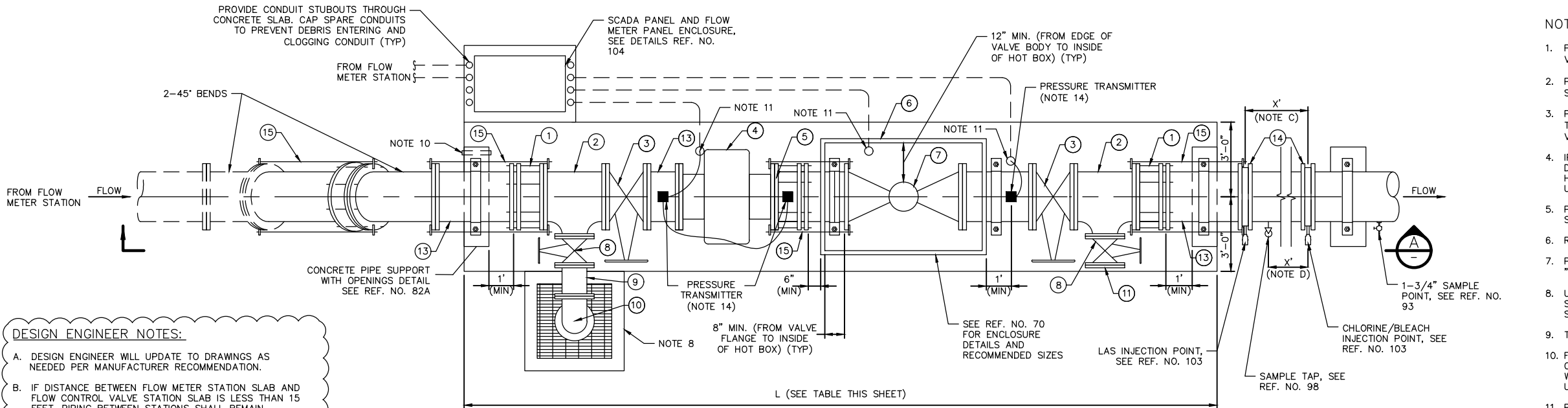
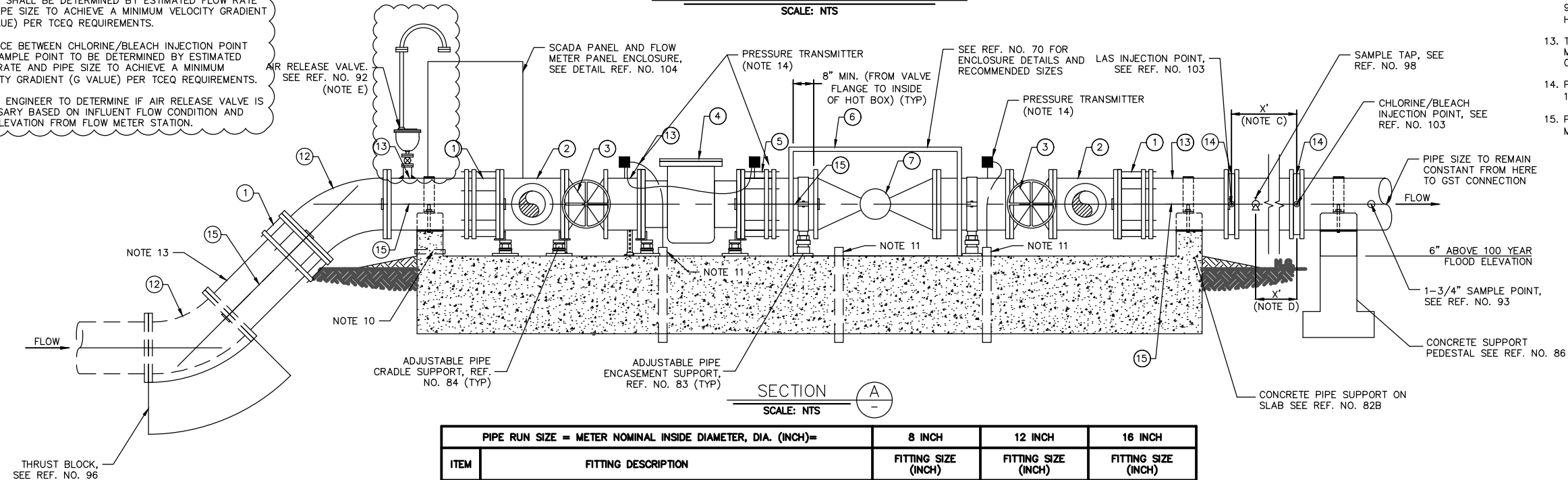


No.	Date	Revisions	App.



DESIGN ENGINEER NOTES:

- DESIGN ENGINEER WILL UPDATE TO DRAWINGS AS NEEDED PER MANUFACTURER RECOMMENDATION.
- IF DISTANCE BETWEEN FLOW METER STATION SLAB AND FLOW CONTROL VALVE STATION SLAB IS LESS THAN 15 FEET, PIPING BETWEEN STATIONS SHALL REMAIN ABOVEGROUND AND TWO- 45° BENDS (ITEM 12) ARE NOT REQUIRED.
- DISTANCE BETWEEN CHLORINE/BLEACH AND LAS INJECTION POINTS SHALL BE DETERMINED BY ESTIMATED FLOW RATE AND PIPE SIZE TO ACHIEVE A MINIMUM VELOCITY GRADIENT (G VALUE) PER TCEQ REQUIREMENTS.
- DISTANCE BETWEEN CHLORINE/BLEACH INJECTION POINT AND SAMPLE POINT TO BE DETERMINED BY ESTIMATED FLOW RATE AND PIPE SIZE TO ACHIEVE A MINIMUM VELOCITY GRADIENT (G VALUE) PER TCEQ REQUIREMENTS.
- DESIGN ENGINEER TO DETERMINE IF AIR RELEASE VALVE IS NECESSARY BASED ON INFLUENT FLOW CONDITION AND PIPE ELEVATION FROM FLOW METER STATION.



PIPE RUN NOMINAL DIAMETER TABLE		
PIPE DIA. (INCHES)	L (MIN) (FEET)	
	STEEL	DI
8	16.1	14.8
12	19.0	17.8
16	21.4	21.2

* L (LENGTH) OF FLOW CONTROL VALVE STATION SLAB IS A MIN. MAY BE INCREASED BASED ON PIPING SHOP DRAWINGS.

PIPE RUN SIZE = METER NOMINAL INSIDE DIAMETER, DIA. (INCH)=		8 INCH	12 INCH	16 INCH
ITEM	FITTING DESCRIPTION	FITTING SIZE (INCH)	FITTING SIZE (INCH)	FITTING SIZE (INCH)
1	FLANGED COUPLING ADAPTER WITH RESTRAINTS (DIAMETER) (SEE NOTE 7)	8	12	16
2	TEE (DIAMETER, RUN X RUN X BRANCH)	8X8X4	12X12X6	16X16X6
3	VALVE, GATE GV-1 (DIAMETER) (SEE NOTE 1)	8	12	16
4	BASKET STRAINER (DIAMETER) (SEE NOTE 2)	8	12	16
5	FLEXIBLE COUPLING (DIAMETER) (SEE NOTE 7)	8	12	16
6	HOT BOX	N/A	N/A	N/A
7	VALVE, FLOW CONTROL, FCV-1 (DIAMETER) (SEE NOTE 3)	8	12	16
8	VALVE, GATE GV-1 (DIAMETER) (SEE NOTE 1)	6	8	12
9	PIPE SPOOL (DIAMETER)	4	6	6
10	ELBOW, 90 DEGREE (DIAMETER)	4	6	6
11	BLIND FLANGE (DIAMETER) (SEE NOTE 9)	4	6	6
12	ELBOW, 45 DEGREE (DIAMETER) (SEE NOTE B)	8	12	16
13	PIPE SPOOL (DIAMETER)	8	12	16
14	STATIC MIXER WITH 2 INJECTION POINTS (DIAMETER) (NOTE 15)	8	12	16
15	RESTRAINTS (NOTE 12)	NOTE 12	NOTE 12	NOTE 12

NOTES:

- PROVIDE GATE VALVE PER TECHNICAL SPECIFICATION SECTION 02521- "GATE VALVES."
- PROVIDE STRAINER PER TECHNICAL SPECIFICATION SECTION 15150- "BASKET STRAINER."
- PROVIDE COMBINATION FLOW CONTROL VALVE AND APPURTENANCES PER TECHNICAL SPECIFICATION SECTION 15105- "COMBINATION FLOW CONTROL VALVE."
- IF THE ENGINEER REQUIRES AN INCREMENTAL PIPE RUN WITH A NOMINAL INSIDE DIAMETER NOT APPEARING IN THESE STANDARD DRAWINGS. THE STRUCTURE, HEREIN DESIGNATED, FOR THE NEXT LARGER NOMINAL DIAMETER SHOULD BE USED.
- PROVIDE AND INSTALL INSTRUMENTATION AND CONTROLS PER TECHNICAL SPECIFICATIONS.
- REFER TO REF. NO.69 FOR REINFORCING STEEL DETAILS.
- PROVIDE COUPLINGS PER TECHNICAL SPECIFICATION SECTION 15155- "COUPLINGS AND COUPLING ADAPTERS."
- USE SPLASH BOX DETAIL REF. NO. 100 IF STORMWATER PIPING AVAILABLE ON SITE. USE REF. NO. 101 IF SURFACE DRAINAGE IS UTILIZED ON SITE. IF STATIONS ARE LESS THAN 15 FEET APART, THIS SPLASH BOX IS OPTIONAL.
- TAP AND PLUG BLIND FLANGE FOR FUTURE PRESSURE GAUGE.
- FUTURE CONDUITS SHALL BE ROUTED THROUGH OPENINGS AT BASE OF CONCRETE PIPE SUPPORT AND FIELD ROUTED PARALLEL AND ADJACENT TO THE WATER LINE TO THE APPROPRIATE LOCATION. THEY SHALL BE SUPPORTED WITH UNISTRUT ON THE CONCRETE SURFACE.
- PROVIDE CONDUIT STUBOUTS AT PROPOSED CONTROL VALVE AND PRESSURE TRANSMITTER FOR WIRING TO CONTROL PANELS AT FLOW CONTROL VALVE STATION.
- RESTRAINED JOINTS WILL BE INSTALLED AT THE LOCATIONS SHOWN. RESTRAINTS WILL BE INSTALLED PER THE DETAILS AND NOTES FOUND ON REF. NO. 89 & 90. ALL RESTRAINTS WILL INCLUDE HOT-DIPPED GALVANIZED ANCHOR PLATES, HEX NUTS, LOCK WASHERS, AND TIE-RODS (ALL-THREAD).
- THE PIPE BETWEEN FLOW METER STATION AND FLOW CONTROL VALVE STATION MAY BE BURIED AS SHOWN IF THE STATIONS ARE MORE THAN 15 FEET APART, OR THE PIPE MAY REMAIN ABOVEGROUND WITH PROPER PIPE SUPPORTS.
- PROVIDE PRESSURE TRANSMITTER PER TECHNICAL SPECIFICATION SECTION 15130- "PRESSURE GAUGES, TRANSMITTERS, AND ELEMENTS."
- PROVIDE STATIC MIXER PER TECHNICAL SPECIFICATION SECTION 11337- "STATIC MIXERS AND APPURTENANCES."



STANDARD FLOW CONTROL VALVE STATION- SLAB ON GRADE

APPROVED BY:

Shanabgini

DESIGN MANAGER

EFF. DATE:

12/22/2020

REF. NO.

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