

THE CITY OF TORRINGTON, CONNECTICUT

WATER POLLUTION CONTROL AUTHORITY



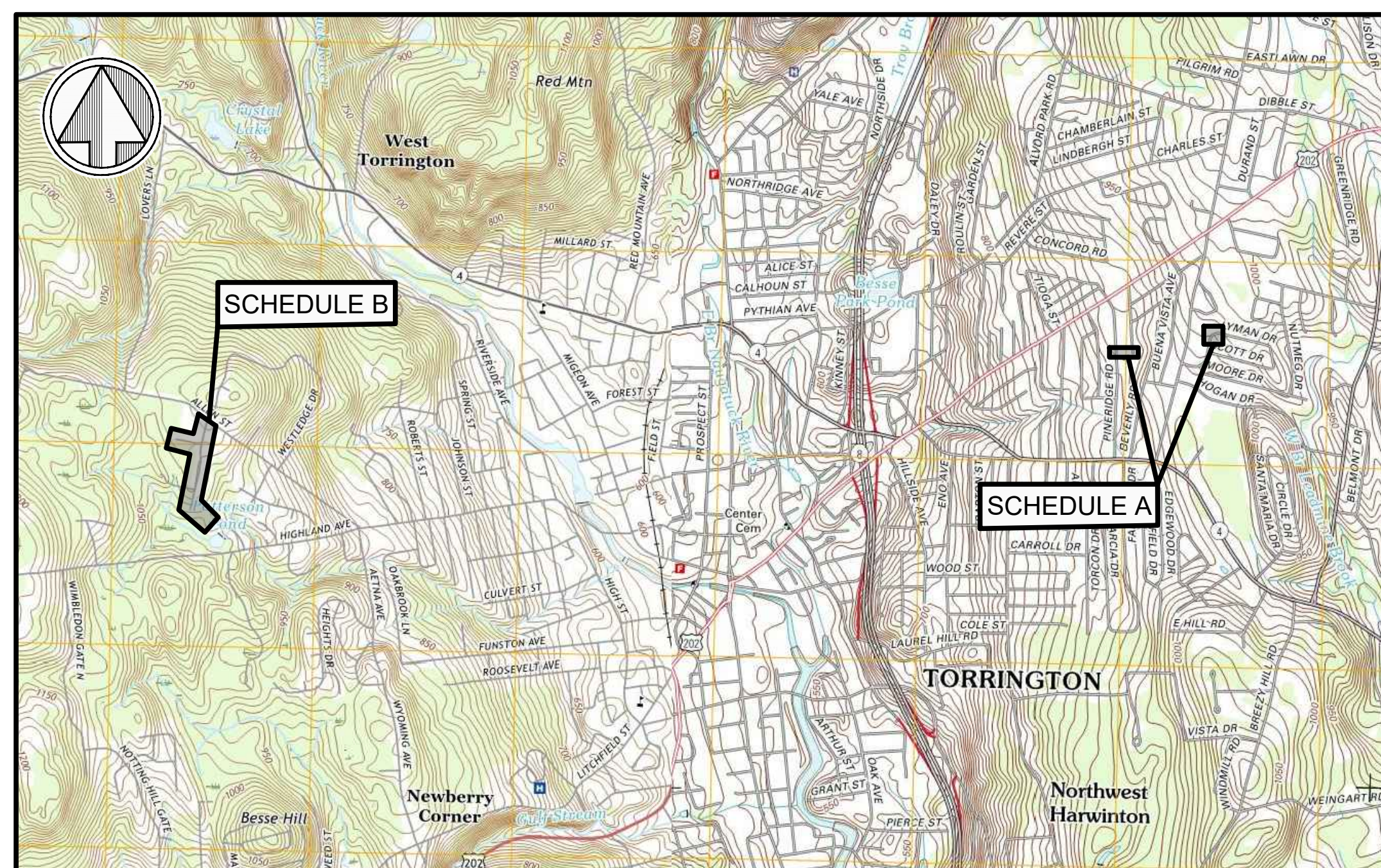
BID #HSS-041-091119

SANITARY SEWER IMPROVEMENTS PROJECT

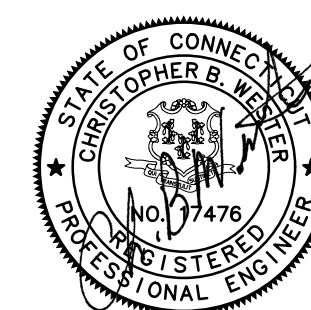
SCHEDULE A
HARTFORD AVENUE EASEMENT AND LYMAN DRIVE

SCHEDULE B
HOMESTEAD ROAD AND KIMBALL LANE

AUGUST 27, 2019

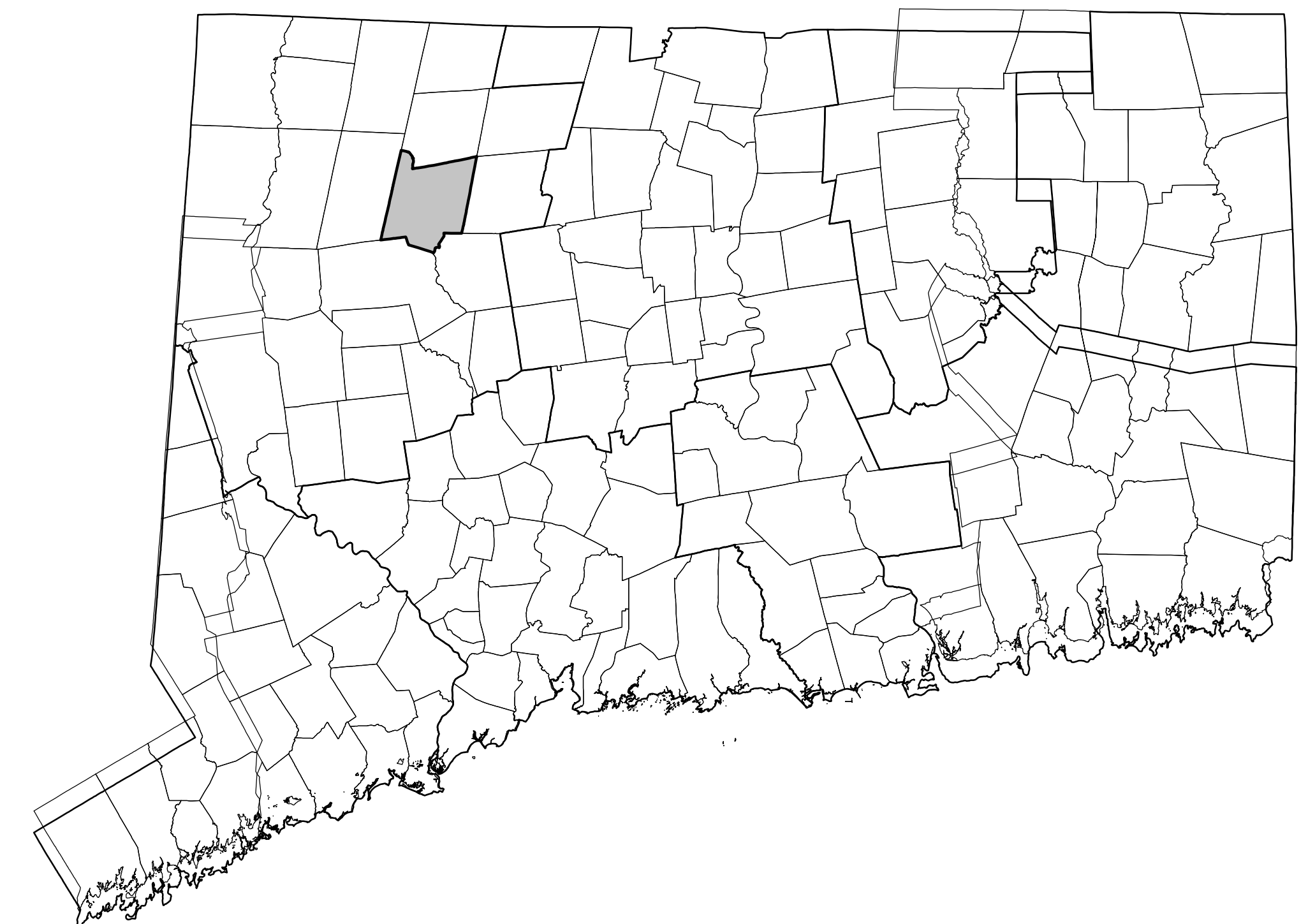


LOCATION MAP
SCALE: 1"=2000'



Weston & SampsonSM

WESTON & SAMPSON ENGINEERS, INC.
273 Dividend Road, Rocky Hill, Connecticut



LEGEND		
DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER		
FORCE MAIN		
WATER MAIN		
TEMPORARY WATER		
STORM DRAIN		
GAS		
ELECTRIC		
SEPTIC SYSTEM COMPONENT		
HOUSE CONNECTION		
WATER SERVICE		
TEMPORARY WATER SERVICE		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
ELECTRICAL MANHOLE		
TELEPHONE MANHOLE		
CHIMNEY CONNECTION		
FORCE MAIN CLEANOUT MANHOLE		
CLEANOUT		
CATCH BASIN		
HYDRANT		
TEMPORARY HYDRANT		
GATE VALVE		
CHECK VALVE		
BUTTERFLY VALVE		
INSERTION VALVE		
CURB STOP		
REDUCER		
CAP OR PLUG / CUT AND CAP		
GAS GATE VALVE		
UTILITY POLE		
GUY POLE		
GUY WIRE		
OVERHEAD WIRES		
LIGHT POST		
EDGE OF PAVEMENT		
EDGE OF UNPAVED ROAD		
CURB		
CONCRETE SIDEWALK		
BITUMINOUS SIDEWALK		
STONE WALL		
RETAINING WALL		
WIRE FENCE		
CHAIN LINK FENCE		
DECIDUOUS TREE		
EVERGREEN TREE		
CONTROL POINT		
BENCH MARK		
PROPERTY LINE		
EASEMENT LINE		
CONTOUR		
SPOT ELEVATIONS		
BUILDING/BUILDING NUMBER		
FLOOR ELEVATION		
SILL ELEVATION		
LIMIT OF WORK		
WETLAND/WETLAND FLAG		
EDGE OF WATER		
DRAINAGE DITCH/SWALE		
WETLAND SETBACK		
BOLLARD		
SIGN		
GUIDE RAIL		
PERCOLATION TEST		
TEST PIT		
BORING		
PROBE		
GROUNDWATER MONITORING WELL		
HAY BALES		
STRAW WATTLE		
ROCK OUTCROP		

NOTE: ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

ABBREVIATIONS

ASBESTOS CEMENT PIPE	
ACCPM	ASPHALT COATED CORRUGATED METAL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE, BITUMINOUS CONCRETE LIP CURB
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BoV	BOUNDARY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
C	CENTERLINE
CMP	CORRUGATED METAL PIPE
CNO	COULD NOT OPEN
CONC	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CTDOT	CONNECTICUT DEPARTMENT OF TRANSPORTATION
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN
DI	DROP INLET, DUCTILE IRON
DIA, Ø	DIAMETER
DINV	DEPTH TO INVERT OF EXISTING PIPE
DMH	DRAIN MANHOLE
E	ELECTRIC, EAST
EA	EACH
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EX	EXISTING
FT	FEET, FOOT
G	NATURAL GAS
GALV	GALVANIZED
GC	GRANITE CURB
HC	HOUSE CONNECTION
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
INV	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NC	NORMALLY CLOSED
NF	NOW OR FORMERLY, NOT FOUND
NO OR #	NUMBER
PE	POLYETHYLENE
P	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
PR	PROPOSED
PVMT	PAVEMENT
RC	REINFORCED CONCRETE
ROW	RIGHT-OF-WAY
S	SEWER, SOUTH
SF	SQUARE FEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE
STA	STATION
SW	SIDEWALK
T	TELEPHONE
TAHD	TORRINGTON AREA HEALTH DISTRICT
TBM	TEMPORARY BENCH MARK
TL	TRAFFIC LOOP
TW	TEMPORARY WATER LINE
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
YD	YARD DRAIN

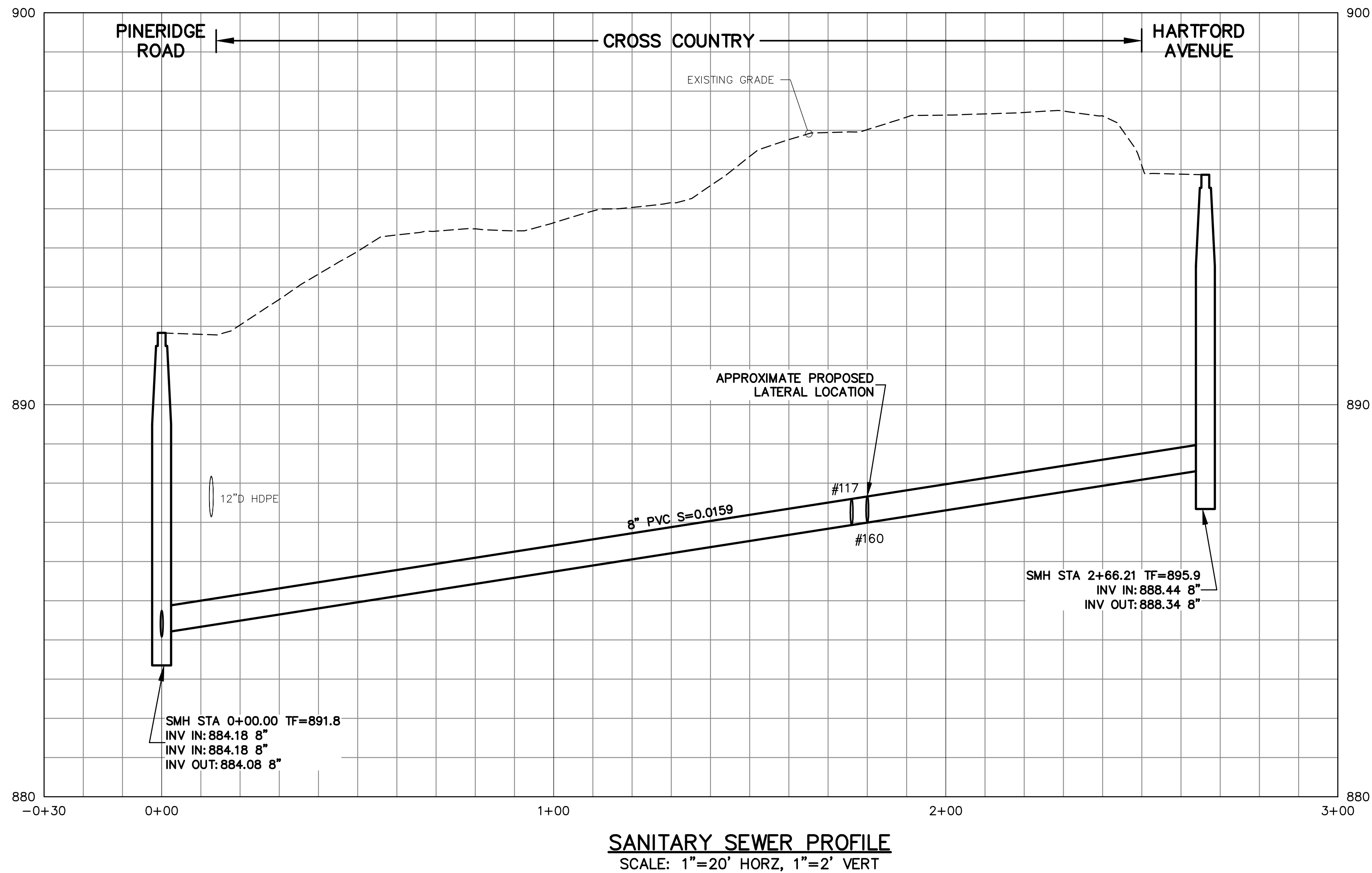
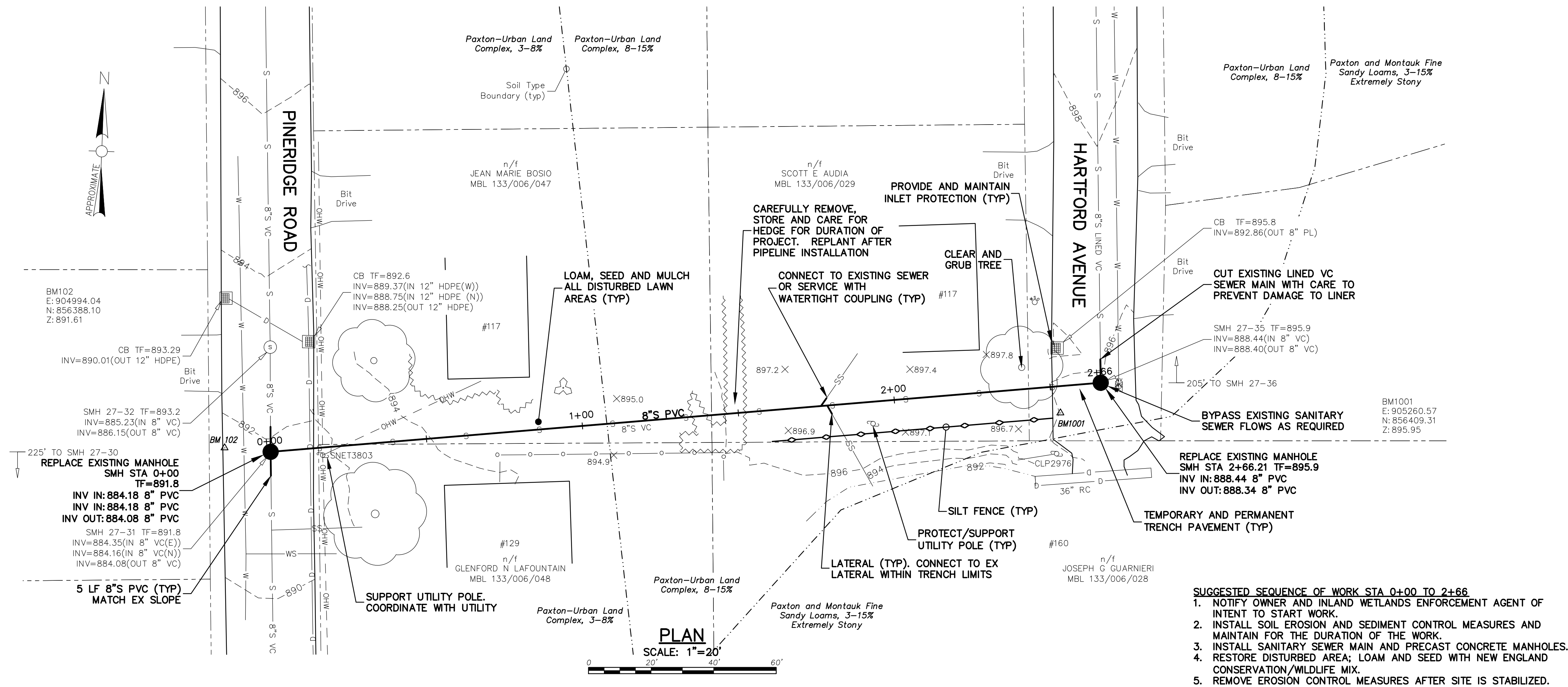
CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CALL "CALL BEFORE YOU DIG" (CBYD) AT 1-800-922-4455 AT LEAST 48 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE CBYD PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. 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.
3. TEST PITS TO LOCATE EXISTING UTILITIES SHALL BE PERFORMED WHERE SHOWN ON THE PLANS OR WHERE REQUIRED BY THE ENGINEER. TEST PITS SHALL BE PERFORMED PRIOR TO CONSTRUCTION.
4. 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 THE PROJECT.
5. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
6. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
8. TRENCHES MAY BE EXCAVATED WIDER THAN THE 'LIMIT OF EXCAVATION AND PAYMENT 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.
9. 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 WILL BE REQUIRED TO PROVIDE CRUSHED STONE FOR THE FULL WIDTH OF THE TRENCH AT NO ADDITIONAL COST TO THE OWNER.
10. OPENINGS FOR PIPE IN PRECAST STRUCTURE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING STRUCTURE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
11. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A SURVEYOR LICENSED IN THE STATE OF CONNECTICUT TO COMPLETE ALL LAYOUTS, SURVEYS, BENCHMARK TRANSFERS, ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT.
12. CALCULATION OF PIPE SLOPES IS BASED ON ELEVATION CHANGES DIVIDED BY THE DISTANCE BETWEEN THE CENTERLINES OF THE MANHOLES MINUS FIVE FEET FOR FOUR-FOOT DIAMETER STRUCTURES. 'IN' INDICATES UPSTREAM END OF STRUCTURE, 'OUT' INDICATES DOWNSTREAM END OF STRUCTURE.
13. ALL STRUCTURE CASTINGS SHALL BE SALVAGED AND DELIVERED WITHIN THE CITY LIMITS TO A LOCATION TO BE DETERMINED BY THE OWNER.
14. THE LOCATION OF PIPES, CAPS, COUPLINGS, BENDS, AND OTHER FITTINGS AT POINTS OF CONNECTIONS TO EXISTING PIPES IS APPROXIMATE. CONTRACTOR SHALL DIG A TEST PIT AT EACH LOCATION TO DETERMINE THE DIAMETER AND MATERIAL OF THE EXISTING PIPE AND THE LOCATION OF THE TIE-IN POINT.
15. RIM/FRADE ELEVATIONS OF PROPOSED STRUCTURES SHOWN ARE APPROXIMATE AND SHALL BE ADJUSTED AS REQUIRED TO MATCH FIELD CONDITIONS.
16. THE CONTRACTOR SHALL BYPASS PUMP SANITARY SEWER FLOWS FOR THE DURATION OF THE SANITARY SEWER INSTALLATION AS REQUIRED. THE CONTRACTOR SHALL PROVIDE REDUNDANT PUMPS CAPABLE OF HANDLING WET WEATHER FLOWS.
17. CONTRACTOR SHALL PROTECT/SUPPORT EXISTING ABOVE-GROUND AND BELOW-GROUND UTILITIES AS REQUIRED. CONTRACTOR SHALL SUPPORT UTILITY POLES AS REQUIRED.
18. ALL PROPOSED PAVING SHALL MATCH GRADE AT ROADWAY INTERSECTIONS, SIDEWALKS, STAIRWAYS, AND BUILDING ENTRANCES.
19. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES. ALL SIGNAGE SHALL BE REMOVED AND ALL ROADS OPENED TO NORMAL TRAFFIC FLOW.
20. EXISTING UTILITIES, TOPOGRAPHY, EDGE OF PAVEMENT, UTILITY POLE LOCATIONS, SIDEWALKS AND LOCATIONS OF ABOVE GROUND STRUCTURES FROM FIELD SURVEY PERFORMED BY THE CITY OF TORRINGTON.
21. ELEVATIONS SHOWN BASED UPON NAVD88 AND HORIZONTAL COORDINATES BASED UPON CONNECTICUT STATE PLANE (NAD83).
22. PROPERTY LINE INFORMATION BASED ON MAPPING PROVIDED BY THE CITY OF TORRINGTON.
23. WETLAND AREAS DELINEATED BY JMM WETLAND CONSULTING SERVICES, LLC. AND FIELD LOCATED BY WESTON & SAMPSON JULY 2019.
24. SOILS MAPPING FROM NATURAL RESOURCES CONSERVATION SERVICE ONLINE SERVICE.
25. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
26. CONTRACTOR SHALL NOTIFY THE INLAND WETLANDS AGENT PRIOR TO THE START OF WORK.
27. CONTACT INFORMATION:
TORRINGTON DEPARTMENT OF PUBLIC WORKS : RAY DREW, 860-489-2232

DRAWING INDEX

SHEET NO.	DRAWING NO.	TITLE
1	--	COVER
2	G-1	LEGEND, ABBREVIATIONS, NOTES AND DRAWING INDEX
3	C-1	SCHEDULE A - HARTFORD AVENUE EASEMENT STA 0+00 TO 2+66
4	C-2	SCHEDULE A - LYMAN DRIVE STA 0+00 TO 2+24
5	C-3	SCHEDULE B - HOMESTEAD ROAD STA 0+00 TO 4+70
6	C-4	SCHEDULE B - HOMESTEAD ROAD STA 4+70 TO 10+70
7	C-5	SCHEDULE B - HOMESTEAD ROAD STA 10+70 TO 15+60
8	C-6	SCHEDULE B - HOMESTEAD ROAD STA 15+60 TO 17+00
9	C-7	SCHEDULE B - KIMBALL LANE STA 0+00 TO 4+95
10	C-8	DETAILS
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273 Dividend Road, Rocky Hill, CT 06067
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FILE NO.

C-7

SHEET

3 of 12

FILE NAME

Torrington TO 8.dwg

SCALE

AS NOTED

DR BY

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CHK BY

WGS

APP BY

CBW

BID #

ISS-041-091119

CITY OF TORRINGTON, CONNECTICUT

WATER POLLUTION CONTROL AUTHORITY

SANITARY SEWER IMPROVEMENTS PROJECT - SCHEDULE A HARTFORD AVENUE EASEMENT AND LYMAN DRIVE AND SCHEDULE B HOMESTEAD ROAD AND KIMBALL LANE

SCHEDULE A - HARTFORD AVENUE EASEMENT

STA 0+00 TO 2+66

NO.

DATE

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DESCRIPTION

1

August 27, 2019

DATE

REGISTERED PROFESSIONAL ENGINEER

August 27, 2019

DATE

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August 27, 2019

DATE

NO.

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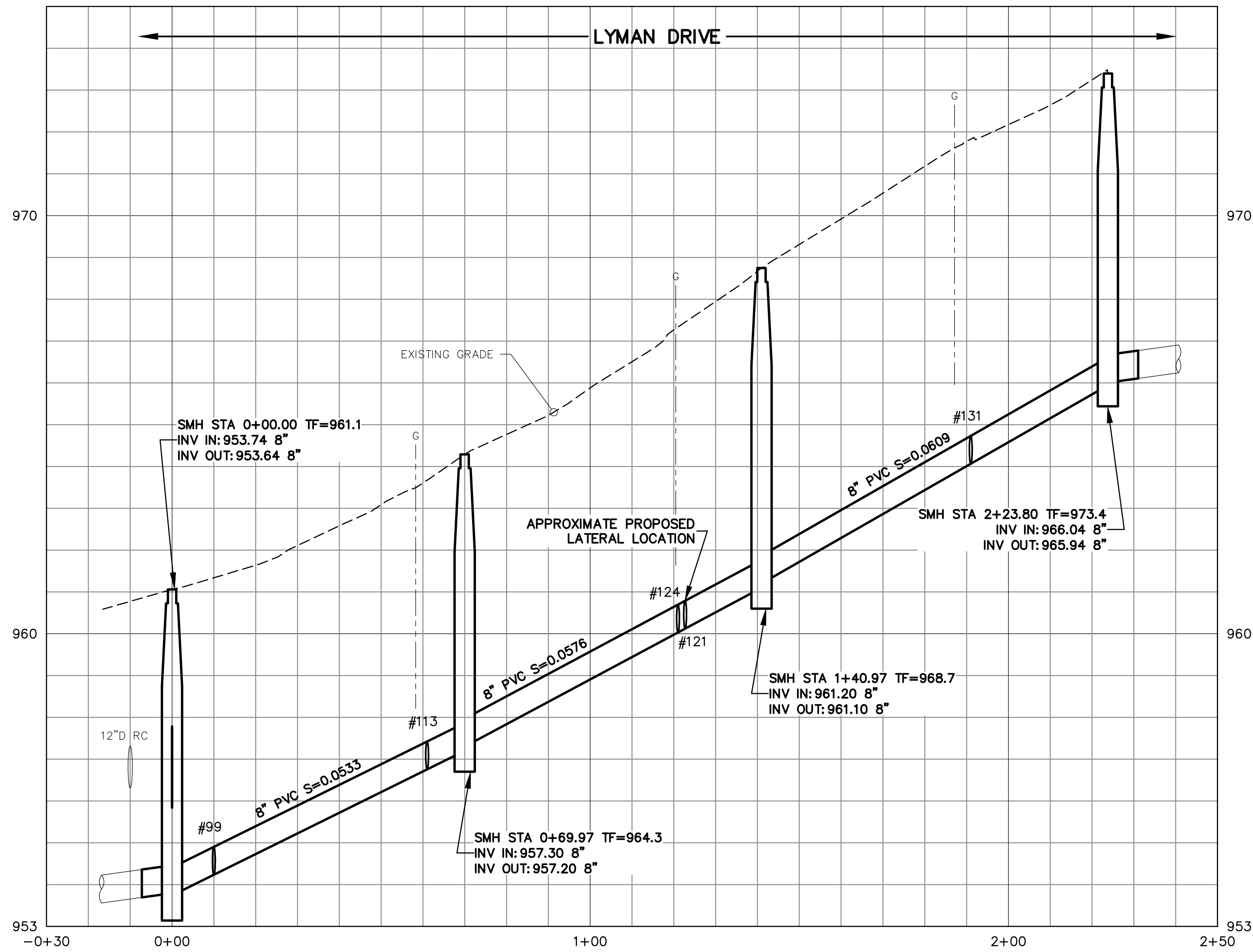
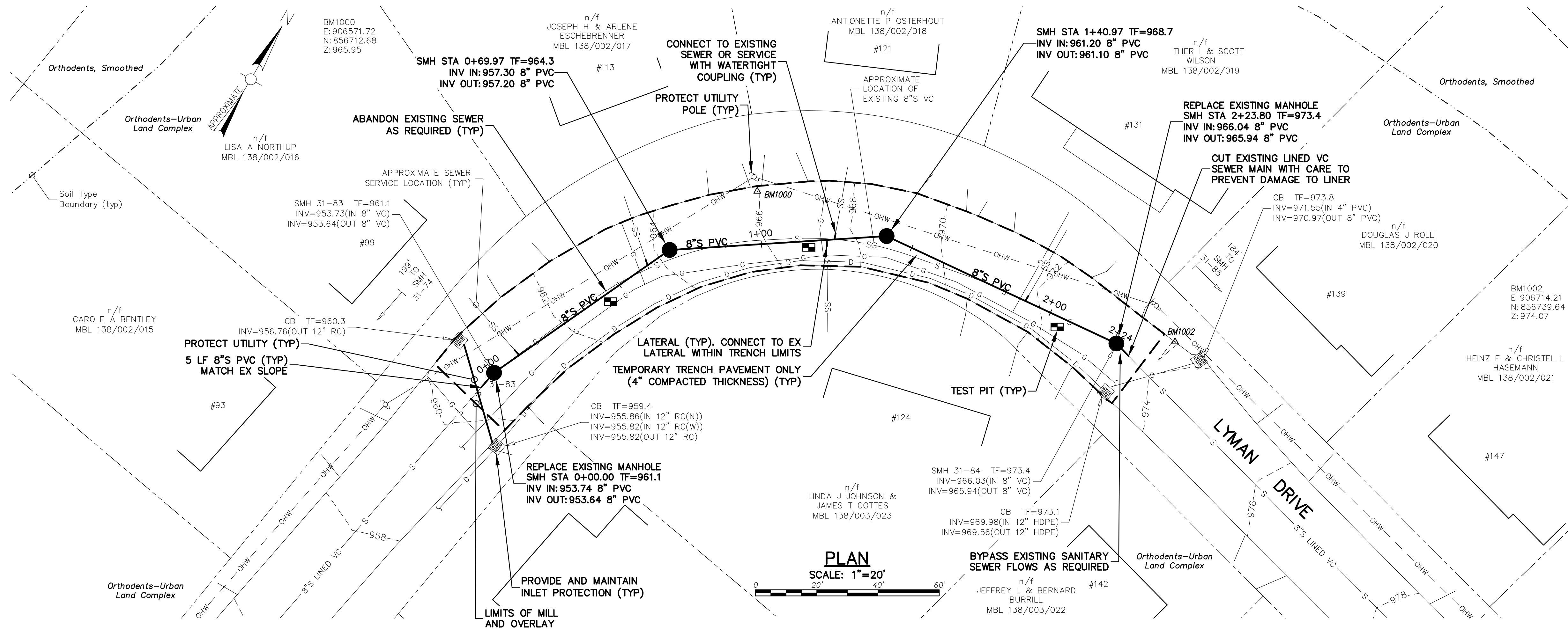
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August 27, 2019

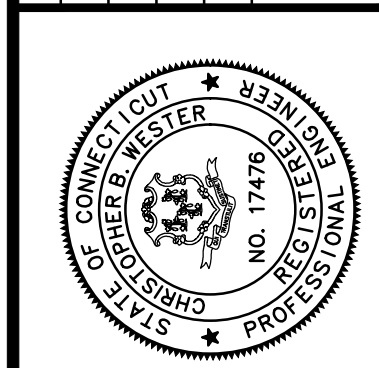
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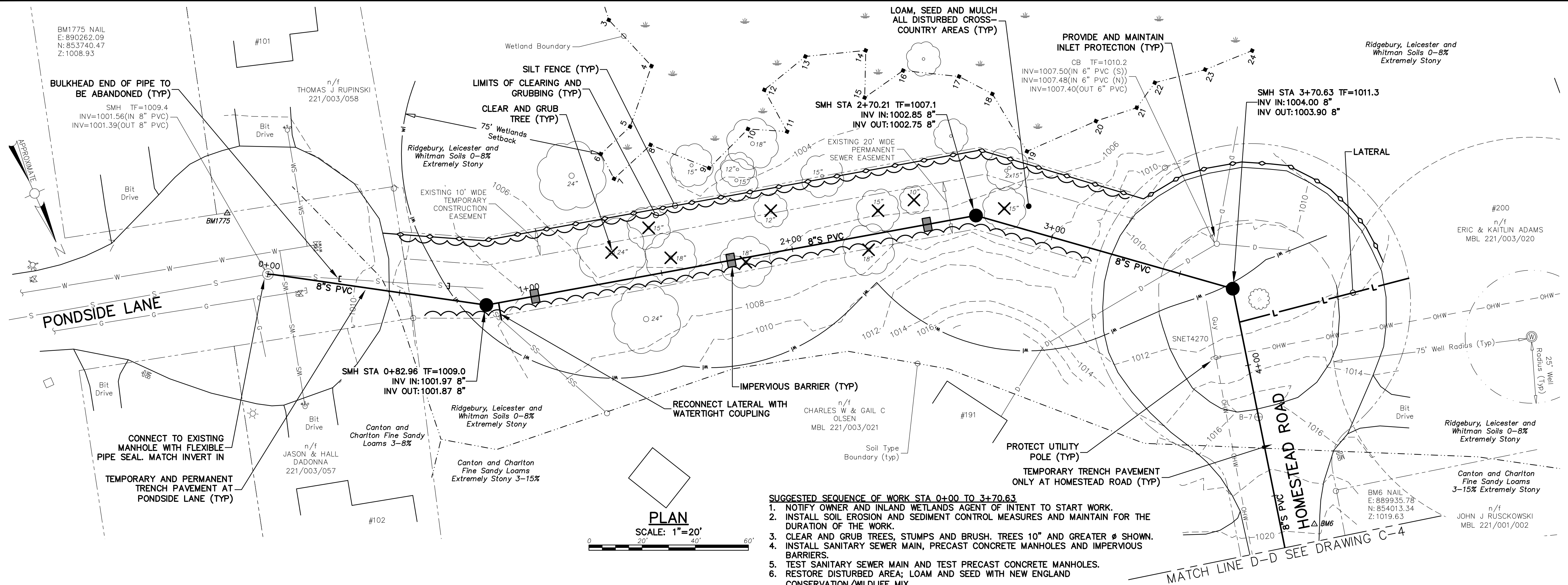
SANITARY SEWER PROFILE
SCALE: 1"=20' HORZ, 1"=2' VERT

No.	Date	Dr. By	Chk. By	App. By	Description

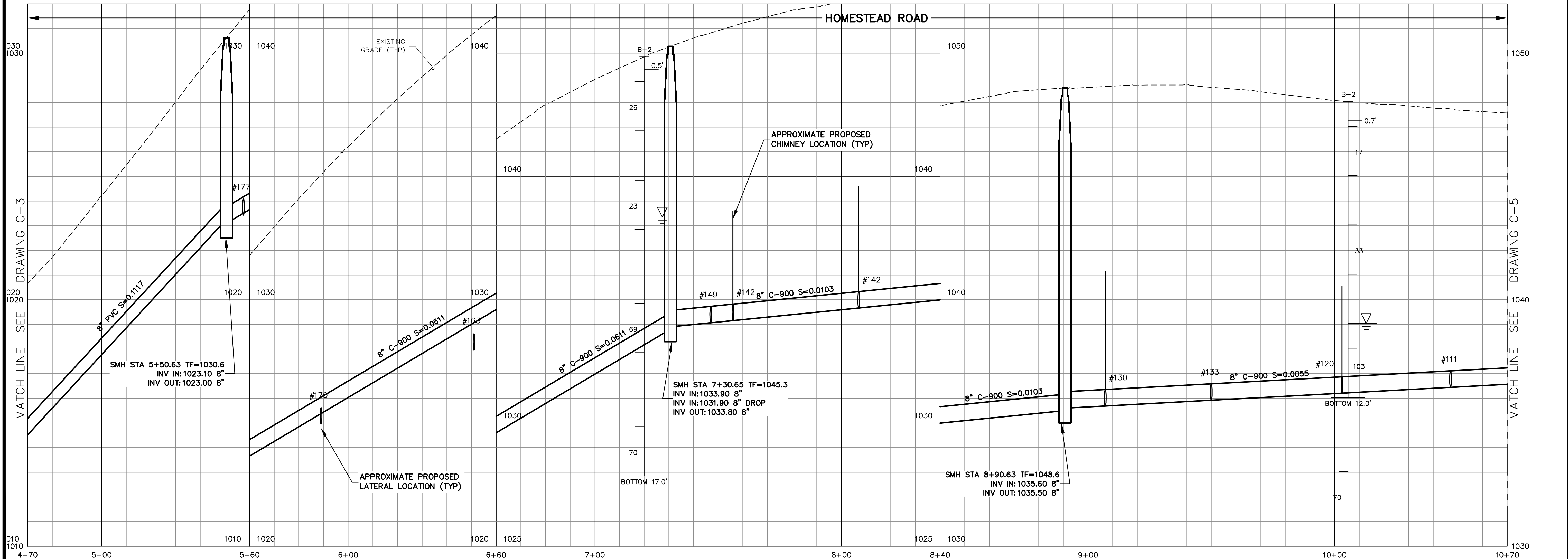
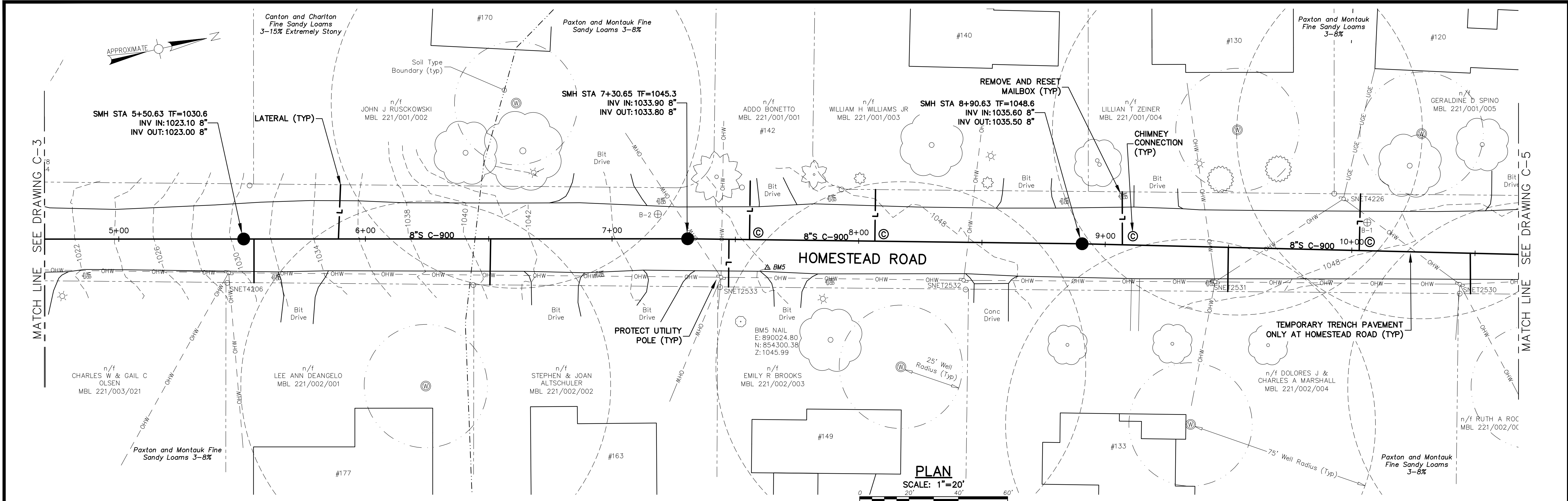


CITY OF TORRINGTON, CONNECTICUT WATER POLLUTION CONTROL AUTHORITY		BID #SS-041-091119 SANITARY SEWER IMPROVEMENTS PROJECT - SCHEDULE A HARTFORD AVENUE EASEMENT AND LYMAN DRIVE AND SCHEDULE B HOMESTEAD ROAD AND KIMBALL LANE	
SCHEDULE A - LYMAN DRIVE STA 0+00 TO 2+24		Torrington TO 8.dwg	
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CHK. BY	WGS	RGT	CBW
APP. BY	CBW		

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SANITARY SEWER PROFILE
SCALE: 1"=20' HORZ, 1"=2' VERT

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SCHEDULE B - HOMESTEAD ROAD STA 4+70 TO 10+70

FILE NAME
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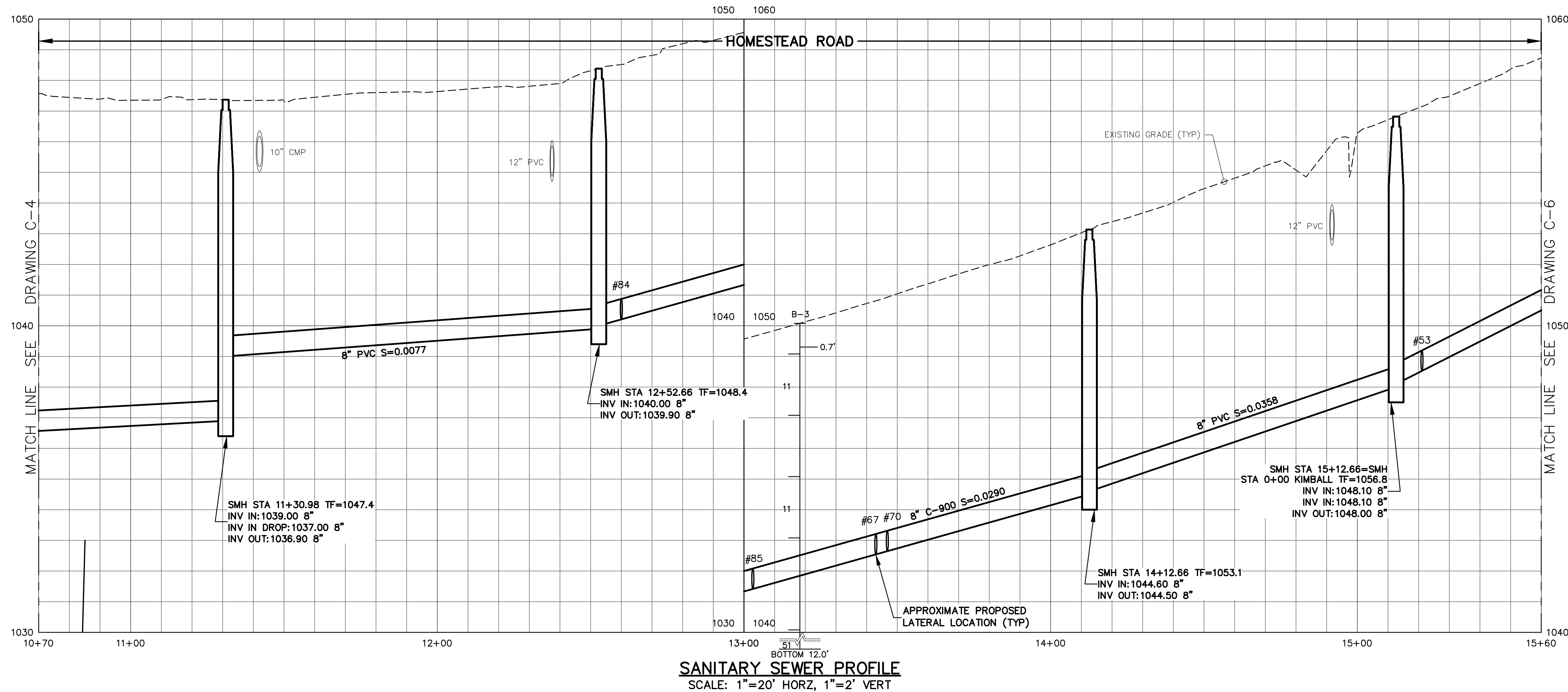
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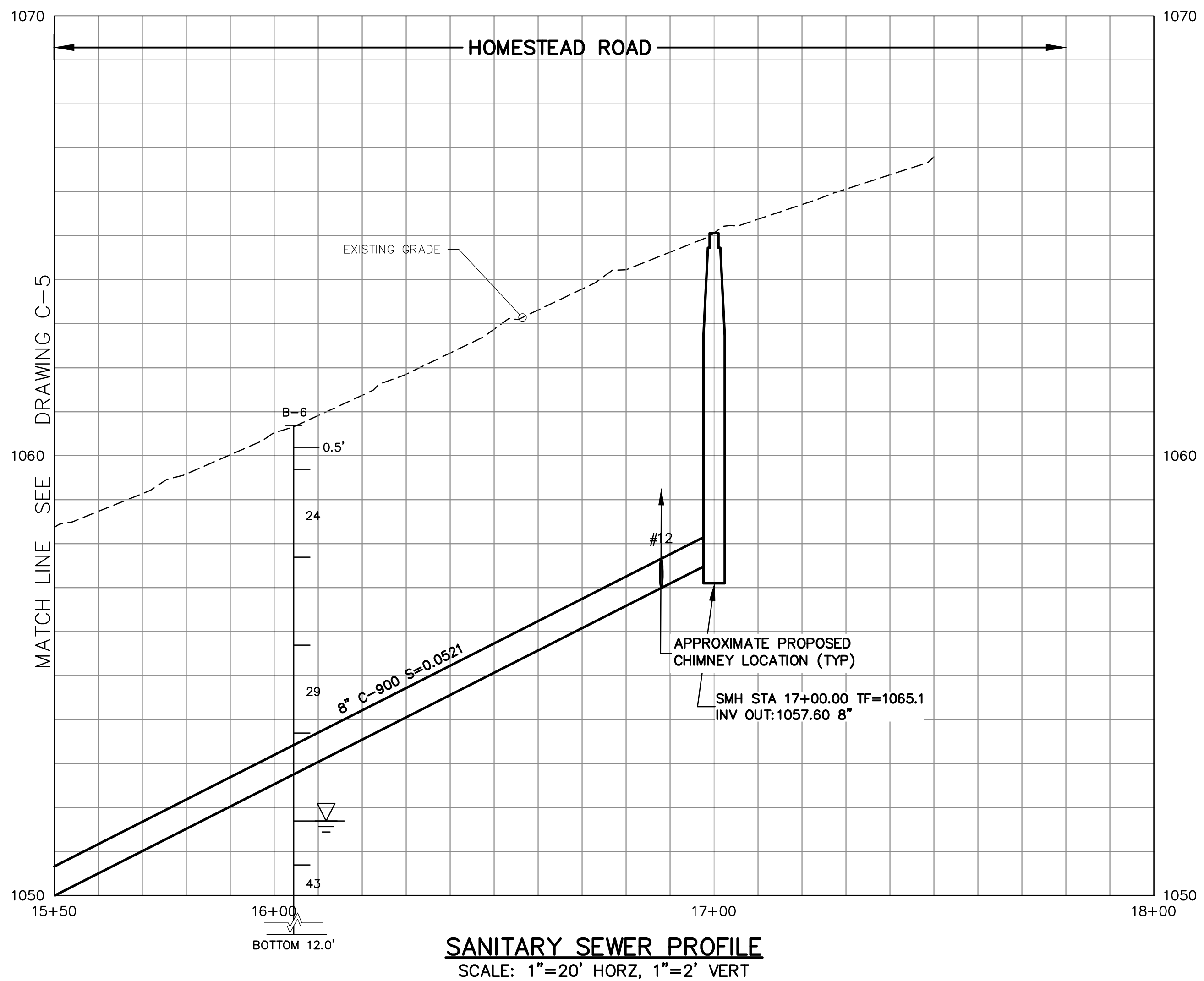
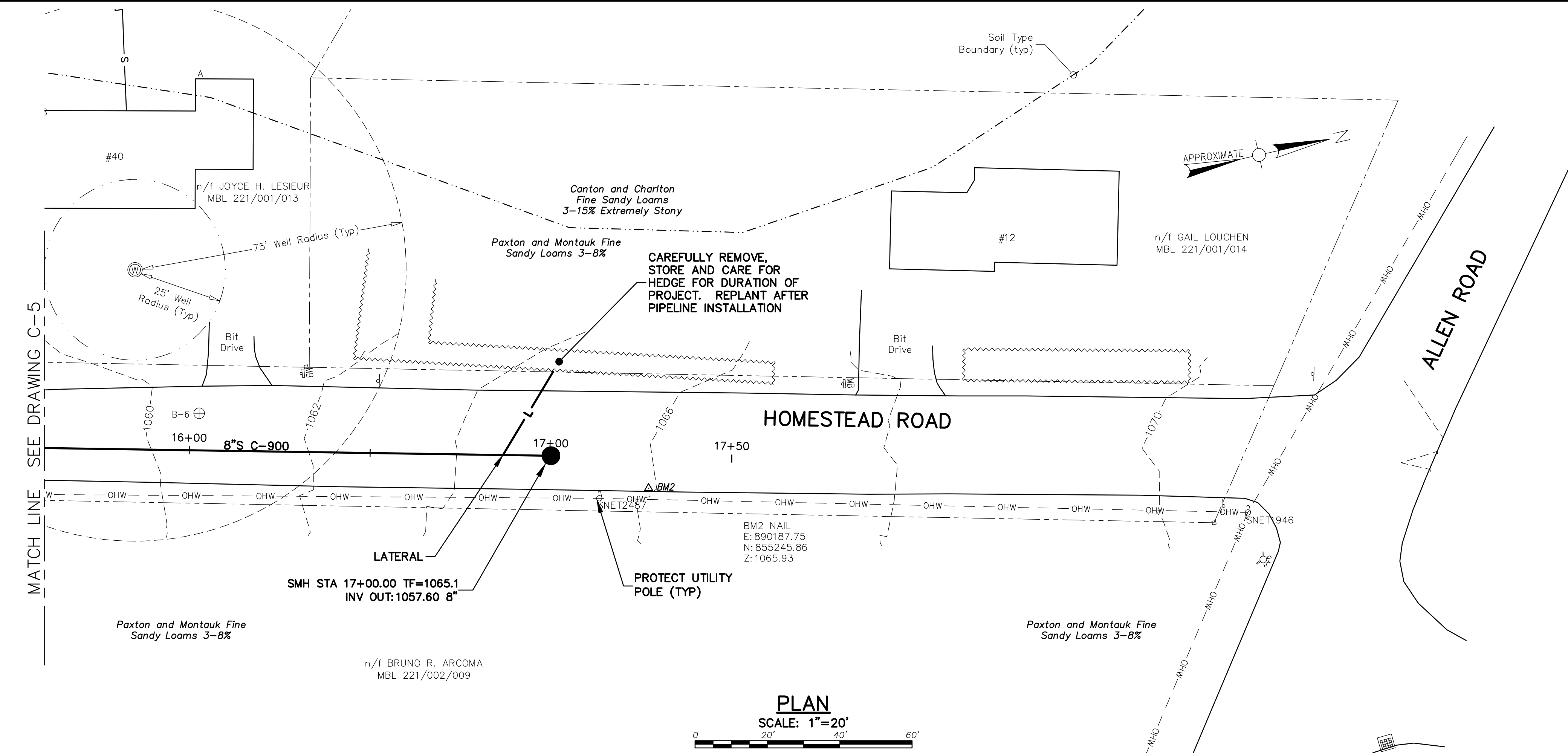
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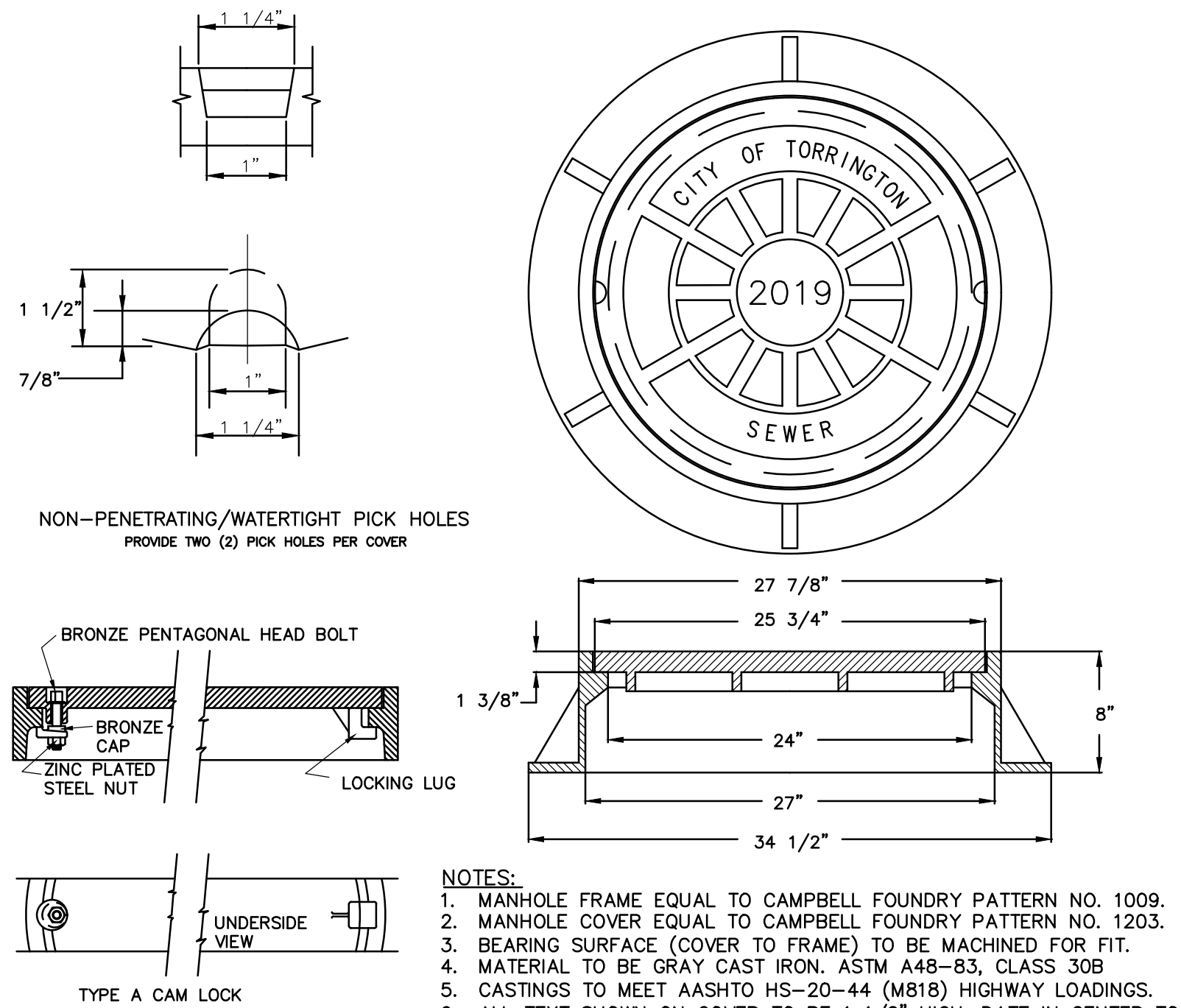
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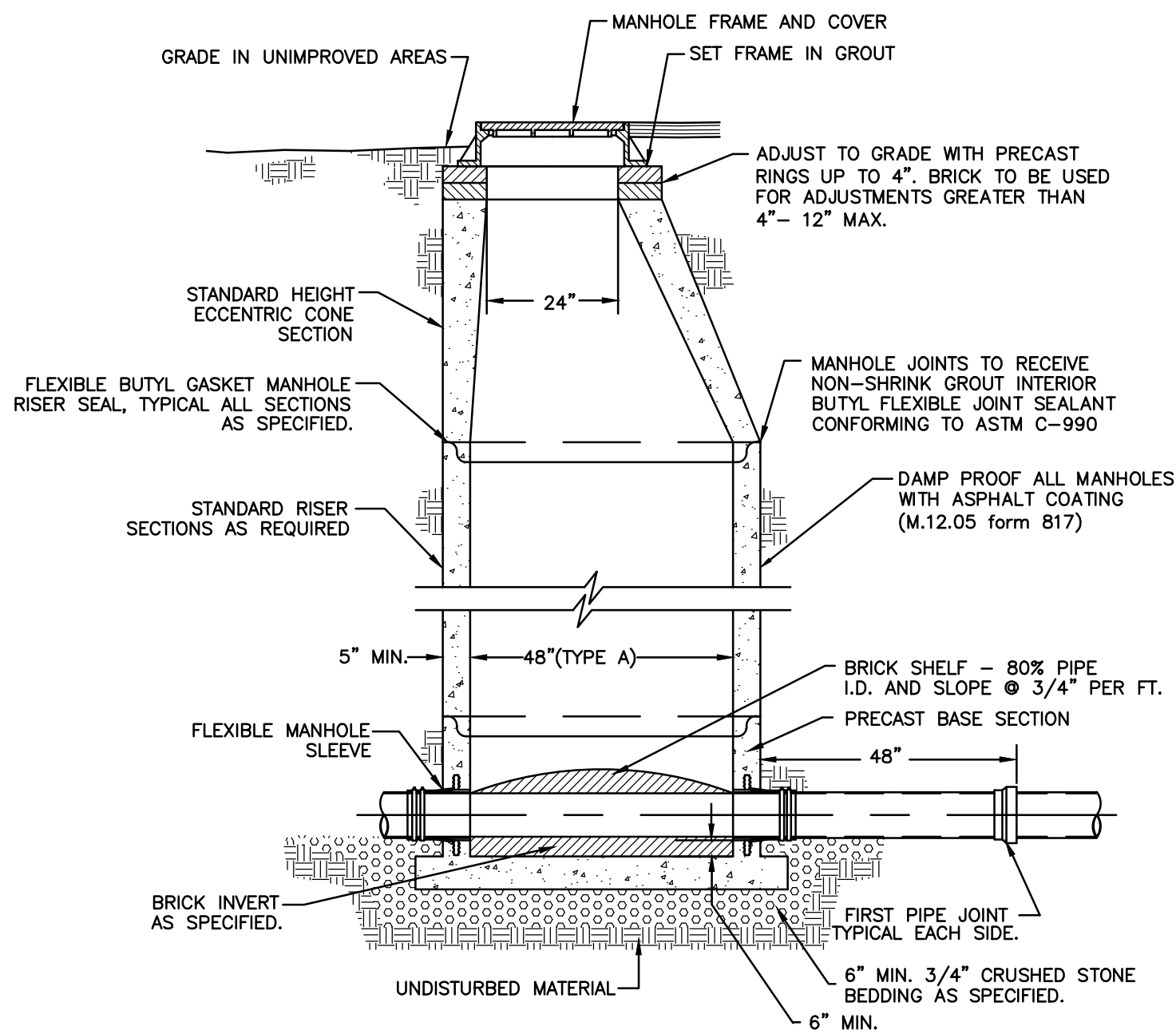
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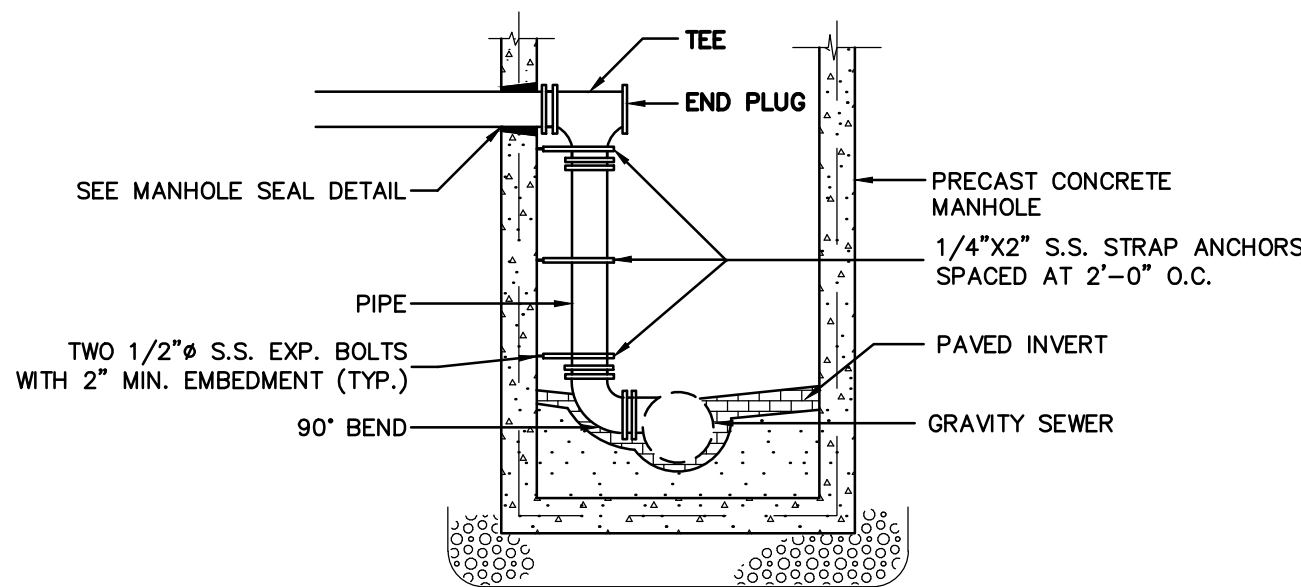
C-6	CITY OF TORRINGTON, CONNECTICUT WATER POLLUTION CONTROL AUTHORITY				BID #SS-041-091119 SANITARY SEWER IMPROVEMENTS PROJECT - SCHEDULE A HARTFORD AVENUE EASEMENT AND LYMAN DRIVE AND SCHEDULE B HOMESTEAD ROAD AND KIMBALL LANE				SCHEDULE B - HOMESTEAD ROAD STA 15+60 TO 17+00				
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WESTON & SAMPSON ENGINEERS, INC. 273 DIVIDEND ROAD, ROCKY HILL, CT 06067 (860) 513-1473 (800) SAMPSON www.westonandsampson.com													
REGISTERED PROFESSIONAL ENGINEER August 27, 2019 DATE													



MANHOLE FRAME AND COVER
N.T.S.

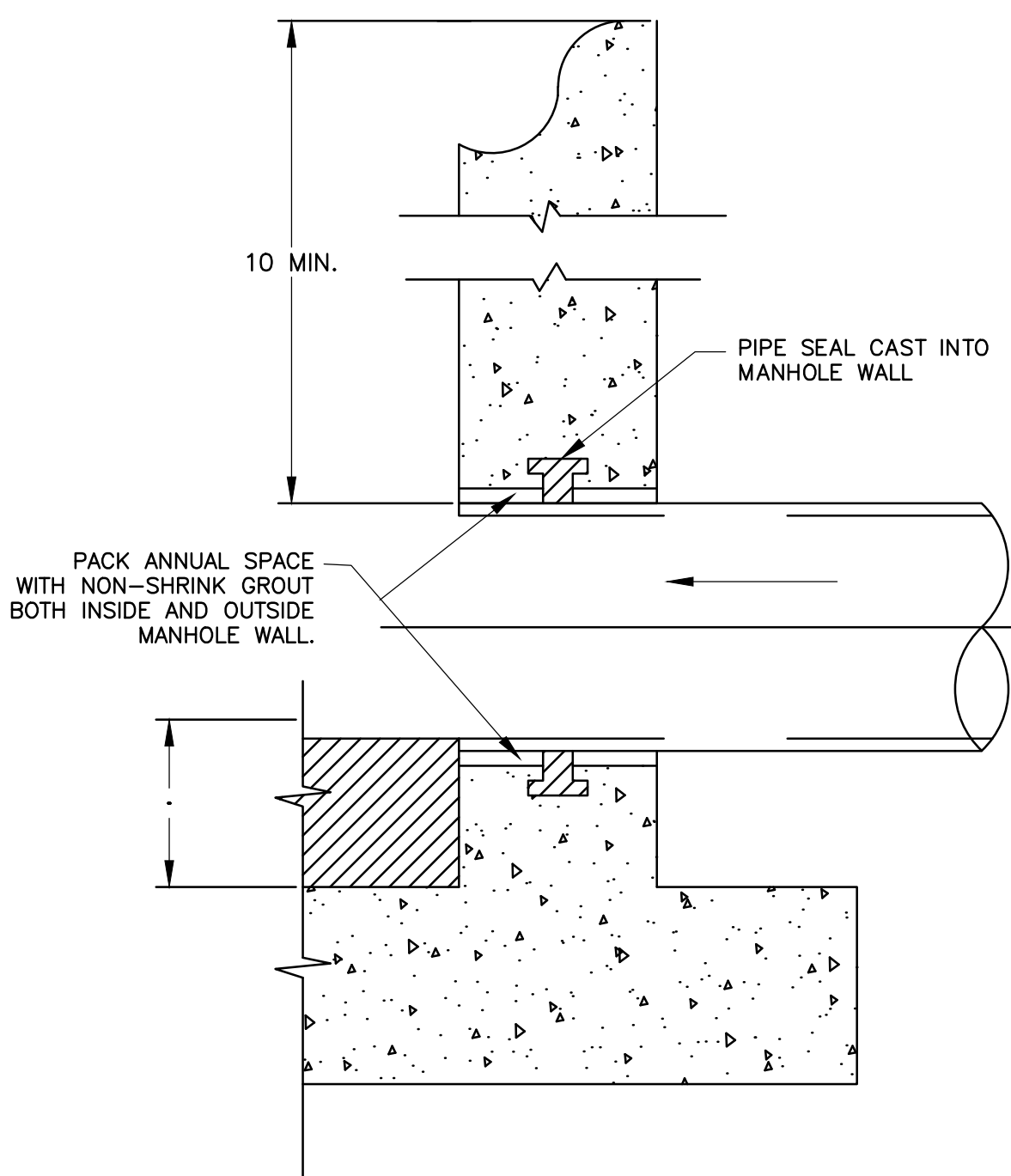


PRECAST CONCRETE MANHOLE
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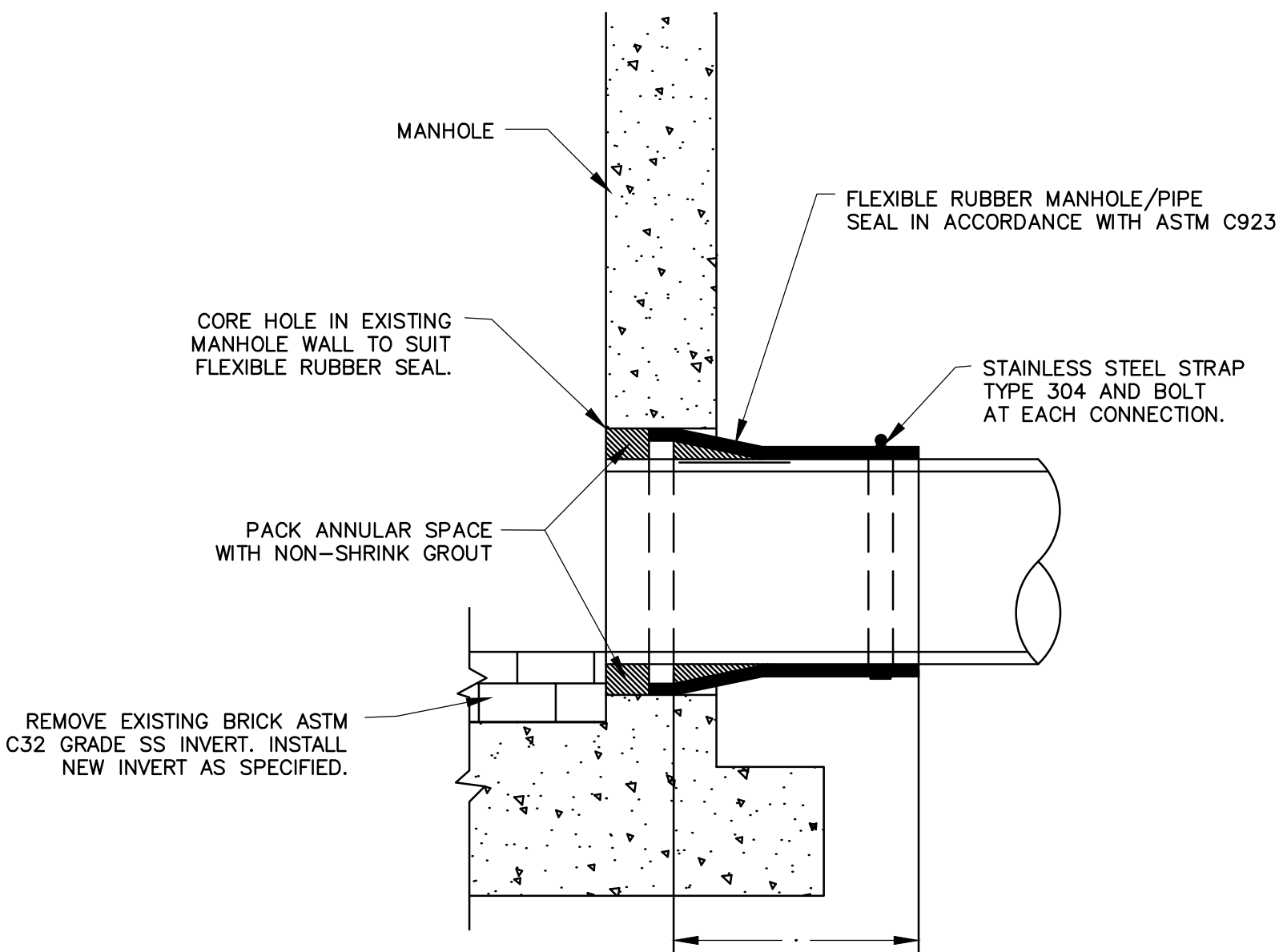


- NOTES:
1. DROP PIPE MATERIALS TO BE THE SAME AS PIPELINE MATERIALS.
 2. DIMENSIONS AND CONSTRUCTION OF MANHOLE TO BE SIMILAR TO PRECAST CONCRETE MANHOLE EXCEPT AS SHOWN.

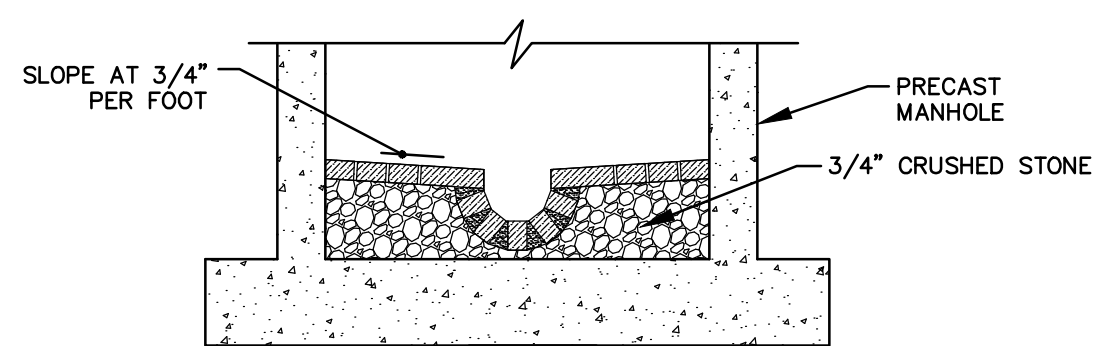
INSIDE DROP CONNECTION DETAIL
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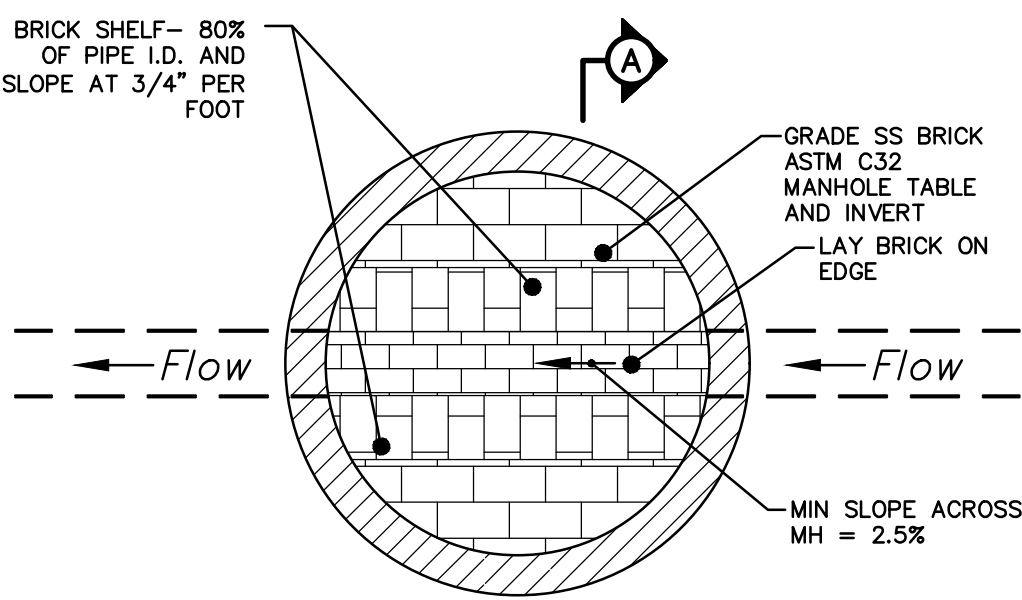
PRECAST CONCRETE MANHOLE CONNECTION
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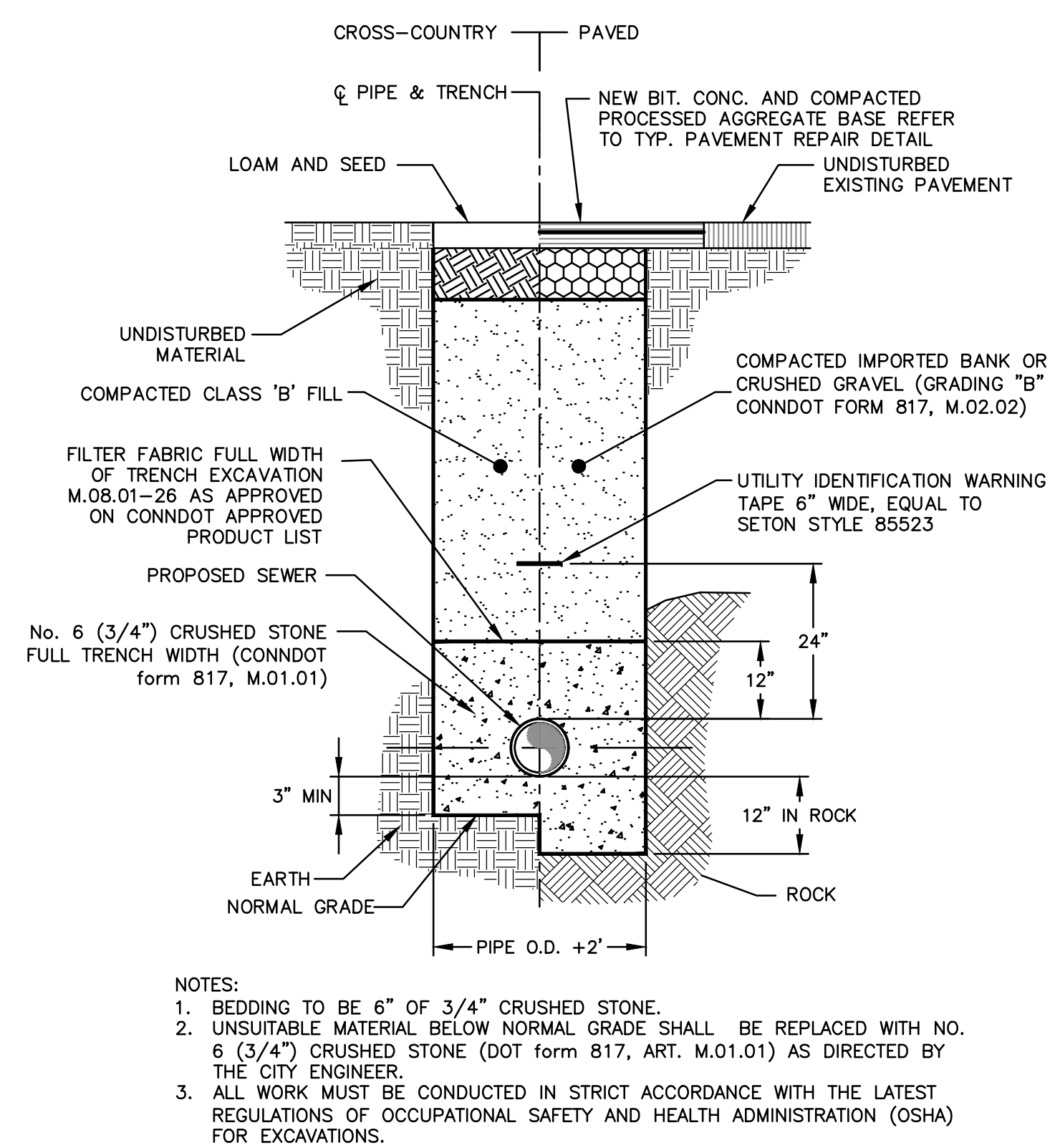
FLEXIBLE PIPE SEAL CONNECTION TO EXISTING MANHOLE
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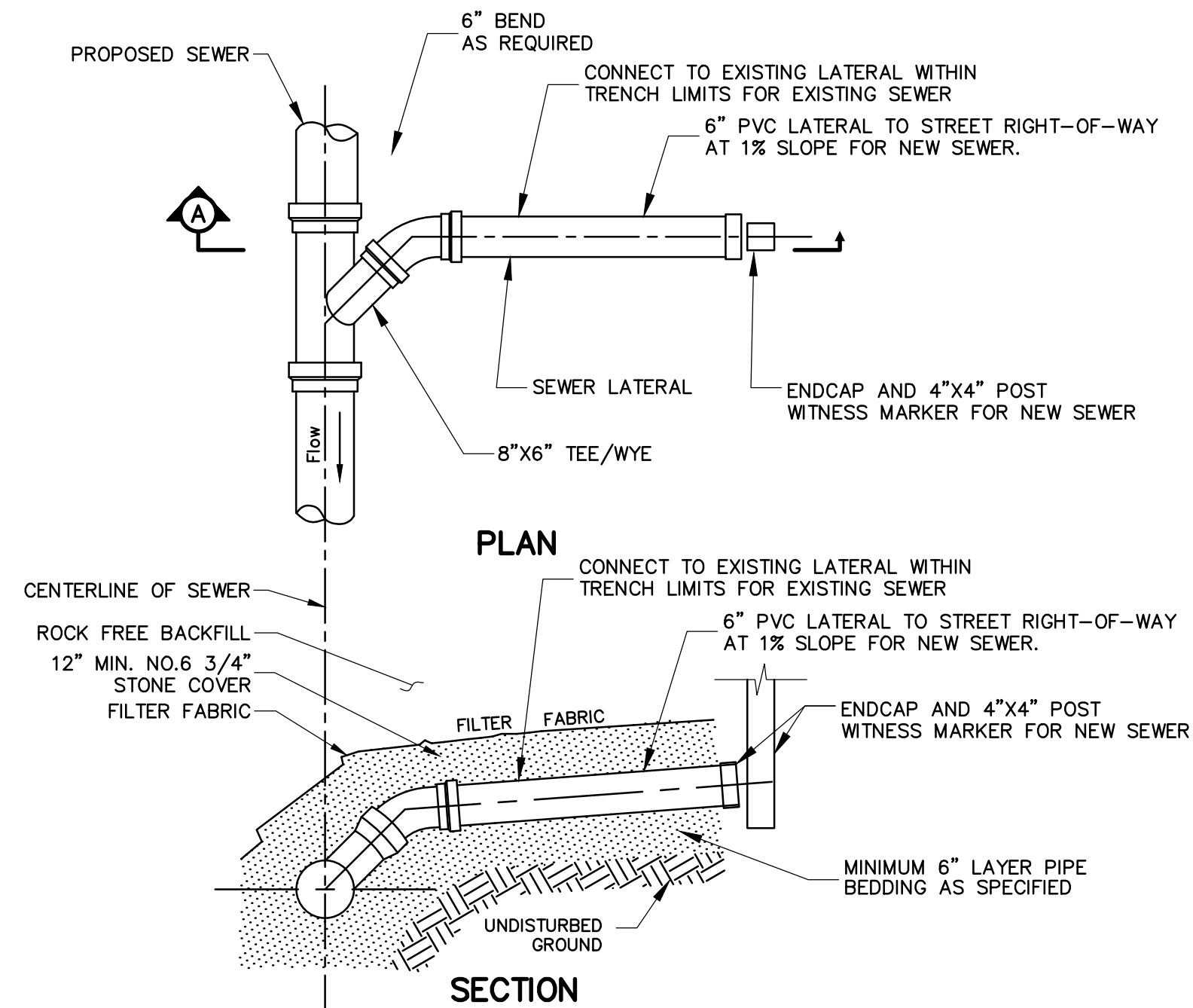
SECTION A



MANHOLE PAVED INVERT
N.T.S.



SANITARY SEWER TRENCH UNDER PAVEMENT
N.T.S.



STANDARD LATERAL INSTALLATION
N.T.S.

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Ch. By

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SHEET 10 of 12

