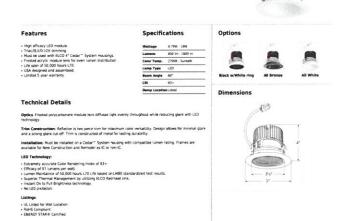




4" LED Light Engine with Baffle Trim

the perfect lighting solution for high-end residential and light commercial project

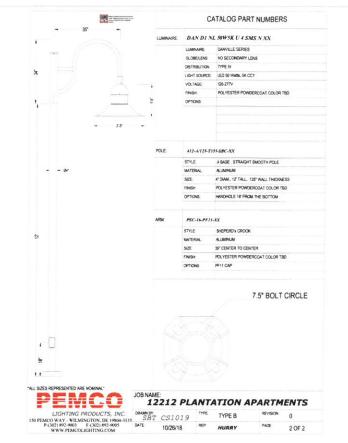
ELCO Lighting



ELCO 4' Bathw	Luners	Copper Terror.	Feigh	
E414C				
	68 850 Im	27 2700K	W All White	
	12 1250 im	30 3000K	8Z All Bronze	
	18 1600 im	35 3500K	B Black withter Ring	
		40 4000K		
		SD Surset		

3 TYPE "C" - DOWNLIGHT





2 TYPE "B" - POLE LIGHT NO HOUSE SIDE SHIELD

SCALE: NTS



CUT SHEET

CUT SHEET



ASSOCIATES
IAMSCAF ARCHITCLIBE AND PLANNING
144 Moody Street, Building 4
Waithour, MA 02453-5332





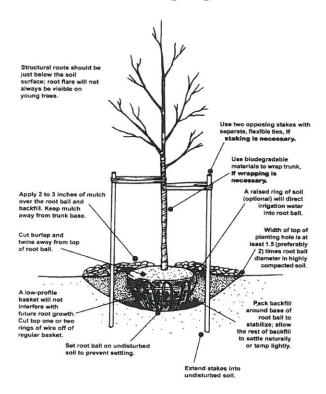
PLANTATION
APARTMENTS II

LIGHTING CUT SHEETS

| ISSUED | 07-07-17 | Revision | 2 07-18-17 | Revision | 3 08-08-17 | Revision | 4 09-07-17 | Revision | 5 10-05-18 | Revision | 6 10-26-18 | Revision |

L-2.1

Tree Planting Diagram



Town of Stow Rules and Regulations Governing the Subdivision of Land

Page 98



SECTION

ASSOCIATES LANDSCAPE ARCHITECTURE AND PLANNING





PLANTATION
APARTMENTS II
22 JOHNSTON WAY
STOW, MA

LANDSCAPE DETAILS SCALE: VARIES

07-07-17 Revision
07-18-17 Revision
09-07-17 Revision
10-05-18 Revision

L-3.0

SITE CONSTRUCTION PLAN

PLANTATION APARTMENTS II

LEGEND

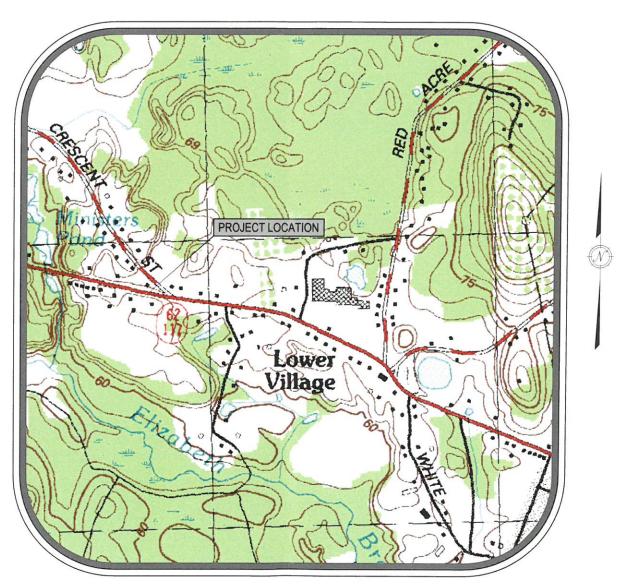
SHEET INDEX

EXIST. FEATURE	DESCRIPTION	EXIST. SYM.	DESCRIPTION
	STREAMS/RIVERS	\$	LIGHT POLE
	WE TLANDS	9	TELEPHONE POLE
	LIMIT OF BUFFER ZONE	Ū	GUY WIRE
LEDGE	LEDGE	H	HYDRANT
	WELL RADIUS	(S)	SEWER MANHOLE
xx	WRE FENCE	1000	
	WOOD FENCE	0	STORM WATER MANHOLE
шш	GUARD RAIL	€	WELL
• •	CHAIN LINK FENCE	0	MISCELLANEOUS MANHOLE
	STONE RETAINING WALL	111	WETLAND FLAG
200000000	STONE WALL	WF AT	
	WATER LINE		CATCH BASIN
E	ELECTRICAL LINE	M	WATER GATE VALVE
o	STORM DRAIN	E	ELECTRICAL METER
ow	EXISTING OVER-HEAD WIRES	TS	TRAFFIC SIGNAL SWITCH
180_	EXISTING CONTOUR (INDEX)	Š	SIGN
		7	ELECTRICAL TRANSFORMER
179	EXISTING CONTOUR (INTERMEDIATE)	TRANS	ELECTRICAL INVISEDABLE
anny many	EXISTING BUILDING/HOUSE	B	FLAG POLE
	EXISTING BUILDING/HOUSE	S3	SHRUB
TREE LINE	TREE LINE		
ROP. FEATURE	DESCRIPTION	PROP. SYM.	DESCRIPTION
	REPLICATED WETLANDS	** ===	PROPOSED LIGHT POLE
-11	PROPERTY LINE	ę	PROPOSED TELEPHONE POLE
	EASEMENT UNE	<u></u>	PROPOSED HYDRANT
	HAYBALES	©SMH-1	
xx	WRE FENCE	(e)	PROPOSED SANITARY MANHOLE
	WOOD FENCE	©DMH-1	PROPOSED STORM WATER MANHOLE
• •	CHAIN LINK FENCE	Ø	PROPOSED TELEPHONE MANHOLE
RET. WALL (CONC.)	POURED CONCRETE RETAINING WALL	Ø	PROPOSED ELECTRICAL MANHOLE
RET. WALL (BLOCK)	CONC. BLOCK RETAINING WALL	©C8-1	PROPOSED CATCH BASIN
RET. WALL (STONE)	STONE RETAINING WALL	©DC8−1	PROPOSED DOUBLE CATCH BASIN
w	PROPOSED WATER LINE		
— Е ——	PROPOSED ELECTRICAL LINE	₫v	PROPOSED WATER GATE VALVE
s	PROPOSED SANITARY SEWER	T	PROPOSED ELECTRICAL TRANSFORMER
	PROPUSED SAMPART SENER		
—— О ———	PROPOSED STORM DRAIN	Ē	PROPOSED ELECTRICAL JUNCTION BOX
D		_	PROPOSED ELECTRICAL JUNCTION BOX PROPOSED TRAFFIC SIGNAL SWITCH
RD	PROPOSED STORM DRAIN	E	PROPOSED TRAFFIC SIGNAL SWITCH
RD	PROPOSED STORM DRAIN PROPOSED ROOF DRAIN	E TS	PROPOSED TRAFFIC SIGNAL SWITCH PROPOSED SIGN
RD	PROPOSED STORM DRAIN PROPOSED ROOF DRAIN PROPOSED UNDER DRAIN	E	PROPOSED TRAFFIC SIGNAL SWITCH
	PROPOSED STORM DRAIN PROPOSED ROOF DRAIN PROPOSED UNDER DRAIN PROPOSED BACK CAPE COD BERM	E TS	PROPOSED TRAFFIC SIGNAL SWITCH PROPOSED SIGN BORING HANDICAPPED SPACE
	PROPOSED STORM DRAIN PROPOSED ROOF DRAIN PROPOSED UNDER DRAIN PROPOSED BACK CAPE COD BERM PROPOSED EDGE OF PAYEMENT	₽ •€	PROPOSED SIGN BORING
RD BCCB	PROPOSED STORM DRAIN PROPOSED WODER DRAIN PROPOSED UNDER DRAIN PROPOSED BACK CAPE COO BERM PROPOSED EDGE OF PAVEMENT PROPOSED UNPAVED ROAD	E	PROPOSED TRAFFIC SIGNAL SWITCH PROPOSED SIGN BORING HANDICAPPED SPACE
R0	PROPOSED STORM DRAIN PROPOSED WODER DRAIN PROPOSED WINDER DRAIN PROPOSED BACK CAPE COO BERM PROPOSED EDGE OF PAVEMENT PROPOSED UNPAVED ROAD PROPOSED CONTOUR (MOEK)	E	PROPOSED TRAFFIC SIGNAL SWITCH PROPOSED SIGN BORING HANDICAPPED SPACE PROPOSED FLARED END SECTION
RO	PROPOSED STORM DRAIN PROPOSED WODER DRAIN PROPOSED WIDDER DRAIN PROPOSED BACK CAPE COO BERM PROPOSED EDGE OF PAVEMENT PROPOSED UNPAVED ROAD PROPOSED CONTOUR (INDEX) PROPOSED CONTOUR (INTERMEDIATE		PROPOSED TRAFFIC SIGNAL SWITCH PROPOSED SIGN BORING HANDICAPPED SPACE PROPOSED FLARED END SECTION PROPOSED RIPRAP
80	PROPOSED STORM DRAIN PROPOSED WINDER DRAIN PROPOSED BACK CAPE COD BERM PROPOSED BACK CAPE COD BERM PROPOSED UNPAVED ROAD PROPOSED UNPAVED ROAD PROPOSED CONTOUR (INDEX) PROPOSED CONTOUR (INTERMEDIATE PROPOSED SPOT ELEVATION		PROPOSED TRAFFIC SIGNAL SWITCH PROPOSED SIGN BORING HANDICAPPED SPACE PROPOSED FLARED END SECTION PROPOSED RIPRAP STANDARD TREE

ABBREVIATIONS

ABB.	DESCRIPTION
ATM	ATMOSPHERIC TANK
UD	UNDERDRAIN
FD	FOUNDATION DRAIN
F.5.	FIRE SERVICE
DOM.	DOMESTIC WATER SERVICE
8.0	WATER BLOW OFF
DMH	DRAIN MANHOLE
SMH	SEWER MANHOLE
ST	SEPTIC TANK
PC	PUMP CHAMBER
DPI	DRAIN PIPE ID
SP1	SEWER PIPE ID
08	DISTRIBUTION BOX
SC	STORMCEPTOR CATCH BASIN
GAL	GALLON
TOF	TOP OF FOUNDATION
EL	ELEVATION
INV.	INVERT
WSO	WATER SHUTOFF
BCCB	BITUMINOUS CAPE COD BERN
RET.	RETAINING WALL
C.O.	CLEAN OUT
INSP T.	INSPECTION PORT

TITLE SHEET



LOCUS MAP

ISSUED FOR PERMIT - NOT FOR CONSTRUCTION

UPDATED SITE LAYOUT

UPDATED SITE LAYOUT

GENERAL NOTES:

1. TOPOGRAPHIC INFORMATION IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY FORESITE ENGINEERING AND SUPPLEMENTED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC IN APRIL 2017, ELEVATIONS REFER TO AN ASSUMED DATUM.

2. PROPERTY LINE AND LOCATION OF EXISTING SITE FEATURES ARE THE RESULT OF A COMPILED PLANS AND A PLAN OF LAND DATED 2013 BY FORESITE ENGINEERING.

3. PROPERTY LINES SHALL BE DETERMINED PRIOR TO CONSTRUCTION OR INSTALLATION OF ANY OF THE PROPOSED IMPROVEMENTS HEREON.

4. ANY DEVIATIONS FROM THE DESIGN PLAN MUST BE APPROVED IN WRITING BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC.

5. CONSTRUCTION MITHIN 100 FEET OF A WEILAND RESOURCE AREA AS DEFINED IN THE MASSACHUSET'S WEILAND PROTECTION ACT AND REGULATIONS (310 CMR 10.00) SHALL NOT BE PEFFORMED UNTIL AN ORDER OF CONDITIONS OR NEGATIVE DETERMINATION OF APPLICABILITY HAS BEEN OBTAINED FROM THE LOCAL CONSERVATION COMMISSION.

6. FEMA 100-YR FLOOD ZONE WAS DETERMINED FROM FLOOD INSURANCE RATE MAP NO. 25017C0361E EFFECTIVE JUNE 4, 2010.

7. EXISTING UITLINES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE PLANS ARE THE SHEE. THE CONTRACTOR SHALL CALL DIG SAFE THE BESENCE CONSTRUCTION IN ACCORDANCE WITH STATE LAWS.

8. THIS PLAN HAS BEEN PREPARED

PREPARED BY **DUCHARME & DILLIS** Civil Design Group, Inc. CIVIL ENGINEERS. LAND SURVEYORS. WETLAND CONSULTANTS

TITLE SHEET
EXISTING CONDITIONS PLAN
RECORD PLAN
LAYOUT PLAN
GRADING & DRAINAGE PLAN
GRADING BETAILS
UTILITIES PLAN
EROSION CONTROL PLAN
WATER SYSTEM PLAN
PRELIMINARY WASTEWATER PLAN

SHEET TITLE

1092 MAIN STREET, P.O. BOX 428 BOLTON, MASSACHUSETTS 01740 PHONE: (978) 779-6091 FAX: (978) 779-026 PLANTATION APARTMENTS II LLC 22 JOHNSTON WAY STOW, MASSACHUSETTS 01775

STOW ELDERLY HOUSING CORP.

22 JOHNSTON WAY STOW, MASSACHUSETTS 01775

SCALE: DPYRIGHT DUCHARME & DILLIS CIVIL DESIGN GROUP, INC 2018

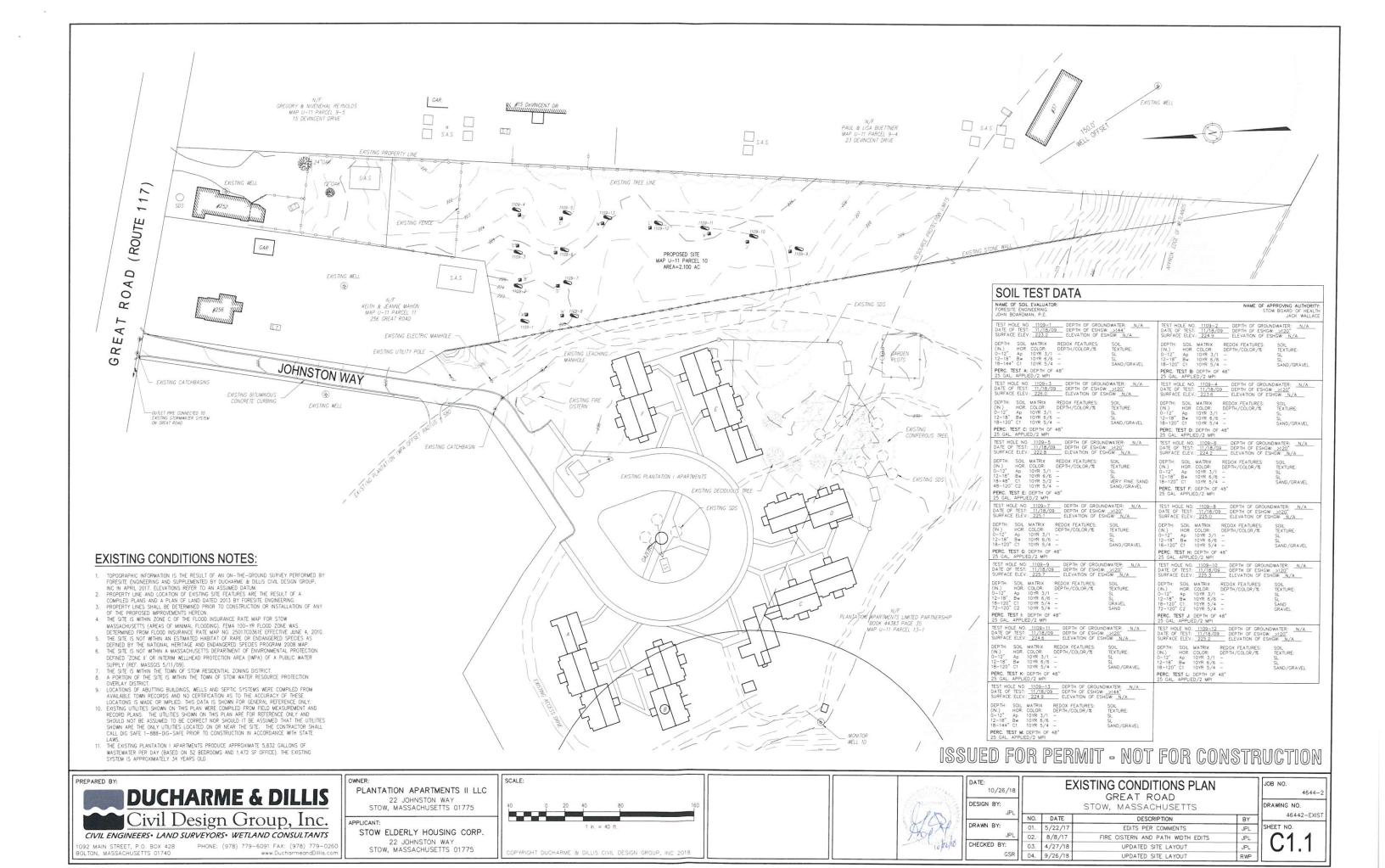


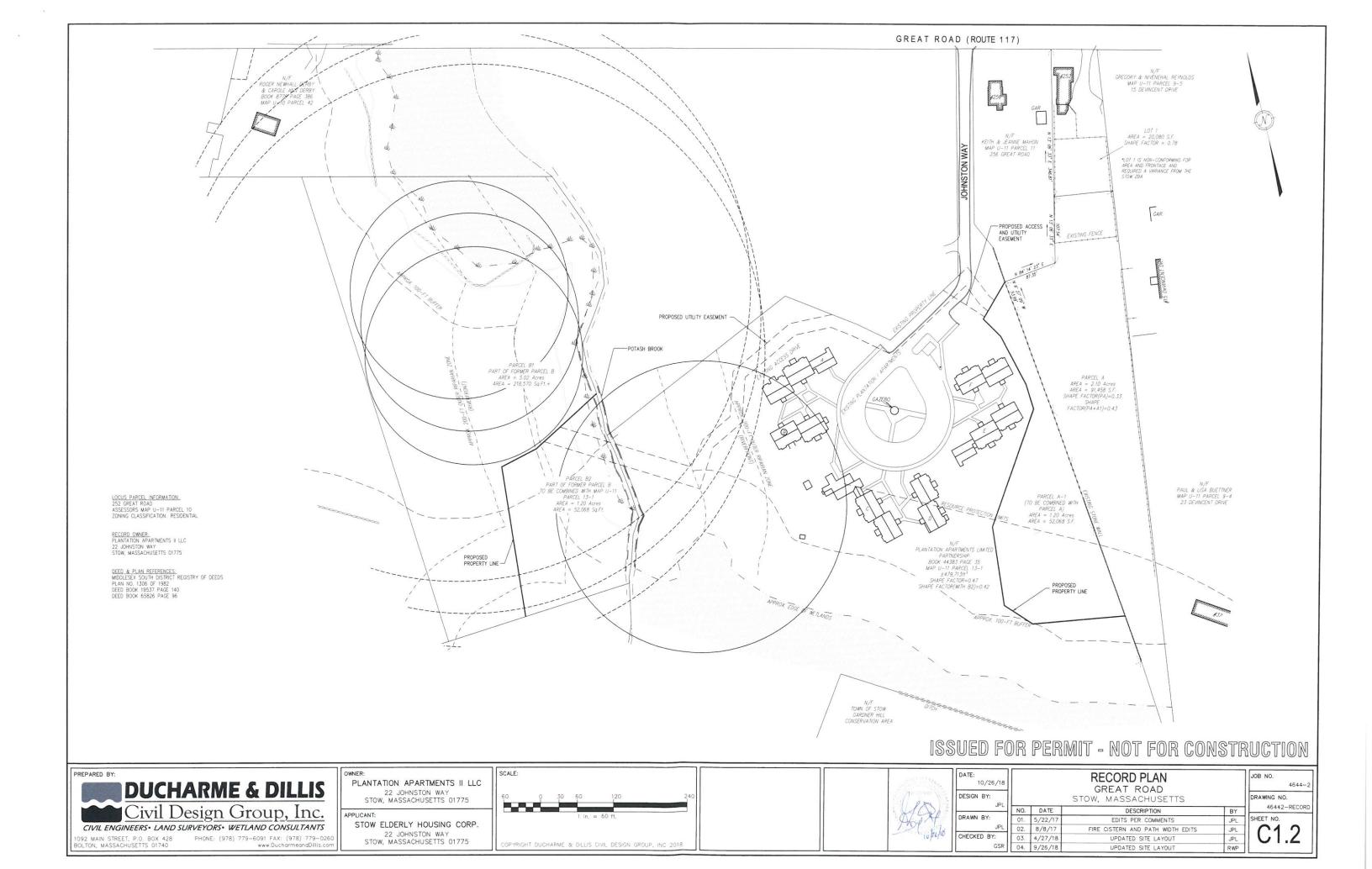
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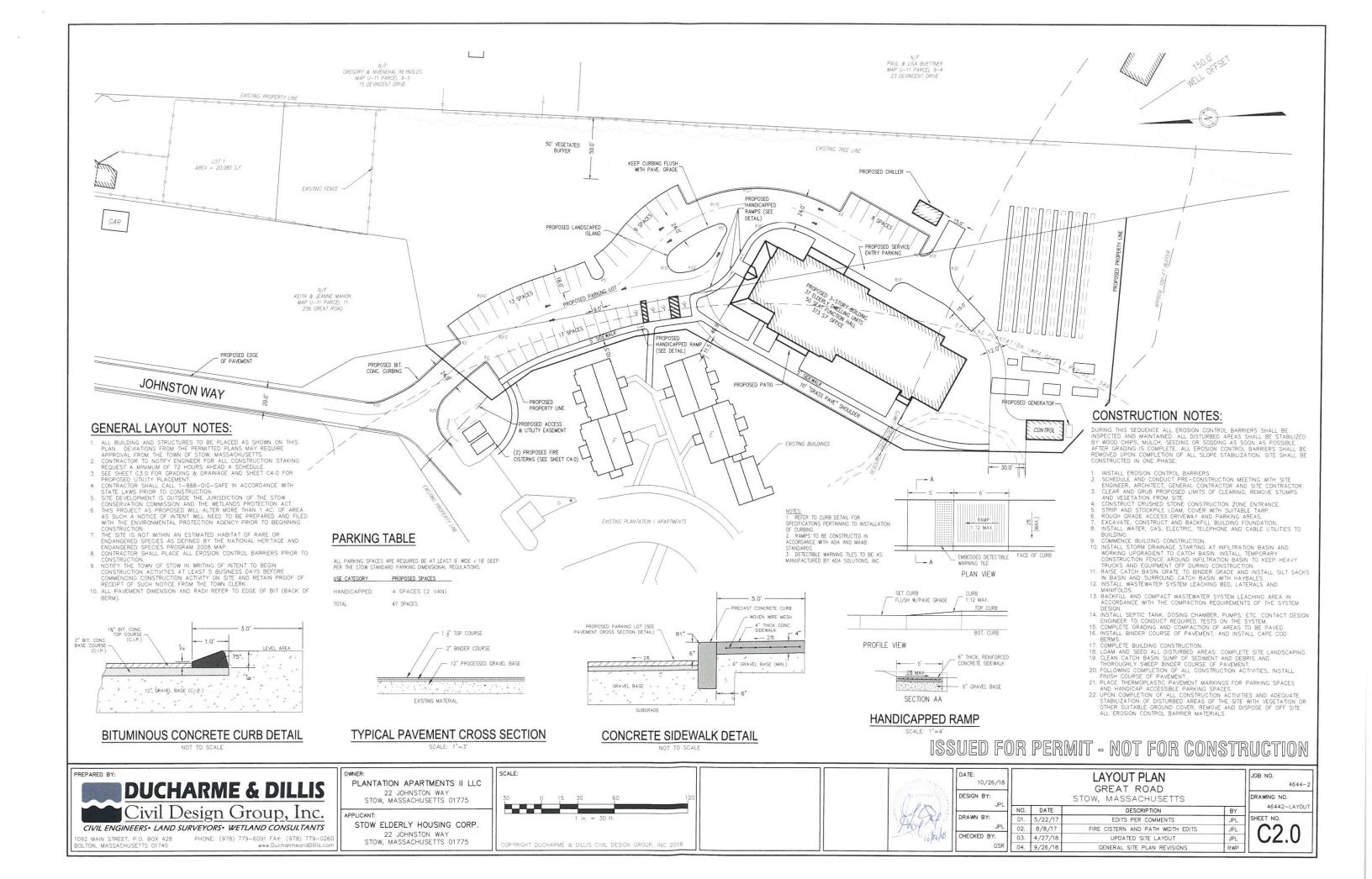
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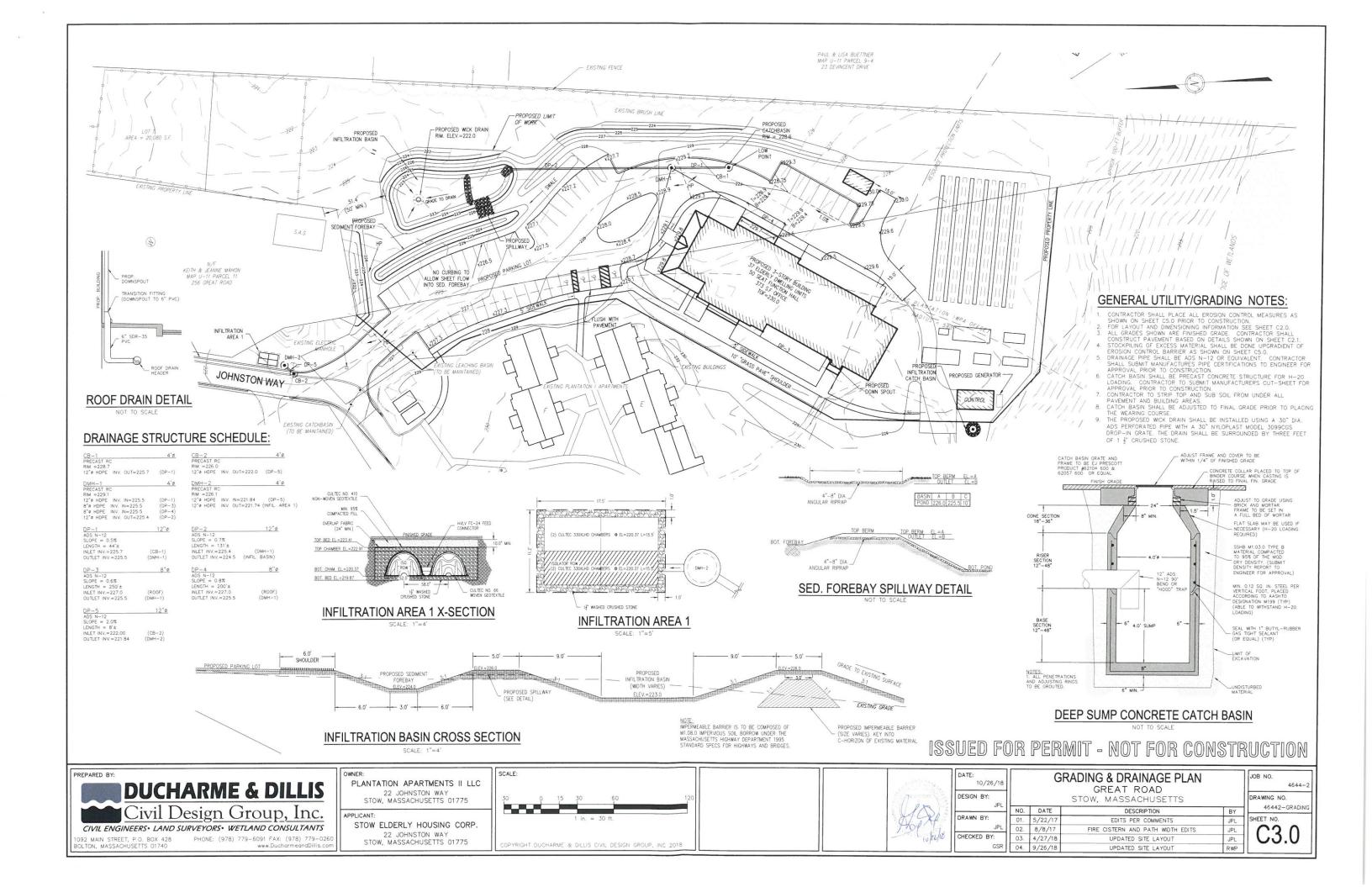
4/27/18

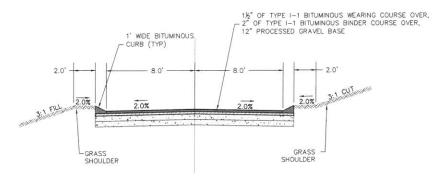
JOB NO. 4644-2 DRAWING NO. 46442-TITI SHEET NO. C1.0



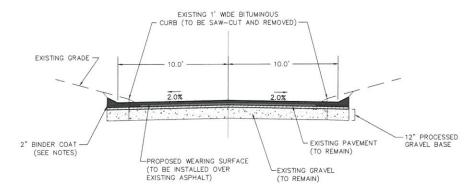








EXISTING JOHNSTON WAY CROSS-SECTION



PROPOSED JOHNSTON WAY CROSS-SECTION

PAVING SPECIFICATIONS

- 1. A BINDER COURSE OF CLASS I, TYPE 1, BITUMINOUS CONCRETE PAVEMENT WITH A ROLLED DEPTH OF TWO INCHES (2"), APPLIED IN TWO COURSES, SHALL BE INSTALLED OVER THE GRAVEL BASE.

 2. THE BINDER COURSE SHALL BE EXPOSED TO ONE WINTER SEASON PRIOR TO THE APPLICATION OF THE WEARING SURFACE.

 3. PRIOR TO INSTALLATION OF THE WEARING SURFACE, THE BINDER SHALL BE SWEPT CLEAN, DRIED IF NECESSARY, AND TREATED WITH AN ASPHALT EMULSION OR TACK COAT TO ENSURE A SATISFACTORY BOND BETWEEN PAVEMENT COURSES.

 4. THE BINDER COURSE SHALL BE TREATED FOR THE FULL WIDTH OF THE ROADWAY WITH A WEARING SURFACE OF 1 1/2 INCHES OF CLASS I, TYPE 1, BITUMINOUS CONCRETE PAVEMENT APPLIED IN
- SURFACE OF 1 1/2 MICHES OF CLASS I, 17PE I, BITOMINOUS CONCRETE PAVEMENT APPLIED IN ONE COURSE.

 5. IN ORDER TO MINIMIZE DAMAGE TO THE WEARING SURFACE, THE WEARING COURSE SHALL NOT BE APPLIED UNTIL ALL CONSTRUCTION ON LOTS SERVED BY THE SUBDIVISION STREETS IS IN THE OPINION OF THE BOARD COMPLETED OR SUBSTANTIALLY COMPLETED.

 6. EXISTING CURB SHALL BE SAW—CUT AND REMOVED. PROPOSED PAVEMENT SHALL BE INSTALLED OVER THE EXISTING ASPHALT AND EXTENDED TO 20' WIDE. (SHOWN ON PROPOSED CROSS—SECTION DETAIL)

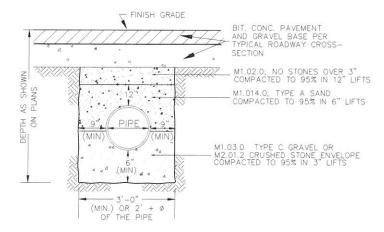
GRATED COVER TO BE INSTALLED AT FINISHED GRADE (EL. = 229.0) FRAME TO BE GRAVEL FILL MAT. COMPACTED TO 95% OF THE MOD. DRY SET IN A FULL BED OF MORTAR - DENSITY. (SUBMIT DENSITY REPORT TO NOTES: 1. ALL PENETRATIONS AND ADJUSTING RINGS TO BE GROUTED. ENGINEER FOR APPROVAL) PRECAST LEACHING BASIN MIRAFI FILTER FARRIC воттом ¾"-½" DOUBLE WASHED STONE

FRAME AND COVER TO BE NEENAH FOUNDRY R-1555 HEAVY DUTY

WITH "DRAIN" IN 3" LETTERING

INFILTRATING CATCH BASIN

NOT TO SCALE



DRAIN PIPE TRENCH DETAIL

ROAD WIDENING DETAIL



PLANTATION APARTMENTS II LLC 22 JOHNSTON WAY STOW, MASSACHUSETTS 01775

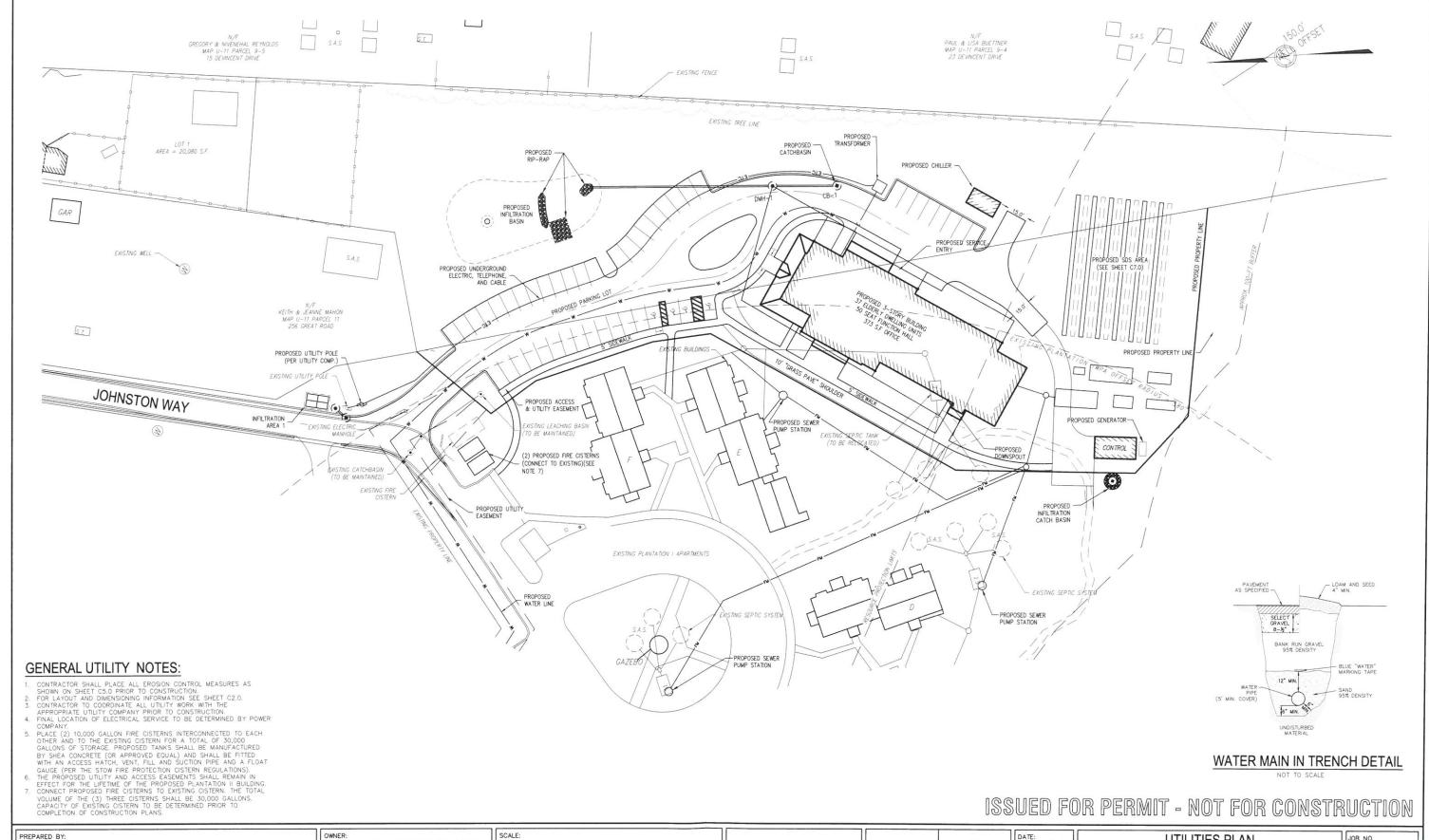
APPLICANT:

STOW ELDERLY HOUSING CORP. 22 JOHNSTON WAY STOW, MASSACHUSETTS 01775



DATE: 10/26/18 DESIGN BY:			GRADING DETAILS SHEET GREAT ROAD STOW, MASSACHUSETTS	
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CHECKED BY: GSR				

JOB NO. 4644-2 DRAWING NO. 46442-GRADIN SHEET NO C3.

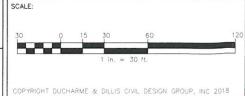




092 MAIN STREET, P.O. BOX 428 BOLTON, MASSACHUSETTS 01740 PHONE: (978) 779-6091 FAX: (978) 779-0260 www.DucharmeandDillis.com PLANTATION APARTMENTS II LLC

22 JOHNSTON WAY STOW, MASSACHUSETTS 01775

STOW ELDERLY HOUSING CORP. 22 JOHNSTON WAY STOW, MASSACHUSETTS 01775

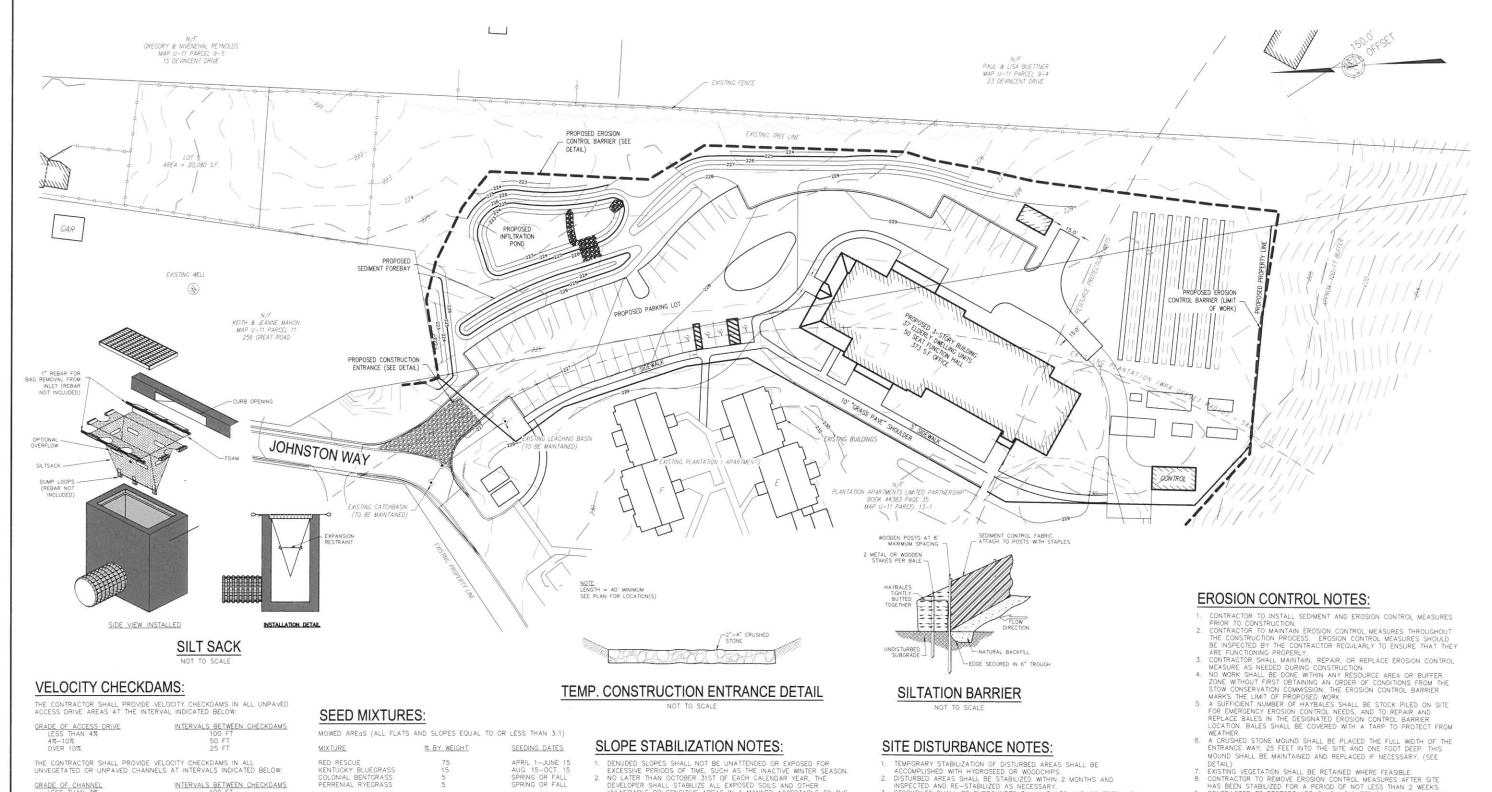




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GSR	04	9/26/18	_

10/26/18	UTILITIES PLAN GREAT ROAD						
DESIGN BY: JPL		STOW, MASSACHUSETTS					
	NO.	DATE	DESCRIPTION	BY			
DRAWN BY:	01.	5/22/17	EDITS PER COMMENTS	JPL			
JPL	02.	8/8/17	FIRE CISTERN AND PATH WIDTH EDITS	JPL			
CHECKED BY:	03.	4/27/18	UPDATED SITE LAYOUT	JPL			
GSR	04.	9/26/18	UPDATED SITE LAYOUT	RWP			

JOB NO. 4644-2 DRAWING NO. 46442-UTILITIES SHEET NO. C4.0



INTERVALS BETWEEN CHECKDAMS

1. CHECKDAMS SHALL BE OF HAYBALES (STAKED IF NECESSARY).
2. CHECKDAMS SHALL BE INSTALLED AT THE END OF EACH WORKING DAY
OF BEFORE STOPPAGE DUE TO RAIN.
3. CHECKDAMS SHALL EXTEND COMPLETELY ACROSS THE GUTTER FLOW
LINES AT RIGHT ANGLES TO THE CENTERLINE.

RED RESCUE KENTUCKY BLUEGRASS COLONIAL BENTGRASS PERRENIAL RYEGRASS APRIL 1-JUNE 15 AUG. 15-OCT. 15 SPRING OR FALL SPRING OR FALL UNMOWED ARES (FLAT SLOPES GREATER THAN 3:1)

MIXTURE % BY WEIGHT SEEDING DATES RED RESCUE KENTUCKY BLUEGRASS COLONIAL BENTGRASS PERRENIAL RYEGRASS APRIL 1-JUNE 15 AUG. 15-OCT. 15 SPRING OR FALL SPRING OR FALL DENUBUR SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS THE INACTIVE WINTER SEASON.

NO LATER THAN OCTOBER 31ST OF EACH CALENDAR YEAR, THE DEVELOPER SHALL STABILIZE ALL EXPOSED SOILS AND OTHER VULNERABLE OR SENSITIVE AREAS IN A MANNER ACCEPTABLE TO THE SITE ENGINEER. NO ADDITIONAL DISRUPTION MAY OCCUR EXCEPT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLAN.

TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS.

THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY UTILIZED.

- MOUND SHALL BE MAINTAINED AND REPLACED IF NECESSARY. (SEE DETAIL)
 7. EXISTING VEGETATION SHALL BE RETAINED WHERE FEASIBLE.
 8. CONTRACTOR TO REMOVE EROSION CONTROL MEASURES AFTER SITE HAS BEEN STABILIZED FOR A PERIOD OF NOT LESS THAN 2 WEEKS.
 9. CONTRACTOR TO RESTORE AREAS AS INDICATED ON THE PLAN WITHIN 1-WEEK OF COMPLETION OF FINAL GRADING. CONTRACTOR TO MAINTAIN RESTORED AREAS DURING CONSTRUCTION.
 10. CONTRACTOR SHALL ENSURE THE GROWTH OF ALL PLANTINGS SUCH AS GRASS AND OTHER RESTORATION ITEMS. CONTRACTOR SHALL PROVIDE WATER, FERTILIZER AND OTHER MEANS AS NEED TO ENSURE PROPER GROWTH OF ALL RESTORATION ITEMS.

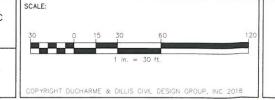
INSPECTED AND RE-STABILIZED AS NECESSARY.
STOCKPILES SHALL BE SURROUNDED BY HAYBALES AND COVERED WITH TARPS OR EROSION CONTROL BLANKETS AT THE END OF EACH WORK DAY WHILE IN USE.
DEVELOPER IS REQUIRED TO CLEAN UP ANY SAND, DIRT OR DEBRIS WHICH ERODES FROM THE SITE INTO ANY PUBLIC STREET OR PRIVATE PROPERTY, AND TO REMOVE SILTS OR DEBRIS THAT ENTERS INTO EXISTING DRAINAGE INCLUDING CATCH BASIN SUMPS, PIPE LINES, MANHOLES OR DITCHES.

PREPARED BY: **DUCHARME & DILLIS** Civil Design Group, Inc. CIVIL ENGINEERS. LAND SURVEYORS. WETLAND CONSULTANTS

PHONE: (978) 779-6091 FAX: (978) 779-026 092 MAIN STREET, P.O. BOX 428 BOLTON, MASSACHUSETTS 01740

OWNER: PLANTATION APARTMENTS II LLC 22 JOHNSTON WAY STOW, MASSACHUSETTS 01775

STOW ELDERLY HOUSING CORP. 22 JOHNSTON WAY STOW, MASSACHUSETTS 01775





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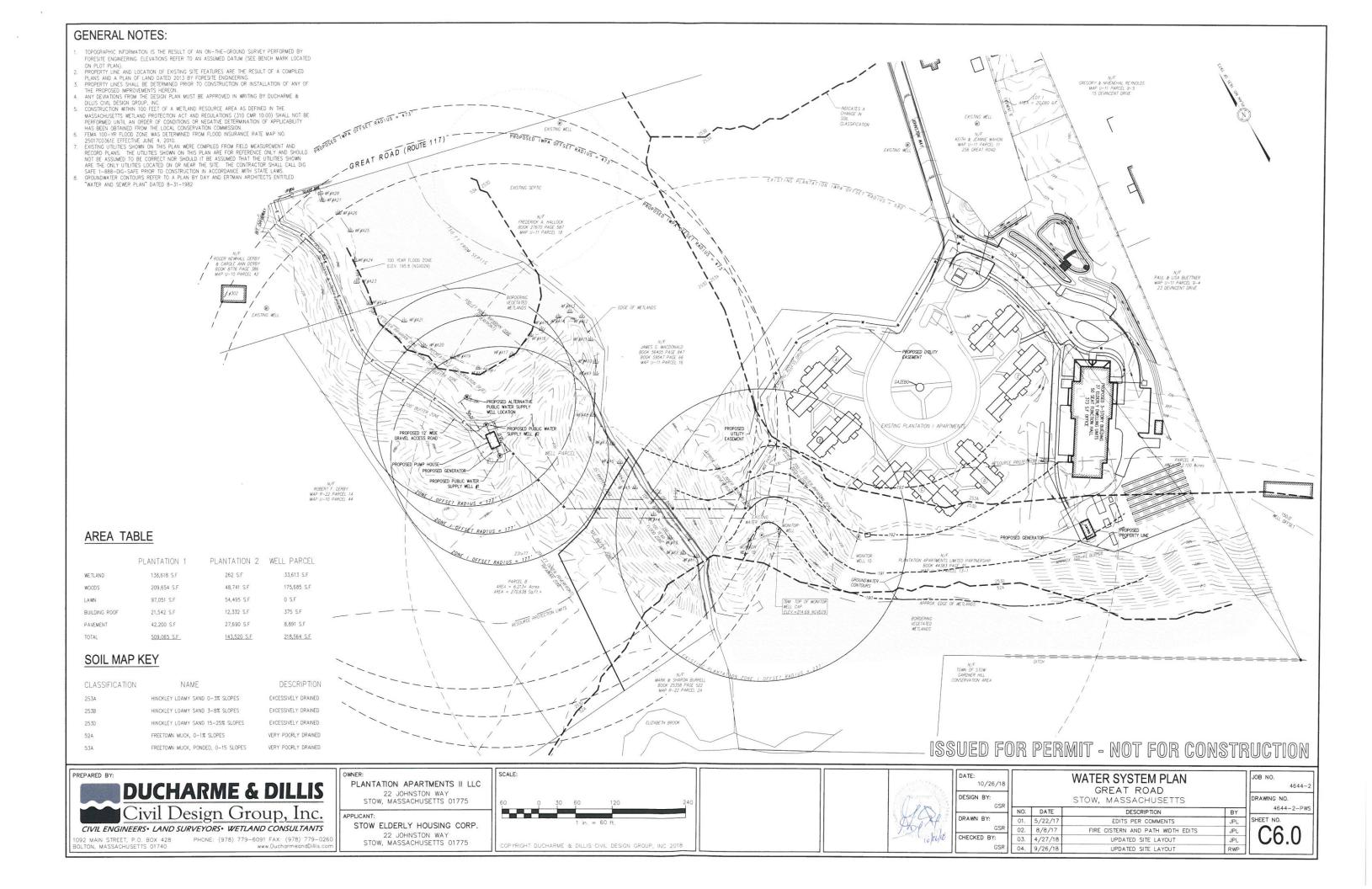
10/26/18	EROSION CONTROL PLAN						
N BY: JPL			STOW, MASSACHUSETTS				
	NO.	DATE	DESCRIPTION				
N BY:	01.	5/22/17	EDITS PER COMMENTS				
JPL	02.	8/8/17	FIRE CISTERN AND PATH WIDTH EDITS				
KED BY: GSR	03.	4/27/18	UPDATED SITE LAYOUT				
	04.	9/26/18	UPDATED SITE LAYOUT				

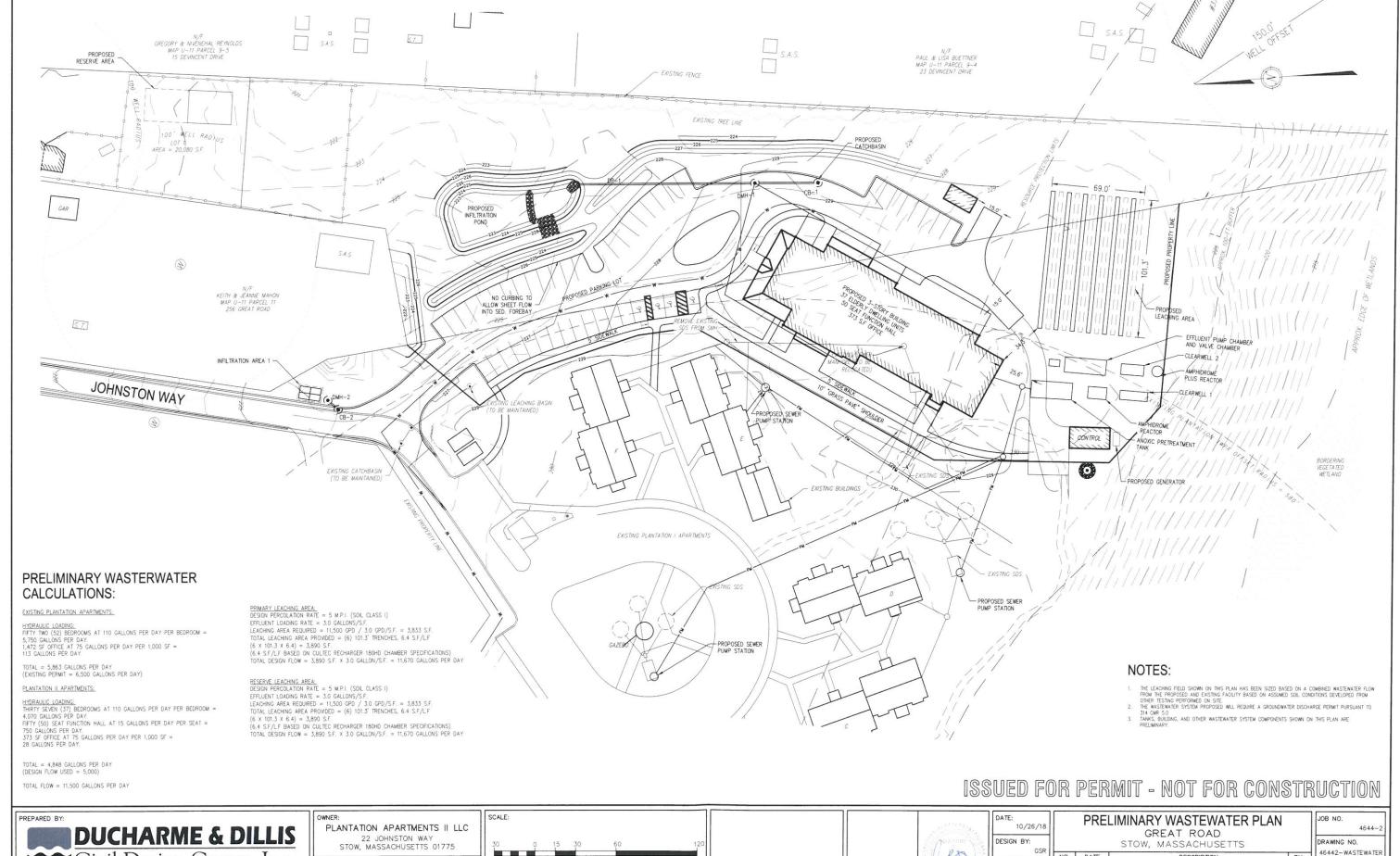
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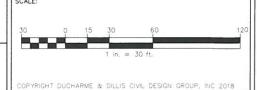






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STOW ELDERLY HOUSING CORP. 22 JOHNSTON WAY STOW, MASSACHUSETTS 01775





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WN BY:	01.	8/16/18	RESIZE LEACHING FIELD	İ
RWP	02.	9/26/18	UPDATE SITE LAYOUT	t

46442-WASTEWATE SHEET NO.

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