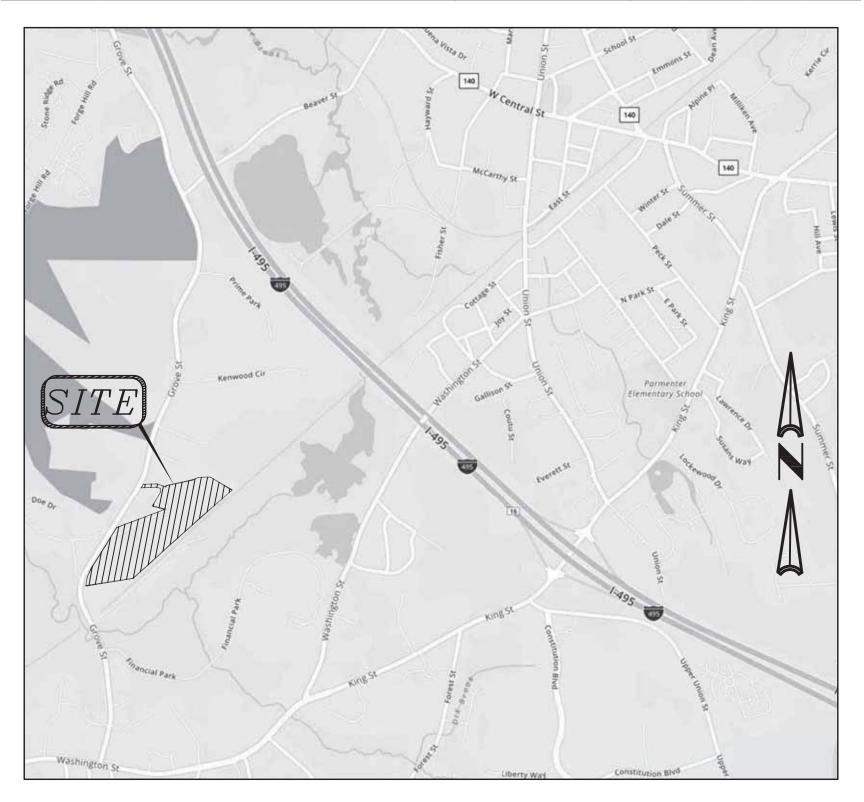
## SITE DEVELOPMENT PLANS

FOR

## 176- 210 GROVE STREET FRANKLIN, MA

FEBRUARY 14, 2020

		SHEET	T INDEX
SHEET	No.	DESCRIPTION	LATEST REVISED DATE CONSTRUCTION REVISIONS
1		COVER SHEET	11/16/20
2		OVERALL LAYOUT PLAN	11/16/20
3		EXISTING CONDITIONS PLAN	11/16/20
4		LAYOUT PLAN	11/16/20
5		GRADING PLAN	11/16/20
6		SEWER, DRAIN PLAN	11/16/20
7		UTILITY PLAN	11/16/20
8		DETAIL SHEET	11/16/20
9		DETAIL SHEET	11/16/20
10		DETAIL SHEET	11/16/20
11		DETAIL SHEET	11/16/20
12		DETAIL SHEET	11/16/20



LOCATION MAP

### OWNER/APPLICANT:

MCP III 176 GROVE LLC & MCP III 210 GROVE LLC 260 FRANKLIN STREET, STE 620 BOSTON, MA 02110

### CIVIL ENGINEERS:

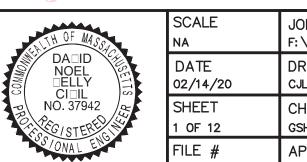
KELLY ENGINEERING GROUP, INC. O CAMPANELLI DRIVE BRAINTREE, MA 02184

### LANDSCAPE ARCHITECT:

HAWK DESIGN INC. P.O. BOX 1309 SANDWICH, MA 02563

APPROV BOARD	ÆD BY	THE	FRANKLIN	PLANNING



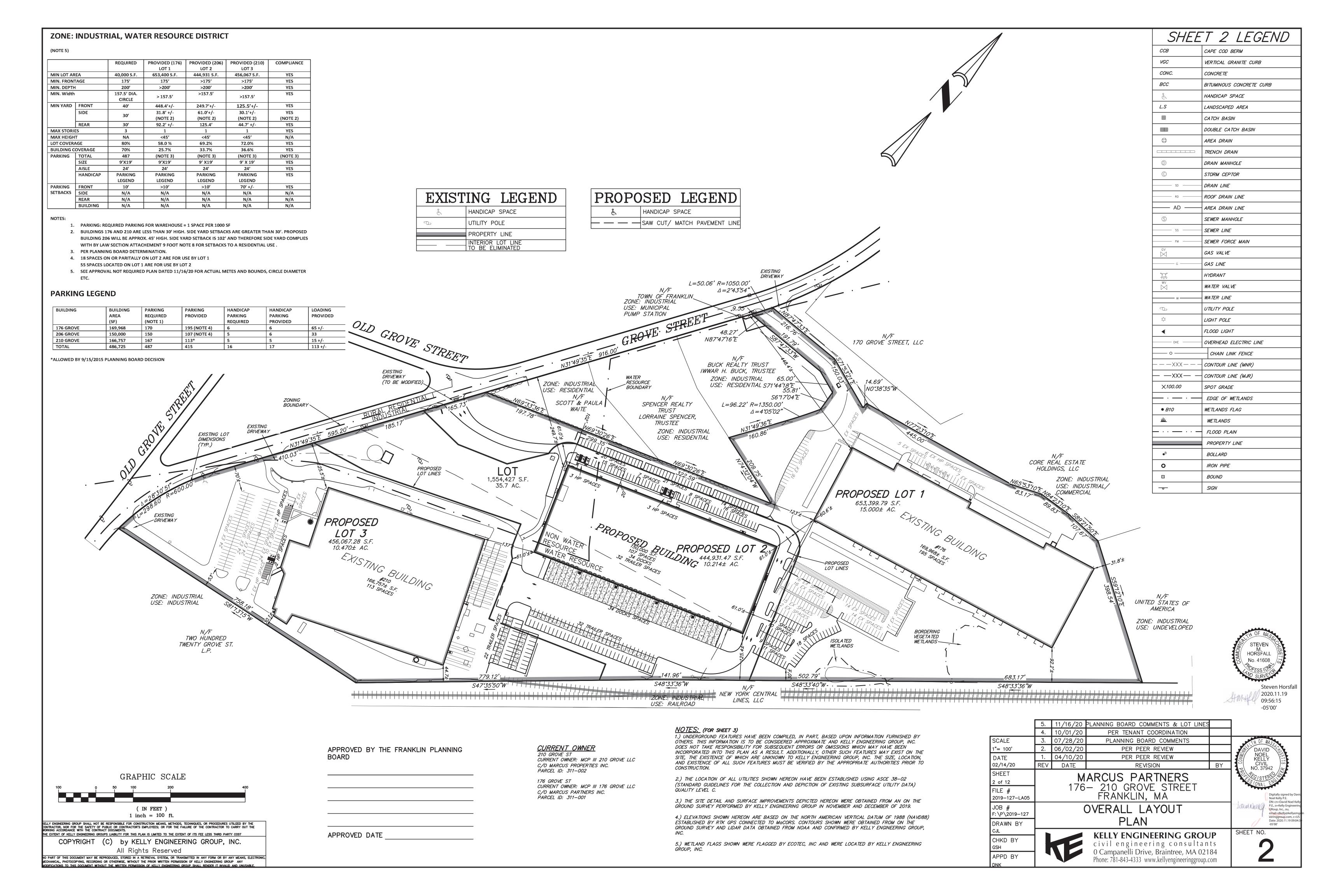


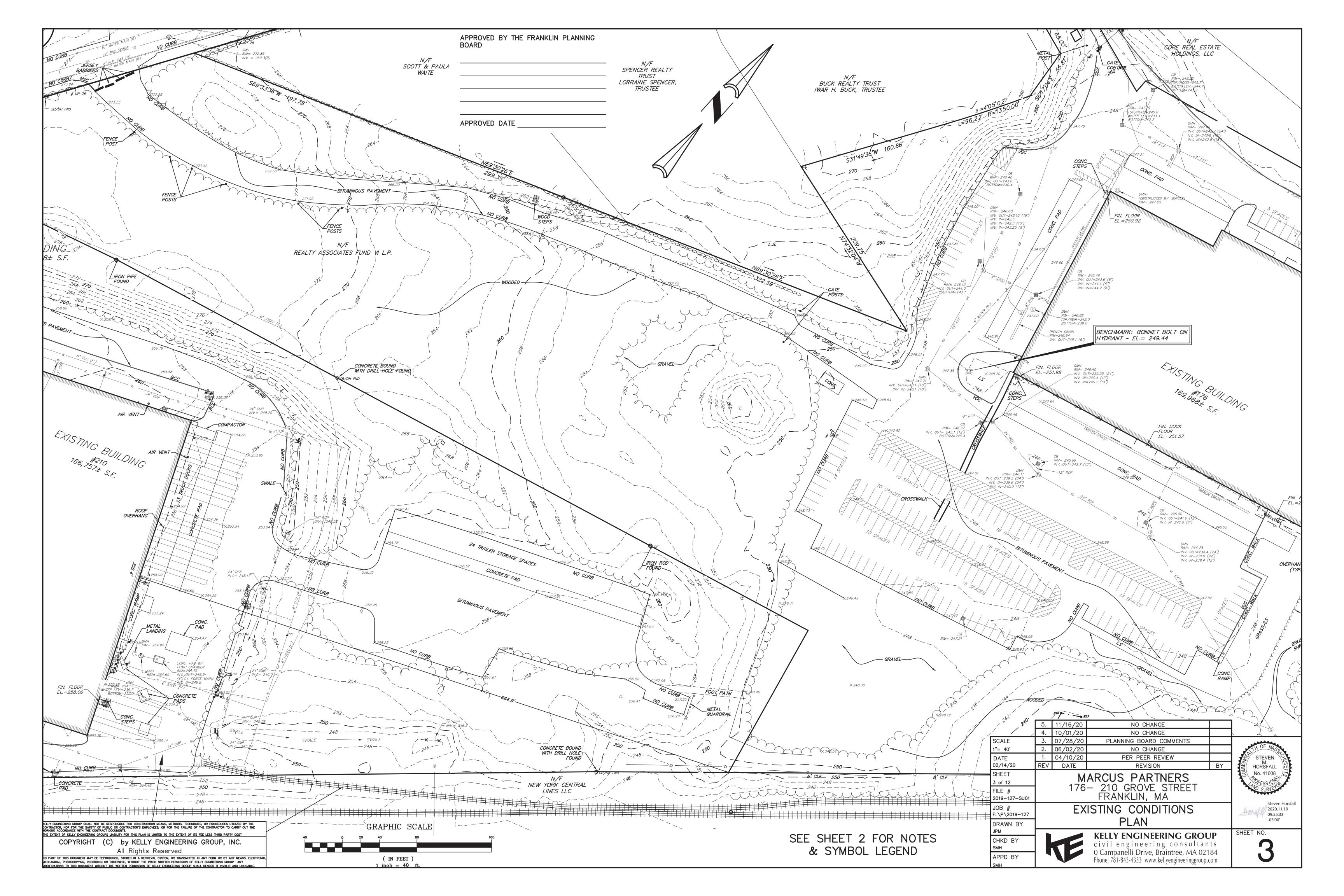
JOB # F: \P\2019–127 DRAWN BY CHKD BY GSH APPD BY

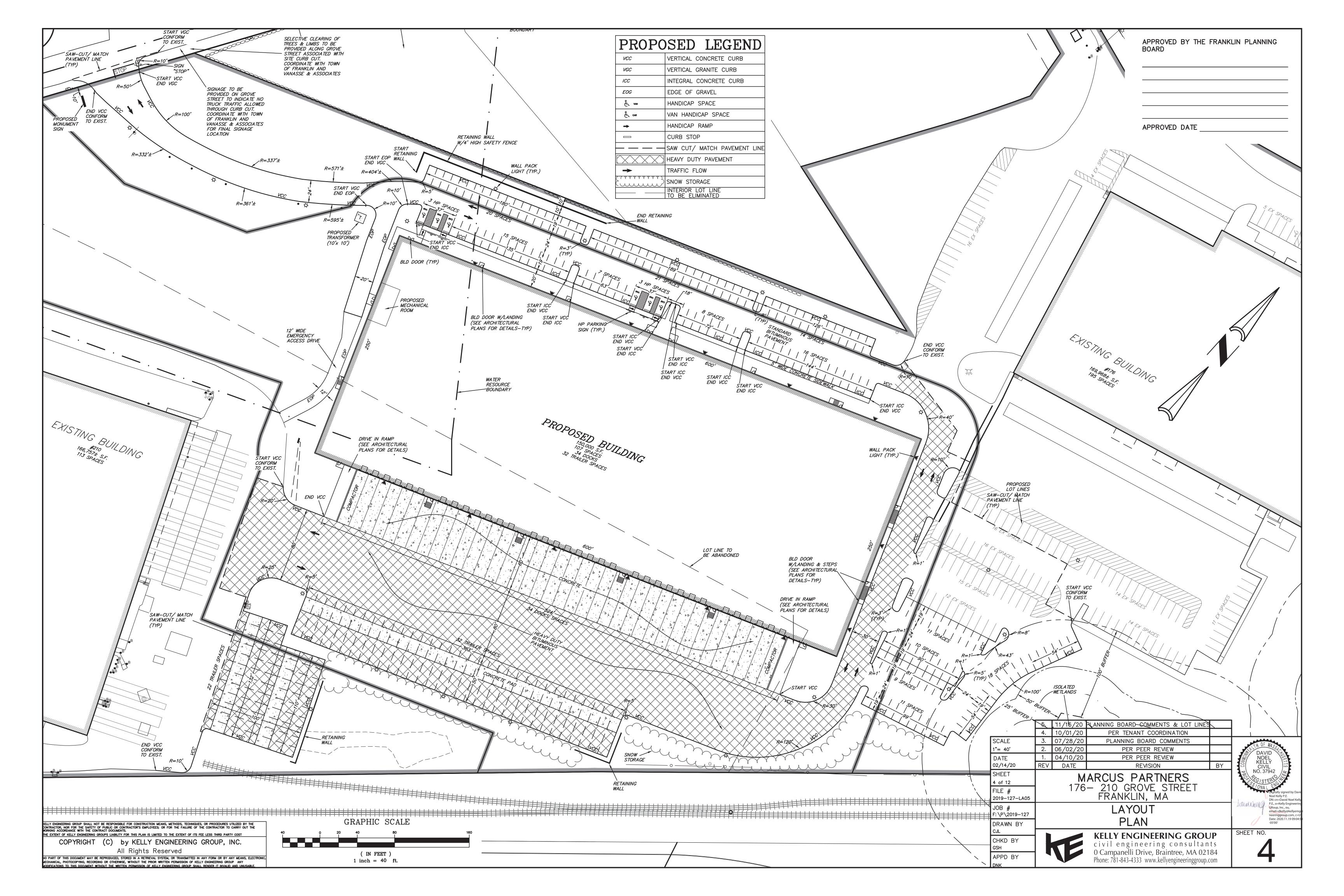
176- 210 GROVE STREET FRANKLIN, MA

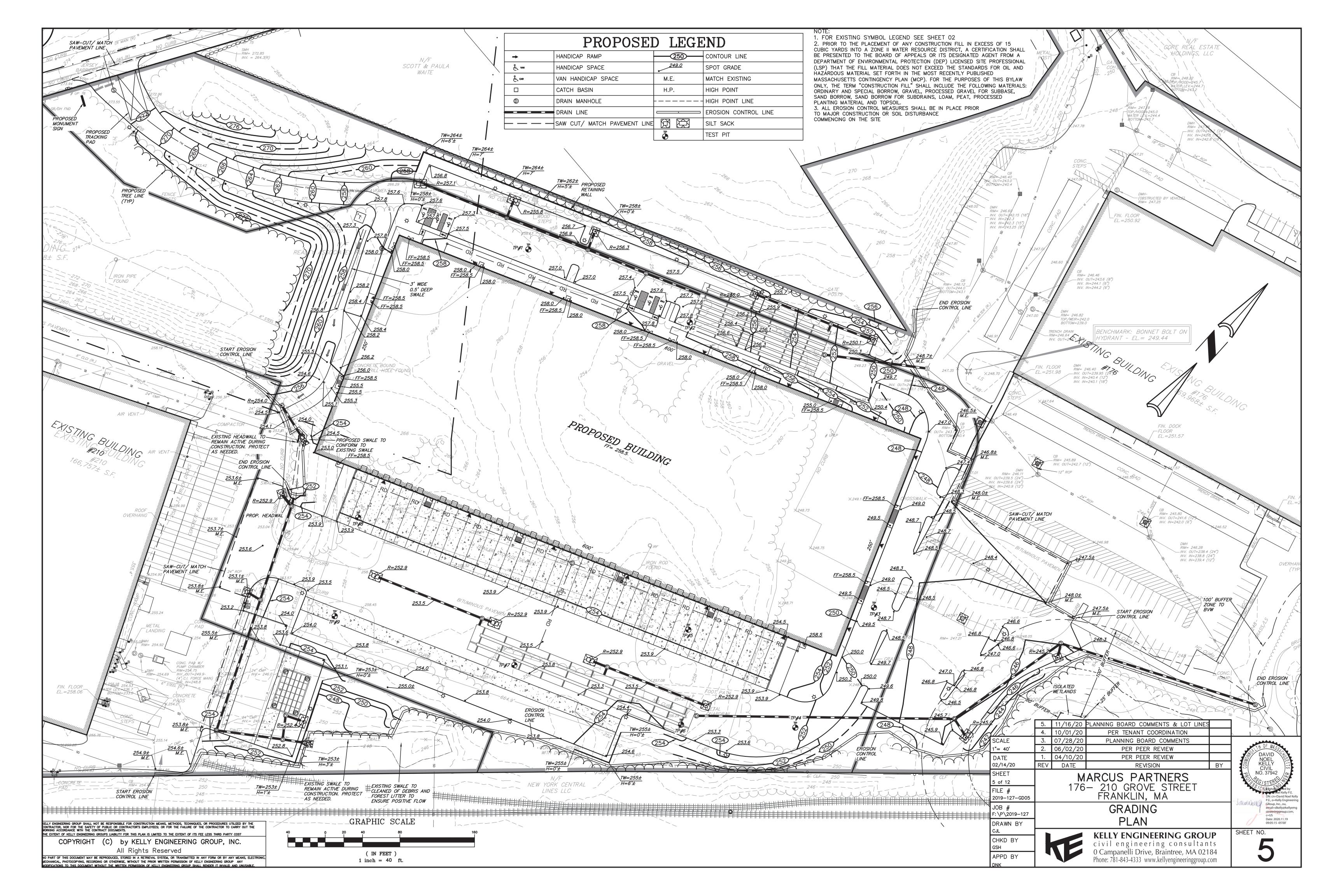
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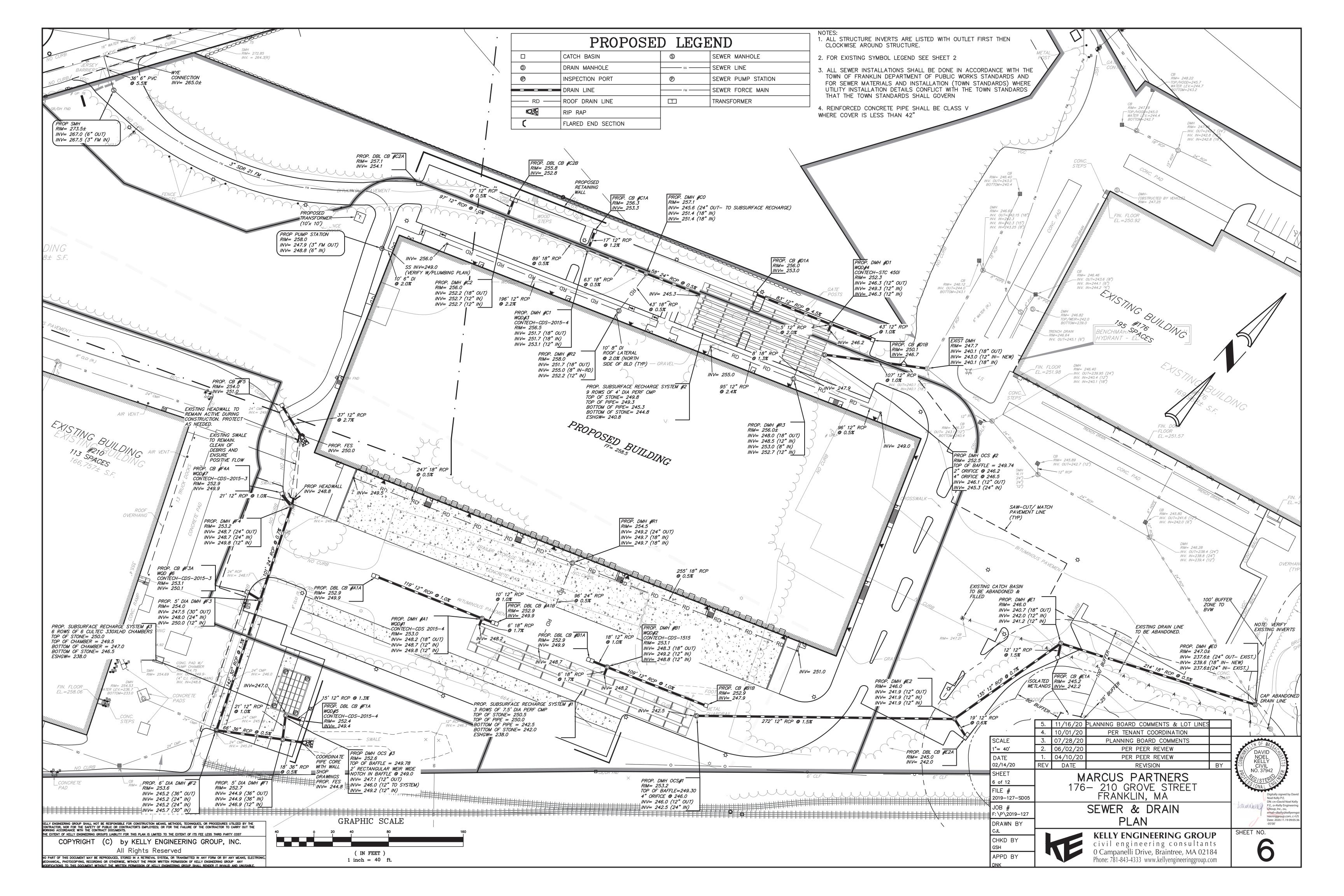
KELLY ENGINEERING GROUP civil engineering consultants O Campanelli Drive, Braintree, MA 02184 Phone: 781-843-4333 www.kellyengineeringgroup.com

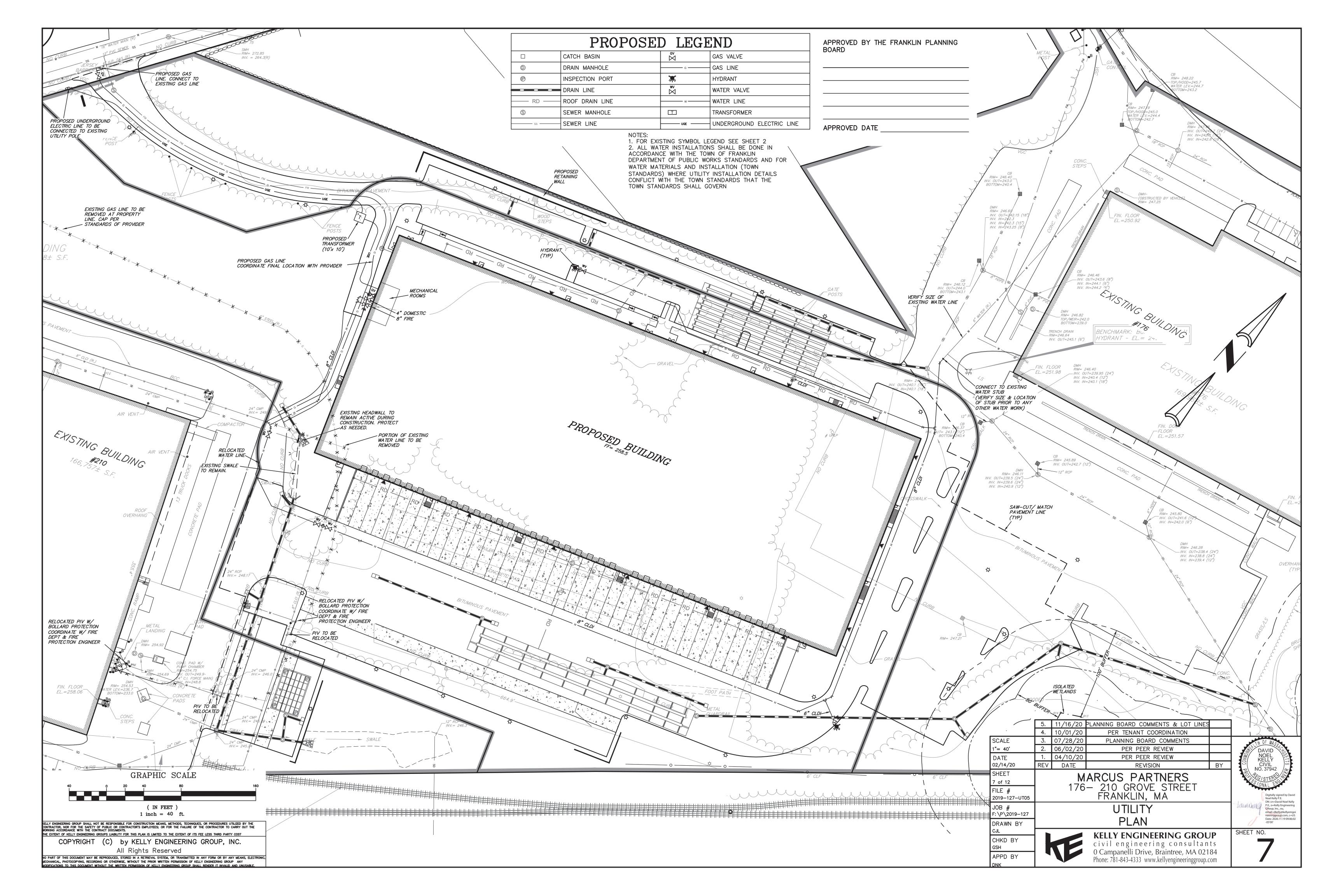


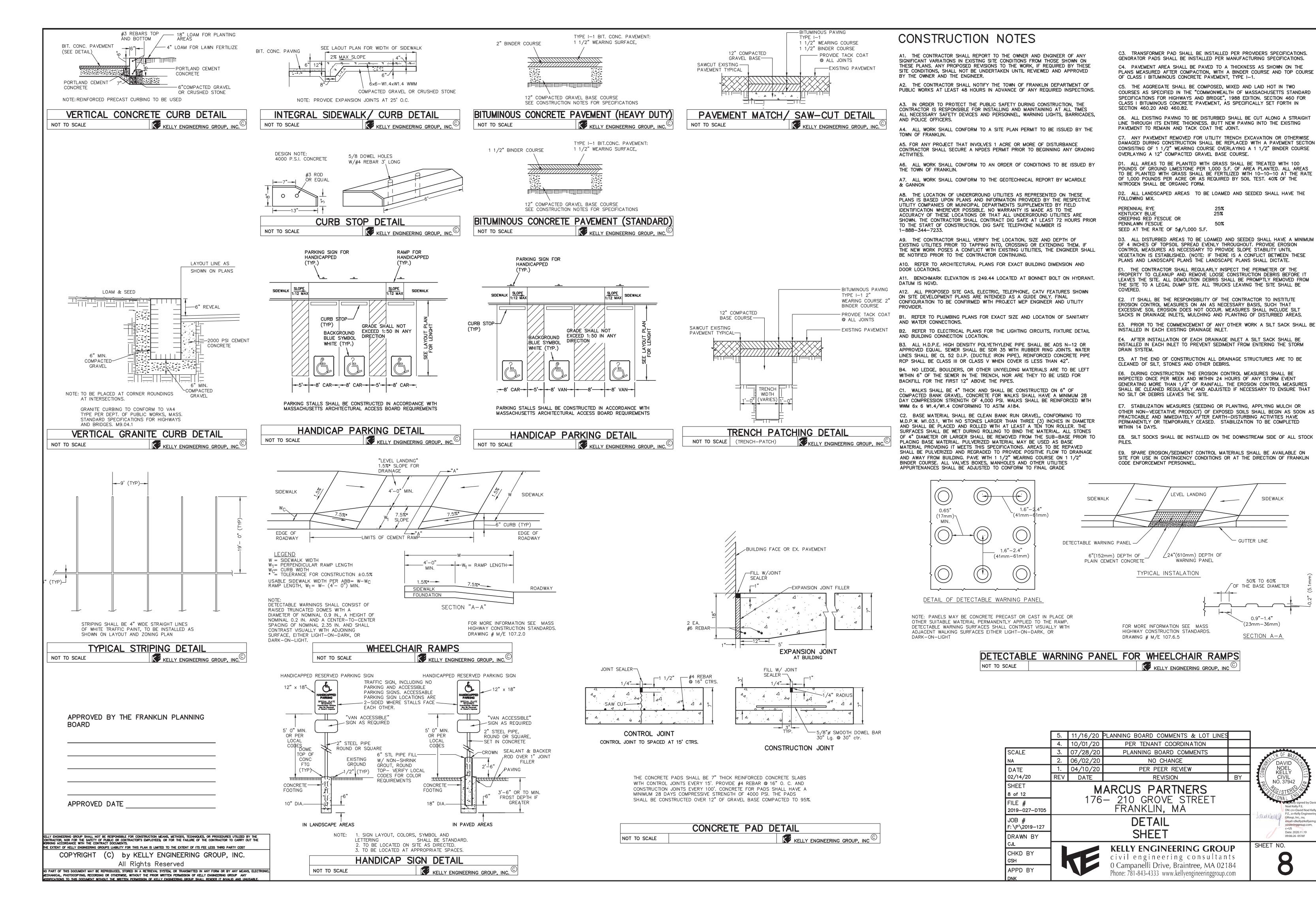


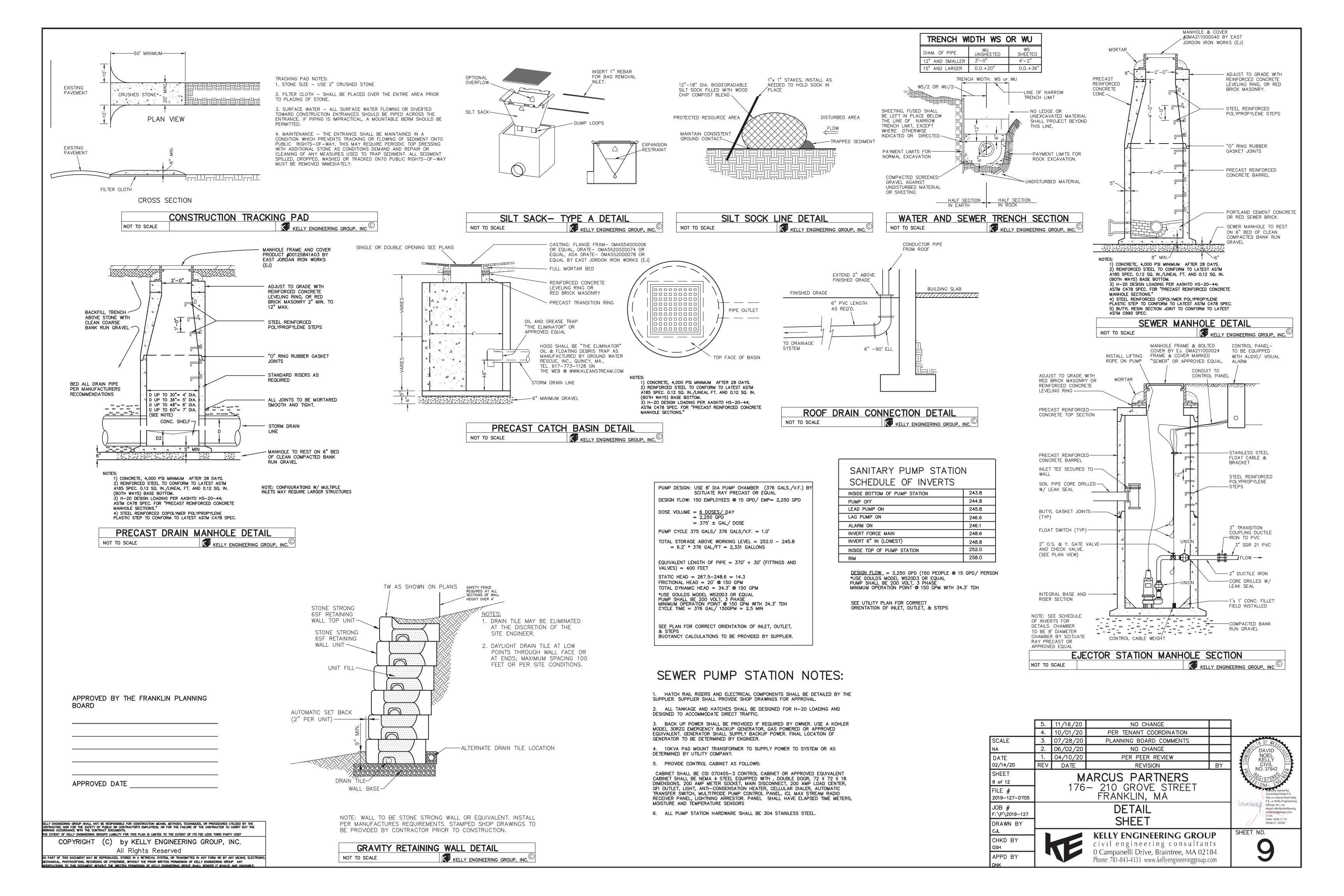


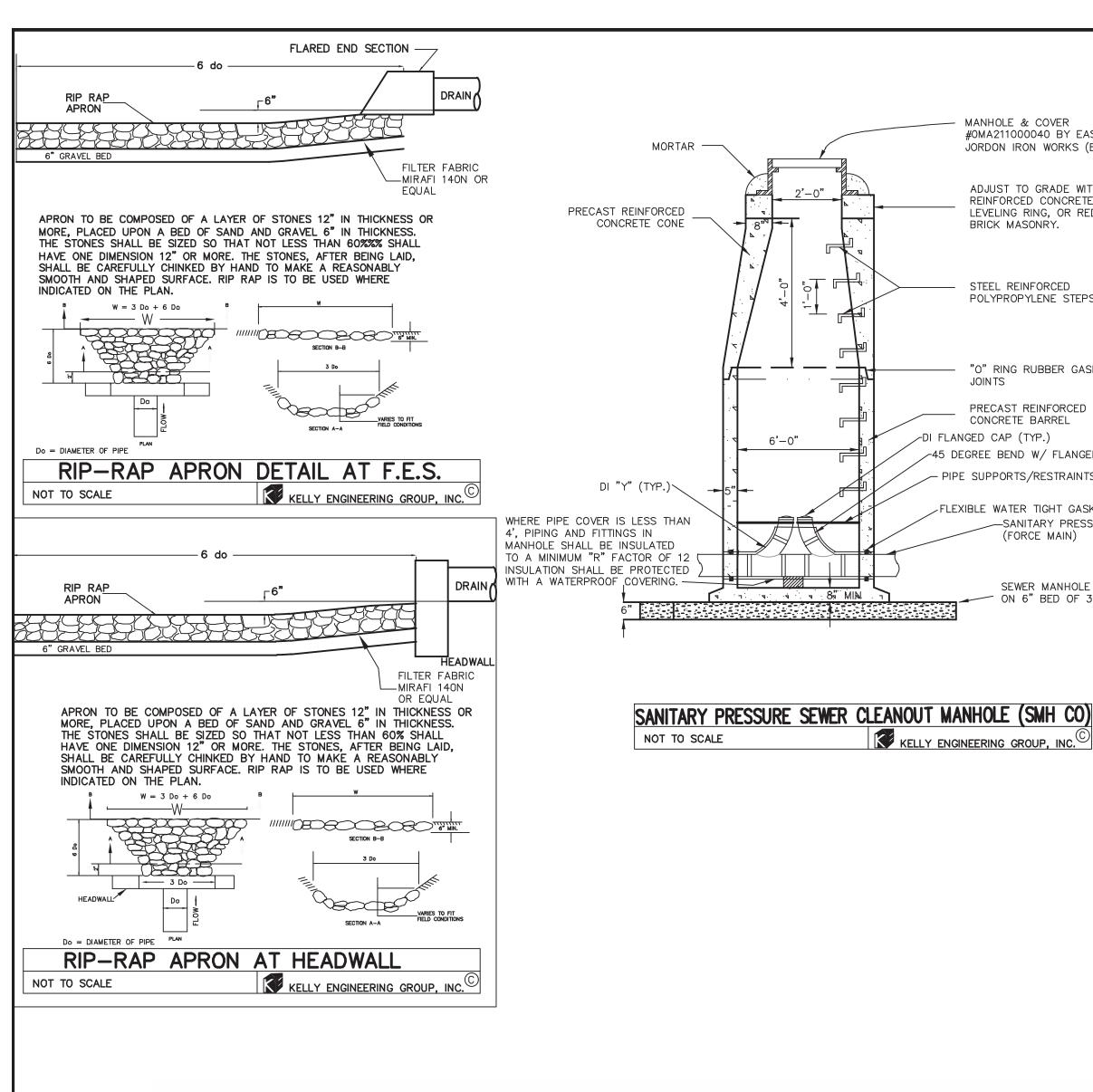


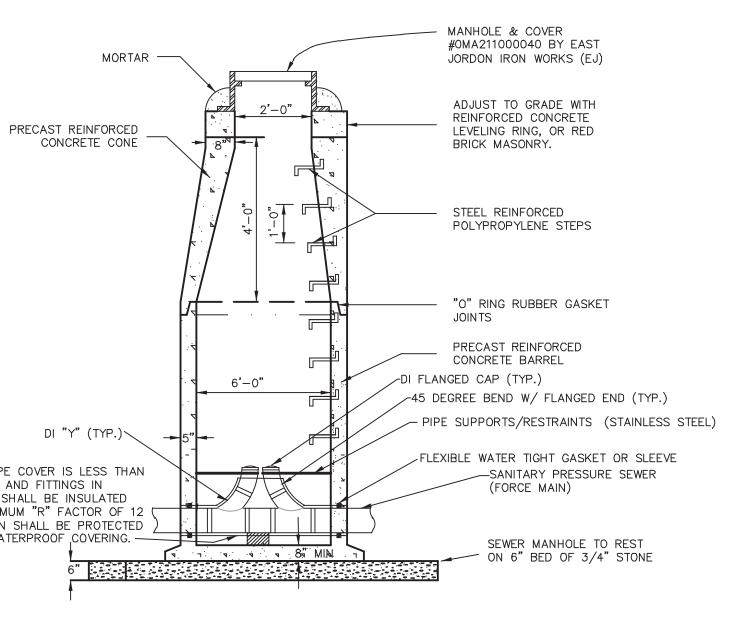


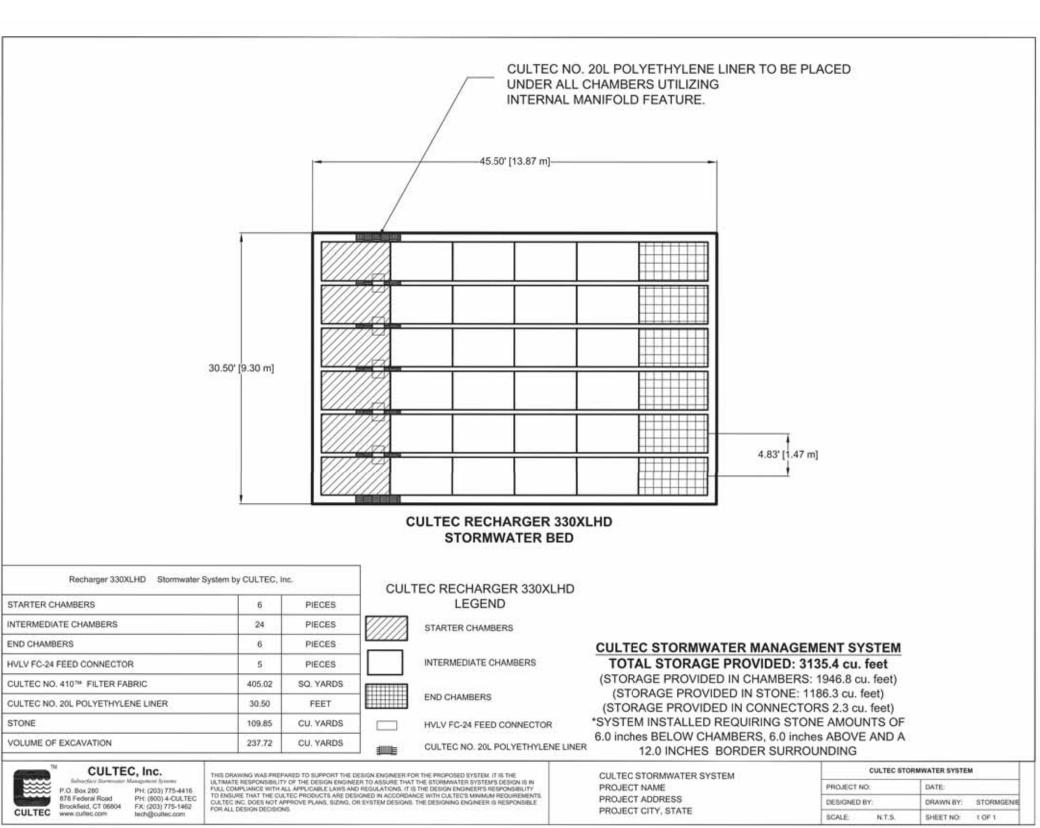


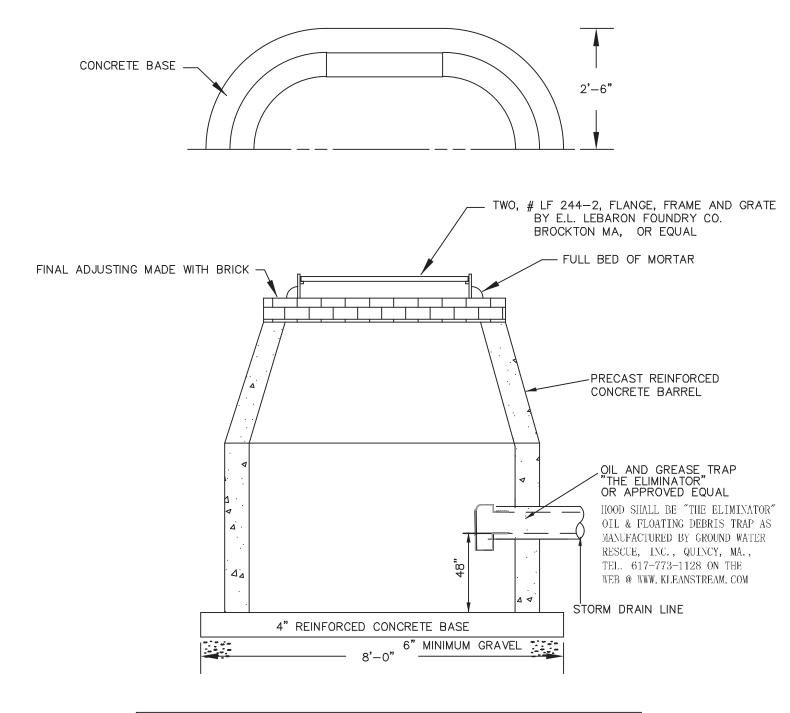








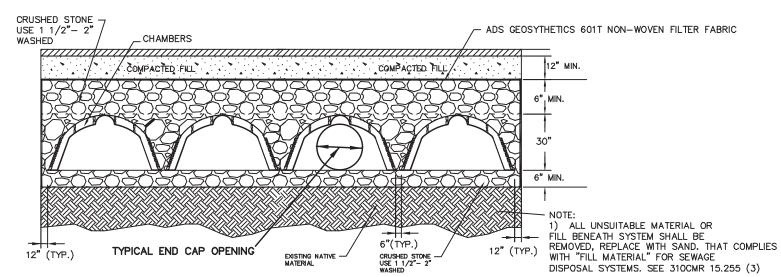




#### PRECAST DOUBLE CATCH BASIN KELLY ENGINEERING GROUP, INC. NOT TO SCALE

#### SUBSURFACE RECHARGE CHAMBERS (CULTEC 330XLHD OR APPROVED EQUAL)

PROPRIETARY SHOP DRAWINGS TO BE PROVIDED PRIOR TO INSTALLATION



STORMWATER MANAGEMENT SYSTEM CONSTRUCTION OPERATION + MAINTENANCE NOTES:

1. EXTREME CARE SHALL BE TAKEN DURING CONSTRUCTION TO AVOID SILTATION DURING THE CONSTRUCTION 2. EXTREME CARE SHALL BE TAKEN TO PREVENT COMPACTION OF UNDISTURBED SOILS BENEATH RECHARGE SYSTEM. 3. THERE SHALL BE NO DISCHARGE OF WATER FOR CONSTRUCTION DEWATERING ACTIVITIES INTO THE STORMWATER

MANAGEMENT SYSTEM. 4. THERE SHALL BE NO DISCHARGE OF STORMWATER INTO THE RECHARGE SYSTEM UNTIL THE SITE HAS BEEN STABILIZED.

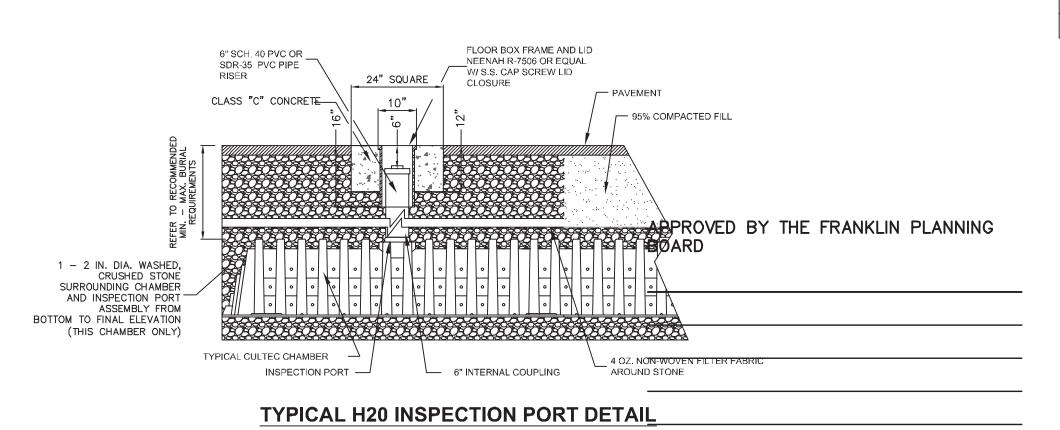
### CONSTRUCTION INSPECTION SCHEDULE

1. SILT SACKS AND SILT SOCKS SHALL BE INSPECTED AND REPLACED AS NECESSARY.

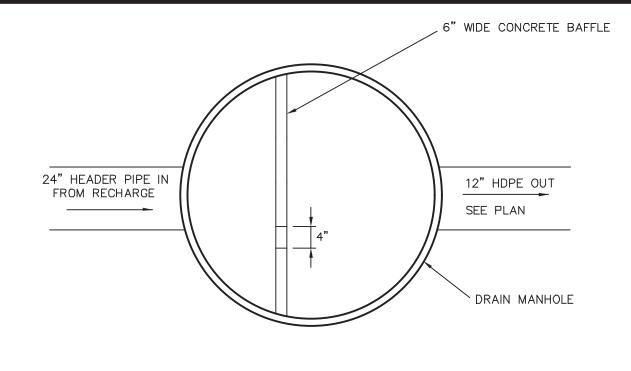
2. INSPECTIONS SHALL INCLUDE THE PAVEMENT TO DETERMINE IF ACCUMULATED SEDIMENT IS TO BE REMOVED, OF THE CATCH BASINS TO DETERMINE DEPTH OF SEDIMENTS AND REQUIRED CLEANING, AND INSPECTION OF THE RECHARGE SYSTEM TO DETERMINE IF CLEANING IS NECESSARY.

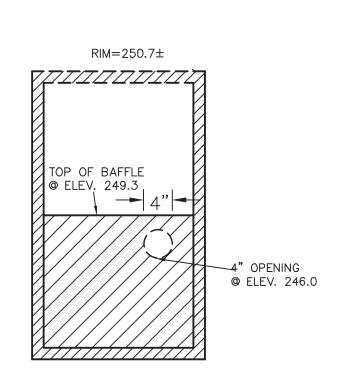
3. AN INSPECTION OF THE EXCAVATION OF THE RECHARGE SYSTEM SHALL BE CONDUCTED BY THE ENGINEER AND A REPRESENTATIVE THE TOWN'S ENGINEERING DEPARTMENT PRIOR TO PLACEMENT OF ANY CHAMBERS.





APPROVED DATE



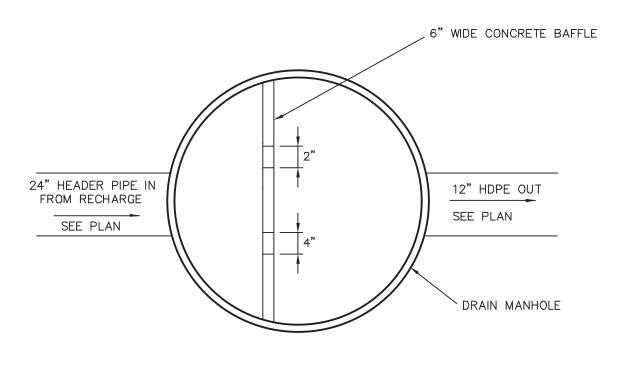


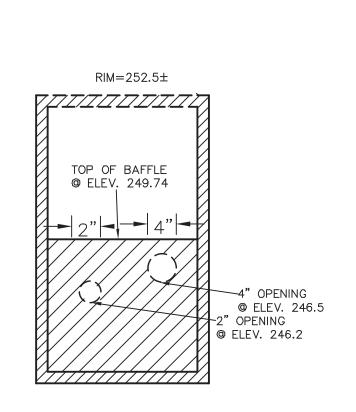
### TOP VIEW

### **SECTION**

NOTE: FOR OTHER NOTES AND DETAILS SEE TYPICAL DRAIN MANHOLE DETAIL

CONTROL STRUCTURE MANHOLE #1 KELLY ENGINEERING GROUP, INC NOT TO SCALE





### TOP VIEW

### **SECTION**

**SECTION** 

NOTE: FOR OTHER NOTES AND DETAILS SEE TYPICAL DRAIN MANHOLE DETAIL

CONTROL STRUCTURE MANHOLE #2 KELLY ENGINEERING GROUP, INC NOT TO SCALE 6" WIDE CONCRETE BAFFLE  $RIM = 252.6 \pm$ 12" RCP IN TOP OF BAFFLE @ ELEV. 249.78 SEE PLAN DRAIN MANHOLE 2' WIDE OPENING @ ELEV. 249.0

NOTE: FOR OTHER NOTES AND DETAILS SEE TYPICAL DRAIN MANHOLE DETAIL

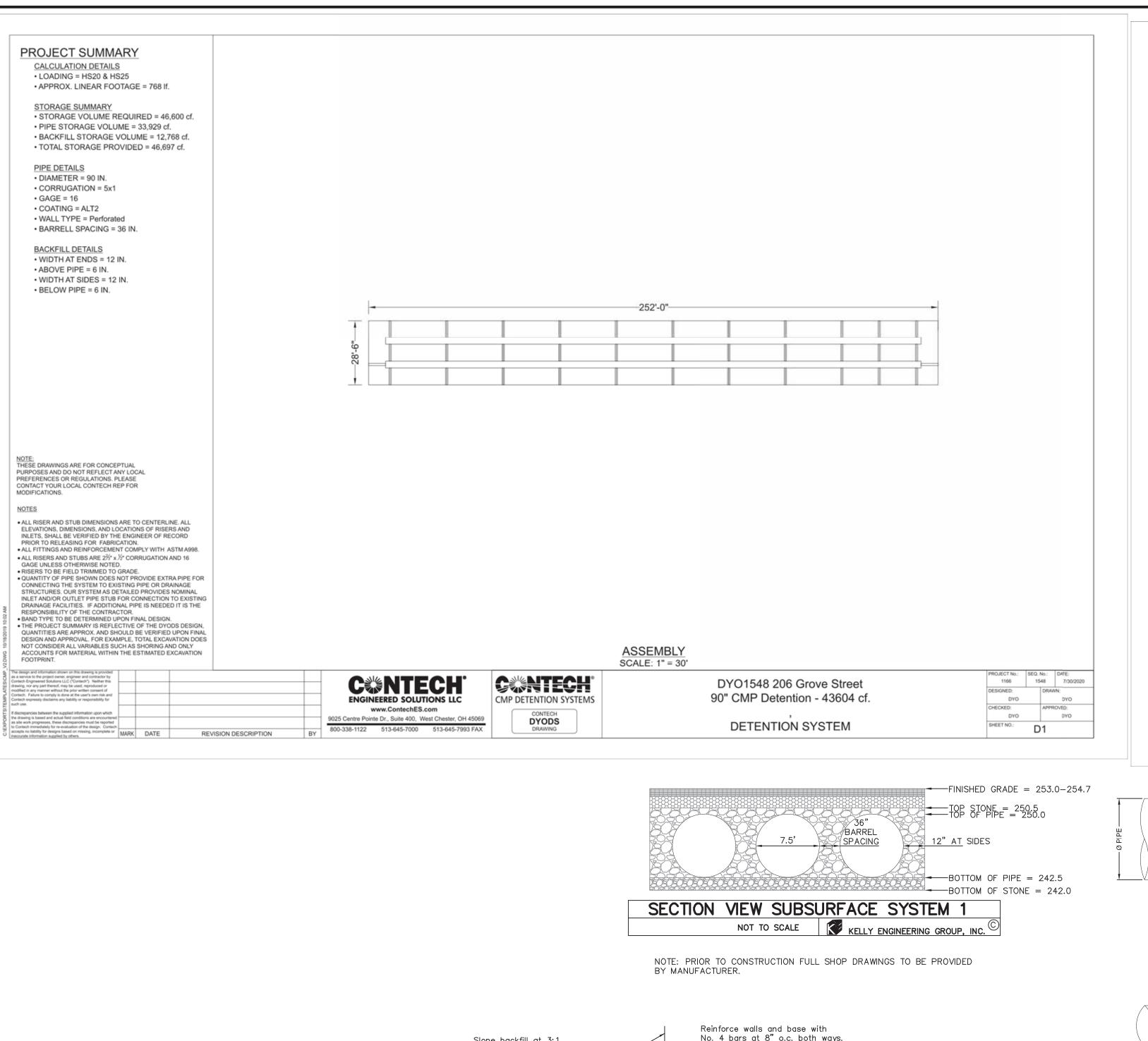
CONTROL STRUCTURE MANHOLE #3

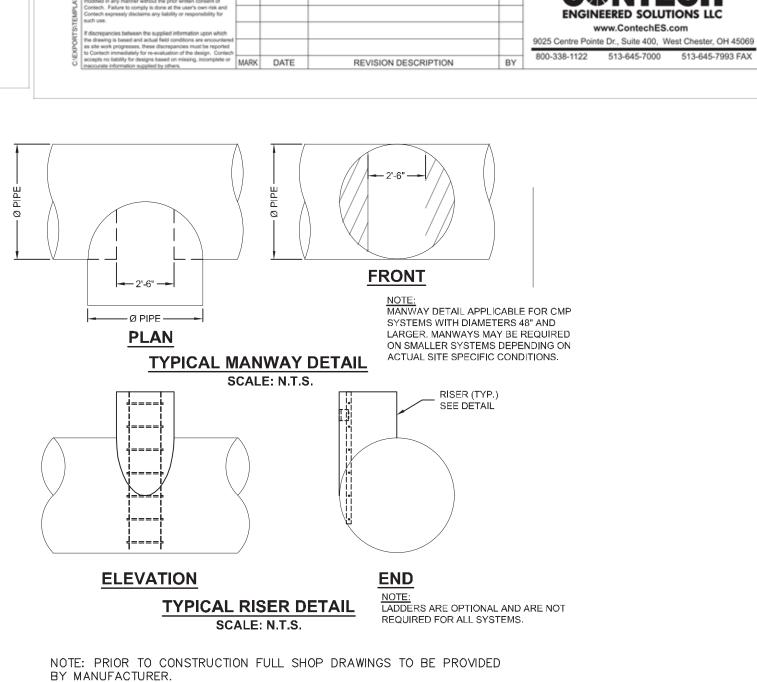
KELLY ENGINEERING GROUP, INC NOT TO SCALE

	5.	11/16/20	NO CHANGE		
	4.	10/01/20	PER TENANT COORDINATION		
SCALE	3.	07/28/20	PLANNING BOARD COMMENTS		OF W
NA	2.	06/02/20	NO CHANGE		DAVID
DATE	1.	04/10/20	PER PEER REVIEW		VOY NOEL YOU
02/14/20	REV	DATE	REVISION	BY	KELLY CIVIL
SHEET		NA.	ARCUS PARTNERS		NO. 37942
10 of 12		IVI	- 210 GROVE STREET		COSTERED OF THE STREET
FILE # 2019-127-DT05		1/6	VONA L  Digitally signed by David Noel Kelly P.E. DN: cn=David Noel Kelly		
JOB # F: \P\2019-127			DETAIL		P.E., o=Kelly Engineering GRoup, Inc., ou, email=dkelly@kellyemgoi neeringgroup.com, c=US Date: 2020.11.19 09:07:17
DRAWN BY	1		SHEET		-05'00'
CJL			KELLY ENGINEERING GROU	I <b>D</b>	SHEET NO.
CHKD BY GSH			civil engineering consultar	nts	10
APPD BY			O Campanelli Drive, Braintree, MA 027 Phone: 781-843-4333 www.kellyengineeringgroup.	com	

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PROJECT SUMMARY

CALCULATION DETAILS

STORAGE SUMMARY

PIPE DETAILS

GAGE = 16

COATING = ALT2

BACKFILL DETAILS

· ABOVE PIPE = 6 IN.

BELOW PIPE = 6 IN.

NOTE: THESE DRAWINGS ARE FOR CONCEPTUAL

PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR

ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL

ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD

 ALL RISERS AND STUBS ARE 2<sup>3</sup>/<sub>2</sub>" x ½" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.

RISERS TO BE FIELD TRIMMED TO GRADE.

QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR

PRIOR TO RELEASING FOR FABRICATION.

• ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.

CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING

DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR. BAND TYPE TO BE DETERMINED UPON FINAL DESIGN.
 THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN, QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL.

DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY

ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION

DIAMETER = 48 IN.

CORRUGATION = 2 2/3x1/2

WALL TYPE = Perforated

· WIDTH AT ENDS = 12 IN.

· WIDTH AT SIDES = 12 IN.

· BARRELL SPACING = 24 IN.

LOADING = HS20 & HS25

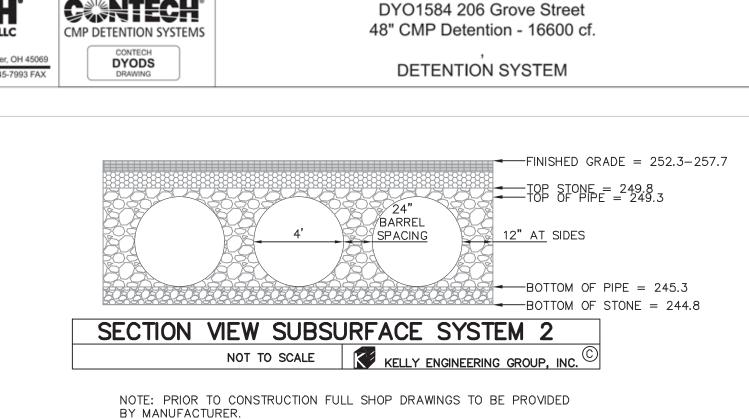
APPROX. LINEAR FOOTAGE = 1,321 lf.

PIPE STORAGE VOLUME = 16,600 cf.

BACKFILL STORAGE VOLUME = 9,236 cf.

• TOTAL STORAGE PROVIDED = 25,836 cf.

STORAGE VOLUME REQUIRED = 25,800 cf.

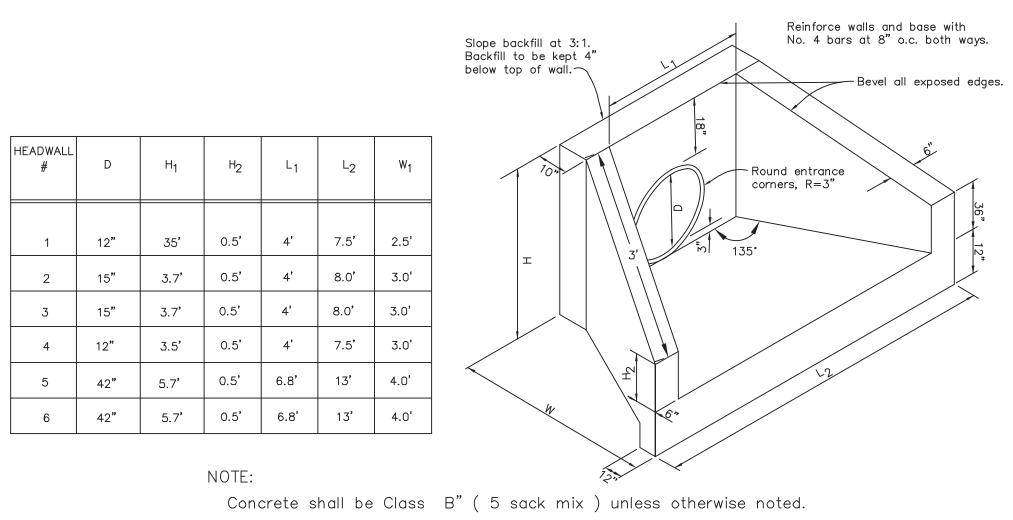


PROJECT No.: SEQ. No.: DATE: 1166 1584 7/31/2020

DESIGNED: DRAWN: DYO DYO

DYO

-145'-0"-



HEADWALL DETAIL

KELLY ENGINEERING GROUP, INC

APPROVED BY THE FRANKLIN PLANNING **BOARD** APPROVED DATE

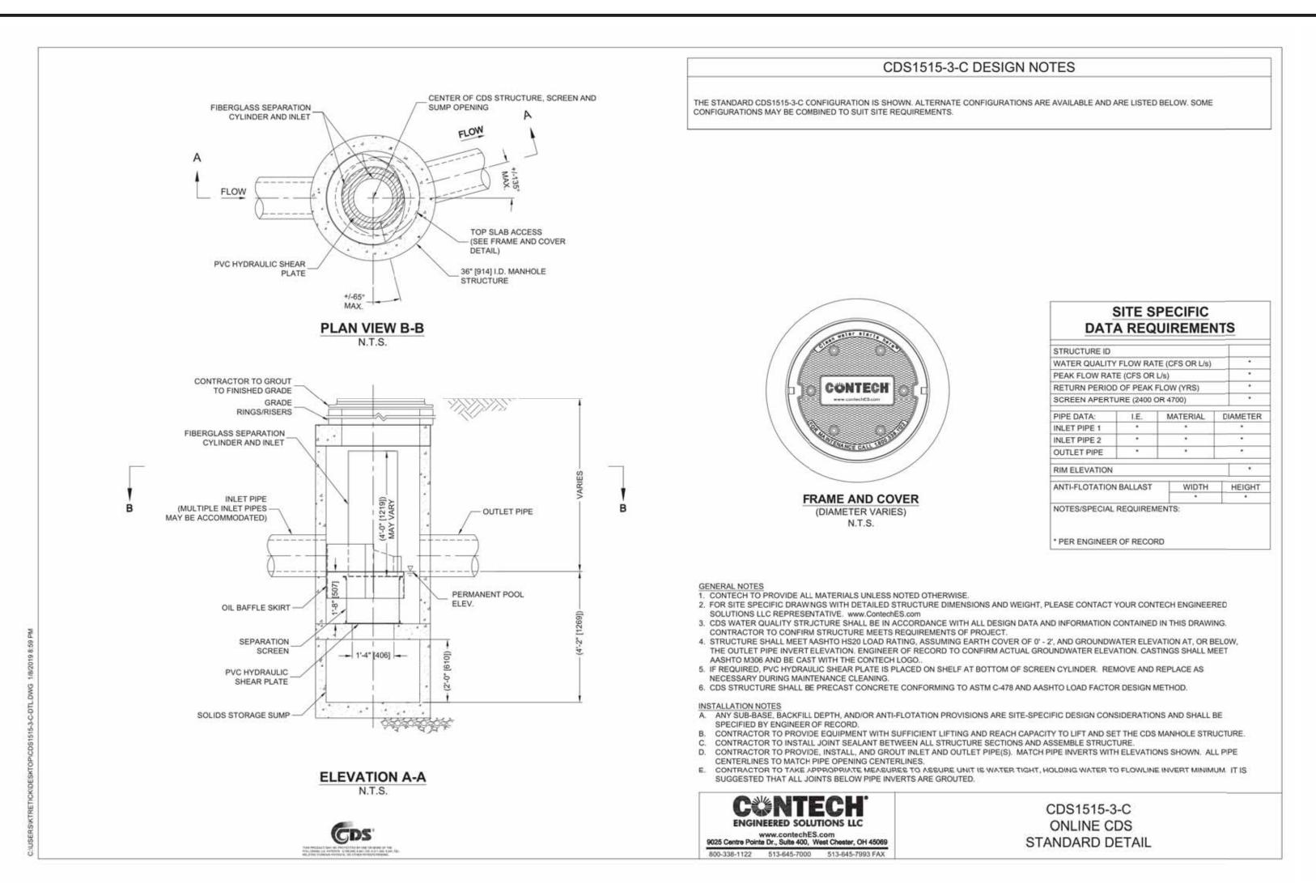
	5.	11/16/20	NO CHANGE		]
	4.	10/01/20	PER TENANT COORDINATION		
SCALE	3.	07/28/20	PLANNING BOARD COMMENTS		OF MA
NA	2.	06/02/20	NO CHANGE		DAVID
DATE	1.	04/10/20	PER PEER REVIEW		NOEL YES
02/14/20	REV	DATE	REVISION	BY	
SHEET		M	ARCUS PARTNERS		NO. 37942
11 of 12					COS (STERIO)
FILE # 2019-127-DT05		1/6	<ul> <li>210 GROVE STREET FRANKLIN, MA</li> </ul>		Digitally signed by David Noel Kelly P.E. DN: cn=David Noel Kelly
JOB # F: \P\2019–127			DETAIL		P.E., o=Kelly Engineering GRoup, Inc., ou, email=dkelly@kellyemgc neeringgroup.com, c=US
DRAWN BY	l		SHEET		Date: 2020.11.19 09:07:4 -05'00'
CJL			KELLY ENGINEERING GRO	LID	SHEET NO.
CHKD BY GSH			civil engineering consulta 0 Campanelli Drive, Braintree, MA 02	nts	11
APPD BY			Phone: 781-843-4333 www.kellyengineeringgrou	p.com	

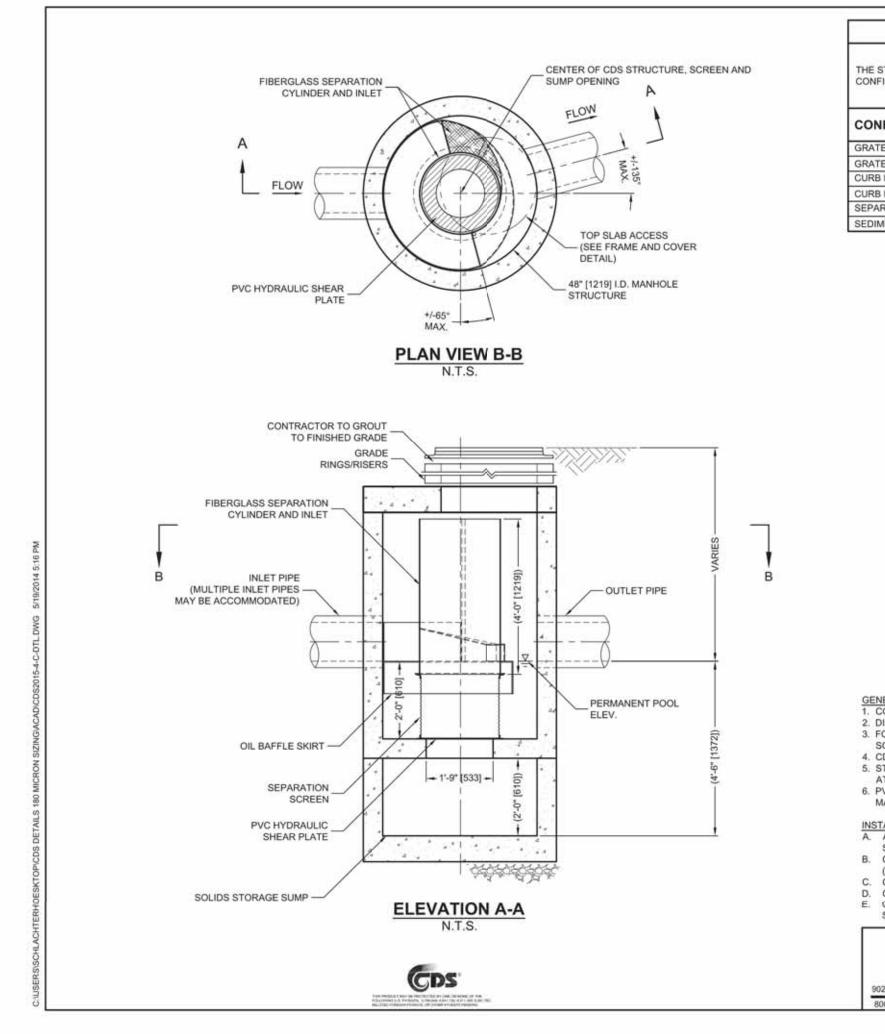
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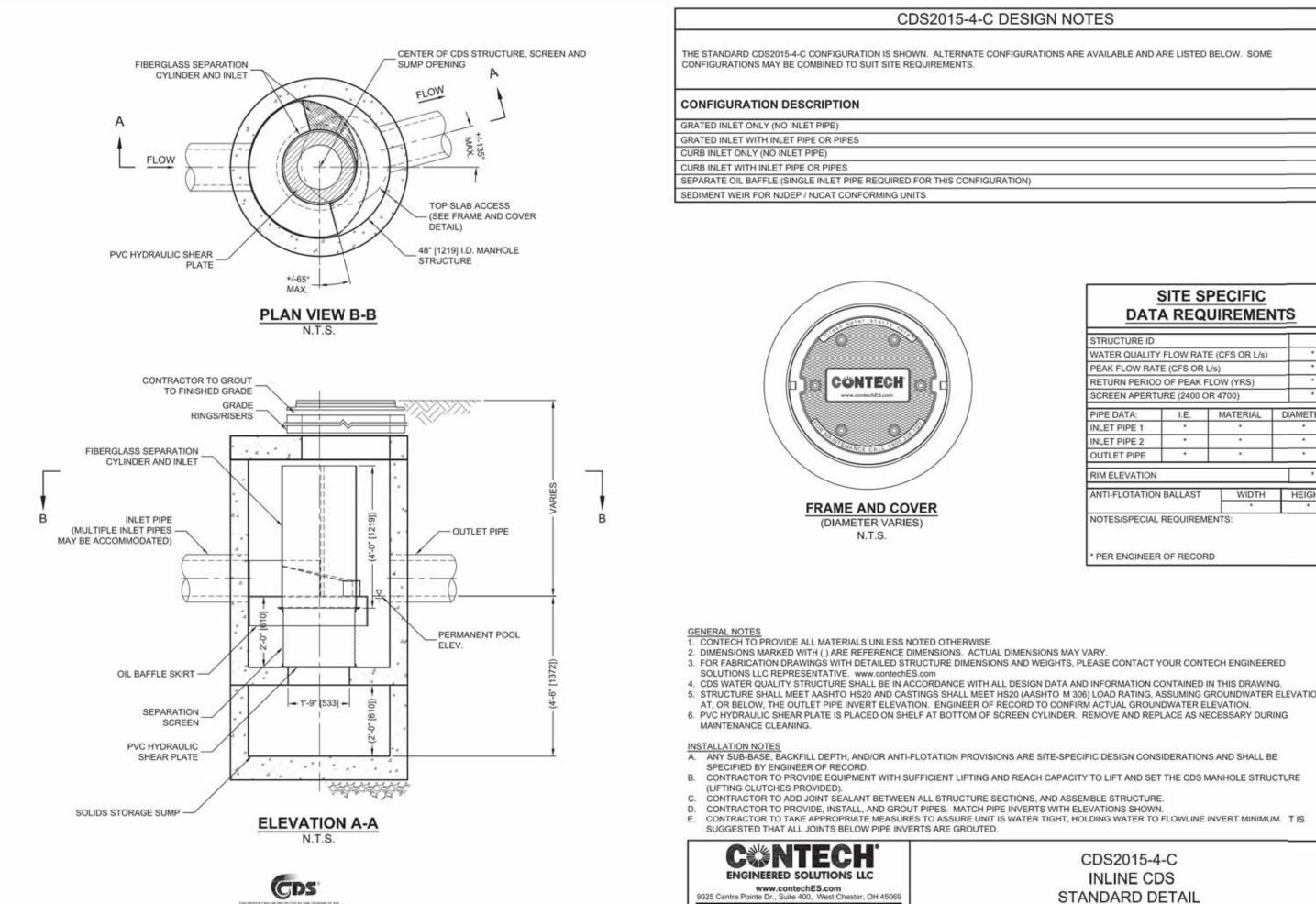
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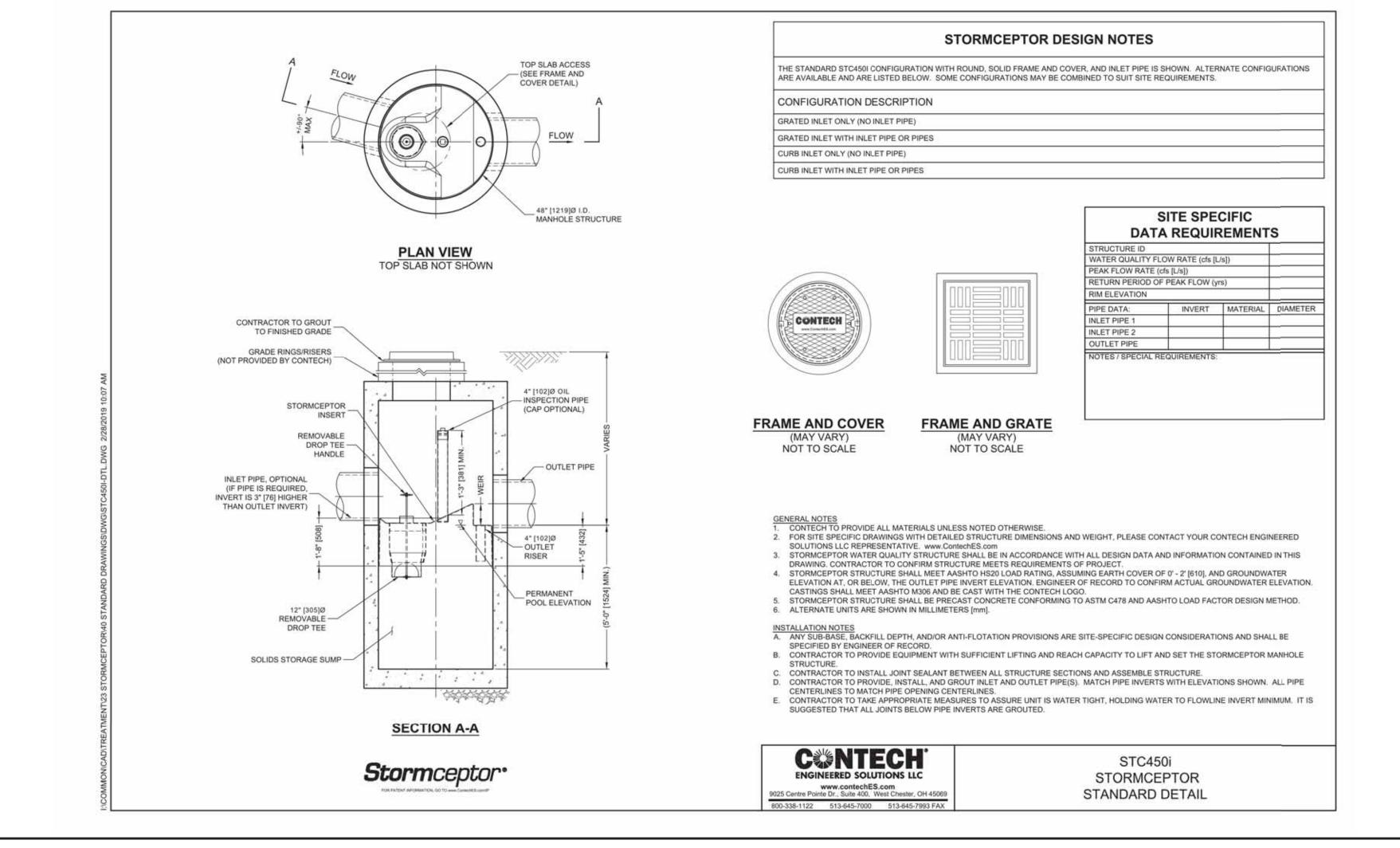
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APPROVED E BOARD	BY THE	FRANKLIN	PLANNING
APPROVED [	)ATE		

	5.	11/16/20	NO CHANGE		]
	4.	10/01/20	PER TENANT COORDINATION		
SCALE	3.	07/28/20	PLANNING BOARD COMMENTS		
NA	2.	06/02/20	NO CHANGE		TH OF
DATE	1.	04/10/20	PER PEER REVIEW		DAVI NOE KELL
02/14/20	REV	DATE	REVISION	BY	KELL CIVI
SHEET 12 of 12		MARCUS PARTNERS			
FILE # 2019-127-DT05		176— 210 GROVE STREET FRANKLIN, MA			
JOB # F: \P\2019–127			DETAIL		P.E GR en ee Da -0:
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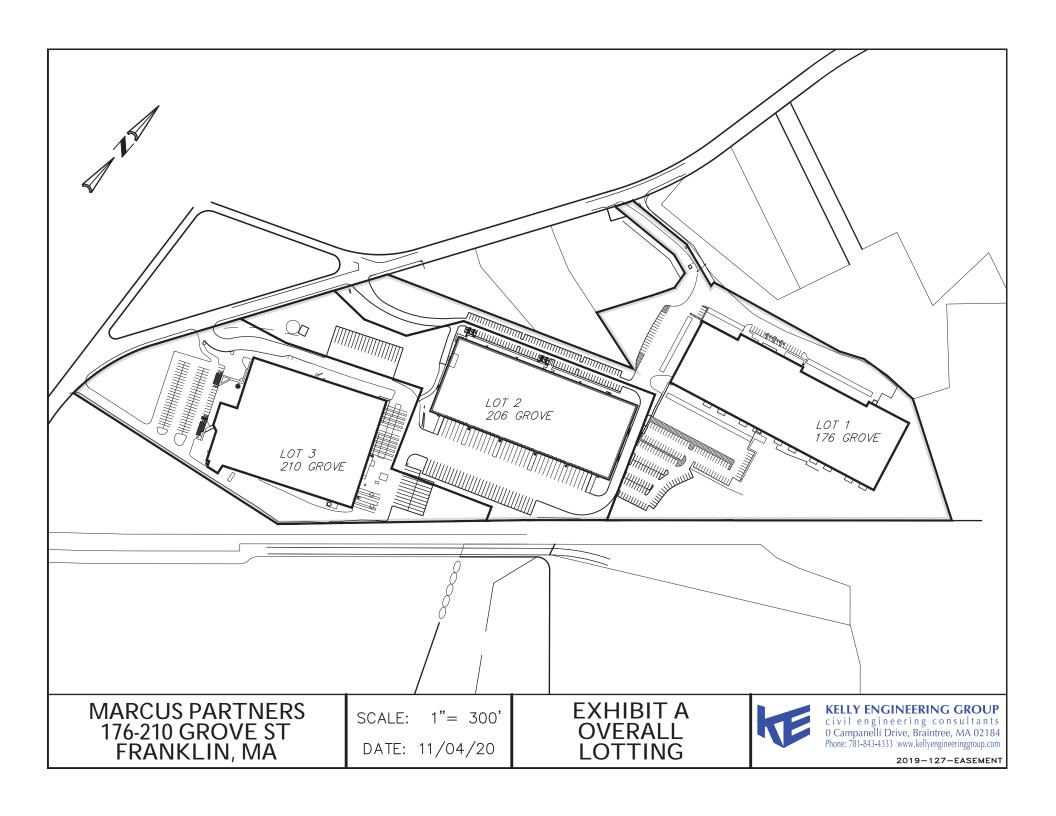
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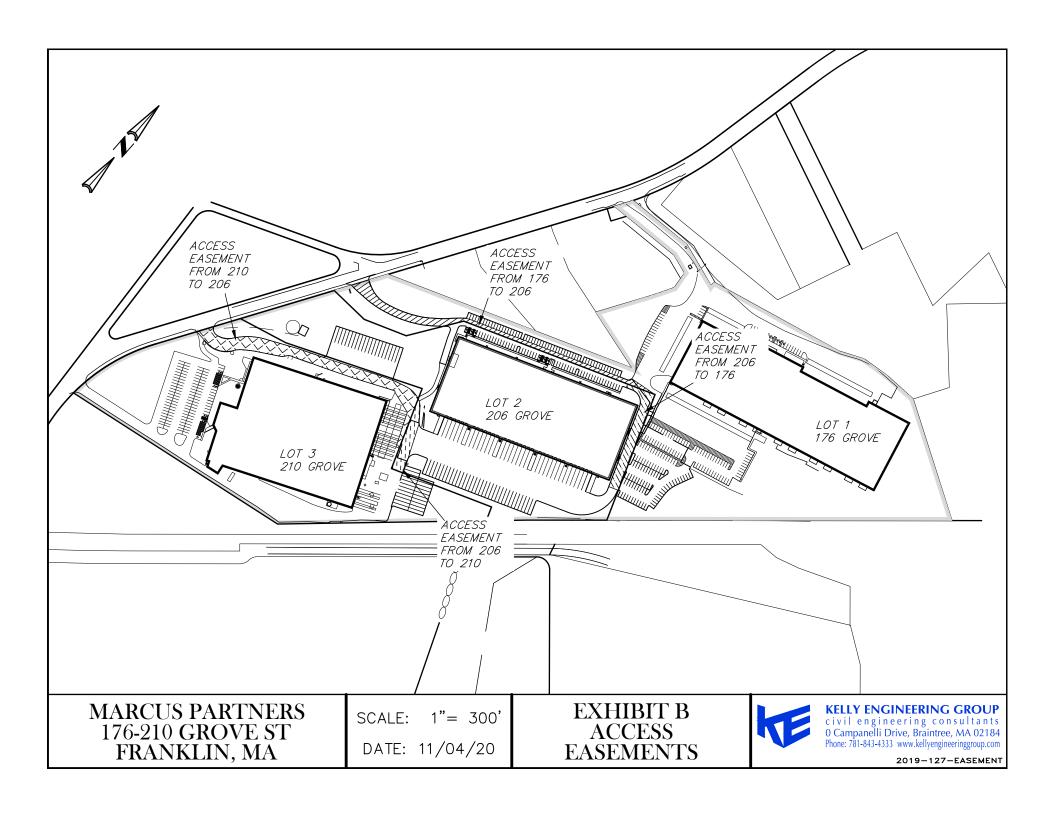
0 Campanelli Drive, Braintree, MA 02184 Phone: 781-843-4333 www.kellyengineeringgroup.com

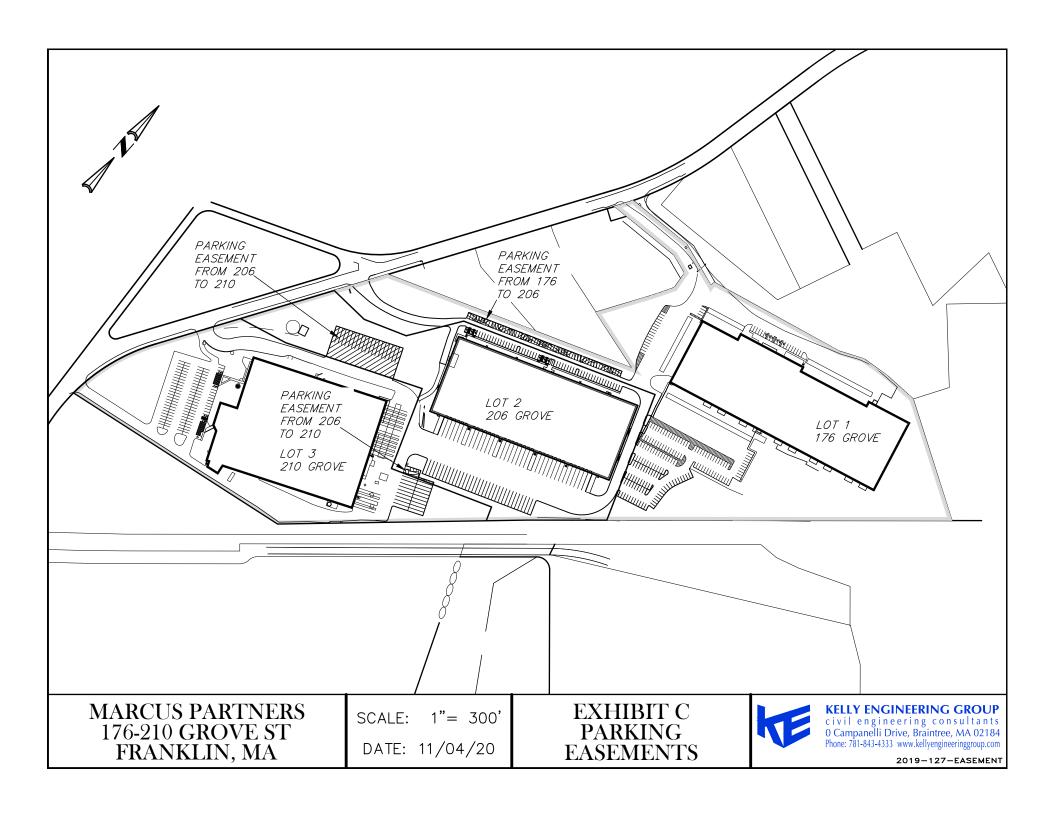
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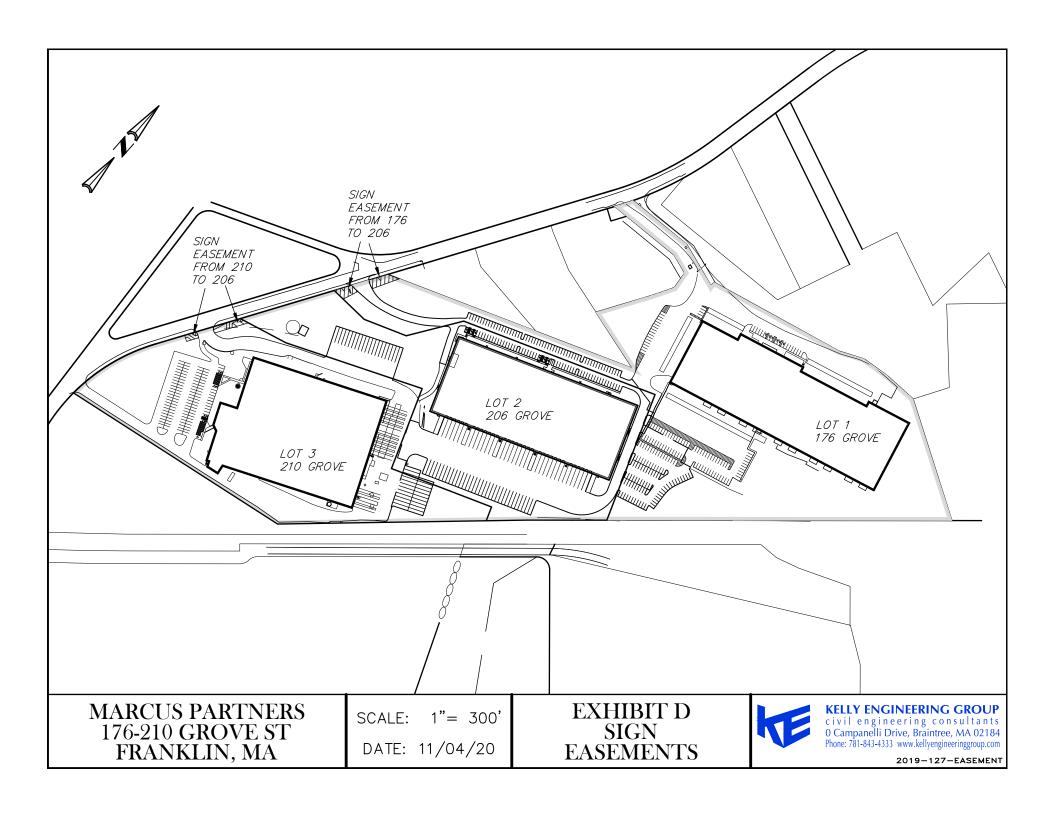
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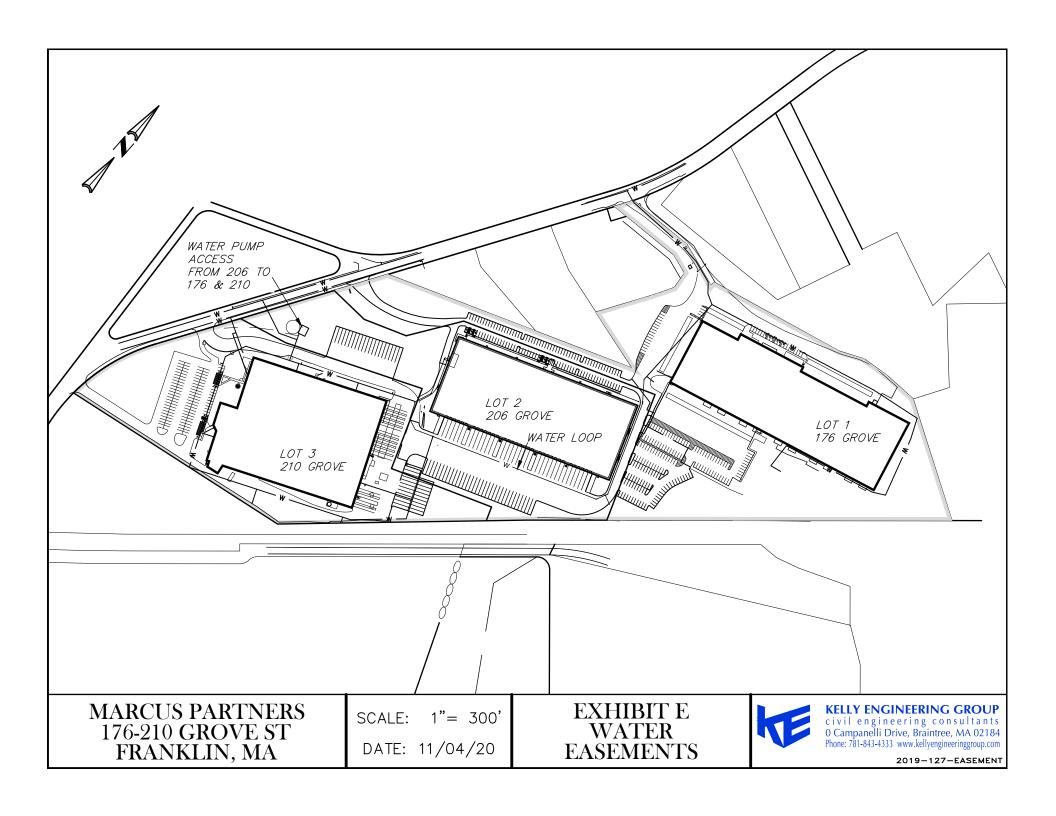
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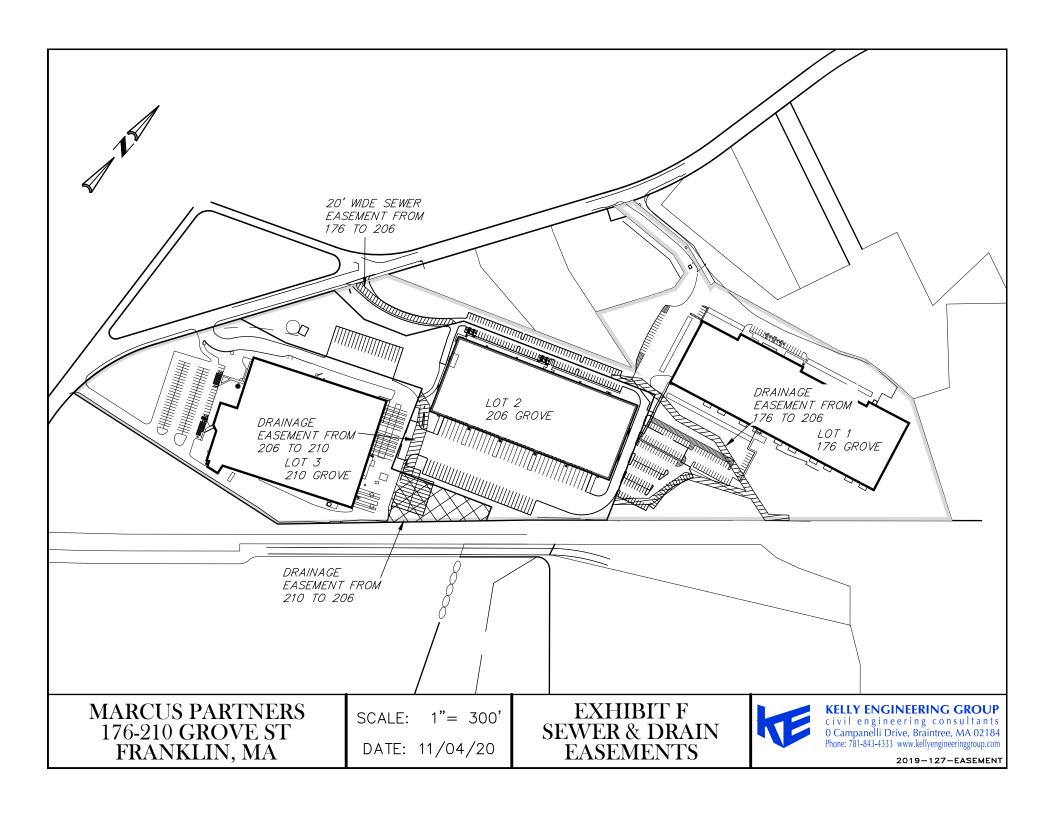


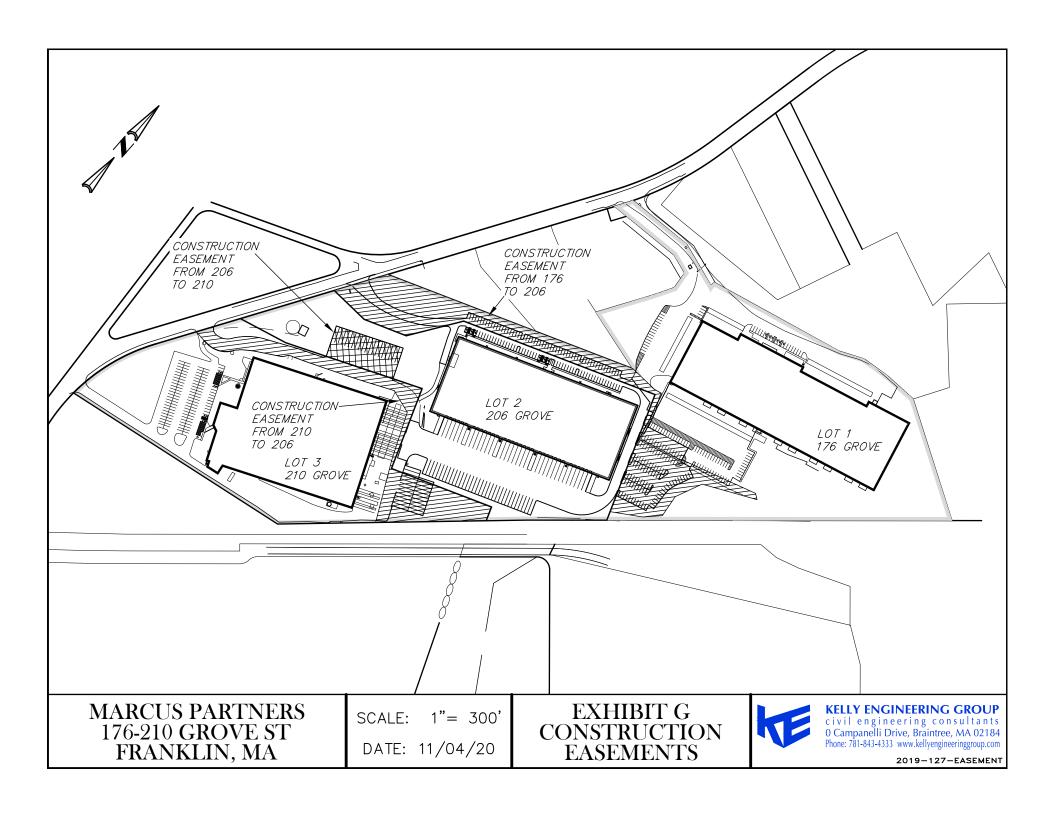












# 176-210 Grove Street

Franklin, Massachusetts

### Landscape Permit Submission Set

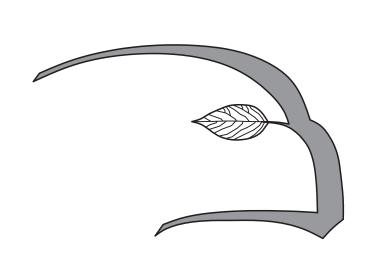
LIST	OF DRAWINGS:	Set Date
L1	Landscape Master Plan	11/5/20
L2	Site Planting Plan	11/5/20
L3	Enlargement Planting Plans and Plant List	11/5/20
D1	Planting Details	11/5/20
D2	Planting Notes	11/5/20

Applicant:

MCP III 176 Grove LLC & MCP III 210 Grove LLC 260 Franklin Street, Suite 620 Boston, MA 02110

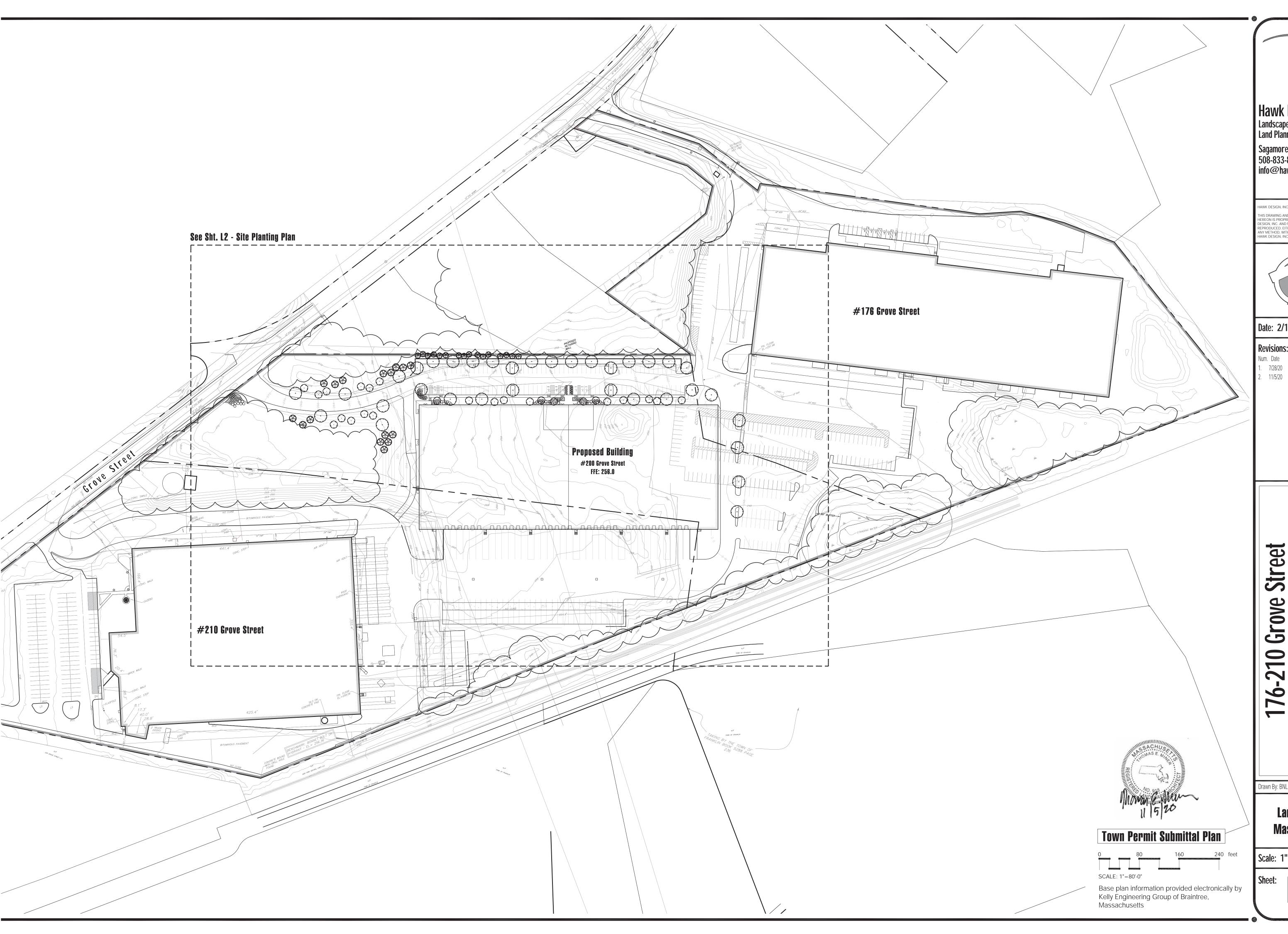
Tel: 617.556.5200

Prepared By:



Hawk Design, Inc.
Landscape Architecture **Land Planning** Sagamore, MA 508-833-8800

info@hawkdesigninc.com





Hawk Design, Inc. Landscape Architecture Land Planning

Sagamore, MA 508-833-8800 info@hawkdesigninc.com

HAWK DESIGN, INC. 2020

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Date: 2/14/20

**Revisions:** 

Num. Date Description 1. 7/28/20 Final Town Submission 11/5/20 Revise planting plan as per site plan revisions

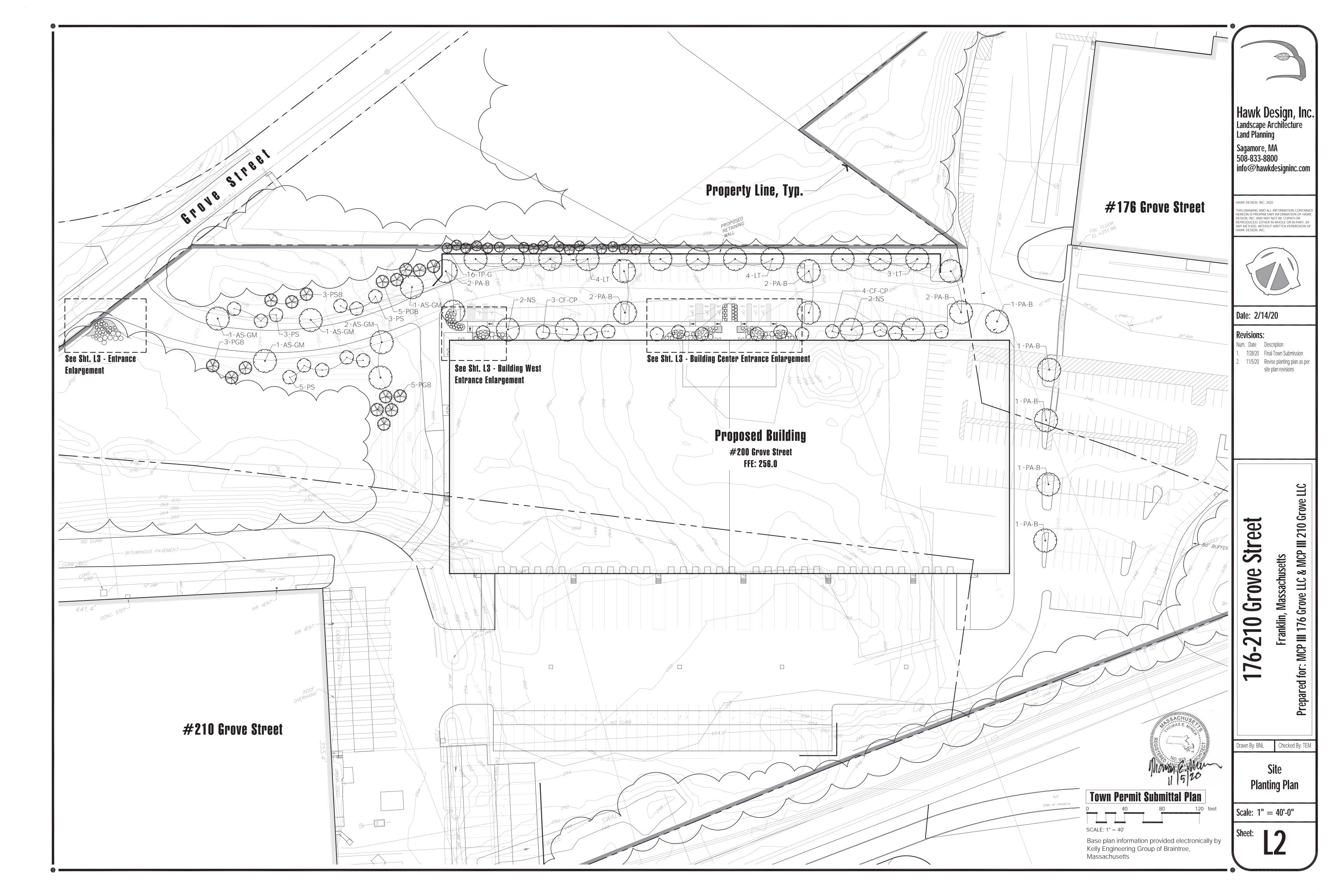
Street

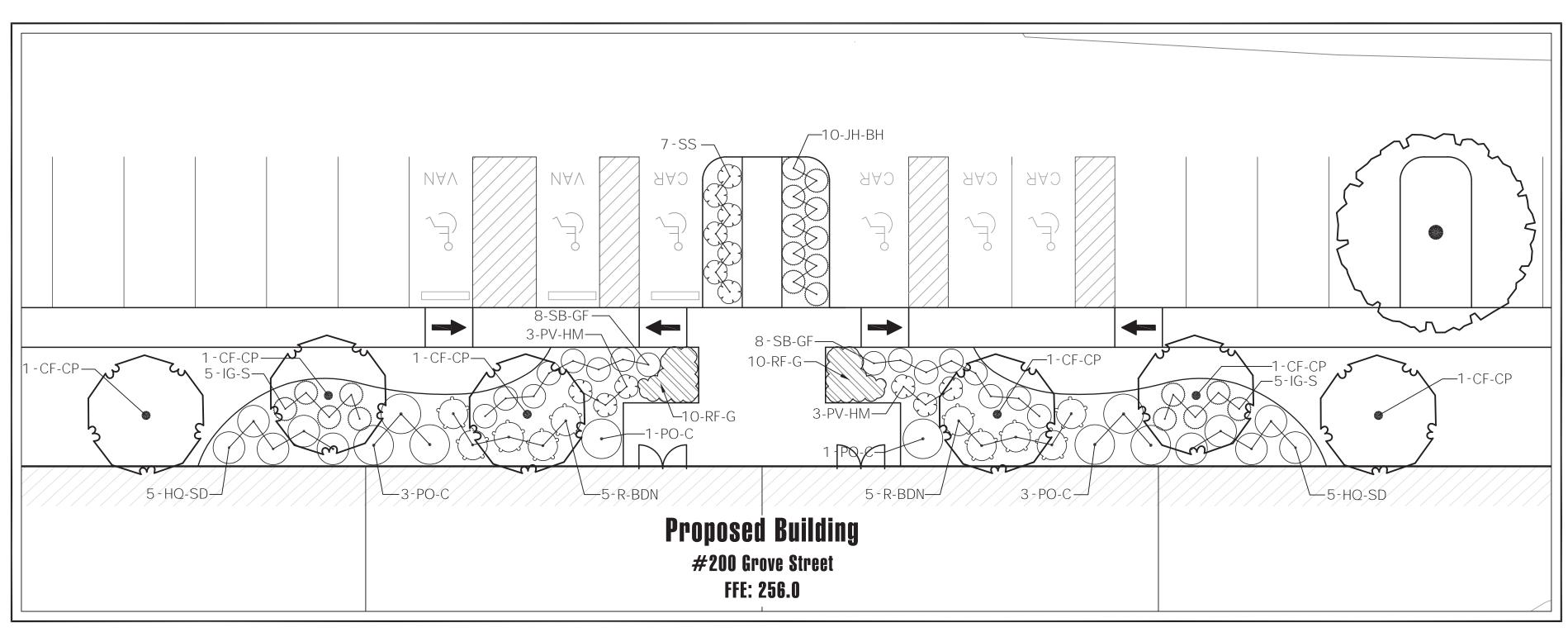
Prepared for: MCP III 176 Grove LLC & MCP III 210 Grove LLC

Drawn By: BNL Checked By: TEN

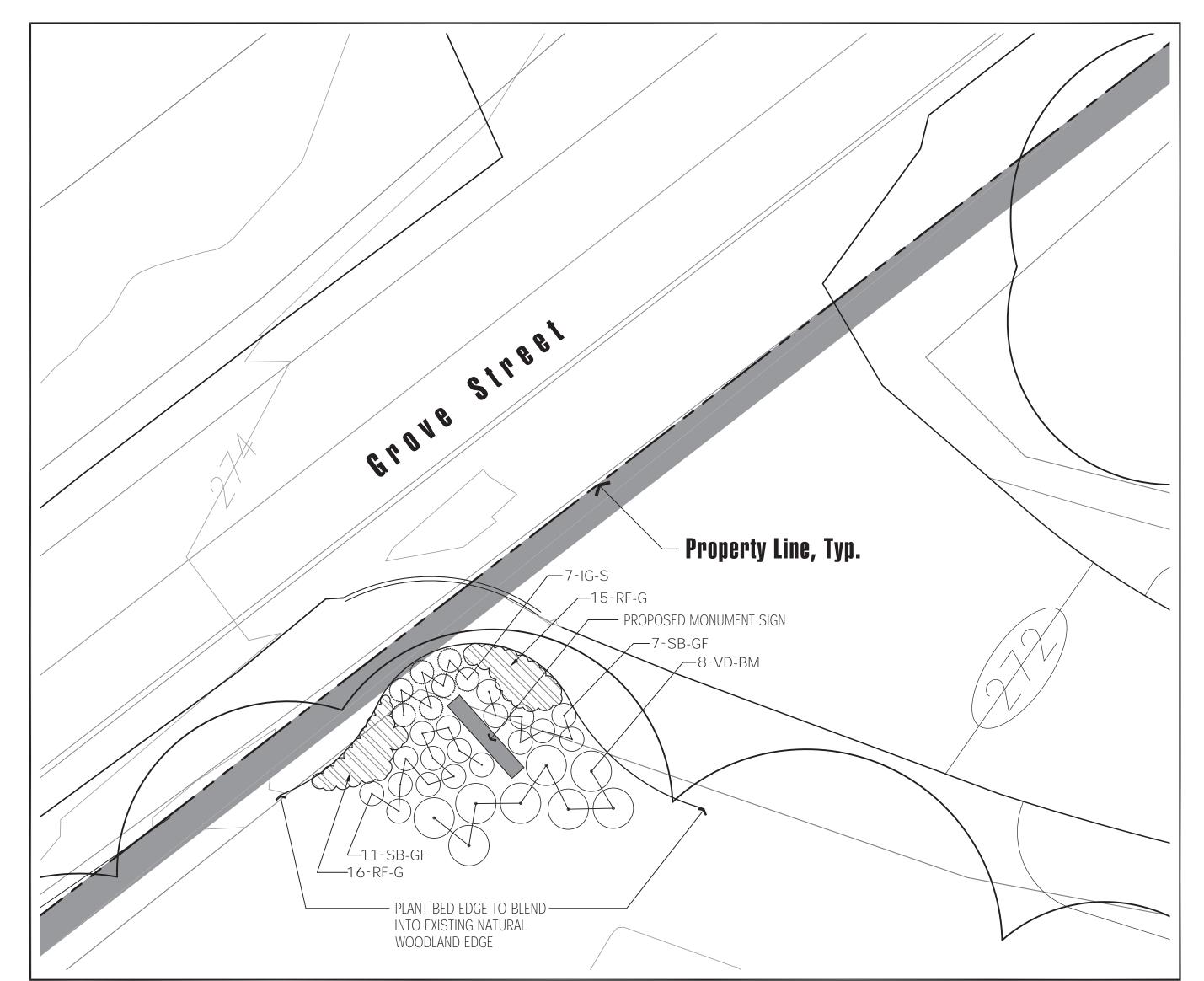
Landscape **Master Plan** 

Scale: 1" = 80'-0"

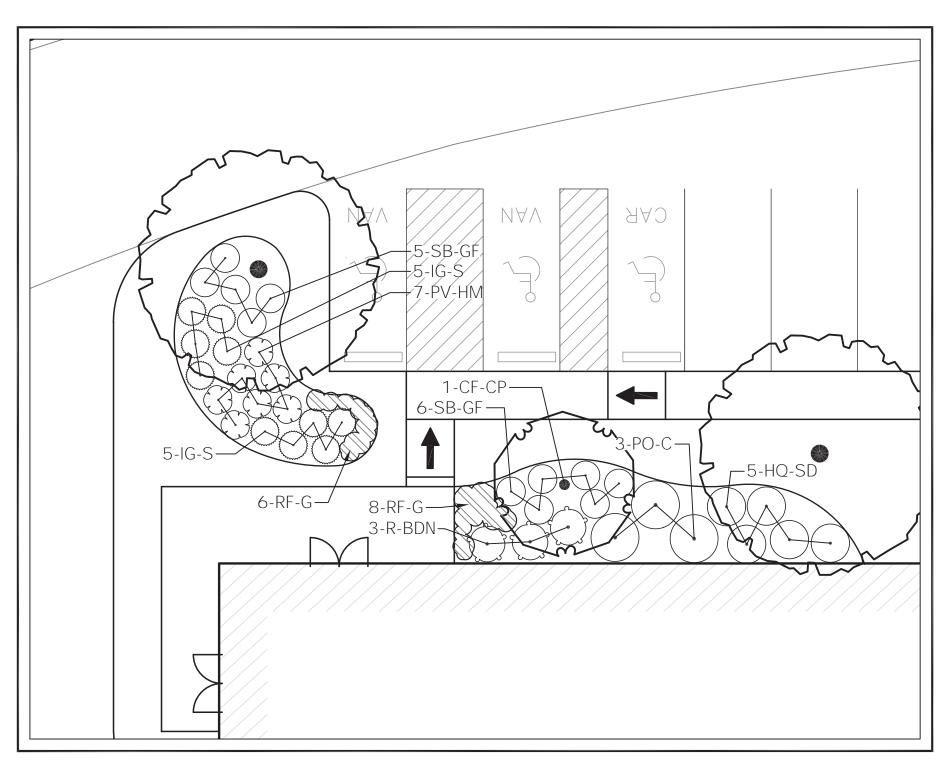




**¬ Building Center Entrance Enlargement** 



Property Entrance Enlargement



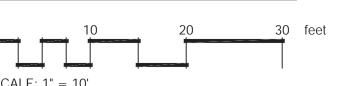
**Building West Entrance Enlargement**Scale: 1"=10'-0"

### **Plant Schedule**

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	PLANT SIZE
AS-GM	6	Acer saccharum `Green Mountain`	Green Mountain Sugar Maple	B & B	3-3.5" CAL.	
LT	11	Liriodendron tulipifera	Tulip Tree	B & B	3-3.5" CAL.	
NS	4	Nyssa sylvatica	Black Tupelo	B & B	3-3.5" CAL.	
PA-B	13	Platanus acerifolia `Bloodgood`	Bloodgood London Plane Tree	B & B	3-3.5" CAL.	
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	PLANT SIZE
PG8	13	Picea glauca	White Spruce	B & B		8-10` HT.
PS8	3	Pinus strobus	White Pine	B & B		8-10` HT.
TP-G	16	Thuja plicata `Green Giant`	Green Giant Arborvitae	B & B		8-10` HT.
FLOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	PLANT SIZE
CF-CP	14	Cornus florida `Cherokee Princess`	Cherokee Princess Dogwood	B & B	3-3.5" CAL.	
PS	11	Prunus sargentii	Sargent Cherry	B & B	3-3.5" CAL.	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
HQ-SD	15	Hydrangea quercifolia `Sikes Dwarf`	Sikes Dwarf Oakleaf Hydrangea	B & B		2-2.5` HT.
IG-S	27	Ilex glabra `Shamrock`	Shamrock Inkberry	B & B		2-2.5` HT.
JH-BH	10	Juniperus horizontalis `Bar Harbor`	Bar Harbor Creeping Juniper	Cont.		18-24" SPD
PO-C	11	Physocarpus opulifolius `Coppertina`	Coppertina Ninebark	B & B		4-5` HT.
PV-HM	13	Panicum virgatum `Heavy Metal`	Heavy Metal Switch Grass	2 GAL		
R-BDN	13	Rhododendron `Boule de Neige`	Boule de Neige Rhododendron	B & B		2-2.5` HT.
SB-GF	45	Spiraea x bumalda `Goldflame`	Goldflame Spirea	Cont.		18-24" HT.
SS	7	Schizachyrium scoparium	Little Bluestem Grass	2 GAL		
VD-BM	8	Viburnum dentatum `Blue Muffin`	Blue Muffin Arrowwood Viburnum	4-5` HT.		
PERENNIALS / GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT		
RF-G	65	Rudbeckia fulgida `Goldsturm`	Goldsturm Coneflower	1 GAL.		+



### **Town Permit Submittal Plan**

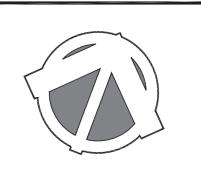


Base plan information provided electronically by Kelly Engineering Group of Braintree, Massachusetts

Hawk Design, Inc.
Landscape Architecture Land Planning Sagamore, MA 508-833-8800 info@hawkdesigninc.com

HAWK DESIGN, INC. 2020

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Date: 2/14/20

### **Revisions:**

Num. Date Description . 7/28/20 Final Town Submission 11/5/20 Revise planting plan as per site plan revisions

Street

Franklin, Massachusetts **Grove** 176-210

Prepared for: MCP III 176 Grove LLC & MCP III 210 Grove LLC

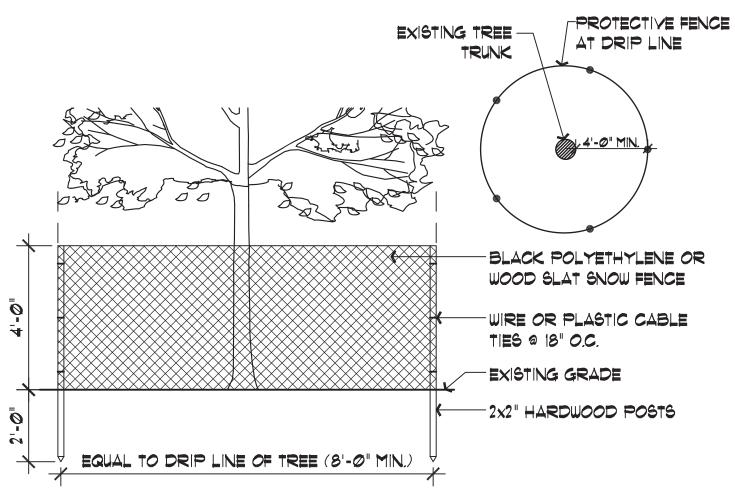
Drawn By: BNL Checked By: TEM

**Enlargement Planting** 

**& Plant List** 

Scale: 1" = 10'-0"

Sheet:



#### NOTES.

. PROTECTIVE FENCE TO REMAIN UNTIL CONSTRUCTION IS COMPLETE.

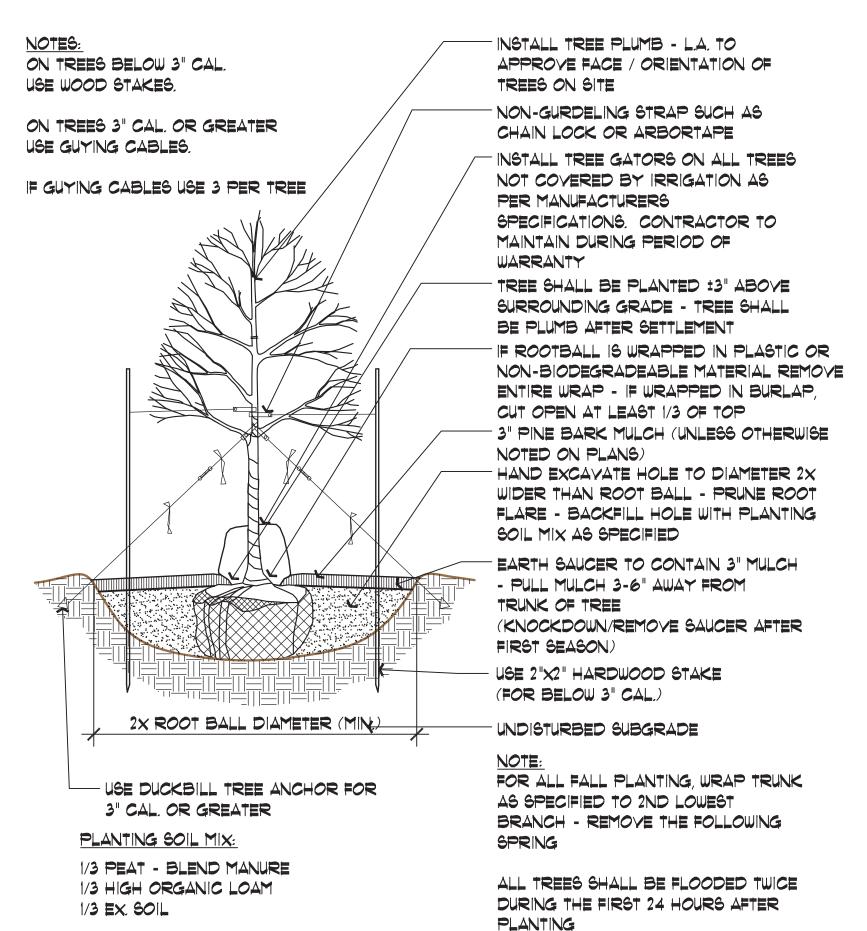
- 2. NO TREE SHALL BE REMOVED UNLESS SPECIFICALLY TAGGED FOR REMOVAL BY THE LANDSCAPE ARCHITECT
- 3. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE TREES THAT ARE TO REMAIN.
- 4. DO NOT NAIL BOARDS OR FENCING TO TREES DURING CONSTRUCTION.
- 5. ANY EXCAVATING WITHIN DRIPLINE MUST BE APPROVED BY LANDSCAPE ARCHITECT AND MUST BE HAND-DUG. CONTRACTOR SHALL NOT CUT ANY ROOTS AND/OR BRANCHES UNLESS APPROVED BY LANDSCAPE ARCHITECT.
- 6. ROOTS EXPOSED AND/OR DAMAGED DURING GRADING & CONSTRUCTION OPERATIONS SHALL BE CUT OFF CLEANLY INSIDE THE EXPOSED OR DAMAGED AREA AND TOPSOIL BE PLACED OVER THE ROOTS IMMEDIATELY SEEDED POOTS SHALL NOT BE CUT IN AN AREA INSIDE DRIP LINE OF THE TREE BRANCHES
- IMMEDIATELY. FEEDER ROOTS SHALL NOT BE CUT IN AN AREA INSIDE DRIP LINE OF THE TREE BRANCHES.

  7. ROOTS GREATER THAN I" DIAMETER SHALL NOT BE CUT UNLESS OTHERWISE APPROVED BY THE
- LANDSCAPE ARCHITECT.

  8. STOCKPILED MATERIALS OR UNNECESSARY VEHICULAR TRAFFIC SHALL NOT BE ALLOWED OVER ANY TREE ROOT SYSTEM.
- 9. INSPECT FENCE ON WEEKLY BASIS AND REPAIR DAMAGE IMMEDIATELY.



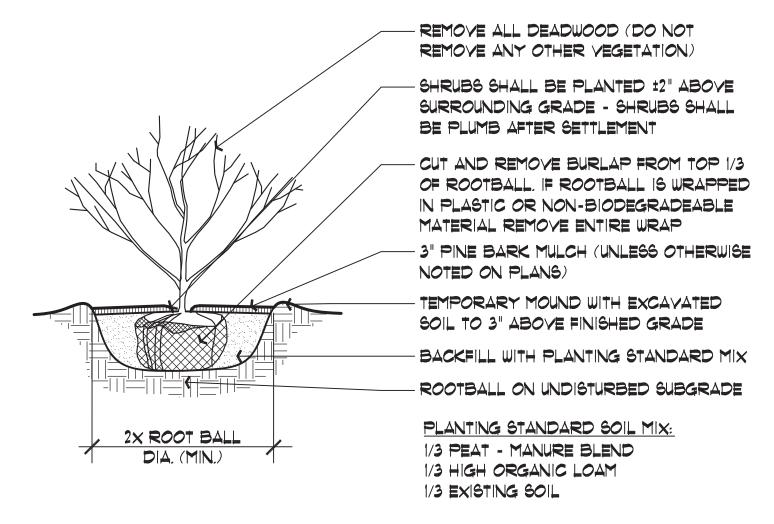
2 Deciduous Tree Planting
Not to Scale



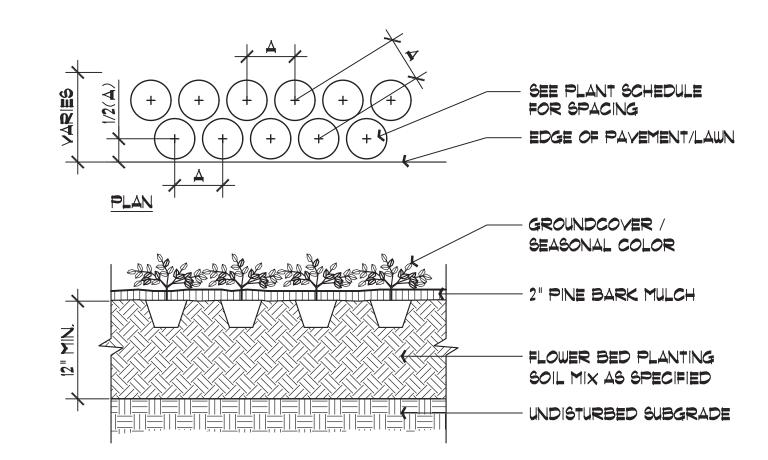
BRANCHES.
E
RANY TREE

USE 2"X2" HARDWOOD STAKE LOCATE ANCHOR STAKE 18" AWAY FROM TREE TRUNK ON SIDE OF PREVAILING WIND. INSTALL TREE PLUMB - L.A. TO APPROVE FACE/ORIENTATION OF TREES ON SITE TREE SHALL BE PLANTED ±3" ABOVE SURROUNDING GRADE - TREE SHALL BE PLUMB AFTER SETTLEMENT - IF ROOTBALL IS WRAPPED IN PLASTIC OR NON-BIODEGRADEABLE MATERIAL REMOVE ENTIRE WRAP - IF WRAPPED IN BURLAP, CUT OPEN AT LEAST 1/3 OF TOP & REMOVE ALL TWINE/ ROPE. PULL WIRE CAGE BACK DOWN INTO PLANTING HOLE 1/3 HEIGHT OF ROOTBALL - EXCAYATE HOLE TO DIAMETER 2X WIDER THAN ROOT BALL - BACKFILL HOLE WITH PLANTING MIX AS SPECIFIED - 3" PINE BARK MULCH (UNLESS OTHERWISE NOTED ON TEMPORARY EARTH SAUCER TO CONTAIN 3" MULCH -PULL MULCH 3-6" AWAY FROM TRUNK OF TREE (KNOCKDOWN/REMOVE SAUCER AFTER FIRST SEASON) UNDISTURBED SUBGRADE PLANTING STANDARD SOIL MIX: 1/3 PEAT - MANURE BLEND X ROOT BALL DIAMETER (MIN.) 1/3 HIGH ORGANIC LOAM 1/3 EXISTING SOIL

### Conifer Tree Planting Not to Scale



### Shrub Planting Not to Scale



Seasonal Color / Perennial / Groundcover Planting

Not to Scale

### SCHEDULE OF TOPSOILS & ADDITIVES

LOCATION	DEPTH	DESCRIPTION
GENERAL PLANTING BEDS	6"	1/3 PEAT - MANURE BLEND 1/3 HIGH ORGANIC LOAM 1/3 EXISTING SOIL
FLOWER BED6	6"	SCREENED LOAM  1/3 PEAT - MANURE BLEND LIME - PELATIZED OR  GROUND (50 LB. PER 100 SF.)  GROUND BONE MEAL (50 LB. PER 100 SF.)  10-10-10 ORGANIC FERTILIZER (50 LB. PER 5000 S
LAWNS - SOD & SEED	6"	6" SCREENED LOAM
PITS/TREE WELLS "STANDARD MIX" FOR BACKFILL	12"	1/3 PEAT - MANURE BLEND SOIL MIX 'A' - 1/3 HIGH ORGANIC LOAM 1/3 EXISTING SOIL
PITS/TREE WELLS "LITE WEIGHT MIX"	12"	70% LIGHT WEIGHT SHALE SOIL MIX 'B' - 20% SAND 10% COMPOST
PITS/TREE WELLS "STRUCTURAL MIX"	12"	SOIL MIX 'C' - MIX COMPOSITION TO BE SUPPLIED BY LANDSCAPE ARCHITECT.

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Sagamore, MA
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HAWK DESIGN, INC. 2020

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Date: 2/14/20

Revisions:

Num. Date Description
1. 7/28/20 Final Town Submission
2. 11/5/20 Revise planting plan as per site plan revisions

Street

21

**'-9**/

O Grove Streeklin, Massachusetts

210 Grove LLC

Franklin, Massachusetts Prepared for: MCP III 176 Grove LLC & MCP III

Drawn By: BNL Checked By: TEN

Planting Details

Scale: As Noted

Sheet: D1

REGIS 10 918 ACHUS

**Town Permit Submittal Plan** 

### 10 GENERAL LANDSCAPE NOTES

#### (1) CONTRACTOR REQUIREMENTS:

A) ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS, FROM ALL FEDERAL, STATE AND LOCAL AUTHORITIES.

B) THE CONTRACTOR SHALL ARRANGE FOR AND OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE COMPLETE WORK SPECIFIED HEREIN AND SHOWN ON ALL THE DRAWINGS. THE CONTRACTOR SHALL PAY FOR ANY FEES NOT WAIVED.

#### 1.2) <u>utilities:</u>

A) LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT THE RELEVANT UTILITY COMPANIES PRIOR TO DOING ANY EXCAVATION ON THE SITE, IF ANY WORK IS TO BE DONE AROUND UNDERGROUND UTILITIES, THE APPROPRIATE AUTHORITY OF THAT UTILITY MUST BE NOTIFIED OF THE IMPENDING WORK.

B) UTILITIES SHALL BE LOCATED AND MARKED PRIOR TO ANY INSTALLATION. ADJUSTMENTS MAY BE NECESSARY IN THE FIELD TO ACCOMMODATE UTILITY LOCATIONS. REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

C) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES DONE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF SATISFACTORY REPAIR OF ALL DAMAGE IN KIND RESULTING FROM THEIR FAILURE TO

1.3) <u>Protection of existing work:</u> It shall be the contractor's responsibility to PERFORM ALL WORK IN A MANNER THAT PROTECTS WORK COMPLETED BY OTHERS, SUCH AS CURBS, UTILITIES, STORM DRAINAGE, FENCES, DRIVEWAY APRONS, DRIVES, VEGETATION, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF SATISFACTORY REPAIR OF ALL DAMAGE IN KIND RESULTING FROM THEIR FAILURE TO COMPLY.

1.4) <u>quantities:</u> a complete list of plants including a schedule of quantities, SIZES, TYPES, AND NAMES IS INCLUDED IN THIS SET OF DRAWINGS. IN THE EVENT OF DISCREPANCIES BETWEEN QUANTITIES OF PLANT IN THE PLANT LIST AND THE QUANTITIES SHOWN ON THE DRAWINGS, THE PLAN SHALL GOVERN. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF UNLABELED PLANTS IN PLAN FOR CLARIFICATION. THE LANDSCAPE ARCHITECT SHALL BE ALERTED BY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO FINAL BID NEGOTIATION.

1.5) <u>APPLICABLE PLANT MATERIALS STANDARDS:</u> ALL PLANT MATERIALS ARE TO COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, PLANTING METHODS WILL BE IN ACCORDANCE WITH SITE-SPECIFIC REQUIREMENTS.

1.6) <u>Plant Hardiness:</u> all trees and shrubs shall be nursery grown within a USDA PLANT HARDINESS ZONE, WHICH IS THE SAME AS, OR COLDER THAN, THE ZONE IN WHICH THE PROJECT IS LOCATED.

1.7) <u>Planting Seasons:</u> Planting Shall only occur during specified seasons. SPRING SEASON SHALL BE FROM MARCH I TO JUNE 15, FALL PLANTING SEASON SHALL BE FROM SEPTEMBER 15 THROUGH NOVEMBER 15. NO PLANTING SHALL OCCUR WHEN THE GROUND IS FROZEN.

1.8) <u>Plant substitutions</u>: no substitutions of products, plant types or sizes SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. REQUESTS FOR SUBSTITUTION SHALL BE IN WRITING, AND SHALL STATE THE REASON FOR THE SUBSTITUTION REQUEST, THE SUGGESTED ALTERNATIVE AND THE CHANGES IN COST. REQUESTS FOR SUBSTITUTION IN PLANT MATERIALS SHALL STATE THE NAMES OF NURSERIES THAT HAVE BEEN UNABLE TO SUPPLY THE ORIGINALLY SPECIFIED MATERIAL

1.9) THE LANDSCAPE ARCHITECT SHALL RESERVE THE RIGHT TO INSPECT ALL PLANT MATERIALS AT THE NURSERY, UPON SITE DELIVERY AND DURING INSTALLATION TO INSURE SPECIFICATIONS AND PROCEDURES ARE ADHERED TO.

1.10) MINIMUM SIZES: ALL PLANTS 3' OR GREATER IN HEIGHT OR SPREAD SHALL BE BALLED AND BURLAPPED. SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUMS ON WHICH THE PLANTS ARE TO BE JUDGED.

1.11) DEAD PLANTS: DEAD PLANTS ARE TO BE REMOVED FROM THE SITE IMMEDIATELY, AND REPLACED WITH THE SAME PLANT & SIZE REGARDLESS OF SEASON, WEEKLY FROM THE JOB BY THE CONTRACTOR, THE CONTRACTOR SHALL MAINTAIN AN UPDATED COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AND LANDSCAPE ARCHITECT AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.

1.12) <u>Plant Material Removal:</u> no existing trees shall be removed without the WRITTEN AUTHORIZATION FROM THE LANDSCAPE ARCHITECT EXCEPT WHERE NOTED ON THE PLANS. CONTRACTORS WHO REMOVE EXISTING TREES WITHOUT WRITTEN APPROVAL WILL BE REQUIRED TO MAKE REMEDIES DETERMINED BY THE GOVERNING URBAN FORESTER OR EQUIVALENT AUTHORITY, NO GRUBBING SHALL OCCUR WITHIN EXISTING TREE AREAS UNLESS SPECIFICALLY NOTED ON THE PLANS.

1.13) ALL DISTURBED AREAS NOT TO RECEIVE PLANT MATERIALS ARE TO BE LOAMED AND SEEDED AND BLENDED INTO EXISTING GRADE AND CONDITIONS. SEE SECTION 4.0.

1.14) LEDGE BOULDERS: IF DURING SITE EXCAYATION, LEDGE BOULDERS ARE AYAILABLE, THESE ARE TO BE STOCKPILED FOR USE IN EARTH BERMS IF APPLICABLE, WITH HAWK DESIGN, INC. PRIOR TO INSTALLATION. THIS ITEM WILL ONLY APPLY IF SO SPECIFIED ON DRAWINGS. BOULDERS SIZES TO BE STOCKPILED WILL RANGE FROM TWO TO FIVE FEET IN DIAMETER. SEE APPROPRIATE DETAIL FOR INSTALLATION COORDINATION.

1.15) SLEEVES: LANDSCAPE OR SITE CONTRACTOR SHALL PLACE INDIVIDUAL SLEEVES FOR LIGHTING AND IRRIGATION UNDER ANY PROPOSED WALKWAY OR VEHICULAR ROADWAY PRIOR TO INSTALLATION, COORDINATE SLEEVE LOCATIONS WITH IRRIGATION AND LIGHTING CONTRACTORS PRIOR TO INSTALLATION.

1.16) DO NOT CLOSE OR OBSTRUCT ANY STREET, SIDEWALK, ALLEY OR PASSAGEWAY WITHOUT PRIOR NOTIFICATION AND PERMISSION. CONDUCT OPERATIONS AS TO INTERFERE AS LITTLE AS POSSIBLE WITH THE USE ORDINARILY MADE OF ROADS, DRIVEWAYS, ALLEYS, SIDEWALKS OR OTHER FACILITIES NEAR ENOUGH TO THE WORK TO BE EFFECTED THEREBY.

### 20 PLANTING MATERIALS

2.1 PLANTING MATERIAL ITEMS IN SECTION 2.0 ARE TO BE INCORPORATED DURING PLANT INSTALLATION UNLESS OTHERWISE DEEMED UNNECESSARY IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS. SEE SECTION 3.1.

MULCH - MULCH WILL BE DOUBLE-SHREDDED PINE BARK MULCH.

- TREES AND SHRUBS SHALL RECEIVE AN EVEN 3" MULCH LAYER.

- GROUNDCOYERS, PERENNIALS AND ANNUALS SHALL RECEIVE AN EVEN 2" MULCH LAYER.

MANURE- TO BE WELL ROTTED, ODORLESS, UNLEACHED COW MANURE, CONTAINING NOT MORE THAN 15% BEDDED MATERIALS SUCH AS STRAW, WOOD CHIPS OR SHAYINGS, AGED NOT LESS THAN TWO YEARS OLD

HERBICIDE - A PRE-EMERGENCE WEED KILLER IS TO BE USED ON ALL LAWN AND PLANTING AREAS PRIOR TO INSTALLATION AS PER MANUFACTURER'S SPECFICATIONS. \*HERBICIDES ARE NOT TO BE APPLIED IN RESTRICTED CONSERVATION AREAS.

FERTILIZER - ALL TREES AND SHRUBS TO HAVE SLOW RELEASE PACKET OR PELLET PLACED INTO THE PLANT PIT WITH A MINIMUM ANALYSIS OF 10-10-10. ALL GROUNDCOVERS, PERENNIALS AND ANNUALS ARE TO RECIEVE A BROADCAST APPLICATION OF A 14-14-14 FERTILZER AT 3 LB PR 100 SQ. FT. APPLY AS PER MANUFACTURER'S INSTRUCTIONS. \*FERTILIZERS ARE NOT TO BE APPLIED IN RESTRICTED CONSERVATION AREAS.

TOPSOIL- ACCEPTABLE TOPSOIL SHALL BE FERTILE, FRIABLE NATURAL LOAM, UNIFORM IN COMPOSITION, FREE OF STONES, LIMBS, PLANTS AND THIER ROOTS, DEBRIS AND OTHER EXTRANEOUS MATTER OVER ONE INCH IN DIAMETER, THE SOIL SHALL BE CAPABLE OF SUSTAINED PLANT GROWTH AND HAVE A 5% MINIMUM ORGANIC CONTENT. IN SITUATIONS WHICH REQUIRE A CUSTOM TOPSOIL OR STRUCTURAL SOIL, THE SOIL MIXTURE SPECIFICATION WILL BE PROVIDED BY THE LANDSCAPE ARCHITECT.

SOIL AMENDMENTS: APPLY AS NECESSARY ACCORDING TO SOIL TEST RESULTS, AS PER MANUFACTURES SPECIFICATIONS.

<u>ANTI-DESICCANT</u>- "WILT PRUF" NCF OR EQUAL APPLY AS PER MANUFACTURERS' SPECIFICATIONS.

3.1) S<u>oil testing:</u> Landscape contractor shall provide a certified soil analysis PRIOR TO ANY PLANT INSTALLATION TO DETERMINE ANY NECESSARY AMENDMENTS TO THE EXISTING SOIL CONDITIONS FOR SEEDING AND PLANTING, THE ANALYSIS WILL ALSO BE REQUIRED FOR ESTABLISHING THE FERTILIZER PROGRAM REQUIRED, COORDINATE RESULTS AND PROVIDE WRITTEN RECOMMENDATIONS TO HAWK DESIGN, INC. 15 DAYS PRIOR TO INSTALLATION.

3.2) ALL PLANTS SHALL BE TRANSPORTED TO THE SITE IN COVERED TRUCKS, TARPAULIN COYERS SHALL BE UTILIZED TO PREVENT WIND DAMAGE OF LOAD.

3.3) DELIVER PLANT MATERIALS IMMEDIATELY PRIOR TO PLACEMENT, KEEP PLANT MATERIALS MOIST, DO NOT STORE PLANT MATERIAL ON PAYED AREAS, ROOTS OR BALLS SHALL BE PROTECTED FROM THE SUN OR DRYING WINDS, AS REQUIRED BY TEMPERATURE OR WIND CONDITIONS, APPLY ANTI-DESICCANT EMULSION TO PREVENT DRYING OUT OF PLANT MATERIALS.

### 3.4) CONDITIONS FOR PLANT REJECTION:

A) REJECT PLANTS WHEN BALL OF EARTH SURROUNDING ROOTS HAS BEEN CRACKED OR BROKEN PREPARATORY TO OR DURING THE PROCESS OF PLANTING.

B) WHEN BURLAP, STAYES AND ROPES REQUIRED IN CONNECTION WITH TRANSPLANTING HAVE BEEN DISPLACED PRIOR TO ACCEPTANCE.

C) WIND DAMAGED PLANT MATERIAL FROM POOR TARPAULIN COVER PROCEDURES ARE SUBJECT TO REJECTION.

3.5) ALL PLANT MATERIAL, WHICH CANNOT BE PLANTED IMMEDIATELY ON DELIVERY, SHALL BE SET ON THE GROUND IN A SHADED LOCATION AND SHALL BE TEMPORARILY PROTECTED WITH SOIL OR OTHER ACCEPTABLE MATERIAL. TEMPORARY WATERING OR IRRIGATION SHALL BE INCORPORATED AND REGULARLY CONDUCTED ON PLANTINGS IN HOLD AREAS.

3.6) IN CASE OF CONFLICTS DURING CONSTRUCTION WITH UTILITIES, ROCK MATERIALS, TREE ROOTS OR OTHER OBSTRUCTIONS FOR THE EXCAVATION OF SHRUB BEDS AND TREE PITS. CONTACT LANDSCAPE ARCHITECT FOR APPROVED ALTERNATE LOCATIONS.

3.7) <u>Soil Permability</u>: test drainage of planting beds and pits by filling with water TWICE IN SUCCESSION, CONDITIONS PERMITTING THE RETENTION OF WATER FOR MORE THAN 24 HOURS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

### 3.8) SOIL EXCAYATIONS:

A) EXCAYATE TREE PITS AND SHRUB BEDS TO DEPTHS REQUIRED BY PLANTING DETAILS. ALL PITS SHALL BE CIRCULAR IN OUTLINE, EXCEPT FOR WHOLE BEDS. SEE APPROPRIATE PLANTNIG DETAILS.

B) SOIL EXCAVATIONS FOR BALLED & BURLAP AND CONTAINER PLANTINGS MUST BE NO LESS THAN 2X ROOT BALL DIAMETER, SEE PLANTING DETAILS. IF QUESTIONABLE SUBSURFACE SOIL CONDITIONS EXIST SUCH AS POOR DRAINAGE CONDITIONS, RUBBLE OR OBSTRUCTIONS, REPORT TO THE LANDSCAPE ARCHITECT AND CONSTRUCTION MANAGER BEFORE PLANTING.

### 3.9) GRADING:

A) VERIFY GRADES PRIOR TO PLANTING, THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTED GRADES ARE AS INDICATED ON PLANS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF ADJUSTMENTS TO PLANT PLACEMENT MAY BE REQUIRED DUE TO FIELD CONDITIONS AND FINAL GRADING.

B) POSITIVE DRAINAGE SHALL BE MAINTAINED AWAY FROM AND AROUND BUILDINGS (REFER TO ENGINEERS GRADING PLANS). REPORT ANY CONFLICTS TO HAWK DESIGN, INC. PRIOR TO INSTALLATION.

C) FINISH GRADE OF PLANTINGS SHALL BE EQUIVALENT TO FORMER EXISTING GRADE OF PLANT IN THE NURSERY.

3.10) BALLED AND BURLAPED (B&B) MATERIALS: A) CUT WIRE BASKETS ONCE IN THE PLANT PIT AND PEEL WIRE BACK.

B) TAGS AND TWINE ARE TO BE REMOVED AND BURLAP IS TO BE ROLLED BACK ONE-THIRD ON ALL B&B PLANT MATERIAL. ANY SYNTHETIC BURLAP SHALL BE COMPLETELY REMOVED FROM ANY PLANT MATERIAL

### 3.0 INSTALLATION CON'T

3.11) <u>Container Grown Stock:</u> Shall be removed from container by cutting CONTAINER AWAY TO AVOID ROOT DAMAGE TO PLANT ROOT SYSTEM. IF PLANT ROOT IS BOUND, SLICE ROOT BALLS APPROXIMATELY 2" DEEP WITH KNIFE OR SHARP SPADE.3.12) DO NOT USE MUDDY OR FROZEN SOIL TO BACKFILL PLANTINGS.

3.13) <u>WATERING:</u> THOROUGHLY WATER UNTIL SOIL IS SATURATED AROUND ALL TREES AND SHRUBS AFTER PLANTING AND THROUGHOUT THE TIME PERIOD UNTIL FINAL ACCEPTANCE FROM CLIENT, DURING DRY CONDITIONS, WATER AS REQUIRED TO MAINTAIN PLANTS IN A WILT-FREE CONDITION.

3.14) PRUNING: TREES SHALL BE PRUNED TO BALANCE TOP GROWTH WITH ROOTS AND TO PRESERVE THEIR NATURAL CHARACTER AND TYPICAL GROWTH HABIT, PRUNING SHALL BE RESTRICTED IN GENERAL TO THE SECONDARY BRANCHES AND SUCKER GROWTH. ALL CUTS TO BE FLUSH WITH TRUNK, DO NOT CUT A LEADER, THE LANDSCAPE ARCHITECT WILL REJECT ALL PLANTS DISFIGURED BY POOR PRUNING PRACTICES, ALL PRUNING CUTS SHALL REMAIN UNPAINTED.

3.15) STAKING AND GUYING: ALL TREES TO BE STAKED AND GUYED WITHIN 48 HOURS OF PLANTING. METHODS AND MATERIALS FOR STAKING AND GUYING ARE ILLUSTRATED IN INDIVIDUAL PLANTING DETAILS. NEATLY FLAG ALL GUY WIRES WITH ROT RESISTANCE YELLOW TREE MARKING RIBBON.

3.16) STAKE OUT PLANT LOCATIONS: PRIOR TO PLANTING THE CONTRACTOR SHALL LAYOUT THE EXTENT OF THE PLANT BEDS AND PROPOSED LOCATIONS FOR B&B PLANTS FOR REVIEW BY THE OWNER AND LANDSCAPE ARCHITECT.

3.17) PLANTING FIELD ADJUSTMENTS:

A) THE CONTACTOR IS TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITES.

B) LARGE GROWING PLANTS ARE NOT TO BE PLANTED IN FRONT OF WINDOWS OR UNDER BUILDING OVERHANGS. NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES IN PLANTING PLAN VS. FIELD CONDITIONS.

C) SHRUBS PLANTED NEAR HYAC UNITS ARE TO BE LOCATED SO THAT SHRUBS AT MATURITY WILL MAINTAIN ONE FOOT (1') AIRSPACE BETWEEN THE UNIT AND THE PLANT, ANY PLANTING SHOWN ADJACENT TO CONDENSER UNITS SHALL BE PLANTED TO SCREEN THE UNITS. SHOULD THE CONDENSER UNITS BE INSTALLED IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE PLAN, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE LANDSCAPE ARCHITECT AND INSTALL THE MATERIAL AROUND THE CONDENSERS AND ADJUST THE OTHER PLANTING ACCORDINGLY.

3.18) <u>Plant Bed Edges/Lines:</u> groups of shrubs, perennials and groundcovers SHALL BE PLACED IN A CONTINUOUS MULCH BED WITH SMOOTH CONTINUOUS LINES, ALL MULCHED BED EDGES SHALL BE CURVILINEAR IN SHAPE, FOLLOWING THE CONTOUR OF THE PLANT MASS, TREES LOCATED WITHIN 4 FEET OF PLANT BEDS SHALL SHARE THE SAME MULCH BEDS.

3.19) <u>A.D.A.</u> - THE AMERICAN WITH DISABILITIES ACT STANDARDS REQUIRE THAT A 7 FOOT VERTICAL CLEARANCE BE MAINTAINED FROM TREE BRANCHES TO FINISHED GRADE WHERE PEDESTRIANS SIDEWALKS AND/OR TRAILS ARE LOCATED. THE CONTRACTOR IS TO ADJUST TREE PLANTINGS IN FIELD TO SLIGHTLY MINIMIZE BRANCH OVERHANG AMD COMPLY WITH THE

320) TREE SPACING MINUMUMS: TREES SHALL BE LOCATED A MINIMUM OF 4 FEET FROM WALLS AND WALKS WITHIN THE PROJECT. IF A CONFLICT ARISE BETWEEN ACTUAL SIZE OF AREA AND PLANS, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE MATERIALS.

### 4.0 SEEDING AND SODDING

4.1) SEEDING OF LAWN AREAS: GRASS SEED APPLICATION SHALL BE SPREAD AT THE RATE OF 5 LBS. PER 1,000 SQUARE FEET, SEEDING SHALL BE ACCOMPLISHED BY MEANS OF A HYDRO-SEEDING PROCESS.

4.2) WATERING OF SEEDED AREAS: 24 HOURS AFTER HYDRO SEEDING, THE CONTRACTOR SHALL WATER THE SEEDED AREA LIGHTLY AND SUFFICIENTLY TO A DEPTH OF TWO INCHES (2") 2 TIMES A DAY (BETWEEN THE HOURS OF 7 PM AND 7 AM). UNTIL THE SEEDS ARE ESTABLISHED.

4.3) SEEDED AREA PROTECTION: THE CONTRACTOR SHALL ERECT SUITABLE SIGNS AND BARRICADES NOTIFYING THE PUBLIC TO KEEP OFF THE SEEDED AREAS UNTIL WELL ESTABLISHED. ANY TRAFFIC DAMAGE AND VANDALISM THAT MAY OCCUR PRIOR TO FINAL ACCEPTANCE OF THE WORK SHALL BE REPAIRED AND RESEEDED AT THE OWNER'S EXPENSE. ANY DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.

4.4) LAYING OF SOD: A KENTUCKY BLUEGRASS SOD MIX - BY LOCAL SOURCE AS SELECTED BY CONTRACTOR, SHALL BE FRESHLY CUT FROM THE SAME FIELD WITH 1/2 -3/4 INCHES OF SOIL. SOD SHALL BE LAID IMMEDIATELY WITH ANY STORED SOD BEING UNROLLED GRASS SIDE UP AND KEPT WATERED. LAY COURSES TIGHTLY TOGETHER WITHOUT OVERLAPPING WITH THE JOINTS STAGGERED. AFTER SODDING IS COMPLETE, ROLL LIGHTLY. THE CONTRACTOR SHALL WATER THE SODDED AREAS TO A DEPTH OF AT LEAST SIX INCHES AFTER THE SODDING PROCESS. OWNER SHALL THEN BE RESPONSIBLE FOR WATERING. THE FREQUENCY SHALL BE DETERMINED BY RAIN FALL AND WINDS WITH THE UPPER TWO OR THREE INCHES OF SOIL NOT DRYING OUT MARKEDLY.

4.5) SODDED AREA: INSPECTION AND ACCEPTANCE: FOUR WEEKS AFTER CONTRACTOR COMPLETES INSTALLATION, LANDSCAPE ARCHITECT SHALL INSPECT THE LAWN TO DETERMINE THE ACCEPTABILITY OF THE INSTALLATION, SODDED AREAS FAILING TO SHOW ADEQUATE ROOTING INTO THE SUBSOIL, OVERLAPPING, COURSE SEPARATION, UNEVENNESS OF THE SURFACE, UNEVEN COURSE COLOR AND EXCESSIVE BROADLEAF WEED CONTENT SHALL BE REPLACED. THE COST SHALL BE BORNE BY THE CONTRACTOR EXCEPT WHERE VANDALISM OR NEGLECT ON THE PART OF OTHERS NOT UNDER THE CONTRACTORS CONTROL HAS RESULTED IN DAMAGE.

4.6) FINAL APPROYAL: SEEDED AND SODDED AREAS WILL RECEIVE FINAL APPROYAL IF COVERAGE IS FULL AND CONSISTENT, FREE OF BARE SPOTS AND WEED FREE. WHEN GRASS IS CUT AT 2" HEIGHT NO SOIL SHOULD BE VISIBLE. SOD AREAS MUST HAVE RECEIVED A MINIMUM OF TWO MOWINGS, AREAS SODDED AFTER NOVEMBER IST WILL BE ACCEPTED THE FOLLOWING SPRING - ONE MONTH AFTER THE START OF THE GROWING SEASON, IF THE ABOVE CRITERIA HAS BEEN MET.

### 50 MAINTENANCE

5.1) MAINTENANCE DURING INSTALLATION: MAINTENANCE OPERATIONS SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE AS REQUIRED UNTIL FINAL ACCEPTANCE AND THEN FOR THE GUARANTEE PERIOD, PLANTS SHALL BE KEPT IN A HEALTHY, GROWING CONDITION BY WATERING, PRUNING, SPRAYING, WEEDING AND ANY OTHER NECESSARY OPERATIONS OF MAINTENANCE. PLANT SAUCERS AND BEDS SHALL BE KEPT FREE OF WEEDS, GRASS AND OTHER UNDESIRED VEGETATION, PLANTS SHALL BE INSPECTED AT LEAST ONCE PER WEEK BY THE CONTRACTOR DURING THE INSTALLATION PERIOD AND ANY NEEDED MAINTENANCE IS TO BE PERFORMED PROMPTLY.

5.2) <u>Grass and weed control:</u> the contractor shall be responsible for MOWING ALL GRASS AROUND LANDSCAPE BEDS AND INDIVIDUAL TREES AND SHRUBS UNTIL FINAL ACCEPTANCE, WEED CONTROL AREAS SHALL INCLUDE ALL LANDSCAPE BEDS AND THE AREA WITHIN 2 FEET OF THE OUTER EDGE OF THE MULCH AREA OR INDIVIDUAL TREE/SHRUBS.

5.3) THE CONTRACTOR SHALL WATER, FERTILIZE, WEED, CULTIVATE, REMULCH, SPRAY TO CONTROL INSECT INFESTATION AND DISEASE AND PERFORM ANY OTHER GOOD HORTICULTURAL PRACTICE NECESSARY TO MAINTAIN THE PLANTS IN A LIVING HEALTHY CONDITION UPON THE TIME FOR TERMINATION OF HIS RESPONSIBILITY FOR CARE AS SET OUT HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANTS THROUGHOUT LIFE OF THE CONTRACT.

5.4) ALL PLANTS STOLEN, DAMAGED OR DESTROYED BY FIRE, AUTOMOBILES, VANDALISM OR ANY OTHER CAUSE, WITH THE EXCEPTION OF PLANTS DAMAGED OR DESTROYED BY THE OWNERS MAINTENANCE OPERATIONS, SHALL BE REPLACED BY THE OWNER PRIOR TO THE DATE OF FINAL ACCEPTANCE.

5.5) LANDSCAPE CONTRACTOR SHALL PREPARE MAINTENANCE SPECIFICATIONS AND SCHEDULE ANNUAL CARE OF ALL PLANTED AND LAWN AREAS INCLUDING FERTILIZING WEEDING, MULCHING, BED EDGING, PRUNING AND PEST PREVENTION AND TREATMENT.

### 60 PLANT MATERIAL GUARANTEE

\*CONTRACTOR SHALL GUARANTEE IN WRITING ALL PLANT MATERIAL AND LANDSCAPE IMPROVEMENTS FOR A PERIOD OF ONE YEAR. THE GUARANTEE IS TO INCLUDE THE

6.1) INSPECTIONS: PERFORM PERIODIC INSPECTIONS DURING GUARANTEE PERIOD WITH RESULTING WRITTEN REPORTS TO OWNER, PROJECT ADMINISTRATOR AND LANDSCAPE ARCHITECT STATING CONDITIONS AND RECOMMEND MAINTENANCE MODIFICATIONS. THE CONTRACTOR MUST CONTACT THE OWNER AND LANDSCAPE ARCHITECT AT LEAST 10 DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTION(S).

62) REMOVAL AND REPLACEMENT OF PLANTS PROVIDED BY CONTRACTOR TO BE DONE WITHIN THIRTY DAYS OF NOTIFICATION BY OWNER OF THEIR UNSATISFACTORY CONDITION DURING GROWING SEASONS, REPLACEMENT MATERIALS MUST BE EQUAL IN TYPE AND SIZE PER THE PROJECT'S PLANT LIST.

63) WHEN REPLACEMENT PLANT SPECIES IS EITHER NOT READILY AVAILABLE OR NO LONGER SUITABLE TO EXISTING SITE CONDITIONS WRITTEN NOTICE RECOMMENDATION OF SUBSTITUTION TO BE PROVIDED TO THE OWNER AND LANDSCAPE ARCHITECT WITHIN FIFTEEN DAYS FOR APPROVAL

6.4) REMOVAL OF TREE'S SUPPORTS AND DEAD LIMBS PRIOR TO END OF GUARANTEE INSPECTION PERIOD.

6.5) CONTINUE WITH MAINTENANCE, SEE SECTION 5.0

6.6) GUARANTEE SHALL BEGIN UPON DATE OF FINAL ACCEPTANCE FROM OWNER AND WILL CONTINUE FOR ONE YEAR.

### 1.0 SITE CLEAN UP

7.1) SITE WORK CONDITIONS: EXCESS WASTE MATERIAL SHALL BE REMOVED DAILY WHEN PLANTING IN AN AREA HAS BEEN COMPLETED, THE AREA SHALL BE CLEARED OF ALL DEBRIS, SOIL PILES AND CONTAINERS DAILY. WHERE EXISTING GRASS AREAS HAVE BEEN DAMAGED OR SCARRED DURING PLANTING OPERATIONS, THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITIONS AT HIS EXPENSE.

7.2) CLEAN PAYED AREAS UTILIZED FOR HAULING OR EQUIPMENT STORAGE AT END OF EACH WORKDAY.

1.3) MAINTAIN VEHICLES AND EQUIPMENT IN CLEAN CONDITION TO PREVENT SOILING OF ROADS, WALKS OR OTHER PAYED OR SURFACED AREAS.

1.4) REMOVE PROTECTIVE BARRIERS AND WARNING SIGNS AT TERMINATION OF LAWN ESTABLISHMENT.



Town Permit Submittal Plan



**Landscape Architecture** Sagamore, MA

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Date: 2/14/20

**Revisions:** 

Num. Date Description 7/28/20 Final Town Submission 11/5/20 Revise planting plan as per site plan revisions

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Grove

210

MCP

8

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Grove

176

for:

**Prepared** 

Checked By: TEN Drawn By: BNL

**Planting** 

Scale: N/A

Sheet: