

EXXON

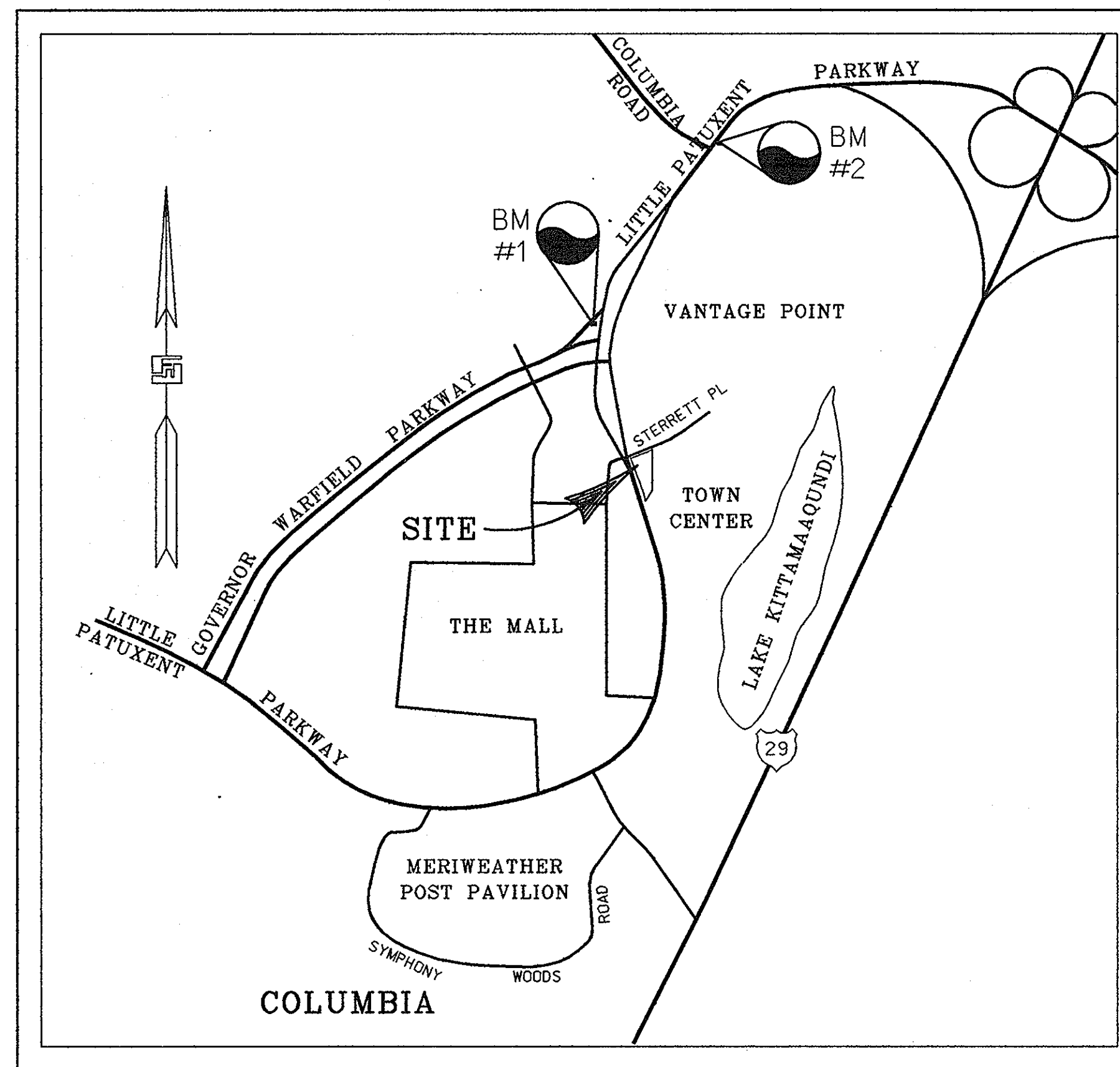
10141 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 RAS# 2-7709

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION LATEST EDITION" AND MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE LOCATION AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF EXISTING UTILITIES IN THE WORK AREA AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING FREDERICK WARD ASSOC., INC. AT (410)-879-2090 IN THE EVENT OF ANY DISCREPANCIES ON THE PLAN OR IN THE RELATIONSHIP OF EXISTING GRADES WITH PROPOSED GRADES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF A DISCREPANCY BETWEEN A SCALED DIMENSION AND A FIGURED DIMENSION SHOWN ON THE PLANS, THE FIGURED DIMENSION SHALL GOVERN.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT THE FAILURE TO MENTION SPECIFICALLY, WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT, SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 5 WORKING DAYS PRIOR TO BEGINNING WORK:

MISS UTILITY:	1-800-257-7777
C&P TELEPHONE CO.	1-410-725-9976
HOWARD COUNTY BUREAU OF UTILITIES	1-410-313-2366
AT&T CABLE LOCATION DIVISION	1-410-393-3553
BGE	1-410-685-0123

 NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION AT LEAST 48 HOURS PRIOR TO START (313-1855)
 HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410) 313-1880
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS, UNLESS STATED OTHERWISE.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE PURPOSE OF THIS SITE DEVELOPMENT PLAN IS TO CONSTRUCT A CONVENIENCE STORE, MODIFY THE BRICK RETAINING WALL, RELOCATE 3 MULTI-PRODUCT DISPENSERS, ADD 3 MPD'S AND CONSTRUCT 6 PUMP ISLANDS.
- SECTION 404 OF THE MD DEPARTMENT OF NATURAL RESOURCES DOES NOT APPLY NOR ARE ANY WETLANDS PERMITS REQUIRED FOR THIS PROJECT.
- ALL WASTE MATERIAL WHICH HAS BEEN GENERATED AS A RESULT OF THE CONVENIENCE STORE SHALL BE EITHER STORED ON SITE AND LATER SHIPPED FOR RECYCLING OR PROPERLY DISPOSED OF AT A COUNTY APPROVED LANDFILL.
- PUBLIC WATER AND SEWER WILL BE UTILIZED. THE EX 1" WATER SERVICE AND THE EX SEWER CONNECTION SHALL BE MAINTAINED. ON SITE WATER AND SEWER SHALL BE PRIVATE.
- ALL SITE LIGHTING MUST BE DIRECTED AWAY FROM THE ADJACENT PUBLIC RIGHT OF WAY AND THE VICINITAL PROPERTIES.



LOCATION MAP

SCALE: 1"=1000'

HOWARD COUNTY ADC MAP
PAGE NUMBER 15
GRID NUMBER G5

BENCHMARK INFORMATION

- 306A: STANDARD HOWARD COUNTY SURVEY DISC SET ON A CONCRETE MONUMENT AT THE SOUTHWEST INTERSECTION OF GOVERNOR WARFIELD PARKWAY AND LITTLE PATUXENT PARKWAY, 64' FROM THE CENTERLINE OF AN INLET, 57.5' FROM THE END OF THE CONCRETE CURB, AND 74' FROM A C&P MANHOLE. ELEVATION: 340.677 FEET.
- 306B: STANDARD HOWARD COUNTY SURVEY DISC SET ON A CONCRETE MONUMENT IN THE MEDIAN OF LITTLE PATUXENT PARKWAY AT THE SOUTHWEST SIDE OF INTERSECTION WITH COLUMBIA ROAD. ELEVATION: 361.056 FEET

SITE ANALYSIS

- AREA OF PARCEL: 1.04 ACRES, 45,302 SQ.FT.
- ZONING: NEW TOWN
FINAL DEVELOPMENT PLAN PHASE III-A
PLAN REFERENCES: SDP-82-80c & SDP-77-91c
- EXISTING USE: GASOLINE SERVICE STATION (TO CONTINUE)
PROPOSED ADDITIONAL USES: CONVENIENCE STORE
- FLOOR SPACE:
CONVENIENCE STORE:
GROSS AREA: 1,431 SQ.FT.
RETAIL AREA: 880 SQ.FT.
STORAGE AREA: 551 SQ.FT.
- MAXIMUM NUMBER OF EMPLOYEES: TWO (2)
- PARKING:
a. REQUIRED:
5 SPACES PER 1,000 SQ FT RETAIL AREA = 880 SQ.FT. x 5/1,000 = 5 SPACES
b. PROVIDED:
11 SPACES (INCLUDING 1 HANDICAPPED SPACE)
- BUILDING COVERAGE:
a. CONVENIENCE STORE : 1,431 SQ.FT.
b. CANOPY : 6,240 SQ.FT.
TOTAL COVERAGE : 7,671 SQ.FT. OR 16.93 % COVERAGE

SHEET INDEX

SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	SITE LAYOUT PLAN
4	SITE GRADING PLAN
5	SITE UTILITY AND PIPING PLAN
6	STORMCEPTOR NOTES AND DETAILS
7	SEDIMENT AND EROSION CONTROL PLAN
8	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
9	LANDSCAPE PLAN
10	BUILDING AND SIGNAGE PLAN
11	RETAINING WALL DETAILS

DATE:	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF-DEVELOPMENT ENGINEERING DIVISION 3/5/97 DATE
		CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH 3/11/97 DATE
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS 3-10-97 DATE
		HOWARD COUNTY HEALTH DEPARTMENT.

PLANNING BOARD APPROVAL

APPROVED
DATE: NOV. 21, 1996

DATE: 12-10-96

OWNER/DEVELOPER: **EXXON COMPANY, U.S.A.**
6301 IVY LANE
SUITE 700
GREENBELT, MARYLAND 20770
ATTN: MR. MIKE SPECHT
PHONE: (301)-513-7511

FREDERICK WARD ASSOCIATES INC.
ENGINEERS ARCHITECTS SURVEYORS
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090

SDP# -97-04

ADDRESS CHART	
PARCEL	STREET ADDRESS
	10141 LITTLE PATUXENT PARKWAY

PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECT./AREA	LOT/PARCEL NO.	TAX/ZONE	ELECT. DIST.	CENSUS TR.
COLUMBIA TOWN CENTER	7/6	P. 290 / LOT A	30	5	6054
PLAT NO. P. 21	BLOCK NO. 20	NEW TOWN COMMERCIAL			
WATER CODE E31	SEWER CODE	5551800			

STATE OF MARYLAND
PROFESSIONAL ENGINEER
M. F. WHITTE
PROFESSIONAL ENGR. NO. 19155

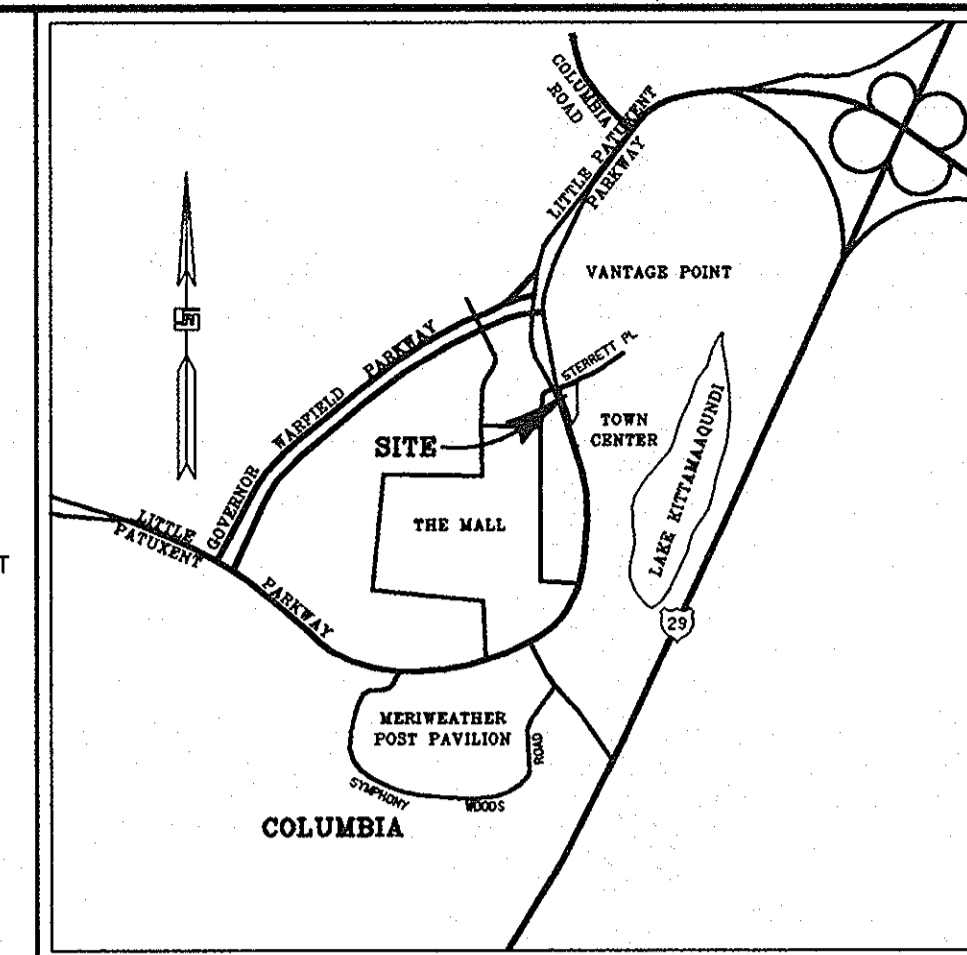
COLUMBIA TOWN CENTER			
AREA	SECTION	TAX MAP	PARCEL
	7	30	290
5th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
COVER SHEET			
FOR AN EXXON STATION			
10141 LITTLE PATUXENT PARKWAY			
COLUMBIA, MARYLAND 21044			
DESIGN BY: RBM	SCALE: AS SHOWN	PROJECT NO.: 93378	
DRAWN BY: MSM/KDN	DATE: 9/11/96	DRAWING NUMBER	
CHECKED BY: TFW	APPROVED:		01 OF 11

LEGEND

- EXISTING CONTOUR
- + EX 232.95 EXISTING SPOT ELEVATION
- (TBR) TO BE REMOVED
- (ETR) EXISTING TO REMAIN
- G- GAS LINE
- W- WATER LINE
- SS- SANITARY SEWER LINE
- SD- STORM DRAIN

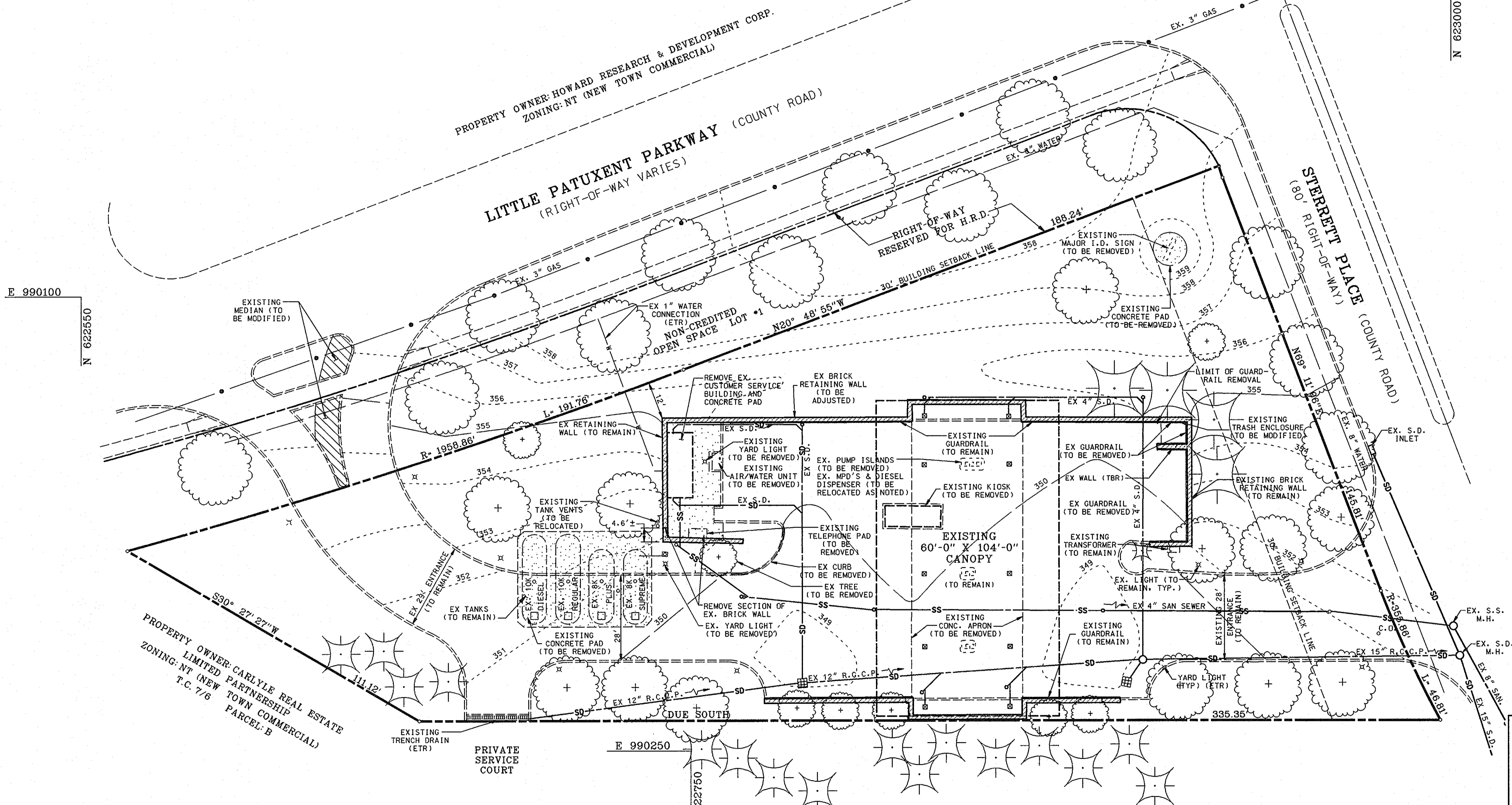
GENERAL NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND VERIFY EXISTING SITE CONDITIONS TO HIS SATISFACTION. CONTRACTOR TO MEET WITH EXXON FIELD ENGINEER ON JOB SITE TO IDENTIFY EQUIPMENT, SIGN, AND ITEMS TO BE REMOVED OR RETAINED PRIOR TO THE START OF DEMOLITION.
2. CONTRACTOR SHALL TRANSPORT EQUIPMENT, AS DESIGNATED BY EXXON FIELD ENGINEER, TO A LOCAL EXXON INVENTORY AREA.
3. CONTRACTOR MUST ADHERE TO ALL SAFETY REGULATIONS GIVEN BY D.S.H.A., EXXON AND HOWARD COUNTY.
4. ALL DEMOLISHED MATERIAL TO BE REMOVED TO AN APPROVED LOCATION.
5. EXISTING 1" WATER CONNECTION SHALL REMAIN.
6. ANY UTILITIES DAMAGED DURING DEMOLITION AND CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE. UTILITY REMOVAL AND/OR RELOCATION SHALL BE IN ACCORDANCE WITH REQUIREMENTS FROM THE RELEVANT UTILITY COMPANY.
7. LOCATION OF ALL EXISTING FEATURES ARE BASED ON A SURVEY PREPARED BY RICHARD P. BROWNE ASSOC., COLUMBIA, MD, DATED MAY 1971 AND AN AS-BUILT SITE PLAN SEALED BY R.H. CASSELL DATED JUNE 1976, REVISED MARCH 1982. THE EXISTING SEWER LATERAL AND ON-SITE SEWER CONNECTION SHALL BE MAINTAINED.
8. EXISTING UTILITY TOPS SHALL BE ADJUSTED PER PROPOSED GRADES.



VICINITY MAP

SCALE: 1" = 2000'



E 990100
N 622550

E 990000
N 623000

PROPERTY OWNER: HOWARD RESEARCH & DEVELOPMENT CORP.
ZONING: NT (NEW TOWN COMMERCIAL)

LITTLE PATUXENT PARKWAY (COUNTY ROAD)
(RIGHT-OF-WAY VARIES)

STERRETT PLACE (COUNTY ROAD)
(80' RIGHT-OF-WAY)

PROPERTY OWNER: CARLYLE REAL ESTATE
LIMITED PARTNERSHIP
ZONING: NT (NEW TOWN COMMERCIAL)
T.C. 7/6 PARCEL B

PRIVATE SERVICE COURT

E 990250
N 622750

CLARK BUILDING
PROPERTY OWNER: PROPERTY CAPITAL TRUST
ZONING: NT (NEW TOWN COMMERCIAL)
T.C. 7/6 PARCEL G

SDP-97-04
PLANNING BOARD APPROVAL

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE: Nov 21, 1996

DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

OWNER/DEVELOPER: **EXXON COMPANY, U.S.A.**
6301 IVY LANE
SUITE 700
GREENBELT, MARYLAND 20770
ATTN: MR. MIKE SPECHT
PHONE: (301)-513-7511

FREDERICK WARD ASSOCIATES INC.
ENGINEERS ARCHITECTS SURVEYORS
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2090

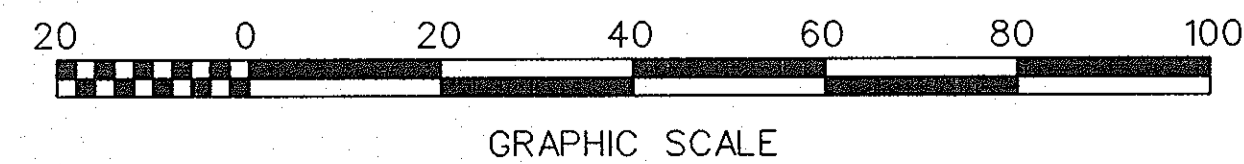
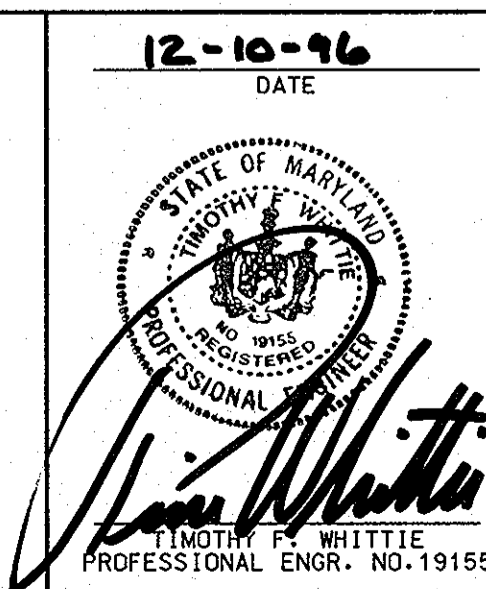
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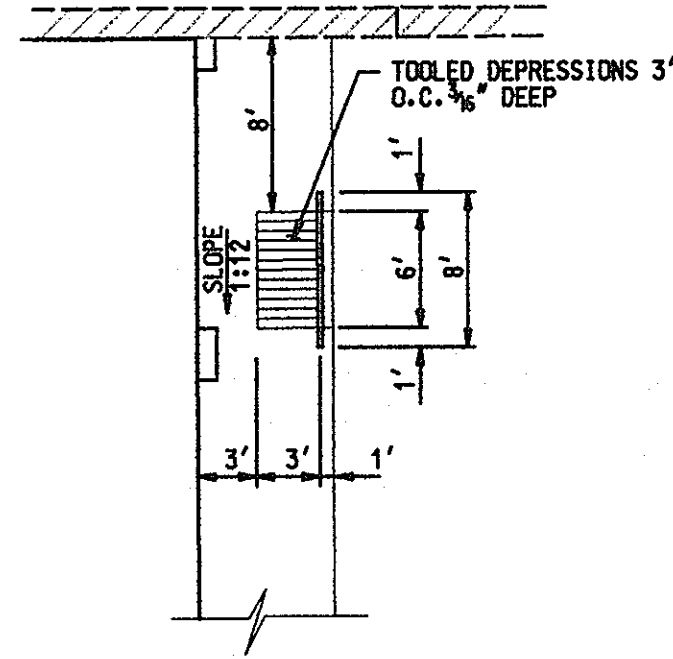
AREA: COLUMBIA TOWN CENTER
SECTION 7 AREA 6
TAX MAP 30 PARCEL 290
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: **EXISTING CONDITIONS AND DEMOLITION PLAN**
FOR AN EXXON STATION AT
10141 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

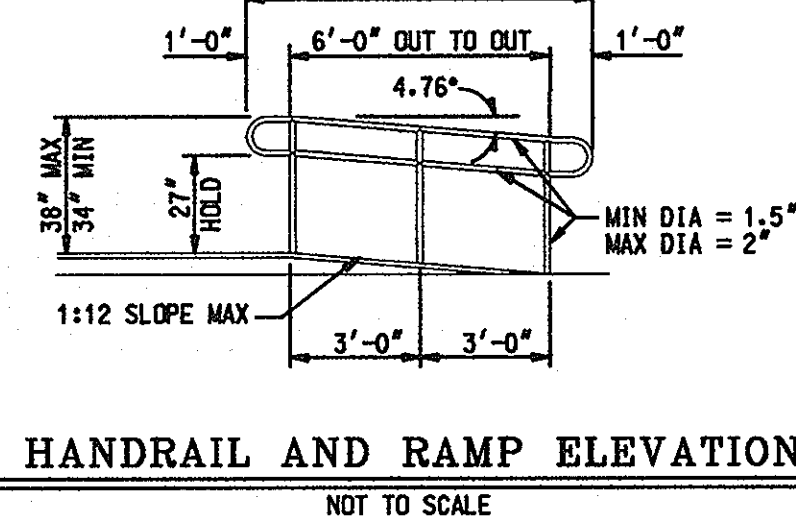
DESIGN BY: RBM SCALE: 1" = 20' PROJECT NO.: 93378
DRAWN BY: MSM/KDN DATE: 9/11/96 DRAWING NUMBER
CHECKED BY: TFW APPROVED: DATE: 02 OF 11

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
AT
1-800-257-7777
AT LEAST 48 HOURS
PRIOR TO EXCAVATION

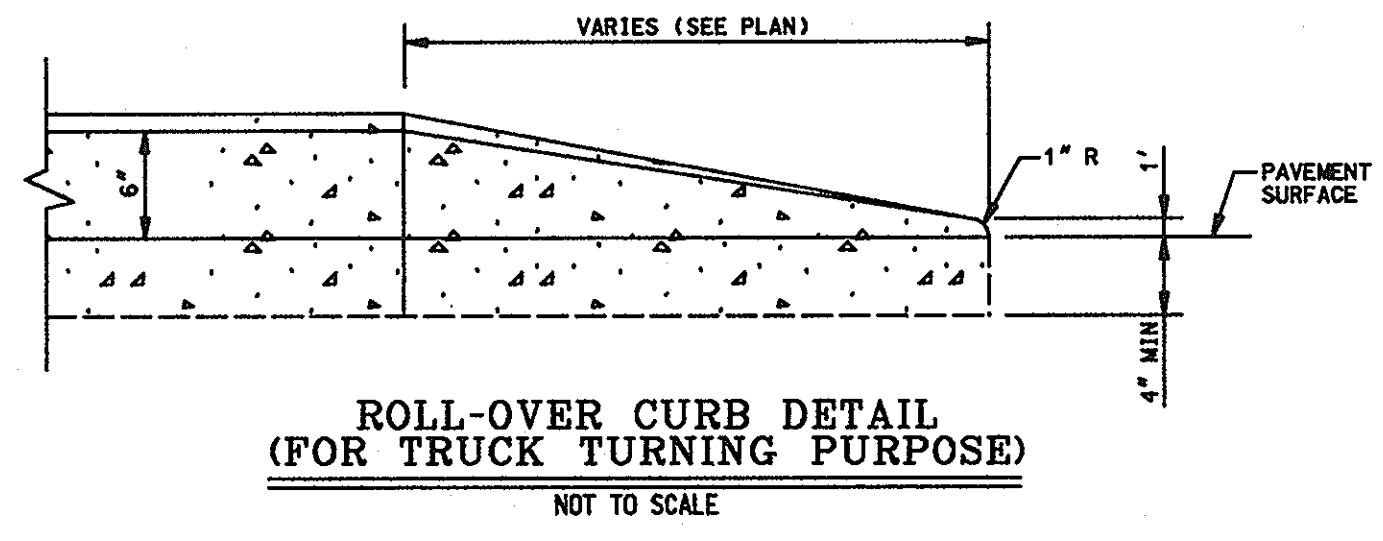




HANDICAP RAMP DETAIL
NOT TO SCALE



HANDRAIL AND RAMP ELEVATION
NOT TO SCALE



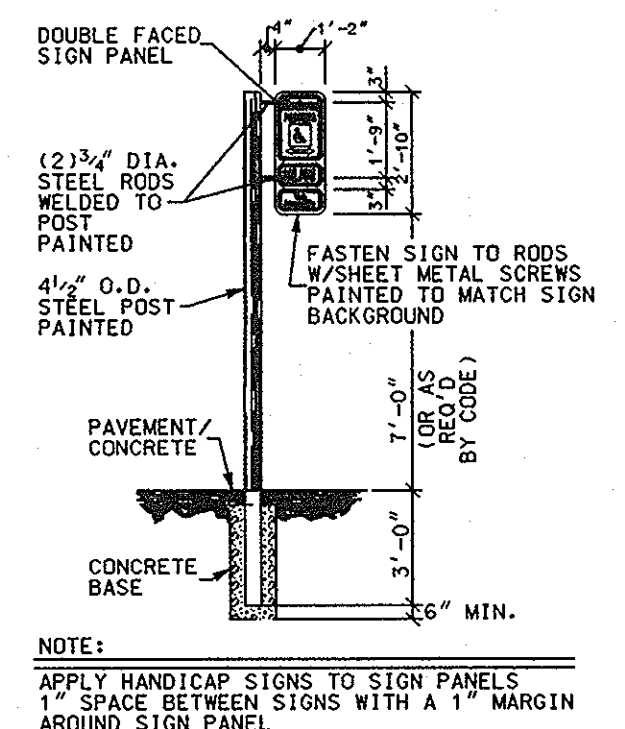
ROLL-OVER CURB DETAIL (FOR TRUCK TURNING PURPOSE)
NOT TO SCALE



COLORS:
LEGEND AND BORDER - GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND - WHITE

NOTE:
1.) ONE SIGN TO BE APPLIED TO METAL SIGN BOARD MOUNTED TO METAL POST.
2.) FREE STANDING SIGN 7'-0" ABOVE FINISHED GRADE.
3.) MOUNTED ON WALL OR STRUCTURE 6'-0" ABOVE GRADE.

HANDICAP SIGN DETAILS
NOT TO SCALE



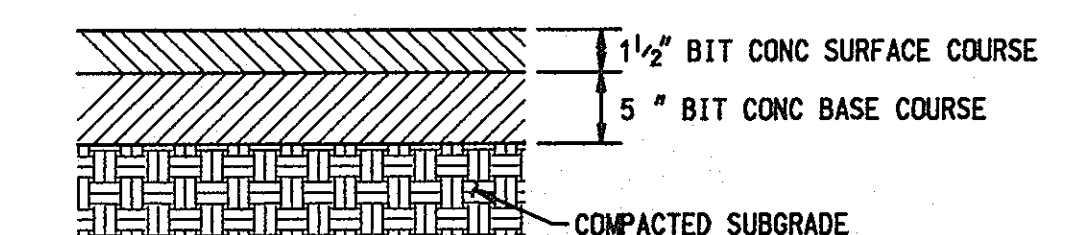
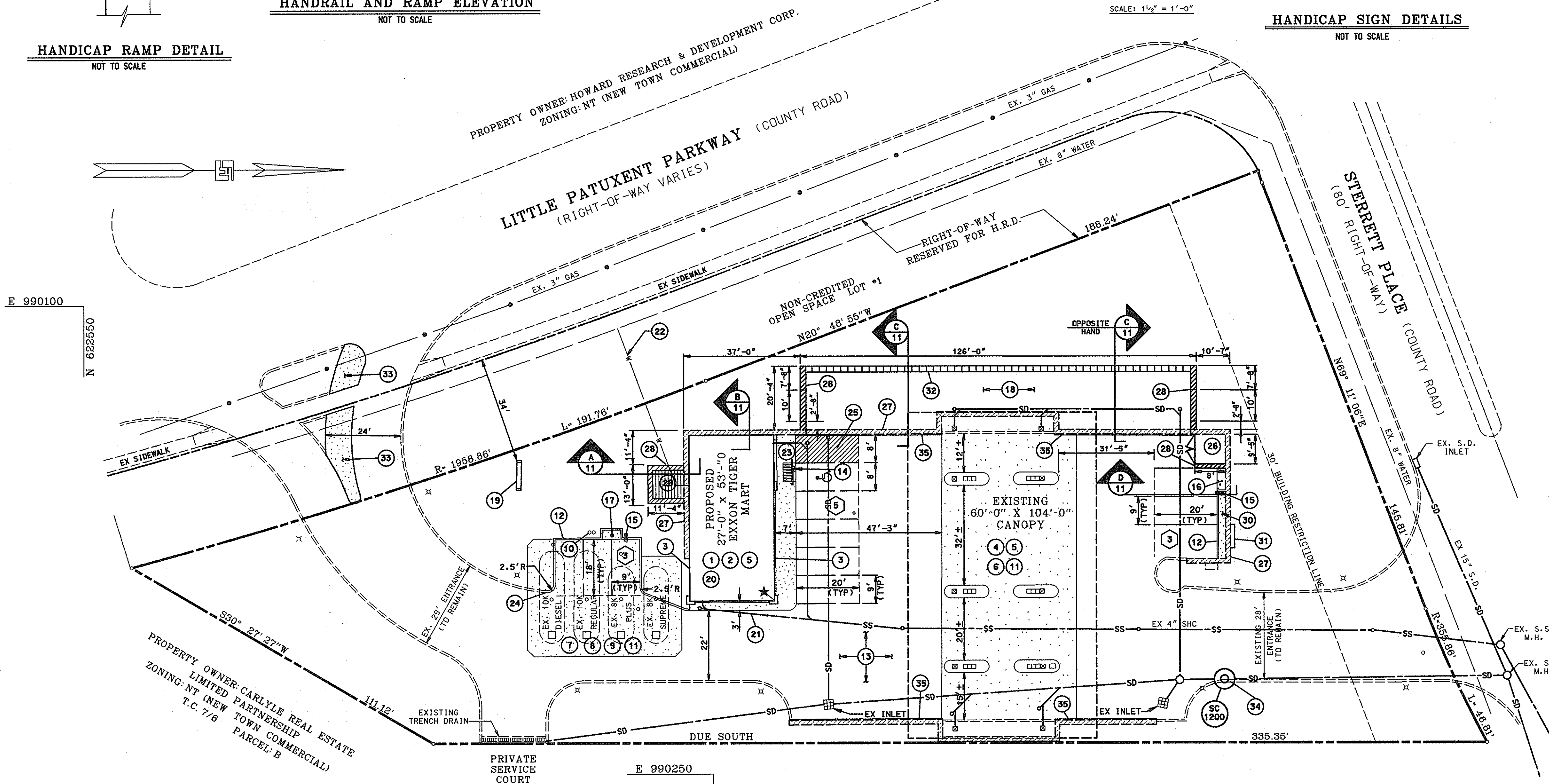
NOTE:
APPLY HANDICAP SIGNS TO SIGN PANELS 1" SPACE BETWEEN SIGNS WITH A 1" MARGIN AROUND SIGN PANEL.

GENERAL NOTES

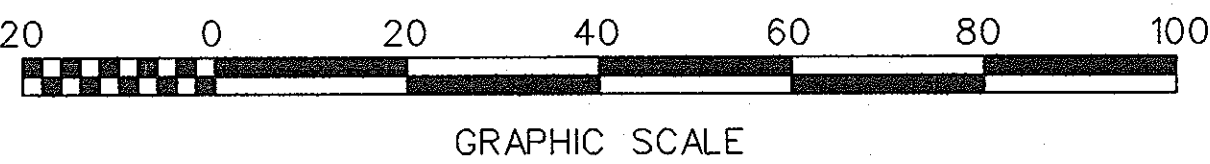
- B.S. - BUILDING SUPPLIER
- G.C. - GENERAL CONTRACTOR
- E. - EXXON
- O. - OTHER
- ★ - BUILDING ORIENTATION POINT
- 239- - EXISTING CONTOUR
- 239- - PROPOSED CONTOUR
- 239.6 - PROPOSED SPOT ELEVATION
- ⑫ - IMPROVEMENT ITEM
- ⑬ - PARKING SPACE QUANTITY
- ⑭ - CONCRETE (ON PLAN)
- ⑮ - EXISTING TO REMAIN

1. ALL UTILITY CONNECTIONS ARE TO BE AS PER LOCAL CODE BY G.C.
2. G.C. TO PROVIDE CONDUIT & WIRING TO ALL EXXON I.D. SIGNS & CONDUIT ONLY TO PUBLIC TELEPHONE BOOTH.
3. SITE PLAN SUPERSEDES ALL WORKING DRAWINGS.
4. UNLESS OTHERWISE NOTED, ALL PAINT TO BE FURNISHED BY G.C.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND CONSTRUCTION AS SHOWN ON PLANS UNLESS OTHERWISE NOTED.

ITEM NUMBER	FURNISHED BY	INSTALLED BY	DESCRIPTION	DRAWING NUMBER
1	BS	GC	BUILDING TYPE (27' X 53') TIGER MART W/3 PHASE 120/208 ELECTRIC	MADISON DWGS
2	BS	GC	BUILDING DOWNSPOUT DRAINS (X) UNDERGROUND () ABOVE GROUND	SHT 5 OF 11
3	E	GC	BUILDING SIGN	SHT 10 OF 11
CANOPY / ISLANDS				
4	E	GC	DISPENSING EQUIPMENT - (6) MFD'S W/ GRIND AND VAPOR VAC (3) PROP. GASOLINE, (3) RELOCATED GASOLINE, (1) RELOCATED DIESEL	MADISON DWGS 7500-1
5	E	GC	TRANSAC SYSTEM TOR-15 (2) REQUIRED	
6	GC	GC	CANOPY DOWNSPOUT DRAINS (EX UNDERGROUND TO REMAIN)	SHT 5 OF 11
YARD AREA / TANKS				
7	E	GC	TANKS FOR MOTOR FUEL (ALL EXISTING) (1) 8K SUPREME (ETR) STP W/ LEAK DETECTORS (1) 8K PLUS (ETR) (4) 1/2HP (ETR) (1) 10K REGULAR (ETR) (1) 10K DIESEL (ETR)	7066F, 1-5 7033 - 1
8	E	GC	ENVIROFLEX PRODUCT PIPING SYSTEM	
9	GC	GC	VAPOR RECOVERY SYSTEM (STAGE I & STAGE II)	
10	GC	GC	VENT RISER PIPE	
11	GC	GC	6" CONCRETE W/ #3 REBAR AT 18" O.C. EACH WAY	1090, 1-8
12	GC	GC	6" REINFORCED CONCRETE CURB W/16" GUTTER	
13	GC	GC	ASPHALT PAVING PER HOWARD COUNTY STANDARD P-2	SEE DTL THIS SHT
14	GC	GC	HANDICAPPED PARKING ONLY SIGN (MIN BOTTOM EDGE 7'-6") AND PENALTY SIGN (MIN BOTTOM EDGE 7'-0") PER ADA & LOCAL CODE	
15	E	GC	(2) NEW YARD LIGHTS (12" HIGH), FIXTURE & POLE (PREFINISHED)	1090, 1-8
16	GC	GC	AIR/WATER UNIT W/ INFORMATION SIGN	1090, 1-8
17	GC	GC	3'X6'X4" REINFORCED CONC MAT W/CONDUIT FOR PUBLIC TELEPHONES	1090, 1-8
18	GC	GC	LANDSCAPING	SHT 9 OF 11
19	E	GC	MAJOR I.D. SIGN 17.71 SOFT EXXON LOGO 24.86 SOFT PRICE	SHT 10 OF 11 1100-1
20	GC	GC	BUILDING ELECTRICAL & TELEPHONE SERVICE ROUTED UNDERGROUND PER EXXON'S FIELD ENGINEER & LOCAL COUNTY CODES	
21	GC	GC	EX. 4" SANITARY SEWER SERVICE - TIE INTO EXISTING SANITARY SEWER PER EXXON'S FIELD ENGINEER & PER LOCAL COUNTY CODES	SHT 5 OF 11
22	GC	GC	TIGER MART WATER SERVICE TIE ONTO EXISTING WATER SERVICE PER EXXON'S FIELD ENGINEER AND PER LOCAL COUNTY CODES.	
23	GC	GC	HANDICAP RAMP PER LOCAL, FED. & ADA CODES	SEE NOTES THIS SHT
24	GC	GC	MATCH EXISTING CURB & GUTTER AND/OR SIDEWALK GRADE & LOCATION	
25	GC	GC	HANDICAP PARKING SPACES PER LOCAL, FEDERAL AND ADA CODES	
26	GC	GC	TRASH ENCLOSURE (MODIFIED)	1090, 1-8
27	GC	GC	EX BRICK WALL (TO BE POWERED WASHED PER EXXON ENG.)	SHT 11 OF 11
28	GC	GC	PROP BRICK WALL (MATCH EX BRICK)	SHT 11 OF 11
29	GC	GC	10' X 10' HVAC FIT WITH METAL GRATE COVER	SHT 11 OF 11
30	GC	GC	6" CONC SIDEWALK W/ 6X6 W.W.M.	
31	GC	GC	"EXXON" I.D. SIGN (WALL MOUNTED)	SHT 10 OF 11
32	GC	GC	BRICK EDGING	SHT 9 OF 11
33	GC	GC	MODIFY EXISTING MEDIAN TO PROVIDE ROLL-OVER CURB	SEE NOTES THIS SHT
34	GC	GC	REPAIR CURB TO MATCH EXISTING	
35	GC	GC	EX. GUARDRAIL (TO BE REPAIRED AS NECESSARY PER EXXON ENG.)	



PAVING SECTION (HOWARD COUNTY STANDARD R-2.01 (P-2))
NOT TO SCALE



SDP-97-04
PLANNING BOARD APPROVAL

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE: NOV 21, 1996

DATE: _____ NUMBER: _____ REVISION DESCRIPTION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Michael P. ... 3/5/97 DATE

CHIEF-DEVELOPMENT ENGINEERING DIVISION

Richard Blood 3/11/97 DATE

CHIEF-DIVISION & LAND DEVELOPMENT

Joseph Smith 3/13/97 DATE

DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.

OWNER/DEVELOPER: **EXXON COMPANY, U.S.A.**
6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. MIKE SPECHT PHONE: (301)-513-7511

FREDERICK WARD ASSOCIATES INC.
ENGINEERS ARCHITECTS SURVEYORS
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090

12-10-96
DATE

STATE OF MARYLAND
TIMOTHY F. WHITTE
PROFESSIONAL ENGR. NO. 19155

FWA JOB NUMBER: 93378 FWA DRAWING FILE NAME: PESITE.DGN

AREA: COLUMBIA TOWN CENTER SECTION 7 AREA 6 TAX MAP 30 PARCEL 290 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

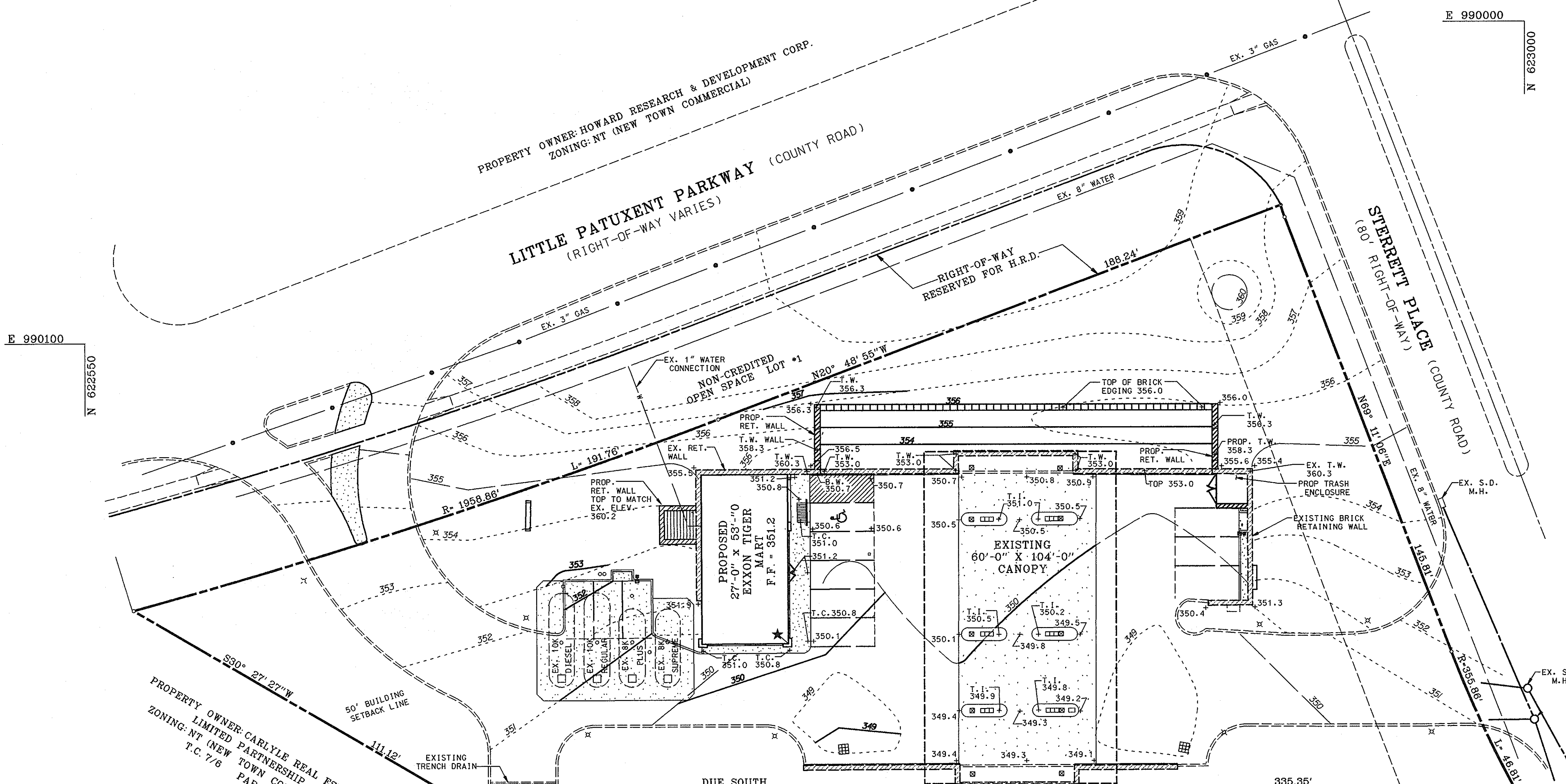
TITLE: **SITE LAYOUT PLAN**
FOR AN EXXON STATION AT
10141 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

DESIGN BY: RBM SCALE: 1" = 20' PROJECT NO.: 93378
DRAWN BY: MSM/KDN/CP DATE: 9/11/96 DRAWING NUMBER
CHECKED BY: TFW APPROVED: 03 OF 11

FWA FILE NAME: M:\PROJECTS\93378\ENGR\PE SITE.DGN

LEGEND

- 261 --- EXISTING CONTOUR
- 263 --- PROPOSED CONTOUR
- + 232.95 PROPOSED SPOT ELEVATION
- + EX 232.95 EXISTING SPOT ELEVATION
- PROPOSED FLOW ARROWS
- T.W. 229.8+ TOP OF WALL ELEVATION
- T.I. 229.8+ TOP OF ISLAND ELEVATION



E 990100
N 622550

E 990000
N 623000

PROPERTY OWNER: HOWARD RESEARCH & DEVELOPMENT CORP.
ZONING: NT (NEW TOWN COMMERCIAL)

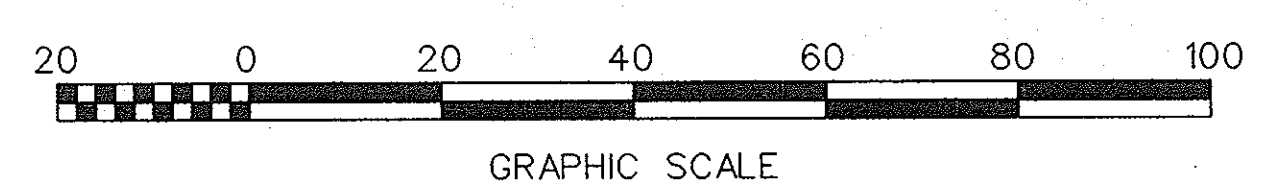
LITTLE PATUXENT PARKWAY (COUNTY ROAD)
(RIGHT-OF-WAY VARIES)

STERRETT PLACE (COUNTY ROAD)
(80' RIGHT-OF-WAY)

PROPERTY OWNER: CARLYLE REAL ESTATE LIMITED PARTNERSHIP
ZONING: NT (NEW TOWN COMMERCIAL)
T.C. 7/6 PARCEL: B

PRIVATE SERVICE COURT
E 990250
N 622750

CLARK BUILDING
PROPERTY OWNER: PROPERTY CAPITAL TRUST
ZONING: NT (NEW TOWN COMMERCIAL)
T.C. 7/6 PARCEL: G



SDP-97-04
PLANNING BOARD APPROVAL
APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: NOV 21, 1996
CDH

12/10/96
DATE

TIMOTHY P. WHITTIE
PROFESSIONAL ENGR. NO. 19155

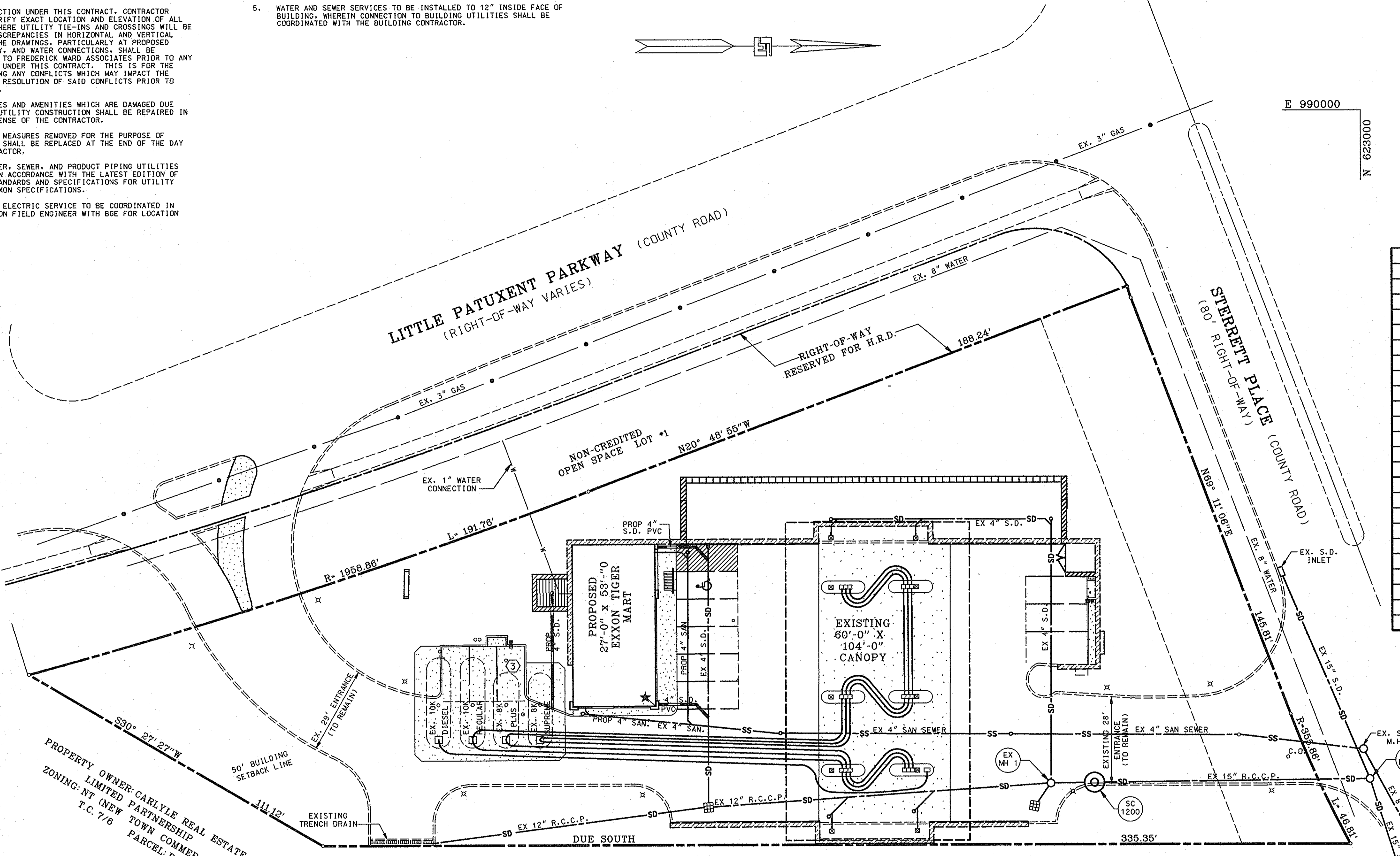
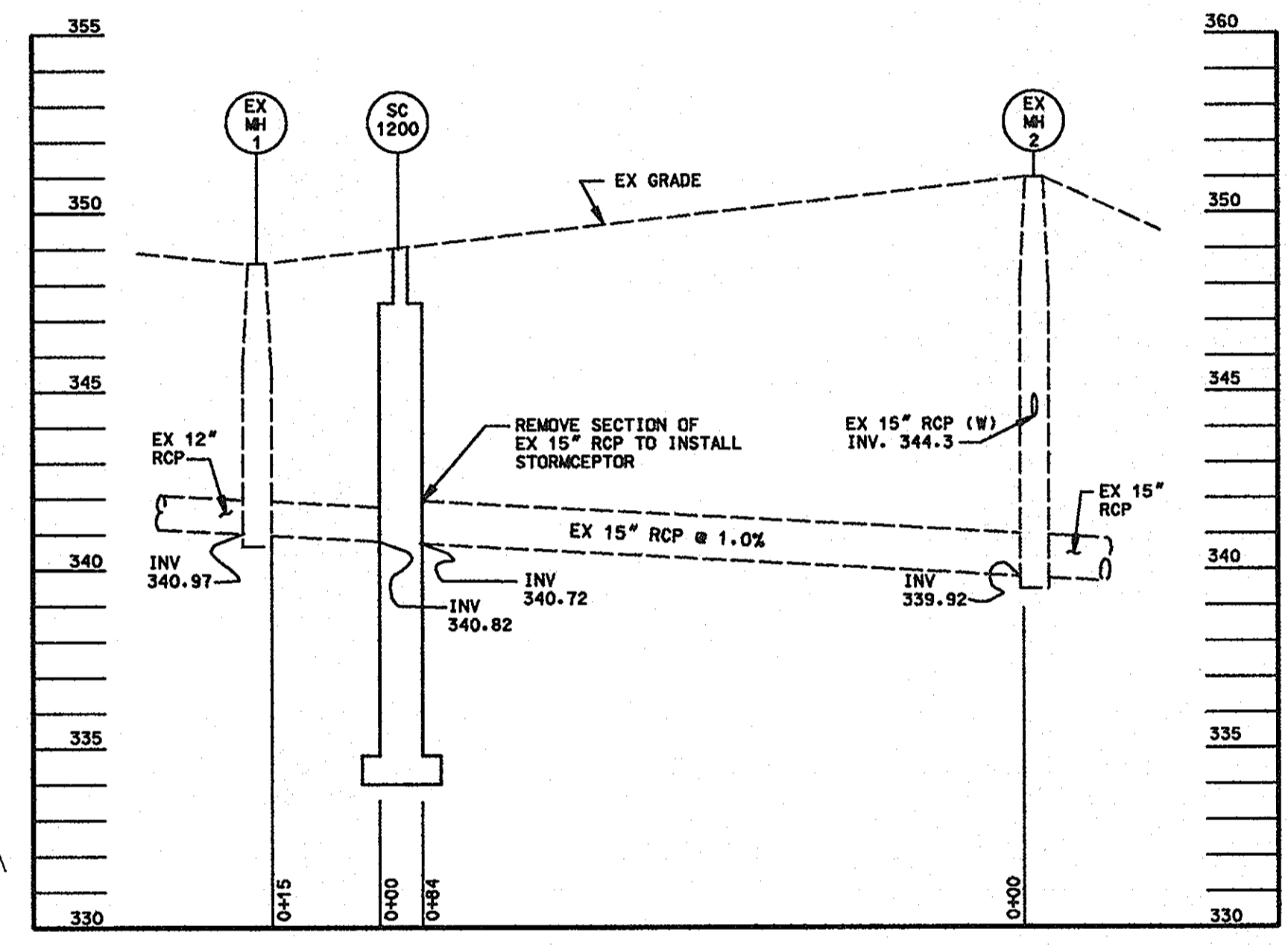
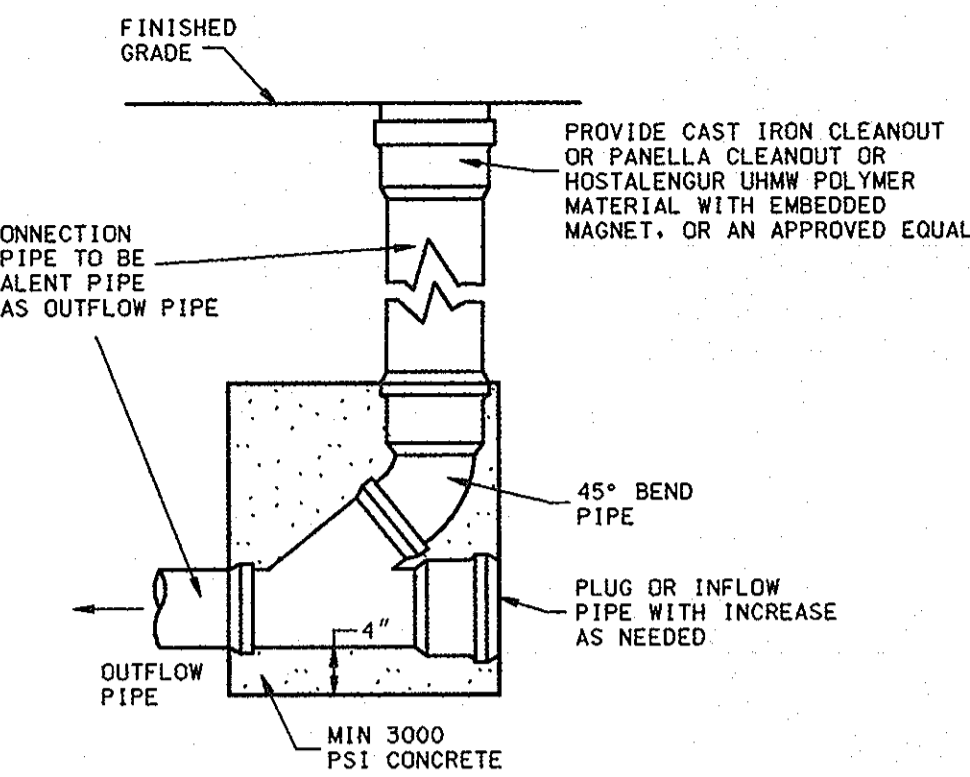
DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
<i>[Signature]</i>	3/5/97	DATE
CHIEF-DEVELOPMENT ENGINEERING DIVISION	<i>[Signature]</i>	DATE
CHIEF-DIVISION & LAND DEVELOPMENT	3/11/97	DATE
DIRECTOR	3/13/97	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
<i>[Signature]</i>	3-10-97	DATE
COUNTY HEALTH OFFICER	<i>[Signature]</i>	DATE
THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.		
<i>[Signature]</i>	3/14/97	DATE
HOWARD S.C.D.		
OWNER/DEVELOPER	EXXON COMPANY, U.S.A. 6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. MIKE SPECHT PHONE: (301)-513-7511	
	FREDERICK WARD ASSOCIATES INC. ENGINEERS ARCHITECTS SURVEYORS 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2090	
FWA JOB NUMBER: 93378	FWA DRAWING FILE NAME: PEGRAD.DGN	
AREA	COLUMBIA TOWN CENTER SECTION 7 AREA 6 TAX MAP 30 PARCEL 290 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	SITE GRADING PLAN FOR AN EXXON STATION AT 10141 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	
DESIGN BY: RBM	SCALE: 1" = 20'	PROJECT NO.: 93378
DRAWN BY: MSM/KDH	DATE: 9/11/96	DRAWING NUMBER
CHECKED BY: TFW	APPROVED:	04 OF 11

GENERAL NOTES FOR UTILITY CONSTRUCTION

1. INFORMATION CONCERNING THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES WAS TAKEN FROM RECORDS PROVIDED BY UTILITY COMPANIES AND HOWARD COUNTY DPW. THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. FREDERICK WARD ASSOCIATES, INC. MAKES NO GUARANTEE AS TO THE COMPLETENESS OR ACCURACY OF UTILITIES AND THEIR LOCATIONS, SHOWN OR NOT SHOWN, ON THESE DRAWINGS. SUCH INFORMATION PROVIDED ON THESE PLANS IS FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE CONTRACTOR SHALL VERIFY THE PRESENCE, ABSENCE, AND LOCATIONS OF ALL UTILITIES, TO HIS SATISFACTION, PRIOR TO ANY WORK UNDER THIS CONTRACT.
2. THE CONTRACTOR IS TO NOTIFY MISS UTILITY AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION AND EXCAVATION. PHONE 1-800-257-7777.
3. PRIOR TO ANY CONSTRUCTION UNDER THIS CONTRACT, CONTRACTOR SHALL TEST PIT TO VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WHERE UTILITY TIE-INS AND CROSSINGS WILL BE ENCOUNTERED. ANY DISCREPANCIES IN HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DRAWINGS, PARTICULARLY AT PROPOSED STORM DRAIN, SANITARY, AND WATER CONNECTIONS, SHALL BE IMMEDIATELY REPORTED TO FREDERICK WARD ASSOCIATES PRIOR TO ANY CONTINUATION OF WORK UNDER THIS CONTRACT. THIS IS FOR THE PURPOSE OF IDENTIFYING ANY CONFLICTS WHICH MAY IMPACT THE PROPOSED DESIGN, AND RESOLUTION OF SAID CONFLICTS PRIOR TO CONTINUATION OF WORK.
4. ANY EXISTING UTILITIES AND AMENITIES WHICH ARE DAMAGED DUE TO TEST PITTING AND UTILITY CONSTRUCTION SHALL BE REPAIRED IN KIND AT THE SOLE EXPENSE OF THE CONTRACTOR.
5. ANY SEDIMENT CONTROL MEASURES REMOVED FOR THE PURPOSE OF UTILITY CONSTRUCTION SHALL BE REPLACED AT THE END OF THE DAY BY THE UTILITY CONTRACTOR.
6. ALL STORM DRAIN, WATER, SEWER, AND PRODUCT PIPING UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION, AND EXXON SPECIFICATIONS.
7. ANY PROPOSED GAS AND ELECTRIC SERVICE TO BE COORDINATED IN THE FIELD BY THE EXXON FIELD ENGINEER WITH BGE FOR LOCATION AND SIZE OF SERVICE.

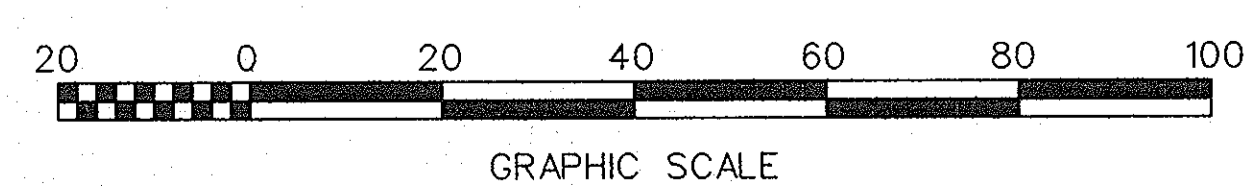
GENERAL NOTES FOR WATER AND SEWER CONSTRUCTION

1. WATER METER LID AND SANITARY CLEANOUT TOPS TO BE ADJUSTED TO MATCH CROSS-PITCH AND SLOPE OF PROPOSED GRADES. CLEANOUT TOPS TO BE IDENTIFIED AS SANITARY CLEANOUTS, THREADED, AND CONTAIN COUNTERSUNK PLUGS.
2. UTILITIES SHALL MAINTAIN A MINIMUM 12-INCH CLEARANCE WHEN CROSSING EXISTING AND PROPOSED UTILITIES ON AND OFF SITE.
3. WATER SERVICES SHALL HAVE A MINIMUM 3.5 FOOT COVER OVER CROWN OF PIPE.
4. WATER SERVICE SHALL BE TYPE K COPPER TUBING. SANITARY SEWER PIPE SHALL BE SDR 26.
5. WATER AND SEWER SERVICES TO BE INSTALLED TO 12" INSIDE FACE OF BUILDING, WHEREIN CONNECTION TO BUILDING UTILITIES SHALL BE COORDINATED WITH THE BUILDING CONTRACTOR.



LEGEND

	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	PROPOSED FLOW ARROWS
	TOP GRATE ELEVATION
	TOP OF LID ELEVATION



SDP-97-04
PLANNING BOARD APPROVAL

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: NOV 21, 1996
LOH

DATE	NUMBER	REVISION DESCRIPTION
3/5/97		DATE
3/1/97		DATE
3/13/97		DATE
3-16-97		DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.

OWNER/DEVELOPER: **EXXON COMPANY, U.S.A.**
6301 IVY LANE
SUITE 700
GREENBELT, MARYLAND 20770
ATTN: MR. MIKE SPECHT
PHONE: (301)-513-7511

ENGINEERS ARCHITECTS SURVEYORS
FREDERICK WARD ASSOCIATES INC.
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2090

FWA JOB NUMBER: 93378 FWA DRAWING FILE NAME: PEUTLIS.DGN

AREA: COLUMBIA TOWN CENTER
SECTION 7 AREA 6
TAX MAP 30 PARCEL 290
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: **SITE UTILITY AND PIPING PLAN**
FOR AN EXXON STATION AT
10141 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21044

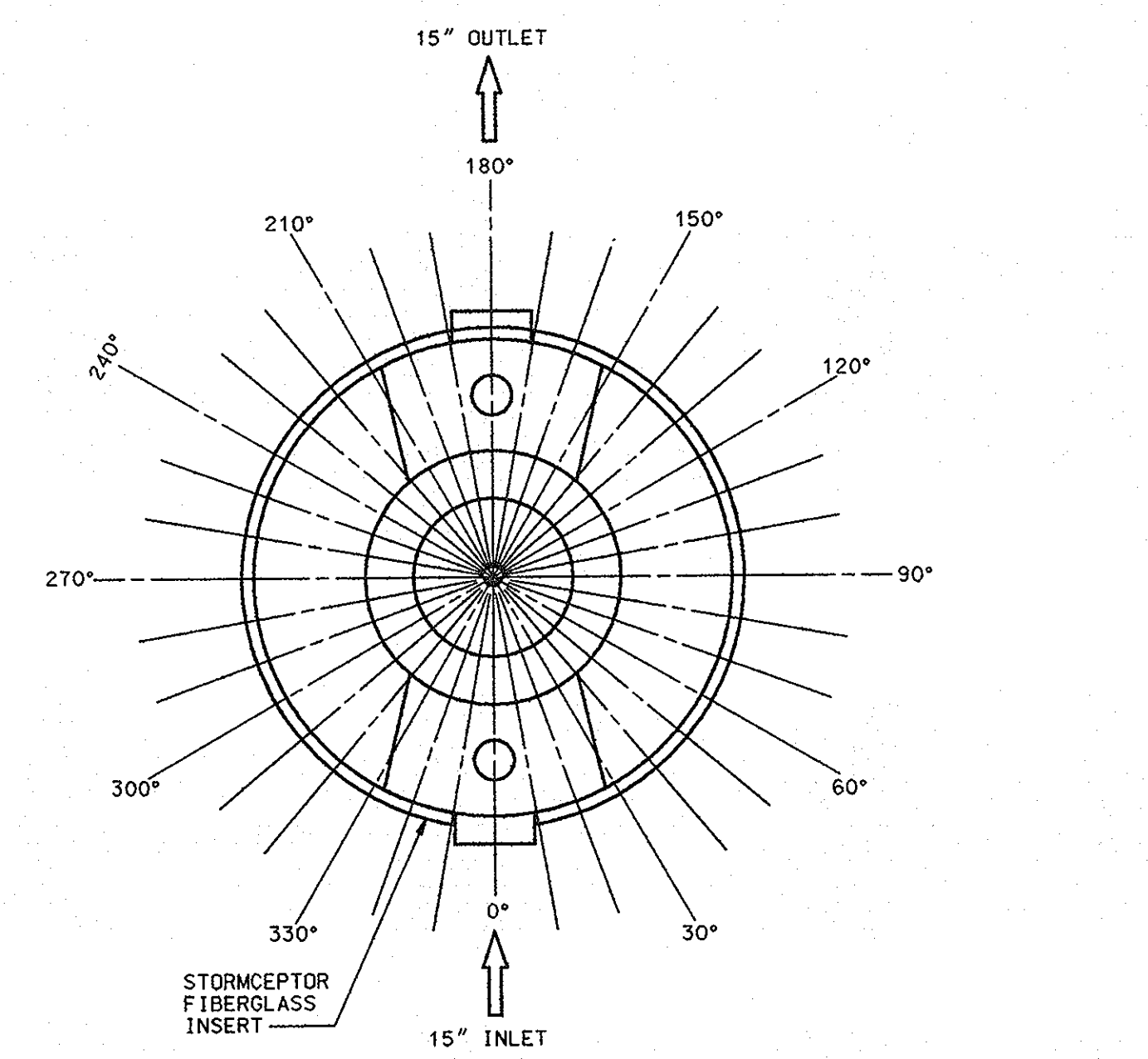
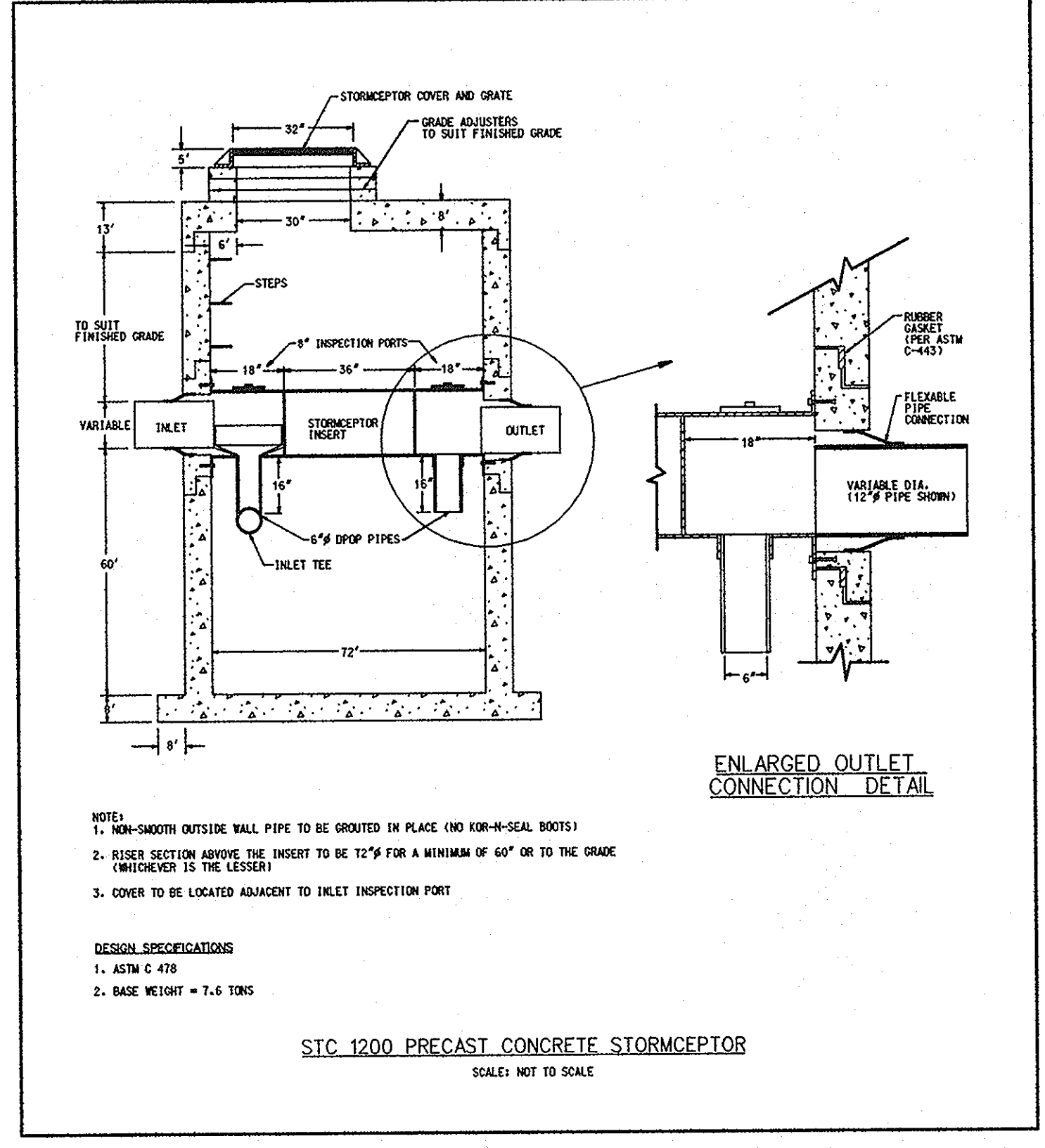
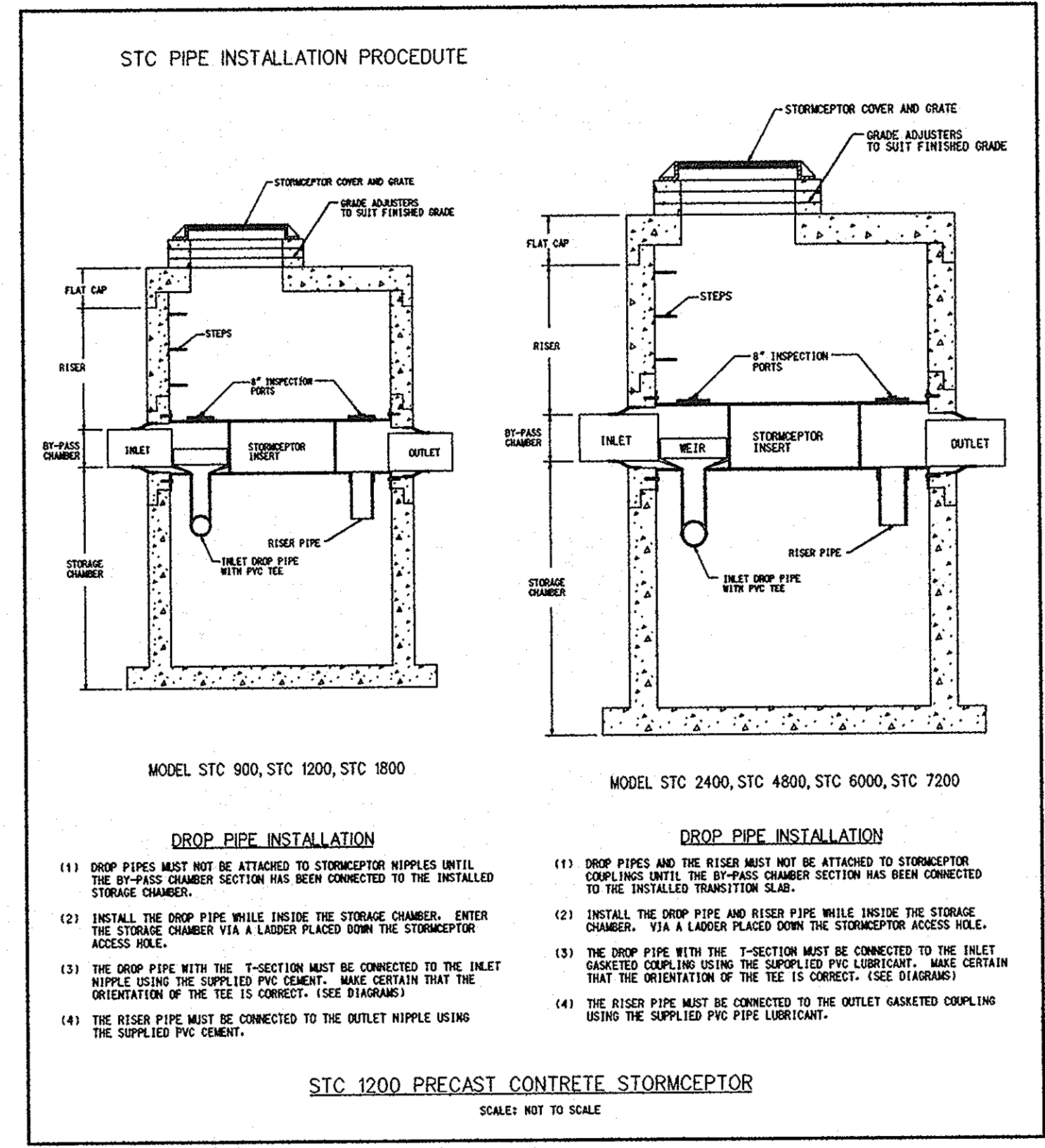
DESIGN BY: RBM SCALE: 1" = 20' PROJECT NO.: 93378
DRAWN BY: MSM/KDN DATE: 9/24/96 DRAWING NUMBER
CHECKED BY: TFW APPROVED: 05 OF 11

12-10-96
DATE

STATE OF MARYLAND
PROFESSIONAL ENGINEER
NO. 19155

GENERAL NOTES

- SILT AND DEBRIS SHALL NOT BE ALLOWED TO ENTER THE STRUCTURES UNTIL CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.
 - ALL OPENINGS TO STRUCTURES SHALL BE PROTECTED WITH THE APPROPRIATE SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
 - VARIOUS TYPES OF EQUIPMENT ARE AVAILABLE COMMERCIALY FOR THE CLEANOUT OF SYSTEMS. THE MOST COMMONLY USED EQUIPMENT AND TECHNIQUES USED FOR CLEANING SUBSURFACE SYSTEMS ARE VACUUM PUMP & WATERJET SPRAY. BOTH SYSTEMS ARE GENERALLY MOUNTED ON A SELF-CONTAINED VEHICLE AND CAN EFFECTIVELY REMOVE STONES, LEAVES, LITTER, AND SEDIMENT DEPOSITS FROM SUMPS AND CHAMBERS.
- WATER QUALITY MAINTENANCE NOTES**
- INSPECT THE STORMCEPTOR ON A MONTHLY BASIS AND NOTE SEDIMENT AND OIL ACCUMULATIONS. MORE FREQUENT INSPECTIONS ARE APPROPRIATE WHERE OIL SPILLS OCCUR REGULARLY. STORMCEPTOR CANADA INC. CAN PROVIDE ADVICE ON SAMPLING EQUIPMENT.
 - SEDIMENT SHOULD BE REMOVED ANNUALLY, OR WHENEVER THE ACCUMULATION REACHES 50% OF THE OPERATING DEPTH, FROM BASE TO DRAIN INVERT. MORE FREQUENT REMOVAL OF SEDIMENTS MAY BE NECESSARY IN AREAS OF NEW CONSTRUCTION, OR WHERE VEGETATION HAS NOT YET BEEN ESTABLISHED.
 - VACUUM TRUCKS ARE USED TO REMOVE THE SEDIMENT AND OIL FROM THE STORMCEPTOR TREATMENT CHAMBER. OIL LEVELS GREATER THAN 2.5 CM SHOULD BE REMOVED IMMEDIATELY BY A LICENSED WASTE MANAGEMENT FIRM, AND SIGNIFICANT SPILLS MUST BE REPORTED TO THE APPROPRIATE REGULATORY AGENCY.
 - THE PIPES AND STRUCTURAL PARTS SHALL BE CLEANED AND REPAIRED AS NEEDED. REPAIR AND/OR REPLACEMENT OF PARTS SHALL BE IN KIND.
 - ALL MAINTENANCE SHALL BE PERFORMED BY THE OWNER OR BY THE OWNER'S REPRESENTATIVE AT THE OWNER'S EXPENSE.
 - MINIMIZE SURFACE EROSION FROM PERVIOUS SURFACES AT ALL TIMES; MAINTAIN GRASS, SOY, AND/OR MULCH COVERAGE UPON LANDSCAPINGS.
 - REMOVE DEBRIS ON TOP OF INLET GRATES AFTER EVERY RAINFALL.
 - AT INTERVALS NOT EXCEEDING 1 YEAR, OR AS NEEDED, REMOVE ALL GRASS AND OILS, SILTS AND AGGREGATES, AND DEBRIS FROM ALL INLETS AND STRUCTURES.
 - THE DISPOSAL OF THE LIQUID AND SOLID MATTER SHOULD BE AS FOLLOWS:
 - ALL LIQUID MATERIAL IN THE SEPARATOR INLET SHALL BE PUMPED INTO A SUITABLE TANK TRUCK AND DISPOSED OF AT AN APPROVED SANITARY DISTRICT DISCHARGE MANHOLE OR BE TAKEN TO AN APPROVED SEWAGE TREATMENT PLANT FOR DISCHARGE.
 - THE SOLID MATERIAL SHALL BE DELIVERED TO AN APPROVED SANITARY LANDFILL.



STORMCEPTOR INSERT OUTLET LOCATION
NOT TO SCALE

NOTES

- DRAINAGE AREA TO STORMCEPTOR = 0.78 AC
- PROPOSED STORMCEPTOR INLET PIPE = 15" RCP
- PROPOSED STORMCEPTOR OUTLET PIPE = 15" RCP
- THE FIRST 1/4 OF RUNOFF FROM ALL IMPERVIOUS AREA WILL BE TREATED THROUGH THE STORMCEPTOR
- IMPERVIOUS AREA TO STORMCEPTOR 0.53 AC
- $Q_p 0.5 = 0.01 \times AM \times 0.5 \times FP$
- $Q_p 0.5 = (1010) \times (1.53/640) \times (.5) \times (1)$
- $Q_p 0.5 = 0.41 cfs$
- $Q_p 0.5 = 187.69 gpm$

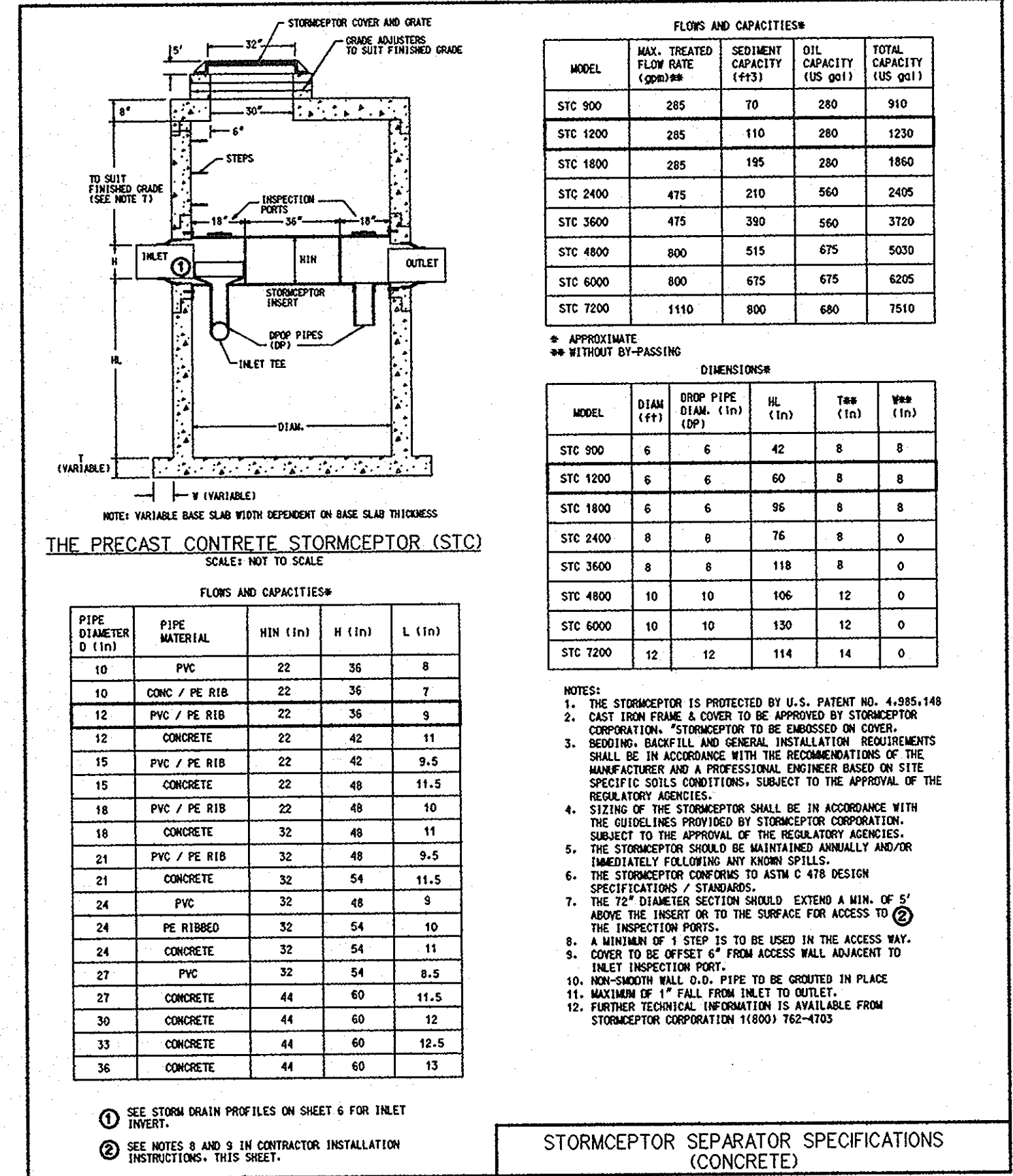
MODEL	MAXIMUM TREATED DRAINAGE (gpm)	TOTAL CAPACITY GAL. (LITRES)	OIL HOLDING CAPACITY GAL. (LITRES)	SEDIMENT HOLDING CAPACITY GAL. (LITRE)	DEPTH INCHES/MM D	TANK BODY INCHES/MM (TDIA)
STC-L1200	238/18.0	1000/4545	255/1023	675/2068	(83/2108)+Y	72/1830

REQUIRED PROCEDURES AND INSPECTIONS FOR INGROUND WATER QUALITY FACILITY

- THE FOLLOWING INSPECTIONS ARE REQUIRED DURING CONSTRUCTION (ADDITIONAL INSPECTIONS MAY BE REQUIRED AND NOTED BY THE INSPECTOR.)
- PRECONSTRUCTION MEETING: AN OPPORTUNITY TO REVIEW SITE PLANS, DISCUSS THE PURPOSE OF THE FACILITY AND TO ANSWER QUESTIONS REGARDING CONSTRUCTION AND/OR INSPECTION PROCEDURES.
 - CONSTRUCTION: INSPECTION(S) WILL BE MADE DURING THE CONSTRUCTION OF THE FACILITY TO ENSURE ACCORDANCE WITH THE PLANS. SPECIFIC INSPECTION REQUIREMENTS WILL BE DETERMINED AT THE PRECONSTRUCTION MEETING. INSPECTIONS TO BE MADE AT, BUT NOT LIMITED TO, THE FOLLOWING INSTALLATION STEPS:
 - INSTALLATION OF SUBGRADE AND SUBBASE
 - FINAL INSPECTION

CONTRACTOR INSTALLATION INSTRUCTION'S PRECAST CONCRETE STORMCEPTOR

- STAKE-OUT THE LOCATION OF THE STORMCEPTOR AND EXCAVATE HOLE. EXCAVATE ADEQUATE SPACE TO CONNECT INLET PIPES TO UNIT. INSTALL A 12" DEEP (OR AS REQUIRED) LAYER OF COMPACTED 1.5% STANDARD PROCTOR DENSITY OR LOCAL AND STATE REQUIREMENTS, AS DIRECTED BY THE INSPECTOR) AGGREGATE SUBBASE AT BOTTOM OF EXCAVATION. INSTALL MULE OR SHORING, AS NEEDED.
- CHECK ELEVATION OF UNIT BY MEASURING ITS SECTIONS FROM BASE OF THE STORAGE CHAMBER (BOTTOM OF UNIT'S SLAB) TO THE INVERT OF STORMCEPTOR BYPASS CHAMBER INLET ELEVATION (FIBERGLASS INSERT). SUBTRACT THIS DISTANCE FROM DESIGN INVERT ELEVATION TO DETERMINE TOP OF SUBBASE ELEVATION. CHECK ELEVATION OF INSTALLED SUBBASE AND ADJUST AS NEEDED. SECURE INSPECTOR APPROVAL OF SUBGRADE AND SUBBASE.
- INSTALL STORAGE CHAMBER. INSTALL SCREW INSERTS INTO BASE OF STORAGE CHAMBER. ATTACH CABLES OR CHAINS TO ALL 3 LIFTING LUGS ON THE BASE SLAB. USING LARGE EQUIPMENT OR CRANE LIFT AND PLACE THE BASE SECTION OF THE STORAGE CHAMBER IN THE EXCAVATED HOLE ON THE SUBBASE. MAKE SURE THAT THE BASE IS LEVEL. SPECIFIC ALIGNMENT OF THIS PART IS NOT REQUIRED. INSTALL RUBBER GASKET ON BASE UNIT AND COAT WITH LUBRICATING GREASE (PROVIDED IN SHIPMENT). IF NOT PRELUBRICATED, INSTALL ADDITIONAL STORAGE CHAMBER SECTIONS, AS REQUIRED (PROCEDURE IS SAME AS STEP 8).
- INSTALL REDUCING SLAB. (STORMCEPTOR MODELS STC-2400, STC-3600, STC-4800, STC-6000 AND STC-7200) CHECK THAT SECTION IS SET FLUSH, LEVEL AND IS AT THE PROPER ELEVATION. INSTALL RUBBER GASKET ON THE TRANSITION SLAB SPIGOT AND COAT WITH LUBRICATING GREASE (PROVIDED IN SHIPMENT).
- INSTALL BYPASS CHAMBER OF STORMCEPTOR WITH FACTORY INSTALLED STORMCEPTOR INSERT. LIFT BYPASS SECTION AND INSTALL. WHILE CHECKING ALIGNMENT AND GRADE OF INLET AND OUTLET DRAINAGE PIPES. CHECK TO MAKE SURE THE BYPASS CHAMBER IS SET FLUSH, LEVEL AND IS AT THE PROPER ELEVATION. THE BYPASS CHAMBER MUST BE ORIENTED SUCH THAT INLET PIPE DISCHARGES INTO THE V-SHAPED FIBERGLASS WEIRS (INSIDE INSERT). INSTALL RUBBER GASKET ON TOP OF BYPASS SECTION AND COAT WITH LUBRICATING GREASE. IF NOT PRELUBRICATED.
- INSTALL STORMCEPTOR DROP PIPES ACCORDING TO STC PIPE INSTALLATION PROCEDURE.
- INSTALL RISER SECTION. LIFT RISER SECTION AND INSTALL. WHILE CHECKING THAT SECTION IS SET FLUSH AND IS AT PROPER ELEVATION AND THAT UNIT IS LEVEL. SPECIFIC ALIGNMENT OF THIS PART IS REQUIRED IF STEPS) ARE INCLUDED. ALIGN STEPS ABOVE INLET INSPECTION PORT. NOTE: FOR SHALLOW INSTALLATIONS THIS SECTION MAY NOT BE REQUIRED.
- INSTALL TOP CAP WITH OPENING FOR STORMCEPTOR COVER. CONNECT INLET AND OUTLET STORM DRAIN PIPES WITH INSTALL INLET AND OUTLET STORM DRAIN PIPES. CONNECT INLET AND OUTLET STORM DRAIN PIPES WITH FLEXIBLE BOOTS (WHEN PROVIDED) AND WITH NON-SHRINKING GROUT WHEN NO FLEXIBLE BOOTS ARE PROVIDED. THE INVERT OF THE INLET AND OUTLET PIPE IS TO MATCH WITH THE INVERT OF THE STORMCEPTOR INSERT. FLEXIBLE BOOT INSTALLATION PROCEDURES: CENTER THE PIPE IN THE BOOT OPENING. LUBRICATE THE OUTSIDE OF THE PIPE AND/OR THE INSIDE OF THE BOOT IF THE PIPE OUTSIDE DIAMETER IS THE SAME AS THE INSIDE DIAMETER OF THE BOOT. POSITION THE PIPE CLAMP IN THE GROOVE OF THE BOOT WITH THE SCREW AT THE TOP. TIGHTEN THE PIPE CLAMP SCREW TO 60 INCH POUNDS. IF THE PIPE IS MUCH SMALLER THAN THE BOOT, LIFT THE BOOT SUCH THAT IT CONTACTS THE BOTTOM OF THE PIPE WHILE TIGHTENING THE CLAMP TO ENSURE EVEN CONTRACTION OF THE RUBBER. MOVE THE PIPE HORIZONTALLY AND/OR VERTICALLY TO BRING IT TO GRADE.
- THE STORMCEPTOR SHOULD BE PUMPED OUT WHEN THE SEDIMENT CONTROL MEASURES ARE REMOVED (SITE PERMANENTLY STABILIZED).
- FINAL INSPECTION.



Stormceptor® Order Request Form

Contractor Information

Name: _____ Office Use Only
 Address: _____ Order# _____
 City: _____ Date: _____
 State: _____ Internal Sale _____
 Zip Code: _____
 Contact: _____
 Phone: _____
 Fax: _____

Owner Information

Name: _____
 Phone: _____
 Fax: _____

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

Stormceptor® Model

STA: STC-L

900 3600
 1200 4800
 1800 6000
 2400 7200

Insert Size

22"
 32"
 44"
 Custom

Manhole: _____
 Top Elevation (ft): _____
 Inlet Pipe Invert (ft): _____
 Outlet Pipe Invert (ft): _____
 Pipe Type: _____
 Pipe Inside Diameter (in) [ID]: _____
 Pipe Outside Diameter (in) [OD]: _____

Project Name: _____
 Approximate time frame until required delivery (weeks): _____
 Delivery Address: Street _____ State _____ Zip Code _____
 Designer Company: _____ Phone: _____ Fax: _____

Please fax this sheet back to Hydro Conduit/Virginia Precast at (804) 798-3426 Attn: Dave Brinser/Bryant Lowery (Phone: 1-800-999-2278)

For credit information/applications contact Carole Broadus at (804) 798-6088
 For Technical Assistance Please Call Stormceptor Corporation at (301) 762-8361 or toll free at 1-800-762-4763

09/12/95

STORMCEPTOR SEPARATOR SPECIFICATIONS (CONCRETE)

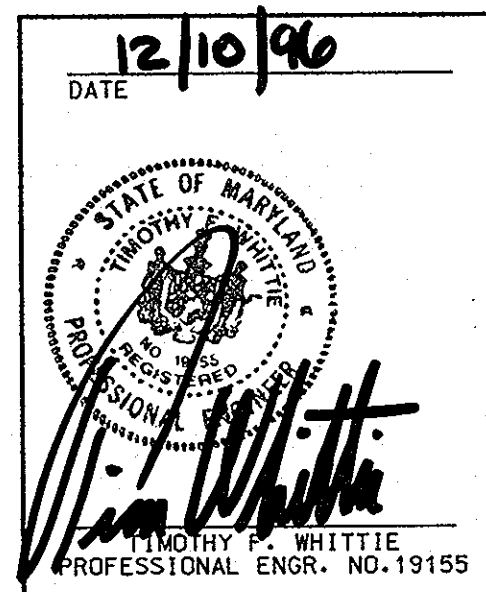
PIPE DIAMETER D (in)	PIPE MATERIAL	HIN (in)	H (in)	L (in)
10	PVC	22	36	8
12	CONC / PE RIB	22	36	7
15	PVC / PE RIB	22	42	9.5
18	CONCRETE	22	48	11.5
18	PVC / PE RIB	32	48	10
18	CONCRETE	32	48	11
21	PVC / PE RIB	32	48	9.5
21	CONCRETE	32	54	11.5
24	PVC	32	48	9
24	PE RIBBED	32	54	10
24	CONCRETE	32	54	11
27	PVC	32	54	8.5
27	CONCRETE	44	60	11.5
30	CONCRETE	44	60	12
33	CONCRETE	44	60	12.5
36	CONCRETE	44	60	13

SEQUENCE OF CONSTRUCTION AND INSPECTOR'S CHECK-OFF LIST FOR SWM FACILITIES

STAGE	DEVELOPER'S/ENGINEER APPROVAL	INSPECTOR'S APPROVAL
	INITIALS DATE	INITIALS DATE
1. PRE-CONSTRUCTION MEETING *		
3. SITE IS PERMANENTLY STABILIZED, SEDIMENT CONTROL MEASURES REMOVED AND ALL SEDIMENT AND DEBRIS REMOVED FROM THE STRUCTURE. *		
4. FINAL INSPECTION. *		

NOTE: SEE CONSTRUCTION SPECIFICATIONS FOR DETAILED REQUIREMENTS.
 * MANDATORY NOTIFICATION/APPROVAL OF INSPECTOR PRIOR TO PROCEEDING WITH NEXT STAGE.

4035M-4 (REV 4-99)



SDP-97-04
PLANNING BOARD APPROVAL

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: NOV 21, 1995

FREDERICK WARD ASSOCIATES INC.
ENGINEERS ARCHITECTS SURVEYORS
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410) 879-2090

COLUMBIA TOWN CENTER
SECTION 7 AREA 6
TAX MAP 30 PARCEL 290
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

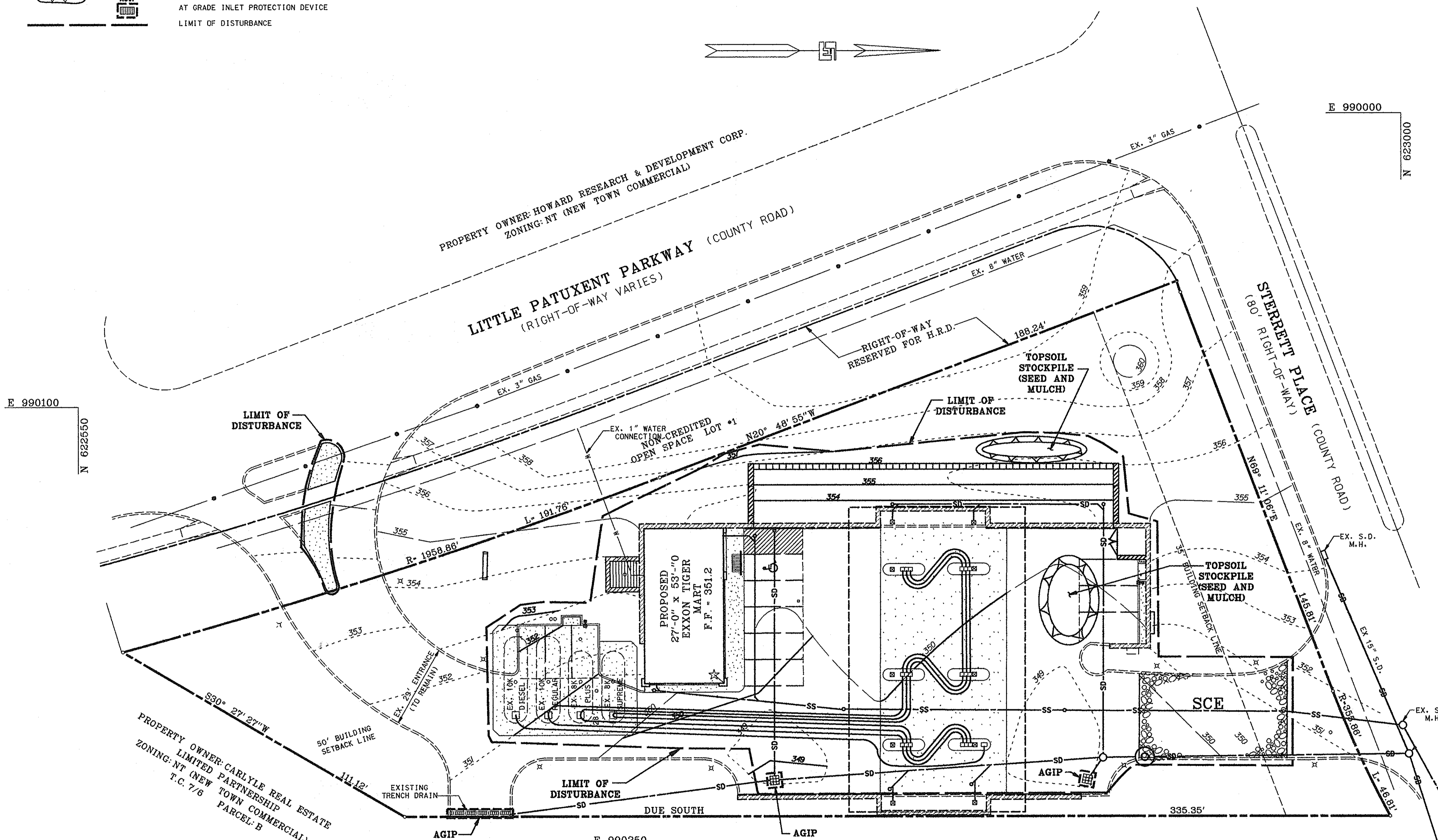
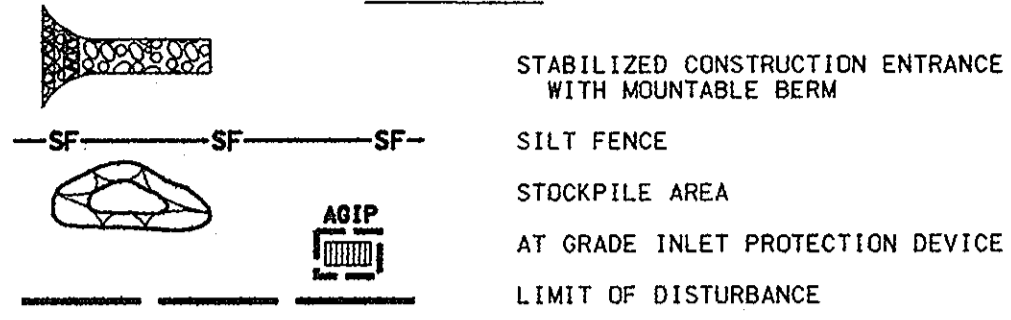
TITLE: STORMCEPTOR NOTES AND DETAILS
FOR AN EXON STATION AT
10141 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21044

DESIGN BY: RBM SCALE: 1" = 20' PROJECT NO.: 93378
 DRAWN BY: MSM/KON DATE: 9/11/96 DRAWING NUMBER
 CHECKED BY: TFM APPROVED: 06 OF 11

SEQUENCE OF OPERATION

1. OBTAIN HOWARD COUNTY GRADING PERMIT.
2. NOTIFY HOWARD COUNTY AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
3. WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR, INSTALL SEDIMENT CONTROL DEVICES. (WEEK 1)
4. REMOVE PAVED FEATURES AND SITE AMENITIES, AS INDICATED ON THE DEMOLITION PLAN TO AN APPROVED LOCATION. STRIP AND STOCKPILE TOPSOIL. (WEEK 2)
5. INSTALL UTILITIES. (WEEK 3)
6. INSTALL TIGER MART AND MPD'S. CONSTRUCT RETAINING WALLS. (WEEK 5 - 10)
7. INSTALL CURB AND GUTTER, BASE AND PAVING. FINE GRADE SITE. (WEEK 10)
8. INSTALL LANDSCAPING AND STABILIZE ANY REMAINING DISTURBED AREAS. (WEEK 11)
9. WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR REMOVE SEDIMENT CONTROL DEVICES. (WEEK 12)

LEGEND



E 990100
N 622550

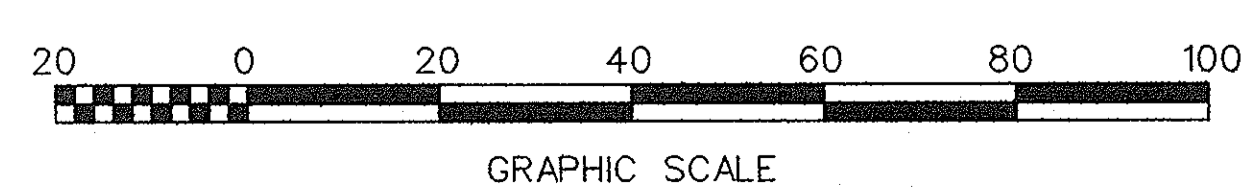
E 990000
N 623000

PROPERTY OWNER: CARLYLE REAL ESTATE LIMITED PARTNERSHIP
ZONING: NT (NEW TOWN COMMERCIAL)
T.C. 7/6 PARCEL B

PROPERTY OWNER: HOWARD RESEARCH & DEVELOPMENT CORP.
ZONING: NT (NEW TOWN COMMERCIAL)

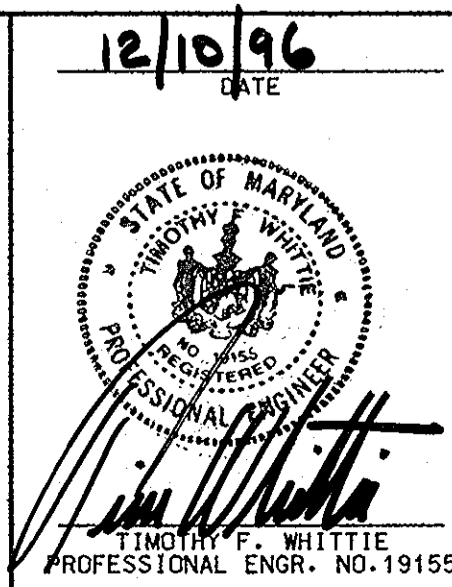
ESTIMATE OF SEDIMENT CONTROL QUANTITIES

STABILIZED CONSTR. ENTR. : 1 EA
INLET PROTECTION : 3 EA
STABILIZATION : 2,520 S.F.
NOTE : THESE QUANTITIES ARE FOR SEDIMENT CONTROL USE ONLY. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR ESTIMATING AND BIDDING PURPOSES.



CLARK BUILDING
PROPERTY OWNER: PROPERTY CAPITAL TRUST
ZONING: NT (NEW TOWN COMMERCIAL)
T.C. 7/6 PARCEL G

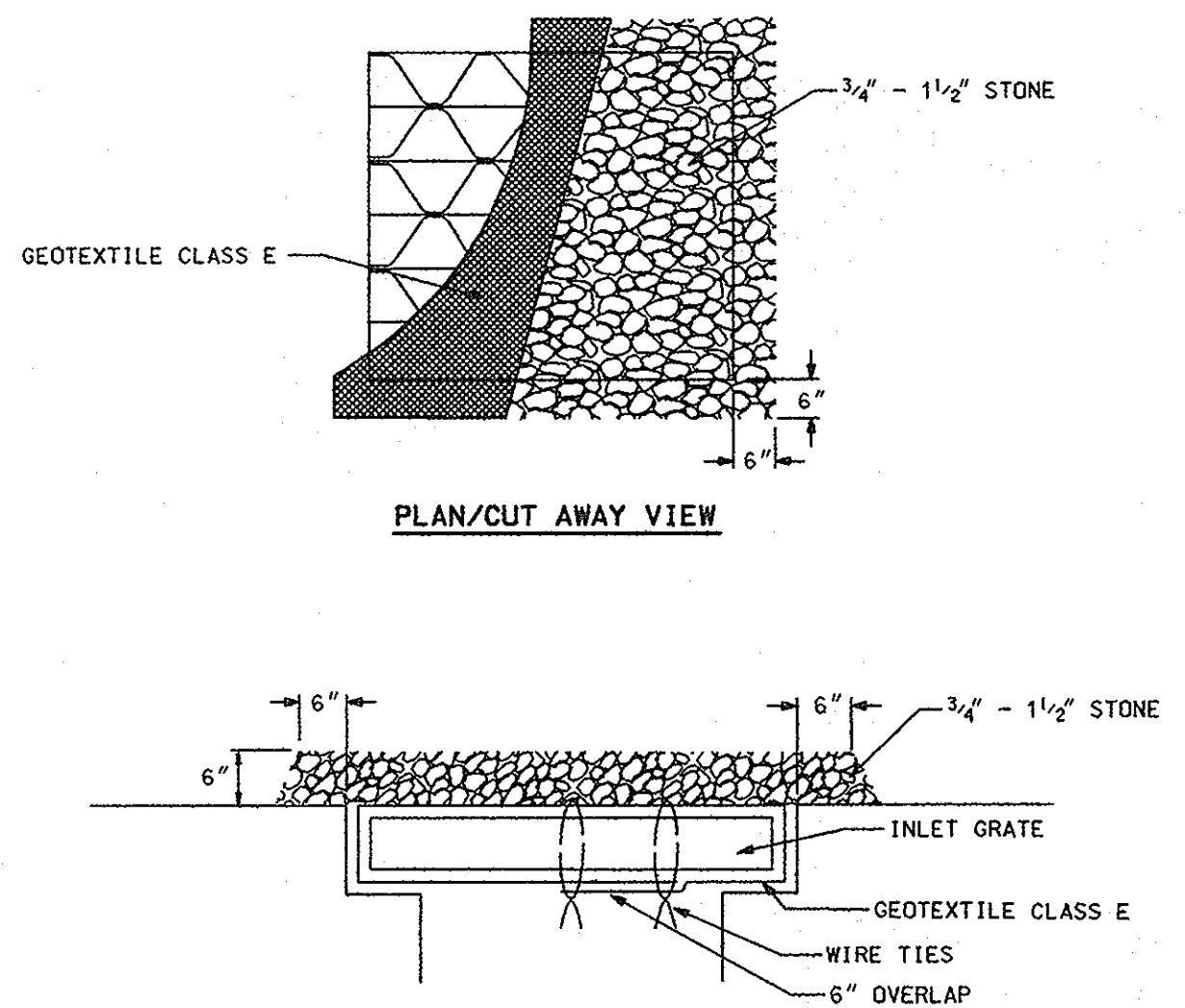
SDP-97-04
PLANNING BOARD APPROVAL
APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: NOV. 21, 1996



NOTE:
THIS PLAN FOR SEDIMENT CONTROL USE ONLY

DATE	NUMBER	REVISION DESCRIPTION
3/5/97		APPROVED: DEPARTMENT OF PLANNING AND ZONING
3/11/97		CHIEF DEVELOPMENT ENGINEERING DIVISION
3/11/97		CHIEF DIVISION & LAND DEVELOPMENT
3/13/97		DIRECTOR
3-10-97		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
3-10-97		COUNTY HEALTH OFFICER
12-10-96		BY THE ENGINEER: I 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 COUNTY SOIL CONSERVATION DISTRICT.
12-12-96		BY THE DEVELOPER: I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE 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 COUNTY SOIL CONSERVATION DISTRICT.
3/3/97		REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.
3/3/97		THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
3/3/97		OWNER/DEVELOPER: EXXON COMPANY, U.S.A. 6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. MIKE SPECHT PHONE: (301)-513-7511
12/10/96		FREDERICK WARD ASSOCIATES INC. ENGINEERS ARCHITECTS SURVEYORS 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2090
		AREA: COLUMBIA TOWN CENTER SECTION 7 AREA 6 TAX MAP 30 PARCEL 290 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
		TITLE: SEDIMENT AND EROSION CONTROL PLAN FOR AN EXXON STATION AT 10141 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044
		DESIGN BY: RBM SCALE: 1" = 20' PROJECT NO.: 93378
		DRAWN BY: MSW/KDN DATE: 9/11/96 DRAWING NUMBER
		CHECKED BY: TFW APPROVED: 07 OF 11

DETAIL 23B - AT GRADE INLET PROTECTION



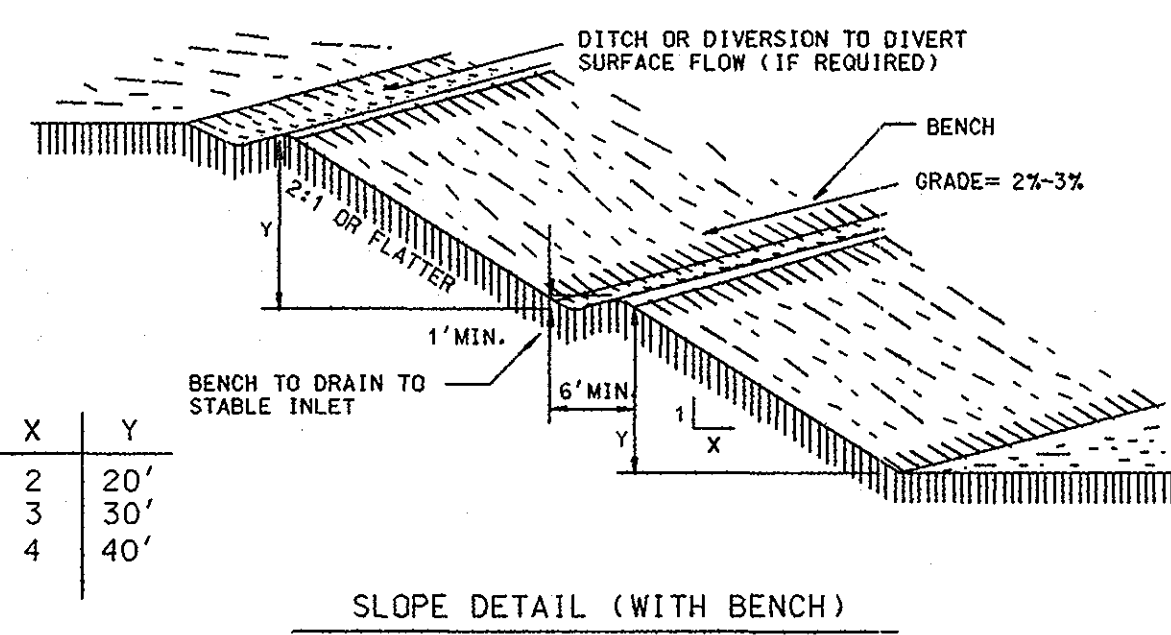
CROSS SECTION

MAX. DRAINAGE AREA = 1/4 ACRE

Construction Specifications

- Lift grate and wrap with Geotextile Class E to completely cover all openings, then set grate back in place.
- Place 3/4\"/>

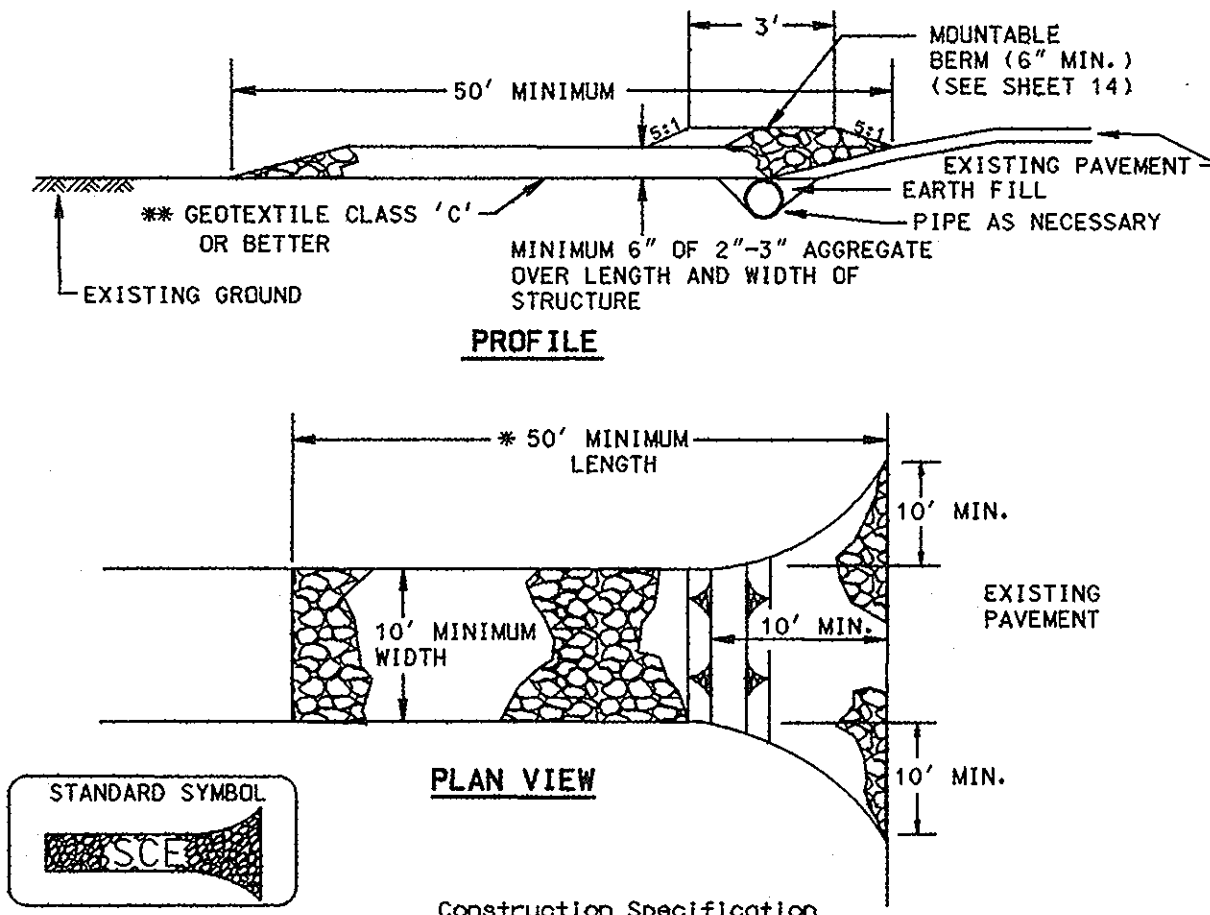
LANDGRADING



CONSTRUCTION SPECIFICATIONS

- ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
- ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN AND THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- AREAS TO BE FILLED SHALL BE CLEARED, CRUMBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF THREE INCHES PRIOR TO PLACEMENT OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL FILL IS TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS.
- EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.
- ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
- STOCKPILES, BORROW AREAS AND SOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATIONS.

STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATION

- Length - minimum of 50' (#30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- 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.
- Stone - crushed aggregate (2\"/>

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

SPECIFICATIONS

- CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD.
- SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
- STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
- INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIER'S WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
- SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO ITS INSTALLATION.

SITE PREPARATION

FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TEST. UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE SOIL TEST, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B. BELOW.

- PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
- WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS/ACRE OR 100 POUNDS PER 1,000 SQUARE FEET. IN ALL SOILS, 1,000 POUNDS PER ACRE OR 25 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.
- ALL AREAS RECEIVING SOD SHALL BE UNIFORMLY FINE GRADED. HARD-PACKED EARTH SHALL BE SCARIFIED PRIOR TO PLACEMENT OF SOD.

SOD INSTALLATION

- DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE THE SOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD.
- THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
- ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SECURE THE SOD BY TAMING AND PEGGING OR OTHER APPROVED METHODS.
- AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO INSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN EIGHT HOURS.

SOD MAINTENANCE

- IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS OFTEN AS NECESSARY DURING THE FIRST WEEK AND IN SUFFICIENT QUANTITIES TO MAINTAIN MOST SOIL TO A DEPTH OF 4 INCHES. WATERING SHOULD BE DONE DURING THE HEAT OF THE DAY TO PREVENT WILTING.
- AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE AND INSURE ESTABLISHMENT.
- FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF SHALL BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.
- MAINTENANCE OF ESTABLISHED SOD SHOULD FOLLOW SPECIFICATIONS OUTLINED IN TABLE 54-1.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING UNLESS PREVIOUSLY LOOSENED.

SOILS AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/2 BU. PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (107 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (70-90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 LB. GALS. PER ACRE (5 GALS./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT. OR HIGHER, USE 3/4 GALS. PER ACRE (8 GALS./1000 SQ.FT.) FOR ANCHORING.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING UNLESS PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL, AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.)
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OPTION (2) USE SOD, OPTION (3) SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (5 GALS./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREA, ON SLOPES 8 FEET OR HIGHER, USE 3/4 GALLONS PER ACRE (8 GALS./1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- 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)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE "1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, BY 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7 OF "HOWARD COUNTY DESIGN MANUAL", STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE "1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEE G.) TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 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.
- SITE ANALYSIS:
 - TOTAL AREA OF SITE: 1.40 ACRES
 - AREA DISTURBED: 0.556 ACRES±
 - AREA TO BE ROOFED OR PAVED: 0.449 ACRES±
 - AREA TO BE VEGETATIVELY STABILIZED: 0.330 ACRES±
 - TOTAL CUT: 130 CUBIC YARDS
 - TOTAL FILL: 25 CUBIC YARDS
 - OFFSITE WASTE/BORROW LOCATION: N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF PERMANENT SEEDING, SOD, TEMPORARY SEEDING OR MULCHING, 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - TOPSOIL SHALL BE A LOAM SANDY LOAM, LOAM CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1/2\"/>
- WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- IF FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

TOPSOIL APPLICATION

- WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
- GRADES ON AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4\"/>

DATE:	NUMBER:	REVISION DESCRIPTION:
APPROVED:	DEPARTMENT OF PLANNING AND ZONING	
	<i>[Signature]</i>	3/5/97 DATE
	CHIEF-DEVELOPMENT ENGINEERING DIVISION	
	<i>[Signature]</i>	3/4/97 DATE
	CHIEF-DIVISION & LAND DEVELOPMENT	
	<i>[Signature]</i>	3/13/97 DATE
	APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS	
	HOWARD COUNTY HEALTH DEPARTMENT	
	<i>[Signature]</i>	3-10-97 DATE
	COUNTY HEALTH OFFICER	

BY THE ENGINEER:

"I 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 COUNTY SOIL CONSERVATION DISTRICT."

[Signature] 12-10-96
SIGNATURE OF ENGINEER DATE

BY THE DEVELOPER:

"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE 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 COUNTY SOIL CONSERVATION DISTRICT."

[Signature] 12-12-96
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.

[Signature] 3/3/97
U.S. NATIONAL RESOURCES CONSERVATION SERVICE DATE

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

[Signature] 3/3/97
HOWARD S.C.D. DATE

DIVISION/DEVELOPER: **EXXON COMPANY, U.S.A.**

6301 IVY LANE
SUITE 700
GREENBELT, MARYLAND 20770
ATTN: MR. MIKE SPECHT
PHONE: (301)-513-7511

FREDERICK WARD ASSOCIATES INC.
ENGINEERS ARCHITECTS SURVEYORS

5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2000

FWA JOB NUMBER: 93378 FWA DRAWING FILE NAME: PESCD01L.DGN

AREA: **COLUMBIA TOWN CENTER**
SECTION 7 AREA 6
TAX MAP 30 PARCEL 290
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: **SEDIMENT AND EROSION CONTROL NOTES AND DETAILS**
FOR AN EXXON STATION AT
10141 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21044

DESIGN BY: RBM SCALE: 1" = 20' PROJECT NO.: 93378
DRAWN BY: MSW/KDN DATE: 9/6/96 DRAWING NUMBER
CHECKED BY: TFW APPROVED: DATE: 08 OF 11

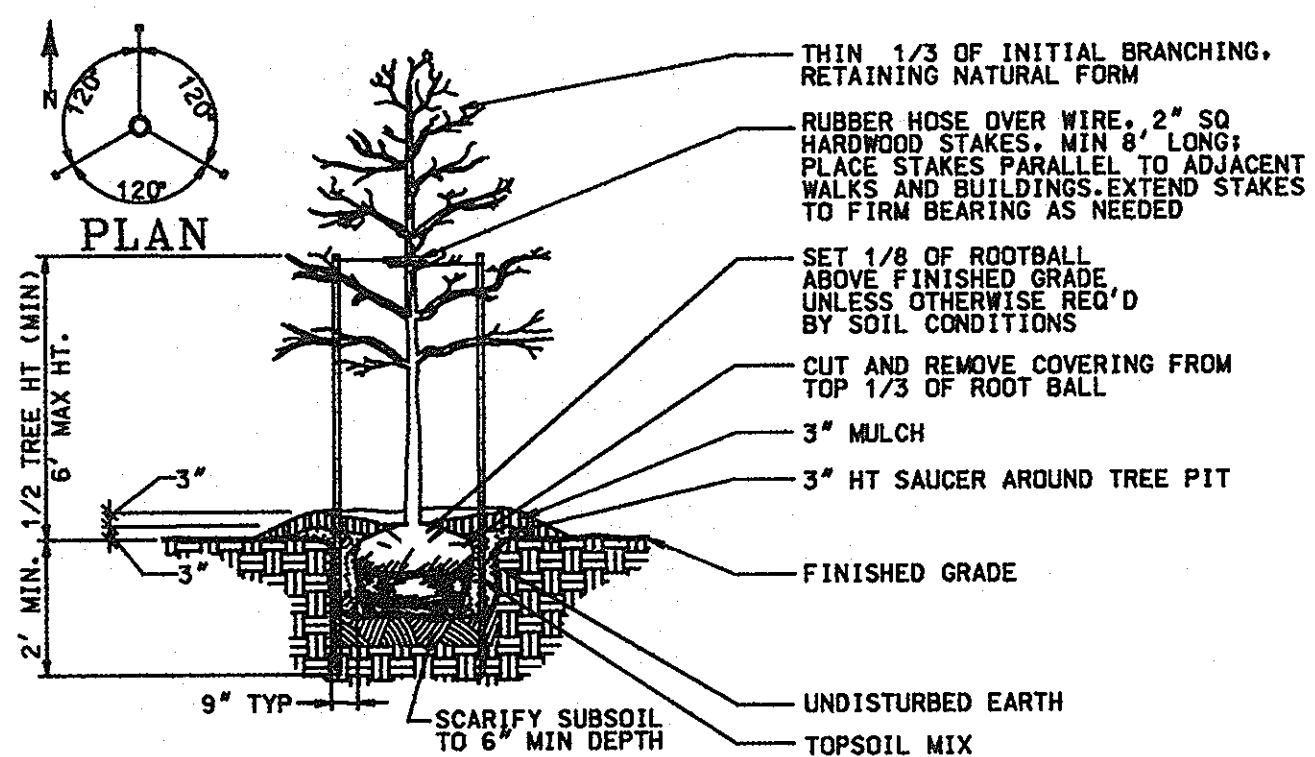
SDP-97-04
PLANNING BOARD APPROVAL

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

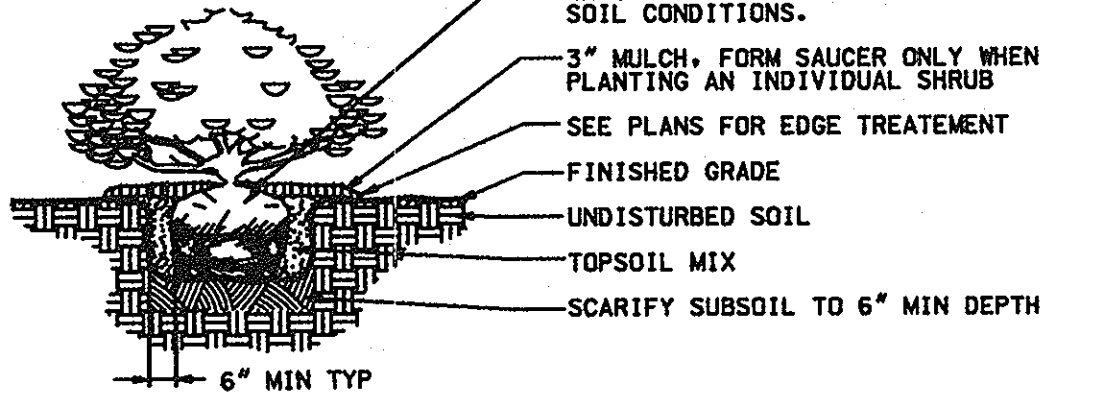
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12-10-96
DATE

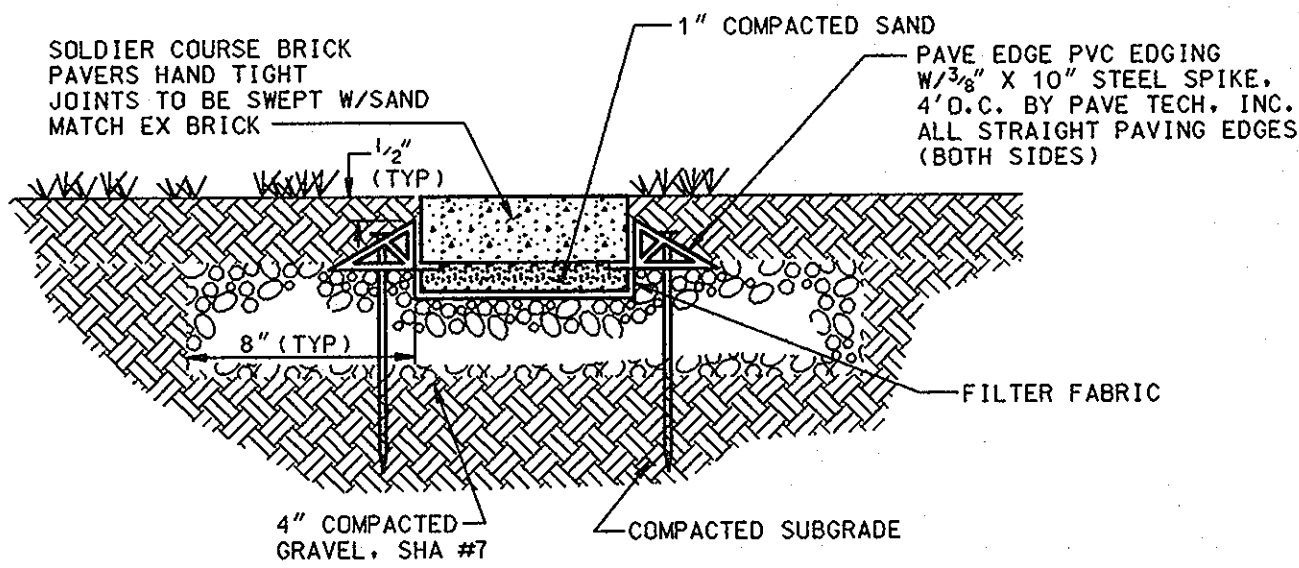
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PROFESSIONAL ENGR. NO. 19155



DECIDUOUS TREE PLANTING (UP TO 3" CALIPER)

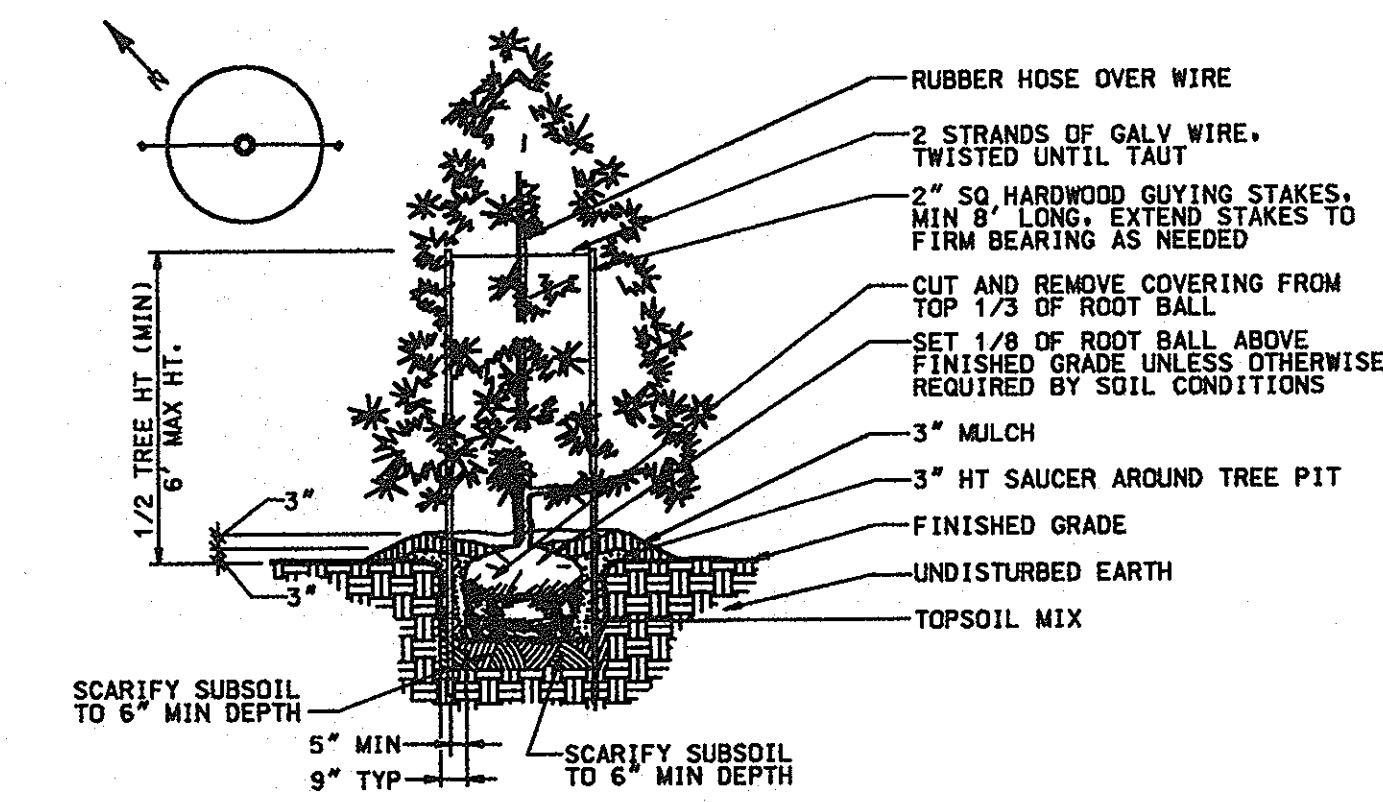
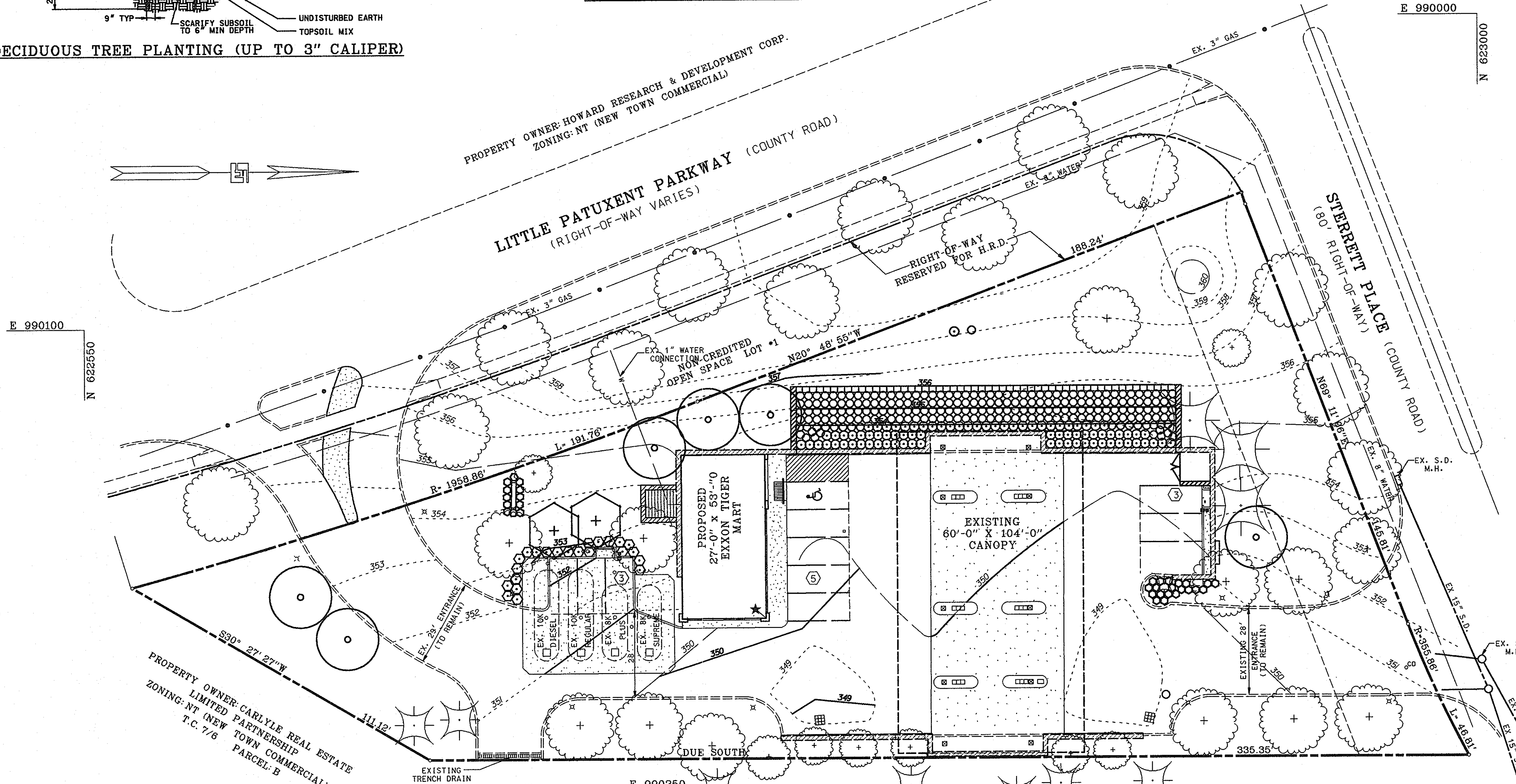


SHRUB PLANTING DETAIL



PAVERS WITH SUBSURFACE EDGING
N.T.S.

LANDSCAPE PLANTINGS				
SYMBOL	QUANTITY	BOTANICAL/Common NAME	SIZE	REMARKS
○	6	ACER PLATANOIDES 'SUMMERSHADE' SUMMERSHADE MAPLE	2 1/2 - 3" CAL 13' - 15' HT	B&B FULL
⊙	81	FORSYTHIA SUSPensa (weeping form) weeping FORSYTHIA	3 - 4' HT 4 - 5 CANES	CONT FULL 3' D.C.
○	211	JUNIPERUS CHINENSIS SARGENTII 'COMPACTA' COMPACT SARGENT JUNIPER	12 - 15" HT 18 - 24" SPR	B&B FULL 2 1/2' D.C.
○	32	COTONEASTER DAMMERII 'SKOGHOLM' CHRISTMAS CARPET COTONEASTER	12 - 15" HT 15 - 18" SPR	CONT FULL 2' D.C.
⊙	23	PRUNUS LAUROCERASUS 'OTTO LOGKEN' OTTO LUYKEN CHERRY LAUREL	2 1/2 - 3' HT 2 1/2 - 3' SPR	B&B FULL 3 1/2' D.C.
⊕	2	PRUNUS X YEDOENSIS YOSHINO CHERRY	8 - 10" HT 2 - 2 1/2" CAL	B&B HEAVY 12' D.C.



EVERGREEN TREE PLANTING DETAIL

GENERAL PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION.
- ALL PLANTING SHALL BE IN ACCORDANCE WITH STANDARD AMERICAN ASSOCIATION OF NURSERYMEN PROCEDURES AND SPECIFICATIONS.
- CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL VERIFY THE CORRECT LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO INSTALLATION OF ANY PLANT MATERIALS.
- PLANT MATERIAL LOCATION TO BE STAKED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- ALL PLANT BEDS AND PLANTING AREAS TO BE MULCHED TO A DEPTH OF 3" UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS.
- ALL AREAS DISTURBED BY PLANTING OPERATIONS SHALL BE FINE GRADED AND SOODED.
- OBTAIN APPROVAL FROM ARCHITECT'S OR OWNER'S REPRESENTATIVE BEFORE MAKING ANY SUBSTITUTIONS OR CHANGES.
- ALL PLANT BEDS SHALL BE CONTAINED WITH A SPADED EDGE UNLESS OTHERWISE NOTED ON DRAWINGS.
- QUANTITIES SHOWN ON PLANT LIST ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY AND ARE NOT GUARANTEED TO BE ACCURATE. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLAN AND QUANTITIES SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL APPLY.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL FOLLOWING THE NEW TOWN ALTERNATIVE COMPLIANCE METHOD.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$4,300.00, BY EXXON.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: NOV. 21, 1996
COH

12-10-96
DATE



DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

OWNER/DEVELOPER: EXXON COMPANY, U.S.A.
6301 IVY LANE, SUITE 700, GREENBELT, MARYLAND 20770
ATTN: MR. MIKE SPECHT, PHONE: (301)-513-7511

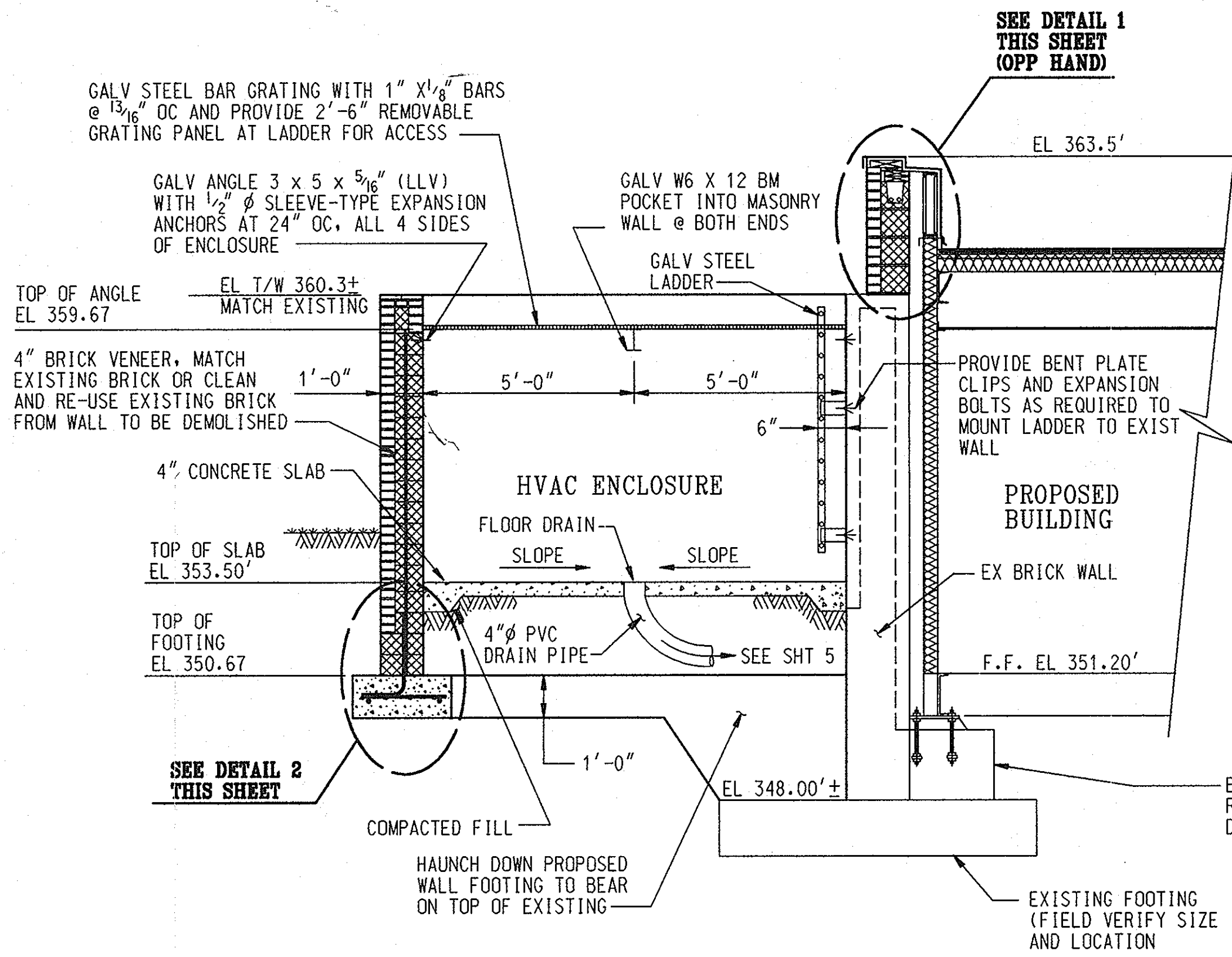
FREDERICK WARD ASSOCIATES INC.
ENGINEERS ARCHITECTS SURVEYORS
5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21034 (410)879-2090

FWA JOB NUMBER: 93378 FWA DRAWING FILE NAME: PRLAND.DGN

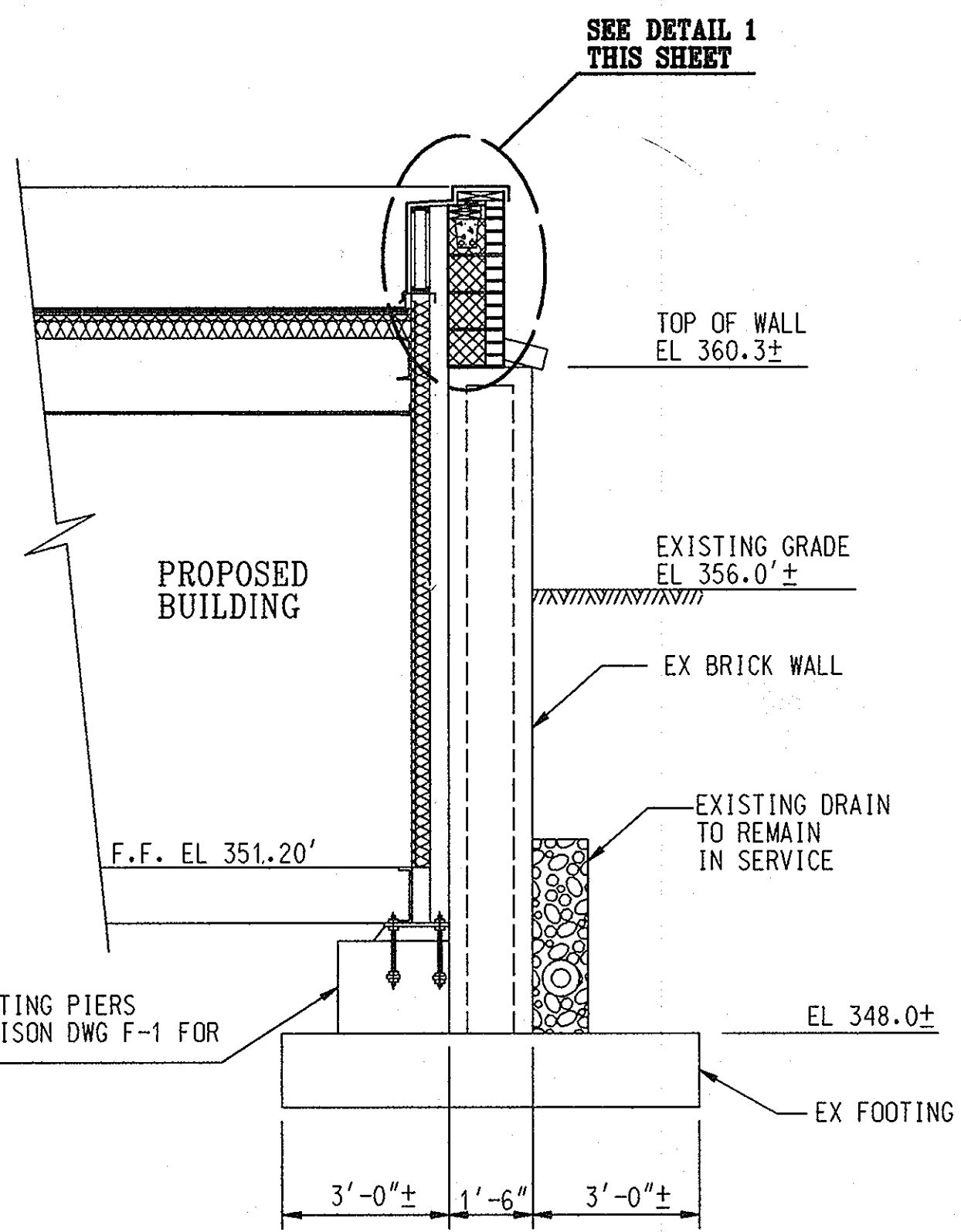
AREA: COLUMBIA TOWN CENTER SECTION 7 AREA 6 TAX MAP 30 PARCEL 290 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: LANDSCAPE PLAN FOR AN EXXON STATION AT 10141 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044

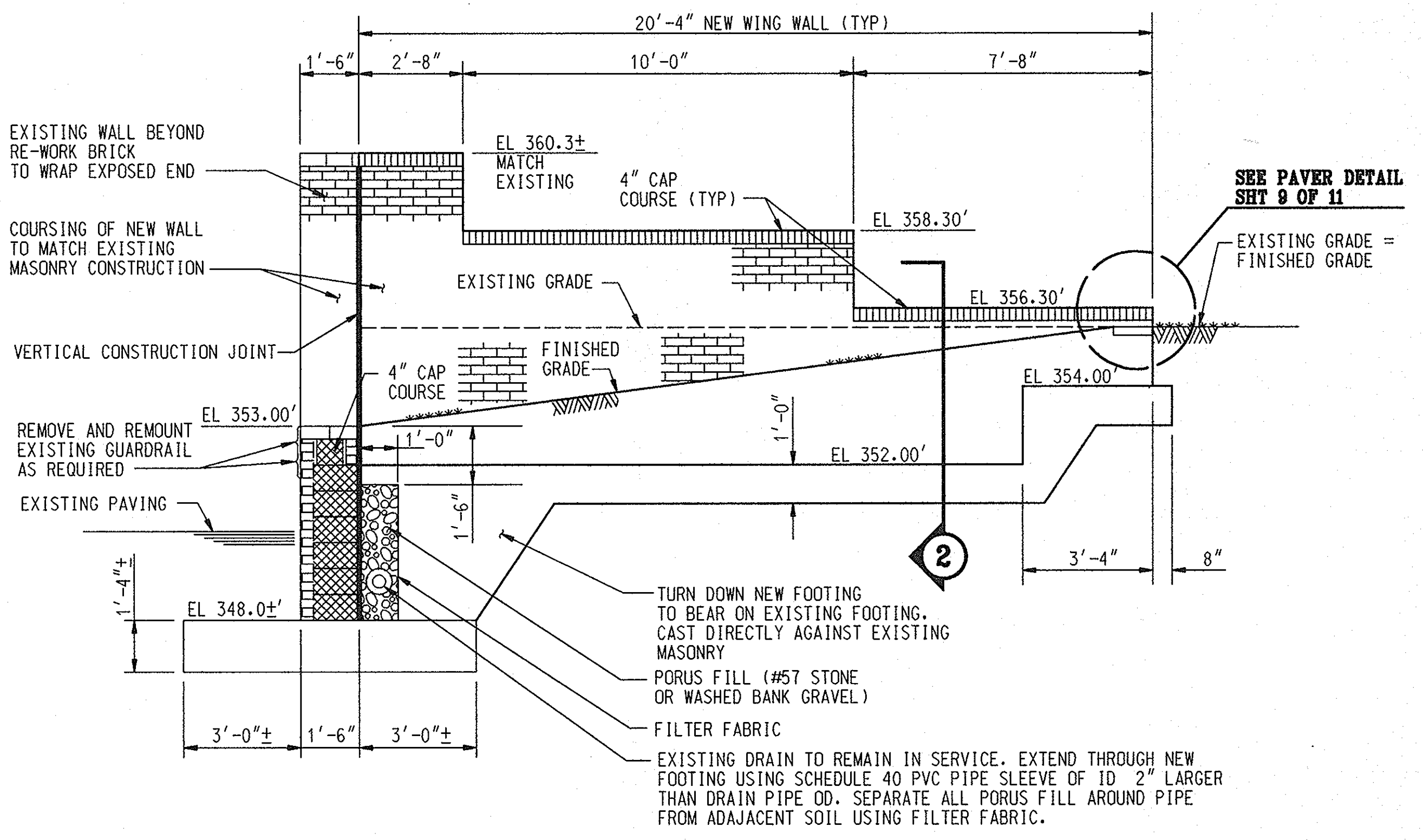
DESIGN BY: RDM SCALE: 1" = 20' PROJECT NO.: 93378
DRAWN BY: MSM/KON DATE: 9/11/96 DRAWING NUMBER
CHECKED BY: TFW APPROVED: 09 OF 11



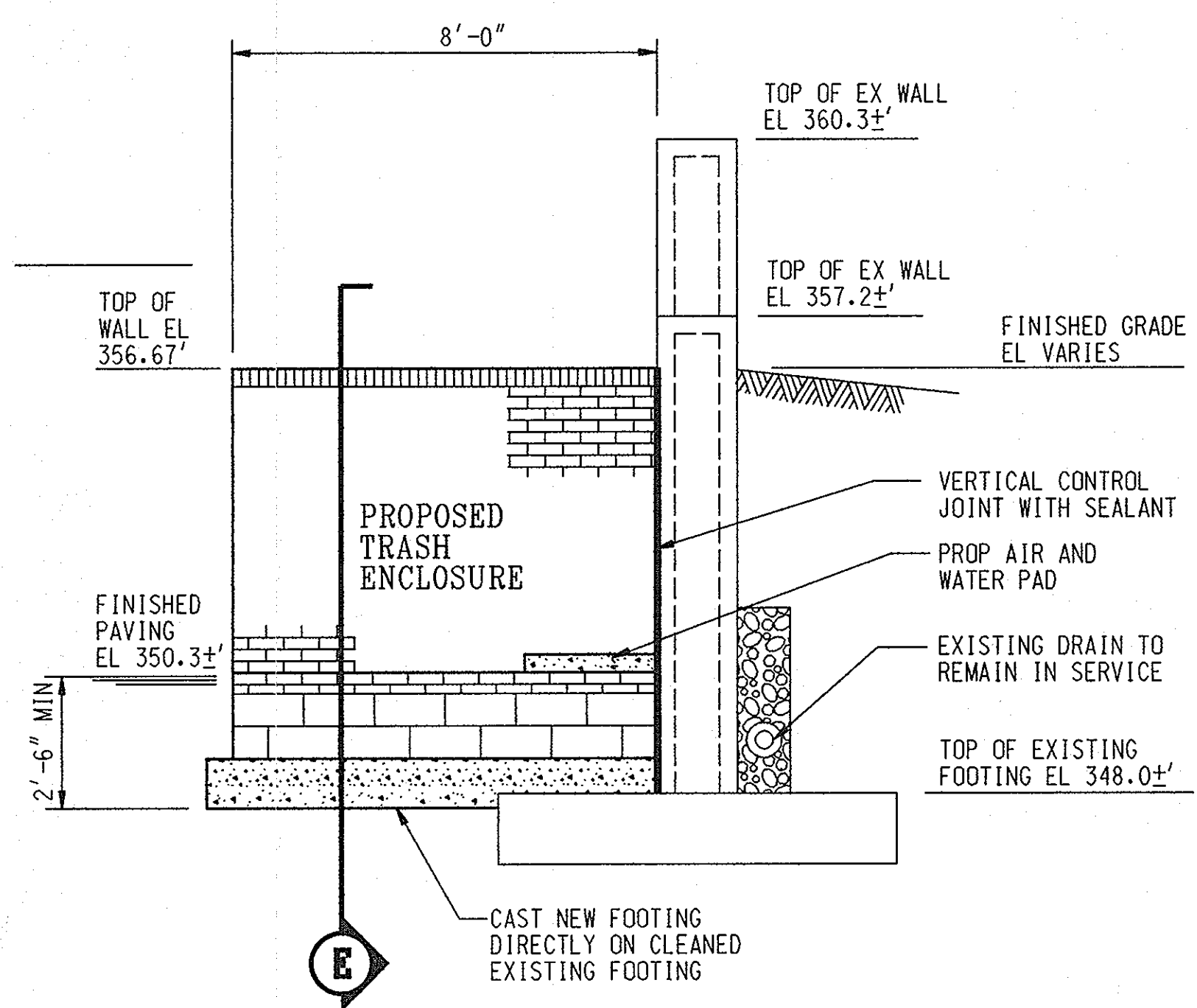
SECTION A
SCALE: 3/8" = 1'-0"



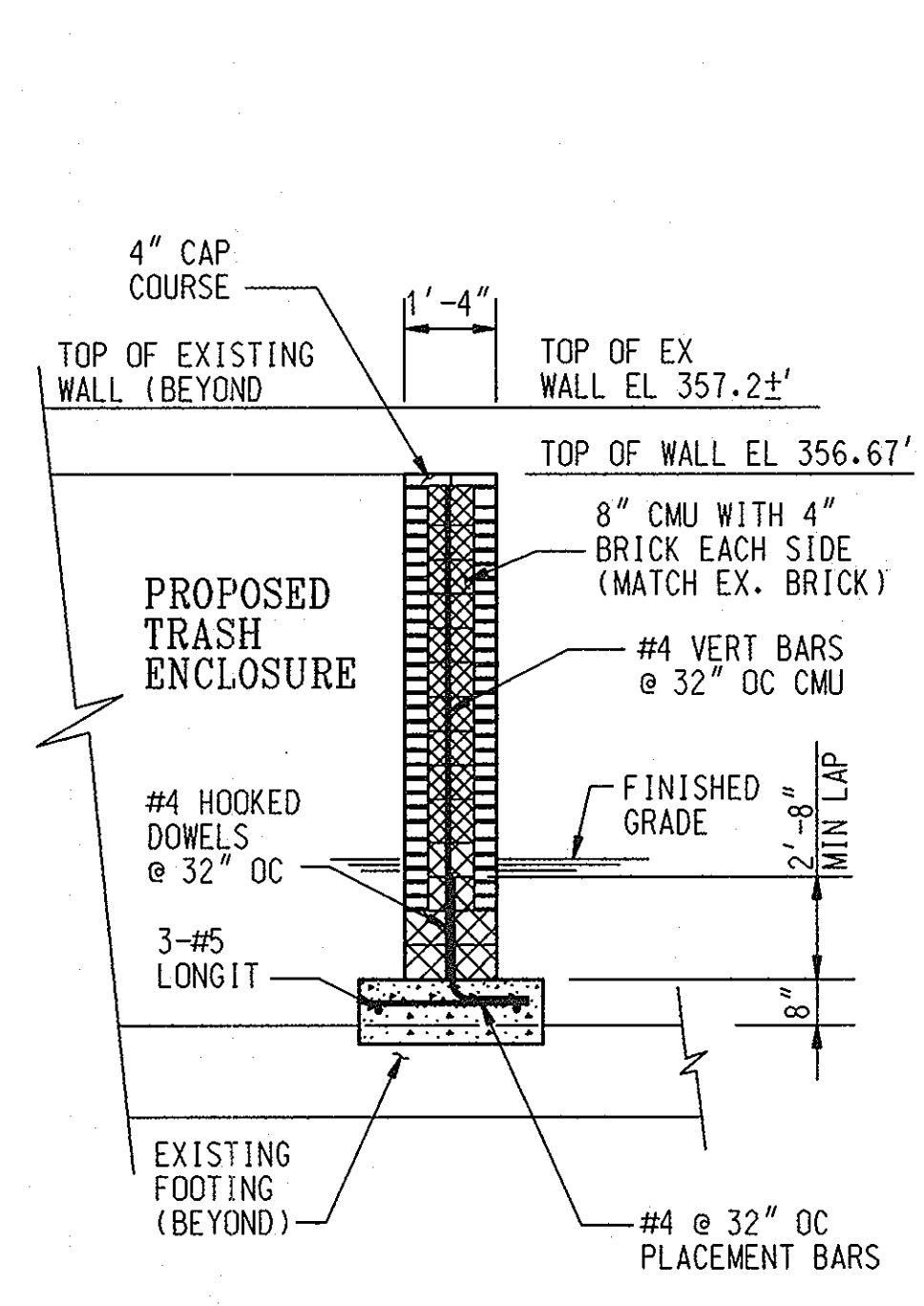
SECTION B
SCALE: 3/8" = 1'-0"



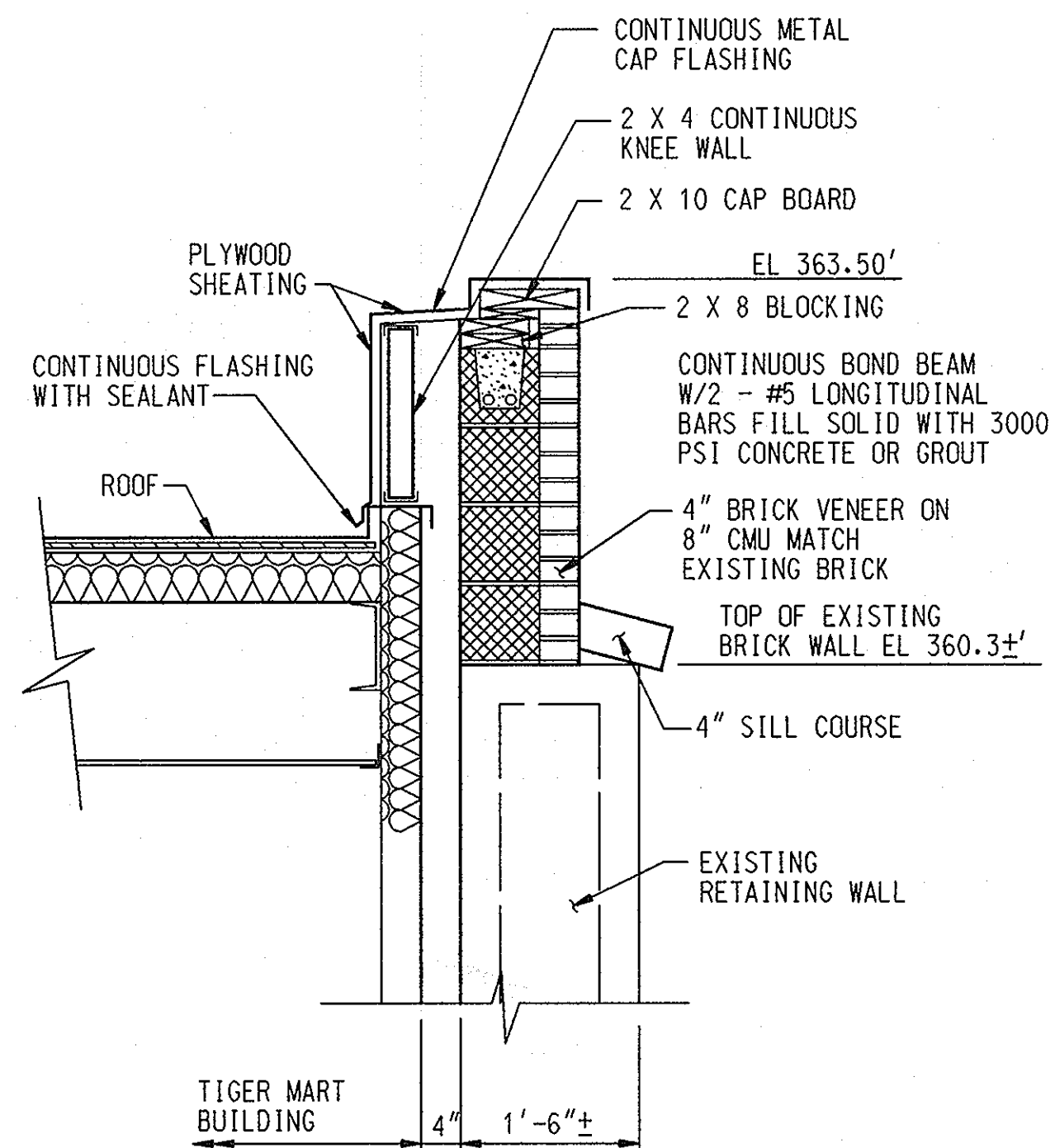
SECTION C
SCALE: 3/8" = 1'-0"



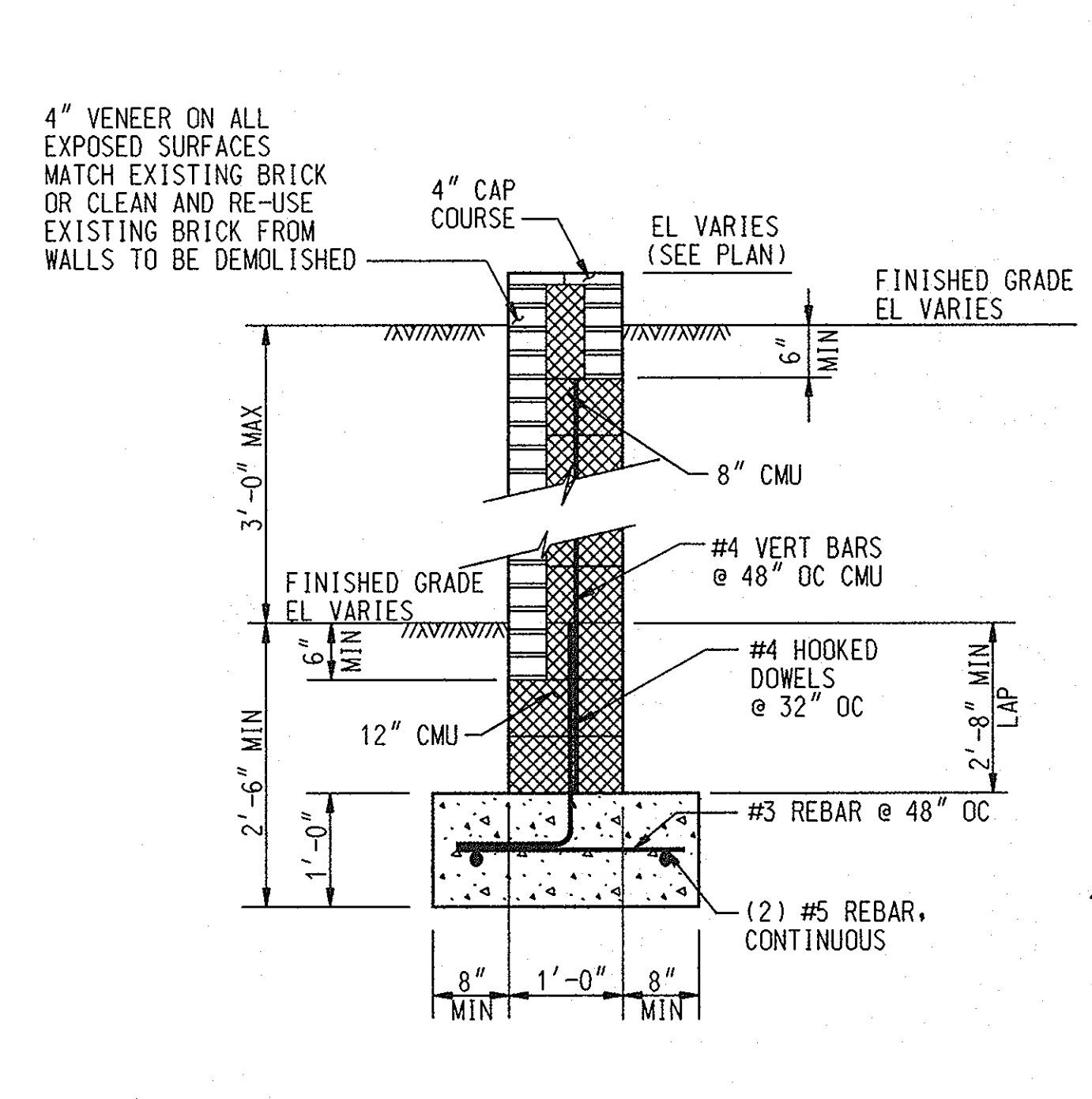
SECTION D
SCALE: 3/8" = 1'-0"



SECTION E
SCALE: 3/8" = 1'-0"



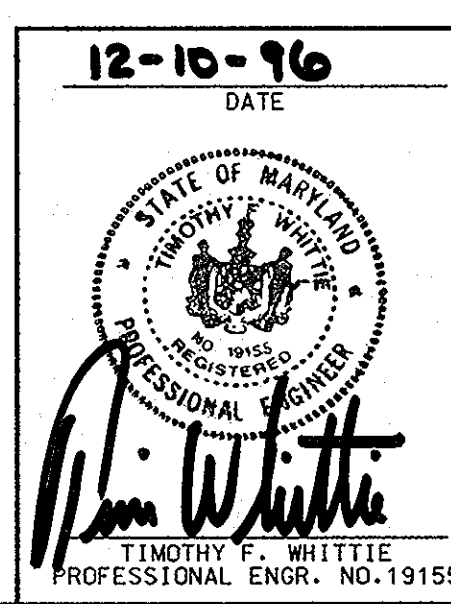
DETAIL 1
SCALE: 3/4" = 1'-0"



DETAIL 2
SCALE: 3/4" = 1'-0"

DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF DEVELOPMENT ENGINEERING DIVISION
		CHIEF DIVISION & LAND DEVELOPMENT
		DIRECTOR
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
		HOWARD COUNTY HEALTH DEPARTMENT

OWNER/DEVELOPER: **EXXON COMPANY, U.S.A.**
6301 IVY LANE, SUITE 700, GREENBELT, MARYLAND 20770
ATTN: MR. MIKE SPECHT, PHONE: (301) 513-7511



SDP-97-04
PLANNING BOARD APPROVAL
APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE: NOV. 21, 1996

FREDERICK WARD ASSOCIATES INC. ENGINEERS ARCHITECTS SURVEYORS 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410) 879-2090
FWA JOB NUMBER: 93376 FWA DRAWING FILE NAME: PEWALLOCH
AREA: COLUMBIA TOWN CENTER SECTION 7 AREA 6 TAX MAP 30 PARCEL 290 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE: RETAINING WALL DETAILS FOR AN EXXON STATION AT 10141 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044
DESIGN BY: RBM SCALE: AS NOTED PROJECT NO.: 93376
DRAWN BY: CP DATE: 9/24/96 DRAWING NUMBER
CHECKED BY: TFW APPROVED: 11 OF 11