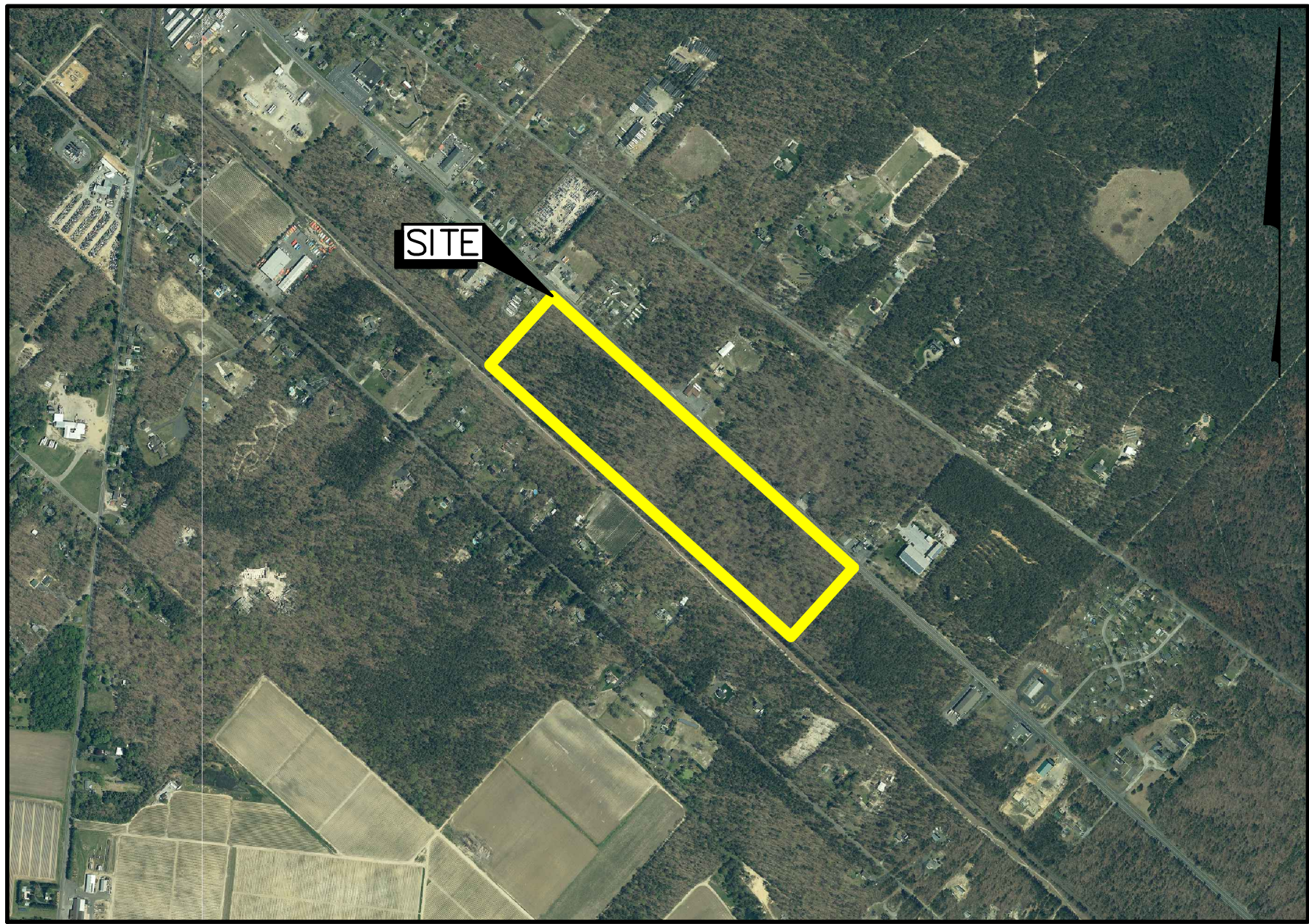


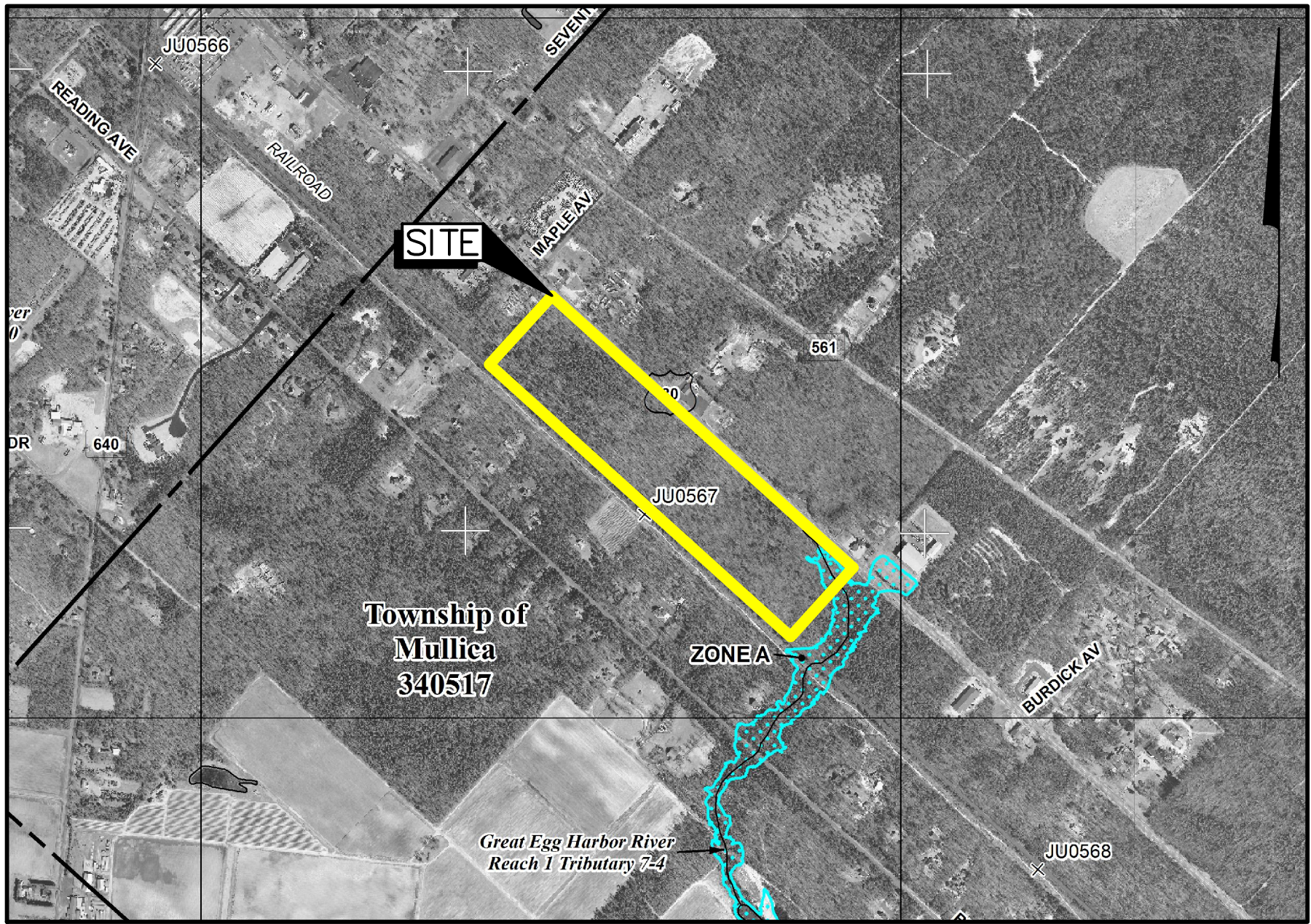
BHT MULLICA TOWNSHIP

SHEET 35, BLOCK 3503, LOTS 1 & 2; BLOCK 3504, LOTS 1 & 2; BLOCK 3505, LOT 1; BLOCK 3506, LOTS 1; BLOCK 3507, LOT 1; BLOCK 3508, LOT 1; BLOCK 3509, LOT 1
TOWNSHIP OF MULLICA, ATLANTIC COUNTY, NEW JERSEY

PRELIMINARY AND FINAL SITE PLANS



AERIAL MAP
SCALE: 1" = 1,000'



FEMA FLOOD INSURANCE RATE MAP
SCALE: 1" = 1,000'

APPLICANT:

BHT PROPERTIES GROUP

5555 ANGLERS AVENUE, SUITE 27
FORT LAUDERAKE, FL 33312



MARATHON

Engineering & Environmental Services

3 Killdeer Court, Suite 302, Swedesboro, NJ 08085
1616 Pacific Avenue, Suite 501, Atlantic City, NJ 08401

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

OWNER/APPLICANT
BHT PROPERTIES GROUP
5555 ANGLERS AVENUE, SUITE 27
FORT LAUDERAKE, FL 33312
PHONE: 954-408-6744

APPLICANT'S INTENT

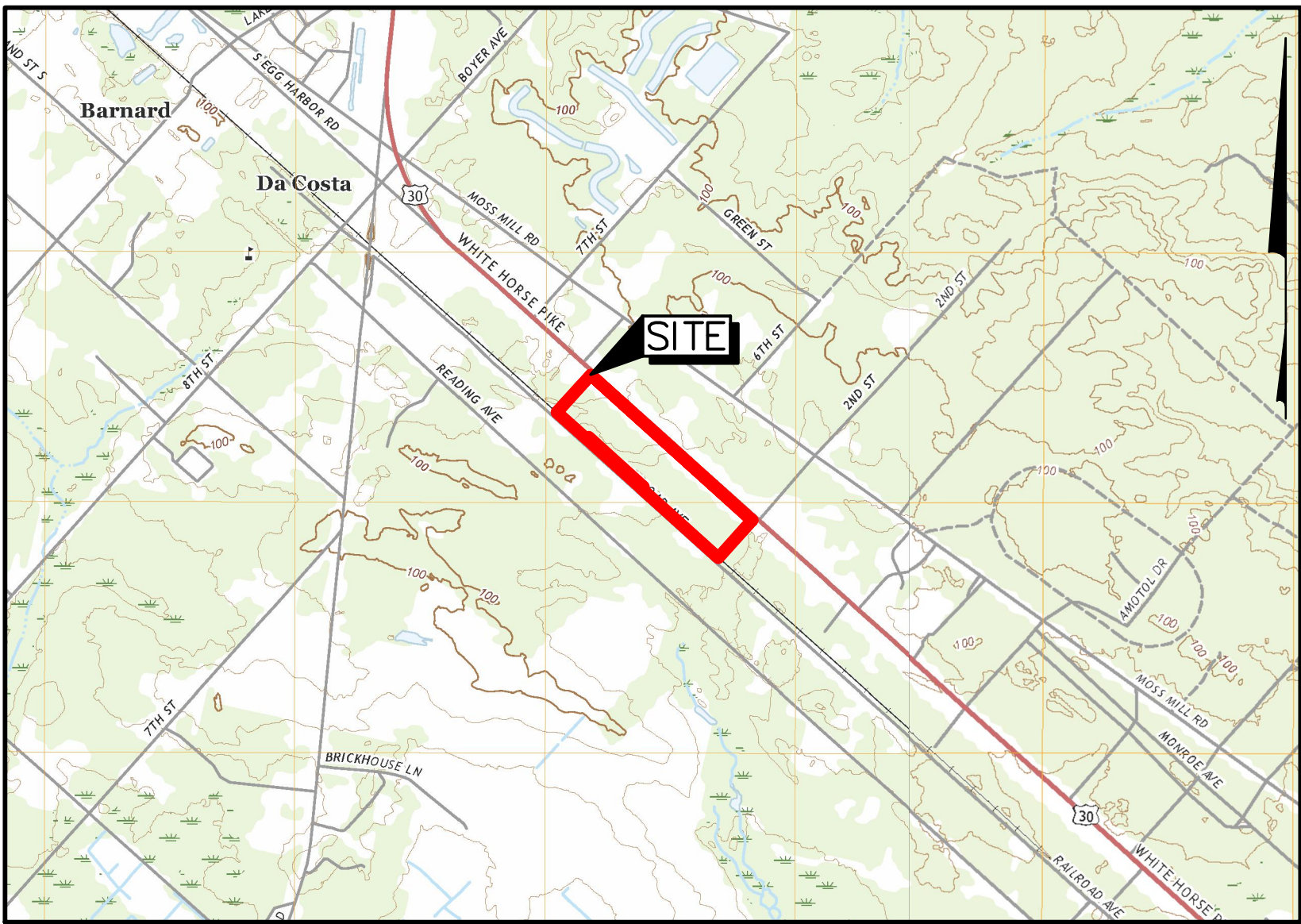
THE APPLICANT, BHT PROPERTIES GROUP, SEEKS PRELIMINARY AND FINAL SITE PLAN APPROVAL TO DEVELOP AN AUTO AUCTION STORAGE YARD AND A 8,700 S.F. OFFICE BUILDING WITH ASSOCIATED PARKING. THE PROJECT IS SITUATED ON SHEET 35, BLOCK 3503, LOTS 1 & 2; BLOCK 3504, LOTS 1 & 2; BLOCK 3505, LOT 1; BLOCK 3506, LOTS 1; BLOCK 3507, LOT 1; BLOCK 3508, LOT 1; BLOCK 3509, LOT 1, BOUNDED BY THE WHITE HORSE PIKE (U.S. ROUTE 30) TO THE NORTHEAST AND THE N.J. TRANSIT CAMDEN TO ATLANTIC CITY MAIN LINE TO THE SOUTHWEST, SITUATED IN MULLICA TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY.

CERTIFICATION OF APPROVALS

SITE PLAN OF _____ BHT MULLICA TOWNSHIP
LOT _____ ALL LOTS _____ BLOCK 3503, 3504, 3505, 3506 _____ PT _____ ZONE _____
DATE _____ DRAFT _____ SCALE _____ AS NOTED _____
APPLICANT _____ BHT PROPERTIES GROUP
ADDRESS _____ 5555 ANGLERS AVENUE, SUITE 27
FORT LAUDERAKE, FL 33312
SITE PLAN CONTROL NO. _____
I HEREBY CERTIFY THAT I AM THE OWNER OF RECORD OF THE PROPERTY HEREIN DEPICTED AND THAT I CONCUR WITH THIS PLAN. I CONSENT TO THE FILING OF THIS SITE PLAN WITH THE PLANNING BOARD OF MULLICA TOWNSHIP.
OWNER: _____ DATE _____
OWNER: _____ DATE _____
OWNER: _____ DATE _____
I HEREBY CERTIFY THAT THIS SITE PLAN HAS BEEN APPROVED BY RESOLUTION _____ OF THE MULICA TOWNSHIP PLANNING BOARD.
CHAIRPERSON _____ DATE _____
SECRETARY _____ DATE _____
BOARD ENGINEER _____ DATE _____
TOWNSHIP CLERK _____ DATE _____
THIS SITE PLAN IS HEREBY APPROVED BY THE ATLANTIC COUNTY PLANNING BOARD.
CHAIRPERSON _____ DATE _____
SECRETARY _____ DATE _____

SHEET INDEX		
SHEET NO.	DWG. NO.	SHEET TITLE
1 OF 24	C0001	COVER SHEET
2 OF 24	C0002	INFORMATION SHEET
3 OF 24	C1801	EXISTING CONDITIONS PLAN
4 OF 24	D0101	DEMOLITION PLAN
5 OF 24	C0100	OVERALL SITE PLAN
6 OF 24	C0101	SITE PLAN – A
7 OF 24	C0102	SITE PLAN – B
8 OF 24	C0301	GRADING PLAN – A
9 OF 24	C0302	GRADING PLAN – B
10 OF 24	C0701	LIGHTING PLAN
11 OF 24	C1101	SITE DETAIL SHEET
12 OF 24	C1102	STORM SEWER DETAIL SHEET
13 OF 24	C1103	STORM SEWER DETAIL SHEET
14 OF 24	C1104	STORM SEWER DETAIL SHEET
15 OF 24	C1105	STORM SEWER DETAIL SHEET
16 OF 24	C1106	SOIL LOGS DETAIL SHEET
17 OF 24	C1107	SOIL LOGS DETAIL SHEET
18 OF 24	C1108	SOIL LOGS DETAIL SHEET
19 OF 24	C1201	SOIL EROSION AND SEDIMENT CONTROL PLAN – A
20 OF 24	C1202	SOIL EROSION AND SEDIMENT CONTROL PLAN – B
21 OF 24	C1203	SOIL COMPACTION PLAN – A
22 OF 24	C1204	SOIL COMPACTION PLAN – B
23 OF 24	C1301	SOIL EROSION AND SEDIMENT CONTROL NARRATIVE SHEET
24 OF 24	C1302	SOIL EROSION AND SEDIMENT CONTROL DETAIL SHEET

DRAFT	1	INITIAL SUBMISSION	SK	D.J.F.
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULLICA TOWNSHIP			 MARATHON Engineering & Environmental Services Swedesboro Office 3 Killdeer Court, Suite 302, Swedesboro, NJ 08085 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700	
SHT 35, BL 3503, LOTS 1 & 2, BL 3504, LOTS 1 & 2, BL 3505, LOT 1, BL 3507, LOTS 1 & 2, BL 3508, LOT 1, BL 3509, LOT 1				
TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY				
COVER SHEET				
BHT DESIGN GROUP				
5555 ANGLERS AVENUE, SUITE 27				
FORT LAUDERDALE, FL 33301				
DAVID J. FLEMING, P.E.				
PROJECT ENGINEER				
NEW JERSEY LICENSE NO. 246033321600				
DRAFT				
09/16/2022				
BHT 001.03				
ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. ARE INSTRUMENTS OF SERVICE IN RESPECT TO THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE OBTAINED FOR REUSE OR UNDER ANY OTHER CIRCUMSTANCES OR FOR ANY OTHER PROJECT. ANY REUSE, WITHOUT WRITTEN AND EXPLICIT PERMISSION FROM MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. SHALL CONSTITUTE A VIOLATION OF THE PROFESSIONAL ETHICS AND STANDARDS OF THE PROFESSION. MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. SHALL NOT BE RESPONSIBLE FOR ANY CONSEQUENCES ARISING FROM THE REUSE OF ANY DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. WITHOUT WRITTEN AND EXPLICIT PERMISSION FROM MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC.			SCALE	APPROVED
			AS SHOWN	DUP
			SK	SHEET
			1 OF 24	
			DRAWING NO.	C0001



U.S.G.S. EGG HARBOR CITY AND NEWTONVILLE QUAD MAP
SCALE: 1" = 2,000'

PROJECT NOTES

A. GENERAL SITE NOTES

1. THE TRACT FOR DEVELOPMENT CONSISTS OF SHEET 35, BLOCK 3503, LOTS 1 & 2, BLOCK 3504, LOTS 1 & 2, BLOCK 3505, LOT 1, BLOCK 3507, LOTS 1 & 2, BLOCK 3508, LOT 1 AND BLOCK 3509, LOT 1, OF THE OFFICIAL TAX MAP OF MULLICA TOWNSHIP.
2. THE TRACT FOR DEVELOPMENT IS ZONED PT (PINELANDS TOWN) TOTAL AREA OF TRACT = 44.18 ACRES.
3. THE PROPOSED DEVELOPMENT SHALL BE SERVED BY A SEPTIC SYSTEM AND WELL.
4. THE PROPOSED DEVELOPMENT SHALL COMPLY WITH THE CURRENT RECYCLING PROGRAM IN EFFECT IN MULICA TOWNSHIP.
5. THE OWNER, OR HIS REPRESENTATIVE, SHALL DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21 (E) OF THE N.J. UNIFORM CONSTRUCTION CODE AND CFR 1926.32 (F) (OSHA COMPETENT PERSON).
6. GRADING AROUND BUILDINGS AND FINISHED FLOOR ELEVATIONS ARE SUBJECT TO CHANGE UPON REVIEW OF CONSTRUCTION PLANS OF PROPOSED BUILDINGS.
7. ALL BARRIER FREE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST A.D.A. AND N.J.D.O.T. STANDARDS.
8. ANY VARIATIONS FROM THE PLANS MUST BE AUTHORIZED BY THE DESIGN ENGINEER AND APPROVED BY THE TOWNSHIP ENGINEER.
9. CONSTRUCTION DETAILS/SHOP DRAWINGS UTILIZED BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE TOWNSHIP ENGINEER.
10. REFER TO THE COMPLETE SET OF PLANS FOR ADDITIONAL INFORMATION.
11. THIS SET OF DRAWINGS AND ALL INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR THE USE ONLY BY THE PARTY FOR WHOM THE WORK IS CONTRACTED OR WHOM IT IS CERTIFIED. THIS SET OF DRAWINGS MAY NOT BE COPIED, REUSED, DISCLOSED, DISTRIBUTED, OR RELIED UPON FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC.
12. ANY DEMOLITION MATERIAL SHALL BE PROPERLY DISPOSED OF AND NO ON-SITE BURIAL IS PERMITTED.
13. ALL TRAFFIC SIGN PLACEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD, U.S. DEPARTMENT OF TRANSPORTATION AS AMENDED. ALL SIGNS SHALL BE MOUNTED ON BREAKAWAY SIGN POSTS.
14. THE APPLICANT SHALL NOTIFY THE MULICA TOWNSHIP ENGINEER A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.

B. SURVEY NOTES

1. ALL BEARINGS ARE SHOWN IN DEGREES, MINUTES AND SECONDS. HORIZONTAL DATUM IS IN FEET AND REFERENCES THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 83 BASED ON GPS OBSERVATION).
2. VERTICAL DATUM IS IN FEET AND REFERENCES NAVD '88.
3. PLANIMETRIC FEATURES SHOWN HEREON PREPARED BY COOPER NOR EAST MAPPING AND COMPILED ON DIGITAL WORKSTATIONS USING AERIAL PHOTOGRAPHY TAKEN JULY 1, 2022. PLANIMETRIC FEATURES SHOWN HEREON HAVE BEEN VERIFIED BY FIELD SURVEY.
4. TOPOGRAPHY SHOWN HEREON OBTAINED FROM LIDAR POINT CLOUD, OBTAINED FROM NOAA OFFICE FOR COASTAL MANAGEMENT, 2019 U.S.C.S. LIDAR: CONED TOPOBATHYMETRIC MODEL FOR NEW JERSEY AND DELAWARE, NAVO 1988 U.S. FOOT.
5. BOUNDARY INFORMATION WAS TAKEN FROM PLAN ENTITLED "ALTA/NSPS LAND TITLE SURVEY, WHITE HORSE PIKE (ROUTE 30), SHEET 35, BLOCK 3503, LOTS 1 & 2, BLOCK 3504, LOTS 1 & 2, BLOCK 3505, LOT 1, BLOCK 3506, LOT 1, BLOCK 3507, LOT 1, BLOCK 3508, LOT 1, BLOCK 3509, LOT 1, TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY", PREPARED BY MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC., DATED xx/xx/2022, UNREVISED, PROJECT NO. BHT 001.03.

C. CONTRACTOR/OWNER RESPONSIBILITY NOTES

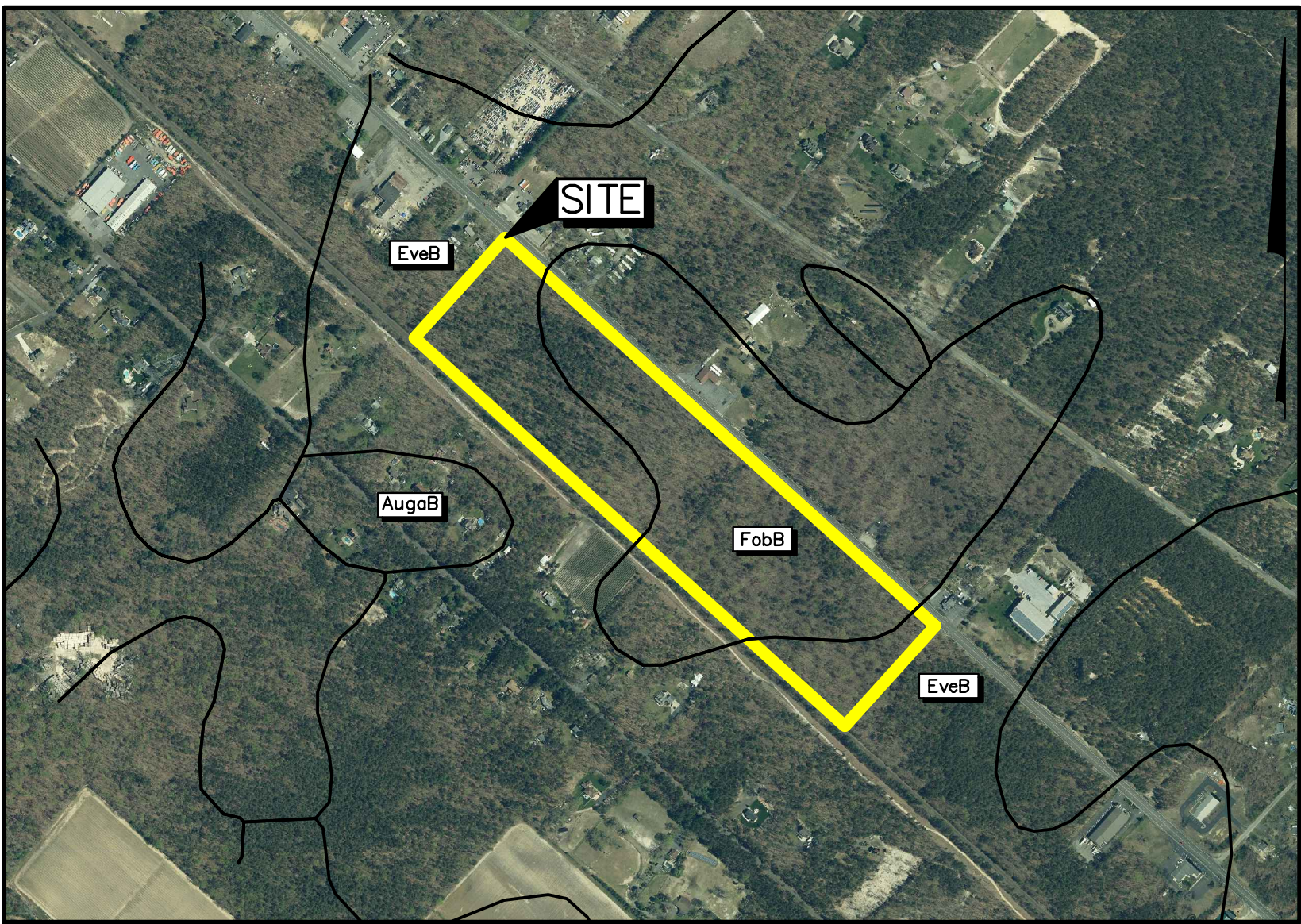
1. THE CONTRACTOR/OWNER SHALL DESIGNATE A PERSON THAT IS KNOWLEDGEABLE OF CONSTRUCTION SAFETY STANDARDS AND IS EXPECTED TO BE AT THE CONSTRUCTION SITE ON A REGULAR BASIS. THIS PERSON SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION, DISCHARGE, AND MONITORING OF SAFETY STANDARDS AND PRACTICES AT THE SITE. THE CONTRACTOR/OWNER SHALL PROVIDE DESIGN ENGINEER WITH NAME, ADDRESS AND TELEPHONE NUMBER OF THE DESIGNEE. IN LIEU OF THIS INFORMATION, THE REPRESENTATIVE PERSON FROM THE CONTRACTOR'S ORGANIZATION WHO SIGNED THE CONTRACT SHALL HEREBY BE RESPONSIBLE FOR THIS FUNCTION.
2. THE CONTRACTOR SHALL SCHEDULE ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CURRENT O.S.H.A. STANDARDS.
3. THE SITE CONTRACTOR SHALL VERIFY WITH THE DESIGN ENGINEER WHAT PERMITS AND APPROVALS ARE PENDING OR HAVE BEEN APPROVED.
4. THE SITE CONTRACTOR SHALL VERIFY AND MATCH HORIZONTAL AND VERTICAL ELEVATIONS.
5. THE CONTRACTOR SHALL PERFORM ALL WORK IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND MANUFACTURER'S RECOMMENDATIONS AND STANDARDS.
6. ALL DIMENSIONS AND EXISTING CONDITIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
7. ALL UNDERGROUND UTILITIES LOCATIONS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION.
8. THE CONTRACTOR SHALL VERIFY IN FIELD ALL CONDITIONS AS SHOWN ON THE PLANS AND SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS FOR ALL NEW CONSTRUCTION. REFER TO THE ARCHITECTURAL DRAWINGS FOR ANY INFORMATION NOT SHOWN HERE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, UNDERPINNING AND STRUCTURAL STABILITY DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL CALL 1-800-272-1000 FOR FIELD LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
11. IN THE EVENT CONDITIONS AT THE SITE ARE NOTICEABLY DIFFERENT (AT THE TIME OF CONSTRUCTION) FROM THE DOCUMENTS PROVIDED, THE CONTRACTOR AND/OR OWNER SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY.
12. THE PROPOSED SITE GRADING DEPICTED IN THESE PLANS IS INTENDED TO PROVIDE A GENERAL GUIDE FOR GRADING. THE GENERAL CONTRACTOR, CONSTRUCTION MANAGER OR OWNER SHALL INSTRUCT THE CONCRETE CONTRACTOR TO TAKE CARE IN SETTING FORMS FOR PEDESTRIAN AREAS TO INSURE THAT THEY CONFORM TO THE NEW JERSEY BARCODE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF APPROVAL IMPOSED BY ALL REGULATORY AGENCIES HAVING JURISDICTION AS IT RELATES TO THE CONSTRUCTION AND MAINTENANCE OF THE IMPROVEMENTS.
14. CONTRACTOR DAMAGE TO ANY EXISTING FEATURE SUCH AS, BUT NOT LIMITED TO, CONCRETE CURBS, CONCRETE WALKS, PAVING, LIGHTS, PLANTERS, SIGNS, UTILITIES OR BUILDINGS NOT SCHEDULED FOR REMOVAL SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR.
15. THE OWNER, OR HIS REPRESENTATIVE, IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21 (E) OF THE N.J. UNIFORM CONSTRUCTION CODE AND CFR 1926.32 (F) (OSHA COMPETENT PERSON).

D. UTILITY NOTES

1. GENERAL

- a. ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND.
- b. ALL MATERIALS, METHODS AND DETAILS OF IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE REGULATIONS OF MULICA TOWNSHIP, ATLANTIC COUNTY AND/OR THE APPROPRIATE UTILITY COMPANY, WHICHEVER REGULATION TAKES PRECEDENCE.
- c. WHERE IT IS NECESSARY TO CONNECT TO EXISTING UTILITIES WITHIN EXISTING ROADWAYS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAW CUTTING FOR WATER AND SEWER SERVICE. TRENCHING, BACKFILL, COMPACTION AND PAVING SHALL BE IN ACCORDANCE WITH MULICA TOWNSHIP, ATLANTIC COUNTY AND NJDOT SPECIFICATIONS, AS APPLICABLE.
- d. PIPE LENGTHS AND GRADIENTS ARE CALCULATED TO THE CENTERLINE OF SANITARY AND STORM SEWER STRUCTURES. ACTUAL PIPE LENGTH MAY BE LESS THAN CALCULATED LENGTH, AND SHOULD BE COMPUTED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- e. EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN IS FURNISHED BY THE UTILITY COMPANIES OR SURVEY PLAN BY THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.



N.R.C.S. U.S. DEPARTMENT OF AGRICULTURE SOILS MAP
SCALE: 1" = 1,000'

2. STORMWATER MANAGEMENT/STORM SEWERS

- a. STORMWATER MANAGEMENT SHALL BE IN ACCORDANCE WITH STANDARDS SET FORTH UNDER THE FOLLOWING DOCUMENTATION:
 - THE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL.
 - NEW JERSEY ADMINISTRATIVE CODE 7.8.
 - THE NEW JERSEY RESIDENTIAL SITE IMPROVEMENT STANDARDS, TITLE 5, CHAPTER 21 OF THE NEW JERSEY ADMINISTRATIVE CODE.
- b. MAINTENANCE OF ALL STORMWATER MANAGEMENT FACILITIES SHALL BE IN ACCORDANCE WITH THE "STORMWATER MANAGEMENT FACILITIES MAINTENANCE MANUAL" PREPARED UNDER THE PROJECT.
- c. ALL HDPE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M252 AND M294.
- d. ALL REINFORCED CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-76, CLASS III OR IV AS INDICATED. ALL CONCRETE STORM SEWER SHALL HAVE EITHER RUBBER GASKET OR BUTYL TAPE JOINTS AND BE WRAPPED WITH MORTAR AND FABRIC ON THE OUTSIDE. IN ADDITION, ALL 36" AND LARGER PIPE SHALL ALSO HAVE THE INSIDE OF THE JOINT MORTARED.
- e. ALL DRAINAGE STRUCTURES, I.E., INLETS, MANHOLES AND ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.J.D.O.T. STANDARDS.
- f. ALL INLETS SHALL HAVE BICYCLE SAFE ECO GRATES.
- g. BEDDING AND BACKFILL OF REINFORCED CONCRETE PIPE AND HDPEP SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

3. GAS, ELECTRIC AND COMMUNICATIONS

- a. GAS, ELECTRIC AND COMMUNICATION SERVICE SHALL BE INSTALLED UNDERGROUND THROUGHOUT THE DEVELOPMENT IN ACCORDANCE WITH THE REGULATIONS OF THE LOCAL UTILITY COMPANIES AND MULICA TOWNSHIP.
- b. ALL GAS SERVICE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF PSE & G.
- c. ALL ELECTRIC SERVICE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF PSE & G.
- d. ALL COMMUNICATIONS SERVICE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF VERIZON AND COMCAST.

E. PLACEMENT OF FILL MATERIAL

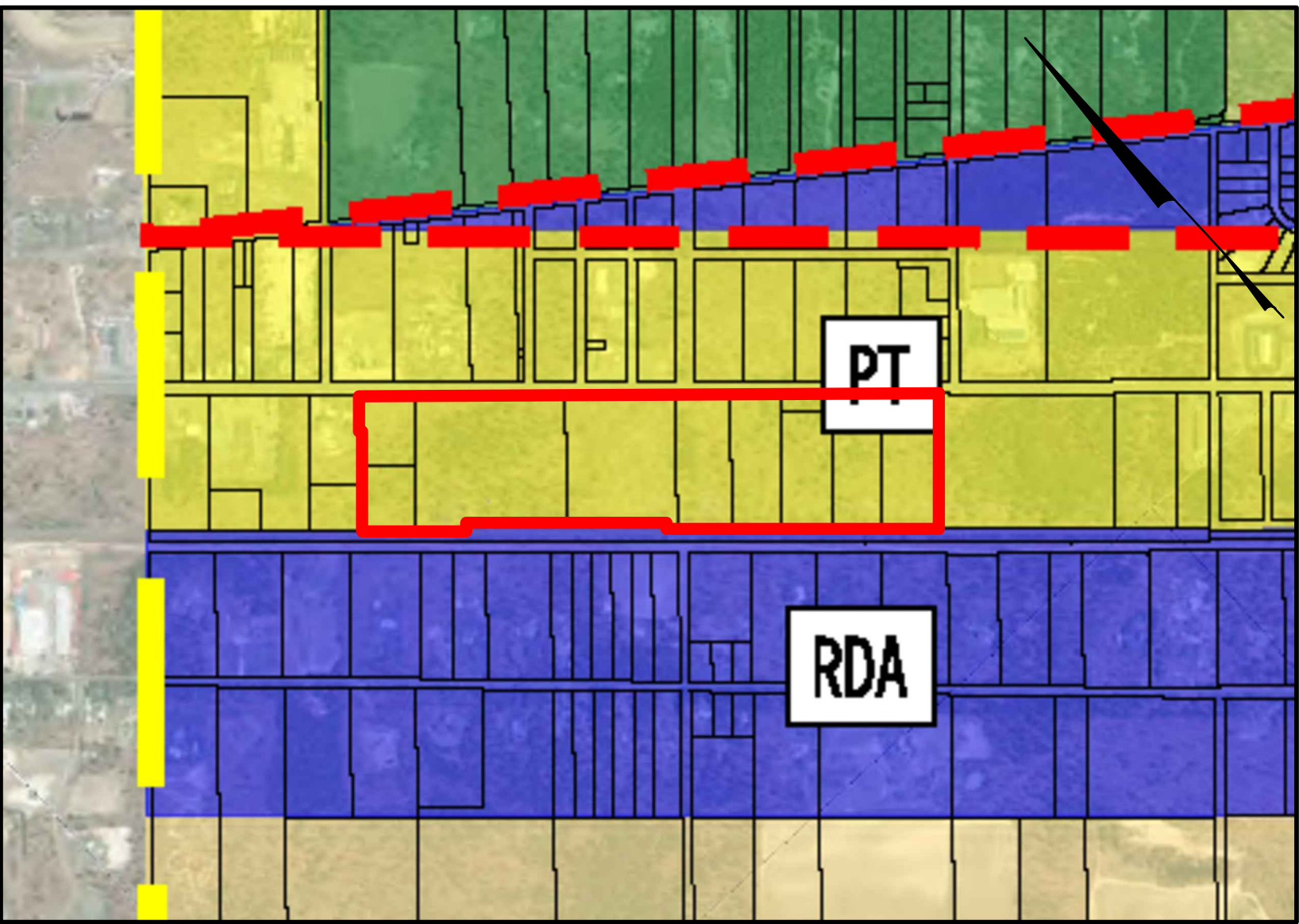
1. THE MATERIAL PLACED IN THE FILL SHALL BE FREE OF DETRIMENTAL AMOUNTS OF SOD, ROOTS, FROZEN SOIL, STONES MORE THAN SIX INCHES IN DIAMETER (EXCEPT ROCK FILLS), AND OTHER OBJECTIONABLE MATERIAL.
 - a. DRAIN FILL SHALL BE KEPT FROM BEING CONTAMINATED BY ADJACENT SOIL MATERIALS DURING PLACEMENT BY EITHER PLACING IT IN A CLEANLY EXCAVATED TRENCH, OR BY KEEPING THE DRAIN AT LEAST ONE FOOT ABOVE THE ADJACENT EARTH FILL.
 - b. SELECTED DRAIN FILL AND BACKFILL MATERIAL SHALL BE PLACED AROUND STRUCTURES, PIPE CONDUITS, AND ANTI-SEEP COLLARS AT ABOUT THE SAME RATE ON ALL SIDES TO PREVENT DAMAGE FROM UNEQUAL LOADING. FILL MATERIAL SHALL BE PLACED AND SPREAD BEGINNING AT THE LOWEST POINT IN THE FOUNDATION, AND THEN BRINGING IT UP IN CONTINUOUS HORIZONTAL LAYERS THICK ENOUGH THAT THE REQUIRED COMPACTION CAN BE OBTAINED. THE FILL SHALL BE CONSTRUCTED IN CONTINUOUS LAYERS. IF OPENINGS OR SECTIONALIZED FILLS ARE REQUIRED, THE SLOPE OF THE BONDING SURFACES BETWEEN THE EMBANKMENT IN PLACE AND THE EMBANKMENT TO TO BE PLACED SHALL NOT BE STEEPER THAN THE RATIO OF THREE HORIZONTAL TO ONE VERTICAL. THE BONDING SURFACE SHALL BE TREATED THE SAME AS THAT SPECIFIED FOR THE FOUNDATION TO ENSURE A GOOD BOND WITH THE NEW FILL.
 - c. THE DISTRIBUTION AND GRADATION OF MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL SHALL DIFFER SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL. IF IT IS NECESSARY TO USE MATERIALS OF VARYING TEXTURE AND GRADATION, THE MORE IMPERVIOUS MATERIAL SHALL BE PLACED IN THE CENTER AND UPSTREAM PARTS OF THE FILL. IF ZONED FILLS OF SUBSTANTIALLY DIFFERING MATERIALS ARE SPECIFIED, THE ZONES SHALL BE PLACED ACCORDING TO LINES AND GRADES SHOWN ON THE DRAWINGS. THE COMPLETE WORK SHALL CONFORM TO THE LINES, GRADES, AND ELEVATIONS SHOWN IN THE DRAWINGS OR AS STAKED IN THE FIELD.
 - d. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADEQUATE FOR OBTAINING THE REQUIRED COMPACTION. MATERIAL THAT IS TOO WET SHALL BE DRIED TO MEET THIS REQUIREMENT, AND MATERIAL THAT IS TOO DRY SHALL BE WETTED AND MIXED UNTIL THE REQUIREMENT IS MET. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER EACH LAYER OF FILL TO ENSURE THAT THE REQUIRED COMPACTION IS OBTAINED. SPECIAL EQUIPMENT SHALL BE USED IF NEEDED TO OBTAIN THE REQUIRED COMPACTION. IF A MINIMUM REQUIRED DENSITY IS SPECIFIED, EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY.
 - e. FILL ADJACENT TO STRUCTURES, PIPE CONDUITS, AND DRAIN FILL OR ANTI-SEEP COLLARS SHALL BE COMPACTED TO A DENSITY EQUIVALENT TO THAT OF THE SURROUNDING FILL BY HAND TAMPING, OR BY USING MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS. FILL ADJACENT TO CONCRETE STRUCTURES SHALL NOT BE COMPACTED UNTIL THE CONCRETE HAS HAD TIME TO GAIN ENOUGH STRENGTH TO SUPPORT THE LOAD.

SOILS DATA

AugoB	AURA SANDY LOAM	2-5% SLOPE	"A" SOILS GROUP
EveB	EVESBORO SAND	0-5% SLOPE	"A" SOILS GROUP
FobB	FORT MOTT SAND	0-5% SLOPE	"A" SOILS GROUP
SOILS OBTAINED FROM NATURAL RESOURCES CONSERVATION SERVICES (NRCS) U.S. DEPARTMENT OF AGRICULTURE.			
ALL SOIL EROSION AND SEDIMENT CONTROL IMPLEMENTATION SHALL BE IN ACCORDANCE WITH STANDARDS SET FORTH BY THE CAPE ATLANTIC CONSERVATION DISTRICT.			

FLOOD DATA

1. A PORTION OF THE SITE IS LOCATED IN FLOOD ZONE "A" AS MAPPED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR MULICA TOWNSHIP, ATLANTIC COUNTY, NEW JERSEY, COMMUNITY PANEL NUMBER 34000100F, EFFECTIVE DATE AUGUST 28, 2018.
2. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT.



OFFICIAL ZONING MAP OF MULICA TOWNSHIP
SCALE: 1" = 750'

ZONING SCHEDULE

NOTE: THE DESIGN CRITERIA AND BULK/AREA REQUIREMENTS FOR THIS PROJECT ARE TAKEN FROM THE CODE OF THE TOWNSHIP OF MULICA, LAND USE ORDINANCE ADOPTED 06/22/2021.

ORDINANCE SECTION	ZONE PT (PINELANDS TOWN)	PERMITTED OR REQUIRED	EXISTING CONDITIONS	PROPOSED IMPROVEMENTS	CONFORMITY STATUS
\$144-129.A.7	USE	VEHICLE SALES PER \$144-123II	VACANT	USED VEHICLE SALES (\$144-123II - SEE NOTES BELOW.)	CONFORMS
\$144 Attachment 2	MINIMUM LOT AREA	1 ACRE	44.18 ACRES	44.18 ACRES	CONFORMS
\$144 Attachment 2	MINIMUM LOT WIDTH	125 FT	2,850 FT	2,859 FT	CONFORMS
\$144 Attachment 2	MINIMUM LOT FRONTAGE	100 FT	2,850 FT	2,850 FT	CONFORMS
\$144 Attachment 2	MIN. IMPROVED LOT FRONTAGE	TOTAL LOT FRONTAGE	0 FT	TOTAL FRONTAGE	CONFORMS
\$144-123II.5	MINIMUM FRONT YARD SETBACK	50 FT	N/A	185 FT	CONFORMS
\$144-123II.5	MIN. FRONT YARD VEHICLE DISPLAY SETBACK	15 FT	N/A	80 FT	CONFORMS
\$144-123II.5	MINIMUM SIDE YARD SETBACK	50 FT	N/A	80 FT	CONFORMS
\$144-123II.5	MINIMUM REAR YARD SETBACK	50 FT	N/A	80 FT	CONFORMS
\$144-123II.2	MAXIMUM BUILDING HEIGHT	1 STORY/20 FT	N/A	≤ 20 FT	CONFORMS
\$144-123II.3	MAXIMUM BUILDING COVERAGE	25% OF TOTAL LAND AREA	N/A	0.45%	CONFORMS

ORDINANCE \$144-123II (VEHICLE SALES (NEW OR USED VEHICLES))

- VEHICLE SALES (NEW OR USED VEHICLES). VEHICLE SALES ARE SUBJECT TO PLANNING BOARD APPROVAL AND SHALL BE PERMITTED IN THE EVC, NVC, DVC AND PT DISTRICTS, PROVIDED THAT:
1. SIZE OF SITE. THE SITE SHALL MEET THE MINIMUM LOT SIZE REQUIREMENTS FOR THE DISTRICT IN WHICH THE SITE IS LOCATED.
 2. HEIGHT OF BUILDING. THE HEIGHT OF THE PRINCIPAL BUILDING SHALL NOT EXCEED ONE STORY, OR 20 FEET, IN THE OFFICE AND DISPLAY AREAS. A BUILDING USED FOR A SERVICE AREA SHALL NOT EXCEED THE HEIGHT OF 25 FEET.
 3. BUILDING COVERAGE. ALL BUILDINGS COMBINED SHALL NOT COVER OR ENCOMPASS MORE THAN 25% OF TOTAL LAND AREA ALLOCATED TO SAID ESTABLISHMENTS.
 4. SIGNS SHALL BE IN ACCORDANCE WITH THE SIGNS SECTION OF THIS CHAPTER.
 5. SETBACKS. NO PART OF ANY BUILDING SHALL BE CLOSER THAN 50 FEET TO ANY PROPERTY LINE. NO VEHICLES SHALL BE DISPLAYED CLOSER THAN 15 FEET FROM THE FRONT YARD PROPERTY LINE.
 6. PAVING AND DRAINAGE. ALL AREAS NOT REQUIRED FOR LANDSCAPING AND OTHER PURPOSES (WHETHER REGULATED BY THE ORDINANCE OR NOT) SHALL BE STONED AND PROPERLY DRAINED.
 7. LANDSCAPING. ALL LANDSCAPING SHALL BE IN ACCORDANCE WITH THE LANDSCAPING REQUIREMENTS OF THIS CHAPTER.
 8. ALL VEHICLE SERVICE ACTIVITIES AND OPERATIONS SHALL BE CONDUCTED WITHIN FULLY ENCLOSED STRUCTURES. NO COMMERCIAL GASOLINE STATIONS SHALL BE PERMITTED AS PART OF A VEHICLE SALES FACILITY. A GASOLINE DISPENSING FACILITY WHICH IS AN INTEGRAL PART OF SAID OPERATION AND IS NOT OPEN TO THE PUBLIC MAY BE PERMITTED, SUBJECT TO PLANNING BOARD APPROVAL OF THE LOCATION OF THESE FACILITIES ON THE SITE.
 9. ENTRANCES AND EXITS. ALL SERVICE ENTRANCES AND EXITS SHALL BE LOCATED AT THE REAR OR SIDE OF THE PRINCIPAL BUILDINGS.
 10. LIGHTING. NO FLASHING OR FLOCKING LIGHTS MAY BE USED. EXTERIOR LIGHTING SHALL BE ARRANGED SO THAT IT IS DEFLECTED AWAY FROM ADJACENT LAND USES AND SHOULD BE ARRANGED SO AS NOT TO OBSTRUCT OR DETER THE VISIBILITY OF DRIVERS OR PEDESTRIANS. LIGHTING FIXTURES ILLUMINATING THE FRONT YARD AREA OF THE SITE SHALL NOT EXCEED 30 FEET IN HEIGHT AND SHALL BE ORNAMENTAL AND ARCHITECTURALLY COMPATIBLE WITH THE BUILDING.
 11. ACCESS AND EGRESS FOR TRAFFIC. THERE SHALL BE ONE CURB CUT PERMITTED ALONG THE FRONT PROPERTY LINE OF THE SITE. ALL TRAFFIC ACCESS AND EGRESS POINTS SHALL BE SO DESIGNED TO ASSURE THE SAFE CIRCULATION OF VEHICULAR TRAFFIC TO AND FROM THE SITE.
 12. FENCES AND WALLS. ANY FENCES OR WALLS MUST BE ERECTED SUBJECT TO THE CONDITIONS SET FORTH IN THIS CHAPTER.
 13. ON-SITE PARKING. THERE SHALL BE ONE ON-SITE PARKING SPACE FOR EVERY FULL-TIME EMPLOYEE. IN ADDITION, THERE SHALL BE A MINIMUM OF FIVE CUSTOMER ON-SITE PARKING SPACES. EACH EMPLOYEE OR CUSTOMER ON-SITE PARKING SPACE SHALL BE CLEARLY MARKED AND SHALL BE PROVIDED AS DEFINED IN THIS CHAPTER.
 14. VEHICULAR TOWING SHALL BE PERMITTED AS AN ACCESSORY USE TO A VEHICLE SALES FACILITY. SCREENING OF VEHICLES ON THE SITE MUST COMPLY WITH THE DESIGN STANDARDS OF THIS CHAPTER.

PUBLIC UTILITIES

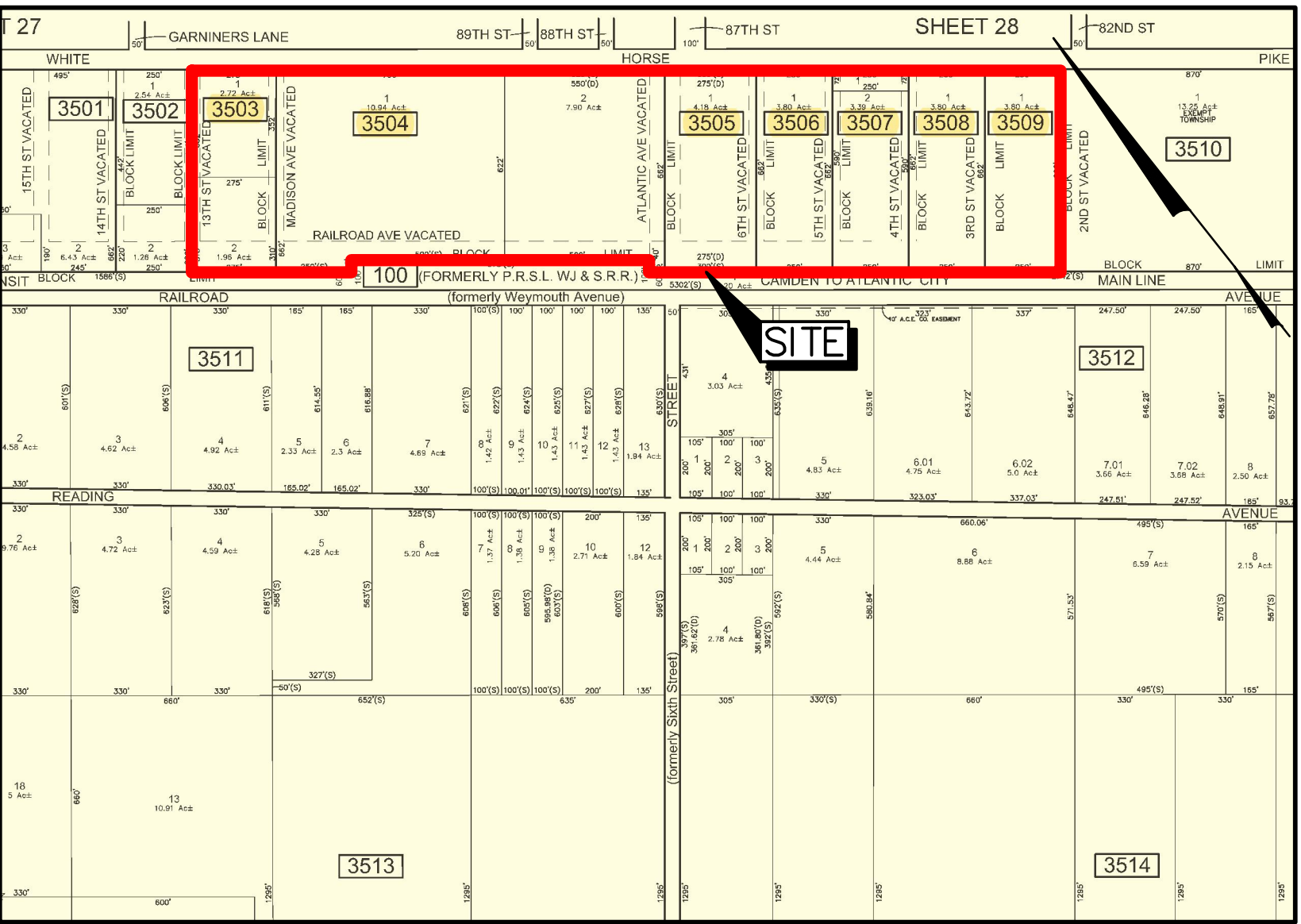
CONNECTV REAL ESTATE DEPARTMENT
5100 HARDING HWY., SUITE 399
MAYS LANDING, NJ 08330-9902

PUBLIC SERVICE ELECTRIC & GAS COMPANY
MANAGER-CORPORATE PROPERTIES
800 PARK PLAZA, T8B
NEWARK, NJ 07102

STATE HIGHWAY ROUTE 30
1035 PARKWAY AVENUE
TRENTON, NJ 08626



Know what's below.
Call before you dig.



OFFICIAL TAX MAP OF MULICA TOWNSHIP
SCALE: 1" = 500'

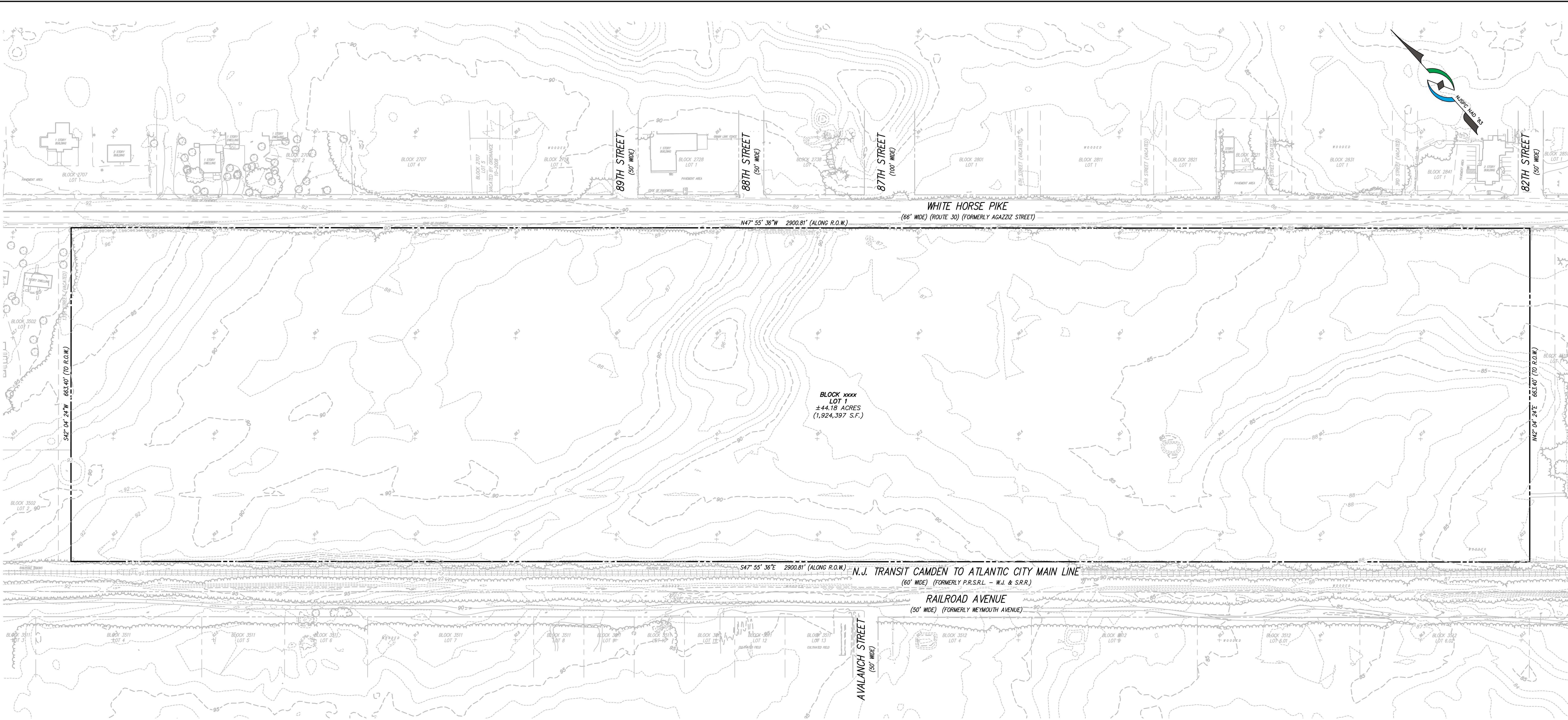
MULICA TOWNSHIP CERTIFIED OWNER'S LIST WITHIN 200'

BLK	LOT	CLASS	OWNER NAME	STREET ADDRESS	CITY/STATE	ZIP	LOCATION
100	1	5A	STATE OF NEW JERSEY DOT	ONE PENN PLAZA E	CH229NEWARK, NJ	07105	RAILROAD 2,3,4,5,6,7,8,9,10
2707	1	4A	AW HOLDINGS, L.L.C.	3040 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3040 WHITE HORSE PIKE
2707	2	4A	PLAGEMAN, CONCETTA	3100 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3100 WHITE HORSE PIKE
2707	4	1	McDERMOTT, JOHN & CHARMATNE	2765 SEVENTH AVENUE	SWEETWATER, NJ	08037	3109 MOSS MILL ROAD
2718	1	1	CAPORALE, DANIEL P. (UCT)	3134 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3122 WHITE HORSE PIKE
2728	1	4A	CAPORALE, DANIEL P. (UCT)	3134 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3134-3136 WHITE HORSE PIKE
2738	1	1	CAPORALE, DANIEL P. (UCT)	3134 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3142 WHITE HORSE PIKE
2801	1	1	JADA ENTERPRISES, L.L.C.	227 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3200 WHITE HORSE PIKE
2811	1	1	JADA ENTERPRISES, L.L.C.	227 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3208 WHITE HORSE PIKE
2821	1	1	JADA ENTERPRISES, L.L.C.	227 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3218 WHITE HORSE PIKE
2821	2	4A	APONTE, MICHAEL A.	5018 MOSS MILL ROAD	EGG HARBOR CITY, NJ	08215	3222 WHITE HORSE PIKE
2831	1	1	JADA ENTERPRISES, L.L.C.	227 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3228 WHITE HORSE PIKE
2841	1	4A	COLUMBIA II PARTNERS	3238 WHITE HORSE PIKE	HAMMONTON, NJ	08037	3238 WHITE HORSE PIKE
2851	1	4A	NJ CARP APP TR & ED FUND	75 FIELDCREST AVENUE	EDISON, NJ	08837	3300 WHITE HORSE PIKE
3502	1	4A	EAST GATE MOBILE, L.L.C.	847 12th STREET	HAMMONTON, NJ	08037	3033 WHITE HORSE PIKE
3510	1	1	KML BUILDING CORP. NJ	650 RIDGE ROAD, STE #200	PITTSBURGH, PA	15205	3301 WHITE HORSE PIKE
3511	3	2	BEMBRY, EMMA GENE	3030 READING AVENUE	HAMMONTON, NJ	08037	3030 WHITE HORSE PIKE
3511	4	15F	MARTS, ROBERT V. & JENNIFER	3044 READING AVENUE	HAMMONTON, NJ	08037	3044 WHITE HORSE PIKE
3511	5	2	ADAMSON, JAMES & JEAN	P O BOX 348	ELWOOD, NJ	08217	3100 READING AVENUE
3511	6	2	ROBLIN, JAMES JR.	3106 READING AVENUE	HAMMONTON, NJ	08037	3106 READING AVENUE
3511	7	2	WILSBACH, JOSEPH A. & DONNA M.	3114 READING AVENUE	HAMMONTON, NJ	08037	3114 READING AVENUE
3511	8	2	BRACARELLO, RONNY LYNN	3128 READING AVENUE	HAMMONTON, NJ	08037	3128 READING AVENUE
3511	9	1	DE MARCO, ANTHONY C JR	227 CHERRY STREET	HAMMONTON, NJ	08037	3132 READING AVENUE
3511	10	1	DI MATTEO, JOSEPH J. JR.	3140 READING AVENUE	HAMMONTON, NJ	08037	3136 READING AVENUE
3511	11	2	DI MATTEO, JOSEPH J. JR.	3140 READING AVENUE	HAMMONTON, NJ	08037	3140 READING AVENUE
3511	12	1	DI MATTEO, JOSEPH J. JR.	3140 READING AVENUE	HAMMONTON, NJ	08037	3144 READING AVENUE
3511	13	1	DI MATTEO, JOSEPH J. JR.	3140 READING AVENUE	HAMMONTON, NJ	08037	3148 READING AVENUE
3512	4	2	APPLEGATE, OLGA	2847 ALLENDALE PL. NW	WASHINGTON, DC	20008	3210 READING AVENUE
3512	5	2	IULIANETTI, JOHN L.	3212 READING AVENUE	HAMMONTON, NJ	08037	3212 READING AVENUE
3512	6.01	1	BROWN, DEANNA ALISE & K. DENELSBECK	745 SOUTH FIRST ROAD	HAMMONTON, NJ	08037	3226 READING AVENUE
3512	6.02	2	AMENDOLIA, DOMENIC P. III	3230 READING AVENUE	HAMMONTON, NJ	08037	3230 READING AVENUE
3512	7.01	2	PITTS, DAVID E. & LAURETTE J.	3252 READING AVENUE	HAMMONTON, NJ	08037	3252 READING AVENUE

DATE	1	INITIAL SUBMISSION	SK	D.J.F.
ISSUE DRAFT	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULICA TOWNSHIP SHT 35, BL 3503, LOTS 1 & 2, BL 3504, LOTS 1 & 2, BL 3505, LOT 1, BL 3507, LOTS 1 & 2, BL 3508, LOT 1, BL 3509, LOT 1 TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY				
INFORMATION SHEET				
BHT DESIGN GROUP 5555 ANGERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301				
DAVID J. FLEMING, P.E. REGISTERED PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 246033321600				
DRAFT 09/16/2022 BHT 001.03				
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			DRAWN BY	SK
			CHECKED BY	SK
			DATE	2 OF 24
			DRAWING NO.	C0002

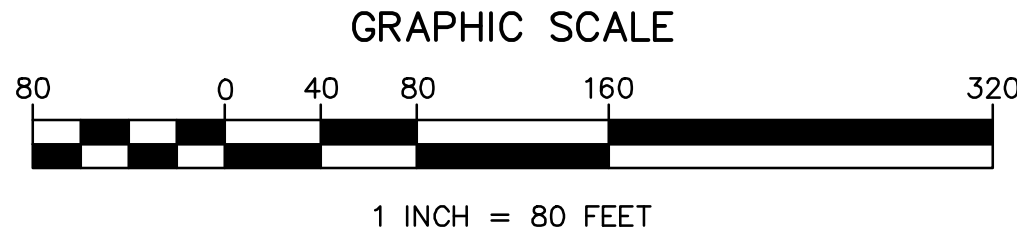
DATE: 09/16/2022
DRAWN BY: J. FLEMING
CHECKED BY: J. FLEMING
APPROVED BY: J. FLEMING

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

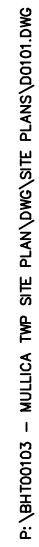


LEGEND

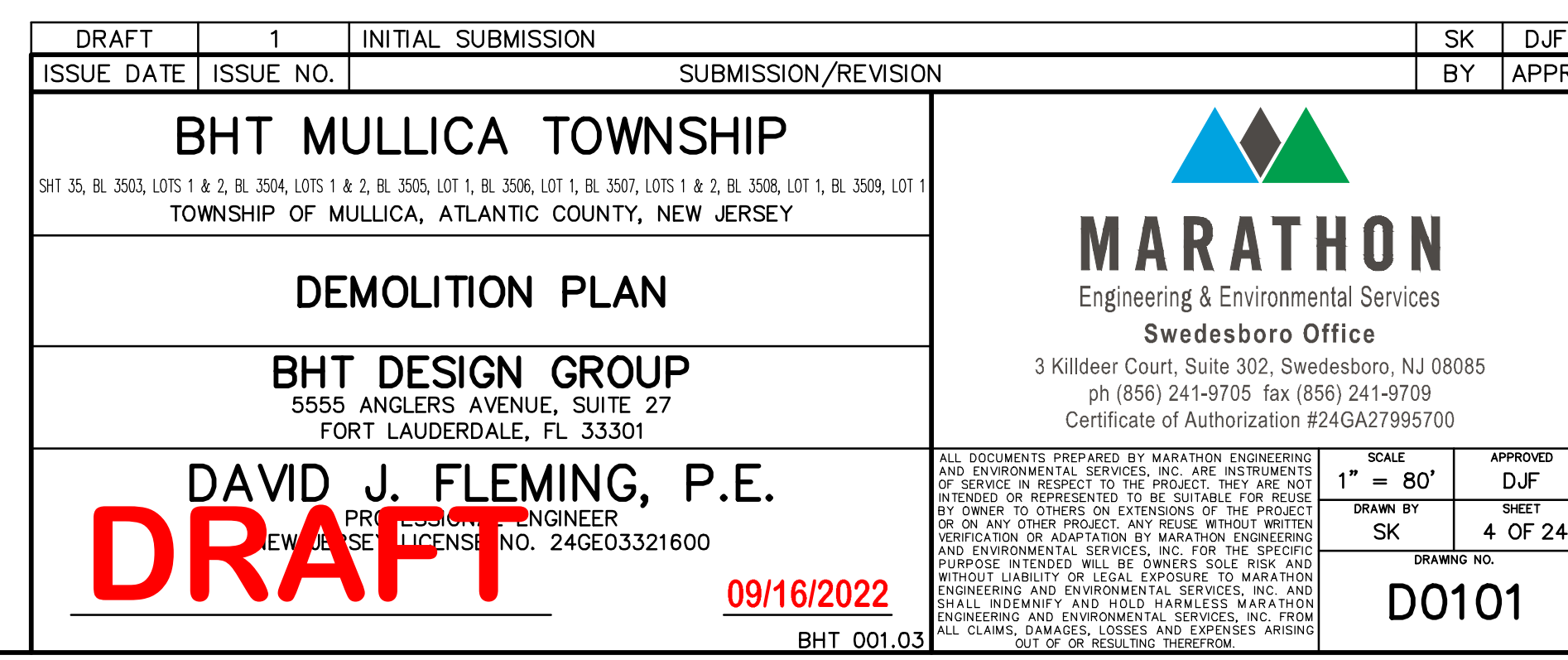
- SUBJECT BOUNDARY LIMIT
- RIGHT-OF-WAY LINE
- ADJACENT LOT LINE
- EASEMENT LINE
- EXISTING CHAIN LINK FENCE LINE
- EXISTING OVERHEAD WIRE LINE
- EXISTING WOODS LIMIT LINE
- EXISTING WATER BODY LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING MAJOR CONTOUR LINE
- TEST PIT LOCATION

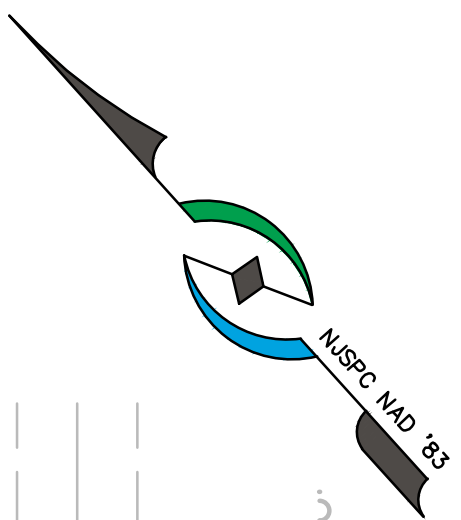


DRAFT	1	INITIAL SUBMISSION	SK	D.J.F.
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULICA TOWNSHIP SHT. 35, BL. 3503, LOTS 1 & 2, BL. 3504, LOTS 1 & 2, BL. 3505, LOT 1, BL. 3506, LOT 1, BL. 3507, LOTS 1 & 2, BL. 3508, LOT 1, BL. 3509, LOT 1				
EXISTING CONDITIONS PLAN				
BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301				
DAVID J. FLEMING, P.E. PRINCIPAL ENGINEER NEW JERSEY LICENSE NO. 246E03321600				
DRAFT				
09/16/2022				
BHT 001.03				
MARATHON Engineering & Environmental Services Swedesboro Office 3 Killdeer Court, Suite 302, Swedesboro, NJ 08085 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700				
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SCALE: 1" = 80' D.J.F. SK 3 OF 24				
DRAWING NO. C1801				



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NOTE:
THE DESIGN CRITERIA AND BULK/AREA REQUIREMENTS FOR THIS PROJECT ARE TAKEN FROM THE CODE OF THE TOWNSHIP OF MULLICA, LAND USE ORDINANCE ADOPTED 06/22/2021.

- ORDINANCE 8144-12311 (VEHICLE SALES (NEW OR USED VEHICLES):
- VEHICLE SALES (NEW OR USED VEHICLES). VEHICLE SALES ARE SUBJECT TO PLANNING BOARD APPROVAL AND SHALL BE PERMITTED IN THE EVC, NVC, DVC AND PT DISTRICTS, PROVIDED THAT:
1. SIZE OF SITE. THE SITE SHALL MEET THE MINIMUM LOT SIZE REQUIREMENTS FOR THE DISTRICT IN WHICH THE SITE IS LOCATED.
2. HEIGHT OF BUILDING. THE HEIGHT OF THE PRINCIPAL BUILDING SHALL NOT EXCEED ONE STORY, OR 20 FEET, IN THE OFFICE AND DISPLAY AREAS. A BUILDING USED FOR A SERVICE AREA SHALL NOT EXCEED THE HEIGHT OF 25 FEET.
3. BUILDING COVERAGE. ALL BUILDINGS COMBINED SHALL NOT COVER OR ENCOMPASS MORE THAN 25% OF TOTAL LAND AREA ALLOCATED TO SAID ESTABLISHMENTS.
4. SIGNS SHALL BE IN ACCORDANCE WITH THE SIGNS SECTION OF THIS CHAPTER.
5. SETBACKS. NO PART OF ANY BUILDING SHALL BE CLOSER THAN 50 FEET TO ANY PROPERTY LINE. NO VEHICLES SHALL BE DISPLAYED CLOSER THAN 15 FEET FROM THE FRONT YARD PROPERTY LINE.
6. PAVING AND DRAINAGE. ALL AREAS NOT REQUIRED FOR LANDSCAPING AND OTHER PURPOSES (WHETHER REGULATED BY THE ORDINANCE OR NOT) SHALL BE STONED AND PROPERLY DRAINED.
7. LANDSCAPING. ALL LANDSCAPING SHALL BE IN ACCORDANCE WITH THE LANDSCAPING REQUIREMENTS OF THIS CHAPTER.
8. ALL VEHICLE SERVICE ACTIVITIES AND OPERATIONS SHALL BE CONDUCTED WITHIN FULLY ENCLOSED STRUCTURES. NO COMMERCIAL GAS STATION SERVICE AREAS OR A VEHICLE SALES FACILITY, A GASOLINE DISPENSING FACILITY WHICH IS AN INTEGRAL PART OF SAID OPERATION AND IS NOT OPEN TO THE PUBLIC MAY BE PERMITTED, SUBJECT TO PLANNING BOARD APPROVAL OF THE LOCATION OF THESE FACILITIES ON THE SITE.
9. ENTRANCES AND EXITS. ALL SERVICE ENTRANCES AND EXITS SHALL BE LOCATED AT THE REAR OR SIDE OF THE PRINCIPAL BUILDINGS.
10. LIGHTING. NO FLASHING OR FLICKERING LIGHTS MAY BE USED. EXTERIOR LIGHTING SHALL BE ARRANGED SO THAT IT IS DEFLECTED AWAY FROM THE SITE. LIGHTING SHALL BE ARRANGED SO AS NOT TO OBSTRUCT OR DETER THE VISIBILITY OF PEDESTRIANS OR PEDESTRIANS, LIGHTING FIXTURES ILLUMINATING THE FRONT YARD AREA OF THE SITE SHALL NOT EXCEED 30 FEET IN HEIGHT AND SHALL BE ORNAMENTAL AND ARCHITECTURALLY COMPATIBLE WITH THE BUILDING.
11. ACCESS AND EGRESS FOR TRAFFIC. THERE SHALL BE ONE CURB CUT PERMITTED ALONG THE FRONT PROPERTY LINE OF THE SITE. ALL TRAFFIC ACCESS AND EGRESS POINTS SHALL BE SO DESIGNED TO ASSURE THE SAFE CIRCULATION OF VEHICULAR TRAFFIC AND TO FLOW FROM THE SITE.
12. FENCES AND WALLS. ANY FENCES OR WALLS MUST BE ERECTED SUBJECT TO THE CONDITIONS SET FORTH IN THIS CHAPTER.
13. ON-SITE PARKING. THERE SHALL BE ONE ON-SITE PARKING SPACE FOR EVERY FULL-TIME EMPLOYEE. IN ADDITION, THERE SHALL BE A MINIMUM OF FIVE CUSTOMER ON-SITE PARKING SPACES. EACH EMPLOYEE OR CUSTOMER ON-SITE PARKING SPACE SHALL BE CLEARLY MARKED AND SHALL BE PROVIDED AS DEFINED IN THIS CHAPTER.
14. VEHICULAR TOWING SHALL BE PERMITTED AS AN ACCESSORY USE TO A VEHICLE SALES FACILITY. SCREENING OF VEHICLES ON THE SITE MUST COMPLY WITH THE DESIGN STANDARDS OF THIS CHAPTER.

GRAPHIC SCALE

80 0 40 80 160 320

1 INCH = 80 FEET

DRAFT	1	INITIAL SUBMISSION	SK	D/F
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.

BHT MULICA TOWNSHIP

SHT 35, 8, 3503, LOTS 1 & 2, 8, 3504, LOTS 1 & 2, 8, 3505, LOT 1 & 2, 3506, LOT 1 & 2, 3507, LOTS 1 & 2, 3508, LOT 1, 8, 3509, LOT 1

TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY



MARATHON
Engineering & Environmental Services

Swedesboro Office
3 Killdeer Court, Suite 302, Swedesboro, NJ 08085
ph (856) 241-0705 fax (856) 241-0709
Certificate of Authorization #24GA2799500

OVERALL SITE PLAN

BHT DESIGN GROUP

5555 ANGLERS AVENUE, SUITE 27
FORT LAUDERDALE, FL 33301

DAVID J. FLEMING, P.E.

PRINCIPAL ENGINEER
NEW JERSEY LICENSE NO. 24962.03312690

DRAFT

09/16/2022

BHT 001.0.3

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1" = 80'

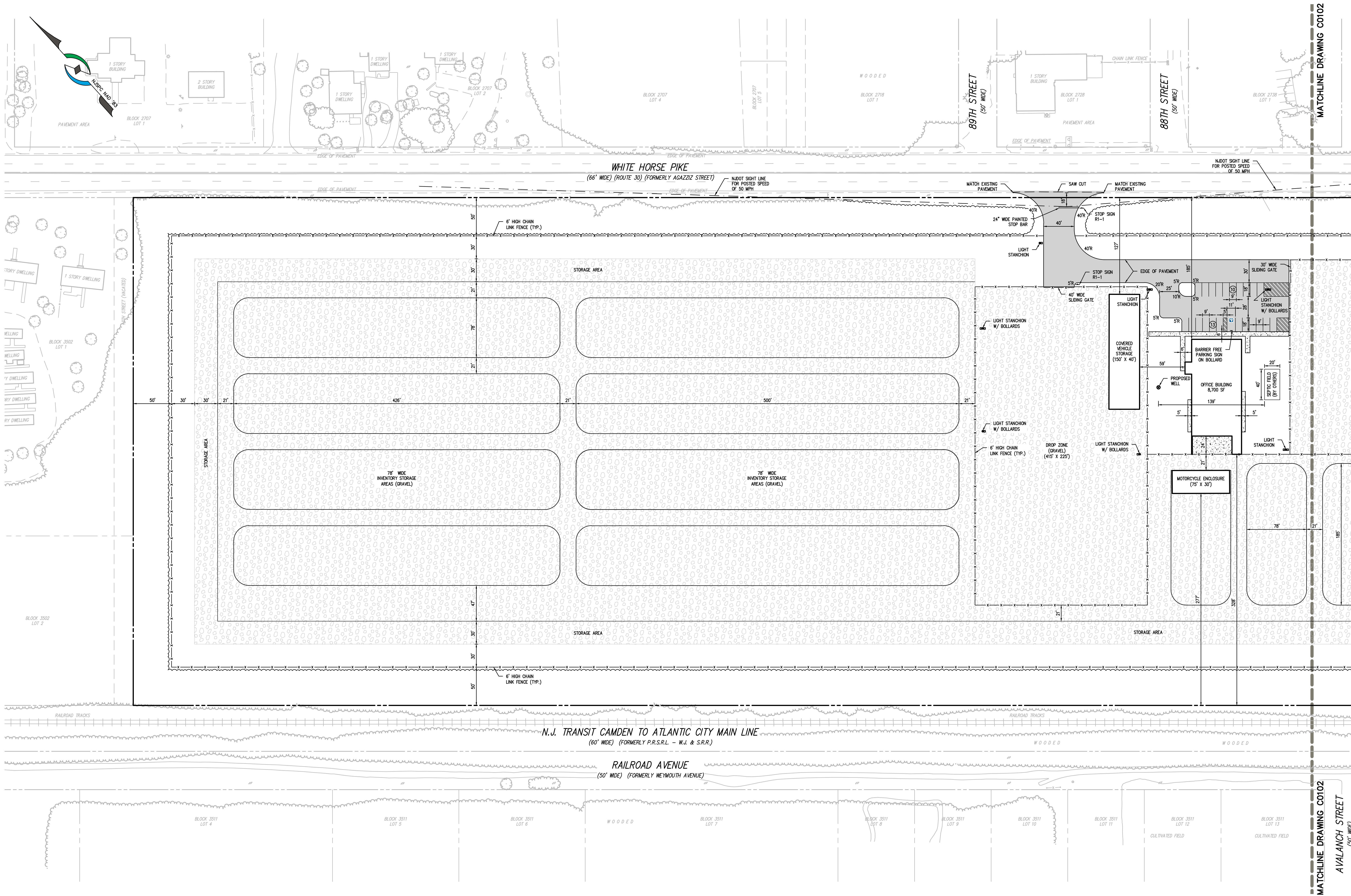
DATE BY SK

APPROVED D/F

SHEET 5 OF 24

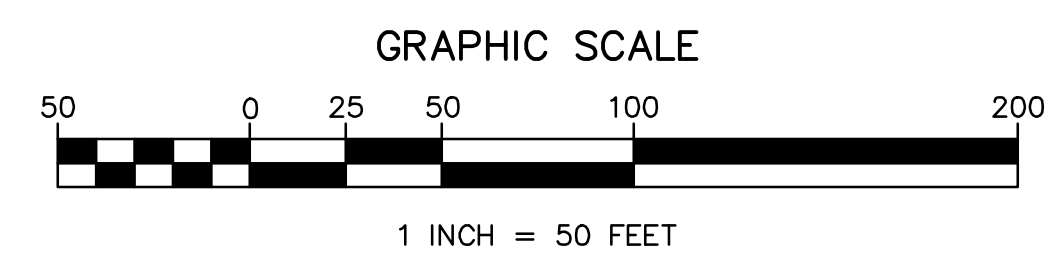
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DATE: 09/16/2022
DRAWN BY: DAVID J. FLEMING, P.E.
CHECKED BY: JEFFREY A. FLEMING, P.E.
SCALE: 1" = 50'
SHEET: 6 OF 24
PROJECT: BHT MULICA TOWNSHIP
DRAWING NO.: C0101



LEGEND

- SUBJECT BOUNDARY LIMIT
- RIGHT-OF-WAY LINE
- ADJACENT LOT LINE
- EASEMENT LINE
- EXISTING CHAIN LINK FENCE LINE
- EXISTING OVERHEAD WIRE LINE
- EXISTING WOODS LIMIT LINE
- EXISTING WATER BODY LINE
- PAVEMENT SURFACE AREA
- GRAVEL SURFACE AREA
- PROPOSED WOODS LIMIT LINE

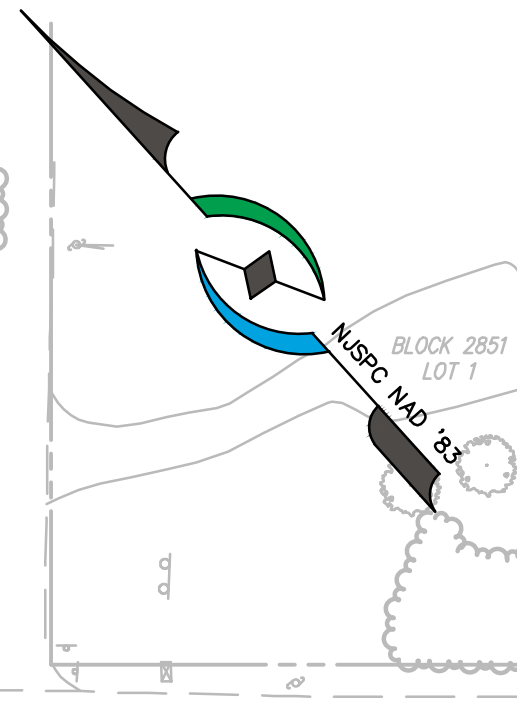


EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

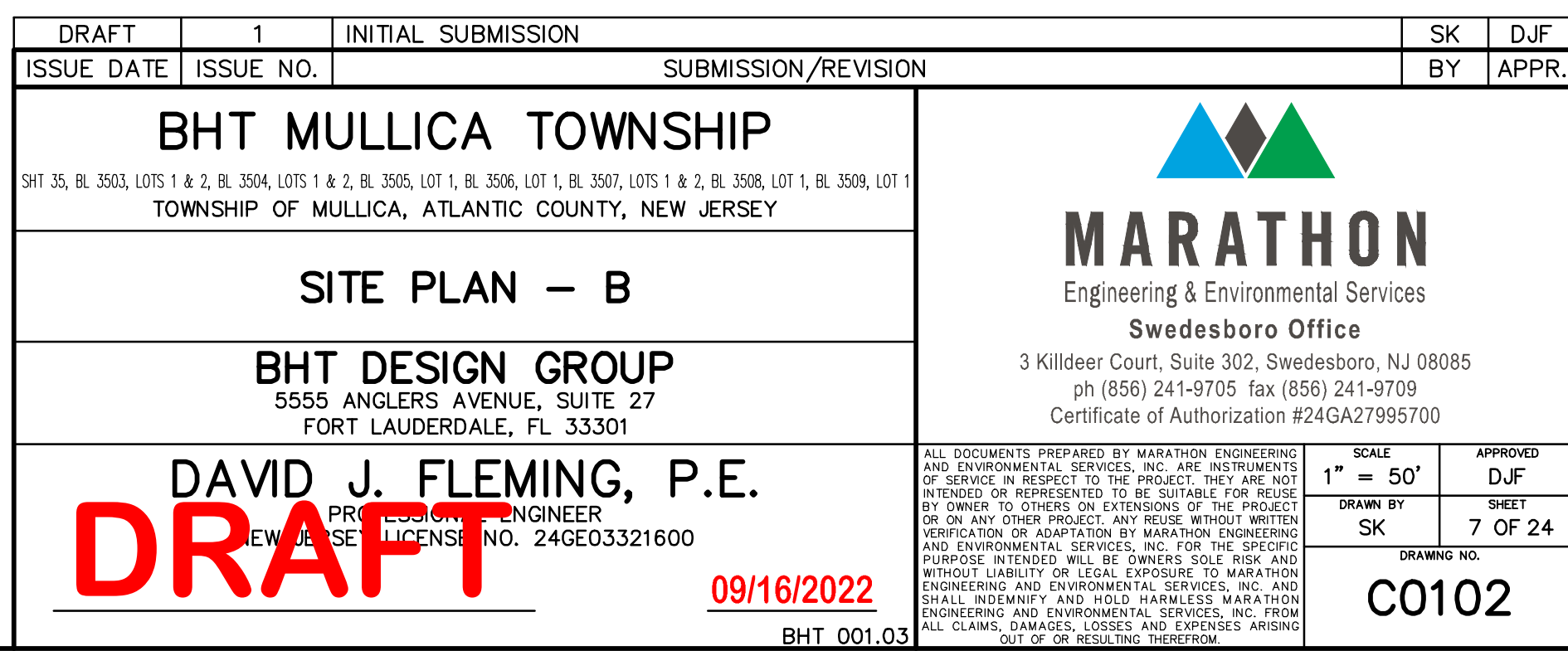
DRAFT	1	INITIAL SUBMISSION	SK	D.J.F.
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULICA TOWNSHIP SHT. 35, BL. 3501, LOTS 1 & 2, BL. 3504, LOTS 1 & 2, BL. 3505, LOTS 1, BL. 3506, LOTS 1 & 2, BL. 3508, LOTS 1, BL. 3509, LOTS 1				
SITE PLAN - A				
BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301				
DAVID J. FLEMING, P.E. PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 246033321600				
DRAFT				
09/16/2022				
BHT 001.03				

MARATHON
Engineering & Environmental Services
Swedesboro Office
3 Killdeer Court, Suite 302, Swedesboro, NJ 08085
ph (856) 241-9705 fax (856) 241-9709
Certificate of Authorization #24GA27995700

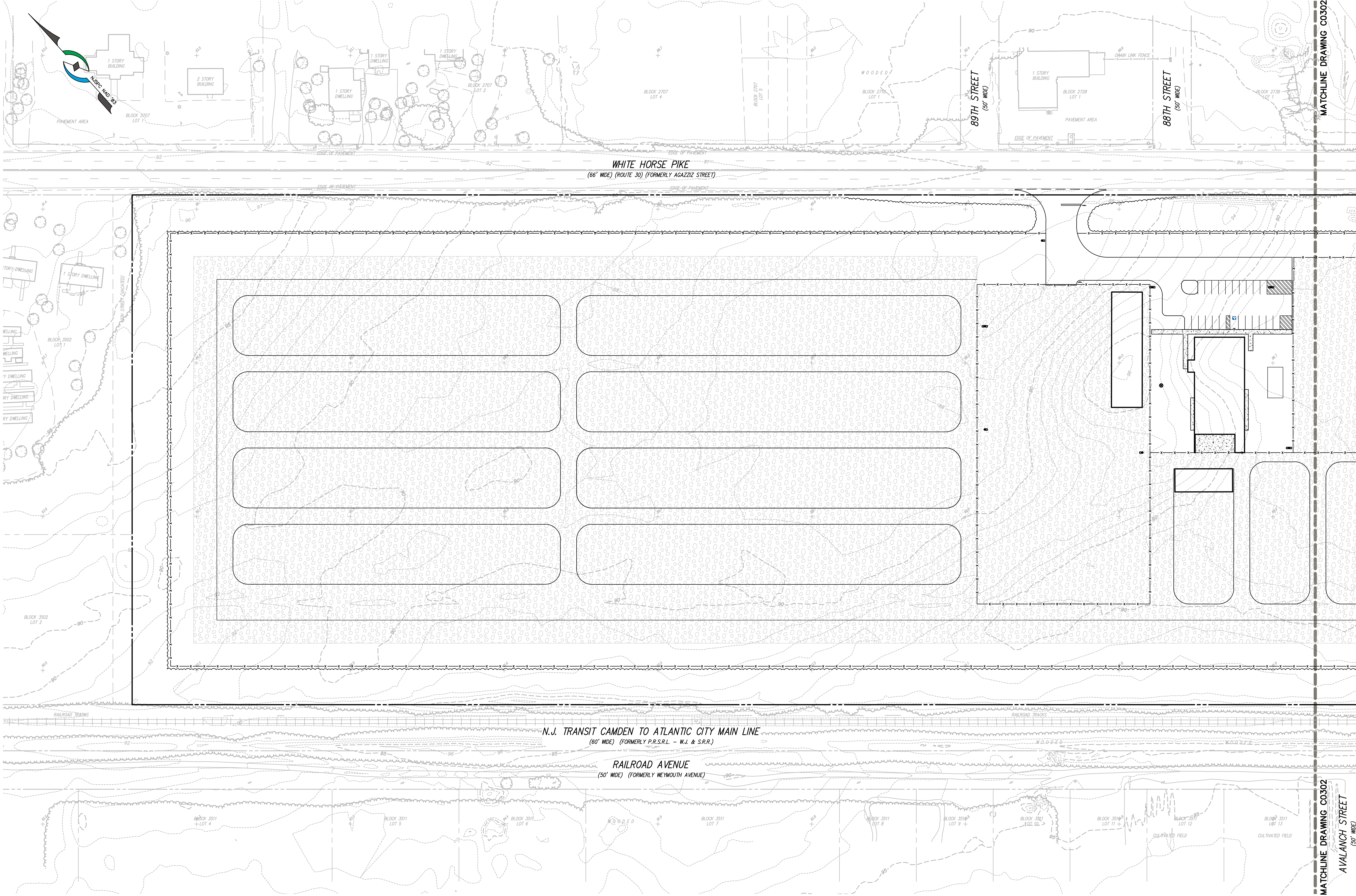
SCALE	APPROVED
1" = 50'	D.J.F.
DRAWN BY	SK
SHEET	6 OF 24
DRAWING NO.	C0101



	SUBJECT BOUNDARY LIMIT
	RIGHT-OF-WAY LINE
	ADJACENT LOT LINE
	EASEMENT LINE
	EXISTING CHAIN LINK FENCE LINE
	EXISTING OVERHEAD WIRE LINE
	EXISTING WOODS LIMIT LINE
	EXISTING WATER BODY LINE
	PAVEMENT SURFACE AREA
	GRAVEL SURFACE AREA
	PROPOSED WOODS LIMIT LINE

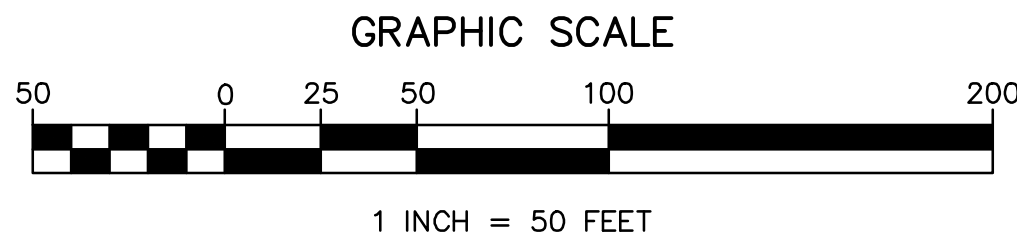


DATE: 09/16/2022
DRAWN BY: DAVID J. FLEMING, P.E.
CHECKED BY: DAVID J. FLEMING, P.E.
SCALE: 1" = 50'
SHEET: 8 OF 24
DRAWING NO.: C0301



LEGEND

- SUBJECT BOUNDARY LIMIT
- RIGHT-OF-WAY LINE
- ADJACENT LOT LINE
- EASEMENT LINE
- EXISTING CHAIN LINK FENCE LINE
- EXISTING OVERHEAD WIRE LINE
- EXISTING WOODS LIMIT LINE
- EXISTING WATER BODY LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING MAJOR CONTOUR LINE
- TP-1
- TEST PIT LOCATION



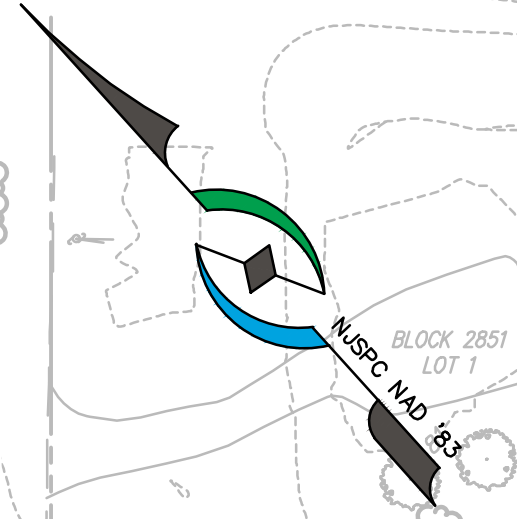
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DRAFT	1	INITIAL SUBMISSION	SK	D.J.F.
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULLICA TOWNSHIP SHT. 35, BL. 3504, LOTS 1 & 2, BL. 3504, LOTS 1 & 2, BL. 3505, LOT 1, BL. 3506, LOTS 1 & 2, BL. 3506, LOT 1, BL. 3506, LOT 1 TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY				
GRADING PLAN - A				
BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301				
DAVID J. FLEMING, P.E. PRINCIPAL ENGINEER NEW JERSEY LICENSE NO. 246033321600				
DRAFT				
09/16/2022				
BHT 001.03				

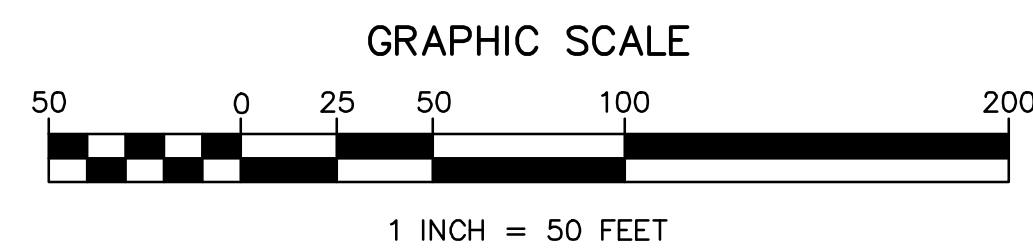
MARATHON
Engineering & Environmental Services
Swedesboro Office
3 Killdeer Court, Suite 302, Swedesboro, NJ 08085
ph (856) 241-9705 fax (856) 241-9709
Certificate of Authorization #24GA27995700

ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. ARE INSTRUMENTS OF SERVICE IN RESPECT TO THE PROJECT THEY ARE NOT INTENDED OR REPRESENTED TO BE A SUBSTITUTE FOR THE DESIGN OR CONSTRUCTION OF ANY PROJECT. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY PROJECT. THE USER SHALL INDEMNIFY AND HOLD HARMLESS MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR IN CONNECTION WITH THE PROJECT.

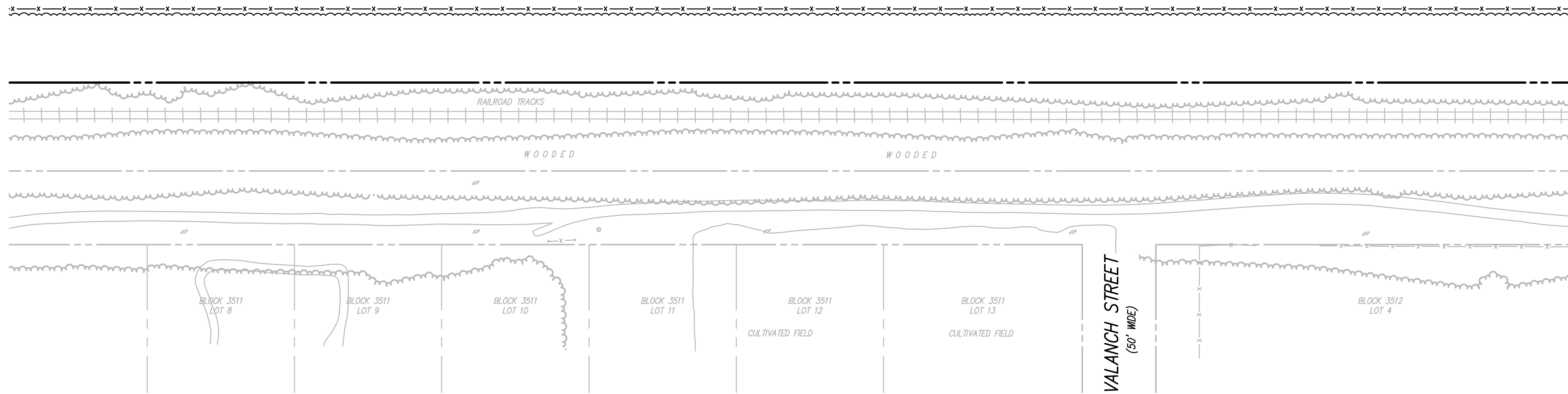
SCALE: 1" = 50'
DRAWN BY: SK
SHEET: 8 OF 24
APPROVED: D.J.F.
DRAWING NO.: C0301



	SUBJECT BOUNDARY LIMIT
	RIGHT-OF-WAY LINE
	ADJACENT LOT LINE
	EASEMENT LINE
	EXISTING CHAIN LINK FENCE LINE
	EXISTING OVERHEAD WIRE LINE
	EXISTING WOODS LIMIT LINE
	EXISTING WATER BODY LINE
	EXISTING MINOR CONTOUR LINE
	EXISTING MAJOR CONTOUR LINE
	TEST PIT LOCATION



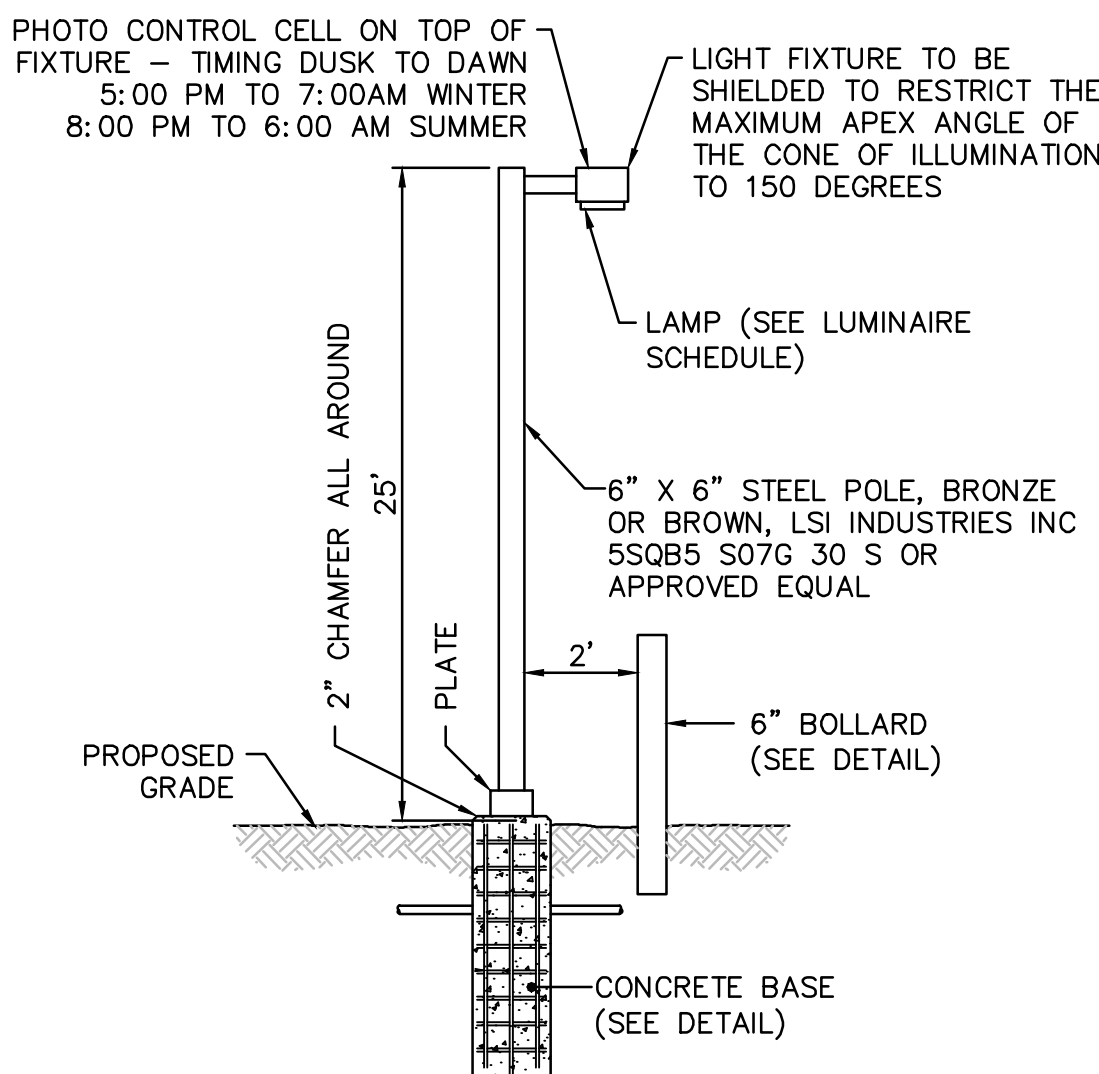
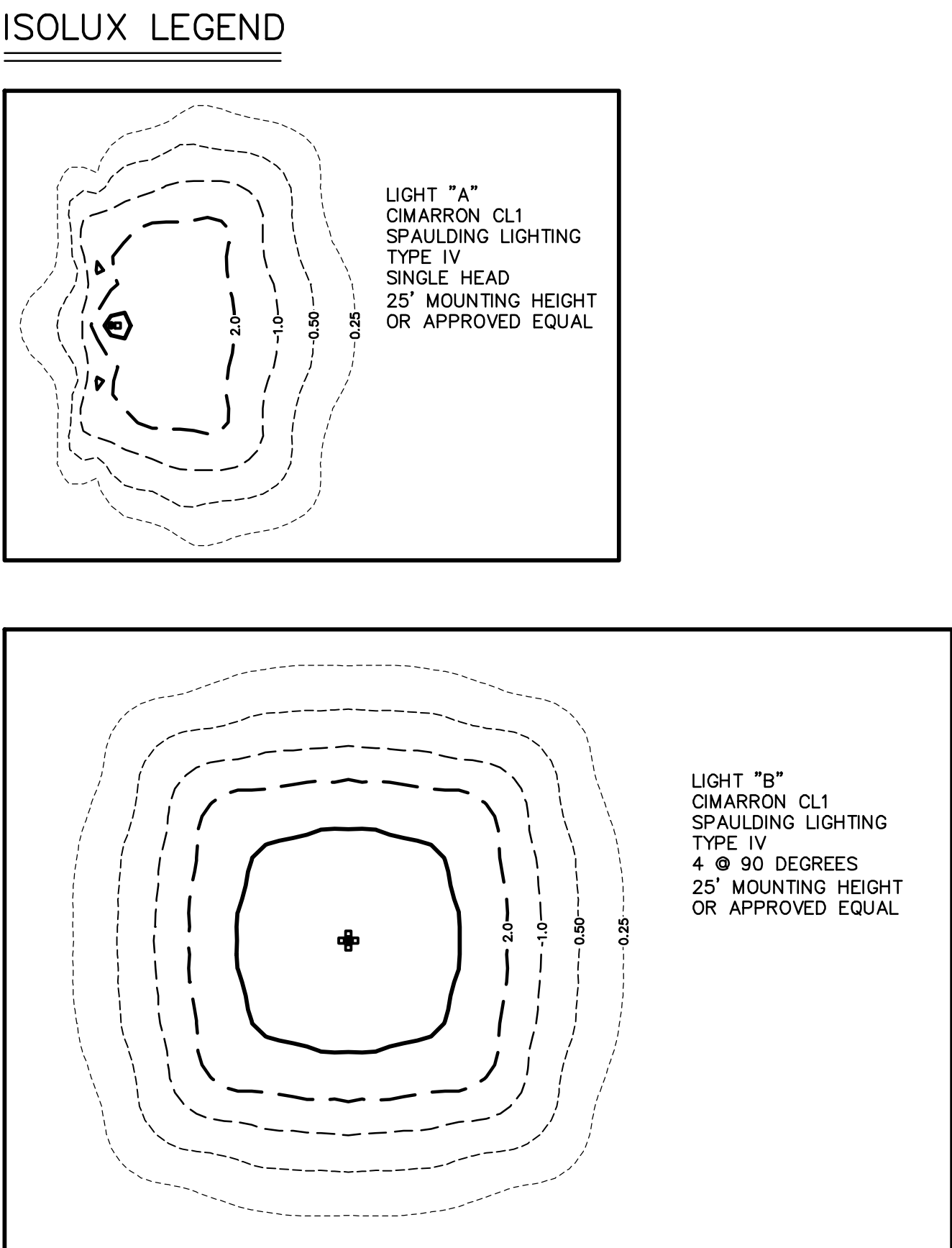
DRAFT	1	INITIAL SUBMISSION	SK	D/F
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULICA TOWNSHIP SH 35, BL 3500, LOTS 1 & 2, BL 3504, LOTS 1 & 2, BL 3505, LOT 1 & 2, BL 3507, LOTS 1 & 2, BL 3509, LOT 1 & 2, BL 3509, LOT 1 TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY			 MARATHON Engineering & Environmental Services	
GRADING PLAN - B			Sweedsboro Office 3 Killedeer Court, Suite 302, Sweedsboro, NJ 08085 ph (856) 241-8705 fax (856) 241-9709 Certificate of Authorization #24G247995700	
BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301			ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, LLC ARE SUBJECTS OF SERVICE IN RESPECT TO THE PROJECT. THEY ARE NOT RETURNED TO THE CLIENT. ANY REQUEST FOR RETURN OF ANY OR ANY OTHER PROJECT, ANY REUSE WITHOUT WRITTEN PERMISSION OR AUTHORIZATION BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, LLC IS PROHIBITED. ANY PURPOSE INTENDED WILL BE CONSIDERED VOID AND INVALID. LOCAL, STATE AND FEDERAL LAWS, ORDINANCES, REGULATIONS AND ENFORCEMENT AGENCIES' MARKETING, ADVERTISING AND PROMOTIONAL MATERIALS FROM ANY SOURCE, INCLUDING BUT NOT LIMITED TO, THE INTERNET, PRINT, TV, RADIO, MAGAZINE, AND NEWSPAPERS ARISING OUT OF OR BEING THE PROPERTY OF MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, LLC ARE THE PROPERTY OF MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, LLC.	
DAVID J. FLEMING, P.E. PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 2460603321600			1" = SCALE DRAWN BY SK SHEET 9 OF 24 DRAFTING NO. C0302	
DRAFT 09/16/2022 BHT 001.03				



LUMINAIRE SCHEDULE								
SYM.	LABEL	QTY	CATALOG NUMBER	DESCRIPTION	LAMP	IES FILE	LUMENS	LLF
		3	CL1-A-90L-UK-4K-4 SINGLE HEAD 25 FT POLE HEIGHT	CIMARRON CL1 SPAULDING LIGHTING	90 LEDS – TYPE IV COLOR 4,000 K	CL1-90L- 4K-4	22286	.95
		4	CL1-A-90L-UK-4K-4 BACK-TO-BACK 25 FT POLE HEIGHT	CIMARRON CL1 SPAULDING LIGHTING	90 LEDS – TYPE IV COLOR 4,000 K	CL1-90L- 4K-4	22286	.95

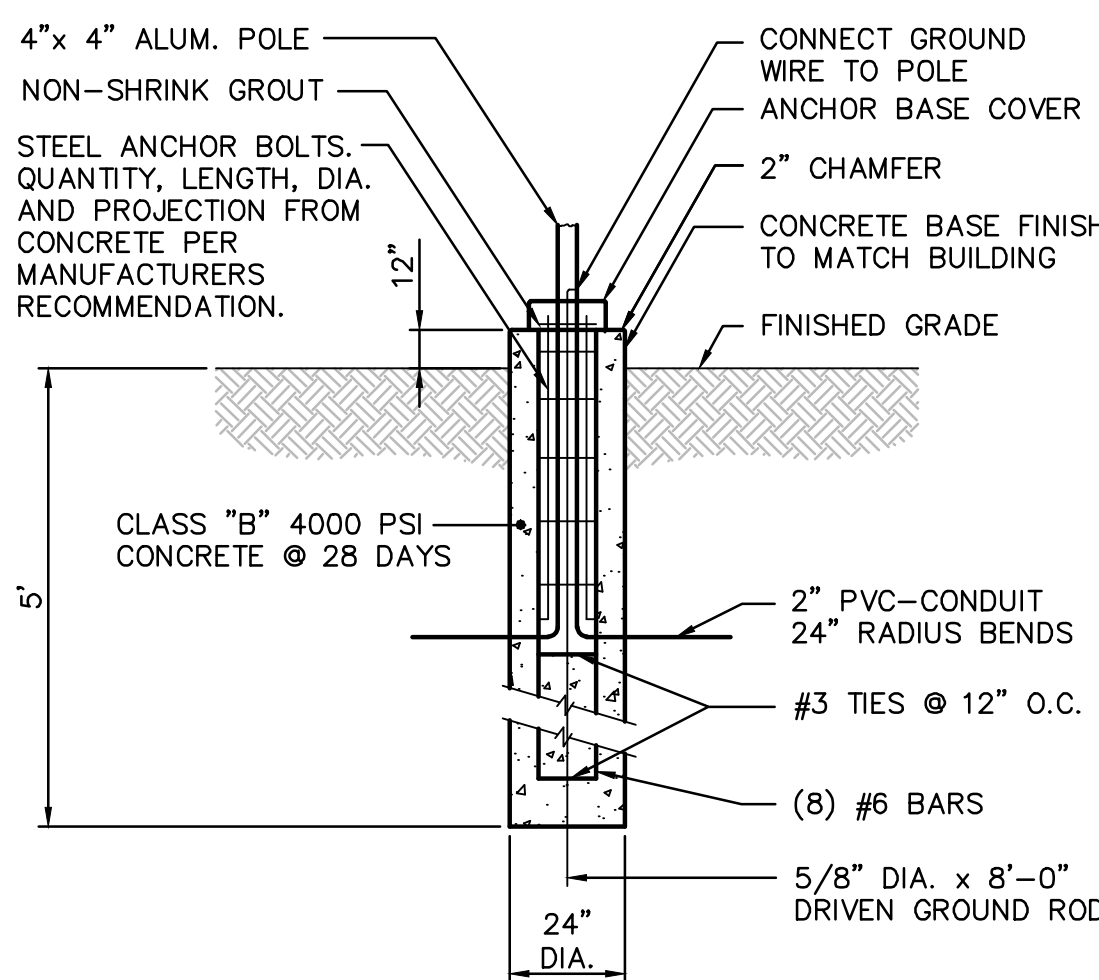
LIGHTING NOTES

1. ALL LIGHTING SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS.
2. NO SHADE TREE SHALL BE PLANTED CLOSER THAN 15 FEET TO ANY PROPOSED LIGHT STANCHION.
3. ALL LUMINAIRES ARE UL LISTED & CSA CERTIFIED.
4. ALL LIGHTING FIXTURES AND POLES SHALL BE BEACON PRODUCTS OR APPROVED EQUAL.
5. ALONG CARPARKING AISLES UTILIZED BY CARS ONLY, THE LIGHTS SHALL BE SETBACK A MINIMUM OF 5 FEET FROM FACE OF CURB WHERE POSSIBLE.
6. LIGHTS SHALL BE PHOTO CONTROLLED.



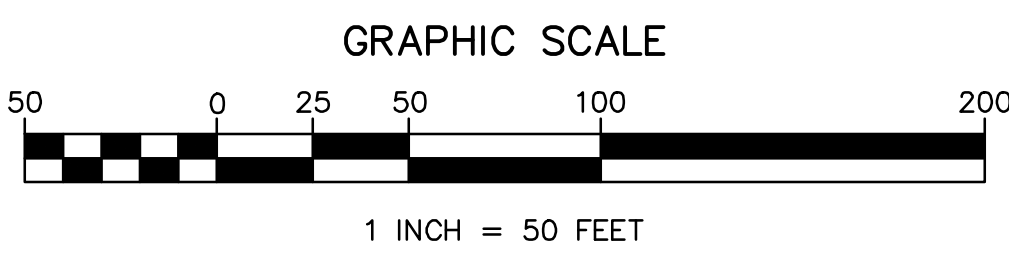
LIGHT STANCHION DETAIL

N.T.S.



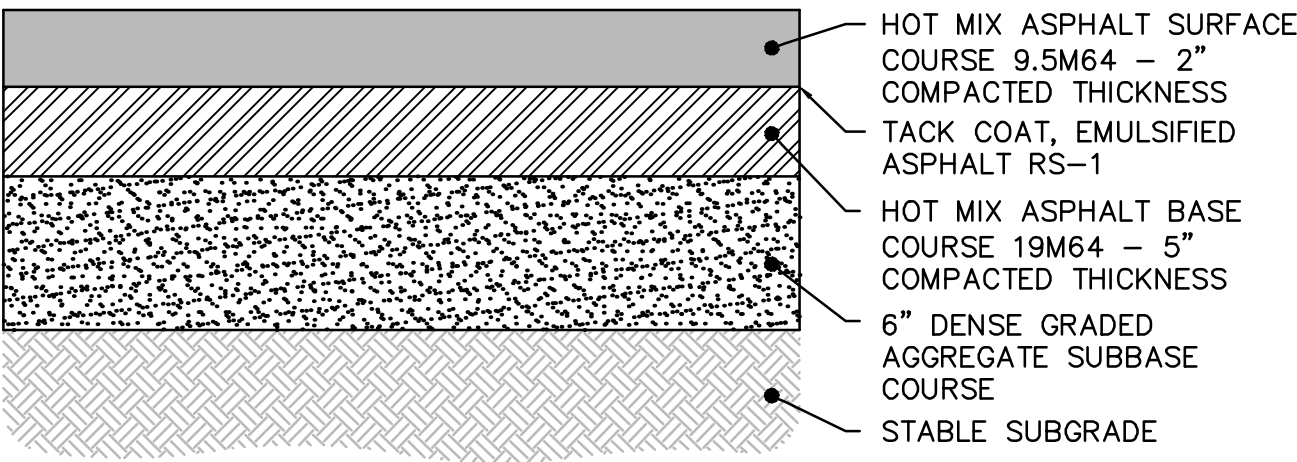
LIGHT BASE DETAIL

N.T.S.



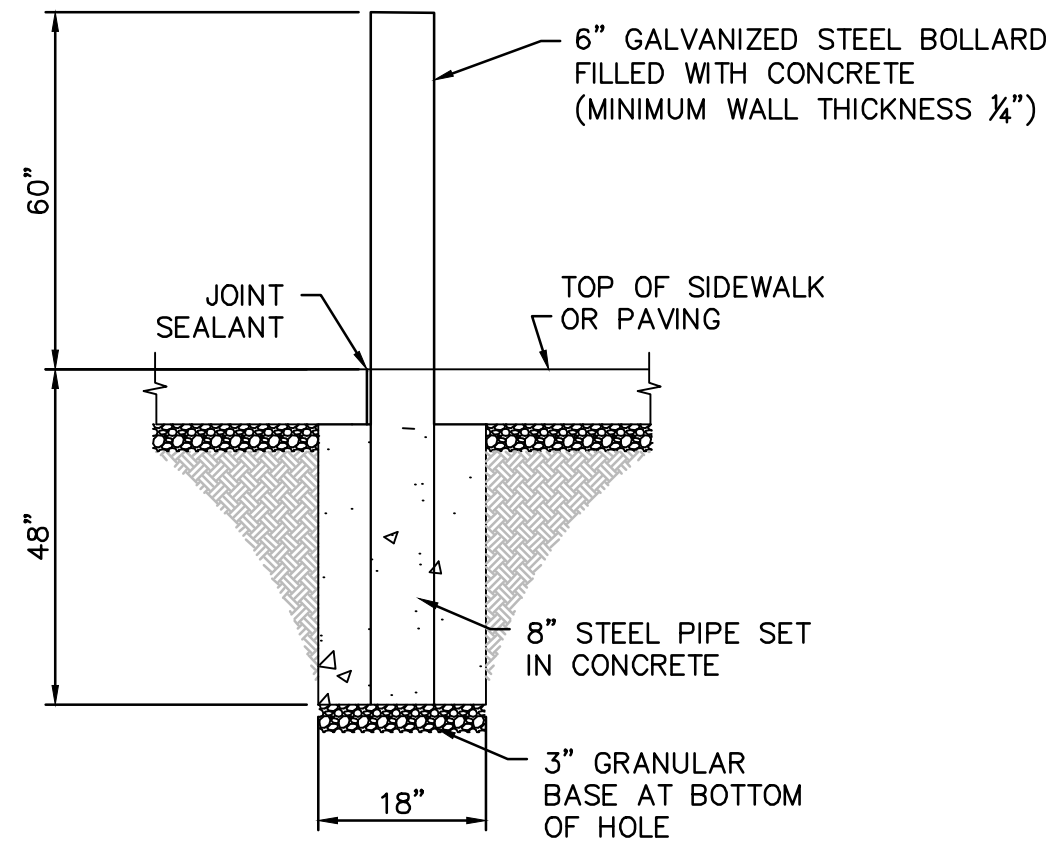
DRAFT	1	INITIAL SUBMISSION		SK	D/F
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION		BY	APPR.
BHT MULICA TOWNSHIP SH 35, BL 3501, LOT 5 1/2, BL 3504, LOT 5 1/2, BL 3505, LOT 1 BL 3506, LOT 1 BL 3507, LOT 5 1/2, BL 3508, LOT 1, BL 3509, LOT 1 TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY					
LIGHTING PLAN BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301				MARATHON Engineering & Environmental Services Swedesboro Office 3 Killdeer Court, Suite 302, Swedesboro, NJ 08085 ph (856) 241-9705 fax (856) 241-3709 Certificate of Authorization #24GAG27995700	
DAVID J. FLEMING, P.E. PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 2466033321600				ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, OR ANY PRODUCT OF SERVICE IN RESPECT TO THE PROJECT, ARE NOT TO BE REPRODUCED OR REPRODUCED IN ANY MANNER, OR IN ANY OTHER MEDIUM, ANY REUSE WITHOUT WRITTEN PERMISSION OF MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES. FOR THE USE AND REPRODUCTION OF ANY OTHER PROJECT, THE USER ASSUMES ALL LIABILITY, DAMAGE, LOSSES, AND SERVICES, INC. AND SHALL INDEMNIFY AND HOLD MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. HARMLESS FROM ALL CLAIMS, DAMAGES, LOSSES, AND SERVICES ARISING OUT OF OR RESULTING THEREFROM.	
DRAFT				1" = 50' SCALE DRAWN BY SK APPROVED D/F SHEET 10 OF 24	
09/16/2022				DRAWING NO. C0701	
BHT 001.03					

DESIGNED BY MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. FOR THE TOWNSHIP OF MULLICA, ATLANTIC COUNTY, NEW JERSEY



ALL SUBGRADE SHALL HAVE 95% COMPACTION PER ASTM D 1557 OR APPROVED BY GEOTECHNICAL ENGINEER.

HEAVY-DUTY PAVING SECTION DETAIL
N.T.S.



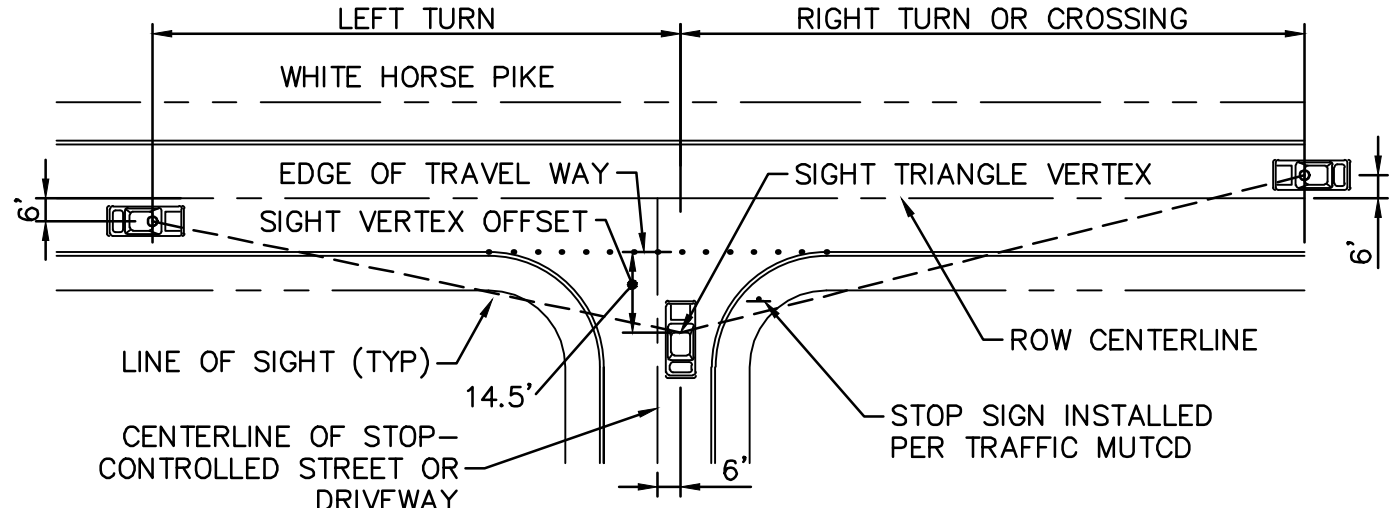
6" BOLLARD DETAIL
N.T.S.

RECOMMENDED INTERSECTION SIGHT DISTANCES (ISD) FOR PASSENGER VEHICLES TURNING FROM STOP-CONTROLLED INTERSECTIONS ONTO THROUGH-TRAVEL STREETS ARE BASED ON THE NJDOT ROADWAY DESIGN MANUAL (REVISED 2008) FIGURE 6-A.

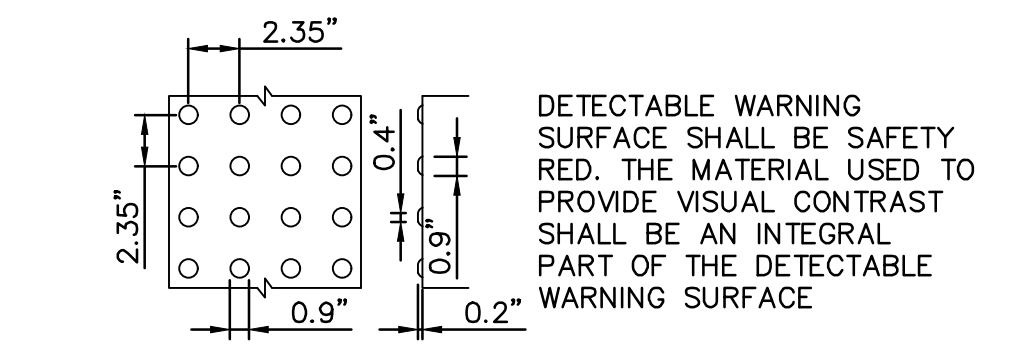
d1 = DESIRABLE SIGHT DISTANCE ALONG THE HIGHWAY TO PERMIT A PASSENGER VEHICLE TO TURN LEFT.
d2 = DESIRABLE SIGHT DISTANCE ALONG THE HIGHWAY TO PERMIT A PASSENGER VEHICLE TO TURN RIGHT OR CROSS.

FOR STOP-CONTROLLED INTERSECTION
POSTED SPEED LIMIT = 50 MPH
DESIGN SPEED LIMIT = 50 MPH

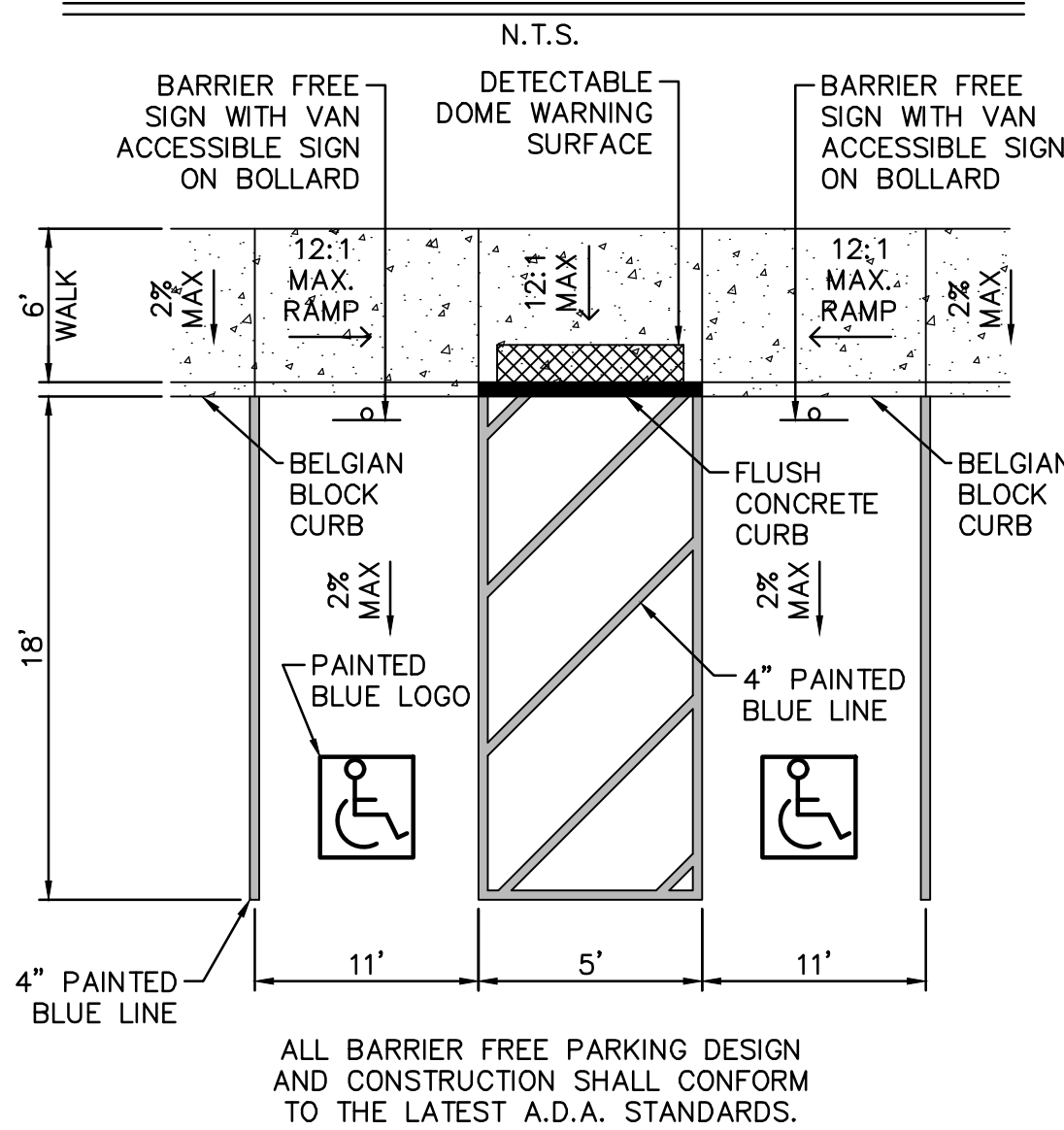
NJDOT (2008) RECOMMENDED ISD:
d1 = 555 FT
d2 = 480 FT



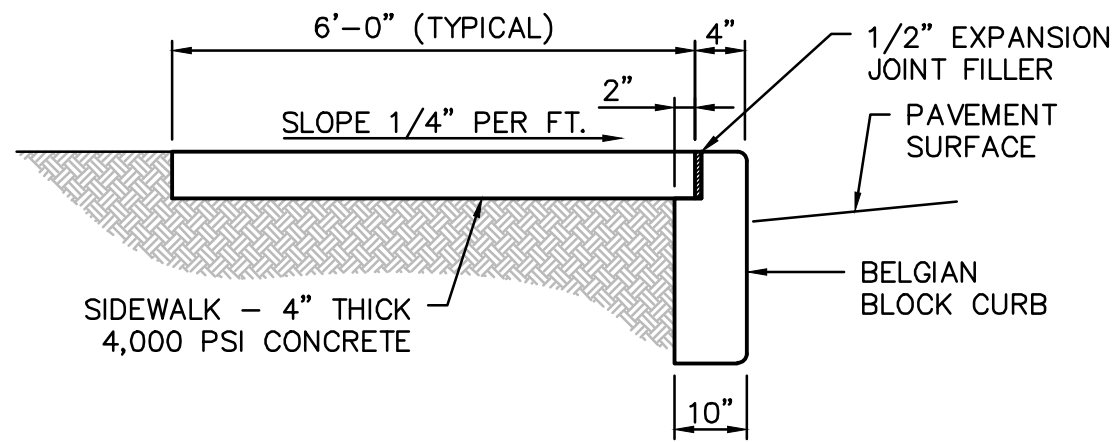
SIGHT DISTANCE FOR STOP CONTROL INTERSECTIONS
N.T.S.



DETECTABLE DOME WARNING SURFACE
N.T.S.



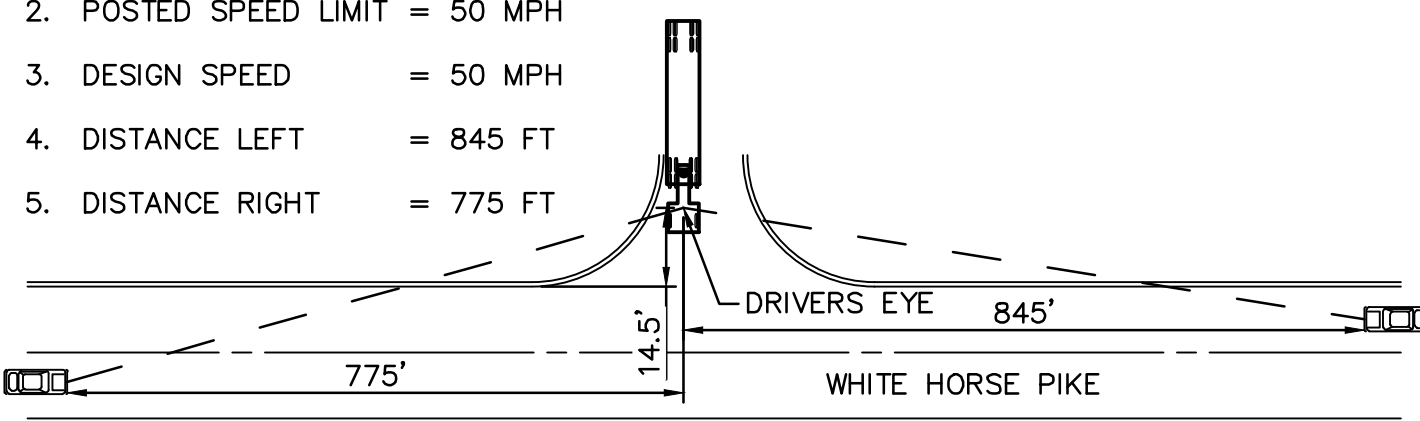
BARRIER FREE PARKING DETAIL
N.T.S.



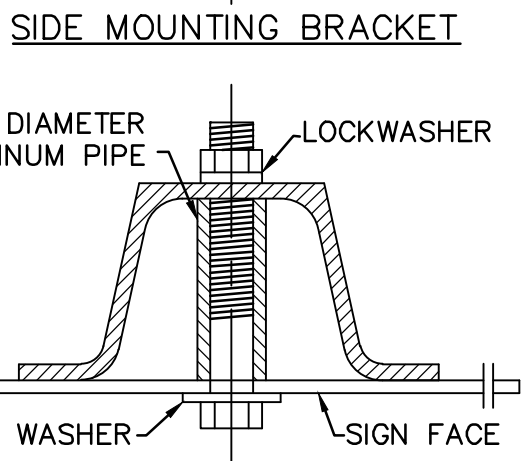
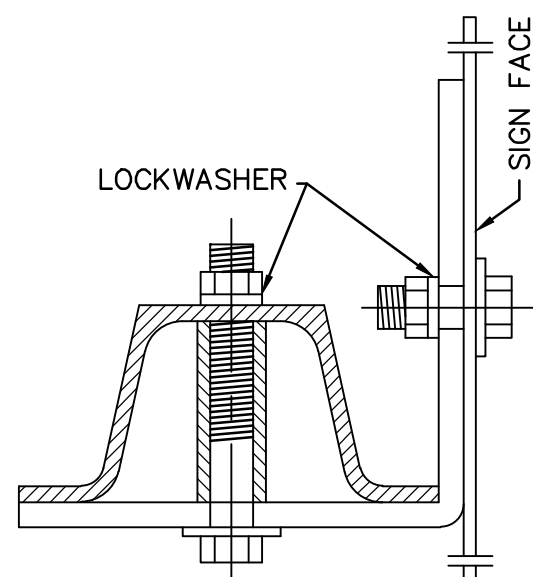
COMBINATION SIDEWALK AND BELGIAN BLOCK CURB DETAIL
N.T.S.

NOTES:

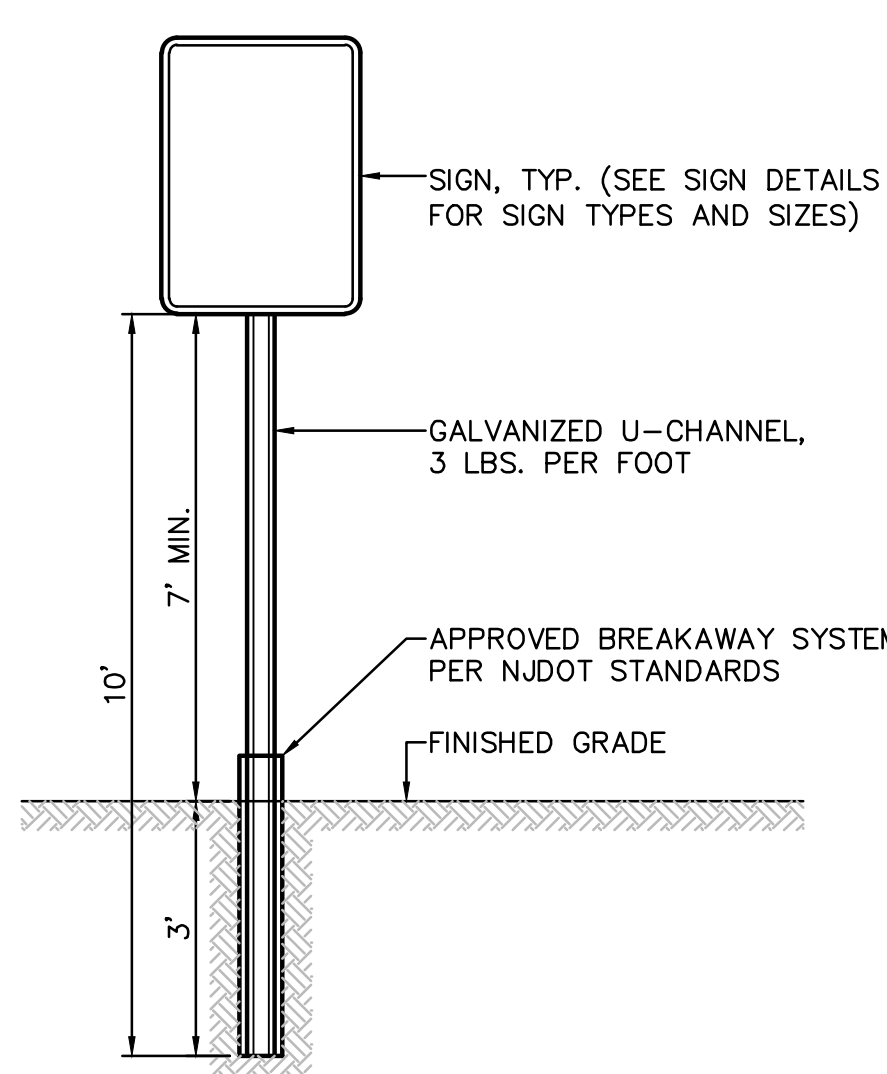
1. BASED ON NJDOT ROADWAY DESIGN INTERSECTION SIGHT DISTANCE; FIGURE 6-A; SAFE SIGHT DISTANCE FOR LEFT TURN AND RIGHT TURN; TWO-LANES - SEMI-TRAILER TRUCKS.
2. POSTED SPEED LIMIT = 50 MPH
3. DESIGN SPEED = 50 MPH
4. DISTANCE LEFT = 845 FT
5. DISTANCE RIGHT = 775 FT



SEMI TRAILER TRUCK SIGHT DISTANCE DETAIL
N.T.S.



FRONT MOUNTING BRACKET
SIGN MOUNTING DETAIL
N.T.S.

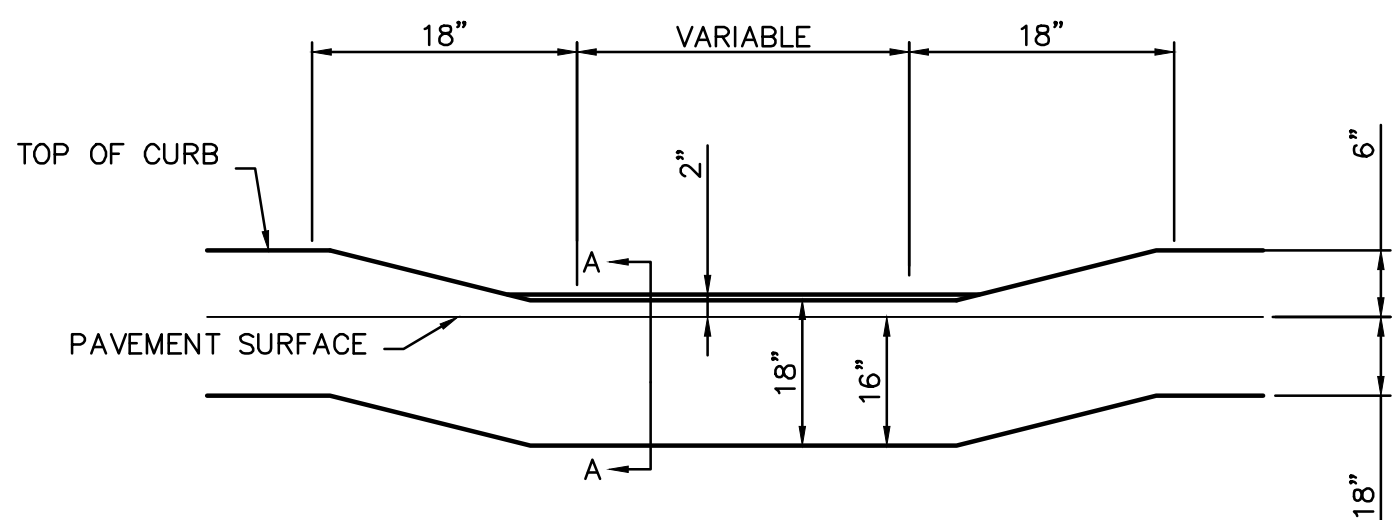


SIGN POLE DETAIL
N.T.S.

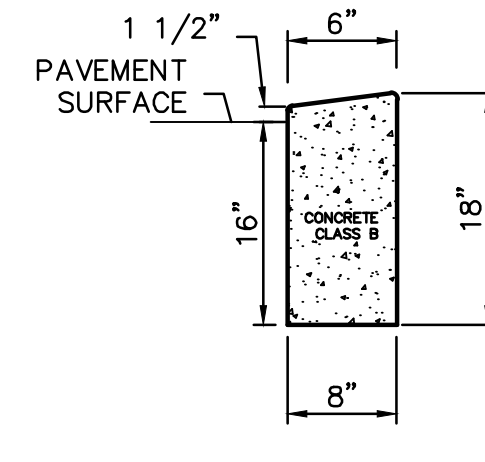


NOTE:
SIGNAGE TO CONFORM WITH THE LATEST EDITION OF STANDARD SIGNS FHA MUTCD. ALL SIGNS SHALL BE MOUNTED ON BREAKAWAY SIGN POSTS.

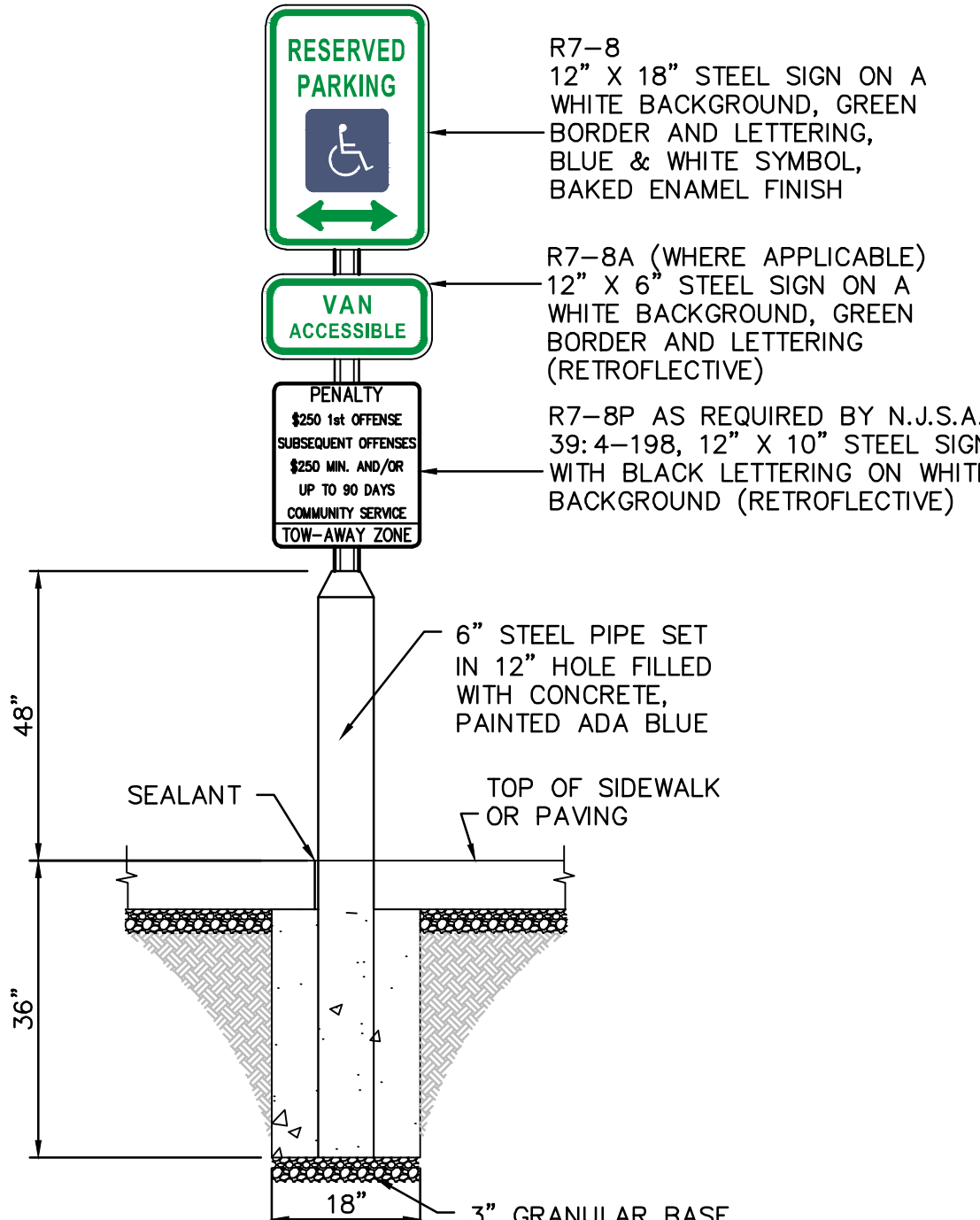
STOP SIGN
N.T.S.



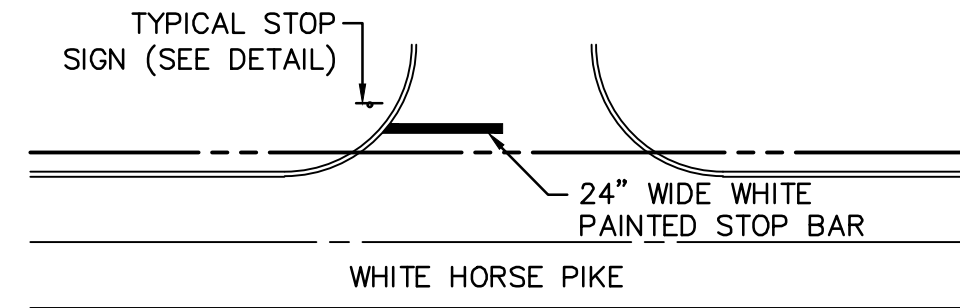
DEPRESSED INTERIOR CURB DETAIL
N.T.S.



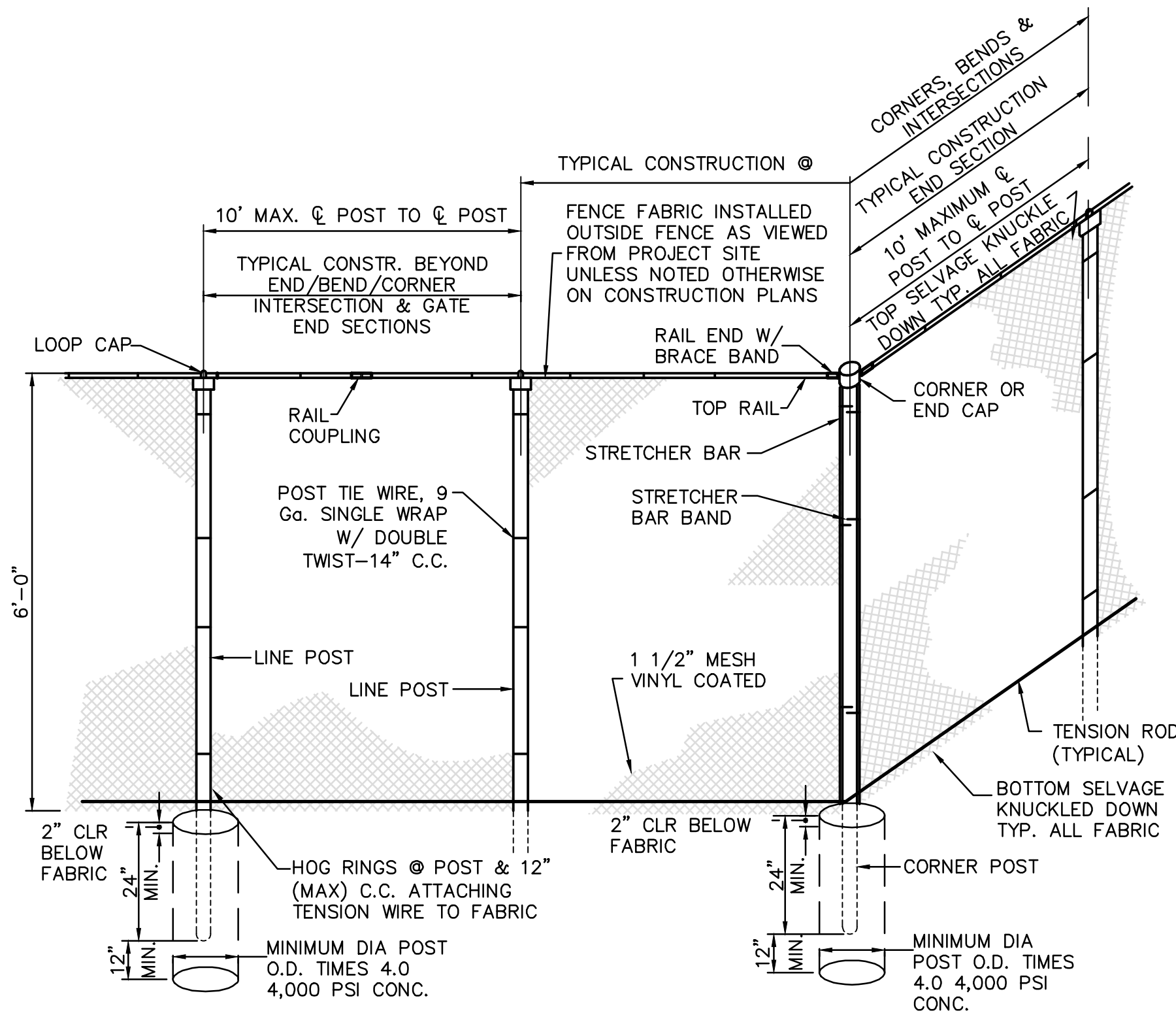
SECTION A-A



BOLLARD w/SIGN
N.T.S.



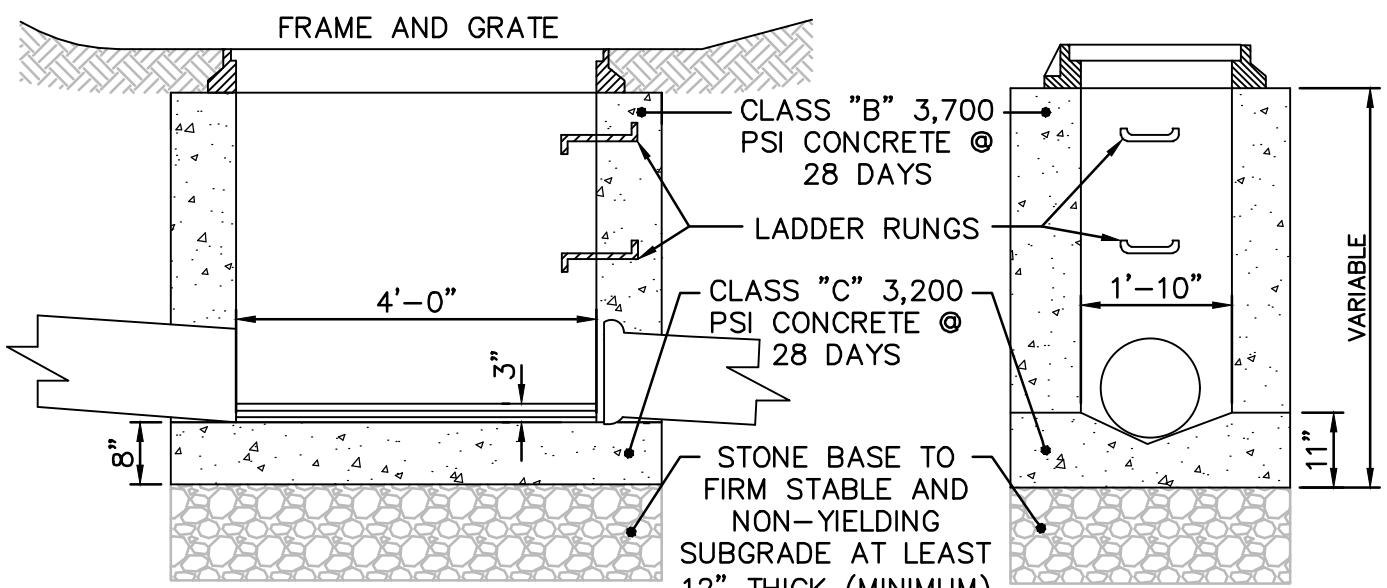
TYPICAL STOP BAR DETAIL
N.T.S.



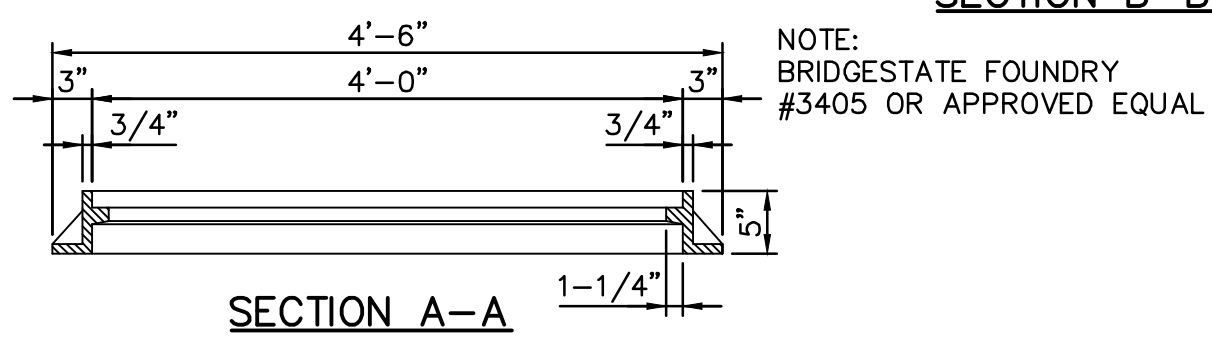
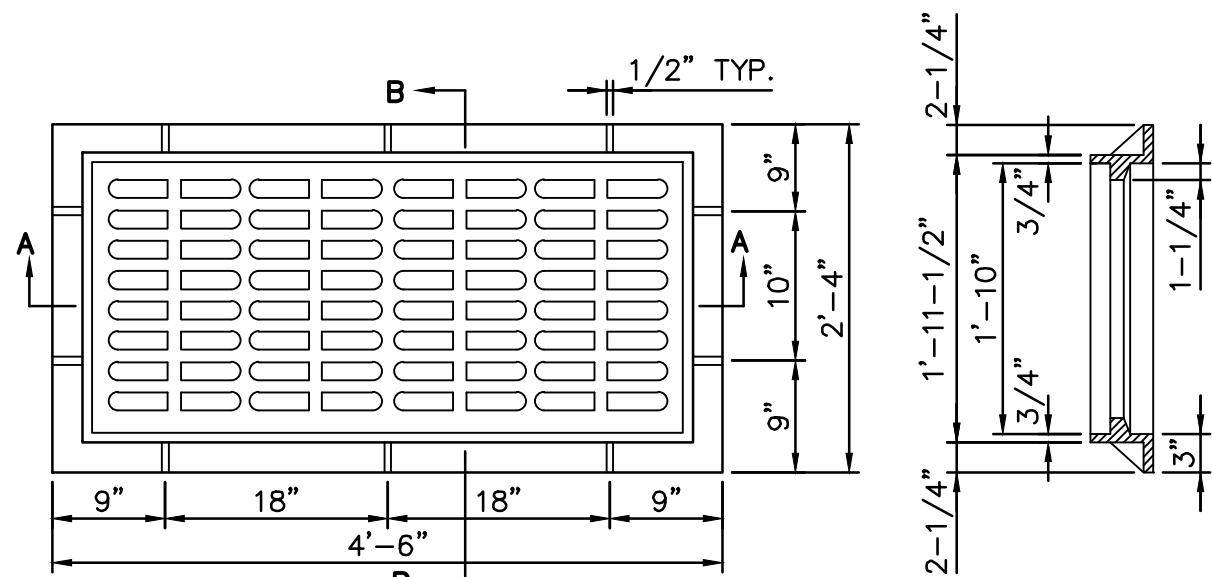
6' HIGH CHAIN LINK FENCE DETAIL
N.T.S.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

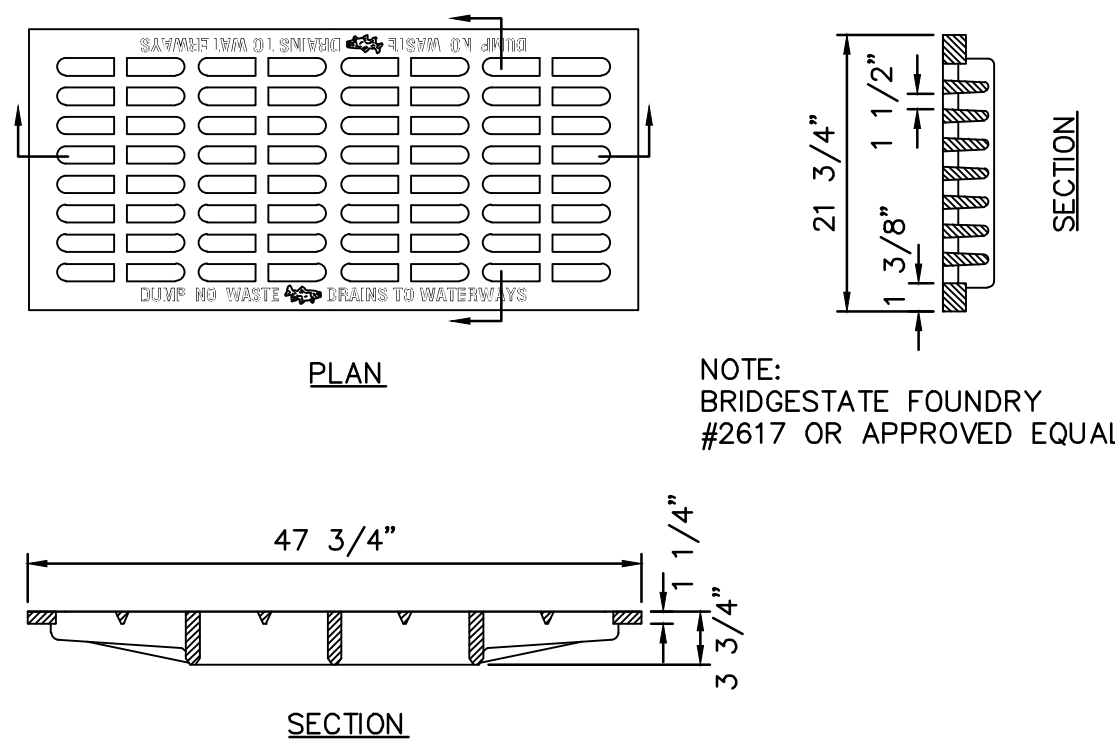
DRAFT	1	INITIAL SUBMISSION	SK	D.J.F.
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULLICA TOWNSHIP SHT 35, RL 3503, LOTS 1 & 2, RL 3504, LOTS 1 & 2, RL 3505, LOT 1, RL 3506, LOT 1, RL 3507, LOTS 1 & 2, RL 3508, LOT 1, RL 3509, LOT 1				
SITE DETAIL SHEET				
BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301				
DAVID J. FLEMING, P.E. REGISTERED PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 246033321600				
DRAFT 09/16/2022 BHT 001.03				
MARATHON Engineering & Environmental Services Swedesboro Office 3 Killdeer Court, Suite 302, Swedesboro, NJ 08085 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700			SCALE AS SHOWN	APPROVED D.J.F. 11 OF 24
			DRAWING NO. C1101	



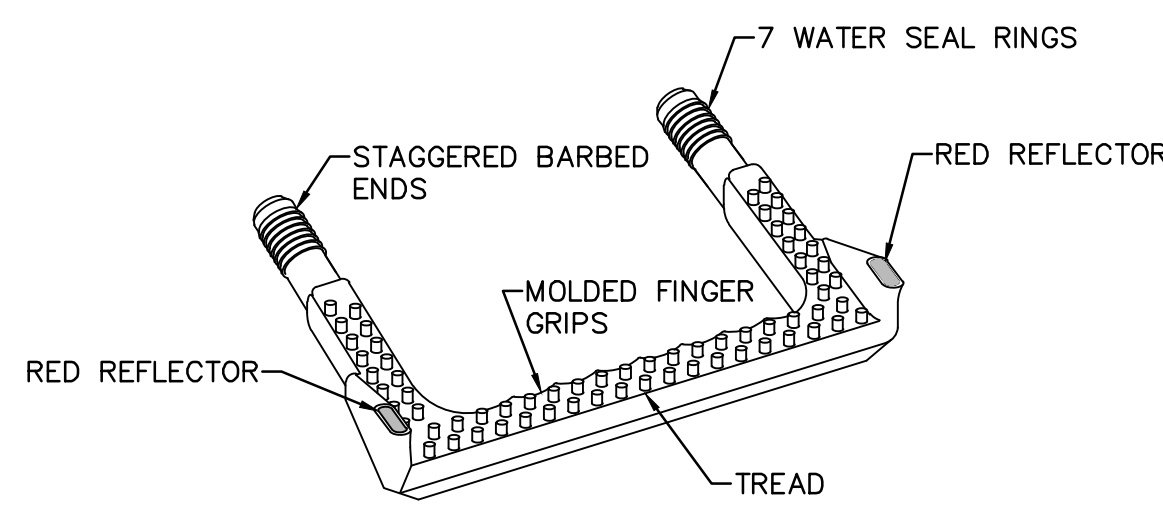
SECTION A-A
TYPE "A" NJDOT INLET DETAIL
N.T.S.



SECTION A-A
TYPE "A" BICYCLE SAFE INLET GRATE DETAIL
N.T.S.

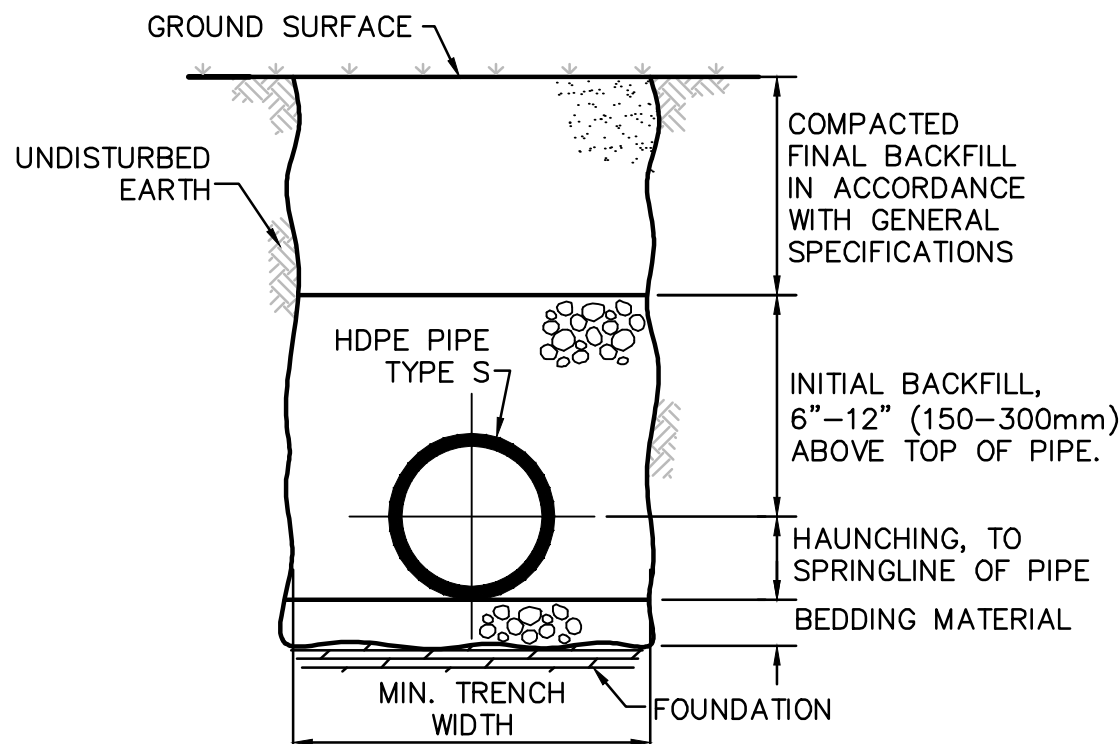


TYPE "A" BICYCLE SAFE 'ECO' GRATE
N.T.S.



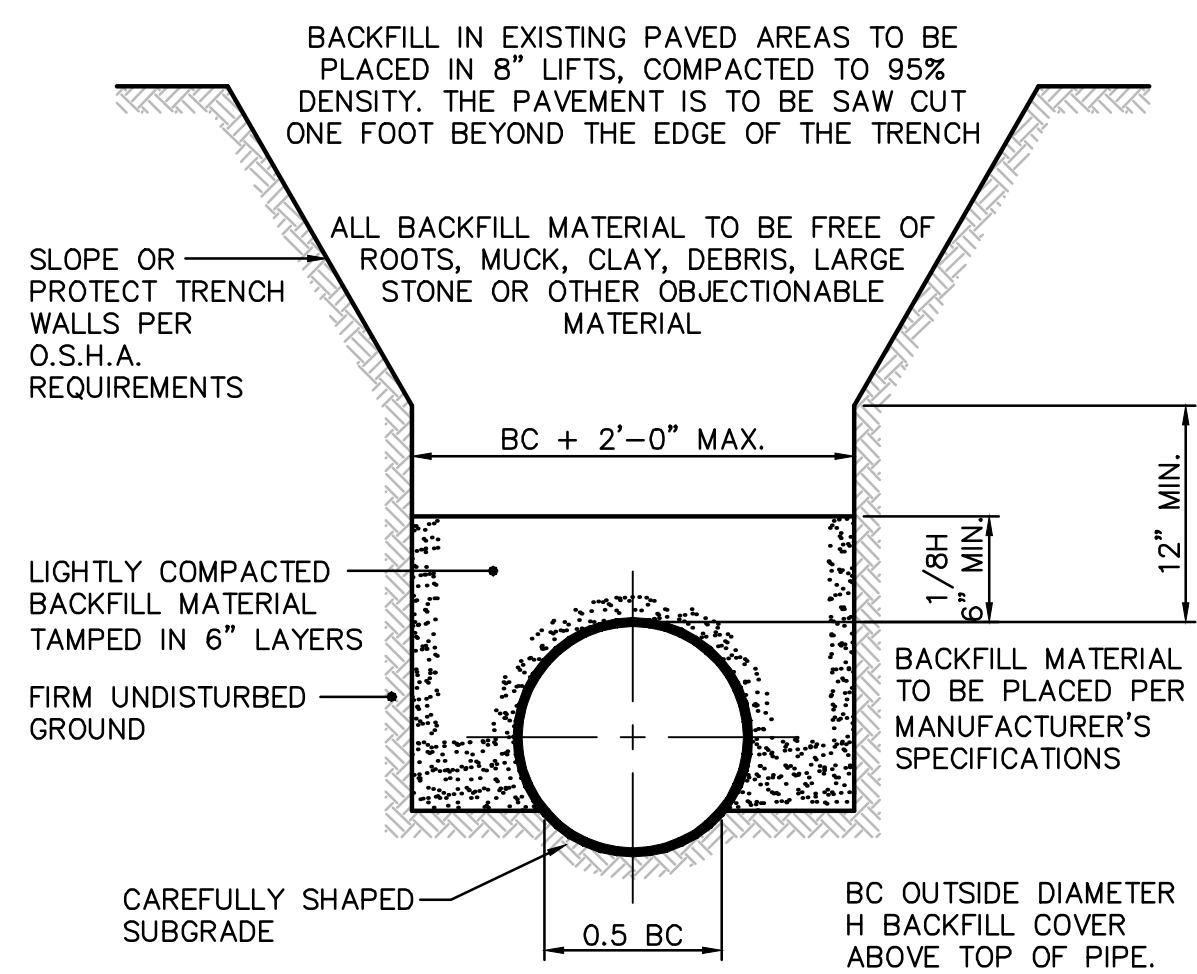
MANHOLE STEP MANUFACTURED BY PARSON ENVIRONMENTAL PRODUCTS, INC. OR APPROVED EQUAL.

POLYPROPYLENE MANHOLE STEP DETAIL
N.T.S.



- NOTES:
1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION; AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
 2. BEDDING: SUITABLE MATERIAL SHALL BE AASHTO SIZE #57, CRUSHED, ANGULAR STONE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100-600MM) AND 42"-48" (1050-1200MM) CORRUGATED POLYETHYLENE PIPE (CPEP); 6" (150MM) FOR 30"-36" (750-900MM) CPEP.

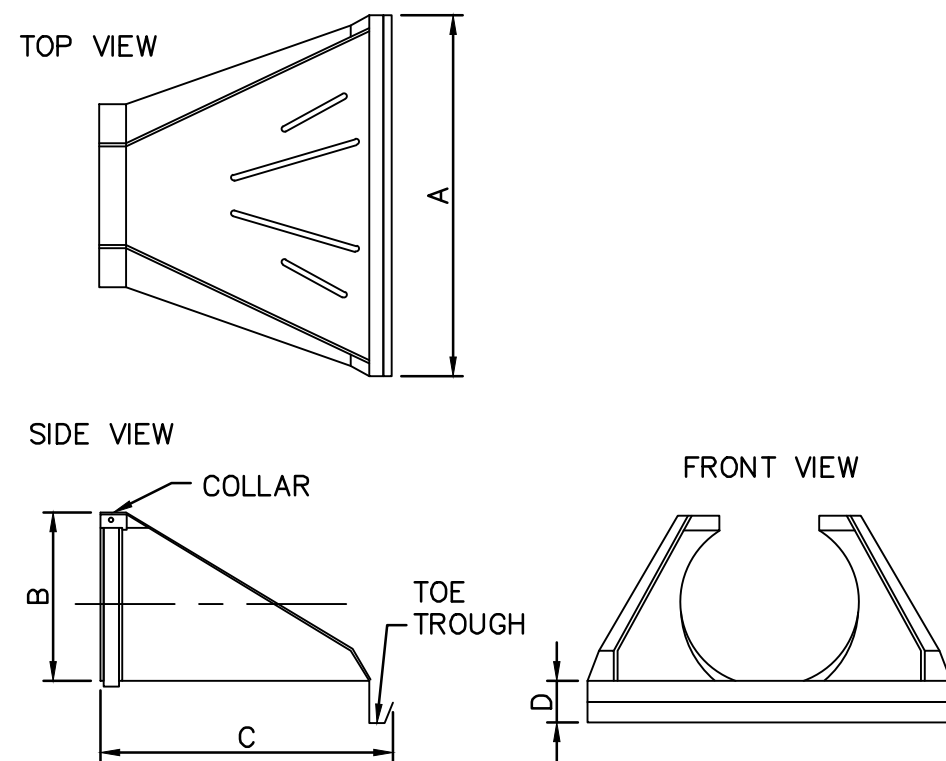
HDPE PIPE TRENCH/BEDDING DETAIL
N.T.S.



NOTES:
ALL TRENCHING OPERATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.

STORM SEWER BEDDING
FOR SUITABLE MATERIAL DETAIL
N.T.S.

PIPE DIAMETER, IN (MM)						
IN	10/12	15	18	24	30	36
DIAMETER (MM)	(250/300)	(375)	(450)	(600)	(750)	(900)
IN	42	41	49	59.5	88	88
A (MM)	(1066)	(1041)	(1244)	(1511)	(2235)	(2235)
IN	14.5	19	22	28	36	43
B (MM)	(368)	(482)	(558)	(711)	(914)	(1092)
IN	33	34	43	48	63.5	66.5
C (MM)	(838)	(863)	(1092)	(1219)	(1612)	(1689)
IN	6	6	6	6	6	6
D (MM)	(152)	(152)	(152)	(152)	(152)	(152)



HDPE FLARED END SECTION DETAIL
N.T.S.

3. HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE AASHTO SIZE #57 CRUSHED, ANGULAR STONE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

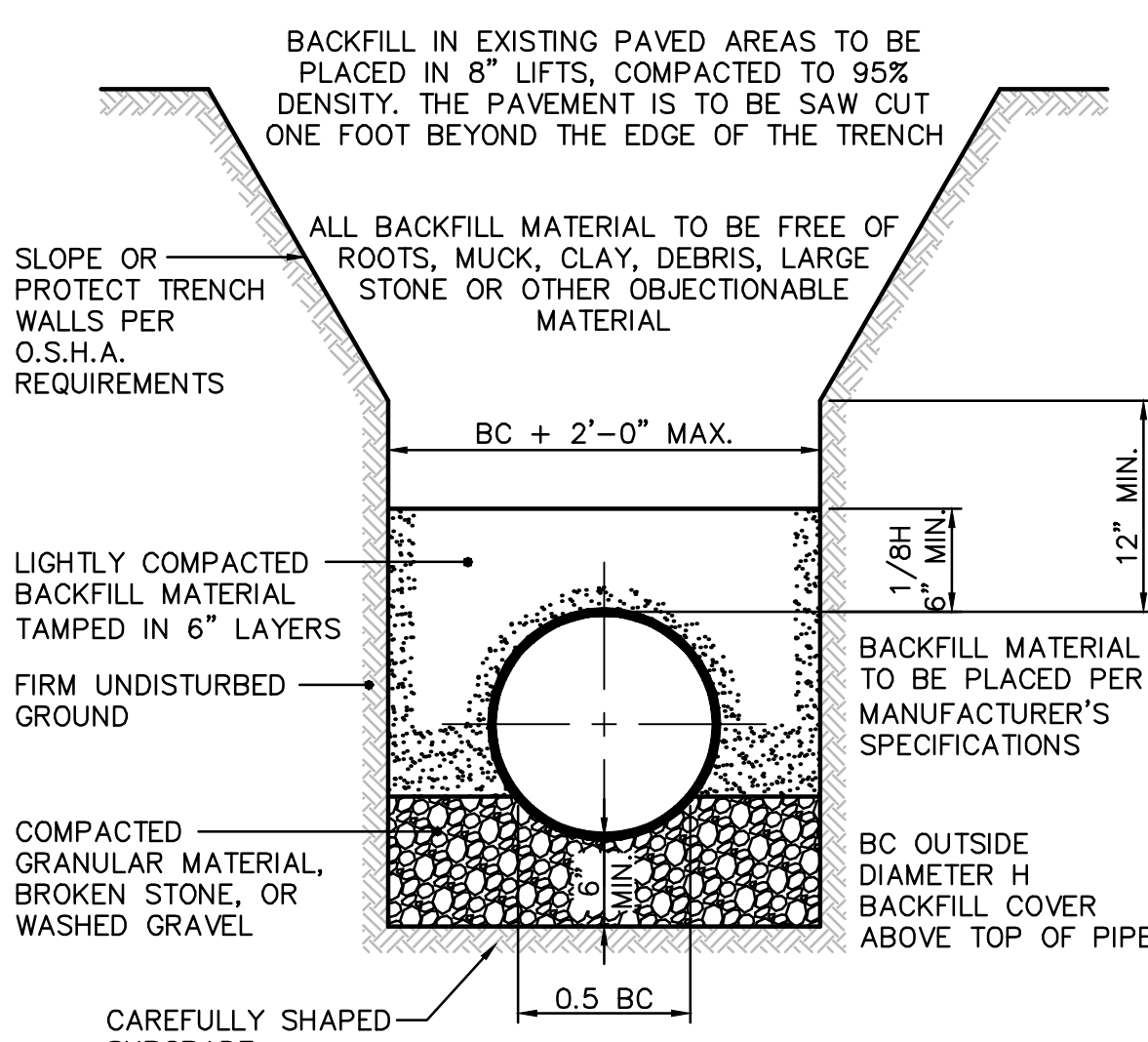
4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:

NOMINAL Ø in (mm)	MIN. RECOMMENDED TRENCH WIDTH, in (mm)
4 (100)	21 (530)
6 (150)	23 (580)
8 (200)	25 (630)
10 (250)	28 (710)
12 (300)	31 (790)
15 (375)	34 (860)
18 (450)	39 (990)
24 (600)	48 (1220)
30 (750)	66 (1680)
36 (900)	78 (1980)
42 (1050)	83 (2110)
48 (1200)	89 (2260)
60 (1500)	102 (2590)

5. MINIMUM COVER: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

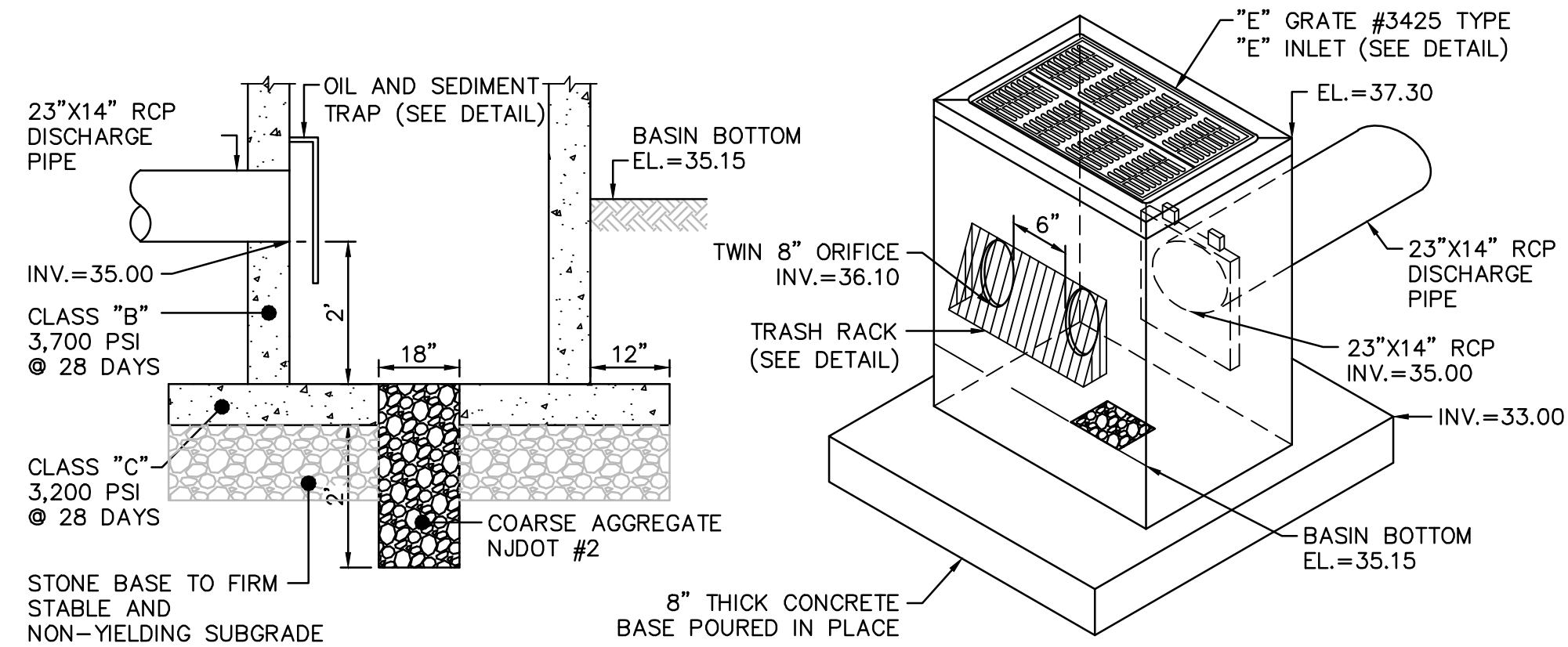
SURFACE LIVE LOADING CONDITION	MINIMUM RECOMMENDED COVER, in (mm)
H25 (FLEXIBLE PAVEMENT)	12 (300)
H25 (RIGID PAVEMENT)	12 (300)
E80 RAILWAY	24 (610)
HEAVY CONSTRUCTION	48 (1220)

*TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT SECTION

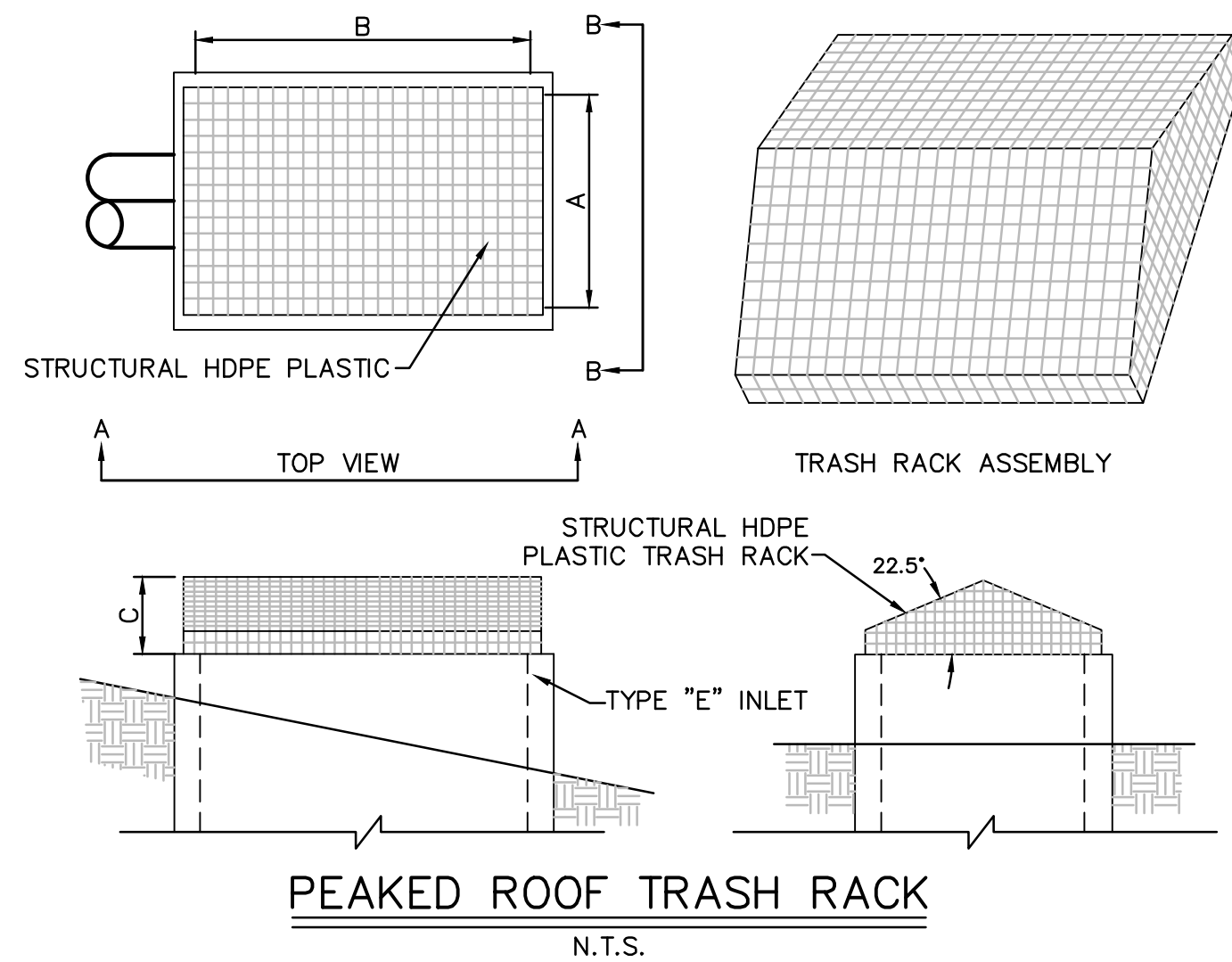


NOTES:
ALL TRENCHING OPERATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.

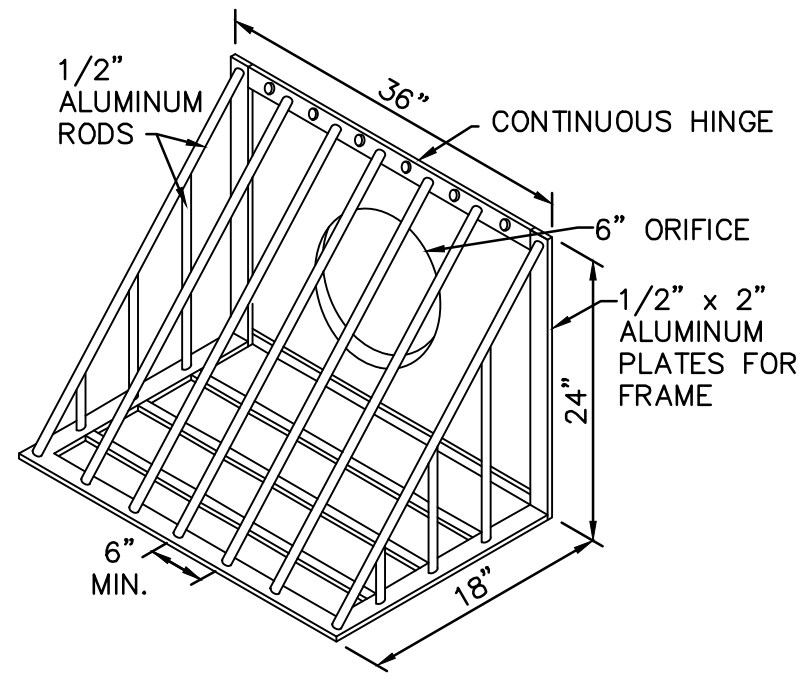
STORM SEWER BEDDING
FOR UNSUITABLE MATERIAL DETAIL
N.T.S.



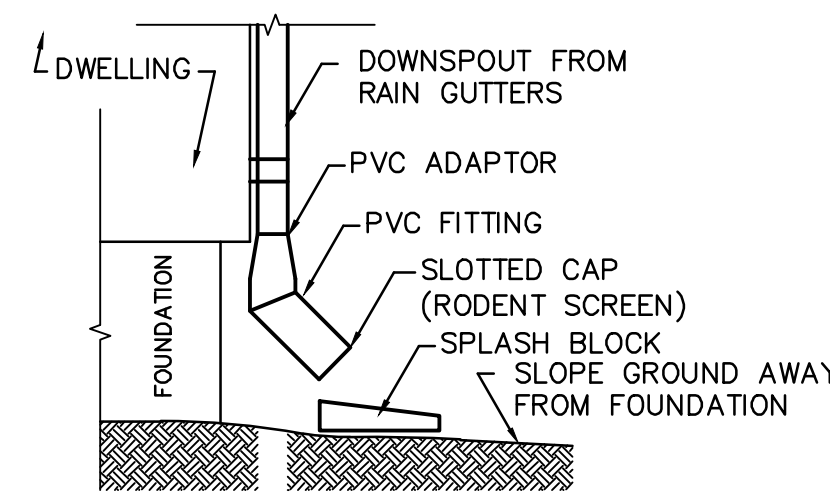
BASIN OUTLET STRUCTURE DETAIL
N.T.S.



PEAKED ROOF TRASH RACK
N.T.S.



TRASH GRATE DETAIL
N.T.S.



THE MAXIMUM ROOF AREA THAT MAY BE CONNECTED TO EACH DOWNSPOUT SHALL BE LIMITED TO 600 SQUARE FEET.

ROOF DRAIN W/
SPLASH BLOCK DETAIL
N.T.S.

DRAFT	1	INITIAL SUBMISSION	SK	D.J.F.
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULICA TOWNSHIP SHT 35, 36, 30A, LOTS 1 & 2, R.L. 3004, LOTS 1 & 2, R.L. 3005, LOT 1, R.L. 3007, LOTS 1 & 2, R.L. 3008, LOT 1, R.L. 3009, LOT 1				
STORM SEWER DETAIL SHEET				
BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301				
DAVID J. FLEMING, P.E. NEW JERSEY LICENSE NO. 246033321600				
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SCALE	AS SHOWN	APPROVED	D.J.F.	
DRAWN BY	SK	SHEET	12 OF 24	
DRAWING NO.	C1102			

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.



SC-740 STORMTECH CHAMBER SPECIFICATIONS

2. CHAMBERS SHALL BE STORED/SHIPPED TO/SC-740.
3. CHAMBERS SHALL BE ARMSTRONG-BUILT AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
4. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2419-18, "STANDARD SPECIFICATION FOR POLYPROPYLENE COPOLYMERS FOR HIGH-IMPACT APPLICATIONS."
5. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPIDE FLOW OR LIMIT ACCESS FOR INSPECTION.
6. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION OF THE CHAMBERS SHALL BE DESIGNED TO WITHSTAND THE DESIGN LOADS TO BE APPLIED TO THE CHAMBERS DESIGN SPECIFICATIONS. SECTION 12.2 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS BASED ON THE ASHSTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT LOADS.
7. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F7797, "STANDARD SPECIFICATION FOR STRUCTURAL DESIGN OF THERMOPLASTIC CHAMBERS FOR USE IN ROAD CONSTRUCTION." THE CHAMBERS SHALL BE DESIGNED TO WITHSTAND AN INSTANTANEOUS (1 MIN) ASHSTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER OF 2 MAXIMUM INSTANTANEOUS (15 TO 20 SECONDS) AND ALLOWABLE COVER WITH PARALLEL (12 INCH, ASHSTO DESIGN TRUCK).
8. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - a. CHAMBERS SHALL BE DESIGNED FOR HANDLING, SHIPPING AND HANDLING CHAMBERS SHALL HAVE INTERNAL, INTERLOCKING STACKING LUGS.
 - b. CHAMBERS SHALL BE DESIGNED TO ALLOW INSTALLATION AND BACKFILL, THE HEIGHT OF THE 6-CHAMBER JOINT SHALL NOT BE LESS THAN 2 IN.
 - c. THE JOINTS OF EACH CHAMBER DURING INSTALLATION AT THE ARCH STRUCTURE SHALL BE CONSTANT AS DEFINED IN SECTION 8.2.1 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LB/SQ INCH AND TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (AVERAGE 70 TO 72 °C). CHAMBERS SHALL BE PRODUCED FROM REFLECTED GOLD OR YELLOW COLORS.
9. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON COMPLETION OF THE DESIGN AND APPROVAL OF THE CHAMBERS MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE INSTALLATION OF CHAMBERS TO THE PROJECT SITE AS:
 - a. THE STRUCTURAL EVALUATION SHALL BE RECEIVED BY A REGISTERED PROFESSIONAL ENGINEER, THE MANUFACTURER SHALL DEMONSTRATE THAT THE ANALYSIS FACTORS ARE GREATER THAN OR EQUAL TO 1.56 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY THE ASHSTO DESIGN SPECIFICATIONS FOR THERMOPLASTIC REPEL.
 - b. THE DESIGN OF EACH CHAMBER SHALL BE SPECIFIED TO ASTM F2418 SHALL BE USED FOR PERMANENT DEAD- AND LOAD DESIGN EXCEPT THAT IT SHALL BE THE 10 YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

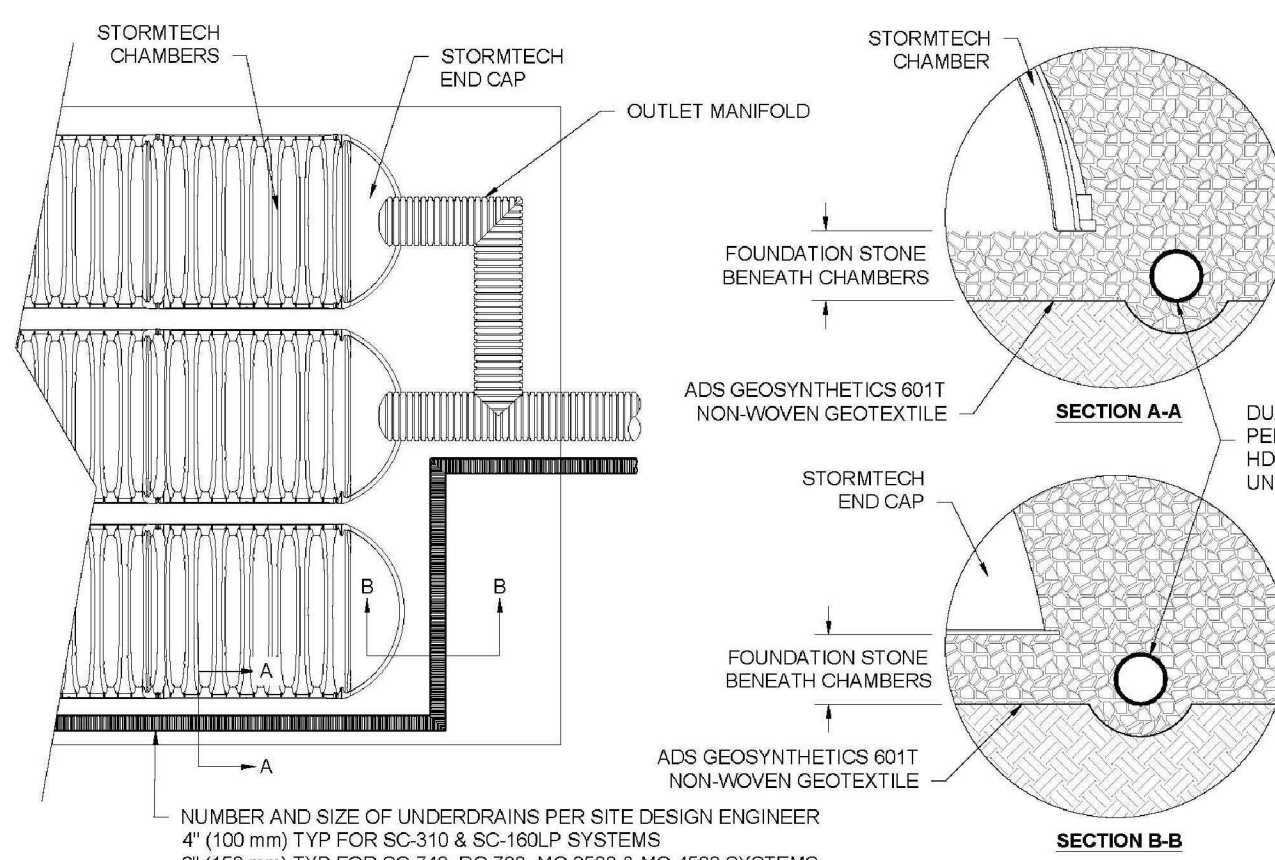
1. STORMTIECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURERS REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTIECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTIECH BENCHING-BASIC TO CONSTRUCTION GUIDE".
3. CHAMBERS ARE REQUIRED TO BE BACKFILLED WITH COARSE OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
4. STORMTIECH RECOMMENDS 3 BACKFILL METHODS:
 - a. STONESTACKED BACKFILL FOR THE TOP OF THE COVER.
 - b. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - c. BACKFILL WITH OUTSIDE SOFT MATERIAL AND A LONG BOOM HOVE OR EXCAVATOR.
5. THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
6. JOISTS BETWEEN CHAMBERS SHALL BE PROPERLY SPACED PRIOR TO PLACING STONE.
7. MAINTAIN MINIMUM .10" (5 mm) SPACING BETWEEN THE CHAMBER ROWS.
8. EMBEMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4"-2" (20-50 mm).
9. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITY TO THE SITE DESIGN ENGINEER.
10. ADS RECOMMENDS THE USE OF "FLXSTARCH CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLET TO PROTECT THE SURFACE/SUBSURFACE STRUTTING MANAGEMENT SYSTEM FROM CONSTRUCTION ON SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

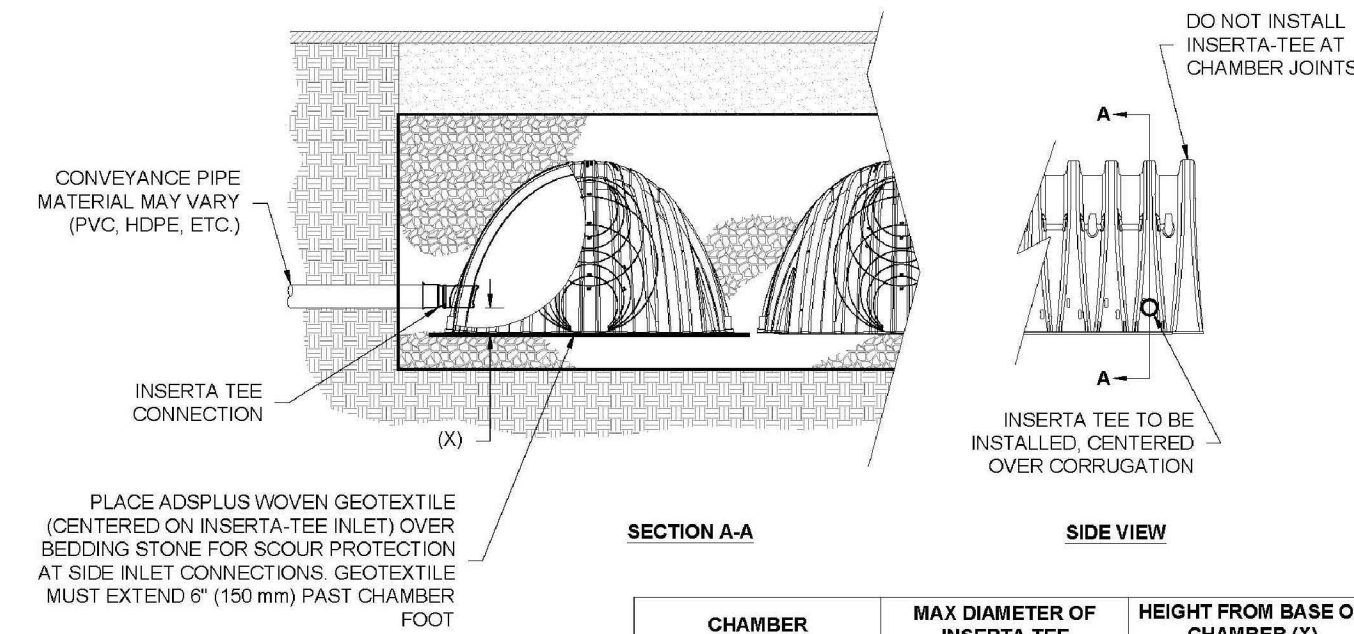
2. STORMTIECH 90-80 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTIECH 30-10SC-740DC-760 CONSTRUCTION GUIDE".
 3. THE USE OF CONSTRUCTION EQUIPMENT OVER 90-80 CHAMBERS IS LIMITED:
 - a) NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - b) IF RUBBER TIRE TRACKS OR LOW GROUND PRESSURE EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTIECH 30-10SC-740DC-760 CONSTRUCTION GUIDE".
 - c) WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTIECH 30-10SC-740DC-760 CONSTRUCTION GUIDE".
 4. FULL 90° (600 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR CLIMBING.
- THE USE OF A DOZER TO PUSH EMBEDEDSTONE BACK BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP TRUCK METHOD" ARE SUBJECT TO CLAIM UNDER THE STORMTIECH STANDARD WARRANTY.
- CONTACT STORMTIECH AT 1-888-566-2584 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



UNDERDRAIN DETAIL



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)

INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SDR 41, SDR 49, SDR 63, SDR 76, SDR 90, SDR 108, SDR 137, SDR 159, SDR 182, SDR 210, SDR 246, SDR 270, SDR 305, SDR 355, SDR 402, SDR 459, SDR 504, SDR 559, SDR 635, SDR 724, SDR 813, SDR 914, SDR 1020, SDR 1130, SDR 1250, SDR 1380, SDR 1520, SDR 1680, SDR 1850, SDR 2040, SDR 2250, SDR 2480, SDR 2730, SDR 3000, SDR 3290, SDR 3600, SDR 3930, SDR 4290, SDR 4680, SDR 5090, SDR 5530, SDR 6000, SDR 6490, SDR 7010, SDR 7570, SDR 8160, SDR 8790, SDR 9460, SDR 10180, SDR 10950, SDR 11770, SDR 12640, SDR 13570, SDR 14560, SDR 15610, SDR 16730, SDR 17910, SDR 19160, SDR 20480, SDR 21870, SDR 23330, SDR 24860, SDR 26470, SDR 28160, SDR 29930, SDR 31780, SDR 33710, SDR 35730, SDR 37840, SDR 39950, SDR 42170, SDR 44500, SDR 46950, SDR 49520, SDR 52210, SDR 55030, SDR 57980, SDR 61070, SDR 64300, SDR 67680, SDR 71210, SDR 74890, SDR 78730, SDR 82740, SDR 86920, SDR 91280, SDR 95820, SDR 100550, SDR 105480, SDR 110620, SDR 115970, SDR 121540, SDR 127340, SDR 133370, SDR 139630, SDR 146130, SDR 152870, SDR 159860, SDR 167110, SDR 174630, SDR 182430, SDR 190510, SDR 198880, SDR 207550, SDR 216530, SDR 225820, SDR 235430, SDR 245370, SDR 255650, SDR 266280, SDR 277260, SDR 288600, SDR 299300, SDR 310350, SDR 321760, SDR 333530, SDR 345680, SDR 358210, SDR 371130, SDR 384450, SDR 398180, SDR 412330, SDR 426900, SDR 441900, SDR 457340, SDR 473230, SDR 489580, SDR 506400, SDR 523690, SDR 541470, SDR 559750, SDR 578540, SDR 597850, SDR 617690, SDR 638070, SDR 659000, SDR 680500, SDR 702580, SDR 725250, SDR 748520, SDR 772400, SDR 796900, SDR 822040, SDR 847840, SDR 874310, SDR 901470, SDR 929340, SDR 957940, SDR 987290, SDR 1017400, SDR 1048300, SDR 1079900, SDR 1112300, SDR 1145500, SDR 1179600, SDR 1214600, SDR 1250500, SDR 1287400, SDR 1325300, SDR 1364300, SDR 1404400, SDR 1445600, SDR 1487900, SDR 1531400, SDR 1576100, SDR 1622000, SDR 1669100, SDR 1717500, SDR 1767200, SDR 1818200, SDR 1870500, SDR 1924100, SDR 1979000, SDR 2035200, SDR 2092700, SDR 2151600, SDR 2211900, SDR 2273600, SDR 2336700, SDR 2401300, SDR 2467400, SDR 2535100, SDR 2604500, SDR 2675700, SDR 2748700, SDR 2823500, SDR 2900200, SDR 2978800, SDR 3059300, SDR 3141800, SDR 3226300, SDR 3312900, SDR 3401600, SDR 3492500, SDR 3585700, SDR 3681200, SDR 3779000, SDR 3879200, SDR 3981800, SDR 4086800, SDR 4194300, SDR 4304300, SDR 4416900, SDR 4532200, SDR 4650300, SDR 4771200, SDR 4895000, SDR 5021800, SDR 5151700, SDR 5284800, SDR 5421200, SDR 5560900, SDR 5704000, SDR 5850600, SDR 5999800, SDR 6152700, SDR 6309400, SDR 6469900, SDR 6634300, SDR 6802700, SDR 6974200, SDR 7148900, SDR 7326900, SDR 7508300, SDR 7693300, SDR 7881900, SDR 8074300, SDR 8270600, SDR 8470900, SDR 8675300, SDR 8883900, SDR 9096800, SDR 9314000, SDR 9535600, SDR 9761700, SDR 9992400, SDR 10227800, SDR 10468000, SDR 10714000, SDR 10966000, SDR 11224000, SDR 11488000, SDR 11759000, SDR 12037000, SDR 12322000, SDR 12614000, SDR 12914000, SDR 13221000, SDR 13536000, SDR 13859000, SDR 14190000, SDR 14529000, SDR 14876000, SDR 15231000, SDR 15594000, SDR 15966000, SDR 16347000, SDR 16737000, SDR 17136000, SDR 17544000, SDR 17961000, SDR 18388000, SDR 18825000, SDR 19272000, SDR 19729000, SDR 20197000, SDR 20676000, SDR 21166000, SDR 21668000, SDR 22182000, SDR 22709000, SDR 23249000, SDR 23802000, SDR 24368000, SDR 24948000, SDR 25542000, SDR 26150000, SDR 26772000, SDR 27408000, SDR 28059000, SDR 28725000, SDR 29407000, SDR 30105000, SDR 30819000, SDR 31550000, SDR 32300000, SDR 33068000, SDR 33855000, SDR 34661000, SDR 35487000, SDR 36333000, SDR 37200000, SDR 38089000, SDR 38999000, SDR 39932000, SDR 40889000, SDR 41869000, SDR 42873000, SDR 43903000, SDR 44959000, SDR 46043000, SDR 47156000, SDR 48299000, SDR 49473000, SDR 50678000, SDR 51905000, SDR 53156000, SDR 54432000, SDR 55734000, SDR 57063000, SDR 58420000, SDR 59806000, SDR 61222000, SDR 62669000, SDR 64148000, SDR 65660000, SDR 67206000, SDR 68787000, SDR 70404000, SDR 72058000, SDR 73750000, SDR 75482000, SDR 77255000, SDR 79069000, SDR 80925000, SDR 82814000, SDR 84738000, SDR 86698000, SDR 88695000, SDR 90730000, SDR 92794000, SDR 94889000, SDR 96916000, SDR 98976000, SDR 101070000, SDR 103208000, SDR 105391000, SDR 107620000, SDR 109896000, SDR 112220000, SDR 114593000, SDR 117017000, SDR 119493000, SDR 122022000, SDR 124606000, SDR 127247000, SDR 130047000, SDR 132908000, SDR 135831000, SDR 138818000, SDR 141870000, SDR 144989000, SDR 148177000, SDR 151436000, SDR 154768000, SDR 158175000, SDR 161659000, SDR 165222000, SDR 168866000, SDR 172593000, SDR

NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS.
CONTACT STORMTECH FOR MORE INFORMATION.

INSERTA-TEE SIDE INLET DETAIL

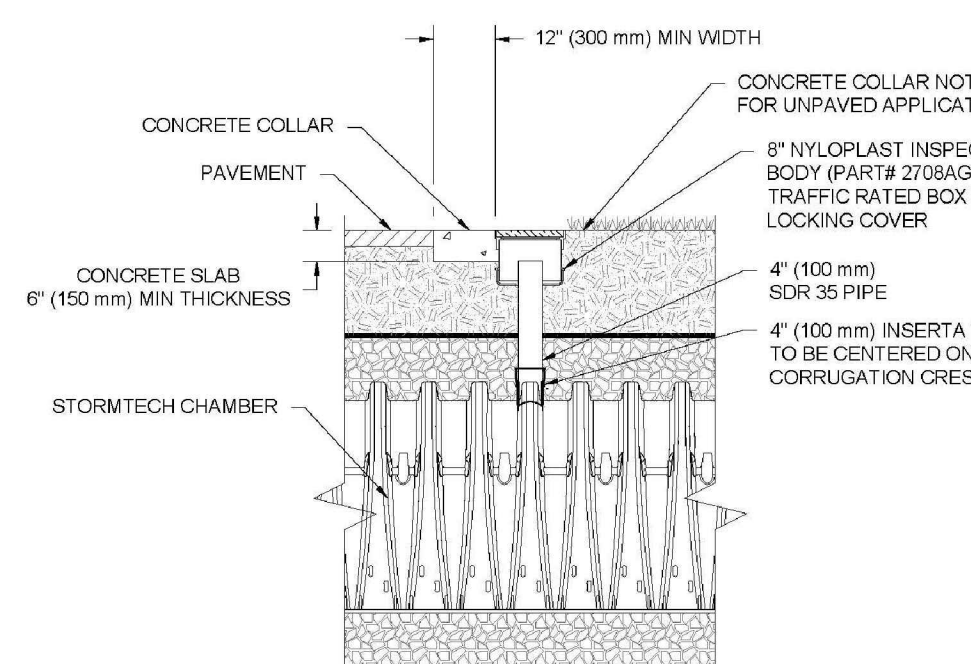
SC-740 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	ASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 1 STARTS FROM THE TOP OF THE FILL MATERIAL TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE C LAYER.	ANY SLOOTK MATERIALS, NATIVE SOILS, OR PER ENGINEERS PLANS CHECK PLANS FOR PAVEMENT SUBBASE REQUIREMENTS	NA	PREPARE PER SITE DESIGN ENGINEERS PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 1 STARTS FROM THE TOP OF THE EMBEDEDMENT STONE (B LAYER) TO (400 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE C LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <3% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	ASHTO M 407 A1, A2, A3 OR ASHTO M 303 3, 357, 4, 497, 5, 56, 57, 6, 67, 68, 7, 76, 8, 89, 9, 10	BEGIN COMPACTORS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ON TOP OF ALL LAYERS TO MINIMUM MAX 1" TO 1.5 IN. MAX 65% PROCTOR DENSITY. WELL-GRADED MATERIAL AND 96% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIAL. ROLLER GRADES FOR VEHICLES WEIGHT NOT TO EXCEED 12,000 LB (5.5 MN). DYNAMIC FORCE NOT TO EXCEED 20,000 LB (9.1 MN).
	EMBEDDED STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYERS) TO THE C LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	ASHTO M 303 3, 357, 4, 497, 5, 56, 57	NO COMPACTATION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER STONE.	CLEAN, CRUSHED, ANGULAR STONE	ASHTO M 303 3, 357, 4, 497, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ²³

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SC-740 ISOLATOR ROW PLUS DETAIL



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

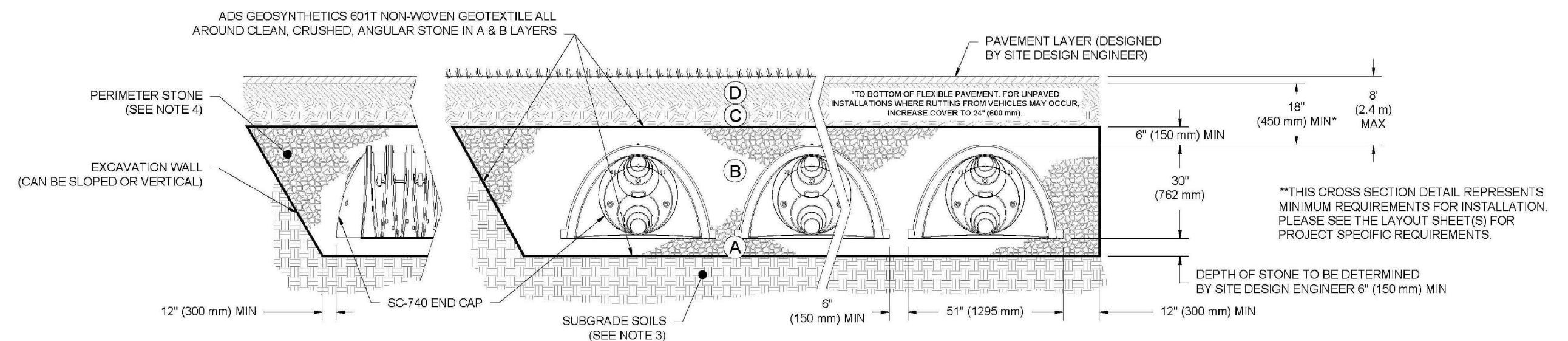
INSPECTION & MAINTENANCE

- | | |
|--------|---|
| STEP 1 | INSPECT ISOLATOR ROW PLUS FOR SEDIMENT |
| | <ul style="list-style-type: none"> a. INSPECTION PORTS (IF PRESENT) b. REMOVE/OPEN LID ON UPSTREAM INLINE DRAIN c. REMOVE AND CLEAN FLEXFORM FILTER IF INSTALLED d. REMOVE A FLASHLIGHT OR VIDEO LIGHT FROM DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG e. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL) f. IF SEDIMENT IS AT OR ABOVE 2" IN PROCEED TO STEP 2 IF NOT, PROCEED TO STEP 3. |
| | <ul style="list-style-type: none"> 1. ALL ISOLATOR ROW PLUS ROWS a. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS b. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH CUTLETT PIPE c. REMOVED OR POLY SPAGS ON POLY SPAGS d. FOLLOWUP ISOLATOR REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE e. SEDIMENT IS AT OR ABOVE 2" IN PROCEED TO STEP 2 IF NOT, PROCEED TO STEP 3. |
| STEP 2 | CLEAN OUT ISOLATOR ROW PLUS USING THE TYPICAL PROCEDURE |
| | <ul style="list-style-type: none"> a. VACUUM CUPPING/ CLEANING NOZZLE WITH BACK REAP SPACING OF 49" (11" OR MORE) IS PREFERRED b. IF BACKLASH PASSING OF 49" IS NOT POSSIBLE, BACKLASH SPACING IS CLEAN c. A FLEXIBLE STRUCTURE SPAG WAS REQUIRED |
| STEP 3 | REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS. |
| STEP 4 | INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTOWN SYSTEM |

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

4" PVC INSPECTION PORT DETAIL
(SC SERIES CHAMBER)



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-15a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL, STORMWATER COLLECTION CHAMBERS".
- 2.30.74 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION SETTING FOR THE DESIGN OF THE RANGE OF EXPECTED SOIL MOISTURE CONTENT.
- PERMITTER STATE SHALL BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION
- TO MAINTAIN THE INTEGRITY OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPED DURING INSTALLATION, THE ARCH STIFFNESS COEFFICIENT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO YELLOW CORNERS.
- TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73 °F / 23 °C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SC-740 CROSS SECTION DETAIL

SC-740 STANDARD DETAILS

StormTech®
Construction Technology Water Quality
3 INWOOD ROAD, SUITE 3 | ROCKY HILL, CT | 06067
800-820-0190 | 860-852-0634 | WWW.STORMTECH.COM



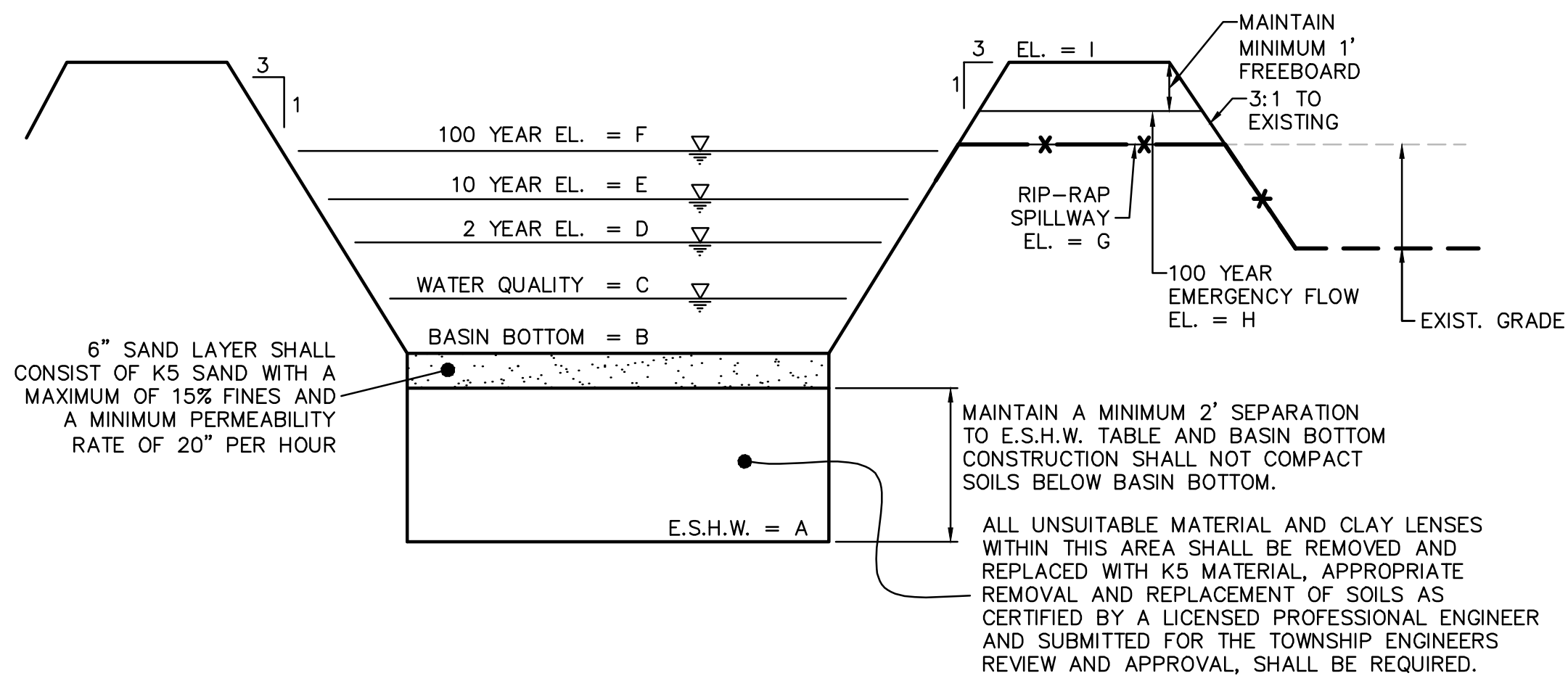
4640 TRUEMAN BLVD
HILLIARD, OH 43026

SHEET

[illegible]

CREATED ON 06/16/2022, LAST MODIFIED ON 06/16/2022

06/16/2022 - MARATHON - BHT MULICA TOWNSHIP STORM SEWER DETAIL SHEET



BASIN #	A	B	C	D	E	F	G	H	I
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---

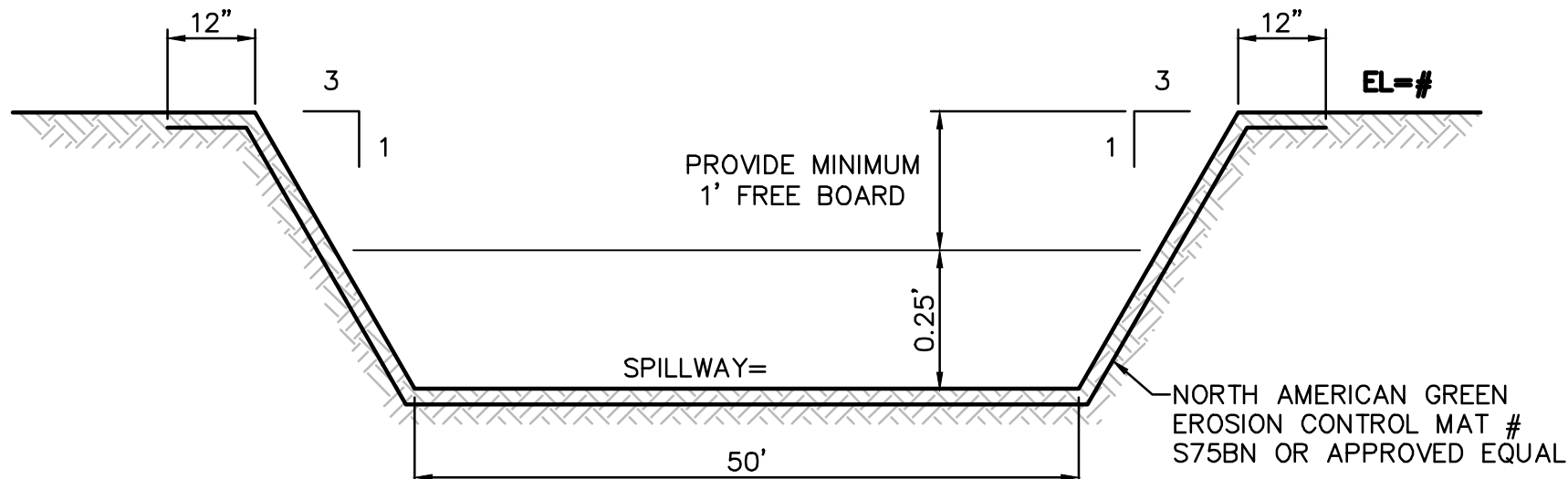
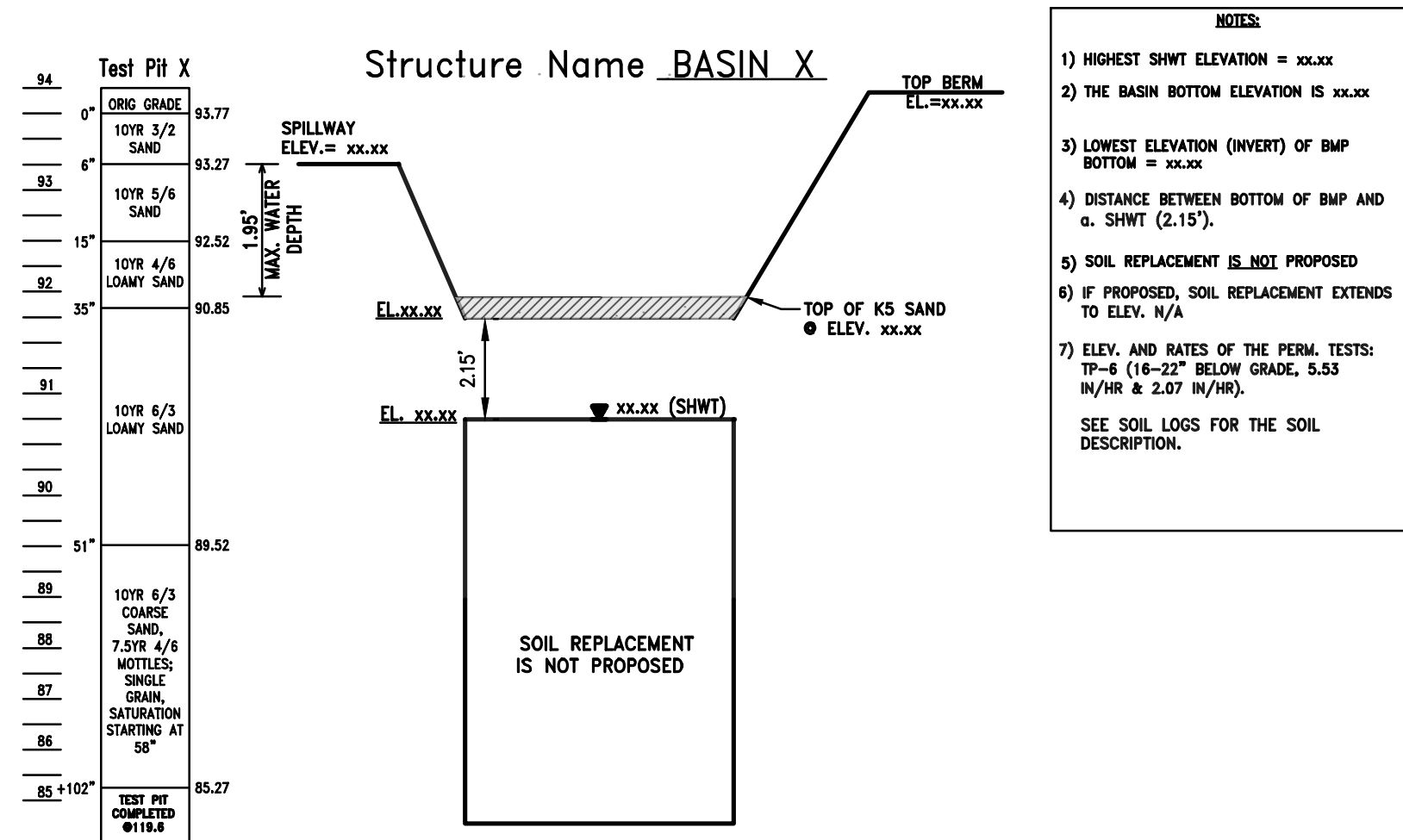
BASIN NOTES:

- PRIOR TO THE BASINS CONSTRUCTION THE AREA RESERVED FOR BASIN CONSTRUCTION SHALL BE CORDONED OFF TO PREVENT CONSTRUCTION EQUIPMENT AND STOCKPILED MATERIALS FROM COMPACTING THE SUBGRADE SOILS.
- DURING THE BASIN CONSTRUCTION, PRECAUTIONS SHOULD BE TAKEN TO PREVENT BOTH SUBGRADE SOIL COMPACTATION AND SEDIMENT CONTAMINATION.
- ALL EXCAVATION SHOULD BE PERFORMED WITH THE LIGHTEST PRACTICAL EXCAVATION EQUIPMENT.
- ALL EXCAVATION EQUIPMENT SHOULD BE PLACED OUTSIDE THE LIMITS OF THE BASIN.
- TO PREVENT SUBGRADE SOIL CONTAMINATION AND CLOGGING BY SEDIMENT, FINAL BASIN CONSTRUCTION STABILIZATION SHOULD BE DELAYED UNTIL ALL OTHER CONSTRUCTION WITHIN THE DRAINAGE AREA IS COMPLETED AND THE DRAINAGE AREA STABILIZED. IF THE BASIN CONSTRUCTION CANNOT BE DELAYED UNTIL ITS DRAINAGE AREA IS STABILIZED, DIVERSION BERMS, SILT FENCES, OR OTHER SUITABLE MEASURES SHOULD BE PLACED AROUND THE BASIN PERIMETER DURING ALL PHASES OF CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING THE BASIN.
- ONCE THE FINAL GRADING PHASE OF AN INFILTRATION BASIN IS REACHED THE BOTTOM OF THE BASIN SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW AND THEN SMOOTHED OUT WITH A LEVELING DRAG OR EQUIVALENT GRADING EQUIPMENT. PROCEDURES SHOULD BE PERFORMED WITH EQUIPMENT LOCATED OUTSIDE THE BASIN BOTTOM. IF THIS IS NOT POSSIBLE, IT SHOULD BE PERFORMED WITH LIGHT WEIGHT, RUBBER Tired EQUIPMENT.

TYPICAL BASIN SECTION DETAIL

N.T.S.

NJ PINELANDS STORMWATER BMP-SOIL PROFILE CROSS-SECTION

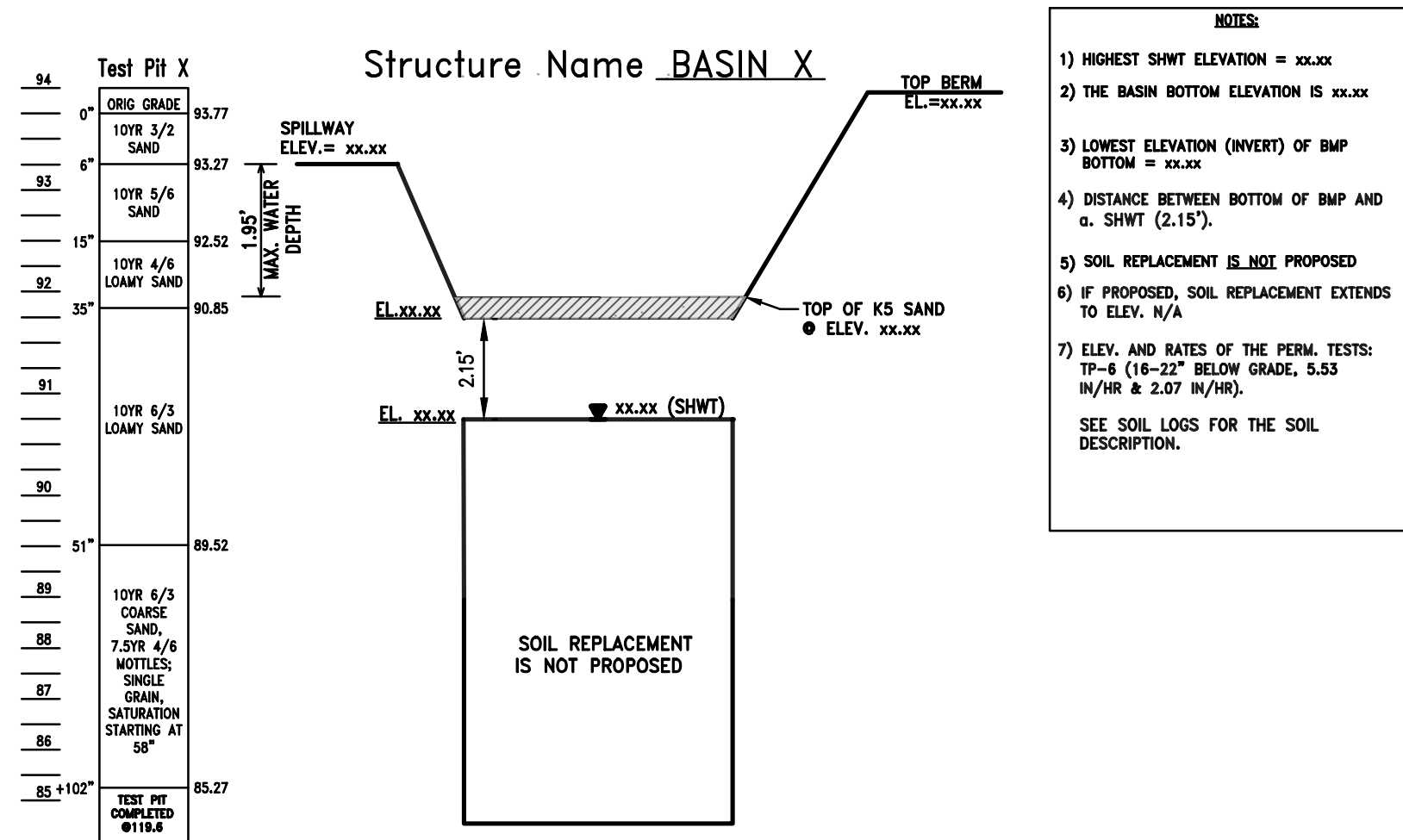


NOTE: SPILLWAY TO BE GRASS LINED

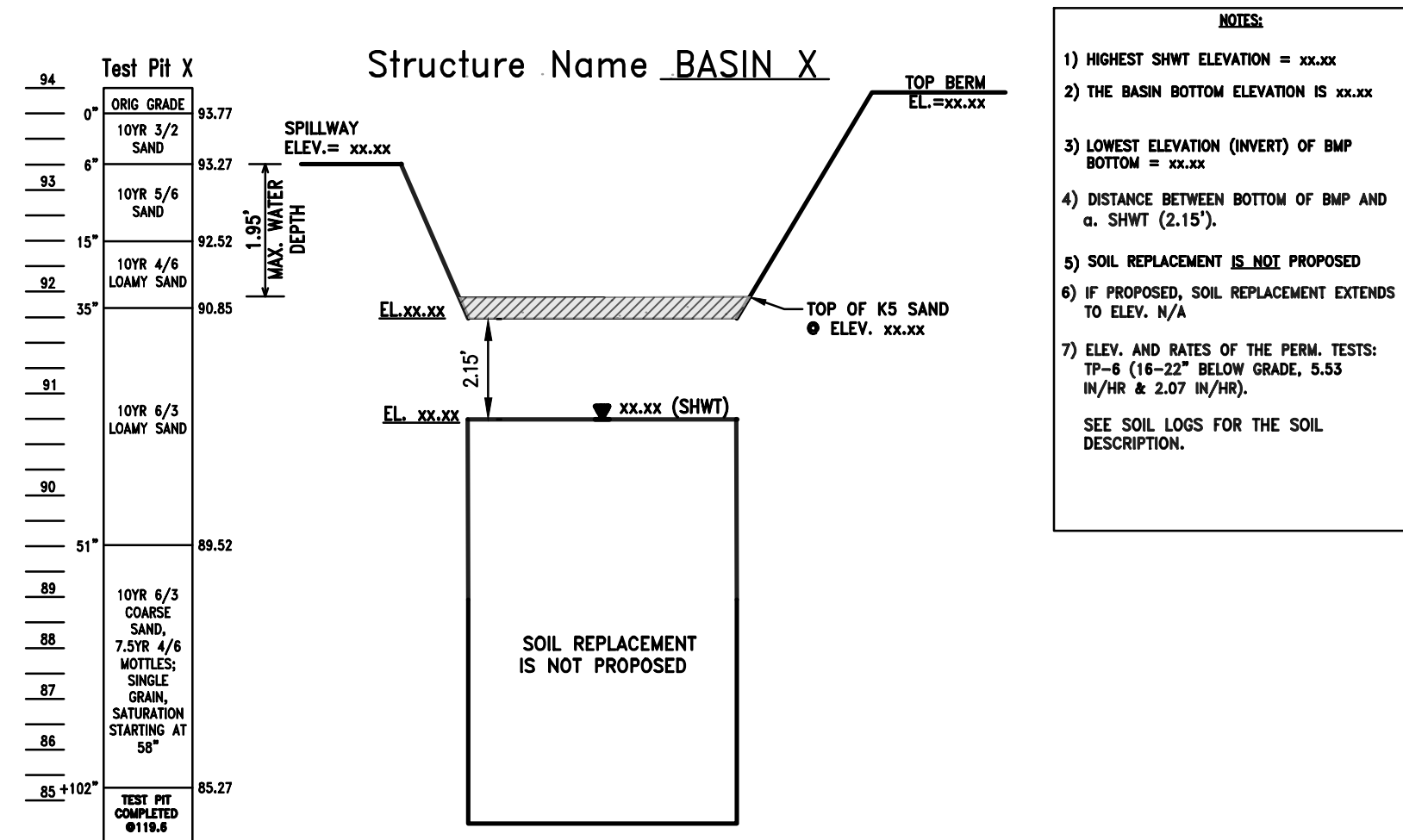
SPILLWAY DETAIL

N.T.S.

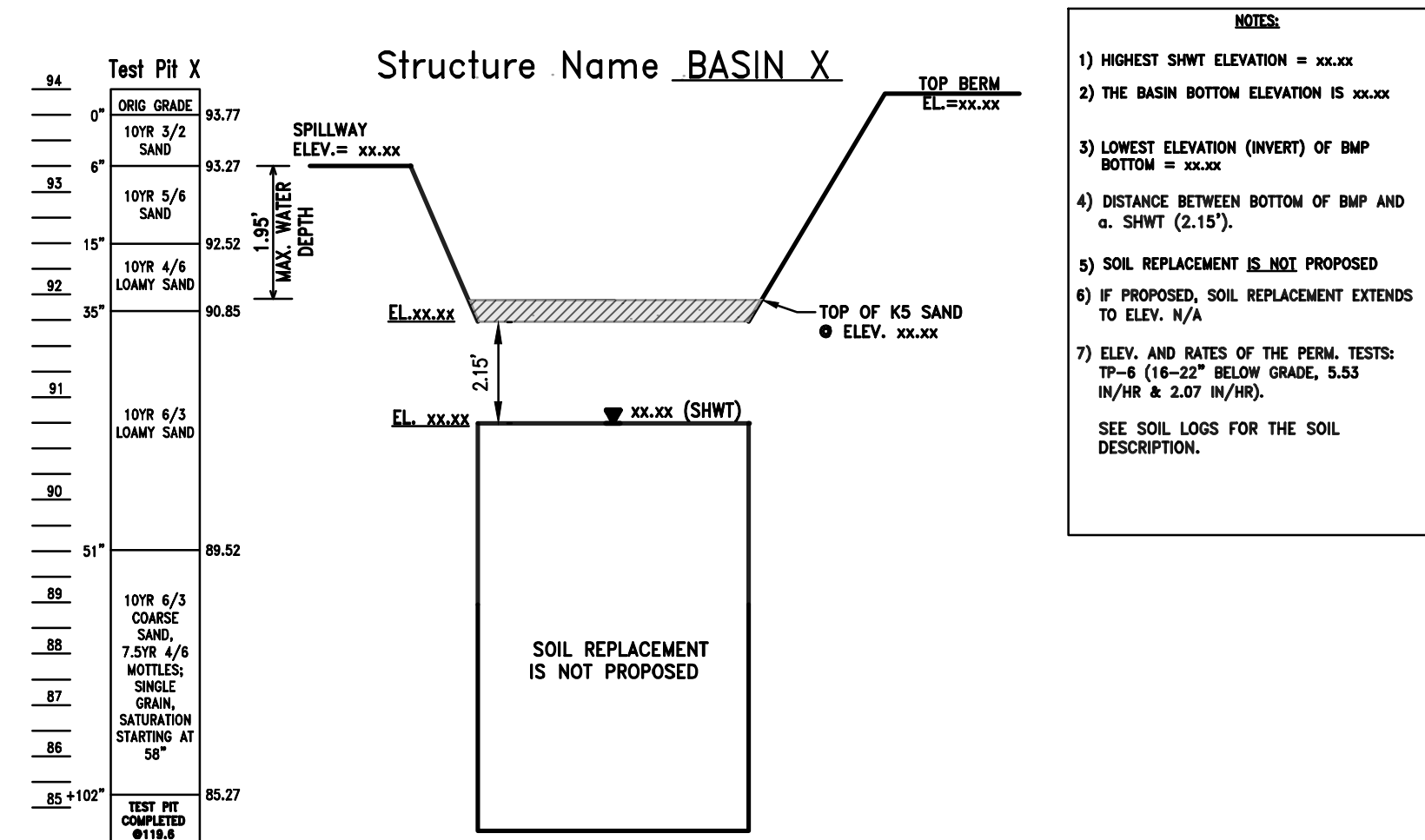
NJ PINELANDS STORMWATER BMP-SOIL PROFILE CROSS-SECTION



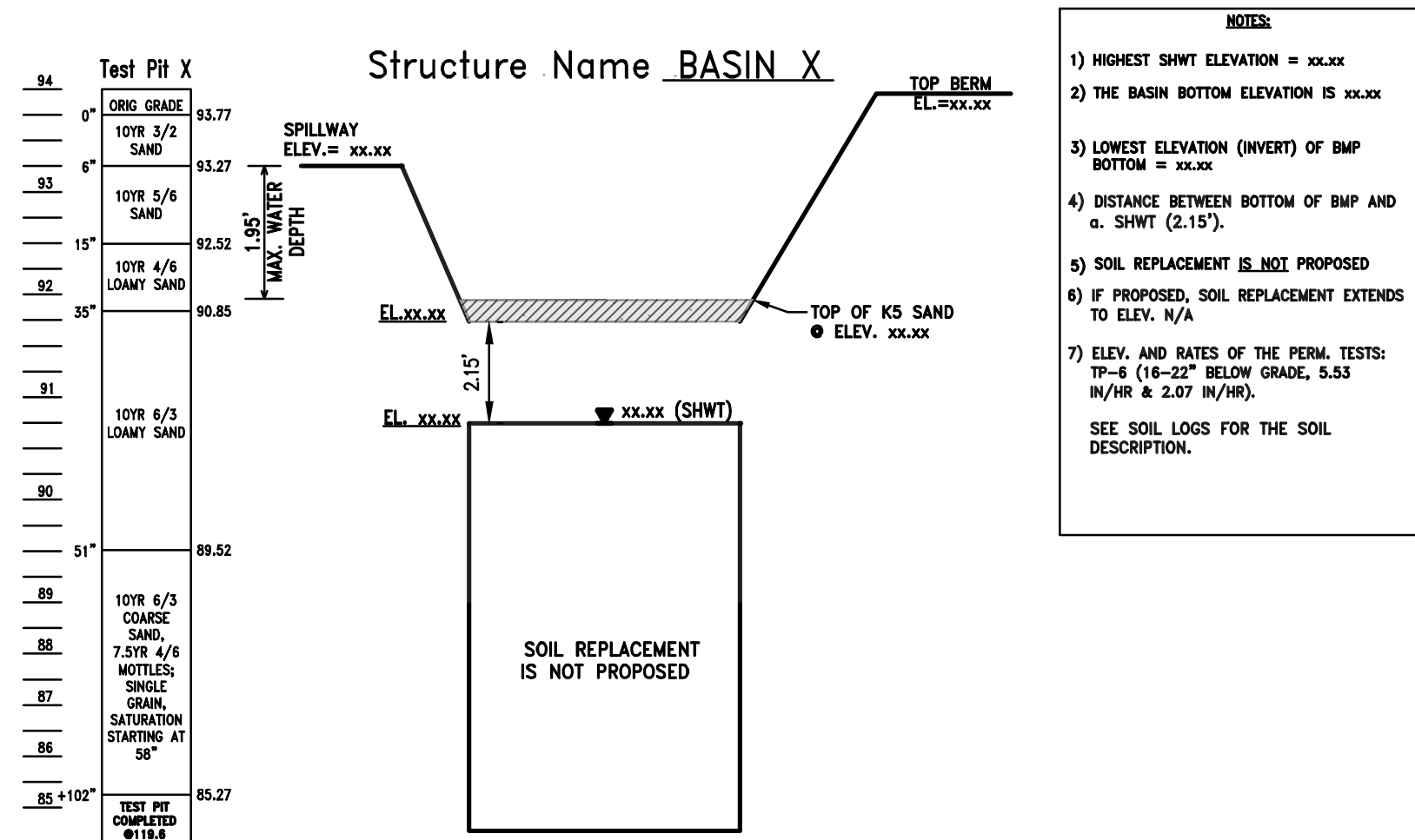
NJ PINELANDS STORMWATER BMP-SOIL PROFILE CROSS-SECTION



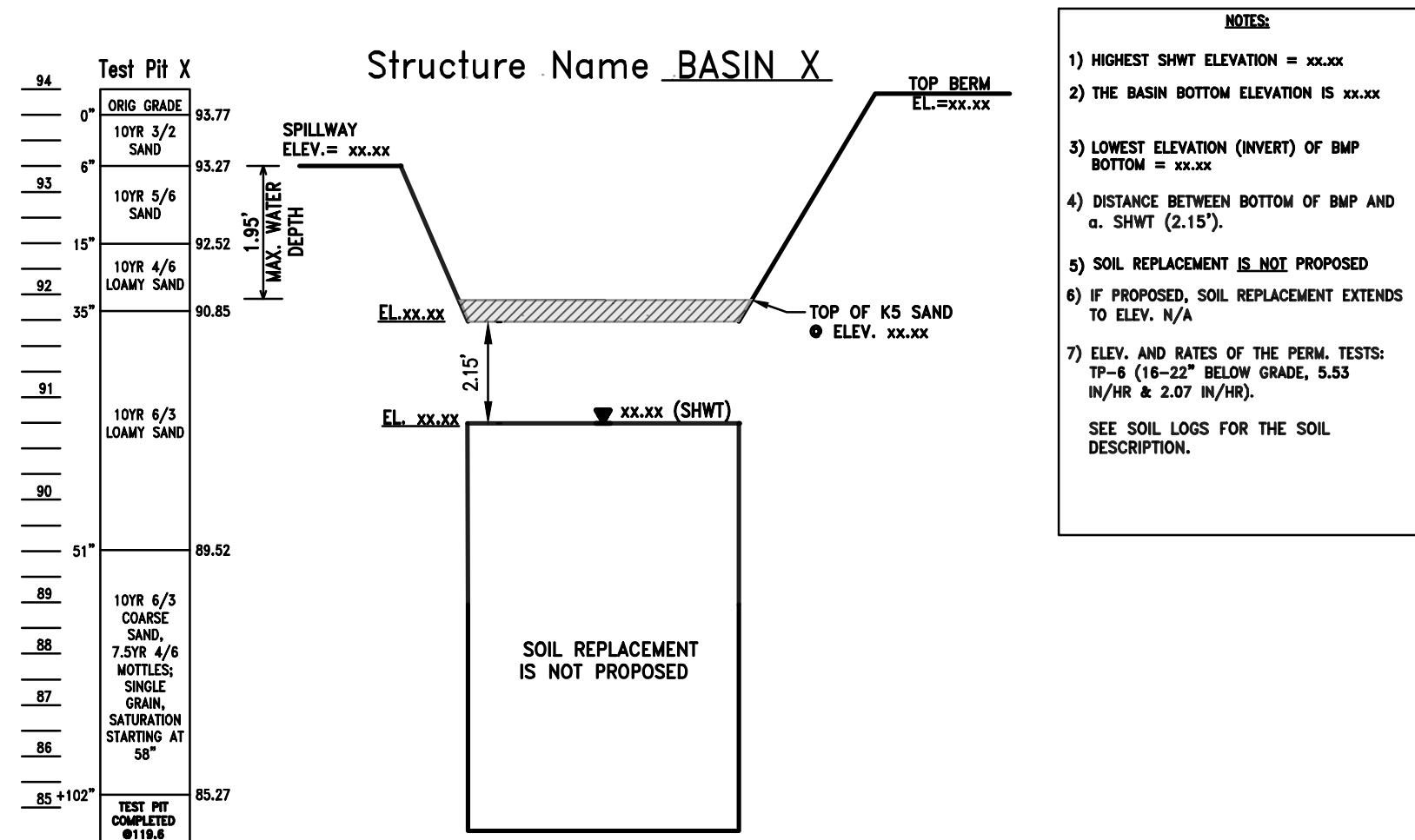
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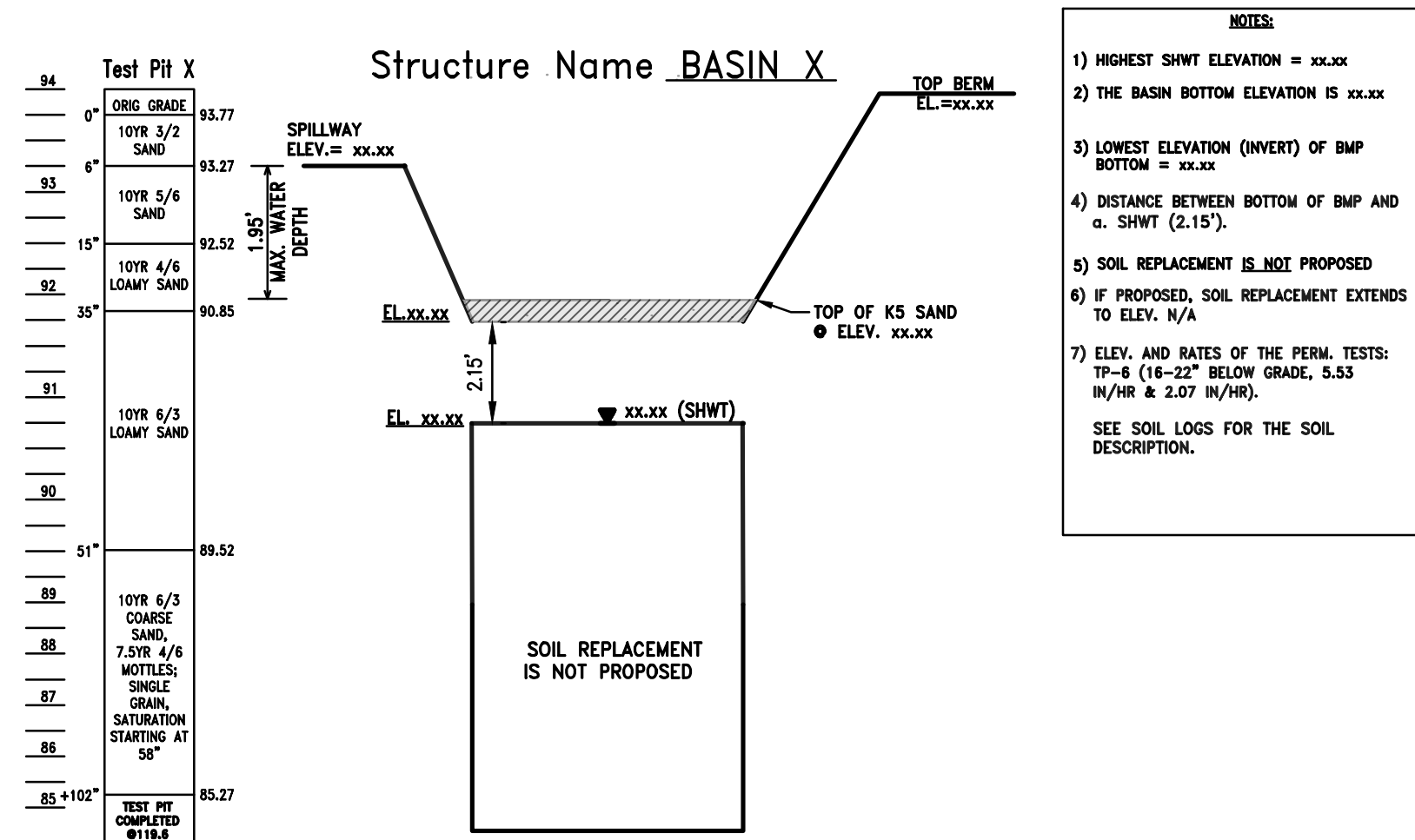
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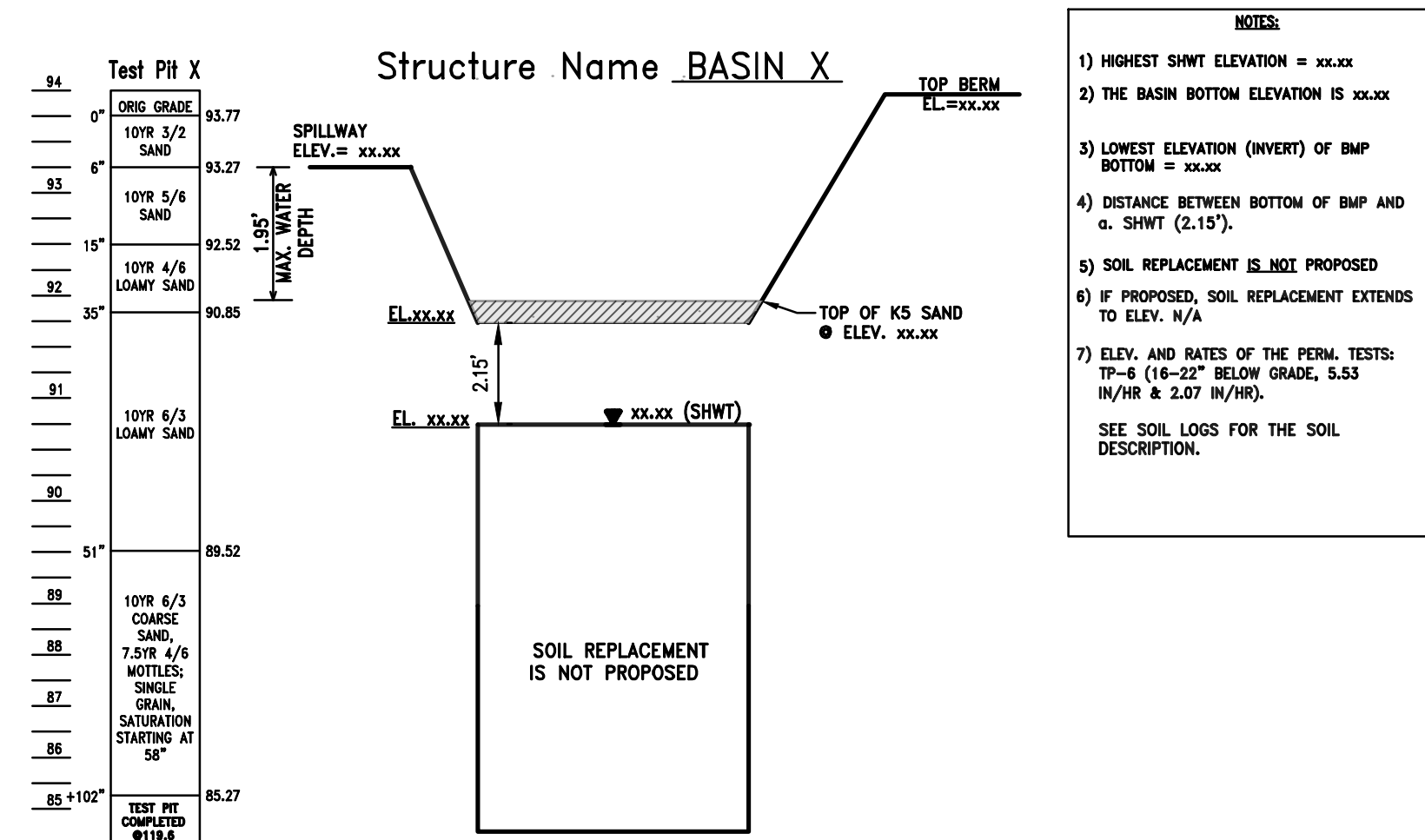
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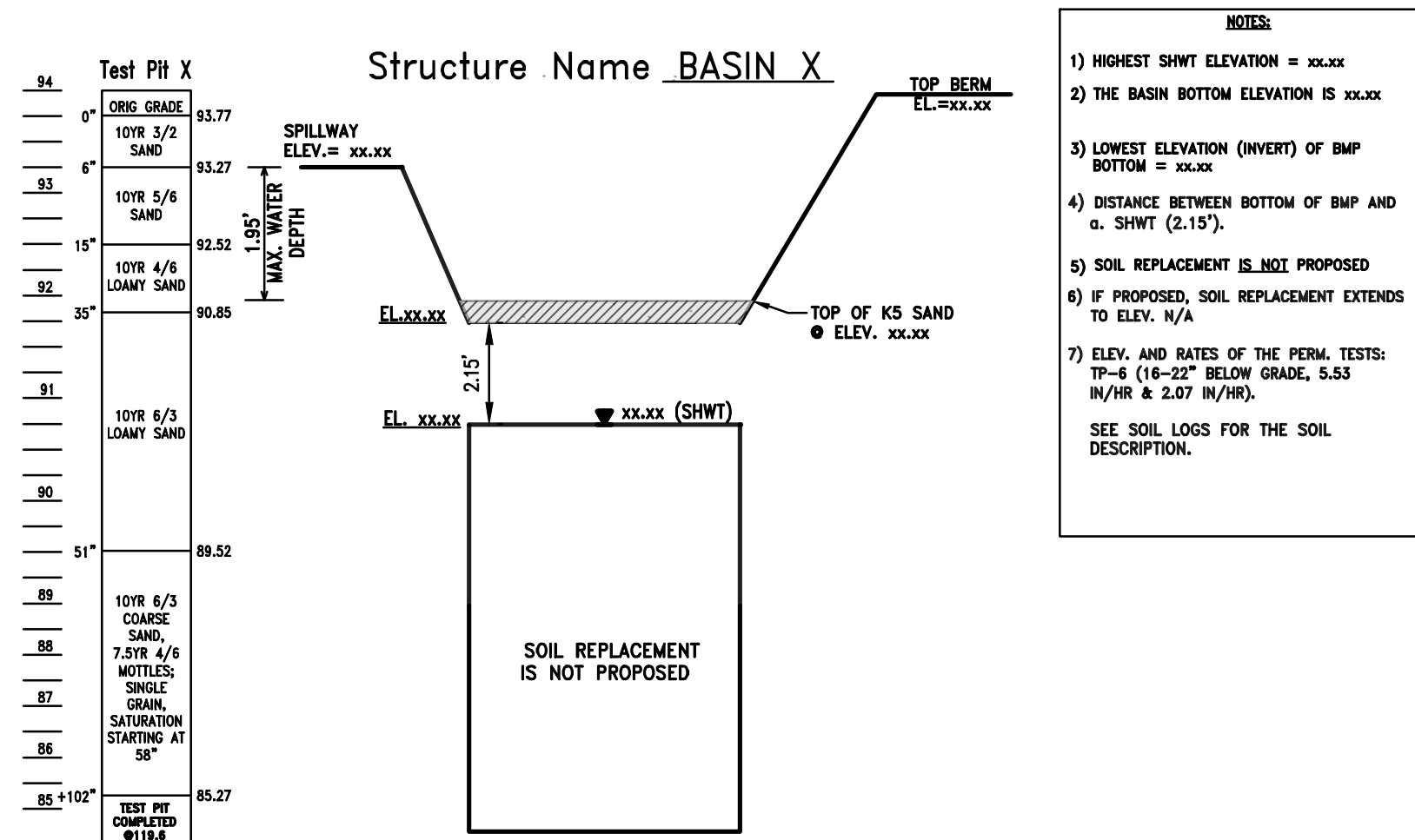
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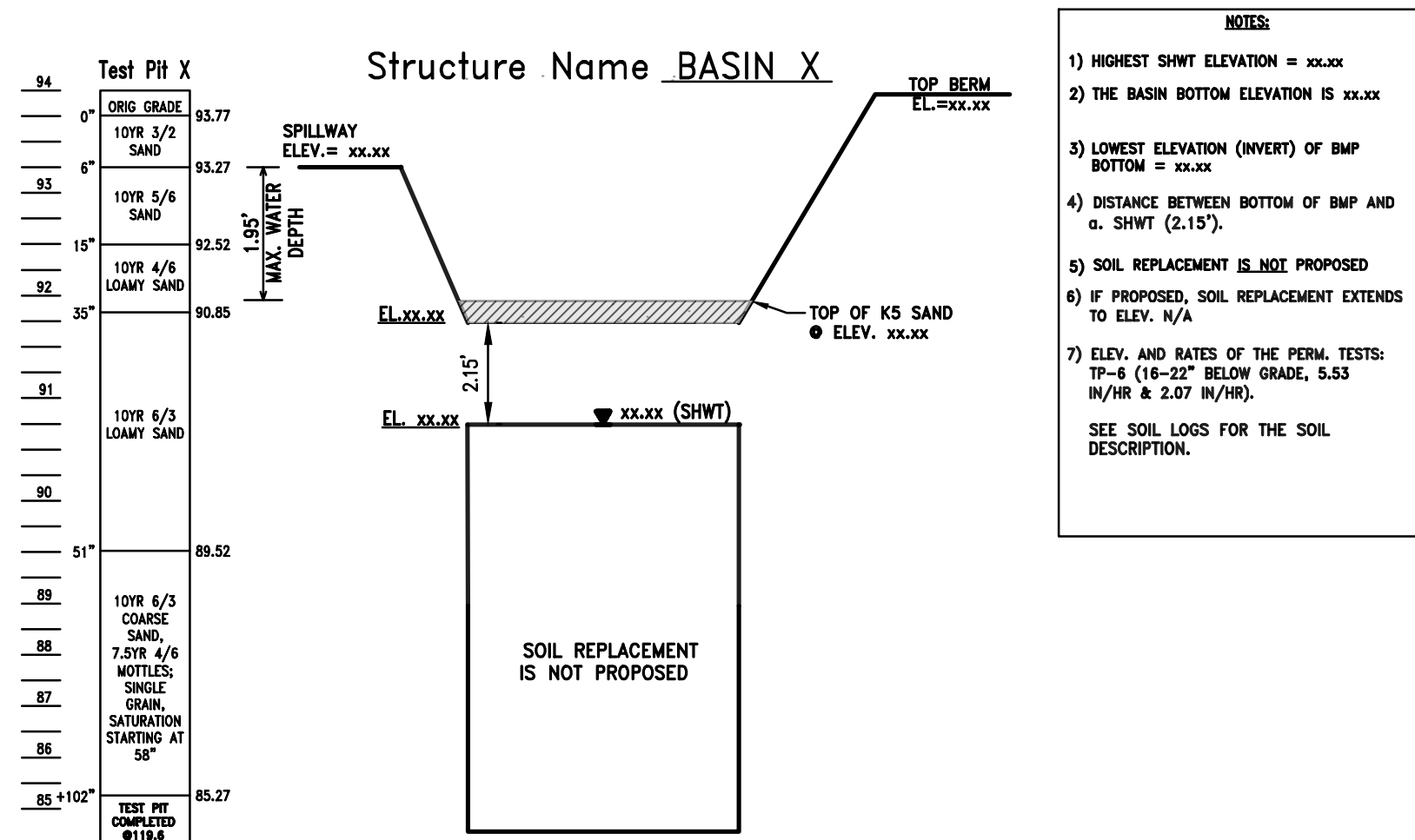
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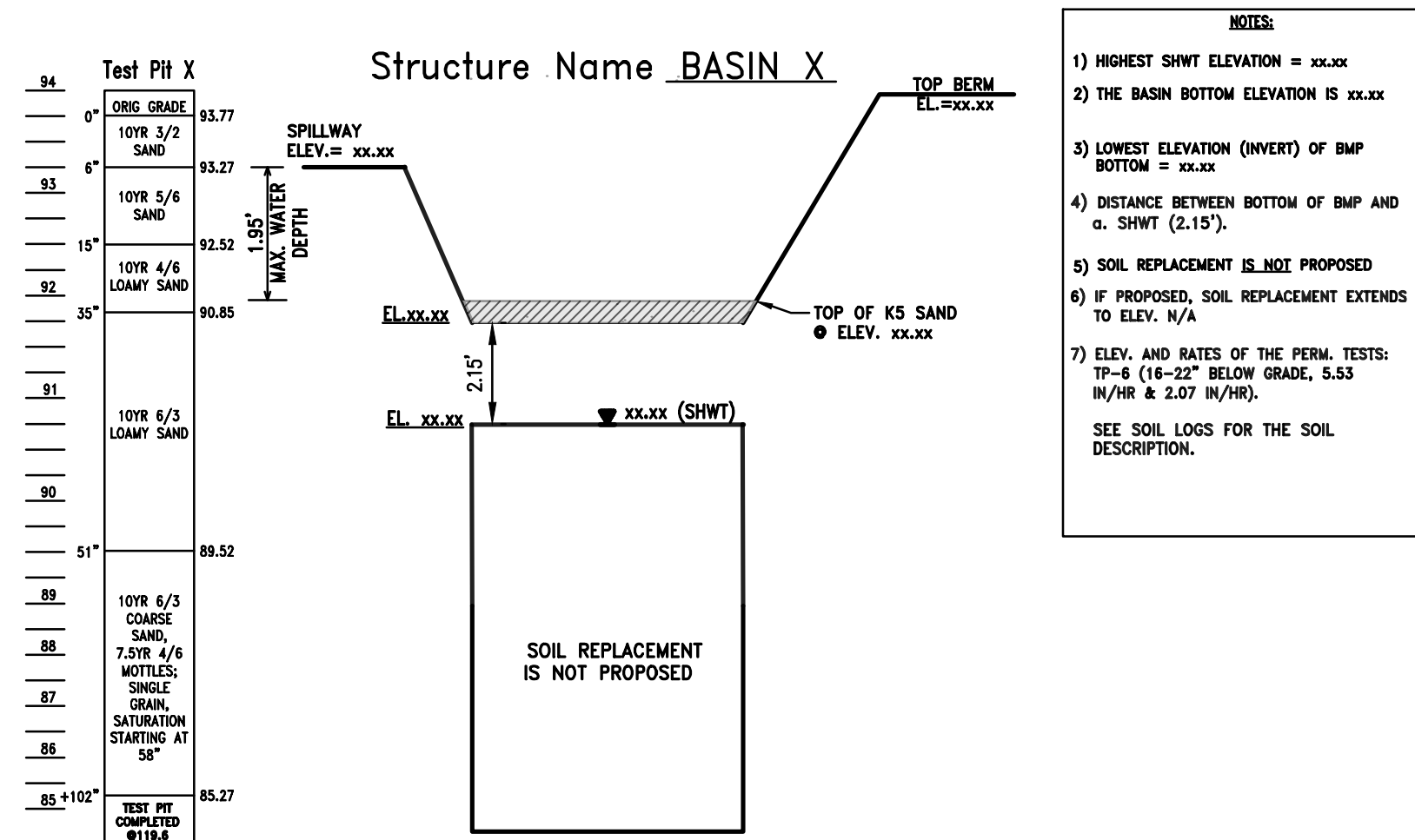
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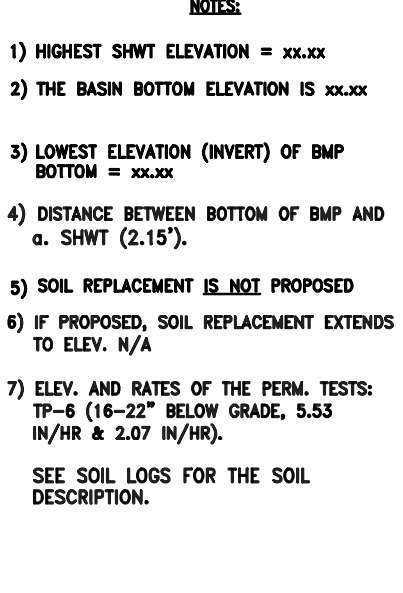
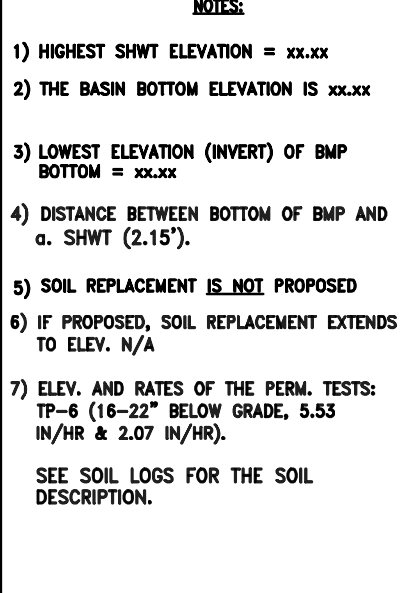
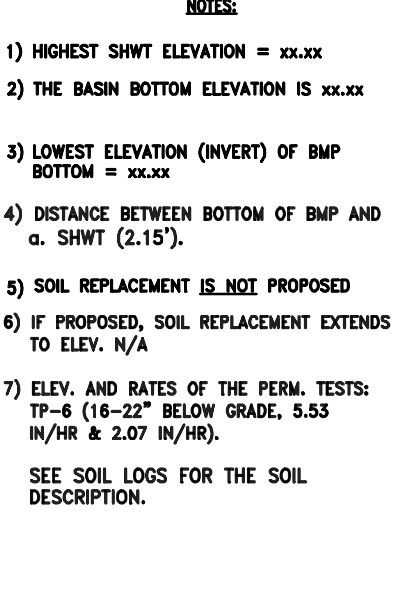
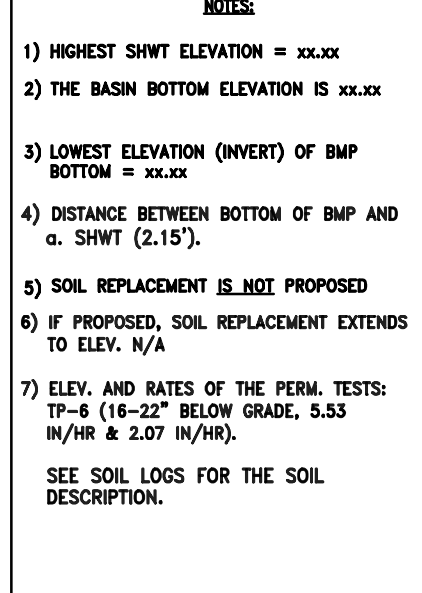
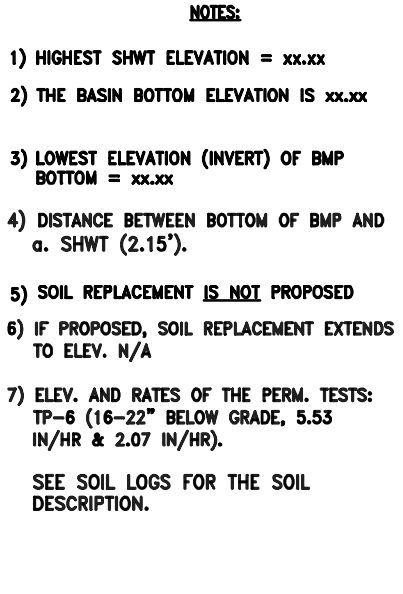
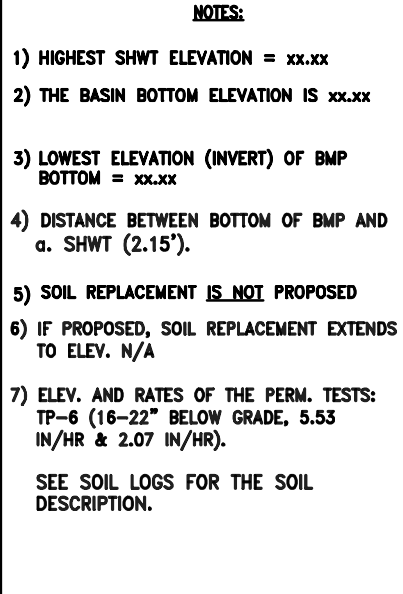
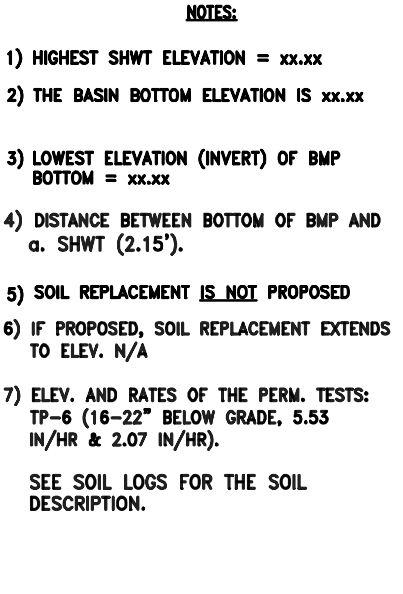
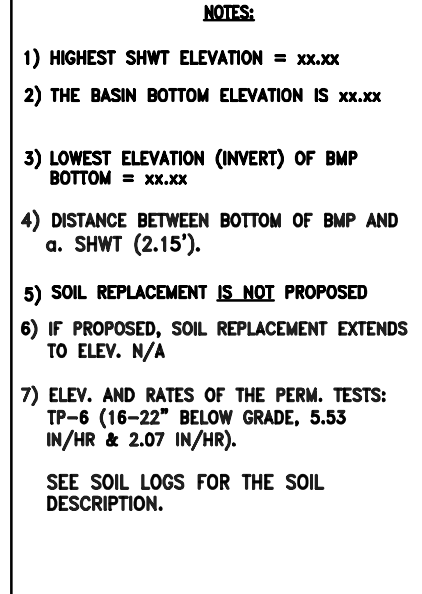
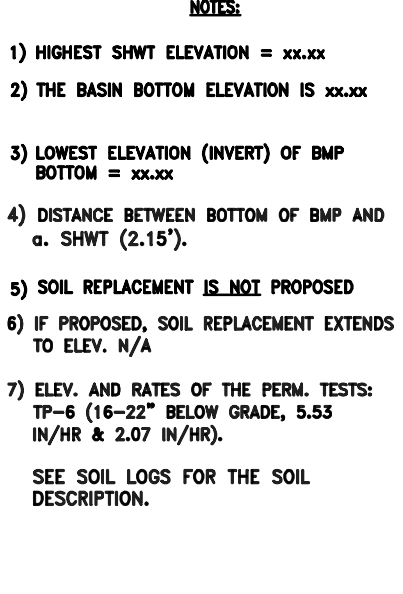
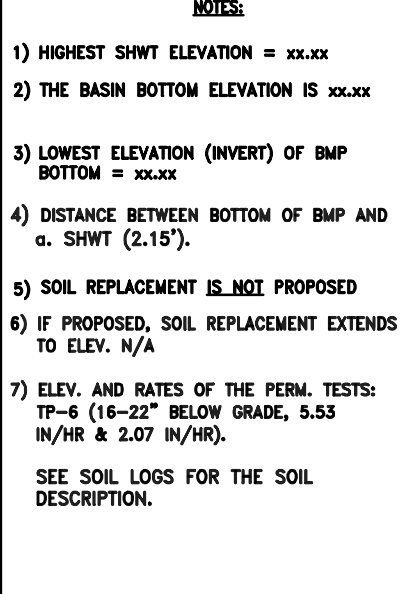
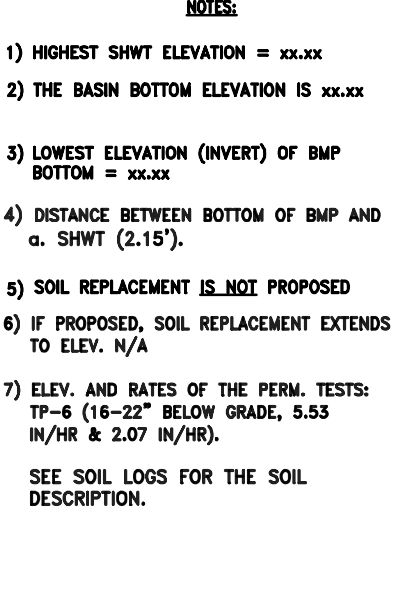
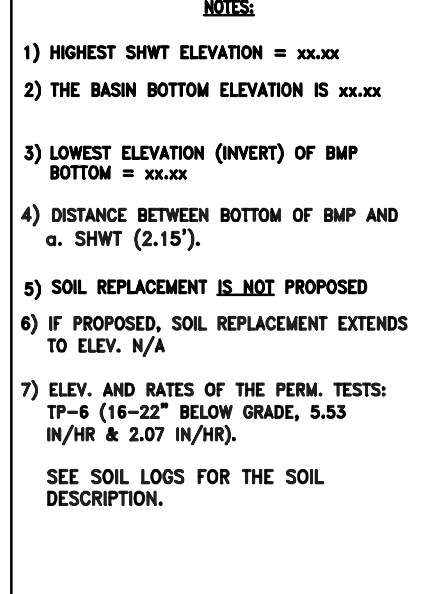


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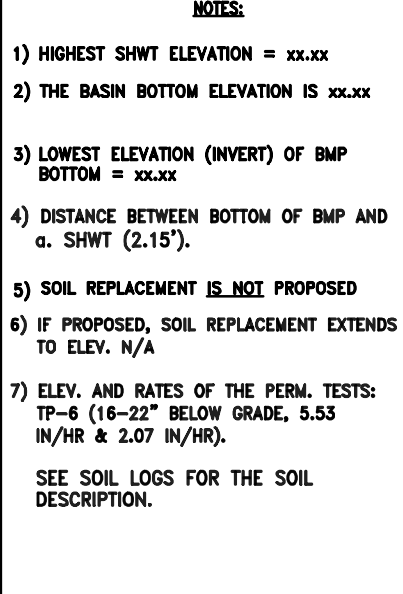
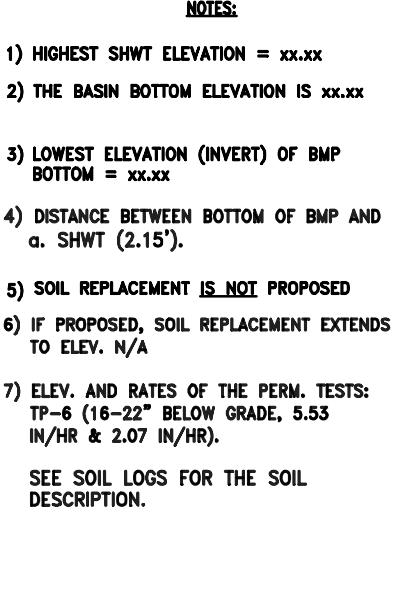
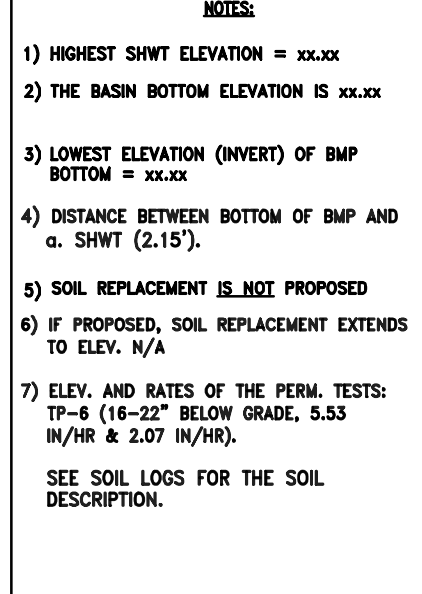
DRAFT	1	INITIAL SUBMISSION	SK	D.J.F.
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULICA TOWNSHIP		TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY		
STORM SEWER DETAIL SHEET				
BHT DESIGN GROUP		3555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301		
DAVID J. FLEMING, P.E.		PHYSICIAN LICENSE NO. 246033321600		
DRAFT		09/16/2022		
BHT 001.03		C1104		

MARATHON
Engineering & Environmental Services
Swedesboro Office
3 Killdeer Court, Suite 302, Swedesboro, NJ 08085
ph (856) 241-9705 fax (856) 241-9709
Certificate of Authorization #24GA27995700

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INFORMATION

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DATE: 09/16/2022 10:41:00 AM
DRAWN BY: J. FLEMING
CHECKED BY: J. FLEMING
SCALE: AS SHOWN
SHEET: 16 OF 24
PROJECT: BHT MULLICA TOWNSHIP
SUBJECT: SOIL LOGS DETAIL SHEET

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

DRAFT	1	INITIAL SUBMISSION	SK	D.F.								
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.								
BHT MULLICA TOWNSHIP SHT 35, BL 3503, LOTS 1 & 2, BL 3504, LOTS 1 & 2, BL 3505, LOT 1, BL 3506, LOT 1, BL 3507, LOTS 1 & 2, BL 3508, LOT 1, BL 3509, LOT 1 TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY			 MARATHON Engineering & Environmental Services Swedesboro Office 3 Killdeer Court, Suite 302, Swedesboro, NJ 08085 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700									
SOIL LOGS DETAIL SHEET												
BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301												
DAVID J. FLEMING, P.E. PRINCIPAL ENGINEER NEW JERSEY LICENSE NO. 246E03321600			<table><tr><td>SCALE</td><td>APPROVED</td></tr><tr><td>AS SHOWN</td><td>D.F.</td></tr><tr><td>DRAWN BY</td><td>SHEET</td></tr><tr><td>SK</td><td>16 OF 24</td></tr></table>		SCALE	APPROVED	AS SHOWN	D.F.	DRAWN BY	SHEET	SK	16 OF 24
SCALE	APPROVED											
AS SHOWN	D.F.											
DRAWN BY	SHEET											
SK	16 OF 24											
DRAFT 09/16/2022 BHT_001.03			C1106									

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DRAWN BY: J. FLEMING
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SOIL LOGS DETAIL SHEET									
BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301									
DAVID J. FLEMING, P.E. PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 246E03321600						ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. ARE INSTRUMENTS OF SERVICE IN RESPECT TO THE PROJECT THEY ARE NOT INTENDED OR REPRESENTED TO BE OBTAINED FOR REUSE OR FOR ANY OTHER PROJECT. ANY REUSE, WITHOUT WRITTEN AND EXPLICIT PERMISSION BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. SHALL BE AT THE USER'S SOLE RISK AND MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES, LOSSES, AND EXPENSES ARISING FROM ANY REUSE OF THESE DOCUMENTS.			
DRAFT						09/16/2022		BHT_001.03	
SCALE						AS SHOWN		APPROVED	
DRAWN BY						SK		D.J.F.	
SHEET						17 OF 24		DRAWING NO.	
C1107									

DATE: 09/16/2022 10:41:00 AM BY: J. FLEMING, P.E. PROJECT: BHT MULICA TOWNSHIP

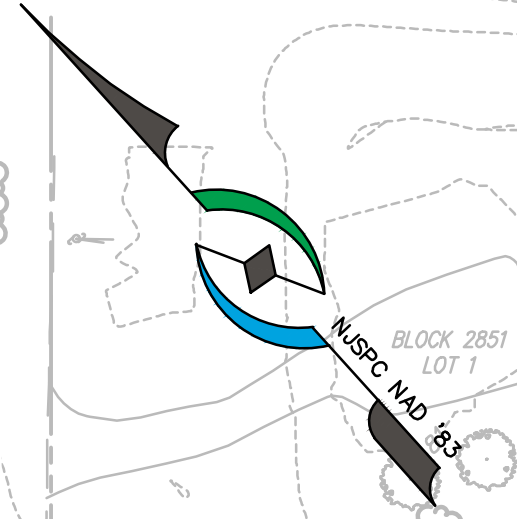
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BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301									
DAVID J. FLEMING, P.E. PRINCIPAL ENGINEER NEW JERSEY LICENSE NO. 24CE03321600						ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. ARE INSTRUMENTS OF SERVICE IN RESPECT TO THE PROJECT THEY ARE NOT INTENDED OR REPRESENTED TO BE OBTAINED FOR REUSE OR FOR ANY OTHER PROJECT. ANY REUSE, WITHOUT WRITTEN AND EXCLUSIVE AGREEMENT BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. SHALL BE AT THE USER'S SOLE RISK AND MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR FROM REUSE OF ANY OF ITS DOCUMENTS.			
DRAFT						09/16/2022		BHT_001.03	
						SCALE		APPROVED	
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						SK		18 OF 24	
						DRAWING NO.		C1108	

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GRAPHIC SCALE

50 0 25 50 100 200

1 INCH = 50 FEET

DRAFT	1	INITIAL SUBMISSION		SK	D.F.								
ISSUE DATE	ISSUE NO.		SUBMISSION/REVISION	BY	APPR.								
BHT MULlica TOWNSHIP SH 35, 38, 350A, 107S 1 & 2, B. 350A, 107S 1 & 2, B. 350A, 107 L 1, B. 3501, 107S 1 & 2, B. 350A, 107 L 1, B. 350A, 107 L 1 TOWNSHIP OF MULlica, ATLANTIC COUNTY, NEW JERSEY				 MARATHON Engineering & Environmental Services Swedesboro Office 3 Killdeer Court, Suite 302, Swedesboro, NJ 08065 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700									
SOIL COMPACTION PLAN – B				<table border="1"> <tr> <td>SCALE</td> <td>APPROVED</td> </tr> <tr> <td>1" = 50'</td> <td>D.F.</td> </tr> <tr> <td>DRAWN BY</td> <td>SHEET</td> </tr> <tr> <td>SK</td> <td>22 OF 24</td> </tr> </table> DRAWING NO. C1204		SCALE	APPROVED	1" = 50'	D.F.	DRAWN BY	SHEET	SK	22 OF 24
SCALE	APPROVED												
1" = 50'	D.F.												
DRAWN BY	SHEET												
SK	22 OF 24												
BHT DESIGN GROUP 5555 AUNTERDALE, SUITE 27 FORT LAUDERDALE, FL 33301				ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. ARE INSTRUMENTS OF SERVICE. THE USER OF SUCH DOCUMENTS SHALL BE RESPONSIBLE FOR THE PROPER USE OF SUCH DOCUMENTS. MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. DOES NOT GUARANTEE THE ACCURACY OF ANY INFORMATION PROVIDED BY OTHERS. MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. DOES NOT GUARANTEE THE ACCURACY OF ANY INFORMATION PROVIDED BY OTHERS. MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. DOES NOT GUARANTEE THE ACCURACY OF ANY INFORMATION PROVIDED BY OTHERS.									
DAVID J. FLEMING, P.E. PRINCIPAL ENGINEER NEW JERSEY LICENSE NO. 24G003321600				09/16/2022 BHT 001.03									

DESIGNED BY: MARATHON ENGINEERING, LLC. 5555 ANGLERS AVENUE, SUITE 302, SWEDESBORO, NJ 08865
DRAWN BY: DAVID J. FLEMING, P.E. 5555 ANGLERS AVENUE, SUITE 302, SWEDESBORO, NJ 08865
CHECKED BY: DAVID J. FLEMING, P.E. 5555 ANGLERS AVENUE, SUITE 302, SWEDESBORO, NJ 08865
APPROVED BY: DAVID J. FLEMING, P.E. 5555 ANGLERS AVENUE, SUITE 302, SWEDESBORO, NJ 08865

GENERAL NOTES

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
3. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
5. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR MEASURES SHOULD BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR THE EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
6. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE CAPE-ATLANTIC CONSERVATION DISTRICT.
7. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
8. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
9. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
10. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.
11. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
12. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
13. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE FILTER FABRIC. (SEE DETAIL)
14. NJSA 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
15. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO ENSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
16. OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
17. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
18. THE CAPE ATLANTIC CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
19. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
20. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL PILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
21. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE CAPE ATLANTIC CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
22. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A PH OF 4 OR LESS.
23. TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
24. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
25. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
26. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
27. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
28. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMEN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
29. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN.
30. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT

CAPE ATLANTIC CONSERVATION DISTRICT
6260 OLD HARDING HIGHWAY
MAYS LANDING, NJ 08330
(609) 625-3144 OR (609) 625-7000 EXT. 6154
FAX: (609) 625-7360

WORK HOURS AND NOISE CONTROL

1. CONSTRUCTION HOURS
A. MONDAY THRU FRIDAY: 7:00AM-6:00PM (AS APPROVED BY ACIT)
B. SATURDAY: 8:00AM-4:30PM (AS APPROVED BY ACIT)
C. SUNDAY: NO WORK TO BE PERFORMED.
D. THE HOURS STATED SHALL BE ADHERED TO UNLESS DUE TO WEATHER AND OR SCHEDULE CHANGES. ACIT SHALL BE NOTIFIED OF ALL TIME CHANGES.
2. NOISE CONTROL EQUIPMENT TO BE UTILIZED SHALL BE STANDARD EARTH MOVING EQUIPMENT, CRANES, MIXERS, ETC. WHICH MEET STANDARDS ESTABLISHED BY STATE AND FEDERAL LAWS REGARDING THE AMOUNT OF NOISE PRODUCED.

DETAILED CONSTRUCTION SEQUENCE

1. INSTALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES.
A. PLACE STABILIZED CONSTRUCTION ENTRANCE WHERE INDICATED ON PLAN.
B. PLACE SILT FENCE AND INLET PROTECTION FOR PROPOSED INLETS WHERE INDICATED ON PLAN.
2. CLEAR AND GRUB CONSTRUCTION AREA AND DEMOLITION OF EXISTING IMPROVEMENTS.
3. CONSTRUCT BASINS.
4. ROUGH GRADE SITE.
5. INSTALL UNDERGROUND UTILITIES, DRAINAGE AND SUBSURFACE DRAINAGE BASINS. THE SUBSURFACE DRAINAGE SHALL BE PROTECTED FROM SILT ENTERING.
6. CONSTRUCT BUILDING AND SITE FEATURES.
7. CONSTRUCT PAVING.
8. TOPSOIL, LIME, FERTILIZE, SEED AND STABILIZE AS REQUIRED.
9. REMOVE CONSTRUCTION SILTS FROM WITHIN BASINS AND REMOVE FROM SITE. REPLACEMENT SOILS TO BE INSTALLED IF REQUIRED AND PLACE SAND BOTTOM.
10. REMOVE SOIL CONSERVATION MEASURES UPON STABILIZATION OF SITE AS APPROVED BY THE CAPE ATLANTIC SOIL CONSERVATION DISTRICT.

TEMPORARY VEGETATION

1. TEMPORARY VEGETATIVE COVER: ESTABLISH TEMPORARY VEGETATIVE COVER ON SOILS EXPOSED FOR PERIODS OF TWO TO 6 MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT SEEDING WITH 60 DAYS.
2. PRIOR TO HALTING CONSTRUCTION FOR PERIODS LONGER THAN 30 DAYS AND DURING THE OFF SEASON, THE CONTRACTOR SHALL STABILIZE WITH TEMPORARY VEGETATIVE COVER ALL EXPOSED SOILS.
3. TEMPORARY VEGETATIVE COVER SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS:
A. SITE PREPARATION – GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
B. SEEDBED PREPARATION – APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, THE CONTRACTOR MAY APPLY PULVERIZED DOLOMITIC LIMESTONE AT THE RATE OF 90 POUNDS PER 1000 SQUARE FEET. APPLY 10–20–10 FERTILIZER OR EQUIVALENT AT THE RATE OF 11 POUNDS PER 1000 SQUARE FEET. THE LIME AND FERTILIZER SHALL THEN BE "WORKED" INTO THE SOIL TO A DEPTH OF 4" WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT.
C. SEEDING – SEEDING SHALL CONSIST OF PERENNIAL RYEGRASS APPLIED AT THE RATE OF 1 POUND PER 1000 SQUARE FEET DURING COOL SEASON OR WEEPING LOVEGRASS AT 5 LBS. PER ACRE DURING WARM SEASON PLANTING.
D. MULCHING – THE CONTRACTOR SHALL MULCH ALL NEWLY SEEDED AREAS WITH UNROTTED SMALL GRAIN STRAW OR HAY FREE OF SEEDS AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET. IT SHALL BE ANCHORED THROUGH THE USE OF THE PEG AND TWINE METHOD. THE PEG AND TWINE METHOD OF MULCH ANCHORING SHALL CONSIST OF DRIVING 8–10 INCH WOODEN PEGS TO WITHIN 2–3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
E. SEEDING DATE – SEEDING DATES FOR TEMPORARY VEGETATION SHALL OCCUR BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1. IF SEED IS NOT PLANTED WITHIN THESE DATES, THE CONTRACTOR SHALL STABILIZE WITH (MULCH: HAY OR EQUIVALENT) AT A RATE OF 2 TONS PER ACRE AND ANCHORED AS SPECIFIED ABOVE.

PERMANENT VEGETATION

1. PERMANENT VEGETATION: IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES AT THE SITE, THE CONTRACTOR SHALL STABILIZE WITH PERMANENT VEGETATIVE COVER, ALL EXPOSED AND DISTURBED SOILS.
2. PERMANENT VEGETATIVE COVER SHALL BE ACCOMPLISHED AS SPECIFIED BELOW:
A. SITE PREPARATION – GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
B. TOPSOILING – THE CONTRACTOR SHALL PREPARE AREAS TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER BY APPLYING TOPSOIL TO A UNIFORM DEPTH OF 6". TOPSOIL SHOULD BE FRIABLE, LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIHOS PER CENTIMETER. MORE THAN 0.5 MILLIHOS MAY DESICATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). TOPSOIL HAULED IN FROM OFFSITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.
C. SEEDBED PREPARATION – APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, IMMEDIATELY FOLLOWING TOPSOILING, THE CONTRACTOR SHALL APPLY PULVERIZED DOLOMITIC LIMESTONE AT THE RATE OF 90 POUNDS PER 1,000 SQUARE FEET AND FERTILIZER (10–10–10) OR EQUIVALENT AT THE RATE OF 11 POUNDS PER 1000 SQUARE FEET. THE LIME AND FERTILIZER SHALL THEN BE "WORKED" INTO THE SOIL TO A DEPTH OF 4" WITH DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT.
D. SEEDING – (#12) MIXTURE SEED . (SEE BELOW) IF SOD IS USED SEE SOD SPECS.
CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDER OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.
E. MULCHING – THE CONTRACTOR SHALL MULCH ALL NEWLY SEEDED AREAS WITH UNROTTED SMALL GRAIN STRAW OR HAY FREE OF SEEDS AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET. IT SHALL BE ANCHORED THROUGH THE USE OF THE PEG AND TWINE METHOD. THE PEG AND TWINE METHOD OF MULCH ANCHORING SHALL CONSIST OF 8"–10" WOODEN PEGS TO WITHIN 2"–3" OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE TURNS.
F. SEEDING DATES – SEEDING DATES FOR PERMANENT VEGETATION SHALL OCCUR BETWEEN FEBRUARY 1 AND APRIL 30, MAY 1 TO AUGUST 14 OR BETWEEN AUGUST 15 AND OCTOBER 3. IF SEED IS NOT PLANTED WITHIN THESE DATES, THE CONTRACTOR SHALL STABILIZE WITH MULCH AS SPECIFIED ABOVE.

#12 MIXTURE (LAWN)	LBS/ACRE	LBS/1000 S.F.
33.4% JUSTICE TALL FESCUE	116.9	2.67
33.4% REBEL EXADE TALL FESCUE	116.9	2
33.2% PENN 1901 TALL FESCUE	116.2	2.66

IF HYDROSEEDING IS USED ALL SEEDING RATES SHALL BE INCREASED BY 25%.
IF SODDING IS USED SEE SOD SPECIFICATIONS.

SOD (IF SOD IS USED THE FOLLOWING SPECIFICATION SHALL BE USED)

1. CULTIVATED SOD IS PREFERRED OVER NATIVE SOD. SPECIFY "CERTIFIED SOD", OR OTHER HIGH QUALITY CULTIVATED SOD.
2. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEDDY GRASSES.
3. SOD SHOULD BE OF UNIFORM THICKNESS, APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP GROWTH).
4. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROKEN PADS OR TORN OR UNEVEN EDGES WILL NOT BE ACCEPTED.
5. FOR DROUGHTY SITES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD.
6. ONLY MOIST, FRESH, UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

- I. SITE PREPARATION:
A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
B. INSTALL NEEDED EROSION CONTROL PRACTICES AND FACILITIES, SUCH AS INTERCEPTOR DITCHES, DIKES AND TERRACES, EROSION STOPS AND DESILTING BASINS.
- II. SOIL PREPARATION:
A. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10–20–10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 38–0–0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOPDRESSING. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

SOIL TEXTURE	TONS / ACRE
CLAY,CLAY LOAM & HIGH ORGANIC SOIL	4
SANDY LOAM, LOAM & SILT LOAM	3
LOAMY SAND, SAND	2

B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FIRM SEEDBED IS PREPARED.
C. REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLOUDS, LUMPS OR OTHER UNSUITABLE MATERIAL.
D. INSPECT SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
- III. SOD PLACEMENT:
A. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, WORKING UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND NEVER UP ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
B. PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.
C. ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERWATER SOD TO A DEPTH OF 4 INCHES. BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS.
D. ON SLOPES GREATER THAN 3:1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8" TO 10" LONG BY 3/4" WIDE).
E. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER— CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WATER.
F. IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS.
- IV. TOPDRESSING:
IF SLOW RELEASE NITROGEN (300 POUNDS 38–0–0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOPDRESSING IS NOT MANDATORY.
A. A FALL INSTALLATION OF SOD WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10–20–10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.

DUST CONTROL:

DUST CONTROL SHALL BE ACCOMPLISHED BY THE METHODS DESCRIBED BELOW.

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/AC
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) – SPRAY ON POLYACRYLAMIDE (PAM) – DRY SPREAD	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD, P. 26-1		
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

TILLAGE: TO ROUGHEN SURFACE AND BRING CLOUDS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS PLACED ABOUT 12 INCHES APART, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING: SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS: SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE: SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.

STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

STANDARD FOR TOPSOILING

DEFINITION: TOPSOILING ENTAILS THE DISTRIBUTION OF SUITABLE QUALITY SOIL ON AREAS TO BE VEGETATED.
PURPOSE: TO IMPROVE THE SOIL MEDIUM FOR PLANT ESTABLISHMENT AND MAINTENANCE.
WATER QUALITY ENHANCEMENT: GROWTH AND ESTABLISHMENT OF A VIGOROUS VEGETATIVE COVER IS FACILITATED BY TOPSOIL, PREVENTING SOIL LOSS BY WIND AND RAIN OFFSITE AND INTO STREAMS AND OTHER STORMWATER CONVEYANCES.
WHERE APPLICABLE: TOPSOIL SHALL BE USED WHERE SOILS ARE TO BE DISTURBED AND WILL BE REVEGETATED.

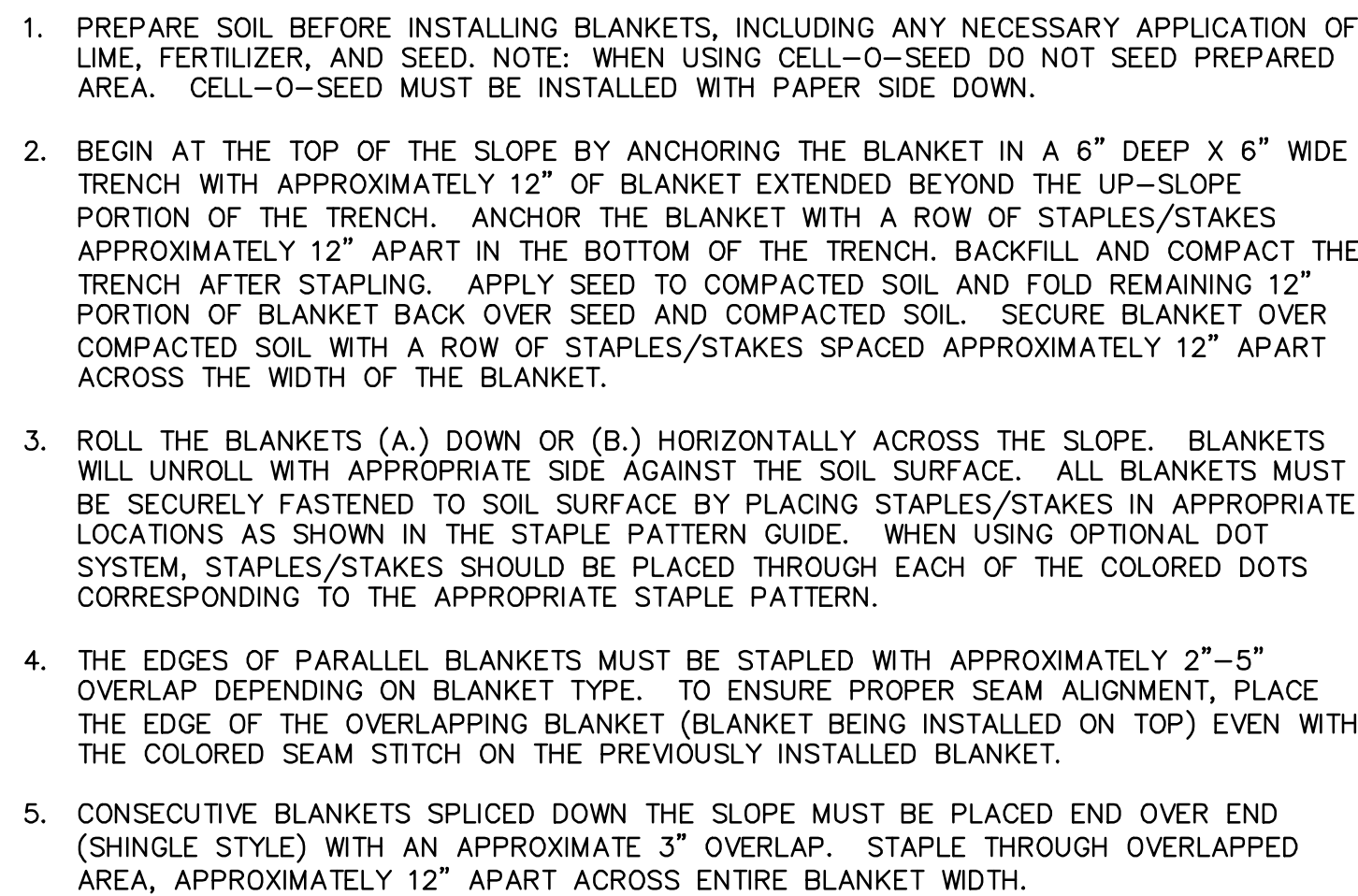
METHODS AND MATERIALS:

1. MATERIALS
A. TOPSOIL SHOULD BE FRIABLE (1), LOAMY (2), FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIHOS PER CENTIMETER. MORE THAN 0.5 MILLIHOS MAY DESICATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). TOPSOIL HALED IN FROM OFFSITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.
B. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME, AND HAS THE APPEARANCE OF TOPSOIL. TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL, OR FOR ESTABLISHING PERMANENT VEGETATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL.
C. STRIPPING AND STOCKPILING
A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.
B. STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5. IN LIEU OF SOIL TESTS, SEE LIME RATE GUIDE IN SEEDBED PREPARATION FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, PG. 4-1.
D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS PREVIOUSLY DESCRIBED HEREIN; SEE STANDARDS FOR PERMANENT (PG. 4-1) OR TEMPORARY (PG. 7-1) VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.
3. SITE PREPARATION
A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED MIXTURE. TIME IS OF THE ESSENCE.
B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING. SEE THE STANDARD FOR LAND GRADING, PG. 19-1.
C. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL TO A PH OF APPROXIMATELY 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.
D. IMMEDIATELY PRIOR TO TOPSOILING, THE SURFACE SHOULD BE SCARIFIED 6 TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS WILL HELP INSURE A GOOD BOND BETWEEN THE TOPSOIL AND SUBSOIL. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
E. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
4. APPLYING TOPSOIL
A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY (SEE GLOSSARY).
B. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS RECOMMENDED. SOILS WITH A PH OF 4.0 OR LESS CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE, IN ACCORDANCE WITH A STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL (PG. 1-1).

FOOTNOTES:

- (1) FRIABLE MEANS EASILY CRUMBLES IN THE FINGERS, AS DEFINED IN MOST SOILS TEXTS.
- (2) LOAMY MEANS TEXTURE GROUPS CONSISTING OF COARSE LOAMY SANDS, SANDY LOAM, FINE AND VERY FINE SANDY LOAM, SILT LOAM, CLAY LOAM, SANDY CLAY LOAM AND SILTY CLAY LOAM TEXTURES AND HAVING LESS THAN 35% COARSE FRAGMENTS (PARTICLES LESS THAN 2MM IN SIZE) AS DEFINED IN THE GLOSSARY OF SOIL SCIENCE TERMS, 1996, SOIL SCIENCE SOCIETY OF AMERICA.

DRAFT	1	INITIAL SUBMISSION	SK	D.J.F.
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
BHT MULLICA TOWNSHIP		MARATHON		
SHT 35, RL 3501, LOTS 1 & 2, RL 3504, LOTS 1 & 2, RL 3505, LOT 1, RL 3506, LOT 1 & 2, RL 3508, LOT 1, RL 3509, LOT 1		Engineering & Environmental Services		
TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY		Swedesboro Office		
SOIL EROSION AND SEDIMENT CONTROL NARRATIVE SHEET		3 Killdeer Court, Suite 302, Swedesboro, NJ 08865		
BHT DESIGN GROUP		ph (856) 241-9705 fax (856) 241-9709		
5555 ANGLERS AVENUE, SUITE 27		Certificate of Authorization #24GA27995700		
FORT LAUDERDALE, FL 33301		DAVID J. FLEMING, P.E.		
PRINCIPAL ENGINEER		NEW JERSEY LICENSE NO. 2446033321600		
DRAFT		9/16/2022		
BHT 001.03		C1301		



NOTE:

1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
2. DEWITT, EXCELSIOR, EROSION CONTROL BLANKET WITH BIODEGRADABLE BLANKET MATERIAL AND PHOTO DEGRADABLE NETTING OR APPROVED EQUAL.

SLOPE BLANKET INSTALLATION DETAIL

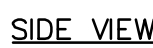
N.T.S.



1. PIT DIMENSIONS ARE VARIABLE, WITH THE MINIMUM DIAMETER BEING 2 TIMES THE STANDPIPE DIAMETER.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER CORRUGATED OR PVC PIPE, THEN WRAPPING WITH 1/2" HARDWARE CLOTH AND GEOTEXTILE FABRIC. THE PERFORATIONS SHALL BE 1/2" x 6" SLITS OR 1" DIAMETER HOLES.
3. A BASE FILTER MATERIAL, CONSISTING OF CLEAN GRAVEL OR ASTM C 33 STONE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH THE SAME FILTER MATERIAL.
4. THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT OR THE BASE ELEVATION (BASE OF WATER ONLY). AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION.
5. ▽ WATER SURFACE ELEVATION.
6. SEDIMENT CONTROL BAGS MUST NOT BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. BAGS MAY NOT BE REUSED.

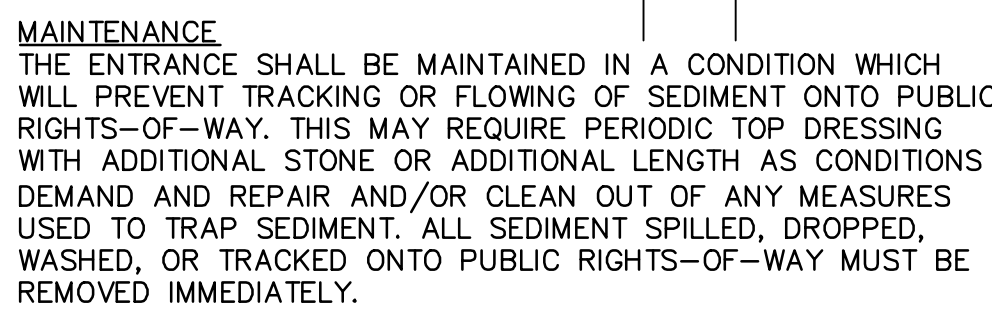
TEMPORARY SUMP PIT DURING CONSTRUCTION

N.T.S.



ACF ENVIRONMENTAL TYPE A INLET SEDIMENT
CONTROL DEVICE OR APPROVED EQUAL
INLET PROTECTION DETAIL

N.T.S.



STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.



SECTION A-A

PREFORMED SCOUR HOLE DETAIL

N.T.S.

ENDWALL	LA	W	C	D	D ₅₀	E
HDWL-1	9'	6'	24"	18"	4"	8"
HDWL-2	4.5'	3'	18"	9"	4"	8"

NOTES

1. FIFTY PERCENT, BY WEIGHT, OF THE RIP-RAP MIXTURE SHALL BE SMALLER THAN MEDIAN STONE SIZE DESIGNATED AS D₅₀. THE LARGEST STONE SIZE IN THE MIXTURE SHALL BE 1.5 TIMES THE D₅₀ SIZE.
2. A THREE FOOT WIDE BY THREE FOOT DEEP TIE WALL SHALL BE CONSTRUCTED AT THE END OF THE SCOUR HOLE.
3. THE D₅₀ SIZE SHOWN IS THE MINIMUM SIZE CALCULATED.



NOTE:
BAG MUST BE DISPOSED OF ACCORDING TO MANUFACTURER'S
INSTRUCTIONS. BAGS MAY NOT BE REUSED.

SEDIMENT CONTROL BAG
FOR DEWATERING DETAIL

N.T.S.



1. TOPSOIL STOCKPILE SHALL BE SURROUNDED BY SILT FENCE.
2. STOCKPILE SHALL RECEIVE TEMPORARY VEGETATIVE STABILIZATION IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY IMMEDIATELY AFTER COMPLETION OF STOCKPILE.
3. STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY FEET OF A FLOODPLAIN, SLOPES, ROADWAY, OR DRAINAGE FACILITY.

TOPSOIL STOCKPILE DETAIL

N.T.S.



N.T.S.

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

DRAFT		1		INITIAL SUBMISSION				SK		D/JF	
ISSUE DATE		ISSUE NO.		SUBMISSION		SUBMISSION/REVISION		BY		APPR.	
BHT MULICA TOWNSHIP SH 15S, RL 3502L, LOT 1 & 2, RL 3504L, LOT 1 & 2, RL 3505L, LOT 1 & 2, RL 3506L, LOT 1 & 2, RL 3507L, LOT 1 & 2, RL 3508L, LOT 1, RL 3509L, LOT 1 TOWNSHIP OF MULICA, ATLANTIC COUNTY, NEW JERSEY											
SOIL EROSION AND SEDIMENT CONTROL DETAIL SHEET BHT DESIGN GROUP 5555 ANGLERS AVENUE, SUITE 27 FORT LAUDERDALE, FL 33301											
DAVID J. FLEMING, P.E. PR. CALIFORNIA ENGINEER NEW JERSEY LICENSE NO.: 24603321600											
REDRAFT 09/16/2022 BHT 001.03											
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DRAWING NO. C1302											