

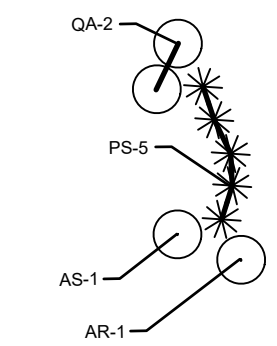
THOMAS J. WATSON
RESEARCH CENTER
YORKTOWN, N.Y.

FACILITIES DESIGN
COMPUTER GRAPHICS

FACILITIES ENGINEERING
REARRANGEMENT ENGINEERING
FACILITIES PLANNING

THIS DOCUMENT IS THE PROPERTY OF
I.B.M. ITS USE IS AUTHORIZED ONLY
FOR RESPONDING TO A REQUEST FOR
QUOTATION OR FOR THE PERFORMANCE
OF WORK FOR I.B.M. ALL QUOTATIONS
MUST BE REFERRED TO THE I.B.M.
PURCHASING DEPARTMENT.

Storm MH
Top: 512.18
Inv.(8') 508.95
Inv.(12') 508.95
Inv.(15') 508.53



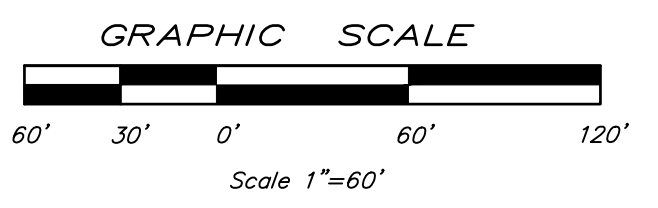
LEGEND

- PROPOSED REPLACEMENT TREE (120 TOTAL)*
- EXISTING TREE TO BE DEMOLISHED
- * TREE SPECIES WILL BE PROVIDED BASED ON GUIDANCE FROM THE YORKTOWN TREE COMMITTEE.

Demo Tree BHD (inches)	Replacement Tree Quantities **
8	3
10	3
12	4
15	5
15	5
15	5
18	6
20	7
8	3
10	3
10	3
10	3
10	3
8	3
8	3
11	4
11	4
12	4
11	4
11	4
11	4
12	4
12	4
12	4
12	4
11	4
11	4
12	4
12	4
11	4
11	4
11	4
12	4
12	4
11	4
12	4
11	4

MITIGATION RATIO
CALCULATION:

MITIGATION RATIO: THE RATE AT WHICH
REPLACEMENT OF LOST TREES MAY BE
REQUIRED AS PART OF A MITIGATION PLAN. THE
REPLACEMENT RATE EXPRESSED IN BASE TERMS
OF DIAMETER AT BREAST HEIGHT (DBH) SHALL
BE CALCULATED BY DIVIDING THE DBH OF EACH
LOST TREE BY THE AVERAGE DBH OF
REPLACEMENT TREES. THE RESULT SHALL BE
THE NUMBER OF REPLACEMENT TREES REQUIRED
TO BE PLANTED AS COMPENSATION FOR EACH
LOST TREE.



110220.0001

Hill & Bell Associates Engineers, L.L.C.
Engineers / Consultants
1967 N. Park Road
P.O. Box 6307
Reading, PA 19610-0307

LANCASTER
701 Creekside Lane
Lancaster, PA 17603
717.566.2876

LEHIGH VALLEY
Roma Corporate Center, Suite 106
1605 N. Cedar Crest Blvd
Allentown, PA 18104
610.849.9700
WEST CHESTER
101 East Evans Street
West Chester, PA 19380
610.621.0000



SPOTTS, STEVENS & MCCOY
Engineers and Consultants
ssmgroup.com

TOTAL REPLACEMENT TREES REQUIRE: 120

**Based on 3" average dbh for replacement trees

PLANT SCHEDULE				
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
DECIDUOUS TREES				
AR	11	ACER RUBRUM	RED MAPLE	3" CAL
AS	21	ACER SACCHARUM	SUGAR MAPLE	3" CAL
QA	12	QUERCUS ALBA	WHITE OAK	4" CAL
QC	17	QUERCUS COCCINEA	SCARLET OAK	4" CAL
FLOWERING TREES				
CC	10	CERCIS CANADENSIS	REDBUD	2.5" CAL
CF	5	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5" CAL
EVERGREENS				
JV	17	LIUNIPERUS VIRGINIA	EASTER REDCEDAR	6'-8" HT
PG	22	PICEA GLAUCOA	WHITE SPRUCE	6'-8" HT
PS	23	PINUS VIRGINIANA	VIRGINIA PINE	6'-8" HT

NOTE:
ALL NEW LANDSCAPE ISLANDS TO BE BACKFILLED
WITH CLEAN SUITABLE SOIL FILL AND MINIMUM 4"
TOPSOIL. PLANT UNMULCHED AREAS IN LAWN.

NO.	DATE	DESCRIPTION	BY
F	01/20/21	LANDSCAPE REVISION 3	KMF
E	01/10/21	LANDSCAPE REVISION 2	KMF
D	12/17/20	LANDSCAPE REVISION 1	KMF
C	10/27/20	ISSUED FOR PERMITTING	AMW
B	10/13/20	90% CLIENT REVIEW	AMW
A	08/12/20	REVISE PER CLIENT REQUEST	AMW

SHEET TITLE:
WATSON RESEARCH CENTER
SOLAR CARPORTS

CIVIL
LANDSCAPE PLAN

DRAWN BY: MBD SCALE: AS NOTED

CHECKED BY: NAS DATE: 07/09/20

PROJECT NO. YK20KS05 DRAWING NO.

SHEET OF C.5-01