

HAR 2&3 RFI-158 Attachment C

Item Description: Construction parking lots, Laydown areas, Roads - surfacing

Surfacing in Plant, Construction Laydown, Construction parking & Switchyard area (Item # 14 of Attachment A-1, Civil Quantities)

- (a) Providing and laying 3.5" asphalt pavement in plant area and around cooling tower area over a 6" aggregate base course and 6" aggregate subbase course including supply, transporting, placing, compacting, rolling etc. as per design and drawing.
- (b) Providing and laying 12" crushed stone surfacing in plant area and around cooling tower area not covered under asphalt. Item includes placing 8 oz/sy geotextile 12" crushed stone surfacing course including supply, transporting, placing, compacting, rolling etc. as per design and drawing.
- (c) Providing and laying 9" crushed stone surfacing in laydown area and construction office area. Item includes placing 8 oz/sy geotextile 9" crushed stone surfacing course including supply, transporting, placing, compacting, rolling etc. as per design and drawing.
- (d) Providing and laying 12" crushed stone surfacing in switchyard area for unit-3. Item includes placing 8 oz/sy geotextile 12" crushed stone surfacing course including supply, transporting, placing, compacting, rolling etc. as per design and drawing.
- (e) Providing and laying 4" thick seeded top soil, including providing 4" thick top soil, seeding, mulching, etc. as per DOT approved guide lines.

Design Approach / Basis for Estimate:

Area measured from GA and topographic map using AutoCAD software for different facilities. Area of each surface type is combined to compute the total surfacing of individual type.

Design Inputs: Harris Site GA (DWG HAR-M-001)

Site topographic Survey Map (BARTON AIR TECHNOLOGIES)

Assumptions:

- Plant area and area around cooling tower will be asphalt surfaced
- West side area labeled as A3 in Figure-1 will be seeded
- Switchyard and other remaining area will be surfaced with crushed stone.

Attachments: see Attachment A-1 (Civil Quantities – Harris Site)

- 1. Sketches : Figure-10
- 2. Calculation(s) : Table 26.1
- 3. References : None

Project #

Civil Quantities for Two New AP-1000 units

Area Statement for Surfacing to Civil Quantities of the Estimate

Area Statement as Per GA				
#	Area Description	Surface Type	Area in Acres	Remarks
1	Power Blocks		5.60	(Both for Unit 2 & 3)
2	Cooling Towers		2.50	(Both)
3	Switch yard		5.50	
4	Const. Parking		24.00	Area table 11 in GA
5	Const. Offices & Warehouse		18.00	
6	Plant Roads & Roads		12.00	
7	Heavy Lift Crane path		7.50	
8	Construction Laydown		32.00	
9	Building Area		10.00	
10	West side to Const. Laydown		14.67	
11	Other Remaining area		60.00	
	Total of Graded area		191.77	
a - Asphalt surfacing in plant unit area and Cooling tower area and parking area.				
a	Power Blocks -Cooling tower Surrounded area	Asphalt	46.00	
1	Cooling tower		2.50	
2	Power Block		5.60	
3	Building & Other area		6.00	
4	Plant roads		10.00	
	Ashphalt Paved Area		21.90	a - (1+2+3+4)
		Say	22.00	
b- Crushed stone surfacing in plant unit area and Cooling tower area and parking area.				
1	Total area		74.00	
2	Area covered in Ashphalt in (a)		-22.00	
3	Plant roads		-12.00	
4	Buildings		-6.00	
	Net Area		34.00	

Project #

Civil Quantities for Two New AP-1000 units

Area Statement for Surfacing to Civil Quantities of the Estimate

Area Statement as Per GA			
C-Crushed stone surfacing in Laydown area & construction office area.			
1	West side area		32.00
3	Const. Offices		18.00
4	Switchyard & Parking		29.5
5	Switchyard area		-5.5
	Total		74.00
		Say	74.00
Area not covered under surfacing for this estimate			
1	Plant Road		12.00
2	Buildings		10.00
3	Power Block		5.60
4	Heavy Lift Crane path		7.5
5	Cooling Towers		2.5
	Total		37.60
		Say	38.00

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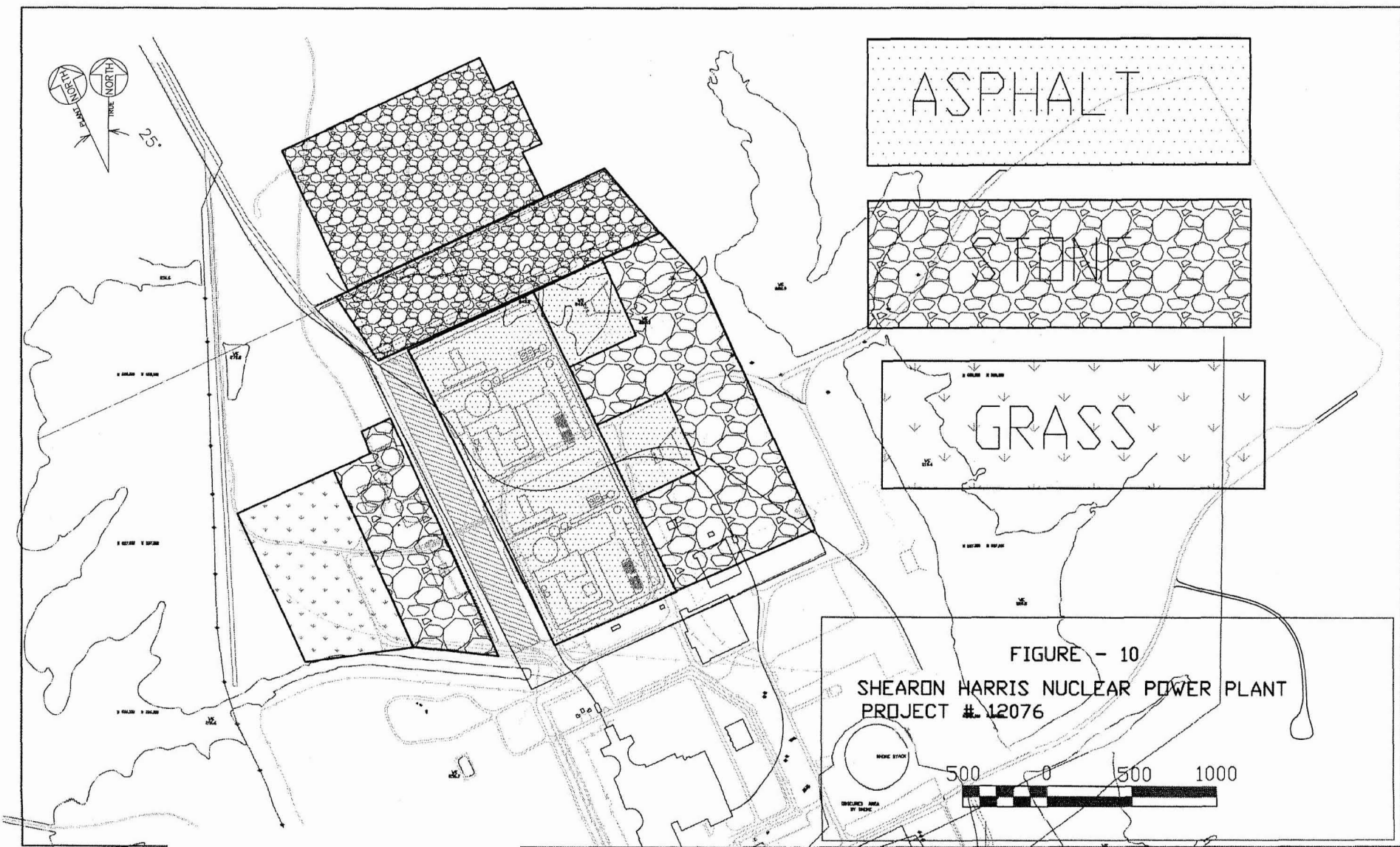


FIGURE - 10
 SHEARON HARRIS NUCLEAR POWER PLANT
 PROJECT # 12076