

AGENDA ITEM 4

Consider noting in minutes any off right-of-way work on any County road done by Road & Bridge Unified System.

Moved: **Judge Doerfler**

Seconded: **Commissioner Boatright**

Motion: To note the following utility requests in the minutes:

Chasco Contracting for road cut on Eddystone Street in Jolly Oaks;

City of Round Rock for ROW and bore on CR 116;

Heyl Construction, Ltd., for road cuts on Brushy Creek Road; and

Southwestern Bell Telephone for ROW on CR 402.

Vote: 4 - 0

< Attachment >

WILLIAMSON COUNTY URS

Utility Requests – 07/16/02

Precinct I

- A. Chasco Contracting
 - 1. Eddystone Street in Jolly Oaks – Road cut for water/waste water line
- B. City of Round Rock
 - 1. CR 116 – ROW & bore.

Precinct II

- A. Heyl construction, Ltd.
 - 1. Brushy Creek Road – Road cuts for waste water lines

Precinct III**Precinct IV**

- A. Southwestern Bell Telephone
 - 1. CR 402 – ROW

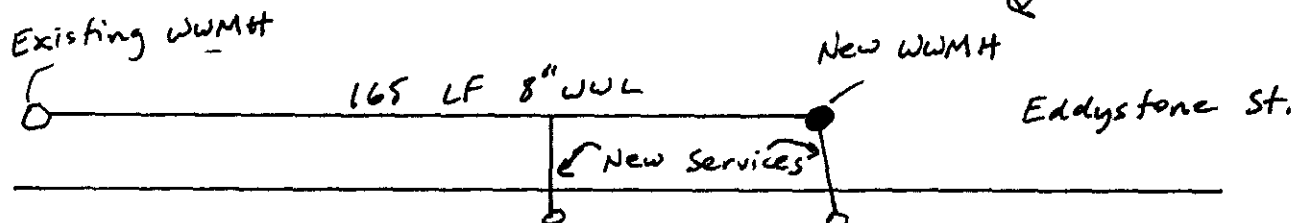
*noted 7-16-02
John C. Doerfler*

NOTICE OF PROPOSED INSTALLATION
UTILITY LINE ON WILLIAMSON COUNTY RIGHT-OF-WAY

TO: Williamson County Unified Road System
 3151 S. E. Inner Loop, Suite B
 Georgetown, Texas 78626

DATE: 7/2/02

Formal notice is hereby given that Chasco Contracting
 Company proposes to place a 8" Wastewater Line
 Line within the right-of-way of Eddystone Street
 as follows: (give location, length, general design, etc.)



The line will be constructed and maintained on the road right-of-way as directed by the Williamson County Unified Road System in accordance with governing laws.

Our firm further understands that the County considers proper traffic control measures as those complying with applicable portions of the Texas Manual of Traffic Control Devices required for adoption by the "Transportation Code" (V.C.T.A. CH.251)

The location and description of the proposed line and appurtenances is more fully shown by 2 copies of drawings attached to this notice.

Construction of this line is proposed to begin on or after the 8th day of July 2002.

APPROVAL

This application is hereby approved subject to the following understandings and restrictions.

It is expressly understood that the said County Commissioners' Court does not imply hereby to grant any right, claim, title or easement in or upon this County Road; and it is further understood that in the future, should Williamson County, for any reason, need to work, improve, relocate, widen, increase, add to, decrease, or in any manner change the structure of this road or right-of-way, this line, if affected, will be moved at the direction of the Williamson County Engineer or County Commissioner. This installation work shall not damage any part of the roadway and adequate provisions shall be made to cause a minimum of inconvenience to traffic and adjacent property owners.

APPROVED BY WILLIAMSON COUNTY COMMISSIONERS' COURT

BY: [Signature]
 COUNTY ROAD ADMINISTRATOR

DATE: 7/8/02

Firm: Chasco Contracting

Russell Hirsch
 Authorized Signature

Russell Hirsch
 Printed Name

Address: _____

P.O. Box 1057

Round Rock, TX 78680

Phone: 244 0600

Fax: 244 6085

Pct. 1

7-9-02

Street cut

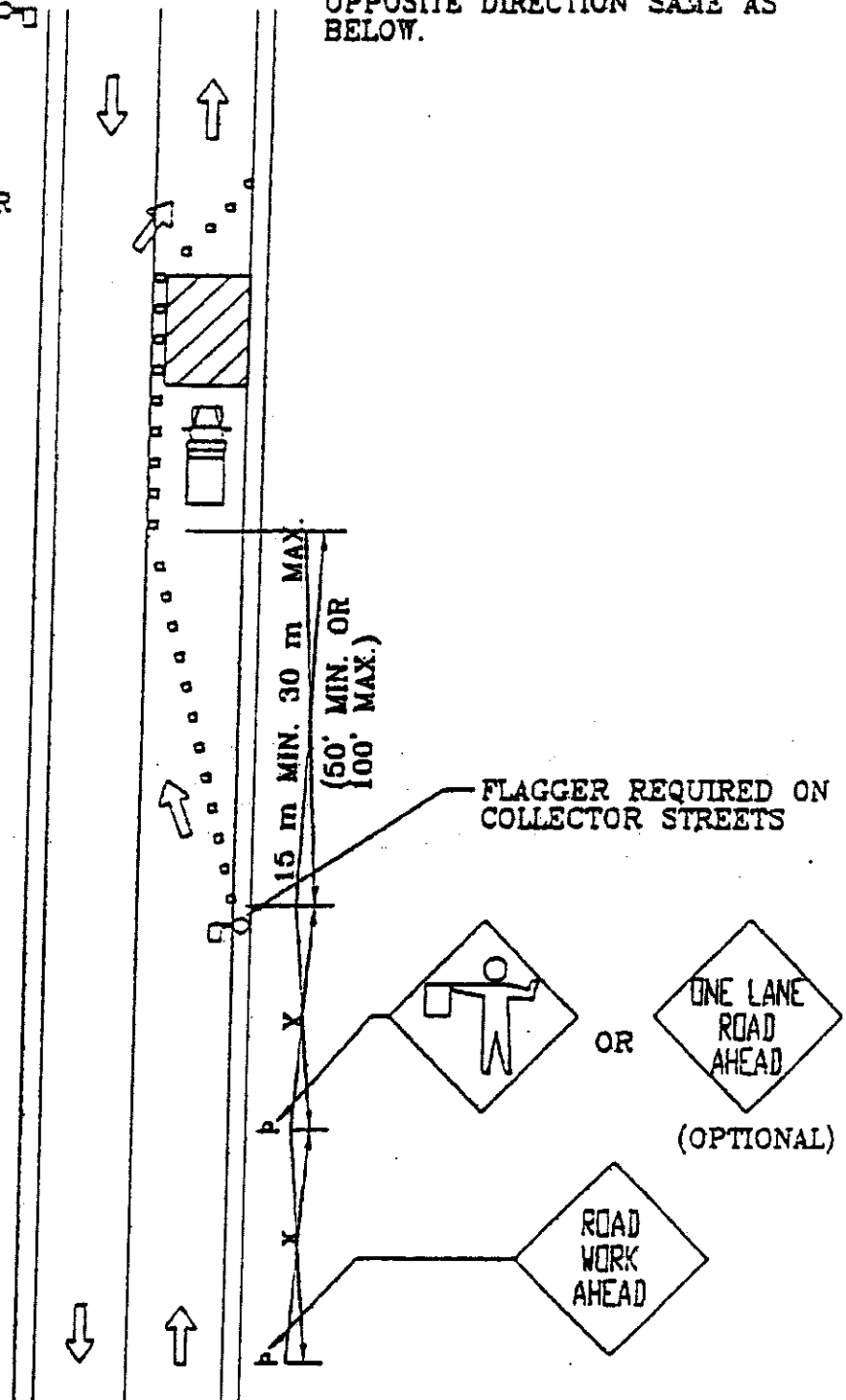
BC - to Co. Clerk 7-10-02
 to Com. Oct. 7-16-02

FLAGGER REQUIRED ON
COLLECTOR STREETS

NOTE:

WARNING SIGN SEQUENCE IN
OPPOSITE DIRECTION SAME AS
BELOW.

USE OF SECOND FLAGGER
IS OPTIONAL.



SEE STANDARD 804S-2
SHEET 8 OF 8
FOR DEVICE SPACING.

| | | | |
|-----------------------------------------------|--------------------|-------------------------------------------------------------------------------------------|----------------------------------|
| CITY OF AUSTIN | | COLLECTOR / RESIDENTIAL STREET FLAGGING OPERATIONS | |
| DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION | | | |
| RECORD COPY SIGNED BY LEON BARBA | 8/18/00 ADOPTED | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. | STANDARD NO. 804S-2 1 OF 8 |

NOTICE OF PROPOSED INSTALLATION
UTILITY LINE ON WILLIAMSON COUNTY RIGHT-OF-WAY

TO: Williamson County Unified Road System
3151 S. E. Inner Loop, Suite B
Georgetown, Texas 78626

DATE: 7/12/02

Formal notice is hereby given that City of Round Rock

Company proposes to place a 48-inch Diameter Potable Water Line

Line within the right-of-way of County Road 116
as follows: (give location, length, general design, etc.)

LOCATION: Within the Right of Way of County Road 116 as shown in the attached location map labeled 0C02 and the attached plan and profile sheet labeled 1C06.

LENGTH: The total length of 48-inch diameter water line installed within the R.O.W. is approximately 25 linear feet. The water line will be fully encased for a total length of approximately **80** linear feet.

DESIGN: The pipeline material will be steel or ductile iron (Owner's option) with a maximum working pressure of 200 psi. The 60-inch diameter steel casing pipe is to be installed by open trenching per the attached Sheet 2C01. A minimum wall thickness of 0.50 inch is required for the casing pipe as shown in the attached Specification.

The line will be constructed and maintained on the road right-of-way as directed by the Williamson County Unified Road System in accordance with governing laws.

Our firm further understands that the County considers proper traffic control measures as those complying with applicable portions of the Texas Manual of Traffic Control Devices required for adoption by the "Transportation Code" (V.C.T.A. CH.251)

The location and description of the proposed line and appurtenances is more fully shown by 1 copies of drawings attached to this notice.

Construction of this line is proposed to begin on or after the 1st day of October 2002.

APPROVAL

This application is hereby approved subject to the following understandings and restrictions.

It is expressly understood that the said County Commissioners' Court does not imply hereby to grant any right, claim, title or easement in or upon this County Road; and it is further understood that in the future, should Williamson County, for any reason, need to work, improve, relocate, widen, increase, add to, decrease, or in any manner change the structure of this road or right-of-way, this line, if affected, will be moved at the direction of the Williamson County Engineer or County Commissioner. This installation work shall not damage any part of the roadway and adequate provisions shall be made to cause a minimum of inconvenience to traffic and adjacent property owners.

APPROVED BY WILLIAMSON COUNTY COMMISSIONERS' COURT

BY: [Signature]
COUNTY ROAD ADMINISTRATOR

DATE: 7/16/02

Firm: City of Round Rock

[Signature]
Authorized Signature

Don Rundell, P.E.
Printed Name
Address: _____

2008 Enterprise Drive
Round Rock, TX 78664

Phone: (512) 218-5555

Fax: (512) 218-5563

Pct. 1

received
7/15/02

7/15/02

K.O. W. Bole

[Signature]

1 99C25

2 **SECTION 02221**3 **TRENCHING, BACKFILLING, AND COMPACTING FOR UTILITIES**4 **PART 1 - GENERAL**5 **1.1 SUMMARY**6 **A. Section Includes:**

- 7 1. Excavation, trenching, backfilling and compacting for all underground utilities.

8 **B. Related Sections include but are not necessarily limited to:**

- 9 1. Division 0 - Contracts and Conditions.
10 2. Division 1 - General Requirements.
11 3. Section 02200 - Earthwork.
12 4. Section 02224 - Pipeline Undercrossings.
13 5. Section 02515 - Precast Concrete Manhole Structures.

14 **1.2 QUALITY ASSURANCE**15 **A. Referenced Standards:**

- 16 1. American Association of State Highway & Transportation Officials (AASHTO):
17 a. T99, The Moisture-Density Relations of Soils Using a 5.5 LB Rammer and a 12 IN
18 Drop.
19 b. T180, Moisture-Density Relations of Soils Using a 10 LB Rammer and an 18 IN Drop.
20 2. American Society for Testing and Materials (ASTM):
21 a. C33, Standard Specification for Concrete Aggregates.
22 b. D698, Test Method for Laboratory Compaction Characteristics of Soil Using Standard
23 Effort (12,400 ft-lb/ft³).
24 c. D1557, Test Method for Laboratory Compaction Characteristics of Soil Using
25 Modified Effort (56,000 ft-lb/ft³ (2,700 kN-m/m³)).
26 d. D2487, Standard Classification of Soils for Engineering Purposes (Unified Soil
27 Classification System).
28 e. D4253, Standard Test Methods for Maximum Index Density of Soils Using a Vibratory
29 Table.
30 f. D4254, Minimum Index Density of Soils and Calculation of Relative Density.
31 g. D558, Moisture-Density Relations of Soil Cement Mixtures.

32 **B. Qualifications:**

- 33 1. As needed, hire an independent soils laboratory to verify Owner's testing results of in-place
34 moisture-density and Proctor values for embedment and backfill material to assure that all
35 work complies with this Specification.
36 2. Registered professional engineer licensed in the State of Texas for design of trench shoring
37 systems or other trench safety plans.
38

39 **1.3 DEFINITIONS**40 **A. Excavation:**

- 41 1. All excavation will be defined as unclassified.

42 **1.4 SUBMITTALS**43 **A. Shop Drawings:**

- 44 1. See Section 01340.
45 2. Submit test reports and fully document each with specific location or stationing information,
46 date, and other pertinent information.

3. Submit respective pipe or conduit manufacturer's data regarding bedding methods of installation and general recommendations.
4. Submit sieve analysis reports on all granular embedment materials proposed for use.
5. Retain the services of a registered professional engineer licensed in the State of Texas to design a trench safety plan and/or trench shoring drawings as required by law. Include current certification of trench shields (trench boxes) if employed.

1.5 PROJECT CONDITIONS

- A. Avoid overloading or surcharge a sufficient distance back from edge of excavation to prevent slides or caving. Maintain and trim excavated materials in such manner to be as little inconvenience as possible to public and adjoining property owners.
- B. Provide full access to public and private premises and fire hydrants, at street crossings, sidewalks and other points as designated by Owner to prevent serious interruption of travel.
- C. Protect and maintain bench marks, monuments or other established points and reference points and if disturbed or destroyed, replace items to full satisfaction of Owner and controlling agency.
- D. Verify existence and location of underground utilities. Take precaution to avoid damaging existing utilities. Contractor is responsible for cost associated with repairing any damages to existing utilities.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Common Trench Backfill is excavated material replaced into the trench subject to the following requirements:
 1. As approved by Engineer.
 - a. Free of rock cobbles, roots, sod or other organic matter, and frozen material.
 - b. Maximum particle size shall not exceed 4 IN.
 - c. Moisture content at time of placement: 3 percent plus/minus of optimum moisture content as specified in accordance with ASTM D698.
- B. Carefully Compacted Backfill is excavated material replaced into the trench subject to the following requirements:
 1. As approved by Engineer.
 - a. Free of rock cobbles, roots, sod or other organic matter, and frozen material.
 - b. Maximum particle size shall not exceed 1 IN.
 - c. Moisture content at time of placement: 2 percent plus/minus of optimum moisture content as specified in accordance with ASTM D698.
- C. Embedment Materials:
 1. As approved by the Engineer.
 2. Select granular material consisting of well-graded natural or crushed gravel:
 - a. ASTM C33, gradation 67 (3/4 IN to No. 4 sieve) defined below:

| Sieve Size | 1 IN | 3/4 IN | 3/8 IN | No.4 | No.20 |
|-----------------|------|--------|--------|------|-------|
| Percent Passing | 100 | 90-100 | 20-55 | 0-10 | 0 |
| by Weight | | | | | |
 3. Options to select granular material:
 - a. Coarse-grained soils with less than 5% passing the No. 200 sieve. Materials shall meet the Unified Soil Classification (ASTM D2487) for the following soil groups:
 - 1) GW – Well-graded gravels, gravel-sand mixtures.
 - 2) GP – Poorly-graded gravels, gravel-sand mixtures.
 - 3) SW – Well-graded sands, gravelly sands.

- 1 4) SP - Poorly-graded sands, gravelly sands.
- 2 b. Flowable Fill or Controlled Low Strength Material (CLSM):
- 3 1) Prepare mix design in accordance with the guidelines of the Texas Aggregates and
- 4 Concrete Association.
- 5 2) Submit CLSM mix design for approval.
- 6 3) Supply CLSM by a ready mix concrete producer experienced in mixing and
- 7 transporting CLSM.
- 8 4) Cement - ASTM C150, Type I/II.
- 9 5) Fly Ash - ASTM C618, Class C or Class F.
- 10 6) Water - per ASTM C94.
- 11 7) Admixtures - ASTM C260 and/or C494.
- 12 8) Fine Aggregate - Natural or manufactured sand, or a combination thereof, free
- 13 from injurious amounts of salt, alkali, vegetable matter or other objectionable
- 14 material. Maximum particle size $\frac{3}{4}$ IN, with 90 to 100% passing the No. 4 sieve.
- 15 No more than 10% passing the No. 200 sieve (fines).
- 16 a) If a flowable mixture cannot be produced, the sand may be rejected.
- 17 9) Consistency shall be tested by filling an open-ended 3-IN diameter cylinder 6 IN
- 18 high to the top with CLSM. The cylinder shall be immediately pulled straight up
- 19 and the correct consistency of the CLSM shall produce a minimum 8 IN diameter
- 20 circular-type spread with no segregation.
- 21 10) Compressive strength shall be greater than 20 PSI at 3 days and less than 300 psi at
- 22 28 days.
- 23 a) Use set accelerator if a high early strength is needed to permit backfilling.
- 24 11) Mix and deliver CLSM in accordance with recommendations of the National
- 25 Ready Mixed Concrete Association.
- 26 12) CLSM may be used up to the springline of the pipe with granular embedment used
- 27 above the springline and over the top of the pipe.
- 28 4. Embedment material shall not contain more than 400 ppm chlorides.
- 29 5. Maximum particle size in embedment material shall be 1 IN.
- 30 D. Cement Stabilized Backfill and Embedment:
- 31 1. Use sand, silty sand, or gravelly sand soils (non-plastic) as approved by Engineer.
- 32 2. Uniformly mix 2 sacks of Type I/II dry Portland cement per cubic yard of approved soils.
- 33 3. Thoroughly mix dry cement into soil using pugmill, rotary mixer, or front-end loader bucket
- 34 by dumping material back and forth until cement is thoroughly and uniformly distributed.
- 35 4. Moisture content at the time of placement shall be plus 3% to minus 1% of optimum
- 36 moisture content per ASTM D558.
- 37 5. Place in 6 to 8 IN thick loose lifts and compact to not less than 95% of maximum dry
- 38 density, as determined by ASTM D558. Compact within two hours of mixing.
- 39 6. For pipe having 10 FT or greater cover, or as otherwise indicated on the Drawings, pipe
- 40 embedment material shall be cement stabilized soil, as follows:
- 41 a. Cement stabilized embedment shall consist of moist sandy soil, which complies with
- 42 Unified Soil Classifications (ASTM D2487) SW or SP having less than 7% passing the
- 43 No. 200, mixed with two sacks of Type I/II dry Portland cement per cubic yard of
- 44 embedment.
- 45 b. Thoroughly mix dry cement into soil using pugmill, rotary mixer, or front-end loader
- 46 bucket by dumping material back and forth until cement is thoroughly and uniformly
- 47 distributed.
- 48 c. Moisture content at the time of placement shall be plus 3% to minus 1% of optimum
- 49 moisture content per ASTM D558.
- 50 d. Place in 6 to 8 IN thick loose lifts and compact to not less than 95% of maximum dry
- 51 density, as determined by ASTM D558. Compact within two hours of mixing.
- 52 E. Subgrade Stabilization Materials:
- 53 a. Provide materials consisting of gravel or crushed rock with the following gradation:
- 54

| | | | | | |
|-----------------|--------|--------|-------|-------|-------|
| Sieve Size | 2 ½ IN | 2 IN | 1 IN | ½ IN | No. 4 |
| Percent Passing | 100 | 95-100 | 35-70 | 10-30 | 0-5 |
| by Weight | | | | | |

- F. Road Repair Materials:
 - 1. Backfill for all roads and surface course for unpaved roads:
 - a. TxDOT Grade A, Type 2 flexible base.
 - 2. Surface course for asphalt paved roads:
 - a. Tack coat curing asphalt, MC-30.
 - b. Hot mix asphaltic concrete, HMAC, TxDOT Type D.

PART 3 - EXECUTION

3.1 EXCAVATION

- A. Unclassified Excavation:
 - 1. Remove rock excavation, clay, silt, gravel, hard pan, loose shale, and loose stone as required to install permanent construction.
 - 2. No separate payment will be made for rock excavation.
- B. Excavation for Appurtenances:
 - 1. 12 IN (minimum) clear distance between outer surface and embankment.
 - 2. See Section 02200 for applicable requirements.
 - 3. See Section 02515 for applicable requirements.
- C. Trench Excavation:
 - 1. Strip topsoil in accordance with Section 02110 and keep separate from remaining excavated material. Reuse topsoil at top of backfill and grade to match adjacent ground. In all cases, depth of topsoil shall be a minimum of 4 IN.
 - 2. Excavate trenches by open cut method to depth shown on Drawings and necessary to accommodate work.
 - a. Install casing pipe by tunneling, jacking, or boring where shown on Drawings. See Section 02224.
 - 3. Open trench:
 - a. No more than the distance between two manholes, structures, units, or 600 LF, whichever is less.
 - b. Field adjust limitations as weather conditions dictate.
 - 4. Trenching near buildings, units, or structures:
 - a. No more than 100 LF at any one time.
 - 5. Any trench or portion of trench, which is opened and remains idle for 3 calendar days, or longer, as determined by the Owner, may be directed to be immediately refilled, without completion of work, at no additional cost to Owner. Said trench may not be reopened until Owner is satisfied that work associated with trench will be prosecuted with dispatch.
 - 6. Observe following trenching criteria:
 - a. Trench size.
 - 1) Excavate width to accommodate free working space.
 - 2) Maximum trench width at top of pipe or conduit may not exceed outside diameter of utility service by more than the following dimensions:

| OVERALL DIAMETER | |
|--------------------|------------------|
| OF UTILITY SERVICE | EXCESS DIMENSION |
| 33 IN and less | 12 IN |
| More than 33 IN | 18 IN |

- 3) Cut trench walls vertically from bottom of trench to a minimum of 6 IN above top of pipe, conduit, or utility service.

- 1 4) Keep trenches free of water. Include cost of dewatering in unit price bid for pipe.
- 2 D. Remove and dispose of unsuitable materials off site at an approved disposal site.
- 3 E. Remove and dispose of excess excavated materials off site at an approved disposal site.
- 4 1. If Contractor enters into an agreement with landowner for disposal of materials on property,
- 5 Contractor shall provide Owner with an executed copy of the agreement.

6 3.2 PREPARATION OF FOUNDATION FOR PIPE LAYING

- 7 A. Over-Excavation:
 - 8 1. Backfill and compact to 90 percent of maximum dry density per ASTM D698.
 - 9 2. Backfill with compacted embedment material as option.
- 10 B. Rock Excavation:
 - 11 1. Excavate minimum of 6 IN below bottom exterior surface of the pipe or conduit.
 - 12 2. Backfill to grade with suitable earth or embedment material.
 - 13 3. Form bell holes in trench bottom.
- 14 C. Subgrade Stabilization:
 - 15 1. Stabilize the subgrade when directed by the Owner.
 - 16 2. Observe the following requirements when unstable trench bottom materials are encountered.
 - 17 a. Notify Owner when unstable materials are encountered.
 - 18 1) Define by drawing station locations and limits.
 - 19 b. Remove unstable trench bottom caused by Contractor failure to dewater, rainfall, or
 - 20 Contractor operations.
 - 21 1) Replace with subgrade stabilization with no additional compensation.

22 3.3 BACKFILLING METHODS

- 23 A. Carefully Compacted Backfill:
 - 24 1. Furnish where indicated on drawings, specified for trench embedment conditions and for
 - 25 compacted backfill conditions up to 6 IN above top of pipe.
 - 26 2. Comply with the following:
 - 27 a. Place backfill in lifts not exceeding 8 IN (loose thickness).
 - 28 b. Hand place, shovel slice, and pneumatically tamp all carefully compacted backfill.
 - 29 c. Observe specific manufacturer's recommendations regarding backfilling and
 - 30 compaction.
 - 31 d. Compact each lift to specified requirements.
- 32 B. Common Trench Backfill:
 - 33 1. Perform in accordance with the following:
 - 34 a. Place backfill in lift thicknesses capable of being compacted to densities specified.
 - 35 b. Observe specific manufacturer's recommendations regarding backfilling and
 - 36 compaction.
 - 37 c. Avoid displacing joints and appurtenances or causing any horizontal or vertical
 - 38 misalignment, separation, or distortion.
- 39 C. Water flushing for consolidation is not permitted.

40 3.4 COMPACTION

- 41 A. General:
 - 42 1. Place and assure embedment, backfill, and fill materials achieve an equal or "higher" degree
 - 43 of compaction than undisturbed materials adjacent to the work.
 - 44 2. In no case shall degree of compaction below "Minimum Compaction" specified be accepted.
- 45 B. Compaction Requirements: Unless noted otherwise on Drawings or more stringently by other
- 46 sections of these Specifications, comply with following trench compaction criteria:
- 47
- 48

MINIMUM COMPACTION REQUIRED

| LOCATION | SOIL TYPE | DENSITY |
|--------------------------------------------------------------------------|--------------------|------------------------------------------------------------------|
| 1. Embedment Material: | | |
| All Locations | Cohesionless Soils | 70 percent of maximum relative density per ASTM D4253 and D4254 |
| 2. Carefully Compacted Backfill: | | |
| All applicable areas | Cohesive soils | 95 percent of maximum dry density per ASTM D698 |
| — | Cohesionless soils | 70 percent of maximum relative density per ASTM D4253 and D4254 |
| 3. Common Trench Backfill: | | |
| Under pavements roadways surfaces, within highway right-of-ways | Cohesive soils | 100 percent of maximum dry density per ASTM D698 |
| | Cohesionless soils | 70 percent of maximum relative density per ASTM D 4253 and D4254 |
| All other areas | Cohesive soils | 90 percent of maximum dry density per ASTM D698 |
| | Cohesionless soils | 65 percent of maximum relative density per ASTM D4253 and D4254 |

3.5 FIELD QUALITY CONTROL

A. Testing:

1. Owner will perform in-place moisture-density tests as deemed necessary.
2. Tests will be performed through recognized testing laboratory established by Owner.
3. Costs of "Passing" tests paid by Owner.
4. Additional tests will be performed until compaction meets or exceeds requirements.
5. Cost associated with "Failing" tests shall be paid by Contractor.
6. Assure Owner has immediate access for testing of all soils related work.
7. Ensure excavations are safe for testing personnel.

END OF SECTION

1 96G31

2

3

SECTION 02224
PIPELINE UNDERCROSSINGS

4 **PART 1 - GENERAL**5 **1.1 SUMMARY**6 **A. Section Includes:**

7 1. Construction of pipe undercrossings.

8 **B. Related Sections include but are not necessarily limited to:**

9 1. Division 0 - Contracts and Conditions.

10 2. Division 1 - General Requirements.

11 3. Section 02221 - Trenching, Backfilling, and Compacting for Utilities.

12 4. Section 15061 - Pipe: Steel.

13 5. Section 15062 - Pipe: Ductile.

14 **1.2 QUALITY ASSURANCE**15 **1.3 SUBMITTALS**16 **A. Shop Drawings:**

17 1. See Section 01340.

18 2. Product data sheets for casing spacers and manufacturer's recommendations regarding
19 runner configuration and spacing of casing spacers along the carrier pipe.20 3. Prior to initiating construction, the Contractor shall submit to the Engineer for approval,
21 proposed methods for performance of operations as follows:

22 a. Site plan of the undercrossing entrances showing excavation limits.

23 b. Quality control methods including, but not limited to, procedure for checking line and
24 grade.

25 c. Safety procedures including, but not limited to, monitoring for oxygen and gases.

26 d. Grouting techniques and equipment to be employed.

27 e. Dewatering techniques and equipment to be employed.

28 4. Comply with submittal requirements of authority or agency having jurisdiction over
29 undercrossing.30 **PART 2 - PRODUCTS**31 **2.1 MATERIALS**32 **A. Casing Pipe:**33 1. Structural grade steel: Minimum yield strength of 35,000 psi or greater as required by the
34 permits.

35 2. Wall thickness:

36 a. Railroad bore (Sta. 1+44.00 to 2+50.00): 0.75 IN.

37 b. IH-35 East Frontage Road bore (Sta. 34+24.00 to Sta. 36+04.00): 0.625 IN.

38 c. All other bores: Minimum 0.50 IN.

39 3. Diameter: Minimum of 6 IN larger than outside diameter of carrier pipe's jointing system.

40 4. All casing pipe shall be new; no recycled or rehabilitated piping will be accepted.

41 **B. Casing Spacers:**

42 1. Manufactured by Pipeline Seal & Insulator, Inc., Houston, Texas, or equal.

43 a. Model 12G-2 for pipe sizes greater than 24 IN diameter.

- 1 2. Casing spacers shall have a minimum 14 gauge steel band and 10 gauge risers. The band,
- 2 risers and connecting studs shall be welded, and pickled before applying a PVC coating of
- 3 15 mils thickness. Epoxy coatings are not an acceptable alternative.
- 4 3. The spacer shall have a flexible PVC liner with a Durometer "A" 85 hardness.
- 5 4. The runners shall be of high pressure molded Glass Reinforced Polyester with a minimum
- 6 compressive strength of 18,000 psi, 2 IN in width, and a minimum 7 IN long. Polyethylene
- 7 runners are not an acceptable alternative.
- 8 5. The runners shall be attached to the band or riser by 3/8 IN welded steel studs and lock nuts,
- 9 which shall be recessed in the runner. Recess shall be filled with a corrosion inhibiting filler.
- 10 The band section shall be bolted together with cadmium-plated studs, nuts, and washers.

11 PART 3 - EXECUTION

12 3.1 INSTALLATION

13 A. General:

- 14 1. Install undercrossing to meet requirements of authority or agency having jurisdiction over
- 15 undercrossing.
- 16 2. Observe work requirements stipulated in any permit condition.
- 17 3. Consult Contract Drawings for limitation of construction right-of-way.
- 18 4. The Contractor shall inspect the location where the undercrossing is to be installed and
- 19 familiarize himself with the conditions under which the work will be performed, any
- 20 possible obstructions to be avoided, and with all detail necessary for the orderly prosecution
- 21 of the work. The omission herein of any details necessary for the satisfactory installation of
- 22 the work in its entirety shall not relieve the Contractor of the responsibility to so familiarize
- 23 himself with the actual conditions under which this work is to be performed.
- 24 5. Any damage to the road, highway or railroad caused by construction operations shall be
- 25 immediately repaired by the Contractor to the satisfaction of the authority or agency having
- 26 jurisdiction over the undercrossing at no additional cost to the Owner.

27 B. If installation of crossing is by jacking or dry boring, the following will be required unless more

- 28 rigid requirements are specified by the authority or agency having jurisdiction over the crossing:
- 29 1. Diameter of the hole: Not exceeding diameter of casing by more than 1-1/2 IN.
- 30 2. Pressure grout all voids outside of casing, including abandoned or misaligned holes. Grout
- 31 material shall have a minimum strength of 1,500 psi.
- 32 3. Install grouted plug minimum of 2 FT deep at both ends of casing. The upslope plug shall
- 33 create a watertight seal between the casing and the carrier pipe. The downslope plug shall
- 34 be provided with six, 1/2-IN DIA weep holes.
- 35 4. Undercrossing casing:
- 36 a. Full lengths.
- 37 b. Weld pressure tight.
- 38 5. After casing is installed, attach casing spacers and runners to each length of carrier pipe as
- 39 required to prevent collapse or displacement and pull pipe into place. Pipe must be straight
- 40 and centered in casing when in place.
- 41 6. Coordinate connections to system with authority or agency having jurisdiction over the
- 42 crossing.

43 C. Backfill:

- 44 1. Compact backfill in accordance with trench compaction criteria specified in Section 02221.

45 D. Topsoil and Vegetation:

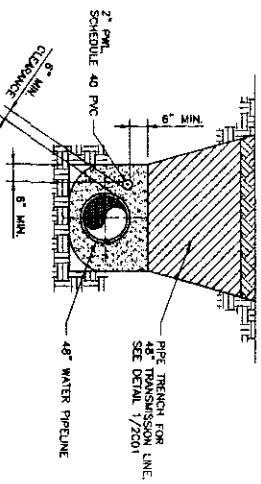
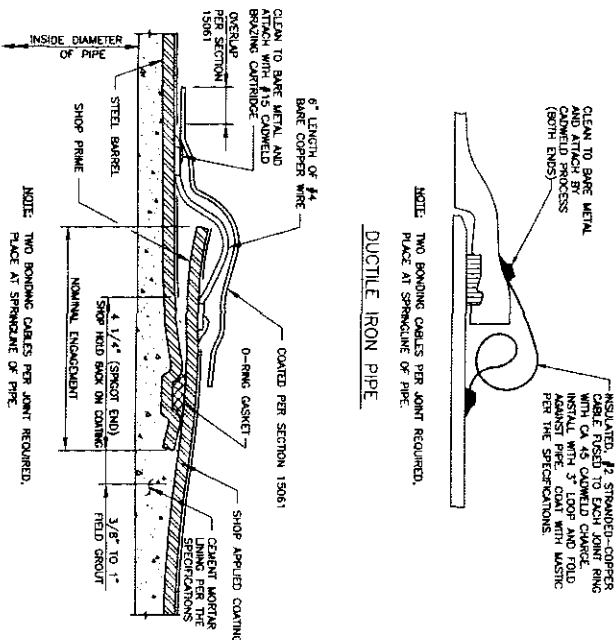
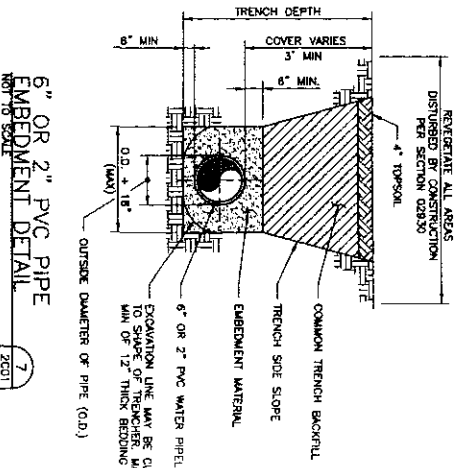
- 46 1. Topsoil disturbed areas and reestablish vegetation comparable to initial conditions.

47

END OF SECTION



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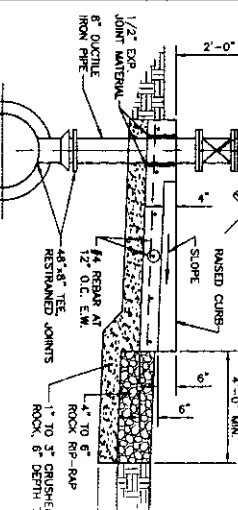
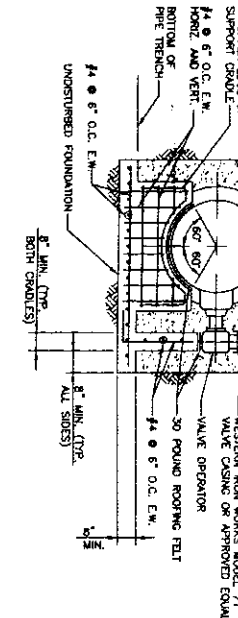
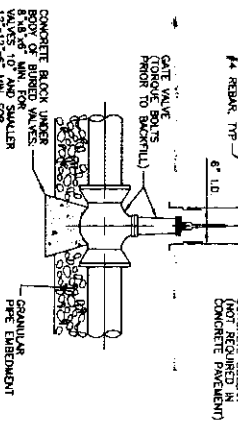
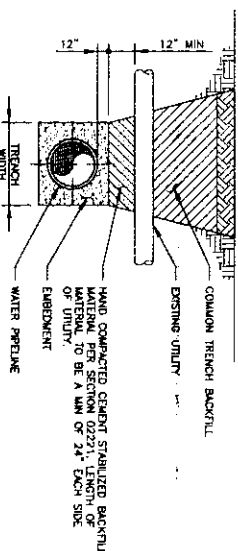
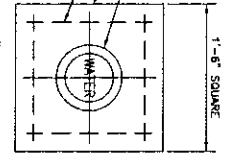
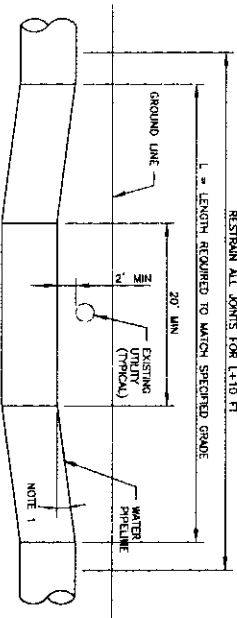
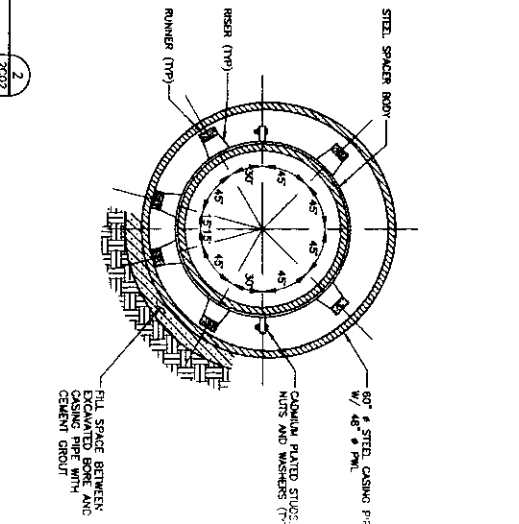
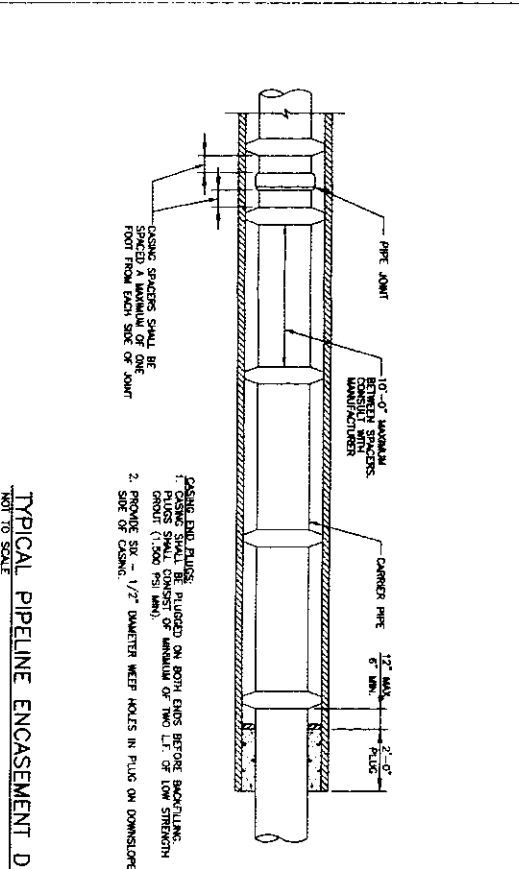
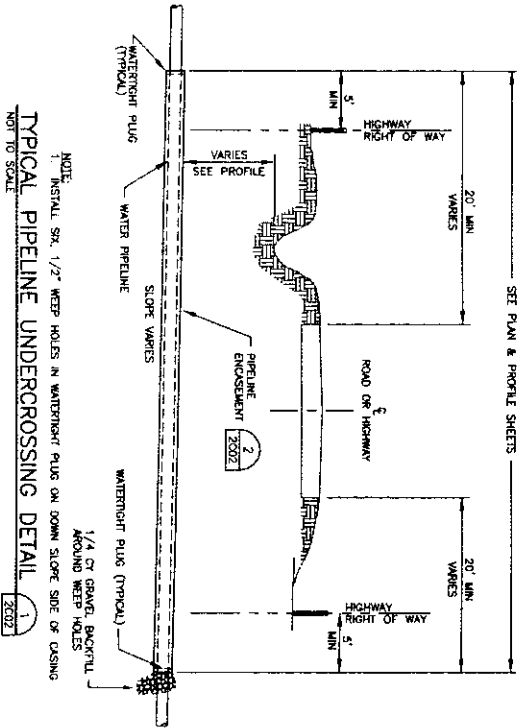
2" PVC PIPE
EMBEDMENT DETAIL
NOT TO SCALE

CITY OF ROUND ROCK, TEXAS
PUBLIC WORKS DEPARTMENT
EAST WATER TRANSMISSION LINE -
PHASE 1
48-INCH BARTON HILL TRANSMISSION
LINE

| | |
|------------------------------------------------------------------|----------------------------|
| DETAILS | |
| EMBEDMENT JOINT BONDING, AND AIR/VACUUM VALVE DETAILS | |
| DATE: MAY 2002 | PROJECT NO.: 07228-006-008 |
| DESIGN NO.: 2C01 | ISSUE NO.: |

RECORDERS MEMORANDUM
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clearly legible for satisfactory recordation.

P:\07223006\Project\2002 DWG
06-11-02 MWLER 16:43:39



EXISTING UTILITY CROSSING DETAIL
NOT TO SCALE

VALVE BOX DETAIL
NOT TO SCALE

BURIED BUTTERFLY VALVE DETAIL
NOT TO SCALE

BLOW-OFF VALVE DETAIL
NOT TO SCALE

| | | | | | |
|---|----------------|----------|-----|-----|-----|
| 0 | ISSUED FOR BID | DATE | BY | CHK | APP |
| | | 06/17/02 | LMW | NAG | AS |



| | |
|-----------------|----------------|
| Project Manager | R. A. Spickwer |
| Engineer | R. A. Spickwer |
| Checker | L. S. Jones |
| Designer | R. A. Spickwer |
| Drawn | L. S. Jones |
| Scale | As Shown |
| Project No. | 07223-006-016 |
| Sheet No. | 2002 |

| | |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name | CITY OF ROUND ROCK, TEXAS PUBLIC WORKS DEPARTMENT EAST WATER TRANSMISSION LINE - PHASE 1 48-INCH BARTON HILL TRANSMISSION LINE |
| Project No. | 07223-006-016 |
| Sheet No. | 2002 |

**NOTICE OF PROPOSED INSTALLATION
UTILITY LINE ON WILLIAMSON COUNTY RIGHT-OF-WAY**

TO: Williamson County Unified Road System
3151 S. E. Inner Loop, Suite B
Georgetown, Texas 78626

DATE: 5/31/02

Formal notice is hereby given that HEYL CONSTRUCTION, LTD (FOR THE CITY OF GEORGETOWN)

Company proposes to place a WASTEWATER LINE AT 2 LOCATIONS

Line within the right-of-way of BRUSHY CREEK ROAD
as follows: (give location, length, general design, etc.)

- 1) A DIRECT CROSSING INSTALLING AN 18" WASTEWATER LINE IN THE 3800 BLOCK OF BRUSHY CREEK RD. (ADJACENT TO THE HENRY AND WILL WILSON TRACTS.
- 2) A DIRECT CROSSING INSTALLING AN 8" WASTEWATER LINE APPROXIMATELY 100' DUE EAST OF PARMER LANE.

The line will be constructed and maintained on the road right-of-way as directed by the Williamson County Unified Road System in accordance with governing laws.

Our firm further understands that the County considers proper traffic control measures as those complying with applicable portions of the Texas Manual of Traffic Control Devices required for adoption by the "Transportation Code" (V.C.T.A. CH.251)

The location and description of the proposed line and appurtenances is more fully shown by ___ copies of drawings attached to this notice.

Construction of this line is proposed to begin on or after the 22nd day of July 2002.

APPROVAL

This application is hereby approved subject to the following understandings and restrictions.

It is expressly understood that the said County Commissioners' Court does not imply hereby to grant any right, claim, title or easement in or upon this County Road; and it is further understood that in the future, should Williamson County, for any reason, need to work, improve, relocate, widen, increase, add to, decrease, or in any manner change the structure of this road or right-of-way, this line, if affected, will be moved at the direction of the Williamson County Engineer or County Commissioner. This installation work shall not damage any part of the roadway and adequate provisions shall be made to cause a minimum of inconvenience to traffic and adjacent property owners.

APPROVED BY WILLIAMSON COUNTY COMMISSIONERS' COURT

BY: [Signature]
COUNTY ROAD ADMINISTRATOR

DATE: 7/10/02

Firm: HEYL CONSTRUCTION, LTD.

Bob Schmidt
Authorized Signature

BOB SCHMIDT

Printed Name

Address: 1420 C.R. 269

LEANDER, TX 78641

Phone: (512) 259-7710

Fax: (512) 259-7753

received
7-8-02

7-9-02


Two Road cuts

[Signature]

HEYL CONSTRUCTION, LTD
 PETTY CASH ACCOUNT
 1420 CR 269 512-259-7770
 LEANDER, TX 78641

Date 7/3/02 1351
 35-1054/1130
 277

Pay to the
 Order of WILLIAMSON COUNTY \$ 120.00
ONE HUNDRED TWENTY 00/100 Dollars

 **Compass Bank**
 Austin, Texas

For ROAD PAVER Robert E. Smith

⑆ 1130 1054 71 ⑆ 84066 206 ⑆ 1351

© 2000 Compass Bank

GUARDIAN SAFETY YELLOW NOTE

WILLIAMSON COUNTY 24206

Department 210 Date: July 3 20 02

Received From Heyl Construction, Ltd.

Address 1420 CR. 269
Leander, TX 78641

Amount One hundred twenty dollars \$ 120.00

☐ Cash ☒ Check ☐ Money Order

For: Coushy Creek Rd. road cut

Received By: B/W

Linden
845-8957

CONTRACTOR'S LIABILITY AGREEMENT

I, BOB SCHMIDT, Contractor for THE CITY OF CEDAR PARK in Williamson County, Texas do hereby agree to the following schedules and conditions for doing work within the right-of-way of BRUSHY CREEK ROAD which is a public roadway maintained by Williamson County.

1. I will contact the Williamson County Unified Road System at least 48 hours prior to start of construction.
2. All work in the right-of-way will be done between the hours of 8:30 a.m. and 4:30 p.m. on Monday through Friday only.
3. Cuts will be opened for one-half the roadway only, with flagmen on both sides of the work area, allowing one-way traffic through. This type of operation will be held to a minimum and all advance warning signs and barricades shall be as specified in the Texas Manual on Uniform Traffic Control Devices. These cuts will also be filled and entire roadway opened at night and on weekends.
4. Roadside work in ditches alongside the trenched surface may be left opened at night, only if they can be barricaded solidly between open ditch and traveled roadway leaving a minimum 6' of road shoulder between the pavement edge and the barricades. The barricades must be reflective and lighted with warning lights and conform to the requirements of the T.M.U.T.C.D. for nighttime use.
5. Any construction area to be maintained from dusk to dawn shall have Type B High Intensity Steady Burn Warning Lights to delineate the traveled way through and around obstructions in a construction or maintenance area. All warning lights shall be installed to a minimum mounting height of 36" to the bottom of the lens.
6. Construction work and road repair on County right-of-way will be done to Williamson County Standards and to the approval of the Williamson County Unified Road System.
7. I will notify the Williamson County Unified Road System and obtain approval prior to any changes from this agreement if required due to soil conditions or other problems.

5/31/02
DATE

Williamson County Unified Road System
3151 S. E. Inner Loop, Ste. B
Georgetown, Texas 78626

Bob Schmidt
SIGNED
HEYL CONSTRUCTION, LTD.
CONTRACTOR (PRINT NAME)
1420 C.R. 269
ADDRESS
LEANDER, TX 78641
CITY, STATE, ZIP CODE
512-259-7770
PHONE

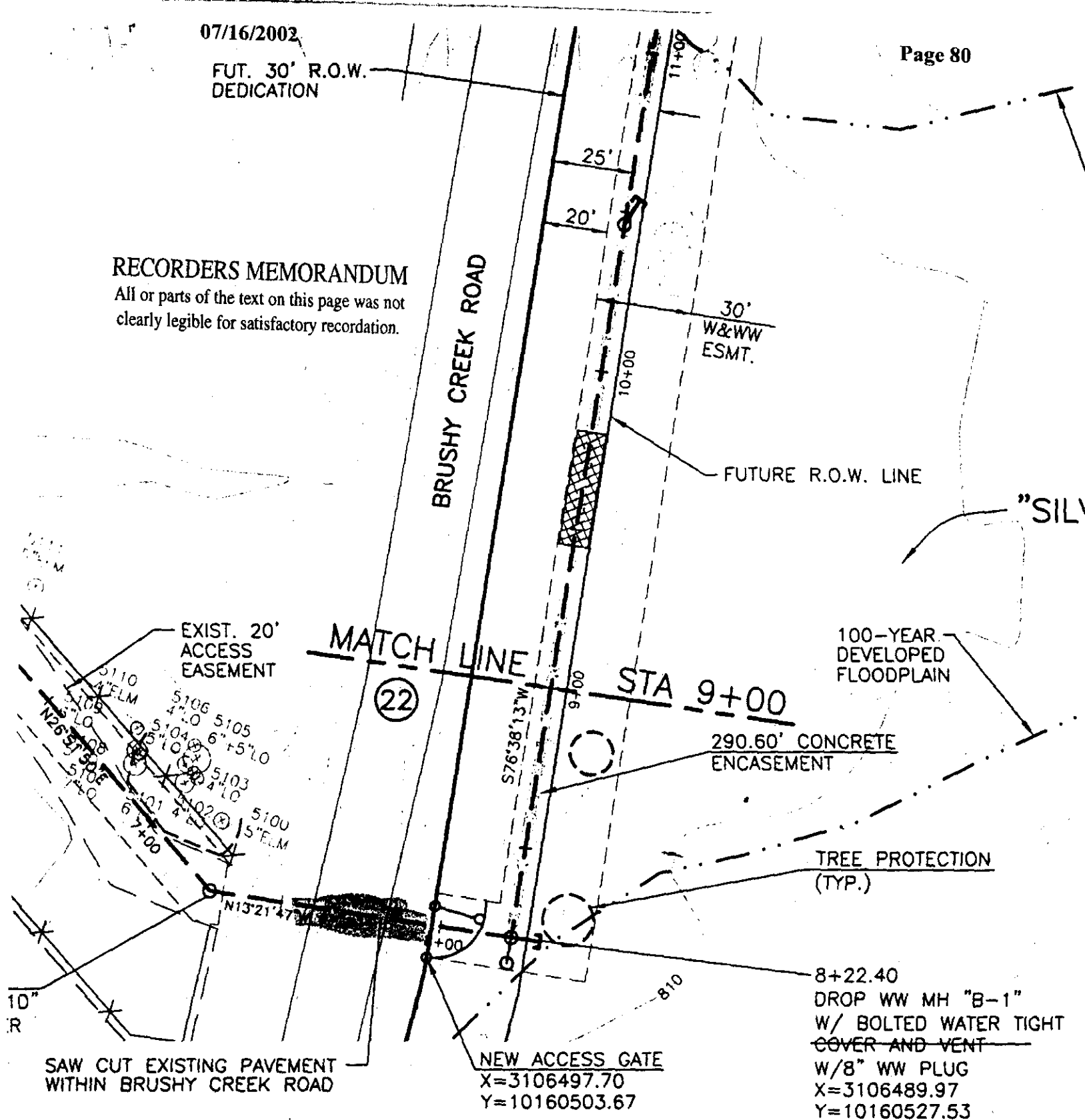
07/16/2002

Page 80

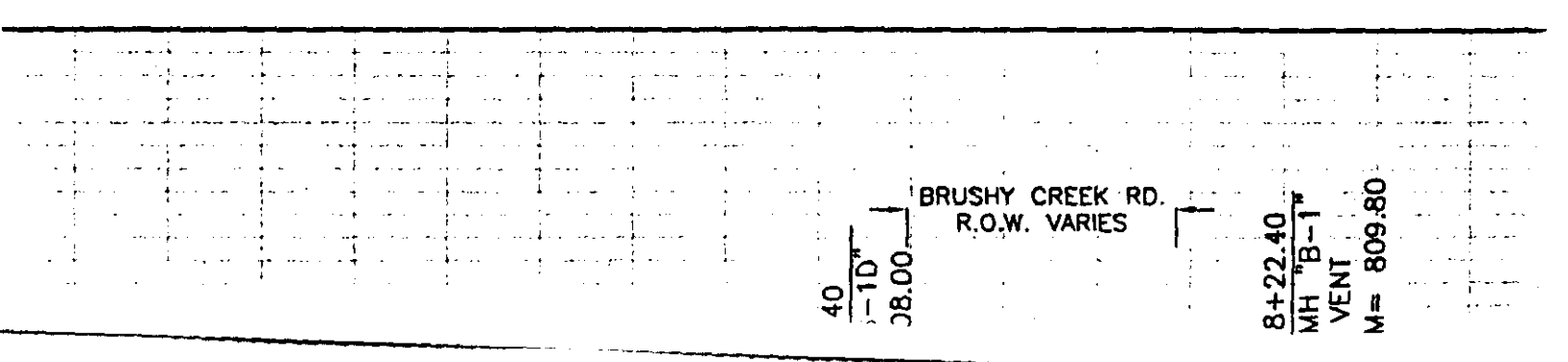
FUT. 30' R.O.W.
DEDICATION

RECORDERS MEMORANDUM

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E

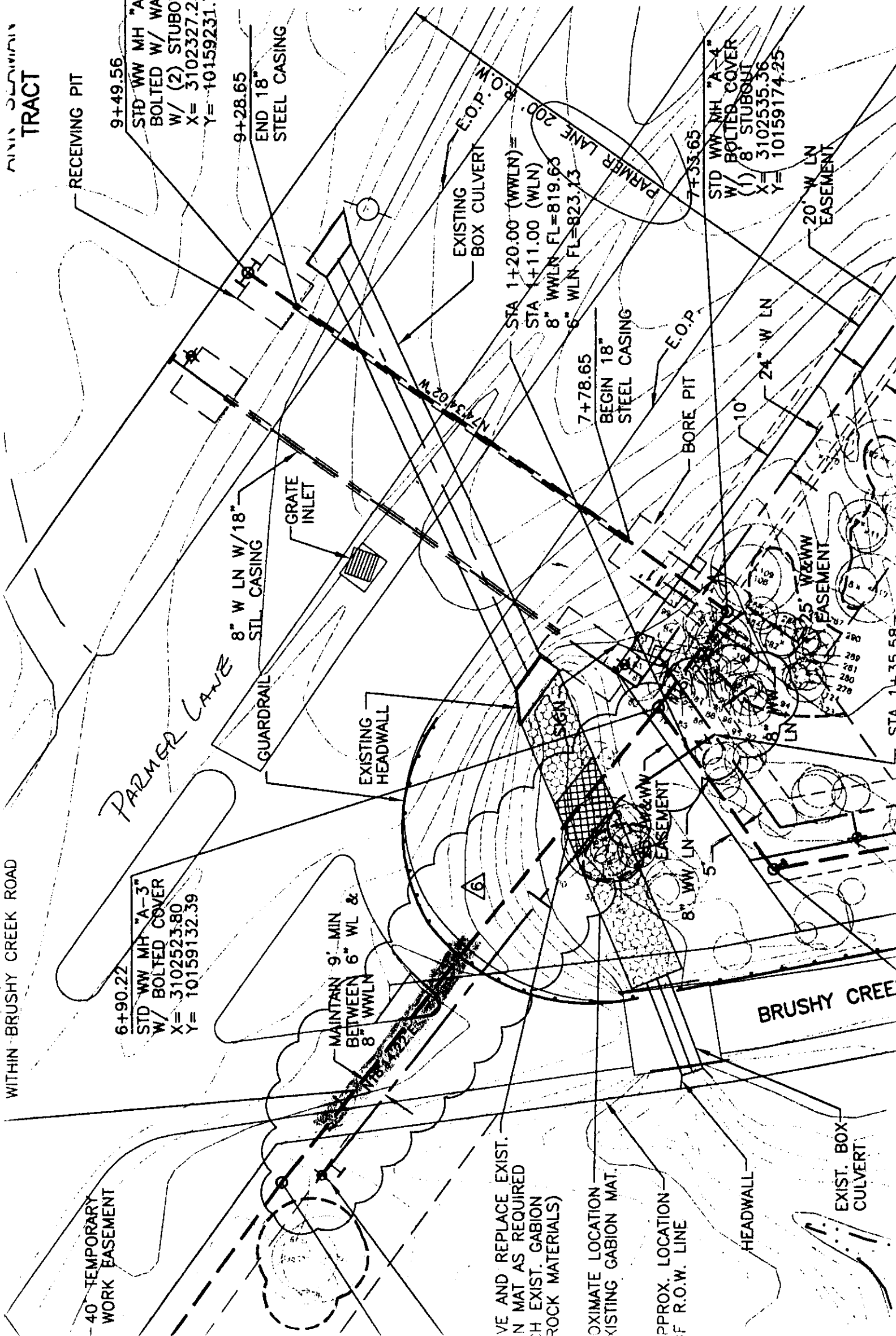


RECORDERS MEMORANDUM

All or parts of the text on this page was not clearly legible for satisfactory recordation.

WITHIN BRUSHY CREEK ROAD TRACT

WITHIN BRUSHY CREEK ROAD



NOTICE OF PROPOSED INSTALLATION

UTILITY LINE ON WILLIAMSON COUNTY RIGHT-OF-WAY

Williamson County Unified Road System
1900 Georgetown Inner Loop, Suite B
Georgetown, Texas 78626

DATE: 07/11/02 job 4974880

Formal notice is hereby given that Southwestern Bell Telephone
Company proposes to place a Fiber cable
line within the right-of-way of CR 402

as follows: (give location, length, general design, etc.) Propose to place fiber cable from the intersection of CR 402 and Hwy 79 E just west of Loop 397 and continue on to the intersection at the west end of CR 402 and Hwy 79 E. See attached plats.

The line will be constructed and maintained on the right-of-way as directed by the Williamson County Unified Road System in accordance with governing laws

Our firm further understands that the County considers proper traffic control measures as those complying with applicable portions of the Texas Manual of Traffic Control Devices required for adoption by the "Transportation Code" (V.C.T.A. CH.251)
The location and description of the proposed line and appurtenances is more fully shown by 2 copies of drawings attached to this notice.

Construction of this line is proposed to begin on or after the 5 th day of August 2002

APPROVAL

This application is hereby approved subject to the following understandings and restrictions.

It is expressly understood that the said County Commissioners' Court does not imply hereby to grant any right, claim, title or easement in or upon this County Road; and it is further understood that in the future, should Williamson Count), for any reason, need to work, improve, relocate, widen, increase, add to, decrease, or in any manner change the structure of this road or right-of-way, this line, if affected, will be moved at the direction of the Williamson County Engineer or County Commissioner. This installation work shall not damage any part of the roadway and adequate provisions shall be made to cause a minimum of inconvenience to traffic and adjacent property owners.

APPROVED BY WILLIAMSON COUNTY COMMISSIONERS' COURT

BY: [Signature]
COUNTY ROAD ADMINISTRATOR

DATE: 7/15/02Firm: Southwestern Bell Telephone CompanyAuthorized Signature: [Signature]

Printed Name: Gary R Brunner

Address: 117 N 1st StTemple, TX 76501Phone: 254-773-8549Fax: 254-773-8574

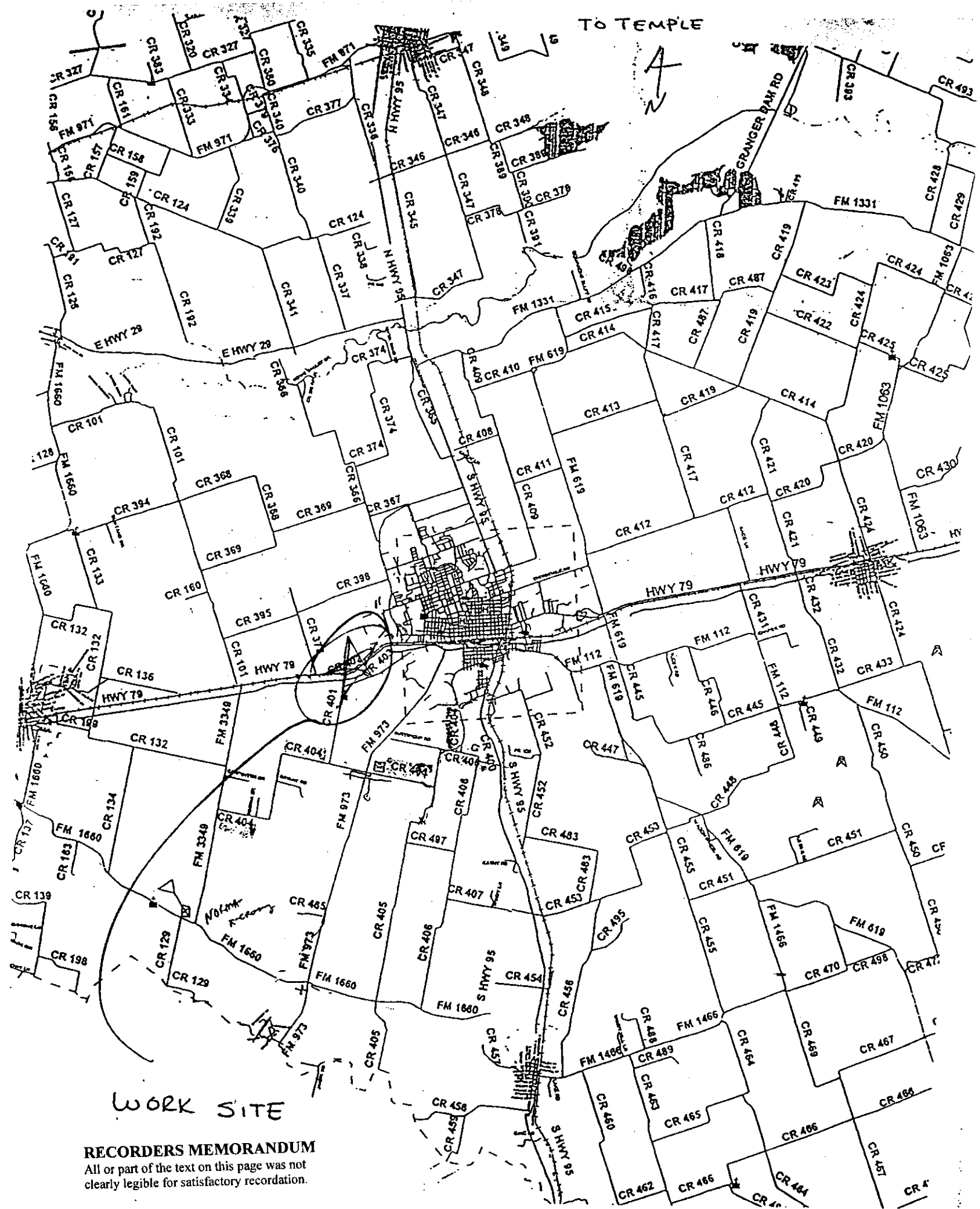
RECEIVED JUL 12 2002

- Pct. 4

7-15-02

R.O.W

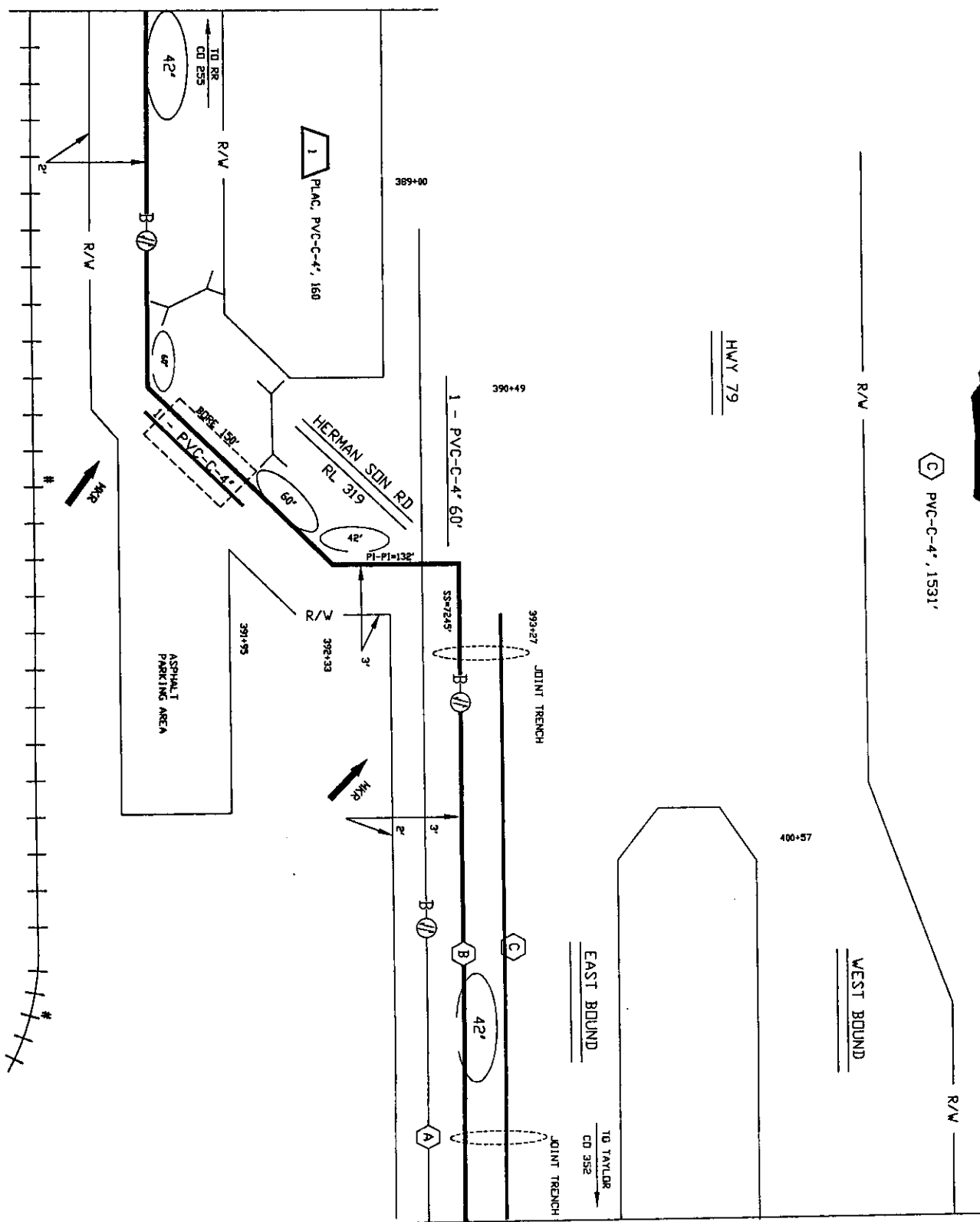
B.C.



RECORDERS MEMORANDUM

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SEE PLAT 13



SEE PLAT 15

| | | | | | | | | |
|------------------------------|------|------------------------------|---------------|--------|-------------|-----------|--|--|
| SPECIAL CIRCUITS | | N | 6203 | | N | FORWARDED | | |
| PERMIT REQUIRED | | Y | STATE/COUNTRY | | NORTH ARROW | | | |
| OPERATING RANGE OF JOB STEPS | | | | | | | | |
| LINE | 1 | TO | 1 | | | | | |
| SPICE | TO | | | | | | | |
| MTRC | 651C | | | | | | | |
| TRANSMISSION ZONE | | | | | | | | |
| RZ 0 | CZ 0 | TAPER CODE 41202 | | | | | | |
| CAUTION HIGH VOLTAGE | | | | | | | | |
| KV | 0.00 | AERIAL | N | BURIED | N | | | |
| POLE CONTACTS (+) 0 (-) 0 | | | | | | | | |
| PWR CO | | | | | | | | |
| NOTES | | | | | | | | |
| PROJECT NO 4974880 | | | | | | | | |
| TOT. PRINTS 15 | | PRINT NO. 14 | | | | | | |
| NPA/NNX: 512-32 | | PRT: 512332 | | | | | | |
| EXCH. TAILR | | CMC WAD | | | | | | |
| TAX DIST. W024 | | DRAWN D | | | | | | |
| GEO LOC. X14000 | | TELEPHONE NO. (254) 773-8549 | | | | | | |
| ENGR. G02 | | REC. REF. TOLL RECORDS | | | | | | |
| MAP REF. | | SCALE 1:100 | | | | | | |
| ISSUE DATE 05/21/2002 | | DATE REV. | | | | | | |
| PROJ TITLE 88-TAN TILL | | | | | | | | |

SEE PLAT 12

TO RR
C.O. 235

77 + 23
356 + 17

77 + 58
356 + 52

78 + 10
357 + 04

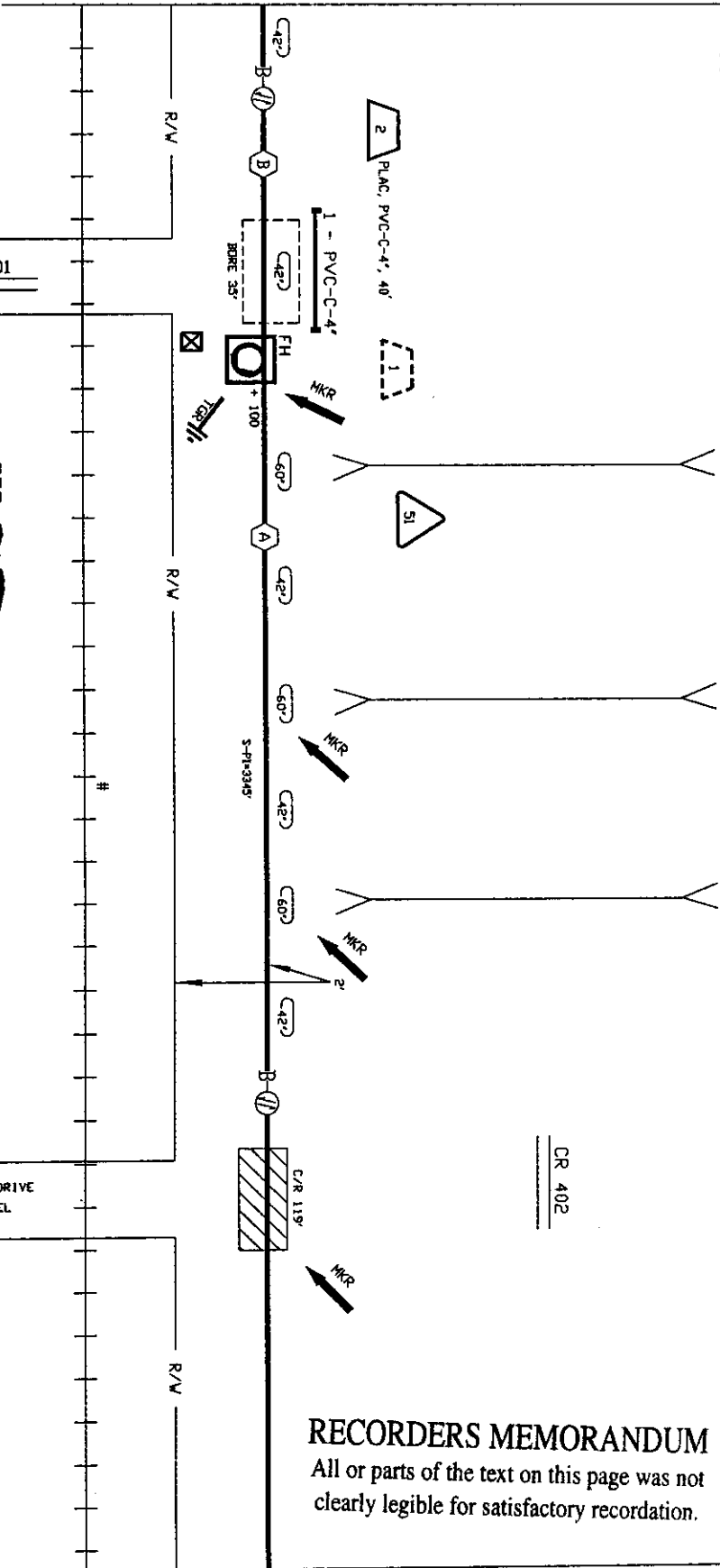
83 + 22
362 + 16

87 + 59
366 + 53

96 + 97
375 + 91

381 + 86

383 + 05



RECORDERS MEMORANDUM
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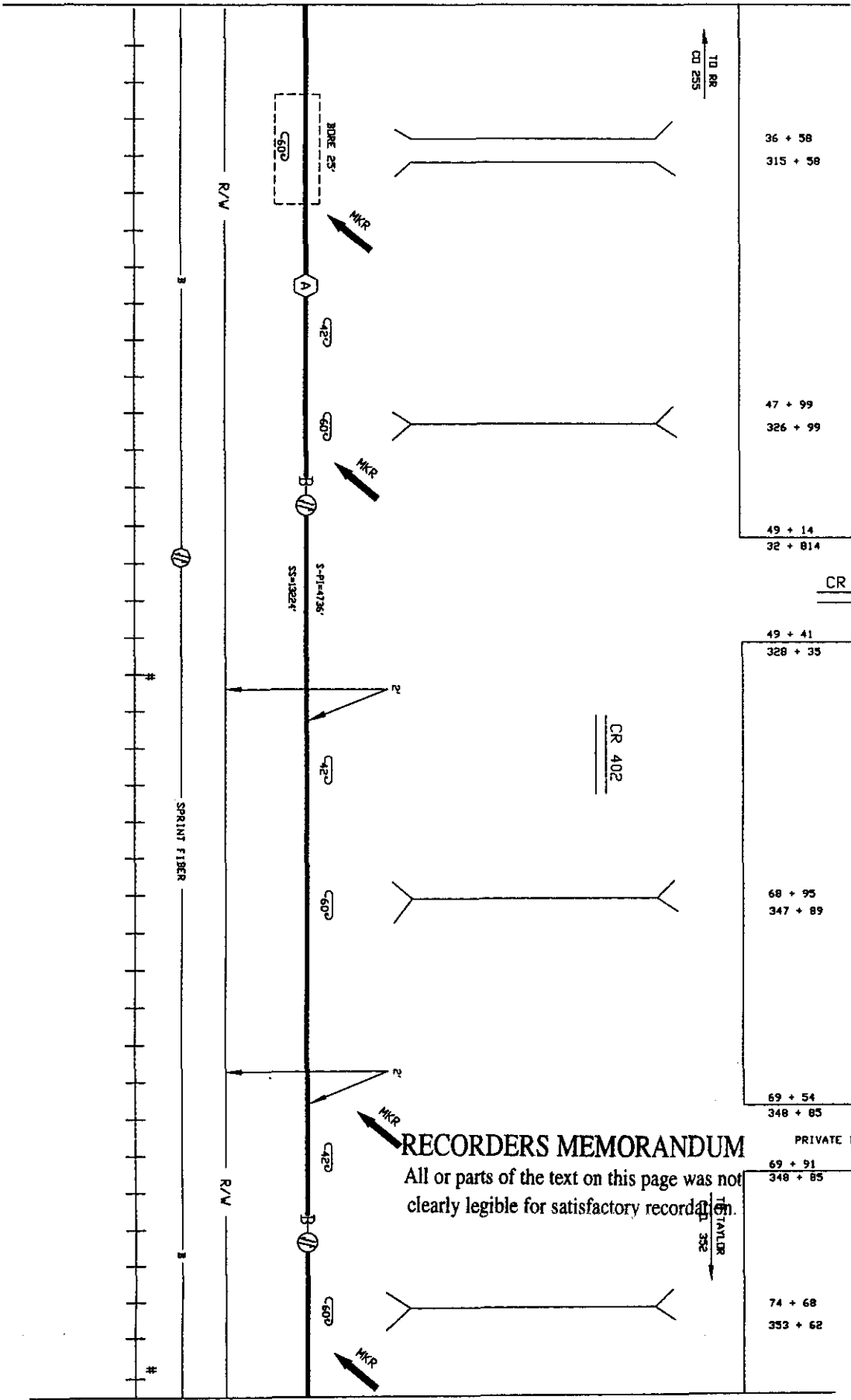
SEE PLAT 14

| OPER | ACTN | SUPPL | MAJOR | ACTN | FEI | DATE | REVISIONS | NOTES |
|------|------|-------|----------------|-------|------|------|-----------|-------|
| CODE | CODE | CODE | DESCRIPTION | CODE | M | A | DATE | |
| 1 | PLAC | | HANDHOLE-71BER | 8451C | 1 | 7295 | 1823 | 2224 |
| 3 | PLAC | | 3802MT-215 | 8451C | 5982 | 7295 | 1823 | 2224 |
| | | | | 8451C | 1263 | | 385 | |

Not for disclosure outside Southwestern Bell Telephone Company except under written agreement.

| | | |
|--------------------------------------------------------------------------|-----------------------|-------------------|
| SPECIAL CIRCUITS 6203 FORWARDED PERMIT REQUIRED COUNTY | N N N Y Y | NORTH ARROW |
| OPERATING RANGE OF JOB STEPS | | |
| LINE | 1 TO 3 | 3 |
| SPLICE | 51 TO 51 | 51 |
| MTRC / 9451C | | |
| TRANSMISSION ZONE | | |
| RZ 0 | CZ 0 | TAPER CODE 41202 |
| CAUTION HIGH VOLTAGE | | |
| KV | 0.00 | AERIAL N BURIED N |
| POLE CONTACTS (+) 0 (-) 0 | | |
| PWR CO | | |
| NOTES | | |
| PROJECT NO 4974880 | | |
| TOT PRINTS 15 PRINT NO. 13 | | |
| NPA/NNX: 512-32 PRT: 51232 | | |
| EXCH. TAILOR | | |
| TAX DIST. MK24 CMC WAD1 | | |
| GEO LOC. X14000 | | |
| ENGR. GZ DRAWN F | | |
| TELEPHONE NO. (254) 773-6549 | | |
| REC. REF. TOLL-RECORDS | | |
| MAP REF. | | |
| SCALE: N/A | | |
| ISSUE DATE: 05/21/2002 | | |
| DATE REV. | | |
| PROJ. TITLE: R2-TM TILL | | |

SEE PLAT 11



SEE PLAT 13

RECORDERS MEMORANDUM
All or parts of the text on this page was not clearly legible for satisfactory recording.

--Proprietary--
Not for disclosure outside Southwestern Bell Telephone Company except under written agreement.

| | | |
|------------------------------|----------|------------------|
| SPECIAL CIRCUITS N | | |
| 6203 FORWARDED N | | |
| PERMIT REQUIRED Y | | NORTH ARROW |
| COUNTY | | |
| OPERATING RANGE OF JOB STEPS | | |
| LINE | | TO |
| SPLICE | | TO |
| MFR: 961C | | |
| TRANSMISSION ZONE | | |
| RZ 0 | CZ 0 | TAPER CODE 41202 |
| CAUTION HIGH VOLTAGE | | |
| KV 0.00 | AERIAL N | BURIED N |
| POLE CONTACTS (+) 0 (-) 0 | | |
| PWR CO | | |
| NOTES | | |
| PROJECT NO 4974880 | | |
| TOT PRINTS 15 PRINT NO. 12 | | |
| NPA/NNX: 512-32 PRT: 512352 | | |
| EXCH. IATLDR | | |
| TAX DIST. W024 CMC W020 | | |
| GEO LOC. Y14000 | | |
| ENGR. G02 DRAWN F | | |
| TELEPHONE NO. (254) 773-6549 | | |
| REC. REF. TOLL-RECORDS | | |
| MAP REF. | | |
| SCALE 1:100 | | |
| ISSUE DATE 06/21/2002 | | |
| DATE REV. | | |
| PROJ TITLE RR-TAT T01 | | |

Consent Agenda

The Consent Agenda includes non-controversial and routine items that the Court may act on with one single vote. The Judge or a Commissioner may pull any item from the Consent Agenda in order that the court discuss and act upon it individually as part of the Regular Agenda.

(Items 5- 20)

AGENDA ITEM 5**Consider approving a line item transfer for ITS:**

| | | | |
|-------|------------------|------------------------|-----------|
| From: | 0100-0503-005741 | Computer Software >500 | 20,000.00 |
| | 0100-0503-003011 | Computer Software <500 | 5,000.00 |
| | 0100-0503-004100 | Professional Services | 15,000.00 |
| | 0100-0503-004505 | Software Maintenance | 20,000.00 |
| | 0100-0503-005700 | Vehicles | 10,000.00 |
| To: | 0100-0503-004213 | Web Page Setup | 60,000.00 |
| | 0100-0503-003115 | Computer Supplies | 5,000.00 |
| | 0100-0503-004544 | Repairs to Equipment | 5,000.00 |

Moved: **Commissioner Heiligenstein**

Seconded: **Commissioner Boatright**

Motion: To approve a line item transfer for ITS:

| | | | |
|-------|------------------|------------------------|-----------|
| From: | 0100-0503-005741 | Computer Software >500 | 20,000.00 |
| | 0100-0503-003011 | Computer Software <500 | 5,000.00 |
| | 0100-0503-004100 | Professional Services | 15,000.00 |
| | 0100-0503-004505 | Software Maintenance | 20,000.00 |
| | 0100-0503-005700 | Vehicles | 10,000.00 |
| To: | 0100-0503-004213 | Web Page Setup | 60,000.00 |
| | 0100-0503-003115 | Computer Supplies | 5,000.00 |
| | 0100-0503-004544 | Repairs to Equipment | 5,000.00 |

Vote: **4 - 0**

< Attachment >