

B15-4
 B15-4

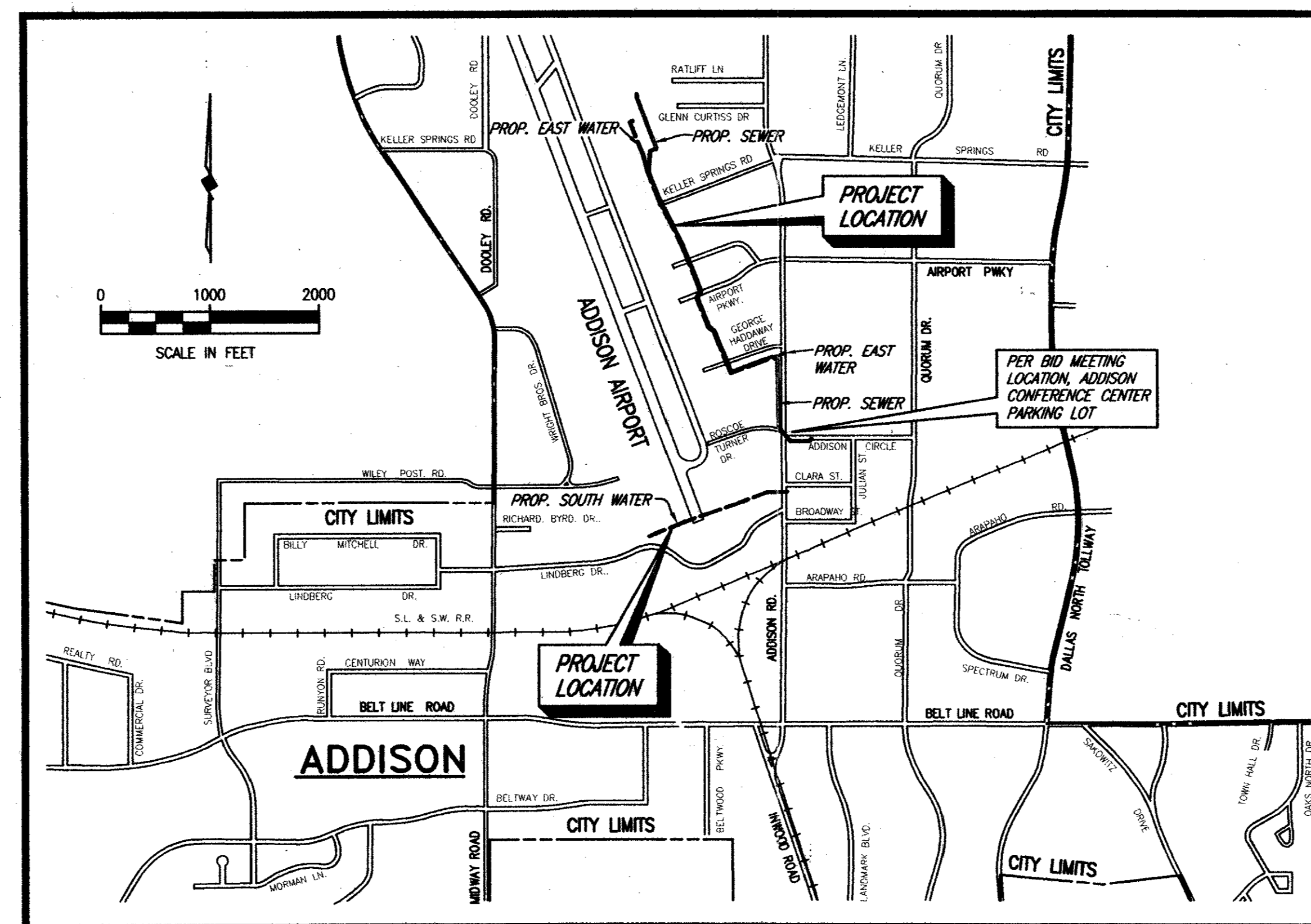
TOWN OF ADDISON, TEXAS

CONSTRUCTION PLANS FOR

ADDISON AIRPORT

SANITARY SEWER & WATER MAIN REPLACEMENT

INTERFERED
 AIRPORT CITY LIMITS



LOCATION MAP

PREPARED BY

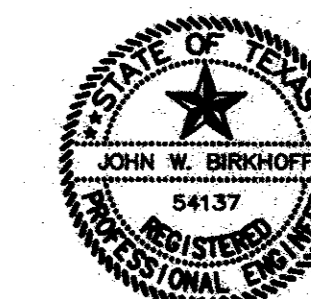
SHIMEK, JACOBS & FINKLEA, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

SEPTEMBER, 1997

SHEET INDEX

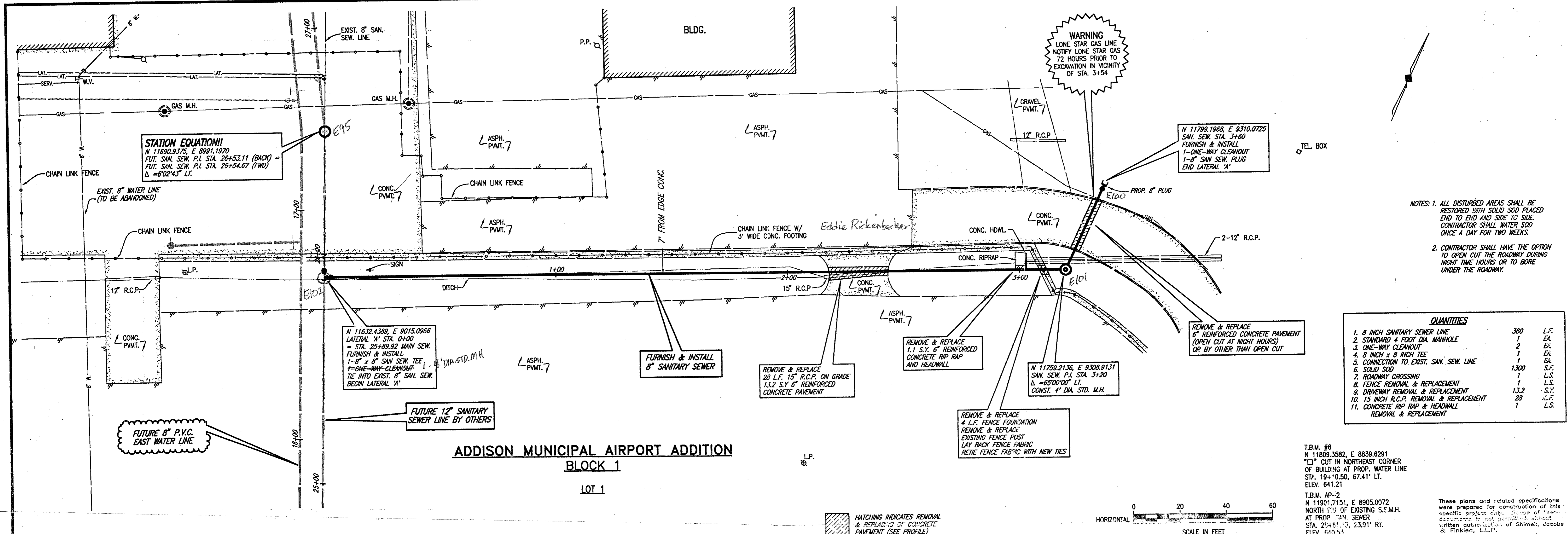
SHEET NO.	SHEET DESCRIPTION
-	GENERAL
1	COVER SHEET AND LOCATION MAP
	GENERAL NOTES & HORIZONTAL CONTROL
	PROPOSED SANITARY SEWER
2	PLAN - PROFILE STA. 0+06.52 TO STA. 4+00
3	PLAN - PROFILE STA. 4+00 TO STA. 9+50
4	PLAN - PROFILE STA. 9+50 TO STA. 14+00
5	PLAN - PROFILE STA. 14+00 TO STA. 19+00
6	PLAN - PROFILE STA. 19+00 TO STA. 25+00
7	PLAN - PROFILE STA. 25+00 TO STA. 30+00
8	PLAN - PROFILE STA. 30+00 TO STA. 35+00
9	PLAN - PROFILE STA. 35+00 TO STA. 39+75
10	PLAN - PROFILE STA. 39+75 TO STA. 42+83.52
11	PROFILE - LAT. SS2 STA. 0+00 TO STA. 3+26.56
	PROPOSED EAST AIRPORT WATER LINE
12	PLAN - PROFILE STA. 0+07.86 TO STA. 4+50
13	PLAN - PROFILE STA. 4+50 TO STA. 9+50
14	PLAN - PROFILE STA. 9+50 TO STA. 14+50
15	PLAN - PROFILE STA. 14+50 TO STA. 19+50
16	PLAN - PROFILE STA. 19+50 TO STA. 25+00
17	PLAN - PROFILE STA. 25+00 TO STA. 29+00
18	PLAN - PROFILE STA. 29+00 TO STA. 31+25.75
	PROPOSED SOUTH AIRPORT WATER LINE
19	PLAN - PROFILE STA. 0+00 TO STA. 5+00
20	PLAN - PROFILE STA. 5+00 TO STA. 10+00
21	PLAN - PROFILE STA. 10+00 TO STA. 13+41.57
	MISCELLANEOUS
22 - 25	STANDARD DETAILS

THESE DOCUMENTS ARE FOR
 BIDDING, CONSTRUCTION,
 AND PERMIT PURPOSES.
John W. Brinkhoff
 DATE: 9/5/97



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B15-4



STATION EQUATION!!
 N 11690.9375, E 8591.1970
 FUT. SAN. SEW. P.I. STA. 26+53.11 (BACK) =
 FUT. SAN. SEW. P.I. STA. 26+54.67 (FWD)
 Δ = 6'02"43" LT.

N 11632.4389, E 9015.0866
 LATERAL 'A' STA. 0+00
 = STA. 25+89.92 MAIN SEW.
 FURNISH & INSTALL
 1'-8" x 8" SAN. SEW. TEE
 1'-ONE-WAY-CLEANOUT
 TIE INTO EXIST. 8" SAN. SEW.
 BEGIN LATERAL 'A'

FURNISH & INSTALL
 8" SANITARY SEWER

REMOVE & REPLACE
 28 L.F. 15" R.C.P. ON GRADE
 1.32 S.Y. 6" REINFORCED
 CONCRETE PAVEMENT

REMOVE & REPLACE
 1.1 S.Y. 6" REINFORCED
 CONCRETE RIP RAP
 AND HEADWALL

N 11759.2136, E 9308.9131
 SAN. SEW. P.I. STA. 3+20
 Δ = 65'00"00" LT.
 CONST. 4" DIA. STD. M.H.

REMOVE & REPLACE
 4 L.F. FENCE FOUNDATION
 REMOVE & REPLACE
 EXISTING FENCE POST
 LAY BACK FENCE FABRIC
 RETIE FENCE FABRIC WITH NEW TIES

REMOVE & REPLACE
 8" REINFORCED CONCRETE PAVEMENT
 (OPEN CUT AT NIGHT HOURS)
 OR BY OTHER THAN OPEN CUT

QUANTITIES		
1. 8 INCH SANITARY SEWER LINE	360	L.F.
2. STANDARD 4 FOOT DIA. MANHOLE	1	EA.
3. ONE-WAY CLEANOUT	2	EA.
4. 8 INCH x 8 INCH TEE	1	EA.
5. CONNECTION TO EXIST. SAN. SEW. LINE	1	S.F.
6. SOLID SO2	1300	L.F.
7. ROADWAY CROSSING	1	L.S.
8. FENCE REMOVAL & REPLACEMENT	1	L.S.
9. DRIVEWAY REMOVAL & REPLACEMENT	13.2	S.Y.
10. 15 INCH R.C.P. REMOVAL & REPLACEMENT	28	L.F.
11. CONCRETE RIP RAP & HEADWALL REMOVAL & REPLACEMENT	1	L.S.

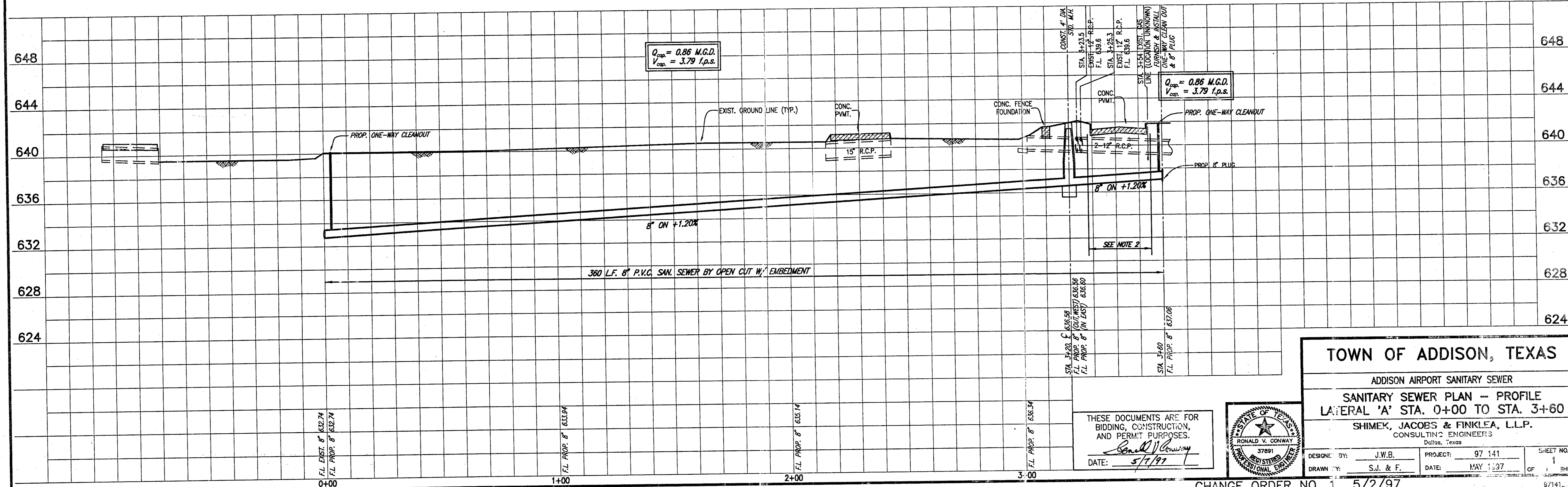
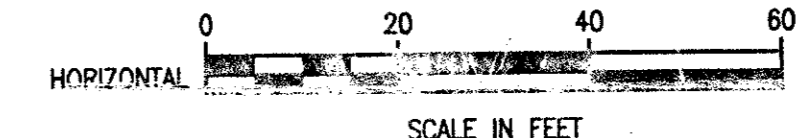
NOTES: 1. ALL DISTURBED AREAS SHALL BE RESTORED WITH SOLID SO2 PLACED END TO END AND SIDE TO SIDE. CONTRACTOR SHALL WATER SO2 ONCE A DAY FOR TWO WEEKS.
 2. CONTRACTOR SHALL HAVE THE OPTION TO OPEN CUT THE ROADWAY DURING NIGHT TIME HOURS OR TO BORE UNDER THE ROADWAY.

**ADDISON MUNICIPAL AIRPORT ADDITION
 BLOCK 1
 LOT 1**

T.B.M. #6
 N 11809.3582, E 8839.6291
 "C" CUT IN NORTHEAST CORNER
 OF BUILDING AT PROP. WATER LINE
 STA. 19+0.50, 67.41' LT.
 ELEV. 641.21
 T.B.M. AP-2
 N 11901.7151, E 8905.0072
 NORTH 1/4 OF EXISTING S.S.M.H.
 AT PROP. SAN. SEWER
 STA. 26+51.13, 23.91' RT.
 ELEV. 640.53

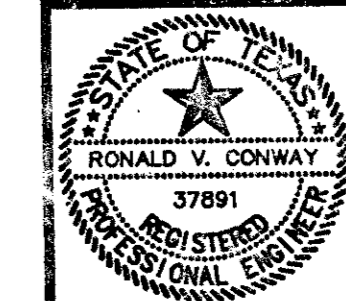
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HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)



TOWN OF ADDISON, TEXAS
 ADDISON AIRPORT SANITARY SEWER
 SANITARY SEWER PLAN - PROFILE
 LATERAL 'A' STA. 0+00 TO STA. 3+00
 SHIMEK, JACOBS & FINKLEA, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 DATE: 5/1/97

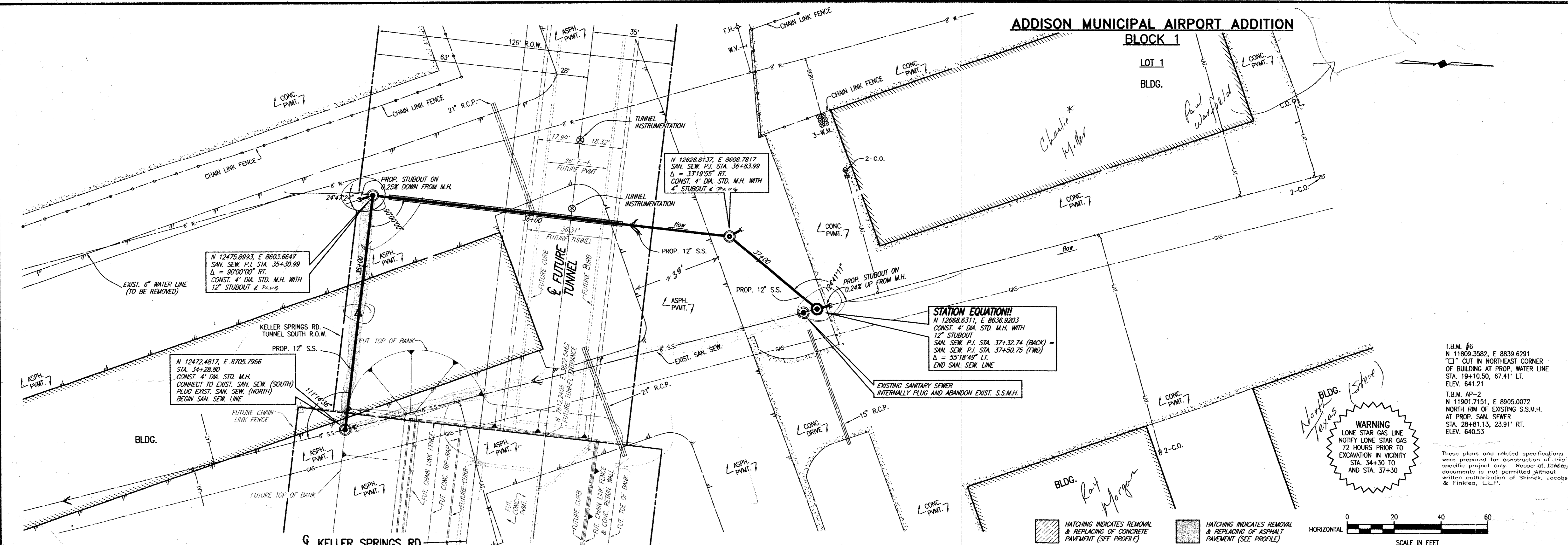


DESIGNED BY: J.W.B.	PROJECT: 97 141	SHEET NO. 1
DRAWN BY: S.J. & F.	DATE: MAY 1997	OF 1 SHEETS

CHANGE ORDER NO. 1 5/2/97

B15-4

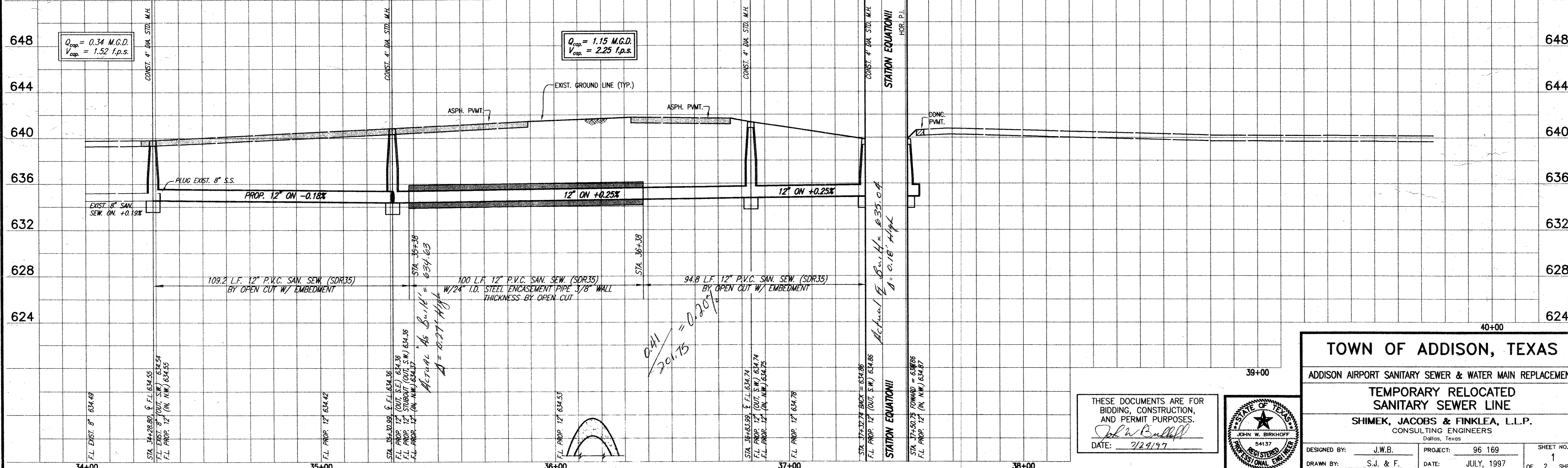
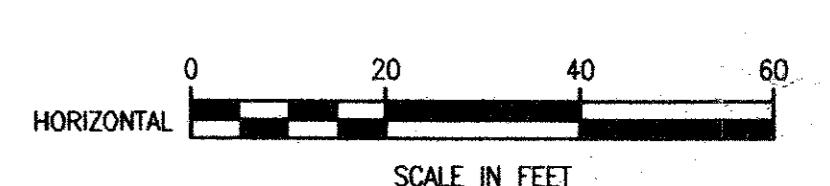
**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**



T.B.M. #6
N 11809.3582, E 8839.6291
"C" CUT IN NORTHEAST CORNER
OF BUILDING AT PROP. WATER LINE
STA. 19+10.50, 67.41' LT.
ELEV. 641.21

T.B.M. AP-2
N 11901.7151, E 8905.0072
NORTH RIM OF EXISTING S.S.M.H.
AT PROP. SAN. SEWER
STA. 28+81.13, 23.91' RT.
ELEV. 640.53

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AND PERMIT PURPOSES.
John W. Bulliff
DATE: 7/24/97



TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

**TEMPORARY RELOCATED
SANITARY SEWER LINE**

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

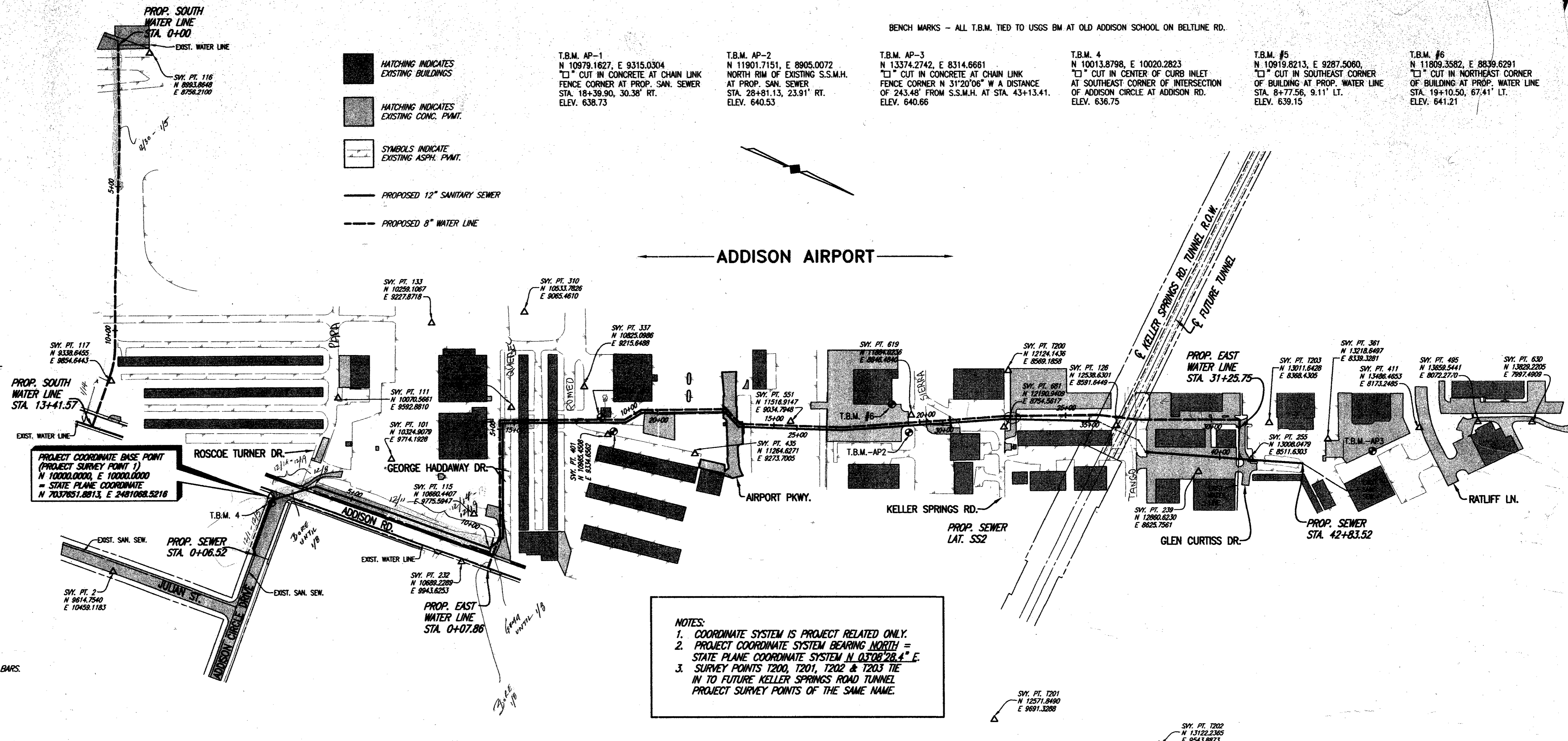
DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 1
DRAWN BY: S.J. & F. DATE: JULY, 1997 OF 2 SHEETS

GENERAL NOTES

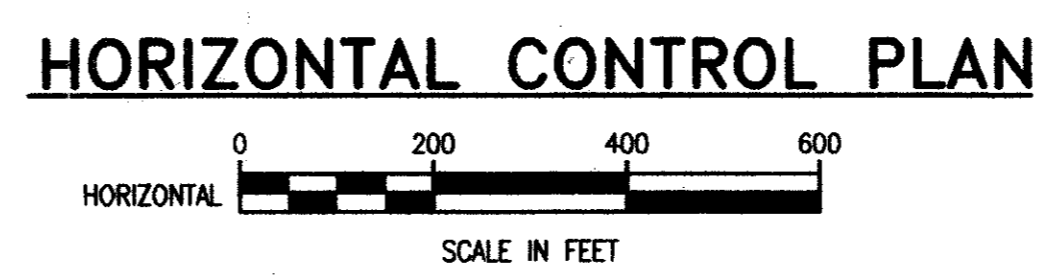
(NOTES APPLY TO ALL SHEETS)

- REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF ALL KNOWN UNDERGROUND UTILITIES AND SERVICE LINES. HOWEVER, THE OWNER ASSUMES NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL EXISTING SUBSURFACE OR SURFACE UTILITIES OR UTILITY LINES, OR TO SHOW THEM IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, SERVICE LINES OR THE LIKE, WHICH ARE CROSSED OR EXPOSED BY THE CONSTRUCTION OPERATION.
- CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION.
 - ELECTRIC
 - GENERAL TELEPHONE (G.T.E.)
 - LOVE STAR GAS
 - CABLE TELEPHONE
 - T.C.I. CABLE TV
- ALL PAVEMENT SHALL BE SAWCUT FOR TRENCHES. SAWCUTS SHALL BE FULL DEPTH.
- ALL WYES, STACKS AND PIPE SERVICE CONNECTIONS SHALL BE P.V.C. (SDR-35).
- ALL CONCRETE PAVEMENT (ROADWAYS, CURB & GUTTERS, DRIVES, AND SIDEWALKS, ETC.) SHALL HAVE BE FULL DEPTH SAWCUT. 18 INCH LONG NO. 4 DOWELS SHALL BE DRILLED INTO EXISTING PAVEMENT. CONTRACTOR SHALL UTILIZE A DRILLING RIG TO DRILL HOLES FOR DOWEL BARS. CONTRACTOR SHALL UTILIZE PROPER BITS AND PRESSURE, AS NOT TO DAMAGE EXISTING CONCRETE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGED PAVEMENT AND REPAIR AT HIS OWN COST.
- ALL MANHOLE/PIPE CONNECTIONS SHALL INCLUDE A COUPLING WITH O-RING RUBBER GASKET, KOR-N-SEAL, A-LOK OR APPROVED EQUAL.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND SPRINKLER SYSTEMS. ALL DAMAGES CAUSED BY CONSTRUCTION SHALL BE REPAIRED BY AN IRRIGATOR LICENSED IN THE STATE OF TEXAS. ALL COST SHALL BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL HAVE UTILITY COMPANIES SUPPORT AND PROTECT OR RELOCATE THEIR UTILITY POLES, GUY WIRES OR CABLE AND/OR LIGHT POLES IN WORK AREA. COST SHALL BE SUBSIDIARY TO THE CONTRACT.
- ALL ROADWAYS/PAVEMENTS, ETC. SHALL REMAIN OPEN DURING CONSTRUCTION. AT LEAST ONE WAY TRAFFIC (USING FLAGMAN OR OTHER MEANS) SHALL BE AVAILABLE DURING WORKING HOURS. AFTER HOURS, TWO WAY TRAFFIC MUST BE MAINTAINED.
- THE CONTRACTOR SHALL REPLACE ALL SHRUBS, PLANTS, TREES, ETC. THAT ARE REMOVED FOR THE COMMENCEMENT OF CONSTRUCTION AT HIS EXPENSE. NEW SHRUBS, PLANTS, TREES, ETC. SHALL BE EQUAL TO OR BETTER THAN EXISTING ONES OR MEET THE NEEDS OF THE PROPERTY OWNER.
- THE CONTRACTOR SHALL RESTORE ALL EXISTING LANDSCAPING AND VEGETATION ALONG THE CONSTRUCTION ROUTE TO ITS ORIGINAL CONDITION AFTER COMPLETION OF CONSTRUCTION.
- PRIOR TO CONSTRUCTION OF MAIN SEWER LINES, THE CONTRACTOR SHALL LOCATE AND UNCOVER ALL SERVICE LINES AND VERIFY THAT EACH CAN BE CONNECTED TO THE PROPOSED MAIN LINE.
- PRECAST MANHOLES ARE NOT ACCEPTABLE. ALL MANHOLES SHALL BE CAST IN PLACE.
- ALL WATER VALVES SHALL BE RESILIENT SEATED WEDGE GATE VALVES.
- EXISTING FIRE HYDRANTS, VALVES AND VALVE STACKS CALLED OUT IN PLANS TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
- ALL FENCES WHICH ARE REMOVED FOR THE COMMENCEMENT OF CONSTRUCTION SHALL BE REPLACED OR RECONSTRUCTED. ALL POSTS SHALL BE SET IN CONCRETE AND ALL TIES SHALL BE NEW. ALL CONCRETE MOW STRIPS SHALL BE RECONSTRUCTED W/ #3 DEFORMED BARS.
- CONTRACTOR SHALL ABANDON EXISTING SEWER MANHOLES AS SHOWN IN THE PLANS. PAY ITEM FOR ABANDONING AN EXISTING MANHOLE SHALL INCLUDE PLACING 2000 P.S.I. CONCRETE (M.C.T.C.O.G. CLASS "B") 12 INCHES ABOVE THE SPRING LINE OF THE HIGHEST PIPE, AND BACKFILLING AND COMPACTING THE MANHOLE 6 INCH LIFTS WITH EXCAVATED OR IMPORTED MATERIAL. REMOVE RING, COVER AND CONE. BACKFILL TOP 12 INCHES UNDER PAVEMENT STRUCTURE WITH SAND. IN OPEN AREAS, BACKFILL TOP 12 INCHES WITH IMPORTED TOPSOIL AND SOIL SOD.
- ALL EXISTING SEWER LINES WHICH ARE TO BE PLUGGED SHALL BE PLUGGED WITH A MINIMUM OF 18 INCHES OF 200 P.S.I. GROUT (M.C.T.C.O.G. CLASS "B"). THE 18 INCHES OF SEWER LINE TO BE PLUGGED SHALL BE WIRE BRUSHED CLEANED PRIOR TO PLACEMENT OF GROUT.
- ALL CHANGES OF DIRECTION OF THE PROPOSED WATER LINE SHALL BE MARKED ON THE SURFACE. PAVEMENT SHALL BE MARKED WITH PERMANENT MARKERS MANUFACTURED BY D.A.S. MANUFACTURING, INC. OF VALDRO, FLORIDA (813-681-8024). THE MARKER SHALL BE BLUE WITH THE WORD "WATER" AND AN ARROW(S) FOR THE DIRECTION(S) OF THE LINE.
- ALL WATER SERVICES SHALL INCLUDE AN U.S.C. APPROVED DOUBLE CHECK VALVE ASSEMBLY UPSTREAM OF METER. EACH SHALL BE SET IN ITS OWN VALVE OR METER BOX.
- ALL GRASS DISTURBED ALONG PROJECT SHALL BE REPLACED WITH SOLID SOD PLACED END TO END. CONTRACTOR SHALL WATER SOD TWICE A DAY FOR A PERIOD OF SIX WEEKS. WATERING SHALL BE ACCOMPLISHED BY USE OF A WATER TRUCK.
- ALL EXISTING AND NEW FIRE HYDRANTS NOT ACTIVE SHALL HAVE OUT OF SERVICE MARKERS PLACED ON TWO NOZZLES. MARKERS SHALL BE FROM HYDRA-SHIELD MANUFACTURING 1-800-676-0911 OR EQUAL. THE COLOR SHALL BE RED.
- FINAL LOCATION OF WATER METER AND DOUBLE CHECK VALVE ASSEMBLY SHALL BE DETERMINED IN THE FIELD BY THE TOWN OF ADDISON.
- ALL PAVEMENT CUTS SHALL BE COMPLETED UTILIZING FULL DEPTH SAW CUT. PROPOSED CONCRETE PAVEMENT SHALL BE DOWELED INTO EXIST. CONCRETE PAVEMENT (SEE LONGITUDINAL BUTT JOINT DETAIL).
- ALL PAVEMENT REMOVAL AND REPLACEMENT IS SHOWN IN THE PROFILE. SEE SHEET 21 FOR PAVEMENT DETAILS.

SPECIAL NOTE TO CONTRACTOR:
 ALL PROPOSED MANHOLES SHALL INCLUDE INTERNAL MANHOLE CHIMNEY SEAL AS MANUFACTURED BY CHETEX SPECIALTY PRODUCTS (OF MAJUESHA, WI) OR APPROVED EQUAL. THEY SHALL ALSO INCLUDE A RAINSTOPPER AS MANUFACTURED BY SOUTHWESTERN PACKING & SEALS (OF SHREVEPORT, LA) OR APPROVED EQUAL.



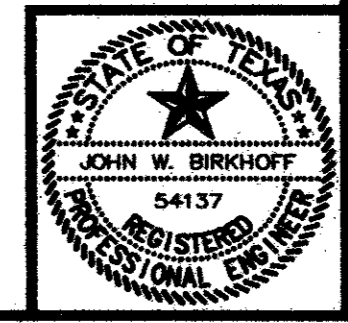
NOTES:
 1. COORDINATE SYSTEM IS PROJECT RELATED ONLY.
 2. PROJECT COORDINATE SYSTEM BEARING NORTH = STATE PLANE COORDINATE SYSTEM N 03°08'28.4" E.
 3. SURVEY POINTS T200, T201, T202 & T203 TIE IN TO FUTURE KELLER SPRINGS ROAD TUNNEL PROJECT SURVEY POINTS OF THE SAME NAME.



SUMMARY OF ABBREVIATIONS AND DEFINITIONS

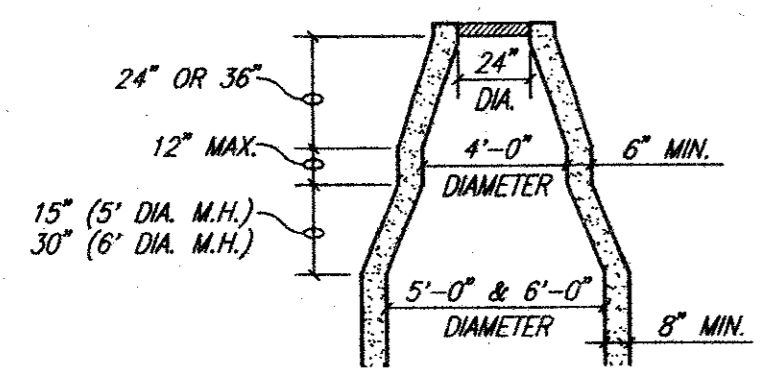
GENERAL TOPOGRAPHY & HORIZONTAL/ VERTICAL CONTROL		TREES & BUSHES	
ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
B.C.	BACK OF CURB	B.D.	BOIS D'ARC TREE
C	CENTERLINE	B.T.	BLACK THORN TREE
C.M.A.P.	CORRUGATED METAL ARCH PIPE	C.B.	CHINABERRY TREE
C.M.P.	CORRUGATED METAL PIPE	COR.	CEDAR TREE
C.I.	CAST IRON	C.E.	CEDAR ELM TREE
C.O.	CLEANOUT	C.M.	CRAPE MYRTLE TREE
CONN.	CONNECTION	C.P.	CHINESE PISTACHIO TREE
CULV.	CULVERT	C.W.	COTTONWOOD TREE
D.I.P.	DUCTILE IRON PIPE	CYP.	CYPRESS TREE
ELEV.	ELEVATION	H.B.	HACKBERRY TREE
ELEC.	BURIED ELECTRICAL POWER LINE	HCK.	HICKORY TREE
ENC.	ENCASMENT	H.T.	HAWTHORN TREE
E.P.	EDGE OF PAVEMENT	LIG.	LIGUSTRUM BUSH
ESMT.	EASEMENT	L.O.	LIVE OAK TREE
F.-F.	FACE TO FACE	LOC.	LOCUST TREE
F.H.	FIRE HYDRANT	MAG.	MAGNOLIA TREE
F.M.	SANITARY SEWER FORCE MAIN	MAP.	MAPLE TREE
F.L.	FLOW LINE	MSQ.	MESSQUITE TREE
G.L.M.	GAS LINE MARKER	M.M.	MIMOSA TREE
G.M.	GAS METER	MUL.	MULBERRY TREE
G.V.	GAS VALVE	NAN.	NANDENA BUSH
GUT.	GUTTER	PEC.	PECAN TREE
HOWL.	HEADWALL	PER.	PERSIMMON TREE
I.P.F. OR I.R.F.	IRON PIN (ROD) FOUND	PHOT.	RED TIPPED PHOTINIA BUSH
LL.	LANDSCAPING LIGHT	R.B.	REDBUD TREE
L.P.	LIGHT POLE	R.O.K.	RED OAK TREE
L.S.	SANITARY SEWAGE LIFT STATION	S.G.	SWEET GUM TREE
L.S.T.	LANDSCAPING TIMBERS	SYC.	SYCAMORE TREE
M.B.	MAILBOX	WIL.	WILLOW TREE
M.H.	MANHOLE		
P.C.	POINT OF CURVATURE		
P.I.	POINT OF INTERSECTION		
P.L.	PROPERTY LINE		
P.P.	POWER POLE		
P.R.C.	POINT OF REVERSE CURVATURE		
P.T.	POINT OF TANGENCY		
P.V.C.	PLASTIC PIPE		
P.V.I.	POINT OF VERTICAL INTERSECTION		
R.	RADIUS		
R.C.	REINFORCED CONCRETE		
R.C.P.	REINFORCED CONCRETE PIPE		
R.O.W.	RIGHT OF WAY		
SAN. SEW. OR S.S.	SANITARY SEWER		
S.H.	LAWN SPRINKLER HEAD		
S.S.	SANITARY SEWER		
S.S.M.H.	SANITARY SEWER MANHOLE		
ST. SEW.	STORM SEWER		
S.V.B.	LAWN SPRINKLER VALVE BOX		
T.B.	TELEPHONE CABLE BOX		
T.C.	TOP OF CURB		
TEL.	BURIED TELEPHONE CABLE		
T.M.H.	TELEPHONE CABLE MANHOLE		
TO F.	TO FACE (OF CURB)		
T.V.	BURIED TELEVISION CABLE		
U.G.C.M.	UNDERGROUND CABLE MARKER		
U.P.M.	UNDERGROUND PIPELINE MARKER		
V.C.	VERTICAL CURVE		
W. OR W.L.	WATER LINE		
W.M.	WATER METER		
W.V.	WATER VALVE		

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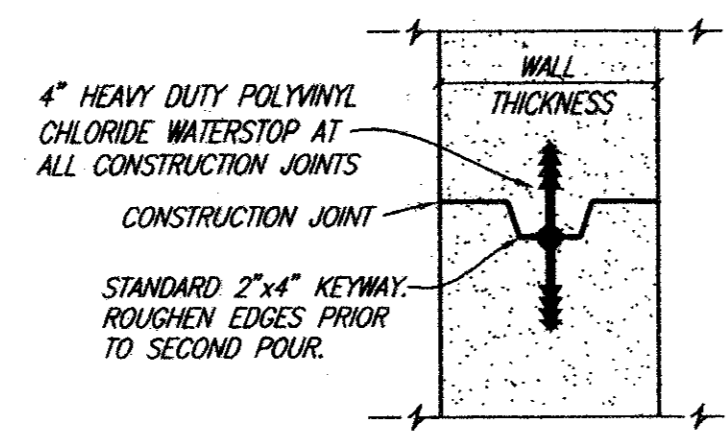


TOWN OF ADDISON, TEXAS
 ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
GENERAL NOTES & HORIZONTAL CONTROL
 SHIMEK, JACOBS & FINKLEA, L.L.P.
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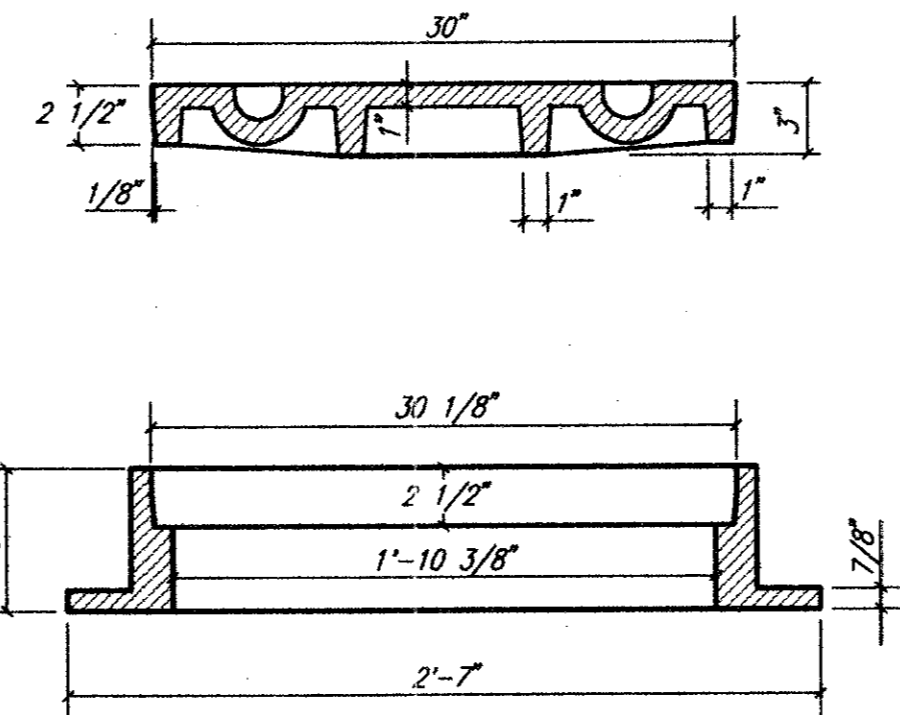
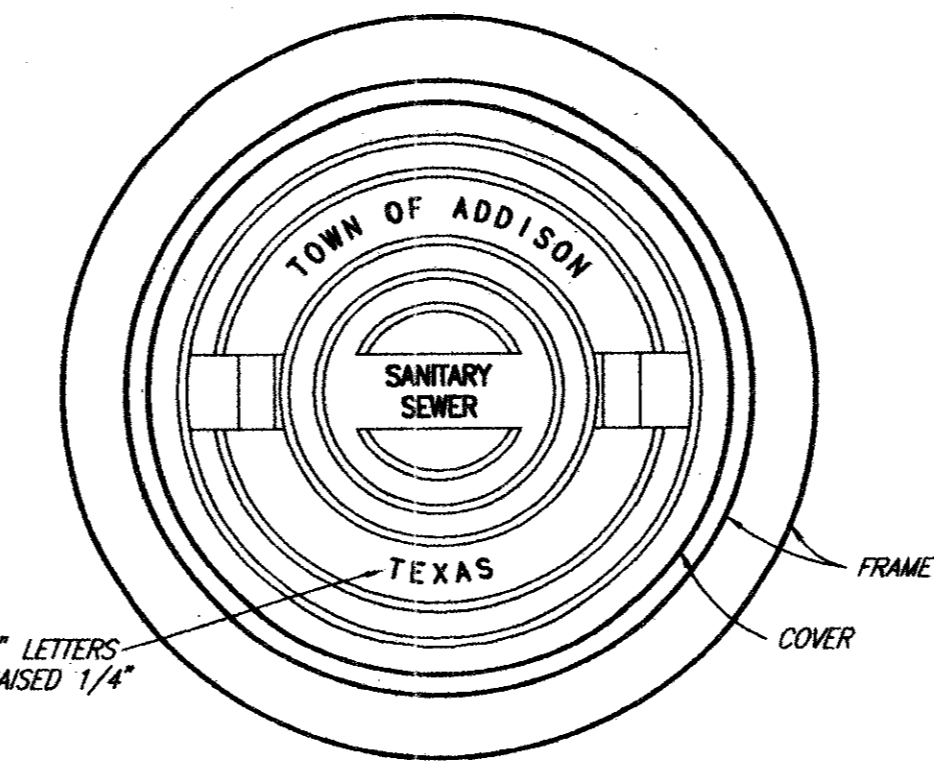
DESIGNED BY: S.J. & F. PROJECT: 96 169 SHEET NO. 1
 DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS



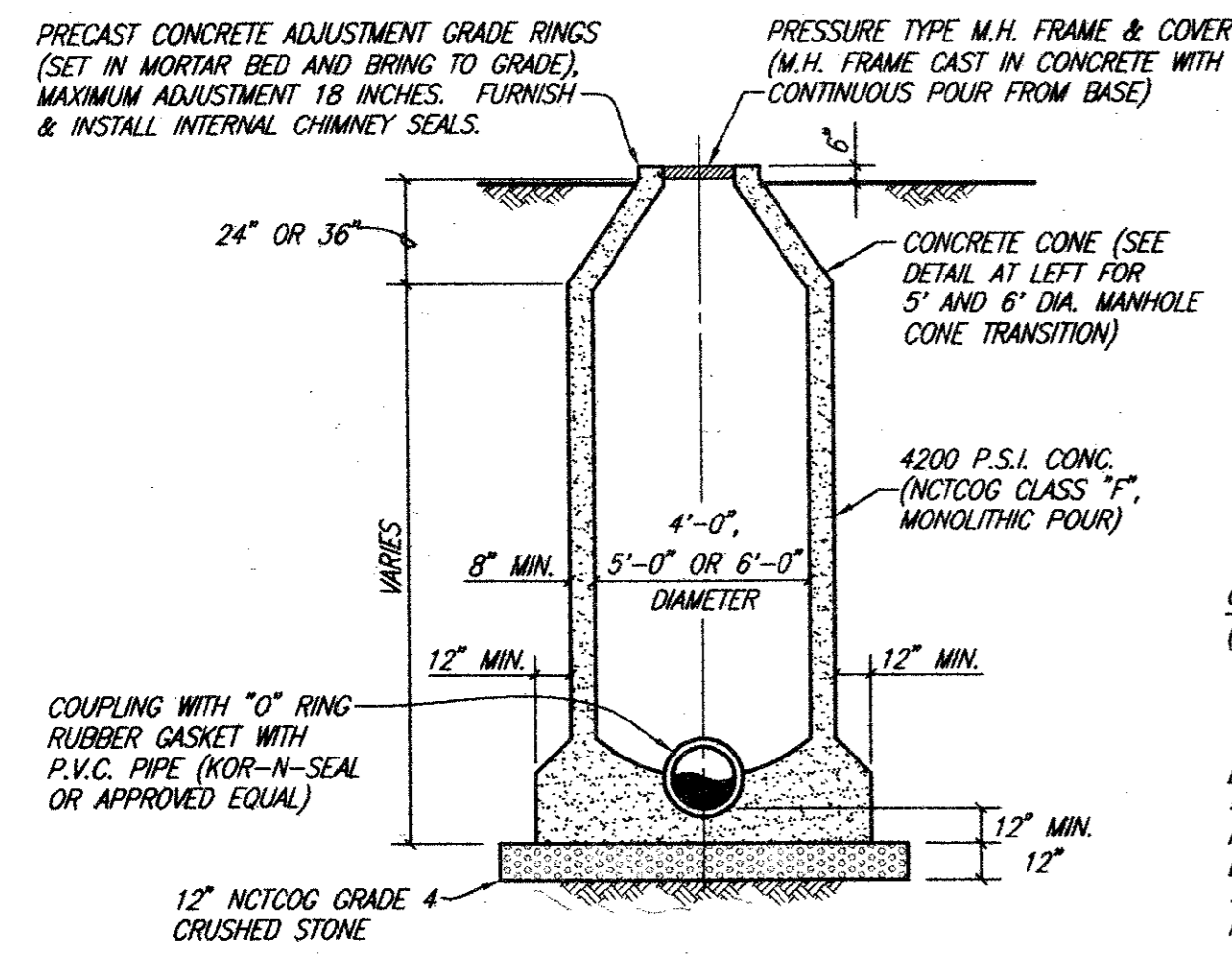
CONE TRANSITION
5' & 6' DIAMETER MANHOLES ONLY



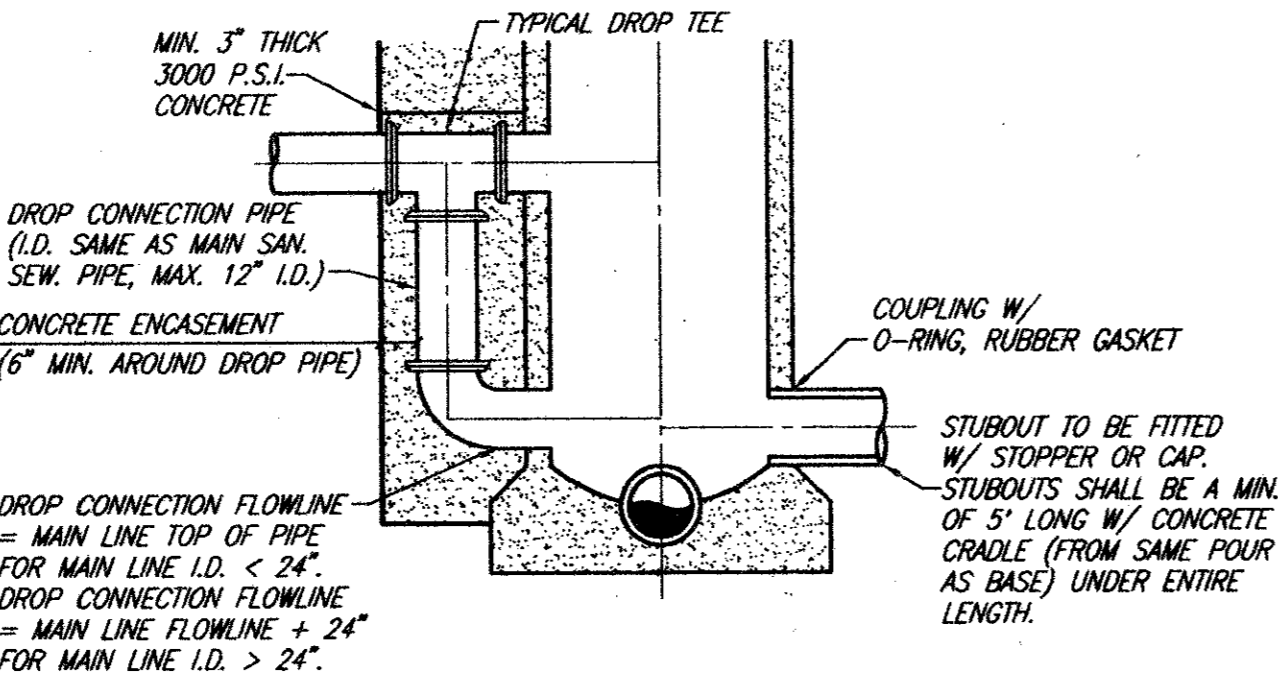
MANHOLE CONSTRUCTION JOINT
KEYWAY WITH WATERSTOP



MANHOLE RING AND COVER
NO SCALE



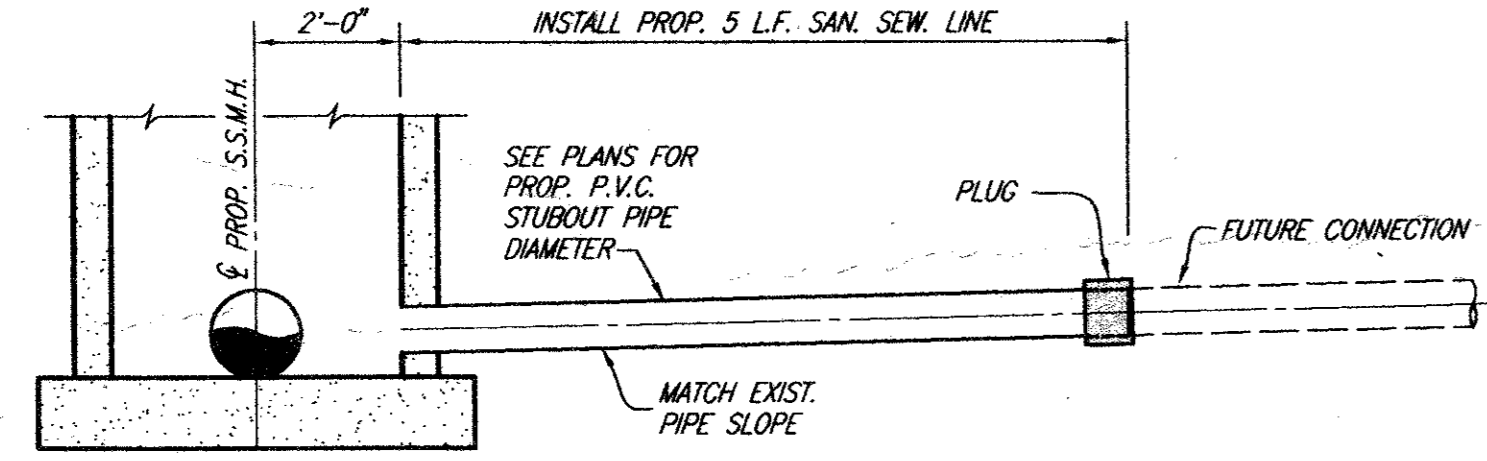
STANDARD MANHOLE ELEVATION
4', 5' & 6' DIAMETER MANHOLES



DROP MANHOLE ELEVATION
4', 5' & 6' DIAMETER MANHOLES

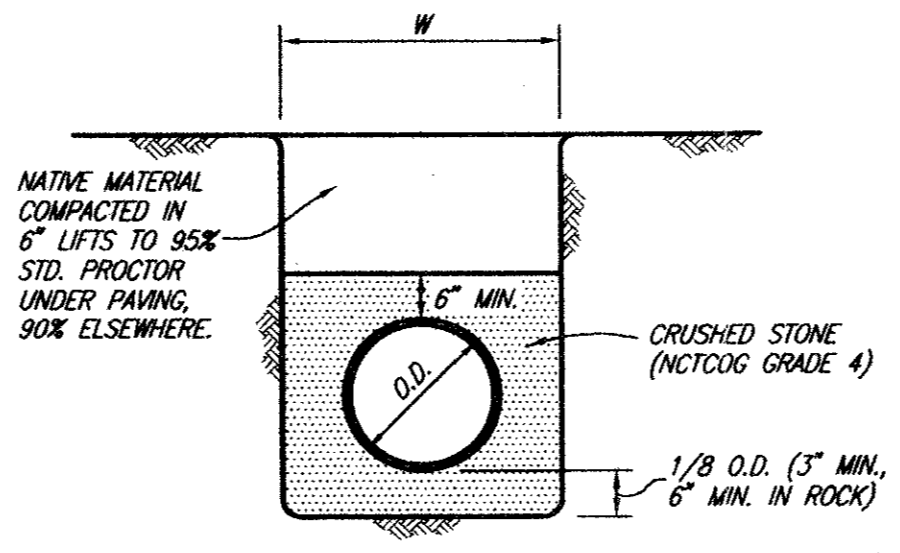
SANITARY SEWER MANHOLE (CAST IN PLACE)

PRECAST MANHOLES NOT ACCEPTABLE IN ADDISON. MANHOLES SHALL BE PLUMB TO WITHIN 1 INCH FOR EVERY 5 FEET OF VERTICAL DEPTH.
NO SCALE



STUBOUT & PLUG FOR FUTURE CONNECTIONS
NO SCALE

NOTE:
MATCH SOFFITS UPSTREAM OF MANHOLE
MATCH FLOWLINES DOWNSTREAM OF MANHOLE



CLASS H EMBEDMENT

P.V.C. PIPE ONLY
STD. P.V.C. SEWER

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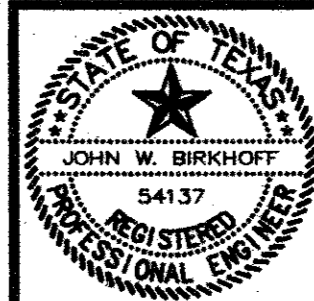
TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

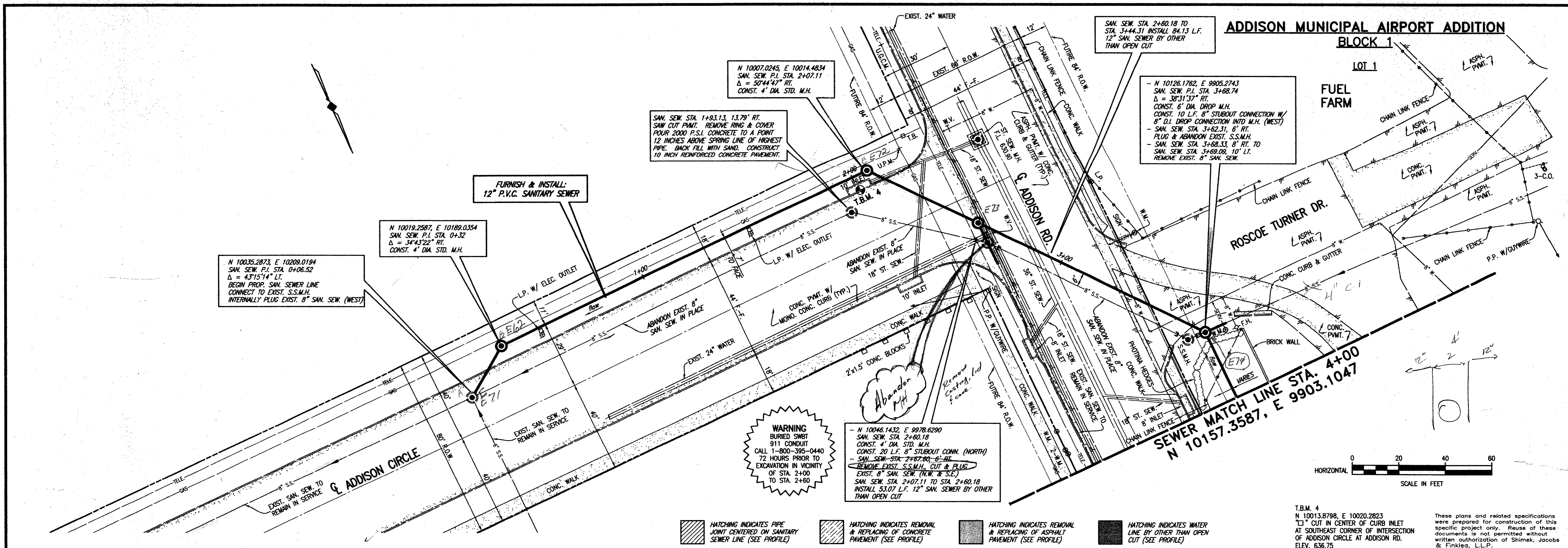
STANDARD DETAILS

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

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John W. Birkhoff
DATE: 7/24/97



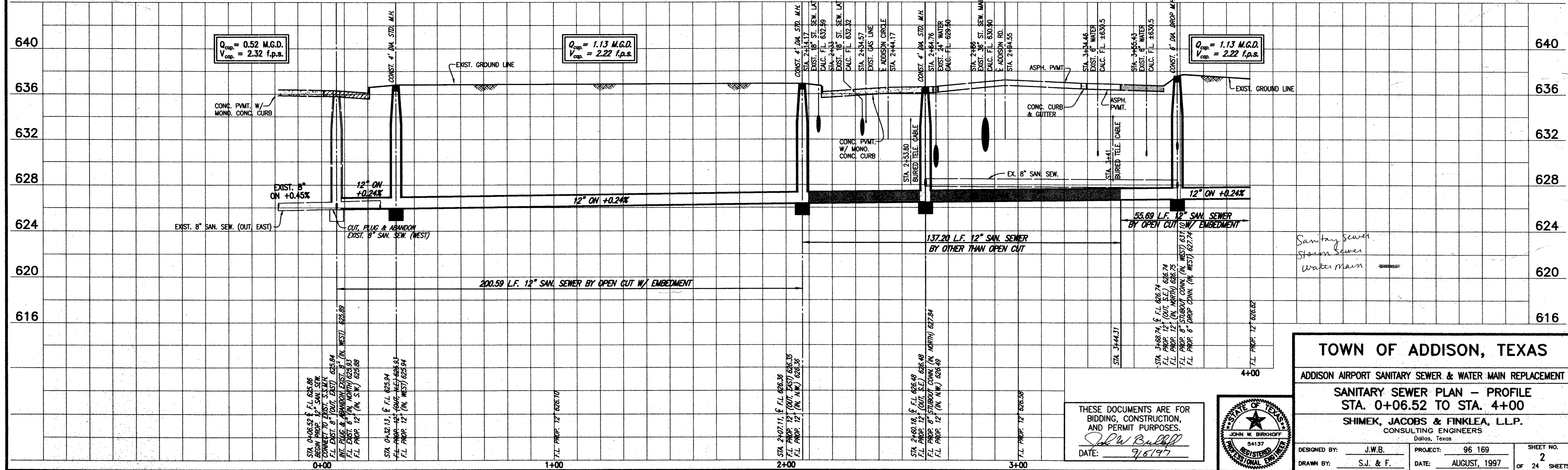
DESIGNED BY: S.J. & F.	PROJECT: 96 169	SHEET NO. 2
DRAWN BY: S.J. & F.	DATE: JULY 1997	OF 2 SHEETS



- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)

T.B.M. 4
 N 10013.8798, E 10020.2823
 12" CUT IN CENTER OF CURB INLET
 AT SOUTHEAST CORNER OF INTERSECTION
 OF ADDISON CIRCLE AT ADDISON RD.
 ELEV. 636.75

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TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

SANITARY SEWER PLAN - PROFILE
 STA. 0+06.52 TO STA. 4+00

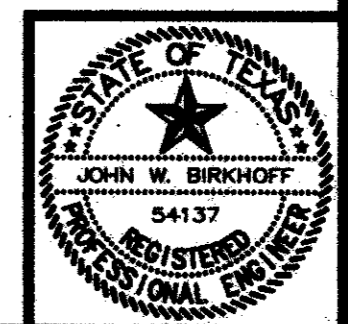
SHIMEK, JACOBS & FINKLER, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 96 169	SHEET NO. 2
DRAWN BY: S.J. & F.	DATE: AUGUST, 1997	OF 24 SHEETS

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John W. Bullard

DATE: 9/6/97

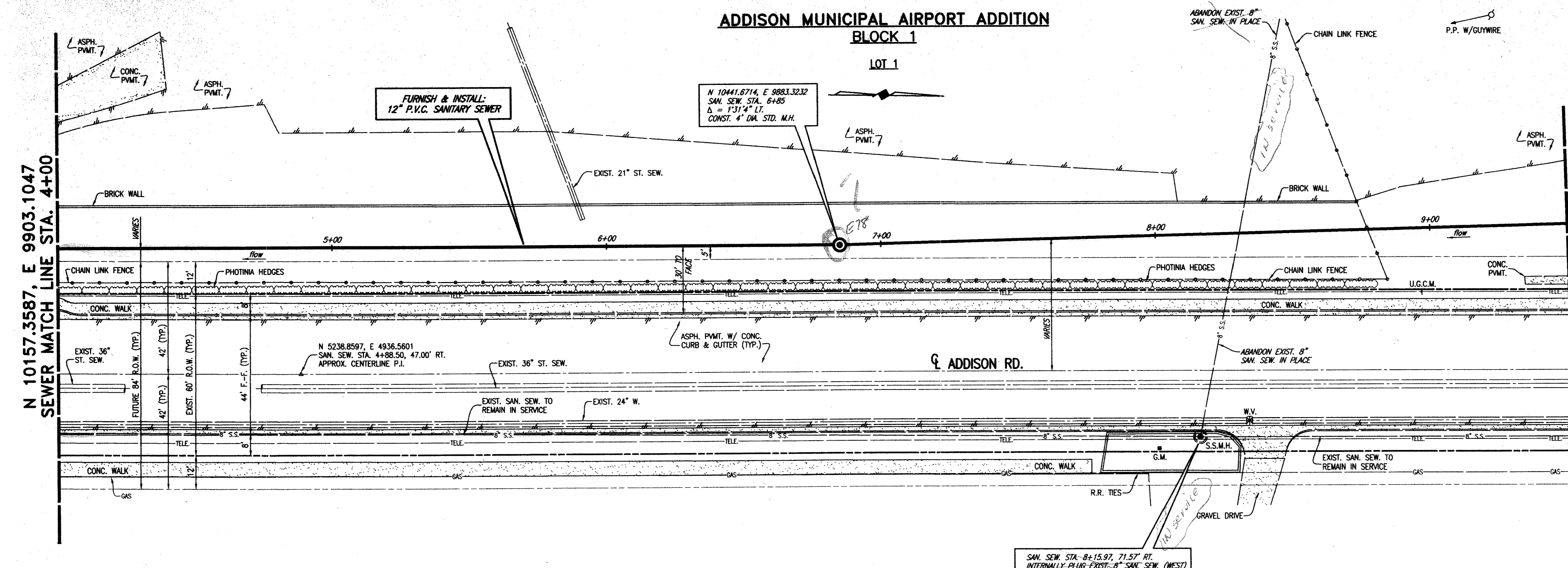


**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**

LOT 1

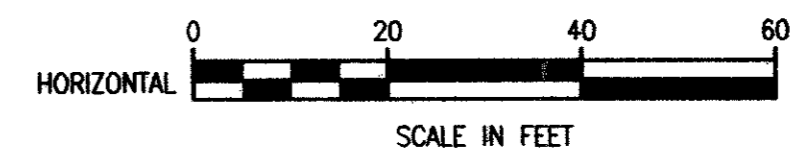
N 10157.3587, E 9903.1047
SEWER MATCH LINE STA. 4+00

SEWER MATCH LINE STA. 9+48
N 10705.5486, E 9857.9785



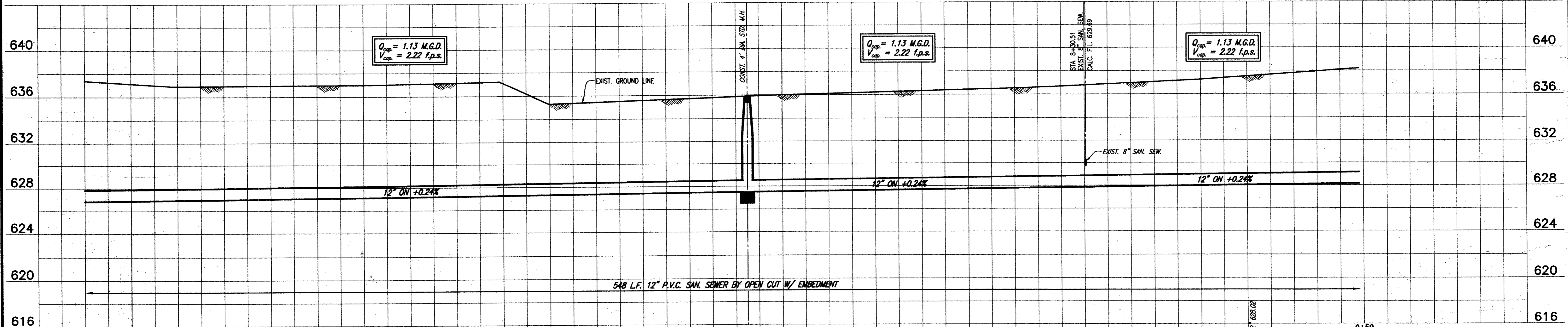
HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)

HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)



T.B.M. 4
N 10013.8798, E 10020.2823
CUT IN CENTER OF CURB INLET
AT SOUTHEAST CORNER OF INTERSECTION
OF ADDISON CIRCLE AT ADDISON RD.
ELEV. 636.75

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TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

SANITARY SEWER PLAN - PROFILE
STA. 4+00 TO STA. 9+48

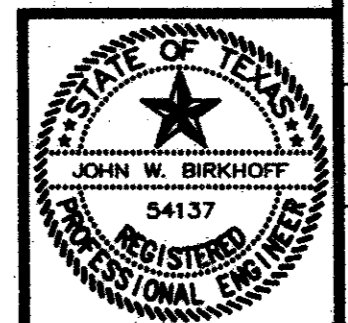
SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 96 169	SHEET NO. 3
DRAWN BY: S.J. & F.	DATE: MARCH 1997	OF 24 SHEETS

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

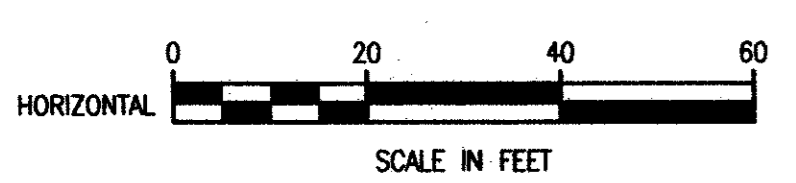
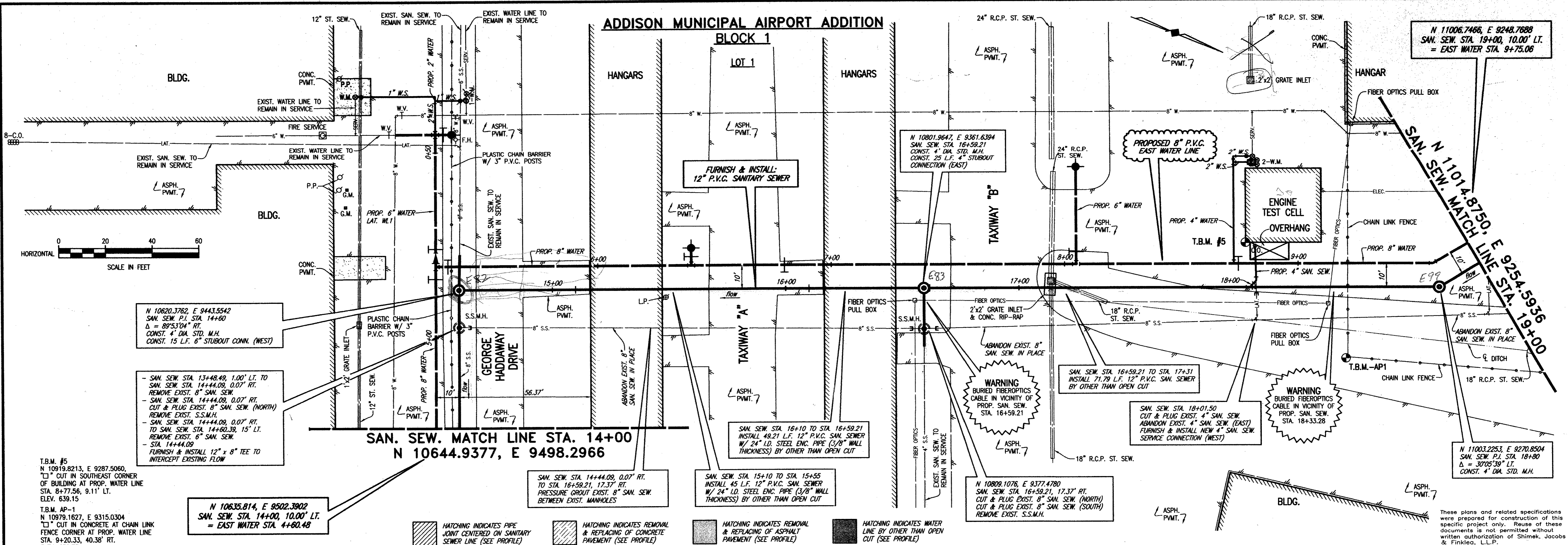
John W. Birkhoff

DATE: 8/22/97



ADDISON MUNICIPAL AIRPORT ADDITION

BLOCK 1



N 10620.3762, E 9443.5542
SAN. SEW. P.I. STA. 14+60
Δ = 89°53'04" RT.
CONST. 4" DIA. STD. M.H.
CONST. 15 L.F. 6" STUBOUT CONN. (WEST)

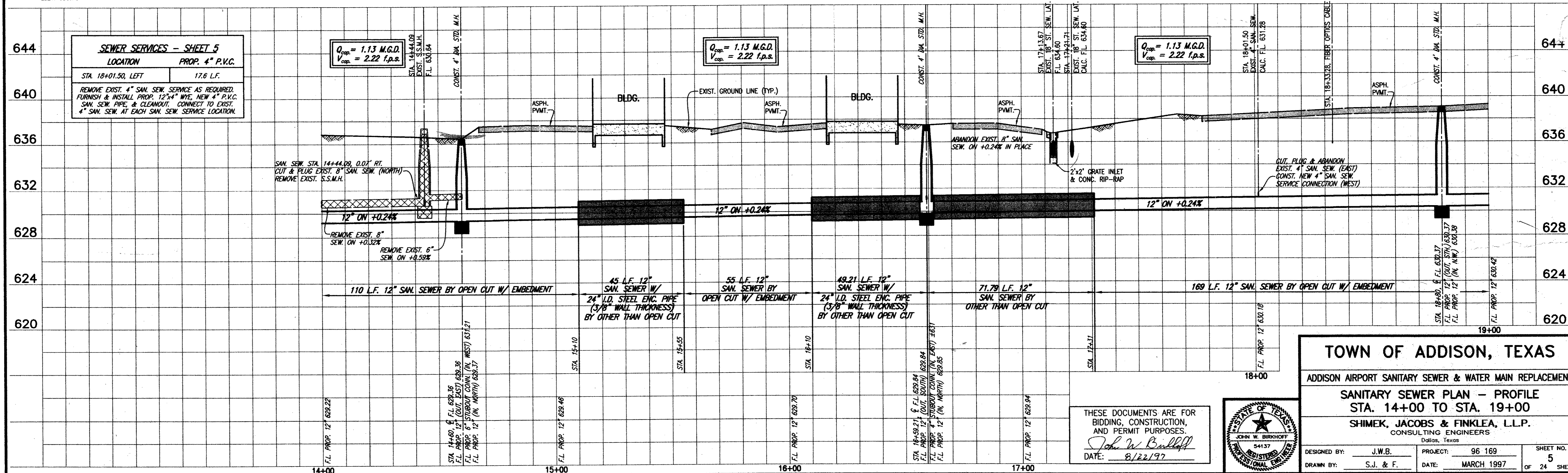
SAN. SEW. STA. 13+48.49, 1.00' LT. TO
SAN. SEW. STA. 14+44.09, 0.07' RT.
REMOVE EXIST. 8" SAN. SEW.
SAN. SEW. STA. 14+44.09, 0.07' RT.
CUT & PLUG EXIST. 8" SAN. SEW. (NORTH)
REMOVE EXIST. S.S.M.H.
SAN. SEW. STA. 14+44.09, 0.07' RT.
TO SAN. SEW. STA. 14+60.39, 15' LT.
REMOVE EXIST. 6" SAN. SEW.
STA. 14+44.09
FURNISH & INSTALL 12" x 8" TEE TO
INTERCEPT EXISTING FLOW

SAN. SEW. MATCH LINE STA. 14+00
N 10644.9377, E 9498.2966

N 10635.814, E 9502.3902
SAN. SEW. STA. 14+00, 10.00' LT.
= EAST WATER STA. 4+60.48

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)

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TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

SANITARY SEWER PLAN - PROFILE
STA. 14+00 TO STA. 19+00

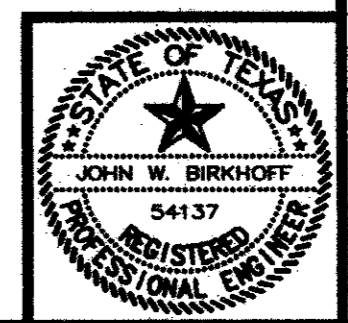
SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 5
DRAWN BY: S.J. & F. DATE: MARCH 1997 OF 24 SHEETS

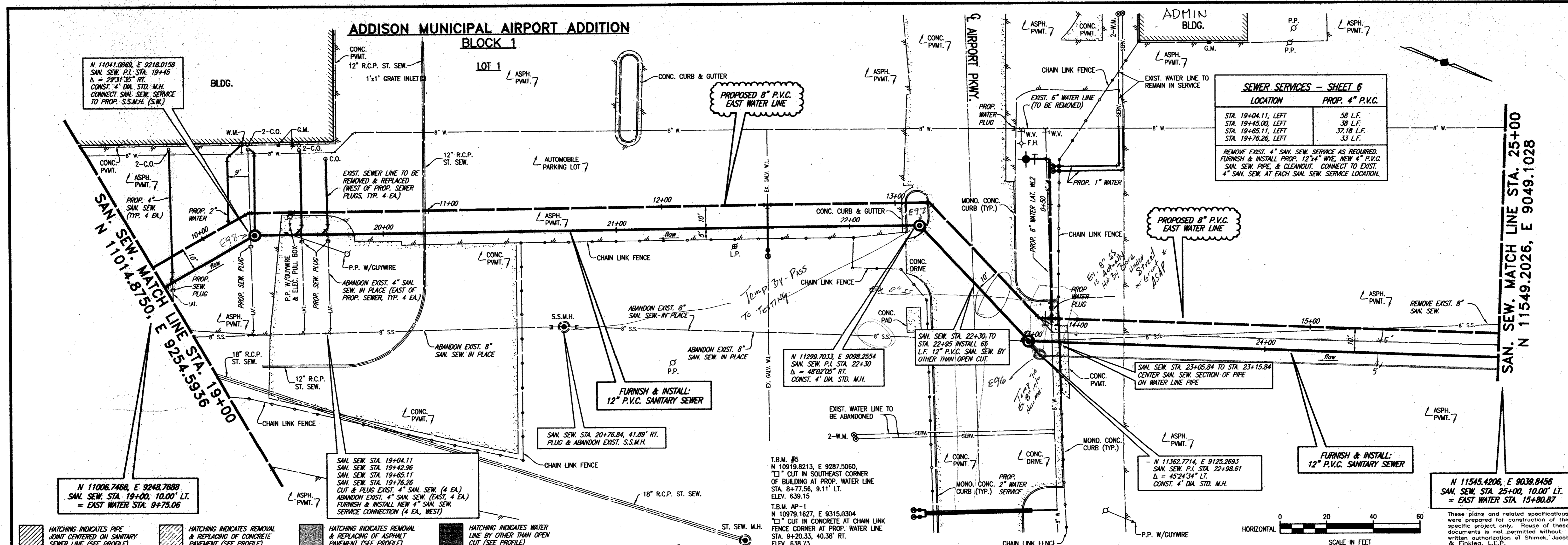
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

John W. Bullhoff

DATE: 8/22/97



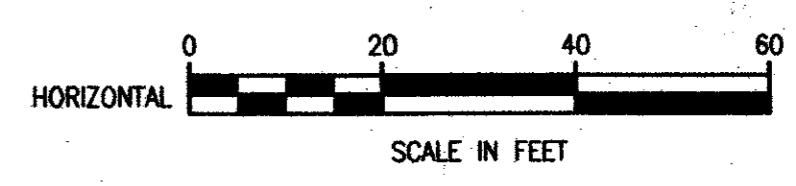
**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**



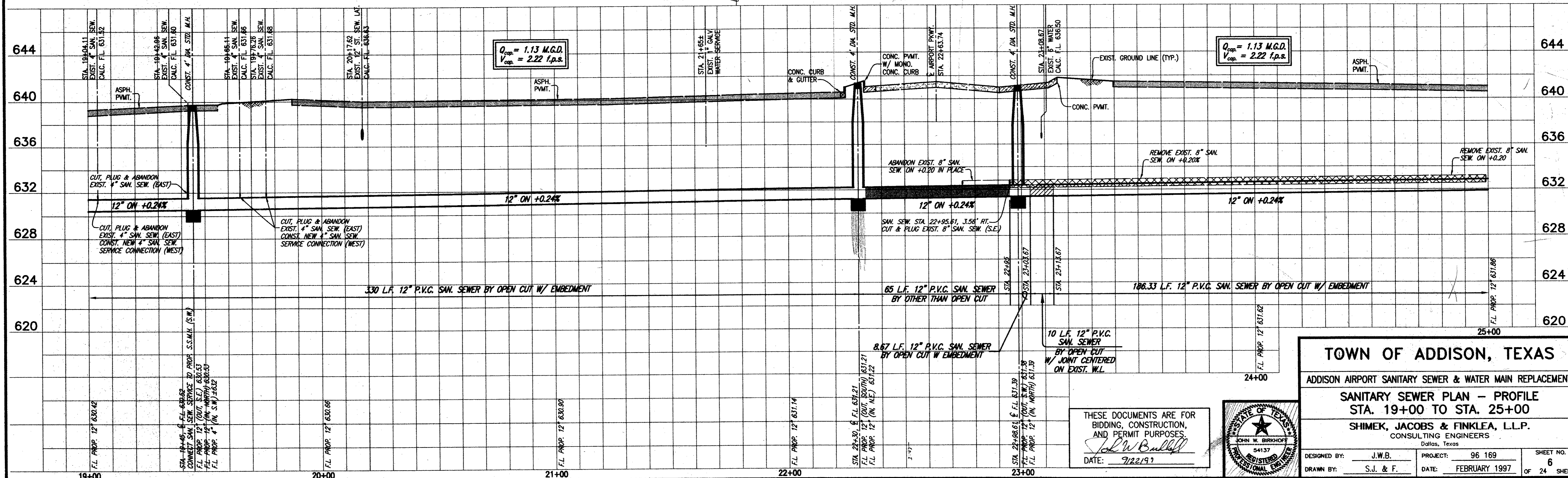
SEWER SERVICES - SHEET 6

LOCATION	PROP. 4" P.V.C.
STA. 19+04.11, LEFT	58 L.F.
STA. 19+45.00, LEFT	38 L.F.
STA. 19+65.11, LEFT	37.18 L.F.
STA. 19+76.26, LEFT	33 L.F.

REMOVE EXIST. 4" SAN. SEW. SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 12"x4" WYE, NEW 4" P.V.C. SAN. SEW. PIPE, & CLEANOUT, CONNECT TO EXIST. 4" SAN. SEW. AT EACH SAN. SEW. SERVICE LOCATION.



- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)



TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

SANITARY SEWER PLAN - PROFILE
STA. 19+00 TO STA. 25+00

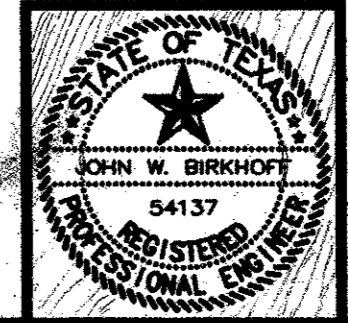
SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 6
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

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

John W. Bullard

DATE: 7/22/97



**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**

LOT 1

N 12439.4065, E 8596.8813
SAN. SEW. STA. 35+00, 20.43' LT.
= EAST WATER STA. 25+80.88

SEWER SERVICES - SHEET 8

LOCATION	PROP. 4" P.V.C.
* STA. 30+10.27, LEFT	20 L.F.
* STA. 31+32.82, LEFT	20 L.F.
* STA. 32+62.25, RIGHT	100 L.F.
* STA. 34+36.06, LEFT	8.2 L.F.

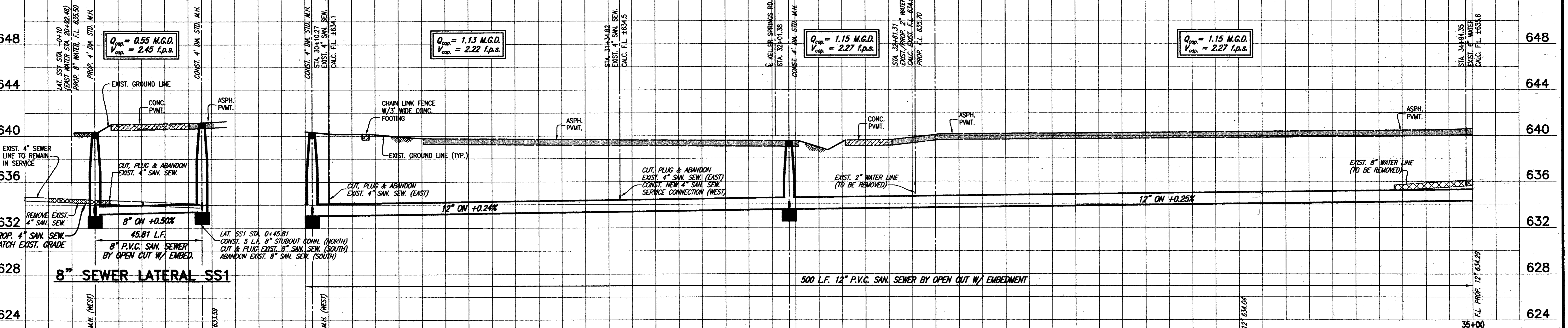
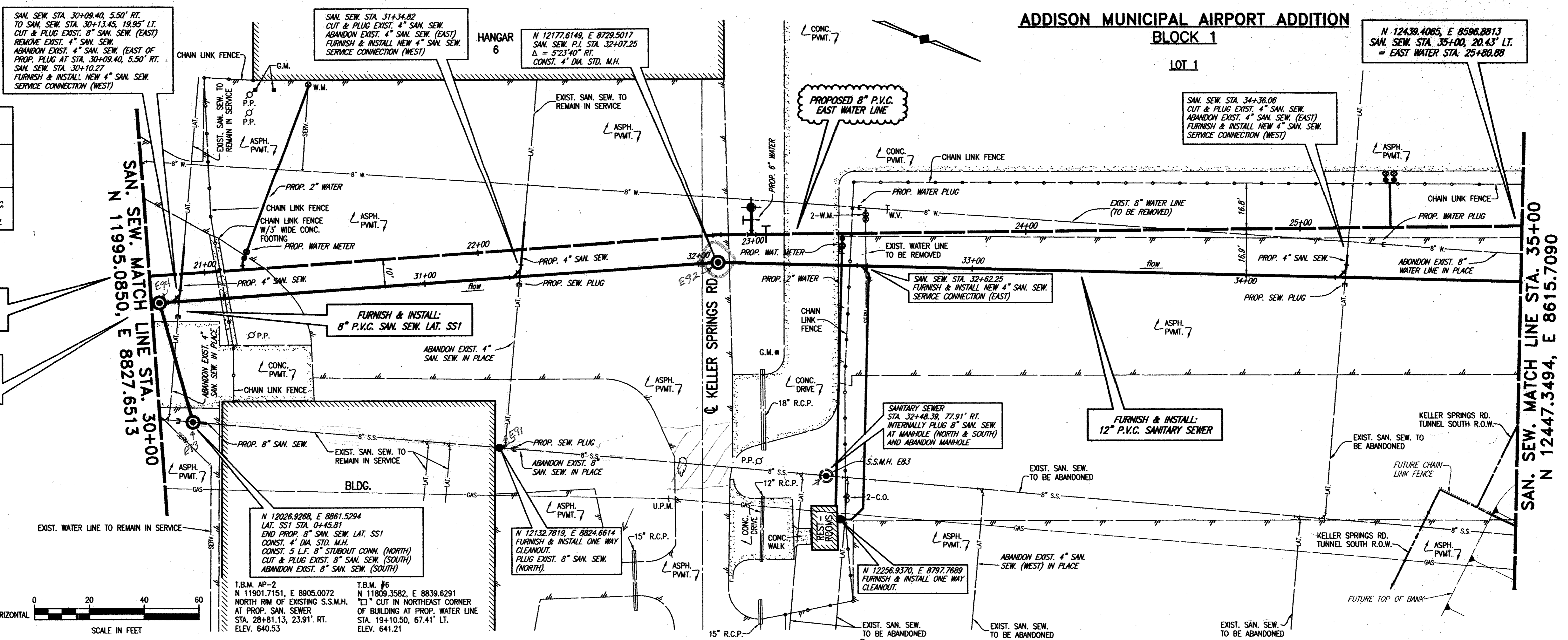
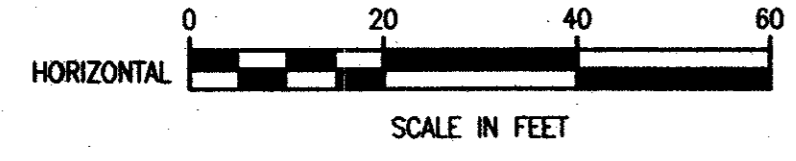
REMOVE EXIST. 4" SAN. SEW. SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 12"x4" WYE, NEW 4" P.V.C. SAN. SEW. PIPE, & CLEANOUT. CONNECT TO EXIST. 4" SAN. SEW. AT EACH SAN. SEW. SERVICE LOCATION.
* WITHOUT CLEANOUT

N 11990.3491, E 8818.8439
SAN. SEW. STA. 30+00, 10.00' LT.
= EAST WATER STA. 20+79.75

N 11997.7273, E 8826.2305
SAN. SEW. STA. 30+03 =
PROP. LAT. SSI STA. 0+00
BEGIN PROP. 8" SAN. SEW. LAT. SSI
CONST. 4" DIA. STD. M.H.

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)

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TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

SANITARY SEWER PLAN - PROFILE
STA. 30+00 TO STA. 35+00

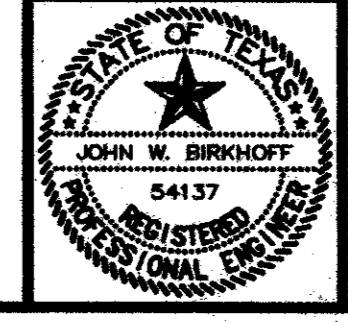
SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

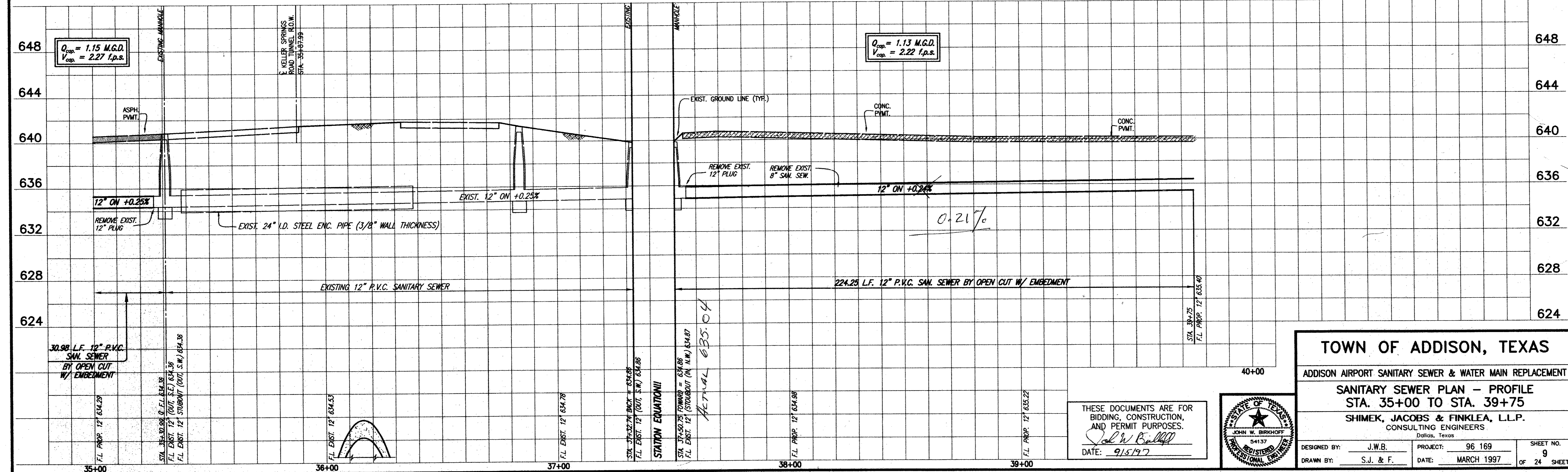
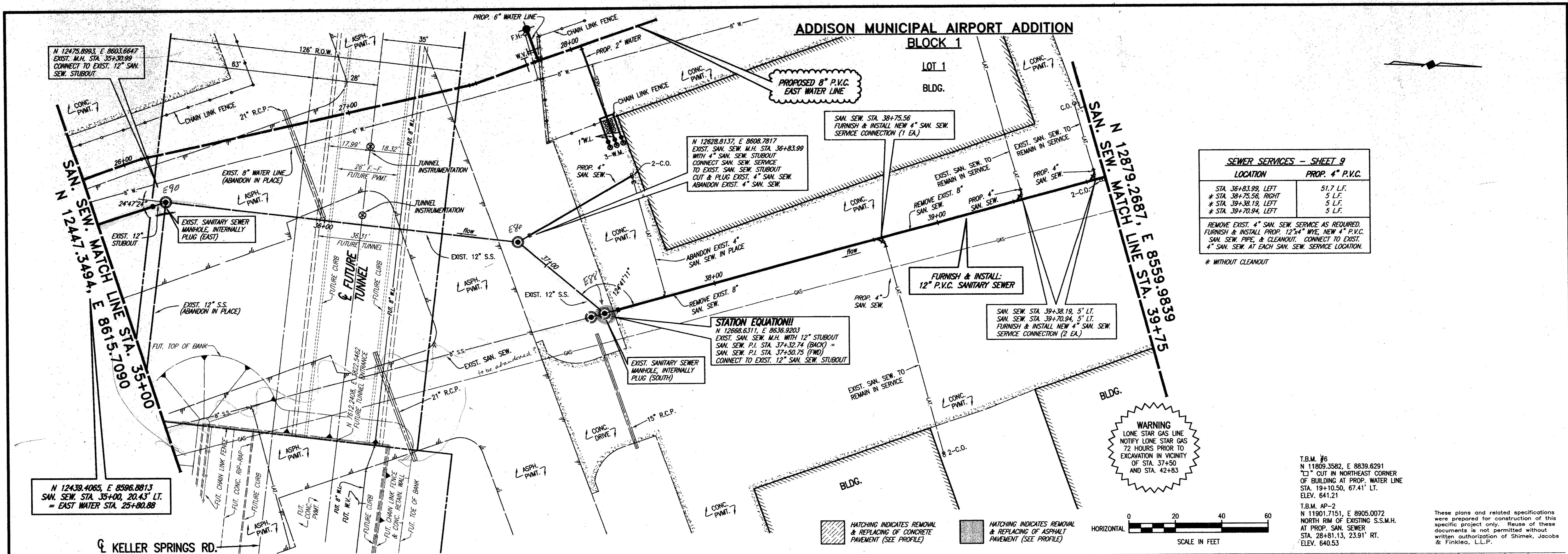
DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 8
DRAWN BY: S.J. & F. DATE: MARCH, 1997 OF 24 SHEETS

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

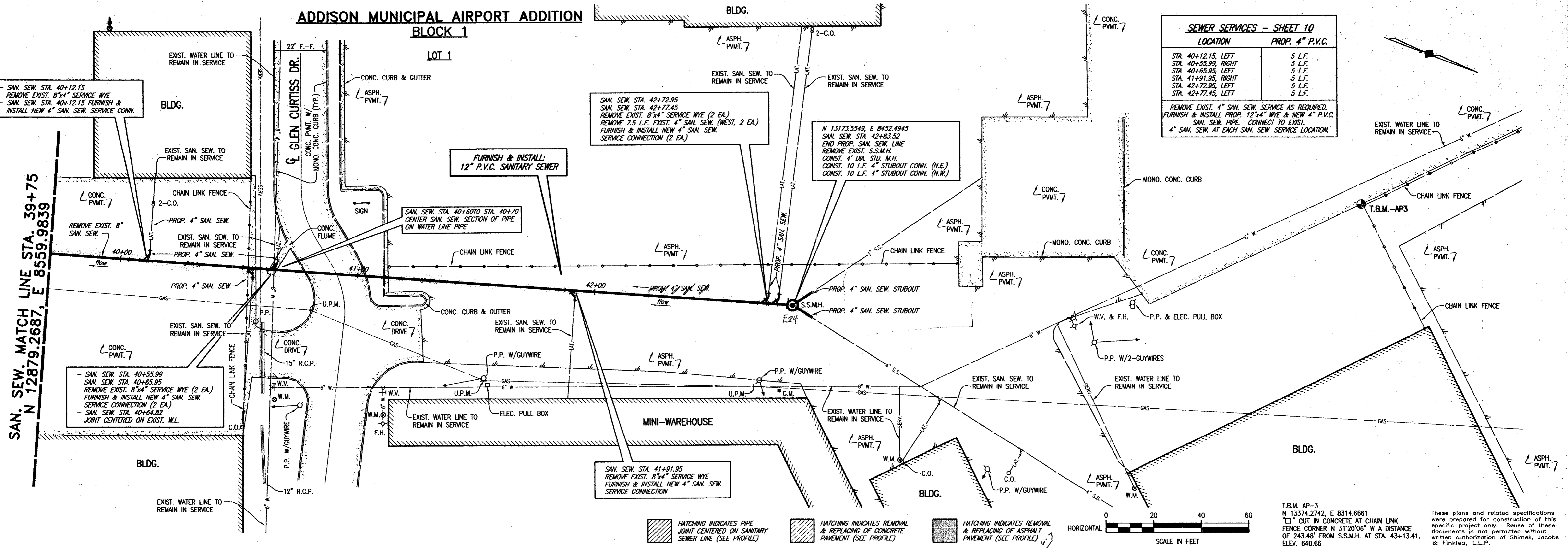
John W. Birkhoff

DATE: 9/5/97

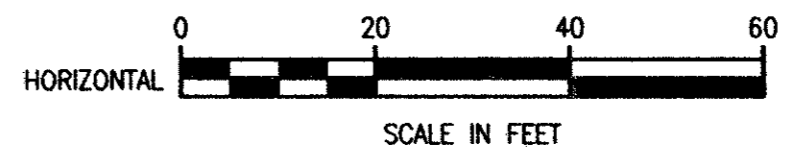




**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**

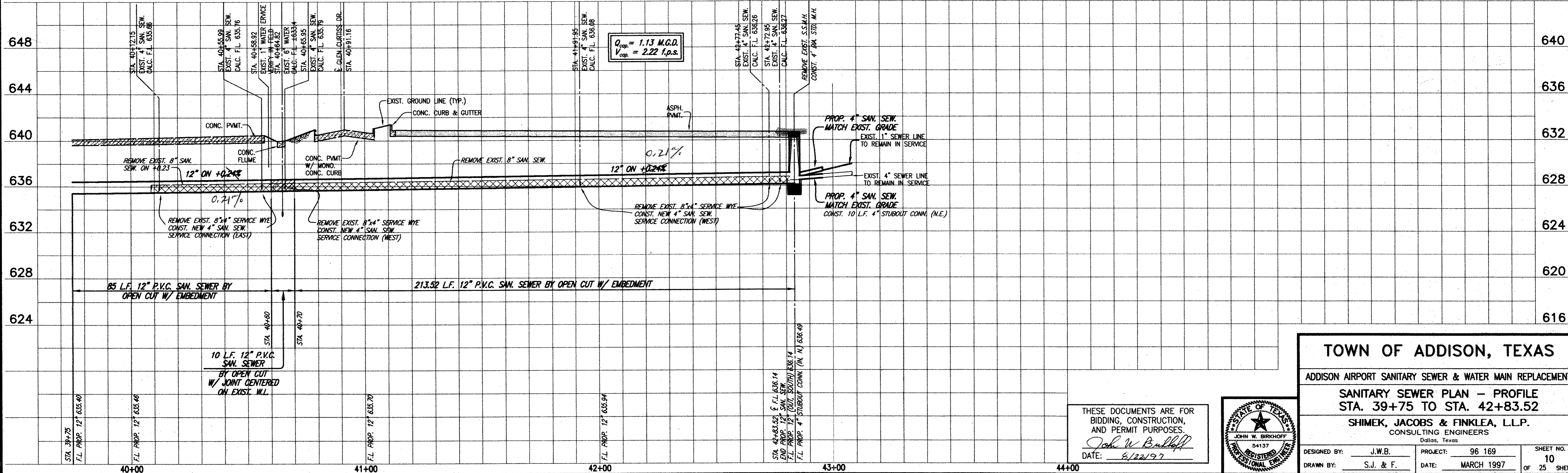


HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
 HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
 HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)



T.B.M. AP-3
 N 13374.2742, E 8314.6661
 "C" CUT IN CONCRETE AT CHAIN LINK FENCE CORNER N 31°20'06" W A DISTANCE OF 243.48' FROM S.S.M.H. AT STA. 43+13.41. ELEV. 640.66

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TOWN OF ADDISON, TEXAS

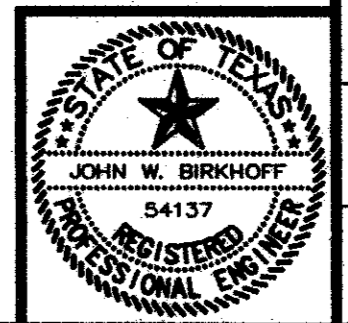
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

SANITARY SEWER PLAN - PROFILE
 STA. 39+75 TO STA. 42+83.52

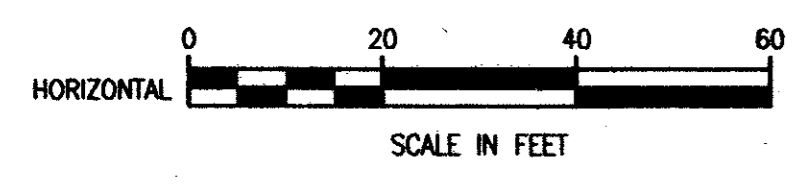
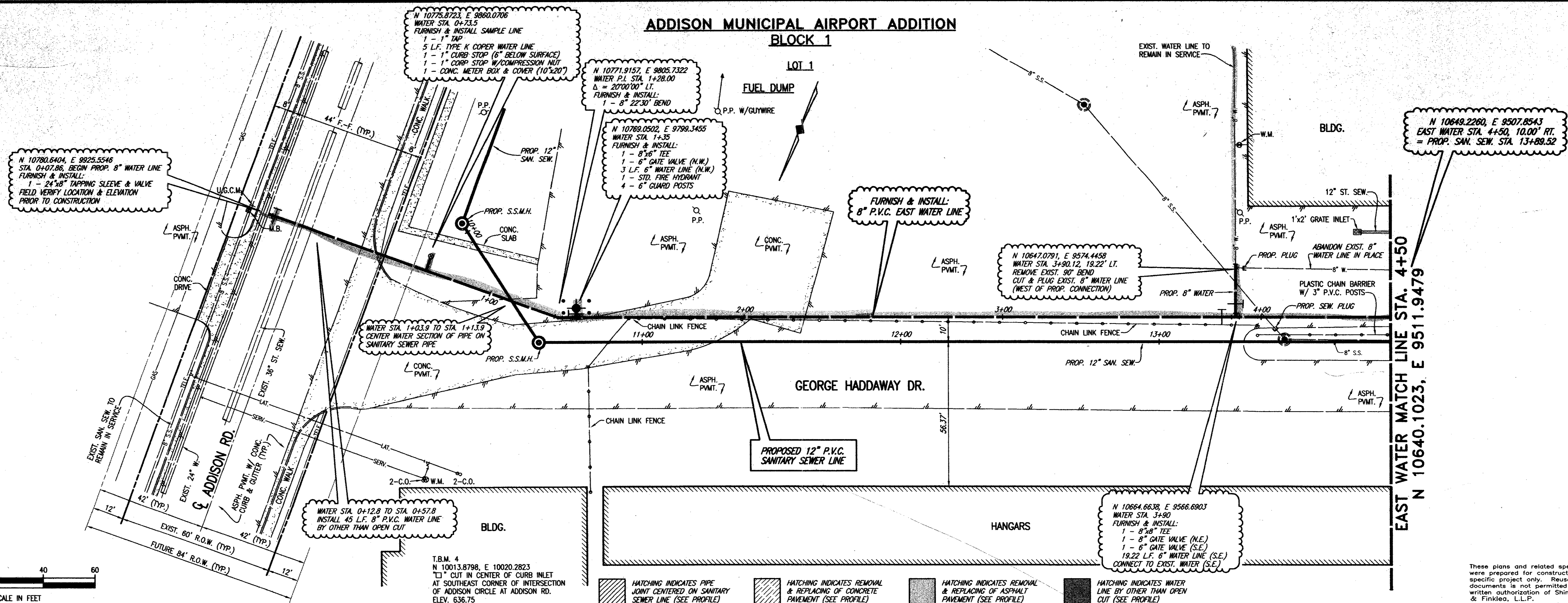
SHIMEK, JACOBS & FINKLEA, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 10
 DRAWN BY: S.J. & F. DATE: MARCH 1997 OF 25 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 John W. Bullhoff
 DATE: 3/22/97

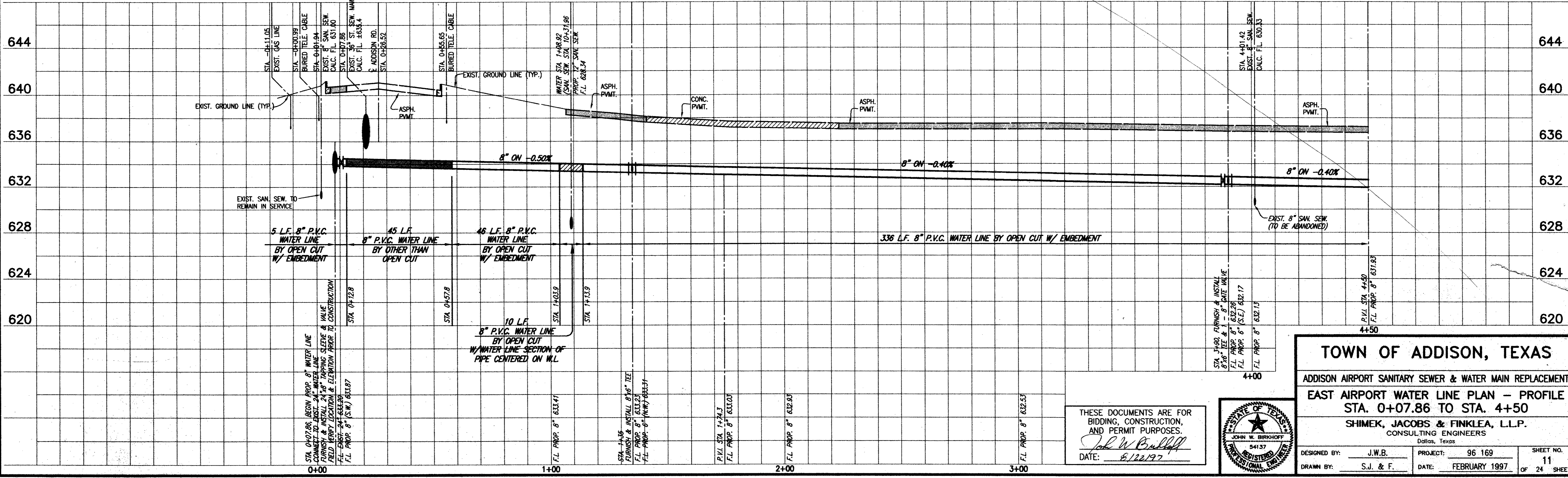


**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**

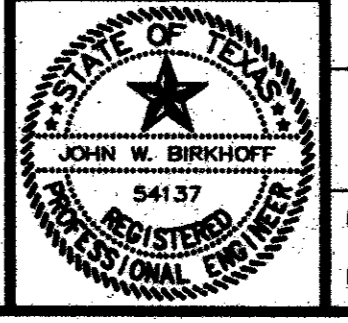


- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)

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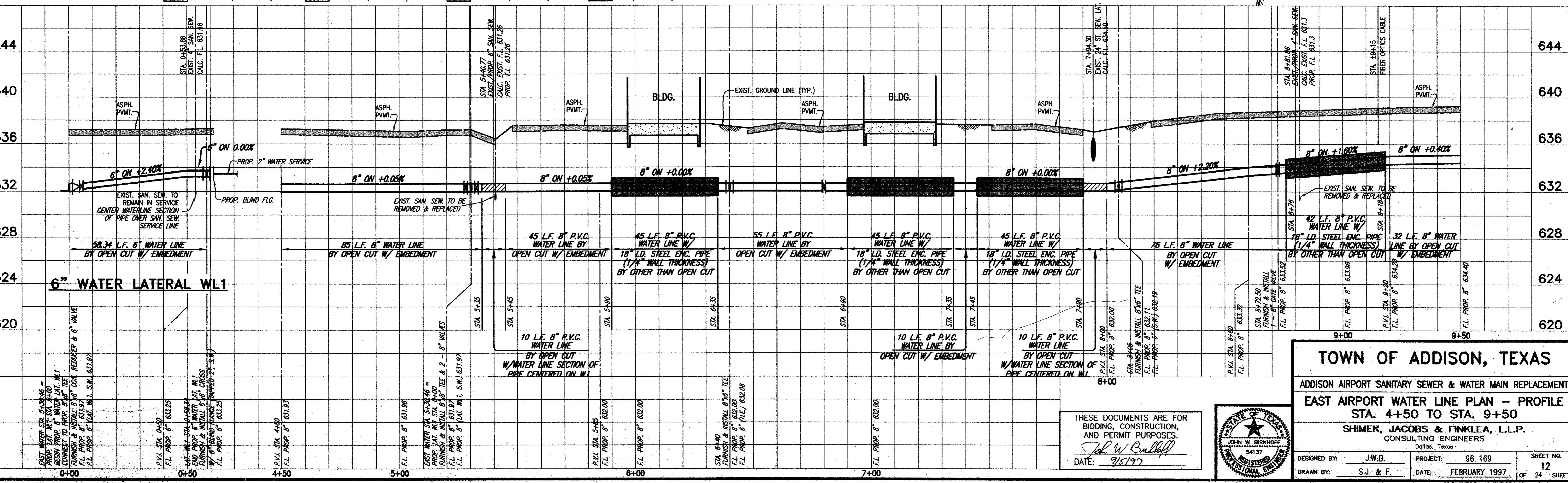
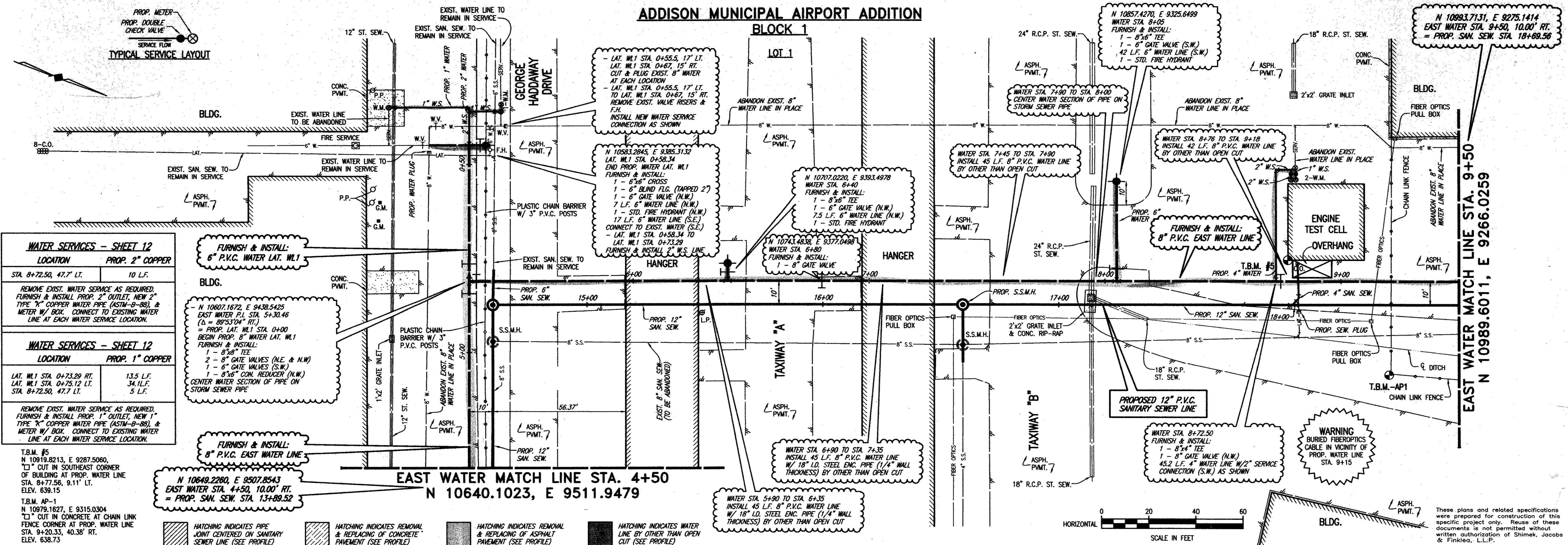
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 John W. Birkhoff
 DATE: 8/22/97



TOWN OF ADDISON, TEXAS
 ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
 EAST AIRPORT WATER LINE PLAN - PROFILE
 STA. 0+07.86 TO STA. 4+50
 SHIMEK, JACOBS & FINKLEA, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 11
 DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1



TOWN OF ADDISON, TEXAS
 ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
 EAST AIRPORT WATER LINE PLAN - PROFILE
 STA. 4+50 TO STA. 9+50
 SHIMEK, JACOBS & FINKLEA, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

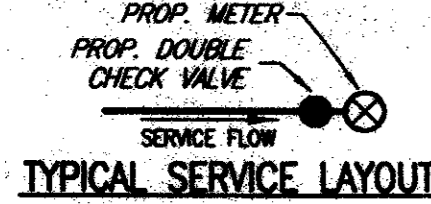
DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 12
 DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
 DATE: 9/5/97

WATER SERVICES - SHEET 13

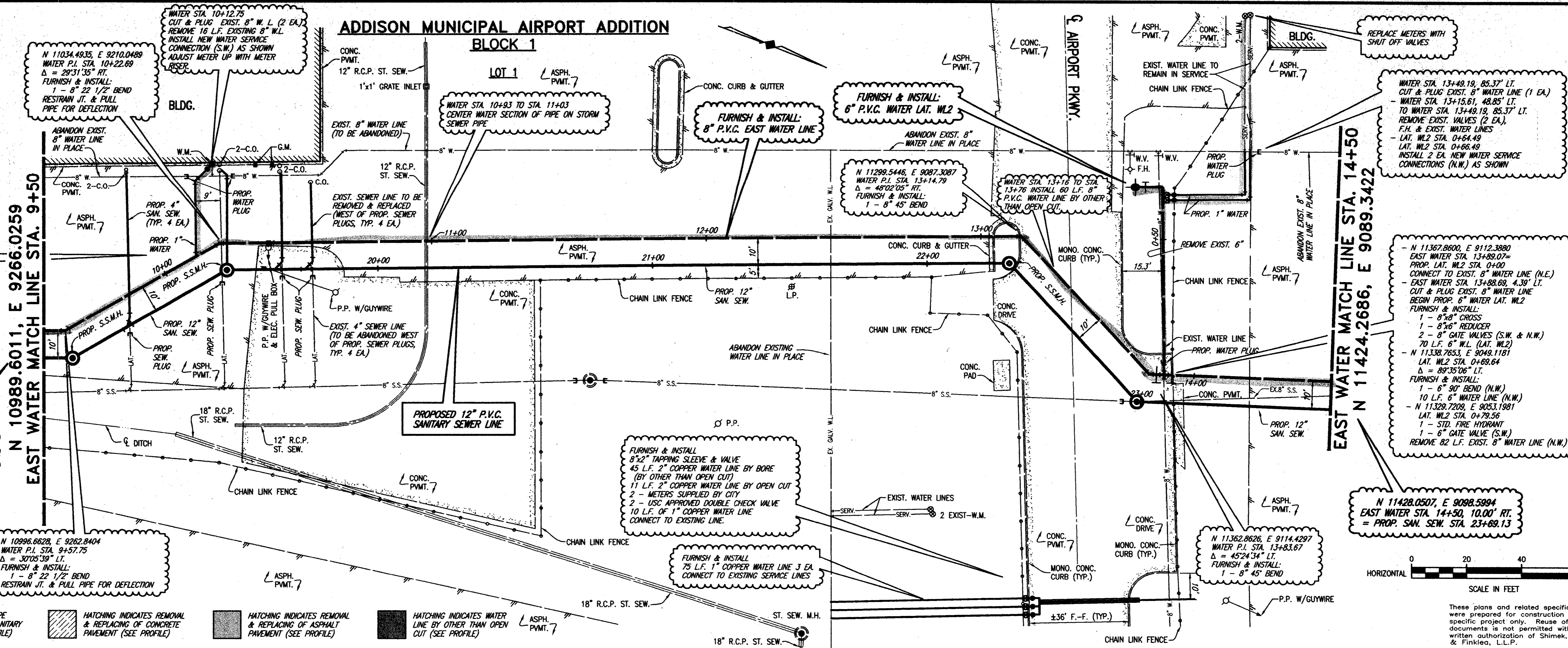
LOCATION		PROP. 1" COPPER
STA. 10+12.75, LEFT	37.72 L.F.	
LAT. WL2 STA. 0+64.49, RIGHT	45.06 L.F.	
LAT. WL2 STA. 0+66.49, RIGHT	48.89 L.F.	

REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "K" COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX. CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.



TYPICAL SERVICE LAYOUT
WATER STA. 9+79.7 TO STA. 9+89.7
WATER STA. 10+18.4 TO STA. 10+28.4
WATER STA. 10+40.3 TO STA. 10+50.3
WATER STA. 10+51.5 TO STA. 10+61.5
CENTER WATER SECTION OF PIPE ON SEWER SEWER PIPE

**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**



N 10993.7131, E 9275.1414
EAST WATER STA. 9+50, 10.00' RT.
= PROP. SAN. SEW. STA. 18+69.56

N 10993.6258, E 9266.0259
EAST WATER MATCH LINE STA. 9+50

N 10986.8628, E 9262.8404
WATER P.I. STA. 9+57.75
Δ = 30705.39' LT.
FURNISH & INSTALL:
1 - 8\"/>

T.B.M. #5
N 10919.8213, E 9287.5060,
"C" CUT IN SOUTHEAST CORNER
OF BUILDING AT PROP. WATER LINE.
STA. 8+77.56, 9.11' LT.
ELEV. 639.15

T.B.M. AP-1
N 10979.1627, E 9315.0304
"D" CUT IN CONCRETE AT CHAIN LINK
FENCE CORNER AT PROP. WATER LINE.
STA. 9+20.33, 40.38' RT.
ELEV. 638.73

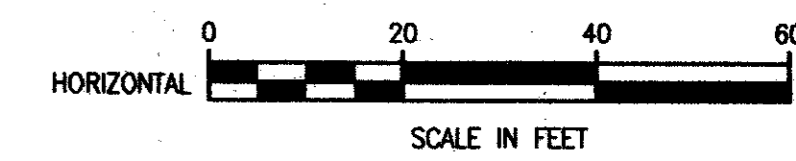
FURNISH & INSTALL
8 1/2\"/>

FURNISH & INSTALL
75 L.F. 1\"/>

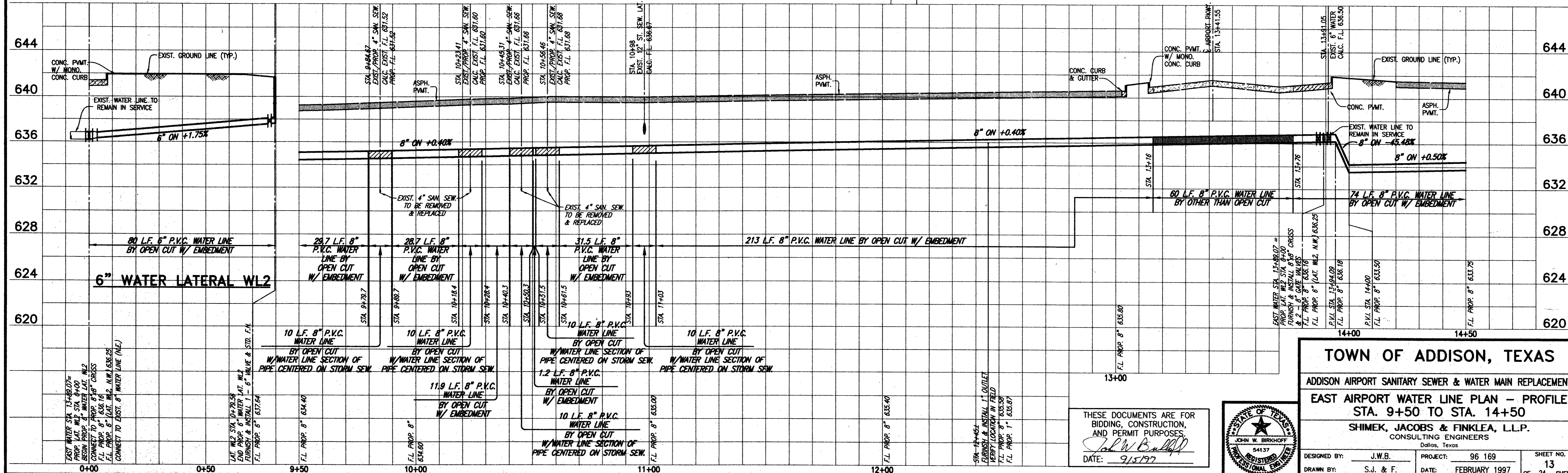
WATER STA. 13+49.19, 85.37' LT.
CUT & PLUG EXIST. 8\"/>

N 11367.8600, E 9112.3880
EAST WATER STA. 13+88.07 =
PROP. LAT. WL2 STA. 0+00
CONNECT TO EXIST. 8\"/>

N 11428.0507, E 9098.5994
EAST WATER STA. 14+50, 10.00' RT.
= PROP. SAN. SEW. STA. 23+69.13



These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Shimek, Jacobs & Finklea, L.L.P.

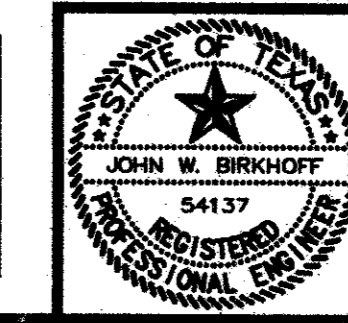


TOWN OF ADDISON, TEXAS
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
EAST AIRPORT WATER LINE PLAN - PROFILE
STA. 9+50 TO STA. 14+50

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 13
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
John W. Bullard
DATE: 9/5/97



**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**

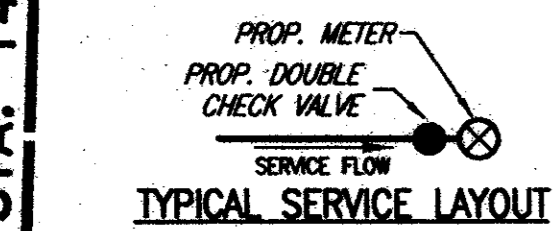
N 11424.2686, E 9089.3422
EAST WATER MATCH LINE STA. 14+50

N 11876.0711, E 8880.2932
EAST WATER MATCH LINE STA. 19+50

WATER SERVICES - SHEET 14

LOCATION	PROP. 1" COPPER
STA. 17+68 LEFT STA. 17+68.5, RIGHT	123 L.F. 82 L.F.

REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "K" COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX. CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.



FURNISH & INSTALL:
8" P.V.C. EAST WATER LINE

N 11642.9182, E 9000.0129
WATER STA. 16+86.19
FURNISH & INSTALL:
1 - 8" x 6" TEE
1 - 6" GATE VALVE (S.W.)
56 L.F. 6" WATER LINE (S.W.)
1 - STD. FIRE HYDRANT

WATER STA. 17+55 TO STA. 17+65
CENTER WATER SECTION OF PIPE ON
SANITARY SEWER PIPES

WATER STA. 18+58.64, 13.10' RT.
CUT & PLUG EXIST. 6" WATER

STATION EQUATION!!
N 11686.6666, E 8982.1394
WATER P.I. STA. 17+33.45 BACK-
WATER P.I. STA. 17+34.95 (FWD)
Δ = 6'02'43" LT.
RESTRAIN JT. & PULL
PIPE FOR DEFLECTION

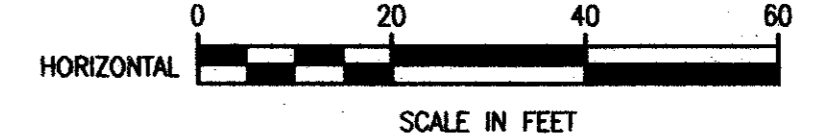
N 11702.8467, E 8973.4391
WATER STA. 17+51.26, 57' RT.
CUT & PLUG EXIST. SERV. LINE
N 11716.2161, E 8966.2502
WATER STA. 17+68.5
1 - 1" OUTLET
82 L.F. 1" COPPER WATER LINE
BY OPEN CUT
INSTALL NEW WATER METER W/ BOX &
SERVICE CONNECTION (N.W.) AS SHOWN

WATER STA. 17+91.26, 57' RT.
CUT & PLUG EXIST. SERV. LINE
N 11716.2161, E 8966.2502
WATER STA. 17+68.5
1 - 1" OUTLET
82 L.F. 1" COPPER WATER LINE
BY OPEN CUT
INSTALL NEW WATER METER W/ BOX &
SERVICE CONNECTION (N.E.) AS SHOWN

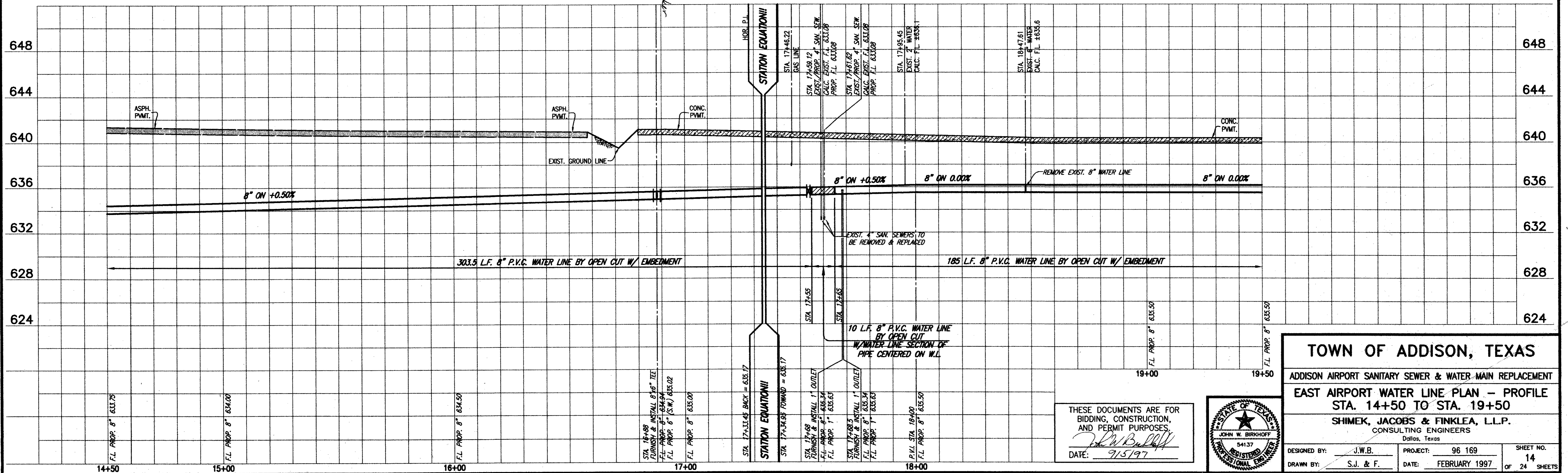
N 11880.8071, E 8889.1007
EAST WATER STA. 19+50, 10.00' RT.
= PROP. SAN. SEW. STA. 28+70.25

T.B.M. #6
N 11809.3582, E 8839.6291
" " CUT IN NORTHEAST CORNER
OF BUILDING AT PROP. WATER LINE
STA. 19+10.50, 67.41' LT.
ELEV. 641.21
T.B.M. AP-1
N 10979.1627, E 9315.0304
" " CUT IN CONCRETE AT CHAIN LINK
FENCE CORNER AT PROP. WATER LINE
STA. 9+20.33, 40.38' RT.
ELEV. 638.73

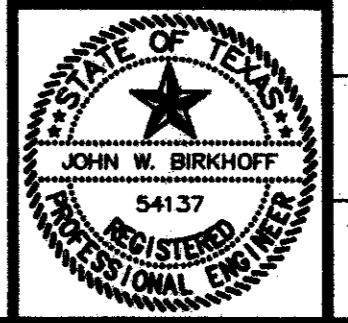
- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)



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THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
J.W.B.
DATE: 7/3/97



TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
EAST AIRPORT WATER LINE PLAN - PROFILE
STA. 14+50 TO STA. 19+50

SHIMEK, JACOBS & FINKLEE, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

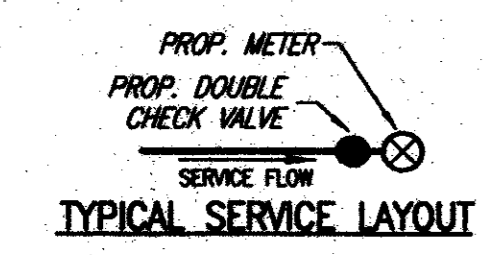
DESIGNED BY: J.W.B.	PROJECT: 96 169	SHEET NO. 14
DRAWN BY: S.J. & F.	DATE: FEBRUARY 1997	OF 24 SHEETS

**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**

WATER SERVICES - SHEET 15

LOCATION	PROP. 1" COPPER
STA. 20+53, RIGHT (NO METER OR CHECK VAL. REQUIRED)	21 L.F.
STA. 21+14, LEFT	70 L.F.
STA. 23+33, RIGHT	100 L.F.

REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "C" COPPER WATER PIPE (ASTM-B-88) & METER W/ BOX. CONNECT TO EXIST. WATER

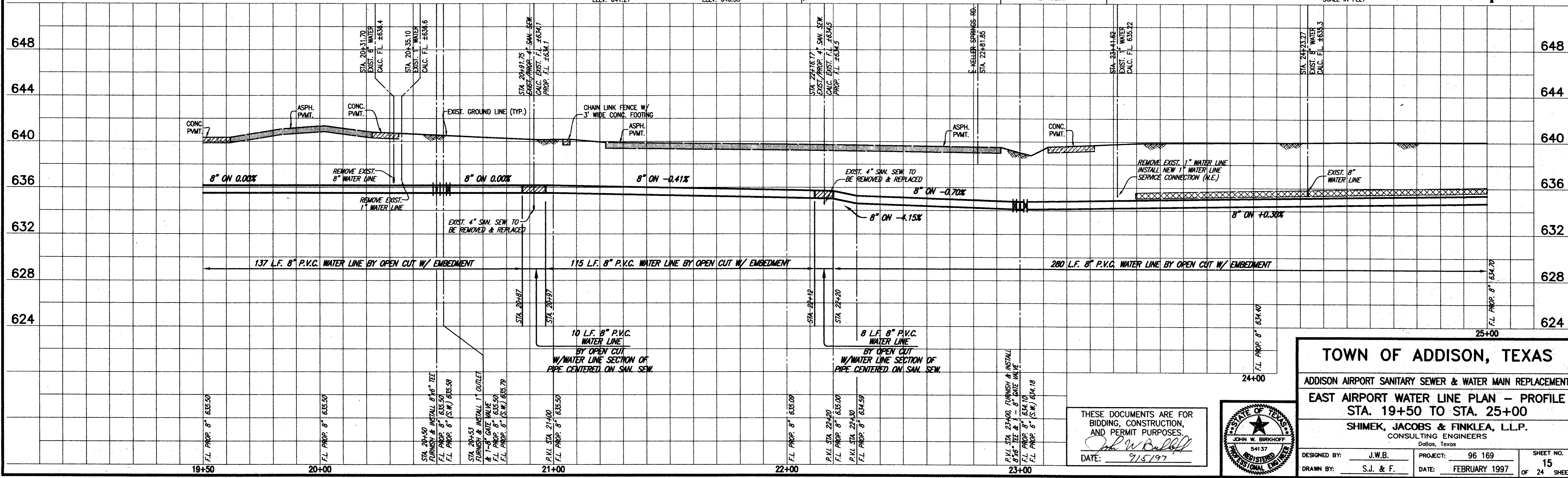
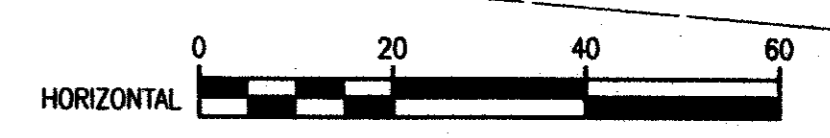
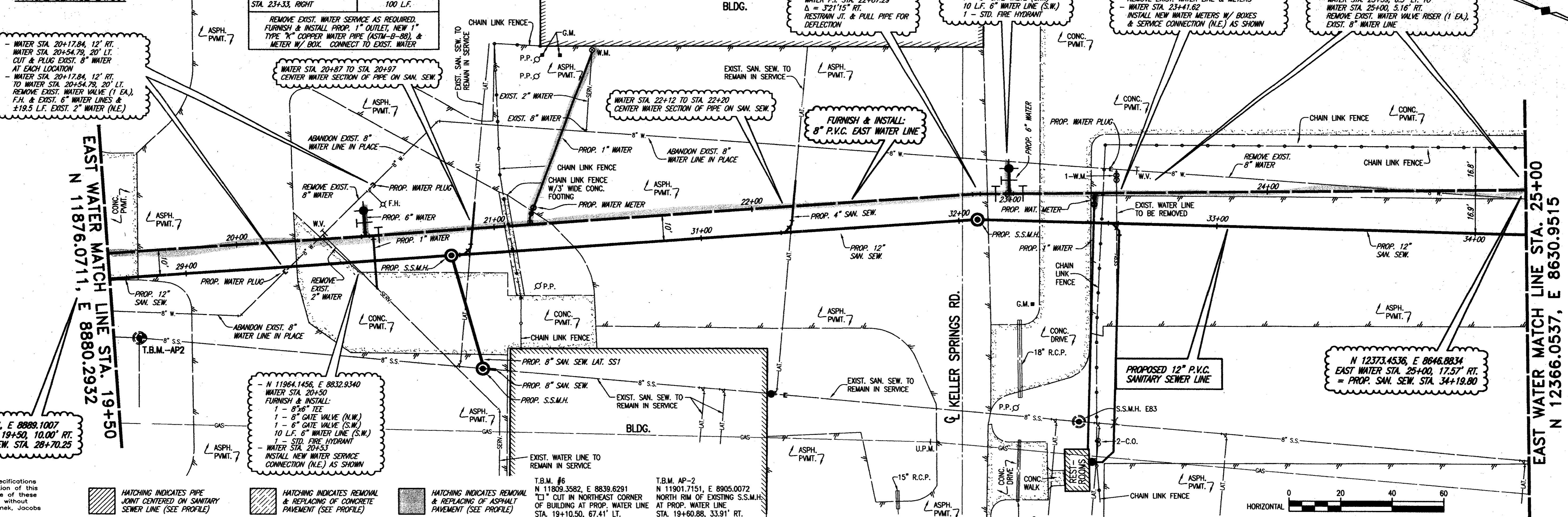


- WATER STA. 20+17.84, 12' RT. TO WATER STA. 20+54.79, 20' LT. CUT & PLUG EXIST. 8" WATER AT EACH LOCATION
- WATER STA. 20+17.84, 12' RT. TO WATER STA. 20+54.79, 20' LT. REMOVE EXIST. WATER VALVE (1 EA.), F.H. & EXIST. 6" WATER LINES & ±19.5 L.F. EXIST. 2" WATER (N.E.)

EAST WATER MATCH LINE STA. 19+50
N 11876.0711, E 8880.2932

HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)
HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)

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TOWN OF ADDISON, TEXAS
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
EAST AIRPORT WATER LINE PLAN - PROFILE
STA. 19+50 TO STA. 25+00
SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 15
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: 7/5/97

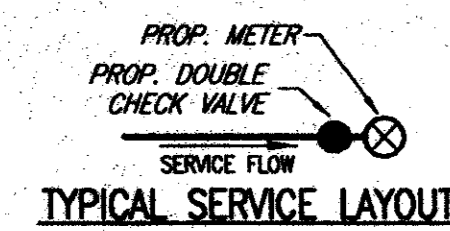
**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**

N 12373.4536, E 8646.8834
EAST WATER STA. 25+00, 17.57' RT.
= PROP. SAN. SEW. STA. 34+19.80

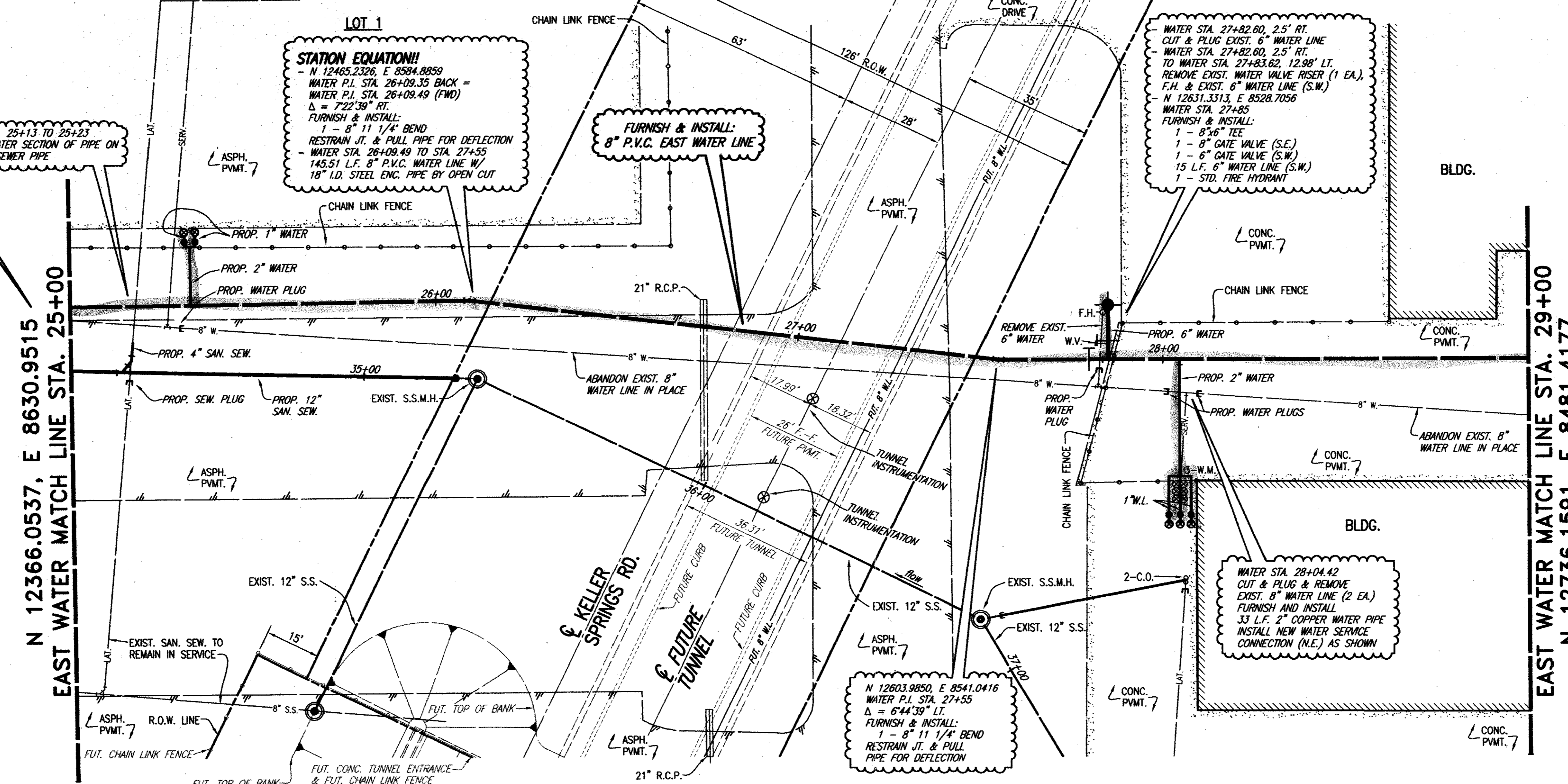
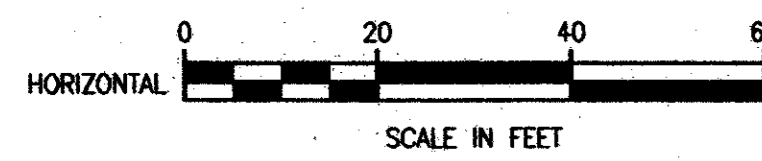
STATION EQUATION!!
N 12463.2326, E 8594.8850
WATER P.I. STA. 26+08.35 BACK =
WATER P.I. STA. 26+08.49 (FWD)
Δ = 7'22.39" RT.
FURNISH & INSTALL:
1 - 8" 11 1/4" BEND
RESTRAIN J.T. & PULL PIPE FOR DEFLECTION
WATER STA. 26+08.49 TO STA. 27+55
145.51 L.F. 8" P.V.C. WATER LINE W/
18" I.D. STEEL ENC. PIPE BY OPEN CUT

WATER STA. 27+82.80, 2.5' RT.
CUT & PLUG EXIST. 6" WATER LINE
TO WATER STA. 27+82.60, 2.5' RT.
REMOVE EXIST. WATER VALVE RISER (1 EA.)
F.H. & EXIST. 6" WATER LINE (S.W.)
N 12631.3313, E 8528.7056
WATER STA. 27+85
FURNISH & INSTALL:
1 - 8" TEE
1 - 6" GATE VALVE (S.E.)
1 - 6" GATE VALVE (S.W.)
15 L.F. 6" WATER LINE (S.W.)
1 - STD. TEE HYDRANT

N 12603.9850, E 8541.0416
WATER P.I. STA. 27+55
Δ = 6'44.35" LT.
FURNISH & INSTALL:
1 - 8" 11 1/4" BEND
RESTRAIN J.T. & PULL
PIPE FOR DEFLECTION



- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)



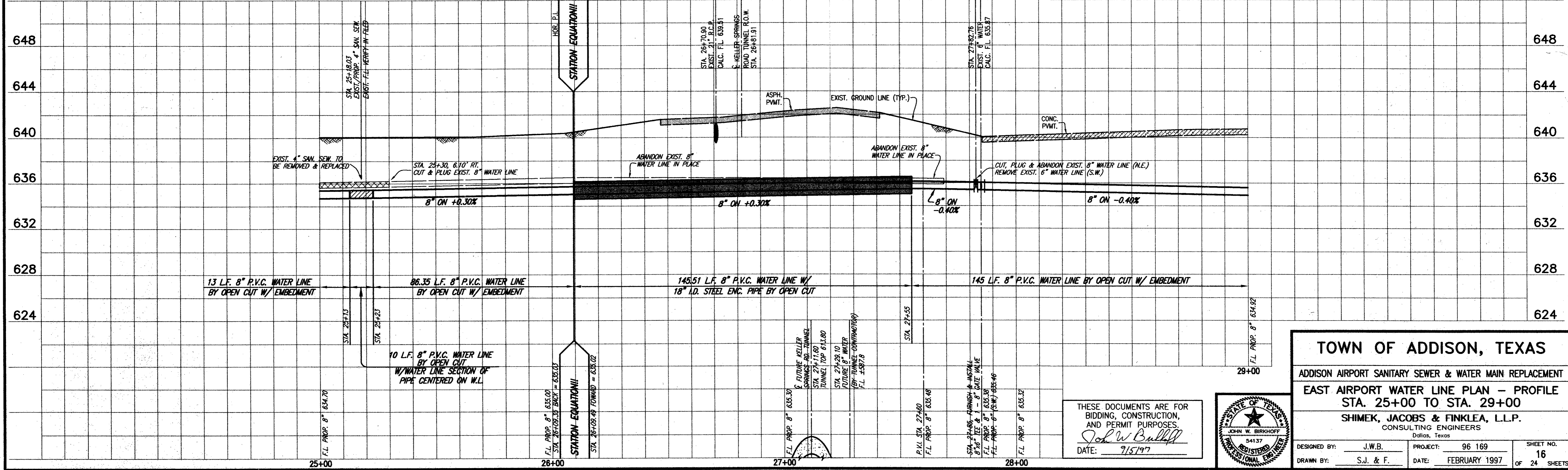
WATER SERVICES - SHEET 16

LOCATION	PROP. 1" COPPER
STA. 25+33, 16.21' LT.	3 L.F.
STA. 25+33, 16.21' RT.	3 L.F.
STA. 28+07.42, 32.65' RT.	13.3 L.F.
STA. 28+04.42, 32.65' RT.	13.3 L.F.
STA. 28+07.42, 32.65' RT.	13.3 L.F.

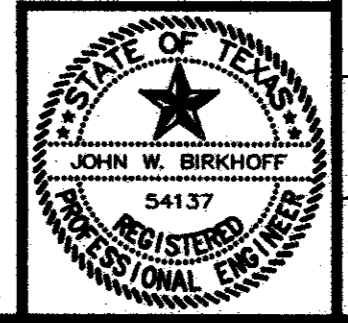
REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "K" COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX. CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.

T.B.M. #6
N 11809.3582, E 8839.6291
"C" CUT IN NORTHEAST CORNER OF BUILDING AT PROP. WATER LINE STA. 19+10.50, 67.41' LT. ELEV. 641.21
T.B.M. AP-2
N 11901.7151, E 8905.0072
NORTH RIM OF EXISTING S.S.M.H. AT PROP. WATER LINE STA. 19+60.88, 33.91' RT. ELEV. 640.53

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THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
John W. Bullitt
DATE: 7/5/97



TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
EAST AIRPORT WATER LINE PLAN - PROFILE
STA. 25+00 TO STA. 29+00

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 96 169	SHEET NO. 16
DRAWN BY: S.J. & F.	DATE: FEBRUARY 1997	OF 24 SHEETS

**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**

LOT 1
BLDG.

- WATER STA. 29+81.00, 2.50' RT. CUT & PLUG EXIST. 8" WATER LINE
- WATER STA. 29+81.00, 2.50' RT. TO WATER STA. 29+83, 16.44' LT. REMOVE EXIST. 6" WATER LINE
- N 12811.8173, E 8447.2881 WATER STA. 29+83
FURNISH & INSTALL:
1 - 8" x 6" TEE
1 - 8" GATE VALVE (N.W.)
16.44' L.F. 6" WATER LINE (S.E.)
- N 12805.0577, E 8432.3034 WATER STA. 29+83, 16.44' LT. CONNECT PROP. 6" WATER LINE TO EXIST. 6" WATER VALVE

N 12914.8220, E 8400.8226 WATER P.I. STA. 30+98
L = 90700'00" RT.
FURNISH & INSTALL:
1 - 8" 90° BEND

N 12927.0539, E 8427.9382 STA. 31+25.75, END PROP. 8" WATER LINE
FURNISH & INSTALL:
1 - 8" x 6" TEE
1 - 8" x 6" REDUCER
REMOVE EXIST. 6" x 6" TEE
CONNECT PROP. TEE TO EXIST. 6" WATER LINES (N.E. & N.W.)
CUT & PLUG EXIST. 6" WATER (S.E.)

FURNISH & INSTALL:
8" P.V.C. EAST WATER LINE

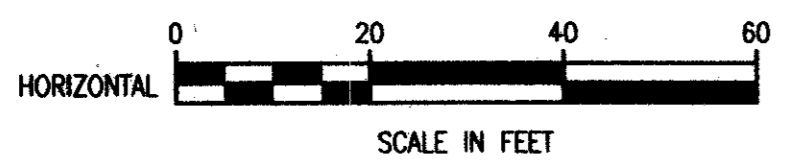
PROPOSED 12" P.V.C. SANITARY SEWER LINE
(SEE SHEET 10)

WATER SERVICES - SHEET 17

LOCATION	PROP. 1" COPPER
STA. 29+95.04, LEFT	17 L.F.
STA. 29+97.43, LEFT	21 L.F.
STA. 30+23.88, RIGHT	34 L.F.
STA. 31+23.36, RIGHT	19 L.F.

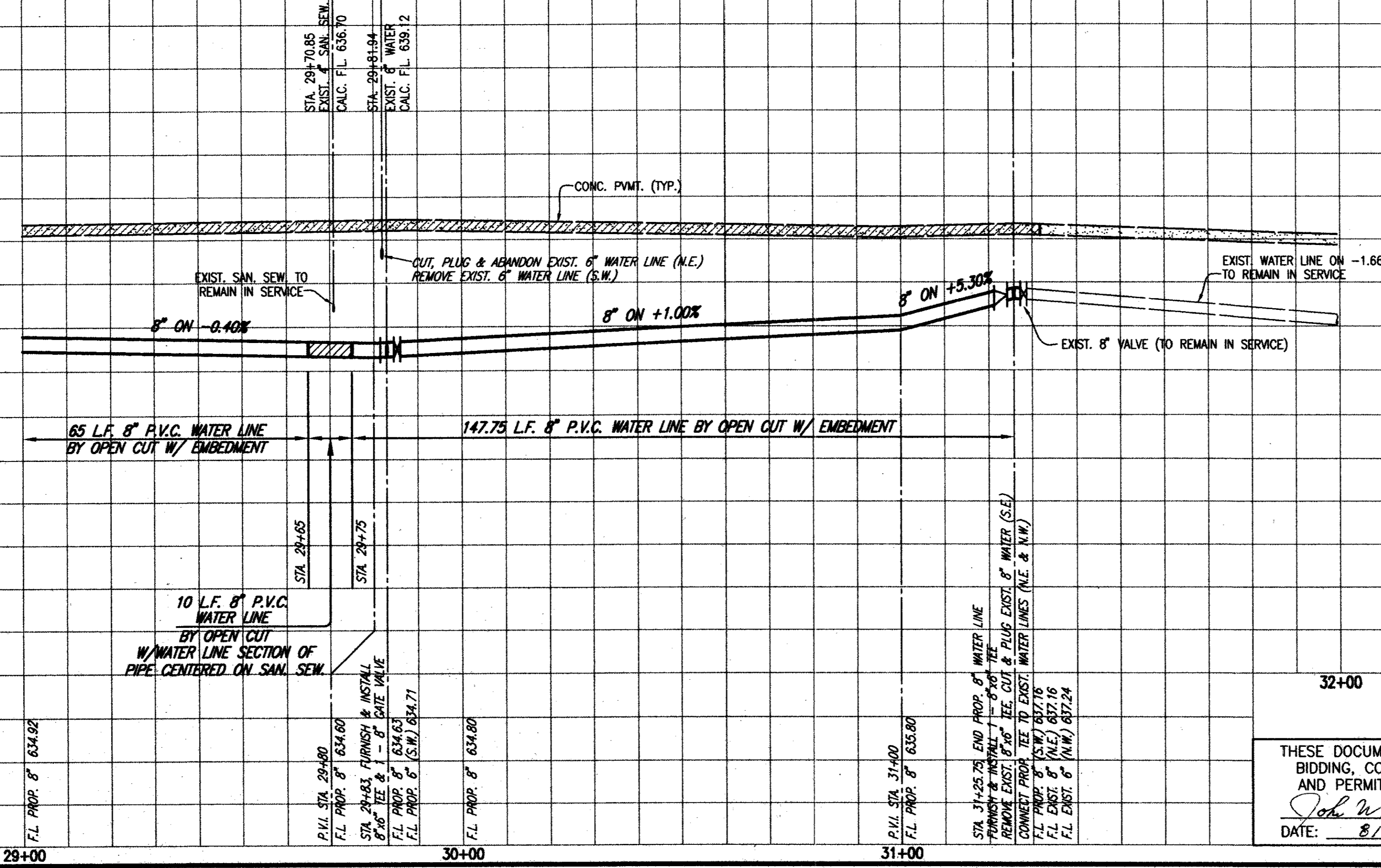
REMOVE EXIST. WATER SERVICE AS REQUIRED, FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "K" COPPER WATER PIPE (ASTM-A-80) & METER W/ BOX. CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.

- HATCHING INDICATES PIPE JOINT CENTERED ON SANITARY SEWER LINE (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)



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EAST WATER MATCH LINE STA. 12736.1561
E 8481.4177 STA. 29+00



TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
EAST AIRPORT WATER LINE PLAN - PROFILE
STA. 29+00 TO STA. 31+25.75

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 17
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
John W. Brubaker
DATE: 8/22/97

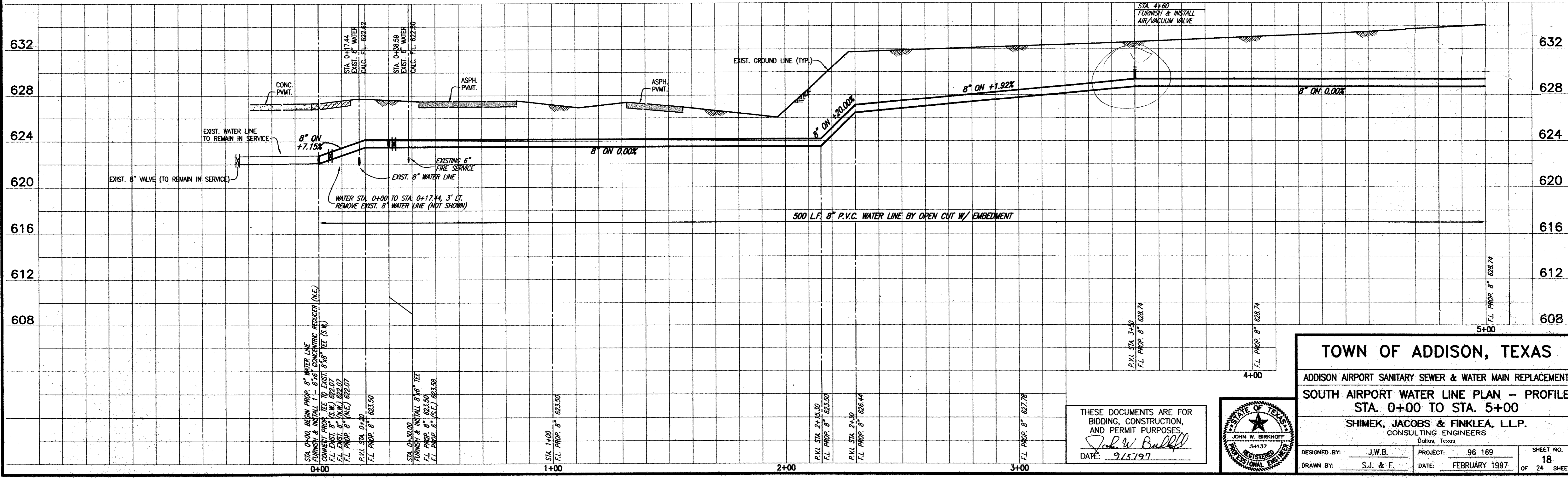
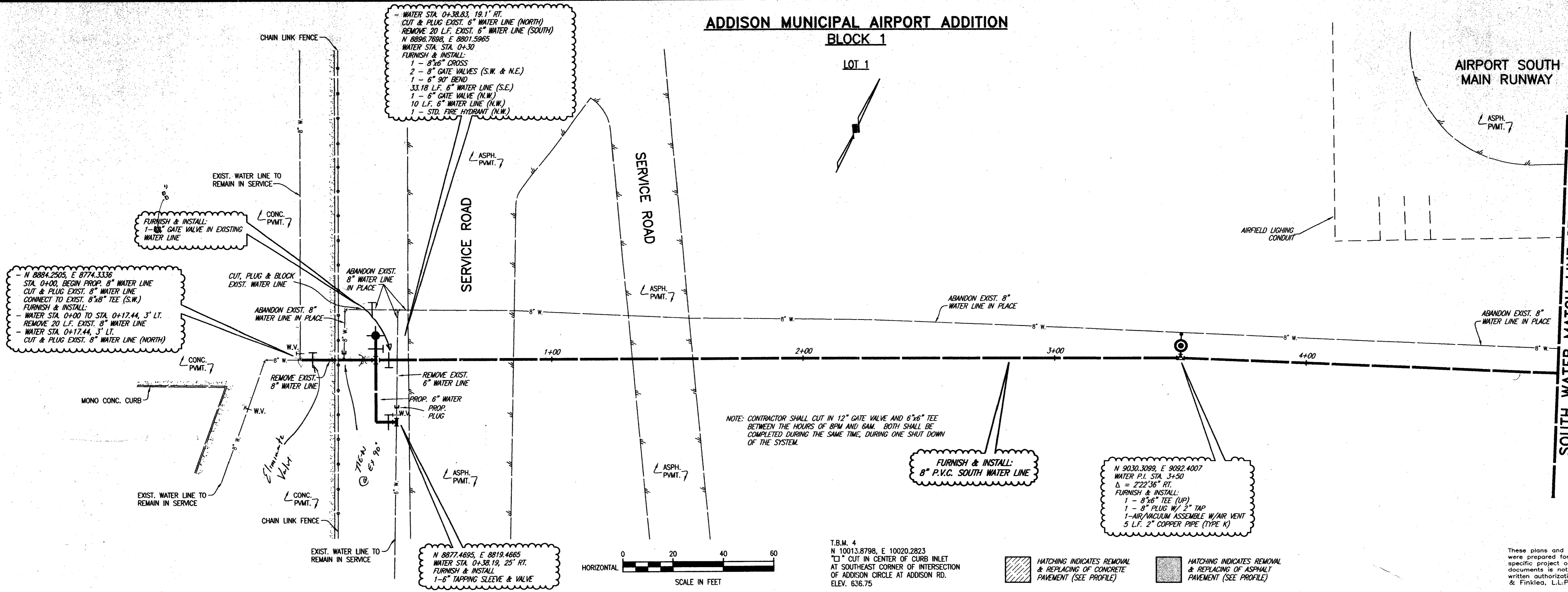
ADDISON MUNICIPAL AIRPORT ADDITION

BLOCK 1

LOT 1

AIRPORT SOUTH MAIN RUNWAY

SOUTH WATER MATCH LINE STA. 5+00
N 9087.2003, E 9231.1936



ADDISON MUNICIPAL AIRPORT ADDITION

BLOCK 1

N 9087.2003, E 9231.1936
SOUTH WATER MATCH LINE STA. 5+00

SOUTH WATER MATCH LINE STA. 10+00
N 9280.6311, E 9692.2194

AIRPORT SOUTH MAIN RUNWAY

LOT 1

EAST SIDE SERVICE RD.

ASPH. PVMT. 7

ASPH. PVMT. 7

ASPH. PVMT. 7

ABANDON EXIST. 8" WATER LINE IN PLACE

ABANDON EXIST. 8" WATER LINE IN PLACE

PROP. 6" WATER
REMOVE EXIST. 8" WATER LINE

ABANDON EXIST. 8" WATER LINE IN PLACE

Temporary Schedule Week of Dec. 29-31

FURNISH & INSTALL:
8" P.V.C. SOUTH WATER LINE

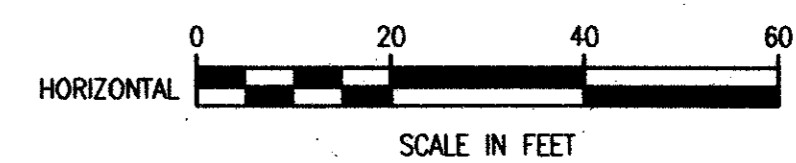
N 9219.9445, E 9555.0439
WATER P.I. STA. 8+50
L = 1'34"34" LT.
RESTRAIN J.T. & PULL PIPE FOR DEFLECTION

- WATER STA. 9+42, 9.81' LT.
WATER STA. 9+48, 9.81' LT.
CUT & PLUG EXIST. 8" WATER AT EACH LOCATION
- WATER STA. 9+42, 9.81' LT. TO WATER STA. 9+48, 9.81' LT. REMOVE 6 L.F. EXIST. 8" WATER LINE
- N 9258.3793, E 9641.9217
WATER STA. 9+45
FURNISH & INSTALL:
1 - 8" GATE VALVE (S.E.)
1 - 8" GATE VALVE (N.W.)
20 L.F. 6" WATER LINE (N.W.)
1 - STD. FIRE HYDRANT

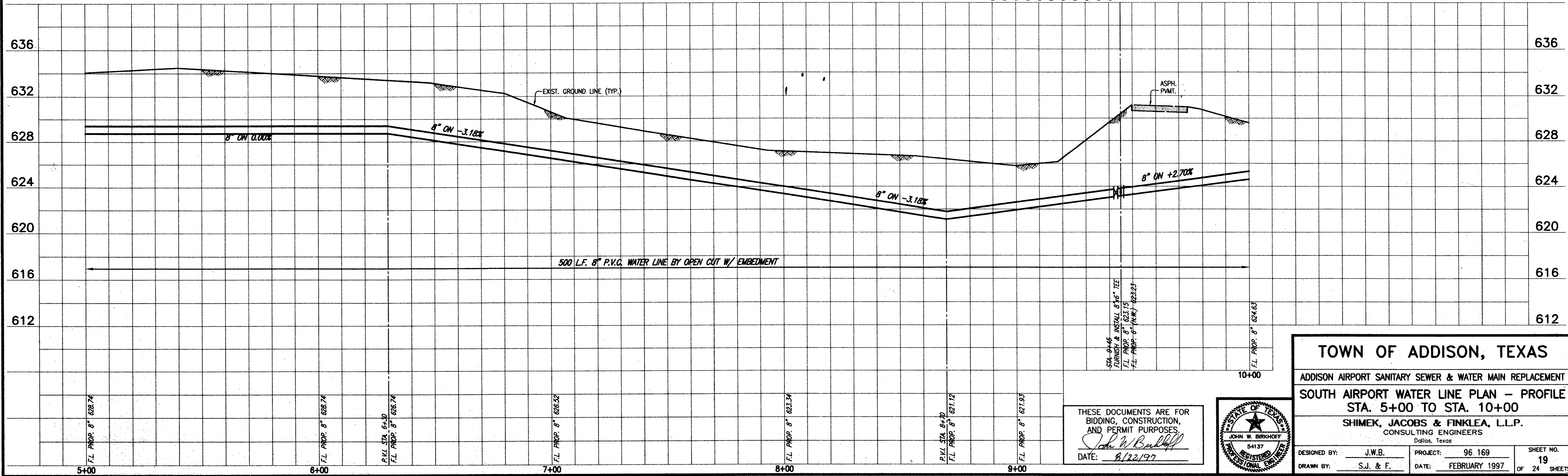
T.B.M. 4
N 10013.8798, E 10020.2823
"C" CUT IN CENTER OF CURB INLET AT SOUTHEAST CORNER OF INTERSECTION OF ADDISON CIRCLE AT ADDISON RD. ELEV. 636.75

HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)

HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)



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TOWN OF ADDISON, TEXAS

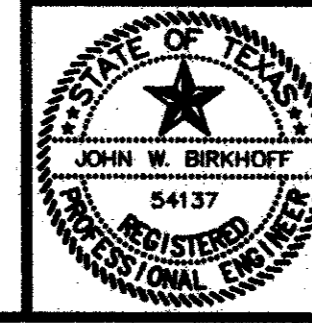
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

SOUTH AIRPORT WATER LINE PLAN - PROFILE
STA. 5+00 TO STA. 10+00

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 19
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
John W. Bullock
DATE: 8/22/97



**ADDISON MUNICIPAL AIRPORT ADDITION
BLOCK 1**

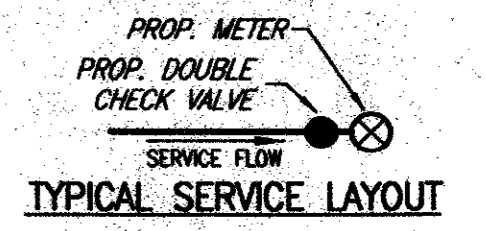
SOUTH WATER MATCH LINE STA. 10+00
N 9280.6311, E 9692.2194

LOT 1
TAXIWAY

BLDG.

TAXIWAY

ADDISON RD.



WATER SERVICES - SHEET 20

LOCATION	PROP. 2" COPPER
STA. 10+95, RIGHT	15 L.F.

REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 2" OUTLET, NEW 2" TYPE "X" COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX. CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.

WATER SERVICES - SHEET 20

LOCATION	PROP. 1" COPPER
STA. 12+95.02, RIGHT	7.9 L.F.
STA. 12+97.08, RIGHT	7.9 L.F.

REMOVE EXIST. WATER SERVICE AS REQUIRED. FURNISH & INSTALL PROP. 1" OUTLET, NEW 1" TYPE "X" COPPER WATER PIPE (ASTM-B-88), & METER W/ BOX. CONNECT TO EXIST. WATER LINE AT EACH WATER SERVICE LOCATION.

WATER STA. 10+95
FURNISH & INSTALL
2" WATER SERVICE
5 L.F. 2" W.L.
1-2" CORP. STOP
IN METER BOX

FURNISH & INSTALL:
8" P.V.C. SOUTH WATER LINE

W.L. CURVE DATA
P.C. STA. 10+53.72
N 9302.3654, E 9741.3474
P.I. STA. 11+03.95
N 9322.6854, E 9787.2787
P.T. STA. 11+53.25
N 9326.9373, E 9837.3237
Δ = 19°00'30"
R = 300.00'
T = 50.23'
L = 99.53'

P.T. STA. 11+53.25
N 9325.4875, E 9823.8662
WATER STA. 11+39.71
FURNISH & INSTALL:
1 - 8" GATE VALVE (WEST)
1 - 8"x6" TEE
1 - 6" GATE VALVE (NORTH)
WATER STA. 11+39.71, 22.85' LT.
Δ = 16°29'23" LT.
FURNISH & INSTALL:
1 - 6" 11 1/4" BEND
N 9357.5849, E 9816.7309
FURNISH & INSTALL:
33 L.F. 6" W.L.
1 - STD. FIRE HYDRANT

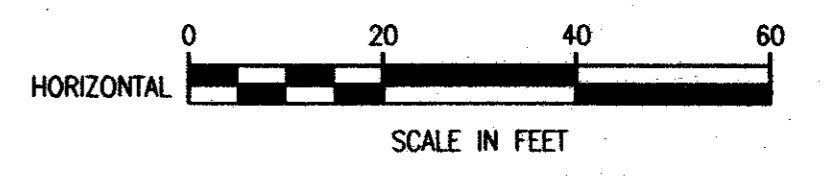
WATER STA. 12+93.08, 5.10' LT.
TO WATER STA. 12+99.01, 5.10' LT.
CUT & PLUG (2 EA.) & REMOVE
6 L.F. EXIST. 8" WATER LINE
WATER STA. 12+95.02 & STA. 12+97.08
INSTALL NEW WATER SERVICE
CONNECTIONS (2 EA., SOUTH) AS SHOWN

WATER STA. 13+01.5 TO STA. 13+36.5
INSTALL 35 L.F. 8" P.V.C. WATER LINE
BY OTHER THAN OPEN CUT

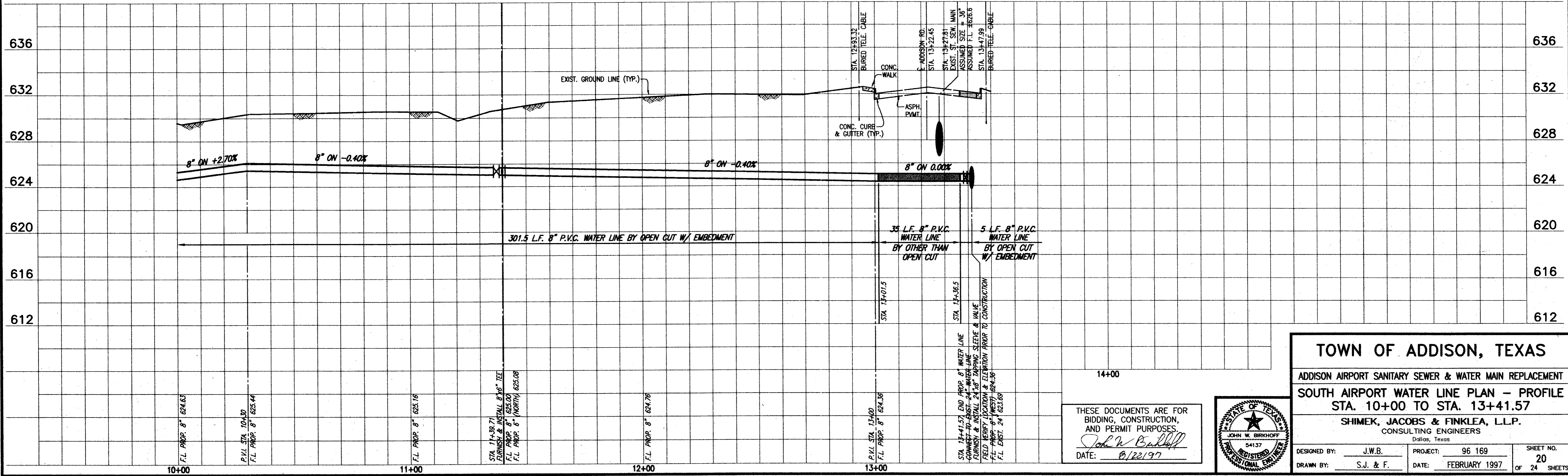
N 9342.8796, E 10024.9648
STA. 13+41.57, END PROP. 8" WATER LINE
FURNISH & INSTALL:
1 - 24"x8" TAPPING SLEEVE & VALVE
FIELD VERIFY LOCATION & ELEVATION
PRIOR TO CONSTRUCTION

- HATCHING INDICATES WATER LINE BY OTHER THAN OPEN CUT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF ASPHALT PAVEMENT (SEE PROFILE)
- HATCHING INDICATES REMOVAL & REPLACING OF CONCRETE PAVEMENT (SEE PROFILE)

T.B.M. 4
N 10013.8798, E 10020.2823
"I" CUT IN CENTER OF CURB INLET
AT SOUTHEAST CORNER OF INTERSECTION
OF ADDISON CIRCLE AT ADDISON RD.
ELEV. 636.75



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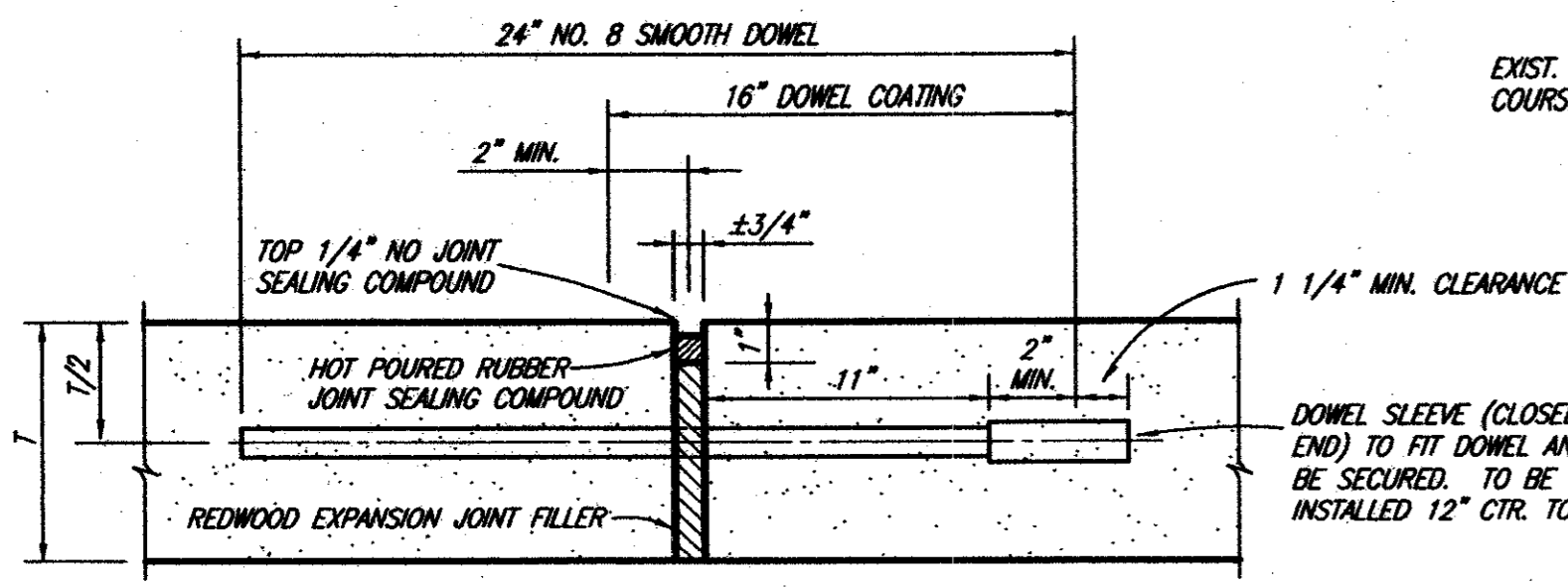
TOWN OF ADDISON, TEXAS

ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
SOUTH AIRPORT WATER LINE PLAN - PROFILE
STA. 10+00 TO STA. 13+41.57

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 96 169 SHEET NO. 20
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: 8/22/97

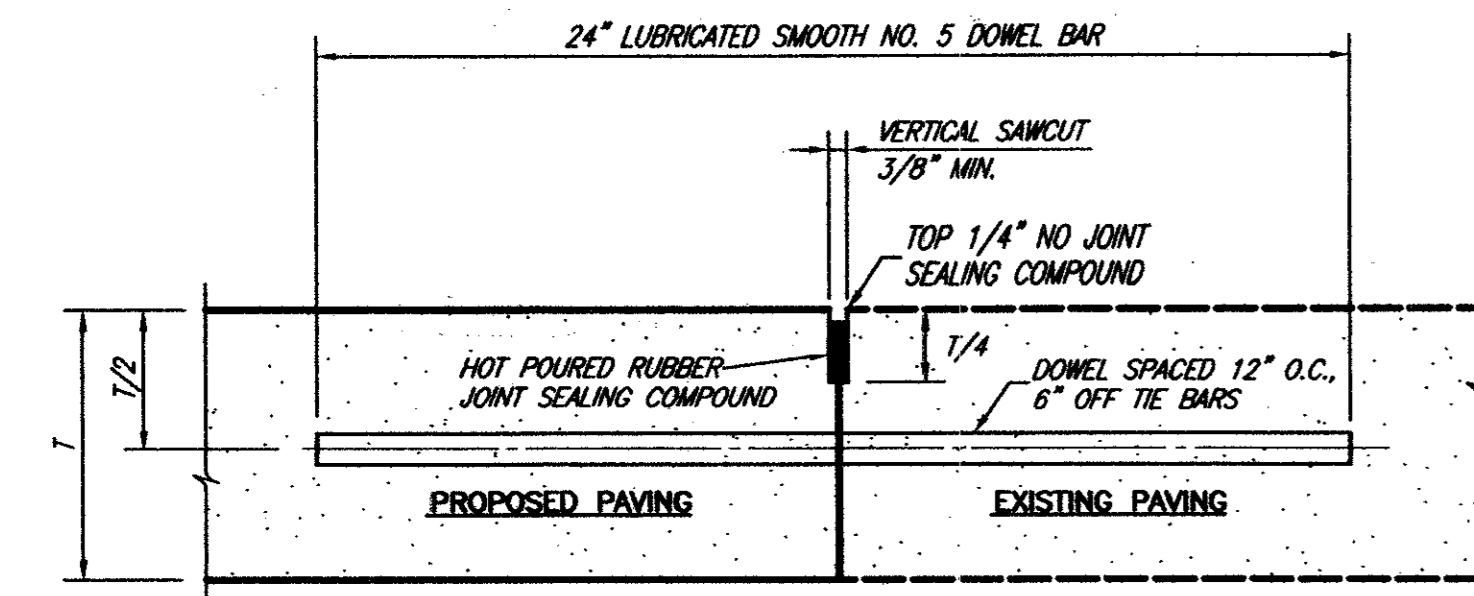


TRANSVERSE EXPANSION JOINT NOTES:

1. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
2. TRANSVERSE EXPANSION JOINTS SHALL BE SPACED AT 400 FT. MAXIMUM AND AT ALL INTERSECTIONS.

TRANSVERSE EXPANSION JOINT

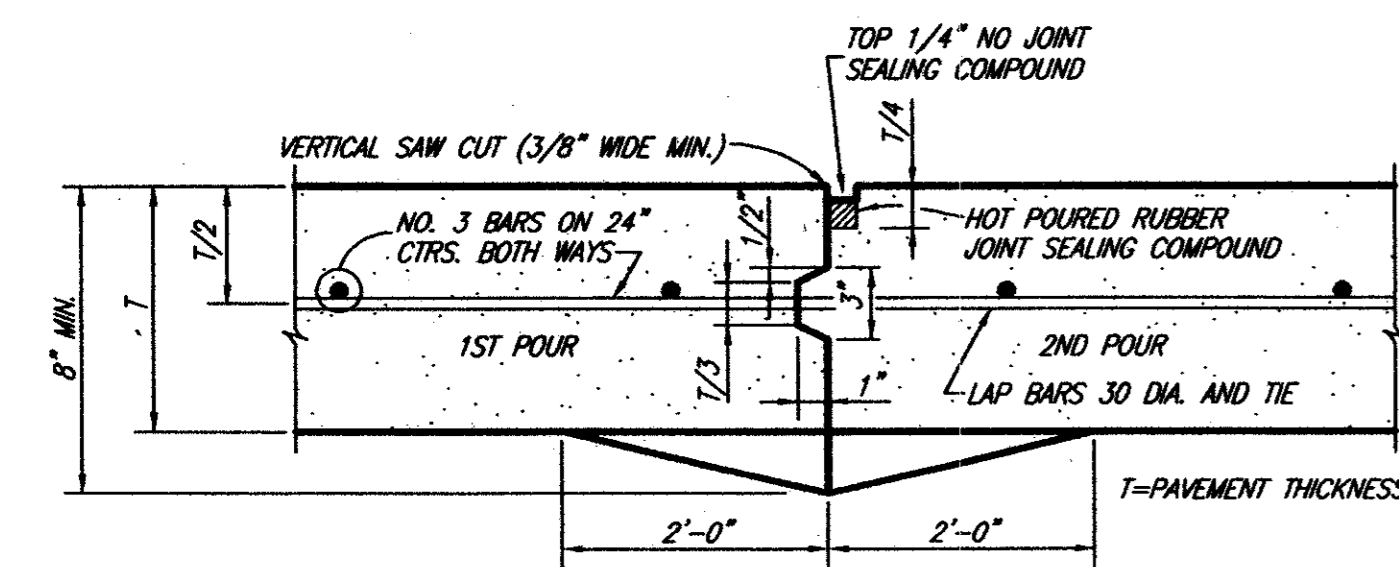
NO SCALE



NOTE: DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL DRILL. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

CONNECTION TO EXISTING PAVEMENT

NOT TO SCALE

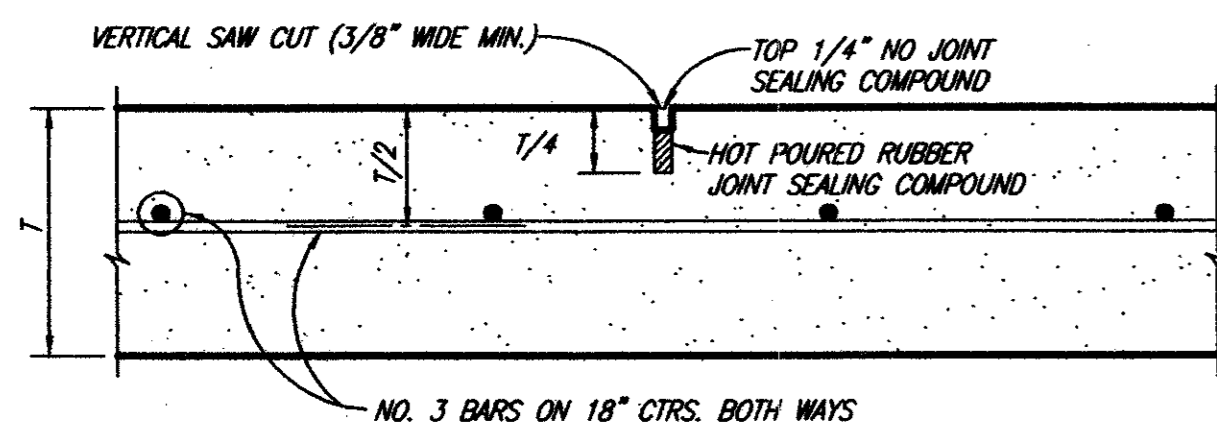


CONSTRUCTION JOINT NOTES:

1. CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT (ORILL DOWELS INTO FIRST POUR).
2. THICKENED EDGES ARE REQUIRED FOR FUTURE WIDENING ONLY.

CONSTRUCTION JOINT

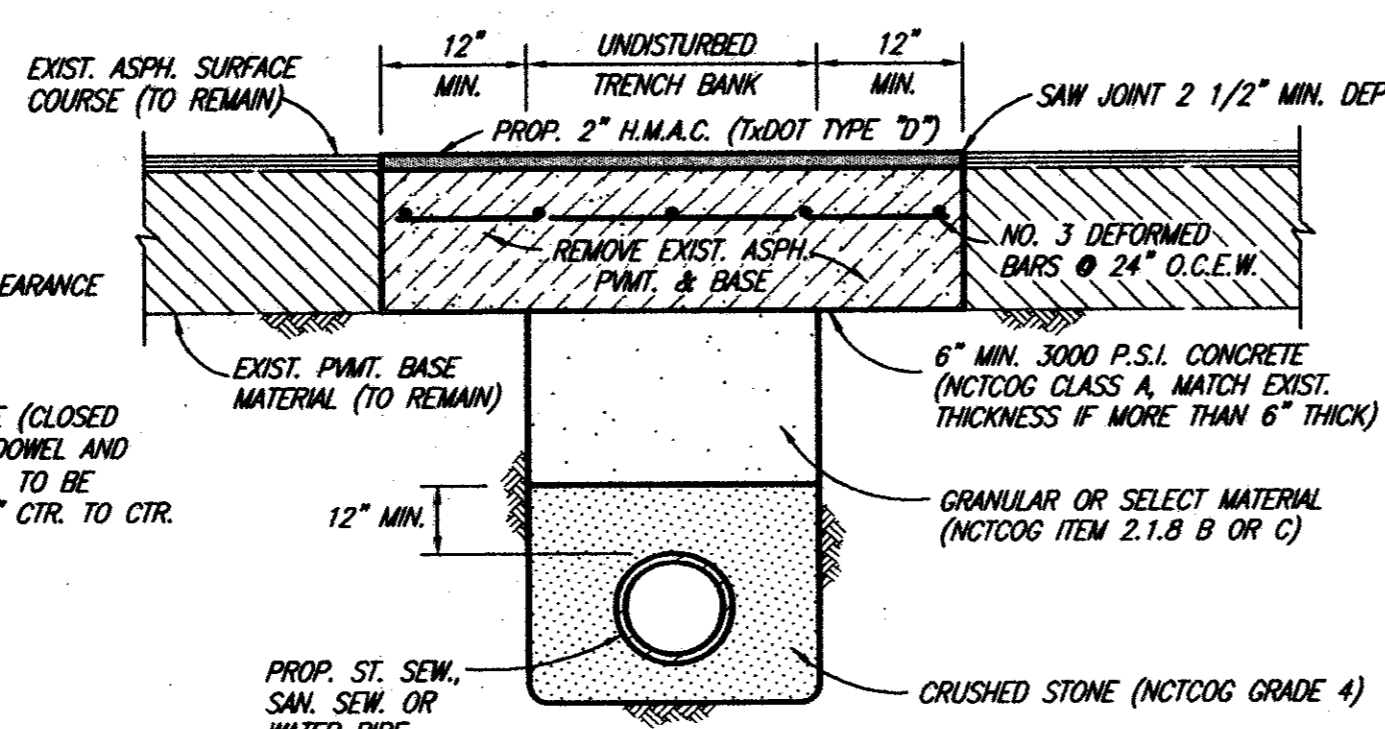
NO SCALE



TRANSVERSE JOINTS SPACED 15 FT. C.-C. (MAX.)
LONGITUDINAL JOINTS SPACED 20 FT. C.-C. (MAX.)

SAWED DUMMY JOINT

NO SCALE



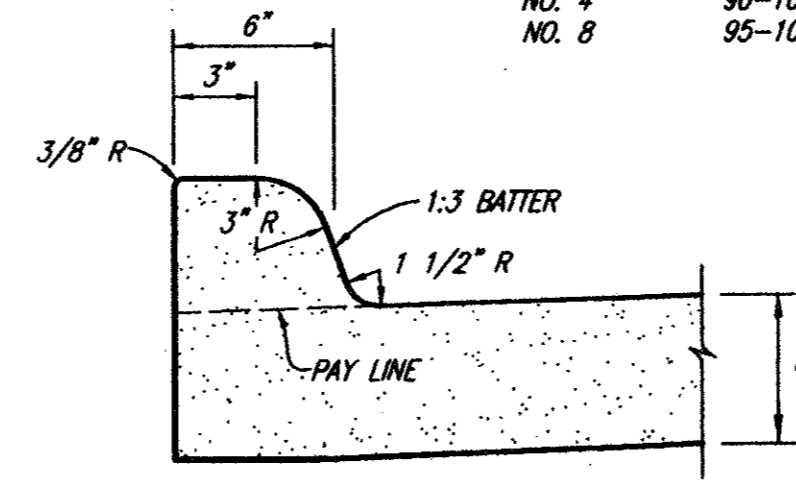
ASPHALT PAVEMENT REPAIR "A"

NO SCALE

SEIVE SIZE	PERCENT RETAINED
1 1/2"	0-5%
1/2"	40-75%
NO. 4	90-100%
NO. 8	95-100%

CONCRETE PAVEMENT REPAIR "B"

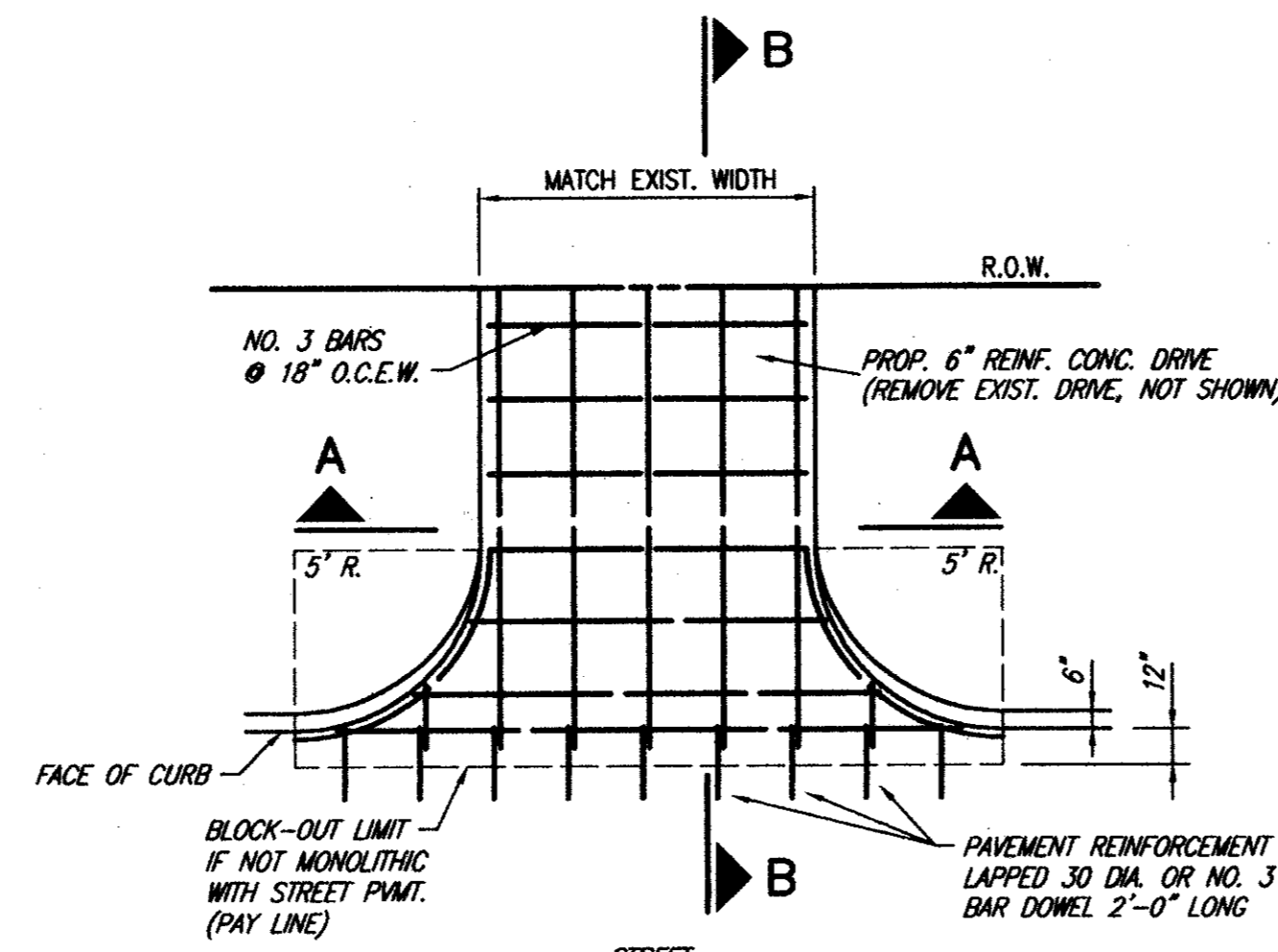
NO SCALE



INTEGRAL CURB

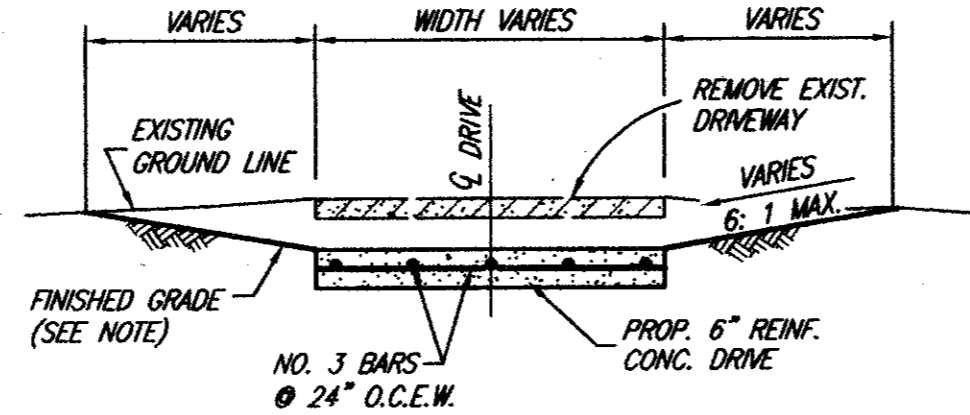
NO SCALE

- GENERAL PAVING NOTES**
1. CONTRACTOR SHALL SAWCUT ALL PAVEMENT. DURING REMOVAL OF CONCRETE, CONTRACTOR SHALL EXPOSE ALL REINFORCING STEEL.
 2. SAW CUT SHALL BE FULL DEPTH OF CONCRETE OR ASPHALT PAVEMENT.
 3. DURING RECONSTRUCTION, NEW REINFORCING STEEL SHALL BE TIED TO EXISTING STEEL. IF NO EXISTING STEEL IN PAVEMENT, CONTRACTOR SHALL CONSTRUCT LONGITUDINAL BUTT JOINTS UTILIZING NO. 4 SMOOTH BARS.
 4. CONCRETE SHALL BE 6" REINFORCED, 3000 P.S.I. STRENGTH AT 28 DAYS.

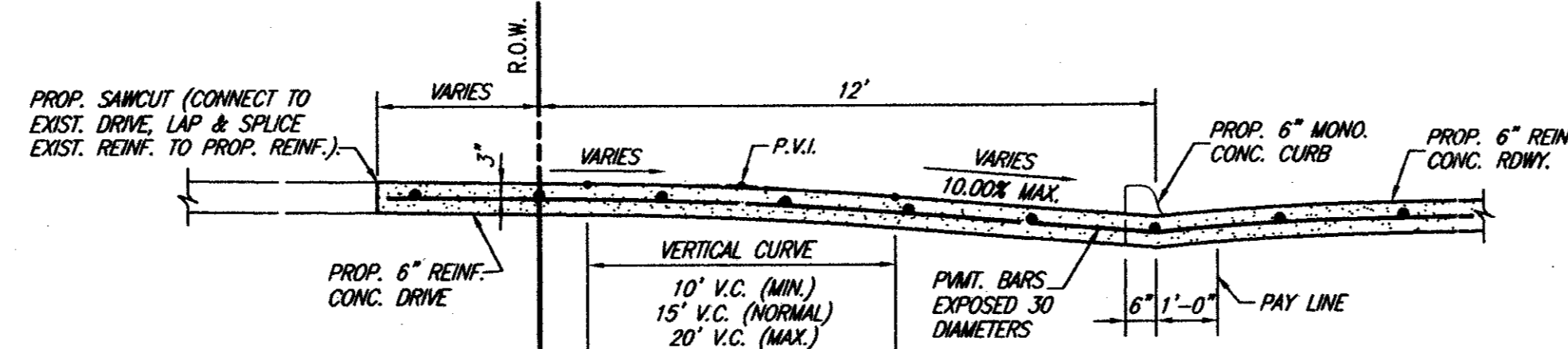


DRIVEWAY RETURN TO STREET

NOTE: FINISHED GRADING WITHIN THE R.O.W. SHALL BE BROADCAST SEED. WHERE PROPOSED DRIVEWAY CONSTRUCTION GOES BEYOND THE R.O.W. AND INTO PRIVATE PROPERTY, THE FINISHED GRADING SHALL BE BLOCK SODDED TO RESTORE THE LANDSCAPING TO ITS PRE-CONSTRUCTION APPEARANCE.

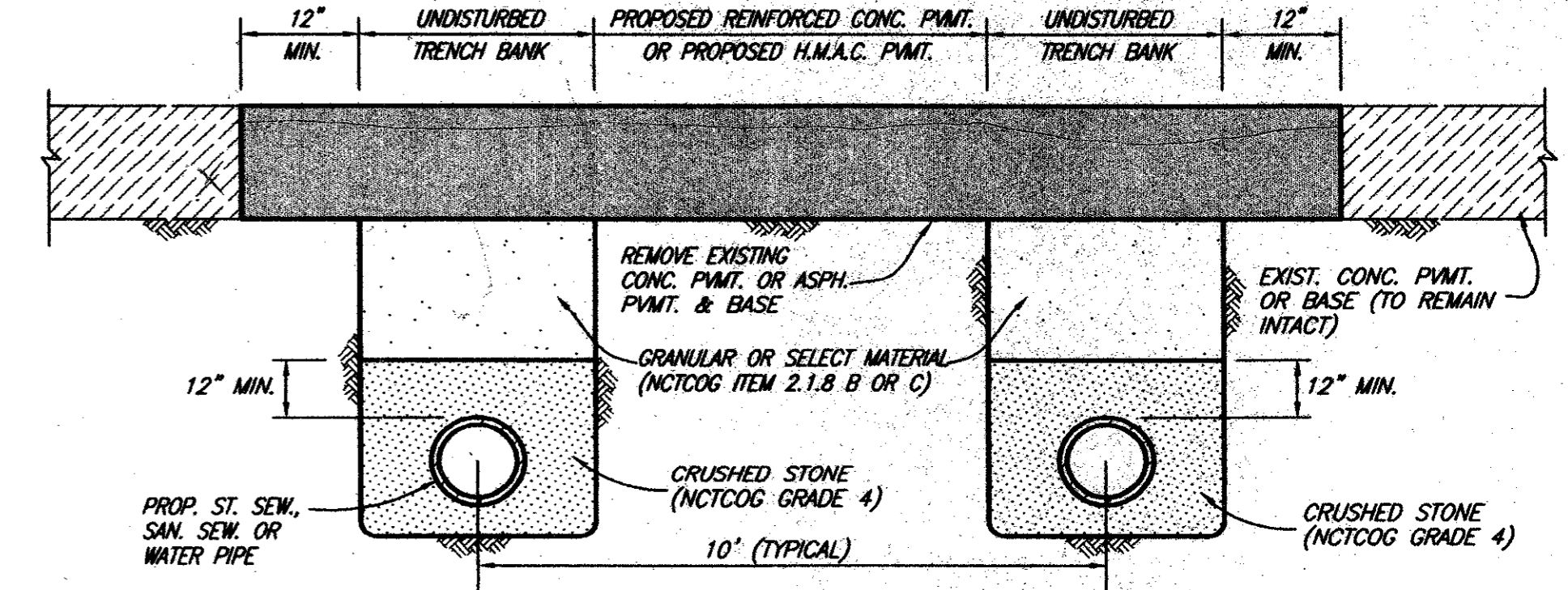


SECTION A-A



SECTION B-B

DRIVEWAY RETURN SECTIONS

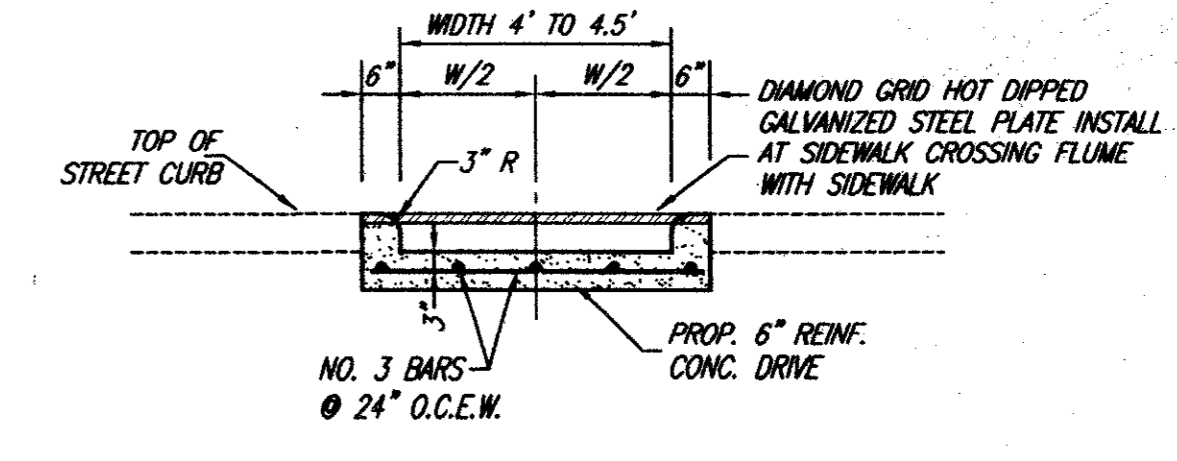


PROPOSED WATER LINE
PROPOSED SAN. SEW. LINE

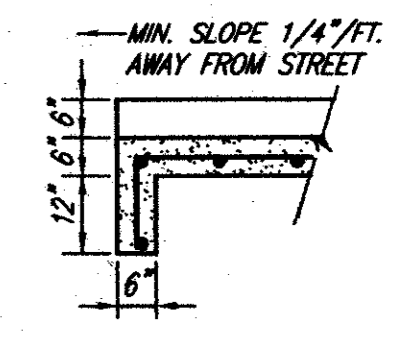
PROPOSED ASPHALT OR CONCRETE REPAIR "C"

(SAN. SEW. STA. 10+50 TO STA. 32+50)

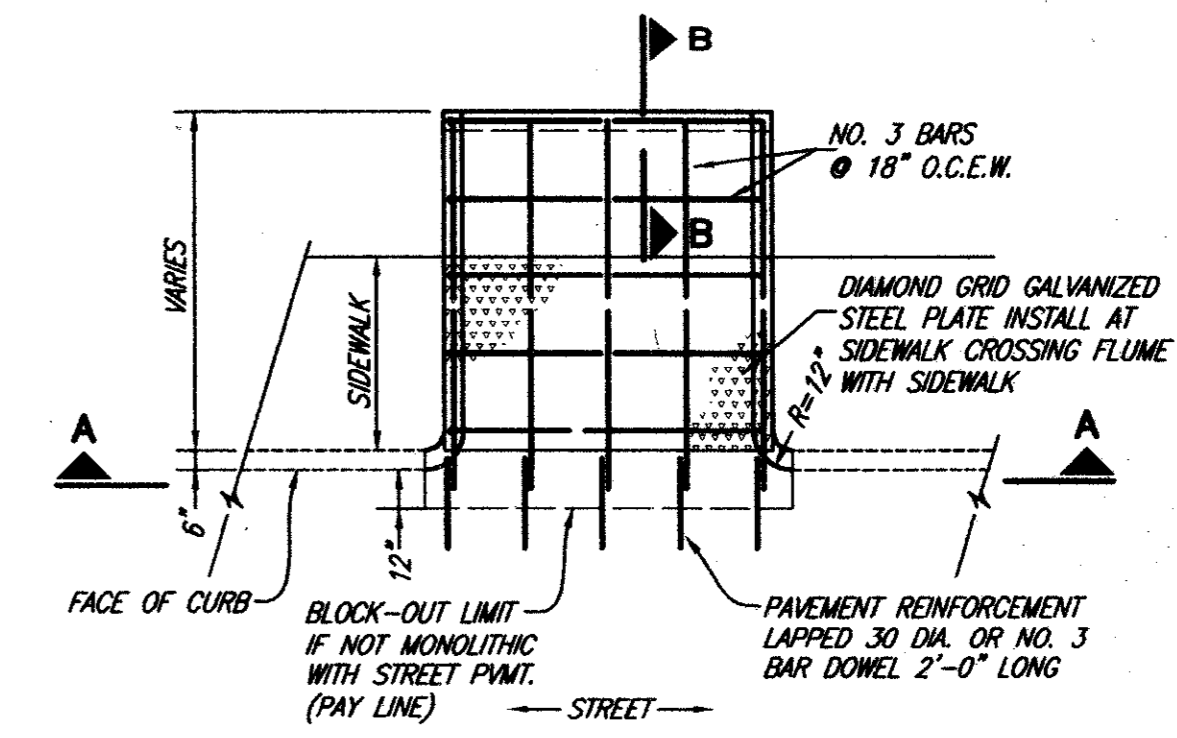
NO SCALE



SECTION A-A



SECTION B-B

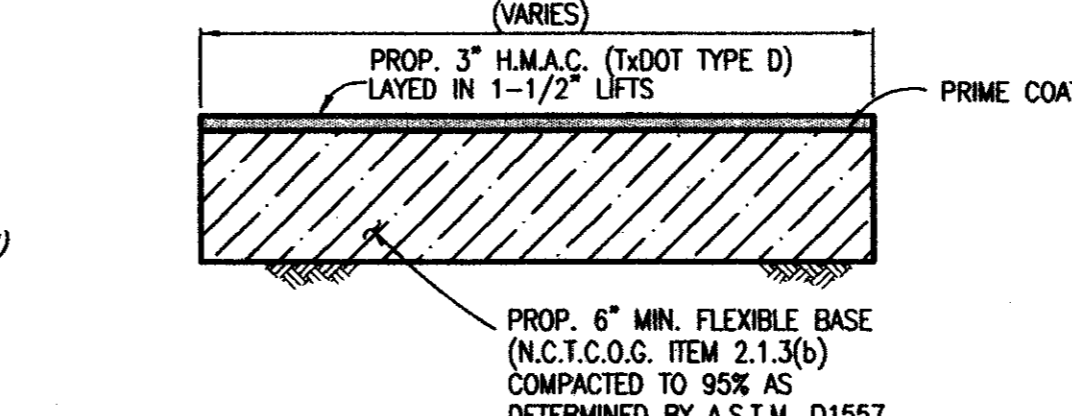


PLAN

REINFORCED CONCRETE FLUME

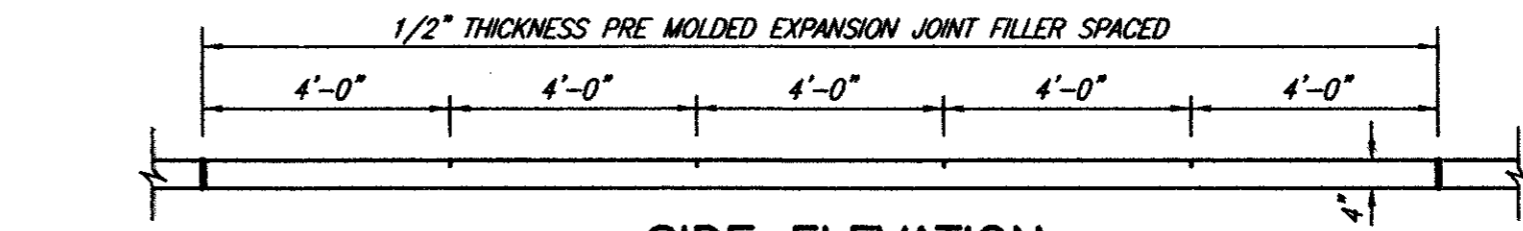
NO SCALE

STEEL PLATE FLUME COVER
PLATE THICKNESS SHALL BE 5/8 INCHES BASE ON 100 P.S.I. LIVE LOAD AND MAX. DEAD & LIVE LOAD DEFLECTION OF L/240. BOLT PLATE DOWN WITH BRASS BOLTS. BOLTS SHALL BE 1/2" DIA. RECESSED TO FLUSH WITH TOP OF PLATE AND SPACED A MAXIMUM OF 12" ON CENTERS. 1/2" DIA. SELF-DRILLING ANCHORS SHALL BE USED AND SPACED THE SAME. SURFACE OF PLATE SHALL BE A NON-SKID MATERIAL.



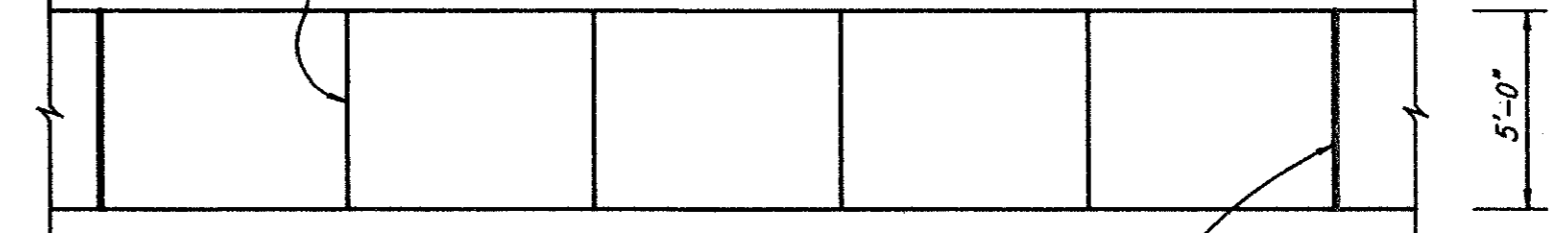
ASPHALT PAVEMENT REPAIR OUTSIDE PIPE REPAIR

NOT TO SCALE



SIDE ELEVATION

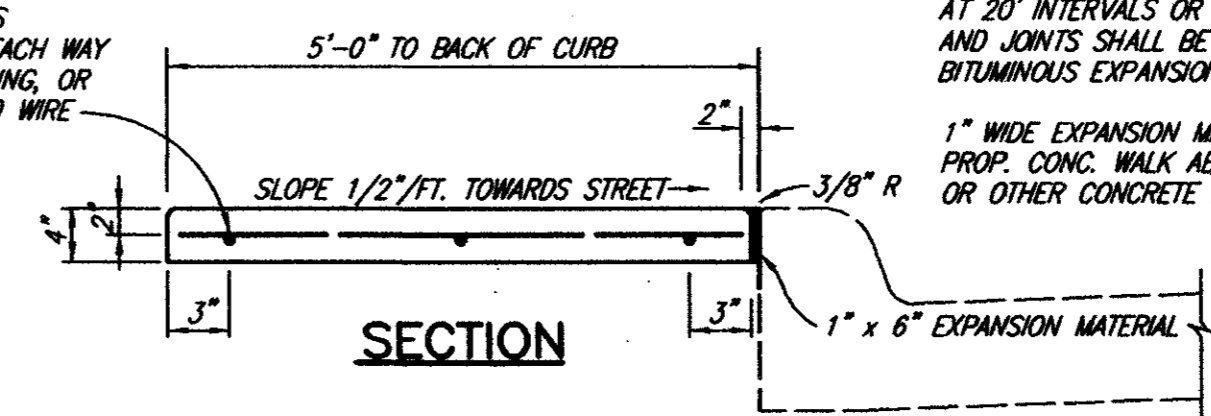
SIDEWALK MARKINGS SHALL BE GROOVED 3/8" DEEP ON 4" CENTERS



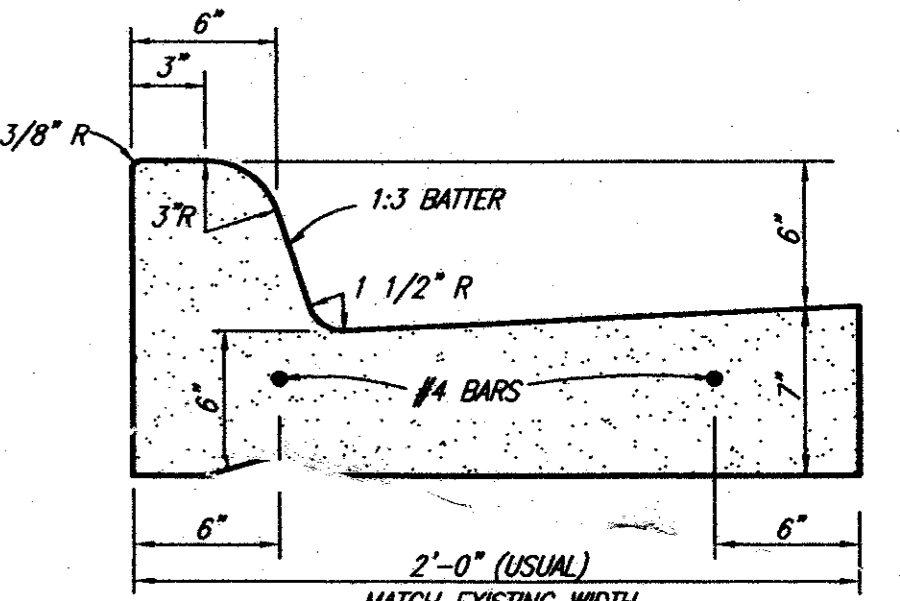
PLAN

CONCRETE SIDEWALK

NO SCALE



SECTION

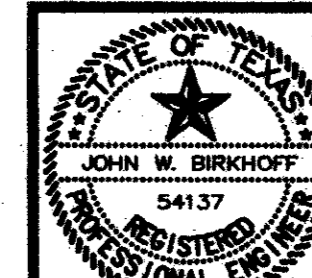


CONCRETE CURB AND GUTTER

NO SCALE

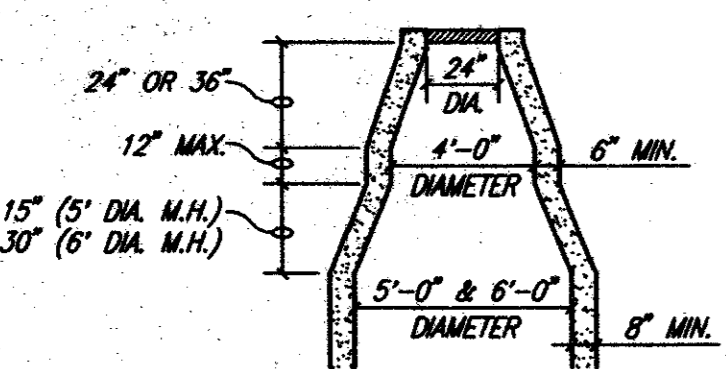
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DATE: 9/15/97

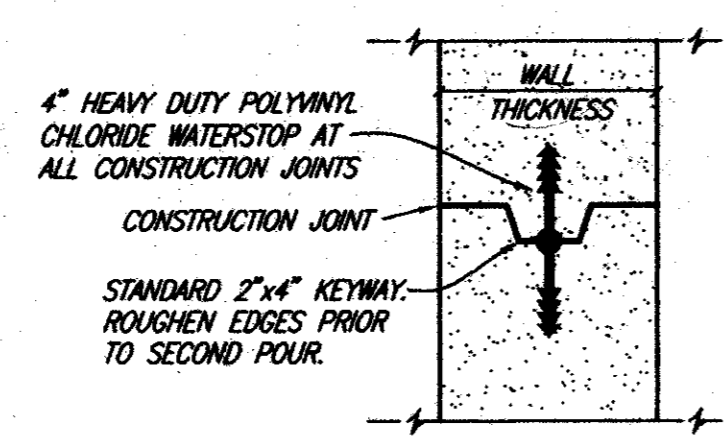


TOWN OF ADDISON, TEXAS
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
STANDARD DETAILS
SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

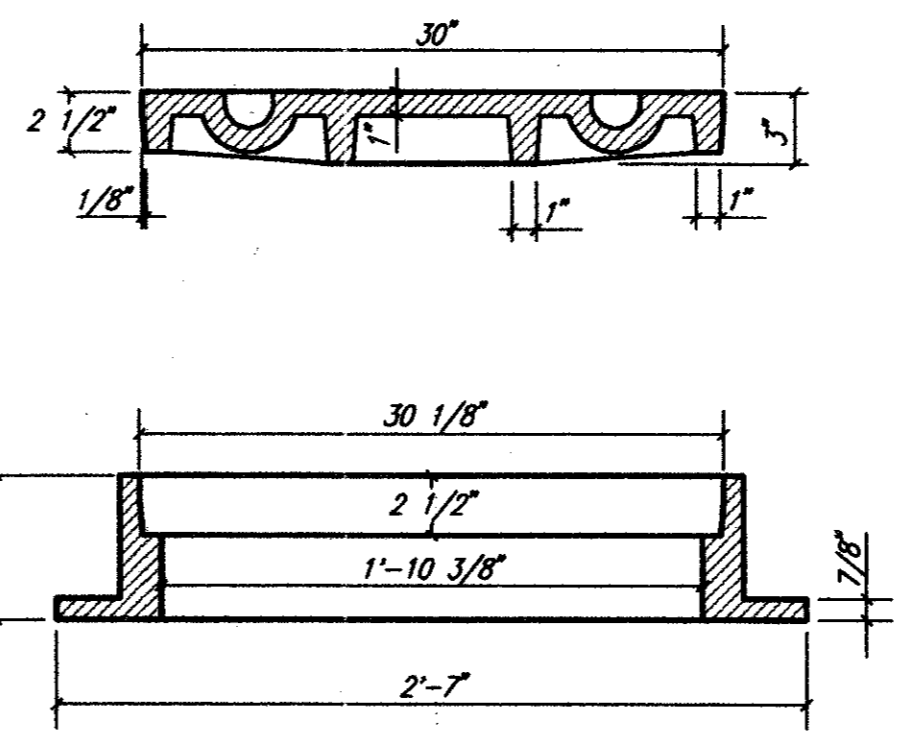
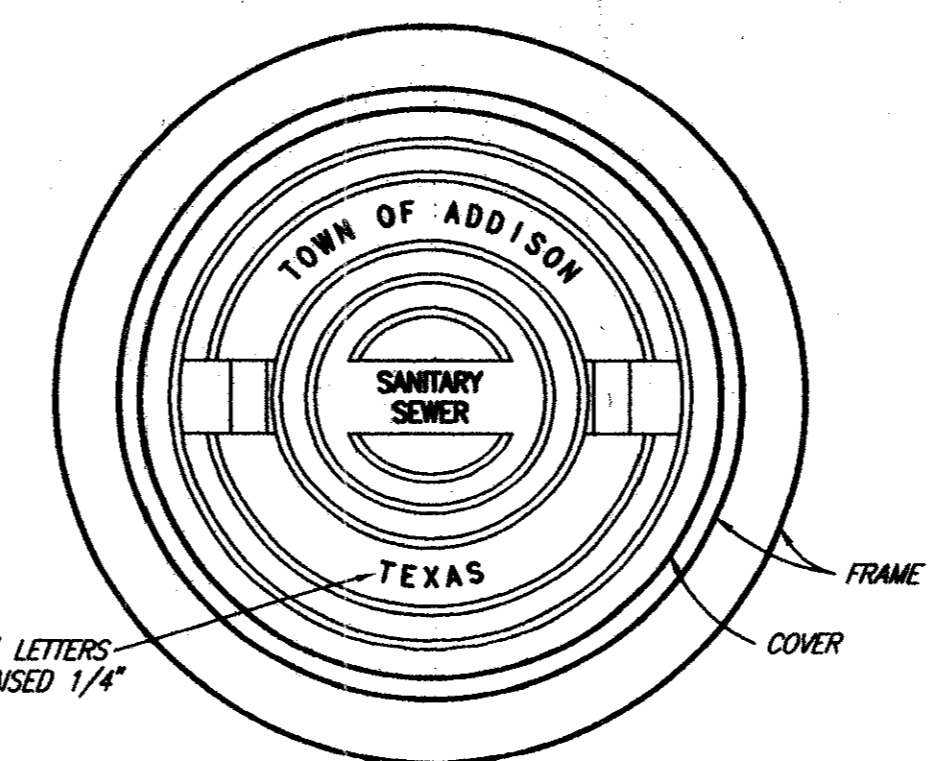
DESIGNED BY: S.J. & F.	PROJECT: 96 169	SHEET NO. 21
DRAWN BY: S.J. & F.	DATE: FEBRUARY 1997	OF 24 SHEETS



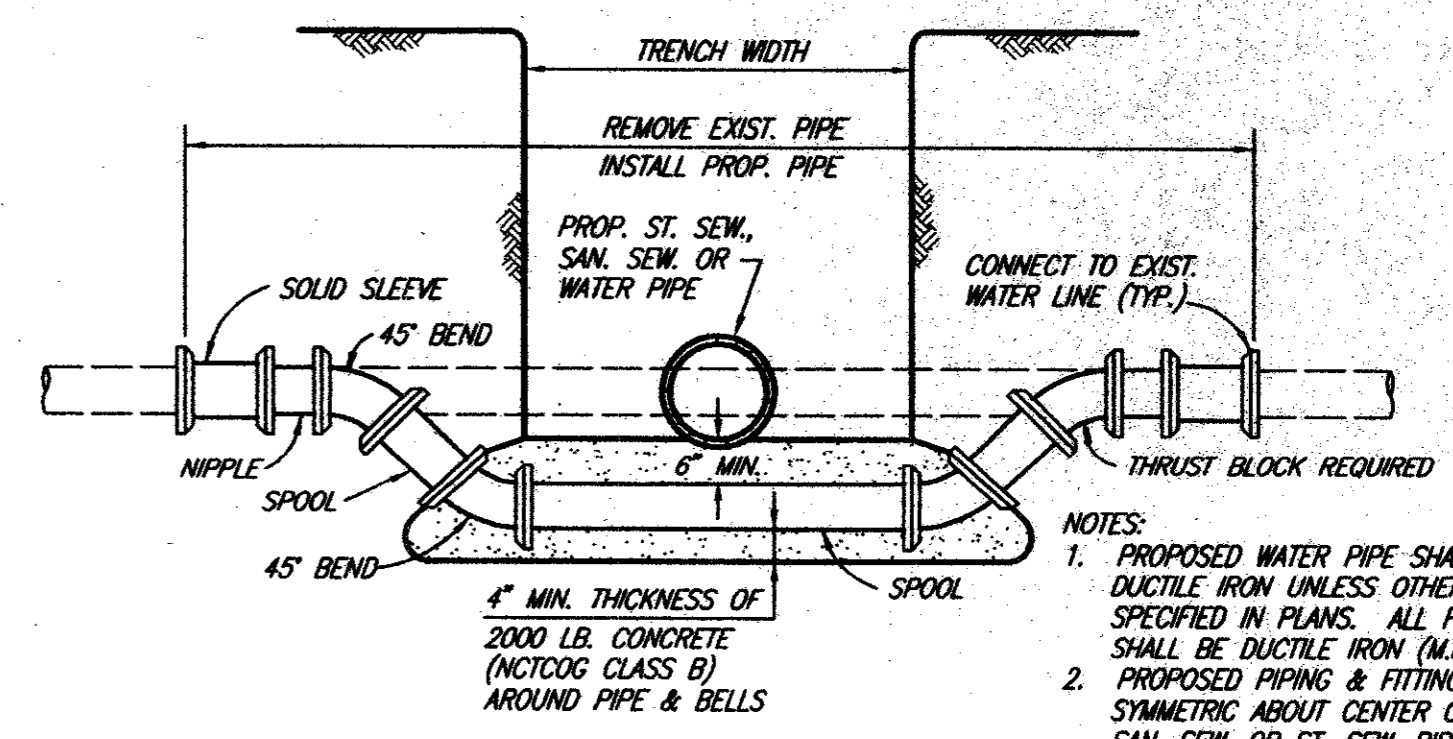
CONE TRANSITION
5' & 6' DIAMETER MANHOLES ONLY



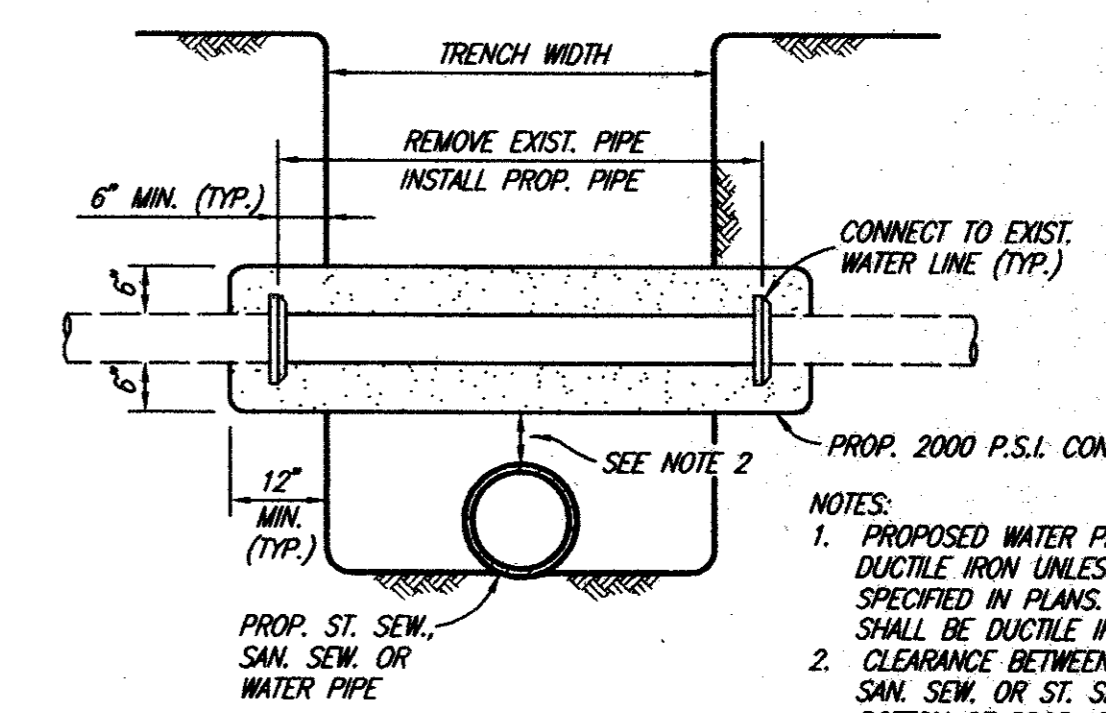
MANHOLE CONSTRUCTION JOINT
KEYWAY WITH WATERSTOP



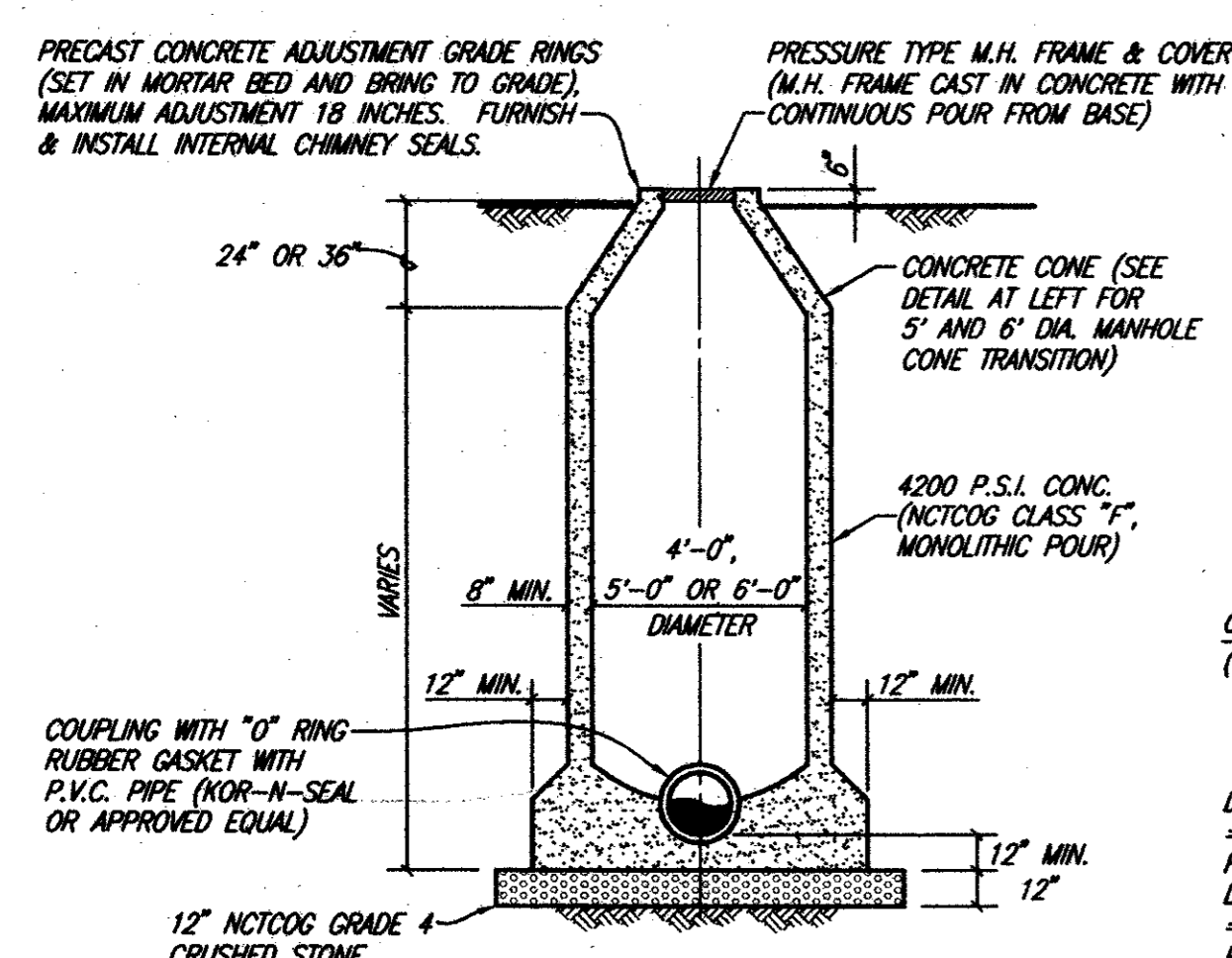
MANHOLE RING AND COVER
NO SCALE



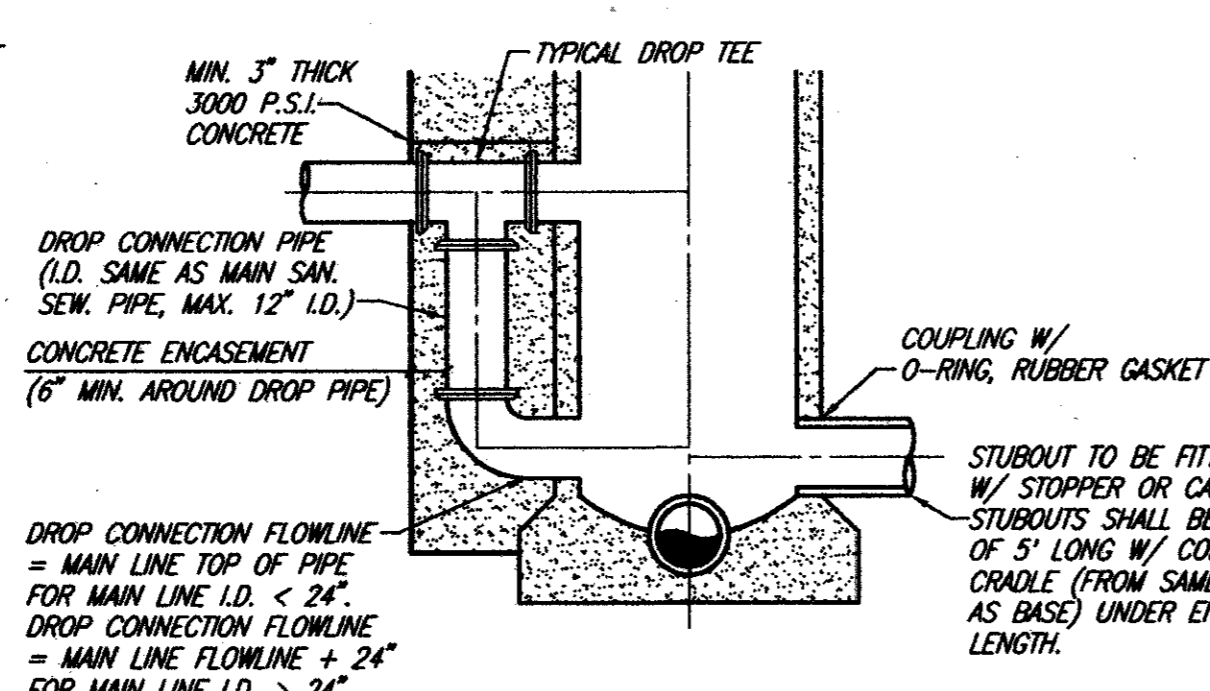
WATER MAIN LOWERING
NO SCALE



UTILITY SUPPORT
NO SCALE



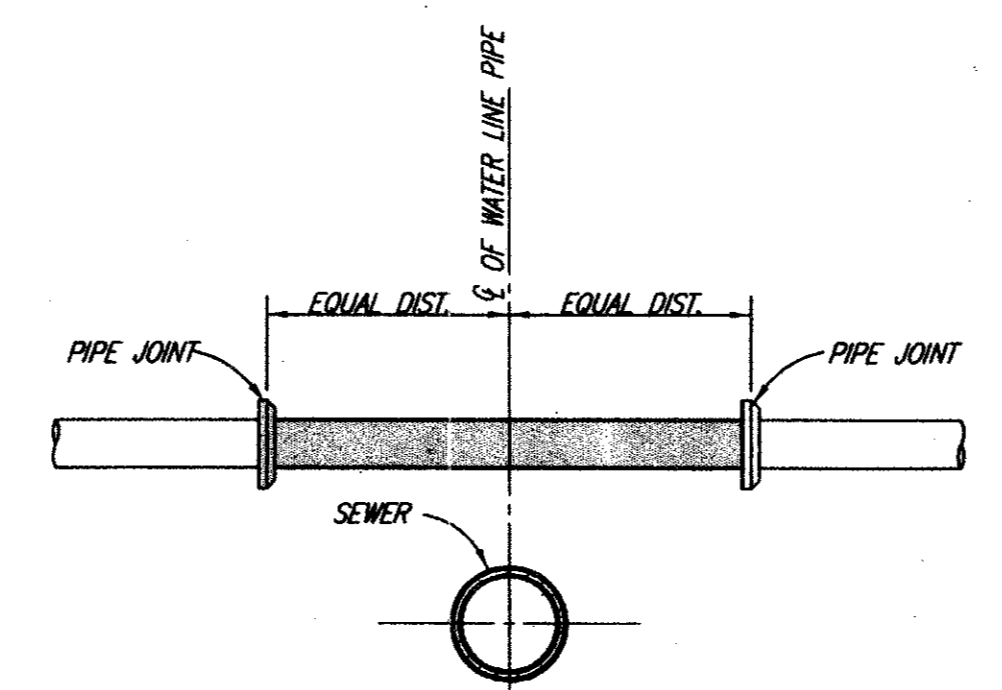
STANDARD MANHOLE ELEVATION
4', 5' & 6' DIAMETER MANHOLES



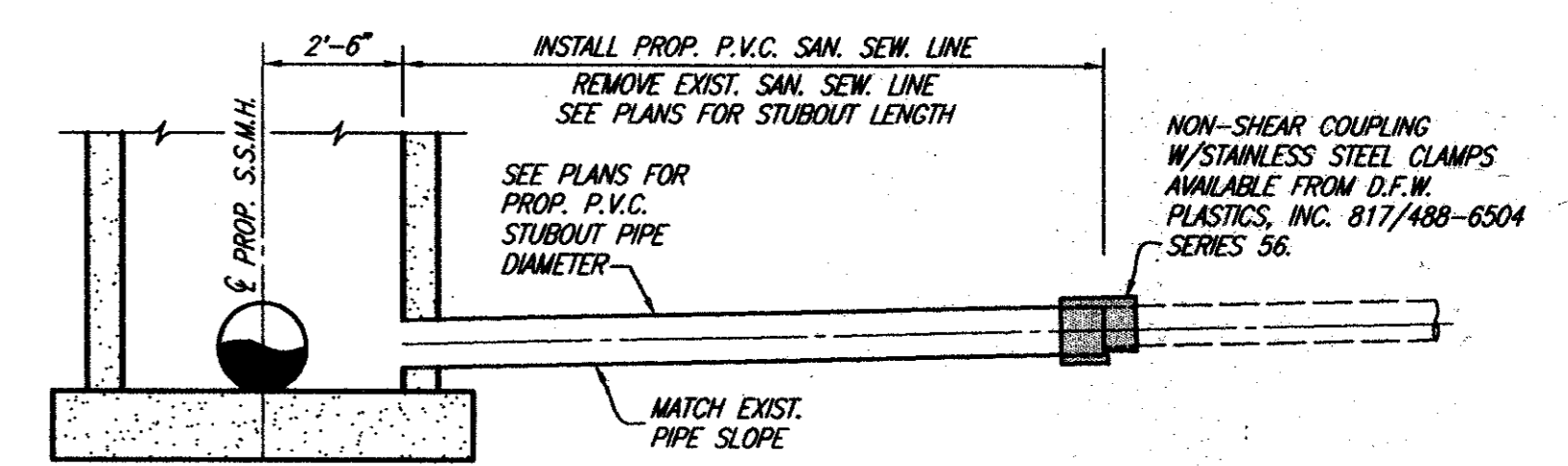
DROP MANHOLE ELEVATION
4', 5' & 6' DIAMETER MANHOLES

SANITARY SEWER MANHOLE (CAST IN PLACE)

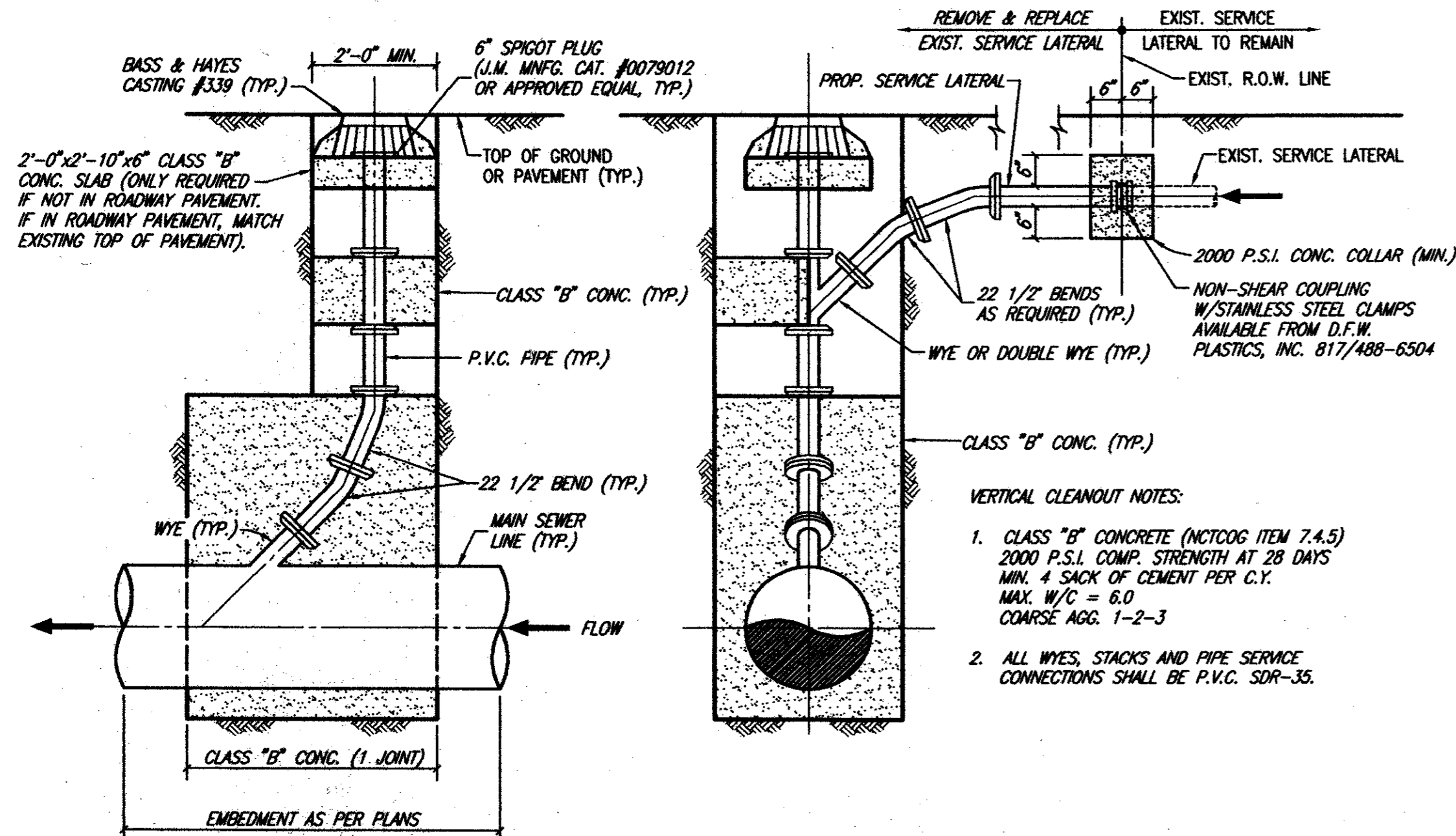
PRECAST MANHOLES NOT ACCEPTABLE IN ADDISON. MANHOLES SHALL BE PLUMB TO WITHIN 1 INCH FOR EVERY 5 FEET OF VERTICAL DEPTH.
NO SCALE



TYPICAL WATER/SEWER CROSSING
NO SCALE

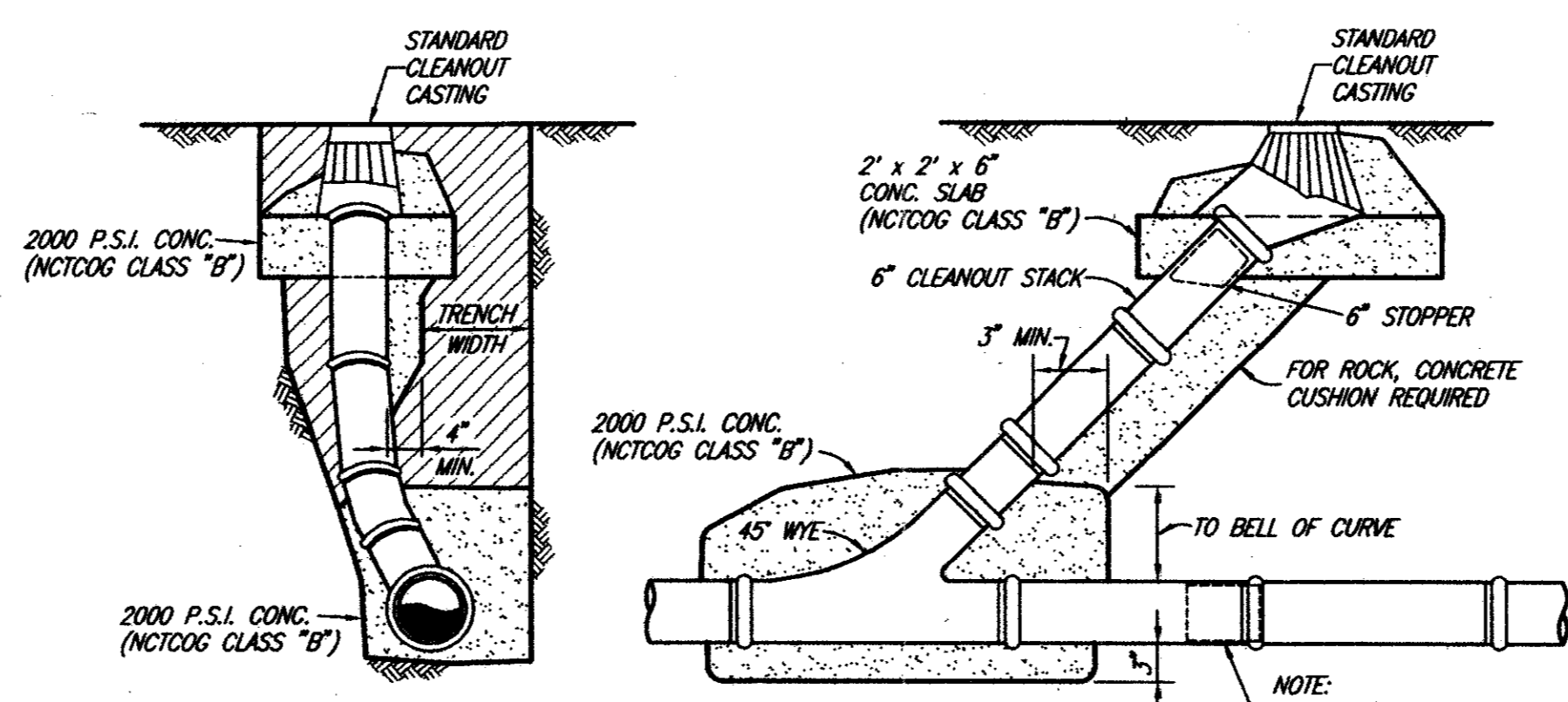


STUBOUT CONNECTION FOR 6" & 8" LINES
NO SCALE



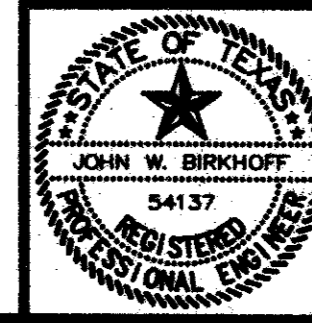
VERTICAL CLEANOUT CONNECTION
(CONNECTION, WYE, CONCRETE, BENDS, CASTING, ETC. ALL SUBSIDIARY TO CLEANOUT)

- VERTICAL CLEANOUT NOTES:**
- CLASS "B" CONCRETE (NCTCOG ITEM 7.4.5) 2000 P.S.I. COMP. STRENGTH AT 28 DAYS MIN. 4 SACK OF CEMENT PER C.Y. MAX. W/C = 6.0 COARSE AGG. 1-2-3
 - ALL WYES, STACKS AND PIPE SERVICE CONNECTIONS SHALL BE P.V.C. SDR-35.



STANDARD CLEANOUT
NO SCALE

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John W. Babbitt
DATE: 8/22/97

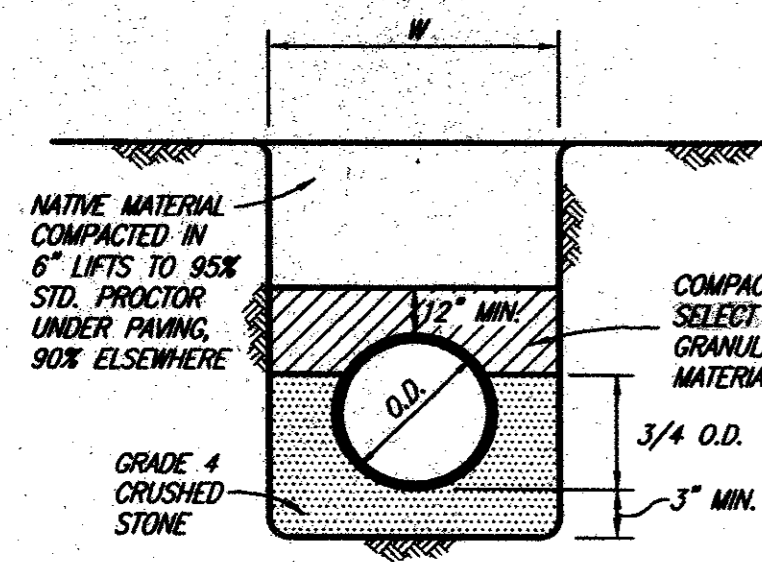


TOWN OF ADDISON, TEXAS
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT

STANDARD DETAILS

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: S.J. & F. PROJECT: 96 169 SHEET NO. 23
DRAWN BY: S.J. & F. DATE: FEBRUARY 1997 OF 24 SHEETS

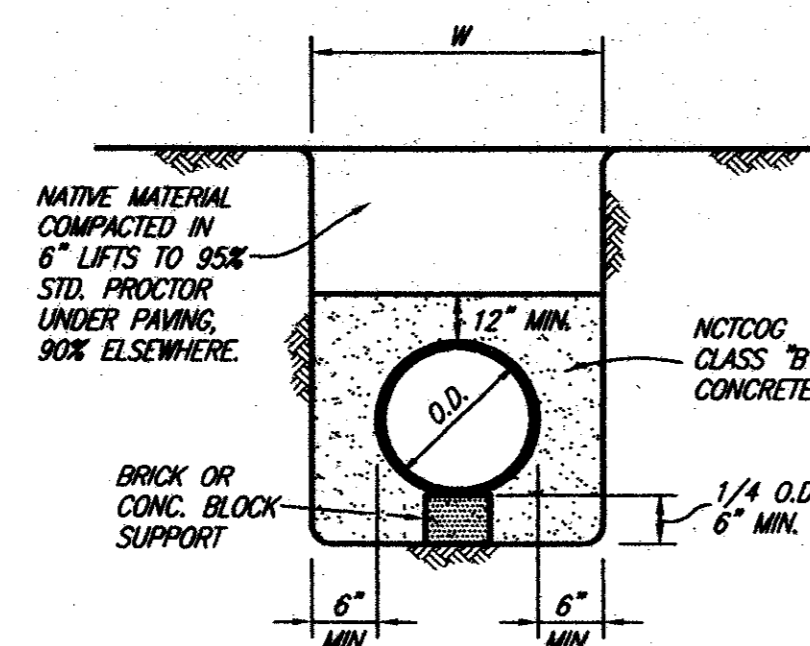


CLASS B-1 EMBEDMENT

P.V.C. PIPE ONLY
STD. P.V.C. WATER

EMBEDMENT NOTES:

- DEPTH OF TRENCH BELOW PIPE:
 - 3" MIN. FOR 27" PIPE & SMALLER
 - 4" MIN. FOR 30" TO 60" PIPE
 - 6" MIN. FOR 66" PIPE & LARGER
- MAXIMUM TRENCH WIDTH ("W") SHALL BE 24" PLUS O.D. FOR PIPE ≤ 36" I.D. AND 36" PLUS O.D. FOR PIPE > 36" I.D.

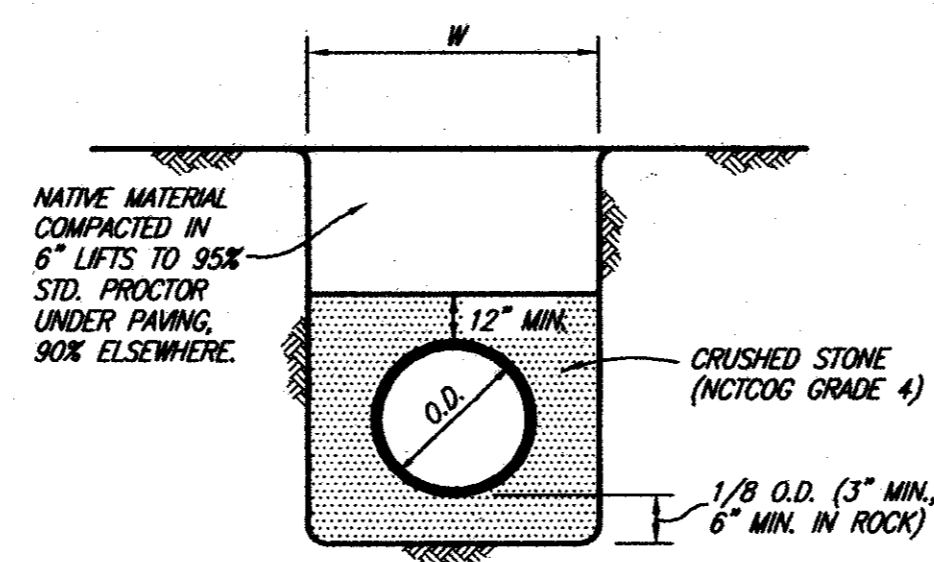


CLASS G EMBEDMENT

CONCRETE ENCASEMENT

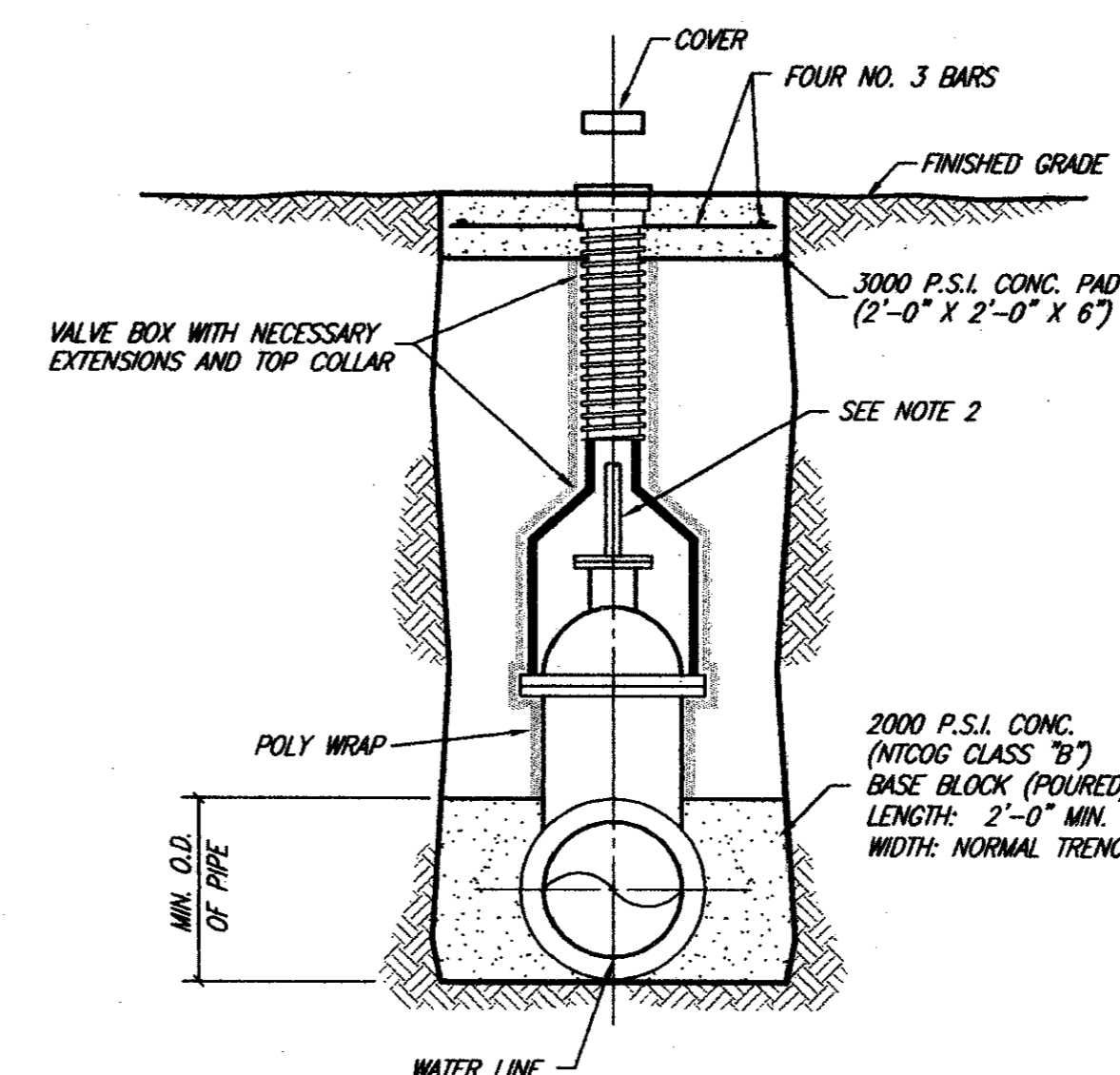
NCTCOG GRADE 4 CRUSHED STONE:

SIEVE SIZE	PERCENT RETAINED
1 1/2"	0%
1 1/4"	0-5%
1/2"	40-75%
NO. 4	90-100%
NO. 8	95-100%



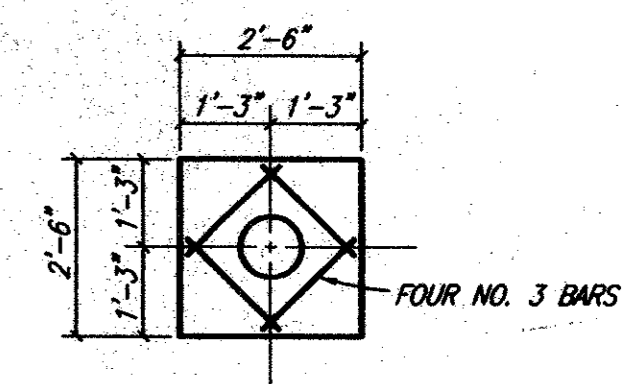
CLASS H EMBEDMENT

P.V.C. PIPE ONLY
STD. P.V.C. SEWER



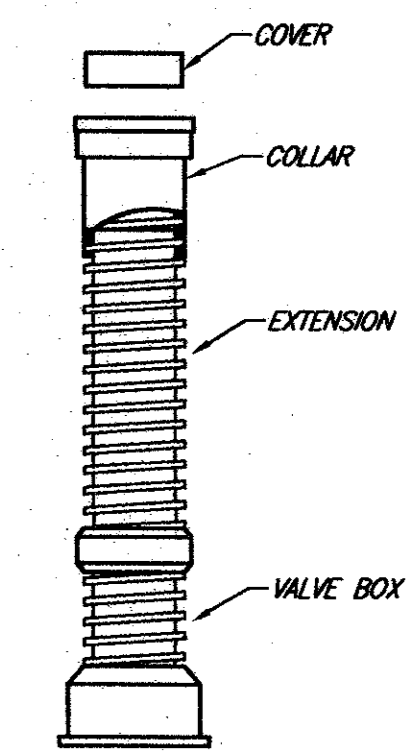
VALVE SETTING & BOX

NO SCALE



VALVE BOX PAD PLAN

NO SCALE

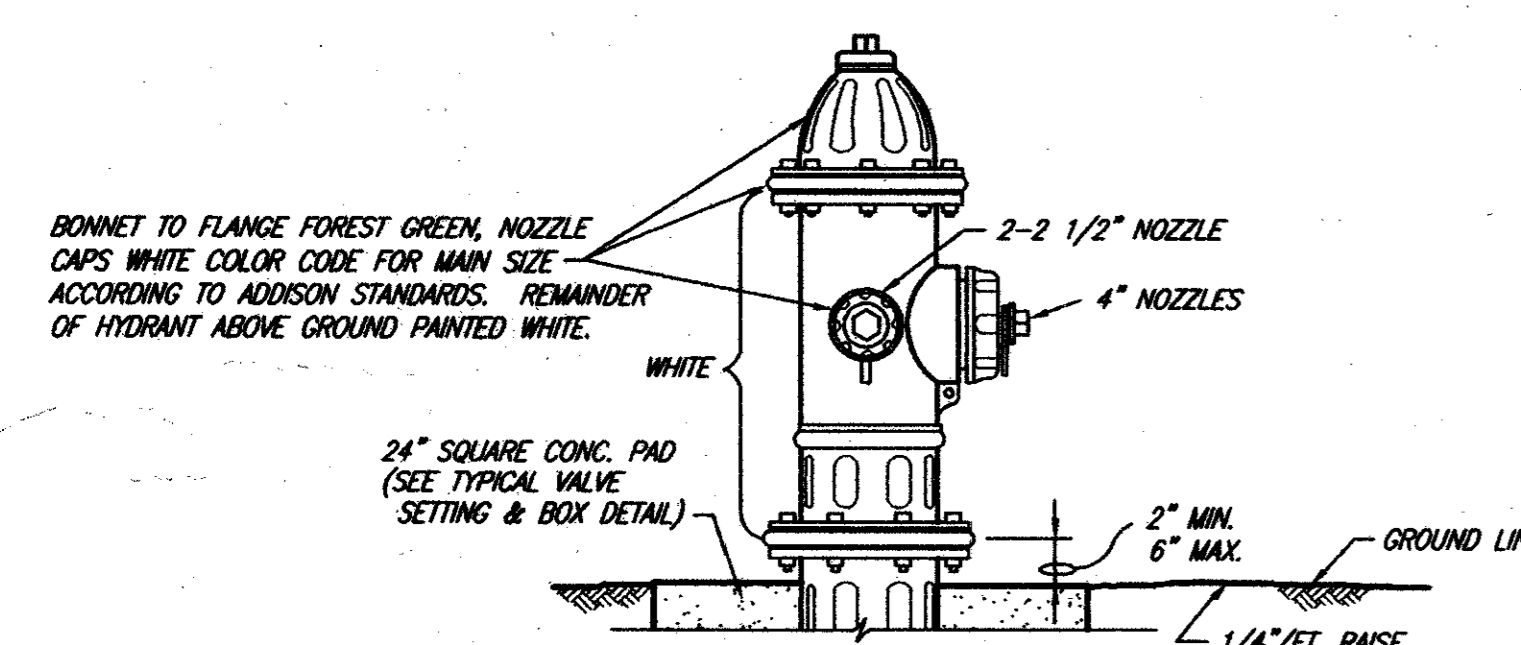


VALVE BOX WITH EXTENSION

NO SCALE

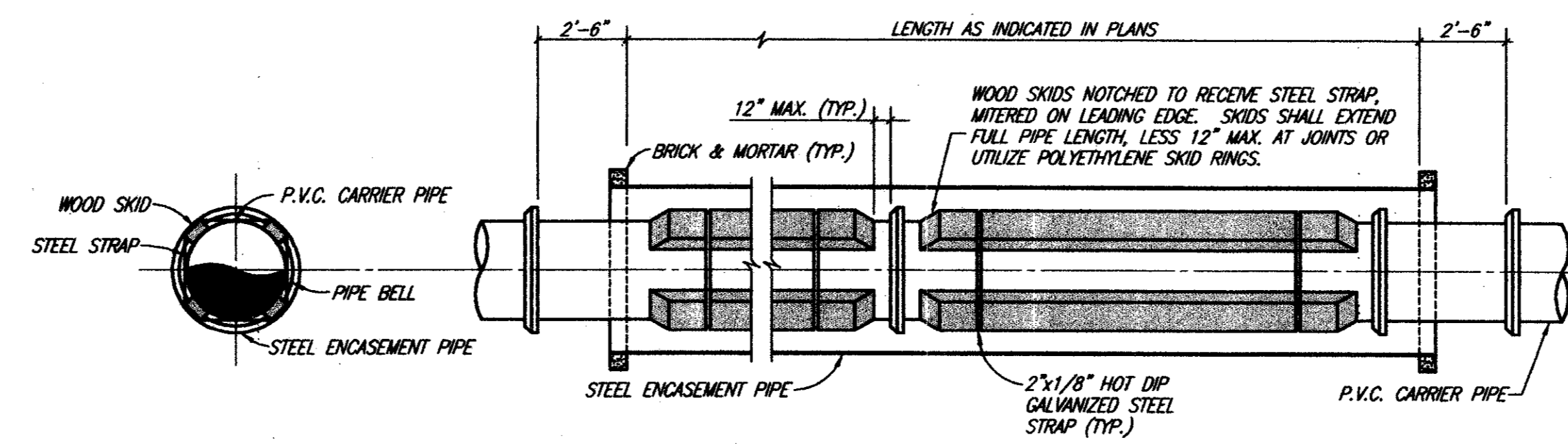
WATER VALVE NOTES:

- 4" TO 12" GATE VALVE SHALL BE RESILIENT SEATED WEDGE GATE VALVES ACCORDANCE WITH ANWA STANDARD C-509.
- A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.
- VALVE SHALL BE WRAPPED IN POLY WRAP.



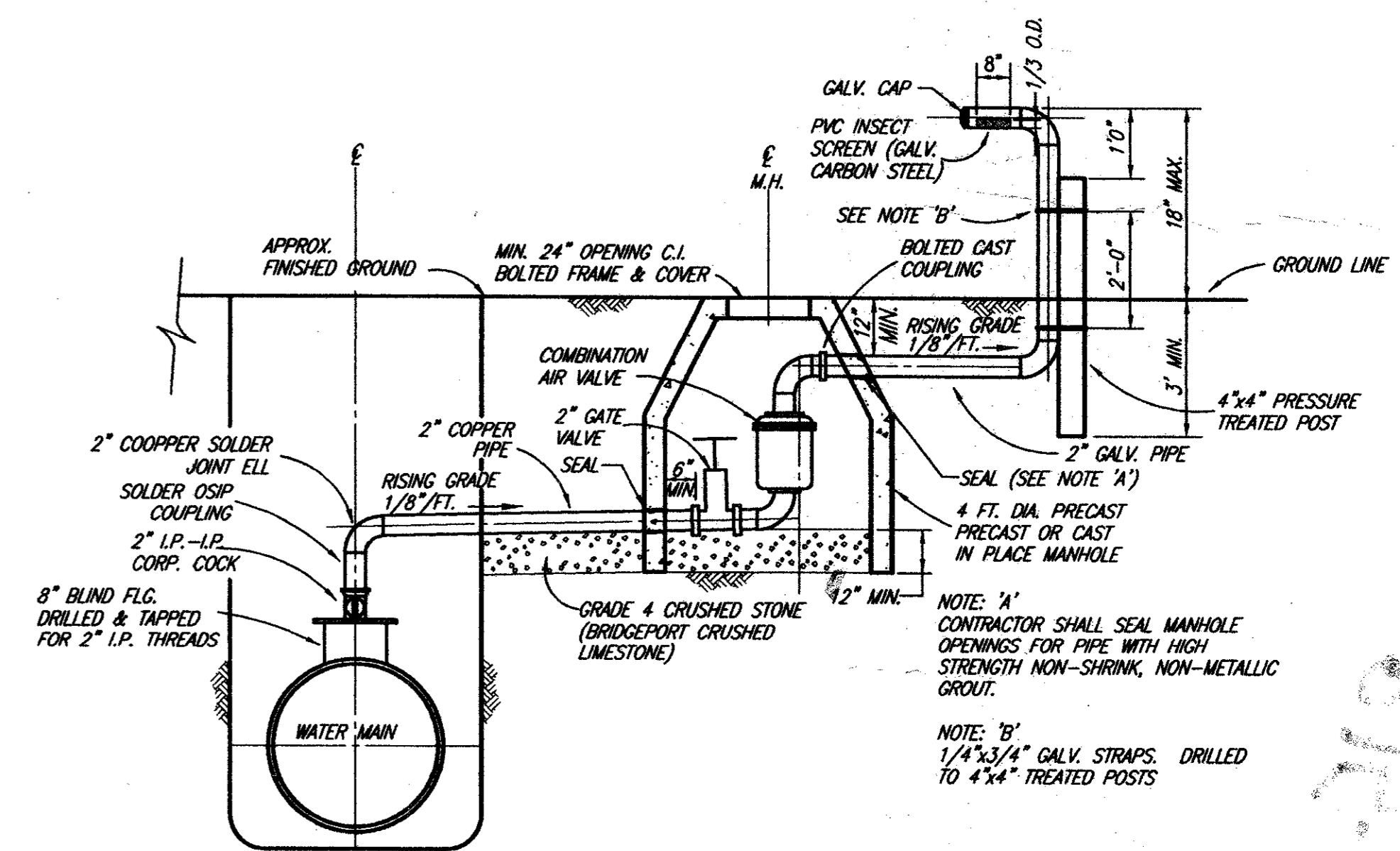
TYPICAL FIRE HYDRANT INSTALLATION

NO SCALE



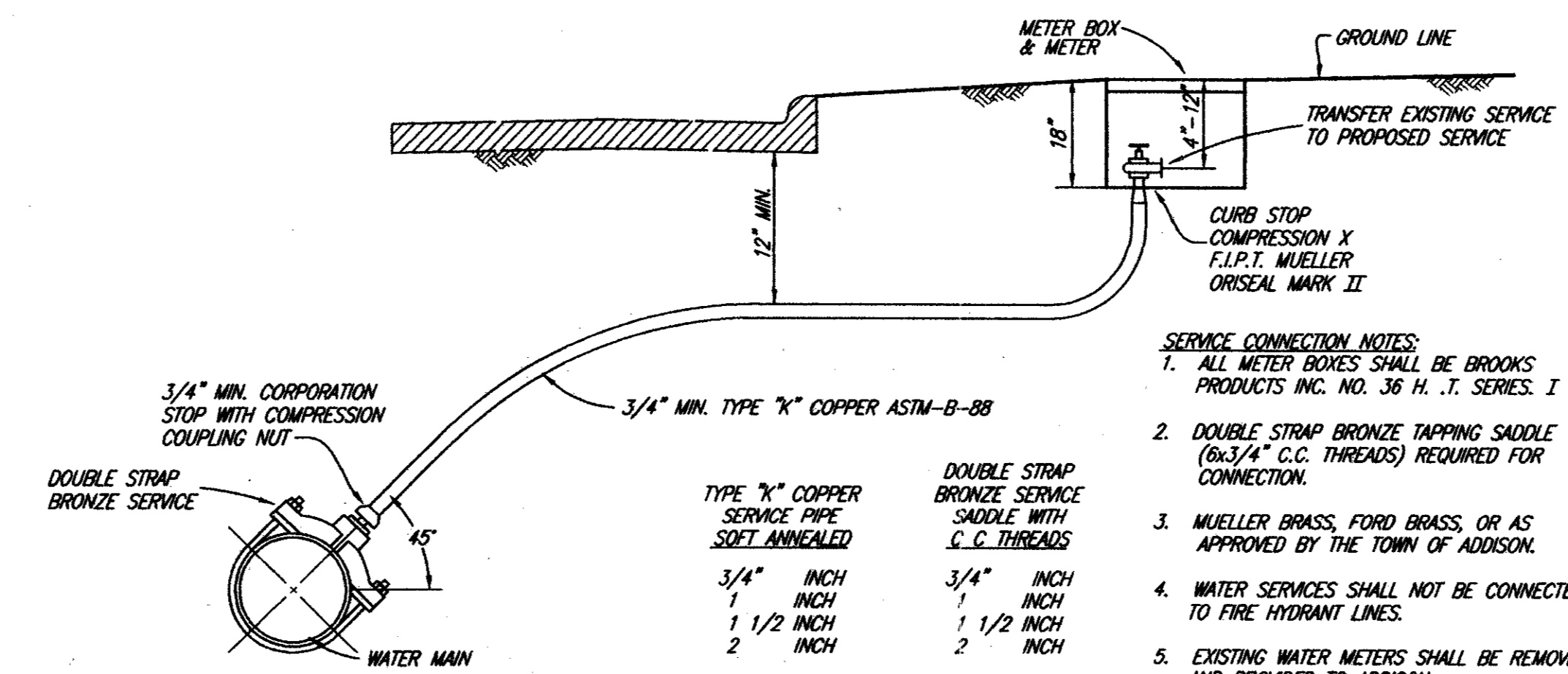
ENCASED ROAD OR RAILROAD BORE

NO SCALE



TYPICAL AIR & VACUUM-AIR RELEASE VALVE WITH MANHOLE INSTALLATION

NOT TO SCALE



TYPICAL SERVICE CONNECTION WITH METER BOX

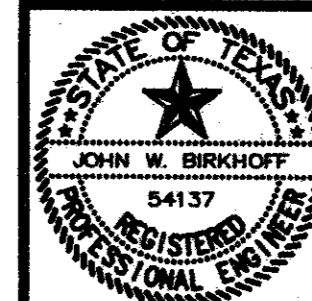
NO SCALE

SERVICE CONNECTION NOTES:

- ALL METER BOXES SHALL BE BROOKS PRODUCTS INC. NO. 36 H. I. SERIES I
- DOUBLE STRAP BRONZE TAPPING SADDLE (6x3/4" C.C. THREADS) REQUIRED FOR CONNECTION.
- MUELLER BRASS, FORD BRASS, OR AS APPROVED BY THE TOWN OF ADDISON.
- WATER SERVICES SHALL NOT BE CONNECTED TO FIRE HYDRANT LINES.
- EXISTING WATER METERS SHALL BE REMOVED AND PROVIDED TO ADDISON.
- ACTUAL LOCATION OF METERS SHALL BE DETERMINED IN THE FIELD BY THE ADDISON INSPECTOR.

TYPE "K" COPPER SERVICE PIPE	DOUBLE STRAP BRONZE TAPPING SADDLE WITH C.C. THREADS
3/4" INCH	3/4" INCH
1 INCH	1 INCH
1 1/2 INCH	1 1/2 INCH
2 INCH	2 INCH

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: 9/5/97



TOWN OF ADDISON, TEXAS
ADDISON AIRPORT SANITARY SEWER & WATER MAIN REPLACEMENT
STANDARD DETAILS
SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: S.J. & F.	PROJECT: 96 169	SHEET NO. 24
DRAWN BY: S.J. & F.	DATE: FEBRUARY 1997	OF 24 SHEETS