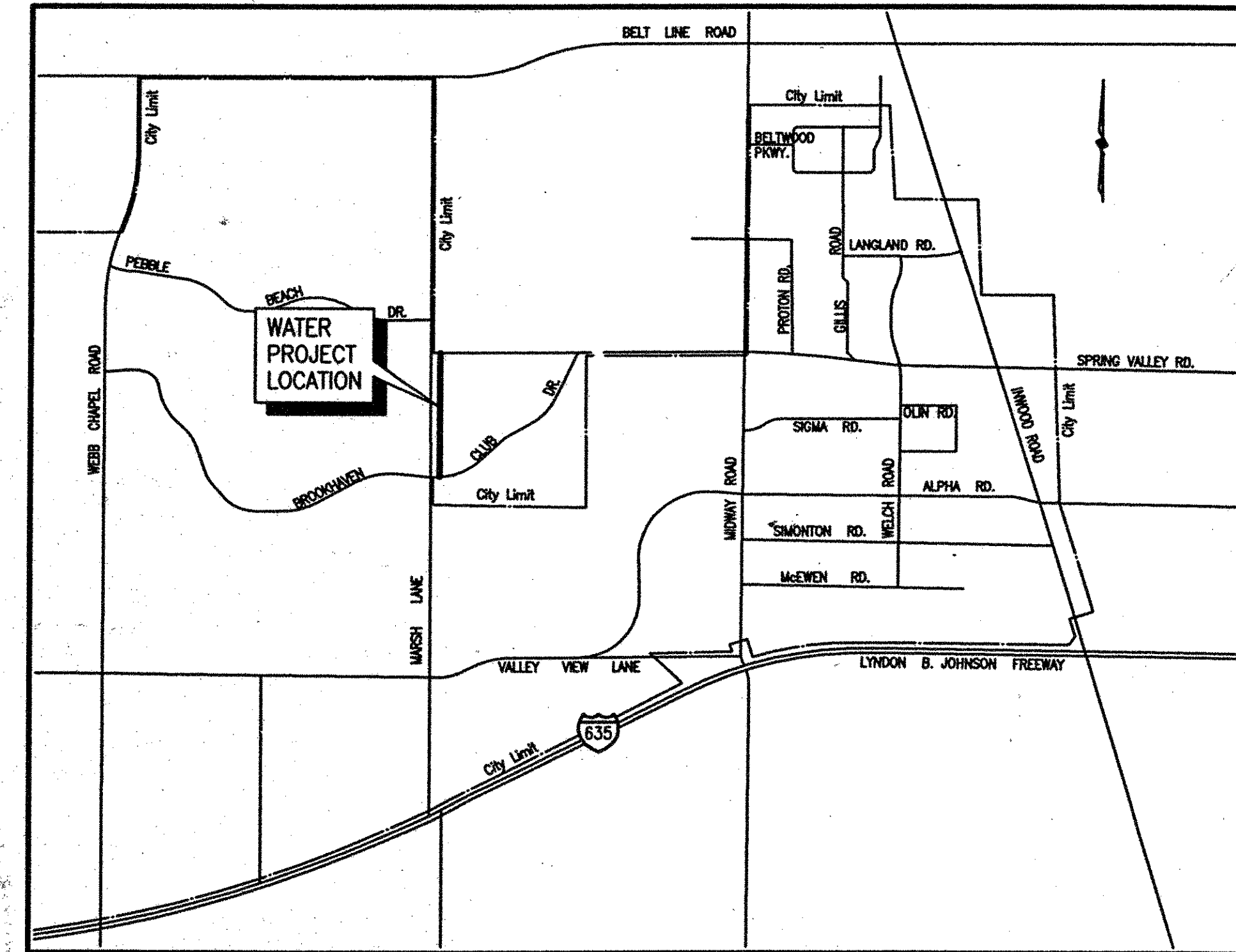


Addison!

CONSTRUCTION PLANS FOR MARSH LANE WATER LINE REPLACEMENT FROM BROOKHEAVEN CLUB DR. TO SPRING VALLEY RD.



LOCATION MAP

SHEET INDEX

SHEET DESCRIPTION	SHEET NO.
MARSH LANE WATER LINE STA. 0+00 TO 5+00	1
MARSH LANE WATER LINE STA. 5+00 TO 10+00	2
MARSH LANE WATER LINE STA. 10+00 TO 15+00	3
MARSH LANE WATER LINE STA. 15+00 TO 20+00	4
MARSH LANE WATER LINE STA. 20+00 TO 23+70.59	5
GENERAL NOTES & DETAILS	6
DETAILS	7
DETAILS	8

DAVE'S COPY

CITY COUNCIL

R. SCOTT WHEELER, MAYOR
 DIANE MALLORY, MAYOR PRO TEM
 GLYNDA TURNER BOB BARRETT
 FRANK R. KLEIN FREDRIC M. SILVER
 CATHY WAYS

CITY MANAGER

RON WHITEHEAD

CITY ENGINEER/ DIRECTOR OF PUBLIC WORKS

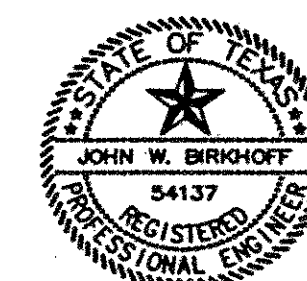
MICHAEL MURPHY, P.E.

CITY SECRETARY

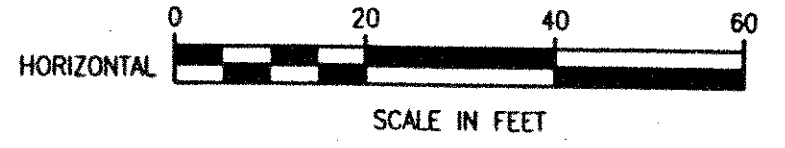
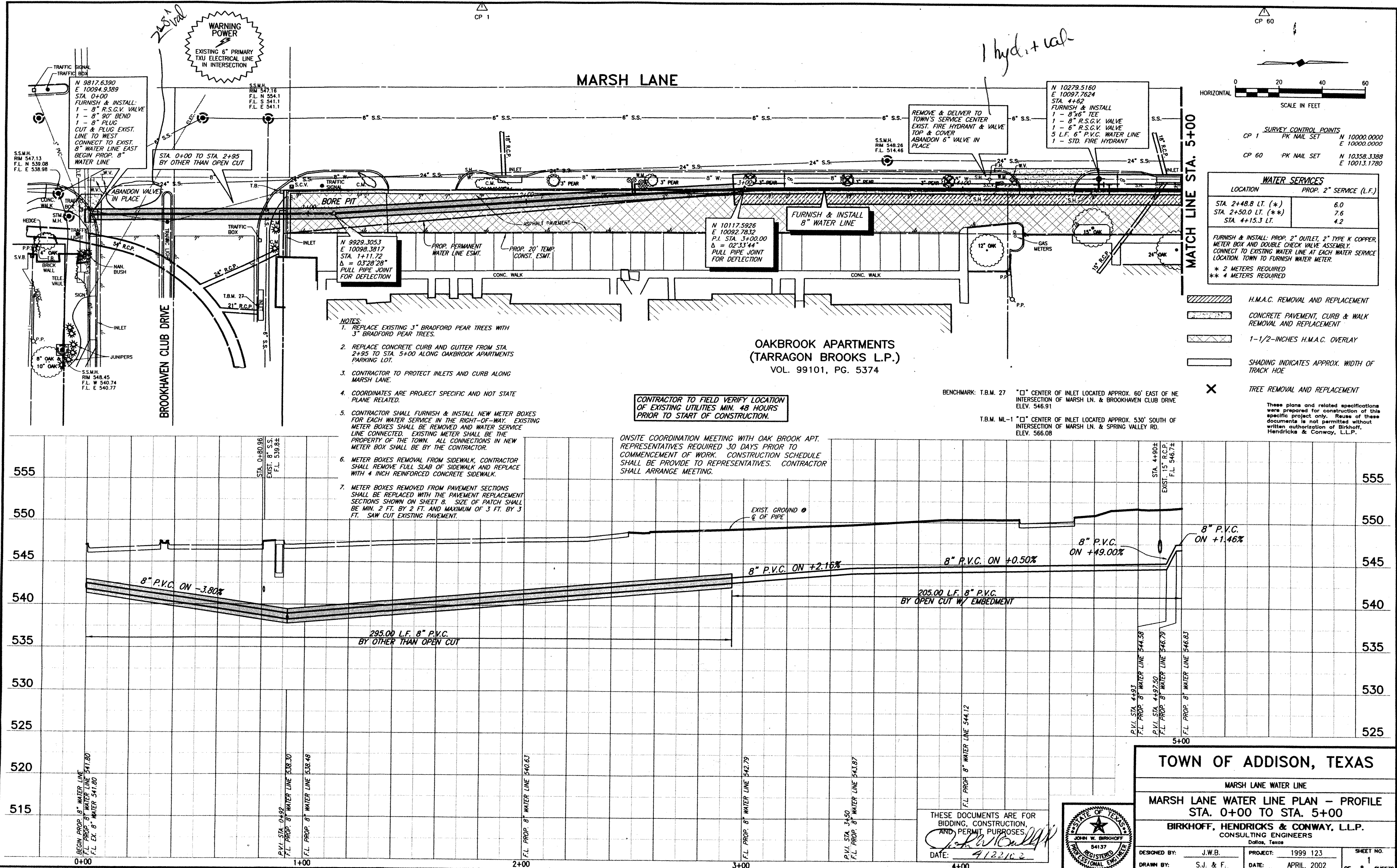
CARMEN MORAN

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

APRIL 2002



THESE DOCUMENTS ARE FOR
 BIDDING, CONSTRUCTION,
 AND PERMIT PURPOSES
 DATE: 4/23/02



SURVEY CONTROL POINTS

CP 1	PK NAIL SET	N 10000.0000	E 10000.0000
CP 60	PK NAIL SET	N 10358.3388	E 10013.1780

WATER SERVICES

LOCATION	PROP. 2" SERVICE (L.F.)
STA. 2+48.8 LT. (*)	6.0
STA. 2+50.0 LT. (**)	7.6
STA. 4+15.3 LT.	4.2

FURNISH & INSTALL: PROP. 2" OUTLET, 2" TYPE K COPPER, METER BOX AND DOUBLE CHECK VALVE ASSEMBLY. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

* 2 METERS REQUIRED
** 4 METERS REQUIRED

- H.M.A.C. REMOVAL AND REPLACEMENT
- CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
- 1-1/2-INCHES H.M.A.C. OVERLAY
- SHADING INDICATES APPROX. WIDTH OF TRACK HOLE
- TREE REMOVAL AND REPLACEMENT

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 Birkhoff, Hendricks & Conway, L.L.P.

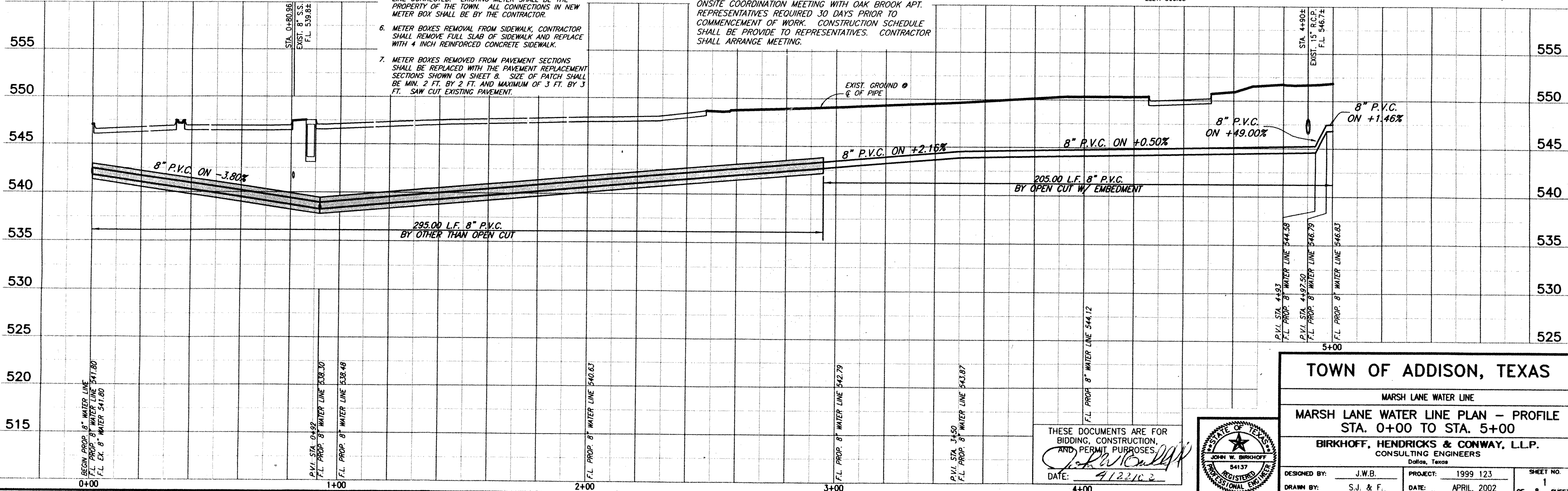
- NOTES:**
- REPLACE EXISTING 3" BRADFORD PEAR TREES WITH 3" BRADFORD PEAR TREES.
 - REPLACE CONCRETE CURB AND GUTTER FROM STA. 2+55 TO STA. 5+00 ALONG OAKBROOK APARTMENTS PARKING LOT.
 - CONTRACTOR TO PROTECT INLETS AND CURB ALONG MARSH LANE.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
 - CONTRACTOR SHALL FURNISH & INSTALL NEW METER BOXES FOR EACH WATER SERVICE IN THE RIGHT-OF-WAY. EXISTING METER BOXES SHALL BE REMOVED AND WATER SERVICE LINE CONNECTED. EXISTING METER SHALL BE THE PROPERTY OF THE TOWN. ALL CONNECTIONS IN NEW METER BOX SHALL BE BY THE CONTRACTOR.
 - METER BOXES REMOVAL FROM SIDEWALK, CONTRACTOR SHALL REMOVE FULL SLAB OF SIDEWALK AND REPLACE WITH 4 INCH REINFORCED CONCRETE SIDEWALK.
 - METER BOXES REMOVED FROM PAVEMENT SECTIONS SHALL BE REPLACED WITH THE PAVEMENT REPLACEMENT SECTIONS SHOWN ON SHEET 8. SIZE OF PATCH SHALL BE MIN. 2 FT. BY 2 FT. AND MAXIMUM OF 3 FT. BY 3 FT. SAW CUT EXISTING PAVEMENT.

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

ONSITE COORDINATION MEETING WITH OAK BROOK APT. REPRESENTATIVES REQUIRED 30 DAYS PRIOR TO COMMENCEMENT OF WORK. CONSTRUCTION SCHEDULE SHALL BE PROVIDED TO REPRESENTATIVES. CONTRACTOR SHALL ARRANGE MEETING.

BENCHMARK: T.B.M. 27 "□" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE. ELEV. 546.91

T.B.M. ML-1 "□" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08



TOWN OF ADDISON, TEXAS

MARSH LANE WATER LINE

MARSH LANE WATER LINE PLAN - PROFILE
STA. 0+00 TO STA. 5+00

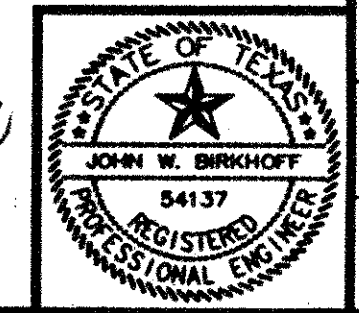
BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 1
DRAWN BY: S.J. & F. DATE: APRIL, 2002 OF 8 SHEETS

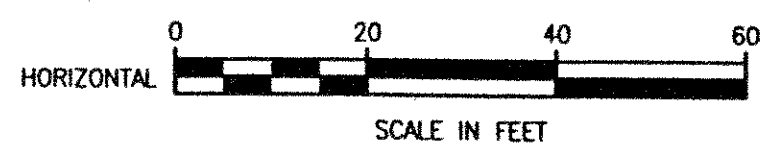
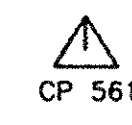
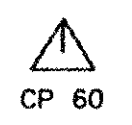
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.

John W. Birkhoff

DATE: 4/22/02



REVISED 04/15/02 R.L. BLOCKS: PROP.W SCALE: 1"=20' 991231WD1.DWG



SURVEY CONTROL POINTS

CP 60	PK NAIL SET	N 10358.3388	E 10013.1780
CP 561	PK NAIL SET	N 10759.9079	E 10025.8270

WATER SERVICES

LOCATION	PROP. 2" SERVICE (L.F.)
STA. 6+14.7 LT.	5.3
STA. 6+16.5 LT.	4.0
STA. 6+73.0 LT.	2.0
STA. 6+78.0 LT.	2.2
* STA. 6+77.0 LT.	1.0
** STA. 6+77.4 LT.	4.0
** STA. 9+60.9 LT.	1.5
** STA. 9+62.4 LT.	1.5

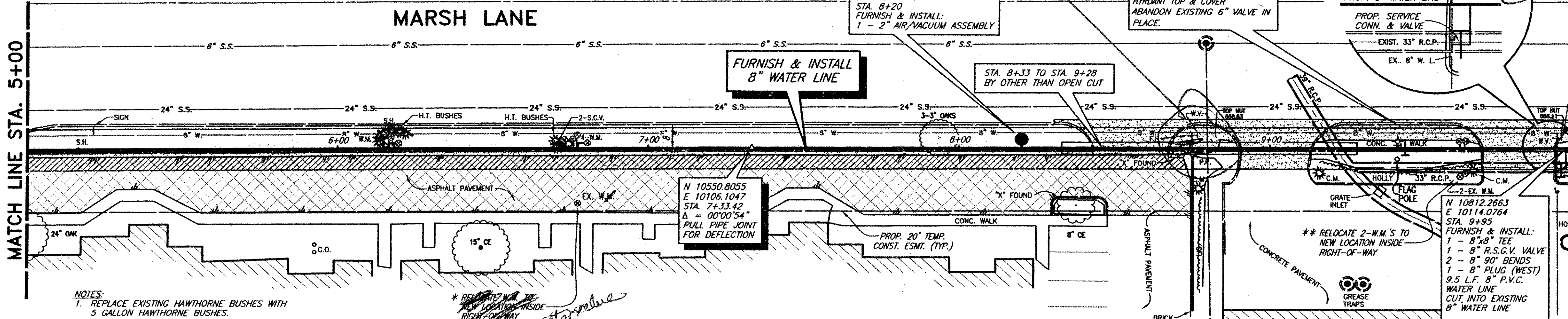
FURNISH & INSTALL: PROP. 2" OUTLET, 2" TYPE K COPPER, METER BOX AND DOUBLE CHECK VALVE ASSEMBLY. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

- H.M.A.C. REMOVAL AND REPLACEMENT
- CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
- 1-1/2-INCHES H.M.A.C. OVERLAY
- SHADING INDICATES APPROX. WIDTH OF TRACK HOE

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MATCH LINE STA. 5+00

MATCH LINE STA. 10+00



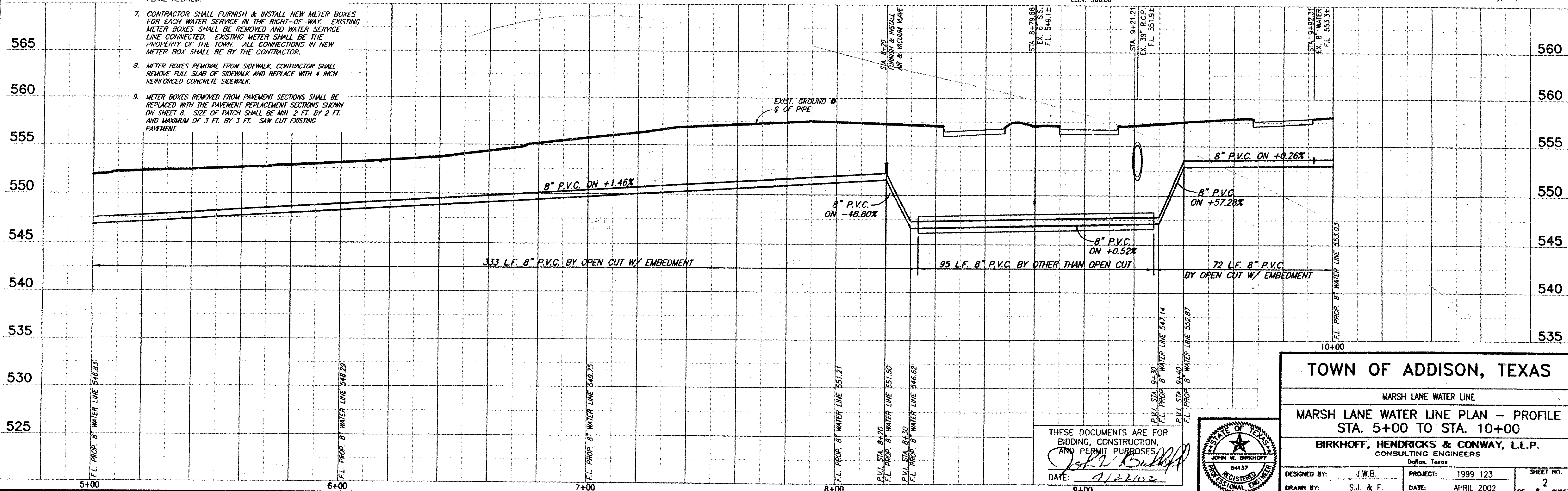
- NOTES:**
- REPLACE EXISTING HAWTHORNE BUSHES WITH 5 GALLON HAWTHORNE BUSHES.
 - REPLACE CONCRETE CURB AND GUTTER FROM STA. 5+00 TO STA. 8+41.65 ALONG THE BROOKS APARTMENTS PARKING LOT.
 - ADJUST WATER METER BOXES IN H.M.A.C. OVERLAY AREAS TO MATCH FINAL GRADE OF OVERLAY.
 - REPLACE SIDEWALK FROM STA. 9+13.51 TO STA. 9+67.65 AND STA. 9+91.78 TO STA. 10+00.
 - CONTRACTOR TO PROTECT INLETS AND CURB ALONG MARSH LANE.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
 - CONTRACTOR SHALL FURNISH & INSTALL NEW METER BOXES FOR EACH WATER SERVICE IN THE RIGHT-OF-WAY. EXISTING METER BOXES SHALL BE REMOVED AND WATER SERVICE LINE CONNECTED. EXISTING METER SHALL BE THE PROPERTY OF THE TOWN. ALL CONNECTIONS IN NEW METER BOX SHALL BE BY THE CONTRACTOR.
 - METER BOXES REMOVAL FROM SIDEWALK, CONTRACTOR SHALL REMOVE FULL SLAB OF SIDEWALK AND REPLACE WITH 4 INCH REINFORCED CONCRETE SIDEWALK.
 - METER BOXES REMOVED FROM PAVEMENT SECTIONS SHALL BE REPLACED WITH THE PAVEMENT REPLACEMENT SECTIONS SHOWN ON SHEET B. SIZE OF PATCH SHALL BE MIN. 2 FT. BY 2 FT. AND MAXIMUM OF 3 FT. BY 3 FT. SAW CUT EXISTING PAVEMENT.

THE BROOKS APARTMENTS
(DAVISTER GREENBROOK CORP.)
VOL. 97209, PG. 1663

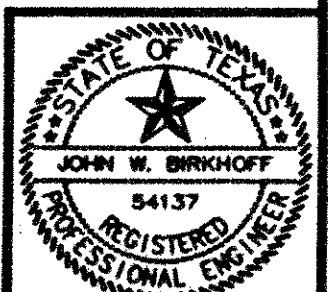
GOODYEAR TIRE
(MILTON WAGER AND GAY GELLER COLEMAN)
VOL. 78139, PG. 769

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

BENCHMARK: T.B.M. 27 "□" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE. ELEV. 546.91
T.B.M. ML-1 "□" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08



THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION AND PERMIT PURPOSES.
DATE: 4/22/02



TOWN OF ADDISON, TEXAS

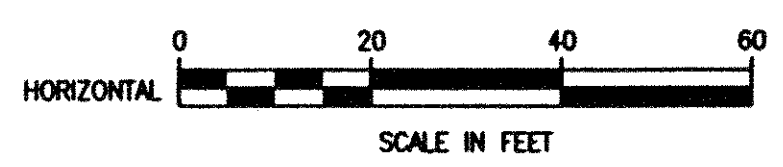
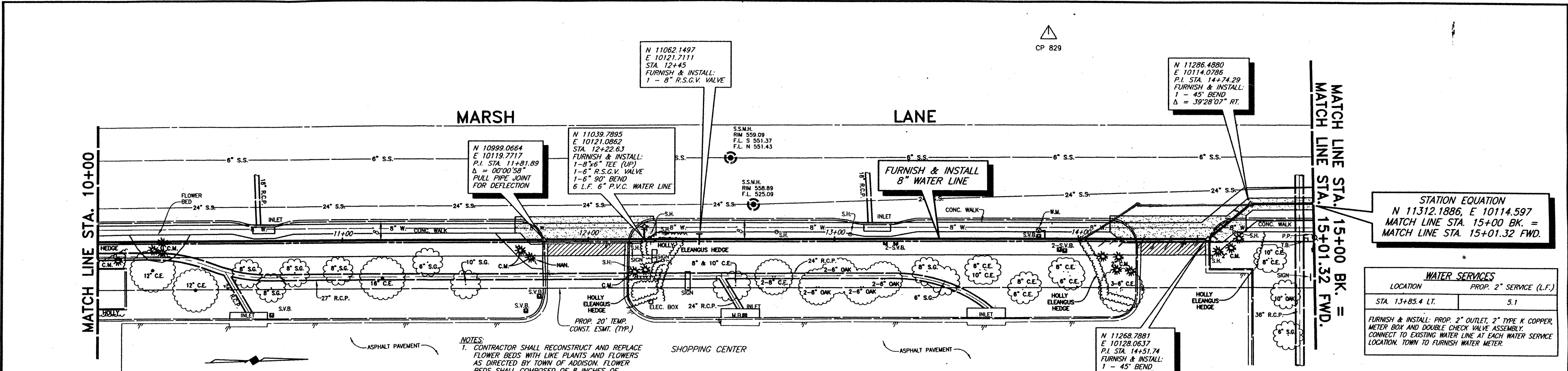
MARSH LANE WATER LINE

MARSH LANE WATER LINE PLAN - PROFILE
STA. 5+00 TO STA. 10+00

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

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 2
DRAWN BY: S.J. & F.	DATE: APRIL 2002	OF 8 SHEETS

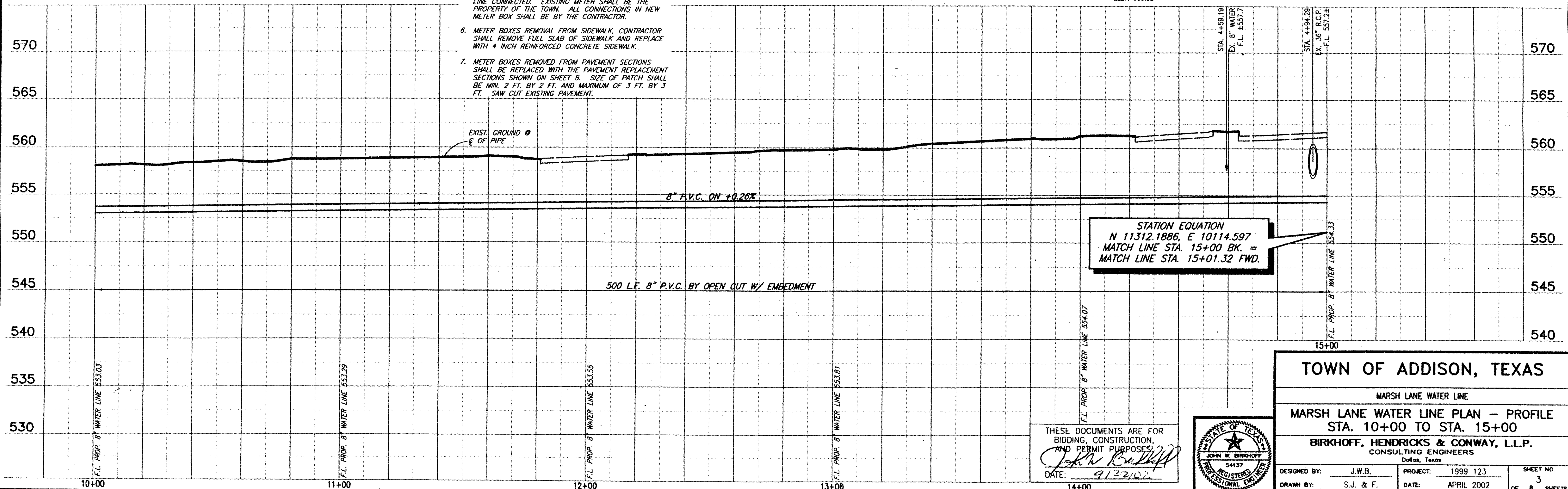
REVISED 04/17/02 R.L. 99123.M02.DWG SCALE: 1"=20' BLOCKS: PROF/W2



SURVEY CONTROL POINTS
 CP 829 PK NAIL SET N 11207.0265 E 10038.2337
 CP 830 PK NAIL SET N 10940.2447 E 10179.0812

- NOTES:**
- CONTRACTOR SHALL RECONSTRUCT AND REPLACE FLOWER BEDS WITH LIKE PLANTS AND FLOWERS AS DIRECTED BY TOWN OF ADDISON. FLOWER BEDS SHALL COMPOSED OF 8 INCHES OF IMPORTED TOP SOIL FOR BEDDING PLANTS.
 - CONTRACTOR SHALL PROTECT INLETS AND CURB ALONG MARSH LANE.
 - REPLACE 5' SIDEWALK FROM STA. 10+00 TO STA. 11+81.25, STA. 12+16.78 TO STA. 14+22.26 AND STA. 14+51.74 TO STA. 14+68.77, 3.84' RT.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
 - CONTRACTOR SHALL FURNISH & INSTALL NEW METER BOXES FOR EACH WATER SERVICE IN THE RIGHT-OF-WAY. EXISTING METER BOXES SHALL BE REMOVED AND WATER SERVICE LINE CONNECTED. EXISTING METER SHALL BE THE PROPERTY OF THE TOWN. ALL CONNECTIONS IN NEW METER BOX SHALL BE BY THE CONTRACTOR.
 - METER BOXES REMOVAL FROM SIDEWALK, CONTRACTOR SHALL REMOVE FULL SLAB OF SIDEWALK AND REPLACE WITH 4 INCH REINFORCED CONCRETE SIDEWALK.
 - METER BOXES REMOVED FROM PAVEMENT SECTIONS SHALL BE REPLACED WITH THE PAVEMENT REPLACEMENT SECTIONS SHOWN ON SHEET 8. SIZE OF PATCH SHALL BE MIN. 2 FT. BY 2 FT. AND MAXIMUM OF 3 FT. BY 3 FT. SAW CUT EXISTING PAVEMENT.

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.



WATER SERVICES	
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 13+85.4 LT.	5.1

FURNISH & INSTALL: PROP. 2" OUTLET, 2" TYPE K COPPER, METER BOX AND DOUBLE CHECK VALVE ASSEMBLY. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

- H.M.A.C. REMOVAL AND REPLACEMENT
- CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
- SHADING INDICATES APPROX. WIDTH OF TRACK HOE

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BENCHMARK: T.B.M. 27 "O" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE. ELEV. 546.91
 T.B.M. ML-1 "O" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08

STATION EQUATION
 N 11312.1886, E 10114.597
 MATCH LINE STA. 15+00 BK. =
 MATCH LINE STA. 15+01.32 FWD.

TOWN OF ADDISON, TEXAS

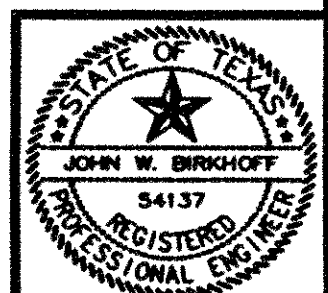
MARSH LANE WATER LINE

MARSH LANE WATER LINE PLAN - PROFILE
 STA. 10+00 TO STA. 15+00

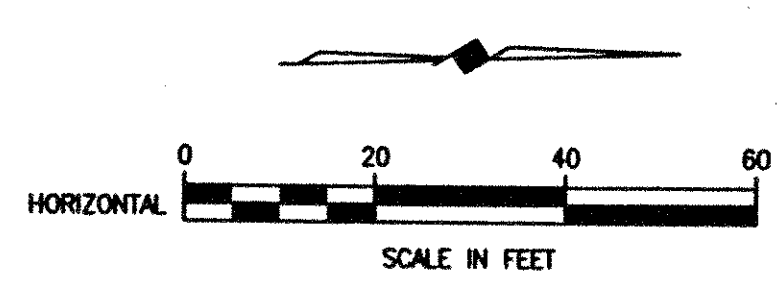
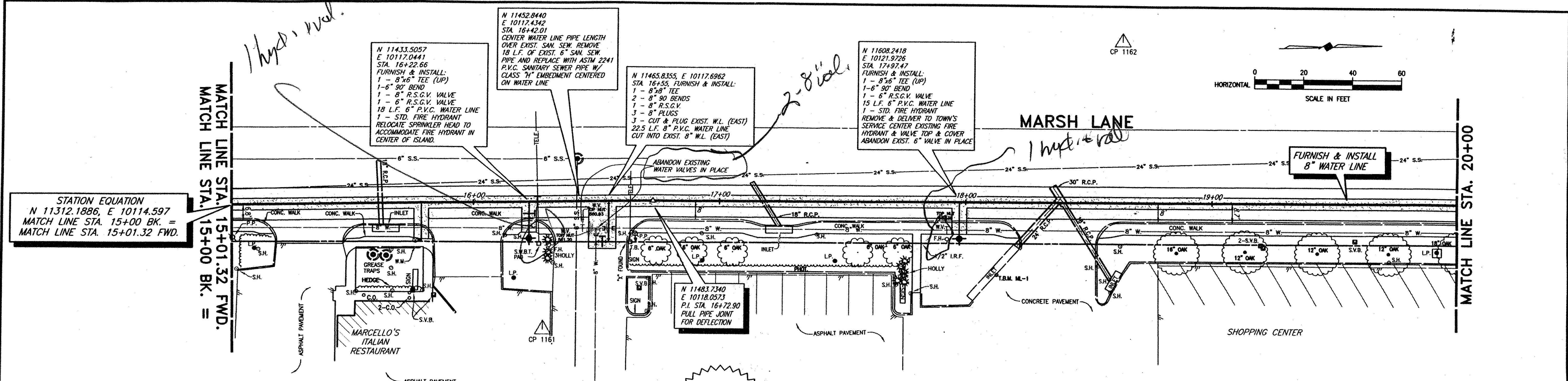
BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
 CONSULTING ENGINEERS
 Dallas, Texas

DESIGNED BY: J.W.B. PROJECT: 1999 123 SHEET NO. 3
 DRAWN BY: S.J. & F. DATE: APRIL 2002 OF 8 SHEETS

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION AND PERMIT PURPOSES.
 DATE: 4/3/02



99123W03.DWG SCALE: 1"=20' BLOCKS: PROFILES
 04/16/02 R.L.



STATION EQUATION
N 11312.1886, E 10114.597
MATCH LINE STA. 15+00 BK. =
MATCH LINE STA. 15+01.32 FWD.

N 11433.5057
E 10117.0441
STA. 16+22.66
FURNISH & INSTALL:
1 - 8"x6" TEE (UP)
1 - 6" 90° BEND
1 - 8" R.S.G.V. VALVE
1 - 6" R.S.G.V. VALVE
18 L.F. 6" P.V.C. WATER LINE
1 - STD. FIRE HYDRANT
RELOCATE SPRINKLER HEAD TO ACCOMMODATE FIRE HYDRANT IN CENTER OF ISLAND.

N 11452.8440
E 10117.4342
STA. 16+42.01
CENTER WATER LINE PIPE LENGTH OVER EXIST. SAN. SEW. REMOVE. 18 L.F. OF EXIST. 6" SAN. SEW. PIPE AND REPLACE WITH ASTM 2241 P.V.C. SANITARY SEWER PIPE W/ CLASS "H" EMBEDMENT CENTERED ON WATER LINE

N 11465.8355, E 10117.6962
STA. 16+55. FURNISH & INSTALL:
1 - 8"x8" TEE
2 - 8" 90° BENDS
1 - 8" R.S.G.V.
3 - 8" PLUGS
3 - CUT & PLUG EXIST. W.L. (EAST)
22.5 L.F. 8" P.V.C. WATER LINE CUT INTO EXIST. 8" W.L. (EAST)

N 11608.2418
E 10121.9726
STA. 17+97.47
FURNISH & INSTALL:
1 - 8"x8" TEE (UP)
1 - 6" 90° BEND
1 - 6" R.S.G.V. VALVE
15 L.F. 6" P.V.C. WATER LINE
1 - STD. FIRE HYDRANT
REMOVE & DELIVER TO TOWN'S SERVICE CENTER EXISTING FIRE HYDRANT & VALVE TOP & COVER ABANDON EXIST. 6" VALVE IN PLACE

WARNING
S.W. BELL BURIED TELEPHONE CABLE CALL ENTERPRISE 9800 72 HOURS PRIOR TO EXCAVATION IN VICINITY OF STA. 16+26 & STA. 16+63

WATER SERVICES	
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 15+78.64 RT.	18.0

FURNISH & INSTALL: PROP. 2" OUTLET, 2" TYPE K COPPER, METER BOX AND DOUBLE CHECK VALVE ASSEMBLY. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

SURVEY CONTROL POINTS

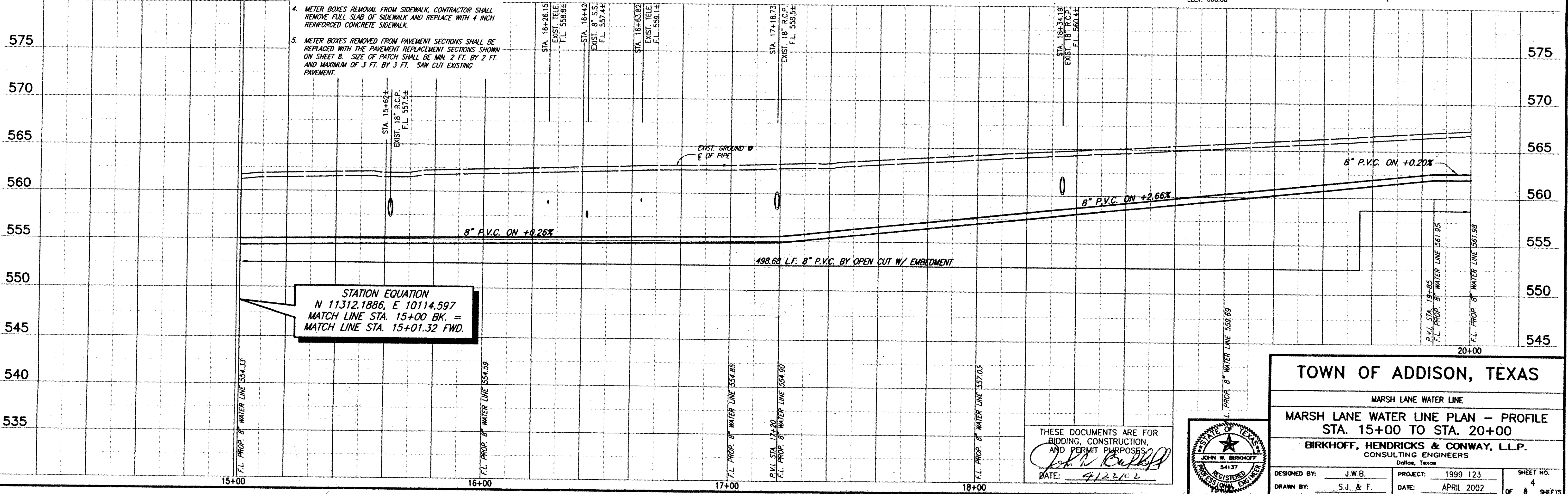
CP 1161 PK NAIL SET	N 11437.5911 E 10170.6581
CP 1162 PK NAIL SET	N 11676.7098 E 10054.0723

- NOTES:**
- CONTRACTOR TO PROTECT INLETS ALONG MARSH LANE.
 - COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
 - CONTRACTOR SHALL FURNISH & INSTALL NEW METER BOXES FOR EACH WATER SERVICE IN THE RIGHT-OF-WAY. EXISTING METER BOXES SHALL BE REMOVED AND WATER SERVICE LINE CONNECTED. EXISTING METER SHALL BE THE PROPERTY OF THE TOWN. ALL CONNECTIONS IN NEW METER BOX SHALL BE BY THE CONTRACTOR.
 - METER BOXES REMOVAL FROM SIDEWALK. CONTRACTOR SHALL REMOVE FULL SLAB OF SIDEWALK AND REPLACE WITH 4 INCH REINFORCED CONCRETE SIDEWALK.
 - METER BOXES REMOVED FROM PAVEMENT SECTIONS SHALL BE REPLACED WITH THE PAVEMENT REPLACEMENT SECTIONS SHOWN ON SHEET B. SIZE OF PATCH SHALL BE MIN. 2 FT. BY 2 FT. AND MAXIMUM OF 3 FT. BY 3 FT. SAW CUT EXISTING PAVEMENT.

CONCRETE PAVEMENT, CURB & WALK REMOVAL AND REPLACEMENT
SHADING INDICATES APPROX. WIDTH OF TRACK HOE

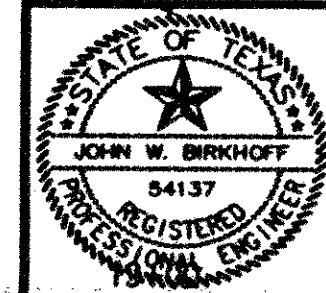
BENCHMARK: T.B.M. 27
"□" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91
T.B.M. ML-1 "□" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08

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 Birkhoff, Hendricks & Conway, L.L.P.



STATION EQUATION
N 11312.1886, E 10114.597
MATCH LINE STA. 15+00 BK. =
MATCH LINE STA. 15+01.32 FWD.

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
John W. Birkhoff
DATE: 4/22/02



TOWN OF ADDISON, TEXAS

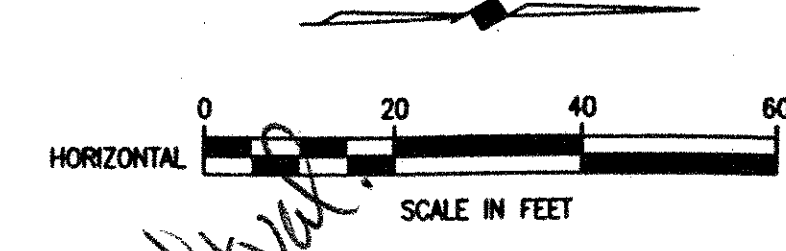
MARSH LANE WATER LINE

MARSH LANE WATER LINE PLAN - PROFILE
STA. 15+00 TO STA. 20+00

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
REGISTERED PROFESSIONAL ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 4
DRAWN BY: S.J. & F.	DATE: APRIL 2002	OF 8 SHEETS

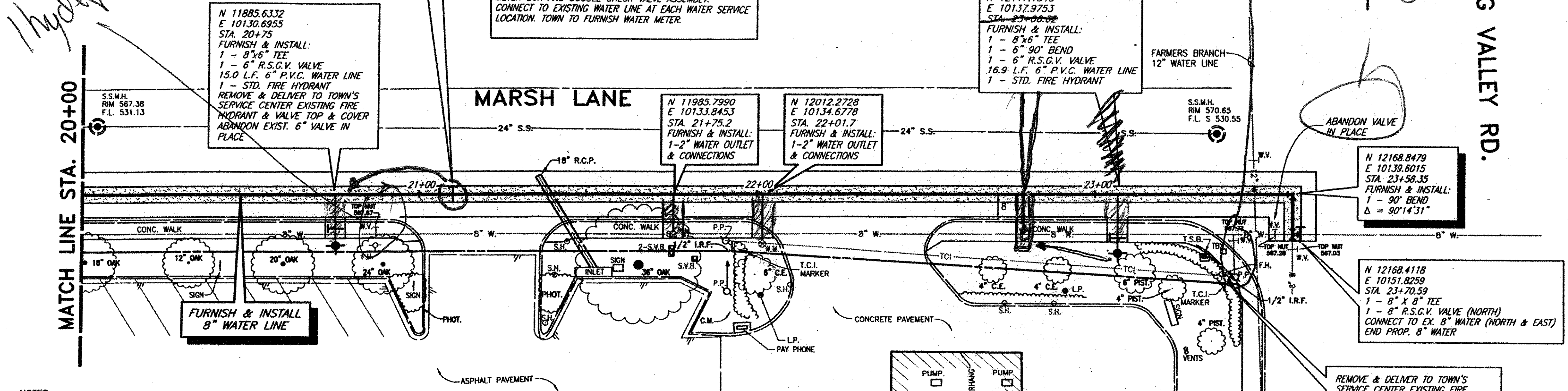
REVISED 04/17/02 R.L. 99123M/D/L/D/G SCALE: 1"=20' BLOCKS: PROP/W



WATER SERVICES	
LOCATION	PROP. 2" SERVICE (L.F.)
STA. 21+75.2 RT.	11.4
STA. 22+01.7 RT.	14.3

FURNISH & INSTALL: PROP. 2" OUTLET, 2" TYPE K COPPER, METER BOX AND DOUBLE CHECK VALVE ASSEMBLY. CONNECT TO EXISTING WATER LINE AT EACH WATER SERVICE LOCATION. TOWN TO FURNISH WATER METER.

SURVEY CONTROL POINTS	
CP 1478 PK NAIL SET	N 12044.0625 E 10066.3496
CP 1563 PK NAIL SET	N 12001.6704 E 10206.8181

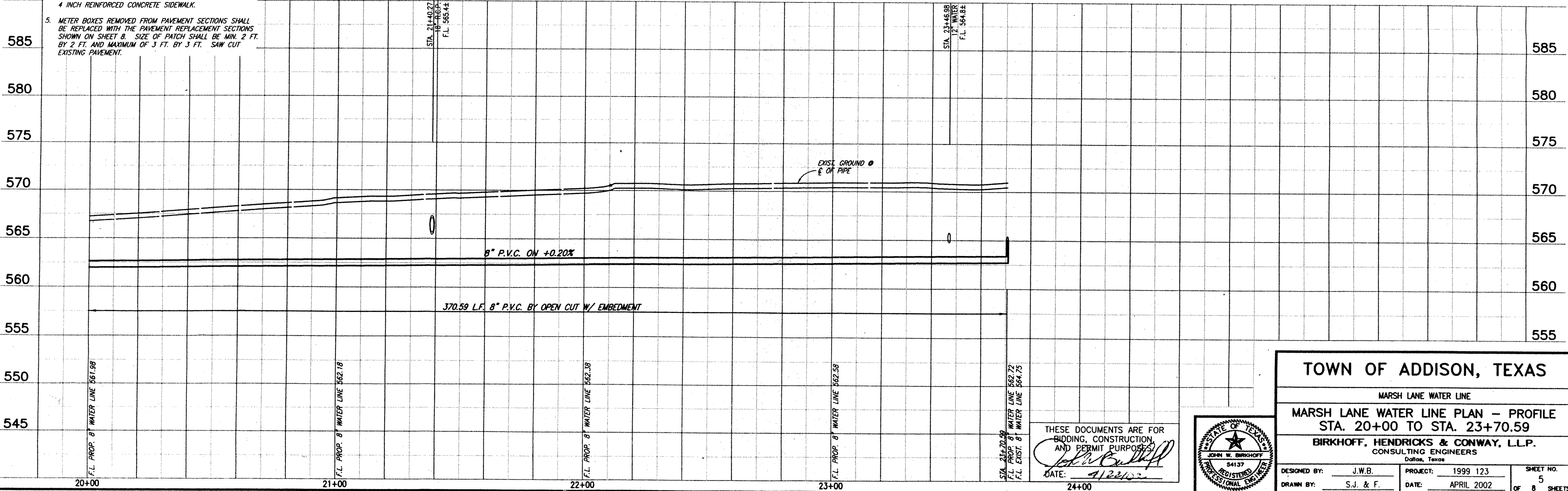


- NOTES:**
- COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
 - CONTRACTOR TO PROTECT INLETS AND CURB ALONG MARSH LANE.
 - CONTRACTOR SHALL FURNISH & INSTALL NEW METER BOXES FOR EACH WATER SERVICE IN THE RIGHT-OF-WAY. EXISTING METER BOXES SHALL BE REMOVED AND WATER SERVICE LINE CONNECTED. EXISTING METER SHALL BE THE PROPERTY OF THE TOWN. ALL CONNECTIONS IN NEW METER BOX SHALL BE BY THE CONTRACTOR.
 - METER BOXES REMOVAL FROM SIDEWALK, CONTRACTOR SHALL REMOVE FULL SLAB OF SIDEWALK AND REPLACE WITH 4 INCH REINFORCED CONCRETE SIDEWALK.
 - METER BOXES REMOVED FROM PAVEMENT SECTIONS SHALL BE REPLACED WITH THE PAVEMENT REPLACEMENT SECTIONS SHOWN ON SHEET 8. SIZE OF PATCH SHALL BE MIN. 2 FT. BY 2 FT. AND MAXIMUM OF 3 FT. BY 3 FT. SAW CUT EXISTING PAVEMENT.

- BENCHMARKS:**
- TBM 27 "O" CENTER OF INLET LOCATED APPROX. 60' EAST OF NE INTERSECTION OF MARSH LN. & BROOKHAVEN CLUB DRIVE ELEV. 546.91
 - TBM ML-1 "O" CENTER OF INLET LOCATED APPROX. 530' SOUTH OF INTERSECTION OF MARSH LN. & SPRING VALLEY RD. ELEV. 566.08

CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION.

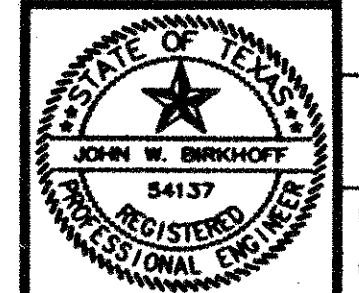
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TOWN OF ADDISON, TEXAS		
MARSH LANE WATER LINE		
MARSH LANE WATER LINE PLAN - PROFILE STA. 20+00 TO STA. 23+70.59		
BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 5
DRAWN BY: S.J. & F.	DATE: APRIL 2002	OF 8 SHEETS

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

John W. Birkhoff
DATE: 4/24/02

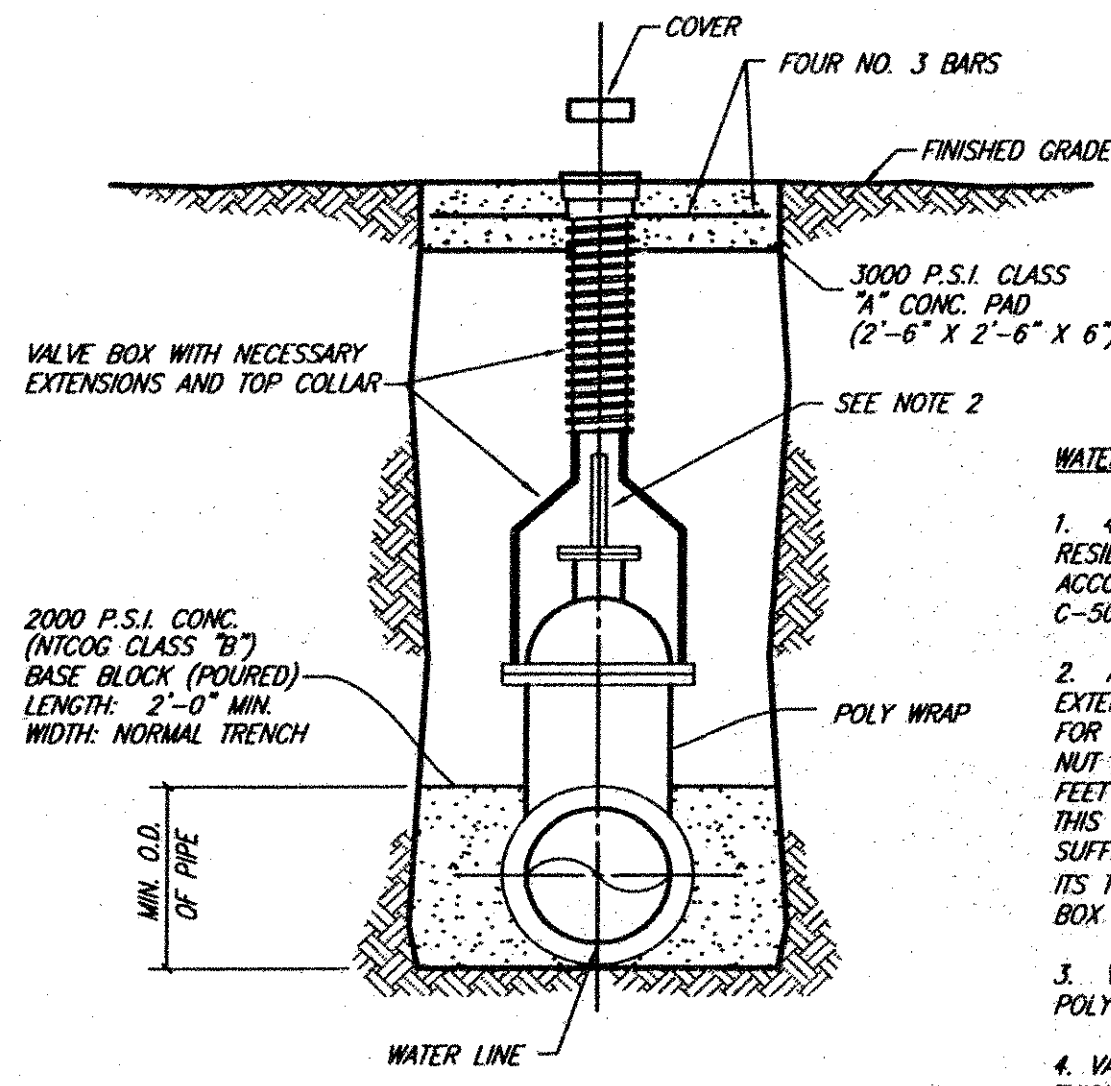


REVISED 04/18/02 R.L. 99123MKS.DWG SCALE: 1"=20' BLOCKS: PROP. 16"

GENERAL NOTES

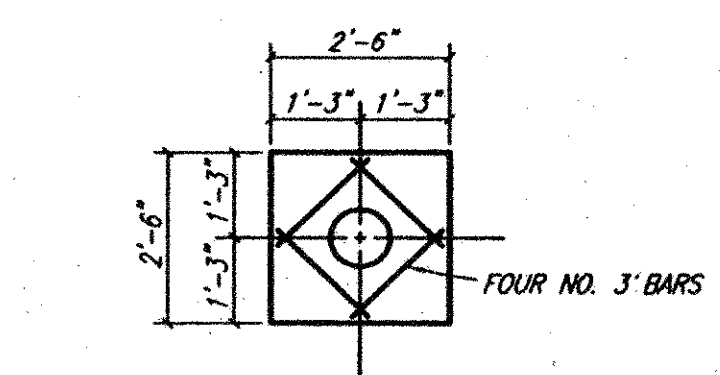
(NOTES APPLY TO ALL SHEETS)

- 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
 - ONCOR (TXU)
 - VERIZON
 - CABLE TELEPHONE
 - T.C.I. CABLE TV
- ALL PAVEMENT SHALL BE SAWCUT FOR TRENCHES. SAWCUTS SHALL BE FULL DEPTH.
- ALL CONCRETE PAVEMENT (ROADWAYS, CURB & CUTTERS, DRIVES, AND SIDEWALKS, ETC.) SHALL BE FULL DEPTH SAWCUT 18 INCH LONG NO. 4 DOWELS SHALL BE DRILLED INTO EXISTING PAVEMENT. CONTRACTOR SHALL UTILIZE A DRILLING BIT 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.
- 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. IRRIGATION REPAIR SHALL OCCUR WITHIN 48 HOURS OF DAMAGE OR AS PIPE LAYING TRAIN PASSES AFFECTED AREA. ALL COST SHALL BORNE BY THE CONTRACTOR. SEE SPECIFICATIONS.
- 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/ DRIVEWAYS, ETC. SHALL REMAIN OPEN DURING CONSTRUCTION. AT LEAST ONE WAY TRAFFIC (USING A 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 CONVENIENCE 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.
- 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 DELIVERED TO TOWN'S SERVICE CENTER BY THE CONTRACTOR.
- 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 VALRICO, FLORIDA (813-681-6024). 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 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).
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE DRIVE WAY OPEN TO ALL RESIDENTS AND BUSINESSES DURING CONSTRUCTION. DRIVEWAYS THAT ARE CLOSED FOR CONSTRUCTION SHALL BE DONE BETWEEN THE HOURS OF 9 AM AND 4 PM. ALL DRIVEWAYS CLOSED FOR CONSTRUCTION SHALL BE OPENED BY PLACEMENT OF STEEL PLATES OR BACKFILLED WITH ALL WEATHER SURFACE IMMEDIATELY AFTER WATER LINE IS CONSTRUCTED.
- MARSH LANE NORTHBOUND SHALL BE OPEN TO TRAFFIC AT ALL TIMES. WITHIN THE CONSTRUCTION ZONE THE CONTRACTOR MAY CLOSE DOWN MARSH LANE TO ONE LANE OF TRAFFIC FROM 7 AM TO 3 PM. AT ALL OTHER TIMES A MINIMUM OF TWO LANES OF TRAFFIC SHALL BE MAINTAINED. CONTRACTOR SHALL SUBMIT BARRICADE AND PHASING PLAN FOR TOWN'S REVIEW AND APPROVAL A MINIMUM OF 10 DAYS PRIOR TO ROAD CLOSURES. (SEE SPECIFICATIONS)
- CONTRACTOR SHALL PLACE 1-1/2 INCH HMAC OVERLAY ON APARTMENT COMPLEX PARKING LOT AS SHOWN. AREAS OUTSIDE OF DESIGNATED AREAS DAMAGED BY CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
- COORDINATES ARE PROJECT SPECIFIC AND NOT STATE PLANE RELATED.
- HMAC OVERLAY SHALL BE A MINIMUM 1-1/2 INCH COMPACTED IN PLACE AND ALLOW FOR POSITIVE DRAINAGE. EXISTING SURFACE SHALL RECEIVE A TACK COAT PRIOR TO OVERLAY.
- EXISTING WATER LINE SHALL REMAIN IN SERVICE UNTIL PROPOSED MAIN IS ACCEPTED BY TOWN OF ADDISON.



VALVE SETTING & BOX

NO SCALE

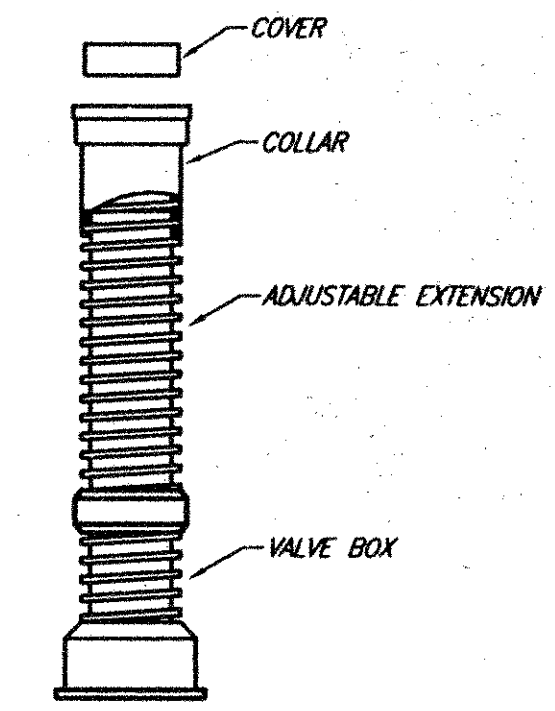


VALVE BOX PAD PLAN

NO SCALE

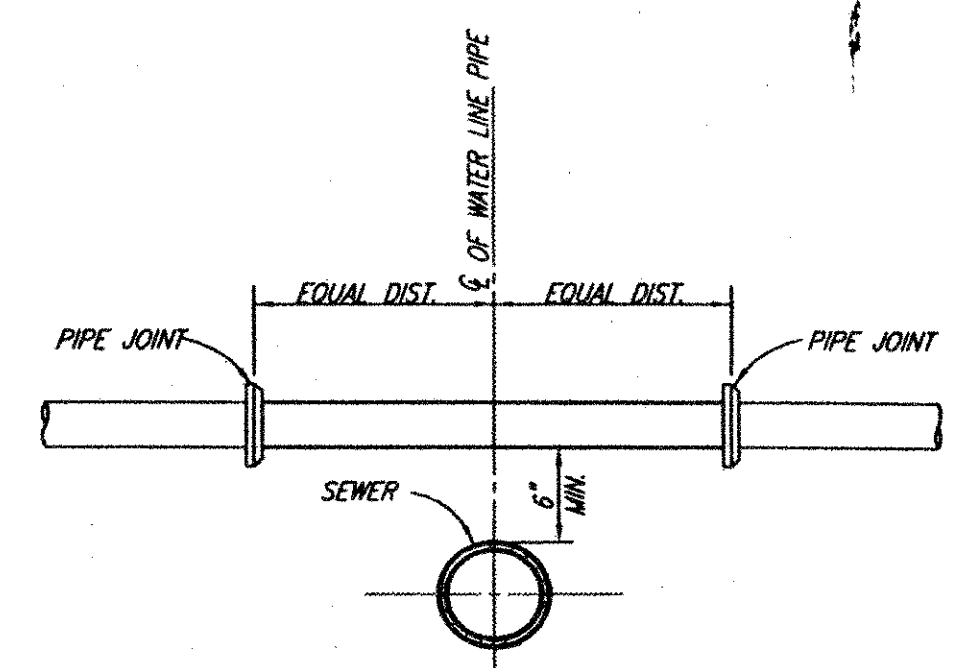
WATER VALVE NOTES:

- 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.
- VALVE PAD SHALL BE 6 INCHES THICK AND BE 3000 PSI CONCRETE.



VALVE BOX WITH EXTENSION

NO SCALE



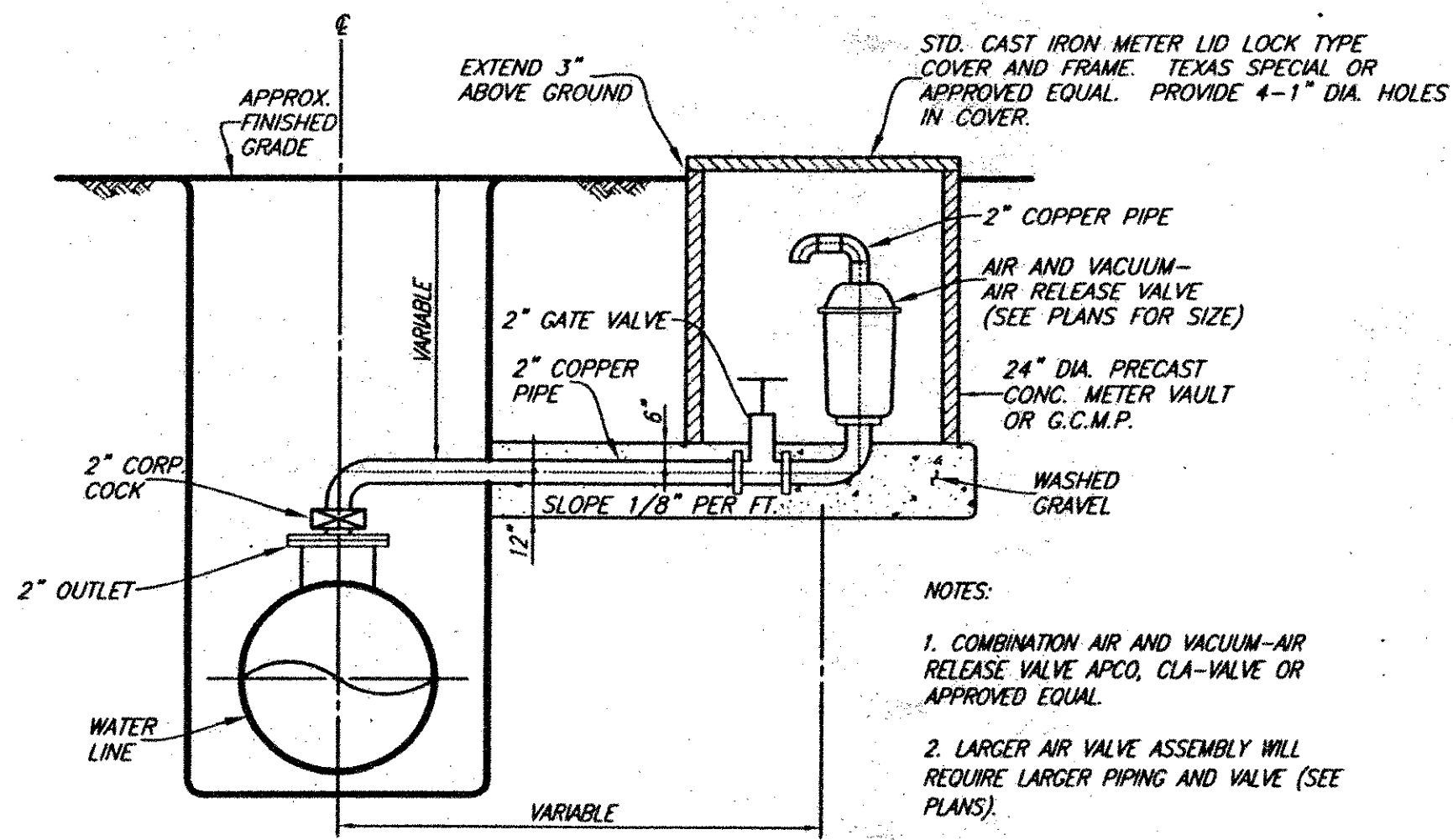
TYPICAL WATER/SEWER CROSSING

NO SCALE

WATER LINE PHASING

(NOTES APPLY TO ALL SHEETS)

- CONTRACTOR SHALL CONSTRUCT WATER LINE FROM STATION 0+00 TO STATION 16+17.
- CONTRACTOR SHALL TEST LINE AND HAVE ACCEPTED BY TOWN OF ADDISON.
- CONTRACTOR SHALL MAKE SERVICE CONNECTIONS.
- CONTRACTOR SHALL CONSTRUCT WATER LINE FROM 16+17 TO END OF PROJECT.
- CONTRACTOR SHALL TEST WATER LINE STARTING FROM 16+17 TO END OF LINE AND HAVE ACCEPTED BY TOWN OF ADDISON.
- CONTRACTOR SHALL MAKE REMAINING SERVICE CONNECTIONS.



AIR AND VACUUM - AIR RELEASE VALVE INSTALLATION

(AIR VALVE)

NOTES:

- COMBINATION AIR AND VACUUM-AIR RELEASE VALVE APCO, CLA-VALVE OR APPROVED EQUAL.
- LARGER AIR VALVE ASSEMBLY WILL REQUIRE LARGER PIPING AND VALVE (SEE PLANS).

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TOWN OF ADDISON, TEXAS

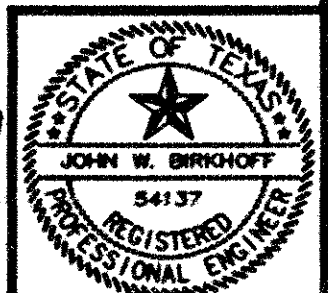
MARSH LANE WATER LINE

GENERAL NOTES & DETAILS

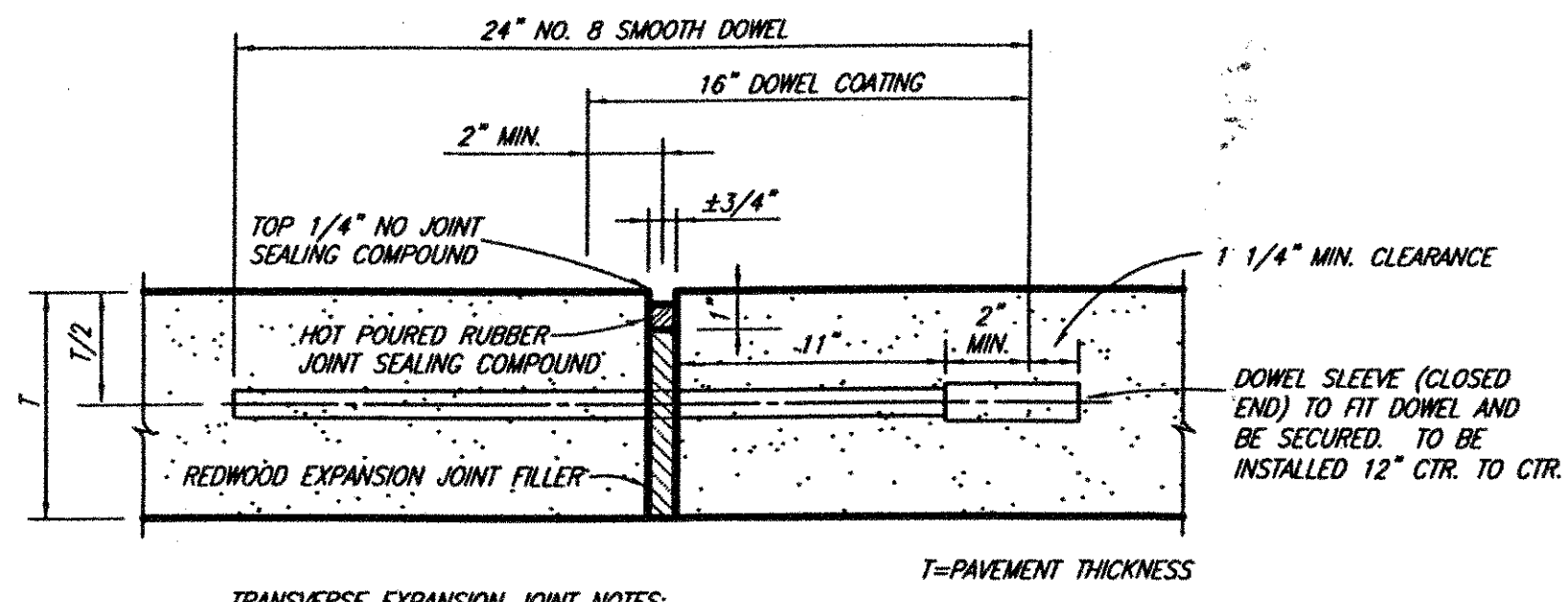
BIRKHOFF, HENDRICKS & CONWAY, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 6
DRAWN BY: S.J. & F.	DATE: APRIL 2002	OF 8 SHEETS

THESE DOCUMENTS ARE FOR BIDDING CONSTRUCTION AND PERMIT PURPOSES
John W. Birkhoff
DATE: 4/22/02



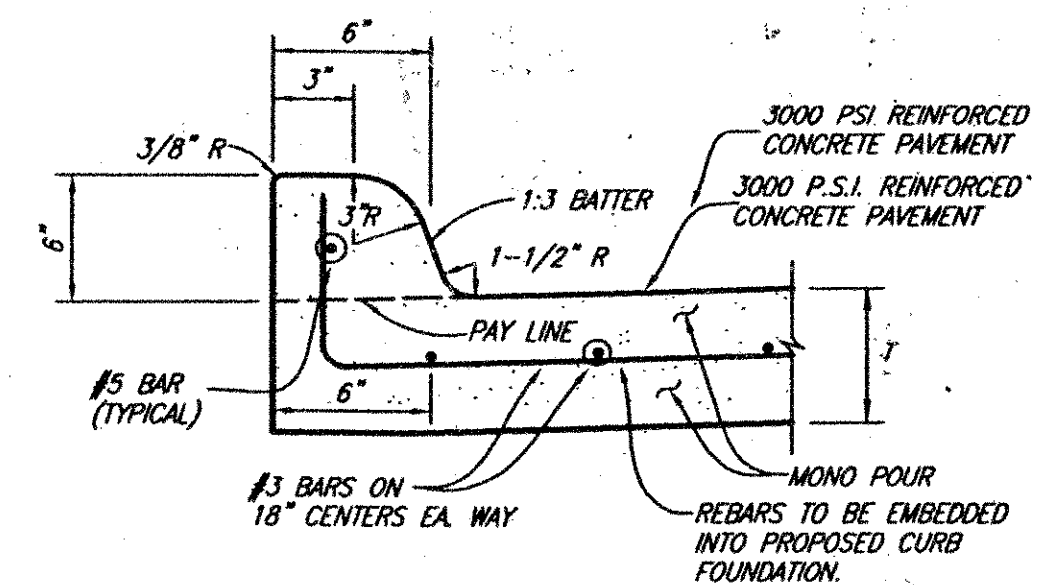
04/17/02 R.L. 99123MWB.DWG BLOCKS: ABBE-2, W.-SSX, YARDV, WMANHOLE



TRANSVERSE EXPANSION JOINT NOTES:

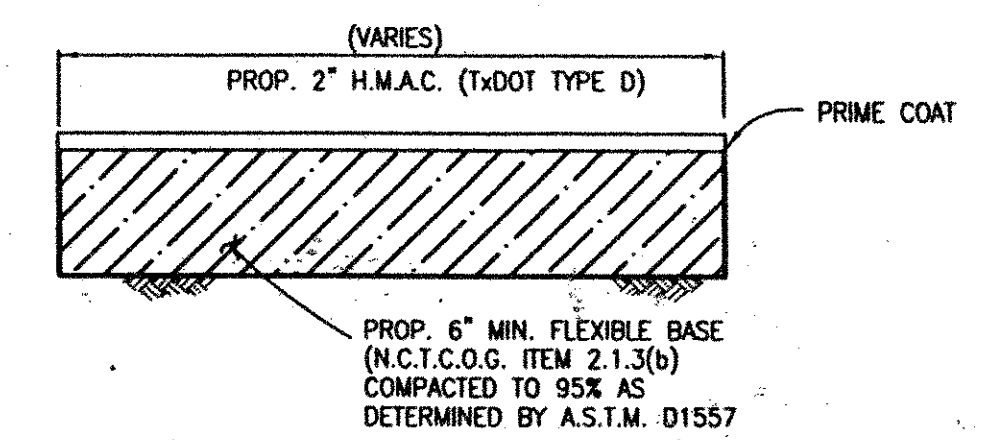
1. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
2. TRANSVERSE EXPANSION JOINTS SHALL BE SPACED AT 400 FT. MAXIMUM AND AT ALL INTERSECTIONS.

TRANSVERSE EXPANSION JOINT
NO SCALE

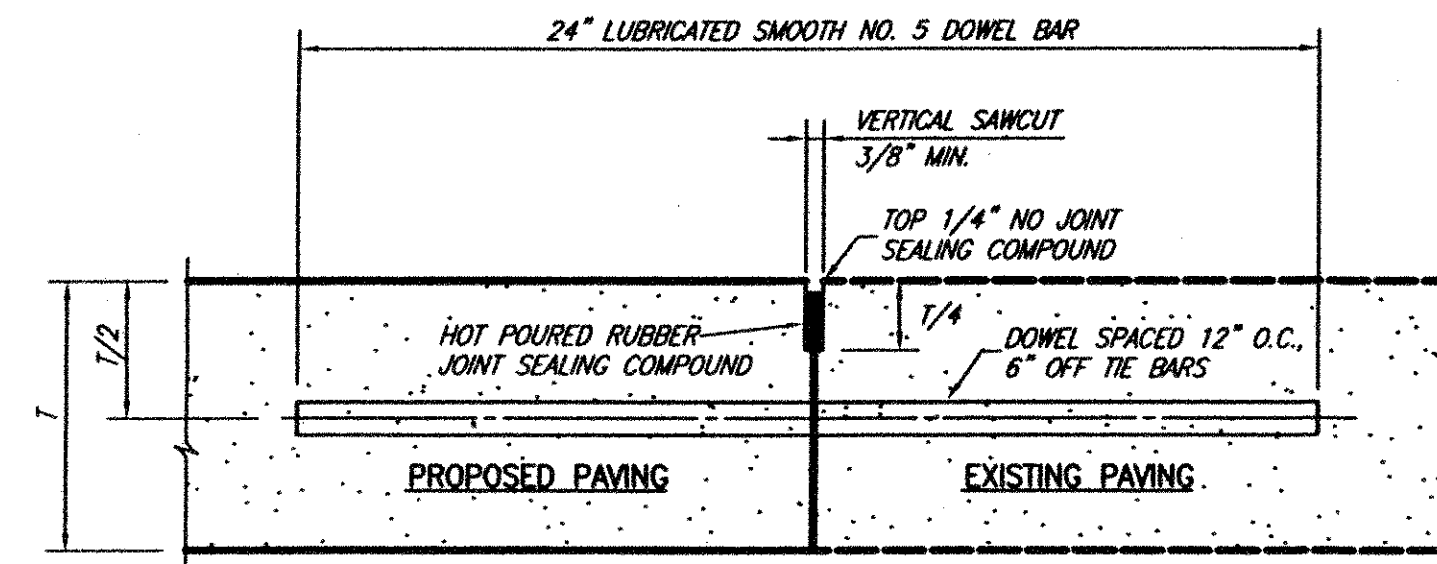


INTEGRAL CURB

- 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 10" REINFORCED, 4000 P.S.I. STRENGTH AT 28 DAYS.

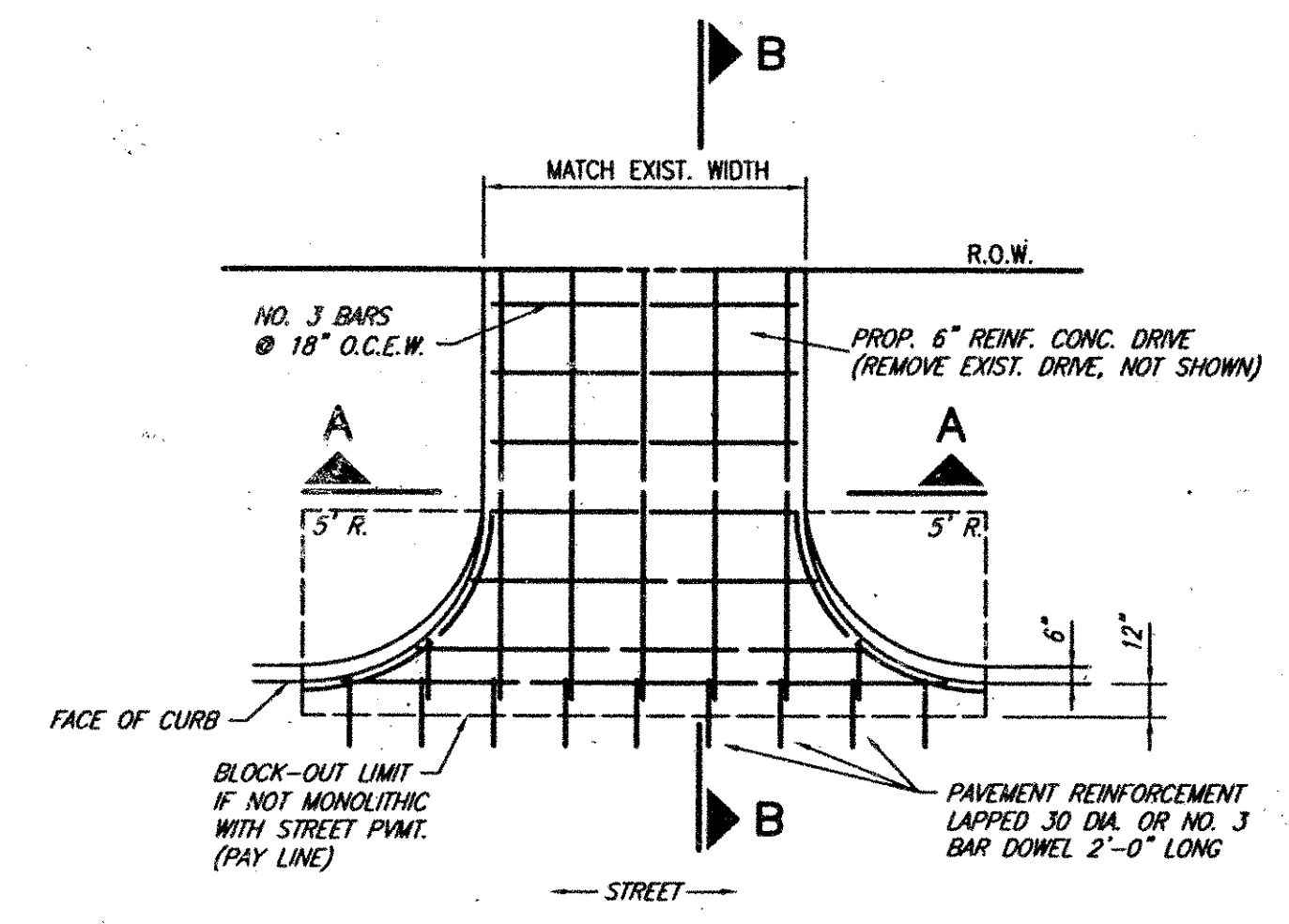


ASPHALT PAVEMENT REPAIR OUTSIDE PIPE REPAIR
NOT TO SCALE

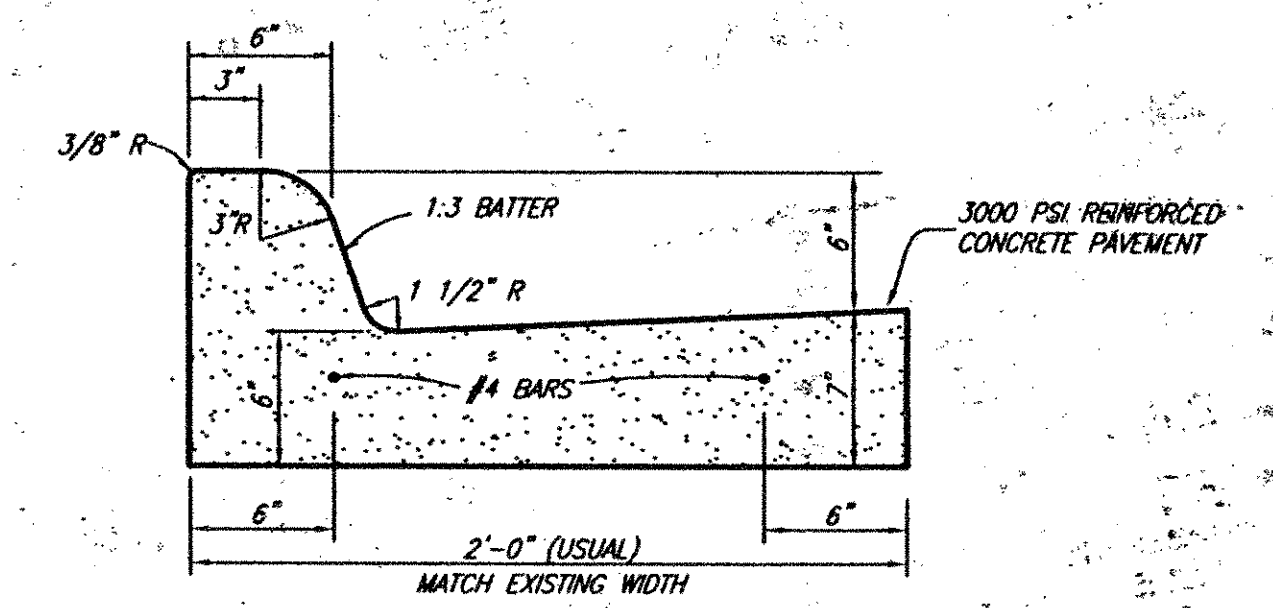


NOTE: DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

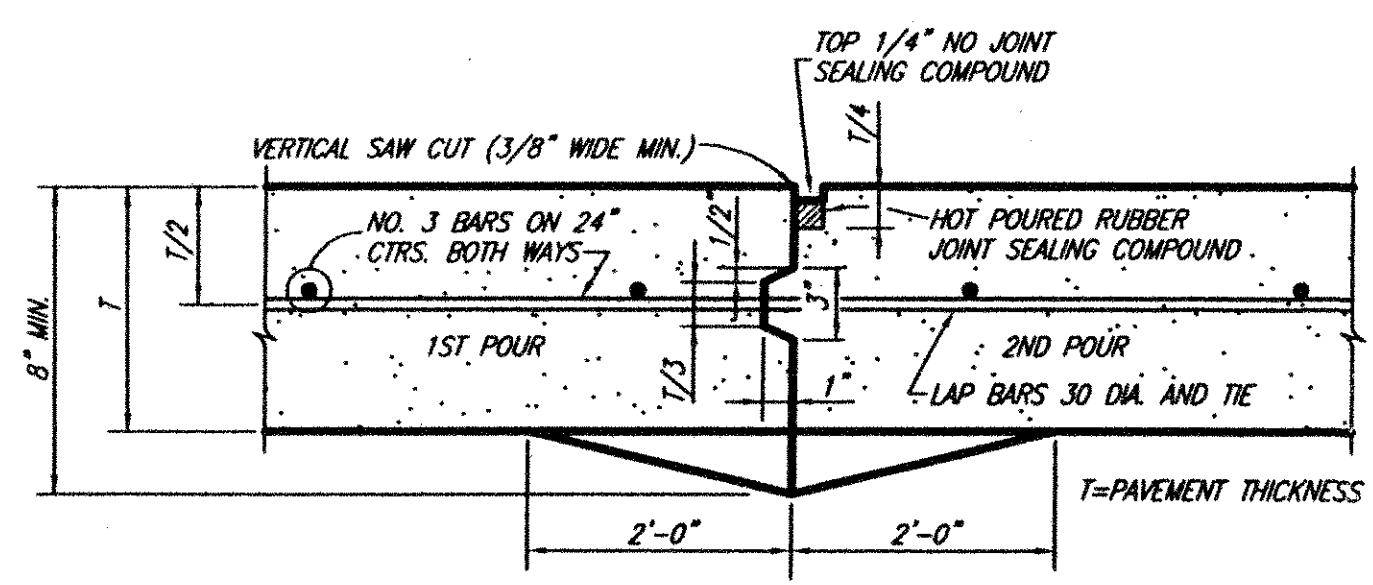
CONNECTION TO EXISTING PAVEMENT
NOT TO SCALE



DRIVEWAY RETURN TO STREET



CONCRETE CURB AND GUTTER
NO SCALE

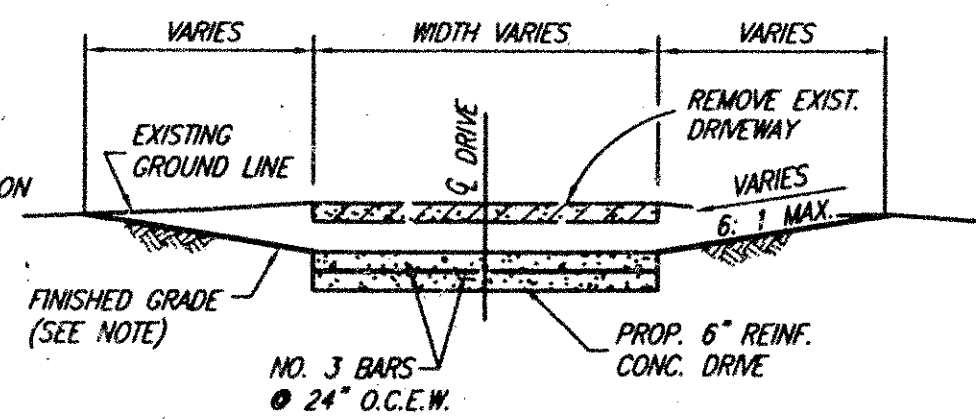


CONSTRUCTION JOINT NOTES:

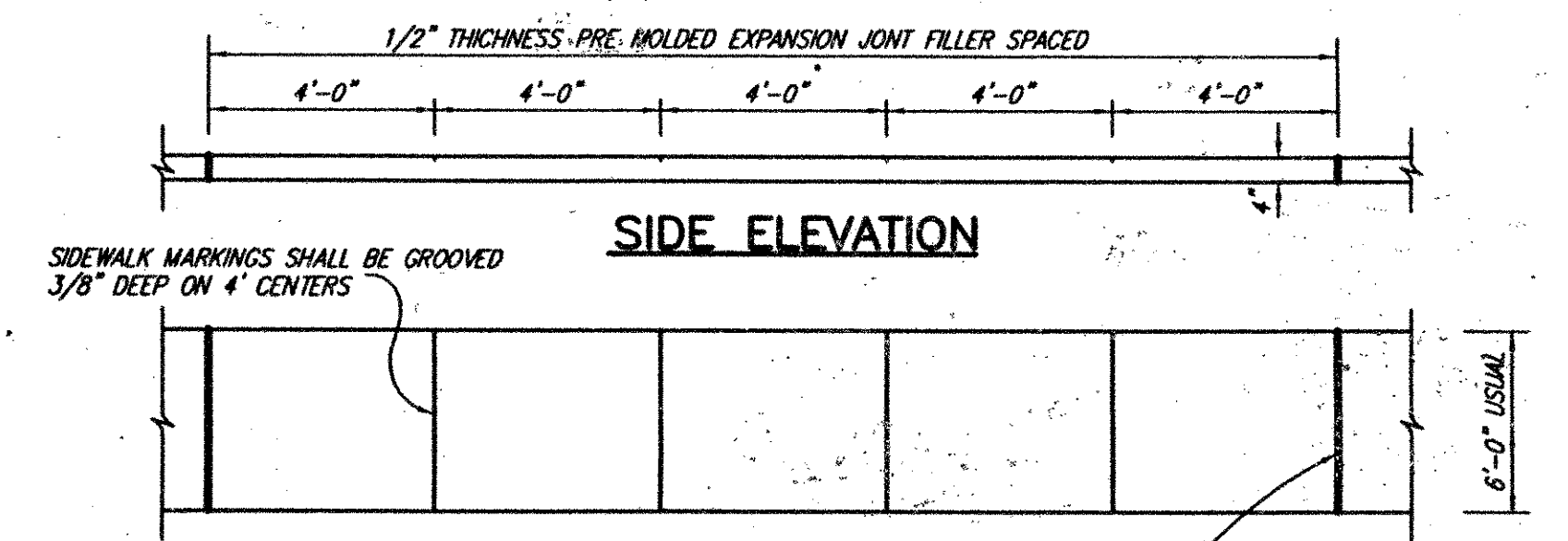
1. CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT (DRILL DOWELS INTO FIRST POUR).
2. THICKENED EDGES ARE REQUIRED FOR FUTURE WIDENING ONLY.

CONSTRUCTION JOINT
NO SCALE

NOTE: FINISHED GRADING WITHIN THE R.O.W. SHALL BE BLOCK SODDING TO RESTORE THE LANDSCAPING TO ITS PRE-CONSTRUCTION APPEARANCE OR BETTER.



SECTION A-A

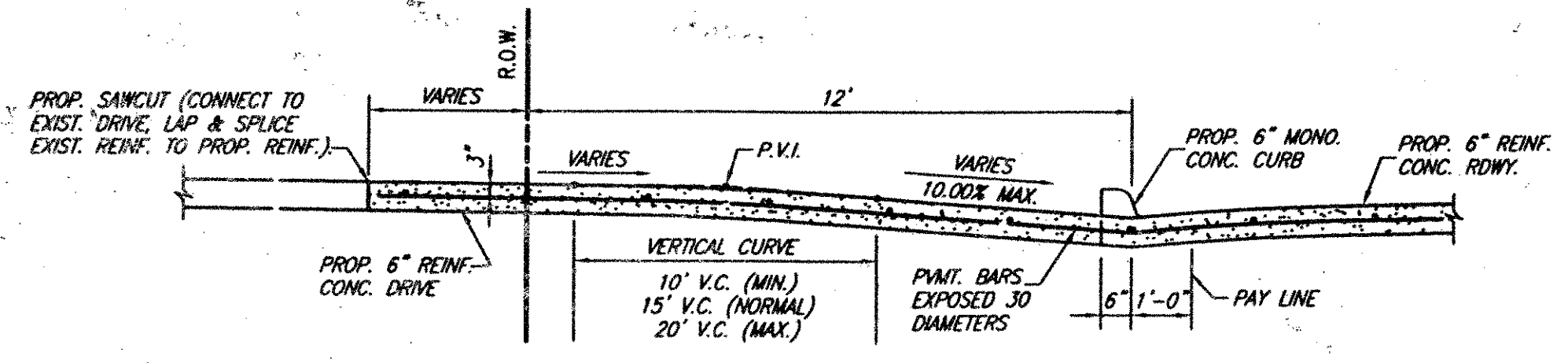


SIDE ELEVATION

PLAN

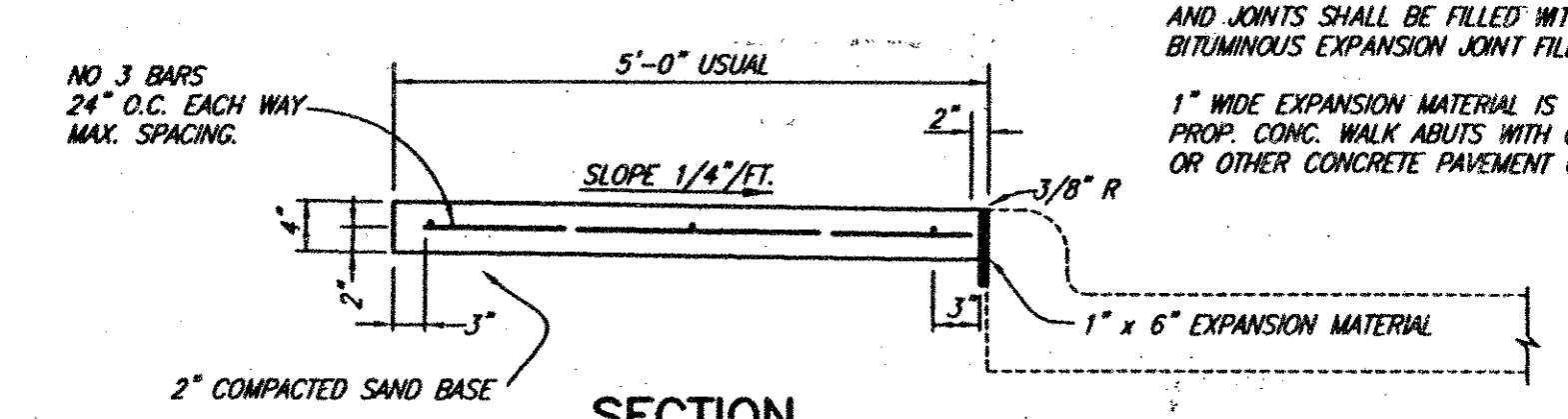
1/2" EXPANSION JOINTS SHALL BE SPACED AT 20' INTERVALS OR AS OTHERWISE SPECIFIED AND JOINTS SHALL BE FILLED WITH PREMOLDED BITUMINOUS EXPANSION JOINT FILLER.

1" WIDE EXPANSION MATERIAL IS REQUIRED WHERE PROP. CONC. WALK ABUTS WITH CONCRETE DRIVE OR OTHER CONCRETE PAVEMENT OR CURB.



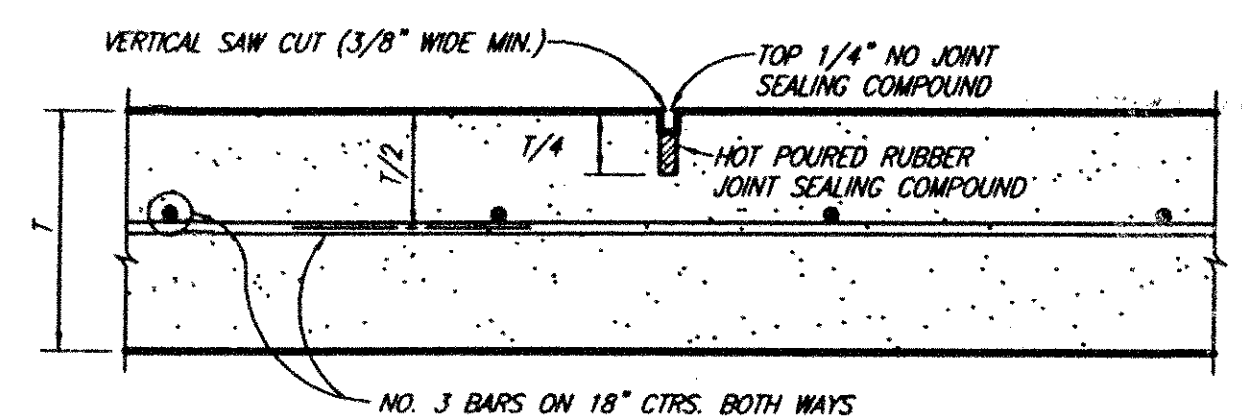
SECTION B-B

DRIVEWAY RETURN SECTIONS



SECTION CONCRETE SIDEWALK
NO SCALE

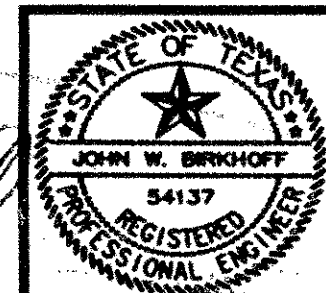
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TRANSVERSE JOINTS SPACED 15 FT. C.-C. (MAX.)
LONGITUDINAL JOINTS SPACED 20 FT. C.-C. (MAX.)

SAWED DUMMY JOINT
NO SCALE

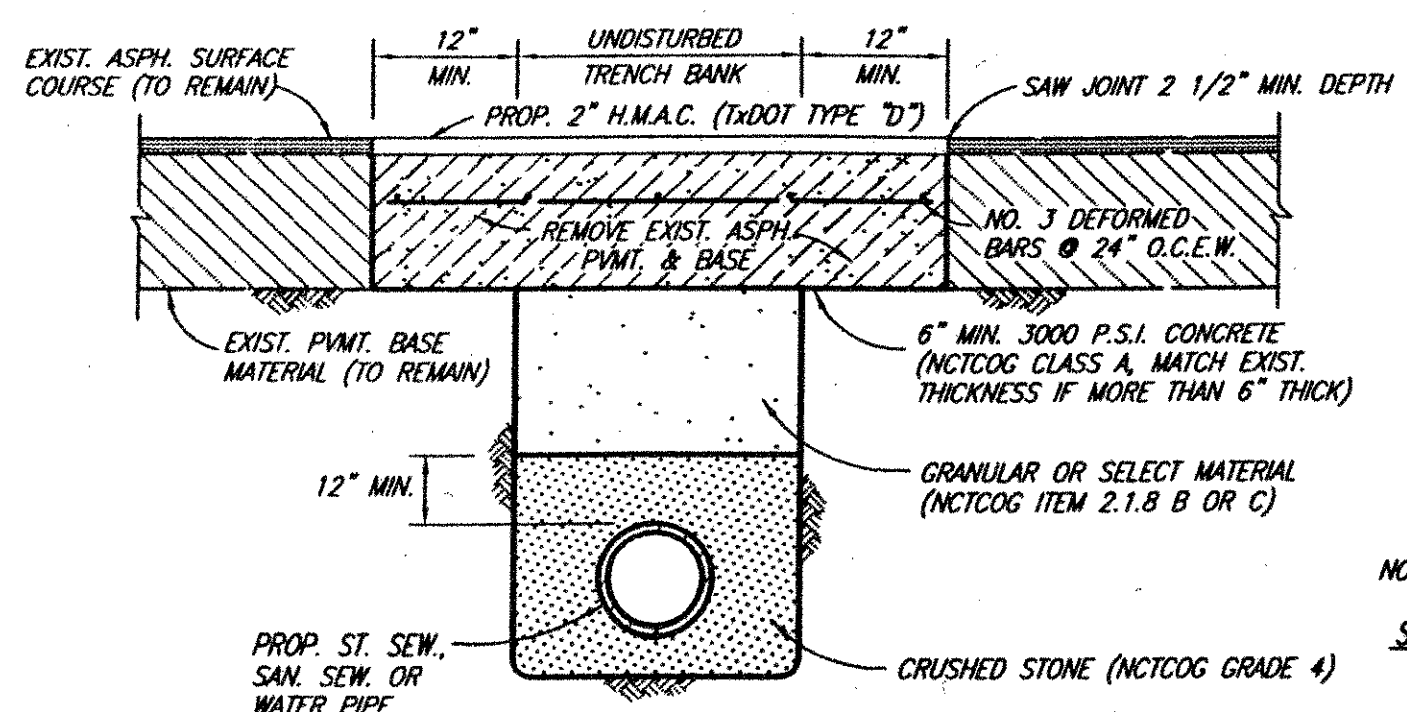
THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: 4/22/02



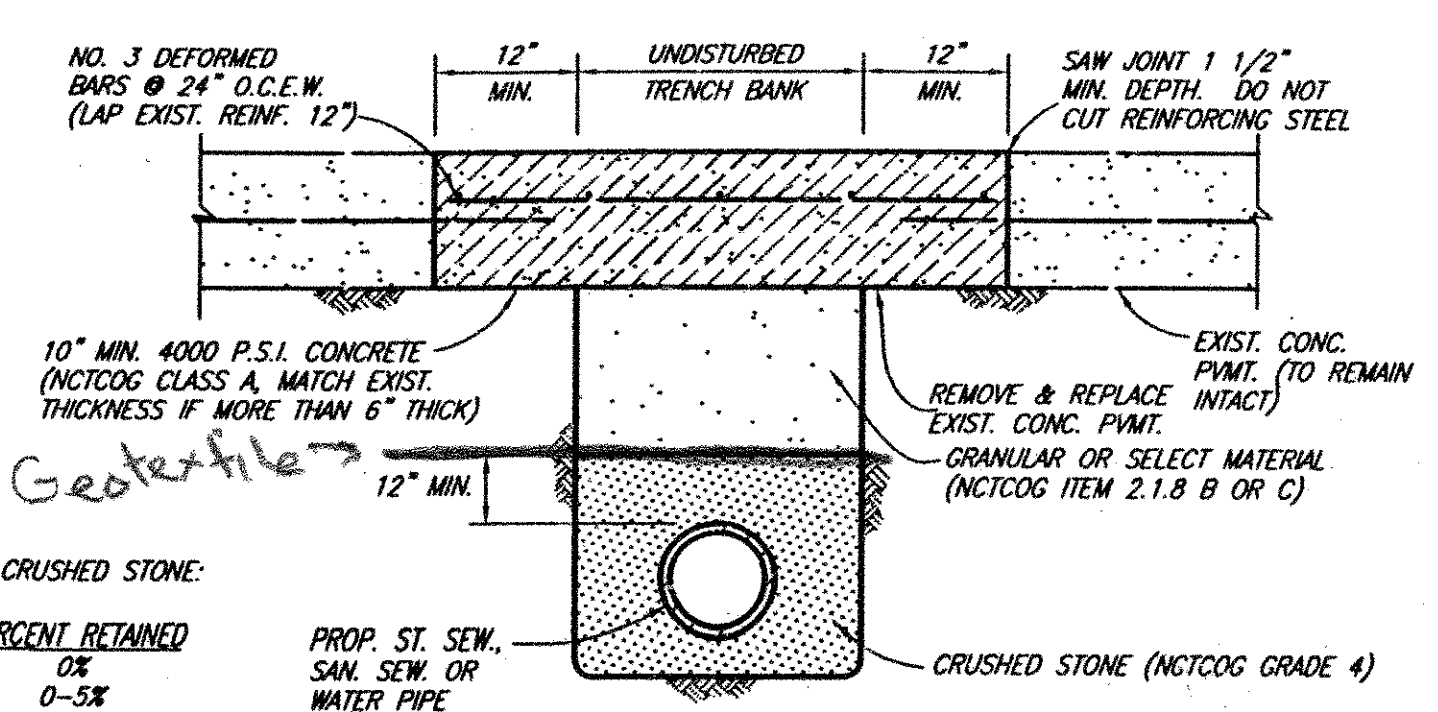
TOWN OF ADDISON, TEXAS		
MARSH LANE WATER LINE		
DETAILS		
BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 7
DRAWN BY: S.J. & F.	DATE: APRIL 2002	OF 8 SHEETS

04/17/02 R.L. 99123M07.DWG BLOCKS,ASH-REPAIR,BUTT,CONST,CURB-GUT,DRIVE,DUMM,EXP,INT,MONOCURB

BLOCKS ASPH/PMT CLASS B1 CLASS C CLASS D CLASS E CLASS F CLASS G CLASS H CLASS I CLASS J CLASS K CLASS L CLASS M CLASS N CLASS O CLASS P CLASS Q CLASS R CLASS S CLASS T CLASS U CLASS V CLASS W CLASS X CLASS Y CLASS Z CLASS AA CLASS AB CLASS AC CLASS AD CLASS AE CLASS AF CLASS AG CLASS AH CLASS AI CLASS AJ CLASS AK CLASS AL CLASS AM CLASS AN CLASS AO CLASS AP CLASS AQ CLASS AR CLASS AS CLASS AT CLASS AU CLASS AV CLASS AW CLASS AX CLASS AY CLASS AZ CLASS BA CLASS BB CLASS BC CLASS BD CLASS BE CLASS BF CLASS BG CLASS BH CLASS BI CLASS BJ CLASS BK CLASS BL CLASS BM CLASS BN CLASS BO CLASS BP CLASS BQ CLASS BR CLASS BS CLASS BT CLASS BU CLASS BV CLASS BW CLASS BX CLASS BY CLASS BZ CLASS CA CLASS CB CLASS CC CLASS CD CLASS CE CLASS CF CLASS CG CLASS CH CLASS CI CLASS CJ CLASS CK CLASS CL CLASS CM CLASS CN CLASS CO CLASS CP CLASS CQ CLASS CR CLASS CS CLASS CT CLASS CU CLASS CV CLASS CW CLASS CX CLASS CY CLASS CZ CLASS DA CLASS DB CLASS DC CLASS DD CLASS DE CLASS DF CLASS DG CLASS DH CLASS DI CLASS DJ CLASS DK CLASS DL CLASS DM CLASS DN CLASS DO CLASS DP CLASS DQ CLASS DR CLASS DS CLASS DT CLASS DU CLASS DV CLASS DW CLASS DX CLASS DY CLASS EZ CLASS FA CLASS FB CLASS FC CLASS FD CLASS FE CLASS FF CLASS FG CLASS FH CLASS FI CLASS FJ CLASS FK CLASS FL CLASS FM CLASS FN CLASS FO CLASS FP CLASS FQ CLASS FR CLASS FS CLASS FT CLASS FU CLASS FV CLASS FW CLASS FX CLASS FY CLASS FZ CLASS GA CLASS GB CLASS GC CLASS GD CLASS GE CLASS GF CLASS GG CLASS GH CLASS GI CLASS GJ CLASS GK CLASS GL CLASS GM CLASS GN CLASS GO CLASS GP CLASS GQ CLASS GR CLASS GS CLASS GT CLASS GU CLASS GV CLASS GW CLASS GX CLASS GY CLASS GZ CLASS HA CLASS HB CLASS HC CLASS HD CLASS HE CLASS HF CLASS HG CLASS HH CLASS HI CLASS HJ CLASS HK CLASS HL CLASS HM CLASS HN CLASS HO CLASS HP CLASS HQ CLASS HR CLASS HS CLASS HT CLASS HU CLASS HV CLASS HW CLASS HX CLASS HY CLASS HZ CLASS IA CLASS IB CLASS IC CLASS ID CLASS IE CLASS IF CLASS IG CLASS IH CLASS II CLASS IJ CLASS IK CLASS IL CLASS IM CLASS IN CLASS IO CLASS IP CLASS IQ CLASS IR CLASS IS CLASS IT CLASS IU CLASS IV CLASS IW CLASS IX CLASS IY CLASS IZ CLASS JA CLASS JB CLASS JC CLASS JD CLASS JE CLASS JF CLASS JG CLASS JH CLASS JI CLASS JJ CLASS JK CLASS JL CLASS JM CLASS JN CLASS JO CLASS JP CLASS JQ CLASS JR CLASS JS CLASS JT CLASS JU CLASS JV CLASS JW CLASS JX CLASS JY CLASS JZ CLASS KA CLASS KB CLASS KC CLASS KD CLASS KE CLASS KF CLASS KG CLASS KH CLASS KI CLASS KJ CLASS KK CLASS KL CLASS KM CLASS KN CLASS KO CLASS KP CLASS KQ CLASS KR CLASS KS CLASS KT CLASS KU CLASS KV CLASS KW CLASS KX CLASS KY CLASS KZ CLASS LA CLASS LB CLASS LC CLASS LD CLASS LE CLASS LF CLASS LG CLASS LH CLASS LI CLASS LJ CLASS LK CLASS LL CLASS LM CLASS LN CLASS LO CLASS LP CLASS LQ CLASS LR CLASS LS CLASS LT CLASS LU CLASS LV CLASS LW CLASS LX CLASS LY CLASS LZ CLASS MA CLASS MB CLASS MC CLASS MD CLASS ME CLASS MF CLASS MG CLASS MH CLASS MI CLASS MJ CLASS MK CLASS ML CLASS MM CLASS MN CLASS MO CLASS MP CLASS MQ CLASS MR CLASS MS CLASS MT CLASS MU CLASS MV CLASS MW CLASS MX CLASS MY CLASS MZ CLASS NA CLASS NB CLASS NC CLASS ND CLASS NE CLASS NF CLASS NG CLASS NH CLASS NI CLASS NJ CLASS NK CLASS NL CLASS NM CLASS NO CLASS NP CLASS NQ CLASS NR CLASS NS CLASS NT CLASS NU CLASS NV CLASS NW CLASS NX CLASS NY CLASS NZ CLASS OA CLASS OB CLASS OC CLASS OD CLASS OE CLASS OF CLASS OG CLASS OH CLASS OI CLASS OJ CLASS OK CLASS OL CLASS OM CLASS ON CLASS OO CLASS OP CLASS OQ CLASS OR CLASS OS CLASS OT CLASS OU CLASS OV CLASS OW CLASS OX CLASS OY CLASS OZ CLASS PA CLASS PB CLASS PC CLASS PD CLASS PE CLASS PF CLASS PG CLASS PH CLASS PI CLASS PJ CLASS PK CLASS PL CLASS PM CLASS PN CLASS PO CLASS PP CLASS PQ CLASS PR CLASS PS CLASS PT CLASS PU CLASS PV CLASS PW CLASS PX CLASS PY CLASS PZ CLASS QA CLASS QB CLASS QC CLASS QD CLASS QE CLASS QF CLASS QG CLASS QH CLASS QI CLASS QJ CLASS QK CLASS QL CLASS QM CLASS QN CLASS QO CLASS QP CLASS QQ CLASS QR CLASS QS CLASS QT CLASS QU CLASS QV CLASS QW CLASS QX CLASS QY CLASS QZ CLASS RA CLASS RB CLASS RC CLASS RD CLASS RE CLASS RF CLASS RG CLASS RH CLASS RI CLASS RJ CLASS RK CLASS RL CLASS RM CLASS RN CLASS RO CLASS RP CLASS RQ CLASS RR CLASS RS CLASS RT CLASS RU CLASS RV CLASS RW CLASS RX CLASS RY CLASS RZ CLASS SA CLASS SB CLASS SC CLASS SD CLASS SE CLASS SF CLASS SG CLASS SH CLASS SI CLASS SJ CLASS SK CLASS SL CLASS SM CLASS SN CLASS SO CLASS SP CLASS SQ CLASS SR CLASS SS CLASS ST CLASS SU CLASS SV CLASS SW CLASS SX CLASS SY CLASS SZ CLASS TA CLASS TB CLASS TC CLASS TD CLASS TE CLASS TF CLASS TG CLASS TH CLASS TI CLASS TJ CLASS TK CLASS TL CLASS TM CLASS TN CLASS TO CLASS TP CLASS TQ CLASS TR CLASS TS CLASS TT CLASS TU CLASS TV CLASS TW CLASS TX CLASS TY CLASS TZ CLASS UA CLASS UB CLASS UC CLASS UD CLASS UE CLASS UF CLASS UG CLASS UH CLASS UI CLASS UJ CLASS UK CLASS UL CLASS UM CLASS UN CLASS UO CLASS UP CLASS UQ CLASS UR CLASS US CLASS UT CLASS UY CLASS UZ CLASS VA CLASS VB CLASS VC CLASS VD CLASS VE CLASS VF CLASS VG CLASS VH CLASS VI CLASS VJ CLASS VK CLASS VL CLASS VM CLASS VN CLASS VO CLASS VP CLASS VQ CLASS VR CLASS VS CLASS VT CLASS VU CLASS VV CLASS VW CLASS VX CLASS VY CLASS VZ CLASS WA CLASS WB CLASS WC CLASS WD CLASS WE CLASS WF CLASS WG CLASS WH CLASS WI CLASS WJ CLASS WK CLASS WL CLASS WM CLASS WN CLASS WO CLASS WP CLASS WQ CLASS WR CLASS WS CLASS WT CLASS WU CLASS WV CLASS WW CLASS WX CLASS WY CLASS WZ CLASS XA CLASS XB CLASS XC CLASS XD CLASS XE CLASS XF CLASS XG CLASS XH CLASS XI CLASS XJ CLASS XK CLASS XL CLASS XM CLASS XN CLASS XO CLASS XP CLASS XQ CLASS XR CLASS XS CLASS XT CLASS XU CLASS XV CLASS XW CLASS XX CLASS XY CLASS XZ CLASS YA CLASS YB CLASS YC CLASS YD CLASS YE CLASS YF CLASS YG CLASS YH CLASS YI CLASS YJ CLASS YK CLASS YL CLASS YM CLASS YN CLASS YO CLASS YP CLASS YQ CLASS YR CLASS YS CLASS YT CLASS YU CLASS YV CLASS YW CLASS YX CLASS YY CLASS YZ CLASS ZA CLASS ZB CLASS ZC CLASS ZD CLASS ZE CLASS ZF CLASS ZG CLASS ZH CLASS ZI CLASS ZJ CLASS ZK CLASS ZL CLASS ZM CLASS ZN CLASS ZO CLASS ZP CLASS ZQ CLASS ZR CLASS ZS CLASS ZT CLASS ZU CLASS ZV CLASS ZW CLASS ZX CLASS ZY CLASS ZZ



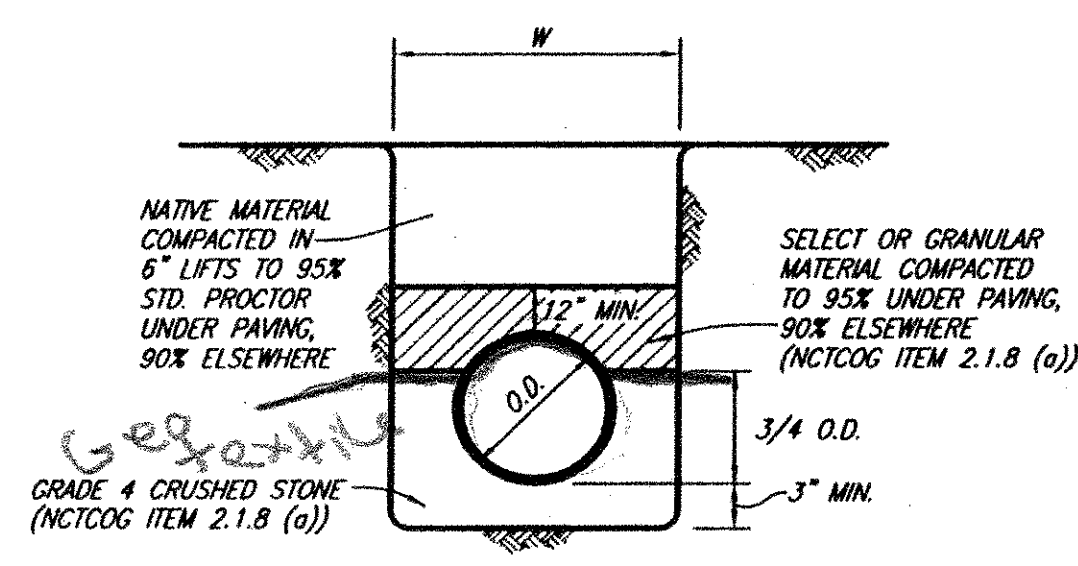
ASPHALT PAVEMENT REPAIR
NO SCALE



CONCRETE PAVEMENT REPAIR
NO SCALE

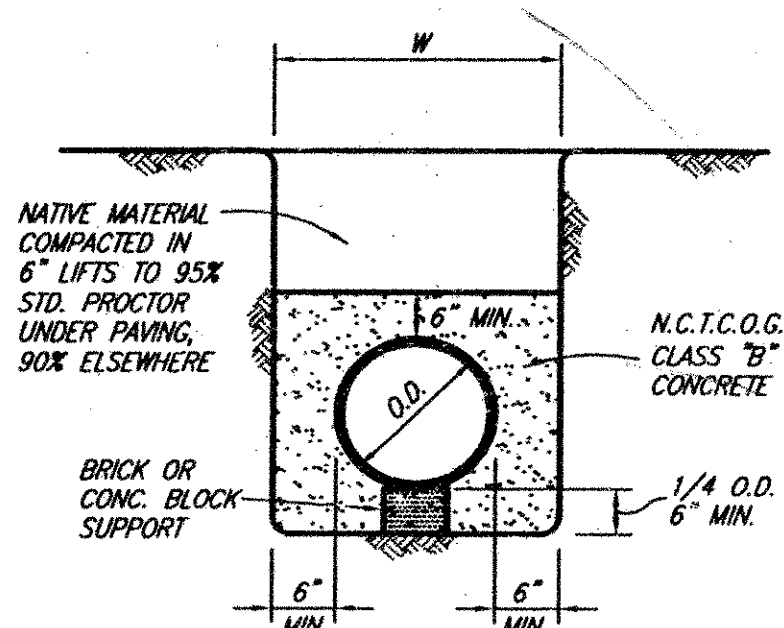
NCTCOG GRADE 4 CRUSHED STONE:

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



CLASS B-3 EMBEDMENT
C909 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.
 - COST OF EMBEDMENT (FURNISHED AND INSTALLED) SHALL BE INCLUDED IN THE COST OF THE INSTALLED PIPE.

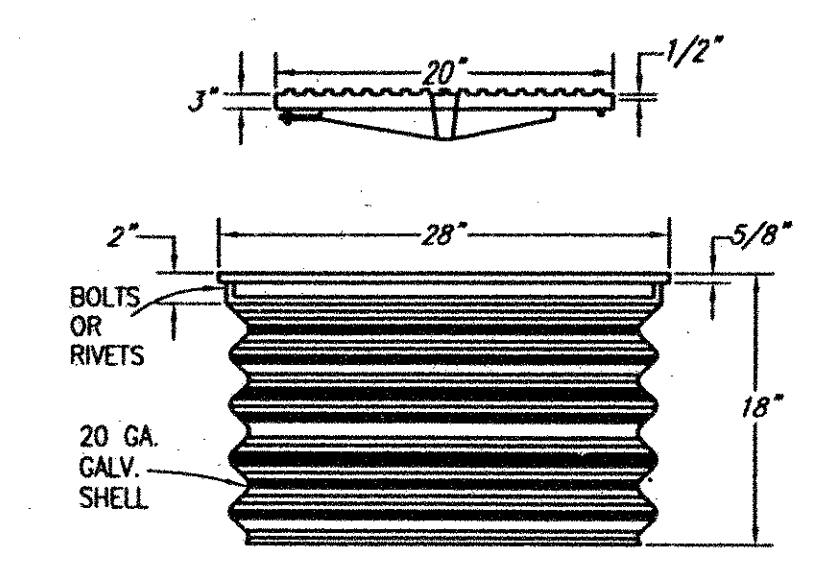
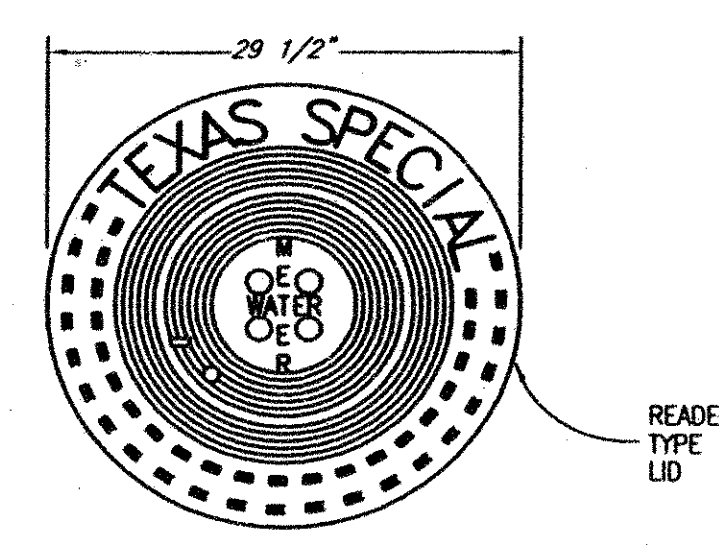
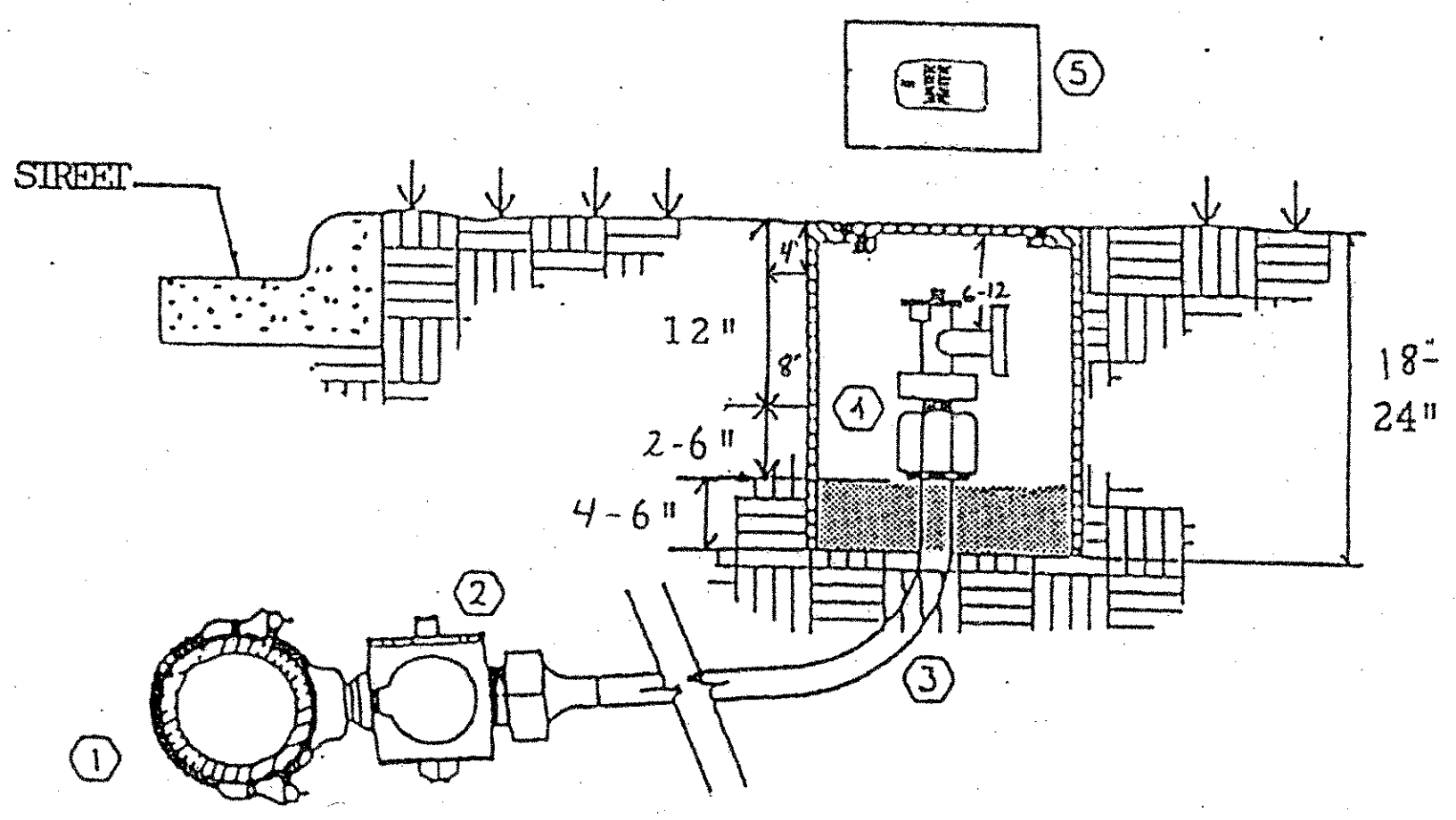


CLASS G EMBEDMENT
CONCRETE ENCASEMENT

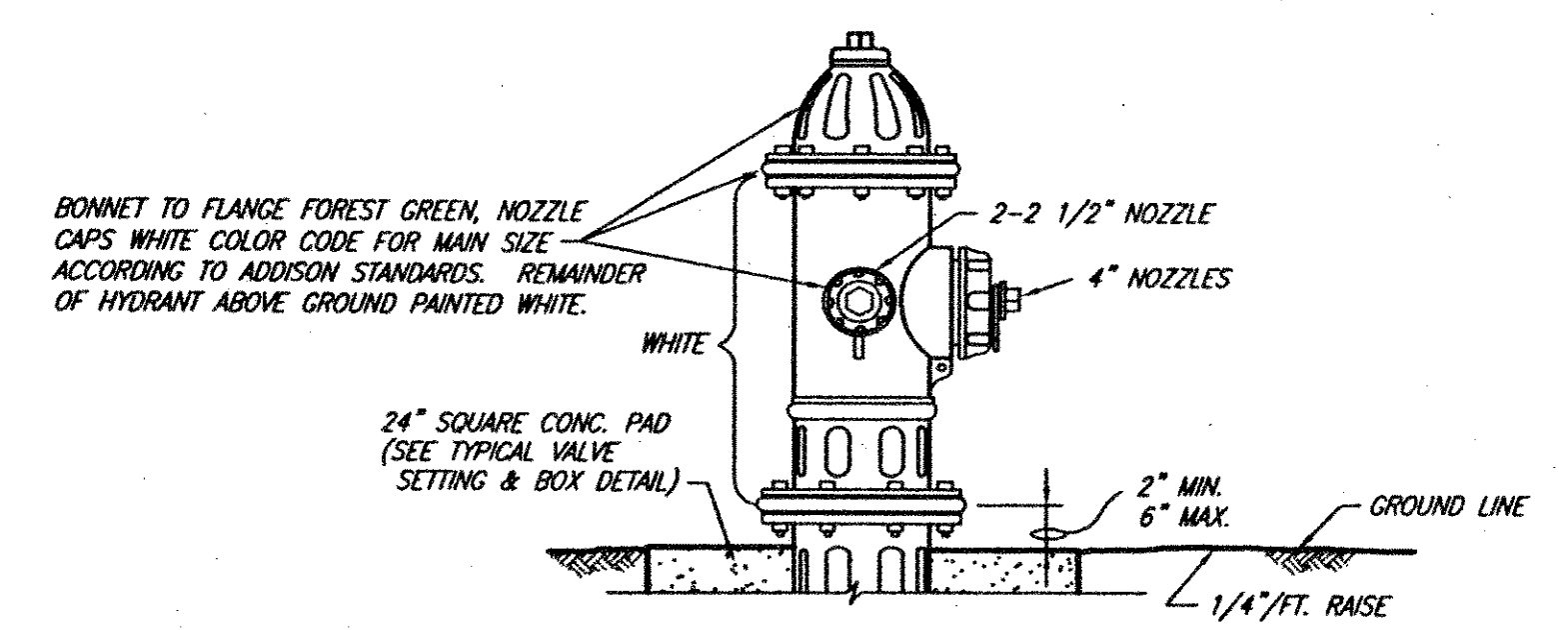
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1"	0-5%
1/2"	40-75%
NO. 4	90-100%
NO. 8	95-100%

**TOWN OF ADDISON
COMMERCIAL WATER SERVICE**

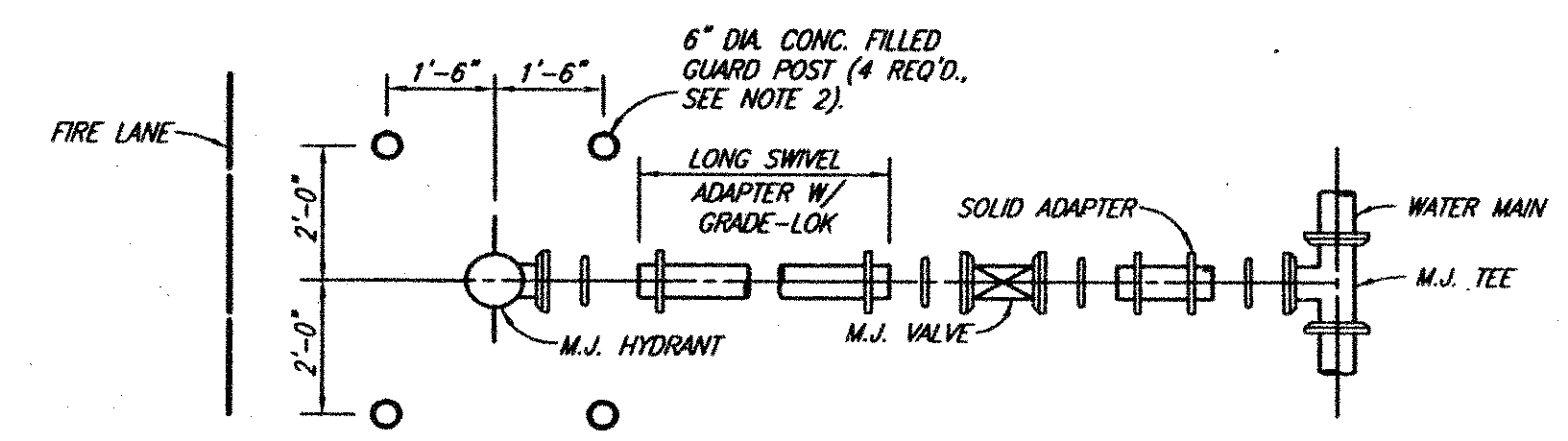


**METER BOX RING & COVER
METER BOX DETAILS**
NO SCALE

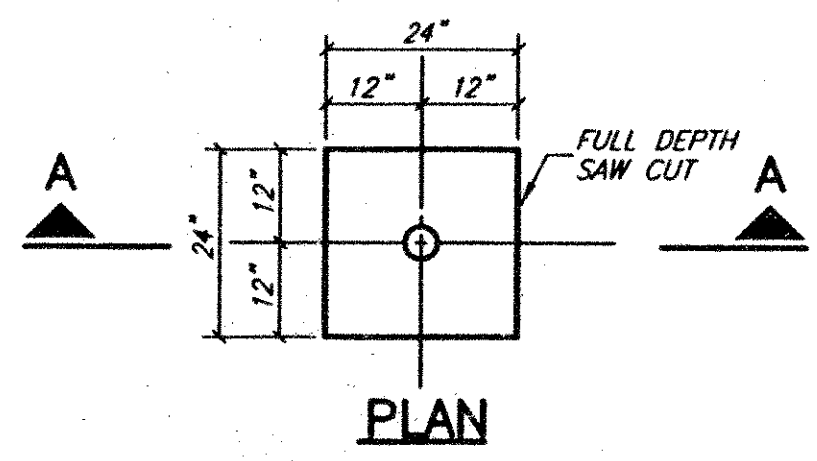


- FIRE HYDRANT NOTES:**
- IN GENERAL ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARDS SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED BY THE TOWN OF ADDISON.
 - ACCEPTABLE FIRE HYDRANTS IN ADDISON ARE MUELLER, CLOW, AND WATEROUS.
 - FIRE HYDRANT PAINT
VITRA-GARD
RUST NO MORE
HEAVY DUTY GLOSS

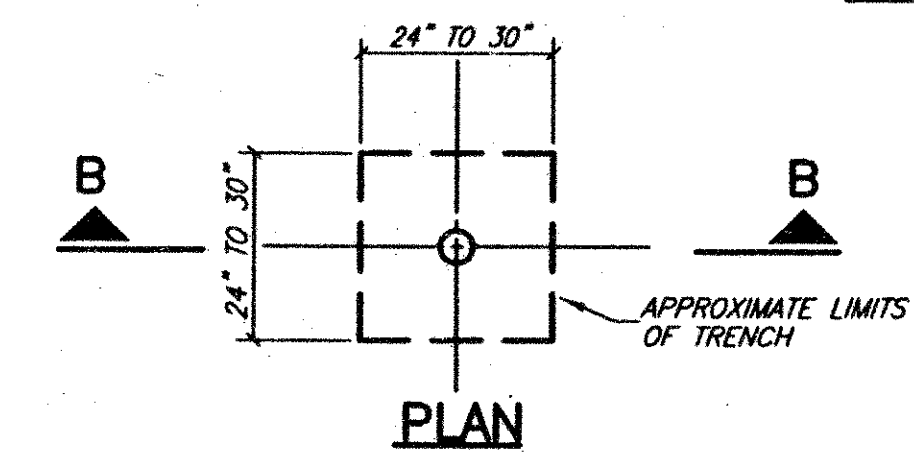
FOREST GREEN J844-6 ----- ENAMEL
SATIN WHITE ----- POLY URETHANE



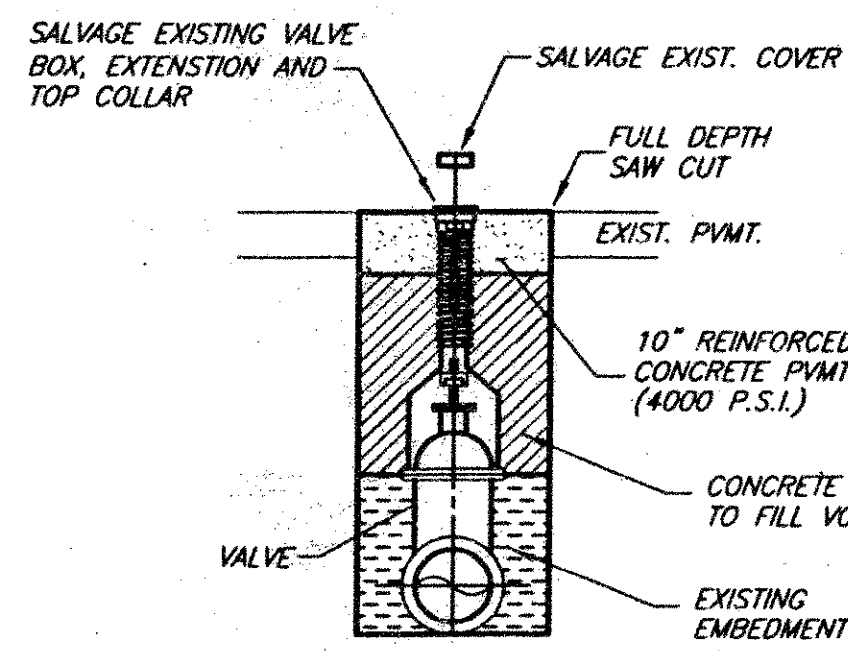
TYPICAL FIRE HYDRANT INSTALLATION
NO SCALE



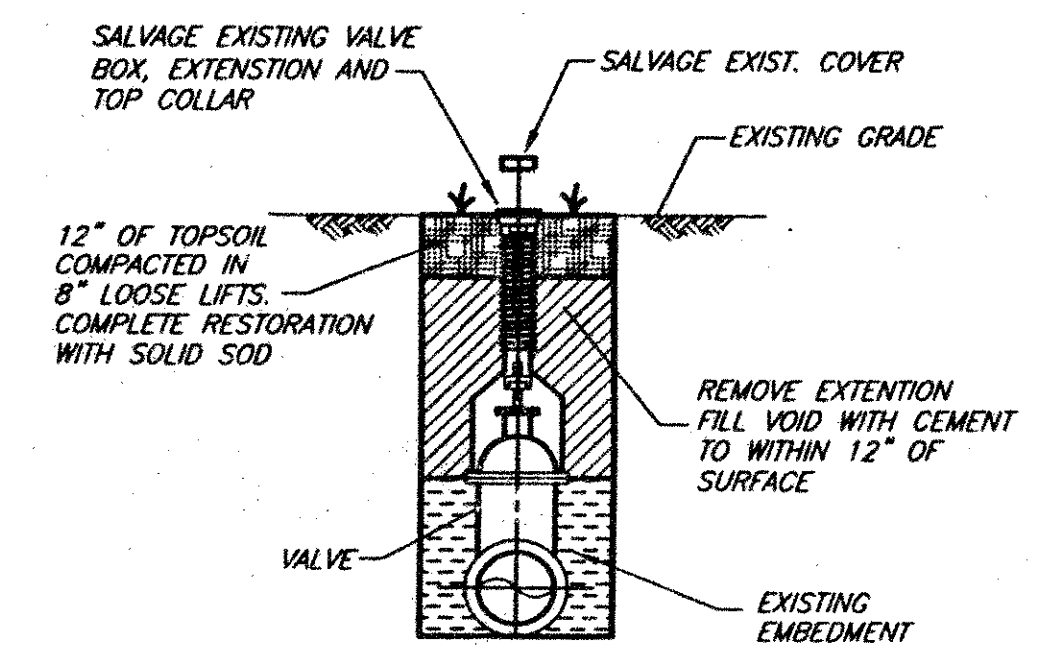
PLAN



PLAN



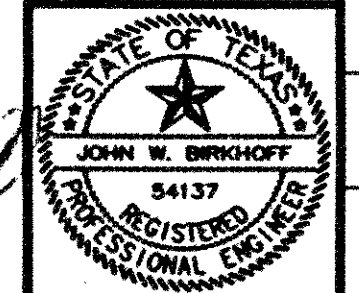
**SECTION A-A
(IN PAVEMENT)**



**SECTION B-B
(IN GRASS)**

ABANDON VALVE DETAIL
NO SCALE

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
DATE: 4/22/02



TOWN OF ADDISON, TEXAS		
MARSH LANE WATER LINE		
DETAILS		
BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS Dallas, Texas		
DESIGNED BY: J.W.B.	PROJECT: 1999 123	SHEET NO. 8
DRAWN BY: S.J. & F.	DATE: APRIL 2002	OF 8 SHEETS