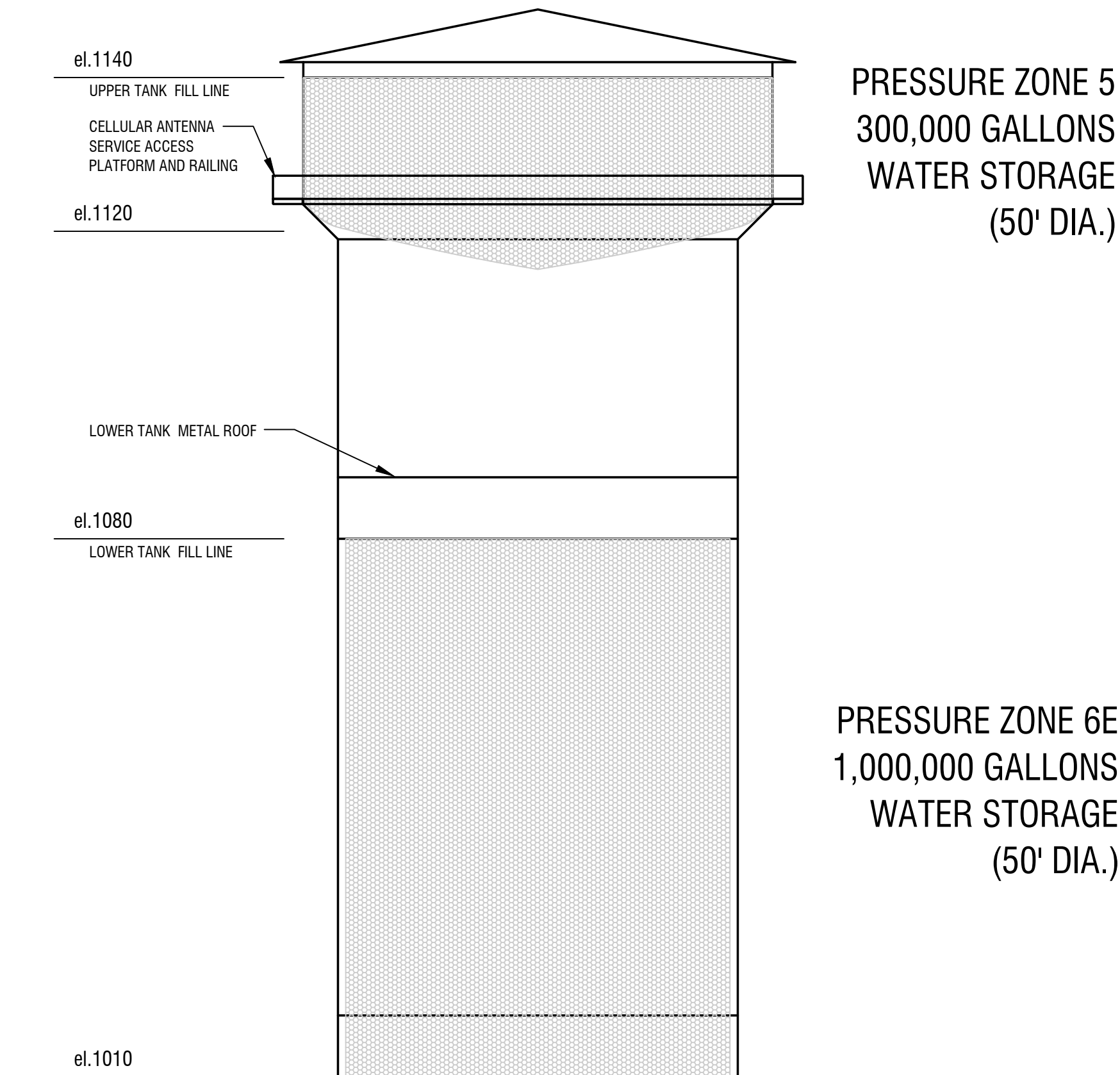


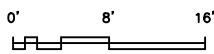


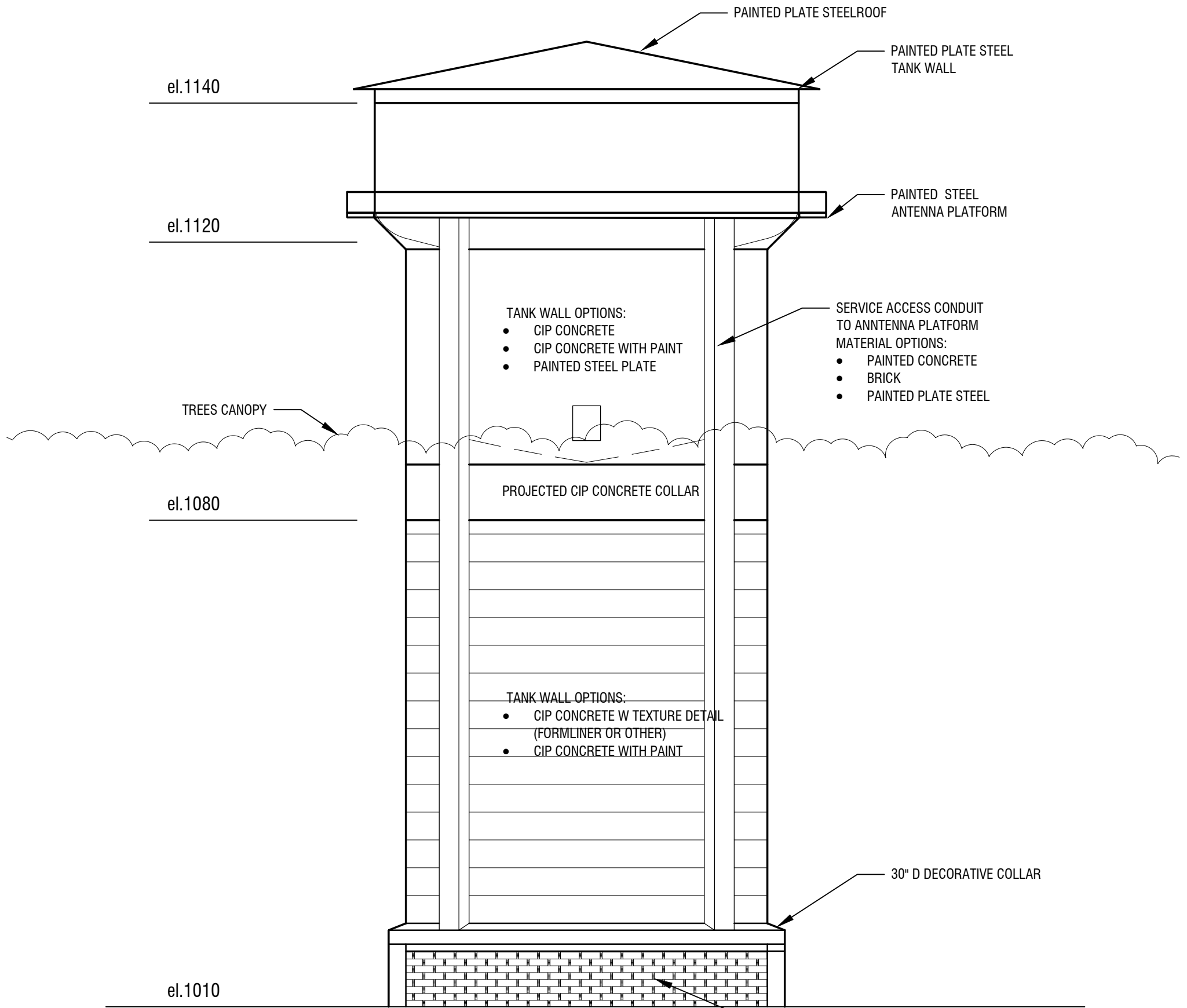
Concept Design Options
Lake View Reservoir Replacement Project
Madison Water Utility
December 11, 2013



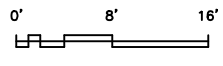


**TWO TANK
SECTION VIEW**

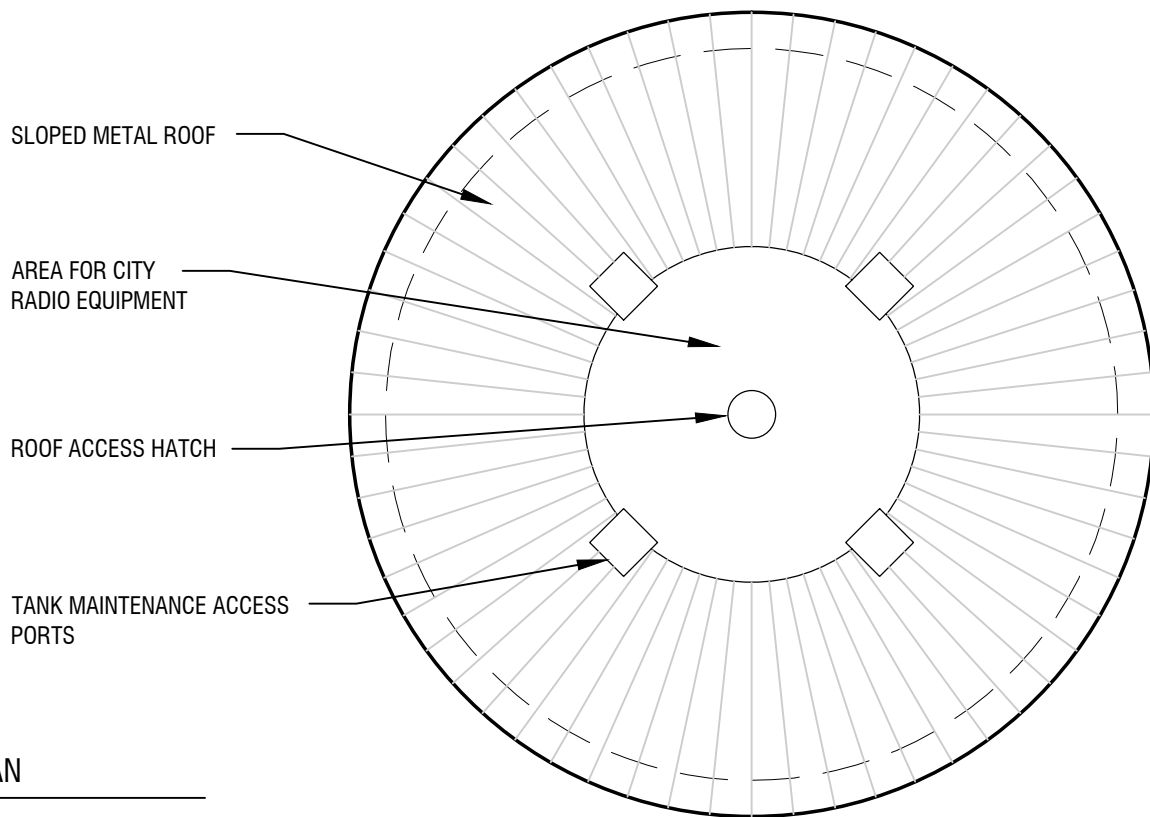




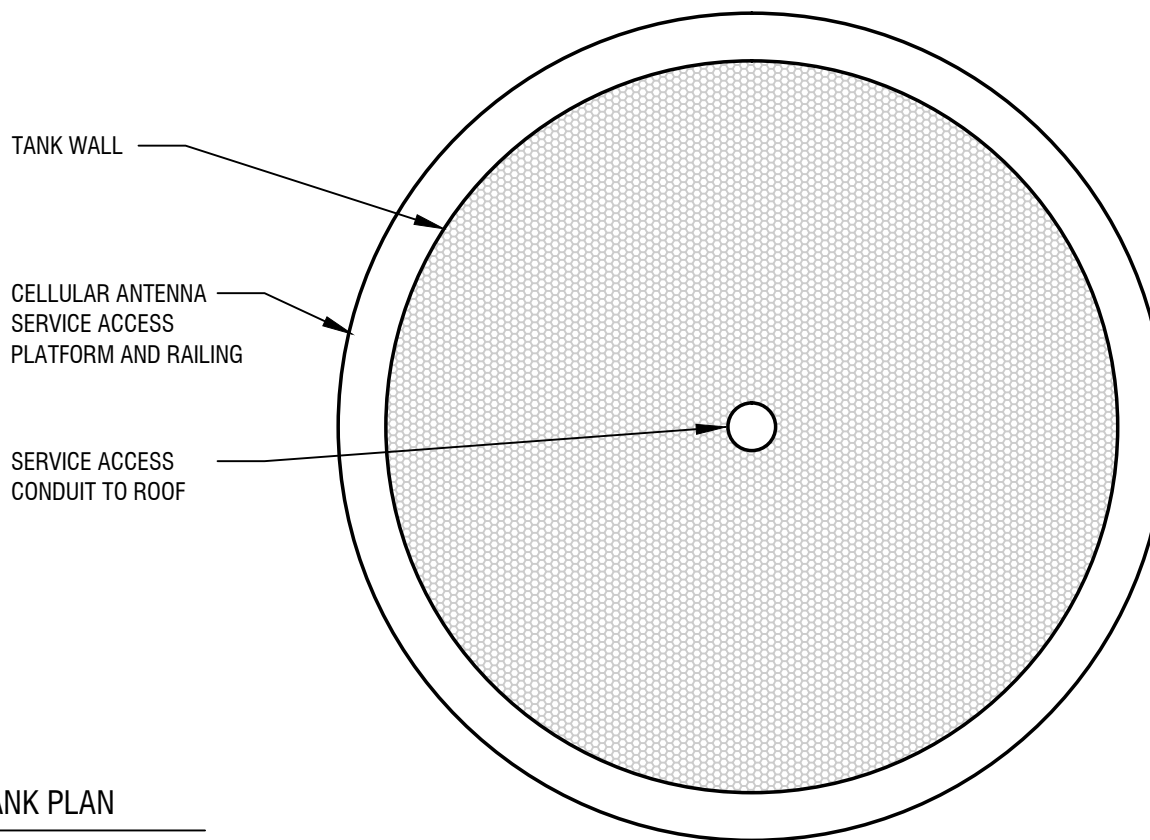
OPTION 1 ELEVATION VIEW



- INFORMATION FRIEZE OPTIONS:
- PAINTED CIP CONCRETE
 - PAINTED CIP CONCRETE W TEXTURE (FORMLINER)
 - BRICK MASONRY
 - PAINTED STEEL PLATE
 - RE-PURPOSED TANK STEEL

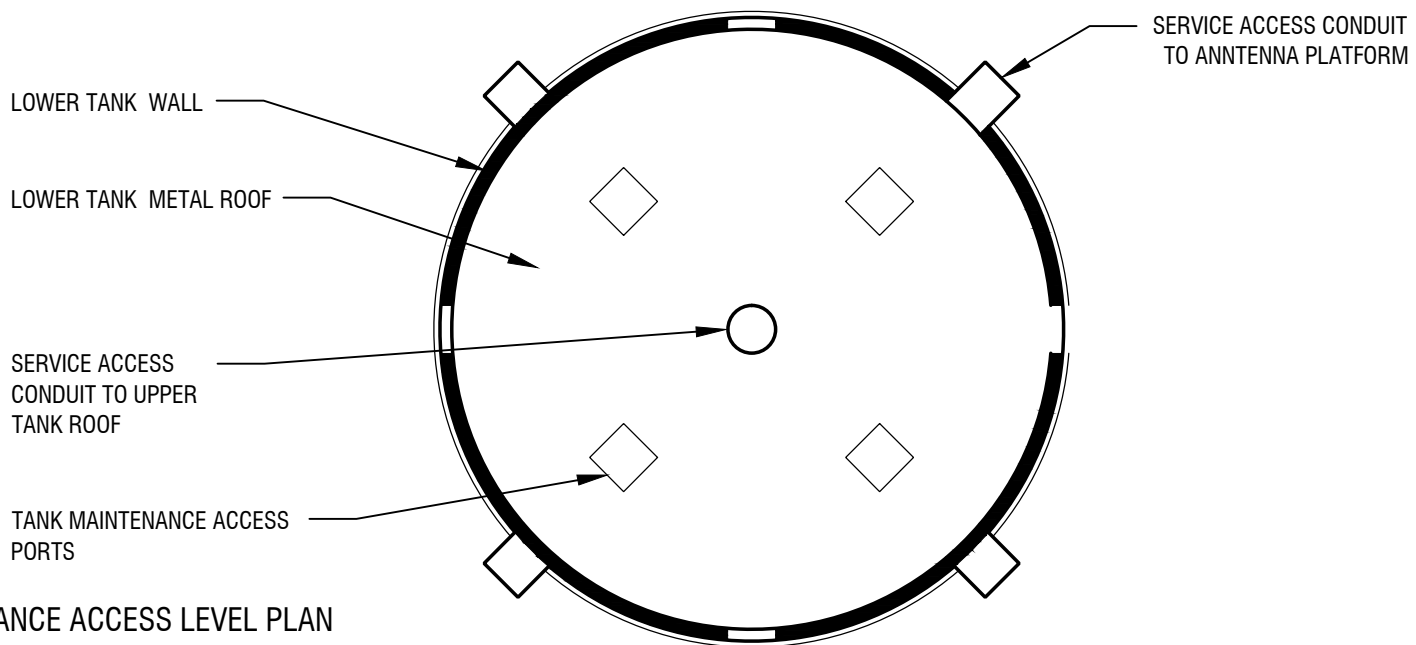


ROOF PLAN



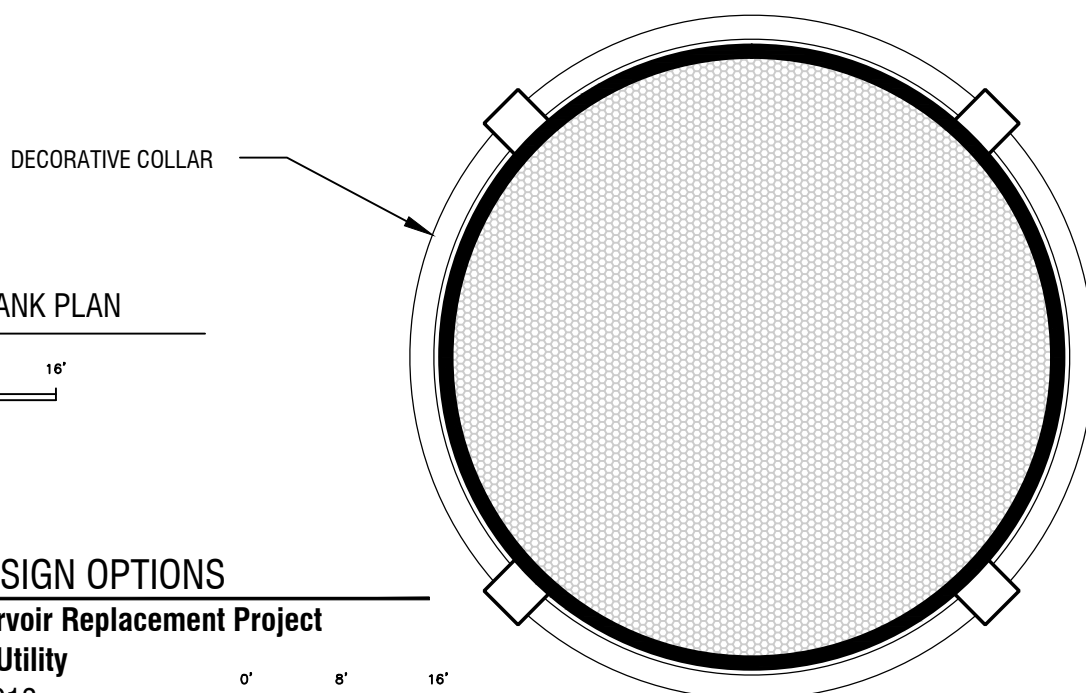
UPPER TANK PLAN

PRESSURE ZONE 5
300,000 GALLONS
WATER STORAGE

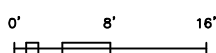
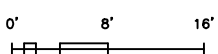


MAINTENANCE ACCESS LEVEL PLAN

PRESSURE ZONE 6E
1,000,000 GALLONS
WATER STORAGE



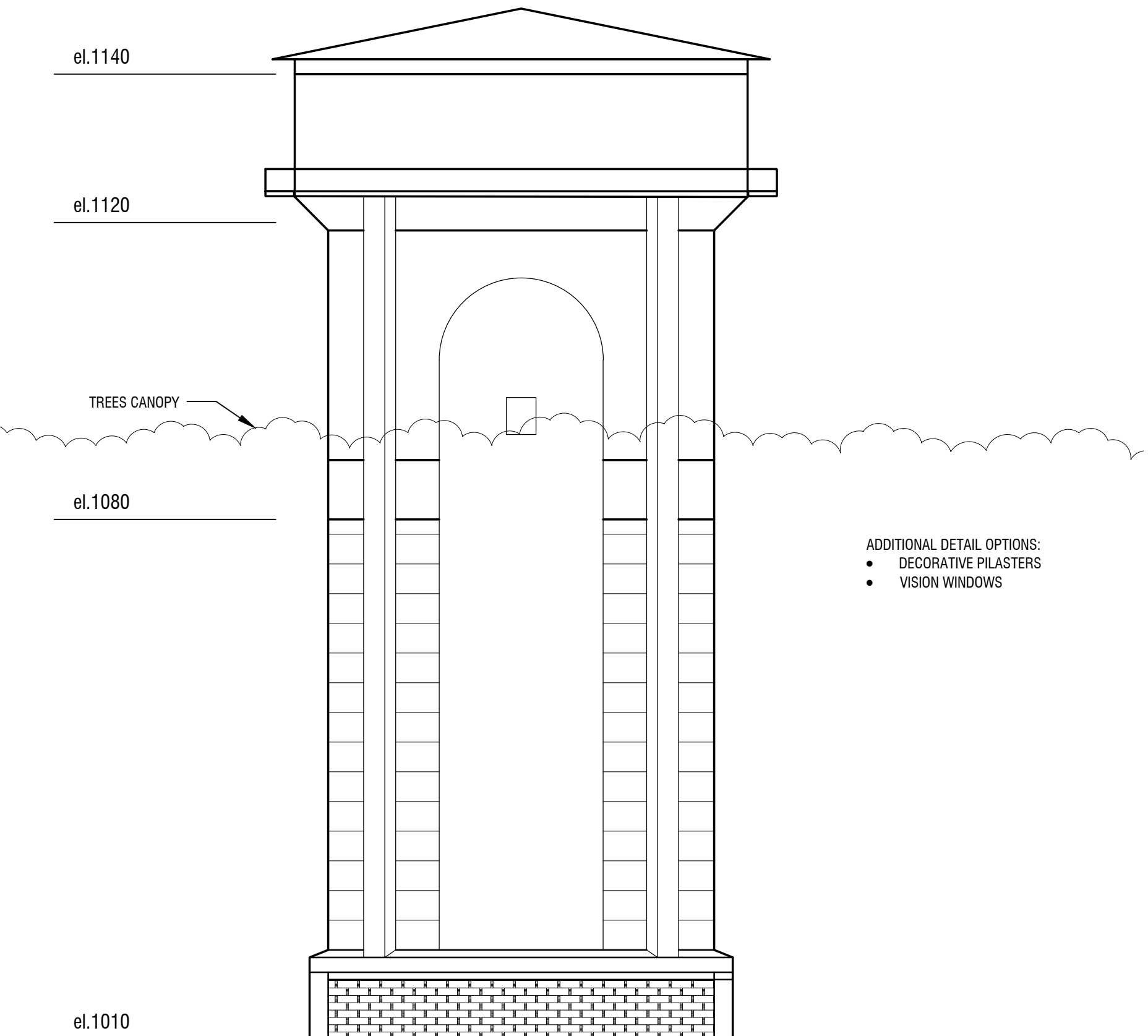
LOWER TANK PLAN



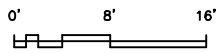
OPTION 2

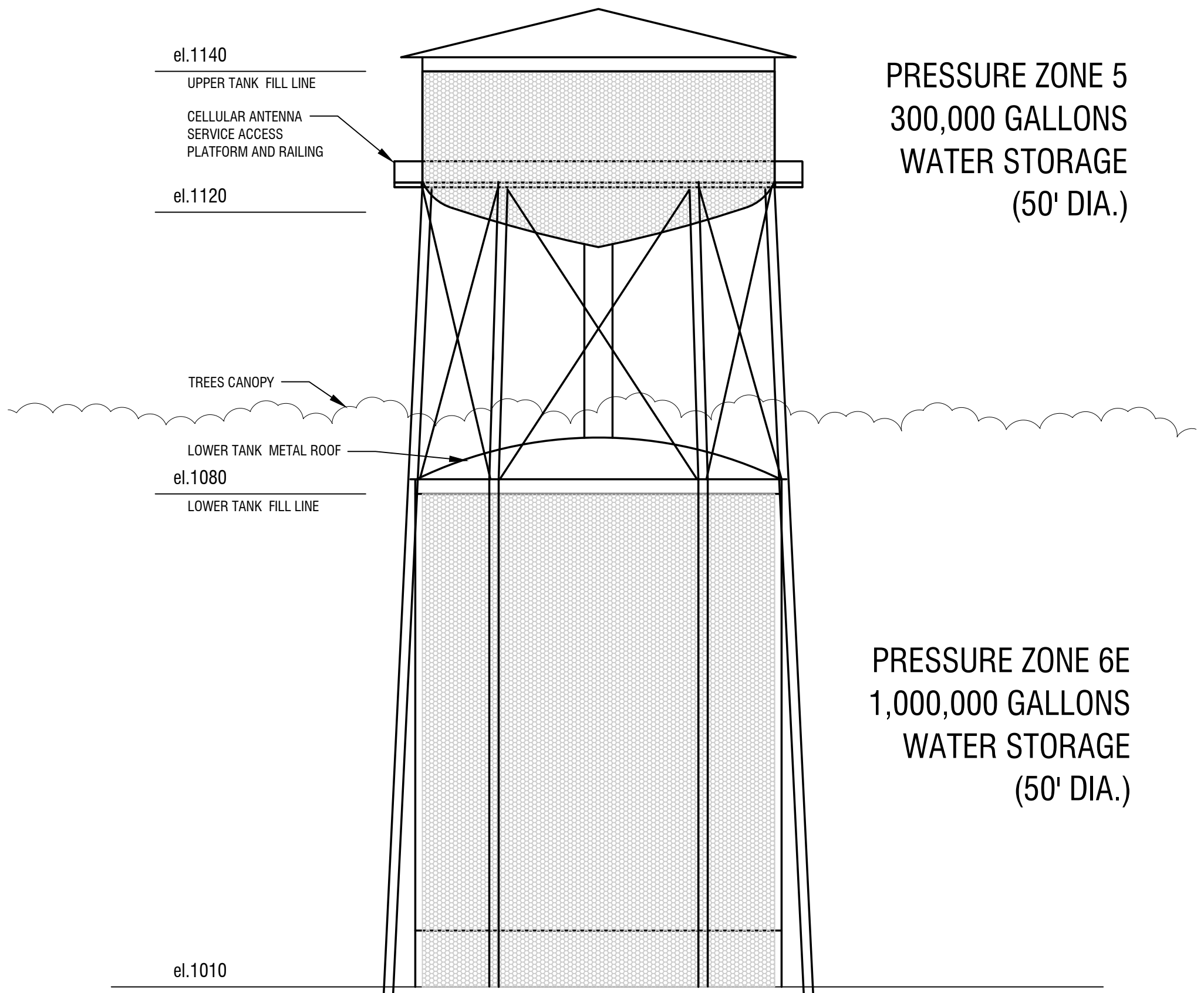
SAME AS OPTION 1, BUT ADD FOR:

- RECESSED ARCH

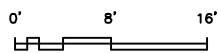


OPTION 2 ELEVATION VIEW





**TWO TANK
SECTION VIEW**



el.1140

UPPER TANK FILL LINE

CELLULAR ANTENNA
SERVICE ACCESS
PLATFORM AND RAILING

el.1120

TREES CANOPY

LOWER TANK METAL ROOF

el.1080

LOWER TANK FILL LINE

el.1010

el. 996

LOWER TANK FLOOR

PRESSURE ZONE 5
300,000 GALLONS
WATER STORAGE
(50' DIA.)

PRESSURE ZONE 6E
1,000,000 GALLONS
WATER STORAGE
(45' DIA.)

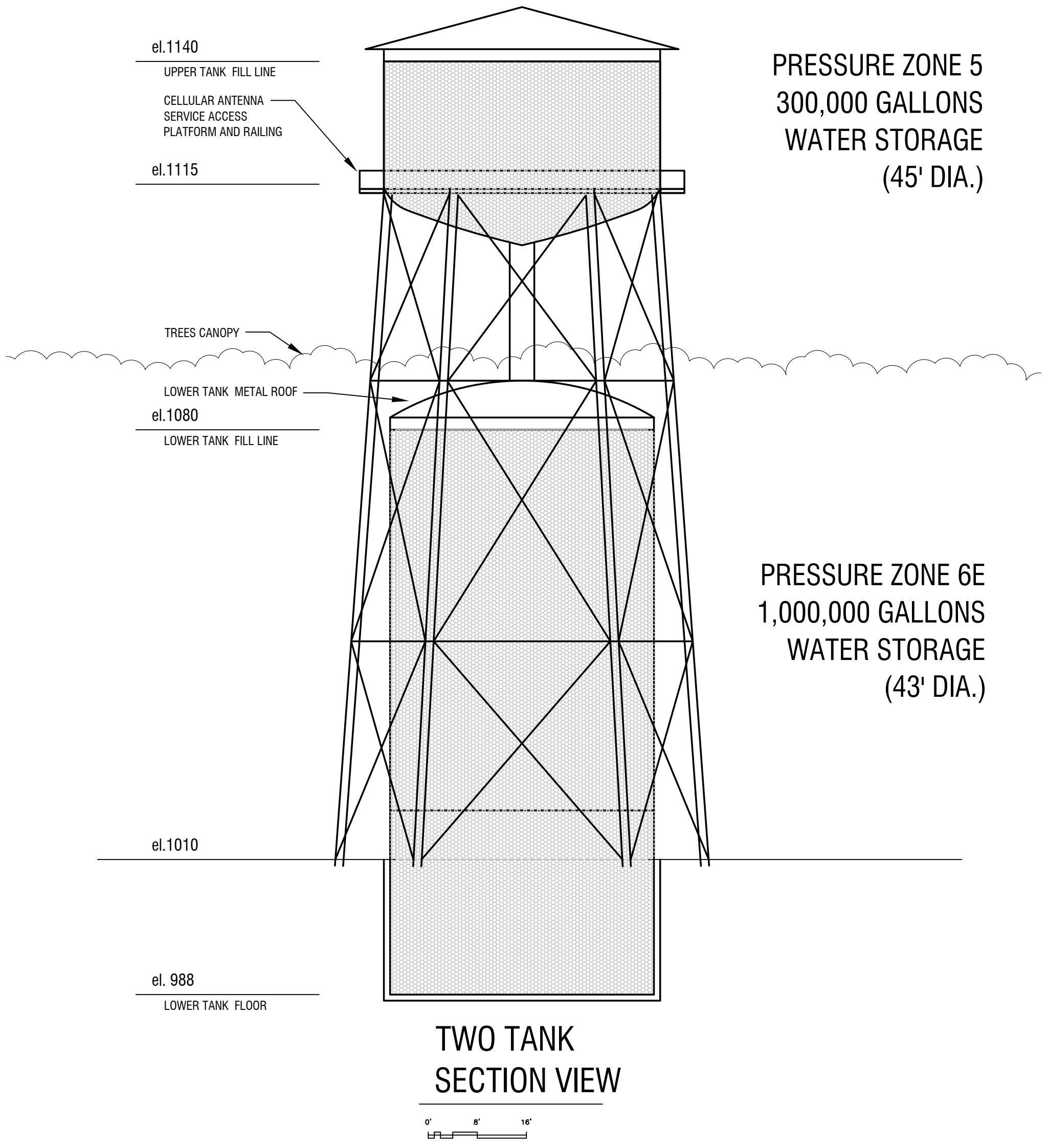
TWO TANK SECTION VIEW

0' 8' 16'

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December 11, 2013

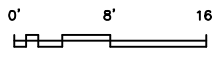




PRESSURE ZONE 5
 300,000 GALLONS
 WATER STORAGE
 (45' DIA.)

PRESSURE ZONE 6E
 1,000,000 GALLONS
 WATER STORAGE
 (43' DIA.)

TWO TANK
 SECTION VIEW



**Lakeview Reservoir Alternatives
50-Year Life Cycle Analysis**

	Present Worth*
Two Zone Reservoir	\$4,425,000
Zone 6E Reservoir + Booster Station Upgrades	\$4,620,000
Zone 5 Reservoir + Zone 6E Reservoir	\$4,000,000

***Includes approximate capital costs.**

Lakeview Reservoir Decision Matrix
 (Scale 1 – 3: 1 = Least Desirable, 3 = Most Desirable)

Alternative	Two Zone Reservoir	Zone 6E Reservoir + Booster Station Upgrade	Zone 5 Reservoir + Zone 6E Reservoir
Economic Considerations	2	2	3
Footprint	3	2	1
Reliability	3	2	3
Totals	8	6	7



Most Desirable Alternative

LAKE VIEW RESERVOIR PROJECT MADISON WATER UTILITY

