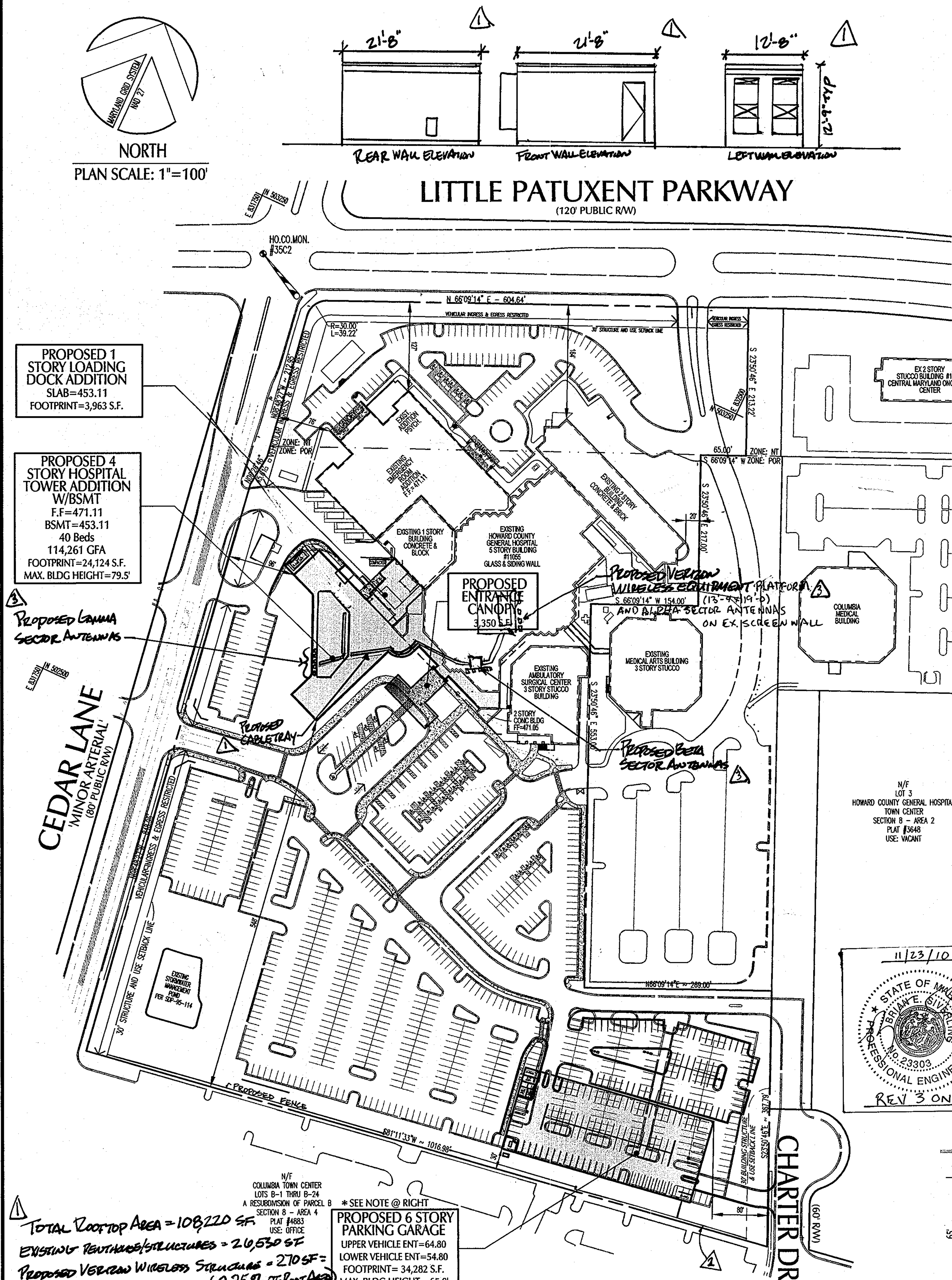
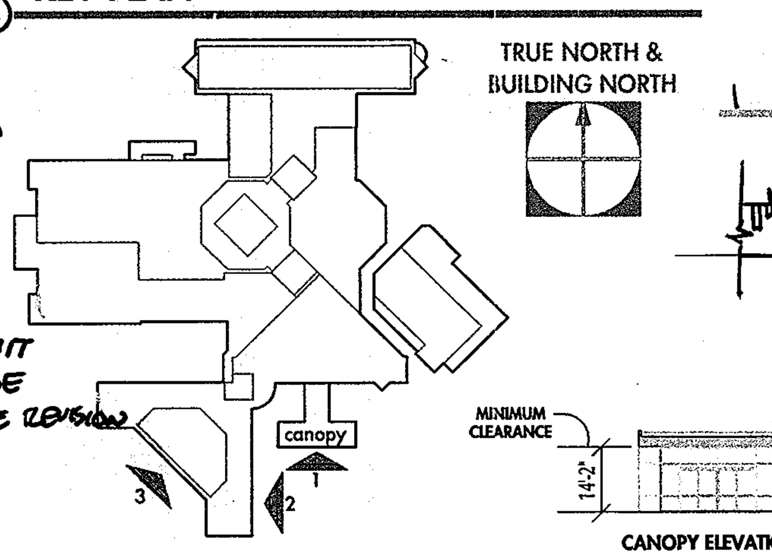


TOTAL ROOFTOP AREA = 108,220 SF
EXISTING PENTHOUSE/STRUCTURES = 26,530 SF
PROPOSED VERIZON WIRELESS STRUCTURE = 270 SF = (0.25% OF ROOF AREA)
TOTAL PENTHOUSE/STRUCTURE AREA = 26,800 SF (24.76% OF ROOF AREA)

NOTE:
1. PROPOSED VERIZON WIRELESS EQUIPMENT SHALL NOT EXTEND ABOVE EXISTING PENTHOUSE.
2. THE APPLICANT SHALL MAKE APPLICATION TO THE DEPARTMENT OF INSPECTIONS LICENSES & PERMITS FOR A BUILDING PERMIT FOR THE EQUIPMENT SHELTER WITHIN ONE YEAR FROM THE DATE OF THIS RED-LINE REVISION APPROVAL.

KEY PLAN



GENERAL SITE DATA:

1. GENERAL SITE DATA:

A. EXISTING ZONING NT / POR

B. APPLICABLE DPZ FILE REFERENCES:
SDP-86-207, FDP-83, SDP-85-17, F-76-101, SDP-86-296, F-91-65, S-90-32, PB 266, SDP-94-04, AA-90-09, AA-95-23, WP-90-106, BA-9036, SDP-90-190, SDP-95-114, WP-05-99, F-07-56, and SDP-00-072, WP 97-72, WP 98-33, WP 98-35, F 70-52, SDP 83-17, SDP 86-209, P-76-08, F-07-155

C. PROPOSED USE OF SITE OR STRUCTURE(S): HOSPITAL & PARKING GARAGE

D. PROPOSED WATER SYSTEMS: PUBLIC

2. AREA TABULATION:

A. TOTAL PROJECT AREA: 19.536 ACRES OR 850,988 S.F. (AS INDICATED BY SECTION AND AREA, AND AS SHOWN ON THE FINAL PLAT, OR AS SHOWN ON THE DEED).

B. NET AREA OF SITE: 19.536 ACRES OR 850,988 S.F. (AS INDICATED BY SECTION AND AREA, AND AS SHOWN ON THE FINAL PLAT, OR AS SHOWN ON THE DEED)

C. AREA OF THIS PLAN OF SUBDIVISION: 19.536 ACRES OR 850,988 S.F.

D. LIMIT OF DISTURBANCE:

PROPOSED 'TOWER' + CANOPY=	71,725 SF OR 1.65 AC.
PROPOSED GARAGE=	110,193 SF OR 2.53 AC.
TOTAL DISTURBED AREA =	181,918 SF OR 4.18 AC.

E. BUILDING COVERAGE OF SITE:

LOT AREA=	850,988 SF OR 19.536 AC.
EXISTING BUILDING COVERAGE=	106.286 SF OR 2.44 AC. (PER SDP-00-072)
PROPOSED HOSPITAL 'TOWER' & LOADING ADDITION=	28,087 SF OR 0.66 AC.
PROPOSED CANOPY=	3,350 SF OR 0.07 AC.
PROPOSED PARKING GARAGE=	34,282 SF OR 0.79 AC.
TOTAL BUILDING COVERAGE=	172,005 SF OR 3.95 AC.= 20.21 %

3. PARKING SPACE DATA

A. NUMBER OF PARKING SPACES REQUIRED BY ZONING REGULATIONS AND/OR FDP CRITERIA: 1060 SPACES

B.	NUMBER OF REGULAR PARKING SPACES PROVIDED ON-SITE:	696 SPACES
C.	NUMBER OF HANDICAP PARKING SPACES PROVIDED:	47 SPACES
D.	NUMBER OF HANDICAP VAN PARKING SPACES PROVIDED:	17 SPACES
E.	NUMBER OF AMBULANCE & POLICE PARKING SPACES PROVIDED: (NOT INCLUDE IN TOTAL)	9 SPACES
F.	NUMBER OF REGULAR SPACES WITH 6 STORY GARAGE: *	620 SPACES
G.	NUMBER OF HANDICAP SPACES WITH 6 STORY GARAGE: *	18 SPACES
H.	NUMBER OF TOTAL SPACES PROVIDED ON SITE WITH 6 STORY GARAGE: *	1,407 SPACES

BREAK DOWN OF REQUIRED PARKING SPACES:

NOTE: PARKING CALCULATIONS ARE BASED ON SECTION 133 OF THE ZONING REGULATIONS

EXISTING HOSPITAL		
1. PATIENT BEDS:	223 (1 SPACE/2 BEDS)	112 SPACES
2. EMPLOYEES PER MAJOR SHIFT:	300 (1 SPACE/EMPLOYEE)	300 SPACES
3. DR.'S TREATING OUTPATIENTS ON MAJOR SHIFT:	4 (4 SPACES/DOCTOR)	16 SPACES
EXISTING AMBULATORY SURGERY CENTER		
1. EMPLOYEES PER MAJOR SHIFT:	80 (1 SPACE/EMPLOYEE)	80 SPACES
2. DR.'S TREATING OUTPATIENTS:	13 (4 SPACES/DOCTOR)	52 SPACES
EXISTING EMERGENCY DEPARTMENT ADDITION		
1. EMPLOYEES PER MAJOR SHIFT:	40 (1 SPACE/EMPLOYEE)	40 SPACES
2. DR.'S TREATING OUTPATIENTS:	20 (4 SPACES/DOCTOR)	80 SPACES
EXISTING VERTICAL EXPANSION		
1. EMPLOYEES PER MAJOR SHIFT:	50 (1 SPACES/EMPLOYEE)	50 SPACES
2. DR.'S TREATING OUTPATIENTS:	8 (4 SPACES/DOCTOR)	32 SPACES
EXISTING DOCTORS OFFICES		
1. EMPLOYEES PER MAJOR SHIFT:	50 (1 SPACES/EMPLOYEE)	50 SPACES
2. DR.'S TREATING OUTPATIENTS:	24 (4 SPACES/DOCTOR)	96 SPACES
PROPOSED HOSPITAL 'TOWER' ADDITION:		
1. PATIENT BEDS:	40 (1 SPACE/2 BEDS)	20 SPACES
2. EMPLOYEES PER MAJOR SHIFT:	100 (1 SPACE/EMPLOYEE)	100 SPACES
3. DR.'S TREATING OUTPATIENTS ON MAJOR SHIFT:	8 (4 SPACES/DOCTOR)	32 SPACES
TOTAL REQUIRED PARKING:		1060 SPACES

4. GENERAL NOTES:

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.

LANDSCAPE SURETY: THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED 11 SHADE TREES & 4 EVERGREEN TREES AND 30 SHRUBS WITH AN AMOUNT OF $4,800.00 WILL BE PART OF THE DEVELOPER'S AGREEMENT FOR THIS SDP.

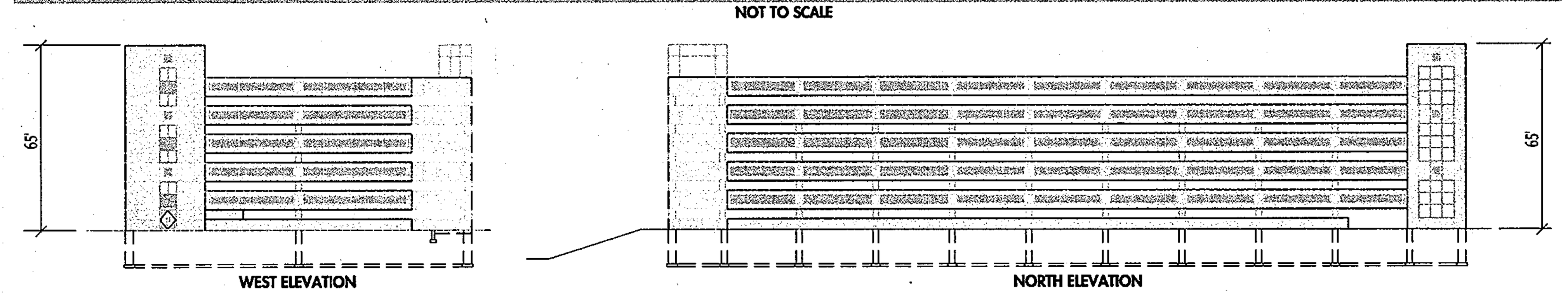
SHEET INDEX

1 OF 13	COVER SHEET FOR SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER AND CANOPY
2 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER, AND CANOPY
3 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL PARKING GARAGE
4 OF 13	LANDSCAPE & LIGHTING PLAN FOR PARKING GARAGE
5 OF 13	SITE DEVELOPMENT, GRADING AND LANDSCAPE DETAILS
6 OF 13	STORM DRAIN PLAN FOR HOSPITAL TOWER, AND CANOPY
7 OF 13	STORM DRAIN PLAN & WATER CONNECTION FOR PARKING GARAGE
8 OF 13	STORM DRAIN PROFILES, SCHEDULES, AND WATER CONNECTION PROFILE
9 OF 13	DRAINAGE AREA MAP FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
10 OF 13	GRADING, SEDIMENT & EROSION CONTROL PLAN FOR HOSPITAL TOWER, AND CANOPY
11 OF 13	GRADING, SEDIMENT & EROSION CONTROL PLAN FOR PARKING GARAGE
12 OF 13	SEDIMENT & EROSION CONTROL NOTES & DETAILS FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)

11/23/10
STATE OF MARYLAND ★ BRIAN E. SIVALING ★ No. 23303 PROFESSIONAL ENGINEER
REV 3 ONLY

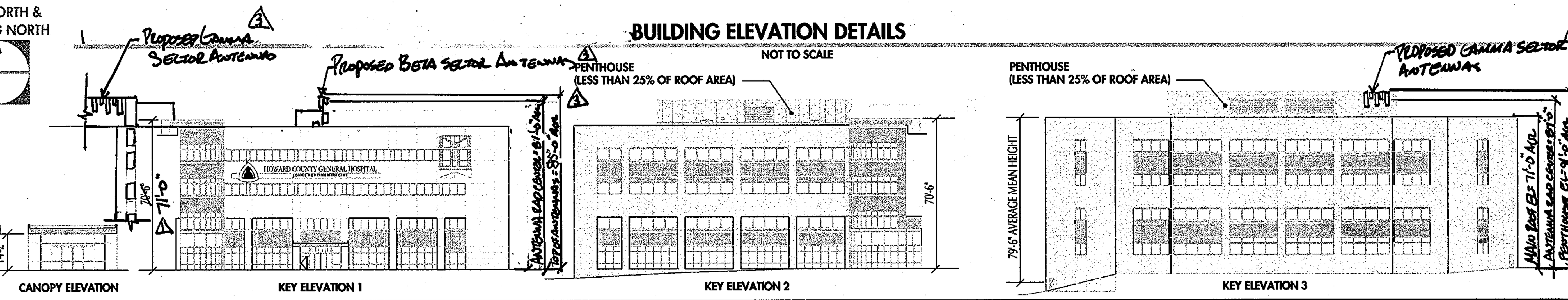
GARAGE ELEVATION DETAILS

NOT TO SCALE



BUILDING ELEVATION DETAILS

NOT TO SCALE



GENERAL BENCH MARK INFORMATION:

ELEVATIONS HEREON ARE BASED UPON THE GRID MERIDIAN OF THE MARYLAND COORDINATE SYSTEM AND DERIVED FROM THE FOLLOWING HOWARD COUNTY CONTROL SYSTEM:

2639003
3/4" IRON BAR ELEVATION = 479.559
LOCATED SOUTH OF LITTLE PATUXENT PARKWAY 12.1 FEET FROM THE FACE OF CONCRETE CURB, 0.16 MILES EAST OF CEDAR LANE

BM#1: GRID POINT NUMBER B-3; A PK NAIL IN THE BITUMINOUS CONCRETE PAVED DRIVEWAY ENTRANCE, ELEVATION = 474.73, 1929 U.S.C.G.S. GENERAL DATUM.

BM#2: GRID POINT NUMBER F-3; A PK NAIL IN THE BITUMINOUS CONCRETE PAVED DOCTOR'S PARKING LOT, WEST OF THE MAIN BUILDING ELEVATION = 470.44, 1929 U.S.C.G.S. GENERAL DATUM.

BM#3: SQUARE CUT IN TOP OF SOUTHEAST CORNER OF CONCRETE PEDESTAL LIGHT BASE IN THE MAIN PARKING LOT, SOUTHEAST SECTION, ELEVATION = 463.79, 1929 U.S.C.G.S. GENERAL DATUM.

GENERAL SITE NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS M.S.H.A. STANDARDS AND SPECIFICATIONS IF APPLICABLE.

2. APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN FROM AVAILABLE UTILITY RECORDS AND INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS REQUIRED TO PROTECT ANY EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S SOLE EXPENSE.

3. THE CONTRACTOR SHALL TEST PIT, BY HAND, ALL EXISTING UTILITY CROSSINGS AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATIONS AND/OR ELEVATIONS ARE OTHER THAN SHOWN.

4. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF CONSTRUCTION FOR ANY WORK SHOWN ON THESE DRAWINGS:

AT&T	1-800-252-1133
BGE (CONTRACTOR SERVICES)	410-850-4620
BGE (UNDER GROUND DAMAGE CONTROL)	410-685-1400
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033 / 410-224-9210
HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION	410-313-1880 (24 HOURS NOTICE PRIOR TO START OF WORK)

5. EXISTING TOPOGRAPHIC SURVEY INFORMATION WAS OBTAINED FROM FIELD RUN SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY DAFT MCCUNE WALKER, DATED FEBRUARY 22, 1995, AND SUPPLEMENTED BY JOYCE ENGINEERING CORPORATION DATED OCTOBER 10, 1999.

6. ALL INLET STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS OR MSHA STANDARDS AS SPECIFIED ON THE STRUCTURE SCHEDULE.

7. OPERATING EXISTING VALVES, SWITCHES, SERVICES OR START UP OF NEW SERVICES SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE.

8. REQUIRED SOIL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE PROVIDED, INSTALLED AND MAINTAINED AS REQUIRED.

9. THE CONTRACTOR SHALL CAREFULLY REMOVE FROM THE AREA TO BE DISTURBED ALL TREES, SHRUBS AND PLANT MATERIALS USING PROCEDURES RECOMMENDED BY THE AMERICAN NURSERYMAN'S ASSOCIATION SO AS TO MAXIMIZE THE CONTINUAL SURVIVAL AND HEALTH OF THE MATERIALS. THESE TREES, SHRUBS AND PLANT MATERIALS SHALL BE TRANSPORTED TO A DESIGNATED LOCATION ON THE OWNER'S PROPERTY AND HEELED INTO A MULCH HOLDING BED FOR FUTURE USE BY THE OWNER IN LOCATIONS OTHER THAN THOSE INVOLVED IN THE CONTRACT WORK, OR PERMANENTLY PLANTED IMMEDIATELY AT THE DIRECTION OF THE LANDSCAPER ARCHITECT OR OWNER.

10. WHERE DEMOLITION IS INDICATED ON THE DRAWINGS, IT SHALL MEAN TO COMPLETELY DEMOLISH THE FEATURE, CLEAR THE AREAS OF ALL DEBRIS AND DISPOSE OF THE MATERIAL OFF-SITE AT A LEGAL DUMP-SITE. ABANDON MEANS TO LEAVE THE FEATURE IN PLACE AND CUT WHERE REQUIRED, AND BULKHEAD ALL CUT ENDS WITH A PLUG OR CAP OR CONSTRUCT A MINIMUM 9" THICK BRICK AND MORTAR BULKHEAD CONFORMING TO THE EXISTING UTILITY MATERIALS.

11. THE NEW TOWN ZONED PORTION OF THIS PROPERTY IS EXEMPT FROM THE FOREST CONSERVATION (FC) ORDINANCE IN ACCORDANCE WITH SECTION 16.1202 [B] [I] [IV] OF THE HOWARD COUNTY CODE.

12. THE POR ZONED PORTION OF THIS PROPERTY IS EXEMPT FROM THE FOREST CONSERVATION (FC) ORDINANCE IN ACCORDANCE WITH SECTION 16.1202 [B] [I] [III] OF THE HOWARD COUNTY CODE.

13. THERE ARE NO KNOWN CEMETERIES OR BURIAL GROUNDS ON THIS SITE.

14. ALL EXTERIOR LIGHTING SHALL COMPLY WITH SECTION 134 OF THE ZONING REGULATIONS.

15. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

16. ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.

17. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVISES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE TO THE PLACEMENT OF ANY ASPHALT.

18. THERE IS NO FLOODPLAIN ON-SITE.

19. THERE ARE NO WETLANDS ON THIS SITE.

20. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP, DATED JUNE 28, 2004.

21. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODEDIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NUMBERS 35C2 AND 35C5 WERE USED FOR THIS PROJECT.

22. THIS SITE IS SERVED BY PUBLIC WATER & SEWER SYSTEM

23. STORMWATER MANAGEMENT (QUANTITY & QUALITY) IS PROVIDED BY AN ON-SITE STORM WATER MANAGEMENT POND DESIGN, APPROVED AND CONSTRUCTED PER SDP-95-114. THE FACILITY IS OWNED AND OPERATED BY THE HOWARD COUNTY GENERAL HOSPITAL. THE ORIGINAL APPROVED FACILITY WAS DESIGNED FOR A TOTAL IMPERVIOUS AREA OF 611,029 SQUARE FEET. THE CURRENT PLAN REFLECTS A TOTAL NET DECREASE OF IMPERVIOUS AREA OF 42,806 SQUARE FEET OR 0.98 ACRES.

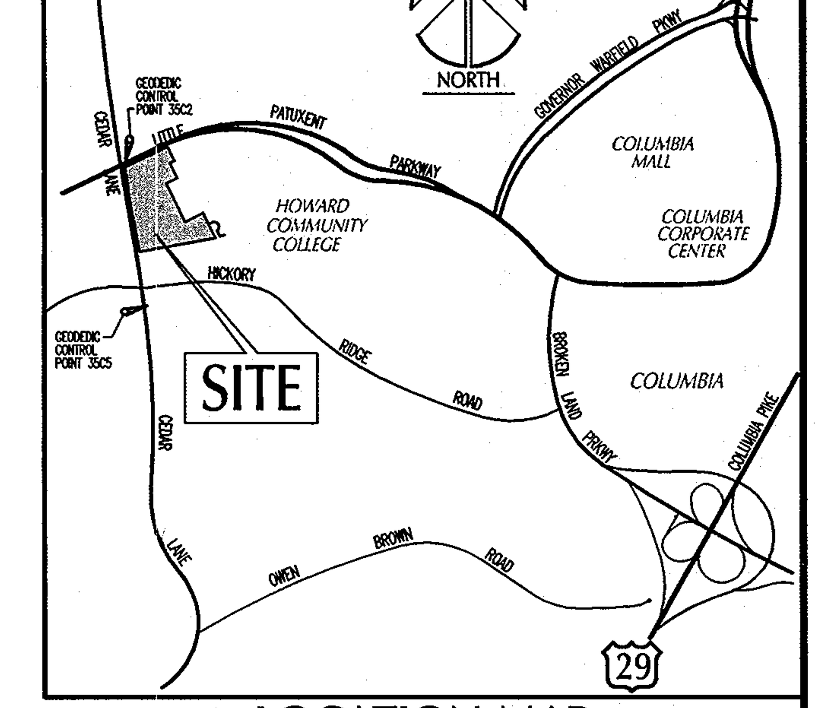
24. THE SUBJECT PROPERTY IS ZONED POR AND NT PER THE 2/02/04 COMPREHENSIVE ZONING PLAN AND THE COMP LITE ZONING REGULATION AMENDMENTS EFFECTIVE 7/28/06.

25. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF $ 4,800.00 FOR 11 SHADE TREES, 4 EVERGREEN TREES, AND 30 SHRUBS.

26. THIS SDP IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL NO. 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY CB-75-2003 AND THE COMP LITE ZONING REGULATION AMENDMENTS. DEVELOPMENT OR CONSTRUCTION ON THIS PROPERTY MUST COMPLY WITH SETBACKS AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING PERMIT APPLICATION.

* THE HOWARD COUNTY GENERAL HOSPITAL MAY CONSTRUCT THE PROPOSED PARKING GARAGE IN PHASES, IE; A 4 OR 5 STORY GARAGE AS PHASE I, AND ADD 1 OR 2 ADDITIONAL LEVELS AT A LATER DATE, DEPENDING UPON NEEDS AND FINANCIAL CAPABILITIES. IF A 4 LEVEL GARAGE IS CONSTRUCTED AS PHASE I THE TOTAL NUMBER OF PARKING SPACES AVAILABLE ON THE SUBJECT PROPERTY WILL BE 1293, IF A 5 LEVEL GARAGE IS CONSTRUCTED AS PHASE I, THE TOTAL NUMBER OF PARKING SPACES AVAILABLE ON THE SUBJECT PROPERTY WILL BE 1310. LEVELS 4 AND 5 EACH CONSIST OF 97 REGULAR SPACES.

NUMBER OF TOTAL SPACES PROVIDED ON SITE WITH A 4 LEVEL GARAGE IS 1213 SPACES, HEIGHT =45'
NUMBER OF TOTAL SPACES PROVIDED ON SITE WITH A 5 LEVEL GARAGE IS 1310 SPACES, HEIGHT =55'
NUMBER OF TOTAL SPACES PROVIDED ON SITE WITH A 6 LEVEL GARAGE IS 1407 SPACES, HEIGHT =65'



LOCATION MAP

PLAN SCALE: 1"=2000'

ADA PARKING TABULATION

OUT-PATIENT/SPECIALTY PARKING:	61 SPACES
VISITOR/AMBULATORY SURGERY PARKING:	81 SPACES
EMERGENCY DEPARTMENT PARKING:	91 SPACES
VISITOR PARKING:	191 SPACES
TOTAL OUTPATIENT/AMBULATORY SURGERY PARKING:	424 SPACES
HANDICAP PARKING REQUIRED @ 10% OF TOTAL PROVIDED:	43 SPACES (SECTION 4.1.2(5)(i))
REMAINING PARKING SPACES ON-SITE:	983 SPACES
HANDICAP PARKING REQUIRED @ 2% OF THE TOTAL PROVIDED:	20 SPACES
TOTAL HANDICAP PARKING REQUIRED:	63 SPACES
HANDICAP PARKING PROVIDED AT HOSPITAL:	
HANDICAP SPACES:	47 SPACES
VAN ACCESSIBLE SPACES:	17 SPACES
TOTAL HANDICAP PARKING AT HOSPITAL:	64 SPACES (REQ'D = 63 SPACES)
HANDICAP PARKING PROVIDED IN GARAGE:	18 SPACES (REQ'D = 0 SPACES)
TOTAL HANDICAP PARKING AVAILABLE ON SITE:	82 SPACES (RED'D = 63[1] SPACES)
TOTAL NON-HANDICAP PARKING ON SITE:	1,325 SPACES
TOTAL PARKING AVAILABLE ON SITE:	1,407 SPACES *

1) AT THIS TIME

CONSTRUCTION PARKING NOTES:

PRIOR SDP "PROVIDED" PARKING:
SDP-00-72: 1027 SPACES
SDP-95-114: 926 SPACES (MOST CURRENT PROVIDED ON-SITE PARKING CONDITION)

CURRENT "REQUIRED" ON-SITE PARKING: 908 SPACES (SDP-95-114)

TOTAL NUMBER OF PARKING SPACES TO BE LOST DURING PARKING GARAGE CONSTRUCTION= 246 SPACES
TOTAL NUMBER OF "ON-SITE" PARKING SPACES PROVIDED DURING PARKING GARAGE CONSTRUCTION= 680 SPACES
TOTAL NUMBER OF "OFF-SITE" PARKING SPACES REQUIRED DURING PARKING GARAGE CONSTRUCTION= 228 SPACES

NOTE: HOWARD COUNTY GENERAL HOSPITAL SHALL PROVIDE OFF-SITE PARKING AT SEVERAL LOCATIONS AROUND THE COLUMBIA AREA. COPIES OF LEASES/AGREEMENTS TO UTILIZE THE OFF-SITE LOCATIONS SHALL BE PROVIDED TO THE HOWARD COUNTY GOVERNMENT PRIOR TO ISSUANCE OF THE PARKING GARAGE BUILDING PERMIT. THE LEASES/AGREEMENTS SHALL REMAIN VALID DURING THE ENTIRE PERIOD OF CONSTRUCTION ACTIVITY ON THE GARAGE, AND CAN ONLY BE TERMINATED AFTER ISSUANCE OF A VALID USE PERMIT FOR THE PARKING GARAGE STRUCTURE.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 4/12/07
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 4/17/07
DIRECTOR	DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION
5/15/09	1	VERIZON WIRELESS ROOFTOP EQUIPMENT SHELTER
6/1/09	2	ADDED FENCE ALONG SOUTH PROP. LINE
11/23/10	3	VERIZON WIRELESS ROOFTOP EQ. PLATFORM

6/1/09
STATE OF MARYLAND STEPHEN HOPKINS ... JR. 3423 LANDSCAPE ARCHITECT
FOR REVISION 2 ONLY

04.03.07
DATE
STATE OF MARYLAND MATTHEW E. JOYCE No. 27729 PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER. NO. 27729

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceeng.com
Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCsetSP01.dwg
Plotted: Apr 03, 2007 - 2:39pm

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - PARKING GARAGE

PERMIT INFORMATION CHART

SUBDIVISION			SECTION/AREA		LOT/PARCEL #
HCGH TOWN CENTER			8/2		4/276
PLAT# OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENCUS TRACT
18628 (19000)	5	POR/NT	35	5TH	6053.02
WATER CODE			SEWER CODE		
106			5522500		

TITLE: COVER SHEET FOR HOSPITAL TOWER, CANOPY, AND PARKING GARAGE ADDITION

DES BY WAJ	SCALE 1" = 100'	PROJ. NO. 99015T
DRN BY HAL	DATE OCT, 2006	1 OF 13
CHK BY JEC	APPROVED WAJ	

SHEET INDEX

1 OF 13	COVER SHEET FOR SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER AND CANOPY
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4 OF 13	LANDSCAPE & LIGHTING PLAN FOR PARKING GARAGE
5 OF 13	SITE DEVELOPMENT, GRADING AND LANDSCAPE DETAILS
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8 OF 13	STORM DRAIN PROFILES, SCHEDULES, AND WATER CONNECTION PROFILE
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13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)

NOTES:

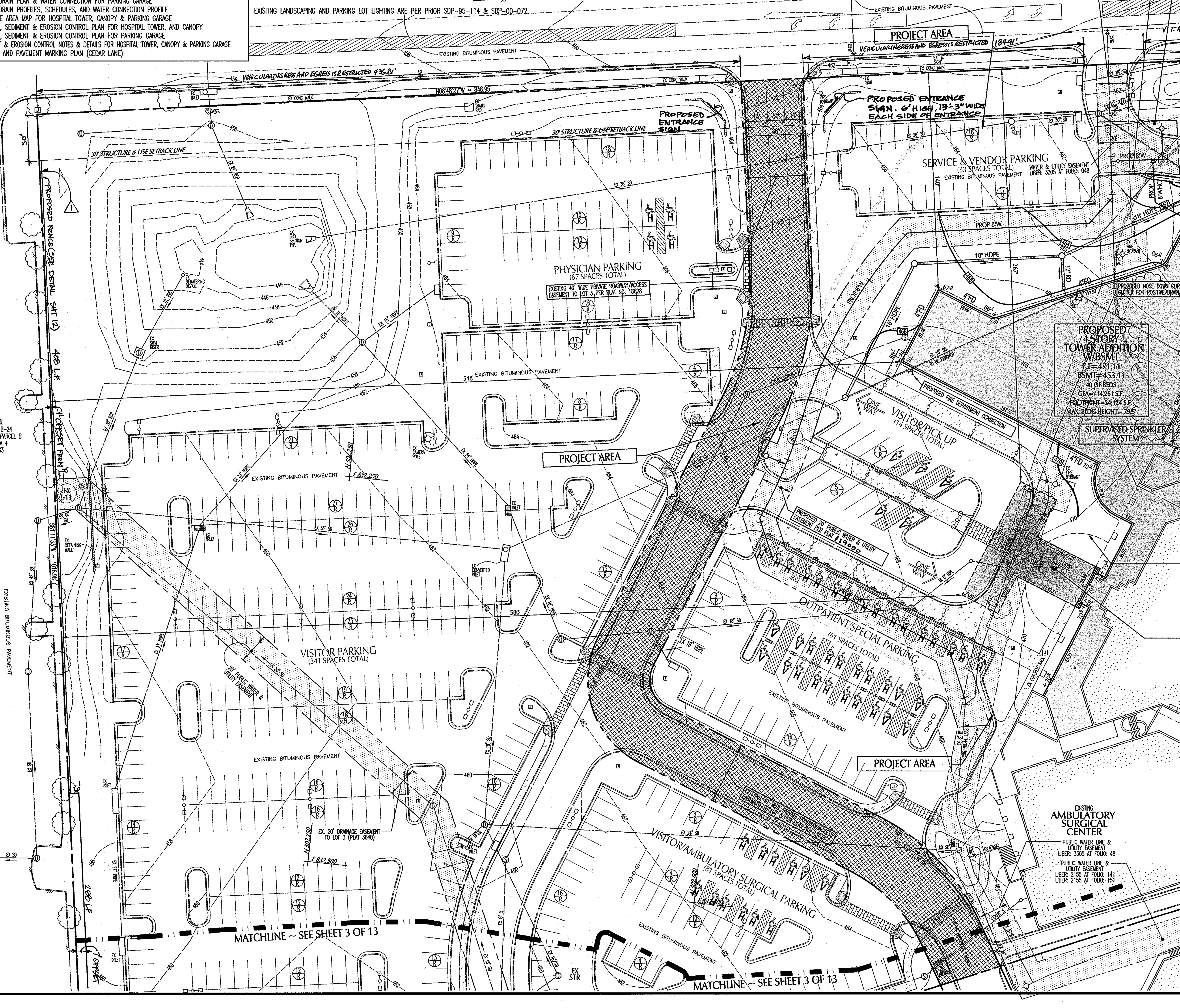
STORMWATER MANAGEMENT (QUANTITY & QUALITY) IS PROVIDED BY AN ON-SITE STORM WATER MANAGEMENT POND DESIGN, APPROVED AND CONSTRUCTED PER SDP-95-114. THE FACILITY IS OWNED AND OPERATED BY THE HOWARD COUNTY GENERAL HOSPITAL. THE ORIGINAL APPROVED FACILITY WAS DESIGNED FOR A TOTAL IMPERVIOUS AREA OF 611,029 SQUARE FEET. THE CURRENT PLAN REFLECTS A TOTAL NET DECREASE OF IMPERVIOUS AREA OF 42,806 SQUARE FEET OR 0.98 ACRES.

FOR SITE DEVELOPMENT LEGEND, REFER TO SHEET 3 OF 13.

EXISTING LANDSCAPING AND PARKING LOT LIGHTING ARE PER PRIOR SDP-95-114 & SDP-00-072.

CEDAR LANE
80' PUBLIC RIGHT of WAY
MINOR ARTERIAL ROAD

NOTE: RESTRIPPING OF CEDAR LANE TO REFLECT CHANGES TO THE HOSPITAL ENTRANCE WERE REVISED AND APPROVED AS PART OF THE RED-LINE REVISION TO SDP-95-114. THE RESTRIPPING PLAN IS INCLUDED IN THIS (SDP-95-114) PLAN PACKAGE AS SHEET 13 OF 13.



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APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 4/12/07
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 4/12/07
DIRECTOR	DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION
6/1/09	1	ADDED FENCE ALONG SOUTH PROP. LINE

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

FOR REVISION ONLY
STATE OF MARYLAND STEPHEN HOPKINS HAYES, JR. 3423 LANDSCAPE ARCHITECT

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceeng.com
Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCsetSP02.dwg
Plotted: Apr 03, 2007 - 2:40pm

MD.STATE PLANE
NORTH
PLAN SCALE: 1"=30'

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - PARKING GARAGE

PERMIT INFORMATION CHART

SUBDIVISION			SECTION/AREA		LOT/PARCEL #
HCGH TOWN CENTER			8/2		4/276
PLAT# OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18628 (19000)	5	POR/NT	35	5TH	6053.02
WATER CODE			SEWER CODE		
106			5522500		

04.03.07
DATE

STATE OF MARYLAND MATTHEW E. ... No. 27729 PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER. NO. 27729

TITLE

SITE DEVELOPMENT AND GRADING FOR HOSPITAL TOWER , AND CANOPY

DES BY WAJ	SCALE 1" = 30'	PROJ. NO. 99015T
DRN BY HAL	DATE OCT, 2006	2 OF 13
CHK BY JEC	APPROVED WAJ	

SDP-07-57

EXISTING BITUMINOUS PAVEMENT

PROPOSED OIL GRIT SEPARATOR, REFER TO MECHANICAL PLANS FOR DETAILS.

VISITOR PARKING (341 SPACES TOTAL)

PROPOSED LIMIT OF DISTURBANCE AND NEW PAVEMENT

PROVIDE DEPRESSED CURB FOR HANDICAP ACCESS TO LOBBY ENTRANCE.

MATCHLINE – SEE SHEET 2 OF 13

N/F PARCEL E COLUMBIA TOWN CENTER SECTION 8 AREA 4 PLAT No. 4706 ZONE: NT

EXISTING BITUMINOUS PAVEMENT

18" HDPE

ELEC. ROOM

ELEV. ROOM

STAIRWELL

UPPER LEVEL ENTRANCE

HOSPITAL STAFF PARKING (369 SPACES TOTAL)

PROPOSED TRANSFORMER ON CONCRETE PAD. SEE ARCHITECTURAL PLANS FOR DETAILS.

PROPOSED GENERATOR ON RAISED CONCRETE PAD. SEE ARCHITECTURAL PLANS FOR DETAILS.

TO BE REMOVED

N/F PARCEL C COLUMBIA TOWN CENTER SECTION 8 AREA 4 PLAT No. 5305 ZONE: NT

EXISTING BITUMINOUS PAVEMENT

PROPOSED 6 STORY PARKING GARAGE
UPPER VEHICLE ENT=464.8
LOWER VEHICLE ENT=454.8
620 REGULAR SPACES
18 HANDICAP SPACES
638 TOTAL GARAGE SPACES

* SEE NOTE @ RIGHT

PROJECT AREA

PROPOSED FENCE

EX. INLET TO BE REMOVED

PROP. 8" DOC

EX. 18" ST. TO BE REMOVED

30' BUILDING STRUCTURE & USE SETBACKS LINE

EXIST. 4' CONCRETE SIDEWALK

PROPOSED FIRE DEPARTMENT CONNECTION

CONTRACTOR SHALL REMOVE EXISTING CONCRETE SIDEWALK AND INSTALL CONCRETE SIDEWALK RAMP PER HO.CO. STD DET. R 4.01 (TYPICAL EACH SIDE).

CHARTER DRIVE (60' PUBLIC R/W)

CENTERLINE INTERSECTION STATION 13+30.01

CENTERLINE

CONTRACTOR SHALL REMOVE EXISTING CONCRETE CURB & GUTTER AND CONNECT NEW CURB & GUTTER AND ENTRANCE TO EXISTING PAVEMENT IN LINE & GRADE. SEE HO.CO. STD DET. R 6.07.

EXIST. FIRE HYDRANT

EXIST. 4' CONCRETE SIDEWALK

CONTRACTOR CONSTRUCT NEW 4' CONCRETE SIDEWALK PER HO. CO. STD DET. R 3.05

EXISTING 20' SEWER R/W PER CONTRACT C-371 W&S

N/F PARCEL C2 COLUMBIA TOWN CENTER SECTION 8-AREA 2 PLAT #6074 ZONE: NT

EXISTING BITUMINOUS PAVEMENT

VISITOR/AMBULATORY SURGICAL PARKING (81SPACES TOTAL)

MATCHLINE – SEE SHEET 2 OF 13

EXISTING AMBULATORY SURGICAL CENTER

EXISTING MEDICAL ARTS BUILDING
3 STORY
STUCCO BUILDING

N/F HOWARD COUNTY OFFICE BUILDING PARTNERSHIP SECTION 8, AREA 2 PLAT #3648 ZONE: POR

EXISTING HOWARD COUNTY GENERAL HOSPITAL

S23°50'46"E – 217.00'

S23°50'46"E – 553.00'

EX. CONCRETE WALK

INV (IN) =456.88
INV (IN) =443.77
INV (OUT) =443.67

PROJECT AREA

N/F LOT 3 HOWARD COUNTY GENERAL HOSPITAL, INC TOWN CENTER SECTION 8-AREA 2 PLAT #3648

EXISTING BITUMINOUS PAVEMENT

EXISTING SEWER CONTRACT AS PART OF RED-LINE REVISION TO SDP-94-114.

TOP=461.27
INV (IN) =441.17
INV (OUT)=440.62

EXISTING 20' SEWER R/W PER CONTRACT 371-S

EXISTING BITUMINOUS PAVEMENT

EXISTING FIRE R/W

EXISTING FENCE

30' WIDE SEWER LINE EASEMENT LIBER: 0690 @ FOLIO: 557

N 832,750
E 832,500

S39°08'14"W – 154.00'

N39°08'14"E – 169.00'

ELKRIDGE WAY

ELKRIDGE LANDING BLVD.

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NOTE:

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EXISTING LANDSCAPING AND PARKING LOT LIGHTING ARE PER PRIOR SDP-95-114 & SDP-00-072

SHEET INDEX

1 OF 13	COVER SHEET FOR SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER AND CANOPY
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4 OF 13	LANDSCAPE & LIGHTING PLAN FOR PARKING GARAGE
5 OF 13	SITE DEVELOPMENT, GRADING AND LANDSCAPE DETAILS
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12 OF 13	SEDIMENT & EROSION CONTROL NOTES & DETAILS FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)

SITE LEGEND:

BUILDING TIE — 580'
HANDICAP "VAN" SPACE
HANDICAP SPACE
PARKING SPACE COUNT/TYPE — 12
HANDICAP PAINT AREA
DEPRESSED CURB
SPILL CURB
PEDESTRIAN CROSS WALK
ADA RAMP AREA
EXISTING STORM DRAIN TO BE REMOVED
EXISTING LANDSCAPE TREE
PROPOSED LANDSCAPE TREE
RELOCATED TREE
NEW PARKING LOT LIGHT
EXISTING ELECTRIC JUNCTION BOX

NORTH
PLAN SCALE: 1"=30'

6/1/2009
DATE
STEPHEN HOPKINS WAJ 3433 LANDSCAPE ARCHITECT
FOR REVISION 1 ONLY

04.03.07
DATE
STATE OF MARYLAND MATTHEW A. LAFFERTY No. 22729 PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER. NO. 22729

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 4/12/07
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 4/12/07
DIRECTOR — DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION
6/1/09	1	ADDED FENCE ALONG SOUTH PROP. LINE

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceng.com

Drawing name: R:\Land Projects\89015T - Howard County General Tower\dwg\89015THCoatSP03.dwg
Plotted: Apr 03, 2007 - 2:42pm

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – PARKING GARAGE

PERMIT INFORMATION CHART

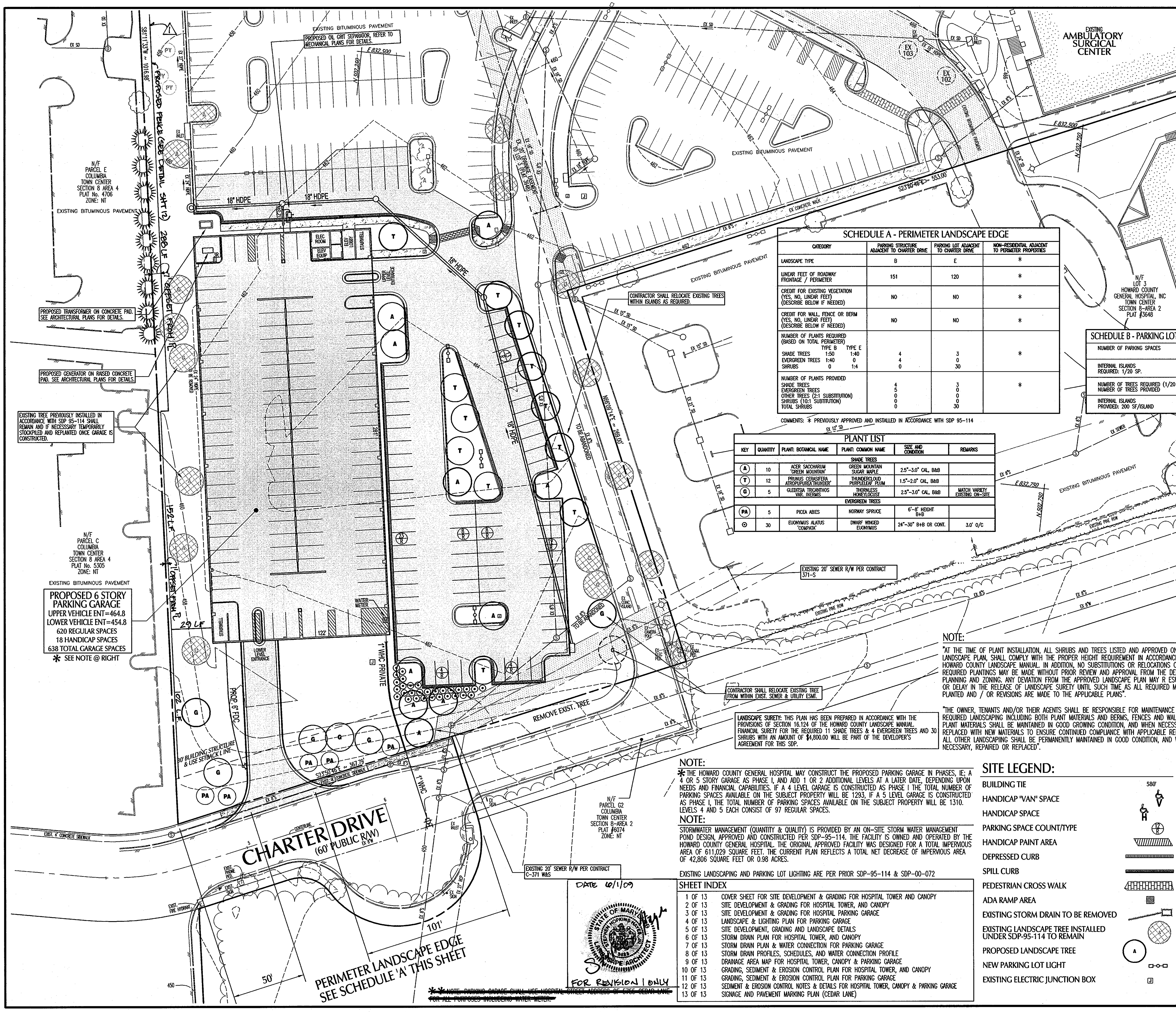
SUBDIVISION	HCGH TOWN CENTER		SECTION/AREA	8/2	LOT/PARCEL 4/276
PLAT# OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18628	5	POR/NT	35	5TH	6053.02
WATER CODE	106		SEWER CODE	5522500	

TITLE

SITE DEVELOPMENT AND GRADING FOR PARKING GARAGE ADDITION

DES BY WAJ	SCALE 1" = 30'	PROJ. NO. 89015L	
DRN BY HAL	DATE OCT, 2006	3 OF 13	
CHK BY JEC	APPROVED WAJ		

SDP-07-57



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SCHEDULE A - PERIMETER LANDSCAPE EDGE

CATEGORY	PARKING STRUCTURE ADJACENT TO CHARTER DRIVE	PARKING LOT ADJACENT TO CHARTER DRIVE	NON-RESIDENTIAL ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	B	E	*
LINEAR FEET OF ROADWAY FRONTAGE / PERIMETER	151	120	*
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	*
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	*
NUMBER OF PLANTS REQUIRED (BASED ON TOTAL PERIMETER) TYPE B / TYPE E SHADE TREES 1:50 / 1:40 EVERGREEN TREES 1:40 / 0 SHRUBS 0 / 1:4	 4 4 0	 3 0 30	*
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBTITUTION) TOTAL SHRUBS	 4 5 0 0 0	 3 0 0 0 30	*

COMMENTS: * PREVIOUSLY APPROVED AND INSTALLED IN ACCORDANCE WITH SDP 95-114

SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING (NEW LOT)

NUMBER OF PARKING SPACES	72
INTERNAL ISLANDS REQUIRED: 1/20 SP.	4
NUMBER OF TREES REQUIRED (1/20 SP.): NUMBER OF TREES PROVIDED	4 8
INTERNAL ISLANDS PROVIDED: 200 SF/ISLAND	18 3630 SF

PLANT LIST

KEY	QUANTITY	PLANT: BOTANICAL NAME	PLANT: COMMON NAME	SIZE AND CONDITION	REMARKS
SHADE TREES					
A	10	ACER SACCHARUM 'GREEN MOUNTAIN'	GREEN MOUNTAIN SUGAR MAPLE	2.5"-3.0" CAL, B&B	
T	12	PRUNUS CERASIFERA ATROPUPUREA'THUNDER'	THUNDERCLOUD PURPLELEAF PLUM	1.5"-2.0" CAL, B&B	
G	5	GLEDITSIA TRICANTHOS VAR. INERMIS	THORNLESS HONEYLOCUST	2.5"-3.0" CAL, B&B	MATCH VARIETY EXISTING ON-SITE
EVERGREEN TREES					
PA	5	PICEA ABIES	NORWAY SPRUCE	6'-8' HEIGHT B+B	
⊙	30	EUONYMUS ALATUS 'COMPATA'	DWARF WINGED EUONYMUS	24"-30" B+B OR CONT.	3.0' O/C

DEVELOPER'S/OWNER'S LANDSCAPE CERTIFICATE:

"I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. I/WE FURTHER CERIFY THAT UPON COMPLETION A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING."

[signature] 4-3-07

DEVELOPER'S/OWNER'S NAME BETH PLAYNER — DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[signature] CHIEF, DEVELOPMENT ENGINEERING DIVISION — 4/12/07 DATE

[signature] CHIEF, DIVISION OF LAND DEVELOPMENT — 4/17/07 DATE

[signature] DIRECTOR — 4/17/07 DATE

DATE	NO.	REVISION DESCRIPTION
6/1/09	1	ADDED FENCE ALONG SOUTH PROP. LINE

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MEMBER ONE CALL SYSTEMS INTERNATIONAL
CALL TOLL FREE 1-800-257-7777
www.missutility.net/itics

NOTE:

"AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY R ESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND / OR REVISIONS ARE MADE TO THE APPLICABLE PLANS".

"THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER LANDSCAPIING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED".

LANDSCAPE SURETY: THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED 11 SHADE TREES & 4 EVERGREEN TREES AND 30 SHRUBS WITH AN AMOUNT OF $4,800.00 WILL BE PART OF THE DEVELOPER'S AGREEMENT FOR THIS SDP.

NOTE:

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EXISTING LANDSCAPING AND PARKING LOT LIGHTING ARE PER PRIOR SDP-95-114 & SDP-00-072

~~** NOTE: PARKING GARAGE SHALL USE HOSPITAL STREET ADDRESS OF 5755 CEDAR LANE FOR ALL PURPOSES INCLUDEING WATER METER.~~

DATE 6/1/09
STATE OF MARYLAND STEPHEN HOPKINS HAYES JR. LANDSCAPE ARCHITECT 3423
FOR REVISION 1 ONLY

SHEET INDEX

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SITE LEGEND:

- BUILDING TIE (580')
- HANDICAP "VAN" SPACE
- HANDICAP SPACE
- PARKING SPACE COUNT/TYPE
- HANDICAP PAINT AREA
- DEPRESSED CURB
- SPILL CURB
- PEDESTRIAN CROSS WALK
- ADA RAMP AREA
- EXISTING STORM DRAIN TO BE REMOVED
- EXISTING LANDSCAPE TREE INSTALLED UNDER SDP-95-114 TO REMAIN
- PROPOSED LANDSCAPE TREE
- NEW PARKING LOT LIGHT
- EXISTING ELECTRIC JUNCTION BOX

MD.STATE PLANE
NORTH
PLAN SCALE: 1"=30'

04.03.07
DATE
STATE OF MARYLAND MATHEW E. ... No. 27729 PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER. NO. 22729

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceeng.com
Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCsetSP04.dwg
Plotted: Apr 03, 2007 - 2:47pm

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – PARKING GARAGE

PERMIT INFORMATION CHART

SUBDIVISION			SECTION/AREA		LOT/PARCEL #
HCGH TOWN CENTER			8/2		4/276
PLAT# OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18628 (19000)	5	POR/NT	35	5TH	6053.02
WATER CODE			SEWER CODE		
106			5522500		

TITLE

LANDSCAPE & LIGHTING FOR PARKING GARAGE ADDITION

DES BY WAJ	SCALE 1" = 30'	PROJ. NO. 89015L
DRN BY HAL	DATE OCT, 2006	4 OF 13
CHK BY JEC	APPROVED WAJ	

LANDSCAPE NOTES

1. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL/ENGINEERING PLANS TO BECOME THOROUGHLY FAMILIAR WITH GRADING AND SURFACE UTILITIES.

2. ALL EQUIPMENT AND TOOLS SHALL BE PLACED SO AS NOT TO INTERFERE OR HINDER THE PEDESTRIAN AND VEHICULAR TRAFFIC FLOW.

3. THE CONTRACTOR SHALL COORDINATE WITH LIGHTING AND IRRIGATION CONTRACTORS REGARDING TIMING OF INSTALLATION OF PLANT MATERIAL.

4. THE CONTRACTOR SHALL INSURE THAT HIS WORK DOES NOT INTERRUPT ESTABLISHED OR PROJECTED DRAINAGE PATTERNS.

5. DURING PLANTING OPERATIONS, EXCESS WASTE MATERIALS SHALL BE PROMPTLY AND FREQUENTLY REMOVED FROM THE SITE.

6. CALL MISS UTILITY A MINIMUM OF THREE DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR IS ADVISED OF THE EXISTENCE OF UNDERGROUND UTILITIES ON THE SITE. THEIR EXACT LOCATION SHALL BE VERIFIED IN THE FIELD WITH THE OWNER OR GENERAL CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY DIGGING OPERATIONS. IN THE EVENT THEY ARE UNCOVERED, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO UTILITIES AND SUCH DAMAGE SHALL NOT RESULT IN ANY ADDITIONAL EXPENSES TO THE OWNER, ANY DAMAGE OF UNREPORTED LINES SHALL NOT BE THE RESPONSIBILITY OF THE CONTRACTOR.

7. IF UTILITY LINES ARE ENCOUNTERED IN EXCAVATION OF TREE PITS, OTHER LOCATIONS FOR TREES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION. NO CHANGES OF LOCATION SHALL BE MADE WITHOUT APPROVAL BY THE LANDSCAPE ARCHITECT.

8. MAINTAIN POSITIVE DRAINAGE OUT OF PLANTING BEDS AT A MINIMUM 2% SLOPE. ALL GRADES, DIMENSIONS, AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR ON SITE BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR OWNER.

9. EVERY POSSIBLE SAFEGUARD SHALL BE TAKEN TO PROTECT BUILDING SURFACES, EQUIPMENT, AND FURNISHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY TO PERSON OR PROPERTY WHICH MAY OCCUR AS A RESULT OF HIS NEGLIGENCE IN THE EXECUTION OF THE WORK.

10. IN THE EVENT OF VARIATION BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND THE PLANS, THE PLANS SHALL CONTROL. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO THE COMMENCEMENT OF WORK. SEED QUANTITY TAKE-OFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DISCREPANCIES SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO BIDDING. THE CONTRACTOR SHALL FURNISH PLANT MATERIAL IN SIZES AS SPECIFIED IN PLANT LIST.

11. PLANTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS OR AS DESIGNATED IN THE FIELD. THE CONTRACTOR SHALL STAKE ALL MATERIAL LOCATED ON THE SITE FOR REVIEW AND/OR ADJUSTMENT BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. ALL LOCATIONS ARE TO BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE EXCAVATION.

12. PLANTS SHALL CONFORM TO CURRENT 'AMERICAN STANDARDS FOR NURSERY STOCK' BY AMERICAN ASSOCIATION OF NURSERYMEN (AAN), PARTICULARLY WITH REGARD TO SIZE, GROWTH, SIZE OF BALL, AND DENSITY OF BRANCH STRUCTURE. PLANT MATERIAL SHALL BE TAGGED AT THE SOURCE BY THE LANDSCAPE ARCHITECT UNLESS THIS REQUIREMENT IS SPECIFICALLY WAIVED.

13. ALL PLANTS (B&B OR CONTAINER) SHALL BE PROPERTY IDENTIFIED BY WEATHERPROOF LABELS SECURELY ATTACHED THERETO BEFORE DELIVERY TO PROJECT SITE. LABELS SHALL IDENTIFY PLANTS' BY NAME. SPECIES, AND SIZE, LABELS SHALL NOT BE REMOVED UNTIL THE FINAL INSPECTION BY THE LANDSCAPE ARCHITECT OR AGENT IN CHARGE.

14. ANY MATERIAL AND/OR WORK MAY BE REJECTED BY THE LANDSCAPE ARCHITECT IF IT DOES NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS. ALL REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

15. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER OR LANDSCAPE ARCHITECT.

16. THE LANDSCAPE ARCHITECT OR OWNER SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL WORK AND MATERIAL WHICH, IN HIS OPINION, DOES NOT MEET THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.

17. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR STABILITY AND CONDITIONS OF ALL TREES AND SHRUBS AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIALS. STAKING OF ALL TREES SHALL BE DONE UTILIZING A METHOD AGREED UPON BY THE LANDSCAPE ARCHITECT, AS INDICATED ON THE DOCUMENTS.

18. ALL PROPOSED TREES TO BE INSTALLED EITHER ENTIRELY ON OR ENTIRELY OUT OF PLANTING BEDS. PLANTING BED LINES ARE NOT TO BE OBSTRUCTED. ALL SHRUBS AND GROUND COVER AREAS SHALL BE PLANTED IN CONTINUOUS PREPARED BED AND TOP DRESSED WITH 3-INCH SHREDDED HARDWOOD MULCH, MULCH SHALL HAVE BEEN SHREDDED WITHIN THE LAST SIX MONTHS.

19. SPADE EDGE ALL PLANTING BEDS.

20. MAINTENANCE SHALL BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE UNTIL 90 DAYS AFTER FINAL ACCEPTANCE BY THE ARCHITECT OR OWNER REPRESENTATIVE. MAINTENANCE INCLUDES WATERING, PRUNING, WEEDING, FERTILIZING, MULCHING, REPLACEMENT OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY FOR THE PROPER GROWTH OF THE PLANT MATERIAL. THE CONTRACTOR MUST BE ABLE TO PROVIDE CONTINUED MAINTENANCE IF REQUESTED BY THE OWNER.

21. UPON COMPLETION OF ALL LANDSCAPING, AN ACCEPTANCE OF WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR OWNER FOR SCHEDULING THE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO THE ANTICIPATED INSPECTION DATE.

22. ALL TREES SHALL BE GUARANTEED FOR 12 MONTHS FROM THE DATE OF ACCEPTANCE. ALL SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR 12 MONTHS FROM THE DATE OF ACCEPTANCE. REPLACEMENT PLANTS USED SHALL BE GUARANTEED FOR AN ADDITIONAL 90 DAYS.

23. THE CONTRACTOR IS RESPONSIBLE FOR TESTING PROJECT SOILS. THE CONTRACTOR IS TO PROVIDE A CERTIFIED SOILS REPORT TO THE OWNER. THE CONTRACTOR SHALL VERITY THAT THE SOILS ON SITE ARE ACCEPTABLE FOR THE PROPER GROWTH OF THE PROPOSED PLANT MATERIAL. SHOULD THE CONTRACTOR FIND POOR SOIL CONDITIONS, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE SOIL AMENDMENTS AS NECESSARY. THESE AMENDMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, FERTILIZERS, LIME, AND TOPSOIL. PROPER PLANTING SOILS MUST BE VERIFIED PRIOR TO PLANTING OF MATERIALS.

24. THE CONTRACTOR SHALL DISPOSE OF STUMPS AND MAJOR ROOTS OF ALL PLANTS TO BE REMOVED. ANY DEPRESSIONS CAUSED BY REMOVAL OPERATIONS SHALL BE REFILLED WITH FERTILE, FRIABLE SOIL PLACED AND COMPACTED SO AS TO REESTABLISH PROPER GRADE FOR NEW PLANTING AND/OR LAWN AREAS.

25. THE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS.

26. ALL DISTURBED AREAS OF THE SITE NOT PLANTED WITH SHRUBS OR GROUND COVER SHALL BE FINE GRADED AND SEEDED.

27. ALL LAWN AREAS TO BE SEEDED WHERE DISTURBANCE HAS OCCURRED WITHIN THE LIMIT OF CONSTRUCTION, LOOSEN UPPER 30 OF SOIL BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. AMEND SOIL PER SOIL TEST RECOMMENDATIONS. DURING THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST I THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS. PER 1000 SQ. FT.) OF REBEL 11 TALL FESCUE. FOR THE PERIOD MAY I THRU JULY 31 SEED WITH 60 LBS. REBEL II TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS,1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY SPREADING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.

28. SEED MULCH: APPLY 1.5 TO 2 TONS/ACRE (70-90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES > 8%, USE 348 GAL. PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

29. INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS AND RESEED UNTIL LAWN IS ESTABLISHED.

30. BULBS: IN ACCORDANCE WITH SECTION 11 OF THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS

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4 OF 13	LANDSCAPE & LIGHTING PLAN FOR PARKING GARAGE
5 OF 13	SITE DEVELOPMENT, GRADING AND LANDSCAPE DETAILS
6 OF 13	STORM DRAIN PLAN FOR HOSPITAL TOWER, AND CANOPY
7 OF 13	STORM DRAIN PLAN & WATER CONNECTION FOR PARKING GARAGE
8 OF 13	STORM DRAIN PROFILES, SCHEDULES, AND WATER CONNECTION PROFILE
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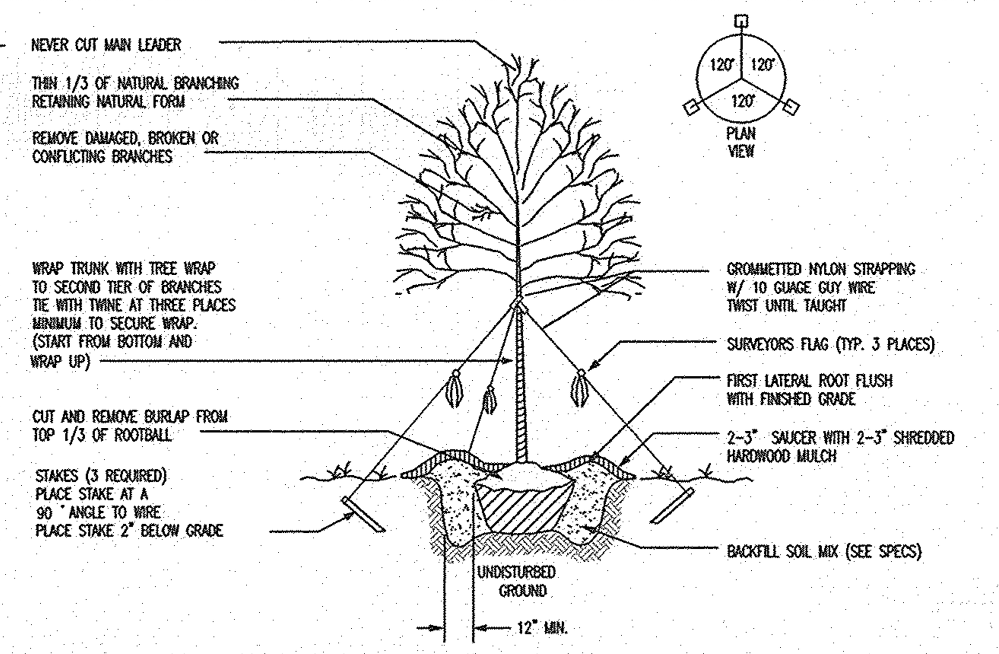
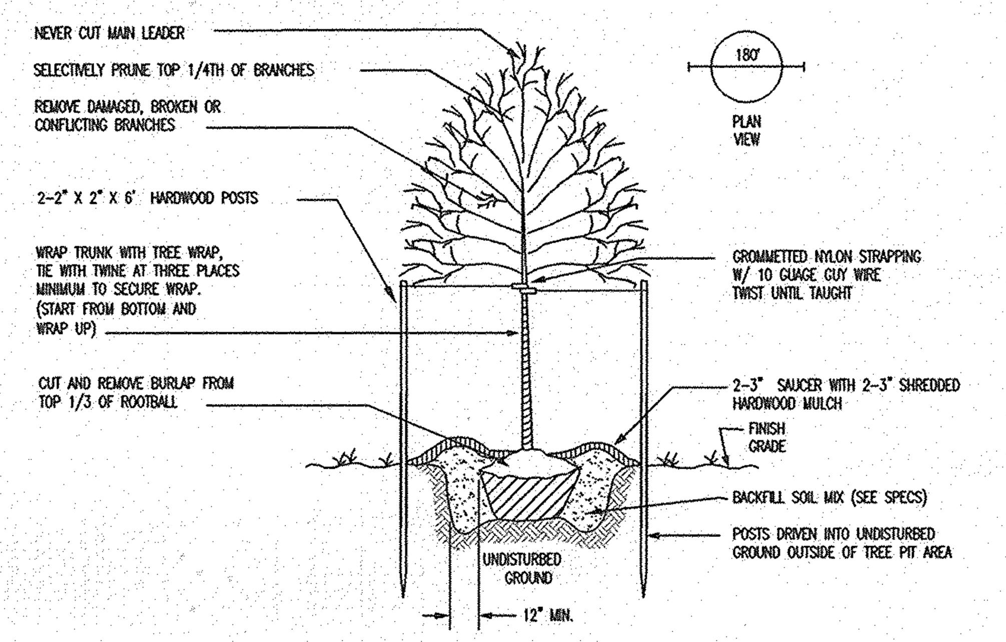
13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)



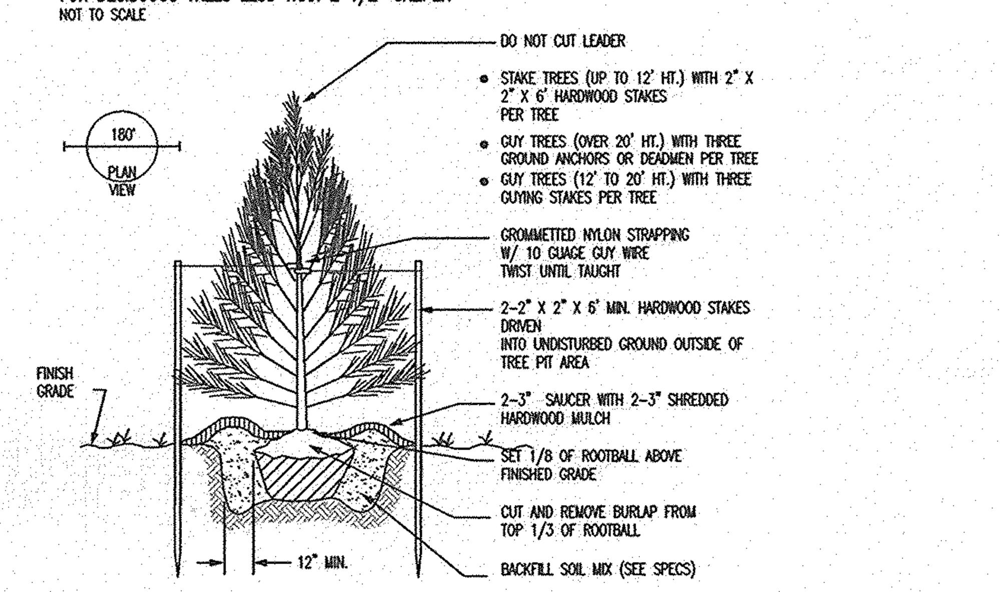
BALL & BAG TREE PLANTING DETAIL

FOR DECIDUOUS TREES 2 1/2" CALIPER OR GREATER
NO TO SCALE



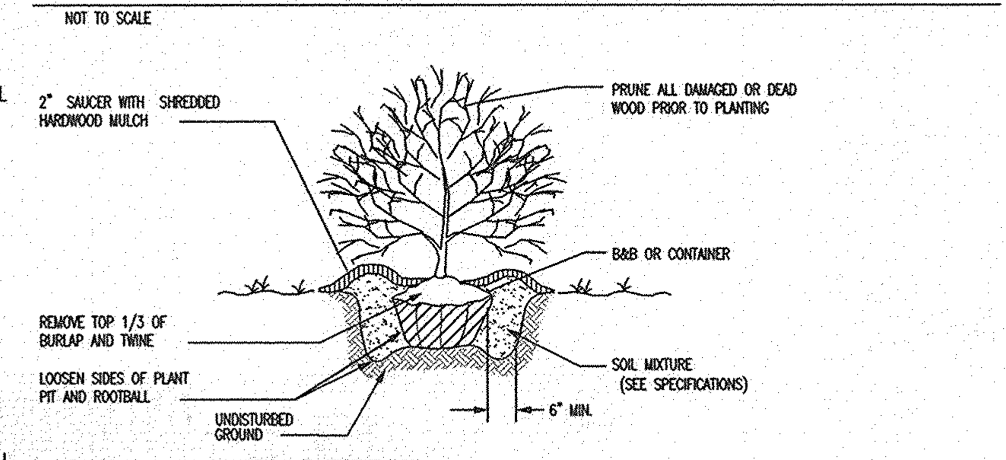
BALL & BAG TREE PLANTING DETAIL

FOR DECIDUOUS TREES LESS THAN 2 1/2" CALIPER
NOT TO SCALE



EVERGREEN TREE PLANTING DETAIL

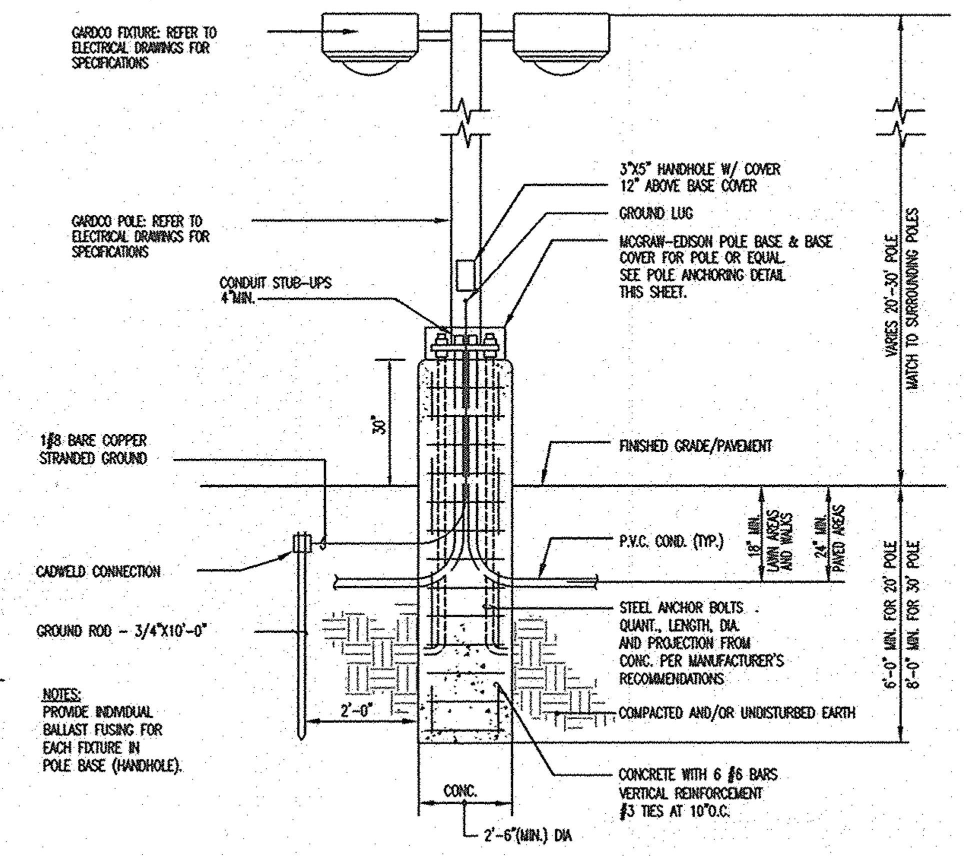
NOT TO SCALE



SHRUB PLANTING DETAIL

DECIDUOUS OR EVERGREEN
NO TO SCALE

NOTE: ALL JUNIPER PLANTS SHALL BE PLANTED SO TOP OF ROOT MASS OCCURS AT FINISHED GRADE OF MULCH LAYER. ANY BROKEN ROOTBALL WILL BE REJECTED.



SITE LIGHTING POLE BASE AND LAMP FIXTURES

NOT TO SCALE
CAUTION: SOIL CONSISTANCY MUST BE VERIFIED WITH STRUCTURAL/GEOTECHNICAL ENGINEERS.

LIGHTING NOTES

1. LIGHTING CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR LIGHTING OF PARKING EXPANSION. THESE DRAWINGS ARE TO ACCOMPANY THE BID.

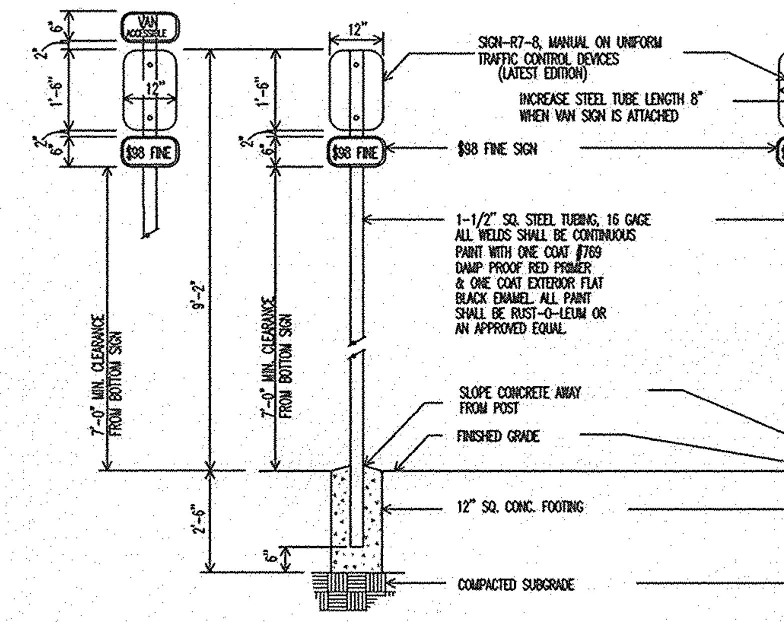
2. PARKING FIXTURE TYPE AND POLE TO MATCH EXISTING FIXTURES AND POLES. VERIFY MANUFACTURER, MODEL NUMBER AND LOCATION OF EXISTING LIGHT FIXTURES. SEE NOTE #6.

3. INCLUDE CIRCUITRY IN BID AND ON SHOP DRAWINGS.

4. SEE ARCHITECTURAL PLANS FOR LOCATION OF PEDESTRIAN LIGHTING FOR ENTRANCE WALK AREA.

5. ALL EXTERIOR LIGHTING SHALL COMPLY WITH SECTION 134 OF THE ZONING REGULATIONS.

6. FOR DETAILS OF LIGHTING FIXTURES, INSTALLATION, DESIGN CRITERIA, AND SITE LIGHTING INFORMATION, REFER TO ELECTRICAL PLANS PREPARED BY LEACH WALLACE ASSOCIATES, INC. THE INFORMATION SHOWN ON THIS PLAN IS GENERIC IN NATURE AND THE CONTRACTOR SHALL COMPLY WITH ANY AND ALL INFORMATION SHOWN ON LEACH WALLACE ASSOCIATES PLANS.

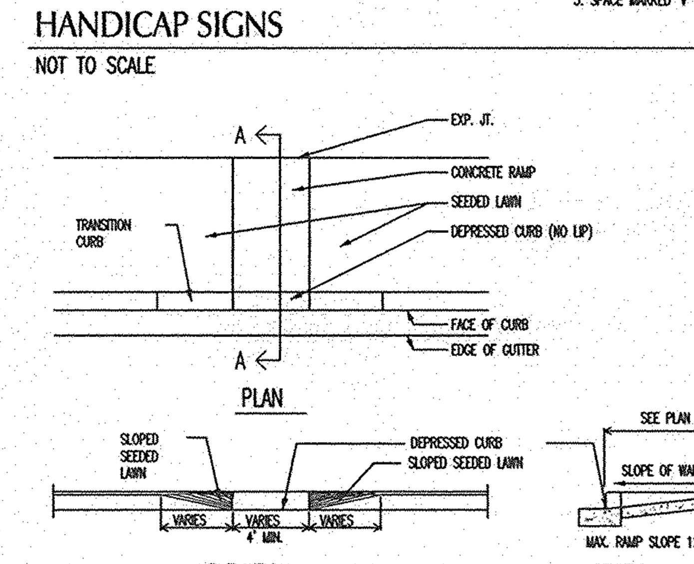


SIGN COLORS
LETTERS AND BORDER - GREEN
WHITE H.C. SYMBOLS ON BLUE BACKGROUND
BACKGROUND - WHITE

NOTES:
1. DISTANCE FROM GROUND TO BOTTOM OF SIGN SHALL BE 7'
2. SEE HANDICAPPED PARKING SPACE DETAILTHIS SHEET FOR LOCATION OF HANDICAPPED SIGN.
3. SPACE MARKED 'V' SHALL INCLUDE 'VAN SIGN' AS REQUIRED

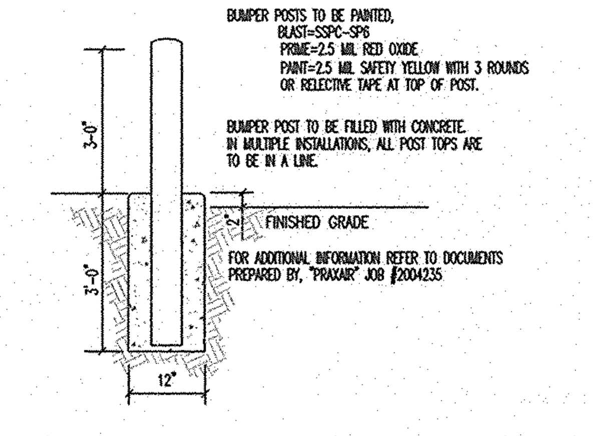
HANDICAP SIGNS

NOT TO SCALE



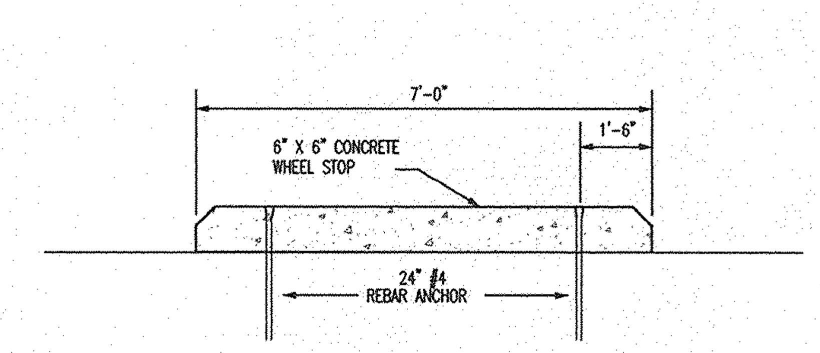
HANDICAP RAMP TYPE B

NOT TO SCALE



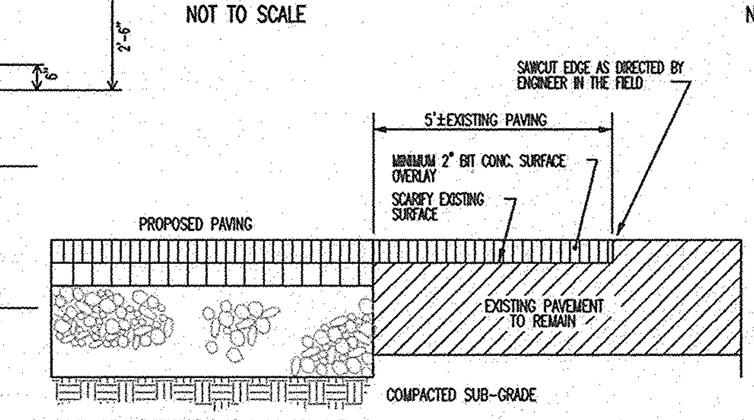
BOLLARD DETAIL

NOT TO SCALE



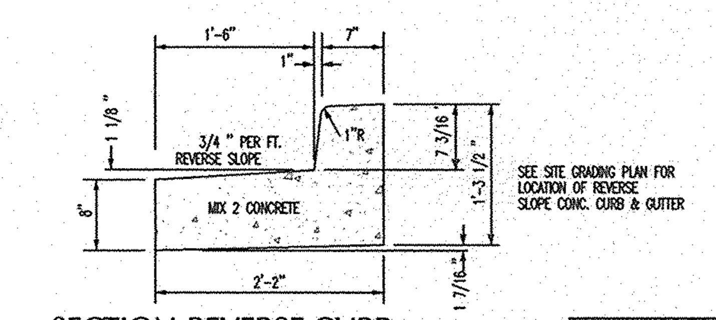
CONCRETE WHEEL STOP

NOT TO SCALE



TRANSITION PAVING *

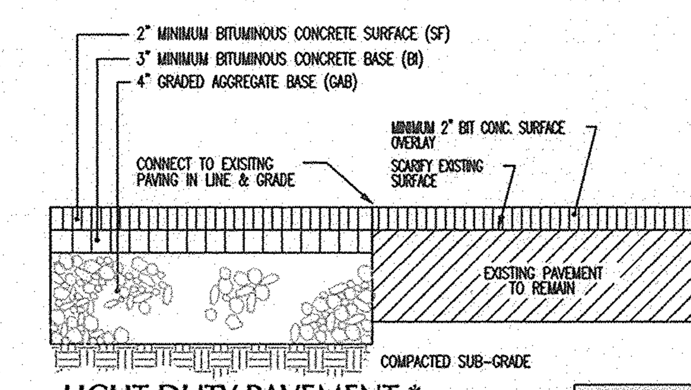
NOT TO SCALE



SECTION-REVERSE CURB

SHOWN THUS:

NOT TO SCALE



LIGHT DUTY PAVEMENT *

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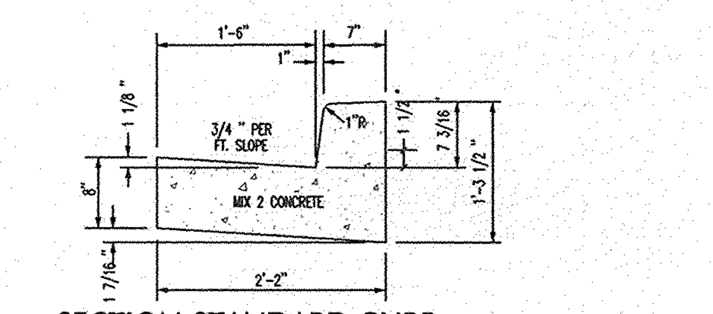

SECTION-STANDARD CURB

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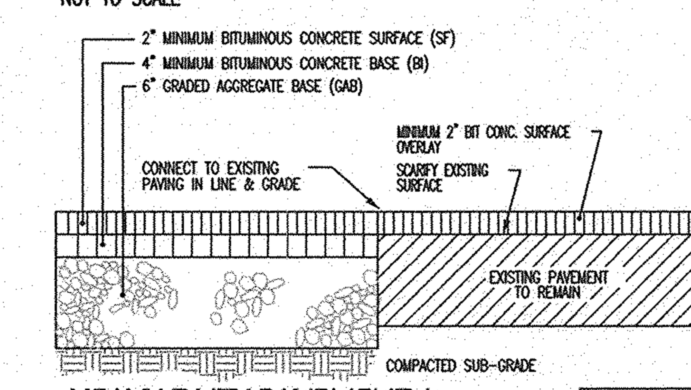

HEAVY DUTY PAVEMENT *

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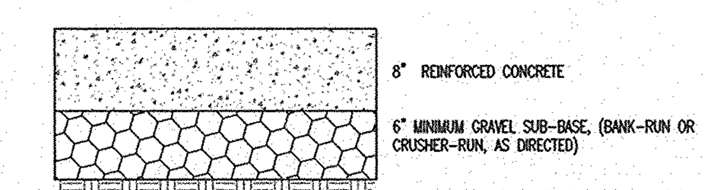

CONCRETE PAVEMENT *

SHOWN THUS:

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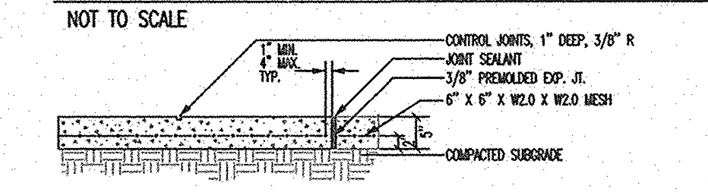
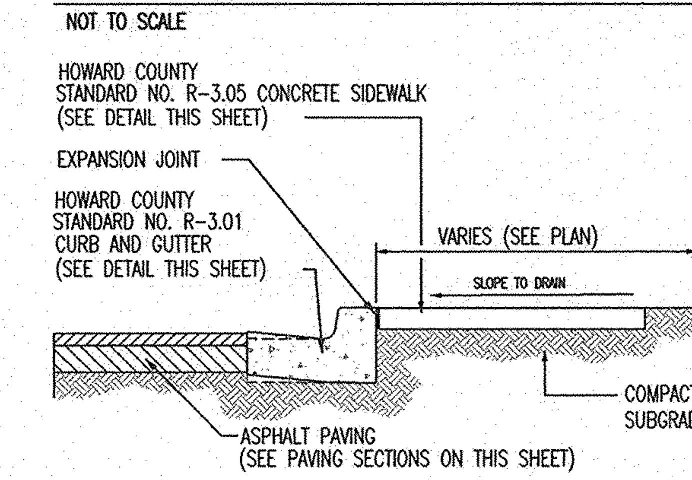


CONCRETE WALK*

SHOWN THUS:

NOT TO SCALE

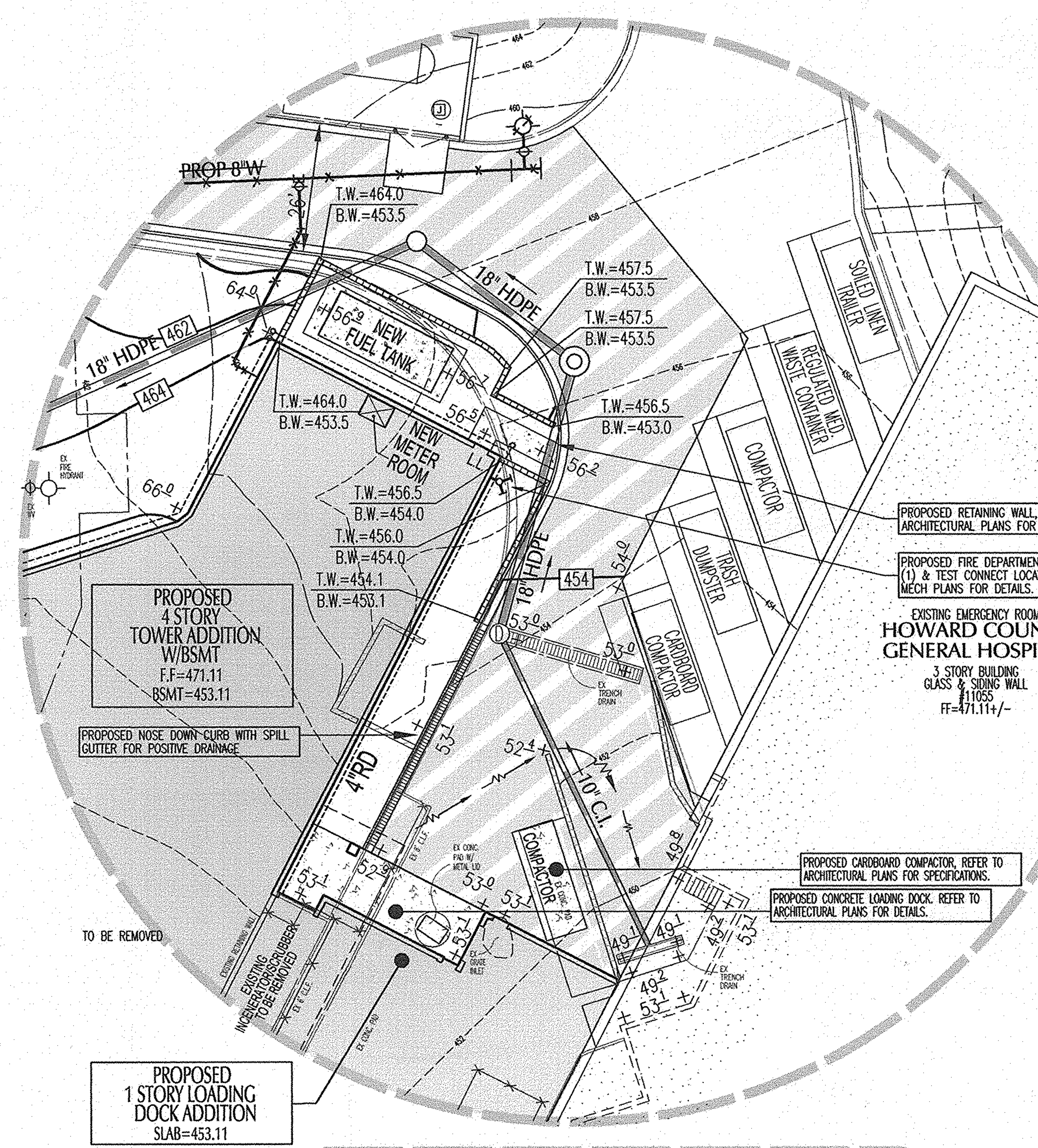


SIDEWALK DETAIL

NOT TO SCALE

TYPICAL PAVING SECTIONS

NOT TO SCALE
* THE PAVING SECTIONS SHOWN ARE PROVIDED FOR GENERAL SITE DESIGN ONLY. THE DESIGNS ARE SUBJECT TO REVIEW AND REVISIONS BY A GEO-TECHNICAL ENGINEER,



INSET~SPOT ELEVATIONS, REFER TO SHEET 3 OF 13

PLAN SCALE: 1"=20'

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	4/12/07 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	4/17/07 DATE
DIRECTOR	4/17/07 DATE

DATE	NO.	REVISION DESCRIPTION

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

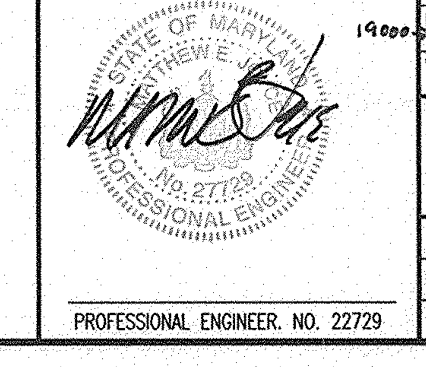
JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceeng.com

Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCsetSP05.dwg
Plotted: Apr 03, 2007 - 2:48pm

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - PARKING GARAGE

04.03.07
DATE



PROFESSIONAL ENGINEER. NO. 22729

PERMIT INFORMATION CHART

SUBDIVISION			SECTION/AREA		LOT/PARCEL #
HCGH TOWN CENTER			8/2		4/276
PLAT# OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18628 (19000)	5	POR NT	35	5TH	6053.02
WATER CODE			SEWER CODE		
106			5522500		

TITLE SITE DEVELOPMENT, GRADING & LANDSCAPE DETAILS FOR HOSPITAL TOWER , CANOPY, AND PARKING GARAGE ADDITION

DES BY WAJ	SCALE AS SHOWN	PROJ. NO. 89015L
DRN BY HAL	DATE OCT, 2006	5 OF 13
CHK BY JEC	APPROVED WAJ	

SDP-07-57

SHEET INDEX	
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13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)

NOTES:

STORMWATER MANAGEMENT (QUANTITY & QUALITY) IS PROVIDED BY AN ON-SITE STORM WATER MANAGEMENT POND DESIGN, APPROVED AND CONSTRUCTED PER SDP-95-114. THE FACILITY IS OWNED AND OPERATED BY THE HOWARD COUNTY GENERAL HOSPITAL. THE ORIGINAL APPROVED FACILITY WAS DESIGNED FOR A TOTAL IMPERVIOUS AREA OF 611,029 SQUARE FEET. THE CURRENT PLAN REFLECTS A TOTAL NET DECREASE OF IMPERVIOUS AREA OF 42,806 SQUARE FEET OR 0.98 ACRES.

FOR SITE DEVELOPMENT LEGEND, REFER TO SHEET 3 OF 13.

EXISTING LANDSCAPING AND PARKING LOT LIGHTING ARE PER PRIOR SDP-95-114 & SDP-00-072.

CEDAR LANE
80' PUBLIC RIGHT of WAY
MINOR ARTERIAL ROAD

NOTE: RESTRIPPING OF CEDAR LANE TO REFLECT CHANGES TO THE HOSPITAL ENTRANCE WERE REVISED AND APPROVED AS PART OF THE RED-LINE REVISION TO SDP-95-114. THE RESTRIPPING PLAN IS INCLUDED IN THIS (SDP-95-114) PLAN PACKAGE AS SHEET 13 OF 13.

ENGINEER'S AS-BUILT CERTIFICATION
I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS STORMWATER MANAGEMENT FACILITY HAS BEEN CONSTRUCTED, IN ACCORDANCE WITH THE APPROVED PLANS & SPECIFICATIONS.

PROPOSED 4 STORY TOWER ADDITION W/BSMT
F.F.=471.11
BSMT=453.11
40 OF BEDS
GFA=114,261 S.F.
FOOTPRINT=24,124 S.F.
MAX. BLDG HEIGHT=79'

PROPOSED 1 STORY LOADING DOCK ADDITION
SLAB=453.11

PROPOSED ENTRANCE CANOPY
3,350 S.F.

EXISTING MAIN LOBBY
HOWARD COUNTY GENERAL HOSPITAL
5 STORY BUILDING
GLASS & STONE WALL
#11055
FF=471.11+/-

EXISTING EMERGENCY ROOM
HOWARD COUNTY GENERAL HOSPITAL
3 STORY BUILDING
GLASS & STONE WALL
#11055
FF=471.11+/-

EXISTING AMBULATORY SURGICAL CENTER

SERVICE & VENDOR PARKING (33 SPACES TOTAL)
PHYSICIAN PARKING (67 SPACES TOTAL)
VISITOR PARKING (341 SPACES TOTAL)
VISITOR/PICK UP (14 SPACES TOTAL)
OUTPATIENT/SPECIAL PARKING (61 SPACES TOTAL)
VISITOR/AMBULATORY SURGICAL PARKING (61 SPACES TOTAL)

SUPERVISED SPRINKLER SYSTEM

MATCHLINE ~ SEE SHEET 7 OF 12

N/F COLUMBIA TOWN CENTER LOTS B-1 THRU B-24 A RESUBDIVISION OF PARCEL B SECTION 8 AREA 4 PLAT No. 4883 ZONE: NT

ELECTRONIC FILE DISCLAIMER: THE INFORMATION CONTAINED HEREON WAS PREPARED AS AN ELECTRONIC "CAD" FILE BY JOYCE ENGINEERING CORPORATION (JEC). JEC HAS TAKEN REASONABLE STEPS TO ASSURE THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, HOWEVER, JEC CANNOT GUARANTEE THAT CHANGES AND/OR ALTERATIONS HAVE NOT BEEN MADE TO THE FILE. NO RELIANCE ON THE INFORMATION CONTAINED HEREON SHALL BE MADE UNLESS THE INFORMATION IS FIRST COMPARED TO THE SIGNED ORIGINAL DOCUMENT. JEC SHALL ASSUME NO LIABILITY OR RESPONSIBILITY, AND DOES NOT GRANT ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF ANY INFORMATION THAT HAS BEEN TRANSMITTED OR RECEIVED VIA COMPUTER OR OTHER ELECTRONIC MEANS. IF VERIFICATION OF THE INFORMATION CONTAINED HEREON, OR IF THE ELECTRONIC FILE USED TO CREATE THIS DOCUMENT IS REQUIRED, PLEASE CONTACT JEC DIRECTLY. THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM INCLUDING ELECTRONIC OR PHOTO REPRODUCTION WITHOUT THE EXPRESS WRITTEN PERMISSION OF JEC. BY ACCEPTANCE OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES ACCEPTANCE OF THE ABOVE TERMS AND CONDITIONS.

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48 Hours
Before You Dig
Call
"MISS UTILITY"
Service Protection Center
MEMBER ONE CALL SYSTEMS INTERNATIONAL
CALL TOLL FREE
1-800-257-7777
www.missutility.net/ifics

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 4/12/07
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 4/12/07
DIRECTOR — DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION
6/1/09	⚠	ADDED FENCE ALONG SOUTH PROP. LINE

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

FOR REVISION ONLY — DATE 6/1/09
STATE OF MARYLAND — JAMES C. WOLFE — No. 23423 — LANDSCAPE ARCHITECT

MD STATE PLANE
NORTH
PLAN SCALE: 1"=30'

04.03.07
DATE
STATE OF MARYLAND — MATTHEW E. MAUS — No. 21729 — PROFESSIONAL ENGINEER
AS-BUILT DATE: 9-9-09
EXP. DATE: 07.15.09
PROFESSIONAL ENGINEER. NO. 27729

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4163 FAX: (301) 595-4630 WEB: www.joyceeng.com
Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCSsetSP02.dwg
Plotted: Apr 03, 2007 - 2:41pm

ADDRESS CHART	
LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 ~ HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 ~ PARKING GARAGE

PERMIT INFORMATION CHART

SUBDIVISION			SECTION/AREA		LOT/PARCEL
HCGH TOWN CENTER			8/2		4/276
PLAT OR L/F	BLOCK	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18828	S	POR/NT	35	5TH	6053.02
WATER CODE			SEWER CODE		
106			5522500		

TITLE

STORM DRAIN PLAN FOR HOSPITAL TOWER, AND CANOPY

DES BY WAJ	SCALE 1" = 30'	PROJ. NO. 99015T
DRN BY HAL	DATE OCT, 2006	6 OF 12
CHK BY JEC	APPROVED WAJ	

SDP-07-57

ENGINEER'S AS-BUILT CERTIFICATION

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS STORMWATER MANAGEMENT FACILITY HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS & SPECIFICATIONS.

NOTE:

* THE HOWARD COUNTY GENERAL HOSPITAL MAY CONSTRUCT THE PROPOSED PARKING GARAGE IN PHASES, IE; A 4 OR 5 STORY GARAGE AS PHASE I, AND ADD 1 OR 2 ADDITIONAL LEVELS AT A LATER DATE, DEPENDING UPON NEEDS AND FINANCIAL CAPABILITIES. IF A 4 LEVEL GARAGE IS CONSTRUCTED AS PHASE I THE TOTAL NUMBER OF PARKING SPACES AVAILABLE ON THE SUBJECT PROPERTY WILL BE 1293, IF A 5 LEVEL GARAGE IS CONSTRUCTED AS PHASE I, THE TOTAL NUMBER OF PARKING SPACES AVAILABLE ON THE SUBJECT PROPERTY WILL BE1310. LEVELS 4 AND 5 EACH CONSIST OF 97 REGULAR SPACES.

NOTE:

STORMWATER MANAGEMENT (QUANTITY & QUALITY) IS PROVIDED BY AN ON-SITE STORM WATER MANAGEMENT POND DESIGN, APPROVED AND CONSTRUCTED PER SDP-95-114. THE FACILITY IS OWNED AND OPERATED BY THE HOWARD COUNTY GENERAL HOSPITAL. THE ORIGINAL APPROVED FACILITY WAS DESIGNED FOR A TOTAL IMPERVIOUS AREA OF 611,029 SQUARE FEET. THE CURRENT PLAN REFLECTS A TOTAL NET DECREASE OF IMPERVIOUS AREA OF 42,806 SQUARE FEET OR 0.98 ACRES.

EXISTING LANDSCAPING AND PARKING LOT LIGHTING ARE PER PRIOR SDP-95-114 & SDP-00-072

SHEET INDEX

1 OF 13	COVER SHEET FOR SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER AND CANOPY
2 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER, AND CANOPY
3 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL PARKING GARAGE
4 OF 13	LANDSCAPE & LIGHTING PLAN FOR PARKING GARAGE
5 OF 13	SITE DEVELOPMENT, GRADING AND LANDSCAPE DETAILS
6 OF 13	STORM DRAIN PLAN FOR HOSPITAL TOWER, AND CANOPY
7 OF 13	STORM DRAIN PLAN & WATER CONNECTION FOR PARKING GARAGE
8 OF 13	STORM DRAIN PROFILES, SCHEDULES, AND WATER CONNECTION PROFILE
9 OF 13	DRAINAGE AREA MAP FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
10 OF 13	GRADING, SEDIMENT & EROSION CONTROL PLAN FOR HOSPITAL TOWER, AND CANOPY
11 OF 13	GRADING, SEDIMENT & EROSION CONTROL PLAN FOR PARKING GARAGE
12 OF 13	SEDIMENT & EROSION CONTROL NOTES & DETAILS FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)

DATE 6/1/09

STATE OF MARYLAND — STEPHEN HOPKINS HAVES — LANDSCAPE ARCHITECT — 3423

FOR REVISION 1 ONLY

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48 Hours Before You Dig Call "MISS UTILITY" Service Protection Center

MEMBER — ONE CALL SYSTEMS INTERNATIONAL

CALL TOLL FREE 1-800-257-7777
www.missutility.net/itics

SITE LEGEND:

- BUILDING TIE — 580'
- HANDICAP "VAN" SPACE
- HANDICAP SPACE
- PARKING SPACE COUNT/TYPE
- HANDICAP PAINT AREA
- DEPRESSED CURB
- SPILL CURB
- PEDESTRIAN CROSS WALK
- ADA RAMP AREA
- EXISTING STORM DRAIN TO BE REMOVED
- EXISTING LANDSCAPE TREE
- PROPOSED LANDSCAPE TREE
- RELOCATED TREE
- NEW PARKING LOT LIGHT
- EXISTING ELECTRIC JUNCTION BOX

MD.STATE PLANE

NORTH

PLAN SCALE: 1"=30'

04.03.07

DATE

STATE OF MARYLAND — MATHEW E. JOYCE — No. 22729 — PROFESSIONAL ENGINEER

AS-BUILT DATE: 9-9-09
EXP. DATE 07.15.10

PROFESSIONAL ENGINEER. NO. 22729

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 4/12/07
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 4/17/07
DIRECTOR	DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION
6/1/09	1	ADDED FENCE ALONG SOUTH PROP. LINE

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceeng.com

Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCsetSP03.dwg
Plotted: Apr 03, 2007 - 2:43pm

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - PARKING GARAGE

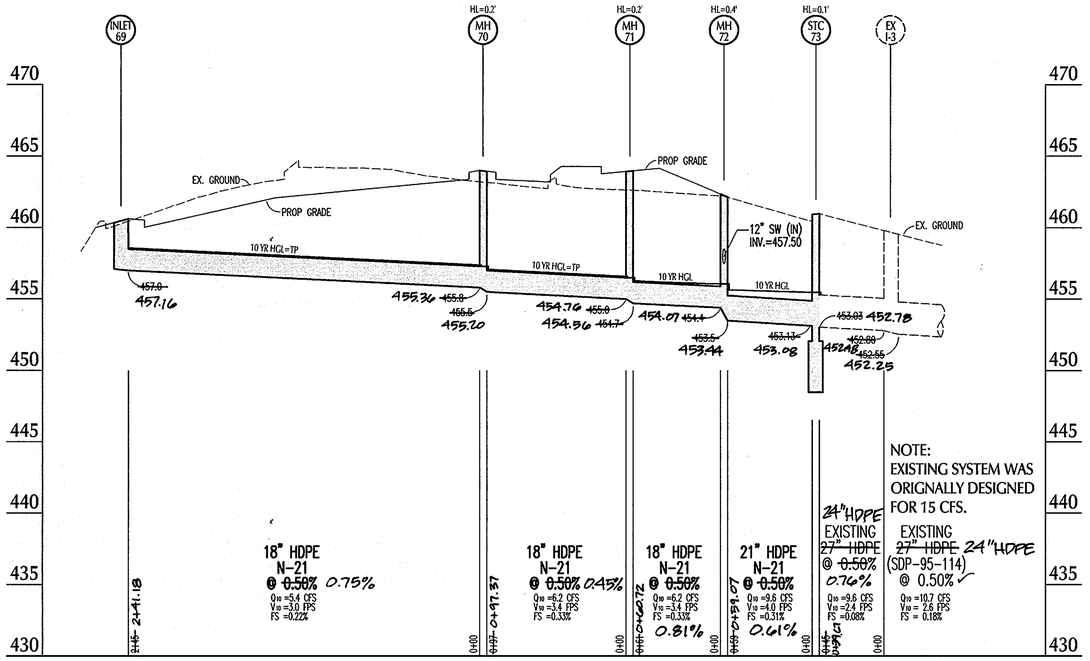
PERMIT INFORMATION CHART

SUBDIVISION			SECTION/AREA		LOT/PARCEL #
HCGH TOWN CENTER			8/2		4/276
PLAT# OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18628	5	POR/NT	35	5TH	6053.02
WATER CODE			SEWER CODE		
106			5522500		

19000

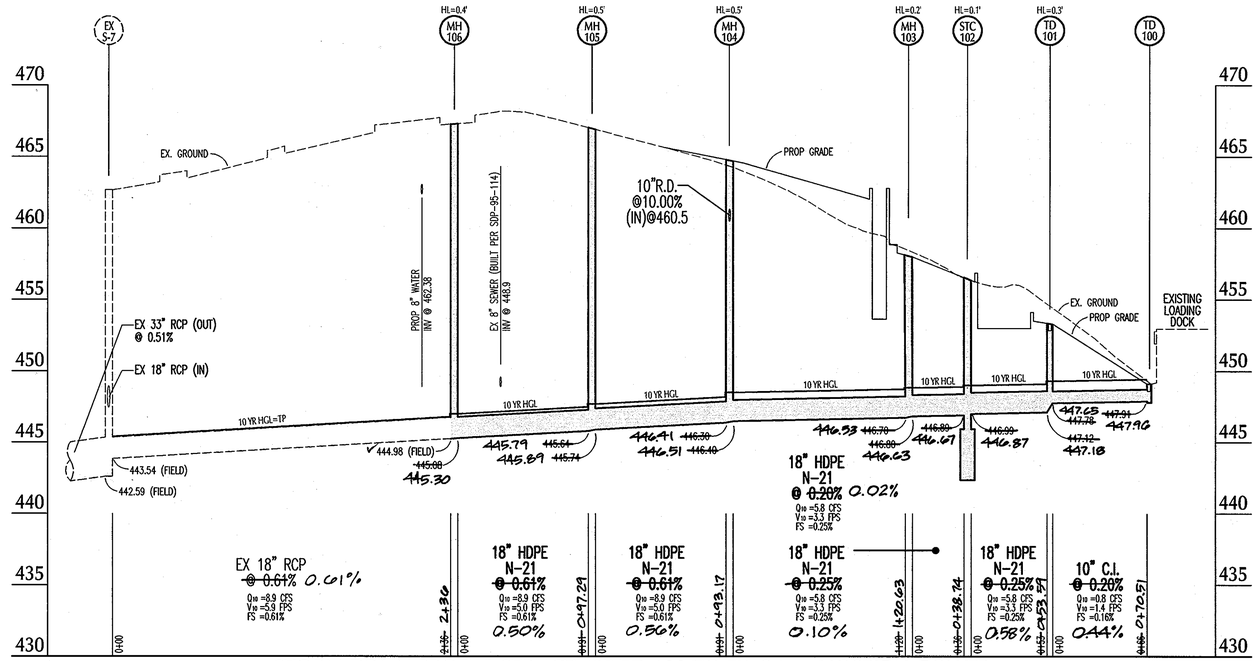
TITLE STORM DRAIN & WATER CONNECTION PLAN FOR PARKING GARAGE ADDITION

DES BY WAJ	SCALE 1" = 30'	PROJ. NO. 89015L
DRN BY HAL	DATE OCT, 2006	7 OF 13
CHK BY JEC	APPROVED WAJ	



STORM DRAIN PROFILE STRUCTURE 69 TO EX. I-3 ~ PARKING GARAGE

PROFILE SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'



STORM DRAIN PROFILE STRUCTURE TD 100 TO EX. S-7 ~ HOSPITAL TOWER

PROFILE SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'

SHEET INDEX

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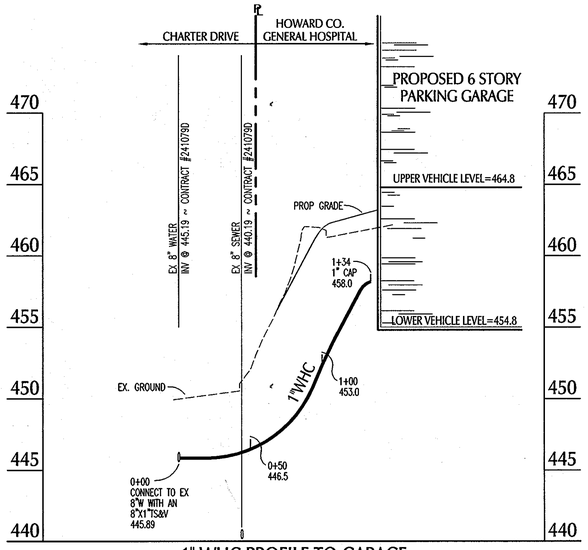


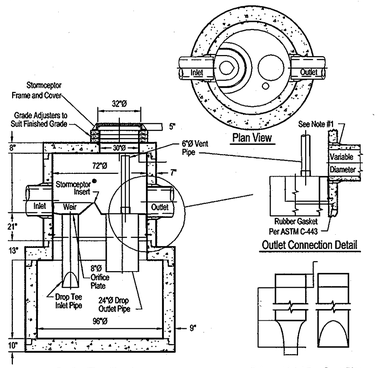
1" WHC PROFILE TO GARAGE

PROFILE SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'

Rinker MATERIALS

Hydro Conduit Division

STC 2400 Precast Concrete Stormceptor®
(2400 U.S. Gallon Capacity)



Notes:

1. The use of a Flexible Connection is recommended at The Inlet and Outlet Pipe.
2. The Cover should be positioned over The Outlet Drop Pipe and The Vent Pipe.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Hydro Conduit representative for further details not listed on this sheet.

Rinker 031

STORMCEPTOR STRUCTURES #73 AND 102

Precast Concrete Stormceptor®

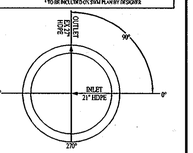
* TO BE INCLUDED ON SWM PLAN BY DESIGNER

CONTRACTOR INFORMATION

Name
Address
City
State
Zip Code
Contact
Phone
Fax

OWNER INFORMATION

Name HOWARD COUNTY GENERAL HOSPITAL
Phone 410-740-7500
Fax 410-740-xxxx



Please draw orientation of inlet and outlet pipes on diagram along with the pipe inside diameter (id), and invert elevation (IE). Clearly mark inlet pipes with an "I" and outlet pipes with an "O". Please provide the inlet/outlet pipe angle in degrees.

IMPERVIOUS DRAINAGE AREA FOR THIS UNIT 1.30 Ac.

Stormceptor® Model

STC			
450i	☐		
900	☐	3600	☐
1200	☐	4800	☐
1800	☐	6000	☐
2400	☒	7200	☐

Inlet Size: SINGLE INLET DISC ☒ | MULTIPLE INLET DISC ☐ | CUSTOM

Manhole Number	AS-BUILT	STC-73
Top Elevation (ft)	461.05	460.9
Inlet Pipe Invert (ft)	453.08	453.13
Outlet Pipe Invert (ft)	452.78	453.03
Pipe Type	✓	HDPE N-12
Inlet Pipe Inside Diameter (ID)	✓	21"
Inlet Pipe Outside Diameter (OD)	✓	24.5"±
Outlet Pipe Inside Diameter (ID)	✓	27"
Outlet Pipe Outside Diameter (OD)	✓	31.5"±

Project Name HOWARD COUNTY GENERAL HOSPITAL -- TOWER & GARAGE ADDITION
Approximate time frame of delivery (weeks)
Delivery Address: Street 5755 CEDAR LANE
City: COLUMBIA State: MARYLAND Zip Code 21044
Designer Company JOYCE ENGINEERING CORPORATION
Designer Contact MATTHEW E. JOYCE Phone 301-595-4353 Fax 301-595-4650

CSR HYDRO CONDUIT

PLEASE FILL OUT COMPLETELY AND FAX TO:
ATTN: DUANE THOMAS FAX: (301)698-5351, PHONE: (301)698-7373

NOTE: DIMENSIONAL SHOP DRAWINGS FOR THE STORMCEPTOR UNITS MUST BE REVIEWED AND APPROVED BY, THE ENGINEER AND MCDPS PRIOR TO FABRICATION.

Precast Concrete Stormceptor®

* TO BE INCLUDED ON SWM PLAN BY DESIGNER

CONTRACTOR INFORMATION

Name
Address
City
State
Zip Code
Contact
Phone
Fax

OWNER INFORMATION

Name CITY OF BOWIE-DEPT OF PUBLIC WORKS
Phone 301-809-2341
Fax 301-809-xxxx

Please draw orientation of inlet and outlet pipes on diagram along with the pipe inside diameter (id), and invert elevation (IE). Clearly mark inlet pipes with an "I" and outlet pipes with an "O". Please provide the inlet/outlet pipe angle in degrees.

IMPERVIOUS DRAINAGE AREA FOR THIS UNIT 1.30 Ac.

Stormceptor® Model

STC			
450i	☐		
900	☐	3600	☐
1200	☐	4800	☐
1800	☐	6000	☐
2400	☒	7200	☐

Inlet Size: SINGLE INLET DISC ☒ | MULTIPLE INLET DISC ☐ | CUSTOM

Manhole Number	AS-BUILT	STC 102
Top Elevation (ft)	456.52	456.4
Inlet Pipe Invert (ft)	446.87	446.99
Outlet Pipe Invert (ft)	446.67	446.89
Pipe Type	✓	HDPE N-12
Inlet Pipe Inside Diameter (ID)	✓	18"
Inlet Pipe Outside Diameter (OD)	✓	21.2"
Outlet Pipe Inside Diameter (ID)	✓	18"
Outlet Pipe Outside Diameter (OD)	✓	21.2"

Project Name HOWARD COUNTY GENERAL HOSPITAL -- TOWER & GARAGE ADDITION
Approximate time frame of delivery (weeks)
Delivery Address: Street 5755 CEDAR LANE
City: COLUMBIA State: MARYLAND Zip Code 21044
Designer Company JOYCE ENGINEERING CORPORATION
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PIPE SCHEDULE

INSPECTED BY	FROM	TO	SIZE	TYPE	LENGTH	AS-BUILT SIZE	AS-BUILT LENGTH
	69	70	18"	HDPE N-21	245		241.18'
	70	71	18"	HDPE N-21	97		97.37'
	71	72	18"	HDPE N-21	61		60.72'
	72	73	21"	HDPE N-21	59		57.07'
	73	EX I-3	EX 27"	EX HDPE N-21	—	24"	---
	D100	D101	10"	CAST IRON	66		68.96'
	D101	102	18"	HDPE N-21	53		53.59'
	102	103	18"	HDPE N-21	36		38.74'
	103	104	18"	HDPE N-21	120		120.63'
	104	105	18"	HDPE N-21	91		93.17'
	105	106	18"	HDPE N-21	91		97.29'
	106	S7	18"	EX RCP	—		
				TOTAL	919'		930.72'

PIPE SUMMARY

SIZE	TYPE	LENGTH	AS-BUILT SIZE	AS-BUILT LENGTH
18"	HIGH DENSITY POLYETHYLENE N-21	704		822.69'
21"	HIGH DENSITY POLYETHYLENE N-21	59		57.07'
10"	CAST IRON	66		68.96'
	TOTAL	919'		930.72'

STRUCTURE SCHEDULE

INSPECTED BY	NO.	TYPE	WIDTH DIAM.	TOP ELEV. UPPER	TOP ELEV. LOWER	INV. ELEV.	STANDARD DETAIL	AS-BUILT WIDTH DIAM.	AS-BUILT TOP ELEV. UPPER	AS-BUILT TOP ELEV. LOWER	AS-BUILT INV. ELEV.
	69	A-10 INLET	2'-5"	460.6	460.2	457.0	H.C. DPW STD DTL #SS.12 STD	✓	460.37		457.16
	70	MANHOLE	4'-0"	464.0	463.9	455.5	H.C. DPW STD DTL #SS.12 STD	✓	463.79		455.20
	71	MANHOLE	4'-0"	464.0	463.9	543.7	H.C. DPW STD DTL #SS.12 STD	✓	463.41		454.36
	72	MANHOLE	4'-0"	460.4	460.0	453.5	H.C. DPW STD DTL #SS.12 STD	✓	460.17		453.44
	73	STORMCEPTOR 2400	8'-0"	461.0	460.8	453.03	SEE DETAIL THIS SHEET	✓	461.05		453.08
	D100	FRENCH DRAIN	-	449.1	447.91	REFER TO MECHANICAL PLANS			449.09	447.86	
	D101	FRENCH DRAIN	-	453.3	447.12	REFER TO MECHANICAL PLANS			452.20	452.18	451.65
	102	STORMCEPTOR 2400	8'-0"	456.6	456.5	446.89	SEE DETAIL THIS SHEET	✓	456.52		446.87
	103	MANHOLE	4'-0"	458.2	458.1	446.70	H.C. DPW STD DTL #SS.12 STD	✓	458.40		446.63
	104	MANHOLE	4'-0"	464.8	464.7	446.30	H.C. DPW STD DTL #SS.12 STD	✓	464.58		446.41
	105	MANHOLE	4'-0"	467.0	466.9	445.64	H.C. DPW STD DTL #SS.12 STD	✓	466.97		445.79
	106	MANHOLE	4'-0"	467.4	467.3	444.98	H.C. DPW STD DTL #SS.12 STD	✓	467.33		445.30

ELECTRONIC FILE DISCLAIMER: THE INFORMATION CONTAINED HEREON WAS PREPARED AS AN ELECTRONIC "CAD" FILE BY JOYCE ENGINEERING CORPORATION (JEC). JEC HAS TAKEN REASONABLE STEPS TO ASSURE THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, HOWEVER, JEC CANNOT GUARANTEE THAT CHANGES AND/OR ALTERATIONS HAVE NOT BEEN MADE TO THE FILE. NO RELIANCE ON THE INFORMATION CONTAINED HEREON SHALL BE MADE UNLESS THE INFORMATION IS FIRST COMPARED TO THE SIGNED ORIGINAL DOCUMENT. JEC SHALL ASSUME NO LIABILITY OR RESPONSIBILITY, AND DOES NOT GRANT ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF ANY INFORMATION THAT HAS BEEN TRANSMITTED OR RECEIVED VIA COMPUTER OR OTHER ELECTRONIC MEANS. IF VERIFICATION OF THE INFORMATION CONTAINED HEREON, OR IF THE ELECTRONIC FILE USED TO CREATE THIS DOCUMENT IS REQUIRED, PLEASE CONTACT JEC DIRECTLY. THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM INCLUDING ELECTRONIC OR PHOTO REPRODUCTION WITHOUT THE EXPRESS WRITTEN PERMISSION OF JEC. BY ACCEPTANCE OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES ACCEPTANCE OF THE ABOVE TERMS AND CONDITIONS.

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48 Hours
Before You Dig Call
"MISS UTILITY"
Service Protection Center

MEMBER ONE CALL SYSTEMS INTERNATIONAL

CALL TOLL FREE
1-800-257-7777
www.missutility.net/ities

04.03.07
DATE

STATE OF MARYLAND MATTHEW E. JOYCE No. 22729 PROFESSIONAL ENGINEER

AS-BUILT DATE: 9-9-09
EXP. DATE: 07-15-10
PROFESSIONAL ENGINEER NO. 22729

ENGINEER'S AS-BUILT CERTIFICATION

'I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS STORMWATER MANAGEMENT FACILITY HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS & SPECIFICATIONS'

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 4/12/07
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 4/12/10
DIRECTOR — DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceeng.com

Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCGstSP08.dwg
Plotted: Apr 03, 2007 - 2:49pm

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – PARKING GARAGE

PERMIT INFORMATION CHART

SUBDIVISION		SECTION/AREA		LOT/PARCEL #
HCGH TOWN CENTER		8/2		4/276
PLAT# OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18628	5	POR/NT	35	5TH	6053.02
WATER CODE			SEWER CODE	
106			5522500	

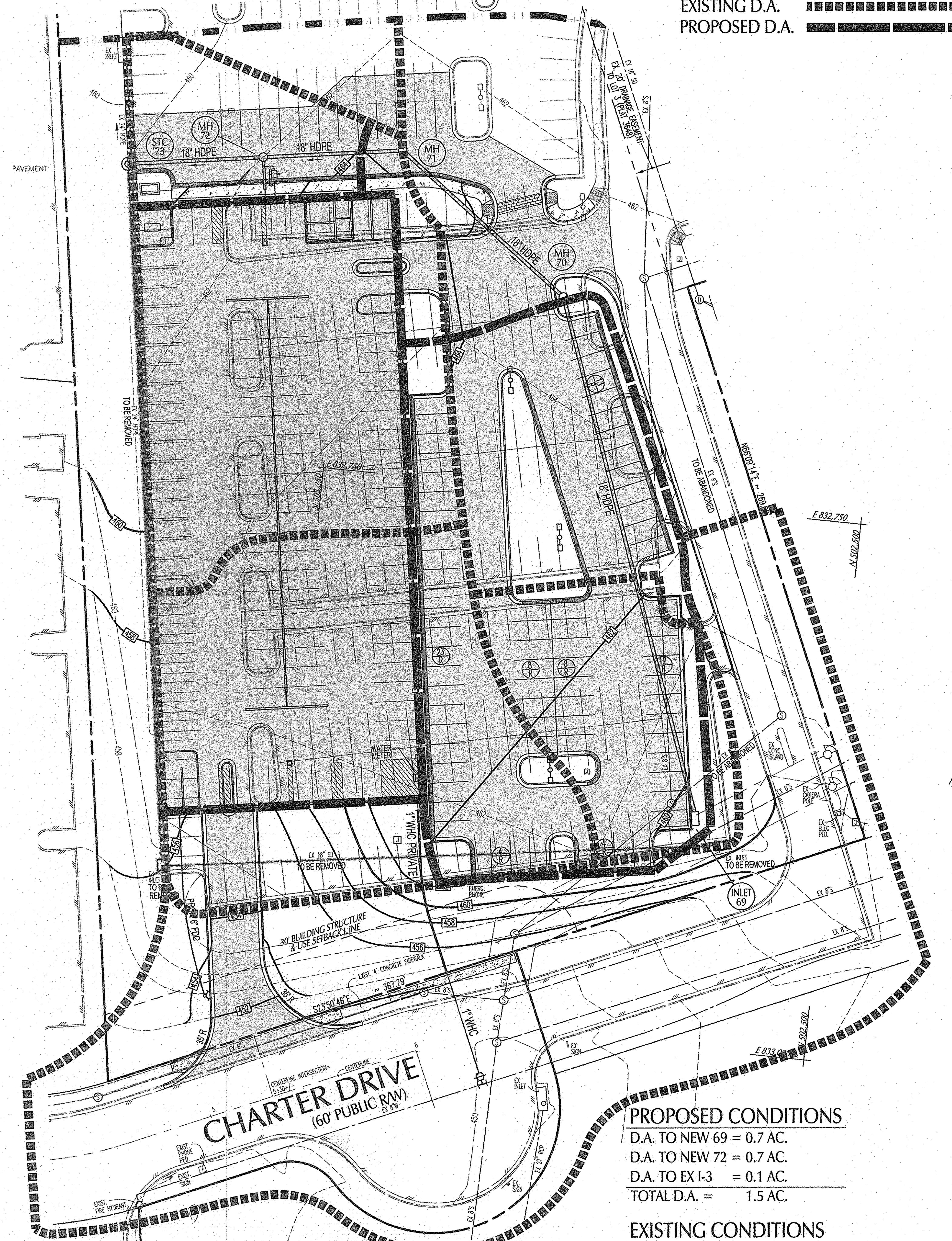
TITLE: STORM DRAIN & WATER CONNECTION PROFILES & NOTES FOR PARKING GARAGE ADDITION

DES BY WAJ	SCALE 1" = 50'	PROJ. NO. 99015T
DRN BY HAL	DATE OCT, 2006	8 OF 13
CHK BY JEC	APPROVED WAJ	

SDP-07-057

DRAINAGE AREA MAP LEGEND

EXISTING D.A. ▪▪▪▪▪▪▪▪▪▪
PROPOSED D.A. ▬ ▬ ▬ ▬



D.A IN CHARTER DRIVE

PROP D.A. TO EXISTING INLET = 1.2 AC.
EX. D.A. TO EXISTING INLET= 1.1 AC.
C=0.9 EXISTING

PROPOSED CONDITIONS

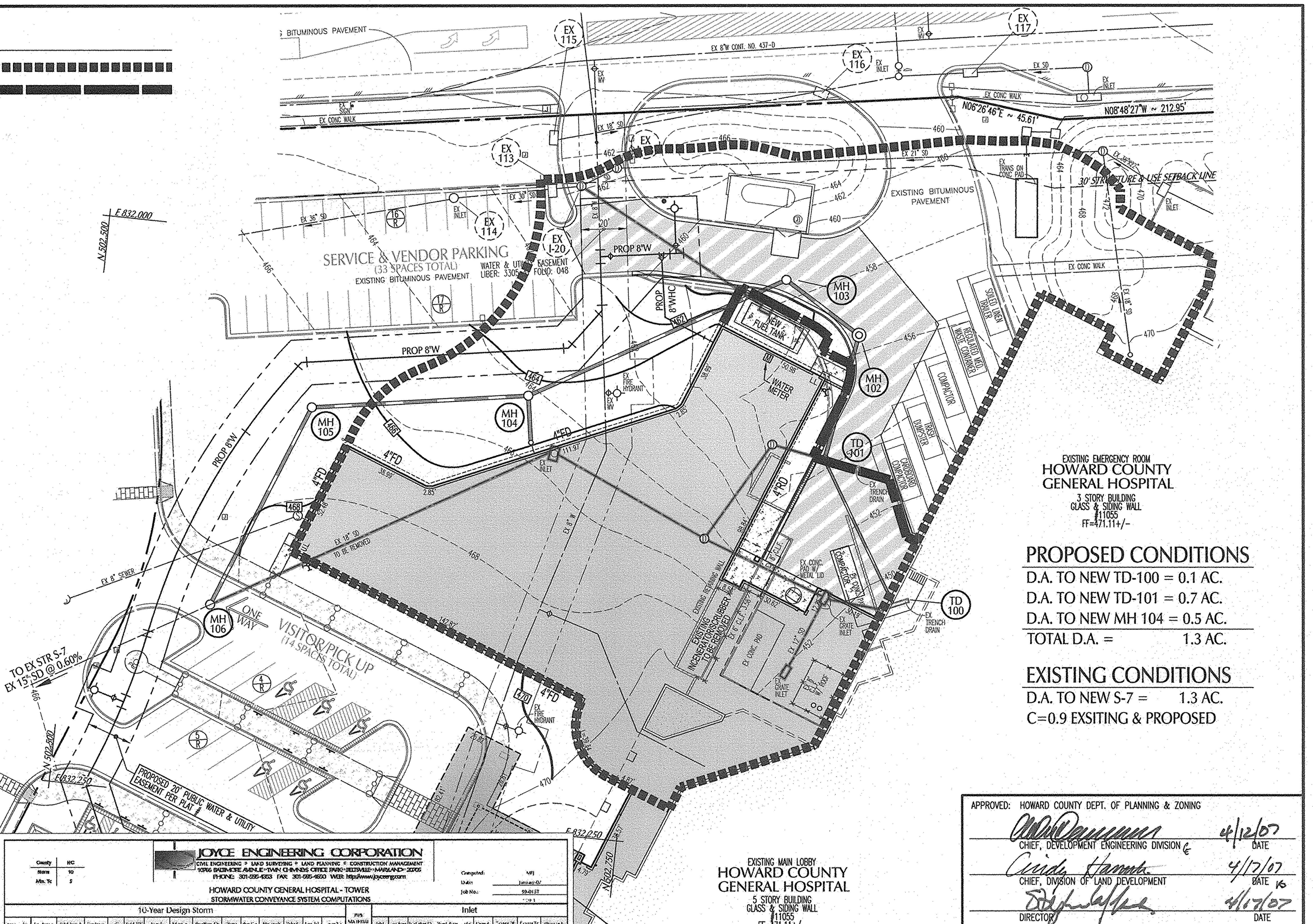
D.A. TO NEW 69 = 0.7 AC.
D.A. TO NEW 72 = 0.7 AC.
D.A. TO EX I-3 = 0.1 AC.
TOTAL D.A. = 1.5 AC.

EXISTING CONDITIONS

D.A. TO EX 1-5 = 0.2 AC.
D.A. TO EX 1-4 = 0.6 AC.
D.A. TO EX 1-3 = 0.7 AC.
TOTAL D.A. = 1.5 AC.
C=0.9 EXISTING

DRAINAGE AREA MAP FOR PARKING GARAGE

EXISTING D.A. TO I-3 = 1.5 AC.
PROPOSED D.A. TO I-3 = 1.5 AC.



EXISTING EMERGENCY ROOM
HOWARD COUNTY
GENERAL HOSPITAL
3 STORY BUILDING
GLASS & SIDING WALL
#11055
FF=471.11+/-

PROPOSED CONDITIONS

D.A. TO NEW TD-100 = 0.1 AC.
D.A. TO NEW TD-101 = 0.7 AC.
D.A. TO NEW MH 104 = 0.5 AC.
TOTAL D.A. = 1.3 AC.

EXISTING CONDITIONS

D.A. TO NEW S-7 = 1.3 AC.
C=0.9 EXSITING & PROPOSED

EXISTING MAIN LOBBY
HOWARD COUNTY
GENERAL HOSPITAL
5 STORY BUILDING
GLASS & SIDING WALL
#11055
FF=471.11+/-

PROPOSED
ENTRANCE CANOPY
3,350 S.F.

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING • LAND SURVEYING • LAND PLANNING • CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE • TWIN CHIMNEYS OFFICE PARK • BELTSVILLE • MARYLAND • 20705
PHONE: 301-595-4353 FAX: 301-595-4650 WEB: http://www.joyceeng.com

HOWARD COUNTY GENERAL HOSPITAL - TOWER
STORMWATER CONVEYANCE SYSTEM COMPUTATIONS

County: HC | Storm: 10 | Min. Tc: 5
Computed: MFJ | Date: January-07 | Job No.: 99-015T

From No.	To No.	Inc. Area A (acres)	Total Area A (acres)	Coefficient C	AC	Total A*C	Time Tc (min)	Intensity (in/hr)	Pipe Flow Q (cfs)	Slope %	Pipe Dia (in)	Manning n	Velocity (fps)	Length (ft)	Time (min)	PIPE MATERIAL	Inlet No.	Inc Area (acres)	Total Flow Q (cfs)	Street Slope %	Inlet Type	Capacity (cfs)	Bypass Q	Bypass To No.	Efficiency %
69	70	0.70	0.70	0.90	0.63	0.63	5.0	[illegible]	5.4	0.22	18	0.012	[illegible]	[illegible]	[illegible]	HDPE	69	0.7	5.4				5.4		0%
70	71		0.70		0.00	0.63	6.3	8.0	5.4	0.22	18	0.012	3.0	97	0.53	HDPE									
71	72		0.70		0.00	0.63	6.9	7.8	5.4	0.22	18	0.012	3.0	81	0.44	HDPE									
72	73	0.70	1.40	0.90	0.63	1.26	7.2	7.6	9.6	0.31	21	0.012	4.0	59	0.25	HDPE	72	0.7	4.8				4.8		0%
73	I-3		1.40		0.00	1.26	7.5	7.6	9.6	[illegible]	21	0.012	[illegible]	[illegible]	[illegible]	HDPE									
100	101	0.10	0.10	0.90	0.09	0.09	5.0	[illegible]	0.8	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100	0.1	0.8				0.8		0%
101	102	0.70	0.80	0.90	0.63	0.72	[illegible]	8.0	5.8	[illegible]	18	0.012	3.4	54	0.27	HDPE	101	0.7	5.0				5.0		0%
102	103		0.80		0.00	0.72	6.1	8.0	5.8	[illegible]	18	0.012	[illegible]	[illegible]	[illegible]	HDPE									
103	104		0.80		0.00	0.72	6.2	8.0	5.8	0.35	18	0.012	3.3	120	0.61	HDPE									
104	105	0.50	1.30	0.90	0.45	1.17	[illegible]	7.6	8.9	0.61	18	0.012	5.0	[illegible]	0.30	HDPE	104	0.5	3.4				3.4		0%
105	106		1.30		0.00	1.17	7.2	7.6	8.9	0.61	18	0.012	5.0	81	0.30	HDPE									
106	S-7		1.30		0.00	1.17	[illegible]	7.6	8.9	0.61	18	0.012	5.0	[illegible]	[illegible]	HDPE									
EX	[illegible]	1.70	1.70	0.90	[illegible]	[illegible]	5.0	[illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.7	[illegible]				[illegible]		0%

DRAINAGE AREA MAP FOR TOWER AND CANOPY

EXISTING D.A. TO S-7 = 1.3 AC.
PROPOSED D.A. TO S-7 = 1.3 AC.

SHEET INDEX

1 OF 13	COVER SHEET FOR SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER AND CANOPY
2 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER, AND CANOPY
3 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL PARKING GARAGE
4 OF 13	LANDSCAPE & LIGHTING PLAN FOR PARKING GARAGE
5 OF 13	SITE DEVELOPMENT, GRADING AND LANDSCAPE DETAILS
6 OF 13	STORM DRAIN PLAN FOR HOSPITAL TOWER, AND CANOPY
7 OF 13	STORM DRAIN PLAN & WATER CONNECTION FOR PARKING GARAGE
8 OF 13	STORM DRAIN PROFILES, SCHEDULES, AND WATER CONNECTION PROFILE
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11 OF 13	GRADING, SEDIMENT & EROSION CONTROL PLAN FOR PARKING GARAGE
12 OF 13	SEDIMENT & EROSION CONTROL NOTES & DETAILS FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)

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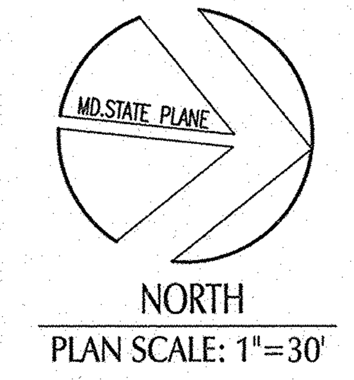

NORTH
PLAN SCALE: 1"=30'

04.03.07
DATE

STATE OF MARYLAND MATTHEW E. JOYCE No. 27729 PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER. NO. 27729

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 4/12/07
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 4/17/07
DIRECTOR	DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceeng.com

Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCsetSP09.dwg
Plotted: Apr 03, 2007 - 4:16pm

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - PARKING GARAGE

PERMIT INFORMATION CHART

SUBDIVISION		SECTION/AREA		LOT/PARCEL #
HCGH TOWN CENTER		8/2		4/276
PLAT# OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18628 (19000)	5	POR/NT	35	5TH	6053.02
WATER CODE		SEWER CODE		
106		5522500		

TITLE
DRAINAGE AREA MAP
FOR HOSPITAL TOWER , CANOPY, AND
PARKING GARAGE ADDITION

DES BY WAJ	SCALE 1" = 30'	PROJ. NO. 89015L
DRN BY HAL	DATE OCT, 2006	9 OF 13
CHK BY JEC	APPROVED WAJ	

SDP 07-057

SHEET INDEX	
1 OF 13	COVER SHEET FOR SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER AND CANOPY
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13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)

NOTES:

STORMWATER MANAGEMENT (QUANTITY & QUALITY) IS PROVIDED BY AN ON-SITE STORM WATER MANAGEMENT POND DESIGN, APPROVED AND CONSTRUCTED PER SDP-95-114. THE FACILITY IS OWNED AND OPERATED BY THE HOWARD COUNTY GENERAL HOSPITAL. THE ORIGINAL APPROVED FACILITY WAS DESIGNED FOR A TOTAL IMPERVIOUS AREA OF 611,029 SQUARE FEET. THE CURRENT PLAN REFLECTS A TOTAL NET DECREASE OF IMPERVIOUS AREA OF 42,806 SQUARE FEET OR 0.98 ACRES.

FOR SITE DEVELOPMENT LEGEND, REFER TO SHEET 3 OF 12.

EXISTING LANDSCAPING AND PARKING LOT LIGHTING ARE PER PRIOR SDP-95-114 & SDP-00-072

CEDAR LANE
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EXISTING BITUMINOUS PAVEMENT

N/F
COLUMBIA
TOWN CENTER
LOTS B-1 THRU B-24
A RESUBDIVISION OF PARCEL B
SECTION 8 AREA 4
PLAT No. 4883
ZONE: NT

PROVIDE TEMP STABILIZED CONSTRUCTION ENTRANCE

PROVIDE TEMP SUPER SILT FENCE

CONNECT NEW CURB & GUTTER TO EXISTING IN LINE AND GRADE.

LIMIT OF DISTURBANCE

PROVIDE TEMP INLET PROTECTION (C.I.P.) D.A.=0.25AC. (PER INSPECTOR)

PROVIDE TEMP INLET PROTECTION (A.G.I.P.) D.A.=0.38AC

PROVIDE TEMP SUPER SILT FENCE

PROVIDE TEMP INLET PROTECTION (A.G.I.P.) D.A.=0.38AC.

PROVIDE TEMP INLET PROTECTION (C.I.P.) D.A.=0.60 AC.

PROVIDE TEMP INLET PROTECTION (C.I.P.) D.A.=0.45AC. (PER INSPECTOR)

PROVIDE TEMP INLET PROTECTION (A.G.I.P.)D.A.=0.20 AC.

PROPOSED 4 STORY TOWER ADDITION W/BSMT
F.F.=471.11
BSMT=453.11
40 OF BEDS
GFA=114,261 S.F.
MAX. BLDG HEIGHT= 79.5'
FOOTPRINT=24,124 S.F.

SUPERVISED SPRINKLER SYSTEM

PROPOSED 1 STORY LOADING DOCK ADDITION
SLAB=453.11

PROPOSED ENTRANCE CANOPY
3,350 S.F.

EXISTING HOWARD COUNTY GENERAL HOSPITAL
5 STORY BUILDING
GLASS & SIDING WALL
#1055
FF=471.11+/-

EXISTING AMBULATORY SURGICAL CENTER

EXISTING 40' ROADWAY/ACCESS EASEMENT.

EX. 20' DRAINAGE EASEMENT TO LOT 3 (PLAT 3648)

WATER & UTILITY EASEMENT LIBER: 3305 AT FOLIO: 048

WATER LINE & UTILITY EASEMENT LIBER: 2155 AT FOLIO: 141

WATER LINE & UTILITY EASEMENT LIBER: 2155 AT FOLIO: 151

PROPOSED RETAINING WALL, REFER TO ARCHITECTURAL PLANS FOR DETAILS.

PROPOSED FIRE DEPARTMENT CONNECTION (1) & TEST CONNECT LOCATION (1) SEE MECH PLANS FOR DETAILS.

PROPOSED CARDBOARD COMPACTOR, REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS.

PROPOSED CONCRETE LOADING DOCK, REFER TO ARCHITECTURAL PLANS FOR DETAILS.

FOR SEQUENCE OF CONSTRUCTION, REFER TO SHEET 11 OF 13

MATCHLINE - SEE SHEET 11 OF 13

NORTH
PLAN SCALE: 1"=30'

MD STATE PLANE

04.03.07
DATE

PROFESSIONAL ENGINEER. NO. 22729

Reviewed for Howard SCD and meets Technical Requirements

USDA - Natural Resources Conservation Service — Date

This development plan is approved for the soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT

Howard SCD — Date

ENGINEERS' CERTIFICATION

"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer (print name below signature): MATTHEW E. JOYCE — Date: 03 APRIL 2007

DEVELOPER'S CERTIFICATION

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at the Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer (print name below signature): BETH PLAVNER — Date: 4-3-07

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 4/12/07

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 4/17/07

DIRECTOR — DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION
6/11/09	1	ADDED FENCE ALONG SOUTH PROP. LINE

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

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Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCsitSP10.dwg
Plotted: Apr 03, 2007 - 2:53pm

ADDRESS CHART	
LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – PARKING GARAGE

PERMIT INFORMATION CHART

SUBDIVISION			SECTION/AREA		LOT/PARCEL #
HCGH TOWN CENTER			8/2		4/276
PLAT OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18629	5	POR/NT	35	5TH	6053.02
WATER CODE			SEWER CODE		
106			5522500		

TITLE

GRADING, SEDIMENT & EROSION CONTROL PLAN FOR HOSPITAL TOWER , AND CANOPY

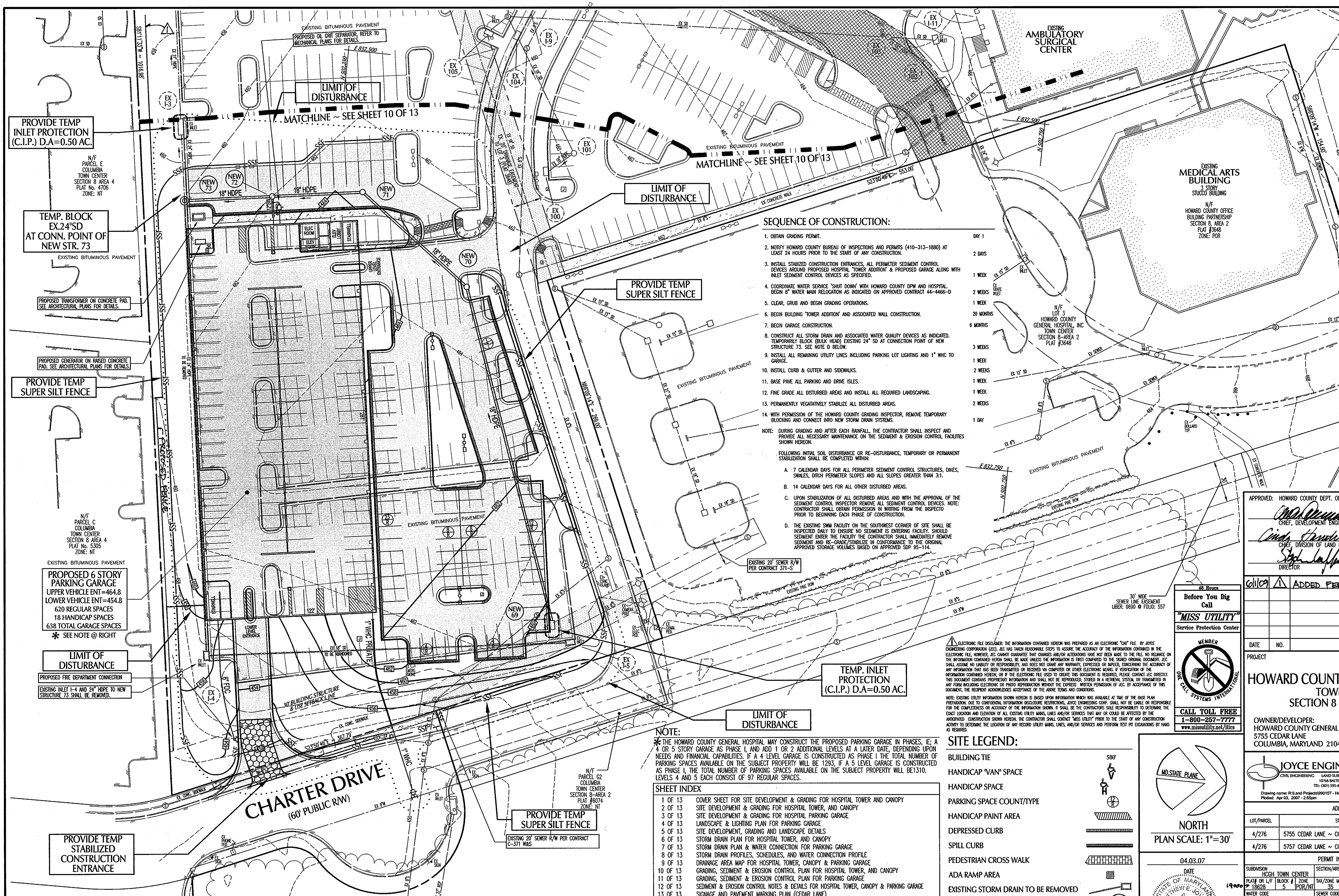
DES BY WAJ	SCALE 1" = 30'	PROJ. NO. 99015T
DRN BY HAL	DATE OCT, 2006	10 OF 13
CHK BY JEC	APPROVED WAJ	

STATE OF MARYLAND — MATTHEW E. JOYCE — No. 22729 — PROFESSIONAL ENGINEER

DATE 6/11/09

PROP. REVISION 1 ONLY

SDP-07-057



SEQUENCE OF CONSTRUCTION:

1. OBTAIN GRADING PERMIT.	DAY 1
2. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1880) AT LEAST 24 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.	2 DAYS
3. INSTALL STABIZED CONSTRUCTION ENTRANCES, ALL PERIMETER SEDIMENT CONTROL DEVICES AROUND PROPOSED HOSPITAL 'TOWER ADDITION' & PROPOSED GARAGE ALONG WITH INLET SEDIMENT CONTROL DEVICES AS SPECIFIED.	1 WEEK
4. COORDINATE WATER SERVICE 'SHUT DOWN' WITH HOWARD COUNTY DPW AND HOSPITAL. BEGIN 8" WATER MAIN RELOCATION AS INDICATED ON APPROVED CONTRACT 44-4466-D	2 WEEKS
5. CLEAR, GRUB AND BEGIN GRADING OPERATIONS.	1 WEEK
6. BEGIN BUILDING 'TOWER ADDITION' AND ASSOCIATED WALL CONSTRUCTION.	20 MONTHS
7. BEGIN GARAGE CONSTRUCTION.	6 MONTHS
8. CONSTRUCT ALL STORM DRAIN AND ASSOCIATED WATER QUALITY DEVICES AS INDICATED. TEMPORARILY BLOCK (BULK HEAD) EXISTING 24" SD AT CONNECTION POINT OF NEW STRUCTURE 73. SEE NOTE D BELOW.	3 WEEKS
9. INSTALL ALL REMAINING UTILITY LINES INCLUDING PARKING LOT LIGHTING AND 1" WHC TO GARAGE.	1 WEEK
10. INSTALL CURB & GUTTER AND SIDEWALKS.	2 WEEKS
11. BASE PAVE ALL PARKING AND DRIVE ISLES.	1 WEEK
12. FINE GRADE ALL DISTURBED AREAS AND INSTALL ALL REQUIRED LANDSCAPING.	1 WEEK
13. PERMANENTLY VEGATATIVELY STABILIZE ALL DISTURBED AREAS.	2 WEEKS
14. WITH PERMISSION OF THE HOWARD COUNTY GRADING INSPECTOR, REMOVE TEMPORARY BLOCKING AND CONNECT INTO NEW STORM DRAIN SYSTEMS.	1 DAY

NOTE: DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE ALL NECESSARY MAINTENANCE ON THE SEDIMENT & EROSION CONTROL FACILITIES SHOWN HEREON.

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN:

A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.

B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.

C. UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL DEVICES. NOTE: CONTRACTOR SHALL OBTAIN PERMISSION IN WRITING FROM THE INSPECTO PRIOR TO BEGINNING EACH PHASE OF CONSTRUCTION.

D. THE EXISTING SWM FACILITY ON THE SOUTHWEST CORNER OF SITE SHALL BE INSPECTED DAILY TO ENSURE NO SEDIMENT IS ENTERING FACILITY. SHOULD SEDIMENT ENTER THE FACILITY THE CONTRACTOR SHALL IMMEDIATELY REMOVE SEDIMENT AND RE-GRADE/STABILIZE IN CONFORMANCE TO THE ORIGINAL APPROVED STORAGE VOLUMES BASED ON APPROVED SDP 95-114.

NOTE:

* THE HOWARD COUNTY GENERAL HOSPITAL MAY CONSTRUCT THE PROPOSED PARKING GARAGE IN PHASES, IE; A 4 OR 5 STORY GARAGE AS PHASE I, AND ADD 1 OR 2 ADDITIONAL LEVELS AT A LATER DATE, DEPENDING UPON NEEDS AND FINANCIAL CAPABILITIES. IF A 4 LEVEL GARAGE IS CONSTRUCTED AS PHASE I THE TOTAL NUMBER OF PARKING SPACES AVAILABLE ON THE SUBJECT PROPERTY WILL BE 1293, IF A 5 LEVEL GARAGE IS CONSTRUCTED AS PHASE I, THE TOTAL NUMBER OF PARKING SPACES AVAILABLE ON THE SUBJECT PROPERTY WILL BE1310. LEVELS 4 AND 5 EACH CONSIST OF 97 REGULAR SPACES.

SHEET INDEX

1 OF 13	COVER SHEET FOR SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER AND CANOPY
2 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER, AND CANOPY
3 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL PARKING GARAGE
4 OF 13	LANDSCAPE & LIGHTING PLAN FOR PARKING GARAGE
5 OF 13	SITE DEVELOPMENT, GRADING AND LANDSCAPE DETAILS
6 OF 13	STORM DRAIN PLAN FOR HOSPITAL TOWER, AND CANOPY
7 OF 13	STORM DRAIN PLAN & WATER CONNECTION FOR PARKING GARAGE
8 OF 13	STORM DRAIN PROFILES, SCHEDULES, AND WATER CONNECTION PROFILE
9 OF 13	DRAINAGE AREA MAP FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
10 OF 13	GRADING, SEDIMENT & EROSION CONTROL PLAN FOR HOSPITAL TOWER, AND CANOPY
11 OF 13	GRADING, SEDIMENT & EROSION CONTROL PLAN FOR PARKING GARAGE
12 OF 13	SEDIMENT & EROSION CONTROL NOTES & DETAILS FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)

NOTE:

STORMWATER MANAGEMENT (QUANTITY & QUALITY) IS PROVIDED BY AN ON-SITE STORM WATER MANAGEMENT POND DESIGN, APPROVED AND CONSTRUCTED PER SDP-95-114. THE FACILITY IS OWNED AND OPERATED BY THE HOWARD COUNTY GENERAL HOSPITAL. THE ORIGINAL APPROVED FACILITY WAS DESIGNED FOR A TOTAL IMPERVIOUS AREA OF 611,029 SQUARE FEET. THE CURRENT PLAN REFLECTS A TOTAL NET DECREASE OF IMPERVIOUS AREA OF 42,806 SQUARE FEET OR 0.98 ACRES.

EXISTING LANDSCAPING AND PARKING LOT LIGHTING ARE PER PRIOR SDP-95-114 & SDP-00-072

Reviewed for Howard SCD and meets Technical Requirements
USDA - Natural Resources Conservation Service — Date 4/10/07

This development plan is approved for the soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT
Howard SCD — Date 4/10/07

ENGINEERS' CERTIFICATION

"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer (print name below signature): MATTHEW E. JOYCE — Date 03 APRIL 2007

DEVELOPER'S CERTIFICATION

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at the Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer (print name below signature): BETH PLAVNER — Date 4-3-07

ELECTRONIC FILE DISCLAIMER: THE INFORMATION CONTAINED HEREON WAS PREPARED AS AN ELECTRONIC "CAD" FILE BY JOYCE ENGINEERING CORPORATION (JEC). JEC HAS TAKEN REASONABLE STEPS TO ASSURE THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, HOWEVER, JEC CANNOT GUARANTEE THAT CHANGES AND/OR ALTERATIONS HAVE NOT BEEN MADE TO THE FILE. NO RELIANCE ON THE INFORMATION CONTAINED HERON SHALL BE MADE UNLESS THE INFORMATION IS FIRST COMPARED TO THE SIGNED ORIGINAL DOCUMENT. JEC SHALL ASSUME NO LIABILITY OR RESPONSIBILITY, AND DOES NOT GRANT ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF ANY INFORMATION THAT HAS BEEN TRANSMITTED OR RECEIVED VIA COMPUTER OR OTHER ELECTRONIC MEANS. IF VERIFICATION OF THE INFORMATION CONTAINED HEREON, OR IF THE ELECTRONIC FILE USED TO CREATE THIS DOCUMENT IS REQUIRED, PLEASE CONTACT JEC DIRECTLY. THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM INCLUDING ELECTRONIC OR PHOTO REPRODUCTION WITHOUT THE EXPRESS WRITTEN PERMISSION OF JEC. BY ACCEPTANCE OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES ACCEPTANCE OF THE ABOVE TERMS AND CONDITIONS.

NOTE: EXISTING UTILITY INFORMATION SHOWN HEREON IS BASED UPON INFORMATION WHICH WAS AVAILABLE AT TIME OF THE BASE PLAN PREPARATION. DUE TO CONFIDENTIAL INFORMATION DISCLOSURE RESTRICTIONS, JOYCE ENGINEERING CORP. SHALL NOT BE LIABLE OR RESPONSIBLE FOR THE COMPLETENESS OR ACCURACY OF THE INFORMATION SHOWN. IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITY MAINS, LINES AND/OR SERVICES THAT MAY OR COULD BE AFFECTED BY THE ANTICIPATED CONSTRUCTION SHOWN HEREON. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY TO DETERMINE THE LOCATION OF ANY RECORD UTILITY MAINS, LINES, AND/OR SERVICES AND PERFORM TEST PIT EXCAVATIONS BY HAND AS REQUIRED.

48 Hours Before You Dig Call "MISS UTILITY" Service Protection Center
MEMBER ONE CALL SYSTEMS INTERNATIONAL
CALL TOLL FREE 1-800-257-7777
www.missutility.net/itics

SITE LEGEND:

- BUILDING TIE
- HANDICAP "VAN" SPACE
- HANDICAP SPACE
- PARKING SPACE COUNT/TYPE
- HANDICAP PAINT AREA
- DEPRESSED CURB
- SPILL CURB
- PEDESTRIAN CROSS WALK
- ADA RAMP AREA
- EXISTING STORM DRAIN TO BE REMOVED
- EXISTING LANDSCAPE TREE
- PROPOSED LANDSCAPE TREE
- RELOCATED TREE
- NEW PARKING LOT LIGHT
- EXISTING ELECTRIC JUNCTION BOX

MD.STATE PLANE
NORTH
PLAN SCALE: 1"=30'

04.03.07
DATE
STATE OF MARYLAND MATTHEW E. JOYCE No. 27729 PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER. NO. 22729

DATE 6/1/09
STATE OF MARYLAND STEPHEN HOPKINS HAYS LANDSCAPE ARCHITECT
FOR REVISION 1 ONLY

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 4/12/07
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 4/17/07
DIRECTOR	DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION
6/1/09	1	ADDED FENCE ALONG SOUTH PROP. LINE

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceeng.com
Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCsetSP11.dwg
Plotted: Apr 03, 2007 - 2:55pm

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - PARKING GARAGE

PERMIT INFORMATION CHART

SUBDIVISION			SECTION/AREA		LOT/PARCEL #
HCGH TOWN CENTER			8/2		4/276
PLAT# OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTRICT	CENSUS TRACT
18628 (19000)	5	POR/NT	35	5TH	6053.02
WATER CODE			SEWER CODE		
106			5522500		

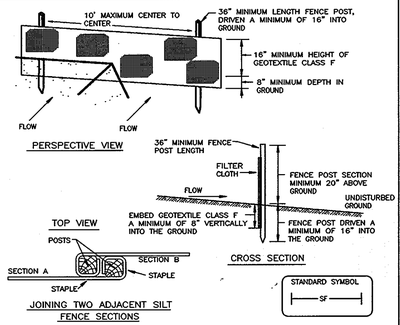
TITLE

GRADING, SEDIMENT & EROSION CONTROL PLAN FOR PARKING GARAGE ADDITION

DES BY WAJ	SCALE 1" = 30'	PROJ. NO. 89015L
DRN BY HAL	DATE OCT, 2006	11 OF 13
CHK BY JEC	APPROVED WAJ	

SDP-07-057

DETAIL 22 – SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.

2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

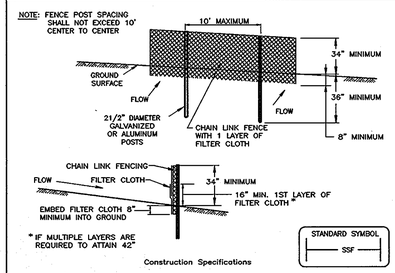
Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft² / minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E – 15 – 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 33 – SUPER SILT FENCE



Construction Specifications

1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 8" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.

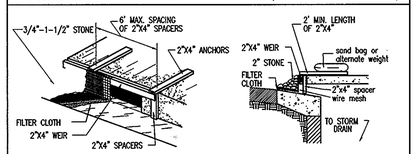
6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft²/minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H – 26 – 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 23C – CURB INLET PROTECTION (COG OR COS INLETS)



MAX DRAINAGE AREA = 1/4 ACRES

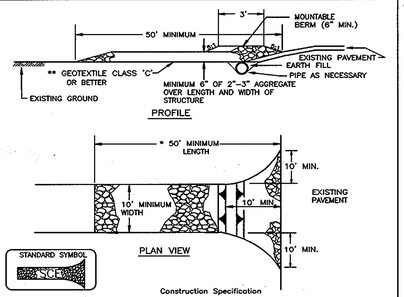
STANDARD SYMBOL
CIP

CONSTRUCTION SPECIFICATIONS

1. ATTACH A CONTINUOUS PIECE OF WIRE MESH (30" MIN. WIDTH BY THROAT LENGTH PLUS 4') TO THE 2"X4" WEIR (MEASURING THROAT LENGTH PLUS 2') AS SHOWN ON STANDARD DRAWING.
2. PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2"X4" WEIR.
3. SECURELY NAIL THE 2"X4" WEIR TO A 9' LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WEIR AND INLET FACE (MAX. 4' APART).
4. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2' LENGTHS OF 2"X4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS). THESE 2"X4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
5. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1' BEYOND BOTH ENDS OF THE THROAT OPENING.
6. FORM THE 1/2"X1/2" WIRE MESH AND GEOTEXTILE FABRIC TO THE CONCRETE GUTTER AND AGAINST THE FACE OF CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4"X1-1/2" STONE OVER THE WIRE MESH AND GEOTEXTILE SO SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOW DOES NOT BYPASS INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT FLOW TO THE INLET.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E – 18 – 5B	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 24 – STABILIZED CONSTRUCTION ENTRANCE



Construction Specification

1. Length – minimum of 50' (*30' for single residence lot).

2. Width – 10' minimum, should be flared at the existing road to provide a turning radius.

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.

4. Stone – crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.

5. Surface Water – all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. Location – A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE F – 17 – 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).

2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.

3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.

4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.

6.All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis:

Total Area of Site:	19.536 Acres
Area Disturbed:	4.180 Acres
Area to be roofed or paved:	2.250 Acres
Area to be vegetatively stabilized:	1.700 Acres
Total Cut: 13,860 Cu. Yds.	
Total Fill: 1,000 Cu. Yds.	
Offsite waste/borrow area location: Laurel Sand and Gravel, Vann Dusen Road. Note: Must have approved and active Sediment & Erosion Control Grading Plan/Permit	

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.

10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each work day, whichever is shorter.

Rev. 9/99

HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules :

1. Preferred -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs/acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.)

2. Acceptable -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs/acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil.

Seeding -- For the periods March 1 -- April 30, and August 1 -- October 15, seed with 60 lbs/acre (1.4 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 -- July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs/acre (. 05 lbs/100() sq. ft.) of weeping lovegrass. During the period of October 16 -- February 28, protect site by:
Option 1 -- Two tons per acre of well anchored straw mulch and seed as soon as possible in the spring.
Option 2 --Use sod.
Option 3 ---- Seer: with 60 lbs/acre Kentucky 30 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seed ing. Anc hor mulch immed iately after app licatio n us ing mulc h anchoring too l or 218 gallo ns per acre (5 gal/1000 sq. ft.) of emuls ified asphalt on flat areas. On slope 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

Maintenance -- Inspect all seeding areas and make needed repairs, replacements and reseed ings.

TEMPORARY SEEDING NOTES.
Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

Seedbed preparation: -- Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments : -- Apply 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.).

Seeding: -- For periods March 1 -- April 30 and from August 15 -- October 15, seed with 2-1/2 bushel per acre of annual rye (3. 2 lbs/1000 sq. ft.). For the period May 1 -- August 14, seed with 3 lbs/acre of weeping lovegrass (.07 lbs/1000 sq. ft.). For the period November 16 -- February 28, protect site by applying 2 tons/acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: --Apply l-1/2 to 2 to ns/acre (70 to 90 lbs/1000 sq. ft.) of unrotted weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring too l or 218 gal. per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 ft. or higher, use 348 gal. per acre (8 gal/1000 sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

SILT FENCE

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E – 15 – 3A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

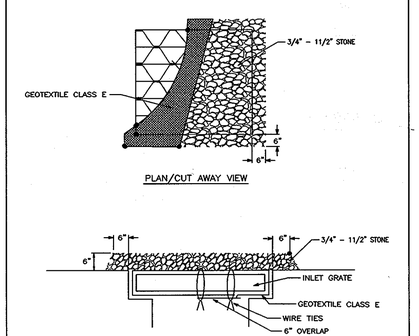
SUPER SILT FENCE

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 – 10%	0 – 10:1	Unlimited	Unlimited
10 – 20%	10:1 – 5:1	200 feet	1,500 feet
20 – 33%	5:1 – 3:1	100 feet	1,000 feet
33 – 50%	3:1 – 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H – 26 – 3A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 23B – AT GRADE INLET PROTECTION

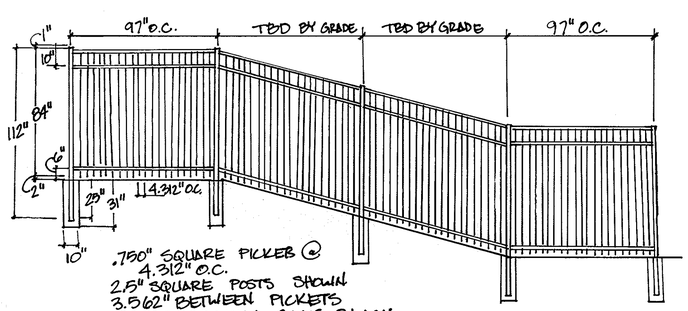


Construction Specifications

1. Lift grate and wrap with Geotextile Class E to completely cover all openings, then set grate back in place.

2. Place 3/4" to 11/2" stone, 4"-6" thick on the grate to secure the fabric and provide additional filtration.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E – 18 – 5A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



FENCE DETAIL

LONG FENCE

APPROVED BY ARCHITECTURAL REVIEW COMMITTEE 3/10/09

LONG FENCE CONTACT: BRUCE WAKSMUNSKI

SCALE 1/4" = 1'

DATE 2/25/09

1

Reviewed for Howard SCD and meets Technical Requirements

USDA - Natural Resources Conservation Service — Date 4/10/07

This development plan is approved with the soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT

Howard SCD — Date 4/10/07

ENGINEERS' CERTIFICATION

"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer (print name below signature) — Date 03APRIL.2007

MATTHEW E. JOYCE

DEVELOPER'S CERTIFICATION

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at the Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer (print name below signature) — Date 4-3-07

BETH PLAYNER

SHEET INDEX

1 OF 13	COVER SHEET FOR SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER AND CANOPY
2 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL TOWER, AND CANOPY
3 OF 13	SITE DEVELOPMENT & GRADING FOR HOSPITAL PARKING GARAGE
4 OF 13	LANDSCAPE & LIGHTING PLAN FOR PARKING GARAGE
5 OF 13	SITE DEVELOPMENT, GRADING AND LANDSCAPE DETAILS
6 OF 13	STORM DRAIN PLAN FOR HOSPITAL TOWER, AND CANOPY
7 OF 13	STORM DRAIN PLAN & WATER CONNECTION FOR PARKING GARAGE
8 OF 13	STORM DRAIN PROFILES, SCHEDULES, AND WATER CONNECTION PROFILE
9 OF 13	DRAINAGE AREA MAP FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
10 OF 13	GRADING, SEDIMENT & EROSION CONTROL PLAN FOR HOSPITAL TOWER, AND CANOPY
11 OF 13	GRADING, SEDIMENT & EROSION CONTROL PLAN FOR PARKING GARAGE
12 OF 13	SEDIMENT & EROSION CONTROL NOTES & DETAILS FOR HOSPITAL TOWER, CANOPY & PARKING GARAGE
13 OF 13	SIGNAGE AND PAVEMENT MARKING PLAN (CEDAR LANE)

04.03.07
DATE

STATE OF MARYLAND MATTHEW E. JOYCE No. 22729 PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER. NO. 22729

DATE 6/1/09

STATE OF MARYLAND LANDSCAPE ARCHITECT

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 4/12/07

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 4/27/07

DIRECTOR — DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION
6/1/09	1	ADDED FENCE DETAIL

PROJECT

HOWARD COUNTY GENERAL HOSPITAL
TOWN CENTER
SECTION 8 - AREA 2 - LOT 4

OWNER/DEVELOPER:
HOWARD COUNTY GENERAL HOSPITAL, INC.
5755 CEDAR LANE
COLUMBIA, MARYLAND 21044

JOYCE ENGINEERING CORPORATION
CIVIL ENGINEERING LAND SURVEYING LAND PLANNING CONSTRUCTION MANAGEMENT
10766 BALTIMORE AVENUE - BELTSVILLE, MARYLAND 20705
TEL: (301) 595-4353 FAX: (301) 595-4650 WEB: www.joyceeng.com

Drawing name: R:\Land Projects\99015T - Howard County General Tower\dwg\99015THCcstSP12.dwg
Plotted: Apr 03, 2007 - 2:55pm

ADDRESS CHART

LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 – PARKING GARAGE

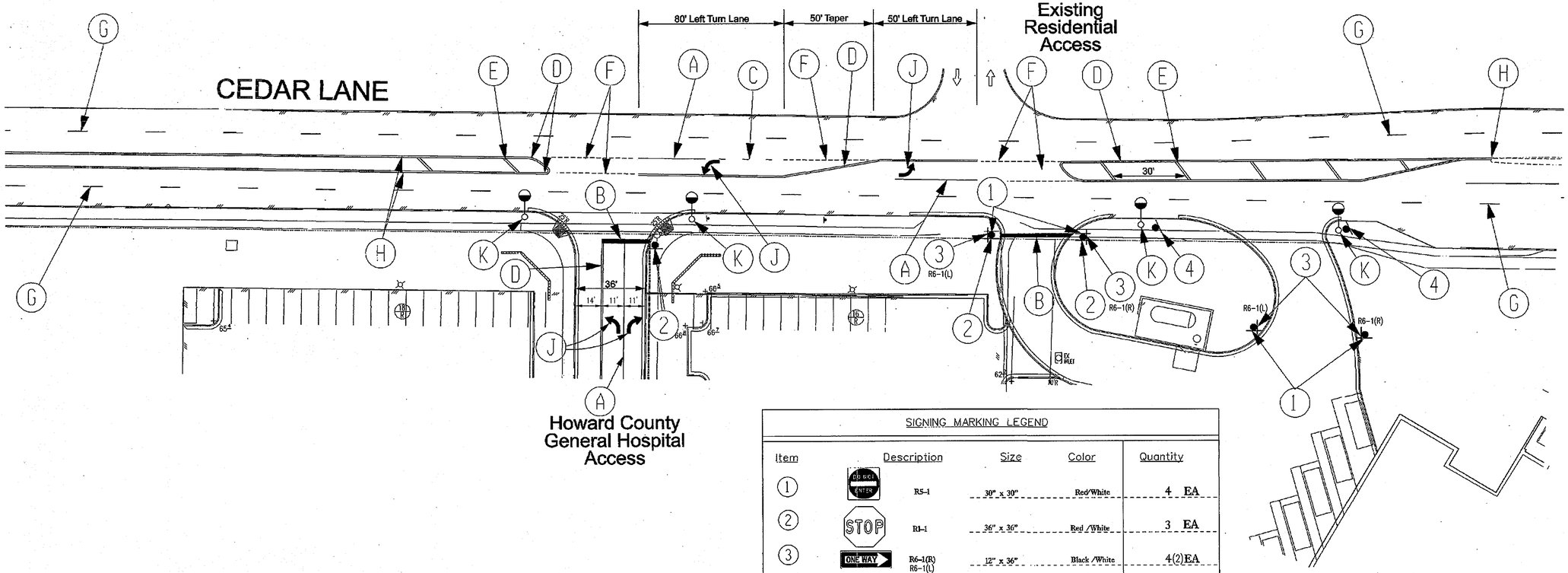
PERMIT INFORMATION CHART

SUBDIVISION HCGH TOWN CENTER			SECTION/AREA 8/2		LOT/PARCEL # 4/276
PLAT# OR L/F 18628	BLOCK # 5	ZONE POR/NT	TAX/ZONE MAP 35	ELECT. DISTRICT 5TH	CENSUS TRACT 6053.02
WATER CODE 106			SEWER CODE 5522500		

TITLE: SEDIMENT, & EROSION CONTROL NOTES & DETAILS FOR HOSPITAL TOWER , CANOPY, AND PARKING GARAGE ADDITION

DES BY WAJ	SCALE 1" = 30'	PROJ. NO. 99015T	12 OF 13
DRN BY HAL	DATE OCT, 2006		
CHK BY JEC	APPROVED WAJ		

SDP-07-057



SIGNING MARKING LEGEND

Item	Description	Size	Color	Quantity
1	R5-1	30" x 30"	Red/White	4 EA
2	R1-1	36" x 36"	Red /White	3 EA
3	R6-1(R) R6-1(L)	12" x 36"	Black /White	4(2)EA
4	R3-2	30" x 30"	Black /White	2 EA

NOTES:

1) Contact Howard County Traffic Division at 410-313-5752 prior to Placing any signs or markings.
2) All sign posts used for traffic control signs installed in the County right-of-way shall be mounted on a 2" galvanized steel perforated, square tube post (14 gauge) inserted into a 2-1/2" galvanized steel, perforated square tube sleeve (12 gauge) - 3' long. A galvanized steel pole cap shall be mounted on top of each post.
3) Four(4) street lights as shown - 250 watt HPS vapor sag fixture, mounted at 30' on a bronze fiberglass pole using a 12' arm.

Signing and Pavement Marking Details

	Quantity
A. Install 4 in. wide solid white pavement marking for lane line.	65 LF
B. Install 24 in. wide solid white pavement marking for stop line,preformed heat applied tape or thermoplastic.	60 LF
C. Install 4 in. wide solid white dotted pavement marking 2' Segment / 6' Space / 2' Segment	10 LF
D. Install 4 in. wide solid double yellow pavement marking for center line.	1,600 LF
E. Install 12 in. wide solid yellow pavement marking for hatch area.(30' spacing at a 45 degree angle)	65 LF
F. Remove existing markings by grinding.	520 LF
G. Existing to Remain.	N/A
H. Tie to existing pavement markings.	N/A
J. Install Preformed pavement marking symbol.	4 EA
K. Install Street Light	4 EA

SHEET INDEX

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The Traffic Group

The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601

Cedar Lane

Cedar Lane at Howard Co. General Hospital Access

Signing and Pavement Marking Plan

NO.	REVISION DESCRIPTION	BY	DATE
1	COMMENTS	TW	1-15-07

SCALE: 1" = 30'
DRAWN BY: K. Hurley
DESIGNED BY: P. Dorr
CHECKED BY: P.Dorr
DATE: November 9, 2006
JOB NO: 2004-0421
SHEET NO: 1 of 1
LOCATION: Howard Co., MD
FILE: Howard County General Hospital MOT.dgn

January 31, 2007
DATE

STATE OF MARYLAND — STACEY A. CORNELIUS — No. 17243 — REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER. NO. 17243

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 4/12/07

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 4/17/07

DIRECTOR — DATE 4/17/07

DATE	NO.	REVISION DESCRIPTION

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Drawing name: R:\Land Projects\89015T - Howard County General Tower\dwg\89015THCsetSP13.dwg
Plotted: Apr 03, 2007 - 2:56pm

ADDRESS CHART	
LOT/PARCEL	STREET ADDRESS
4/276	5755 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - HOSPITAL
4/276	5757 CEDAR LANE ~ COLUMBIA, MARYLAND 21044 - PARKING GARAGE

PERMIT INFORMATION CHART					
SUBDIVISION HCGH TOWN CENTER			SECTION/AREA 8/2		LOT/PARCEL 4/276
PLAT# OR L/F 18628	BLOCK # 5	ZONE POR NT	TAX/ZONE MAP 35	ELECT. DISTRICT 5TH	CENSUS TRACT 6053.02
WATER CODE 106			SEWER CODE 5522500		

TITLE: SIGNING AND PAVEMENT MARKING PLAN (CEDAR LANE) FOR HOSPITAL TOWER, CANOPY, AND PARKING GARAGE ADDITION

DES BY WAJ	SCALE AS SHOWN	PROJ. NO. 89015L
DRN BY HAL	DATE OCT, 2006	13 OF 13
CHK BY JEC	APPROVED WAJ	

SDP-07-57