

OTB
 JUNE 2014

**FOREST HILL WATERMAIN
 REPLACEMENT PROJECT**

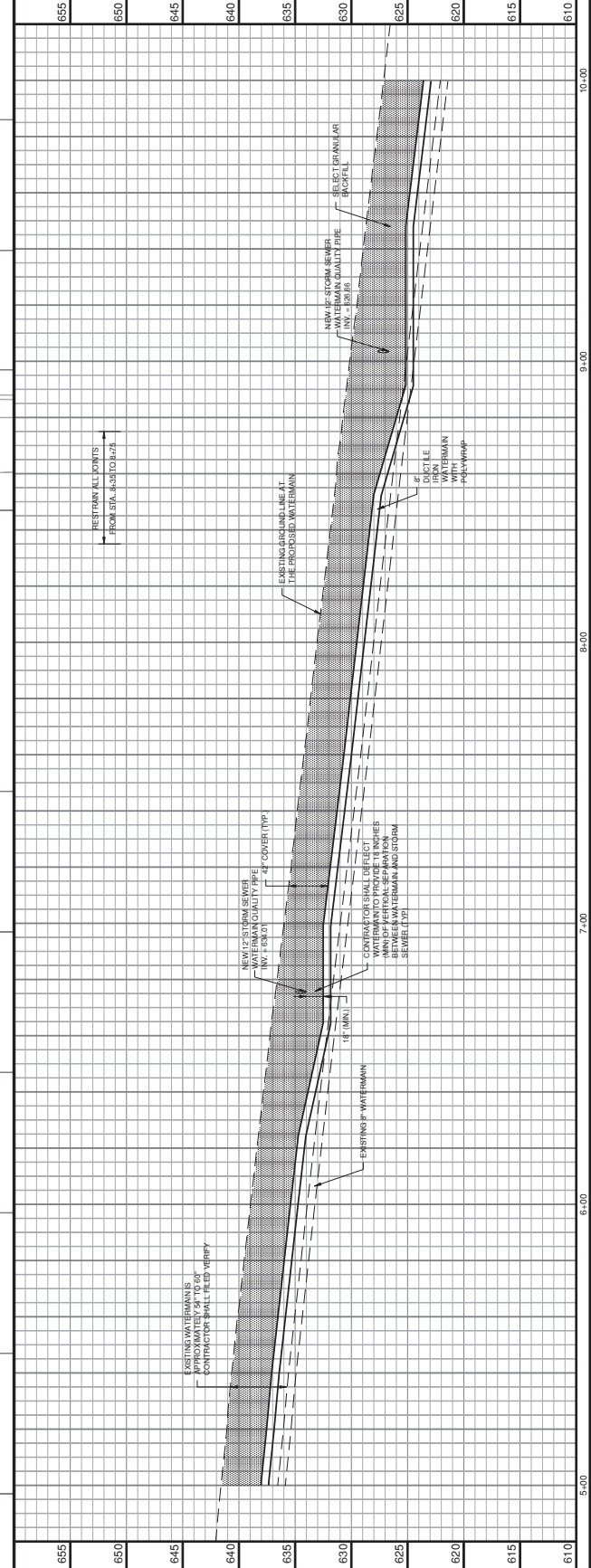
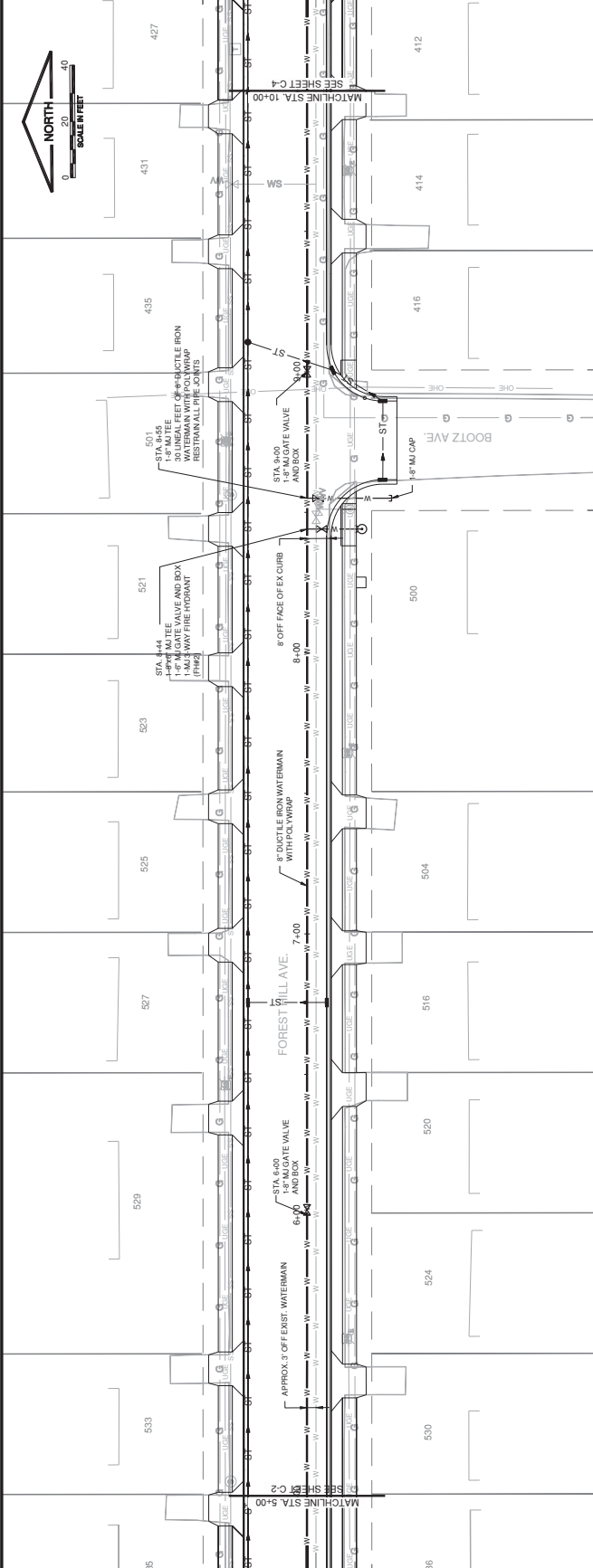
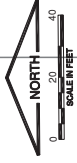
OWNER
AMERICAN WATER

ILLINOIS AMERICAN WATER
 PEORIA, ILLINOIS

| | |
|--------------|-------------------------------------|
| PROJECT NO. | 140770100-02 |
| CAD DWG FILE | 140770100-02_C7.DWG |
| DESIGNED BY | SJD |
| DRAWN BY | DJB |
| CHECKED BY | MJB |
| APPROVED BY | SJD |
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SHEET TITLE
**WATERMAIN STA.
 5+00 TO STA. 10+00**

C-3
 OF



CONSULTANTS

OTB
 JUNE 2014

**FOREST HILL WATERMAIN
 REPLACEMENT PROJECT**

OWNER



AMERICAN WATER

ILLINOIS AMERICAN WATER
 PEORIA, ILLINOIS

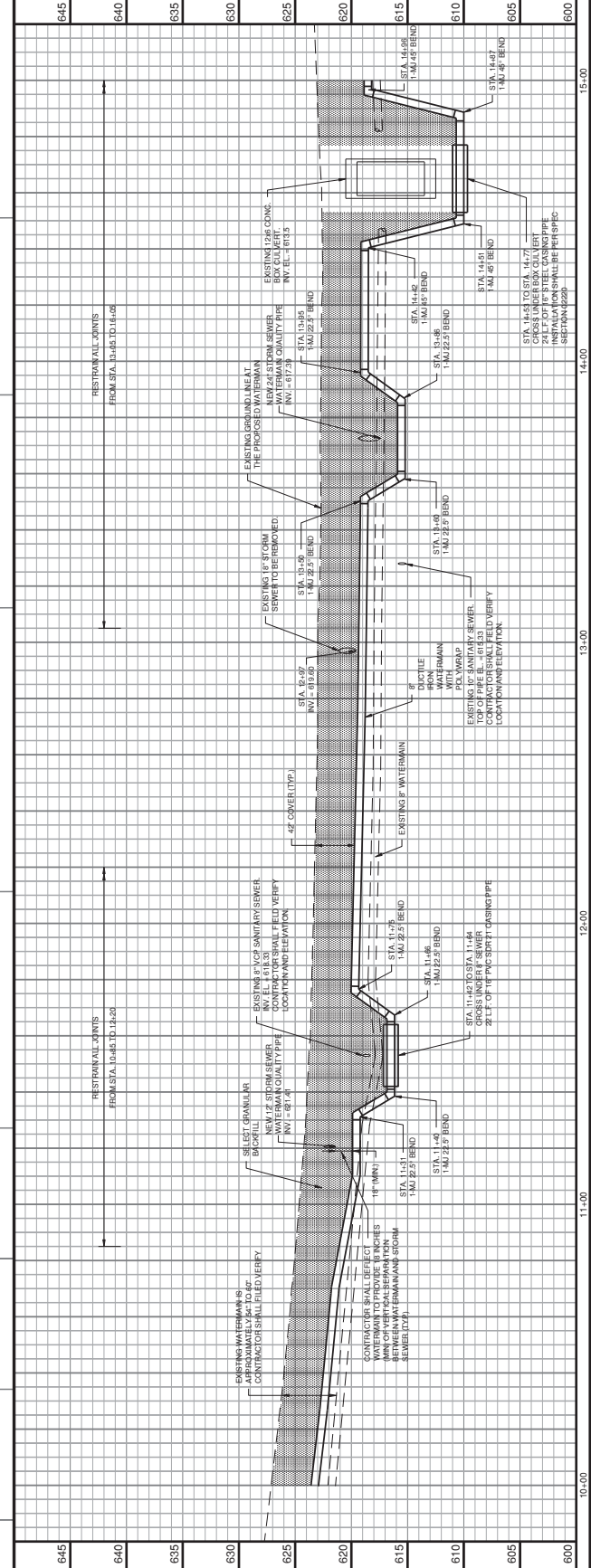
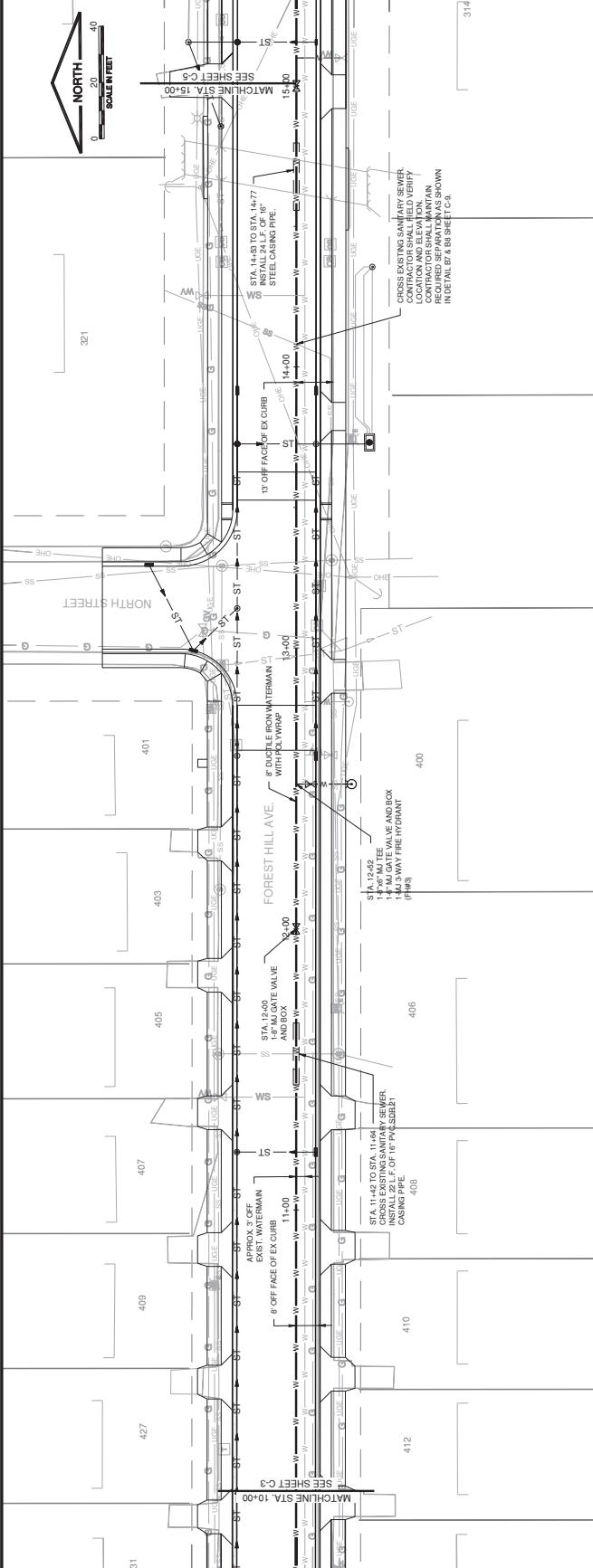
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|--|----------------------|-------------|
| PROJECT NO. | 140770100 | |
| CAD/DWG FILE | 140770100-2 - C7.DWG | |
| DESIGNED BY | SD | |
| DRAWN BY | DLB | |
| CHECKED BY | MB | |
| APPROVED BY | SD | |
| COPYRIGHT: CRAWFORD, MURPHY & TILLY, INC. 2014 | | |

SHEET TITLE

**WATERMAIN STA.
 10+00 TO STA. 15+00**

C-4
 OF

SHEET



OTB
 JUNE 2014

**FOREST HILL WATERMAIN
 REPLACEMENT PROJECT**

OWNER



AMERICAN WATER

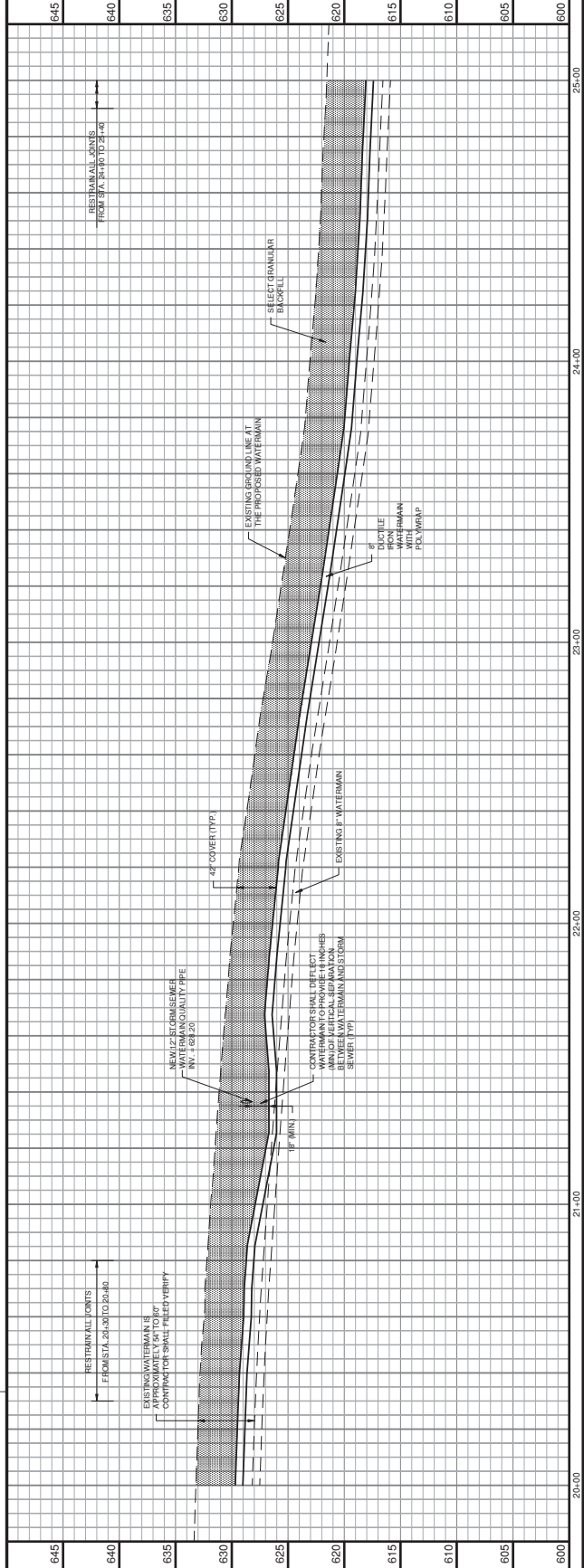
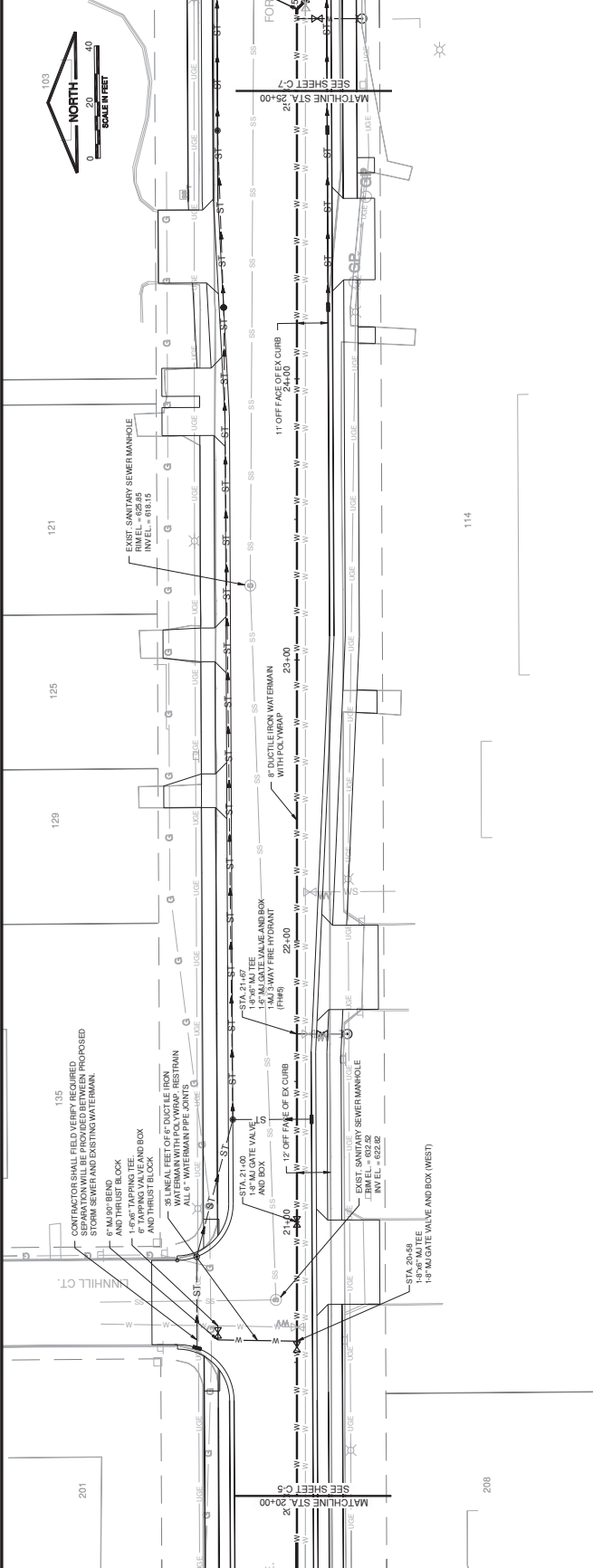
ILLINOIS AMERICAN WATER
 PEORIA, ILLINOIS

| MARK | DATE | DESCRIPTION |
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| PROJECT NO. | 14077-01-00 | |
| CAD/DWG FILE | 140770100-C-2-C-7.DWG | |
| DESIGNED BY | SJD | |
| DRAWN BY | DJB | |
| CHECKED BY | MJB | |
| APPROVED BY | SJD | |
| COPYRIGHT | CRAWFORD, MURPHY & TILLY, INC. 2014 | |

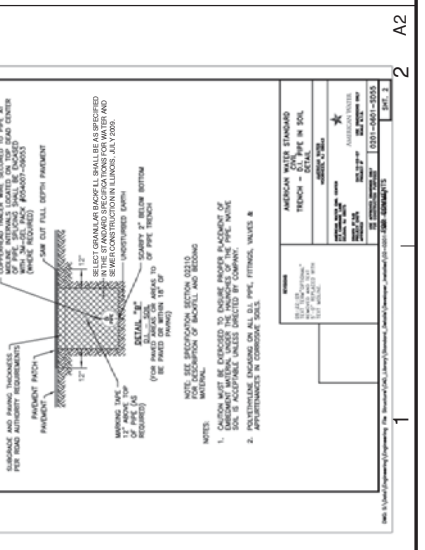
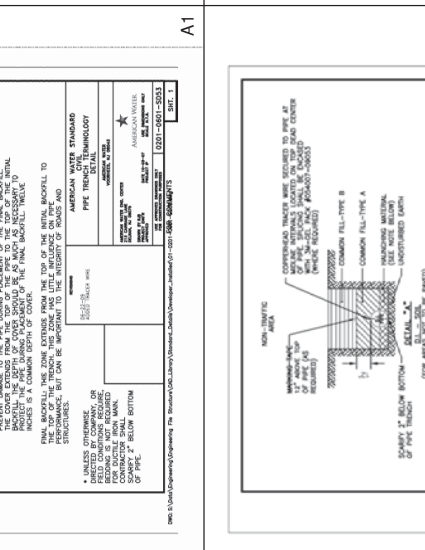
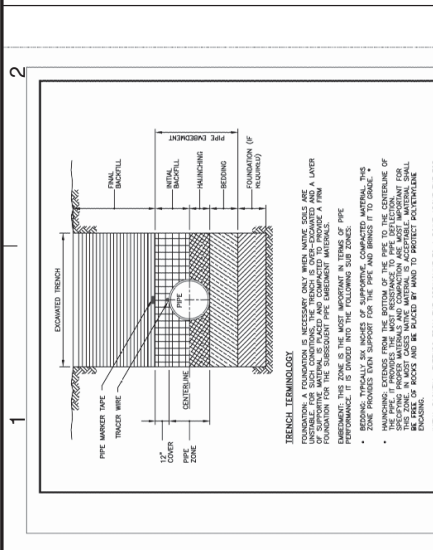
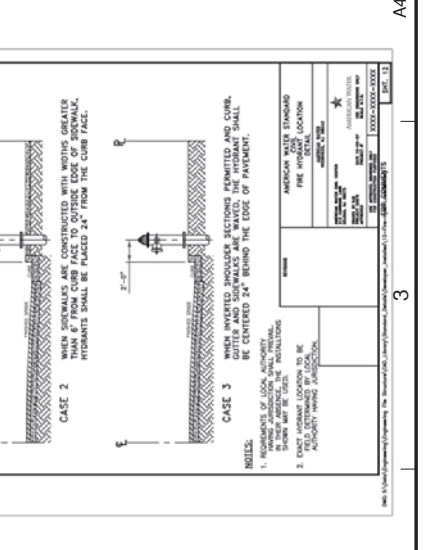
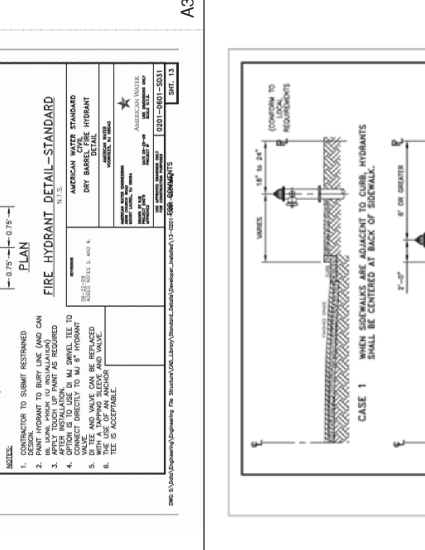
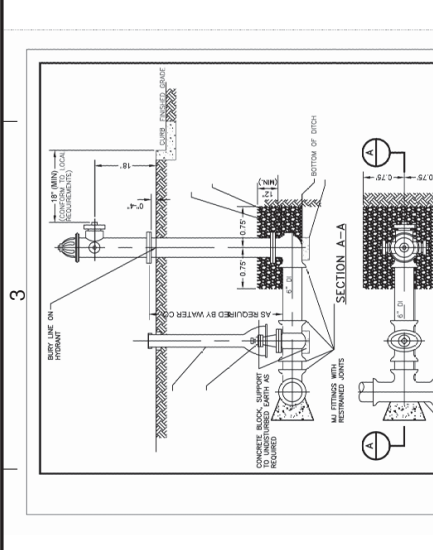
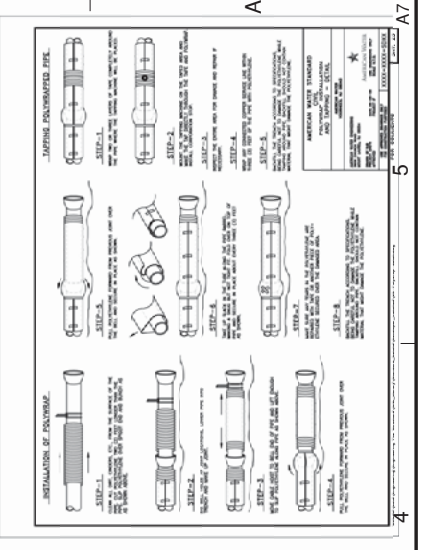
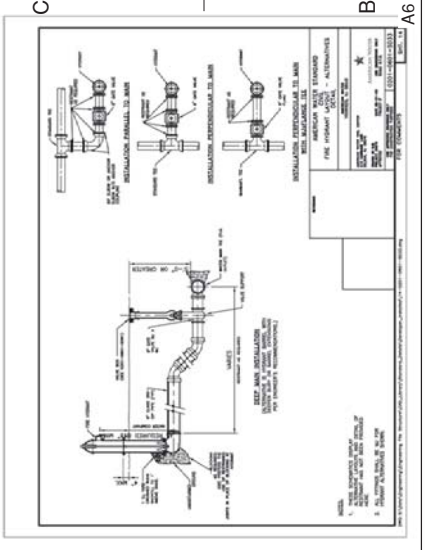
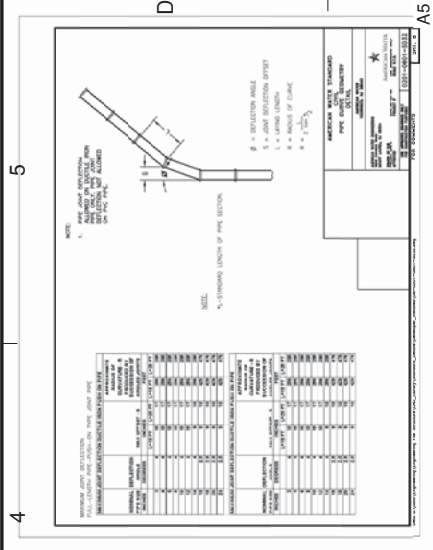
SHEET TITLE

**WATERMAIN STA.
 20+00 TO STA. 25+00**

C-6
 OF



| | |
|--------------|-------------------------------------|
| PROJECT NO. | 14577-01-00 |
| CAD DWG FILE | 145770100-0-8.DWG |
| DESIGNED BY | SJD |
| CHECKED BY | MJB |
| DRAWN BY | DJB |
| APPROVED BY | SJD |
| COPYRIGHT | CRAWFORD, MURPHY & TILLY, INC. 2014 |



OTB
 JUNE 2014

FOREST HILL WATERMAIN
 REPLACEMENT PROJECT

OWNER



AMERICAN WATER

ILLINOIS AMERICAN WATER
 PEORIA, ILLINOIS

PROJECT NO.: 14267-01-00

DESIGNED BY: SLD

DRAWN BY: DUB

CHECKED BY: MJB

APPROVED BY: SLD

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SHEET TITLE

CONSTRUCTION
 DETAILS - 02

C-9
 OF

SECTION 5

REVISIONS

DETAILS

SECTION 5 - THREAT BLOCKS

1. COVER OVER TOP OF PIPE SHALL BE EQUAL TO MINIMUM OF 30" MINIMUM FROM THE CENTERLINE OF THE PIPE TO THE EXISTING GRADE. THE EXISTING GRADE SHALL BE MAINTAINED OR RECONSTRUCTED TO THE ORIGINAL GRADE. THE EXISTING GRADE SHALL BE MAINTAINED OR RECONSTRUCTED TO THE ORIGINAL GRADE. THE EXISTING GRADE SHALL BE MAINTAINED OR RECONSTRUCTED TO THE ORIGINAL GRADE.

2. THREAT BLOCKS SHALL BE BUILT AGAINST EXISTING SOIL WITH ADEQUATE BACKFILL TO PREVENT MOVEMENT OF FITTING.

3. NO THREAT BLOCKS TO BE PLACED IN SERIES LATERAL SIZES.

4. THREAT BLOCKS TO BE PLACED IN SERIES LATERAL SIZES. THE THREAT BLOCKS TO BE PLACED IN SERIES LATERAL SIZES. THE THREAT BLOCKS TO BE PLACED IN SERIES LATERAL SIZES.

5. BASED ON 300 PSI (100 PSI STATIC PRESTRESS PLUS 90 PSI WATER PRESSURE) AND 3000 PSI SOIL BEARING.

6. DIMENSIONAL REQUIREMENTS ON ALL D.I. END AND FITTINGS.

7. PIPE JOINTS AND ELBOWS MUST BE ACCESSIBLE.

8. FUTURE MAINTENANCE ACCESS BETWEEN CONCRETE AND ROCKS FOR ALL ACCESSIBLE JOINTS SHALL BE CONCRETE MINIMUM 17" WIDEST. CONCRETE SHALL BE PLACED AGAINST EXISTING BACKFILL. THE CONCRETE SHALL BE PLACED AGAINST EXISTING BACKFILL. THE CONCRETE SHALL BE PLACED AGAINST EXISTING BACKFILL.

9. ALL MAIN LINE FITTINGS AND ELBOWS SHALL BE PLACED AGAINST EXISTING BACKFILL. THE CONCRETE SHALL BE PLACED AGAINST EXISTING BACKFILL. THE CONCRETE SHALL BE PLACED AGAINST EXISTING BACKFILL.

10. ALL MAIN LINE FITTINGS AND ELBOWS SHALL BE PLACED AGAINST EXISTING BACKFILL. THE CONCRETE SHALL BE PLACED AGAINST EXISTING BACKFILL. THE CONCRETE SHALL BE PLACED AGAINST EXISTING BACKFILL.

11. THREAT BLOCKS SHALL BE BUILT AGAINST EXISTING SOIL WITH ADEQUATE BACKFILL TO PREVENT MOVEMENT OF FITTING.

12. IN SOME CASES, ADDITIONAL TREATMENT MAY BE REQUIRED.

13. FOR UNUSUAL SOIL CONDITIONS, CHECK WITH ENGINEER FOR THREAT BLOCK DIMENSIONS.

14. DIMENSIONS SHALL BE GREATER THAN 18". SEE ENGINEER FOR THREAT BLOCK DIMENSIONS.

AMERICAN WATER STANDARD
THREAT BLOCK

FOR COMMENTS

DATE: 06/11/14
 DRAWN BY: DUB
 CHECKED BY: MJB
 APPROVED BY: SLD

SECTION 3

DETAILS

SECTION 3 - THREAT BLOCKS

1. IF THE EXISTING TOWN GRADLE IS DAMAGED OR REMOVED DURING CONSTRUCTION, THE EXISTING GRADE SHALL BE MAINTAINED OR RECONSTRUCTED TO THE ORIGINAL GRADE. THE EXISTING GRADE SHALL BE MAINTAINED OR RECONSTRUCTED TO THE ORIGINAL GRADE. THE EXISTING GRADE SHALL BE MAINTAINED OR RECONSTRUCTED TO THE ORIGINAL GRADE.

2. THE CONCRETE COLLAR SHALL BE FORMED AT A JOINT WITH THE EXISTING HOUSE LATERAL USING FLEXIBLE JOINTS.

3. THE REPLACEMENT SECTION SHALL BE TYPED 300 INCHES WITH 300 PSI WATER PRESSURE AND 3000 PSI SOIL BEARING. THE REPLACEMENT SECTION SHALL BE TYPED 300 INCHES WITH 300 PSI WATER PRESSURE AND 3000 PSI SOIL BEARING. THE REPLACEMENT SECTION SHALL BE TYPED 300 INCHES WITH 300 PSI WATER PRESSURE AND 3000 PSI SOIL BEARING.

4. THE EXISTING TOWN GRADLE IS DAMAGED OR REMOVED DURING CONSTRUCTION, THE EXISTING GRADE SHALL BE MAINTAINED OR RECONSTRUCTED TO THE ORIGINAL GRADE. THE EXISTING GRADE SHALL BE MAINTAINED OR RECONSTRUCTED TO THE ORIGINAL GRADE. THE EXISTING GRADE SHALL BE MAINTAINED OR RECONSTRUCTED TO THE ORIGINAL GRADE.

AMERICAN WATER STANDARD
THREAT BLOCK

FOR COMMENTS

DATE: 06/11/14
 DRAWN BY: DUB
 CHECKED BY: MJB
 APPROVED BY: SLD

SECTION 2

DETAILS

SECTION 2 - THREAT BLOCKS

1. ALL PIPE TO BE JOINT RETURNERS.

2. PIPE IS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

3. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

4. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

5. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

AMERICAN WATER STANDARD
THREAT BLOCK

FOR COMMENTS

DATE: 06/11/14
 DRAWN BY: DUB
 CHECKED BY: MJB
 APPROVED BY: SLD

SECTION 4

DETAILS

SECTION 4 - THREAT BLOCKS

1. ALL PIPE TO BE JOINT RETURNERS.

2. PIPE IS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

3. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

4. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

5. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

AMERICAN WATER STANDARD
THREAT BLOCK

FOR COMMENTS

DATE: 06/11/14
 DRAWN BY: DUB
 CHECKED BY: MJB
 APPROVED BY: SLD

SECTION 3

DETAILS

SECTION 3 - THREAT BLOCKS

1. ALL PIPE TO BE JOINT RETURNERS.

2. PIPE IS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

3. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

4. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

5. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

AMERICAN WATER STANDARD
THREAT BLOCK

FOR COMMENTS

DATE: 06/11/14
 DRAWN BY: DUB
 CHECKED BY: MJB
 APPROVED BY: SLD

SECTION 2

DETAILS

SECTION 2 - THREAT BLOCKS

1. ALL PIPE TO BE JOINT RETURNERS.

2. PIPE IS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

3. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

4. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

5. ALL JOINTS TO BE CASTLE END, MINIMUM PRECAST CLASS 300.

AMERICAN WATER STANDARD
THREAT BLOCK

FOR COMMENTS

DATE: 06/11/14
 DRAWN BY: DUB
 CHECKED BY: MJB
 APPROVED BY: SLD