# **ABBREVIATIONS**

ABANDONED

APPROXIMATE

ADJUST

ASPHALT

ASBESTOS CEMENT PIPE

ACCESSIBLE CURB RAMP

ABAN

ACP

ACR

ADJ

APPROX

ASPH

BLDG BIT CONC

E/T/C EW

SB/DH SGE SMH STA SS

TRANS

TS

TSV

TYP

UP

VCP

VERT

VGC

w

WG

WATER GATE

REMOD RET

CB/DH CB/EPLP CCB

ACCMP

# LEGEND

## Existing

× 100.50

100.50

100.50

## Proposed

× 100.50	
100.50	
100.00	
100.50	
$\searrow$	
৸ড়৸	
M	
<b>(W)</b>	
©	
E	

÷

 $\bigcirc$ 

 $(\mathbb{S})$ 

Descriptior	7
-------------	---

SPOT ELEVATIONS
TOP & BOTTOM ELEVATIONS
SPOT ELEVATIONS WITH LEADER
HYDRANT
WATER GATE VALVE
WELL
GAS GATE
ELECTRIC HANDHOLE
LIGHT POLE
UTILITY POLE
GUY POLE
GUY ANCHOR
DRAIN MANHOLE
SEWER MANHOLE
CATCH BASIN
DOUBLE CATCH BASIN
TEST PIT
BORING
SIGN SINGLE POST
GRANITE OR CONCRETE BOUND
WETLAND FLAG
EXISTING BUILDING

	PROPOSED BUILDING
_	MAJOR CONTOUR
_	MINOR CONTOUR
_	CHAINLINK FENCE
_	CABLE TV LINE
_	ELECTRIC, TELEPHONE, CABLE TV DUCTBANK
_	UNDERGROUND ELECTRIC
_	OVERHEAD ELECTRIC
_	NATURAL GAS LINE
_	SANITARY SEWER MAIN
_	DRAIN PIPE
_	TELEPHONE LINE
_	WATER MAIN
_	FIRE PROTECTION LINE
	RETAINING WALL TREELINE
	HAYBALE & SILT FENCE
	LIMIT BORDERING VEGETATED WETLAND RESOURCE
	100' WETLAND BUFFER ZONE

DRAIN MANHOLE		₩ I
ELECTRIC EXTRUDED CONCRETE CURB	0	<del>.</del> 0-
ELEVATION		•
ELECTRIC MANHOLE		•
ELECTRIC, TELEPHONE, & CABLE TV		•
END WALL EXISTING	///////////////////////////////////////	
FIRE ALARM BOX		
FLARED END SECTION		
FOUND		
FRAME AND COVER FRAME AND GRATE		
GAS		
GROUND		
GAS GATE GALVANIZED IRON PIPE	X	X
GUARD POST		
GAS SERVICE	CTV	CTV
GUARD RAIL	<i>E/T/C</i>	E/T/C
GRANITE HIGH-DENSITY POLYETHYLENE PIPE	UGE	UGE
HANDHOLE		
HORIZONTAL	OHE	OHE
HIGH PRESSURE	GAS	GAS
HEADWALL HYDRANT	S	\$
INVERT	3	
IRON PIN	D	D
IRON ROD LEAD		
LEAD LANDSCAPED AREA	<i>T</i>	<i>T</i>
LIGHT POLE	<i>W</i>	<i>W</i>
MAXIMUM		FP
METAL COVER MONOLITHIC CONCRETE CURB		FP
MANHOLE		
MASS. HIGHWAY BOUND	$\cdots$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
METAL LIGHT POLE NOT IN CONTRACT		
NOT TO SCALE		
OVERHEAD WIRE		
PULL BOX POLYETHYLENE PIPE		
PROPERTY LINE		
PROPOSED		
POLYVINYL CHLORIDE PIPE		
PAVEMENT PAVED WATER WAY		
REINFORCED CONCRETE PIPE		A
REMOVE		
REMODEL RETAIN	ROUTE AA	
RIGHT OF WAY		
RAILROAD		
REMOVE AND RESET REMOVE AND STACK		
SEWER		
STONE BOUND		
STONE BOUND/DRILL HOLE		
SLOPED GRANITE EDGING		
SEWER MANHOLE STATION	STORE STORE	$\lambda / \lambda z$
SEWER SERVICE	INC I	
STEEL	S.	
SIDEWALK TELEPHONE		
TRAFFIC CONTROL BOX	STRATE ST. EXT.	HIGH ST.
TRAFFIC LIGHT		HIGH
TELEPHONE MANHOLE		ort
TREE TRANSFORMER		AUTUMN LN.
TOP OF SLOPE	<u>[</u>	
TAPPING SLEEVE, VALVE AND BOX		LOCUS MAP
TYPICAL UTILITY POLE		NOT TO SCALE
VITRIFIED CLAY PIPE VERTICAL		
VITRIFIED CLAY PIPE		

ACCMP B	ASPHALT COATED CORRUGATED METAL PIPE
BD	BOLLARD BOUND
BLDG CONC	BUILDING BITUMINOUS CONCRETE
BM	BITUMINOUS CONCRETE BENCHMARK
BS CAP	BOTTOM OF SLOPE CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
	CUT AND CAPPED
CB/DH /EPLP	CONC. BOUND/DRILL HOLE CB/ESCUTCHEON
CCB	CAPE COD BERM
CIP CIT	CAST IRON PIPE CHANGE IN TYPE
Ę	CENTERLINE
CLF CO	CHAIN LINK FENCE CLEAN OUT
CONC	CONCRETE
COND CMP	CONDUIT
CPP	CORRUGATED METAL PIPE CORRUGATED POLYETHYLENE PIPE
CS CSMH	COMBINED SEWER
CULV	COMBINED SEWER MANHOLE CULVERT
$\Delta$ D	DELTA ANGLE
DCB	DRAIN DOUBLE CATCH BASIN
DIP	DUCTILE IRON PIPE
DMH E	DRAIN MANHOLE ELECTRIC
ECC	EXTRUDED CONCRETE CURB
ELEV EMH	ELEVATION ELECTRIC MANHOLE
E/T/C	ELECTRIC, TELEPHONE, & CABLE TV
EW EXIST	END WALL EXISTING
FAB	FIRE ALARM BOX
FES FND.	FLARED END SECTION FOUND
FND	FOUNDATION
F&C F&G	FRAME AND COVER FRAME AND GRATE -
G	GAS
GD GG	GROUND – GAS GATE
GIP	GALVANIZED IRON PIPE
GP GS	GUARD POST
GR	GUARD RAIL —
GRAN. HDPE	GRANITE HIGH-DENSITY POLYETHYLENE PIPE
нн	HANDHOLE
HOR HP	HORIZONTAL
HWL	HEADWALL
HYD INV	HYDRANT
I.P. I.R.	IRON PIN
L	LEAD —
LSA LP	LANDSCAPED AREA LIGHT POLE
MAX	MAXIMUM
MC MCC	METAL COVER MONOLITHIC CONCRETE CURB
MH	MANHOLE
MHB MIN	MASS. HIGHWAY BOUND 🛰 MINIMUM
MLP	METAL LIGHT POLE
NIC NTS	NOT IN CONTRACT NOT TO SCALE
OHW	OVERHEAD WIRE
PB PE	PULL BOX POLYETHYLENE PIPE
Р	PROPERTY LINE
PROP PVC	PROPOSED POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
PWW RCP	PAVED WATER WAY REINFORCED CONCRETE PIPE
REM	REMOVE
REMOD RET	REMODEL RETAIN
ROW	RIGHT OF WAY
RR R&R	RAILROAD REMOVE AND RESET
R&S	REMOVE AND STACK
S SB	SEWER STONE BOUND
SB/DH	STONE BOUND/DRILL HOLE
SGE SMH	SLOPED GRANÎTE EDGING SEWER MANHOLE
STA	STATION
SS STL	SEWER SERVICE STEEL
SW	SIDEWALK
T TCB	TELEPHONE TRAFFIC CONTROL BOX
TL	TRAFFIC LIGHT TELEPHONE MANHOLE
TMH Tr	TREE

		<u>GENERAL NOTES</u> <u>CARVER: ASSESSOR'S MAP 32, LOT 1–5</u> LOCUS OWNER: PDRD 110		Drawing No.	Index: Drawing Title
		RPBP, LLC 3 MARION DRIVE CARVER, MASSACHUSETTS 02330		G-1	LEGEND, ABE
	1.	DEED BOOK REFERENCE: PLYMOUTH COUNTY REGISTRY OF DEEDS BOOK 50438, PAGE 270		EX-1	EXISTING CON
		BOOK 51637, PAGE 211 PLAN BOOK 63, PAGE 848		C-1	SITE LAYOUT
	2.	LOCUS IS SHOWN ON THE TOWN OF CARVER'S ASSESSOR'S MAP 32 AS LOT 1-5, TOTAL AREA = $62,067 \pm$ S.F. (1.42 AC)		C-2	GRADING ANI
ER	3.	LOCUS IS LOCATED WITHIN THE TOWN OF CARVER'S WATER RESOURCE PROTECTION DISTRICT.		C-3	UTILITY PLAN
	4.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.		ESC-1	EROSION AND
	5.	THE CONTRACTOR SHALL PROVIDE INLET PROTECTION, SUCH AS SILT SACKS, AT ALL CATCH BASINS TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER INFILTRATION		LA-1	LANDSCAPIN
		BASINS. INLET PROTECTION WILL ALLOW THE STORM DRAIN INLETS TO BE USED BEFORE FINAL STABILIZATION.		T-1	TRUCK TURNI
	6.	ALL EXISTING CONDITIONS INFORMATION, INCLUDING PERIMETER AND TOPOGRAPHIC INFORMATION WAS PREPARED FROM AN ON THE GROUND FIELD SURVEY PERFORMED BY MCKENZIE ENGINEERING GROUP, INC. IN FEBRUARY OF 2018, MAY AND AUGUST 2022, AND MARCH 2023.		D-1 - D-4	CONSTRUCTIO
	7.	BORDERING VEGETATED WETLANDS DELINEATED BY ENVIRONMENTAL CONSULTING & RESTORATION, LLC. ON FEBRUARY 6, 2018. DELINEATED BY METHODOLOGY ESTABLISHED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (MASS DEP) REGULATIONS FOUND AT 310 CMR 10.55. AN ORAD APPROVING THE LIMIT OF BORDERING VEGETATED WETLAND WAS ISSUED BY THE TOWN OF CARVER CONSERVATION COMMISSION		YMPT	ON
	8.	ON JULY 9, 2018 (DEP FILE NO. SE 126-0566). THE PROPERTY SHOWN HEREON IS LOCATED IN THE TOWN OF CARVER SPRING STREET INNOVATION ZONING DISTRICT PER ZONING MAP DATED 2016.	PL	YMFT	D
	9.	UTILITY INFORMATION FROM ABOVE GROUND OBSERVED EVIDENCE IN CONJUNCTION WITH DIG SAFE MARKINGS AND RECORD PLANS. THE LAND SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE LAND SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION AND CONSTRUCTION AS THE LAND SURVEYOR HAS NOT		CARVE	
۱D		PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. BEFORE CONSTRUCTION CALL DIG SAFE SYSTEMS, INC. AT 1-888-344-7233. ANY CHANGE IN THE FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER TO ENSURE THAT ANY MODIFICATIONS TO THE ORIGINAL DESIGN ARE PROPER AND ADEQUATE TO SERVE THE PROJECT'S NEEDS, AND COMPLY WITH THE APPLICABLE STANDARDS AND REGULATION. LOCUS FALLS WITHIN ZONE X AS SHOWN ON F.I.R.M. PANEL NO: 25023C0334K DATED JULY		ROUTE	* / `
	12. 13.	6, 2021. ALL ELEVATIONS SHOWN REFER TO NAVD 1988 DATUM. NO MUNICIPAL WATER SERVICE IS LOCATED ON SPRING STREET. THE PROPOSED BUILDINGS WILL USE PRIVATE WELLS THAT WILL BE APPROVED AND INSTALLED PER THE TOWN OF CARVER BOARD OF HEALTH REGULATIONS. SEE PLANS ENTITLED "DEFINITIVE SUBDIVISION PLANS, RICKETTS POND BUSINESS PARK, SPRING STREET, CARVER, MASSACHUSETTS" PREPARED BY MEG DATED JANUARY 10, 2019	4	0	LOT 2B RMERLY APN 32 2,754 S.F. (1.44 (ALL UPLAND)
	1.	AND REVISED APRIL 2, 2019 FOR EXISTING AND PROPOSED SITE CONDITIONS FOR THE SUBDIVISION. <u>GENERAL UTILITY NOTES</u> THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL	STATU (FC	LOT 2 PRMERLY APN 2,851 S.F. ( (ALL UPL)	2 32-1-2)
		EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN. THE CONTRACTOR SHALL COORDINATE ALL STREET WORK WITH THE CARVER DPW. ALL WATER SERVICES SHALL BE INSTALLED WITH 5' OF COVER EXCEPT AS NOTED OR			
	4.	DETAILED OTHERWISE. ALL POTABLE WELL WATER SERVICE APPURTENANCES, MATERIALS, METHODS OF	$\mathbf{n}$		
	5.	INSTALLATION SHALL MEET OR EXCEED ALL LOCAL MUNICIPAL REQUIREMENTS. AFTER PRESSURE TESTING AND CHLORINATION IS COMPLETED, SAMPLES SHALL BE TAKEN FROM THE WATER SERVICE AND SHALL BE TESTED AT 200 PSI FOR A MINIMUM OF 2 HOURS. THE CONTRACTOR IS REQUIRED TO NOTIFY THE CARVER DEPARTMENT OF PUBLIC WORKS AT LEAST 24 HOURS PRIOR TO THE TESTING.	(FORME	LOT RLY APN'S 3 176,222 S.F (ALL UI	32-1-1 & 32-1
	6.	THE LOCATIONS OF PROPOSED ELECTRIC, TELEPHONE AND COMMUNICATION (E.T.C.) SERVICES ARE APPROXIMATE. THE PROJECT ELECTRICAL ENGINEER SHALL VERIFY THESE LOCATIONS PRIOR TO THE START OF CONSTRUCTION. COORDINATE ALL E.T.C. WORK WITH THE APPROPRIATE UTILITY COMPANIES.			
	7.	ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH CARVER DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.	$\backslash$	<b>`</b>	
	1	WAIVERS REQUESTED FROM THE TOWN OF CARVER ZONING BY-LAW EFFECTIVE SEC 3341 PARKING LOT DESIGN:	<u>APRIL 2020</u>	$\backslash$	
	1.	REQUIRED: "TO THE EXTENT FEASIBLE, REQUIRED PARKING AREAS SHALL NOT BE LOCATED			
		FORWARD OF ANY BUILDING FRONT LINE ON THE LOT. NOTWITHSTANDING THE ABOVE, ANY DISTR	RICT		

FORWARD OF ANY BUILDING FRONT LINE ON THE LOT. NOTWITHSTANDING THE ABOVE, ANY DISTRICT EXCEPT FOR RA, V AND PTCD, THE PLANNING BOARD MAY GRANT PERMISSION IN THE COURSE OF SITE PLAN REVIEW TO LOCATE NOT MORE THAN EIGHT (8) PARKING SPACES IN FRONT OF THE PRINCIPAL BUILDING, WHERE SUCH LOCATION PROMOTES A BETTER SITE LAYOUT .... " PROVIDED: 17 PARKING SPACES ARE PROVIDED IN BUILDING FRONT LINE.

2. SEC 3130.G. SUBMITTAL REQUIREMENTS:

REQUIRED: "EXISTING TREES 10" CALIPER OR BETTER AND EXISTING TREE/SHRUB MASSES PROPOSED PLANTING, LANDSCAPING AND SCREENING;" PROVIDED: DUE TO THE SIZE OF THE PROPOSED DEVELOPMENT, SPECIFIC LOCATIONS OF EXISTING TREES 10" CALIPER OR GREATER ARE NOT INCLUDED. OUR SUBMISSION WILL SHOW THE EXISTING TREELINE AS SURVEYED BY MCKENZIE ENGINEERING GROUP, INC.

3. SEC 3345 PARKING LOT DESIGN:

REQUIRED: "FOR PARKING AREAS OF FIFTEEN (15) OR MORE SPACES, BICYCLE RACKS FACILITATING LOCKING SHALL BE PROVIDED TO ACCOMMODATE ONE BICYCLE PER FIVE (5) PARKING SPACES .... " PROVIDED: BICYCLE PARKING SPACES ARE NOT PROVIDED BY THIS SUBMISSION.

SPRING

The second secon

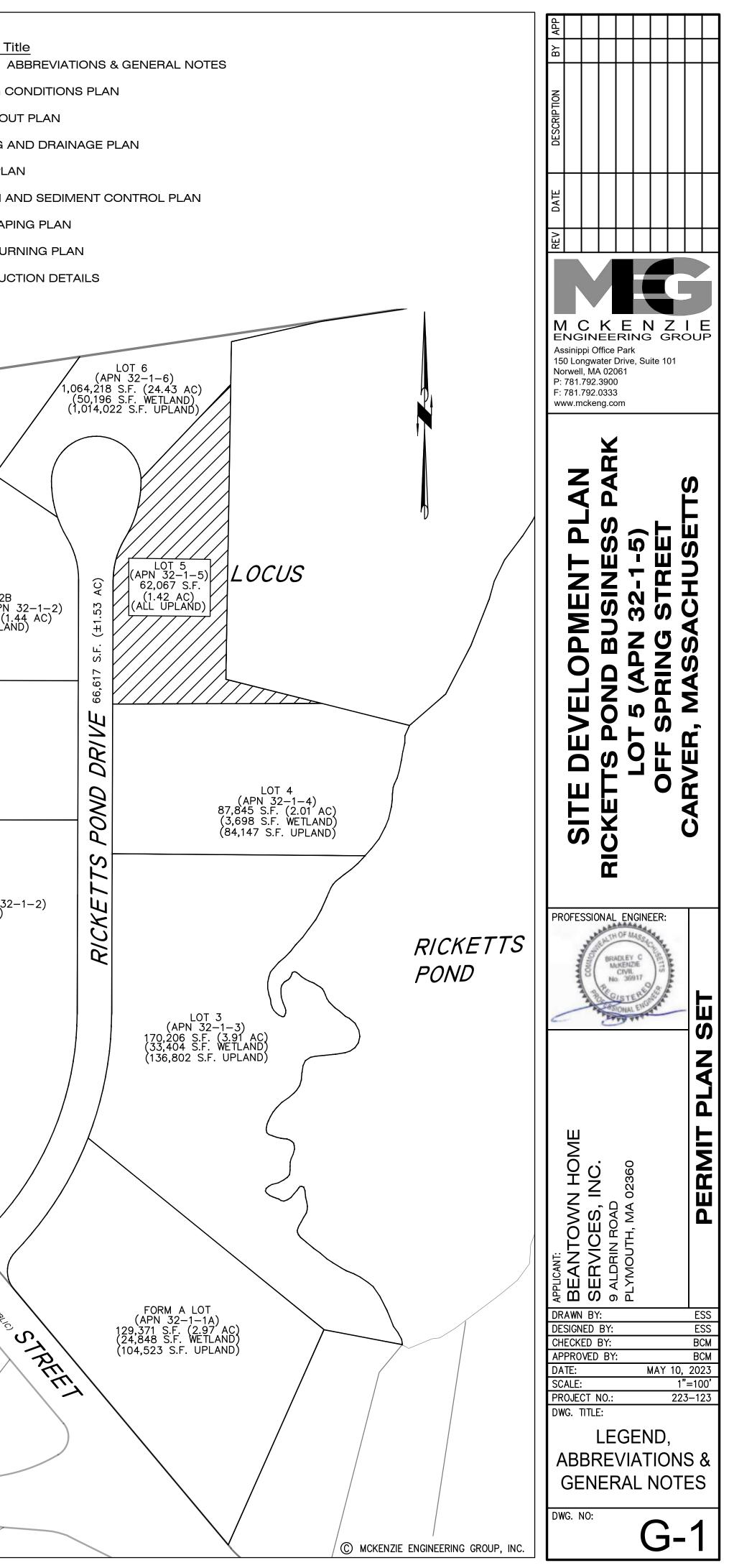
SPRING

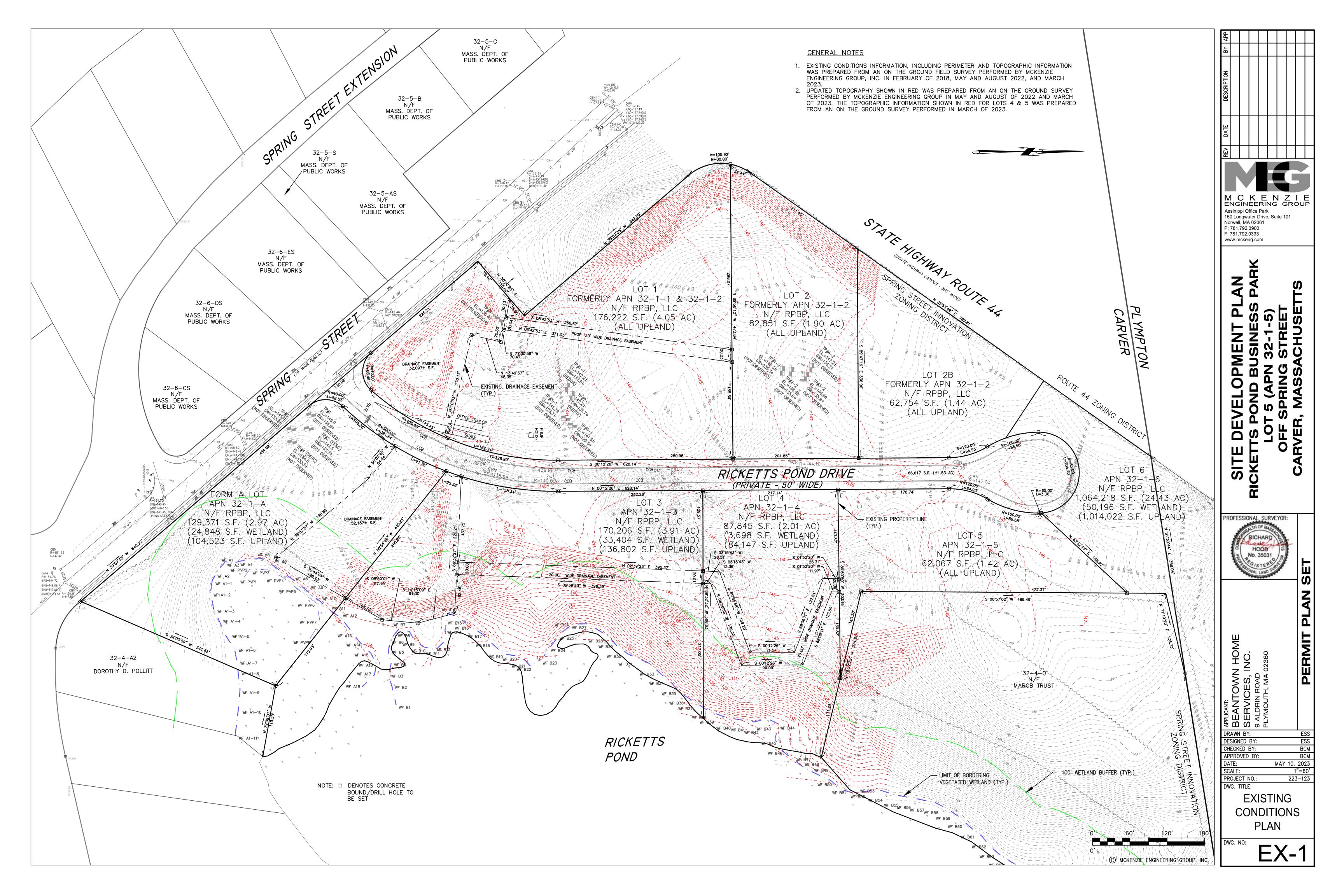
STREET

4. SEC 3242 PARKING LOT PERIMETER LANDSCAPING:

REQUIRED: BUFFER STRIP OF 25 FT. LOCATED ALONG THE PERIMETER OF AT LEAST THREE SIDES OF THE PARKING AREA.

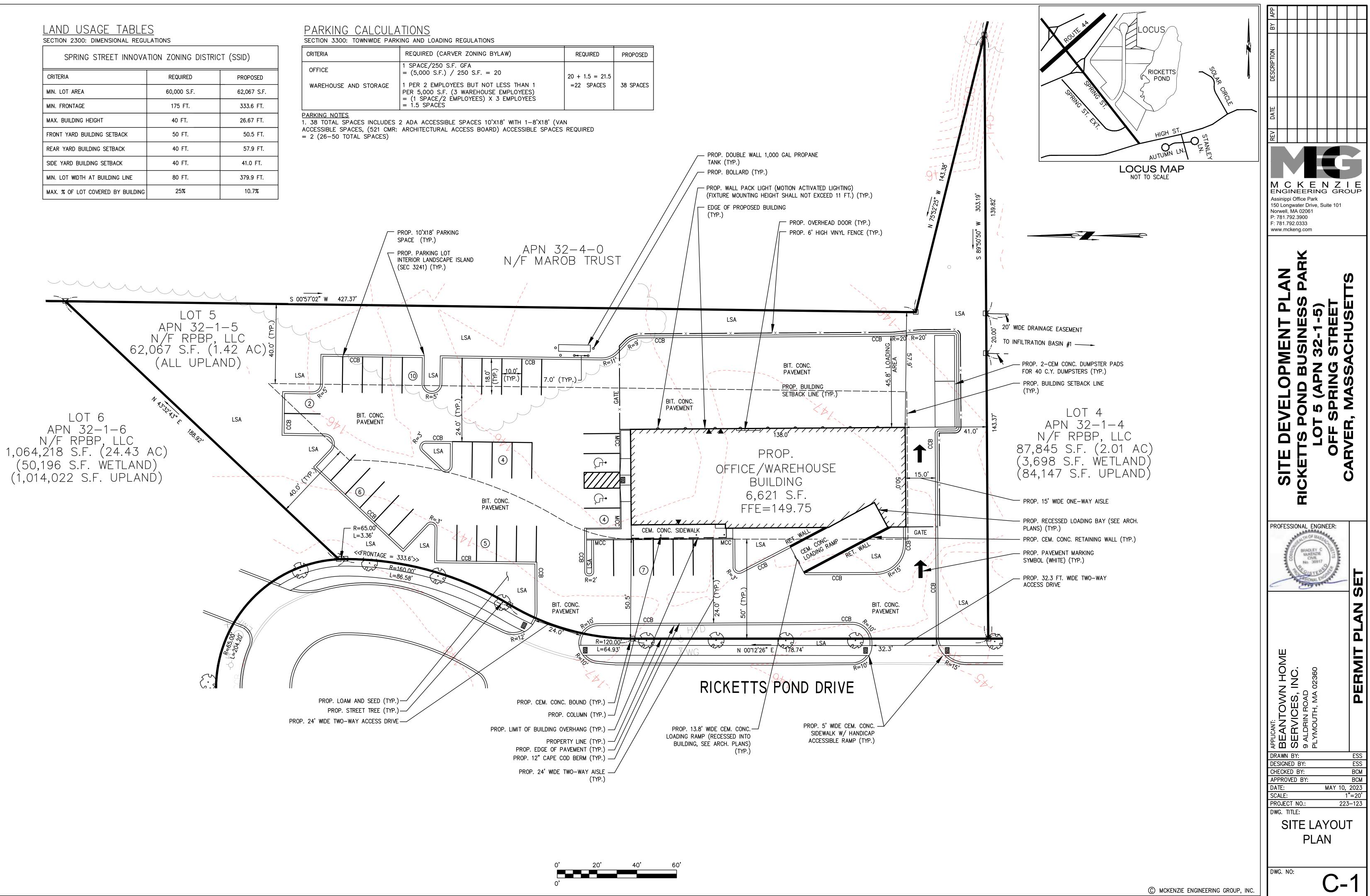
PROVIDED: A LANDSCAPE BUFFER EXCEEDING 25 FT. IS LOCATED BETWEEN THE NORTHERN SIDE PROPERTY LINE AND THE PROPOSED PARKING AREA. A LANDSCAPE BUFFER OF 25 FT. IS LOCATED BETWEEN THE SOUTHERN SIDE PROPERTY LINE AND THE ONE-WAY DRIVING AISLE, IN THE AREA OF DUMPSTER PADS A LANDSCAPE BUFFER OF 14 FT. IS PROVIDED. THE DUMPSTER PADS HAVE BEEN SITUATED ADJACENT TO THE LOADING AREA IN ORDER TO BE UTILIZED BY THE WORK VEHICLES PRIOR TO LEAVING FOR THE WORK DAY. A LANDSCAPE BUFFER OF 25 FT. IS PROVIDED BETWEEN THE REAR PROPERTY LINE AND PROPOSED PARKING STALLS. A LANDSCAPE BUFFER OF 7 FT. IS PROVIDED ALONG THE FRONT PROPERTY LINE. A 10 FT. MINIMUM LANDSCAPE BUFFER IS LOCATED BETWEEN THE REAR PROPERTY LINE AND THE PROPOSED LOADING AREA. THE LANDSCAPE PLAN PROPOSES 62 TREES AND 24 SHRUBS TO SCREEN THE PARKING AREA FROM ABUTTING PARCELS. THE SITE IS LOCATED AT THE END OF THE RICKETTS POND BUSINESS PARK SUBDIVISION AND IS SITUATED IN THE TOWN OF CARVER'S SPRING STREET INNOVATION ZONING DISTRICT, THE SITE IS NOT VISIBLE FROM SPRING STREET RIGHT-OF-WAY OR ANY RESIDENTIAL USES. THE CLOSEST RESIDENTIAL USE (2 SOLAR CR) IS LOCATED APPROXIMATELY 1,000 FT. FROM THE DEVELOPMENT. THE 45.8 FT. LOADING AREA BEHIND THE PRINCIPAL BUILDING HAS BEEN SIZED DUE TO THE TURNING RADIUS OF A BOX TRUCK ACCESSING THE LOADING DOCK AND LEAVING THE SITE. BASED ON THE TECHNICAL JUSTIFICATION ABOVE WE BELIEVE ADEQUATE PARKING LOT PERIMETER LANDSCAPING HAS BEEN PROVIDED.





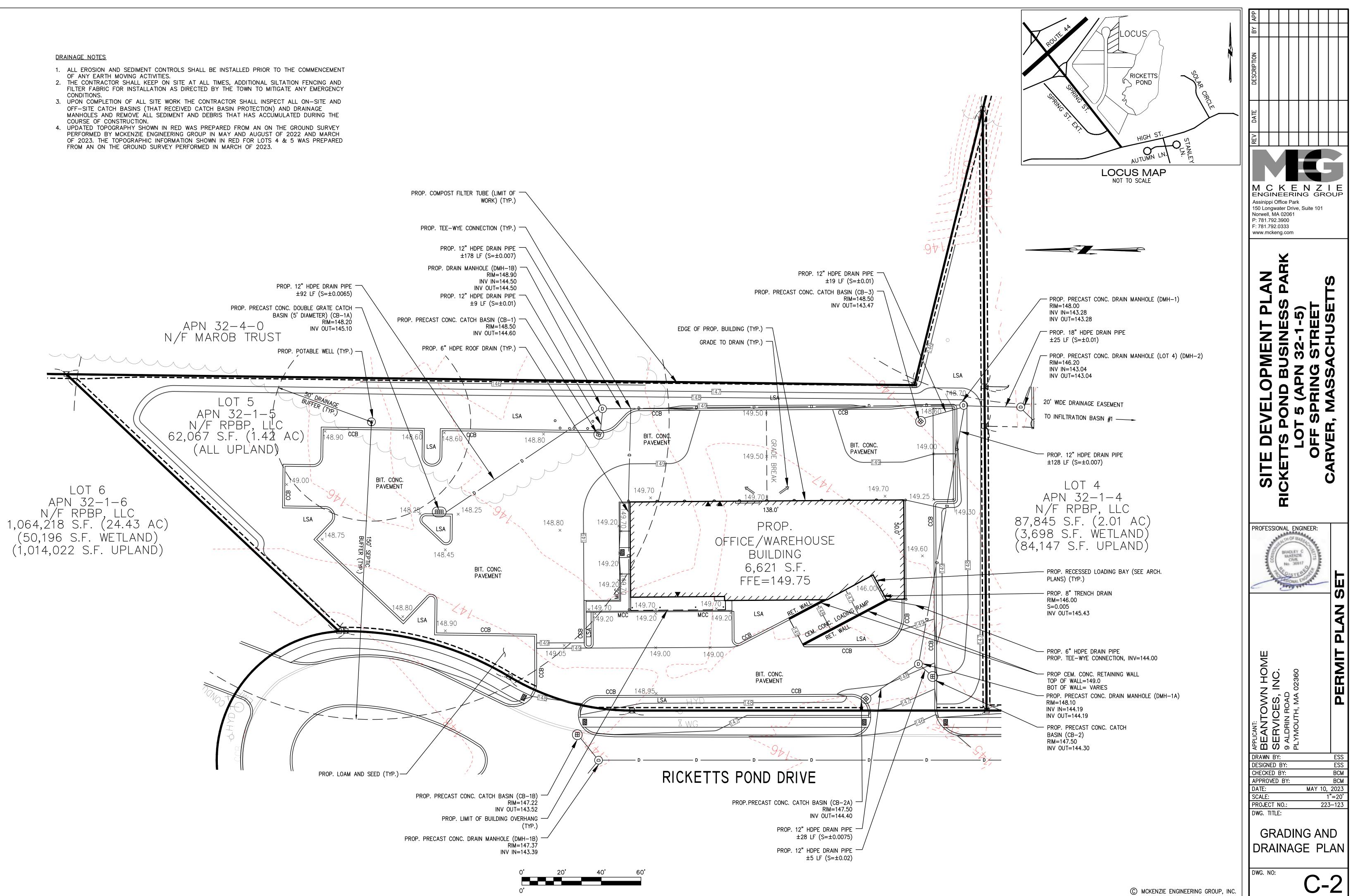
SPRING STREET INNOVATION ZONING DISTRICT (SSID)				
CRITERIA	REQUIRED	PROPOSED		
MIN. LOT AREA	60,000 S.F.	62,067 S.F.		
MIN. FRONTAGE	175 FT.	333.6 FT.		
MAX. BUILDING HEIGHT	40 FT.	26.67 FT.		
FRONT YARD BUILDING SETBACK	50 FT.	50.5 FT.		
REAR YARD BUILDING SETBACK	40 FT.	57.9 FT.		
SIDE YARD BUILDING SETBACK	40 FT.	41.0 FT.		
MIN. LOT WIDTH AT BUILDING LINE	80 FT.	379.9 FT.		
MAX. % OF LOT COVERED BY BUILDING	25%	10.7%		

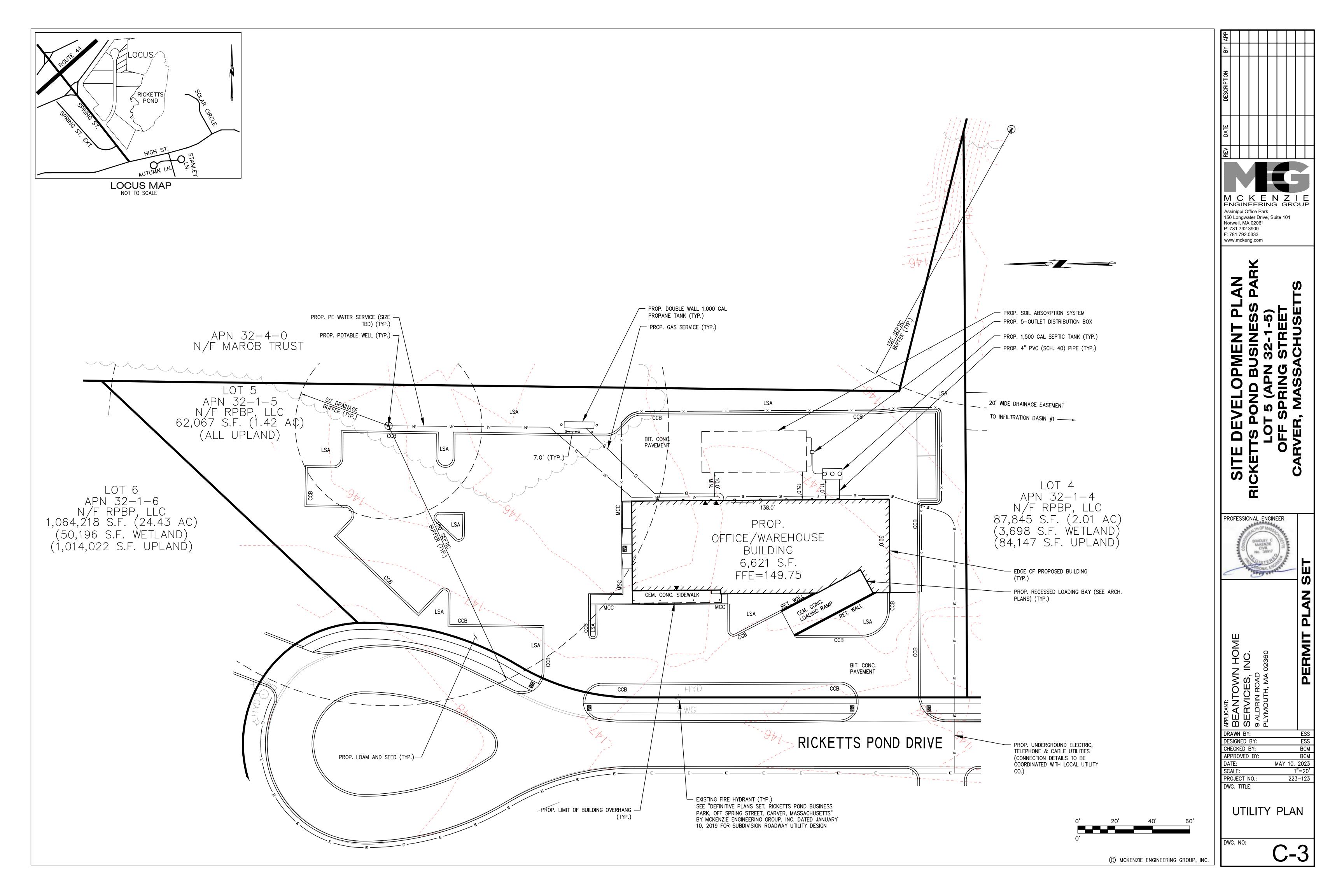
CRITERIA	REQUIRED (CARVER 2
OFFICE	1 SPACE/250 S.F. GF = (5,000 S.F.) / 250
WAREHOUSE AND STORAGE	1 PER 2 EMPLOYEES PER 5,000 S.F. (3 WA = (1 SPACE/2 EMPLO = 1.5 SPACES

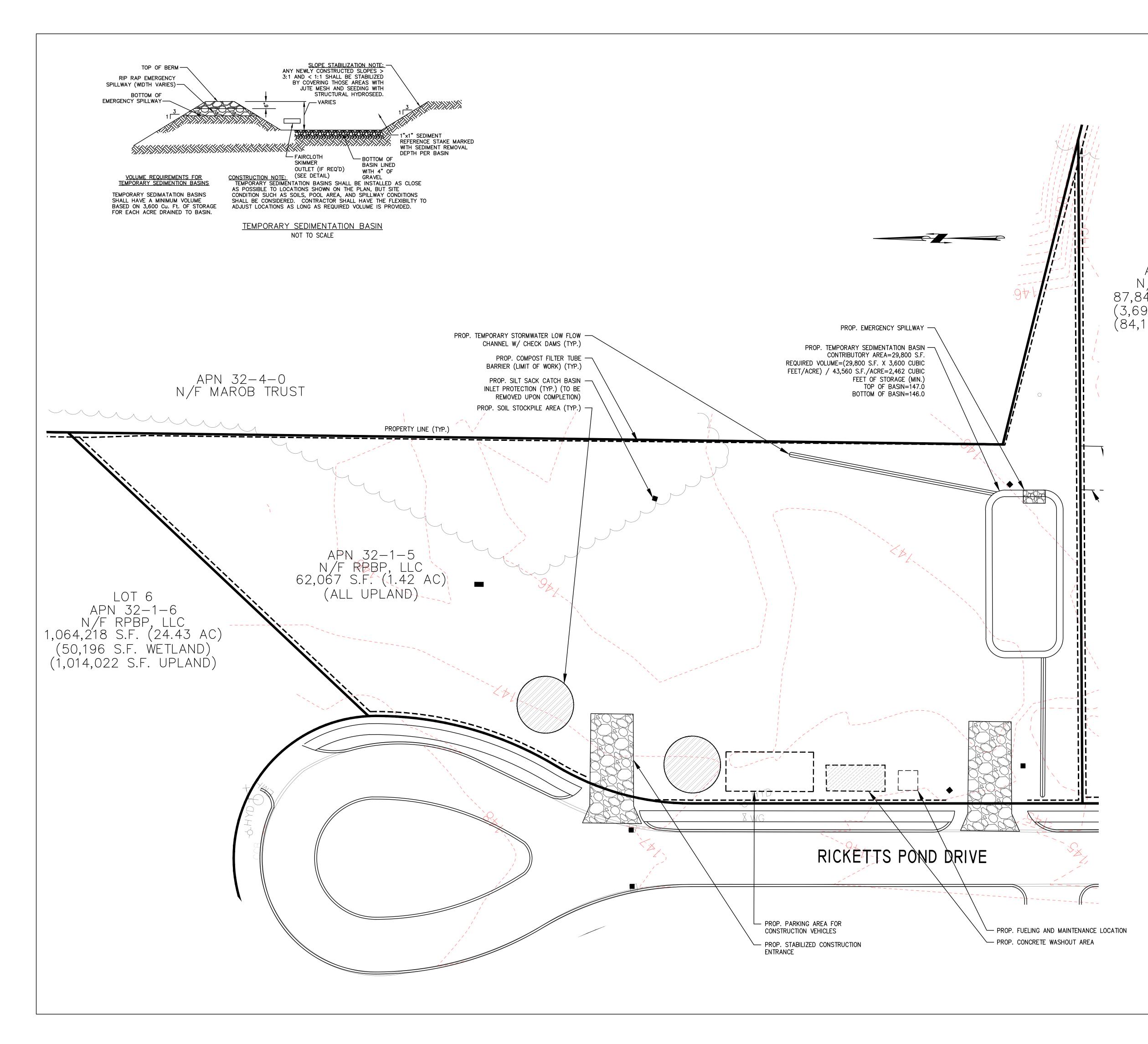


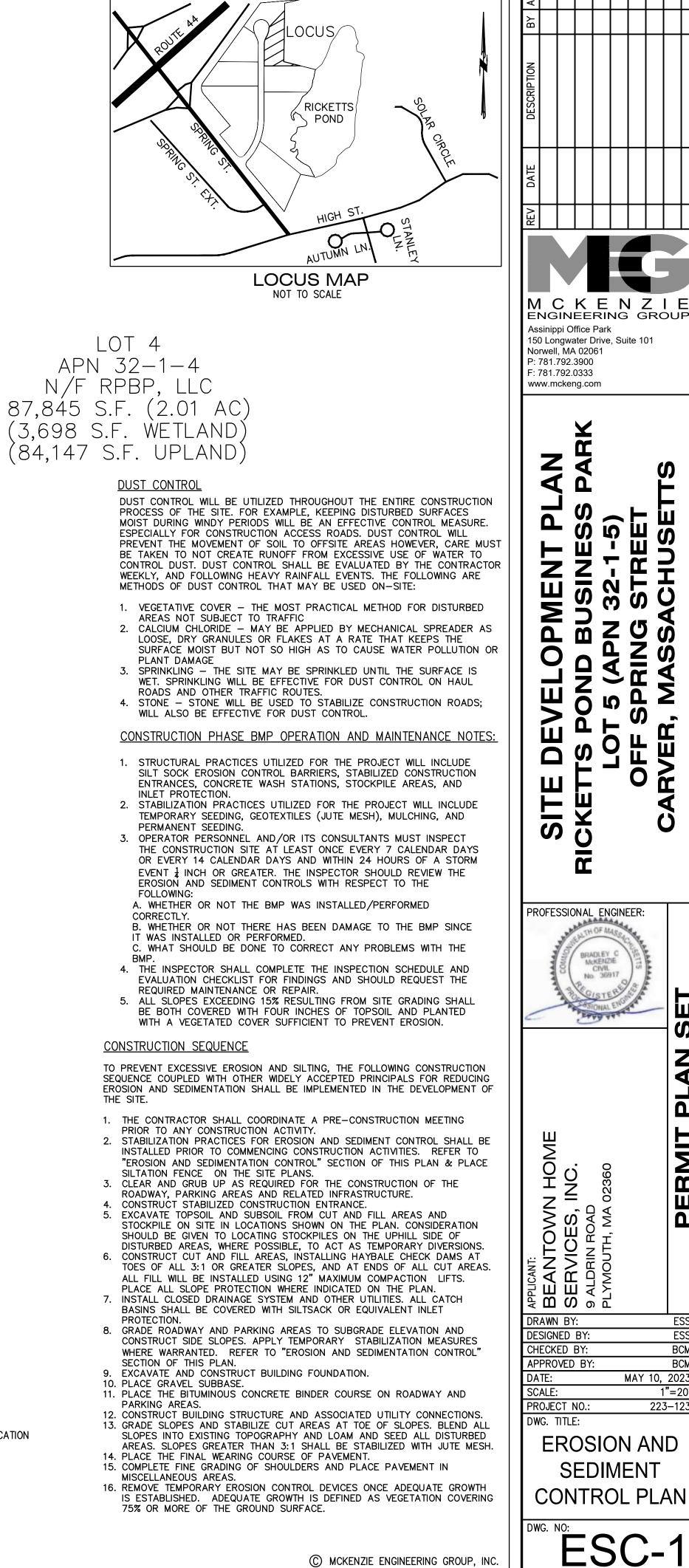


- CONDITIONS. OFF-SITE CATCH BASINS (THAT RECEIVED CATCH BASIN PROTECTION) AND DRAINAGE MANHOLES AND REMOVE ALL SEDIMENT AND DEBRIS THAT HAS ACCUMULATED DURING THE
- PERFORMED BY MCKENZIE ENGINEERING GROUP IN MAY AND AUGUST OF 2022 AND MARCH FROM AN ON THE GROUND SURVEY PERFORMED IN MARCH OF 2023.









© MCKENZIE ENGINEERING GROUP, INC

ы С S S G Ш S μщĩш - Č B -ΖĪΓ MEN JSIN 32-STF STF Ζ S ZÖ ٩ ٩ **O W** чЩШ Ō L Ο U **PROFESSIONAL ENGINEER:** S Ζ ם RMIT Ш BCM BCM MAY 10, 2023 1"=20 223-123 **EROSION AND** SEDIMENT **CONTROL PLAN** 

ທ

### DUST CONTROL

DUST CONTROL WILL BE UTILIZED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS OF THE SITE. FOR EXAMPLE, KEEPING DISTURBED SURFACES MOIST DURING WINDY PERIODS WILL BE AN EFFECTIVE CONTROL MEASURE. ESPECIALLY FOR CONSTRUCTION ACCESS ROADS. DUST CONTROL WILL PREVENT THE MOVEMENT OF SOIL TO OFFSITE AREAS HOWEVER, CARE MUST BE TAKEN TO NOT CREATE RUNOFF FROM EXCESSIVE USE OF WATER TO CONTROL DUST. DUST CONTROL SHALL BE EVALUATED BY THE CONTRACTOR WEEKLY. AND FOLLOWING HEAVY RAINFALL EVENTS. THE FOLLOWING ARE METHODS OF DUST CONTROL THAT MAY BE USED ON-SITE:

- 1. VEGETATIVE COVER THE MOST PRACTICAL METHOD FOR DISTURBED

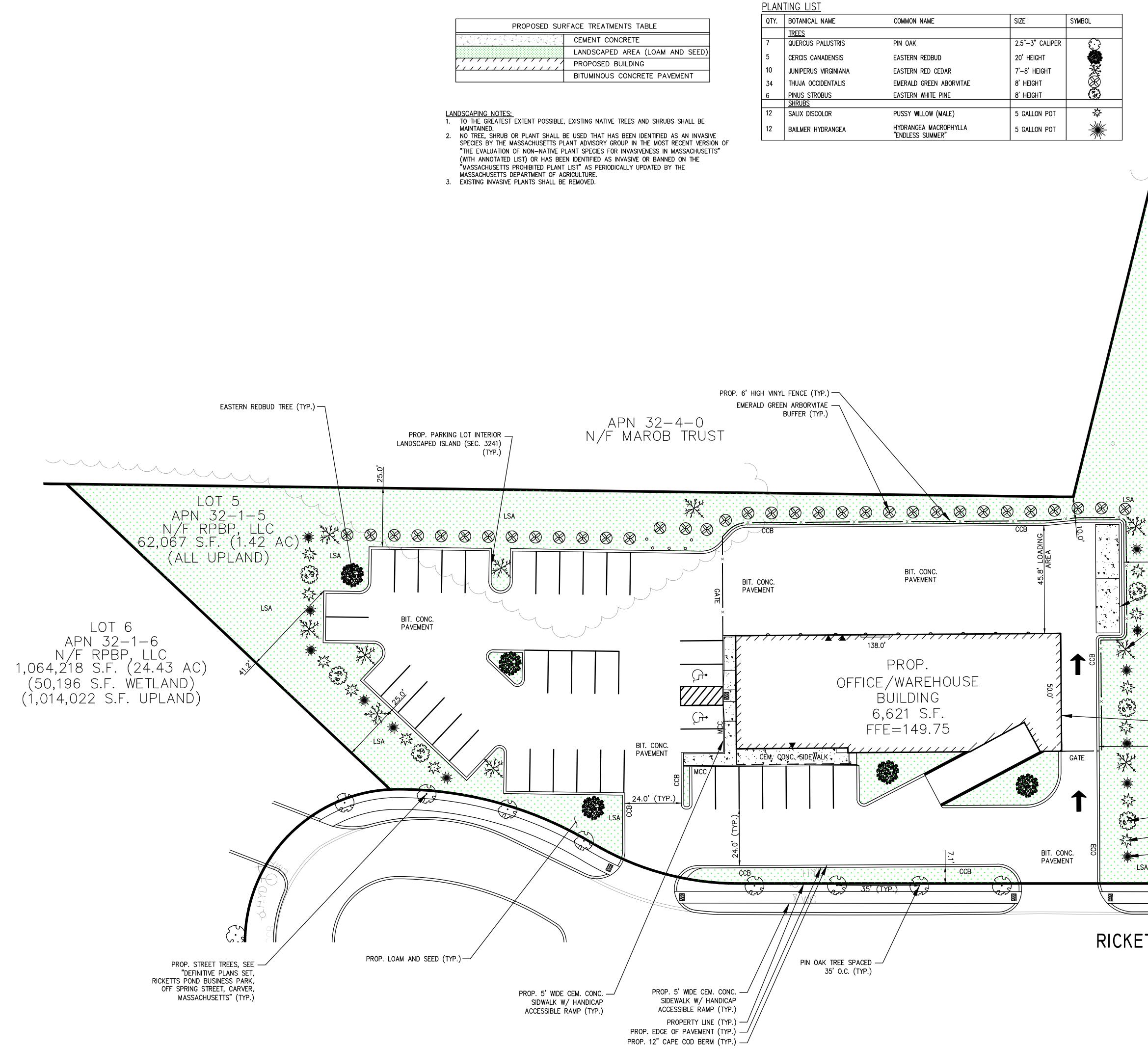
- WILL ALSO BE EFFECTIVE FOR DUST CONTROL.

- 1. STRUCTURAL PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE
- 2. STABILIZATION PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE
- OPERATOR PERSONNEL AND/OR ITS CONSULTANTS MUST INSPECT
- B. WHETHER OR NOT THERE HAS BEEN DAMAGE TO THE BMP SINCE IT WAS INSTALLED OR PERFORMED. C. WHAT SHOULD BE DONE TO CORRECT ANY PROBLEMS WITH THE
- 4. THE INSPECTOR SHALL COMPLETE THE INSPECTION SCHEDULE AND EVALUATION CHECKLIST FOR FINDINGS AND SHOULD REQUEST THE
- 5. ALL SLOPES EXCEEDING 15% RESULTING FROM SITE GRADING SHALL

### CONSTRUCTION SEQUENCE

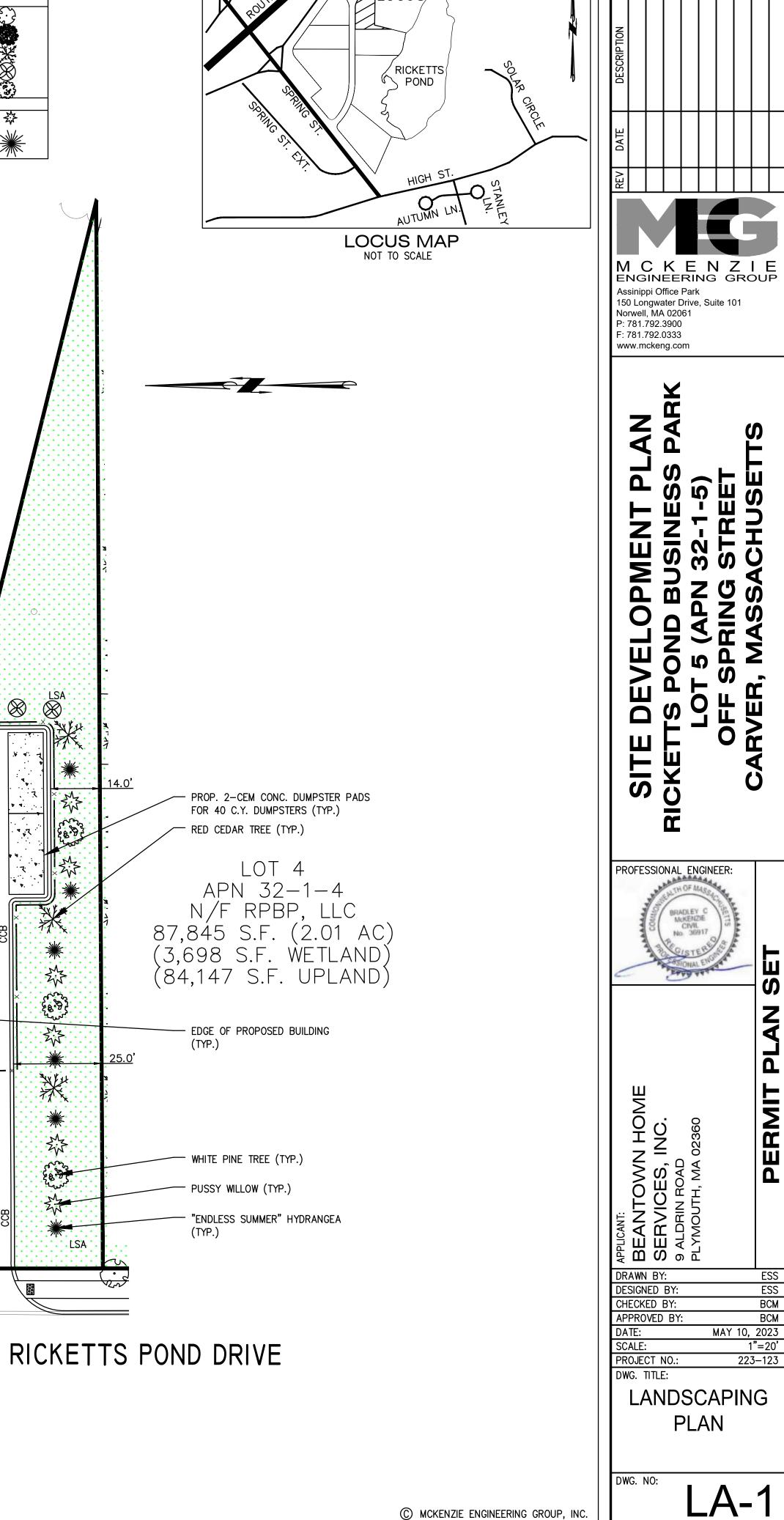
TO PREVENT EXCESSIVE EROSION AND SILTING, THE FOLLOWING CONSTRUCTION SEQUENCE COUPLED WITH OTHER WIDELY ACCEPTED PRINCIPALS FOR REDUCING EROSION AND SEDIMENTATION SHALL BE IMPLEMENTED IN THE DEVELOPMENT OF THE SITE.

- PRIOR TO ANY CONSTRUCTION ACTIVITY. 2. STABILIZATION PRACTICES FOR EROSION AND SEDIMENT CONTROL SHALL BE
- INSTALLED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. REFER TO "EROSION AND SEDIMENTATION CONTROL" SECTION OF THIS PLAN & PLACE SILTATION FENCE ON THE SITE PLANS.
- ROADWAY, PARKING AREAS AND RELATED INFRASTRUCTURE. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE. EXCAVATE TOPSOIL AND SUBSOIL FROM CUT AND FILL AREAS AND
- STOCKPILE ON SITE IN LOCATIONS SHOWN ON THE PLAN. CONSIDERATION SHOULD BE GIVEN TO LOCATING STOCKPILES ON THE UPHILL SIDE OF DISTURBED AREAS, WHERE POSSIBLE, TO ACT AS TEMPORARY DIVERSIONS. 6. CONSTRUCT CUT AND FILL AREAS, INSTALLING HAYBALE CHECK DAMS AT
- ALL FILL WILL BE INSTALLED USING 12" MAXIMUM COMPACTION LIFTS. PLACE ALL SLOPE PROTECTION WHERE INDICATED ON THE PLAN. INSTALL CLOSED DRAINAGE SYSTEM AND OTHER UTILITIES. ALL CATCH
- PROTECTION. 8. GRADE ROADWAY AND PARKING AREAS TO SUBGRADE ELEVATION AND CONSTRUCT SIDE SLOPES. APPLY TEMPORARY STABILIZATION MEASURES
- SECTION OF THIS PLAN. 9. EXCAVATE AND CONSTRUCT BUILDING FOUNDATION.
- 10. PLACE GRAVEL SUBBASE. 11. PLACE THE BITUMINOUS CONCRETE BINDER COURSE ON ROADWAY AND
- 12. CONSTRUCT BUILDING STRUCTURE AND ASSOCIATED UTILITY CONNECTIONS. 13. GRADE SLOPES AND STABILIZE CUT AREAS AT TOE OF SLOPES. BLEND ALL SLOPES INTO EXISTING TOPOGRAPHY AND LOAM AND SEED ALL DISTURBED AREAS. SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH.
- 15. COMPLETE FINE GRADING OF SHOULDERS AND PLACE PAVEMENT IN
- 16. REMOVE TEMPORARY EROSION CONTROL DEVICES ONCE ADEQUATE GROWTH IS ESTABLISHED. ADEQUATE GROWTH IS DEFINED AS VEGETATION COVERING 75% OR MORE OF THE GROUND SURFACE.



D SURFACE TREATMENTS TABLE				
	CEMENT CONCRETE			
	LANDSCAPED AREA (LOAM AND SEED)			
	PROPOSED BUILDING			
	BITUMINOUS CONCRETE PAVEMENT			

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SYMBOL
	TREES			
7	QUERCUS PALUSTRIS	PIN OAK	2.5"-3" CALIPER	<u></u>
5	CERCIS CANADENSIS	EASTERN REDBUD	20' HEIGHT	
10	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	7'-8' HEIGHT	X
34	THUJA OCCIDENTALIS	EMERALD GREEN ABORVITAE	8' HEIGHT	$\otimes$
6	PINUS STROBUS	EASTERN WHITE PINE	8' HEIGHT	
	<u>SHRUBS</u>			
12	SALIX DISCOLOR	PUSSY WILLOW (MALE)	5 GALLON POT	27
12	BAILMER HYDRANGEA	HYDRANGEA MACROPHYLLA "ENDLESS SUMMER"	5 GALLON POT	*



LSA

API

ш

**O** 

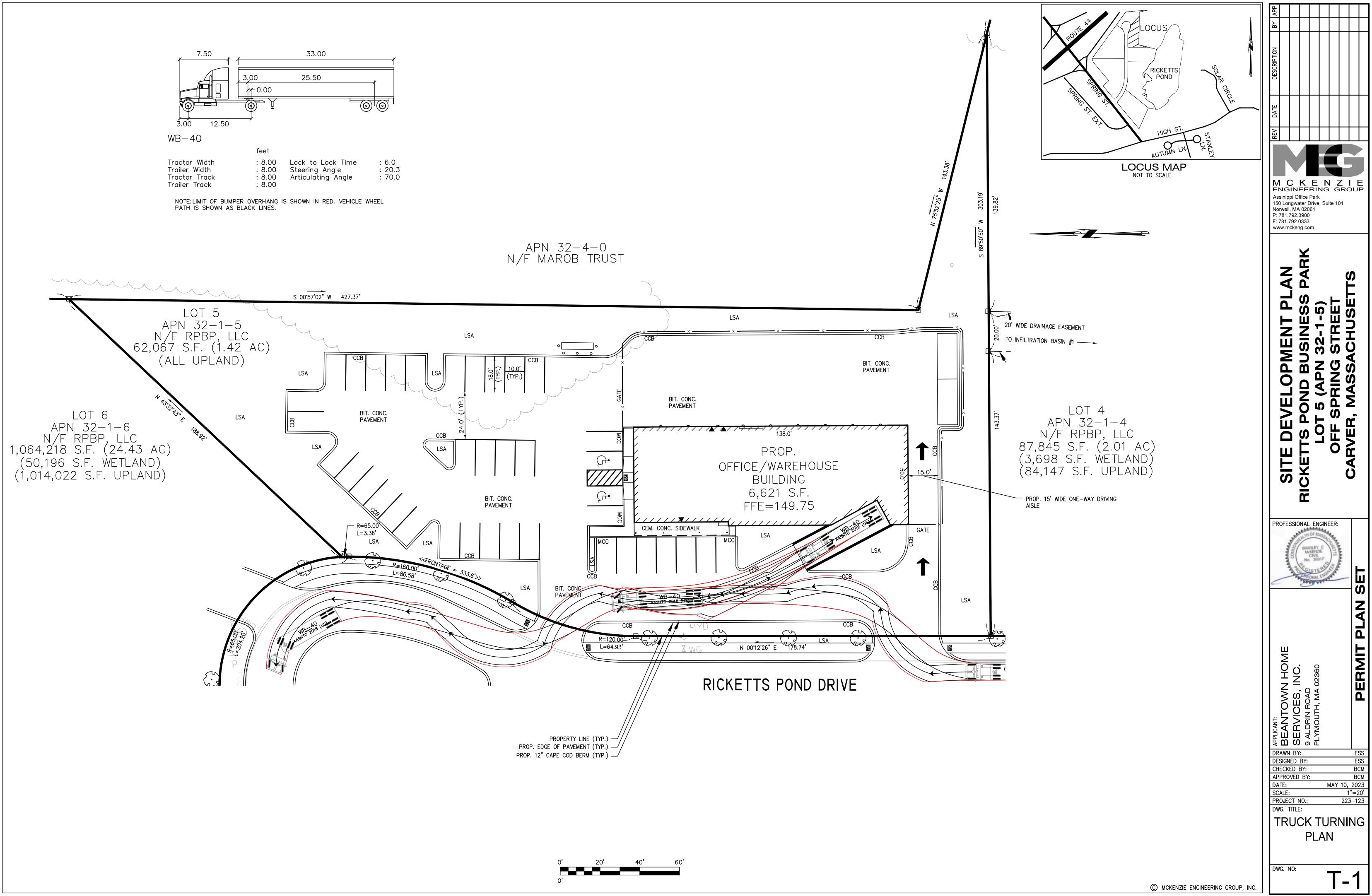
PLAN

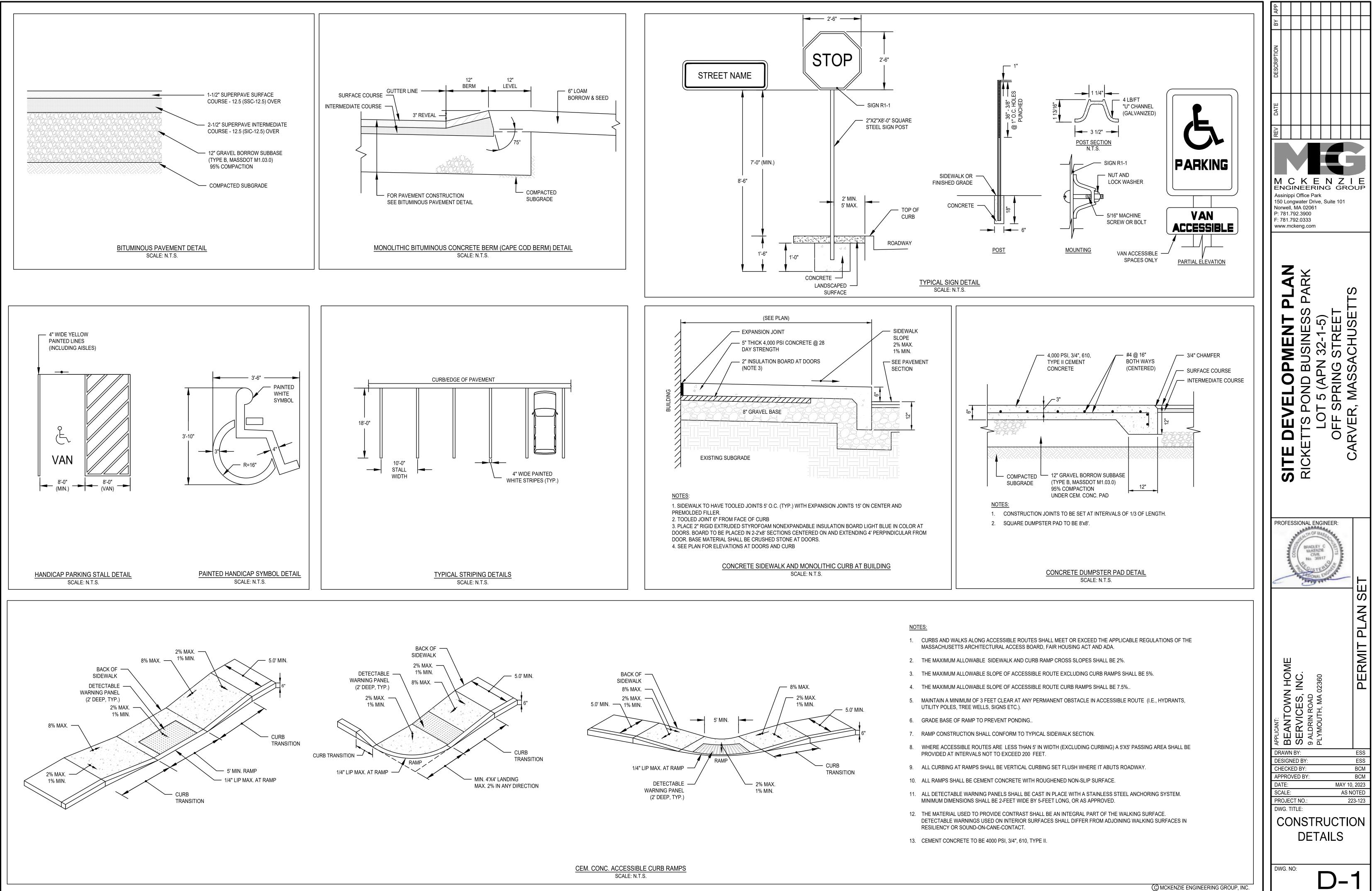
PERMIT

ESS

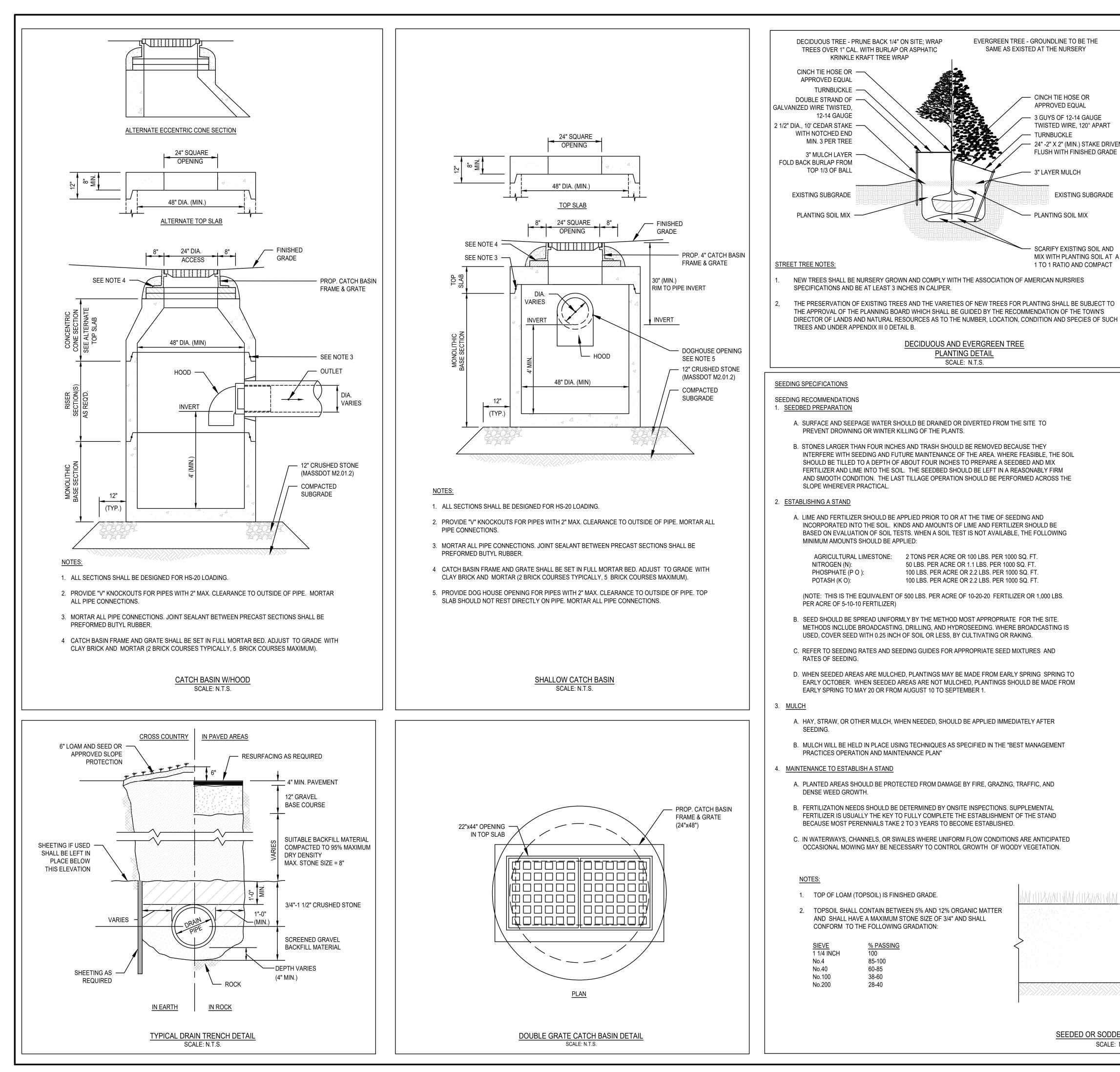
ESS BCM

© MCKENZIE ENGINEERING GROUP, INC.





M:\MEG\2017 PROJECTS\217-182 (SLT CARVER)\RESEARCH\SLT\INDIVIDUAL LOT DEVELOPMENT\LOT 5\221-190 DETAIL SHEETS.DWG



>	۵ <u>.</u>

· CINCH TIE HOSE OR

APPROVED EQUAL

- TURNBUCKLE

- 3" LAYER MULCH

PLANTING SOIL MIX

SCARIFY EXISTING SOIL AND

1 TO 1 RATIO AND COMPACT

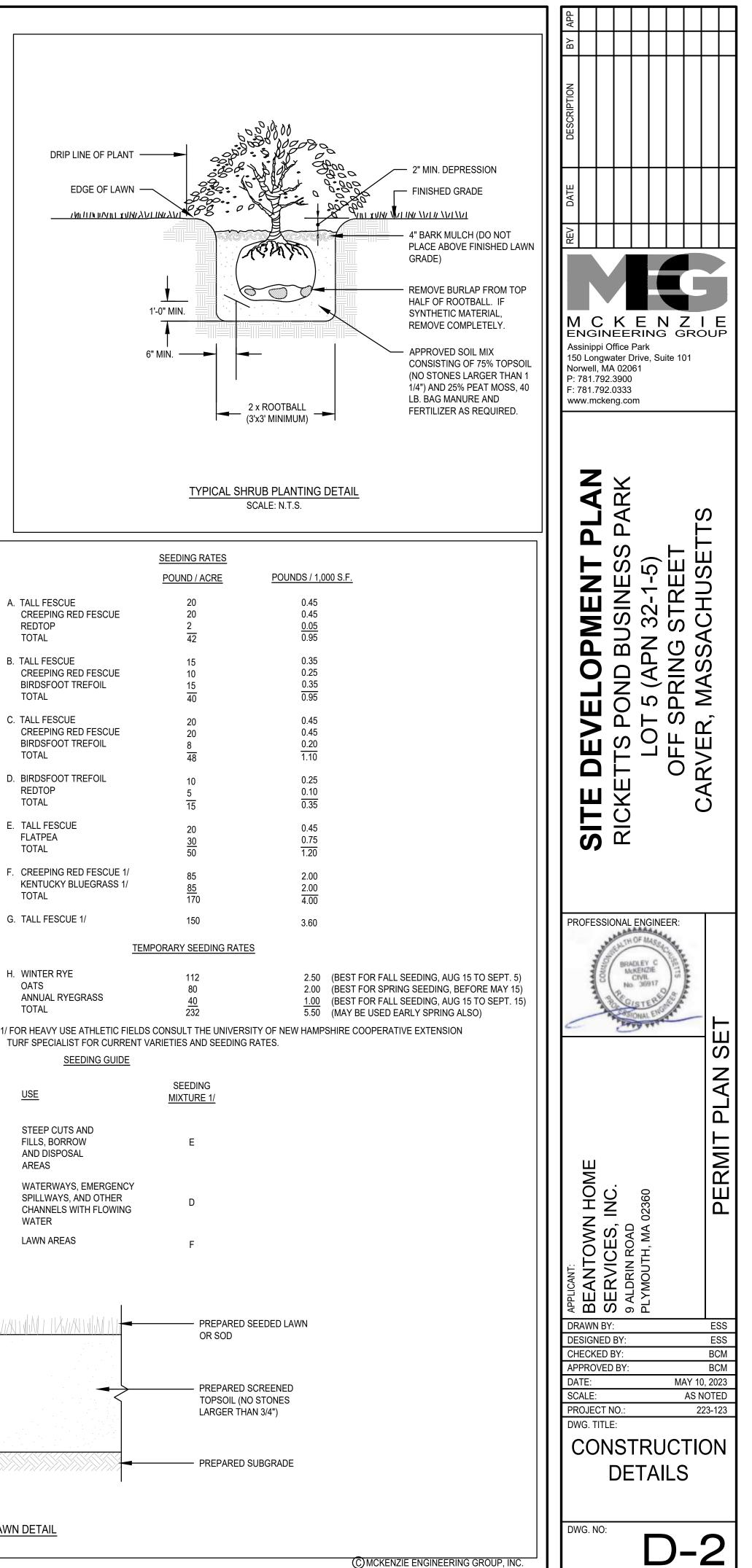
MIX WITH PLANTING SOIL AT A

3 GUYS OF 12-14 GAUGE

TWISTED WIRE, 120° APART

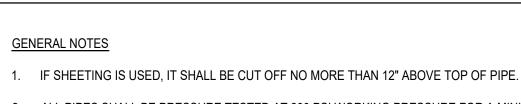
24" -2" X 2" (MIN.) STAKE DRIVEN FLUSH WITH FINISHED GRADE

EXISTING SUBGRADE

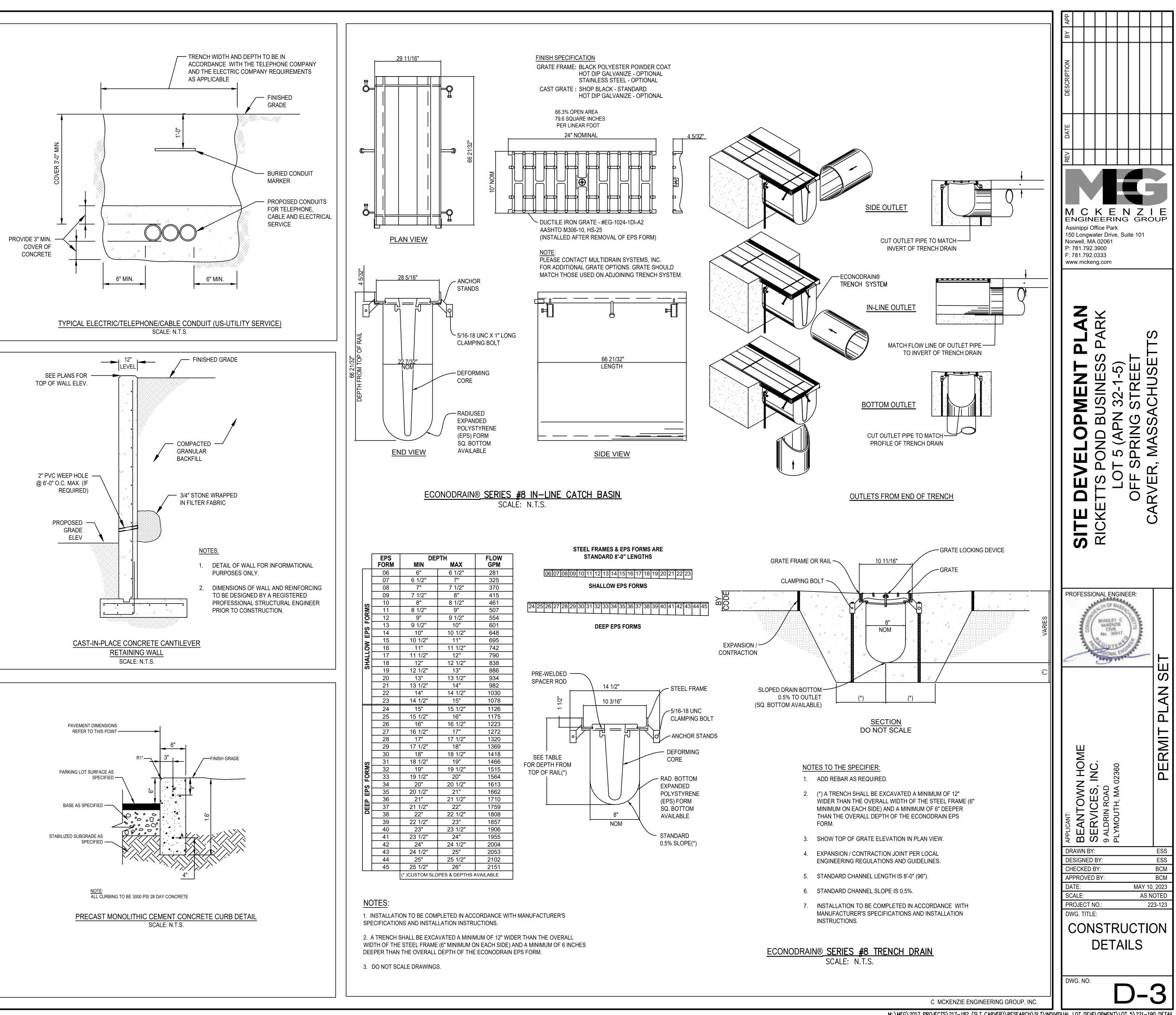


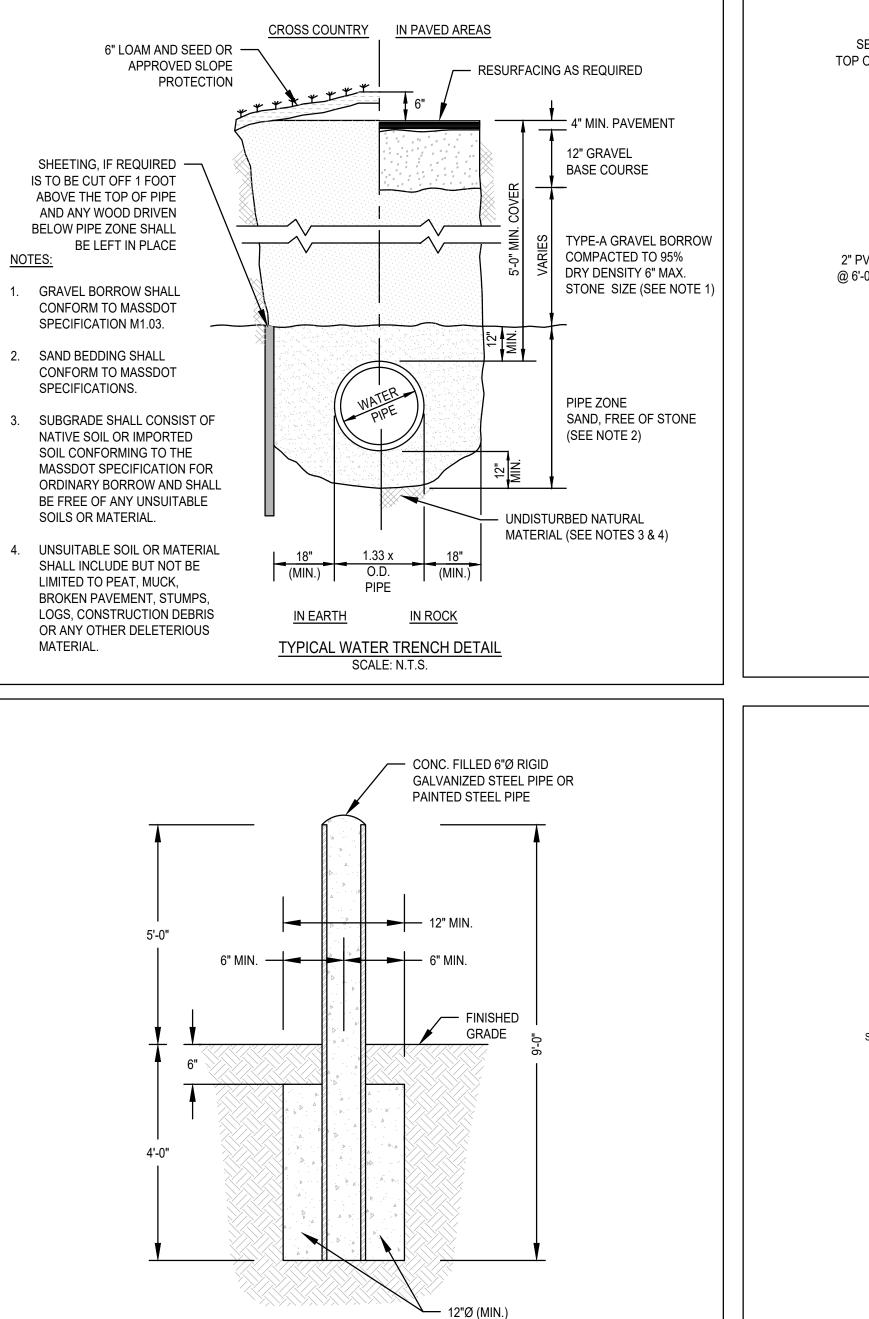
M:\MEG\2017 PROJECTS\217-182 (SLT CARVER)\RESEARCH\SLT\INDIVIDUAL LOT DEVELOPMENT\LOT 5\221-190 DETAIL

SHEETS.DWG



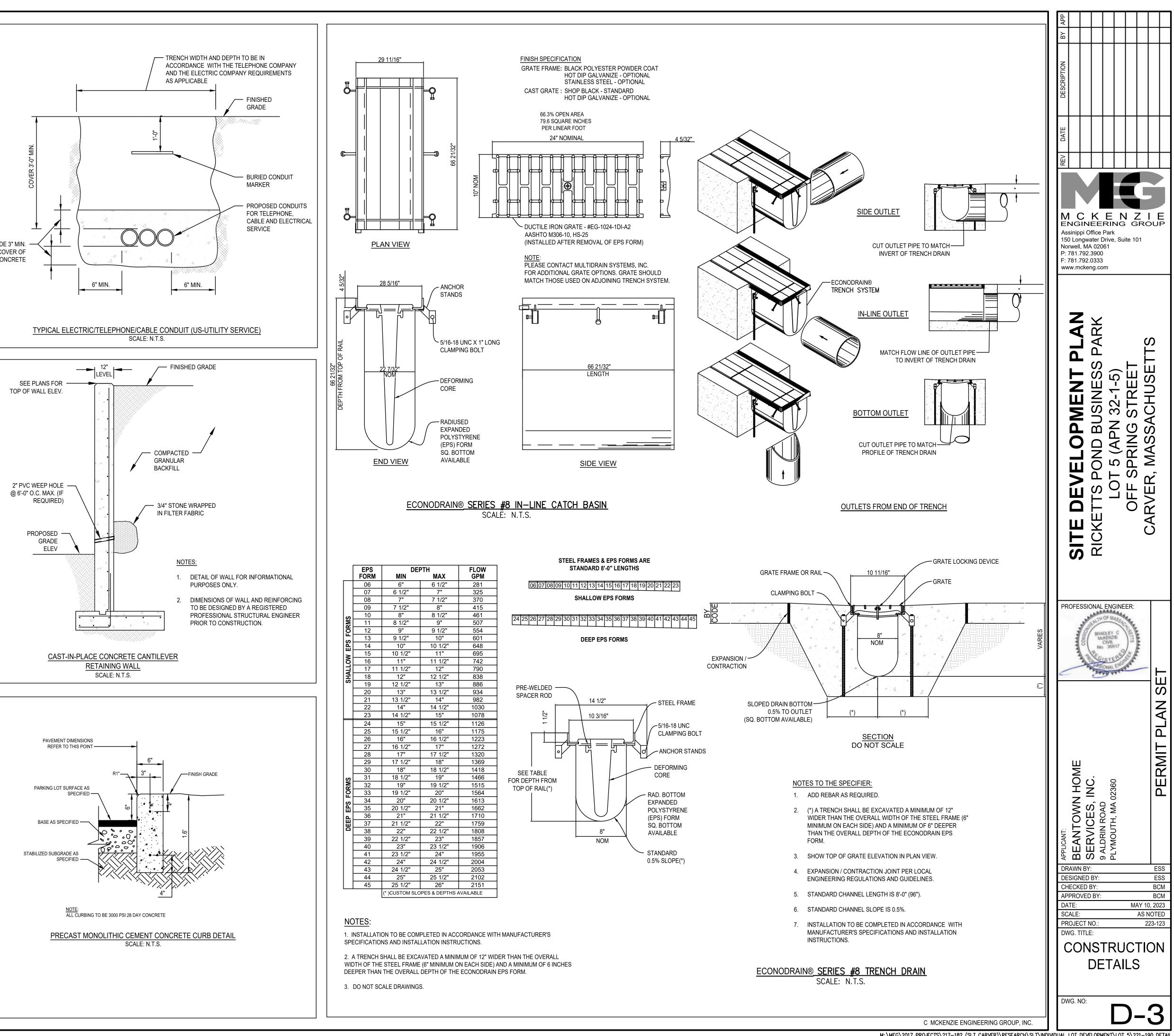
- ALL PIPES SHALL BE PRESSURE TESTED AT 200 PSI WORKING PRESSURE FOR A MINIMUM DURATION OF TWO HOUR.
- WATER SYSTEM IS TO BE DISINFECTED TO 50 P.P.M. AVAILABLE CHLORINE AND AFTER 24 HOURS TO 25 P.P.M. OR AS REQUIRED BY CARVER WATER SUPERINTENDENT/ENGINEER.
- WATER PIPE IS TO BE CEMENT LINED DUCTILE IRON "TYTON" OR EQUAL TYPE JOIN, CONFORMING TO A.N.S.I./A.W.W.A. C150/A21.50, CLASS 52, AS APPROVED BY THE TOWN'S WATER SUPERINTENDENT/ENGINEER.
- ALL PIPING SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH A.W.W.A. STANDARDS PRIOR TO PAVING IF PAVING ABOVE TRENCH IS REQUIRED.
- 6. BACKFILL IS TO BE COMPACTED TO 90% MAXIMUM DRY DENSITY BY AASHTO T-180 D.
- ALL WATER PIPE SHALL BE LAID WITH A MINIMUM OF 5 FEET OF COVER OF APPROVED MATERIALS.
- RESULTS FROM PRESSURE TESTING AND DISINFECTION SHALL BE FURNISHED TO THE CARVER WATER DEPT. AND DIRECTOR OF PUBLIC WORKS FOR APPROVAL PRIOR TO WATER BEING TURNED ON.
- 9. ALL WORK SHALL BE IN CONFORMANCE WITH CARVER WATER DEPT. STANDARDS.
- 10. ALL PERMITS REQUIRED FOR STREET OPENINGS AND WATER MAIN TAPPING MUST BE OBTAINED.
- 11. NO WATER WILL BE TURNED ON IN THE PROJECT WITHOUT CARVER WATER DEPT. APPROVAL

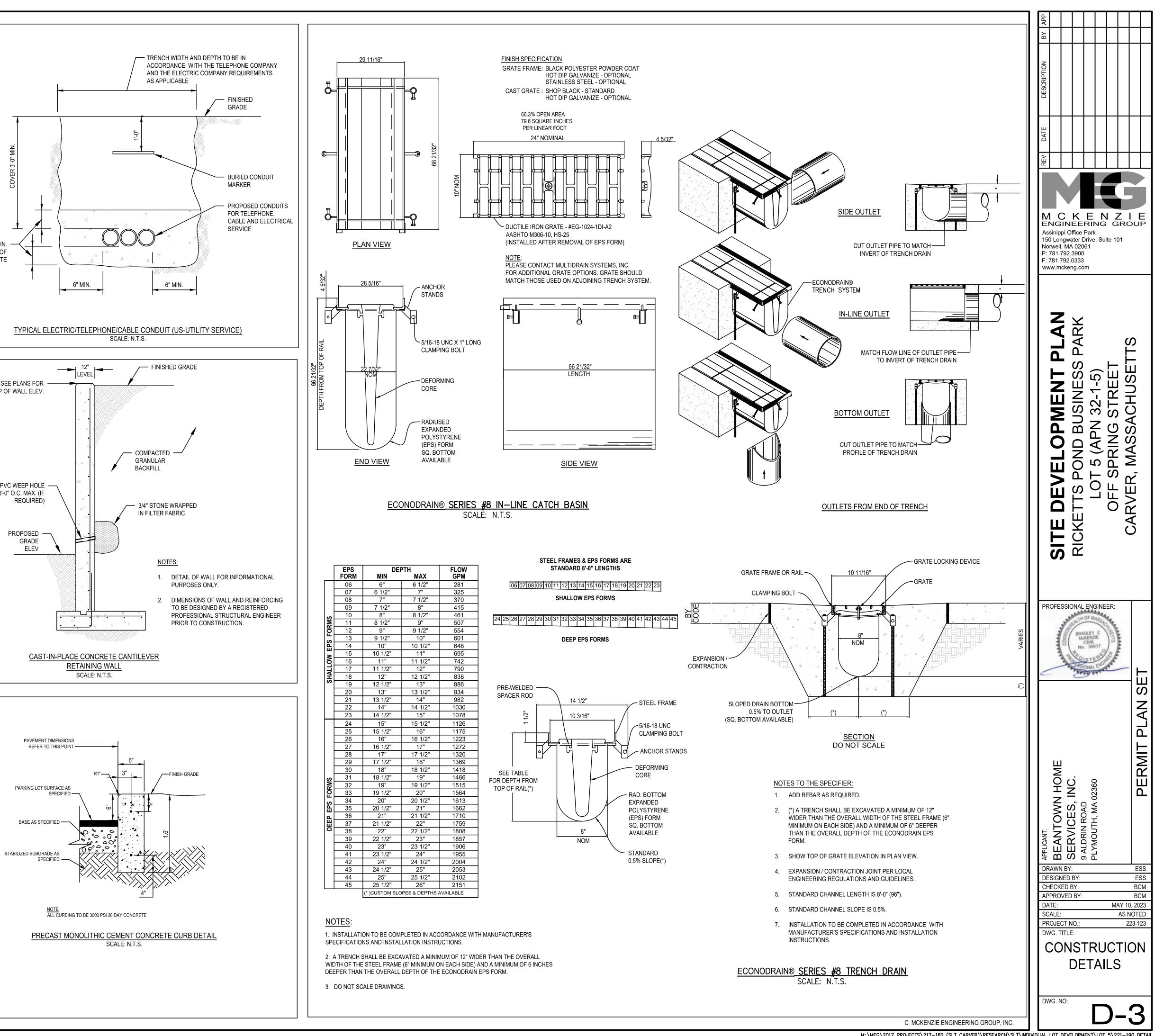




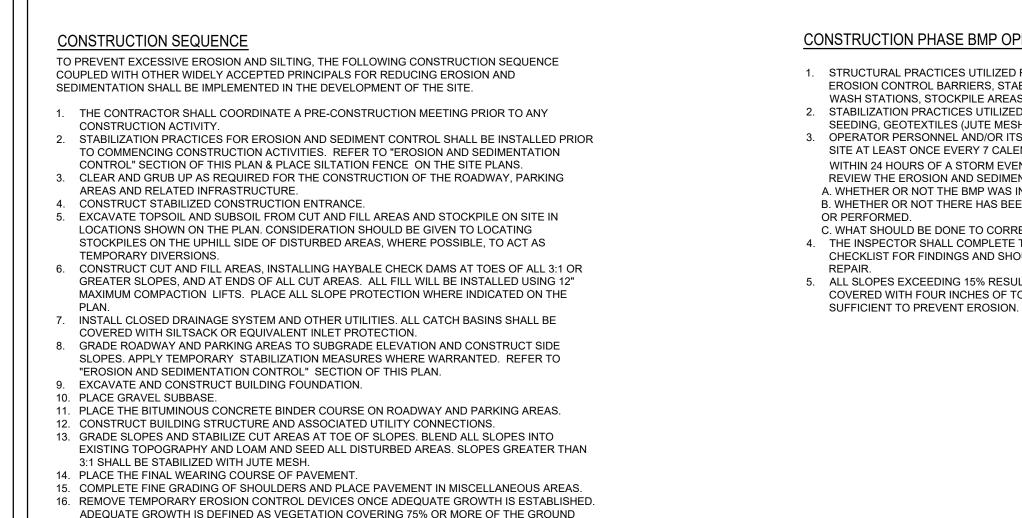
CEM. CONC. FOOTING

BOLLARD DETAIL SCALE: N.T.S.





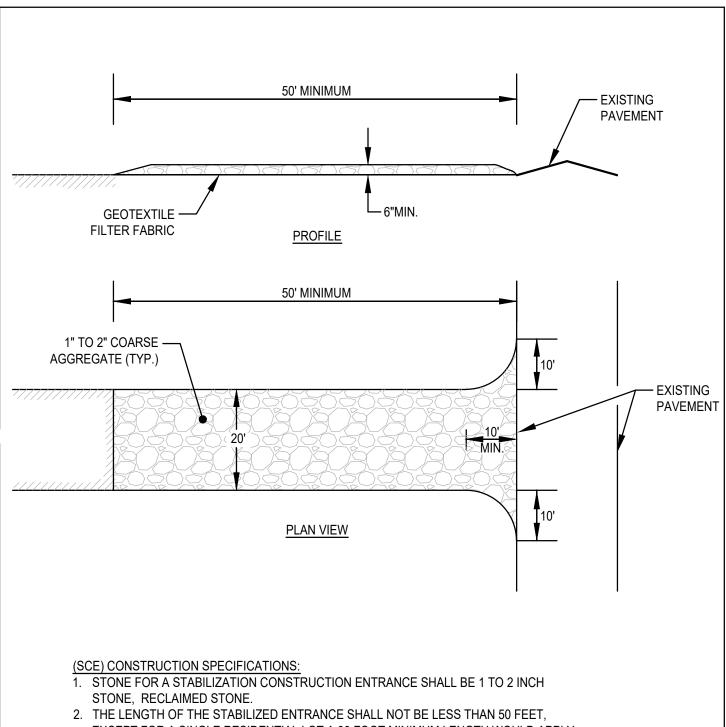
M:\MEG\2017 PROJECTS\217-182 (SLT CARVER)\RESEARCH\SLT\INDIVIDUAL LOT DEVELOPMENT\LOT 5\221-190 DETAIL SHEETS.DWG



### **EROSION AND SEDIMENTATION CONTROL**

SURFACE

- STRUCTURAL PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE SILT SOCK BARRIER CONTROLS, STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY DIVERSION SWALES WITH STONE CHECK DAMS,
- SEDIMENT BASINS, AND INLET PROTECTION. STABILIZATION PRACTICES UTILIZED FOR THE PROJECT WILL INCLUDE TEMPORARY SEEDING,
- GEOTEXTILES (JUTE MESH), MULCHING, AND PERMANENT SEEDING. IN GENERAL, THE SMALLEST POSSIBLE AREA OF LAND SHOULD BE EXPOSED AT ONE TIME. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHALL BE CONFINED TO A MAXIMUM PERIOD OF 3 MONTHS. LAND SHALL NOT BE EXPOSED DURING THE WINTER MONTHS. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND THAT WILL BE REGRADED AT A LATER DATE SHALL BE MACHINE HAY MULCHED AND SEEDED WITH WINTER RYE TO PREVENT EROSION.



- EXCEPT FOR A SINGLE RESIDENTIAL LOT A 30 FOOT MINIMUM LENGTH 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 A FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS
- GREATER. 5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
- 6. ALL SURFACE WATER THAT IS FLOWING TO OR DEVERTED TOWARDS 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. SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.

STABILIZED CONSTRUCTION ENTRANCE (SCE) DETAIL SCALE: N.T.S.

