

**CITY OF BATON ROUGE
PARISH OF EAST BATON ROUGE
DEPARTMENT OF PUBLIC WORKS
SEWER ENGINEERING DIVISION**

September 1, 2016

ADDENDUM NO. 4

TO: ALL BIDDERS

SUBJECT: FLORIDA BOULEVARD PUMP STATION IMPROVEMENTS
CITY-PARISH PROJECT NO. 11-PS-MS-0003

ORIGINAL BID DATE: Tuesday, August 16, 2016 at 2:00 PM

CURRENT BID DATE: Tuesday, September 13, 2016 at 2:00 PM

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract documents:

PART 1 – UNIFORM CONSTRUCTION BID FORMS:

1. For paper sealed bidders, with reference to page UCBF 1 of 4 of Part 1, Uniform Construction Bid Form, the Bidder shall indicate the receipt of this addendum in the space provided. For online Bid Express bidders, an acknowledgement of this addendum will be prompted by the electronic bidding program prior to formally submitting the bid. Failure to indicate the receipt of this addendum shall be cause for the bid to be rejected.
2. Acting in accordance with Louisiana Revised Statutes 38.2212, O.(1), the bid opening date is postponed by two (2) calendar days. **Bids will be opened at 2:00 PM Tuesday, September 13, 2016 in Room 806 of City Hall**, in lieu of 2:00 PM Tuesday, September 6, 2016.

PART 2 – SPECIAL PROVISIONS AND CONTRACT DOCUMENTS:

1. For paper sealed bidders, with reference to page UCBF 1 of 4 of Part 1, Uniform Construction Bid Form, the Bidder shall indicate the receipt of this addendum in the space provided. For online Bid Express bidders, an acknowledgement of this addendum will be prompted by the electronic bidding program prior to formally submitting the bid. Failure to indicate the receipt of this addendum shall be cause for the bid to be rejected.
2. Acting in accordance with Louisiana Revised Statutes 38.2212, O.(1), the bid opening date is postponed by two (2) calendar days. **Bids will be opened at 2:00 PM Tuesday, September 13, 2016 in Room 806 of City Hall**, in lieu of 2:00 PM Tuesday, September 6, 2016.

SPECIAL CONDITIONS

1. Section 44 31 21.13 Packaged Biofilters, Subsection 2.01 A, Delete the last three (3) sentences and Replace with "Acceptable manufacturers are BIOREM Technologies, Inc., Siemens, Daniel Mechanical, ECS Environmental Solutions, or approved equal."

DRAWINGS

2. Insert attached Sheet No. 31-C-17.
3. Insert attached Sheet No. 101-C-07.
4. Sheet Nos. 21-C-05, 66-C-03, 66-C-05, 101-C-03, 101-C-04, 101-C-05, 101-C-06, Delete ARV symbol shown on above-ground common discharge line.
5. Delete Sheets 16-M-01, 18-M-01, 66-M-01, 101-M-01, 151-M-01, and Replace with the attached Revised EBR Parish Standard Plan No. 805-02 (1 of 2).
6. Sheets 16-M-02, 18-M-02, 21-M-02, 66-M-02, 101-M-02, and 151-M-02, in Dimensions Table, Delete "E – Gate Valve" and Replace with "E – Plug Valve".
7. Delete Sheet 21-M-01 and Replace with the attached Revised EBR Parish Standard Plan No. 805-03 (1 of 2).
8. Delete EBR Parish Standard Plan No. 801-01 and Replace with attached Revised EBR Parish Standard Plan No. 801-01.
9. Delete EBR Parish Standard Plan No. 802-01 (1 of 2) and (2 of 2) and Replace with attached Revised EBR Parish Standard Plan No. 802-01 (1 of 2) and (2 of 2).
10. Delete EBR Parish Standard Plan No. 803-01 (1 of 3) and Replace with attached Revised EBR Parish Standard Plan No. 803-01 (1 of 3).
11. Delete EBR Parish Standard Plan No. 804-01 (1 of 2) and Replace with attached Revised EBR Parish Standard Plan No. 804-01 (1 of 3).
12. Delete EBR Parish Standard Plan No. 805-04 (1 of 2) and (2 of 2) and Replace with attached Revised EBR Parish Standard Plan No. 805-04 (1 of 2) and (2 of 2).

COMMENTS AND QUESTIONS:

1. **Contractors shall note revised requirements for combination air release/vacuum relief valve (CARVs) assemblies as shown on Revised Standard Plan No. 805-02 and 805-03. As indicated, CARVs shall be provided atop the vertical riser pipe for each pump at each duplex/triplex station as shown on the revised standard drawings. For duplex stations PS 16, PS 18 and PS 151, CARV installations shall also be provided on the common discharge piping (above-grade) as shown on the original Standard Plans No. 805-02 and 805-03. For all other duplex and triplex stations, the Revised Standard Plan No. 805-02 and 805-03 shall govern. See Table 1 below for a tabulation of CARVs for all duplex/triplex stations."**

Table 1. CARV Assembly Summary for Duplex / Triplex Stations

Station No.	Type	Total No. of CARVs	Description
PS 16	Duplex	3	One for each pump discharge riser (2 total); one for common discharge header
PS 18	Duplex	3	One for each pump discharge riser (2 total); one for common discharge header
PS 21	Triplex	3	One for each pump discharge riser (3 total)
PS 66	Duplex	2	One for each pump discharge riser (2 total)
PS 101	Duplex	2	One for each pump discharge riser (2 total)
PS 151	Duplex	3	One for each pump discharge riser (2 total); one for common discharge header

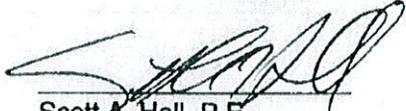
2. **Per this addendum, Standard Plan No. 804-01 (1 of 2) has been replaced with Standard Plan No. 804-01 (1 of 3). Standard Plan No. 804-01 (3 of 3) is not required for this project.**
3. SP 9-5.2, there are many items discussed, but where is this work shown or drawn on the bid documents? All of these items referenced should be shown on the bid documents.

Additional drawings addressing these items are included in this addendum. Removal of plugs and breaking out sewer lines from existing manholes shall be considered incidental to other items on the Bid Form. No separate payment shall be made for this work.

RECOMMENDED:



8/31/16


Scott A. Hall, P.E.



8/31/16

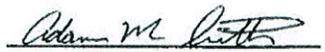

Jarrod C. Tramonte, P.E.



9-1-16

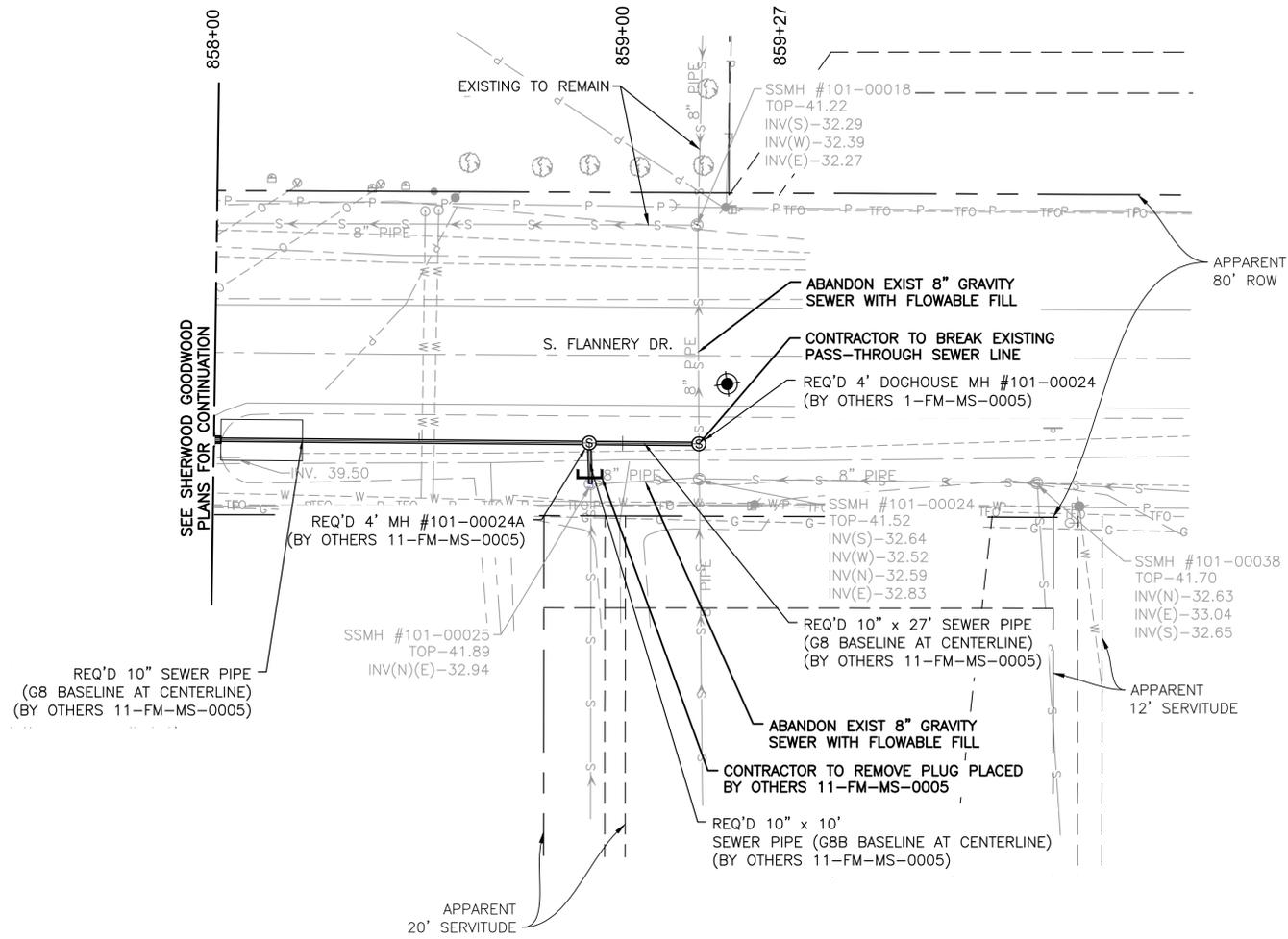

Justin L. Sharper, P.E.

APPROVED:

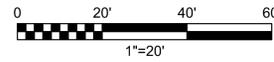

Adam M. Smith, P.E.



PRIOR TO WORK COMMENCEMENT, THE CONTRACTOR IS RESPONSIBLE FOR FINAL VERIFICATION OF THE LOCATION OF THE UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL (811 OR 800-272-3020) AND CITY PARISH DEPARTMENT OF PUBLIC WORKS TO HAVE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES FOR ALL AREAS OF CONSTRUCTION.

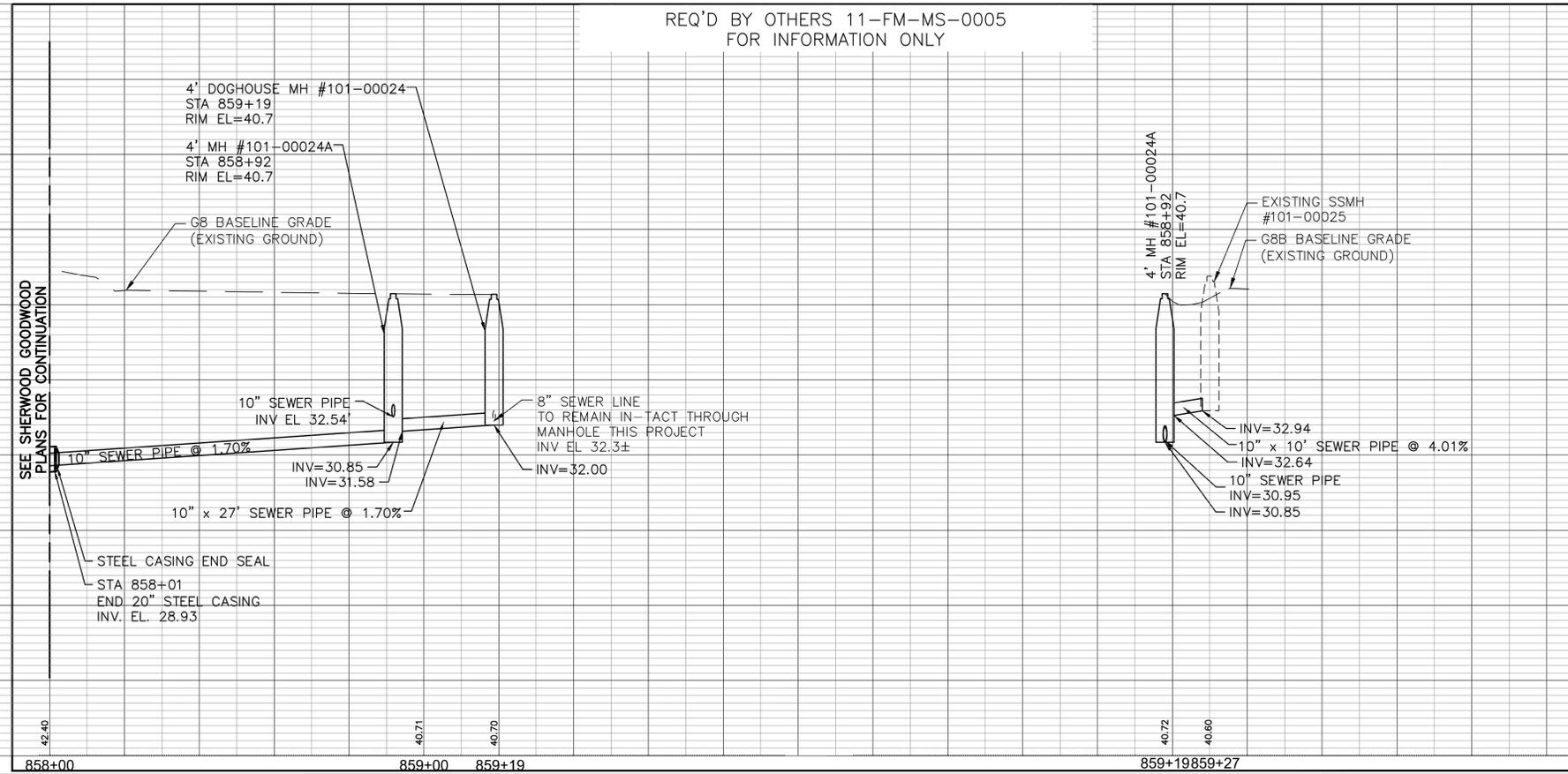


CAUTION! PROPOSED SEWER LINE NEAR OVERHEAD ELECTRIC.

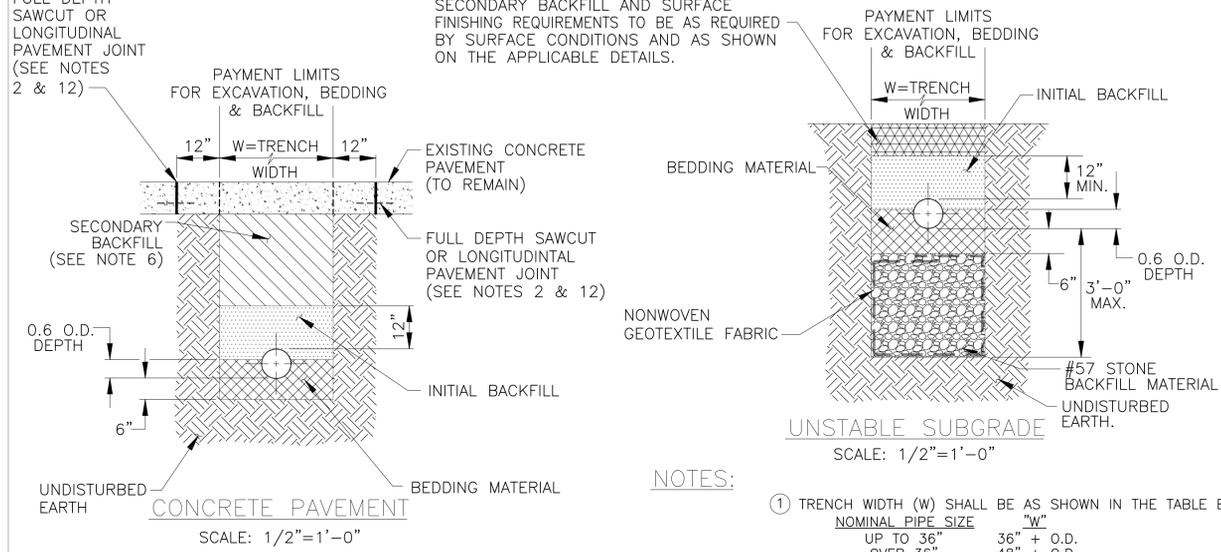
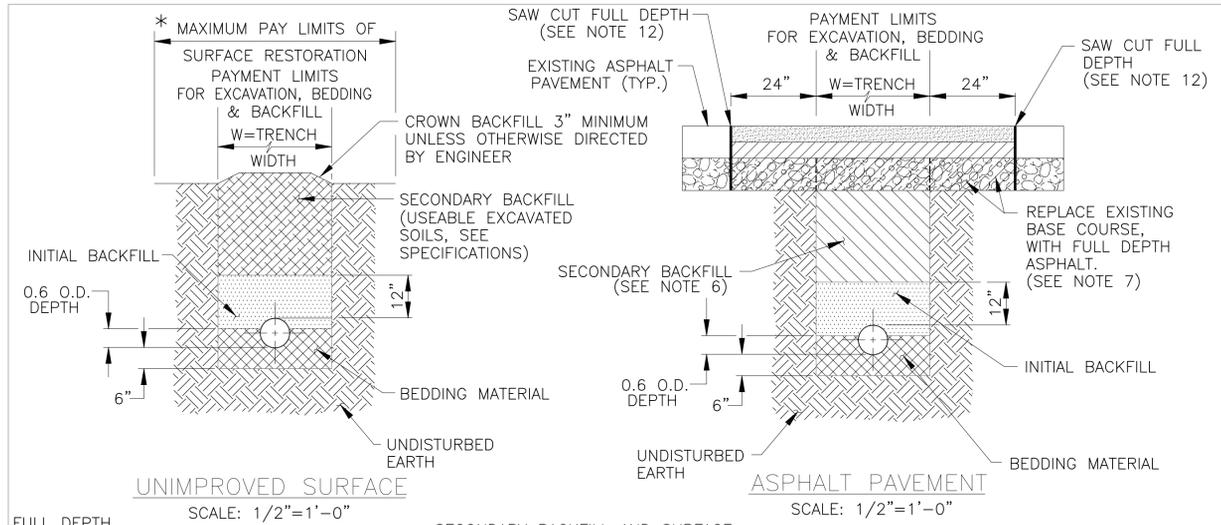


SCALE:
HORZ. 1"=20'
VERT. 1"=5'

Q:\2011\1159- SHERWOOD FOREST-GOODWOOD\CAD\PRODUCTION PLAN\1159C-CBPP13 (FLORIDA PS).DWG



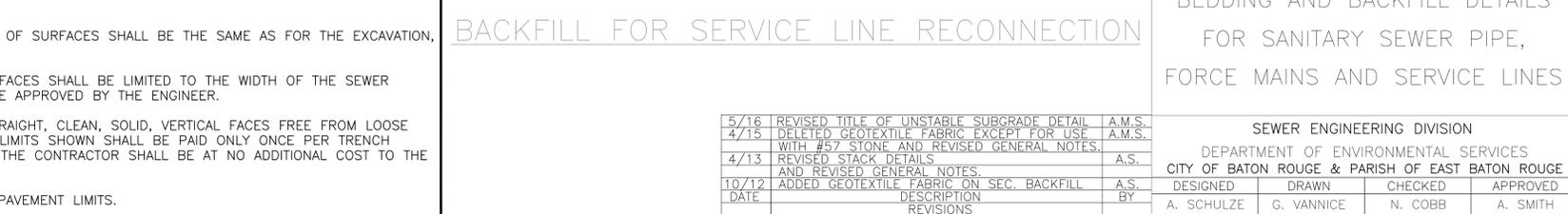
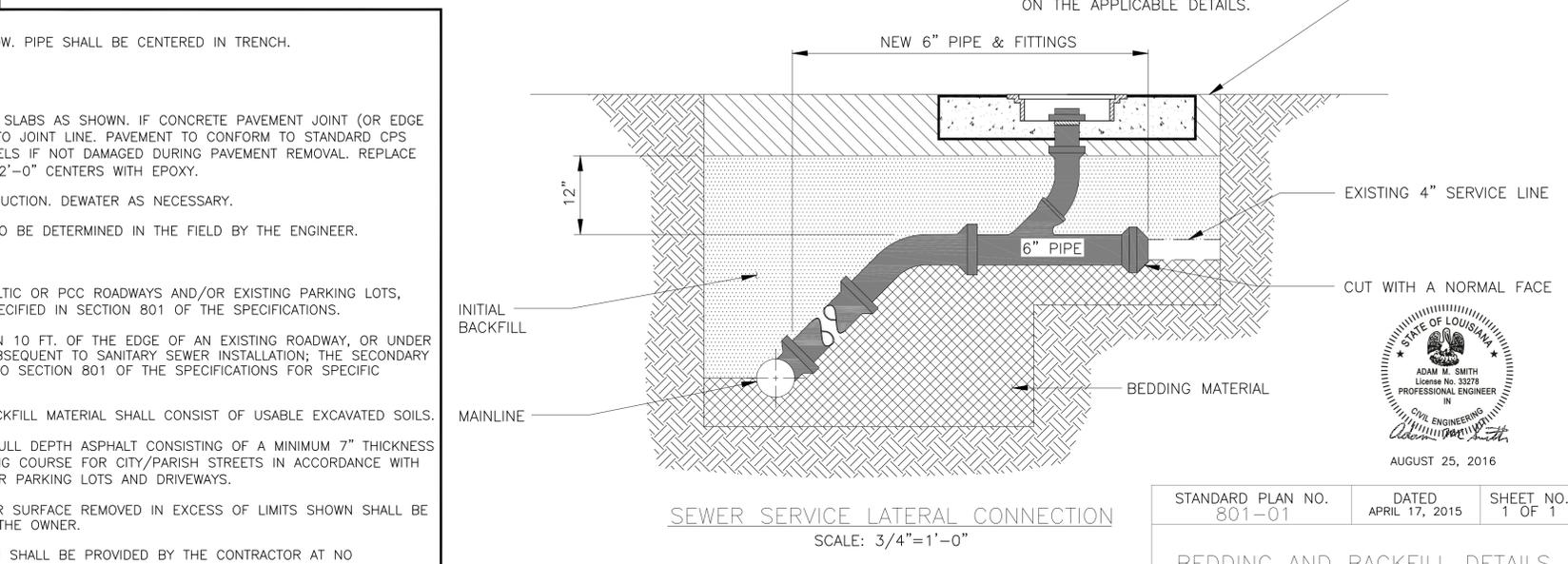
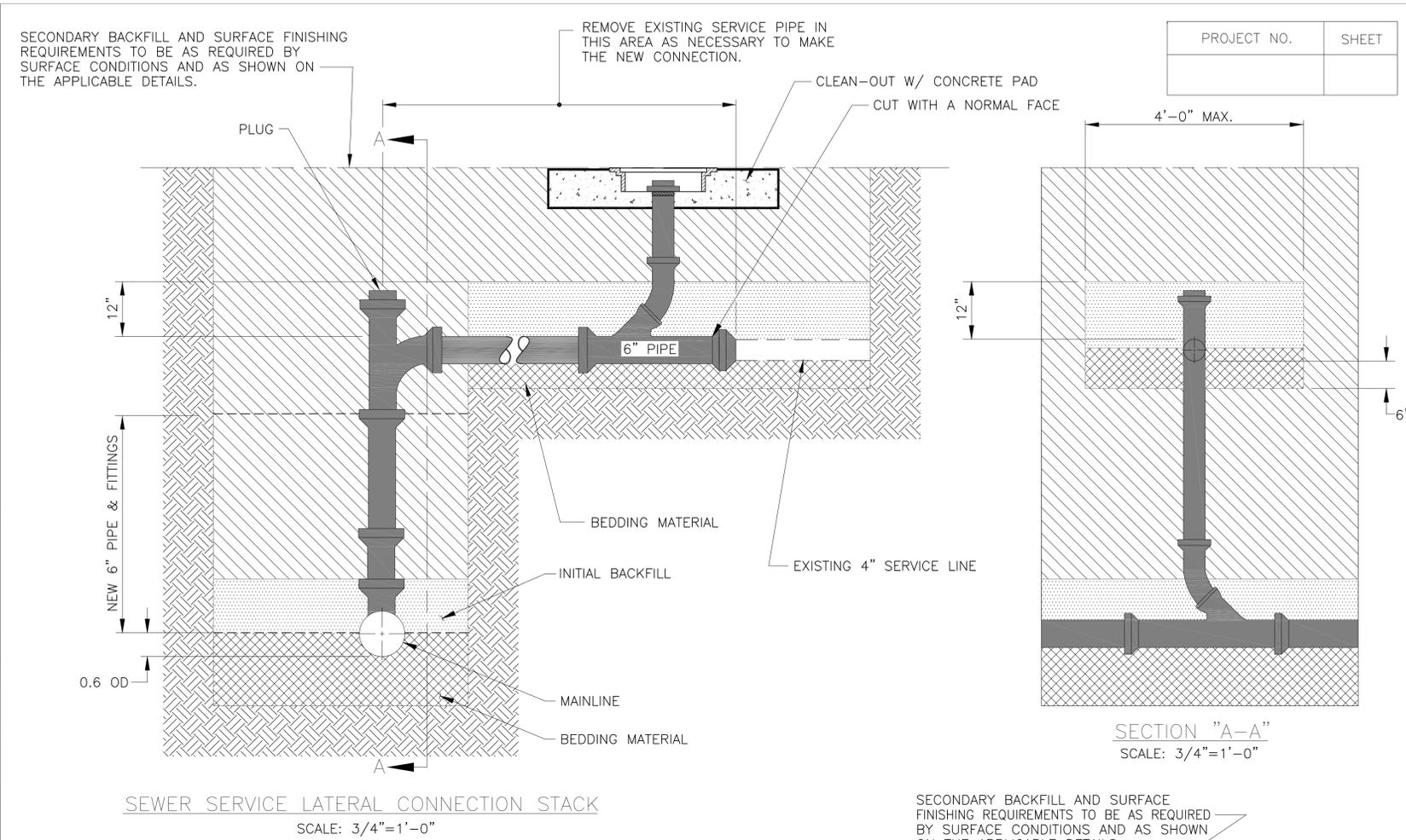
101-C-07	
EAST BATON ROUGE	BATON ROUGE
PARISH	CITY
DESIGNED KTB	DATE AUG 2016
CHECKED CAB	SHEET
DATE	BY
NO.	REVISION DESCRIPTION
FLORIDA BOULEVARD PUMP STATION IMPROVEMENTS	
GRAVITY SANITARY SEWER LINE G8	
PLAN & PROFILE	



NOTES:

- TRENCH WIDTH (W) SHALL BE AS SHOWN IN THE TABLE BELOW. PIPE SHALL BE CENTERED IN TRENCH.

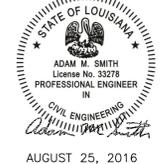
NOMINAL PIPE SIZE	"W"
UP TO 36"	36" + O.D.
OVER 36"	48" + O.D.
- CONTRACTOR TO REMOVE AND REPLACE CONCRETE PAVEMENT SLABS AS SHOWN. IF CONCRETE PAVEMENT JOINT (OR EDGE OF ROAD/BACK OF CURB) IS WITHIN 2', REMOVE PAVEMENT TO JOINT LINE. PAVEMENT TO CONFORM TO STANDARD CPS 502-01 (STANDARD PAVEMENT DETAILS). REUSE EXISTING DOWELS IF NOT DAMAGED DURING PAVEMENT REMOVAL. REPLACE ALL DAMAGED DOWEL WITH 1/2" x 2'-0" DEFORMED BARS ON 2'-0" CENTERS WITH EPOXY.
- WATER SHALL NOT BE PERMITTED IN TRENCH DURING CONSTRUCTION. DEWATER AS NECESSARY.
- USE OF THE UNSTABLE SUBGRADE PIPE BEDDING DETAIL IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- GEOTEXTILE FABRIC SHALL BE OVERLAPPED 8" MINIMUM.
- IF LIMITS OF THE PIPE TRENCH FALL UNDER EXISTING ASPHALTIC OR PCC ROADWAYS AND/OR EXISTING PARKING LOTS, THE SECONDARY BACKFILL SHALL BE #610 STONE OR AS SPECIFIED IN SECTION 801 OF THE SPECIFICATIONS.
 IF LIMITS OF THE PIPE TRENCH FALL OUTSIDE OF, BUT WITHIN 10 FT. OF THE EDGE OF AN EXISTING ROADWAY, OR UNDER THE LIMITS OF A FUTURE ROADWAY TO BE CONSTRUCTED SUBSEQUENT TO SANITARY SEWER INSTALLATION; THE SECONDARY BACKFILL SHALL BE THE SAND-AGGREGATE MIXTURE. REFER TO SECTION 801 OF THE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
 IN AREAS OUTSIDE THOSE DESCRIBED ABOVE, SECONDARY BACKFILL MATERIAL SHALL CONSIST OF USABLE EXCAVATED SOILS.
- ASPHALTIC CONCRETE PAVEMENT SHALL BE REPLACED WITH FULL DEPTH ASPHALT CONSISTING OF A MINIMUM 7" THICKNESS OF MIX TYPE B BASE COURSE AND 2" THICKNESS OF WEARING COURSE FOR CITY/PARISH STREETS IN ACCORDANCE WITH THE SPECIFICATIONS. MINIMUM 4" MIX TYPE B (PG64-22) FOR PARKING LOTS AND DRIVEWAYS.
- ASPHALT OR CONCRETE PAVEMENT OR UNIMPROVED GRANULAR SURFACE REMOVED IN EXCESS OF LIMITS SHOWN SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- BEDDING AND BACKFILL NEEDED IN EXCESS OF LIMITS SHOWN SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- MAXIMUM PAYMENT LENGTHS FOR REMOVAL AND RESTORATION OF SURFACES SHALL BE THE SAME AS FOR THE EXCAVATION, BEDDING AND BACKFILL.
- *PAY LIMITS OF SURFACE RESTORATION ON UNIMPROVED SURFACES SHALL BE LIMITED TO THE WIDTH OF THE SEWER SERVITUDE OR AS SPECIFIED ON THE DRAWINGS AND MUST BE APPROVED BY THE ENGINEER.
- FINAL EDGES ALONG PAVEMENT REMOVAL LIMITS SHALL BE STRAIGHT, CLEAN, SOLID, VERTICAL FACES FREE FROM LOOSE MATERIAL PRIOR TO PAVEMENT RESTORATION. SAWCUTTING AT LIMITS SHOWN SHALL BE PAID ONLY ONCE PER TRENCH PATCH. ANY ADDITIONAL SAWCUTS FOR THE CONVENIENCE OF THE CONTRACTOR SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- IMPROVED GRANULAR SURFACE LIMITS SIMILAR TO CONCRETE PAVEMENT LIMITS.



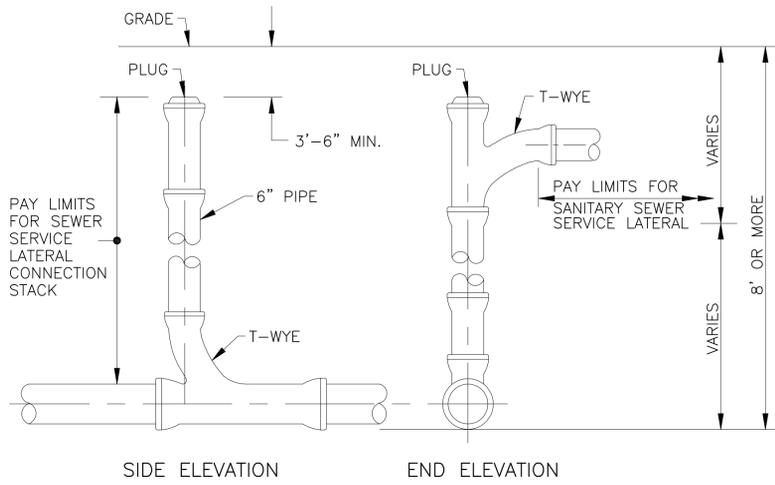
TYPICAL TRENCH EXCAVATION & FINAL PAVEMENT REPLACEMENT DETAILS

5/16	REVISED TITLE OF UNSTABLE SUBGRADE DETAIL	A.M.S.
4/15	DELETED GEOTEXTILE FABRIC EXCEPT FOR USE WITH #57 STONE AND REVISED GENERAL NOTES.	A.M.S.
4/13	REVISED STACK DETAILS AND REVISED GENERAL NOTES.	A.S.
10/12	ADDED GEOTEXTILE FABRIC ON SEC. BACKFILL	A.S.
DATE	DESCRIPTION	BY
	REVISIONS	

STANDARD PLAN NO. 801-01	DATED APRIL 17, 2015	SHEET NO. 1 OF 1
BEDDING AND BACKFILL DETAILS FOR SANITARY SEWER PIPE, FORCE MAINS AND SERVICE LINES		
SEWER ENGINEERING DIVISION DEPARTMENT OF ENVIRONMENTAL SERVICES CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE		
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED N. COBB
		APPROVED A. SMITH

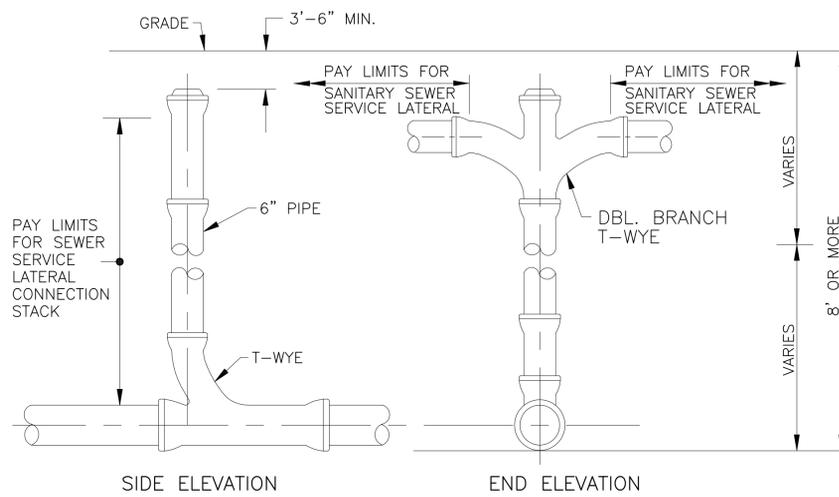


PROJECT NO.	SHEET



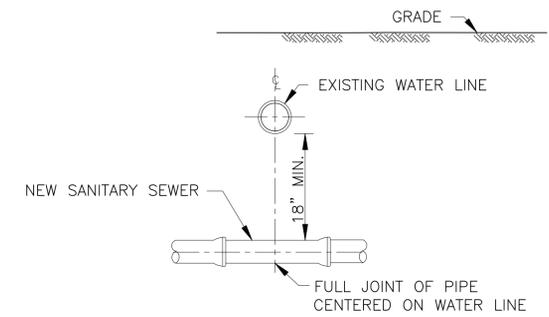
SIDE ELEVATION END ELEVATION

SEWER SERVICE LATERAL SINGLE CONNECTION STACK
SCALE: 3/4"=1'-0"



SIDE ELEVATION END ELEVATION

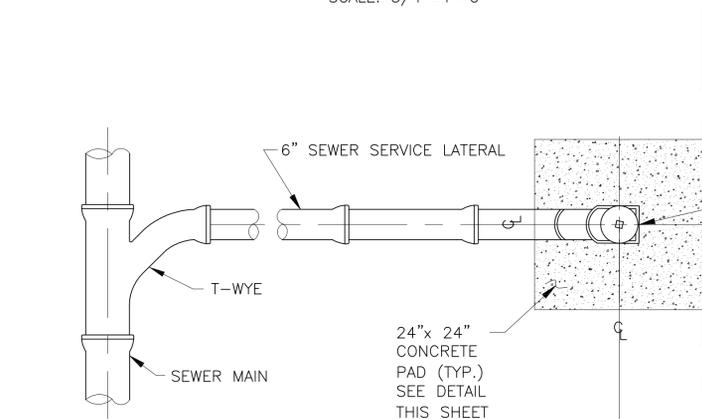
SEWER SERVICE LATERAL DOUBLE CONNECTION STACK
SCALE: 3/4"=1'-0"



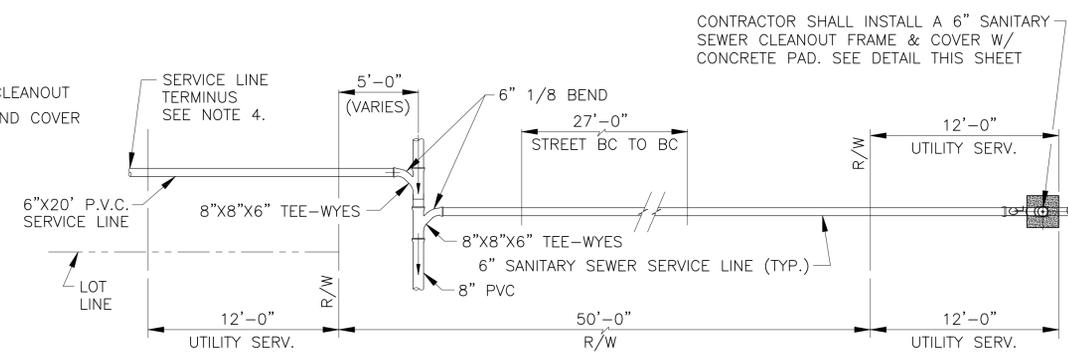
NEW SANITARY SEWER CROSSING EXISTING WATER LINE
SCALE: 3/4"=1'-0"



NEW SANITARY SEWER PARALLEL EXISTING WATER LINE
SCALE: 1/2"=1'-0"

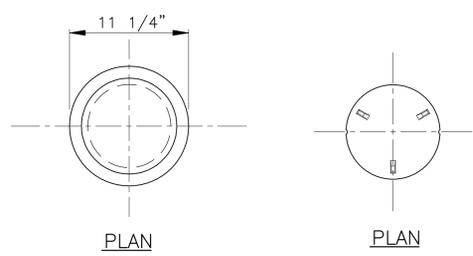


SERVICE CONNECTION AND CLEANOUT
PLAN SCALE: 1"=1'-0"

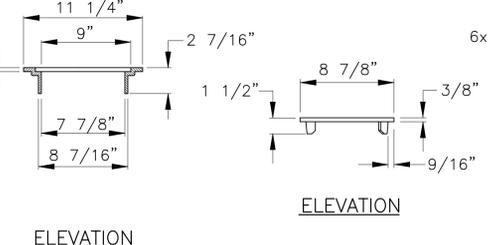


TYPICAL LOT SERVICE DETAIL
SCALE: 3/16"=1'-0"

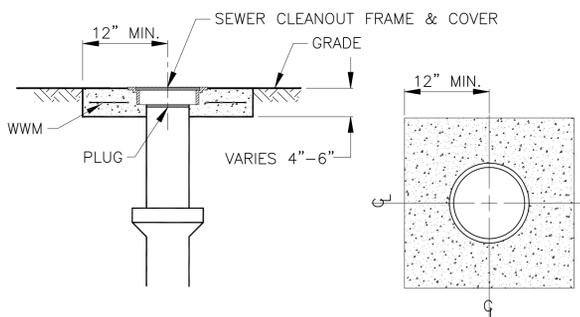
- NOTES:
- DEPARTMENT OF HEALTH AND HOSPITALS MUST APPROVE INSTALLATION METHOD IF VERTICAL AND HORIZONTAL SEPARATIONS BETWEEN SEWER AND WATER LINES CANNOT BE MET.
 - SEPARATION REQUIREMENTS SHOWN HERE DO NOT APPLY TO SERVICE CONNECTIONS - REFER TO PLUMBING CODE FOR APPLICABLE REQUIREMENTS.
 - SEWER CLEANOUT FRAME AND COVER SHALL MEET THE LATEST EDITION OF AASHTO M306.
 - IN NEW SUBDIVISIONS OR IN NEW SEWER SERVICE AREAS WHERE NEW SERVICE LATERAL CONNECTIONS ARE REQUIRED, THE SEWER SERVICE LATERAL TERMINATION SHALL BE STUBBED ABOVE GROUND AT THE BACK EDGE OF ALL SERVITUDES. PRIOR TO FINAL PLUMBING INSPECTION AND ACCEPTANCE, THE PLUMBING CONTRACTOR FOR EACH LOT SHALL INSTALL THE CLEANOUT AS SHOWN.
 - DOUBLE WYES ARE ONLY ALLOWED ON LOTS 50' WIDE OR LESS AND SHALL ONLY BE ON THOSE SERVICES CROSSING THE STREET. SERVICES NOT CROSSING THE STREET AND ON LOTS GREATER THAN 50' WIDE SHALL HAVE SINGLE WYES TO THE CENTER OF THE LOTS AS SHOWN.



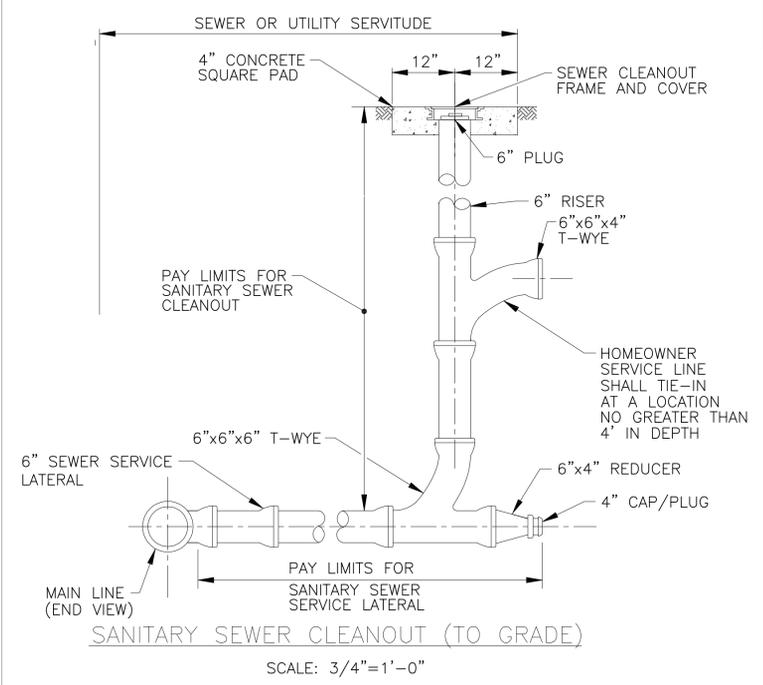
PLAN PLAN



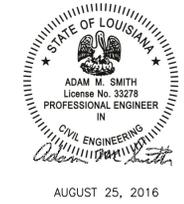
ELEVATION
SEWER CLEANOUT FRAME AND COVER
EJIW V-8503 OR APPROVED EQUAL
SCALE: 1 1/2"=1'-0"



24"X24" CONCRETE PAD
(PRECAST CONCRETE PAD ACCEPTABLE)
SCALE: 1"=1'-0"



SANITARY SEWER CLEANOUT (TO GRADE)
SCALE: 3/4"=1'-0"



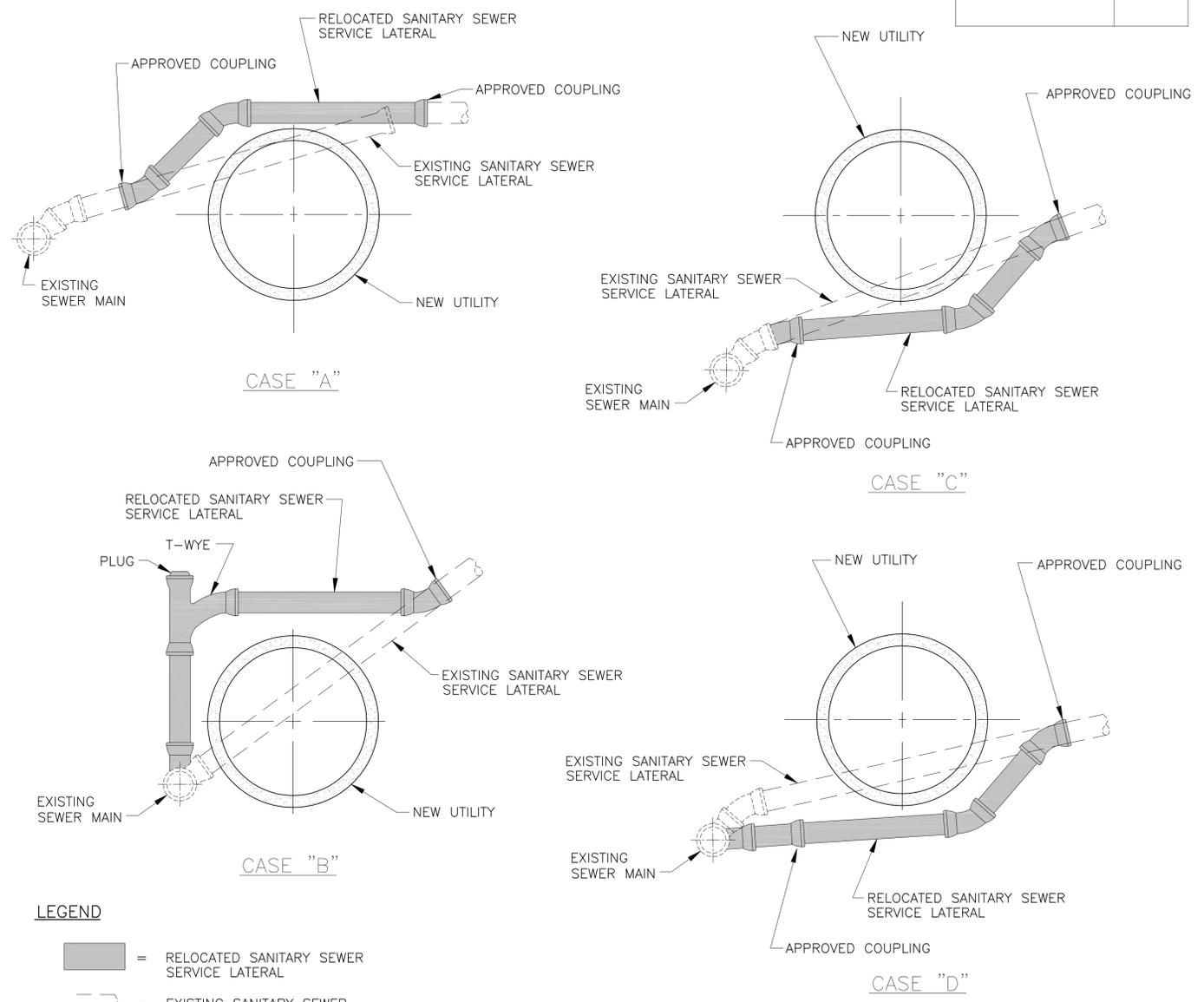
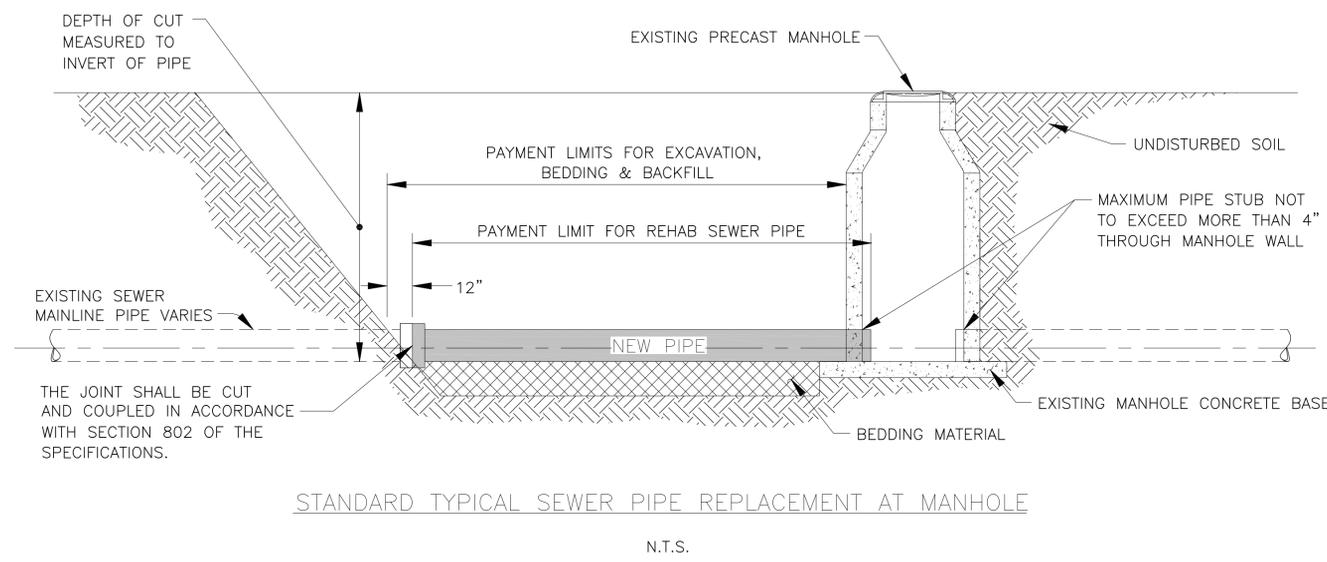
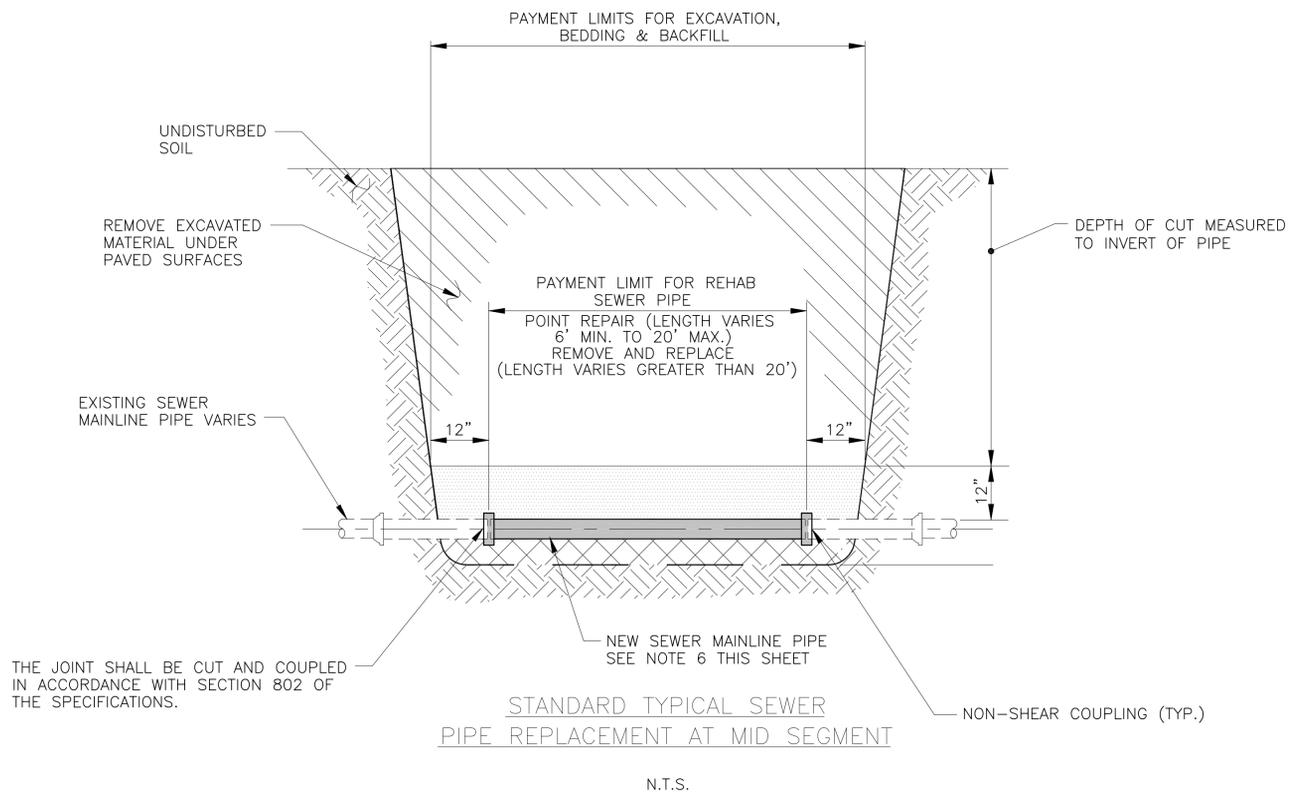
STANDARD PLAN NO. 802-01	DATED AUGUST 1, 2011	SHEET NO. 1 OF 2
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SANITARY SEWER PIPE AND CLEANOUT DETAILS

SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED N. COBB	APPROVED A. SMITH

5/16	REVISED LATERAL STACK DIMENSION & ADDED PAY LIMITS	A.M.S.
DATE	DESCRIPTION	BY
	REVISIONS	

PROJECT NO.	SHEET



LEGEND

- = RELOCATED SANITARY SEWER SERVICE LATERAL
- = EXISTING SANITARY SEWER SERVICE LATERAL

NOTES:

1. THE RELOCATED SANITARY SEWER SERVICE LATERAL SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) PIPE EXCEPT WHERE THE SANITARY SEWER SERVICE LATERAL IS BELOW THE UTILITY OR HAS LESS THAN 3 FEET OF COVER TO FINISH GRADE. IN THESE CASES THE PIPE MATERIAL SHALL BE DUCTILE IRON.
2. THE RELOCATED SANITARY SEWER SERVICE LATERAL SHALL BE CONNECTED TO THE EXISTING PIPE WITH APPROVED NON-SHEAR COUPLINGS.
3. USE OF CASE "D" TYPE REROUTING DEPENDS ON THE LEVEL OF FLOW (PRESENT AND FUTURE) WITHIN MAINLINE SEWER - SUBJECT TO CASE APPROVAL BY ENGINEER.
4. MINIMUM SLOPE ON ANY REROUTED SEGMENT OF SANITARY SEWER SERVICE LATERAL TO BE 1.00%.
5. NEW SEWER PIPE LENGTH & TYPE TO BE DEFINED BY ENGINEER.
6. BEDDING, SECONDARY BACKFILL, INITIAL BACKFILL, AND SURFACE RESTORATION SHALL BE IN ACCORDANCE WITH SECTION 801 OF THE SPECIFICATION AND STANDARD PLAN 801-01.



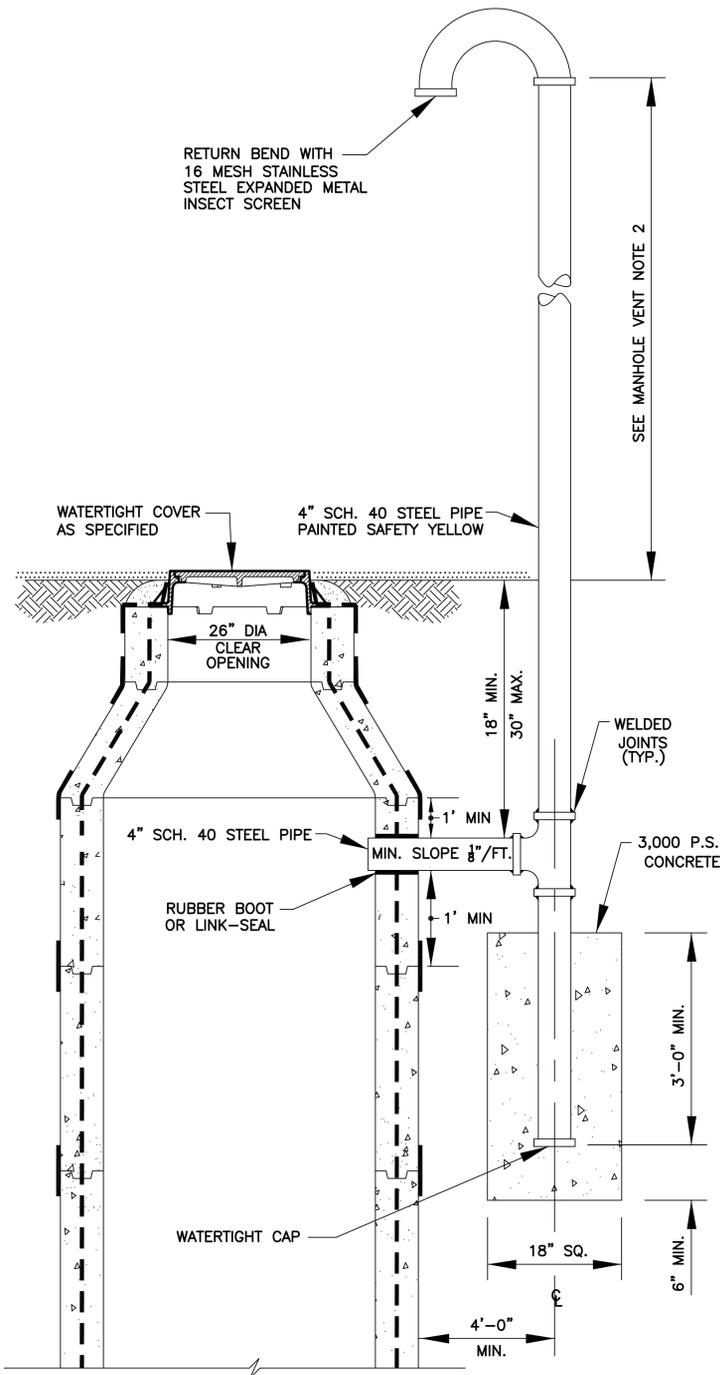
AUGUST 25, 2016

STANDARD PLAN NO. 802-01	DATED AUGUST 1, 2011	SHEET NO. 2 OF 2
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SANITARY SEWER PIPE AND CLEANOUT DETAILS

SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED	DRAWN	CHECKED	APPROVED
A. SCHULZE	G. VANNICE	N. COBB	A. SMITH

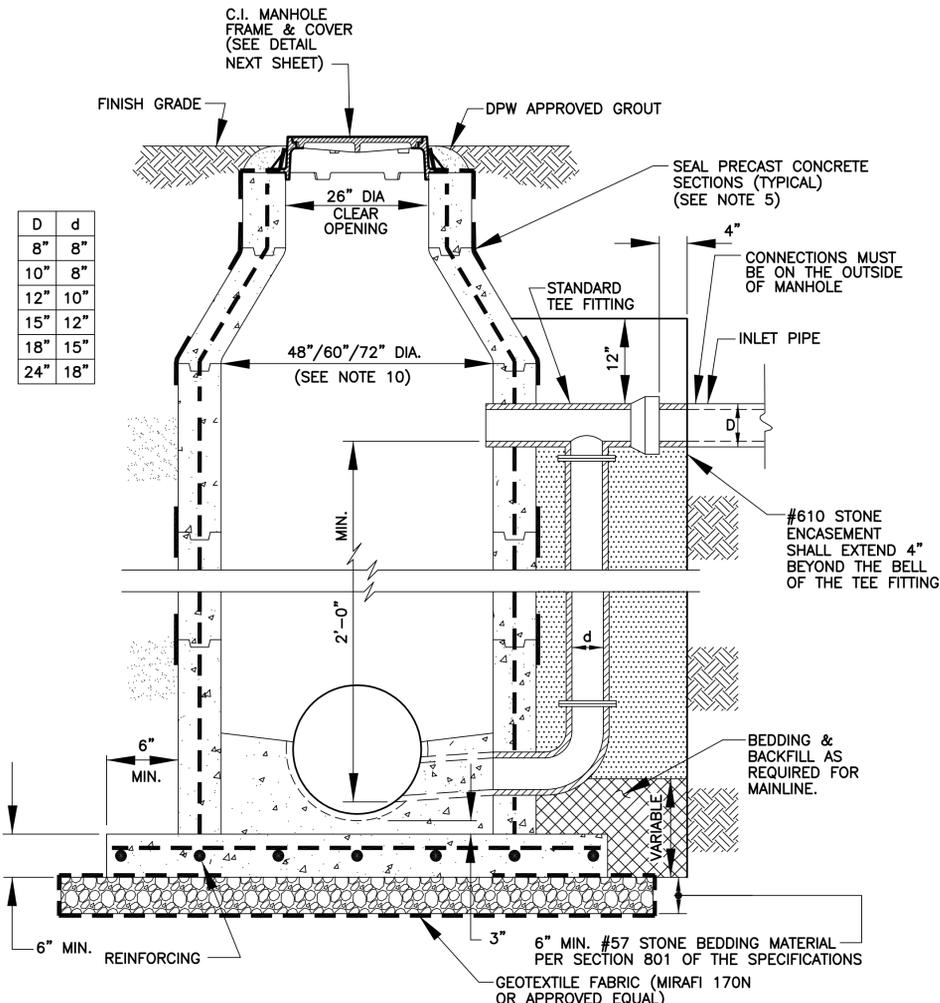
7/16	REVISED NOTE 2 & DIMENSION	AMS
4/13	REVISED PIPE REPLACEMENT DETAIL & PIPE REPLACEMENT AT MANHOLE DETAIL ADDED	A.S.
	GENERAL NOTES 5 & 6	
DATE	DESCRIPTION	BY
	REVISIONS	



MANHOLE VENT
NOT TO SCALE

MANHOLE VENT NOTES:

- PIPE TO BE PAINTED IN ACCORDANCE W/SECTION 822.
- TOP OF VENT TO BE MIN. OF 1' ABOVE BASE FLOOD ELEVATION OR HIGHER AS SHOWN ON PLANS.
- MANHOLE VENT TO BE UTILIZED ONLY WHEN STIPULATED ON PLANS.

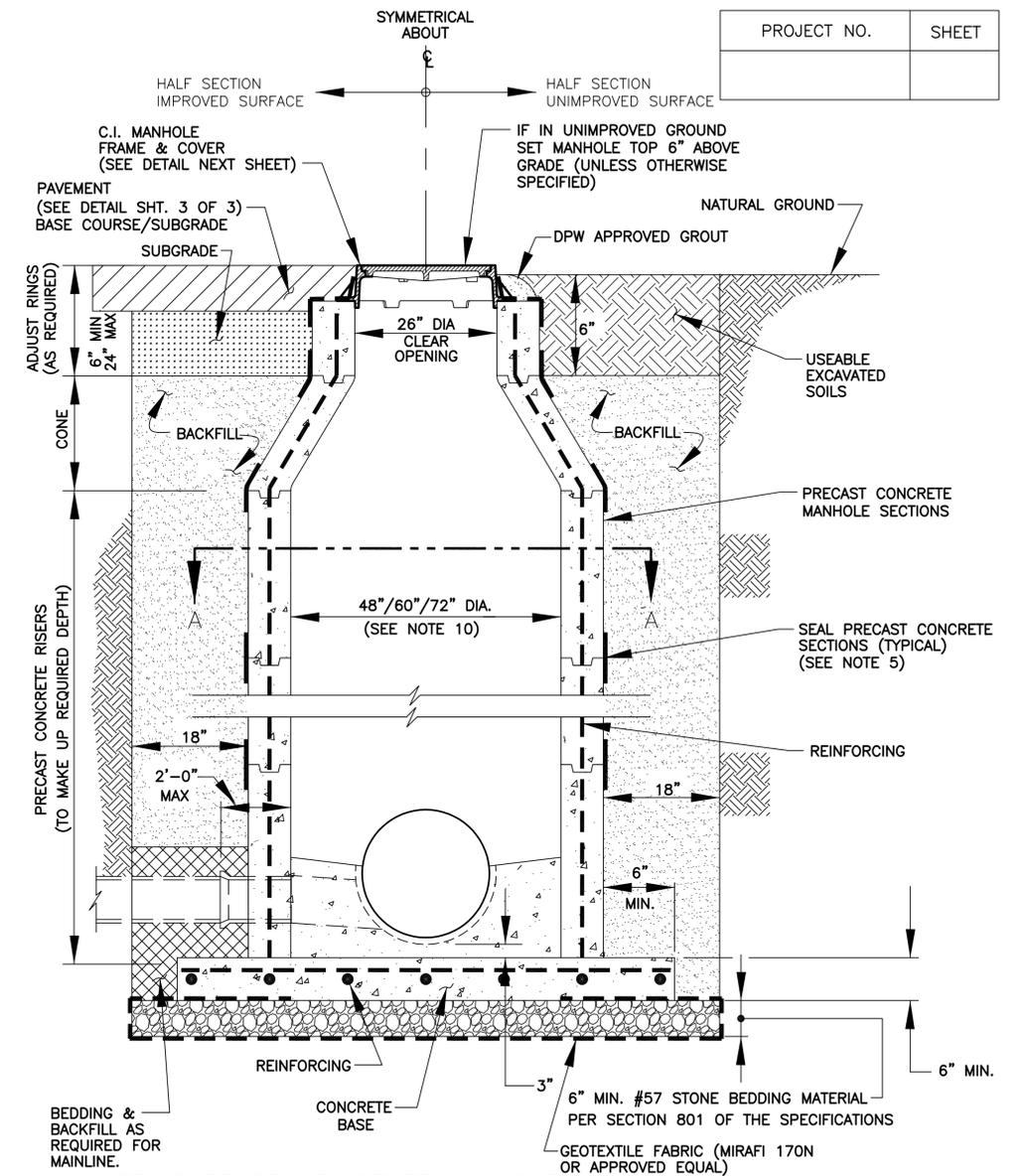


STANDARD GRAVITY SEWER DROP MANHOLE

GENERAL NOTES:

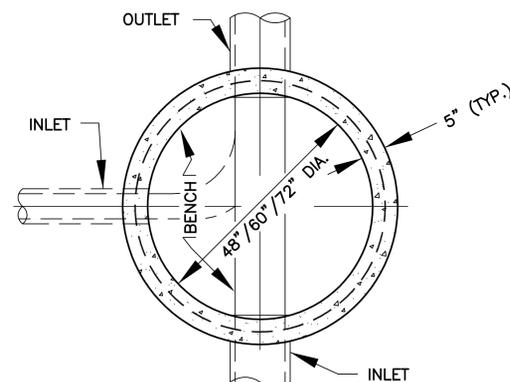
N.T.S.

- ALL STUBS FROM MANHOLES AND ENDS OF PIPE TO WHICH CONNECTIONS ARE TO BE MADE UNDER THIS CONTRACT SHALL BE PROVIDED WITH TEMPORARY WATER TIGHT PLUGS OR CAPS. ALL STUBS FOR CONNECTIONS TO OTHER CONTRACTS SHALL BE PROVIDED WITH WATER TIGHT PLUGS PLACED FROM INSIDE OF MANHOLE. SEWERS WHICH ARE TO BE CONNECTED TO MANHOLES WHICH WILL BE BUILT UNDER OTHER CONTRACTS SHALL BE PROVIDED WITH WATER TIGHT PLUGS AND CAPS. STUBS SHALL BE A MAXIMUM OF 2FT. IN LENGTH. SUCH PLUGS LOCATED AT JUNCTIONS OF TWO CONTRACTS SHALL REMAIN IN PLACE AND SHALL BE REMOVED BY OTHERS.
- THE BENCH SHALL SLOPE TOWARD THE INVERT CHANNEL AT THE RATE OF (1.5"/FT.), BUT MINIMUM OF 3" DIFFERENCE SHALL BE MAINTAINED FROM THE TOP OF CHANNEL TO THE WALL.
- ALL CAST IRON FRAME AND COVERS SHALL BE TRAFFIC BEARING. FRAME AND COVERS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE LATEST AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS DESIGNATION: M306 STANDARD SPECIFICATION FOR DRAINAGE, SEWER, UTILITY, AND RELATED CASTINGS. THEY SHALL HAVE AN ENVIRONMENTALLY SAFE, WATER-BASE ASPHALTIC COATING WHICH IS NONTOXIC, NONFLAMMABLE, COLORLESS, AND DRIES TO A HARD BLACK FINISH.
- THE DEPTH OF THE INVERT CHANNEL SHALL BE EQUAL TO HALF THE DIAMETER OF THE LARGEST DIAMETER SEWER PIPE IN THE MANHOLE.
- MANHOLE SECTIONS SHALL BE JOINED TOGETHER WITH FLEXIBLE GASKETS AND EXTERNALLY SEALED AT THE JOINTS IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL MANHOLES ARE TO BE CONSTRUCTED OF PRECAST CONCRETE (BASE, RISERS AND CONE). NO BRICK MANHOLES WILL BE ACCEPTED UNLESS APPROVED IN WRITING.
- MANHOLE BEDDING AND BACKFILL SHALL BE ACCORDANCE WITH THE SPECIFICATIONS. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS AND PLACEMENT AND COMPACTION OF PIPE BEDDING MATERIALS.
- PIPE PENETRATIONS SHALL CONFORM TO THE SPECIFICATIONS.
- REINFORCING FOR PRE-CAST MANHOLES AS PER ASTM C-478.
- FOR SEWERS 16" DIA. OR LESS CONSTRUCT 48" DIA. MANHOLE, FOR SEWERS LARGER THAN 16" UP TO 24" DIA. CONSTRUCT 60" DIA. MANHOLE, AND FOR SEWERS LARGER THAN 24" DIA. CONSTRUCT 72" DIA. MANHOLE. MANHOLE DIA. SIZING, HOWEVER IS CONTINGENT UPON THE LIMITATIONS OF THE MANUFACTURER DUE TO PIPE SIZE AND ORIENTATION AT THE MANHOLE. THE DESIGN ENGINEER MUST VERIFY THAT THE PROPER MANHOLE DIA. IS PROVIDED.
- MANHOLE SHALL NOT INCLUDE STEPS.



STANDARD GRAVITY SEWER MANHOLE

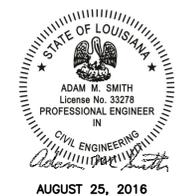
N.T.S.



SECTIONAL A-A

N.T.S.

DATE	DESCRIPTION	BY
5/16	REVISED NOTE 5	A.S.
4-13	REVISED GENERAL NOTES, ADDED DIMENSIONS	A.S.

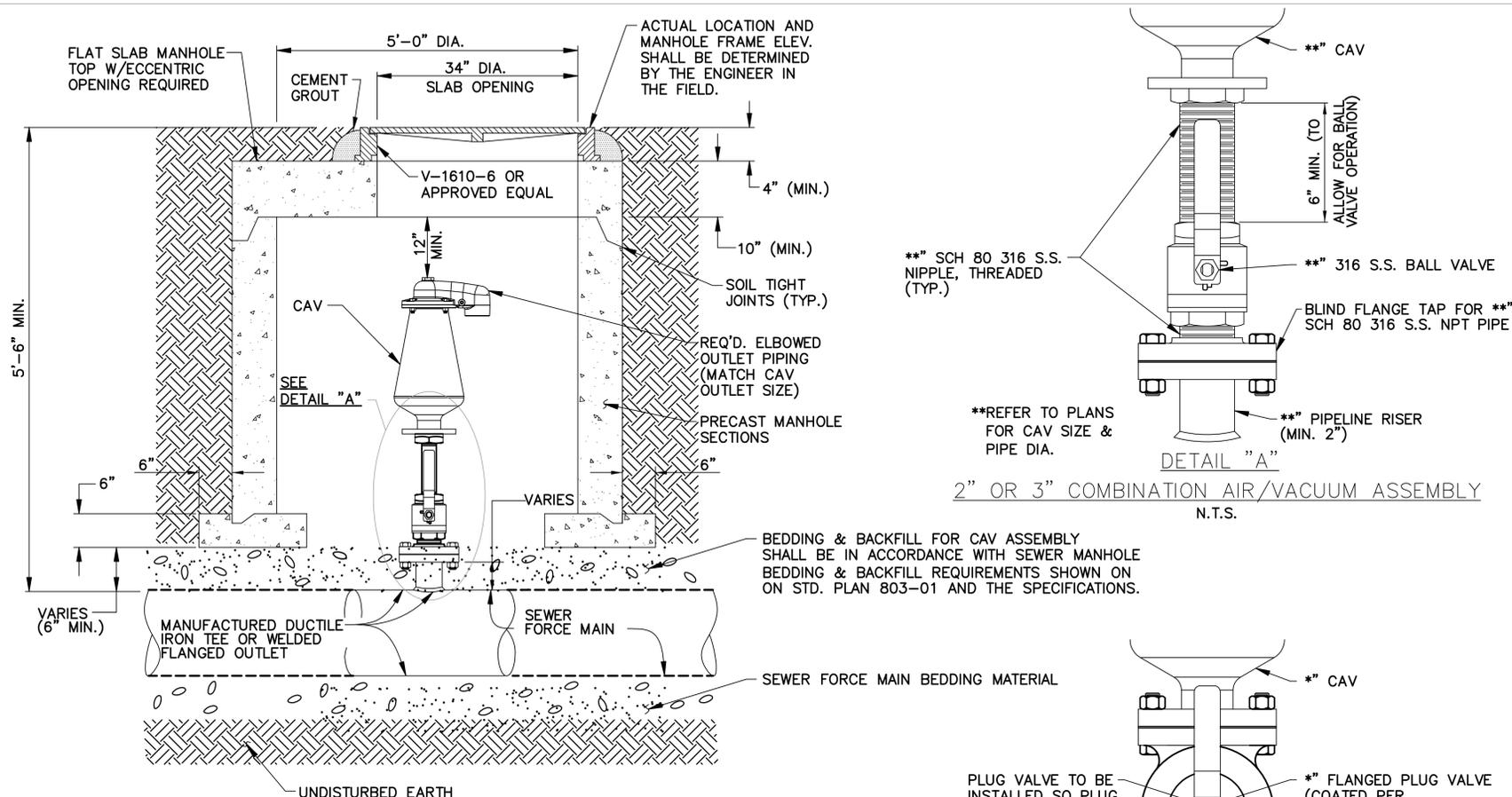


STANDARD PLAN NO.	DATED	SHEET NO.
803-01	AUGUST 1, 2011	1 OF 3

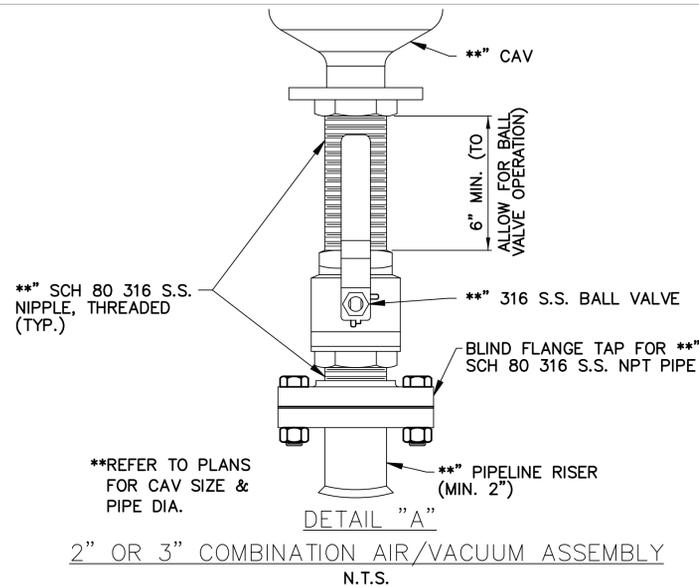
SANITARY SEWER MANHOLES

SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED	DRAWN	CHECKED	APPROVED
A. SCHULZE	G. VANNICE	N. COBB	A. SMITH

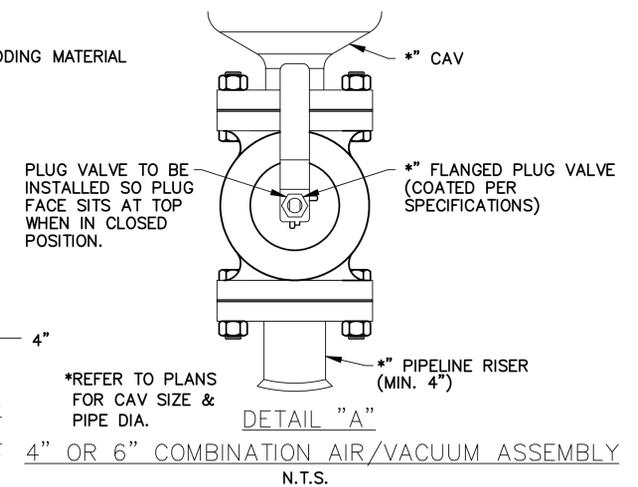
PROJECT NO.	SHEET



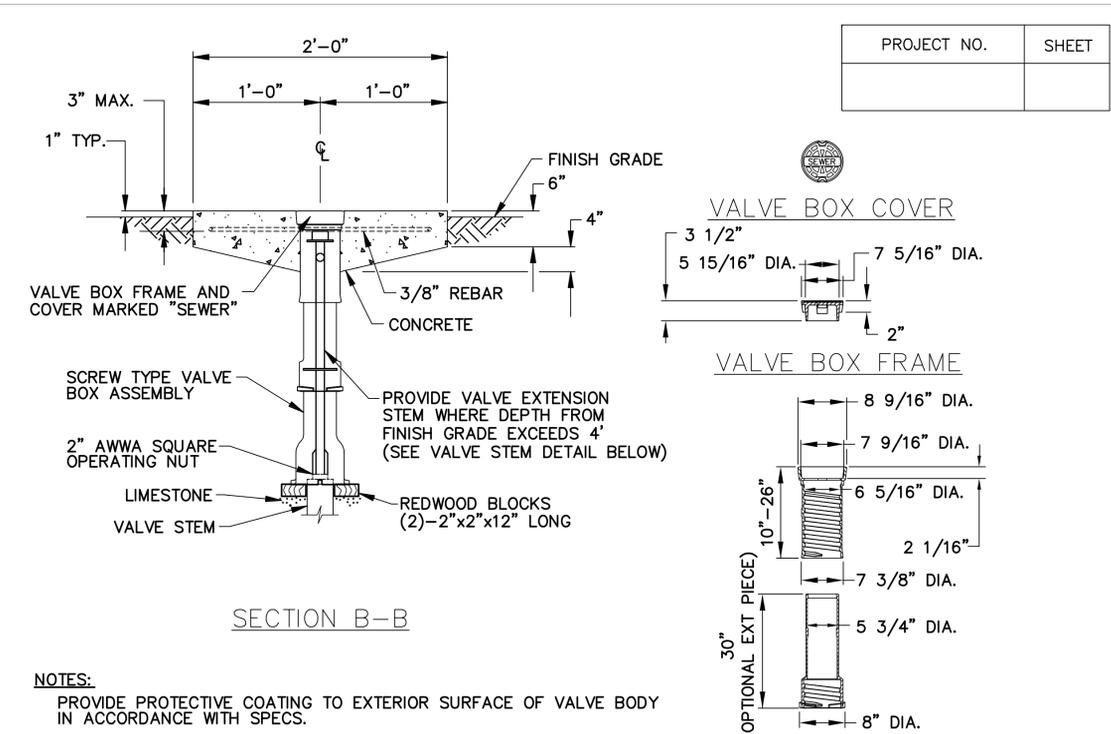
FORCE MAIN COMBINATION AIR RELEASE/VACUUM VALVE ASSEMBLY
N.T.S.



2" OR 3" COMBINATION AIR/VACUUM ASSEMBLY
N.T.S.

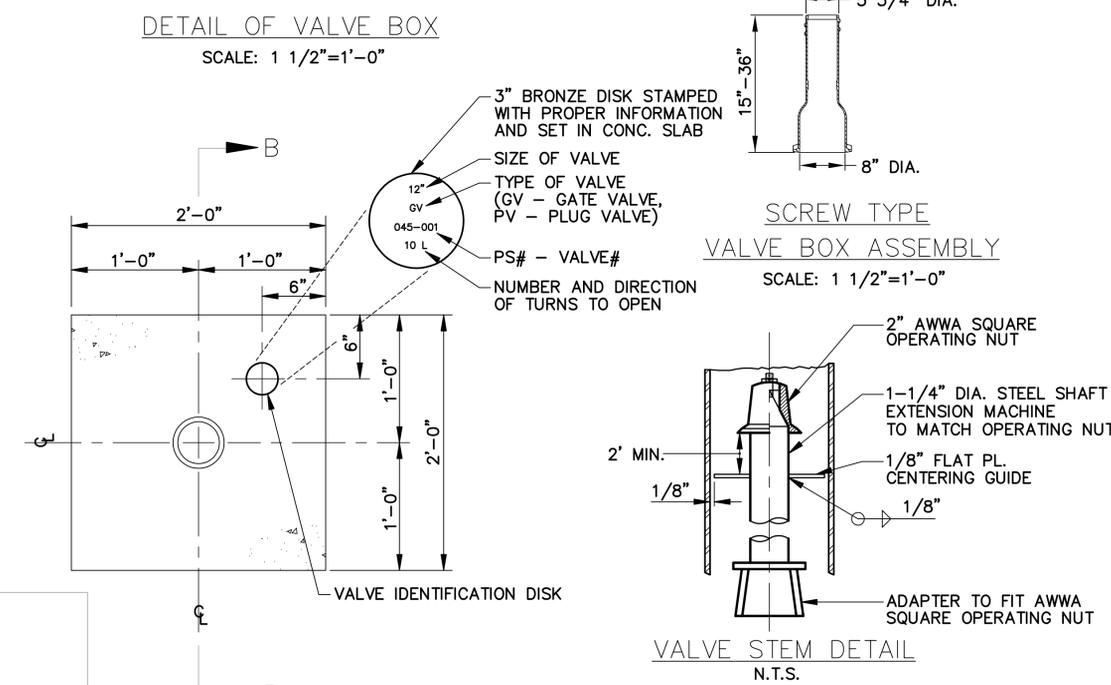


4" OR 6" COMBINATION AIR/VACUUM ASSEMBLY
N.T.S.

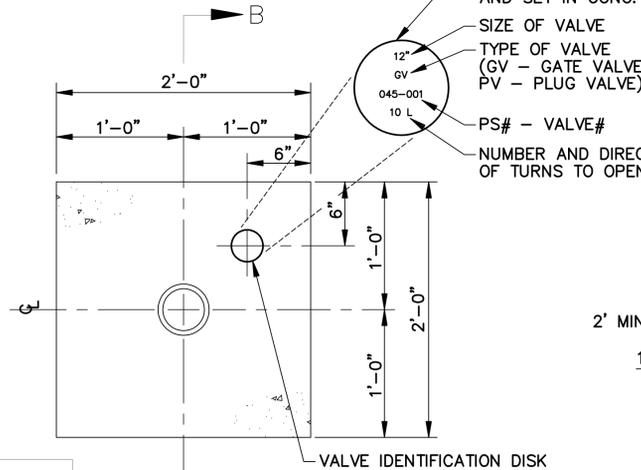


SECTION B-B

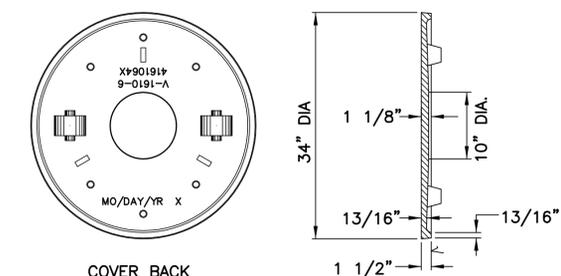
NOTES:
PROVIDE PROTECTIVE COATING TO EXTERIOR SURFACE OF VALVE BODY IN ACCORDANCE WITH SPECS.



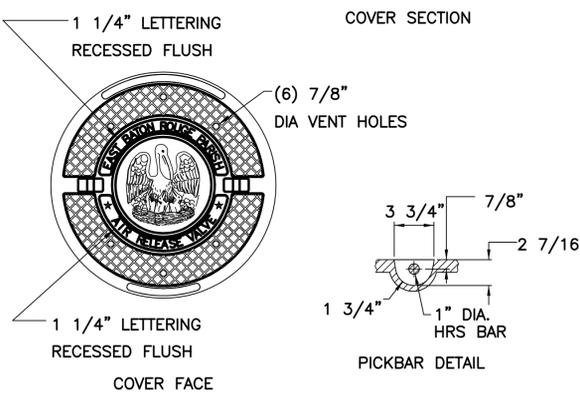
DETAIL OF VALVE BOX
SCALE: 1 1/2"=1'-0"



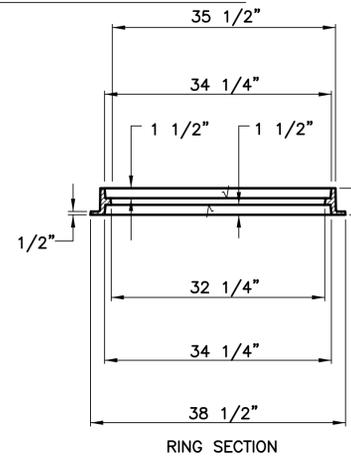
PLAN
SCALE: 1 1/2"=1'-0"



COVER BACK
COVER SECTION



COVER FACE
PICKBAR DETAIL



RING SECTION
RING BOTTOM FLANGE

NOTE:
ALL CAST IRON FRAME AND COVERS SHALL BE TRAFFIC BEARING FRAME AND COVERS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS DESIGNATION : M306-05 STANDARD SPECIFICATION FOR DRAINAGE, SEWER, UTILITY, AND RELATED CASTINGS. THEY SHALL HAVE AN ENVIRONMENTALLY SAFE, WATER-BASE ASPHALTIC COATING WHICH IS NONTOXIC, NONFLAMMABLE, COLORLESS, AND DRIES TO A HARD BLACK FINISH.

AIR RELEASE / VACUUM VALVE MANHOLE FRAME
REVERSIBLE RING TYPE

AIR RELEASE / VACUUM VALVE MANHOLE COVER
W/ VENT HOLES & LOGO



STANDARD PLAN NO. 804-01	DATED AUGUST 1, 2011	SHEET NO. 1 OF 3
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FORCE MAIN DETAILS

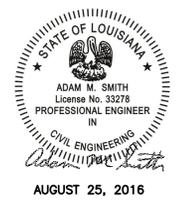
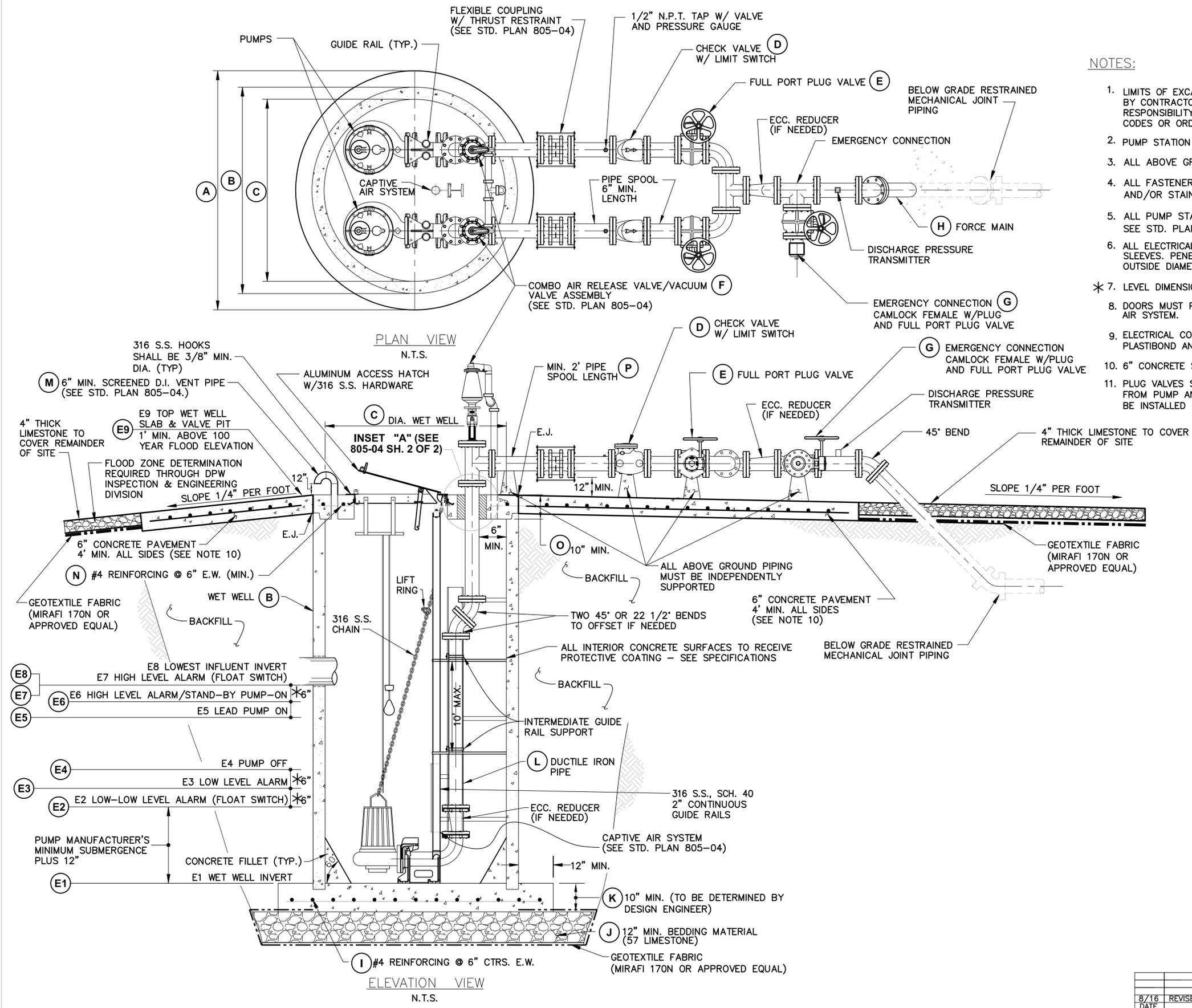
SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED N. COBB	APPROVED A. SMITH

DATE	DESCRIPTION	BY
	REVISIONS	

PROJECT NO.	SHEET

NOTES:

- LIMITS OF EXCAVATION TO BE DETERMINED BY THE CONSTRUCTION EXCAVATION METHOD SELECTED BY CONTRACTOR. MAINTAINING THE STABILITY OF THE SLOPED SIDES OF EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH OSHA REGULATIONS AND ANY LOCAL CODES OR ORDINANCES.
- PUMP STATION BEDDING & BACKFILL SHALL CONFORM TO SECTION 805 OF THE SPECIFICATIONS.
- ALL ABOVE GROUND PIPING MUST BE INDEPENDENTLY SUPPORTED.
- ALL FASTENERS IN WETWELL TO BE 316 STAINLESS STEEL. ALL PARTS IN WETWELL TO BE COATED AND/OR STAINLESS STEEL AS STATED IN THE SPECIFICATIONS.
- ALL PUMP STATIONS SHALL HAVE A BACKFLOW PREVENTER AND HOSE BIBB CONNECTION INSTALLED. SEE STD. PLAN 805-04.
- ALL ELECTRICAL CONDUIT PENETRATING CONCRETE WALLS SHALL BE SINGLE PENETRATION AND IN SEPARATE SLEEVES. PENETRATIONS SHALL BE A MINIMUM OF 2" APART MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
- LEVEL DIMENSIONS ARE A MINIMUM.
- DOORS MUST PROVIDE DIRECT ACCESS FOR UNOBSTRUCTED REMOVAL OF PUMPS AND ACCESS TO CAPTIVE AIR SYSTEM.
- ELECTRICAL CONDUIT FOR DISCHARGE PRESSURE TRANSMITTER AND CHECK VALVE LIMIT SWITCH MUST BE PLASTIBOND AND RUN UNDER SLAB.
- 6" CONCRETE SLAB AROUND PUMP STATION SHALL HAVE WWF PLACED AT MIDPOINT 6x6 - W4xW4.
- PLUG VALVES SHALL BE INSTALLED ON HORIZONTAL PIPING SUCH THAT PLUG FACE SEATS DOWNSTREAM FROM PUMP AND PLUG ROTATES TO THE TOP OF THE PIPE IN OPEN POSITION. PLUG VALVES SHALL BE INSTALLED ON VERTICAL PIPING SUCH THAT PLUG FACE SEATS AT TOP WHEN IN CLOSED POSITION.



STANDARD PLAN NO. 805-02	DATED JULY 12, 2013	SHEET NO. 1 OF 2
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**CONCRETE DUPLEX
STATION DETAILS
(TYPE I STATION)**

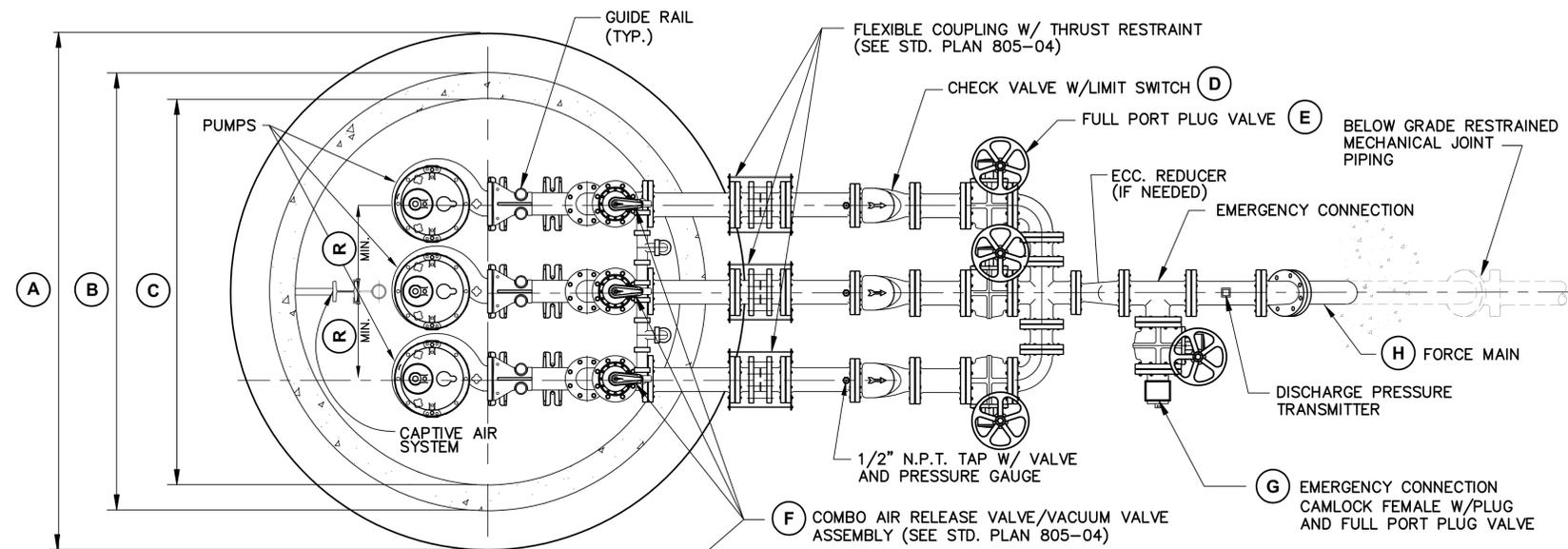
SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED	DRAWN	CHECKED	APPROVED
A. SCHULZE	G. VANNICE	N. COBB	A. SMITH

8/16	REVISED VARIOUS VALVE & PIPING DETAILS	AMS
DATE	DESCRIPTION	BY
	REVISIONS	

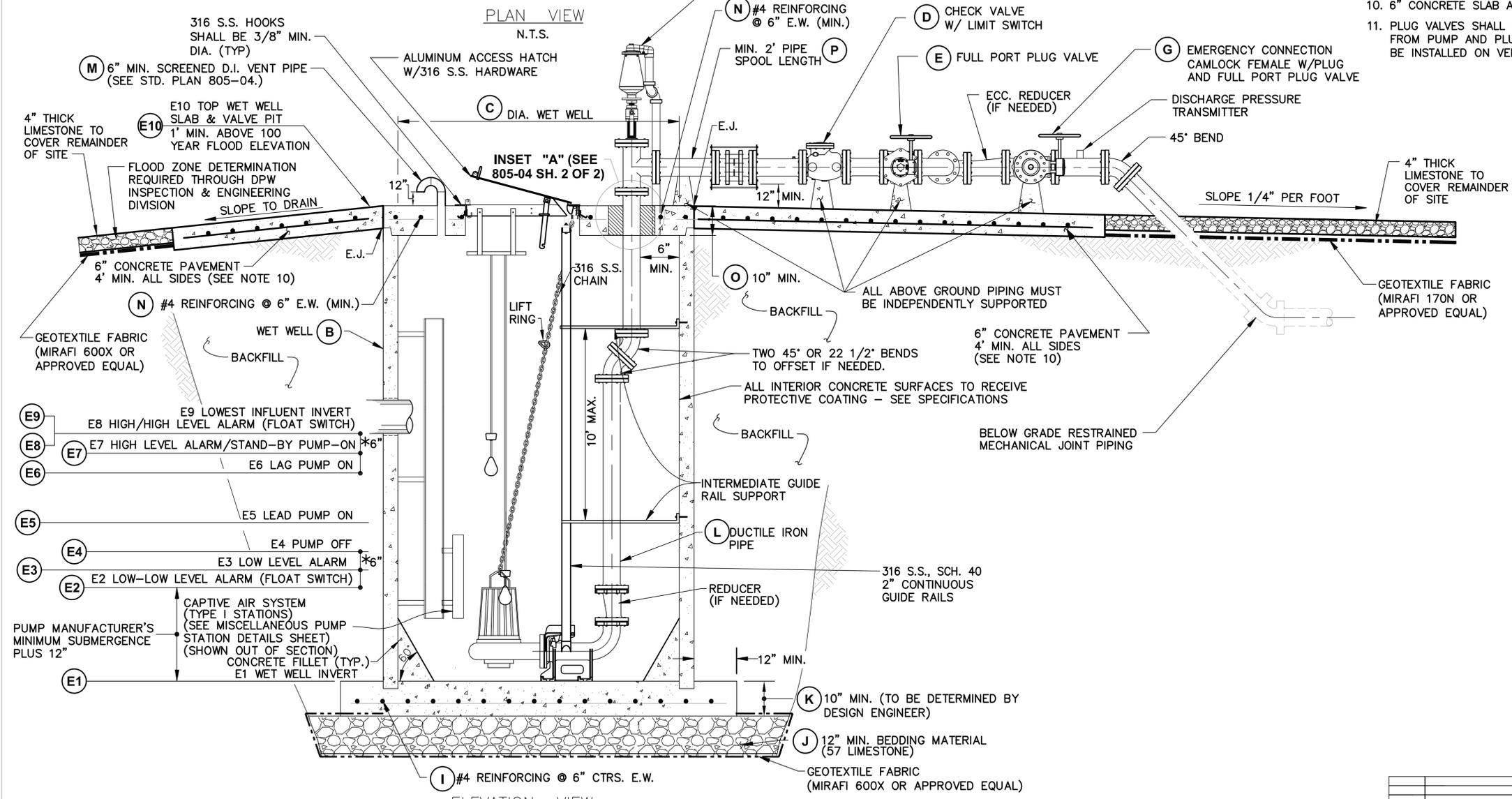
PROJECT NO.	SHEET

NOTES:

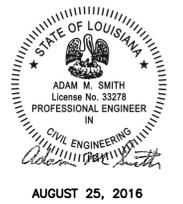
- LIMITS OF EXCAVATION TO BE DETERMINED BY THE CONSTRUCTION EXCAVATION METHOD SELECTED BY CONTRACTOR. MAINTAINING THE STABILITY OF THE SLOPED SIDES OF EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH OSHA REGULATIONS AND ANY LOCAL CODES OR ORDINANCES.
- PUMP STATION BEDDING & BACKFILL SHALL CONFORM TO SECTION 805 OF THE SPECIFICATIONS.
- ALL ABOVE GROUND PIPING MUST BE INDEPENDENTLY SUPPORTED.
- ALL FASTENERS IN WETWELL TO BE 316 STAINLESS STEEL. ALL PARTS IN WETWELL TO BE COATED AND/OR STAINLESS STEEL AS STATED IN THE SPECIFICATIONS.
- ALL PUMP STATIONS SHALL HAVE A BACKFLOW PREVENTER AND HOSE BIBB CONNECTION INSTALLED. SEE STD. PLAN 805-04.
- ALL ELECTRICAL CONDUIT PENETRATING CONCRETE WALLS SHALL BE SINGLE PENETRATION AND IN SEPARATE SLEEVES. PENETRATIONS SHALL BE A MINIMUM OF 2" APART MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
- LEVEL DIMENSIONS ARE A MINIMUM.
- DOORS MUST PROVIDE DIRECT ACCESS FOR UNOBSTRUCTED REMOVAL OF PUMPS AND ACCESS TO CAPTIVE AIR SYSTEM.
- ELECTRICAL CONDUIT FOR DISCHARGE PRESSURE TRANSMITTER AND CHECK VALVE LIMIT SWITCH MUST BE PLASTIBOND AND RUN UNDER SLAB.
- 6" CONCRETE SLAB AROUND PUMP STATION SHALL HAVE WWF PLACED AT MIDPOINT 6x6 - W4xW4.
- PLUG VALVES SHALL BE INSTALLED ON HORIZONTAL PIPING SUCH THAT PLUG FACE SEATS DOWNSTREAM FROM PUMP AND PLUG ROTATES TO THE TOP OF THE PIPE IN OPEN POSITION. PLUG VALVES SHALL BE INSTALLED ON VERTICAL PIPING SUCH THAT PLUG FACE SEATS AT TOP WHEN IN CLOSED POSITION.



PLAN VIEW
N.T.S.



ELEVATION VIEW
N.T.S.



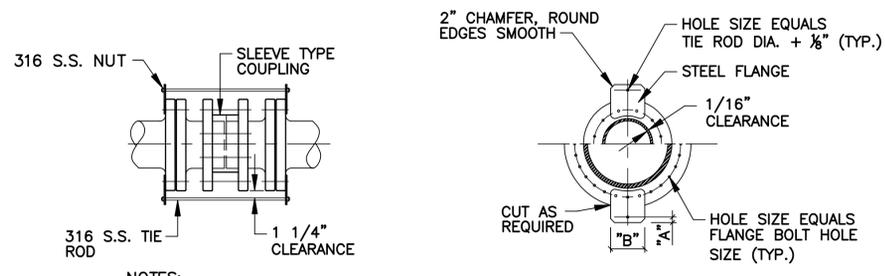
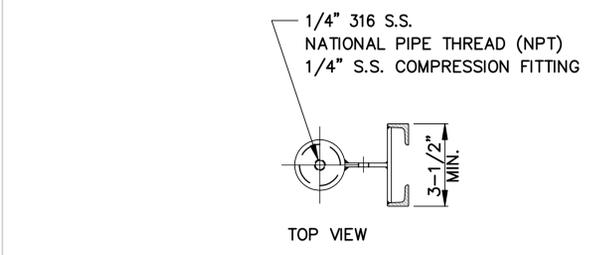
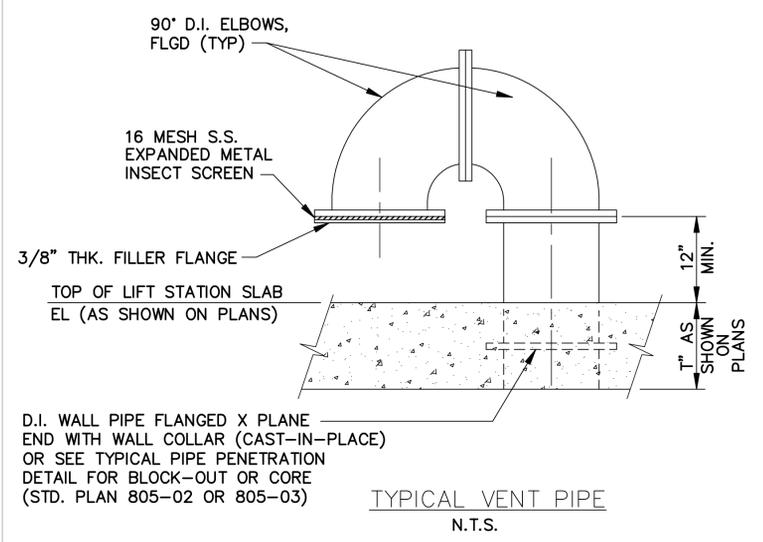
STANDARD PLAN NO. 805-03	DATED JULY 12, 2013	SHEET NO. 1 OF 2
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CONCRETE TRIPLEX
STATION DETAILS
(TYPE I OR TYPE II STATIONS)

SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED N. COBB	APPROVED A. SMITH

DATE	DESCRIPTION	AMSBY
8/16	REVISED VARIOUS VALVE & PIPING DETAILS	AMS
	REVISIONS	BY

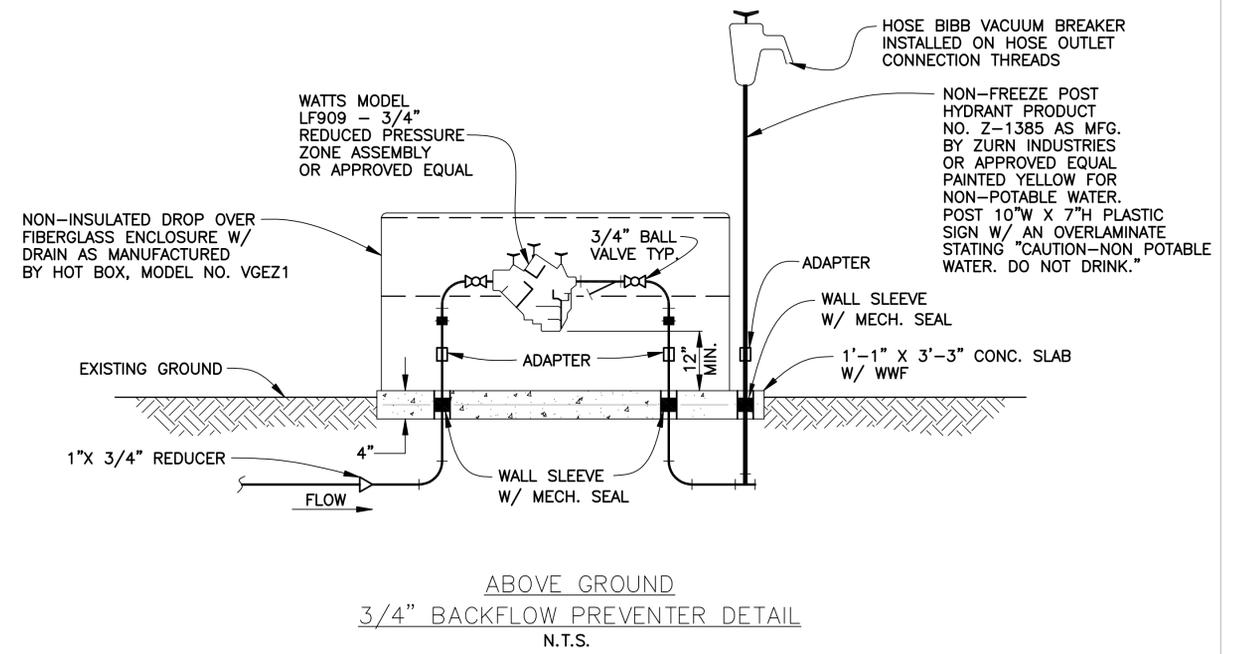
PROJECT NO.	SHEET



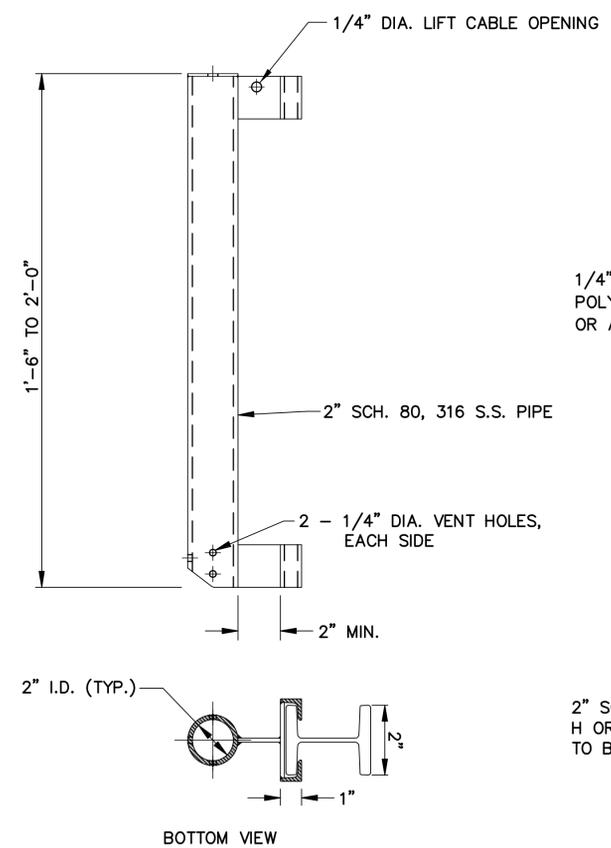
- NOTES:**
1. THE RODS SHALL BE EQUALLY SPACED AROUND PIPE.
 2. FOR STEEL FLANGE CLAMPS REQUIRING 3 BOLTS PER CLAMP. THE ORIENTATION OF THE STEEL FLANGE CLAMP AND PIPE FLANGE DRILLING IS PICTORIAL ONLY. EXACT ORIENTATION OF THE FLANGE CLAMP IS DETERMINED BY STANDARD FLANGE DRILLING.

PIPE SIZE	TIERODS		FLANGE CLAMP			
	NO.	DIA.	THICKNESS	NO. OF FLANGE BOLTS PER CLAMP	"A"	"B"
6"	2	1/2"	1/2"	2	2"	7 3/4"
8"	2	5/8"	1/2"	2	2"	8 5/8"
10"	2	3/4"	1/2"	2	2"	7 3/4"
12"	2	1"	1/2"	2	2"	8 1/2"
14"	2	1 1/8"	3/4"	2	2"	9"
16"	2	1 1/4"	7/8"	3	2"	12 1/4"
18"	2	1 3/8"	7/8"	3	2 1/2"	13"
20"	3	1 3/8"	1"	2	2 1/2"	8"
24"	4	1 3/8"	1"	2	2 1/2"	8 3/4"
30"	4	1 3/4"	1"	3	2 1/2"	12 1/4"

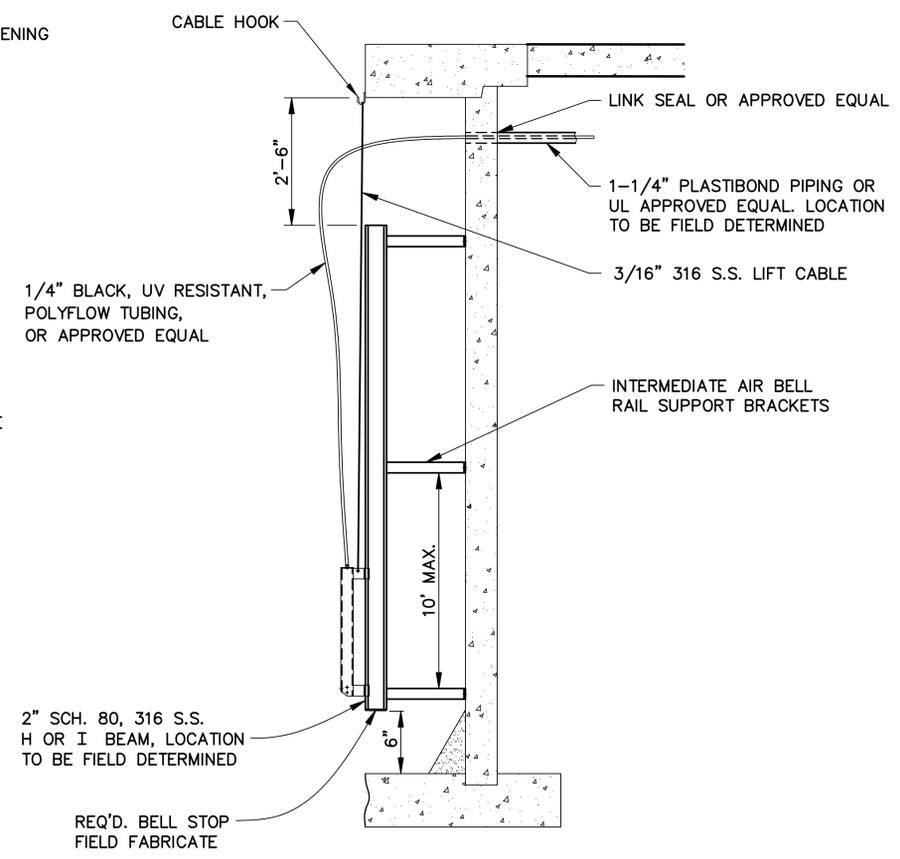
FLEXIBLE COUPLING W/ THRUST RESTRAINT
N.T.S.



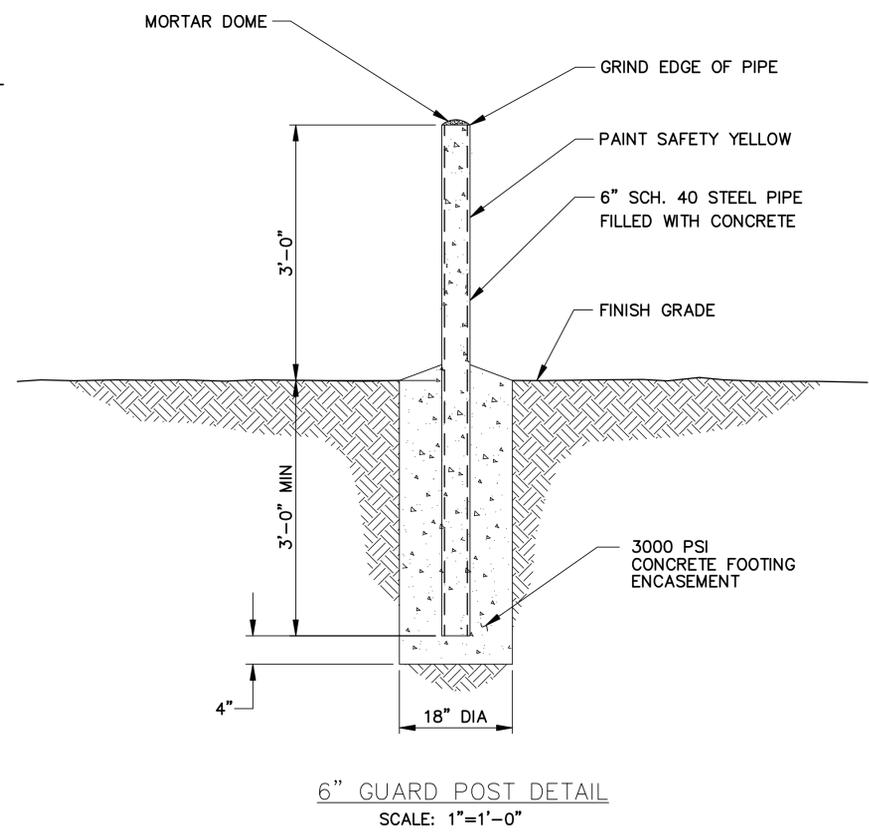
3/4" BACKFLOW PREVENTER DETAIL
N.T.S.



CAPTIVE AIR SLEEVE DETAIL (TYPE I STATION)
SCALE: 1/4"=1"



CAPTIVE AIR SYSTEM DETAIL (TYPE I STATION)
SCALE: 1/16"=1"



6" GUARD POST DETAIL
SCALE: 1"=1'-0"

STATE OF LOUISIANA
ADAM M. SMITH
License No. 53279
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
AUGUST 25, 2016

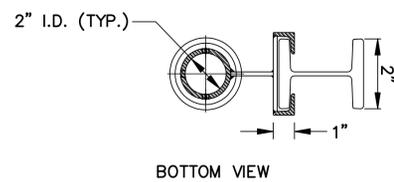
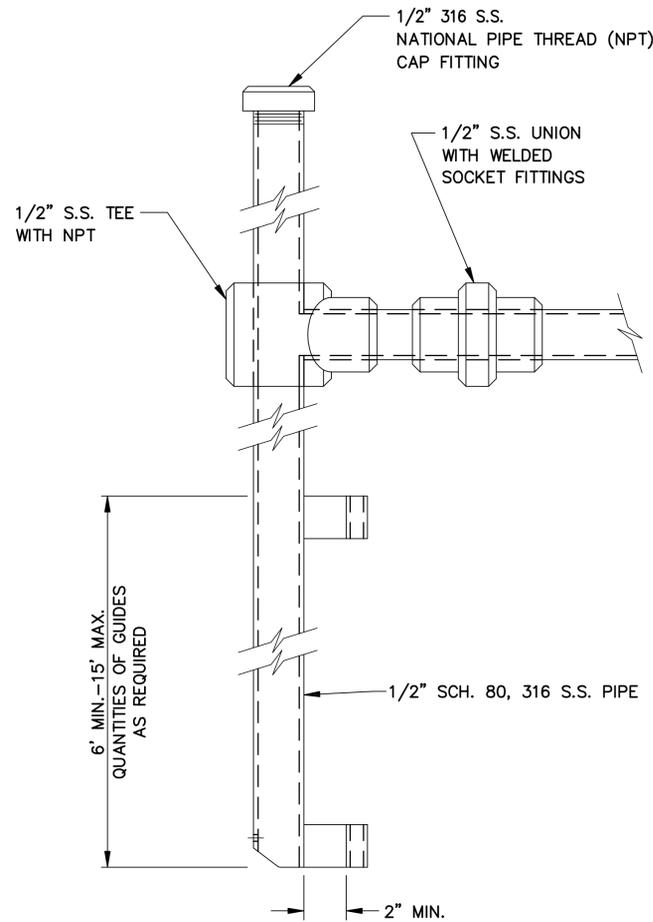
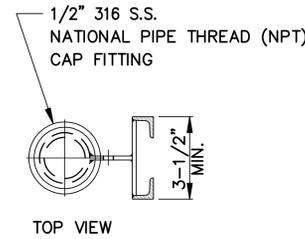
STANDARD PLAN NO. 805-04	DATED AUGUST 1, 2011	SHEET NO. 1 OF 2
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MISCELLANEOUS
PUMP STATION DETAILS

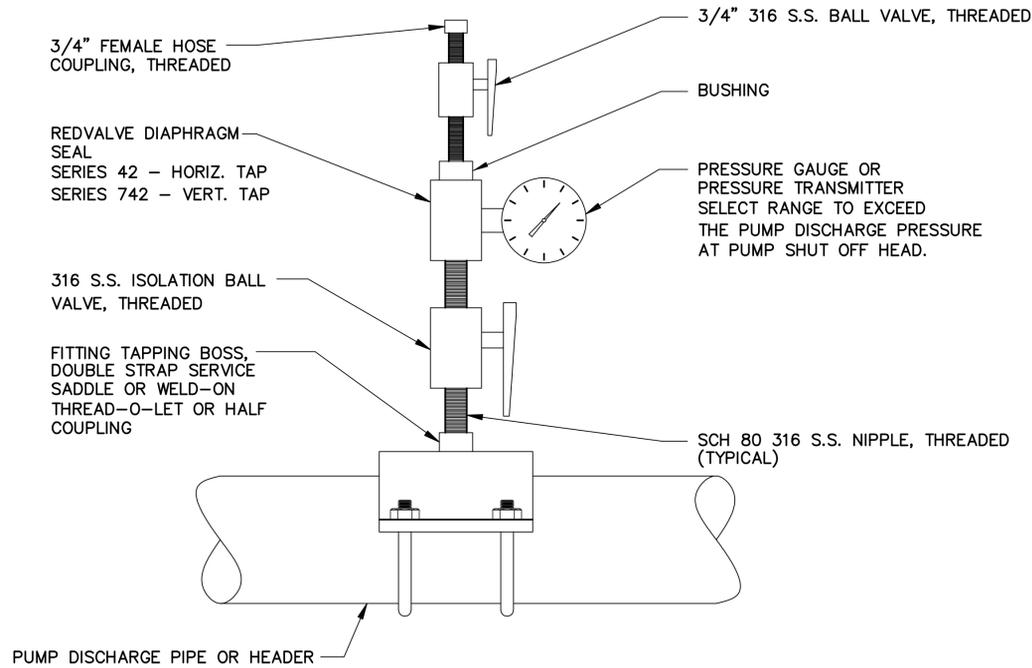
SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED N. COBB	APPROVED A. SMITH

8/16	REVISED VENT PIPE DETAIL & ADDED FLEX COUPLING DETAIL	A.M.S.
4/13	REVISED TITLE BLOCK	A.S.
DATE	DESCRIPTION	BY
	REVISIONS	

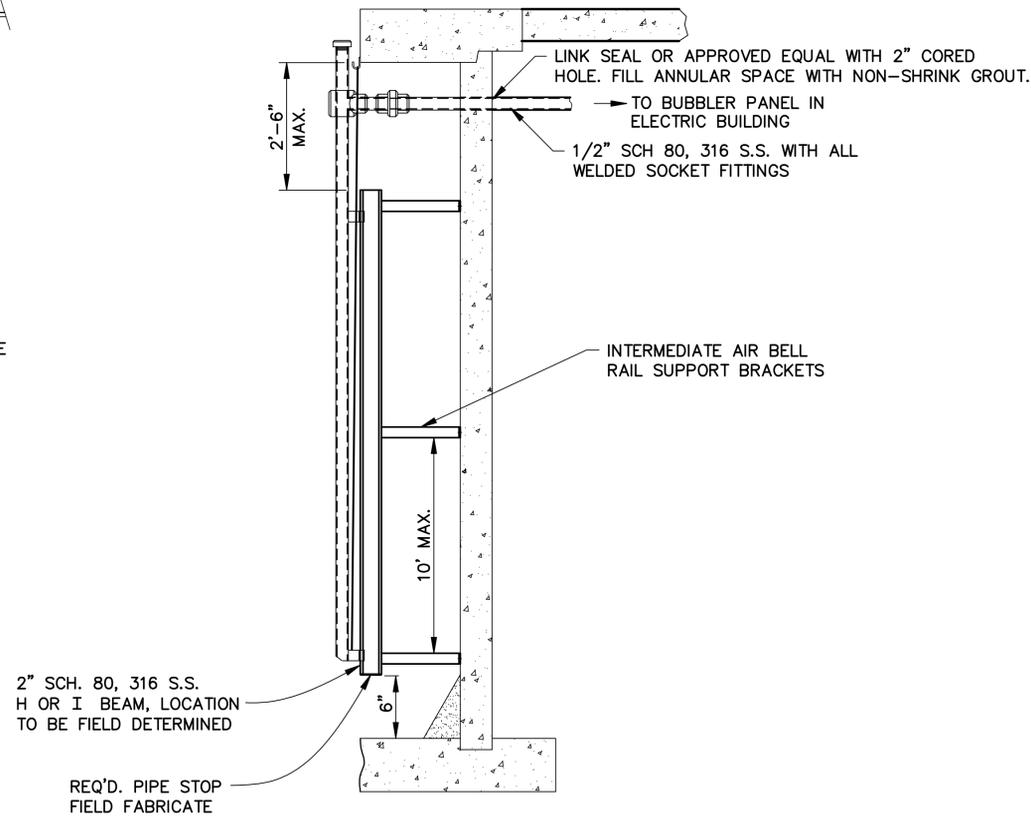
PROJECT NO.	SHEET



BUBBLER TUBE SLEEVE DETAIL (TYPE II STATION)
SCALE: 1/4"=1"



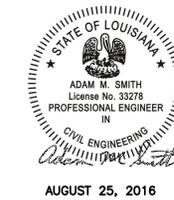
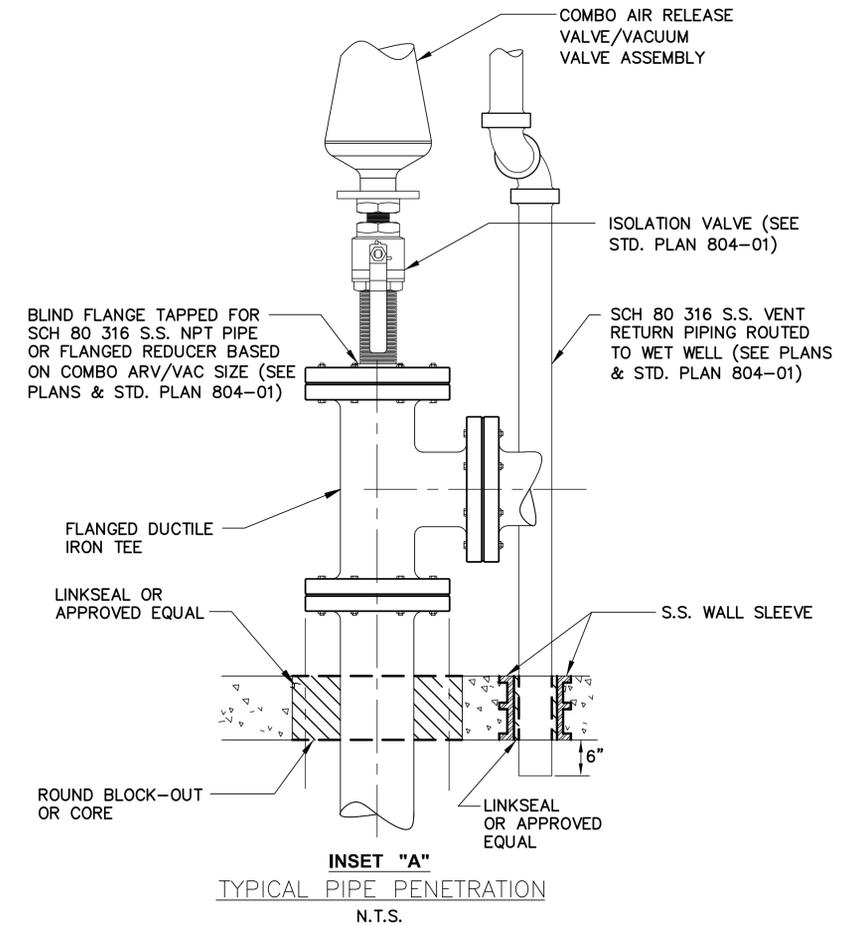
MOUNTING DETAIL FOR DISCHARGE PRESSURE TRANSMITTER AND PRESSURE GAUGE
SCALE: N.T.S.



BUBBLER SYSTEM DETAIL (TYPE II STATION)
SCALE: 1/16"=1"

NOTES:

1. PROVIDE 1" NIPPLES, ISOLATION BALL VALVE AND DIAPHRAGM SEAL FOR PIPES 6" AND SMALLER.
2. PROVIDE 2" NIPPLES, ISOLATION BALL VALVE AND DIAPHRAGM SEAL FOR PIPES 8" AND LARGER.
3. ALL FITTINGS, VALVES, AND GAUGES SHALL BE 316 S.S.



STANDARD PLAN NO. 805-04	DATED AUGUST 1, 2011	SHEET NO. 2 OF 2
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MISCELLANEOUS PUMP STATION DETAILS

SEWER ENGINEERING DIVISION			
DEPARTMENT OF ENVIRONMENTAL SERVICES			
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED	DRAWN	CHECKED	APPROVED
A. SCHULZE	G. VANNICE	N. COBB	A. SMITH

8/16	REVISED DETAIL CALLOUTS & ADDED PIPE	A.M.S.
4/13	PENETRATION DETAIL	A.S.
DATE	DESCRIPTION	BY
	REVISIONS	