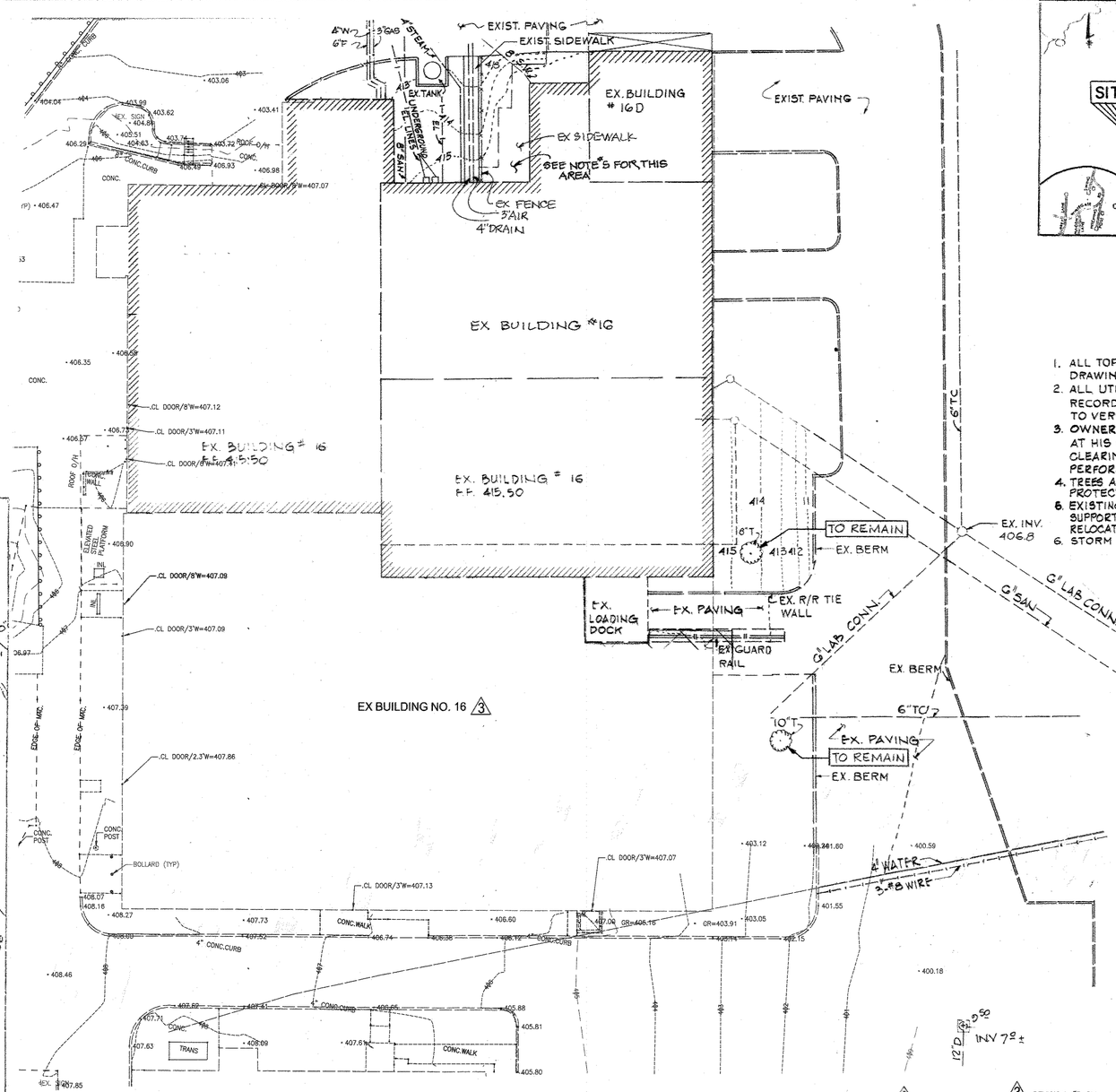
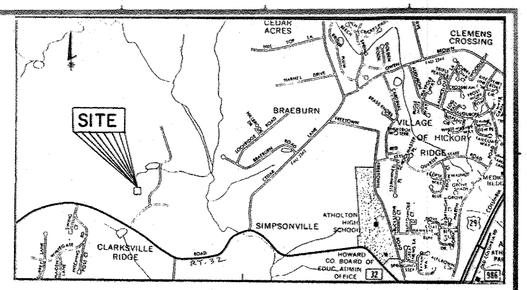
LEGEND

EXIST. BUILDING
EXIST. CONTOUR — 416
EXIST. SHRUB
EXIST. TREE — 6"T
EXIST. STORM DRAIN — 6"TC
EXIST. WATER — 4"WATER
EXIST. SANITARY SEWER — 6"SAN
EXIST. LABORATORY CONNECTION — 6"LAB. CONN.
EXIST. UNDERGROUND WIRES — 3-#8 WIRE
EXIST. GUARD RAIL
UNDERCUTTING AREA



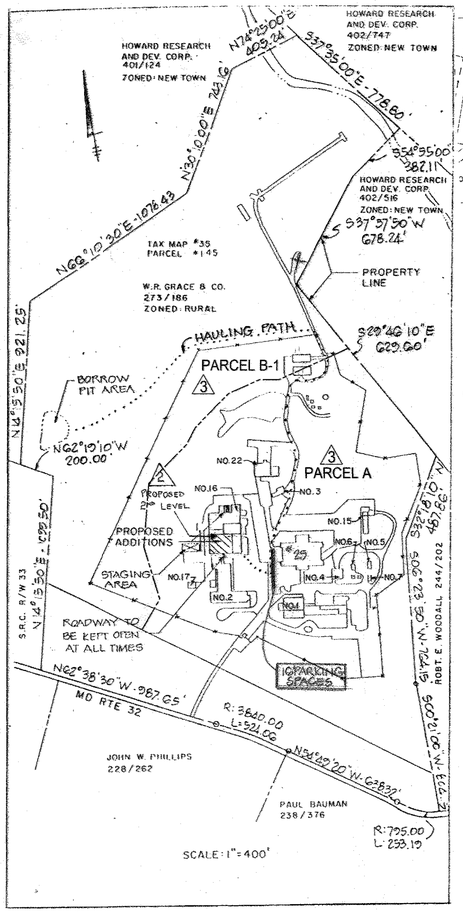


VICINITY MAP

SCALE: 1"=2000'

GENERAL NOTES

1. ALL TOPOGRAPHY SHOWN IS BASED ON INFORMATION FROM DRAWING NO. D71009 AS PROVIDED BY W.R. GRACE & CO.
2. ALL UTILITIES SHOWN ARE BASED UPON BEST AVALIABLE RECORDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITIES.
3. OWNER WILL REMOVE CERTAIN EXISTING TREES AND/OR SHRUBS AT HIS OPTION PRIOR TO START OF CONSTRUCTION. ALL REMAINING CLEARING AND GRUBBING WITHIN LIMITS OF WORK IS TO BE PERFORMED BY CONTRACTOR.
4. TREES AND/OR SHRUBS INDICATED "TO REMAIN" ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
5. EXISTING CHAIN LINK FENCE, STEEL STAIR, COOLING TOWER AND SUPPORT FRAME, AND GAS BOTTLES IN THIS AREA ARE TO BE RELOCATED BY OWNER PRIOR TO START OF CONSTRUCTION.
6. STORM WATER MANAGEMENT WAS DONE UNDER SDP-84-256



LOCATION PLAN

REVISION NOTES: 8/25/2015

1. ALL TOPOGRAPHY SHOWN IS BASED ON A FIELD SURVEY DATED JULY 17, 2015 BY MORRIS & RITCHIE ASSOCIATES.
2. ALL UTILITIES SHOWN ARE BASED UPON BEST AVALIABLE RECORDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITIES.
3. REVISIONS HAVE BEEN MADE TO THE PLANS TO SHOW THE INSTALLATION OF SKID MOUNTED CHEMICAL TANKS AND EQUIPMENT ON CONCRETE SLABS AROUND THE BUILDING AND SUPPORT COLUMNS FOR RAISED PROCESS PIPING RACKS.
4. TANK BUILDING PERMIT NUMBER IS B1500873.
5. EXISTING CONDITIONS AROUND BUILDING 16 HAVE BEEN UPDATED PER JULY 2015 FIELD SURVEY.

PURPOSE STATEMENT

THE PURPOSE OF REVISION 3 IS TO SHOW THE LOCATION OF SKID MOUNTED CHEMICAL TANKS AND EQUIPMENT LOCATED ON THE WEST SIDE OF BUILDING 16. THE CHEMICAL TANKS AND EQUIPMENT REST ON CONCRETE SLABS INDEPENDENT OF THE BUILDING SLAB. REVISION 3 ALSO INCLUDES ELEVATED PIPE RACKS RUNNING FROM BUILDING 16 TO BUILDING 17A. THE FOUNDATIONS FOR THE PIPE RACKS HAVE BEEN ADDED TO THE SDP.

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-14-84

NOTE: NO ADDITIONAL PARKING IS REQUIRED FOR REVISION #2 SINCE NO ADDITIONAL EMPLOYEES WILL BE ADDED AND ADEQUATE PARKING CURRENTLY EXISTS ONSITE. THE DEPARTMENT OF PLANNING AND ZONING DID NOT REVIEW PARKING CALCULATIONS WITH REVISION #2.

SITE ANALYSIS

1. LOCATION: FIFTH ELECTION DISTRICT HOWARD CO. MARYLAND TAX MAP 35 PARCEL 145
2. PRESENT ZONING: ~~RURAL~~ PEC
3. FLOOR AREA : 20,500 SQ.FT. + 10,772 SF SECOND LEVEL = 31,272 SF (2)
4. EMPLOYEES : 22
5. PARKING REQUIRED : (7 SPACES PER 10 EMPLOYEEYS) = 16 SPACES
6. PARKING PROVIDED : 26 SPACES (TO BE PROVIDED ON GRACE CAMPUS) ~~SITE DEVELOPMENT PLAN FOR NEW RESEARCH BUILDING 7-25~~
7. PROPOSED USE : RESEARCH BLDG.
8. TOTAL DISTURBED AREA: 1,300 SF ± (3)

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
P 145	~~7379 MD. RTE. 32~~ 7500 GRACE DRIVE

OTHER PLANNING AND ZONING CASES RELATED TO W.R. GRACE & CO., ARE: CASE NO. 168C, CASE NO. VP-81-86, CASE NO. VP-82-31E, CASE NO. 82-92, CASE NO. 83-50E, AND CASE NO. 83-54E.

(3) APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	9-4-15 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	9-11-15 DATE
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING	9-11-15 DATE

(2) REVISION #2 BY: (3) REVISION #3 BY:

MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
14280 PARK CENTER DRIVE
LAUREL, MD 20707
(410) 792-9792 / (301) 776-1690
FAX: (410) 792-7395
MRA@TA.COM

SUBDIVISION NAME			SECT./AREA	LOT/PARCEL #
W.R. GRACE			-	P 145
PLAT #	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
273/186	22	PEC ~~RURAL~~	35	5TH	6053.01
WATER CODE			SEWER CODE	
N/A			N/A	

FOR REVISION #3 8-20-15
FOR REVISION #2 1-9-15

MD PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 29203, EXPIRATION DATE: 06/16/2017.

MD PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 29203, EXPIRATION DATE: 6/16/17.

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 6-26-84
CHIEF, BUREAU OF ENGINEERING — DATE 6-26-84

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 7-9-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 7-10-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 7-10-84

WHITNEY BAILEY COX MAGNANI
CONSULTING ENGINEERS
Suite 311 Green Spring Station
2360 West Joppa Road
Lutherville, Maryland 21093
301-296-4200

OWNER:
W.R. GRACE & CO.
7379 ROUTE 32
COLUMBIA, MD. 21044

REVISED SITE (3) DEVELOPMENT PLAN

NO	DATE	DESCRIPTION
3	8/27/15	SEE 8/25/15 REVISION NOTES
2	1/9/15	ADDED 2ND LEVEL TO BUILDING 16
REVISIONS		

SEAL
Paul Eugene Cox
4/2/84
STATE OF MARYLAND — PAUL EUGENE COX — NO. 9557 — REGISTERED PROFESSIONAL ENGINEER

FIRM WBCM
DESIGNED PD
DRAWN GG
CHECKED PEC

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planners . space planning
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825 WEST LAWRENCE STREET
APPLETON, WISCONSIN 54911

W.R. GRACE & CO.
WASHINGTON RESEARCH CTR.
COLUMBIA, MARYLAND
5th Election District
Parcel 145 Tax Map 35
Howard Co.

BUILDING NO. 16-E ADDITION

UNDERCUTTING AND EXISTING CONDITIONS PLAN

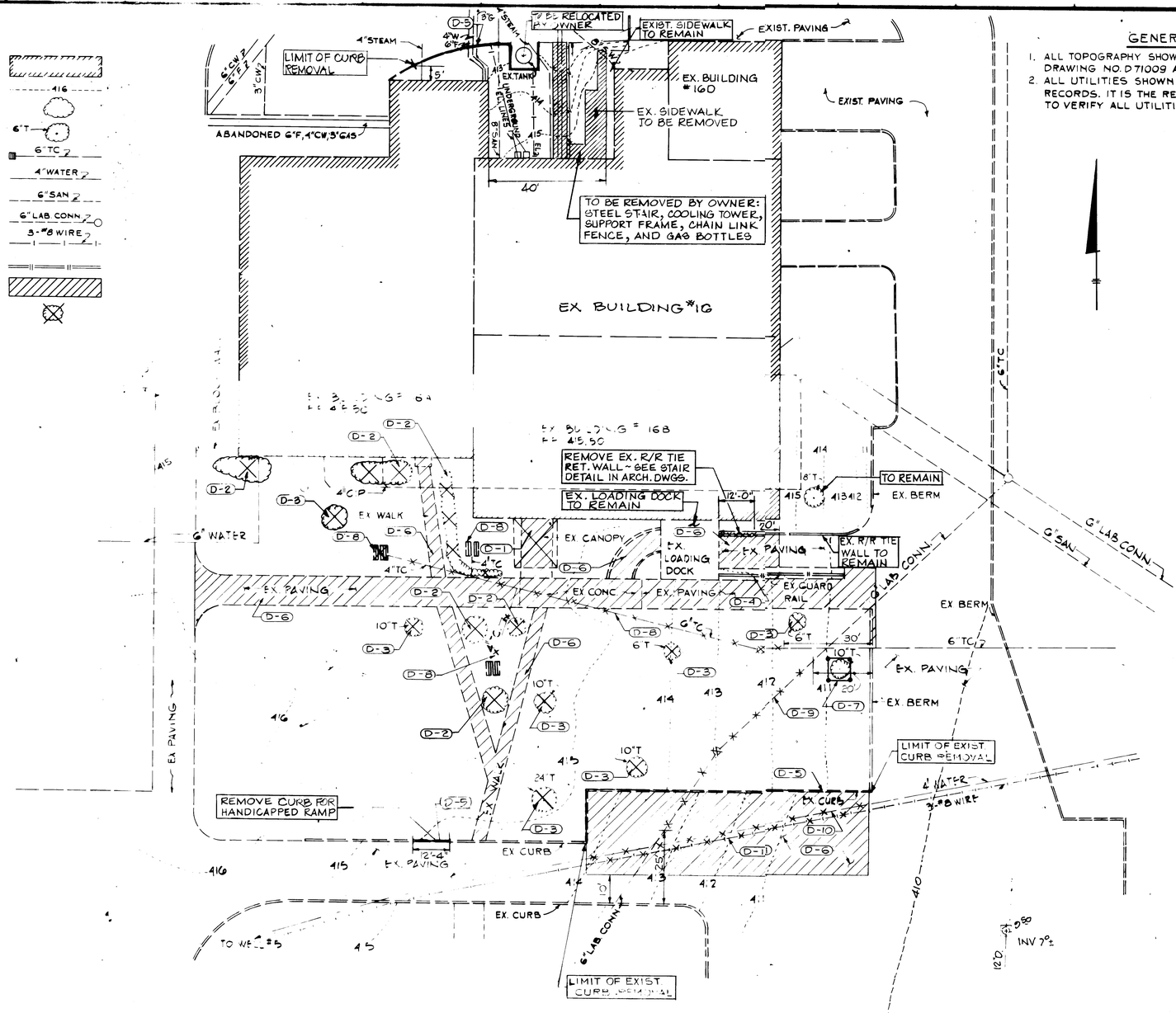
JOB NO. 8406
SCALE: 1"=20'
DATE 5/30/84
DRAWING SD-1
1 OF 6

SDP-84-255

P:\PROJ\12039 Grace\PLANS\DEVELOPMENT PLAN SETS\SDP\12039-BLDG16-SD-01-REPLACEMENT MYLAR.dwg, 8/27/2015 3:50:21 PM, MChamberlain, 1:1, Copyright 2015 Morris & Ritchie Associates, Inc.

LEGEND

- EXIST. BUILDING
- EXIST. CONTOUR — 416
- EXIST. SHRUB
- EXIST. TREE — 6"T
- EXIST. STORM DRAIN — 6"TC
- EXIST WATER — 4"WATER
- EXIST. SANITARY SEWER — 6"SAN
- EXIST. LABORATORY CONNECTION — 6"LAB CONN
- EXIST. UNDERGROUND WIRES — 3-#6 WIRE
- EXIST. GUARD RAIL
- PAVEMENT REMOVAL
- TREE REMOVAL



GENERAL NOTES

1. ALL TOPOGRAPHY SHOWN IS BASED ON INFORMATION FROM DRAWING NO. D71009 AS PROVIDED BY W.R. GRACE & CO.
2. ALL UTILITIES SHOWN ARE BASED UPON BEST AVALIABLE RECORDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITIES.

DEMOLITION NOTES

- D-1 REMOVE EXISTING CANOPY, SIDEWALK, SUPPORT POSTS & FDNS.
- D-2 REMOVE EXISTING SHRUBS.
- D-3 REMOVE EXISTING TREE.
- D-4 REMOVE EXISTING GUARD RAIL & SUPPORTS.
- D-5 REMOVE EXISTING CURB.
- D-6 REMOVE EXISTING PAVING.
- D-7 INSTALL TREE PROTECTION.
- D-8 REMOVE EXISTING STORM DRAIN & APPURTENANCES.
- D-9 REMOVE EXISTING LAB. CONNECTION.
- D-10 REMOVE EXISTING WATER MAIN.
- D-11 REMOVE EXISTING ELECTRIC WIRES.

APPROVED
BUREAU OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-14-84

SUBDIVISION NAME			SECT./AREA		LOT/PARCEL #
W.R. GRACE			—		P 145
PLAT #	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
273/186	22	RURAL	35	5TH	6053.01
WATER CODE			SEWER CODE		
N/A			N/A		

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 6-26-84
CHIEF, BUREAU OF ENGINEERING — DATE 6-26-84

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 7-9-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 7-10-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 7-10-84

WHITNEY BAILEY COX MAGNANI
CONSULTING ENGINEERS
Suite 311 Green Spring Station
2360 West Joppa Road
Lutherville, Maryland 21093
301-296-4200

OWNER:
W.R. GRACE & CO.
7379 ROUTE 32
COLUMBIA, MD. 21044

NO.	DATE	DESCRIPTION

REVISIONS

SEAL

STATE OF MARYLAND — PAUL E. CROSS — NO. 9559 — REGISTERED PROFESSIONAL ENGINEER

FIRM WBCM
DESIGNED PD
DRAWN GG
CHECKED PEC

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architects . interior designers
planners . space planning

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825 WEST LAWRENCE STREET
APPLETON, WISCONSIN 54911

W.R.GRACE & CO.
WASHINGTON RESEARCH CTR.
COLUMBIA, MARYLAND
5th Election District
Parcel 145 Tax Map 35
Howard Co. Md.
BUILDING NO. 16-E ADDITION

DEMOLITION PLAN

JOB NO. 8406
SCALE: 1" = 20'
DATE 5/30/84
DRAWING SD-2
2 OF 5

SDP-84-255

LEGEND

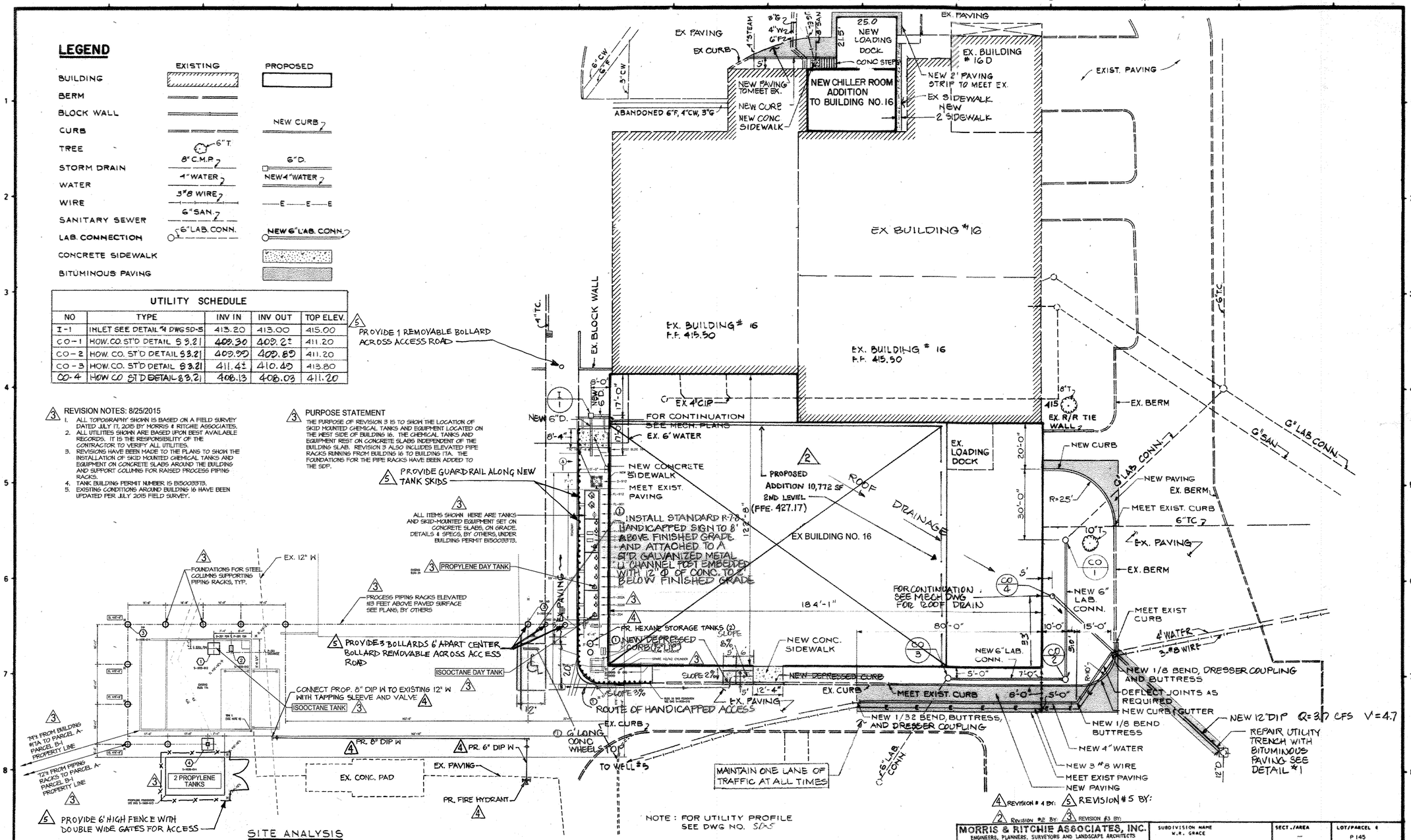
	EXISTING	PROPOSED
BUILDING		
BERM		
BLOCK WALL		
CURBS		NEW CURB
TREE	6"T.	
STORM DRAIN	8"C.M.P. / 4"WATER	6"D. / NEW 4"WATER
WATER		
WIRE	3#8 WIRE	E E E
SANITARY SEWER	6"SAN.	
LAB. CONNECTION	6"LAB. CONN.	NEW 6"LAB. CONN.
CONCRETE SIDEWALK		
BITUMINOUS PAVING		

UTILITY SCHEDULE

NO	TYPE	INV IN	INV OUT	TOP ELEV.
I-1	INLET SEE DETAIL #4 DWG SD-5	413.20	413.00	415.00
CO-1	HOW. CO. ST'D DETAIL #3.21	408.30	408.2±	411.20
CO-2	HOW. CO. ST'D DETAIL #3.21	403.90	403.80	411.20
CO-3	HOW. CO. ST'D DETAIL #3.21	411.4±	410.40	413.80
CO-4	HOW CO ST'D DETAIL #3.21	408.13	408.03	411.20

3 REVISION NOTES: 8/25/2015
1. ALL TOPOGRAPHY SHOWN IS BASED ON A FIELD SURVEY DATED JULY 17, 2015 BY MORRIS & RITCHIE ASSOCIATES.
2. ALL UTILITIES SHOWN ARE BASED UPON BEST AVAILABLE RECORDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITIES.
3. REVISIONS HAVE BEEN MADE TO THE PLANS TO SHOW THE INSTALLATION OF SKID MOUNTED CHEMICAL TANKS AND EQUIPMENT ON CONCRETE SLABS AROUND THE BUILDING AND SUPPORT COLUMNS FOR RAISED PROCESS PIPING RACKS.
4. TANK BUILDING PERMIT NUMBER IS B15003873.
5. EXISTING CONDITIONS AROUND BUILDING 16 HAVE BEEN UPDATED PER JULY 2015 FIELD SURVEY.

3 PURPOSE STATEMENT
THE PURPOSE OF REVISION 3 IS TO SHOW THE LOCATION OF SKID MOUNTED CHEMICAL TANKS AND EQUIPMENT LOCATED ON THE WEST SIDE OF BUILDING 16. THE CHEMICAL TANKS AND EQUIPMENT REST ON CONCRETE SLABS INDEPENDENT OF THE BUILDING SLAB. REVISION 3 ALSO INCLUDES ELEVATED PIPE RACKS RUNNING FROM BUILDING 16 TO BUILDING 17A. THE FOUNDATIONS FOR THE PIPE RACKS HAVE BEEN ADDED TO THE SDP.

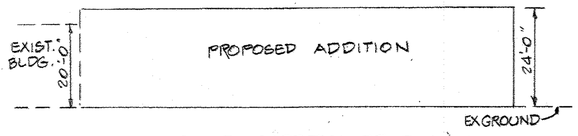


SITE ANALYSIS

1. LOCATION: FIFTH ELECTION DISTRICT HOWARD CO. MARYLAND TAX MAP 35 PARCEL 145
2. PRESENT ZONING: ~~RURAL~~ PEC
3. FLOOR AREA : 20,500 SQ.FT. + 10,772 SF SECOND LEVEL = 31,272 SF 2
4. EMPLOYEES : 22
5. PARKING REQUIRED : (7 SPACES PER 10 EMPLOYEEYS) = 16 SPACES
6. PARKING PROVIDED : 26 SPACES (TO BE PROVIDED ON GRACE CAMPUS) ~~SITE DEVELOPMENT PLAN FOR NEW RESEARCH BUILDING #25 TO INCLUDE 1 HANDICAPPED SPACE)~~
7. PROPOSED USE: RESEARCH BLDG.
8. TOTAL DISTURBED AREA: 1300 SF ± 3

OTHER PLANNING AND ZONING CASES RELATED TO W.R. GRACE & CO., ARE: CASE NO. 168C, CASE NO. VP-81-86, CASE NO. VP-82-31E, CASE NO. 82-92, CASE NO. 83-50E, AND CASE NO. 83-54E

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-14-84



BUILDING ADDITION PROFILE (NOT TO SCALE)

3 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 9.4.15
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 9-11-15
DIRECTOR, DEPARTMENT OF PLANNING AND ZONING	DATE 9-11-15

TCA 33964

4 REVISION # 4 BY: 5 REVISION # 5 BY:
2 REVISION #2 BY: 3 REVISION #3 BY:

MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
14280 PARK CENTER DRIVE
LAUREL, MD 20707
(410) 792-9792 / (301) 776-1690
FAX: (410) 792-7395
MRAGTA.COM

FOR REVISION #5 TCN 8-20-15
FOR REVISION #4 TCN 6/29/16
MD PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 29203, EXPIRATION DATE: 06/16/2017.

FOR REVISION #2
MD PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 29203, EXPIRATION DATE: 6/16/15.
1-9-15

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
W.R. GRACE	—	P 145

PLAT #	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
273/186	22	PEC ~~RURAL~~	35	5TH	6053.01

WATER CODE	SEWER CODE
N/A	N/A

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 6-26-84
CHIEF, BUREAU OF ENGINEERING — DATE 6-26-84

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 7-9-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 7-10-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 7-10-84

WHITNEY BAILEY COX MAGNANI
CONSULTING ENGINEERS
Suite 311 Green Spring Station
2360 West Joppa Road
Lutherville, Maryland 21093
301-296-4200

OWNER:
W.R. GRACE & CO.
7379 ROUTE 32
COLUMBIA, MD. 21044

REVISED SITE 3 DEVELOPMENT PLAN

NO.	DATE	DESCRIPTION
5	12-6-16	ADDED BOLLARDS, GUARD RAIL, FENCING PER HoCo RED SHEET 6
4	6/29/16	ADDED FIRE HYDRANT AND CHEMICAL STORAGE TANKS
3	8/27/15	SEE 8/25/15 REVISION NOTES
2	7/9/15	ADDED 2ND LEVEL TO BUILDING 16
1	7/20/84	HANDICAPPED PARKING (VARIED)

REVISIONS

SEAL
Paul Eugene Beck 4/2/84

FIRM	WBCM
DESIGNED	PD
DRAWN	GG
CHECKED	PEC

mark beck associates inc.
architects . interior designers
planners . space planning

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625 WEST LAWRENCE STREET
APPLETON, WISCONSIN 54911

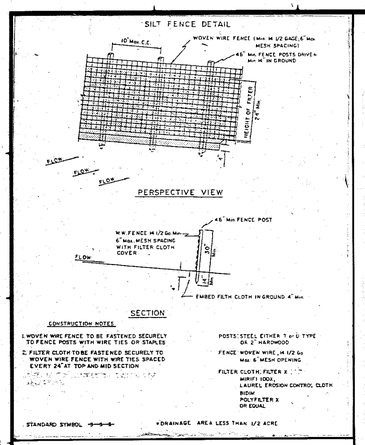
W.R.GRACE & CO.
WASHINGTON RESEARCH CTR.
COLUMBIA, MARYLAND
5th Election District
Parcel 145 Tax Map 35
BUILDING NO. 16-E ADDITION

LAYOUT & UTILITY PLAN

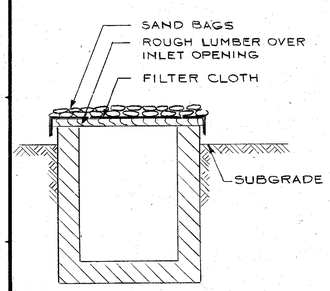
JOB NO.	DRAWING
8406	SD-3
SCALE: 1" = 20'	3 OF 5
DATE 6/30/84	

SDP-84-255

P:\PROJ\12539 Grace\PLANS\BUILDING 16\PLOT\PLAN SITE\SDP\12539-BLD016-SD-03-REPLACEMENT MYLAR.dwg, 8/27/2015 3:44:49 PM, MChamberlain,
1:1, Copyright 2015 Morris & Ritchie Associates, Inc.



SILT FENCE DETAIL



SECTION
NOT TO SCALE

INLET PROTECTION DETAIL

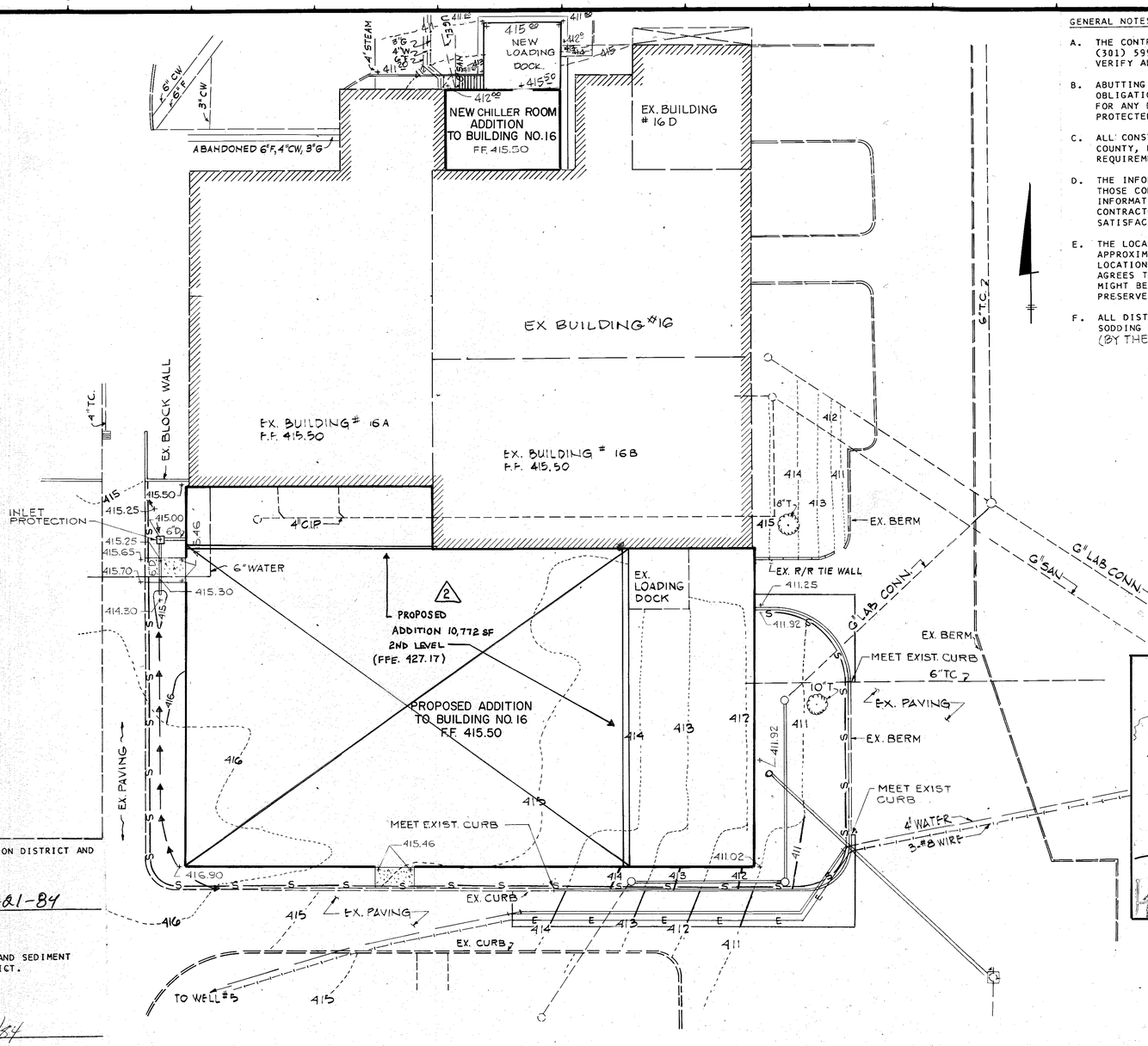
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE — DATE 6-21-84

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:

DISTRICT COORDINATOR
HOWARD SOIL CONSERVATION DISTRICT — DATE 6/21/84



GENERAL NOTES

A. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT TELEPHONE NO. (301) 559-0100 AT LEAST 72 HOURS PRIOR TO STARTING EXCAVATION TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES.

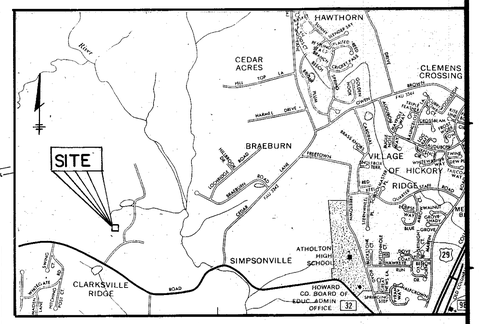
B. ABUTTING PROPERTIES TO BE PROTECTED FROM DAMAGE. REPAIRS ARE AN OBLIGATION OF THE CONTRACTOR. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO EXISTING VEGETATION AND ANY VIOLATIONS OF THE PROTECTED AREAS.

C. ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH HOWARD COUNTY, DEPARTMENT OF PUBLIC WORK STANDARDS, SPECIFICATIONS AND REQUIREMENTS.

D. THE INFORMATION SHOWN ON THESE PLANS IS FOR THE CONVENIENCE OF THOSE CONCERNED ONLY. THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION SHOWN IS NOT WARRANTEED OR GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS OWN SATISFACTION.

E. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

F. ALL DISTURBED AREAS NOT STABILIZED WITH PAVING, BUILDING, SODDING OR MULCH IN PLANTING AREAS SHALL BE SEEDED AND MULCHED (BY THE OWNER)



VICINITY MAP

SCALE: 1"=2000'

SEQUENCE OF OPERATIONS FOR EROSION AND SEDIMENT CONTROL

		TIME FOR COMPLETION
1.	NOTIFY HOWARD COUNTY SEDIMENT CONTROL INSPECTOR TWO WORKING DAYS PRIOR TO BEGINNING ANY WORK.	
2.	BEGIN MINOR CLEARING OPERATIONS FOR CONSTRUCTION OF SEDIMENT CONTROL MEASURES	2 DAYS
3.	BEGIN MINOR GRADING AS REQUIRED FOR SEDIMENT CONTROL	3 DAYS
4.	INSTALL SILT FENCES	3 DAYS
4.	CLEAR & GRUB SITE, STRIP TOPSOIL. (REMOVE DRAINS AND)	3 DAYS
5.	GRADE SITE	3 DAYS
6.	INSTALL STORM DRAINS AND INLET PROTECTION	3 DAYS
7.	CONSTRUCTION	3 MONTHS
8.	SEED AND MULCH OR SOD ALL DISTURBED AREAS OUTSIDE BUILDING AND PAVING AREAS, UNLESS NOTED OTHERWISE ON THE PLANS	3 DAYS
9.	REMOVE ALL SEDIMENT CONTROL MEASURES PRIOR TO SUBSTANTIAL COMPLETION	1 WEEK
10.	ALL TIMES FOR COMPLETION ARE SUBJECT TO MODIFICATION.	

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE April 2, 1984

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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 — DATE April 2, 1984

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-14-84

2 REVISION #2 BY:

MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
14280 PARK CENTER DRIVE
LAUREL, MD 20707
(410) 792-9792 / (301) 776-1690
FAX: (410) 792-7395
MRAGTA.COM

SUBDIVISION NAME		SECT./AREA	LOT/PARCEL #
W.R. GRACE		—	P 145

PLAT #	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
273/186	22	~~PEC~~ ~~RURAL~~	35	5TH	6053.01

WATER CODE	SEWER CODE
N/A	N/A

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 6-26-84
CHIEF, BUREAU OF ENGINEERING — DATE 6-26-84

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 7-9-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 7-10-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 7-10-84

FOR REVISION #2
STATE OF MARYLAND — PAUL EUGENE GOLD — 23203 — REGISTERED PROFESSIONAL ENGINEER
1-9-15
MD PROFESSIONAL CERTIFICATION.
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 23203, EXPIRATION DATE: 6/16/15.

TCA 33964

WHITNEY BAILEY COX MAGNANI
CONSULTING ENGINEERS
Suite 311 Green Spring Station
2360 West Joppa Road
Lutherville, Maryland 21093
301-296-4200

OWNER:
W.R. GRACE & CO.
7379 ROUTE 32
COLUMBIA, MD. 21044

NO.	DATE	DESCRIPTION
2	1/9/15	ADDED 2ND LEVEL TO BUILDING 16
1	7/30/84	HANDICAPPED PARKING

REVISIONS

SEAL — STATE OF MARYLAND — PAUL EUGENE GOLD — NO. 9500 — REGISTERED PROFESSIONAL ENGINEER — 4/2/84

FIRM WBCM
DESIGNED PD
DRAWN GG
CHECKED PEC

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planners . space planning

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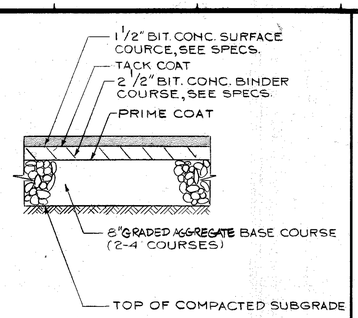
825 WEST LAWRENCE STREET
APPLETON, WISCONSIN 54911

W.R.GRACE & CO.
WASHINGTON RESEARCH CTR.
COLUMBIA, MARYLAND
5th Election District
Parcel 145 Tax Map 35
Howard Co. Md.
BUILDING NO. 16-E ADDITION

GRADING & SEDIMENT CONTROL PLAN

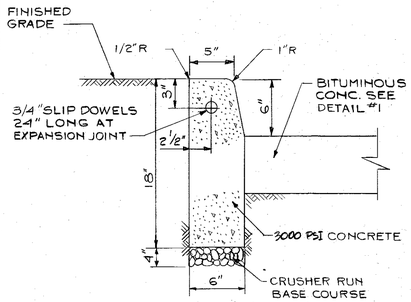
JOB NO. 8406
SCALE: 1" = 20'
DATE 5/30/84
DRAWING SD-4
4 OF 6

SDP-84-255



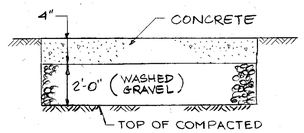
SECTION
NOT TO SCALE

1 BIT. CONCRETE PAVING



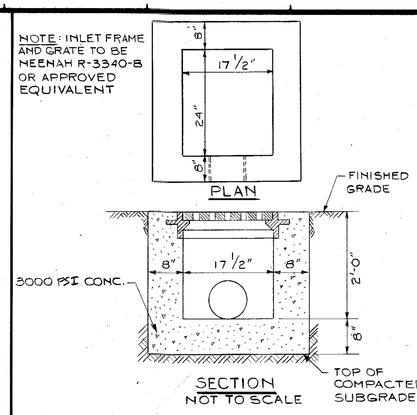
NOT TO SCALE

2 CONCRETE CURB DETAIL



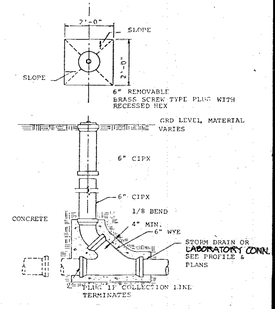
SECTION
NOT TO SCALE

3 CONCRETE SIDEWALK DETAIL



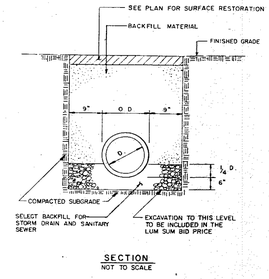
SECTION
NOT TO SCALE

4 STORM DRAIN INLET DETAIL



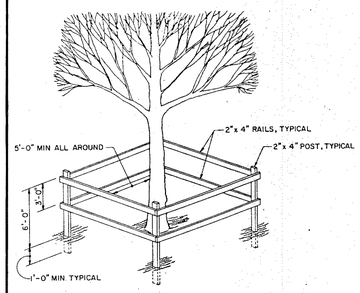
NOT TO SCALE

5 CLEANOUT DETAIL



SECTION
NOT TO SCALE

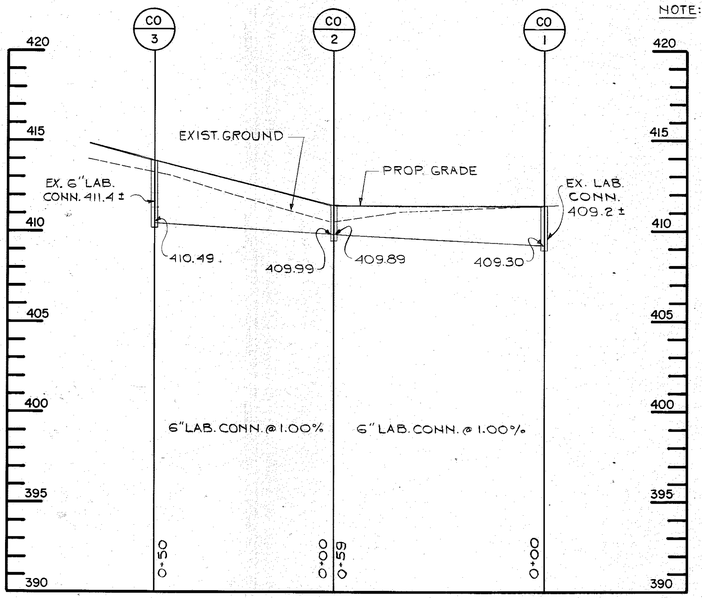
6 TRENCH DETAIL



NOT TO SCALE

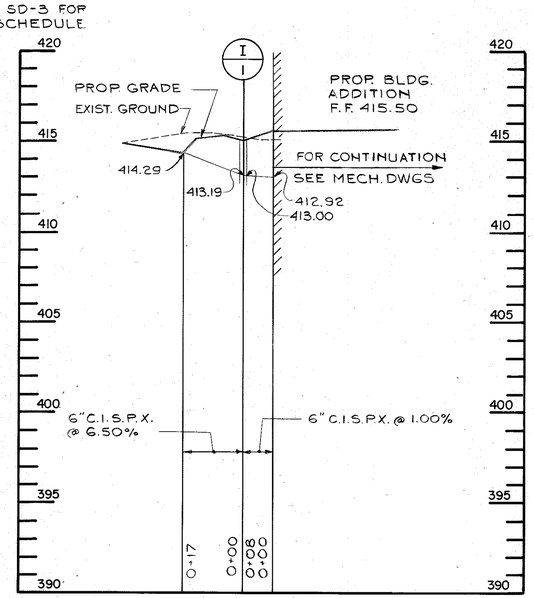
7 TREE PROTECTION DETAIL

NOTE: SEE DRAWING SD-3 FOR STRUCTURE SCHEDULE.



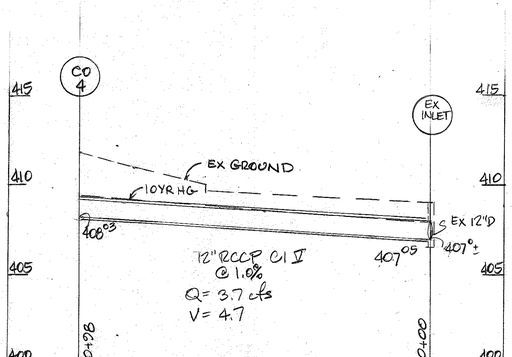
LAB. CONNECTION PROFILE

SCALE: HORZ.: 1"= 20'
VERT.: 1"= 4'



STORM DRAIN PROFILE

SCALE: HORZ.: 1"= 20'
VERT.: 1"= 4'



SUBDIVISION NAME: W.R. GRACE			SECT./AREA: —		LOT/PARCEL #: P 145
PLAT #: 273/186	BLOCK #: 22	ZONE: RURAL	TAX/ZONE MAP: 35	ELEC. DIST.: 5TH	CENSUS TR.: 6053.01
WATER CODE: N/A			SEWER CODE: N/A		

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 6-26-84
CHIEF, BUREAU OF ENGINEERING — DATE 6-26-84

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 7-9-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 7-10-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 7-10-84

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-14-84

WHITNEY BAILEY COX MAGNANI
CONSULTING ENGINEERS
Suite 311 Green Spring Station
2360 West Joppa Road
Lutherville, Maryland 21093
301-296-4200

OWNER:
W.R. GRACE & CO.
7379 ROUTE 32
COLUMBIA, MD. 21044

NO.	DATE	DESCRIPTION
REVISIONS		

SEAL

Paul Gorgenthaler 4/2/84
STATE OF MARYLAND PAUL E. CORGENTHALER No. 9559 REGISTERED PROFESSIONAL ENGINEER

FIRM: WBCM
DESIGNED: FD
DRAWN: GG
CHECKED: PEC

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planners . space planning

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APPLETON, WISCONSIN 54911

W.R.GRACE & CO.
WASHINGTON RESEARCH CTR.
COLUMBIA, MARYLAND
Election District 6 Parcel 145 Tax Map 35 Zoned M-2
BUILDING NO. 16-E
ADDITION

DETAILS & UTILITY PROFILE

JOB NO. 8406	DRAWING
SCALE: AS SHOWN	SD-5
DATE 5/30/84	5 OF 6

SDP-84-255

TCA 33964