MULTI-FAMILY RESIDENTIAL PROJECT

505 MAIN STREET STURBRIDGE, MA 01518

SHEET INDEX

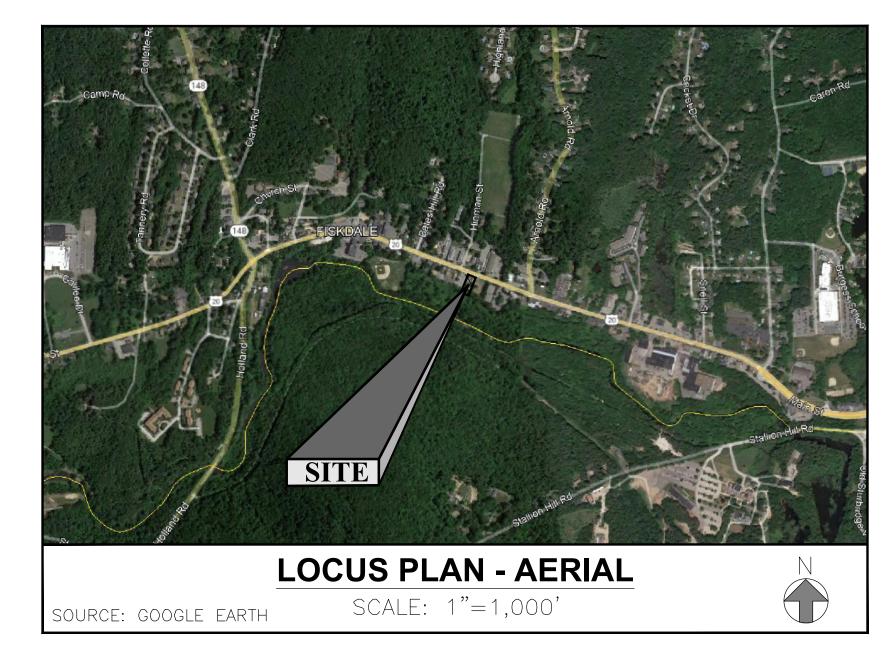
No.	Title	Issue Date
C001	Cover Sheet	January 24, 2024
C101	Site Demo & Sediment and Erosion Control Plan	January 24, 2024
C102	Layout Plan	January 24, 2024
C103	Grading & Drainage Plan	January 24, 2024
C501	Site Details - 1	January 24, 2024
C502	Site Details - 2	January 24, 2024
C503	Site Details - 3	January 24, 2024

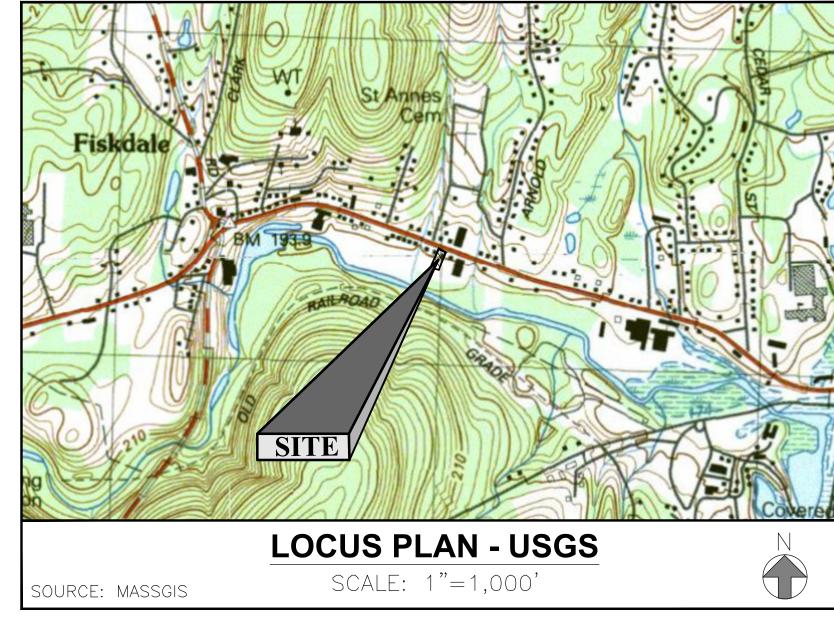
REFERENCE PLAN INDEX

No.	Title	Issue Date
_	Boundary & Topographic Survey (Levesque Geomatics Inc.)	October 27, 2022

REVISIONS/ISSUES

No.	Note	Date
1	Issued for Permitting	December 22, 2022
2	Issued for Permitting	November 3, 2023
3	Revised Parking Layout	January 9, 2024
4	Revised Drainage & Stormwater Systems	January 24, 2024





OWNER

Jenny Bounphasaysonh 126 Southbridge Road Dudley, MA 01571

APPLICANT

STL Group, LLC
P.O. Box 638
Sturbridge, MA 01566

ENVIRONMENTAL CONSULTANT

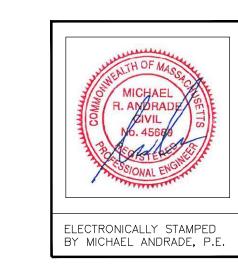
EcoTec, Inc.
102 Grove Street
Worcester, MA 01605

SURVEYOR

Levesque Geomatics Inc.
43 Glendale Road
Sturbridge, MA 01518



100 GROVE STREET | WORCESTER MA 01605 T 508-856-0321 | F 508-856-0357 gravesengineering.com



GENERAL NOTES

STREET ADDRESS: 505 MAIN STREET, STURBRIDGE, MA 01518

ANY FINDINGS SUCH A REPORT MIGHT DISCLOSE.

AREA: $\pm 16,466$ SQ. FT. (0.378 AC.)

JENNY BOUNPHASAYSONH

ZONE: COMMERCIAL TOURIST DISTRICT OVERLAY: ZONE II WELLHEAD PROTECTION AREA

NEATLY SAWCUT.

DISTURBANCE.

SEDIMENT FROM THE SITE.

THE START OF ANY SITE WORK.

PROPERLY DISPOSED OF OFFSITE.

126 SOUTHBRIDGE ROAD DUDLEY, MA 01571

1) THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO

2) LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON THE FIELD LOCATION OF VISIBLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATER GATES, ETC. IN ACCORDANCE WITH CHAPTER 82 SECTION 40 INCLUDING AMENDMENTS, ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE AT 811. THE TOWN OF STURBRIDGE SHALL ALSO BE CONTACTED FOR UTILITY MARKOUTS.

3) PROPERTY LINE DATA AND TOPOGRAPHIC FEATURES ON THIS PLAN ARE BASED ON PLAN PREPARED BY LEVESQUE GEOMATICS INC., DATED OCTOBER 27, 2022.

4) THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 88. HORIZONTAL DATUM IS MASSACHUSETTS STATE PLANE COORDINATE SYSTEM. DATUMS ARE AS ESTABLISHED BY GPS

5) THE SITE PROPERTY IS NOT LOCATED WITHIN ANY DESIGNATION FLOOD ZONES AS SHOWN ON FIRM MAP 25027C0926E, DATED JULY 4, 2011.

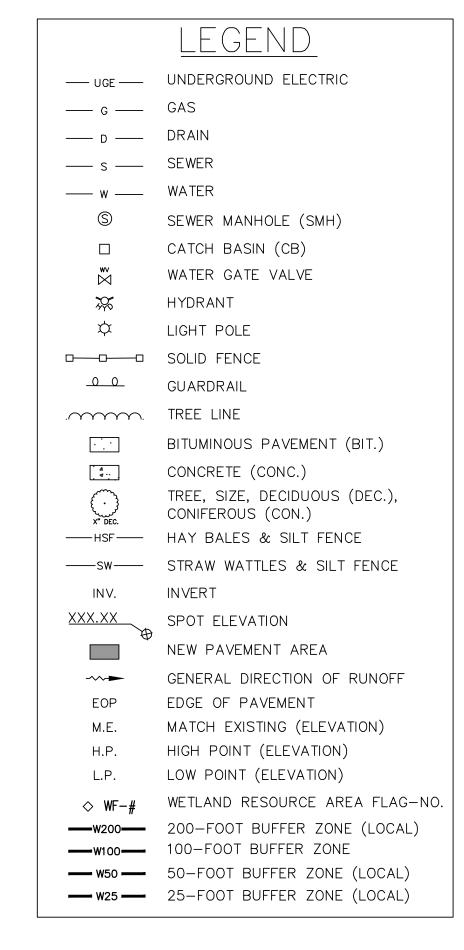
6) RESOURCE AREA BOUNDARY WAS DELINEATED BY ECOTEC, INC. ON NOVEMBER 3, 2022.

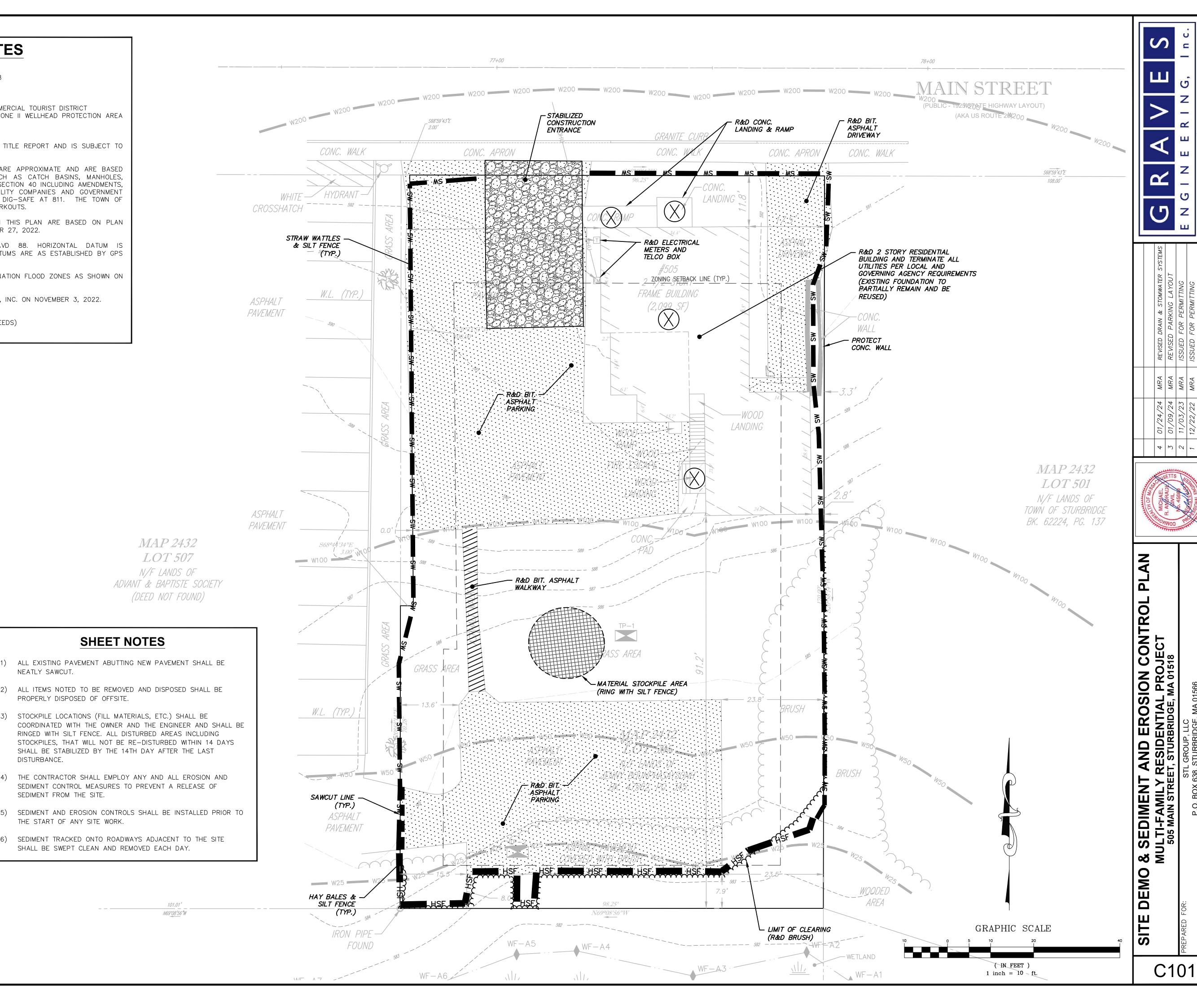
DEED BOOK/PAGE: 47562/345 (WORCESTER REGISTRY OF DEEDS) ASSESSORS REFERENCE: 415-02432-505

SHEET KEY

FEATURES MARKED AS (P) SHALL BE PROTECTED FEATURES MARKED AS X SHALL BE R&D R&D = REMOVE AND DISPOSE (OFFSITE)////// = R&D FEATURE







PROJECT ZONING INFORMATION

PROPOSED REQUIRED **EXISTING** ZONING DISTRICT COMMERCIAL TOURIST COMMERCIAL TOURIST COMMERCIAL TOURIST MINIMUM LOT AREA 10,000 SQ. FT. 16,466 SQ. FT. 16,466 SQ. FT. FRONTAGE 100 FT. 96.25 FT. 96.25 FT. FRONT SETBACK 25 FT. 11.7 FT. 11.7 FT. 10 FT. 2.8 FT. 3.0 FT. SIDE SETBACK 10 FT. 91.2 FT. 90.5 FT. REAR SETBACK MAX. LOT COVERAGE 30% 12.7% 16% MAX. # BUILDING STORIES IMPERVIOUS AREA COVERAGE 59.6% 62.3%

ZONING DISTRICT SOURCE: THE ABOVE INFORMATION WAS OBTAINED FROM THE TOWN OF STURBRIDGE ZONING BYLAWS, AS AMENDED THROUGH JUNE 7, 2021.

PARKING SCHEDULE

REQUIRED PARKING

DWELLING LINIT: 2 SPACE

DWELLING UNIT: 2 SPACES/UNIT

8 UNITS TOTAL

TOTAL SPACES REQUIRED = 8 UNITS X 2 SPACES = 16 SPACES

PROPOSED PARK

16 SPACES (INCLUDES 9 COMPACT SPACES (9' X 16') AND 7 STANDARD SPACES 9' X 18'))

SNOW STORAGE NOTES

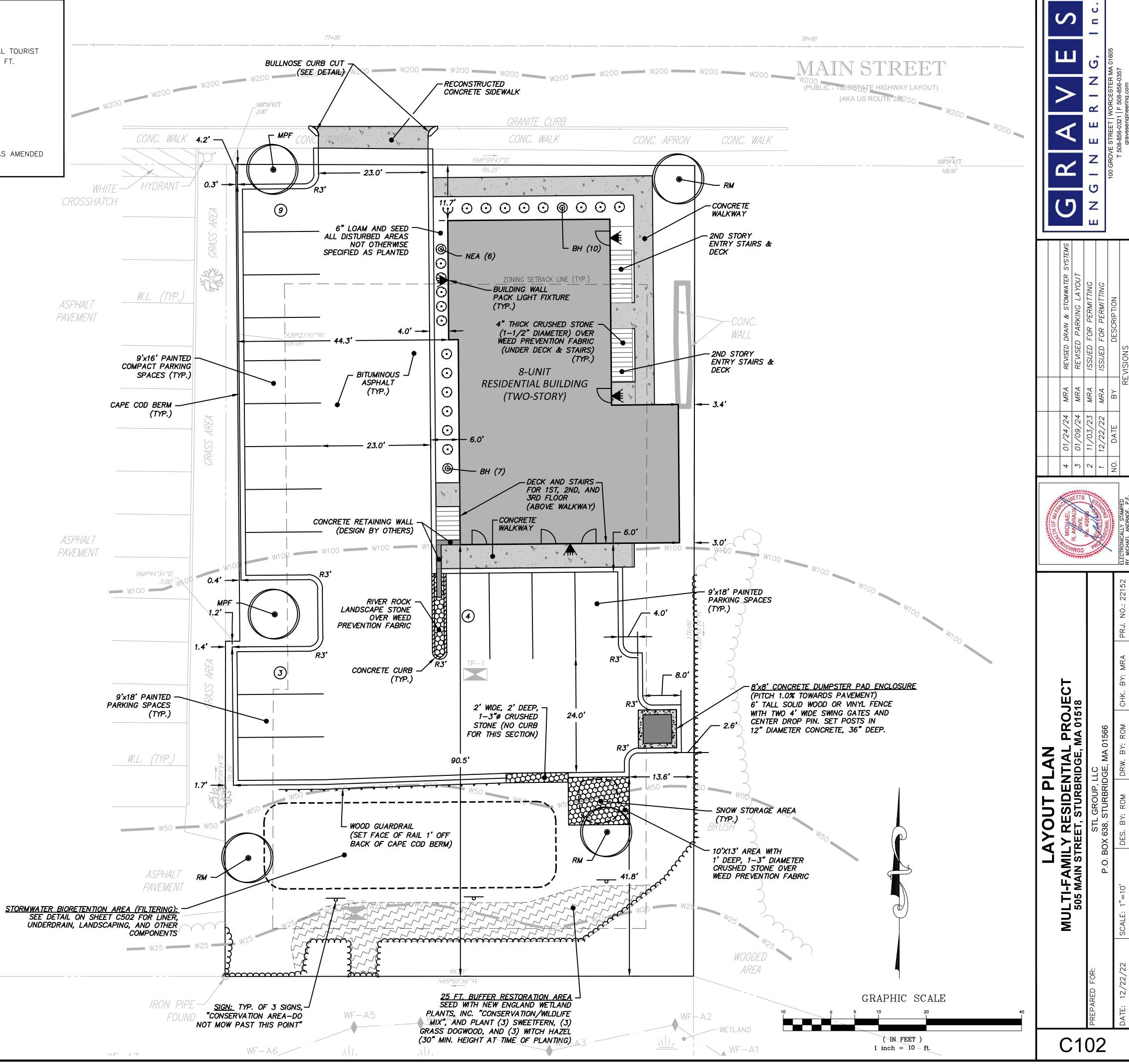
SNOW STORAGE LOCATIONS SHOWN REPRESENT THE MINIMUM NECESSARY AND THE OWNER SHALL EXPAND SUCH AREAS AS NEEDED. SNOW SHALL NOT BE PLACED SO AS TO INHIBIT VEHICLE SIGHT LINES FOR ENTERING AND EXITING THE SITE AND INTERNAL SITE CIRCULATION NOR PLACED TO INHIBIT SITE DRAINAGE.

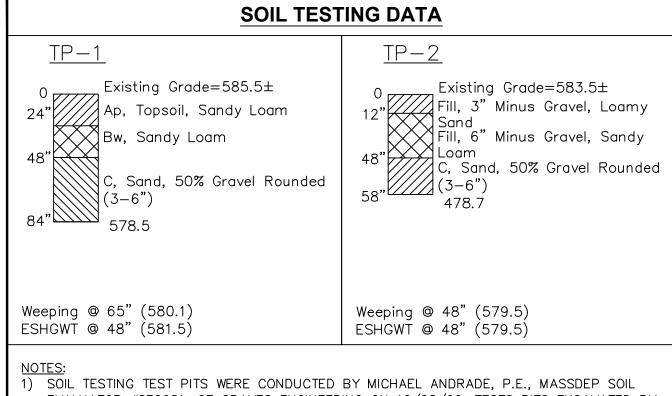
SHEET NOTES

- 1) ALL DIMENSIONS SHOWN ARE MEASURED FROM TOE OF CURB OR CENTER OF PAINTED LINE.
- 2) CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITH 6 INCHES OF LOAM AND SEED OR AS OTHERWISE NOTED ON THE PLANS.
- 3) THE CONTRACTOR SHALL COORDINATE WITH PLANS BY OTHERS (ARCHITECTURAL, STRUCTURAL, MEP, ETC.)
- 4) PAVEMENT MARKINGS SHALL BE PAINTED WITH WHITE TRAFFIC PAINT CONFORMING TO SECTION M7.01.08 OF THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION. LINE WIDTH SHALL BE 4 INCHES.
- 5) PROPOSED LIGHTING SHALL BE BUILDING WALL PACK FIXTURE AS NECESSARY FOR BUILDING AND SITE SECURITY, ALL NEW FIXTURES SHALL BE LED, FULLY SHIELDED TO PREVENT LIGHT SPILLAGE ABOVE THE HORIZONTAL AND ONTO ABUTTING PROPERTIES, AND NIGHT SKY COMPLIANT.

PLANTING LIST							
CODE	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTES		
ORNAME	NTAL TRE	ES					
MPF	MPF 2 MALUS 'DONALD WYMAN' 'DONALD WYMAN' 4'-5' HT. PLANT WHERE SI						
RM	3	ACER RUBRUM	RED MAPLE	4'-5' HT.	PLANT WHERE SHOWN		
SHRUBS	SHRUBS						
BH	17	HYDRANGEA MACROPHYLLA	BIGLEAF HYDRANGEA	18"-24" HT.	-		
NEA	6	SYMPHYOTRICHUM NOVAE—ANGLIAE	NEW ENGLAND ASTER	#1 POT	_		

N69°08'56"W





) SOIL TESTING TEST PITS WERE CONDUCTED BY MICHAEL ANDRADE, P.E., MASSDEP SOIL EVALUATOR #SE2681, OF GRAVES ENGINEERING ON 12/08/22. TESTS PITS EXCAVATED BY CIESLA CONSTRUCTION WITH A TAKEUCHI TB135 MINI TRACK. TEST PITS WERE PERFORMED FOR STORMWATER MANAGEMENT DESIGN PURPOSES ONLY.

2) ESHGWT= ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

SHEET NOTES

- 1) PROVIDE POSITIVE DRAINAGE IN ALL FINISH GRADED WORK AREAS INCLUDING AWAY FROM ALL BUILDINGS.
- 2) ADJUST ALL STRUCTURES (MANHOLES, WATER GATE VALVES, SHUTOFFS, ETC.) TO PROPOSED FINISH GRADES WITHIN THE LIMIT OF WORK.
- 3) ALL DISTURBED AREAS OUTSIDE OF PAVEMENT SHALL BE RESTORED WITH 6 INCHES OF LOAM AND SEEDED OR LANDSCAPED IN ACCORDANCE WITH THE LANDSCAPING PLANS.
- 4) ALL FINISHED GRASSED SLOPES EQUAL TO OR GREATER THAN A 3:1 SLOPE SHALL BE STABILIZED WITH AN EROSION CONTROL MATTING SUCH AS SC-150 BY NORTH AMERICAN GREEN, CURLEX II BY AMERICAN EXCELSIOR, OR ENGINEER APPROVED EQUAL. COORDINATE MATTING LOCATIONS WITH THE LANDSCAPE PLANS AND GROUND COVER MATERIALS.
- 5) PROPOSED GRADES AS SHOWN SHALL BE CARRIED TO ALL PAVEMENT CORNERS HOWEVER GRADE ADJUSTMENTS SHALL BE MADE BY THE CONTRACTOR AS NECESSARY TO PROVIDE POSITIVE DRAINAGE FROM ALL CORNERS
- 6) SPOT GRADE KEY:

(E) = EXISTING GRADE TO BE MAINTAINED
TC = TOP OF CURB FINISH GRADE
BC = BOTTOM OF CURB FINISH GRADE

HP = HIGH POINT LP = LOW POINT ME = MATCH EXISTING

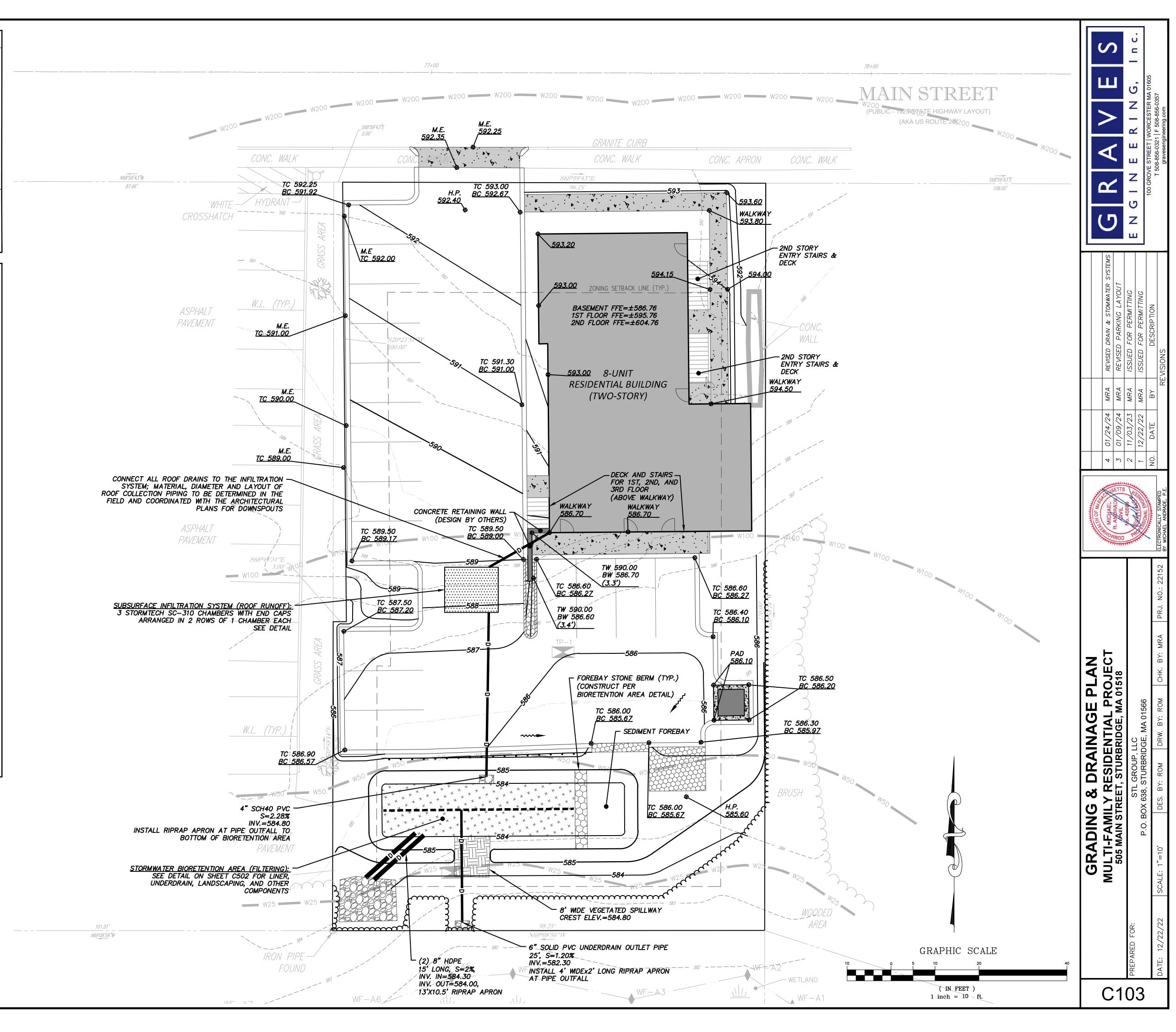
CB = CATCH BASIN

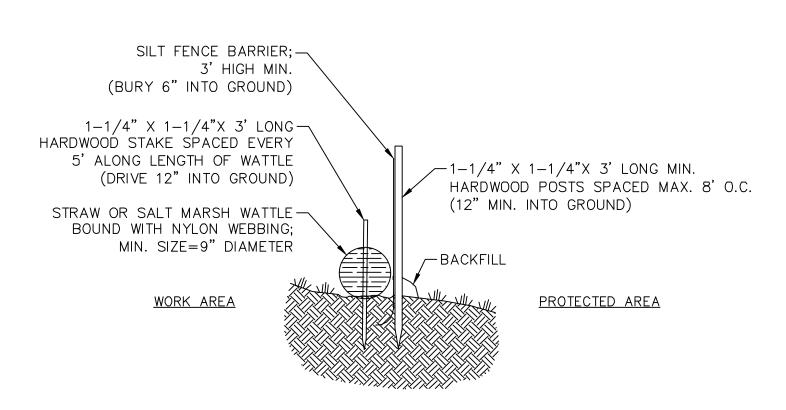
VIF = VERIFY IN FIELD (CONTRACTOR)
TW = TOP OF WALL (FINISH GRADE)

FFE = BUILDING FINISH FLOOR ELEVATION

BW = BOTTOM OF WALL (FINISH GRADE)

- 7) SITE SOILS PER USDA-NRCS WEB SOIL SURVEY ARE POOTATUCK FINE SANDY LOAM (MAP UNIT 2A), AND CANTON FINE SANDY LOAM (MAP UNIT 420B). ON-SITE SOIL TESTING WAS CONDUCTED ON DECEMBER 8, 2022. SEE LOG THIS SHEET.
- 8) ALL NEW PAVEMENT AND CONCRETE SURFACES SHALL BE CONSTRUCTED TO PROPOSED GRADES AS SHOWN AND SHALL BE SMOOTH AND UNIFORM ELIMINATING DEFORMITIES, DEPRESSIONS, PUDDLES, AND TRIP HAZARDS. PROVIDE POSITIVE DRAINAGE ON ON ALL NEW PAVEMENT AND CONCRETE SURFACES, AWAY FROM BUILDINGS, AND TO EXISTING CATCH BASINS, OUTFALLS OR OTHER COLLECTION POINTS.
- 9) UNLESS NOTED OTHERWISE, PROPOSED WALKWAYS SHALL HAVE RUNNING (LONGITUDINAL) SLOPES NO GREATER THAN 4.5%. CROSS SLOPES OF WALKWAYS SHALL BE PITCHED TO DRAIN BUT NO MORE THAN 1.5%. NEW WALKWAYS SHALL MATCH (BE FLUSH WITH) EXISTING ELEVATIONS WHERE SHOWN OR NOTED WITH CHANGES IN LEVELS (ELEVATIONS) NO GREATER THAN 1/4-INCH, AND WITH FINISH GRADES OF EXISTING AND PROPOSED BIT. WALKS, CONCRETE PADS, ETC.
- 10) UTILITY MATERIALS, CONSTRUCTION, AND TESTING SHALL COMPLY WITH TOWN OF STURBRIDGE STANDARDS.

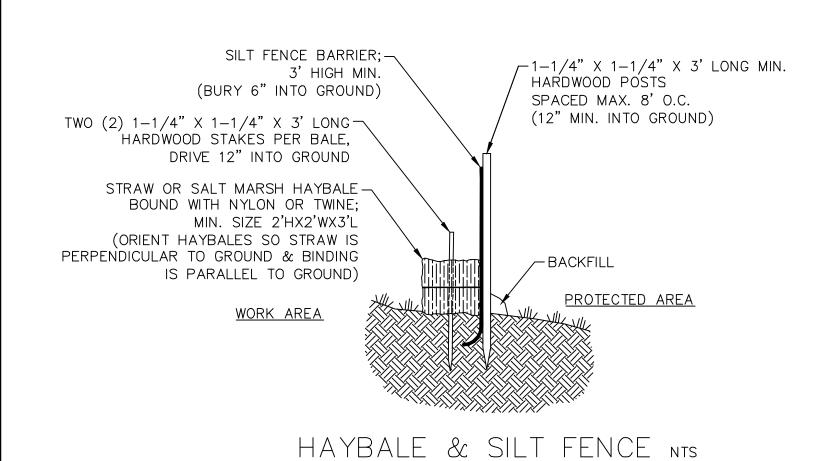




STRAW WATTLE & SILT FENCE NTS

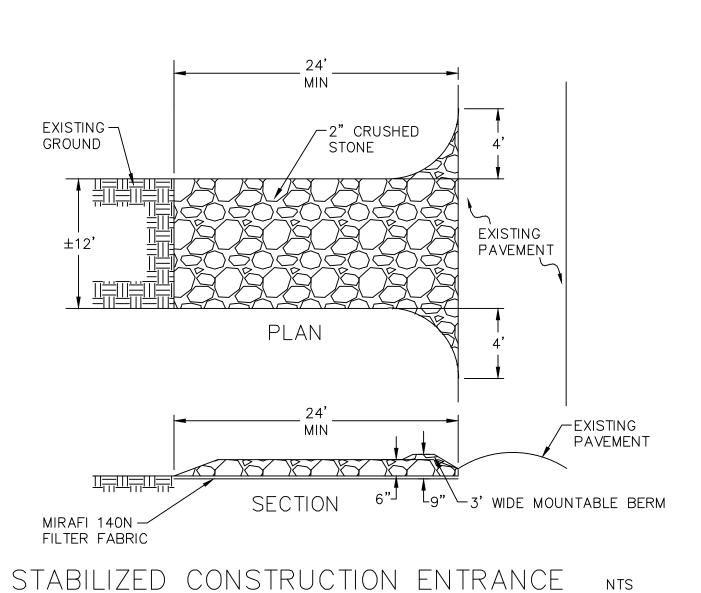
NOTE:

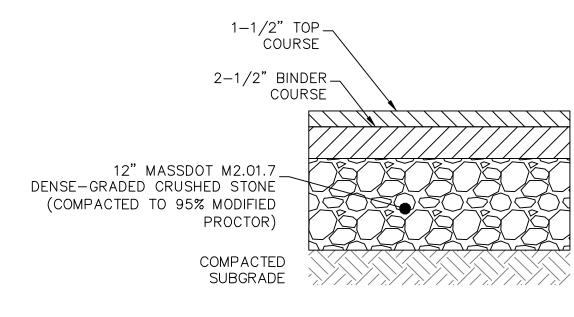
1) PROVIDE A 3' TO 6' LEVEL AREA BETWEEN THE WATTLE AND THE TOE OF ANY SLOPE TO PROVIDE AREA FOR SEDIMENT ACCUMULATION.



NOTE:

1) PROVIDE A 3' TO 6' LEVEL AREA BETWEEN THE HAYBALE AND THE TOE OF ANY SLOPE TO PROVIDE AREA FOR SEDIMENT ACCUMULATION.





PAVEMENT SECTION

PARKING

SIGN NTS

1) THIS DETAIL APPLIES TO THE CONSTRUCTION OF ALL

SHALL BE MOUNTED DIRECTLY BELOW PRIMARY SIGN.

PROPOSED SIGNS; (SIGN TYPE AND DIMENSIONS MAY VARY

FROM THOSE SHOWN). HANDICAP VAN ACCESSIBLE PLACARD

EROSION CONTROL MATTING -

BY THE MANUFACTURER

EROSION CONTROL BLANKET

SLOPE STABILIZATION

1) EROSION CONTROL MATTING (BLANKETS) SHALL BE INSTALLED ON ALL FINISHED SLOPES

2) INSTALLATION SHALL STRICTLY FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND

3) UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS FOR A PARTICULAR LOCATION AND

STABILIZATION ARE: SC150 BY NORTH AMERICAN GREEN, CURLEX II BY AMERICAN EXCELSIOR COMPANY, OR LANDLOK C2 BY PROPEX (OR ENGINEER APPROVED EQUAL).

APPLICATION, ACCEPTABLE EROSION CONTROL BLANKETS FOR GENERAL SLOPE

SHOWN EQUAL TO OR EXCEEDING A 3:1 SLOPE (33.5%).

TOP OF SLOPE -

MATTING SOIL

MANUFACTURER'S RECOMMENDATIONS

- SEED (OR HYDROSEED) AND

6" LOAM BELOW THE MATTING

ANCHOR PER

(BLANKET); INSTALL IN THE ORIENTATION, WITH OVERLAPS

AND WITH SECURING MATERIALS (STAPLES, ETC.) AS REQUIRED

7' IF IN WALKWAY

30" MIN.

MOUNT SIGN WITH TWO -

5/16" x 2" LG. S.S.

HEAVY-DUTY STEEL -

U-CHANNEL POST

(BLACK ENAMEL),

HOLES AT 1" O.C

TOP OF SIDEWALK-

CONCRETE BASE

3,000 PSI-

EXTEND MATTING 12" \

OF SLOPE OR MORE

MANUFACTURER

MINIMUM BEYOND TOE

AS REQUIRED BY THE

INSTRUCTIONS.

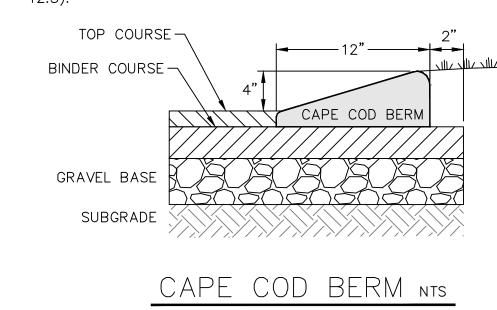
NOTES:

OR FINISH GRADE

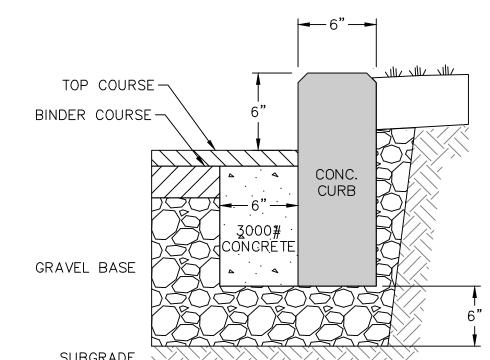
BOLTS, LOCK WASHERS, AND PLASTIC WASHERS

PRE-DRILLED W/ 3/8"

- 1) TAMP ALL ASPHALT EDGES THAT ABUT LAWN, LANDSCAPED OR OTHER SOFT SURFACE.
- 2) <u>BINDER COURSE:</u> MASSDOT M3.11.03, TABLE A, "HMA INTERMEDIATE COURSE DENSE BINDER" OR SUPERPAVE INTERMEDIATE COURSE - 19.0MM (MIXTURE DESIGNATION SIC - 19.0).
- 3) <u>TOP COURSE:</u> MASSDOT M3.11.03, TABLE A, "SURFACE COURSE STANDARD TOP" OR SUPERPAVE SURFACE COURSE - 12.5MM (MIXTURE DESIGNATION SSC - 12.5).



1) BERM SHALL BE LAID ON BINDER COURSE AND KEYED INTO TOP COURSE.



PRECAST CONCRETE CURB NTS

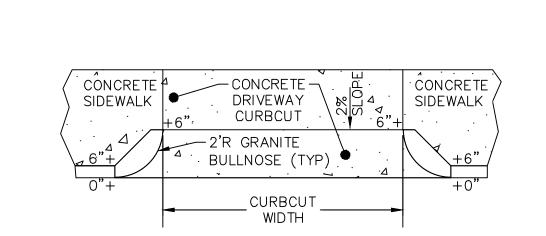
┌─6"X6" - W2.9 X W2.9 WELDED

WIRE MESH 2" CLEAR SPACING

FROM ALL EDGES OF WALKWAY

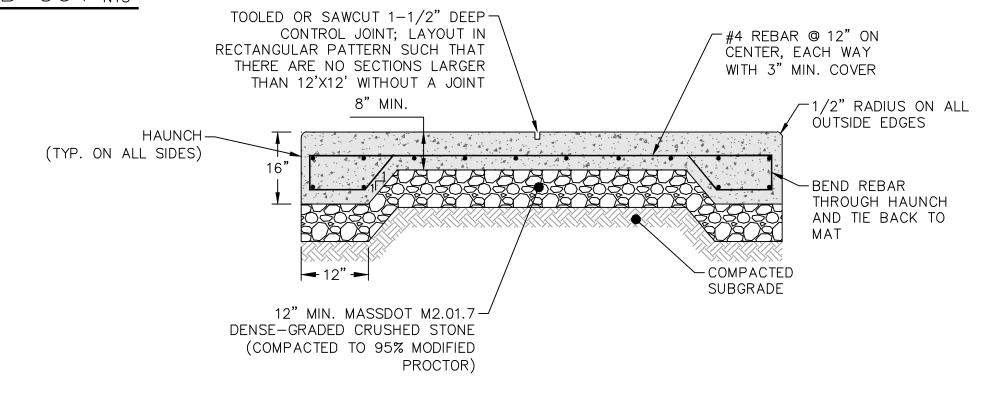
(6" ACROSS CURB CUTS)

-4" THICK CONCRETE



NOTE:

BULLNOSE CURB CUT NTS



CONCRETE PAD-HEAVY DUTY NTS

- 3) OMIT THE HAUNCH WHEN ABUTTING ANOTHER HARD SURFACE SUCH AS EXISTING CONCRETE (BITUMINOUS IS NOT A HARD SURFACE).
- 4) WHEN THE PAD ABUTS A STRUCTURE OR EXISTING HARD SURFACE (CONCRETE, ETC,), INSTALL AN EXPANSION JOINT ACROSS THE ENTIRETY OF THE ABUTTING FACE WITH PREFORMED FIBER JOINT FILLER AND FILL WITH 1" DEEP OF POLYURETHANE JOINT SEALANT.

8" MASSDOT M1.03.0-TYPE B GRAVEL BASE (COMPACTED TO 95% MODIFIED PROCTOR) COMPACTED SUBGRADE CONCRETE WALKWAY NTS

SEALED EXPANSION JOINT -

WITH JOINT FILLER AND

SEALANT AT 20' O.C.

NOTES:

1/8" WIDE, 1-INCH-

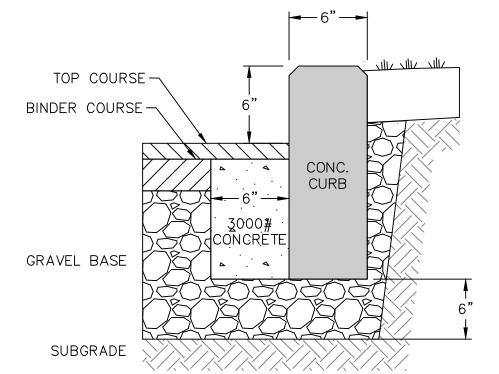
DEEP TOOLED OR

JOINT AT 5' O.C.

(TYP.)

SAWCUT CONTRACTION

- 1) CONCRETE MIX DESIGN SHALL BE FOR EXTERIOR USE; AIR-ENTRAINED, 4,000 PSI MIN. (28-DAY), 3/4" AGGREGATE.
- 2) WHEN THE WALKWAY ABUTS A STRUCTURE OR EXISTING HARD SURFACE (CONCRETE, ETC,), INSTALL AN EXPANSION JOINT ACROSS THE ENTIRETY OF THE ABUTTING FACE WITH PREFORMED FIBER JOINT FILLER AND FILL WITH 1" DEEP OF POLYURETHANE JOINT SEALANT.
- 3) WALKWAYS SHALL HAVE A LIGHT BROOM FINISH PERPENDICULAR TO THE DIRECTION OF FOOT TRAFFIC. THERE SHALL BE NO SMOOTHED TOOL JOINTS; BROOM FINISH SHALL EXTEND TO THE EDGES OF THE PAD AND ACROSS ANY JOINTS.



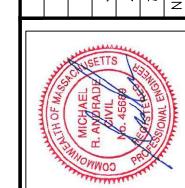
NOTES:

- 1) THIS DETAIL APPLIES TO THE PROPOSED DUMPSTER PAD.
- 2) CONCRETE MIX DESIGN SHALL BE FOR EXTERIOR USE; AIR-ENTRAINED, 4,000 PSI MIN. (28-DAY), 3/4" AGGREGATE.

- 5) PAD SHALL HAVE A MEDIUM BROOM FINISH. THERE SHALL BE NO SMOOTHED TOOL JOINTS; BROOM FINISH SHALL EXTEND TO THE EDGES OF THE PAD AND ACROSS ANY JOINTS.

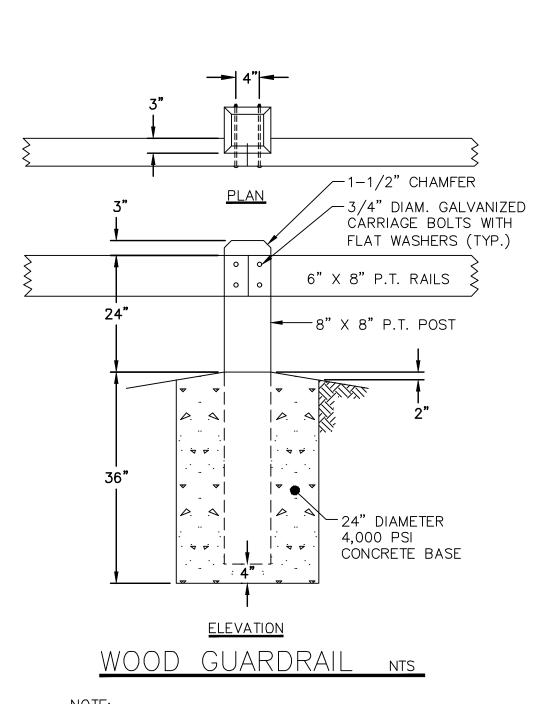


4 W 0 -



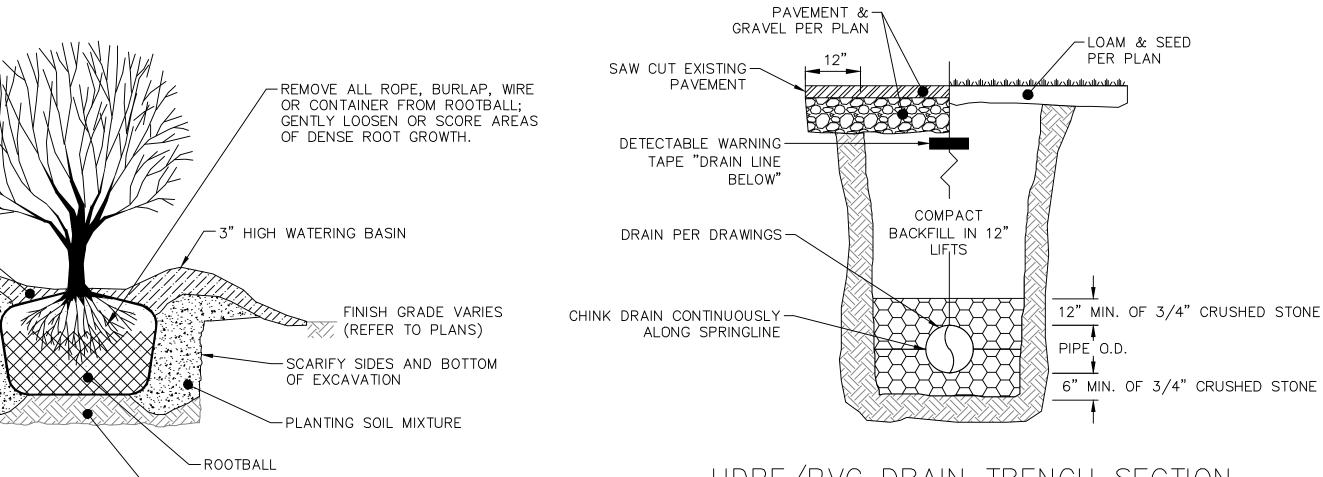
DETAIL RESIDENT ET, STURBRIE

C501



1) POST SPACING SHALL BE 8'-0" ON CENTER.

3" MULCH LAYER --RUBBER HOSE TREE WRAP -→ GUY WIRE (3 PER TREE) REMOVE WIRE AND BURLAP-TENSION TWIST FROM THE TOP 1/3 OF (1 PER GUY WIRE) THE ROOTBALL TREE STAKE -∕2" MULCH LAYER (TYP. OF 3) WATERING BASIN FINISH GRADE VARIES (REFER TO PLANS) SCARIFY SIDE OF EXCAVATION -BACKFILL MIX 1'-0" DRAINAGE FILL LAYER OVER PIT BOTTOM FOR TREE LEVELING MOUND



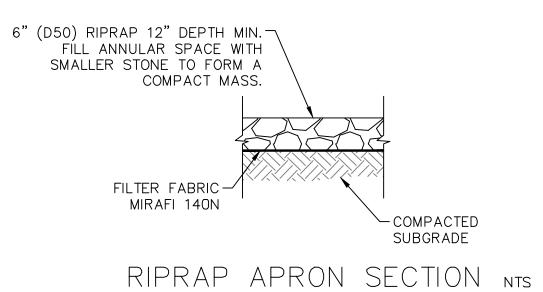
HDPE/PVC DRAIN TRENCH SECTION NTS

NOTES:

- 1) BACKFILL SHALL BE AN AASHTO CLASS III SOIL; EITHER TRENCH SPOILS OR AN IMPORTED SAND AND GRAVEL WITH FINES AND COMPACTED TO 90% OF THE PROCTOR DENSITY.
- 2) BACKFILL OF HDPE PIPE SHALL CONFORM TO ASTM D2321 AND/OR MANUFACTURER'S SPECIFICATIONS.

TREE PLANTING NTS

- 1) SET TREE ROOT CROWN 2" ABOVE FINISH GRADE.
- 2) DO NOT PLACE SOIL OVER ROOTBALL.
- 3) A 6-FOOT DIAMETER BARK MULCH BED WITH A DEPTH OF 3 INCHES SHALL BE PLACED AROUND THE TRUNK OF EACH PROPOSED TREE.
- 4) ALL PLANTINGS SHALL BE WATERED AND FERTILIZED AS NECESSARY UNTIL ESTABLISHED. THE CONTRACTOR SHALL INSTALL A SLOW-RELEASE WATERING BAG AT EACH TREE PLANTING AND MAINTAIN THE BAG FILLED WITH WATER UNTIL FINAL COMPLETION.
- 5) TREES SHALL BE SUPPORTED BY TEMPORARY STAKING AS NECESSARY UNTIL ESTABLISHED.

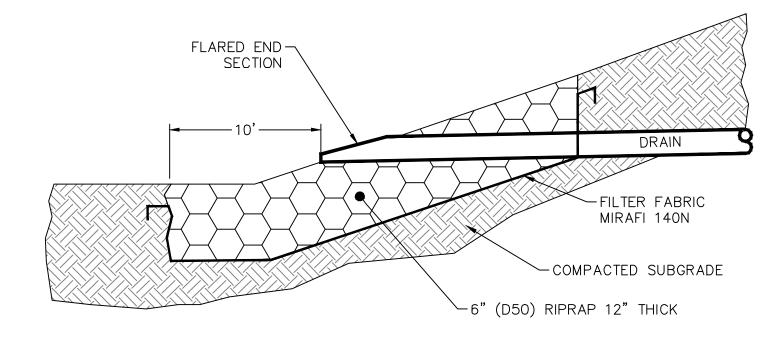


-EXISTING SUBGRADE

SHRUB PLANTING NTS

1) SET SHRUB ROOT CROWN FLUSH TO 2" HIGHER THAN FINISH GRADE.

1) THIS DETAIL APPLIES TO ALL SPECIFIED RIPRAP APPLICATIONS.



RIPRAP OUTLET DETAIL NTS

INCHES; CLAY CONTENT LESS THAN 5%, pH BETWEEN 5.5 AND 6.5. 4. SOIL MIX SAND COMPONENT SHALL BE GRAVELLY SAND MEETING ASTM D422 AS FOLLOWS:

TOPSOIL, AND 30-40% COMPOST.

3/4" 70-100 50-80 15 - 40

5. SOIL MIX TOPSOIL COMPONENT SHALL BE SANDY LOAM, LOAMY SAND OR LOAM TEXTURE. COMPOST COMPONENT SHALL BE PROCESSED YARD WASTE IN COMPLIANCE WITH MASSDEP GUIDELINES AND NOT CONTAIN BIOSOLIDS.

STORMWATER BIORETENTION AREA NOTES

PLANTINGS WITHIN THE BIORETENTION AREA MAY BE SUBSTITUTED WITH MORE READILY AVAILABLE SPECIES

2. BIORETENTION SOIL MIX SHALL BE A MIX OF SAND, COMPOST AND SOIL AS FOLLOWS: 40% SAND, 20-30%

3. SOIL MIX MUST BE UNIFORM, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 2

APPROVED BY GRAVES ENGINEERING, INC. ALL PLANT SPECIES MUST BE NATIVE TO MASSACHUSETTS AND A

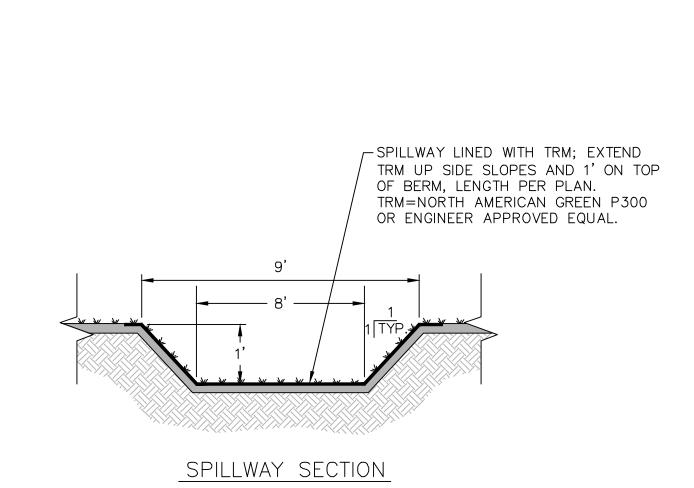
NON-INVASIVE SPECIES. PLANTINGS SHALL BE ARRANGED IN A NATURAL MANNER; ENGINEER SHALL APPROVE A

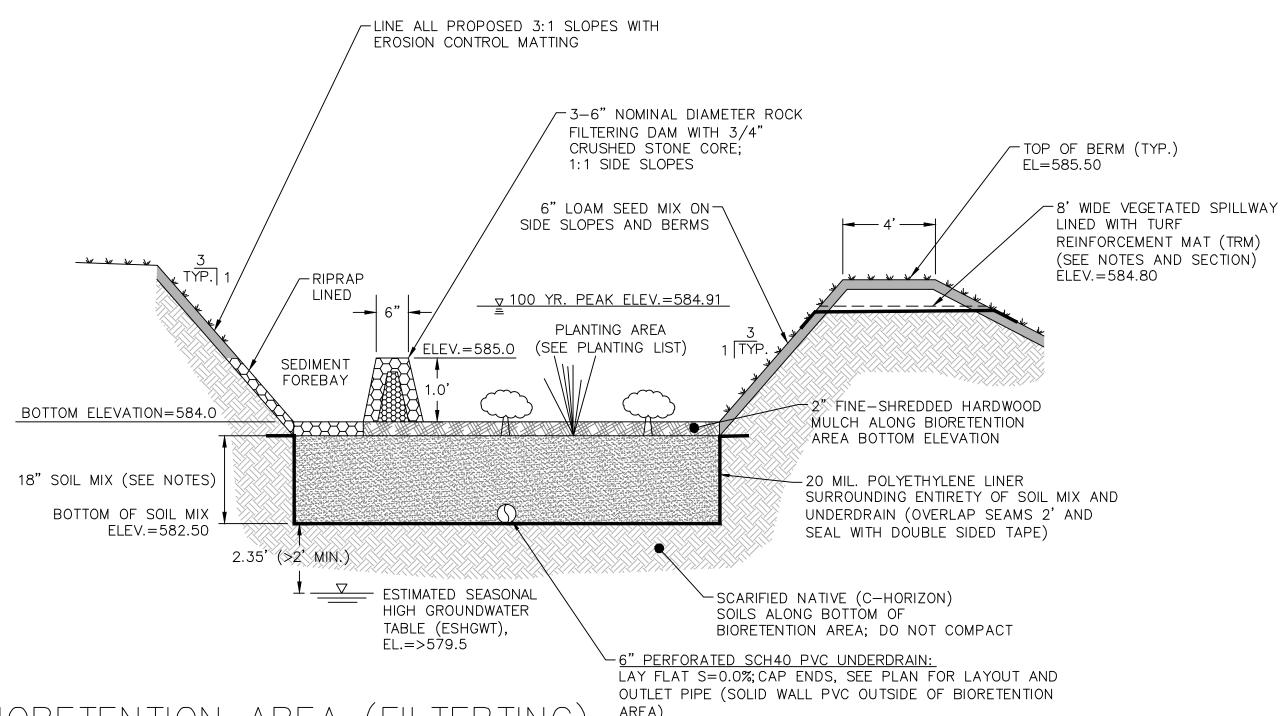
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SOIL TESTING TO VERIFY THE SOIL USED FALLS WITHIN THESE LIMITS.
- 7. SPILLWAY TURF REINFORCEMENT MATTING (TRM) SHALL BE NORTH AMERICAN GREEN MODEL P300, OR ENGINEER APPROVED EQUAL.
- 8. INTERIOR SIDE SLOPES SHALL BE SEEDED WITH NEW ENGLAND WETLAND PLANTS "EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES" OR AN ENGINEER APPROVED EQUAL.
- 9. THE TERM "BIORETENTION AREA" IS SYNONYMOUS WITH THE TERM "RAIN GARDEN".

PLANTING PLAN PREPARED BY THE CONTRACTOR PRIOR TO PLANTING.

ST	STORMWATER BIORETENTION AREA PLANTING LIST							
CODE	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTES			
GRASSES	GRASSES							
PV	3	PANICUM VIRGATUM	SWITCH GRASS	2 GAL.	18" O.C.			
PA	3	PENNSETUM ALOPECUROIDES	FOUNTAIN GRASS	2 GAL.	18" O.C.			
PERENNIAL	_S			•				
ATU	15	ASCLEPIAS TUBEROSA	2 GAL.	24" O.C.				
ER	15	ECHINOPS RITRO	GLOBE THISTLE	1 GAL.	18" O.C.			
ATR	15	ANAPHALIS TRIPLINERVIS	PEARLY EVERLASTING	1 GAL.	18" O.C.			
SHRUBS	SHRUBS							
IV	3	ITEA VIRGINICA	VIRGINICA VIRGINIA SWEETSPIRE		B&B			
VD	3	VIBURNUM DENTATUM	ARROWWOOD	3 GAL.	B&B			
Al	3	ALNUS INCANA	SPECKLED ADLER	#2 CONT.	CONT.			

BIORETENTION ARE	TA & FOREBAY ELE	VATION SCHEDULE	
	FOREBAY	BIORETENTION AREA	
TOP OF BERM ELEV.	585.00	585.50	
BOTTOM ELEV.	584.00 584.00		
100 YR. PEAK ELEV.	_	584.88	
SPILLWAY ELEV.	_	584.80	
BOTTOM OF SOIL MIX	_	581.85	

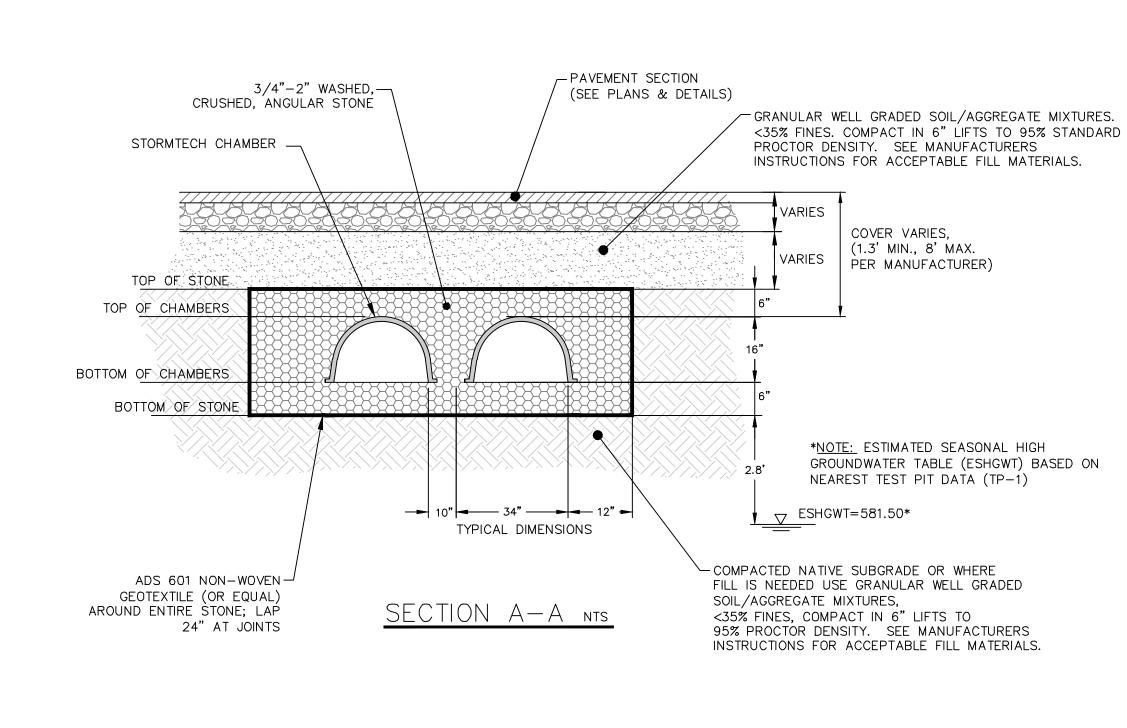


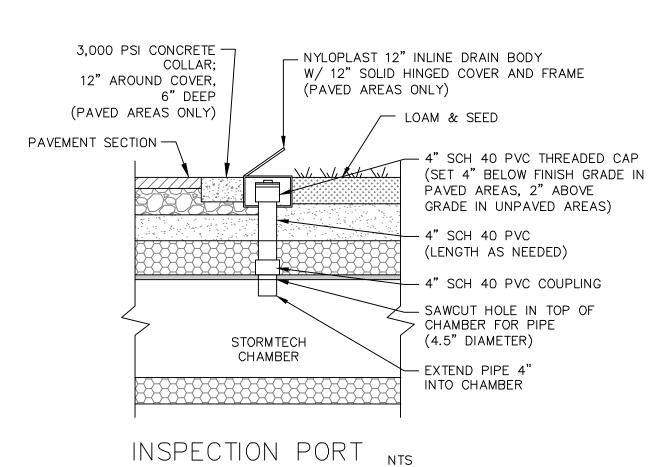


STORMWATER BIORETENTION AREA (FILTERTING)

C502

4 W 01 -





3 STORMTECH SC-310 CHAMBERS ARRANGED 2 ROWS OF 1 CHAMBERS LONG AND
6 STORMTECH SC-310 END CAPS
INSTALLED WITH 6" COVER STONE & 6" BASE STONE & 10" ROW SPACING

SYSTEM LAYOUT NTS

→ ±12.2' STONE —

→ SCH40 PVC INLET FROM ROOF

- LIMIT OF CRUSHED STONE

DRAINS

— SC−310 CHAMBER

(SEE SECTION)

- SC-310 CHAMBER

END CAP

(TYP.)

4"OUTLET

TO OUTFALL

(TYP.)

6" SCH 40 PVC INLET MANIFOLD -

(SET LEVEL), PROVIDE PVC

INSPECTION PORT -

FITTÍNGS AS SHOWN

4" SDR35 PVC OUTLET MANIFOLD

(SET LEVEL), PROVIDE PVC

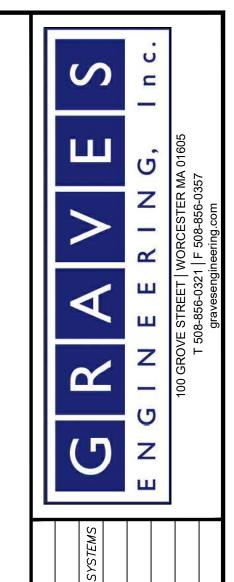
WITH 4" PVC ROW CONNECTORS

FITTÍNGS AS SHOWN

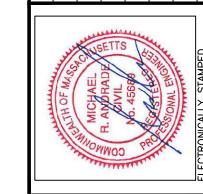
WITH 6" PVC ROW CONNECTORS

PROPOSED ELEVATIONS				
COMPONENT	ELEVATION			
MAX. GRADE OVER CHAMBERS	588.9 (2.8' COVER)			
MIN. GRADE OVER CHAMBERS	587.8 (1.7' COVER)			
TOP OF STONE	586.63			
TOP OF CHAMBERS	586.13			
6" MANIFOLD INLET	585.63			
4" OUTLET MANIFOLD	585.63			
BOTTOM OF CHAMBERS	584.80			
BOTTOM OF STONE	584.30			

SUBSURFACE INFILTRATION SYSTEM



		01/24/24 MRA REVISED DRAIN & STOMWATER	01/09/24 MRA REVISED PARKING LAYOUT	11/03/23 MRA ISSUED FOR PERMITTING	12/22/22 MRA ISSUED FOR PERMITTING	DATE BY DESCRIPTION	REVISIONS
		4	3	7	1	NO.	
, marrana							



SITE DETAILS - 3

MULTI-FAMILY RESIDENTIAL PROJECT
505 MAIN STREET, STURBRIDGE, MA 01518

STL GROUP, LLC
P.O. BOX 638, STURBRIDGE, MA 01566

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