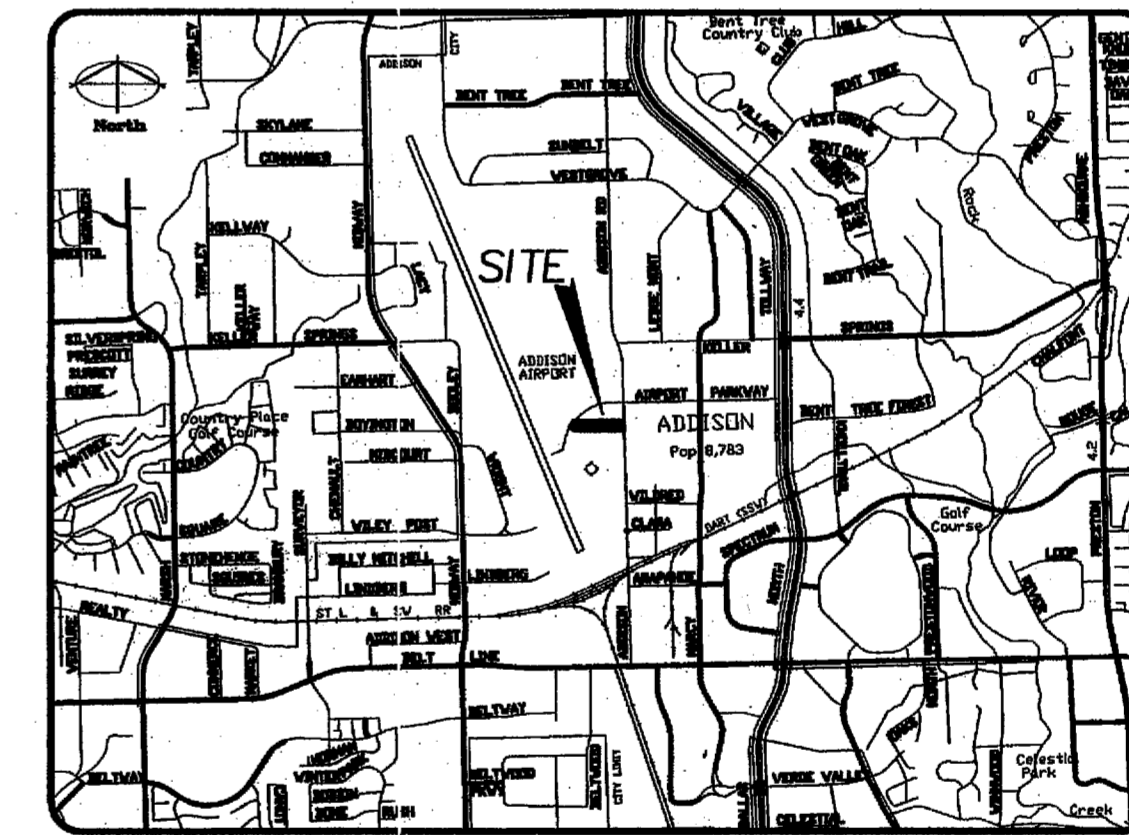


CONSTRUCTION PLANS FOR ADDISON AIRPORT WATER MAIN EXTENSION

AN ADDITION TO
THE TOWN OF ADDISON, TEXAS

DEVELOPER

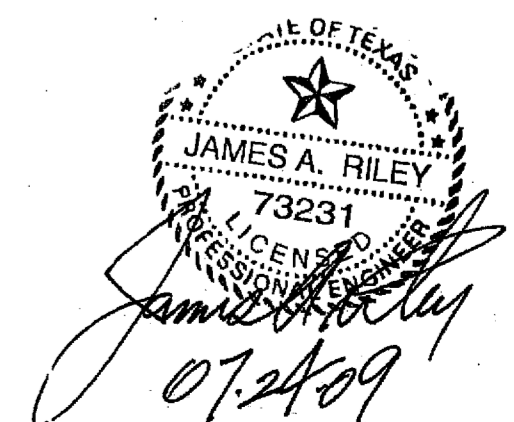
Town of Addison
16801 Westgrove Drive
Addison, Texas 75001
(972) 450-2857
(972) 450-2837 fax
Contact: Clay Barnett, P.E.

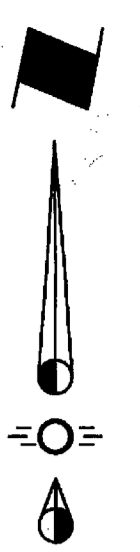
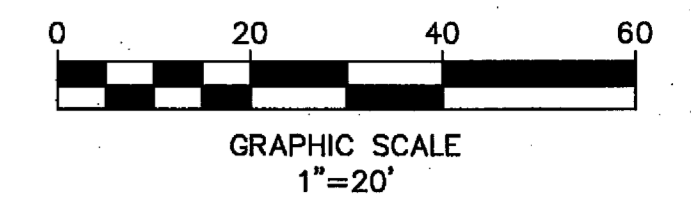


ADDISON
LOCATION MAP
N.T.S.

Civil Engineer/Surveyor

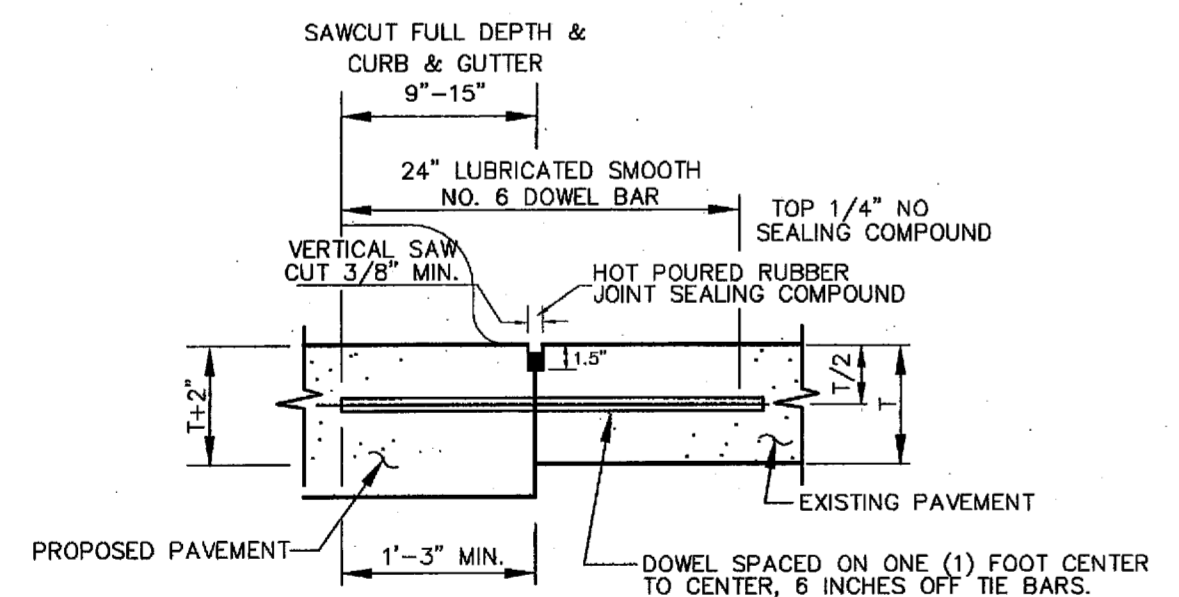
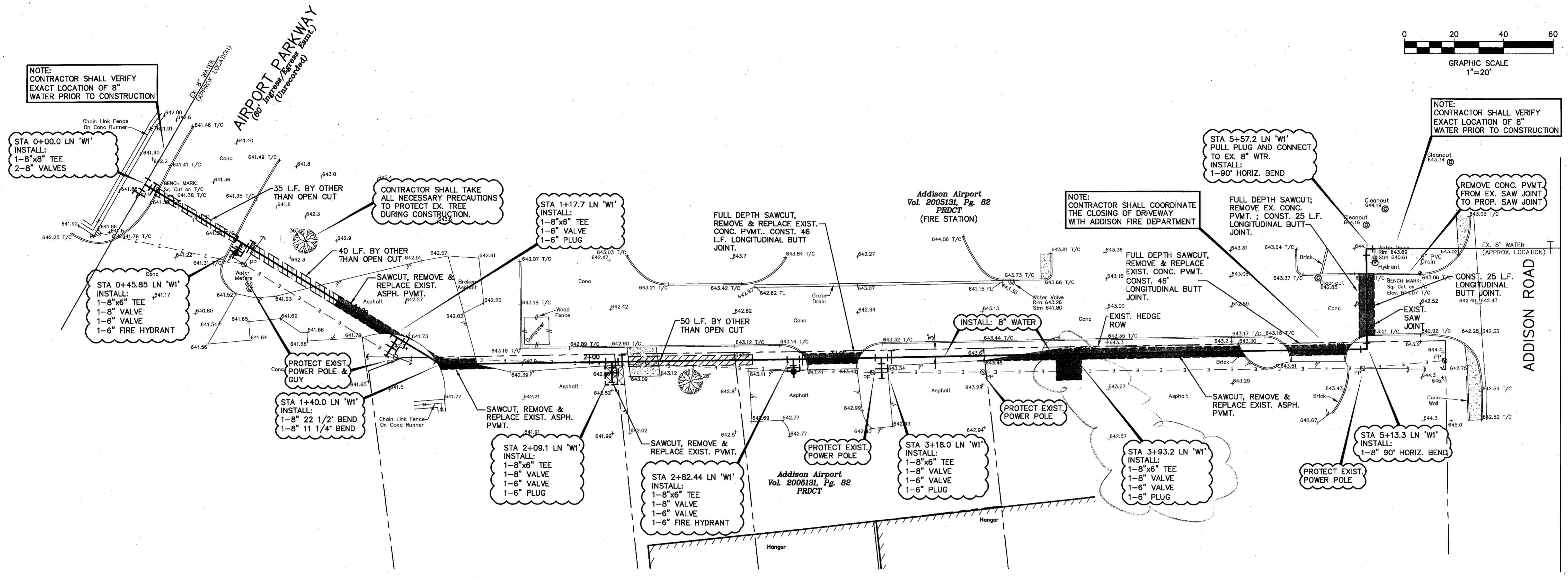
Brockette • Davis • Drake
4144 N. Central Expressway,
Suite 1100
Dallas, Tx. 75204
(214) 824-3647
(214) 824-7064 fax
Contact: Jim Riley, P.E.





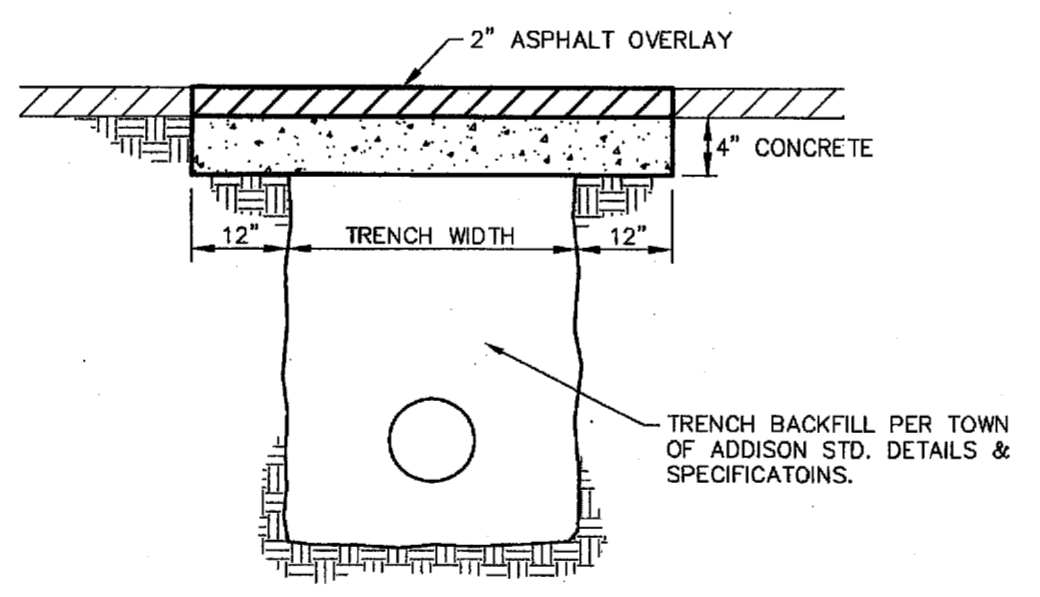
NOTE:
CONTRACTOR SHALL VERIFY
EXACT LOCATION OF 8"
WATER PRIOR TO CONSTRUCTION

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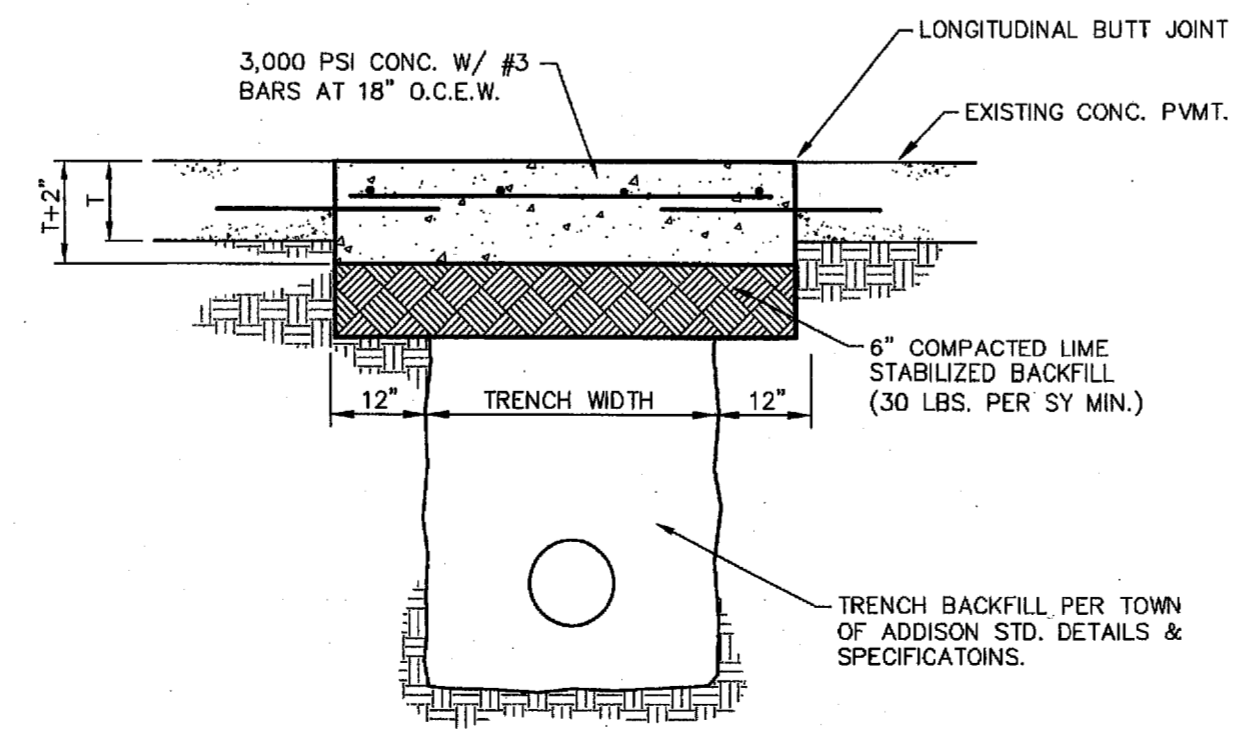


LONGITUDINAL BUTT JOINT
NTS

- NOTES:
1. NO. 5 SMOOTH DOWEL BAR MAY BE USED IN 5 INCH AND 6 INCH PAVEMENT THICKNESS.
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTOR'S OPTION.
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
4. DRILLED BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE.



PAVEMENT REPAIR (ASPHALT)
NTS



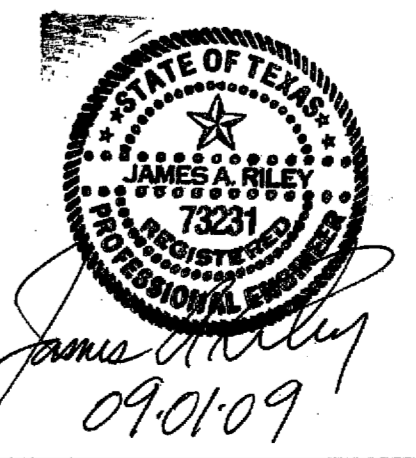
PAVEMENT REPAIR (CONCRETE)
NTS

GENERAL NOTES

1. THE LOCATION OF ALL UNDERGROUND UTILITIES ARE OBTAINED FROM PUBLIC RECORDS. IF UNCHARTED UTILITIES ARE FOUND CONTACT THE ENGINEER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES, INCLUDING IRRIGATION, SITE ELECTRICAL, SITE COMMUNICATIONS, ETC. IF UNDERGROUND UTILITIES ARE DAMAGED WITH THIS CONSTRUCTION, THE CONTRACTOR SHALL MAKE REPAIRS AT THEIR EXPENSE.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON STANDARD SPECIFICATIONS AND DETAILS.
3. WATER MAINS SHALL BE PLACED A MINIMUM OF 48" BELOW EXISTING/PROPOSED GRADE.
4. ANY LANDSCAPING DISTURBED BY THIS CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIAL.
5. CONTRACTOR SHALL PROTECT EXISTING TREES. CARE SHALL BE TAKEN TO NOT DAMAGE LIMBS THAT OVERHANG THE TRENCH.
6. CONCRETE BLOCKING SHALL BE INSTALLED AT ALL BENDS AND PLUGS.

APPROVED FOR CONSTRUCTION
Town of Addison
Public Works Department
APPROVED BY: *[Signature]*
DATE: 9/2/09

All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the Town of Addison makes no representation of adequacy of the work of the Design Engineer.



LEGEND

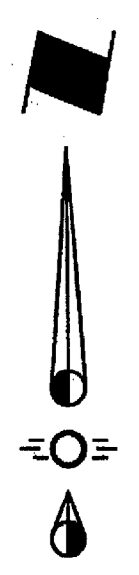
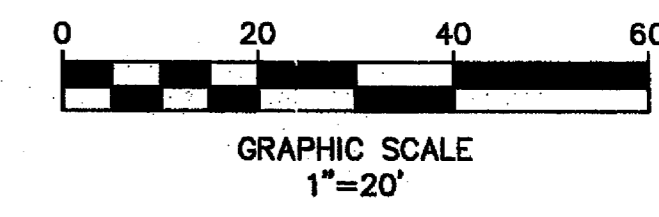
- ASPHALT PAVEMENT
- POWER POLE
- FIRE HYDRANT
- EXISTING TREE
- FULL DEPTH, PAVEMENT SAW CUT
- REMOVE & REPLACE PAVEMENT

No.	REVISION	DATE

WATER PLAN						
AIRPORT WATER MAIN EXTENSION						
TOWN OF ADDISON						
DALLAS COUNTY, TEXAS						
BROCKETTE • DAVIS • DRAKE, INC.						
Civil & Structural Engineering • Surveying						
4144 North Central Expressway, Suite 1100 • Dallas, Texas 75204						
(214) 824-3647 • fax (214) 824-7064						
DESIGNED	DRAWN	DATE	SCALE	NOTES	FILE	NO.
JAR	BDD	9/01/09	1"=20'	BDD	C09042	C2

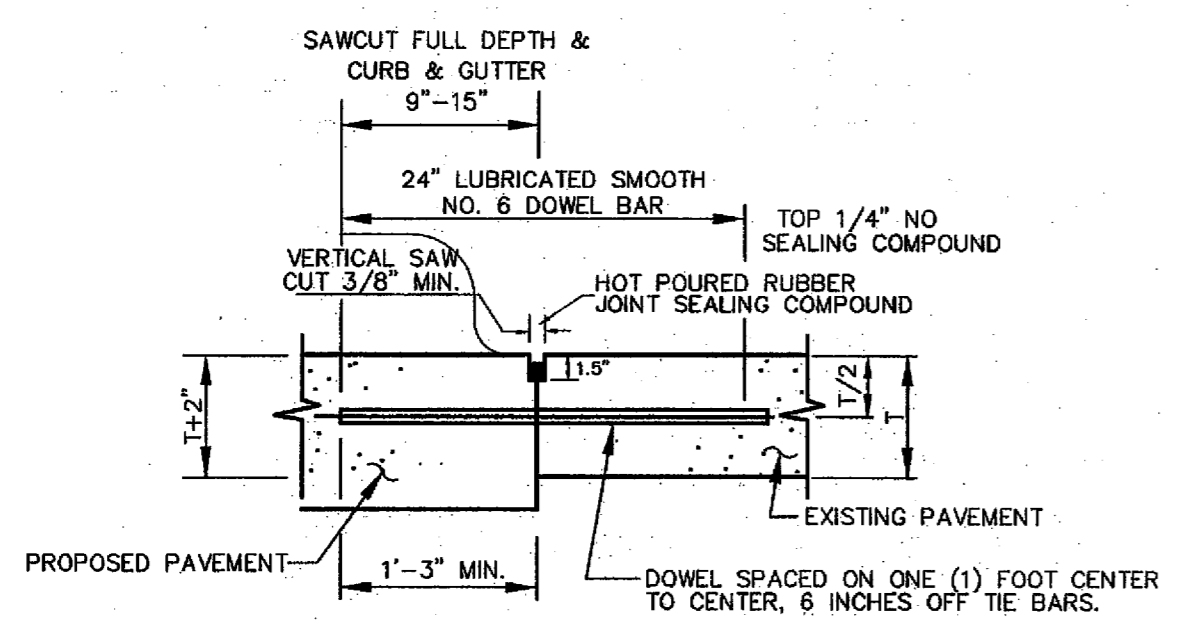
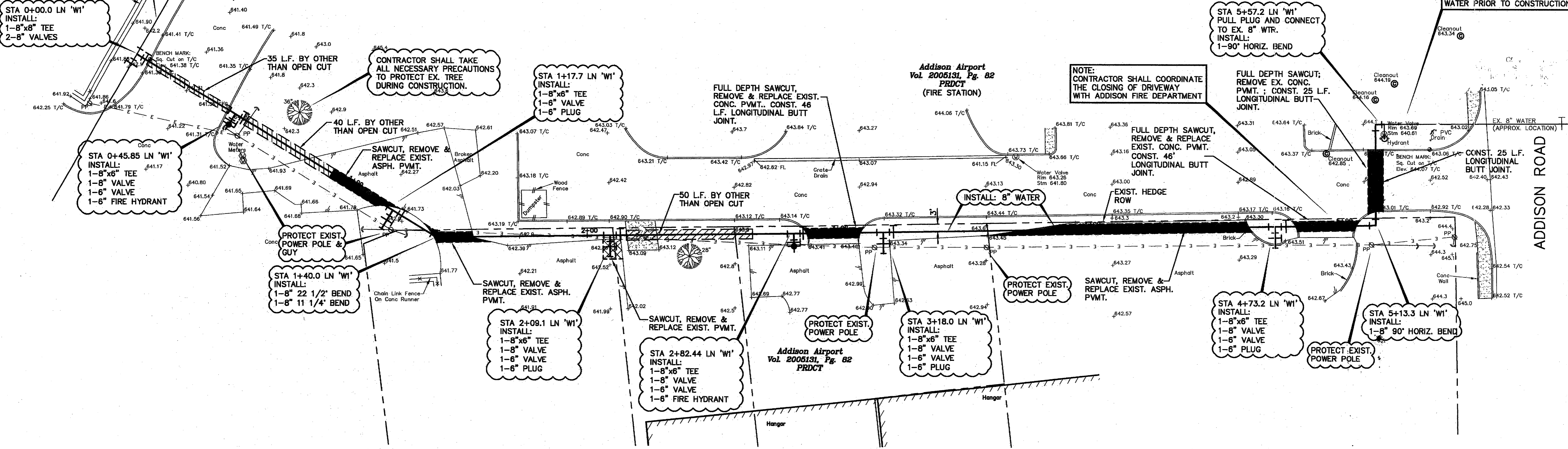
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 Any modification or use of this drawing without the express
 written authorization of Brockette/Davis/Drake, Inc. is prohibited.

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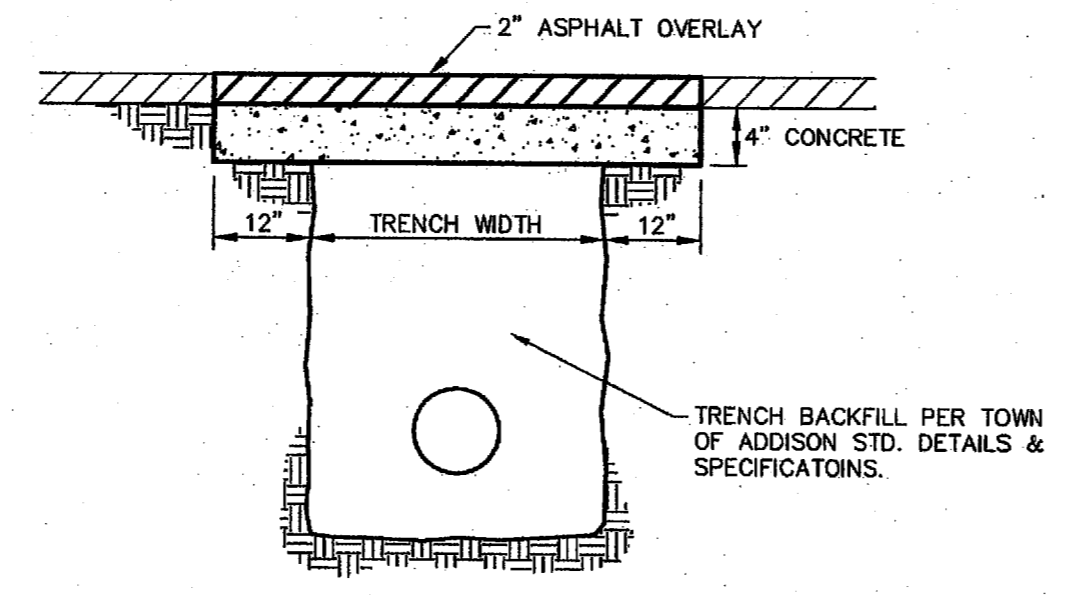
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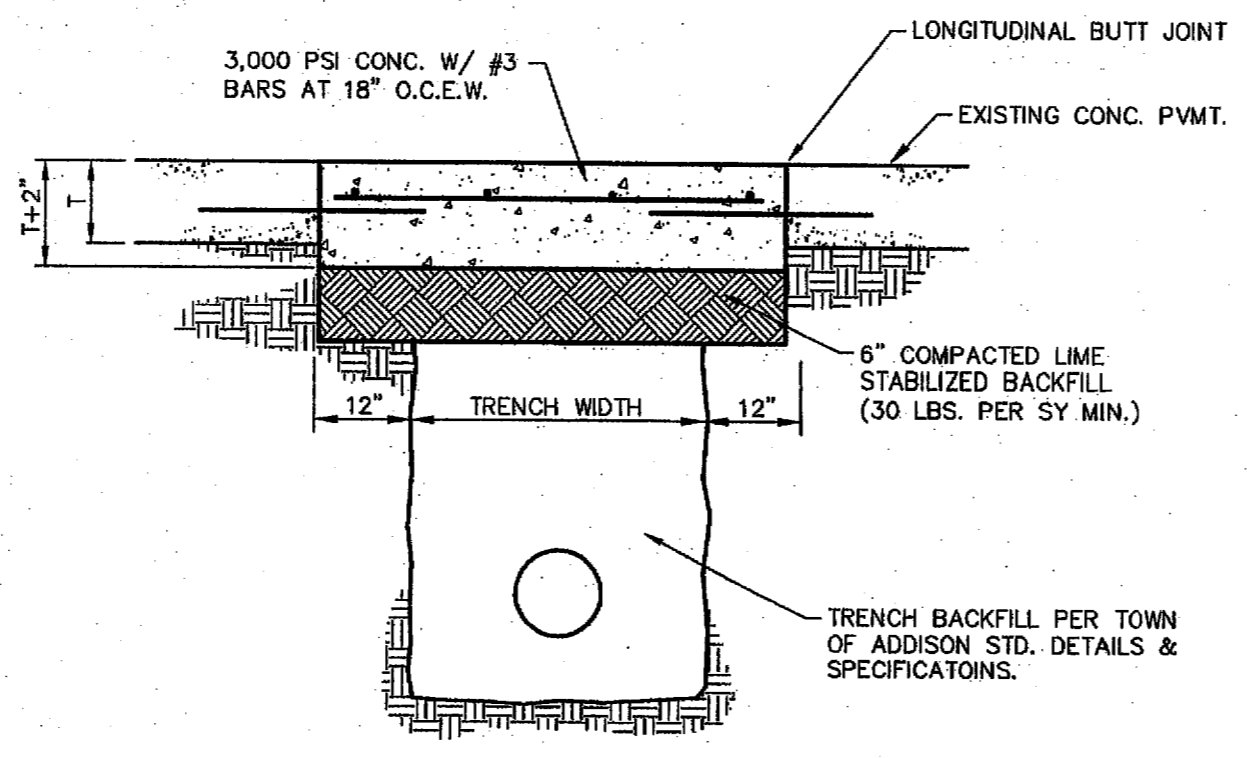


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PAVEMENT REPAIR (ASPHALT)
NTS



PAVEMENT REPAIR (CONCRETE)
NTS

LEGEND

- ASPHALT PAVEMENT
- POWER POLE
- FIRE HYDRANT
- EXISTING TREE
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No.	REVISION	DATE

WATER PLAN
AIRPORT WATER MAIN EXTENSION
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

BROCKETTE • DAVIS • DRAKE, INC.
DD consulting engineers
Civil & Structural Engineering • Surveying
4144 North Central Expressway, Suite 1100 • Dallas, Texas 75204
(214) 824-3647 • fax (214) 824-7064

DESIGNED	DRAWN	DATE	SCALE	NOTES	FILE	NO.
JAR	BDD	7/24/09	1"=20'	BDD	C09042	C2

STATE OF TEXAS
JAMES A. RILEY
73231
Professional Engineer
07.24.09

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GENERAL CONSTRUCTION NOTES

- A. Prior to commencing construction, three sets of Approved Construction Plans (Civil Set) shall be provided to the Town of Addison Public Works Department...

Table listing utility companies and their contact information: The Town of Addison, Onco Gas and Electric, SBC (Southwestern Bell), TC/Charter Cable, Comcast (AT&T), MCI WorldCom, Brooks Cable, Explorer Pipeline.

- D. The contractor shall provide submittals to the Town of Addison, for approval of all materials to be added to the Public Infrastructure, prior to incorporating materials into the job.

PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON, THE FOLLOWING ITEMS SHALL BE COMPLETED:

- 1. The contractor, at his expense, shall repair any existing pavement, curb, irrigation system, landscaping, and/or sidewalks damaged or removed due to construction activity.

All new meters installed in the town of Addison shall be equipped with electronic encoder registers, programmed to read in thousand gallon increments, equipped with touch-pad readers.

Table of connection fees: 0.75" = \$ 50.00, 1" = \$100.00, 1.5" = \$150.00, 2" = \$400.00, 3" = \$800.00, 4" = \$600.00, 6" = \$800.00, 8" = \$1,000.00, 10" = \$1,200.00.

Domestic (potable) Use:

- 1. All commercial unit applications for domestic use having flow demands greater than 160 g.p.m. shall employ either a compound type meter, or a single-jet meter, >2", and conforming to Town of Addison Specifications...

Lawn Irrigation:

- 1. All irrigation services > 1.5" shall employ a Class 1 turbine, or single-jet type meter conforming to the above guidelines.

Fire Service:

- 1. Less than or equal to 2" meters shall be a turbine, or single-jet meter as described above.

Backflow Prevention Assemblies:

- 1. All water services (except fire services >2", see above) shall have the appropriate BPA installed immediately after the meter...

- 4. The plumber, contractor, and/or owner is responsible for having the BPA tested upon installation and initiation of service by a Tester certified according to TCEQ Rules for the specific type of installation (i.e. Fireline, General)...

WATER SERVICE SIZES 3/4" - 2"

Contractors and/or plumbers are responsible for compliance with the following specifications:

- A. Meters shall be set within the utility easement and clear of vehicular traffic flow and/or parking spaces.

3/4" - 2" WATER SERVICE APPROVED MATERIALS AND PROCEDURES

- 1. Double-strap bronze tapping saddle with CC. (AWWA taper) threads: Mueller #RB2B, Ford #202B, or McDonald #3B25. Tap shall be set at 45° of vertical on the mainline.

WATER SERVICE SIZES >2"

Contractors, plumbers, and/or developers are responsible for compliance with the following specifications:

- A. Provide and install mechanical joint tapping sleeve (such as Mueller H-615). Submittal and approval required if other.

TOWN OF ADDISON SPECIFICATION #FH-95-1 FIRE HYDRANTS

All fire hydrants installed for use in the Town of Addison shall meet or exceed AWWA Standard C 502-85 or the latest revision thereof. Rated working pressure shall be at least 150psi, test pressure shall be 300psi, and hydrant shall be capable of flowing 1000gpm (Class A).

- 1. General Design A. 3-way style consisting of 2 opposing hose nozzles separated by 1 pumper nozzle, dry barrel type.

TOWN OF ADDISON SPECIFICATION #GV-95.1 RESILIENT SEATED GATE VALVES

All gate valves installed in the Town of Addison shall be of the resilient wedge type conforming to AWWA C509, Standard for Resilient Seated Gate Valves, in its most current revision.

- 1. Wedge shall be cast or ductile iron, full encapsulated in synthetic rubber.

WATER AND SEWER SPECIFICATIONS

Water Mainline Piping

All mainline, fire line, and hydrant lead piping from 6-12 inches in diameter shall be AWWA C900-88 Molecularly Oriented PVC Pressure pipe (Class 150 min., Class 200 for fire lines) with Cast Iron O.D., or, when pipe penetrates meter vault walls it shall be Ductile Iron.

Embedment

Embedment shall comply with NCTCOG Class "B1" embedment of crushed stone to the spring line of the pipe, with sand (12" min.) over the pipe. A layer of geo-textile fabric shall be placed on top of the stone prior to the placement of sand.

Tracer

Tracer wire shall be placed on pipe prior to embedment. Wire shall be #12 plastic coated copper wire, tied to all valves and fire hydrants, and extending to 6' above finished grade along the outside of all valve stacks and hydrants.

Backfill

Finish backfill shall be native soil free of all rocks and clods greater than 3" in diameter, compacted to 95% Standard Proctor Density. In 8' maximum loose lifts, with 0% to +3% Optimum Moisture.

Service Taps

Service taps must meet Town of Addison Standards. See General Requirements for Water Service for water service details. All taps must be inspected prior to backfilling.

Sanitary Sewer Pipe

Sanitary sewer mainline piping shall meet the extra strength requirements of ASTM Specification D3034, or SDR35 PVC for installations less than 10' deep. For installations greater than 10' deep, SDR 26 PVC shall be used.

Fittings

Fittings shall be identical with the bell and spigot configuration of the pipe, and the same class rating.

Embedment

Mainline embedment shall be NCTCOG Class "B1", with the addition of a layer of geo-textile fabric prior to the placement of the sand, or as indicated on approved, engineered plans.

Connections at Manholes

Manholes are to be poured in place with 6 sack minimum concrete mix. Asbestos cement sleeves or approved equal with rubber gasket shall be used at pipe penetrations to provide positive watertight seals.

Sewer Taps

The contractor or plumber shall make all taps in new or existing sewer mains. Water must be pumped out of tapping trench throughout the operation to prevent inflow of groundwater into the sewer system.

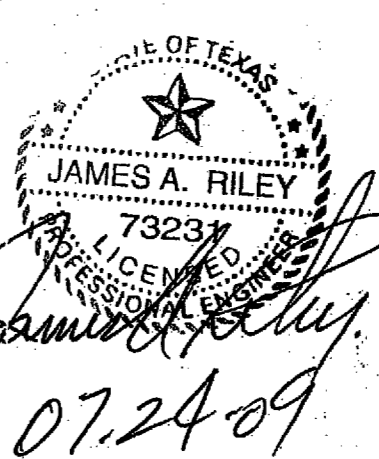


Table with 3 columns: No., REVISION, DATE. Includes a 'GENERAL NOTES' section with project details and a table with 6 columns: DESIGNED, DRAWN, DATE, SCALE, NOTES, FILE, NO. The last row contains: JAR, BDD, 7/24/09, 1"=20', BDD, C09042, C3.