

WARNING POWER
ONCOR ELECTRICAL CONDUIT
CALL 1-800-DIG-TESS
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF PROJECT

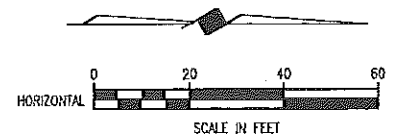
WARNING ONCOR GAS LINE
CALL 1-800-DIG-TESS
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF PROJECT

WARNING TELEVISION BURED CABLE
CALL 1-800-DIG-TESS
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF PROJECT

WARNING S.W. BELL BURED TELEPHONE CABLE
CALL 1-800-DIG-TESS
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF PROJECT

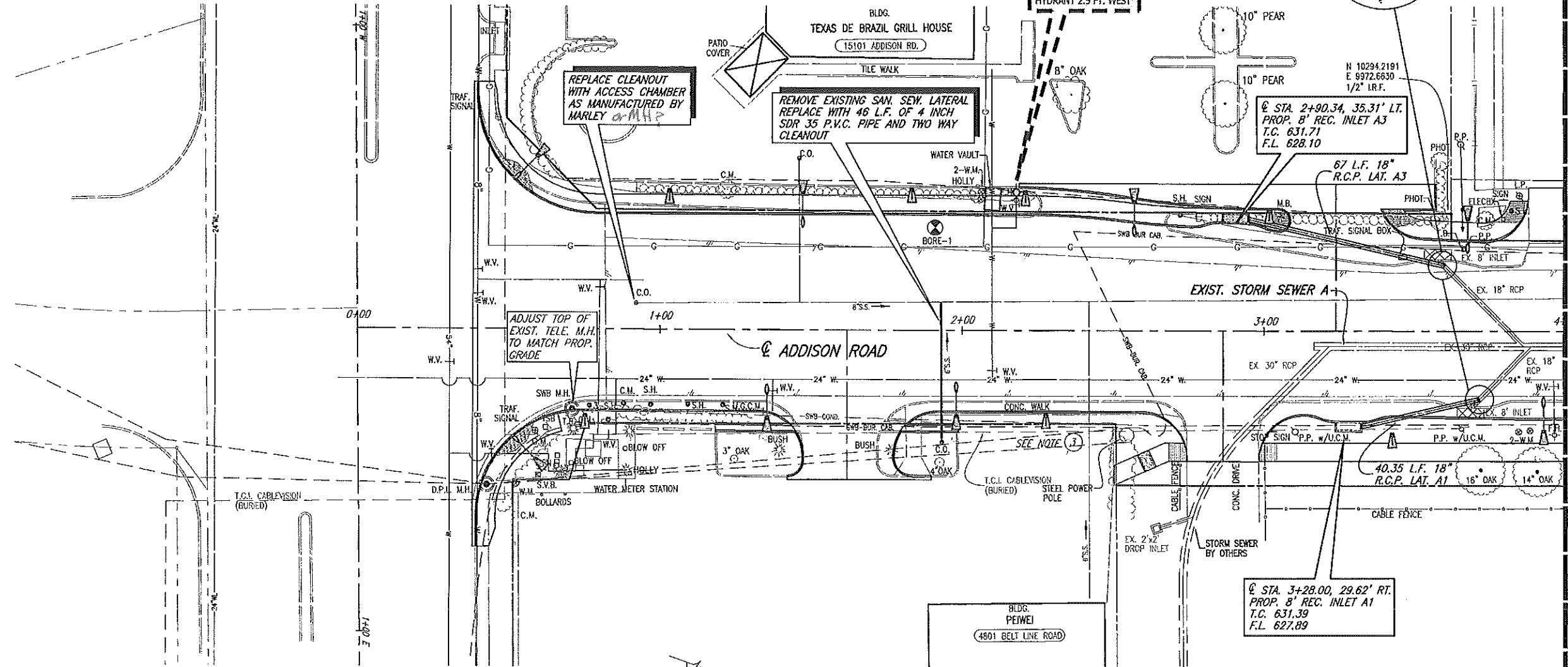


CALL US BEFORE YOU DIG



B.M.#19 "C" CUT IN CENTER OF INLET 150 FEET SOUTH OF BELT LINE RD., EAST OF INWOOD RD. ELEV. 630.59
T.B.M. AR-1 "C" CUT IN TOP OF VAULT NORTHEAST CORNER OF ADDISON RD. AND BELT LINE RD. ELEV. 634.80
T.B.M. AR-2 "C" CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD., @ STA. 9+87, 52 FEET RT. ELEV. 628.79

INLET REFERENCE POINT



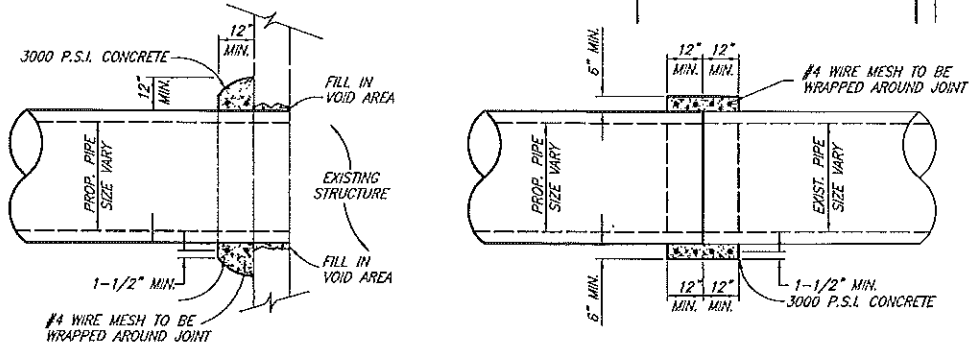
MATCH LINE STA. 4+00

EXISTING STORM SEWER PIPE REMOVAL



- NOTES:
- 1. CONNECTING TO EXISTING STORM SEWER & REMOVAL OF EXISTING STORM SEWER PIPE, INLETS AND OTHER APPURTENANCES IS SUBSIDIARY TO PROPOSED STORM SEWER SYSTEM INSTALLATION.
 - 2. USED 1978 ADDISON ROAD AND KELLER SPRINGS CONSTRUCTION PLANS TO SHOW APPROXIMATE LOCATION AND DEPTH OF EXISTING STORM SEWER SHOWN IN THE PLANS, ALONG WITH LOCATING AND MEASURING THE DEPTH OF EXISTING STORM SEWER STRUCTURES.
 - 3. POSITIVE FLOW FROM EXIST. FLUME SHALL BE MAINTAINED.

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DETAIL OF PIPE CONNECTION W/ EXISTING PIPE OR STRUCTURE

INSIDE JOINT SHALL BE CONCRETE MORTAR IF PIPE SIZES ARE DIFFERENT

TOWN OF ADDISON, TEXAS

**ADDISON ROAD IMPROVEMENTS
BELT LINE ROAD TO ARAPAHO ROAD PHASE I
STORM SEWER PLAN - STA. 0+00 TO STA. 4+00**

BIRKHOFF, HENDRICKS & CONWAY L. L. P.
CONSULTING ENGINEERS
Dallas, Texas

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION AND PERMIT PURPOSES ONLY.
DATE: 10/31/06



DESIGNED BY: J.W.B.	PROJECT: 2002_102	SHEET NO. 36
DRAWN BY: R.J.L.	DATE: SEPTEMBER 2006	OF 68 SHEETS

WARNING ONCOR ELECTRICAL CONDUIT CALL 1-800-DIG-TESS 72 HOURS PRIOR TO EXCAVATION IN VICINITY OF PROJECT

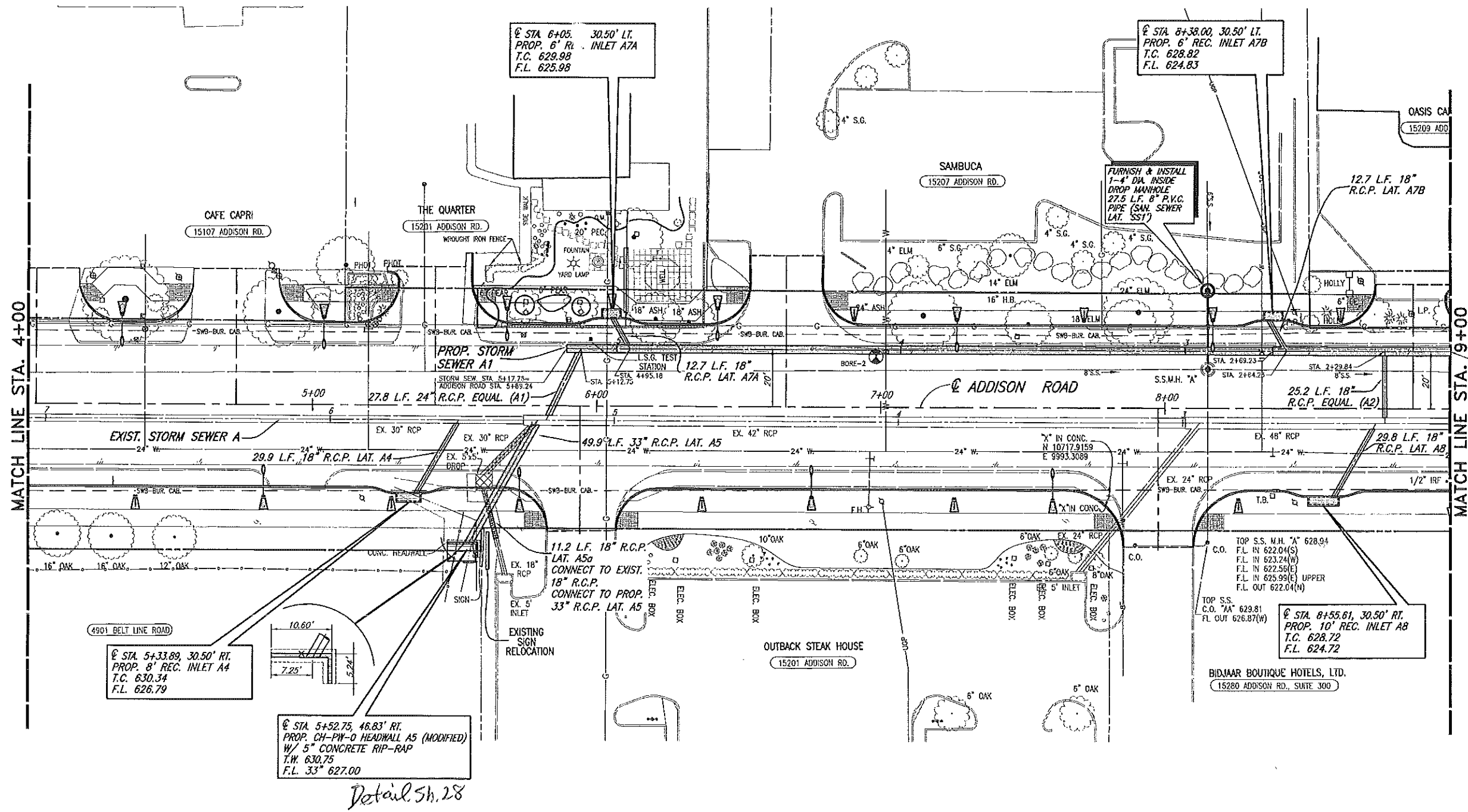
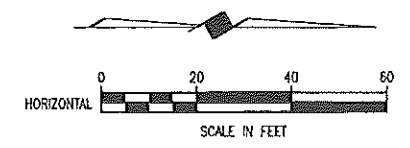
WARNING ONCOR GAS LINE CALL 1-800-DIG-TESS 72 HOURS PRIOR TO EXCAVATION IN VICINITY OF PROJECT

WARNING TELEVISION BURIED CABLE CALL 1-800-DIG-TESS 72 HOURS PRIOR TO EXCAVATION IN VICINITY OF PROJECT

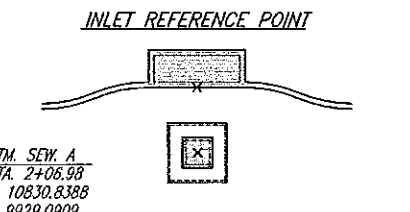
WARNING S.W. BELL BURIED TELEPHONE CABLE CALL 1-800-DIG-TESS 72 HOURS PRIOR TO EXCAVATION IN VICINITY OF PROJECT



CALL US BEFORE YOU DIG



- B.M. #19 "C" CUT IN CENTER OF INLET 150 FEET SOUTH OF BELT LINE RD., EAST OF INWOOD RD. ELEV. 630.59
- T.B.M. AR-1 "C" CUT IN TOP OF VAULT NORTHEAST CORNER OF ADDISON RD. AND BELT LINE RD. ELEV. 634.80
- T.B.M. AR-2 "C" CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD., @ STA. 9+87, 52 FEET RT. ELEV. 628.79



EXISTING STORM SEWER PIPE REMOVAL

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TOWN OF ADDISON, TEXAS

ADDISON ROAD IMPROVEMENTS

BELT LINE ROAD TO ARAPAHO ROAD PHASE I

STORM SEWER PLAN - STA. 4+00 TO STA. 9+00

BIRKHOFF, HENDRICKS & CONWAY L.L.P. CONSULTING ENGINEERS Dallas, Texas

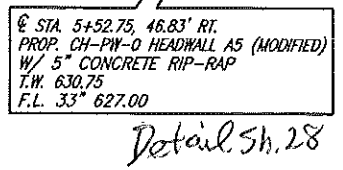
DESIGNED BY: J.W.B. PROJECT: 2002 102 SHEET NO. 37

DRAWN BY: R.J.L. DATE: SEPTEMBER 2005 OF 68 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES

John Birkhoff

DATE: 10/13/06



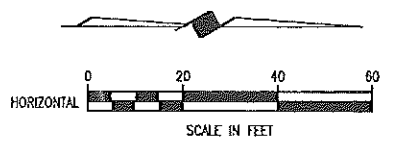
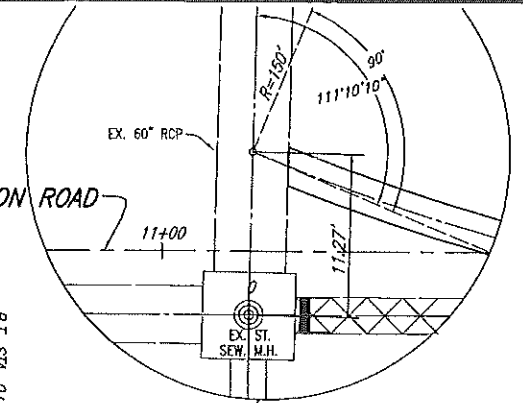
REVISIONS: 10/24/06 - RLOWE
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PLOT SCALE: 1:1
PLOT STYLE: 1:1x17.ctb
PLOTTED BY: RLOWE ON 10/25/2006

WARNING
ONCOR ELECTRICAL CONDUIT
CALL 1-800-DIG-TESS
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF PROJECT

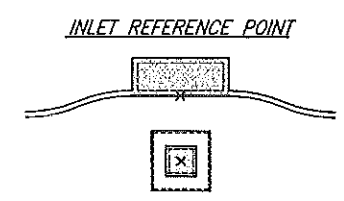
WARNING
ONCOR GAS LINE
CALL 1-800-DIG-TESS
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF PROJECT

WARNING
TELEVISION
BURIED CABLE
CALL 1-800-DIG-TESS
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF PROJECT

WARNING
S.W. BELL BURIED
TELEPHONE CABLE
CALL 1-800-DIG-TESS
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF PROJECT



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- T.B.M. AR-2 "C" CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD., STA. 9+87, 52 FEET RT. ELEV. 628.79
- T.B.M. AR-3 "C" CUT AT END OF RETAINING WALL, NORTH OF LINDBERGH DR., WEST SIDE OF ADDISON RD., STA. 18+76, 45 FEET LT. ELEV. 635.38



EXISTING STORM SEWER PIPE REMOVAL

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TOWN OF ADDISON, TEXAS

ADDISON ROAD IMPROVEMENTS
BELT LINE ROAD TO ARAPAHO ROAD PHASE I
STORM SEWER PLAN - STA. 9+00 TO STA. 14+00

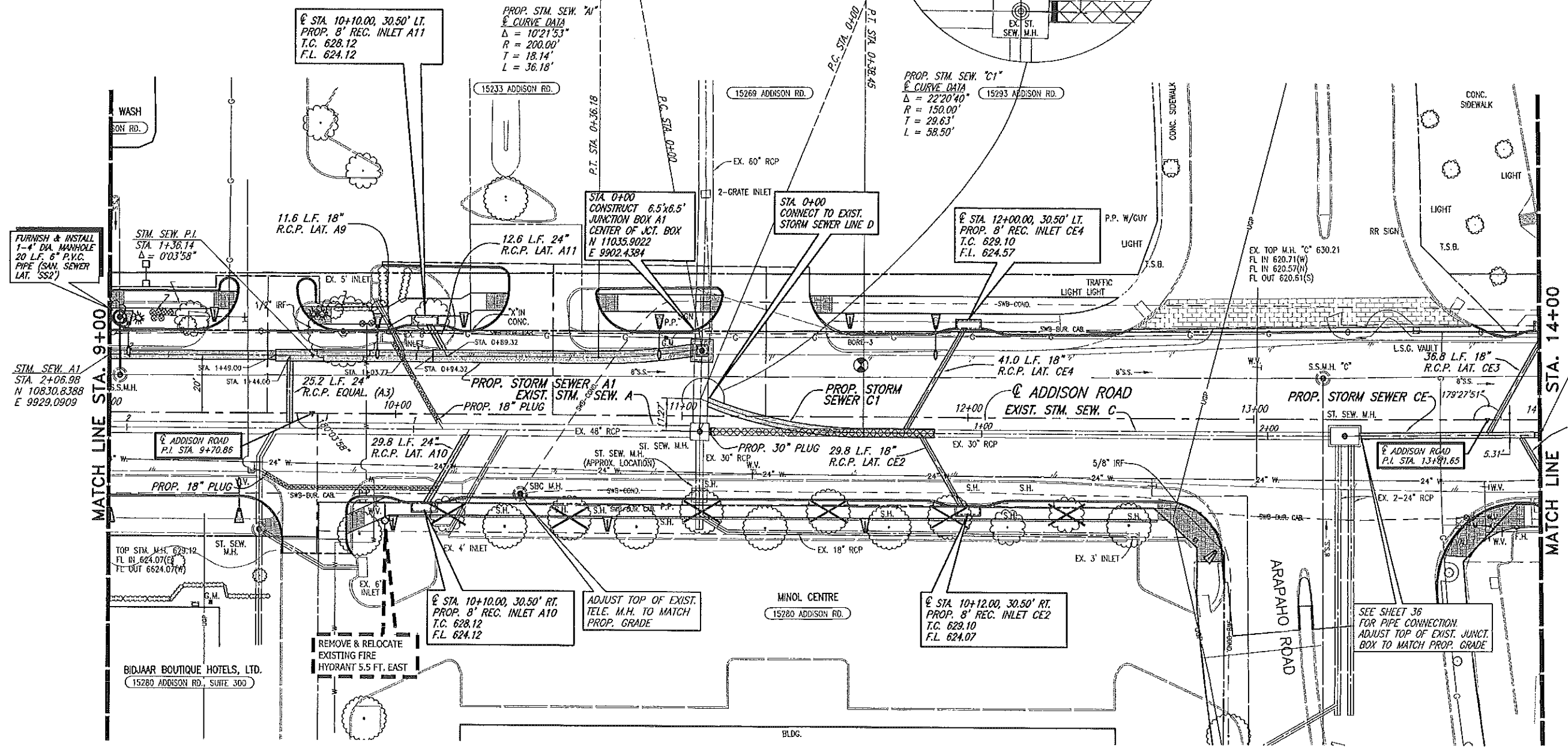
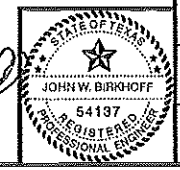
BIRKHOFF, HENDRICKS & CONWAY L. L. P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 2002 102	SHEET NO. 38
DRAWN BY: R.J.L.	DATE: SEPTEMBER 2006	OF 68 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMITS PURPOSES

John W. Birkhoff

DATE: 10/21/06



FURNISH & INSTALL 1-4" DIA. MANHOLE 20 L.F. 6" P.V.C. PIPE (SAM, SEWER LAT. S52)

STM. SEW. A1 STA. 2+06.98 N 108.30.8388 E 9929.0909

STA. 10+10.00, 30.50' LT. PROP. 8" REC. INLET A11 T.C. 628.12 F.L. 624.12

PROP. STM. SEW. "A1" CURVE DATA
 $\Delta = 10^{\circ}21'53"$
 $R = 200.00'$
 $T = 18.14'$
 $L = 36.18'$

PROP. STM. SEW. "C1" CURVE DATA
 $\Delta = 22^{\circ}20'40"$
 $R = 150.00'$
 $T = 29.63'$
 $L = 58.50'$

STA. 0+00 CONSTRUCT 6.5'x6.5' JUNCTION BOX A1 CENTER OF JCT. BOX N 110.35.9022 E 9902.4384

STA. 12+00.00, 30.50' LT. PROP. 8" REC. INLET CE4 T.C. 629.10 F.L. 624.57

STM. SEW. CE STA. 2+95.11 N 113.30.3857 E 9895.7916

13.7 L.F. 18" R.C.P. LAT. CE1

STA. 10+10.00, 30.50' RT. PROP. 8" REC. INLET A10 T.C. 628.12 F.L. 624.12

STA. 10+12.00, 30.50' RT. PROP. 8" REC. INLET CE2 T.C. 629.10 F.L. 624.07

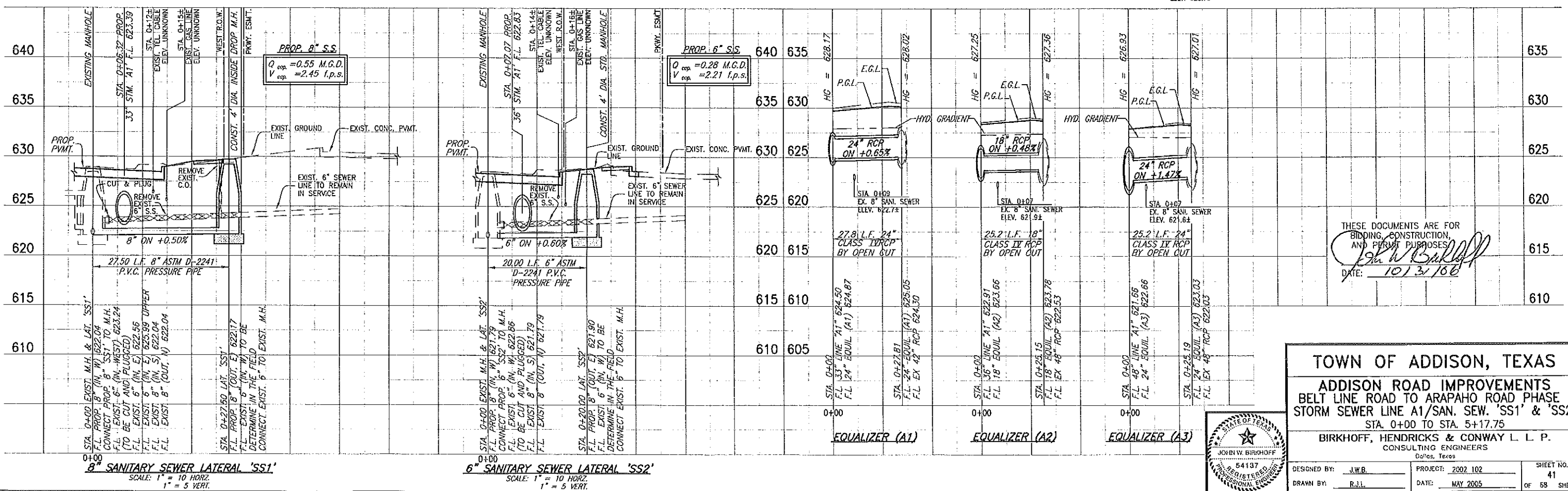
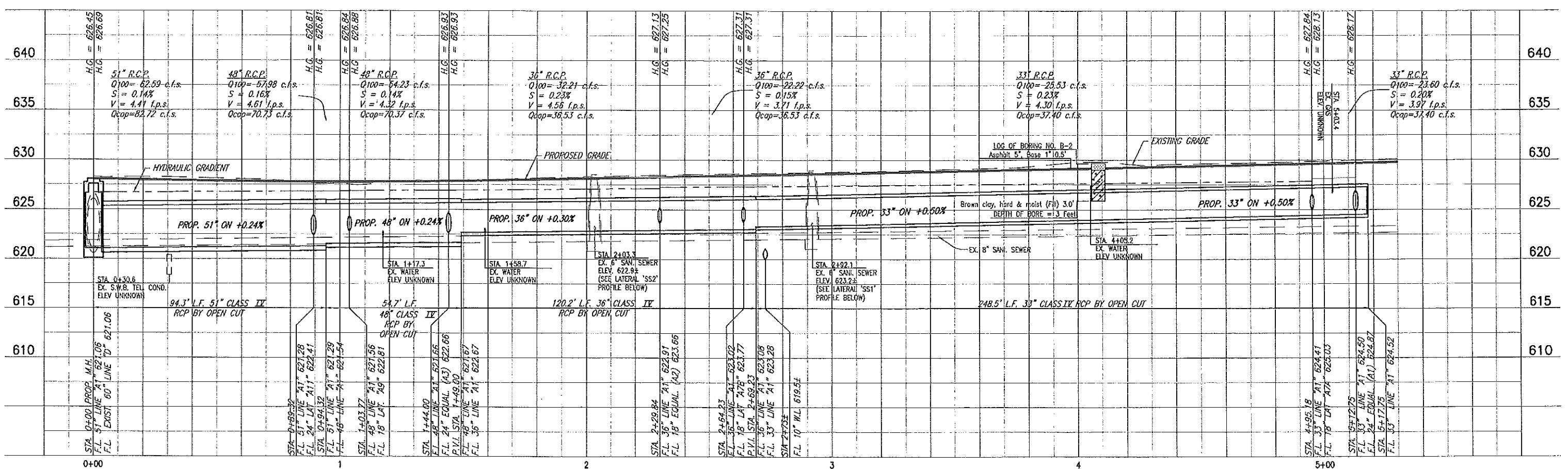
SEE SHEET 36 FOR PIPE CONNECTION. ADJUST TOP OF EXIST. JUNCT. BOX TO MATCH PROP. GRADE.

REMOVE & RELOCATE EXISTING FIRE HYDRANT 5.5 FT. EAST

ADJUST TOP OF EXIST. TELE. M.H. TO MATCH PROP. GRADE

MINOL CENTRE 15280 ADDISON RD.

BIDJAAR BOUTIQUE HOTELS, LTD. 15280 ADDISON RD., SUITE 300



T.B.M. AR-1 "C" CUT IN TOP OF VAULT NORTHEAST CORNER OF ADDISON RD. AND BELT LINE RD. ELEV. 634.80

T.B.M. AR-2 "C" CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD., @ STA. 9+87.52 FEET RT. ELEV. 628.79

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THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

J. W. Birkhoff
 DATE: 10/13/06



TOWN OF ADDISON, TEXAS

ADDISON ROAD IMPROVEMENTS
 BELT LINE ROAD TO ARAPAHO ROAD PHASE I
 STORM SEWER LINE A1/SAN. SEW. 'SS1' & 'SS2'
 STA. 0+00 TO STA. 5+17.75

BIRKHOFF, HENDRICKS & CONWAY L. L. P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 2002 102 SHEET NO. 41
 DRAWN BY: R.J.L. DATE: MAY 2005 OF 68 SHEETS

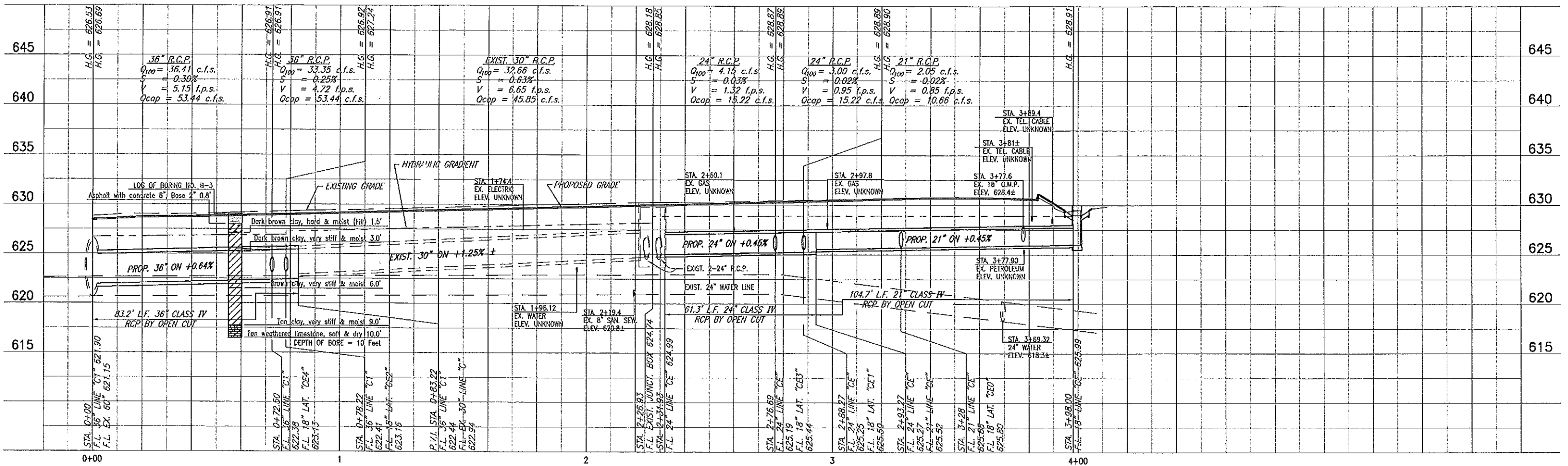
PLotted BY: RUMBE ON 10/24/2006

Plot style: 11x17.dwg

Plot scale: 1"

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REVISED: 10/24/05 - RUMBE

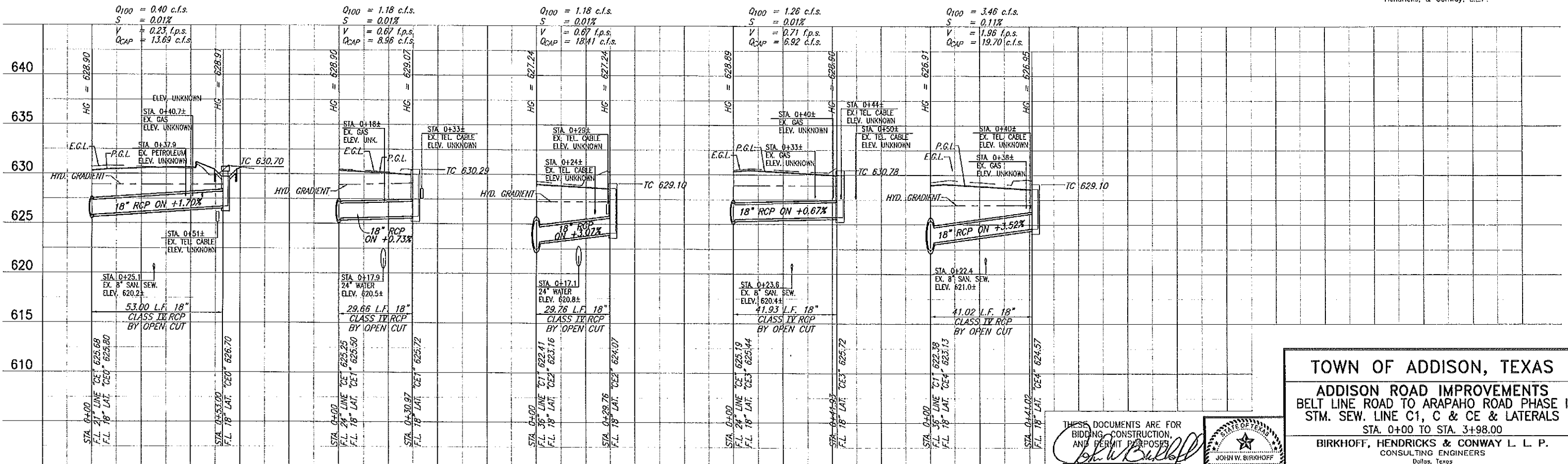


0+00 1 2 3 4+00
 PROPOSED STORM SEWER LINE C1 EXISTING STORM SEWER LINE C PROPOSED STORM SEWER LINE CE

STORM SEWER LINE C1 & PROPOSED CE

T.B.M. AR-2 "C" CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD., @ STA. 9+87, 52 FEET RT. ELEV. 626.79

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LATERAL "CE0" LATERAL "CE1" LATERAL "CE2" LATERAL "CE3" LATERAL "CE4"

THESE DOCUMENTS ARE FOR BIDDING CONSTRUCTION AND PERMIT PURPOSES
 DATE: 10/31/06



TOWN OF ADDISON, TEXAS
ADDISON ROAD IMPROVEMENTS
 BELT LINE ROAD TO ARAPAHO ROAD PHASE I
 STM. SEW. LINE C1, C & CE & LATERALS
 STA. 0+00 TO STA. 3+98.00
BIRKHOFF, HENDRICKS & CONWAY L. L. P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 2002 102 SHEET NO. 42
 DRAWN BY: R.J.L. DATE: SEPTEMBER 2006 OF 68 SHEETS

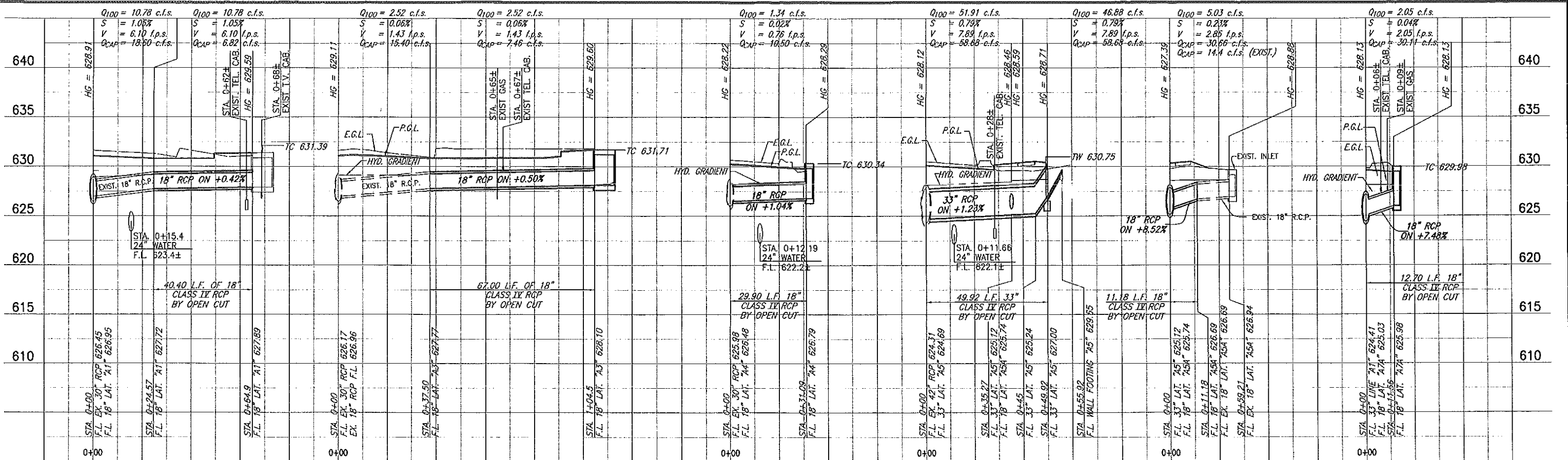
REVISION: 9/19/06 - RLOWE

PROJECT: Addison\2002102\PHASE1\sheet\2002102C43_SIS.dwg

PLOT SCALE: 1:1

PLOT STYLE: 11x17.ctb

PLOTTED BY: RLOWE ON 9/28/2006



LATERAL "A1"

LATERAL "A3"

LATERAL "A4"

LATERAL "A5"

LATERAL "A5A"

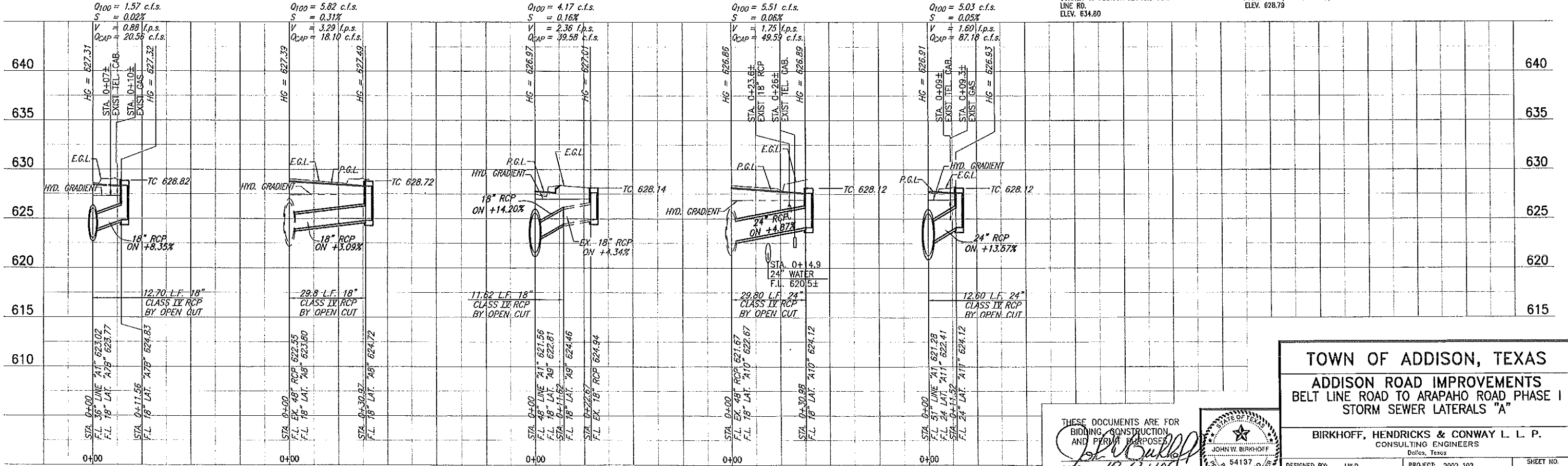
LATERAL "A7A"

B.M.#19 "C" CUT IN CENTER OF INLET 150 FEET SOUTH OF BELT LINE RD., EAST OF INWOOD RD. ELEV. 630.59

T.B.M. AR-1 "C" CUT IN TOP OF VAULT NORTHEAST CORNER OF ADDISON RD. AND BELT LINE RD. ELEV. 634.80

T.B.M. AR-2 "C" CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD., C STA. 9+87, 52 FEET RT. ELEV. 628.79

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LATERAL "A7B"

LATERAL "A8"

LATERAL "A9"

LATERAL "A10"

LATERAL "A11"

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[Signature]

DATE: 10/31/06



TOWN OF ADDISON, TEXAS

ADDISON ROAD IMPROVEMENTS

BELT LINE ROAD TO ARAPAHO ROAD PHASE I

STORM SEWER LATERALS "A"

BIRKHOFF, HENDRICKS & CONWAY L. L. P.

CONSULTING ENGINEERS

Dallas, Texas

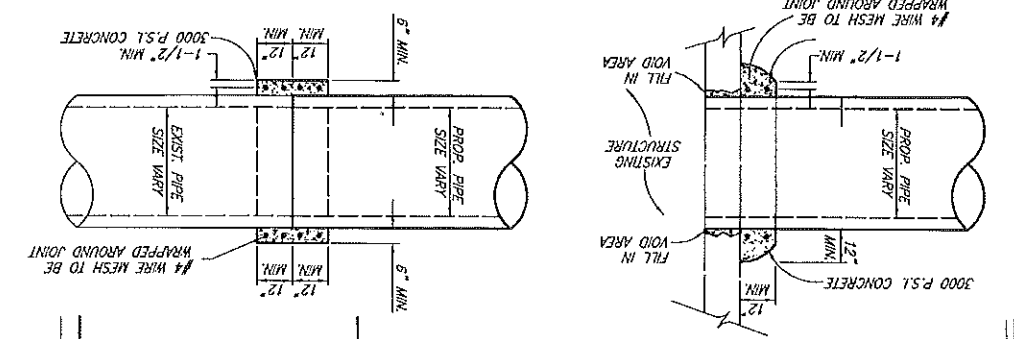
DESIGNED BY: J.W.B. PROJECT: 2002 102 SHEET NO. 43

DRAWN BY: R.J.L. DATE: SEPTEMBER 2006 OF 68 SHEETS



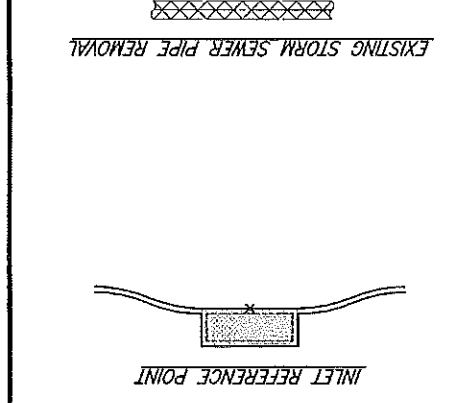
DATE: 10/31/06
 THESE DOCUMENTS ARE FOR
 BIDDING CONSTRUCTION
 AND PERMIT PURPOSES
 JOHN W. BIRKHOFF
 PROFESSIONAL ENGINEER
 STATE OF TEXAS
 NO. 64187

**DETAIL OF PIPE CONNECTION
 W/ EXISTING PIPE OR STRUCTURE**

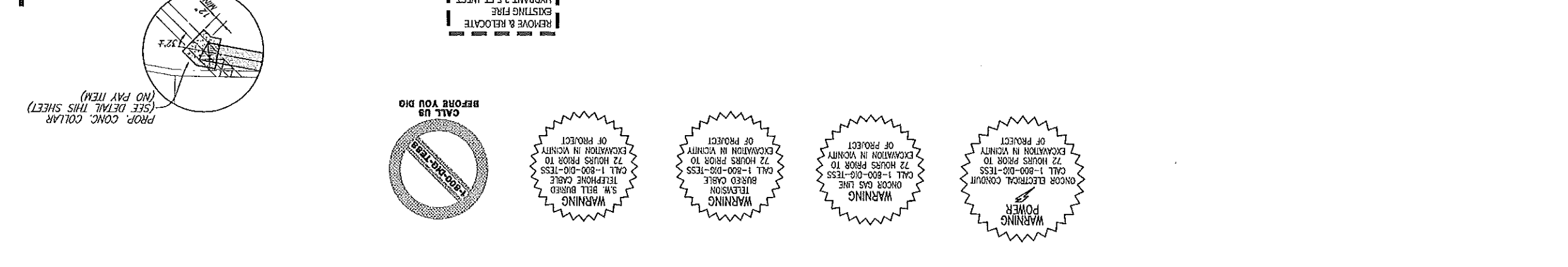
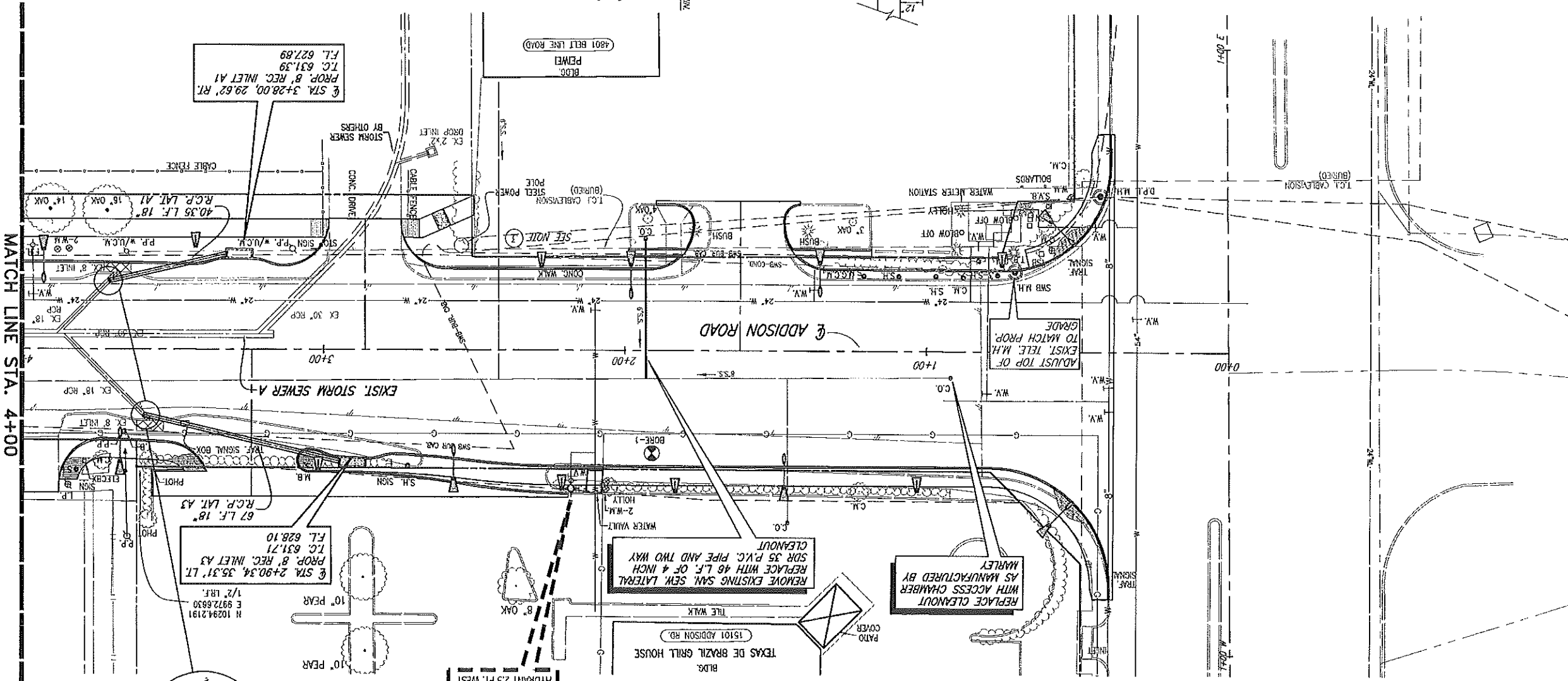
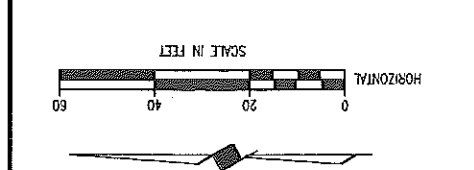


INSIDE JOINT SHALL BE CONCRETE MORTAR IF PIPE SIZES ARE DIFFERENT

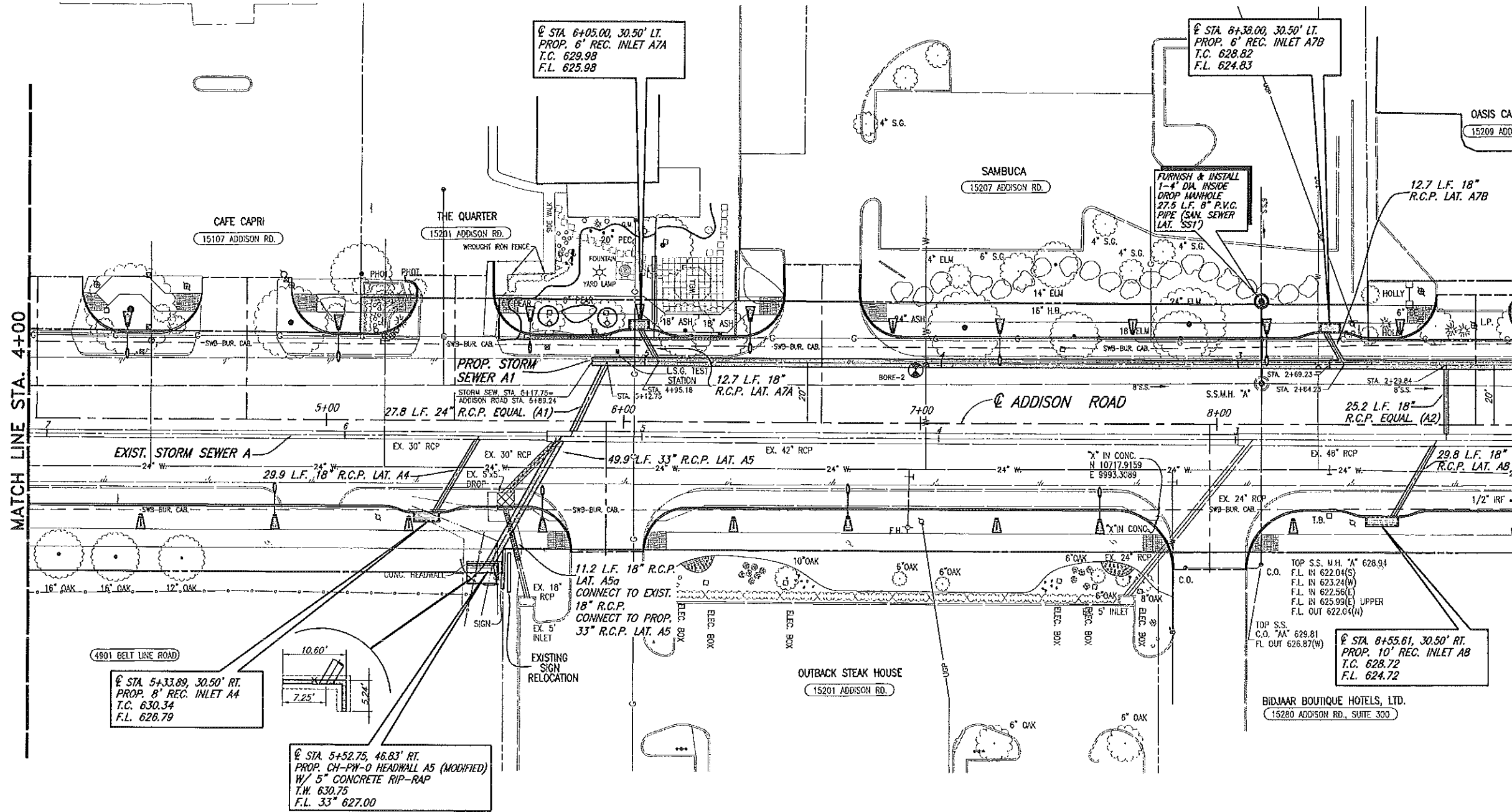
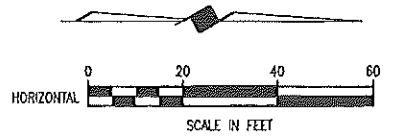
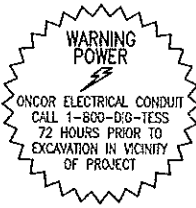
Notes:
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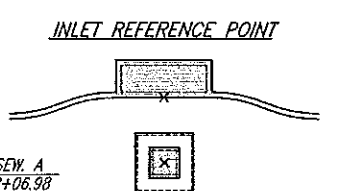
1.84 AR-1 'C' CUT IN TOP OF VAULT NORTHEAST CORNER OF ADDISON RD. AND BELT LINE RD.
 ELEV. 634.80
 1.84 AR-2 'C' CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD. @ STA. 9+87.52 FEET RT.
 ELEV. 628.79



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B.M. #19 '□' CUT IN CE... OF INLET 150 FEET SOUTH OF BELT LINE RD., EAST OF INWOOD RD. ELEV. 630.59



EXISTING STORM SEWER PIPE REMOVAL

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TOWN OF ADDISON, TEXAS
ADDISON ROAD IMPROVEMENTS
BELT LINE ROAD TO ARAPAHO ROAD PHASE I
STORM SEWER PLAN - STA. 4+00 TO STA. 9+00
BIRKHOFF, HENDRICKS & CONWAY L.L.P.
CONSULTING ENGINEERS
Dallas, Texas
DESIGNED BY: J.W.B.
DRAWN BY: R.J.L.
PROJECT: 2002 102
DATE: SEPTEMBER 2005
SHEET NO. 37 OF 68 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES. DATE: 10/13/06



REVISIONS: 10/24/06 - RLOWE

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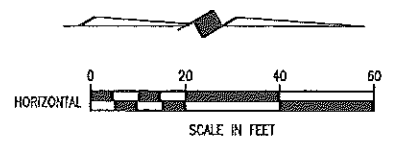
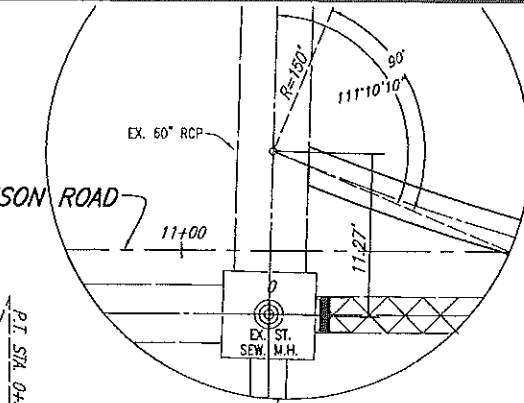
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OF PROJECT

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S.W. BELL BURIED
TELEPHONE CABLE
CALL 1-800-DIG-TESS
72 HOURS PRIOR TO
EXCAVATION IN VICINITY
OF PROJECT



CALL US
BEFORE YOU DIG

ADDISON ROAD



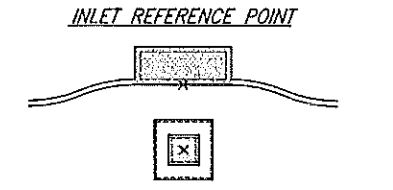
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- T.B.M. AR-3 "C" CUT AT END OF RETAINING WALL, NORTH OF LINDBERGH DR., WEST SIDE OF ADDISON RD., STA. 18+76, 45 FEET LT. ELEV. 635.38



TREE REMOVAL

STM. SEW. CE
STA. 2+95.11
N 11330.3857
E 9895.7916

13.7 L.F. 18" R.C.P. LAT. CE1



EXISTING STORM SEWER PIPE REMOVAL

- NOTES:
- CONNECTING TO EXISTING STORM SEWER & REMOVAL OF EXISTING STORM SEWER PIPE, INLETS AND OTHER APPURTENANCES IS SUBSIDIARY TO PROPOSED STORM SEWER SYSTEM INSTALLATION.
 - USED 1978 ADDISON ROAD AND KELLER SPRINGS CONSTRUCTION PLANS TO SHOW APPROXIMATE LOCATION AND DEPTH OF EXISTING STORM SEWER SHOWN IN THE PLANS, ALONG WITH LOCATING AND MEASURING THE DEPTH OF EXISTING STORM SEWER STRUCTURES.

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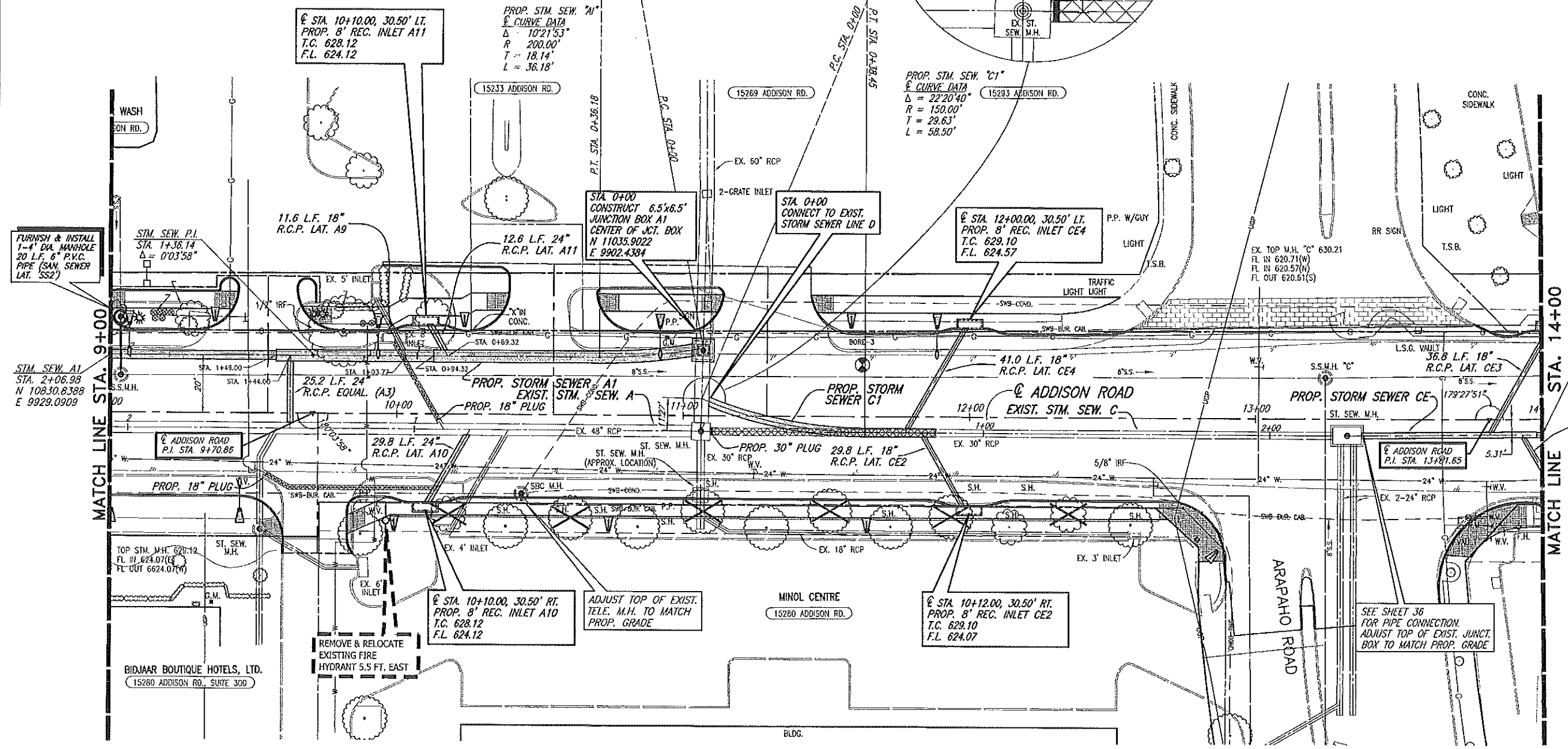
TOWN OF ADDISON, TEXAS

ADDISON ROAD IMPROVEMENTS
BELT LINE ROAD TO ARAPAHO ROAD PHASE I
STORM SEWER PLAN - STA. 9+00 TO STA. 14+00

BIRKHOFF, HENDRICKS & CONWAY L. L. P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 2002.102 SHEET NO. 38
DRAWN BY: R.J.L. DATE: SEPTEMBER 2006 OF 68 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMITS PURPOSES
DATE: 10/10/06



STM. SEW. A1
STA. 2+08.98
N 10830.8388
E 9929.0909

ADDISON ROAD
P.I. STA. 9+70.88

TOP STM. M.H. 628.12
FL IN 624.07(E)
FL OUT 624.07(W)

BIDJAAR BOUTIQUE HOTELS, LTD.
15280 ADDISON RD., SUITE 300

REMOVE & RELOCATE
EXISTING FIRE
HYDRANT 5.5 FT. EAST

ADJUST TOP OF EXIST.
TELE. M.H. TO MATCH
PROP. GRADE

PROP. 30" PLUG 29.8 L.F. 18" R.C.P. LAT. CE2

PROP. 8" REC. INLET CE2
T.C. 629.10
F.L. 624.07

STA. 10+10.00, 30.50' LT.
PROP. 8" REC. INLET A11
T.C. 628.12
F.L. 624.12

PROP. STM. SEW. "A1"
CURVE DATA
Δ = 10°21'53"
R = 200.00'
T = 18.14'
L = 36.18'

STA. 0+00
CONSTRUCT 6.5'x6.5'
JUNCTION BOX A1
CENTER OF JCT. BOX
N 11035.9022
E 9902.4384

STA. 0+00
CONNECT TO EXIST.
STORM SEWER LINE D

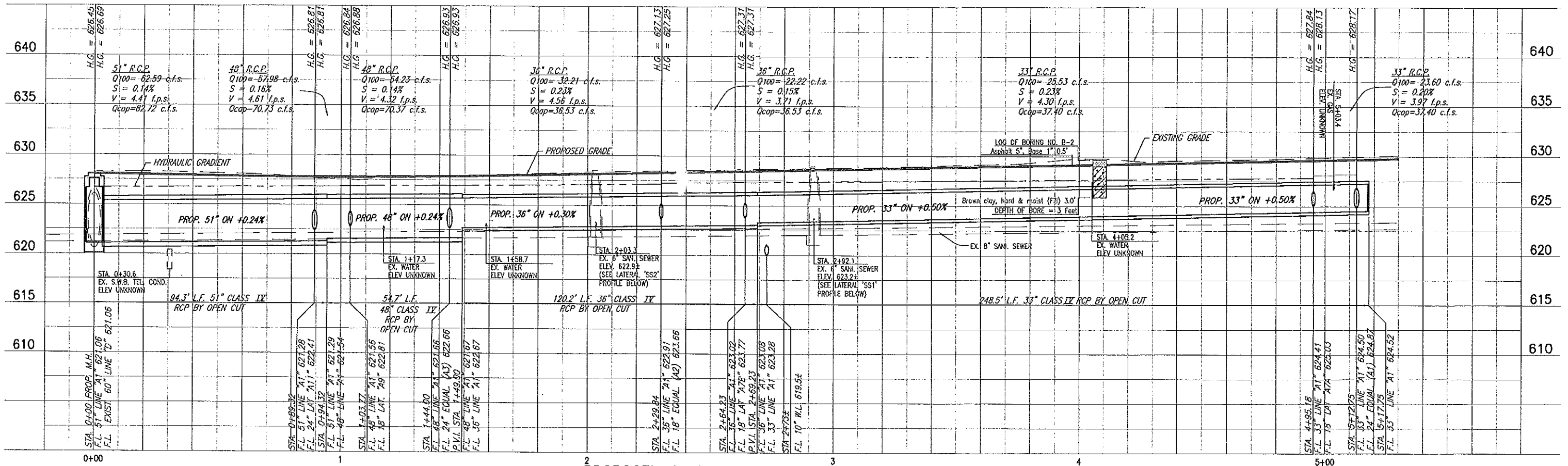
PROP. STM. SEW. "C1"
CURVE DATA
Δ = 22°20'40"
R = 150.00'
T = 29.63'
L = 58.50'

STA. 12+00.00, 30.50' LT.
PROP. 8" REC. INLET CE4
T.C. 629.10
F.L. 624.57

EX. TOP M.H. "C" 630.21
FL IN 620.71(W)
FL IN 620.57(W)
FL OUT 620.61(S)

MATCH LINE STA. 9+00

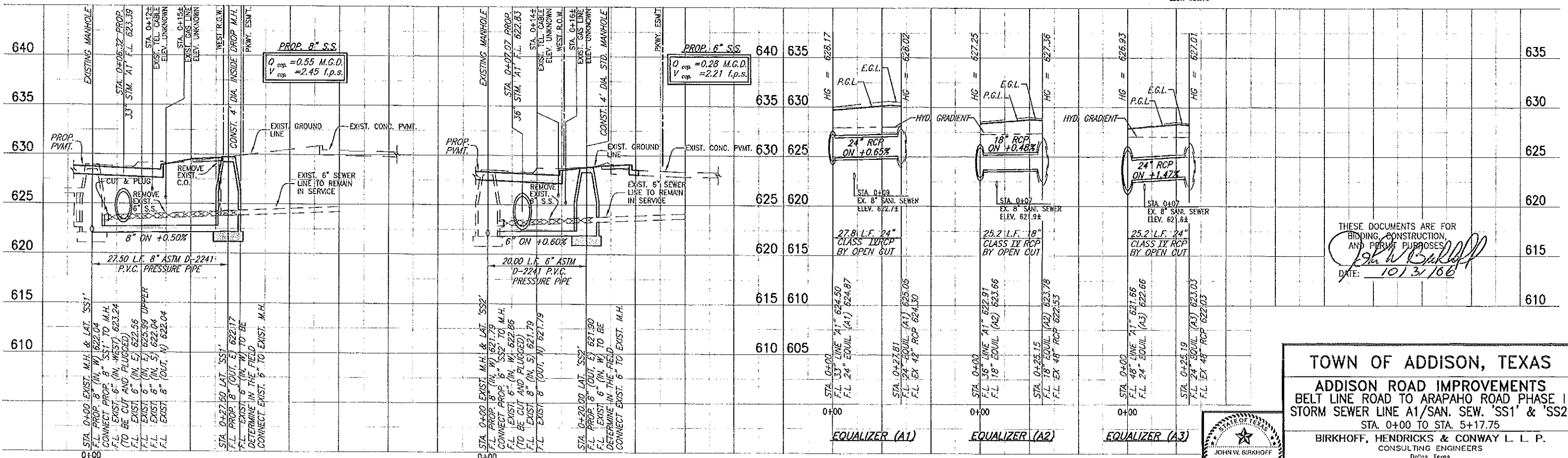
MATCH LINE STA. 14+00



T.B.M. AR-1 "C" CUT IN TOP OF VAULT NORTHEAST CORNER OF ADDISON RD. AND BELT LINE RD. ELEV. 634.80

T.B.M. AR-2 "C" CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD., @ STA. 9+87, 52 FEET RT. ELEV. 628.79

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TOWN OF ADDISON, TEXAS

ADDISON ROAD IMPROVEMENTS
 BELT LINE ROAD TO ARAPAHO ROAD PHASE I,
 STORM SEWER LINE A1/SAN. SEW. 'SS1' & 'SS2'
 STA. 0+00 TO STA. 5+17.75

BIRKHOFF, HENDRICKS & CONWAY L. L. P.
 CONSULTING ENGINEERS
 Dallas, Texas

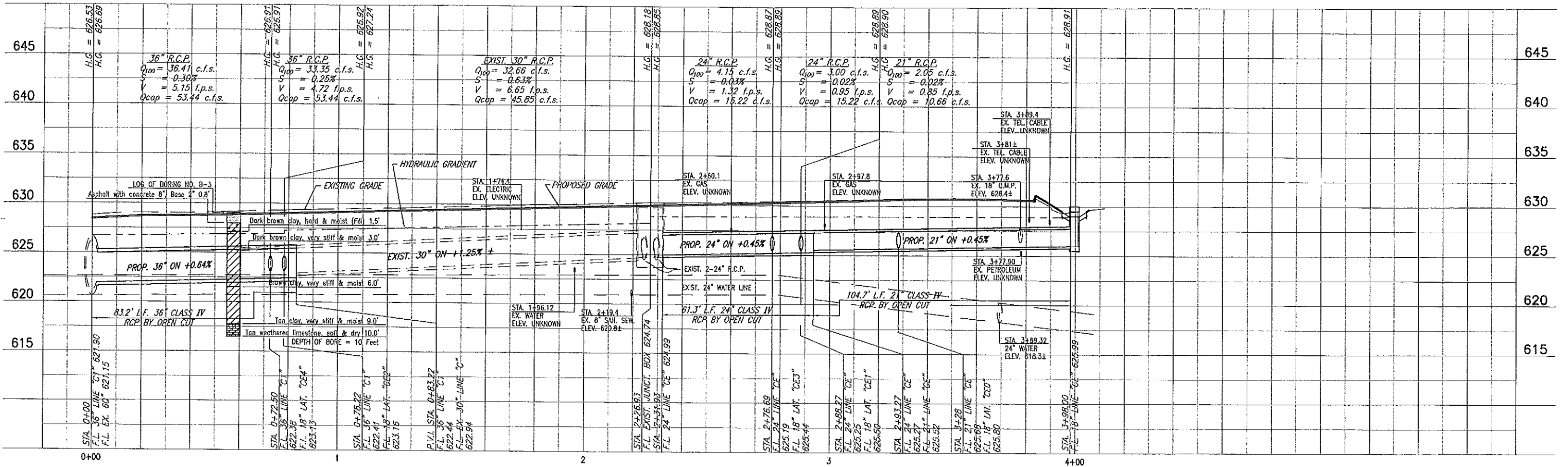
DESIGNED BY: J.W.B.	PROJECT: 2002_102	SHEET NO. 41
DRAWN BY: R.J.L.	DATE: MAY 2005	OF 68 SHEETS

PLotted BY: BLUME ON 10/24/2006

Plot SCALE: 1:1

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REVISED: 10/24/06 - BLUME



PROPOSED STORM SEWER LINE C1

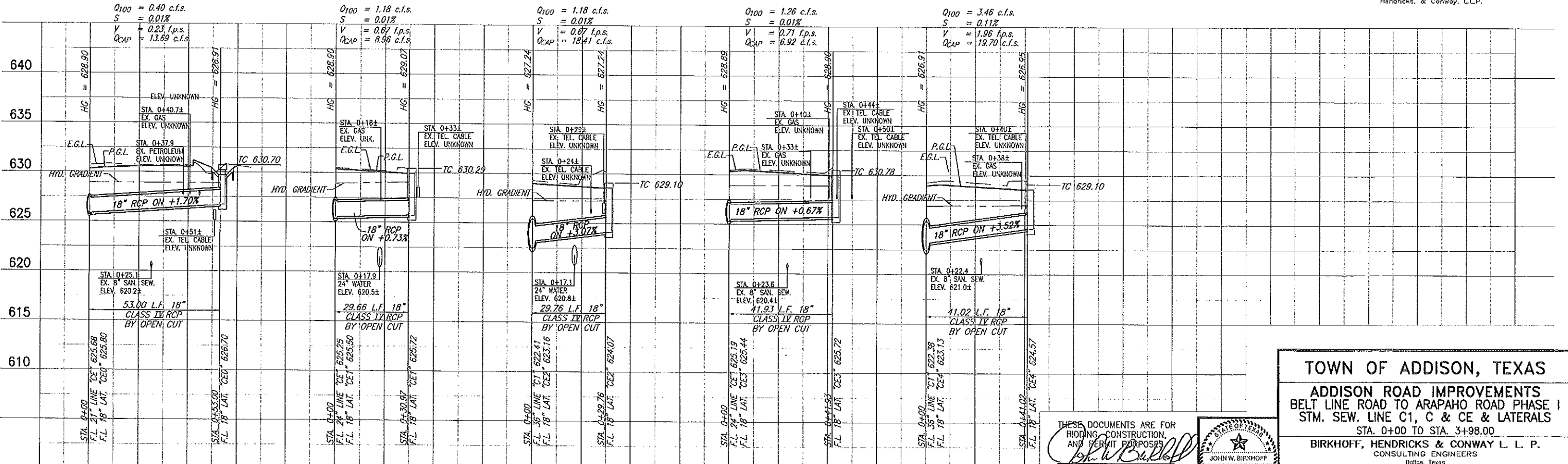
EXISTING STORM SEWER LINE C

PROPOSED STORM SEWER LINE CE

STORM SEWER LINE C1 & PROPOSED CE

T.B.M. AR-2 "C" CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD., @ STA. 9+87, 52 FEET RT. ELEV. 628.79

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LATERAL "CE0"

LATERAL "CE1"

LATERAL "CE2"

LATERAL "CE3"

LATERAL "CE4"

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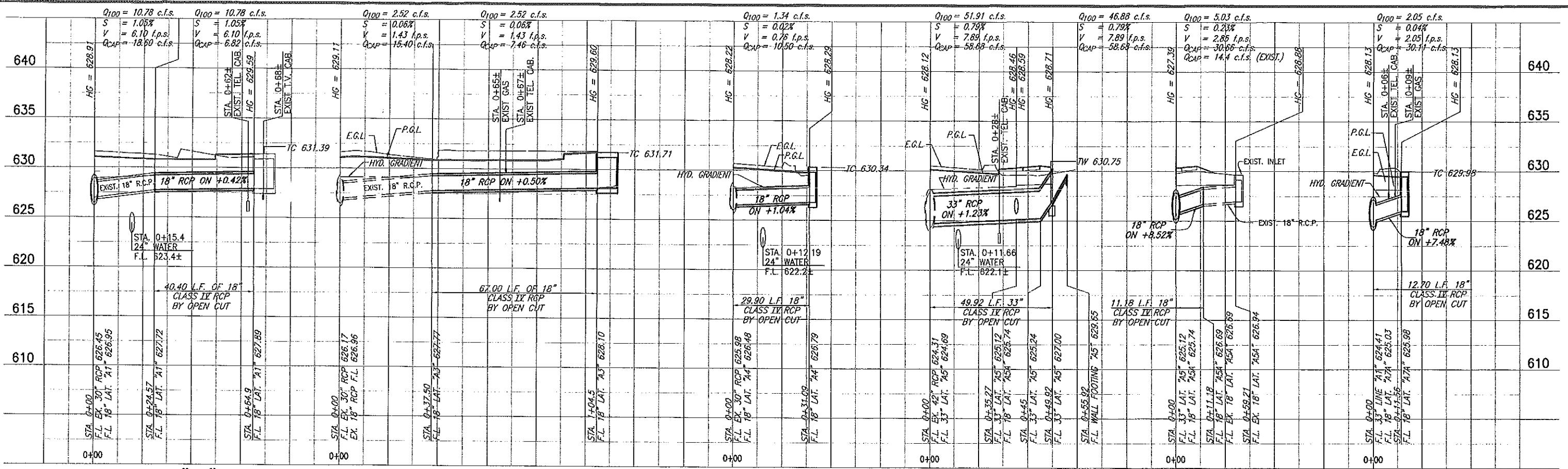
TOWN OF ADDISON, TEXAS

ADDISON ROAD IMPROVEMENTS
 BELT LINE ROAD TO ARAPAHO ROAD PHASE I
 STM. SEW. LINE C1, C & CE & LATERALS
 STA. 0+00 TO STA. 3+98.00

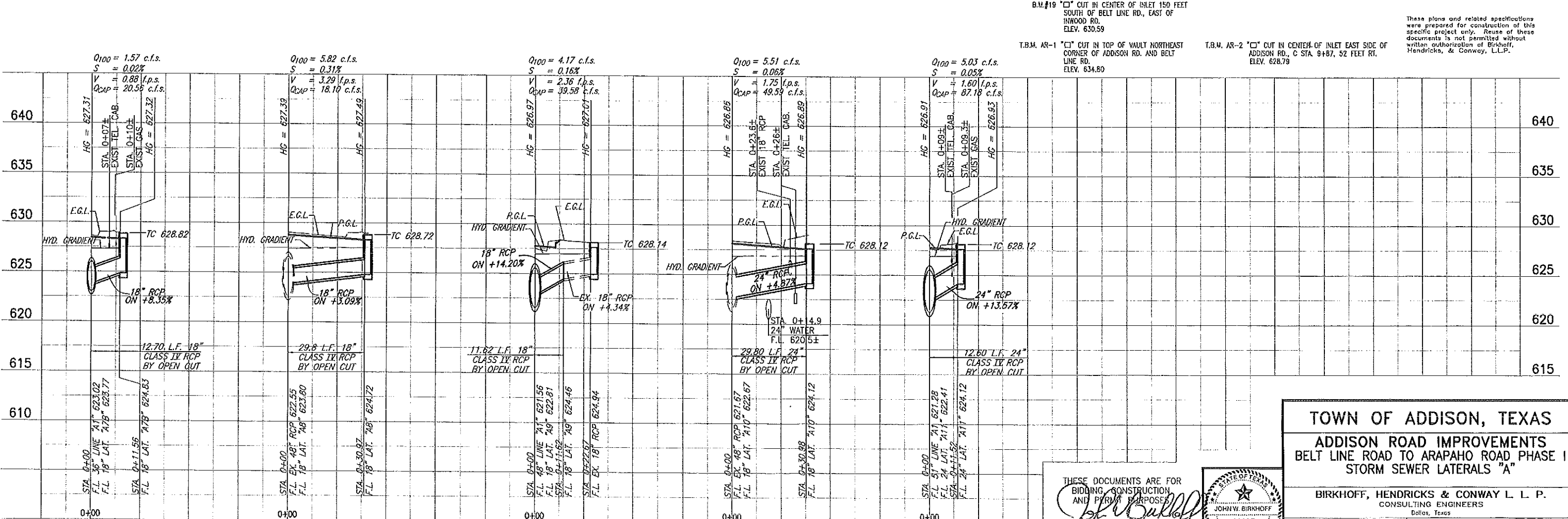
BIRKHOFF, HENDRICKS & CONWAY L. L. P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 2002 102 SHEET NO. 42
 DRAWN BY: R.J.L. DATE: SEPTEMBER 2006 OF 68 SHEETS

REVISIONS: 9/19/06 - RLOWE
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 PLOT SCALE: 1:1
 PLOT STYLE: 11x17.dwt
 PLOTTED BY: RLOWE ON 9/28/2006



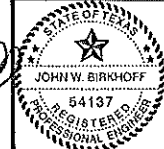
LATERAL "A1" **LATERAL "A3"** **LATERAL "A4"** **LATERAL "A5"** **LATERAL "A5A"** **LATERAL "A7A"**



LATERAL "A7B" **LATERAL "A8"** **LATERAL "A9"** **LATERAL "A10"** **LATERAL "A11"**

B.M.#19 "C" CUT IN CENTER OF INLET 150 FEET SOUTH OF BELT LINE RD., EAST OF INWOOD RD. ELEV. 630.59
 T.B.M. AR-1 "C" CUT IN TOP OF VAULT NORTHEAST CORNER OF ADDISON RD. AND BELT LINE RD. ELEV. 634.80
 T.B.M. AR-2 "C" CUT IN CENTER OF INLET EAST SIDE OF ADDISON RD., C STA. 9+87, 52 FEET RT. ELEV. 628.79
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TOWN OF ADDISON, TEXAS
ADDISON ROAD IMPROVEMENTS
BELT LINE ROAD TO ARAPAHO ROAD PHASE I
STORM SEWER LATERALS "A"

BIRKHOFF, HENDRICKS & CONWAY L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 2002 102	SHEET NO. 43
DRAWN BY: R.J.L.	DATE: SEPTEMBER 2006	OF 68 SHEETS