# CONSTRUCTION NOTES AND GENERAL NOTES:

1. All items shall be assumed in this contract unless otherwise noted. 2. Site contractor to coordinate construction activities with electrical contractor when working in

the area of proposed or existing telephone, communication or electrical wiring.

3. All contractors shall make a site visit, before bidding, to verify all existing on-site conditions.

4. Provide 4" wide white striping lines for standard car parking stalls and provide 4" blue striping lines for handicap parking stalls. 4" wide yellow striping to be used for all trailer parking stalls.

5. Prior to relocating or installing new fence, the contractor shall verify final fence line location with owner and construction manager.

7. The contractor shall notify the Howard County Department of Public Works Construction Inspection Division at 410-313-1880 at least 48 hours prior to commencing any of the work in conjunction with the stormwater management plan and any other work shown hereon.

6. All parking lot dimensions shown on these plans are from face of curb unless noted otherwise.

8. No work shall proceed until the Howard County inspects and approves the work previously completed and furnishes the developer with the results of the inspection reports after completion

9. Upon completion of construction, certified as-built drawings shall be submitted to Howard County documenting the as-built condition of all stormwater management facilities.

10. All areas not being paved or receiving building coverage shall be stabilized in accordance with the plans approved by the Howard Soil Conservation District.

11. The contractor shall note that in case of discrepancy between any scaled dimensions and the figured dimensions shown on these plans, the figured dimensions shall govern.

12. Contractor shall meet all existing improvements smoothly for line, grade and finish.

13. All work shown on these plans shall be completed in strict accordance with the latest standards and specifications of the Howard County Department of Public Works and of the Maryland State Highway Administration and the Howard County Plumbing Code, unless otherwise noted.

14. It shall be distinctly understood that failure to specifically mention any work or associated activities that would normally be required to complete this project shall not relieve the contractor of the responsibility to perform such work.

15. The contractor shall thoroughly inspect the entire site to verify existing field conditions and determine the extent of required clearing, demolition, and utility relocation or adjustment prior to

16. The locations of existing utilities shown hereon are approximate only and are provided for the convenience of the contractor only. The contractor shall notify Miss Utility at 1-800-257-7777 a minimum of 5 working days prior to digging. The contractor shall confirm to his own satisfaction, using the best available technology the location of all utilities, whether shown or not, prior to any excavation or placement of materials. If any conflict is found between underground utilities and the proposed location of any construction, the contractor shall contact the Engineer and the owner of the utility immediately. Any damage or disruption of service shall be at the expense of the contractor. Relocation of any existing utilities, if necessary, shall be at the expense of the owner. The contractor shall coordinate relocation of these facilities, if necessary.

17. Contractor shall protect all existing trees and vegetation outside the limit of disturbance at all times during construction.

18. Contractor shall protect all existing improvements not scheduled for removal or demolition Any fines or cost for repair to existing improvements not scheduled for removal or demolition is the responsibility of the Contractor. Cost of repair to existing improvements that will be impacted by the project shall be included in the base bid. All existing site features not being retained shall be removed and disposed of at an approved location. Any damage to offsite roads, rights of way, or adjacent property shall be repaired immediately at the expense of the contractor.

19. The contractor shall clear the project site of all trees, paving, structures, etc. within the

20. Only suitable material shall be used as fill and all fill shall be placed and compacted as specified in the soils report prepared for this site or as directed by the on-site geotechnical engineer. All grading under proposed paving, and all fill and compaction shall be approved by a

21. Contractor shall provide minimum 1 foot bench at edge of paving in fill areas. Maximum slope of bench shall be 4% (1/4 in. per foot).

22. Maximum slope shall be 3 horizontal to 1 vertical, unless specifically noted otherwise.

23. Contractor shall place 4" minimum topsoil in landscape areas.

of any proposed underground stormwater quality Best Management Practice (BMP). 25. Contractor shall provide a minimum of 1 foot of protective fill over storm drain pipes during

24. Contractor shall place a witness post at the terminus of all utility stubs and at all the corners

26. All traffic control, devices, markings, and signage shall be in accordance with the latest edition of the "Manual of Uniform Traffic Control Devices." All street and regulatory signs shall be

installed prior to installation of finished paving. 27. The contractor shall replace any existing bituminous paving or sub-base which is damaged or removed during construction. All excavated areas shall be backfilled and in accordance with the soils report and/or as directed by geotechnical engineer. Any areas to be paved which exhibit unstable subgrade conditions shall be excavated to bearing soil, refilled and compacted.

28. In an area where excavation is required within the road right-of-way, excavation must be made within one (1) foot of the final subgrade.

29. Where fill is proposed within the road right-of-way, the fill shall be a minimum of two (2) feet

30. All outdoor lighting to comply with Howard County Zoning regulation specifications Section 134

31. All storm drains to be RCCP unless otherwise noted.

agreement in an amount of 13,860.00

33. A 40' wide "common access easement" exists centered on the common property line between

32. There are no known cemeteries or burial grounds located on this site.

parcels B-1 and B-2 as outlined on Plat 9196 and depicted on this plan. 34. This project is exempt from the requirements of Section 16.1200 of the Howard County Code for Forest Conservation per Section 16.1202(b)(1)(iii) since the entire site was mass graded per

George W. Stephens, Jr. and Associates, dated December 11, 1972. 35. This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard

"Site Grading Plan, Phase II, Greater Baltimore Consolidated Wholesale Food Market" as prepared by

County Code and Landscape Manual. 36. Financial surety for the required landscaping will be posted as part of the DPW developer's

37. The "Adequate Public Facilities Ordinance Road Test" was conducted and submitted for review

38. The two wetland areas identified on these plans were field delineated by Bradly Gochnauer of Vortex Environmental and reviewed with representatives of Maryland Department of the Environment (MDE) and the Army Corps of Engineers. For additional information relative to the wetland areas, see the detailed wetland report prepared by Vortex Environmental.

39. Per correspondence from David B. Boellner of MDE dated October 9, 2001 the Nontidal Wetlands and Waterways Division of the Water Management Administration (WMA) has completed its review of the application for the project. The WMA intends to issue a Nontidal Wetlands and Waterways Letter of Authorization (LOA) for the proposed activity. The project qualifies for authorization under Category I of the U.S. Army Corps of Engineers' Maryland State Programmatic General Permit (MDSPGP). This office will issue the MDSPGP and Water Quality Certification (WQC) for the project concurrently with the LOA.

40. The contractor or developer shall contact the Construction Inspection Division (24) hours in advance of commencement of work at (410-313-1880).

41. All outdoor lighting shall comply with the design and location requirements of Zoning Section 134. (see information of sheet 2 of 15) and Howard County Department of Planning and Zoning Developer\Homebuilder Newsletter of 01/02/01. \*\*Application Tracking No. 01-NT-0274/200164754.

DRAWING NUMBER

APPROVED: FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC (OR PRIVATE) SEWERAGE

County Health Officer Howard County Health Department

WEBBER/SMITH Associates, Inc DESIGN ENGINEERS DRAWN BY: ..... BLE. 

Phone (717)-291-2266 Fax (717)-291-4401 Email: Info@webbersmith.com STATUS: P - PRELIMINARY, F - FINAL

1857 William Penn Way, Suite 200

Lancaster, Pennsylvania 17601

3894-C000 - D-F

ENGINEER/ARCHITECT.

THE INFORMATION CONTAINED ON THIS AND ANY RELATED DRAWING FILE SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF INFORMATION THE STATED CLIENT AND PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THE

3/21/02 © 2001 WEBBER/SMITH Associates, Inc

**LEGEND** 

**EXISTING** 

\_\_\_\_\_190 \_\_\_\_

2' CONTOUR LINES

---- PW---- PROCESS WASTE LINE

---- FIRE PROTECTION LINE

---- G---- GAS LINE

SANITARY SEWER LINE

PROPERTY LINES

CONCRETE PAVING

RODENT STRIP

**HEADWALL** 

END SECTION

POWER POLE

FIRE HYDRANT

BARRIER CURB

CURB TAPER

WATER VALVE

RAILROAD

GUIDE RAIL

GABION WALL

REFERENCE FILES

**BOLLARDS** 

CLEANOUT

POST INDICATOR VALVE

COMBINATION CURB/GUTTER

SANITARY SEWER MANHOLE

STORM SEWER MANHOLE

FENCE

SPOT ELEVATIONS

ASPHALT PAVING (TRUCK)

ASPHALT PAVING (CAR)

EASEMENT

CALL 1-800-257-7777 (5) DAYS PRIOR TO THE START OF CONSTRUCTION

. . . 4

198.5

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ON OCTOBER 26, 2001 TO WAIVE SECTION 16.116(a)(1) TO PERMIT GRADING/FILL AND REMOVAL OF VEGETATIVE COVER WITHIN 25 FEET OF WETLAND. THE WAIVER APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: . THE OWNER/DEVELOPER SHALL OBTAIN ANY REQUIRED 404/401 PERMIT/CERTIFICATE AND NOTE

**VARIANCES/ADMINISTRATIVE ADJUSTMENTS:** \* AN ADMINISTRATIVE ADJUSTMENT, AA-01-26, OF SECTION 123.D.2.b OF THE !CWARD COUNTY ZONING REGULATIONS WAS GRANTED ON OCTOBER 24, 2001 TO REDUCE THE 50 FOOT STRUCTURE A D USE SETBACK FROM AN INTERNAL

\* A WAIVER PETITION NO. WP-02-26, WAS AP®ROVED BY THE HOWARD COUNTY PLANNING DIRECTOR

Site Development Plans

Parcel B-1 and B-2

Maryland Food Center Authority

Cross Dock/Trailer Parking

Howard County, Maryland

SDP-01-147

THE VARIANCE IS SUBJECT TO THE FOLLOWING CONDITIONS: 1. THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS.

2. THE GRANTED ADMINISTRATIVE ADJUSTMENT SHALL APPLY SOLELY TO THE PROPOSED PAVED STORAGE AREA AS DEPICTED ON THE ADMINISTRATIVE ADJUSTMENT PLAN SUBMITTED BY THE PETITIONER AND NOT TO ANY OTHER STRUCTURE, ADDITION, BUILDING OR USE.

PARKING TABULATION (PARCEL B-1):

PUBLIC STREET RIGHT-OF-WAY TO 10 FEET FOR A TRA ER STOP SE AREA.

SQUARE FEET PARKING REQUIREMENTS SPACES REQ'D USE GUARDHOUSE 84 sq. ft. 2,844 SQ FT. 3.3 SPACES/1000 SQ. FT. 4 OFFICE TOTAL SPACES REQUIRED 11

TOTAL SPACES PROVIDED (1 1. 1 UNIVERSAL SPACE MEETING A.D.A. REQUIREMENTS PROVIDED AT GUARD HOUSE FOR SECURITY GUARD

INDEX OF SHEETS:

3894-0000 - COVER SHEET (1 OF 15)

3894-C001 - SITE PLAN (2 OF 15) 3894-C002 - EXISTING CONDITIONS-DEMO TION PLAN (3 OF 15)

3894-COO3 - GRADING AND UTILITY PLAN (4 OF 15)

3894-C301 - EROSION AND SEDIMENTATION CONTROL PLAN (5 OF 15) 3894-C302 - EROSION AND SEDIMENTATION CONTROL DETAILS (6 OF 15)

3894-C303 - EROSION AND SEDIMENTATION CONTROL NOTES AND TABLES (7 OF 15)

3894-C304 - STORMWATER PROFILE SHEET (8 OF 15)

3894-C305 - DRAINAGE AREA PLAN (9 OF 15) 3894-C401 - PROFILE SHEET (10 OF 15)

3894-C402 - LANDSCAPE PLAN (11 OF 15)

3894-C501 - SITE DETAILS (12 OF 15)

3894-C502 - SITE DETAILS (13 OF 15) 3894-C503 - SITE DETAILS (14 OF 15)

3894-C504 - STORM WATER QUALITY CONTROL DETAILS AND NOTES (15 OF 15)

# **SURVEY NOTES:**

1. All existing Site Survey Information (boundary, topographic, utility, physical features) shown on these plans were provided by G.W. Stephens, Jr. and Associates, Inc.

BENCHMARKS:

N 546594.00 FT. E 1373621.745 FT.

AKA- N/A NAD 83 (91) HORIZONTAL AND N6VD29 (VERTICAL)

NAD 83 (91) HORIZONTAL AND N6VD29 (VERTICAL) N 543166.776 FT. E 1374425.020 FT.

BENCHMARK #43EA

BENCHMARK #43HB

ELEVATION - 252.306 FT.

AKA- N/A

1. LANDSCAPING WILL BE BROUGHT INTO COMPLIANCE WITH REPLINE REVISIONS #4 AND A SURETY OF \$15,375 WILL BE POSTED WITH THE BUILDING PERMIT

THE PURPOSE OF THE REDLINE REVISIONS #4 IS TO SHOW THE ADDITION OF A MODULAR OFFICE BUILDING FOR TEMPORARY OFFICE SPACE FOR EXISTING EMPLOYEES. THE PREVIOUSLY APPROVED SITE DEVELOPMENT PLANS USED AS THE BASE FOR THE REDLINE REVISIONS #4 WAS SUPPLIED BY THE QUENT AND PREPARED BY OTHERS - NOT RETTEW. RETTEW DOES NOT ATTEST TO THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS AND IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS DEPICTED ON THE PREVIOUSLY APPROVED SITE DEVELOPMENT PLANS

# PARKING TABULATION (PARCEL B-2):

PARKING REQUIREMENTS SPACES REQ'D SQUARE FEET 3.3 spaces/1000 sq. ft. OFFICE 22 28 5 WAREHOUSE/ 10,825 sq. ft 2.0 spaces/1000 sq. ft. MANUFACTURING 2,800 59.ft. BULDING ADDITION 1 WAREHOUSE TOTAL SPACES REQUIRED 25 31 14.350 sq. ft. 5

TOTAL SPACES PROVIDED 25 31 /5 1. 2 HANDICAP ACCESSIBLE SPACES REQUIRED PER A.D.A (2 PROVIDED) 1 VAN ACCESSIBLE)

2. THE TOTAL NUMBER OF EMPLOYEES WITHIN THE CROSS DOCK FACILITY IS 15. 3. 28'X29' OFFICE AREA SHOWN WITHIN PROPOSED CROSS DOCK FACILITY.

# FOR REVISION#5 ONLY



MD LICENSE # 29203 EXPIRATION 6.16.23 REVISION#5 - ADDED 2800 BLOG. ADDITION OVER EX. IMPERVIOUS AREA. PROP. DISTURBANCE: 3,360 SF

OWNER/DEVELOPER

MARYLAND FOOD CENTER

**AUTHORITY** 

7801 OCEANO AVENUE

JESSUP, MD 20794

410-379-5760

I CERTIFY THAT THESE REDLINE REVISION #4 WERE PREPARED OR APPROVED BY ME, AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 43538, EXPIRATION DATE 6/17/21.

PROFESSIONAL CERTIFICATION

SITE

\$ 12/19/22 REVISE TO ADD 2800 SF BLOG ADOLTED M.M. TCH

11/11/19 REVISE TO ADD MODULAR OFFICE BUILDING N.J.M. J.D.S

B.L.E. B.E.L

B.L.E. B.E.L.

E.L.E. B.E.L

DRAWN CHECKED

3 11/7/01 REVISED PER COUNTY COMMENTS

9/11/01 | REVISED PER COUNTY COMMENTS

1 6/22/01 SUBMITTED FOR SDP REVIEW

SYMBOL DATE

SITE ANALYSIS DATA CHART:

Parcel B-2 = (96,137 SQ. FT.) OR  $\pm 2.207 \text{ ACRES}$ Total = (282,922 SQ. FT.) OR  $\pm 6.495 \text{ ACRES}$ 

PRESENT ZONING DESIGNATION: M-2 (Manufacturing: Heavy) PROPERTY REFERENCE: Plat No. 9196 Parcel B-1 = (L.506 F.0782) Parcel B-2 = (L.506 F.0782)

EXISTING USE: Parcel B-1 = Vacant Parcel B-2 = Vacant

PROPOSED USE: Parcel B-1 = Trailer Parking w/Guard HouseParcel B-2 = Trailer Parking and Cross Dock Warehouse

Distribution Facility BUILDING COVERAGE OF SITE: Parcel B-1 = (0.05%)

Parcel B-2 = (12%) (14%) /5\

FLOOR AREA: Parcel B-1 (Guard House) = 84 Sa. Ft. Parcel B-2 (Cross Dock) = 14,550 Sq. Ft 13,625 Sq. ft.

FLOOR AREA RATIO: Parcel B-1 = <1%

Parcel B-2 = 12%IMPERVIOUS AREA: Parcel B-1 = ±67%

Parcel B-2 =  $\pm 67\%$ 

OPEN SPACE ON-SITE: Parcel B-1 = N/A Parcel B-2 = N/A

TOTAL AREA OF PARKING LOT: Parcel B-1 = ±125,763 Sq. Ft.

Parcel B-2 =  $\pm 46,608$  Sq. Ft. % OF PARKING LOT COVERAGE: Parcel B-1 ¥ ±67%

Parcel B-2 = ±47% ₩ AREA OF DISTURBANCE: Parcel B-1 =  $\pm 4.09$  AC Parcel B-2 =  $\pm 2.21$  AG.

Offsite/R.O.W. =  $\pm 0.25$  AC. AREA TO BE VEGETATIVELY STABILIZED: Parcel B-1 =  $\pm 52,635$  Sq. Ft. Parcel B-2 =  $\pm 35.575$  Sq. Ft.

AREA OF DISTURBANCE: Parcel  $B-1 = \pm 4.09$  Acres

Parcel  $B-2 = \pm 2.21$  Acres

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL

REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

(Aching

ADDRESS CHAR STREET ADDRESS 7940 TAR BAY DRIVE (GUARD HOUSE)

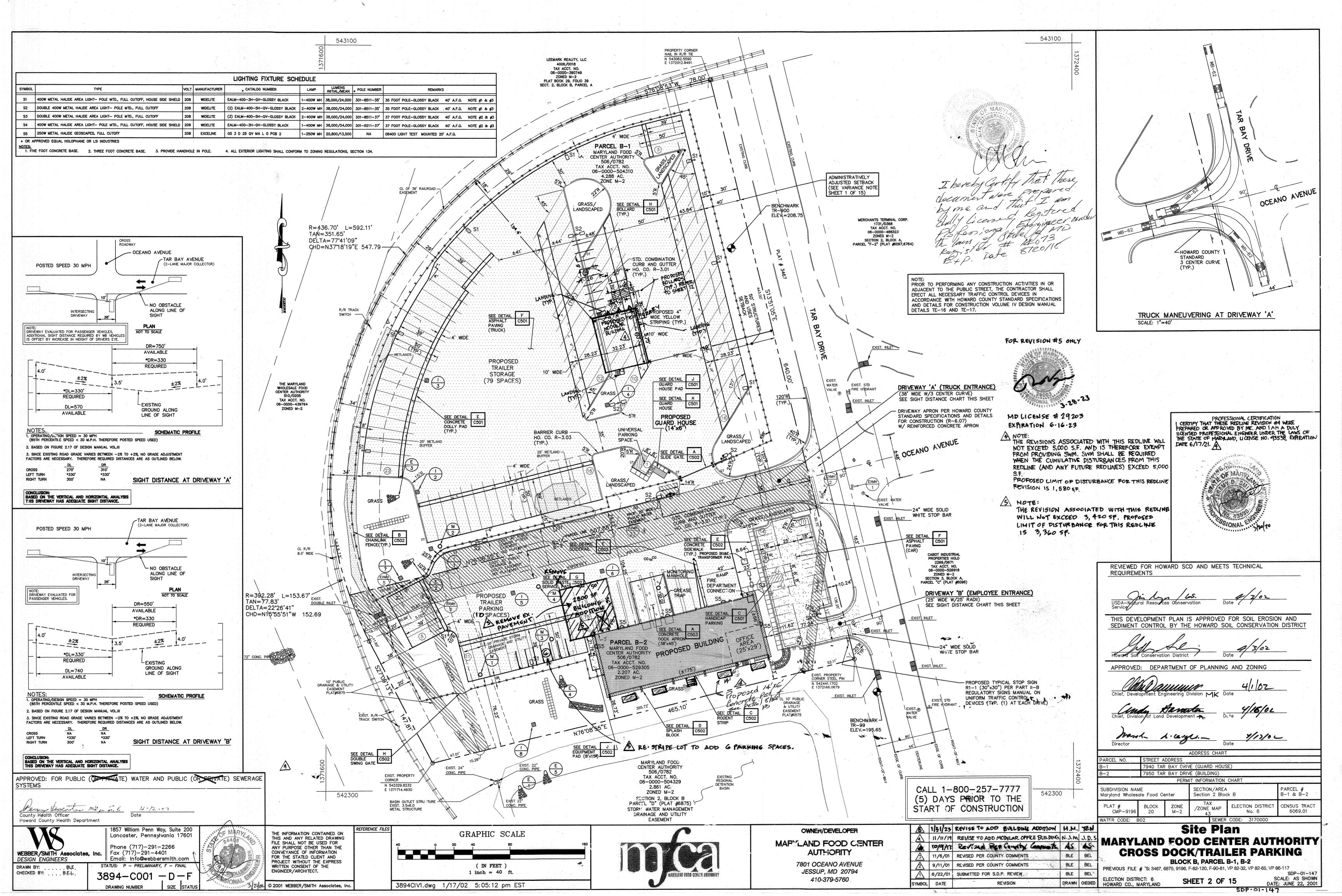
7950 TAR BAY DRIVE (BUILDING) PERMIT INFORMATION CHART PARCEL # SECTION/AREA SUBDIVISION NAME Maryland Wholesale Food Center B-1 & B-2 Section 2 Block B CENSUS TRACT BLOCK ZONE

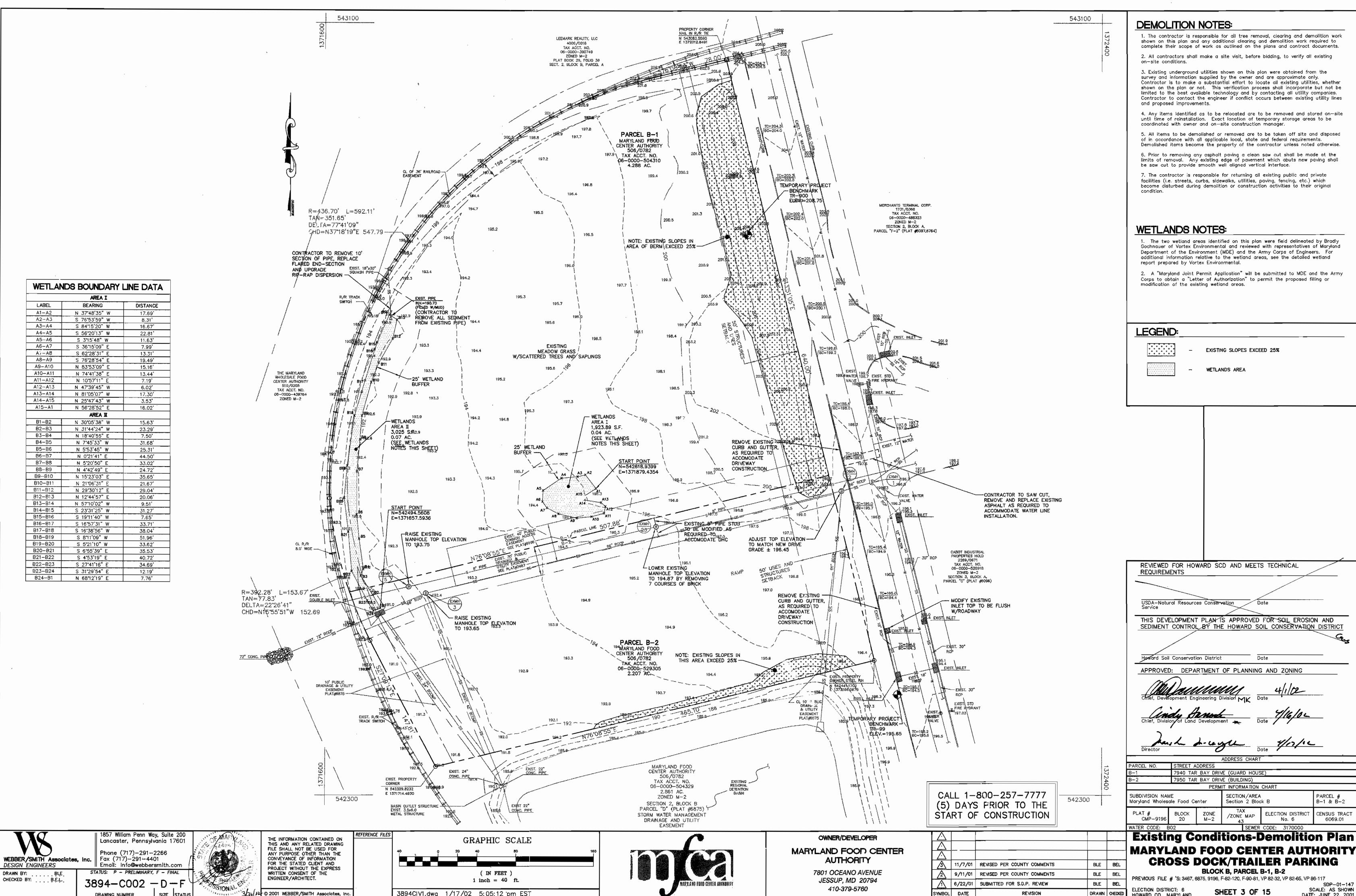
20 CMP-9196 SEWER CODE: 3170000 WATER CODE: BO2 **Cover Sheet** 

**MARYLAND FOOD CENTER AUTHORITY** CROSS DOCK/TRAILER PARKING BLOCK B, PARCEL B-1, B-2

PREVIOUS FILE #s: 31:07, 6875, 9196, F-82-120, F-90-81, VP 82-32, VP 82-65, VP 86-117 SDP-01-147 SCALE: AS SHOWN **ELECTION DISTRICT: 6** HOWATO CO., MARYLAND

SHEET 1 OF 15 DATE: JUNE 22, 2001 SDP-01-147



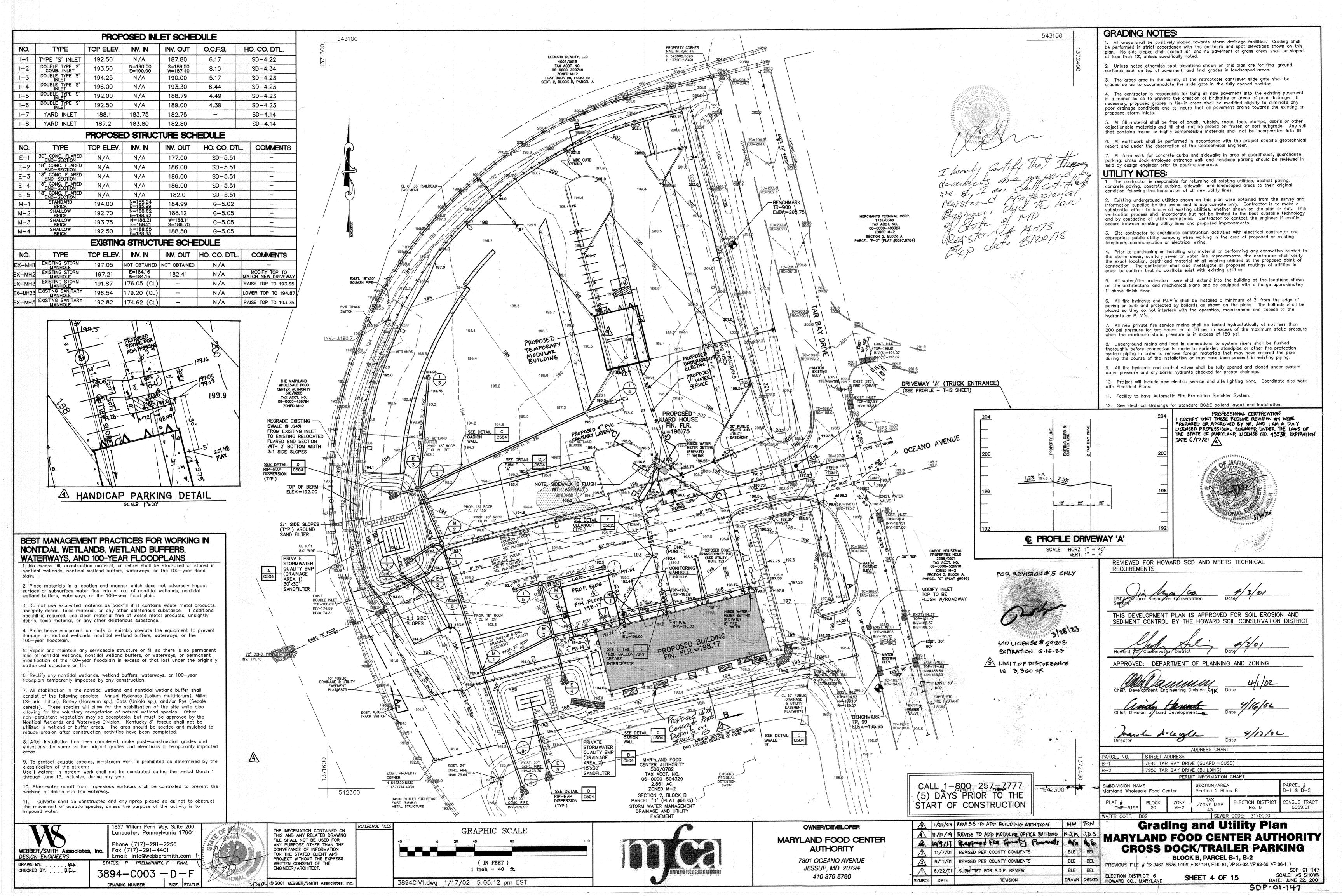


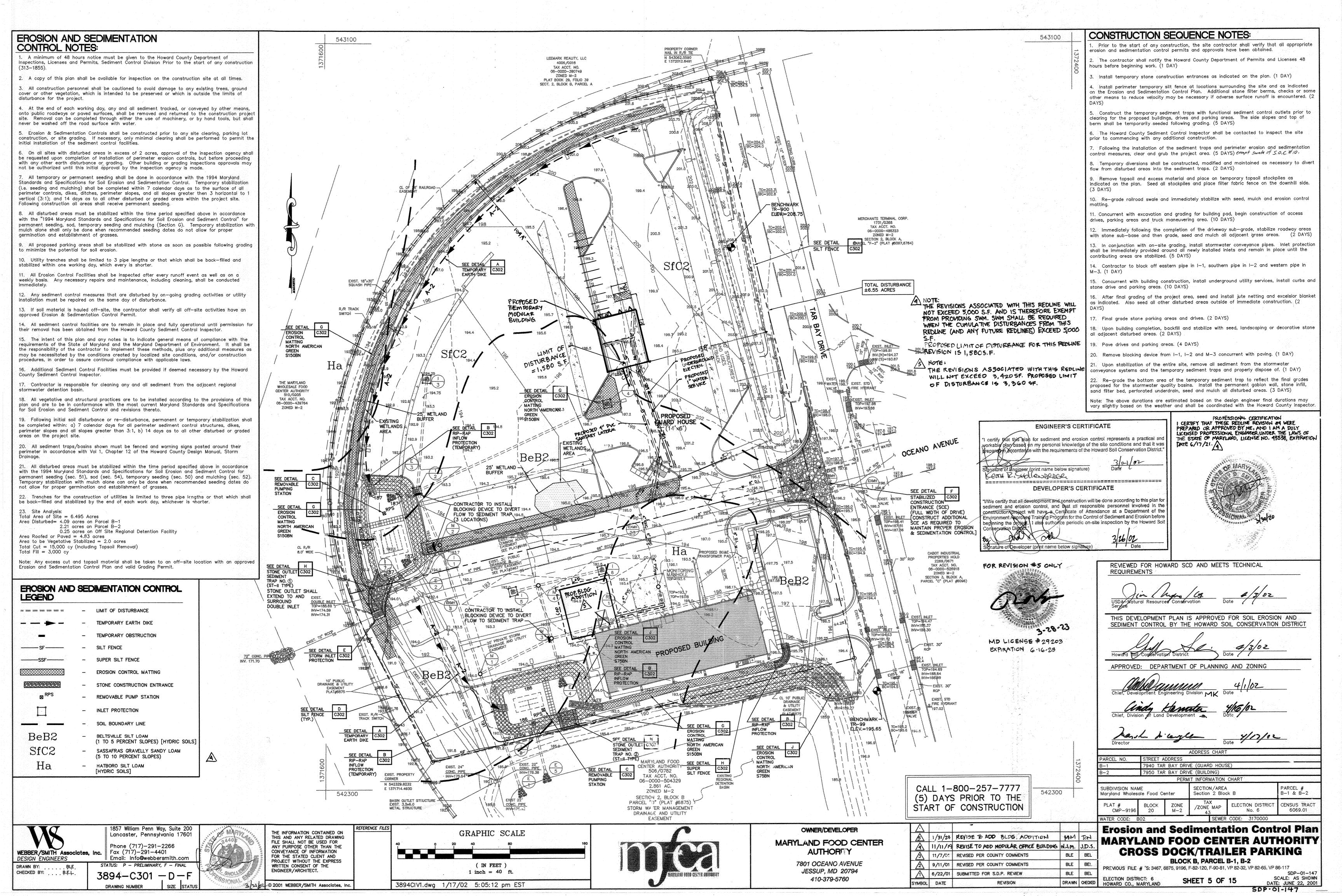
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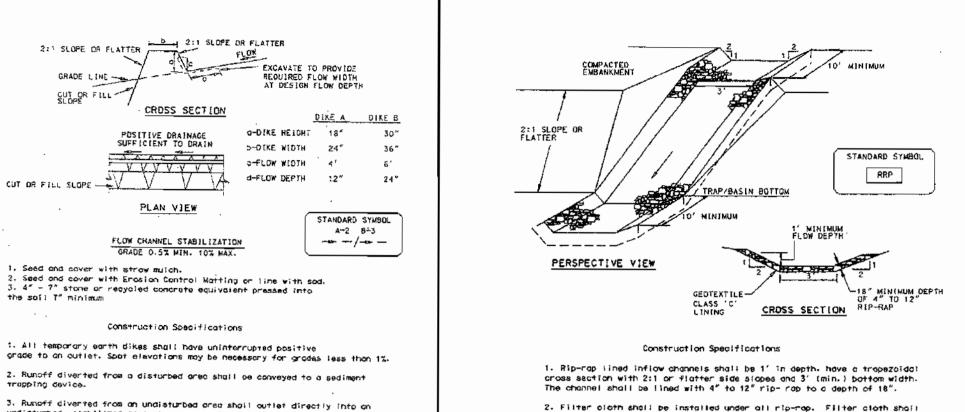
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SDP-01-147 SCALE: AS SHOWN DATE: JUNE 22, 2001 SDP-01-147







2. Filter cloth shall be installed under all rip-rop. Filter cloth shall undisturbed, stabilized area at a non-erosive velocity.

> 4. Rip-rap used for the lining may be recycled for permanent outlet protection if the basin is to be converted to a stormwater management

ES ALUMINUM

EMBES THETER CLOTH AT

CHAIN LINK FENCING-

Construction Specifications

with the latest Maryland State Highway Details for Chain Link

Fencing. The specification for a 6 foot fence shall be used.

substituting 42 Inch fabric and 6 foot length posts.

posts with wire ties or stopies.

shall be overlopped by 5" and tolded.

Secring and the 42 lockes in height and constructed in accordance

Chain link fence shall be fastened securely to the fence

I. Filter cloth shall be fastened securely to the chain link

fence with ties spaced every 24" of the top and mid section.

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

5. When two sections of filter cloth adjoin each other. they

6. Maintenance shall be performed as needed and slift buildups

SUPER SILT FENCE

HE INFORMATION CONTAINED ON

THIS AND ANY RELATED DRAWING FILE SHALL NOT BE USED FOR

ANY PURPOSE OTHER THAN THE

PROJECT WITHOUT THE EXPRESS

CONVEYANCE OF INFORMATION FOR THE STATED CLIENT AND

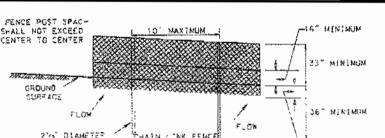
Siepe Length

(maximum)

Besign Criteria

removed when "buildes develop in the silt fence.

# RIP-RAP INFLOW PROTECTION



STATE DEAMETER GALVANIZED GR

3" MENIMUM POST AND CHO

S" MIN. 157 LAYER "F" FLIER CLOTH

STANDARD SYMBO

Silt Fence Length

Uniimited

1.500 feet

1-000 7001

(maximum)

Erosion control marting is used to temporarily stabilize channels or steep slopes until vegetation is established. There are many types of matting available: The crossion control matting that is used must withstand velocities of \$ teet per segond. Conditions Where Practice Applies

4. All trees, brush, stumps, obstructions, and other objectional material

5. The dike shall be excavated or shaped to line, grade and cross section as

7. All sorth removed and not needed for construction shall be placed so that

22.0 STANDARD AND SPECIFICATIONS

EROSION CONTROL MATTING

8. Inspection and maintenance must be provided periodically and after

required to meet the criterio specified herein and be free of bank projections

shall be removed and disposed of so as not to interfere with the proper

or other irregularities which will impede normal flow

6. Fill shall be compacted by earth moving equipment.

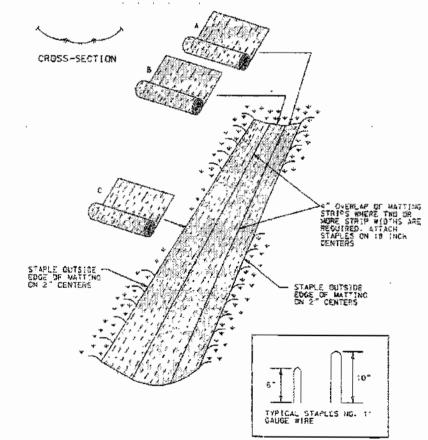
functioning of the dike.

Mattings are used to stabilize the flow channels of dikes and swales where the velocity is under 6 feet per second. They may also be used on tidal or stream banks where moving water is likely to wash out new vegetative plantings.

Some channels will require multiple widths of matting, with two widths being the most commonly used.

Unroll the matting starting at the upper end of the channel, allowing a 4" everlup of mattings along center of channel. The sequence of construction should be as follows:

- Bury the top easts of the matting in a narrow treach, 6" in depth. Backilli the treach and tump firmly to conform to the channel gaoss-section. Secure with a row of staples about 4' down slope from the trench. Spacing between staples is 6°.
- 2. Staple the 4' overlap in the channel center spacing the staples 18" apact. Make sure the matting is smooth and in firm contact with the soil, then staple the other edges of the
- matting. Staples shall be placed 2' apart with 4 rows for each steep, 2 other rows, and 2 alternating
- . Where one roll of matting ends and another begins, the end of the top step shall overlap the upper and of the lower strip by 4'; shiplep fashion. Reintocce the overlap with a double row of staples spaced 6" apart in a suggered pattern on either side. The discharge end of the matting liner should be similarly secured with 2 double rows of staples.
- . The protestive matting can be laid over surigged areas where small grass plants have been planted. Where ground covers are to be planted, say the protective malting first and then plant through the matting according to the landscape design.



Construction Specifications

. Key-in the matting by piccing the top ends of the matting in a normal trength 6" in death. Sacketiti the trench and temps firmly to conform to the channel cross-section. Secure with a row of stoples about 4" down slope from the transm. Spacing between staples is

2. Steple the 4" overlap in the channel center using an 15" spacing Before stopling the outer edges of the motting, make sure the motting is smooth and in firm contact with the soil.

4. Stables shall be pigeed 2" apart with 4 have for each strip, 2 outer names, and 2 giternating name down the center. 5. where one to 1 of matting ends and another begins, the end of the top strip short overlop the upper end of the lower strip by 4".

ship to feshion. Reinforce the overlap with a couple row of stables spaced 6" open in a stoogered pattern on either side. The discharge and of the marting liner should be similarly secured with 2 double rows of stoples.

Note: [4 flow will enter from the edge of the aborting them the area affected by the flow must be keyed-in.

**EROSION CONTROL MATTING** 

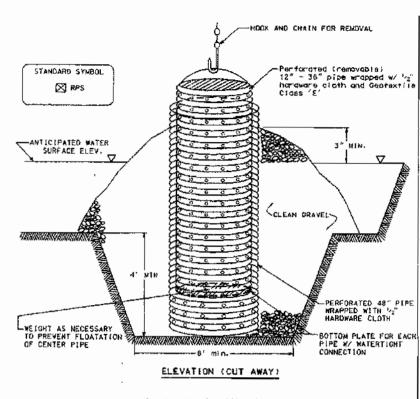
WEBBER/SMITH Associates, Inc. DESIGN ENGINEERS DRAWN BY: .... BLE. CHECKED BY: .... B.E.L.

1857 William Penn Way, Suite 200 Lancaster, Pennsylvania 17601 Phone (717)-291-2266 Fax (717)-291-4401 Email: Info@webbersmith.com STATUS: P - PRELIMINARY, F - FINAL

3894-C302 - D-F DRAWING NUMBER SIZE STATUS 3. Entrance and exit sections shall be installed as shown on the detail

5. Gobion Inflow Protection may be used in lieu of Rip-rap Inflow

6. Rip-rap should blend into existing ground. 7. Rip-rop Inflow Protection shall be used where the slope is between 4:1 and 10:1, for slopes flatter than 10:1 use Earth Dike or Temporary Swale



Construction Specifications 2. After installing the outer pipe, bookfill around outer pipe with 2" aggregate or alean grayet. 4. The center pipe should extend 12" to 18" obove the ontlicipated water surface elevation or riser crest elevation when dewatering a bosin.

# REMOVABLE PUMPING STATION

FRITER CLUTH LINING -

permonent works.

the stone will occur.

12"

12"

12'

12'

EXISTING STABILIZED

I' MENEMEN

ELEVATION

SECTION A-A

in the subgrade shall be compacted to a density of

Construction Specifications

1. The subgrade for the filter, rip-rop, or gabien shall be

approximately that of the surrounding undisturbed material.

2. The rock or grove! shall conform to the specified grading

limits when installed respectively in the rip-rap or filter.

3. Geofextile shall be protected from punching, cutting, or

be repaired by placing another place of gentextile over the

damaged part or by completely replacing the geotextile. All

4. Stone for the rip-rap or gabion outlets may be placed by

displacement of underlying materials. The stone for rip-rop

or gablen outlets shall be delivered and placed in a manner

that will ensure that it is reasonably homogeneous with the

smaller stones and spalls filling the voids between the larger

stones. Rip-rop should be placed in a manner to prevent damage

to the filter blanket or geotextile. Hand placement will be

required to the extent necessary to prevent damage to the

5. The stone shall be placed so that It blends in with the existing ground. If the stone is pigged too high then the

15"

18"

18"

18**"** 

\* - AS REQUIRED TO EXTEND TO EXISTING BASIN BOTTOM

flow will be forced out of the channel and secur adjacent to

19"

19"

19"

ROCK OUTFALL PROTECTION

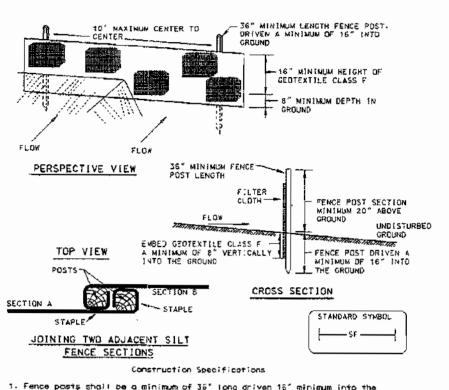
equipment. They shall be constructed to the full course thickness in one operation and in such a manner as to avoid

overtups whether for repairs or for joining two pieces of

geotextile shall be a minimum of one foot.

tearing. Any demage other than an occasional small hole shall

prepared to the required lines and grades. Any fill required



t. Fence pasts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be  $1^{1}2^{n}\times 1^{1}2^{n}$  square (minimum) cut, or  $1^{3}2^{n}$  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 bond per linear foo-2. Geotaxtile shall be fostened securely to each fence post with wire ties r staples at top and mid-section and shall meet the following requirements for Geotextile Class F

Tensile Strength 50 lbs/in (min.) Tensile Modulus 0.3 gal ft2/ minute (mgx.) Test: MSMT 322 Filtering Efficiency 75% (min.) 3. Where ends of geometrile fabric come together, they shall be overlapped.

4. Siit Femice shall be inspected after each roinfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height. \* All silt fence shall be turned up—hill 2' at terminus.

# SILT FENCE

folded and stopled to prevent sediment bypass.

TOP OF EMBANKMENT

-SMALL RID-RAP 4" TO 7"

Construction Specifications

compacted by traversing with equipment while it is being

3. All cut and fill slopes shall be 2:1 or flatter.

1. Area under empanament shall be discred, anubbed and stripped of

2. The fill mester(a) for the embankment shall be free of roots and

material or other phinoticophile material. The embankment shall be

4. The stone used in the outlet shall be small rip-rop 4" to 7" in

size with a 1' thick layer of  $^3\sqrt{}$  to  $1^1\sqrt{}$  washed aggregate placed

necessary to prevent ologging. Contextile Class C may be substituted for the stone facing by pracing it on the inside face

on the upstream face of the outlet. Stone facing shall be as

5. Sediment shall be removed and trap restored to its original

6. The structure shot! be inspected periodically and after each main and

pollution is oboted. Once constructed, the top and outside face of the

8. The structure shall be dewatered by approved methods, removed and the

11. The elevation of the top of any dike directing water into the trop must

outlet channel prior to the placement of stone. Sections of filter cloth must

overlop at least 1' with the section necrest the entrance placed on top. The

13. Dutiet - An outlet shall be provided. Including a means of conveying the

filter cloth shall be embedded at least 6" into existing ground of the entrance

12. Geotextile Class C shall be placed over the bottom and eides of the

area stabilized when the drainage area has been properly stabilized.

9. Refer to Section D for specifications concerning trap devotering.

10. Minimum trap depth shall be measured from the weir elevation.

discharge in an erasion free manner to an existing stable channel.

7. Construction of traps shall be corried out in such a manner that sediment

embankment shall be stabilized with seed and mulch. Points of concentration

inflow shall be protected in accordance with Grade Stabilization Structure

criteria. The remainder of the interior slopes should be stobilized (one time)

with seed and mutch upon trup completion and monitored and maintained erosion

dimensions when the sediment has accumulated to one half of the

wet storage depth of the trop. Removed sediment shall be deposited in a suitable area and in such a manner that it will not crode.

MEIR LENGTH 4' MAX.

SECTION 8-8

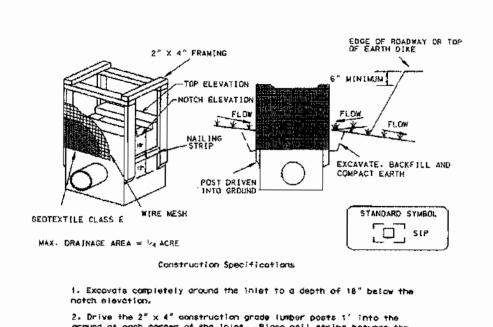
BOTTOM ELEVATION

of the stone outlet.

free during the life of the trap.

EXISTING THE THE GROUND

1' NIN



ground at each corner of the injet. Place noil strips between the posts on the ends of the injet. Assemble the top portion of the 2" x 4" frome using the overloo joint shown on Detail 23A. The top of the frame (weir) must be 6" below adjacent roadways where flooding and safety issues may arise.

3. Stretch the 1/2"  $\times$  1/2" wire mesh flightly around the frame and fasten securely. The ends must meet and overlap at a

4. Stratch the Captextile Cioss & fightly over the wire mesh with the geotixtile extending from the top of the frome to 18" below the Inlet notch elevation. Fasten the geotextile firmly to the frame The ends of the geotextile must meet at a post, be overtapped and

5. Bookfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and 5. If the inlet is not in a sump, construct a compacted earth dike should be at least 6" higher than the top of the frame. 7. The structure must be inspected periodically and after each

## STANDARD INLET PROTECTION

rain and the geotextile replaced when it becomes alonge

XISTING PAVEMENT EARTH FILL \*\* GEOTEXTILE CLASS 'C'~ -----PIPE AS NECESSARY OR BETTER MINIMUM 6" OF 2"-1" AGGREGATE EXISTING CROUND PROF ILE Construction Specification

1. Length - minimum of 50' (#30' for single residence tot). 2. Width - 10' minimum, should be flored at the existing road to provide a turning 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior

to placing stone. \*\*The pion opproval authority may not require single family 4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 5" deep over the length and width of the

5. Surface Water - gi: 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 stopes 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 sipe will not be necessary. Pipe should be sized occording 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 troffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entirence

### STABILIZED CONSTRUCTION ENTRANCE

## DRY VOLUME (CF) VOLUME (CF) 10800 5400 5400 9000 3.0 14400 105 16200 4.0 110 10 IV 36000 18000 18000 4.0 123 -) - PIPE OUTLET (POST), () - STONE OUTLET (SOST), IV - STONE/RIPRAP OUTLET (SROST) 1. The length to width ratio should be 2:1. 2. Minimum length and width dimensions apply to the bottom of the traps.

- 3. The side slopes will be 2:1 or flatter.
- 4. If the stone outlet is used in conjunction with rip-rap channel protection then the storage requirement will be 3600 cubic feet per acre. If the stone outlet and rip-rap anron are used, the length of the aprop will be a minimum of 10'

# 9.2 Stone Outlet Sediment Trap ST-II

PERSPECTIVE VIEW

This practice consists of a trap formed by an embankment or excavation. The outlet of this trap is over a stone section placed on level ground. The minimum length weir (feet) of the outlet shall be equal to four (4) times the drainage area (acres)

The outlet crest (top of stone in weir section) shall be level, at least 1' foot below the top of the embankment and no more than 3' above ground beneath the outlet. 4" to 7" stone" or recycled concrete equivalent over Geotextile Class C15 shall be used in the outlet. A 1' thick layer of 3/4" to 1 1/2" washed aggregate khall be placed on the nostream face of the outlet. Geotextile Class C placed up the upstream face of the outlet may

## Note: Stone outlet sediment trups shall be limited to a 5 acre maximum drainage area.

- Construction Specifications . The area under the embankment shall be cleared, grobbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- 3. All cut and fill slopes shall be 2:1 or flatter.
- 4. The stone used in the outlet shall be 4" 7" stone with a 1' thick layer of 3/4" to 1 1/2" washed aggregate placed on the upstream face of the outlet. Stone facing shall be maintained as necessary to prevent clogging. Geotextile Class C may be substituted for the stone facing by placing it on the inside face of the outlet.
- 5. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to one half of the wet storage depth of the trap. Kemoved sediment shall be deposited in a suitable area and in such a manner that it will not erode
- 6. The structure shall be inspected periodically and after each rain and repairs made as needed, 7. Construction of traps shall be carried out in such a manner that sediment pollution is abated Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. Points of concentrated inflow shall be protected in accordance with Grade Stabilization Structure criteria. The remainder of the interior slopes should be stabilized (one time) with seed and mulch upon trap completion and monitored and maintained erosion free during the life of the

| SEDIMENT TRAP NUMBER                  | 1      | 2          |
|---------------------------------------|--------|------------|
| TRAP TYPE                             | ST II  | ST II      |
| DRAINAGE AREA (5 ACRE MAX) AC         | 3,5    | 2          |
| REQUIRED CAPACITY (3600 CF/AC) CF     | 12,600 | 7,200      |
| AVERAGE BOTTOM LENGTH (FT)            | 91     | 78         |
| AVERAGE BOTTOM WIDTH (FT)             | 43     | <b>3</b> 7 |
| SIDE SLOPES H: V                      | 2:1    | 2:1        |
| TOP OF EMBANKMENT ELEVATION           | 192    | 191        |
| WEIR ELEVATION(DRY)/CREST OF SPILLWAY | 190    | 189        |
| DRY VOLUME                            | 9694   | 7483       |
| CLEAN-OUT ELEVATION (@ 700 CF/AC)     | 187.75 | 186.5      |
| TRAP BOTTOM ELEVATION                 | 187    | 186        |
| PROVIDED CAPACITY CF                  | 14,303 | 10,880     |
| WEIR LENGTH (4'/AC) LF                | 14     | 8          |
| OUTLET SIDE SLOPE                     | 2:1    | 2:1        |
| OUTLET ELEVATION (WET)                | 188.53 | 187.14     |
| WET VOLUME                            | 4609   | 3397       |
|                                       |        |            |

NOTE: SEE STONE OUTLET SEDIMENT TRAP ST-II DETAIL (SHEET 5 OF 15)

1.5

3.5 2

PRE-DEV TO TRAP

POST-DEV TO TRAP

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING

| ADDRESS CHART                                      |             |                                  |                                   |                            |                         |  |  |  |
|--|-------------|----------------------------------|-----------------------------------|----------------------------|-------------------------|--|--|--|
| PARCEL NO.   | STREET A    |                                  |                                   |                            |                         |  |  |  |
| B1   | 7940 TAR    | 7940 TAR BAY DRIVE (GUARD HOUSE) |                                   |                            |                         |  |  |  |
| B-2  | 7940 TAR    | 7940 TAR BAY DRIVE (BUILDING)    |                                   |                            |                         |  |  |  |
| PERMIT INFORMATION CHART                           |             |                                  |                                   |                            |                         |  |  |  |
| SUBDIVISION NAME<br>Maryland Wholesale Food Center |             |                                  | SECTION/AREA<br>Section 2 Block B |                            | PARCEL #<br>B-1 & B-2   |  |  |  |
| PLAT #<br>CMP-9196                                 | BLOCK<br>20 | ZONE<br>M-2                      | TAX<br>/ZONE MAP<br>43            | ELECTION DISTRICT<br>No. 6 | CENSUS TRACT<br>6069.01 |  |  |  |
| WATER CODE: B                                      | 02          |                                  | SEWER                             | SEWER CODE: 3170000        |                         |  |  |  |
|  |             |                                  |                                   |                            |                         |  |  |  |

**Erosion and Sedimentation Control Details MARYLAND FOOD CENTER AUTHORITY** CROSS DOCK/TRAILER PARKING

HOWARD CO., MARYLAND

BLOCK B, PARCEL B-1, B-2

DEVELOPER'S CERTIFICATE "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 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 Soil Conservation District. 3-26-02 Signature of Developer (print name below signature ENGINEER'S CERTIFICATE

"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 Soit Conservation District." 3/21/02 Signature of Engineer (print name below signature)

KEAH 12 SHOVENBERGER

7801 OCEANO AVENUE JESSUP, MD 20794 410-379-5760

**AUTHORITY** 

3 11/7/01 REVISED PER COUNTY COMMENTS BLE BEL 9/11/01 REVISED PER COUNTY COMMENTS BLE BEL 6/22/01 SUBMITTED FOR S.D.P. REVIEW BLE BEL

SCALE: AS SHOWN DATE: JUNE 22, 2001 SDP-01-147

WRITTEN CONSENT OF THE ENGINEER / ARCHITECT. 3 21 02 @ 2001 WEBBER/SMITH Associates, Inc. 3894C302.dwg 1/18/02 11:15:36 am EST

EFERENCE FILES

CALL 1-800-257-7777 (5) DAYS PRIOR TO THE START OF CONSTRUCTION

OUTLET NO.

E-2

E---3

E-4

E-5

THICKNESS RIP-RAP SIZE PER SHA SPECS

CLASS 1

CLASS I

CLASS I

CLASS I

CLASS I

OWNER/DEVELOPER MARYLAND FOOD CENTER

SYMBOL DATE

DRAWN CHECKED

PREVIOUS FILE #'s: 3467, 6875, 9196, F-82-120, F-90-81, VP 82-32, VP 82-65, VP 86-117 SDP-01-147

SHEET 6 OF 15

# 21.0 STANDARD AND SPECIFICATIONS

### TOPSOIL

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nurrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

#### Conditions Where Practice Applies

- I. This practice is limited to areas having 2:1 or flatter slopes where
- a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is not deep enough to support plants or
- furnish continuing supplies of moisture and plant nutrients.
- c. The original soil to be vegetated contains material toxic to plant growth.
- d. The soil is so acidic that treatment with limestone is not feasible
- II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shows on the plans.

#### 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-SCS 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, 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, slay, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1/4" in diameter.
- ii. Topsoil must be free of plants or plant parts such as bermeda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
- iii. 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) trior to the placemen 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
- II. For sites having disturbed areas under 5 acres
- 1. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materi
- III. For sites having disturbed areas over 5 acres:
- i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime mendments required to bring the soil into compliance with the following:
- a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be perscribed to raise the pH to 6.5 or higher
- b. Organic content of topsoil shall be not less than 1.5 percent by weight.
- c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
- d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permi dissipation of phyto-toxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientistand approved by the appropriate approval authority, may be used in lieu of natural topsoi

- ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Ma

shall conform to the following requirements:

- i. When topsoiling, maintain needed crosson and sediment control practices such as diversions Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Trans and Basins.
- ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
- iii. Topsoil shall be uniformly distributed in a 4" 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise he detrimental to proper grading and seedbed preparation.
- VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted studge and amendments may be applied as specified below
- Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5. acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres
- a. Composted sludge shall be supplied by, or originate from, a person or persons that are
- permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06 b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2
- percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements. the appropriate constituents must be added to meet the requirements prior to use.
- c. Composted studge shall be applied at a rate of 1 ton/1,000 square feet.
- iv. Composted studge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.
- References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revisal 1973.

### STABILIZATION SPECIFICATIONS

### VEGETATIVE STABILIZATION METHODS AND MATERIALS

### A. Site Preparation

- 1. Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control
- 2. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
- 3. Schedule required soil tests to determine soil amendment composition and
- application rates for sites having disturbed area over 5 acres. B. Soil Amendments (Fertilizer and Lime Specifications)
- 1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 areas. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples may be taken for engineering purposes may also be used
- 2. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and
- shall bear the name, trade name or trademark and warrantee of the producer. 3. Lime materials shall be ground timestone (hydrated or burnt time may be substituted) which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass
- through a #100 mesh sleeve and 98-100% will pass through a #20 mesh sleeve. 4. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable
- 5. Soil Amendments: Use only one of the following schedules
- a. Preferred Apply 2 tons per acre dolomitic limestone (92 lbs./100 s.f.) and 600 lbs. per aere 10-10-10 fertifizer (14 lbs./100 s.f.). Before seeding, harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 auriform fertilizer (9.1 lbs./100 s.f.).
- . Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs./1000 s.f.) and 1000 lbs. Per acre 10-10-10 fertilizer (23 lbs/1000 s.f.) before seeding, harrow or disc upper three inches of soil.

#### Seedbed Preparation 1. Temporary Seeding

- a. Seedbed preparation shall consist of loosening soil to a depth of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth but left in the roughened condition. Sloped areas (greater than 3:1) should not be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
- b. Apply fertilizer and lime as prescribed on the plans.
- c. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other

### 2. Permanent Seeding

- a. Minimum soil conditions required for permanent vegetative establishment: 1) Soil pH shall be between 6.0 and 7.0.
- 2) Soluble salts shall be less than 500 parts per million (ppm).
- 3) The soil shall contain less than 40% clay but enough fine grained material (>30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if love grass or serecia lespedeza is to be planted, then a sandy soil (<30% silt plus clay) would be acceptable.
- 4) Soil shall contain 15% minimum organic matter by weight.
- 5) Soil must contain sufficient pore space to permit adequate root penetration.
- 6) If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.
- b. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
- Apply soil amendments as per soil test or as included on the plans
- d. Mix soil amendments into the top 3-5" of topsoil by disking or other suitable means. I awn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seedbed loosening may not be necessary on newly disturbed areas.

- . All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have heen tested within the 6 months immediately preceding the date of sowing such
- 2. Inoculant The inoculant for treating legume seed in the seed mixture shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. NOTE: It is very important to keep inoculant as cool as possible until used. Temperatures above 75-80 degrees F. can weaken bacteria and make inoculant less effective.

NOTE: SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED.

## E. Methods of Seeding

- 1. Hydrosecding: Apply seed uniformly with hydrosecder (slurry includes seed and fertilizer), broadcast or drop seeder, or a cultipacker seeder.
- a. If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen; maximum of 100 lbs. per acre total soluble nitrogen; P205 (phosphorus): 200 lbs./ac.: K20 (notassium): 200 lbs./ac.
- b. Lime use only ground agricultural limestone. (Up to 3 tons per acre may be applied by hydroscoding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated time when
- c. Seed and fertilizer shall be mixed on site and seeding shall be done immediately

#### 2. Dry Seeding: This includes use of conventional drop or broadcast spreaders.

a. Cultipacking seeders are required to bury the seed in such a fashion as to provide

at least 1/4 inch of soil covering. Seedbed must be firm after planting.

1. Straw shall consist of thoroughly threshed wheat, tye or out straw, reasonably bright

a. WCFM shall consist of specially prepared wood cellulose processed into a

b. WCFM shall be dyed green or contain a green dye in the package that will

c. WCFM, including dye, shall contain no germination or growth inhibiting factors.

wood cellulose fiber mulch will remain in uniform suspension in water under

agitation and will blend with seed, fertilizer and other additives to form a

homogeneous siurry. The mulch material shall form a blotter-like ground cover,

on application, having moisture absorption and percolation properties and shall

cover and hold grass seed in contact with the soil without inhibiting the growth

e. WCFM material shall contain no elements or compounds at concentration levels

approximately 10 mm. diameter approximately 1mm. PH range of 4.0 to 8.5 ash

f. WCFM must conform to the following physical requirements: fiber length to

NOTE: ONLY STERILE STRAW MULCH SHOULD BE USED IN AREAS

Mulching Seeded Areas - Mulch shall be applied to all seeded areas immediately after

1. If grading is completed outside of the seeding season, mulch alone shall be applied

2. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2

tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2".

Mulch applied shall achieve a uniform distribution and depth so that the soil surface

is not exposed. If a mulch anchoring tool is to be used, the rate should be increased

3. Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500

lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture

shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.

immediately following mulch. Mulch anchoring shall be performed immediately

following mulch application to minimize loss by wind or water. This may be done by

one of the following methods (listed by preference), depending upon size of area and

1. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor

mulch into the soil surface a minimum of two (2) inches. This practice is most

effective on large areas, but is limited to flatter slopes where equipment can operate

safely. If used on sloping land, this practice should be used on the contour if

2. Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be

Application of liquid binders should be heavier at the edges where wind catches

mulch, such as in valleys and on the crests of banks. The remainder of area should

appear uniform after binder application. Synthetic binders - such as Acrylic DLR

(Argo-Tac), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal

4. Lightweight plastic netting may be stapled over the mulch according to

Vegetation - annual grass or grain used to provide cover on disturbed areas for up to 12

Select one or more off the species or mixtures listed in Table 25 for the appropriate

Plant Hardiness Zone (from figure 5) and enter them in Permanent Seeding

Summary below, along with application rates and seeding dates. Seeding depths can

be estimated using Table 26. If this Summary is not put on the construction plans

and completed, then Table 25 must be put on the plans. Additional planting

specifications for exceptional sites such as shorelines, stream banks, dunes or for

special purposes such as wildlife or aesthetic treatment may be found in USDA-SCS

Technical Field Office Guide, Section 342 - Critical Area Planting. For special lawn

2. For sites having disturbed areas over 5 acres, the rates shown on this table shall be

3. For areas receiving low maintenance, apply ureaform fertilizer (46-0-0) at 3-1/2

Ibs/1000 sq. ft. (150 lbs/ac). In addition to the above soil amendments shown in the

deleted and the rates recommended by the testing agency shall be written in.

Seeding grass and legumes to establish ground cover for a maximum period of one year on

. Select one or more off the species or mixtures listed in Table 25 for the appropriate Plant Hardiness Zone (from Figure 5) and emer them in Permanent Seeding

Summary below, along with application rates and sceding dates. Seeding depths can

be estimated using Table 26. If this Summary is not put on the construction plans and completed, then Table 25 must be put on the plans. Additional planting specifications for exceptional sites such as shorelines, stream banks, dunes or fo

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2. For sites having disturbed areas over 5 mass, the rates shown on this table shall be

3. For areas receiving low maintenance, apply urgaform fertilizer (46-0-0) at 3-1/2

Ibs/1000 eq. ft. (150 lbs/ac). In addition to the above soil amendments shown in the

deleted and the rates recommended by the testing agency shall be written in.

IV. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR

1. Class of turigrass sod shall be Maryland or Virginia State Certified or Approval. Sod labels shall be made available to the job foreman and inspector.

2. Sod shall be machine cut at a uniform soil thickness of "4", plus or primes "4", at the

time of cutting. Measurement for thickness shall exclude top growth and thatch 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. Broket

3. Standard size sections of sod shall be strong enough to support their own weight and

4. Soil shall not be harvested or transplanted when moisture content (excessively dry or

5. Sod shall be harvested, delivered, and instalted within a period of 36 hours. Sod not ransplanted within this period shall be approved by an agronomist or soil scientist

retain their size and shape when suspended vertically with a firm grasp on the upper

months. For longer duration of vegetative cover Permanent Scoding is required.

maintenance areas. See Sections IV Sod and V Turforass.

table below, to be performed at the time of seeding.

maintenance areas. See Section IV Sod and V Turfgrass.

table below, to be performed at the time of seeding.

pads and torn or uneven ends will not be acceptable

disturbed areas generally receiving low maintenance

A Seed Mixtures a Permanent Seeding

III. PERMANENT SEEDING.

A. General Specifications

manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet

may be used at rates recommended by the manufacturer to anchor mulch.

applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be

mixed with water and the mixture shall contain a maximum of 50 pounds of wood

H. Securing Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed

seeding can be performed in accordance with these specifications.

as prescribed in this section and maintained until the seeding season returns and

content of 1.6% maximum and water holding capacity of 90% minimum.

provide an appropriate color to facilitate visual inspection of the uniformly

shall be free of noxious weed seeds as specified in the Maryland Seed Law.

other. Apply half the seeding rate in each direction.

F. Mulch Specifications (In order of preference)

Wood Cellulose Fiber Mulch (WCFM)

uniform fibrous physical state.

spread slurry.

of the grass seedings.

that will be phyto-toxic.

to 2.5 tons/acre.

cellulose fiber per 100 gallons of water.

wide and 300 to 3000 feet long.

WHERE ONE SPECIES OF GRASS IS DESIRED.

- Under unusual circumstances where there is insufficient time for a complete soil test, a. Seed spread dry shall be incorporated into the subsoil at the rates prescribed on fertilizer and time may be applied in amounts shown under 6 (b) below. the Temporary or Permanent Seeding Summaries or Tables 25 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil a. Prior to sodding, the surface will 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. b. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction,
- b. Where soil is acid or composted of heavy clays, ground limestone will be spread at the rate of 2 tons per acre (100 lbs/1000 sf). In all soils 1000 lbs. per acre (25 3. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with lbs/1000 st) of 10-10-10 fertilizer or equivalent will be uniformly applied and mixed into the top three inches of soil with the required time.
  - c. All areas receiving sod will be uniformly fine graded. Hard packed earth will be scarified prior to placement of sod.

6. Site Preparation: Fertilizer and time application rates will be determined by soil test.

### b. Where practical, seed should be applied in two directions perpendicular to each B. Sod Installation

- 1. During periods of excessively high temperature or in areas having dry subsoil, the subsoil shall be lightly irrigated immediately prior to laying the sod.
- 2. 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 in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids, which would
  - 3. Wherever possible, sod shall be laid with the long edges parallel to the contour and with staggering joints. Sod shall be rolled and tamped, pegged or otherwise secured to prevent slippage on slopes and to ensure solid contact between sod roots and the underlying soil surface.
  - 4. Sod shall be watered immediately following rolling or tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. The operations of laying, tamping and irrigating for any piece of sod shall be completed within eight

#### d. WCFM materials shall be manufactured and processed in such a manner that the C. Sod Maintenance

- 1. 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 moist soil to a depth of 4". Watering should be done during the heat of the day to prevent wilting.
- 2. After the first week, sod watering is required as necessary to maintain adequate
- 3. The first moving of sod should not be attempted until the sod is family 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" unless otherwise

#### V. TURFGRASS ESTABLISHMENT

cause drying of the roots.

Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites, which will receive a medium to high level of maintenance. Areas to receive seed shall be tilled by dicking or other approved methods to a depth of 2 to 4 inches, leveled and raked to prepare a proper seedbed. Stones and debns over 1-1/2 inches in diameter shall be removed. The resulting seedbed shall be in such condition that future mowing of grasses will pose no difficulty.

NOTE: Choose certified material. Certified material is to the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic

### A. Turfgrass Mixtures

- 1. Kentucky Bluegrass Fall sun mixture For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and eastern shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds/1000 square feet. A minimum of three bluegrass cultivars should be chosen ranging from a minimum of 10% to a maximum of 35% of the mixture by weight.
- 2. Kentucky Bluegrass/Perennial Rye Full sun mixture For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Sceding rate: 2 pounds mixture/1000 square feet. A minimum of 3 Kentucky Bluegrass Cultivars must be chosen, with each cultivar ranging from 10% to 35% of the mixture by weight.
- 3. Tall Fescue/Kentucky Bluegrass Full sun mixture For use in drought prone areas and/or for acres receiving low to medium management in full sun to medium shade. Recommended mixture includes; certified Tall Fescue Cultivars 95-100%, certified Kentucky Bluegrass Cultivars 0-5%. Seeding rate 5 to 8 lb./1000 square feet. One or more cultivars may be blended
- 4. Kentucky Bluegrass/Fine Fescue Shade Mixture For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; certified Kentucky Bluegrass Cultivars 30-40% and certified Fine Fescue and 60-70%. Seeding rate: 1-1/2 - 3 lbs/1000 square feet. A minimum of 3 minimum of 10% to a maximum of 35% of the mixture by weight.

NOTE: Turfgrass varieties should be selected from those listed in the most current University of Maryland Publication, Agronomy Mineo #77, "Turfgrass Cultivar Recommendations for Maryland".

# B. Ideal Times of Seeding

- 1. Western MD: March 15-June 1, August 1-October 1 (Hardiness Zones 5b, 6a)
- 2. Central MD: March 1-May 15, August 15-October 15 (Hardiness Zones 6b)
- 3. Southern MD, Eastern Shore: March 1-May 15, August 15-October 15 (Hardiness Zones 7a, 7b)

# C. Imigation

If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2" - 1" every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites

Inspect all seeded areas for failures and make necessary repairs, replacements, and reseedings within the plenting season.

- 1. Once the vegetation is established, the site shall have 95% groundcover to be considered adequately stabilized.
- 2. If the stand provides less than 40% ground coverage, reestablish following original lime, fertilizer, seedbed proparation and seeding recommendations.
- 3. If the stand provides between 40% and 94% ground coverage, overseeding and

of Maryland publication "Lawn Care in Maryland" Bulletin No. 171.

fertilizing using half of the rates originally applied may be necessary. 4. Maintenance fertilizer rates for permanent seedings are shown in Table 24. For lawns and other medium to high maintenance turf grass areas, refer to the University

# DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control and that a" 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 protect. I also authorize periodic on-site inspection by the Howard Soil Conservation District.

# **ENGINEER'S CERTIFICATE**

Signature of Developer (print name below signature)

"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) 3/21/02

KEITH TO SHOllow Beston

Table 26 Temporary Seeding Rates, Depths, and Dates

PERMANENT SEEDING FOR LOW MAINTENANCE AREAS

SITE

CONDITIONS

TO DRY

HARDI-

PLANTING

LBS/AC. LBS/1000

SQ. FT.

2.9

.34

NOTES: C: POPULAR MIX - PRODUCES PERMANENT GROUND COVER QUICKLY. BLUEGRASS THICKNESS STAND.

FERTILIZER RATE

(10-20-20)

P205

PERMANENT SEEDING

90 LB/AC. |125 LB/AC. |175 LB/AC. | 2 TONS/AC.

(2.0 LB/ (4.0 LB/ (4.0 LB/ (100 LB/ 1000 S.F.) 1000 S.F.) 1000 S.F.)

R20

**FERTILIZER RATES** 

N

SEED MIX

(USE CERTIFIED MATERIAL

PERFUNIAL RYEGRASS (10%)

KENTUCKY BLUEGRASS (5%)

TEMPORARY SEEDING

RATE

2 TONS/AC.

100 LB/1000 S.F.

FERTILIZER RATE

(10-10-10)

600 LB/AC.

(15/1000 S.F.)

TALL FESCUE (85%).

IF AVAIILABLE)

MIX

RECOMMENDED PLANTING DATES

ZONES 5/15 6/1 8/14 7/31 10/10 10/15 11/15

| 3/1- | 3/15- | 5/16- | 6/2- | 8/1- | 8/15- | 8/15- | NOTES

| SPECIES  | minimum seeding rates                                    |                      | PLANTING<br>DEPTIF | HARDINESS ZONES <sup>97</sup> AND SEEDING DATES <sup>34</sup> |                |                  |              |              |                       |               |              |                      |
|--|--|----------------------|--------------------|---|----------------|------------------|--------------|--------------|-----------------------|---------------|--------------|----------------------|
|  |  |                      |                    | 7a and 7h   |                | 6b               |              |              | 6a and 5b             |               |              |                      |
|  | PER ACRE   | LBS/1000<br>SQ.FT.   | INCHES             | 2/1-<br>4/30  | 5/1 -<br>8/4 4 | 8/15-<br>11/30   | 3/1-<br>4/30 | 5/1-<br>8/14 | 8/15-<br>11/15        | 3/15-<br>5/31 | 6/1-<br>7/31 | 8/1-<br>10/31        |
| CHOOSE ONE:<br>BARLEY<br>OATS<br>RYE <sup>39</sup> | 2.5 BU. (122 lbs)<br>3 BU. (96 lbs)<br>2.5 BU. (149 lbs) | 2.80<br>2.21<br>3.22 | 1-2<br>1-2<br>1-2  | x<br>x<br>x   | -              | BY<br>10/15<br>X | x<br>x<br>x  | :            | BY<br>10/15<br>-<br>X | X<br>X<br>X   | :            | RY<br>10/1<br>-<br>X |
| BARLEY OR<br>RYE PLUS<br>FOXTAIL MILLET*           | 150 lbs  | 3,45                 | <u>s</u>           | X<br>X  | X<br>X         | 10/15<br>X       | x<br>x       | X<br>X       | 10/15<br>X            | x<br>x        | x<br>x       | 10/4<br>X            |
| WEEPING<br>LOVEGRASS <sup>11</sup>                 | 4 Hrs  | .09                  | 1/4 - 1/2          |   | x              | · _              | <u>.</u>     | x            | -                     | -             | x            | -                    |
| ANNUAL RYEGRASS                                    | 59 lbs   | 1.15                 | 1/4 - 1/2          | ×   | •              | 11/1             | Χ.           |              | 13/1                  | x             |              | 8/15                 |
| MILLET*2   | 50 ths   | 1.15                 | 1/2                |   | x              | -                | -            | x            | -                     | -             | x            | -                    |

G-20-20

Applicable on slopes of 3:1 or flatter

Refer to Figure A - Adopted from USDA, ARS Missellaneous Publication #1475, January 1990 Between fall and apring seeding dates, use maken only if ground is frazen and reseed when thawed

May be used as a nurse crop for late fall/early winter permanent seedings, add 56 Bisfac to the permanent seeding mixture

Maryland State Highway Administration Temporary Seed Min

May be used as a nurse error fix mid-summer permanent seedings. Add 10 jbs/uc to the permanent seeding mix

May be used as a nurse crop for mid-summer permanent seedings. Add 2 Bis/ac to permanent seed mix.

OWNER/DEVELOPER MARYLAND FOOD CENTER **AUTHORITY** 

> 7801 OCEANO AVENUE JESSUP, MD 20794 410-379-5760

11/7/01 REVISED PER COUNTY COMMENTS SUBMITTED FOR S.D.P. REVIEW REVISION

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

ADDRESS CHART PARCEL NO. STREET ADDRESS 7940 TAR BAY DRIVE (GUARD HOUSE) 7950 TAR BAY DRIVE (BUILDING) PERMIT INFORMATION CHART SUBDIVISION NAME SECTION / AREA PARCEL # Maryland Wholesale Food Center Section 2 Block B B-1 & B-2 BLOCK 20 ELECTION DISTRICT ZONE CENSUS TRACT ZONE MAP CMP-9196 6069.01

WATER CODE: B02 SEWER CODE: 3170000 **Erosion and Sedimentation Control Notes and Tables MARYLAND FOOD CENTER AUTHORITY** CROSS DOCK/TRAILER PARKING

PREVIOUS FILE #s: 3467, 6875, 9196, F-82-120, F-90-81, VP 82-32, VP 82-65, VP 86-117 SDP--01-147 SCALE: AS SHOWN SHEET 7 OF 15

DESIGN ENGINEERS DRAWN BY: ..... CHECKED BY: . . . . . . . . . . . . . . . . . .

Phone (717)-291-2266 WEBBER/SMITH Associates, Inc Fax (717)-291-4401 STATUS: P - PRELIMINARY, F - FINAL 3894-C303-D-F

CALL 1-800-257-7777

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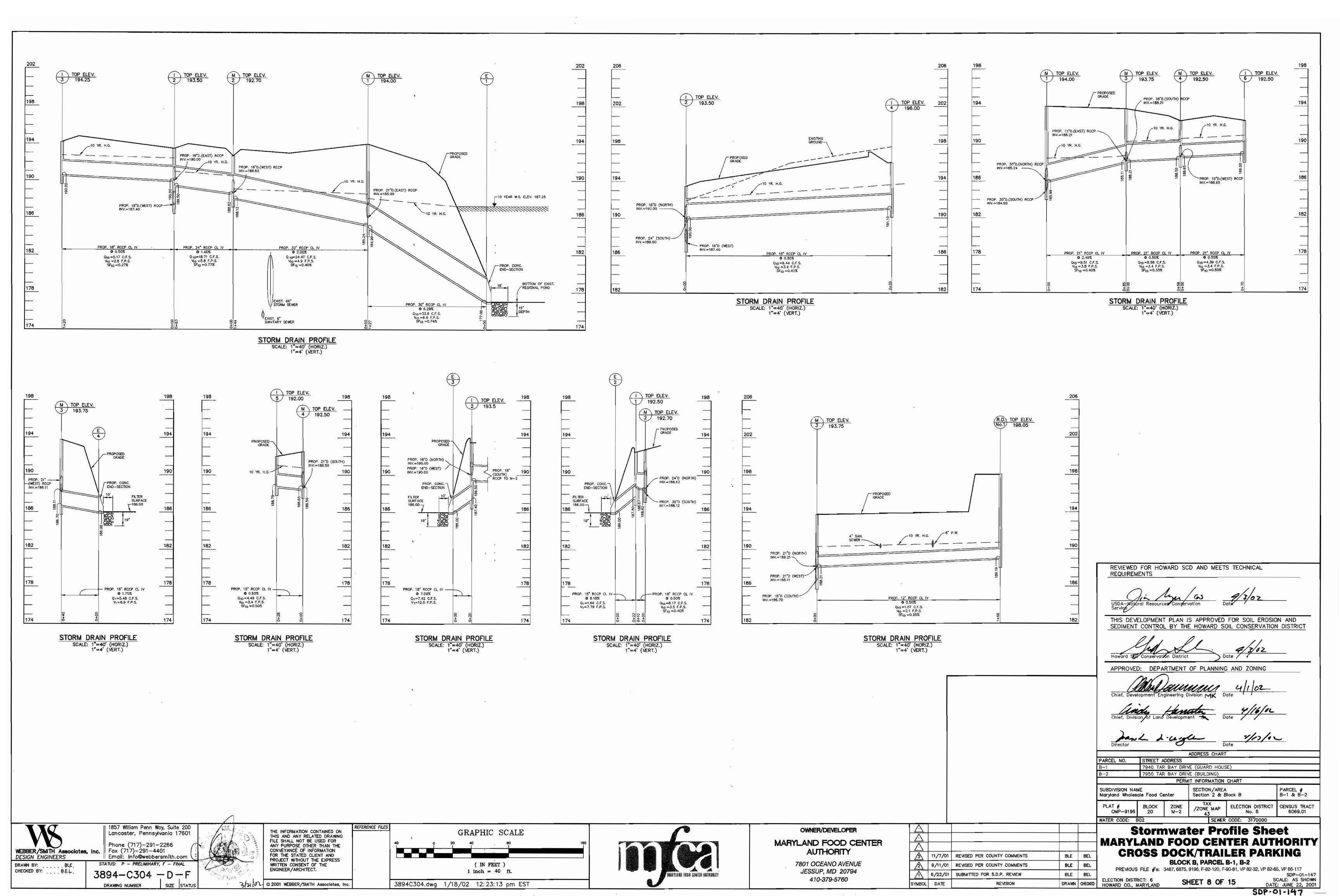
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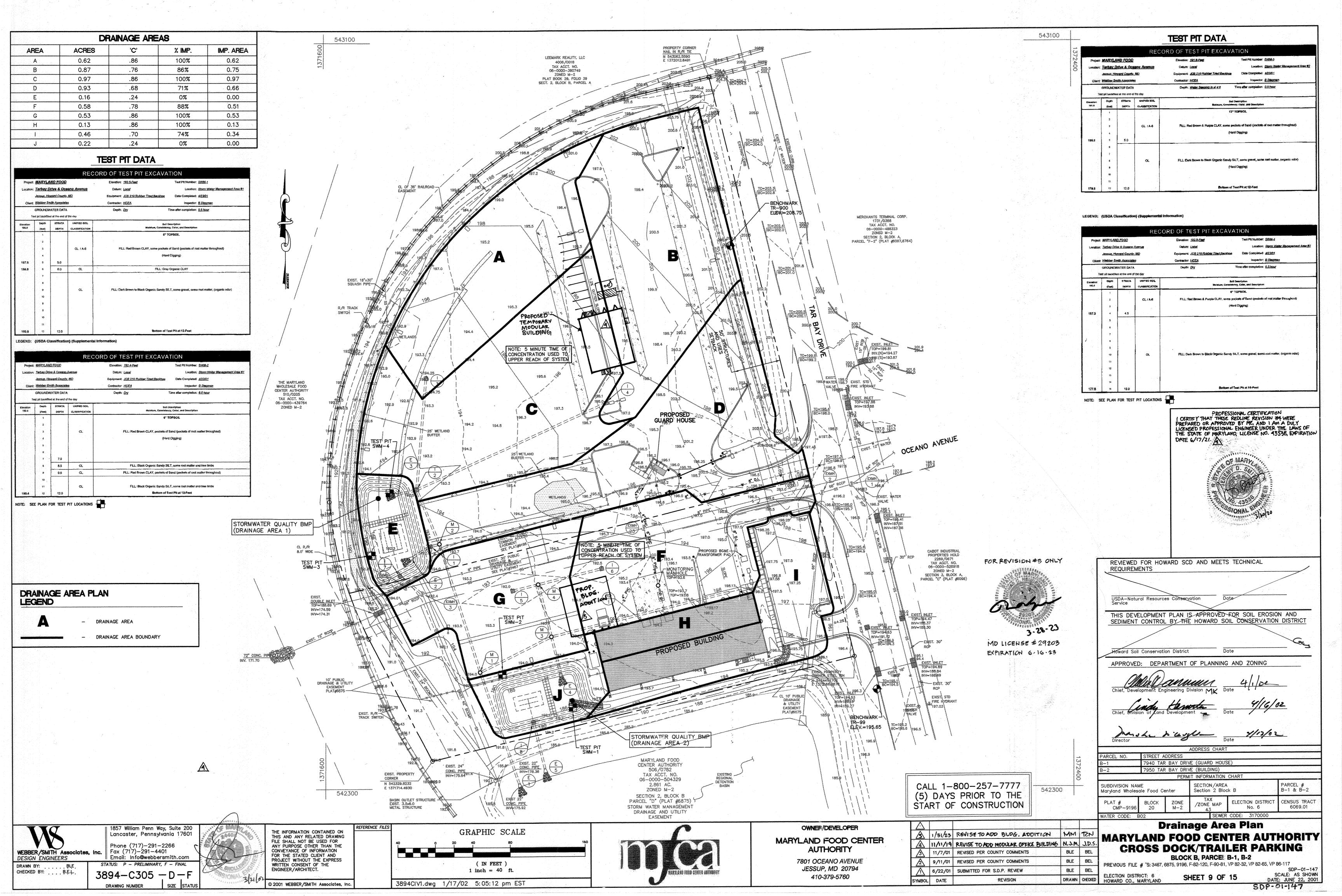
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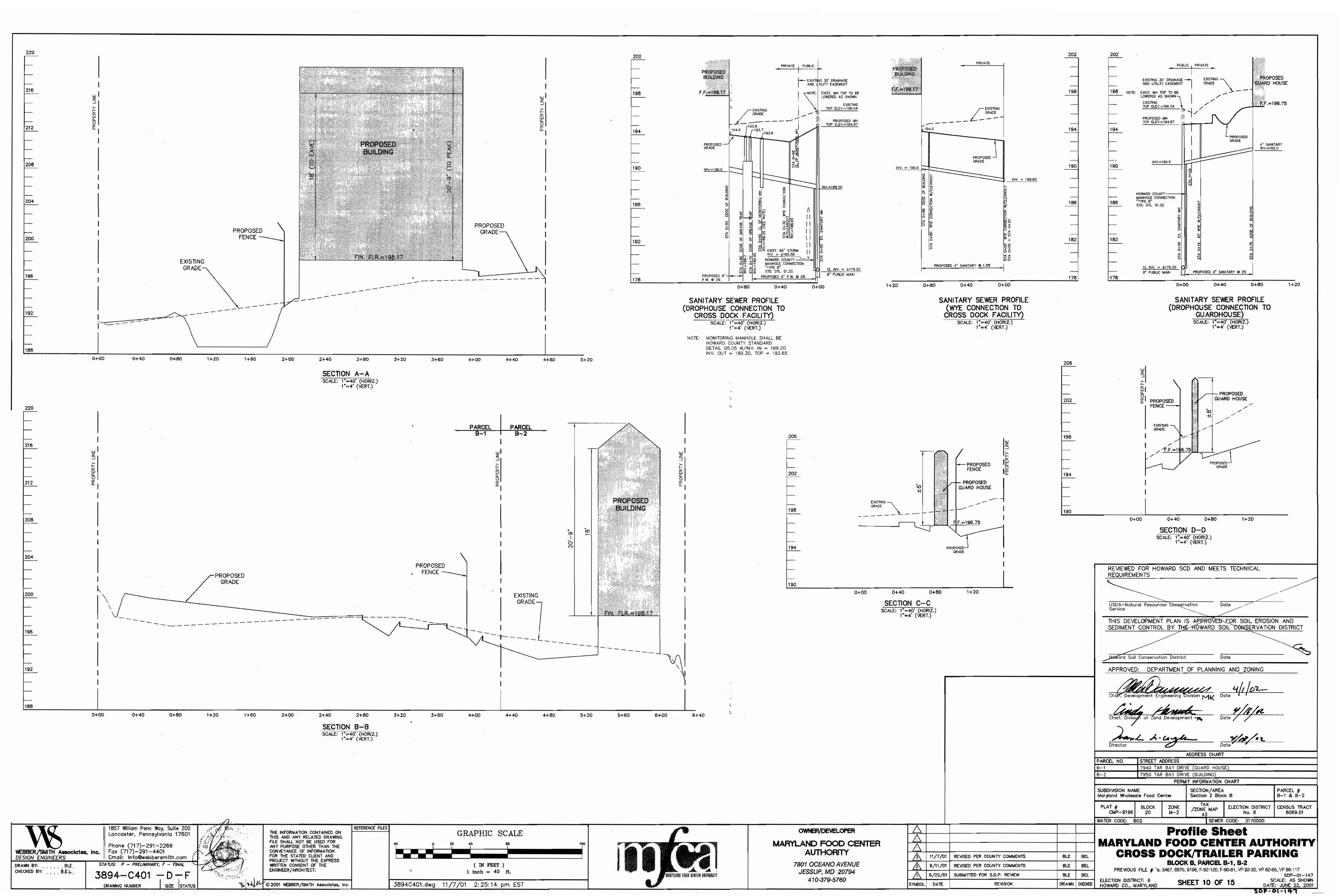
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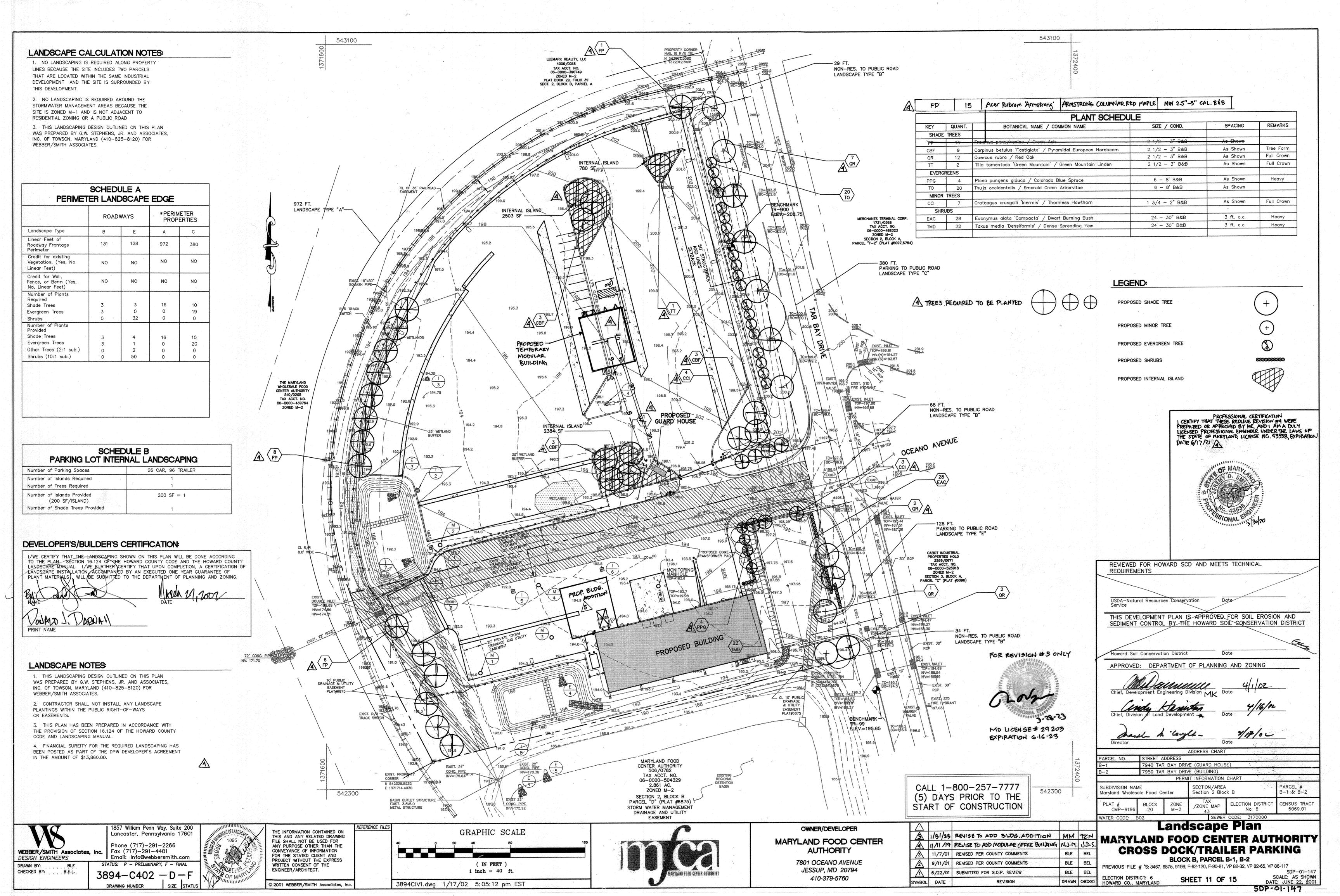
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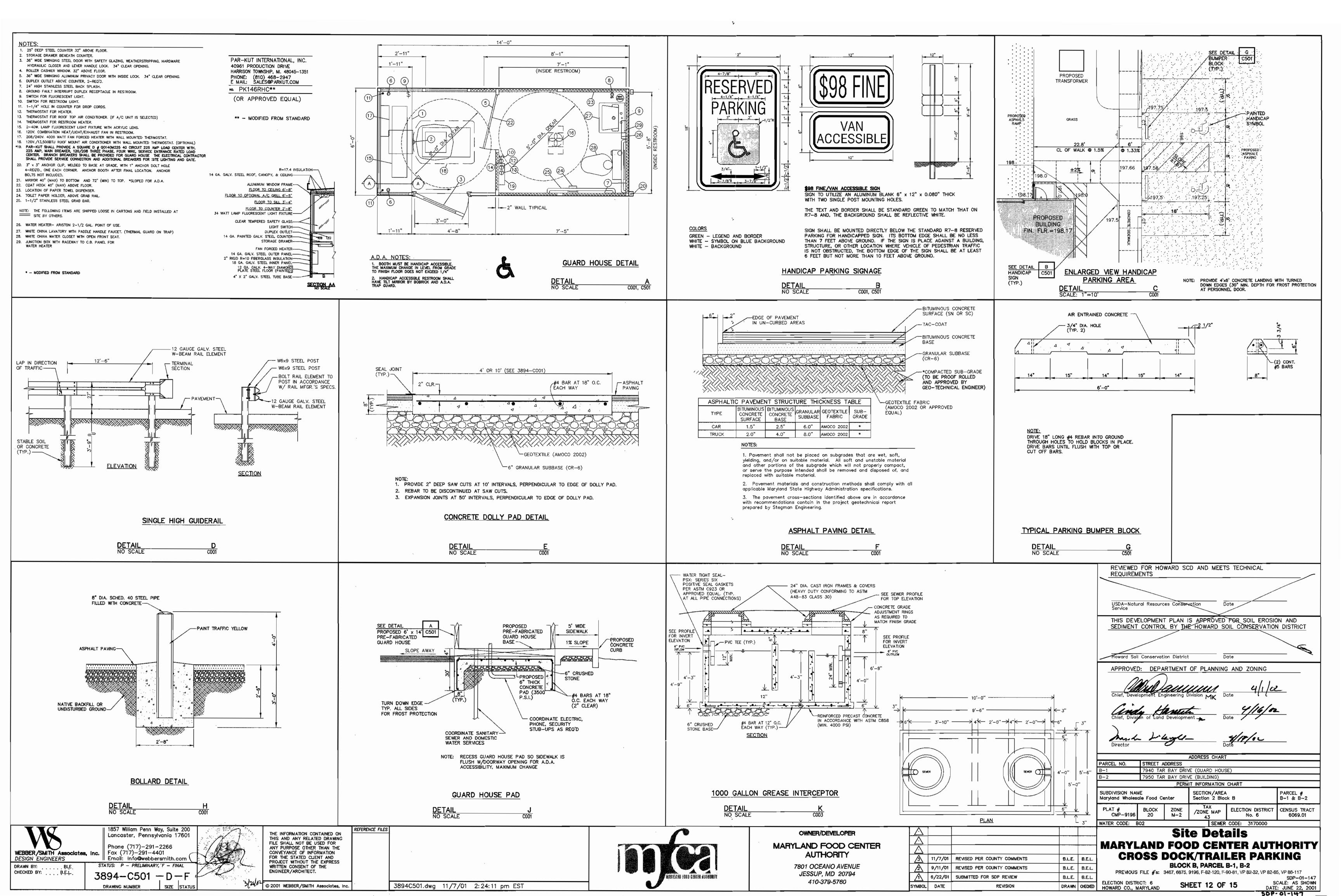
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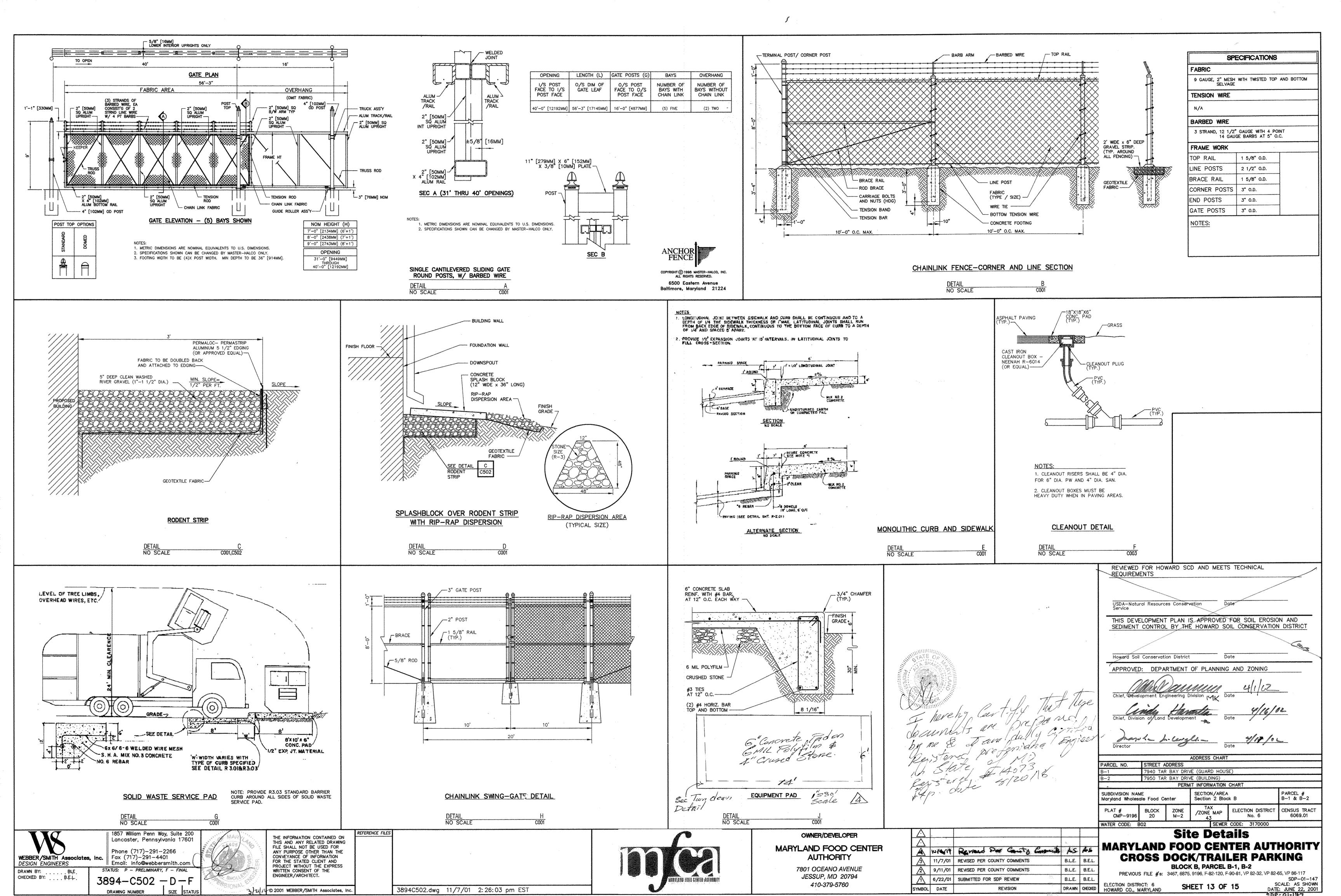


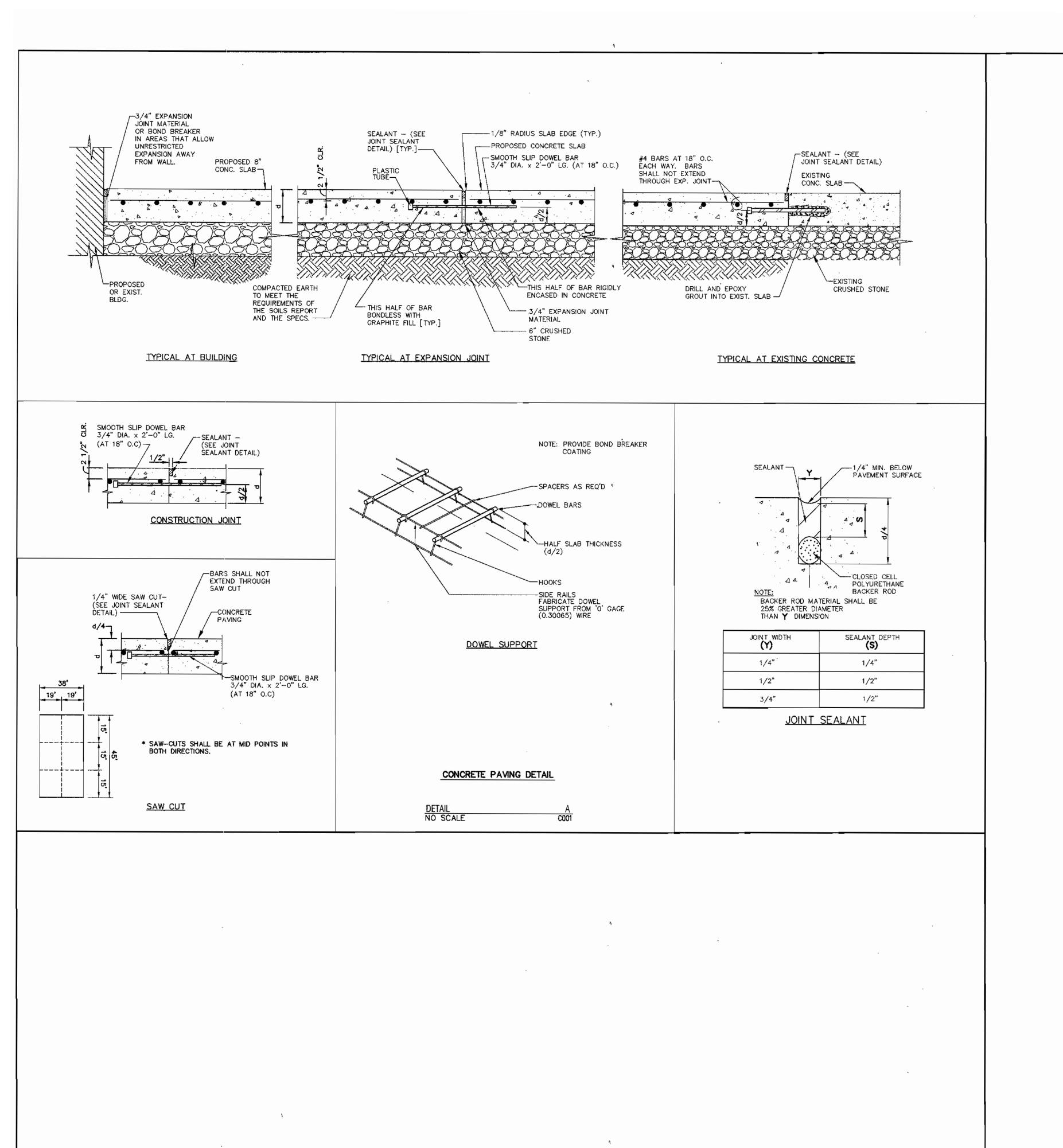


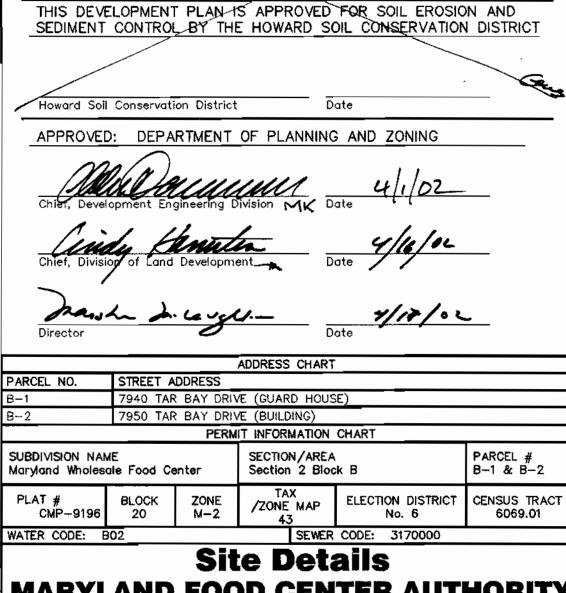












REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL

REQUIREMENTS

USDA-Natural Resources Conservation Service

WEBBER/SMITH Associates, Inc DESIGN ENGINEERS CHECKED BY: B.E.L.

1857 William Penn Way, Suite 200 Lancaster, Pennsylvania 17601 Phone (717)-291-2266 Fax (717)-291-4401 Email: Info@webbersmith.com STATUS: P - PRELIMINARY, F - FINAL 3894-C503 - D-F

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MARYLAND FOOD CENTER **AUTHORITY** 7801 OCEANO AVENUE

OWNER/DEVELOPER

JESSUP, MD 20794 410-379-5760

SYMBOL DATE

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| <u>3</u> | 11/7/01 | REVISED PER COUNTY COMMENTS | B.L.E. | B.E.L. |    |  |  |  |  |
| 2        | 9/11/01 | REVISED PER COUNTY COMMENTS | B.L.Ē. | B.E.L. | -  |  |  |  |  |
| Á        | 6/22/01 | SUBMITTED FOR SOP REVIEW    | B.L.E. | B.E.L. |    |  |  |  |  |

REVISION

MARYLAND FOOD CENTER AUTHORITY CROSS DOCK/TRAILER PARKING

BLOCK B, PARCEL B-1, B-2 PREVIOUS FILE #s: 3467, 6875, 9196, F-82-120, F-90-81, VP 82-32, VP 82-65, VP 86-117 SDP-01-147 SCALE: AS SHOWN DATE: JUNE 22, 2001 DRAWN CHECKED ELECTION DISTRICT: 6
HOWARD CO., MARYLAND SHEET 14 OF 15

