

SITE DEVELOPMENT PLANS

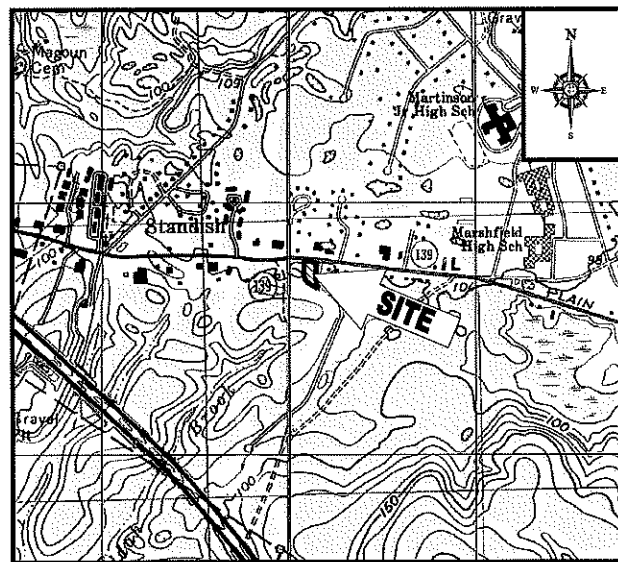
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PROPOSED



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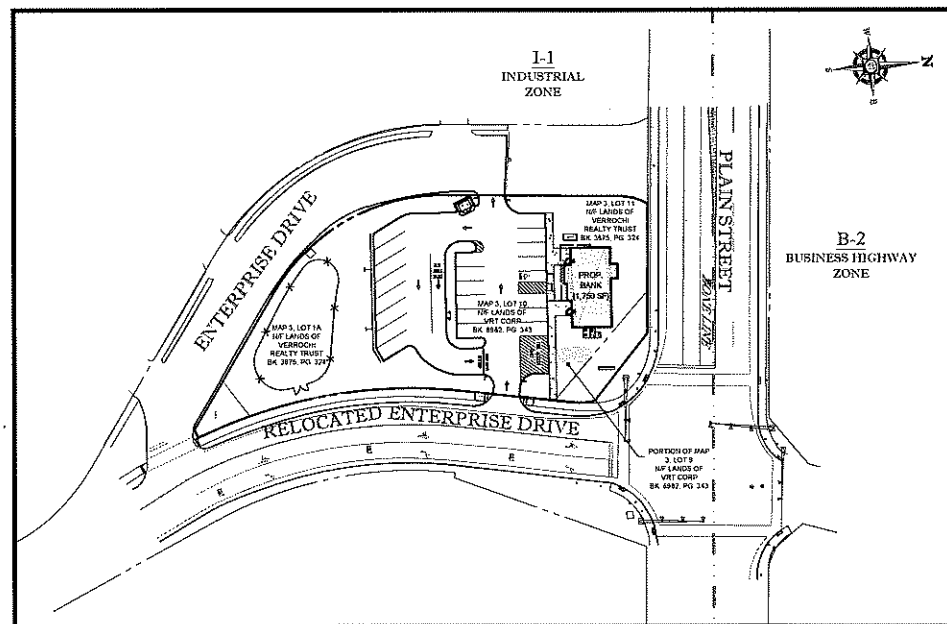
LOCATION OF SITE:

751 PLAIN STREET, TOWN OF MARSHFIELD,
PLYMOUTH COUNTY, MASSACHUSETTS
MAP #D10, BLOCK #3, LOTS #10, 11 & PORTIONS OF LOT #1A & 9



LOCATION MAP

SCALE: 1"=1000'
PLAN REFERENCE: DUXBURY MASSACHUSETTS USGS QUADRANGLE



AREA PLAN

SCALE: 1"=60'

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PREPARED BY



MARSHFIELD PLANNING BOARD

SIGNATURE _____	DATE _____
SIGNATURE _____	DATE _____
SIGNATURE _____	DATE _____
SIGNATURE _____	DATE _____
SIGNATURE _____	DATE _____
SIGNATURE _____	DATE _____

REVISIONS			
REV	DATE	COMMENT	BY
1	11/01/19	SITE PLAN REVIEW SUBMITTAL	NPD
2	11/27/19	REVISED PER TOWN COMMENTS	CFD
3	02/10/20	REVISED PER TOWN COMMENTS	NPD
4	03/03/20	REVISED PER TOWN COMMENTS	CFD
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PERMIT SET

PROJECT No.: W181131
DRAWN BY: NPD
CHECKED BY: RMM
DATE: 08/26/2019
SCALE: AS NOTED
CAD/D: W181131SS4

PROJECT: SITE DEVELOPMENT PLANS FOR



LOCATION OF SITE:
MAP #D10, BLOCK #3, LOTS #10, 11 & PORTIONS OF LOT #1A & 9
751 PLAIN STREET
TOWN OF MARSHFIELD
PLYMOUTH COUNTY, MA



352 TURNPIKE ROAD
SOUTH-BOROUGH, MA 01772
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SHEET TITLE:
COVER SHEET

SHEET NUMBER:
1
OF 14

REV 4 - 03/03/2020

BOHLER ENGINEERING
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

THE INFORMATION AND CONTENT OF THIS PLAN HAS BEEN PREPARED AND SHALL NOT BE USED FOR ANY OTHER PURPOSES UNLESS APPROVED. ISSUED AND SEALED PLANS SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES.
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GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN... 1. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN... 2. ALL ACCESSIBLE (ADA) PARKING SPACES MUST BE CONSTRUCTED TO MEET... 3. PRIOR TO STARTING CONSTRUCTION... 4. THE OWNER/CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE FULFILLMENT OF ANY AND ALL CERTIFICATIONS... 5. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS... 6. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH... 7. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOHLER ENGINEERING... 8. ALL DIMENSIONS SHOWN ON THE PLANS MUST BE FIELD VERIFIED... 9. CONTRACTOR MUST REFER TO THE ARCHITECTURAL BUILDING PLANS... 10. PRIOR TO THE START OF CONSTRUCTION... 11. DEBRIS MUST BE BURIED ON THE SUBJECT SITE... 12. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN SHORING IS REQUIRED... 13. THE CONTRACTOR IS TO EXERCISE EXTREME CARE... 14. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE... 15. ALL CONCRETE MUST BE AIR ENTRAINED... 16. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS... 17. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY... 18. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY... 19. BOHLER ENGINEERING WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION... 20. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER ENGINEERING... 21. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS... 22. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION... 23. ALL SIGNING AND PAVEMENT STRIPPING... 24. ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES... 25. OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE... 26. ALL DIMENSIONS MUST BE TO FACE OF CURB... 27. ALL CONSTRUCTION AND MATERIALS MUST COMPLY... 28. CONTRACTOR AND OWNER MUST INSTALL ALL ELEMENTS... 29. CONTRACTOR IS RESPONSIBLE TO MAINTAIN ON-SITE... 30. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED...

GENERAL GRADING & UTILITY PLAN NOTES

- 1. LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES... 2. CONTRACTOR MUST VERTICALLY AND HORIZONTALLY LOCATE... 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW... 4. THE CONTRACTOR MUST LOCATE AND CLEARLY AND UNAMBIGUOUSLY... 5. THE CONTRACTOR MUST FAMILIARIZE ITSELF WITH THE APPLICABLE... 6. THE CONTRACTOR MUST INSTALL ALL STORM SEWER AND SANITARY... 7. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE... 8. WATER SERVICE LATERALS, BURIAL DEPTH AND COVER... 9. ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC... 10. SITE GRADING MUST BE PERFORMED IN ACCORDANCE... 11. ALL FILL, COMPACTION, AND BACKFILL MATERIALS... 12. THE CONTRACTOR MUST COMPLY TO THE FULLEST... 13. PAVEMENT MUST BE AS SHOWN... 14. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES... 15. DURING THE INSTALLATION OF SANITARY SEWER... 16. WHEN THE SITE IMPROVEMENT PLANS INVOLVE... 17. THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFICATION... 18. PROPOSED TOP OF CURB ELEVATIONS ARE... 19. REFER TO THIS SHEET FOR ADDITIONAL NOTES... 20. IN THE EVENT OF DISCREPANCIES AND/OR CONFLICTS... 21. CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY... 22. WHERE RETAINING WALLS (WHETHER OR NOT... 23. STORM DRAINAGE PIPE UNLESS INDICATED... 24. UNLESS INDICATED OTHERWISE ON THE DRAWINGS... 25. STORM AND SANITARY SEWER PIPE LENGTHS... 26. STORMWATER ROOF DRAIN LOCATIONS... 27. SEVERALS CROSSING STREAMS AND/OR LOCATION... 28. WATER MAIN PIPING MUST BE INSTALLED... 29. CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES... 30. LOCATION OF PROPOSED UTILITY POLE RELOCATION...

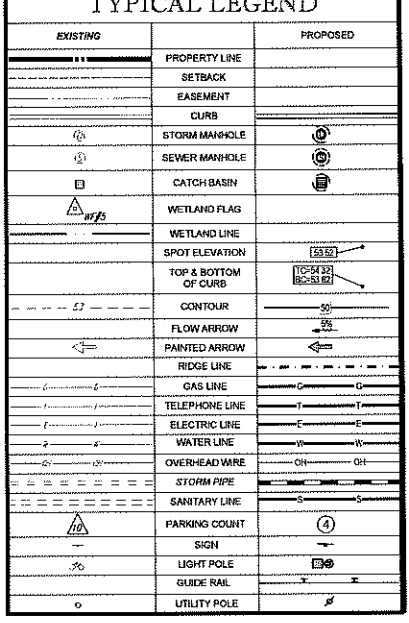
GENERAL DEMOLITION NOTES

- 1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY... 2. CONTRACTOR SHALL PERFORM ALL WORK... 3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL... 4. THE DEMOLITION PLAN IS INTENDED TO PROVIDE... 5. CONTRACTOR MUST RAISE ANY QUESTIONS... 6. PRIOR TO STARTING ANY DEMOLITION... 7. OBTAINING ALL REQUIRED PERMITS... 8. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT... 9. LOCATING AND PROTECTING ALL UTILITIES... 10. PROTECTING AND MAINTAINING IN OPERATION... 11. ARRANGING FOR AND COORDINATING WITH... 12. COORDINATION WITH UTILITY COMPANIES... 13. IN THE EVENT THE CONTRACTOR DISCOVERS... 14. THE FIRM OR ENGINEER OF RECORD IS NOT... 15. THE CONTRACTOR MUST PROVIDE ALL 'MEANS... 16. THE CONTRACTOR MUST NOT PERFORM ANY... 17. CONTRACTOR MUST BACKFILL ALL EXCAVATION... 18. EXPLOSIVES MUST NOT BE USED... 19. CONTRACTOR MUST CONSULT DEMOLITION... 20. DEMOLITION ACTIVITIES AND EQUIPMENT... 21. CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY... 22. THE DEMOLITION PLAN IS INTENDED TO IDENTIFY... 23. DEBRIS MUST BE BURIED ON THE SUBJECT... 24. CONTRACTOR MUST MAINTAIN A RECORD... 25. PARKING SPACES AND PARKING ISLES... 26. LANDINGS - MUST BE PROVIDED AT EACH... 27. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE... 28. CONTRACTOR MUST VERIFY THE SLOPES... 29. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR...

TYPICAL ABBREVIATIONS

Table with 4 columns: KEY, DESCRIPTION, KEY, DESCRIPTION. Includes items like BC BOTTOM CURB, TC TOP CURB, BOC BACK OF CURB, TW TOP OF WALL, EXIST. EXISTING, BM BENCHMARK, EOP EDGE OF PAVEMENT, Q CENTERLINE, P.F. FINISHED FLOOR, V.I.F. VERIFY IN FIELD, GC GENERAL CONTRACTOR, HP HIGH POINT, LP LOW POINT, TYP. TYPICAL, INT. INTERSECTION, PC POINT OF CURVATURE, PT. POINT OF TANGENCY, PL POINT OF INTERSECTION, PVI. POINT OF VERTICAL INTERSECTION, STA. STATION, GR. GRATE, INV. INVERT, PVC DUCTILE IRON PIPE, PVP POLYVINYL CHLORIDE PIPE, HOPE HIGH DENSITY POLYETHYLENE PIPE, RCP REINFORCED CONCRETE PIPE, S SLOPE, ME MEET EXISTING.

TYPICAL LEGEND



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REVISIONS table with columns: REV, DATE, COMMENT, BY. Includes revisions for SITE PLAN REVIEW, TOWN COMMENTS, and TOWN COMMENTS.

PERMIT SET stamp with fields for PROJECT No., DRAWN BY, CHECKED BY, DATE, SCALE, and CAD ID.

SITE DEVELOPMENT PLANS FOR HARBOR ONE Bank. LOCATION OF SITE: MAP #10, BLOCK #3, LOTS #10, 11 & PORTIONS OF LOT #1A & 9. 751 PLAIN STREET, TOWN OF MARSHFIELD, PLYMOUTH COUNTY, MA.

BOHLER ENGINEERING logo and contact information.

REFER TO SITE PLAN FOR ZONING ANALYSIS TABLE AND LAND USE/ZONING INFORMATION & NOTES

REFER TO SOIL EROSION CONTROL NOTES & DETAILS SHEET FOR TYPICAL EROSION NOTES AND DETAILS

REFER TO LANDSCAPE NOTES & DETAILS SHEET FOR TYPICAL LANDSCAPE NOTES AND DETAILS

REFER TO LIGHTING PLAN FOR TYPICAL LIGHTING NOTES AND TABLES

GENERAL NOTES SHEET stamp with fields for SHEET NUMBER (2 OF 14) and REV (REV 4 - 03/30/2020).

EROSION & SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
- THESE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNGRADED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POUD, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
- SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIERS WILL REMAIN IN PLACE PER NOTES.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SHOW UPST. IF WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UP-SLOPE ARE STABILIZED BY TYP.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1).
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEEDMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
 - SIX INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
 - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TESTING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 80 LB PER ACRE OR 18.4 LB PER 1,000 SF (500 TO 200) OR EQUIVALENT. APPLY GROUND LIMESTONE EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SF).
 - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 2% REDTOP, AND 49% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREPARATION MIXTURE OF 4% KENTUCKY BLUE GRASS, 4% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.02 LBS PER 1,000 SF LAWN QUALITY SOO MAY BE SUBSTITUTED FOR SEED.
 - STRAW MULCH AT THE RATE OF 25-30 LBS PER 1,000 SF. A HYDRO APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMV PLUS WILL BE USED ON STRAW MULCH FOR WIND CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
- WETLANDS WILL BE PROTECTED WITH STRAW BALES AND/OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM F. NOT BEING ACTIVELY WORKED.

MULCH

LOCATION / PROTECT AREA	MULCH STRAW	RATE (1000 SF) / 100 POUNDS
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW (ANCHORED)	185-275 POUNDS / 100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCELSION MAT	AS REQUIRED

GREATER THAN 3:1 (REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENTS)

*A HYDRO APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMV PLUS SHALL BE USED ON STRAW MULCH FOR WIND CONTROL.

MULCH ANCHORING
ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD. MULCH NETTING PER MANUFACTURER, WOOD CELLULOSE FIBER (750 LBS/ACRE) CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS), USE OF A SEPARATED STRAIGHT DISK WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

EROSION CONTROL NOTES DURING WINTER CONSTRUCTION

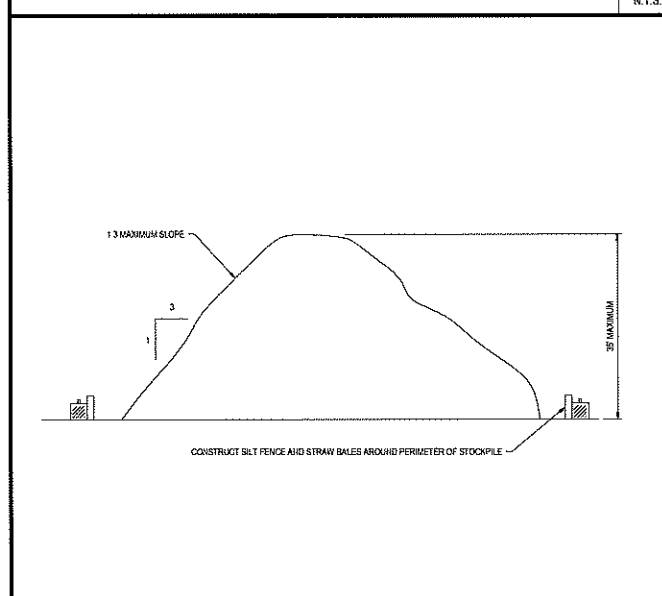
- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
- CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR SEED AT A RATE OF 100 LB PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 15, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOADED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEED AT A RATE OF 200 - 300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNPROTECTED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT. EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF STRAW OR STROKE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- MULCHING REQUIREMENTS:
 - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH ON ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
- DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
- STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
- EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.

CONSTRUCTION SEQUENCE

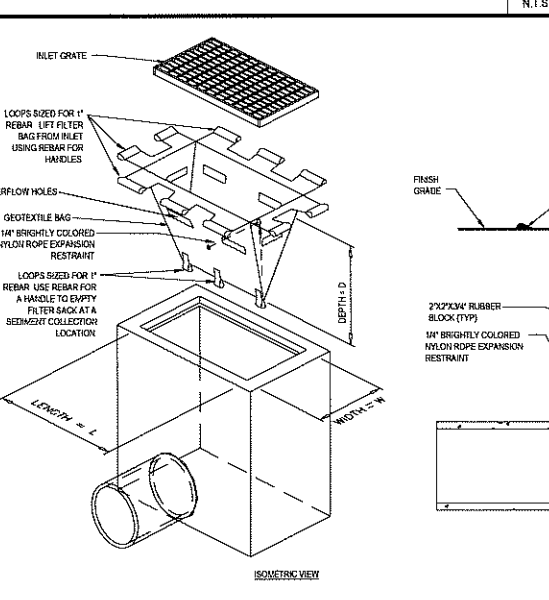
THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
- INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)
- INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN)
- DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
- DEMOLITION OF EXISTING SITE PAVEMENT AND ALIENITIES (SEE DEMOLITION PLAN)
- CLEARING AND GRUBBING
- INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS
- EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
- CONSTRUCTION OF UTILITIES
- STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
- INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
- CONSTRUCTION OF BUILDINGS
- CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
- SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
- FINAL GRADING OF ALL SLOPED AREAS
- PLACE 1" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED.
- REMOVAL OF THE TEMPORARY SEDIMENT BASINS
- HAVE PARKING LOT
- LANDSCAPING PER LANDSCAPING PLAN
- REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER

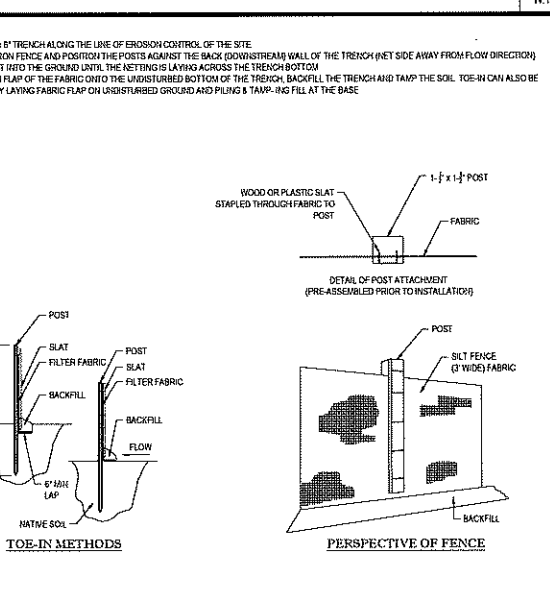
TREE PROTECTION DURING CONSTRUCTION



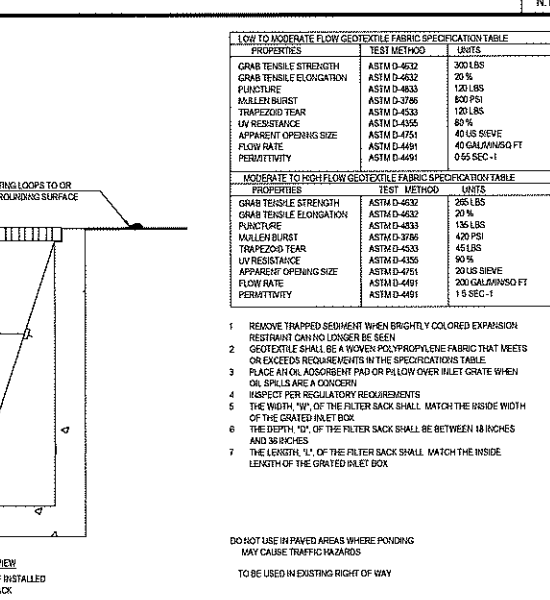
TEMPORARY STOCKPILE DETAIL



STRAW BALE DETAIL



TYP. SILTATION FENCE DETAIL



STABILIZED CONSTRUCTION EXIT

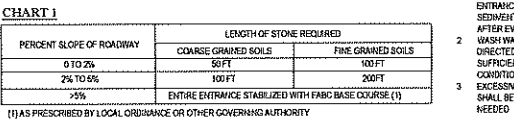


CHART 1

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COURSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200 FT
7%	ENTIRE ENTRANCE STABILIZED WITH FABO BASE COURSE (1)	

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY

CHART 2

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COURSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200 FT
7%	ENTIRE ENTRANCE STABILIZED WITH FABO BASE COURSE (1)	

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY

BOHLER ENGINEERING
 SITE CIVIL AND CONSULTING ENGINEERING
 LANDSCAPE ARCHITECTURE
 LAND SURVEYING
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 PERMITTING SERVICES
 TRANSPORTATION SERVICES

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SITE DEVELOPMENT PLANS
 FOR
HARBOR ONE Bank

LOCATION OF SITE:
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 & PORTIONS OF LOT #1A & 9
 751 PLAIN STREET
 TOWN OF MARSHFIELD
 PLYMOUTH COUNTY, MA

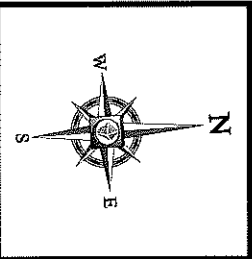
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MASSACHUSETTS PROFESSIONAL ENGINEER
 CIVIL
 No. 41697
 REGISTERED PROFESSIONAL ENGINEER

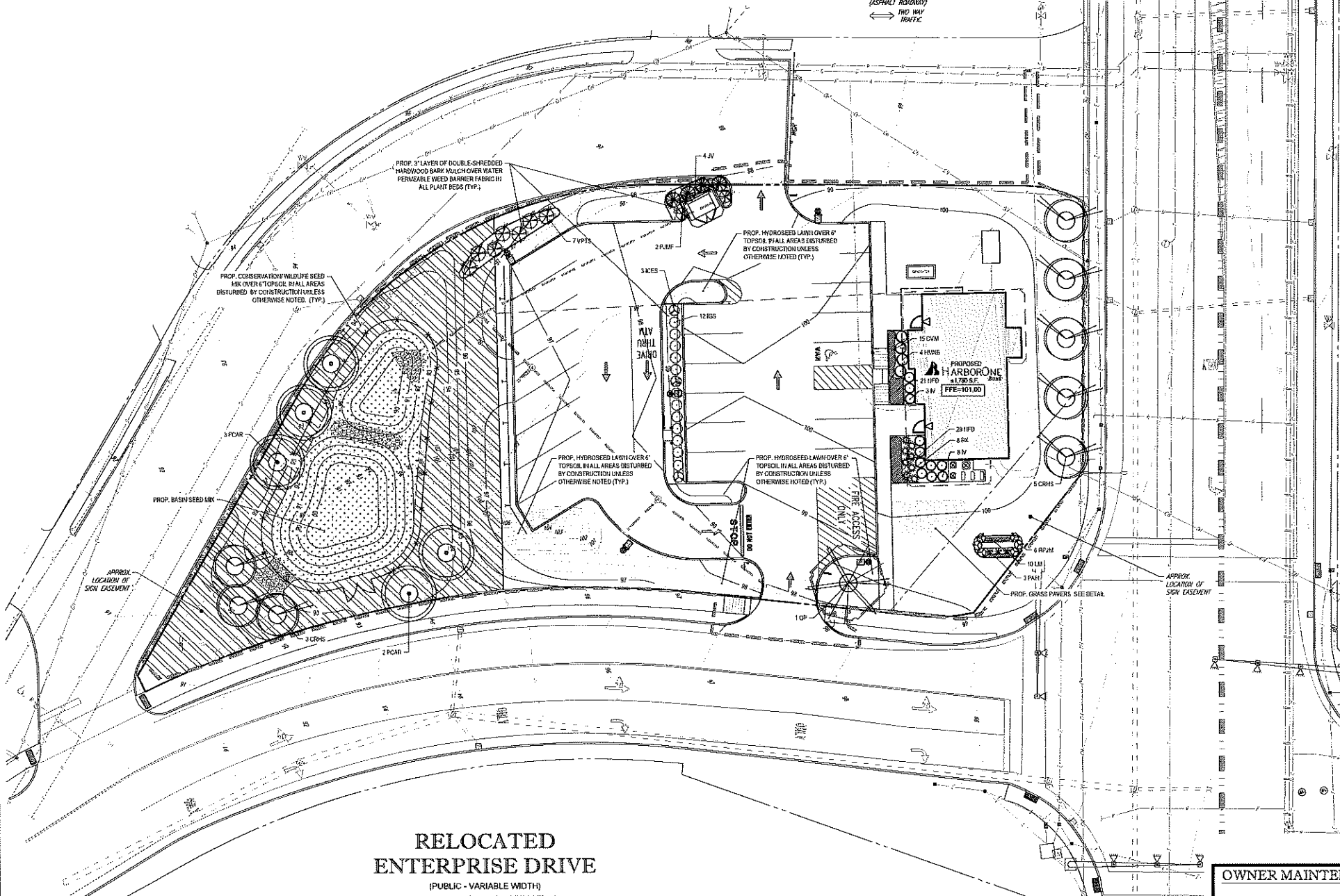
SOIL EROSION CONTROL NOTES & DETAILS SHEET
 SHEET NUMBER:
8
 OF 14

REV 4 - 03/03/2020

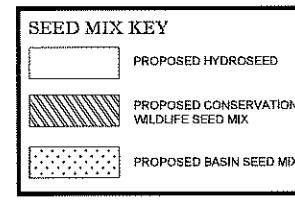
811
 Know what's below.
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ENTERPRISE DRIVE
(PUBLIC - 50' WIDE)
(PLAN BOOK 47, PAGE 742)
(ASPHALT ROADWAY)
← TWO WAY TRAFFIC



LANDSCAPE SCHEDULE					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
SHADE TREES					
PCAR	5	PARUS CALLERIANA VIRESCENS	ARISTOCRAT GALLERY PEAR	22 1/2" CAL.	B-8
QP	1	QUERCUS PALustris	PIN OAK	1 1/2" CAL.	B-8
SUBTOTAL	6				
ORNAMENTAL TREES					
CRIS	8	CORNIUS RUTOMYRIS	STELLAR PRUNUS GLOSSY LEAF HYBRID	22 1/2" CAL.	B-8
SUBTOTAL	8				
EVERGREEN TREES					
AI	4	ANISPERMUS VIRGIDIANA 'EMERALD SENTINEL'	'EMERALD SENTINEL' EASTERN RED CEDAR	8" CAL.	B-8
SUBTOTAL	4				
DECIDUOUS SHRUBS					
MBUD	4	HYDRANGEA MACROPHYLLA 'NICKO BLUE'	'NICKO BLUE' HORTENSIA HYDRANGEA	18-24"	CONTAINER
LI	11	ILEX VIRGINICA 'LITTLE HEAVY'	'LITTLE HEAVY' SWEET PINE	24-30"	CONTAINER
ER	6	ROSA RADRAZZ 'KNOCK OUT'	'KNOCK OUT' ROSE	24-30"	CONTAINER
VPIS	7	VIBURNUM PLICATUM 'TOURNEFORTIUM SHASTA'	'SHASTA' DOUBLE FILE VIBURNUM	30-36"	B-8
SUBTOTAL	28				
EVERGREEN SHRUBS					
ECES	3	ILEX CADNATA 'EXCELSA SCHWABEL'	'UPRIGHT HALLY' ECHOVEL	15-18"	B-8
BOG	12	ILEX GLABRA 'SMARAGD'	'SMARAGD' VIBERRY HOLLY	24-30"	B-8
PAVE	2	PENIS JAPONICA 'MOUNTAIN FIRE'	'MOUNTAIN FIRE' JAPANESE ANDROMEDA	30-36"	B-8
SPAI	6	PHODODENDRON CAROLINIANA 'P. AI'	'P. AI' PHODODENDRON	24-30"	B-8
SUBTOTAL	23				
PERENNIALS					
COVI	15	COREOPSIS VERTICILLATA 'VOONBEAN'	'VOONBEAN' COREOPSIS	2 GAL.	CONTAINER
LI	10	LIRIOPE KYUSAKI 'BIG BLUE'	'BIG BLUE' LIZYARD	1 PT.	CONTAINER
DRD	50	HEPETA 'FASSEN'S DROPPING'	'DROPPING' CAT TAIL	2 GAL.	CONTAINER
SUBTOTAL	75				
ORNAMENTAL GRASSES					
PAV	6	PENISETHM ALPEUCURONDES 'MAYFIELD'	'MAYFIELD' FOUR TAIL GRASS	2 GAL.	CONTAINER
SUBTOTAL	6				



BOHLER ENGINEERING
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

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REVISIONS			
REV.	DATE	COMMENT	BY
1	11/01/18	SUBMITTAL	MPD
2	11/27/19	REVISED PER TOWN COMMENTS	CFD
3	02/18/20	REVISED PER TOWN COMMENTS	MPD
4	03/03/20	REVISED PER TOWN COMMENTS	CFD
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PERMIT SET

PROJECT NO. W18131 MPD
DRAWN BY: RMM
CHECKED BY: AS NOTED
DATE: 08/28/2019
SCALE: AS NOTED
CAD/LD: W18131SS4, LANDSCAPE

PROJECT: SITE DEVELOPMENT PLANS FOR

HARBOROne Bank

LOCATION OF SITE:
MAP #D10, BLOCK #3, LOTS #10, 11 & PORTIONS OF LOT #1A & B
751 PLAIN STREET
TOWN OF MARSHFIELD
PLYMOUTH COUNTY, MA

BOHLER ENGINEERING

352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
Fax: (508) 480-9080
www.BohlerEngineering.com



SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
9
OF 14

REV 4 - 03/03/2020

RELOCATED ENTERPRISE DRIVE
(PUBLIC - VARIABLE WIDTH)
(2011 STATE HIGHWAY ALTERATION)
(LAYOUT NO. 8131)
(ASPHALT ROADWAY)
← TWO WAY TRAFFIC

811
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OWNER MAINTENANCE RESPONSIBILITIES

UPON OWNER'S (OR OTHER CONTRACTOR'S) COMPLETION OF LANDSCAPE WORK, THE OWNER IS FULLY RESPONSIBLE FOR ALL FUTURE MAINTENANCE, CARE, UPRIGHT STANDING, AND THINNING OF ALL INSTALLED VEGETATION, PLANTS, TREES, SHRUBS, GRASSES, GRASS, ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, GROUND COVER, AND LANDSCAPING, INCLUDING ALL LANDSCAPE ISLANDS AND AREAS ADJACENT OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

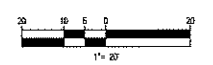
- TREES ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY BRANCHES MUST BE TRIMMED UP TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PEDESTRIAN SURFACES) OR PRUNED BACK TO AVOID ANY INTERFERENCE WITH THE TYPICAL PATH OF TRAVEL.
- TREES WITH VEHICULAR TRAFFIC LEVELS, AS ILLUSTRATED ON THE LANDSCAPE PLAN, ARE TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND GRASSES MUST BE TRIMMED SO THAT NO PORTION OF THE PLANT EXCEEDS 30 INCHES ABOVE GRADE (OR ALL PAVED, TRAVELED SURFACES) ALONG AND WITHIN THE RIGHT LINES OF PARKING LOTS AND HIGHWAY-ADJACENT AREAS.
- FALLEN PLANT FLOWERS, FRUIT, SEEDS AND DEBRIS DROPPINGS ARE TO BE REMOVED IMMEDIATELY FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARD.

THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEES THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE.

CONTRACTOR TO USE ORGANIC FERTILIZER ONLY

THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

REFER LANDSCAPE NOTES & DETAILS SHEET FOR LANDSCAPE NOTES AND DETAILS



DATE PLOTTED: 11/19/2020 10:54:00 AM; PLOTTER: HP DesignJet T1100; PLOT SCALE: 1/8"=1'-0"; PLOT SHEET: 9 OF 14

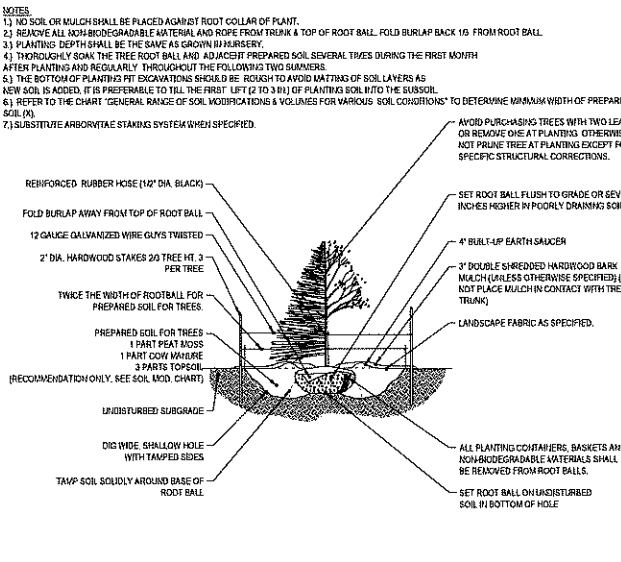
LANDSCAPE SPECIFICATIONS

- 1. SCOPE OF WORK
1.1. THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SOILING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT. UNLESS OTHERWISE SPECIFIED BY THE GENERAL CONTRACTOR.
2. MATERIALS
2.1. GENERAL - ALL LANDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATIONS SPECIFICATIONS.
2.2. TOPSOIL - NATURAL, FRIABLE, LOAMY, SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 0.4% RANGING BETWEEN 4.5:1 TO 1:1 SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1") DIAMETER, WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
2.3. LAWN - ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM 1/2" THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEED OR SOILED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED ON THE LANDSCAPE PLAN.
2.3.1. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.
2.3.2. SOIL SHALL BE STRONGLY ROOTED, WEED AND DISEASE FREE WITH A UNIFORM THICKNESS. SOIL INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PROTECTED TO HOLD SOIL IN PLACE.
2.4. MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH 2" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN AND/OR LANDSCAPE PLAN NOTES DETAILS.
2.5. FERTILIZER
2.5.1. FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED BY THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
2.5.2. FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE ORGANIC IN NATURE. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.
2.6. PLANT MATERIAL
2.6.1. ALL PLANTS SHALL MEET ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1) LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN).
2.6.2. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
2.6.3. PLANTS SHALL BE LEGITIMATELY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
2.6.4. TREES WITH BRANCHES OF THE BARK, SUN SCALD, DISCOLORATION OR FRESH CUTS OF LIMBS OVER 1/4" WHICH HAVE NOT BEEN COMPLETELY CALLED SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
2.6.5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE NORMAL HABIT OF GROWTH, WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
2.6.6. CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") BY CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.
2.6.7. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
2.6.8. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.

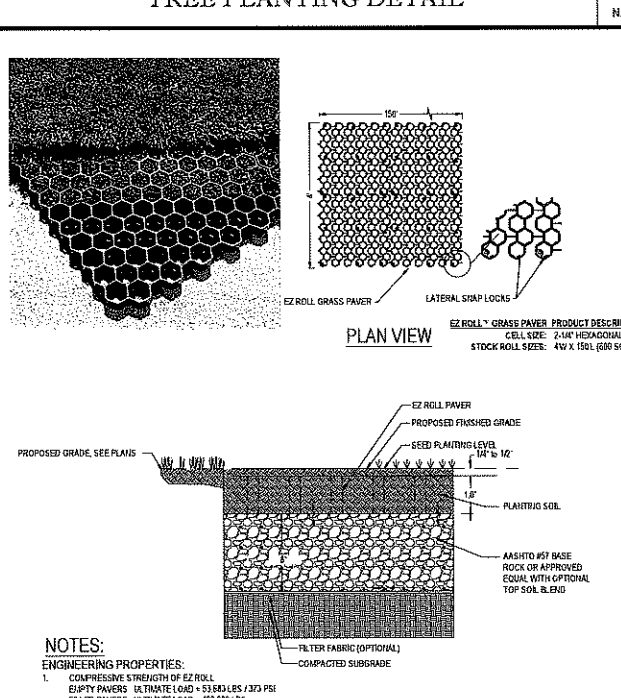
- 3. GENERAL WORK PROCEDURES
3.1. CONTRACTOR TO UPHOLD WORKMANSHIP INDUSTRY STANDARDS BY PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH DAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
3.2. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
4. SITE PREPARATIONS
4.1. BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN.
4.2. ALL EXISTING TREES TO REMAIN SHALL BE PROVIDED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS, AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
4.3. CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.
5. TREE PROTECTION
5.1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DMP LANE OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
5.2. A FORTY-FOUR (48) INCH (4 FT) HIGH WOODEN SMOKE FENCE OR ORANGE COLORED HIGH DENSITY VISIFENCE, OR APPROVED EQUIV. MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8 FT) ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION ZONE.
5.3. WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
5.4. AT NO TIME SHALL MACHINERY, DEBRIS, FUEL TANKS OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.
6. SOIL MODIFICATIONS
6.1. CONTRACTOR SHALL ATTEMPT TO TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
6.2. LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY BE USED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
6.3. THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
6.3.1. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6" TO 12". USE COMPOSTED BARK, COMPOSTED LEAF LIME OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
6.3.2. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRI-CUL-TURAL CYRUSL COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 65% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY BE ADDED TO INCREASE DRAINAGE.
6.3.3. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

- 7. FINISHED GRADING
7.1. UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
7.2. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (14").
7.3. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
7.4. ALL PLANTING AREAS SHALL BE GRABBED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. GRABBING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
8. TOPSOILING
8.1. CONTRACTOR SHALL PROVIDE A 6" THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
8.2. ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
8.3. CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
8.4. ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY) (SEE SPECIFICATION 8.4.1)
8.4.1. 20 POUNDS GRO-Power OR APPROVED SOIL CONDITIONER/FERTILIZER
8.4.2. 20 POUNDS NTR-O-Form (SOURCE) 38-0-0 BLUE CDF OR APPROVED NITROGEN FERTILIZER

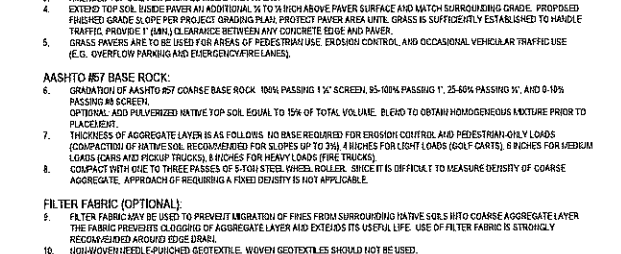
- 8.5. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MOIST OR FROZEN CONDITIONS.
9. PLANTING
9.1. INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNPLANTED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEADED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
9.2. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SATISFACTORIAL AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.
9.3. ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
9.4. ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED UNDER AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
9.5. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING FITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
9.6. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS: THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS:
9.6.1. PLANTS: MARCH 15 TO DECEMBER 15
9.6.2. LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1
9.6.3. PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY MUST BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.
9.7. FURTHERMORE, THE FOLLOWING TREE SPECIES ARE USUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON:
9.7.1. ACER VARIETIES
9.7.2. BETULA VARIETIES
9.7.3. CARPINUS VARIETIES
9.7.4. CRATAEGUS VARIETIES
9.7.5. KYRULINDIA VARIETIES
9.7.6. LIQUIDAMBAR STYRACIFLUA
9.7.7. LIRIODENDRON TULIPIFERA
9.7.8. PLATANUS X ACERIFOLIA
9.7.9. LORNOLIA VARIETIES
9.7.10. PRUNUS VARIETIES
9.7.11. QUERCUS VARIETIES
9.7.12. TILIA TOMENTOSA
9.7.13. ZELKOVA VARIETIES
9.8. PLANTING FITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT FIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING UNDISTURBED SOIL MIXED THOROUGHLY:
9.8.1. 1 PART PEAT MOSS
9.8.2. 1 PART COMPOSTED COW MANURE BY VOLUME
9.8.3. 3 PARTS TOPSOIL BY VOLUME
9.8.4. 21 GRAMS AGRI-GRIC PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:
9.8.4.1. 2 TABLETS PER 1 GALLON PLANT
9.8.4.2. 4 TABLETS PER 5 GALLON PLANT
9.8.4.3. 1 TABLET PER 1/2 GALLON PLANT
9.8.4.4. LARGER PLANTS: 2 TABLETS PER 1/4" CALIPER OF TRUNK
9.9. FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.
9.10. IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEADED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, DRYING AND WIND.
9.11. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
9.12. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
9.13. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
9.14. FERTILIZERS: THE SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED BY HAND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.
10. TRANSPLANTS (WHEN REQUIRED)
10.1. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.
10.2. IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEADED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, DRYING AND WIND.
10.3. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
10.4. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
10.5. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
10.6. FERTILIZERS: THE SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED BY HAND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.
11. WATERING
11.1. NEW PLANTINGS ON LAWN AREAS SHALL BE ADEQUATELY WATERED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.
11.2. SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BASS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.
11.3. IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VEGGINGS, HEAD TYP. GROWTH.
12. GUARANTEE
12.1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF 1 YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OTHER WITH MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
12.2. ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE PRESET SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.
12.3. TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.
12.4. LAWNS SHALL BE MAINTAINED THROUGHOUT WATERING, FERTILIZING, WEEDING, MOWING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF TREES OR BARE AREAS.
13. CLEANUP
13.1. UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL LINGERED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
13.2. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
14. MAINTENANCE (ALTERATIVE BID)
14.1. A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD DURING TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPE HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED, THE OPERATOR/OWNER MAY REQUEST THAT BIDDERS SUBMIT AN ALTERNATE MAINTENANCE BID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL OCCUPY ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MAINTAINED, TO THE APPROVAL OF THE OWNER/OPERATOR.



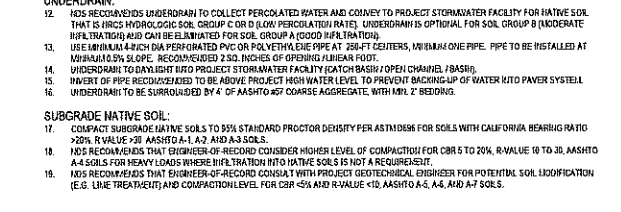
TREE PLANTING DETAIL N.T.S.



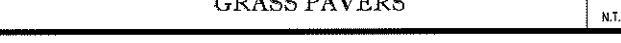
SHRUB PLANTING DETAIL N.T.S.



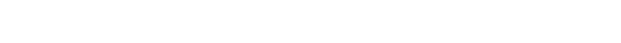
BIOBARRIER ROOT BARRIER DETAIL N.T.S.



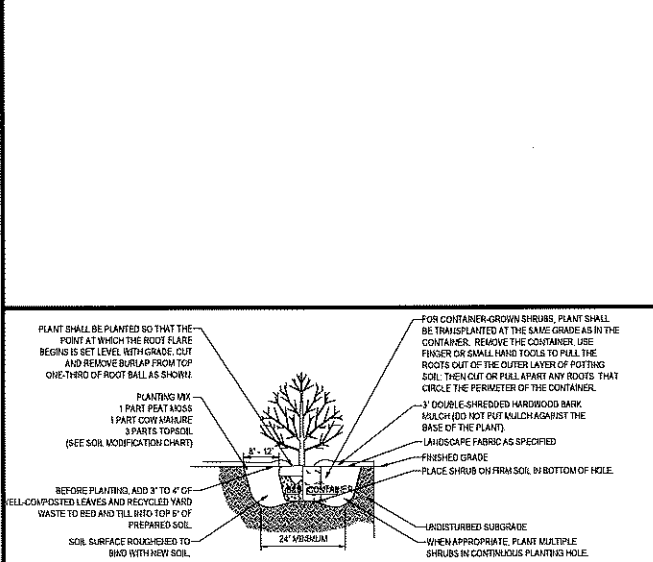
TREE PLANTING DETAIL - ON SLOPE N.T.S.



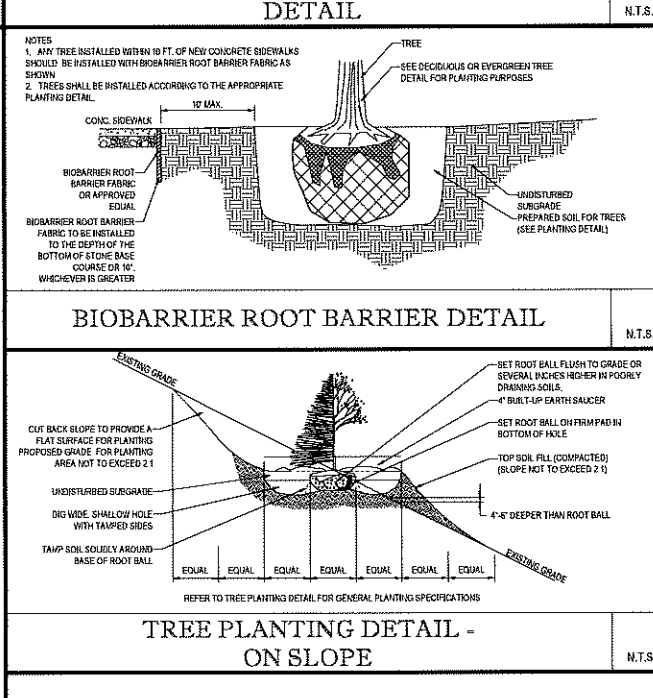
HYDROSEED SPECIFICATIONS



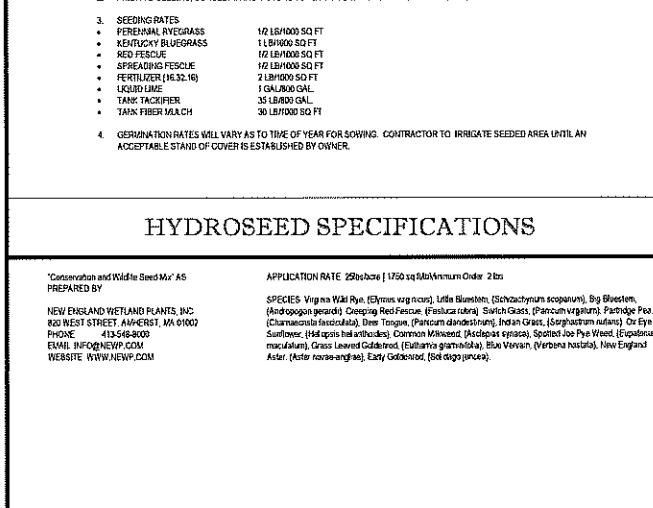
GRASS PAVERS N.T.S.



GROUND COVER PLANTING N.T.S.



DETENTION BASIN SEED MIX SPECIFICATIONS



CONSERVATION/WILDLIFE SEED MIX SPECIFICATIONS



LANDSCAPE NOTES & DETAILS SHEET

BOHLER ENGINEERING logo and contact information.

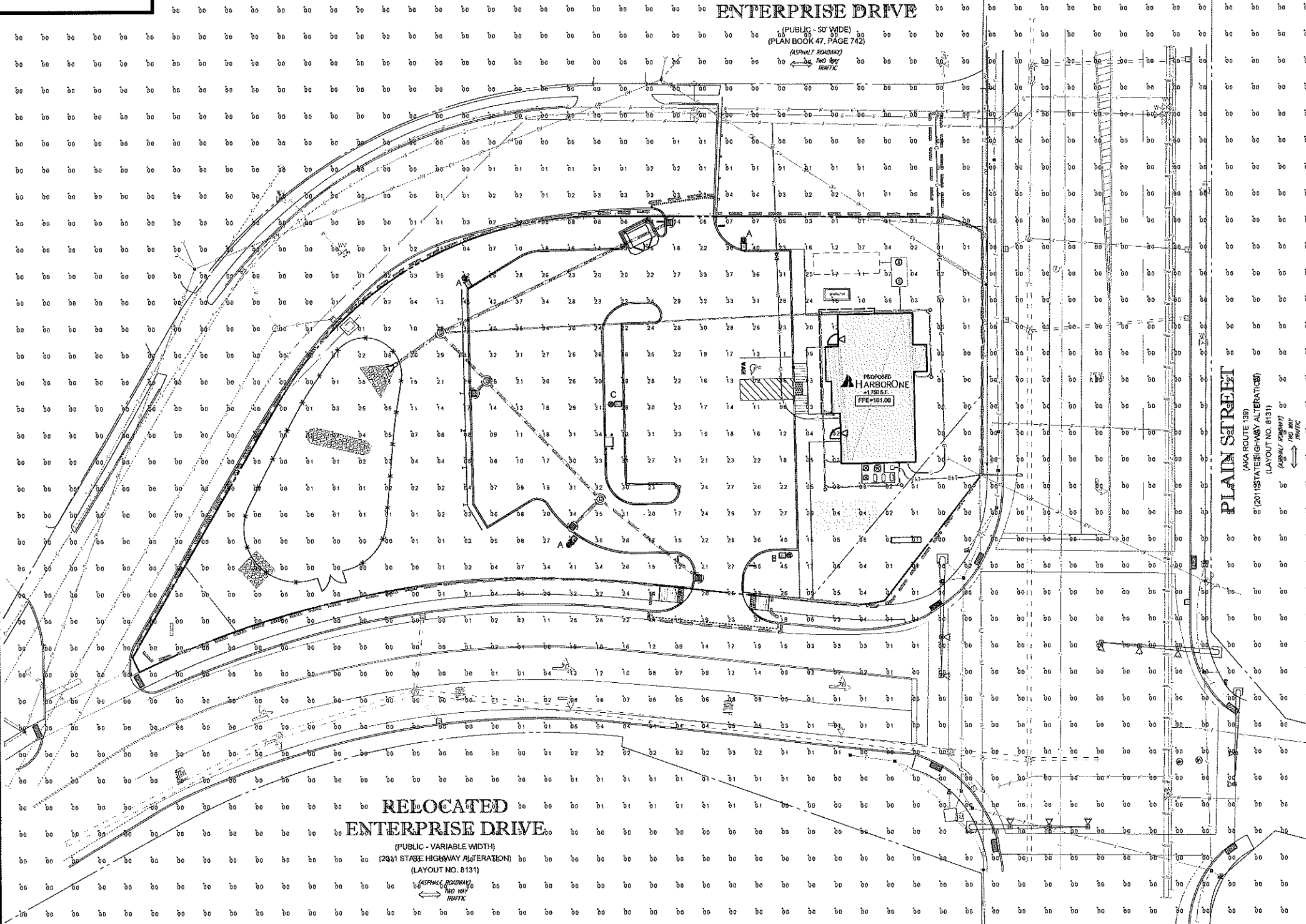
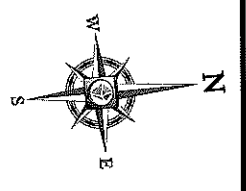
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PERMIT SET section with project location and drawing details.

BOHLER ENGINEERING logo and contact information.

Professional Engineer Seal for Jeffrey A. Bohlert, No. 10123, State of Massachusetts.

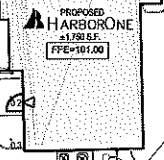
LANDSCAPE NOTES & DETAILS SHEET SHEET NUMBER: 10 OF 14. REV 4 - 03/03/2020



ENTERPRISE DRIVE
(PUBLIC - 50' WDE)
(PLAN BOOK 47, PAGE 742)
(ASPHALT ROADWAY)
← 36' TWO WAY TRAFFIC

RELOCATED ENTERPRISE DRIVE
(PUBLIC - VARIABLE WIDTH)
(2011 STAGE HIGHWAY ALTERNATION)
(LAYOUT NO. 8131)
(ASPHALT ROADWAY)
← 36' TWO WAY TRAFFIC

PLAIN STREET
(MA ROUTE 139)
(2011 STAGE HIGHWAY ALTERNATION)
(LAYOUT NO. 8131)
(ASPHALT ROADWAY)
← 36' TWO WAY TRAFFIC



LIGHTING NOTES:

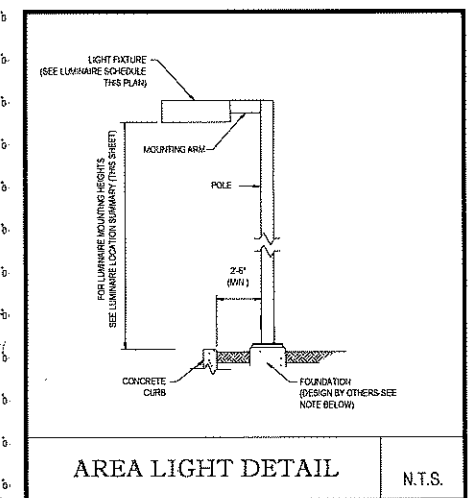
- THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURERS' ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.90 FOR ALL LED LUMINAIRES, 0.80 FOR ALL HIGH PRESSURE SODIUM LUMINAIRES OR 0.72 FOR ALL METAL HALIDE LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.
- THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOT CANDLES.
- THE LUMINAIRE, LAMP AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND REPAIRS (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINAIRE, LAMP AND LENSES TO FAIL PROPERLY TO FUNCTION.
- WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE CONSEQUENTLY APPROXIMATIONS ONLY. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC. ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.
- THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRE, ONLY. POWER SYSTEM CONFIGURATIONS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. LIGHT POLE BASIS ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.
- CONTRACTOR MUST BRING TO DESIGNERS ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
- IT IS LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING THE POWER SOURCES (FROM WITHIN THE BUILDING, AND TAPPING DEVICES NECESSARY TO MEET THE DESIGN INTENT).
- THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO, GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL GOVERNMENTAL RULES, LAWS, ORDINANCES, REGULATIONS AND THE LIFE.
- THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR SEPARATION FROM OVERHEAD ELECTRICAL WIRES PER STATE REGULATIONS.
- WHEN A BANK ATM IS INCLUDED IN THE PLAN, THE LIGHTING DESIGN REPRESENTS BOHLER'S UNDERSTANDING AND INTERPRETATION OF THE REGULATORY LIGHTING LEVELS INTENDED BY PUBLISHED STANDARDS.
- UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.

NUMERIC SUMMARY

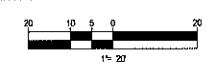
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LUMINAIRE SCHEDULE

SYMBOL	QTY	ARRANGEMENT	LUMENS	LLF	DESCRIPTION
⊠ A	3	SINGLE	14,457	0.90	D-SERIES SIZE 1 TYPE III LED AREA LUMINAIRE WITH SHIELD DSX1-LED-P4-40K-T3M-ANGLT-HS MOUNTED @ 20'
⊠ B	1	SINGLE	14,457	0.90	D-SERIES SIZE 1 TYPE III LED AREA LUMINAIRE DSX1-LED-P4-40K-T3M-ANGLT MOUNTED @ 20'
⊠ C	1	SINGLE	15,042	0.90	D-SERIES SIZE 1 TYPE V LED AREA LUMINAIRE DSX1-LED-P4-40K-T3M-ANGLT MOUNTED @ 20'



THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY



BOHLER ENGINEERING
SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

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REVISIONS

REV	DATE	COMMENT	BY
1	11/01/19	SITE PLAN REVIEW SUBMITTAL	NPD
2	11/27/19	REVISED PER TOWN COMMENTS	CFD
3	02/18/20	REVISED PER TOWN COMMENTS	NPD
4	03/03/20	REVISED PER TOWN COMMENTS	CFD
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PERMIT SET

PROJECT NO.: W181131
DRAWN BY: NPD
CHECKED BY: RMM
DATE: 08/20/2019
SCALE: AS NOTED
CAD ID: W181131S54

SITE DEVELOPMENT PLANS

FOR

HARBORONE Bank

LOCATION OF SITE:
MAP #D10, BLOCK #3, LOTS #10, 11 & PORTIONS OF LOT #1A & 9
751 PLAIN STREET
TOWN OF MARSHFIELD
PLYMOUTH COUNTY, MA

BOHLER ENGINEERING

352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 488-9800
Fax: (508) 488-9890
www.BohlerEngineering.com

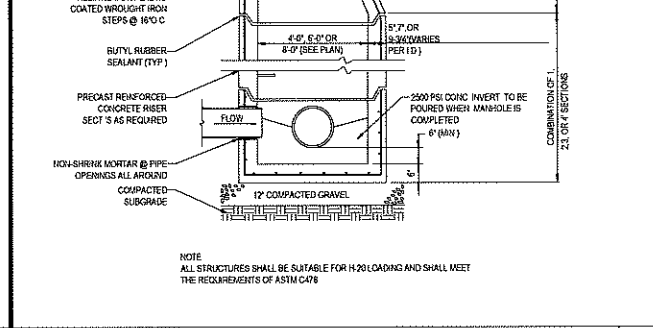
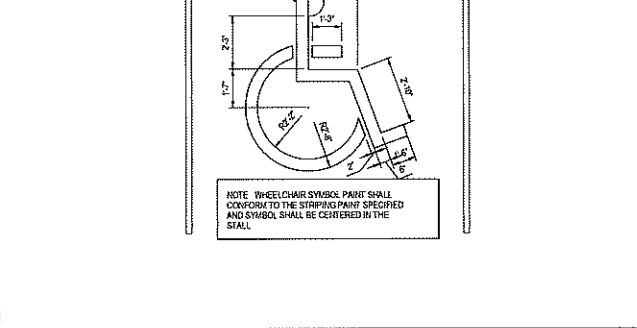
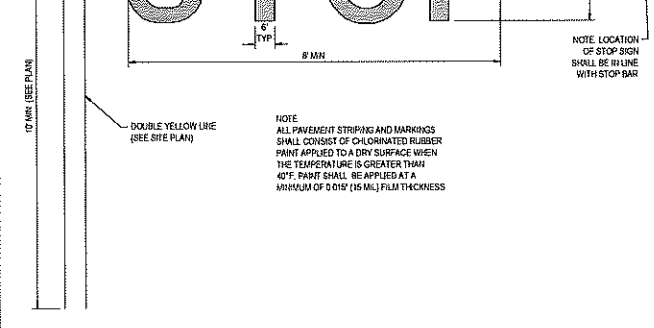
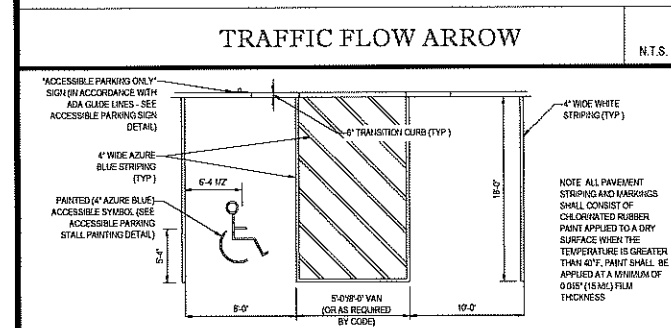
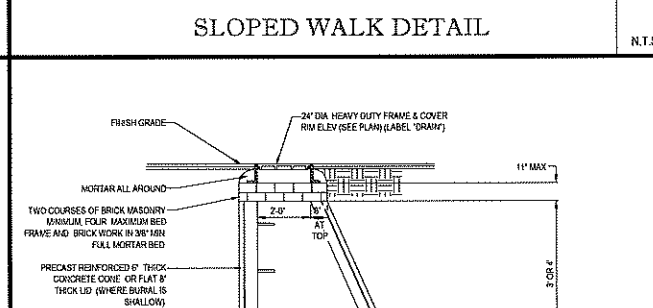
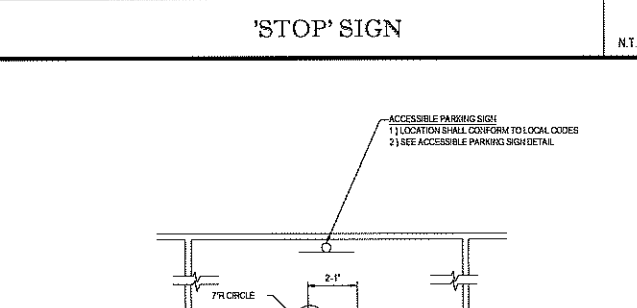
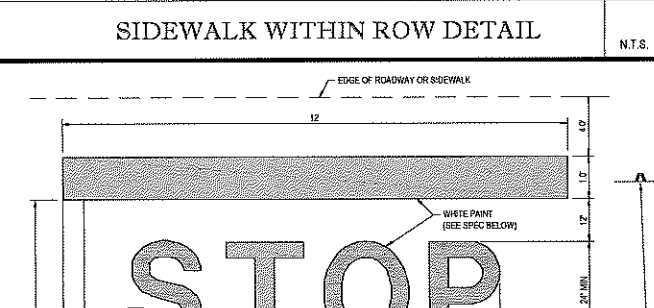
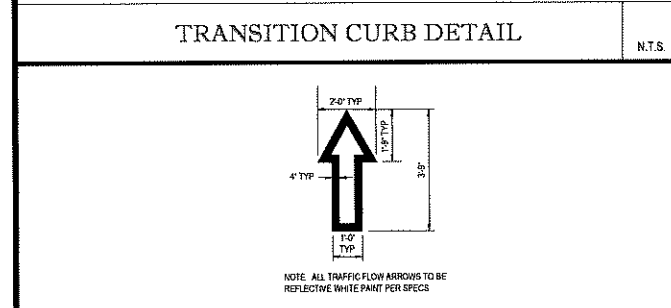
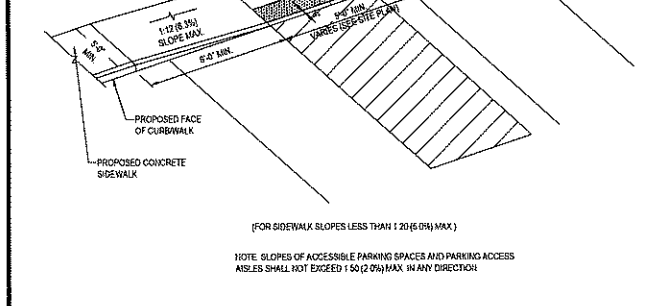
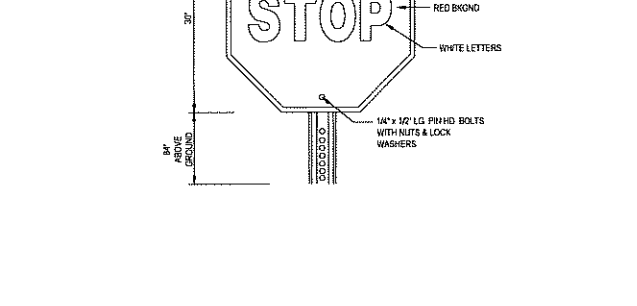
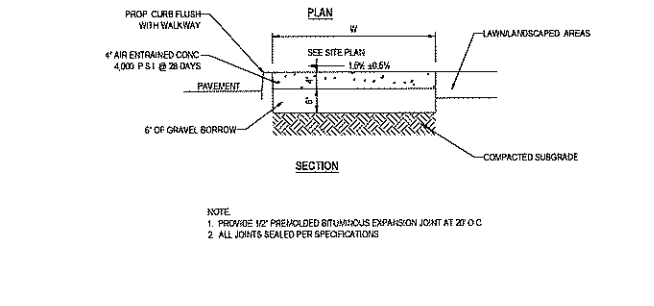
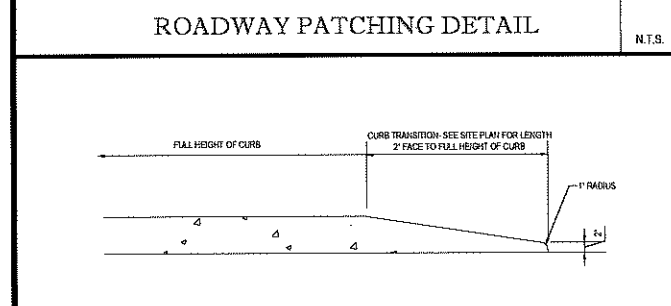
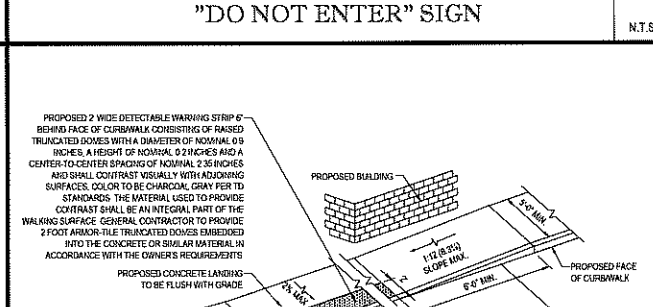
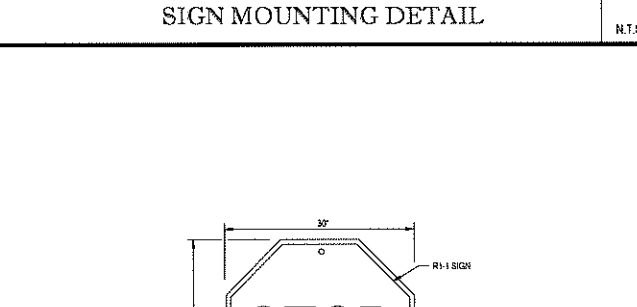
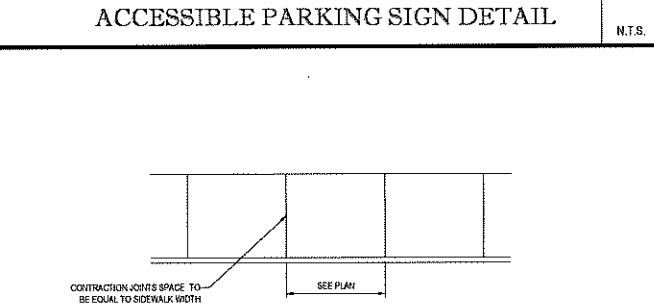
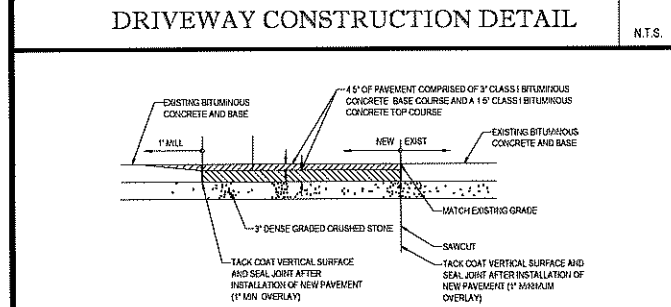
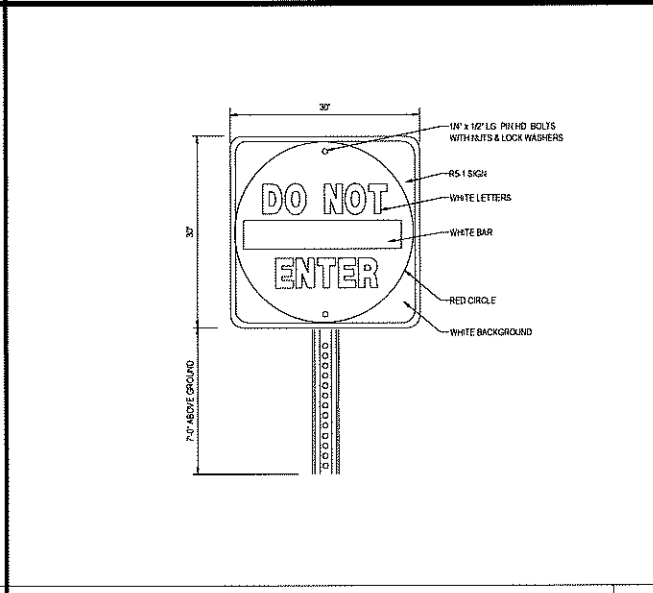
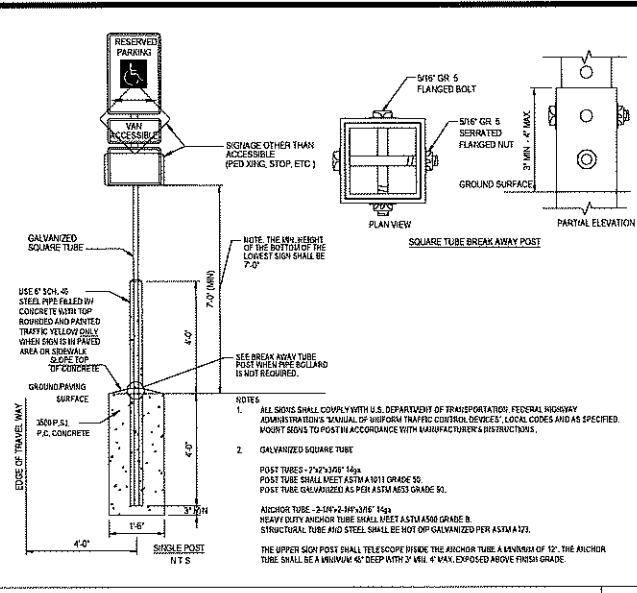
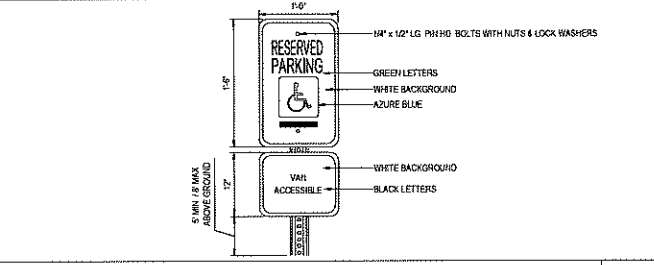
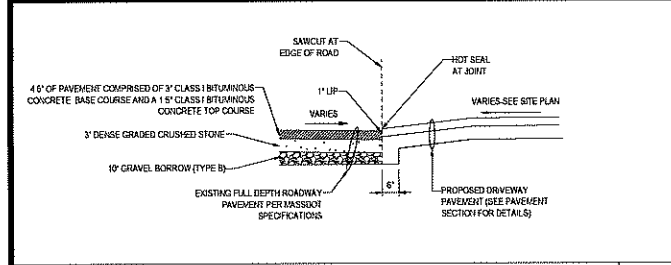
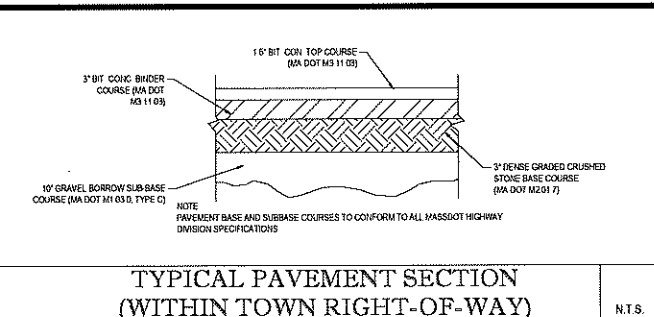
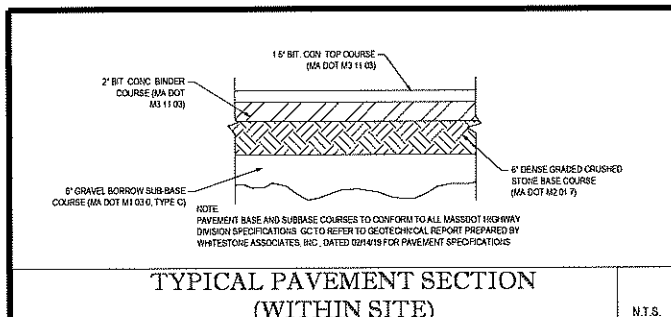


SHEET TITLE:
LIGHTING PLAN

SHEET NUMBER:
11
OF 14

REV 4 - 03/03/2020

811
Know what's below.
Call before you dig.



TYPICAL PAVEMENT SECTION (WITHIN SITE) N.T.S.

TYPICAL PAVEMENT SECTION (WITHIN TOWN RIGHT-OF-WAY) N.T.S.

DRIVEWAY CONSTRUCTION DETAIL N.T.S.

ACCESSIBLE PARKING SIGN DETAIL N.T.S.

ROADWAY PATCHING DETAIL N.T.S.

SIDEWALK WITHIN ROW DETAIL N.T.S.

'STOP' SIGN N.T.S.

'DO NOT ENTER' SIGN N.T.S.

TRANSITION CURB DETAIL N.T.S.

'STOP' BAR DETAIL N.T.S.

ACCESSIBLE PARKING STALL PAINTING DETAIL N.T.S.

SLOPED WALK DETAIL N.T.S.

TRAFFIC FLOW ARROW N.T.S.

ACCESSIBLE STALL MARKINGS & PARKING LOT STRIPING DETAIL N.T.S.

ACCESSIBLE PARKING SIGN MOUNTING DETAIL N.T.S.

'STOP' SIGN N.T.S.

TRANSITION CURB DETAIL N.T.S.

'STOP' BAR DETAIL N.T.S.

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ACCESSIBLE PARKING SIGN MOUNTING DETAIL N.T.S.

'STOP' SIGN N.T.S.

BOHLER ENGINEERING
 SITE CIVIL AND CONSULTING ENGINEERING
 LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

THE PROFESSIONAL DESIGN AND CONSTRUCTION OF THIS PROJECT HAS BEEN REVIEWED AND APPROVED BY THE STATE OF MASSACHUSETTS. THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION AND THE MASSACHUSETTS DEPARTMENT OF CONSTRUCTION SERVICES.

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REVISONS			
REV	DATE	COMMENT	BY
1	11/01/18	SITE PLAN REVIEW SUBMITTAL	NPD
2	11/27/19	REVISED PER TOWN COMMENTS	CFD
3	02/18/20	REVISED PER TOWN COMMENTS	NPD
4	03/03/20	REVISED PER TOWN COMMENTS	CFD
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PERMIT SET

PROJECT NO: W181131
 DRAWN BY: NPD
 CHECKED BY: RMM
 DATE: 02/22/20
 SCALE: AS NOTED
 CAD/D: W181131S4

SITE DEVELOPMENT PLANS

FOR

HARBORONE Bank

LOCATION OF SITE:
 MAP #10, BLOCK #3, LOTS #10, 11
 & PORTIONS OF LOT #1A & 9
 751 PLAIN STREET
 TOWN OF MARSHFIELD,
 PLYMOUTH COUNTY, MA

BOHLER ENGINEERING

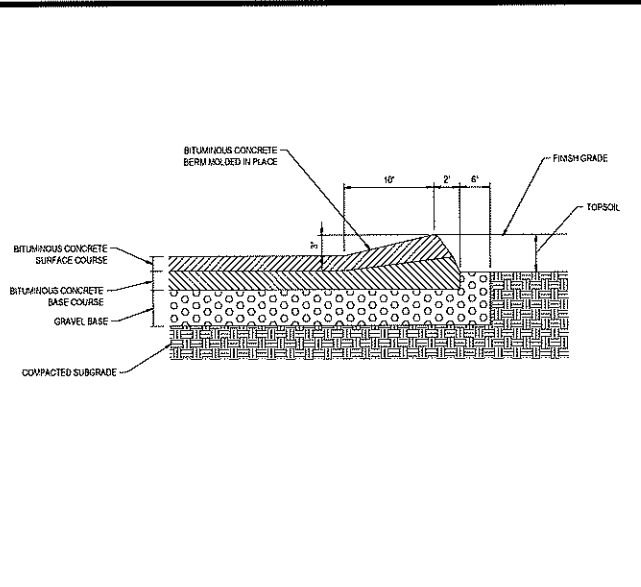
352 TURNPIKE ROAD
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 Fax: (508) 485-9080
 www.BohlerEngineering.com

MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER
 CIVIL No. 41697

SHEET TITLE:
CONSTRUCTION DETAIL SHEET

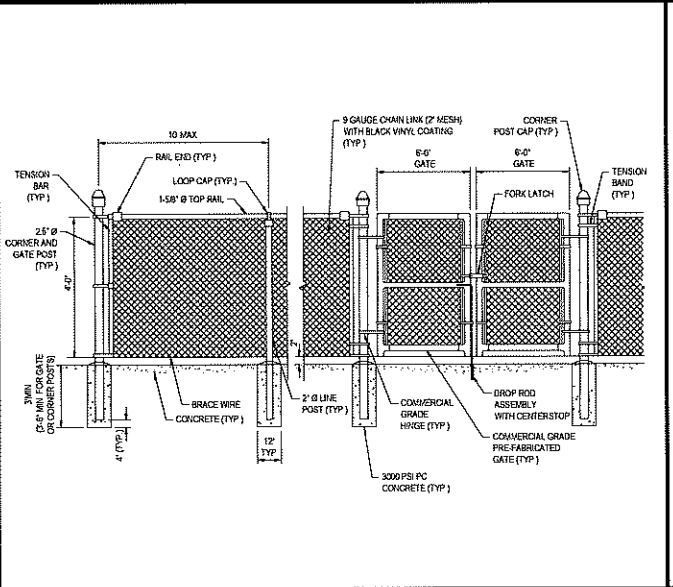
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12
 OF 14

REV 4 - 03/03/2020



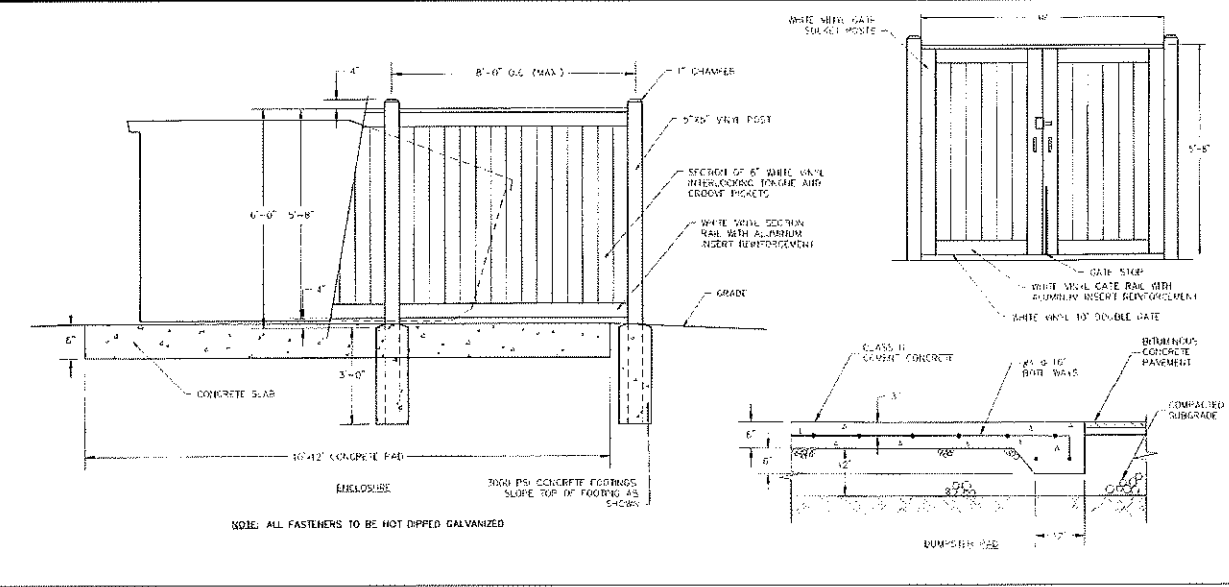
CAPE COD BERM

N.T.S.



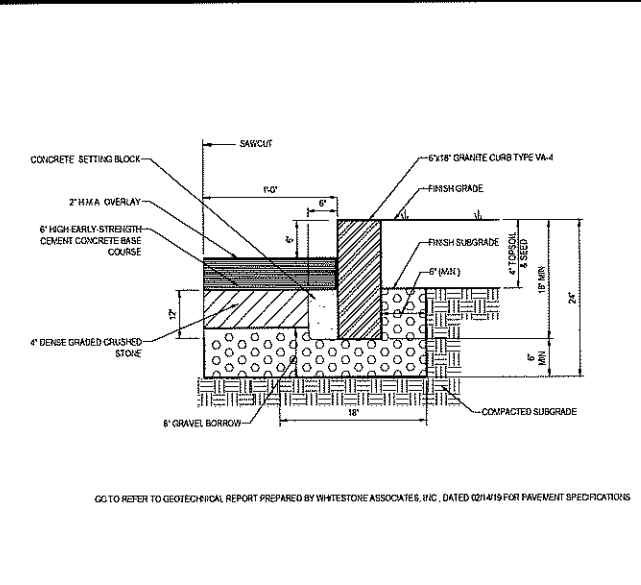
BLACK VINYL CHAIN LINK FENCE WITH DOUBLE GATE

N.T.S.



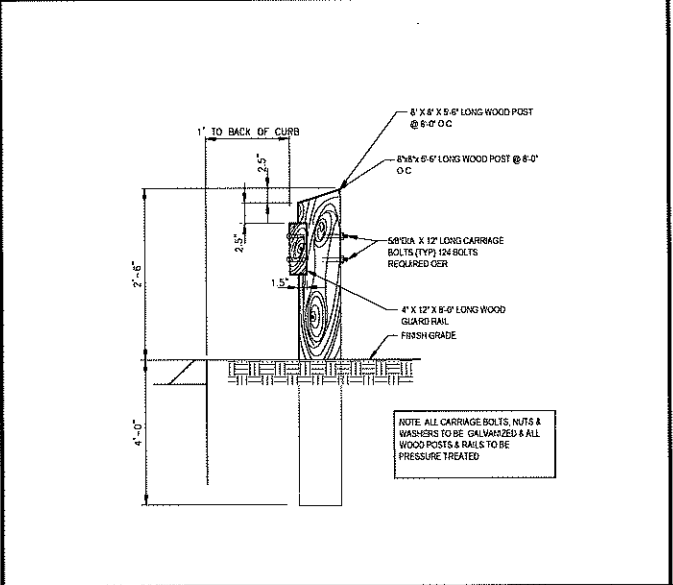
DUMPSTER ENCLOSURE & PAD

N.T.S.



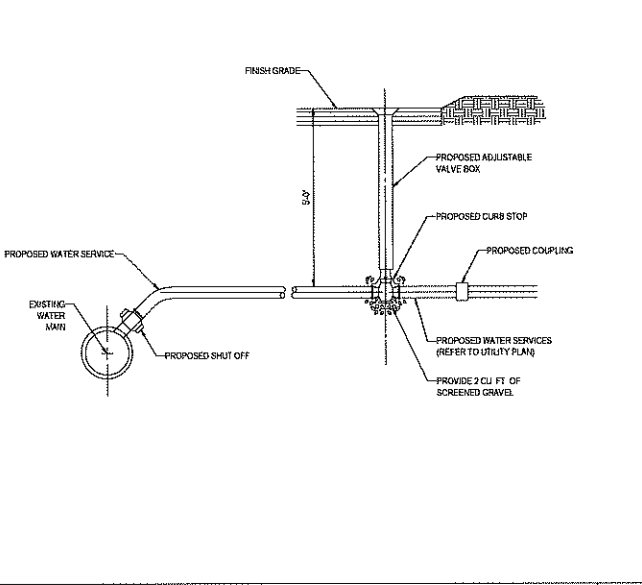
VERTICAL GRANITE CURB DETAIL

N.T.S.



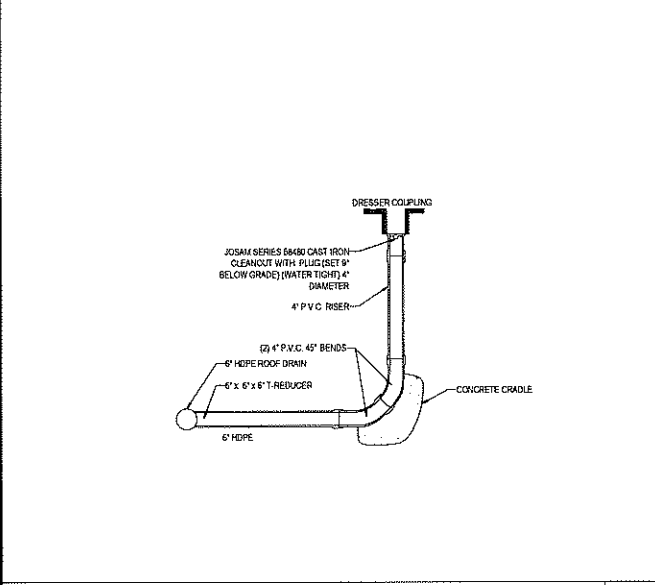
WOOD GUIDERAIL DETAIL

N.T.S.



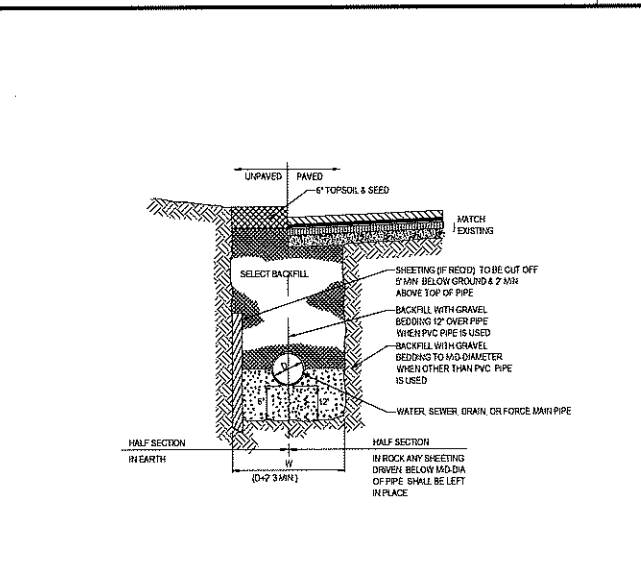
SERVICE CONNECTION DETAIL

N.T.S.



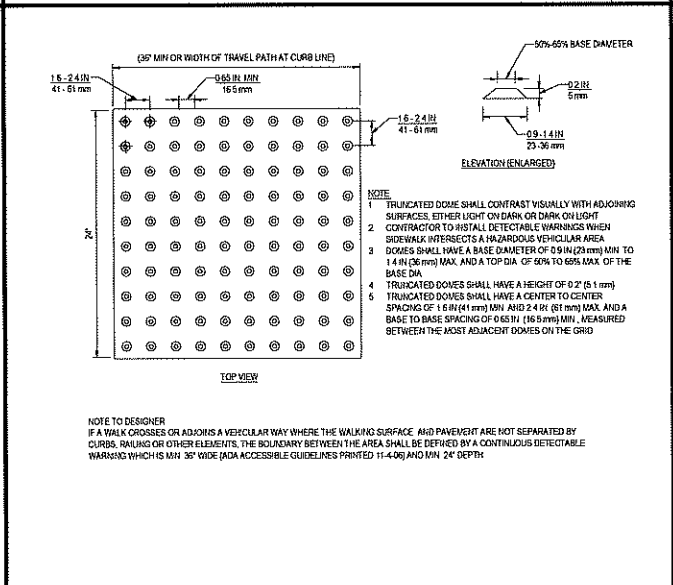
CLEANOUT DETAIL

N.T.S.



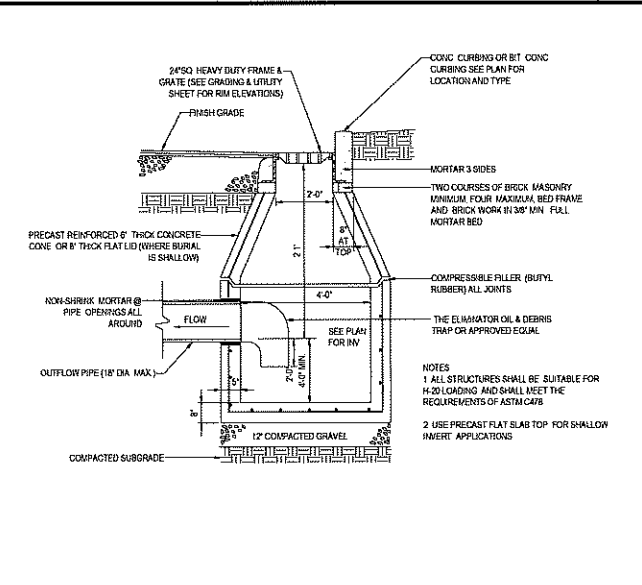
TYPICAL UTILITY TRENCH

N.T.S.



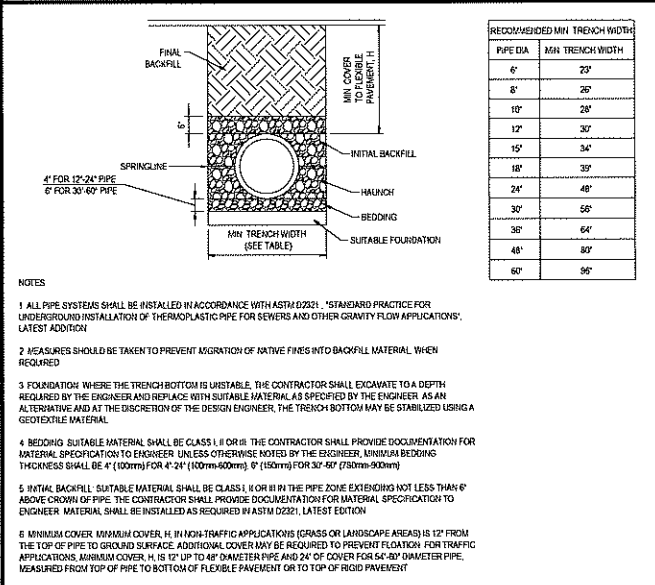
TRUNCATED DOME PATTERN

N.T.S.



PRECAST CONCRETE DEEP SUMP CATCH BASIN DETAIL

N.T.S.



HDPE STORM DRAINAGE TRENCH

N.T.S.

BOHLER ENGINEERING
 SITE CIVIL AND CONSULTING ENGINEERING
 LAND SURVEYING PROGRAM MANAGER
 SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

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REVISIONS

REV	DATE	COMMENT	BY
1	11/01/19	SITE PLAN REVIEW SUBMITTAL	NPD
2	11/23/19	REVISED PER TOWN COMMENTS	CFD
3	02/19/20	REVISED PER TOWN COMMENTS	NPD
4	03/03/20	REVISED PER TOWN COMMENTS	CFD
5			
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10			
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12			
13			
14			
15			

PERMIT SET

PROJECT NO.: W181131
 DRAWN BY: NPD
 CHECKED BY: RMM
 DATE: 08/26/2019
 SCALE: AS NOTED
 CAD I.D.: W181131/84

SITE DEVELOPMENT PLANS FOR

HARBOR ONE Bank

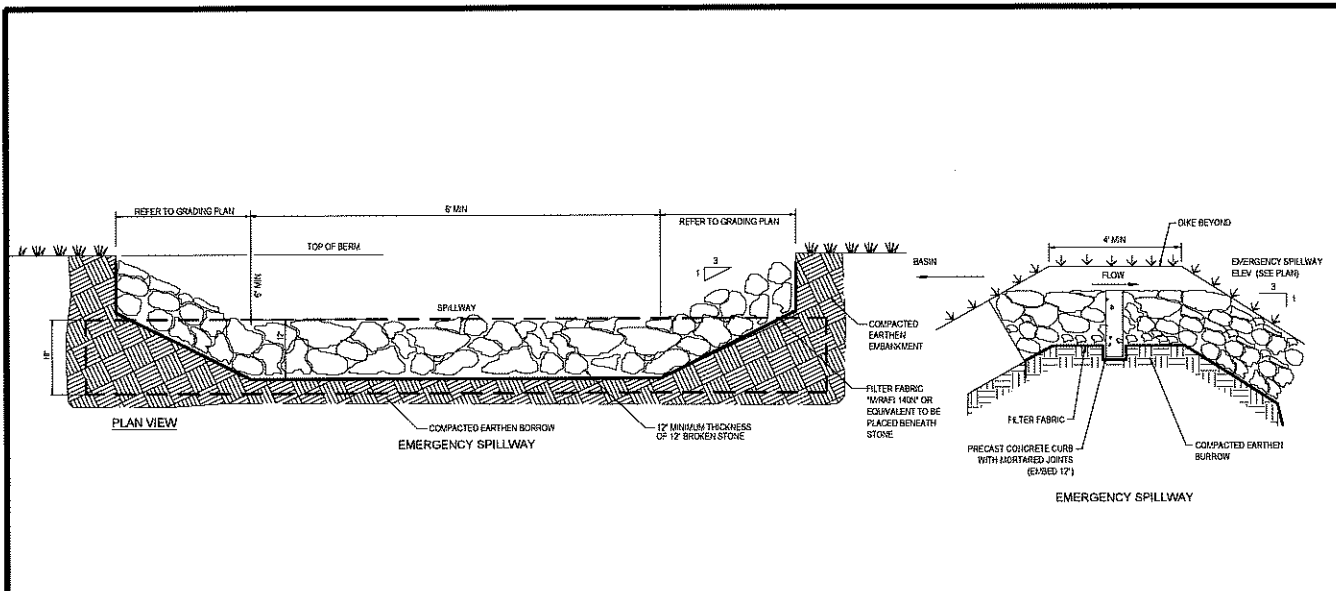
LOCATION OF SITE:
 MAP #10, BLOCK #3, LOTS #10, 11 & PORTIONS OF LOT #1A & 9
 751 PLAIN STREET
 TOWN OF MARSHFIELD
 PLYMOUTH COUNTY, MA

BOHLER ENGINEERING
 352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900
 Fax: (508) 480-9900
 www.BohlerEngineering.com

REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 No. 41667
 EXPIRES 12/31/2021

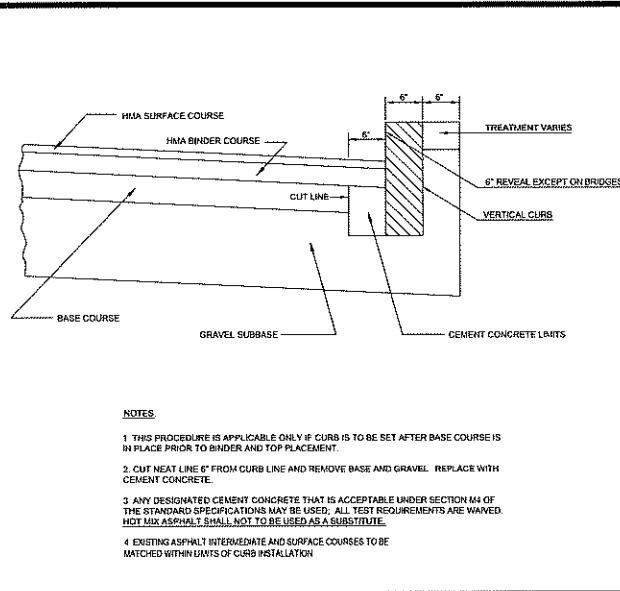
SHEET TITLE:
CONSTRUCTION DETAIL SHEET
 SHEET NUMBER:
13
 OF 14
 REV 4 - 03/03/2020

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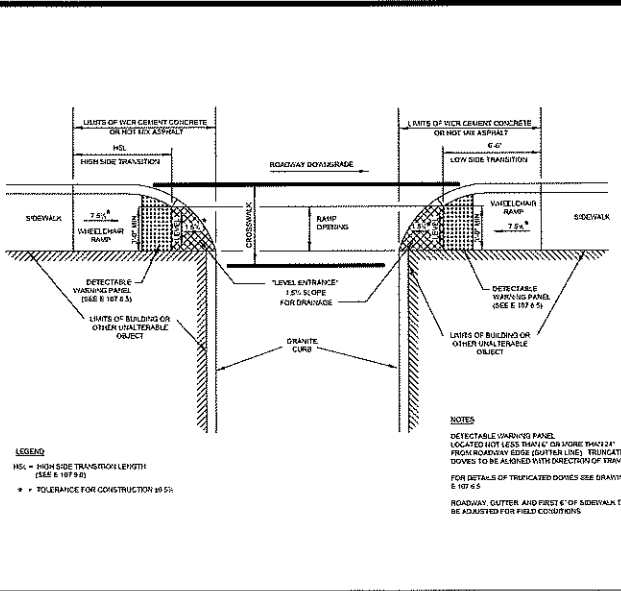


RIP-RAP SPILLWAY

N.T.S.

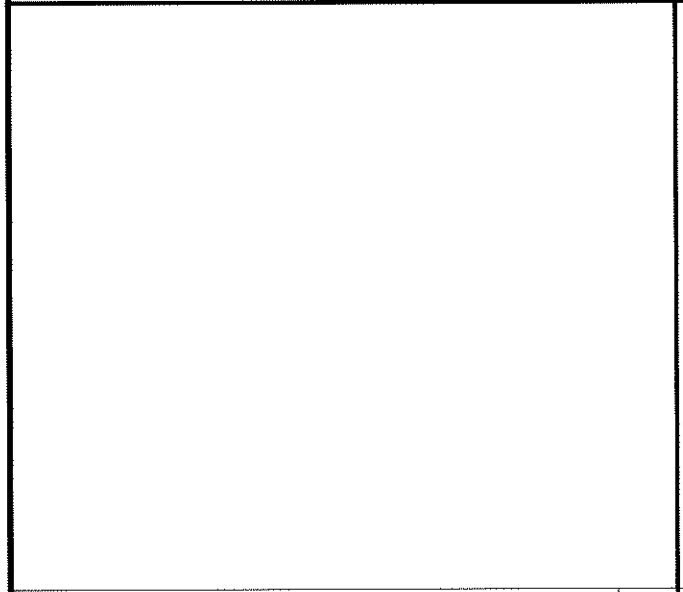


MASSDOT VERTICAL GRANITE CURB DETAIL (E 106.3)



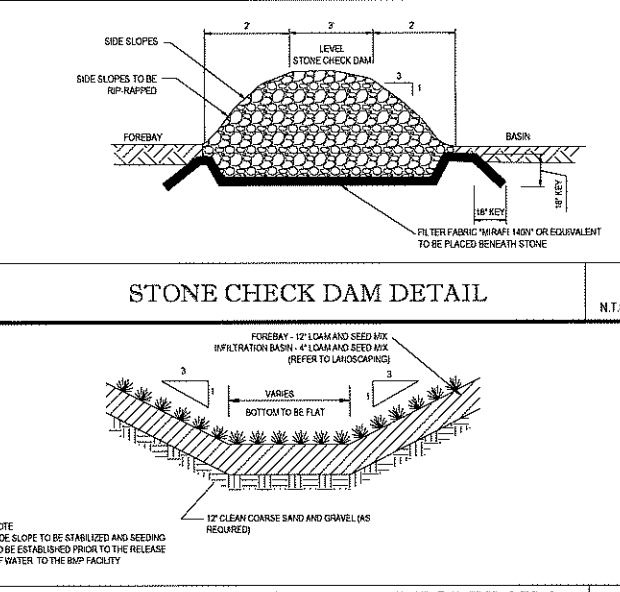
MASSDOT WHEELCHAIR RAMP DETAIL (E 107.6.0)

N.T.S.



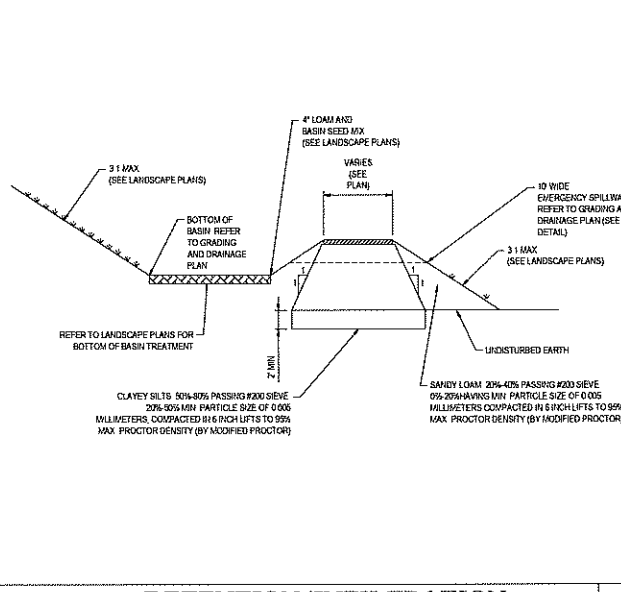
CONCRETE FLARED END SECTION

N.T.S.



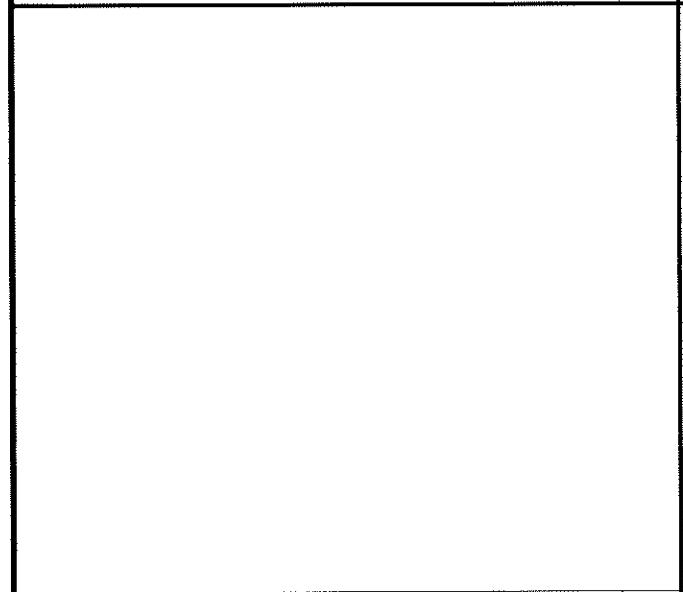
STONE CHECK DAM DETAIL

N.T.S.



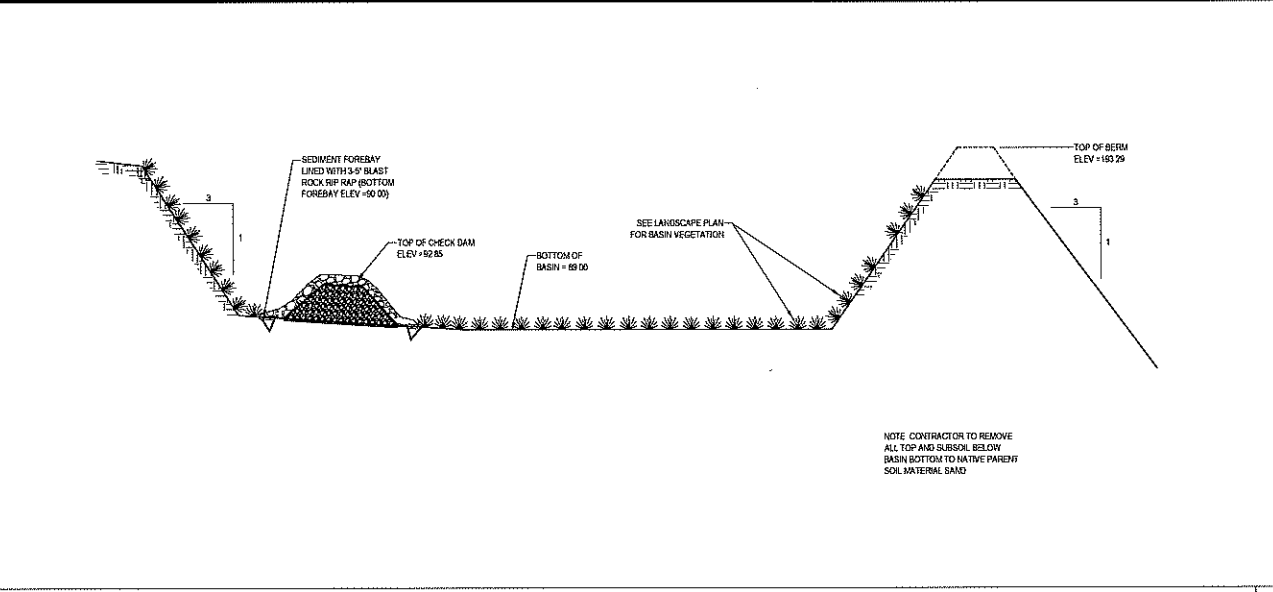
DETENTION/INFILTRATION BASIN BERM DETAIL

N.T.S.



RIP-RAP OUTLET DETAIL

N.T.S.



TYPICAL SECTION THROUGH DETENTION / INFILTRATION BASIN

N.T.S.

BOHLER ENGINEERING
 SITE CIVIL AND CONSULTING ENGINEERING
 LAND SURVEYING PROGRAM MANAGEMENT LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

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REVISIONS

REV	DATE	COMMENT	BY
1	11/01/19	SITE PLAN REVIEW SUBMITTAL	NPD
2	11/22/19	REVISED PER TOWN COMMENTS	CFD
3	02/18/20	REVISED PER TOWN COMMENTS	NPD
4	03/05/20	REVISED PER TOWN COMMENTS	CFD
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PERMIT SET

PROJECT No.: W181131
 DRAWN BY: NPD
 CHECKED BY: RAM
 DATE: 08/26/2019
 SCALE: AS NOTED
 CADD L: W181131S54

SITE DEVELOPMENT PLANS FOR

HARBOR ONE Bank

LOCATION OF SITE:
 MAP #D10, BLOCK #3, LOTS #10, 11 & PORTIONS OF LOT #1A & B
 751 PLAIN STREET
 TOWN OF MARSHFIELD
 PLYMOUTH COUNTY, MA

BOHLER ENGINEERING

352 TURNPIKE ROAD
 SOUTH-BOROUGH, MA 01772
 Phone: (508) 480-9900
 Fax: (508) 480-9980
 www.BohlerEngineering.com

REGISTERED PROFESSIONAL CIVIL ENGINEER
 No. 41697
 STATE OF MASSACHUSETTS

SHEET TITLE:
CONSTRUCTION DETAIL SHEET

SHEET NUMBER:
14
 OF 14

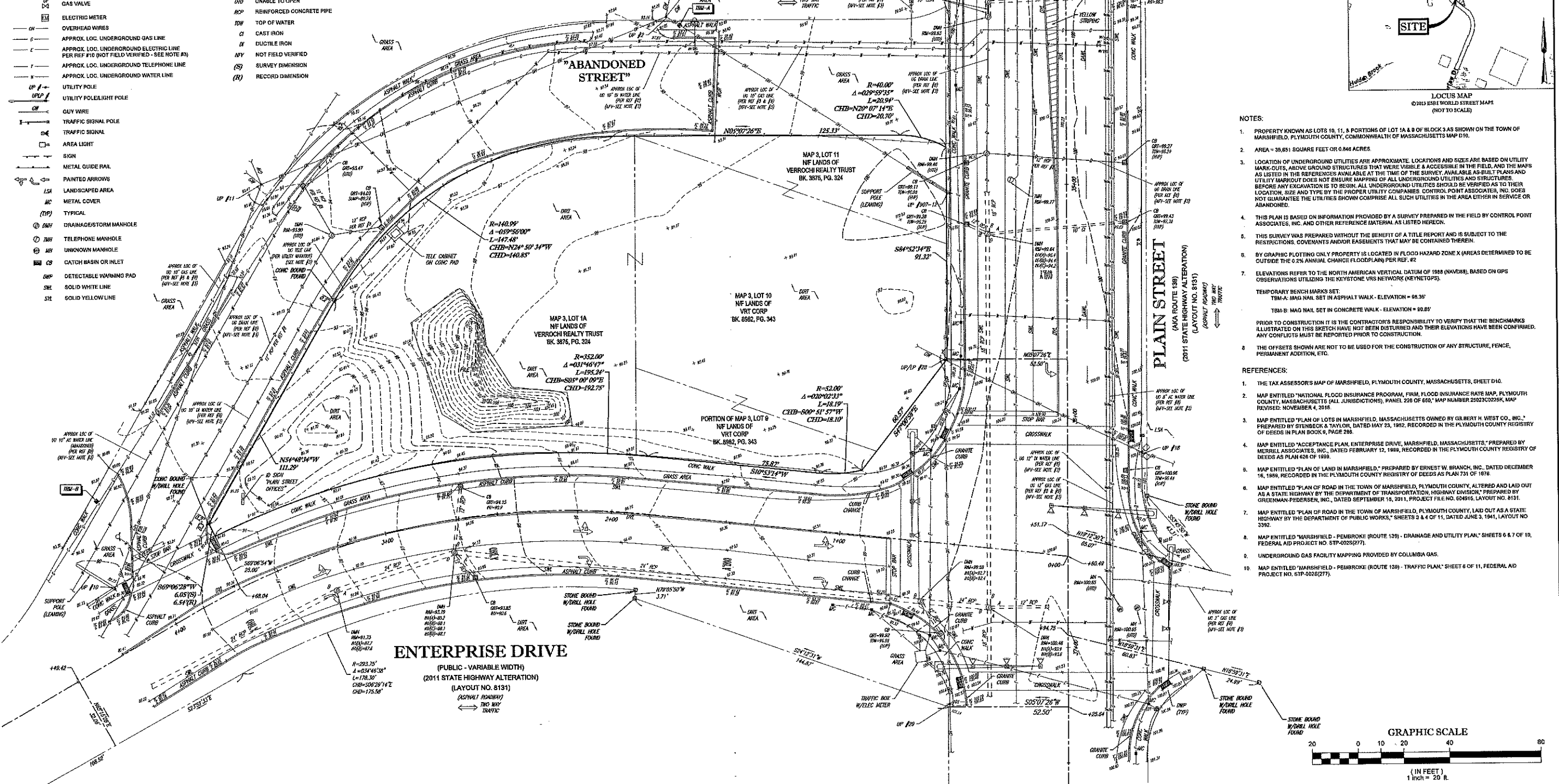
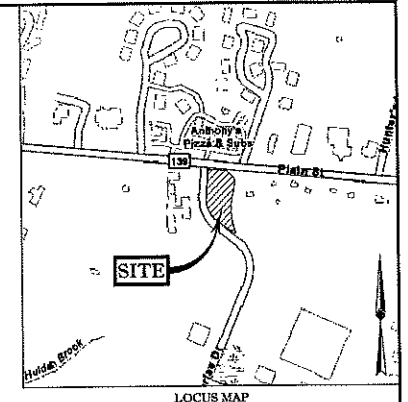
REV 4 - 03/03/2020

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LEGEND

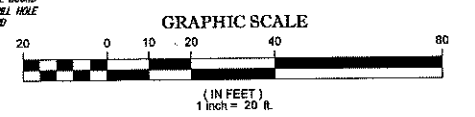
--- 124 ---	EXISTING CONTOUR	D/Y	DOUBLE YELLOW LINE
--- 125 ---	EXISTING SPOT ELEVATION	D/WL	DASHED WHITE LINE
X 122.45	EXISTING TOP OF CURB ELEVATION	N/V	NO VISIBLE PIPE
X 6 122.85	EXISTING GUTTER ELEVATION	I/V	INVERT ELEVATION
Y	HYDRANT	G/E	GRATE ELEVATION
W	WATER VALVE	W/G	WOODEN GUIDE RAIL
G	GAS VALVE	U/O	UNABLE TO OPEN
E	ELECTRIC METER	R/C	REINFORCED CONCRETE PIPE
OW	OVERHEAD WIRES	T/W	TOP OF WATER
---	APPROX. LOC. UNDERGROUND GAS LINE	C	CAST IRON
---	APPROX. LOC. UNDERGROUND ELECTRIC LINE	D	DUCTILE IRON
---	APPROX. LOC. UNDERGROUND TELEPHONE LINE	N/V	NOT FIELD VERIFIED
---	APPROX. LOC. UNDERGROUND WATER LINE	(S)	SURVEY DIMENSION
UP	UTILITY POLE	(X)	RECORD DIMENSION
UP/P	UTILITY POLE/LIGHT POLE		
OW	GUY WIRE		
T	TRAFFIC SIGNAL POLE		
T	TRAFFIC SIGNAL		
AL	AREA LIGHT		
S	SIGN		
M	METAL GUIDE RAIL		
PA	PAINTED ARROWS		
LSA	LANDSCAPED AREA		
MC	METAL COVER		
(TYP)	TYPICAL		
DM	DRAINAGE/STORM MANHOLE		
TM	TELEPHONE MANHOLE		
UM	UNKNOWN MANHOLE		
CB	CATCH BASIN OR INLET		
DWP	DETECTABLE WARNING PAD		
S	SOLID WHITE LINE		
SY	SOLID YELLOW LINE		

ENTERPRISE DRIVE
(PUBLIC - 50' WIDE)
(PLAN BOOK 47, PAGE 742)



- NOTES:**
- PROPERTY KNOWN AS LOTS 10, 11, & PORTIONS OF LOT 1A & B OF BLOCK 3 AS SHOWN ON THE TOWN OF MARSHFIELD, PLYMOUTH COUNTY, COMMONWEALTH OF MASSACHUSETTS MAP D10.
 - AREA = 38,851 SQUARE FEET OR 0.846 ACRES.
 - LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARK-OUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGUN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
 - THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREIN.
 - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
 - BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER REF. #2
 - ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).
- TEMPORARY BENCH MARKS SET:**
TBM-A: MAG NAIL SET IN ASPHALT WALK - ELEVATION = 98.39'
TBM-B: MAG NAIL SET IN CONCRETE WALK - ELEVATION = 90.85'
- PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.**
- 8 THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.

- REFERENCES:**
- THE TAX ASSESSOR'S MAP OF MARSHFIELD, PLYMOUTH COUNTY, MASSACHUSETTS, SHEET D10.
 - MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, PLYMOUTH COUNTY, MASSACHUSETTS (ALL JURISDICTIONS), PANEL 228 OF 650, MAP NUMBER 229230228K, MAP REVISED: NOVEMBER 4, 2018.
 - MAP ENTITLED "PLAN OF LOTS IN MARSHFIELD, MASSACHUSETTS OWNED BY GILBERT H. WEST CO., INC." PREPARED BY STENBECK & TAYLOR, DATED MAY 23, 1982, RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS IN PLAN BOOK 9, PAGE 286.
 - MAP ENTITLED "ACCEPTANCE PLAN, ENTERPRISE DRIVE, MARSHFIELD, MASSACHUSETTS," PREPARED BY MERRILL ASSOCIATES, INC., DATED FEBRUARY 12, 1988, RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN 608 OF 1988.
 - MAP ENTITLED "PLAN OF LAND IN MARSHFIELD," PREPARED BY ERNEST W. BRANCH, INC., DATED DECEMBER 18, 1988, RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS AS PLAN 731 OF 1978.
 - MAP ENTITLED "PLAN OF ROAD IN THE TOWN OF MARSHFIELD, PLYMOUTH COUNTY, ALTERED AND LAID OUT AS A STATE HIGHWAY BY THE DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION," PREPARED BY GREENMAN-PEDERSEN, INC., DATED SEPTEMBER 18, 2011, PROJECT FILE NO. 054915, LAYOUT NO. 8131.
 - MAP ENTITLED "PLAN OF ROAD IN THE TOWN OF MARSHFIELD, PLYMOUTH COUNTY, LAID OUT AS A STATE HIGHWAY BY THE DEPARTMENT OF PUBLIC WORKS," SHEETS 3 & 4 OF 11, DATED JUNE 3, 1941, LAYOUT NO. 3392.
 - MAP ENTITLED "MARSHFIELD - PEMBROKE (ROUTE 129) - DRAINAGE AND UTILITY PLAN," SHEETS 6 & 7 OF 10, FEDERAL AID PROJECT NO. STP-0025(277).
 - UNDERGROUND GAS FACILITY MAPPING PROVIDED BY COLUMBIA GAS.
 - MAP ENTITLED "MARSHFIELD - PEMBROKE (ROUTE 129) - TRAFFIC PLAN," SHEET 6 OF 11, FEDERAL AID PROJECT NO. STP-0025(277).



UTILITIES:
THE FOLLOWING COMPANIES WERE NOTIFIED BY MASSACHUSETTS ONE-CALL SYSTEM (1-888-344-7233) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST.
SERIAL NUMBER: 201804001168

UTILITY COMPANY	PHONE NUMBER
VERIZON	800-922-6204
COLUMBIA GAS OF MASSACHUSETTS	800-688-6190
EVERSOURCE - ELECTRIC	800-582-5500
COMCAST - FIBER/OPTIC	800-922-6204



THE COMMONWEALTH OF MASSACHUSETTS REQUIRES NOTIFICATION BY EASINGMENTS, RESOURCES, OR ANY PERSON WHOSE ACTS DISRUPT THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL.

GERRY L. HOLDRIGHT, PLS
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #40211

12-14-18
DATE

FIELD DATE	12-3-18	BOUNDARY & TOPOGRAPHIC SURVEY	
FIELD BOOK NO.	18-18MA	BENZINE DEVELOPMENT, LLC	
FIELD BOOK PG.	1	751 PLAIN STREET LOTS 10, 11, & PORTIONS OF LOT 1A & 9, BLOCK 3, MAP D10 TOWN OF MARSHFIELD, PLYMOUTH COUNTY COMMONWEALTH OF MASSACHUSETTS	
FIELD CREW	B.S.B.	CONTROL POINT ASSOCIATES, INC.	
DRAWN	A.M.M.	352 TURNPIKE ROAD SOUTHBOROUGH, MA 01772 508.948.3000 - 508.948.3003 FAX	
ALSO AT: 518212510 CHELSEA, MA 0215712980 MANHATTAN, NY 948780811 MT LAUREL, NJ 988572090 WARREN, NJ 9885682099	APPROVED	DATE	SCALE
J.R.Z.	G.L.H.	12-14-18	1"=20'
FILE NO.	03-180346	PAGE NO.	1 OF 1