

**SPECIFICATIONS
AND
CONTRACT DOCUMENTS**

FOR

**ANNUAL REQUIREMENTS CONTRACT
FOR
WATER, WASTEWATER, NATURAL GAS AND
GENERAL (SITE RELATED) SYSTEMS
2026**

**(VOLUME III OF III)
DRAWINGS**

**CITY OF ALEXANDRIA, LOUISIANA
(OWNER)**

UTILITIES DIVISION

**MAYOR
JACQUES M. ROY**

**COUNCIL MEMBERS
LIZZIE FELTER
CHARLES I. "CHUCK" FOWLER, JR.
JULES R. GREEN
GARY JOHNSON
MALCOLM LARVADAIN
CYNTHIA PERRY
JAMES "JIM" VILLARD**

AUGUST 2026

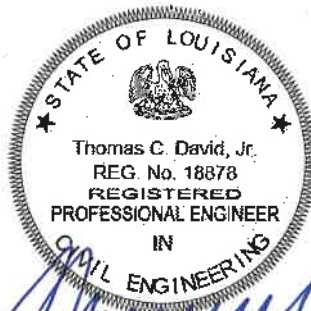
**PAN AMERICAN ENGINEERS, LLC
1717 JACKSON STREET (71301)
P. O. BOX 8599 (71306)
ALEXANDRIA, LOUISIANA
(318) 473-2100
PAE JOB NO. 11461**

The following Contract Documents and Technical Specifications have been prepared under my direct supervision and guidance in conjunction with the Plans and for the explicit use by the Owner and Contractors for the bidding and construction of the project:

CITY OF ALEXANDRIA, LOUISIANA

ANNUAL REQUIREMENTS CONTRACT
FOR
WATER, WASTEWATER, NATURAL GAS AND
GENERAL (SITE RELATED) SYSTEMS
2026

**CONSTRUCTION SPECIFICATIONS
DISCIPLINE LEAD SIGNATURES**



Thomas C. David, Jr.

7-28-2024

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
FOR
WATER, WASTEWATER, NATURAL GAS AND
GENERAL (SITE RELATED) SYSTEMS
2026

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CITY OF ALEXANDRIA, LOUISIANA
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PART 8 - DRAWINGS

Section 08000 - DRAWINGS

SECTION 08000DRAWINGSPART 1 - GENERAL

- 1.1 Scope: This section describes Standard Detail Drawings prepared for this project as follows:

STANDARD DETAILS

ANNUAL REQUIREMENTS CONTRACT FOR
WATER, WASTEWATER, NATURAL GAS AND GENERAL (SITE RELATED) SYSTEMS
2026

CITY OF ALEXANDRIA "COA"
 PAN AMERICAN ENGINEERS "PAE"

Sheet No.	Sheet Title	Description
1	COA WT-01	DOMESTIC WATER
2	COA WT-02	DOMESTIC WATER
3	COA WT-03	DOMESTIC WATER
4	COA WT-04	DOMESTIC WATER
5	COA WT-05	DOMESTIC WATER
6	COA WT-06	DOMESTIC WATER
7	COA WT-07	DOMESTIC WATER
8	PAE WATER 1	DOMESTIC WATER
9	PAE WATER 2	DOMESTIC WATER
10	PAE WATER 3	DOMESTIC WATER
11	PAE WATER 4	DOMESTIC WATER
12	PAE WATER 5	DOMESTIC WATER
13	PAE WATER 6	DOMESTIC WATER
14	COA SS-01	SANITARY SEWER
15	COA SS-03	SANITARY SEWER
16	COA SS-04	SANITARY SEWER
17	PAE SEWER1	SANITARY SEWER
18	PAE SEWER 2	SANITARY SEWER
19	PAE SEWER 3	SANITARY SEWER
20	PAE SEWER 4	SANITARY SEWER
21	COA GS-1	NATURAL GAS
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25	COA FC-01	CHAIN LINK FENCE
26	COA FW-01	WOOD FENCE
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PART 2 - PRODUCTS (NOT USED)PART 3 - EXECUTION

3.1 The WORK shall conform to the Standard Detail Drawings and Specifications prepared by the ENGINEER. The WORK shall conform to such Drawings relating to the project as exhibited by the OWNER and the ENGINEER prior to the opening of proposal. The WORK shall also conform to such Drawings and Specifications as may be furnished from time to time during construction, including changes of detail as the ENGINEER may consider necessary because of conditions that are found to exist during construction.

PART 4 - MEASUREMENT AND PAYMENT (NOT USED)

- END OF SECTION -



THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF PAN AMERICAN ENGINEERS, LLC. IT IS TO BE USED ONLY FOR THE PROJECT AND LOCATION SPECIFICALLY IDENTIFIED ON THE PROJECT'S "PROJECT LOCATION" MAP. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PAN AMERICAN ENGINEERS, LLC.

☒ THIS DRAWING IS APPROVED FOR CONSTRUCTION.
☐ THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION.

DRAWN BY: P.A.E.
DATE: 8/26

REVISION	DATE
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	11467

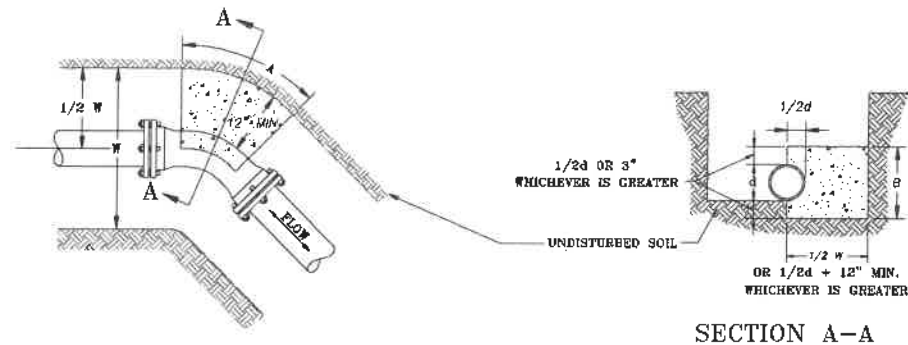
DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
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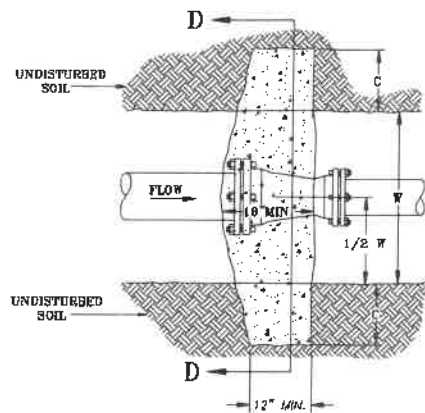
SHEET NUMBER
1
OF 29

SCHEDULE OF DIMENSIONS FOR MASS CONCRETE THRUST BLOCKS (FOR 2000 P.S.F. SOIL)

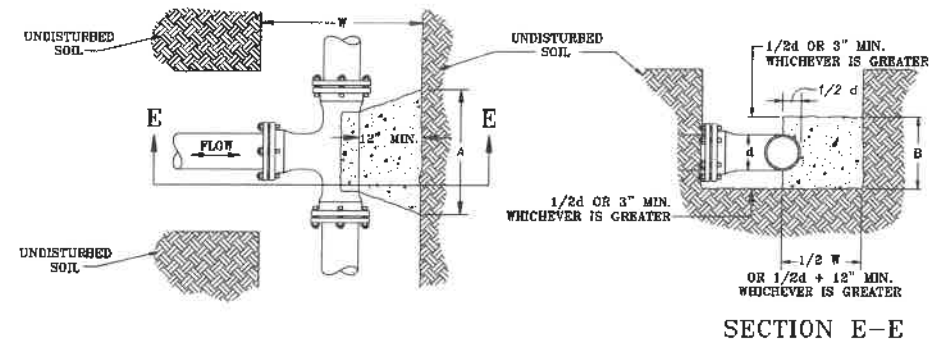
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	90°	45°	22 1/2°		11 1/4°		90°	45°	22 1/2°		11 1/4°		90°	45°	22 1/2°		11 1/4°															
TYPICAL DIMENSION	A	B	A	B	A	B	A	B	A	B	A	B	A	B	V	BA	REIN.	V	BA	REIN.	V	BA	REIN.	V	BA	REIN.	A	B		B	C	
PIPE SIZE	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	FT.-IN.	CU. YDS.	SQ. FT.	RODS	CU. YDS.	SQ. FT.	RODS	CU. YDS.	SQ. FT.	RODS	CU. YDS.	SQ. FT.	RODS	FT.-IN.	FT.-IN.		FT.-IN.	FT.-IN.
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3"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"	0'-9"	1'-6"	0'-9"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"	1	2	1-#3	0.5	1	1-#3	0.25	1	1-#3	1'-6"	1'-0"	8" X 6"	1'-4"	1'-0"	1'-0"	1'-0"	
4"	2'-0"	0'-10"	1'-0"	0'-10"	1'-0"	0'-10"	1'-0"	0'-10"	2'-0"	0'-11"	1'-6"	0'-11"	1'-6"	0'-11"	1'-0"	1	2	1-#4	0.5	1	1-#4	0.25	1	1-#4	1'-6"	1'-0"	10" X 6"	1'-8"	1'-0"	1'-0"	1'-0"	
6"	2'-8"	1'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	1'-3"	2'-0"	1'-3"	1'-6"	1'-3"	1'-6"	2	4	2-#4	1	2	1-#4	0.5	1	1-#4	2'-6"	1'-0"	10" X 8"	1'-8"	1'-0"	1'-0"	1'-0"	
8"	3'-6"	1'-4"	2'-6"	1'-4"	2'-0"	1'-4"	1'-0"	1'-4"	3'-0"	1'-10"	2'-6"	1'-10"	2'-0"	1'-10"	2'-0"	3.25	0.25	4-#4	2	4	2-#4	1	2	1-#4	0.5	1	1-#4	3'-0"	1'-6"	12" X 6"	2'-0"	2'-0"
10"	4'-0"	1'-6"	3'-0"	1'-8"	2'-0"	1'-8"	1'-0"	1'-8"	3'-6"	2'-2"	3'-0"	2'-2"	2'-6"	2'-2"	2'-0"	5	10	5-#4	3	6	3-#4	1.5	3	1-#5	0.75	2	1-#4	3'-8"	2'-0"	12" X 8"	2'-0"	1'-6"
12"	5'-0"	2'-0"	4'-0"	2'-0"	2'-0"	2'-0"	1'-0"	2'-0"	4'-0"	2'-6"	3'-6"	2'-6"	2'-6"	2'-6"	2'-0"	7.25	15	5-#5	4	8	4-#4	2	4	2-#4	1	2	1-#4	4'-0"	2'-6"	12" X 10"	2'-0"	1'-0"



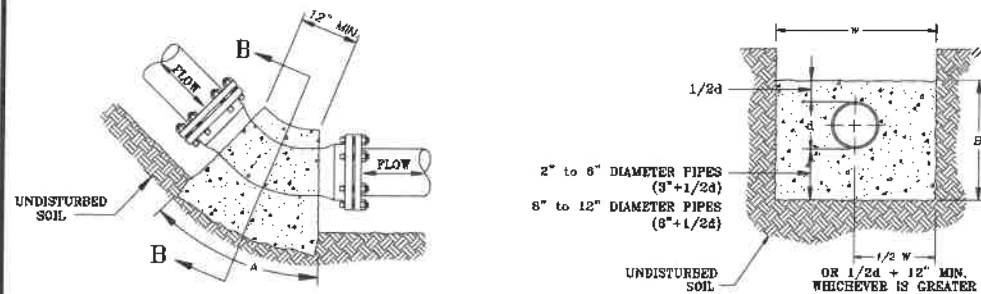
PLAN - HORIZONTAL BEND
THRUST BLOCKING



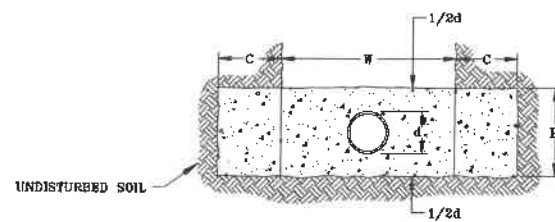
SECTION D-D
REDUCER
THRUST BLOCKING



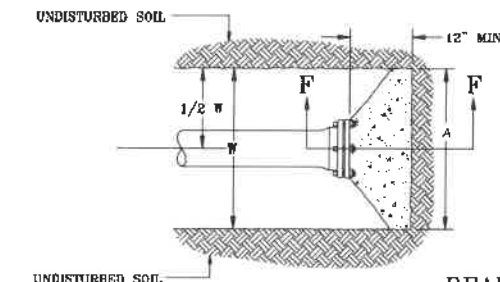
TEE
THRUST BLOCKING



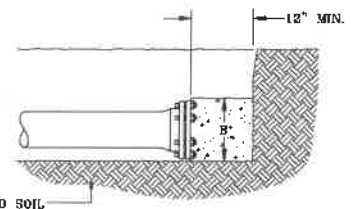
ELEVATION - VERTICAL UNDER BEND
THRUST BLOCKING



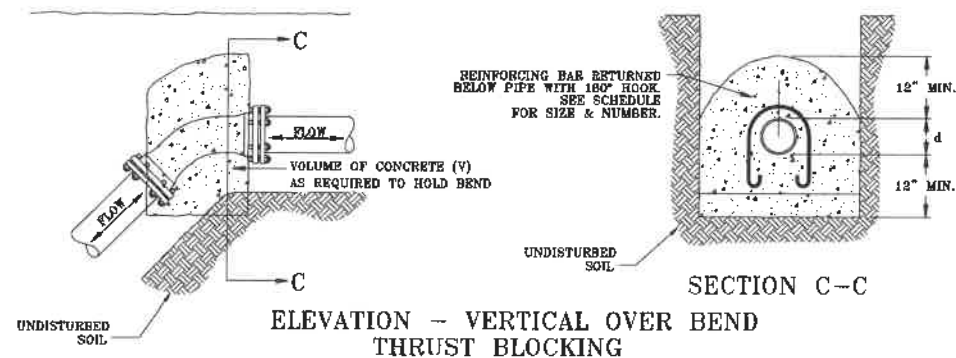
SECTION D-D
REDUCER
THRUST BLOCKING



DEAD END
THRUST BLOCKING



SECTION F-F



ELEVATION - VERTICAL OVER BEND
THRUST BLOCKING

NOTES

1. No special pay item for reinforcement rods required in overbends.
2. Size of tee refers to branch size.
3. Place reinforcement rods as shown in all concrete thrust blocks and over valves.
4. Volume of concrete for vertical overbends shall be sized for 100 P.S.I.
5. All ductile iron fittings shall be wrapped with an 8 mil. Polyethylene film.

LEGEND

W = DITCH WIDTH
d = INSIDE PIPE DIAMETER

THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER. I HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODE AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.

THOMAS C. DAVID, JR.
DATE: 7/1/26

COA WT-01

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



CALL LOUISIANA ONE CALL - JUST DIAL 811
LOUISIANA STATE LAW, SECTION 1749.1, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNER/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

THESE DRAWINGS DO NOT
INCLUDE COMPONENTS FOR
CONSTRUCTION SAFETY.

SCALE NOTE
SCALE BAR SHOWN IS ONE INCH
LONG AT FULL SCALE. WHEN
SCALING DRAWINGS, MEASURE
BAR TO DETERMINE IF SCALE
SHOWN WILL REQUIRE ADJUSTING



PAN AMERICAN ENGINEERS, LLC
P.O. BOX 88 / 1717 JACKSON STREET
ALEXANDRIA, LA.
71303



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DRAWN BY P.A.E.
DATE 8/26

REVISION DATE

CHECKED I.C.D.

BOOK NO. N/A

JOB NO. 11461

DWG. NO. 13406

SCALE NONE

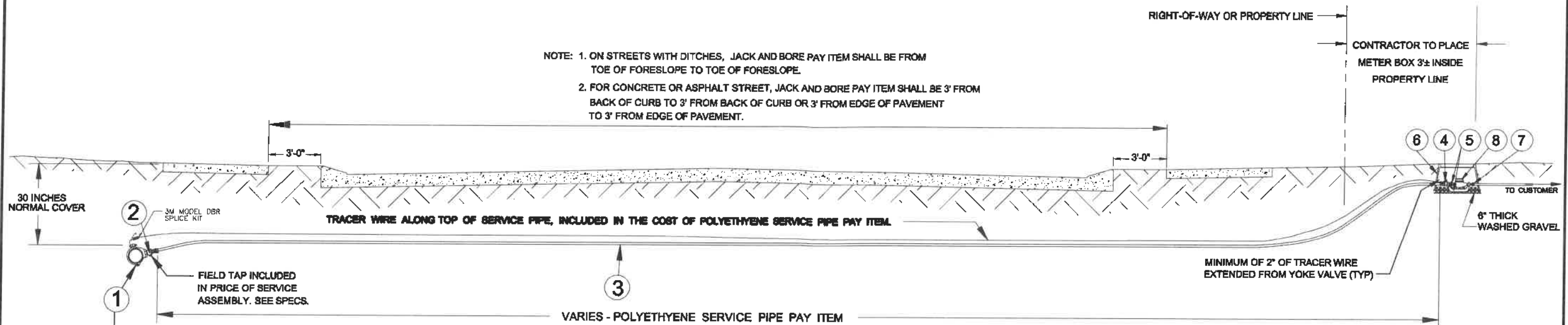
CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

OWNER
PROJECT

SHEET NUMBER

2
OF 29

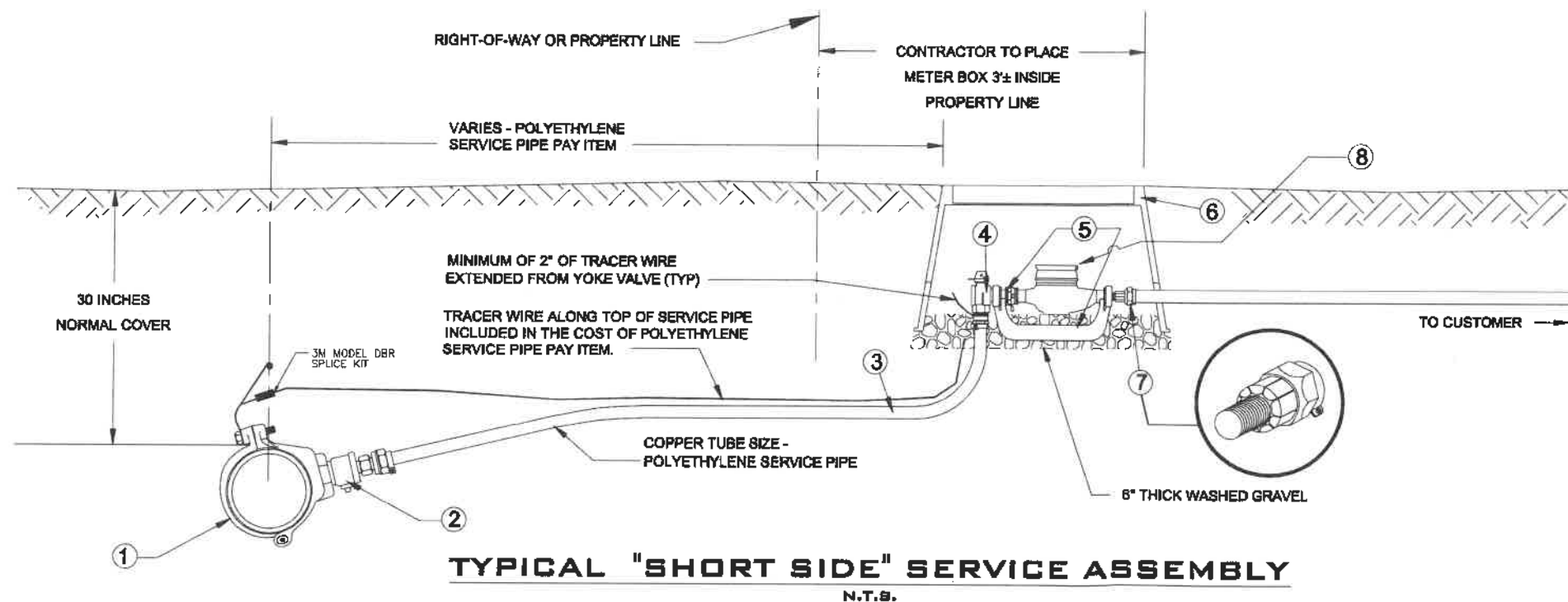
COA WT-02



TYPICAL "LONG SIDE" SERVICE ASSEMBLY

N.T.S.

ITEM	DESCRIPTION
1	BRONZE ALLOY SERVICE SADDLE
2	CORP. STOP WITH PACK JOINT OUTLET
3	PE 3408, (CTS), SDR-9 (SEE SPECS.)
4	STRAIGHT YOKE BALL VALVE
5	METER COUPLING AND YOKE
6	METER BOX
7	PACK JOINT COUPLING
8	METER TO BE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.



TYPICAL "SHORT SIDE" SERVICE ASSEMBLY

N.T.S.

ITEM	DESCRIPTION
1	BRONZE ALLOY SERVICE SADDLE
2	CORP. STOP WITH PACK JOINT OUTLET
3	PE 3408, (CTS), SDR-9 (SEE SPECS.)
4	ANGLE YOKE BALL VALVE
5	METER COUPLING AND YOKE
6	METER BOX
7	PACK JOINT COUPLING
8	METER TO BE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, I-ENGINEERED PROFESSIONAL ENGINEER. I HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODE AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.

Thomas C. David, Jr.
THOMAS C. DAVID, JR.
1/1/14
DATE

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



CALL LOUISIANA ONE CALL - JUST DIAL 811
LOUISIANA STATE LAW, SECTION R.S. 43:14915, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

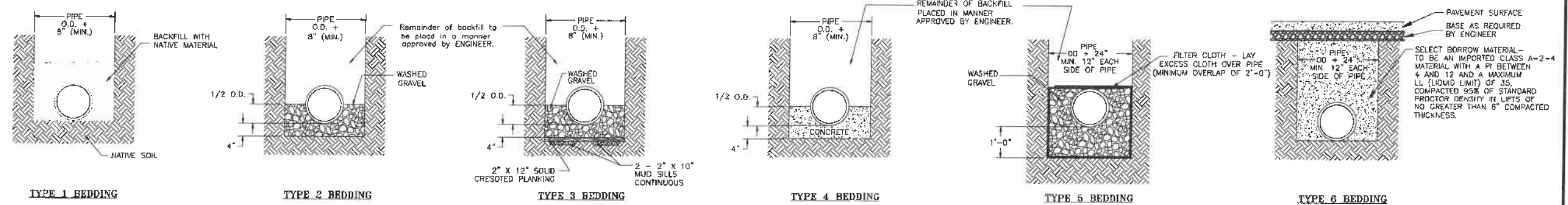
THESE DRAWINGS DO NOT INCLUDE COMPONENTS FOR CONSTRUCTION SAFETY.

SCALE NOTE
SCALE BAR SHOWN IS ONE INCH LONG AT FULL SCALE WHEN SCALING DRAWINGS. MEASURE BAR TO DETERMINE IF SCALE SHOWN WILL REQUIRE ADJUSTING.

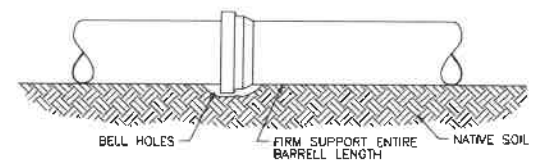
ONE INCH



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71308



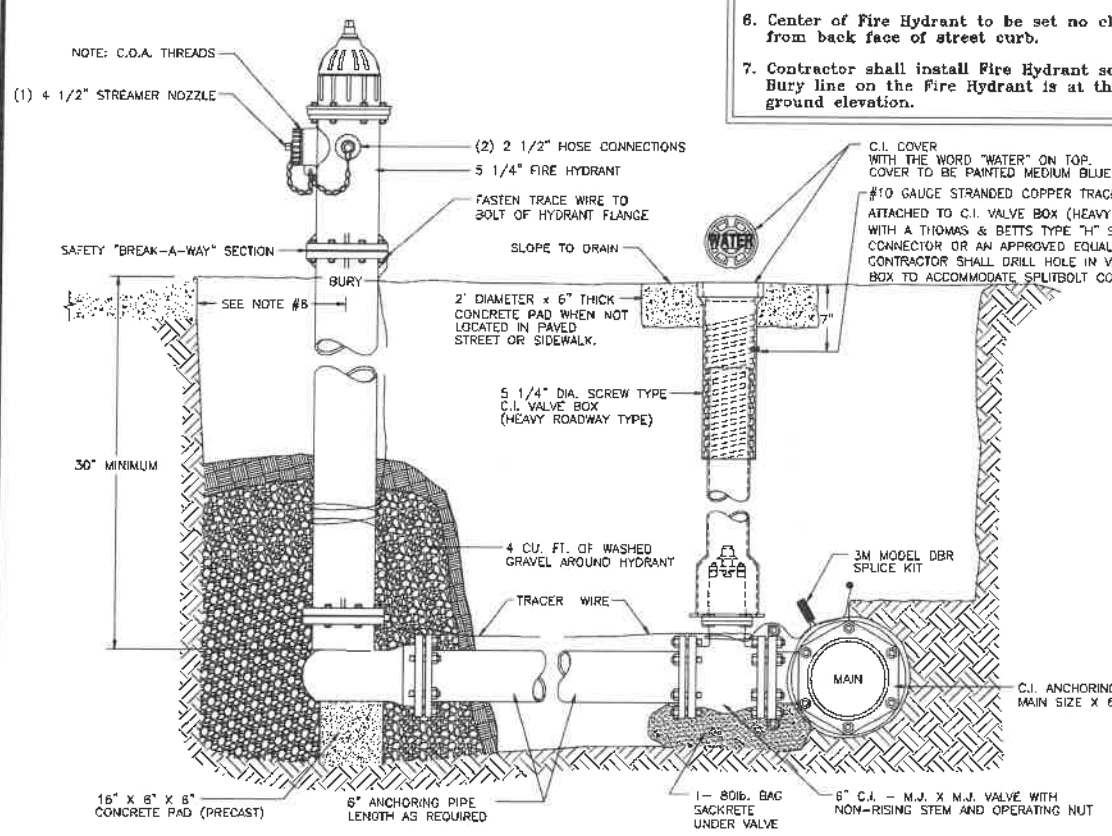
STANDARD PIPE FOUNDATION DETAILS FOR DUCTILE IRON, POLYVINYL CHLORINE (PVC) OR POLYETHYLENE (PE) PIPE N.T.S.



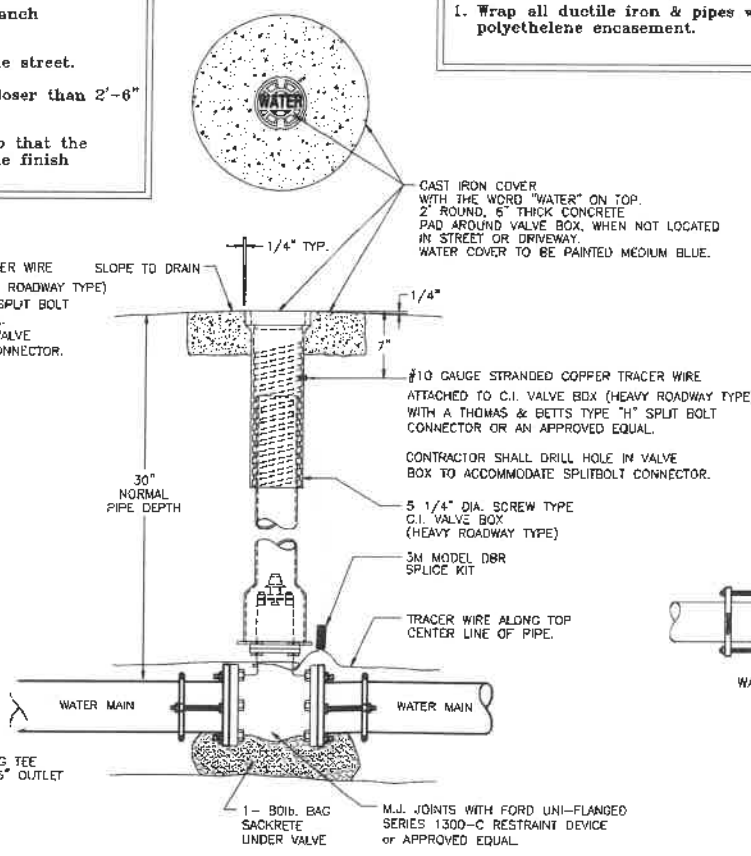
- FIRE HYDRANT AND GATE VALVE NOTES**
1. Wrap tracer wire around valve bolts and tighten nut to hold wire securely, two contacts each valve.
 2. 3M Model DBR Splice Kit, or approved equal, required at each splice of tracer wire.
 3. Non-corrosive 10 gauge stranded copper tracer wire required along top center line of all PVC or PE pipe.
 4. No bends permitted in the hydrant branch unless authorized by the Engineer.
 5. Streamer Nozzle to be faced toward the street.
 6. Center of Fire Hydrant to be set no closer than 2'-6" from back face of street curb.
 7. Contractor shall install Fire Hydrant so that the Bury line on the Fire Hydrant is at the finish ground elevation.

NOTE

1. Wrap all ductile iron & pipes with 6 mil. polyethylene encasement.

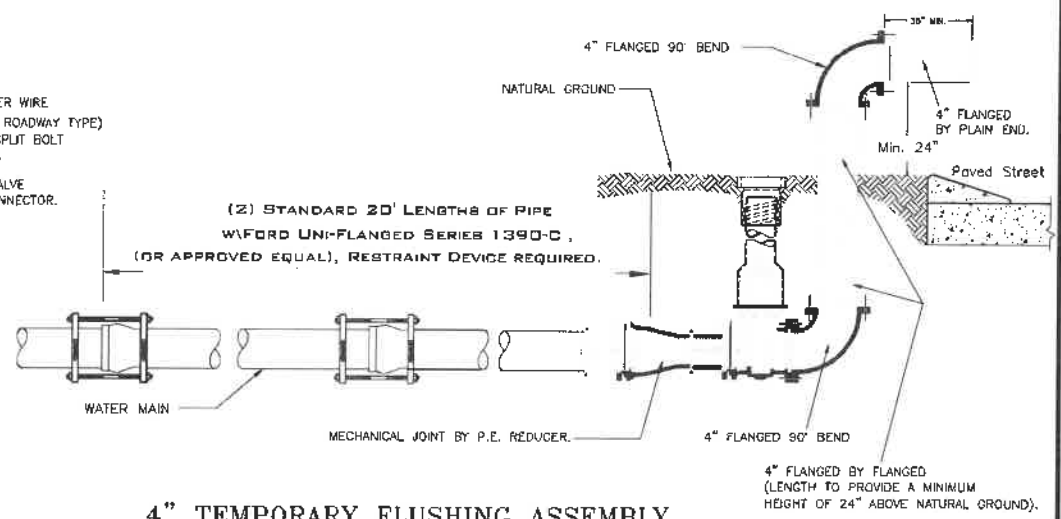


FIRE HYDRANT ASSEMBLY - TYPE II
N.T.S.



STANDARD GATE VALVE INSTALLATION DETAILS
N.T.S.

- 4" TEMPORARY FLUSHING ASSEMBLY**
1. Contractor to install water main size by 4" Mechanical Joint Reducer. Reducer shall be Mechanical joint by Plain End.
 2. Contractor shall install a water main size Ford Uni-Flange Series 1300-C, or approved equal, Restraint Device on the Mechanical Joint side of the Reducer. Also, Contractor shall install a 4" Ford Uni-Flange Series 1300-C, or approved equal, to connect plain end side of reducer to Gate Valve.
 3. Contractor may use AWWA C-900, DR-14 PVC pipe in lieu of Ductile Iron Flanged Pipe if Ford Uni-Flange Series 200 Adapter Flanges, or approved equal, are used for connection to the Flanged 90° Bends.
 4. If the Contractor elects to leave the Gate Valve exposed during the flushing procedures, the installation of a valve box may be eliminated.
 5. 4" Temporary Flushing assembly shall be removed when the water main is accepted by the CITY.
 6. After Flushing assembly is removed, Contractor shall install a water main size Mechanical Joint cap on the end of the water main. Contractor to use Ford Uni-Flange Series 1300-C, or approved equal, Restraint device to secure Mechanical Joint cap to water main.



4" TEMPORARY FLUSHING ASSEMBLY
N.T.S.

THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER, I HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODE AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.

Thomas C. David, Jr. 7/7/16
THOMAS C. DAVID, JR. DATE



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DRAWN BY P.A.E.
DATE 8/26

REVISION	DATE
CHECKED T.C.D.	
BOOK NO. N/A	
JOB NO. 11461	

DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

OWNER PROJECT

SHEET NUMBER
3
OF 29

COA WT-03

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



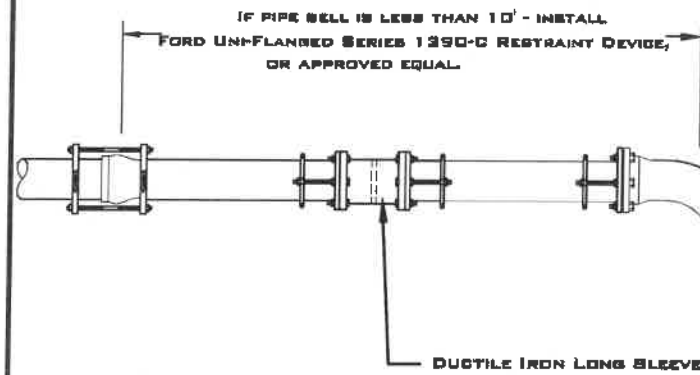
CALL LOUISIANA ONE CALL - JUST DIAL 811
LOUISIANA STATE LAW, SECTION R.S. 40:1749.15, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

THESE DRAWINGS DO NOT INCLUDE COMPONENTS FOR CONSTRUCTION SAFETY.

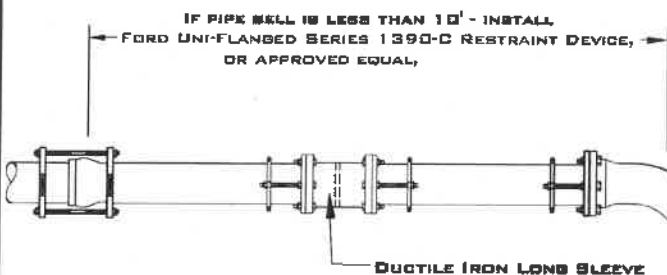
SCALE NOTE
SCALE BAR SHOWN IS ONE INCH LONG AT FULL SCALE WHEN SCALING DRAWINGS. MEASURE BAR TO DETERMINE IF SCALE SHOWN WILL REQUIRE ADJUSTING



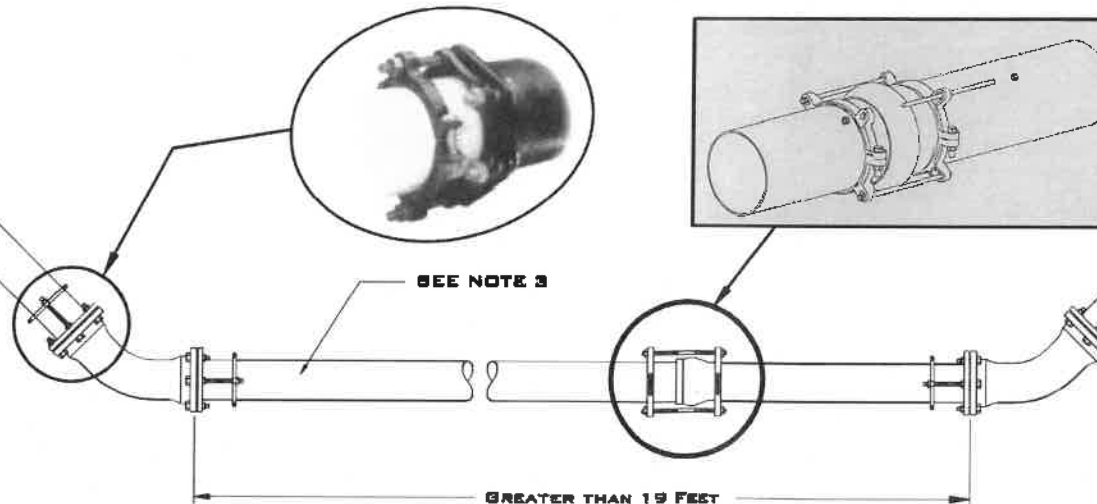
PAN AMERICAN ENGINEERS, LLC
P.O. BOX 69 / 1717 JACKSON STREET
ALEXANDRIA, LA. 71309



1. Each Mechanical Joint fitting and/or Restraint Device shall be wrapped in 8 mil. polyethylene encasement (polywrap).
2. Thrust blocking will not be required to restrain cast iron fittings that are installed for water line adjustment.
3. Contractor may use Polyethylene (PE) Pipe and Fittings to go under or around conflicts in lieu of Polyvinyl Chlorine (PVC) pipe with Restraint Device(s). Connector for Polyethylene (PE) Pipe to Mechanical Joint Fitting shall be a Ductile Iron Mechanical Joint Anchoring Kit manufactured by Independent Pipe Products (or approved equal) for 6" thru 12" Ductile Iron Pipe Size Polyethyenes (PE) Pipe.
4. Water line adjustment shall clear obstruction(s) by a distance of no less than one (1) foot - six (6) inches. Measurement shall be from outside face of obstruction to outside diameter of pipe being installed.
5. In checking location of existing pipe bells, Contractor shall only remove soil above the existing pipe. No soil may be removed from the side of the existing pipe.
6. Contractor shall install #10 gauge, Type TW stranded copper wire along the top of PVC or PE pipe for detection purposes.



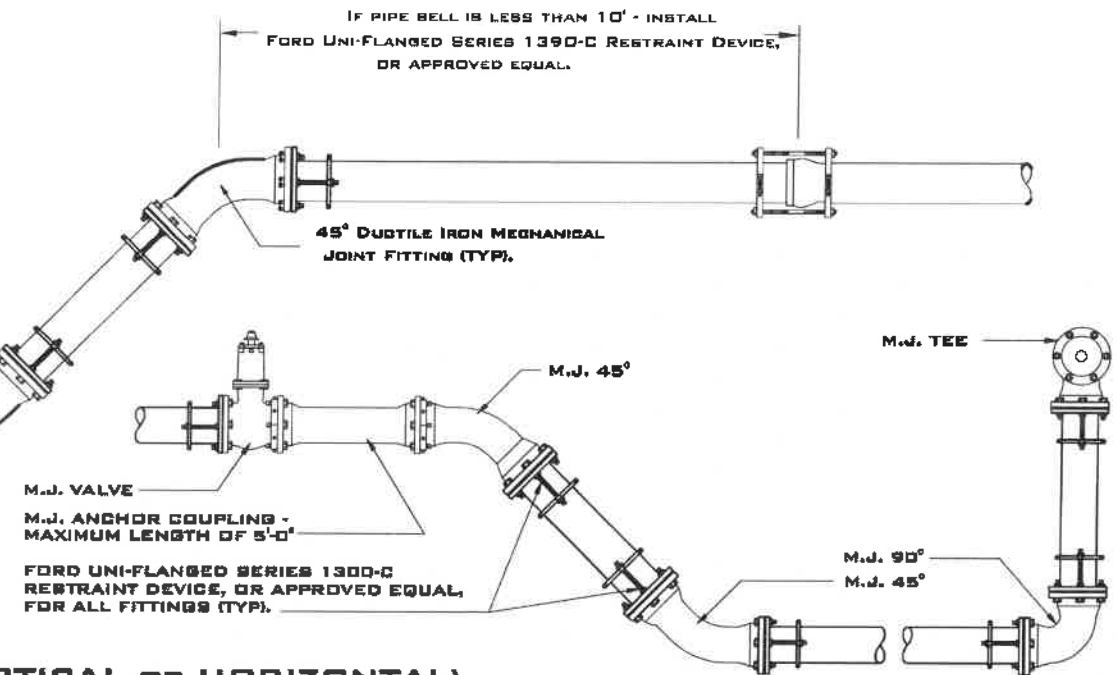
— SEE NOTE 3



DISTANCE BETWEEN MECHANICAL JOINT FITTINGS IS GREATER THAN 19 FEET

N.T.S.

N.T.S.



THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER. I HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODE AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.

THOMAS C. DAVID, JR. 7/7/16
DATE

COA WT-04

[illegible]

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DRAWN BY	P.A.E.
DATE	8/26

REVISION	DATE
CHECKED	T.C.D
BOOK NO.	N/A
8 NO.	11461

WG. NO.	13406
SCALE	NONE

ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

PROJECT

SHEET NUMBER

4
OF 29

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



CALL LOUISIANA ONE CALL - JUST DIAL 811
LOUISIANA STATE LAW, SECTION RLS.40:1749.16, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

THESE DRAWINGS DO NOT
INCLUDE COMPONENTS FOR
CONSTRUCTION SAFETY.

SCALE NOTE
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71309



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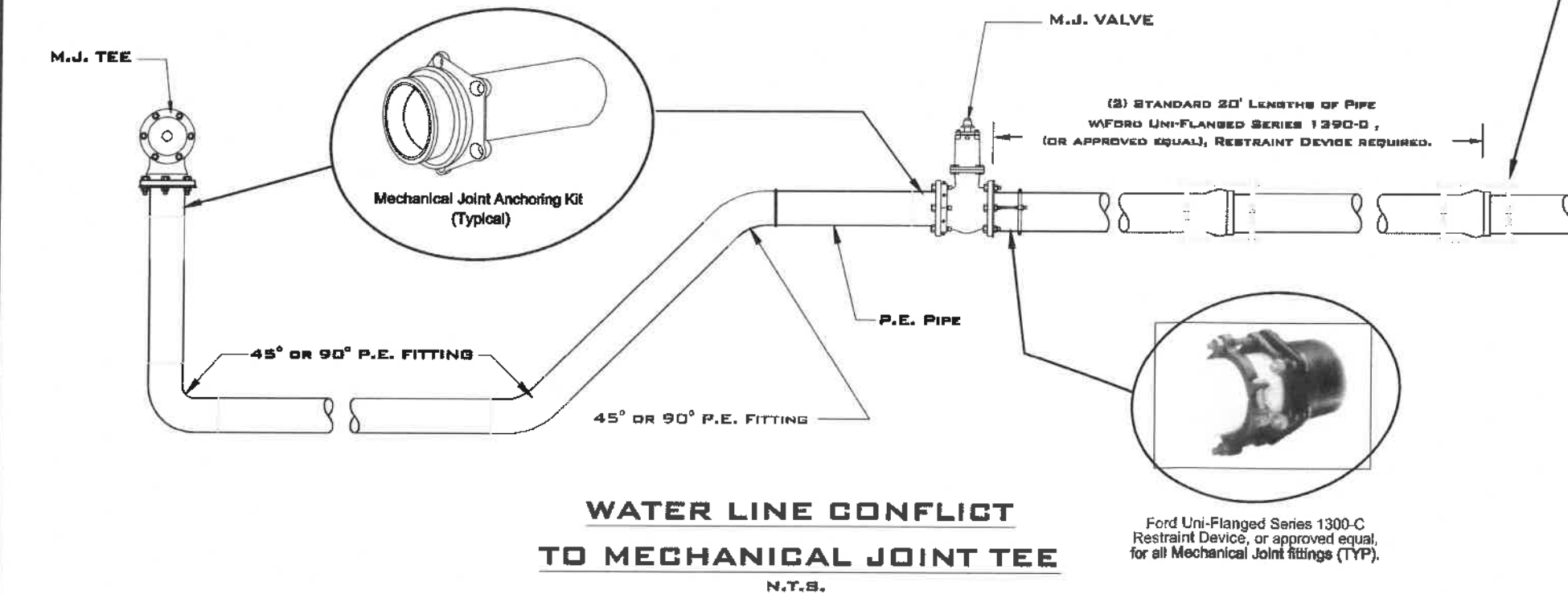
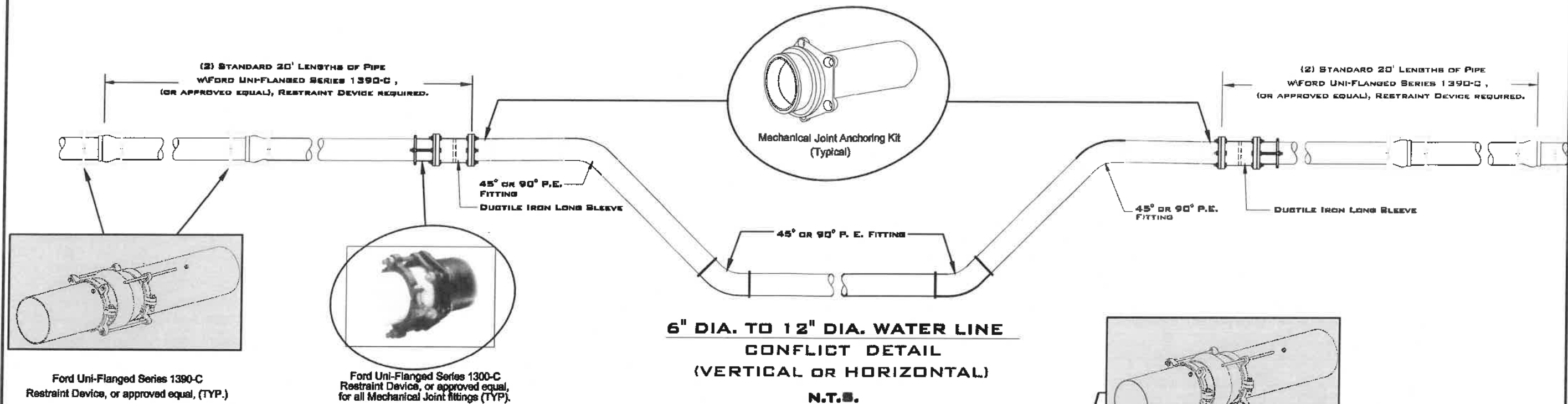
DRAWN BY P.A.E.
DATE 8/26

REVISION	DATE
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	11-461

DWG. NO. 13406
SCALE NONE

OWNER CITY OF ALEXANDRIA, LOUISIANA
PROJECT ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL (SITE RELATED)
2026

SHEET NUMBER
5
OF 29



- ### NOTES
- Each Mechanical Joint fitting and/or Restraint Device shall be wrapped in 5 mil. polyethylene encasement (polywrap).
 - Thrust blocking will not be required to restrain Mechanical Joint fittings that are installed for water line conflicts for pipe up to 12" in Diameter.
 - Water line installation shall clear obstruction(s) by a distance of no less than one (1) foot - six (6) inches. Measurement shall be from outside face of obstruction to outside diameter of pipe being installed.
 - Contractor shall use Polyethylene (PE) Pipe and Fittings to go under or around conflicts and under street pavement in lieu of Polyvinyl Chloride (PVC) pipe with Restraint Device(s). Connector for Polyethylene (PE) Pipe to Mechanical Joint Fitting shall be a Ductile Iron Mechanical Joint Anchoring Kit manufactured by Independent Pipe Products (or approved equal) for 6" thru 12" Ductile Iron Pipe Size Polyethylene (PE) Pipe.
 - Contractor shall install #10 gauge, Type TW stranded copper wire along the top of PVC or PE pipe for detection purposes.
 - If Contractor is able to install P.E. pipe around or under conflict with out fittings and still provide a distance of no less than one (1) foot - six (6) inch clearance, fittings may be deleted.

THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER. I HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODE AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.

Thomas C. David, Jr. 7/1/16
DATE

COA WT-05

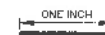
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CALL LOUISIANA ONE CALL - JUST DIAL 811
LOUISIANA STATE LAW, SECTION R.S. 40:1749.13, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

THESE DRAWINGS DO NOT INCLUDE COMPONENTS FOR CONSTRUCTION SAFETY.

SCALE NOTE
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DRAWN BY: P.A.E.
DATE: 6/26

REVISION	DATE
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BOOK NO.	N/A
JOB NO.	11461

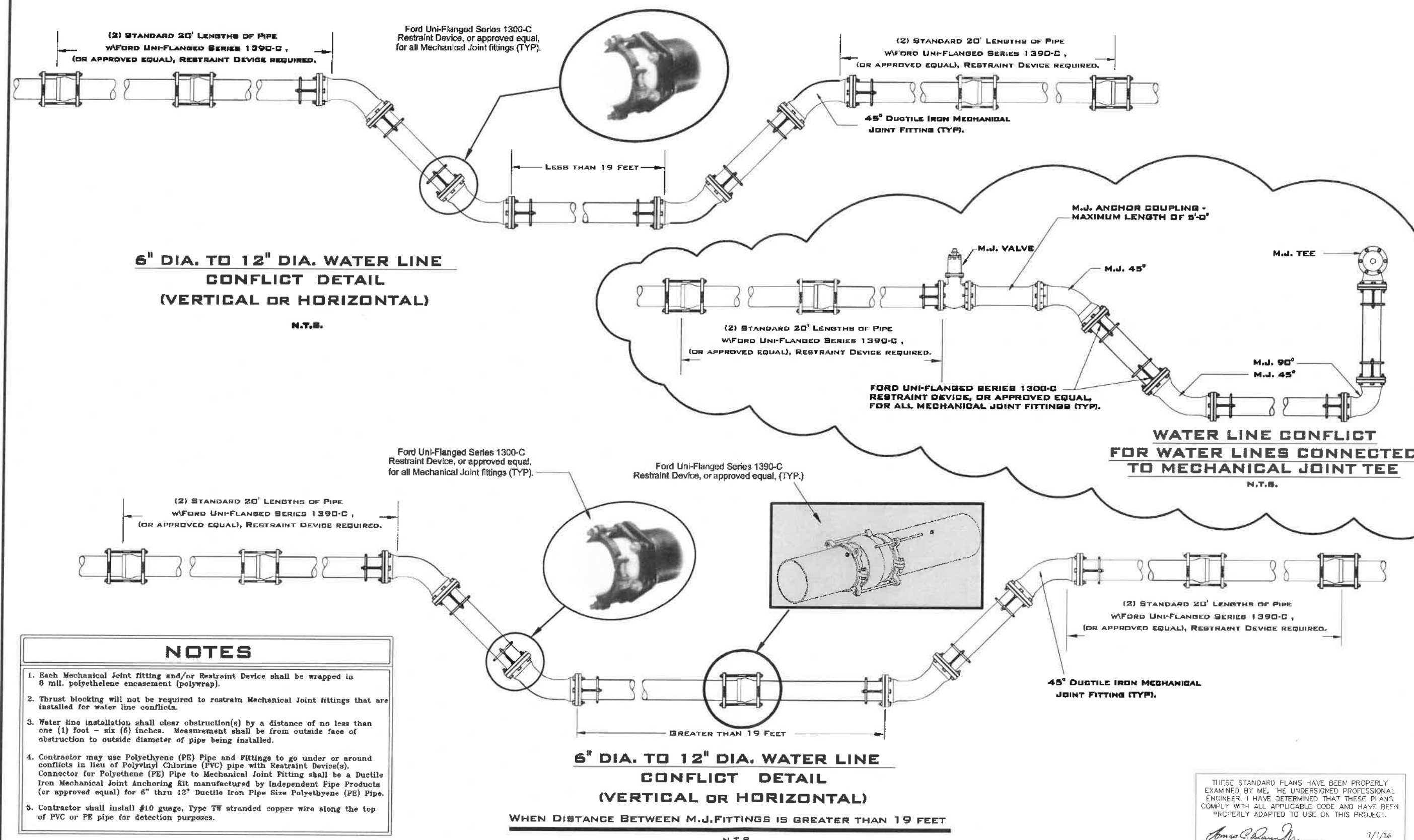
DWG. NO. 13405
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

SHEET NUMBER
6
OF 29

COA WT-06

THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER. I HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODE AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.
Thomas C. David, Jr.
THOMAS C. DAVID, JR. 7/1/16 DATE



- ### NOTES
- Each Mechanical Joint fitting and/or Restraint Device shall be wrapped in 8 mil. polyethylene encasement (polywrap).
 - Thrust blocking will not be required to restrain Mechanical Joint fittings that are installed for water line conflicts.
 - Water line installation shall clear obstruction(s) by a distance of no less than one (1) foot - six (6) inches. Measurement shall be from outside face of obstruction to outside diameter of pipe being installed.
 - Contractor may use Polyethylene (PE) Pipe and Fittings to go under or around conflicts in lieu of Polyvinyl Chlorine (PVC) pipe with Restraint Device(s). Connector for Polyethylene (PE) Pipe to Mechanical Joint Fitting shall be a Ductile Iron Mechanical Joint Anchoring Kit manufactured by Independent Pipe Products (or approved equal) for 8" thru 12" Ductile Iron Pipe Size Polyethylene (PE) Pipe.
 - Contractor shall install #10 gauge, Type TW stranded copper wire along the top of PVC or PE pipe for detection purposes.

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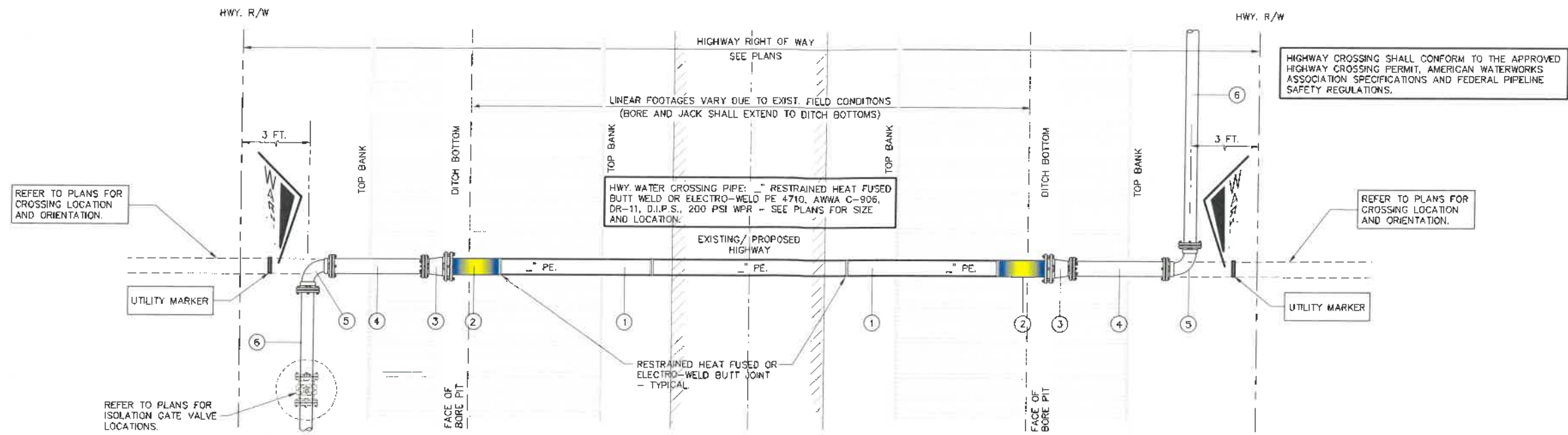
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LOUISIANA STATE LAW, SECTION 15:401-1491 IS REQUIRED EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

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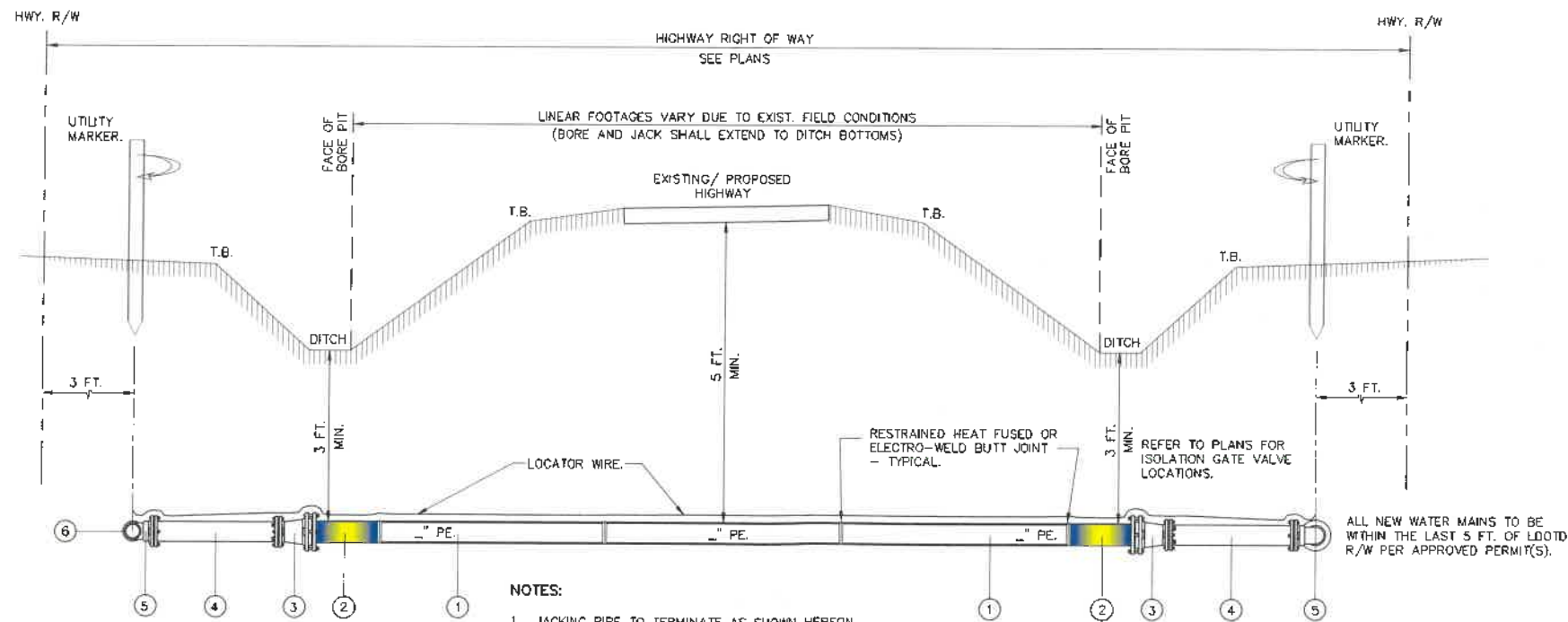
SCALE NOTE
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ALEXANDRIA, LA. 71302



HIGHWAY CROSSING PLAN
NOT TO SCALE



NOTES:

1. JACKING PIPE TO TERMINATE AS SHOWN HEREON.
2. PE TO PVC D.I.M.J. TRANSITION. SEE PLAN SHEET FOR ACTUAL PIPE AND FITTING LAYOUT.
3. INSTALL PIPELINE MARKER AT EACH SIDE OF HIGHWAY CROSSINGS.
4. WHEN PVC & PE WATER MAINS ARE IN-UNE, CONTRACTOR SHALL PROVIDE THE APPROPRIATE JOINT RESTRAINT ON ALL PIPE JOINTS WITHIN FORTY (40) LINEAR FEET OF THE PVC TO PE TRANSITION - SEE PLANS.

HIGHWAY CROSSING SECTION
NOT TO SCALE

LEGEND:

- ① RESTRAINED HEAT FUSED BUTT WELD PE PIPE HIGHWAY CROSSING WITH LOCATOR WIRE - SEE PLANS FOR SIZE AND LOCATION.
- ② PE TO D.I.M.J. FITTING TRANSITION - SEE PLAN FOR SIZE AND LOCATION.
- ③ PE TO PVC D.I.M.J. TRANSITION OR D.I.M.J. REDUCER - SEE PLANS FOR SPECIFIC REQUIREMENTS, SIZE AND LOCATION.
- ④ C-900 PVC SPOOL PIECE - LENGTH AS REQUIRED - SEE PLANS FOR SIZE AND LOCATION.
- ⑤ D.I.M.J. 90° BEND - SEE PLANS FOR SIZE AND LOCATION.
- ⑥ C-900 PVC WATER MAIN WITH LOCATOR WIRE - SEE PLAN FOR SIZE AND LOCATION.

ALL D.I. PIPE AND FITTINGS TO BE ENCASED WITH POLY-WRAP. (RE: SPECS.)



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DRAWN BY P.A.E.
DATE 8/26

REVISION	DATE
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	11461

DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

OWNER
PROJECT

SHEET NUMBER
8
OF 29

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



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LOUISIANA STATE LAW, SECTION R.S. 40:1749.15, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 72 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

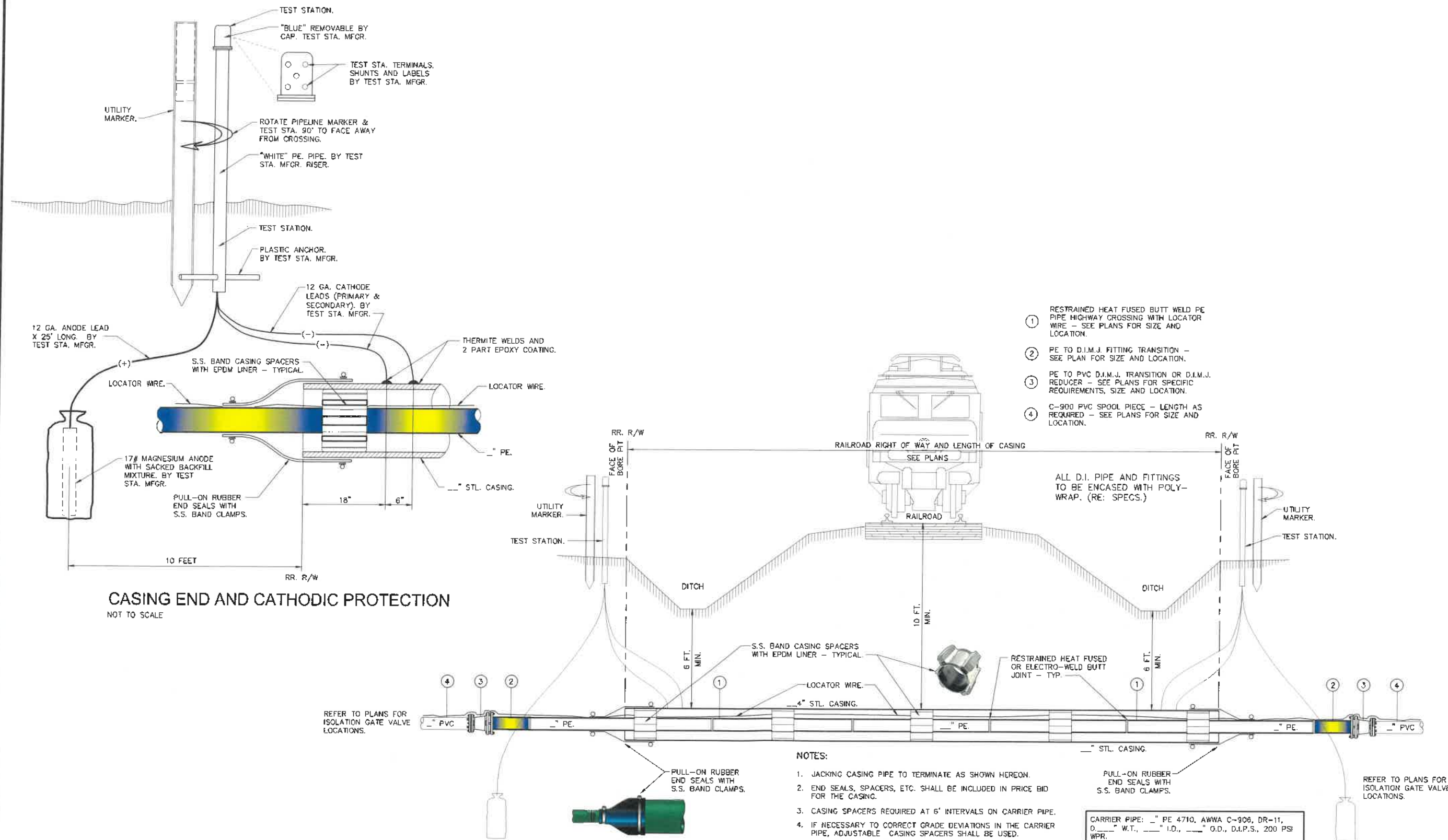
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SCALE NOTE
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ALEXANDRIA, LA. 71308

PAE WATER 1



CASING END AND CATHODIC PROTECTION
NOT TO SCALE

NOTES:

1. JACKING CASING PIPE TO TERMINATE AS SHOWN HEREON.
2. END SEALS, SPACERS, ETC. SHALL BE INCLUDED IN PRICE BID FOR THE CASING.
3. CASING SPACERS REQUIRED AT 6' INTERVALS ON CARRIER PIPE.
4. IF NECESSARY TO CORRECT GRADE DEVIATIONS IN THE CARRIER PIPE, ADJUSTABLE CASING SPACERS SHALL BE USED.
5. WHEN PVC & PE WATER MAINS ARE IN-LINE, CONTRACTOR SHALL PROVIDE THE APPROPRIATE JOINT RESTRAINT ON ALL PIPE JOINTS WITHIN FORTY (40) LINEAR FEET OF THE PVC TO PE TRANSITION - SEE PLANS.
6. PE TO PVC D.I.M.J. TRANSITION. SEE PLAN SHEET FOR ACTUAL PIPE AND FITTING LAYOUT.

CARRIER PIPE: 4" PE 4710, AWWA C-906, DR-11, 0.000" W.T., 4.000" I.D., 4.000" O.D., D.I.P.S., 200 PSI WPR.

CASING PIPE: 4" O.D. NPS SCH. 40 STEEL, GRADE 2, ASTM A252, 0.000" W.T., SEAMLESS OR ELECTRO-WELD, 35,000 PSI YIELD STRENGTH, ASPHALTIC TAR EXTERIOR COATING.

RAILROAD CROSSING DETAIL
NOT TO SCALE



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DRAWN BY: P.A.E.
DATE: 8/25

REVISION	DATE
CHECKED: T.C.D.	
BOOK NO.: N/A	
JOB NO.: 11461	

DWG. NO.: 13405
SCALE: NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

OWNER: PROJECT

SHEET NUMBER
9
OF 29

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



CALL LOUISIANA ONE CALL - JUST DIAL 811
LOUISIANA STATE LAW, SECTION R.S. 40:1149.13, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

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SCALE NOTE
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ALEXANDRIA, LA. 71308

PAE WATER 2



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DRAWN BY P.A.E.
DATE 8/26

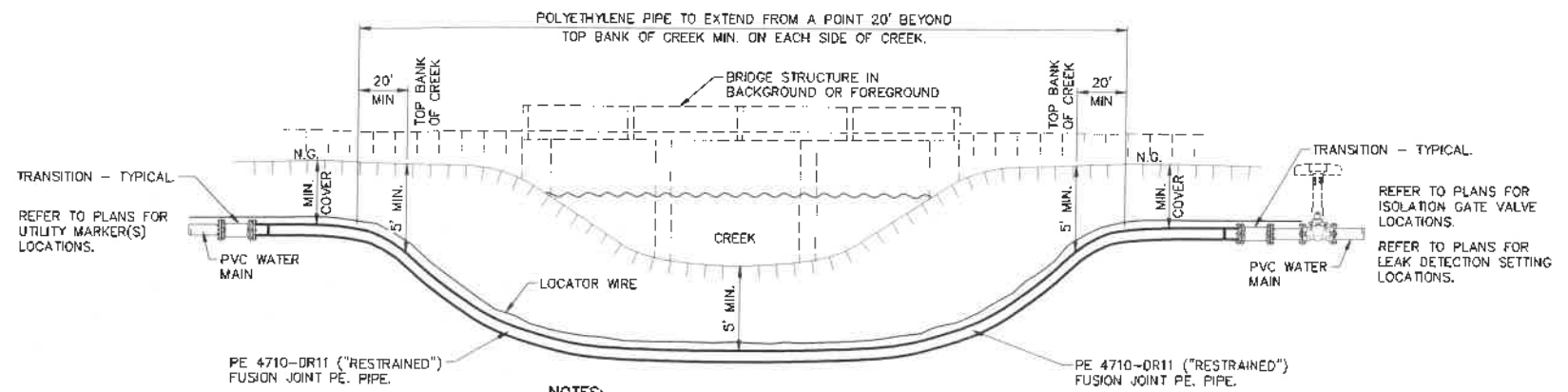
REVISION	DATE
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	11461

DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

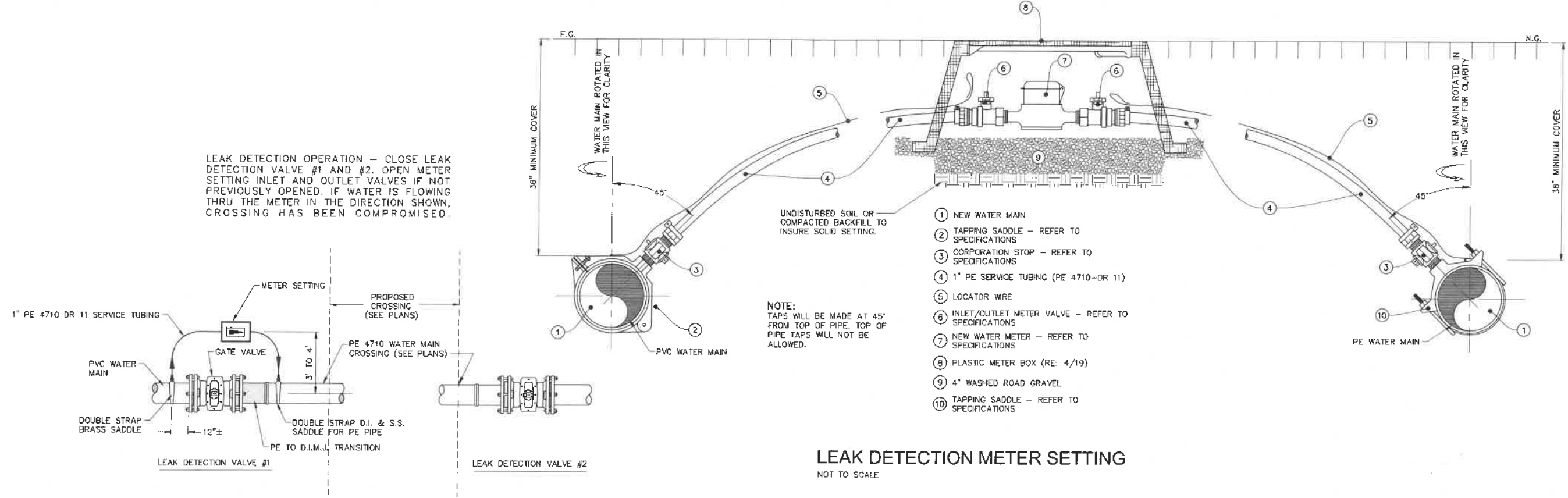
OWNER
PROJECT

SHEET NUMBER
10
OF 29



- NOTES:
- 1) INSTALL PIPELINE MARKER AT EACH SIDE OF CREEK CROSSINGS.
 - 2) WHEN PVC & PE WATER MAINS ARE IN-LINE, CONTRACTOR SHALL PROVIDE THE APPROPRIATE JOINT RESTRAINT ON ALL PIPE JOINTS WITHIN FORTY (40) LINEAR FEET OF THE PVC TO PE TRANSITION - SEE PLANS.

CREEK AND WETLANDS CROSSING DETAIL
NOT TO SCALE



LEAK DETECTION METER SETTING
NOT TO SCALE

LEAK DETECTION METER SETTING
NOT TO SCALE

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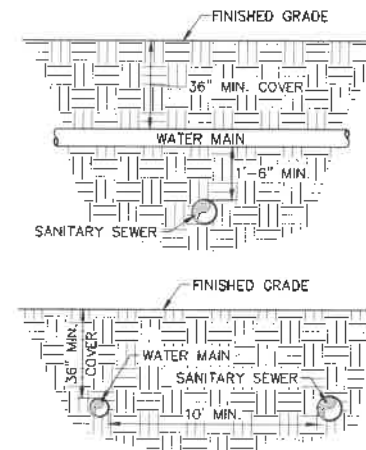
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SCALE NOTE
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LONG AT FULL SCALE. WHEN
SCALING DRAWINGS, MEASURE
BAR TO DETERMINE IF SCALE
SHOWN WILL REQUIRE ADJUSTING.

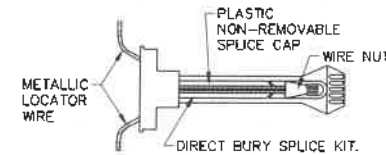


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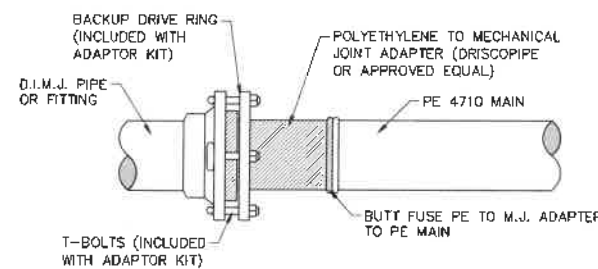
PAE WATER 3



**WATER / SANITARY
SEWER CLEARANCES**
NOT TO SCALE

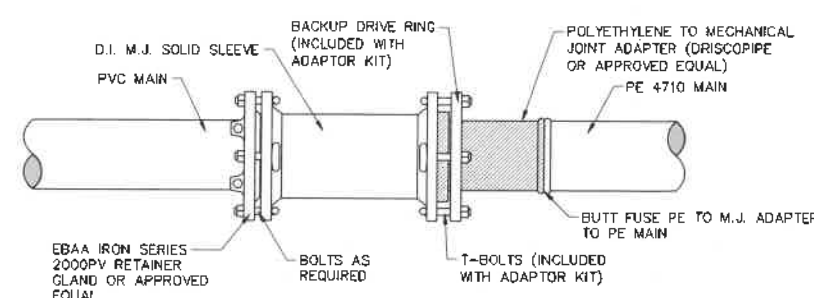


**LOCATOR WIRE
SPlice DETAIL**
NOT TO SCALE



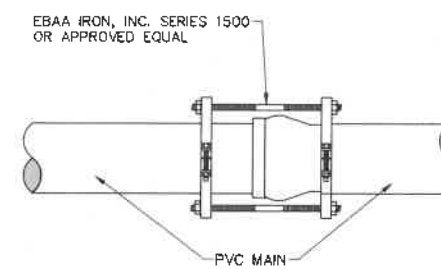
NOTE:
WHERE TRANSITION CONNECTION
IS IN LINE WITH D.I. MAIN, CONTRACTOR
SHALL PROVIDE JOINT RESTRAINT ON ALL
JOINTS WITHIN FORTY (40) LINEAR FEET
OF TRANSITION.

**POLYETHYLENE TO D.I.M.J.
TRANSITION**
NOT TO SCALE

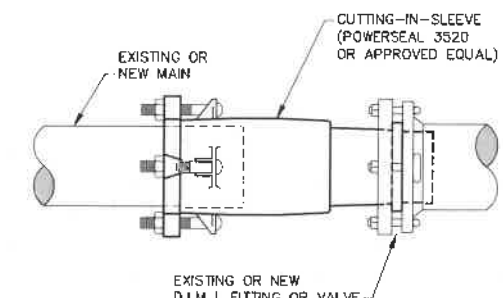


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JOINTS WITHIN FORTY (40) LINEAR FEET
OF TRANSITION.

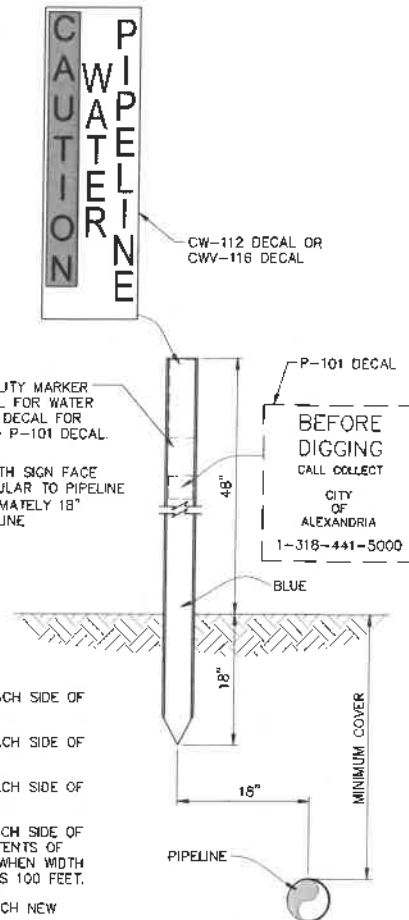
**POLYETHYLENE TO PVC
TRANSITION**
NOT TO SCALE



**JOINT RESTRAINT FOR
PVC PIPE**
NOT TO SCALE



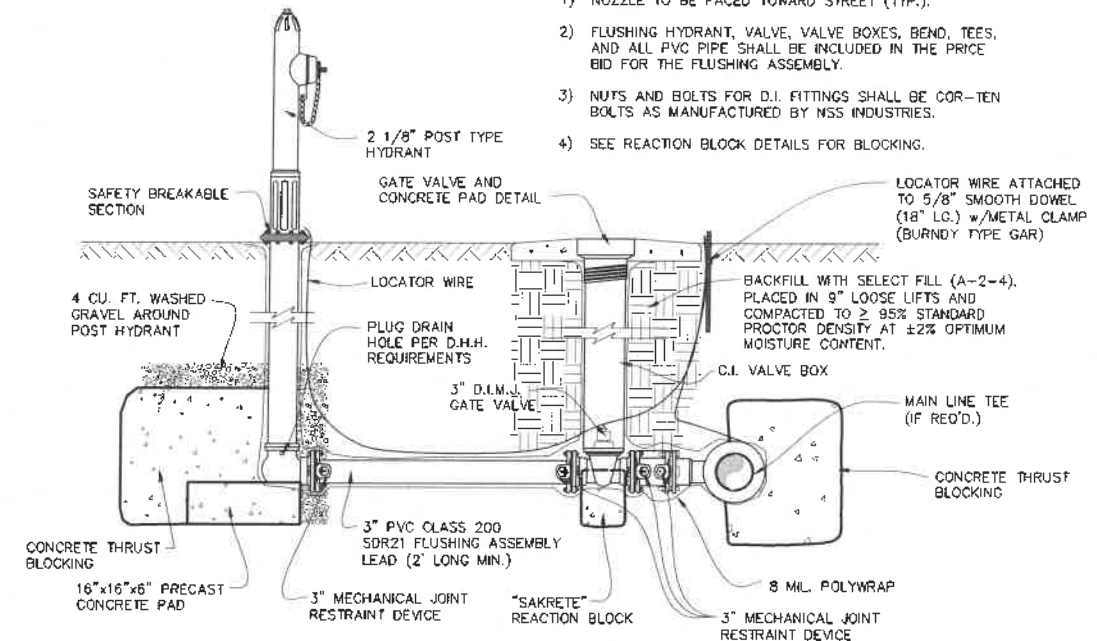
CUTTING-IN-SLEEVE CONNECTION
NOT TO SCALE



UTILITY MARKER NOTES:

1. INSTALL UTILITY MARKER AT EACH SIDE OF HIGHWAY CROSSINGS.
2. INSTALL UTILITY MARKER AT EACH SIDE OF CREEK CROSSINGS.
3. INSTALL UTILITY MARKER AT EACH SIDE OF RAILROAD CROSSINGS.
4. INSTALL UTILITY MARKER AT EACH SIDE OF PIPELINE CROSSING OR THE EXTENTS OF MULTIPLE PIPELINE CROSSINGS WHEN WIDTH OF MULTIPLE CROSSING EXCEEDS 100 FEET.
5. INSTALL UTILITY MARKER AT EACH NEW WATER VALVE.

UTILITY MARKER
NOT TO SCALE



2" FLUSHING ASSEMBLY
NOT TO SCALE

NOTES:

- 1) NOZZLE TO BE FACED TOWARD STREET (TYP.).
- 2) FLUSHING HYDRANT, VALVE, VALVE BOXES, BEND, TEES, AND ALL PVC PIPE SHALL BE INCLUDED IN THE PRICE BID FOR THE FLUSHING ASSEMBLY.
- 3) NUTS AND BOLTS FOR D.I. FITTINGS SHALL BE COR-TEN BOLTS AS MANUFACTURED BY MSS INDUSTRIES.
- 4) SEE REACTION BLOCK DETAILS FOR BLOCKING.



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DRAWN BY P.A.E.
DATE 8/26

REVISION	DATE
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	11461

JWC. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

SHEET NUMBER
11
OF 29

PAE WATER 4

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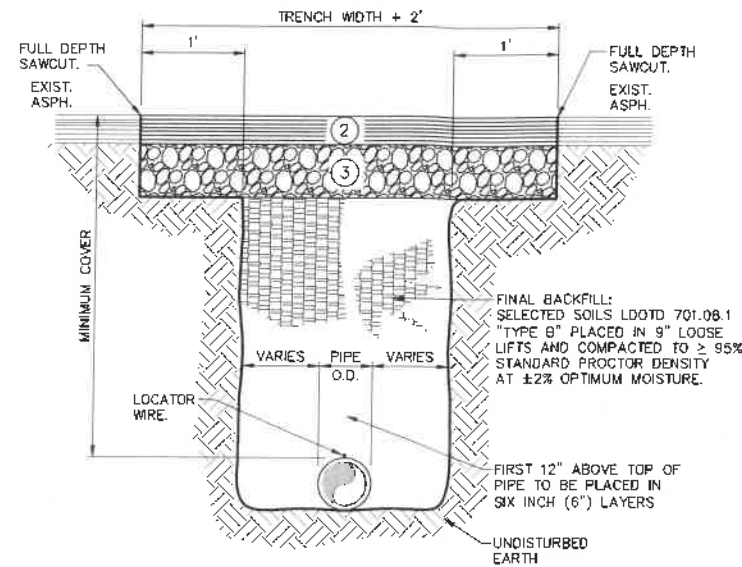
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DATE 8/26

REVISION	DATE
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	17461

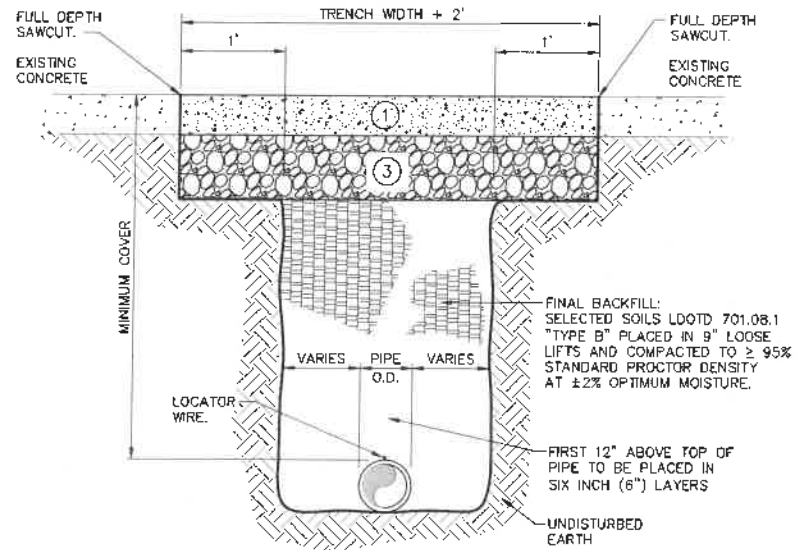
DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

SHEET NUMBER
13
OF 29



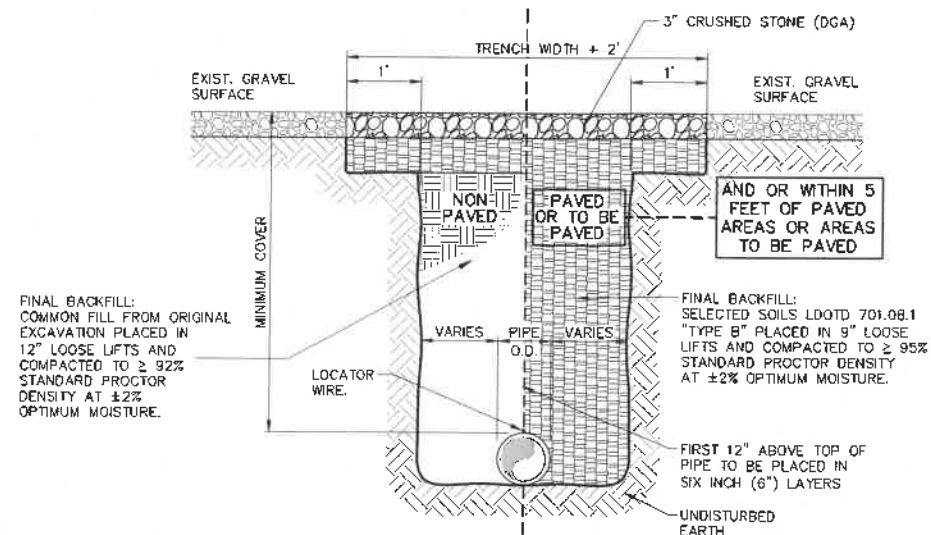
ASPHALT PAVEMENT REPAIR /
TRENCH DETAIL
NOT TO SCALE



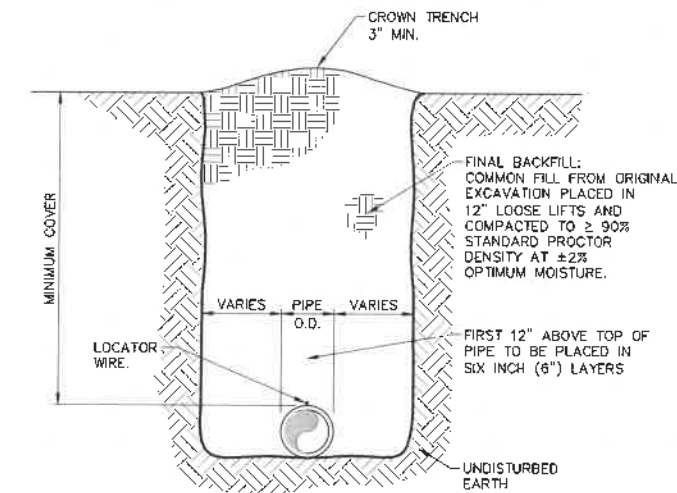
CONCRETE PAVEMENT REPAIR /
TRENCH DETAIL
NOT TO SCALE

REPAIR TYPE	REPAIR CLASS		
	SN = 3.5 - 5.6 HEAVY DUTY (COMMERCIAL TRAFFIC) INCHES (")	SN = 2.8 - 4.3 MEDIUM DUTY (LOCALIZED TRAFFIC) (COMMERCIAL DRIVES) INCHES (")	SN = 2.1 - 3.0 LIGHT DUTY (INCIDENTAL) (RESIDENTIAL DRIVES) INCHES (")
1 P.C.C. P.V.M.T.	8	6	4
2 H.M.A.C. P.V.M.T.	4 *	3 *	2
3 CRUSHED STONE (DGA)	10	8	6
CRUSHED STONE (DGA)	12	10	8

* 2 LIFTS WITH PRIME COAT ON BASE COURSE AND TACK COAT ON BINDER COURSE.
NOTE: CONTRACTOR MAY REPLACE CRUSHED STONE (DGA) WITH CL. "R" 1,800 PSI P.C. CONC. AT NOT COST TO OWNER.



AGGREGATE SURFACE REPAIR /
TRENCH DETAIL
NOT TO SCALE



UNIMPROVED SURFACE /
TRENCH DETAIL
NOT TO SCALE

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PAE WATER 6

14
OF 29



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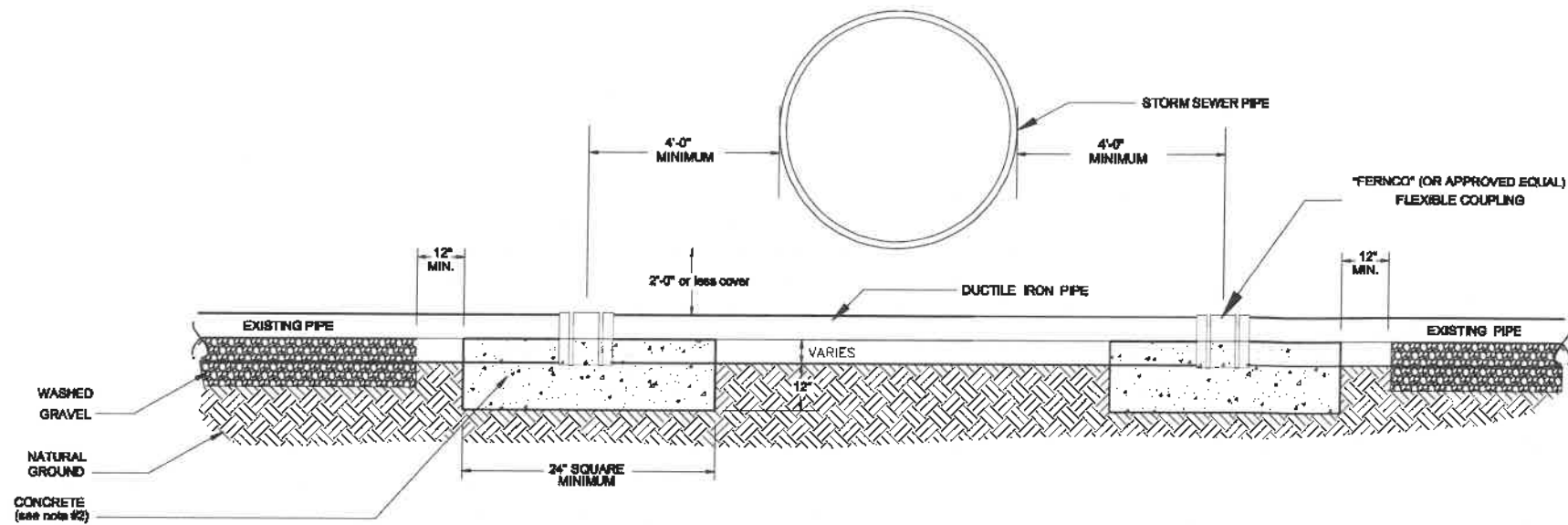
DRAWN BY P.A.E.
DATE 8/26

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CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	11461

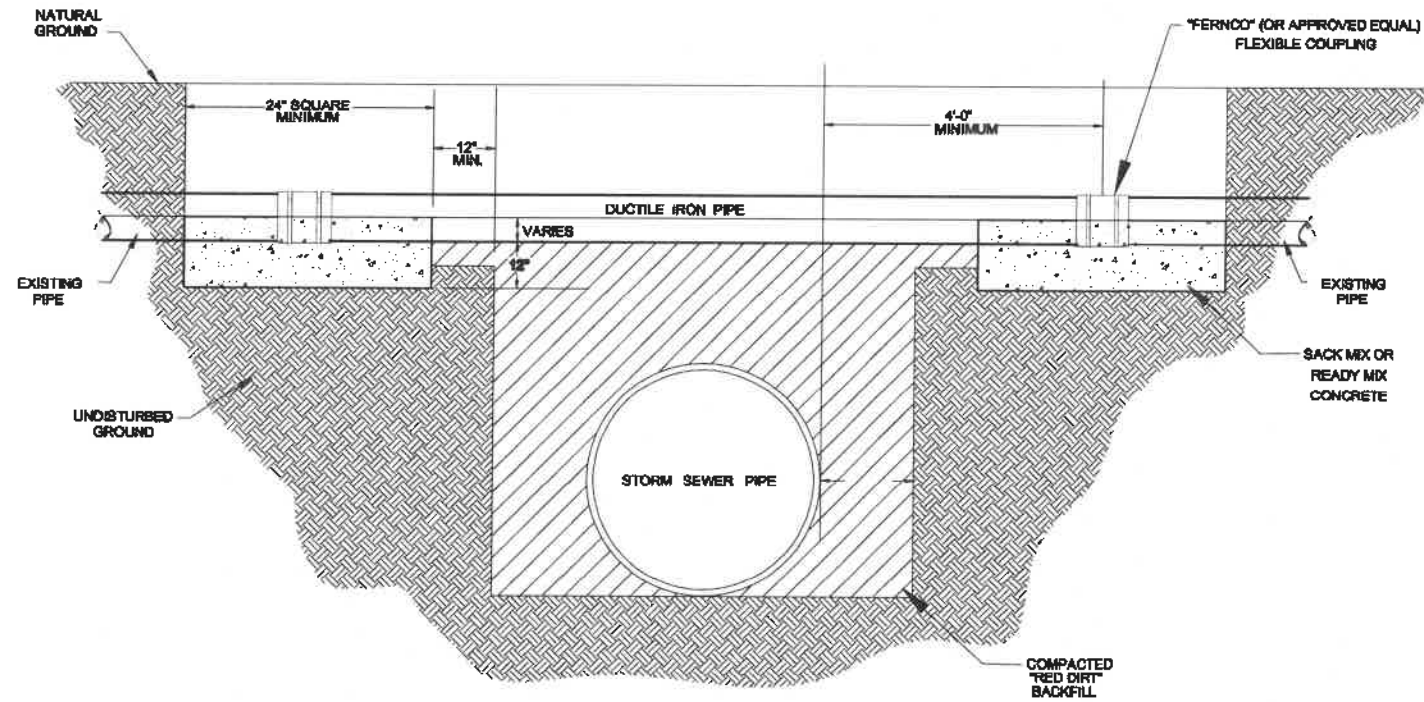
DWG. NO. 13406
SCALE NCNE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

SHEET NUMBER
15
OF 29



SEWER PIPE INSTALLATION
UNDER NEW STORM SEWER PIPE



SEWER PIPE INSTALLATION
OVER NEW STORM SEWER PIPE

- NOTES**
- Contractor shall use Fernco couplings, or approved equal, to connect existing sewer pipe to ductile iron pipe.
 - Contractor shall use either sack mix or ready mix concrete (see specifications) to cradle the connection of the two pipes. Concrete shall be placed to the spring line of the sewer pipe. The minimum width of the concrete cradle shall be 24 inches square. The depth of the concrete cradle shall be no less than 12 inches below the bottom of the sewer pipe and extend to center of new ductile iron pipe.
 - Back filling of the sewer pipe trench shall not proceed until the concrete has set up for a minimum of 24 hours.

THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER. I HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODES AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.

Thomas C. Davis, Jr.
THOMAS C. DAVIS, JR.
DATE 7/1/16

COA SS-02

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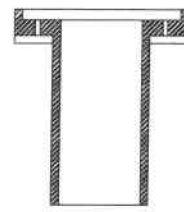
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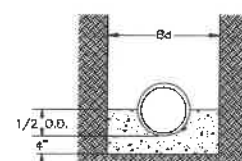


COMPACT BACKFILL TO
95% STANDARD PROCTOR
AROUND CLEAN CUTS
IN 6" LIFTS.

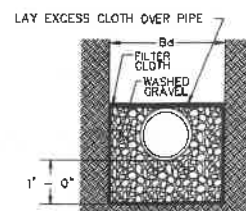


A cross-sectional diagram of a trench. A circular pipe is shown with a diameter dimensioned as 4". The pipe is surrounded by a layer of material labeled "WASHED GRAVEL". Above the gravel, there is a horizontal dimension line labeled "Bd". To the left of the pipe, there is a vertical dimension line labeled "1/2 O.D.". The trench walls are shown as hatched areas on either side.

CLASS 2 BEDDING

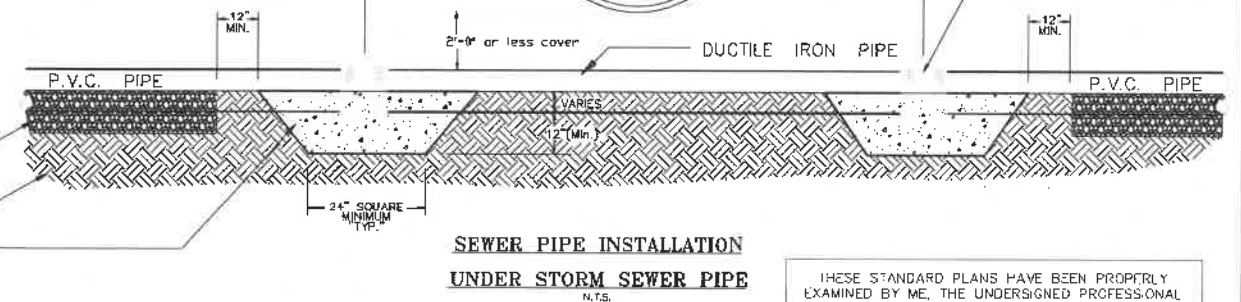


CLASS 4 BEDDING



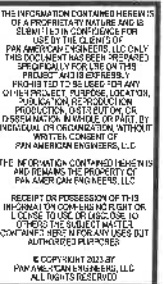
CLASS 5 BEDDING

WASHED GRAVEL _____
NATURAL GROUND _____
CONCRETE _____
(see specs.)



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COA SS-04



OWG. NO.	13406
SCALE	NONE

SHEET NUMBER

16
OF 29

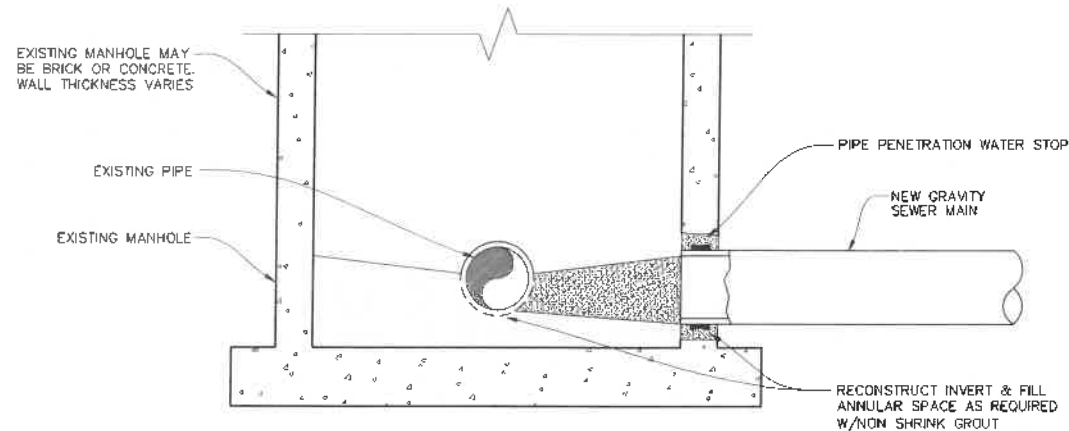


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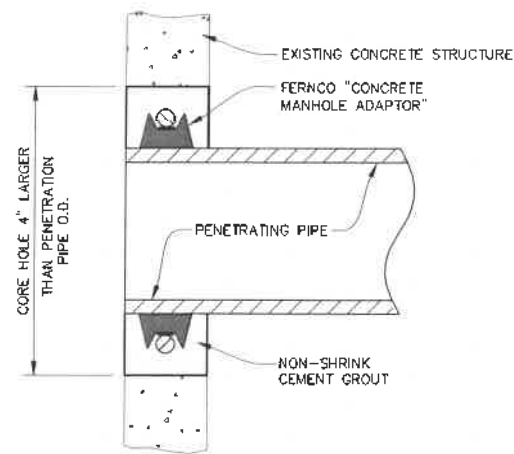
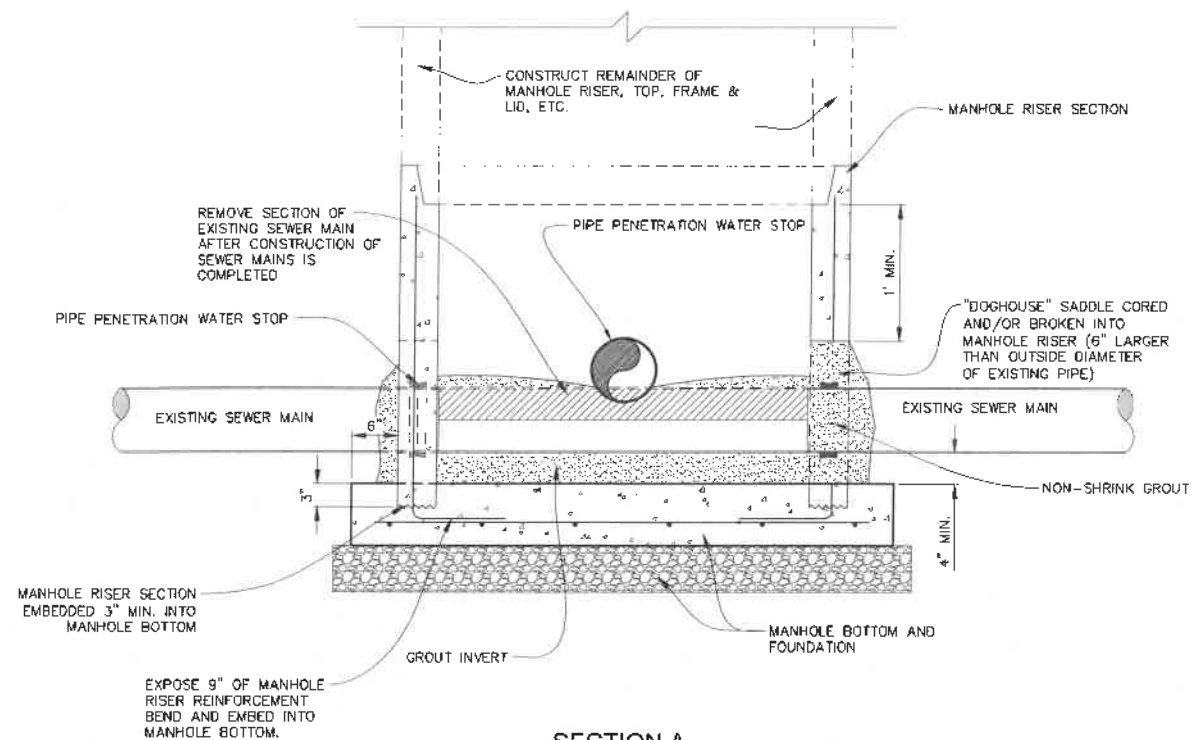
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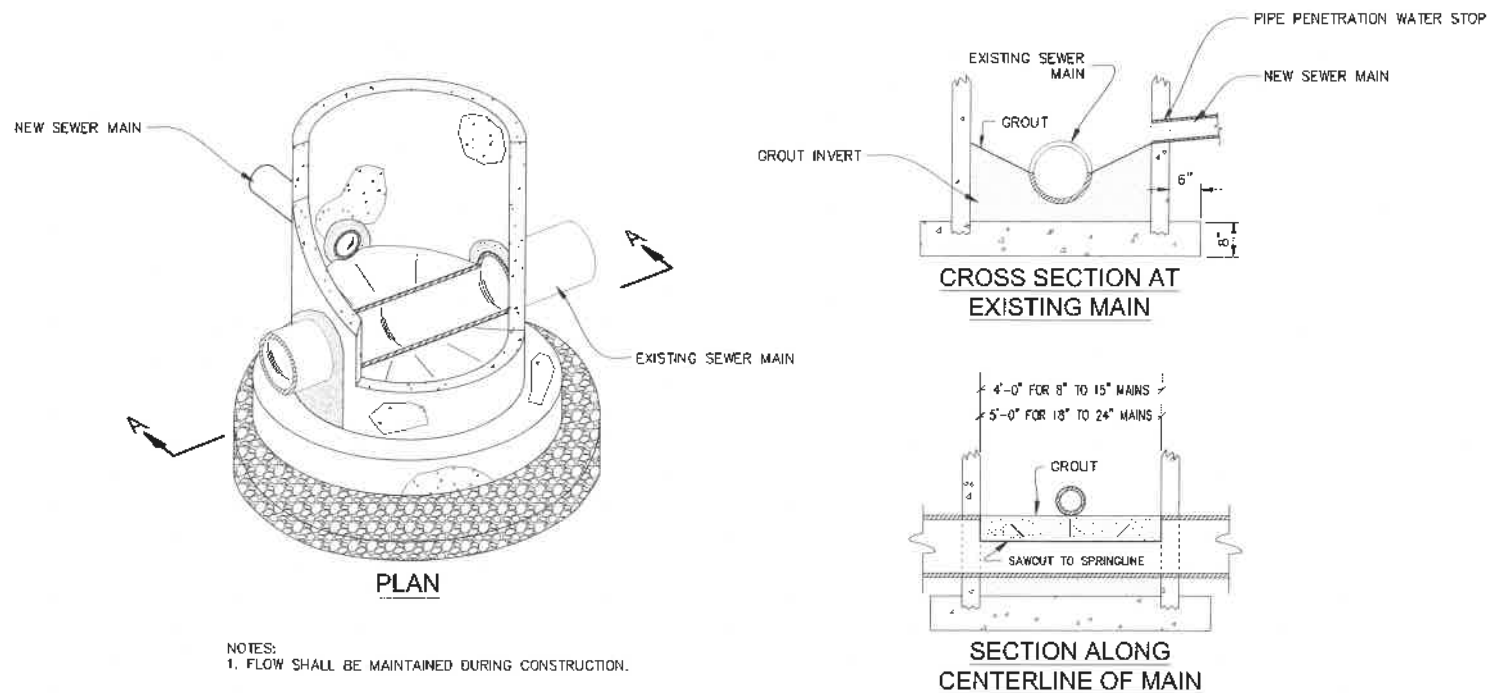
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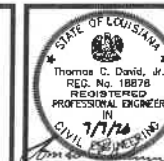
GRAVITY CONNECTION TO EXISTING MANHOLE DETAIL
NOT TO SCALE



PIPE PENETRATION "O" RING WATER STOP
NOT TO SCALE



MANHOLE OVER EXISTING SEWER MAIN
NOT TO SCALE



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DATE 8/26

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BOOK NO. N/A	
JOB NO. 11461	

DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

OWNER
PROJECT

SHEET NUMBER
17
OF 29

PAE SEWER 3

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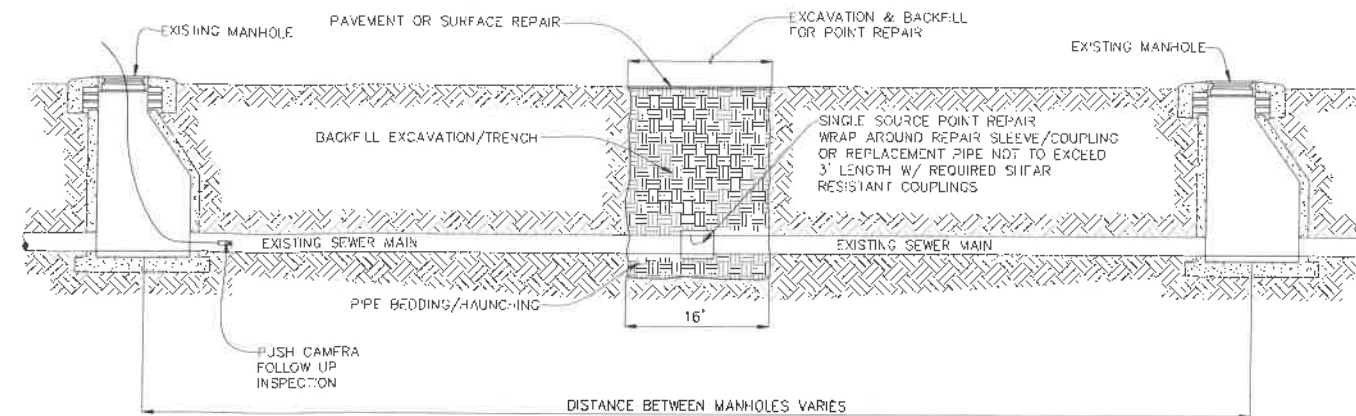
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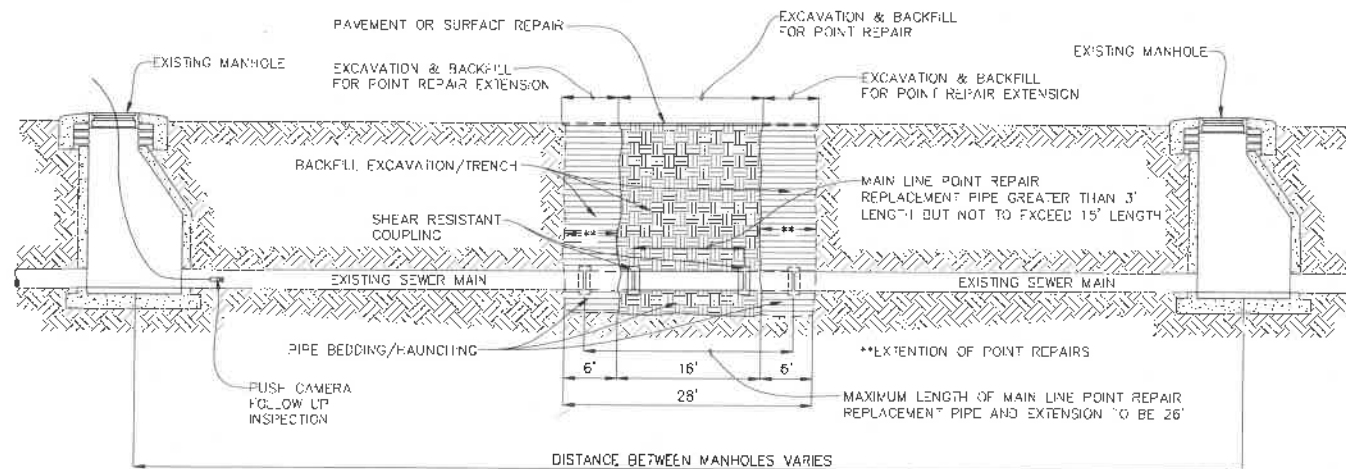
ONE INCH



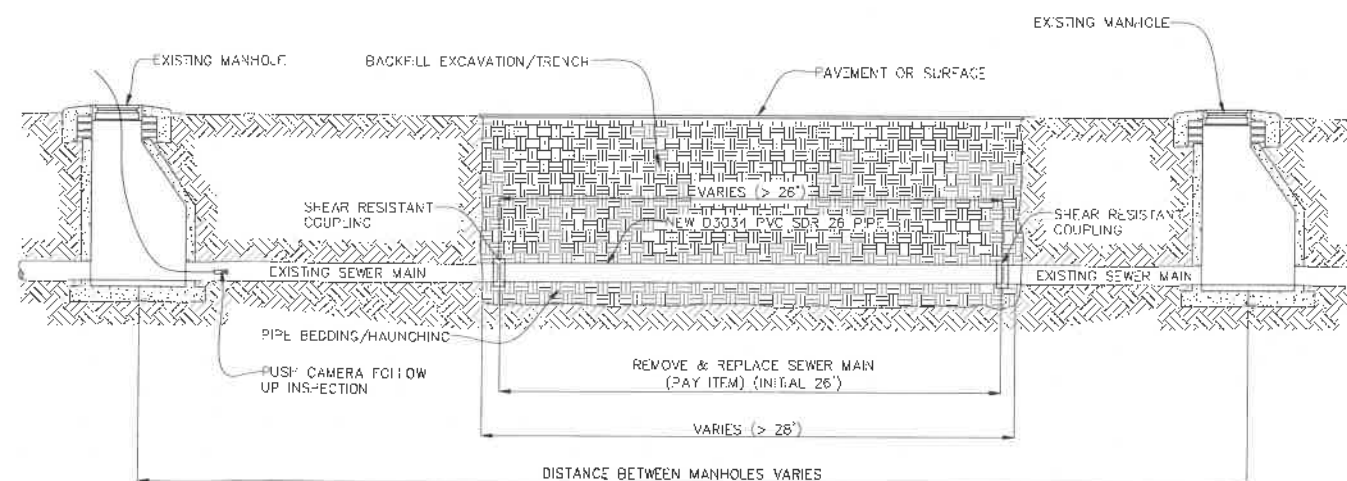
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**SINGLE SOURCE
POINT REPAIR**
NOT TO SCALE



**MAIN LINE
POINT REPAIR**
NOT TO SCALE



**SEWER MAIN
PIPE REPLACEMENT**
NOT TO SCALE

NOTE:
FOR THE PURPOSE OF MEASUREMENT, PAYMENT AND COMPENSATION, IT WILL BE ASSUMED THAT ALL REPAIRS SHALL BEGIN AS EITHER A "SINGLE SOURCE POINT REPAIR" OR A "MAIN LINE POINT REPAIR". EXCAVATION AND INSPECTION WILL DETERMINE IF THE REPAIR TRANSFORMS TO A "SEWER MAIN PIPE REPLACEMENT". WHEN THE REPLACED LENGTH OF PIPE EXCEEDS 26', THE REPAIR WILL THEN BE DEEMED A "SEWER MAIN PIPE REPLACEMENT". ONCE THE LENGTH OF REPLACEMENT PIPE EXCEEDS 26', THE INITIAL 26' OF DEFICIENT PIPE SHALL BE PAID UNDER THE "MAIN LINE POINT REPAIR" PAY ITEM AND ASSOCIATED EXCAVATION AND EMBANKMENT PAY ITEMS. THE BALANCE OF PIPE IN EXCESS OF 26' SHALL BE PAID UNDER THE "SEWER MAIN PIPE REPLACEMENT" PAY ITEM.



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DRAWN BY P.A.E.
DATE 8/26

REVISION	DATE
CHECKED T.C.D.	
BOOK NO. N/A	
JOB NO. 11461	

DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

OWNER
PROJECT

SHEET NUMBER
18
OF 29

PAE SEWER 1

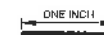
THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



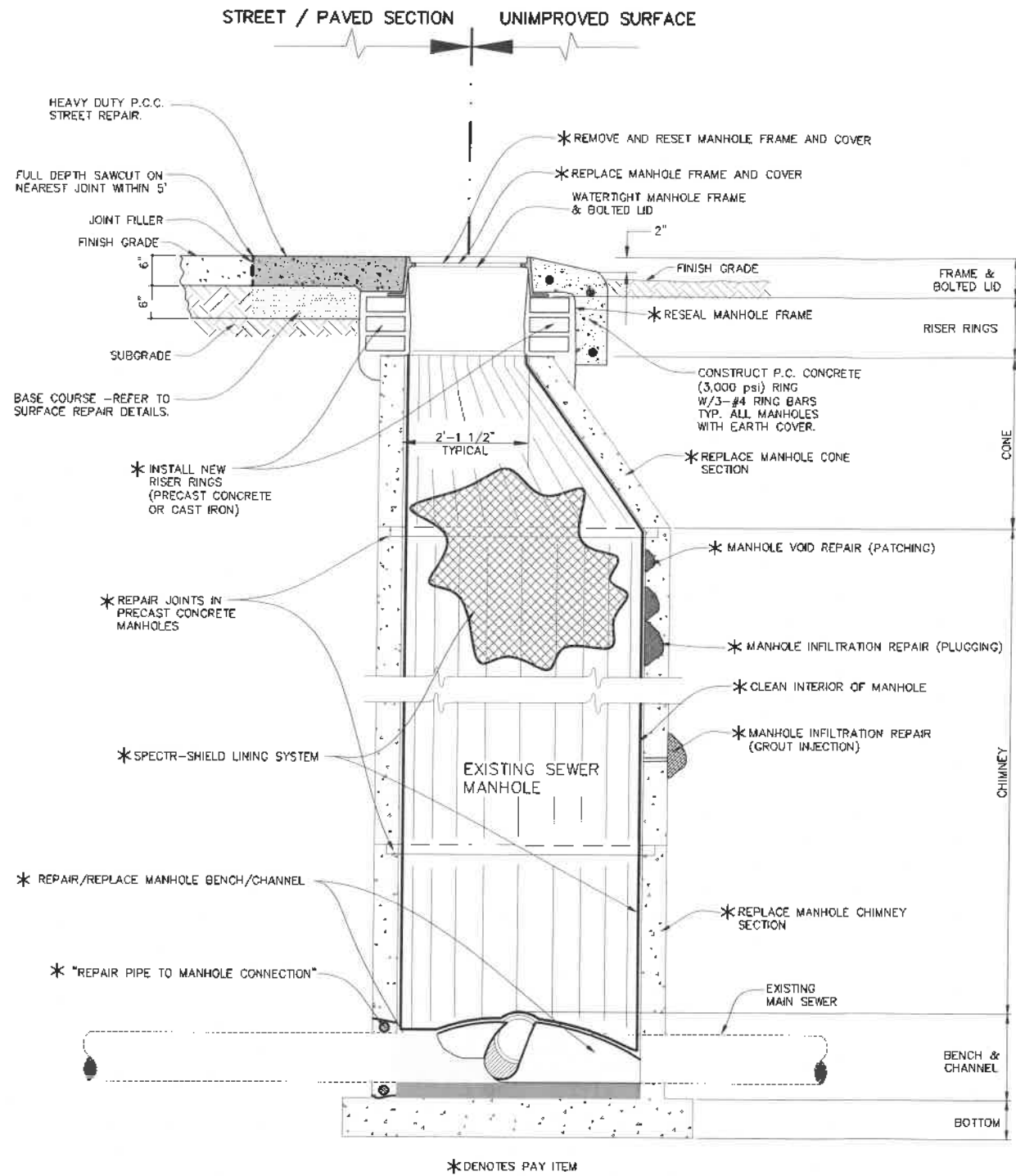
CALL LOUISIANA ONE CALL - JUST DIAL 811
LOUISIANA STATE LAW, SECTION R.S. 48:1749.15, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNER'S OPERATIONS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

THESE DRAWINGS DO NOT
INCLUDE COMPONENTS FOR
CONSTRUCTION SAFETY.

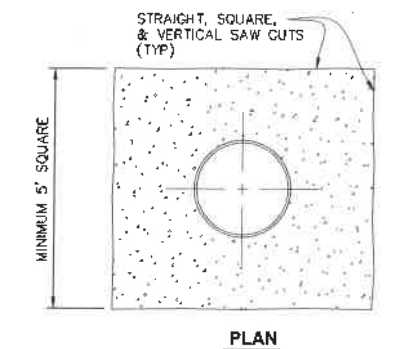
SCALE NOTE
SCALE BAR SHOWN IS ONE INCH
LONG AT FULL SCALE WHEN
SCALING DRAWINGS. MEASURE
BAR TO DETERMINE IF SCALE
SHOWN WILL REQUIRE ADJUSTING.



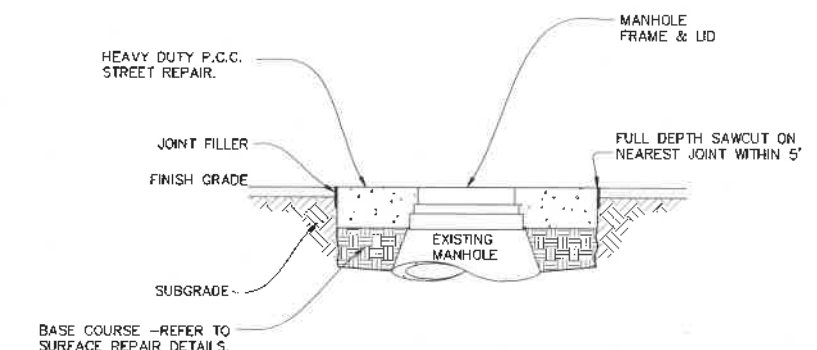
PAN AMERICAN ENGINEERS, LLC
P.O. BOX 88 / 1717 JACKSON STREET
ALEXANDRIA, LA.
71309



**MANHOLE REHABILITATION
DETAIL**
NOT TO SCALE



PLAN



**MANHOLE STREET
PATCH DETAIL**
NOT TO SCALE



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DRAWN BY: P.A.E.
DATE: 8/26

REVISION	DATE
CHECKED: T.C.D.	
BOOK NO.: N/A	
JOB NO.: 11451	

DWG. NO.: 13406
SCALE: NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

SHEET NUMBER
**19
OF 29**

PAE SEWER 2

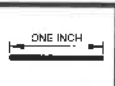
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CALL LOUISIANA ONE CALL - JUST DIAL 811
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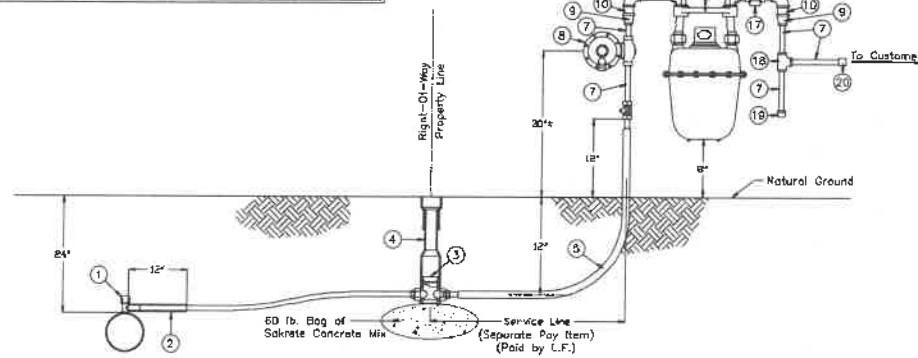
SCALE NOTE
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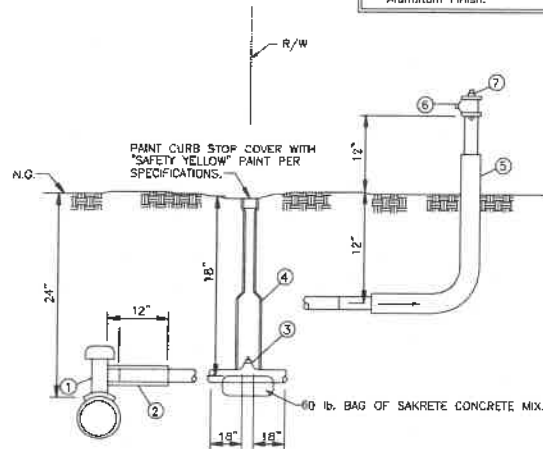
PAN AMERICAN ENGINEERS, LLC
P.O. BOX 88 / 1717 JACKSON STREET
ALEXANDRIA, LA. 71309

MARK	DESCRIPTION
1	Tapping Tee - Phillips, 1" IPS Outlet with 3/4" cutter, SDR-11 Cell Class P.E. 355434 C or Approved Equal.
2	Protective Sleeve - Phillips, 1 1/2" IPS SDR-11 Cell Class P.E. 355434 C or Approved Equal.
3	Curb Stop Valve, 1" P.E.-Rockwell Fig No. 83211, with 18" P.E. Pipe Stub-Outs or Approved Equal.
4	Curb Stop Box - 3" Handley Industries, Inc. with Sakrete Support or Approved Equal.
5	Service Riser - Wayne Mfg., Inc. 1" Non-Corrovable Part No. ASR-1010, 24" Horiz. x 24" Vert.
6	Meter Stop - Mueller, No. H 11175, 1" Galv. or Approved Equal.
7	Nipple, 1" Sch. 40, Galv. to Center Meter Vertically or Approved Equal.
8	Regulator, Rockwell No. 143-BD-2, or Approved Equal.
9	Reducer, 1" x 2" Sch. 40 Galv. or Approved Equal.
10	Nipple, 2" Sch. 40 Galv. to Center Meter Horizontally or Approved Equal.
11	90° Elbow, 2" Sch. 40 Galv. or Approved Equal.
12	Street Elbow, 2" Sch. 40 Galv. or Approved Equal.
13	Meter Bar-Rockford-Eclipse, 2" Sleeve Inlet & Outlet, 1 1/2" Swivel Tapping 10" D.C. Style 22, Assy. No. 700268 or Approved Equal.
14	Offset Meter Swivel-Rockford Eclipse, 1 1/8" Offset 45 LT. Conn. & 1 1/2" External NPT Threads, Part No. 12884 or Approved Equal.
15	Meter Nut-Rockford-Eclipse 45 LT. Galv., Part No. 15166 or Approved Equal.
16	Meter-Rockwell Model 750 or 1600, as applicable or Approved Equal.
17	Union-Rockford-Eclipse Cat. No. P-5-12, 2" Int. NPT, Series No. 3 Assy. No. 700831 or Approved Equal.
18	Tee, 1" Sch. 40 Galv. or Approved Equal.
19	Cap, 1" Sch. 40 Galv. or Approved Equal.
20	High Pressure API Sleeve or mechanical coupling or Approved Equal.

NOTES
1. Contractor's piping centerline at connection shall determine centerline and location of item 18.
2. Paint with Aluminum Finish Per Specs.
3. New meters shall typically be located on the outside of the houses, buildings, structures, etc. At a location approved by the Engineer, piping, fittings, etc. necessary to connect to the existing house gas piping shall be at no separate pay.

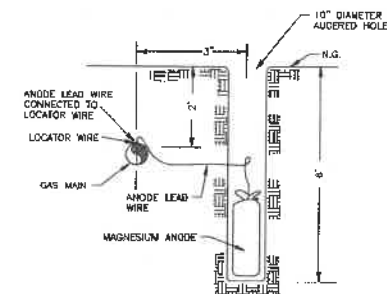


1" SERVICE ASSEMBLY - TYPE I
(760 OR 1600 CFH METER SETTINGS)
N.T.S.

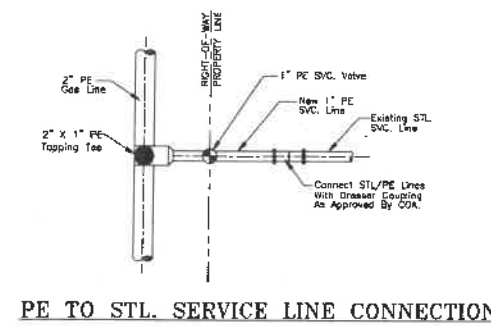


1" SERVICE ASSEMBLY TYPE II
N.T.S.

NOTES
1. ANODE TO BE 17 POUND SIZE.
2. ANODE LEAD WIRE SHALL BE TYPE TW INSULATED # 12 AWG SOLID COPPER WIRE, NOT LESS THAN 10 FEET LONG, UNSPICED.
3. WIRE CONNECTIONS SHALL BE PER SPECS. USING 3M DBR SPICE HTS.



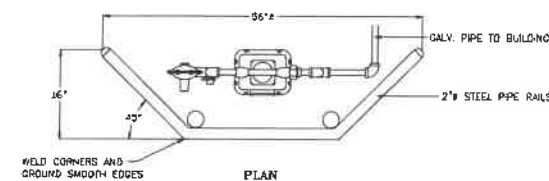
LOCATOR WIRE ANODE DETAIL
N.T.S.



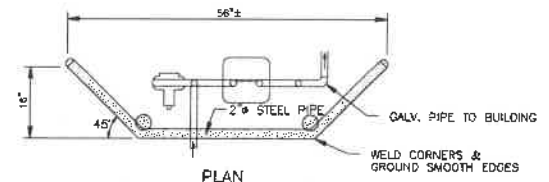
PE TO STL SERVICE LINE CONNECTION
N.T.S.

NOTES
1. Service Assembly Type II includes fittings, etc. detailed above and Top to Main, Curb Stop with Box, Meter Riser and Shop for Service Assembly set-up.
2. Paint exposed Service Riser, Meter Stop and Plug with Aluminum Finish.

MARK	DESCRIPTION
1	TAPPING TEE-PHILLIPS, 1" IPS OUTLET W/ 3/4" CUTTER, SDR-11, CELL CLASS P.E. 355434 C OR APPROVED EQUAL.
2	PROTECTIVE SLEEVE-PHILLIPS, 1 1/2" IPS, SDR-11, CELL CLASS P.E. 355434 C OR APPROVED EQUAL.
3	CURB STOP VALVE, 1" P.E.-ROCKWELL FIGURE NO. 83211, WITH 18" P.E. PIPE STUB-OUTS.
4	CURB STOP BOX-3" HANDLEY INDUSTRIES, INC. W/ SAKRETE SUPPORT OR APPROVED EQUAL.
5	SERVICE RISER-WAYNE, 1" NON-CORRODIBLE, PART NO. ASR-1010, 24" HORIZ. x 24" VERT. OR APPROVED EQUAL.
6	METER STOP-MUELLER, NO. H-11175, 1" GALV. OR APPROVED EQUAL.
7	PLUG, 1" SCH. 40 SQUARE HEAD, CORED OR APPROVED EQUAL.



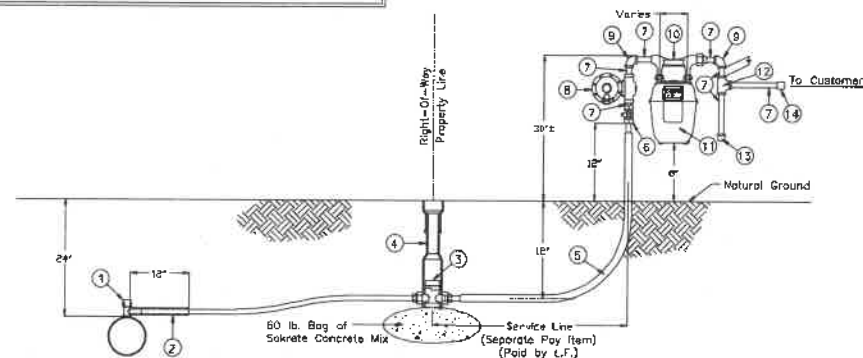
**ELEVATION
DETAIL OF SIDEWALK SERVICE
ASSEMBLY PROTECTION RAILING**
N.T.S.



**ELEVATION
DETAIL OF SIDEWALK SERVICE ASSEMBLY
PROTECTION RAILING**
N.T.S.

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5	Service Riser - Wayne Mfg., Inc. 1" Non-Corrovable Part No. ASR-1010, 24" Horiz. x 24" Vert.
6	Meter Stop - Mueller, No. H 11175, 1" Galv. or Approved Equal.
7	Nipple, 1" Sch. 40, Galv. to Center Meter Vertically and Horizontally or Approved Equal.
8	Regulator, Rockwell No. 043-182, or Approved Equal.
9	Street El., 1" Sch. 40 Galv. or Approved Equal.
10	Meter Bar-Rockford-Eclipse 1" Int. & outlet, 6" O.C. 20 LT. Meter Conn., Style 11, Model CA-11-40, Assy. No. 730001A, Galv. or Approved Equal.
11	Meter - Rockwell Model 275 or Approved Equal.
12	Tee, 1" Sch. 40 Galv. or Approved Equal.
13	Cap, 1" Sch. 40 Galv. or Approved Equal.
14	High Pressure API Sleeve or Mechanical coupling or Approved Equal.

NOTES
1. Customer's piping centerline at connection shall determine centerline and location of item 12.
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1" SERVICE ASSEMBLY - TYPE I
(275 OR 415 CFH METER SETTINGS)
N.T.S.

NOTE: SEE GAS LINE INSTALLATION STANDARD DETAIL FOR GAS MAIN & VALVE DETAILS.

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ONE INCH



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ALEXANDRIA, LA.
71303



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DATE 8/26

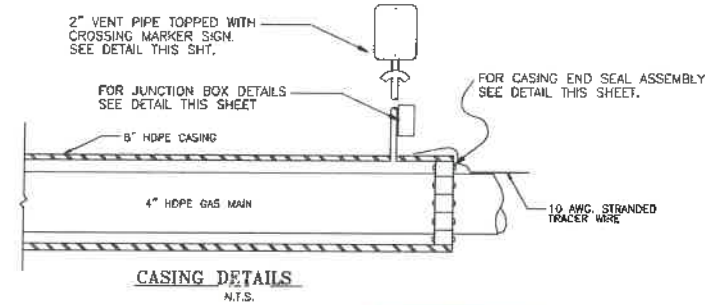
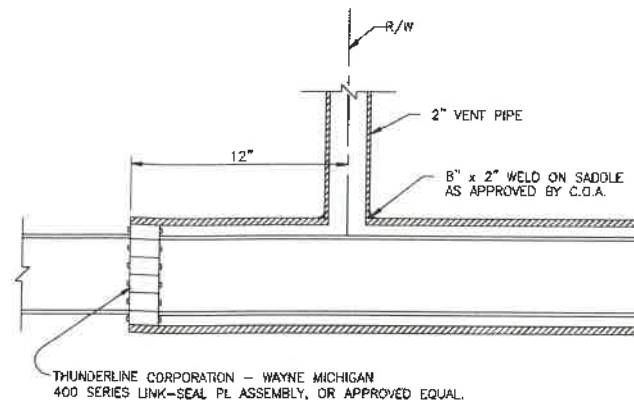
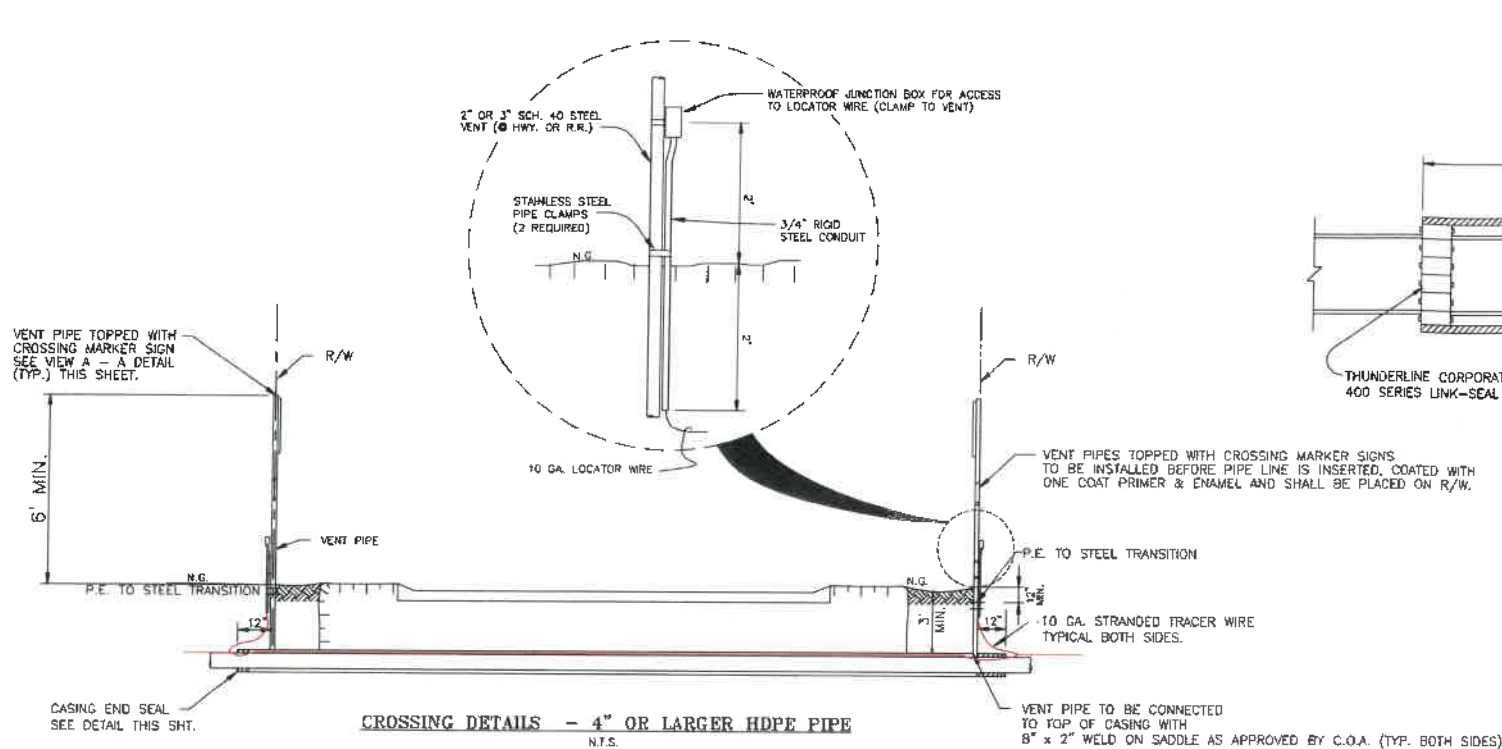
REVISION	DATE
CHECKED T.C.D.	
BOOK NO. N/A	
JOB NO. 11461	

DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026
OWNER PROJECT

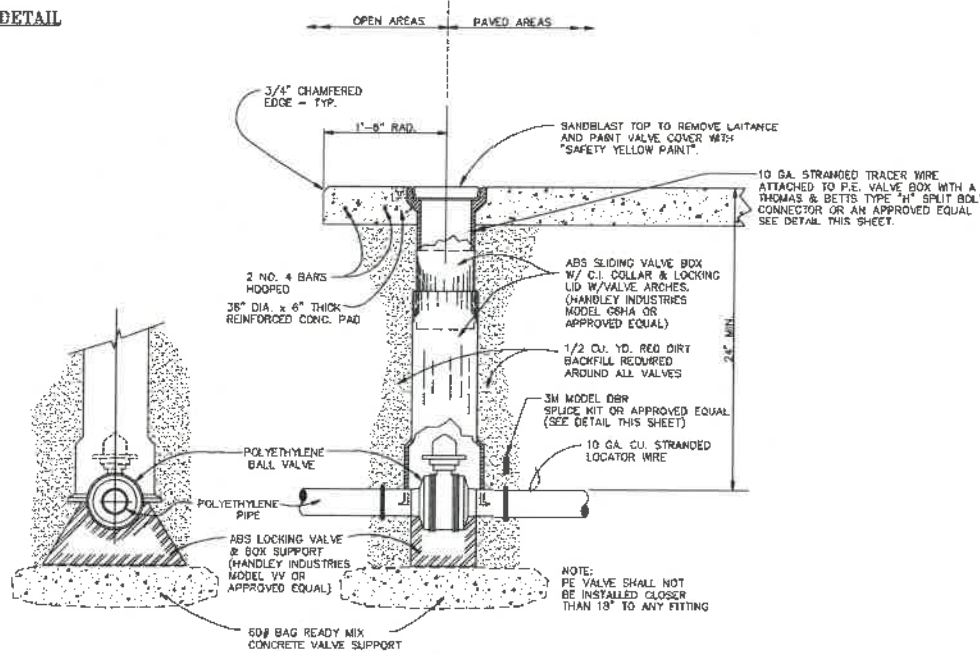
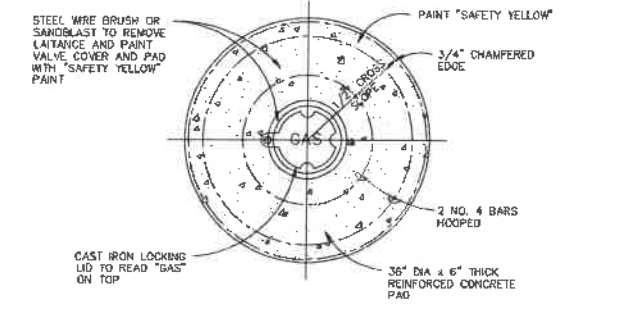
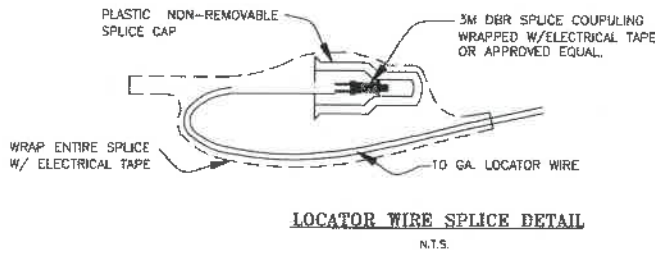
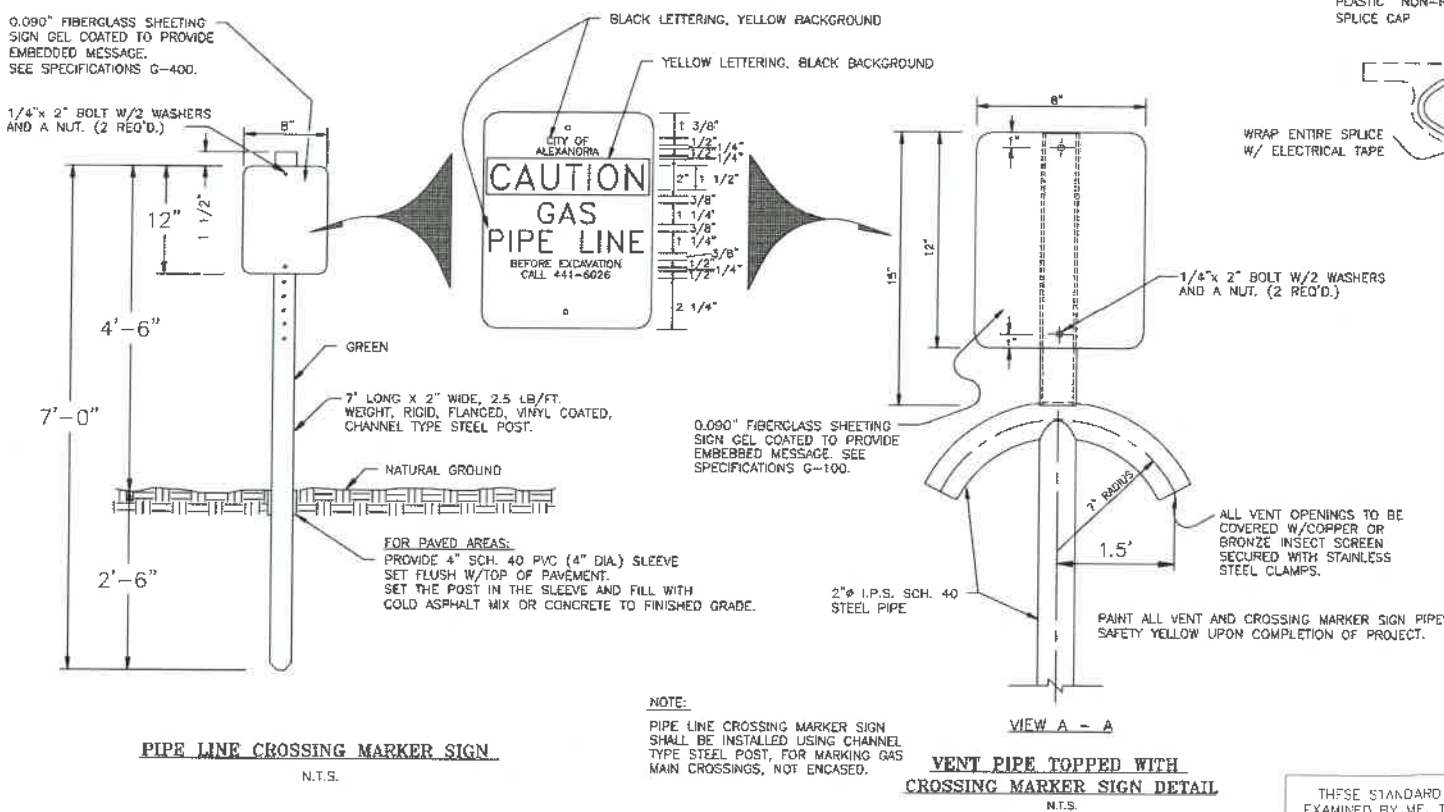
SHEET NUMBER
21
OF 29

COA GS-1



High Strength Split Bolt Connector, Equal Main and Tap Range 10 Stranded to 12 Solid, Conductor Range 14 Solid, Pressure Bar Material Copper

THOMAS & BETTS 9H SPLIT BOLT CONNECTOR OR APPROVED EQUAL N.T.S.



THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER, I HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODE AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.

Thomas C. David, Jr. 1/1/26 DATE



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DRAWN BY P.A.E.
DATE 8/26

REVISION	DATE
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	11461

DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL (SITE RELATED) 2026

SHEET NUMBER
22 OF 29

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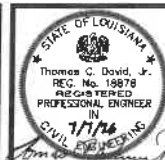
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ALEXANDRIA, LA. 71309

COA GS-2



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BOOK NO.: N/A	
JOB NO.: 11461	

DWG. NO. 13406
SCALE: NONE

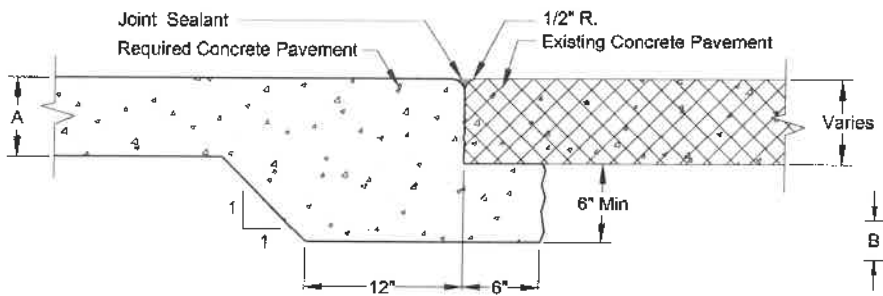
CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

OWNER: PROJECT

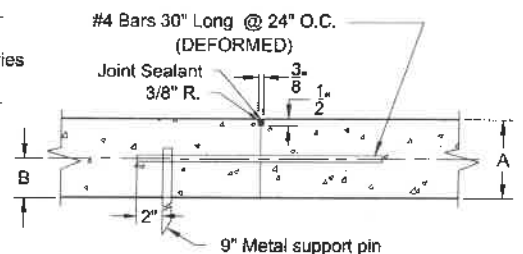
SHEET NUMBER
23
OF 29

TABLE								
	A	B	C	D	E	F	G	H
6" THICK CONCRETE PAVEMENT	6"	3"	5"	5 1/4"	2"	7/8"	8"	1 1/2"
8" THICK CONCRETE PAVEMENT	8"	4"	6"	7 1/4"	3"	1"	7"	2 1/2"

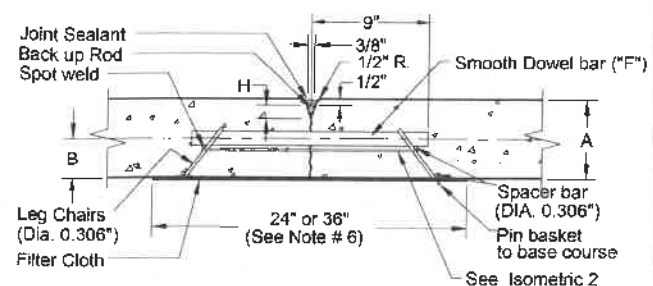
- NOTES**
- Pavement edges shall be lightly rounded. (1/2" approximately)
 - Reasonable tolerance to all dimensions will be allowed.
 - All joints to be used where shown on the construction plans or as otherwise directed by the engineer.
 - On type E.J. joints, are weld alternate ends of dowel bars to dowel baskets and place expansion tubes on alternate ends of dowel bars.
 - Dowel bars and the bars shall be held in place by supports similar to the ones shown, or approved equals. Approved mechanical placement of dowel bars will be allowed with all paving methods. When dowel bar baskets are used, spacer wires that span across the joint shall be cut and removed after staking baskets in place.
 - Install filter cloth under D.J. and E.J. joints. When dowel bars are mechanically implanted the filter cloth shall be anchored to the base course with pins.
 - Plastic or epoxy coated dowel bars shall be used. The dowel bars and the plastic coating shall conform to LADOTD Standard Specifications for Roads and Bridges, Sub-section 1009.04(s). The dowel bar size shall be as shown in the table on this sheet.
 - Expansion material for expansion joint to be located 6" from end of smooth dowel bar and 12" from remaining end adjacent to catch basin only. 6" end to be located in block out for catch basin.
 - Expansion joints shall be provided at 20' o.c.
 - Dummy joints shall be provided at 15' o.c.
 - Sealant shall be a bitumen modified polyurethane; one part, pourable and self leveling. The sealant shall meet the performance requirements of Federal Specification TT-3-00290C, Type I, Class A and shall be Sonosorb-1 sealant as manufactured by Sonosorb Building Products, 7711 Computer Avenue, Minneapolis, MN 55435, or approved equal.



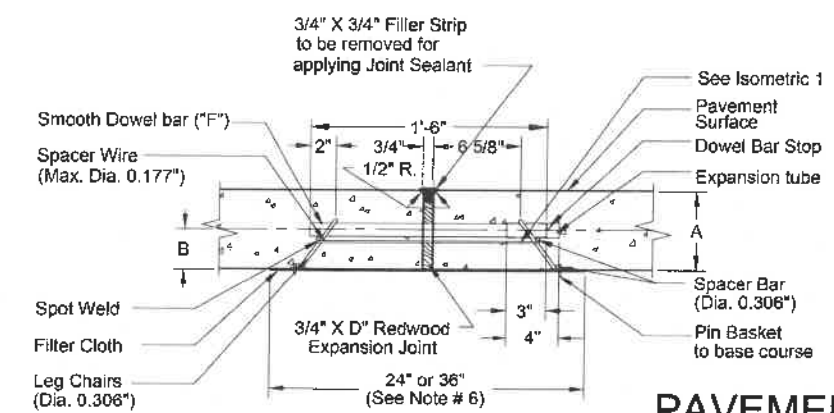
TYPE - C.J.
CONSTRUCTION JOINT



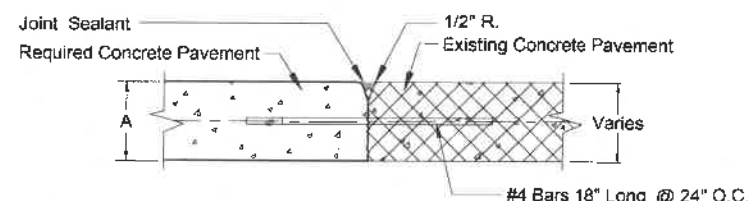
TYPE - L.C.J.
LONGITUDINAL CONSTRUCTION JOINT



TYPE - D.J.
DUMMY JOINT

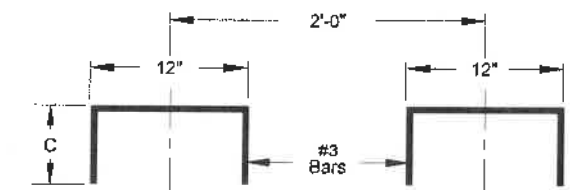


TYPE - E.J.
EXPANSION JOINT

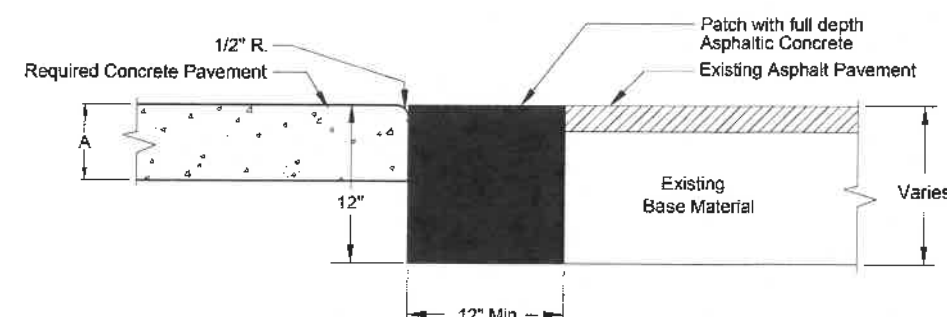


TYPE - S.D.J.
SPECIAL DUMMY JOINT

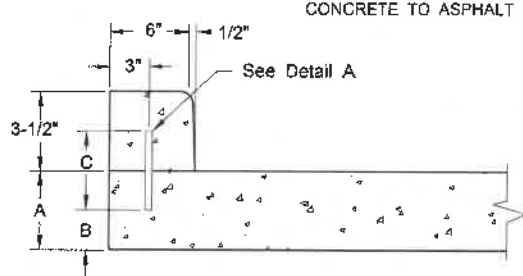
PAVEMENT JOINT DETAILS



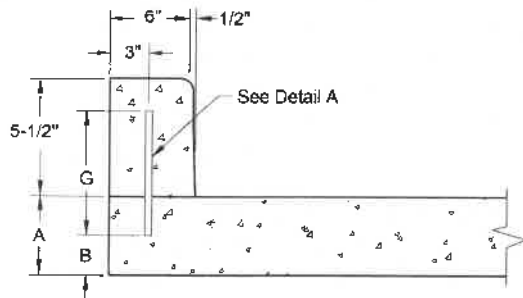
Either style Construction is acceptable
DETAIL A
Curb Reinforcement
TYPICAL CURB DETAILS (Rebar)



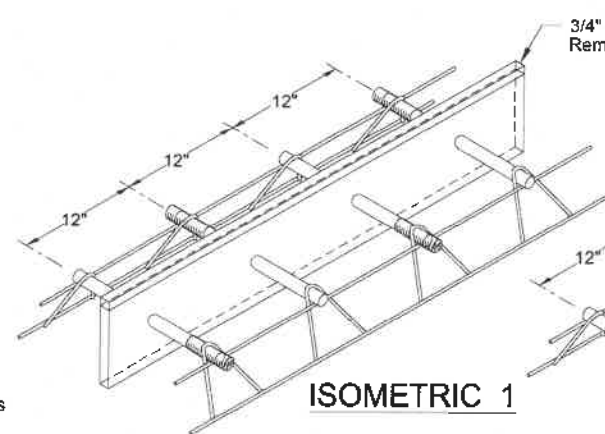
TYPE - C.A.
CONCRETE TO ASPHALT



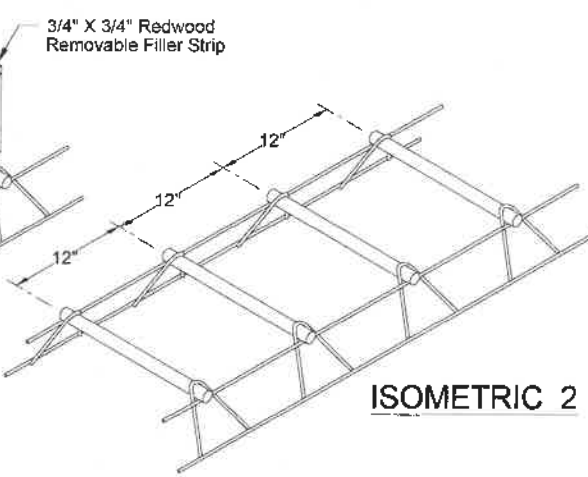
4" BARRIER TYPE CURB DETAIL



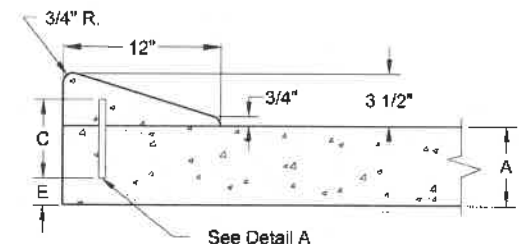
6" BARRIER TYPE CURB DETAIL



ISOMETRIC 1



ISOMETRIC 2



MOUNTABLE TYPE CURB DETAIL

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Thomas C. David, Jr.
THOMAS C. DAVID, JR.
DATE: 7/7/14

COA SP-01-A

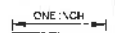
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THESE DRAWINGS DO NOT INCLUDE COMPONENTS FOR CONSTRUCTION SAFETY.

SCALE NOTE
SCALE BAR SHOWN IS ONE INCH LONG AT FULL SCALE WHEN SCALING DRAWINGS. MEASURE BAR TO DETERMINE IF SCALE SHOWN WILL REQUIRE ADJUSTING.



PAN AMERICAN ENGINEERS, LLC
P.O. BOX 88 / 1717 JACKSON STREET
ALEXANDRIA, LA. 71309



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☒ THIS DRAWING IS APPROVED FOR CONSTRUCTION.
☐ THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION.

DRAWN BY: P.A.E.
DATE: 8/26

REVISION	DATE
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	11461

DWG. NO. 13406
SCALE NONE

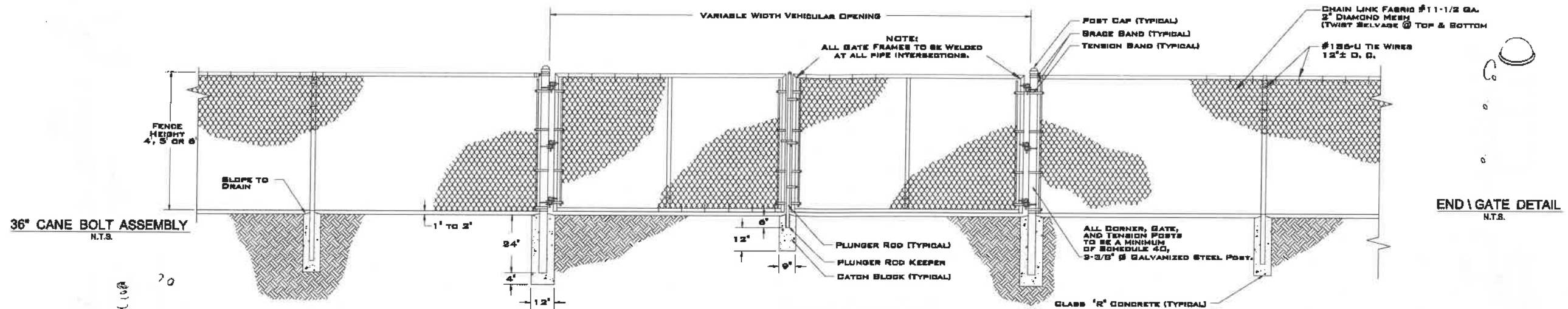
CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

OWNER
PROJECT

SHEET NUMBER

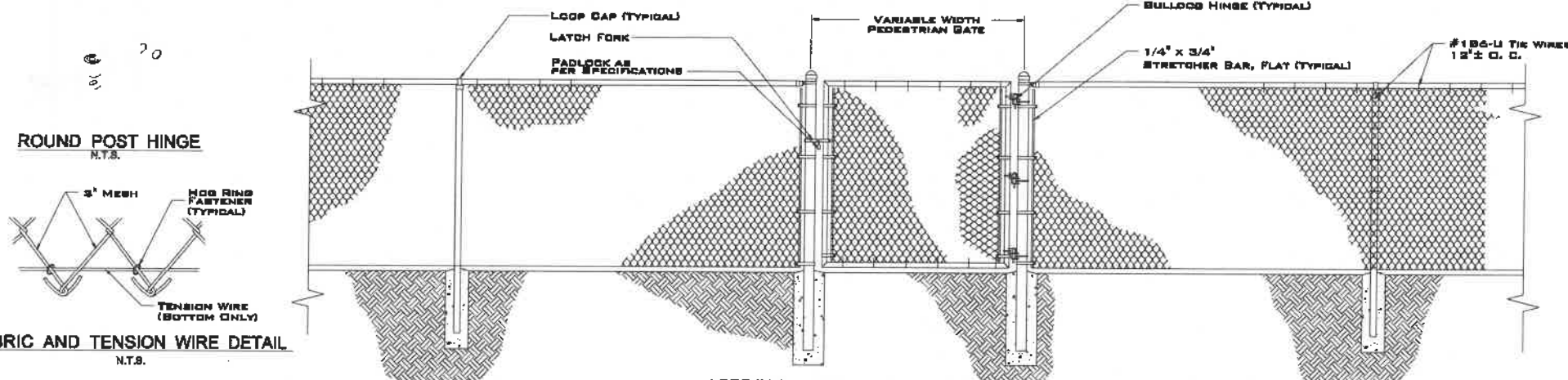
24
OF 29

COA FR-01



END GATE DETAIL
N.T.S.

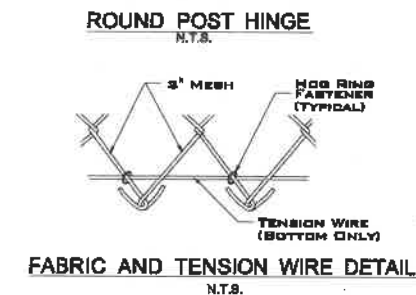
DOUBLE VEHICLE GATE



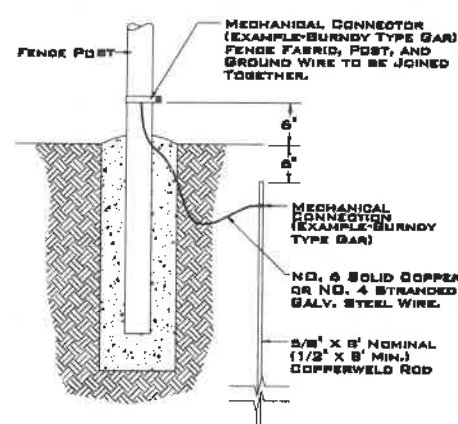
GATE LATCH
N.T.S.

NOTES

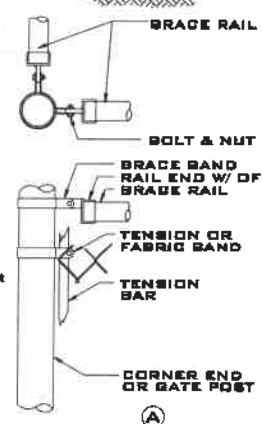
- The fence installation and details are typical and may vary in accordance with different manufacturers, provided that they meet the standard specifications.
- Typical installation plan may vary as shown on the plans or as directed by Engineer. Location of gates to be shown on plans.
- All connection methods to be approved by Project Engineer.
- For gates widths - Single Gates = 3' Width Maximum. Double Gates = 24' Width Maximum.
- Ground Wire assembly, as per detail on this sheet, shall be installed at all gate locations, any time the fence crosses electrical lines, and every 500 feet.
- Gate Hinges to be tack welded to gate post and frames to prevent vandalism of gates.
- Corner fence assemblies to copy that of Tension Pull Post.
- All Corner, Gate, and Tension Post shall have 28" Deep by 12" Diameter Concrete Foundation. All Line Post shall have 28" Deep by 8" Diameter Concrete Foundation.



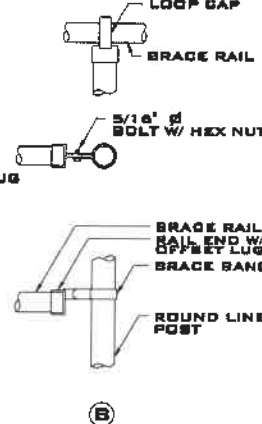
ROUND POST HINGE
N.T.S.



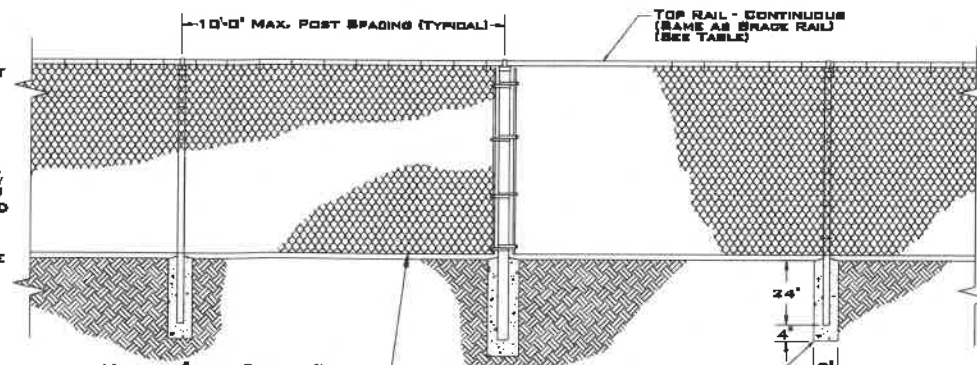
GROUND WIRES DETAIL FOR FENCES
N.T.S.



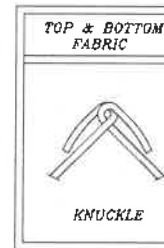
ROUND TERMINAL POSTS



PEDESTRIAN GATE



TENSION OR PULL POST
(Tension Post Spacing Not To Exceed 300')



	OUTSIDE DIA. (INCHES)	POUNDS PER LIN. FT.
LINE POST	1 5/8"	2.27
BRACE & TOP RAILS	1 3/8"	1.60
GATE CORNER & PULL POST	2 3/8"	3.65
GATE FRAME	1 3/8"	1.60

TABLE

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THOMAS C. DAVID, JR.
DATE 7/1/16

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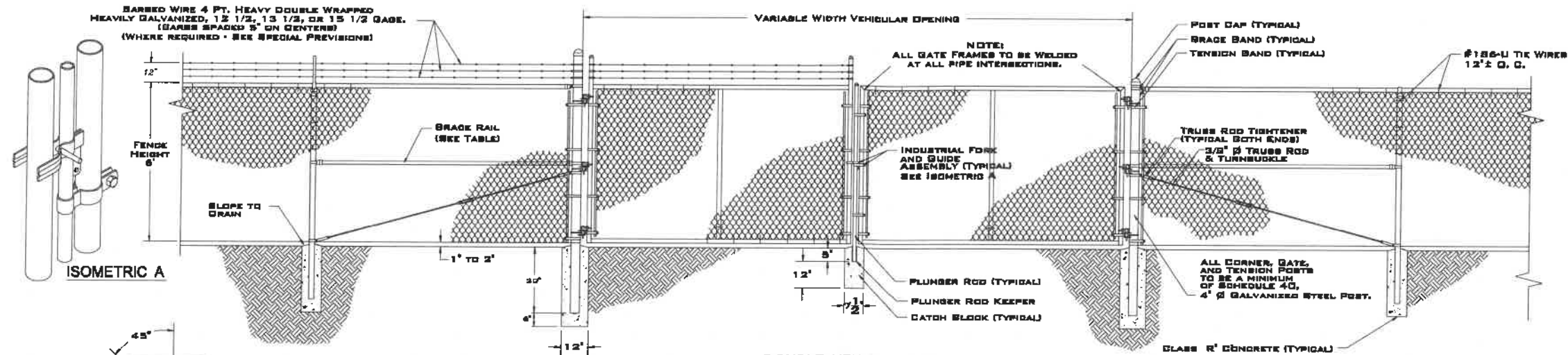
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SCALE NOTE
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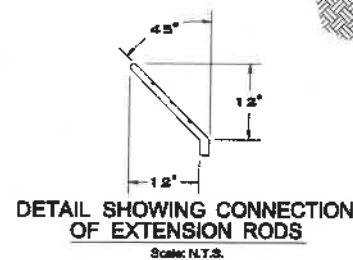
ONE INCH



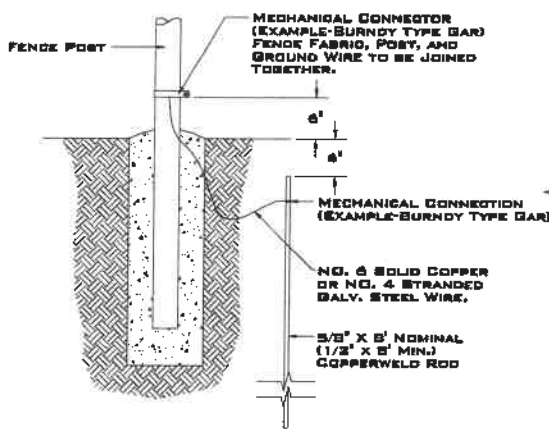
PAN AMERICAN ENGINEERS, L.L.C.
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ALEXANDRIA, LA. 71309



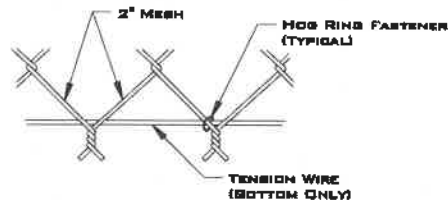
DOUBLE VEHICLE GATE



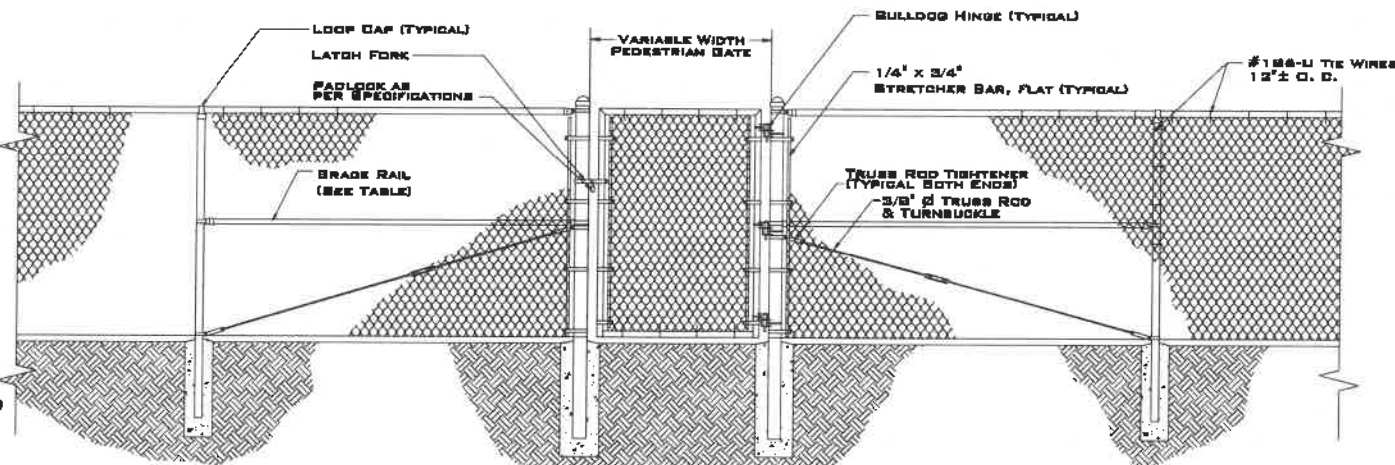
DETAIL SHOWING CONNECTION OF EXTENSION RODS
Scale: N.T.S.



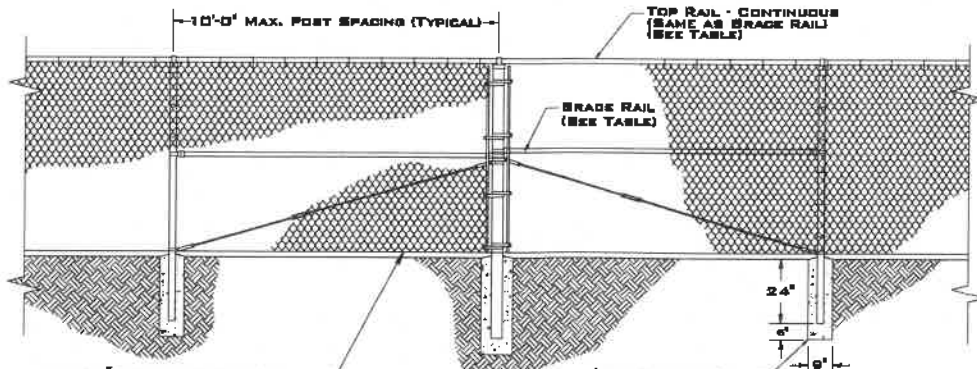
GROUND WIRES DETAIL FOR FENCES
N.T.S.



FABRIC AND TENSION WIRE DETAIL
N.T.S.



PEDESTRIAN GATE



TENSION OR PULL POST
(Tension Post Spacing Not To Exceed 300')

NOTES

1. THE FENCE INSTALLATION AND DETAILS ARE TYPICAL AND MAY VARY IN ACCORDANCE WITH DIFFERENT MANUFACTURERS, PROVIDED THAT THEY MEET THE STANDARD SPECIFICATIONS.
2. TYPICAL INSTALLATION PLAN MAY VARY AS SHOWN ON THE PLANS OR AS DIRECTED BY ENGINEER. LOCATION OF GATES TO BE SHOWN ON PLANS.
3. ALL CONNECTION METHODS TO BE APPROVED BY PROJECT ENGINEER.
4. FOR GATES WIDTHS - SINGLE GATES = 15' WIDTH MAXIMUM. DOUBLE GATES = 25' WIDTH MAXIMUM.
5. GROUND WIRE ASSEMBLY, AS PER DETAIL ON THIS SHEET, SHALL BE INSTALLED AT ALL GATE LOCATIONS, ANY TIME THE FENCE ORDERS ELECTRICAL LINES, AND EVERY 300 FEET.
6. GATE HINGES TO BE TACK WELDED TO GATE POST AND FRAMES TO PREVENT VANDALISM OF GATES.
7. CORNER FENCE ASSEMBLY TO COPY THAT OF TENSION PULL POST.
8. BARBED WIRE FOR TOP OF FENCE TO BE PROVIDED WHEN SPECIFIED ON PLANS, SPECIFICATIONS OR ON PROPOSAL FORM.
9. ALL CORNER, GATE, AND TENSION POST SHALL HAVE 36" DEEP BY 12" DIAMETER CONCRETE FOUNDATION. ALL LINE POST SHALL HAVE 36" DEEP BY 9" DIAMETER CONCRETE FOUNDATION.

	OUTSIDE DIA. (INCHES)	POUNDS PER LIN. FT.
LINE POST	2 3/8"	3.65
BRACE & TOP RAILS	1 5/8"	2.27
GATE CORNER & PULL POST	4"	9.10
GATE FRAME	1 7/8"	2.71

TABLE

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Thomas C. David, Jr. 7/7/26
DATE

COA FC-01

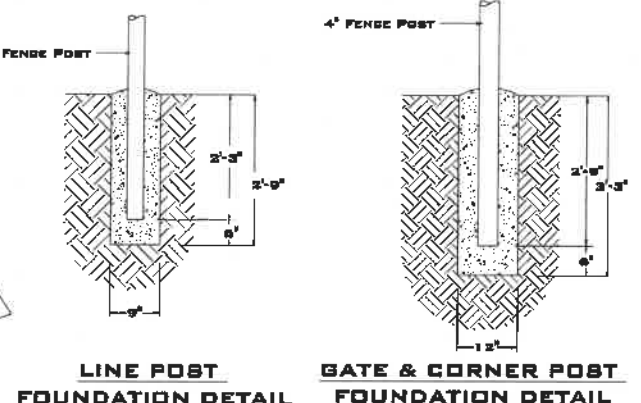
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3. ALL CONNECTION METHODS TO BE APPROVED BY PROJECT ENGINEER.
4. FOR GATES WIDTHS - SINGLE GATES = 3' - 6' WIDTH, DOUBLE GATES = 12' WIDTH MAXIMUM.
5. GATE HINGE BOLTS SHALL BE BURIED ON ENDS TO PREVENT VANDALISM OF GATES.
6. ALL CORNER, AND GATE, POST SHALL HAVE 39" DEEP BY 12" DIAMETER CONCRETE FOUNDATION. ALL LINE POST SHALL HAVE 39" DEEP BY 6" DIAMETER CONCRETE FOUNDATION.
7. SEE TECHNICAL SPECIFICATIONS FOR INFORMATION REGARDING FENCE FASTENERS FOR THIS SHEET.
8. NO MORE THAN ONE SPLICE PER PANEL.

OUTSIDE DIA. (INCHES)	POUNDS PER LIN. FT.
2 3/8"	3.65
4"	9.10
1 7/8"	2.71

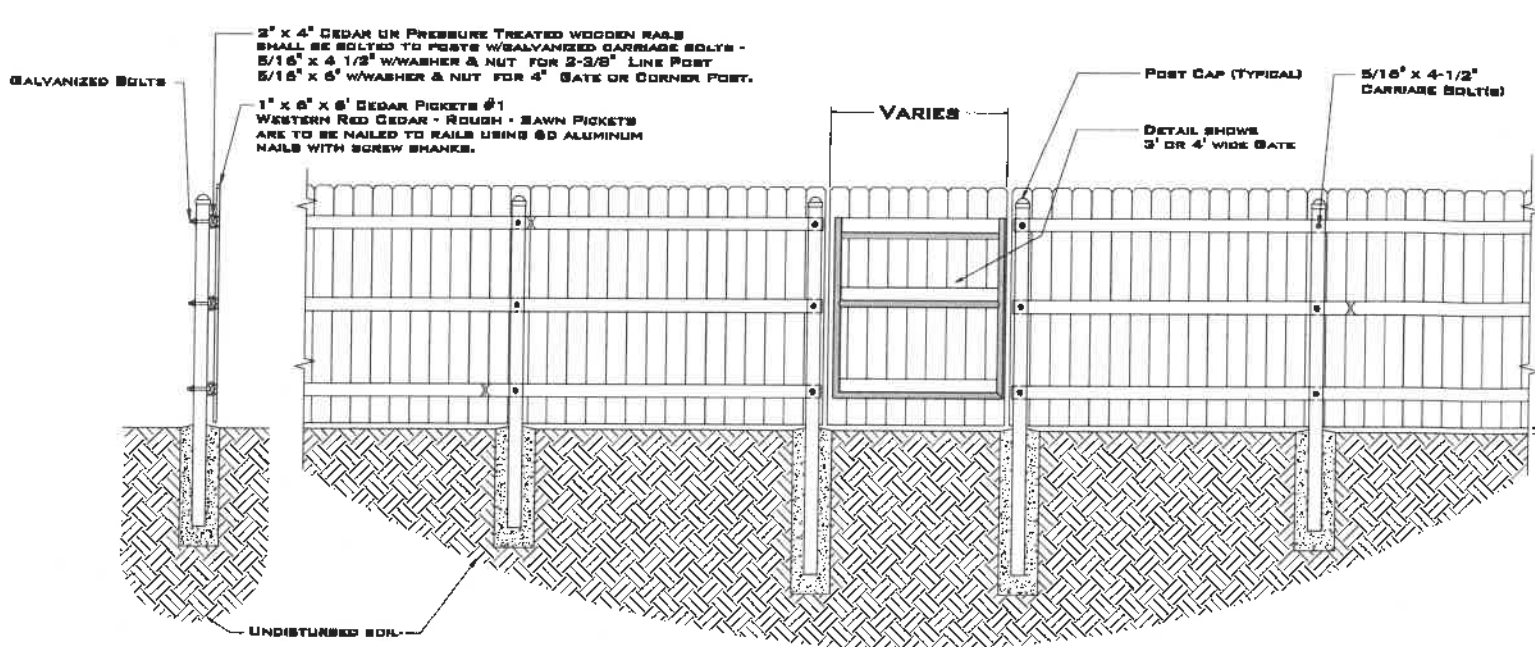
TABLE

LINE POST	2 3/8"	3.65
GATE AND CORNER POST	4"	9.10
GATE FRAME	1 7/8"	2.71



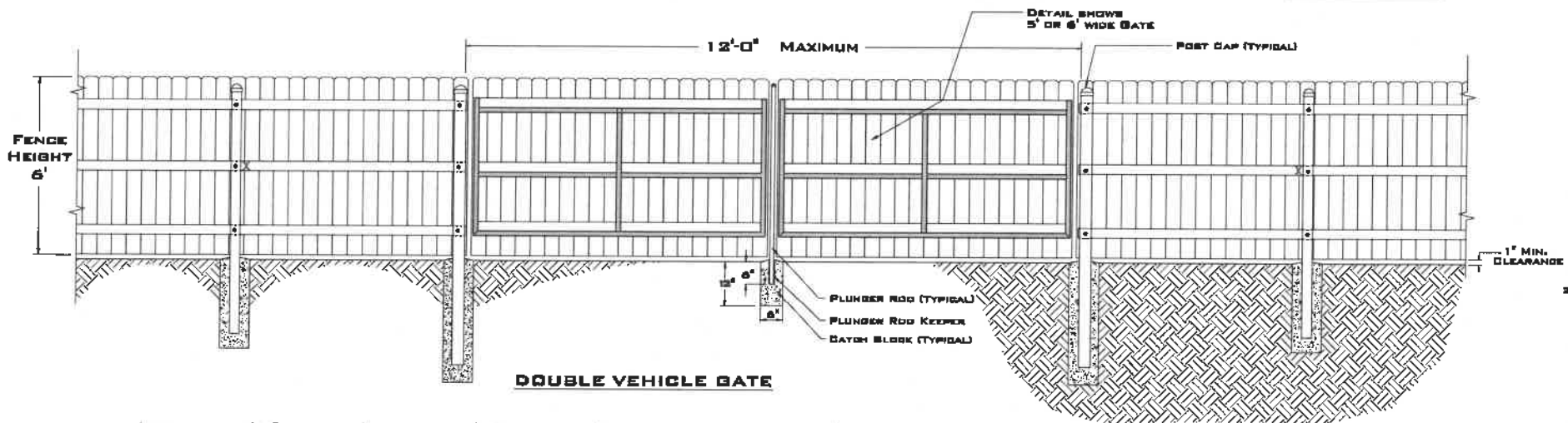
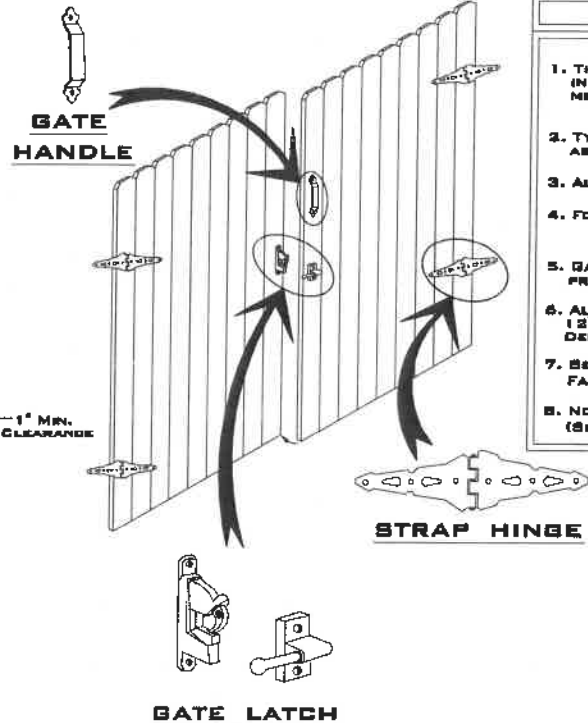
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THOMAS C. DAVID, JR. 1/7/16 DATE

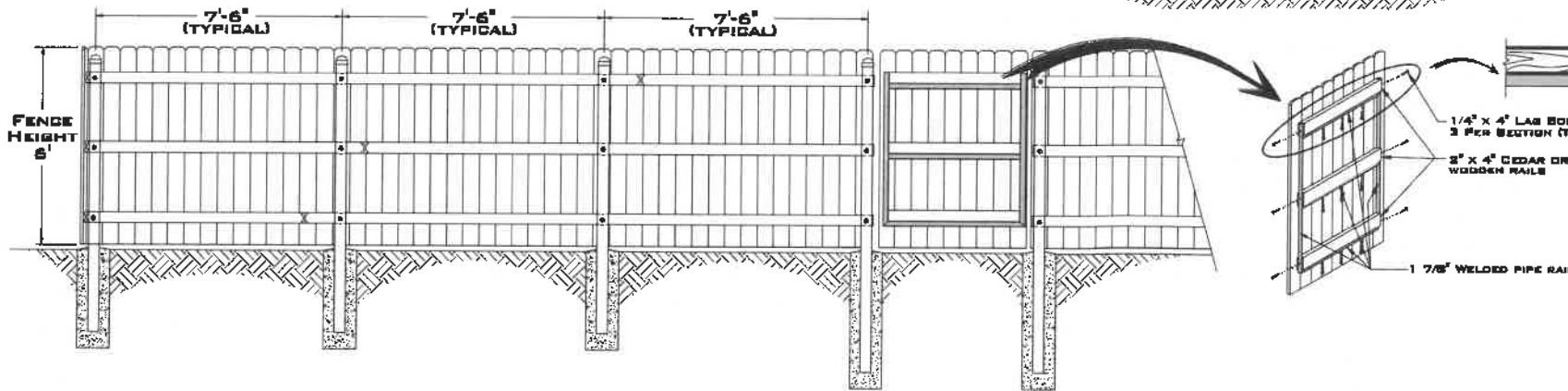


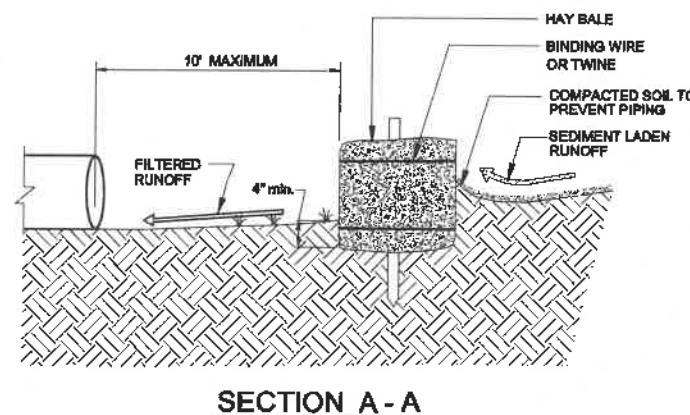
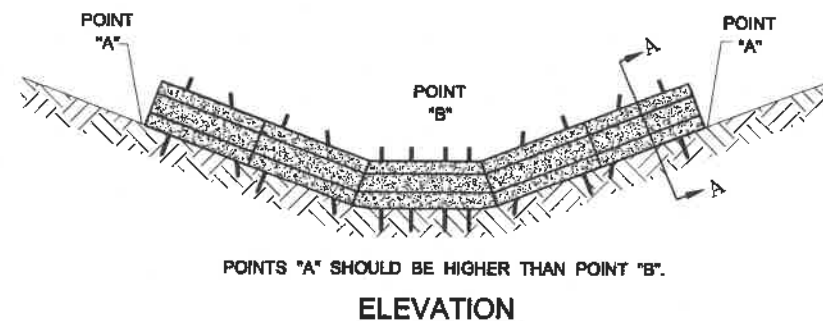
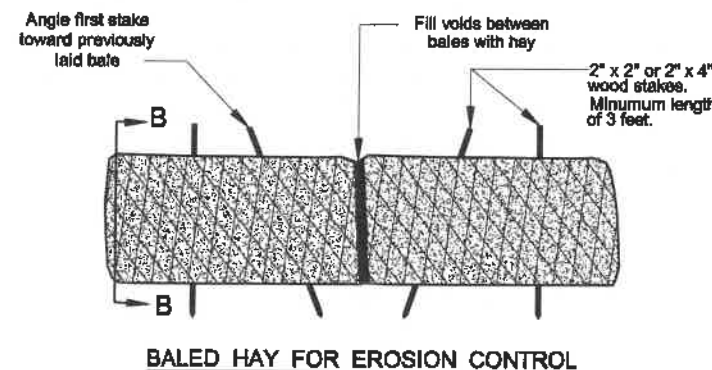
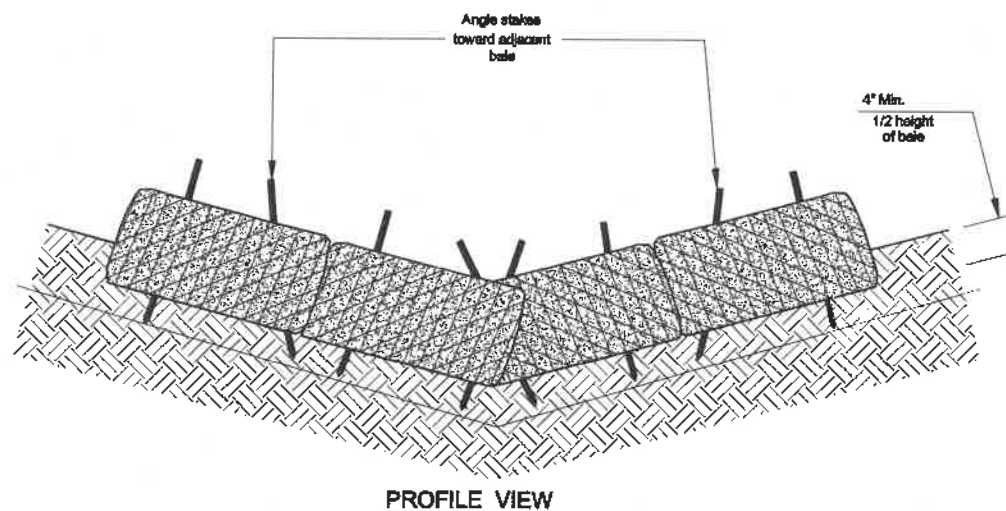
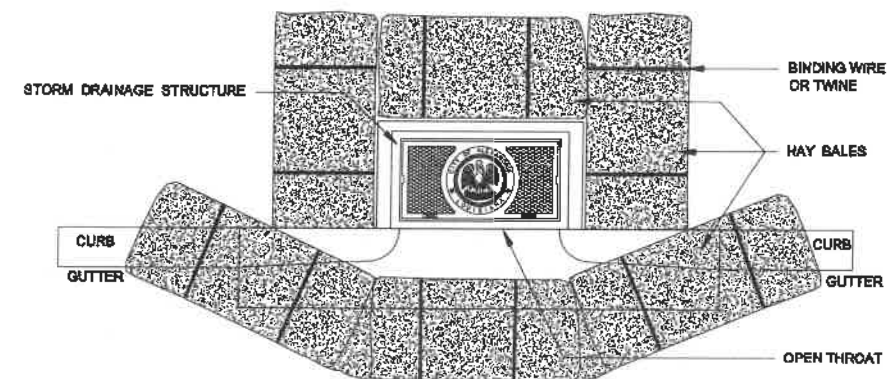
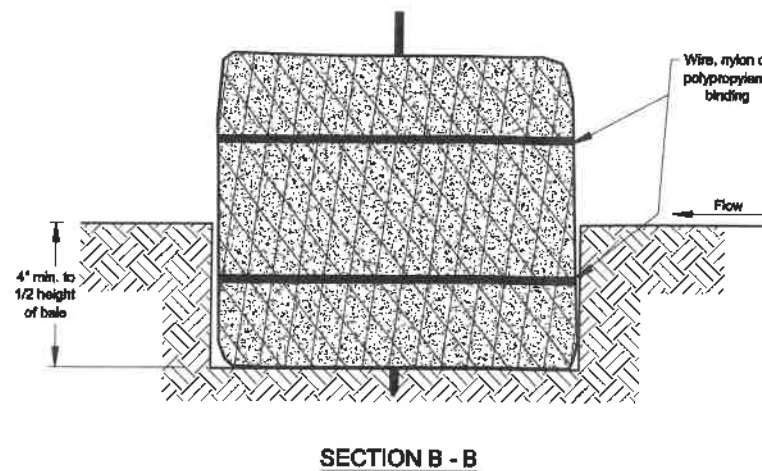
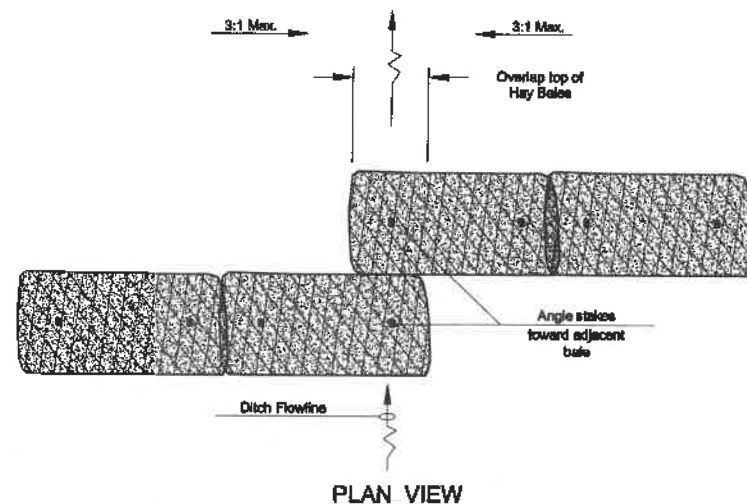
SIDE VIEW

PEDESTRIAN GATE



DOUBLE VEHICLE GATE





TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES - (TEMPORARY HAY BARRIER)

A hay barrier is a temporary sediment barrier consisting of a row of entrenched and anchored bales of straw or hay. The hay bale barrier is also used as a check dam to reduce the velocity in small ditches or swales.

A few basic design guidelines for the use of a Hay Bale Barrier are:

1. Use where erosion would occur in the form of sheet and rill erosion.
2. Use in minor swales or ditches where the maximum drainage area is 1 acre.
3. Only use where the effectiveness is required for less than 3 months.
4. Do not use in live streams or in swales or ditches where there is a possibility of a washout.
5. Hay bales shall be in accordance with Technical Specification EC-100.

For Baled Hay installations in small ditches, the additional following considerations apply:

1. The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
2. The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.

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THOMAS C. DAVID, JR. 7/7/16 DATE

COA EC-01-A



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☐ THIS DRAWING IS NOT APPROVED FOR CONSTRUCTION.

DRAWN BY P.A.E.
DATE 8/25

REVISION	DATE
CHECKED T.C.D.	
BOOK NO. N/A	
JOB NO. 11461	

DWG. NO. 13406
SCALE NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026

SHEET NUMBER
27
OF 29

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ONE INCH



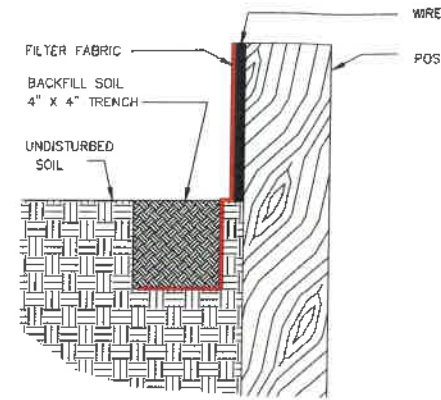
PAN AMERICAN ENGINEERS, LLC
P.O. BOX 99 / 1717 JACKSON STREET
ALEXANDRIA, LA. 71308

NOTES - (TEMPORARY SILT FENCING)

Silt fencing is a temporary sediment barrier consisting of a filter fabric supported by post and stretched across an area to intercept and detain small amounts of sediment. The silt fencing shall be installed in accordance with EC-100 of the Technical Specifications.

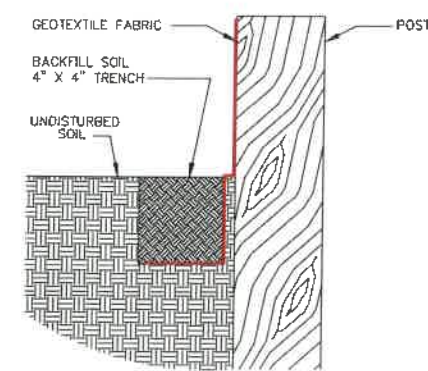
A few basic guidelines for the use of Silt fencing are:

1. Use where erosion would occur in the form of sheet and rill erosion.
2. Use where the maximum slope length behind the barrier is 100 feet.
3. Do not use silt fences in live streams or in ditches or swales where flows exceed one cubic foot per second.
4. Staple spacing for connection of filter fabric or wire fencing to wooden posts shall be a maximum of 6 inches.
5. Wood posts shall be driven into the ground at an adequate depth to support fencing.

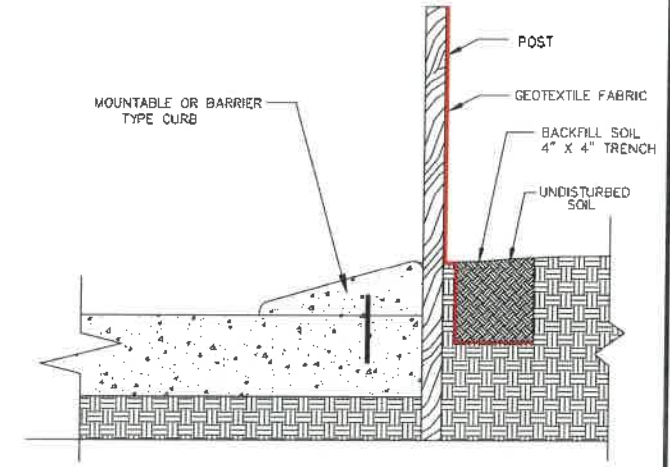


EXTENSION OF FABRIC INTO THE TRENCH

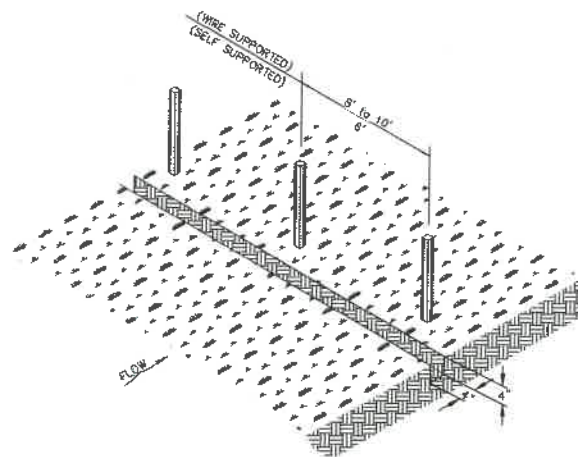
(Wire supported silt fence is shown. Self supported silt fence will be constructed according to manufacturers specifications.



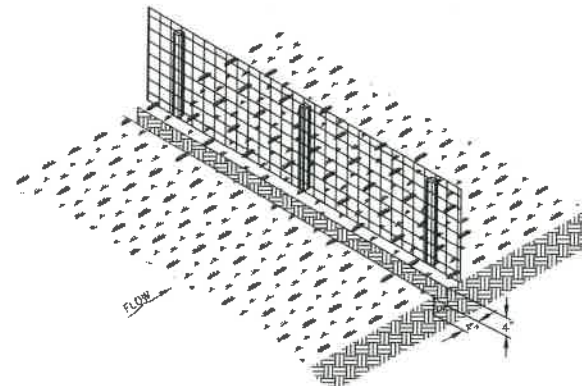
SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC



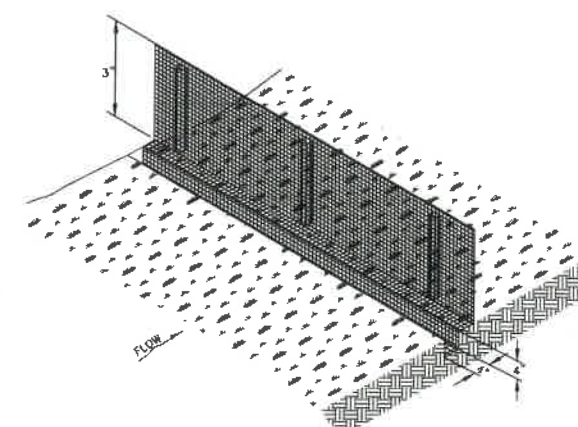
TEMPORARY SILT FENCING BEHIND BACK OF CURB



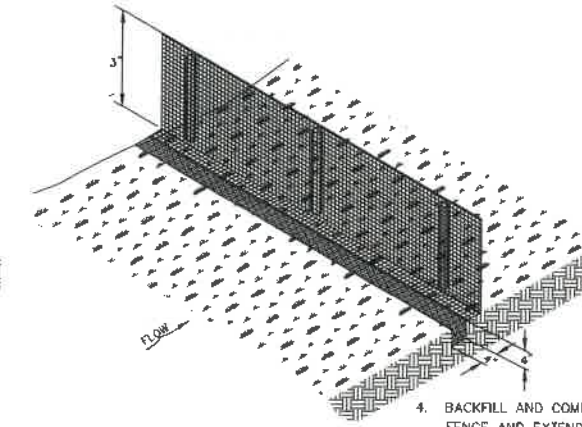
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



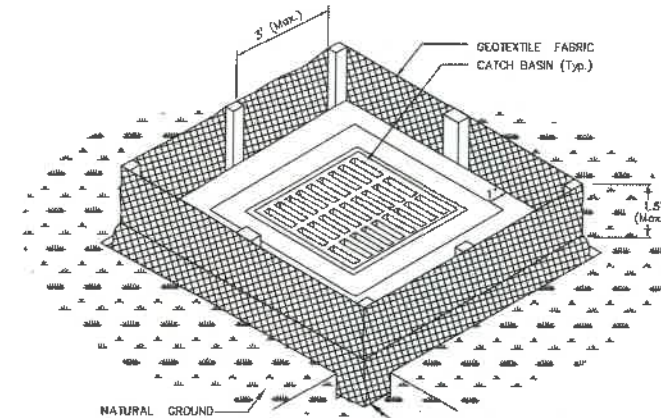
2. STAPLE WIRE FENCING TO THE POSTS.



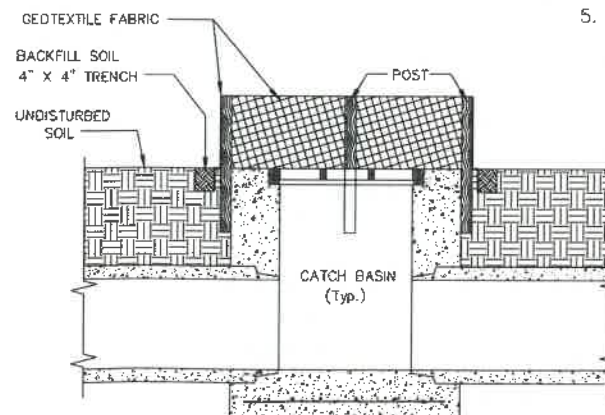
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT EXCAVATED SOIL FENCE AND EXTEND IT INTO THE TRENCH.



ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC (BACK FILL SOIL NOT SHOWN)



SECTIONAL VIEW SHOWING GEOTEXTILE FABRIC

(FOR CATCH BASIN LOCATED OUTSIDE THE LIMITS OF THE ROADWAY)

NOTES - (TEMPORARY DROP INLET SILT TRAP)

The temporary drop inlet silt trap is to be used for small drainage areas (less than 1 acre) where the storm drain is functional before the area is stabilized. The trap can be either geotextile fabric or hay bales.

1. The geotextile fabric shall conform to Section 1019 (Type G) of the LA DOTD Standard Specifications, Latest Edition.
2. Wooden stakes supporting the fabric shall be 2" x 2" or 2" x 4" with a minimum length of 3 feet. The stakes shall be spaced around the inlet at a maximum spacing of 3 feet.
3. The height of the fabric above the inlet shall be limited to 1.5' and the bottom of the fabric shall be buried in a trench approximately 4" wide by 4" deep. The fabric shall be stapled to the post with 1/2" staples.
4. The trap should be inspected regularly and after each storm. The sediment should be removed and make sure each stake is firmly in the ground.
5. Temporary drop inlet silt trap shall be installed outside the limits of the roadway and/or all traffic areas.

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THOMAS C. DAVIS, JR. 1/1/16
DATE

COA EC-01-B



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DRAWN BY: P.A.E.
DATE: 8/26

REVISION	DATE
CHECKED	T.C.D.
BOOK NO.	N/A
JOB NO.	11461

DWG. NO.: 13406
SCALE: NONE

CITY OF ALEXANDRIA, LOUISIANA
ANNUAL REQUIREMENTS CONTRACT
WATER, WASTEWATER, NATURAL GAS AND GENERAL
(SITE RELATED)
2026
OWNER: PROJECT

SHEET NUMBER
28
OF 29

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



CALL LOUISIANA ONE CALL - JUST DIAL 811
LOUISIANA STATE LAW, SECTION 9:48-1749.5, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 48 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.

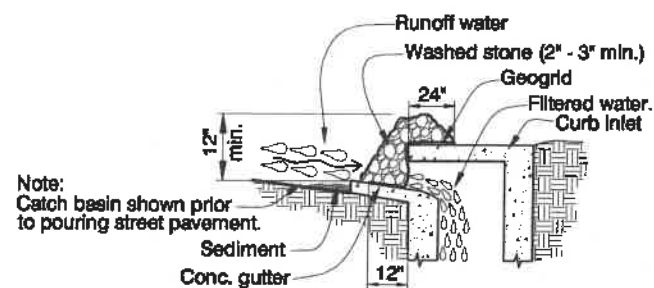
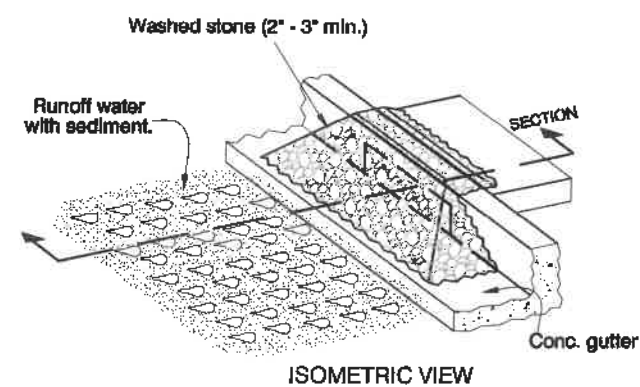
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SCALE NOTE
SCALE BAR SHOWN IS ONE INCH LONG AT FULL SCALE WHEN SCALING DRAWINGS. MEASURE BAR TO DETERMINE IF SCALE SHOWN WILL REQUIRE ADJUSTING.

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P.O. BOX 89 / 1717 JACKSON STREET
ALEXANDRIA, LA.
71309

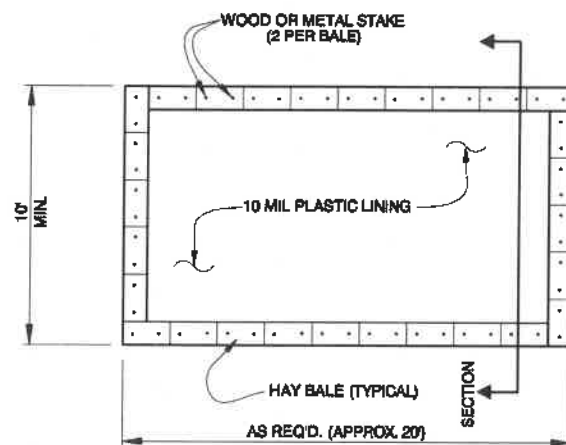


SPECIFIC APPLICATION

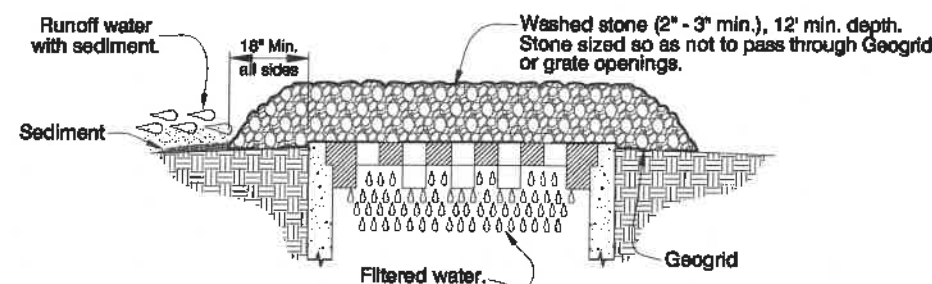
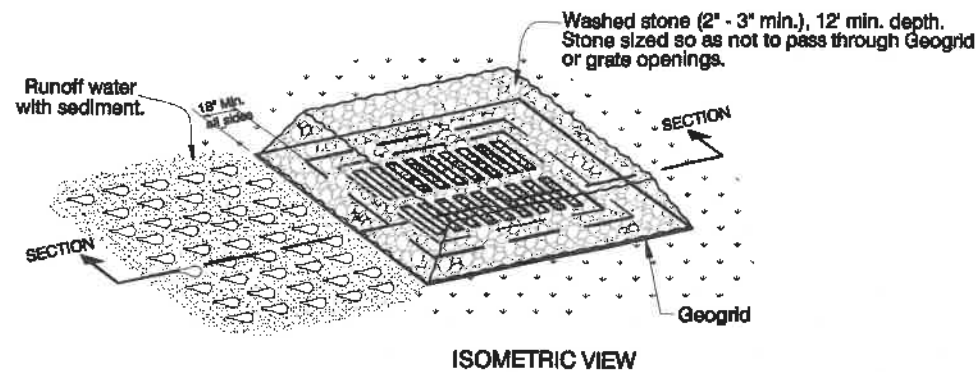
This method of inlet protection is applicable at curbside inlets where ponding in front of the structure is not likely to cause inconvenience or damage to adjacent structures and unprotected areas.

SECTION STONE AND GEOGRID SEDIMENT FILTER AT EXISTING CATCH BASIN

Note: Maintenance and Inspection per Storm Water Pollution Prevention Plan.



CONC. WASHOUT PIT PLAN

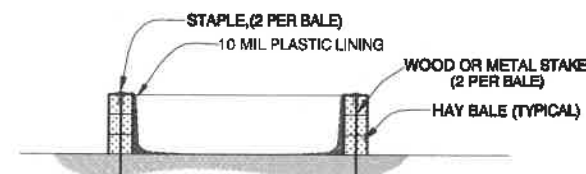


SPECIFIC APPLICATION

This method of inlet protection is applicable where heavy concentrated flows are expected, but not where ponding around the structure might cause excessive inconvenience or damage to adjacent structures and unprotected areas.

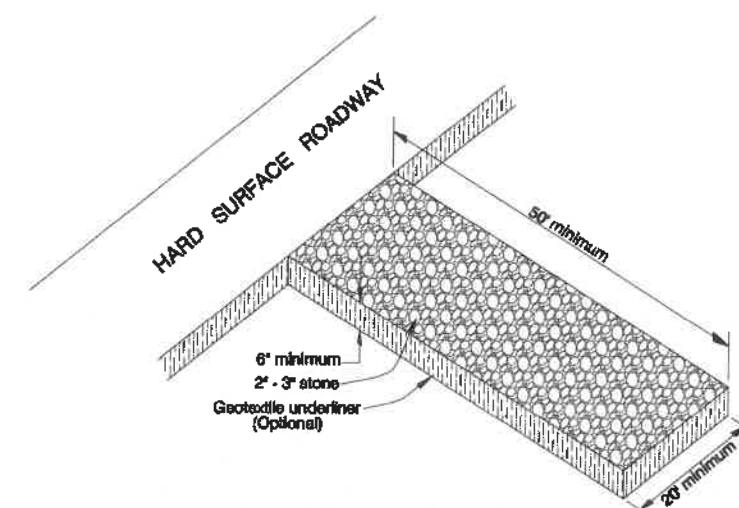
SECTION STONE AND GEOGRID SEDIMENT FILTER AT GRATED DROP INLET

Note: Maintenance and Inspection per Storm Water Pollution Prevention Plan.

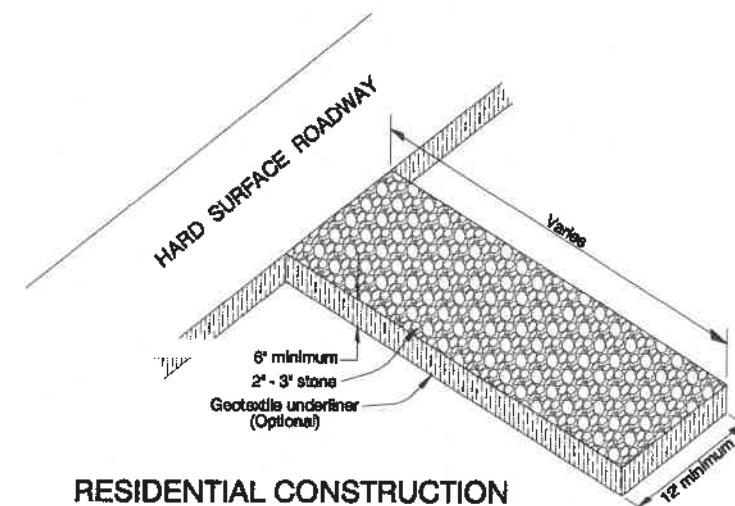


SECTION

NOTE: PLASTIC LINING WILL BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.



COMMERCIAL CONSTRUCTION SITE ENTRANCE



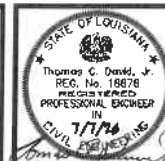
RESIDENTIAL CONSTRUCTION SITE ENTRANCE

Note: Can be installed at the location of the proposed driveway using intended driveway size as a minimum.

THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER, HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODES AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.

Thomas C. David, Jr. 7/7/26
THOMAS C. DAVID, JR. DATE

COA EC-01-C



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DRAWN BY: P.A.E.
DATE: 8/26

REVISION	DATE
CHECKED: T.C.D.	
BOOK NO. N/A	
JOB NO. 11461	

DWG. NO. 13406
SCALE: NONE

CITY OF ALEXANDRIA, LOUISIANA
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