

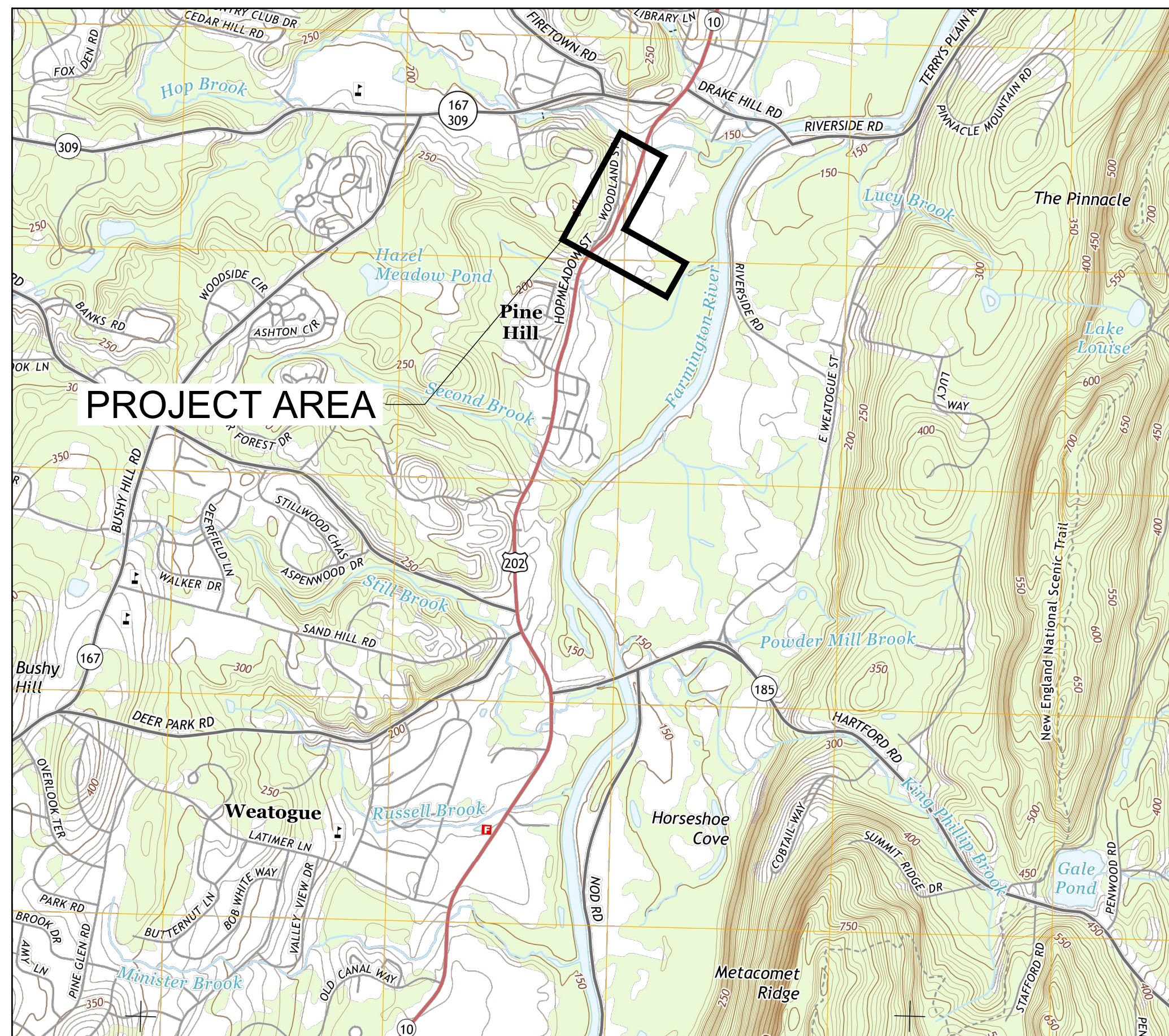
TOWN OF SIMSBURY STATE OF CONNECTICUT WATER POLLUTION CONTROL AUTHORITY WOODLAND STREET SEWER REPLACEMENT PROJECT

JUNE 11, 2021

MARIA CAPRIOLA - TOWN MANAGER

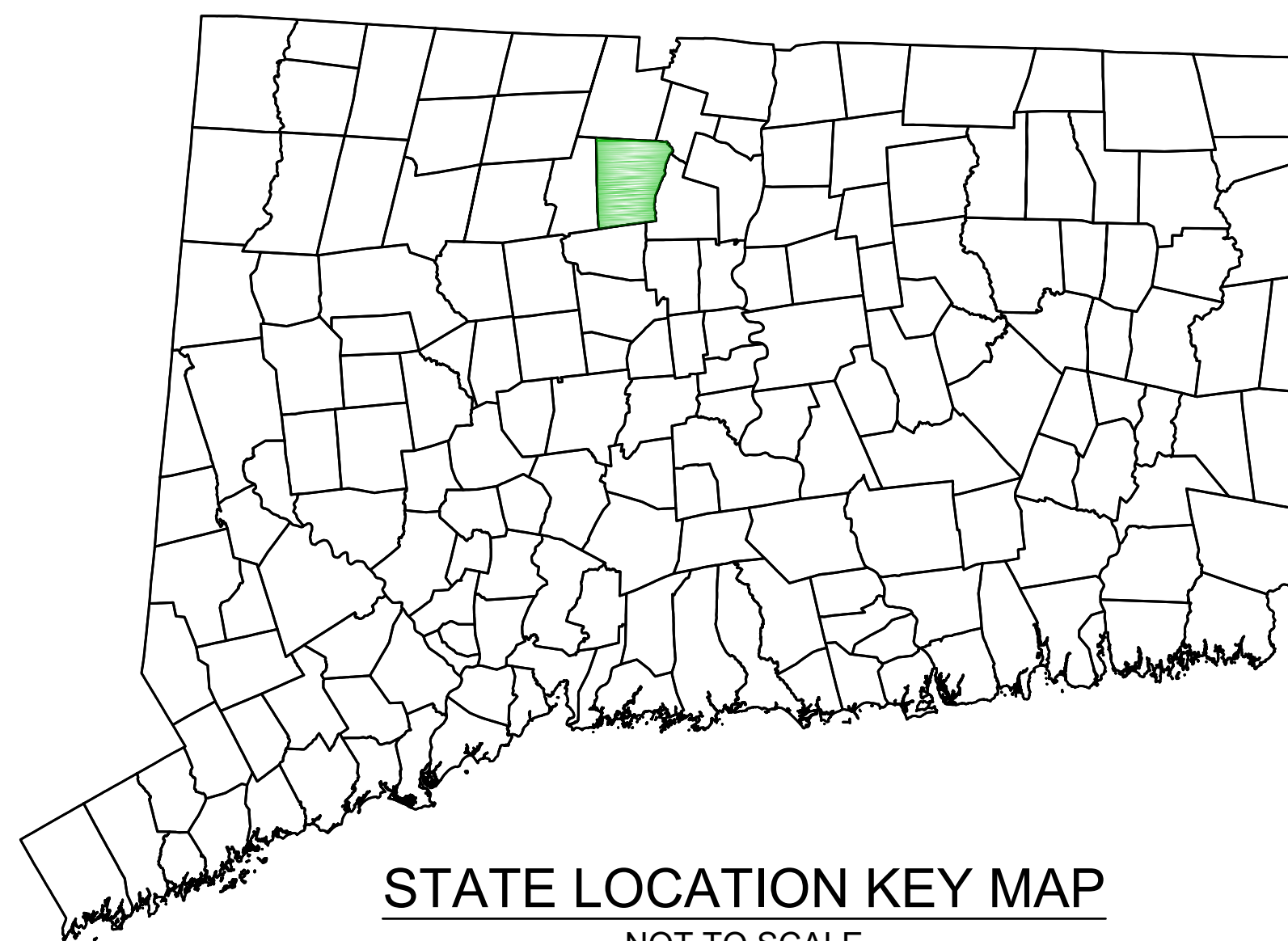
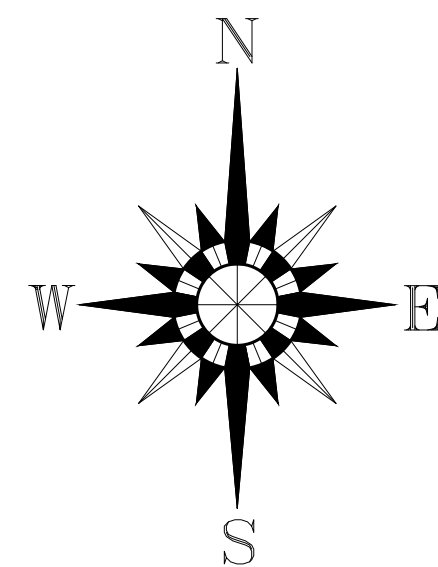
THOMAS ROY, P.E. - DIRECTOR OF PUBLIC WORKS

ANTHONY PIAZZA - WPCF SUPERINTENDENT



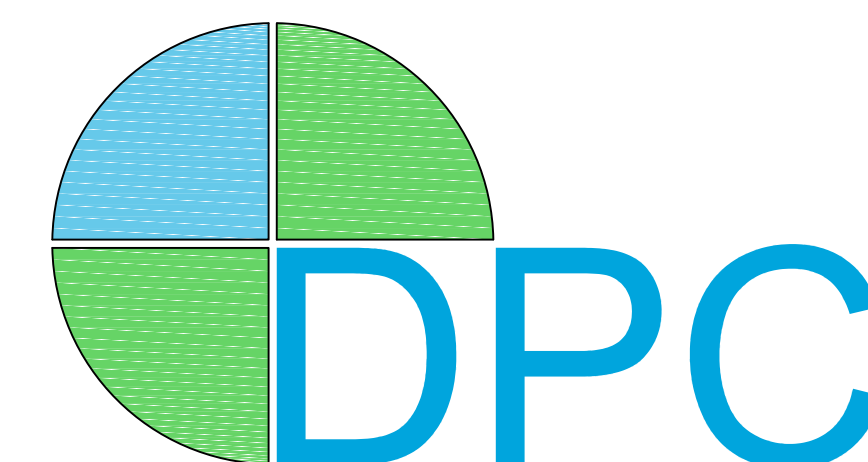
PROJECT SITE LOCATION MAP

SCALE: 1"=1000'



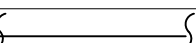
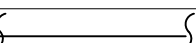
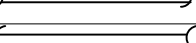
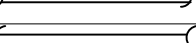
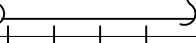
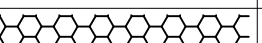
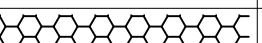
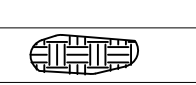
STATE LOCATION KEY MAP

NOT TO SCALE



DPC ENGINEERING, LLC

22 Northfield Road Longmeadow, MA 01106

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	—S—	—8"S PVC—
FORCE MAIN	—FM—	---6"FM DI---
WATER MAIN	—W—	—6"W DI—
TEMPORARY WATER		-----4"W-----
STORM DRAIN	—D—	—18"D RCP—
GAS	—G—	—4"G—
ELECTRIC	—E—	—E—
TELEPHONE		—T—
HOUSE CONNECTION		 6" HOUSE CONN (TYP)
GRINDER PUMP	○ GP	● GP
SANITARY SEWER MANHOLE	⊙	● SMH
STORM DRAIN MANHOLE	⊙	● DMH
ELECTRICAL MANHOLE	⊙	● EMH
TELEPHONE MANHOLE	⊙	● TMH
AIR RELEASE VALVE MANHOLE	⊙	● ARMH
FORCE MAIN CLEANOUT MANHOLE	⊙	● FMMH
CLEANOUT	○	● CO
CATCH BASIN	□	■ CB
CATCH BASIN (CURB INLET)		
HYDRANT		◆
TEMPORARY HYDRANT		⊞
GATE VALVE		⌞
CHECK VALVE		⌞
CURB STOP		⌞
BUTTERFLY VALVE		⌞
BALL VALVE		⌞
REDUCER	◁	◁
CAP OR PLUG	⌈	⌈
GAS GATE VALVE		
UTILITY POLE	⌚	
GUY POLE	⌚	
LIGHT POST	☆	
EDGE OF PAVEMENT	— — —	— — —
EDGE OF UNPAVED ROAD	— — —	— — —
CURB		
SIDEWALK		
RAILROAD		
STONE WALL		
RETAINING WALL	 RET WALL	 RET WALL
FENCE	—X—	
INDIVIDUAL DECIDUOUS TREE		
INDIVIDUAL EVERGREEN TREE		
TREE LINE		
SURVEY MARKER	⊞	
PROPERTY LINE	— — —	— — —
EASEMENT LINE	— — —	— — —
LIMIT OF WORK	— — —	— — —
APPROX. LIMIT OF REFUSE	— — —	— — —
SPOT ELEVATIONS	× 100.2	× 101.5
CONTOUR LINES	—56—	—56—
DEPRESSION CONTOUR LINES		
HOUSE NUMBER	#35	
FLOOR ELEVATION	FL=56.7	
SILL ELEVATION	S=56.7	
WETLAND	— · · —	
WETLAND FLAGS	• 1	
RIP RAP		
GUARD POST	△	▲
BOLLARD	○ B	● B
SIGN	⌞	
BENCH MARK		
PERCOLATION TEST	PT ● 1	● PT-1
TEST PIT	TP ● 1	■ TP-1
BORING	⊕ B-1	⊕ B-3
PROBE	⊕ P-1	⊕ P-1
GROUNDWATER MONITORING WELL	⊕ GW-1	⊕ GW-1
AUGER	⊕ A-1	⊕ A-1
HAY BALES		⋯⋯⋯⋯⋯
ROCK OUTCROP		
DRAINAGE DITCH / SWALE	— :: —	— :: —
NOTE: ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS		

- PROJECT GENERAL NOTES AND INFORMATION
- GENERAL CIVIL NOTES:
- SHEET NO.

DRAWING NO.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

THE CONTRACTOR SHALL CALL "DIG SAFE" AT (888) 344-7233 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE "DIG SAFE" PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.

LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.

TEST PITS TO LOCATE EXISTING UTILITIES SHALL BE CONDUCTED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE WORK OR REQUESTED BY THE ENGINEER/OWNER. IF NO TEST PIT PAYMENT ITEM IS PROVIDED WITHIN THE CONTRACT DOCUMENTS, TEST PITS TO LOCATE EXISTING UTILITIES SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.

STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.

ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL MAINTAIN SIDE SLOPES AND DRAINAGE SWALES DURING CONSTRUCTION TO PREVENT PONDING AND EROSION. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, AND EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN THE DISTANCE AS DEFINED BY THE CONSERVATION COMMISSION OR 100 FEET OF WETLANDS, WHICH EVER IS GREATER.

THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS, IN ACCORDANCE WITH THE MINIMUM AND MAXIMUM SLOPES SPECIFIED.

THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES BEFORE BEGINNING OTHER WORK ON SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND AS NECESSARY REPLACING ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT. ALL EROSION CONTROL DEVICES SHALL BE REVIEWED AFTER EACH RAIN EVENT WITH MODIFICATIONS COMPLETED AS NECESSARY TO MAINTAIN THE EROSION CONTROL DEVICES.

THE CONTRACTOR SHALL NOTIFY THE LOCAL UTILITY COMPANIES A MINIMUM OF 72 HOURS PRIOR TO EXCAVATING NEAR EXISTING UTILITIES (ABOVE OR BELOW GROUND).

CONCRETE CRADLES OR ARCHES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. UNLESS OTHERWISE INDICATED, CONCRETE USED FOR PIPE ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES, AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

CONCRETE THRUST BLOCKS, ANCHOR BLOCKS, OR APPROVED JOINT RESTRAINT METHODS SHALL BE PROVIDED FOR PRESSURE PIPE SYSTEMS (WATER MAINS, FORCE MAINS, SERVICE WATER MAINS, ETC.) WHERE ANY BENDS, TEES, PLUGS, OR WYES ARE INSTALLED. FOR THRUST BLOCK DETAILS AND MINIMUM BLOCK BEARING AREAS, SEE DETAILS.

TRENCHES MAY BE EXCAVATED WIDER THAN THE 'LIMIT OF EXCAVATION FOR EARTH EXCAVATION' ABOVE THE 'LINE OF NARROW TRENCH LIMIT.' ANY SUCH ADDITIONAL EXCAVATION SHALL BE AT THE CONTRACTORS EXPENSE AND SHALL NOT BE MEASURED FOR PAYMENT.

BELOW THE 'LINE OF NARROW TRENCH LIMIT' THE TRENCH SHOULD NOT BE EXCAVATED BEYOND THE TRENCH WIDTH 'W'. IF MATERIAL IS LOOSENEED OR REMOVED BEYOND THE ABOVE-MENTIONED LIMITS, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE CRUSHED STONE FOR THE FULL WIDTH OF THE TRENCH AT NO ADDITIONAL COST TO THE OWNER.

SHEETING TO BE LEFT IN PLACE SHALL BE USED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. IT SHALL BE LEFT IN PLACE BELOW A LINE 12 INCHES ABOVE THE TOP OF THE PIPE/STRUCTURE UNLESS OTHERWISE REQUIRED BY THE ENGINEER.

PROTECTION OF WATER SUPPLIES - WHENEVER A SEWER MUST CROSS UNDER A WATER MAIN, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS A MINIMUM OF 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER TO PROVIDE THIS SEPARATION OR THE CONTRACTOR SHALL CONSTRUCT THE NEW SEWER OF CLASS 150 PRESSURE PIPE FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER MAIN. ONE FULL LENGTH OF CLASS 150 PRESSURE PIPE SEWER SHALL BE CENTERED ON THE WATER MAIN AS MUCH AS POSSIBLE. THE SEWER CONSTRUCTED OF THE PRESSURE PIPE MUST BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS AND THE INTERIOR OF THE PIPE SHALL BE COATED WITH THE SEWER PROTECTION COATING FOR DUCTILE IRON PIPES.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND COORDINATE ALL THE DIFFERENT CONSTRUCTION DISCIPLINES FOR LOCATION, SIZE, SERVICEABILITY, SUPPORT SYSTEMS, CONNECTIONS (PIPING, ELECTRICAL, INSTRUMENTATION, ETC.), INCIDENTALS AND ALL OTHER COMPONENTS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM MEETING THE APPROVAL OF THE ENGINEER. IF ONE SYSTEM IS SHOWN ON ONE SET OF DISCIPLINE DRAWINGS/SPECIFICATIONS BUT THE SAME SYSTEM IS MISSING OR INCOMPLETE ON ANOTHER SET OF DISCIPLINE DRAWINGS/SPECIFICATIONS THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER, SHALL PROVIDE ALL NECESSARY EQUIPMENT, MATERIALS, LABOR, SUPPORT SYSTEMS, CONNECTIONS (PIPING, ELECTRICAL, INSTRUMENTATION, ETC.), COORDINATION, INCIDENTALS AND ANY AND ALL OTHER COMPONENTS REQUIRED FOR FURNISHING AND INSTALLING THE SYSTEM COMPLETE AS WELL AS PROVIDING A COMPLETE AND FUNCTIONAL SYSTEM MEETING THE APPROVAL OF THE ENGINEER.
- GENERAL SITE GRADING NOTES:
1.

2.

3.

4.

5.

6.

ALL ROAD AND PARKING AREA SURFACES SHALL PITCH A MINIMUM OF 1/4" PER FOOT UNLESS OTHERWISE NOTED. REFER TO DRAWING FOR DETAILS.

ALL AREAS THAT ARE EXCAVATED, FILLED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. AT A MINIMUM, THE TOP 6 INCHES OF SOIL SHALL BE LOAM.

THE CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS. THE CONTRACTOR SHALL PROVIDE ANTI TRACKING PADS AT THE ENTRANCE TO THE CONSTRUCTION SITE AND SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP OF ANY SPILLED OR TRACKED DEBRIS.

ALL CATCH BASINS, MANHOLES, VALVE BOXES, VALVE PITS, CONCRETE STRUCTURES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS AND EXCESS EXCAVATED MATERIAL FROM WITHIN THE CONSTRUCTION LIMIT OF WORK. IF THE OWNER DESIRES TO KEEP THE MATERIAL, THE CONTRACTOR SHALL RELOCATE THE MATERIAL TO A SUITABLE SITE LOCATED WITHIN THE CONFINES OF THE OWNERS JURISDICTION AT NO ADDITIONAL COST TO THE OWNER. IF THE OWNER DOES NOT DESIRE TO KEEP THE MATERIAL THE CONTRACTOR SHALL RELOCATE THE MATERIAL TO A SUITABLE SITE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE TRANSPORTATION AND RELOCATION OF THE MATERIAL SHALL BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES. COORDINATE FINE GRADING WITH THE ENGINEER.
- GENERAL SITE LAYOUT NOTES:
1.

2.

3.

4.

REFER TO THE SITE PLANS FOR ADDITIONAL LAYOUT INFORMATION.

THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND ENGINEER. THE CONTRACTOR SHALL LIMIT HIS ACTIVITIES TO THESE AREAS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTNG ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY HIS OPERATIONS. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE **STATE OF CONNECTICUT** AT NO ADDITIONAL COST TO THE OWNER.

WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- GENERAL SITE PIPING NOTES:
1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

ALL PIPE LINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS INDICATED ON THE DRAWINGS. NO CRESTS OR SAGS WITHIN THE PIPING SHALL BE PERMITTED. ALL HORIZONTAL AND VERTICAL BENDS IN PRESSURIZED LINES SHALL BE SUITABLY RESTRAINED WITH THRUST BLOCKS OR RETAINER GLANDS. SEE DETAIL DRAWINGS FOR THRUST BLOCK DETAILS. PROVIDE ALL BENDS (HORIZONTAL AND VERTICAL) AS REQUIRED TO MEET THE GRADES AND ALIGNMENT INDICATED ON THE DRAWINGS. **NOTEWELL:** NOT ALL BENDS AND FITTINGS ARE SHOWN, BENDS AND FITTINGS REQUIRED FOR THE ALIGNMENT SHOWN SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

ALL BURIED CONNECTIONS TO STRUCTURES SHALL HAVE SLEEVE TYPE FLEXIBLE CONNECTIONS APPROXIMATELY 4 FEET FROM THE STRUCTURES WHETHER OR NOT SHOWN ON DRAWINGS. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED. **NOTEWELL:** NOT ALL COUPLINGS ARE SHOWN, COUPLINGS REQUIRED FOR THE ALIGNMENT SHOWN SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

PROVIDE CAST IN PLACE WALL PIPES/PIPE SLEEVES FOR ALL PIPE PENETRATIONS MADE THROUGH NEW CONCRETE FOUNDATIONS, WALLS AND SLABS. ALL WALL SLEEVES SHALL HAVE INTEGRAL WATERSTOPS. SEE PROCESS, MECHANICAL DRAWINGS FOR LOCATIONS OF PENETRATIONS. SEE DETAIL DRAWINGS.

A MINIMUM OF 5 FEET OF COVER IS REQUIRED ON ALL LIQUID CARRYING PIPES. INSULATION SHALL BE USED WHERE DEPTH OF COVER IS LESS THAN 5 FEET.

MANHOLES SHALL BE A MINIMUM OF 4 FEET IN DIAMETER. THE TOP OF MANHOLE FRAMES SHALL BE SET FLUSH WITH FINISH GRADE, UNLESS OTHERWISE NOTED ON DRAWINGS.

PIPES WITHIN VALVE PITS SHALL BE SUPPORTED A MINIMUM OF 12-INCHES ABOVE THE BOTTOM OF THE STRUCTURE ON ADJUSTABLE PIPE SADDLE SUPPORTS, UNLESS OTHERWISE INDICATED. ALL PIPE SUPPORTS SHALL BE OF STAINLESS STEEL CONSTRUCTION

COMPACTION TESTING SHALL BE PERFORMED BY THE CONTRACTOR AND ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION. CONTRACTOR SHALL VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION. TEST PITS SHALL BE USED AS REQUIRED.

ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE DEMOLITION PLAN OR REQUIRED BY THE ENGINEER.

CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION MATERIALS.

ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO ANY TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT BECAUSE OF CONTRACTORS CONSTRUCTION ACTIVITIES ON THE PROJECT SHALL BE COORDINATED THROUGH THE OWNER AND UTILITY COMPANY.

ANY ELECTRICAL CONDUIT RUNS AND UTILITIES SHOWN ON THE CIVIL AND MECHANICAL DRAWINGS ARE FOR INFORMATIONAL AND DISCIPLINE COORDINATION PURPOSES. REFER TO THE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- EXISTING CONDITIONS GENERAL NOTES:
1.

2.

3.

4.

THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND MAY NOT BE COMPLETE. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING. THE CONTRACTOR SHALL REALIGN NEW PIPE LOCATIONS AS REQUIRED TO CONFORM TO EXISTING LINES AND AS APPROVED BY THE ENGINEER.

DISPOSAL OF ASBESTOS SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

PROPERTY LINE INFORMATION, TOPOGRAPHIC INFORMATION, EDGE OF PAVEMENT, UTILITY POLE LOCATIONS, AND LOCATIONS OF EXISTING ABOVE GROUND STRUCTURES WERE TAKEN FROM AVAILABLE MAPPING PROVIDED BY THE OWNER IN CONJUNCTION WITH **RECORD DRAWINGS AND SURVEY INFORMATION PROVIDED BY THE TOWN OF SIMSBURY**. THE INFORMATION IS PROVIDED FOR INFORMATIONAL AND COORDINATION PURPOSES, NO GUARANTEES ON THE ACCURACY OF SAID INFORMATION IS PROVIDED BY THE ENGINEER.

EXISTING UNDERGROUND UTILITY INFORMATION, PIPE SIZES, PIPE TYPES, AND LOCATIONS WERE TAKEN FROM AVAILABLE MAPPING PROVIDED BY THE OWNER AND THE LOCAL UTILITY COMPANIES IN CONJUNCTION WITH DETAILED FIELD MARKINGS PROVIDED BY THE LOCAL UTILITY COMPANIES. THE INFORMATION IS PROVIDED FOR INFORMATIONAL AND COORDINATION PURPOSES, NO GUARANTEES ON THE ACCURACY OF SAID INFORMATION IS PROVIDED BY THE ENGINEER.
- 217
- TYPICAL ABBREVIATIONS
- ABR

AC

CB

CMH

CHM

CI

C

CW

COC

DMH

ANOXIC BASIN RECYCLE

ASBESTOS CEMENT

CATCH BASIN

CONTAINMENT MANHOLE

CHEMICAL FEED CONDUIT

CAST IRON PIPE

CENTER LINE

CITY WATER

CENTER ON CENTER

DRAIN MANHOLE

DI

DR

E

EFF

FE

FM

FRP

G

GS

DUCTILE IRON PIPE

DRAIN

ELECTRIC

EFFLUENT

FINAL EFFLUENT

FORCE MAIN

FIBERGLASS REINFORCED PLASTIC

GAS

GALVANIZED STEEL PIPE

H

HDPE

HYD

IFB

INF

INV

MH

MTF

MTR

NIC

HEAT

HIGH DENSITY POLYETHYLENE

HYDRANT

INVITATION FOR BIDS

INFLUENT SEWER

INVERT ELEVATION

MANHOLE

MEMBRANE TANK FEED

MEMBRANE TANK RECYCLE

NOT IN CONTRACT

OHE

OHW

OUT

P.C.

PE

SD

PRW

PTE

PVC

OVERHEAD ELECTRICAL

OVERHEAD WIRES

OUTFALL

POINT OF CURVATURE

POLYETHYLENE PIPE

POLYPROPYLENE

PROCESS WATER

PRELIMINARY TREATMENT EFFLUENT

POLYVINYL CHLORIDE PIPE

PW

RCP

RGS

S

SAM

SD

SL

SS

SUP

PLANT WATER

REINFORCED CONCRETE PIPE

RIGID GALVANIZED STEEL

SEWER

SAMPLER LINE CONDUIT

STORM DRAIN

SLUDGE

SEWER MANHOLE

STAINLESS STEEL PIPE

SUPERNATANT

T

UD

UDC

UGE

VC

W

XFMR

±

TELEPHONE

UNDER DRAIN

UNDER DRAIN COLLECTOR

UNDERGROUND ELECTRIC

VITRIFIED CLAY

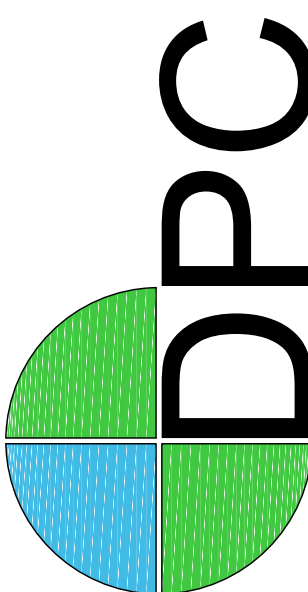
WATER

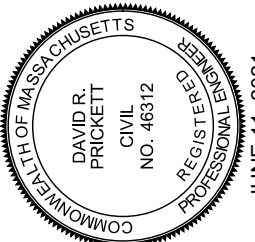
TRANSFORMER

DEGREES (ANGLE)

PLUS OR MINUS

DPC ENGINEERING, LLC
22 Northfield Road
Longmeadow, MA 01106
(413) 567-8310
(413) 567-1030
DPCENGINEERING.COM





WOODLAND STREET
SEWER REPLACEMENT
PROJECT

WATER POLLUTION CONTROL AUTHORITY

SIMSBURY, CONNECTICUT

SCALE: AS NOTED

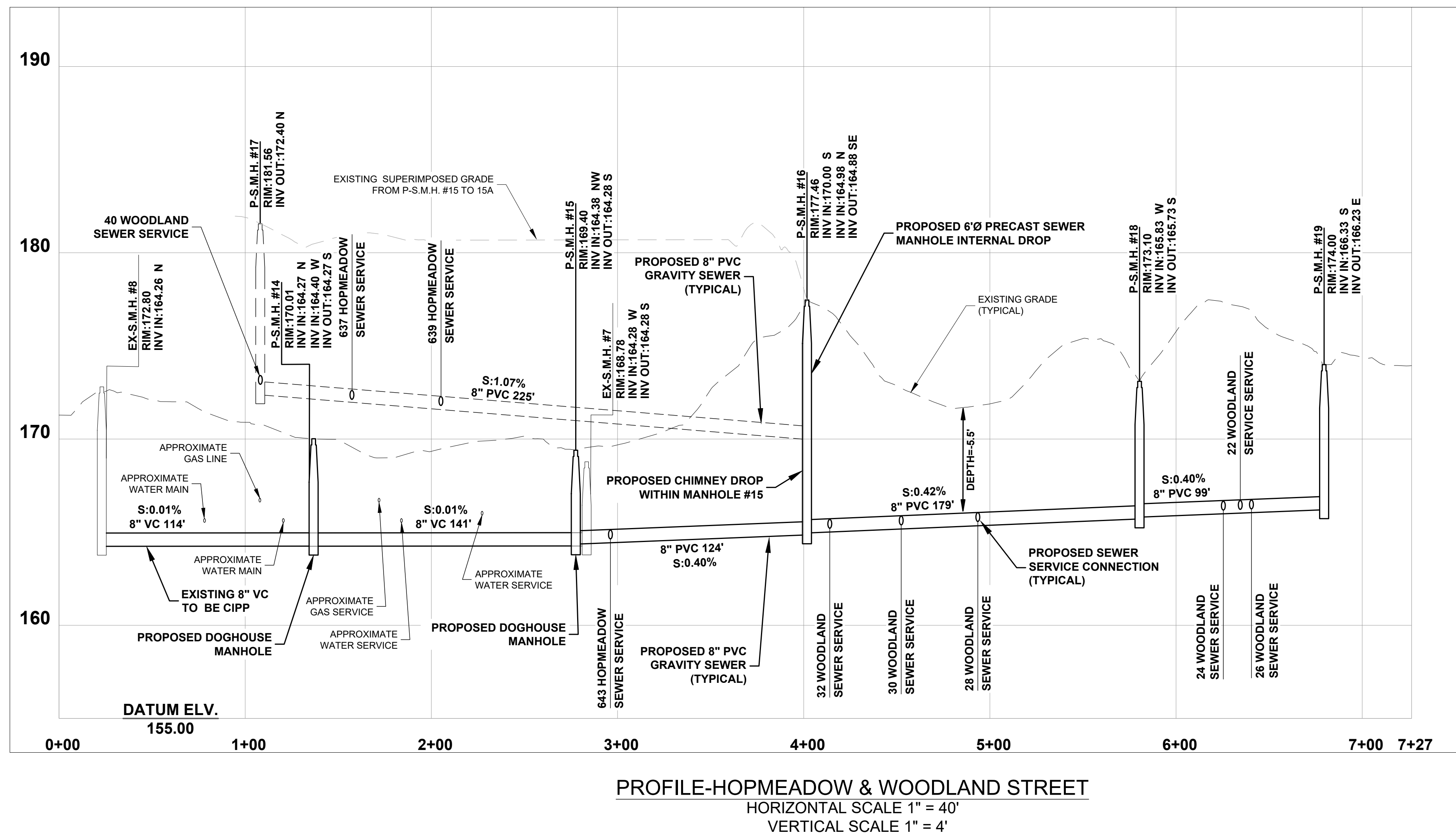
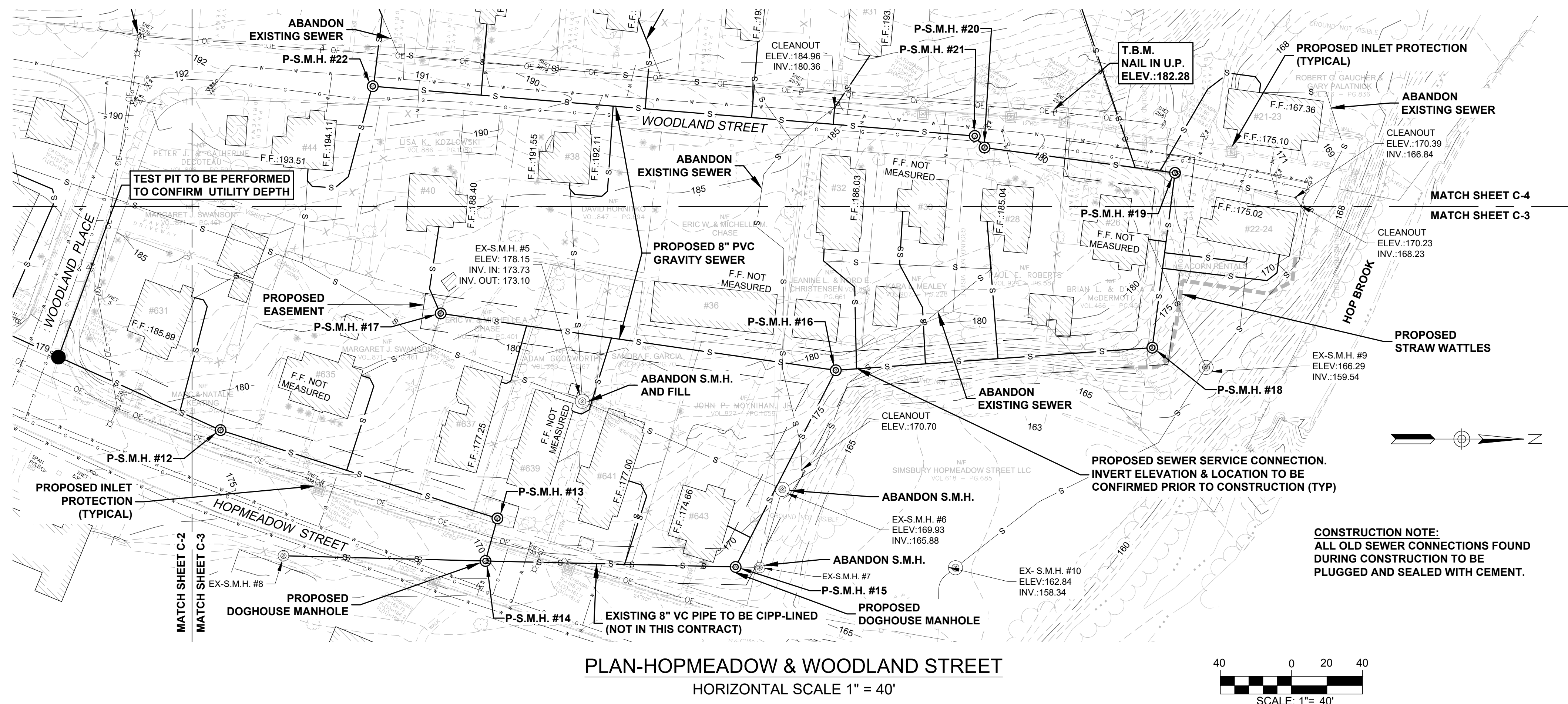
SCALE SHEET SIZE: 22X34

JOB NO.:

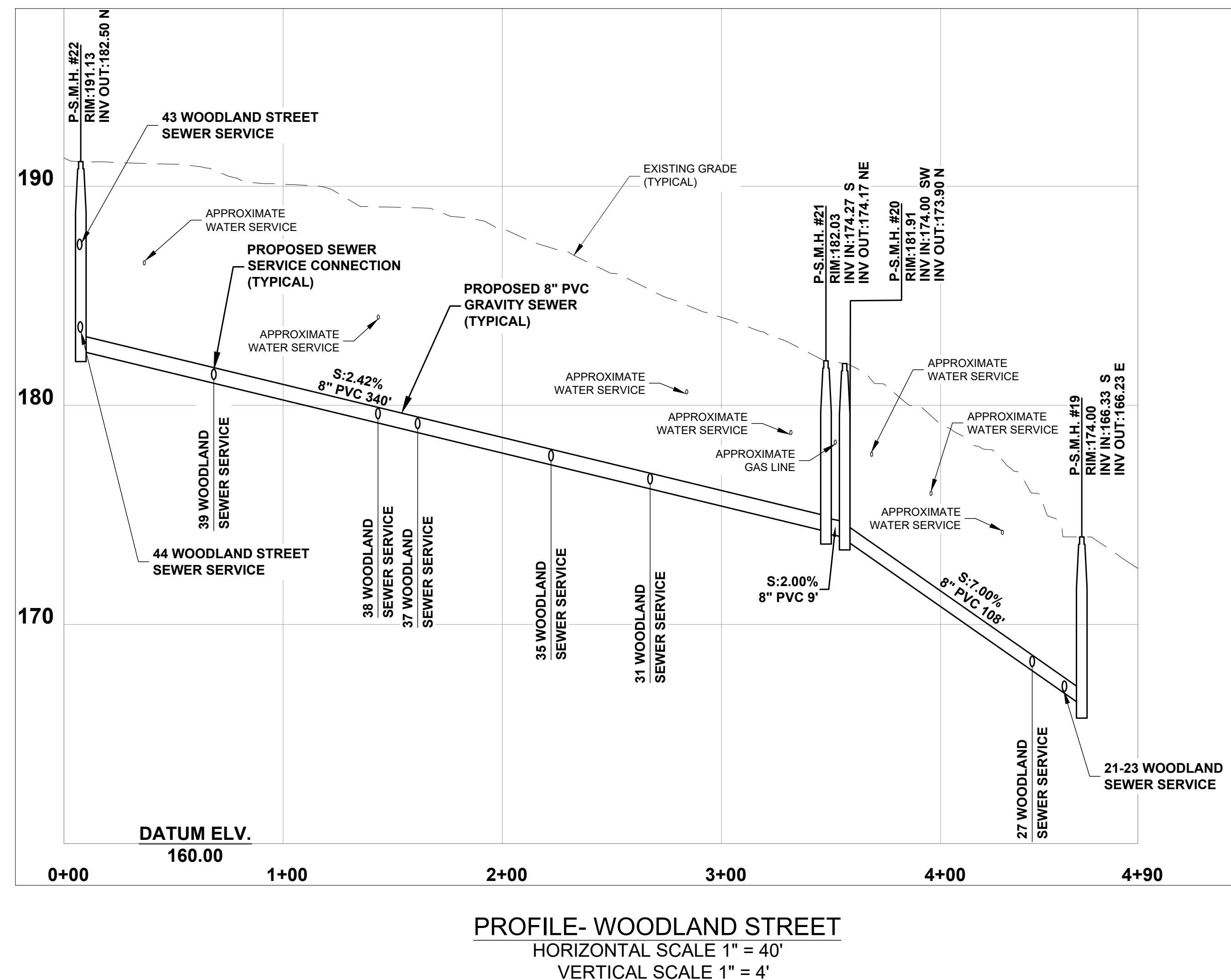
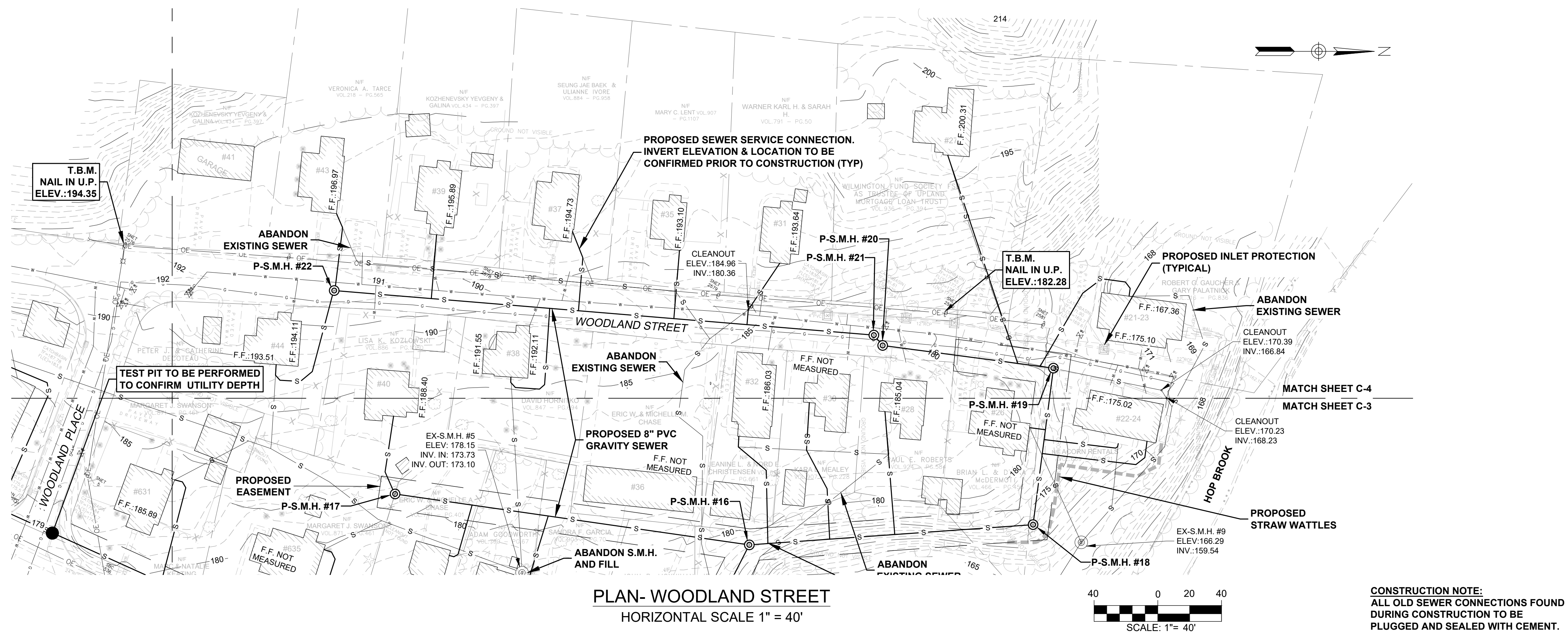
DATE: JUNE 11, 2021

SHEET: 2 OF: 12

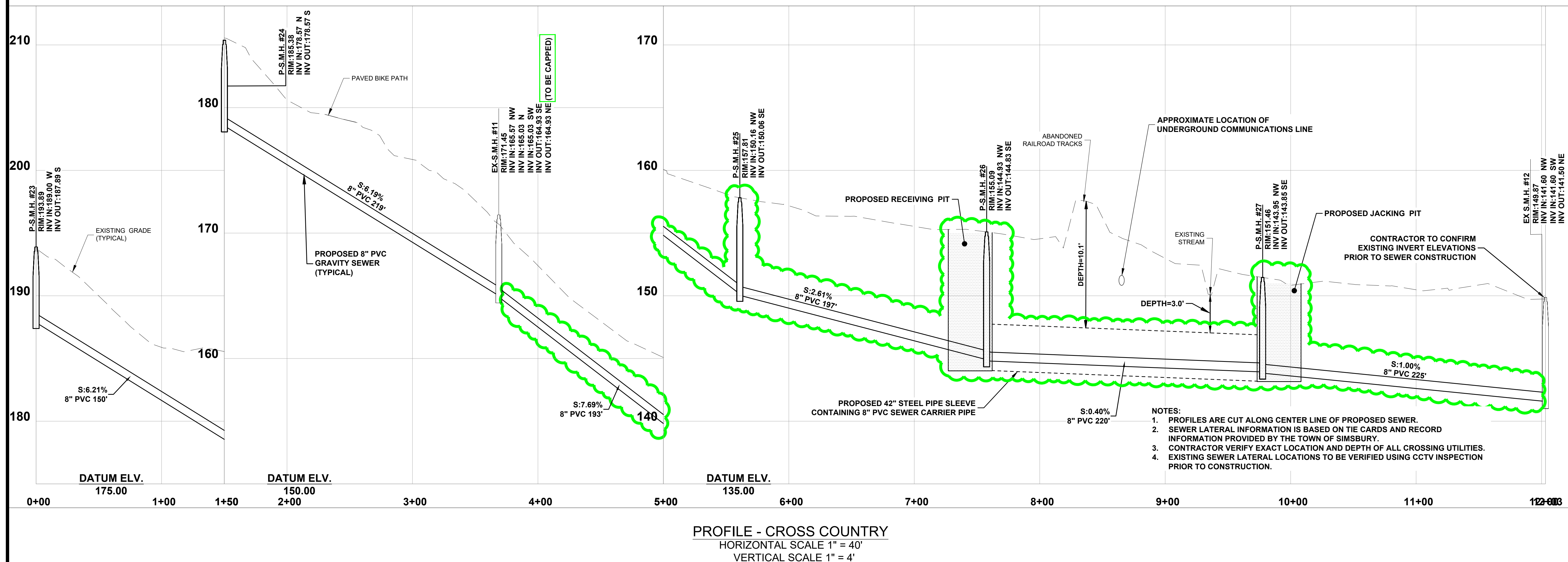
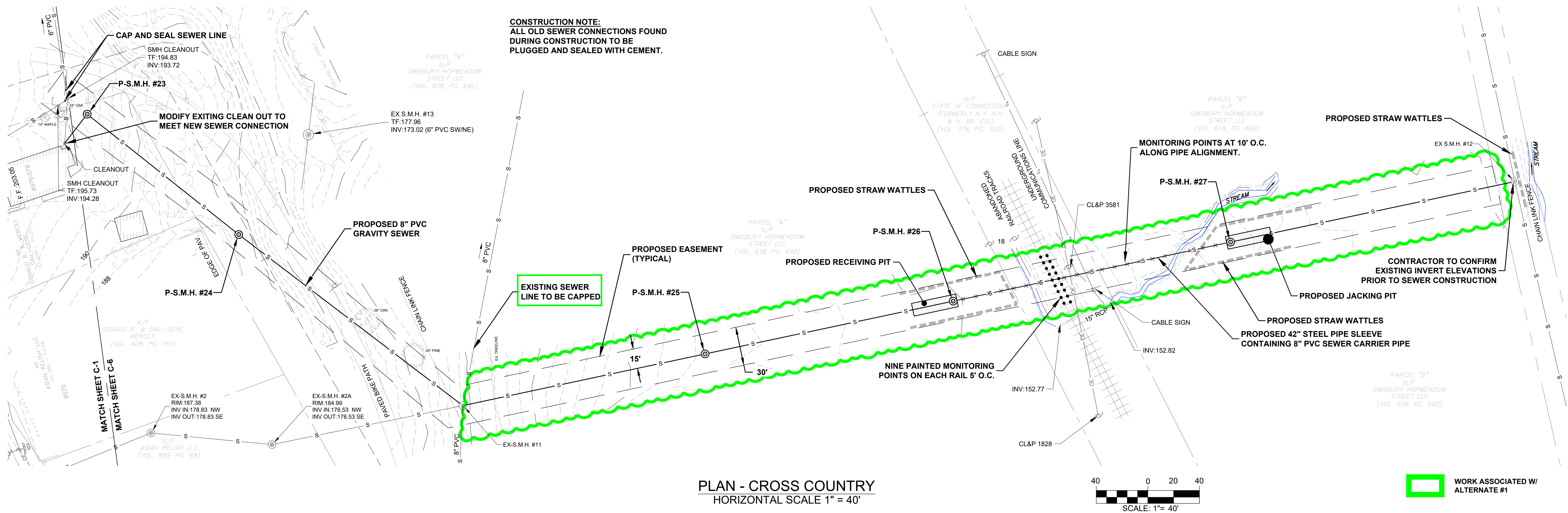
G-1

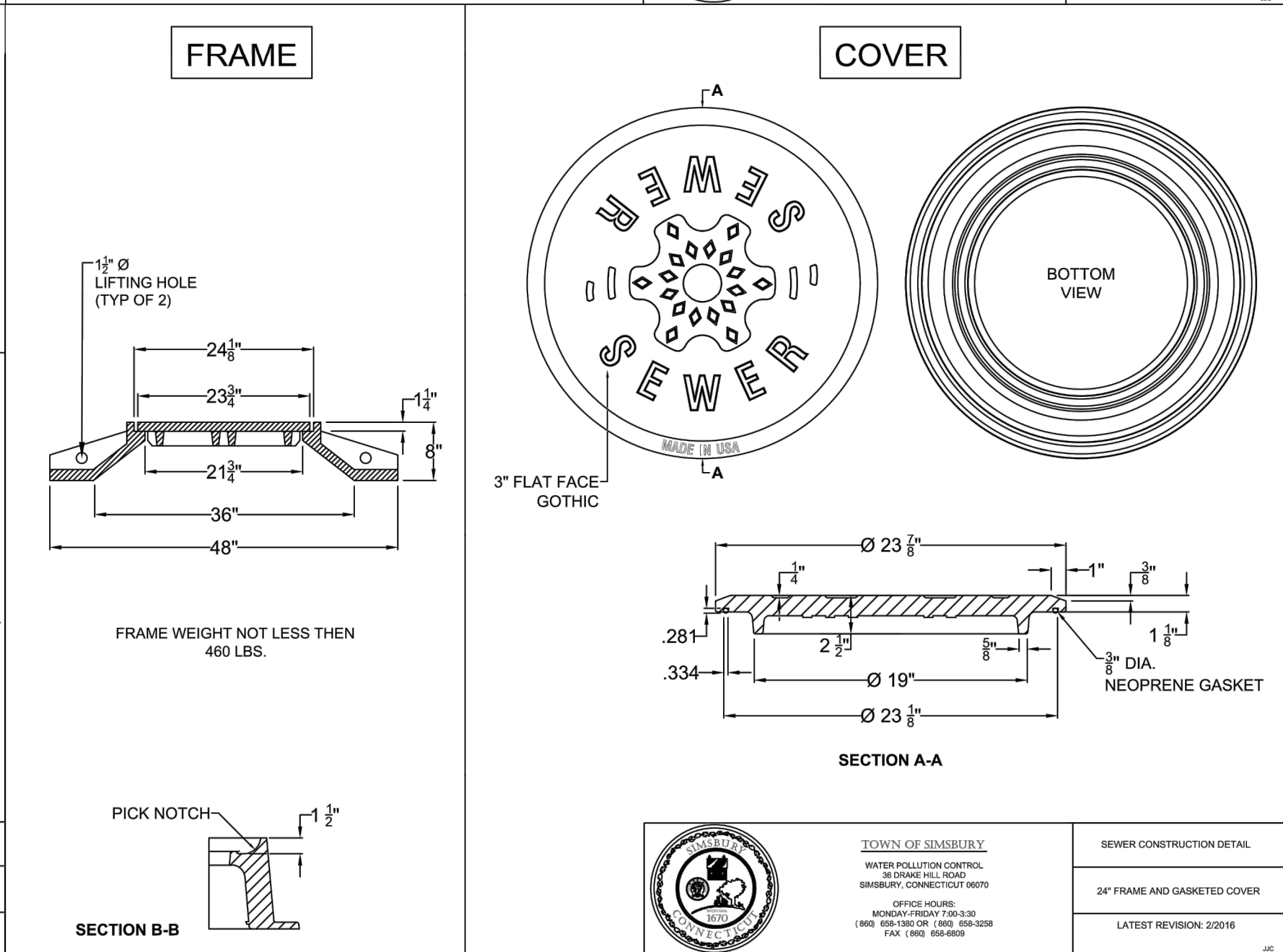
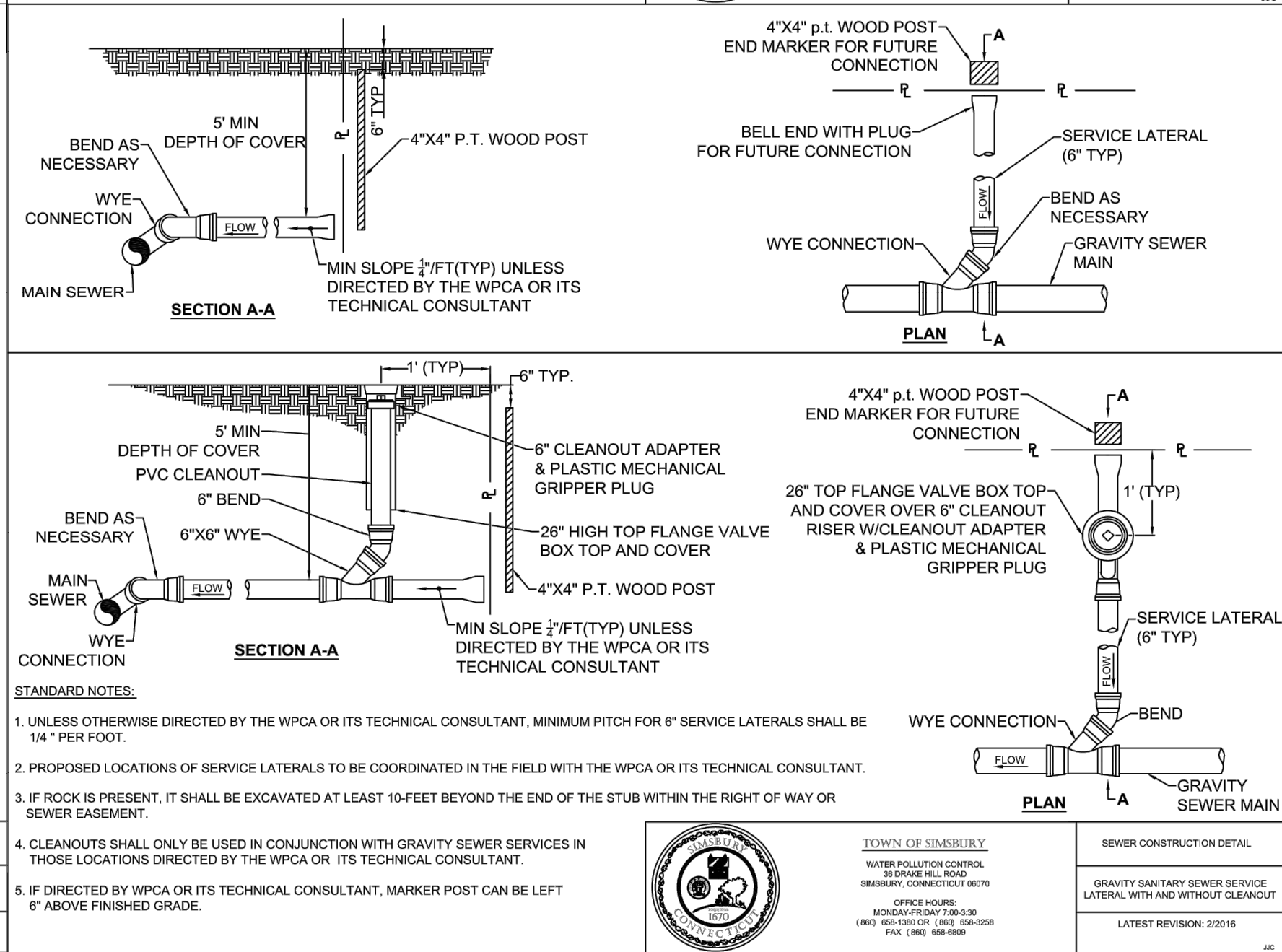
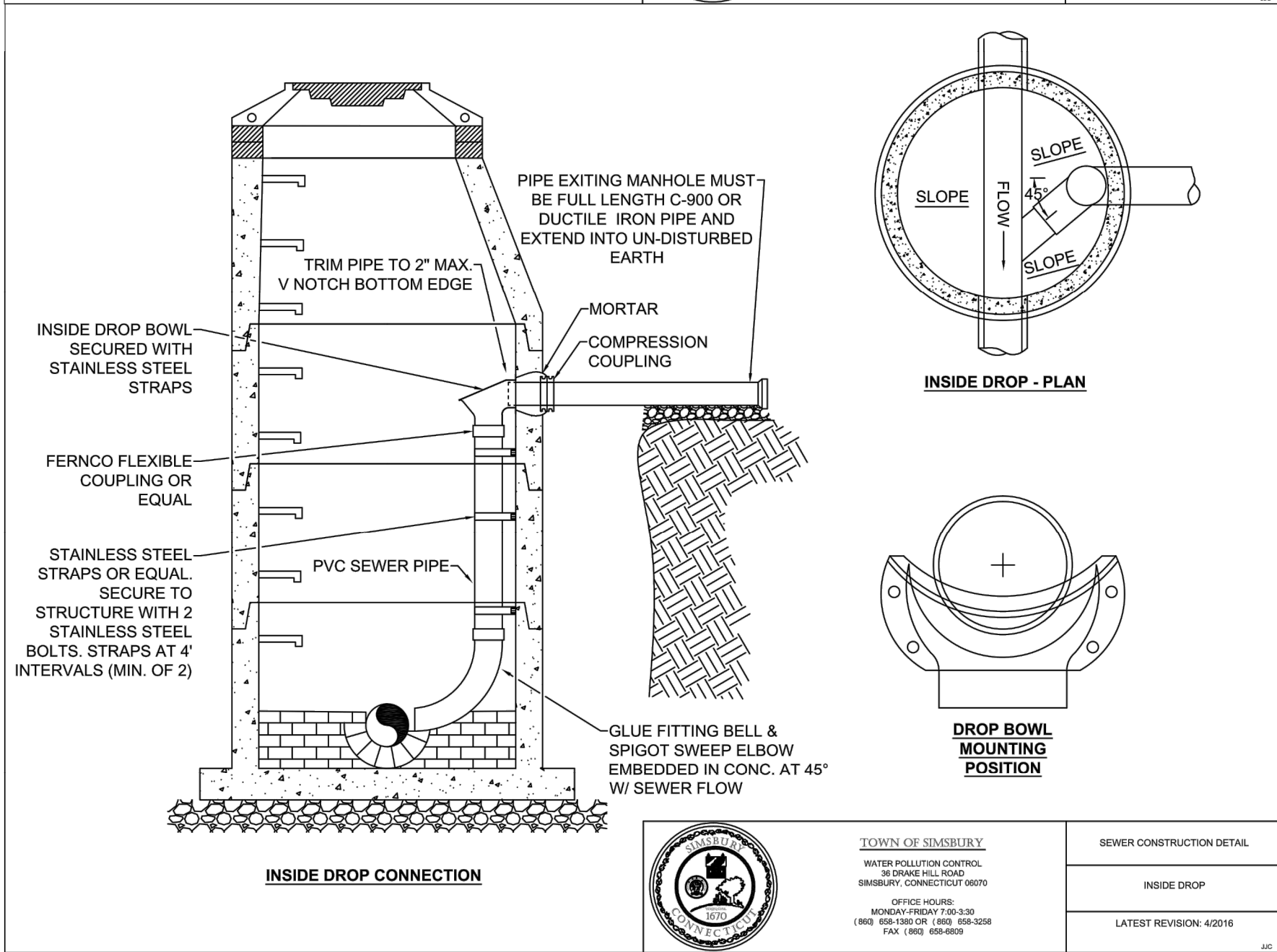
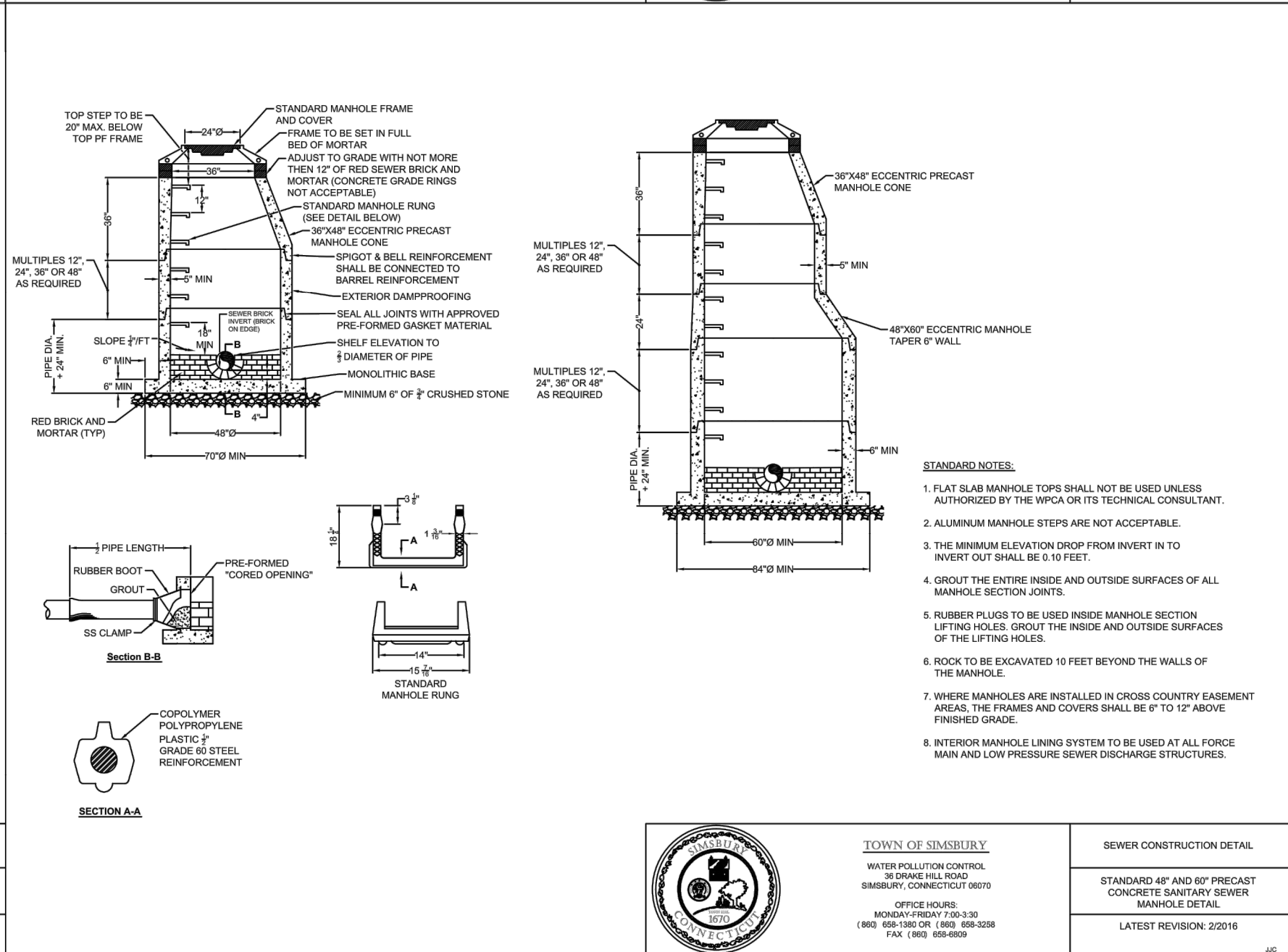
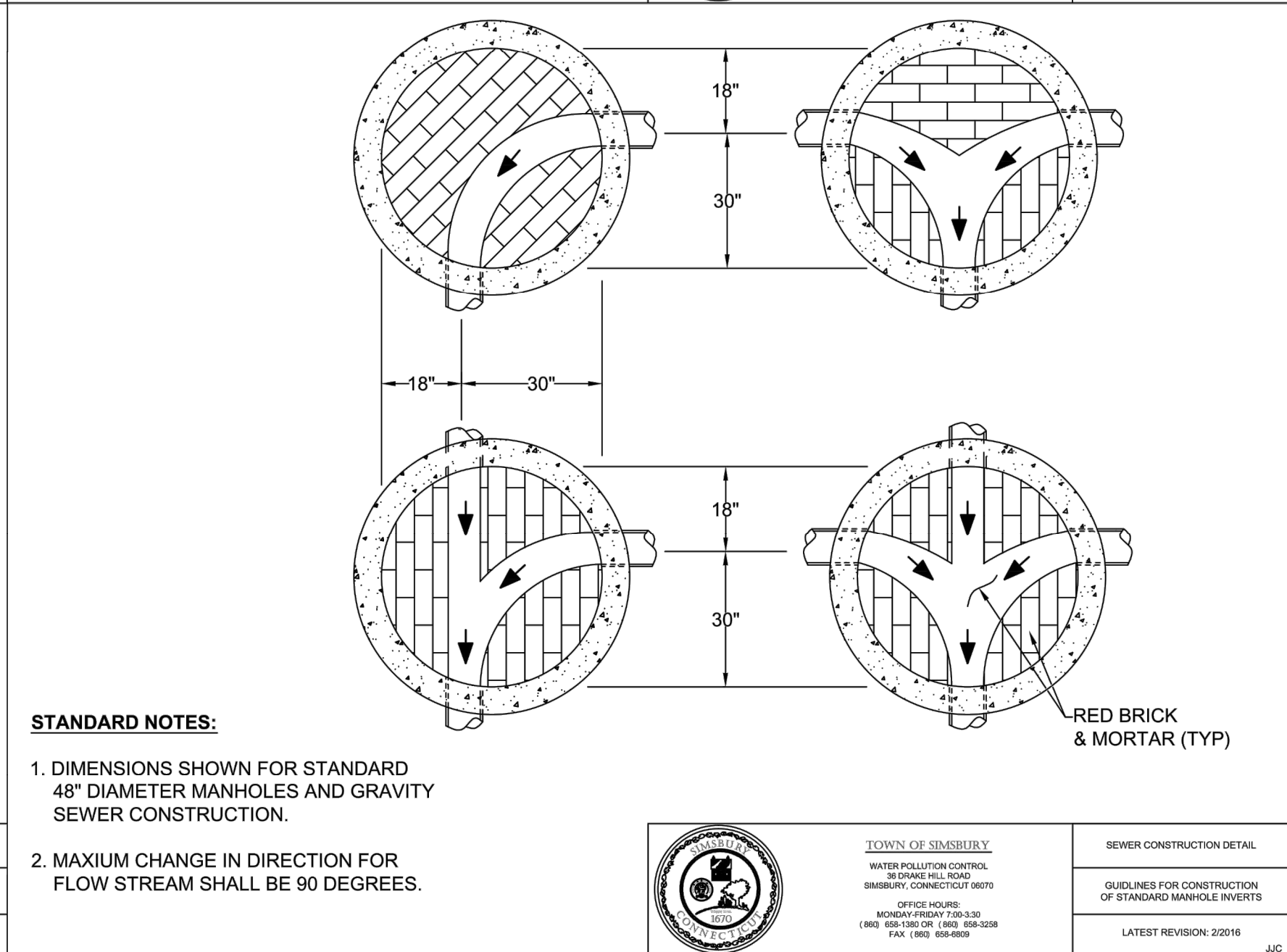
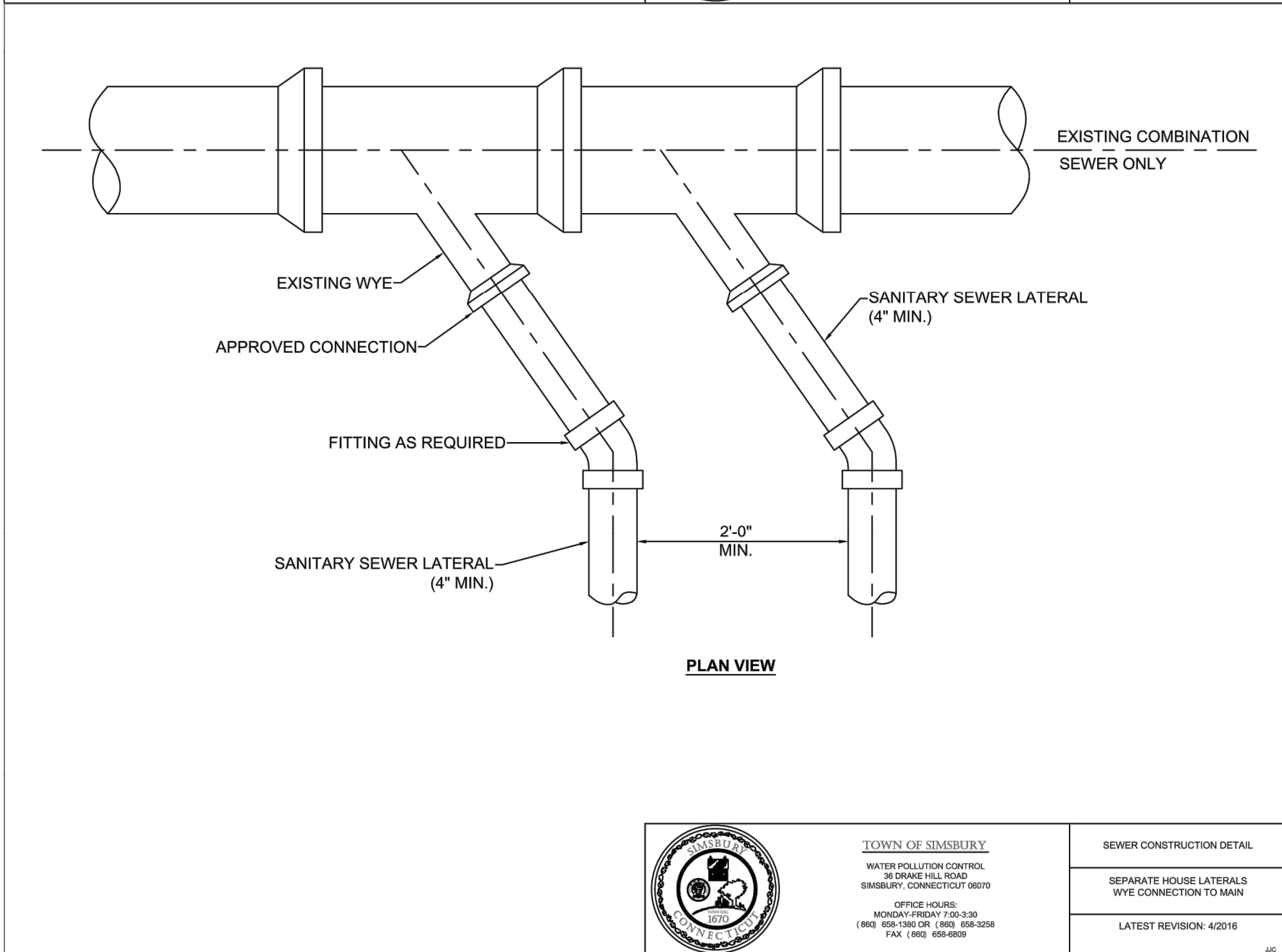
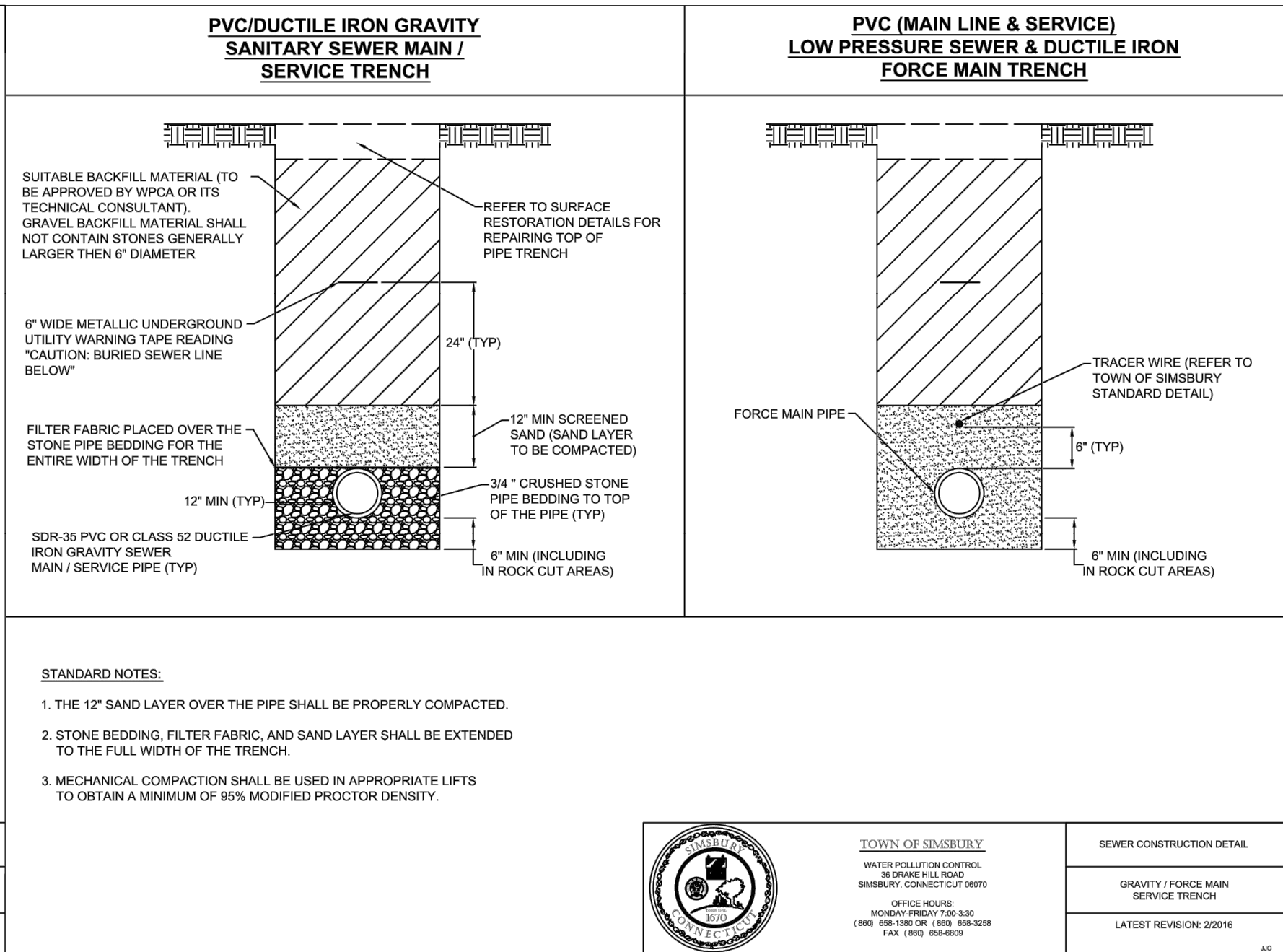
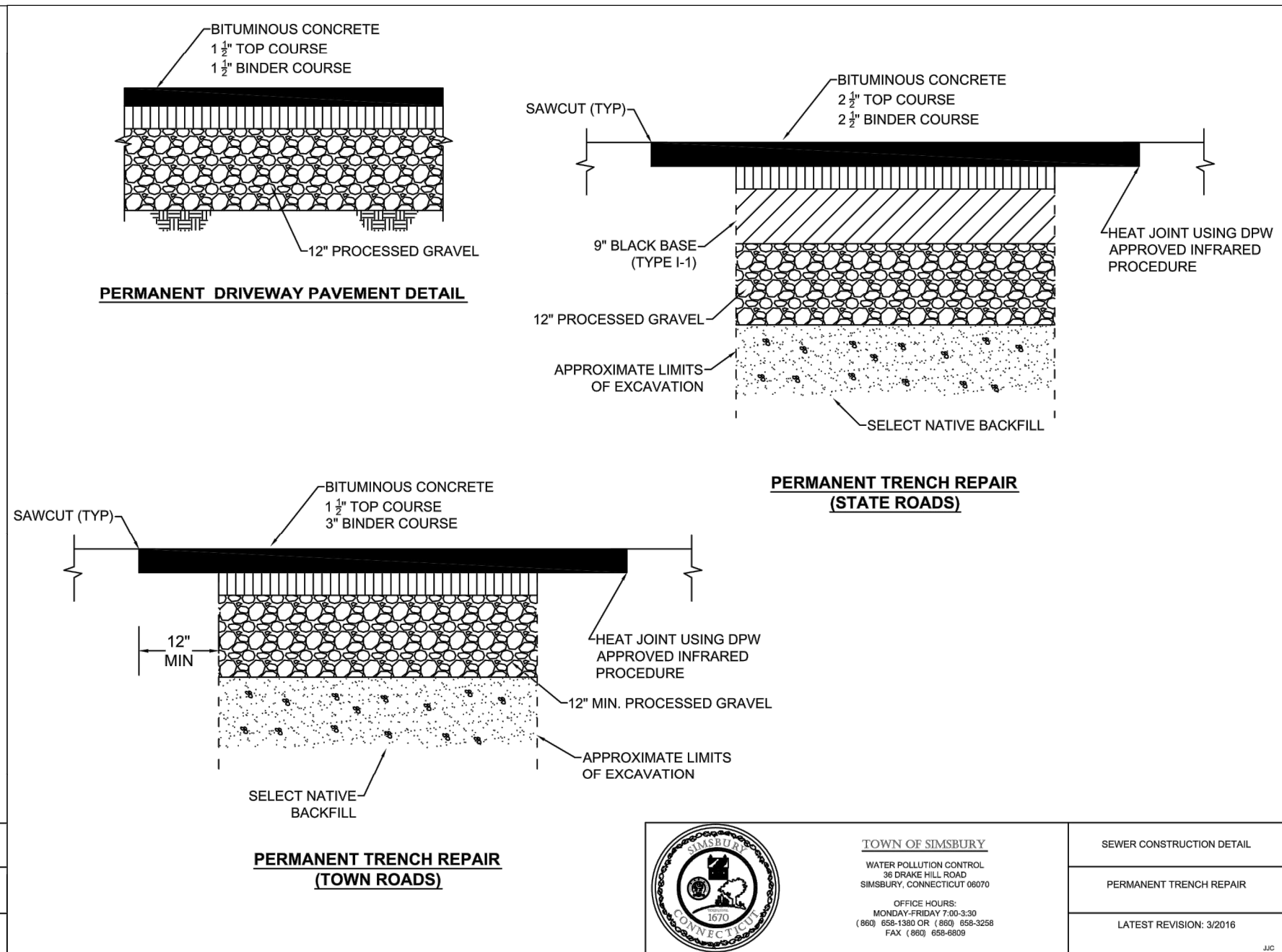
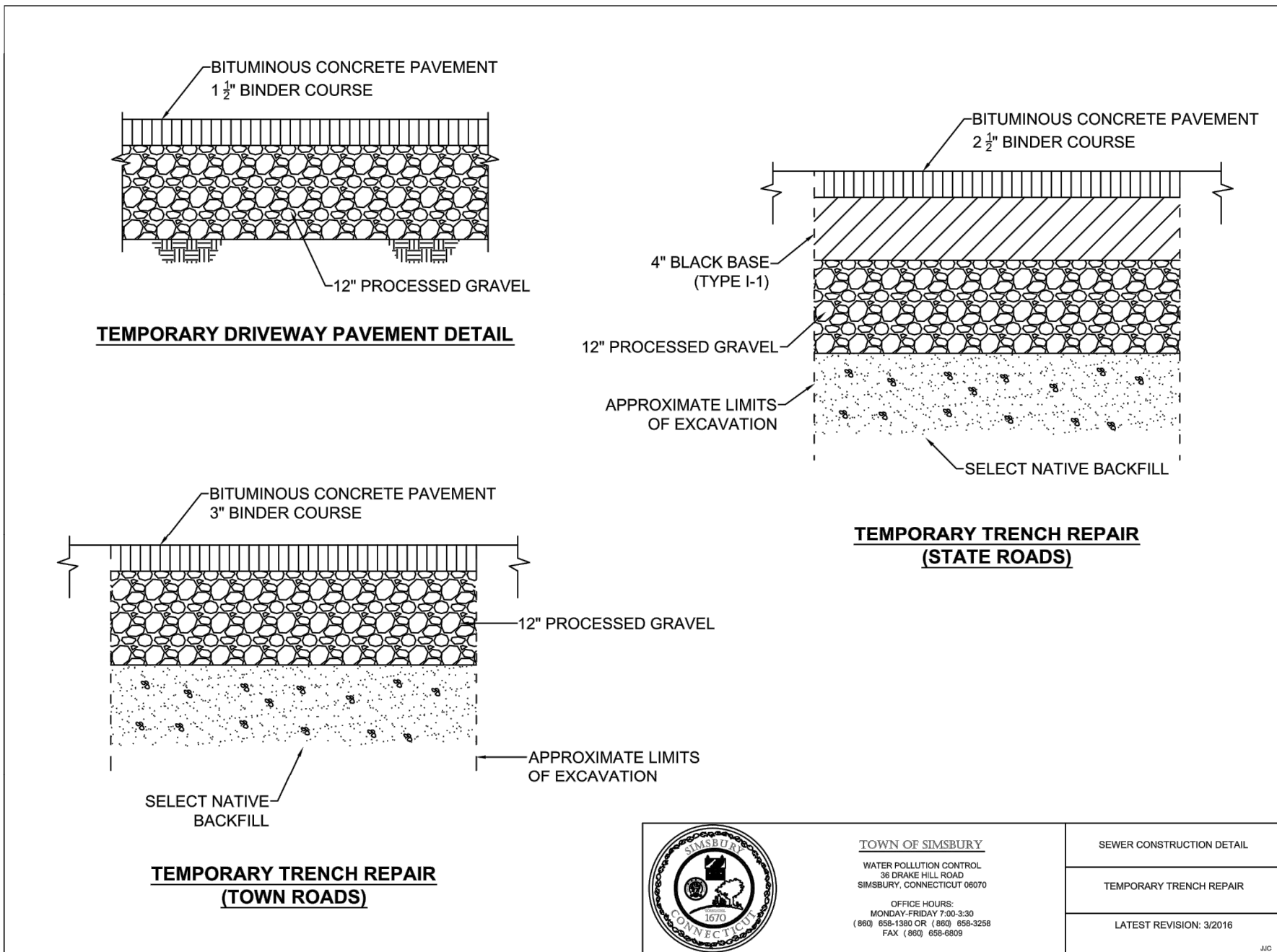


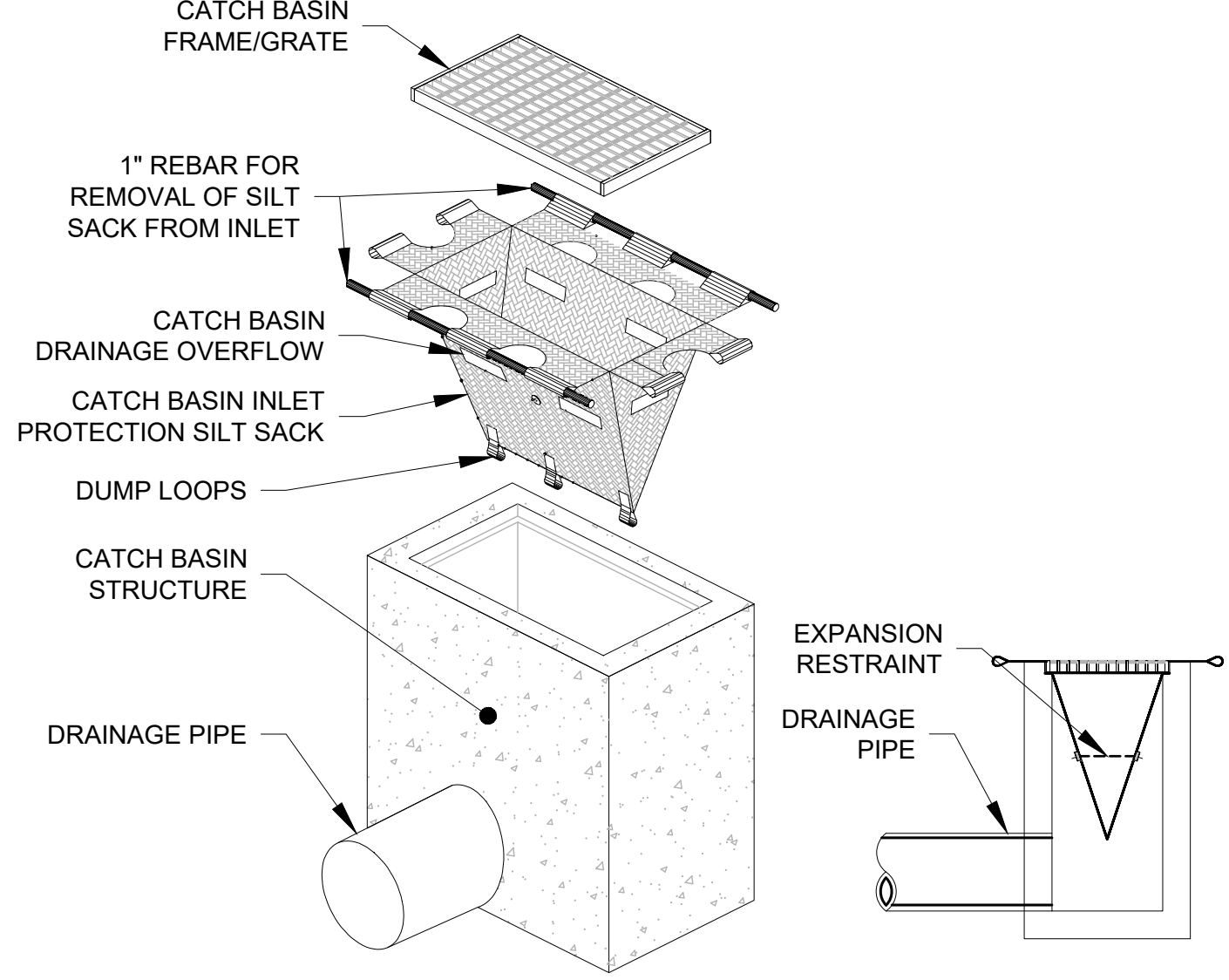
- NOTES:**
- 1. PROFILES ARE CUT ALONG CENTER LINE OF PROPOSED SEWER.**
 - 2. SEWER LATERAL INFORMATION IS BASED ON TIE CARDS AND RECORD INFORMATION PROVIDED BY THE TOWN OF SIMSBURY.**
 - 3. CONTRACTOR VERIFY EXACT LOCATION AND DEPTH OF ALL CROSSING UTILITIES.**
 - 4. EXISTING SEWER LATERAL LOCATIONS TO BE VERIFIED USING CCTV INSPECTION PRIOR TO CONSTRUCTION.**



- NOTES:**
- 1. PROFILES ARE CUT ALONG CENTER LINE OF PROPOSED SEWER.**
 - 2. SEWER LATERAL INFORMATION IS BASED ON THE CARDS AND RECORD INFORMATION PROVIDED BY THE TOWN OF SIMSBURY.**
 - 3. CONTRACTOR VERIFY EXACT LOCATION AND DEPTH OF ALL CROSSING UTILITIES.**
 - 4. EXISTING SEWER LATERAL LOCATIONS TO BE VERIFIED USING CCTV INSPECTION PRIOR TO CONSTRUCTION.**



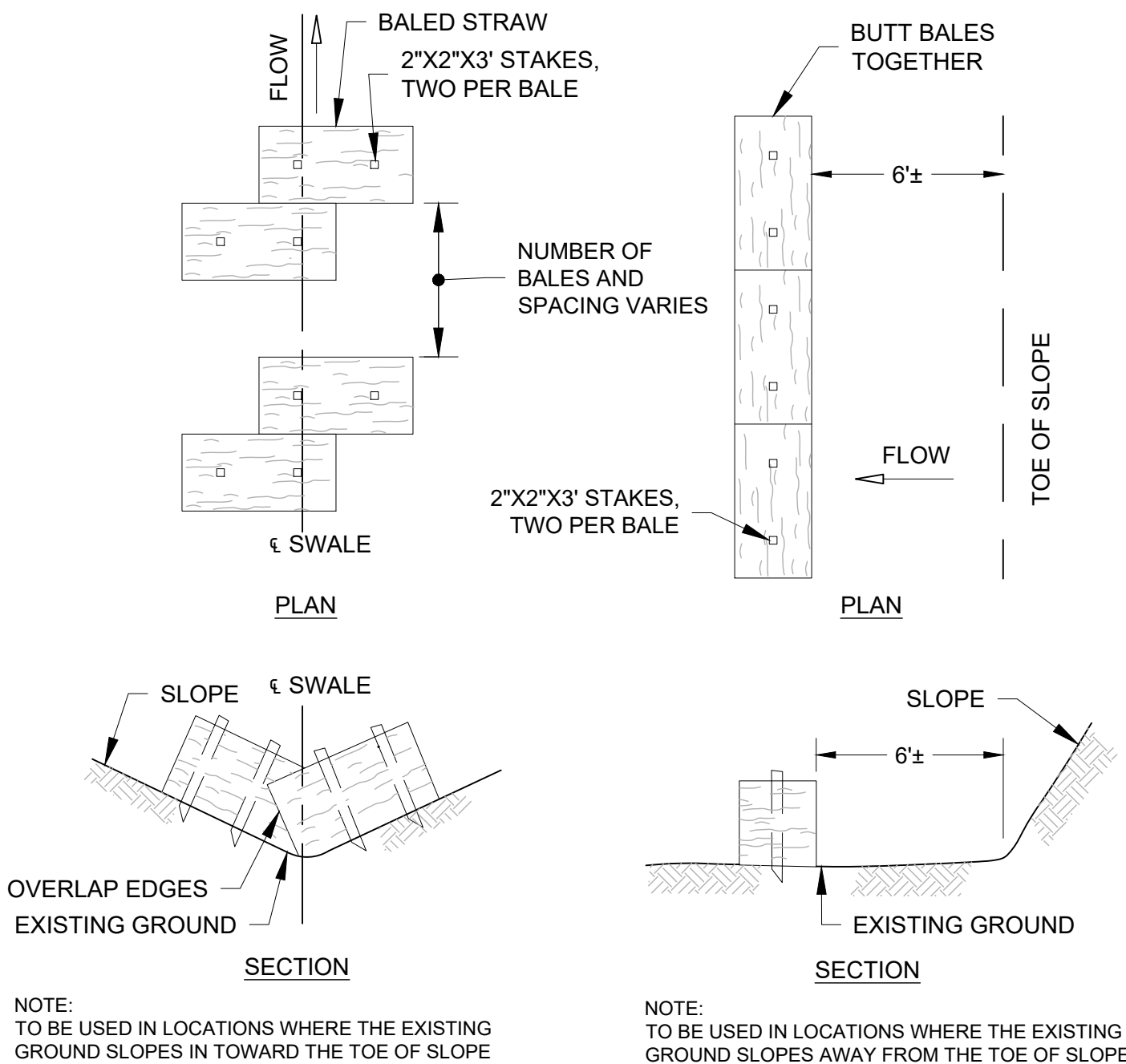




NOTES:
1. PROVIDE HI-FLOW SILT SACK TYPE A FOR TYPE "C-L" CATCH BASIN TOPS AND TYPE B WITH CURB DEFLECTOR FOR TYPE "C" CATCH BASIN TOPS OR OTHER STRUCTURES WITH CURB INLET.

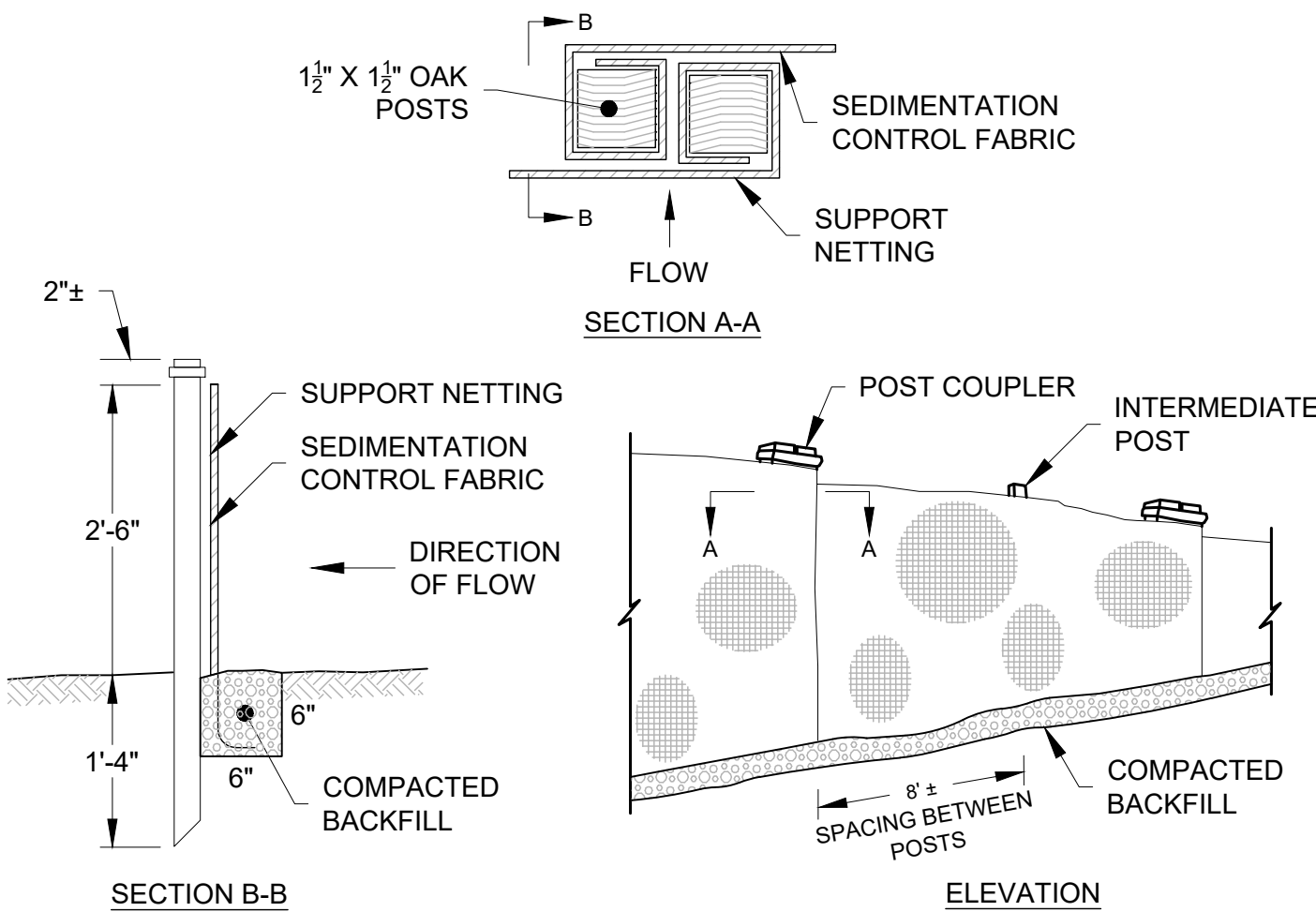
CATCH BASIN INLET PROTECTION

N.T.S.



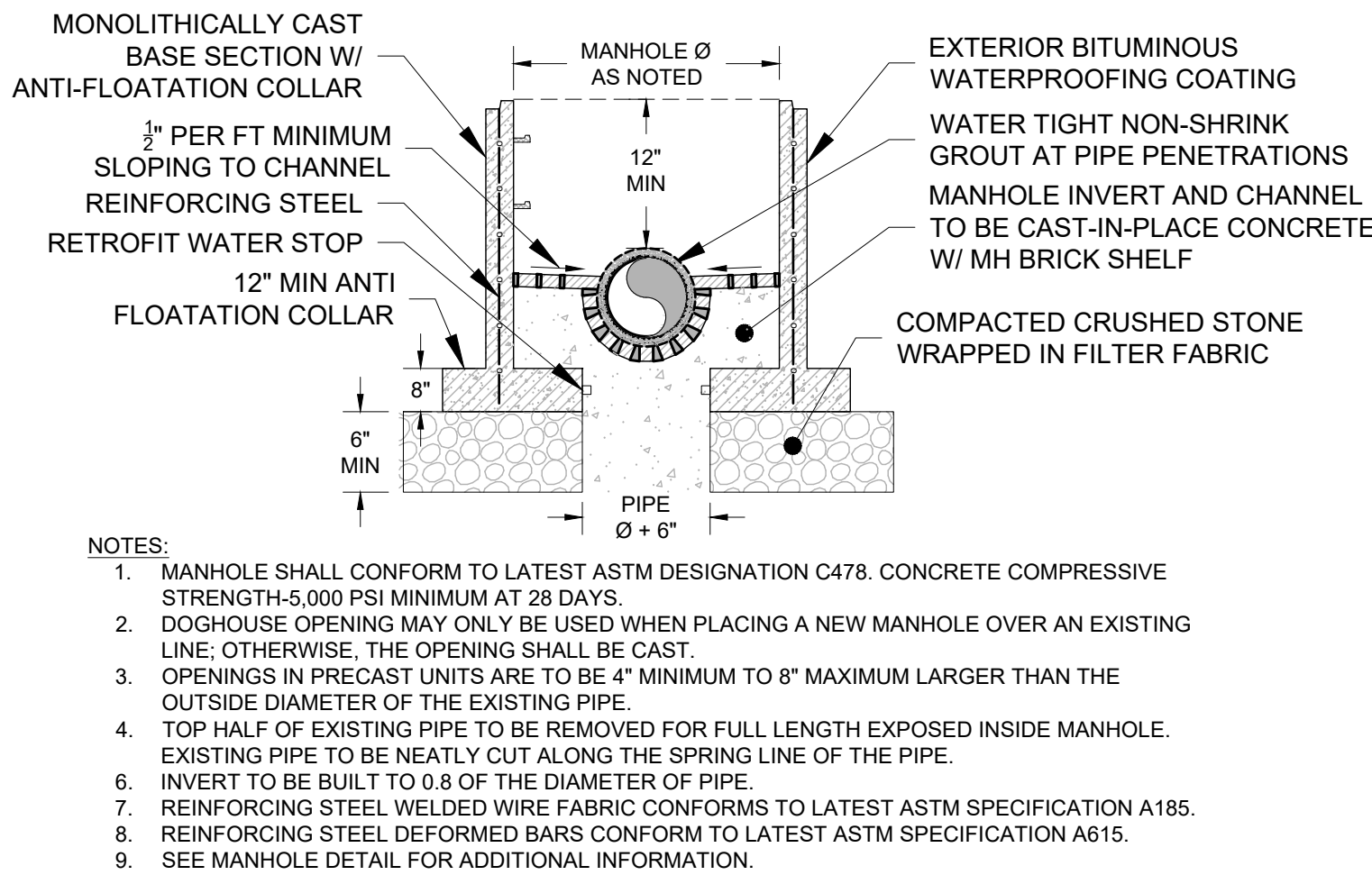
STRAW BALES DETAIL

N.T.S.



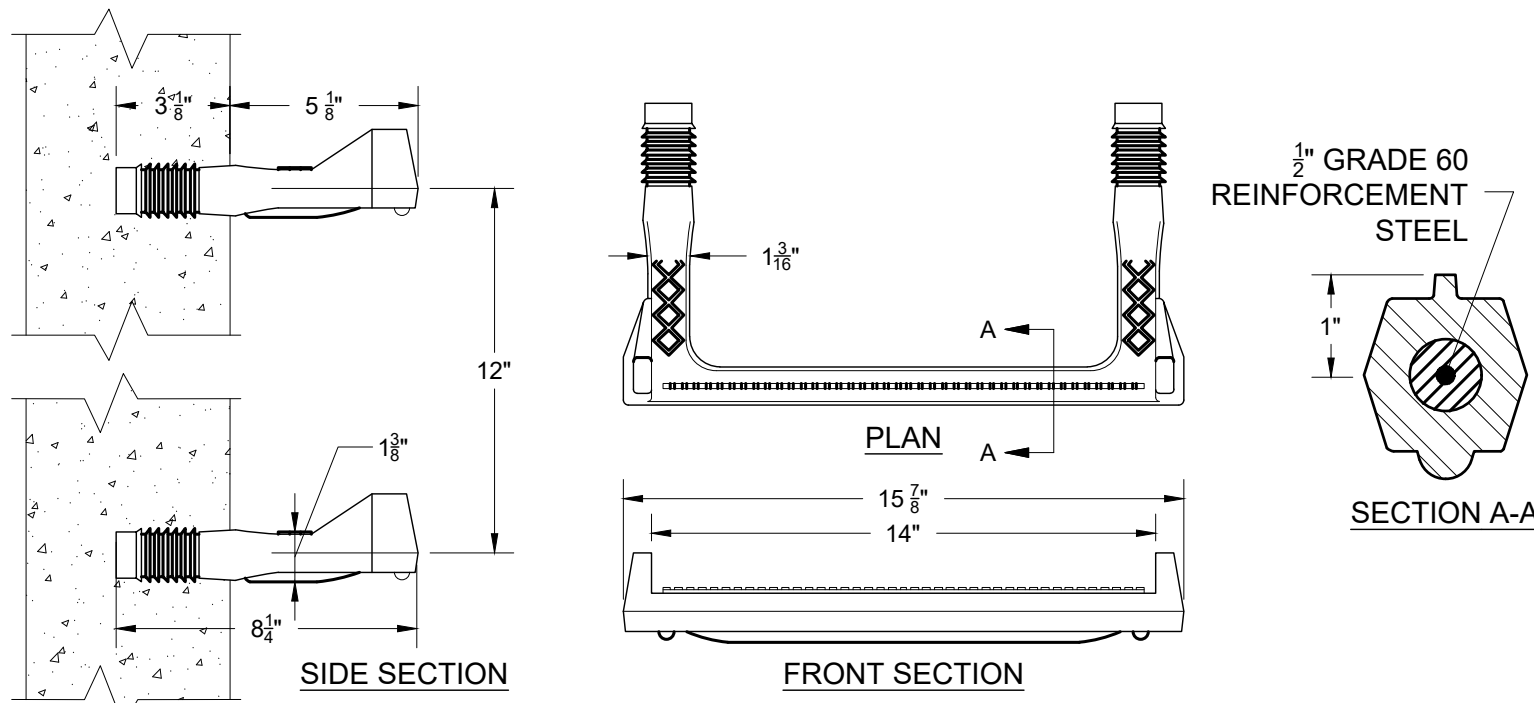
SILT FENCE DETAIL

N.T.S.



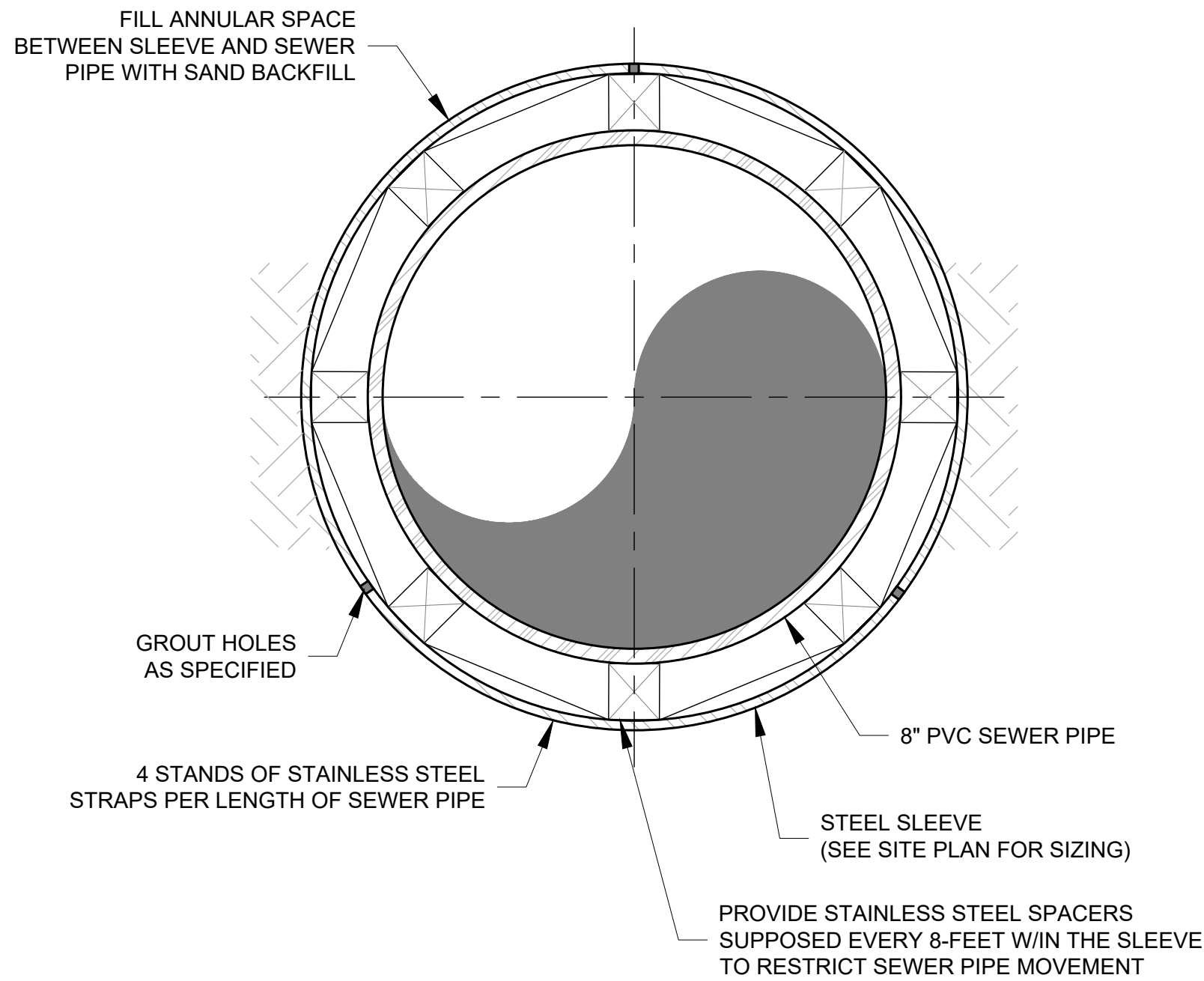
PRECAST DOGHOUSE MANHOLE BASE DETAIL

N.T.S.



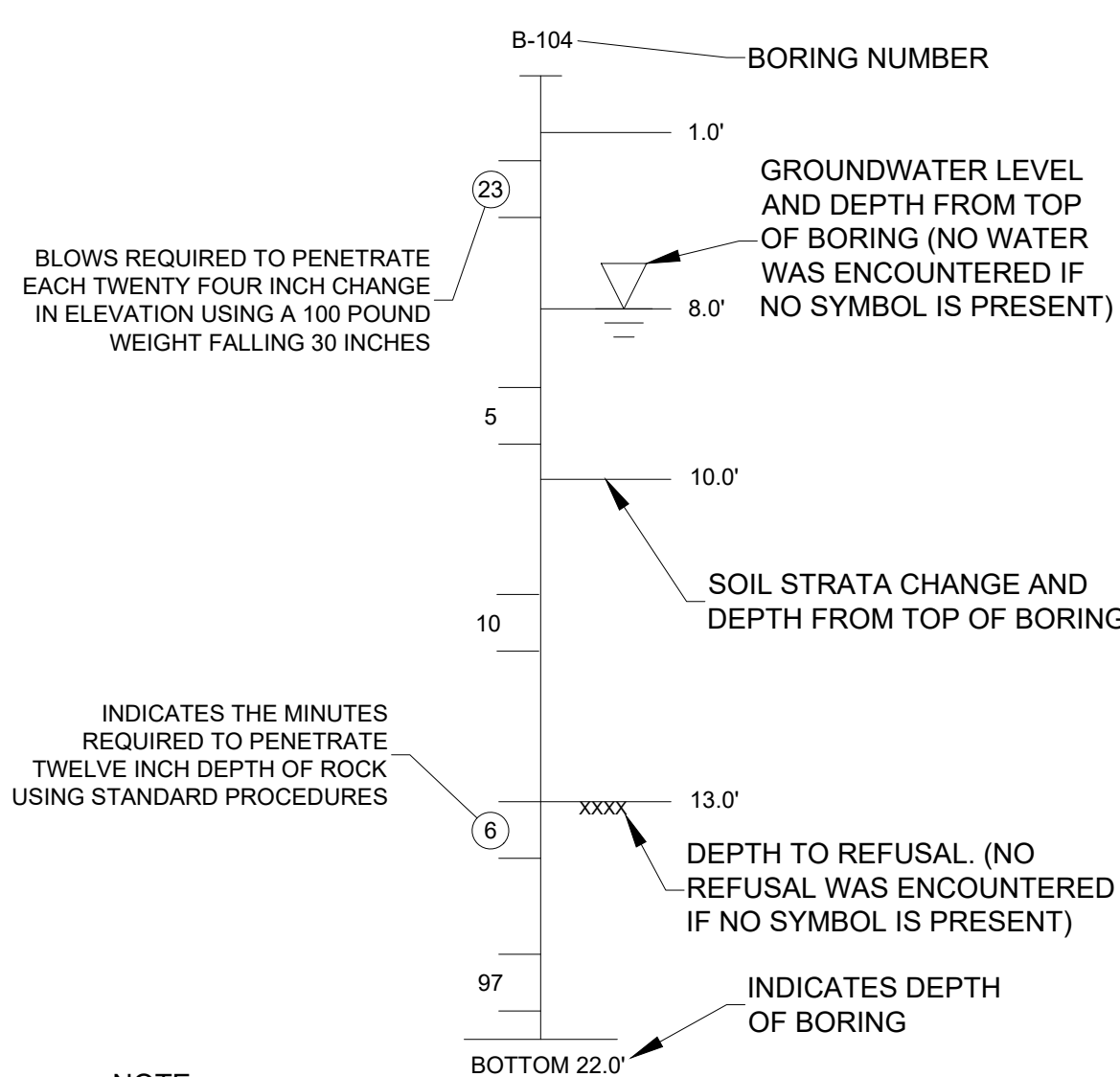
PLASTIC STEEL REINFORCED MANHOLE STEP DETAIL

N.T.S.



STANDARD JACKING PIPE CROSS SECTION

N.T.S.

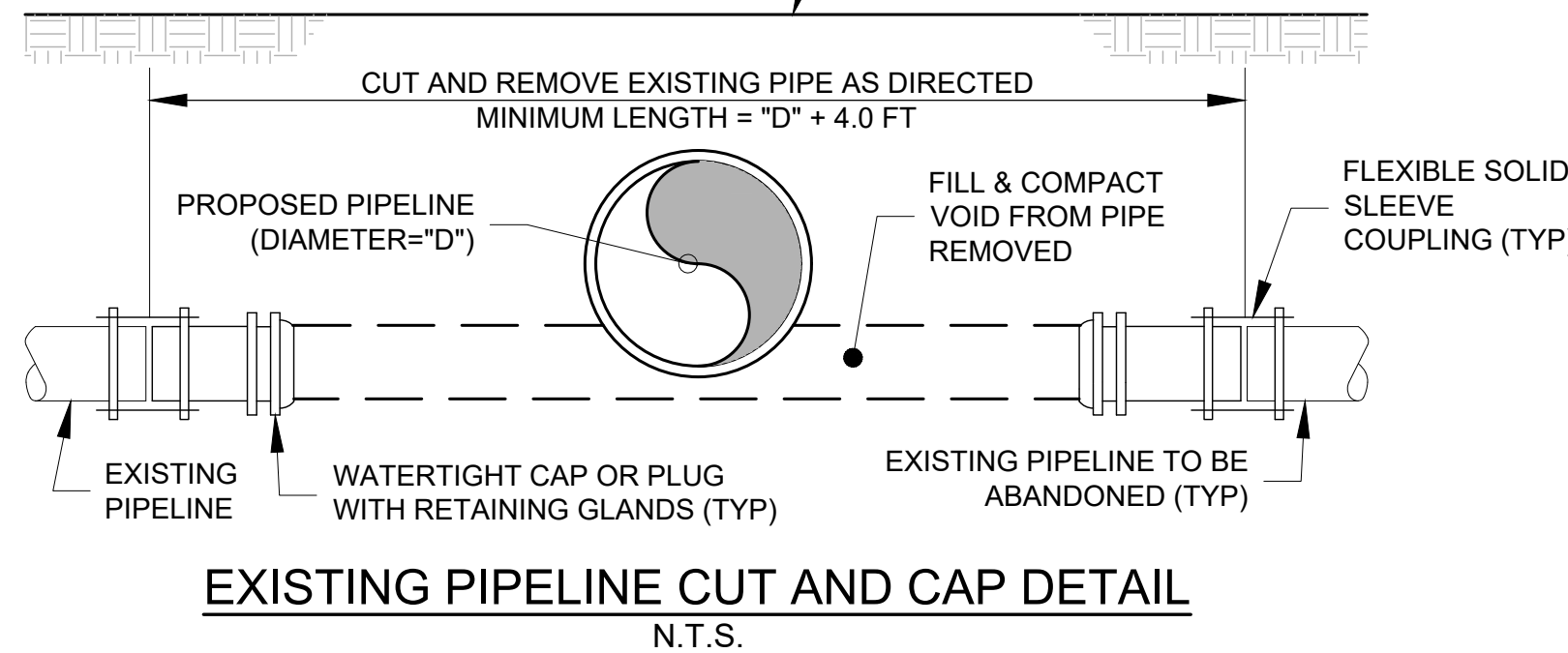


BORING LOG LEGEND

N.T.S.

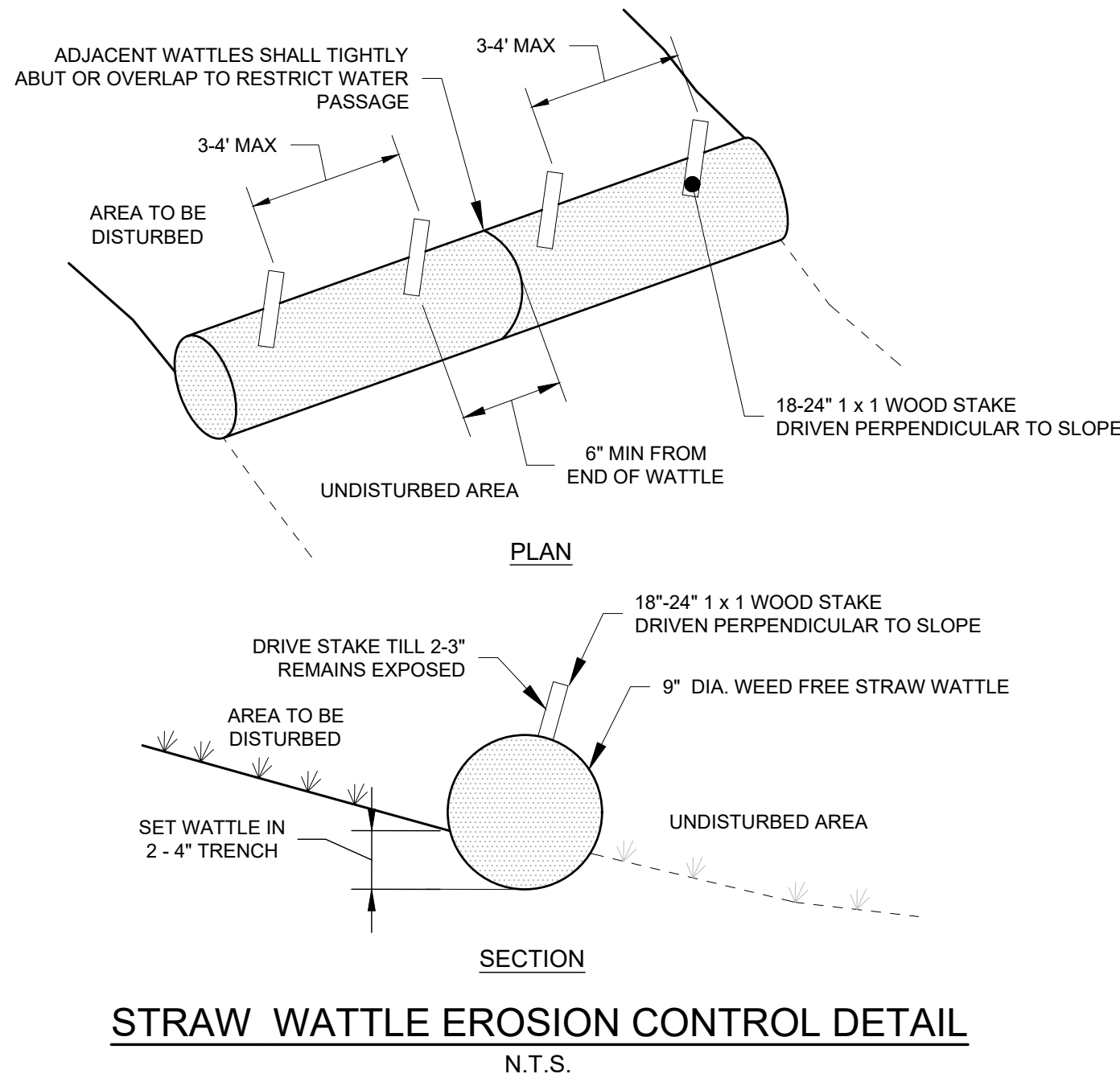
DEPTH TO PIPE INVERT	DIAMETER OF PIPE (DP)	MAXIMUM TRENCH WIDTH BELOW LINE OF NARROW TRENCH LIMIT (SHEETED OR UNSHEETED) (W)	MINIMUM CLEARANCE (S)
0-12'	TO 18"	5'	6"
0-12'	21"-24"	5'	12 "
OVER 12'	TO 18"	7'	12"
OVER 12'	21"-24"	7'	18 "

TABLE A FINISHED GRADE



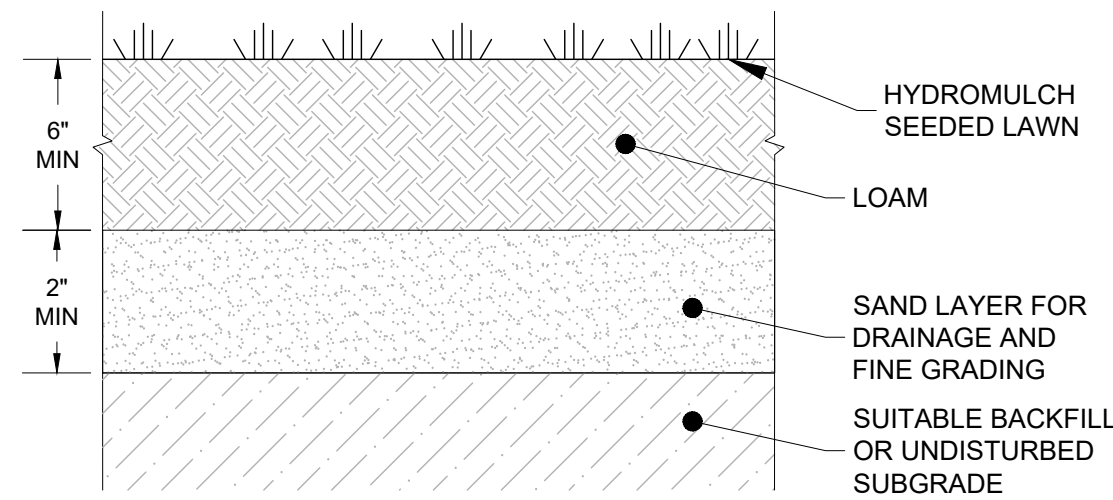
EXISTING PIPELINE CUT AND CAP DETAIL

N.T.S.

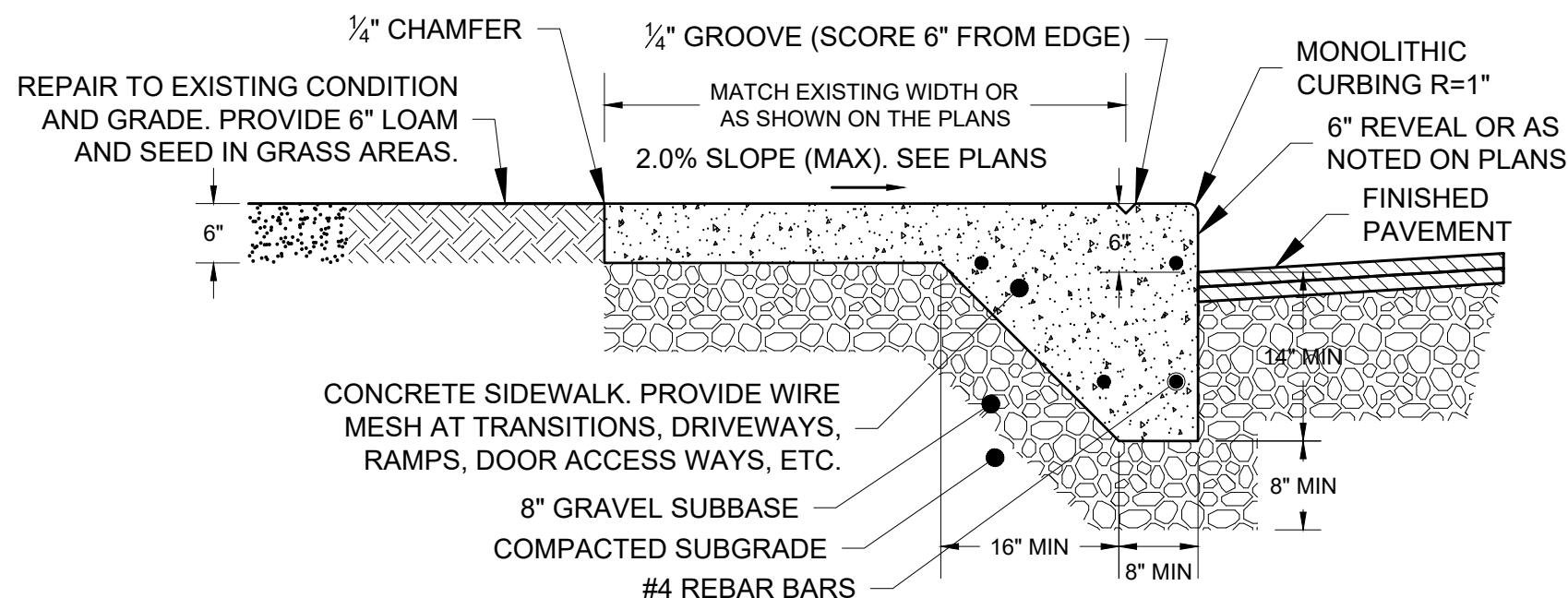
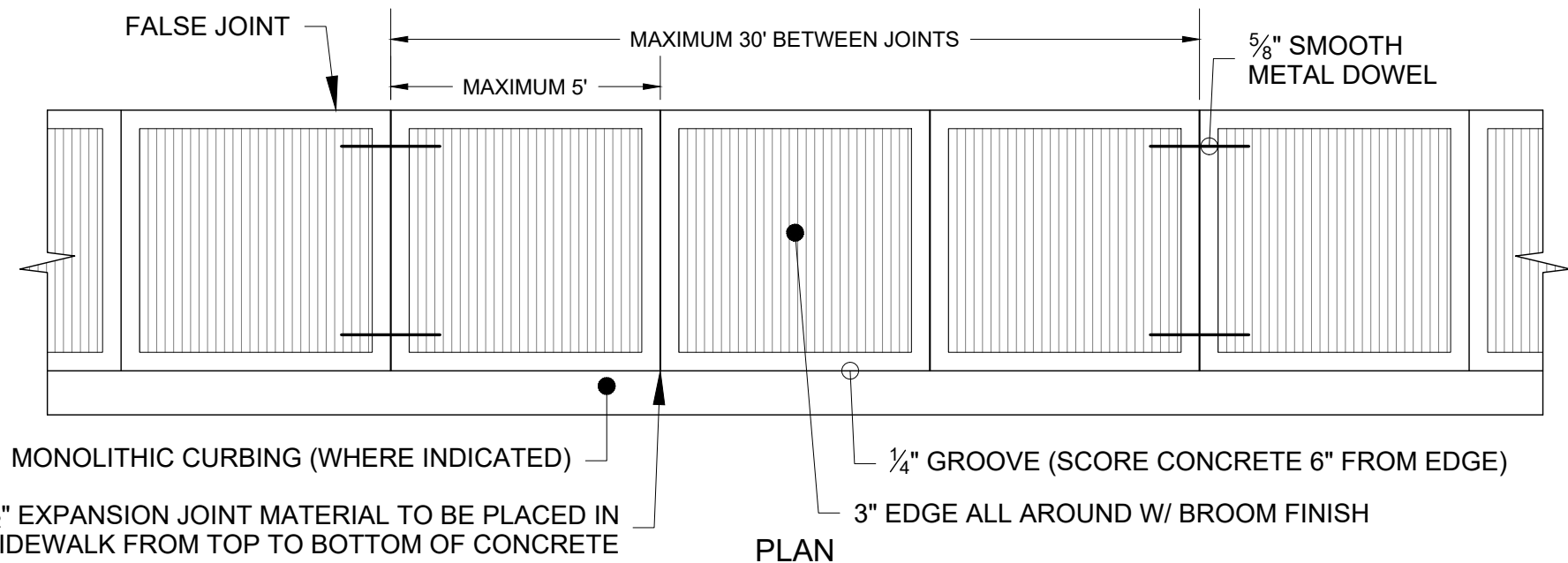


STRAW WATTLE EROSION CONTROL DETAIL

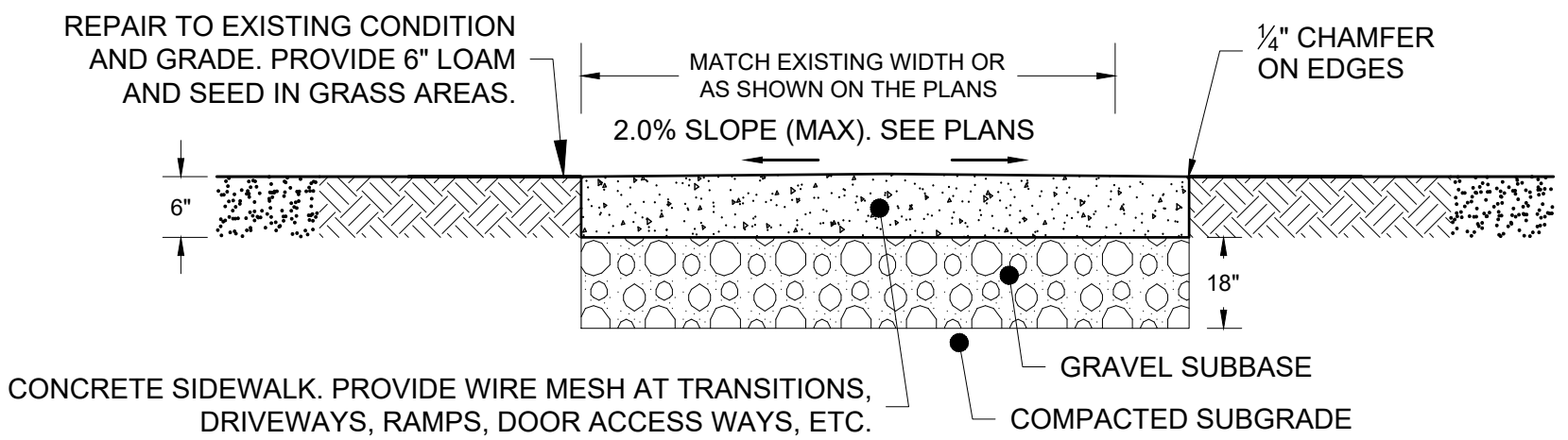
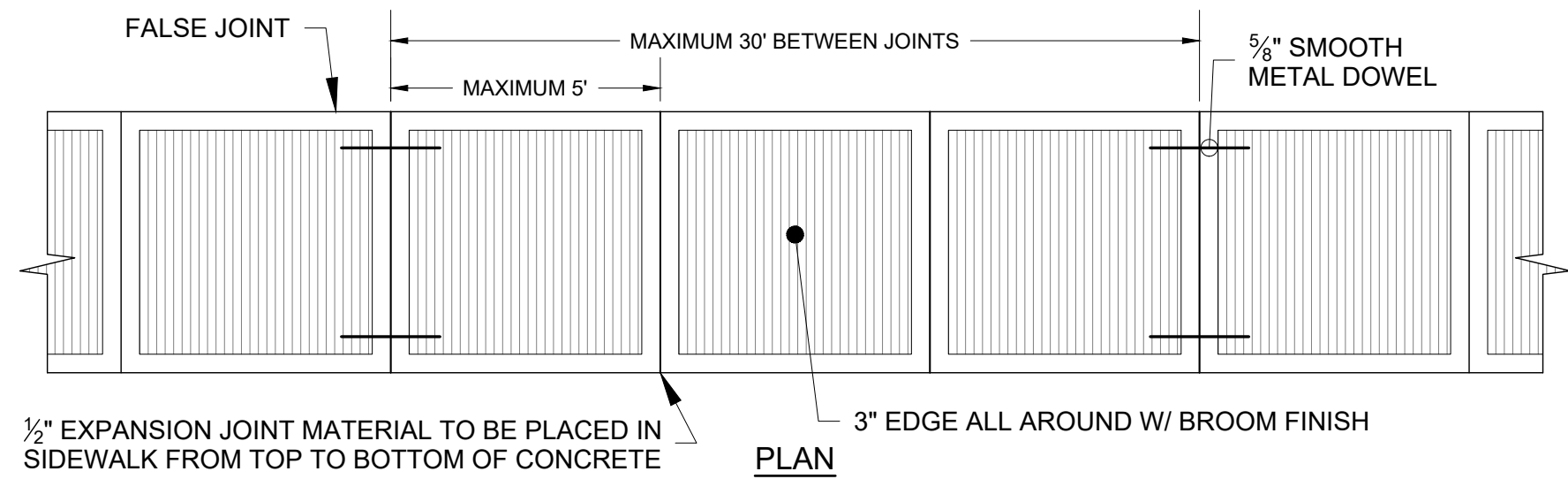
N.T.S.



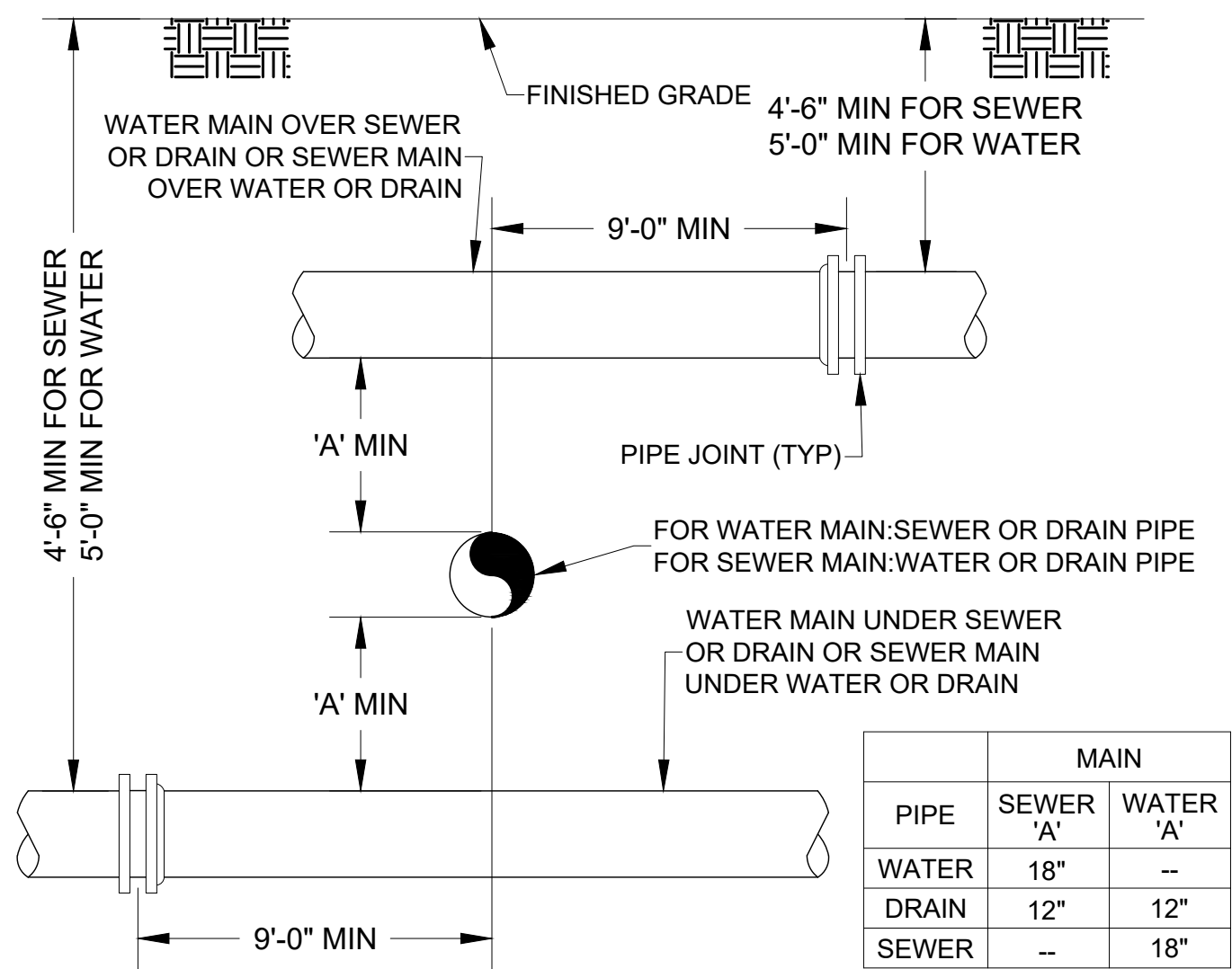
TYPICAL LOAM AND SEED DETAIL
N.T.S.



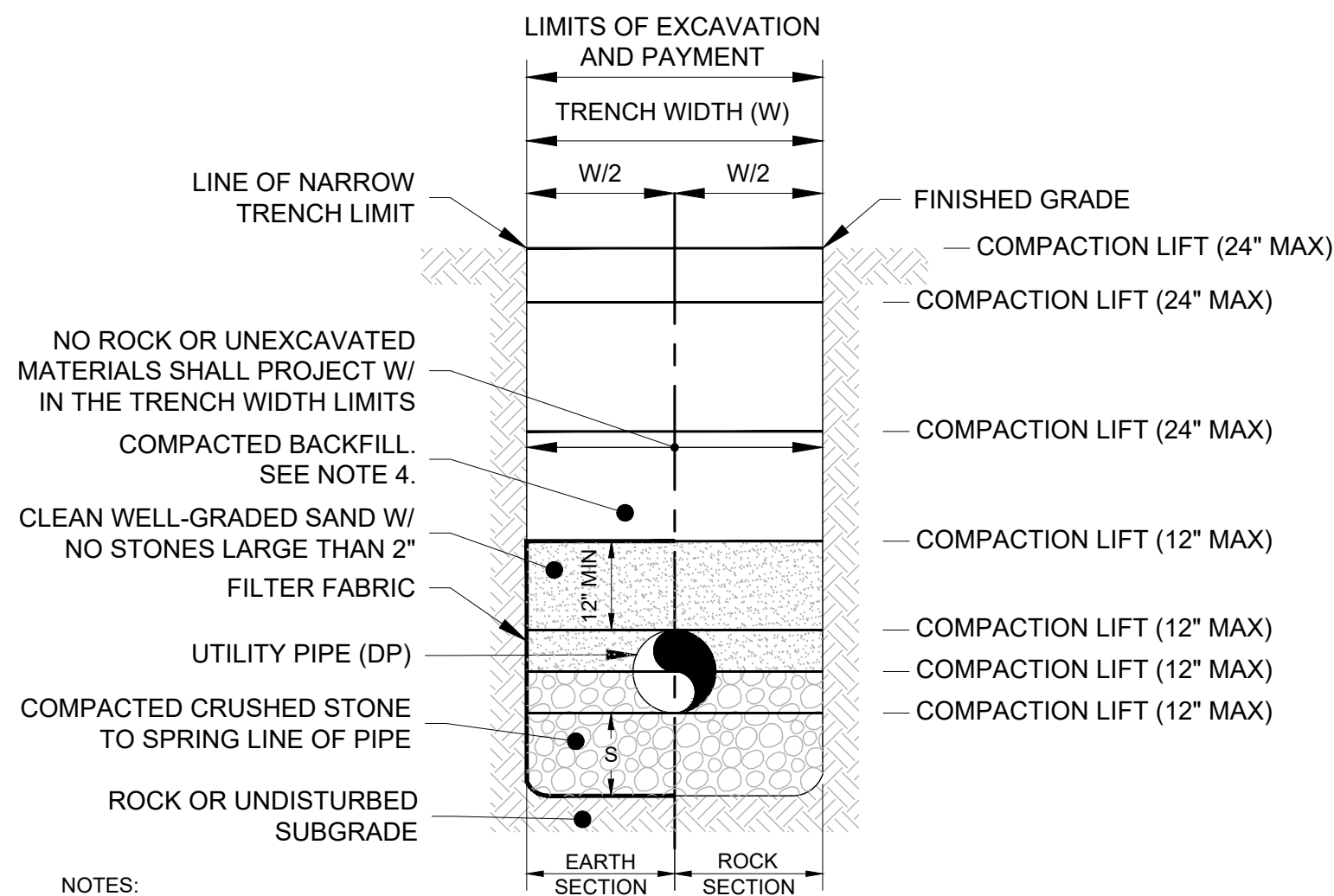
SECTION
CONCRETE SIDEWALK AND MONOLITHIC CURB DETAIL
N.T.S.



SECTION
CONCRETE SIDEWALK DETAIL
N.T.S.

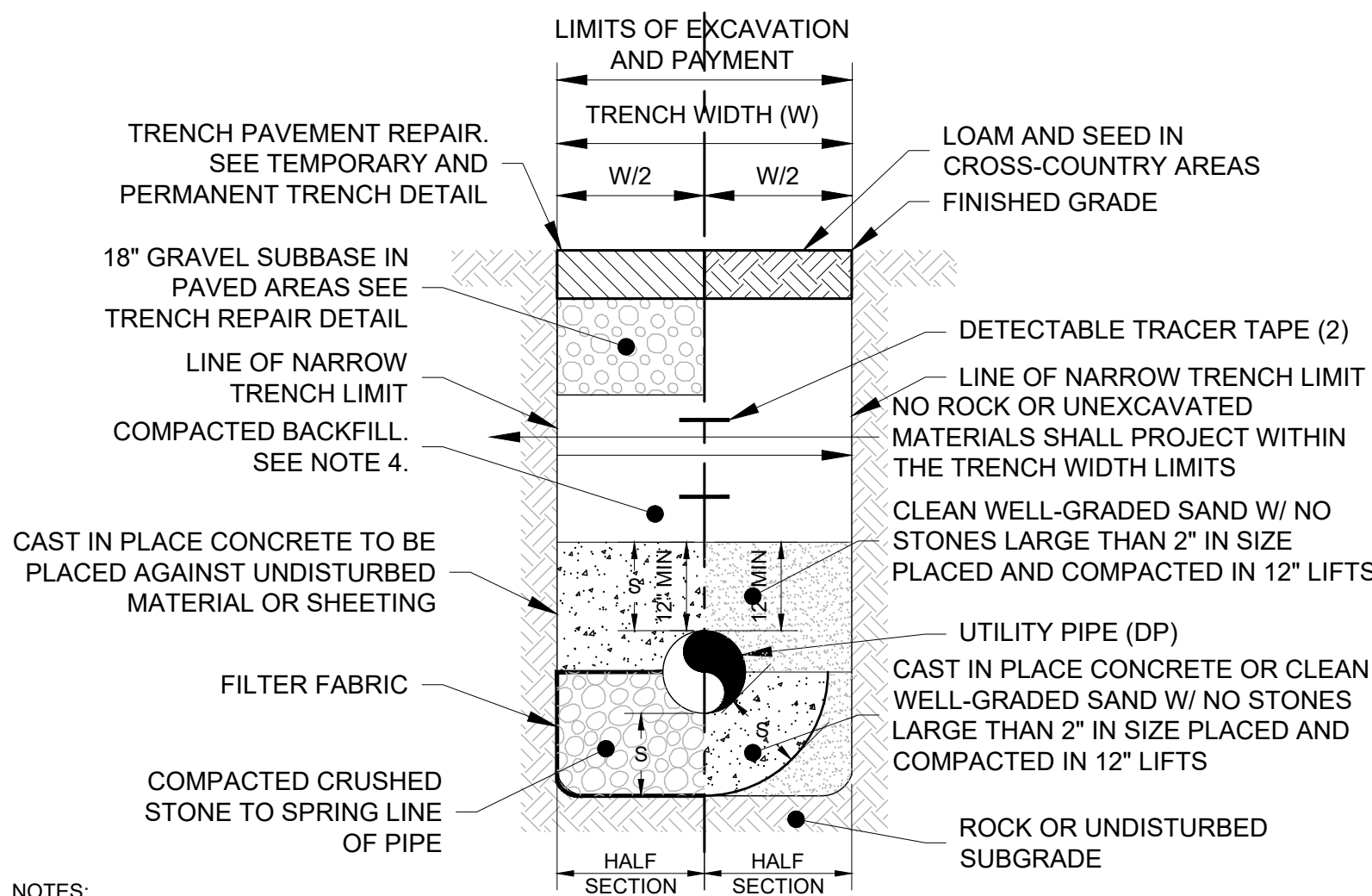


WATER, SEWER OR DRAIN CROSSING DETAIL
N.T.S.



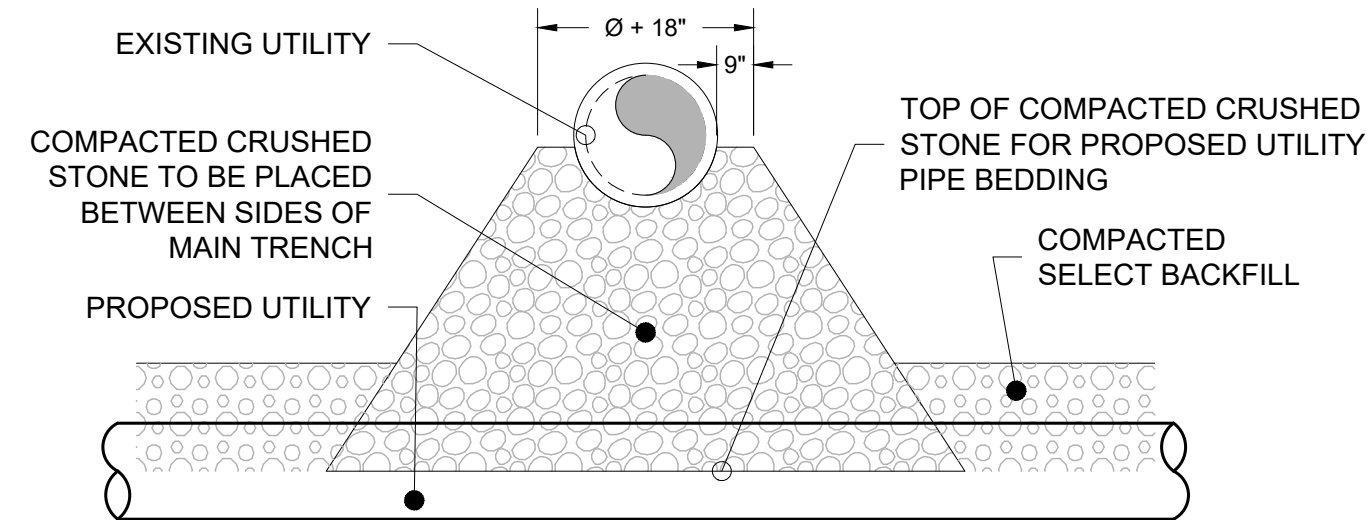
- NOTES:
1. SEE PLANS FOR PIPE SIZE AND TYPE.
 2. SEE PLANS, SPECIFICATION AND DETAILS FOR ADDITIONAL REQUIREMENTS.
 3. SEE TABLE A FOR W, DP AND S DIMENSIONS.
 4. BACKFILL W/ SUITABLE EXCAVATED MATERIAL OR SUBSTITUTE SUITABLE HAULED BACKFILL (AT NO ADDITIONAL COST). REMOVE ALL STONES GREATER THAN 6" IN SIZE. USE PLATE COMPACTOR FOR COMPACTION IN LIFTS NO GREATER THAN 24". COMPACTED BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% MAX DENSITY.

TRENCH COMPACTION DETAIL
N.T.S.

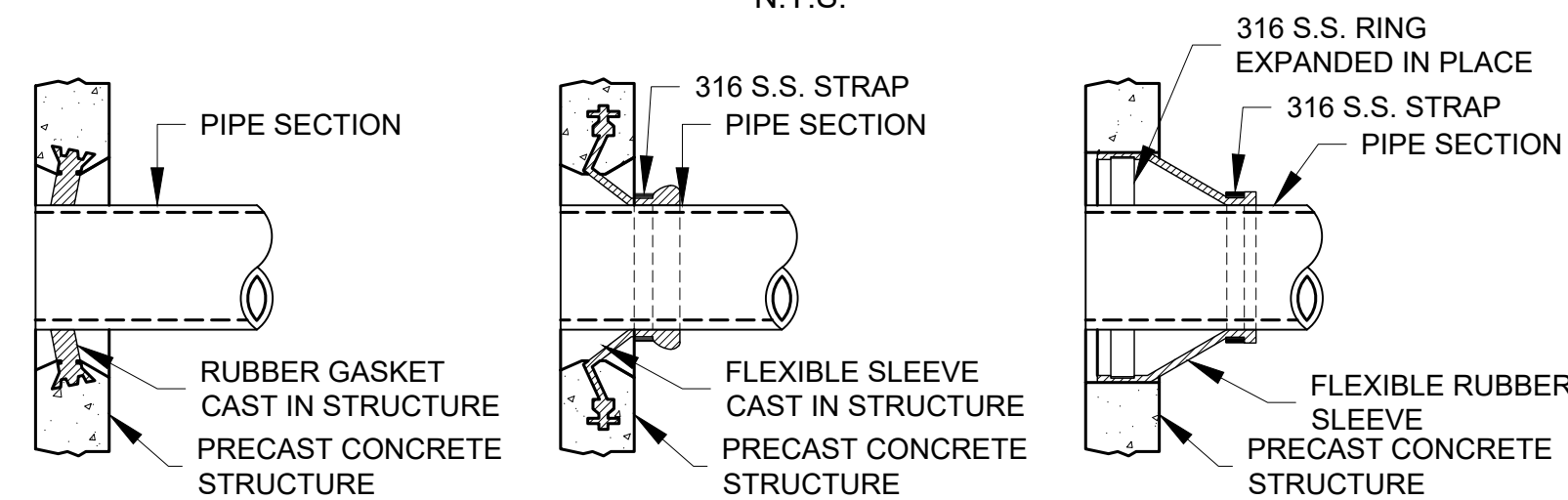


- NOTES:
1. SEE PLANS FOR PIPE SIZE AND TYPE.
 2. SEE PLANS AND SPECIFICATION FOR RESTORATION LOCATIONS AND DETAILS.
 3. IF CONCRETE ENCASEMENT IS REQUIRED, CONCRETE OF MINIMUM THICKNESS 'S' SHALL BE PLACED ALL AROUND PIPE.
 4. BACKFILL W/ SUITABLE EXCAVATED MATERIAL OR SUBSTITUTE SUITABLE HAULED BACKFILL. REMOVE ALL STONES GREATER THAN 6" IN SIZE. USE PLATE COMPACTOR FOR COMPACTION IN LIFTS NO GREATER THAN 24". COMPACTED BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% MAX DENSITY.
 5. WHERE REQUIRED FILTER FABRIC SHALL BE PLACED AGAINST UNDISTURBED MATERIAL
 6. SEE TABLE A FOR W, DP AND S DIMENSIONS.

CONCRETE ARCH AND CRADLE DETAIL
N.T.S.



UTILITY CROSSING DETAIL
N.T.S.



MANHOLE SEAL DETAILS
N.T.S.

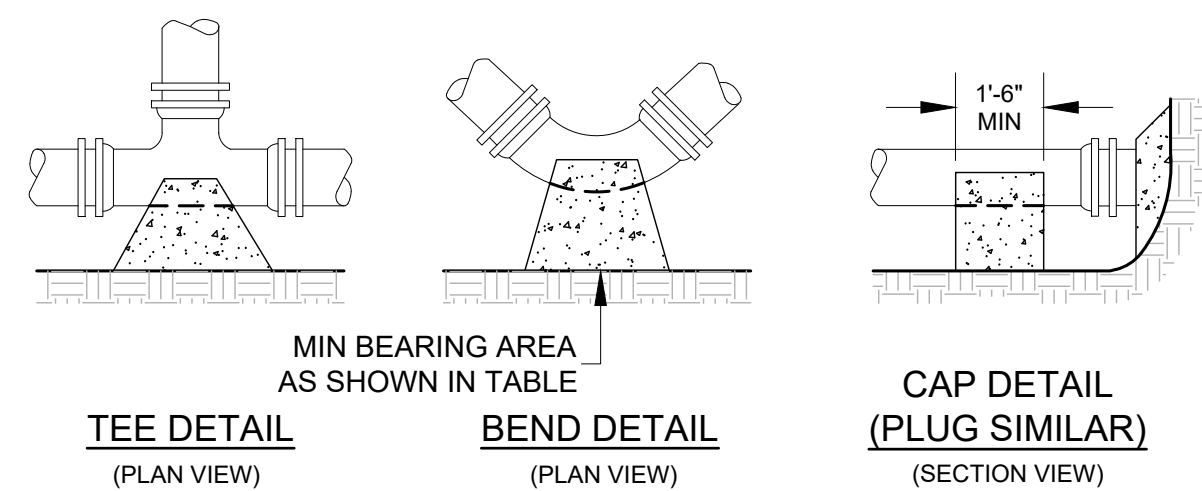


TABLE OF CONCRETE THRUST RESTRAINT MINIMUM BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS				
PIPE SIZE	90° BENDS, TEES, CAPS AND PLUGS	45° BENDS OR WYE BRANCH	22 1/2° BENDS	11 1/4° BENDS
6"	5	4	2	2
8"	5	4	2	2
10"	12	9	5	2
12"	12	9	5	2

- NOTES:
1. CONCRETE THRUST RESTRAINT SHALL ONLY BE USED WHERE OTHER MEANS OF RESTRAINT ARE NOT FEASIBLE.
 2. CONTRACTOR SHALL USE CARE TO AVOID PLACEMENT OF CONCRETE ON THE FITTING JOINTS.

CONCRETE THRUST RESTRAINT FOR FITTINGS

PIPE SIZE	90° BEND	45° BEND OR WYE BRANCH	22 1/2° BEND	11 1/4° BEND	PLUG OR CAP	TEE (BRANCH)
6"	25 (30.5)	10.5 (12.5)	5 (6)	2.5 (3)	43 (64)	34 (51)
8"	33 (40)	13.5 (16.5)	6.5 (8)	3 (4)	55 (82)	47 (70)
10"	40 (48.5)	16.5 (20)	8 (9.5)	4 (5)	67 (100)	58 (87)
12"	47 (56.5)	19.5 (23.5)	9.5 (11.5)	4.5 (5.5)	79 (118)	70 (105)

- NOTES:
1. ALL LENGTHS SHOWN IN FEET.
 2. RESTRAINED LENGTHS LISTED IN PARENTHESES ARE FOR PIPE WRAPPED IN POLYETHYLENE. THE OTHER ASSOCIATED LENGTHS ARE FOR PLAIN UNWRAPPED DUCTILE IRON PIPE.
 3. THE CONTRACTOR SHALL USE THIS TABLE IN CONJUNCTION WITH THE SPECIFIED PIPE SPECIFICATION SECTION.

MINIMUM REQUIRED LENGTH OF RESTRAINED JOINTS
PIPE RESTRAINT (CONCRETE/PIPE RESTRAINT) DETAIL
N.T.S.

DESCRIPTION:		DATE:	
DRAWN BY:	GAB	REV:	
DESIGNED BY:	GAB	DRP	
CHECKED BY:	DRP	DRP	
APPROVED BY:		ISSUED FOR:	
		REVIEW	

DETAILS

WOODLAND STREET SEWER REPLACEMENT PROJECT	WATER POLLUTION CONTROL AUTHORITY	SIMSBURY, CONNECTICUT
---	-----------------------------------	-----------------------

SCALE:	AS NOTED
SCALE SHEET SIZE:	22X34
JOB NO.:	
DATE:	JUNE 11, 2021
SHEET:	12 OF 12