

PROPOSED SITE RE-DEVELOPMENT PLANS

for

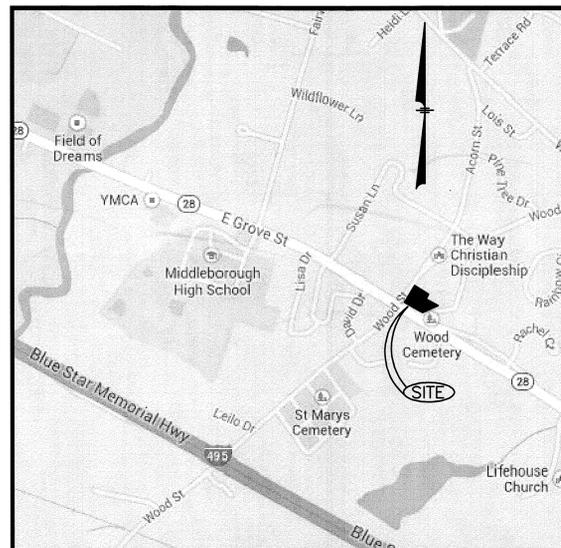
ASSESSORS MAP 65 - LOTS 299, 372 & 1112

**90 EAST GROVE STREET
MIDDLEBOROUGH, MASSACHUSETTS 02346**

Prepared for:



100 CROSSING BLVD, FRAMINGHAM, MASSACHUSETTS 01702



LOCATION MAP
(NOT TO SCALE)

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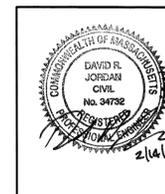
* ARCHITECTURAL PLANS FOR PERMITTING USE ONLY.
CONTRACTOR TO REFER TO STAMPED, SIGNED, SEALED
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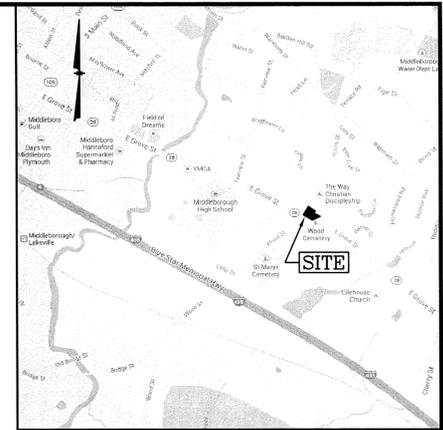
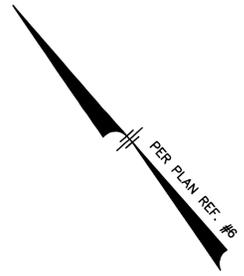
90 EAST GROVE STREET
MIDDLEBOROUGH, MA

Cumberland FARMS
CUMBERLAND FARMS INC.
100 CROSSING BLVD.
FRAMINGHAM, MA 01702

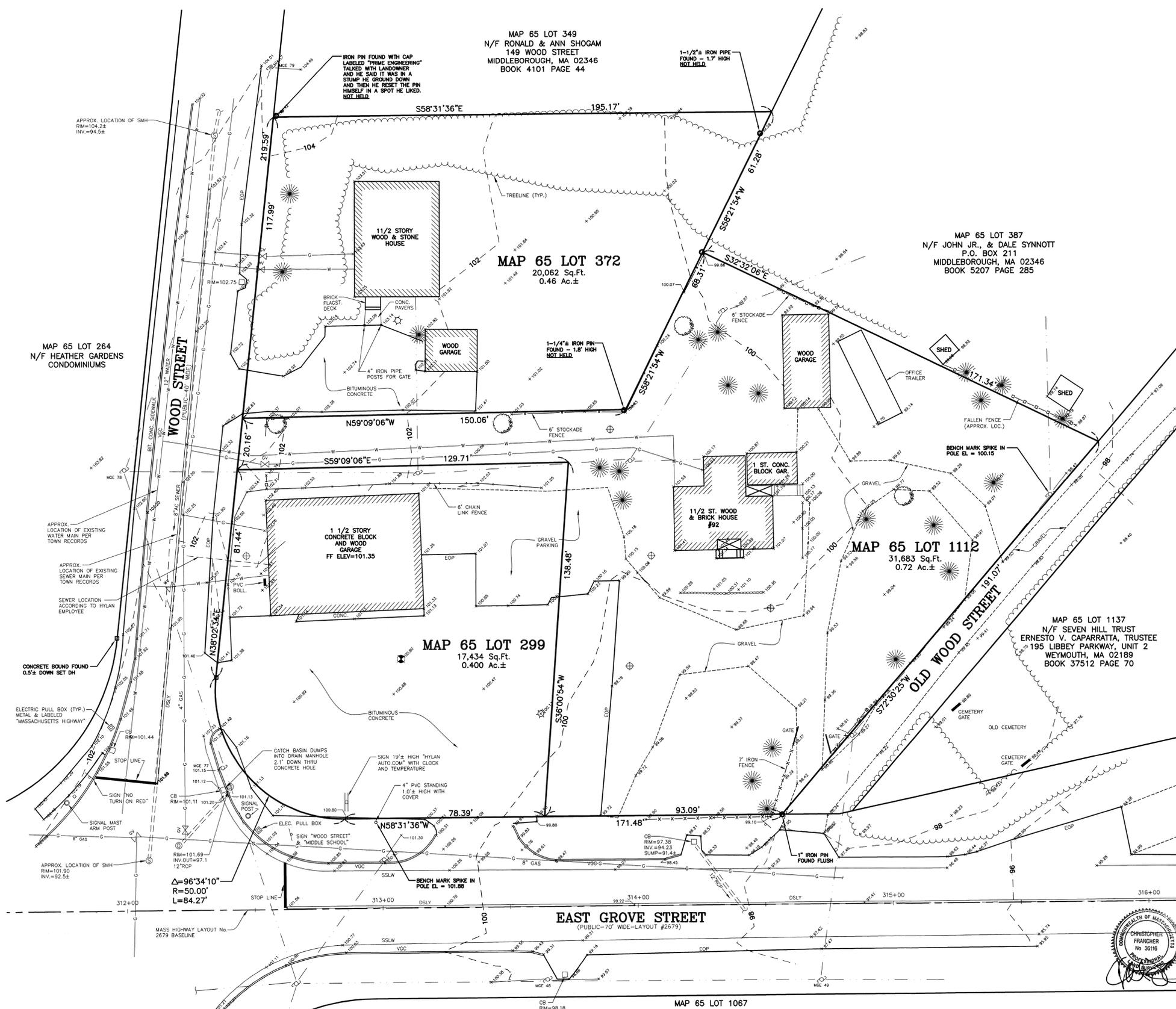
TITLE SHEET
CFG1.0



REVISIONS			69,179 SQUARE FEET
DATE	REV. BY	DESCRIPTION	1.588± ACRES
2/14/14	CMT	REV. CFG1.0, CFG3.0-9.1, CFG10.0, CFG16.0	V #X
			Store #X
			Facility #X



LOCATION MAP
(NOT TO SCALE)



- NOTES:**
- 1) LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE ONLY. ADDITIONAL UNDERGROUND UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED.
 - 2) ELEVATIONS SHOWN HEREON ARE ON USGS 1983 NAVD. CURB ELEVATIONS SHOWN ARE AT THE "TOE" OF CURB. CURBS ARE 0.50'± HIGH.
 - 3) REFER TO FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT FOR TITLE INSURANCE #NCS-610546-HOU1; EFFECTIVE DATE: 6/6/13 (MAP 65 LOT 299 ONLY).

- PLAN REFERENCES:**
- 1) PLYMOUTH COUNTY REGISTRY OF DEEDS (P.C.R.D.) PLAN BOOK 47 PLAN 506.
 - 2) P.C.R.D. PLAN BOOK 39 PLAN 911.
 - 3) P.C.R.D. PLAN BOOK 37 PLAN 1038.
 - 4) P.C.R.D. PLAN BOOK 27 PLAN 278.
 - 5) P.C.R.D. BOOK 3444 PAGE 552.
 - 6) 1930 MASS HIGHWAY LAYOUT #2679 (SHEETS 23-25 OF 30).

- CERTIFICATIONS:**
- 1) I CERTIFY THAT THIS SURVEY PLAN SHOWS THE PROPERTY LINES THAT ARE THE LINES OF EXISTING OWNERSHIPS AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE WAYS ALREADY ESTABLISHED, THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.
 - 2) I CERTIFY THAT THIS SURVEY AND PLAN CONFORMS TO THE ETHICAL, PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS.
 - 3) I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

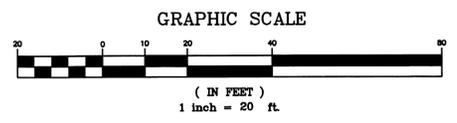
CHRISTOPHER FRANCHER, P.L.S. 12/13/13
DATE

EXISTING CONDITIONS PLAN
ASSESSORS MAP 65 - LOTS 299, 372 & 1112
90 EAST GROVE STREET
MIDDLEBOROUGH, MASSACHUSETTS 02346
PREPARED FOR:
CUMBERLAND FARMS GROUP
100 CROSSING BOULEVARD
FRAMINGHAM, MASSACHUSETTS 01702

		44 Stiles Road, Suite One New Hampshire 03079 (603) 893-0720 ENGINEERS • PLANNERS • SURVEYORS	
SCALE: 1" = 20'	DATE: DECEMBER 9, 2013	DRAWING NO. 3347TWS.DWG	
DRAWN BY: DH	CHECKED BY: CMF	PROJECT NO. 334713	SHEET NO. CFG2.0
NO. DESCRIPTION BY DATE			
REVISIONS			

LEGEND

—	OVERHEAD SERVICE WIRES	⊕	UTILITY POLE
—	DOUBLE SOLID LINE YELLOW	⊙	DRAIN MANHOLE
—	SINGLE SOLID LINE WHITE	⊙	SEWER MANHOLE
+	SIGN	⊙	TELEPHONE MANHOLE
⊕	OBSERVATION WELL	⊙	CATCH BASIN
—	TREELINE	—	WATER LINE
•	SPOT ELEVATION	•	WATER VALVE
—	CONTOUR ELEVATION	•	FIRE HYDRANT
		•	GAS VALVE
		•	GAS LINE

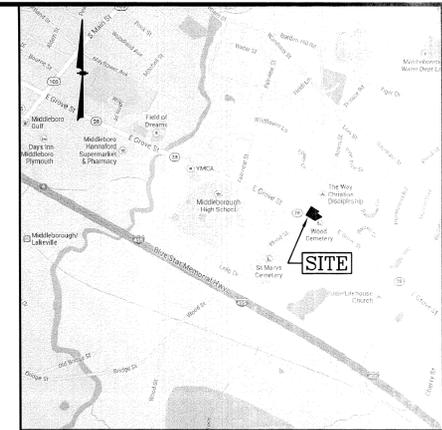


OWNERS OF RECORD:

MAP 65 LOT 299 TOMI, LLC C/O HYLAN AUTO SALES 90 EAST GROVE STREET MIDDLEBOROUGH, MA 02346 BOOK 32570 PAGE 63	MAP 65 LOT 372 EUGENE & CAROLINE WELDON 147 WOOD STREET MIDDLEBOROUGH, MA 02346 BOOK 10506 PAGE 2	MAP 65 LOT 1112 92 EAST GROVE STREET TRUST BRENDA J. WALANIS, TRUSTEE 92 EAST GROVE STREET MIDDLEBOROUGH, MA 02346 BOOK 38430 PAGE 87
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NO.	DESCRIPTION	BY	DATE

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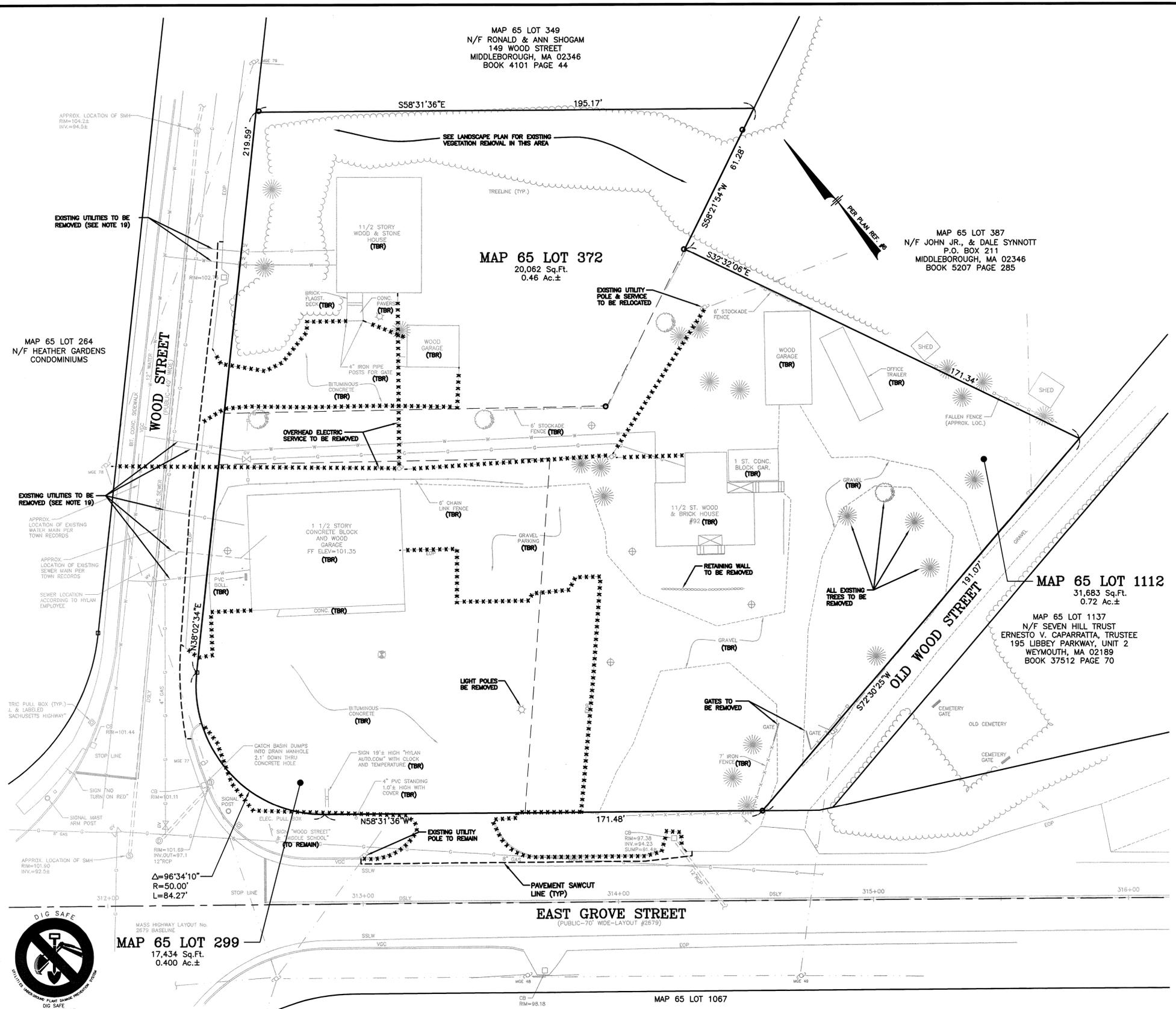
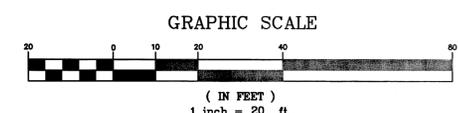


LOCATION MAP
(NOT TO SCALE)

NOTES:

- 1) A DEMOLITION PERMIT MUST BE OBTAINED FROM THE TOWN OF MIDDLEBOROUGH PRIOR TO COMMENCEMENT OF WORK. ALL EXISTING UTILITY DISCONNECTIONS MUST BE COORDINATED WITH RESPECTIVE UTILITY COMPANIES.
- 2) ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS. CONTRACTOR TO INSTALL EROSION CONTROL DEVICES IN ACCORDANCE WITH GRADING & DRAINAGE PLAN PRIOR TO BEGINNING DEMOLITION ACTIVITIES.
- 3) PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
- 4) DEMOLISH CONCRETE IN ALL SECTIONS.
- 5) BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION MANAGER.
- 6) CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT INJURY, DAMAGE TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.
- 7) REFRAIN FROM USING EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF THE DEVELOPER AND APPLICABLE GOVERNMENTAL AUTHORITIES.
- 8) CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO INSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF THE DEVELOPER AND APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATIVE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
- 9) USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
- 10) ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
- 11) COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION IN ORDER TO INSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY, GRADE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE.
- 12) REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND DEPARTMENTS.
- 13) DISCONNECT, SHUT OFF AND SEAL ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO INSURE THE CONTINUATION OF SERVICE.
- 14) PROTECT EXISTING DRAINAGE SYSTEM(S) AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING DURING CONSTRUCTION. SEE DETAIL SHEETS FOR EROSION CONTROL DEVICES.
- 15) ALL WORK WITHIN ROADWAY RIGHT-OF-WAYS TO CONFORM TO TOWN OF MIDDLEBOROUGH AND MASS DOT STANDARDS.
- 16) THE LIMITS OF WORK SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION OR SITE CLEARING.
- 17) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY "DIG SAFE" (1-888-344-7233) 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER DEPARTMENT TO MARK OUT THEIR UTILITIES.
- 18) NOTES ON THIS PLAN THAT READ "TBR" REPRESENT FEATURES TO BE REMOVED. ANY FEATURES NOT LABELED "TBR" OR "TO BE REMOVED" SHALL BE CONSIDERED EXISTING TO REMAIN.
- 19) ALL EXISTING UTILITY SERVICES TO LOTS 299, 372 & 1112 SHALL BE DISCONNECTED AND/OR REMOVED IN ACCORDANCE WITH THE TOWN OF MIDDLEBOROUGH DEPARTMENT OF PUBLIC WORKS.

SEE EROSION CONTROL PLAN & DETAIL SHEETS FOR CONSTRUCTION SEQUENCE, TEMPORARY EROSION CONTROL MEASURES, AND LOCATION OF EROSION CONTROL DEVICES.

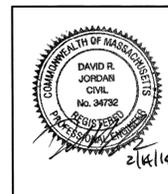


LEGEND

⊕	UTILITY POLE	—	OVERHEAD SERVICE WIRES
⊙	DRAIN MANHOLE	—	DOUBLE SOLID YELLOW LINE
⊙	SEWER MANHOLE	—	SINGLE SOLID WHITE LINE
⊙	TELEPHONE MANHOLE	—	SIGN
⊙	CATCH BASIN	⊕	OBSERVATION WELL
—	WATER LINE	—	TREELINE
—	WATER VALVE	—	CONTOUR ELEVATION
—	FIRE HYDRANT	—	GAS LINE
—	GAS VALVE	(TBR)	TO BE REMOVED
—		*****	TO BE REMOVED

OWNERS OF RECORD:

MAP 65 LOT 299 TOMI, LLC C/O HYLAN AUTO SALES 90 EAST GROVE STREET MIDDLEBOROUGH, MA 02346 BOOK 32570 PAGE 63	MAP 65 LOT 372 EUGENE & CAROLINE WELDON 147 WOOD STREET MIDDLEBOROUGH, MA 02346 BOOK 10506 PAGE 2	MAP 65 LOT 1112 92 EAST GROVE STREET TRUST BRENDA J. WALANIS, TRUSTEE 92 EAST GROVE STREET MIDDLEBOROUGH, MA 02346 BOOK 38430 PAGE 87
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REVISIONS			69,179 SQUARE FEET 1.588± ACRES V #X Store #X Gas Station# Facility #X
DATE	REV. BY.	DESCRIPTION	
2/14/14	CMT	REV. EXISTING BUFFER NOTE	

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MIDDLEBOROUGH, MASSACHUSETTS

Cumberland Farms
CUMBERLAND FARMS INC.
100 CROSSING BLVD.
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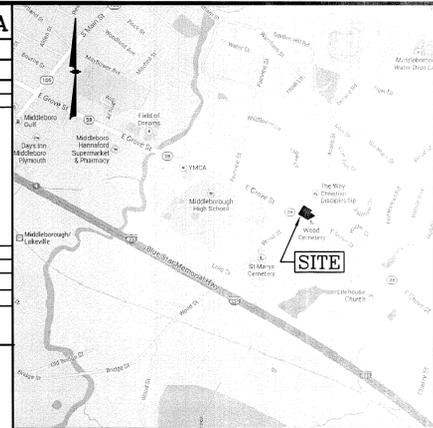
DEMOLITION PLAN

SCALE: 1"= 20'
DATE: DECEMBER 9, 2013
FILE: 3347SP.dwg
DRAWN BY: MHF
CHECKED BY:
CFG.3.0

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TABLE OF ZONING REGULATIONS - MIDDLEBOROUGH, MA

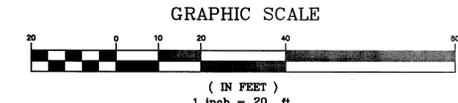
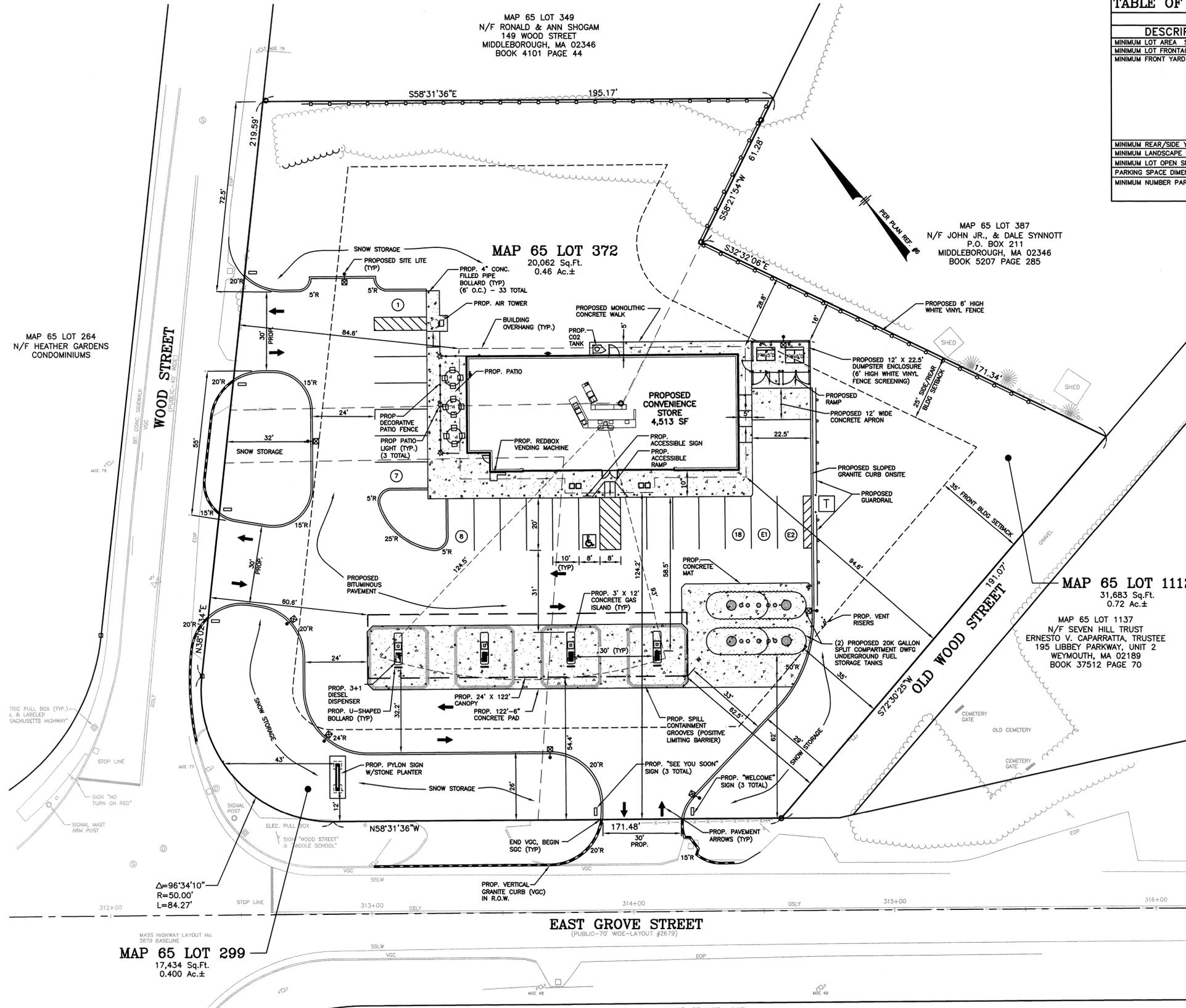
ZONE: GENERAL USE (GU) DISTRICT		
DESCRIPTION	REQUIRED	PROVIDED
MINIMUM LOT AREA Sq. Ft.	NONE	69,179± Sq. Ft.
MINIMUM LOT FRONTAGE	75'	475.34' ALONG WOOD & EAST GROVE STREETS
MINIMUM FRONT YARD SETBACK	35'	EAST GROVE ST 124.2' (BUILDING) 54.4' (CANOPY) WOOD ST. 84.6' (BUILDING) 60.6' (CANOPY) OLD WOOD ST. 94.6' (BUILDING) 62.5' (CANOPY)
MINIMUM REAR/SIDE YARD SETBACK	25'	28.8'
MINIMUM LANDSCAPE SETBACK	25' FRONT, 15' SIDE/REAR	26' FRONT, 16' SIDE/REAR
MINIMUM LOT OPEN SPACE	40% (27,672 SF)	51.7% (35,793 SF)
PARKING SPACE DIMENSIONS	10' X 20'	10' X 20'
MINIMUM NUMBER PARKING SPACES	1 SPACE/250 SF (GFA) 4,513 SF x 1 SP/250 SF = 18 SP. REQ.	20 SPACES (INCLUDING 2 EMPLOYEE SPACES AND EXCLUDES PARKING AT DISPENSERS)



LOCATION MAP
(NOT TO SCALE)

NOTES:

- THE BOUNDARY INFORMATION SHOWN HEREON FOR MAP 065 LOTS 299, 372, & 1112 IS THE RESULT OF A STANDARD BOUNDARY SURVEY PREPARED BY THIS OFFICE, DATED FEBRUARY 5, 2013. ONSITE TOPOGRAPHIC INFORMATION PREPARED BY THIS OFFICE.
- ASSESSORS MAP 065 LOTS 299, 372, & 1112
- ZONING DISTRICT: GENERAL USE (GU)
- LOT AREA = 69,179 Sq.Ft.
= 1.59ac.±
- EXISTING USE: SINGLE FAMILY DWELLINGS & HYLAN AUTO SALES.
- PROPOSED USE: RETAIL MOTOR FUEL OUTLET WHICH INCLUDES A 4,513 SF CONVENIENCE STORE AND A FUEL DISPENSING AREA WITH 4 DISPENSERS (8 FUELING POSITIONS) AND AN OVERHEAD CANOPY. FACILITY TO BE OPEN 24 HOURS A DAY.
- ALL BUILDINGS AND SITE CONSTRUCTION SHALL COMPLY WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
- THE LOCATIONS OF EXISTING SUBSURFACE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM AVAILABLE RECORD DRAWINGS AND ARE NOT WARRANTED TO BE CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SUBSURFACE UTILITIES PRIOR TO PERFORMING ANY WORK.
- WRITTEN DIMENSIONS ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 1-888-344-7233 PRIOR TO ANY EXCAVATION.
- ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF MIDDLEBOROUGH AND THE COMMONWEALTH OF MASSACHUSETTS.
- ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND THE STANDARD CONSTRUCTION DRAWINGS AS SUPPLIED BY CUMBERLAND FARMS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY MHF DESIGN CONSULTANTS, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR AND/OR ENGINEER AS INCLUDED IN THE PLAN SET DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE AND/OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- ALL UNDERGROUND STORAGE TANKS, PRODUCT PIPING AND VENT LINES SHALL COMPLY WITH CURRENT STATE AND E.P.A. REGULATIONS.
- ALL SNOW SHALL BE STORED IN THE AREA(S) DEPICTED ON THIS PLAN AS SNOW STORAGE AREAS. IN THE EVENT THAT THE AREA(S) APPROVED FOR SNOW STORAGE BECOME FULL, THE OWNER SHALL REASONABLY REMOVE EXCESS SNOW FROM THE SITE, AND SHALL NOT ALLOW SNOW TO BE STORED WITHIN PARKING LOTS OR TRAVEL AISLES.
- ALL WASTE MATERIALS AND RECYCLABLES SHALL BE CONTAINED WITHIN THE BUILDING(S) OR APPROVED STORAGE FACILITIES AND SHALL NOT BE OTHERWISE STORED ON PROPERTY.
- THE APPLICANT HAS DESIGNED THIS SITE TO SAFELY ACCOMMODATE MAXIMUM LENGTH VEHICLES AND TRUCKS, EITHER DELIVERING TO, OR USING THE FACILITY.
- ALL WASTE MATERIALS AND RECYCLABLES SHALL BE CONTAINED WITHIN THE BUILDING(S) OR APPROVED STORAGE FACILITIES AND SHALL NOT BE OTHERWISE STORED ON THE PROPERTY.
- EXISTING IMPERVIOUS/GRAVEL COVERAGE: 30,304 SF (43.8%)
PROPOSED IMPERVIOUS COVERAGE: 33,377 SF± (48.2%)



LEGEND

OVERHEAD SERVICE WIRES	UTILITY POLE
VERTICAL GRANITE CURB	DRAIN MANHOLE
VERTICAL CONCRETE CURB	SEWER MANHOLE
SIGN	TELEPHONE MANHOLE
OBSERVATION WELL	CATCH BASIN
SPOT ELEVATION	WATER LINE
CONTOUR ELEVATION	GAS LINE
LANDSCAPED	GAS VALVE
UNDERGROUND ELECTRIC	WATER VALVE
POST AND RAIL FENCE	FIRE HYDRANT

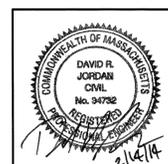


OWNERS OF RECORD:

MAP 65 LOT 299
TOMI, LLC
C/O HYLAN AUTO SALES
90 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
BOOK 32570 PAGE 63

MAP 65 LOT 372
EUGENE & CAROLINE WELDON
147 WOOD STREET
MIDDLEBOROUGH, MA 02346
BOOK 10506 PAGE 2

MAP 65 LOT 1112
92 EAST GROVE STREET TRUST
BRENDA J. WALANIS, TRUSTEE
92 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
BOOK 38430 PAGE 87



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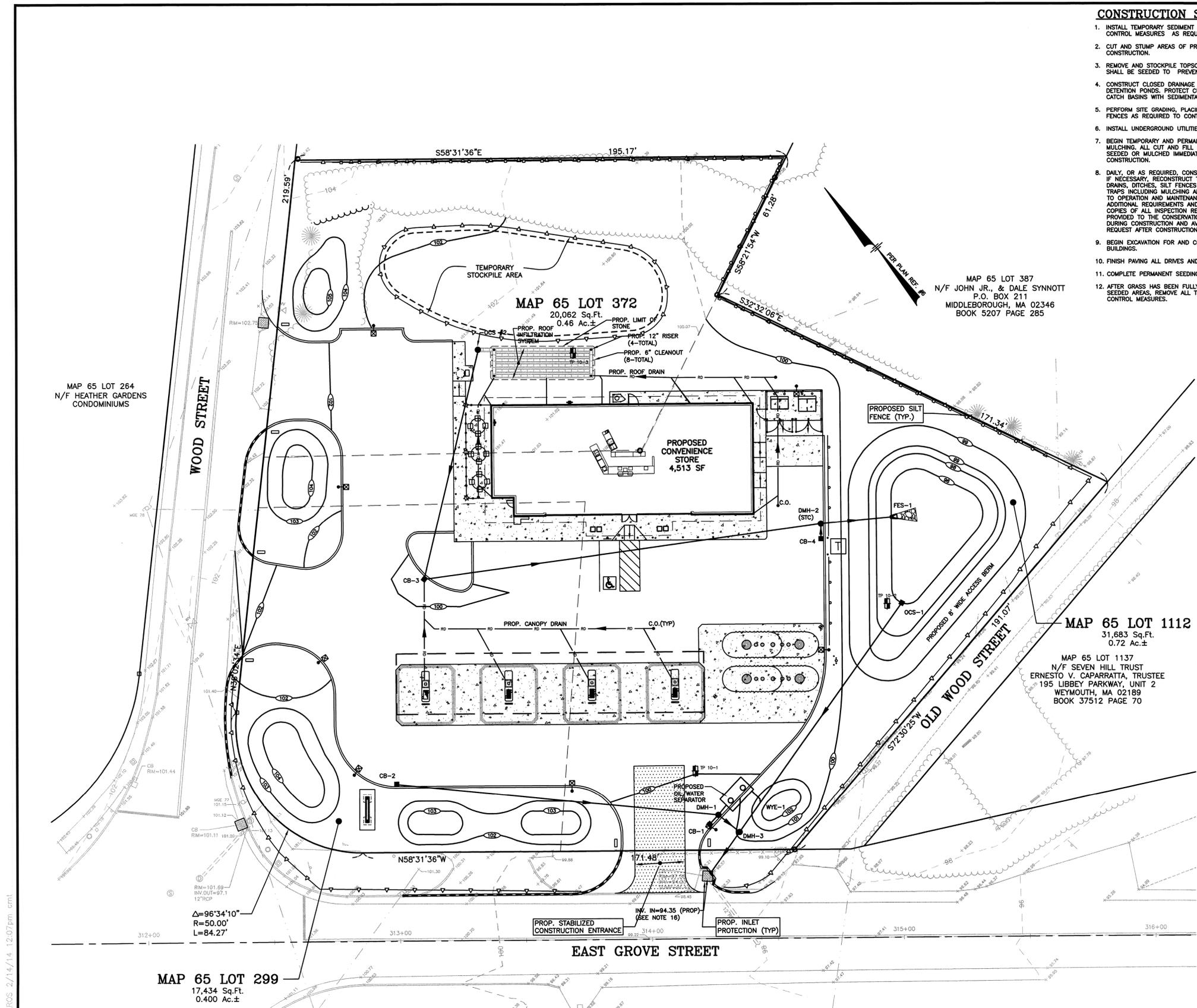
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MIDDLEBOROUGH, MASSACHUSETTS

SCALE: 1" = 20'
DATE: DECEMBER 9, 2013
FILE: 3347SP.dwg
DRAWN BY: MHF
CHECKED BY:
SITE PLAN
CFG4.0

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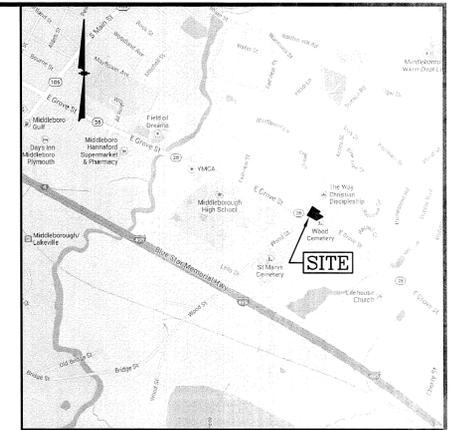


CONSTRUCTION SEQUENCE:

1. INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
2. CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
3. REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEED TO PREVENT EROSION.
4. CONSTRUCT CLOSED DRAINAGE SYSTEM AND DETENTION PONDS. PROTECT CULVERT INLETS AND CATCH BASINS WITH SEDIMENTATION BARRIERS.
5. PERFORM SITE GRADING, PLACING SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.
6. INSTALL UNDERGROUND UTILITIES.
7. BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEED OR MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION.
8. DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING. REFER TO OPERATION AND MAINTENANCE PLAN FOR ADDITIONAL REQUIREMENTS AND INFORMATION. COPIES OF ALL INSPECTION REPORTS ARE TO BE PROVIDED TO THE CONSERVATION COMMISSION DURING CONSTRUCTION AND AVAILABLE UPON REQUEST AFTER CONSTRUCTION IS COMPLETED.
9. BEGIN EXCAVATION FOR AND CONSTRUCTION OF BUILDINGS.
10. FINISH PAVING ALL DRIVES AND PARKING AREAS.
11. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
12. AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

TEMPORARY EROSION CONTROL MEASURES:

- 1) SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
- 2) MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY. NO SALT HAY SHALL BE USED.
- 3) FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
- 4) STOCKPILED MATERIALS SHALL BE PLACED ONLY IN AREAS SHOWN ON THE PLANS. STOCKPILES SHALL BE PROTECTED BY SILTATION FENCE AND SEED TO PREVENT EROSION. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR DISPOSED OFF SITE.
- 5) ALL DISTURBED AREAS SHALL BE LOAMED AND SEED. A MINIMUM OF 6 INCHES OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA.
- 6) SEED MIX SHALL BE EQUAL PARTS OF RED FESCUE (CREeping), KENTUCKY BLUEGRASS, REDTOP, PERENNIAL RYEGRASS.
- 7) AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED.
- 8) PAVED ROADWAYS AND PARKING LOTS MUST BE KEPT CLEAN AT ALL TIMES. PROVIDE SWEEPING ON A DAILY BASIS OR AS DIRECTED BY THE TOWN.
- 9) ALL CATCH BASIN INLETS WILL BE PROTECTED WITH INLET PROTECTION - SEE DETAIL.
- 10) ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA.



LOCATION MAP
(NOT TO SCALE)

OPERATIONS/MAINTENANCE PLAN FOR STORMWATER SYSTEM

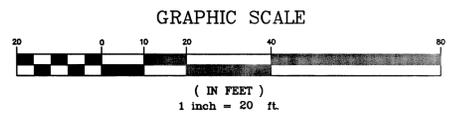
CONSTRUCTION PHASE:
THE BMP'S ASSOCIATED WITH THIS PROJECT WILL BE OWNED BY CUMBERLAND FARMS, INC. WHO WILL BE RESPONSIBLE FOR INSPECTION, OPERATION AND MAINTENANCE.

- 1) THE CONTRACTOR IS TO INSTALL AND MAINTAIN DRAINAGE FACILITIES AS SHOWN ON THE SITE PLANS BY MHF DESIGN CONSULTANTS, INC.
- 2) PRIOR TO CONSTRUCTION, ALL EROSION/SILT CONTROL DEVICES SHOWN ON ABOVE PLAN ARE TO BE INSTALLED. TO PREVENT SILT INTRUSION INTO SURROUNDING AREAS DURING CONSTRUCTION, THE CONTRACTOR IS TO SET SILT FENCING AT ALL SLOPES WHICH MAY ERODE IN THE DIRECTION OF ANY OPEN DRAINAGE FACILITIES OR ADJUTING PROPERTY. SUCH PREVENTIVE MEASURES ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
- 3) ALL CONSTRUCTION OF DRAINAGE FACILITIES IS TO BE INSPECTED BY INSPECTORS FROM THE TOWN OF MIDDLEBOROUGH AND BY AN AUTHORIZED AGENT TO VERIFY CONFORMANCE TO THE DESIGN PLAN.
- 4) THE SEQUENCE OF DRAINAGE CONSTRUCTION SHALL BE AS FOLLOWS:
 - A) CLEAR, GRUB, EXCAVATE AREAS FOR DETENTION SYSTEMS.
 - B) INSTALL CATCH BASINS, PIPES AND MANHOLES.
- 5) EROSION CONTROLS ARE TO BE INSPECTED AND MAINTAINED ON A DAILY BASIS. UPON DISCOVERY OF SILTATION BUILD-UP IN ANY CATCH BASIN SWAMP OR ANY OTHER STRUCTURE, CLEANING SHALL BE PERFORMED WITHIN 24 HOURS.
- 6) ALL EXPOSED SOILS SHALL BE IMMEDIATELY STABILIZED WITH A LAYER OF MULCH HAY.
- 7) UPON INSTALLATION OF CATCH BASINS, INLET PROTECTION - AS DESCRIBED ON AFOREMENTIONED PLAN - SHALL BE INSTALLED AND MAINTAINED UNTIL READY FOR PAVING.
- 8) PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS, ALL DRAINAGE STRUCTURES AND PIPES SHALL BE INSTALLED AND INSPECTED FOR PROPER FUNCTION. DURING CONSTRUCTION OF OTHER SITE FEATURES, ALL DRAINAGE FACILITIES SHALL BE INSPECTED ON A DAILY BASIS AND CLEANED/REPAIRED IMMEDIATELY UPON DISCOVERY OF SEDIMENT BUILD-UP OR DAMAGE.
- 9) AFTER PAVING IS INSTALLED, IT SHALL BE SWEEP CLEAN ON A MONTHLY BASIS.
- 10) INSPECTIONS ARE TO BE PERFORMED AND INSPECTION LOGS FILLED OUT ON A WEEKLY BASIS FROM THE START OF CONSTRUCTION THROUGH FINAL STABILIZATION. THE START OF CONSTRUCTION MEANS THE INITIAL DISTURBANCE OF SOILS ASSOCIATED WITH CONSTRUCTION. FINAL STABILIZATION MEANS 70% VEGETATIVE GROWTH FOR UNPAVED AREAS.

POST CONSTRUCTION PHASE:
THE OWNER IS TO BE RESPONSIBLE FOR MAINTENANCE OF ALL DRAINAGE STRUCTURES IN THE PROJECT - INCLUDING DRAIN PIPES AND DRAINAGE SYSTEM. THE FUTURE OWNER IS EXPECTED TO BE CUMBERLAND FARMS, INC. WHO WILL ULTIMATELY BE RESPONSIBLE FOR COMPLIANCE WITH PLAN.

REGULAR MAINTENANCE IS TO INCLUDE THE FOLLOWING:

- 1) INSPECTION OF ALL DRAINAGE FACILITIES (CATCH BASINS, MANHOLES & DETENTION SYSTEM) EVERY THREE MONTHS. DURING THE FIRST YEAR OF OPERATION, ALL DRAINAGE FACILITIES SHOULD BE INSPECTED AFTER EVERY STORM AND 2-3 DAYS AFTERWARD. DURING THESE INSPECTIONS, THE INSPECTOR AS APPOINTED BY CUMBERLAND FARMS, INC. SHALL LOOK FOR EVIDENCE OF THE FOLLOWING: STRUCTURAL DAMAGE, SILT ACCUMULATION (NEAR INLET INVERTS ON CATCH BASINS), AND IMPROPER FUNCTION. REPORTS SHALL BE FILED FOR EVERY INSPECTION AND SUBMITTED TO THE TOWN FOR COMPLIANCE FOR ONE (1) YEAR AFTER THE ISSUANCE OF THE OCCUPANCY PERMIT OR UNTIL DEEMED NECESSARY BY THE TOWN ENGINEER.
- 2) AFTER INSPECTION, IF ANY OF THE ABOVE CONDITIONS EXIST, THE INSPECTOR SHALL NOTIFY THE DEVELOPER, WHO SHALL IMMEDIATELY ARRANGE FOR ALL NECESSARY REPAIRS AND SEDIMENT REMOVAL.
- 3) PARKING AREAS ARE TO BE SWEEP CLEAN EVERY MONTH SPRING THROUGH FALL AND OTHERWISE AS NEEDED (I.E. VISUALLY NOTICEABLE DEBRIS BUILD-UP).
- 4) THE CATCH BASINS AND DRAINAGE SYSTEM ARE TO BE INSPECTED EVERY THREE MONTHS. REMOVE OIL, DEBRIS AND SEDIMENT AFTER INSPECTIONS.
- 5) ALL GRADED SLOPES SHALL BE INSPECTED EVERY SPRING FOR EROSION. UPON DISCOVERY OF ANY FAILURE (I.E. EROSION) LOAM AND SEED SHALL BE PUT IN PLACE AND NURTURED.
- 6) DURING THE WINTER MONTHS, ALL SNOW IS TO BE STORED SUCH THAT SNOWMELT IS CONTROLLED. IN THE EVENT THE AMOUNT OF SNOW EXCEEDS SUCH CAPACITY, IT IS TO BE REMOVED OFF-SITE. THE MINIMUM AMOUNT OF DEICING CHEMICALS NEEDED IS TO BE USED.
- 7) DURING THE SUMMER MONTHS, ALL LANDSCAPE FEATURES ARE TO BE MAINTAINED WITH THE MINIMUM POSSIBLE AMOUNT OF FERTILIZERS, PESTICIDES OR HERBICIDES. IF IN QUESTION, MAINTENANCE PERSONNEL SHOULD CHECK WITH THE CONSERVATION COMMISSION. ALL PERSONNEL INVOLVED WITH THE MAINTENANCE OF LANDSCAPING WILL BE INFORMED OF THIS CONDITION.
- 8) FOR ADDITIONAL INFORMATION REFER TO THE OPERATION AND MAINTENANCE AND LONG TERM POLLUTION PREVENTION PLAN FOR STORMWATER MANAGEMENT SYSTEMS.



MAP 65 LOT 299
17,434 Sq.Ft.
0.400 Ac.±

MAP 65 LOT 372
20,062 Sq.Ft.
0.46 Ac.±

MAP 65 LOT 1112
31,683 Sq.Ft.
0.72 Ac.±

MAP 65 LOT 1137
N/F SEVEN HILL TRUST
ERNESTO V. CAPARRATA, TRUSTEE
195 LIBBEY PARKWAY, UNIT 2
WEYMOUTH, MA 02189
BOOK 37512 PAGE 70

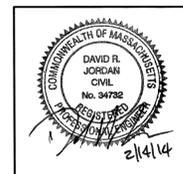
LEGEND

- | | | | | | | |
|---|-------------------|---|--------------------------|---|-------------------------|---------------------|
| ○ | UTILITY POLE | — | OVERHEAD SERVICE WIRES | — | PROP. CONTOUR ELEVATION | |
| ⊙ | DRAIN MANHOLE | — | DOUBLE SOLID YELLOW LINE | — | PROP. SILT FENCE | |
| ⊙ | SEWER MANHOLE | — | SINGLE SOLID WHITE LINE | — | PROP. CLEANOUT | |
| ⊙ | TELEPHONE MANHOLE | — | SIGN | — | CB-1 | PROP. CATCH BASIN |
| □ | CATCH BASIN | — | OBSERVATION WELL | — | DMH-1 | PROP. DRAIN MANHOLE |
| — | WATER LINE | — | TREELINE | — | SMH-1 | PROP. SEWER MANHOLE |
| — | WATER VALVE | — | CONTOUR ELEVATION | | | |
| — | FIRE HYDRANT | — | GAS LINE | | | |
| — | GAS VALVE | | | | | |



OWNERS OF RECORD:

- | | | |
|--|---|--|
| MAP 65 LOT 299
TOMI, LLC
C/O HYLAN AUTO SALES
90 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
BOOK 32570 PAGE 63 | MAP 65 LOT 372
EUGENE & CAROLINE WELDON
147 WOOD STREET
MIDDLEBOROUGH, MA 02346
BOOK 10506 PAGE 2 | MAP 65 LOT 1112
92 EAST GROVE STREET TRUST
BRENDA J. WALANIS, TRUSTEE
92 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
BOOK 38430 PAGE 87 |
|--|---|--|



REVISIONS			69,179 SQUARE FEET
DATE	REV. BY	DESCRIPTION	1.588± ACRES
2/14/14	CMT	MISC. REVISIONS	V #X
			Store #X
			Gas Station#
			Facility #X

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90 EAST GROVE STREET
MIDDLEBOROUGH, MASSACHUSETTS

CUMBERLAND FARMS INC.
100 CROSSING BLVD.
FRAMINGHAM, MA 01702

SCALE: 1" = 20'
DATE: DECEMBER 9, 2013
FILE: 33473P.dwg
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CHECKED BY:
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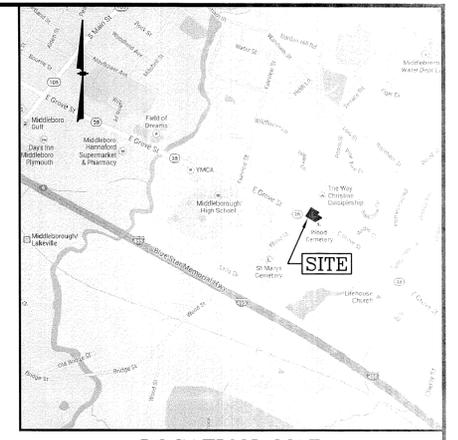
MAP 65 LOT 349
N/F RONALD & ANN SHOGAM
149 WOOD STREET
MIDDLEBOROUGH, MA 02346
BOOK 4101 PAGE 44

MAP 65 LOT 387
N/F JOHN JR. & DALE SYNNOTT
P.O. BOX 211
MIDDLEBOROUGH, MA 02346
BOOK 5207 PAGE 285

MAP 65 LOT 372
20,062 Sq.Ft.
0.46 Ac.±

MAP 65 LOT 1112
31,683 Sq.Ft.
0.72 Ac.±

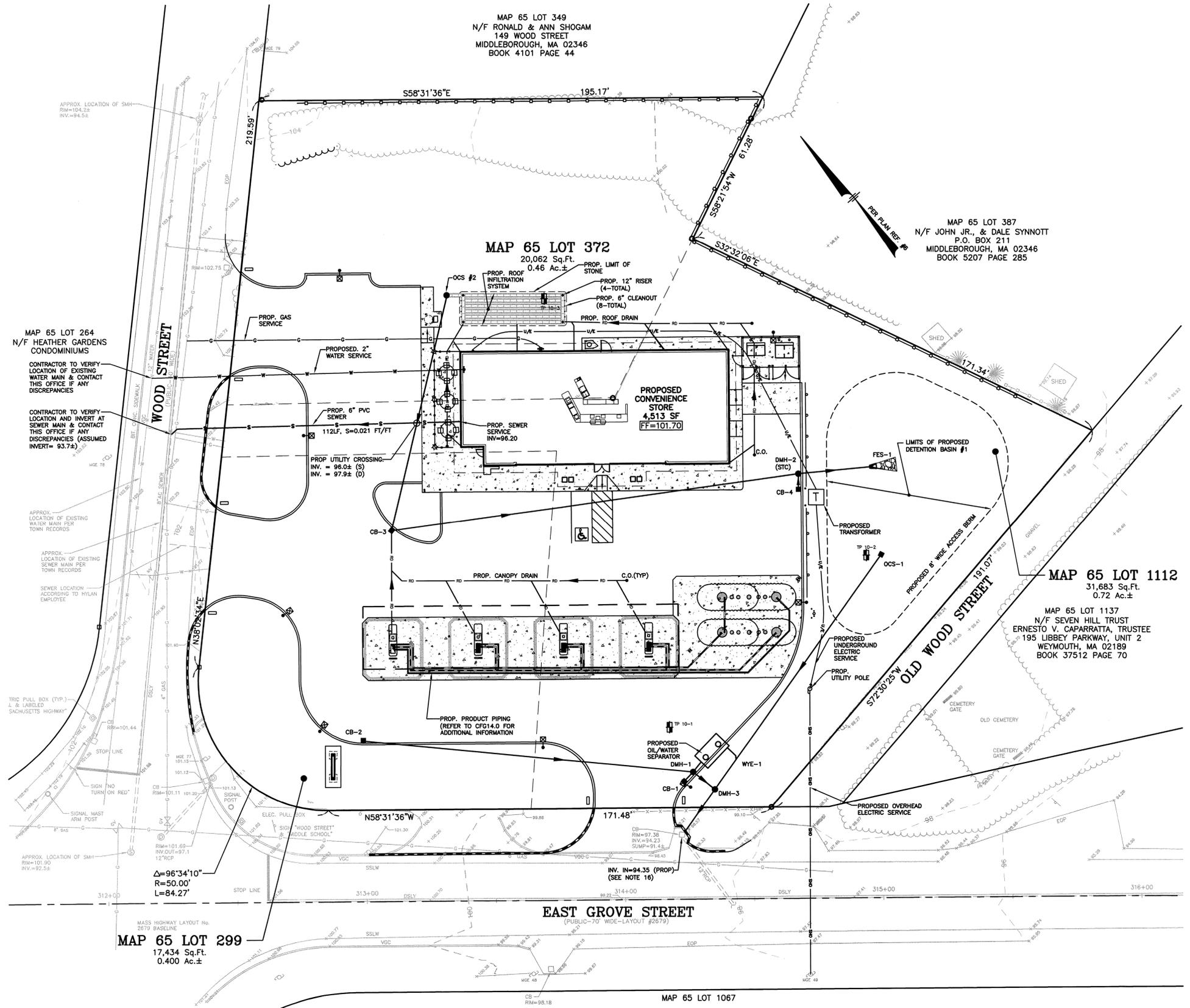
MAP 65 LOT 1137
N/F SEVEN HILL TRUST
ERNESTO V. CAPARRATA, TRUSTEE
195 LIBBEY PARKWAY, UNIT 2
WEYMOUTH, MA 02189
BOOK 37512 PAGE 70



LOCATION MAP
(NOT TO SCALE)

NOTES:

- 1) ALL SANITARY SEWER PIPE SHALL BE PVC (SDR-35), UNLESS OTHERWISE NOTED.
- 2) ALL WATER PIPE SHALL BE COPPER (TYPE K), UNLESS OTHERWISE NOTED.
- 3) ELEVATIONS ARE BASED ON USGS 1983 NAVD DATUM.
- 4) ANY UTILITY FIELD ADJUSTMENTS SHALL BE APPROVED BY THE LOCAL AUTHORITIES AND THE DEVELOPER PRIOR TO INSTALLATION.
- 5) THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR IS TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES.
- 6) ALL CONSTRUCTION SHALL CONFORM TO MUNICIPAL DPW AND ALL APPLICABLE STATE AND FEDERAL STANDARDS.
- 7) THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIG-SAFE (1-888-344-7233) PRIOR TO COMMENCING ANY EXCAVATION.
- 8) ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM TO DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.
- 9) ALL ELECTRIC, TELEPHONE AND CABLE TV LINES ARE TO BE UNDERGROUND AND INSTALLED IN CONFORMANCE WITH APPLICABLE UTILITY CO. SPECIFICATIONS.
- 10) ANY UTILITIES TO BE TAKEN OUT OF SERVICE SHALL BE DISCONNECTED AS DIRECTED BY UTILITY COMPANY AND LOCAL DPW.
- 11) ALL TRAFFIC CONTROL AND TEMPORARY CONSTRUCTION SIGNAGE ARRANGEMENTS, ACCEPTABLE TO MASS DOT AND MIDDLEBOROUGH DEPARTMENT OF PUBLIC WORKS, SHALL BE EMPLOYED DURING OPERATIONS WITHIN THE PUBLIC RIGHT-OF-WAY.
- 12) SEE GRADING & DRAINAGE PLAN FOR DETAILED DRAINAGE INFORMATION.
- 13) UNDERGROUND ELECTRICAL CONDUIT FROM THE PROPOSED UTILITY POLE TO THE PROPOSED TRANSFORMER PAD SHALL BE RIGID METAL CONDUIT WITH CONCRETE ENCASUREMENT. CONTRACTOR TO COORDINATE WITH THE LOCAL UTILITY COMPANY AND/OR THE TOWN ELECTRICAL INSPECTOR AS REQUIRED.



MAP 65 LOT 264
N/F HEATHER GARDENS
CONDOMINIUMS

CONTRACTOR TO VERIFY
LOCATION AND INVERT AT
SEWER MAIN & CONTACT
THIS OFFICE IF ANY
DISCREPANCIES (ASSUMED
INVERT = 93.7±)

APPROX. LOCATION OF EXISTING
WATER MAIN PER
TOWN RECORDS

APPROX. LOCATION OF EXISTING
SEWER MAIN PER
TOWN RECORDS

TRIC PULL BOX (TYP.)
L & LABELED
SACROSSECTS HIGHWAY

SIGNAL MAST
ARM POST

APPROX. LOCATION OF SMH
RM=101.90
INV.=92.5±

APPROX. LOCATION OF SMH
RM=101.69
INV.=97.1
12" RCP

MAP 65 LOT 299
17,434 Sq.Ft.
0.400 Ac.±

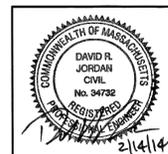
LEGEND

OVERHEAD SERVICE WIRES	UTILITY POLE	PROP. CONTOUR ELEVATION
VERTICAL GRANITE CURB	DRAIN MANHOLE	PROP. SILT FENCE
VERTICAL CONCRETE CURB	SEWER MANHOLE	PROP. CLEANOUT
SIGN	TELEPHONE MANHOLE	CB-1
OBSERVATION WELL	CATCH BASIN	PROP. CATCH BASIN
SPOT ELEVATION	WATER LINE	DMH-1
CONTOUR ELEVATION	GAS LINE	PROP. DRAIN MANHOLE
LANDSCAPED	GAS VALVE	SMH-1
UNDERGROUND ELECTRIC	WATER VALVE	PROP. SEWER MANHOLE
POST AND RAIL FENCE	FIRE HYDRANT	

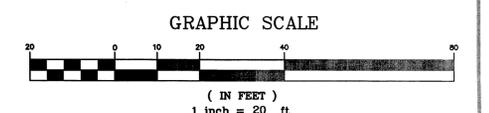


OWNERS OF RECORD:

- MAP 65 LOT 299
TOMI, LLC
C/O Hylan Auto Sales
90 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
BOOK 32570 PAGE 63
- MAP 65 LOT 372
EUGENE & CAROLINE WELDON
147 WOOD STREET
MIDDLEBOROUGH, MA 02346
BOOK 10506 PAGE 2
- MAP 65 LOT 1112
92 EAST GROVE STREET TRUST
BRENDA J. WALANIS, TRUSTEE
92 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
BOOK 38430 PAGE 87



REVISIONS			69,179 SQUARE FEET
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			Store #X
			Gas Station#
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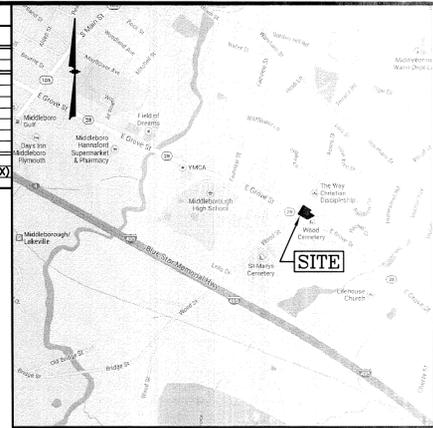
Cumberland FARMS
CUMBERLAND FARMS INC.
100 CROSSING BLVD.
FRAMINGHAM, MA 01702

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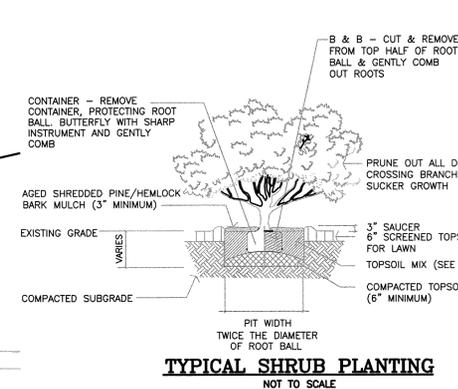
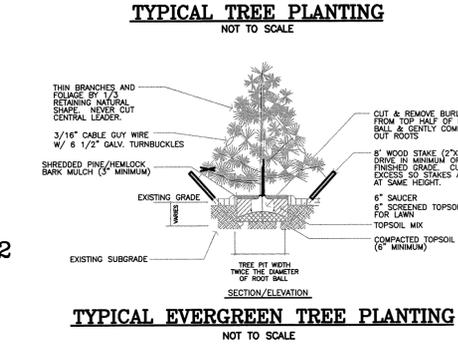
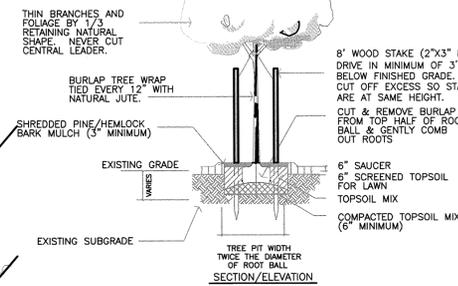
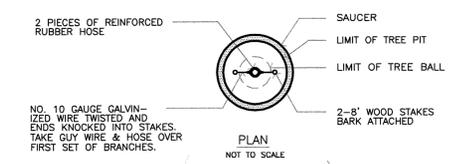
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PLANT QNTY	BOTANICAL NAME	COMMON NAME	MIN. INSTAL SIZE	MATURE SIZE/REMARKS
9	ACER RUBRUM CULTIVAR	RED MAPLE	3" CAL.	-/SHADE-STREET-RED FALL COLOR ('OCTOBER GLORY' OR SIMILAR)
11	BUXUS MICROPHYLLA CULTIVAR	BOXWOOD	24" HT. MIN.	3" HT. MAX. ('GREEN VELVET' OR SIMILAR)
8	CHAMAECYPARIS PISIFERA CULTIVAR	DWARF THREADEAF FALSECYPRESS	18"-24" SPREAD	2" HT. MAX./GOLDEN-WIDE SPREADING ('FILIFERA ARJEA-NANA' OR SIMILAR)
21	JUNIPERUS CHINENSIS 'SEAGREEN'	SEAGREEN JUNIPER	30" HT. MIN.	4'-8" HT. MAX./FOUNTAIN LIKE HABIT
26	RHOODENDRON 'PJM COMPACTA'	PJM RHOODENDRON COMPACT	24" HT. MIN.	3" HT. COMPACT GROWTH, BURGUNDY FOLIAGE
8	THUJA OCCIDENTALIS 'NIGRA'	DARK AMERICAN ARBORVITAE	6"-7" HT.	30" HT. MAX./LARGE UPRIGHT/SCREEN/HEDGE
6	SPIREA JAPONICA 'GOLD WOUND'	GOLD WOUND SPIREA	24" HT. MIN.	3" HT. MAX./GOLDEN FOLIAGE
275	HEMERCALLIS 'STELLA D'ORO'	DWARF YELLOW DAYLILLY	1 GAL.	18" O.C./GROUNDCOVER (STELLA D'ORO, RUBY STELLA, STELLA SUPREME MIX)
5	PENNISETUM ALOPECUROIDES	DWARF FOUNTAIN GRASS	1 GAL.	18" O.C./GROUNDCOVER ('HAMLIN' OR SIMILAR)

PLANT QUANTITY
PLANT DESIGNATION
PROPOSED SOD

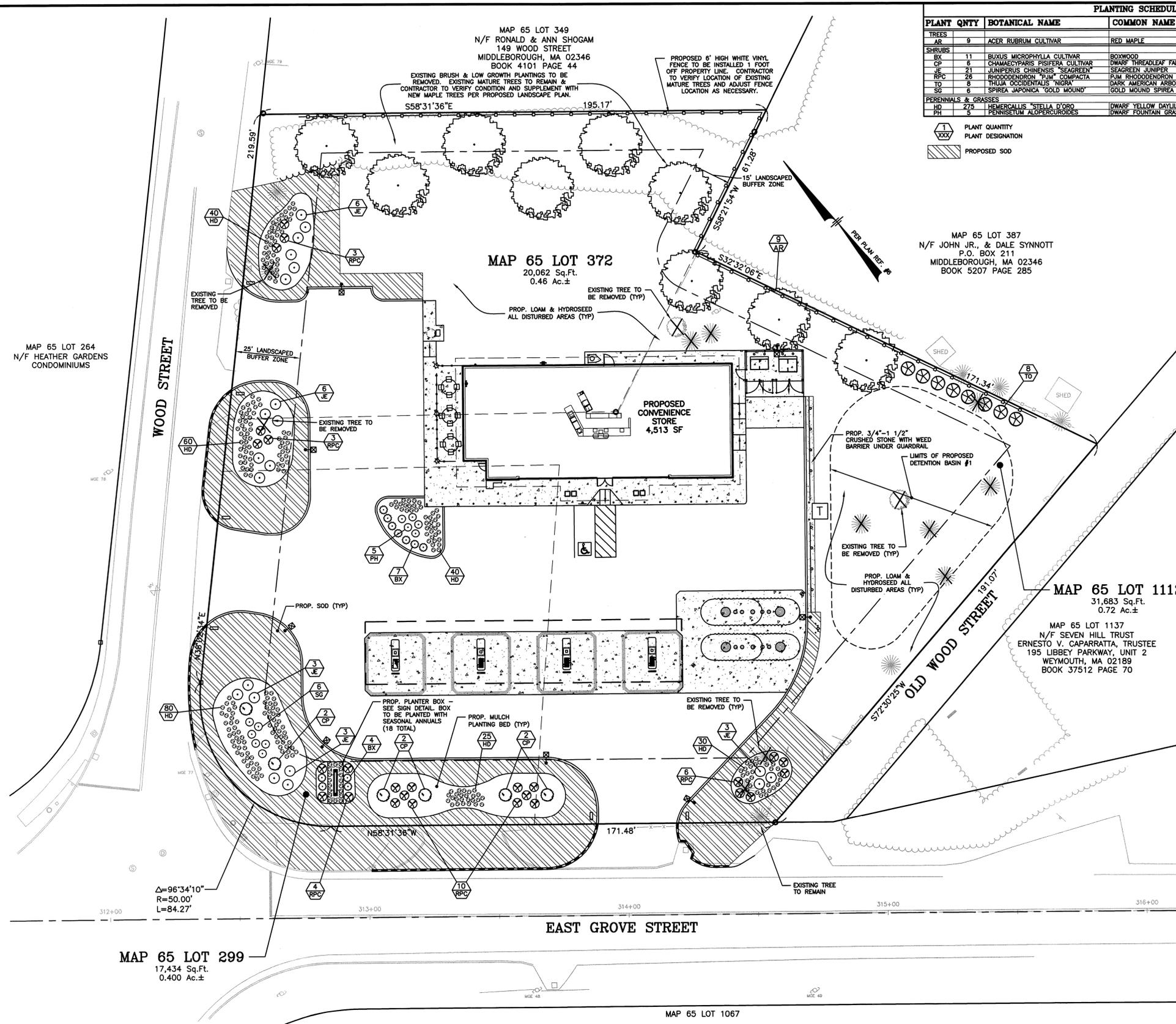
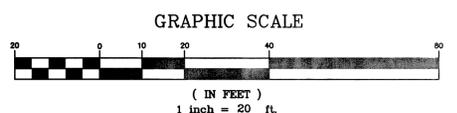


LOCATION MAP (NOT TO SCALE)



- NOTES:**
- ALL PLANT STOCK SHALL CONFORM TO ANSI Z260.1 - NURSERY STOCK, LATEST EDITION (AMERICAN ASSOCIATION OF NURSERYMEN, INC.).
 - 4" AGED PINEBARK MULCH AND A WEED BARRIER (TY-PAR FABRIC OR APPROVED EQUAL) SHALL BE APPLIED TO ALL SHRUB AND GROUNDCOVER BEDS. INSTALL WEED BARRIER AS PER MANUFACTURERS RECOMMENDATIONS.
 - PLANT PIT BACKFILL SHALL BE MIXED AT A RATE OF 7 PARTS OF TOPSOIL TO 2 PARTS OF DEHYDRATED COW MANURE. SLOW RELEASE FERTILIZER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS. USE EXISTING ON-SITE TOPSOIL AS PART OF BACKFILL WHEN AVAILABLE.
 - ALL LANDSCAPED AREAS NOT PLANTED WITH TREES, SHRUBS OR GROUNDCOVER SHALL BE RESTORED WITH SEED OR SOD AS INDICATED ON PLANS.
 - ALL SOD, SEED, SHRUB AND TREE AREAS SHALL RECEIVE 6" PH CORRECTED TOPSOIL. AFTER TOPSOIL IS SPREAD EVENLY OVER ENTIRE AREA, ALL CLODS, LUMPS, STONES AND OTHER DELETERIOUS MATERIAL SHALL BE RAKED UP AND REMOVED.
 - APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW:

LIMESTONE:	100 LBS./1,000 SQUARE FEET.
FERTILIZER:	500 LBS./ACRE OF 10-20-20 OR 1000 LBS./ACRE OF 5-10-10.
MULCH:	HAY MULCH APPROXIMATELY 3 TONS/ACRE
SEED MIX (SLOPES LESS THAN 4:1)	LBS./ACRE
CREeping RED FESCUE	20
TALL FESCUE	15
BIRDSFOOT TREFFOIL	5
PERENNIAL RYEGRASS	42
SLOPE MIX (SLOPES GREATER THAN 4:1)	LBS./ACRE
CREeping RED FESCUE	20
TALL FESCUE	20
BIRDSFOOT TREFFOIL	8
	48
 - FOR TEMPORARY EROSION CONTROL NOTES, SEE EROSION CONTROL PLAN.
 - NEWLY GRADED AREAS REQUIRING SLOPE PROTECTION OUTSIDE OF NORMAL SEEDING SEASON SHALL RECEIVE STRAW MULCH AT THE APPROXIMATE RATE OF NO MORE THAN 3 TONS PER ACRE.
 - ANY CHANGES IN PLANT LOCATIONS OR TYPES SHALL BE APPROVED BY THE DEVELOPER AND TOWN PRIOR TO INSTALLATION.
 - PLANTINGS SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR AFTER WRITTEN ACCEPTANCE OF THE DEVELOPER.
 - EXPOSED SOILS SHALL BE SEEDED OR HAY MULCHED WITHIN 72 HOURS OF FINAL GRADING.
 - ALL WORK SHALL BE COORDINATED WITH APPLICABLE EPA NPDES/SWPPP PERMIT WORK AS REQUIRED.
 - THE CONTRACTOR SHALL INSTALL AN IRRIGATION SYSTEM TO PROVIDE COMPLETE COVERAGE OF ALL SEED, SOD AREAS AND SHRUB BEDS. THE SYSTEM SHALL INCLUDE A TIMER WITH RAIN SENSOR AND SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.



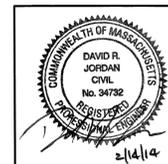
LEGEND

○	UTILITY POLE	—	OVERHEAD SERVICE WIRES
⊙	DRAIN MANHOLE	—	DOUBLE SOLID YELLOW LINE
⊙	SEWER MANHOLE	—	SINGLE SOLID WHITE LINE
⊙	TELEPHONE MANHOLE	+	SIGN
□	CATCH BASIN	⊕	OBSERVATION WELL
—	WATER LINE	—	TREELINE
—	WATER VALVE	—	CONTOUR ELEVATION
—	FIRE HYDRANT	—	GAS LINE
—	GAS VALVE	○	NUMBER OF PARKING SPACES

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1-800-485-5844

OWNERS OF RECORD:

MAP 65 LOT 299 TOMI, LLC C/O HYLAN AUTO SALES MIDDLEBOROUGH, MA 02346 BOOK 32570 PAGE 63	MAP 65 LOT 372 EUGENE & CAROLINE WELDON 147 WOOD STREET MIDDLEBOROUGH, MA 02346 BOOK 10506 PAGE 2	MAP 65 LOT 1112 N/F SEVEN HILL TRUST ERNESTO V. CAPARRATA, TRUSTEE 195 LIBBEY PARKWAY, UNIT 2 WEYMOUTH, MA 02189 BOOK 37512 PAGE 70
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DATE	REV. BY	DESCRIPTION	REVISIONS
2/14/14	CMT	REVISE BUFFER PLANTINGS	

69,179 SQUARE FEET
1.588± ACRES

V #X
Store #X
Gas Station#
Facility #X

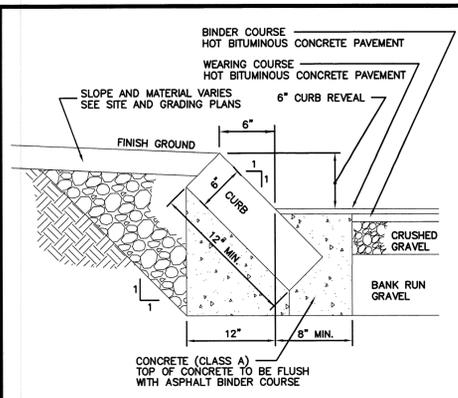
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Cumberland FARMS
CUMBERLAND FARMS INC.
100 CROSSING BLVD.
FRAMINGHAM, MA 01702

SCALE: 1" = 20'
DATE: DECEMBER 9, 2013
FILE: 33475P.dwg
DRAWN BY: MHF
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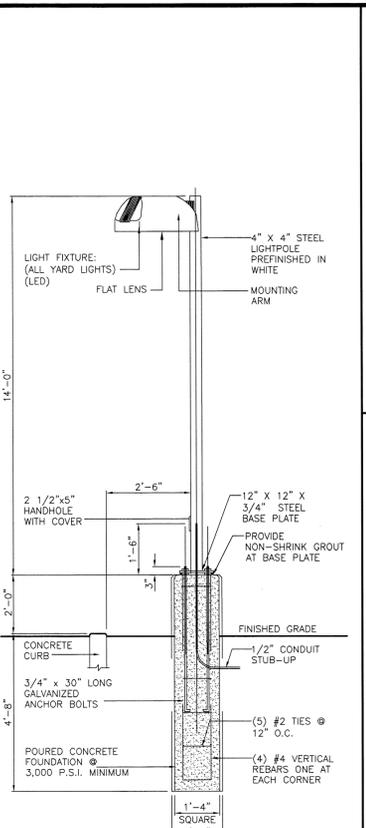
LANDSCAPE PLAN



RADIUS FOR STONES WITH SQUARE JOINTS	RADIUS FOR STONES WITH RADIAL JOINTS	MAXIMUM LENGTH
16'-28'		1'-6"
29'-41'		2'
42'-55'	SEE CURB SECTIONS ON RADIAL DETAIL	3'
56'-68'		4'
69'-82'		5'
83'-96'		6'
97'-110'		7'
OVER 110'		8'

1. MAXIMUM LENGTH OF STRAIGHT CURB STONES - 18'
2. MINIMUM LENGTH OF STRAIGHT CURB STONES - 8'
3. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES SEE CHART
4. ADJOINING STONES OF STRAIGHT CURB LAID ON CURVES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
5. SEE PAVEMENT DETAIL FOR SPECIFICATIONS ON PAVEMENT AND GRAVEL.

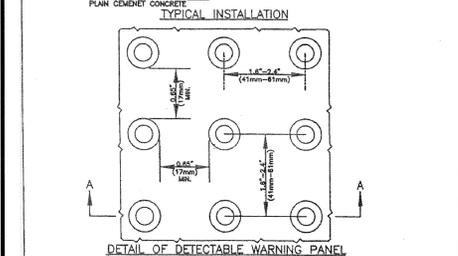
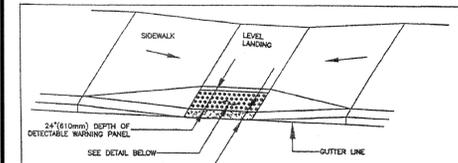
SLOPED GRANITE CURB (ONSITE)
NOT TO SCALE



NOTE: FURNISHED BY OWNER, INSTALLED BY G.C.; LIGHT FIXTURE, MOUNTING ARM, POLE, ANCHOR BOLTS, NUTS, AND WASHERS BY OWNER, ALL OTHER MATERIALS FURNISHED AND INSTALLED BY G.C.

SEE LSI LIGHTING PLAN FOR DETAILS

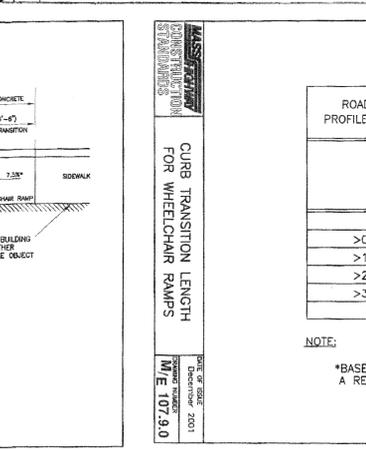
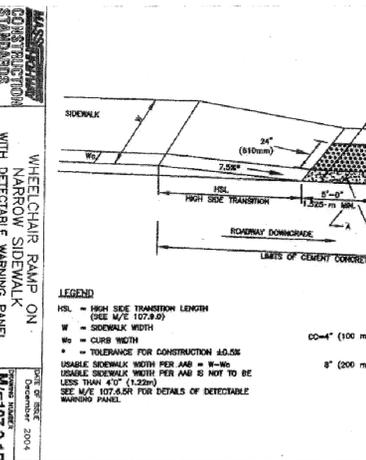
LIGHT POLE DETAIL
NOT TO SCALE



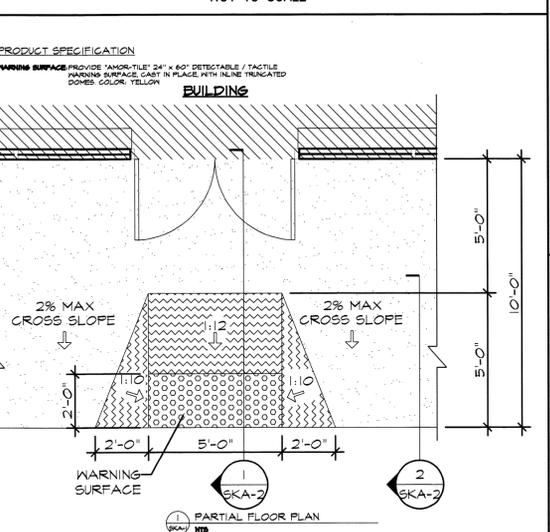
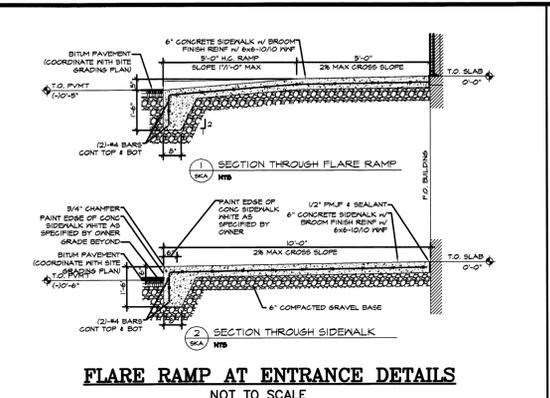
NOTE: PANELS MAY BE CONCRETE PRECAST OR CAST IN PLACE OR OTHER SUITABLE MATERIAL PERMANENTLY APPLIED TO THE RAMP. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-OR-DARK, OR DARK-OR-LIGHT

DETECTABLE WARNING PANEL FOR WHEELCHAIR RAMPS

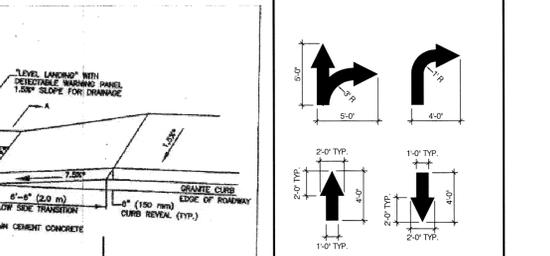
DATE OF ISSUE: December 2004
DRAWING NUMBER: M/E 107.6.5R



NOTE: *BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 150 mm (6").



FLARE RAMP AT ENTRANCE PLAN
NOT TO SCALE

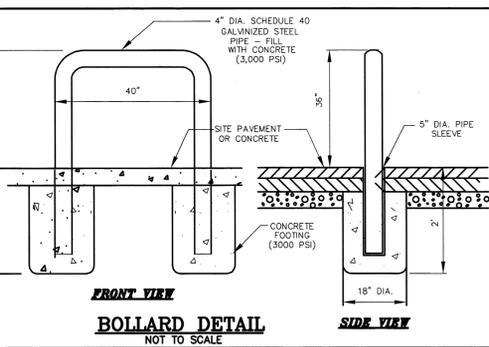
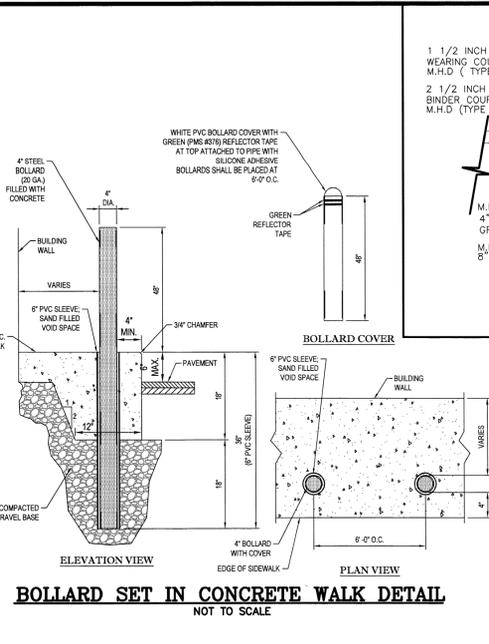


ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE.

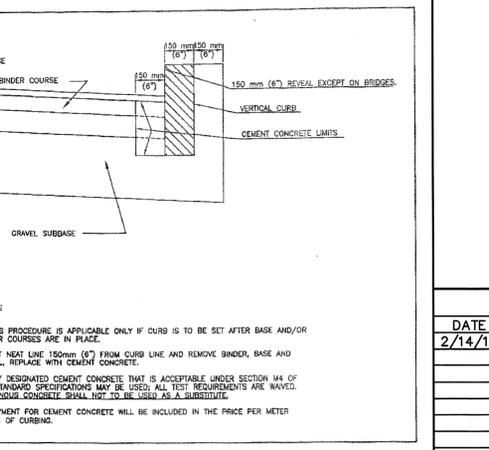
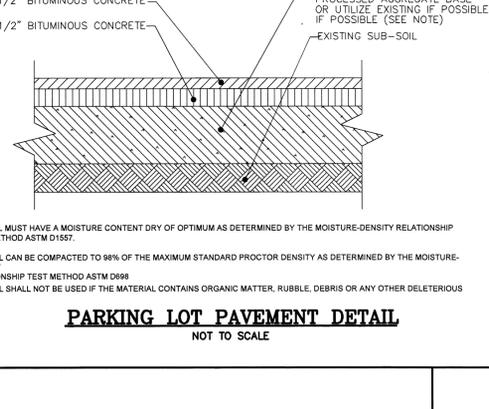
ON-SITE PAVEMENT MARKING DETAILS
NOT TO SCALE

ROADWAY PROFILE GRADE	*HIGH SIDE TRANSITION LENGTH	
%	METRIC UNITS	ENGLISH UNITS
0	2.0 m	6'-6"
>0 ≤ 1	2.3 m	7'-8"
>1 ≤ 2	2.7 m	9'-0"
>2 ≤ 3	3.3 m	11'-0"
>3 ≤ 4	4.3 m	14'-0"
>4	4.6 m Max	15'-0" Max

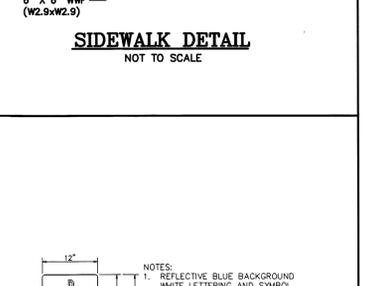
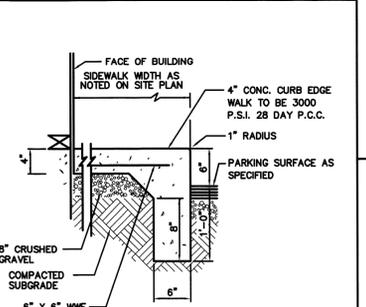
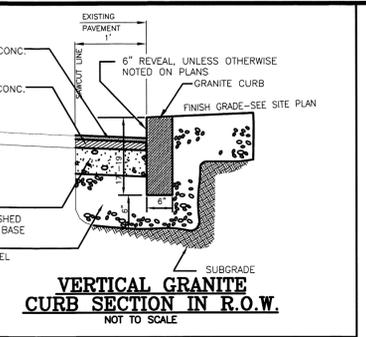
NOTE: *BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 150 mm (6").



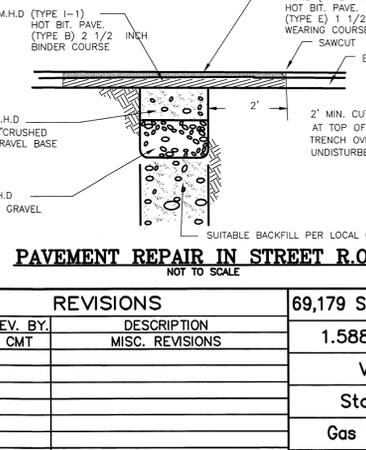
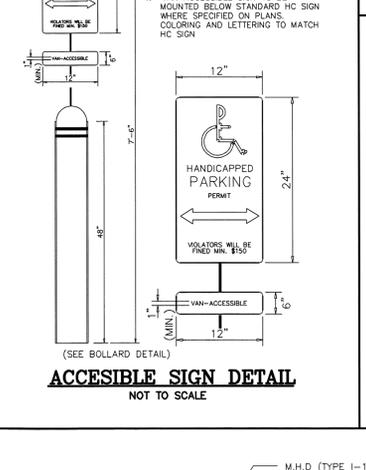
BOLLARD SET IN CONCRETE WALK DETAIL
NOT TO SCALE



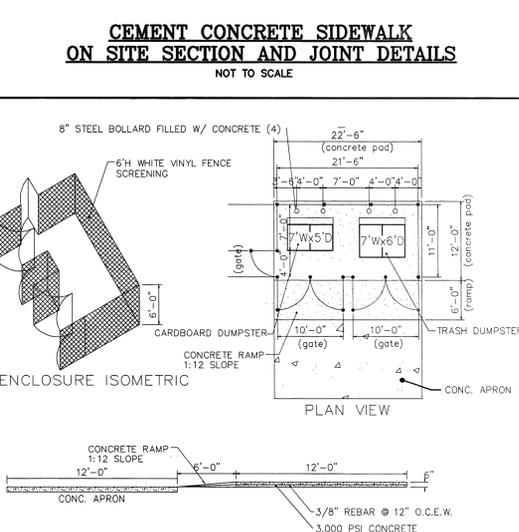
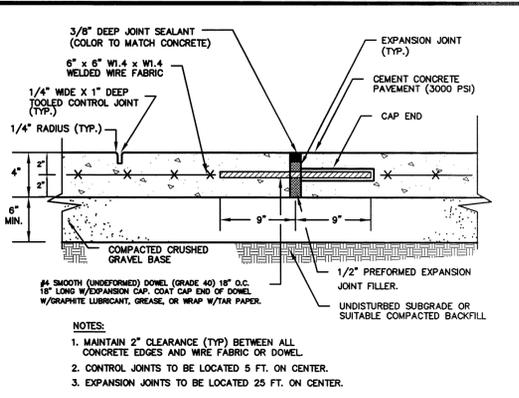
NOTE: 1. THIS PROCEDURE IS APPLICABLE ONLY IF CURB IS TO BE SET AFTER BASE AND/OR BINDER COURSES ARE IN PLACE.
2. CUT NEAT LINE 150mm (6") FROM CURB LINE AND REMOVE BINDER, BASE AND GRAVEL. REPLACE WITH CEMENT CONCRETE.
3. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION 14 OF THE STANDARD SPECIFICATIONS MAY BE USED; ALL TEST REQUIREMENTS ARE MAINTAINED. BINDER COURSE SHALL NOT BE USED AS A SUBSTITUTE.
4. PAYMENT FOR CEMENT CONCRETE WILL BE INCLUDED IN THE PRICE PER METER (FOOT) OF CURBING.



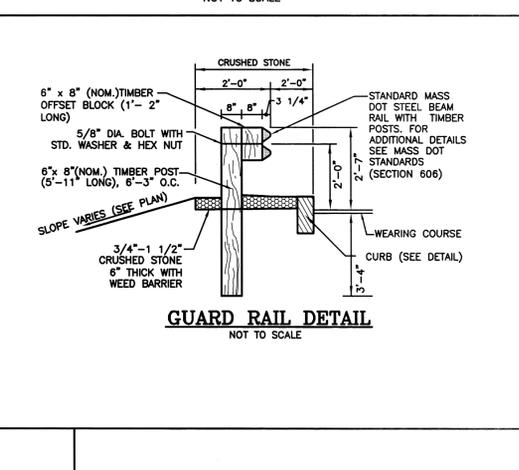
SIDEWALK DETAIL
NOT TO SCALE



REVISIONS		
DATE	REV. BY.	DESCRIPTION
2/14/14	CMT	MISC. REVISIONS



DUMPSTER DETAIL
NOT TO SCALE



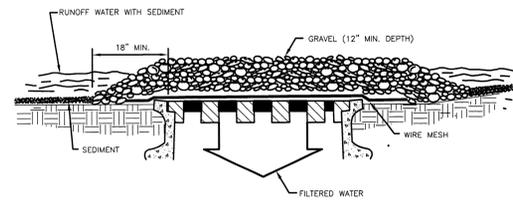
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CHECKED BY: CFG9.0

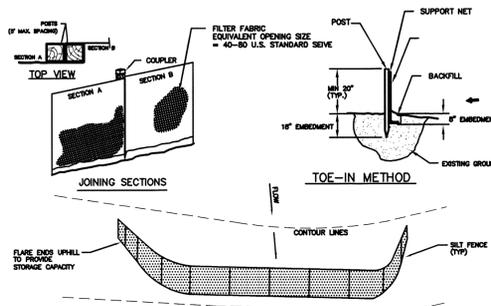


CONSTRUCTION SEQUENCE:

- 1) A WIRE MESH SHOULD BE PLACED OVER THE DROP INLET OR CURB OPENING SO THAT THE ENTIRE OPENING AND A MINIMUM OF 12 INCHES AROUND THE OPENING ARE COVERED BY THE MESH. THE MESH MAY BE ORDINARY HARDWARE CLOTH OR WIRE MESH WITH OPENINGS UP TO 1/2" INCH.
- 2) THE WIRE MESH SHOULD BE COVERED WITH CLEAN COARSE AGGREGATE SUCH AS SEWER STONE FOR A MINIMUM DEPTH OF 12 INCHES.
- 3) THE COARSE AGGREGATE SHOULD EXTEND AT LEAST 18 INCHES ON ALL SIDES OF THE DRAIN OPENING.

MAINTENANCE: ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM THE TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURAL OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

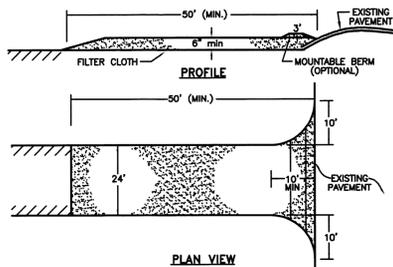
ON-SITE INLET PROTECTION DETAIL
NOT TO SCALE



NOTES:

- 1) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
- 2) MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. 3. ENDS OF THE FENCE SHALL BE PLACED UP CONTOUR OF THE FLOW TO TRAP SEDIMENT.

SEDIMENT CONTROL FENCE
NOT TO SCALE



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE OR RECYCLED CONCRETE EQUIVALENT.

2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM WOULD APPLY.

3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.

4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.

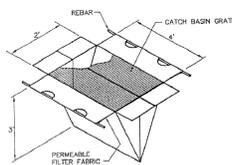
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.

6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.

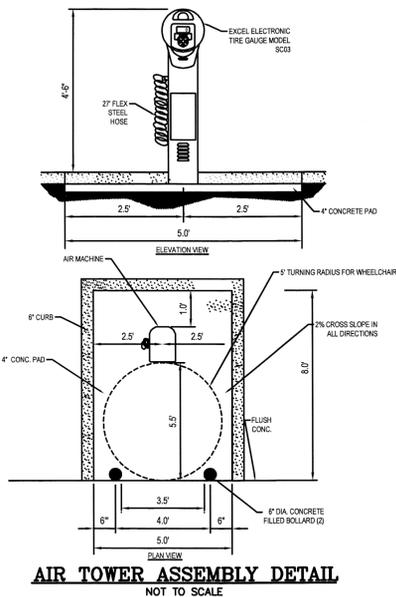
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

8. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

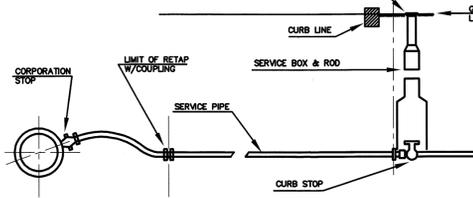
STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



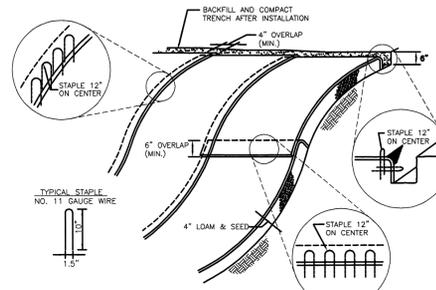
OFF-SITE INLET PROTECTION
NOT TO SCALE



AIR TOWER ASSEMBLY DETAIL
NOT TO SCALE



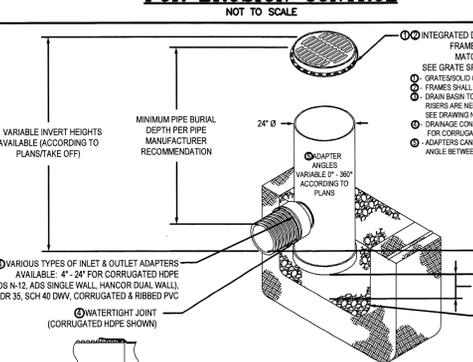
TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE



NOTES:

1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 4" DEEP TRENCH. BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE BLANKET END WITH END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 4 INCH DEEP TRENCH.
5. BLANKET SHALL BE NORTH AMERICAN GREEN 50-150 OR APPROVED EQUAL.

BLANKET SLOPE PROTECTION FOR EROSION CONTROL
NOT TO SCALE



NOTES:

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3. VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 24" FOR CORRUGATED HDPE (ADS N-12, ADS SINGLE WALL HANCOR DUAL WALL), SDR 35, SDR 40 DWV, CORRUGATED & RIBBED PVC.
4. WATER TIGHT JOINT (CORRUGATED HDPE SHOWN).
5. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS 1 MATERIAL AS DEFINED IN ASTM D2212. BEDDING & BACKFILL FOR SURFACE DRAINAGE NETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2212.

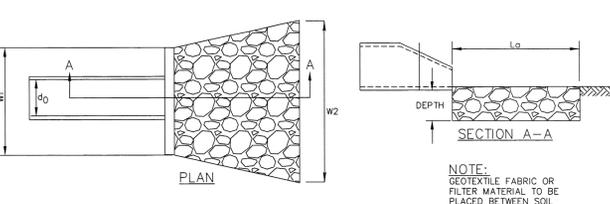
YARD DRAIN DETAIL
(TO BE USED FOR OCS-2)
NOT TO SCALE

MINIMUM VALUES - APPLY RIP RAP PER GRADING PLAN

LOCATION	D ₀	L ₀	W ₁	W ₂	d ₅₀	DEPTH
OUTLET PROTECTION #1 (FES-1)	12"	15'	3'	9'	3"	7"

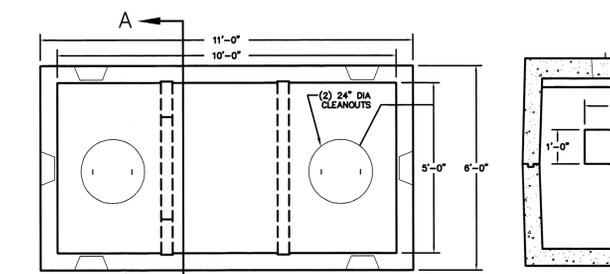
RIP RAP GRADATION TABLE

% OF WEIGHT SMALLER THAN GIVEN SIZE	FOR d ₅₀ = 3"
100	4.5 TO 6.0
85	3.9 TO 5.4
50	3.0 TO 4.5
15	0.9 TO 1.5



RIPRAP OUTLET DETAIL
NOT TO SCALE

THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIPRAP HAS BEEN DISPLACED, UNDERMINED, OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APPROX.

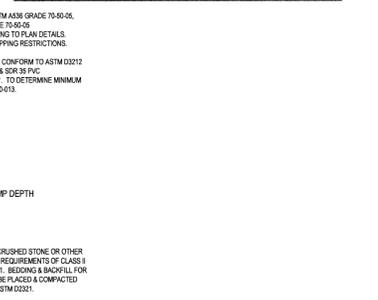
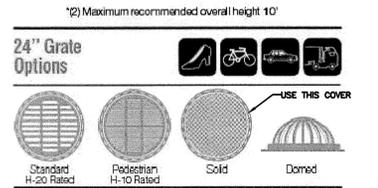


OIL/WATER SEPARATOR DETAIL
NOT TO SCALE

NOTES:

1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGNED FOR H-20 LOADING. ALSO AVAILABLE IN H-10 LOADING WITH 3" WALL.
3. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
4. FIRST CHAMBER SIZING BASED ON DEP CRITERIA OF 400 CF/ACRE OF IMPERVIOUS AREA:
O/W SEP #1: 7,809 SF IMP. AREA = 0.17 AC.
400 CF/AC. x 0.17 AC. = 70 CF
X₁ = 70 CF / (3'x5') = 4'-8"
5. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL.
6. PROVIDE RISERS, FRAME, & COVERS TO GRADE.

ITEM: TK-M1500CSEP
WEIGHT: 24,400LBS

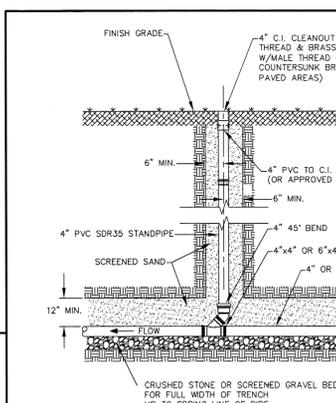


TYPICAL TRENCH SECTION FOR SANITARY SEWER SERVICE WITH LESS THAN 6' OF COVER
NOT TO SCALE

TYPICAL TRENCH SECTION FOR SANITARY SEWER
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

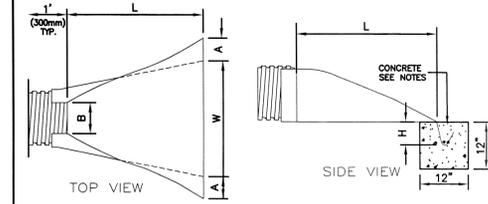
1. THE SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIPRAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
2. THE ROCK OR GRAVEL USED FOR FILTER OR RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION.
3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIPRAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIPRAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
5. RIPRAP SHALL BE PLACED ALONG THE EXISTING SLOPES OF THE CHANNEL TO ELEVATION, SEE GRADING PLAN.



TYPICAL SEWER SERVICE CLEANOUT
NOT TO SCALE

NOTES:

1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGNED FOR H-20 LOADING. ALSO AVAILABLE IN H-10 LOADING WITH 3" WALL.
3. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
4. FIRST CHAMBER SIZING BASED ON DEP CRITERIA OF 400 CF/ACRE OF IMPERVIOUS AREA:
O/W SEP #1: 7,809 SF IMP. AREA = 0.17 AC.
400 CF/AC. x 0.17 AC. = 70 CF
X₁ = 70 CF / (3'x5') = 4'-8"
5. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL.
6. PROVIDE RISERS, FRAME, & COVERS TO GRADE.



PIPE DIAMETER	PART NO.	DIMENSIONS, INCHES (mm)					
		A, ±1	B MAX	H, ±1 (25)	L, ±1/2 (13)	W, ±2 (50)	W, ±2 (50)
12", 15" (300,375)	1210 NP	6.5 (165)	10 (254)	6.5 (165)	25 (635)	29 (736)	
18" (450)	1810 NP	7.5 (190)	15 (380)	6.5 (168)	32 (812)	35 (890)	
24" (600)	2410 NP	7.5 (190)	18 (450)	6.5 (165)	36 (900)	45 (1140)	
30" (750)	3010 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	68 (1725)	
36" (900)	3610 NP	10.5 (266)	NA	7.0 (178)	53 (1346)	68 (1725)	

CONSTRUCTION SPECIFICATIONS:

PREPARE BEDDING:
BACKFILL MATERIAL AROUND THE END SECTION MAY BE THE SAME AS THE MATERIAL AROUND THE PIPE. PLACE A FEW INCHES OF BACKFILL MATERIAL IN THE TRENCH OR DITCH WHERE THE END SECTION WILL BE PLACED. COMPACT AND CONTOUR THIS BEDDING MATERIAL TO GENERALLY MATCH THE END SECTION. EXCAVATE AN AREA IN THE BEDDING WHERE THE TROUGH WILL SET SO THAT THE END SECTION WILL BE LEVEL WITH THE BOTTOM OF THE TRENCH OR DITCH IN THE FINISHED INSTALLATION.

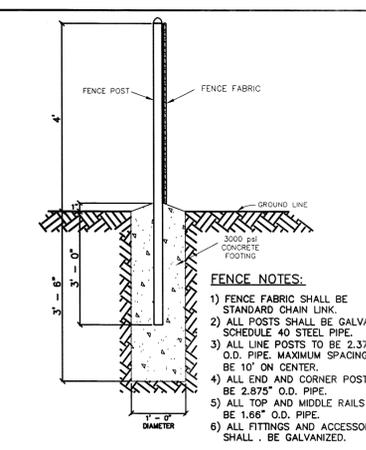
PLACE END SECTION OF PIPE:
OPEN THE END SECTION COLLAR AND SET IT OVER THE TWO PIPE CONNECTIONS. ONCE THE END SECTION IS POSITIONED, CHECK TO MAKE SURE THAT THE INVERT OF THE END SECTION MATCHES THE INVERT OF THE PIPE AND THAT THE END SECTION IS LEVEL WITH THE TRENCH OR DITCH BOTTOM.

SECURE THE END SECTION:
SLIP THE STAINLESS STEEL ROD THROUGH THE PRE-DRILLED HOLES AT THE TOP OF THE COLLAR. THE ROD SHOULD BE BETWEEN THE CROWNS OF THE TWO PIPE CONNECTIONS. PLACE A WASHER ON EITHER END OF THE ROD. PLACE A NUT ON EITHER END OF THE ROD AND TIGHTEN WITH A WRENCH.

SECURE THE TROUGH:
TO PREVENT WASHOUTS FROM HIGH VELOCITY FLOW, IT IS RECOMMENDED THAT THE TROUGH BE SECURED WITH CONCRETE. POUR CONCRETE IN THE TROUGH UP TO THE LEVEL OF THE TRENCH OR DITCH BOTTOM AND ALONG THE ENTIRE LENGTH OF THE TROUGH.

FINISH BACKFILL:
SHOVEL BACKFILL AROUND THE END SECTION IN 6 TO 9 INCH LAYERS EQUALLY ON BOTH SIDES, KNIFING IT TO ELIMINATE VOIDS. TAMP WITH A SMALL-FACED COMPACTOR OR OTHER EQUIPMENT SUITABLE FOR SMALL AREAS. CONTINUE PLACING, KNIFING, AND COMPACTING BACKFILL LAYERS TO THE TOP OF THE END SECTION TO SEAT IT WELL INTO THE BACKFILL.

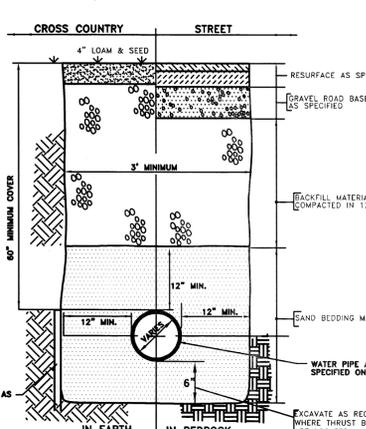
FLARED END SECTION HIGH DENSITY POLYETHYLENE (HDPE)
NOT TO SCALE



CHAIN LINK FENCE DETAIL
NOT TO SCALE

FENCE NOTES:

1. FENCE FABRIC SHALL BE STANDARD CHAIN LINK.
2. ALL POSTS SHALL BE GALVANIZED SCHEDULE 40 STEEL PIPE.
3. ALL LINE POSTS TO BE 2.375" O.D. PIPE. MAXIMUM SPACING TO BE 10' ON CENTER.
4. ALL END AND CORNER POSTS TO BE 2.875" O.D. PIPE.
5. ALL TOP AND MIDDLE RAILS TO BE 1.66" O.D. PIPE.
6. ALL FITTINGS AND ACCESSORIES SHALL BE GALVANIZED.



TYPICAL TRENCH SECTION FOR WATER SERVICE
NOT TO SCALE

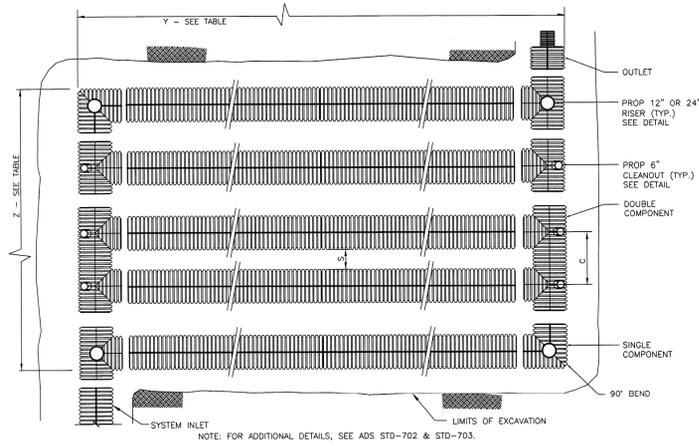
REVISIONS			69,179 SQUARE FEET
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			Store #X
			Gas Station#
			Facility #X

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Cumberland Farms
CUMBERLAND FARMS INC.
100 CROSSING BLVD.
FRAMINGHAM, MA 01702

MIDDLEBOROUGH, MA
SCALE: AS NOTED
DATE: DECEMBER 9, 2013
FILE: 3347DET2.dwg
DRAWN BY: RGW
CHECKED BY: CFG9.1

MHF PROJECT NO. 334713 SHEET 10 OF 11



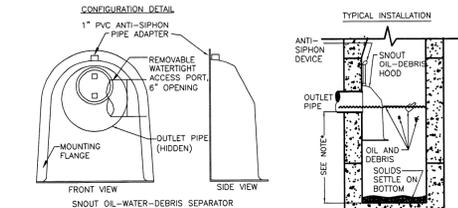
INFILTRATION SYSTEM NOTES:

- 1) ALL SITE DRAINAGE PIPE SHALL BE CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE, DUAL WALL, SMOOTH INTERIOR AS MANUFACTURED BY ADS, INC., OR APPROVED EQUAL, UNLESS OTHERWISE NOTED ON PLAN.
- 2) CONTRACTOR SHOULD CONFIRM SYSTEM PARTS AND OBTAIN SHOP DRAWINGS FROM MANUFACTURER. SUBSTITUTIONS AND SHOP DRAWINGS SHOULD BE APPROVED BY THE ENGINEER.
- 3) PARTS SPECIFICATIONS SHOWN ARE AS PROVIDED BY ADS, INC., OR APPROVED EQUAL. ANY CHANGES TO THESE SPECIFICATIONS SHOULD BE APPROVED BY DESIGN ENGINEER FOR PERFORMANCE.

UNDERGROUND STORMWATER INFILTRATION SYSTEM TABLE						
UG INFILTRATION SYSTEM	LENGTH (Y)	WIDTH (Z)	SPACING (C) (O.C. TYP.)	PIPE SIZE (INCHES)	INVT. PIPE ELEV. (A)	# PIPE ROWS
INFILTRATION SYS-1	40'	11.8'	25.4"	12" (PERF.)	98.75	6

* SEE TYPICAL CROSS SECTIONS BELOW

UNDERGROUND INFILTRATION SYSTEM LAYOUT
NOT TO SCALE



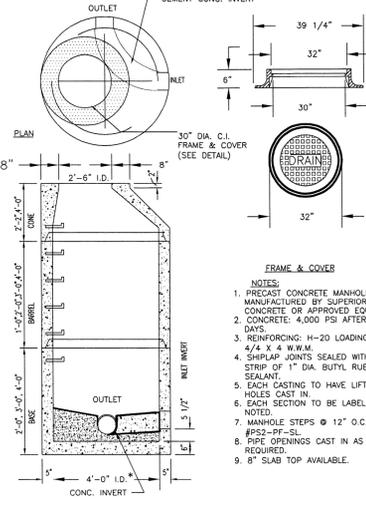
- NOTES:**
1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC. 53 WY. ARCHER RD., LYME, CT 06371 (860) 434-0277 (860) 434-3195 FAX TOLL FREE: (800) 504-8088 OR (888) 354-7585 WEB SITE: www.bestmp.com OR PRE-APPROVED EQUAL.
 2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
 3. ALL HOODS SHALL BE EQUIPPED WITH A WATER-TIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN (SEE CONFIGURATION DETAIL).
 4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
 5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
 6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
 7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
 8. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL).
 9. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:
 - A. INSTALLATION INSTRUCTIONS
 - B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
 - C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
 - D. 3/8" STAINLESS STEEL BOLTS
 - E. ANCHOR SHIELDS

SNOUT - OIL - WATER - DEBRIS SEPARATOR
NOT TO SCALE

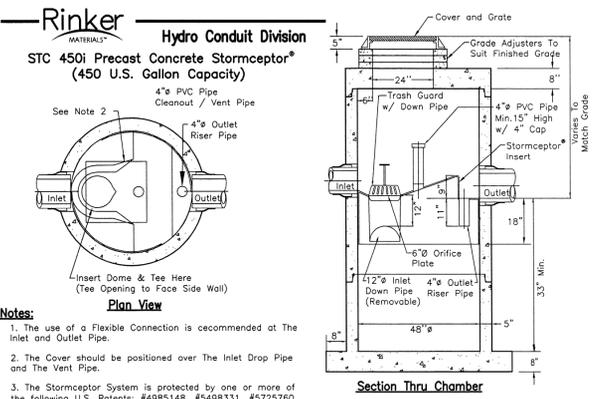
PRECAST CONCRETE CATCH BASIN WITH HOOD
NOT TO SCALE

- NOTES:**
1. PRECAST CONCRETE CATCH BASIN AS MANUFACTURED BY SUPERIOR CONCRETE OR APPROVED EQUAL.
 2. CONCRETE 4,000 PSI AFTER 28 DAYS.
 3. REINFORCING: H-20 LOADING, 4 X 4/4 X 4 W.W.M. SLAB TOP -NO. 5'S @ 8" O.C.
 4. SHIP-LAP JOINTS SEALED WITH 1 STRIP OF 1" DIA BUTYL RUBBER SEALANT.
 5. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
 6. EACH SECTION TO BE LABELED AS NOTED.

PRECAST CONCRETE DRAIN MANHOLE
MAXIMUM PIPE DIAMETER 30" NOT TO SCALE



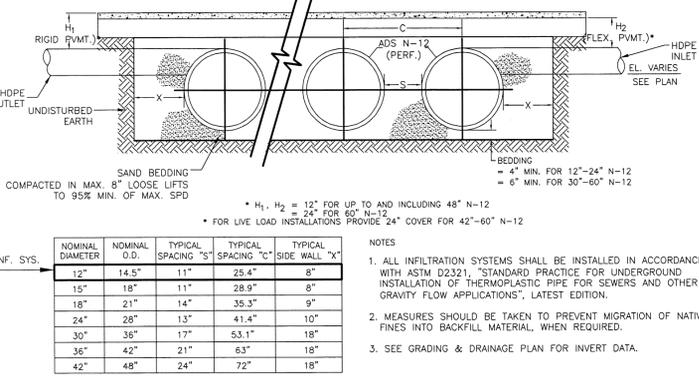
PRECAST CONCRETE DRAIN MANHOLE
MAXIMUM PIPE DIAMETER 30" NOT TO SCALE



STORMCEPTOR DETAIL (STC-450i)
NOT TO SCALE

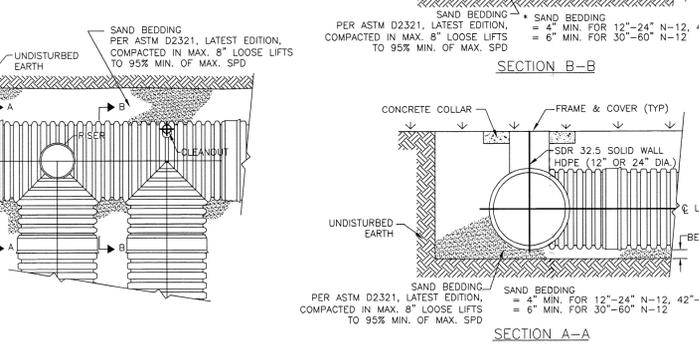
- NOTES:**
1. The use of a Flexible Connection is recommended at the Inlet and Outlet Pipe.
 2. The Cover should be positioned over the Inlet Drop Pipe and the Vent Pipe.
 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #598331, #5725760, #5753115, #5849181, #6068765, #6371690. 4. Contact a Hydro Conduit representative for further details not listed on this sheet.

ANTI-SEEP COLLAR DETAIL FOR DETENTION BASIN OUTLET
NOT TO SCALE

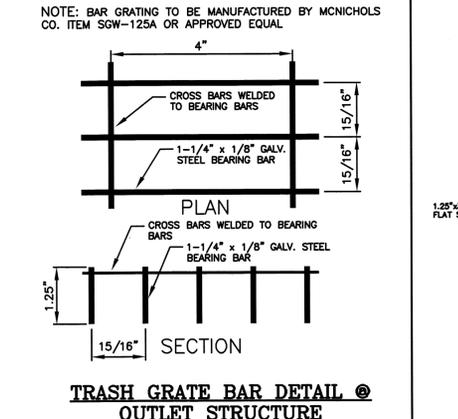


UNDERGROUND INFILTRATION SYSTEM CROSS SECTION
NOT TO SCALE

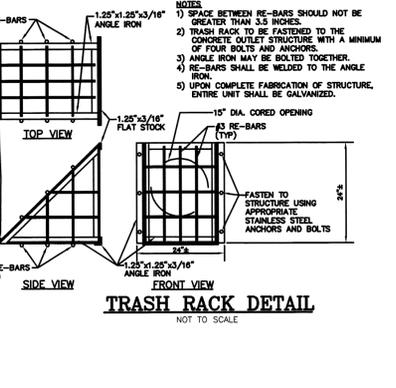
NOMINAL DIAMETER	NOMINAL D.O.D.	TYPICAL SPACING "S"	TYPICAL SPACING "C" SIDE WALL "X"	TYPICAL SPACING "C" END WALL "Y"
12"	14.5"	11"	25.4"	8"
15"	18"	11"	28.9"	8"
18"	21"	14"	35.3"	9"
24"	28"	13"	41.4"	10"
30"	36"	17"	53.1"	18"
36"	42"	21"	63"	18"
42"	48"	24"	72"	18"



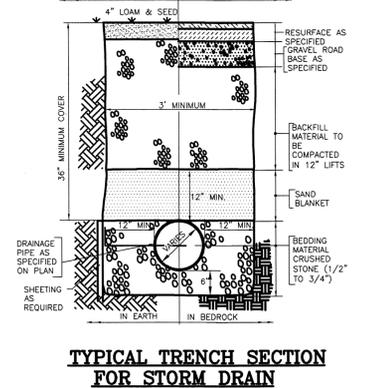
TYPICAL RISER AND CLEANOUT DETAILS
NOT TO SCALE



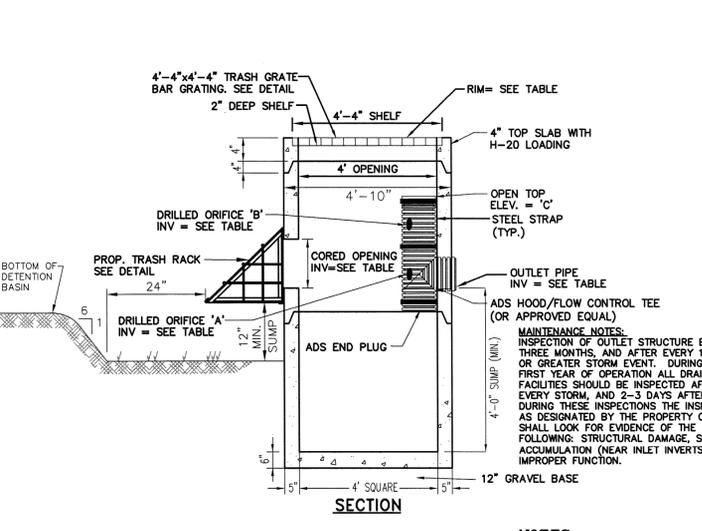
TRASH GRATE BAR DETAIL @ OUTLET STRUCTURE
NOT TO SCALE



TRASH RACK DETAIL
NOT TO SCALE



TYPICAL TRENCH SECTION FOR STORM DRAIN
NOT TO SCALE



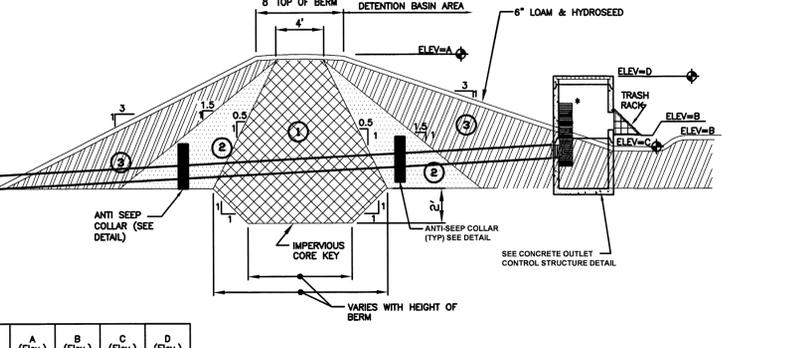
OUTLET CONTROL STRUCTURE TABLE								
OCS	RIM	ORIFICE	SIZE (IN.)	ELEV.	IN/IN (SIZE)	INV/OUT (ELEV.)	INV/OUT (ELEV.)	
#1	98.50	A	3"	95.50	15"	95.50	12"	95.50
		B	8"	96.70				
		C	12"	97.75				

CONCRETE OUTLET CONTROL STRUCTURE (OCS#1)
NOT TO SCALE

- NOTES:**
1. PRECAST CONCRETE MAN HOLE AS MANUFACTURED BY SUPERIOR CONCRETE OR APPROVED EQUAL.
 2. CONCRETE 4,000 PSI AFTER 28 DAYS.
 3. REINFORCING: H-20 LOADING, 4 X 4/4 X 4 W.W.M. SLAB TOP -NO. 5'S @ 8" O.C.
 4. SHIP-LAP JOINTS SEALED WITH 1 STRIP OF 1" DIA BUTYL RUBBER SEALANT.
 5. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
 6. LENGTH AND DIAMETER OF TEE VARIES WITH PIPE.

- DETECTION BASIN CONSTRUCTION:**
- 1) CLEAR AND GRUB THE AREA WHERE THE BASIN IS TO BE LOCATED. STOCKPILE LOAM FOR REUSE ON SLOPES.
 - 2) THE FOUNDATION AREA SHALL BE SCARIFIED PRIOR TO PLACING FILL. ALL UNSUITABLE MATERIAL UNDER THE EMBANKMENT SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION MATERIAL.
 - 3) FILL MATERIAL SHALL BE FREE OF ORGANICS, FROZEN SOIL AND ROCKS GREATER THAN 6" IN DIAMETER.
 - 4) SELECT MATERIALS SHALL BE PLACED AROUND STRUCTURES, PIPES, AND FILTER BARRIERS. PLACE SELECT MATERIAL IN MAXIMUM 8" LIFTS COMPACTED TO 95% MAXIMUM PROCTOR DENSITY.
 - 5) THE EMBANKMENT SHALL BE CONSTRUCTED BEGINNING FROM THE LOWEST POINT UNIFORMLY ALONG ITS ENTIRE LENGTH. PLACE MAXIMUM 8" LIFTS COMPACTED TO 95% MAXIMUM PROCTOR DENSITY.

- BERM MATERIALS**
- 1) IMPERVIOUS CORE (CLAY, SILT, & SAND) SHALL CONFORM TO ASTM D 2321 HAVING A COEFFICIENT OF PERMEABILITY OF 1 X 10 CM/SEC AND MEET THE GRADATION AS FOLLOWS:
ROLLED TO 8" LAYERS (95% COMPACTION)



TYPICAL DETENTION BASIN CROSS SECTION
NOT TO SCALE

DETENTION BASIN	ELEVATION			
	A (Elev.)	B (Elev.)	C (Elev.)	D (Elev.)
	99.00	95.50	94.50	98.50

TYPICAL DETENTION BASIN CROSS SECTION
NOT TO SCALE

REVISIONS		69,179 SQUARE FEET	1.588 ACRES	V #X	Store #X	Gas Station#	Facility #X
DATE	REV. BY.						

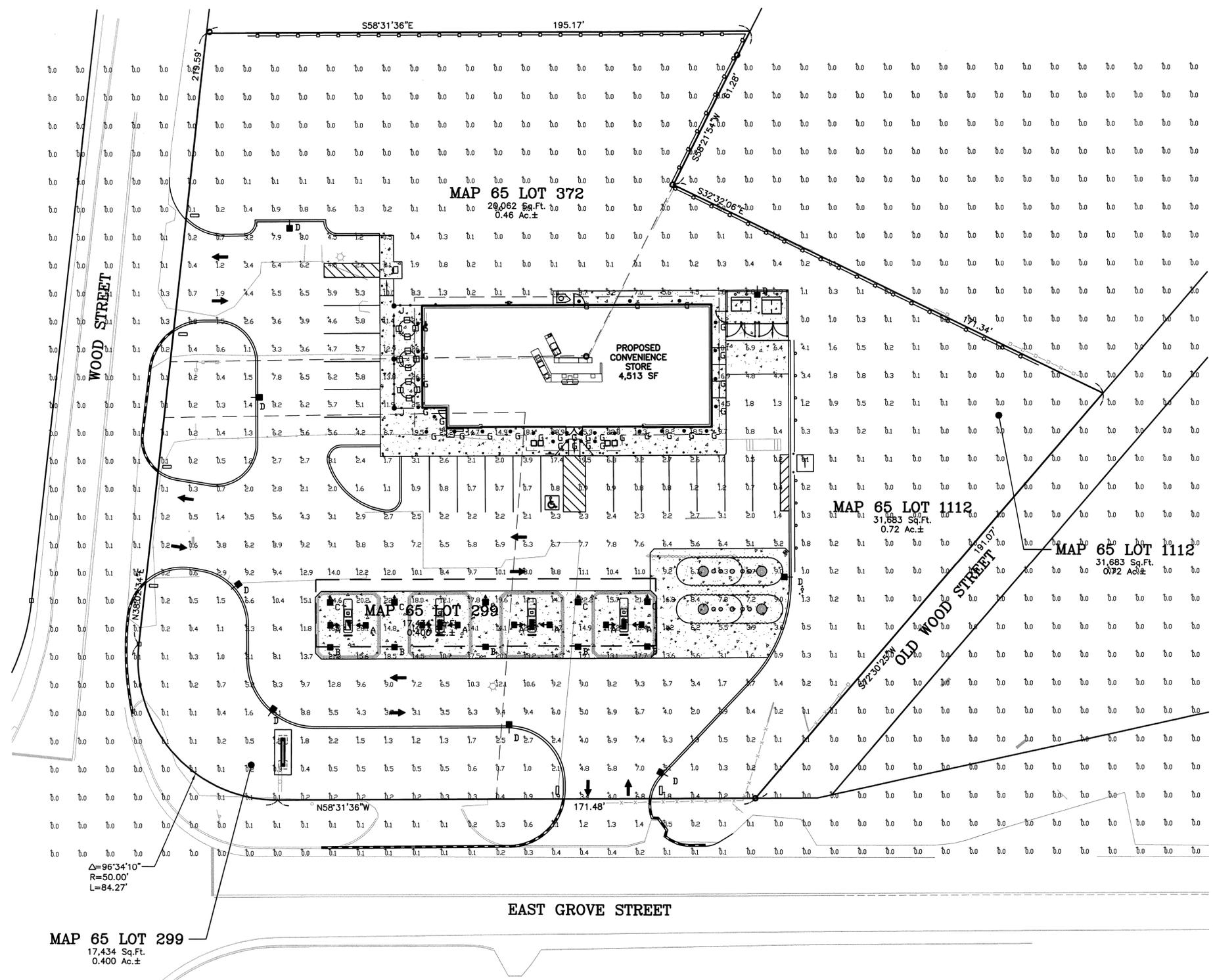
MHF Design Consultants, Inc.
90 EAST GROVE STREET
MIDDLEBOROUGH, MA
44 Shiles Road, Suite One
Salem, New Hampshire 03079
(603) 893-0720
ENGINEERS • PLANNERS • SURVEYORS
www.mhfdesign.com

Cumberland Farms
CUMBERLAND FARMS INC.
100 CROSSING BLVD.
FRAMINGHAM, MA 01702

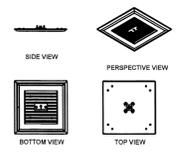
SCALE: AS NOTED
DATE: DECEMBER 9, 2013
FILE: 3347DET3.dwg
DRAWN BY: RGW
CHECKED BY: CFG9.2

MHF PROJECT NO. 334713 SHEET 11 OF 11

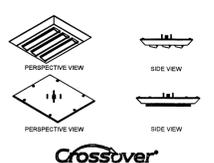
\\MHF-NAS\Company Data\Projects\CAD\334713\VENOOR FILES\CFG10.0.dwg Model 2/14/14 12:48pm ccc



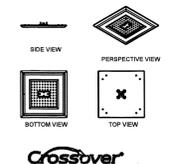
CRS-AC-LED-84
LED Crossover Gold Asymmetric Canopy Light



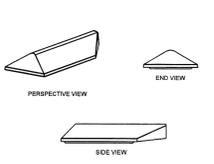
CRO3-FO
LED Crossover Focus Light



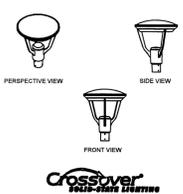
CRS-SC-LED-84
LED Crossover Gold Symmetric Canopy Light



XAMU
LED Crossover Area Light



XENM3 PT
LED Crossover Area Light



Initial Footcandle levels at grade.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	210	45.3	0.0	N.A.	N.A.
VERTICAL PUMP__	Illuminance	Fc	49.66	90.8	19.7	2.52	4.61
CANDPY	Illuminance	Fc	17.32	26.1	11.7	1.48	2.23
INSIDE CURB	Illuminance	Fc	5.70	19.5	0.2	28.50	97.50

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	LLF	Lumens/Lamp	Arr. Lum. Lumens	Arr. Watts	
➔	8	A	SINGLE	CRO3-FO-LED-30-CW-UE	1.000	N.A.	2674	36.1	
➔	5	B	SINGLE	CRS-SC-LED-84-SS-CW-UE	1.000	N.A.	10747	97	
➔	5	C	SINGLE	CRS-AC-LED-84-SS-CW-UE	1.000	N.A.	10367	98	
➔	8	D	SINGLE	XAMU-FT-LED-128-SS-CW-HSS-UE-14'POLE + 2' BASE	1.000	N.A.	10182	136	
●	30	G	SINGLE	DM6LED27-R6LED40KWCS (FIXTURE BY OTHER)	1.000	N.A.	1738	27	
●	3	J	SINGLE	XENM3-PT-5-LED-63-450-CW-UE-7MH	1.000	N.A.	5027	96.6	

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted.

Total Project Watts
Total Watts = 3451.6

REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	MISC. REVISIONS	MHF	2/14/14

PROJECT: LIGHTING PROPOSAL LD-118409-1

CLIENT: CUMBERLAND FARMS MIDDLEBORO, MA

DATE: 2/14/14

SCALE: 1"=20'

BY: MHF DATE: 2/14/14

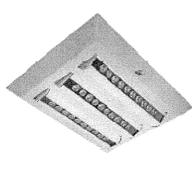
REV: 1/26/13

CFG10.0

0 20

FIXTURE SPECIFICATION SHEETS - CFG 10.1

GENERATION 3 LED FOCUS CANOPY LIGHT (CRDS)



UL listed (UL1881 & UL2595) in US and IEC 60598-1-1, pending pending

LEDs - Select high-brightness LEDs, 5000K color temperature, 70 CRI (nominal).

OPTICS / DISTRIBUTION - Ultra-high efficiency optics provide precise beam placement for optimal visual outcomes. Each bank of LEDs in light carriage is independently adjustable because of 45° allowing targeted area illumination. Reposition of light carriage provides horizontal beam control.

OPTICAL UNIT - Featuring a clear polycarbonate lens, housing in die-cast aluminum with independently adjustable extruded aluminum light carriage. Each light carriage is independently adjustable because of 45° allowing targeted area illumination. Reposition of light carriage provides horizontal beam control.

DRIVER - State-of-the-art driver technology designed specifically for LED lighting systems provides exceptional system efficiency, input power to 50 watts. Components are fully enclosed in potting for moisture resistance. Driver complies with IEC and FCC standards.

DRIVER HOUSING - Weather-tight aluminum die-cast enclosure is oriented above canopy track to ensure an airtight seal and providing "back-out" entry for primary wiring.

FINISH - Standard color is white. Finish is finished with LSI's Duragrip® polymer powder coat process. Duragrip® withstands extreme weather changes without cracking or peeling.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

ELECTRICAL - Universal voltage power supply 120-277VAC (0-600 Hz input, two-stage surge protection (backlash response surge protection built into electronic driver) meets IEEE C62.41.2-2002, Category II, Location Category C.

INSTALLATION - Includes a 1" or 1/2" thick pin. Check penetration outside of 1/2" depth hole (4") hole as well as openings for Escorp® and Escorp® Top Access and to recommend wiring from the BGEETA voltage lead to indicate correct. Electrical permits are available for existing Canopy and Escorp (see back page) as well as hole for new and 2" depth hole (see separate spec sheet).

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidelines.

WARRANTY - Limited 5-year warranty.

LISTING - ETL listed to UL 1881, UL2595 and other U.S. and International safety standards. Suitable for wet locations.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Applications Lighting or applications@led-lighting.com.

LED lighting facts™

Light Output (Lumens)	5272
Watts	38.1
Lumens per Watt (Efficacy)	89
Color Accuracy (Color Rendering Index, CRI)	67
Light Color (Color Temperature, CCT)	5250 (Daylight)
Warm White	3000K
Daylight	5000K
Warranty**	Yes

Approved by the U.S. Department of Energy (DOE) as a Qualified Product (QP) under the Energy Star program. For more information, visit www.ledlightingfacts.com.

** See www.lightingfacts.com/products for details.

LIGHT OUTPUT - CRDS

Beam Angle	Lumens (Nominal)	Input Power (40 Watts)
15°	1000	40 Watts
30°	2000	40 Watts
45°	3000	40 Watts
60°	4000	40 Watts
75°	5000	40 Watts
90°	6000	40 Watts

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



FIXTURE LABEL = A

LED AMBIENT CANOPY LIGHT (CRB)



CRB & CRD Accessories Are For Use on Canopy with 1/2" Pinless Drive

UL listed (UL1881 & UL2595) in US and IEC 60598-1-1, pending pending

LEDs - Select high-brightness LEDs, 5000K color temperature, 70 CRI (nominal).

OPTICS / DISTRIBUTION - Ultra-high efficiency optics provide precise beam placement for optimal visual outcomes. Each bank of LEDs in light carriage is independently adjustable because of 45° allowing targeted area illumination. Reposition of light carriage provides horizontal beam control.

OPTICAL UNIT - Featuring a clear polycarbonate lens, housing in die-cast aluminum with independently adjustable extruded aluminum light carriage. Each light carriage is independently adjustable because of 45° allowing targeted area illumination. Reposition of light carriage provides horizontal beam control.

DRIVER - State-of-the-art driver technology designed specifically for LED lighting systems provides exceptional system efficiency, input power to 50 watts. Components are fully enclosed in potting for moisture resistance. Driver complies with IEC and FCC standards.

DRIVER HOUSING - Weather-tight aluminum die-cast enclosure is oriented above canopy track to ensure an airtight seal and providing "back-out" entry for primary wiring.

FINISH - Standard color is white. Finish is finished with LSI's Duragrip® polymer powder coat process. Duragrip® withstands extreme weather changes without cracking or peeling.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

ELECTRICAL - Universal voltage power supply 120-277VAC (0-600 Hz input, two-stage surge protection (backlash response surge protection built into electronic driver) meets IEEE C62.41.2-2002, Category II, Location Category C.

INSTALLATION - Includes a 1" or 1/2" thick pin. Check penetration outside of 1/2" depth hole (4") hole as well as openings for Escorp® and Escorp® Top Access and to recommend wiring from the BGEETA voltage lead to indicate correct. Electrical permits are available for existing Canopy and Escorp (see back page) as well as hole for new and 2" depth hole (see separate spec sheet).

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidelines.

WARRANTY - Limited 5-year warranty.

LISTING - ETL listed to UL 1881, UL2595 and other U.S. and International safety standards. Suitable for wet locations.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Applications Lighting or applications@led-lighting.com.

LED lighting facts™

Light Output (Lumens)	13594
Watts	155
Lumens per Watt (Efficacy)	88
Color Accuracy (Color Rendering Index, CRI)	81
Light Color (Color Temperature, CCT)	5320 (Daylight)
Warm White	3000K
Daylight	5000K
Warranty**	Yes

Approved by the U.S. Department of Energy (DOE) as a Qualified Product (QP) under the Energy Star program. For more information, visit www.ledlightingfacts.com.

** See www.lightingfacts.com/products for details.

LIGHT OUTPUT - CRB

Beam Angle	Lumens (Nominal)	Input Power (155 Watts)
15°	2700	155 Watts
30°	5400	155 Watts
45°	8100	155 Watts
60°	10800	155 Watts
75°	13500	155 Watts
90°	16200	155 Watts

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



FIXTURE LABEL = B, C

LED AREA LIGHTS - AEROMAX™ MEDIUM (XAMU)



LED lighting facts™

Light Output (Lumens)	14091
Watts	135.5
Lumens per Watt (Efficacy)	104
Color Accuracy (Color Rendering Index, CRI)	72
Light Color (Color Temperature, CCT)	5477 (Daylight)
Warm White	3000K
Daylight	5000K
Warranty**	Yes

Approved by the U.S. Department of Energy (DOE) as a Qualified Product (QP) under the Energy Star program. For more information, visit www.ledlightingfacts.com.

** See www.lightingfacts.com/products for details.

LIGHT OUTPUT - XAMU

# of LEDs	Type 2	Type 3	Type 5
30 mA	128	13500	14100
40 mA	128	18000	17300
60 mA	128	15000	15200
90 mA	128	15000	15800

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



FIXTURE LABEL = D

LED ENTERPRISE DECORATIVE AREA LIGHTS (XEMD)



LED lighting facts™

Light Output (Lumens)	5712
Watts	77.3
Lumens per Watt (Efficacy)	73
Color Accuracy (Color Rendering Index, CRI)	70
Light Color (Color Temperature, CCT)	6000 (Daylight)
Warm White	3000K
Daylight	5000K
Warranty**	Yes

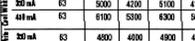
Approved by the U.S. Department of Energy (DOE) as a Qualified Product (QP) under the Energy Star program. For more information, visit www.ledlightingfacts.com.

** See www.lightingfacts.com/products for details.

LIGHT OUTPUT - XEMD

# of LEDs	Type 1	Type 2	Type 3	Type 5
30 mA	63	5000	4200	5700
40 mA	63	6300	5600	6400
60 mA	63	5300	4700	5500
90 mA	63	6100	5400	6100

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



FIXTURE LABEL = J

MISCELLANEOUS CHARTS

VEHICLE CAPACITY

TYPE	FULL SERVE	SELF SERVE
FUELING	-	8
WAITING TO BE FUELED	-	4
TOTALS	-	12
TOTAL NUMBER OF DISPENSING UNITS: (4) GASOLINE AND DIESEL		
TOTAL NUMBER OF FUELING POSITIONS: (8) GASOLINE AND DIESEL		

U/G STORAGE TANKS

TANK	CAPACITY	PRODUCT	TANK TYPE	INSTALL DATE
A SPLIT TANK	12,000 GAL	REG. GASOLINE	DWFG	PROPOSED
B SPLIT TANK	8,000 GAL	DIESEL	DWFG	PROPOSED
C SPLIT TANK	12,000 GAL	REG. GASOLINE	DWFG	PROPOSED
D SPLIT TANK	8,000 GAL	PREMIUM	DWFG	PROPOSED

CCTV CAMERAS

LANE #	FULL/SERVE	SELF SERVE	FULL SERVE
LANE #12	--	1	--
LANE #34	--	1	--
LANE #56	--	1	--
LANE #78	--	1	--

SITE SPECIFIC SYSTEM COMPONENT TABLE *

NUMBER OF SYSTEMS REQ'D	NUMBER OF NOZZLES REQ'D	NUMBER OF CYL. REQ'D	CYLINDER SIZE & QTY.
(1) 9'-8" LONG SYSTEM	(24) PER SYSTEM	(4) PER SYSTEM	ATD-358C-0 ATD-808C-4
(4) TOTAL SYSTEMS	(96) TOTAL NOZZLES	(16) TOTAL CYLINDERS	ATD-358C-0 ATD-808C-16

* INCLUDES MAIN AND END OF ISLAND PROTECTION.

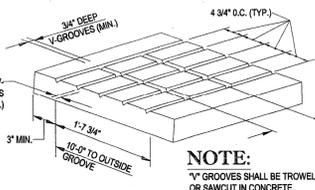
WARNING NO SMOKING-STOP MOTOR

IT IS UNLAWFUL AND DANGEROUS TO DISPENSE GASOLINE INTO UNAPPROVED CONTAINERS. NO FILLING OF PORTABLE CONTAINERS IN OR ON A MOTOR VEHICLE OR TRAILER. PLACE CONTAINER ON GROUND BEFORE FILLING.

NO SMOKING TURN-OFF ENGINE SIGN

NOT TO SCALE

NOTES:
DIMENSIONS 18" BY 28" WHITE BACKGROUND WITH RED MASKING
LETTERING SIZE AND ARRANGEMENT SHALL BE IN BLOCK LETTERS MIN. HEIGHT 2". AS SHOWN TO RIGHT.



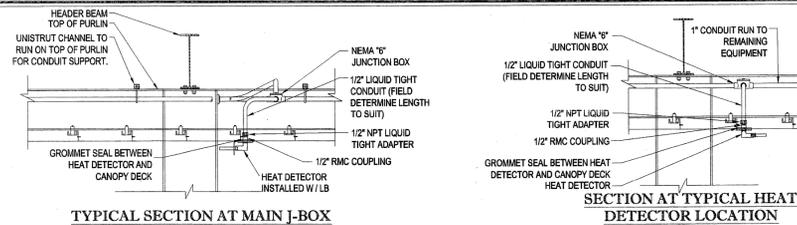
NOTE:
1" GROOVES SHALL BE TROWELED OR SAWCUT IN CONCRETE.

POSITIVE LIMITING BARRIER NOTE:

CONTRACTOR TO VERIFY LOCATION OF POSITIVE LIMITING BARRIER WITH CUMBERLAND FARMS PRIOR TO INSTALLATION.

POSITIVE LIMITING BARRIER SAWCUTS AND PATTERNS

NOT TO SCALE



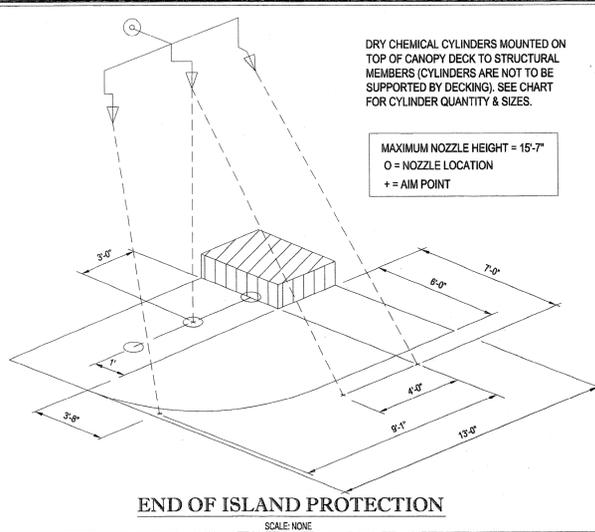
TYPICAL SECTION AT MAIN J-BOX

NOT TO SCALE

SECTION AT TYPICAL HEAT DETECTOR LOCATION

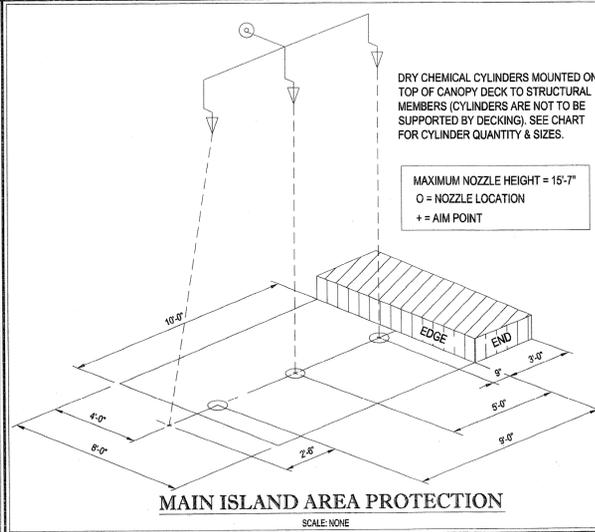
NOT TO SCALE

NOTES:
- ALL RIGID METAL CONDUIT THREADS TO BE SEALED USING TEFLON PASTE FOR WATER TIGHT INSTALLATION.
- LONGER HEAT DETECTOR LEADS MAY BE REQUIRED TO FACILITATE INSTALLATION.
- ALL ELECTRICAL CONNECTIONS FOR HEAT DETECTORS TO BE RIGID PACKED.
- ALL GROMMETS FOR FIRE SUPPRESSIBLE HEAT DETECTORS AND STROBE ALARM TO BE SEALED. USE RUBBER TYPED EPDM GROMMETS.
- ALL CONDUIT, LIQUID TIGHT, HOSES, WIRING AND FINAL CONNECTIONS FOR THE HEAT DETECTORS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR'S ELECTRICIAN.
- ALL HEAT DETECTORS, GROMMET SEALS AND LIQUID TIGHT ADAPTERS SHALL BE SUPPLIED AND INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR.



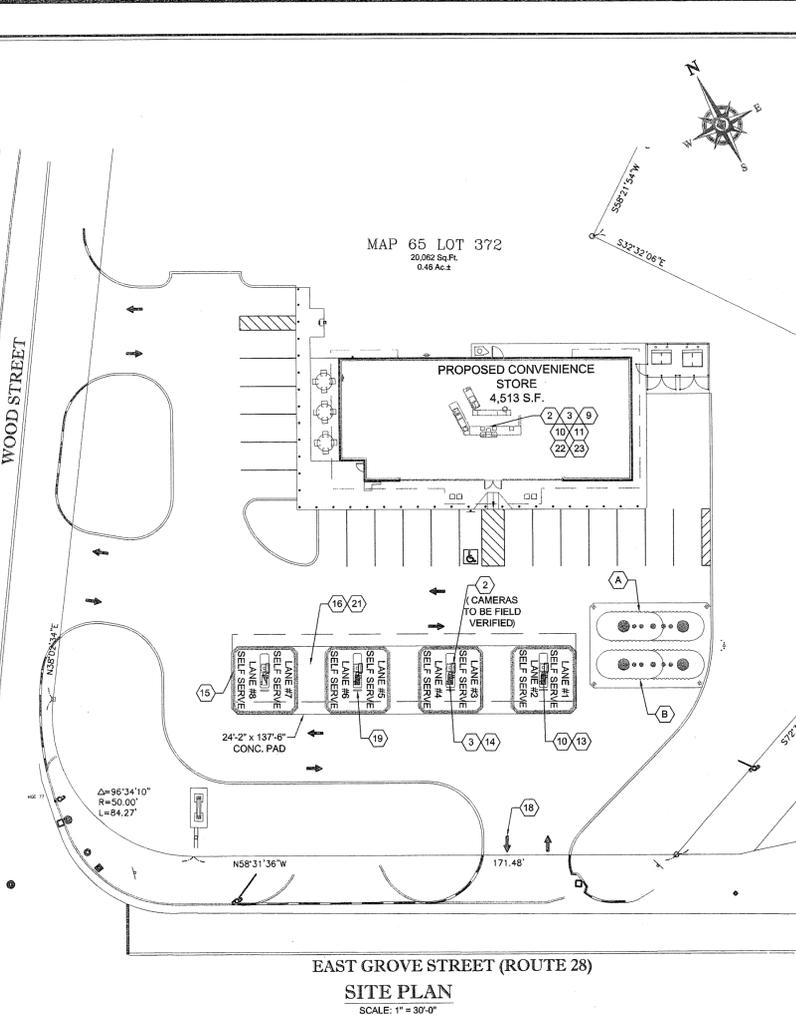
END OF ISLAND PROTECTION

SCALE: NONE



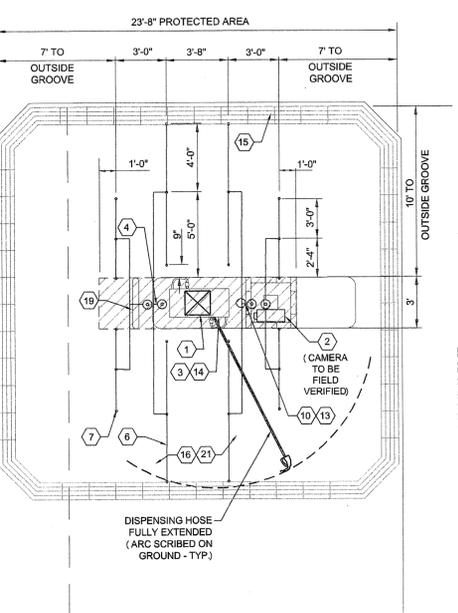
MAIN ISLAND AREA PROTECTION

SCALE: NONE



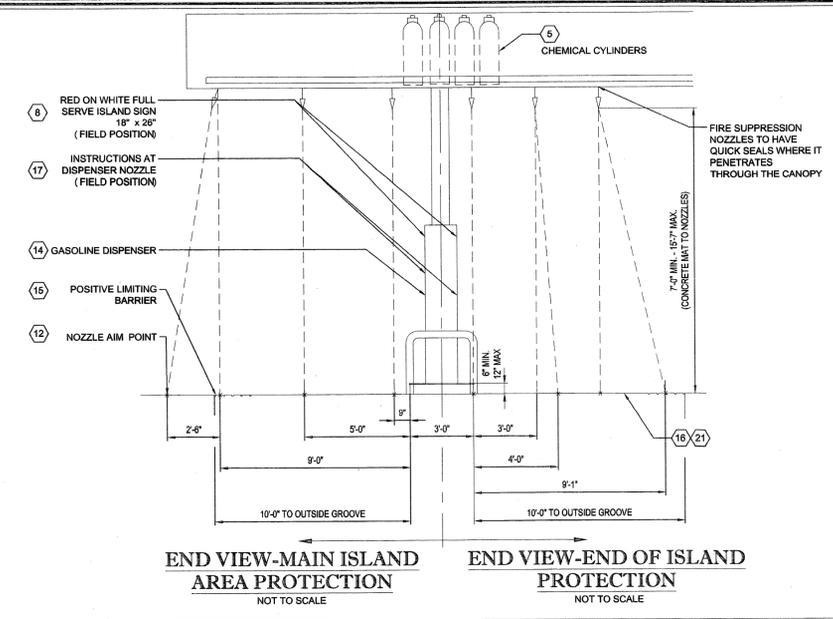
SITE PLAN

SCALE: 1" = 30'-0"



PLAN VIEW

SCALE: NONE



END VIEW-MAIN ISLAND AREA PROTECTION

NOT TO SCALE

END VIEW-END OF ISLAND PROTECTION

NOT TO SCALE

SPECIAL NOTE:
IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND THE UL LISTED PYRO-CHEM INC. "THE ATTENDANT II" TECHNICAL MANUAL, THE TECHNICAL MANUAL SHALL GOVERN.
NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICT

SPECIAL INSTALLATION NOTES:
1. DO NOT PAINT THE HEAT SENSORS.
2. PITCH ELECTRICAL CONDUIT AWAY FROM THE ELECTRICAL JUNCTION BOXES.
3. ALL CONDUIT RUNS AND JUNCTION BOXES ARE TO BE SECURED TO THE TOP OF THE PURLINS AS DETAILED ON THIS DRAWING.
4. ALL RIGID METAL CONDUIT THREADS TO BE SEALED USING TEFLON PASTE FOR WATER TIGHT INSTALLATION.

LEGEND

1. 180" HIGH TEMP. AUTOMATIC THERMOSTAT INSTALLED ON 15 FOOT MAXIMUM CENTERS INTERCONNECTED TO FIRE SUPPRESSION SYSTEM, CENTER OF EACH ISLAND ABOVE DISPENSERS.
2. CCTV CAMERA MOUNTED TO CANOPY COLUMN AT ISLAND WITH CCTV MONITOR(S) LOCATED NEAR CASH REGISTER AT THE TRANSACTION AREA WITHIN THE BUILDING. CCTV MONITORS SHALL DISPLAY ALL CAMERA ANGLES SIMULTANEOUSLY ON THE SCREEN WITH A MINIMUM PICTURE FRAME OF 5 INCHES BY 6.5 INCHES PER CAMERA.
3. INTERCOM SPEAKERS AT EACH DISPENSER WITH MASTER CONTROL LOCATED AT CENTRAL CONTROL AREA.
4. OVERHEAD FIRE SUPPRESSION PIPING (SUPPLY).
5. DRY CHEMICAL CYLINDERS AS REQUIRED BY MANUFACTURER OF SUPPRESSION SYSTEM WITH REFERENCE TO UL APPROVED INSTALLATION AND MAINTENANCE MANUAL.
6. OVERHEAD FIRE SUPPRESSION PIPING (DISTRIBUTION).
7. NOZZLE.
8. NO SMOKING AND TURN OFF ENGINE SIGN.
9. GASOLINE DISPENSER CONTROL CONSOLE EQUIPMENT WITH COMPLETE EQUIPMENT SHUTDOWN EMERGENCY MODE UL APPROVED.
10. HAND OPERATED 40 BC FIRE EXTINGUISHER.
11. CONTROL CENTER.
12. FIRE SUPPRESSION STRIKE POINT - FOR END OF ISLAND NOZZLE AIM POINTS REFER TO THE UL LISTED PYRO-CHEM, INC. "THE ATTENDANT II" TECHNICAL MANUAL.
13. SUPPORT COLUMN.
14. GASOLINE OR DIESEL DISPENSER UL APPROVED WITH AUTOMATIC CREDIT CARD READING DEVICE.
15. POSITIVE LIMITING BARRIER AROUND PERIMETER OF FULL SERVE GASOLINE DISPENSING AREA.
16. FULL SERVE GASOLINE DISPENSING AREA.
17. APPROPRIATE INSTRUCTIONS FOR USE AT EACH FULL SERVE DISPENSING NOZZLE.
18. TRAFFIC FLOW ARROWS.
19. SAFETY BARRICADE.
20. LIGHTING WITHIN FULL SERVE DISPENSING AREA.
21. CONCRETE MAT SURROUNDING THE DISPENSING AREA SHALL BE MADE AS LEVEL AS POSSIBLE.
22. FACILITY.
23. MANUAL RELEASE LOCATED IN CONTROL CENTER CONVENIENT TO ATTENDANT. REMOTE RELEASE ENGINEERED BY FACTORY, INSTALLED BY AUTHORIZED FIRE SUPPRESSION CONTRACTOR.

NOTICE:

A MEANS IS PROVIDED FOR THE CONTROLLING MECHANISM FOR THE CONSOLE OPERATOR TO OBSERVE THE FILLING OPERATION AT EACH VEHICLE AND THE DISPENSING OF MOTOR FUEL SHALL BE CONTINUOUSLY OBSERVED BY THE CONSOLE OPERATOR DURING THE TIME THAT ANY OF THE PUMPS HAVE BEEN ACTIVATED TO DISPENSE MOTOR FUEL 527 CMR 5.08(5) (f). UNRELATED BUSINESS, (VENDING AREAS, CONVENIENCE FOOD MART, AUTOMOTIVE REPAIR GARAGES, CAR WASHES, ETC.) SHALL BE OPERATED BY OTHERS.

EXCEPTION:

FACILITIES OF 1,000 SQUARE FEET OR LESS OF RETAIL SALES AREA AND EIGHT OR LESS FUELING POSITIONS MAY BE OPERATED BY ONE ATTENDANT AT THE DISCRETION OF THE HEAD OF THE FIRE DEPARTMENT. FACILITIES OF MORE THAN 1,000 SQUARE FEET OF RETAIL SALES AREA AND EIGHT OR LESS FUELING POSITIONS MAY BE OPERATED BY ONE ATTENDANT DURING NON-PEAK BUSINESS HOURS AFTER REVIEW BY THE HEAD OF THE FIRE DEPARTMENT AND INCLUDED AS AN ADDENDUM TO PLANS SUBMITTED TO AND APPROVED BY THE MARSHAL AS DESCRIBED IN 527 CMR.

NOTE:

RETAIL SALES AREA SHALL NOT INCLUDE STORAGE AREAS, OFFICES, RESTROOMS, ETC. BUT SHALL INCLUDE THE AREA OF A FACILITY WHICH DISPLAYS GOODS FOR SALE INCLUDING AISLES & COUNTER SPACE.

STATE FIRE MARSHAL'S OFFICE:

- FULL-SERVE EXTINGUISHING SYSTEMS SHALL BE INSTALLED FROM AND IN ACCORDANCE WITH STATE FIRE MARSHAL APPROVED PLANS.
- ALL EXTINGUISHING SYSTEMS, DISPENSING SYSTEMS AND CONTROL EQUIPMENT SHALL BE UNDERWRITERS LABORATORY (UL) LISTED.
- PLANS CONTAINING CREDIT CARD DEVICES SHALL INCLUDE A NOTE AND INCLUDE THE LANGUAGE FROM 527 CMR 5.08 (5)(1).
- FAILURE TO CONSTRUCT, INSTALL, OR MAINTAIN ANY EQUIPMENT, DEVICES, SYSTEM, OR PROCEDURE INDICATED ON THESE PLANS SHALL BE CAUSE FOR THE REVOCATION OF THIS APPROVAL.
- PLANS APPROVED BY THE HEAD OF THE FIRE DEPARTMENT ARE APPROVED WITH THE INTENT THEY COMPLY IN ALL RESPECTS TO 527 CMR. ANY OMISSIONS OR ERRORS ON THE PLANS DO NOT RELIEVE THE APPLICANT OF COMPLYING WITH ALL APPLICABLE REQUIREMENTS OF 527 CMR.
- STATE FIRE MARSHAL APPROVAL OF PLANS TO CONSTRUCT/RENOVATE A FULL-SERVICE FACILITY BECOME NULL AND VOID ONE YEAR FROM THE DATE OF APPROVAL IF CONSTRUCTION HAS NOT YET STARTED.

NOTICE-STATE FIRE MARSHAL'S OFFICE:

EACH PERSON ENGAGED IN THE INSTALLATION, SERVICING, CHARGING, RECHARGING REPAIR, TEST AND INSPECTION OF ENGINEER OR PRE-ENGINEERED FIXED FIRE EXTINGUISHING SYSTEMS IN MASS. MUST HAVE A CERTIFICATE OF COMPETENCY ISSUED BY THE STATE FIRE MARSHAL OF THE DEPARTMENT OF PUBLIC SAFETY, M.G.L.C. 146B.55.

NOTES:

AT LEAST SEMI-ANNUALLY ALL DISCHARGE NOZZLES, PIPING, DRY CHEMICAL CONTAINERS, HEAT COLLECTORS ETC. SHALL BE INSPECTED BY APPROVED AND CERTIFIED COMPANIES (TYPES-BAD) AND INDIVIDUAL (TYPES-FBH) AND REPORTS OF SUCH INSPECTIONS SUBMITTED TO HEAD OF THE FIRE DEPARTMENT IN ACCORDANCE WITH M.P.A. STANDARD #17 OR LATEST REVISION.

A STATE FIRE MARSHAL APPROVED SIGN SHALL BE INSTALLED ABOVE EACH PRODUCT DISPENSER ON THE FULL SERVE ISLAND(S) REF. 527 CMR 5.08 (5)(5).

EXISTING FULL SERVICE FACILITIES SHALL BE SUBJECTED TO RESUBMITAL AND REVIEW SHOULD ANY OF THE FOLLOWING ITEMS OCCUR:

- ALTERATIONS TO THE PRE-ENGINEERED FIXED EXTINGUISHING SYSTEM(S) OTHER THAN NORMAL MAINTENANCE PROCEDURES.
- ALTERATIONS TO THE FULL SERVICE DISPENSING ISLAND ARRANGEMENT(S) RESULTING IN A CHANGE OF HAZARD AREA PROTECTION.
- ALTERATIONS OR ENVIRONMENTAL CHANGES RESULTING IN THE INABILITY OF A CONSOLE OPERATOR TO CONSTANTLY OBSERVE THE DISPENSING OPERATION. THIS ITEM SHALL BE DETERMINED BY THE LOCAL HEAD OF THE FIRE DEPARTMENT.
- CHANGES OR ALTERATIONS IN THE METHOD OF DISPENSING MOTOR FUEL.

THE USE OF AUTOMATIC CREDIT CARD READING DEVICES AS A MEANS OF PAYMENT AT THE PUMP SHALL BE INSTALLED AND OPERATED AS REQUIRED BY 527 CMR 5.08 (5) (i) LISTED BELOW.

(i) THE USE OF AUTOMATIC CREDIT CARD READING DEVICES AS A MEANS OF PAYMENT AT THE PUMP ISLAND SHALL BE ALLOWED PROVIDED THAT:

- EACH SALE SHALL BE INDIVIDUALLY AUTHORIZED BY THE FULL-SERVE ATTENDANT.
- THE AUTOMATIC CREDIT CARD READING DEVICE SHALL NOT BE USED AS PHYSICAL AUTHORIZATION FOR THE DISPENSING OF MOTOR FUEL.

_____, CHIEF OF DEPARTMENT OR HIS DESIGNEE, HAVE REVIEWED THE ATTACHED INFORMATION AND

CITY/TOWN: _____ DATE: _____

FOR FIRE MARSHAL USE:

FIRE SUPPRESSION NOTES:

1. FIRE SUPPRESSION SYSTEM AND ASSOCIATED COMPONENTS SHALL BE INSTALLED BY A LICENSED FIRE SUPPRESSION SYSTEM INSTALLER CERTIFIED FOR SUCH INSTALLATION BY THE SYSTEM MANUFACTURER.
2. THE PROPOSED FIRE SUPPRESSION SYSTEM AND SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS. INSTALLATION OF THIS SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE SYSTEM MANUFACTURER, THE MIDDLEBORO FIRE DEPARTMENT, AND ALSO THE MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE REQUIREMENTS.
3. SYSTEM INSTALLER IS RESPONSIBLE FOR REVIEWING THIS PLAN FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SYSTEM MANUFACTURER PRIOR TO INSTALLATION. IT IS THE INSTALLER'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY CONFLICTS. FAILURE TO NOTIFY THE ENGINEER OF RECORD SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS.
4. THIS PLAN WAS PREPARED USING THE SYSTEM MANUFACTURERS GUIDELINES AND IS INTENDED FOR GENERAL LAYOUT PURPOSES ONLY.

GENERAL NOTES:

1. THE ELECTRICAL THERMOSTAT DETECTORS SHALL BE MOUNTED ON THE CANOPY'S UNDERSURFACE. PROVIDED THE HEIGHT DOES NOT EXCEED 15 FEET ABOVE THE CONCRETE MAT OR ON THE UNDERSIDE OF AN 18"x16"x2" HEAT COLLECTOR AND NO HIGHER THAN THE NOZZLES.
2. IN THE EVENT THAT A CANOPY SUPPORT BEAM INTERFERES WITH INSTALLING THE HEAT DETECTOR ALONG THE CENTER OF THE ISLAND, THEN THE DETECTORS MAY BE OFFSET NO MORE THAN 12" TO CLEAR THE BEAM. IF THE BEAM EXTENDS BELOW THE FLAT CANOPY DECK, THEN AN ADDITIONAL DETECTOR MUST BE ADDED AT EACH AFFECTED LOCATION (A DETECTOR ON EACH SIDE OF THE PROTRUDING BEAM).
3. NOZZLE AND HOSE FROM EACH PETROLEUM PRODUCT DISPENSER SHALL NOT EXTEND BEYOND POSITIVE LIMITING BARRIER AND NO PETROLEUM PRODUCT SHALL BE DISPENSED BEYOND POSITIVE LIMITING BARRIER.

BOHLER ENGINEERING

CORPORATE OFFICE:
WARREN, NJ

OFFICES:
SOUTHBOURGH, MA
MILWAUKEE, WI
PHILADELPHIA, PA
STERLING, VA
PORTLAND, ME
PORT LAUDERDALE, FL
TAMPA, FL

CIVIL & CONSULTING ENGINEERS
SURVEYORS
PROJECT MANAGERS
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS

REVISIONS

REV	DATE	COMMENT	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

PERMIT PLAN

PROJECT No.: W041623
DRAWN BY: CFD
CHECKED BY: LMD
DATE: 11/25/2013
SCALE: AS NOTED
CAD I.D.: MIDDLEBORO 560

PROJECT:

FIRE SUPPRESSION PLAN
FOR
CUMBERLAND FARMS
(NEW SITE)
EAST GROVE STREET (ROUTE 28)
@ WOOD STREET
TOWN OF MIDDLEBORO
PLYMOUTH COUNTY
MASSACHUSETTS

BOHLER ENGINEERING

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

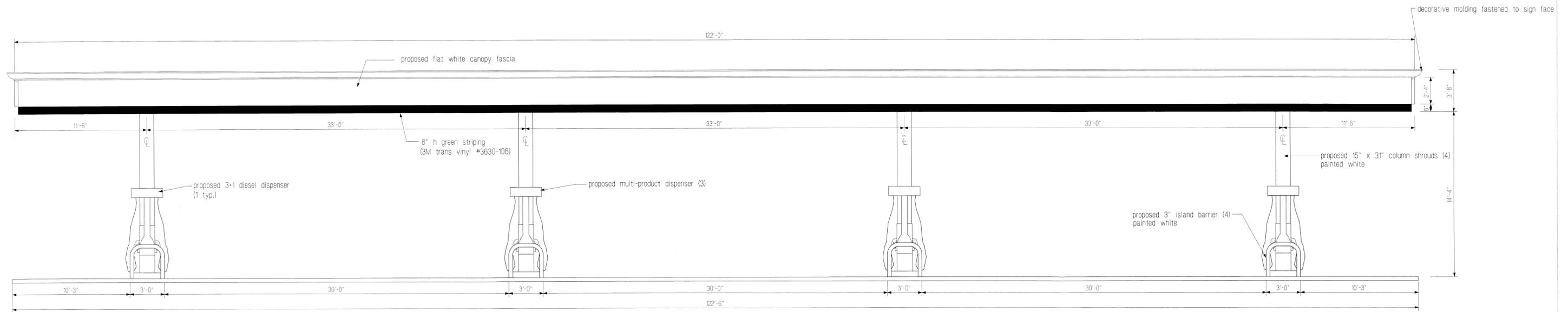
S.P. DECOURSEY

STEPHEN P. DECOURSEY
PROFESSIONAL ENGINEER
LICENSE NO. 11110
CONCRETE ISLAND LICENSE NO. 23862
PHONE ISLAND LICENSE NO. 7590

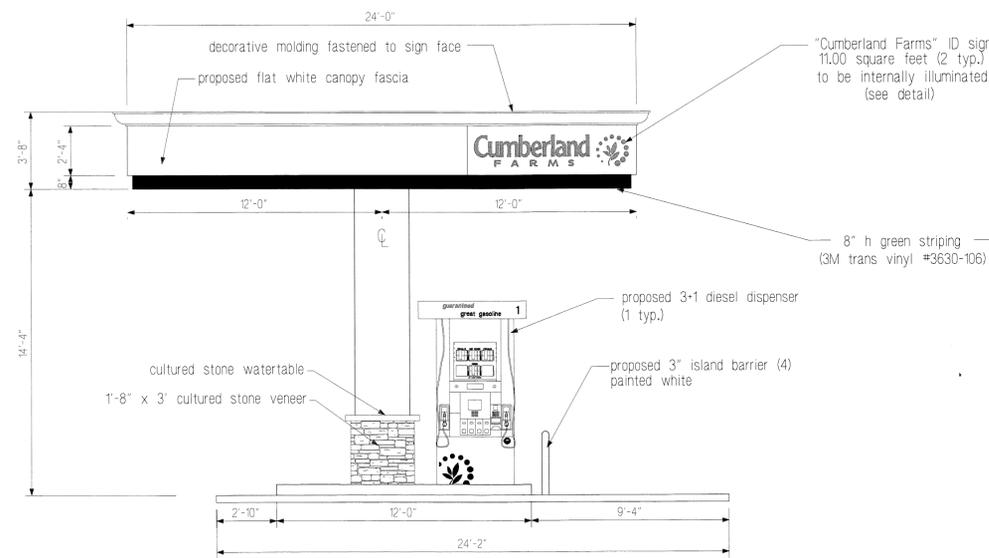
SHEET TITLE:
"THE ATTENDANT II" GASOLINE FIRE SUPPRESSION SYSTEM

SHEET NUMBER:
CFG11.0

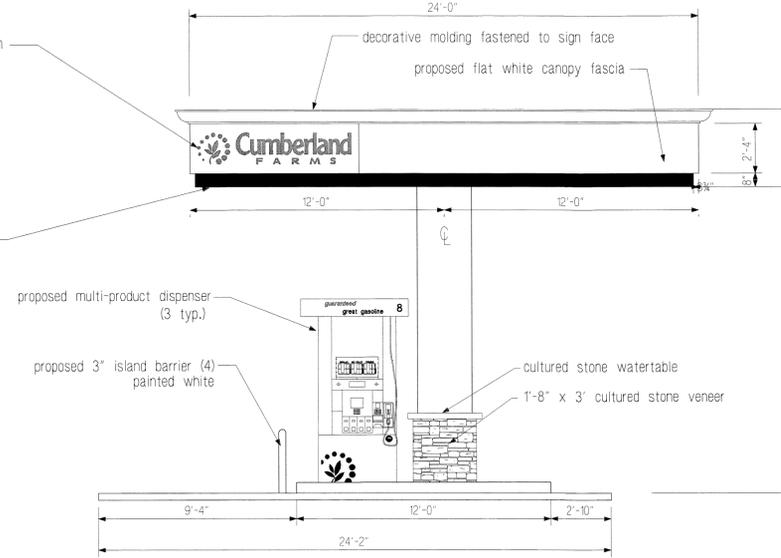
REV 0 - 11/25/2013



FRONT ELEVATION

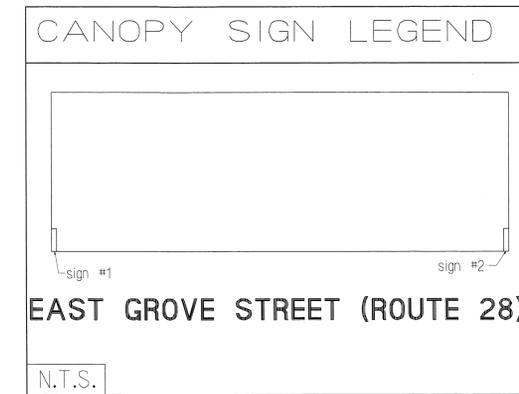
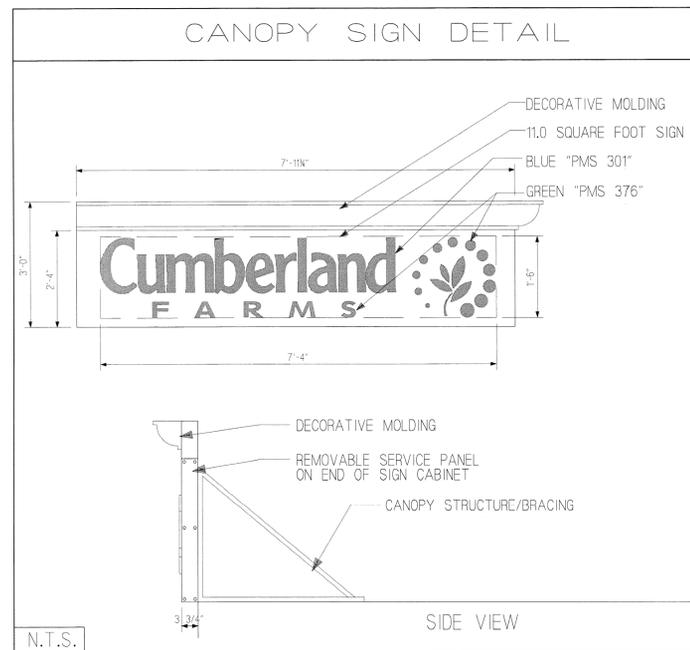
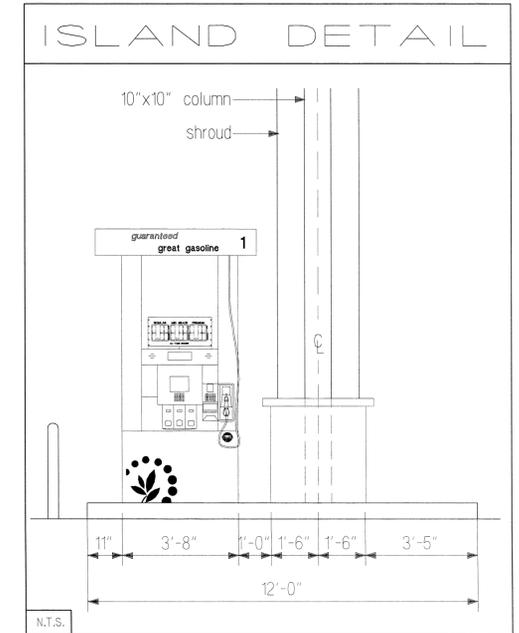


LEFT ELEVATION



RIGHT ELEVATION

NOTE:
FOR FINAL P.L.B. PLACEMENT REFER
TO APPROVED FIRE SUPPRESSION PLAN



REVISIONS			V# NEW	EAST GROVE STREET @ WOOD STREET MIDDLEBOROUGH, MASSACHUSETTS
DATE	REV. BY.	DESCRIPTION	Store# NEW	
			Gas Station# NEW	

CUMBERLAND FARMS, INC.
100 Crossing Boulevard
Franklin, Massachusetts 01702

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

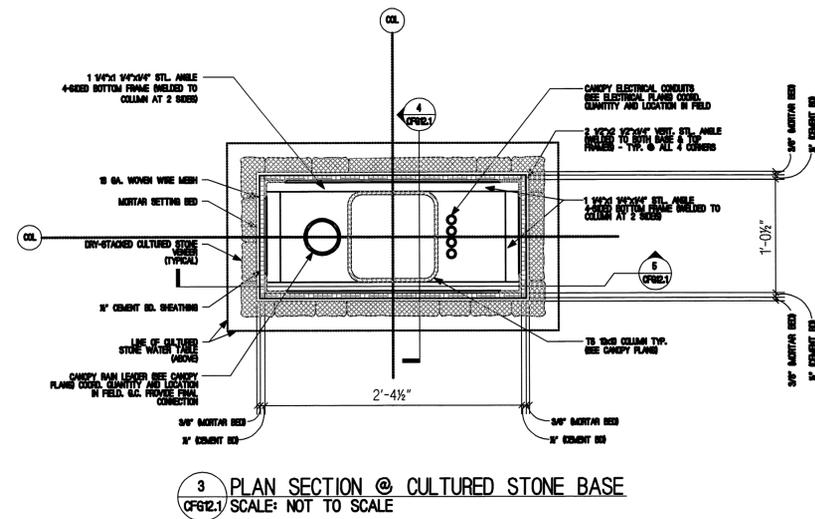
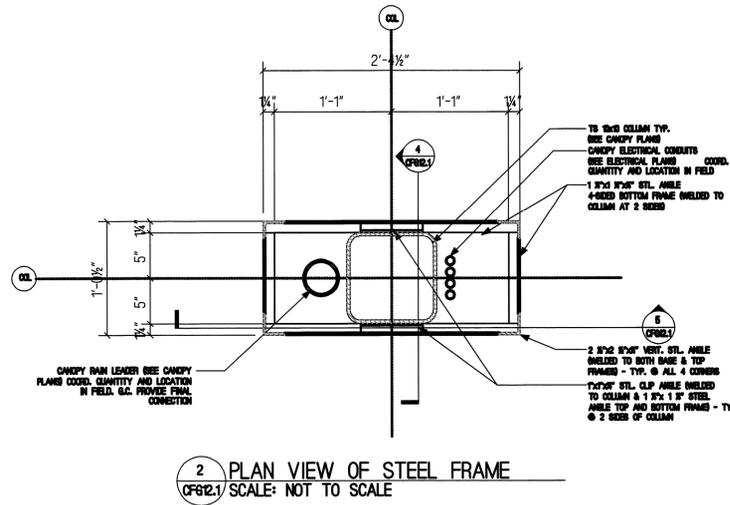
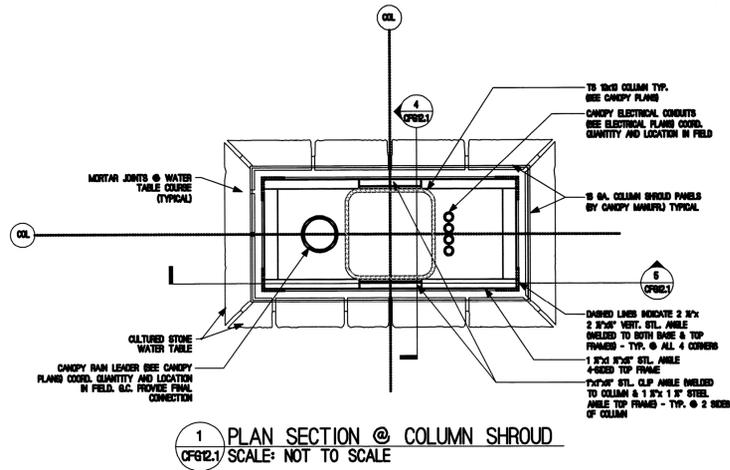
DATE: 07-11-2013

FILE: xcanopy/middleboro

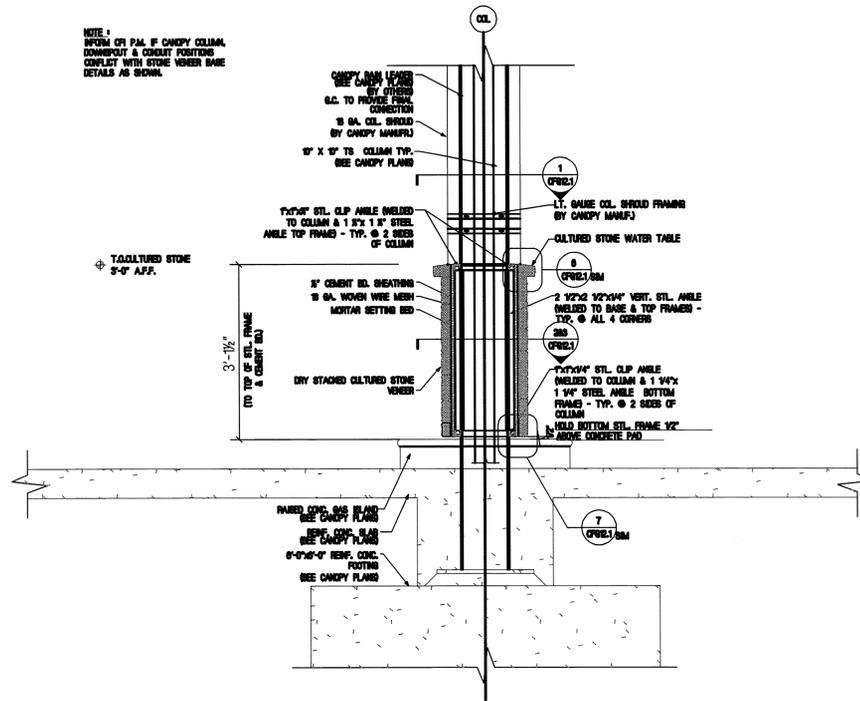
DRAWN BY: DB

CHECKED BY:

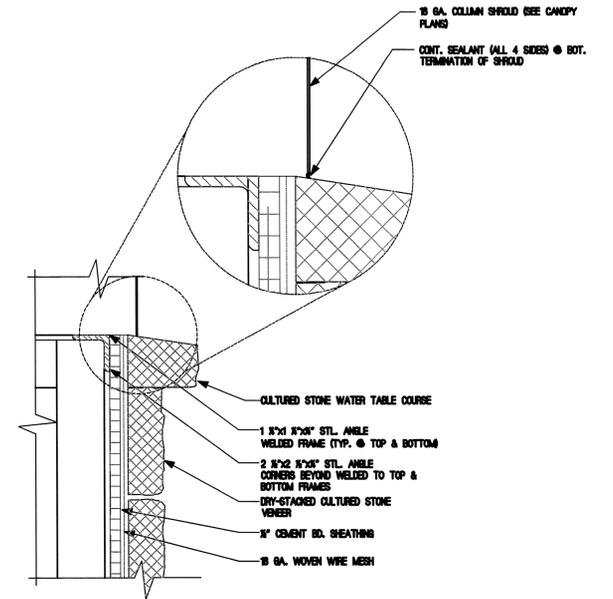
PROPOSED CANOPY ELEVATIONS **CFG12.0**



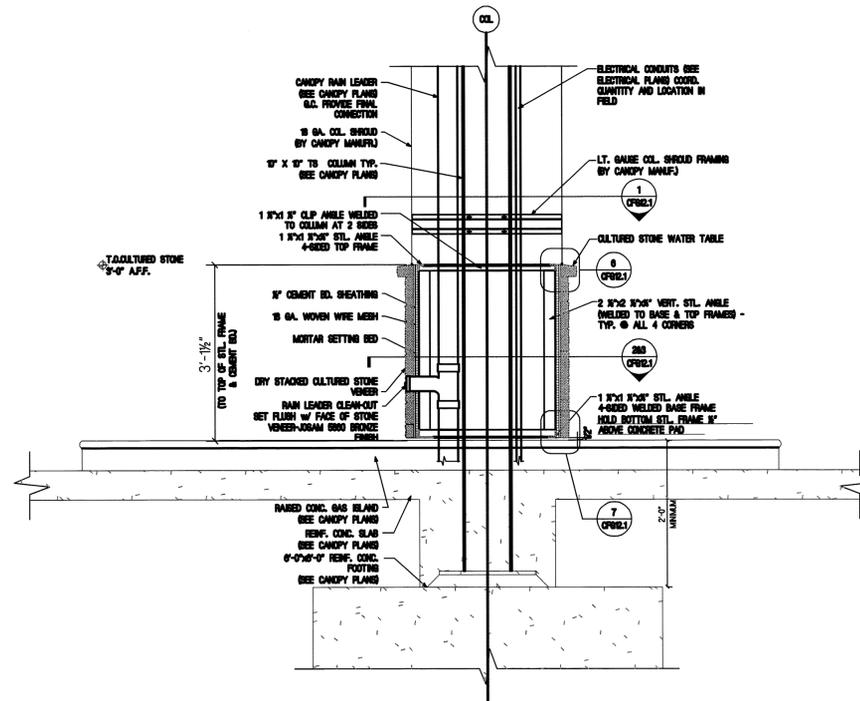
NOTE:
 IF RAIN LEADER IS CANOPY COLUMN,
 DOWNSPOUT & GROUND CONNECTIONS
 COMPLETE WITH STONE VENEER BASE
 DETAILS AS SHOWN.



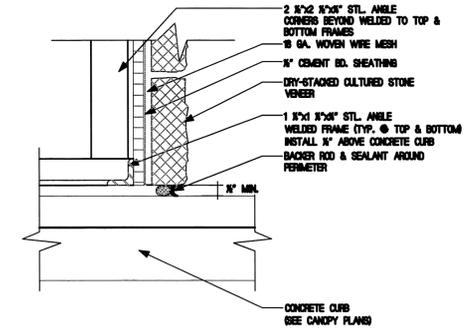
4 SECTION @ BASE OF GAS ISLAND COLUMN WRAP
 CFG12.1 SCALE: NOT TO SCALE



6 DETAIL @ STONE WATER TABLE
 CFG12.1 SCALE: NOT TO SCALE



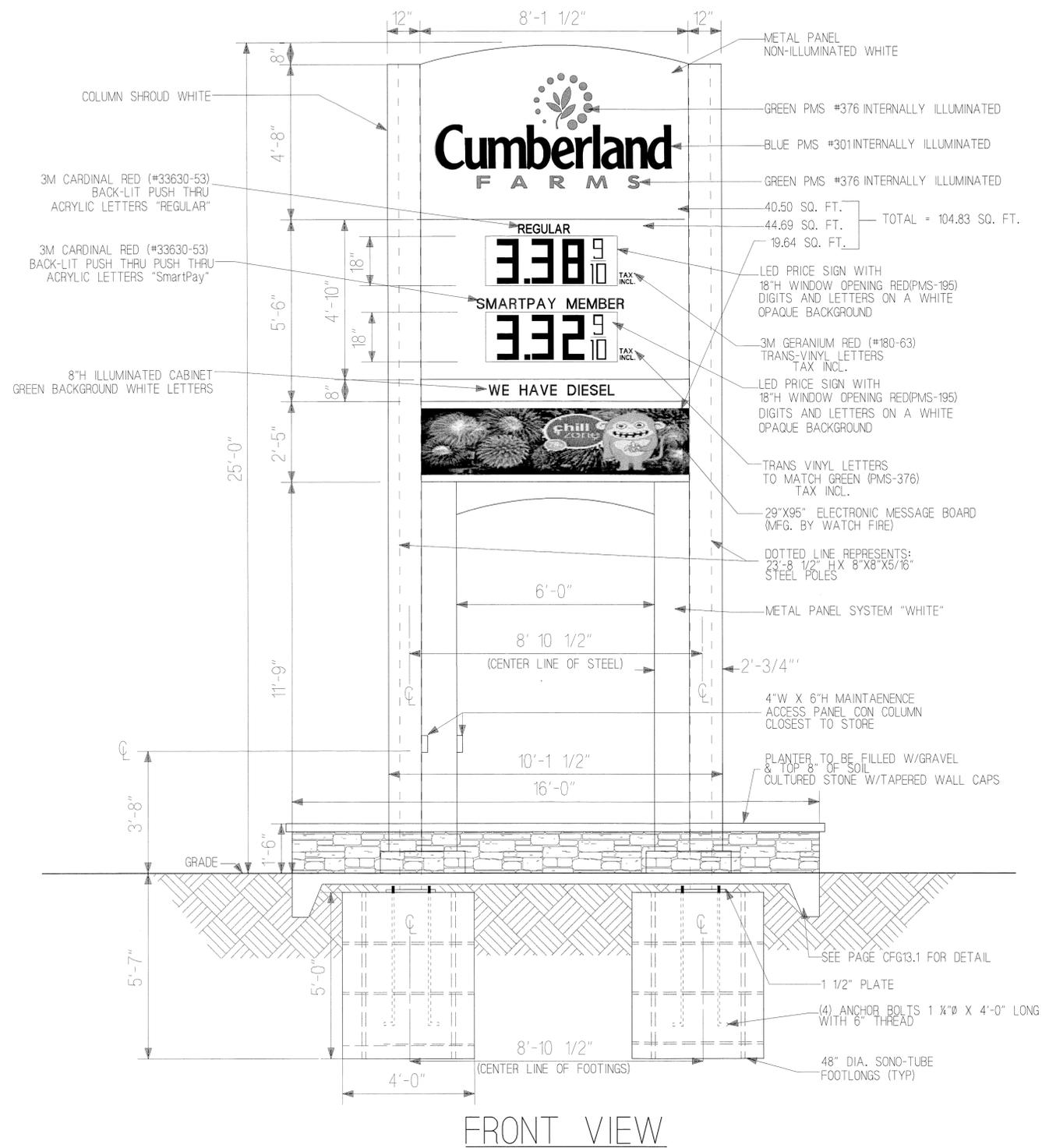
5 SECTION @ BASE OF GAS ISLAND COLUMN WRAP
 CFG12.1 SCALE: NOT TO SCALE



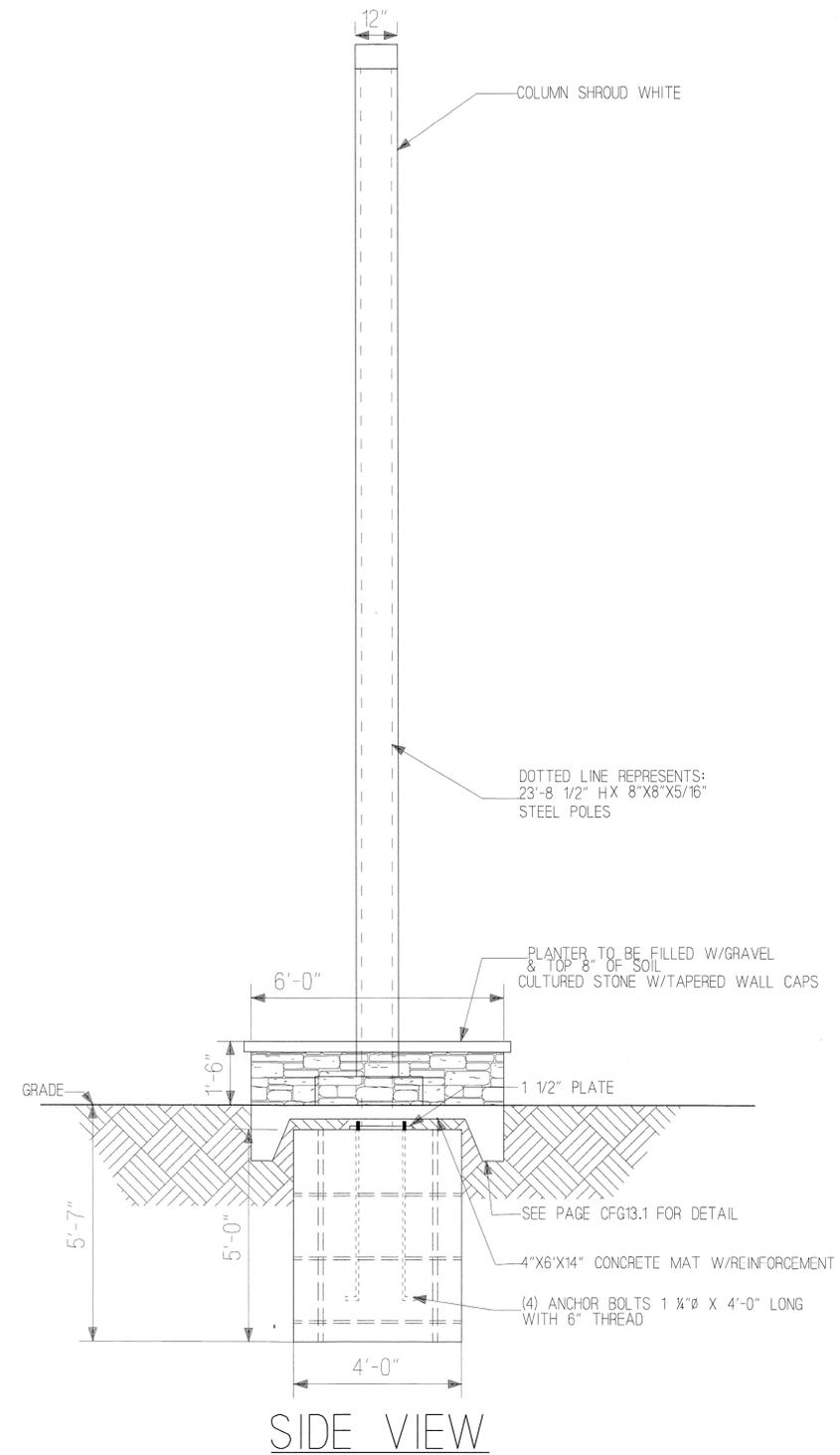
7 DETAIL @ BASE OF COLUMN WRAP
 CFG12.1 SCALE: NOT TO SCALE

REVISIONS		
DATE	REV. BY.	DESCRIPTION

V* NEW Store* NEW Gas Station* NEW	EAST GROVE STREET @ WOOD STREET MIDDLEBOROUGH, MASSACHUSETTS
	
	CUMBERLAND FARMS, INC. 100 Crossing Boulevard Framingham, Massachusetts 01702
	PROPOSED CANOPY ELEVATIONS
SCALE: 1/4" = 1'-0" DATE: 07-11-2018 FILE: xcanopy/middleboro DRAWN BY: DB CHECKED BY:	CFG12.1

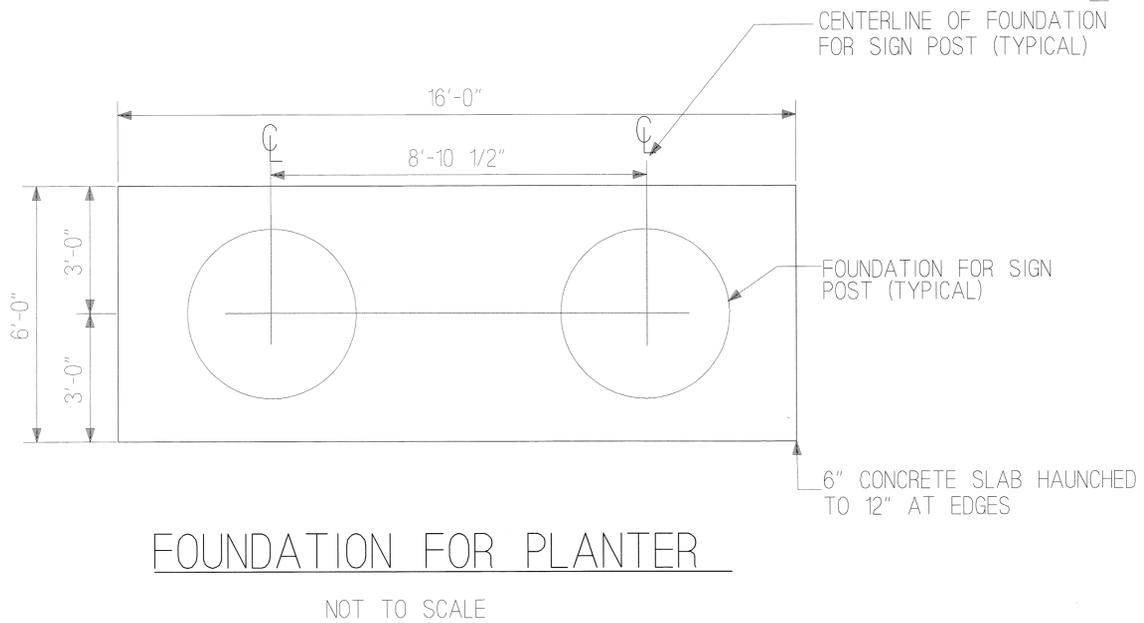
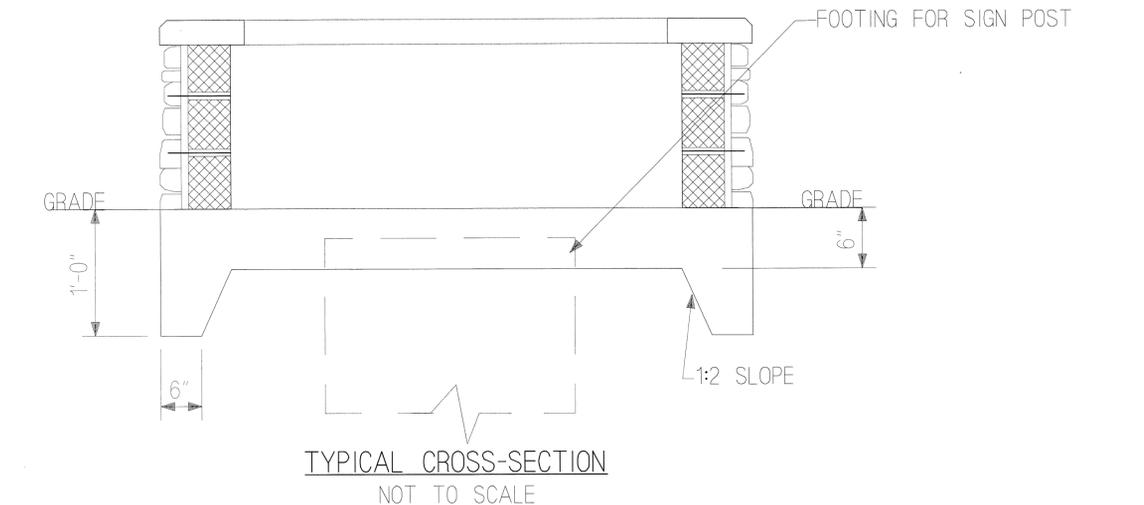


FRONT VIEW



SIDE VIEW

REVISIONS			V# NEW	EAST GROVE STREET @ WOOD STREET MIDDLEBOROUGH, MASSACHUSETTS	
DATE	REV. BY.	DESCRIPTION	Store# NEW	SCALE: 5/16" = 1'-0"	
10-09-13	D.B.	SmartPAY MEMBER	Gas Station# NEW	DATE:	07-12-2013
				FILESIGNP/middleborough.db	
				DRAWN BY:	D.B.
				CHECKED BY:	
				CUMBERLAND FARMS, INC. 100 Crossing Boulevard Framingham, Massachusetts 01702	
				Cumberland FARMS	
				PROPOSED SIGN DRAWING	
				CFG 13.0	



DESIGN WIND LOAD 120 MPH
 $P = .00257 (V^3) \left(\frac{1}{10}\right)^{.2857}$
 $P = .00257 (120^3) \left(\frac{1}{10}\right)^{.2857}$
 $P = .00257 (14400) (.76)$
 $P = 35 \text{ PSF}$

STAGE 1
 $A = 2 (10.22^2) (2.04^4) = 41.70^{(2)} (5.11^4) = 213.09^{(2)}$
 $B = (14.78) (10.13^2) = 149.72^{(2)} (17.61^4) = 2636.57^{(2)}$
TOTAL = 2849.66^{(2)}

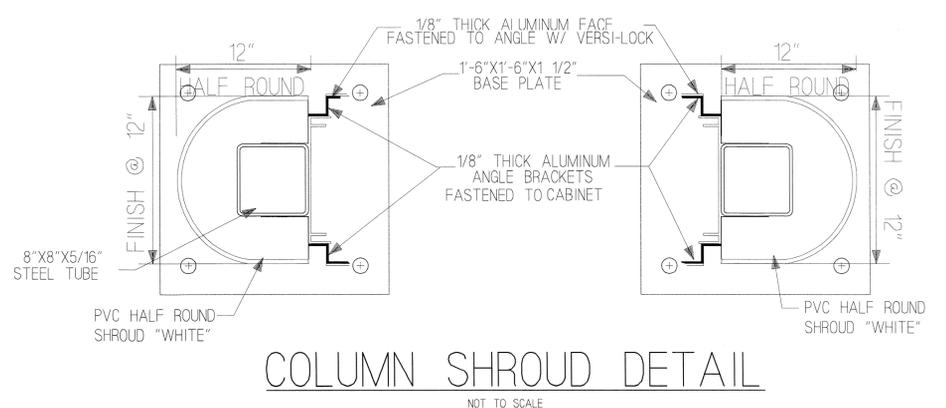
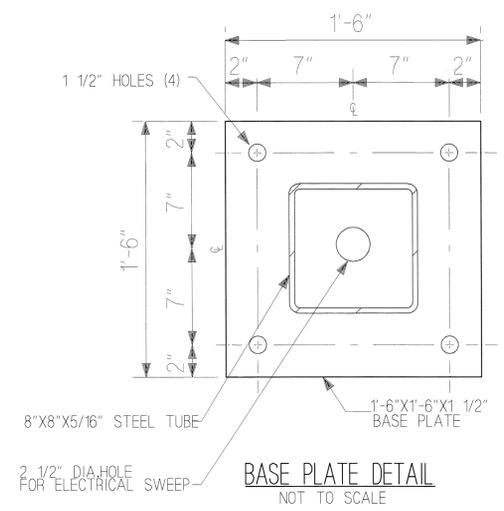
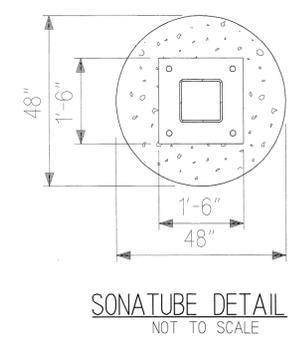
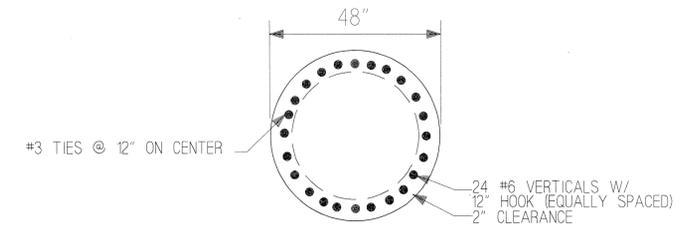
$M = 2849.66^{(2)} (35 \text{ psf}) = \frac{99738.07 \text{ lb.ft}}{2} = 49,869.04 \text{ lb.ft}$

$S = \frac{M (12)}{28000} \rightarrow S = \frac{49,869.04 (12)}{28000} = 21.37 \text{ S req.}$
 = [USE 8" x .312" wall SQ STL TUBE @ 22.7 S]

AUGERED CAISSON FOOTING (4.0' DIA)
 $\sqrt[3]{\frac{4.25 (\text{Mlbs})}{300 (\text{DIA})}} = \text{DEPTH}$
 $\sqrt[3]{\frac{4.25 (49,869.04)}{300 (4)}} = \text{DEPTH} = 5.61' \text{ REQ (USE 5'-7" DEPTH)}$

(1) 20 A 120VAC CIRCUIT REQ. (BY OTHERS)

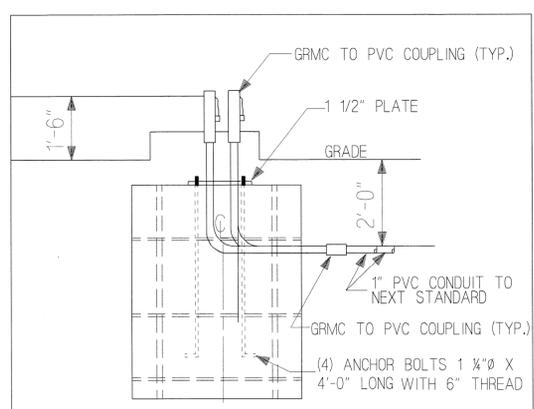
UL Underwriters Laboratories Inc.
 NOTE: SIGN TO BEAR UL LISTING



ID&GAS PRICE SIGN ELECTRICAL REQUIREMENTS
 1" PVC CONDUIT W/ 3#10 AND 1#10 GROUND (20 AMP)
 1" PVC CONDUIT "SPARE" W/PULL STRINGS
 1 WEATHER PROOF JUNCTION BOX

ELECTRONIC MESSAGE BOARD SYSTEM/CABLE REQUIREMENTS
 ONE MEDIA CONVERTER IS NEEDED TO CONVERT THE ETHERNET SIGNAL FROM THE SWITCH (OR COMPUTER) TO FIBER-OPTIC SIGNAL, AND THEN A SECOND MEDIA CONVERTER IS LOCATED IN THE IN THE SIGNAL TERMINATION ENCLOSURE TO CONVERT THE FIBER-OPTIC SIGNAL BACK TO ETHERNET. A MINIMUM OF TWO 62.5UM FIBER-OPTIC CABLES WITH ST STYLE CONNECTORS ARE REQUIRED. DAKTRONICS OFFERS FIBER-OPTIC CABLES WHICH MAY BE BURIED EITHER DIRECTLY OR IN CONDUIT, BUT SHOULD NOT BE SUBJECTED TO FLEXING. THE MAXIMUM LENGTH OF A FIBER-OPTIC CABLE IS 1.2 MILES (APPROXIMATELY 2,000 METERS) BETWEEN MEDIA CONVERTERS. FIBER-OPTIC SIGNAL CABLES AND POWER WIRES CAN BOTH BE ROUTED THROUGH THE SAME CONDUIT.

SPECIFICATIONS
 * 12" DEEP ALUMINUM FABRICATED SIGN CABINET W/INTERNAL, HIGH OUTPUT FLOURESCENT ILLUMINATION...CABINET PAINTED WHITE
 * 1/8" ALUMINUM CAM ROUTERED SIGN FACES. "CUMBERLAND FARMS" ROUTERED TEXT AND LOGO
 * CLEAR ACRYLIC PUSH THRU(1/2"-5/8" EXPOSED) "CUMBERLAND" TEXT TO RECEIVE TRANSLUCENT VINYL OVERLAY 3M BLUE...LOGO "FARMS" VINYL OVERLAY 3MBRILLIANT GREEN
 * SIGN TO INSTALL BETWEEN NEW 8" SQUARE STEEL COLUMNS...INCLUDES NEW HALF ROUND PVC POLE COVERS, INNER ARCHED ALUMINUM FILLER AND ALUMINUM BASE COVERS

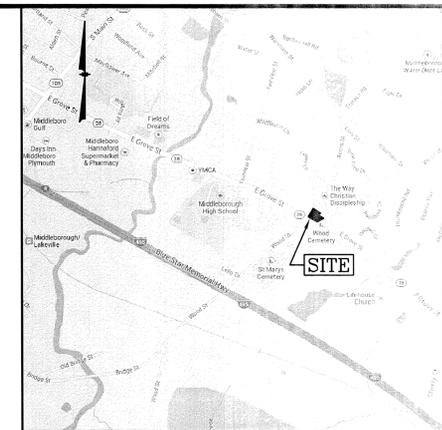


REVISIONS			V# NEW
DATE	REV. BY.	DESCRIPTION	Store# NEW
7-8-13	TML	per review comments	Gas Station# NEW
10-09-13	D.B.	SmartPAY MEMBER	

EAST GROVE STREET @ WOOD STREET
MIDDLEBOROUGH, MASSACHUSETTS

Cumberland FARMS
 CUMBERLAND FARMS, INC.
 700 Dressing Boulevard
 Framingham, Massachusetts 01702

SCALE: 5/16" = 1'-0"
 DATE: 07-12-13
 FILE: SIGN.pj/middleborough.dwg
 DRAWN BY: D.B.
 CHECKED BY:
 CFG 13.1



LOCATION MAP
(NOT TO SCALE)

MAP 65 LOT 349
N/F RONALD & ANN SHOGAM
149 WOOD STREET
MIDDLEBOROUGH, MA 02346
BOOK 4101 PAGE 44

MAP 65 LOT 372
20,062 Sq.Ft.
0.46 Ac.±

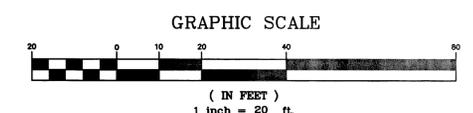
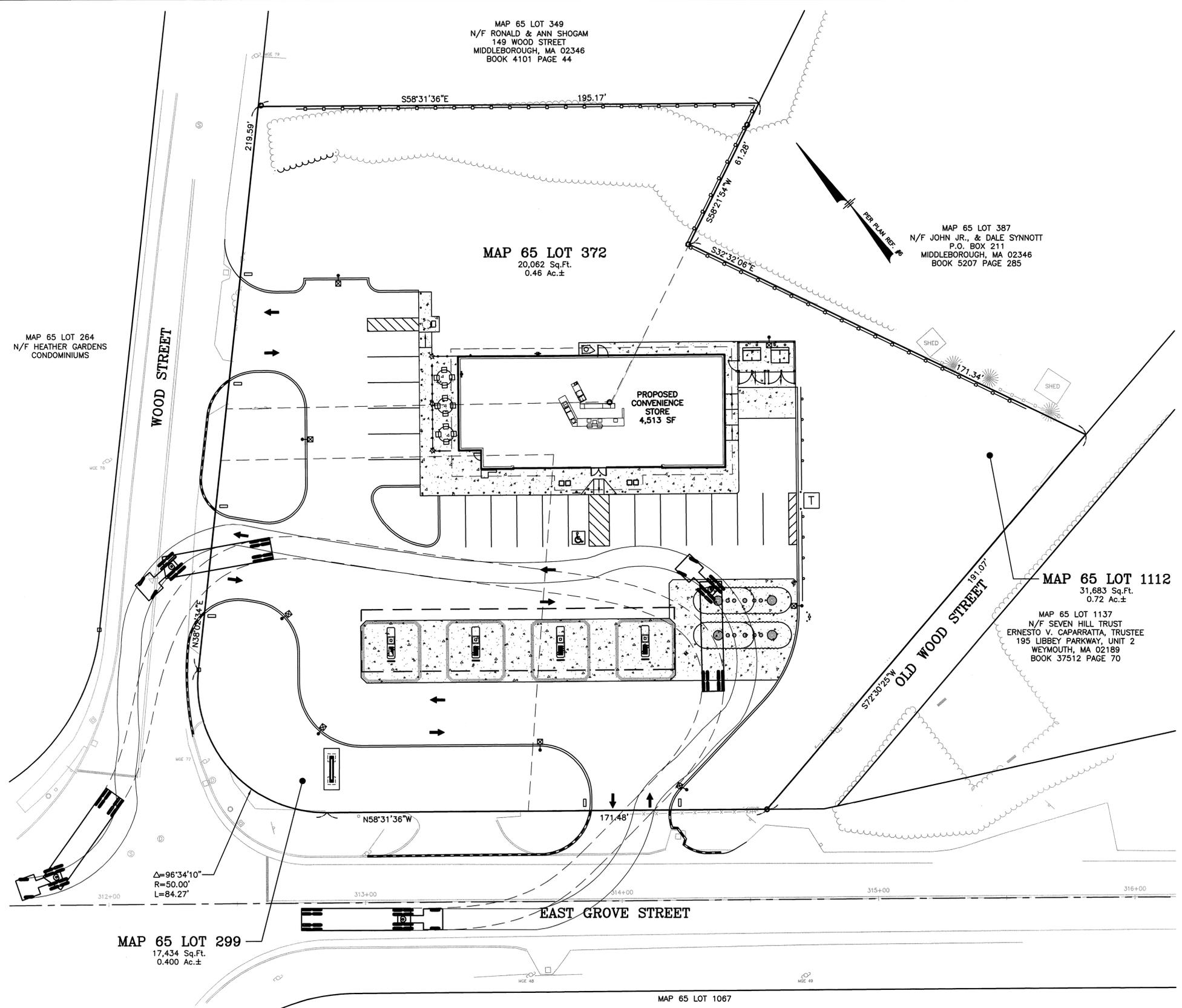
MAP 65 LOT 387
N/F JOHN JR. & DALE SYNNOTT
P.O. BOX 211
MIDDLEBOROUGH, MA 02346
BOOK 5207 PAGE 285

MAP 65 LOT 1112
31,683 Sq.Ft.
0.72 Ac.±

MAP 65 LOT 1137
N/F SEVEN HILL TRUST
ERNESTO V. CAPARRATTA, TRUSTEE
195 LIBBEY PARKWAY, UNIT 2
WEYMOUTH, MA 02189
BOOK 37512 PAGE 70

MAP 65 LOT 299
17,434 Sq.Ft.
0.400 Ac.±

MAP 65 LOT 264
N/F HEATHER GARDENS
CONDOMINIUMS



LEGEND

—●—	OVERHEAD SERVICE WIRES	⊕	UTILITY POLE
—■—	VERTICAL GRANITE CURB	⊗	DRAIN MANHOLE
—□—	VERTICAL CONCRETE CURB	⊙	SEWER MANHOLE
⊕	SIGN	⊖	TELEPHONE MANHOLE
⊕	OBSERVATION WELL	⊕	CATCH BASIN
⊕	SPOT ELEVATION	—	WATER LINE
⊕	CONTOUR ELEVATION	—	GAS LINE
⊕	LANDSCAPED	⊕	GAS VALVE
⊕	UNDERGROUND ELECTRIC	⊕	WATER VALVE
⊕	POST AND RAIL FENCE	⊕	FIRE HYDRANT

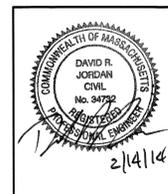


OWNERS OF RECORD:

MAP 65 LOT 299
TOMI, LLC
C/O HYLAN AUTO SALES
90 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
BOOK 32570 PAGE 63

MAP 65 LOT 372
EUGENE & CAROLINE WELDON
147 WOOD STREET
MIDDLEBOROUGH, MA 02346
BOOK 10506 PAGE 2

MAP 65 LOT 1112
92 EAST GROVE STREET TRUST
BRENDA J. WALANIS, TRUSTEE
92 EAST GROVE STREET
MIDDLEBOROUGH, MA 02346
BOOK 38430 PAGE 87



REVISIONS			69,179 SQUARE FEET 1.588± ACRES
DATE	REV. BY.	DESCRIPTION	
2/14/14	CMT	MISC. REVISIONS	V #X
			Store #X
			Gas Station#
			Facility #X

MHF Design Consultants, Inc.
44 Stiles Road, Suite One
Salem, New Hampshire 03079
(603) 893-0720
ENGINEERS • PLANNERS • SURVEYORS
www.mhfdesign.com

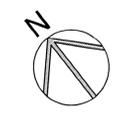
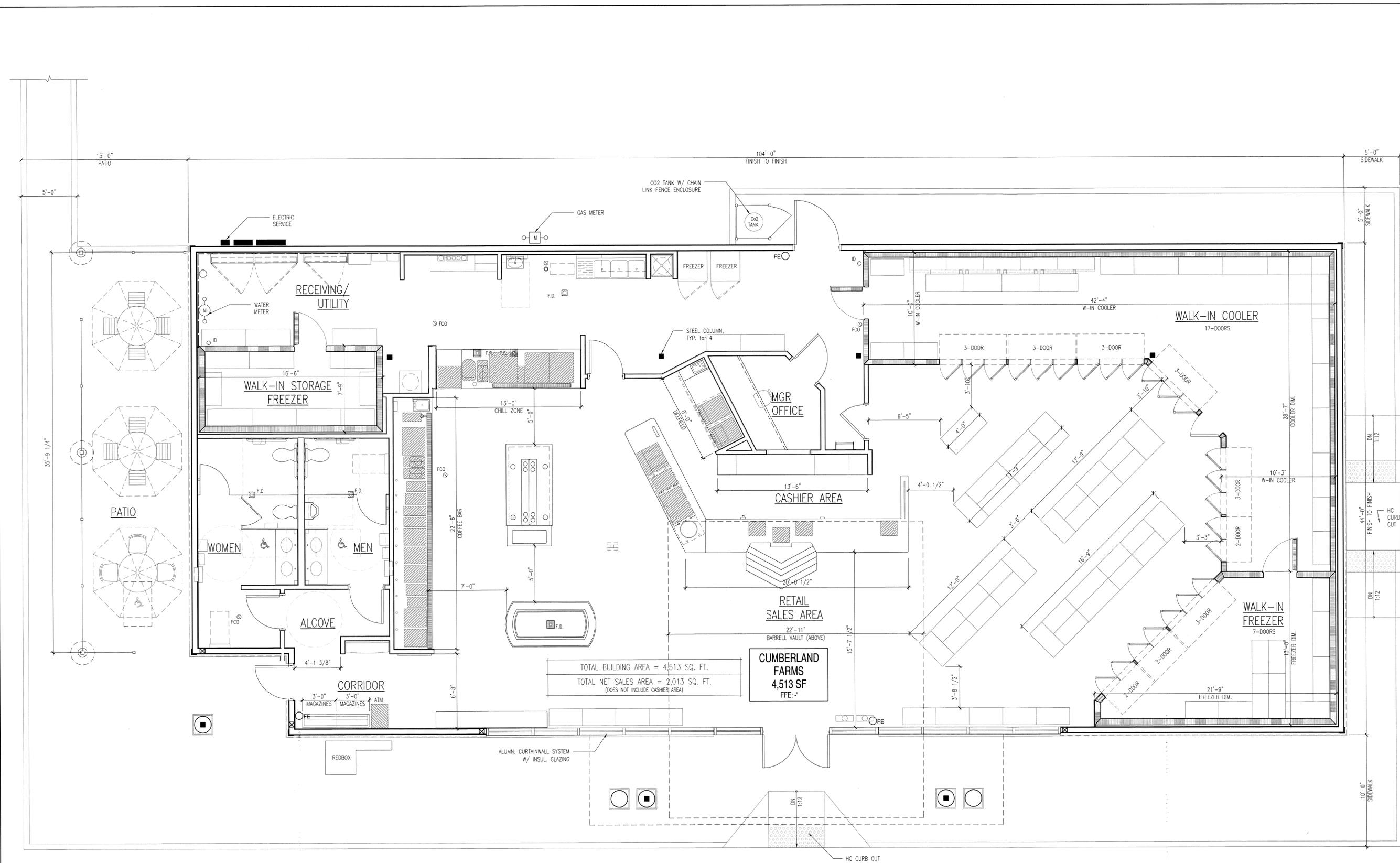
90 EAST GROVE STREET
MIDDLEBOROUGH, MASSACHUSETTS

Cumberland FARMS
CUMBERLAND FARMS INC.
100 CROSSING BLVD.
FRAMINGHAM, MA 01702

SCALE: 1"= 20'
DATE: DECEMBER 9, 2013
FILE: 3347SP.dwg
DRAWN BY: MHF
CHECKED BY:
TRUCK TURN PLAN(WB-50) CFG16.0

F:\Projects\CAD\334713\3347SP.dwg TTP 2/14/14 12:08pm cmt

No.	Date	Issued for
1	10/07/13	SD SUBMISSION
2	11/22/13	SD SUBMISSION



FINISH SCHEDULE					
ANNO #	DESC.	MANUFACTURER	MODEL	COLOR	NOTES
SW-1	SYNTHETIC WOOD TRIM & FASCIA	CERTAINTED	-	PT-5	PROVIDE SCARF JOINTS ON ALL EXTERIOR SYNTHETIC WOOD TRIM. GC TO PUTTY ALL NAIL HOLES & PAINT ALL SYNTHETIC WOOD TRIM & PANELS.
SW-2	SYNTHETIC WOOD TRIM	CERTAINTED	-	NOT USED	NOT USED
FB-1	FIBERGLASS COLUMN SHROUD	PACIFIC COLUMNS	-	SMOOTH WHITE FINISH	16"X10" ENDURA STONE PLAIN COLUMN ROUND SHAFT WITH TRUE ENTASIS TAPERED SMOOTH FINISH
VS-1	VINYL SIDING	CERTAINTED	MONOGRAM 46L DOUBLE 4"	HERRINGBONE	ROUGH CEDAR FINISH. PROVIDE ALL REQ'D ACCESSORIES AND TRIM FOR A COMPLETE INSTALLATION.
CS-1	CULTURED STONE	OWENS CORNING CULTURED STONE, LLC	CSV-2028 SOUTHERN LEDGESTONE	FOG	INSTALL DRYSTACK ONLY; SUPPLIED BY CFI
SHNG-1	ARCHITECTURAL ASPHALT SHINGLES	CERTAINTED LANDMARK	LANDMARK	COBBLESTONE GRAY	30-YEAR WARRANTY
GU-1	ALUMINUM GUTTER SYSTEM	ALCOA	TRADITIONAL SELECT S-6	WHITE	PROVIDE ALL ACCESSORIES REQ'D FOR A COMPLETE CONTINUOUS INSTALLATION. INSTALL PER MFG INSTRUCTIONS. ENSURE SEALED, WATERTIGHT CORNER CONNECTIONS. FLASH & SEAL TO DOWNSPOUTS AS REQ'D.

5 FINISH SCHEDULE
A3.1 SCALE: NTS

FRONT WALL SIGNAGE SPECIFICATION

CUSTOM FABRICATED INTERNALLY ILLUMINATED SIGN BOX
SUPPLIED BY OWNER - INSTALLED BY SIGN VENDOR
SIGN AREA = 37.6 SQ.FT



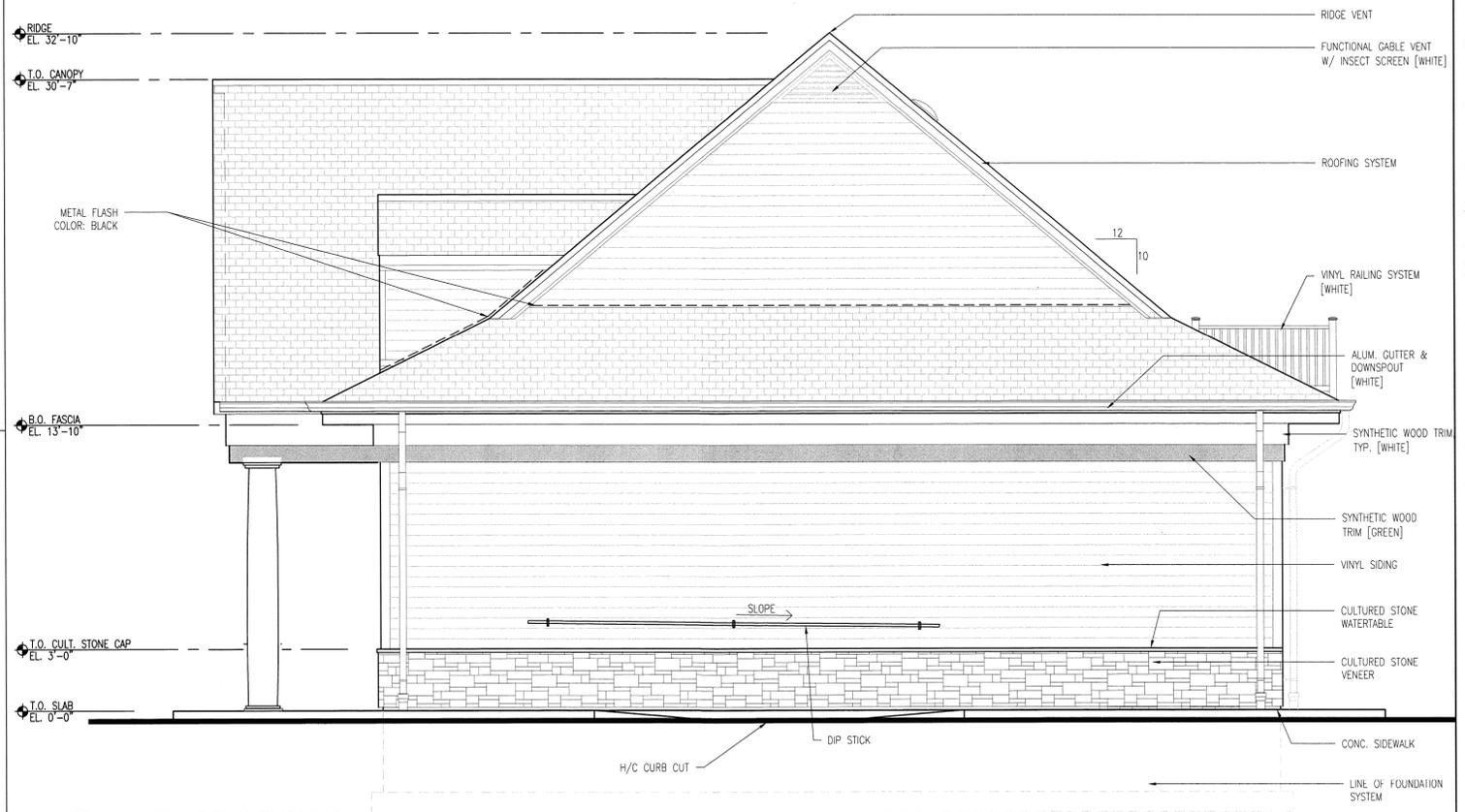
4 FRONT WALL SIGNAGE DETAIL
A3.1 SCALE: 1/4" = 1'-0"

SIDE WALL SIGNAGE SPECIFICATION

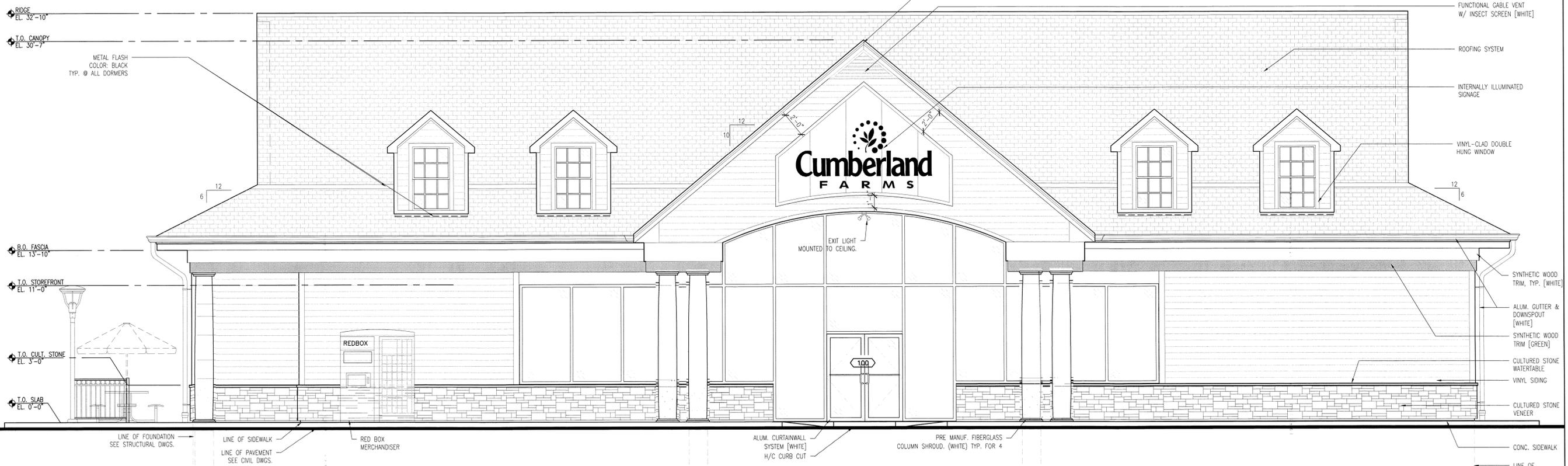
CUSTOM FABRICATED INTERNALLY ILLUMINATED SIGN BOX
SUPPLIED BY OWNER - INSTALLED BY SIGN VENDOR
SIGN AREA = 27.8 SQ.FT



3 SIDE WALL SIGNAGE DETAIL
A3.1 SCALE: 1/4" = 1'-0"



2 RIGHT SIDE ELEVATION
A3.1 SCALE: 1/4" = 1'-0"



1 FRONT ELEVATION
A3.1 SCALE: 1/4" = 1'-0"

Project Title
New Construction:

Cumberland FARMS
Store # TBD
Prop # TBD

87 East Grove Street
Middleborough, MA 02346

Owner
Cumberland Farms, Inc.
100 Crossing Blvd
Framingham, Ma
tel 508 271 6624

Architect
ALLEVATO

Allevalo Architects Inc
31 Hayward Street, Franklin MA 02038
tel 508 528 0770 fax 508 528 9454

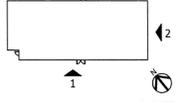
Seal

Consultant

Revisions

No.	Date	Issued for
1	10/07/13	SD SUBMISSION
2	11/22/13	SD SUBMISSION

Key Plan



Title
EXTERIOR ELEVATIONS

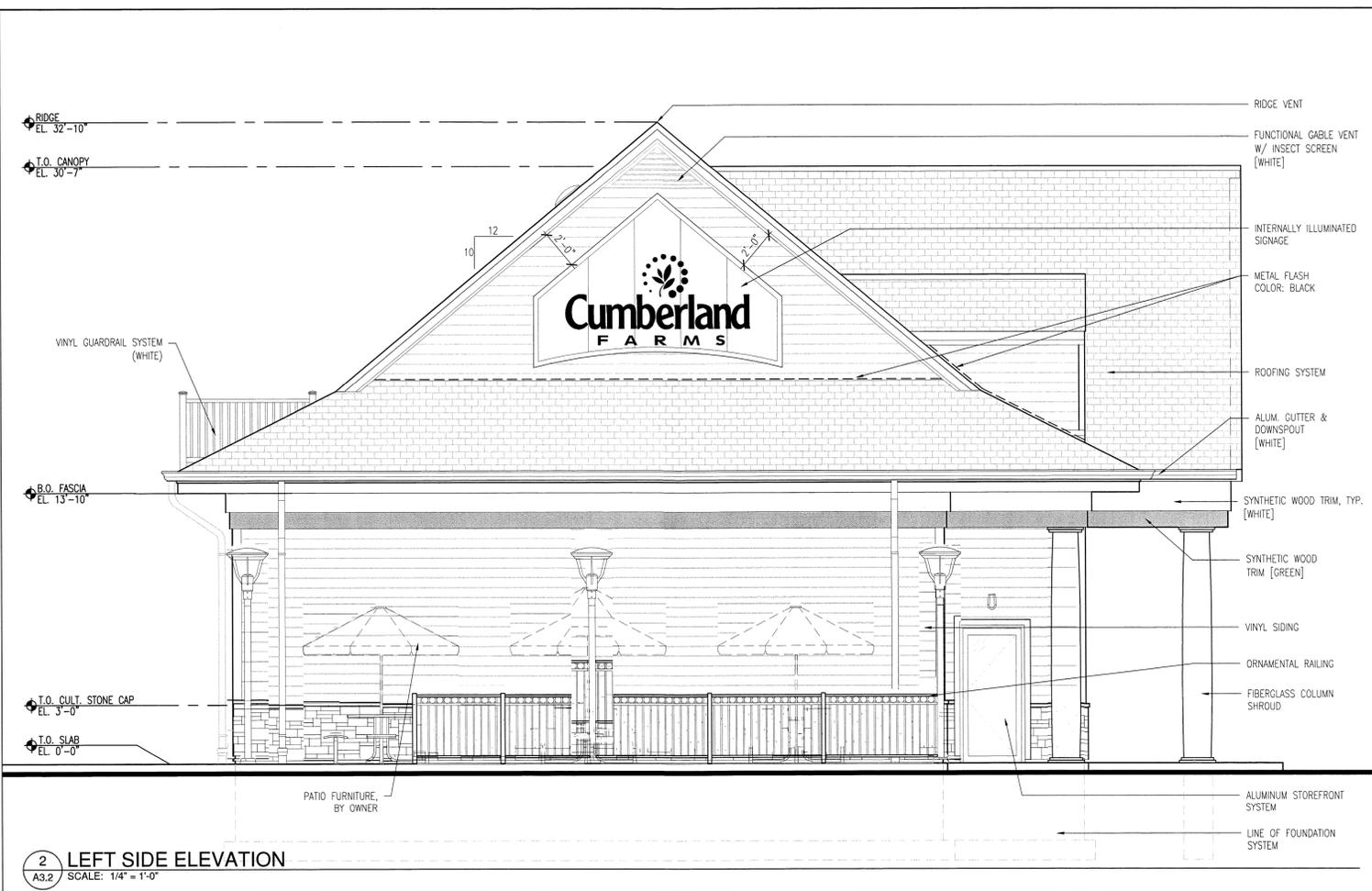
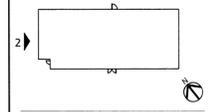
Date: 11/22/13

Drawing No.

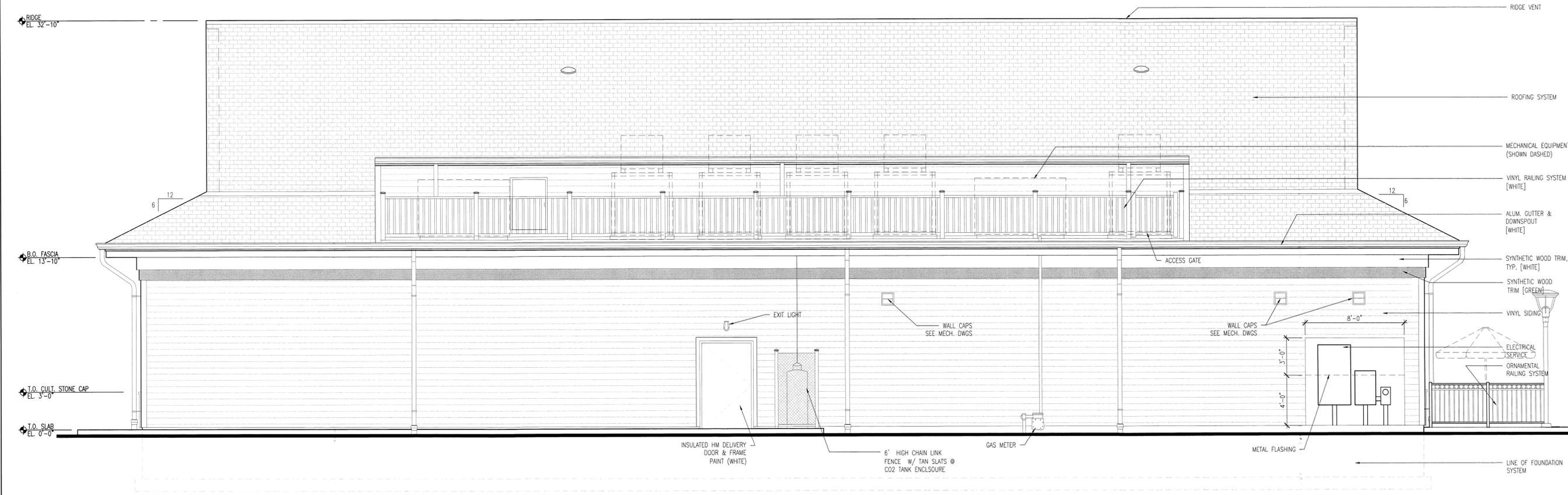
A3.1

Project No. 1300.62

No.	Date	Issued for
1	10/07/13	SD SUBMISSION
2	11/22/13	SD SUBMISSION

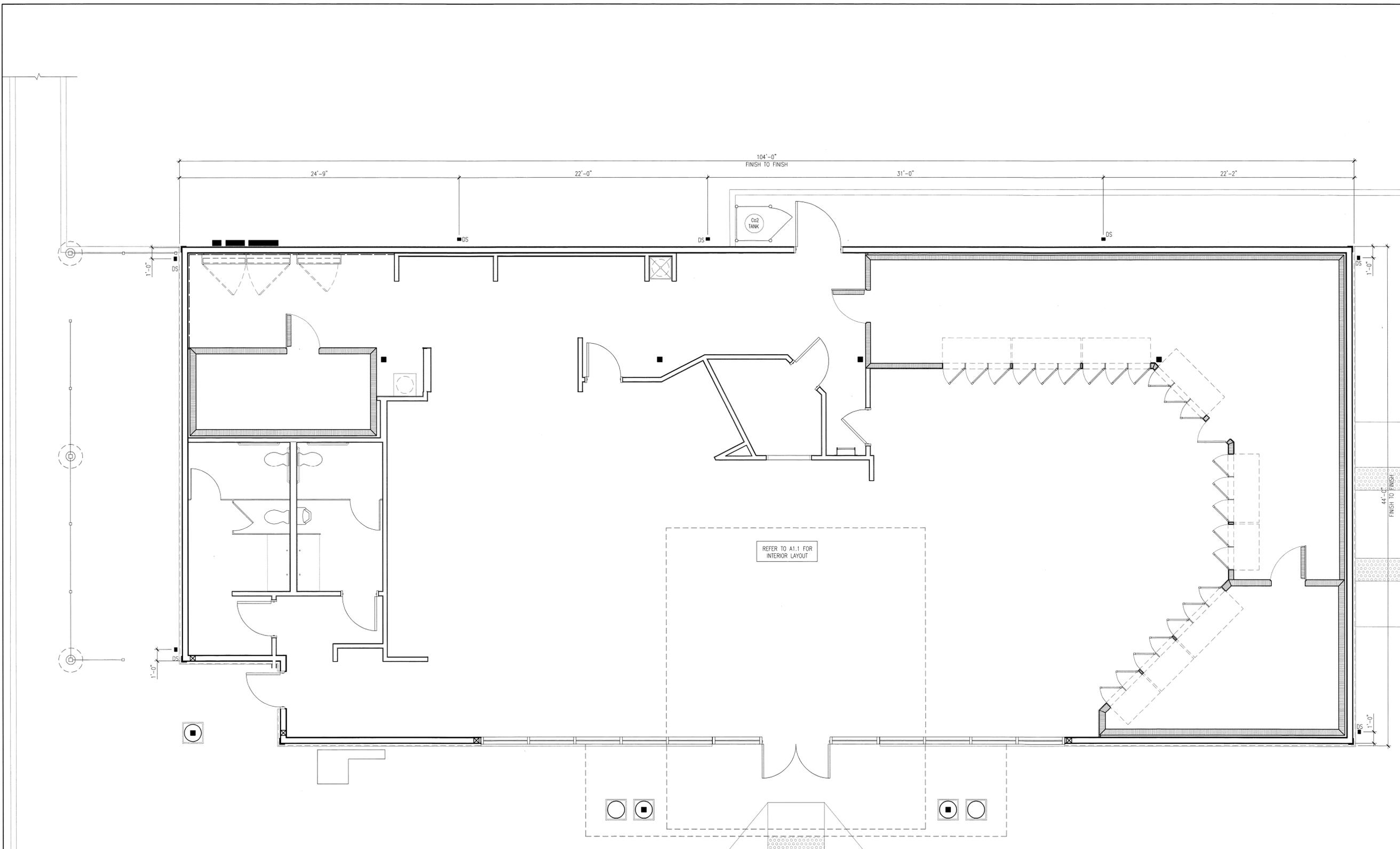


2 LEFT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



1 REAR ELEVATION
SCALE: 1/4" = 1'-0"

No.	Date	Issued for
1	10/07/13	SD SUBMISSION
2	11/22/13	SD SUBMISSION



No.	Date	Issued for
1	10/07/13	SD SUBMISSION
2	11/22/13	SD SUBMISSION

