

# TAYLOR STREET WELL



# LITTLETON WATER DEPARTMENT

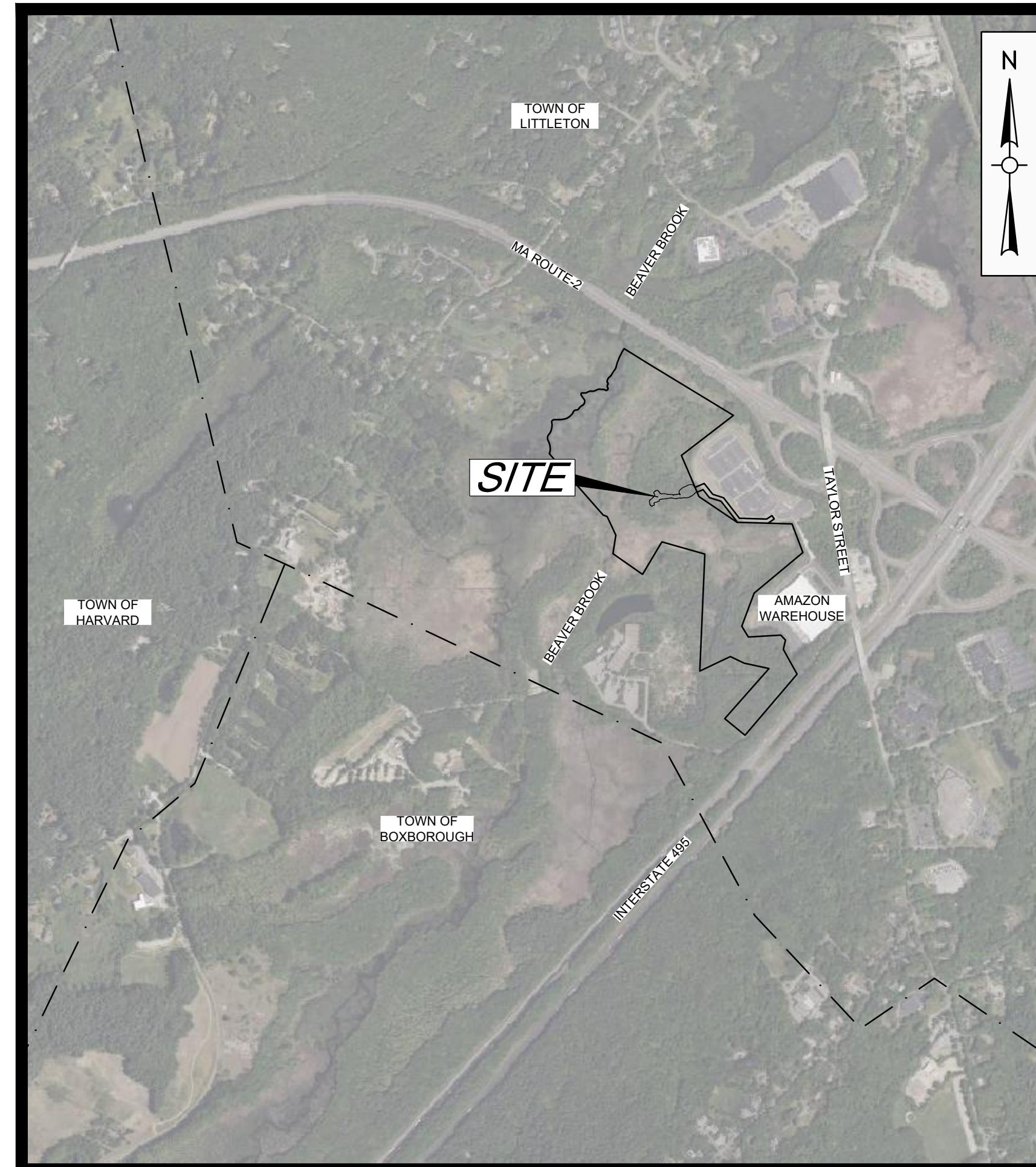
# 39 AYER ROAD

# LITTLETON, MA 01460

# COREY GODFREY, WATER SUPERINTENDENT

**978-540-2222**

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# LOCUS MAP

SCALE : 1"=1000'

Weston & Sampson<sup>SM</sup>

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[www.westonandsampson.com](http://www.westonandsampson.com)

**DECEMBER 14 2023**



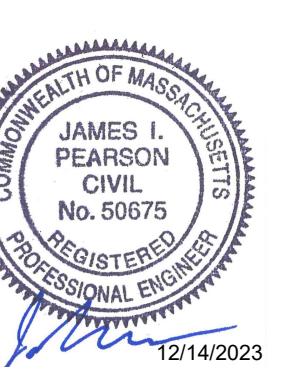
**Know what's below.  
Call before you dig.**

**Issued For:**

# PERMITTING - NOT FOR CONSTRUCTION

Revisions:		
No.	Date	Description
1	12/14/23	PER PEER REVIEW

COA:



Seal:

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Scale: AS NOTED

Date: OCTOBER 2023  
 Drawn By: GJK/RWS  
 Reviewed By: SBR  
 Approved By: TEM  
 W&S Project No.: ENG23-0679  
 W&S File No.:

Drawing Title:

ABBREVIATIONS, NOTES, & LEGEND

Sheet Number: C001

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	—S—	—S—
FORCE MAIN	—FM—	—FM—
WATER MAIN	—W—	—W—
TEMPORARY WATER	—TW—	—TW—
STORM DRAIN	—D—	—D—
GAS	—G—	—G—
ELECTRIC	—E—	—E—
OVERHEAD WIRE	—OHW—	—OHW—
TELEPHONE	—T—	—T—
CABLE TELEVISION	—CATV—	—CATV—
GRINDER PUMP	○	● GP
SANITARY SEWER MANHOLE	◎	● SMH
STORM DRAIN MANHOLE	◎	● DMH
ELECTRICAL MANHOLE	◎	● EMH
TELEPHONE MANHOLE	◎	● TMH
AIR RELEASE VALVE MANHOLE	○	● ARMH
FORCE MAIN CLEANOUT MANHOLE	○	● FMCO
CLEANOUT	○	● CO
CATCH BASIN	□	■ CB
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	—	—
STONE WALL	○○○○○○○○	—
RETAINING WALL	—RET WALL—	—RET WALL—
FENCE	—x—x—	—x—x—
GUARD RAIL	—x—x—	—x—x—
DECIDUOUS TREE	○	○
CONIFEROUS TREE	*	*
TREE LINE	○○○○○	○○○○○
STONE BOUND	□	—
PROPERTY LINE	—	—
EASEMENT LINE	—	—
LIMIT OF WORK	—	—
APPROX. LIMIT OF REFUSE	—	—
SPOT ELEVATIONS	x100.5	x100.5
CONTOUR LINES	— 56 —	— 56 —
HOUSE NUMBER	#35	—
FLOOR ELEVATION	FL=56.7	—
SILL ELEVATION	S=56.7	—
WETLAND FLAGS	WF-7 WF-8	—
100-FT WETLAND BUFFER	—	—
FEMA 100-YR FLOOD PLAIN	—	—
CRUSHED STONE / RIP-RAP	—	—
CRUSHED STONE INFILTRATION TRENCH	—	—
DRAINAGE DITCH / SWALE	—	—
STATION NUMBERING	10	10
GUARD POST	△	▲
BOLLARD	○B	●
SIGN	○	—
BENCH MARK	●	●
PERCOLATION TEST	PT 1	● PT-1
TEST PIT	TP 1	■ TP-1
BORING	B-1	● B-1
PROBE	P-1	● P-1
GROUNDWATER MONITORING WELL	⊕ WS-1	⊕ WS-1
GAS MONITORING WELL	● GMW-1	● GMW-1
WATER WELL / OBSERVATION WELL	○ W	—
GAS VENT	○ GV	● GV
COMPOST FILTER TUBE	—x—x—	—x—x—
COMPOST FILTER TUBE & SILT FENCE	—x—x—	—x—x—
CATCH BASIN FILTER BAG	—	—
ROCK OUTCROP	—	—

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

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCP	ASPHALT COATED CORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE
ASTM	ASTM INTERNATIONAL
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
CMP	CEMENT LINED
CONC	CORRUGATED METAL PIPE
CU FT	CONCRETE
CY	CUBIC FEET
D	CUBIC YARD
DI	DIAMETER
DIA	DRAIN MANHOLE
DMH	DRAWING
DWG	EAST, ELECTRIC
E	EACH
EA	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
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 #	NUMBER
OD	OUTSIDE DIAMETER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END, POLYETHYLENE
PL	PROPERTY LINE
PVC	PLATE
PVCO	POLYVINYL CHLORIDE
PVMT	MOLECULARLY ORIENTED POLYVINYL CHLORIDE
RCP	PAVEMENT
ROW	REINFORCED CONCRETE PIPE
RQD	RIGHT-OF-WAY
S	ROCK QUALITY
SE	SEWER, SOUTH
SECT	SOUTH EAST
SF	SECTION
SHT	SQUARE FEET
SPEC	SHEET
SO FT	SPECIFICATIONS
SS	SQUARE FEET
STA	SEWER SERVICE, STAINLESS STEEL
STL	STATION
SW	STEEL
T	SIDEWALK, SOUTH WEST
TBM	HYDROSTATIC THRUST, TELEPHONE
THK	TEMPORARY BENCH MARK
TYP	THICK (NESS)
UP	TYPICAL
VC	UTILITY POLE
VERT	VITRIFIED CLAY
W	VERTICAL
W/W	WATER, WEST
W/O	WITHOUT

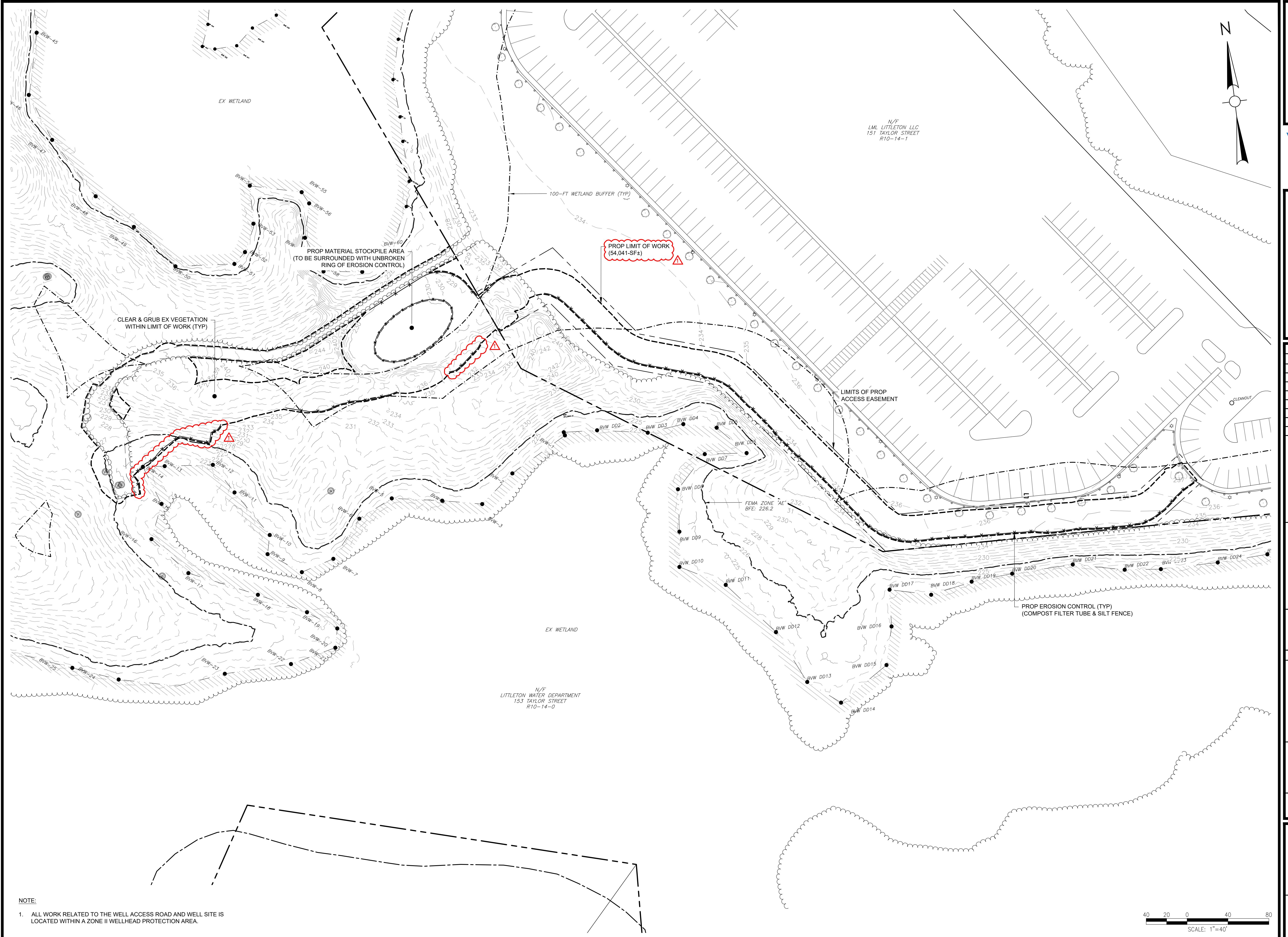
CONSTRUCTION NOTES

1. 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.
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 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.
4. 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.
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. 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.
8. 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.
9. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
10. 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.
11. EXISTING SERVICES SHALL NOT BE CONNECTED TO THE PROPOSED WATER MAIN UNTIL THAT MAIN HAS PASSED PRESSURE TEST AND DISINFECTION REQUIREMENTS.
12. 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.
13. 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.
14. ANY HYDRANT WHICH IS NOT IN SERVICE SHALL BE COVERED WITH A SECURELY FASTENED AND APPROVED BAG.

Sheet Number: C001

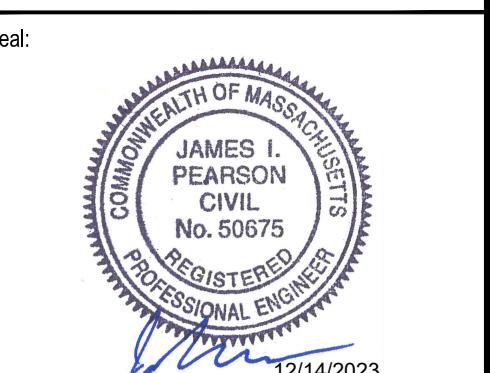


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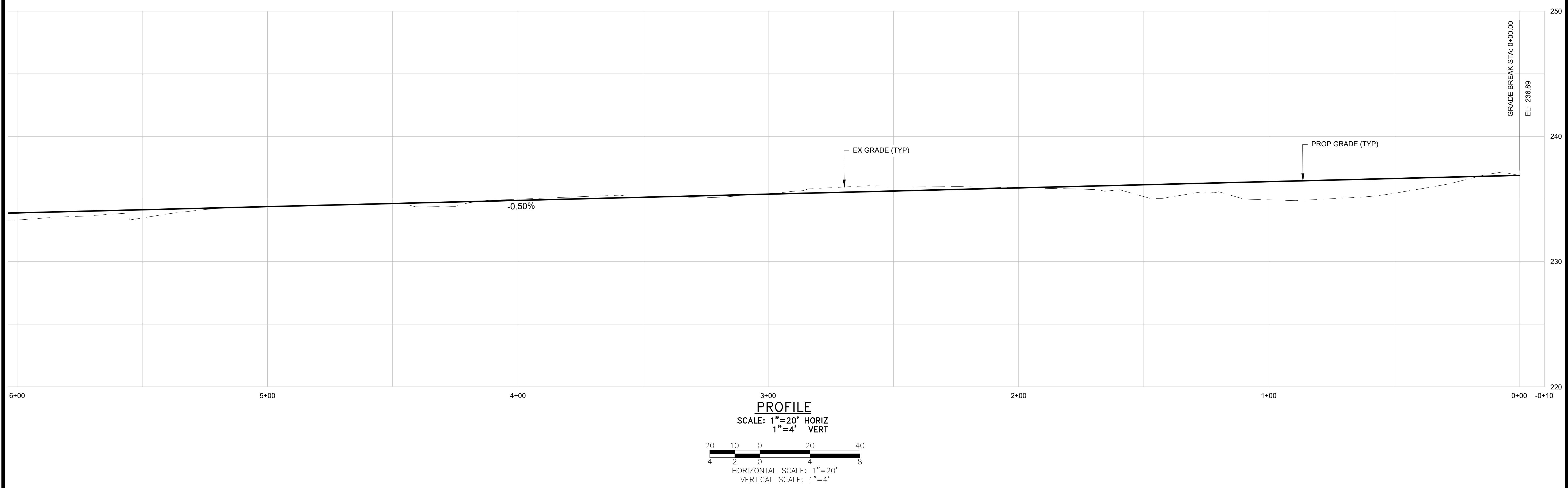
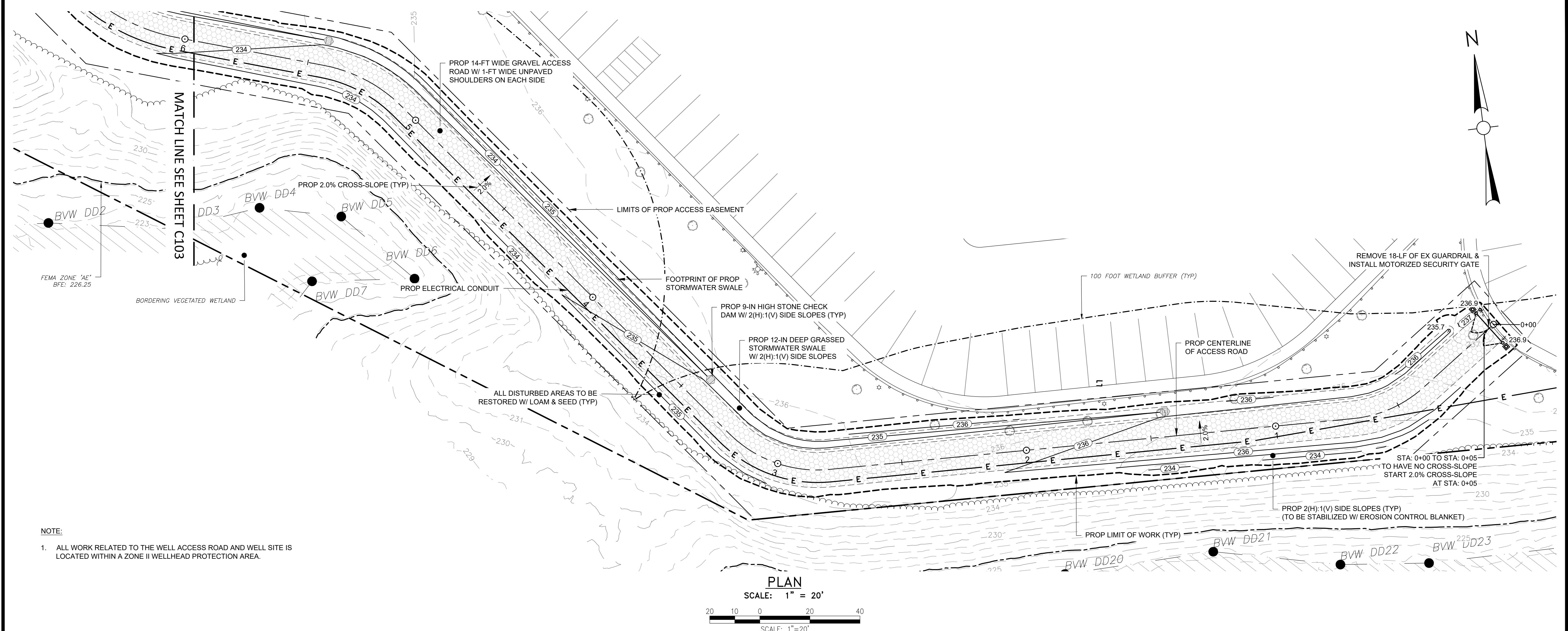
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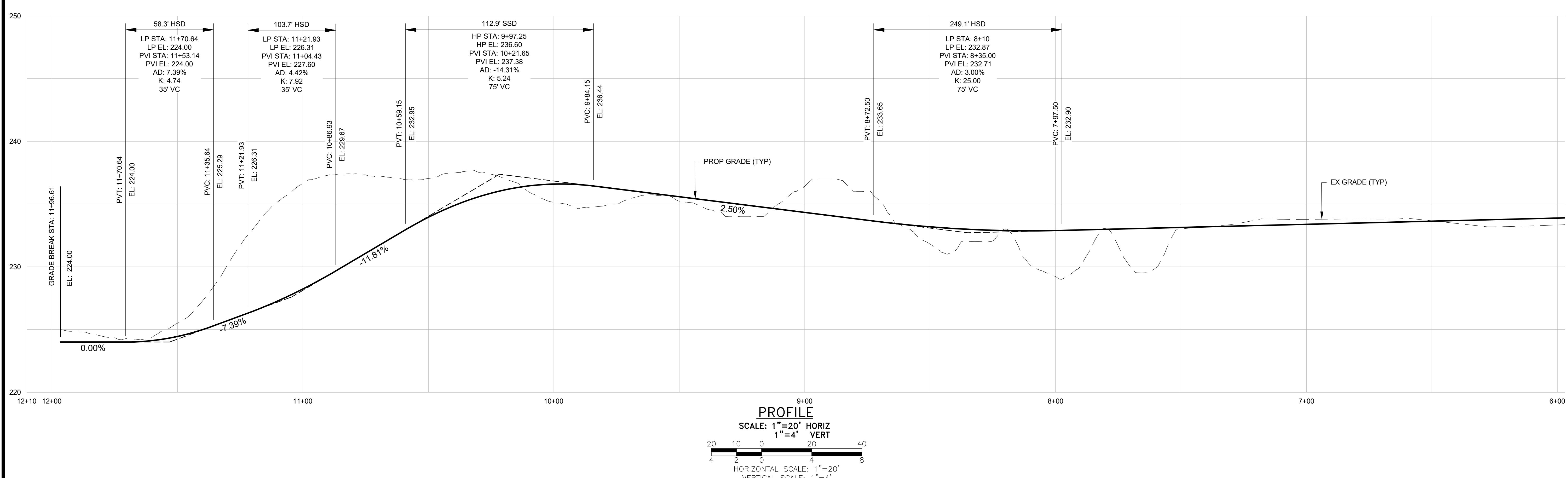
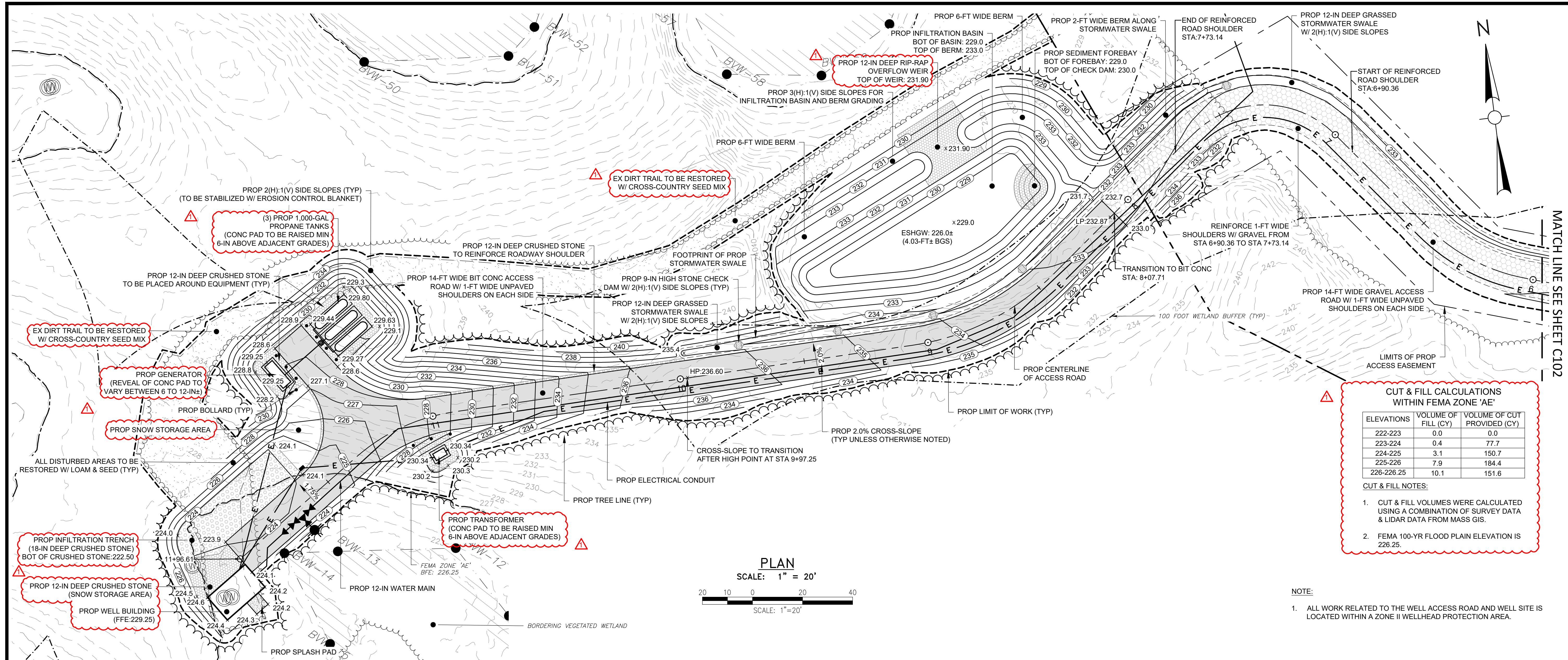
Scale: AS NOTED

Date: OCTOBER 2023  
Drawn By: GJK/RWS  
Reviewed By: SBR  
Approved By: TEM  
W&S Project No.: ENG23-0679  
W&S File No.:

Drawing Title:  
**ACCESS ROAD  
GRADING &  
DRAINAGE PLAN**

Sheet Number:  
**C102**





project:  
**TAYLOR STREET WELL**

**LITTLETON**  
**ELWD**  
ELECTRIC LIGHT & WATER DEPARTMENTS

**LITTLETON WATER  
DEPARTMENT**

The logo for Weston & Sampson Engineers, Inc. It features the company name in a stylized font. 'Weston' is in blue, 'Sampson' is in green, and the ampersand (&) is also green. A small 'SM' is in the top right corner of the 'Sampson' text.

### Consultants:

ITIONS	VOLUME OF FILL (CY)	VOLUME OF CUT PROVIDED (CY)
223	0.0	0.0
224	0.4	77.7
225	3.1	150.7
226	7.9	184.4
26.25	10.1	151.6

## ALL NOTES:

ST & FILL VOLUMES WERE CALCULATED  
USING A COMBINATION OF SURVEY DATA  
AND DATA FROM MASS GIS.

TE:  
ALL WORK RELATED TO THE WELL ACCESS ROAD AND WELL SITE IS LOCATED WITHIN A ZONE II WELLHEAD PROTECTION AREA.

A circular seal with a serrated outer edge. The outer ring contains the text "COMMONWEALTH OF MASSACHUSETTS" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The inner circle contains "JAMES I. PEARSON" on top, "CIVIL" in the middle, and "No. 50675" at the bottom. A blue signature is written across the bottom of the seal.

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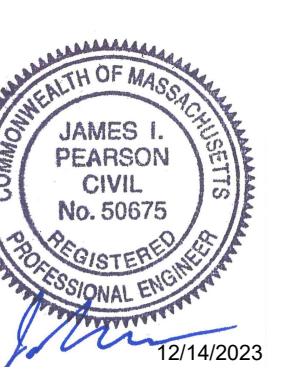
drawing Title:

# WELL SITE AND ACCESS ROAD GRADING & DRAINAGE PLAN

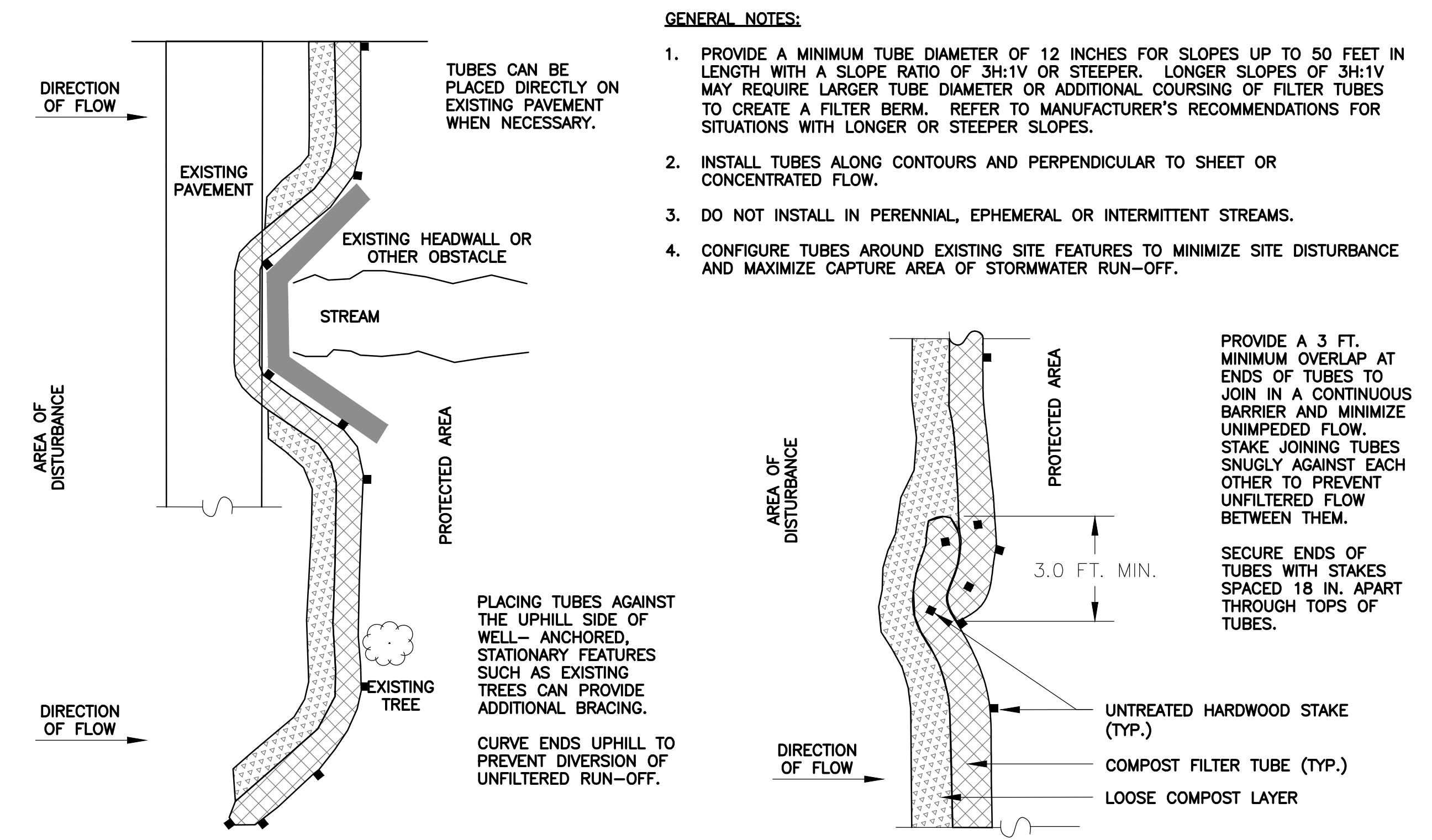
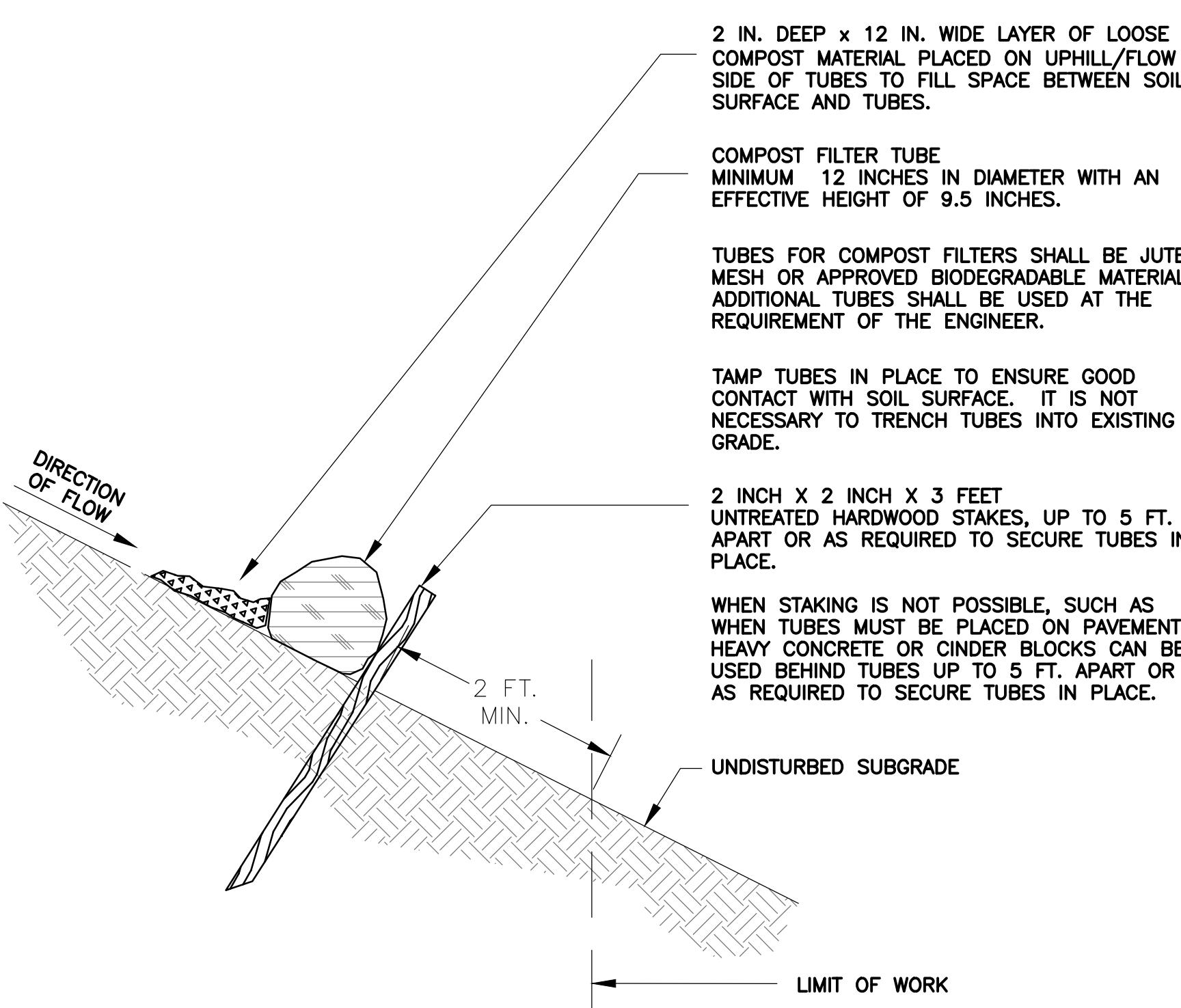
Sheet Number:

C103

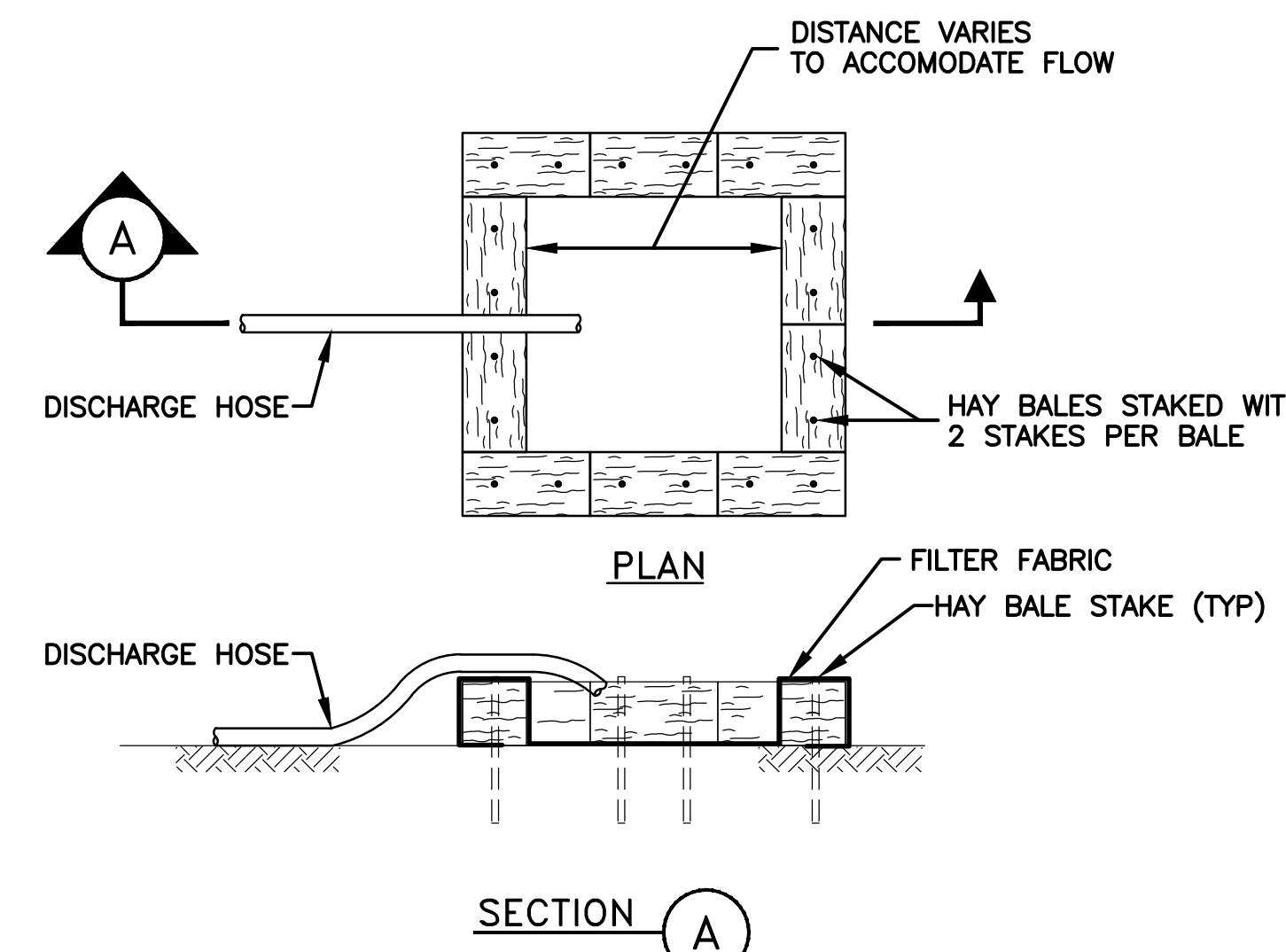
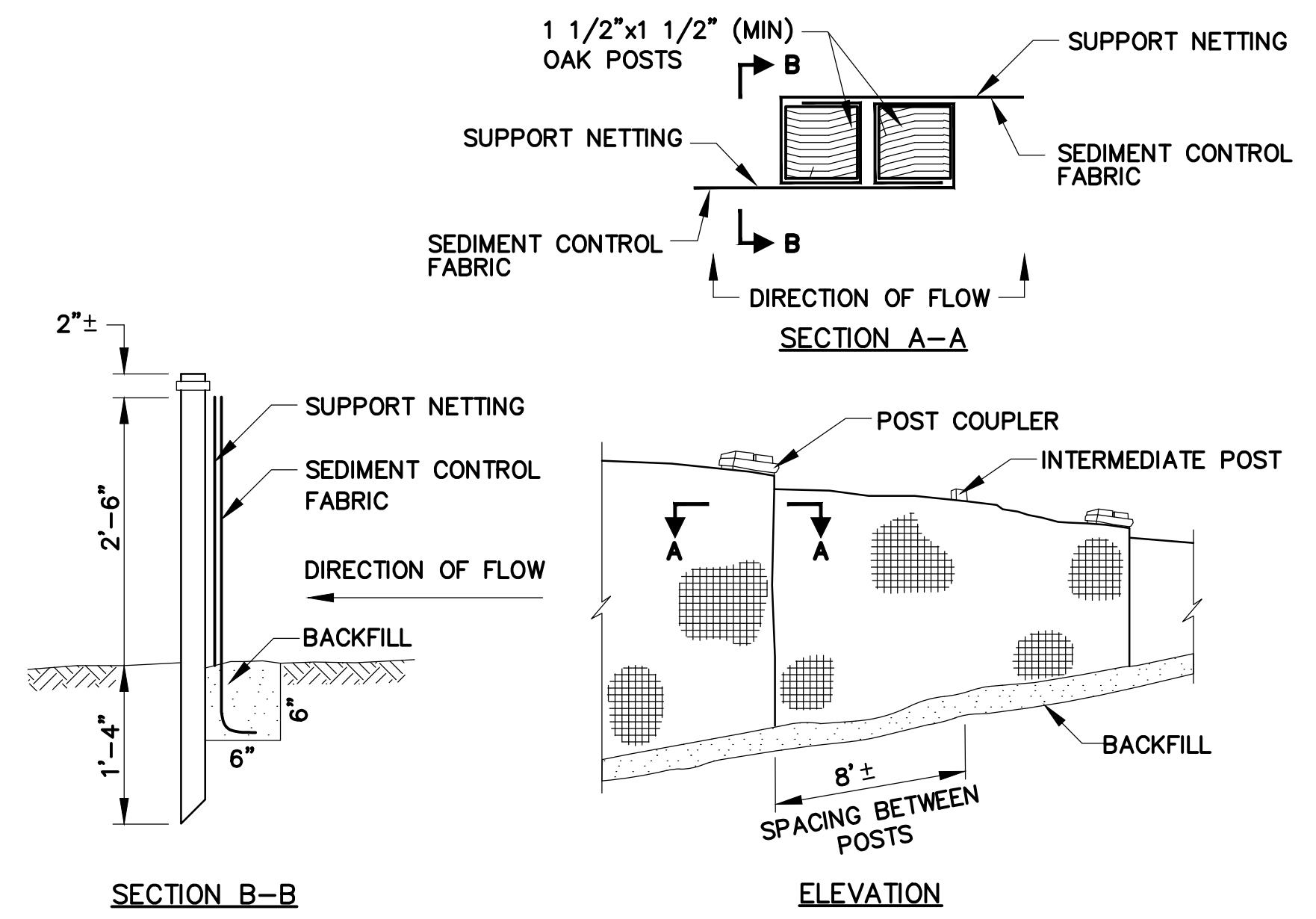
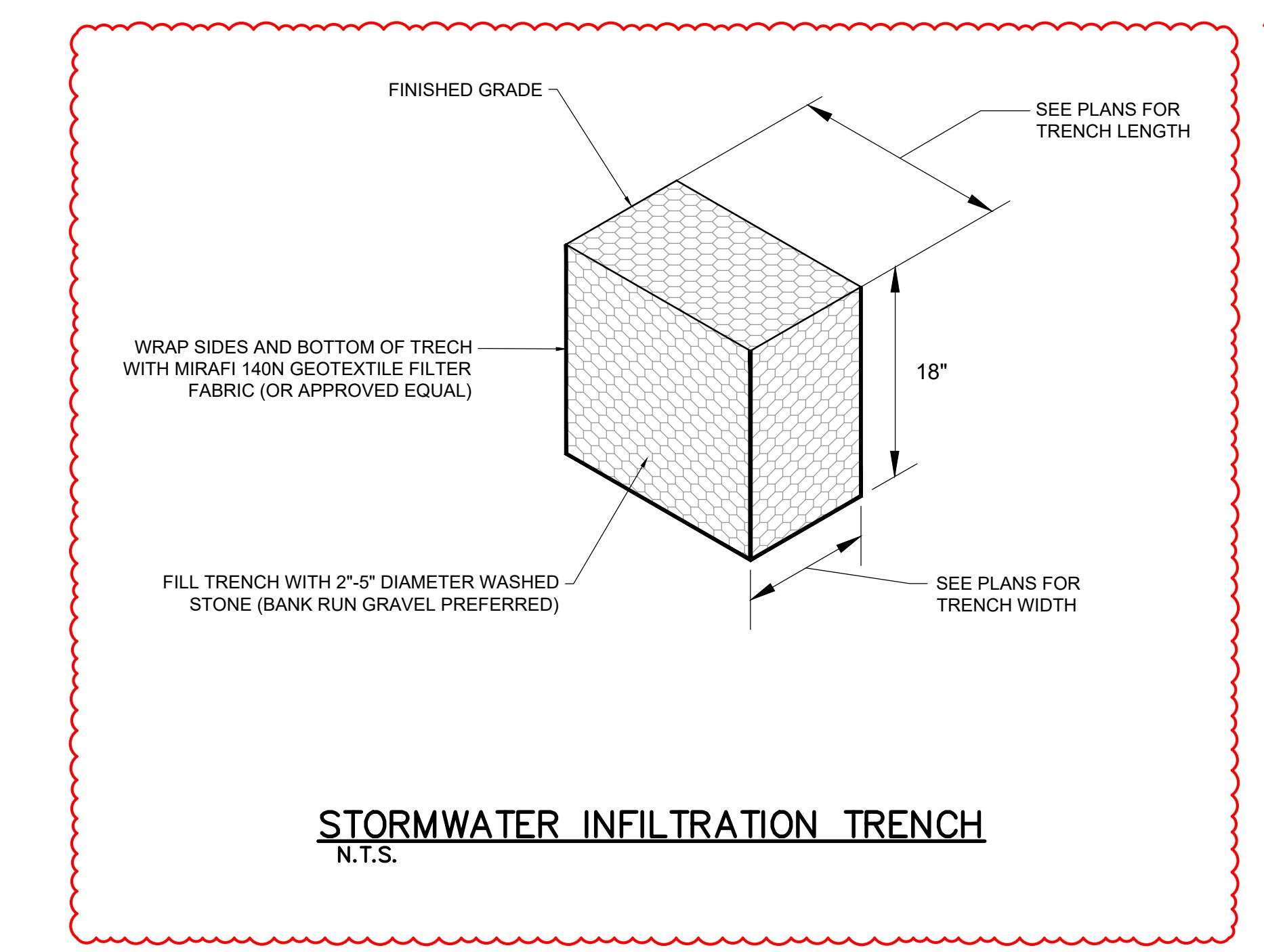
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CONSTRUCTION DETAILSSheet Number:  
**C501**
**SINGLE COMPOST FILTER TUBE DETAIL**

NOT TO SCALE


**DEWATERING DISCHARGE DISPOSAL DETAIL**  
 N.T.S.

**SILT FENCE DETAIL**  
 N.T.S.

**STORMWATER INFILTRATION TRENCH**  
 N.T.S.



