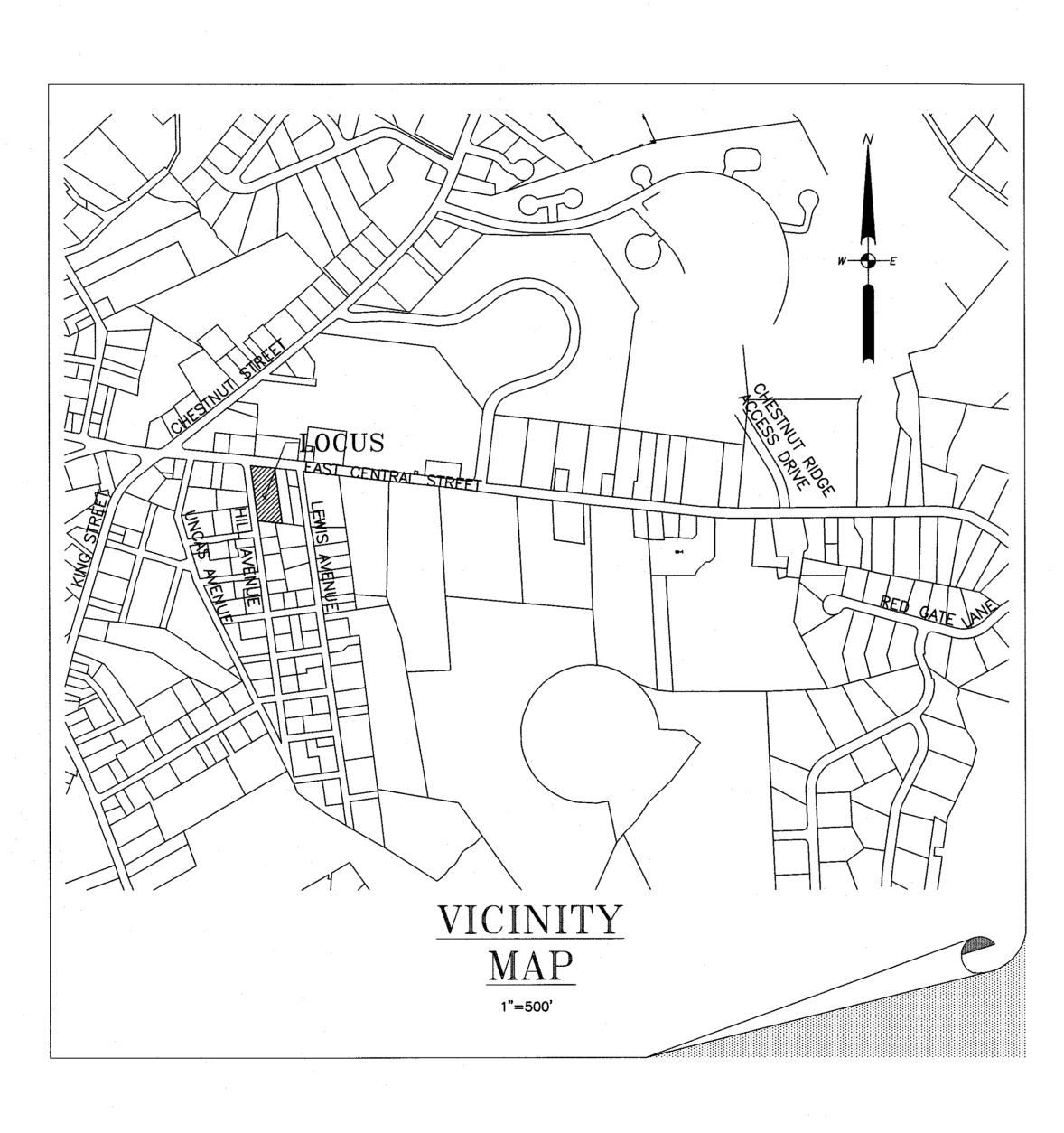
TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN, MASSACHUSETTS

INDEX

- 1. COVER SHEET
- 2. EXISTING CONDITIONS PLAN
- 3. DEMOLITION & EROSION CONTROL PLAN
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- 5. GRADING PLAN
- 6. UTILITY PLAN
- 7. LANDSCAPING PLAN
- PHOTOMETRIC PLAN
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- 12. CONSTRUCTION DETAILS



WAIVER REQUEST

- SITE PLAN AND SPECIAL PERMIT APPROVAL TO CONSTRUCT A MULTIFAMILY BUILDING WITH IN THE COMMERCIAL I ZONING DISTRICT.
- 2. REQUEST A WAIVER FROM SECTION 185-21C(1) TO ALLOW OFF STREET PARKING TO BE LOCATED WITHIN 10' OF STREET RIGHT-OF-WAY
- REQUEST A WAIVER FROM SECTION 185-21C(9)(a) TO ALLOW FOR 8.5'x19' PARKING SPACES FOR COMPACT VEHICLES WHERE THE MINIMUM REQUIRED PARKING SPACE DIMENSIONS ARE 9'x19'.

APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EXIDENCE TO DEVELOR A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG—SAFE\[\frac{7}{233}\].

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS—OF—WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

OWNE

TAJ ESTATES OF FRANKLIN II, LLC 95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

APPLICANT

TAJ ESTATES OF FRANKLIN II, LLC MOHIUDDIN AHMED, MANAGER 95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

COVER SHEET

NOVEMBER 11, 2021

DATE REVISION DESCRIPTION

01/17/22 TOWN COMMENTS - REV1

01/28/22 TOWN COMMENTS - REV2

02/17/22 TOWN COMMENTS - REV3



55 WEST CENTRAL ST. PH. (508) 528-3221
FRANKLIN, MA 02038 FX. (508) 528-7921
www.gandhengineering.com

1 OF 12

NOTES 1. THIS LAND IS ZONED COMMERCIAL I. 2. THIS SITE IS NOT LOCATED FLOOD HAZARD ZONE PER FEMA FLOOD MAP 25021C0309E, EFFECTIVE DATE 7/17/2012. 3. NO WETLANDS HAVE BEEN IDENTIFIED. 4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD. ANY DISCREPANCY WITH THE PLANS SHOULD BE REPORTED TO THE DESIGN ENGINEER UPON DISCOVERY. 5. REFER TO FRANKLIN ASSESSORS MAP 285 PARCELS 69. 6. THIS SITE IS LOCATED IN A WATER RESOURCE DISTRICT. 7. ALL REFERENCED DEEDS ARE ON RECORD AT THE NORFOLK COUNTY REGISTRY OF 8. THIS SITE IS NOT LOCATED WITHIN A NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM AREA. COMMERCIAL 1 FRANKLIN ZONING BYLAW SECTION 185 ATTACHMENT 9; LAST AMENDED 03-13-2019 BY AMENDMENT 19-831 MINIMUM LOT AREA 5,000 SF 50' MINIMUM LOT FRONTAGE 50' MINIMUM LOT DEPTH 45' MINIMUM LOT WIDTH 3 STORIES/40,15 BLDG HEIGHT MINIMUM YARDS FRONT SIDE REAR % OF LOT UPLAND COVERED BY: STRUCTURES STRUCTURES+PAVING ¹BUT NO NEW STRUCTURES SHALL BE REQUIRED TO PROVIDE A DEEPER YARD THAN THAT EXISTING ON THAT PARCEL UPON ADOPTION OF THIS AMENDMENT. ⁷PERMITTED RESIDENTIAL USES MUST OBSERVE REQUIREMENTS OF THE GENERAL RESIDENTIAL V DISTRICT FOR RESIDENTIAL USE BUILDINGS ONLY. MIXED USE BUILDINGS ARE EXEMPT FROM THIS REQUIREMENT.

LEGEND

⊞	CATCH BASIN		≎	LIGHT POLE
0	DRAIN MANHOLE		b	UTILITY POLE
(Ē)	ELECTRIC MANHOLE		-0	GUY WIRE
S	SEWER MANHOLE			SIGN
0	MANHOLE		•	WETFLAG
GV ⊠	GAS VALVE		ලා	UTILITY POLE
GM	GAS METER	GAS METER		PROP. STREET LIGHTING
÷	GAS SHUT OFF VALVE		X 000.0	SPOT ELEVATION
₩V	WATER VALVE			RIPRAP
*5	WATER SHUT OFF VA	LVE		
*	FIRE HYDRANT	-	<u> </u>	
		- EXISTING CONTOUR		
D		EXISTING L	DRAIN LIN	lE .
w		EXISTING WATER LINE		NE .
	G	EXISTING (GAS LINE	
	— s ———	EXISTING S	SEWER LII	NE

PLAN REFERENCES:

THE PLANNING BOARD.

RESOURCE DISTRICT

1. PLAN NO. 393-1997, PL. BK. 448

2. SEE ANR PLAN ENTITLED "PLAN OF LAND 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS," DATED APRIL 30, 2018, PREPARED BY GUERRIERE & HALNON, INC, PLANNING BOARD ENDORSED MAY 7, 2018 ON WHICH THE INTERIOR DEED LINE IS DEPICTED AS "TO BE REMOVED."

¹⁴THE 10 FT SIDE SETBACK IS ONLY REQUIRED

ON ONE SIDE OF LOT; IF LOT ABUTS A RESIDENTIAL DISTRICT A 20 FT SETBACK IS

REQUIRED ON THE ABUTTING SIDE.

¹⁵BUILDINGS UP TO 50 FEET IN HEIGHT,

REGARDLESS OF THE NUMBER OF STORIES,

**NON-RESIDENTIAL IMPERVIOUS COVERAGE

SHALL NOT EXCEED 80% IN A WATER

MAY BE PERMITTED BY SPECIAL PERMIT FROM

	LEG.	END		
H	CATCH BASIN		‡	LIGHT POLE
0	DRAIN MANHOLE		b	UTILITY POLE
(E)	ELECTRIC MANHOLE	30.1.00	-0	GUY WIRE
S	SEWER MANHOLE		-0-	SIGN
0	MANHOLE		•	WETFLAG
GV ⋈	GAS VALVE		ക	UTILITY POLE
GM	GAS METER		☆	PROP. STREET LIGHTING
ఈ	GAS SHUT OFF VALVE		X 000.0	SPOT ELEVATION
wv ⊠	WATER VALVE			RIPRAP
∜	WATER SHUT OFF VA	LVE		
#	FIRE HYDRANT	-		
		EXISTING (CONTOUR	
D		EXISTING I	DRAIN LIN	E .
w		EXISTING	WATER LIF	VE.
	— G ———	EXISTING	GAS LINE	
	— s ———	EXISTING :	SEWER LII	NE .

DEEP TESTS TAKEN 11/14/17 BY DN PERC. TESTS TAKEN 11/14/17 BY DN SOIL EVALUATOR DON NIELSEN SOIL EVALUATOR DON NIELSEN

					· · · · · · · · · · · · · · · · · · ·		
285.3 DTH#1	285.2 DTH#2	284.6 DTH#3	283.9 DTH#4	285.8 DTH#5	283.6 DTH#6	286.8 DTH#7	-
Ap L. 0"-12"	Ap L. 283.2	D"-24" Ap L	0"-18" Ap L. 282.4	0"-18" Ap L. 285.0	0"-10" Ap L. 	0"-12" Ap L	0"-12" APPROXIMATE #7
Bw L.S. 7.5Y5/4	Bw L.S. 7.5Y5/4	24"-42" Bw L.S.	18"-32" Bw L.S.	18"-30" Bw L.S.	10"-32" Bw L.S.	12"-24" Bw L.S. 	12"-24"
C1 M.S. 10YR 280.3	C1	42"-84" C1 S.L.	32"-84" C1 S.L.	30"-42" C1 L.S.	32"-48" C1 L.S.	24"-48" C1 L.S. 283.3	32"-42"
C2 M.S. 10YR4/4	C2	C2 M./F.S. 272.6	C2 84"_144" F.S.	42"-60" C2 F./M.S. 280.8 10YR5/6	C2 F /M S	C2 F./M.S. 10YR5/6	42"-84"
277.0	MOIST BOT HOLE NO G.W. NO MOTTLES		C3	C3 M.S. 60"-136" 10YR5/3 SOMF	C3 M.S. 10YR5/3 SOMF	C3 M.S. 120"-132" 10YR5/3 SOME 278.8	84"-96"
			NO G.W. NO MOTTL	•			

SMH R=285.17 CENTRAL STREET (COUNTY LAYOUT DATED JUNE 7, 1955) (PLAN BK. 197 PLAN NO. 849) L=36.13' R=285.17 T=25.37' Δ=103°30′/17" 12"RCP- $A=150\pm SF$ R=284.14 3382-112 *-*4 179.97′ COMMERCIAL I (F)SBDH PA VEMEN N81.56'14" WOOD FRAME x283.3 A285.0 LAWRÉNCE & DOOLEY USE: RESIDENTIAL **APPROXIMATE** DWELLING #240 х283.3 REMNANTS FENCE. PAVED DRIVEWAY OWNER MAY HAVE TITLE TO -20' STRIP PURSUANT TO MGL 183, SECTION 58 "DERELICT FEE STATUTE." TITLE AND RIGHTS TO BE DETERMINED BY OTHERS AND ARE NOT DETERMINED BY THIS PLAN. AREA=5,938±SF Edge of Woods $(0.136 \pm AC)$ with Undergrowth ROVANI USE: RESIDENTIAL DWELLING UNCAS AVENUE USE: RESIDENTIAL DWELLING LOT 1 PLAN REFERENCE 1 LOT\1A PLAN REFERENCE 2 AREA=43,756±SF $(1.005 \pm AC)$ LOT 2 PLAN REFERENCE 1 (0.3±AC) SEE PLAN REFERENCE 2 TAÝAL USE: RESIDENTIAL DWELLING R=293/2*1=283.6*€ (RECORI FROM 2 TOWN S81.56,14"W 140.26 AS-BUILT) SEWER EASEMENT ?=284.3± TAKING =278.0± (2741-135)(RECORD FROM TOWN IRWIN MARĆHAND USE: RESIDENTIAL USE: RESIDENTIAL **DWELLING** DWELLING APPROXIMATE #29 HILL AVE. LEDGE STREET

APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY

(F)SBDH

LEGAL NOTES

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OWNER

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DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

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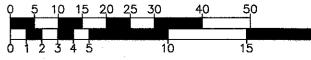
TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

EXISTING CONDITIONS

NOVEMBER 11, 2021

REVISION DESCRIPTION DATE 01/17/22 TOWN COMMENTS - REV1 01/28/22 TOWN COMMENTS - REV2 02/17/22 TOWN COMMENTS - REV3

GRAPHIC SCALE: 1"=20'





55 WEST CENTRAL ST. PH. (508) 528-3221 FRANKLIN, MA 02038 FX. (508) 528-7921 www.gandhengineering.com

JOB NO. **F4478** 2 OF 12

GENERAL EROSION CONTROL AND CONSTRUCTION NOTES

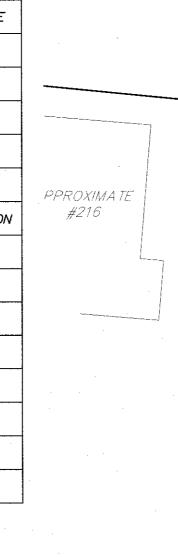
- 1. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE
- SHALL REMAIN TOTALLY UNDISTURBED. INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER EVERY
- RAINFALL EVENT. 3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES OR REPLACE AS REQUIRED TO ASSURE PROPER FUNCTION.
- 4. CONTRACTOR SHALL IMMEDIATELY REPAIR ANY AND ALL EROSION AND SEDIMENT CONTROLS FOUND TO BE FAULTY. 5. ANY AND ALL DEBRIS AND LITTER WHICH ACCUMULATES IN THE BASINS SHALL BE REMOVED WEEKLY.
- 6. THE CONTRACTOR SHALL IMPLEMENT ALL REASONABLE EROSION AND SEDIMENT CONTROLS PRIOR TO THE ACTUAL COMMENCEMENT OF CONSTRUCTION ACTIVITIES INCLUDING THE CLEARING AND/OR GRUBBING OF ANY PORTION OF THE PROPERTY. THESE MEASURES SHALL BE MAINTAINED IN EFFECT THROUGHOUT THE ENTIRE CONSTRUCTION PHASE, OR UNTIL THE SITE HAS BECOME STABILIZED WITH AN ADEQUATE VEGETATIVE COVER.
- 7. SEDIMENT BUILD UP BEHIND FILTERMITT SHALL BE MONITORED AND BE REMOVED WHENEVER IT HAS ACCUMULATED TO FOUR
- 8. CATCH BASINS SHALL BE PROTECTED WITH SILT FILTERS (SILT SACKS). INSPECT SEDIMENT FILTERS AT LEAST ONCE PER WEEK
- AND WITHIN 24 HOURS AFTER RAINFALL THAT PRODUCES RUNOFF. 9. CLEAN OR REPLACE FILTERS WITHIN 24 HOURS OF INSPECTION WHEN SEDIMENT REACHES ONE HALF OF THE FILTER SACK DEPTH. CATCH BASINS SHALL BE PROTECTED BY SEDIMENT FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SUMPS SHALL BE CLEANED WHENEVER SEDIMENT HAS ACCUMULATED TO A DEPTH OF 24 INCHES AND IMMEDIATELY FOLLOWING INSTALLATION
- OF PERMANENT PAVEMENT. 10. THE CONTRACTOR SHALL MAINTAIN AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS ON-SITE AT ALL TIMES FOR EMERGENCY OR ROUTINE REPLACEMENT AND SHALL INCLUDE MATERIALS TO REPAIR OR REPLACE SILT FENCE, MULCH SOCK, STONE FILTER DIKES OR ANY OTHER DEVICES PLANNED FOR USE
- DURING CONSTRUCTION. 11. THE CONTRACTOR IS TO INSPECT ALL CONTROLS NO LESS THAN WEEKLY, AND IN ANTICIPATION OF RAINFALL EVENTS EXPECTED TO EXCEED 1/2 INCH IN DEPTH. ALL DEFICIENCIES NOTED DURING SAID INSPECTION SHALL BE REPAIRED IMMEDIATELY AND IN NO CASE SHALL A DEFICIENCY BE ALLOWED TO GO UNCORRECTED DURING A RAINFALL EVENT. THE EROSION CONTROL DEVICES SHALL BE MAINTAINED, REINFORCED, OR REPLACED IF NECESSARY. ALL ACCUMULATED SEDIMENTS AND OTHER MATERIALS COLLECTED SHALL BE DISPOSED OF.
- 12. BY THE SEDIMENTATION CONTROL SYSTEMS SHALL BE REMOVED AS NECESSARY TO INSURE PROPER FUNCTION OF SYSTEMS AND DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH THE INTENT OF THIS PLAN.
- 13. TEMPORARY EARTH OR STONE DIKES, DRAINAGE SWALES AND/OR TEMPORARY SLOPE DRAINS SHALL BE INSTALLED WHERE OFF-SITE OR ON-SITE RUNOFF IS SUFFICIENT ENOUGH SUCH THAT IT WILL BE NECESSARY TO DIVERT THE FLOW AROUND THE SITE OR PREVENT EROSION WITHIN THE LIMITS OF WORK.
- 14. STORM DRAIN INLET PROTECTION SHALL BE USED FOR ALL EXISTING AND PROPOSED CATCH BASINS IN THE PROJECT AREA. PRIOR TO COMPLETION OF THE PROJECT, ALL CATCH BASINS WITHIN THE PROJECT AREA SHALL BE CLEANED.
- 15. ALL DISTURBED EARTH SLOPES AREA TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER, TO BE ESTABLISHED AS SOON AS POSSIBLE, DISTURBED AREAS THAT ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL RECEIVE A PERMANENT OR TEMPORARY VEGETATIVE COVER AS SOON AS FINAL CONTOURS ARE ESTABLISHED. TEMPORARY VEGETATIVE COVER IS TO BE ESTABLISHED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL NOT REQUIRE ADDITIONAL DISTURBANCE FOR PERIOD OF 30 DAYS OR MORE, IF THE SEASON PREVENTS THE ESTABLISHMENT OF VEGETATIVE COVER, DISTURBED AREAS SHALL BE MULCHED AND THEN SEEDED AS SOON AS WEATHER CONDITIONS ALLOW.
- 16. THERE SHALL BE NO DIRECT DISCHARGE OF DEWATERING OPERATIONS INTO ANY DRAINAGE SYSTEM UNLESS THIS DISCHARGE IS CLEAN AND FREE OF SETTLEABLE SOLIDS. ANY DEWATERING DISCHARGE CONTAINING SETTLEABLE SOLIDS (SEDIMENTS) SHALL BE PASSED THROUGH A SEDIMENTATION CONTROL DEVICE(FILTER BAG) TO REMOVE THESE SOLIDS. THE CONTRACTOR IS TO MAINTAIN SAID SEDIMENT CONTROL DEVICE THROUGHOUT THE ENTIRE DEWATERING OPERATION AND REPAIR DEFICIENCIES IMMEDIATELY.
- 17. ALL PLANTINGS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS THE POSSIBLE UPON COMPLETION OF GRADING AND
- 18. ALL PLANTINGS SHALL BE WATERED AND MAINTAINED BY THE CONTRACTOR TO ENSURE SURVIVAL.
- 19. EROSION CONTROL SHALL REMAIN IN PLACE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED.

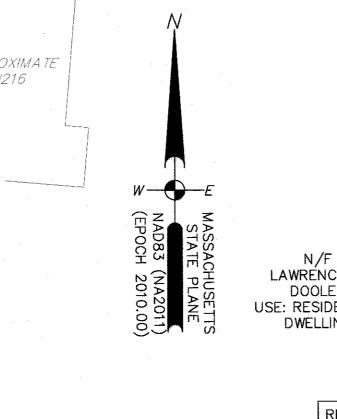
INTERIM EROSION CONTROL AND CONSTRUCTION SEQUENCE

- INSTALL EROSION CONTROL BARRIERS AND HAVE ENGINEER
- TEMPORARY STONE (3/4" 1 1/2") SHALL BE PLACED AT THE PROJECT ENTRANCE WHEN ACCESSING EXISTING PAVEMENT. SWEEPING IS REQUIRED IF FINES ARE OBSERVED IN THE PUBLIC
- RAZE THE EXISTING BUILDINGS, PAVEMENT, WALKWAYS, ETC CLEAR SITE OF ALL TREES DESIGNATED TO BE REMOVED. STOCKPILE LOAM, OR REMOVE LOAM.
- INSTALL PIPES FOR DRAINAGE SYSTEMS. INSTALL DRAINAGE
- BRING SITE TO SUB-GRADE.
- ALL SLOPES ALONG THE PROPERTY LINES SHALL BE MULCHED TEMPORARILY, IF DISTURBED.
- 9. ALL DISTURBED AREAS NOT TREATED WITH PERMANENT LOAM AND SEED SHALL BE COVERED WITH MULCH, OR OTHER EROSION CONTROL DEVISE.
- ALL CONSTRUCTION GRADES IN THE INTERIM SHALL BE SLOPED TO FLOW INTO THE TEMPORARY BASIN, WHERE POSSIBLE. THE SITE MITIGATION OF EROSION IN THOSE AREAS TO BE LANDSCAPED OR MULCHED SHALL BE TO INSTALL AS SOON AS
- 12. THE SUBSURFACE DRAINAGE SYSTEM SHALL BE INSTALLED PRIOR TO PAVEMENT INSTALLATION PROPER FILTER FABRIC SHALL BE PLACED AT INLETS TO KEEP THE STORM DRAINAGE
- CLEAN OF DEBRIS. 13. ONCE THE CURB IS INSTALLED, THE PERMANENT MULCH AND
- LANDSCAPING SHALL BE INSTALLED. 14. SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED
- 15. CLEAN ALL ON SITE CATCH BASINS, MANHOLES, PIPING, TEMPORARY BASIN, AND INFILTRATION CHAMBERS. INSTALL SILT BAGS AT EACH CATCH BASIN.
- 16. KEEP SITE SWEPT AND MAINTAINED PER STORMWATER MANAGEMENT PLAN.

LEGEND

H	CATCH BASIN		\$	LIGHT POLE
0	DRAIN MANHOLE		رط ا	UTILITY POLE
Œ	ELECTRIC MANHOLE		-0	GUY WIRE
S	SEWER MANHOLE		-0	SIGN
0	MANHOLE			WETFLAG
GV ⊠	GAS VALVE		ص	UTILITY POLE
GM	GAS METER		☆	PROP. STREET LIGHTING
Ö	GAS SHUT OFF VALVE		X 000.0	SPOT ELEVATION
₩V	WATER VALVE			RIPRAP
∜	WATER SHUT OFF VALVE			
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D		EXISTING DRAIN LINE		
w		EXISTING	IG WATER LINE	
	— <i>G</i> ———	EXISTING (GAS LINE	
	— s ———	EXISTING :	SEWER LII	NE





R=285.17

UNCAS AVENUE

APPROXIMATE

R=293.2

I = 283.6

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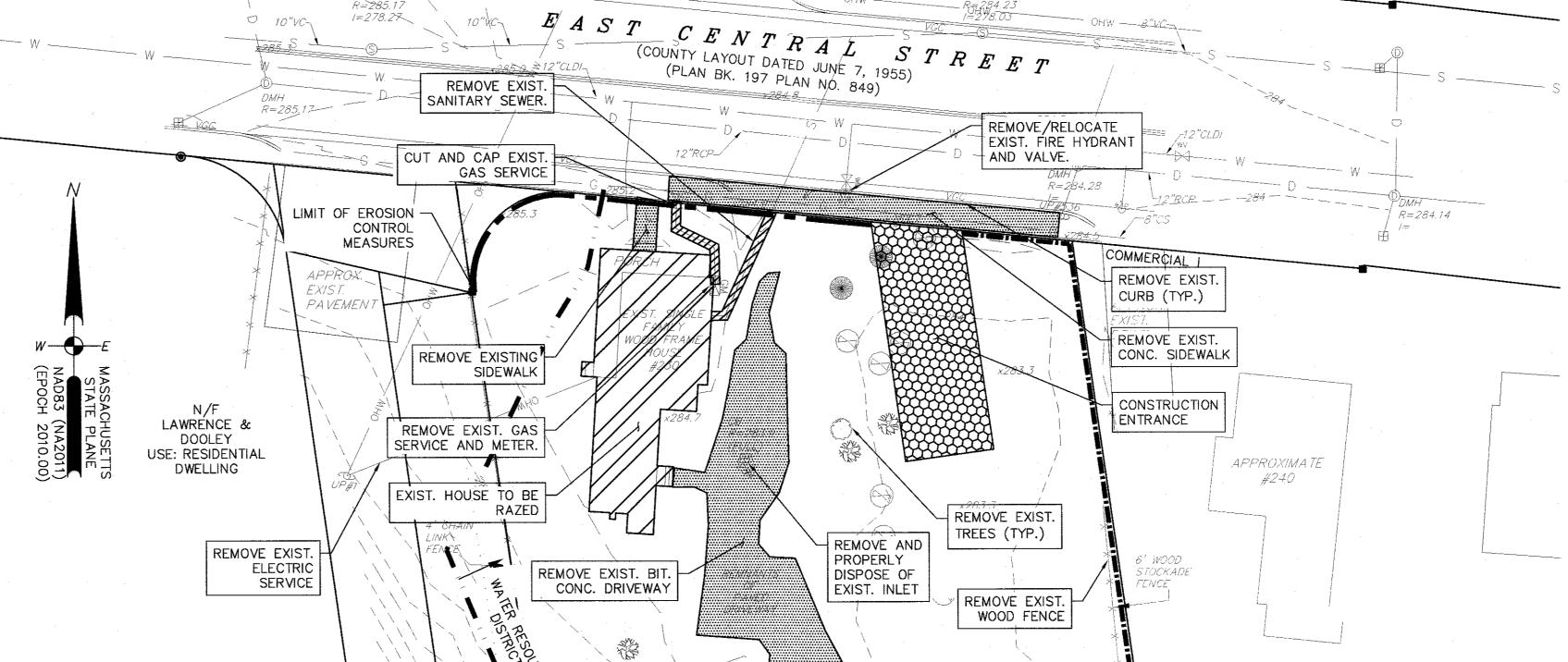
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TOWN AS-BUIL I

DEMOLITION NOTE:

- 1. RAZE AND REMOVE ALL EXISTING PAVEMENT AND BUILDINGS.
- 2. REMOVE ALL EXISTING DRAINAGE STRUCTURES AND DRAIN LINES.
- 3. REMOVE EXISTING GAS METER
- 4. REMOVE AND RELOCATE EXISTING HYDRANT.
- 5. REMOVE ALL EXISTING LIGHTING
- 6. CAP EXISTING WATER SERVICE.
- 7. COORDINATE WITH NATIONAL GRID TO RELOCATE ELECTRICAL SERVICE.
- 8. CAP AND REMOVE EXISTING SEWER SERVICE.
- 9. ALL DEMOLITION DEBRIS THAT IS REMOVED FROM THE SITE SHALL BE DISPOSED OF PROPERLY PER ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.



Edge of __Woods Undergrowth EXISTING SHED TO REMOVE EXIST. BE RAZED CHAIN LINK FENCE ROVANI USE: RESIDENTIAL EROSION CONTROL DWELLING AND LIMITS OF CLEARING (TYP.)

CONDOMINIUM USE: RESIDENTIAL **DWELLING** CLEARING AND GRUBBING TAÝAL USE: RESIDENTIAL DWELLING TEMPORARY LIMIT OF EROSION **STOCKPILE** CONTROL **MEASURES**

USE: RESIDENTIAL

DWELLING

APPROXIMATE

#29

HILL AVE.

FRANKLIN PLANNING BOARD BEING A MAJORITY LEGAL NOTES UTILITIES ARE PLOTTED_AS A COMPILATION OF

APPROVED DATE:

RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EXIBENCE TO DEVELOR A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORÉ EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE{7233}.

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DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

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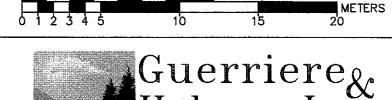
TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

DEMOLITION & EROSION CONTROL PLAN

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS - REV1
01/28/22	TOWN COMMENTS - REV2
02/17/22	TOWN COMMENTS - REV3

GRAPHIC SCALE: 1"=20"



ENGINEERING & LAND SURVEYING 55 WEST CENTRAL ST. PH. (508) 528-3221 FRANKLIN, MA 02038 FX. (508) 528-7921

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3 OF 12

COMMERCIAL

MARCHAND

USE: RESIDENTIAL

DWELLING

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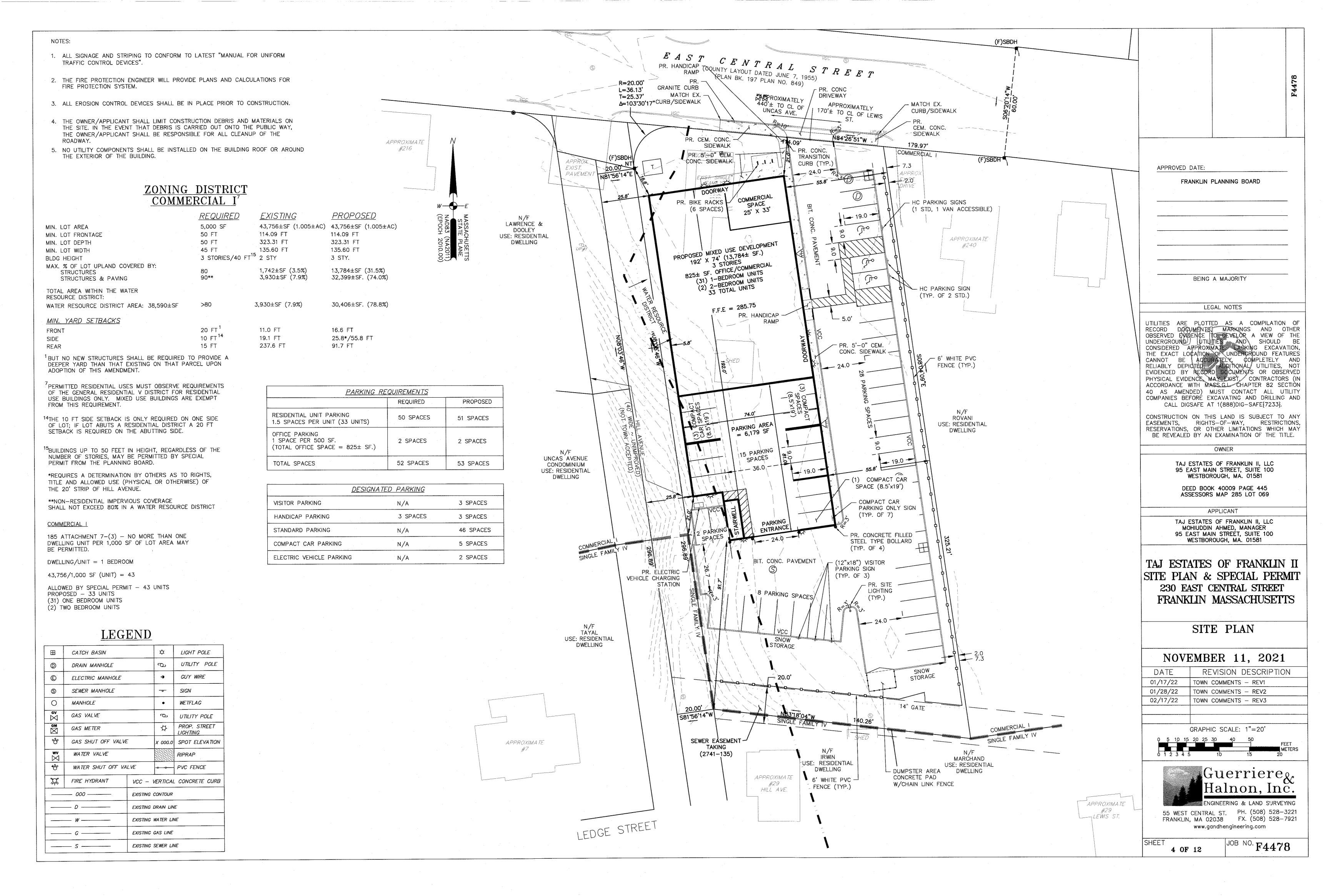
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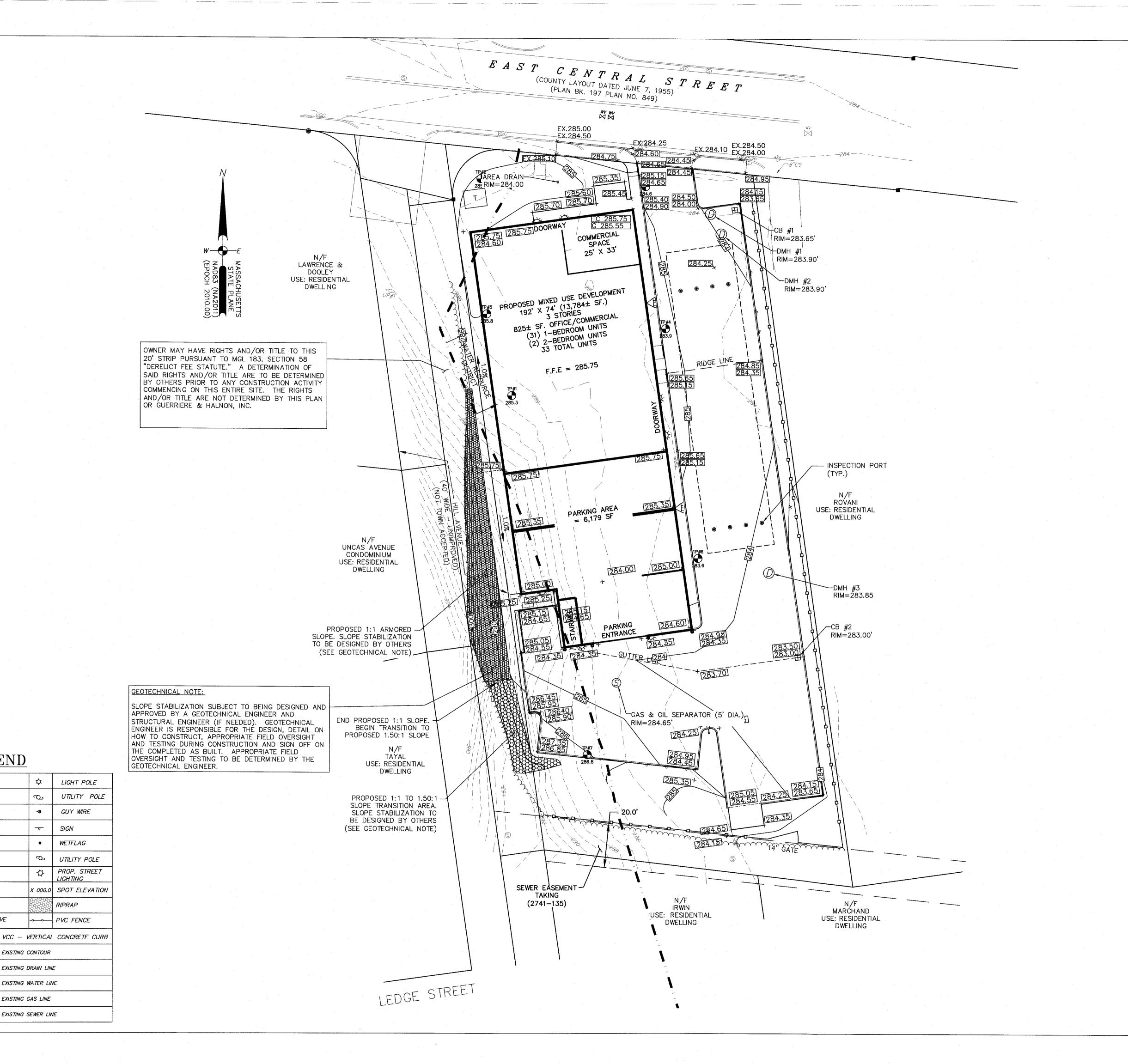
(RECORD

FROM TOWN

JOB NO. **F4478**

Halnon, Inc.





LEGEND

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EXISTING CONTOUR

EXISTING DRAIN LINE

EXISTING WATER LINE

EXISTING GAS LINE

EXISTING SEWER LINE

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CATCH BASIN

DRAIN MANHOLE

SEWER MANHOLE

MANHOLE

GAS VALVE

GAS METER

ELECTRIC MANHOLE

GAS SHUT OFF VALVE

WATER SHUT OFF VALVE

WATER VALVE

FIRE HYDRANT

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APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY

LEGAL NOTES

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OWNER

TAJ ESTATES OF FRANKLIN II, LLC 95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

APPLICANT

TAJ ESTATES OF FRANKLIN II, LLC MOHIUDDIN AHMED, MANAGER 95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

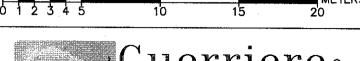
TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

GRADING PLAN

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS - REV1
01/28/22	TOWN COMMENTS - REV2
02/17/22	TOWN COMMENTS - REV3

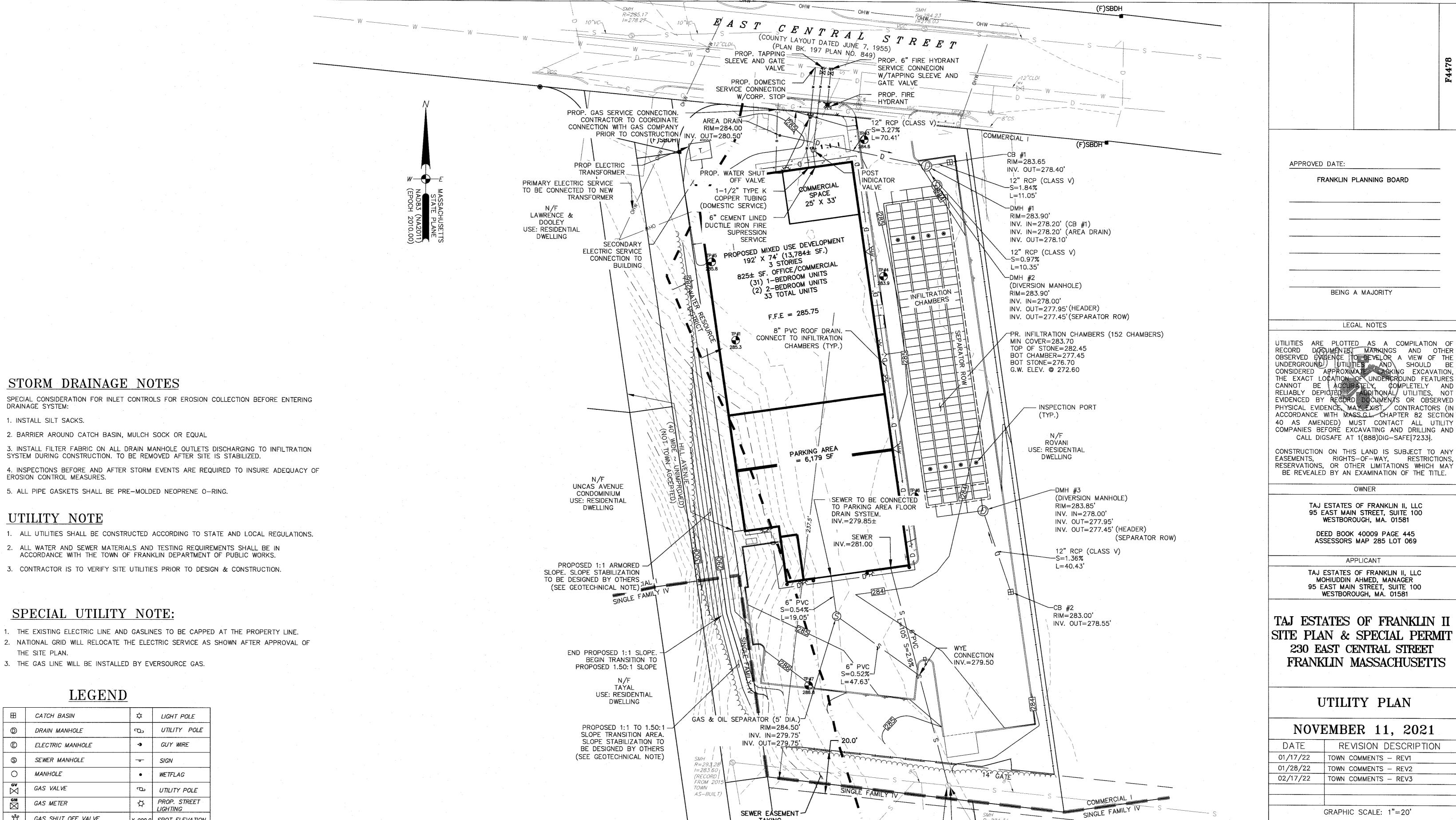
GRAPHIC SCALE: 1"=20'





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JOB NO. **F4478** SHEET 5 OF 12



LEDGE STREET

GAS SHUT OFF VALVE

WATER SHUT OFF VALVE

WATER VALVE

FIRE HYDRANT

_____ 000 _____

X 000.0 SPOT ELEVATION

RIPRAP

PVC FENCE

VCC - VERTICAL CONCRETE CURB

EXISTING CONTOUR

EXISTING DRAIN LINE

EXISTING WATER LINE

EXISTING GAS LINE

EXISTING SEWER LINE

SEWER EASEMENT

TAKING

(2741-135)

R=284.3± I=278.0± (RECORD

FROM TOWN

AS-BUILT)

MARĆHAND

USE: RESIDENTIAL

DWELLING

IRWIN

USE: RESIDENTIAL

INV.=278.2±

FRAME AND GRATE

ADJUST SEWER

TO GRADE

DWELLING

CONNECT PR. 6" SEWER

TO EXIST. MANHOLE

APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY LEGAL NOTES UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EXIDENCE TO DEVELOR A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMAL LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES
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CALL DIGSAFE AT 1(888)DIG-SAFE\7233\.

OWNER

TAJ ESTATES OF FRANKLIN II, LLC 95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

APPLICANT

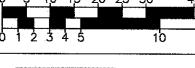
TAJ ESTATES OF FRANKLIN II, LLC MOHIUDDIN AHMED, MANAGER 95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

UTILITY PLAN

NOV	EMBER 11, 2021
DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS - REV1
01/28/22	TOWN COMMENTS - REV2
02/17/22	TOWN COMMENTS - REV3

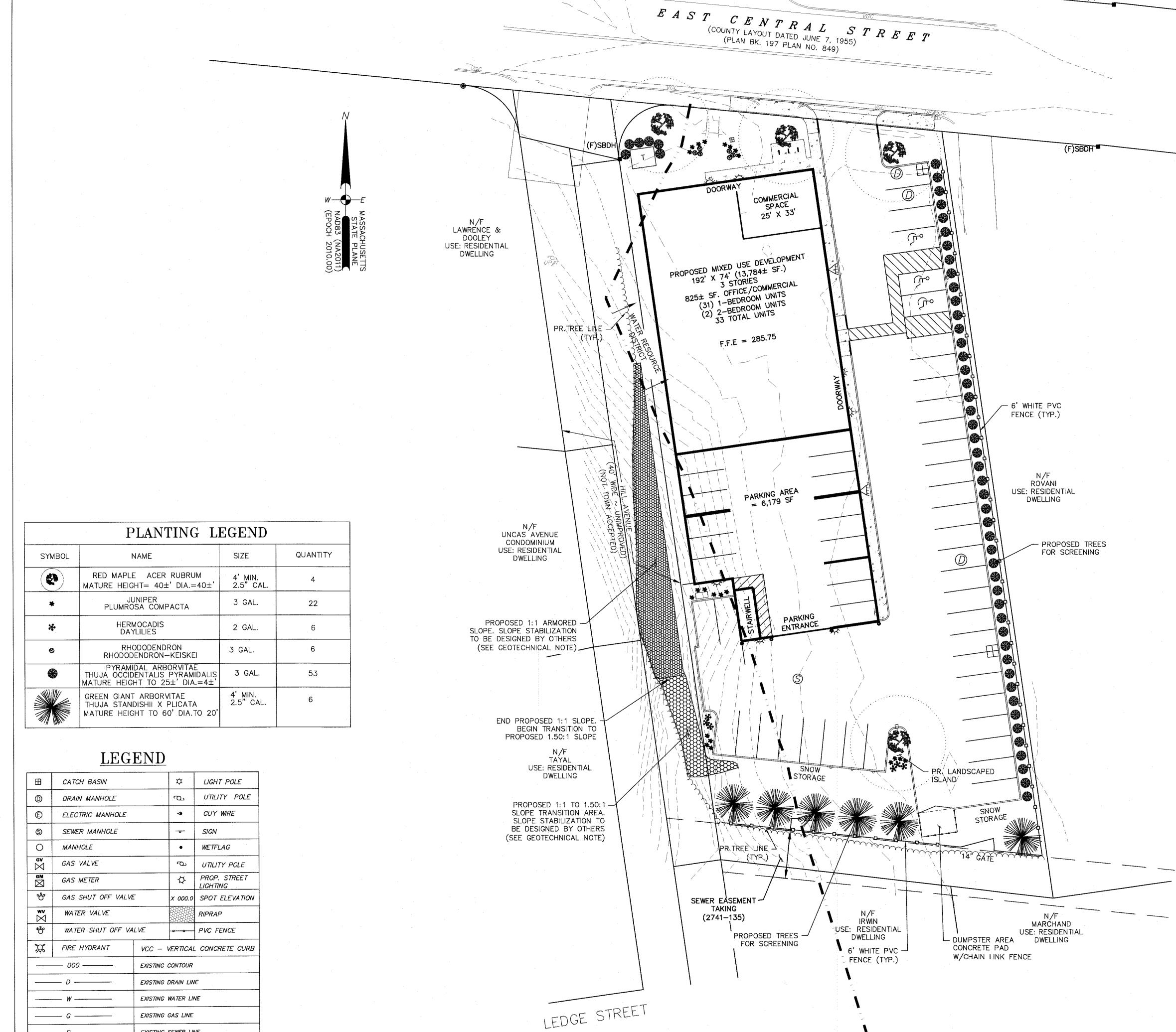
GRAPHIC SCALE: 1"=20'





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JOB NO. **F4478** SHEET 6 OF 12



APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY

LEGAL NOTES

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DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

APPLICANT

TAJ ESTATES OF FRANKLIN II, LLC MOHIUDDIN AHMED, MANAGER 95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

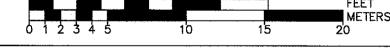
TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

LANDSCAPING PLAN

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS - REV1
01/28/22	TOWN COMMENTS - REV2
02/17/22	TOWN COMMENTS - REV3

GRAPHIC SCALE: 1"=20'





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SHEET 7 OF 12 JOB NO. **F4478**

EXISTING GAS LINE

EXISTING SEWER LINE

THIS PHOTOMETRIC PLAN IS BASED SOLELY UPON PROPRIETARY INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND CLIENT RECOMMENDATION.

LUMINAIRE LOCATIONS, LIGHTING PATTERNS, AND ILLUMINATION LEVELS WERE PREPARED UTILIZING INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND THE SOFTWARE PACKAGE SIMPLY OUTDOOR. IT'S VALUES SHOULD BE CONSIDERED APPROXIMATE IN NATURE AND SHALL BE VERIFIED BY THE LUMIN MANUFACTURER PRIOR TO INSTALLATION.

ACTUAL PERFORMANCE OF LIGHTING PATTERNS AND/OR ILLUMINANCE VALUES MAY VARY DUE TO VARIATIONS IN LIGHT HEIGHT, ELECTRICAL VOLTAGE, LAMP WATTAGE, AND OTHER VARIABLE FIELD CONDITIONS, OR USING A LUMINAIRE OTHER THAN SPECIFICALLY NOTED HEREON.

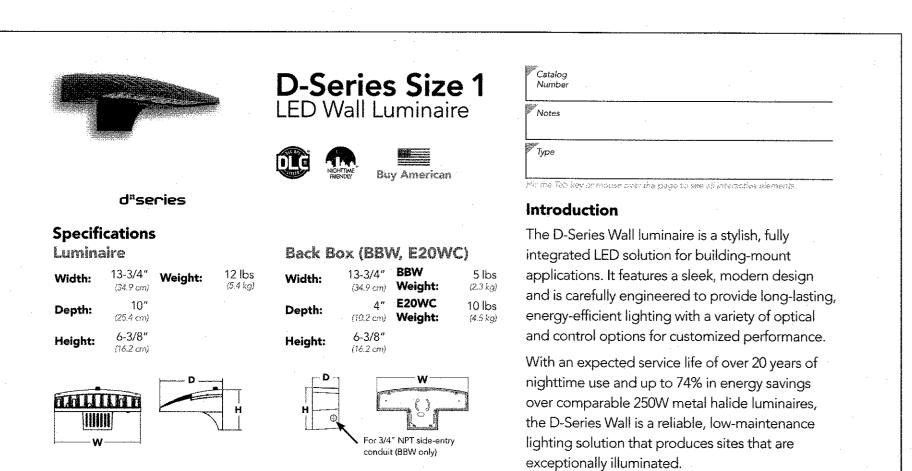
GUERRIERE & HALNON, INC ASSUMES NO RESPONSIBILITY FOR ANY SAFETY AND/OR SECURITY RISKS DUE TO INADEQUATE LIGHT LEVELS WHICH MAY OCCUR AFTER INSTALLATION.

LIGHT LEGEND

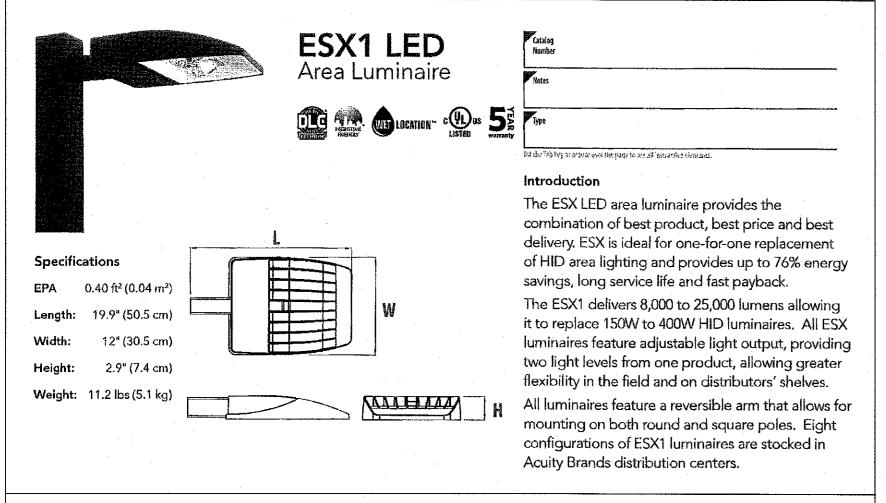
PEDESTRIAN LIGHTING- LITHONIA LIGHTING MODEL OLLWD- LED WALL CYLINDER LIGHT. MOUNTING HEIGHT 6.5'

SECURITY LIGHTING-LITHONIA LIGHTING MODEL WSR LED ARCHITECHURAL WALL SCONCE MOUNTING HEIGHT 9.5'

PARKING LIGHTING LITHONIA LIGHTING MODEL ESX1 LED AREA LUMINAIRE MOUNTING HEIGHT 20'



SECURITY LIGHTING



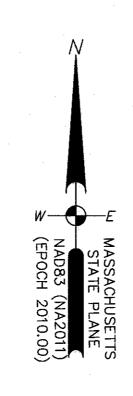
PARKING LIGHTING



LEGEND

	<u> </u>	11111		
⊞	CATCH BASIN		‡	LIGHT POLE
0	DRAIN MANHOLE		ပ	UTILITY POLE
(E)	ELECTRIC MANHOLE		-3	GUY WIRE
<u> </u>	SEWER MANHOLE	· .		SIGN
0	MANHOLE		•	WETFLAG
GV ⋈	GAS VALVE		ഹ	UTILITY POLE
GM	GAS METER		☆	PROP. STREET LIGHTING
స్త	GAS SHUT OFF VALVE		x 000.0	SPOT ELEVATION
WV 	WATER VALVE			RIPRAP
*50	WATER SHUT OFF VA	LVE		PVC FENCE
**	FIRE HYDRANT	VCC - VERTICAL CONCRETE CURI		
	000	EXISTING CONTOUR		
D EXISTING I			DRAIN LINE	
	w	EXISTING I	NATER LIN	IE .
	— <i>G</i> ———	EXISTING (GAS LINE	
	_			

EXISTING SEWER LINE





APPROVED DATE: FRANKLIN PLANNING BOARD

BEING A MAJORITY

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DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

OWNER/APPLICANT

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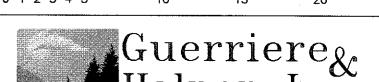
TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

PHOTOMETRIC PLAN

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS - REV1
01/28/22	TOWN COMMENTS - REV2
 02/17/22	TOWN COMMENTS - REV3
, , , , , , , , , , , , , , , , , , , ,	

GRAPHIC SCALE: 1"=20'

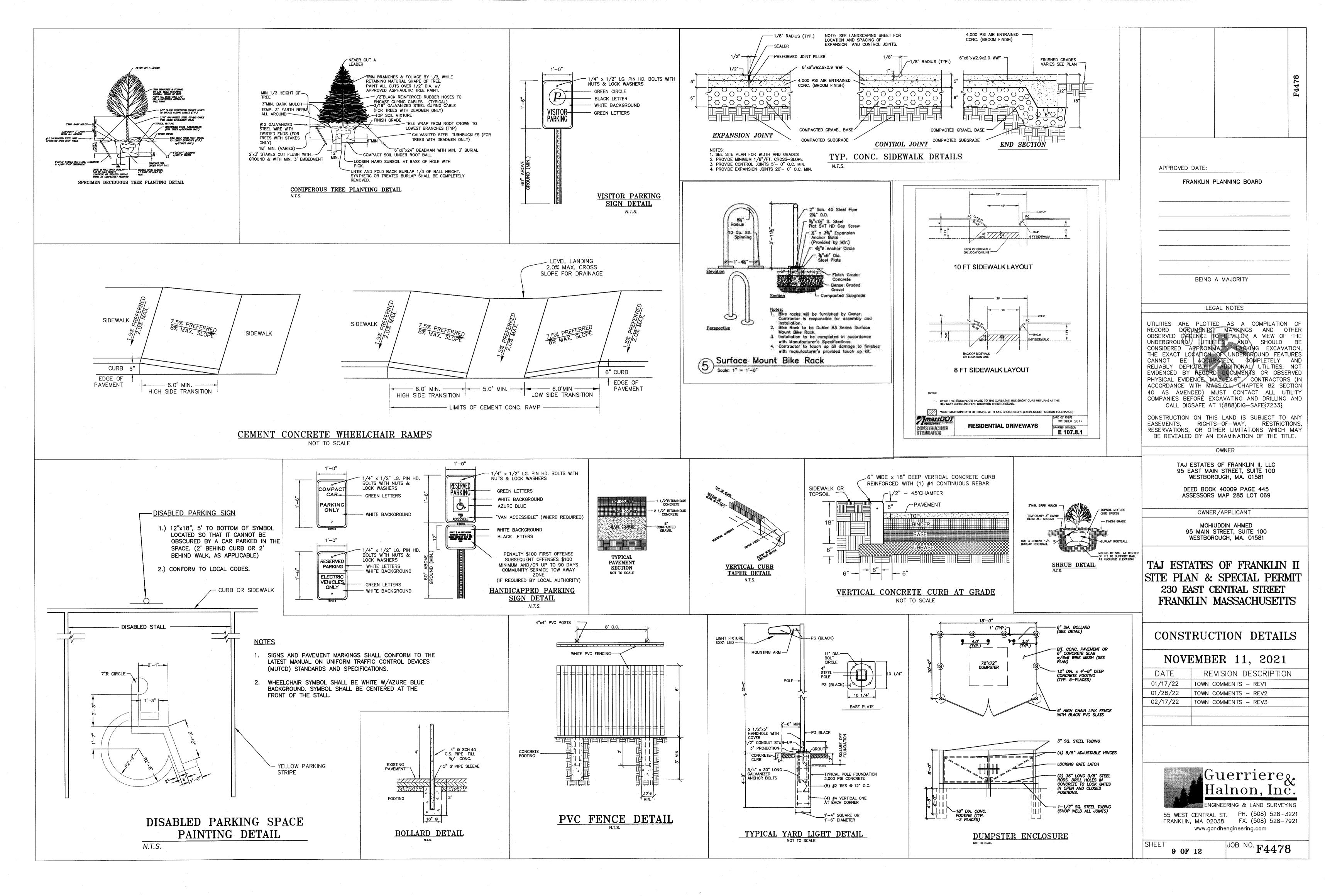


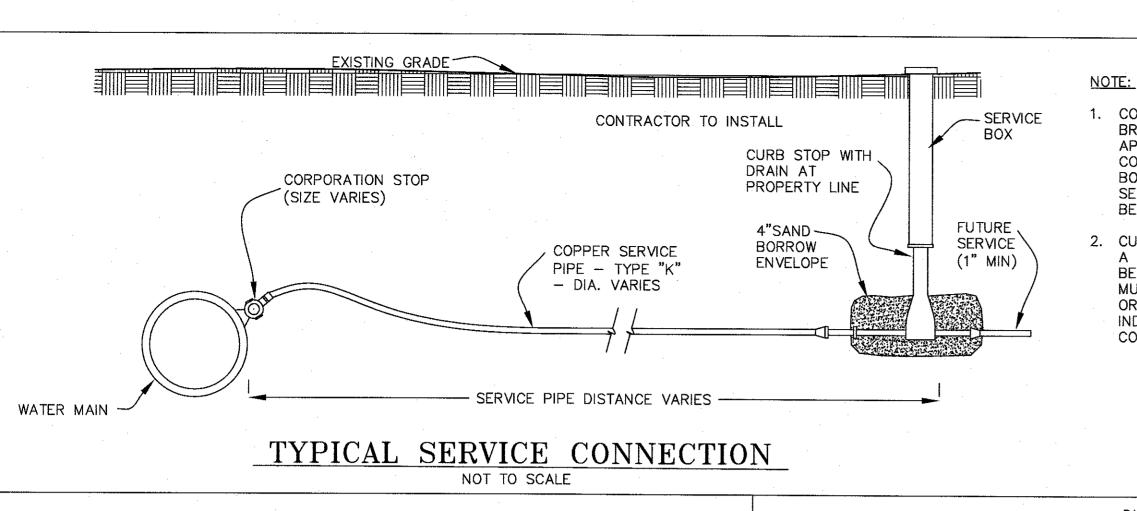


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8 OF 12

SHEET

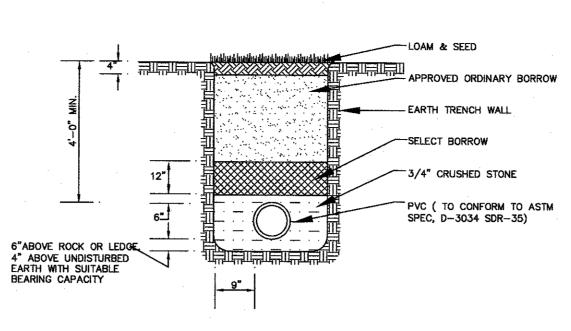




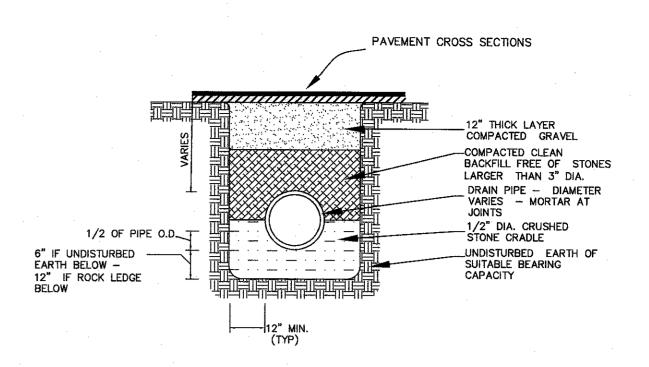
NOTE:

1. CORPORATION COCKS SHALL BE BRONZE AND SHALL BE THE APPROVED EQUAL OF MUELLER VALVE CO. DECATUR, ILL. OR FORD METER BOX CO., WABASH, IND., FOR COPPER SERVICE TUBE. END JOINTS SHALL BE COMPRESSION FITTINGS

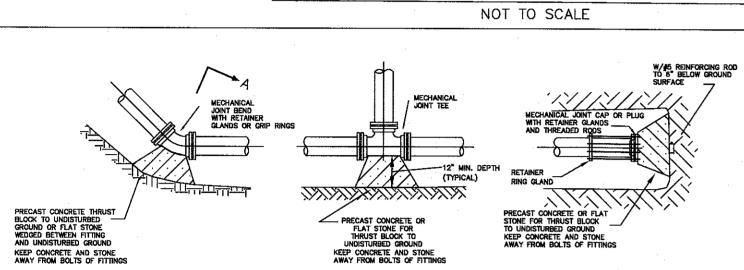
2. CURB STOPS SHALL BE BRONZE WITH A LAPPED GROUND KEY, AND SHALL BE THE APPROVED EQUAL OF MUELLER VALVE CO., DECATUR, ILL. OR FORD METER BOX CO. WABASH, IND. FOR COPPER TUBE SERVICE, COMPRESSION JOINT.



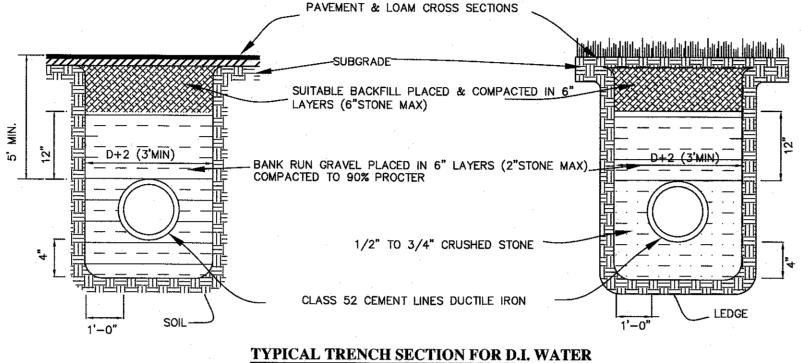
TYPICAL P.V.C. TRENCH SECTION
NOT TO SCALE



TYPICAL RCP TRENCH SECTION



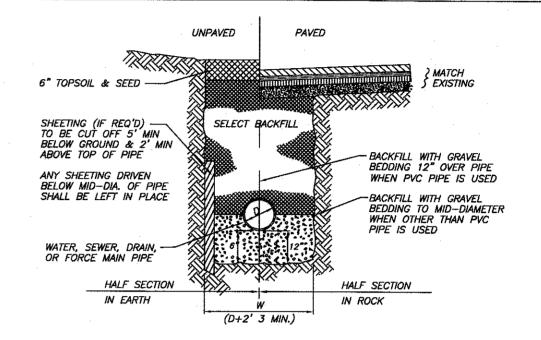
TYPICAL THRUST BLOCK DETAILS



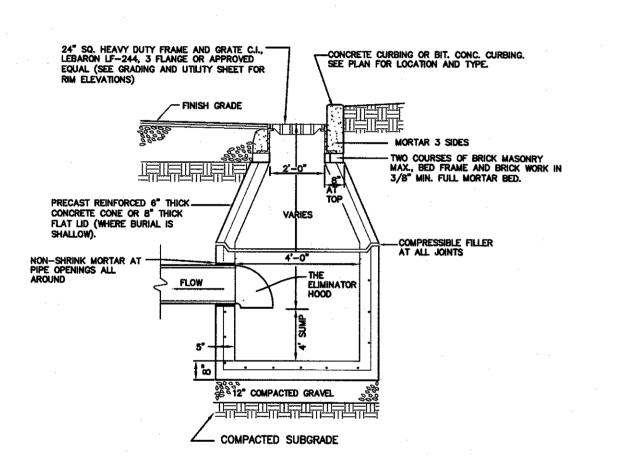
FOUNDATION
DOWN-SPOUT

ROOF DRAIN DETAIL

N. T. S.



TYPICAL UTILITY TRENCH

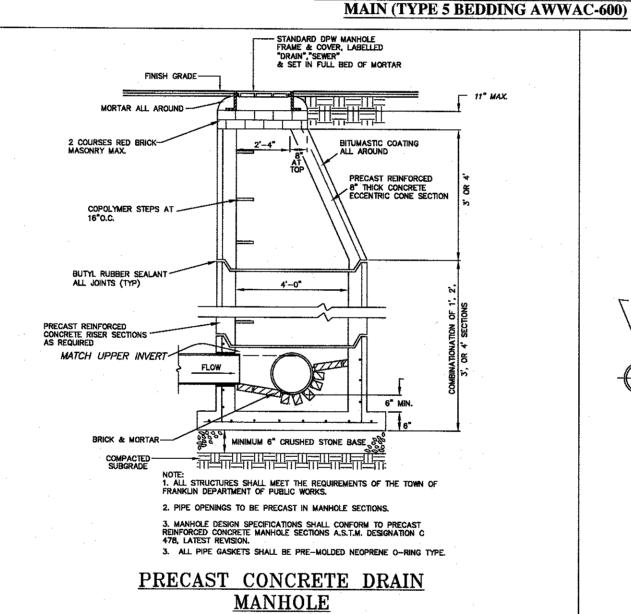


TYP. PRECAST CONCRETE

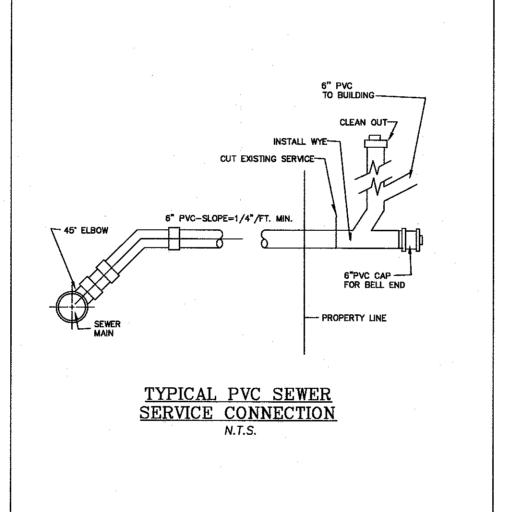
CATCH BASIN DETAIL

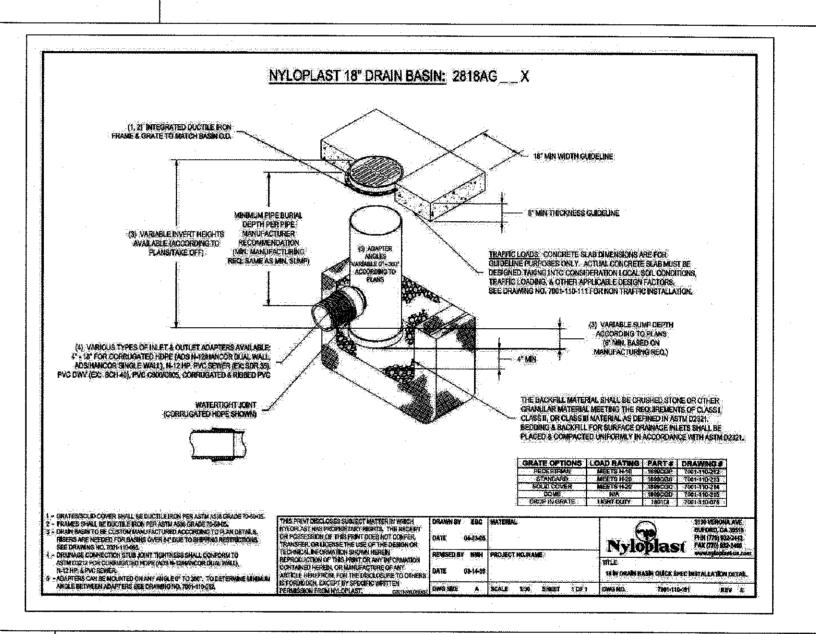
NOT TO SCALE

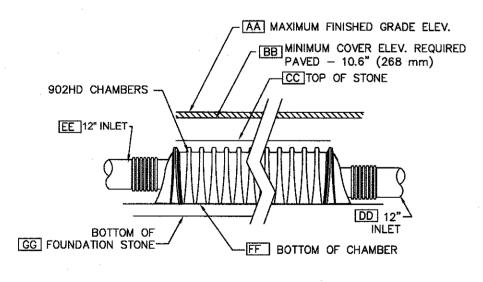
NOTE:
ALL STRUCTURES SHALL BE SUITABLE FOR HE-20 LODGOING AND SHALL MEET THE



NOT TO SCALE





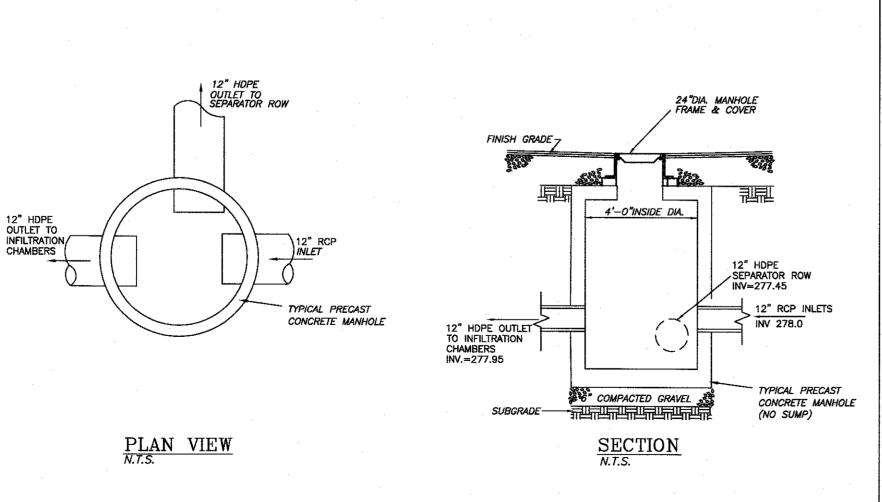


AA	MAXIMUM FINISHED GRADE ELEV.	285.05
BB	MINIMUM COVER ELEV.	283.70
СС	TOP OF STONE	282.45
DD	12" OUTLET	277.95
EE	12" INLET	277.95
FF	BOTTOM OF CHAMBER	277.45
GG -	BOTTOM OF FOUNDATION STONE	276.70
НН	ESTIMATED GROUNDWATER	N/A

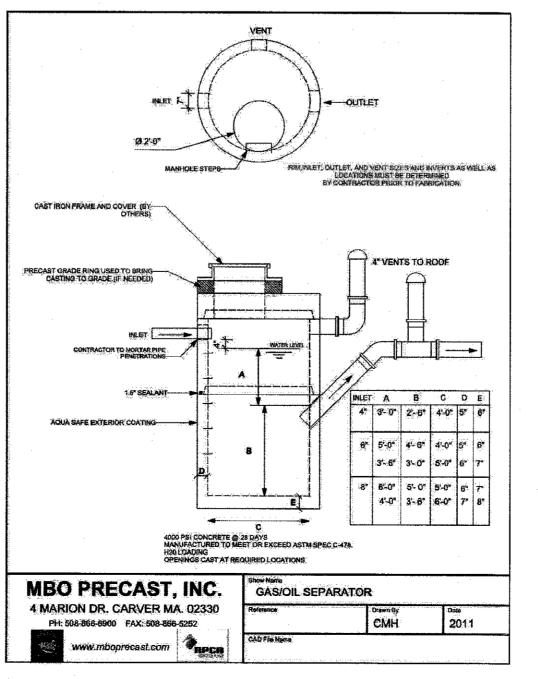
 CHAMBERS ARE TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. SEE STORMWATER REPORT FOR INSTALLATION INSTRUCTIONS AND DETAILS.
 ISOLATOR ROW TO BE PROVIDED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

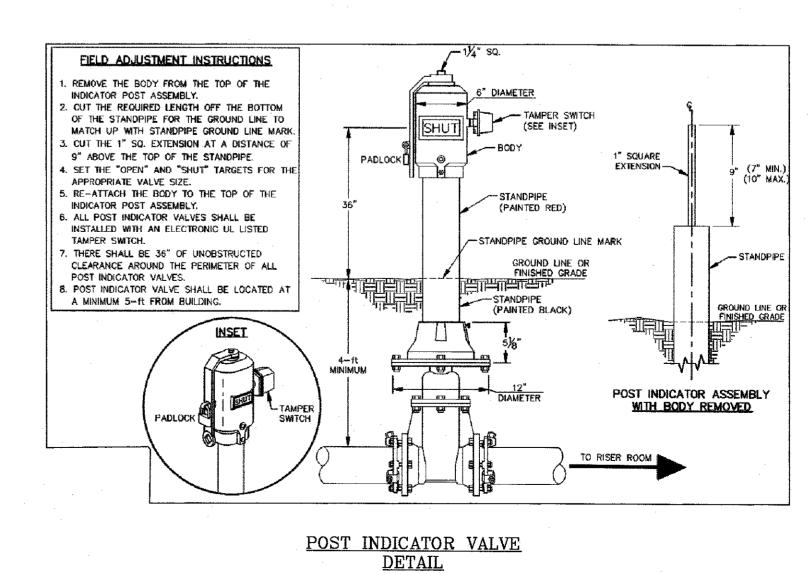
NOTES:

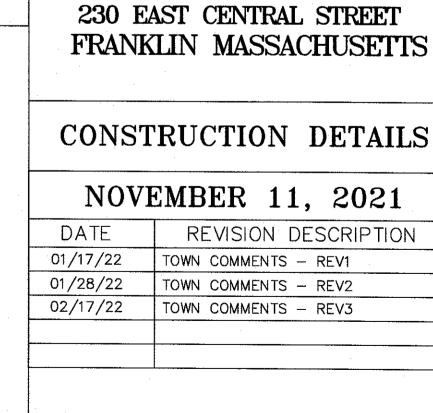
CULTEC 902HD CHAMBER SYSTEM ELEVATIONS
NOT TO SCALE



DIVERSION MANHOLE (DMH#2 AND DMH#3)







APPROVED DATE:

FRANKLIN PLANNING BOARD

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PHYSICAL EVIDENCE, MAY EXIST CONTRACTORS (IN ACCORDANCE WITH MASS GL. CHAPTER 82 SECTION

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WESTBOROUGH, MA. 01581

DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

OWNER/APPLICANT

MOHIUDDIN AHMED 95 MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

TAJ ESTATES OF FRANKLIN II

SITE PLAN & SPECIAL PERMIT

DOCUMENTS! MARKINGS AND OTHER



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SHEET 10 OF 12

CULTEC RECHARGER 902HD ® SPECIFICATIONS CULTEC RECHARGER 902HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF. CHAMBER PARAMETERS 1. THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. OR CANADA BY CULTEC, INC. OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416). 2.THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE: A. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER B. MAXIMUM PERMANENT (50-YEAR) COVER LOAD C. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD 3.THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". FOLLOWING: A. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430 B. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75 C. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95 MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE. 6.THE CHAMBER SHALL BE ARCHED IN SHAPE. 7.THE CHAMBER SHALL BE OPEN-BOTTOMED.

4.THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12. WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE

5. THE CHAMBER SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH

8. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE

9.THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER ® 902HD SHALL BE 48 INCHES (1219 MM) TALL, 78 INCHES (1981 MM) WIDE AND 4.25 FEET (1.30 M) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 902HD SHALL BE 3.67 FEET (1.12 M). 10. MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER ® 902HD

11. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCHES (250 MM) HDPE AND 12 INCHES (300 MM) PVC.

END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (750 MM) HDPE OR 36

12. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 MM) WIDE AND 49 INCHES (1245

13. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 902HD CHAMBER SHALL BE 17.31 FT³/ FT (1.61 M ³ / M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 902HD SHALL BE 63.47 FT 3 / UNIT (1.80 M 3 / UNIT) - WITHOUT STONE. 14. THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-48 FEED CONNECTOR SHALL BE 0.913 FT^3 / FT (0.085 M 3 / M) - WITHOUT STONE.

15. THE RECHARGER 902HD CHAMBER SHALL HAVE 5 CORRUGATIONS. 16. THE CHAMBER SHALL BE CAPABLE OF ACCEPTING A 6 INCH (150 MM) INSPECTION PORT OPENING AT THE TOP CENTER OF EACH CHAMBER, CENTERED ON THE CORRUGATION

17. THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.

18. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 8.3 FEET (2.53

END CAP PARAMETERS

902HD 1.0

1. THE CULTEC RECHARGER^(B) 902HD END CAP (REFERRED TO AS 'END CAP') SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416).

2.THE END CAP SHALL BE TWIN-SHEET THERMOFORMED OF VIRGIN HIGH MOLECULAR WEIGHT POLYETHYLENE. 3. THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS

USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS. 4.THE NOMINAL DIMENSIONS OF THE END CAP SHALL BE 48.5 INCHES (1231 MM) TALL, 78 INCHES (1982 MM) WIDE AND 9.7 INCHES (246 MM) LONG. WHEN JOINED WITH A

RECHARGER 902HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 6.2 INCHES (157 MM). 5. THE NOMINAL STORAGE VOLUME OF THE END CAP SHALL BE 5.34 FT $^{-3}$ / FT (0.50 M $^{-3}$ / M) -WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF AN INTERLOCKED END CAP SHALL

BE 2.76 FT 3 / UNIT (0.08 M 3 / UNIT) - WITHOUT STONE. 6.MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (750 MM) HDPE OR 36 INCHES

(900 MM) PVC.

7.THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

CULTEC HVLV FC-48 FEED CONNECTOR PRODUCT SPECIFICATIONS

CULTEC HVLV FC-48 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 902HD STORMWATER CHAMBERS.

1. THE FEED CONNECTOR SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)

2. THE FEED CONNECTOR SHALL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).

3. THE FEED CONNECTOR SHALL BE ARCHED IN SHAPE.

4. THE FEED CONNECTOR SHALL BE OPEN-BOTTOMED. 5. THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.

6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT $^{\rm s}$ / FT (0.085 m³/m) - WITHOUT STONE.

7. THE HVLV FC-48 FEED CONNECTOR SHALL HAVE 4 CORRUGATIONS.

8. THE HVLV FC-48 FEED CONNECTOR MUST BE FORMED AS A WHOLE UNIT HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER

9. THE FEED CONNECTOR SHALL BE DESIGNED TO WITHSTAND AASHTO HS-25 DEFINED LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS

10. THE FEED CONNECTOR SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

CULTEC NO. 410™ NON -WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL

GEOTEXTILE PARAMETERS

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416 OR 1-800-428-5832)

2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.

3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).

4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 TESTING METHOD.

5. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.

6. THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.

7. THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.

8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM

9. THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM

10. THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U .S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD. 11. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491

TESTING METHOD. 12. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4491 TESTING METHOD

13. THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CUITTEC MANIFOLD FEATURE IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

GEOTEXTILE PARAMETERS

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT

(203-775-4416 OR 1-800-428-5832) THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.

3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.

4. THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632 TESTING METHOD.

5. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X

(74 X 74 KN/M) PER ASTM D4595 TESTING METHOD. 6. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2%

STRAIN OF 960 X 1,096 LBS/FT (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5%

STRAIN OF 2,740 X 2, 740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING 8. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING

9. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,560 N) PER ASTM D6241 TESTING METHOD

10. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.

11. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE

(0.425 MM) PER ASTM D4751 TESTING METHOD. 12. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM

D4491 TESTING METHOD.

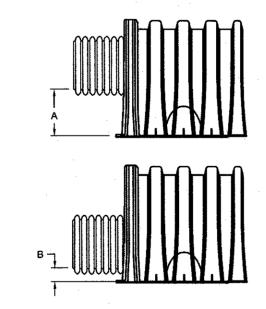
13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491 TESTING METHOD.

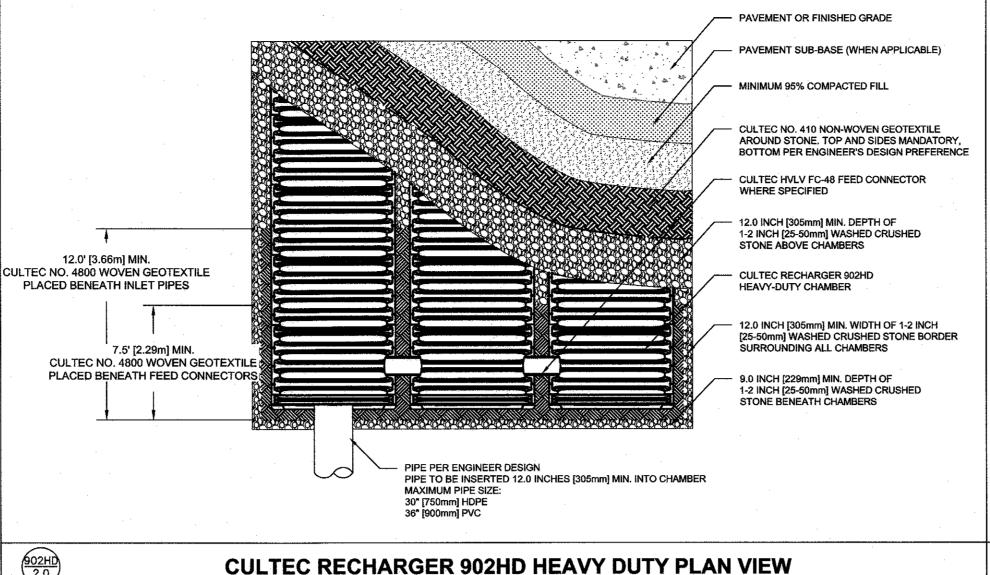
14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING METHOD.

GENERAL NOTES

PIPE	Α	В
6" [150 mm]	N/A	N/A
8" [200 mm]	. N/A	N/A
10" [250 mm]	N/A	N/A
12" [300 mm]	29.50" [749 mm]	2.25" [57 mm]
15" [375 mm]	26.50" [673 mm]	2.25" [57 mm]
18" [450 mm]	23.50" [597 mm]	2.50" [64 mm]
24" [600 mm]	16.50" [420 mm]	3.00" [76 mm]

*THE TYPICAL INVERT TABLE ABOVE IS BASED ON THE INSIDE DIAMETER OF STANDARD CORRUGATED PLASTIC PIPE. THE HEAVY DUTY END CAP HAS PRE-MARKED TRIM LINES FOR PIPE DIAMETERS 12" (300mm), 15" (375mm), 18" (450mm) AND 24" (600mm), PIPES OF ANY SIZE AND MATERIAL UP TO 24" MAY BE PLACED AT CUSTOM LOCATIONS AND CUSTOM INVERTS. THE CROWN OF THE PIPE MUST REMAIN A MINIMUM OF 4" (100mm) FROM THE EDGE OF THE HEAVY DUTY END CAP.





1-2 INCH [25-50mm] WASHED, CRUSHED STONE

CULTEC HVLV FC-48 FEED CONNECTOR

76.5" [1944 mm] MIN

CENTER TO CENTER

PROJECT ENGINEER OF RECORD OR GEOTECHNICAL CONSULTANT IS RESPONSIBLE FOR $\, extstyle -$

THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER

MENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:

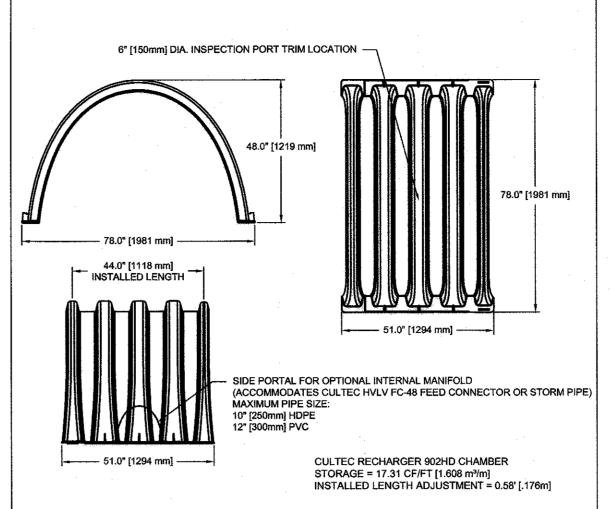
THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED

FEATURE AND BENEATH ALL INLET/OUTLET PIPES (FOR SCOUR PROTECTION)

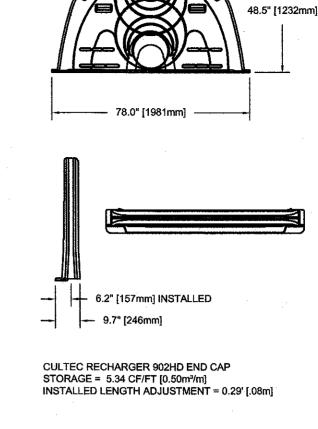
CULTEC RECHARGER 902HD HEAVY DUTY CROSS SECTION

ENSURING THAT THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS HAS BEEN MET



CULTEC RECHARGER 902HD HEAVY DUTY THREE VIEW

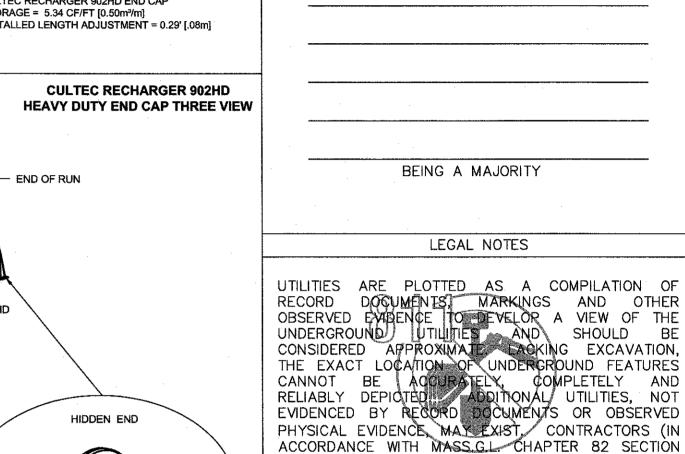
HIDDEN END



MAXIMUM PIPE SIZE IN END CAP:

30" [750 mm] HDPE

36" [900 mm] PVC



MAX. PIPE: 10" [250mm] HDPE 12" [300mm] PVC

ZOOM OF SIDE PORTAL SHOWING MAX. PIPE O.D.

APPROVED DATE:

FRANKLIN PLANNING BOARD

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS. RIGHTS-OF-WAY. RESTRICTIONS. RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

40 AS AMENDED) MUST CONTACT ALL UTILITY

COMPANIES BEFORE EXCAVATING AND DRILLING AND

CALL DIGSAFE AT 1(888)DIG-SAFE\{7233\}.

TAJ ESTATES OF FRANKLIN II, LLC

95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581 DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

OWNER/APPLICANT

MOHIUDDIN AHMED 95 MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

CONSTRUCTION DETAILS

NOVEMBER 11, 2021

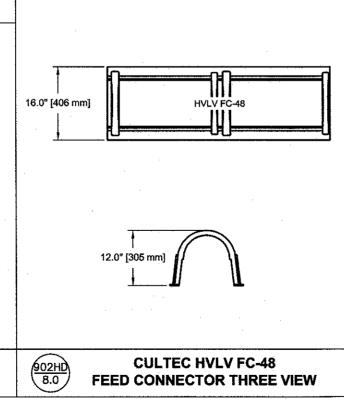
DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS - REV1
01/28/22	TOWN COMMENTS - REV2
 02/17/22	TOWN COMMENTS - REV3



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JOB NO. **F4478**



MIN. 95% COMPACTED FILL

CULTEC RECHARGER 902HD

OR GRANULAR SUB-BASE

8.3' [2.53m] MAX

COVER DEPTH

COLLECTION CHAMBERS." THE LOAD CONFIGURATION SHALL INCLUDE:

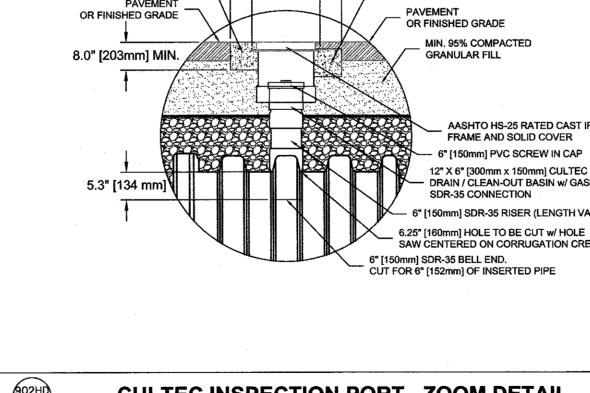
.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER

THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75

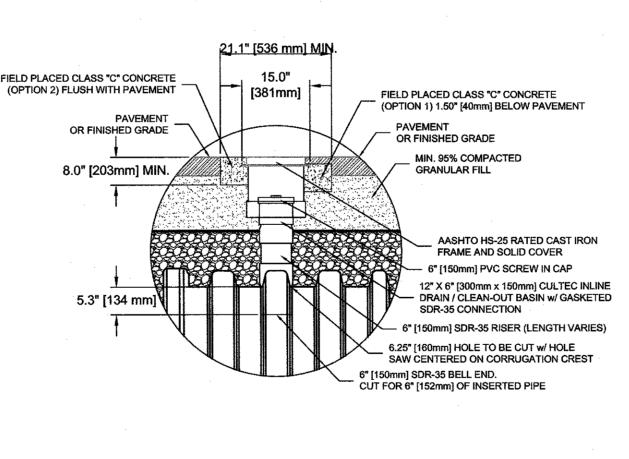
THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

MAXIMUM PERMANENT (50-YEAR) COVER LOAD 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD

--- 49.0" [1243 mm] -----



902HD 9.0 **CULTEC INSPECTION PORT - ZOOM DETAIL**



CHI TEC NO. 410 NON-WOVEN GEOTEXTILE

AROUND STONE, TOP AND SIDES MANDATORY

10.6" [268 mm] MiN. FOR PAVED

18.0" [457mm] MIN. FOR UNPAVED

--- 7.9" [201 mm] MIN.

BEGINNING OF RUN -

MODEL 902HD END CAP

INLET/OUTLET PIPE PER ENGINEER DESIGN.

30" [750mm] HDPE 36" [900mm] PVC

CULTEC NO. 4800 WOVEN GEOTEXTILE TO BE PLACED BENEATH -INTERNAL MANIFOLD FEATURE AND BENEATH ALL INLET/OUTLET

PIPES (FOR SCOUR PROTECTION)

CULTEC HVLV FC-48 FEED CONNECTOR AS NEEDED. CUT SHALL BE WITHIN 1/4" [6mm] TOLERANCE OF SIDE PORTAL TRIM GUIDELINE

PROJECT ENGINEER OF RECORD OR GEOTECHNICAL CONSULTANT IS RESPONSIBLE FOR ...

ENSURING THAT THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS HAS BEEN MET

SIDE PORTAL TO BE CUT IN FIELD TO ALLOW FOR -

PIPE TO BE INSERTED 12.0" [305mm] MIN, INTO CHAMBER

OPTIONAL TRAFFIC RATED

CULTEC INSPECTION PORT KIT (SEE DETAIL

CULTEC RECHARGER 902HD

HEAVY DUTY CHAMBER

<u>OTIES:</u>

THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS." THE LOAD CONFIGURATION SHALL INCLUDE:

.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER

.b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD

.c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD WINDER SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE ASSITTO LRPD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:

3. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430 THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75

THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

CULTEC INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL

MODEL 902HD

TRIM CUT-OUT TO UTILIZE

INTERNAL MANIFOLD FEATURE

CULTEC RECHARGER 902HD HEAVY DUTY TYPICAL INTERLOCK

FEED CONNECTOR

1-2 INCH [25-50mm] WASHED, CRUSHED STONE SURROUNDING CHAMBERS

CULTEC NO. 410 NON-WOVEN GEOTEXTILE

MIN. 95% COMPACTED FILL

OR GRANULAR SUB-BASE

AROUND STONE. TOP AND SIDES MANDATORY,

BOTTOM PER ENGINEER'S DESIGN PREFERENCE

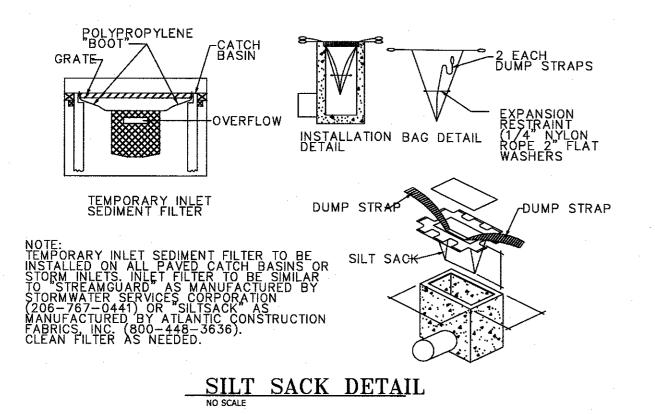
- PAVEMENT OR FINISHED GRADE

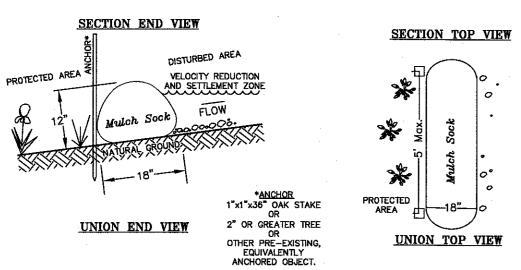
CULTEC RECHARGER 902HD TYPICAL PIPE INVERTS

902HD 10.0

EROSION CONTROL NOTES:

- 1. TAKE EVERY PRECAUTION TO MINIMIZE AND CONTROL EROSION WITHIN THE PROJECT AREA.
- STOCKPILES OF EXCAVATED MATERIALS AND EXPOSED CUT AND FILL SLOPES SHALL BE KEPT TO MINIMUM GRADIENTS WHENEVER POSSIBLE. THESE AREAS SHALL BE PROTECTED WITH HAY, MULCH, GRASS SEED OR COMBINATION OF THE ABOVE TO SLOW DOWN THE RATE OF SURFACE RUN-OFF AND TO REDUCE THE VOLUME OF SUSPENDED SOLIDS IN THE RUN OFF WATER.
- 3. SILTATION BARRIERS SHALL BE STAKED IN PLACE DOWN GRADIENT FROM ALL EXPOSED AREAS OR MATERIAL STORAGE AREAS IN ORDER TO REDUCE THE AMOUNT OF SUSPENDED SOLIDS IN RUNOFF WATER. THE EXACT LOCATION OF THE SILTATION BARRIERS MAY VARY FROM THAT SHOWN ON THE PLANS AND MAY BE ADJUSTMENT IN THE FIELD AS WORK PROGRESSES. SEDIMENTATION BUILDUP OVER SIX INCHES IN DEPTH THAT ACCUMULATES BEHIND THE SILTATION BARRIERS SHALL BE REMOVED. BARRIERS SHALL BE CHECKED AFTER EVERY STORM AND AT REGULAR WEEKLY INTERVALS.
- 4. SILTATION BARRIER SHALL BE INSTALLED WITH WOODEN STAKES IN ACCORDANCE WITH MANUFACTURER DIRECTIONS. BOTTOM 6 INCHES OF FABRIC SHALL BE TOED IN OR BACKFILLED SO THAT TOP OF FABRIC SHALL BE 2 FEET 6 INCHES ABOVE FINISH GRADE.
- 5. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE LOAMED (4" MIN.) AND SEEDED IN ORDER TO MINIMIZE DUST AND EROSION.
- 6. FILTER FABRIC IS TO BE PLACED UNDER ALL RIP-RAP AREAS SHOWN ON DESIGN PLANS.
- 7. EROSION CONTROL BARRIERS ARE TO BE PLACED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
- 8. THE PROPOSED STORMWATER BASIN IS TO BE UTILIZED AS A SEDIMENTATION POND DURING CONSTRUCTION. IT IS TO BE CONSTRUCTED FIRST IN ORDER TO CONTROL/ PREVENT SILTATION FROM DISCHARGING FROM THE SITE AND/OR DISTURBING WETLAND AREAS.
- 9. ALL TEMPORARY SEDIMENT POND(S) AND SUMPS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION, INSPECTED PRIOR TO AND AFTER STORM EVENTS AND CLEANED AS NEEDED.
- 10. TEMPORARY BERM SHALL BE PLACED ALONG THE ENTIRE EDGE OF ROADWAY WITH THE BINDER COURSE AND SHALL REMAIN IN PLACE UNTIL FINISH COURSE IS PLACED.





- 1. WHERE SECTION ENDS MEET, THERE SHALL BE AN OVERLAP OF 6" OR GREATER. BOTH SIDES SHALL BE ANCHORED (OAK STAKES,
- TREES, ETC.) TO STABILIZE THE UNION.
 2. NO ADDITIONAL ANCHORS ARE REQUIRED ON SLOPES LESS THAT
- 2:1.

 3. ADDITIONAL ANCHORS ARE REQUIRED AT 5' INTERVALS (MAX.) ON THE DOWNSLOPE OR PROTECTED SIDE ON SLOPES GREATER THAN 2:1 TO PREVENT MOVEMENT.

 FROSION CONTROL BARRIER

 SITE GLOBE WOOD.

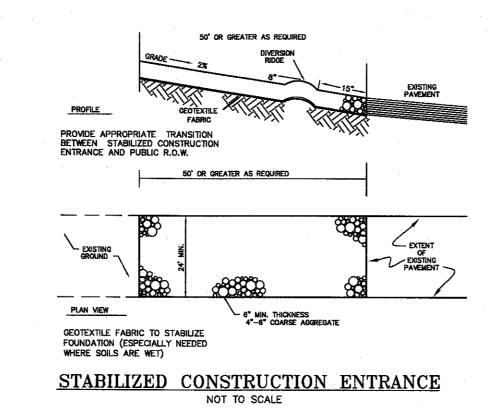
 90-100% passing a 3" screen; 70-100% passing a 1" screen; 70-100% passing a 0.25" screen; 30-75% passing a 0.25" screen

EROSION CONTROL BARRIER NOT TO SCALE

• FILLER INGREDIENT: FiberRoot Mulch A blend of coarse and fine compost and

Weight: Approx. 850 lbs./cu.yd.

(Ave. 30 lbs./l.f.)



APPROVED DATE: FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

UTILITIES ARE PLOTTED AS A COMPILATION OF UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EXISENCE TO DEVELOR A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE MAY EXIST. PHYSICAL EVIDENCE, MAY EXIST CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE{7233}.

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OWNER

TAJ ESTATES OF FRANKLIN II, LLC 95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

OWNER/APPLICANT

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TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

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NOVEMBER 11, 2021

REVISION DESCRIPTION 01/17/22 TOWN COMMENTS - REV1 01/28/22 TOWN COMMENTS - REV2 02/17/22 TOWN COMMENTS - REV3



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