

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
573	D3 SANITARY SEWER 2014-1	DEKALB	11	1
		ILLINOIS	CONTRACT NO. 66D23	

1. COVER SHEET
2. GENERAL NOTES
- 3-4. SUMMARY OF QUANTITIES
5. SITE PLAN - FOR SANITARY SEWER CONSTRUCTION
6. SANITARY SEWER PROFILE
- 7-8. MANHOLE DETAILS
9. SITE PLAN - FOR WATER SERVICE CONSTRUCTION
- 10-11. MISCELLANEOUS DETAILS

**STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
602401-03	MANHOLE, TYPE A
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-03	TRAFFIC CONTROL DEVICES

**DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

**PROPOSED  
HIGHWAY PLANS**

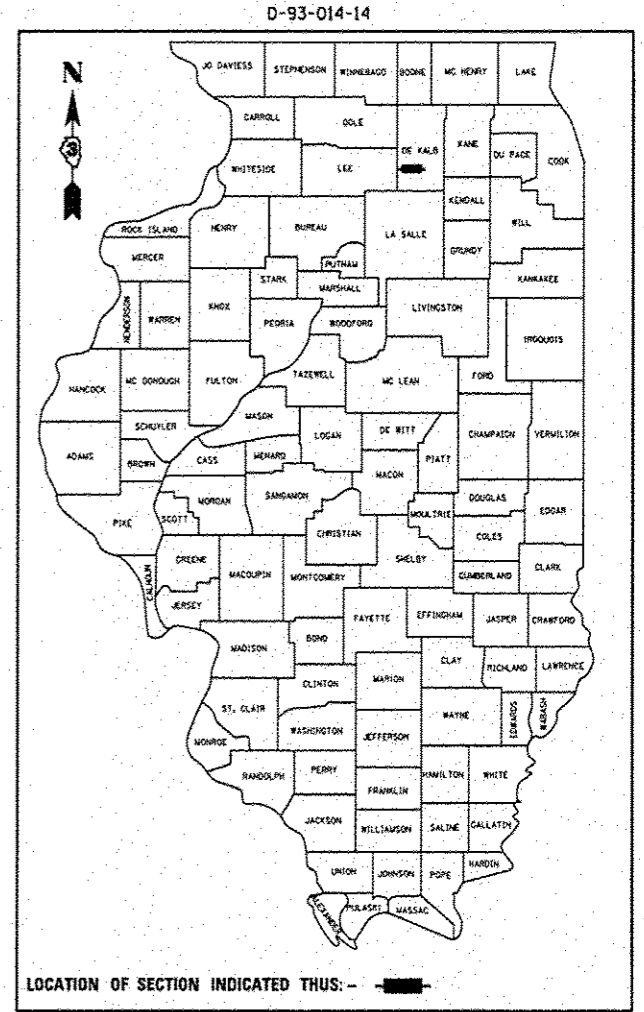
**F.A.P. ROUTE 573 (US 30)  
SECTION D3 SANITARY SEWER 2014-1**

**FURNISHING AND INSTALLING A  
SANITARY SEWER SERVICE LINE AT THE DISTRICTS  
WATERMAN MAINTENANCE FACILITY  
DEKALB COUNTY**

C-93-011-14

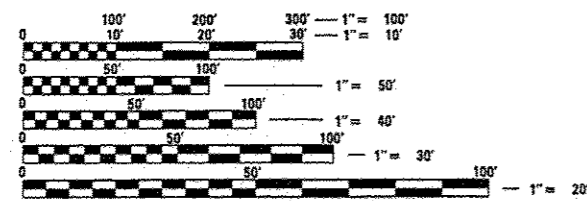
PROJECT LOCATION

WATERMAN MAINTENANCE FACILITY  
0.23 MILES WEST OF IL ROUTE 23



RURAL

MINOR ARTERIAL	
FAP 573 (US 30)	
2011	
ADT	4700
P.V.	83.73%
S.U.	4.57%
M.U.	11.70%

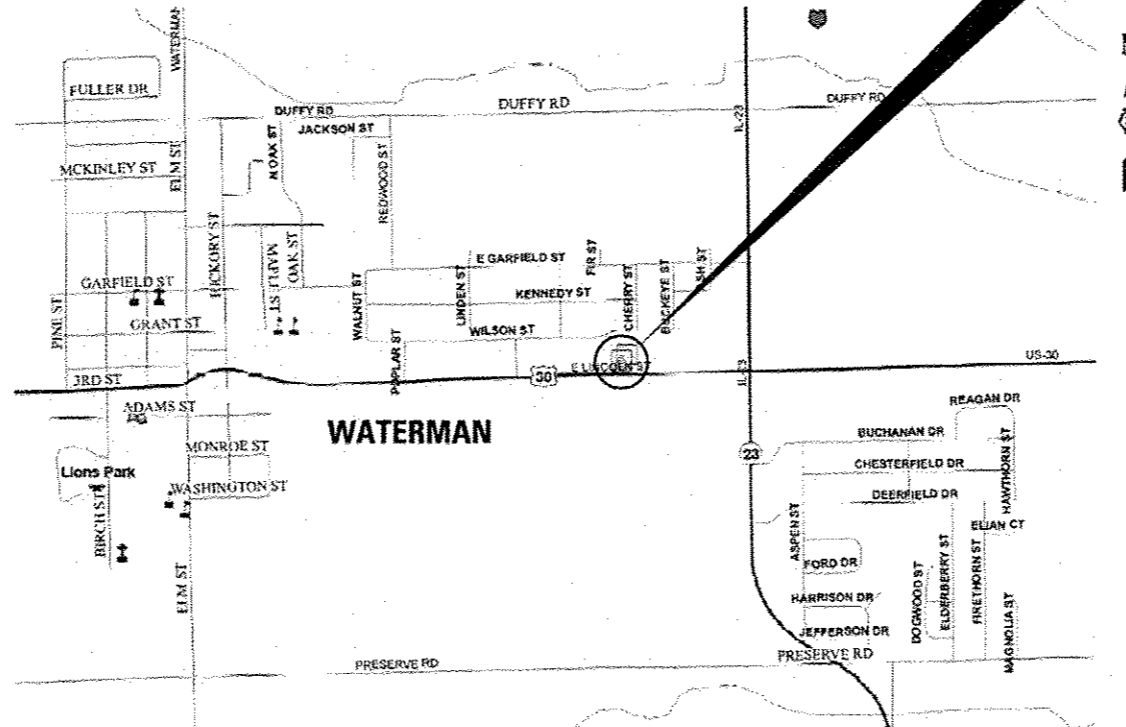


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: JOE KANNEL P.E.  
UNIT CHIEF: RON WOODSHANK  
TOWNSHIP: CLINTON

CONTRACT NO. 66D23



LOCATION MAP  
NOT TO SCALE  
POINT LOCATION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 2-7-2014  
Paul Locke, P.E.  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21, 2014  
John D. Baranzelli, P.E.  
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 21, 2014  
Omer Coman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

GENERAL NOTES

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF "FURNISHED EXCAVATION".

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
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THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

COMMITMENTS

DATE: 2-4-14

PREPARED BY: [Signature]  
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: [Signature]  
DISTRICT CONSTRUCTION ENGINEER

[Signature]  
DISTRICT MATERIALS ENGINEER

[Signature]  
DISTRICT OPERATIONS ENGINEER

FILE NAME *	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\woodshankr1\09347546	0366023-ehs-details.dgn	DRAWN - RON WOODSHANK	REVISED -			573	D3 SANITARY SEWER 2014-1	DEKALB	11	2	
*MODELNAME*	PLOT SCALE * 1/8"=1'-0"	CHECKED - YOGESH PATEL	REVISED -			CONTRACT NO. 66023					
	PLOT DATE * 1/17/2014	DATE - 9/13/2013	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET 1 OF 1 SHEETS		STA.	TO STA.		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				CDB FUNDS 100% STATE UTILITY	0043 RURAL
20400800	FURNISHED EXCAVATION	CU YD	8	8	
20800150	TRENCH BACKFILL	CU YD	145	145	
21301060	EXPLORATION TRENCH 60" DEPTH	FOOT	200	200	
25000110	SEEDING, CLASS 1A	ACRE	0.5	0.5	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
25100630	EROSION CONTROL BLANKET	SQ YD	1200	1200	
28000400	PERIMETER EROSION BARRIER	FOOT	142	142	
56200200	WATER SERVICE LINE 3/4"	FOOT	60	60	
56200700	WATER SERVICE LINE 2"	FOOT	264	264	
56201120	WATER SERVICE LINE 4"	FOOT	60	60	
67100100	MOBILIZATION	L SUM	1	1	
67201000	SEALING ABANDONED WATER WELLS	EACH	1	1	

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT SCALE = 1/8" = 1' / in.	CHECKED :	REVISED :								
MODEL NAME :	PLOT DATE :	DATE :	REVISED :	(ILLINOIS) FED. AID PROJECT							
	1/17/2014	9/13/2013	-								

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				CDB FUNDS 100% STATE UTILITY 0043 RURAL
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
X0324582	PLUMBING EQUIPMENT, ACCESSORIES AND RELATED SYSTEMS	L SUM	1	1
X0325108	BACKFLOW PREVENTER (RPZ), 2 INCH	EACH	1	1
X0325323	MANHOLES, TYPE A, SANITARY, 4' - DIAMETER, TYPE 1 FRAME, CLOSE	EACH	2	2
X0326828	WATER METER ASSEMBLY, 2"	EACH	1	1
X0488100	REMOVING EXISTING SEPTIC TANK	EACH	1	1
X5610009	PIPE INSULATION SYSTEM	FOOT	15	15
Z0041908	POLYETHYLENE ENCASEMENT, 8"	FOOT	40	40
Z0056900	SANITARY SEWER 8"	FOOT	340	340

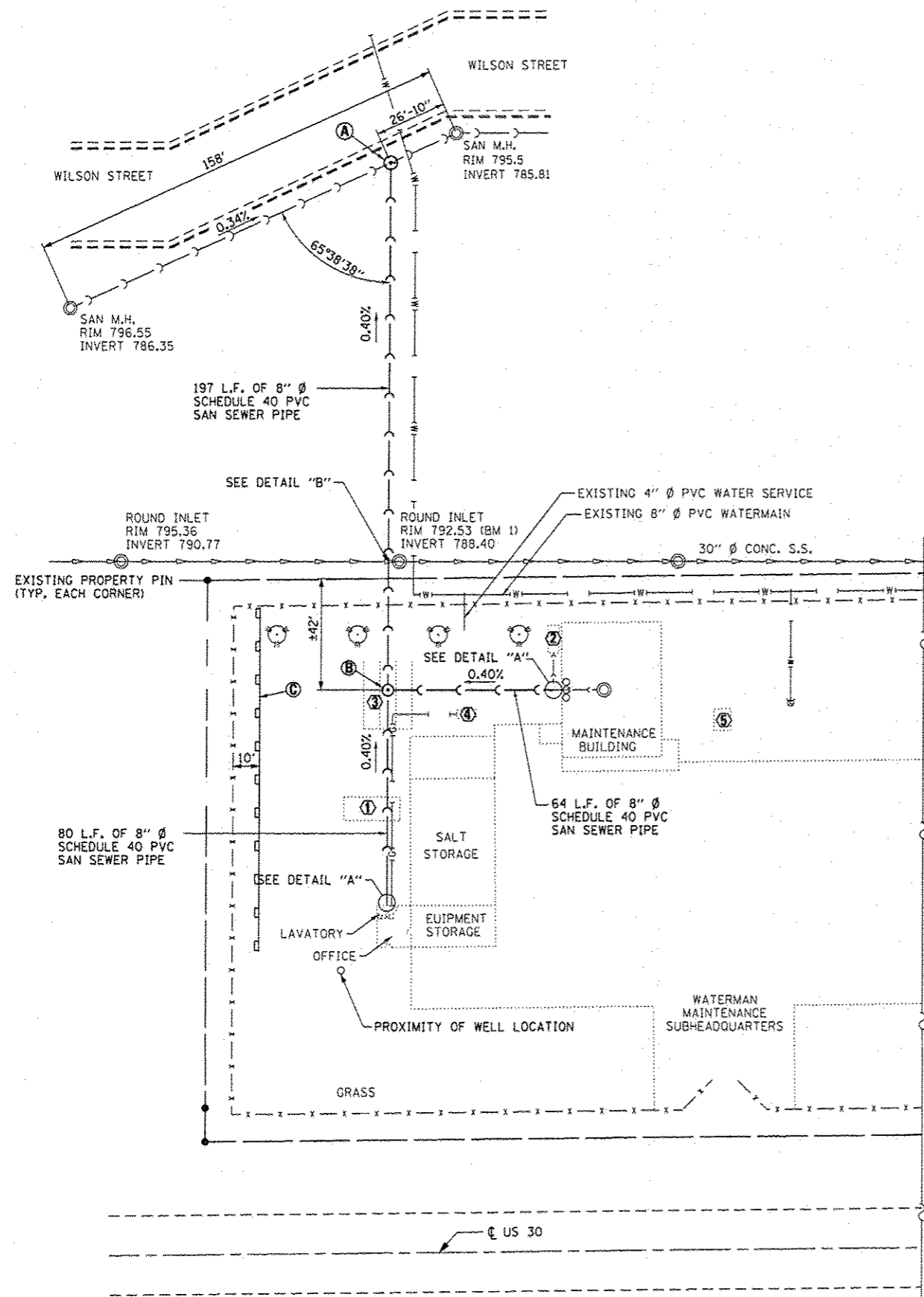
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	PLOT SCALE * 100.0000' / in.	CHECKED - YOGESH PATEL	REVISED -
MODEL NAME *	PLOT DATE * 1/17/2014	DATE - 9/13/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

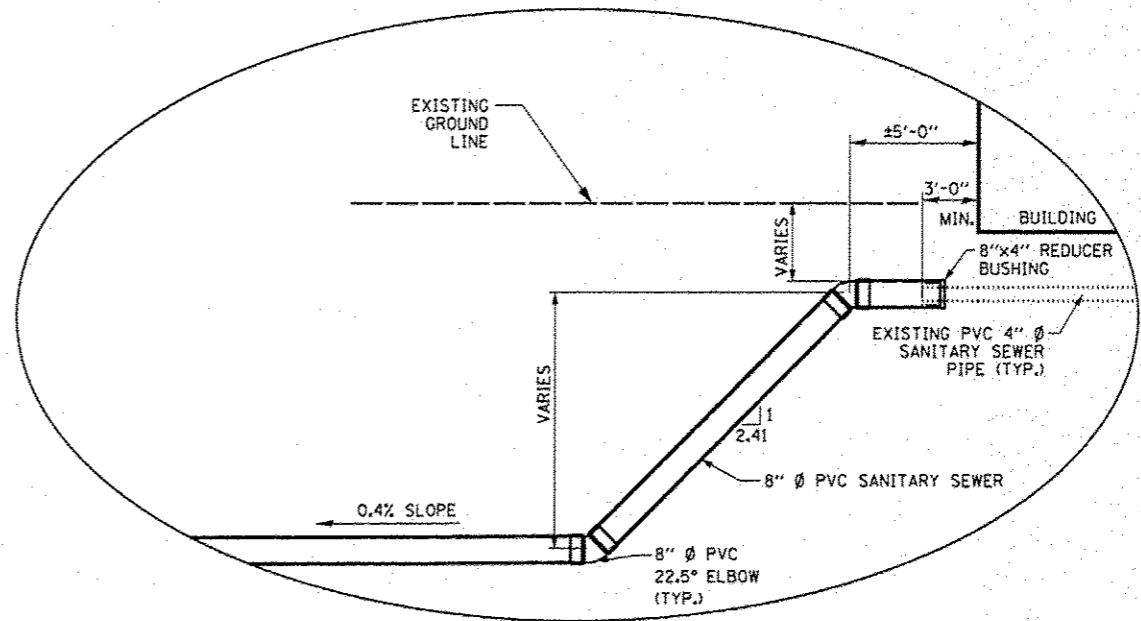
**SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
573	D3 SANITARY SEWER 2014-1	DEKALB	11	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66023	



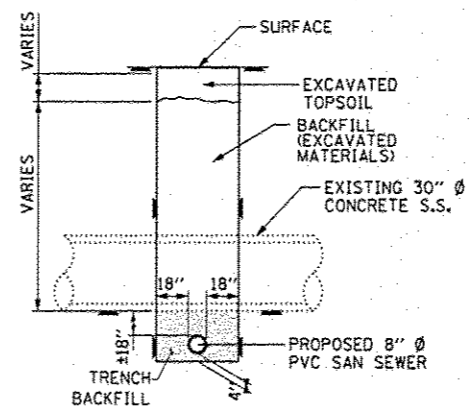
**HALF SITE PLAN**



**DETAIL "A"**  
**SANITARY SEWER CONNECTION AT BUILDINGS**

- A** PROPOSED 4' Ø SAN M.H.  
M.H. RIM ELEV. 795.89  
M.H. TOP MASONRY ELEV. 795.14  
M.H. INVERT ELEV. 785.65  
8" Ø PVC SAN SEWER PIPE (SOUTH INLET) INVERT ELEV. 785.98  
12" Ø PVC SAN SEWER PIPE (SOUTHWEST INLET) INVERT ELEV. 785.92  
12" Ø SAN SEWER PIPE (NORTHEAST OUTLET) INVERT ELEV. 785.90
- B** PROPOSED 4' Ø SAN M.H.  
M.H. RIM ELEV. 795.24  
M.H. TOP MASONRY ELEV. 794.49  
M.H. INVERT ELEV. 786.52  
8" Ø PVC SAN SEWER PIPE (EAST INLET) INVERT ELEV. 786.85  
8" Ø PVC SAN SEWER PIPE (SOUTH INLET) INVERT ELEV. 786.79  
8" Ø PVC SAN SEWER PIPE (NORTH OUTLET) INVERT ELEV. 786.77
- C** TEMPORARY EROSION CONTROL BARRIER (SILT FENCE)

- ① REMOVE AND DISPOSE OF EXISTING UNDER GROUND SEPTIC TANK
- ② EXISTING SANITARY DRAINAGE TANK TO REMAIN IN PLACE. EXISTING PIPING SHALL BE CUT, PLUGGED AND ABANDONED.
- ③ EXISTING LEACH (DRAINAGE) FIELD: EXPLORATORY TRENCH SHALL BE USED TO LOCATE LIMITS OF THE EXISTING LEACH FIELD PIPING SYSTEM. EXISTING PIPING SYSTEM SHALL BE PLUGGED WHERE APPLICABLE AND ABANDONED.
- EXPLORATORY TRENCH SHALL ALSO BE USED TO LOCATE EXISTING SEWER LINES ADJACENT TO BUILDINGS.
- WHEN EXISTING LEACH FIELD PIPING IS ENCOUNTERED DURING TRENCHING/EXCAVATING OPERATIONS, THE PIPING SHALL BE CUT AND PLUGGED WHERE APPLICABLE AT THE SIDE WALLS OF THE TRENCH/EXCAVATION AND REMOVED.
- ④ EXISTING ABOVE GROUND PROPANE TANK
- ⑤ EXISTING BELOW GROUND DIESEL TANK



**DETAIL "B"**  
EXISTING 30" Ø CONC. S.S. INVERT 788.49  
PROPOSED 8" Ø PVC SAN SEWER INVERT 786.52

**GENERAL NOTES**  
ALL DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO ORDERING OF MATERIALS.

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		CHECKED: YOGESH PATEL	REVISED:
		DATE: 9/13/2013	REVISED:

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

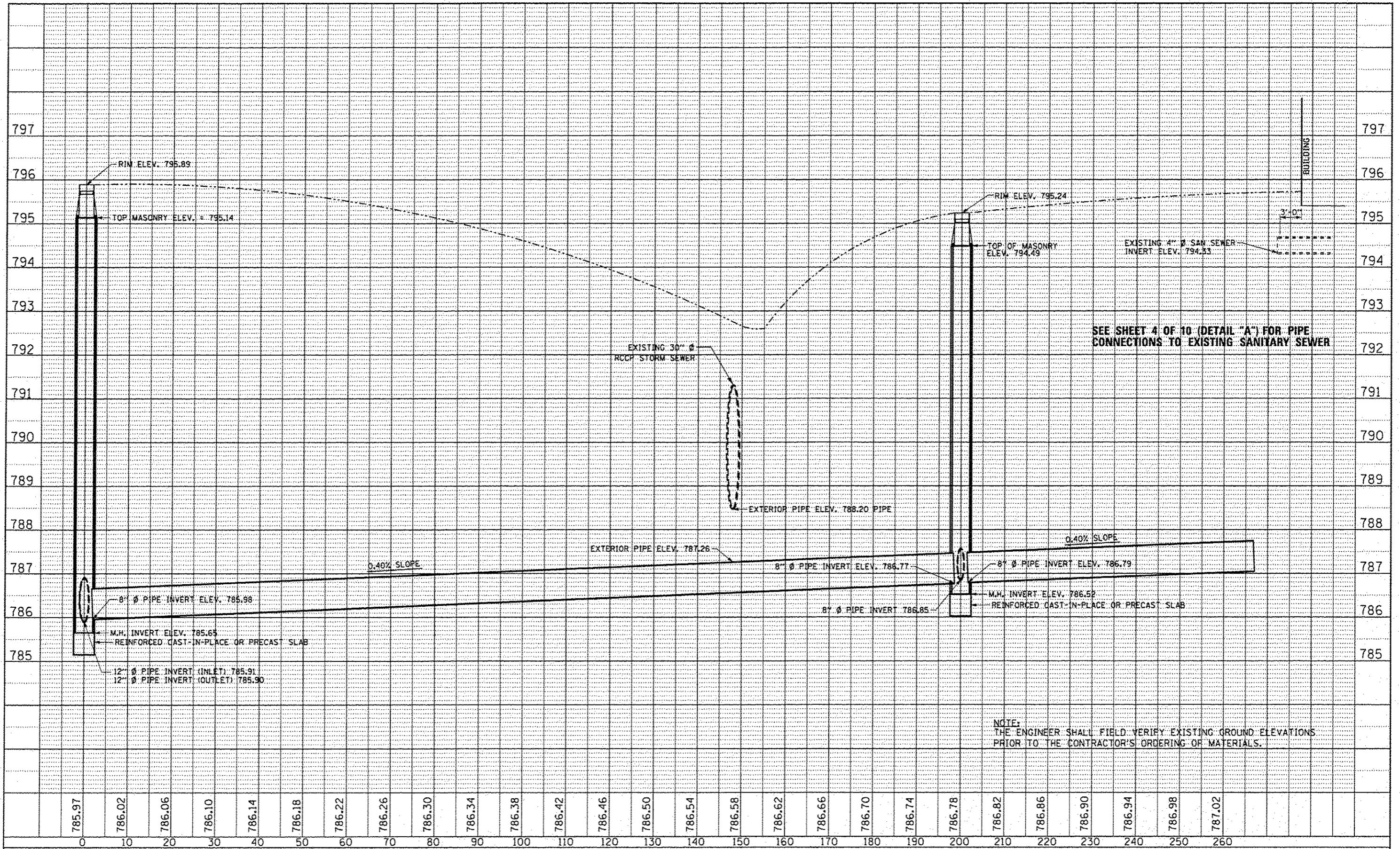
**SITE PLAN**  
**FOR SANITARY SEWER CONSTRUCTION**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 573	SECTION 03 SANITARY SEWER 2014-1	COUNTY DEKALB	TOTAL SHEETS 11	SHEET NO. 5
CONTRACT NO. 66D23				
ILLINOIS FED. AID PROJECT				

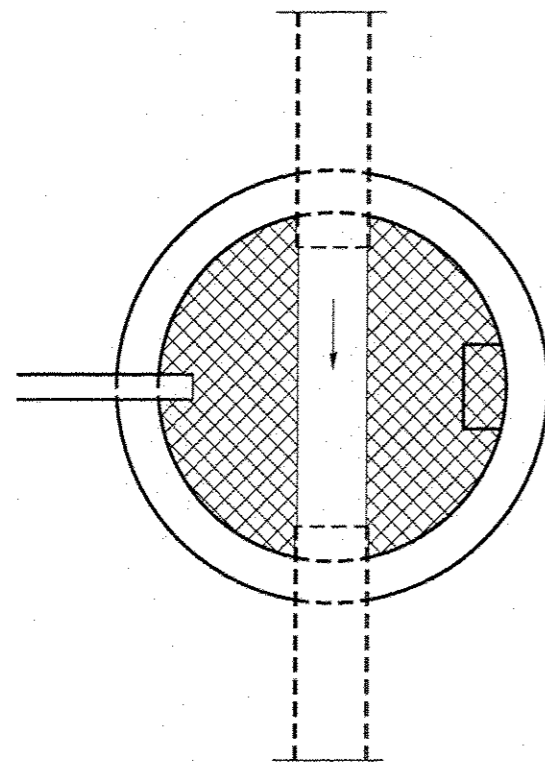
PLAN	DATE
BY	
REVISIONS	
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REVISIONS	
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BY	
REVISIONS	
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PROFILE	DATE
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REVISIONS	
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DATE	

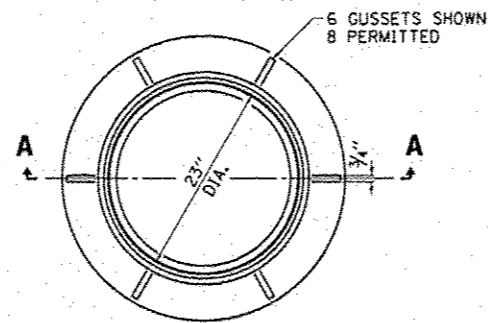


NOTE:  
THE ENGINEER SHALL FIELD VERIFY EXISTING GROUND ELEVATIONS  
PRIOR TO THE CONTRACTOR'S ORDERING OF MATERIALS.

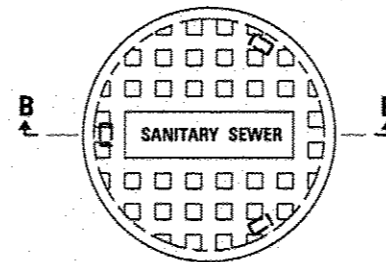
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#MODELNAME#	PLOT DATE = 1/17/2014	DATE = 9/13/2013	REVISED -			ILLINOIS FED. AID PROJECT					



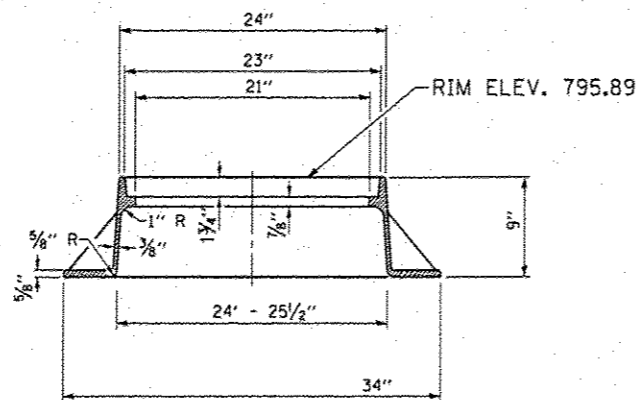
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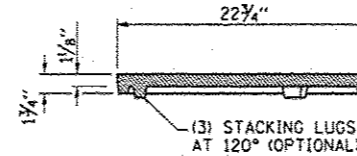
PLAN



PLAN



SECTION A-A



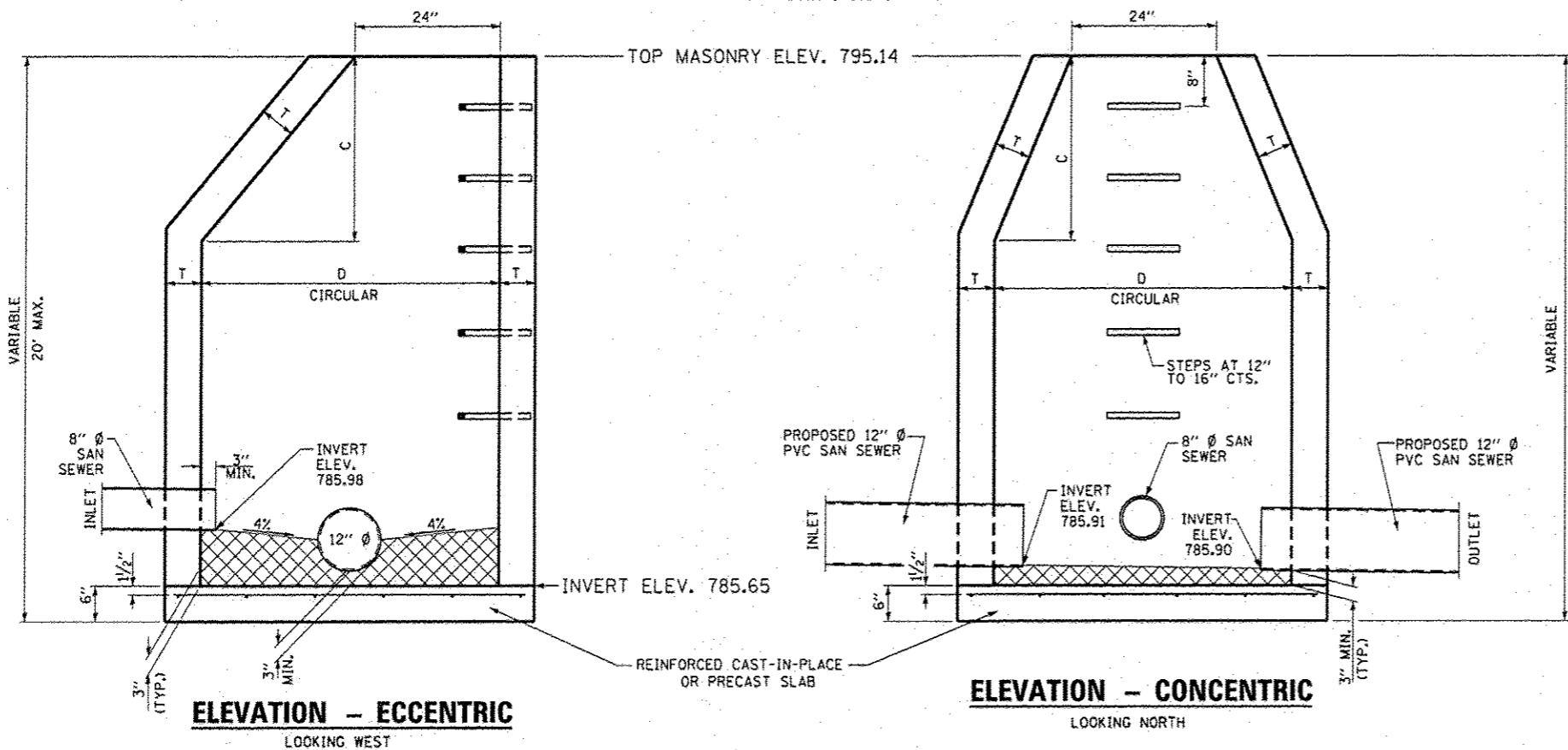
SECTION B-B

CAST CLOSED LID  
GRAY IRON LID



CONCRETE FILL

TYPE 1 FRAME  
GRAY IRON CASTING

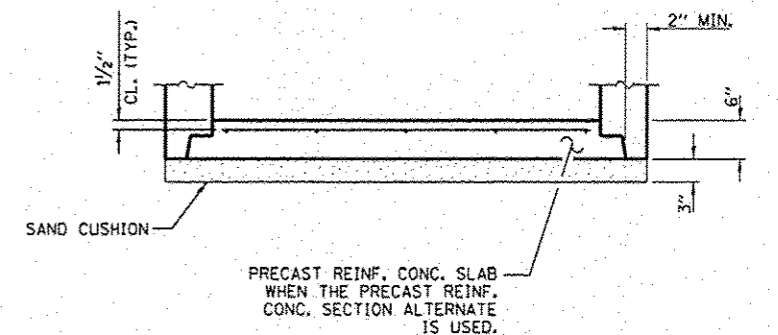
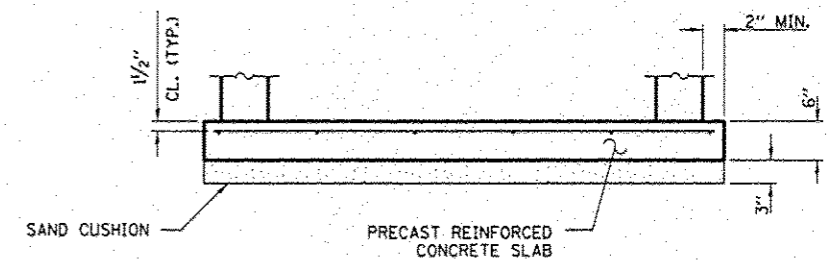


ELEVATION - ECCENTRIC  
LOOKING WEST

ELEVATION - CONCENTRIC  
LOOKING NORTH

ALTERNATE MATERIALS FOR WALLS	D	C*	T (MIN.)
CONCRETE MASONRY UNIT	4'-0" (1.2 M)	30 (750)	5 (125)
	5'-0" (1.5 M)	3'-9" (1.15 M)	5 (125)
BRICK MASONRY	4'-0" (1.2 M)	30 (750)	8 (200)
	5'-0" (1.5 M)	3'-9" (1.15 M)	8 (200)
PRECAST REINFORCED CONCRETE SECTION	4'-0" (1.2 M)	30 (750)	4 (100)
	5'-0" (1.5 M)	3'-9" (1.15 M)	5 (125)
CAST-IN-PLACE CONCRETE	4'-0" (1.2 M)	30 (750)	6 (150)
	5'-0" (1.5 M)	3'-9" (1.15 M)	6 (150)

\* FOR PRECAST REINFORCED CONCRETE SECTIONS, DIMENSION "C" MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6 (150).



ALTERNATE BOTTOM SLAB

GENERAL NOTES

BOTTOM SLABS SHALL BE REINFORCED WITH A MINIMUM OF 0.31 SQ. IN./FT. IN BOTH DIRECTIONS WITH A MAXIMUM SPACING OF 12".

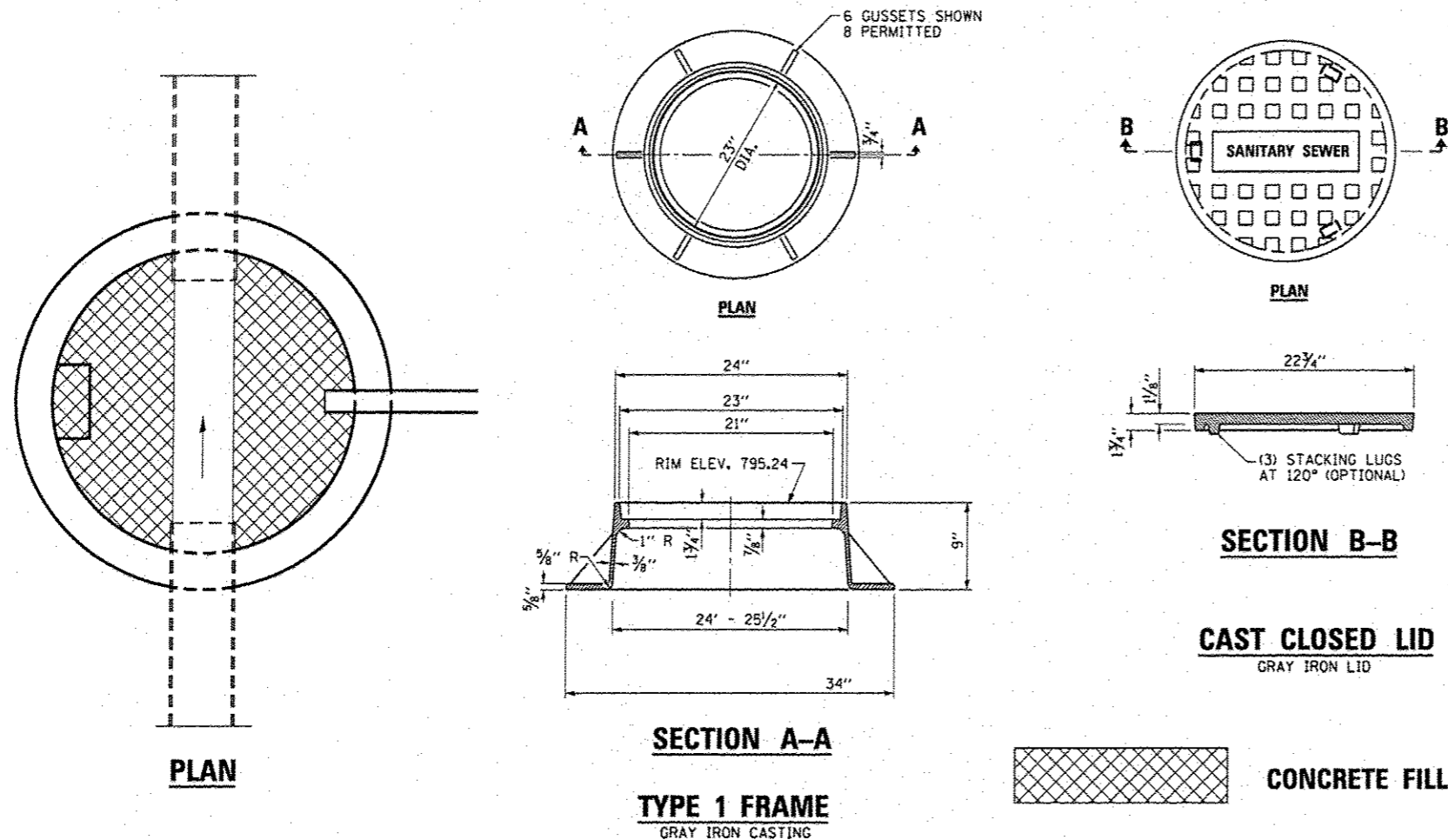
BOTTOM SLABS MAY BE CONNECTED TO THE RISER AS DETERMINED BY THE FABRICATOR; HOWEVER, ONLY A SINGLE ROW OF REINFORCEMENT AROUND THE PERIMETER MAY BE UTILIZED.

SEE STANDARD 602701 FOR DETAILS OF STEPS.

SEE STANDARD 602601 FOR OPTIONAL PRECAST REINFORCED CONCRETE FLAT SLAB TOP.

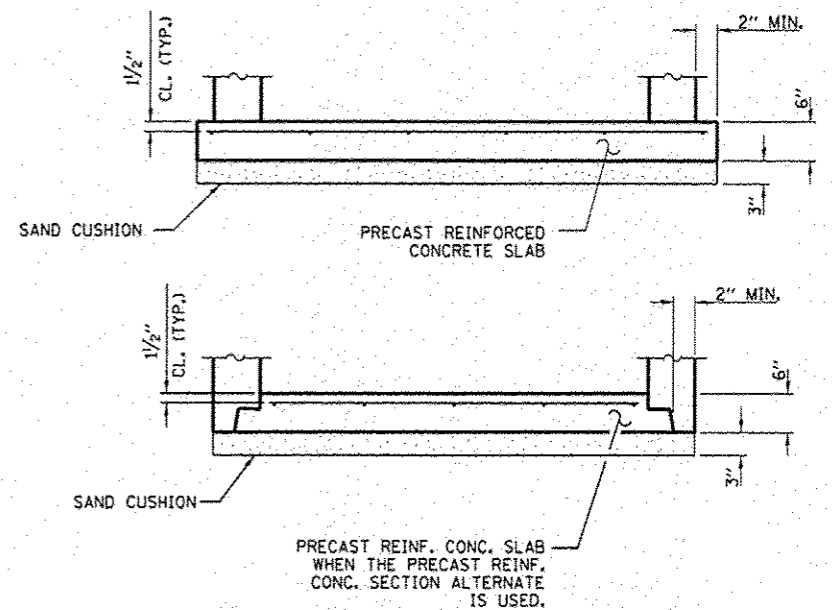
USE THIS DETAIL IN CONJUNCTION WITH STANDARD 602401.

COST OF THE "CONCRETE FILL" WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE "MANHOLE, TYPE A"



ALTERNATE MATERIALS FOR WALLS	D	C*	T (MIN.)
CONCRETE MASONRY UNIT	4'-0" (1.2 M) 5'-0" (1.5 M)	30 (750) 3'-9" (1.15 M)	5 (125) 5 (125)
BRICK MASONRY	4'-0" (1.2 M) 5'-0" (1.5 M)	30 (750) 3'-9" (1.15 M)	8 (200) 8 (200)
PRECAST REINFORCED CONCRETE SECTION	4'-0" (1.2 M) 5'-0" (1.5 M)	30 (750) 3'-9" (1.15 M)	4 (100) 5 (125)
CAST-IN-PLACE CONCRETE	4'-0" (1.2 M) 5'-0" (1.5 M)	30 (750) 3'-9" (1.15 M)	6 (150) 6 (150)

\* FOR PRECAST REINFORCED CONCRETE SECTIONS, DIMENSION "C" MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6 (150).



**ALTERNATE BOTTOM SLAB**

**GENERAL NOTES**

BOTTOM SLABS SHALL BE REINFORCED WITH A MINIMUM OF 0.31 SQ. IN./FT. IN BOTH DIRECTIONS WITH A MAXIMUM SPACING OF 12".

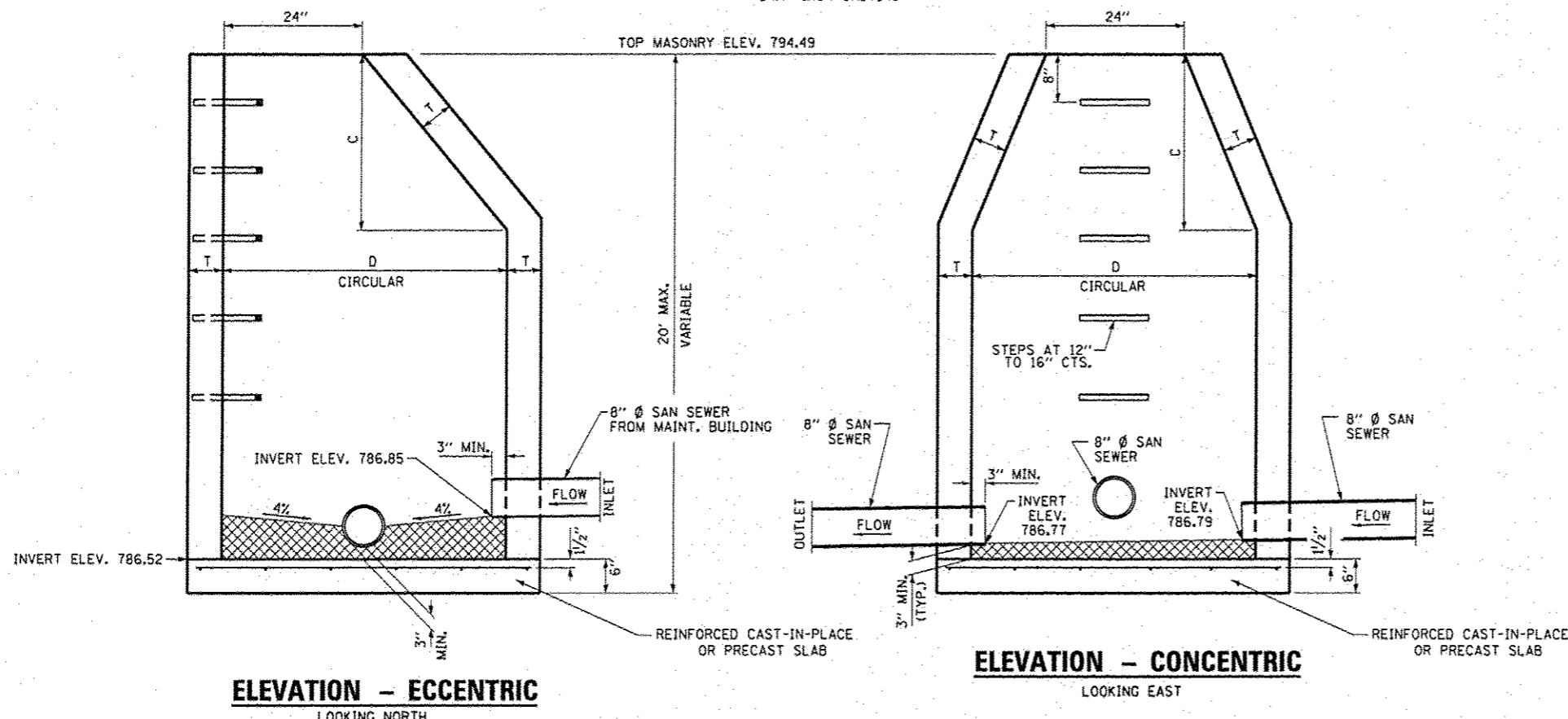
BOTTOM SLABS MAY BE CONNECTED TO THE RISER AS DETERMINED BY THE FABRICATOR; HOWEVER, ONLY A SINGLE ROW OF REINFORCEMENT AROUND THE PERIMETER MAY BE UTILIZED.

SEE STANDARD 602701 FOR DETAILS OF STEPS.

SEE STANDARD 602601 FOR OPTIONAL PRECAST REINFORCED CONCRETE FLAT SLAB TOP.

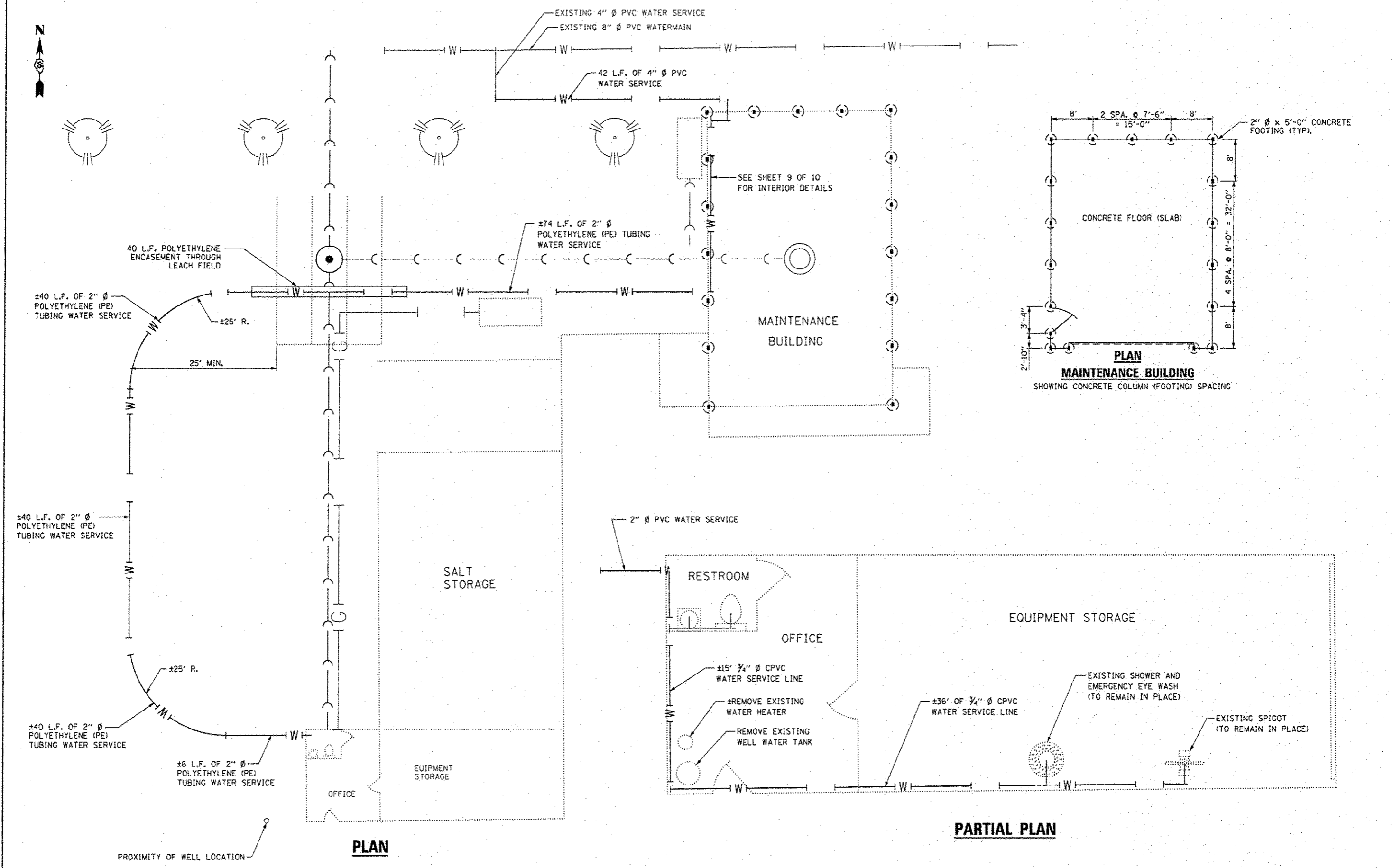
USE THIS DETAIL IN CONJUNCTION WITH STANDARD 602401.

COST OF THE "CONCRETE FILL" WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE "MANHOLE, TYPE A"

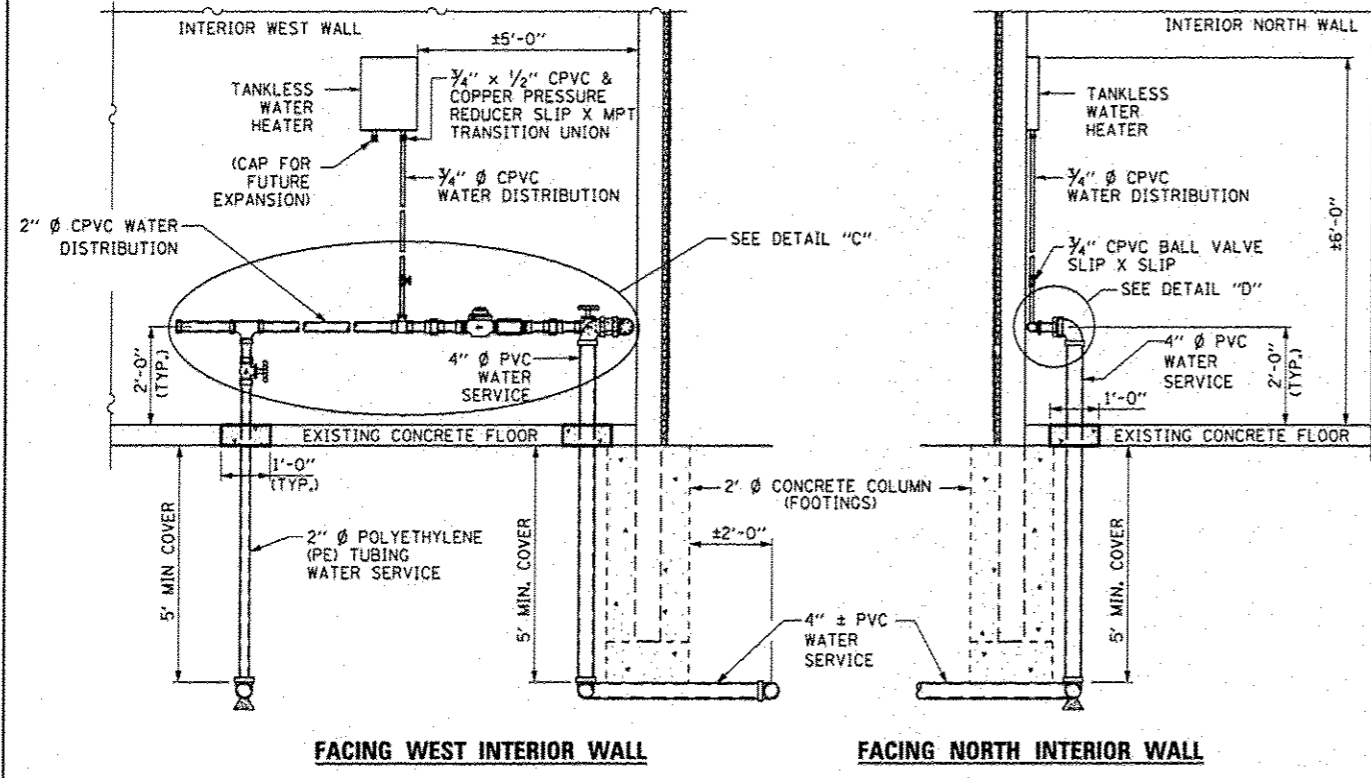


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MODELNAME#	2366023-sht-details.dgn	DRAWN - RON WOODSHANK	REVISED -			SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.	CONTRACT NO. 66023				
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - YOGESH PATEL	REVISED -				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 1/17/2014	DATE = 9/13/2013	REVISED -								





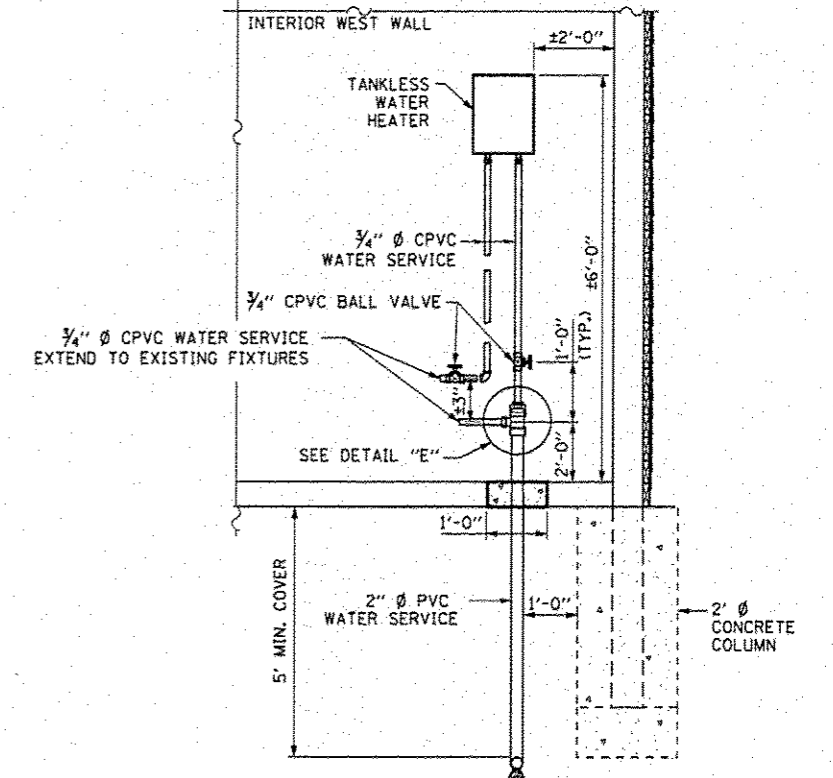
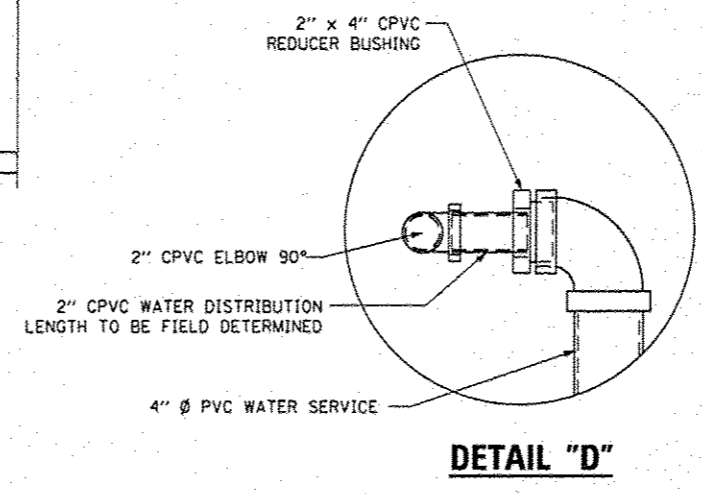
FILE NAME :	USER NAME :	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SITE PLAN FOR WATER SERVICE CONSTRUCTION</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
o:\pwwork\pwwork\woodshankr\140347546\066023-shs-details.dgn	woodshankr	RON WOODSHANK	-			573	03 SANITARY SEWER 2014-1	DEKALB	11	9	
PLOT SCALE :	CHECKED :	DATE :	REVISED :			CONTRACT NO. 66023					
1/8" = 1'-0"	YOGESH PATEL	9/13/2013	-			ILLINOIS FED. AID PROJECT					
MODELNAME :	PLOT DATE :	DATE :	REVISED :	SCALE:		SHEET 1 OF 2 SHEETS		STA.		TO STA.	



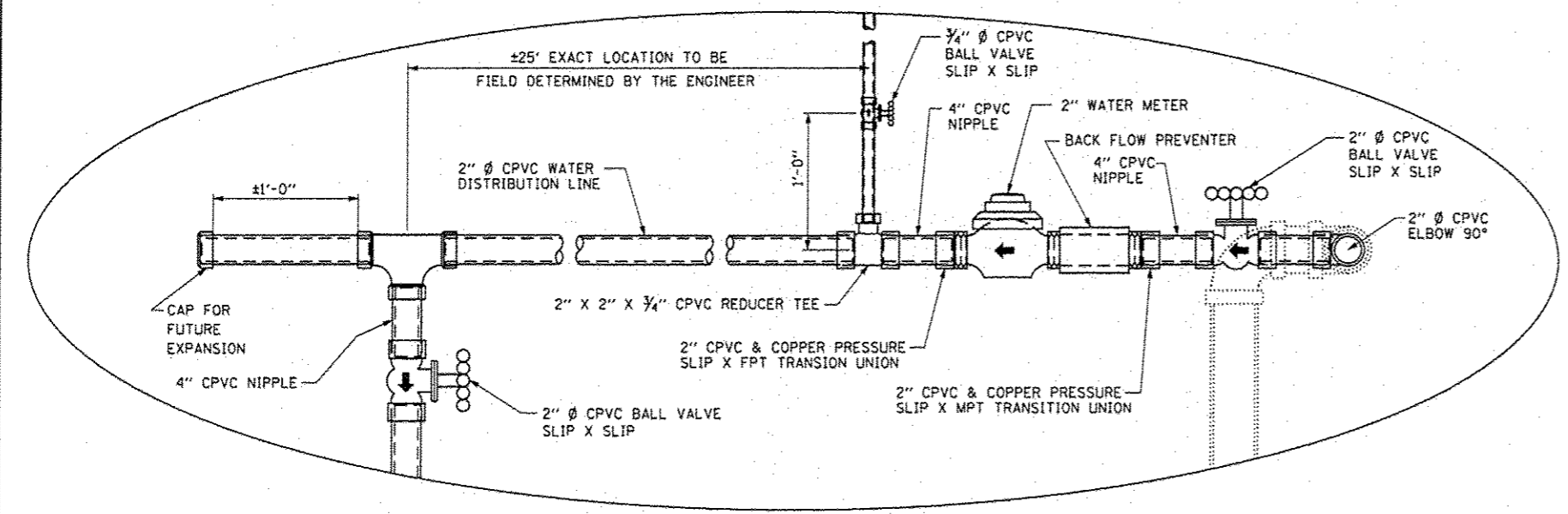
FACING WEST INTERIOR WALL

FACING NORTH INTERIOR WALL

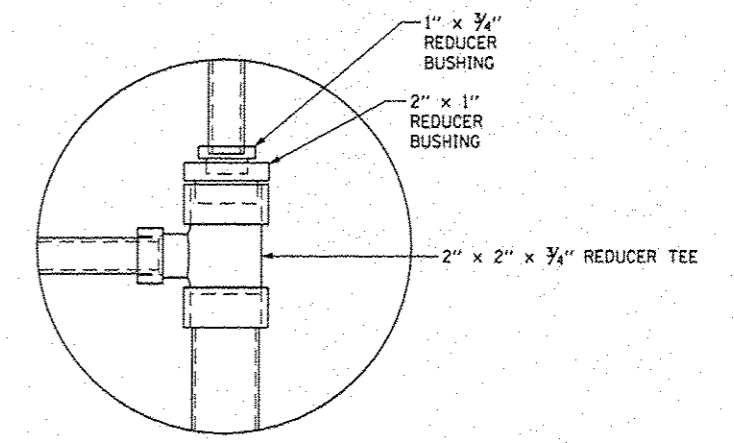
**INTERIOR ELEVATION  
MAINTENANCE BUILDING**



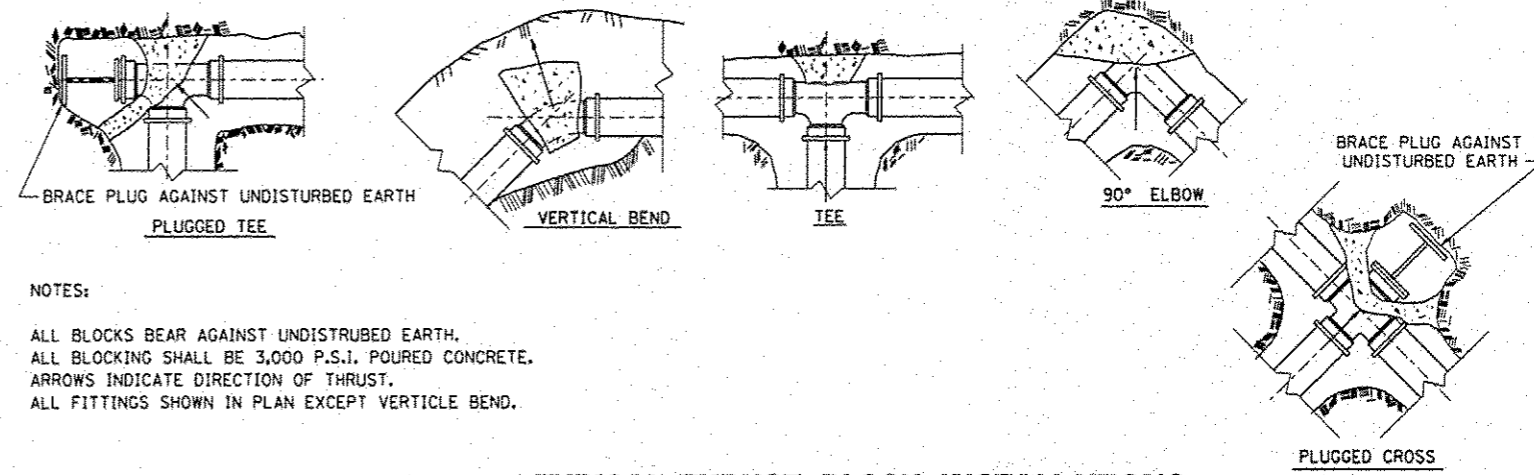
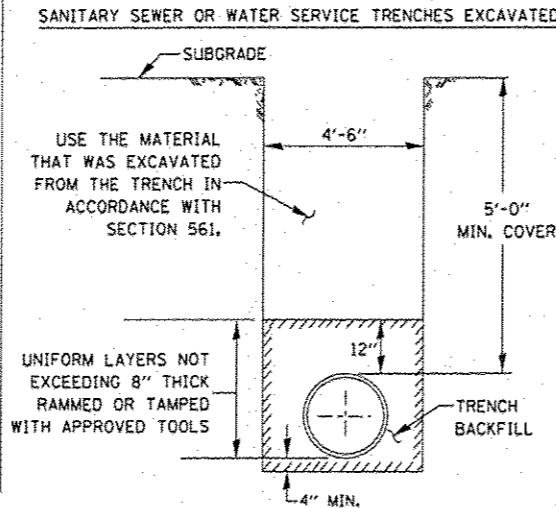
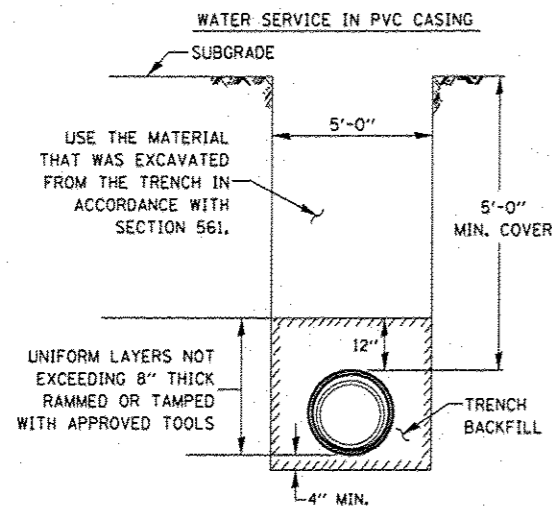
**INTERIOR ELEVATION  
OFFICE RESTROOM  
FACING WEST INTERIOR WALL**



**DETAIL "C"**



FILE NAME :	USER NAME : woodshankr	DESIGNED - RON WOODSHANK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MISCELLANEOUS DETAILS FOR WATER SERVICE CONSTRUCTION</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\woodshankr\1\0347546\386023-shr-details.dgn	DRAWN - RON WOODSHANK	REVISED -	573				D3 SANITARY SEWER 2014-1	DEKALB	11	10	
MODELNAME	PLOT SCALE = 1/8" = 1'-0"	CHECKED - YOGESH PATEL	REVISED -				CONTRACT NO. 66D23				
	PLOT DATE = 1/17/2014	DATE - 9/13/2013	REVISED -				ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.			



NOTES:  
 ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH.  
 ALL BLOCKING SHALL BE 3,000 P.S.I. POURED CONCRETE.  
 ARROWS INDICATE DIRECTION OF THRUST.  
 ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

**TYPICAL THRUST BLOCK INSTALLATIONS**

**GENERAL NOTES:**

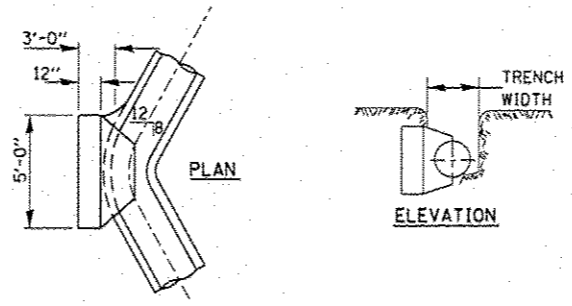
1. ANY SOFT OR SPONGY MATERIAL ENCOUNTERED BELOW THE ELEVATION OF THE PIPE SHALL BE REMOVED AND REPLACED WITH WELL COMPACTED MOIST FINE AGGREGATE.
2. ANY ROCK ENCOUNTERED IN THE TRENCH SHALL BE REMOVED TO A DEPTH OF AT LEAST 8 INCHES BELOW THE PIPE GRADE AND REPLACED WITH WELL COMPACTED MOIST FINE AGGREGATE.
3. THE SIDES OF THE TRENCH MAY BE SLOPED OR BENCHED ABOVE A 5 FT. TRENCH DEPTH OR ABOVE THE ELEVATION OR THE TOP OF PIPE, WHICHEVER IS GREATER, IN LIEU OF COMPLETE SHORING OR SHEETING OF THE FULL TRENCH DEPTH.

**BACKFILL OPTIONS:**

METHOD 1: UNIFORM LAYERS NOT EXCEEDING 12" THICK RAMMED OR TAMPED WITH APPROVED TOOLS

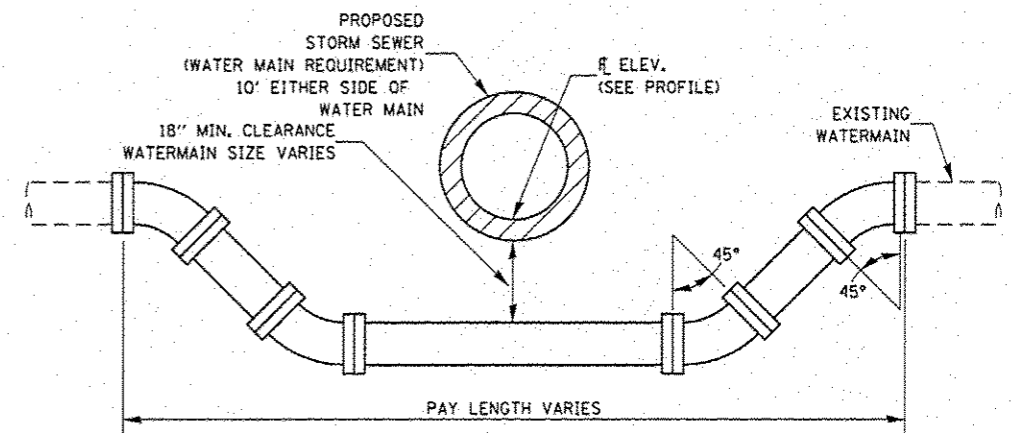
METHOD 2: UNIFORM LAYERS NOT EXCEEDING 12" THICK INUNDATED OR DEPOSITED IN WATER

METHOD 3: FILL TRENCH WITH LOOSE MATERIAL THEN JET WITH WATER, 6 FT MAXIMUM SPACING OF HOLES



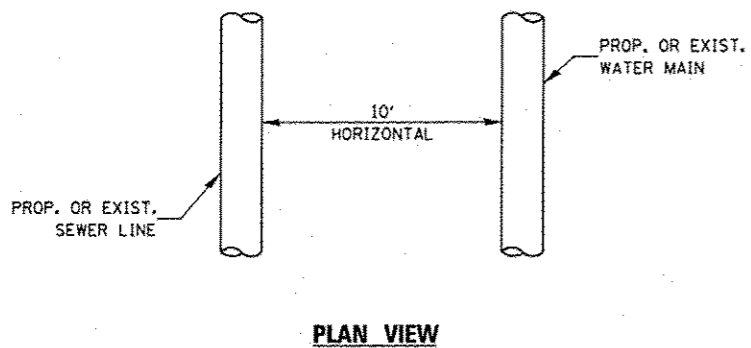
**BEND BLOCKING**

11'4"

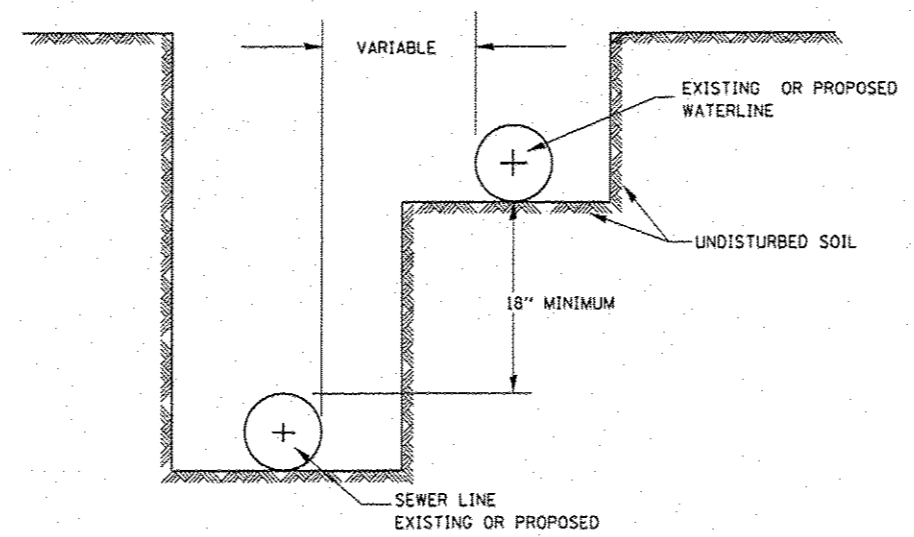


**ADJUSTING WATERMAIN DETAIL**

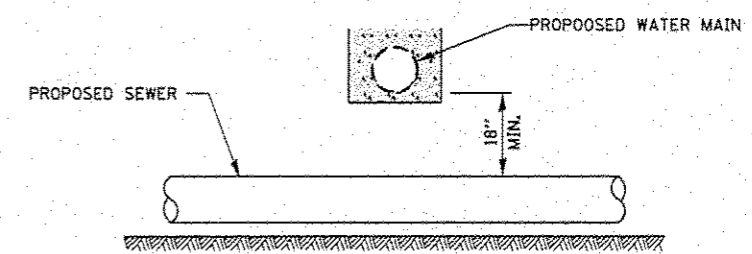
PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER).



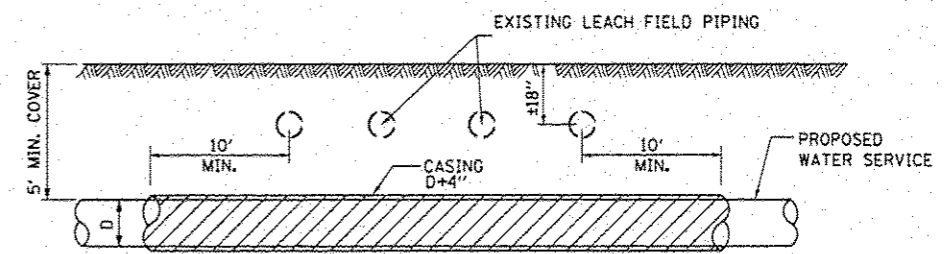
PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER).



**WATER AND SEWER SEPARATION REQUIREMENTS - HORIZONTAL SEPARATION**



**PROPOSED SANITARY SEWER LINE UNDER PROPOSED WATER SERVICE**



**PROPOSED "WATER SERVICE PROTECTION" UNDER LEACH FIELD PIPING (CASING REQUIRED)**

FILE NAME *	USER NAME * woodshank1	DESIGNED - RON WOODSHANK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MISCELLANEOUS DETAILS FOR WATER SERVICE CONSTRUCTION</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\p\dott\woodshank1\08347546\0366023.rvt-detailed.dgn	DRAWN - RON WOODSHANK	REVISED -	573			D3 SANITARY SEWER 2014-1	DEKALB	11	11	
PLOT SCALE * 1/8" = 1' - 0"	CHECKED - YOGESH PATEL	REVISED -	CONTRACT NO. 66D23							
MODELNAME*	PLOT DATE * 1/17/2014	DATE - 9/13/2013	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET 2 OF 2 SHEETS		STA.	TO STA.	