

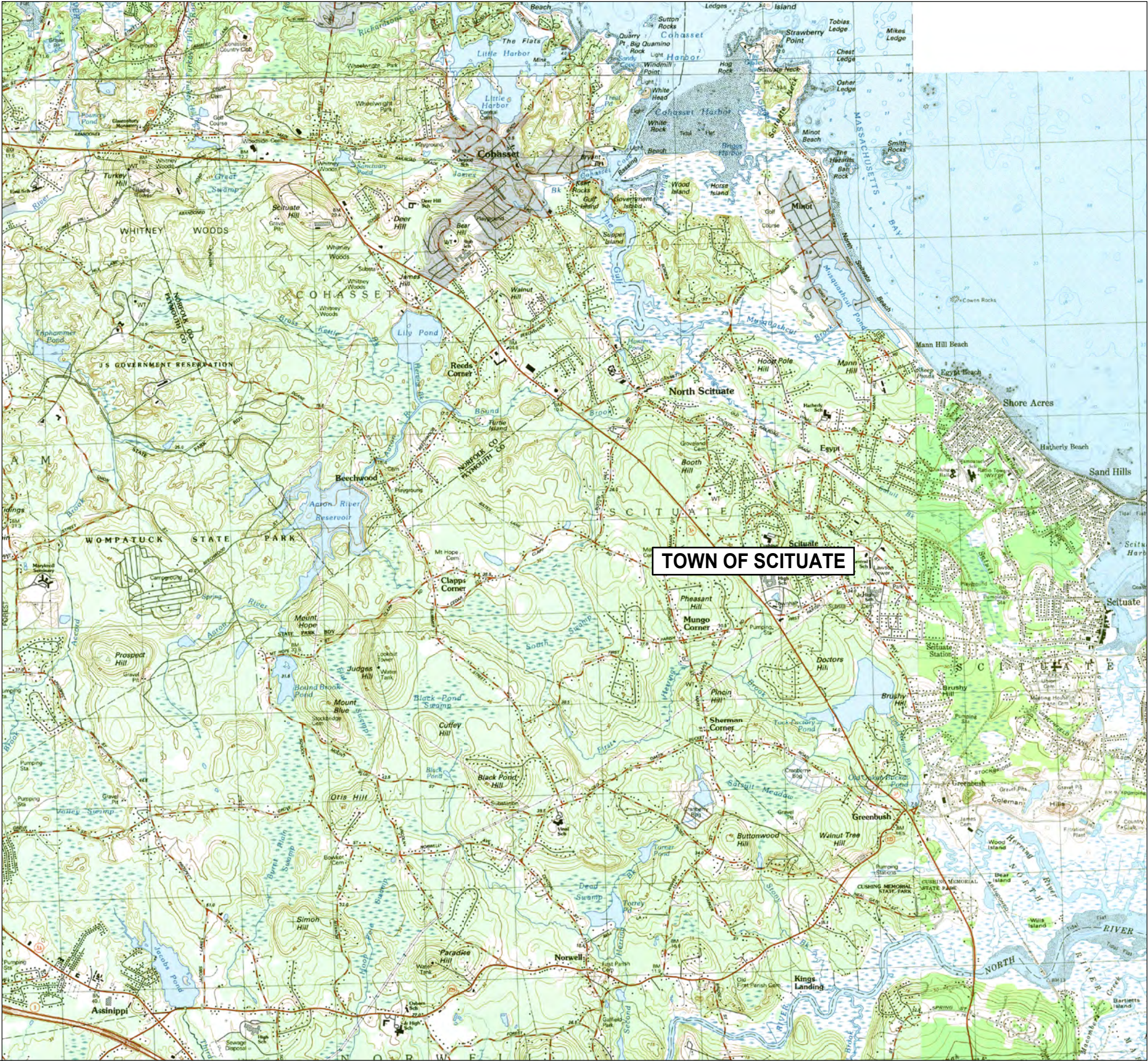
TOWN OF SCITUATE, MASSACHUSETTS

WATER MAIN REPLACEMENT PHASE 4A

DEPARTMENT OF PUBLIC WORKS, 600 CHIEF JUSTICE CUSHING HIGHWAY, SCITUATE, MA 02066



LOCATION MAP
SCALE: 1"=2500'



VICINITY MAP
SCALE: 1"=4000'

DRAWING INDEX	
SHEET	TITLE
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G001	ABBREVIATIONS, NOTES AND LEGEND
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C101	WOOD AVENUE AND RAINBOW COURT
C102	FOAM ROAD AND JERICHO LANE
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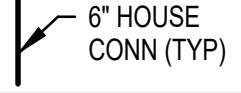
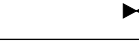
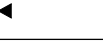
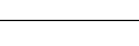
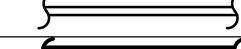
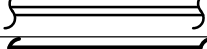
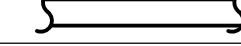
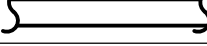
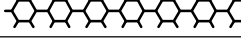
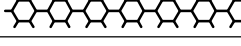
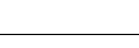
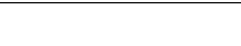
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LEGEND		
DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	— S —	— 8" S PVC —
FORCE MAIN	--- FM ---	--- 6" FM DI ---
WATER MAIN	— W —	— 6" W DI —
TEMPORARY WATER		--- 4" W ---
STORM DRAIN	— D —	--- 18" D RCP ---
GAS	— G —	— 4" G —
ELECTRIC	— E —	— E —
TELEPHONE	— T —	— T —
HOUSE CONNECTION		 6" HOUSE CONN (TYP)
GRINDER PUMP	○	● GP
SANITARY SEWER MANHOLE	⊙	● SMH
STORM DRAIN MANHOLE	⊙	● SDMH
ELECTRICAL MANHOLE	⊙	● EMH
TELEPHONE MANHOLE	⊙	● TMH
AIR RELEASE VALVE MANHOLE	○	● ARMH
FORCE MAIN CLEANOUT MANHOLE	○	● FMCO
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 — x —	— x — x —
INDIVIDUAL DECIDUOUS TREE		
INDIVIDUAL EVERGREEN TREE		
TREE LINE	~~~~~	~~~~~
SURVEY MARKER	□	
PROPERTY LINE	— P —	
EASEMENT LINE	— — — —	— — — —
LIMIT OF WORK		— . — . —
APPROX. LIMIT OF REFUSE	=====	=====
SPOT ELEVATIONS	x 141.5	x 141.5
CONTOUR LINES	— 56 —	— 56 —
DEPRESSION CONTOUR LINES	— 1 — 1 — 1 —	— 1 — 1 — 1 —
HOUSE NUMBER	#35	
FLOOR ELEVATION	FL=56.7	
SILL ELEVATION	S=56.7	
WETLAND		
WETLAND FLAGS		1 2
RIP RAP		
STATE HIGHWAY STATION	○	
SURFACE MOUNTED DELINEATOR		
GUARD POST	△	▲
BOLLARD	○ B	● B
SIGN		
BENCH MARK		
AUGER	⊕ A-1	⊕ A-1
PERCOLATION TEST	PT 1	PT-1
TEST PIT	TP 1	TP-1
BORING	B-10	B-11
PROBE	P-10	P-11
GROUNDWATER MONITORING WELL	WS-1	WS-1
GAS MONITORING WELL	GMW-10	GMW-10
GAS VENT	○ GV	● GV
HAY BALES		• • • • •
ROCK OUTCROP		
DRAINAGE DITCH / SWALE		

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

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
CL	CENTERLINE
CL	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN, DEPTH FROM RIM TO INVERT
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
DWG	DRAWING
E	EAST, ELECTRIC
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FLG	FLANGE
FT	FEET, FOOT
G	NATURAL GAS
GALV	GALVANIZED
GC	GRANITE CURB
GR	GRANITE
HC	HOUSE CONNECTION
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
I	INVERT
INV	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MDC	METROPOLITAN DISTRICT COMMISSION
MDPW	MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS
MECH	MECHANICAL
MH	MANHOLE
MassDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MWRA	MASSACHUSETTS WATER RESOURCES AUTHORITY
N	NORTH
NE	NORTH EAST
NW	NORTH WEST
NF	NOT FOUND
NO OR #	NUMBER
OD	OUTSIDE DIAMETER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END, POLYETHYLENE
ℙ	PROPERTY LINE
PL	PLATE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RQD	ROCK QUALITY
S	SEWER, SOUTH
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE, STAINLESS STEEL
STA	STATION
STL	STEEL
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
TBM	TEMPORARY BENCH MARK
THK	THICK (NESS)
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
W/	WITH
W/O	WITHOUT

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 AND CITY/TOWN DEPARTMENTS AS APPROPRIATE AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE 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 MAY BE ORDERED BY THE ENGINEER TO DETERMINE WHETHER TO RAISE OR LOWER THE PROPOSED WATER MAIN TO CLEAR EXISTING UTILITIES OR VERIFY EXISTING UTILITY LOCATION, SIZE AND TYPE.
- STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AS NECESSARY TO PERFORM THE WORK AND REPLACED TO A CONDITION AT LEAST EQUAL TO THAT BEFORE CONSTRUCTION BEGAN. 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.
- UNLESS OTHERWISE INDICATED, CONCRETE USED FOR PIPE ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES, AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- APPROVED JOINT RESTRAINT METHODS SHALL BE PROVIDED FOR WATER MAINS WHERE ANY BENDS, TEES, PLUGS, OR WYES ARE INSTALLED. CONCRETE THRUST BLOCKS, ANCHOR BLOCKS AND TIE RODS MAY BE USED FOR 6-INCH AND 8-INCH PIPE WHERE JOINT RESTRAINT IS NOT FEASIBLE UPON APPROVAL OF THE ENGINEER. SEE TABLE 1 DETAIL FOR REQUIRED RESTRAINING LENGTHS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- NEW WATER MAINS AND SERVICES SHALL BE INSTALLED AT THE MINIMUM DEPTH FROM FINISH GRADE TO TOP OF PIPE AS SHOWN ON THE DRAWINGS. WHERE NECESSARY, NEW WATER MAINS SHALL BE INSTALLED AT A GREATER DEPTH TO CLEAR OBSTACLES SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST TO THE OWNER. MINIMUM CLEARANCES TO UTILITIES, AS SHOWN ON THE DRAWINGS SHALL BE MAINTAINED.
- EXISTING SERVICES SHALL NOT BE CONNECTED TO THE PROPOSED WATER MAIN UNTIL THAT MAIN HAS PASSED PRESSURE TEST AND DISINFECTION REQUIREMENTS.
- EXISTING WATER MAINS OR SERVICES SHALL NOT BE ABANDONED WITHOUT THE APPROVAL OF THE OWNER. WATER SERVICE SHALL NOT BE INTERRUPTED MORE THAN 4 HOURS WITHOUT PRIOR APPROVAL OF THE OWNER.
- ALL HYDRANTS REMOVED SHALL BE SALVAGED AND DELIVERED TO A LOCATION TO BE DETERMINED BY THE OWNER. SURFACE RESTORATION SHALL BE IN KIND UNLESS OTHERWISE NOTED.
- ANY HYDRANT WHICH IS NOT IN SERVICE SHALL BE COVERED WITH A SECURELY FASTENED AND APPROVED BAG.
- VALVE BOXES ON MAINS TO BE ABANDONED SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO A LOCATION TO BE DETERMINED BY THE OWNER. SURFACE RESTORATION SHALL BE IN KIND UNLESS OTHERWISE NOTED.
- EXISTING WATER MAINS PARALLEL TO PROPOSED WATER MAINS SHALL BE ABANDONED. ALL SERVICE CONNECTIONS SHALL BE TRANSFERRED TO NEW WATER MAIN AS REQUIRED.
- FOR WATER MAIN REMOVE AND REPLACE WORK, THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF EXISTING WATER MAIN WHEN IT IS IN THE NEW WATER MAIN TRENCH.
- THE LOCATION OF PIPES, CAPS, REDUCERS, BENDS, AND OTHER FITTINGS AT POINTS OF CONNECTIONS TO EXISTING MAINS 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.
- ALL CATCH BASINS WITHIN PROJECT LIMITS SHALL BE PROTECTED AS SHOWN ON DETAIL SHEET.
- ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF MASSACHUSETTS GENERAL LAW CHAPTER 82A, TRENCH EXCAVATION AND SAFETY REQUIREMENTS, TO PREVENT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES.
- THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES WHICH HOLD WATER IN THE SYSTEM. THE OWNER WILL, ON 72 HOURS NOTICE FROM THE CONTRACTOR, OPEN AND/OR CLOSE ANY VALVES REQUIRED FOR DRAINING OR ADMITTING WATER TO THE VARIOUS SECTIONS OF THE WATER MAINS. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY IN WRITING 48 HOURS IN ADVANCE, ANY OCCUPANT THAT WILL BE WITHOUT WATER DUE TO A SHUTDOWN.
- THE EXISTING WATER MAIN AND SEWER SERVICE LOCATIONS SHOWN ON THE DRAWINGS ARE BASED ON A COMBINATION OF FIELD SURVEY, GIS, AERIAL IMAGERY AND RECORD INFORMATION. THE CONTRACTOR IS TO CONFIRM ALL WATER AND SEWER SERVICE LOCATIONS WITH THE OWNER IN THE FIELD.
- SOME WATER SERVICE CONNECTIONS MAY NOT BE SHOWN ON THE DRAWINGS. THE OWNER WILL MARK THE LOCATION OF SUCH CONNECTIONS, PROVIDED THE CONTRACTOR GIVES THE OWNER AT LEAST 72 HOURS ADVANCE NOTICE.
- THE CONTRACTOR SHALL REPLACE ALL WATER SERVICES FROM THE WATER MAIN TO THE PROPERTY LINE WITH NEW COPPER PIPE, CORPORATION STOP, AND CURB STOP, AS REQUIRED. COORDINATE THIS WORK WITH THE WATER DEPARTMENT. EXISTING COPPER SERVICES SHALL BE TRANSFERRED TO NEW WATER MAIN WITH NEW CORPORATION AND APPROVED FITTINGS. THE CONTRACTOR WILL BE REQUIRED TO RESTORE ALL PRIVATE PROPERTY TO PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- ALL NEW WATER SERVICES SHALL BE THE SAME SIZE AS THE EXISTING WATER SERVICE, EXCEPT THAT NO SERVICE SHALL BE LESS THAN 1" DIAMETER. COORDINATE THIS WORK WITH THE WATER DEPARTMENT.
- TEMPORARY WATER SERVICE PIPE WILL BE REQUIRED FOR ALL RESIDENTS WITHIN THE CONTRACT LIMITS WHERE THEY WILL BE WITHOUT WATER FOR A PERIOD OF 4 HOURS OR MORE AND ALSO WHERE REQUIRED BY THE ENGINEER. TEMPORARY GATE VALVES AND FIRE HYDRANTS ARE TO BE PROVIDED, AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY BYPASS 24/7 WHILE ACTIVELY BEING USED TO FEED DWELLINGS.
- WHERE THE PLANS INDICATE A NEW CONNECTION TO AN EXISTING MAIN, THE CONTRACTOR SHALL PROVIDE A SOLID SLEEVE OR A HUMAX TYPE COUPLING OR EQUIVALENT TO MAKE THE CONNECTION.
- IF TRENCH DEWATERING IS REQUIRED THE CONTRACTOR SHALL PUMP WATER INTO A SEDIMENT BASIN. THE CONCTOR SHALL OBTAIN APPROVAL BY THE ENGINEER FOR THE TYPE AND CONFIGURATION OF THE SETTLING BASIN PRIOR TO USE.
- ALL NEW WATER MAINS SHALL BE POLYETHYLENE ENCASED IN ACCORDANCE WITH SPECIFICATION SECTION 02800., DUCTILE IRON PIPE AND FITTINGS FOR WATER MAINS.
- ELEVATIONS REFERENCED ARE NATIONAL GEODETIC VERTICAL DATUM (NGVD), FORMERLY U.S. COAST AND GEODETIC SURVEY DATUM OF 1929.
- EXISTING UTILITY AND PROPERTY LINE INFORMATION, TOPOGRAPHIC INFORMATION, EDGE OF PAVEMENT, UTILITY POLE LOCATIONS, AND LOCATIONS OF EXISTING ABOVE GROUND STRUCTURES ARE DEPICTED BASED ON A COMBINATION OF FIELD SURVEY, GIS, AERIAL IMAGERY AND RECORD INFORMATION.
- WETLAND RESOURCE AREA INFORMATION TAKEN FROM MASSGIS DATA LAYERS, 6/25/2020.

Project:

TOWN OF SCITUATE, MA



WATER MAIN REPLACEMENT
PHASE 4A

DEPARTMENT OF PUBLIC WORKS
800 CHIEF JUSTICE CUSHING HIGHWAY
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Approved By:	BWA

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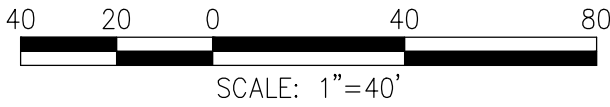
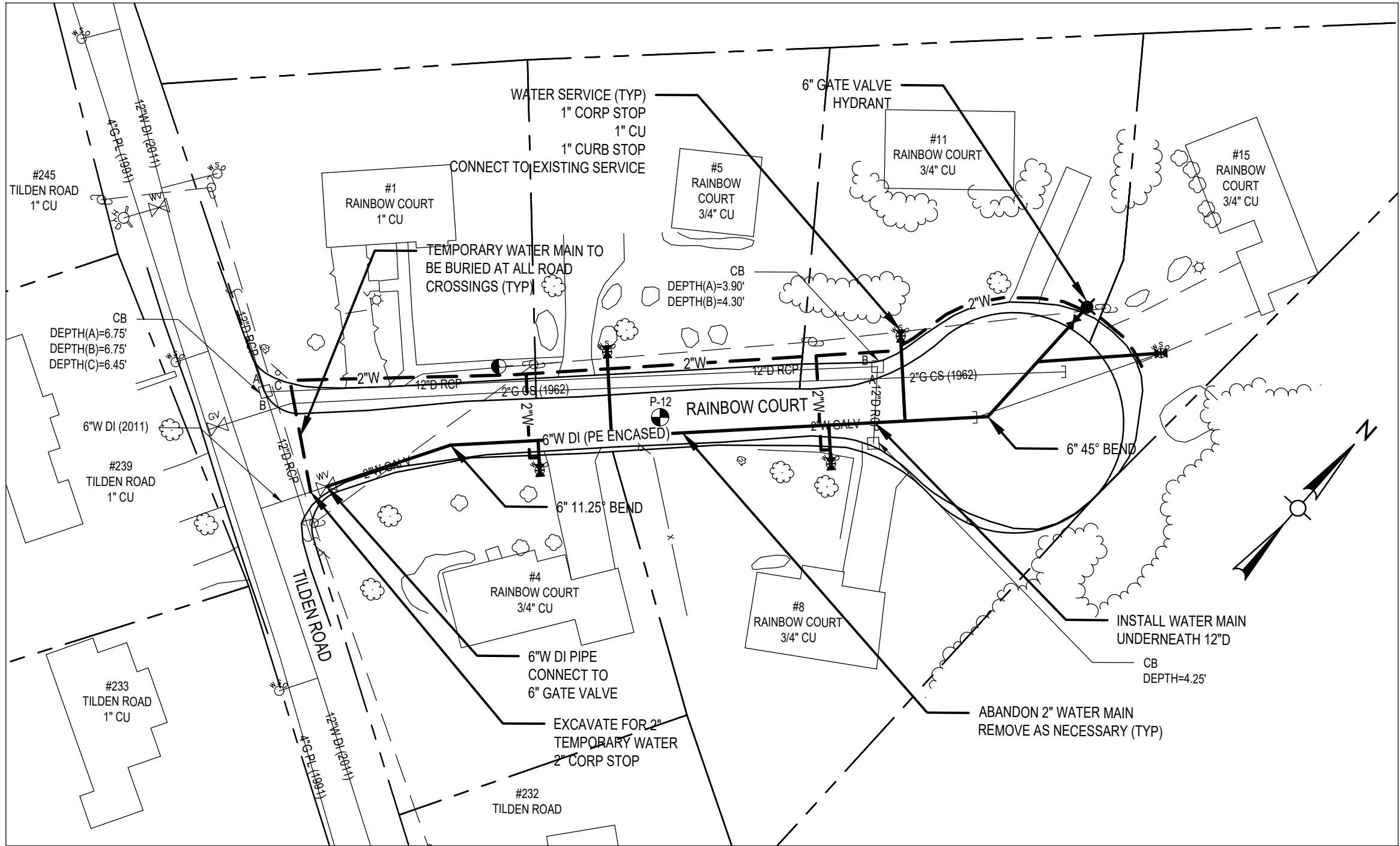
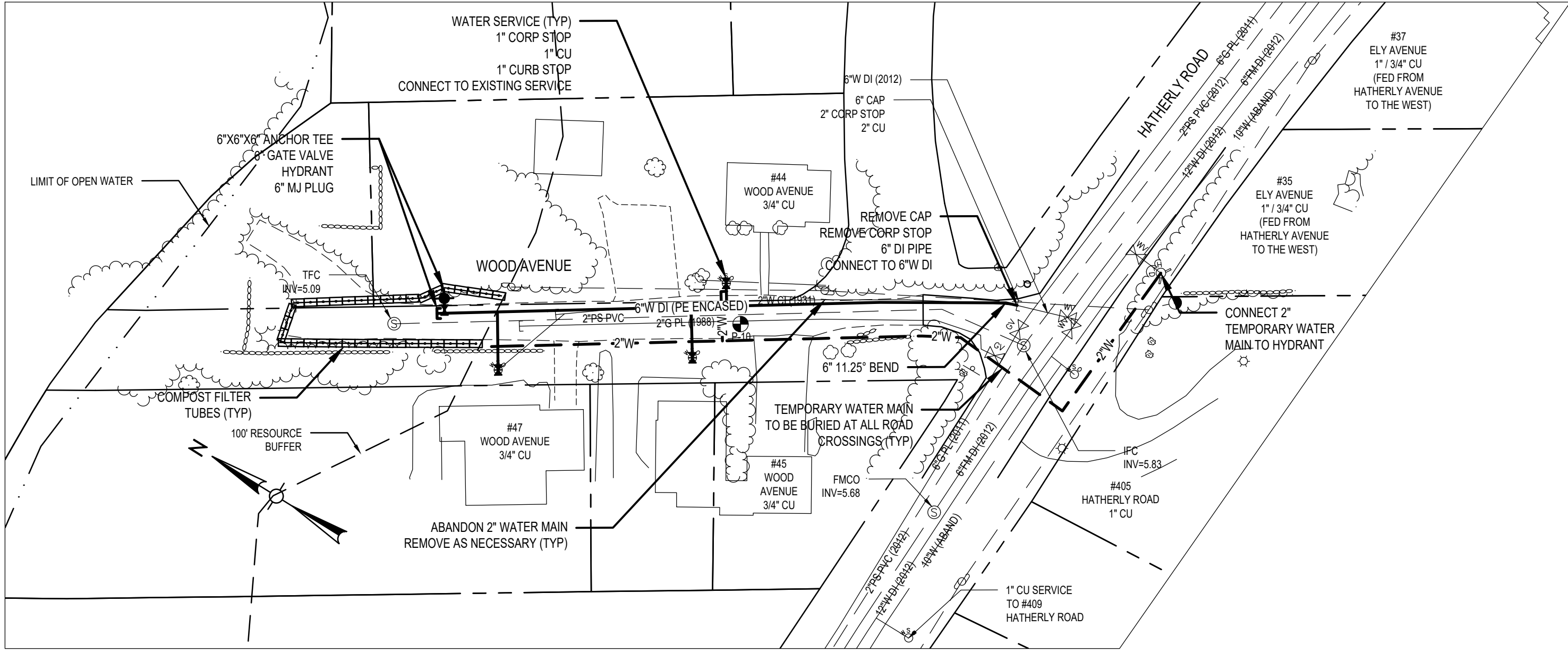
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ABBREVIATIONS,
NOTES AND LEGEND

Sheet Number:

C001

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PHASE 4A

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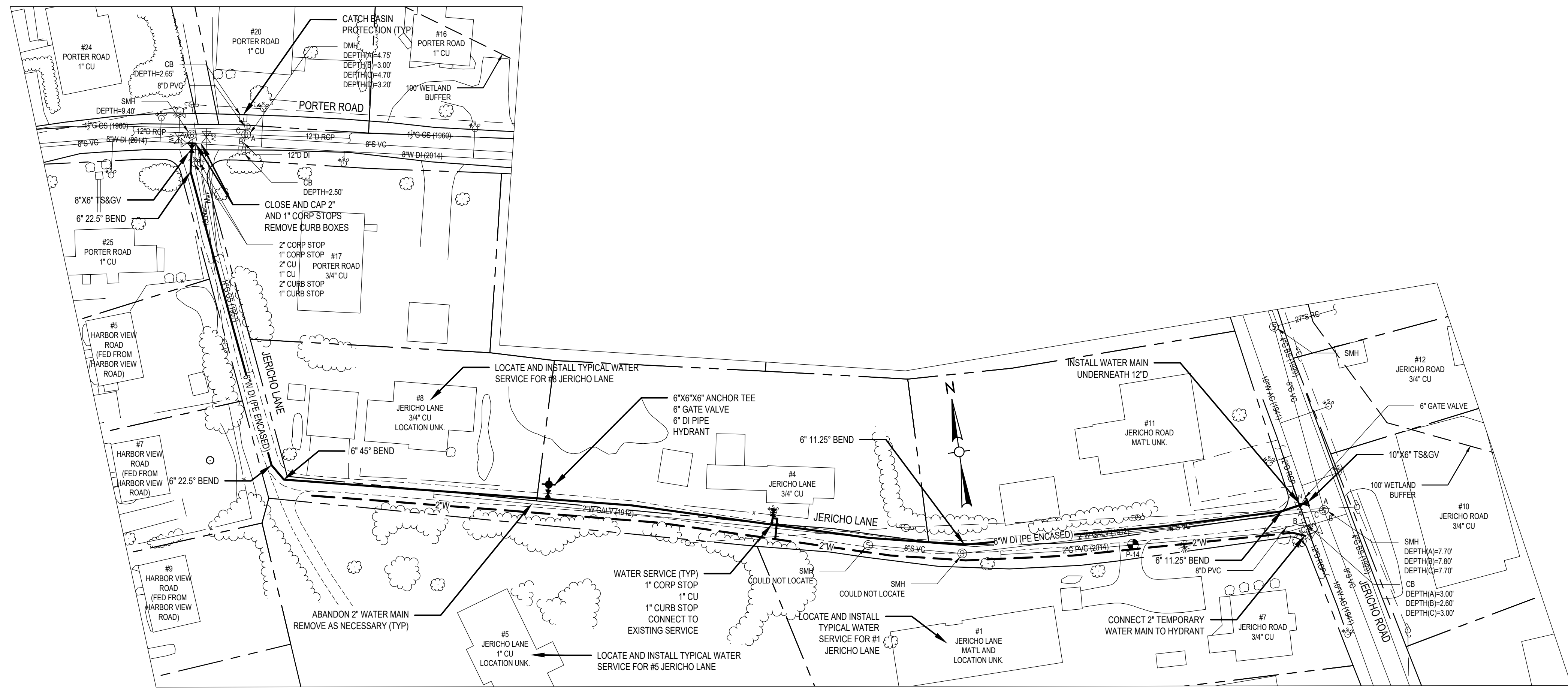
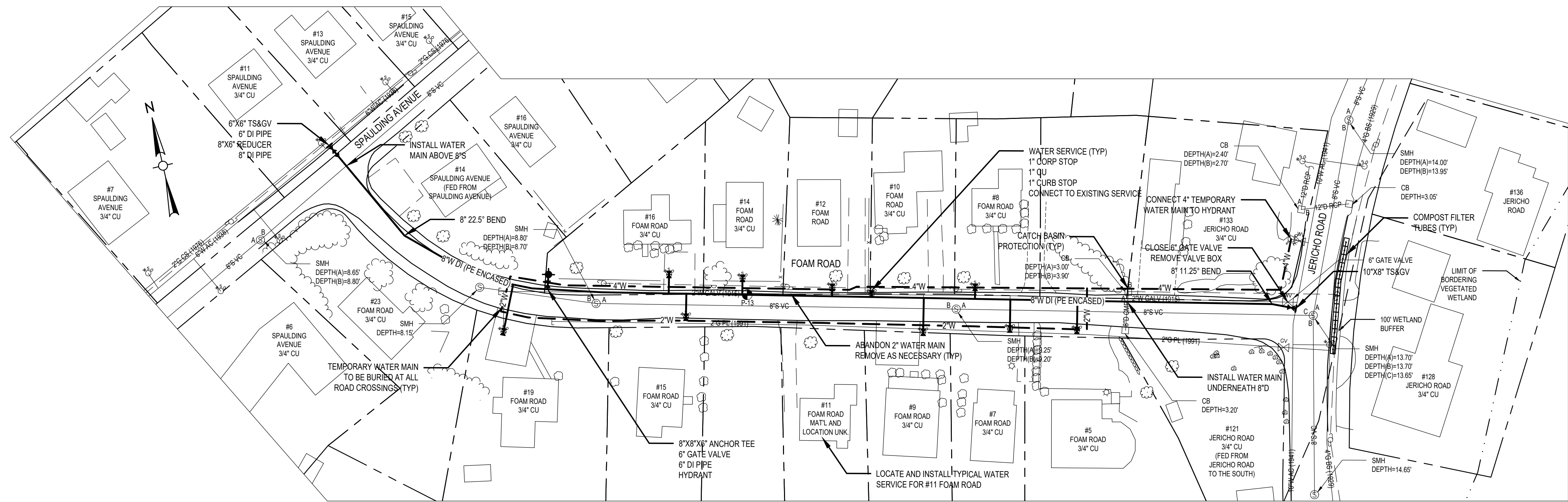
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Drawing Title:

WOOD AVENUE
AND
RAINBOW COURT

Sheet Number:

C101



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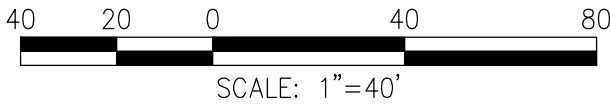
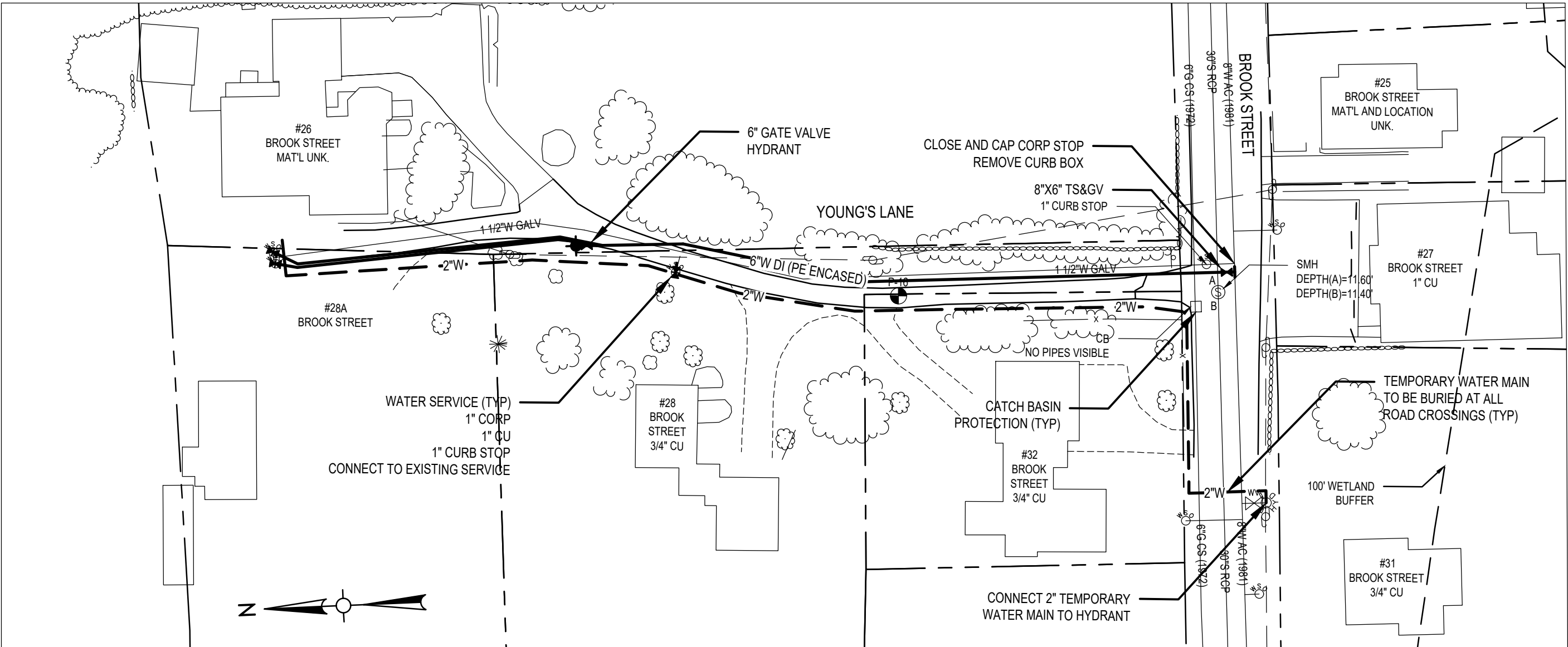
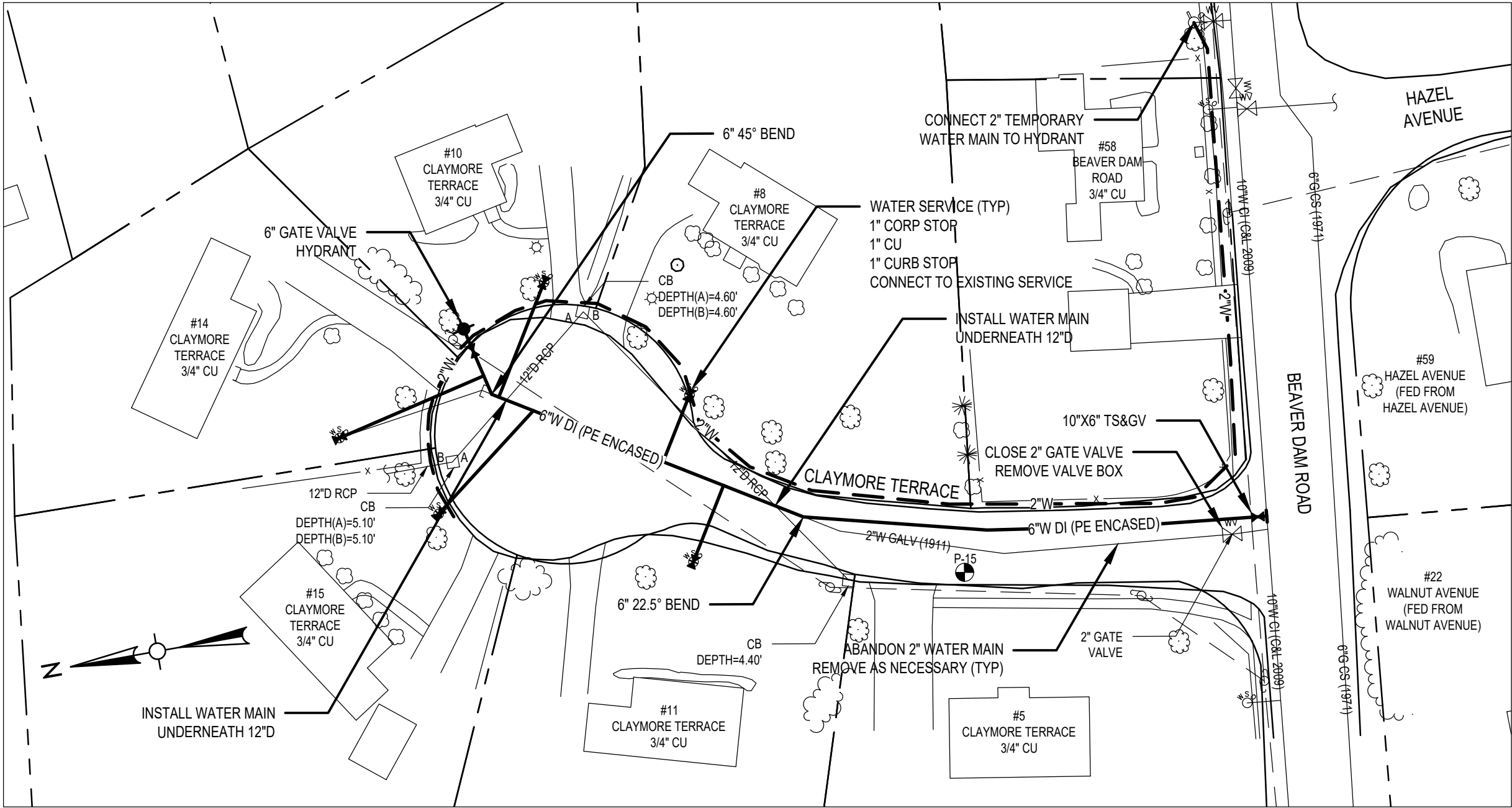
W&S Project No.: 2191157
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Drawing Title:

**FOAM ROAD
AND
JERICHO LANE**

Sheet Number:

C102



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TOWN OF SCITUATE, MA



WATER MAIN REPLACEMENT
PHASE 4A

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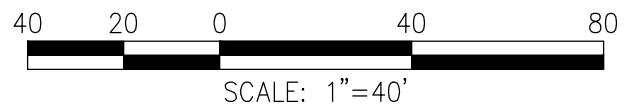
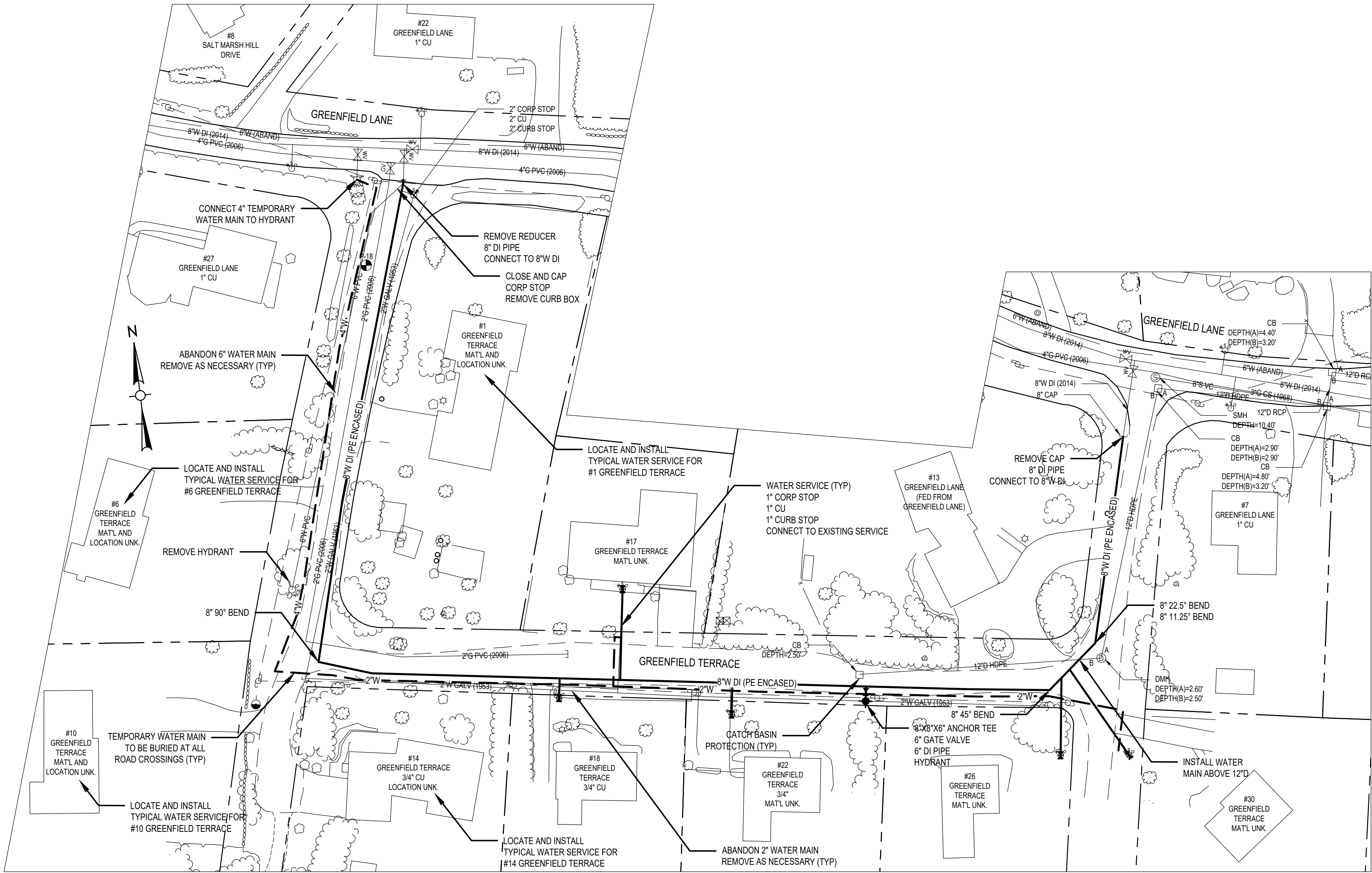
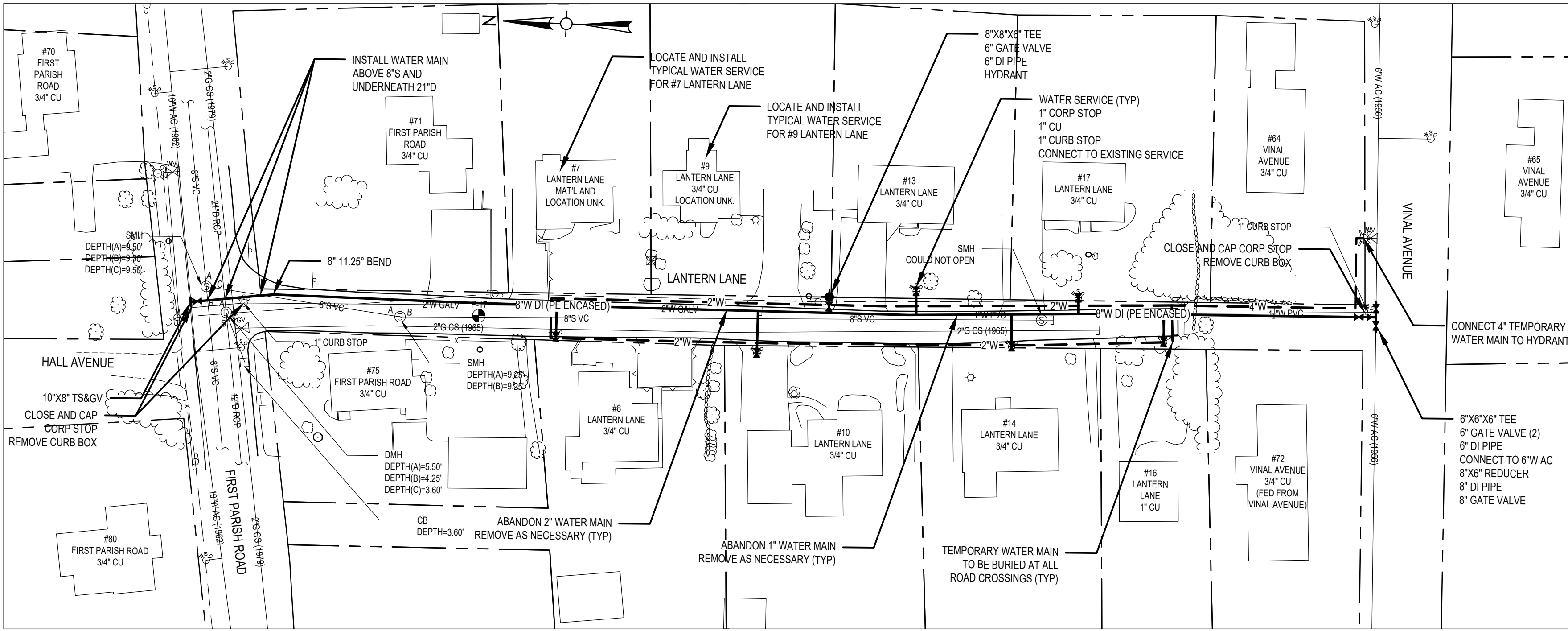
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Drawing Title:

**CLAYMORE TERRACE
AND
YOUNG'S LANE**

Sheet Number:

C103



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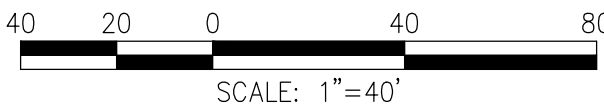
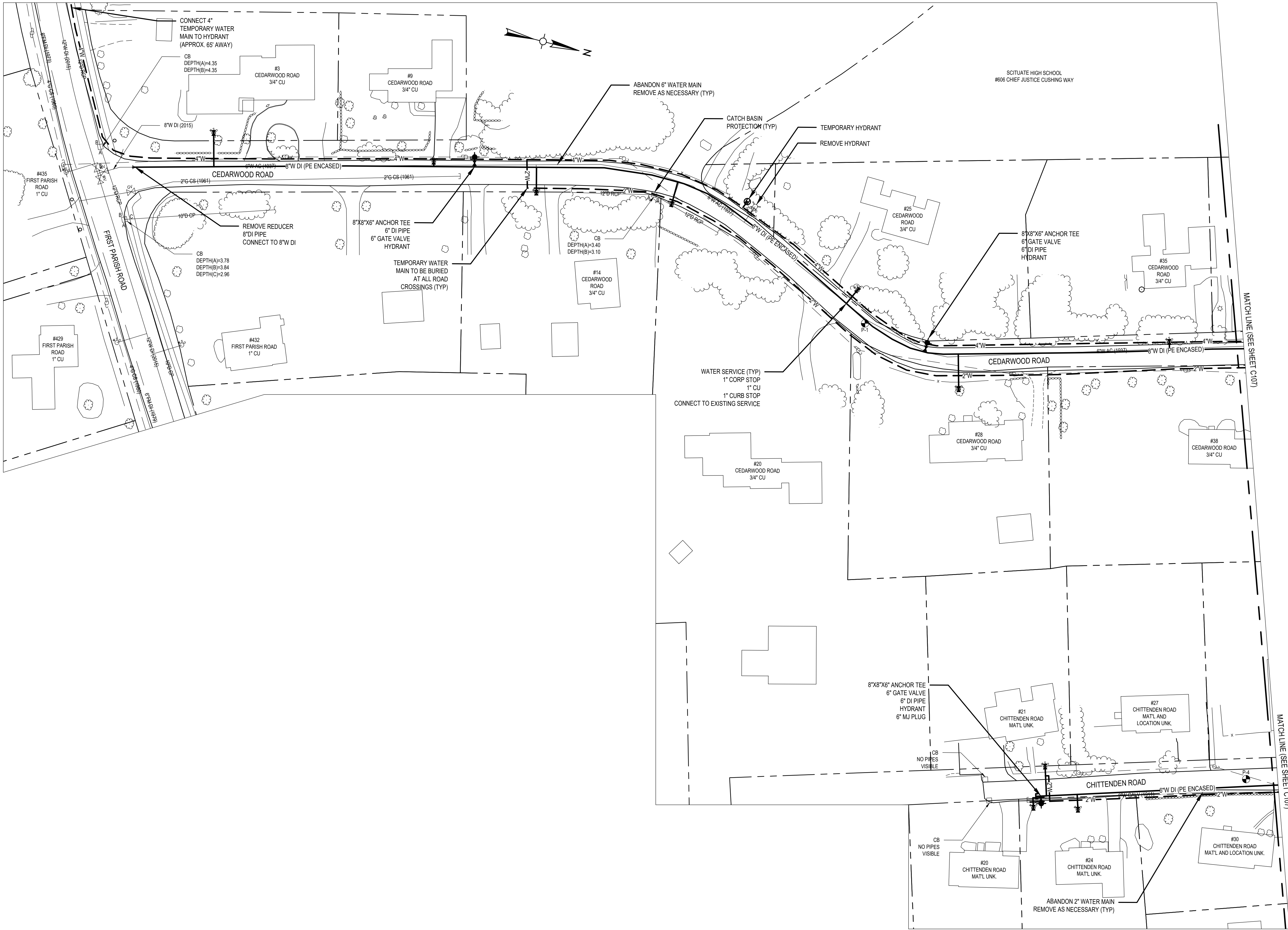
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**LANTERN LANE
AND
GREENFIELD
TERRACE**

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C104



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TOWN OF SCITUATE, MA



WATER MAIN REPLACEMENT
PHASE 4A

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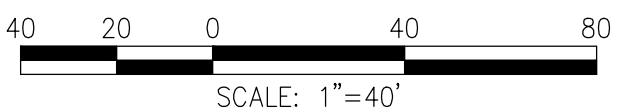
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Scale: 1"=40'
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Drawn By: CMA
Reviewed By: BWA
Approved By: BWA
W&S Project No.: 2191157
W&S File No.: --

Drawing Title:
**CEDARWOOD ROAD
AND
CHITTENDEN ROAD**

Sheet Number:
C106



TOWN OF SCITUATE, MA



WATER MAIN REPLACEMENT
PHASE 4A

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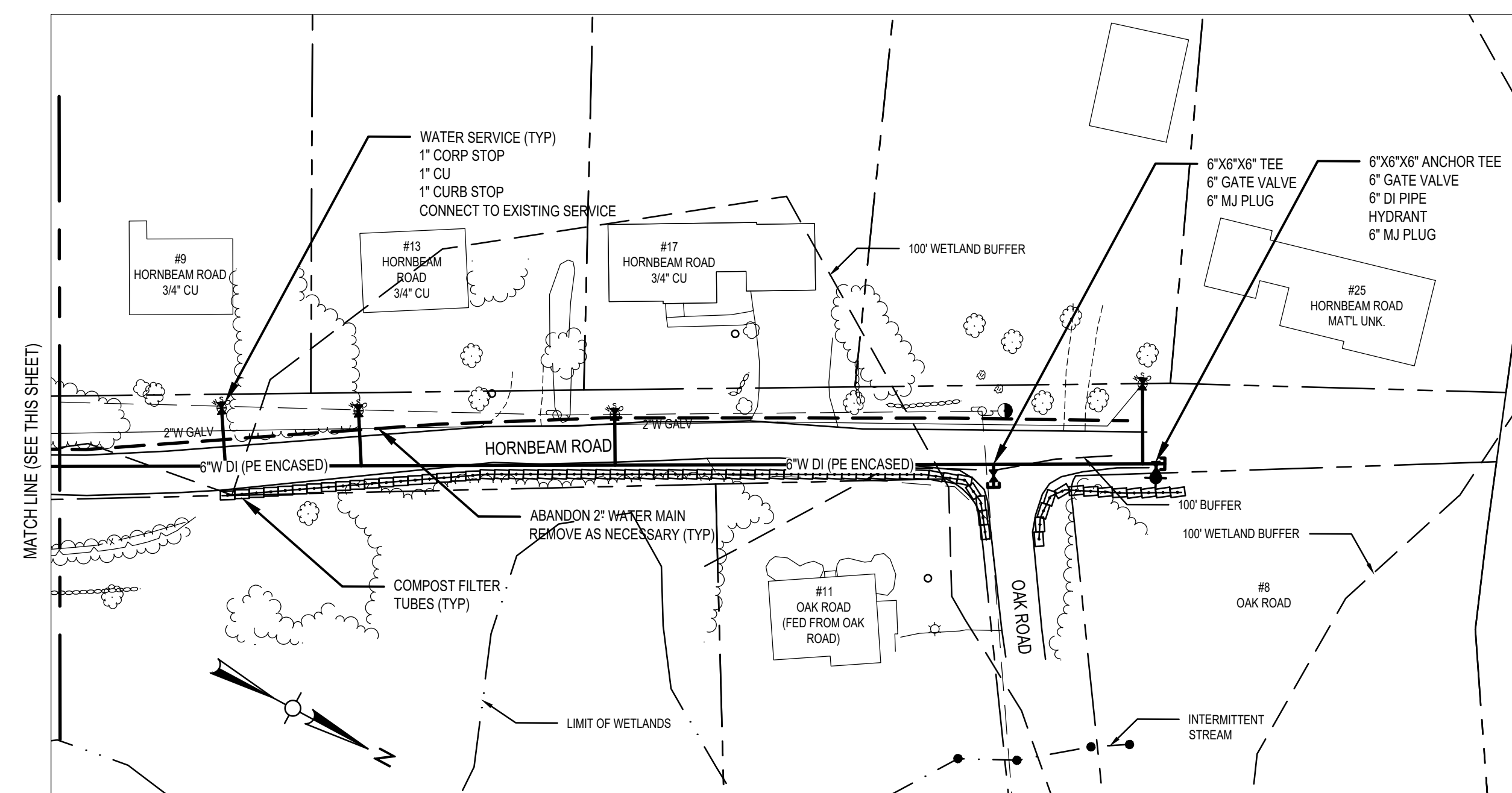
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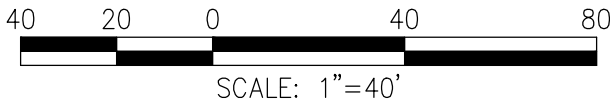
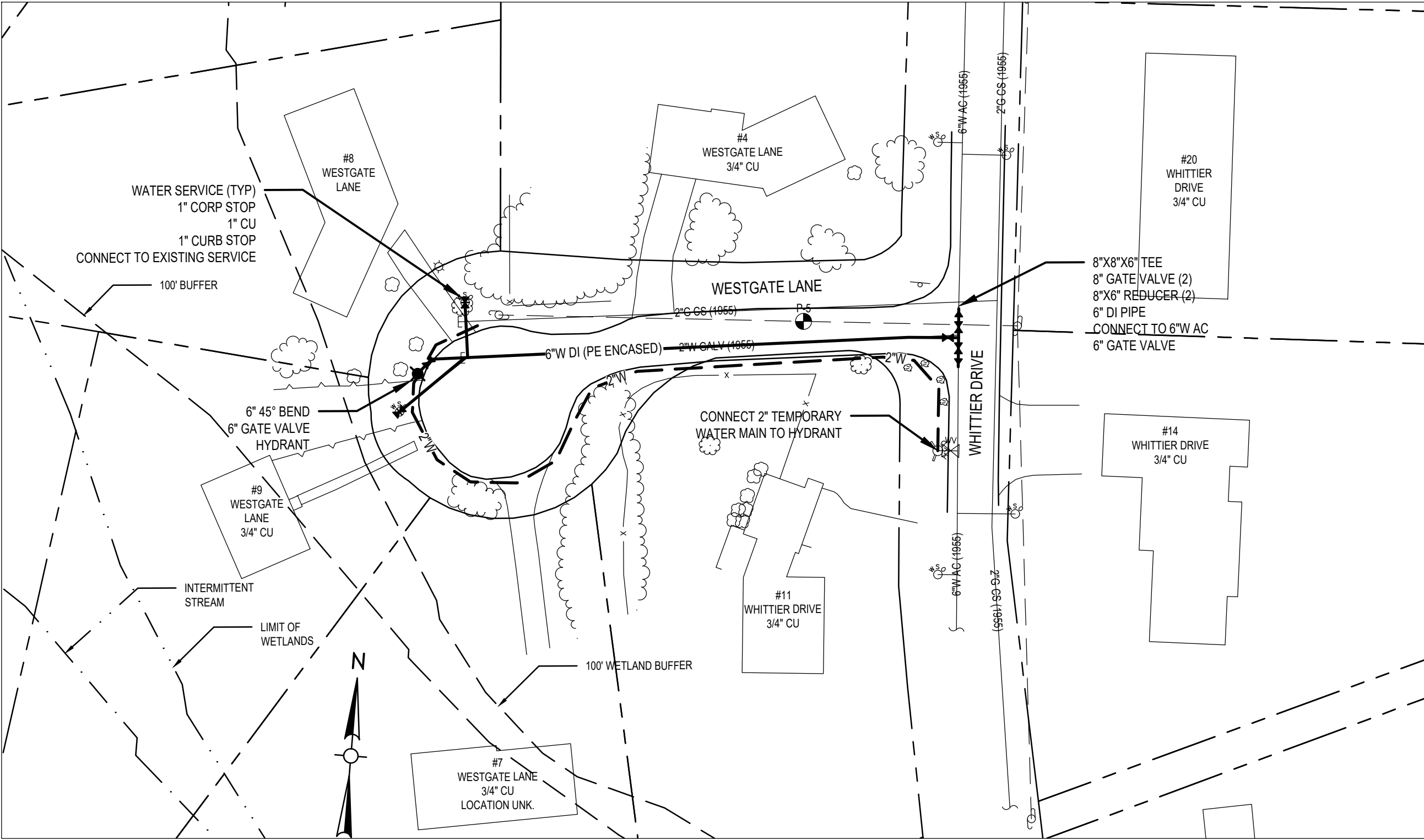
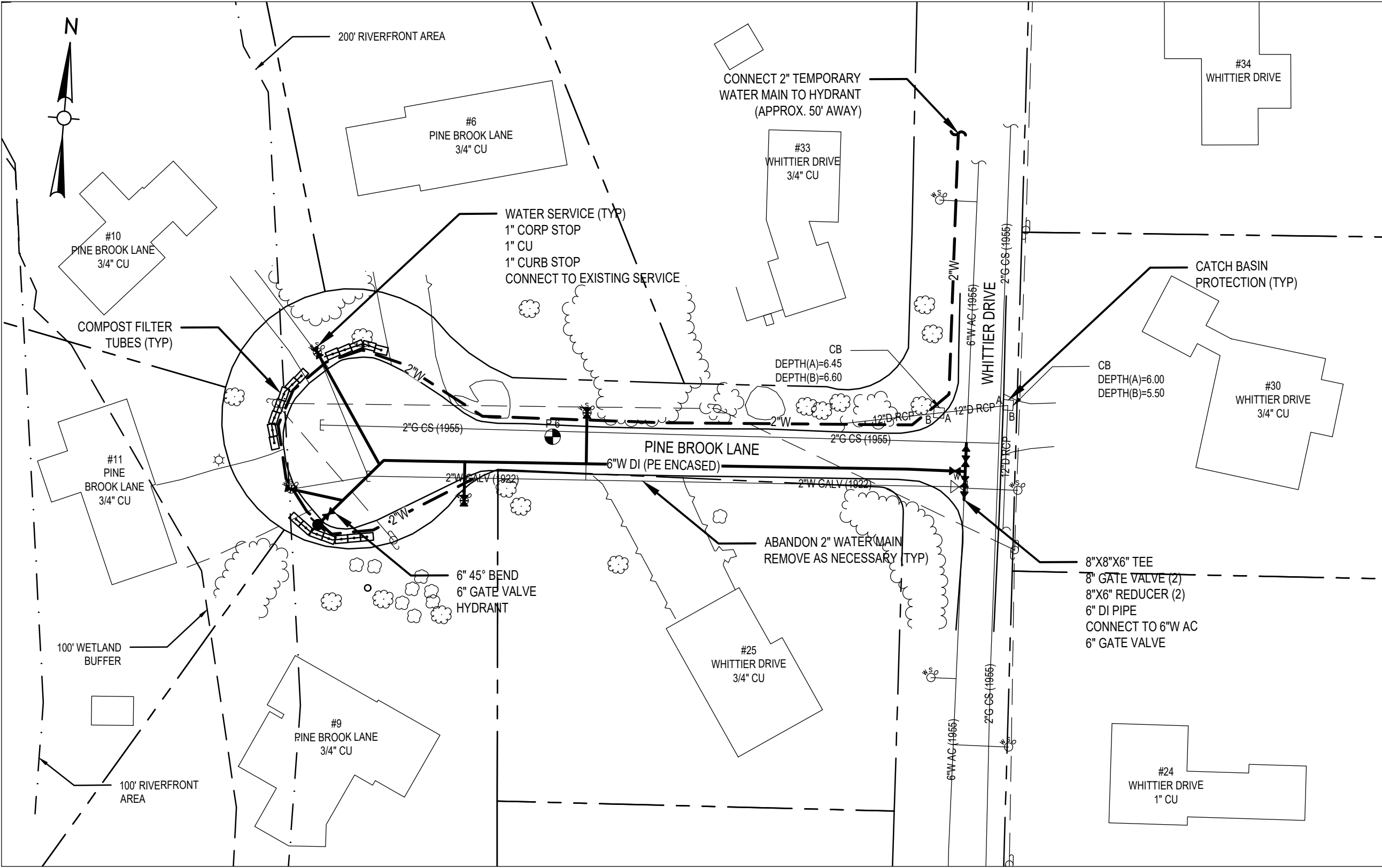
Drawing Title

CEDARWOOD ROAD,
CHITTENDEN ROAD,
FAIRVIEW AVENUE,
UTILITY ROAD AND
BROWN ROAD

Sheet Number

C107





Project:

TOWN OF SCITUATE, MA



WATER MAIN REPLACEMENT
PHASE 4A

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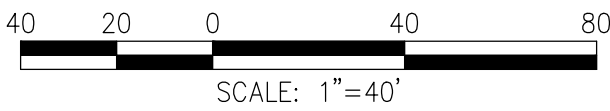
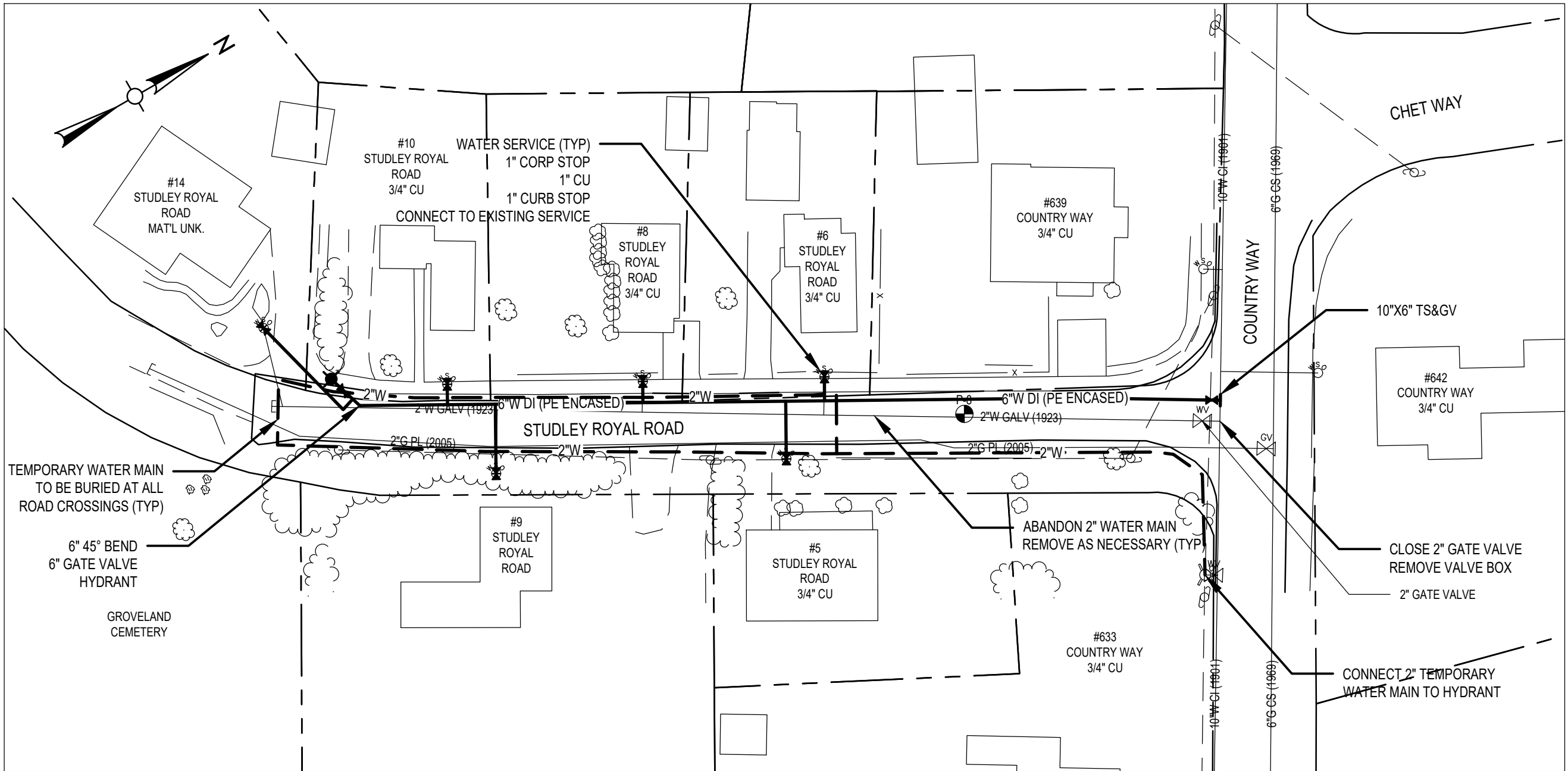
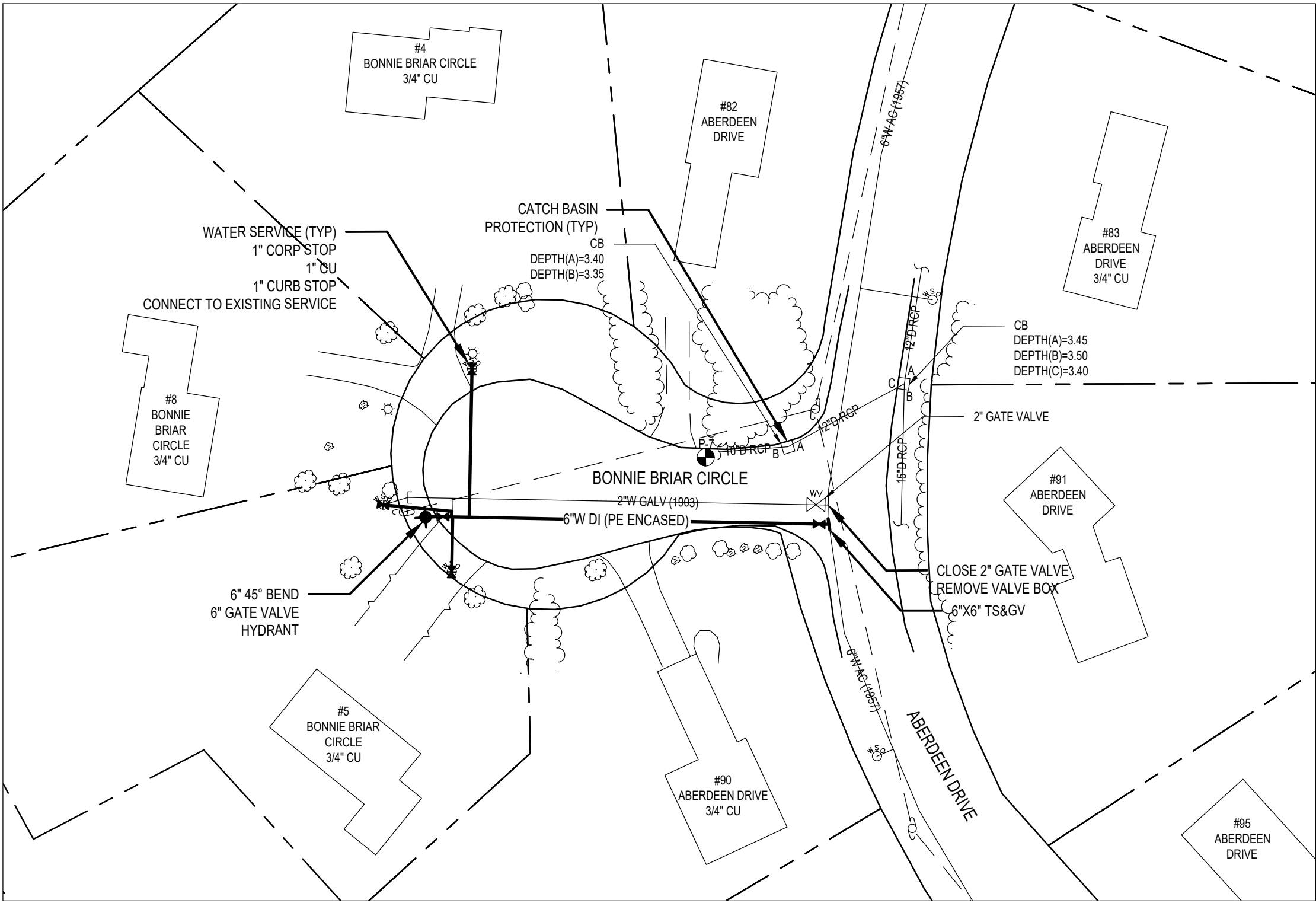
Drawing Title:

**PINE BROOK LANE
AND
WESTGATE LANE**

Sheet Number:

C109

\\w03\corporate\projects\scituate\main\water main replacement 2013\phase 4\phase 4a\cadd\plot sheets\c110.ctb Sheet 1.dwg



Project:

TOWN OF SCITUATE, MA



WATER MAIN REPLACEMENT
PHASE 4A

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Drawing Title:

BONNIE BRIAR
CIRCLE
AND
STUDLEY ROYAL
ROAD

Sheet Number:

C110

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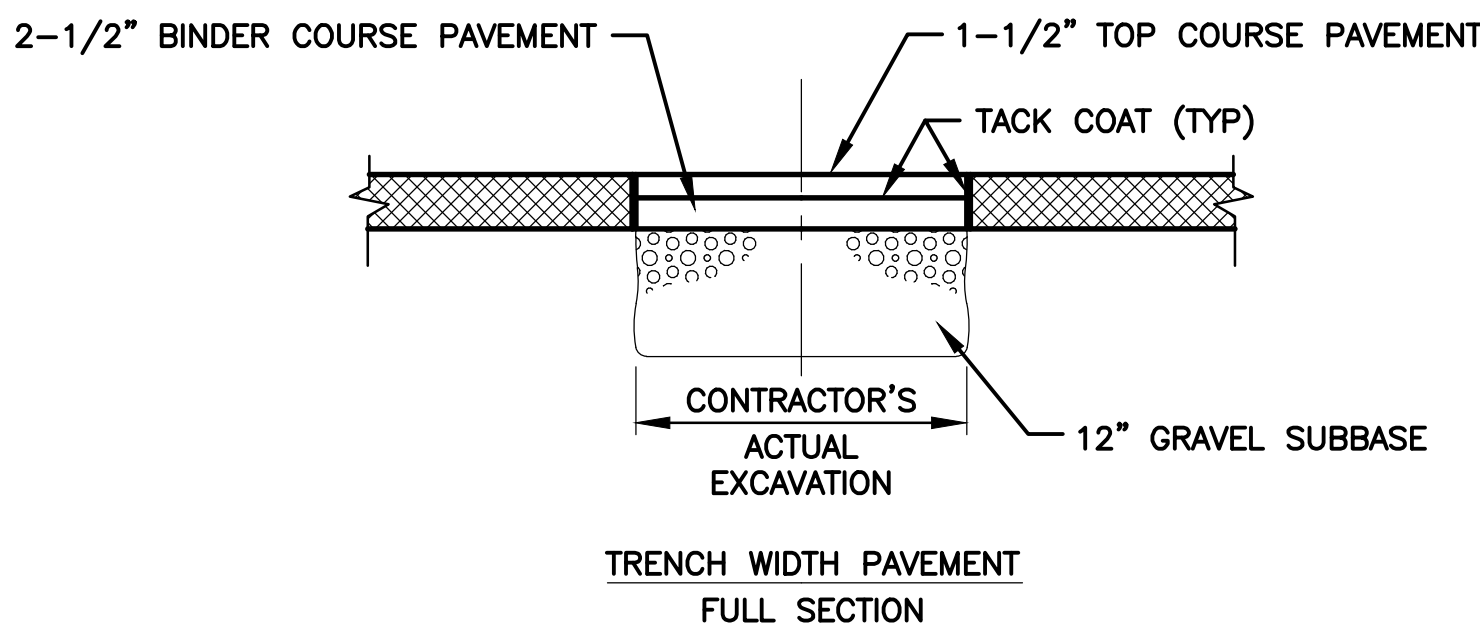
N.T.S.



- N.T.S.

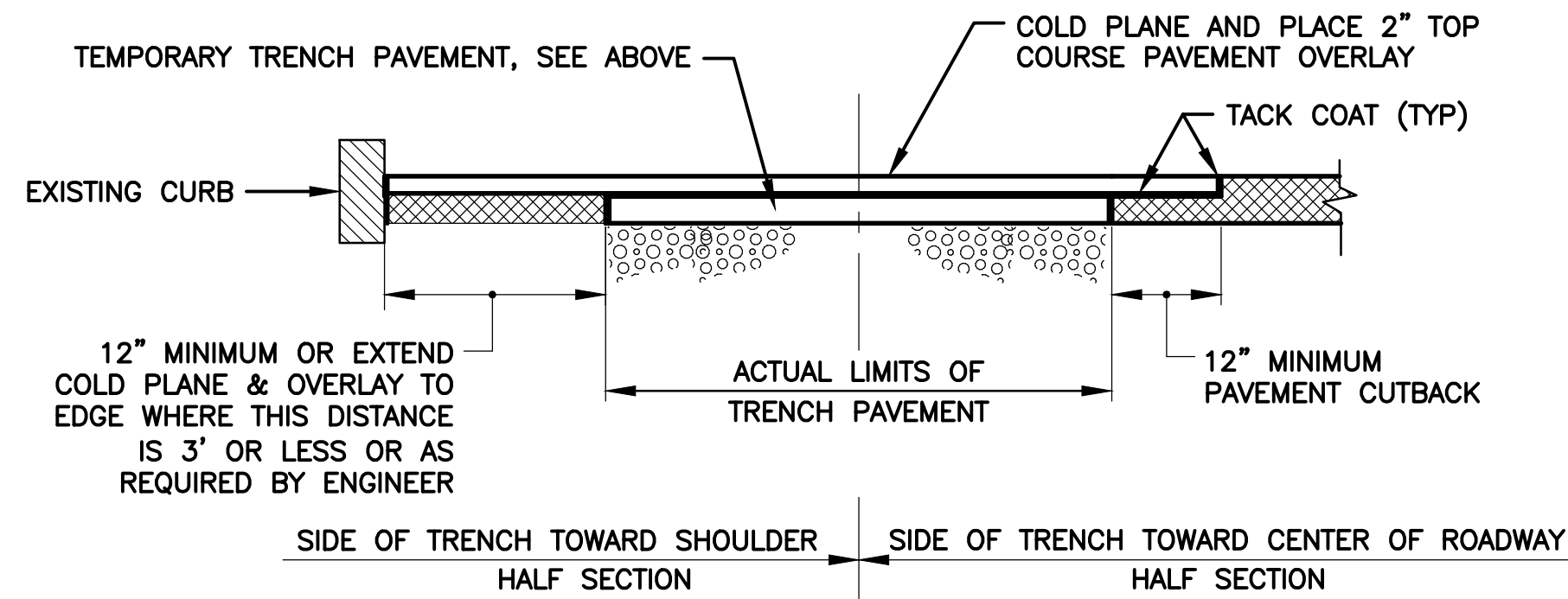


CATCH BASIN PROTECTION DETAIL
N.T.S.

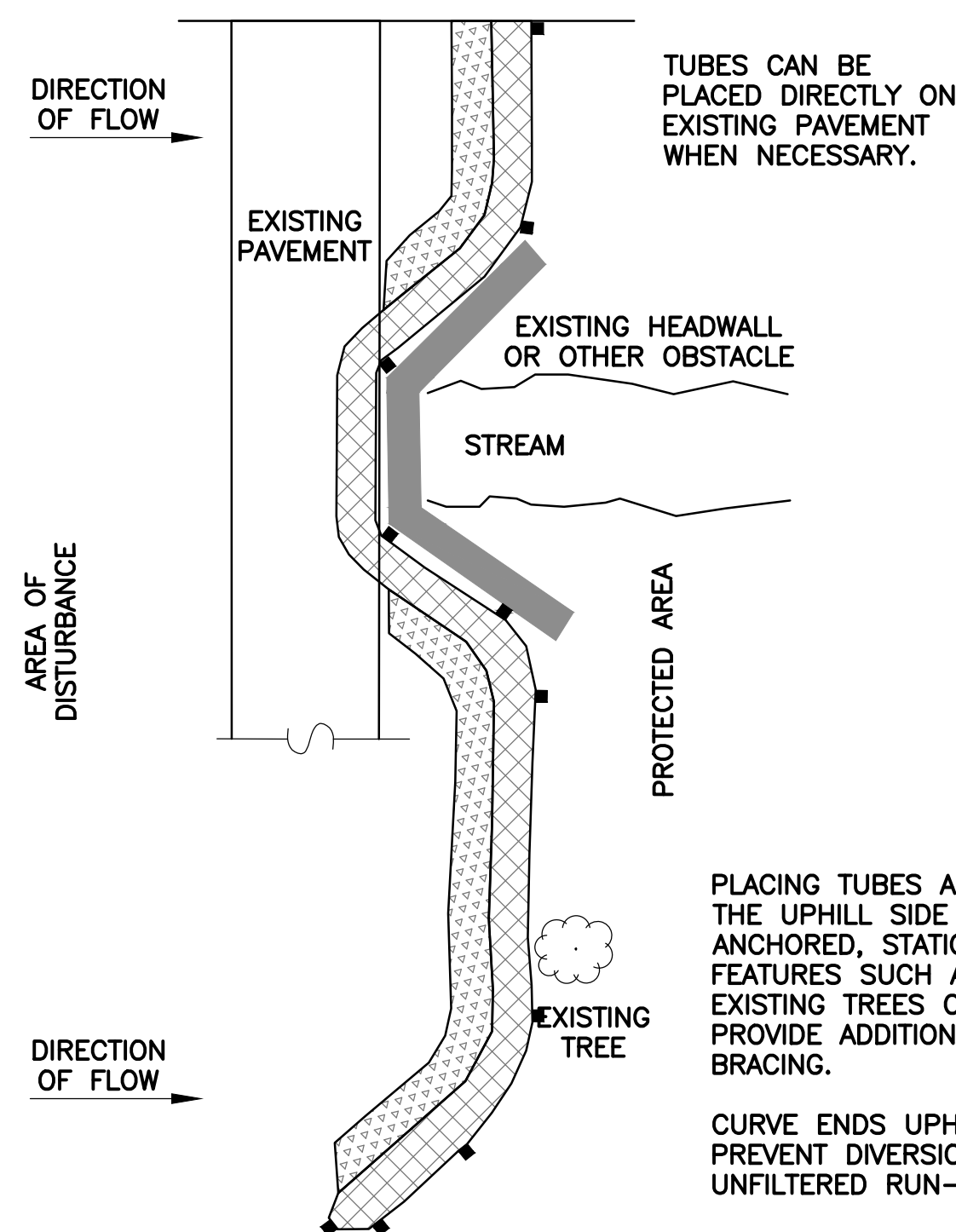
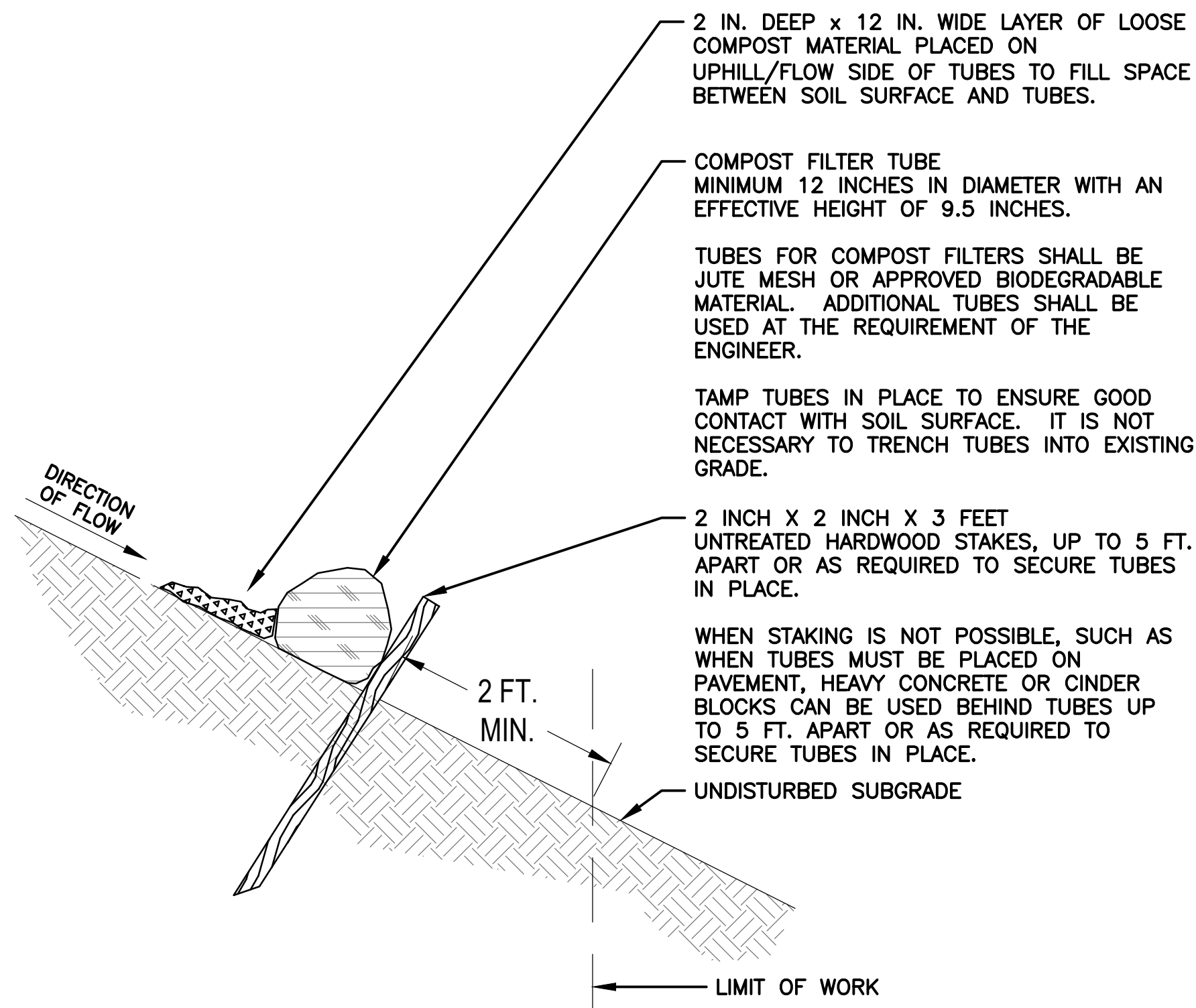


**TYPE 1. TEMPORARY TRENCH
PAVEMENT DETAIL**
N.T.S.

- NOTES:**
1. COLD PLANE AND 2" OVERLAY TO OCCUR AFTER
TEMPORARY TRENCH PAVEMENT, SEE SECTION 02745



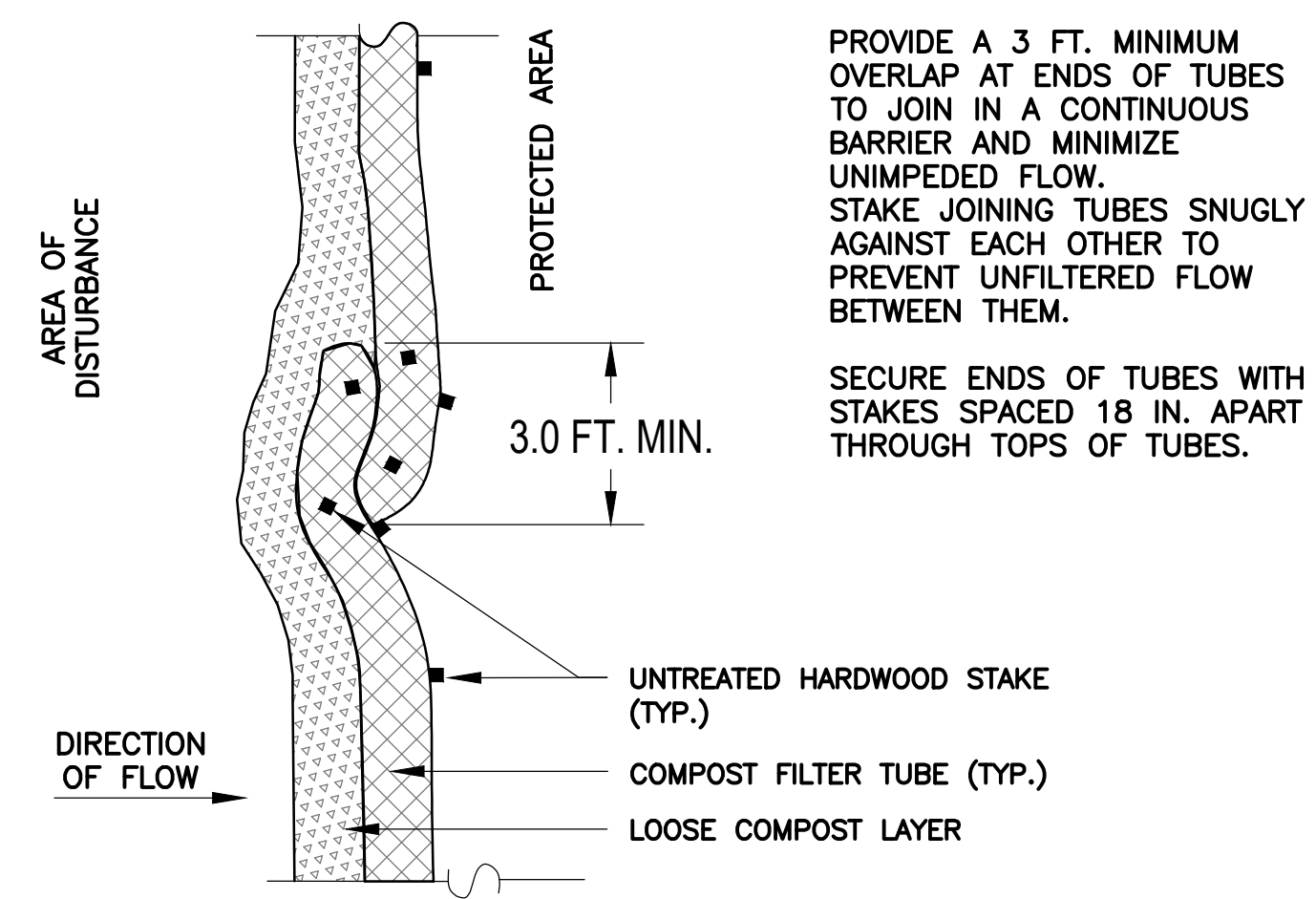
**TYPE 2. PERMANENT TRENCH
PAVEMENT DETAIL**
N.T.S.



SINGLE COMPOST FILTER TUBE DETAIL
N.T.S.

GENERAL NOTES:

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.



PLAN VIEW - JOIN DETAIL

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Drawing Title:
DETAILS II

Sheet Number:
C502

