PROJECT INFORMATION

SITE ADDRESS - 23 CENTRAL STREET, BYFIELD, MA || ASSESSOR MAP R-20-0-28

OWNER - R&E REALTY TRUST, 2 FRUIT STREET, BYFIELD MA 01922 TRUSTEES RONALD O. PEARSON & EDNA L. PEARSON

APPLICANT - A.L. PRIME ENERGY CONSULTANT, INC., 18 LARK AVE, SAUGUS MA

- ANTHONY GUBA FNGR 512-745-6400
- NASSER ABU-EID, VP 617-212-3551

EMERGENCY - 911 || DIGSAFE - 811

BYFIELD INSPECTIONAL SVCS AND BLDG COMMISSIONER - 978-465-0862

BYFIELD FIRE DEPT (BUSINESS) - 978-462-2282 BYFIFLD POLICE (BUSINESS) - 978-462-4440

BYFIELD PUBLIC WORKS - 978-465-0112

ELECTRIC UTILITY - NATIONAL GRID - 800-233-5325

GAS UTILITY - NATIONAL GRID - 800-233-5325

WATER LITH ITY - BYFIELD WATER DISTRICT - 978-462-3023

SEWER UTILITY - ON SITE SEPTIC SYSTEM, BD OF HEALTH - 978-465-0862 x316

PROJECT GENERAL SCOPE OF WORK

THIS PROJECT IS INTENDED TO REPLACE THE EXISTING NON-CONFORMING RESIDENTIAL USE WITH AN ALLOWED BUSINESS USE - NEW CONVENIENCE STORE AND GAS STATION. THE WORK

- DEMOLISH ALL EXISTING IMPROVEMENTS AT THE PROPERTY
- INSTALL NEW STORMWATER STRUCTURES INCLUDING SUBSURFACE INFILTRATION
- CONSTRUCT NEW ~4,000 SF CONVENIENCE STORE INCLUDING COFFEE DRIVE-THRU (WITH LIMITED INSIDE SEATING).
- INSTALL ALL NEW UTILITIES
- CONSTRUCT NEW STEEL CANOPY OVER FUELING AREAS
 INSTALL UG MOTOR FUEL STORAGE TANKS AND ASSOCIATED UG PIPING TO INCLUDE DIESEL, FUEL DISPENSERS, ISLANDS, AND DRY CHEMICAL FIRE SUPPRESSION SYSTEM AT
- INSTALL ALL NEW CURBING, PAVING, ACCESS DRIVEWAYS AND SITE LANDSCAPE
- THE BUSINESS IS PROPOSED TO OPERATE 24 HRS

CODES SUMMARY

- SOURS.

 MA STATE BUILDING CODE 780, 9TH EDITION BASED ON MODIFIED VERSION OF 2015
 INTERNATIONAL CODES AS PUBLISHED BY INTL CODE COUNCIL (ICC):
 - IBC INTL BUILDING CODE
 - IECC INTL ENERGY CONSERVATION CODE
- IMC INTL MECHANICAL CODE IFC - PORTIONS OF INTL FIRE CODE
- MA STATE FIRE CODE 527 CMR 1.00, 2015 EDITION MA ELECTRICAL CODE 527 CMR 12.00, 2017 EDITION
- MA UNIFORM STATE PLUMBING CODE 248 CMR 10, 2017 EDITION
- ARCHITECTURAL ACCESS BOARD REGULATIONS CMR 521 CMR
- EPA GEN CONST PERMIT SITE IS LESS THAN ONE ACRE AND CONST PHASE RUNOFF WILL BE RETAINED ON SITE. HOWEVER, GC TO VERIFY NPDES PERMIT NOT REQ'D PRIOR TO CONST

OCCUPANCY - USE GROUP M MERCANTILE - CONVENIENCE STORE AND GAS STATION TOTAL GROSS FOOT AREA - ~4,000 GFA CONVENIENCE STORE

CONSTRUCTION TYPE - IIIB - NON COMBUSTIBLE EXT WALLS, STEEL ROOF FRAMING/DECK HEIGHT - ~20'-2" (SINGLE STORY)

- MAX EGRESS TRAVEL DISTANCE 75 FEET SINGLE STORY
- PROVIDED EGRESS WIDTH 72" ONE EACH EGRESS AT FRONT CENTER
- OCCUPANCY CALC 69 = 60 MERCANTILE + 4 KITCHEN + 5 STORAGE
- OCCUPANCY EXCEEDING 49 REQUIRES SECONDARY EGRESS

FIRE PROTECTION: UNPROTECTED CONSTRUCTION, PROVISIONS MADE FOR SMOKE DETECTORS. EMERGENCY LIGHTING AND SIGNAGE. HORN AND STROBE ANNUNCIATORS

- COMPLY WITH STATE PLUMBING AND FUEL GAS CODES
- MIN OF ONE RESTROOM FOR MEN AND ONE RESTROOM FOR WOMEN COMPLY WITH BOARD OF HEALTH REQUIREMENTS FOR RETAIL AND FOOD SERVICE
- ON-SITE SEPTIC SYSTEM PER APPROVED DESIGN
- EXTERNAL GREASE TRAP TO BE INSTALLED

ENERGY: CLIMATE ZONE 5

- WALLS CMU WITH FURRED INTERIOR DRYWALL R 13.3ci FLAT ROOF - R 30 ci
- SLAB ON GRADE R-15 FOR 36" BELOW
- WINDOWS AND STOREFRONT SOUTHWEST FACING
- -- NO OPERABLE FENESTRATION
- -- U 0.38 FIXED, 0.77 ENTRANCE DOOR

DESIGN LOADS:

- GROUND SNOW LOAD 50 PSF
- ROOF TOP MECH LOAD POINT LOAD SPECIFIED ON STRUCTURAL SHEET
- ROOF UPLIET 40PSF
- PRESUMPTIVE SOIL BEARING 2,500 PSF
- DESIGN WIND LOAD (I) 114MPH, (II) 125MPG, (III) 136MPG



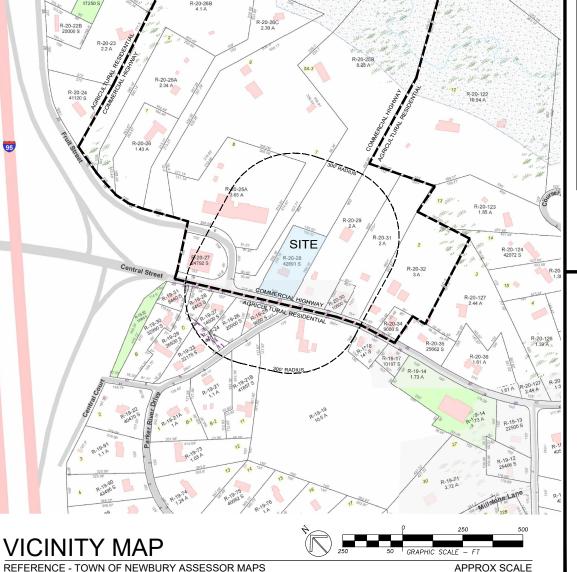
A.L. PRIME ENERGY CONSULTANT, INC.

18 LARK AVENUE SAUGUS MA 01906 (781) 246-0201

NEW GAS STATION, C-STORE, DRIVE-THRU A.L. PRIME #TBD

23 CENTRAL STREET BYFIELD, MASS

APPLICANT CONTACT: ANTHONY GUBA, P.E. -- MOBILE 512-745-6400



DRAWING INDEX

THIS SET ISSUED FOR SPR & SP 01/06/21 (4th) HRG, W/ REV PER CMTS

			ORIG DATE	LAST REV	REV DATE	
C-0	COVER	01	29 APR 2020	4	13 DEC 20	
1 of 2	EXSTG CONDITIONS SHT 1 OF 2 (ELS, LLC)	02	12 DEC 2019	4	20 AUG 20	
2 of 2	EXSTG CONDITIONS SHT 2 OF 2 (ELS, LLC)	03	12 DEC 2019	4	20 AUG 20	
1	EASEMENT PLAN SHT 1 (ELS, LLC)	04	22 SEP 2020	NONE	N/A	
C-1.0	PROPOSED SITE IMPROVEMENTS	05	29 APR 2020	4	13 DEC 20	
C-2	GRADING	06	29 APR 2020	3	2 DEC 20	
C-3	UTILITIES	07	29 APR 2020	3	2 DEC 20	
ER-1	EROSION CONTROL	08	29 APR 2020	29 APR 2020 3		
SW-1	STORMWATER AREAS	09	29 APR 2020	3	2 DEC 20	
L-1	LANDSCAPE	10	29 APR 2020	3	27 NOV 20	
6493	LIGHTING (RED LEONARD ASSOC)	11	04 DEC 2019	1	1 SEP 20	
TR-1	EMGCY, TANKER, & DRIVE-THRU VEH PATH	12	29 APR 2020	2	28 OCT 20	
TK-1	TANK AND PIPING LAYOUT	13	29 APR 2020	4	13 DEC 20	
TK-2	TANK AND PIPING DETAILS	14	29 APR 2020	NONE	N/A	
FSP-1	SELF SERVICE FIRE SUPPRESSION	15	29 APR 2020	3	13 DEC 20	
FSP-2	SELF SERVICE FIRE SUPPRESSION	16	29 APR 2020	2	28 OCT 20	
SD-1	SITE DETAILS	17	29 APR 2020	2	28 OCT 20	
SD-2	SITE DETAILS	18	29 APR 2020	3	13 DEC 20	
A1.0	FLOOR PLAN	19	29 APR 2020	3	13 DEC 20	
A2.1	BUILDING ELEVATIONS	20	29 APR 2020	1	23 SEP 20	
A2.2	BUILDING ELEVATIONS	21	29 APR 2020	2	28 OCT 20	
A2.3	CANOPY ELEVATIONS	22	29 APR 2020	2	28 OCT 20	
SG-1	SIGN AND GRAPHICS	23	29 APR 2020	1	23 SEP 20	



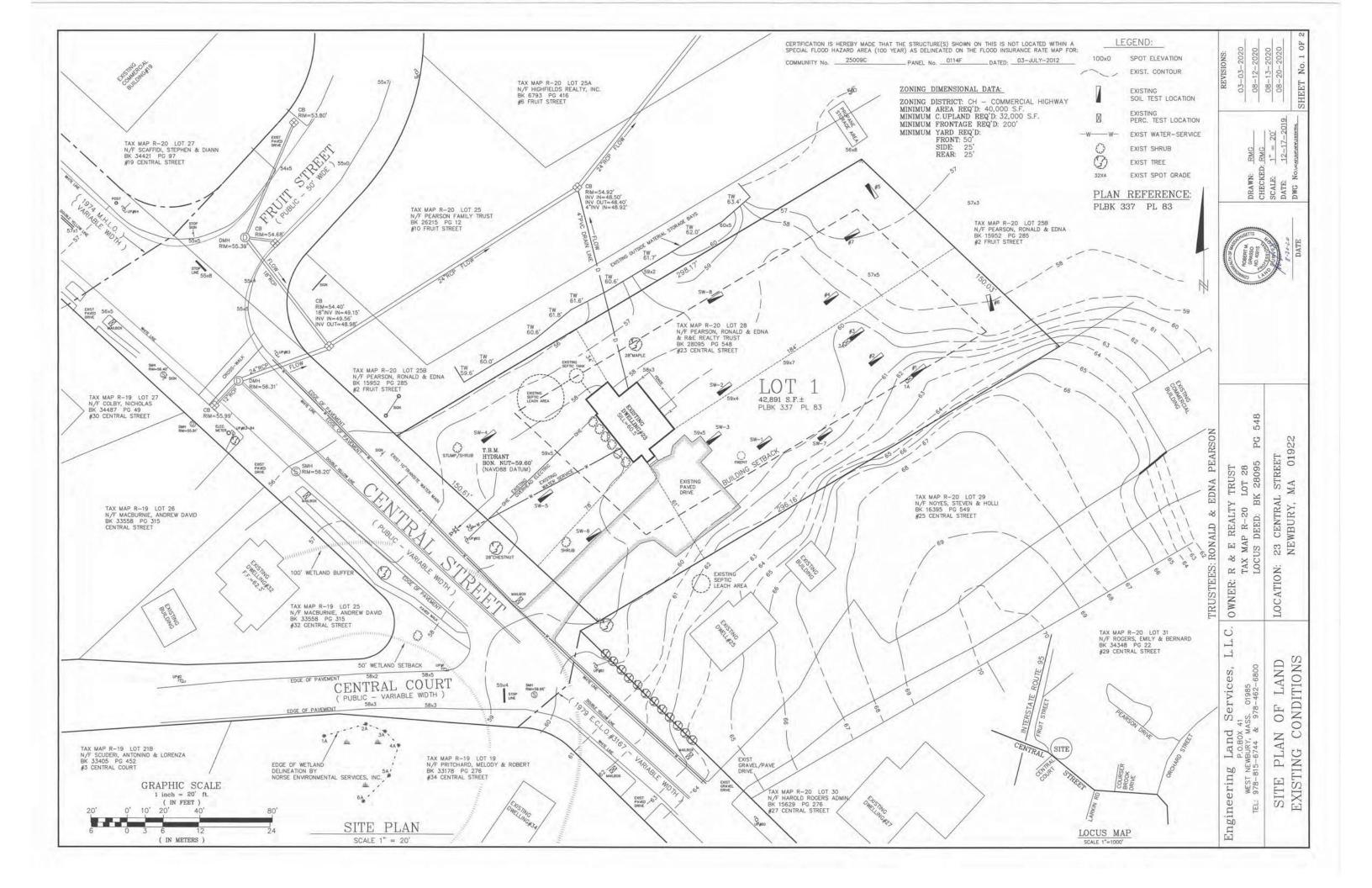


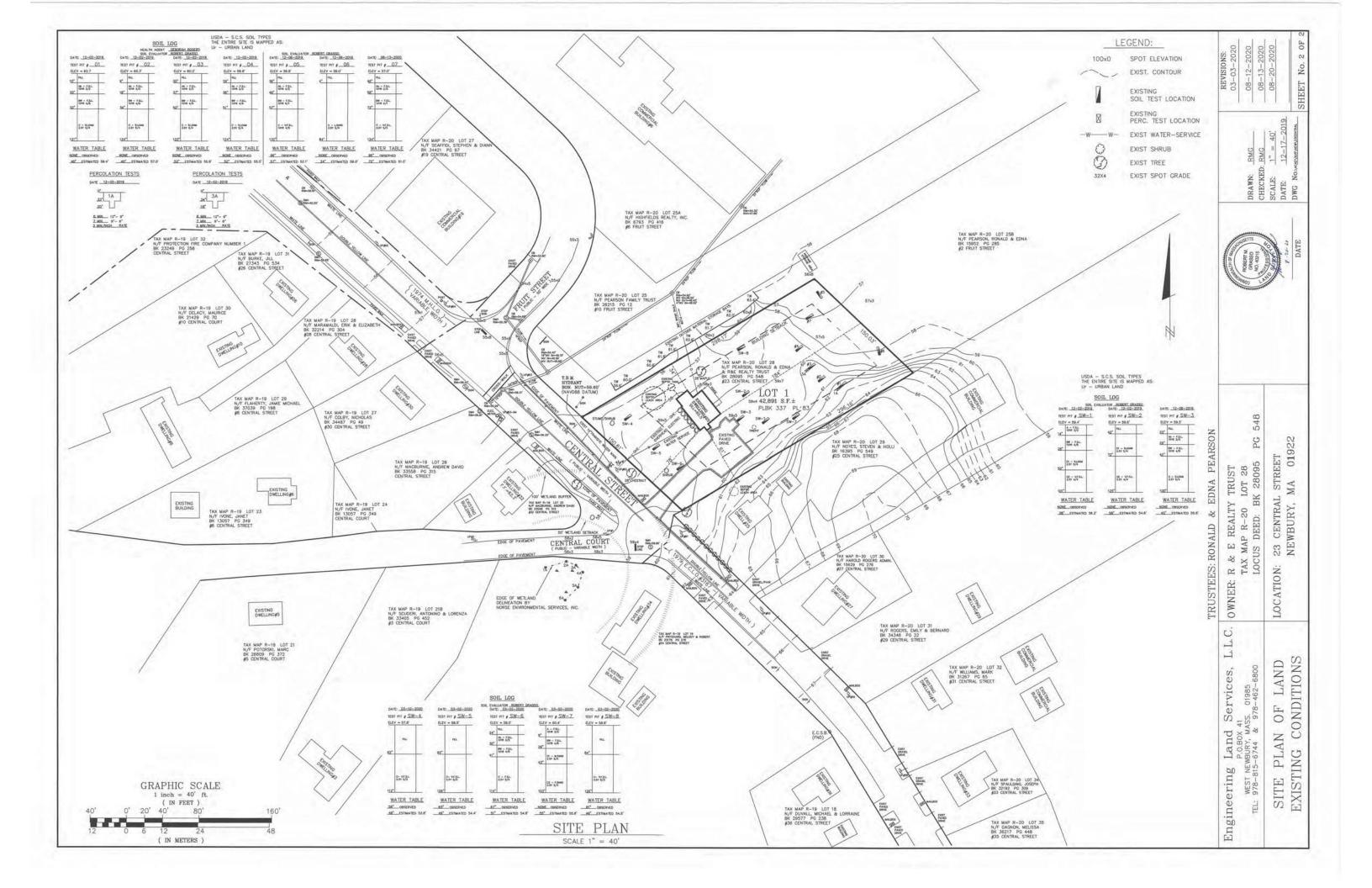
A.L. PRIME ENERGY CONSULTANT, INC.

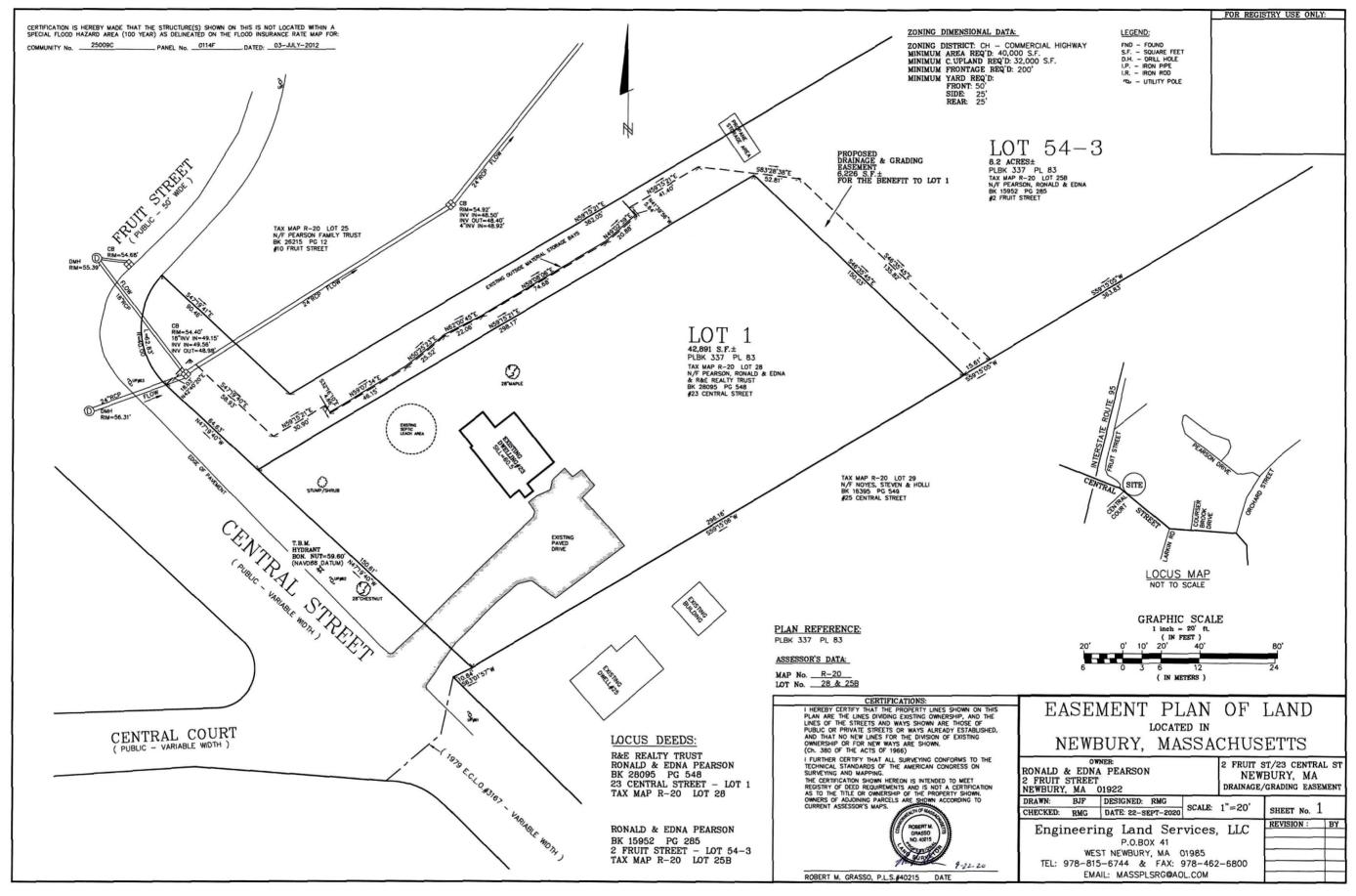
BYFIELD. MA 23 CENTRAL STREET

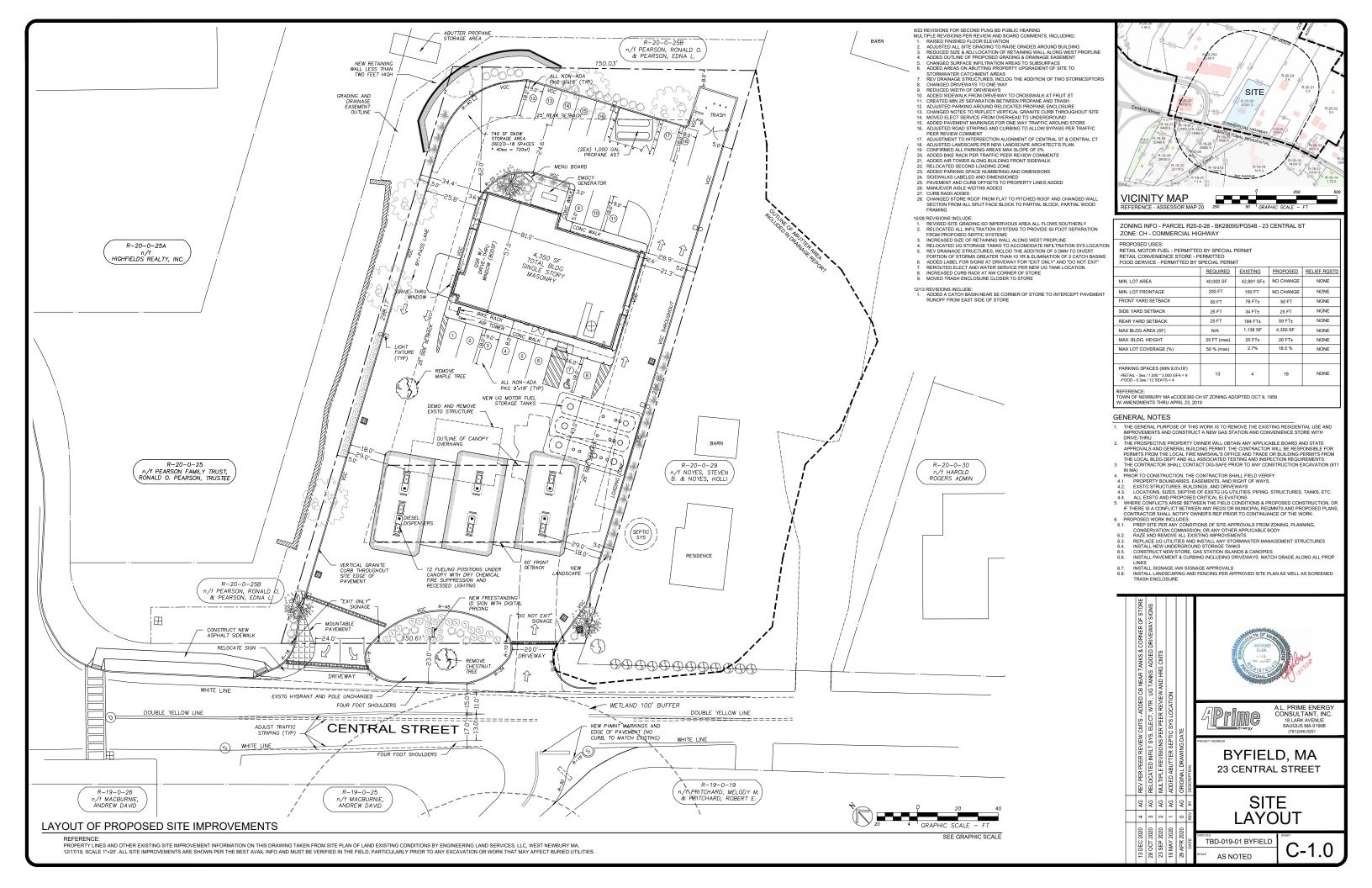
PROJECT COVER SHEET

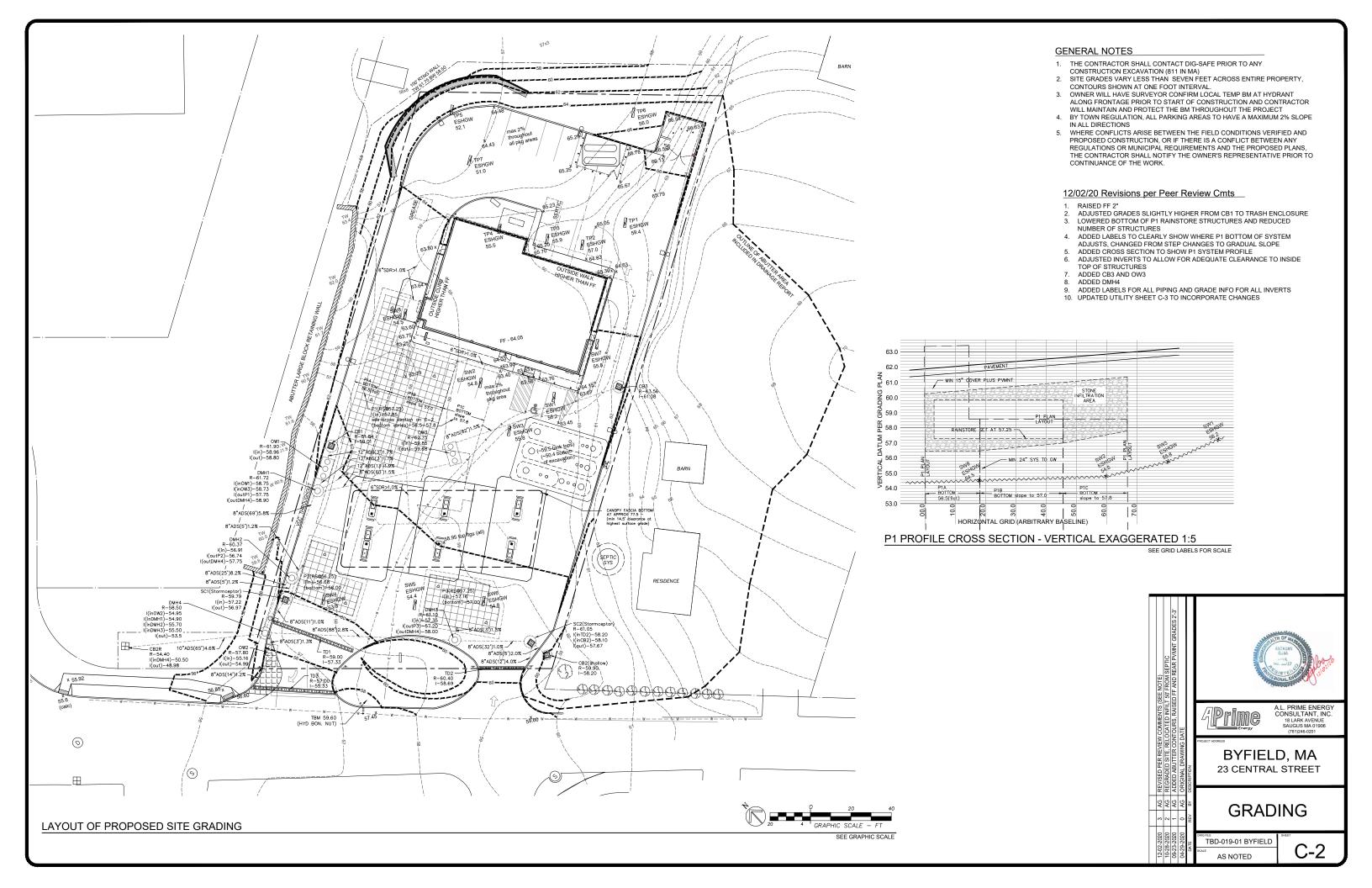
TBD-019-01 BYFIELD AS NOTED

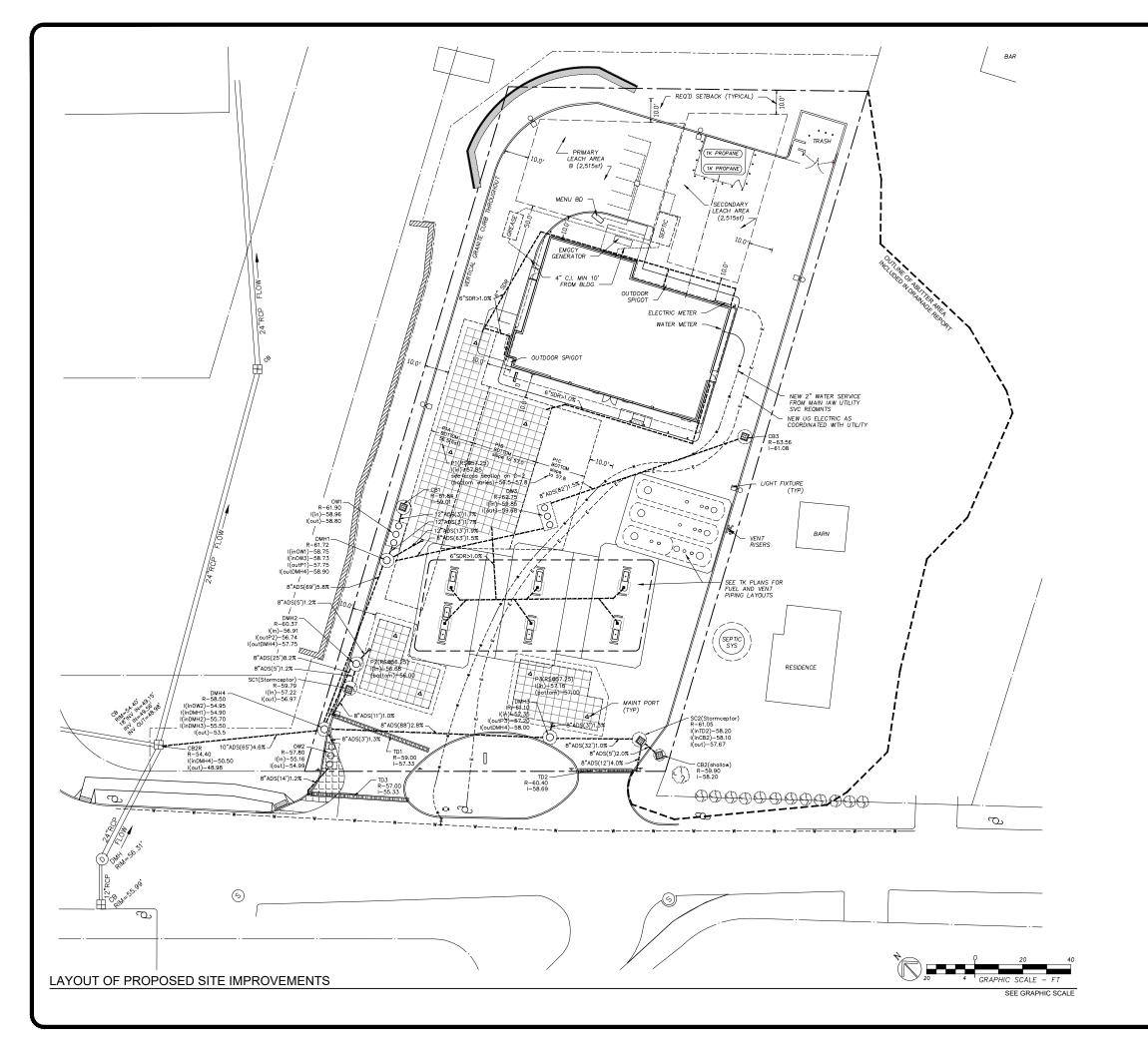












- 1. SITE WILL BE SERVED BY ON SITE SEPTIC. PERC TESTING AND PRELIMINARY DESIGN HAS BEEN COMPLETED TO CONFIRM THAT THE SITE LAYOUT WILL PROVIDE NECESSARY AREA, GRADING AND DEPTH FOR THE FINAL SEPTIC DESIGN. A DETAILED SEPTIC PLAN WILL BE PREPARED FOR MUNICIPAL APPROVAL FOLLOWING APPROVAL OF THE SITE PLAN, SPECIAL PERMIT, AND OTHER REQUIRED PERMITTING.
- A NEW 2" WATER SERVICE IS PROPOSED. THE CLOSURE OF THE EXISTING SERVICE AND TIE FOR THE NEW SERVICE WILL BE COMPLETED IN ACCORDANCE WITH UTILITY PROVIDER REQUIREMENTS.
- 3. A NEW OVERHEAD ELECTRIC SERVICE WILL BE ROUTED ALONG THE EAST PROPERTY LINE TO THE NEW BUILDING.
 AN EMERGENCY GENERATOR IS PROPOSED TO BE INSTALLED.
- PROPANE TANKS WILL BE INSTALLED FOR BUILDING HEATING, GENERATOR, AND KITCHEN APPLIANCES AS NECESSARY.
- THE CONTRACTOR SHALL CONTACT DIG-SAFE PRIOR TO ANY
- CONSTRUCTION EXCAVATION (811 IN MA)
 WHERE CONFLICTS ARISE BETWEEN THE FIELD CONDITIONS VERIFIED
- AND PROPOSED CONSTRUCTION, OR IF THERE IS A CONFLICT BETWEEN ANY REGULATIONS OR MUNICIPAL REQUIREMENTS AND THE PROPOSED PLANS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUANCE OF THE WORK
- 8. PROPOSED WORK INCLUDES THE INSTALLATION OF NEW SUBSURFACE STORMWATER INFILTRATION SYSTEMS FOR THE BUILDING AND CANOPY ROOF DRAINS AS WELL AS THE MAJORITY OF THE NEW PAVEMENT AREA.

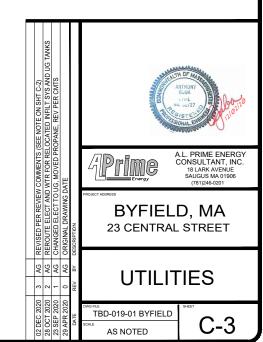
 9. IT IS INTENDED TO LEAVE UNCHANGED THE EXISTING FIRE HYDRANT
- AT APPROXIMATELY THE MIDDLE OF THE PROPERTY FRONTAGE.

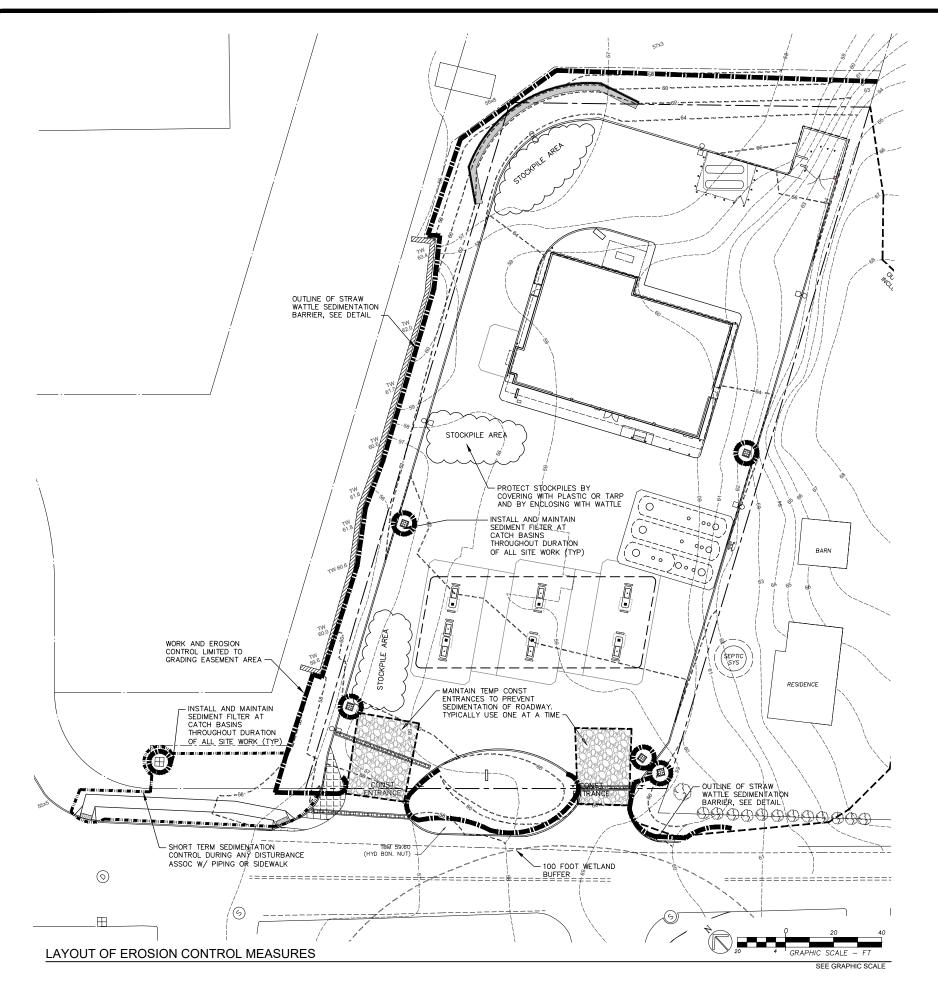
 10. A.L. PRIME OR ITS INSTALLATION CONTRACTOR WILL OBTAIN UTILITY APPROVALS AND PAY WATER CONNECTION FEES AS APPLICABLE
- PRIOR TO ANY WATER UTILITY WORK.

 11. SEE THE TANK AND PIPING PLANS FOR LAYOUT OF MOTOR FUEL AND

ANTICIPATED WATER AND SEWER ROMNTS

- 1. ANTICIPATED WATER AND SEWER FLOWS OF 1,500 GALLONS PER DAY BASED ON MA TITLE V AND SIMILAR STATION EXPERIENCE:
- RESTAURANT (MIN) 1000 GPD
- RETAIL STORE (MIN) 200 GPD
- 1.2. RETAIL STORE (MIN) 200 GPE 1.3. MOTOR FUEL (MIN) 300 GPD





EROSION CONTROL AND SOIL STABILIZATION

SEE DETAIL SHEETS FOR ADDITIONAL DETAILS

TEMPORARY STABILIZATION

- ALL DISTURBED SLOPES SHALL BE STABILIZED WITH TEMPORARY TREATMENT SUCH AS EROSION CONTROL BLANKETS OR HYDRO SEEDED AND PROTECTED WITHIN ONE WEEK OR BEFORE ANY EXPECTED STORM EVENT.
- EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED DAILY
 TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL,
- STONES, ROOTS, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS
 DESIGN SEED MIX SHALL BE COMPRISED OF THE FOLLOWING SEED RATE MIXTURE

 1. PER ACRE: 20 LBS TALL FESCUE, 20 LBS CREEPING RED FESCUE, 8 LBS BIRDSFOOT

- PER 1,000 SF: 0.45 LBS TALL FESCUE, 0.45 LBS CREEPING RED FESCUE, 0.20 LBS BIRDSFOOT TREFOIL.
- TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, FIBER MULCH, OR PROTECTIVE COVER SUCH AS BURLAP, JUTE, FIBERGLASS NETTING OR BLANKETS. HAY OR STRAW SHOULD BE APPLIED AT MAXIMUM OF 3 TONS PER ACRE.
- ALL TEMPORAY PROTECTION INCLUDING SILT FENCE, HAY BALES OR STRAW WATTLES SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR GROUND COVER IS ESTABLISHED.
- ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT.
 STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS AND SHALL HAVE MAX SIDE SLOPE LESS THAN 2:1.
- CONTRACTOR TO TAKE WHATEVER MEASURES APPROPRIATE DURING EACH PHASE OF WORK TO DIVERT RUNOFF AROUND DISTURBED AREAS AND TO LIMIT THE AMOUNT OF RUNOFF FLOWING INTO OR THROUGH DISTURBED AREAS.

CONSTRUCTION SEQUENCE

- ESTIMATED TIME OF CONSTRUCTION FOR THIS PROJECT IS FIVE MONTHS.
- TEMPORARY CONTROL MEASURES AND ANY REQUIRED MA DEP SIGNAGE TO BE INSTALLED PRIOR TO ANY SITE WORK OR DEMO OF EXISTING IMPROVEMENTS.
 INSTALL PERIMETER FENCING, SILT CONTROLS, CONSTRUCTION ENTRANCES AND
- ESTABLISH STOCKPILE AREAS PRIOR TO SITE WORK EXCAVATION.
 THROUGHOUT THE COURSE OF THE WORK, MAINTAIN EROSION AND SEDIMENTATION
 CONTROL STRUCTURES AS NECESSARY TO KEEP ALL OPERATING AS INTENDED.
- DRAINAGE SHALL BE PREVENTED FROM ENTERING SUBSURFACE INFILTRATION SYSTEM BEFORE THE SYSTEM IS COMPLETED AND BACKFILLED. 6. TEMPORARY HAY BALES, STRAW WATTLES, OR SILT FENCES MAY BE REMOVED AFTER FINAL
- SOIL STABILIZATION AND BASE PAVEMENT HAS BEEN INSTALLED AND ISSUANCE OF ANY REQUIRED APPROVAL FROM MUNICIPAL AUTHORITY.
- CATCH BASIN INLET PROTECTION MUST REMAIN UNTIL BASE PAVEMENT IS INSTALLED AND
- ALL STOCKPILES ARE REMOVED AND NO LONGER NECESSARY.

 AT THE CONCLUSION OF CONSTRUCTION AND AFTER ALL FINAL STABILIZATION IS ACHIEVED,
 CLEAN ALL DRAINAGE STRUCTURES OF ALL DIRT, DEBRIS, OR ANY LOOSE MATERIALS.

SEDIMENTATION CONTROL AND CONSTRUCTION OPN AND MAINT PLAN

- 1. CARE SHALL BE TAKEN TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING ROADWAYS OR ANY DRAINAGE STRUCTURE
- PROTECT ALL INLETS, STOCKPILES AND UN-ESTABLISHED SOIL AREAS DURING STORMS AND
- INSPECT ALL SEDIMENTATION CONTROL DEVICES PROMPTLY AFTER EACH RAINFALL AND
- REPAIR OR CLEAN OUT SEDIMENTATION AS NECESSARY.

 INSTALL ADDITIONAL CONTROL MEASURES AS NECESSARY AS CONDITIONS WARRANT.
- AT THE END OF EACH WORK DAY, COVER ALL STOCKPILES AND INSURE ALL SEDIMENTATION CONTROL DEVICES ARE IN PLACE. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN
- SEDIMENT SHALL BE REMOVED FROM SILT WATTLE BARRIER ONCE THE VOLUME REACHES $\frac{1}{4}$ HEIGHT OF THE WATTLE.
- CONSTRUCT AND MAINTAIN A TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO EXISTING PAVED AREAS ARE DISTURBED AND CONSTRUCTION VEHICLES START TRACKING SEDIMENTATION INTO THE ROADWAY. CONSTRUCTION ENTRANCE(S) WILL BE MONITORED AND CLEANED OF SEDIMENT AS NEEDED ON A DAILY BASIS. SWEEP THE CONSTRUCTION SITE AND ENTRANCES AS NECESSARY TO PREVENT TRACKING OF SEDIMENTATION INTO
- TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE DISTURBED, STOCKPILED IN APPROVED AREAS AND STABILIZED WITH TEMP VEGETATIVE COVER IF TO BE LEFT STOCKPILED FOR MORE THAN 30 CALENDAR DAYS.

 9. MAINTAIN PROPER DUST CONTROL THROUGHOUT THE PROJECT.

 10. INSTALL A CONTINUOUS LINE OF SEDIMENTATION CONTROL ALONG THE PERIMETER OF ALL
- CONSTRUCTION ACTIVITY PER THE EROSION CONTROL SITE PLAN.

 11. PROTECT THE INLET OF ALL CATCH BASINS SUBJECT TO POSSIBLE RUNOFF FROM THE SITE
- WITH SEDIMENT FILTER AND INSPECT THE FILTER AFTER ALL RAINFALLS AND ANY RUNOFF
- THAT REACHES THE CATCH BASIN.

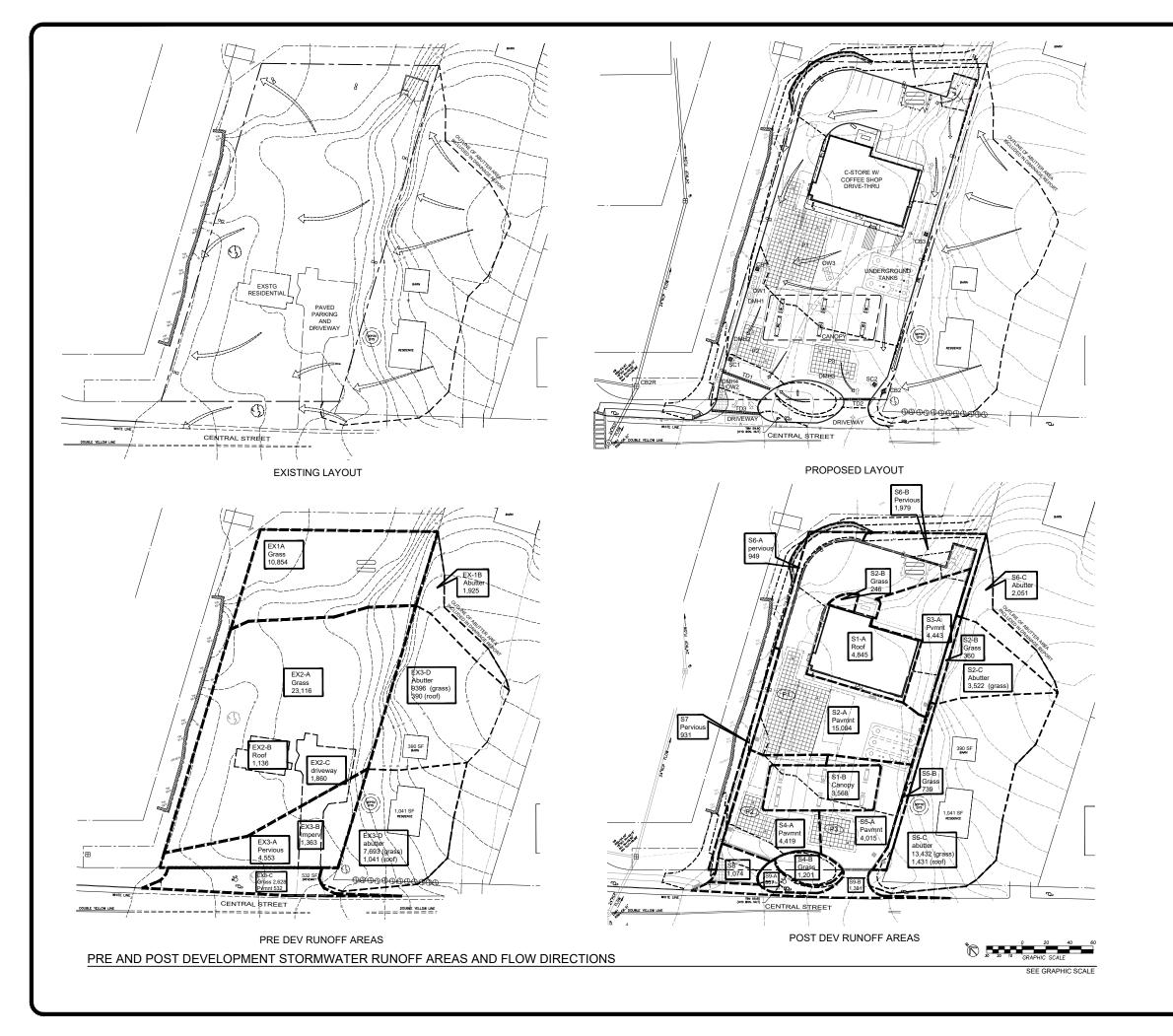
 12. INSURE PROPER HANDLING OF CONCRETE WASH OR OTHER CONSTRUCTION ACTIVITY TO PREVENT ANY SUCH WASH FROM REACHING THE CATCH BASIN OR ROADWAY.

POST CONSTRUCTION

- 1. UPON COMPLETION OF CONSTRUCTION, STORM WATER CONTROLS ARE TO BE MAINTAINED IN ACCORDANCE WITH FOLLOWING PERMANENT PROCEDURES:
- CATCH BASINS SHALL BE INSPECTED AT LEAST ANNUALLY AND CLEANED AS
- MAINTAIN A WRITTEN EMERGENCY RESPONSE PROCEDURE AND TRAIN ALL SITE EMPLOYEES HOW TO RESPOND IN CASE OF ANY SPILL
- PAVED AREAS SHOULD BE SWEPT AT LEAST ANNUALLY IN SPRING TO REMOVE SEDIMENT ACCUMULATED THROUGH THE WINTER
 LANDSCAPE AREAS ARE TO BE MAINTAINED AND ANY BARE SOIL IN GRASSED AREAS SHALL
- DE NESSEEUEU. SEE WRITTEN OPERATION AND MAINTENANCE PLAN SUBMITTED AS PART OF SITE PLAN APPLICATION.

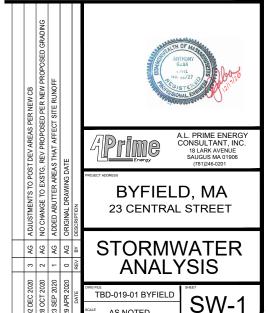


18 LARK AVENUE SAUGUS MA 01906

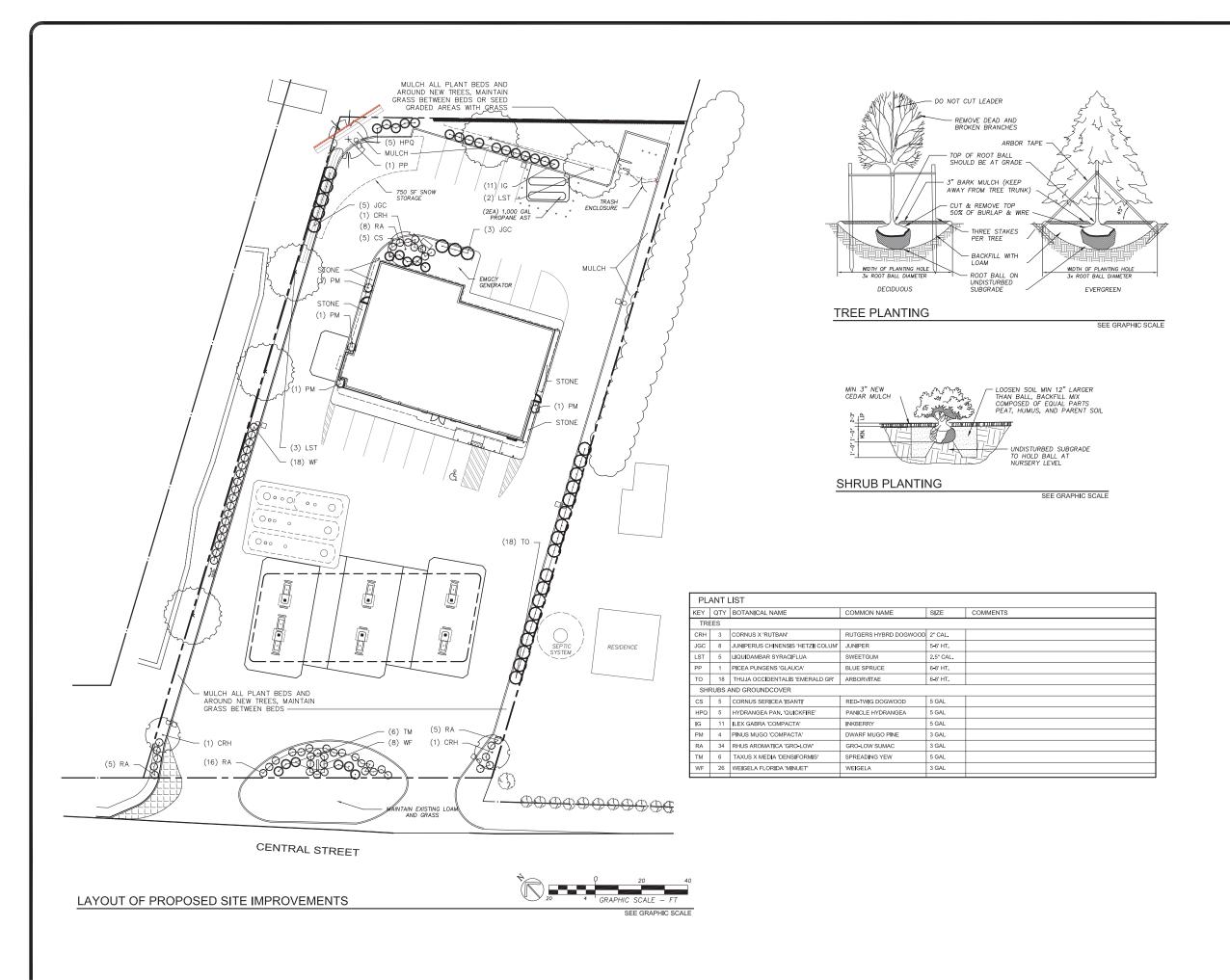


- 1. THE GENERAL PURPOSE OF THIS WORK IS TO REMOVE THE EXISTING NON-CONFORMING RESIDENTIAL USE AND IMPROVEMENTS AND CONSTRUCT A NEW ALLOWED USE GAS STATION AND CONVENIENCE STORE WITH
- NEW ALLOWED USE GAS STATION AND CONVENIENCE STOKE WITH DRIVE-THRU

 2. STORMWATER IMPACTS OF THE PROPOSED DEVELOPMENT HAVE BEEN MODELED IN HYDROCAD AND RUNOFF MITIGATION HAS BEEN DESIGNED AS INFLUENCED BY THAT MODELING TO REDUCE POST DEVELOPMENT RUNOFF BELOW PRE-DEVELOPMENT RATES AND VOLUMES. PLEASE REFER TO THE STORMWATER MANAGEMENT PLAN.
- THE LAYOUTS ON THIS SHEET ARE INCLUDED IN THE STORMWATER MANAGEMENT PLAN AND USED IN THE HYDROCAD MODEL



AS NOTED

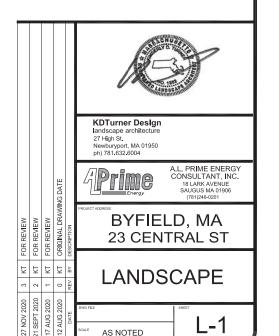


- THE LOCATION OF UG UTILITIES MUST BE VERIFIED IN THE FIELD PRIOR TO ANY EXCAVATION. VERIFY EXISTING AND PROPOSED UTILITY LOCATIONS IN THE FIELD AND VERIFY WITH PROJECT MANAGER PRIOR TO ANY EXCAVATION.

 ALL WORK TO BE DONE IN ACCORDANCE WITH ALL CONDITIONS OF
- 2. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL CONDITIONS OF APPROVAL AND ANY SITE PLAN REQUIREMENTS OF THE TOWN OF NEWBURY.
 3. VERIFY QUANTITIES SHOWN ON PLANT LIST. QUANTITIES SHOWN ON
- VERIFY QUANTITIES SHOWN ON PLANT LIST. QUANTITIES SHOWN OF LAYOUT PLAN GOVERN OVER THE PLANT LIST IN THE CASE OF ANY DISCREPANCY.
- ANY PLANT SUBSTITUTION MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.

 ALL TREES TO BE STAKED WITH THREE HARDWOOD STAKES, SEE
- ALL TREES TO BE STAKED WITH THREE HARDWOOD STAKES PLANTING DETAILS.
- ALL NEW LANDSCAPE AREAS WITHIN 3 FEET OF NEW PLANTINGS TO HAVE
 MIN 12 INCHES TOPSOIL NOT INCLUDING THAT SOIL WITH THE TREE OR
 SUPPLY BUT EAR ELLY DEPOT AND CONTROL OF THE PROPERTY.
- SHRUB PIT FOR FULL DEPTH OF ROOT BALL.

 ALL MULCH AREAS TO BE A MIN OF 3 INCHES DEPTH OF SHREDDED HARDWOOD BARK.
- AREAS AGAINST THE BUILDING WILL BE "MULCHED" WITH NON-FLAMMABLE LANDSCAPE STONE, COLOR AND TYPE TO BE APPROVED BY THE OWNER REPRESENTATIVE PRIOR TO PLACEMENT.
- DURING PLANTING, APPLY SOIL ADDITIVES AND SLOW RELEASE FERTILIZER AND WATER THOROUGHLY AT COMPLETION.



ō.0 ō.0 ō.0 ō.0 ō.1 ō.1 ō.1 ō.1 ō.0 ō.0 ō.0 ō.0
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1
 0.1</td
 0.1
 0.0
 0.0
 0.0
 ō.o ō.o ō.o ō.o ō.o
 0.3
 0.5
 0.1
 0.5
 0.3
 0.1
 0.1
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0
 0.0</td to 5.0 5.0 5.0 5.0 5.0 5.0 2.2 2.3 1.6 2.8 1.9 1.5 1.3 1.2 1.2 1.3 1.3 1.2 1.1 1.0 2.1 1.8 2.1 1.6 1.9 1.7 1.6 1.5 1.4 1.2 1.0 1.0 1.6 3.1 3.7 0 0 1 01 03 07 3.9 ⁴.5 **-**25 04 02 01 00 00 00 2.9 2.2 1.4 [†]4.2 L3 7310.675 9.37 897 35 7.1 L3 L4 L4 L4 L4 L4 0.2 †.4 [†]5.5 1 1 5.3 5.2 5.1 5.1 5.0 5.0 0.0 0.1 0.1 0.2 1.3 5.2 9.5 2.5 1.1 3.8 9.1 2.3 0.0 0.1 0.1 *8.3 *2.2 10 0.4 0.2 0.1 0.0 0.0 0.1 0.1 0.1 0.3 1.8 4.3 2.9
 3.3
 2.1
 1.7
 1.5
 1.3
 1.4
 1.5
 1.6
 1.8
 2.2
 2.3
 2.8
 3.8
 2 8 0.6 0.3 0.2 0.1 0.1 0.0 2.6 2.7 1.8 1.5 1.6 1.8 2.0 2.3 2.8 3.3 3.7 4.1 3.1 Ō.1 Ō.1 Ō.2 O.6 (1.5 ° 2.0 (2.2° 2.3 2.6 3.2 4.0 5.6 8.6 11.1 10.8 7.2 3.0
 0.6
 0.3
 0.2
 0.1
 0.1
 0.0
 1.60 0 02.3 0 3.2 4.4 t.1 t.2 t.3 6.8 10.3 12.8 ō.7 ō.3 \ ō.2 ō.1 ō.\ \circ 0.1 0.2 0.4 \\ 0.7 7.2 t.8 t.4 0.2 0.1 0.1 0.0 0.1 0.2 0.4 ō.9 ō.4 \overline{0.2} overline{0.1} 0.1 0.3 0.5 11.8 to the total transfer of the total transfer of the transfer of to 0.1 to 0.2 to 0.5 11.0 9.6 [†]7.7 [†]5.3 [†]2.6 5 0.8 0.3 0.2 0.1 0.1 0.0 0.1 0.2 0.3 2.8 6.3 8.1 7.8 5.6 3.9 3.0 2.6 2.3 2.3 2.3 2.6 3.2 2.0 0.4 0.2 0.1 0.1 0.0 0.0 2.4 3.0 2.9 2.4 2.0 1.7 1.5 1.3 1.4 1.7 2.1 2.9 70 to the first term of the first to to the total to the total to the total to the total total to the total tota \$\begin{pmatrix} \dot{2}.1 & \dot{0}.7 & \dot{0}.2 & \dot{0}.1 & \dot{0}.1 & \dot{0}.0 \end{pmatrix}\$ Ž.9 Ž.5 Ž.7 Ž.4 Ž.1 Ž.9 Ž.0 Ž.4 Ž.1 to to the total to the total to the total to the total total to the total tota <u>0.2</u> 0.2 0.2 0.2 0.1 0.1 0.1 0.0

1340 Kemper Meadow Dr. | Cincinnati, OH 45240 | 513-574-9500

14

L4

14

10

10 10

10

10 10

10 10

10

10 10

10

10 10

10

10

10 10 10

17

17

LUMINAIRE	LOCATION SL	JMMARY	LUM
LUM NO.	LABEL	MTG. HT.	LUM
1	C3	15	53
2	C3	15	54
3	C3	15	55
4	C3	15	56
5	C3	15	57
6	C3	15	58
7	C3	15	59
8	C3	15	60
9	C3	15	61
10	C3	15	62
11	C3	15	63
12	C3	15	64
13	C3	15	65
14	C3	15	66
15	C3	15	67
16	C3	15	68
17	C3	15	69
18	C3	15	70
19	C3		71
		15	→
20	C3	15	72
21	C3	15	73
22	C3	15	74
23	C3	15	75
24	C3	15	76
25	C3	15	77
26	C3	15	78
27	C3	15	79
28	C3	15	80
29	C3	15	81
30	C3	15	82
31	L3	10	83
32	L3	10	84
33	L3	10	85
34	L3	10	86
35	L3	10	87
36	L3	10	88
37	L3	10	89
38	L3	10	90
39	L4	10	91
40	L4	10	92
41	L4	10	93
42	L4	10	94
43	L4	10	95
44	L4	10	96
45	L4	10	97
46	L4	10	98
47	L4	10	99
48	L4	10	100
49	L4	10	100
50	L4	10	102
51	L4	10	102
52	L4	10	103
U <u>L</u>	L-4	10	104
			1 100

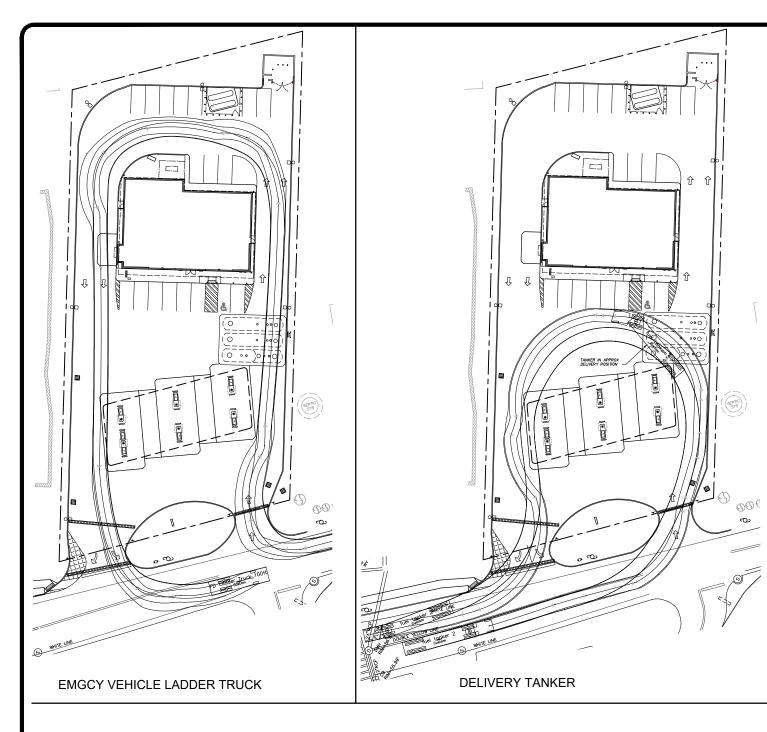
C3 C	15 15 15 15 15 15 15 15 15 15 15 15	66 67 68 69 70 71 72 73 74	L4 L
C3 C	15 15 15 15 15 15 15 15 15	68 69 70 71 72 73 74	L4 L4 L4 L4 L4 L4
C3	15 15 15 15 15 15 15	69 70 71 72 73 74	L4 L4 L4 L4 L4
C3 C3 C3 C3 C3 C3 C3 C3 C3	15 15 15 15 15 15	70 71 72 73 74	L4 L4 L4 L4
C3 C3 C3 C3 C3 C3	15 15 15 15 15	71 72 73 74	L4 L4 L4
C3 C3 C3 C3 C3	15 15 15 15	72 73 74	L4 L4
C3 C3 C3 C3	15 15 15	73 74	L4
C3 C3	15 15	74	L4
C3	15		_
C3		75	1.4
	15		L4
C3		76	L4
	15	77	L4
C3	15	78	L4
C3	15	79	L4
C3	15	80	L4
C3	15	81	L4
C3	15	82	L4
L3	10	83	L4
L3	10	84	L4
L3	10	85	L4
L3	10	86	L4
L3	10	87	L4
L3	10	88	L4
L3	10	89	L4
L3	10	90	L4
L4	10	91	L4
L4	10	92	L4
L4	10	93	L4
L4	10	94	L4
L4	10	95	L4
L4	10	96	L4
L4	10	97	L4
L4	10	98	L4
L4	10	99	Q
L4	10	100	Q
L4	10	101	Q4
L4	10	102	Q4
L4	10	103	Q4
L4	10	104	Q4
		105	Q4
	C3 C3 C3 C3 C3 C3 L3 L3 L3 L3 L3 L4	C3	C3

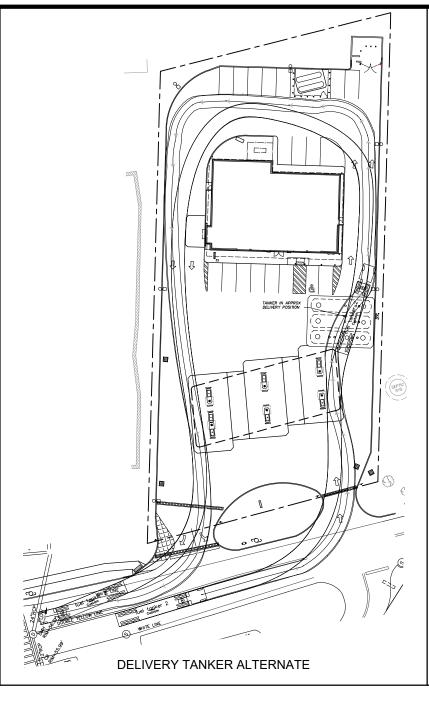
NOTE:
AREA LIGHTS ON NEW15 FT. POLES MOUNTED ON 2 FT. CONCRETE BASES

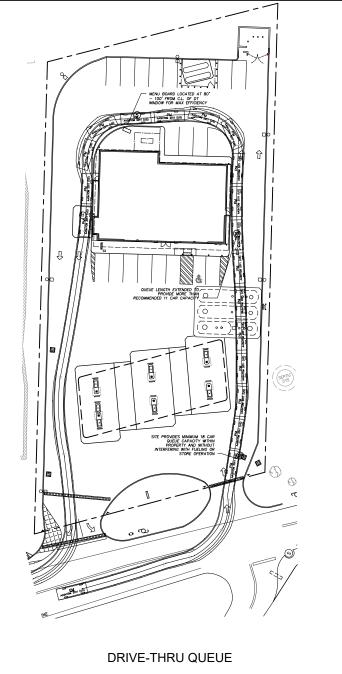
FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES								
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN			
CANOPY	50.71	81	21	2.41	3.86			
PAVED	3.59	13.6	0.8	4.49	17.00			
UNDEFINED	0.49	17.5	0.0	N.A.	N.A.			

LUMINAIRE SCHEDULE											
SYMBO	L	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	DESCRIPTION
	*	30	C3	SINGLE	8924	1.030	B3-U0-G1	92	2760	CREE, INC.	CAN-304-SL-XX-04-E-UL-XX-700-57K
		8	L3	3FT LINEAR	148	1.000	B0-U1-G0	2.9	139.2	MAXLITE INC.	LB3650
		60	L4	4FT LIGHTBAR	148	1.000	B0-U1-G0	2.9	1392	MAXLITE INC.	LB4850
	-	2	Q3	SINGLE	5551	1.030	B1-U0-G1	53	106	Cree Inc	OSQ-A-NM-3ME-Z-57K-UL-XX + OSQ-BLSMF
		5	Q4	SINGLE	5402	1.030	B1-U0-G1	53	265	Cree Inc	OSQ-A-NM-4ME-Z-57K-UL-XX + OSQ-BLSMF

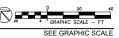
REV.	BY	DATE
R1	LMP	09/01/2020





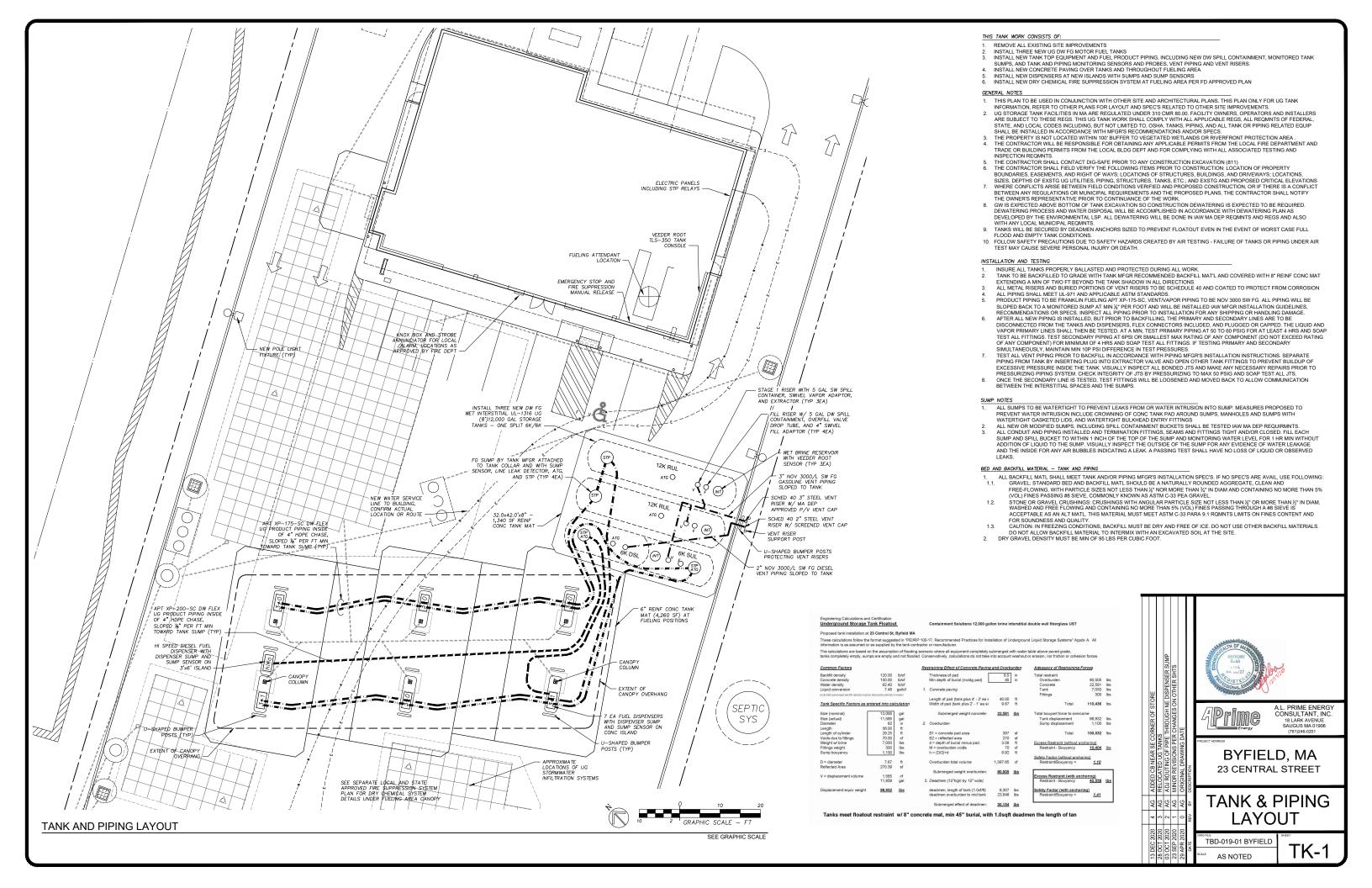


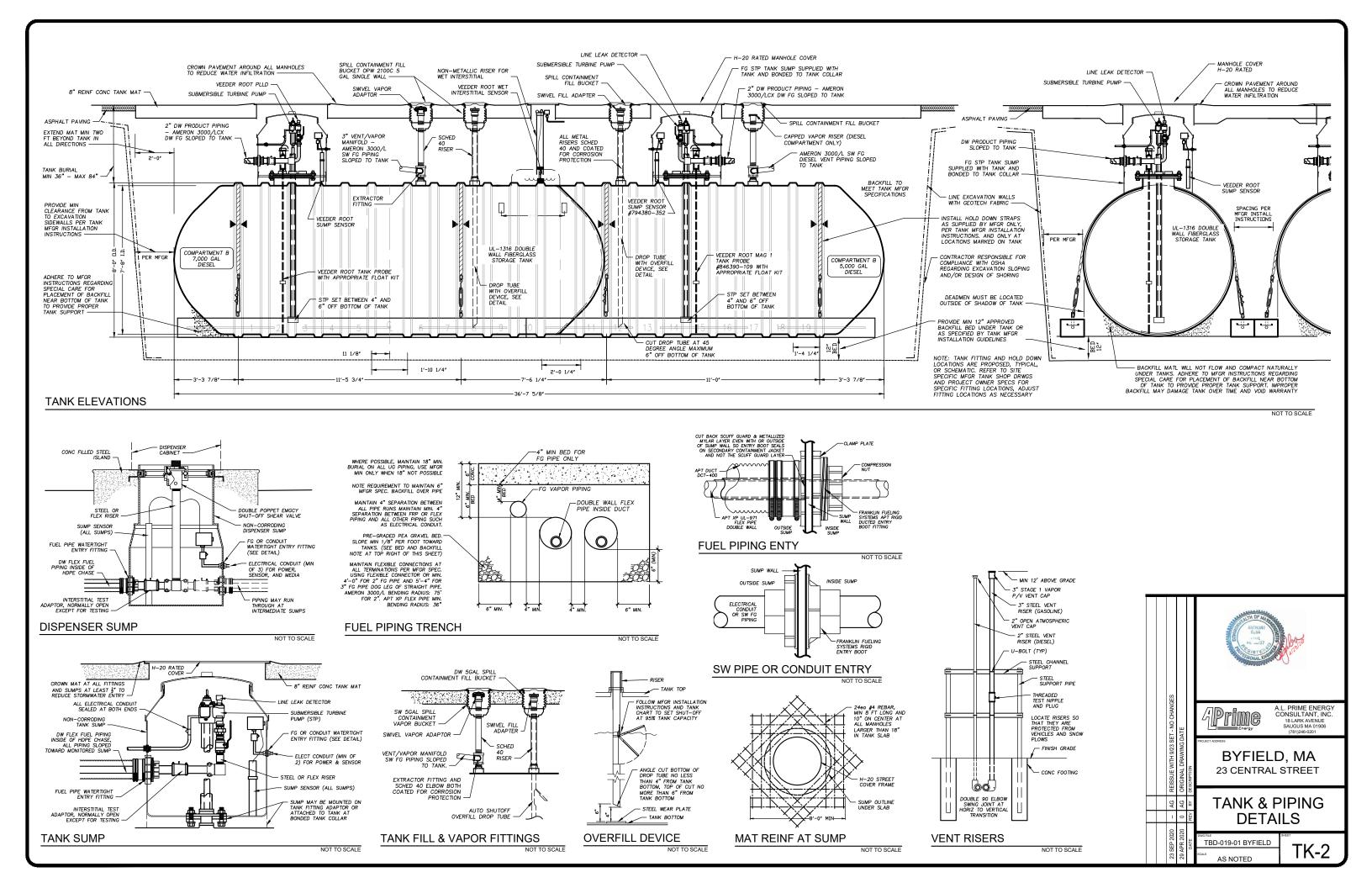
AUTOTURN SWEPT PATH ANALYSIS

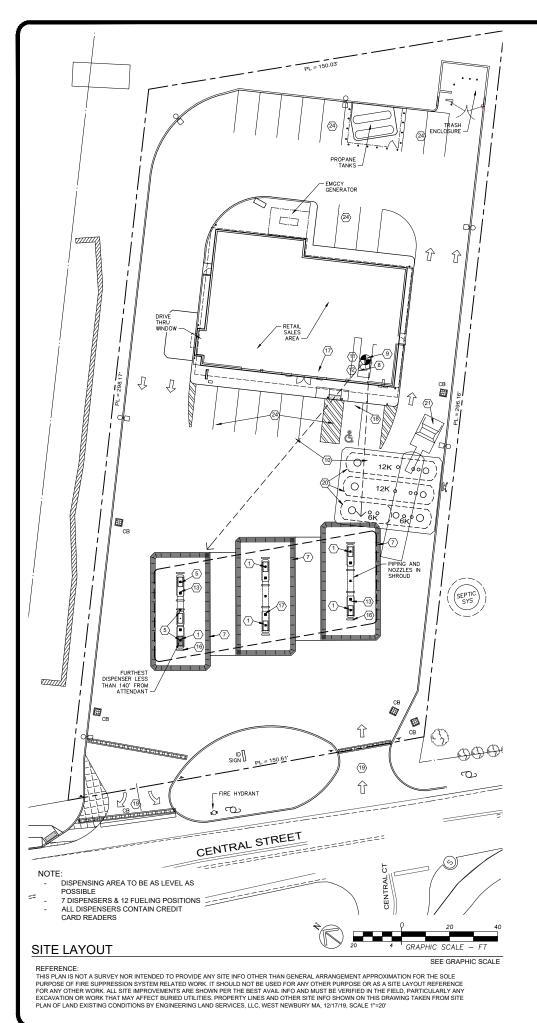


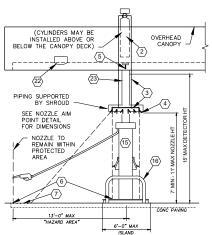


AS NOTED









ISLAND END ELEVATION

ISLAND SIDE ELEVATION - WEST ISLAND

NOT TO SCALE

(CYLINDERS MAY BE INSTALLED ABOVE OR BELOW THE CANOPY DECK)

(22)

LEGEND 1 MOTOR FUEL DISPENSER - U/L APPROVED - (CYLINDERS MAY BE INSTALLED ABOVE OR BELOW THE CANOPY DECK) 2 DRY CHEMICAL CYLINDER (3) OH FSS PIPING - SCHED 40 (DIST & SUPPLY) $\langle 4 \rangle$ UL LISTED SYSTEM NOZZLE (5) 225 (MAX) DEGREE AUTO THERMOSTAT 6 NOZZLE AIMING POINT PLB - POSITIVE LIMITING BARRIER GROOVES 8 CONTROL CONSOLE EQUIPMENT 9 SELF-SERVICE ATTENDANT LOCATION PIPING SUPPORTED BY SHROUD $\langle \overline{10} \rangle$ ATTENDANT SIGHT LINES (11) DISPENSER EMGCY SHUTDOWN SWITCH SEE NOZZLE AIM 12 MANUAL SYSTEM RELEASE SWITCH (13) CCTV CAMERA (AT EA DISPENSER) (14) INTERCOM SPEAKER (AT EA DISPENSER (15) MA FIRE MARSHAL APPROVED SIGNAGE (16) SAFETY BUMPER OR BOLLARD HAND OPERATED 40BC HI FLOW EXTINGUISHEI (18) GLASS DOOR OR WINDOW FOR SIGHT LINE CONC PAVING (19) DRIVEWAY

ISLAND SIDE ELEVATION - MIDDLE AND EAST ISLANDS

NOT TO SCALE

COPY

A MONITORED BUILDING FIRE ALARM PANEL WILL BE INSTALLED AND THIS FIRE SUPPRESSION SYSTEM WILL BE ADDED TO THE PANEL AS A SEPARATE ZONE

GENERAL NOTES

REFER TO THE MOST CURRENT MASS DEPT OF FIRE SVCS DIV OF FIRE SAFETY "GUIDELINES FOR SELF-SERVICE MOTOR FUEL FACILITY GUIDELINES", 527 CMR 1.00 FIRE REGS, NFPA 17, & THE SYS MFGR UL LISTING, SYS MANUALS, & LOCAL AND STATE APPROVALS FOR THIS

NOT TO SCALE

- ALL MA SELF SERVICE DISPENSING AREAS OPEN TO THE PUBLIC SHALL BE EQUIPPED WITH A LISTED UL-1254 COMPLIANT PRE-ENGINEERED DRY CHEMICAL EXTINGUISHING SYSTEM, INCLUDING END OF ISLAND PROTECTION; AND DESIGNED & INSTALLED TO PROTECT THE ENTIRE SPILL & HAZARD AREA

 $\langle 20 \rangle$ UG MOTOR FUEL STORAGE TANK

23 COLUMN OR LIGHT POLE

24 PARKING SPACES

21) FUEL TRANSPORT AT DROP POSITION 22 LIGHTING WITHIN FUELING AREA

- STATE REQUIRED PLAN STATEMENTS:
 SELF-SERVE EXTINGUISHING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH
 STATE FIRE MARSHAL APPROVED PLANS.
- ALL EXTINGUISHING SYSTEMS, DISPOSING SYSTEMS, AND CONTROL EQUIPMENT SHALL BE UNDERWRITERS LABORATORY (UL) LISTED.

 CREDIT CARD READING DEVICES ARE PROPOSED AT THIS LOCATION AND ARE SUBJECT TO STOCK AND ACCOUNT OF THE PROP
- 3.3. TO 527 CMR 1.00 SECTION 42.7.4.5 (1)(K):

 EA SALE SHALL BE INDIVIDUALLY AUTHORIZED BY THE SELF-SERVICE ATTENDANT
- 331 EA SALE SHALL DE INDIVIDUALLY AUTHORIZED BY THE SELF-SERVICE ATTENDANT THE AUTOMATIC CREDIT CARD READING DEVICE SHALL NOT BE USED AS PHYSICAL AUTHORIZATION FOR THE DISPENSING OF MOTOR FUEL THE AUTOMATIC CREDIT CARD READING DEVISES ARE INCLUDED ON PLANS 3.3.3
- SUBMITTED TO AND APPROVED BY THE STATE FIRE MARSHAL (SEE NOTES AND LEGEND)
 FAILURE TO CONSTRUCT, INSTALL, OR MAINTAIN ANY EQUIPMENT, DEVICES, SYSTEM,
- OR PROCEDURE INDICATED ON THE APPROVED PLANS SHALL BE CAUSE FOR THE REVOCATION OF THIS APPROVAL
- PLANS APPROVED BY THE MARSHAL ARE ON THE CONDITION THAT THEY COMPLY IN ALL RESPECTS TO 527 CMR 1.00. ANY OMISSIONS OR ERRORS ON THE PLANS DO NOT RELIEVE THE APPLICANT OR INSTALLER FROM COMPLYING WITH ALL APPLICABLE REQUIREMENTS OF 527 CMR 1.00.
 STATE FIRE MARSHAL APPROVAL OF PLANS TO CONSTRUCT/RENOVATE A
- SELF-SERVICE FACILITY BECOMES NULL AND VOID ONE YEAR FROM THE DATE OF THE
- ALL FIRE SUPPRESSION SYSTEMS SHALL BE INSTALLED & MAINTAINED BY COMPANIES & PERSONS HOLDING REQ'D CERTIFICATES OF COMPETENCY & REGISTRATION ISSUED BY THE MARSHAI
- FIRE SUPPRESSION SYS SHALL BE INSTALLED & MAINTAINED IN ACCORDANCE WITH THE
- PROVISIONS OF NFPA 17 (SEE $\underline{527}$ CMR $\underline{1.00}$ CH $\underline{2}$ FOR CURRENT EDITION), AND THE MFGR'S INSTALLATION & MAINTENANCE MANUAL. CLOSED CIRCUIT TY (CCTY) COVERAGE IS REQUIRED ON ALL FUELING POSITIONS. CCTV MONITORS SHALL DISPLAY ALL CAMERA ANGLES SIMULTANEOUSLY ON THE SCREEN WITH A MIN FRAME OF 5" BY 6.5" PER CAMERA, CCTV SHALL DISPLAY IMAGES IN COLOR.
- AN INTERCOM SYS IS REQ'D BETWEEN THE CONTROL CONSOLE AND DISPENSING ISLAND. THE CONTROL CONSOLE WILL BE LOCATED IN DIRECT LINE OF SIGHT AND WITHIN 200 FEET OF THE MOST REMOTE DISPENSER. DISTANCES GREATER THAN 200 FT MAY BE APPROVED AT SOLE DISCRETION OF THE STATE FIRE MARSHAL.

- ON PARTIAL (SPLIT SERVICE) SELF-SERVICE FACILITIES AN ADDITIONAL SWITCH, WHICH WILL DISCONNECT POWER TO THE SELF-SERVE ISLAND AND ACTIVATE THE SUPPRESSION SYS SHALL BE INSTALLED ON THE FULL SERVE ISLAND.
- BE INSTALLED ON THE FULL SERVE ISLAND.

 WARNING SIGNS SHALL BE CONSPICUOUSLY POSTED ON BOTH ENDS OF THE DISPENSER AND SHALL INCORPORATE STATE REQD LANGUAGE (SEE SIGN DETAIL)

 THE CONCRETE PAD SURROUNDING THE DISPENSING ISLAND SHALL BE INSTALLED AS LEVEL AS POSSIBLE. THE POSITIVE LIMITING BARRIER (PLB)(GROOVES) SHALL BE INSTALLED IN THIS PAD WITH OUTER GROOVE LOCATED NO FURTHER THAN THE PROTECTED HAZARD AREA DEFINED BY THE FIRE SUPPRESSION SYSTEM DESIGN. NOZZLES SHALL NOT EXTEND BEYOND THE PLB AT THE AVERAGE FUELING HEIGHT OF 3 TO 4 FEET.

 A MEANS TO INSTANTLY DISCONNECT THE POWER TO ALL DISPENSERS AND ACTIVATE THE SUPPRESSION SYSTEM DESIGNED (CONTROLL).
- SUPPRESSION SYS SHALL BE CONSPICUOUSLY MARKED AND LOCATED AT THE CONTROL
- THE USE OF AUTOMATIC CREDIT READING DEVICES ARE PERMITTED PROVIDED THAT THEY ARE INDICATED ON THE PLANS & COMPLY WITH THE REQMNTS OF 527 CMR 1.00 SECTION 42.7.4.5(1)(k).
- 225° (MAX) ELECTRIC THERMOSTAT DETECTORS SHALL BE INSTALLED ON 15 FOOT (MAX) CENTERS IN A SINGLE LINE OVER THE CENTER OF THE ISLAND FOR ISLANDS UP TO 6 FT WIDE. FOR WIDER ISLANDS 2 ROWS OF DETECTORS SHALL BE LOCATED 1 FT IN FROM EA CURB. IF A CANOPY IS PROVIDED DETECTORS SHALL BE LOCATED ON THE UNDERSIDE OF THE CANOPY. IF THERE IS NO CANOPY, THE DETECTOR(S) SHALL BE MOUNTED TO THE UNDERSIDE OF AN 118"x18"x2" HEAT COLLECTOR, WHICH SHALL BE LOCATED NO HIGHER THAN THE NOZZLES.
 FIRE EXTINGUISHERS SHALL BE A MINIMUM 40BC HIGH FLOW.
 RAISING OR LOWERING OF AN EXSTG SUPPRESSION SYS OR TEMP RELOCATION OF CONTROL
- CONSOLE MAY BE COMPLETED ONLY AFTER WRITTEN NOTIFICATION TO AND WRITTEN
- CONSOLE MAY BE COMPLETED ONLY AFTER WRITTEN NOTIFICATION TO AND WRITTEN ACKNOWLEDGEMENT FROM THE HEAD OF THE LOCAL FD AND STATE FIRE MARSHAL OFFICE. CHANGING HEAT DETECTORS TO THOSE SPECIFIED IN CURRENT GUIDELINES, OR REPLACING DISPENSING NOZZLES WITH "HOLD OPEN" NOZZLES SHALL NOT REQUIRE NOTICE OR APPROVAL FROM STATE FIRE MARSHAL OFFICE.
- A COMPLETE RESUBMITTAL IN ACCORDANCE WITH THEN CURRENT SELF-SERVICE GUIDELINES IS REQUIRED IN THE FOLLOWING CASES:

 1. REPLACEMENT OF THE FIRE SUPPRESSION SYSTEM

- 1. REPLACEMENT OF THE FIRE SUPPRESSION SYSTEM
 2. CHANGE IN METHOD OF DISPENSING (I.E. CHANGING FROM SPD TO MPD DISPENSERS)
 3. REPLACEMENT OR RECONSTRUCTION OF THE DISPENSING ISLAND
 4. MATERIAL CHANGE IN ENVIRONMENTAL CONDITIONS OR HAZARD AREA (I.E. CHANGE THAT IMPACTS ATTENDANT ABILITY TO OBSERVE THE FUELING OPERATION)
 THE CONTRACTOR SHALL VISIT THE SITE AND BE RESPONSIBLE FOR FIELD CONFIRMATION OF ALL ITEMS ON THE PLAN AND SHALL NOTIFY THE DESIGNER IN WRITING OF ANY DISCREPANCY BEFORE PROCEEDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE ENTIRE SYSTEM AND SHALL COMPLY WITH THE REGULATIONS SET FORTH BY THE PREVAIL INSTALLATION OF AND THE GRUIPMENT MANIFEAT INFORMS SECTIONS. PREVAILING MASSACHUSETTS CODE AND THE EQUIPMENT MANUFACTURER SPECIFICATIONS

NARRATIVE:

THE PURPOSE OF THIS WORK IS TO INSTALL A DRY CHEMICAL FIRE SUPPRESSION SYSTEM MEETING UL-1254 AT THIS NEW-TO-INDUSTRY SELF-SERVICE RETAIL MOTOR FUEL STATION. IN ADDITION TO THE FUELING ISLANDS, THE ATTENDANT MAY MONITOR A CONVENIENCE STORE WITH APPROX 1,600 SF OF RETAIL AREA, PROPOSED TO BE OPERATED BY OTHERS THAN THE MOTOR FUEL SELF SERVICE ATTENDANT IS A COFFEE MENU DRIVE-THRU FOOD OPERATION.

PLBs (POSITIVE LIMITING BARRIERS) WILL BE INSTALLED AS WELL AS CAMERAS AT EACH DISPENSER AND SIGNAGE TO MEET STATE FIRE MARSHAL GUIDELINE REQUIREMENTS. ALL EQUIPMENT WILL BE INSTALLED PER THE PRE-ENGINEERED DESIGN MANUAL FROM THE SYSTEM MANUFACTURER.

THE SYSTEM WILL PROVIDE BOTH AUTOMATIC AND MANUAL ACTIVATION SWITCHES. THERE WILL BE HI TEMP SENSORS INSTALLED IN THE FUEL DISPENSING AREAS. SYSTEM OPERATION IS PER THE PRE-ENGINEERED DESIGN BY THE MANUFACTURER, PYRO-CHEM. REFER TO MANUFACTURER DESIGN MANUAL FOR TECHNICAL SPECIFICATIONS AND GENERAL SYSTEM

NEW TO INDUSTRY SELF SERVICE FACILITY

ATTENDANT 1 SYSTEM MFGRD BY PYRO CHEM, INC. MODEL ATD-35/75 -- MEETS UL-1254

SYSTEM INSTALLER - TO BE DETERMINED INSTALLER MA CERT OF COMPETENCY NUMBER

INSTALLER MA CERT OF REGISTRATION NUMBER -

PROTECTED AREA - (3 EA) SYSTEMS EACH PROTECTING 24' x 48.5' NUMBER OF <u>75# CYLINDERS</u> - 3ea x 4 per sys = TOTAL OF <u>12ea 75# CYLINDERS</u> NUMBER OF 35# CYLINDERS - 3ea x 1 per sys = TOTAL OF 3ea 35# CYLINDERS NUMBER OF FIRE SUPP NOZZLES - 8ea x 12(75#) + 4ea x 3(35#) = 108ea TOTAL NOZZLES NUMBER OF HI TEMP HEAT DETECTORS - 3ea x 3 per sys = 9ea TOTAL HEAT DETECTORS

THIS BOX RESERVED FOR LOCAL FIRE DEPARTMENT OFFICE USE

CHIEF OF THE DEPARTMENT OR HIS DESIGNEE, HAVE REVIEWED THE ATTACHED INFORMATION AND HAVE ACKNOWLEDGEMENT THEREOF:

THIS BOX RESERVED FOR LOCAL FIRE DEPARTMENT L

HIS BOX RESERVED FOR STATE FIRE MARSHAL OFFICE USE ONLY

AG AG

THIS BOX RESERVED FOR STATE FIRE MARSHAL OFFICE USE ON



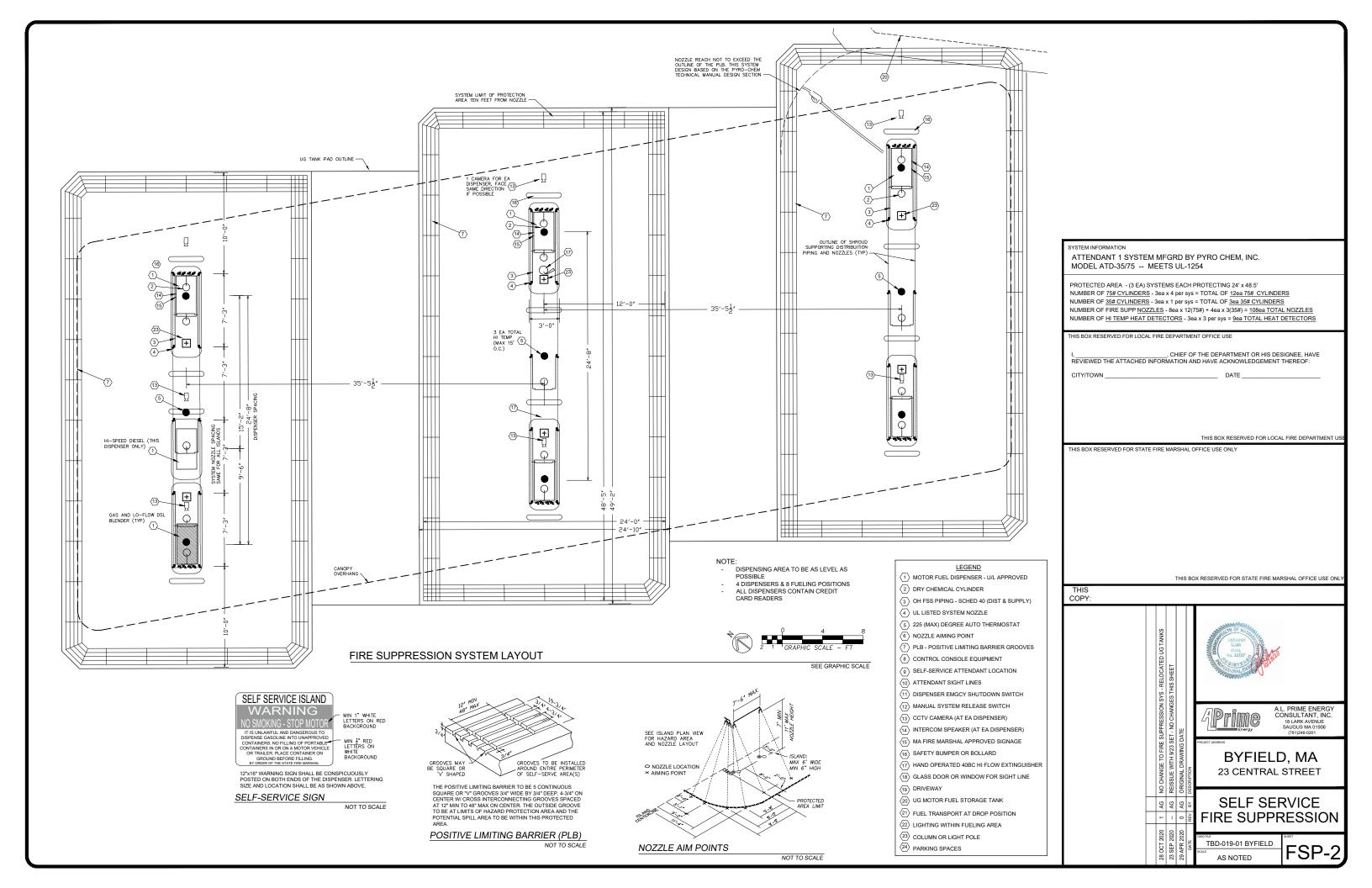
CONSULTANT INC. SAUGUS MA 01906

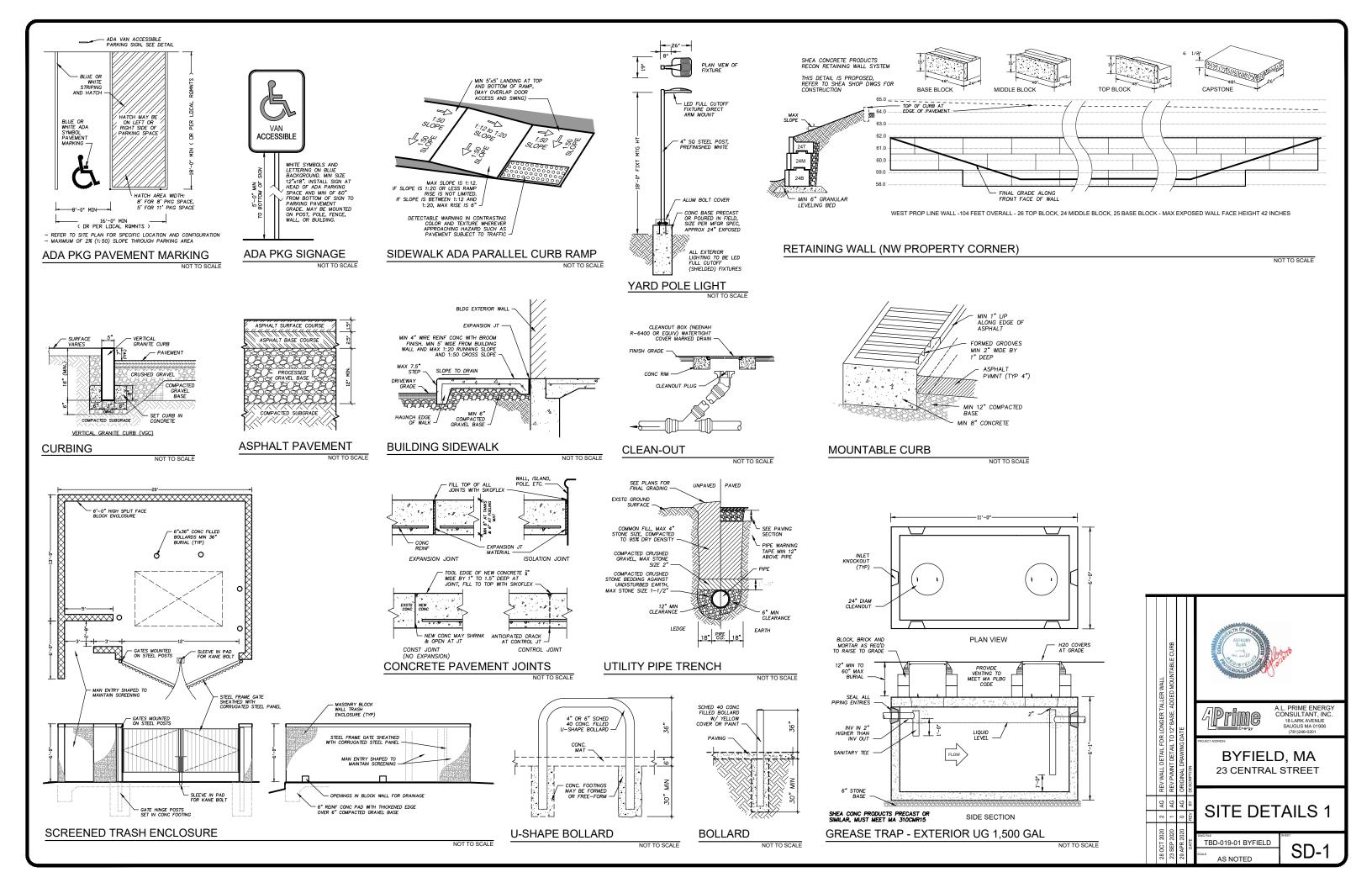
BYFIELD. MA 23 CENTRAL STREET

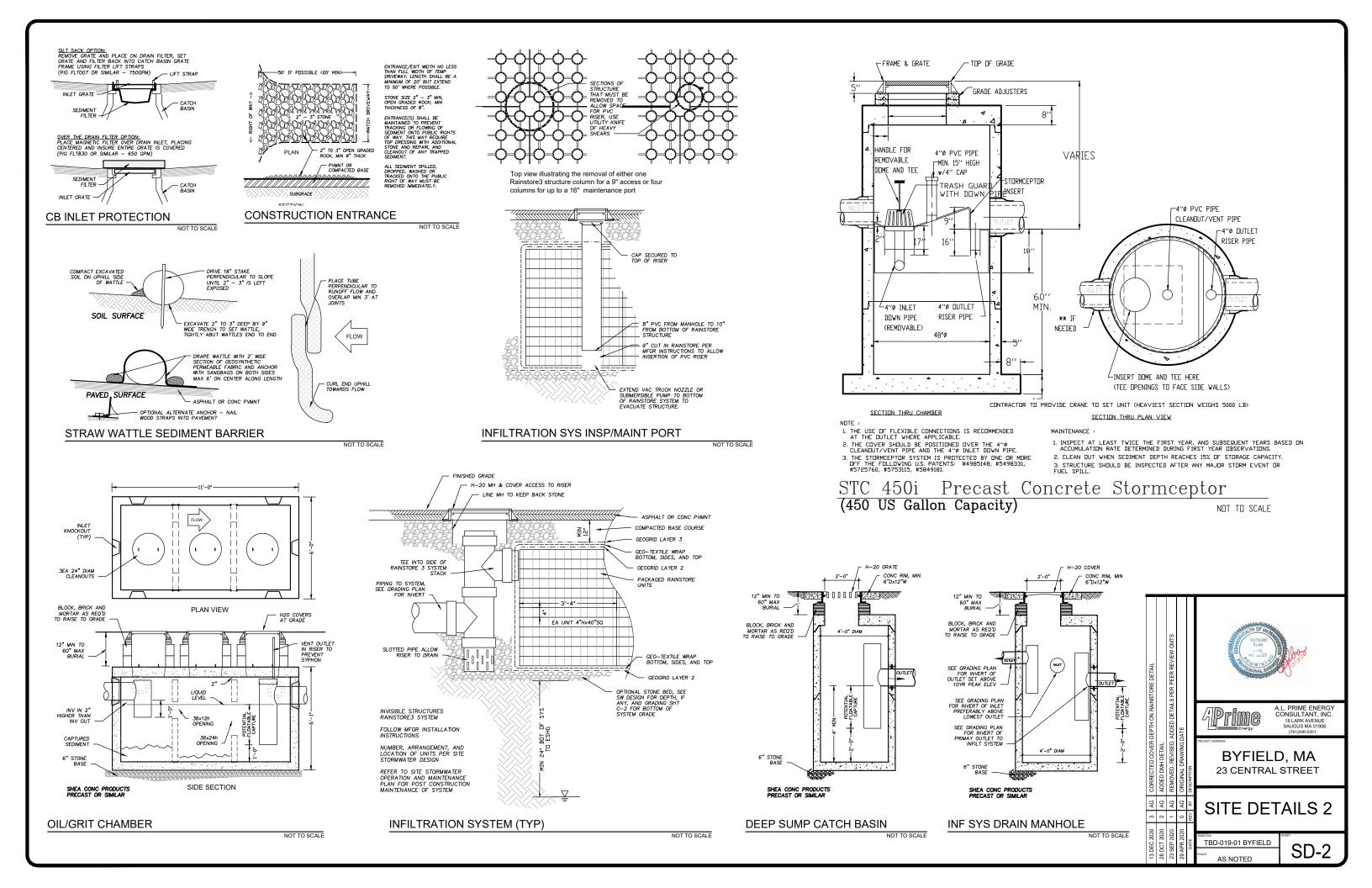
SELF SERVICE FIRE SUPPRESSION

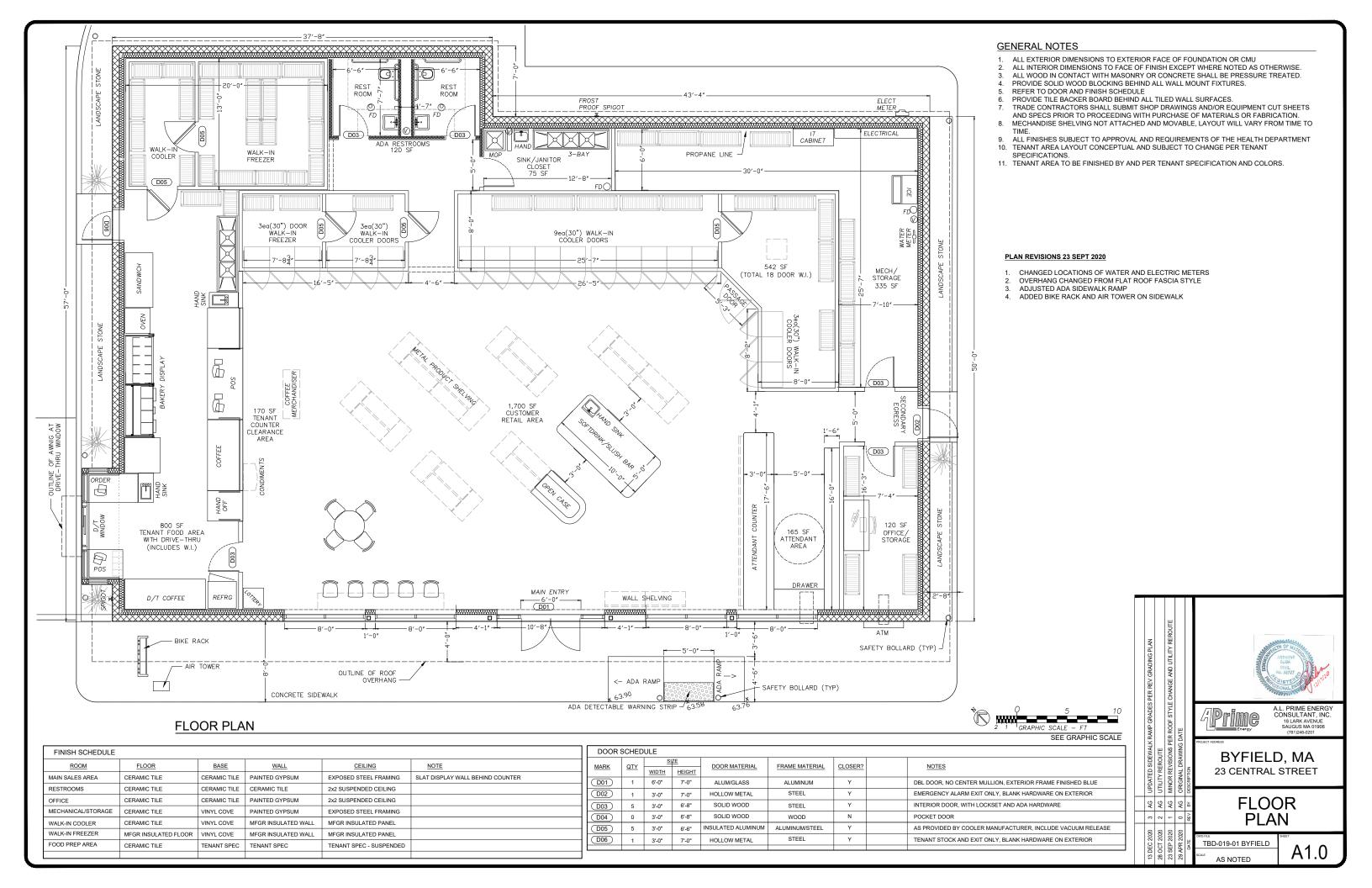
TBD-019-01 BYFIELD

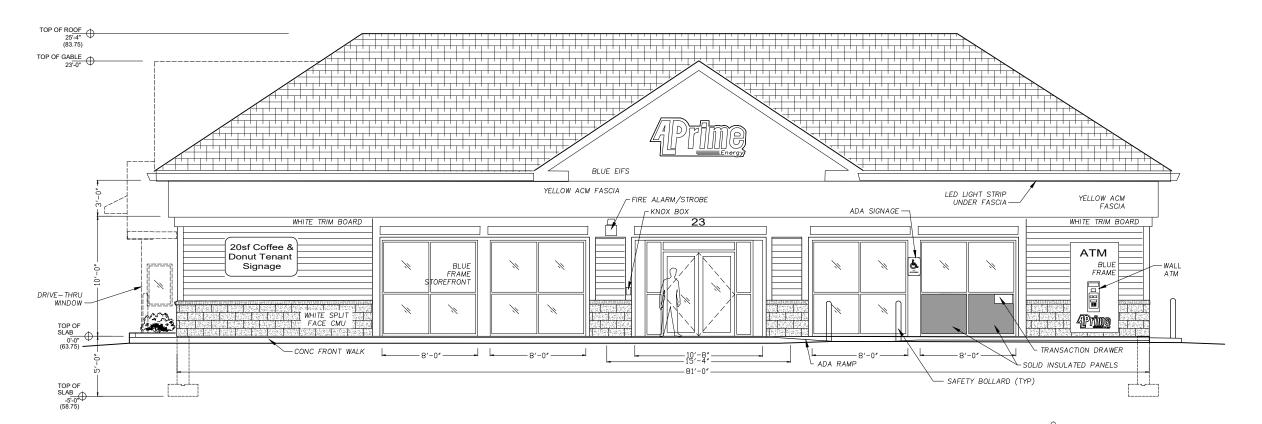
FSP-











SEE GRAPHIC SCALE

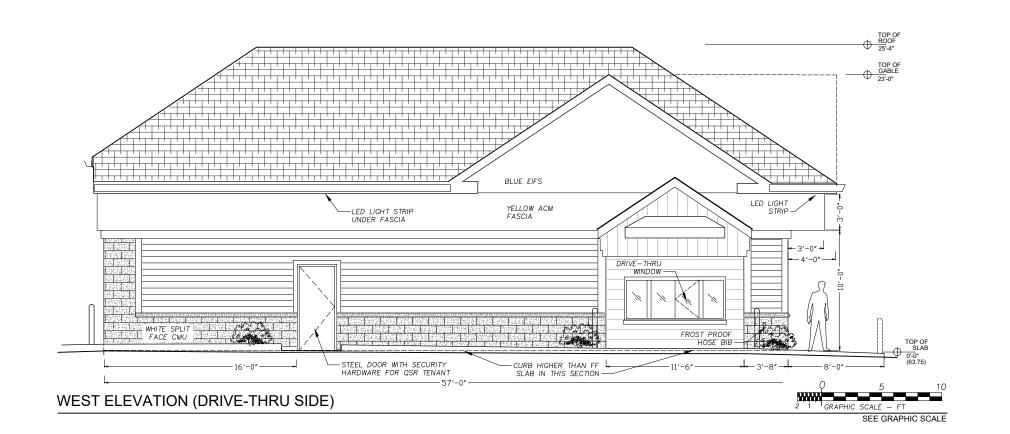
- PROPOSED BUILDING IS A SINGLE STORY SLAB ON GRADE MASONRY AND WOOD FRAME BUILDING.
 2. SIGNAGE SHOWN ON THIS SHEET AND SG-1 SIGN AND GRAPHICS
- SHEET ARE PROPOSED, IT IS INTENDED TO PERMIT SIGNAGE SEPARATELY AS ALLOWED BY RIGHT. PETITIONER IS NOT SEEKING VARIANCE OR WAIVER FOR SIGNAGE AS PART OF SITE PLAN OR SPECIAL PERMIT APPROVAL.

 3. ALL DIMENSIONS TO FACE OF FINISH EXCEPT WHERE NOTED AS
- OTHERWISE.

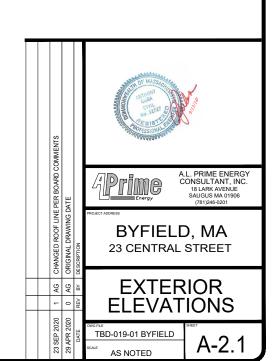
 4. CONFIRM MOUNTING HEIGHT OF TRANSACTION DRAWER AND ATM

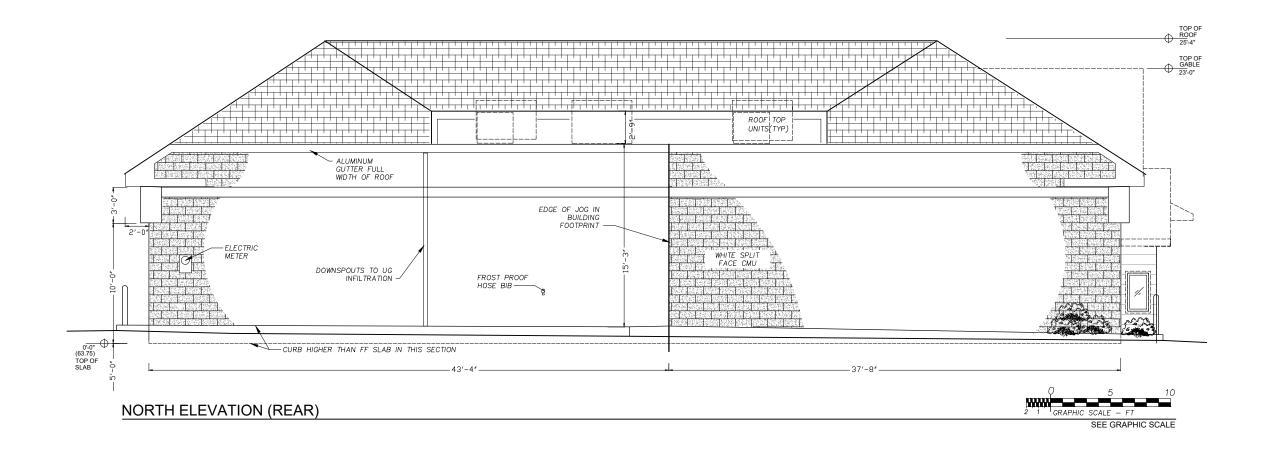
- 4. CONFIRM MOUNTING HEIGHT OF TRANSACTION DRAWER AND ATM
 FOR PROPER ADA ACCESSIBILITY.
 5. LOCATION OF KNOX BOX AND EXTERNAL FIRE ALARM/STROBE
 SUBJECT TO FINAL LOCATION APPROVAL BY FIRE DEPARTMENT.
 6. TRADE CONTRACTORS INCLUDING STOREFRONT FABRICATOR SHALL
 SUBMIT SHOP DRAWINGS AND/OR EQUIPMENT CUT SHEETS AND SPECS PRIOR TO PROCEEDING WITH PURCHASE OF MATERIALS OR FABRICATION.
- 7. ALUMINUM STOREFRONT PRE-FINISHED BLUE ALUMINUM FRAMES (SEE A.L. PRIME SPECIFICATION) WITH ONE INCH INSULATED GLASS, TEMPERED AS REQ'D BY CODE. BOTTOM PANELS AT COUNTER TO BE
- OPAQUE OR SOLID INSULATED PANEL.

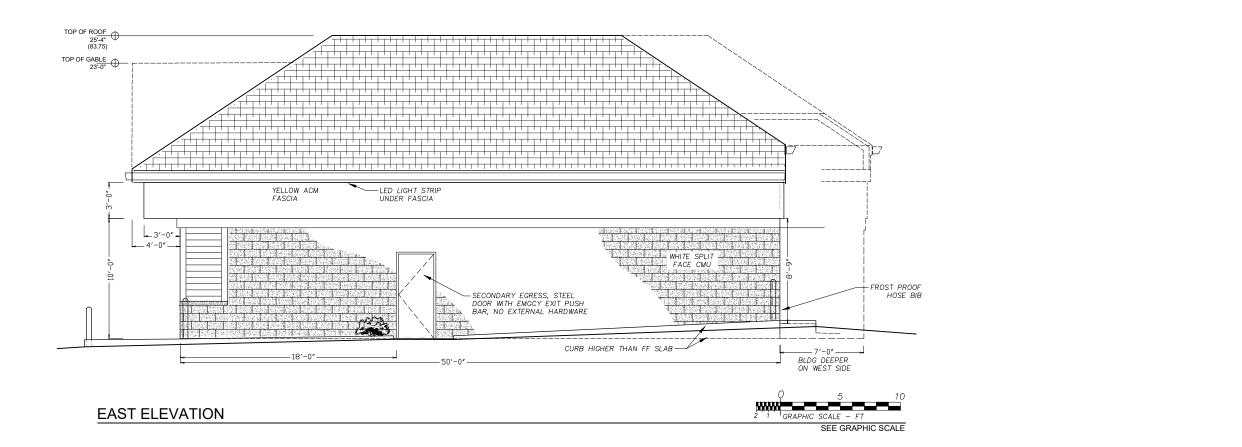
 8. SIZE, SHAPE, AND FINISH OF DRIVE-THRU BUILDING BUMP-OUT TO BE ADJUSTED PER TENANT CORPORATE IMAGE AND COLORS.
 TENANT DRIVE-THRU WINDOW AWNING STYLE, HEIGHT, SIZE AND
- COLOR ARE CONCEPTUAL ONLY AND TO BE ADJUSTED PER TENANT SPECIFICATIONS

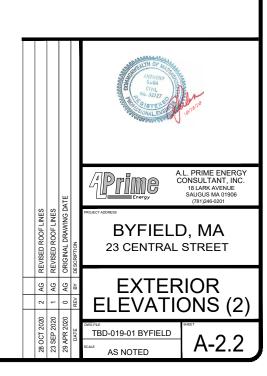


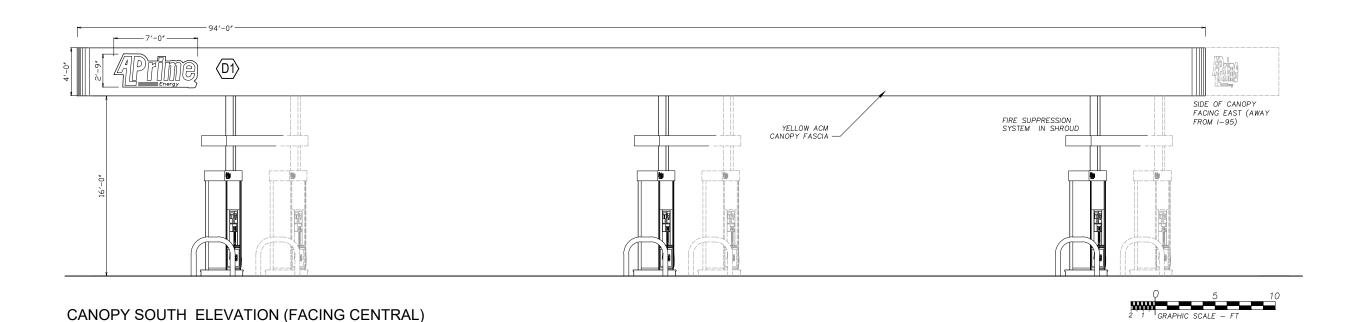
SOUTH ELEVATION (FRONT)

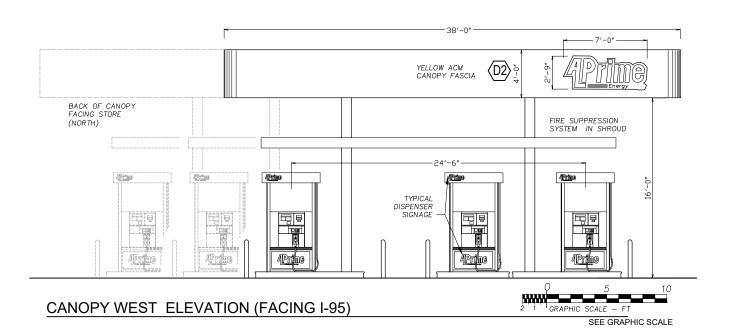












DO NOT REFER TO THIS PLAN FOR CONSTRUCTION LAYOUT OR PURPOSES. THIS PLAN IS ONLY FOR BOARD REVIEW AND APPROVAL AND DOES NOT CONTAIN ADEQUATE INFORMATION FOR CONSTRUCTION.

SEE GRAPHIC SCALE

- REFER TO CANOPY MANUFACTURER STAMPED STRUCTURAL DRAWINGS, INCLUDING FOOTING
- DETAILS FOR ALL COLUMN AND FOOTING LAYOUT.

 REFER TO TK-1 TANK AND PIPING PLAN FOR ISLAND AND DISPENSER SUMP LAYOUT.

 REFER TO LOCAL AND STATE FIRE APPROVED FIRE SUPPRESSION PLAN FOR SHROUD AND FIRE SUPPRESSION SYSTEM PIPING LAYOUT
- REFER TO BUILDING DEPARTMENT APPROVED SIGN PLAN FOR LAYOUT OF ANY APPROVED SIGNAGE. SIGNAGE SHOWN IS PROPOSED AND WILL BE APPROVED SEPARATELY AS ALLOWED BY
- 6. REFER TO LIGHTING PLAN AND OWNER SPECIFICATIONS REGARDING NUMBER AND LOCATION OF LIGHTING FIXTURES TO BE INSTALLED INTO CANOPY DECK.

