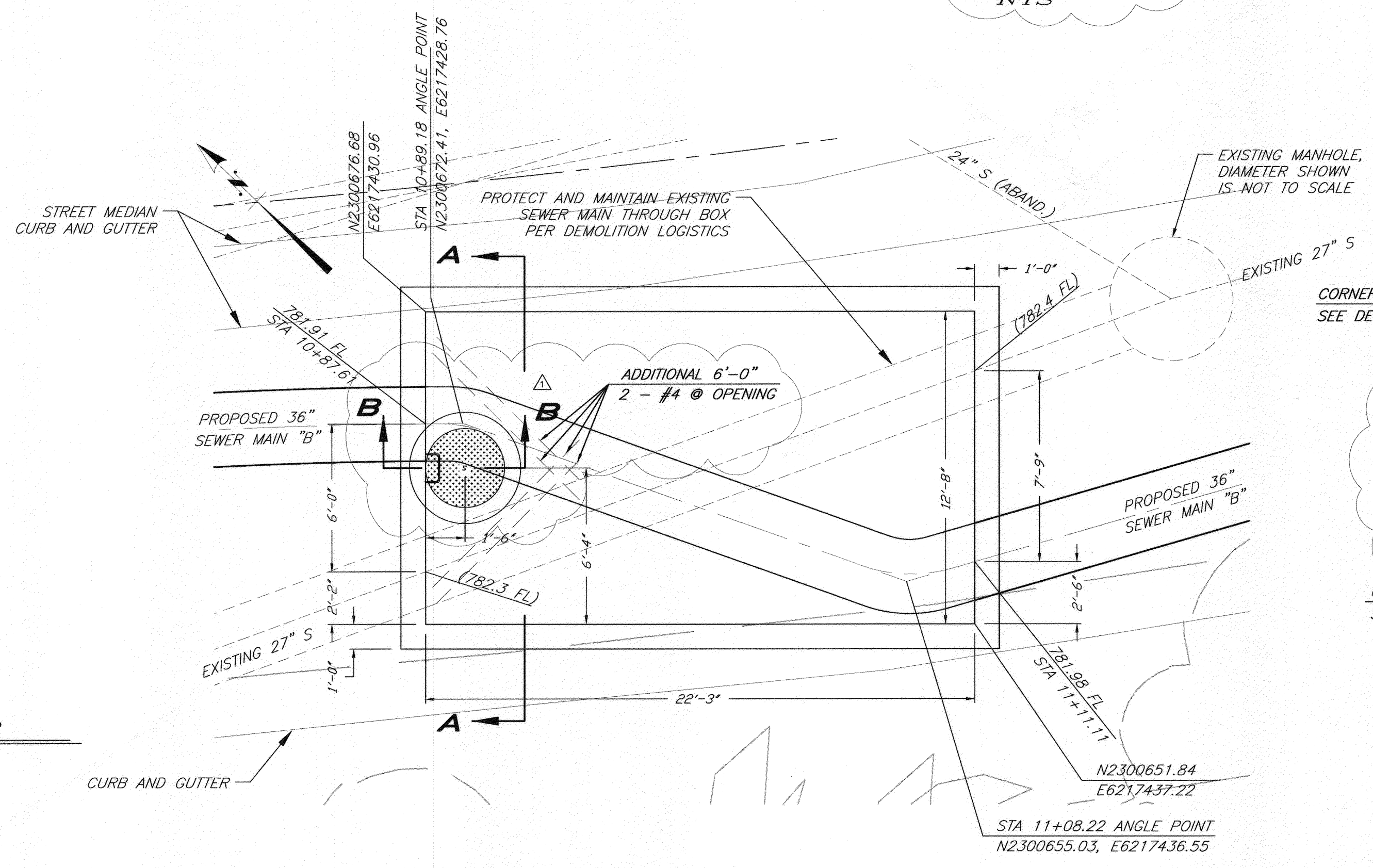
MANHOLE RISER JOINT AND STEP DETAIL SECTION B-B
NTS



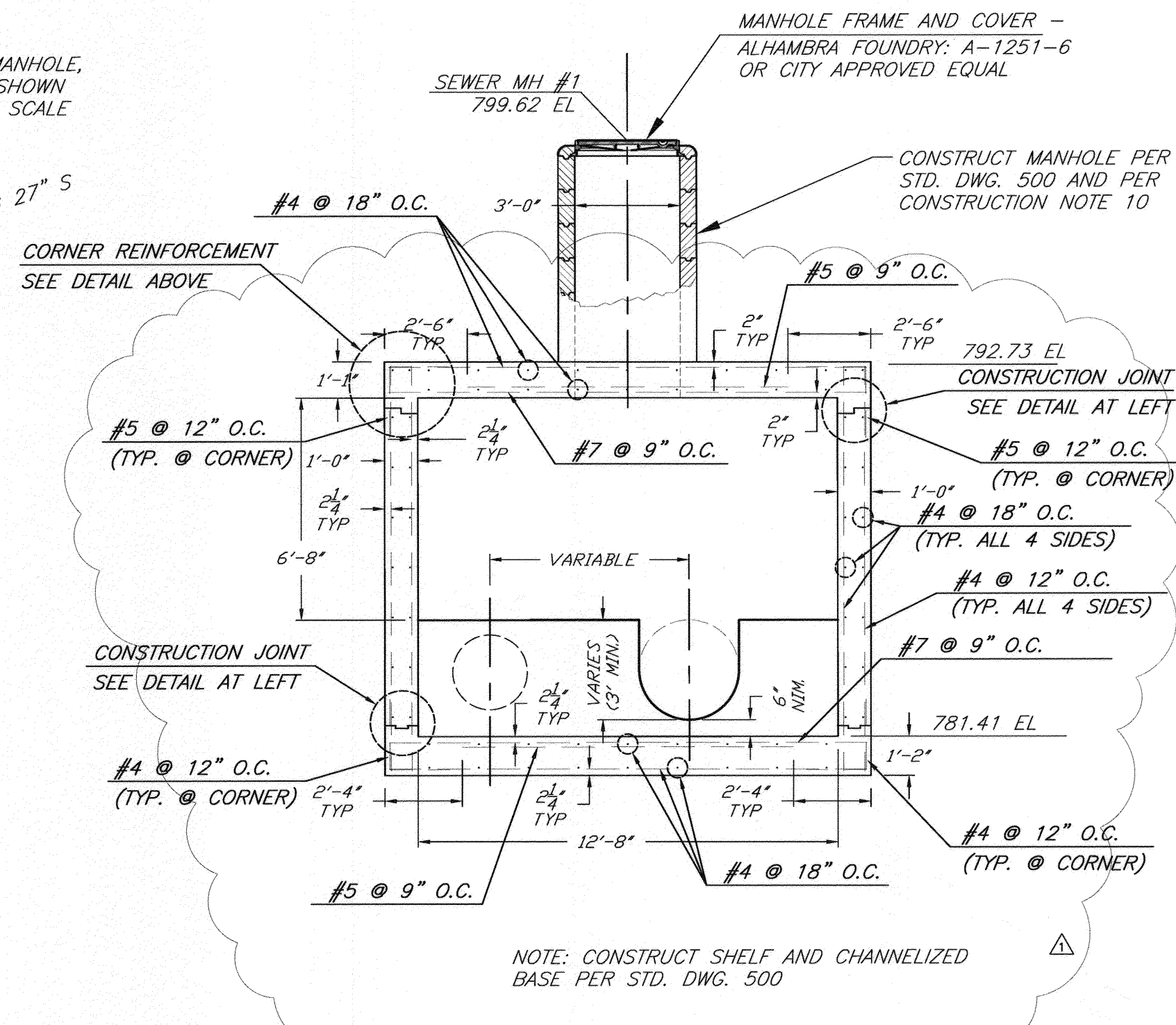
CORNER REINFORCEMENT DETAIL
NTS



CONSTRUCTION JOINT DETAILS
NTS



JUNCTION BOX #1 (SEWER MH #1) CONSTRUCTION PLAN
NTS



JUNCTION BOX #1 (SEWER MH #1) SECTION A-A
NTS

BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
ELEV - 753.831

IMPORTANT NOTICE
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BIRGE ENGINEERING, INC.
600 N. MOUNTAIN AVENUE, SUITE B204
UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. 042110 expires 03/31/10
DATE 1/11/2010



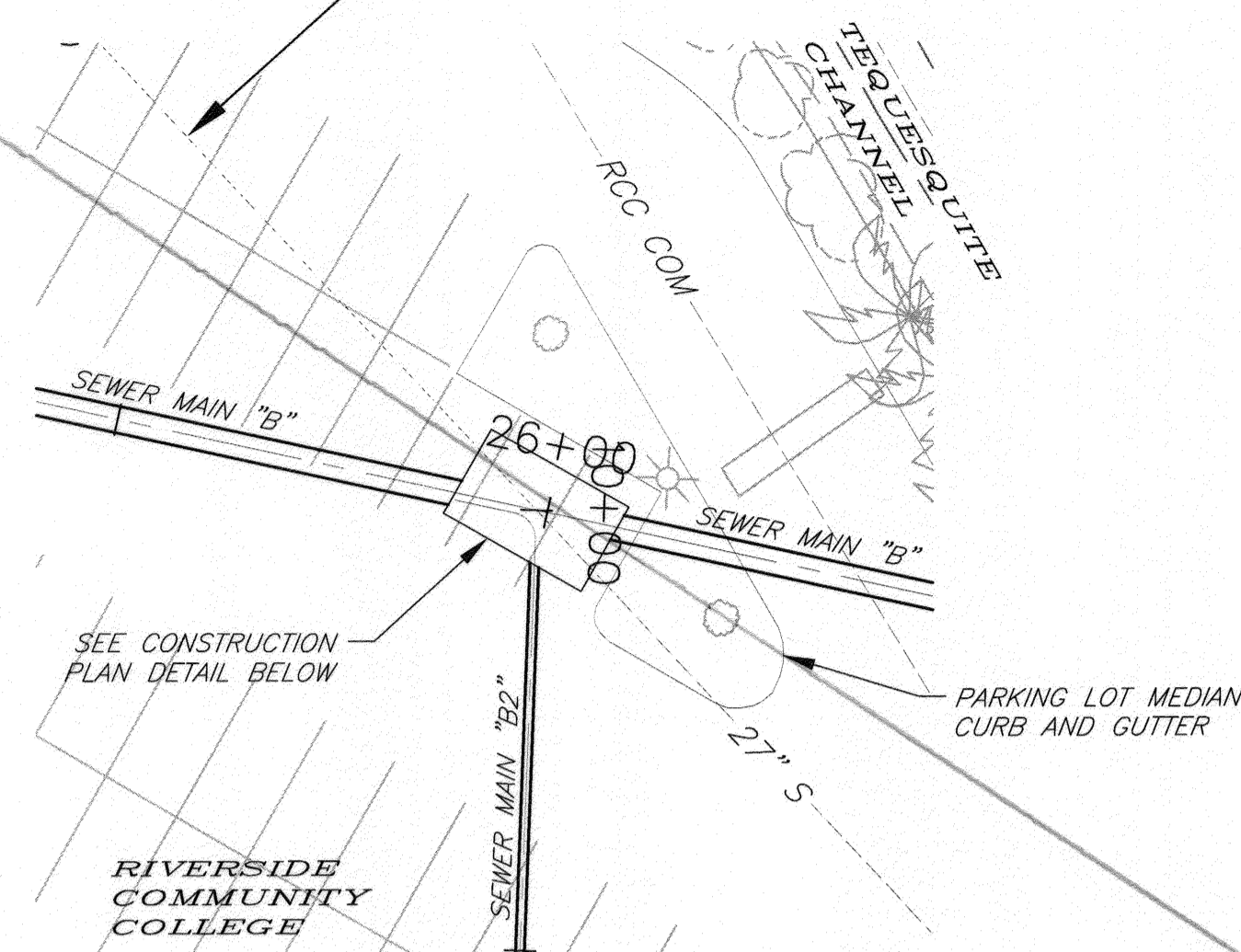
DESIGNED BY	DRAWN BY	CDRAKE	CHECKED BY
APPROVED BY			
PRINCIPAL ENGINEER			
INSPECTOR			
SURVEYOR			
ENGINEERING MANAGER			

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature] DATE: 12/12/2009
CITY ENGINEER

TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS CONSTRUCTION DETAILS
JUNCTION BOX #1 (SEWER MH #1)

ACC. No. _____ W.O. _____
S-2074
SHEET 16A OF 29

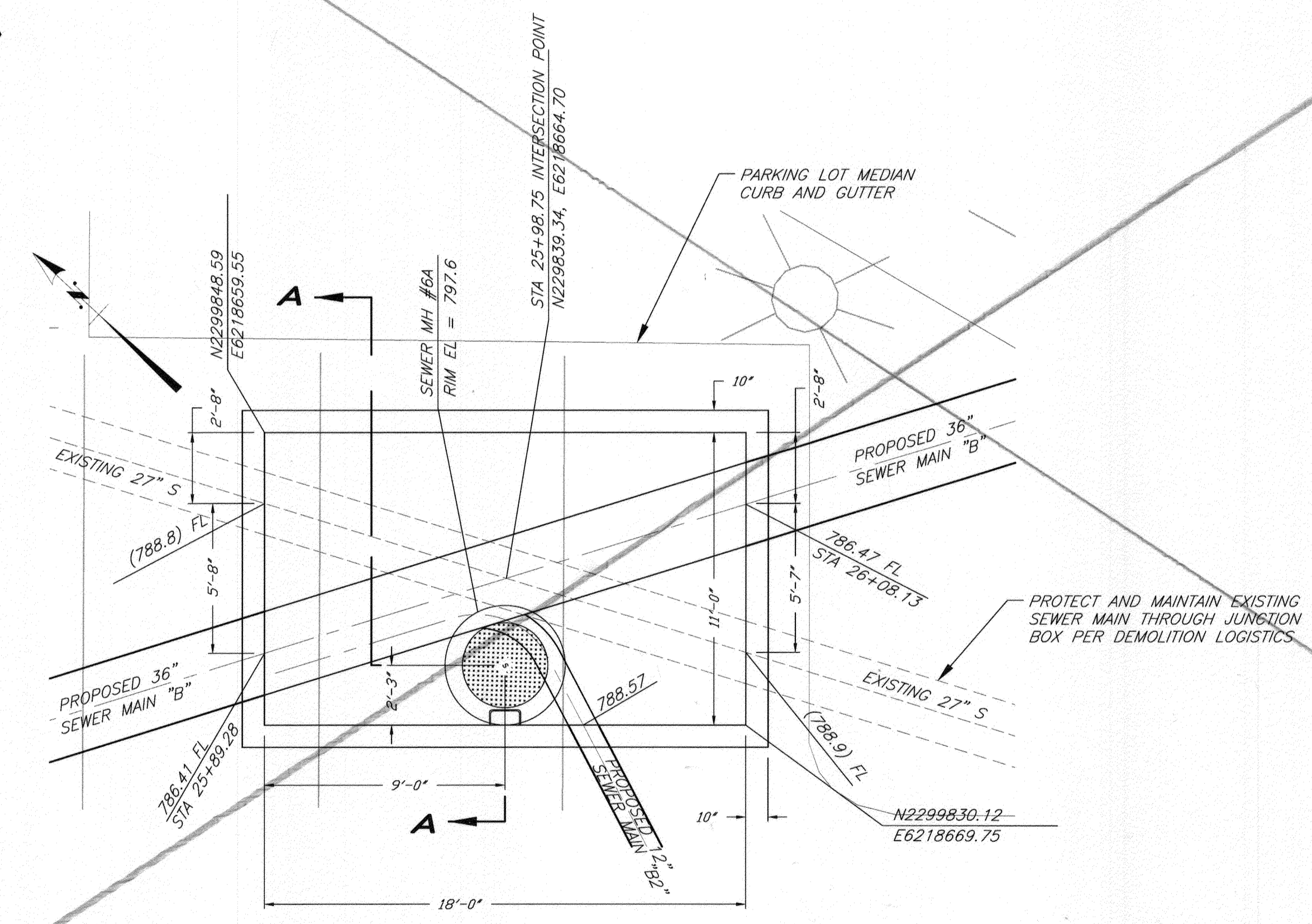
EXISTING 27" SEWER MAIN
TO BE ABANDONED, SEE
DEMOLITION PLANS FOR DETAILS



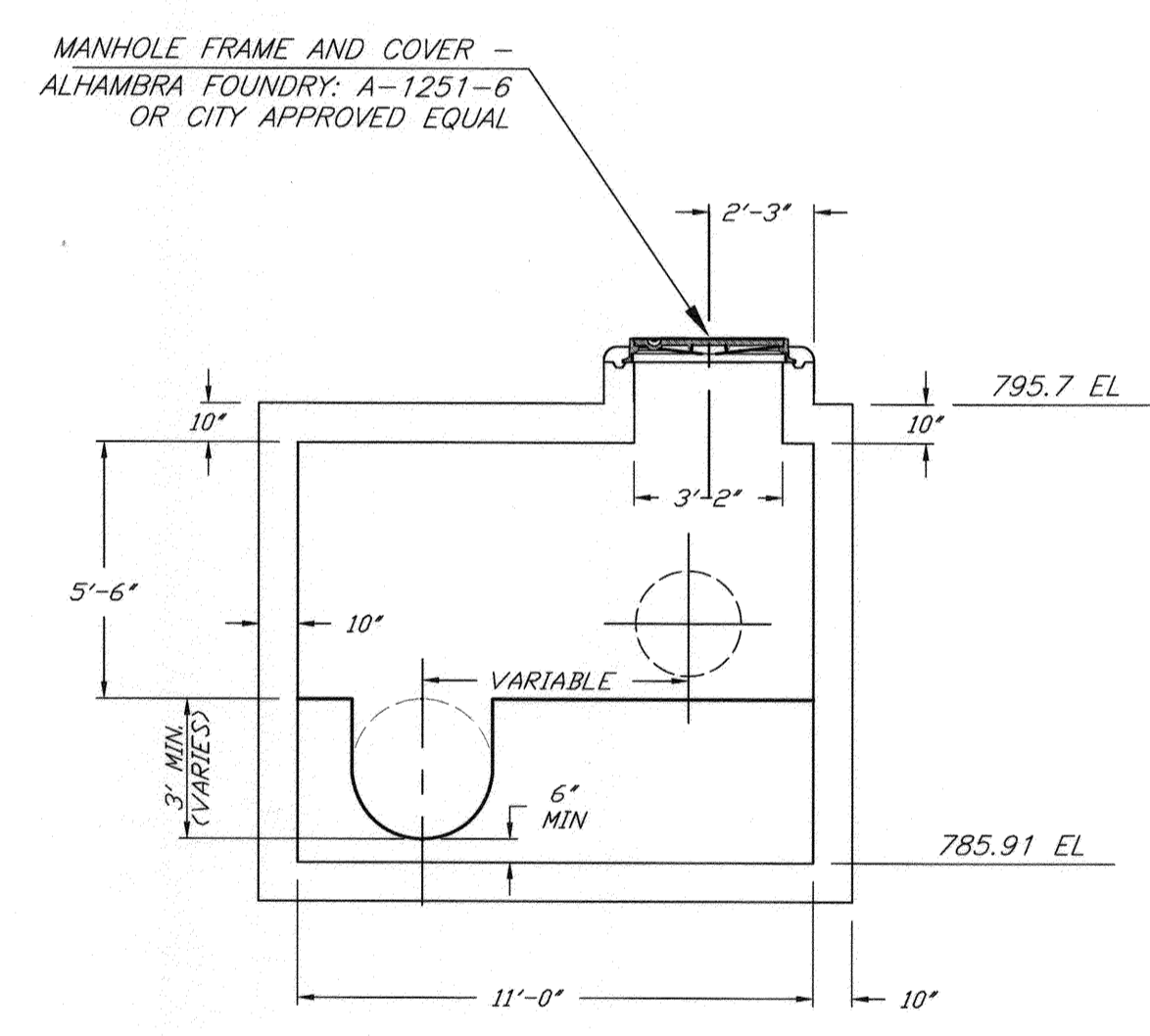
**JUNCTION BOX #2
(SEWER MH #6A AND #6B)
JUNCTION BOX DETAIL**
SCALE: 1" = 20'

SPECIFIC CONSTRUCTION NOTES

- CONTRACTOR TO FIELD VERIFY ELEVATION OF EXISTING SEWER MAINS. ENGINEER TO BE NOTIFIED OF ANY VARIANCE FROM NOTED ELEVATIONS.



**JUNCTION BOX #2
(SEWER MH #6A AND #6B)
CONSTRUCTION PLAN**
NTS



NOTE: CONSTRUCT SHELF AND CHANNELIZED
BASE PER STD. DWG. 500

**JUNCTION BOX #2
(SEWER MH #6A AND #6B)
SECTION A-A**
NTS

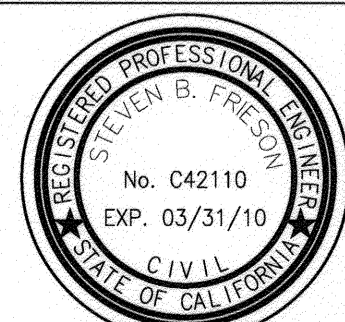
FOR DETAIL NOT SHOWN
SEE STD. DWG. 431

BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD
MONUMENT WELL STAMPED "15-A" ON THE
CENTERLINE OF TEQUESQUITE 506.74 FEET
SOUTHWESTERLY OF THE P.I. AT THE LANDFILL
ENTRANCE
ELEV - 753.831

IMPORTANT NOTICE
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For your Dig Alert ID, Number call
CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2600

Be
BIRGE ENGINEERING, INC.
600 N. MOUNTAIN AVENUE, SUITE B204
UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN
RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 12/16/2009



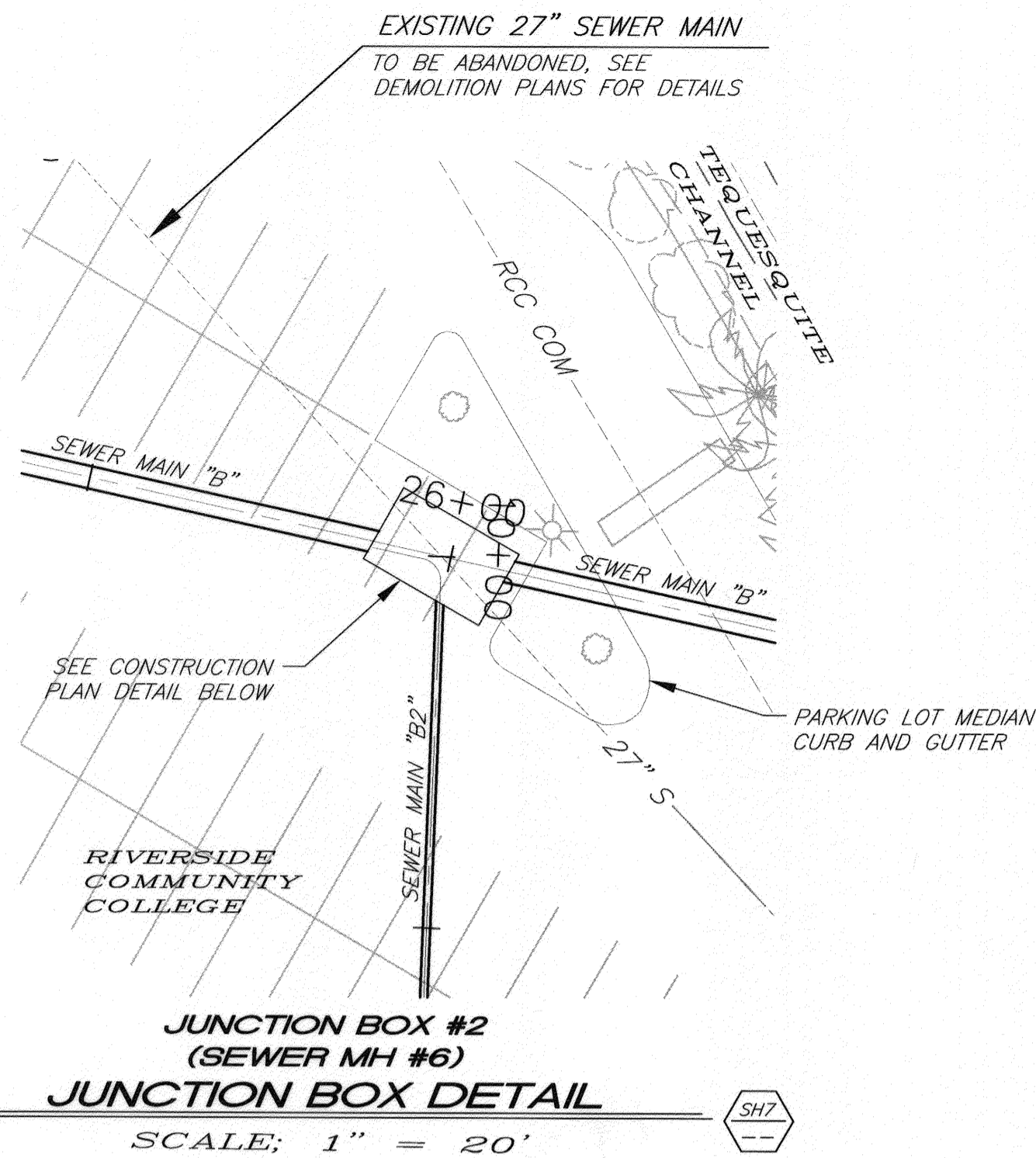
DESIGNED BY SBE DRAWN BY CDRAKE CHECKED BY SFC

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	[Signature]	12/16/09	[Signature]
INSPECTOR	[Signature]	12/16/09	CITY ENGINEER
SURVEYOR	[Signature]	12/16/09	
ENGINEERING MANAGER	[Signature]	12/16/09	
DATE		12/16/09	

TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
CONSTRUCTION DETAILS
JUNCTION BOX #2 (SEWER MH #6A AND #6B)
SCALE: AS SHOWN

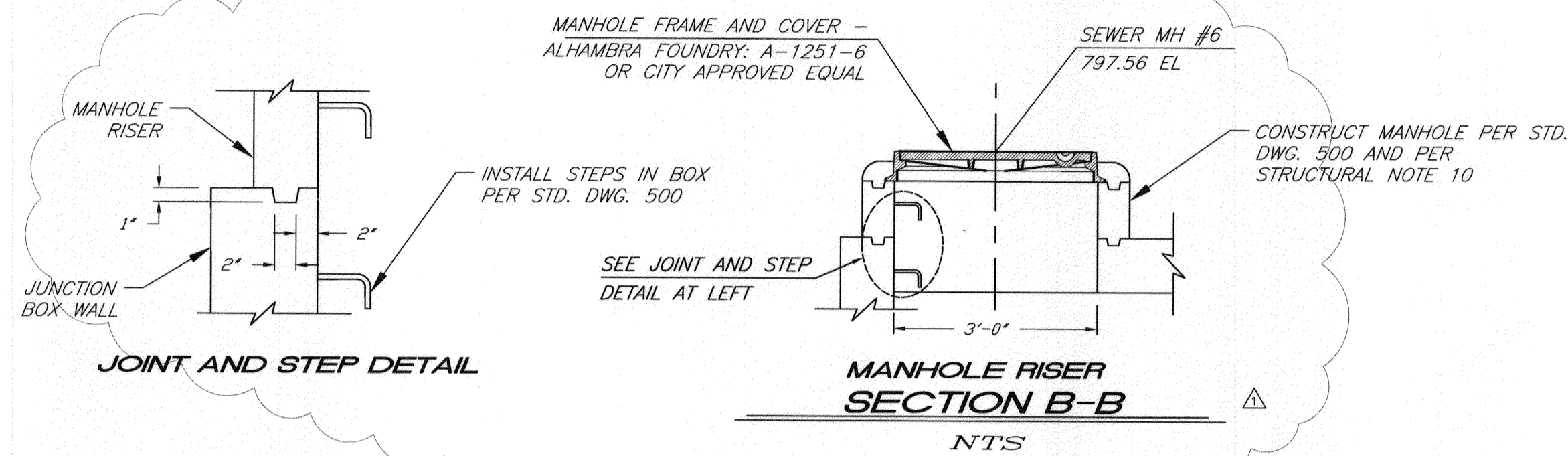
ACC. No. _____ W.D. _____
S-2074
SHEET 17 OF 28

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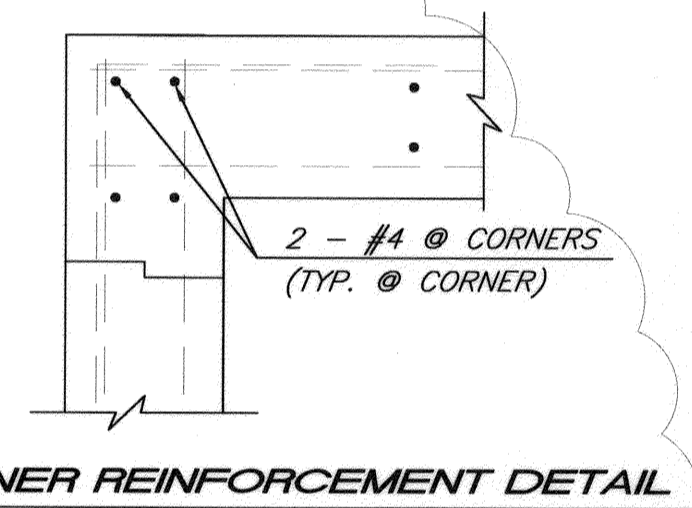
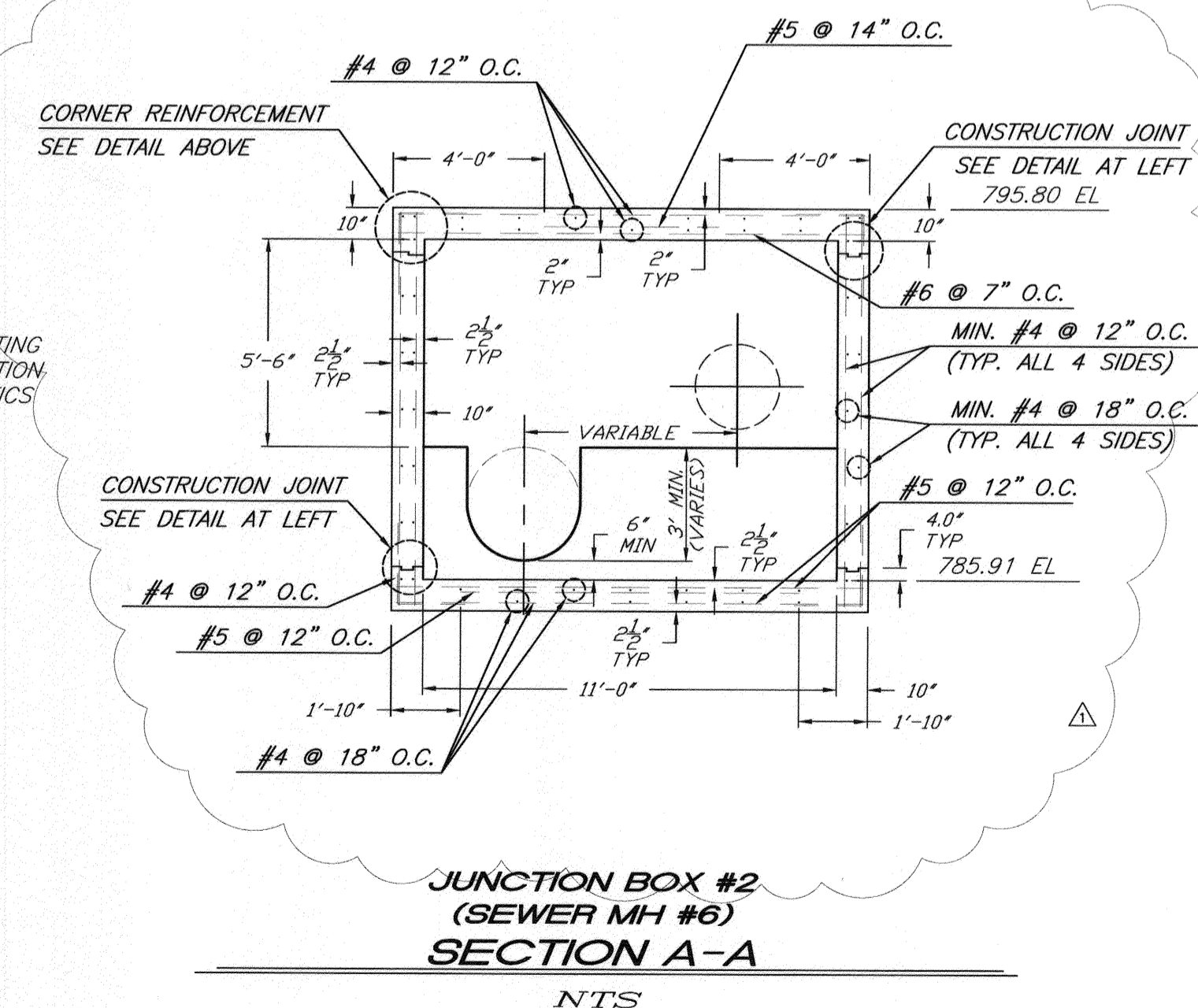
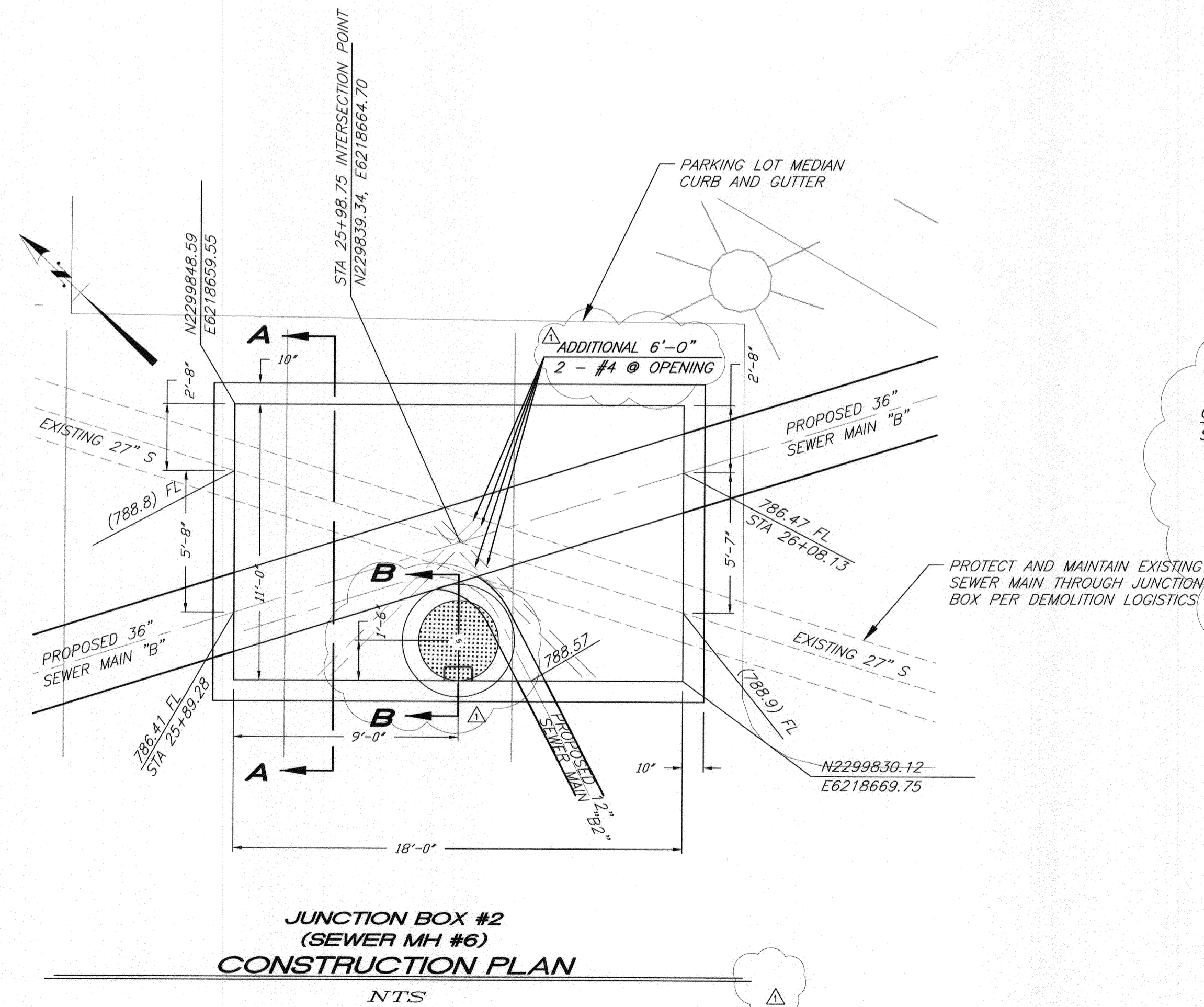
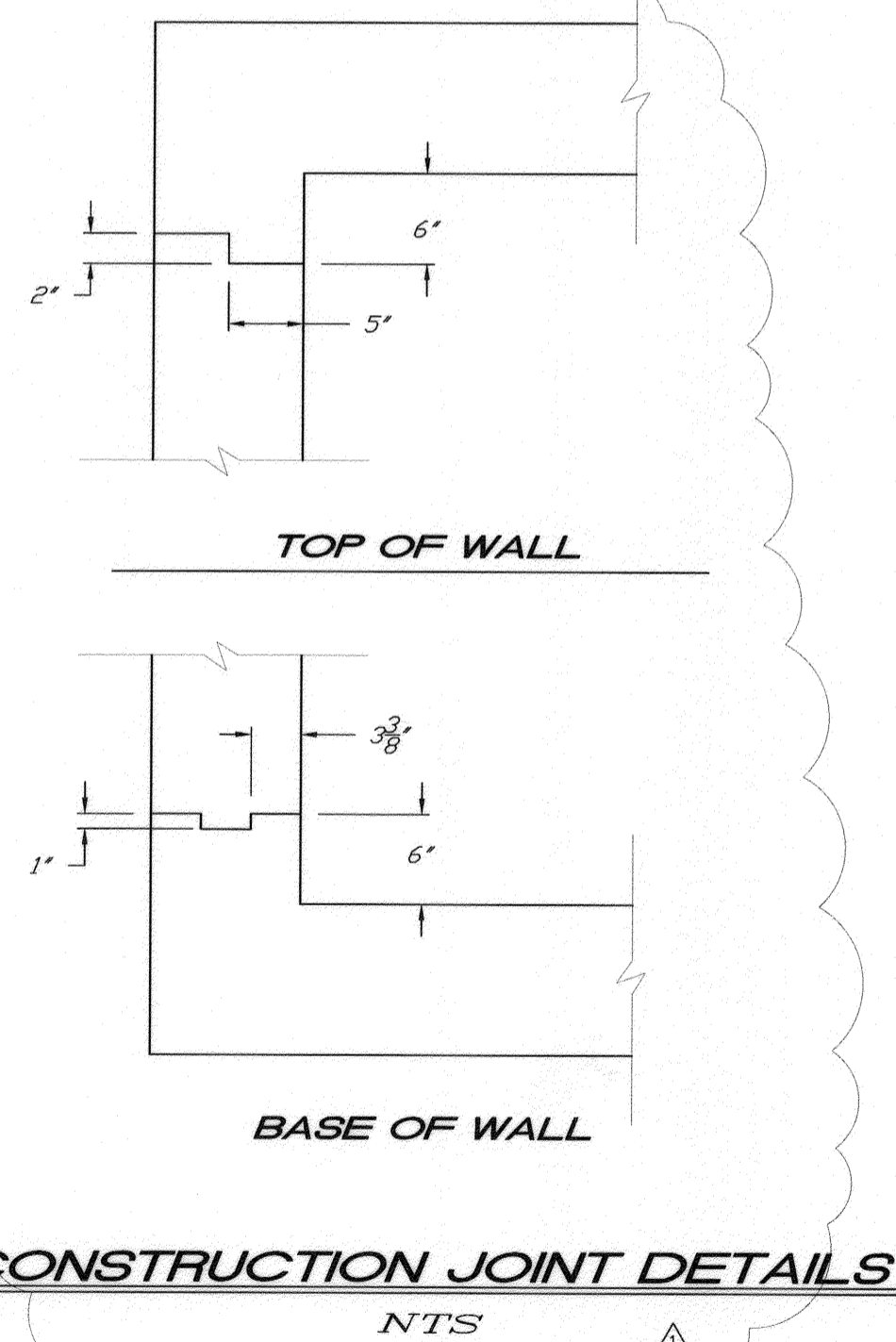
STRUCTURAL NOTES

- LIVE LOAD**
HS20-44 UNLESS OTHERWISE SHOWN
- DEAD LOAD**
EARTH LOAD: = 35 pcf
INTEGRAL WATER PRESSURE: 62.4 psf PER FEET OF DEPTH
WEIGHT OF CONCRETE: 150 pcf
- ALL DESIGN STRESSES**
f_c = 4,000 psi OR 28 DAYS
f_{c'} = 1,800 psi
f_y = 60,000 psi
f_s = 24,000 psi
n = 8
SHEAR STRESSES PER LATEST A.C.I. BUILDING CODE



STRUCTURAL NOTES

- ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION.
- PLACING OF REINFORCEMENT SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION.
- TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE PLACED WITHIN 10 INCHES OF MANHOLE OR JUNCTION STRUCTURE OPENINGS.
- TRANSVERSE CONSTRUCTION JOINTS IN WALLS AND SLABS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED. TRANSVERSE CONSTRUCTION JOINTS SHALL BE NORMAL OR RADIAL TO THE CENTERLINE OF CONSTRUCTION.
- THE TRANSVERSE REINFORCING STEEL SHALL TERMINATE ONE AND ONE-HALF INCHES FROM THE CONCRETE SURFACES UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DETAILS.
- NO SPLICES IN TRANSVERSE STEEL REINFORCEMENT WILL BE PERMITTED OTHER THAN SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER. NO MORE THAN TWO SPLICES WILL BE PERMITTED IN ANY LONGITUDINAL BAR BETWEEN TRANSVERSE JOINTS. SPLICES SHALL BE STAGGERED.
- LONGITUDINAL STEEL SHALL BE LAPPED 20 BAR DIAMETERS AT SPLICES. TRANSVERSE STEEL SHALL BE LAPPED 10 BAR DIAMETERS AT SPLICES.
- LONGITUDINAL STEEL SHALL BE CONTINUOUS AND EXTEND THROUGH ALL CONSTRUCTION JOINTS.
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, TRANSVERSE CONSTRUCTION JOINTS IN BOTH SLABS AND WALLS SHALL BE PLACED AT THE END OF EACH POUR, BUT THE SPACING THEREOF SHALL NOT EXCEED 50 FEET OR BE LESS THAN 10 FEET.
- NOTE 5 FROM CITY OF RIVERSIDE STD. DWG. 500 SHALL BE REPLACED AS FOLLOWS; "THE LOWER PORTION OF THE MANHOLE SHALL BE CONSTRUCTED AS DESIGNATED ON THIS SHEET. THE FRAME AND COVER SHALL BE SIZED AND SPECIFIED PER THE DETAILS ON THIS SHEET. A 1' MINIMUM SHELF SHALL BE MAINTAINED." ALL OTHER NOTES ON STD. DWG. 500 APPLY AS SPECIFIED ON THAT DRAWING.

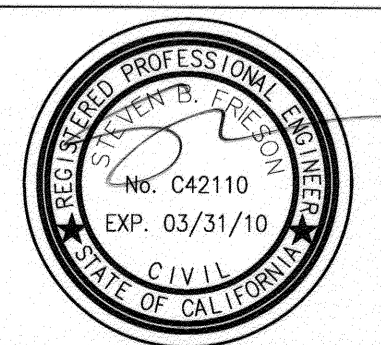


BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
ELEV - 753.831

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 I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

BIRGE ENGINEERING, INC.
600 N. MOUNTAIN AVENUE, SUITE B204
UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 1/4/2010



NO.	DESCRIPTION	DATE
1	UPDATED CONSTRUCTION/REINFORCEMENT/NOTES AND DETAILS	1/4/2010

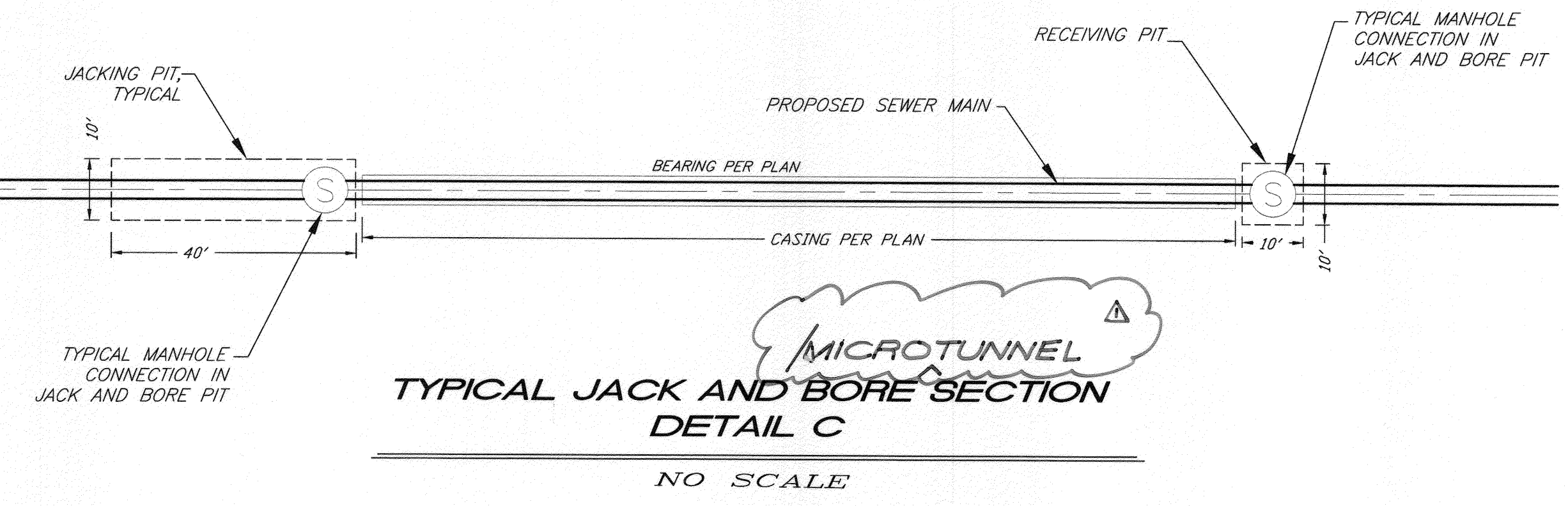
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature] DATE: 12/12/2009
INSPECTOR: [Signature]
SURVEYOR: [Signature]
ENGINEERING MANAGER: [Signature]

TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
CONSTRUCTION DETAILS
JUNCTION BOX #2 (SEWER MH #6)

ACC. No. _____ W.D. _____
S-2074
SHEET 17A OF 29

MICROTUNNEL
JACK AND BORE LOCATIONS

STATIONING: MANHOLE TO MANHOLE	PLAN SHEET NO.	MICRO-TUNNEL	JACK & BORE w/ CASING
STA 14+73.18 TO STA 18+45.32	SHEET 6 AND 7	X	
STA 18+45.32 TO STA 22+30.77	SHEET 7	X	
STA 22+30.77 TO STA 24+89.70	SHEET 7	X	
STA 25+98.75 TO STA 27+23.95	SHEET 7 AND 8	X	
STA 27+75.34 TO STA 33+59.24	SHEET 8	X	
STA 56+00.49 TO STA 57+82.85	SHEET 11		X
STA 10+79.94 TO STA 11+60.00	SHEET 15	X	

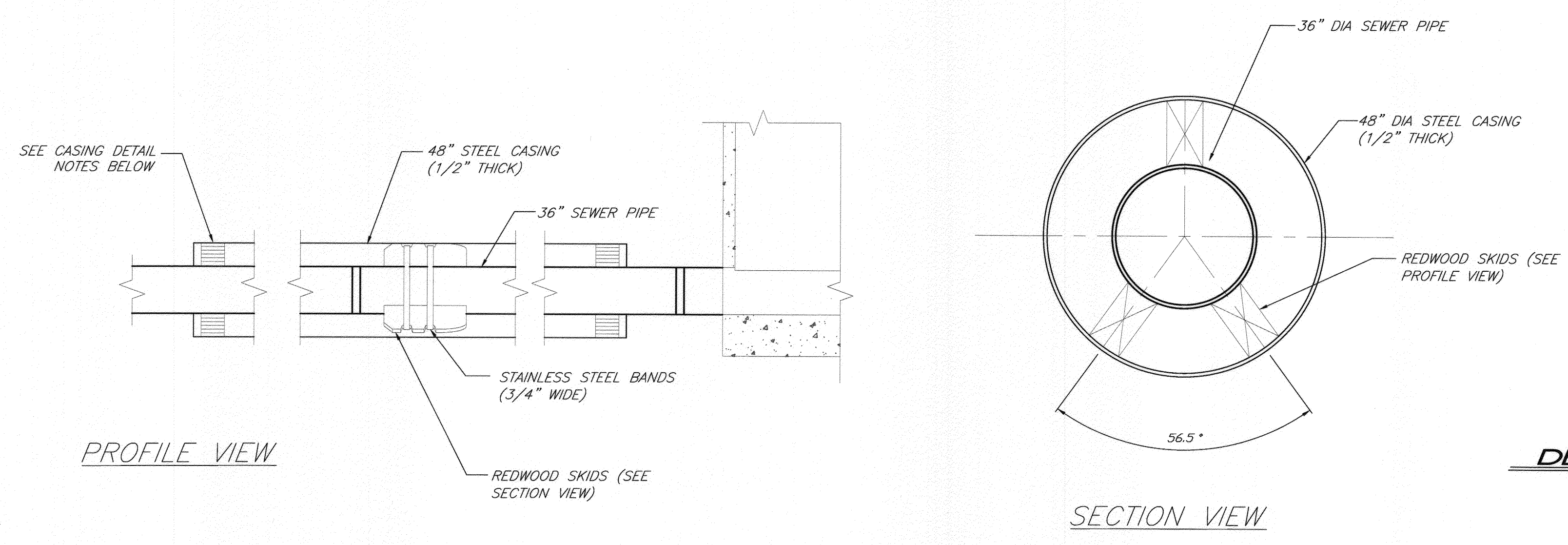


GENERAL NOTES

- JACKING AND RECEIVING SHAFTS SHALL BE OF THE MINIMUM SIZE POSSIBLE COMMENSURATE WITH SAFE WORKING PRACTICES AND LOCATED AS SHOWN ON PLANS.
- FOR PIPES WITH DIAMETERS OF 18" OR GREATER THE MAXIMUM DRIVING SHAFT SHALL BE FOURTEEN AND A HALF FOOT (14.5') OR LESS. OTHER DIAMETER JACKING AND RECEIVING SHAFTS MAY BE USED UPON APPROVAL FROM ENGINEER.

CASING DETAIL NOTES

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



DETAIL B - CASING
NO SCALE

BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
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Be **BIRGE ENGINEERING, INC.**
600 N. MOUNTAIN AVENUE, SUITE B204
UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 12/11/2009

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]
DATE: 12/11/09

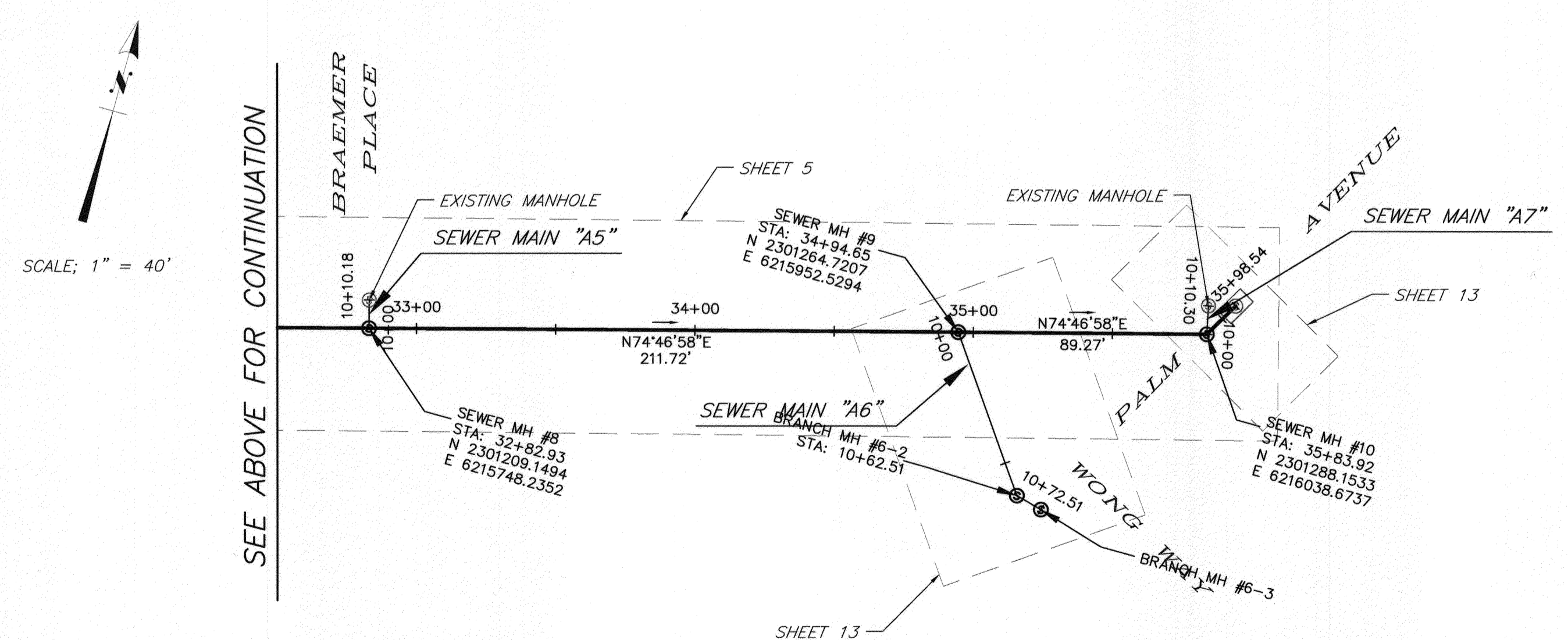
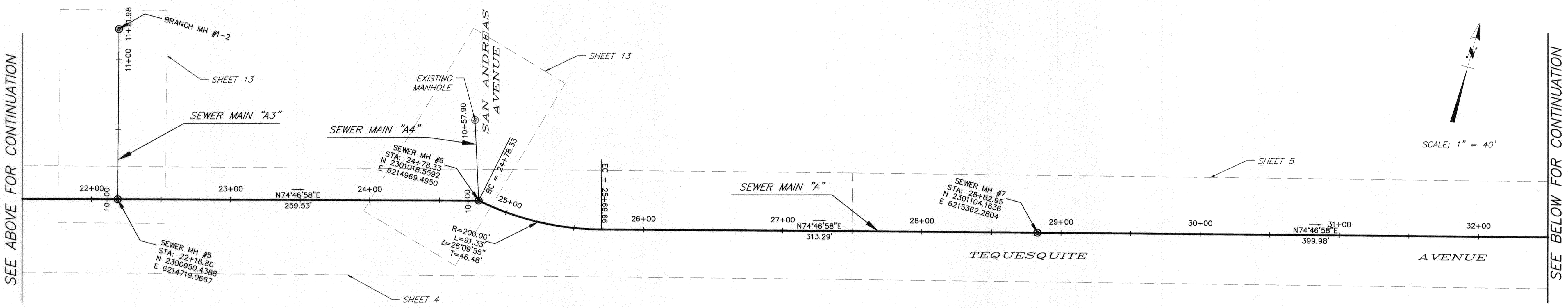
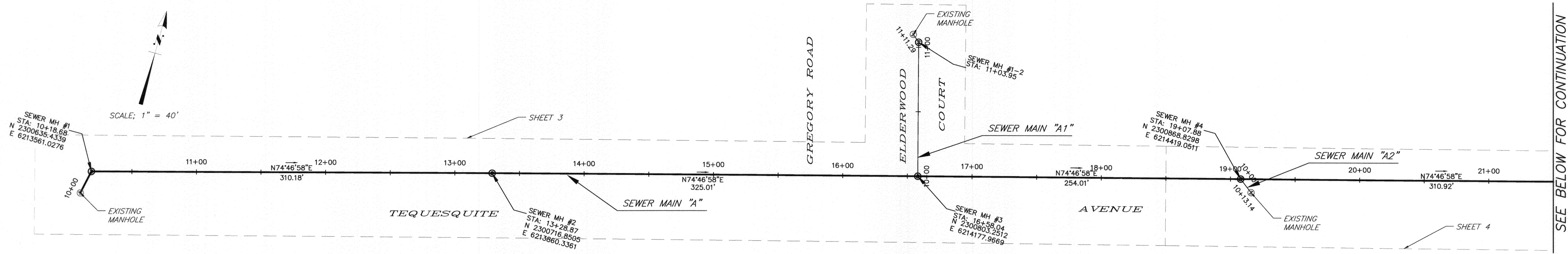
DESIGNED BY: SBF DRAWN BY: CDRAKE CHECKED BY: JDE

TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
JACK AND BORE DETAILS
MICROTUNNEL DETAILS

ACC. No. _____
W.O. _____
S-2074
SCALE: AS SHOWN
SHEET 18 OF 29

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GENERAL NOTES

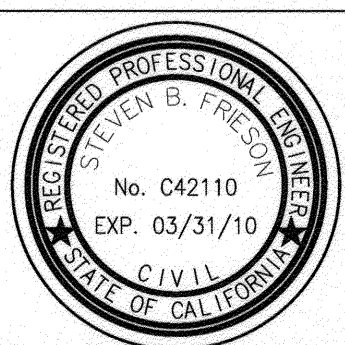
- 1 SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL CONSTRUCTION DETAILS.

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
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ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/11/09



MARK	REVISIONS	APPR.	DATE

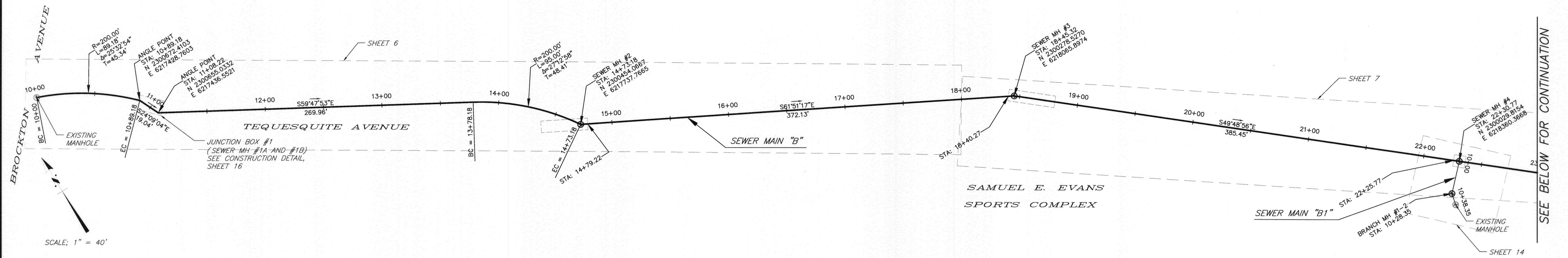
CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY	DATE
PRINCIPAL ENGINEER	[Signature]	12/11/09	CITY ENGINEER	[Signature]
INSPECTOR	[Signature]	12/11/09		
SURVEYOR	[Signature]	12/11/09		
ENGINEERING MANAGER	[Signature]	12/11/09		

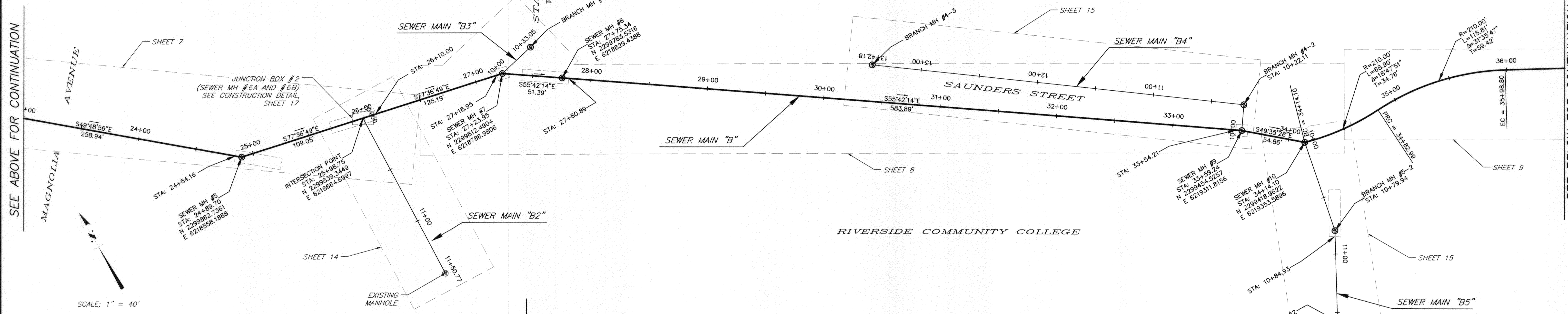
TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 TEQUESQUITE AVENUE
 PROPOSED SEWER MAIN "A" CENTER LINE ALIGNMENT

SCALE: AS SHOWN

ACC. No. _____
 W.O. _____
 S-2074
 SHEET 19 OF 29

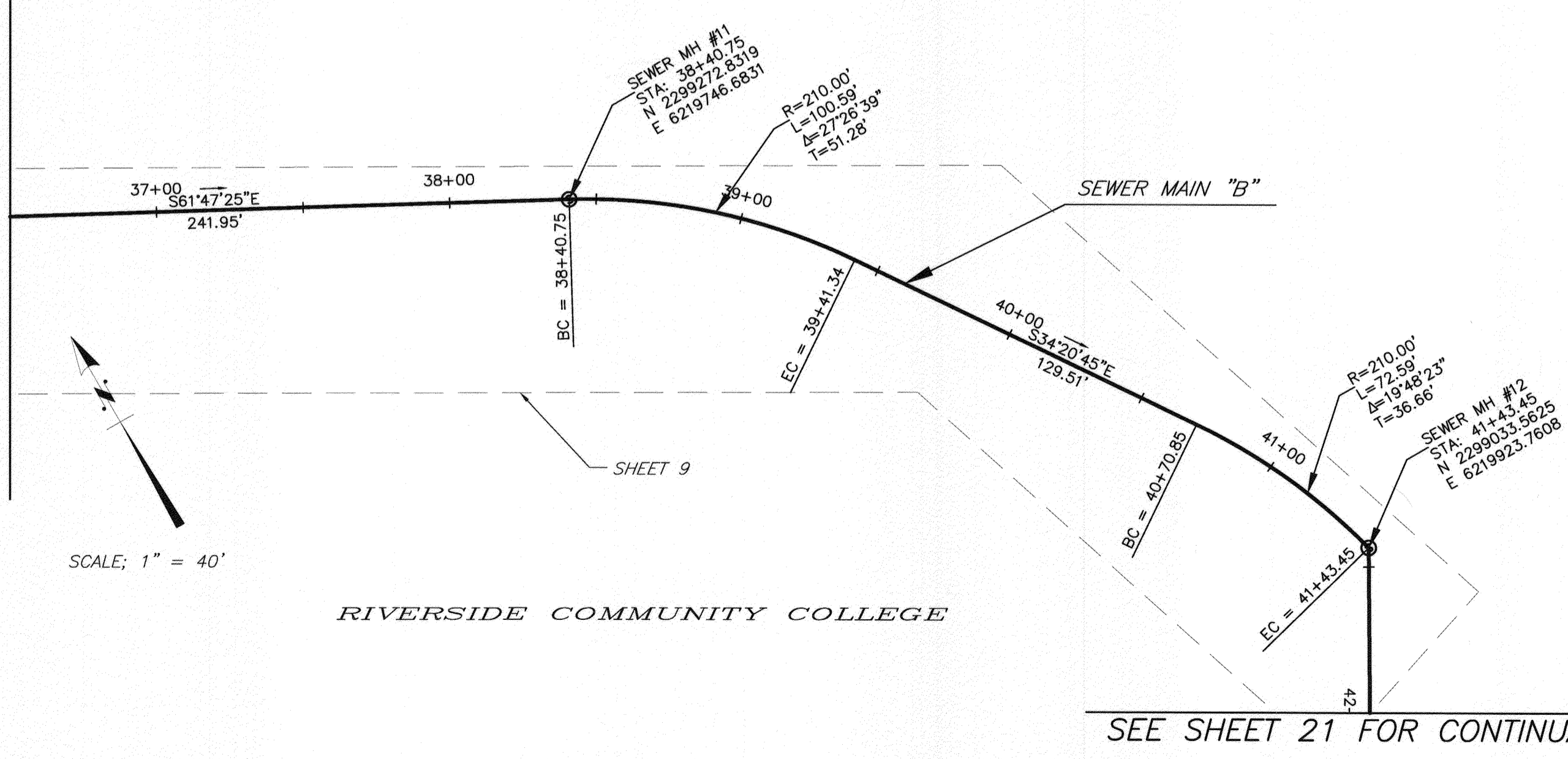


SCALE: 1" = 40'



SCALE: 1" = 40'

SEE ABOVE FOR CONTINUATION



SCALE: 1" = 40'

SEE SHEET 21 FOR CONTINUATION

GENERAL NOTES

- 1 SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL CONSTRUCTION DETAILS.

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
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 UPLAND, CA 91786
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ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 2/11/2009



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	APPROVED BY	DATE
PRINCIPAL ENGINEER		CITY ENGINEER	
INSPECTOR			
SURVEYOR			
ENGINEERING MANAGER			

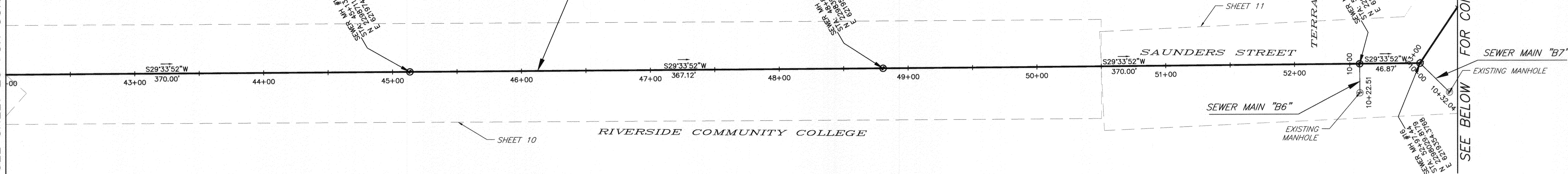
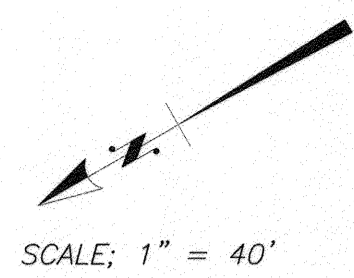
TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS
 TEQUESQUITE AVENUE
 PROPOSED SEWER MAIN "B" CENTER LINE ALIGNMENT

SCALE: AS SHOWN

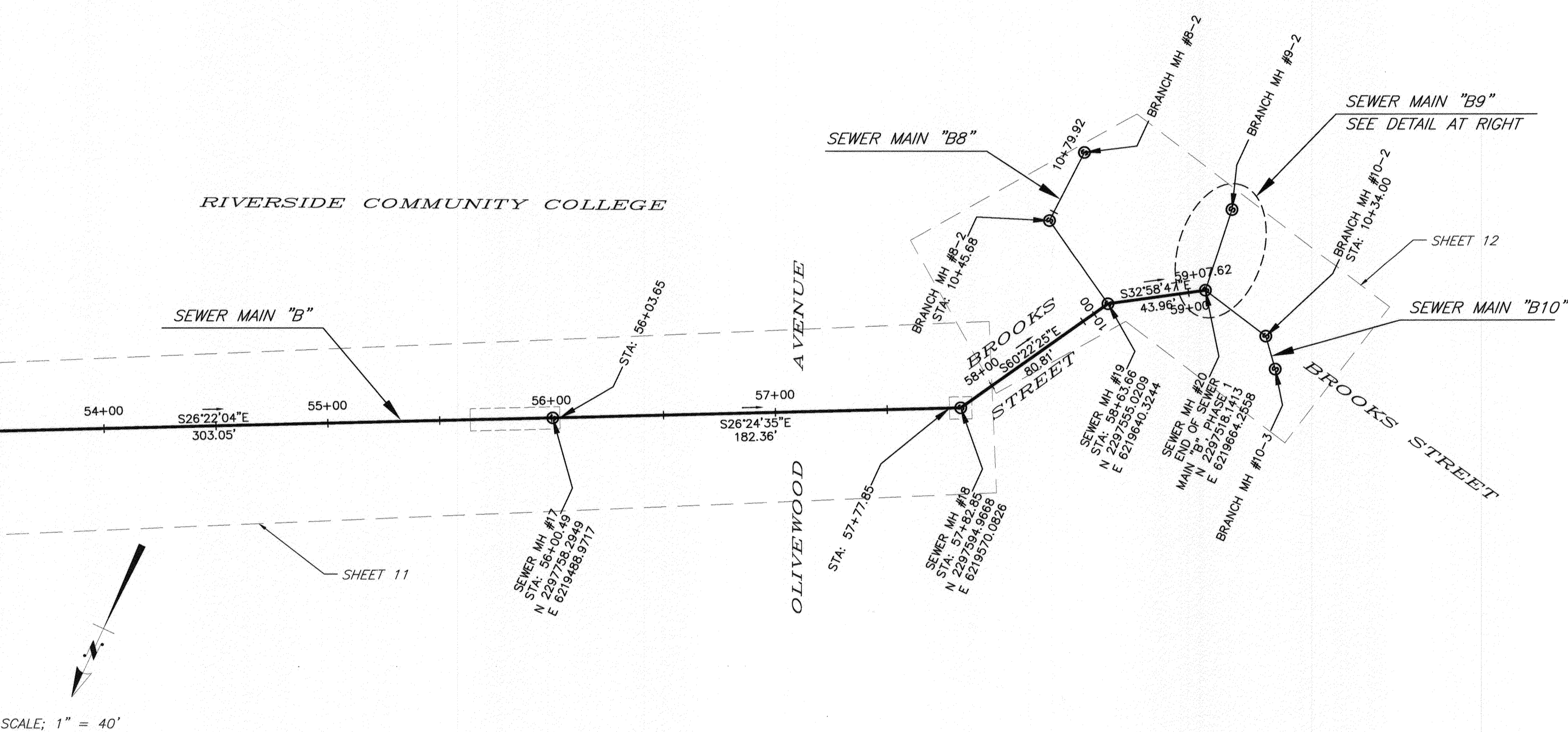
ACC. No. _____ W.D. _____
 S-2074
 SHEET 20 OF 29

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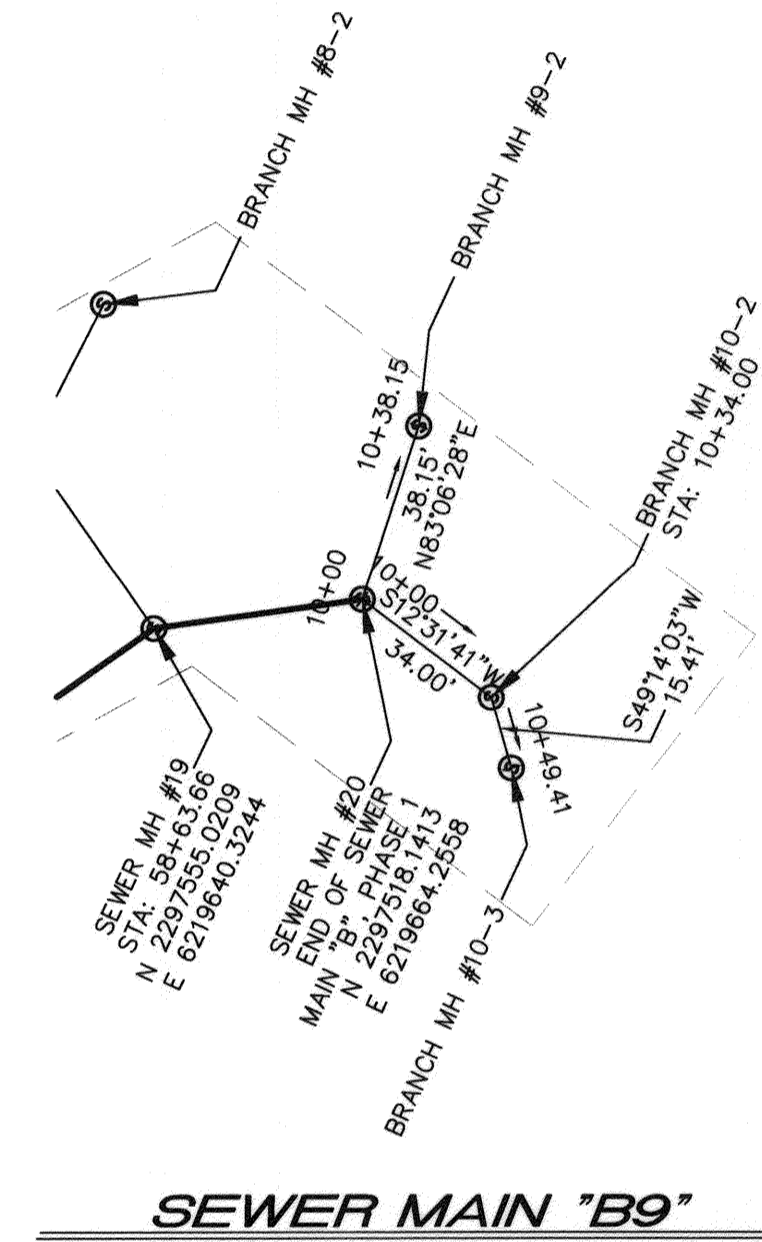
SEE SHEET 20 FOR CONTINUATION



SEE ABOVE FOR CONTINUATION



SCALE: 1" = 40'



GENERAL NOTES

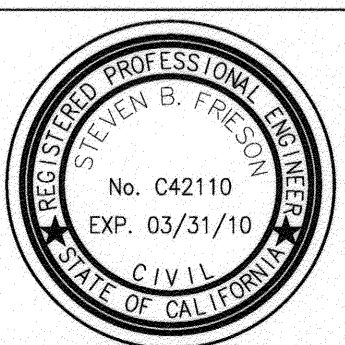
- 1 SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL CONSTRUCTION DETAILS.

BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
ELEV - 753.831

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TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 12/11/2009



MARK	REVISIONS	APPR	DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	[Signature]		[Signature]
INSPECTOR	[Signature]		CITY ENGINEER
SURVEYOR	[Signature]		
ENGINEERING MANAGER	[Signature]		

TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
TEQUESQUITE AVENUE
PROPOSED SEWER MAIN "B" CENTER LINE ALIGNMENT

SCALE: AS SHOWN

ACC. No. _____
W.D. _____
S-2074
SHEET 21 OF 29

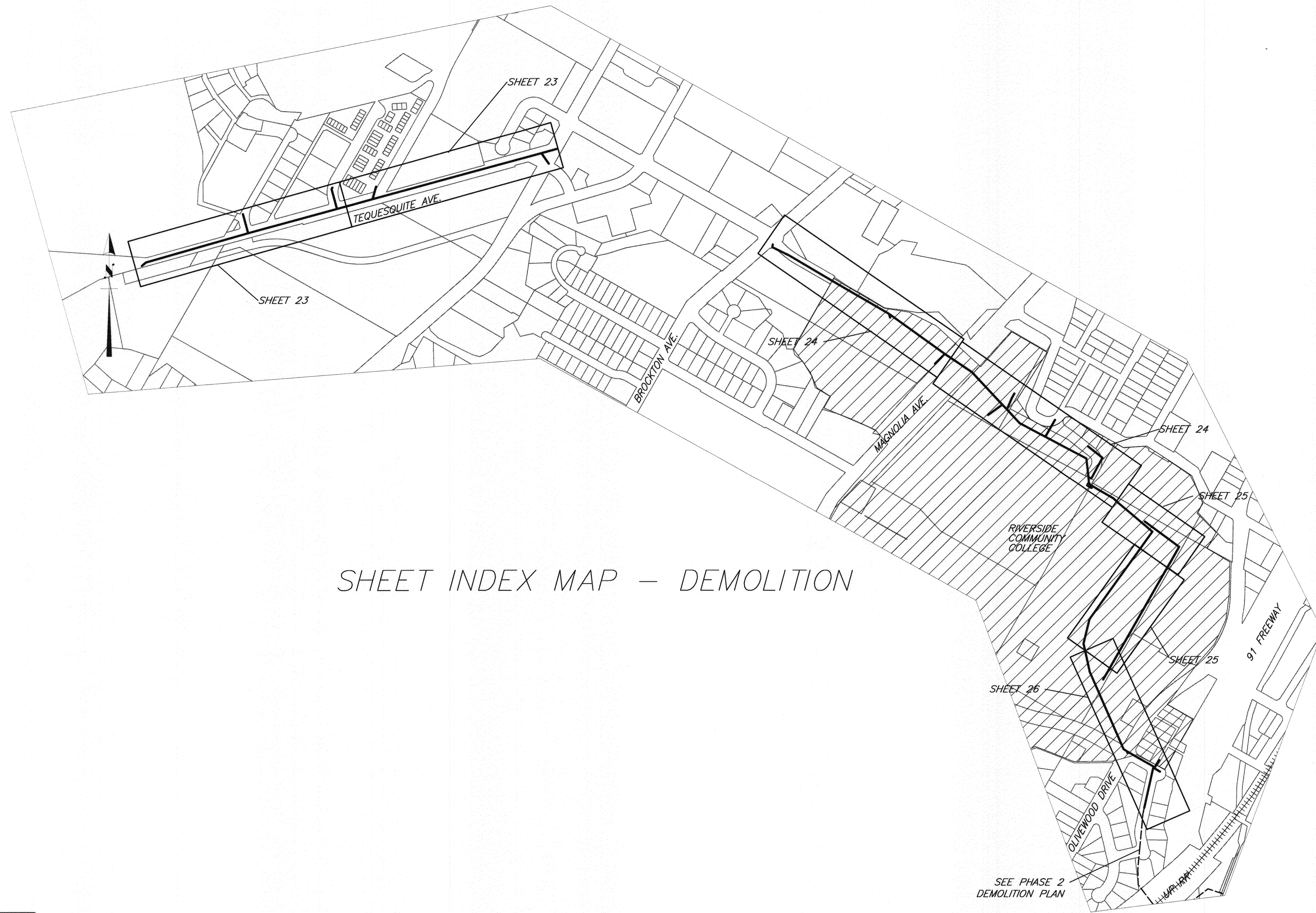
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DEMOLITION SHEET INDEX

SHT. NO.	SHT. TITLE
22	DEMOLITION PLAN - SHEET INDEX MAP
23	EXISTING SEWER DEMOLITION - TEQUESQUITE ARROYO
24	EXISTING SEWER DEMOLITION - RCC AND SAUNDERS STREET
25	EXISTING SEWER DEMOLITION - RCC AND SAUNDERS STREET
26	EXISTING SEWER DEMOLITION - RCC AND BROOKS STREET

GENERAL DEMOLITION NOTES

- 1 DEMOLITION SHALL NOT PROCEED UNTIL NEW SEWER MAIN AND MANHOLES HAVE BEEN APPROVED AND ACCEPTED BY THE CITY ENGINEER.
- 2 CONTRACTOR SHALL VERIFY EACH MANHOLE AND MAIN IDENTIFIED FOR MODIFICATION, DESTRUCTION OR ABANDONMENT PRIOR TO BEGINNING DEMOLITION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY VARIATION IN PLACEMENT / PLAN OR FLOW DIRECTION (INCLUDING BUT NOT LIMITED TO ADDITIONAL INLETS OR OUTLETS) OF MANHOLES AND MAINS (INCLUDING BUT NOT LIMITED TO PURPORTED ABANDONED MAINS THAT APPEAR TO BE INADEQUATELY OR IMPROPERLY ABANDONED).
- 3 ABANDONMENT OF DESIGNATED MANHOLES SHALL BE ACCOMPLISHED PER THE DEMOLITION SPECIFICATION AND UNDER THE APPROVAL OF THE CITY ENGINEER.
- 4 ABANDONMENT OF DESIGNATED SEWER PIPES SHALL BE ACCOMPLISHED BY FILLING THE PIPES WITH SAND PER THE DEMOLITION SPECIFICATION AND UNDER THE APPROVAL OF THE CITY ENGINEER.
- 5 CONTRACTOR SHALL PROTECT OR REPAIR ANY LANDSCAPING, FENCING, OR OTHER HARDSCAPE DAMAGED AS A RESULT OF DEMOLITION ACTIVITIES.



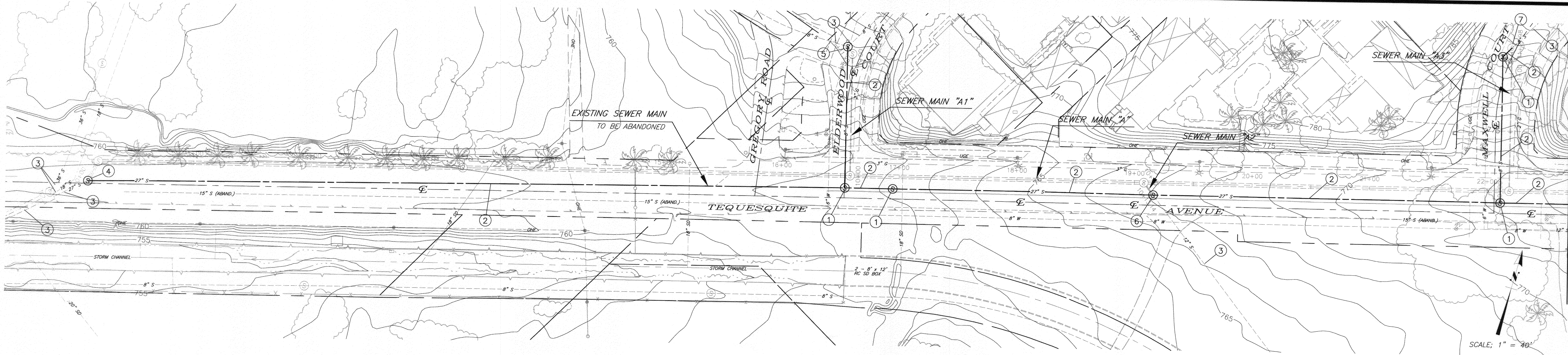
SHEET INDEX MAP - DEMOLITION

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 508.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831

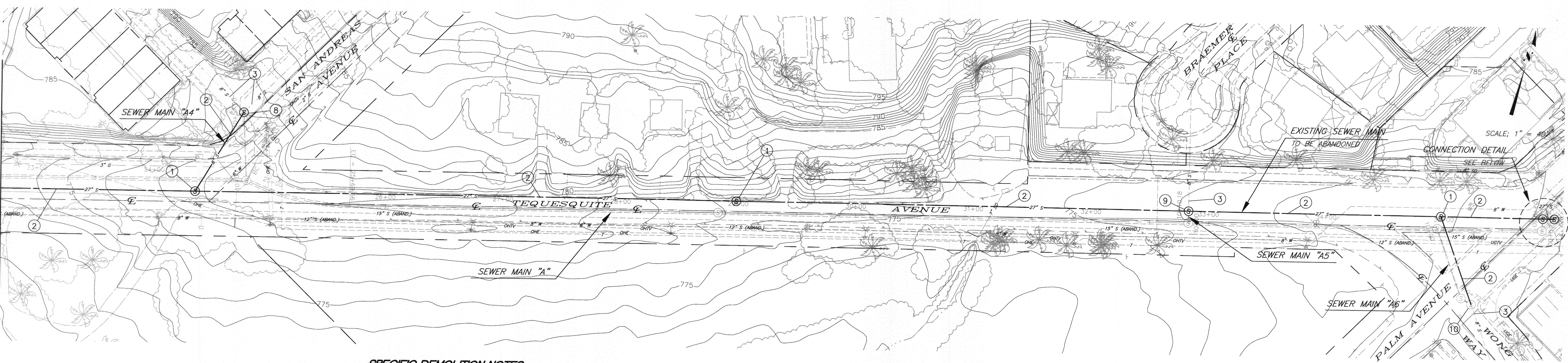
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48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT
1-800-227-2600

	BIRGE ENGINEERING, INC. 600 N. MOUNTAIN AVENUE, SUITE B204 UPLAND, CA 91786 TEL: (909) 579-0842 FAX: (909) 579-0804	ENGINEER IN RESPONSIBLE CHARGE STEVEN B. FRIESON R.C.E. No. C42110 expires 03/31/10 DATE <u>12/4/2009</u>		CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT APPROVED BY: _____ DATE: _____ PRINCIPAL ENGINEER: <u>AD</u> INSPECTOR: <u>AD</u> ENGINEERING MANAGER: <u>PA</u>	APPROVED BY: _____ DATE: _____ CITY ENGINEER: <u>Wolop</u>	TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS DEMOLITION PLAN SHEET INDEX MAP SCALE: AS SHOWN	ACC. No. _____ W.O. _____ S-2074 SHEET 22 OF 29
	DESIGNED BY: <u>SE</u> DRAWN BY: <u>CDRAKE</u> CHECKED BY: <u>SE</u>				REVISIONS: _____ APPR. DATE: _____		DATE: <u>12/4/2009</u>

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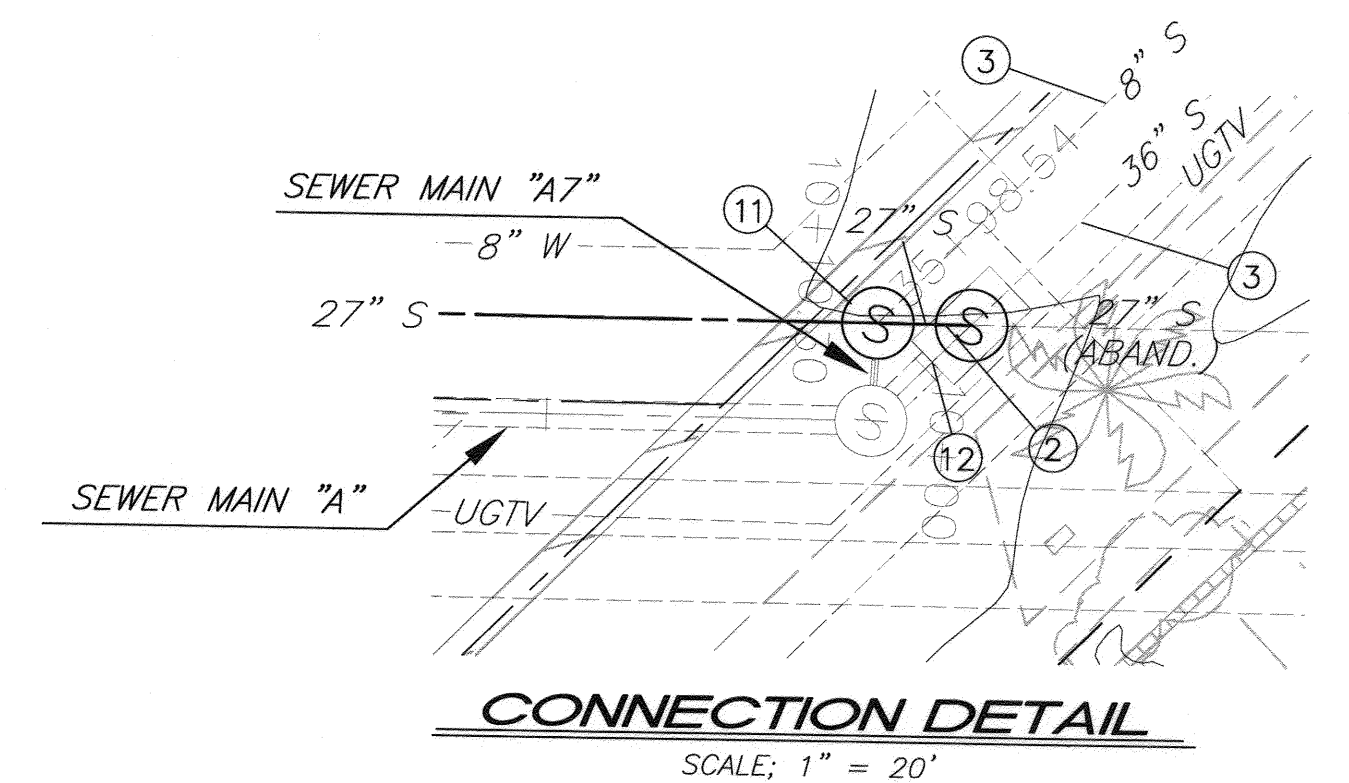
SEE BELOW FOR CONTINUATION



SEE ABOVE FOR CONTINUATION

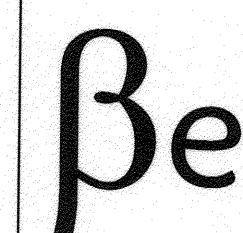
SPECIFIC DEMOLITION NOTES

- 1 ABANDON EXISTING SEWER MANHOLE PER DEMOLITION SPECIFICATIONS.
- 2 ABANDON EXISTING SEWER MAIN IN PLACE PER DEMOLITION SPECIFICATIONS.
- 3 EXISTING SEWER MAIN TO REMAIN IN SERVICE.
- 4 PLUG EXISTING 27" SEWER MAIN INLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", SHEET 3.
- 5 PLUG EXISTING 8" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", SHEET 3.
- 6 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", SHEET 4.
- 7 PLUG EXISTING 8" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", SHEET 13.
- 8 PLUG EXISTING 8" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", SHEET 13.
- 9 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", SHEET 5.
- 10 PLUG EXISTING 8" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "C", SHEET 13.
- 11 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "D", SHEET 13.
- 12 PLUG EXISTING 27" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", SHEET 5.



BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "75-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831

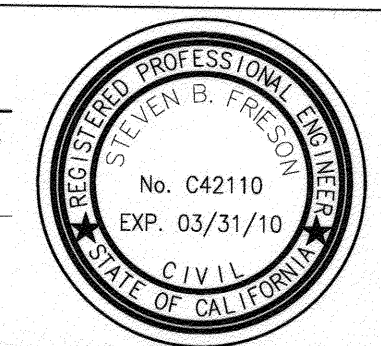
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ENGINEER IN RESPONSIBLE CHARGE

STEVEN B. FRIESON
 R.C.E. No. CA2110 expires 03/31/10
 DATE 12/4/2009



MARK	REVISIONS	APPR	DATE
DESIGNED BY	SE	DRAWN BY	CDRAKE
CHECKED BY	SE		

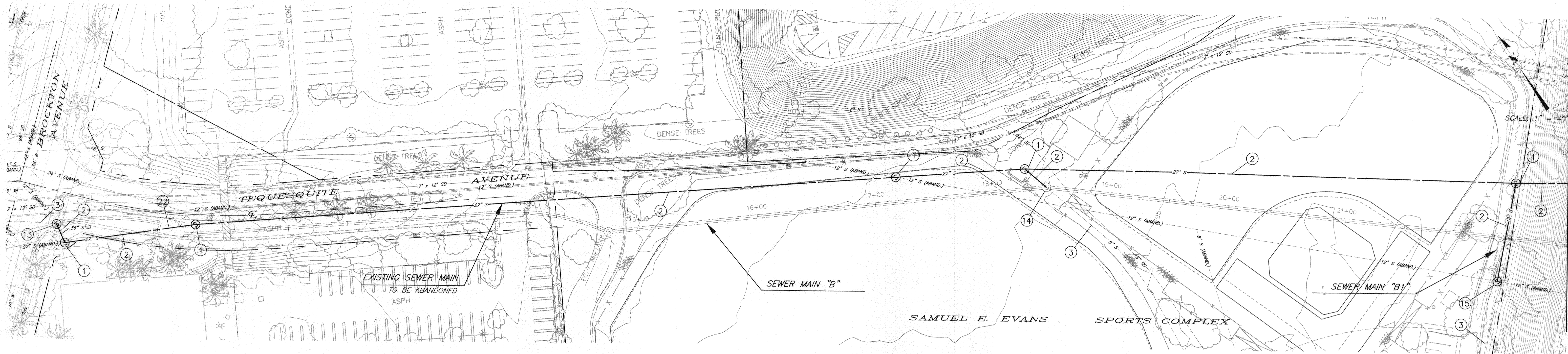
CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	APPROVED BY	DATE
PRINCIPAL ENGINEER		CITY ENGINEER	
INSPECTOR			
SURVEYOR			
ENGINEERING MANAGER			

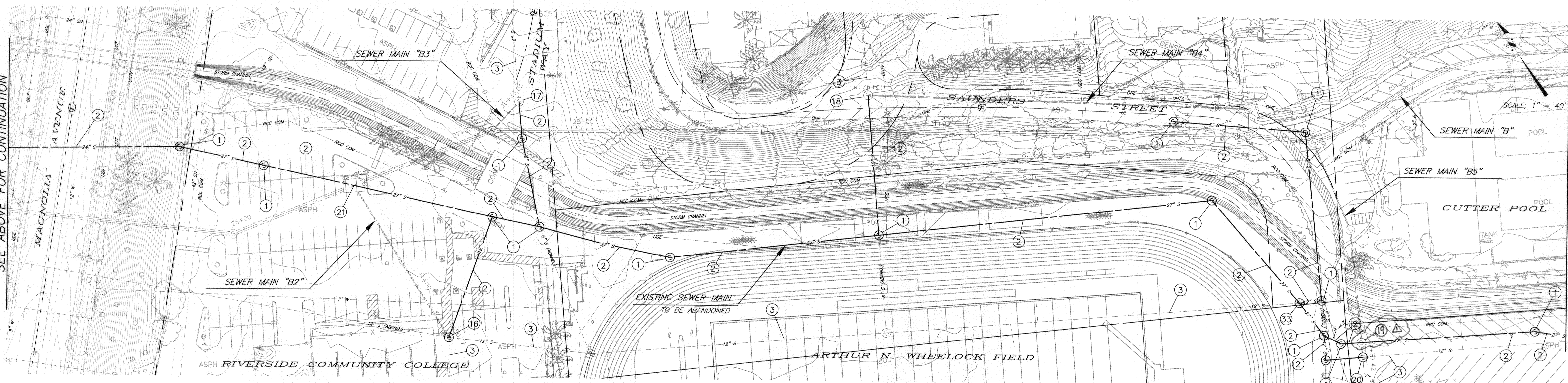
TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS
 TEQUESQUITE AVENUE
 EXISTING SEWER DEMOLITION

SCALE: AS SHOWN

ACC. No. _____ W.O. _____
 S-2074
 SHEET 23 OF 29



SEE BELOW FOR CONTINUATION



SEE ABOVE FOR CONTINUATION

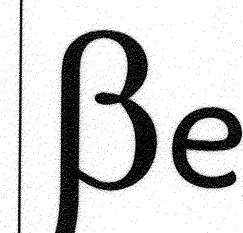
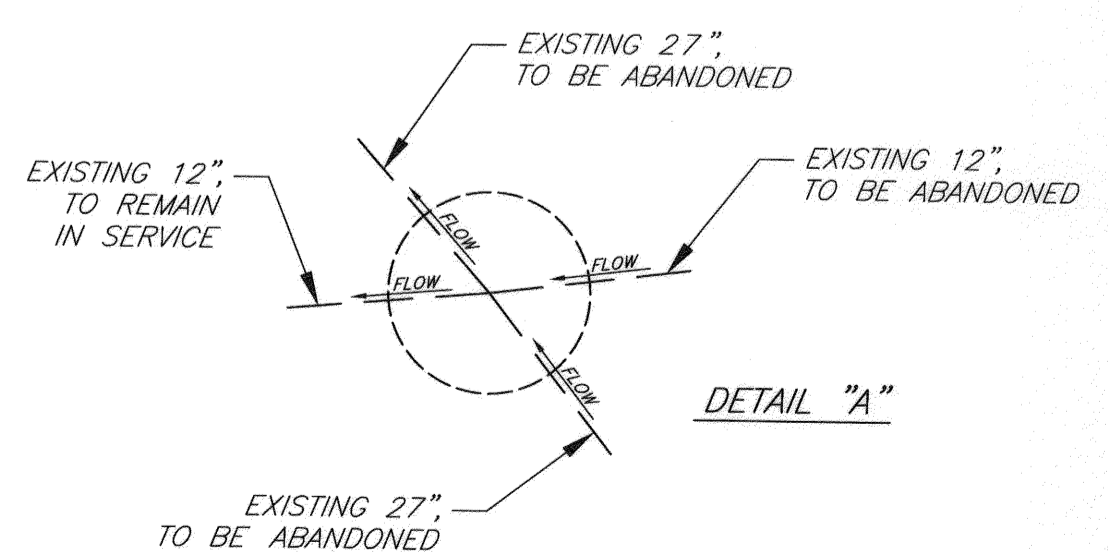
SEE SHT 25 FOR CONTINUATION

SPECIFIC DEMOLITION NOTES

- 1 ABANDON EXISTING SEWER MANHOLE PER DEMOLITION SPECIFICATIONS.
- 2 ABANDON EXISTING SEWER MAIN IN PLACE PER DEMOLITION SPECIFICATIONS.
- 3 EXISTING SEWER MAIN TO REMAIN IN SERVICE.
- 13 PLUG EXISTING 27" SEWER MAIN INLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC DETAIL "A", SHEET 6.
- 14 PLUG EXISTING 8" SEWER MAIN ~~INLET AND~~ OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLANS SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", SHEET 7.
- 15 PLUG EXISTING 12" SEWER MAIN ~~INLET AND~~ OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", SHEET 14.
- 16 PLUG EXISTING 12" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", SHEET 14.
- 17 PLUG EXISTING 6" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN ON MANHOLE SCHEMATIC, DETAIL "A", SHEET 8.
- 18 PLUG EXISTING 12" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN ON MANHOLE SCHEMATIC, DETAIL "A", SHEET 15.
- 19 ~~NOT USED~~ PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "C", SHEET 15.
- 20 PLUG EXISTING 12" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN ON MANHOLE SCHEMATIC, DETAIL "B", SHEET 15.
- 21 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", SHEET 7.
- 22 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", SHEET 6.
- 33 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET EXISTING 12" SEWER MAIN INLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", AT RIGHT.

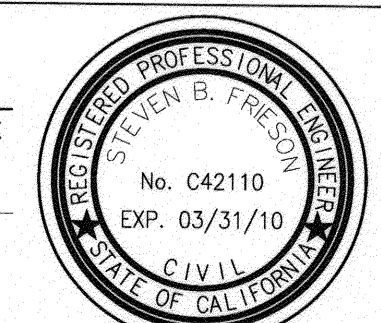
BENCHMARK NO. 15-A-3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "75-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831

IMPORTANT NOTICE
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BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/4/2009

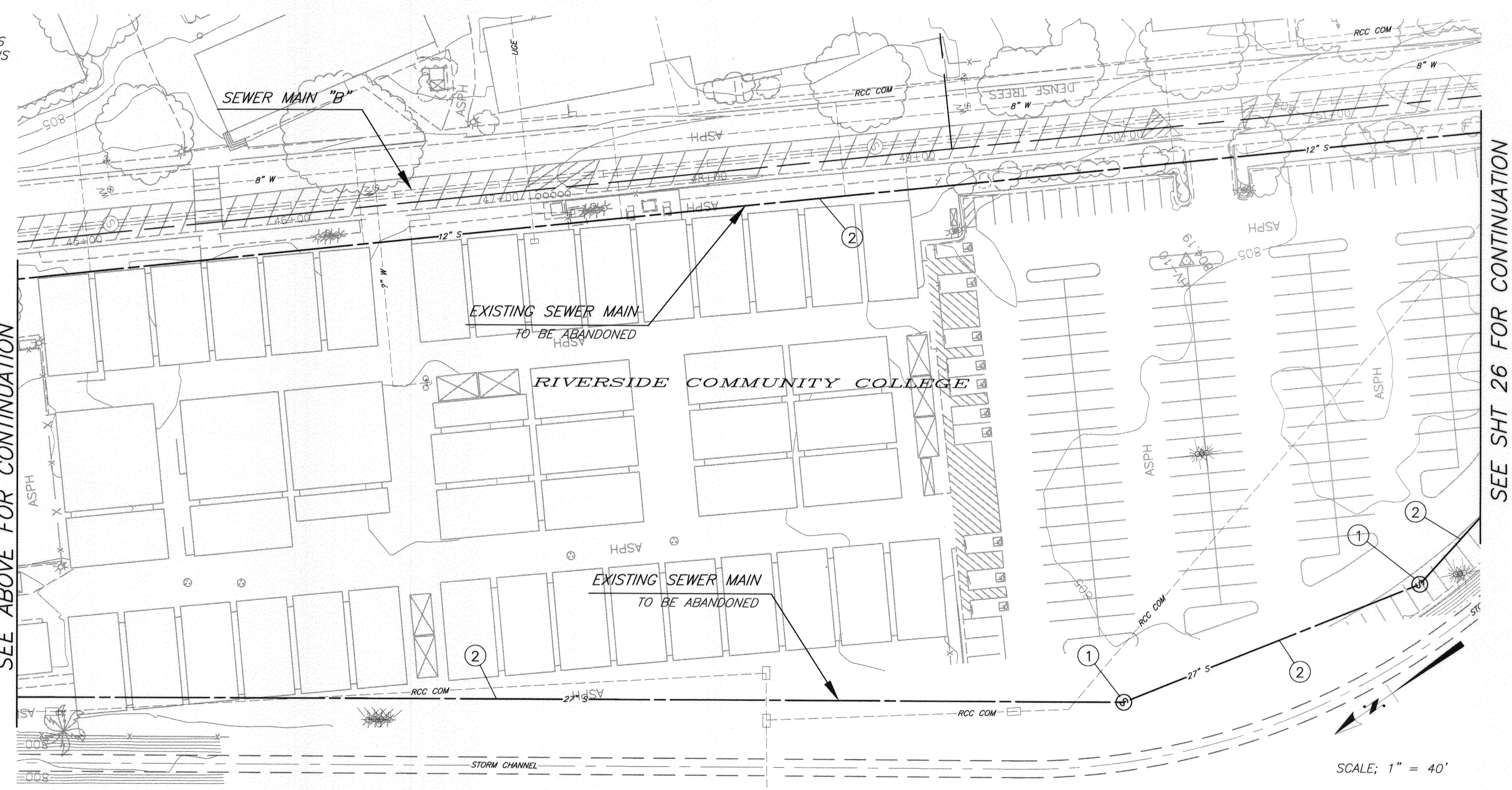
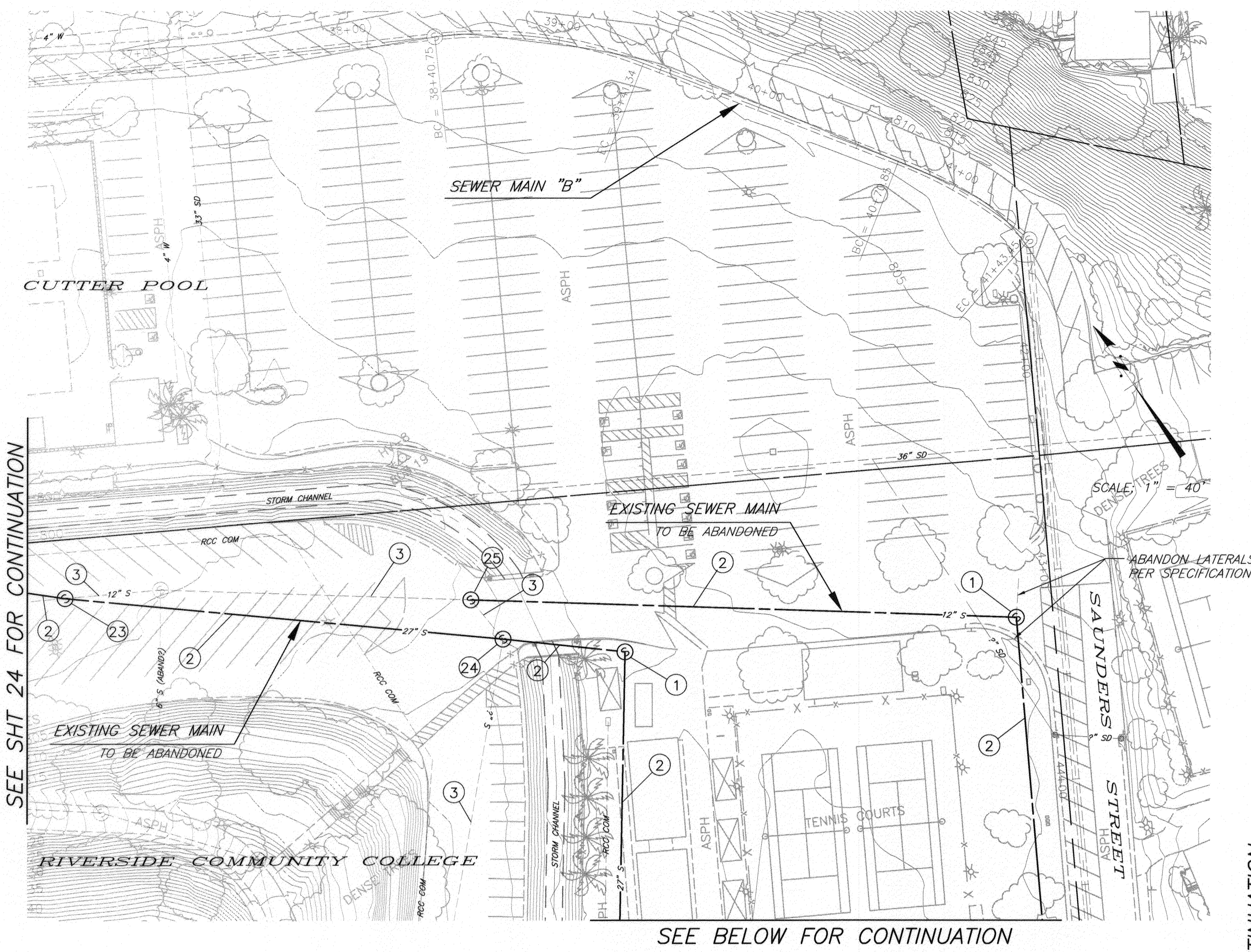


ADDED NOTE 19, CORRECTED NOTES 14 & 15
 DESIGNED BY: SEE DRAWN BY: CDRAKE CHECKED BY: SEE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature] DATE: 12/10/09
 PRINCIPAL ENGINEER: [Signature] DATE: 12/10/09
 INSPECTOR: [Signature] DATE: 12/10/09
 SURVEYOR: [Signature] DATE: 12/10/09
 ENGINEERING MANAGER: [Signature] DATE: 12/10/09

TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS
 RCC AND SAUNDERS STREET EXISTING SEWER DEMOLITION
 SCALE: AS SHOWN

ACC. No. W.O.
 S-2074
 SHEET 24 OF 29



SPECIFIC DEMOLITION NOTES

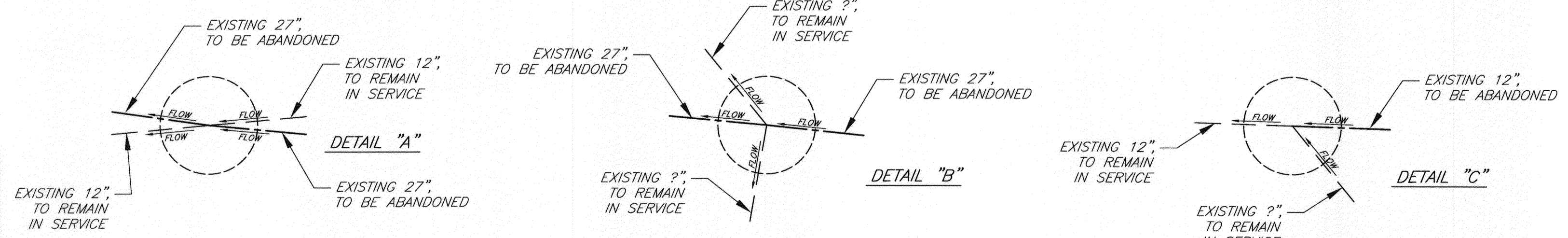
- 1 ABANDON EXISTING SEWER MANHOLE PER DEMOLITION SPECIFICATIONS.
- 2 ABANDON EXISTING SEWER MAIN IN PLACE PER DEMOLITION SPECIFICATIONS.
- 3 EXISTING SEWER MAIN TO REMAIN IN SERVICE.
- 23 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", BELOW.
- 24 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", BELOW.
- 25 PLUG EXISTING 12" SEWER MAIN INLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "C", BELOW.

SEE SHT 24 FOR CONTINUATION

SEE BELOW FOR CONTINUATION

SEE ABOVE FOR CONTINUATION

SEE SHT 26 FOR CONTINUATION



MANHOLE SCHEMATIC
NOT TO SCALE

BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
ELEV - 753.831

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BIRGE ENGINEERING, INC.
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UPLAND, CA 91786
TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 12/11/09



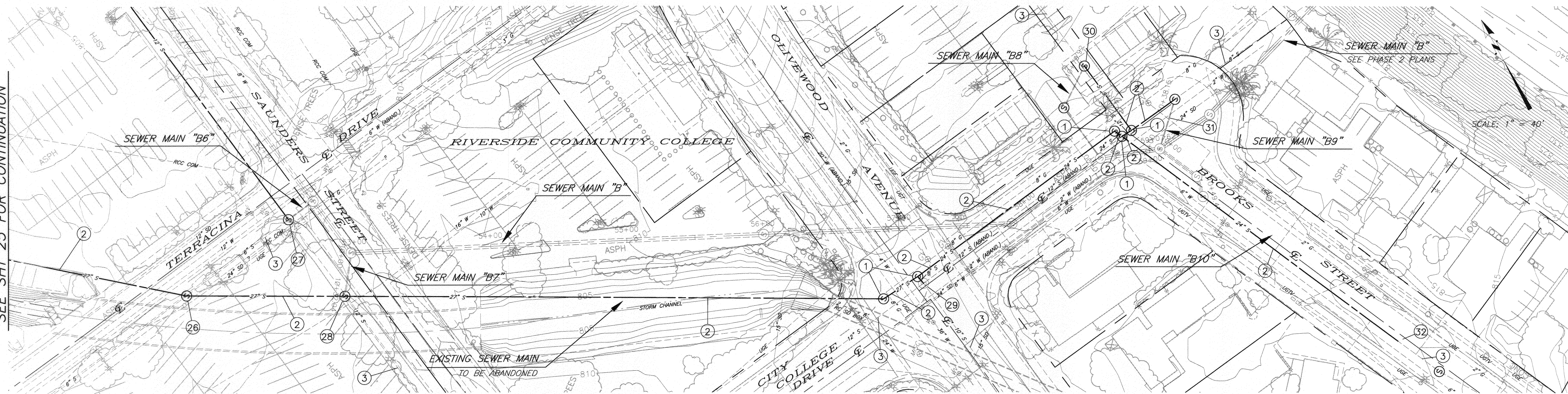
MARK	REVISIONS	APPR	DATE

**CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT**
APPROVED BY: [Signature]
INSPECTOR: [Signature]
SURVEYOR: [Signature]
ENGINEERING MANAGER: [Signature]

**TEQUESQUITE ARROYO
TRUNK SEWER IMPROVEMENTS
RCC AND SAUNDERS STREET
EXISTING SEWER DEMOLITION**
SCALE: AS SHOWN

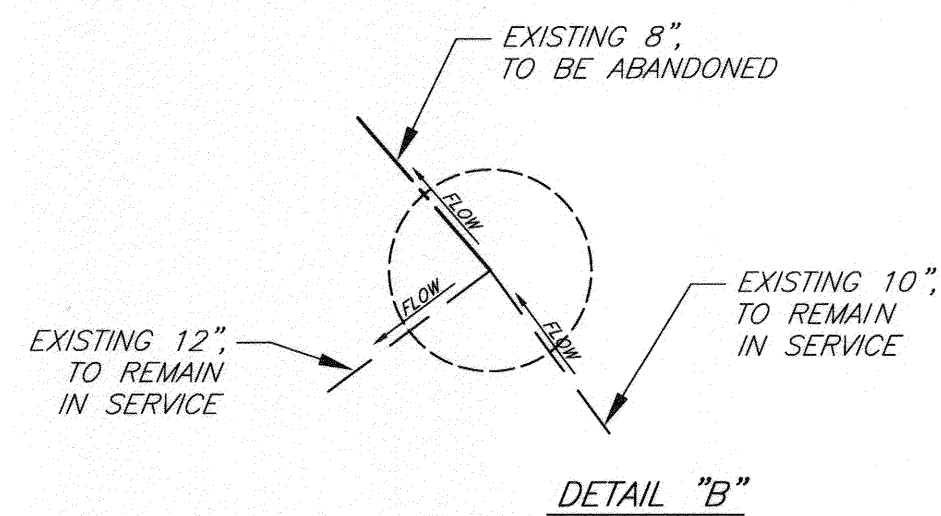
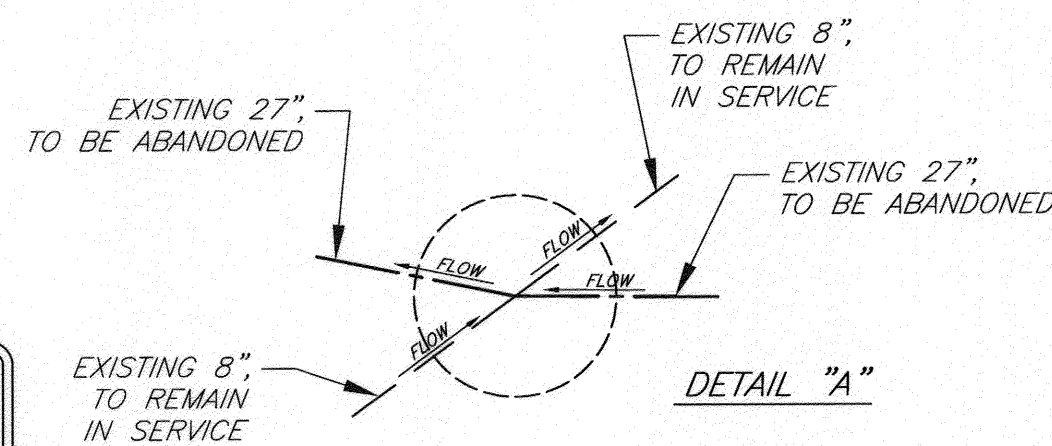
ACC. No. _____
W.O. _____
S-2074
SHEET 25 OF 29

SEE SHT 25 FOR CONTINUATION



SPECIFIC DEMOLITION NOTES

- 1 ABANDON EXISTING SEWER MANHOLE PER DEMOLITION SPECIFICATIONS.
- 2 ABANDON EXISTING SEWER MAIN IN PLACE PER DEMOLITION SPECIFICATIONS.
- 3 EXISTING SEWER MAIN TO REMAIN IN SERVICE.
- 26 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", BELOW.
- 27 PLUG EXISTING 12" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", SHEET 11.
- 28 PLUG EXISTING 27" SEWER MAIN INLET AND OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", SHEET 11.
- 29 PLUG EXISTING 8" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", BELOW.
- 30 PLUG EXISTING 6" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "A", SHEET 12.
- 31 PLUG EXISTING 8" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "B", SHEET 12.
- 32 PLUG EXISTING 24" SEWER MAIN OUTLET PER DEMOLITION SPECIFICATIONS. SEE PLAN SHOWN IN MANHOLE SCHEMATIC, DETAIL "C", SHEET 12.



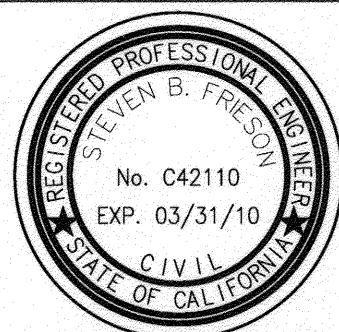
MANHOLE SCHEMATIC
NOT TO SCALE

BENCHMARK NO. 15-A3
CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
ELEV - 753.831

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ENGINEER IN RESPONSIBLE CHARGE
STEVEN B. FRIESON
R.C.E. No. C42110 expires 03/31/10
DATE 2/11/2009



DESIGNED BY: SBF DRAWN BY: CORAKE CHECKED BY: SBF

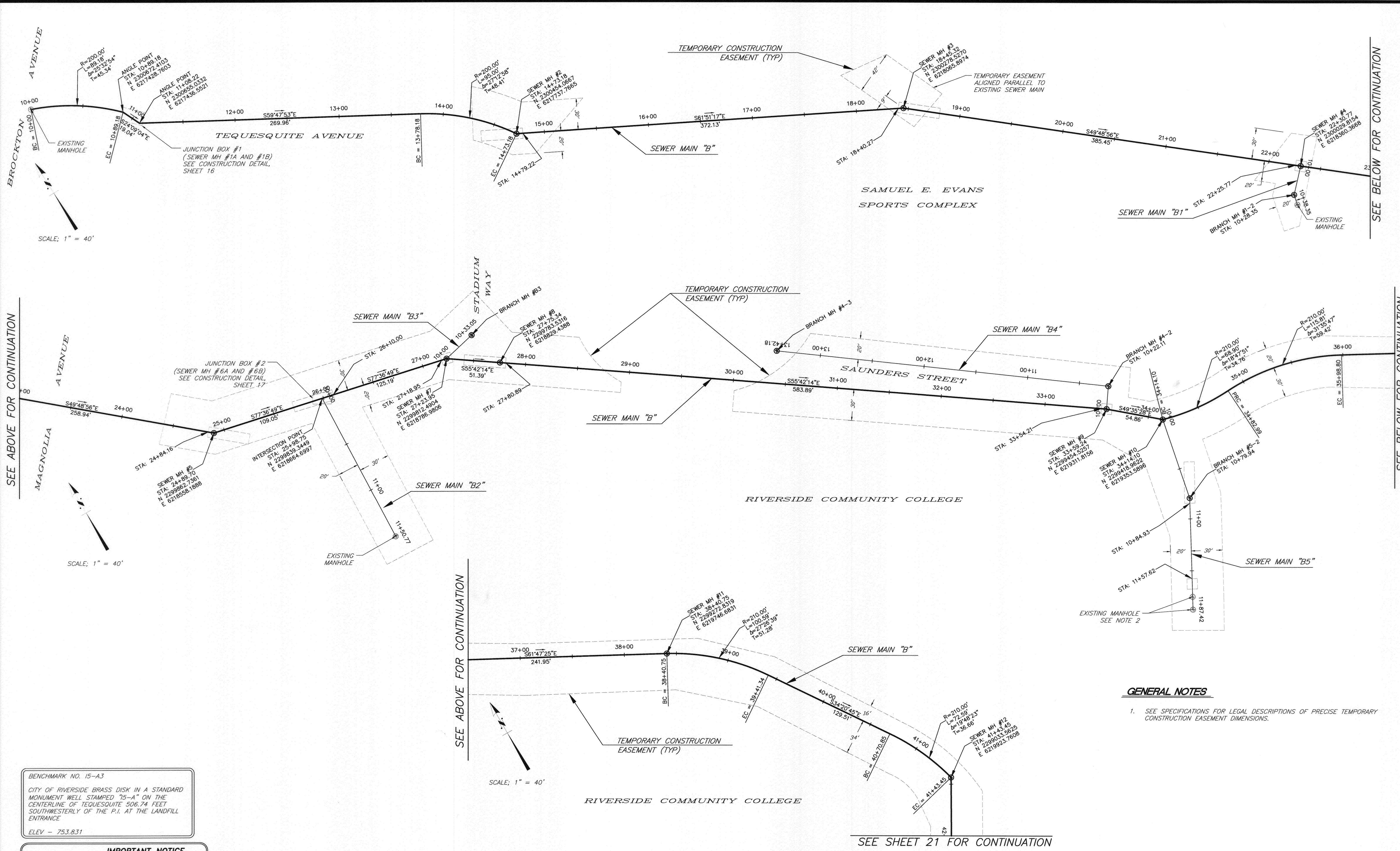
CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	1/11/2009		1/11/2009
INSPECTOR	1/11/2009		1/11/2009
SURVEYOR	1/11/2009		1/11/2009
ENGINEERING MANAGER	1/11/2009		1/11/2009

DATE 2/11/09

TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS
RCC AND BROOKS STREET
EXISTING SEWER DEMOLITION
SCALE: AS SHOWN

ACC. No. _____ W.G. _____
S-2074
SHEET 26 OF 29



SEE ABOVE FOR CONTINUATION

SEE BELOW FOR CONTINUATION

SEE BELOW FOR CONTINUATION

SEE ABOVE FOR CONTINUATION

SEE SHEET 21 FOR CONTINUATION

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831

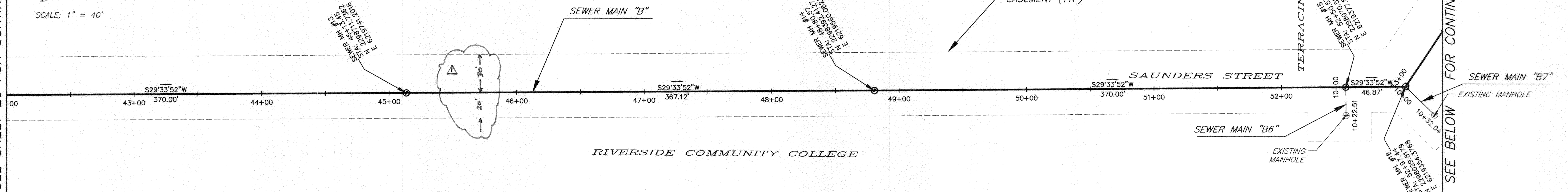
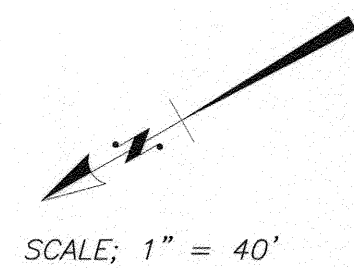
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GENERAL NOTES
 1. SEE SPECIFICATIONS FOR LEGAL DESCRIPTIONS OF PRECISE TEMPORARY CONSTRUCTION EASEMENT DIMENSIONS.

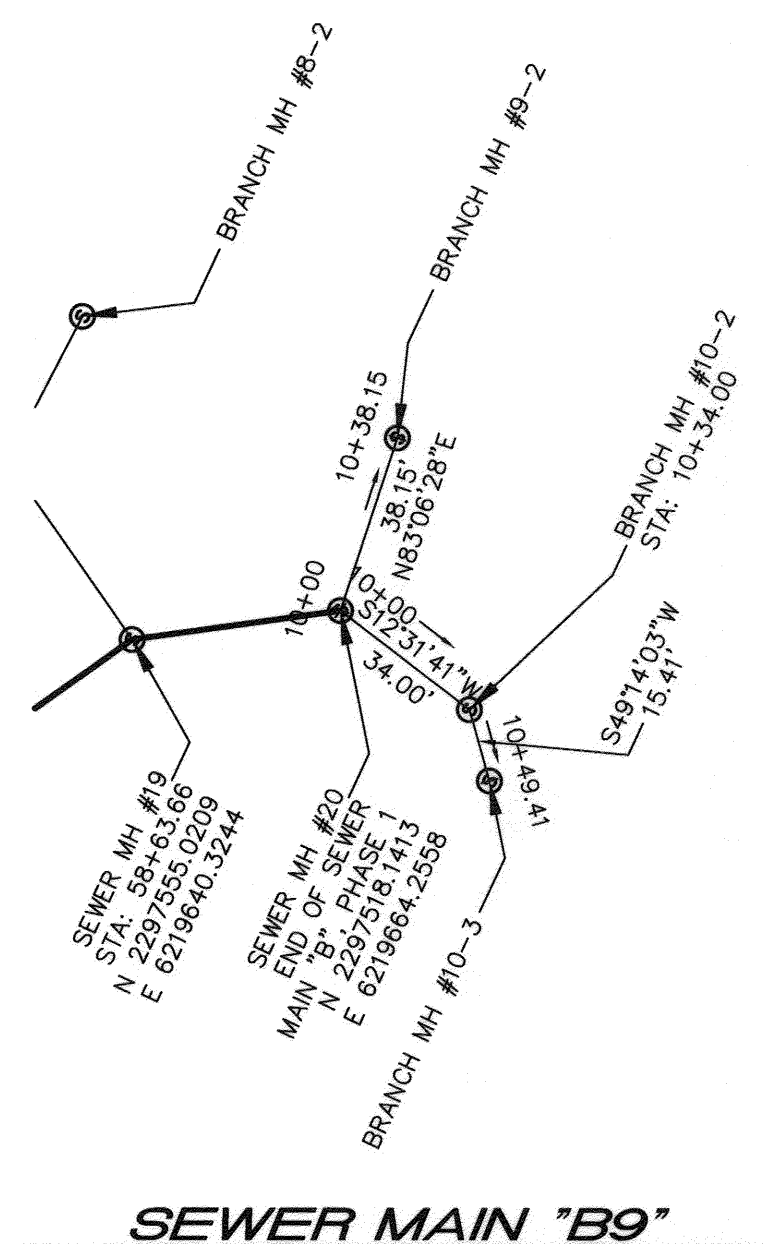
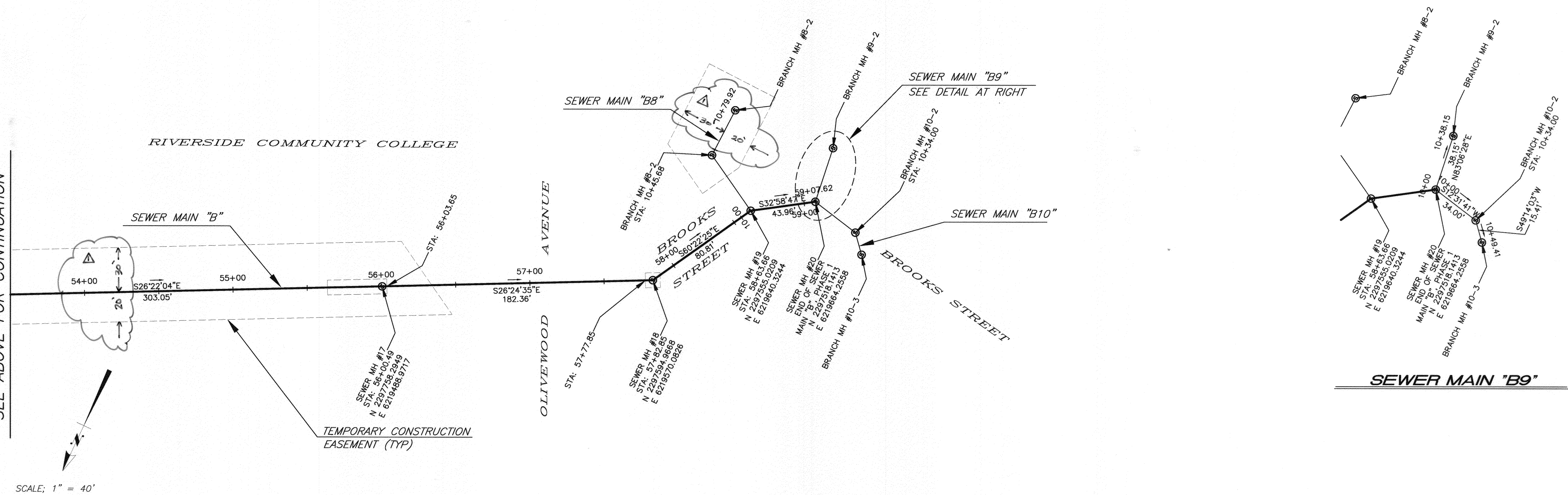
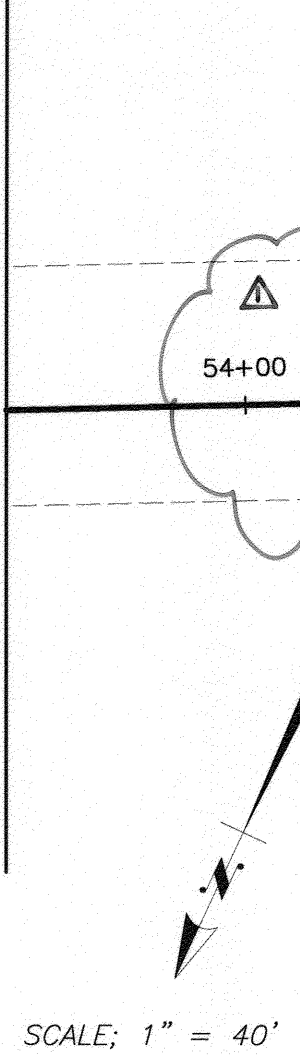
<p>BIRGE ENGINEERING, INC. 600 N. MOUNTAIN AVENUE, SUITE B204 UPLAND, CA 91786 TEL: (909) 579-0842 FAX: (909) 579-0804</p>	<p>ENGINEER IN RESPONSIBLE CHARGE</p> <p>STEVEN B. FRIESON R.C.E. No. C42110 expires 03/31/10 DATE 12/11/09</p>		<p>CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT</p>		<p>TEQUESQUITE ARROYO TRUNK SEWER IMPROVEMENTS TEQUESQUITE AVENUE TEMPORARY CONSTRUCTION EASEMENT LIMITS</p>	<p>ACC. No. _____ W.O. _____</p> <p>S-2074</p> <p>SHEET 27 OF 29</p>
			<p>APPROVED BY</p> <p>PRINCIPAL ENGINEER: <i>[Signature]</i> INSPECTOR: <i>[Signature]</i> SURVEYOR: <i>[Signature]</i> ENGINEERING MANAGER: <i>[Signature]</i></p>	<p>APPROVED BY</p> <p>CITY ENGINEER: <i>[Signature]</i></p> <p>DATE 12/11/09</p>		

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SEE SHEET 20 FOR CONTINUATION



SEE ABOVE FOR CONTINUATION



GENERAL NOTES

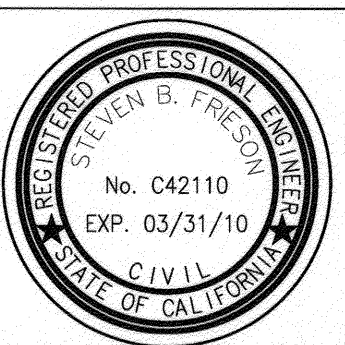
- SEE SPECIFICATIONS FOR LEGAL DESCRIPTIONS OF PRECISE TEMPORARY CONSTRUCTION EASEMENT DIMENSIONS.

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831

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Be
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ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/11/2009



MARK	REVISIONS	APPR	DATE
▲	ADDED DIMENSIONS	SBE	12/11/2009

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[Signature]	12/11/2009	CITY ENGINEER	[Signature]	12/11/2009
INSPECTOR	[Signature]				
SURVEYOR	[Signature]				
ENGINEERING MANAGER	[Signature]				

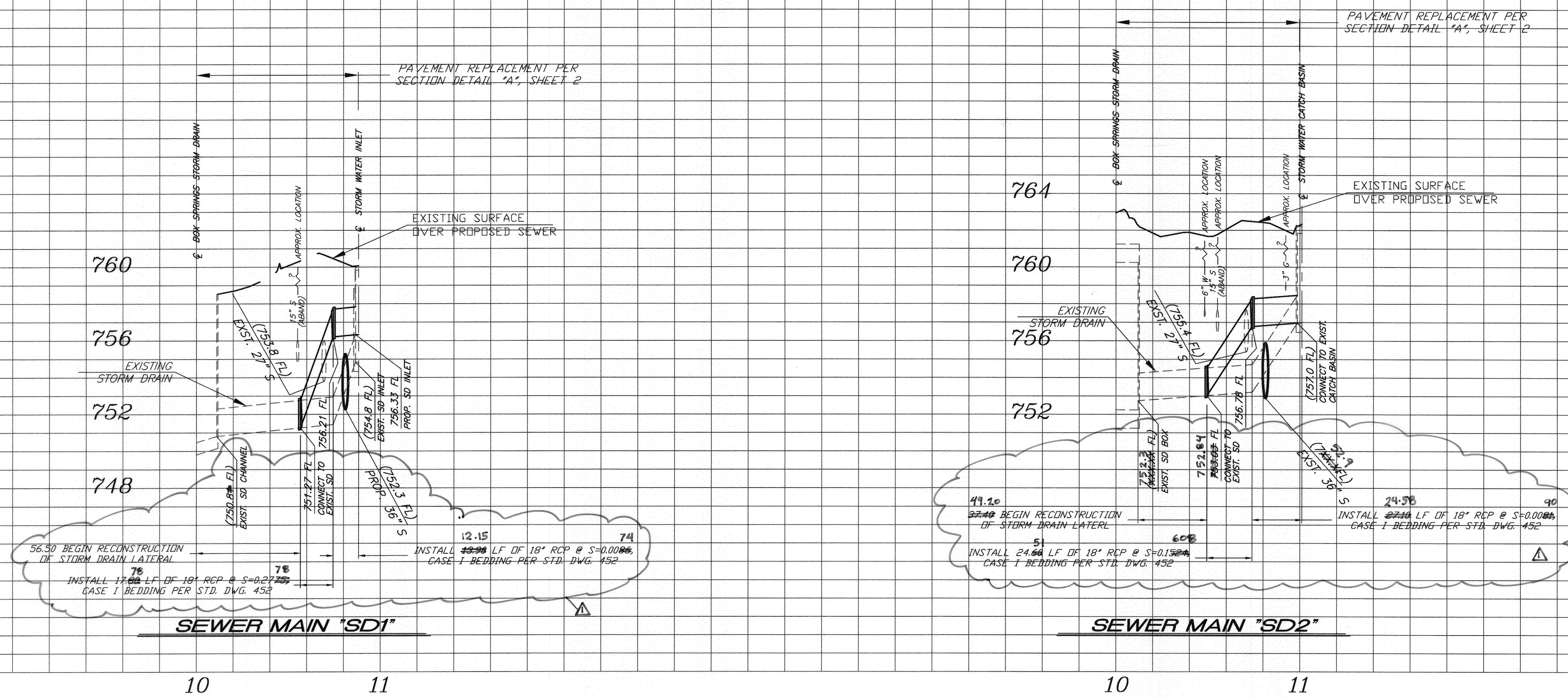
TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 TEQUESQUITE AVENUE
 TEMPORARY CONSTRUCTION EASEMENT LIMITS

SCALE: AS SHOWN

ACC. No. _____ W.G. _____
 S-2074
 SHEET 28 OF 29

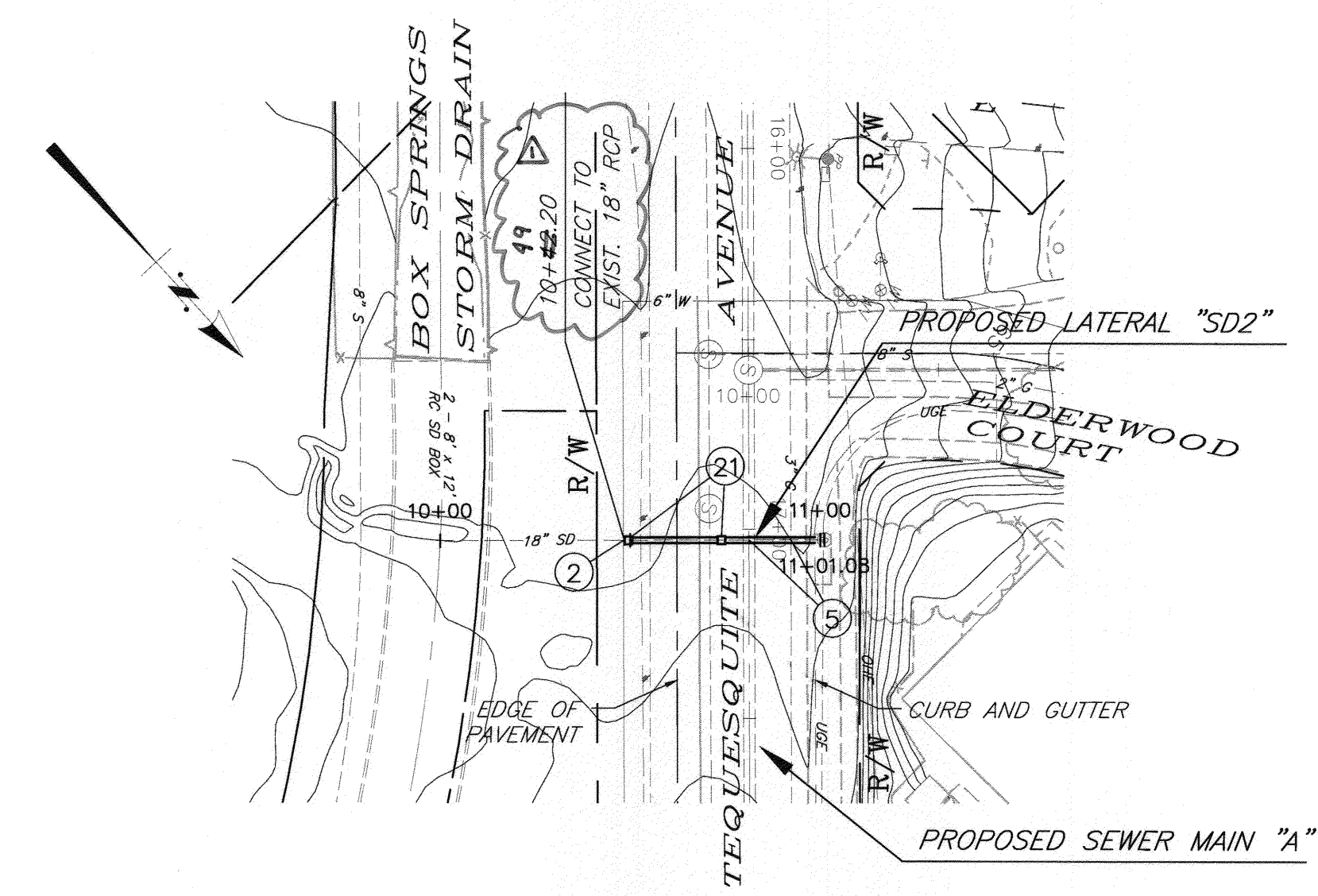
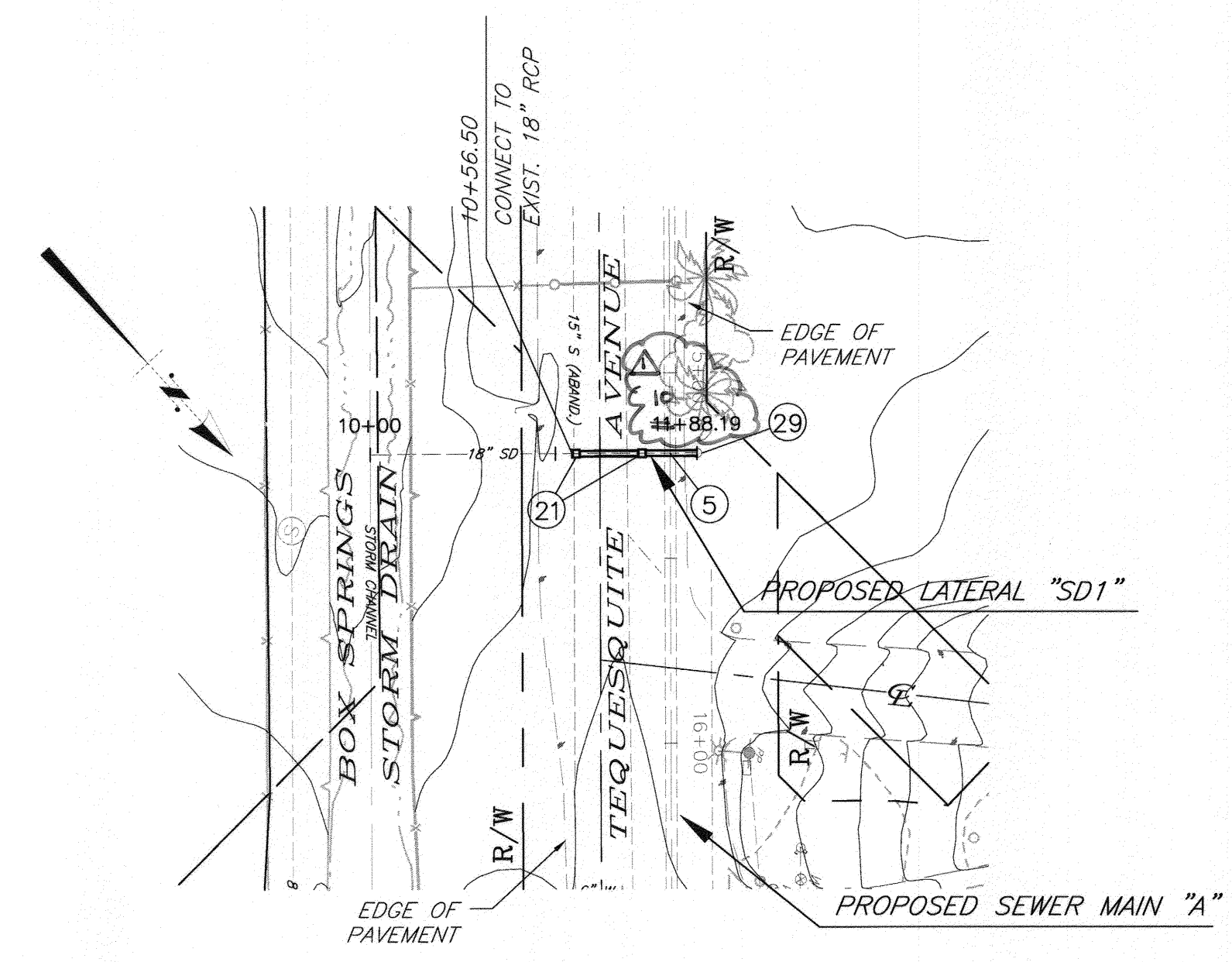
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IMPORTANT NOTICE
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PROFILE SCALE
 HORIZ. 1" = 40'
 VERT. 1" = 4'

BENCHMARK NO. 15-A3
 CITY OF RIVERSIDE BRASS DISK IN A STANDARD MONUMENT WELL STAMPED "15-A" ON THE CENTERLINE OF TEQUESQUITE 506.74 FEET SOUTHWESTERLY OF THE P.I. AT THE LANDFILL ENTRANCE
 ELEV - 753.831



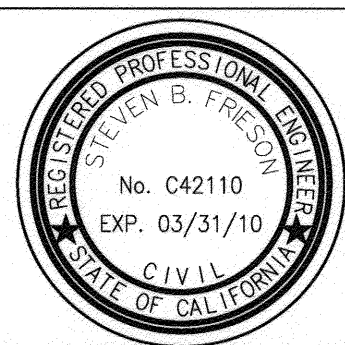
SPECIFIC CONSTRUCTION NOTES

- 2) PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR TO VERIFY LOCATION. PROTECT WATER UTILITY IN PLACE. IF RELOCATION IS REQUIRED CONTRACTOR IS TO NOTIFY THE WATER UTILITY ENGINEER. THE WATER UTILITY SHALL HAVE 30 BUSINESS DAYS TO RELOCATE THE INTERFERING FACILITIES.
- 5) PROTECT AND SUPPORT EXISTING UTILITY IN PLACE. VERIFY LOCATION PRIOR TO CONSTRUCTION.
- 21) INSTALL CONCRETE COLLAR PER STD. DWG. 424. CONTRACTOR TO FIELD VERIFY STORM DRAIN LATERAL LOCATION.
- 29) CONSTRUCT NEW STORM DRAIN INLET PER STD. DWG. 412.

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Be
 BIRGE ENGINEERING, INC.
 600 N. MOUNTAIN AVENUE, SUITE B204
 UPLAND, CA 91786
 TEL: (909) 579-0842 FAX: (909) 579-0804

ENGINEER IN RESPONSIBLE CHARGE
 STEVEN B. FRIESON
 R.C.E. No. C42110 expires 03/31/10
 DATE 12/10/09



DESIGNED BY: SEF DRAWN BY: CORAKE CHECKED BY: SEF
 CHECKED AND CORRECTED MULTIPLE DIMENSIONS REVISIONS APRR DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature] DATE: 12/10/09
 INSPECTOR: [Signature] DATE: 12/10/09
 SURVEYOR: [Signature] DATE: 12/10/09
 ENGINEERING MANAGER: [Signature] DATE: 12/10/09

TEQUESQUITE ARROYO
 TRUNK SEWER IMPROVEMENTS
 TEQUESQUITE AVENUE
 STORM DRAIN LATERAL RECONSTRUCTION

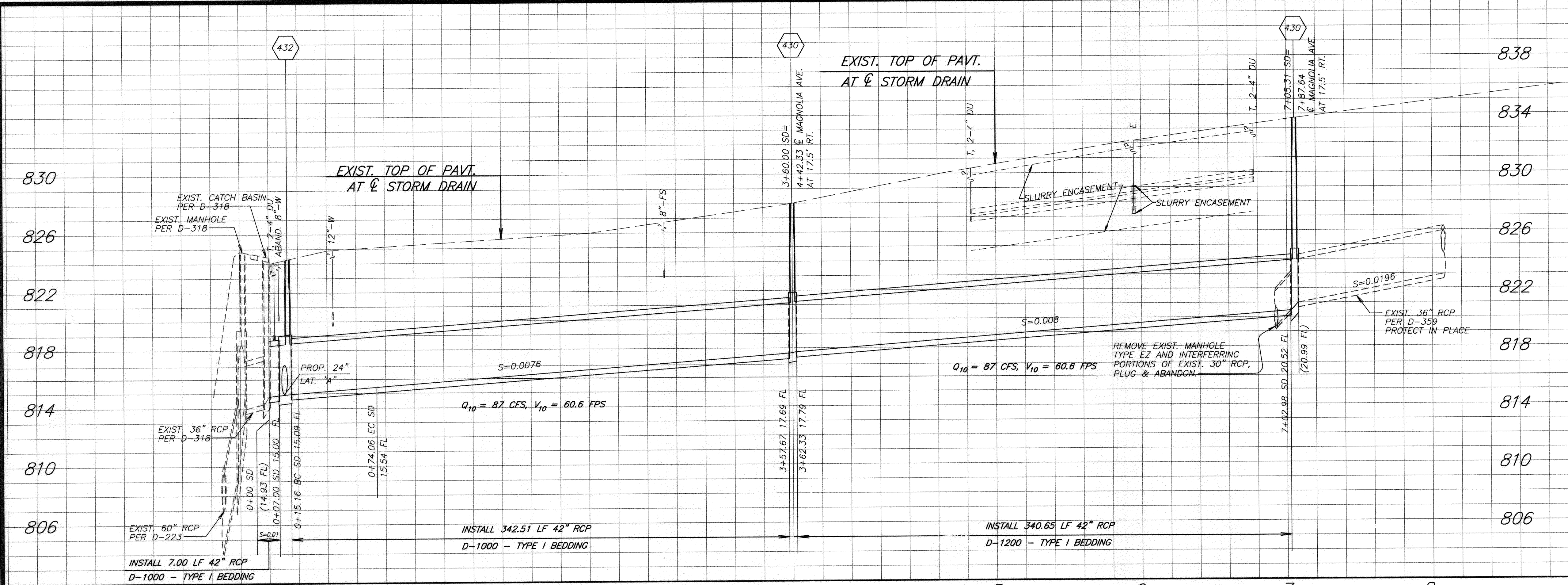
ACC. No. _____ W.D. _____
 S-2074
 SHEET 29 OF 29

GENERAL CONSTRUCTION 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 PLANS 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, 2006 EDITION.
- 5 ALL UTILITIES CROSSING THE PROPOSED STORM DRAINS SHALL BE POTHOLED AND LOCATED HORIZONTALLY AND VERTICALLY PRIOR TO THE ISSUANCE OF GRADE SHEETS. THE CONTRACTOR SHALL COORDINATE WITH THE INSPECTOR TO HAVE THE LOCATIONS AND ELEVATIONS OF CROSSING UTILITIES VERIFIED BY THE CITY SURVEYOR.
- 6 FLOW LINE ELEVATIONS OF STORM DRAIN MEET POINTS SHALL BE VERIFIED IN THE FIELD PRIOR TO THE ISSUANCE OF GRADE SHEETS.
- 7 PLUG ALL ABANDONED STORM DRAINS WITH PCC AND BACKFILL WITH SAND.
- 8 REPLACE ALL STRIPING AND PAVEMENT MARKING DAMAGED OR DESTROYED BY THE CONTRACTOR'S OPERATIONS. MINIMUM QUANTITIES ARE: 700 LF 4" WHITE SKIP STRIPE (7" STRIPE, 17" GAP) 700 LF 6" SOLID WHITE STRIPE 150 LF 4" SOLID DOUBLE YELLOW STRIPE ONE EACH "BIKE LANE" PAVEMENT MARKING AND "BICYCLE" AND "ARROW" STENCILS.

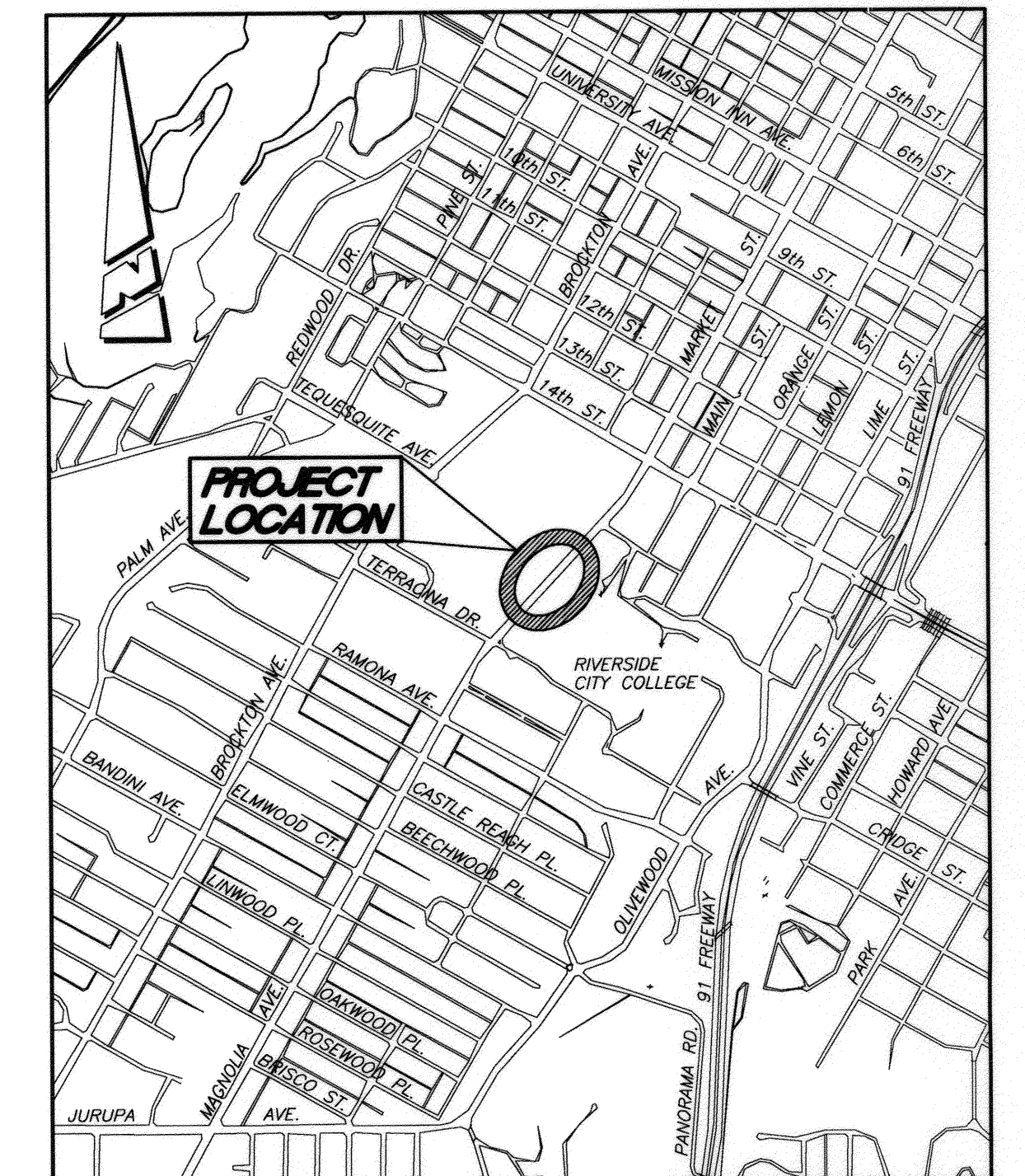
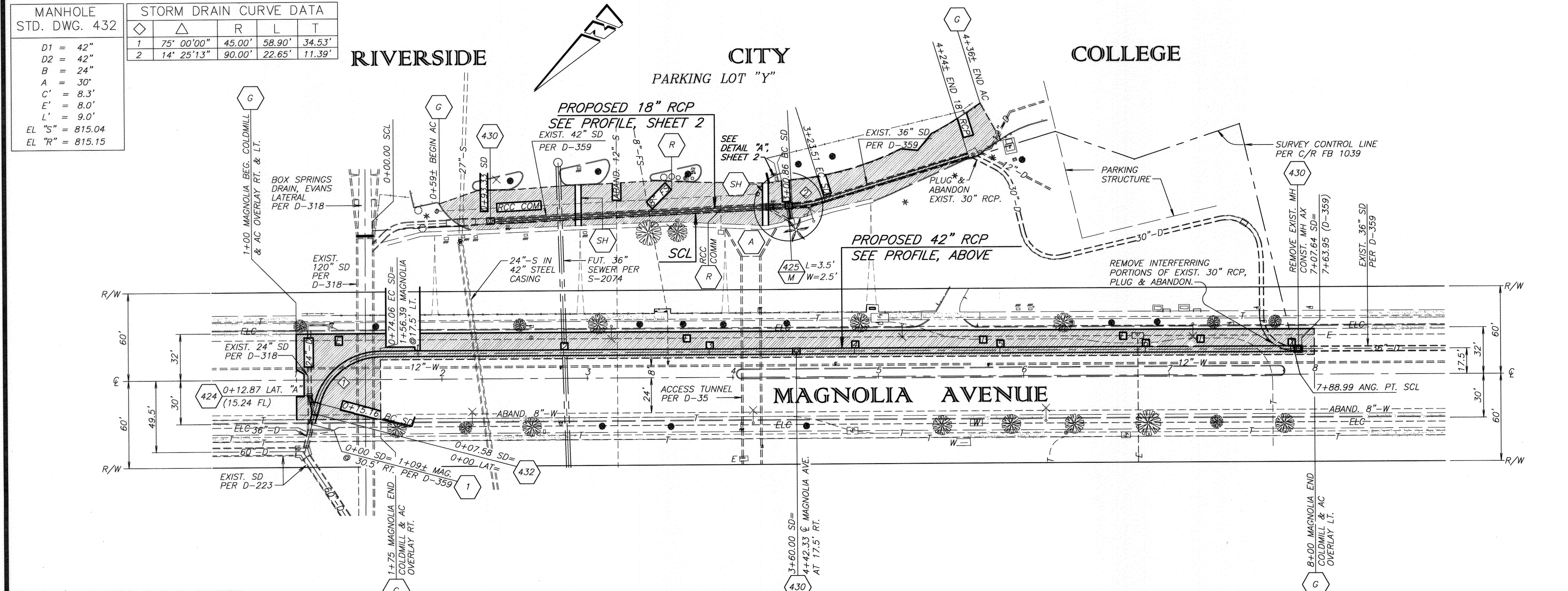
CONSTRUCTION LEGEND:

- 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. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- MAINTAIN TUNNEL ACCESS AT ALL TIMES EXCEPT TIME REQUIRED TO EXCAVATE, INSTALL AND BACKFILL PIPE ACROSS ENTRANCE OR BY INSTALLING STEEL PLATING.
- RECHANNEL BASE OF CATCH BASIN (R/CB STD. DWG. CB-100) TO TRANSITION FROM THE PROP. 42" RCP TO THE EXIST. 36" RCP PER CHANNEL DETAIL OF STD. DWG. 405.
- PRIOR TO CONSTRUCTING THE 18" RCP, THE CONTRACTOR SHALL CONST. TEMPORARY 18" HDPE BYPASS WITHIN EXIST. 42" RCP TO FACILITATE RELOCATION OF EXIST. UTILITIES.
- REMOVE AND REPLACE EXISTING AC SPEED HUMP. SEE DETAIL, SHEET 2.
- RELOCATE UTILITIES. CONTRACTOR SHALL COMPLETE THE STORM DRAIN BY-PASS PRIOR TO RELOCATING THE INDICATED UTILITY.
- COLDMILL 0.15' IN DEPTH AND OVERLAY WITH 0.15' DGAC. EXACT LIMITS OF COLDMILLING AND AC OVERLAY IN RCC PARKING LOT "Y" TO BE DETERMINED IN THE FIELD BY THE INSPECTOR. COLD MILLING AND AC OVERLAY IN PARKING LOT "Y" SHALL BE DONE IMMEDIATELY AFTER COMPLETION OF TEQUESQUITE TRUNK SEWER IN PARKING LOT "Y". COLDMILLING AND AC OVERLAY IN MAGNOLIA AVE. SHALL BE DONE IMMEDIATELY UPON COMPLETION OF STORM DRAIN WORK IN MAGNOLIA AVENUE.
- REMOVE AREAS OF FAILED PAVING IN MAGNOLIA AVE. AS DIRECTED BY THE INSPECTOR. REPLACE WITH 0.75" AC OVER 1.4' CAB.



MANHOLE STD. DWG. 432		STORM DRAIN CURVE DATA			
		Δ	R	L	T
D1 = 42"	1	75° 00' 00"	45.00'	58.90'	34.53'
D2 = 42"	2	14° 25' 13"	90.00'	22.65'	11.39'

A = 42"
 B = 24"
 C = 30"
 C' = 8.3'
 E' = 8.0'
 L' = 9.0'
 EL "S" = 815.04
 EL "R" = 815.15

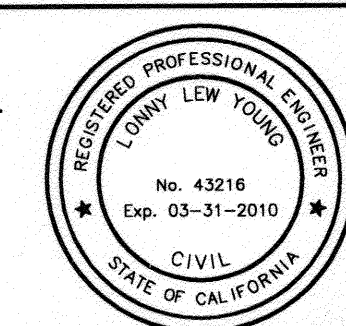


PROJECT LOCATION MAP
NO SCALE

Underground Service Alert
CALL BEFORE YOU DIG
CALL: TOLL FREE 1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK 16-H2
P.K. NAIL AND CITY ENGINEER TAG IN THE BACK OF THE CATCH BASIN AT THE SOUTHEAST CORNER OF MARKET STREET AND FOURTEENTH STREET.
1929 ELEVATION 834.478

ENGINEER IN RESPONSIBLE CHARGE
LONNY LEW YOUNG
R.C.E. No. 43216 expires 3/31/2010
DATE 10/30/09



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT

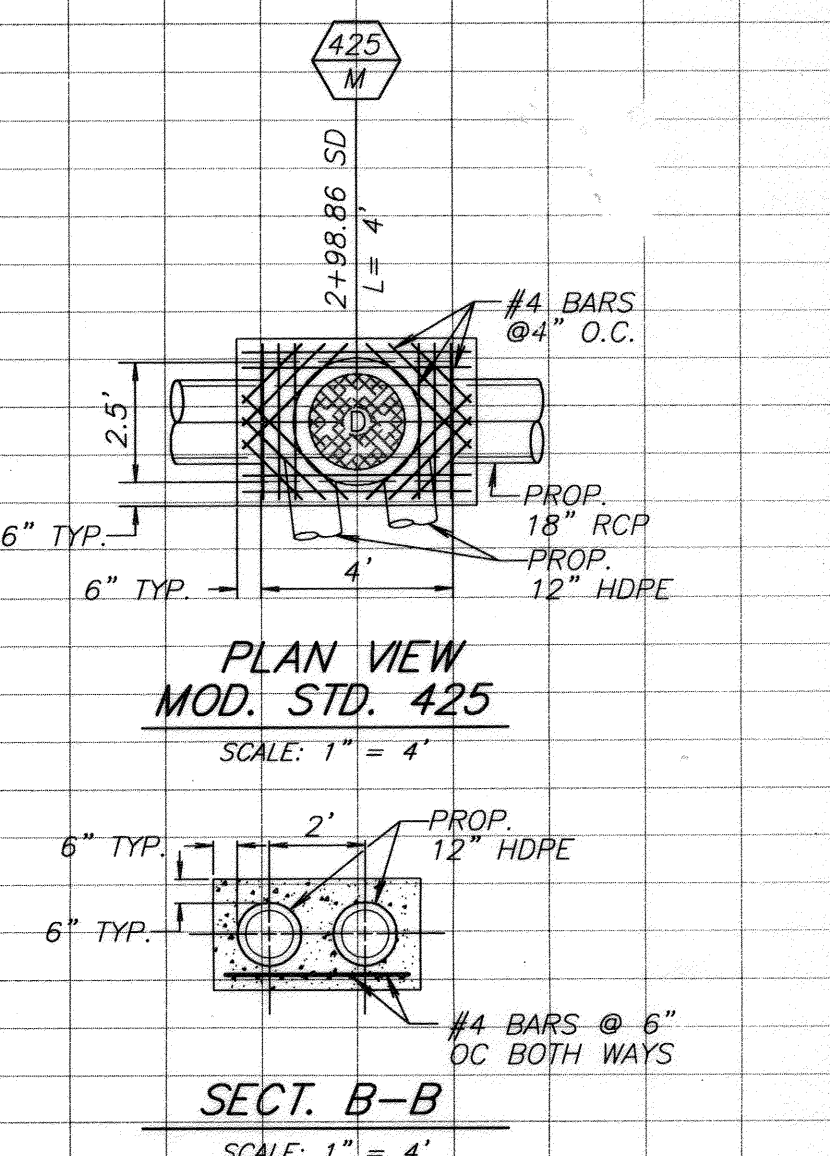
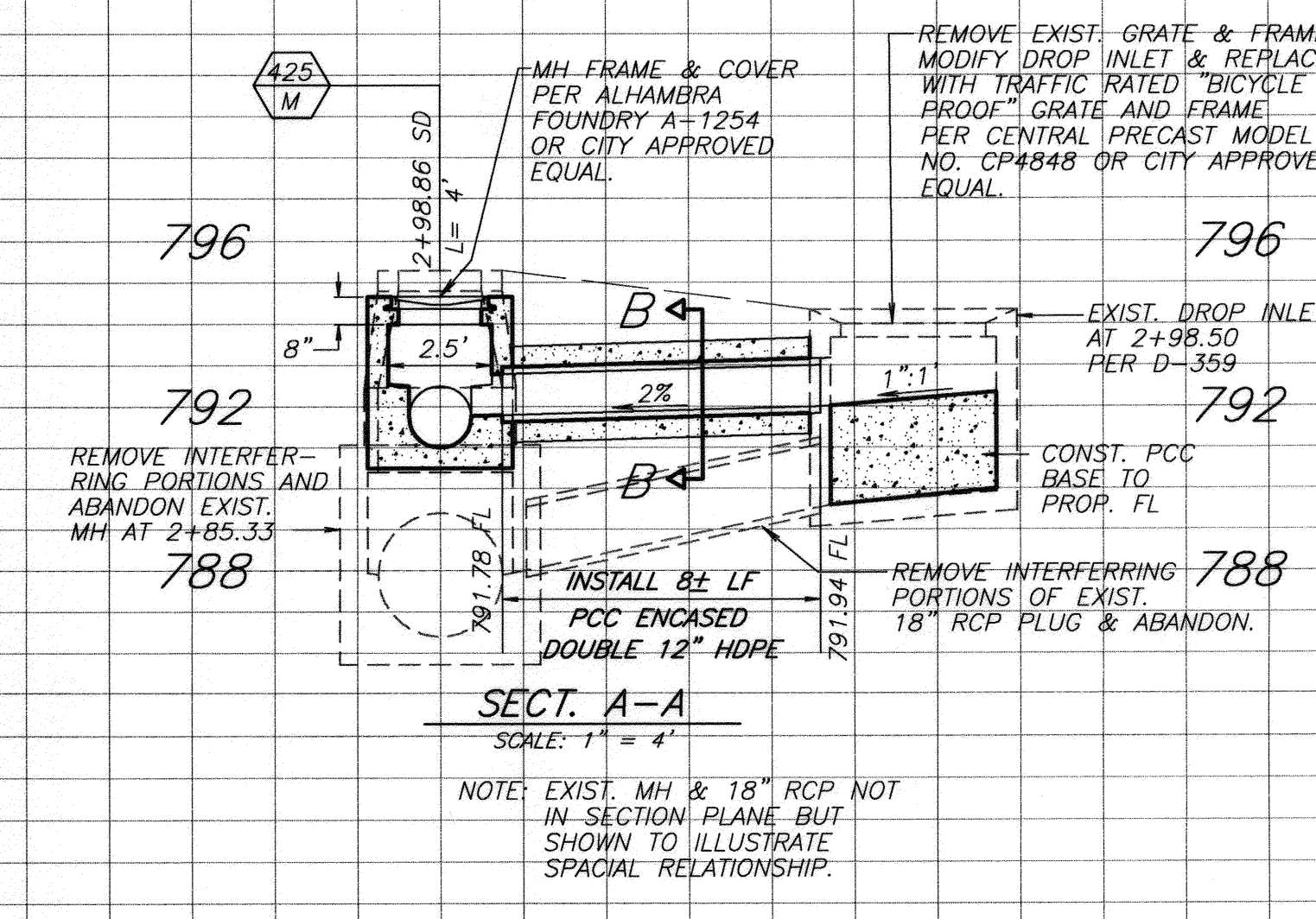
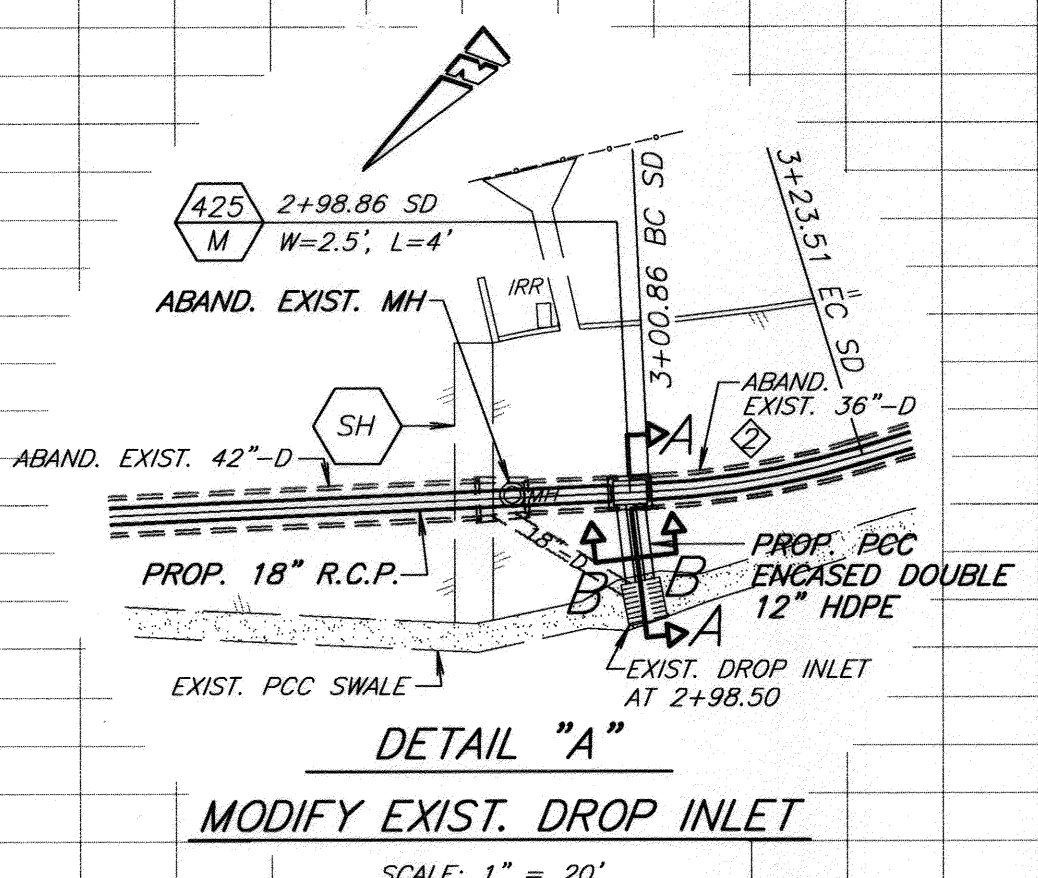
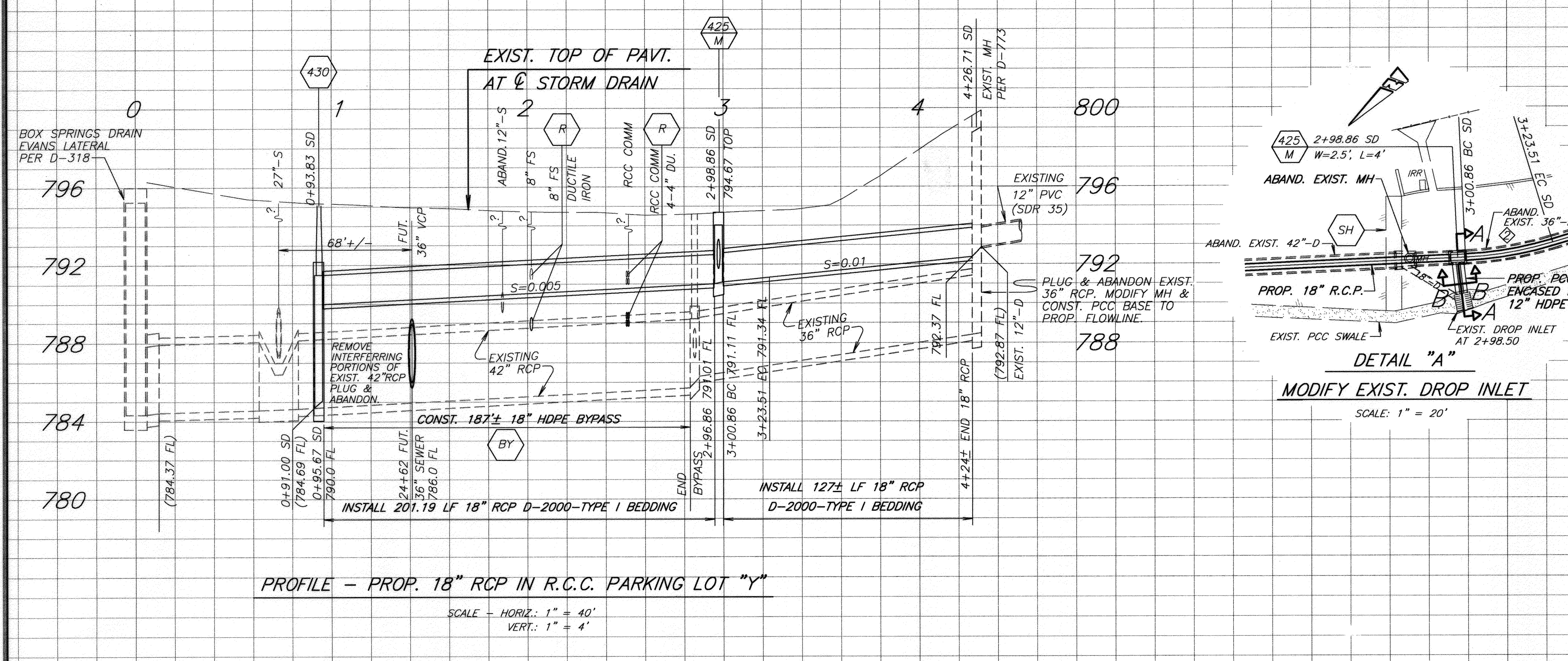
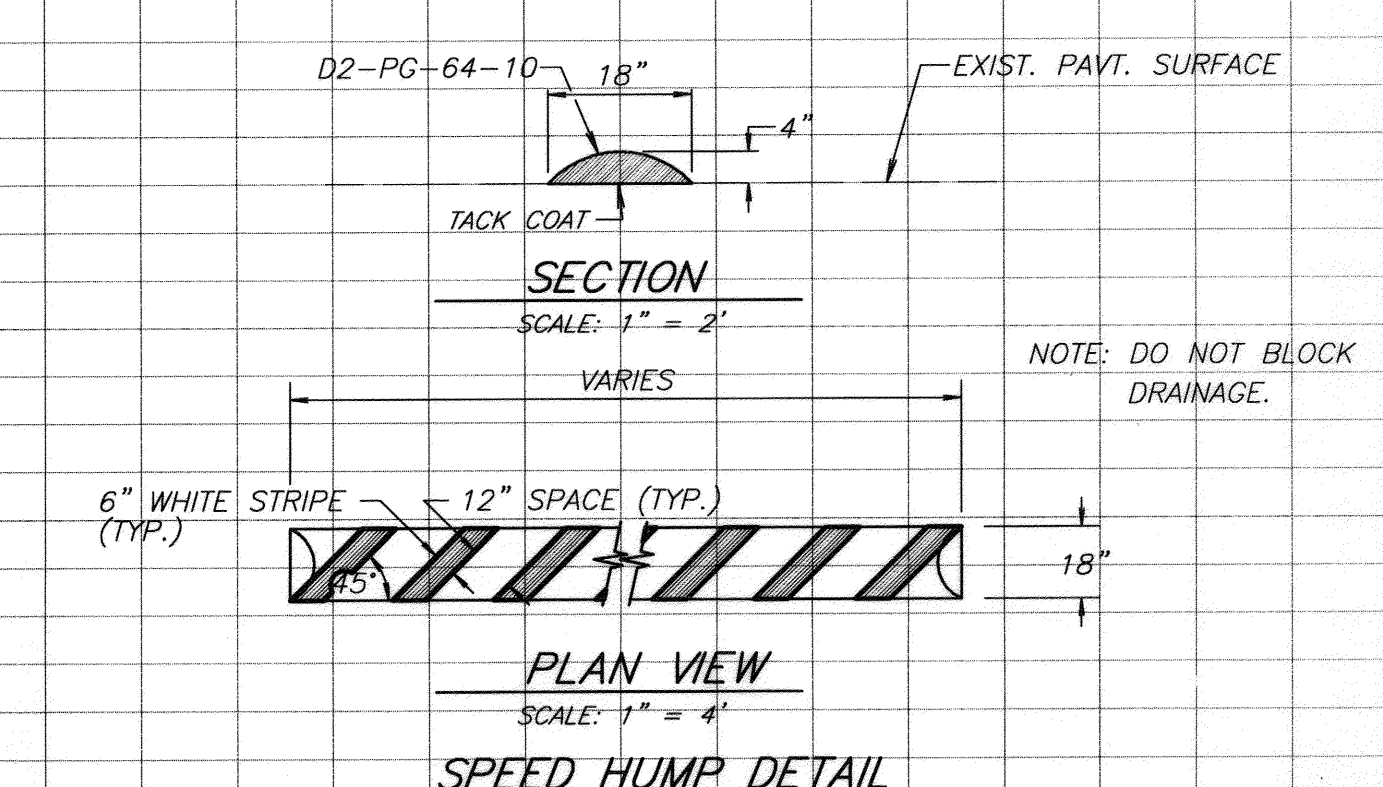
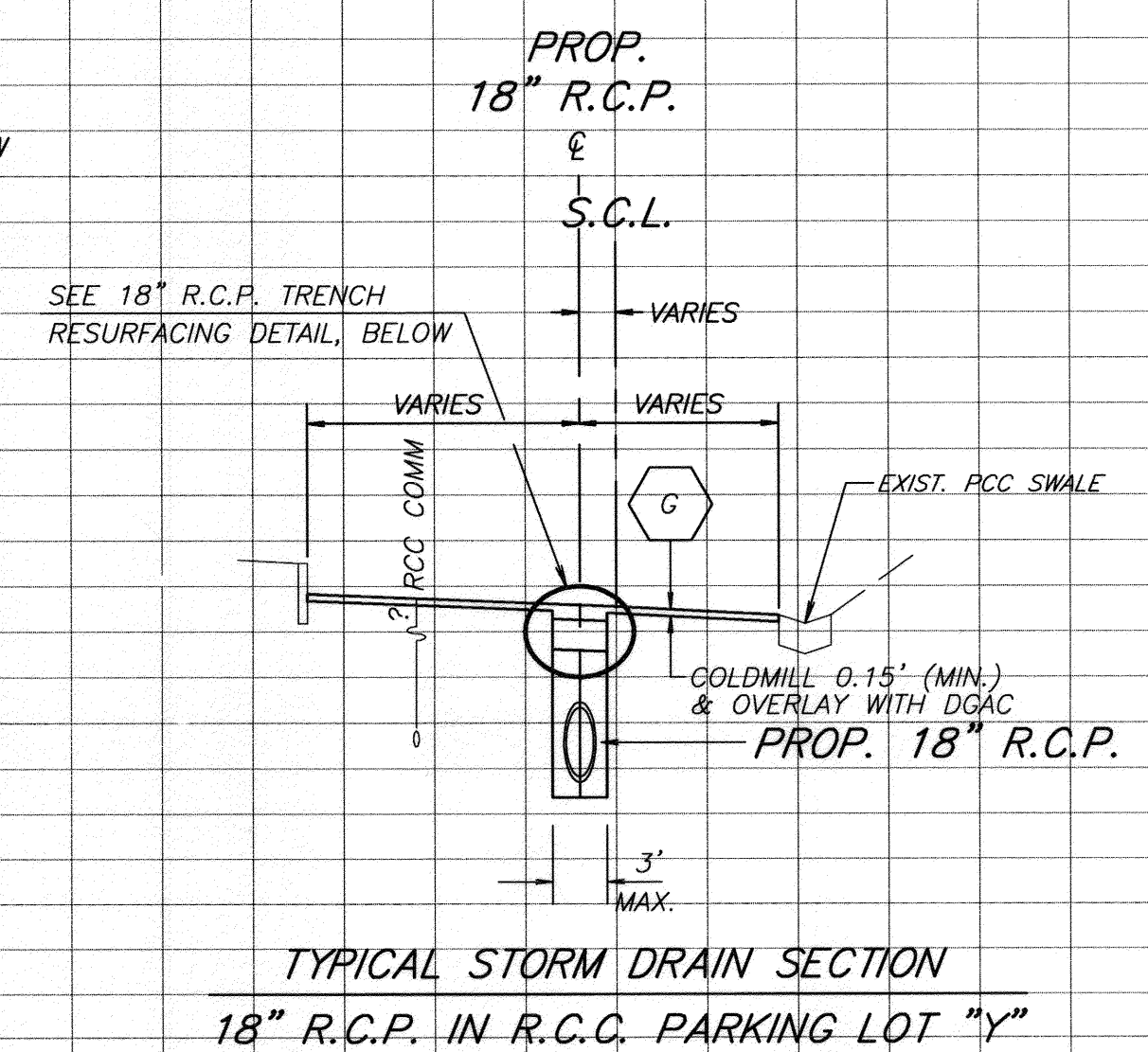
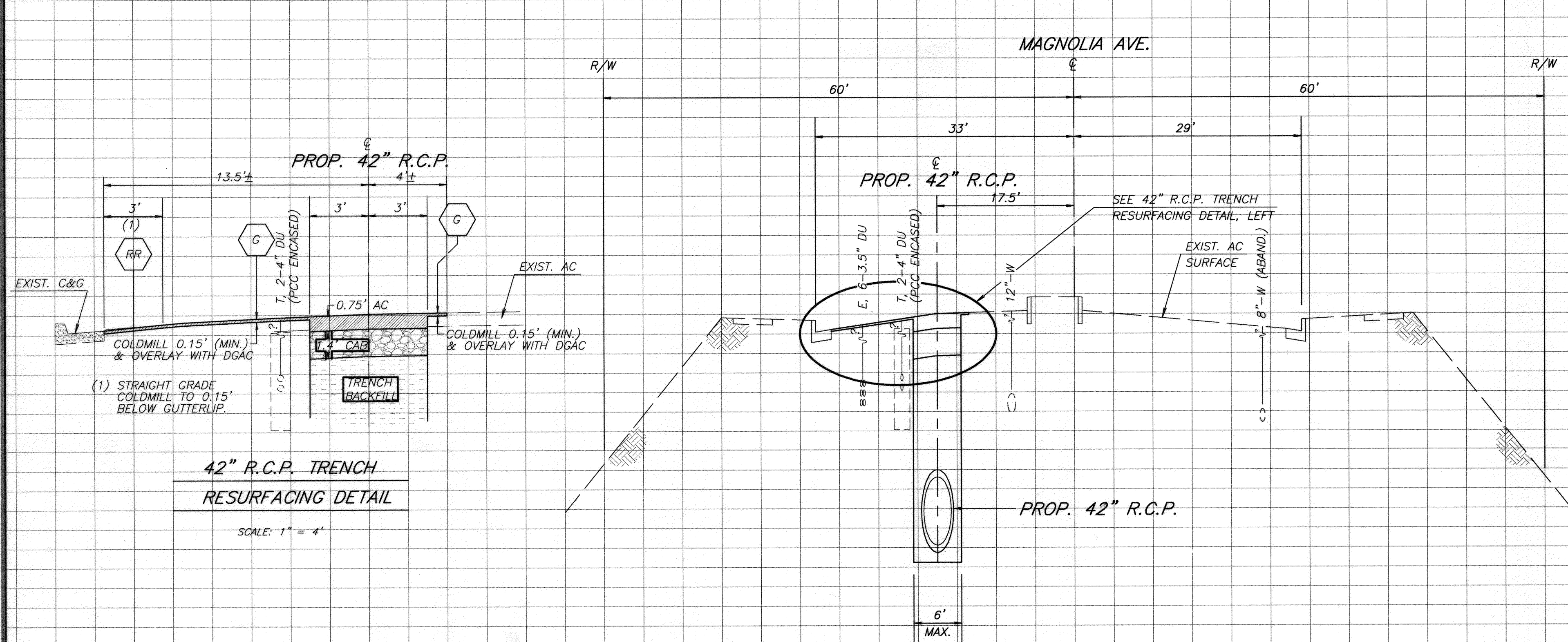
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	LLY	10/30/09
CONTRACT ADMINISTRATOR		
SURVEYOR		
TRAFFIC DIVISION		

MAGNOLIA AVENUE STORM DRAIN
FROM 350' TO 1030' NLY OF TERRACINA DR.
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACCT. NO.: 977092303-44030109
D-838
SHEET 1 OF 2

CONSTRUCTION LEGEND:

- 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. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- PRIOR TO CONSTRUCTING THE 18" RCP, THE CONTRACTOR SHALL CONST. TEMPORARY 18" HDPE BYPASS WITHIN EXIST. 42" RCP TO FACILITATE RELOCATION OF EXIST. UTILITIES.
- REMOVE AND REPLACE EXISTING CROSS GUTTER PER STD. DWG. 220.
- RELOCATE UTILITIES. ONE FOOT MINIMUM CLEARANCE. CONTRACTOR SHALL COMPLETE THE STORM DRAIN BY-PASS PRIOR TO RELOCATING THE INDICATED UTILITY.
- COLDMILL 0.15" IN DEPTH AND OVERLAY WITH 0.15" DGAC. EXACT LIMITS OF COLDMILLING AND AC OVERLAY IN RCC PARKING LOT "Y" TO BE DETERMINED IN THE FIELD BY THE INSPECTOR. COLD MILLING AND AC OVERLAY IN PARKING LOT "Y" SHALL BE DONE IMMEDIATELY AFTER COMPLETION OF TEQUESQUITE TRUNK SEWER IN PARKING LOT "Y". COLDMILLING AND AC OVERLAY IN MAGNOLIA AVE. SHALL BE DONE IMMEDIATELY UPON COMPLETION OF STORM DRAIN WORK IN MAGNOLIA AVENUE.
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BENCHMARK 16-H2
 P.K. NAIL AND CITY ENGINEER TAG IN THE BACK OF THE CATCH BASIN AT THE SOUTHEAST CORNER OF MARKET STREET AND FOURTEENTH STREET.
 1929 ELEVATION 834.478

STORM DRAIN CURVE DATA				
Δ	R	L	T	
2	14' 25' 13"	90.00'	22.65'	11.39'

ENGINEER IN RESPONSIBLE CHARGE

 LONNY LEW YOUNG
 R.C.E. No. 43216 expires 3/31/2010
 DATE 10/26/2009

MARK	REVISIONS	APPR.	DATE

**CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT**
 APPROVED BY: [Signature]
 PRINCIPAL ENGINEER: [Signature]
 CONTRACT ADMINISTRATOR: [Signature]
 SURVEYOR: [Signature]
 TRAFFIC DIVISION: [Signature]

**MAGNOLIA AVENUE
 STORM DRAIN**
 FROM 350' TO 1030' NLY OF TERRACINA DR.
 SCALE: AS SHOWN

ACCT. NO.: 9770923203-44030109
D-838
 SHEET 2 OF 2
 FILE NO.