ALTERNATE #5

BIORETENTION BASIN # 1					
KEY	QUANTITY	PLANT NAME	COMMON NAME	SIZE	SPACING
SHRUBS					
CA	9	Clethra alnifolia	summersweet	#1 cont./ 2 stems (min.)	5 ft.
CS	3	Cornus sericea	redosier dogwood	#1 cont./ 2 stems (min.)	5 ft.
IG	13	Ilex glabra	inkberry holly	#1 cont./ 2 stems (min.)	5 ft.
IV	8	Ilex verticillata	winterberry	#1 cont./ 2 stems (min.)	5 ft.
MP	3	Myrica pensylvanica	bayberry	#1 cont. / 2 stems (min.)	6 ft.
HERBACEOUS					
AN	10	Aster novae-angliae	New England aster	2" Plug	3 Ft.
CCN	45	Calamagrostis canadensis	Canada bluejoint grass	2" Plug	2 Ft.
EM	34	Eupatorium maculatum	spotted joe-pye	2" Plug	2 Ft.
JE	12	Juncus effusus	soft rush	2" Plug	2 Ft.
LC	24	Lobelia cardinalis	cardinal flower	2" Plug	2 Ft.
PV	99	Panicum virgatum "Shawnee"	switch grass	2" Plug	2 Ft.
RH	107	Rudbeckia hirta	black-eyed susan	2" Plug	2 Ft.
CONSERVATION SEED MIX					
ERNMX-127	3,817 S.F.	ERNST RETENTION BASIN FLOOR SEEDING FOR WILDLIFE & PLANT DIVERSITY MIX		@ 1/2 LB PER 1,000 SQ. FT.	
ERNMX-156	4,107 S.F.	LOW -GROWING WILDFLOWER & GRASS MIX FOR UPLAND AND MEADOW SITES		@ 1/2 LB PER 1,000 SQ. FT.	

ALTERNATE #4

BIORETENTION BASIN # 2					
KEY	QUANTITY	PLANT NAME	COMMON NAME	SIZE	SPACING
SHRUBS					
CA	7	Clethra alnifolia	summersweet	#1 cont./ 2 stems (min.)	5 ft.
CS	1	Cornus sericea	redosier dogwood	#1 cont./ 2 stems (min.)	5 ft.
IG	6	Ilex glabra	inkberry holly	#1 cont./ 2 stems (min.)	5 ft.
IV	3	Ilex verticillata	winterberry	#1 cont./ 2 stems (min.)	5 ft.
MP	5	Myrica pensylvanica	bayberry	#1 cont. / 2 stems (min.)	6 ft.
VD	8	Viburnum dentatum	arrowwood viburnum	#1 cont./ 2 stems (min.)	6 ft.
HERBACEOUS					
AN	33	Aster novae-angliae	New England aster	2" Plug	3 Ft.
EM	47	Eupatorium maculatum	spotted joe-pye	2" Plug	2 Ft.
LC	60	Lobelia cardinalis	cardinal flower	2" Plug	2 Ft.
PV	274	Panicum virgatum "Shawnee"	switch grass	2" Plug	2 Ft.
RH	59	Rudbeckia hirta	black-eyed susan	2" Plug	2 Ft.
EP	7	Echinacea purpurea	purple coneflower	2" Plug	3 Ft.
CONSERVATION SEED MIX					
ERNMX-127	5,208 S.F.	ERNST RETENTION BASIN FLOOR SEEDING FOR WILDLIFE & PLANT DIVERSITY MIX		@ 1/2 LB PER 1,000 SQ. FT.	
ERNMX-156	5,026 S.F.	LOW -GROWING WILDFLOWER & GRASS MIX FOR UPLAND AND MEADOW SITES		@ 1/2 LB PER 1,000 SQ. FT.	

STORMWATER BASIN					
KEY	QUANTITY	PLANT NAME	COMMON NAME	SIZE	SPACING
CONSERVATION SEED MIX					
ERNMX-127	7,611 S.F.	ERNST RETENTION BASIN FLOOR SEEDING FOR WILDLIFE & PLANT DIVERSITY MIX		@ 1/2 LB PER 1,000 SQ. FT.	
ERNMX-156	15,174 S.F.	LOW -GROWING WILDFLOWER & GRASS MIX FOR UPLAND AND MEADOW SITES		@ 1/2 LB PER 1,000 SQ. FT.	

ALTERNATE #4 & #5

Seeding Notes For Bioretention Basins & Stormwater Basin:

1. IN AREAS TO BE SEEDED, THE SEED BED SHALL BE PREPARED BY DISCING TO A DEPTH OF 4 INCHES.
2. SEED SHALL BE EVENLY SPREAD EITHER BY HAND OR MECHANICAL MEANS AT THE SPECIFIED RATE.
3. PERMANENT SEEDING SHALL OCCUR IN THE SPRING OR FALL. THE SPRING SEEDING WINDOW IS FROM MARCH 15 TO JUNE 1 AND THE FALL SEEDING WINDOW IS FROM AUGUST 15 TO OCTOBER 1.
4. IF CONSTRUCTION IS COMPLETED BETWEEN JUNE 2 AND JULY 15 OR BETWEEN OCTOBER 1 AND FEBRUARY 15, TEMPORARY SEEDING SHALL BE REQUIRED. THE TEMPORARY SEEDING SHALL THEN BE FOLLOWED BY A PERMANENT SEEDING IN THE SUBSEQUENT SPRING/FALL SEEDING WINDOW. TEMPORARY SEEDING SHALL BE AS DIRECTED BY THE ENGINEER.
5. A NON-GROWING SEASON STABILIZATION COVER SHALL BE APPLIED IF CONSTRUCTION IS COMPLETED BETWEEN JULY 16 AND AUGUST 14 OR FEBRUARY 16 AND MARCH 14. THE COVER SHALL CONSIST OF STRAW MULCH APPLIED AT THE RATE OF 6,000 LBS./ACRE. THE MULCH SHALL BE BOUND IN PLACE WITH AN APPROVED BINDER.
6. FOR PERMANENT OR TEMPORARY SEEDING, SEE SOIL EROSION AND SEDIMENT CONTROL PLAN. THE SEED MIX SHALL BE MULCHED AT THE RATE OF 6 LBS. PER 1,000 SF OF STRAW MULCH. THE MULCH SHALL BE BOUND IN PLACE WITH AN APPROVED BINDER.
7. APPROVAL OF FINAL GRADING BY THE ENGINEER IS REQUIRED PRIOR TO PERMANENT OR TEMPORARY SEEDING.

ALTERNATE #4

VA BEHAVIORAL HEALTH COMPLEX
Lebanon, NJ

Dewberry-Goodkind, Inc.
2/25/2012
3/1/2012

PLANT LIST

KEY	QUAN	ROTANICAL NAME	COMMON NAME	SPACING (FT.)	SIZE	ROOT BALL	REMARKS
BROADLEAF DECIDUOUS TREES							
CO	5	CELTIS OCCIDENTALIS	HACKBERRY	40	2-2^1/2 "	B&B	
OA	1	OXYDENDRUM ARBOREUM	SOURWOOD	20	#15 CONT.	B&B	
PS	3	PRUNUS SARGENTII	SARGENT CHERRY	30	8-10 FT.	B&B	
PO	3	PRUNUS OKAMI	OKAMI CHERRY	25	8-10 FT.	B&B	FALL DIGGING HAZARD
TCG	3	TILIA CORDATA GREENSPIRE	GREENSPIRE LITTLELEAF LINDEN	38	2^1/2-3"	B&B	FALL DIGGING HAZARD
UAV	2	ULMUS AMERICANA "VALLEY FORGE"	PRINCETON AMERICAN ELM	50	2^1/2-3"	B&B	RESISTANT TO DUTCH ELM DISEASE
SHRUBS							
DBC	4	DAPHNE XBURKWOODII "CAROL MACKIE"	CAROL MAKIE DAPHNE	6	24"-30"	CONT.	
ICC	30	ILEX CRENATA "COMPACTA"	COMPACT JAPANESE HOLLY	5	24"-30"	CONT.	
IGC	59	ILEX GLABRA "COMPACTA"	COMPACTED INKBERRY	5	24"-30"	CONT.	
JP	49	JUNIPERUS PROCUMBENS	GARDEN JUNIPER	5	12"-18"	CONT.	
MP	15	MYRICA PENSYLVANICA	BAYBERRY	7	24"-30"	CONT.	
RP	37	RHODODENDRON "PJM" "COMPACTUM"	PJM RHODODENDRON	4	24"-30"	CONT.	
PERENNIALS							
HN	76	HELLEBORUS NIGRA	LENTEN ROSE	2	#1	CONT.	
HSD	242	HEMEROCALLIS "STELLA D'ORO"	STELLA D'ORO DAYLILLY	2	#1	CONT.	
LM	90	LIRIOPE MUSCARI "BIG BLUE"	BIG BLUE LILYTURF	1.5	#1	CONT.	
LMV	70	LIRIOPE MUSCARI "VARIEGATA"	VARIEGATED LILYTURF	1.5	#1	CONT.	
SNA	112	SYMPHYOTRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER	2.5	#1	CONT.	

NOTES:
a. FOR PLANTING DETAILS, SEE DETAIL SHEET GS-701.
b. SEE NOTE 1 ON SHEET GS-100 FOR LANDSCAPING FOR ALTERNATE #1 WORK.
c. ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED AS PART OF THE BASE CONTRACT

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

Revisions	Date

CONSULTANTS:

Civil Engineer: Dewberry — 600 Parsippany Road, Suite 301, Parsippany, NJ 07054-3715, Tel (973) 739-9400, Fax (973) 739-9710

Structural Engineer: WZG — 180 W. Ridge Pike, Limerick, PA 19468, Tel (214) 529-5559

MEP Engineer: H. Heilenz Company — 1407 Scalp Avenue, Johnstown, PA 15904, Tel (814) 269-6300, Fax (814) 269-9301

Environmental Consultant: SSM — 1047 North Park Road, P.O. Box 6307, Reading, PA 19610, Tel (610) 621-2000

Cost Estimator: International Consultants, Inc. — 221 Chestnut Street, Suite 200, Philadelphia, PA 19106, Tel (215) 923-8888

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER M. CIRROTTI PE-044033-E

ARCHITECT:

ARRAY
healthcare facilities solutions

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Project Number	Scale
3468	1"=30'

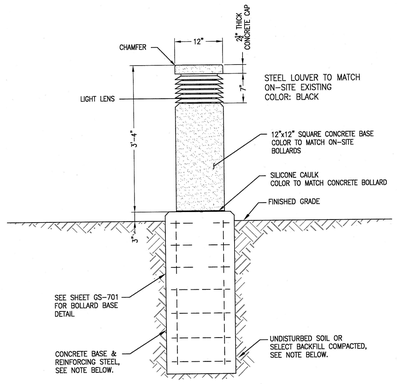
Approved: Project Director

Drawing Title	Project Title	VA Project Number
LANDSCAPE PLAN	Behavioral Health Complex	595-109
	Location: 1700 South Lincoln Ave. Lebanon, PA 17042	Building Number: 34
	Date: 07/27/2012 · Checked: MI · Drawn: SP	Drawing Number: GS-500
		Dwg. 14 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

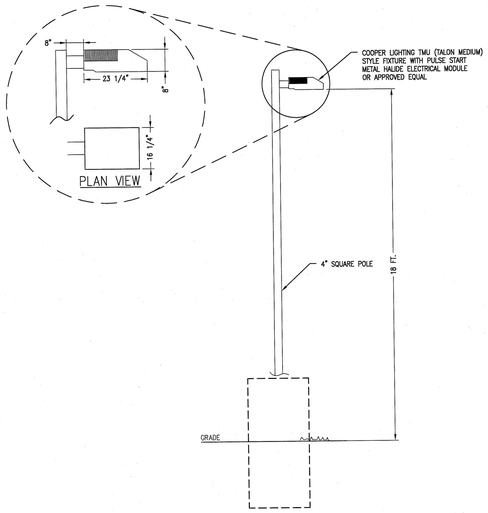


NOTE:
BOLLARD LIGHT FIXTURE TO MATCH EXISTING ON SITE VA CAMPUS LIGHT BOLLARDS

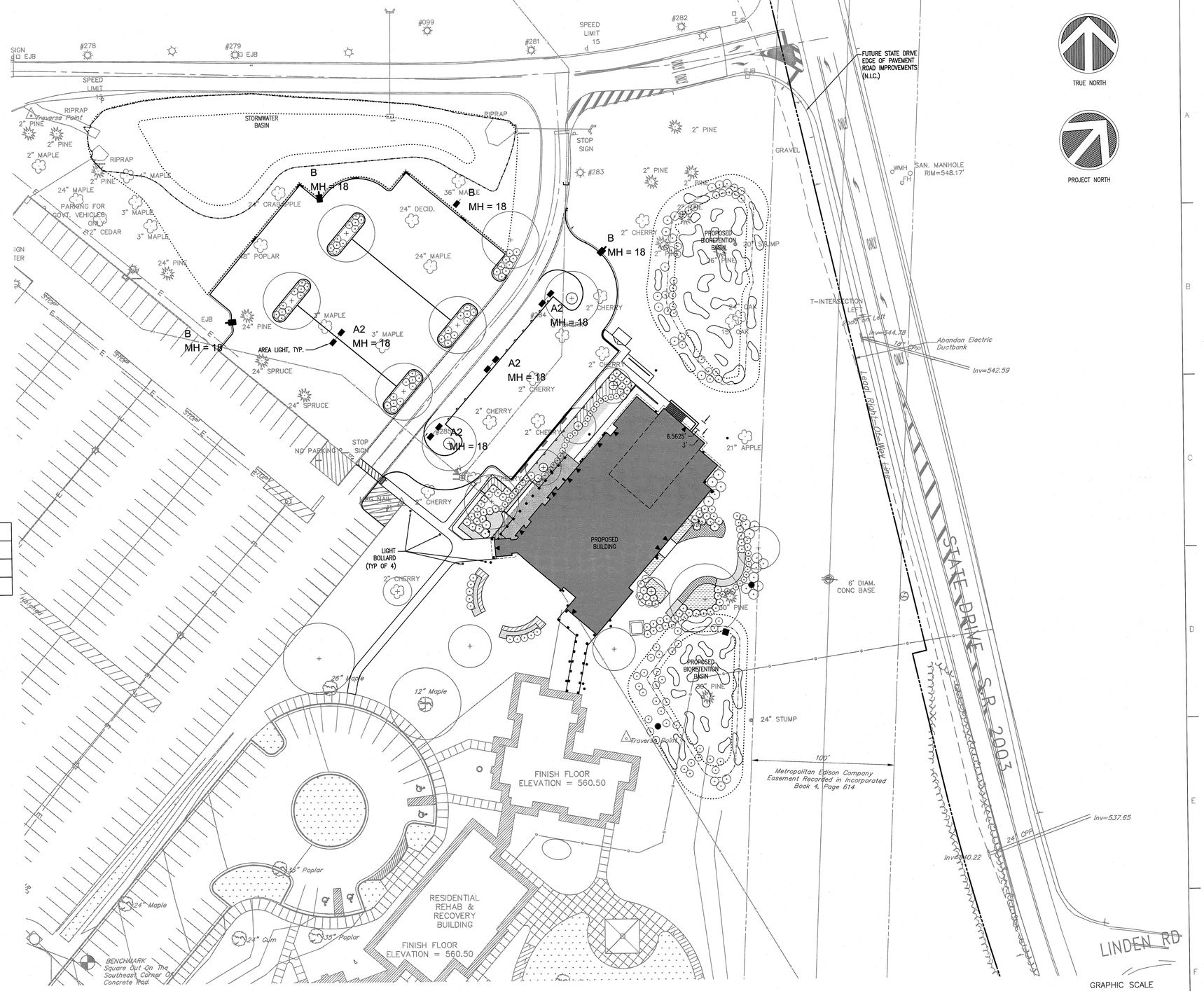
BOLLARD LIGHT DETAIL

N.T.S.

Luminaire Schedule						
Symbol	Label	Qty	Description	Lumens/Lamp	Arrangement	LLF
	B	4	TMU25PWWSLF 250W PULSESTART	22000	SINGLE	0.800
	A-2	4	TWU25PWW5SF 250W PULSESTART 2 @180	22000	BACK-BACK	0.800



NOTES:
1. COLOR OF FIXTURE, POLE, AND ASSOCIATED LIGHTING HARDWARE TO BE SELECTED BY OWNER FROM THE FULL SELECTION OF THE MANUFACTURER.
2. SEE DETAILS ON SHEET GS-702 FOR POLE BASE DETAILS
3. FIXTURES TO BE 277 VOLT



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Project Number	Scale
3468	1"=30'

Drawing Title: LIGHTING PLAN

Approved: Project Director

Project Title: Behavioral Health Complex

Location: 1700 South Lincoln Ave. Lebanon, PA 17042

Date	Checked	Drawn
07/27/2012	MI	SP

VA Project Number: 595-109

Building Number: 34

Drawing Number: GS-600

Dwg. 15 of 123

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978