

This is a detailed topographic map of the Fishdale area in Nassau County, New York. The map features contour lines indicating elevation, with peaks reaching over 300 feet. Key locations labeled include Fishdale, Old Southgate Village, Cedar, and Jones Hill. Infrastructure such as the Long Beach Expressway (I-190) and the Interchange No. 2 are shown. A thick black line is drawn across the map, starting from the left edge near the Boat Ramp and extending towards the right. A label 'SUBJECT' with an arrow points to a specific location on this line, near the center of the map. Other labels include 'Boat Ramp', 'Golf Course', 'Sewage Disposal', and 'Old Southgate Village'.

NORTH 	 <i>5/13/18</i>	<table border="1"> <tr> <td>NO.</td> <td>DATE</td> <td>REVISION</td> <td>BY</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISION	BY					DRAWN BY: ARB CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12950 RI. LIC. NO.: 6694 NH. LIC. NO.: 3368	CHECKED BY: FB FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597	CLIENT: PETER F. O'CONNELL 500 VICTORY ROAD QUINCY, MA COVER SHEET SITE ADDRESS: DOUTY AND STALLION HILL ROAD STURBRIDGE, MA 01566	39 ELM STREET SOUTHBRIDGE, MA 01550 P 508.765.0195 F 508.765.0193 B BERTIN ENGINEERING www.bertinengineering.com	DATE: 5.18.18 SCALE: 1" = 40' REV #: 0 PROJECT #: 16M-181 DWG. NO.: C-1
			NO.	DATE	REVISION	BY									
BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 DATE: 5.18.18	PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736														

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SEWER FLOW CALCULATIONS
PROPOSED 45 LOT SUBDIVISION:
45 X 440* GPD = 19,800 GPD

EXISTING SINGLE-FAMILY HOMES ON DOUTY RD AND STALLION HILL RD
(24):
24 X 440* GPD = 10,560 GPD

POTENTIAL SUBDIVISION OF EXISTING LOTS**:
31 X 440* GPD = 13,640 GPD

TOTAL:19,800 + 10,560 + 13,640 = 44,000 GPD

*ASSUMES ALL SINGLE-FAMILY HOMES HAVE FOUR (4) BEDROOMS.
FLOWS ARE ESTIMATED BASED ON WASSDEP TITLE V DESIGN CRITERIA
OF 110 GPD PER BEDROOM FOR A SINGLE-FAMILY RESIDENCE.

**A LOT FOR THIS PURPOSE IS CONSIDERED DIVIDABLE IF IT HAS AT
LEAST 300' OF FRONTAGE AND 2-ACRES OF LAND. SOME OF THESE
LOTS MAY NOT BE PRACTICAL TO SUBDIVIDE DUE TO EXISTING BUILDING
LOCATIONS AND ZONING COMPLIANCE.

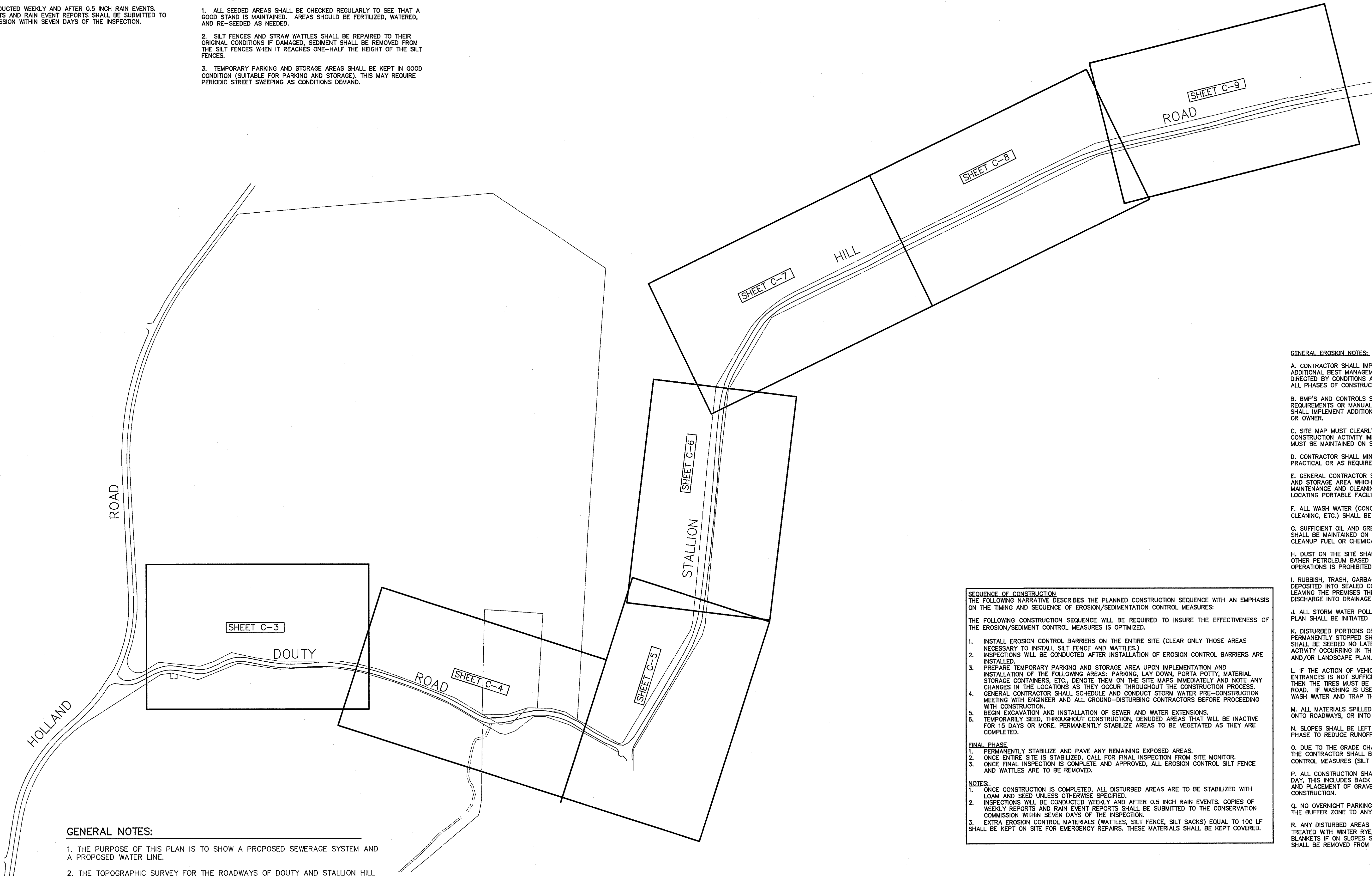
NOTE: PRIOR TO ANY WORK TAKING PLACE

1. A PRE-CONSTRUCTION MEETING SHOULD BE SCHEDULED BETWEEN BERTIN ENGINEERING AND CONSTRUCTION MANAGER. ALL ASPECTS OF EROSION CONTROLS AND CONSTRUCTION OF PROJECT ARE TO BE DISCUSSED.
2. WATTLES AND SILTATION FENCE TO BE INSTALLED.
3. INSPECTIONS WILL BE CONDUCTED WEEKLY AND AFTER 0.5 INCH RAIN EVENTS. COPIES OF WEEKLY REPORTS AND RAIN EVENT REPORTS SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION WITHIN SEVEN DAYS OF THE INSPECTION.

MAINTENANCE:

- ALL EROSION CONTROL MEASURES STATED ON THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
1. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEEDED AS NEEDED.
 2. SILT FENCES AND STRAW WATTLES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCES.
 3. TEMPORARY PARKING AND STORAGE AREAS SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC STREET SWEEPING AS CONDITIONS DEMAND.

Mass State Plane



GENERAL NOTES:

1. THE PURPOSE OF THIS PLAN IS TO SHOW A PROPOSED SEWERAGE SYSTEM AND A PROPOSED WATER LINE.
2. THE TOPOGRAPHIC SURVEY FOR THE ROADWAYS OF DOUTY AND STALLION HILL ARE BASED ON AN ACTUAL FIELD SURVEY.
3. THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT, VISIBLE USES OF THE LAND AND DEPICT THEM ON THE SURVEY; HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.
4. HORIZONTAL DATUM BASED ON NAVD 88, GEOID 12A, ESTABLISHED VIA GPS
5. VERTICAL DATUM BASED ON ASSUMED DATUM.
6. BY GEOGRAPHICAL PLOTTING ONLY THE SITE IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AS PER THE FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NO. # 25027C0926E WITH AN EFFECTIVE DATE OF JULY 4, 2011.
7. ABUTTERS NAMES ARE IN RESPECT TO THE LATEST ASSESSORS RECORDS AVAILABLE.

SEQUENCE OF CONSTRUCTION

THE FOLLOWING NARRATIVE DESCRIBES THE PLANNED CONSTRUCTION SEQUENCE WITH AN EMPHASIS ON THE TIMING AND SEQUENCE OF EROSION/SEDIMENTATION CONTROL MEASURES:

THE FOLLOWING CONSTRUCTION SEQUENCE WILL BE REQUIRED TO INSURE THE EFFECTIVENESS OF THE EROSION/SEDIMENT CONTROL MEASURES IS OPTIMIZED.

1. INSTALL EROSION CONTROL BARRIERS ON THE ENTIRE SITE (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE AND WATTLES).
2. INSPECTIONS WILL BE CONDUCTED AFTER INSTALLATION OF EROSION CONTROL BARRIERS ARE INSTALLED.
3. PREPARE TEMPORARY PARKING AND STORAGE AREA UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: PARKING, LAY DOWN, PORTA POTT, MATERIAL STORAGE CONTAINERS, ETC. DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
4. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
5. BEGIN EXCAVATION AND INSTALLATION OF SEWER AND WATER EXTENSIONS.
6. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 15 DAYS OR MORE. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE COMPLETED.

FINAL PHASE

1. PERMANENTLY STABILIZE AND PAVE ANY REMAINING EXPOSED AREAS.
2. ONCE ENTIRE SITE IS STABILIZED, CALL FOR FINAL INSPECTION FROM SITE MONITOR.
3. ONCE FINAL INSPECTION IS COMPLETE AND APPROVED, ALL EROSION CONTROL SILT FENCE AND WATTLES ARE TO BE REMOVED.

NOTES:

1. ONCE CONSTRUCTION IS COMPLETED, ALL DISTURBED AREAS ARE TO BE STABILIZED WITH LOAM AND SEED UNLESS OTHERWISE SPECIFIED.
2. INSPECTIONS WILL BE CONDUCTED WEEKLY AND AFTER 0.5 INCH RAIN EVENTS. COPIES OF WEEKLY REPORTS AND RAIN EVENT REPORTS SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION WITHIN SEVEN DAYS OF THE INSPECTION.
3. EXTRA EROSION CONTROL MATERIALS (WATTLES, SILT FENCE, SILT SACKS) EQUAL TO 100 LF SHALL BE KEPT ON SITE FOR EMERGENCY REPAIRS. THESE MATERIALS SHALL BE KEPT COVERED.

GENERAL EROSION NOTES:

A. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

B. BMP'S AND CONTROLS SHALL CONFORM TO FEDERAL, STATE OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.

C. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.

D. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

E. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS AND TOILET FACILITIES.

F. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

G. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLotation BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEANUP FUEL OR CHEMICAL SPILLS AND LEAKS.

H. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

I. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS; MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATER OF THE STATE.

J. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.

K. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 15 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.

L. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

M. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS, OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

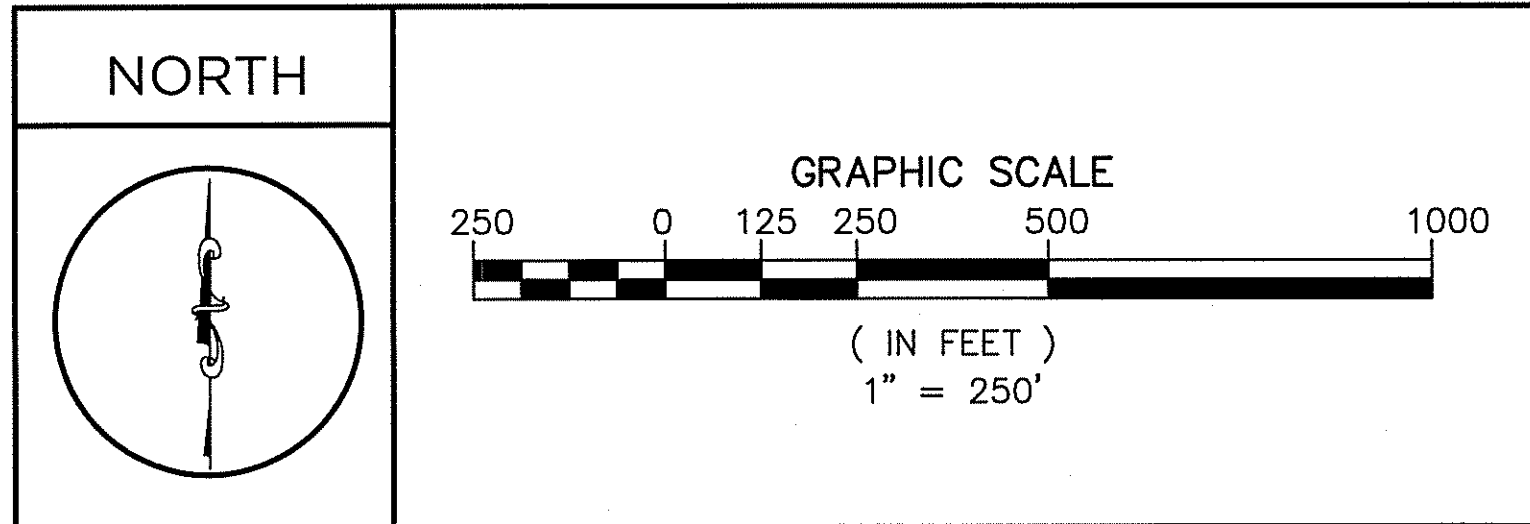
N. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

O. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC) TO PREVENT EROSION.

P. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

Q. NO OVERNIGHT PARKING OF HYDRAULIC EQUIPMENT WILL BE ALLOWED IN THE BUFFER ZONE TO ANY RESOURCE AREA.

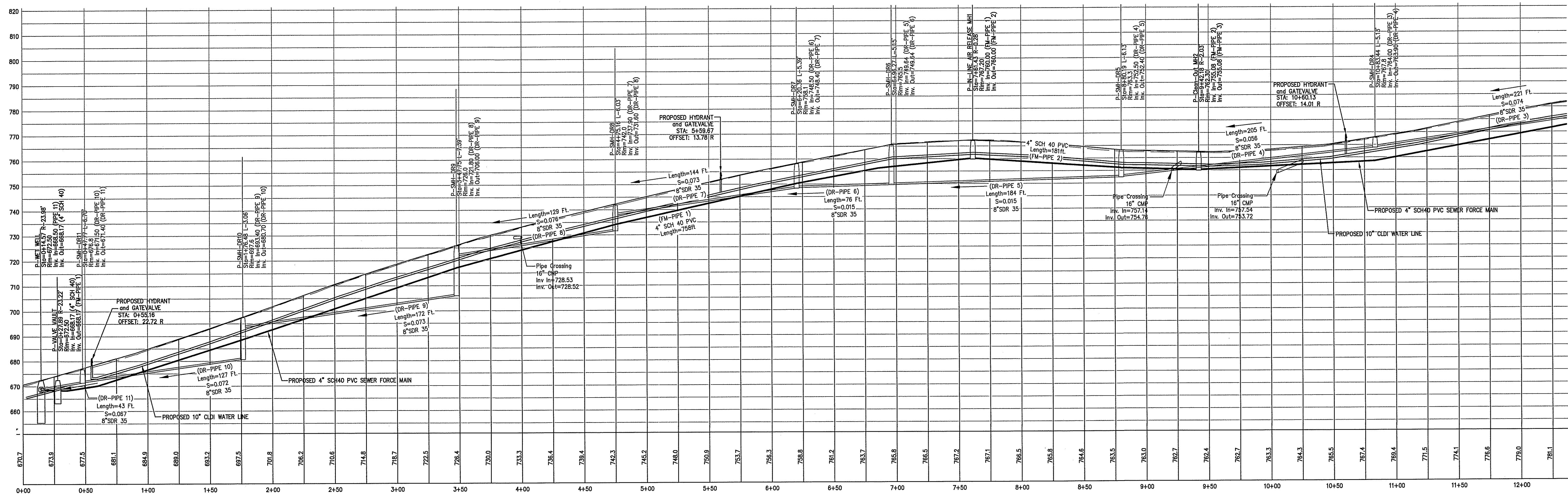
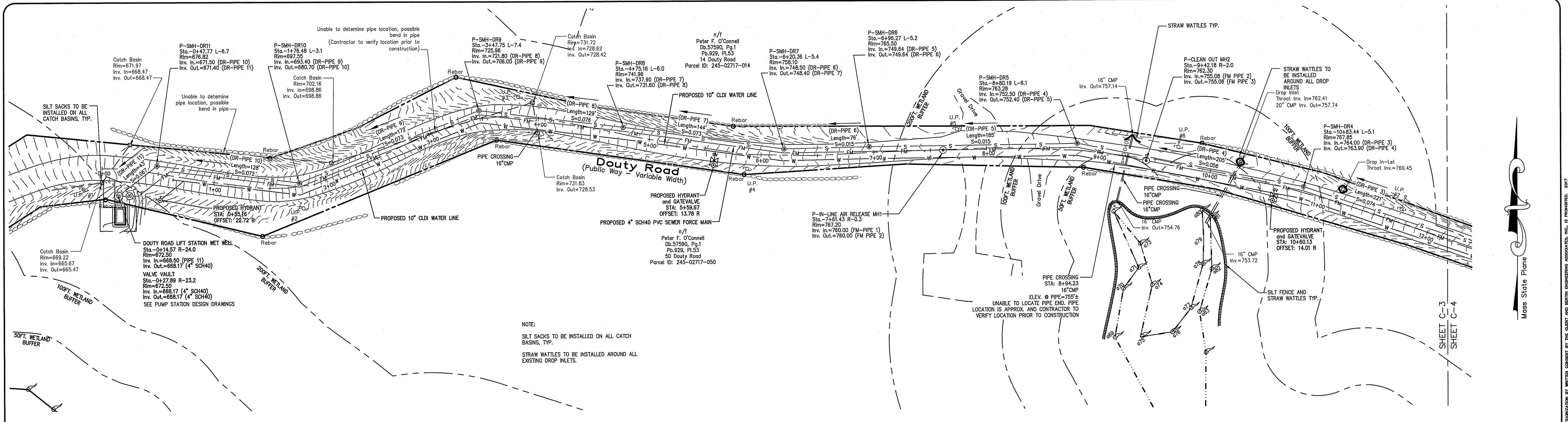
R. ANY DISTURBED AREAS OUTSIDE OF THE GROWING SEASON ARE TO BE TREATED WITH WINTER RYE, STRAW MULCH, AND/OR EROSION CONTROL BLANKETS IF ON SLOPES STEEPER THAN 3:1. W. ALL TREE CLEARING DEBRIS SHALL BE REMOVED FROM THE SITE; NO MATERIAL SHALL BE BURIED ON-SITE.



NO.	DATE	REVISION	BY	STAMP	DRAWN BY:	CHECKED BY:	CLIENT:
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					CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12950 RI. LIC. NO.: 6694 NH. LIC. NO.: 9368	FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597	INDEX PLAN SITE ADDRESS: DOUTY AND STALLION HILL ROAD STURBRIDGE, MA 01566
					BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 CT. LIC. NO.: 16970	PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736	39 ELM STREET SOUTHBURIDGE, MA 01550 P 508.765.0195 F 508.765.0193 www.bertinengineering.com
					DATE: 5/18/18	SCALE: 1" = 250'	REV #: 0
							PROJECT #: 16M-181
							DWG. NO.: C-2

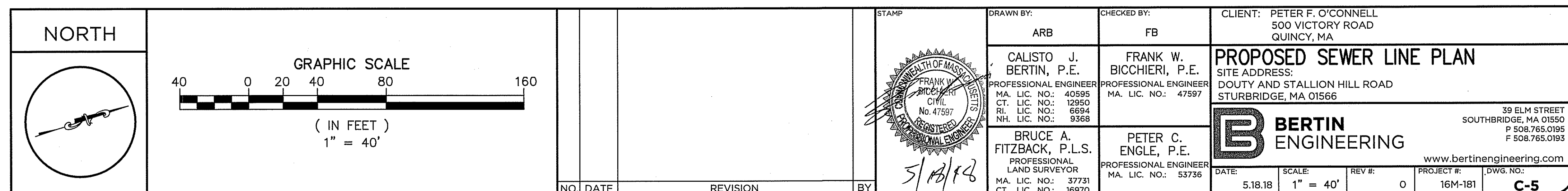
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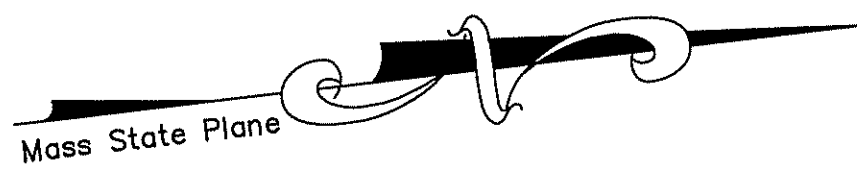
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PROPOSED SEWER LINE PLAN SITE ADDRESS: DOUTY AND STALLION HILL ROAD STURBRIDGE, MA 01566		B BERTIN ENGINEERING 39 ELM STREET SOUTHBRIDGE, MA 01550 P 508.765.0195 F 508.765.0193 www.bertinengineering.com		DATE: 5.18.18 SCALE: 1" = 40' REV #: 0 PROJECT #: 16M-181 DWG. NO.: C-3	

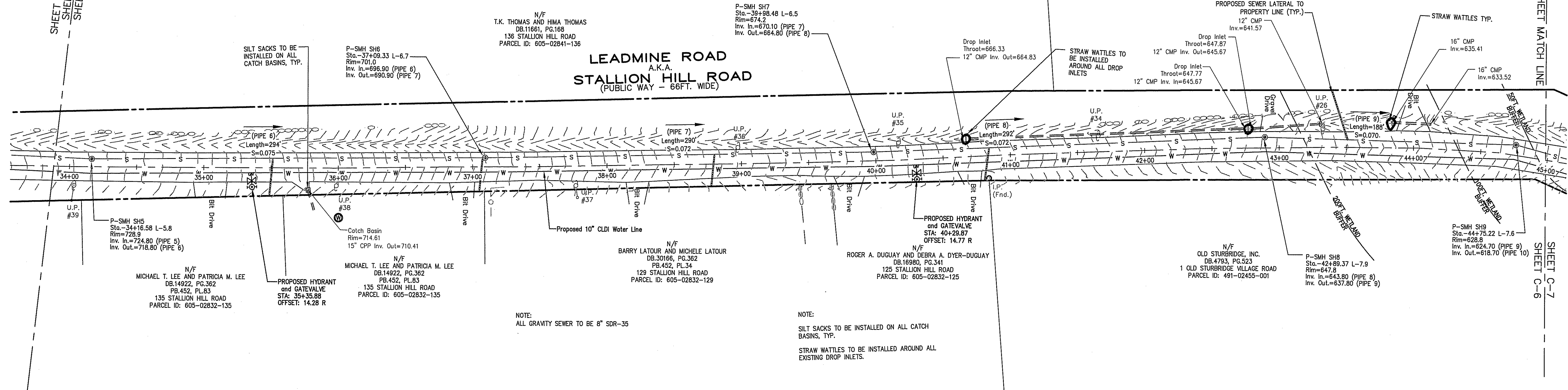
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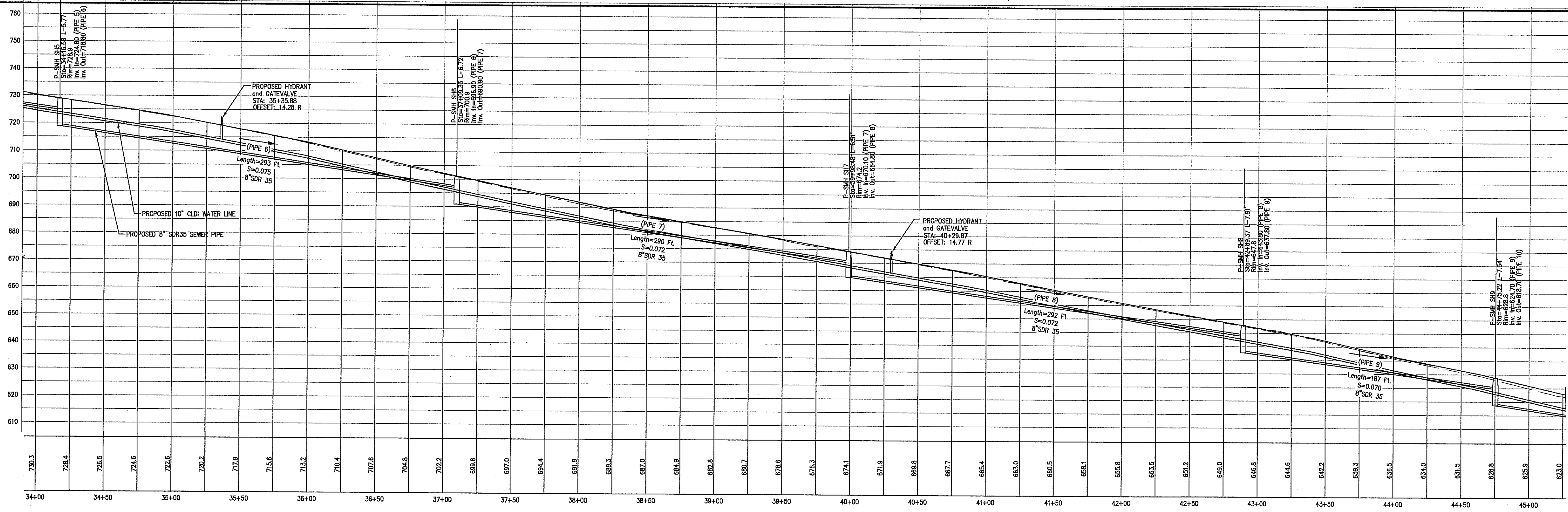
SHEET MATCH LINE
SHEET C-5
SHEET C-6

SHEET MATCH LINE
SHEET C-6
SHEET C-7



NOTE:
ALL GRAVITY SEWER TO BE 8\"/>

NOTE:
SILT SACKS TO BE INSTALLED ON ALL CATCH BASINS, TYP.
STRAW WATTLES TO BE INSTALLED AROUND ALL EXISTING DROP INLETS.

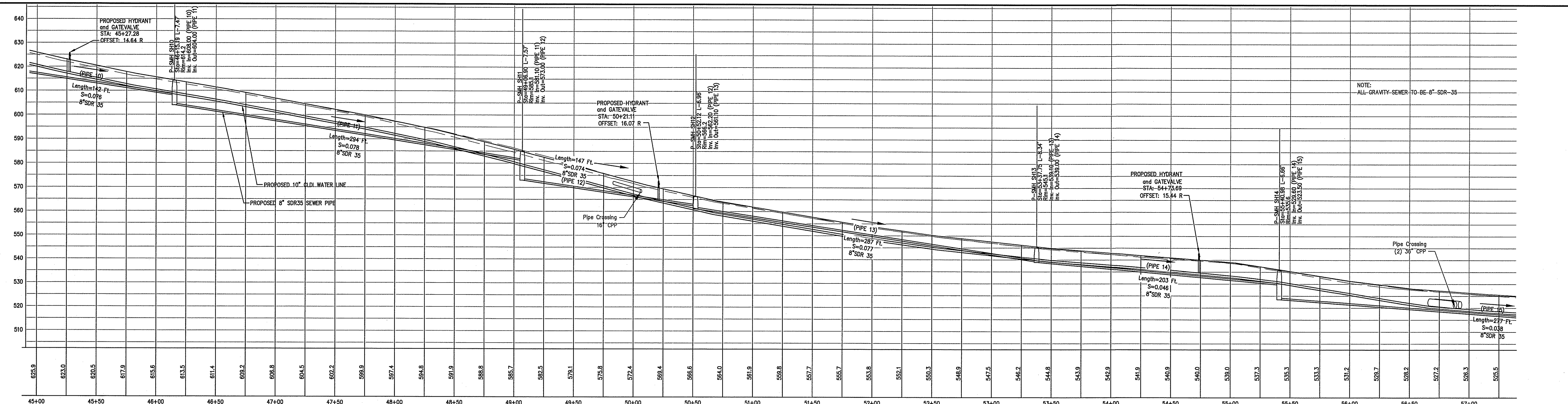
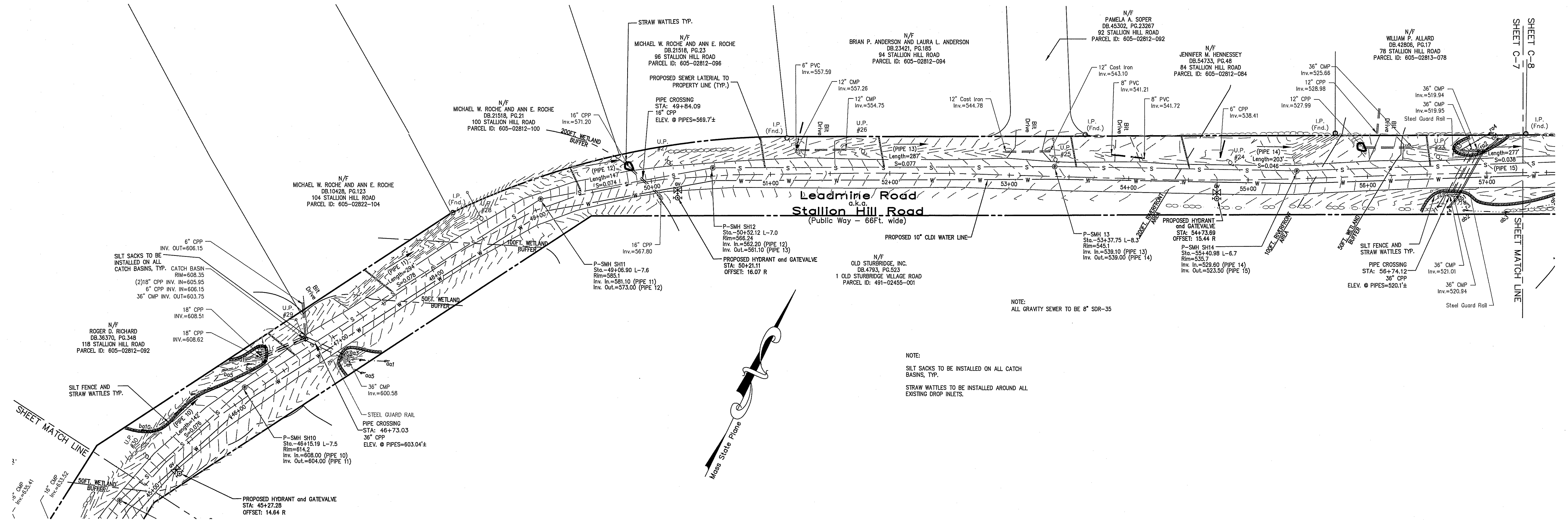


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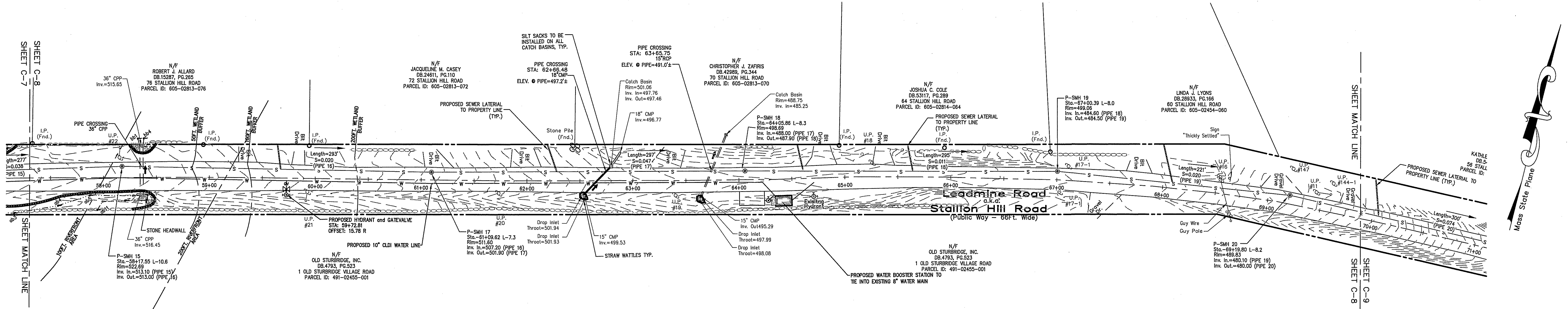
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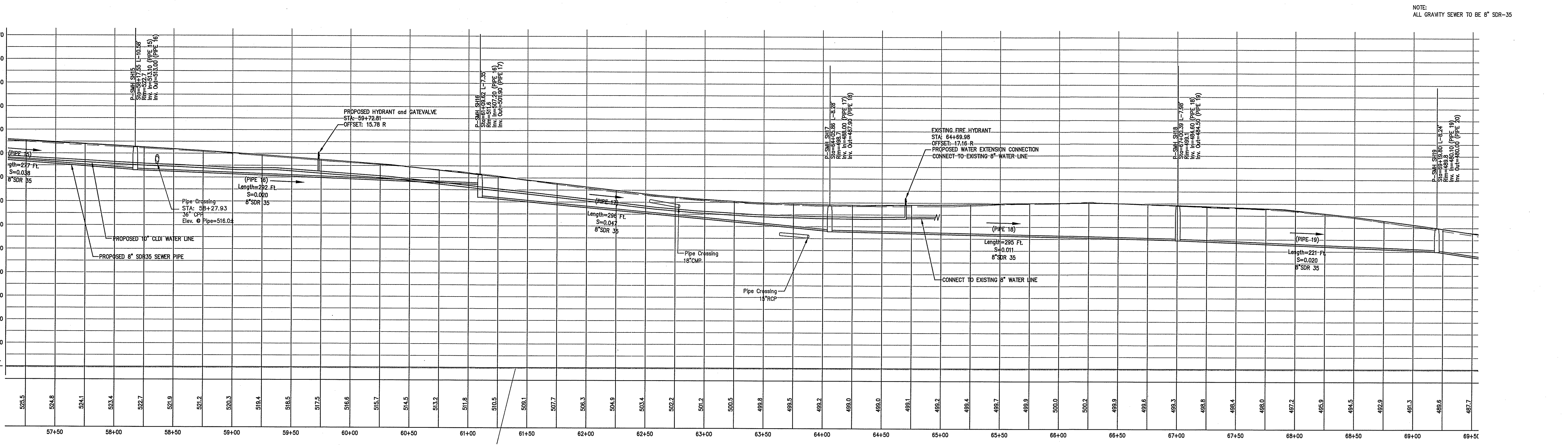
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B BERTIN ENGINEERING 39 ELM STREET SOUTHBRIDGE, MA 01550 P 508.765.0195 F 508.765.0193 www.bertinengineering.com		DATE: 5.18.18 SCALE: 1" = 40' REV #: 0 PROJECT #: 16M-181 DWG. NO.: C-7	

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NOTE:
ALL GRAVITY SEWER TO BE 8" SDR-35

NOTE:
SLT SACKS TO BE INSTALLED ON ALL CATCH BASINS, TYP.
STRAW WATILES TO BE INSTALLED AROUND ALL EXISTING DROP INLETS.



NOTE:
ALL GRAVITY SEWER TO BE 8" SDR-35

NORTH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

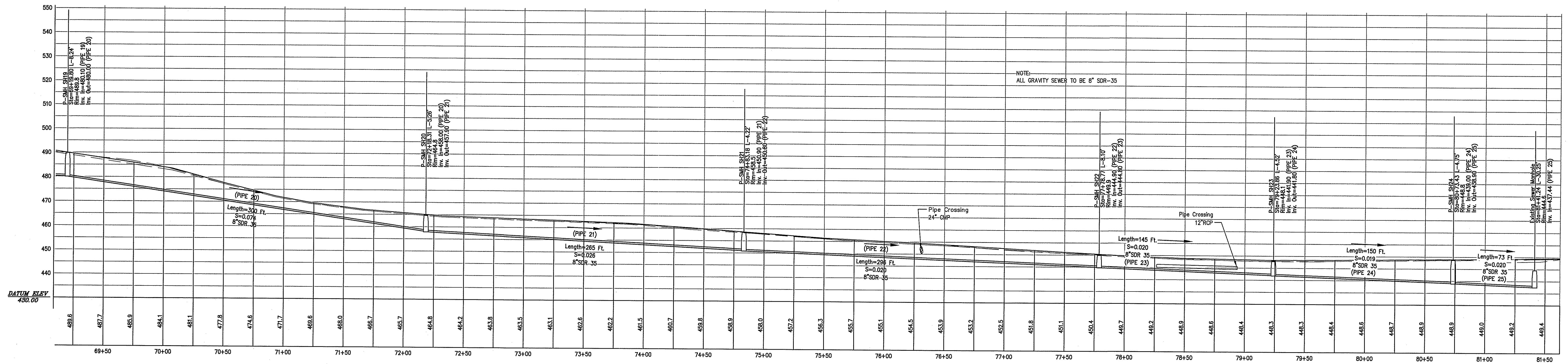
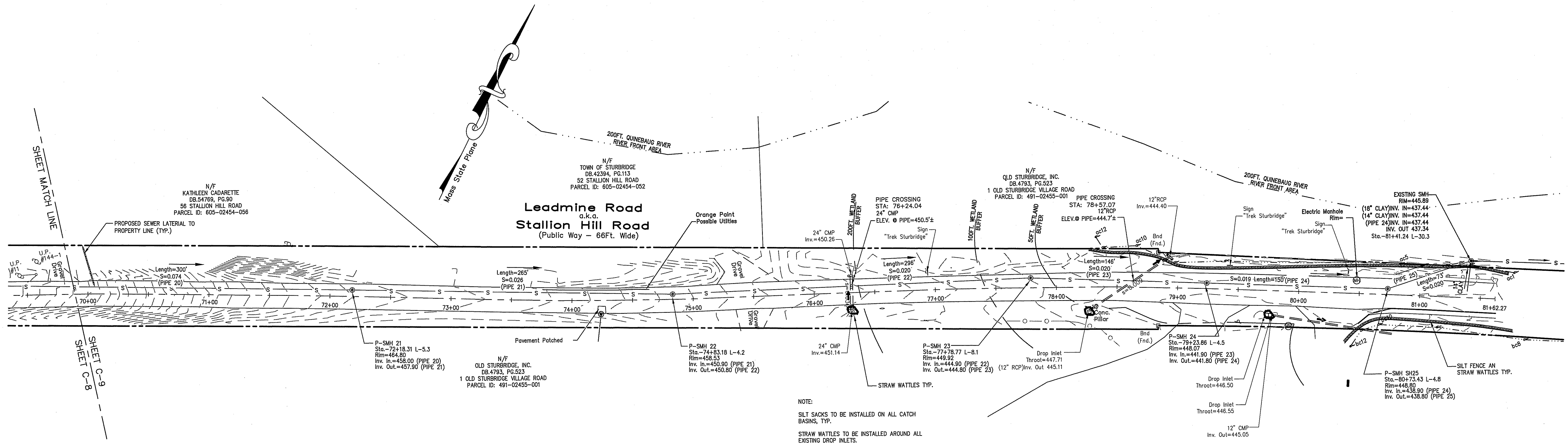
1" = 40'

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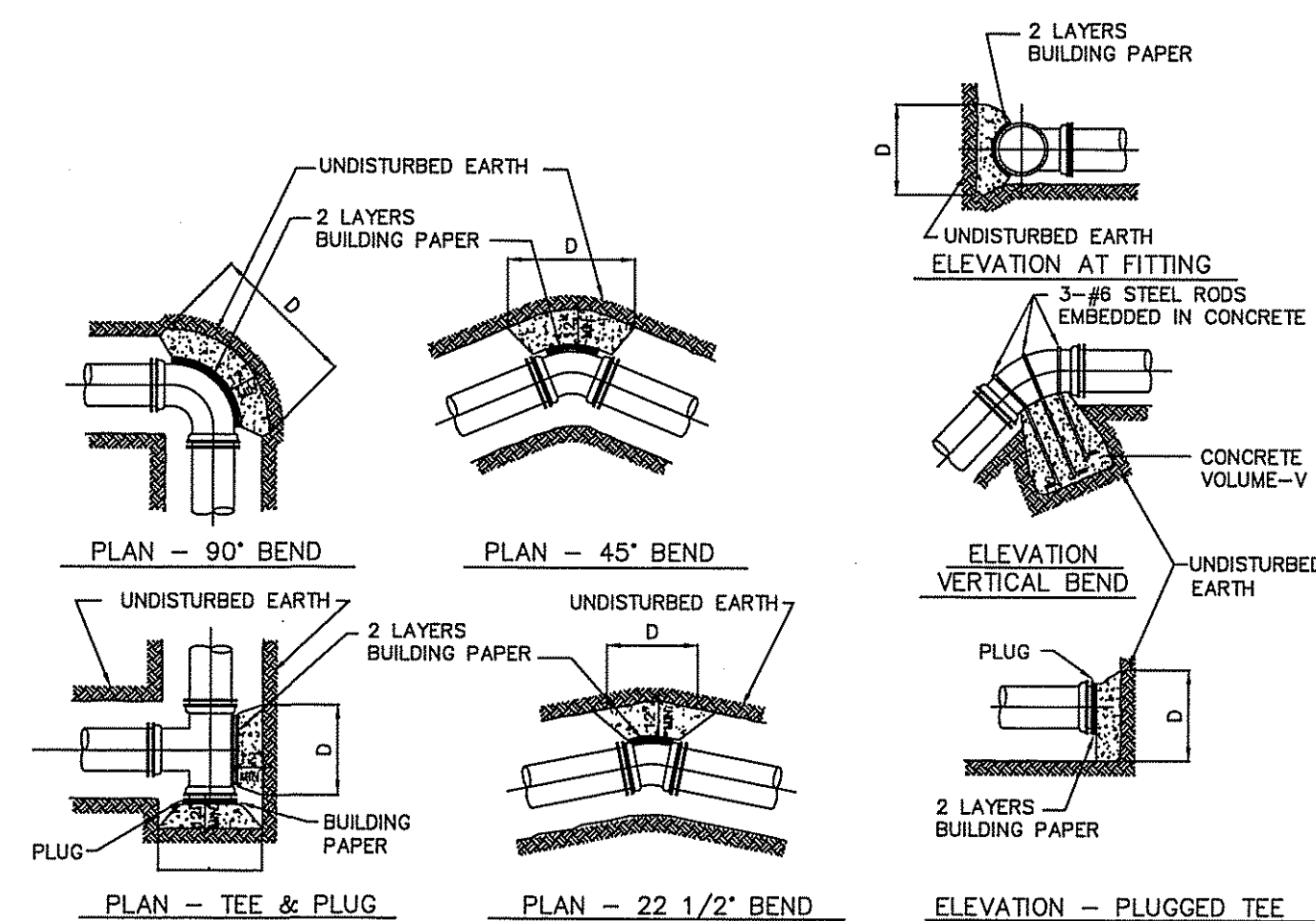
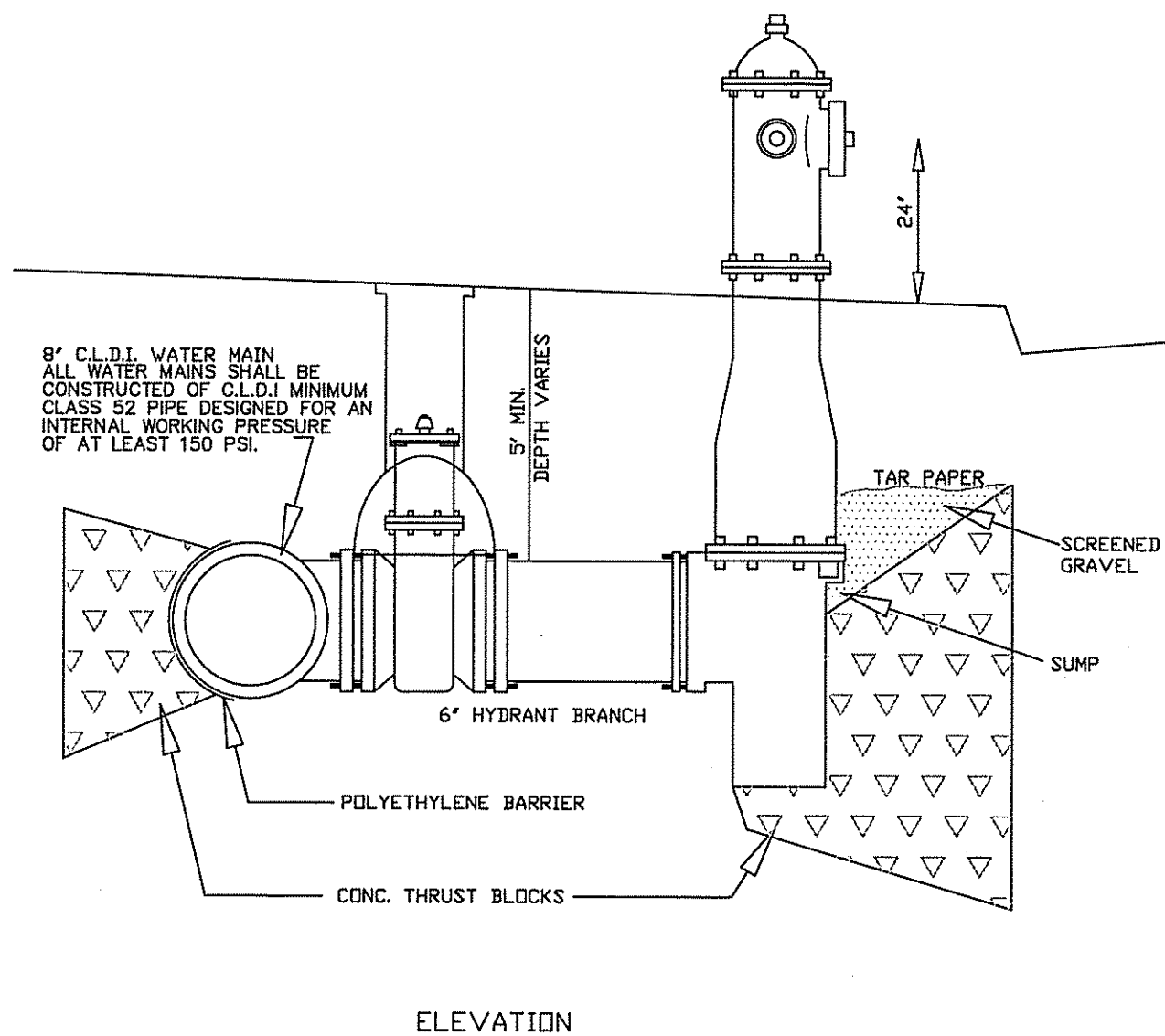
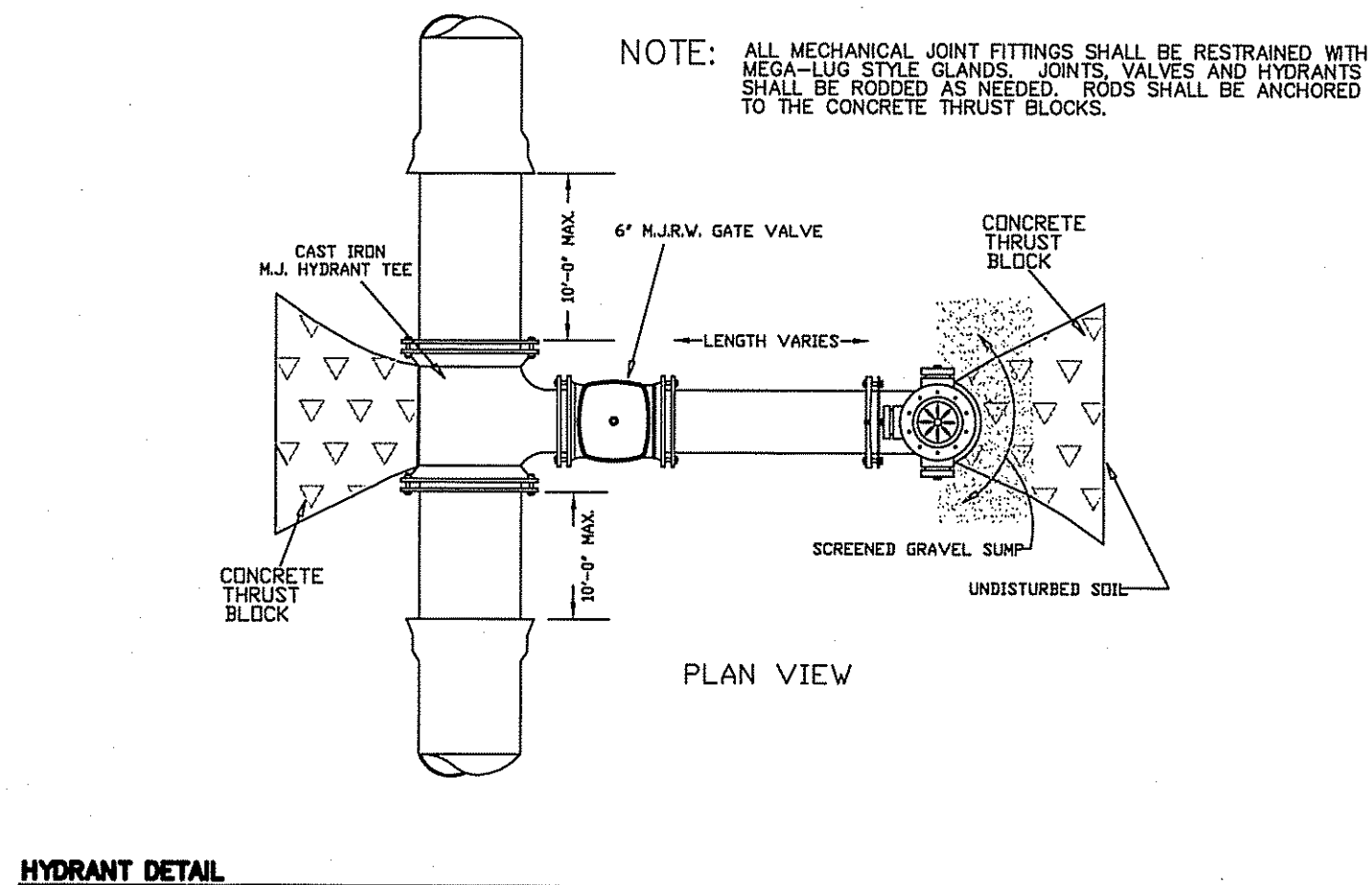
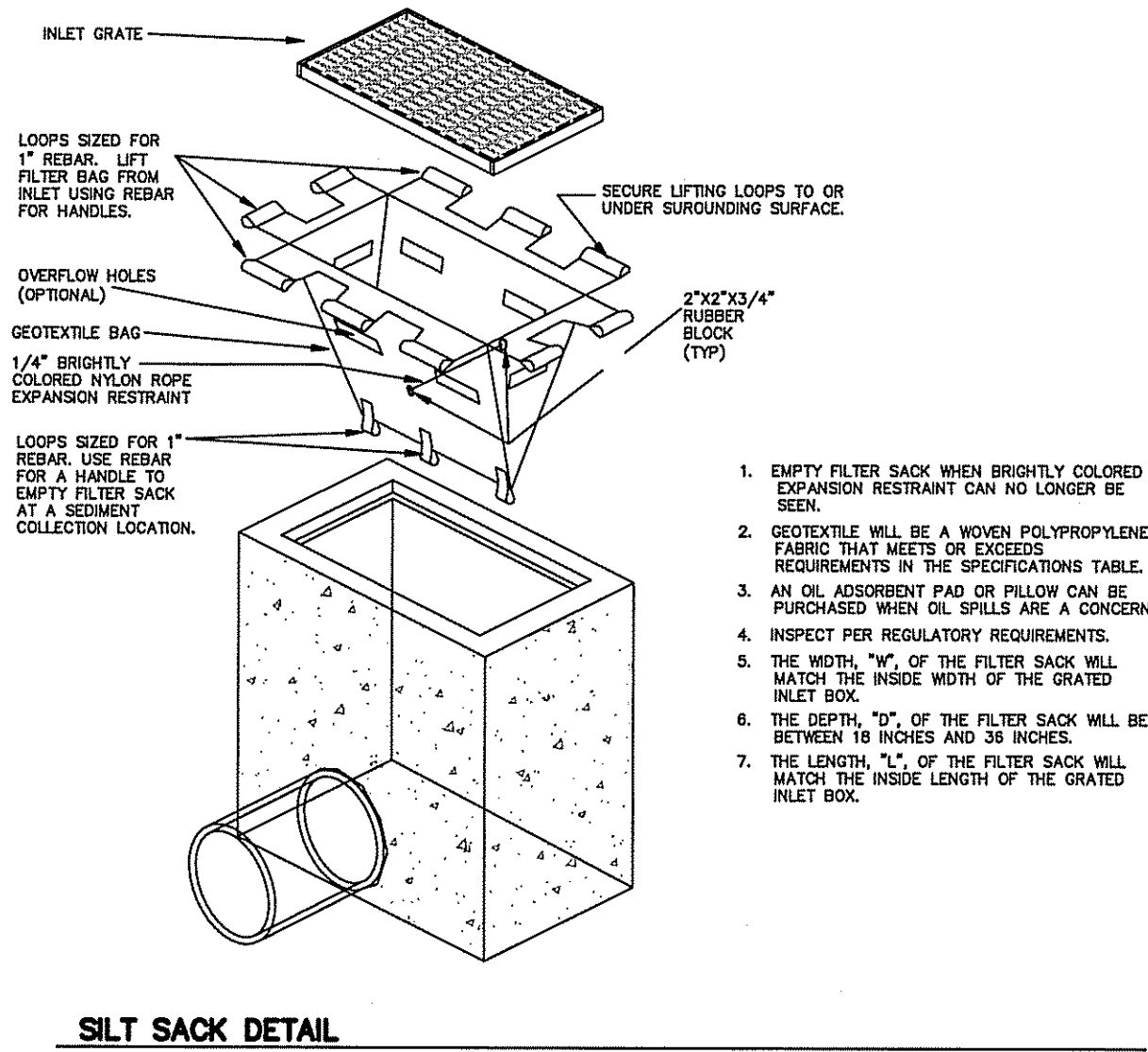
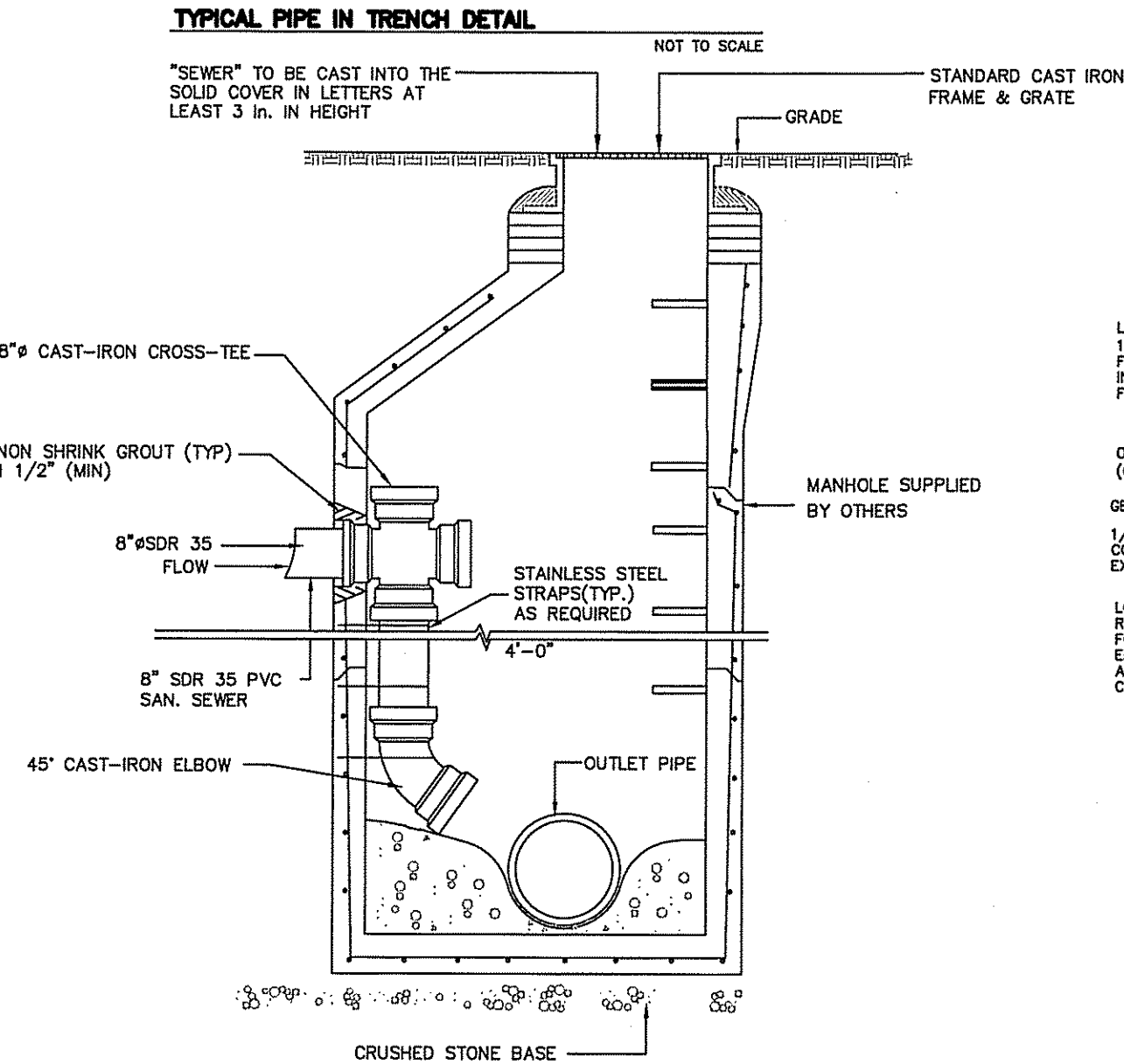
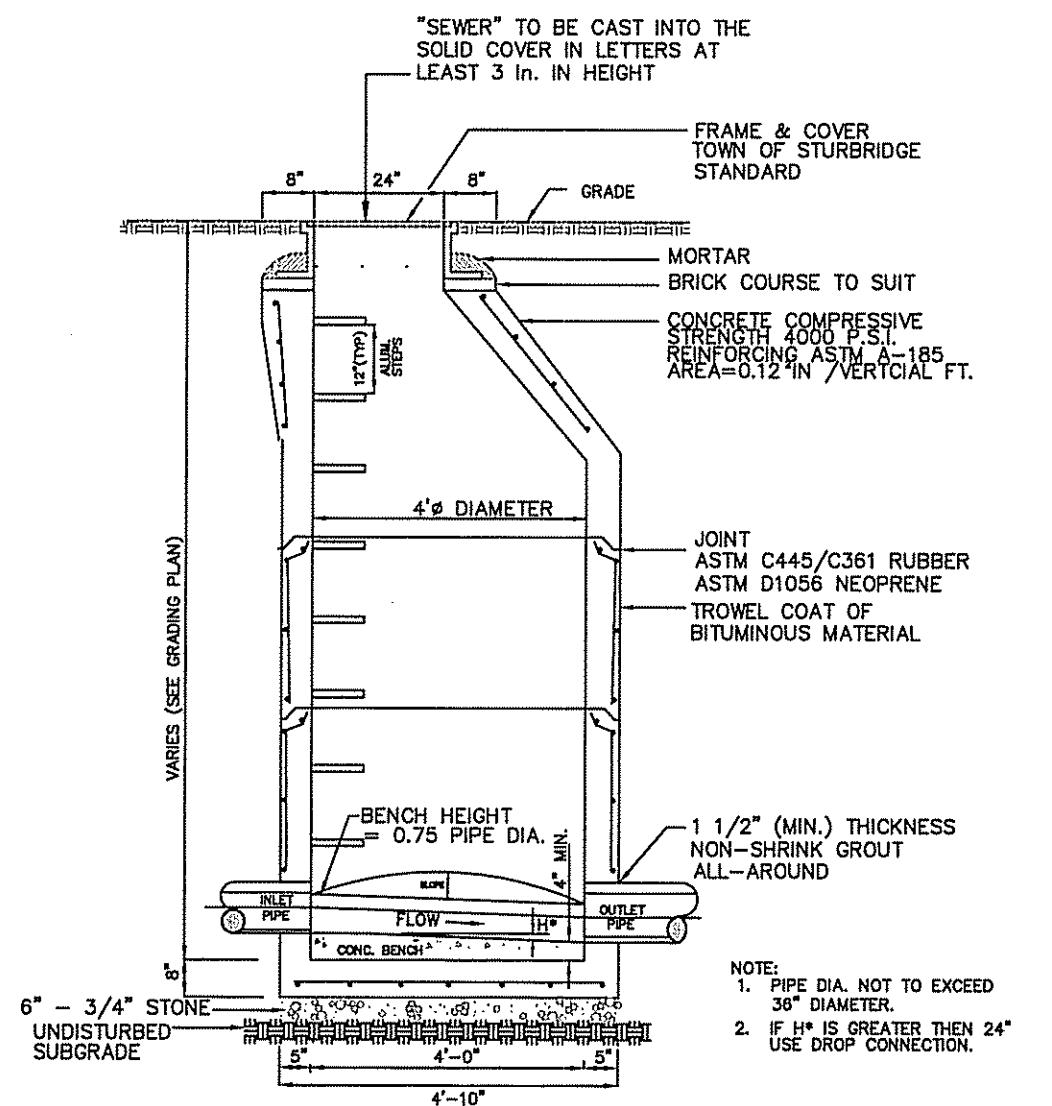
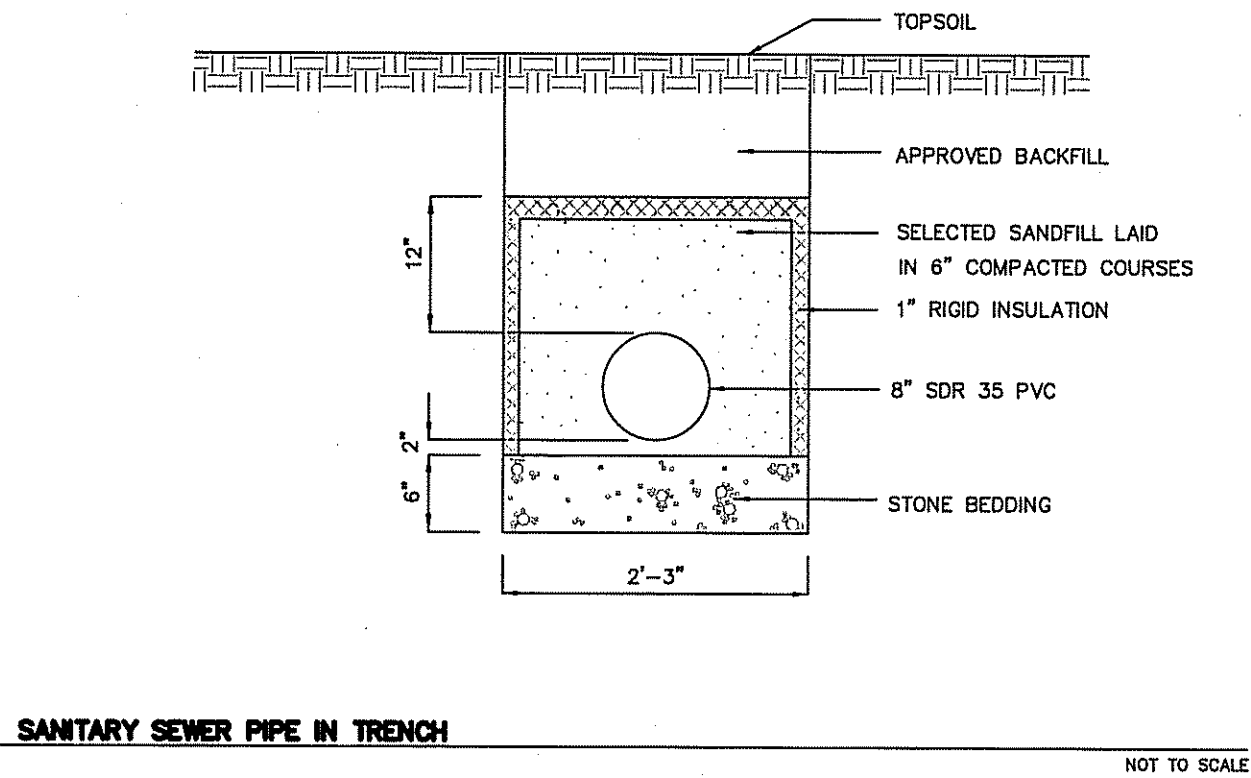
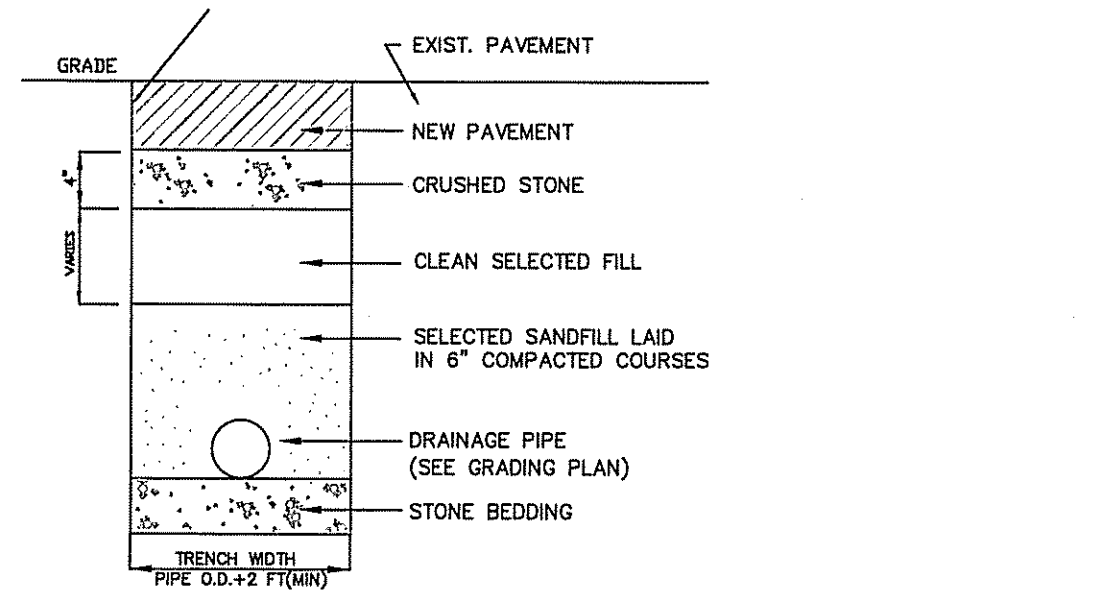
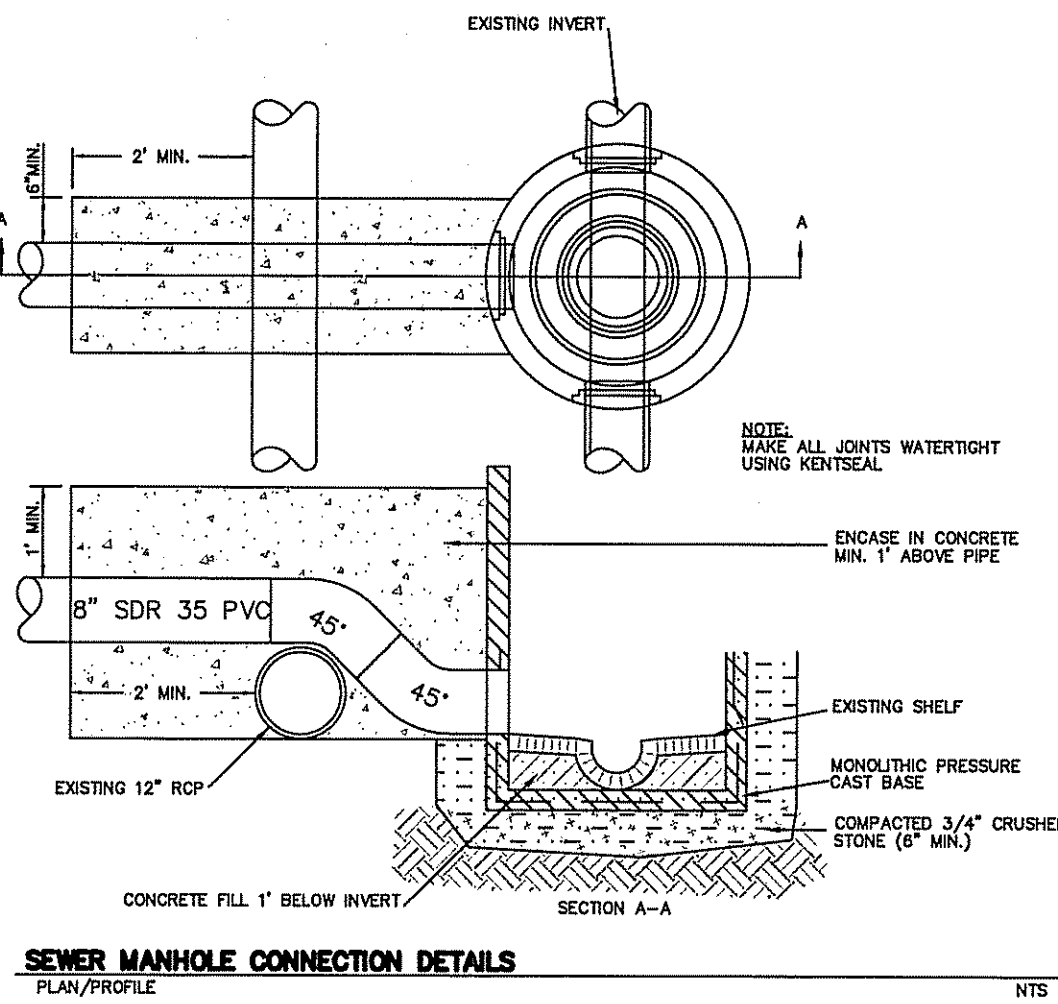
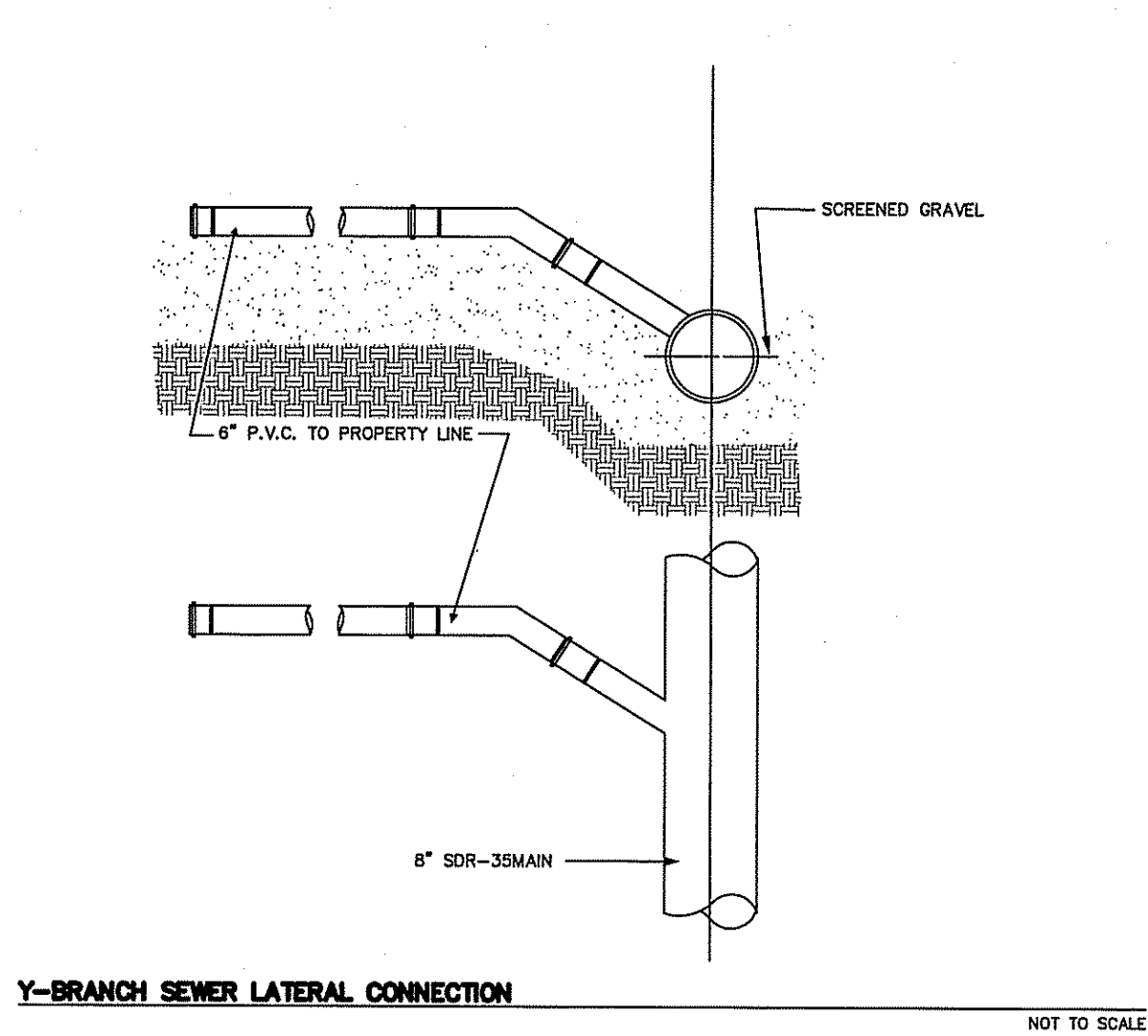
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MA. LIC. NO.: 40595	MA. LIC. NO.: 47597	PROPOSED SEWER LINE PLAN
CT. LIC. NO.: 12950		SITE ADDRESS:
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NH. LIC. NO.: 8366		STURBRIDGE, MA 01566
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		DATE: 5.18.18
		SCALE: 1" = 40'
		REV. #: 0
		PROJECT #: 16M-181
		DWG. NO.: C-8

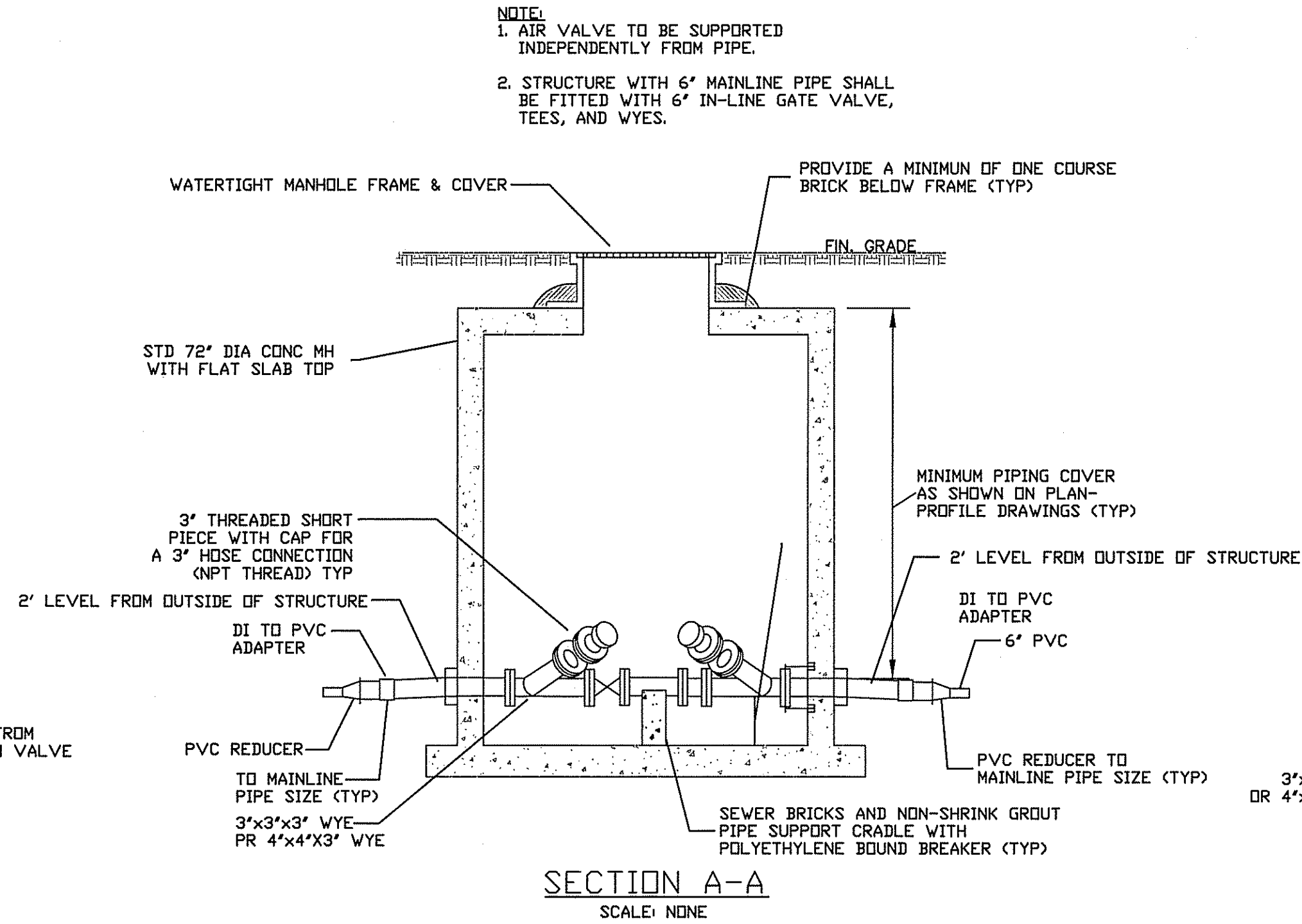
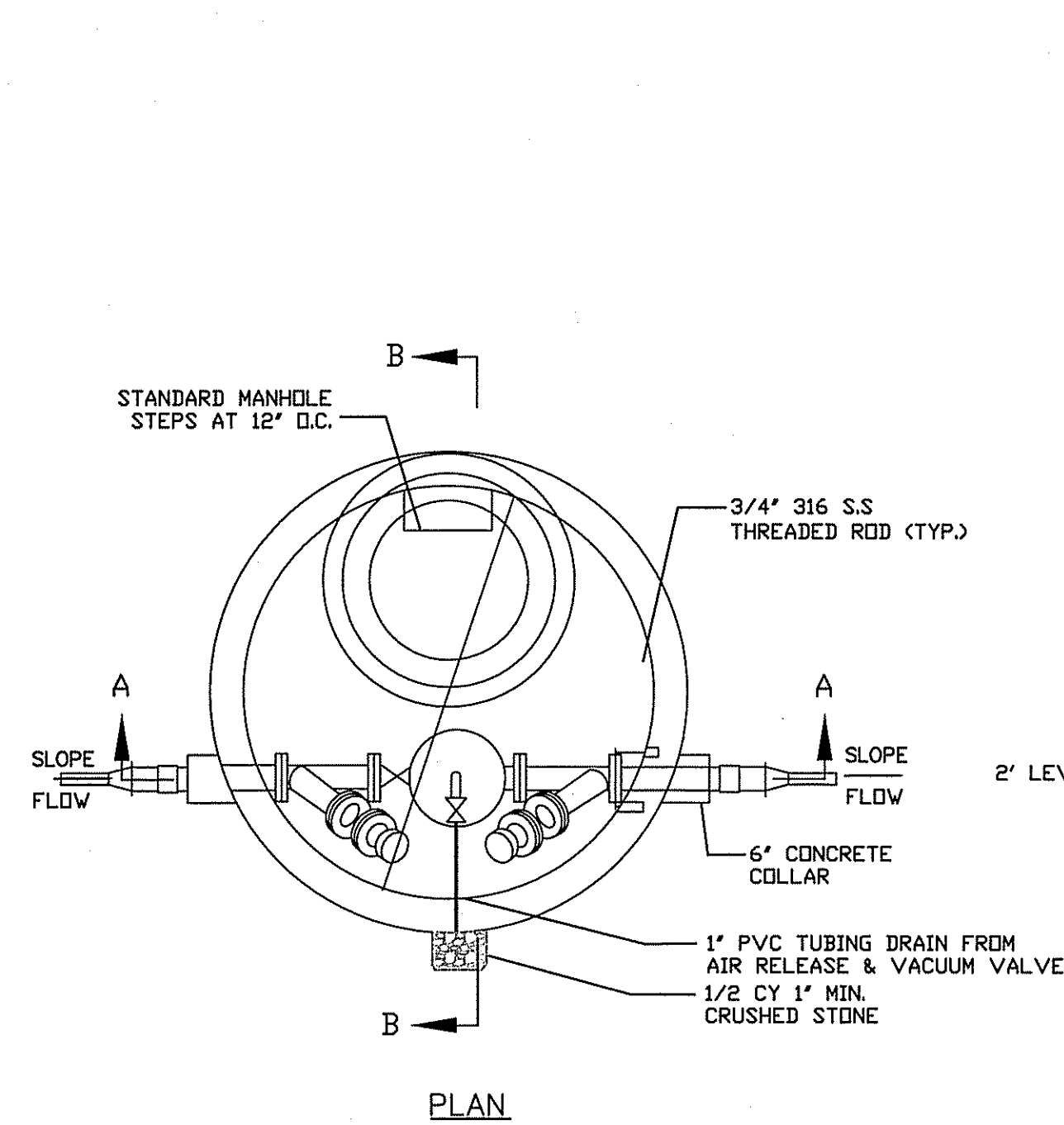
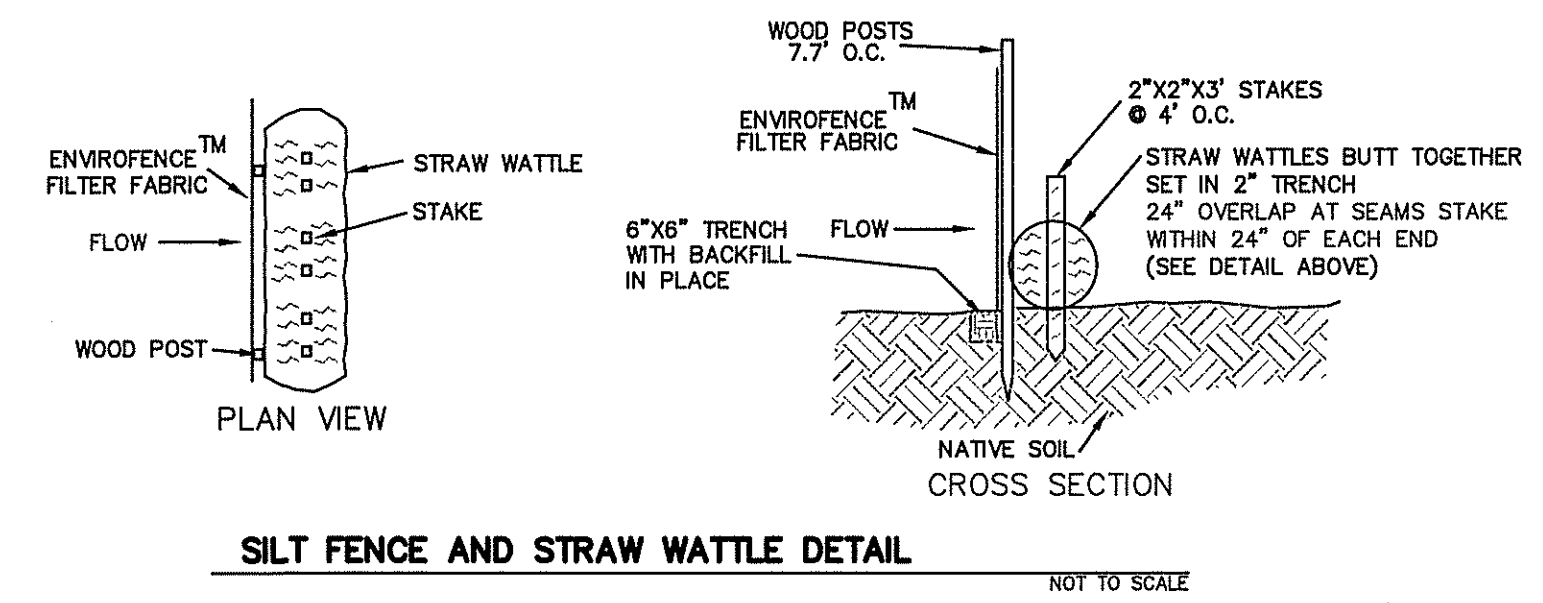
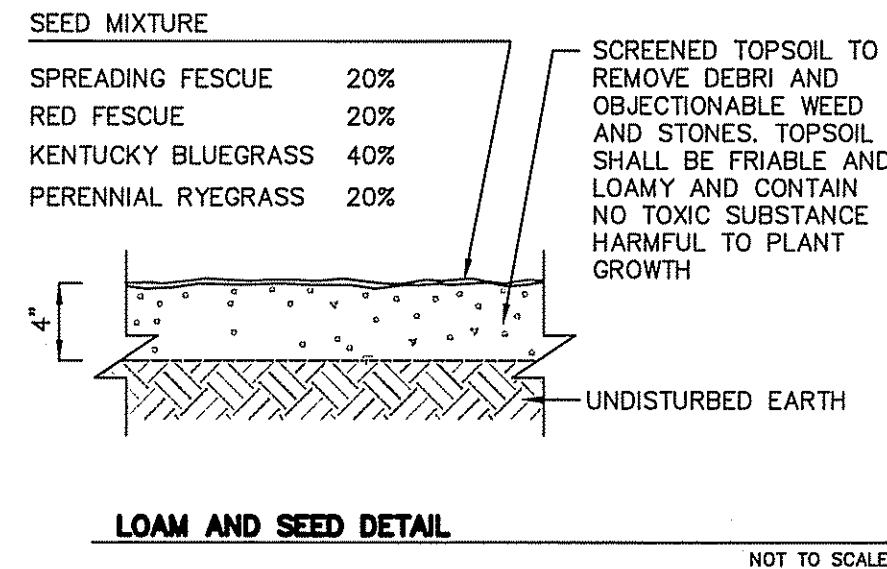
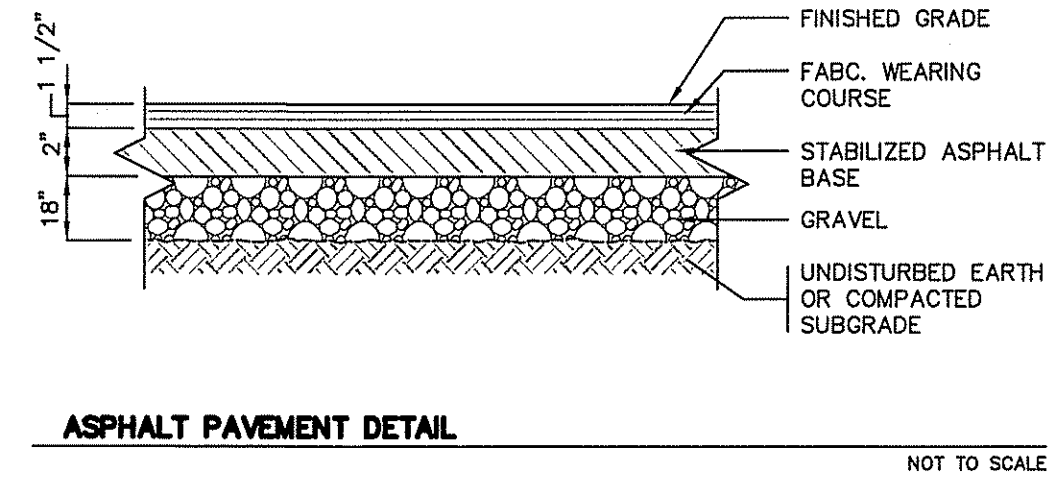
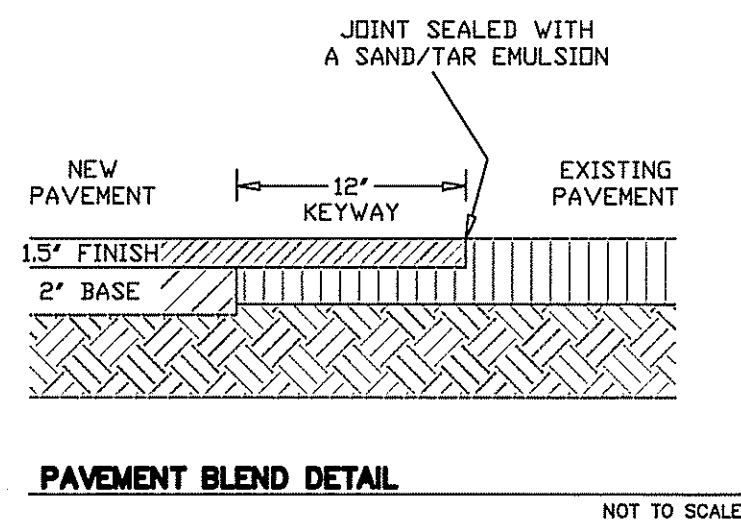
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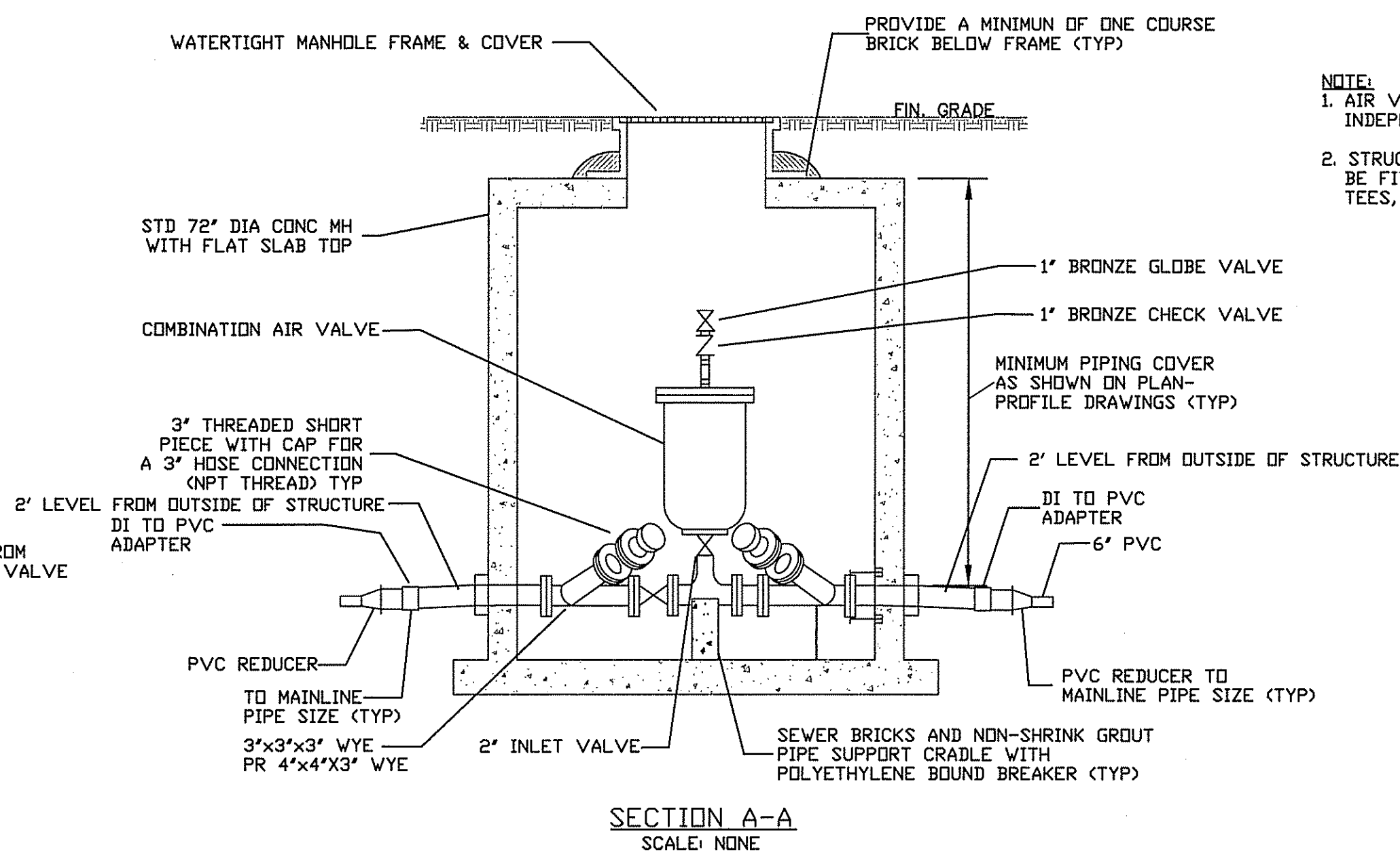
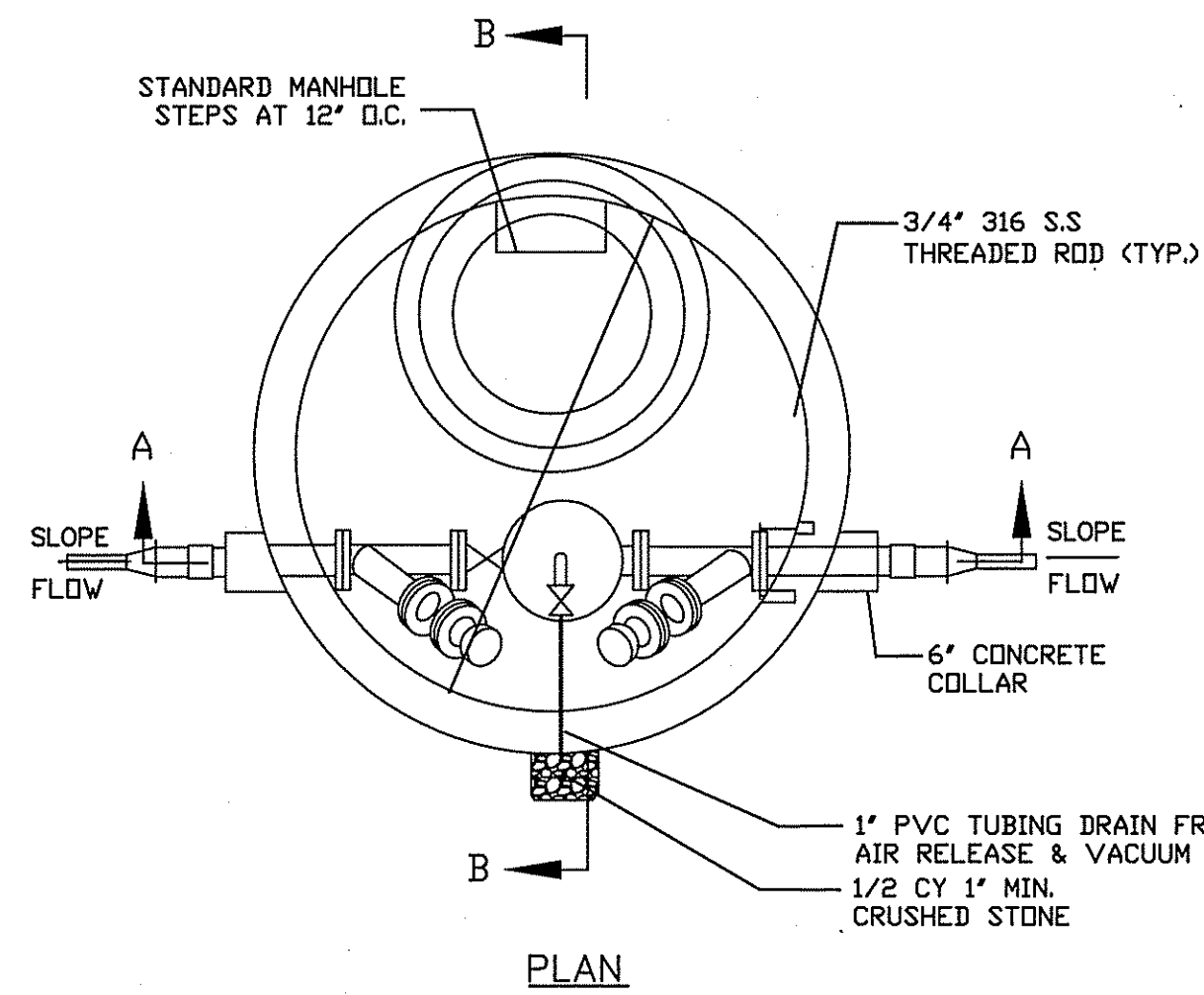
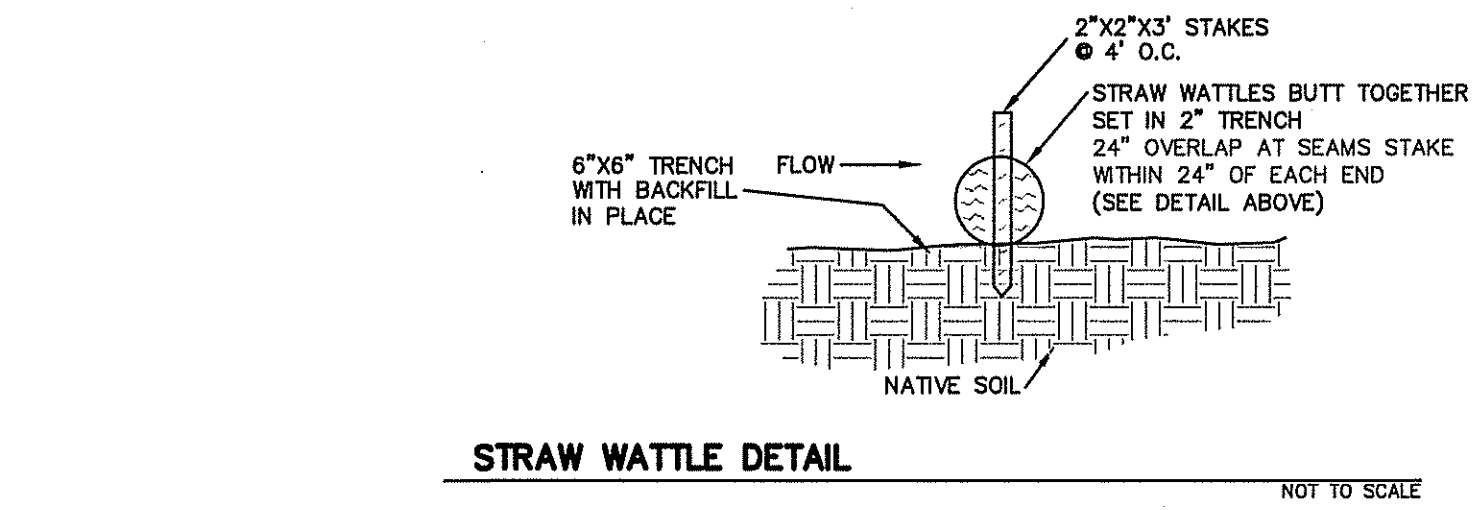
NORTH		GRAPHIC SCALE (IN FEET) 1" = 40'		STAMP		DRAWN BY: ARB CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12950 RI. LIC. NO.: 6694 NH. LIC. NO.: 9368		CHECKED BY: FB FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597		CLIENT: PETER F. O'CONNELL 500 VICTORY ROAD QUINCY, MA PROPOSED SEWER LINE PLAN SITE ADDRESS: DOUTY AND STALLION HILL ROAD STURBRIDGE, MA 01566	
NO. DATE		REVISION		BY		BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 CT. LIC. NO.: 16970		PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736		DATE: 5.18.18 SCALE: 1" = 40' REV: 0 PROJECT #: 16M-181 DWG. NO.: C-9	



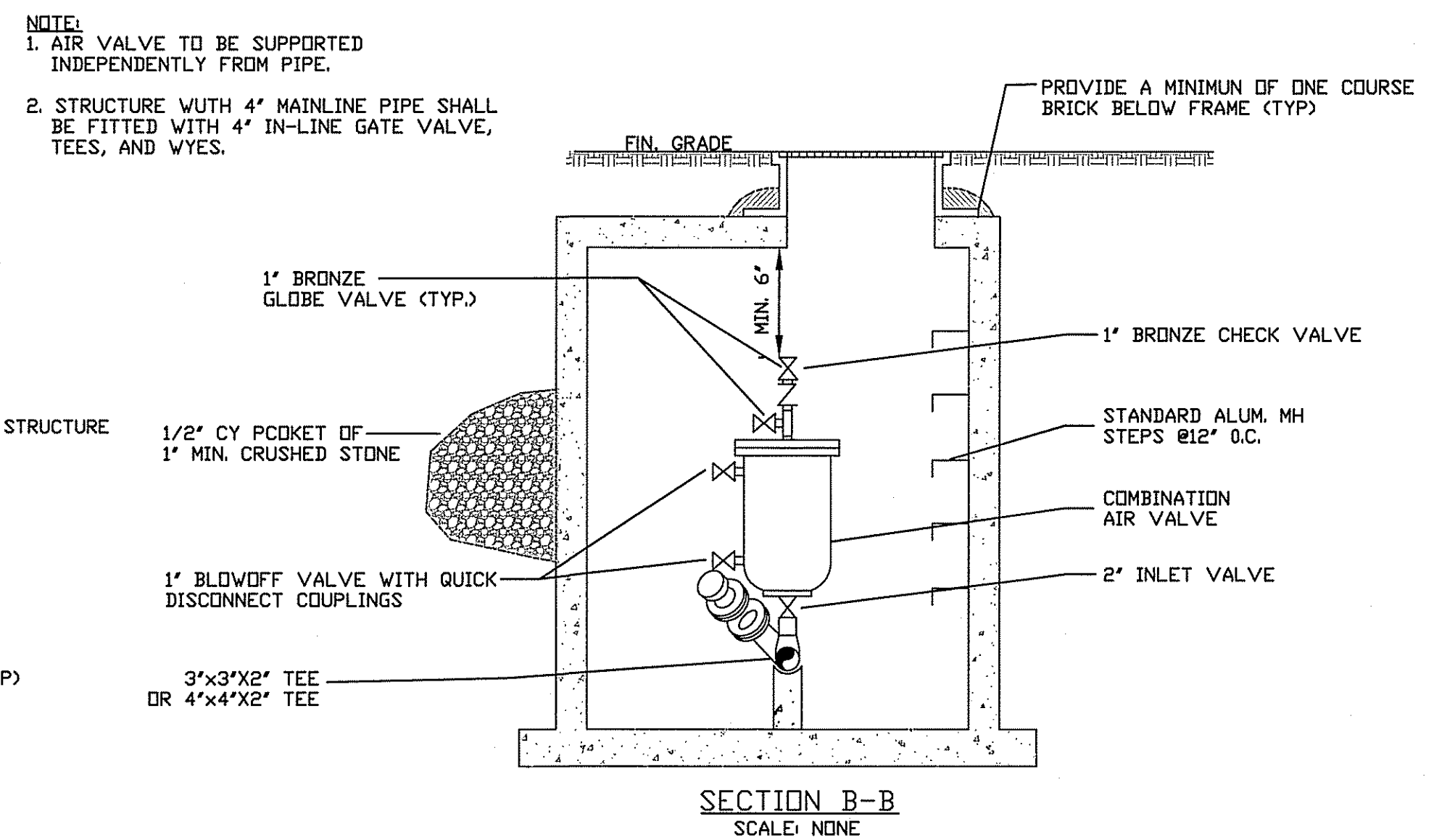
NORTH	GRAPHIC SCALE 40 0 20 40 80 160 (IN FEET) 1" = 40'	NO. DATE REVISION BY	STAMP	DRAWN BY: ARB CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12950 RI. LIC. NO.: 6694 NH. LIC. NO.: 9368	CHECKED BY: FB FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597	CLIENT: PETER F. O'CONNELL 500 VICTORY ROAD QUINCY, MA
				BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 CT. LIC. NO.: 16970	PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736	DETAILS SHEET SITE ADDRESS: DOUTY AND STALLION HILL ROAD STURBRIDGE, MA 01566
39 ELM STREET SOUTHBRIDGE, MA 01550 P 508.765.0195 F 508.765.0193				B BERTIN ENGINEERING www.bertinengineering.com		DATE: 5.18.18 SCALE: REV #: 0 PROJECT #: 16M-181 DWG. NO.: C-10



FLUSHING AND CLEANOUT MANHOLE DETAIL
NOT TO SCALE

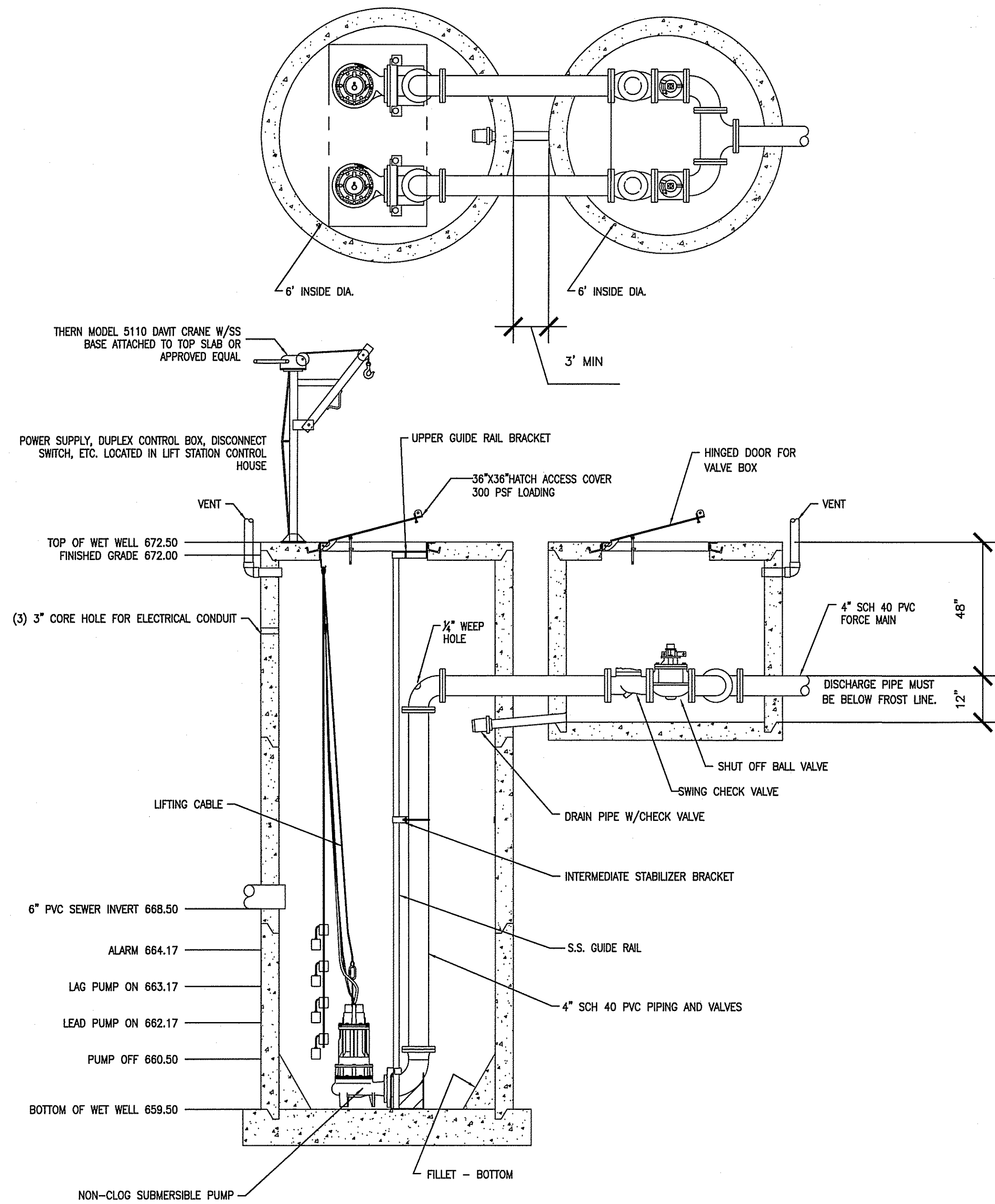


AIR RELEASE AND CLEANOUT MANHOLE DETAIL
NOT TO SCALE



- NOTE:**
1. AIR VALVE TO BE SUPPORTED INDEPENDENTLY FROM PIPE.
 2. STRUCTURE WITH 4\"/>

NORTH	GRAPHIC SCALE (IN FEET) 1" = 40'	NO. DATE	REVISION	BY	STAMP	DRAWN BY: ARB FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12950 R.I. LIC. NO.: 6694 N.H. LIC. NO.: 9368	CHECKED BY: FB FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597	CLIENT: PETER F. O'CONNELL 500 VICTORY ROAD QUINCY, MA
					BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 CT. LIC. NO.: 16970	PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736	DETAILS SHEET SITE ADDRESS: DOUTY AND STALLION HILL ROAD STURBRIDGE, MA 01566	
						39 ELM STREET SOUTHBURIDGE, MA 01550 P 508.765.0195 F 508.765.0193	B BERTIN ENGINEERING www.bertinengineering.com	DATE: 5.18.18 SCALE: REV #: 0 PROJECT #: 16M-181 DWG. NO.: C-11



PUMP STATION DESIGN DATA

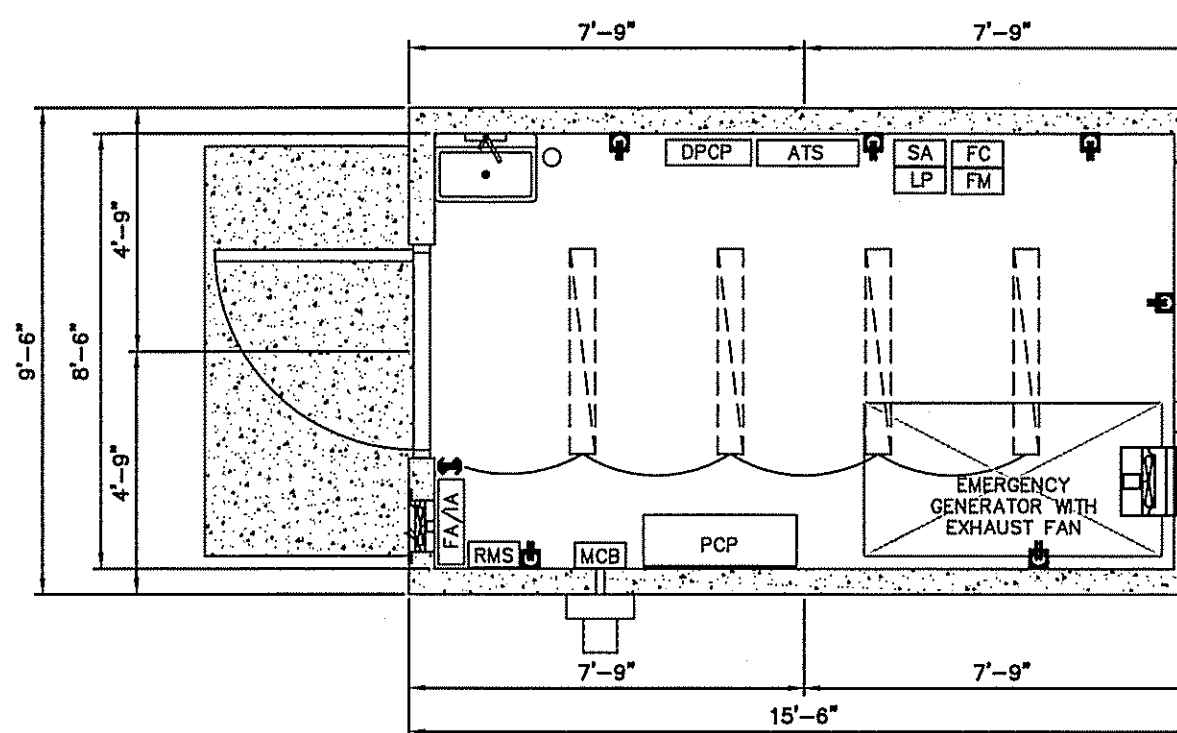
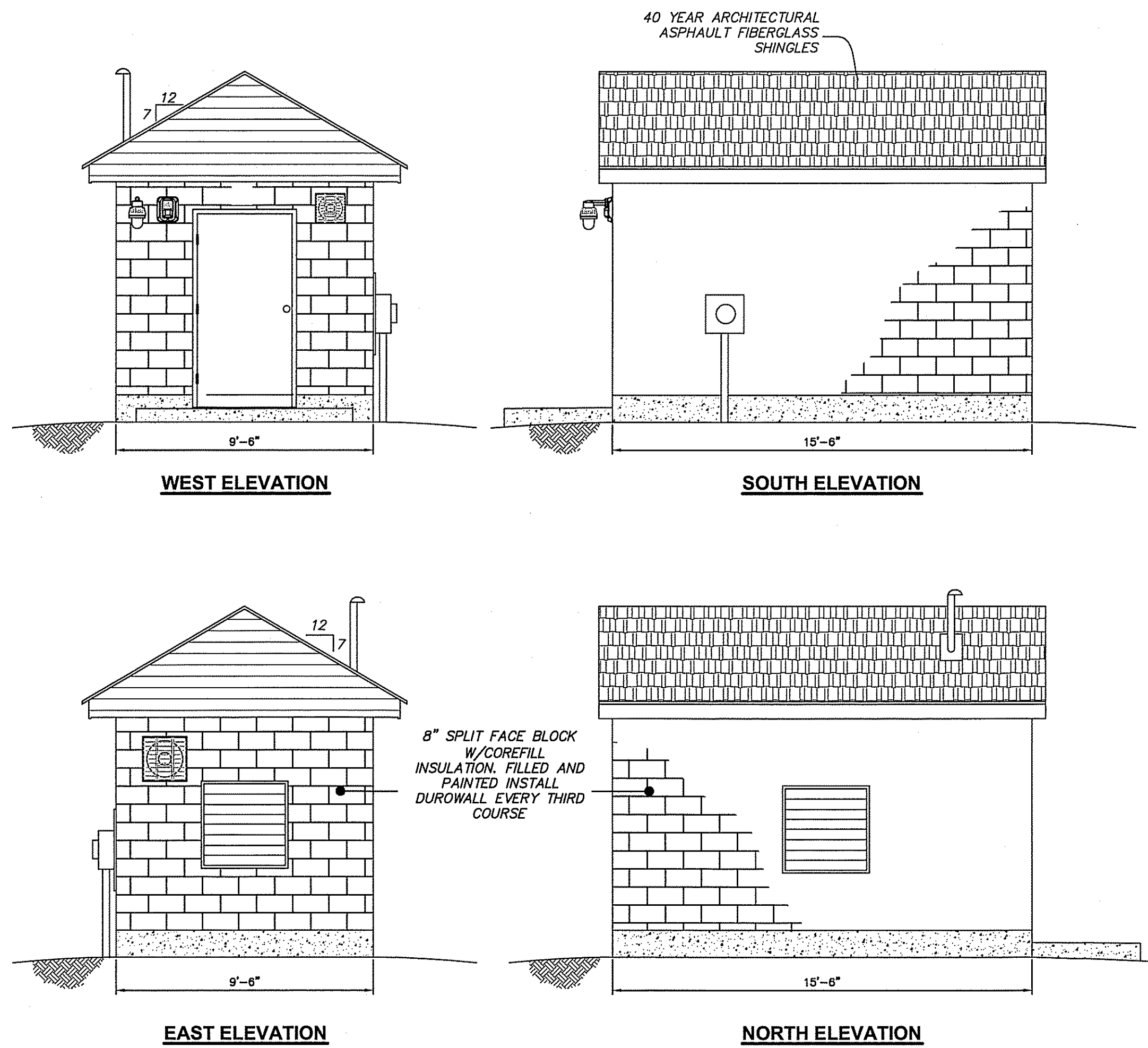
AVG. DAILY SEWAGE FLOW: 45 HOUSES @ 440 G.P.D.	= 19,800 G.P.D.
AVG. FLOW 19,800 G.P.D. /1,440	= 13.8 G.P.M.
DESIGN PUMPING RATE PER PUMP	= 125 G.P.M.
STATIC HEAD	= 136.5 FEET
FORCE MAIN SIZE: 4"	= 2,530 FEET
DYNAMIC HEAD LOSS @ 125 G.P.M. (PUMPING RATE)	= 24 FEET
TOTAL DYNAMIC HEAD (T.D.H.)	= 161 FEET

PUMP DATA

TWO 23 HP (MIN.) PUMPS
CAPACITY (OPERATING POINT) 125 G.P.M. @ 160 T.D.H.
PUMP MODEL: FLYGT NP 3153 SH 3~ 275 23 HP NON CLOG PUMP OR EQUAL
DISCHARGE SIZE: 4".
VOLTAGE: 230.

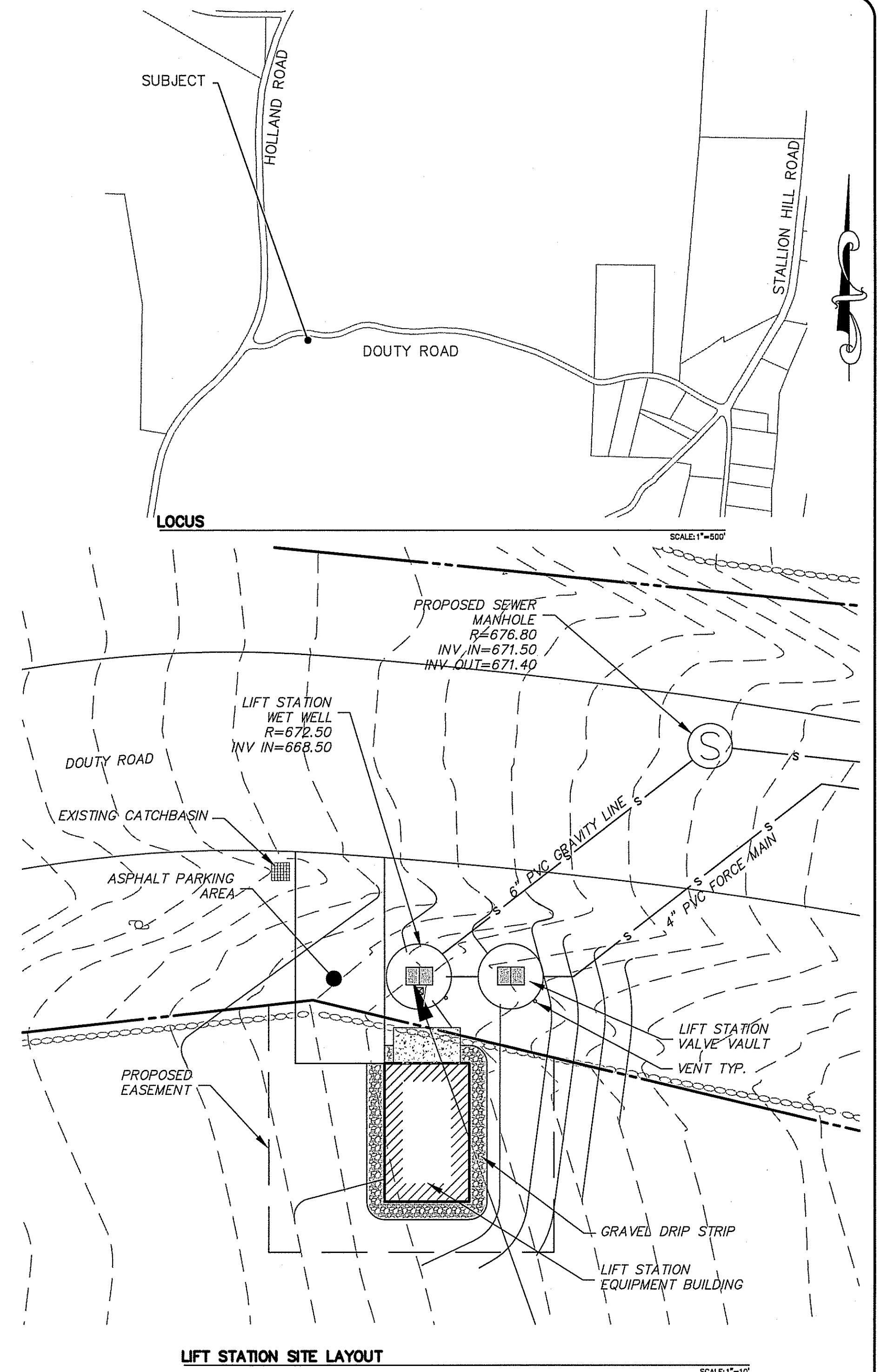
WET WELL/ VALVE VAULT DETAIL

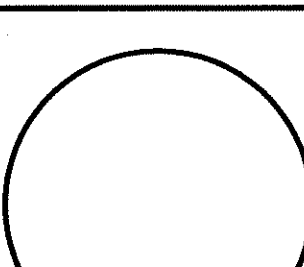
NOT TO SCALE



EQUIPMENT BUILDING DETAIL

NOT TO SCALE



NORTH 					STAMP  5/8/18	DRAWN BY:	CHECKED BY:	CLIENT: PETER F. O'CONNELL 500 VICTORY ROAD QUINCY, MA							
						PE	FB	DOUTY ROAD SEWER PUMP STATION							
						CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12950 RI. LIC. NO.: 6694 NH. LIC. NO.: 9368	FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597	SITE ADDRESS: DOUTY AND STALLION HILL ROAD STURBRIDGE, MA 01566							
						BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 CT. LIC. NO.: 16970	PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736	 BERTIN ENGINEERING www.bertinengineering.com							
								DATE:	5.18.18	SCALE:	AS NOTED	REV #:	0	PROJECT #:	16M-181
NO.		DATE		REVISION		BY									