

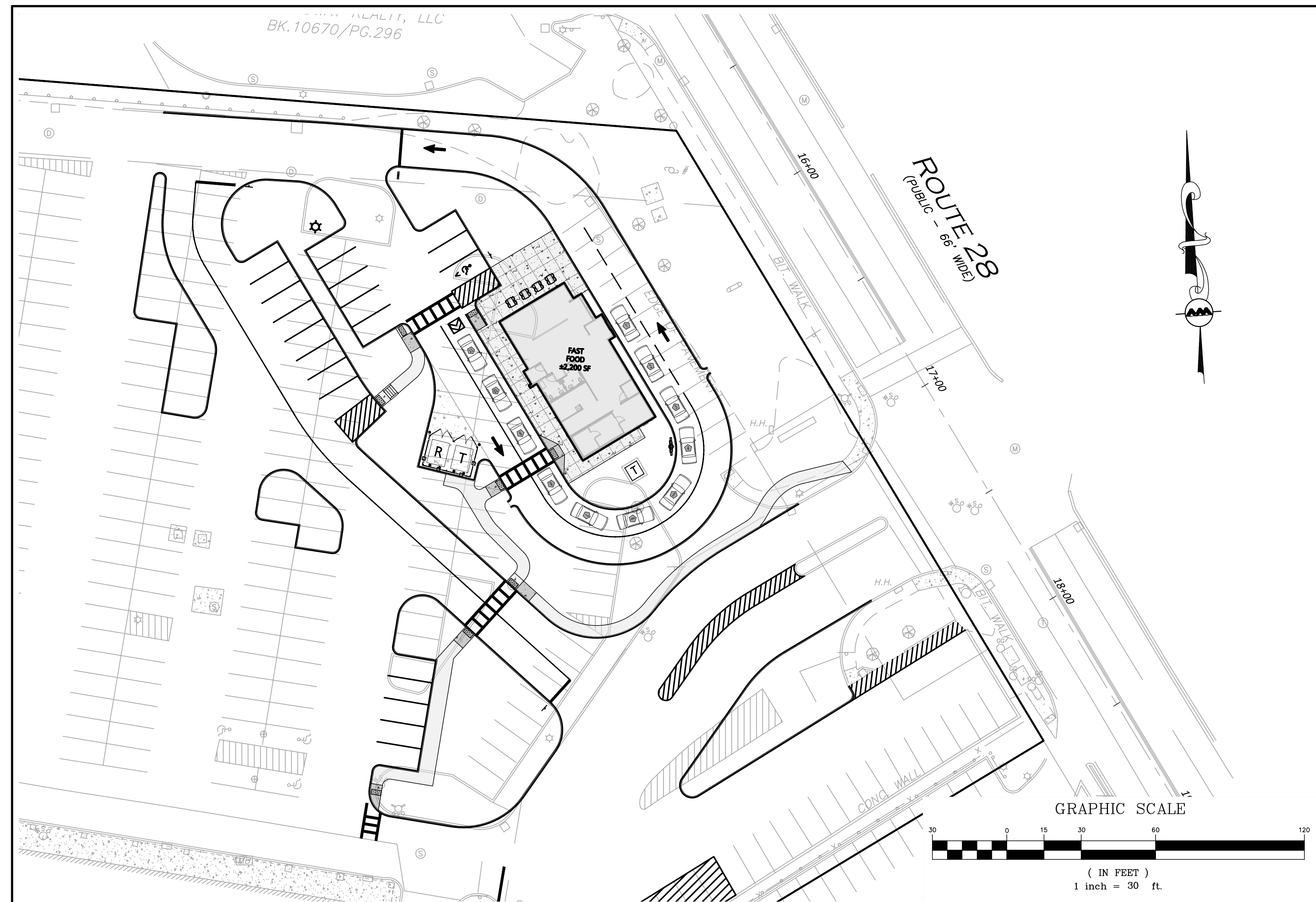
LOCUS MAP
SCALE: 1" = 1,000'

APPLICANT/OWNER:
SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

CIVIL ENGINEER:
ALLEN & MAJOR ASSOCIATES, INC.
400 HARVEY ROAD
MANCHESTER, NH 03103

SURVEYOR:
ALLEN & MAJOR ASSOCIATES, INC.
100 COMMERCE WAY
WOBBURN, MA 01801

SITE DEVELOPMENT PLANS FOR **TACO JOHN'S** 436 BROADWAY METHUEN, MA 01844

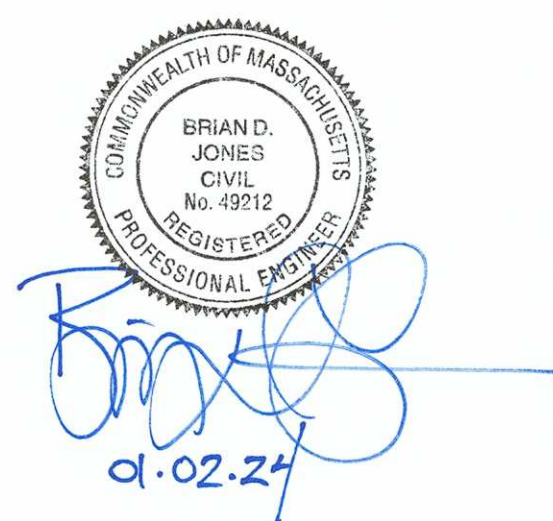


LIST OF DRAWINGS

DRAWING TITLE	SHEET NO.	ISSUED	REV1	REV2	REV3
EXISTING CONDITIONS PLAN	1	03-31-23	05-25-23	06-27-23	-
SITE PREPARATION PLAN	C-100	03-31-23	05-26-23	06-27-23	01-02-24
OVERALL SITE PLAN	C-101	03-31-23	05-26-23	06-27-23	01-02-24
LAYOUT & MATERIALS PLAN	C-102	03-31-23	05-26-23	06-27-23	01-02-24
GRADING & DRAINAGE PLAN	C-103	03-31-23	05-26-23	06-27-23	01-02-24
UTILITIES PLAN	C-104	03-31-23	05-26-23	06-27-23	01-02-24
TRUCK TURNING PLAN	C-105	03-31-23	05-26-23	06-27-23	-
DETAILS	C-501	03-31-23	05-26-23	-	-
DETAILS	C-502	03-31-23	05-26-23	-	-
DETAILS	C-503	03-31-23	05-26-23	06-27-23	01-02-24
DETAILS	C-504	03-31-23	05-26-23	06-27-23	01-02-24
LANDSCAPING PLAN	L-101	03-31-23	05-26-23	-	01-02-24
LANDSCAPING DETAILS	L-501	03-31-23	05-26-23	-	-



CITY OF METHUEN APPROVAL STAMP



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

PREPARED BY:



**ALLEN & MAJOR
ASSOCIATES, INC.**

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environmental consulting • landscape architecture
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100 COMMERCE WAY, SUITE 5
WOBBURN MA 01801
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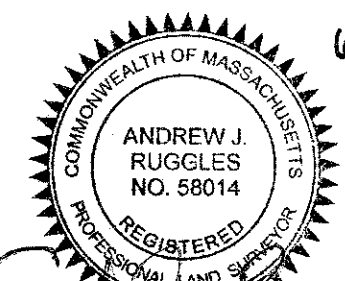
ISSUED FOR SITE PLAN REVIEW: MARCH 31, 2023

REVISION 1: MAY 26, 2023

REVISION 2: JUNE 27, 2023

REVISION 3: JANUARY 2, 2024

WE HEREBY CERTIFY THAT THIS PLAN IS THE
RESULT OF AN ACTUAL ON THE GROUND
SURVEY PERFORMED ON OR BETWEEN
DECEMBER 31, 2019 AND JANUARY 10, 2020.



PROFESSIONAL LAND SURVEYOR FOR
ALLEN & MAJOR ASSOCIATES, INC.

6/21/23

REV	DATE	DESCRIPTION
2	6/27/23	ADDED GUARDRAIL
1	5/25/23	VARIOUS REVISIONS

APPLICANT/OWNER:

THE VILLAGE MALL
436 BROADWAY
METHUEN, MA 01844

PROJECT:

436 BROADWAY
METHUEN, MA

PROJECT NO.	3115-01A	DATE:	3/30/23
SCALE:	1" = 40'	DWG. NAME:	S-2732-01-EC
DRAFTED BY:	AJR	CHECKED BY:	AJR/NIL

PREPARED BY:

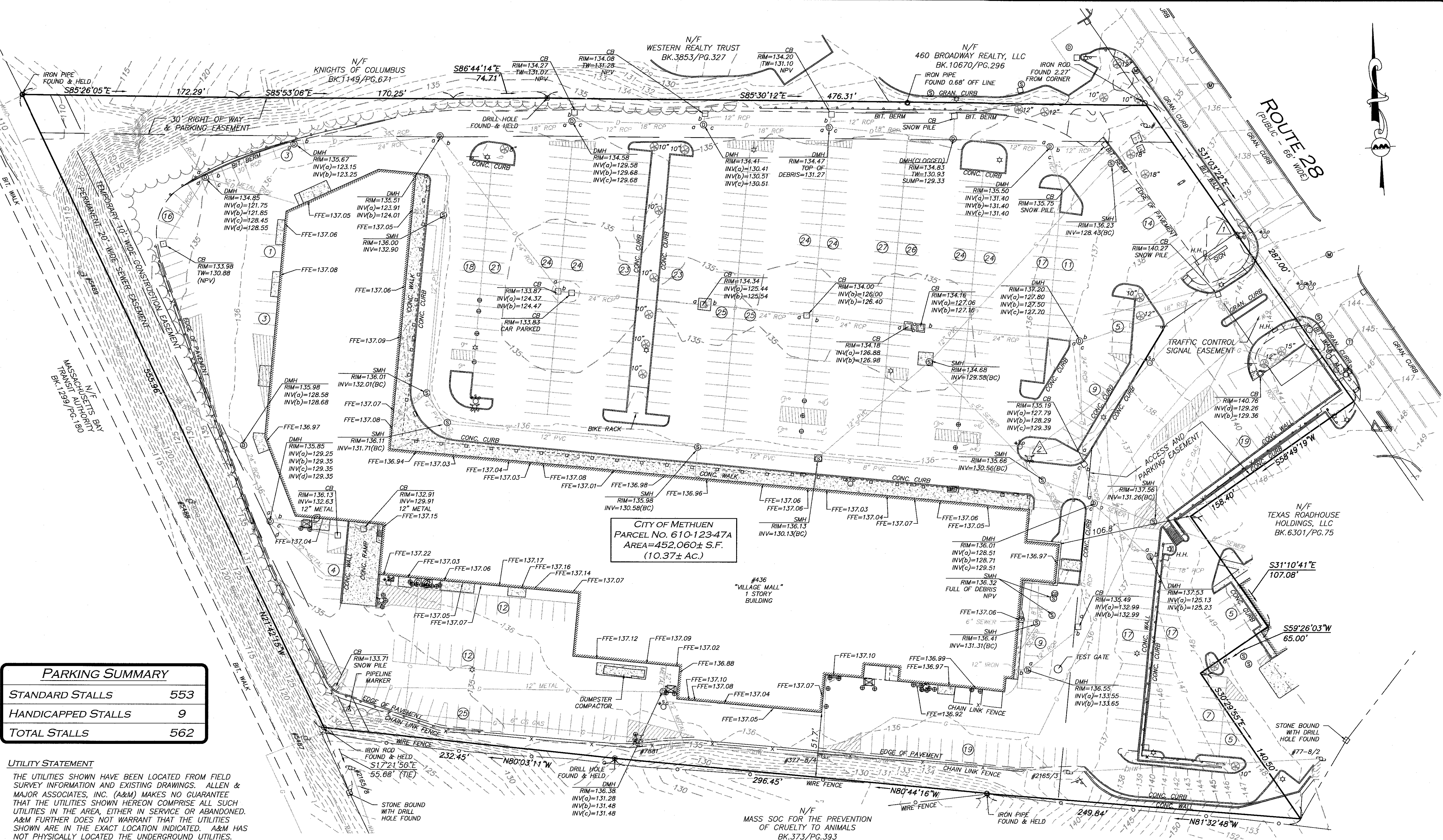


**ALLEN & MAJOR
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DRAWING TITLE:	SHEET NO.
EXISTING CONDITIONS	1

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PARKING SUMMARY	
STANDARD STALLS	553
HANDICAPPED STALLS	9
TOTAL STALLS	562

UTILITY STATEMENT

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD
SURVEY INFORMATION AND EXISTING DRAWINGS. ALLEN &
MAJOR ASSOCIATES, INC. (A&M) MAKES NO GUARANTEE
THAT THE UTILITIES SHOWN HEREON COMPREHEND ALL SUCH
UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
A&M FURTHER DOES NOT WARRANT THAT THE UTILITIES
SHOWN ARE IN THE EXACT LOCATION INDICATED. A&M HAS
NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

LEGEND

RAILROAD SPIKE	△	HANDICAPPED PARKING SPACE	Ⓢ	GAS LINE	—G—
STONE BOUND (SB)	□	PAINTED ARROW	→	OVERHEAD WIRES	—OHW—
DRAIN MANHOLE (DMH)	⊙	PARKING SPACE COUNT	16	FINISHED FLOOR ELEVATION	FFE
SEWER MANHOLE (SMH)	⊙	CONCRETE	—C—	BUILDING HEIGHT	BH
MISC. MANHOLE (MH)	⊙	LANDSCAPED AREA (LSA)	—LSA—	BITUMINOUS	BIT.
TELEPHONE MANHOLE (TMH)	⊙	BUILDING	—B—	CONCRETE	CONC.
CATCH BASIN (CB)	⊙	WETLAND	—W—	GRANITE	GRAN.
ROUND CATCH BASIN (RCB)	⊙	BUFFER ZONE	—BZ—	BOTTOM CENTER	(BC)
UTILITY POLE	⊙	1' CONTOUR	---53---	REINFORCED CONCRETE PIPE	RCP
UTILITY POLE W/LIGHT	⊙	5' CONTOUR	---55---	POLYVINYL CHLORIDE PIPE	PVC
GUY WIRE	—GW—	PROPERTY LINE	—PL—	NO PIPES VISIBLE	NPV
FIRE HYDRANT	⊙	ABUTTERS LINE	—AL—	TOP OF WATER	TW
WATER GATE	⊙	EDGE OF PAVEMENT	—EP—	CAST IRON	CI
GAS GATE	⊙	CURB	—C—	STONE BOUND W/DRILL HOLE	SB/DH
BOLLARD	⊙	CHAIN LINK FENCE	—X—	NOW OR FORMERLY	N/F
LIGHT	⊙	WATER LINE	—W—	BOOK	BK.
WETLAND FLAG	⊙	SEWER LINE	—S—	PAGE	PG.
GAS METER	⊙	DRAIN LINE	—D—		

LOCUS REFERENCES

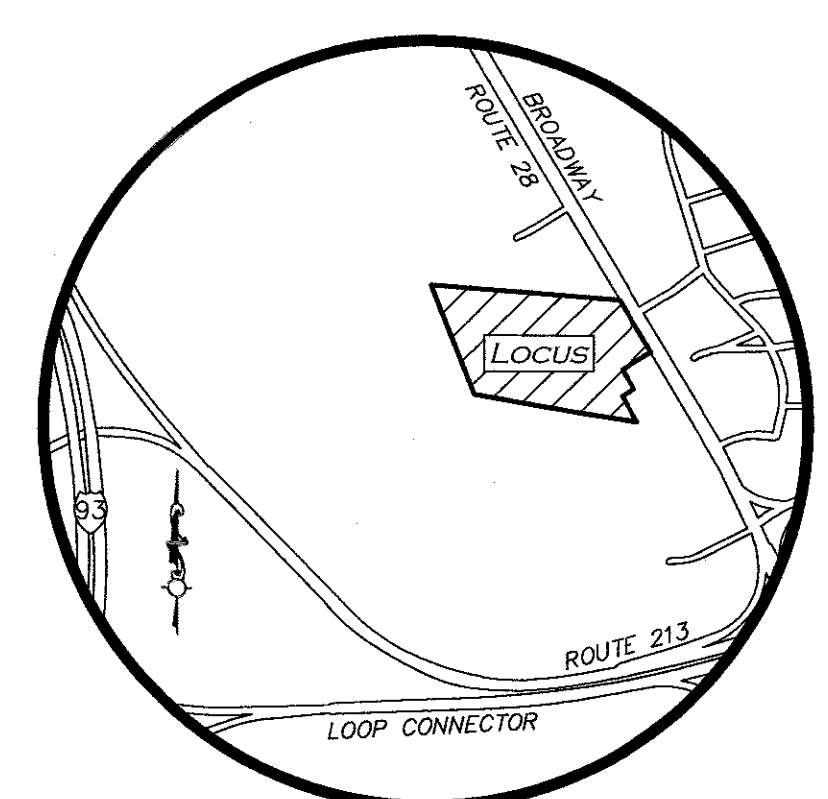
—TOWN OF METHUEN PARCEL NO. 610-123-47A
—RECORD OWNER: SHRI SWAMINE LLC
—DEED BOOK 17223, PAGE 192
—PLAN 9591

PLAN REFERENCES

—PLAN NO. 288
—PLAN NO. 1309
—PLAN NO. 3704
—PLAN NO. 4580
—PLAN NO. 6040
—PLAN NO. 8046
—PLAN NO. 11577
—PLAN NO. 14081
—S.H.L.O. NO. 6639 (1984)

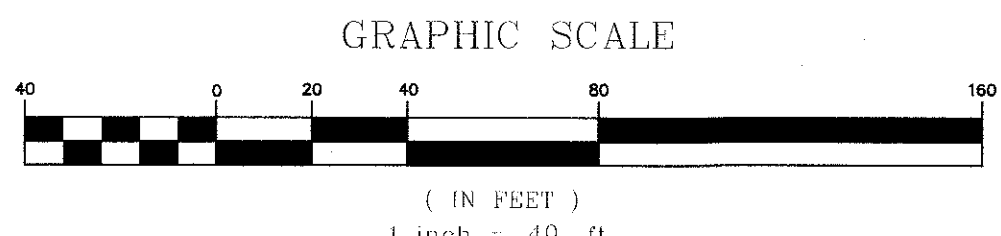
NOTES

- NORTH ARROW IS BASED ON MASSACHUSETTS GRID COORDINATE SYSTEM (MAINLAND ZONE) (NAD 83).
- BOOK/PAGE AND PLAN REFERENCES ARE TAKEN FROM ESSEX (NORTH) REGISTRY OF DEEDS IN ANDOVER, MA.
- VERTICAL DATUM IS NAVD 88 ESTABLISHED USING RTK GPS OBSERVATION.
- CONTOUR INTERVAL IS ONE FOOT (1').
- SURVEY WAS PERFORMED UNDER SNOW AND ICE CONDITIONS.
- MANHOLES IN ROUTE 28 WERE UNABLE TO BE OPEN DUE TO BEING FROZEN SHUT AND OR BOLTED SHUT.



LOCUS MAP
(NOT TO SCALE)

TBM #	DESCRIPTION	ELEV.
1	X-CUT ON HYDRANT FLANGE BOLT	142.49
2	X-CUT ON HYDRANT FLANGE BOLT	138.15

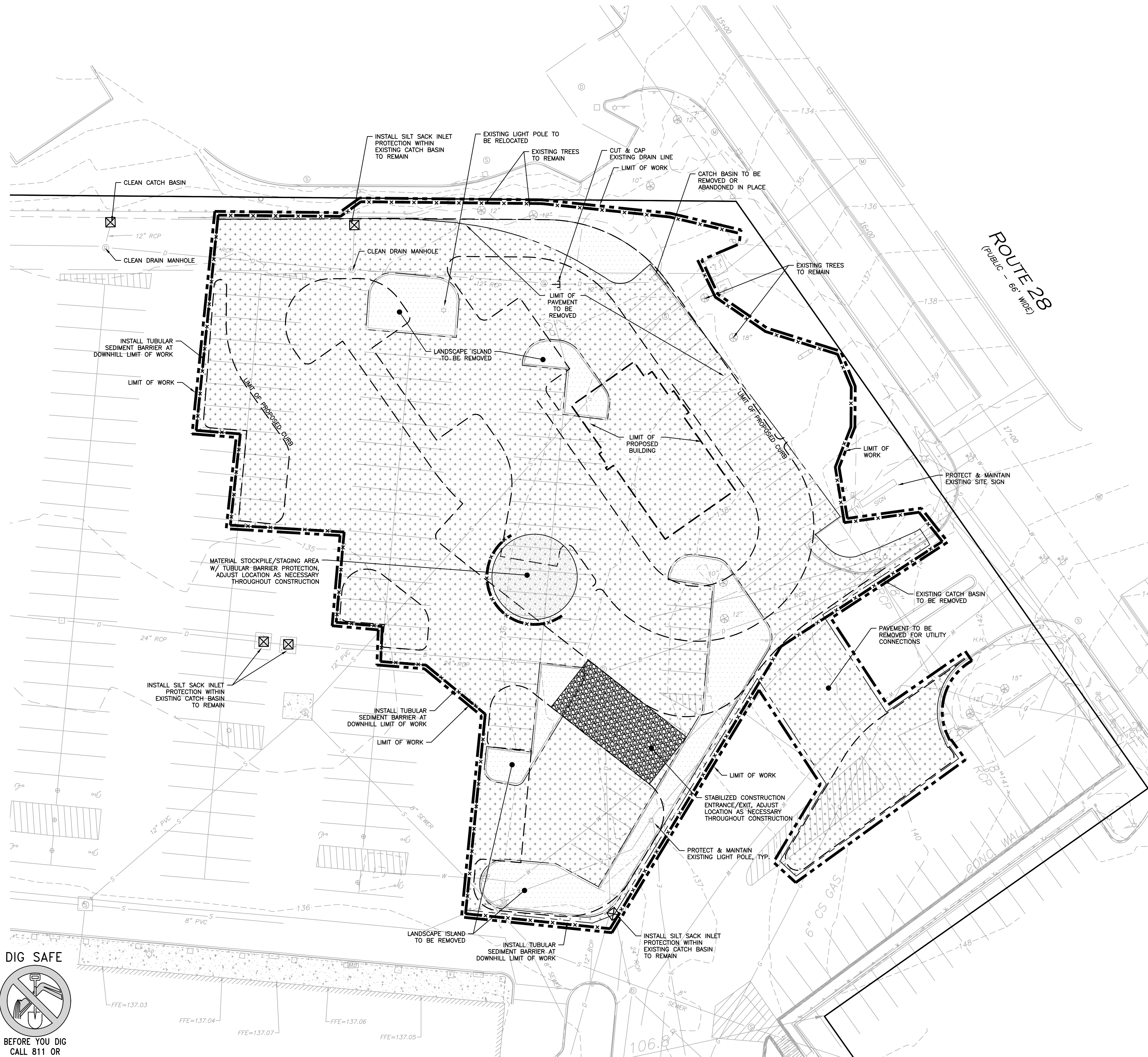


R:\PROJECTS\3115-01A\SURVEY\DRAWINGS\CURRENT\S-3115-01A-EC.DWG

R:\PROJECTS\3115-01A\CIVIL\DRAWINGS\CURRENT\C-3115-01A_SITE-PREP.DWG



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CALL 811 OR
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1-888-344-7233



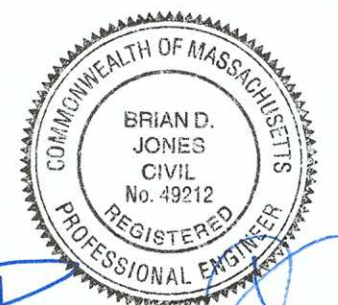
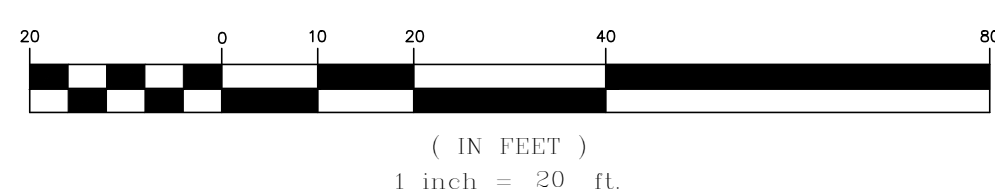
LEGEND

LIMIT OF DISTURBANCE	---
LIMIT OF 'CLEAR AND GRUB'	---
TUBULAR BARRIER	-x-x-
PAVEMENT TO BE REMOVED	----
CATCH BASIN FILTER	☒
UTILITY CUT AND CAP	E-
STABILIZED ENTRANCE	▨
STOCKPILE/STAGING AREA	▨

NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. ALTHOUGH CERTAIN ITEMS HAVE BEEN NOTED ON THIS DRAWING FOR DEMOLITION, NO ATTEMPT HAS BEEN MADE TO DELINEATE EACH AND EVERY ITEM THAT REQUIRES DEMOLITION FOR THE COMPLETION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NECESSARY DEMOLITION WORK TO COMPLETE THE PROJECT. ALLEN & MAJOR ASSOCIATES, INC. IS NOT RESPONSIBLE FOR SITE DEMOLITION ITEMS NOT SHOWN ON THE SURVEY, OR SPECIFICALLY NOTED. THE DEMOLITION NOTES AND ARROWS ON THIS PLAN ARE TYPICAL AND DO NOT REFLECT QUANTITY.
5. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
6. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. IF IT ADDITIONAL MEASURES ARE NECESSARY DURING CONSTRUCTION THEY SHALL BE INSTALLED IMMEDIATELY AND WITHOUT DELAY. SEE DETAIL SHEET C-501 FOR ADDITIONAL INFORMATION.
7. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.

GRAPHIC SCALE



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
3	01-02-24	REVISION 3
2	06-27-23	REVISION 2
1	05-26-23	REVISION 1

APPLICANT/OWNER:

SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:

TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: 1" = 20' DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDJ

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

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DRAWING TITLE:

SITE PREPARATION PLAN

SHEET No.

C-100

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R:\PROJECTS\3115-01A\CIVIL\DRAWINGS\CURRENT\C-3115-01A_LAYOUT & MATERIALS.DWG

LEGEND	
PROPERTY LINE	---
SIGN	•
BOLLARD	•
BUILDING	▬
BUILDING ARCHITECTURE	▬
CURB	▬
PARKING STRIPING	▬
ROADWAY STRIPING	▬
TRAFFIC ARROWS	→ ←
HEAVY DUTY CONCRETE	▬
BITUMINOUS SIDEWALK	▬
CONCRETE SIDEWALK	▬
ADA ACCESSIBLE RAMP	▬
ADA DET. WARNING SURFACE	▬
SNOW STORAGE	▬
SETBACK LINE	---
SAW-CUT LINE	---
PARKING COUNT	⑩
WOOD FENCE	—o—o—o—o—
TRANSFORMER	⊞
PRECAST CONCRETE CURB	PCC
MONOLITHIC CONCRETE CURB	MCC
VERTICAL GRANITE CURB	VGC

ZONING SUMMARY TABLE HIGHWAY BUSINESS DISTRICT (BH)			
ITEM	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	10,000 SF	452,060± SF	452,060± SF
MINIMUM FRONTAGE	100 FT	287.0± FT	287.0± FT
MINIMUM LOT WIDTH	100 FT	287.0± FT	287.0± FT
MINIMUM FRONT YARD SETBACK	25 FT	256.8± FT	64.0± FT
MINIMUM SIDE YARD SETBACK	30 FT	106.8± FT	64.6± FT
MINIMUM REAR YARD SETBACK	30 FT	51.7± FT	51.7± FT
MAXIMUM NUMBER OF STORIES	3	1	1
MAXIMUM BUILDING HEIGHT	40 FT	EXISTING	EXISTING
MAXIMUM LOT COVERAGE	35%	21.5%	22.0%

NOTES:

- A SPECIAL PERMIT IS NEEDED FROM THE COMMUNITY DEVELOPMENT BOARD FOR A DRIVE-THROUGH RESTAURANT USE.
- THE MAXIMUM LOT COVERAGE WAS CALCULATED BY DIVIDING THE BUILDING FOOTPRINT BY THE LOT AREA.

NOTES:

- ALL CURB RADII SHALL BE 3' UNLESS OTHERWISE NOTED.
- PARKING DIMENSIONS ARE TAKEN FROM THE FACE OF CURB UNLESS OTHERWISE NOTED.
- CONSTRUCTION DURING WET WEATHER OR WINTER CONDITIONS IS TO BE ANTICIPATED AND PROVISIONS TO ADEQUATELY ADDRESS THESE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE CITY OF METHUEN, MADOT, MADEP, MUTCD, AND AASHTO.
- WRITTEN DIMENSIONS ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS OR CONDITIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR. ALL SITE ITEMS SHALL BE LAID OUT AND AS BUILT BY A LICENSED LAND SURVEYOR.

- EXISTING CONDITIONS WERE COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC IN FEBRUARY OF 2023, AS WELL AS AVAILABLE RECORD PLANS OBTAINED FROM THE CITY OF METHUEN, MA AND OTHER SOURCES.
- THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR SHALL ALSO CONTACT THE CITY OF METHUEN, MA DEPARTMENT OF PUBLIC WORKS AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF LOCAL UTILITIES.
- THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.



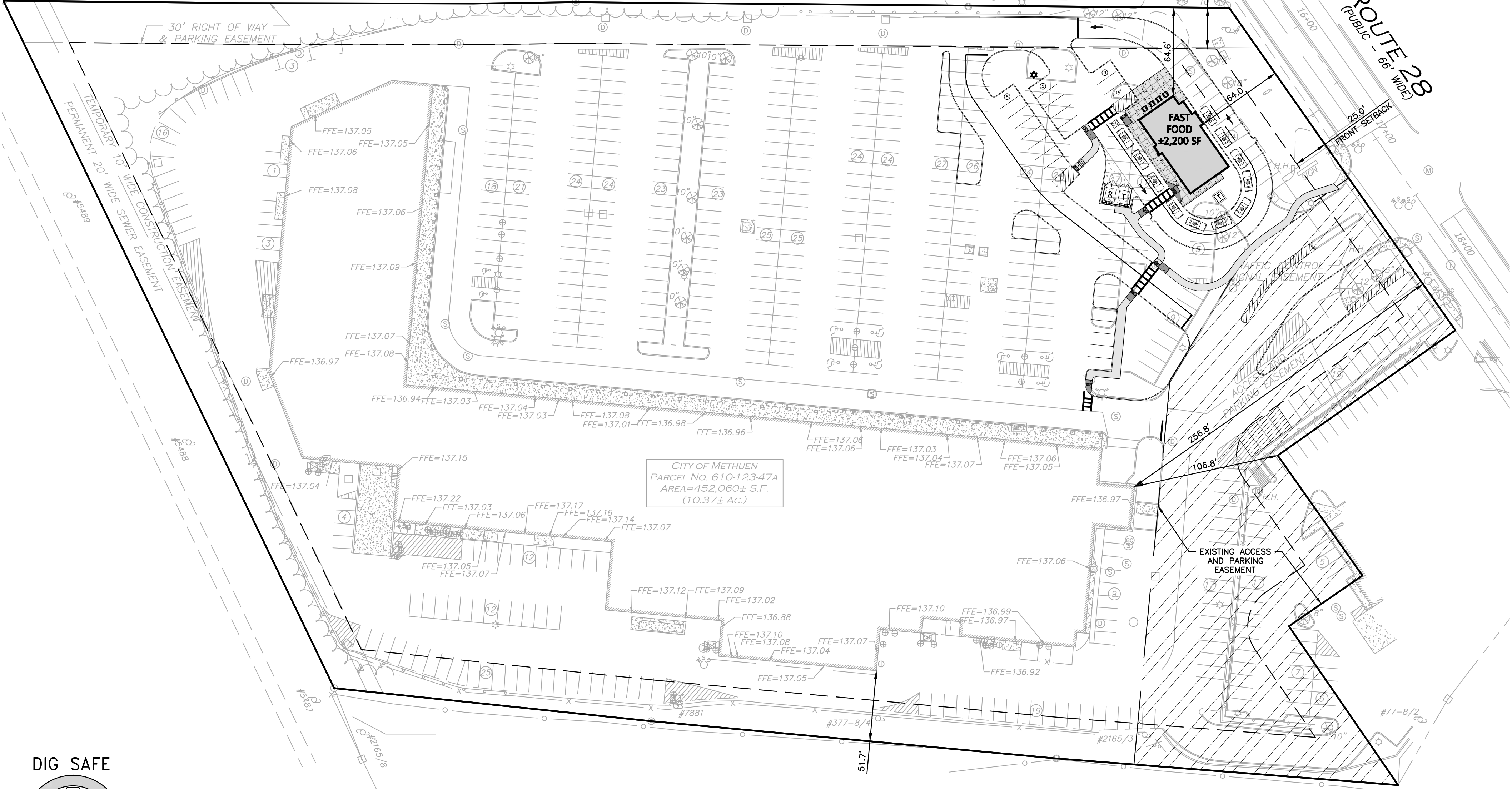
SHARED PARKING SUMMARY TABLE			
PARKING CALCULATIONS WERE DERIVED FROM THE METHUEN ZONING ORDINANCE - TABLE OF REQUIRED OFF-STREET PARKING	REQUIRED PARKING	EXISTING PARKING	PROPOSED PARKING
TENANT 1: RESTAURANT (RESTAURANT: 6,335 S.F.) (1 PER TABLE OF 4 SEATS → 1 x (*80 SEATS/4) = 20.0) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*8 EMP./2) = 4) = 24.0	24.0	—	—
TENANT 2: DOLLAR TREE (RETAIL: 11,482 S.F.) (1 PER 250 S.F. → 1 x (11,482 S.F./250 S.F.) = 45.9) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*10 EMP./2) = 5) = 50.9	50.9	—	—
TENANT 3: WAREHOUSE (WAREHOUSE: 10,000 S.F.) 1 PER 1,200 S.F. → 1 x (10,000 S.F./1,200 S.F.) = 8.3	8.3	—	—
TENANT 4: FAMILY RENTALS FURNITURE (RETAIL: 2,719 S.F.) (1 PER 250 S.F. → 1 x (2,719 S.F./250 S.F.) = 10.9) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*6 EMP./2) = 3) = 13.9	13.9	—	—
TENANT 5: BEAUTACIOUS NAILS (OFFICE: 1,915 S.F.) 1 PER 300 S.F. → 1 x (1,915 S.F./300 S.F.) = 6.4	6.4	—	—
TENANT 6: HARROWS CHICKEN PIES (RESTAURANT: 1,873 S.F.) (1 PER TABLE OF 4 SEATS → 1 x (*24 SEATS/4) = 6.0) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*8 EMP./2) = 4) = 10.0	10.0	—	—
TENANT 7: CHINA BUFFET (RESTAURANT: 7,514 S.F.) (1 PER TABLE OF 4 SEATS → 1 x (*96 SEATS/4) = 24.0) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*16 EMP./2) = 8) = 32.0	32.0	—	—
TENANT 8: WORK OUT WORLD (OTHER INSTITUTION: 21,361 S.F.) 1 PER 600 S.F. → 1 x (21,361 S.F./600 S.F.) = 35.6	35.6	—	—
TENANT 9: AMERICAN CABINET (RETAIL: 4,000 S.F.) (1 PER 250 S.F. → 1 x (4,000 S.F./250 S.F.) = 16.0) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*8 EMP./2) = 4) = 20.0	20.0	—	—
TENANT 10: BAY STATE EYE (OFFICE: 2,000 S.F.) 1 PER 300 S.F. → 1 x (2,000 S.F./300 S.F.) = 6.7	6.7	—	—
TENANT 11: DR. LYONS (OFFICE: 2,000 S.F.) 1 PER 300 S.F. → 1 x (2,000 S.F./300 S.F.) = 6.7	6.7	—	—
TENANT 12: MAYA GOURMET (RESTAURANT: 1,571 S.F.) (1 PER TABLE OF 4 SEATS → 1 x (*24 SEATS/4) = 6.0) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*8 EMP./2) = 4) = 10.0	10.0	—	—
TENANT 13: OFFICE (OFFICE: 400 S.F.) 1 PER 300 S.F. → 1 x (400 S.F./300 S.F.) = 1.3	1.3	—	—
TENANT 14: BLUSH SPA (OFFICE: 1,350 S.F.) 1 PER 300 S.F. → 1 x (1,350 S.F./300 S.F.) = 4.5	4.5	—	—
TENANT 15: FREEDOM TOBACCO (RETAIL: 1,520 S.F.) (1 PER 250 S.F. → 1 x (1,520 S.F./250 S.F.) = 6.1) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*6 EMP./2) = 3) = 9.1	9.1	—	—
TENANT 16: AVAILABLE (RETAIL: 3,913 S.F.) (1 PER 250 S.F. → 1 x (3,913 S.F./250 S.F.) = 15.7) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*10 EMP./2) = 5) = 20.7	20.7	—	—
TENANT 17: MERRIMACK VALLEY CREDIT UNION (OFFICE: 4,000 S.F.) 1 PER 300 S.F. → 1 x (4,000 S.F./300 S.F.) = 13.3	13.3	—	—
TENANT 18: JO-ANN FABRICS (RETAIL: 4,000 S.F.) (1 PER 250 S.F. → 1 x (4,000 S.F./250 S.F.) = 16.0) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*10 EMP./2) = 5) = 21.0	21.0	—	—
TENANT 19: PROPOSED FAST FOOD RESTAURANT (DRIVE-THROUGH RESTAURANT: 2,200 S.F.) (1 PER 250 S.F. → 1 x (2,200 S.F./250 S.F.) = 8.8) + (1 PER 2 EMPLOYEES ON MAXIMUM SHIFT → 1 x (*12 EMP./2) = 6) = 14.8	14.8	—	—
TOTAL PARKING REQUIRED BASED ON INDIVIDUAL USES:	309.2	—	—
TOTAL PARKING PROVIDED:	—	562	478

NOTES:

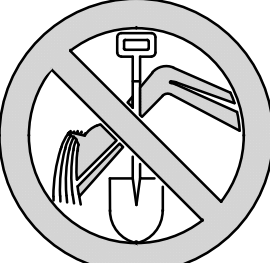
- TENANT NAMES & SQUARE FOOTAGE VALUES WERE PROVIDED TO ALLEN & MAJOR ASSOCIATES BY THE CLIENT.
- "*" ALLEN & MAJOR ASSOCIATES APPROXIMATED VALUES.

ADA SPACES REQUIRED:
(401-500) TOTAL PARKING SPACES PROVIDED, 9 SHALL BE THE MINIMUM ADA PARKING PROVIDED, 2 SPACES BEING VAN ACCESSIBLE.

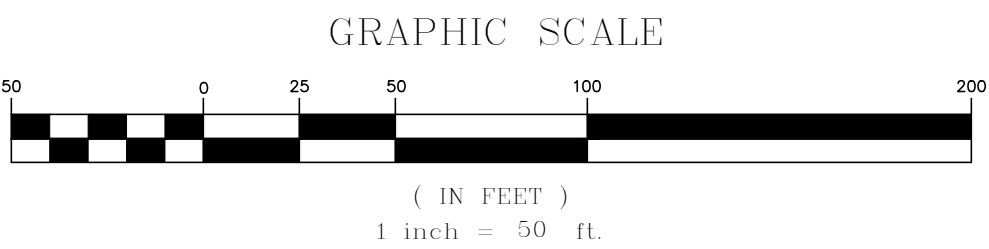
PROVIDED: 10 SPACES, 6 BEING VAN ACCESSIBLE.



DIG SAFE



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1-888-DIG-SAFE
1-888-344-7233



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
3	01-02-24	REVISION 3
2	06-27-23	REVISION 2
1	05-26-23	REVISION 1

APPLICANT/OWNER:
SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: 1" = 50' DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDJ

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

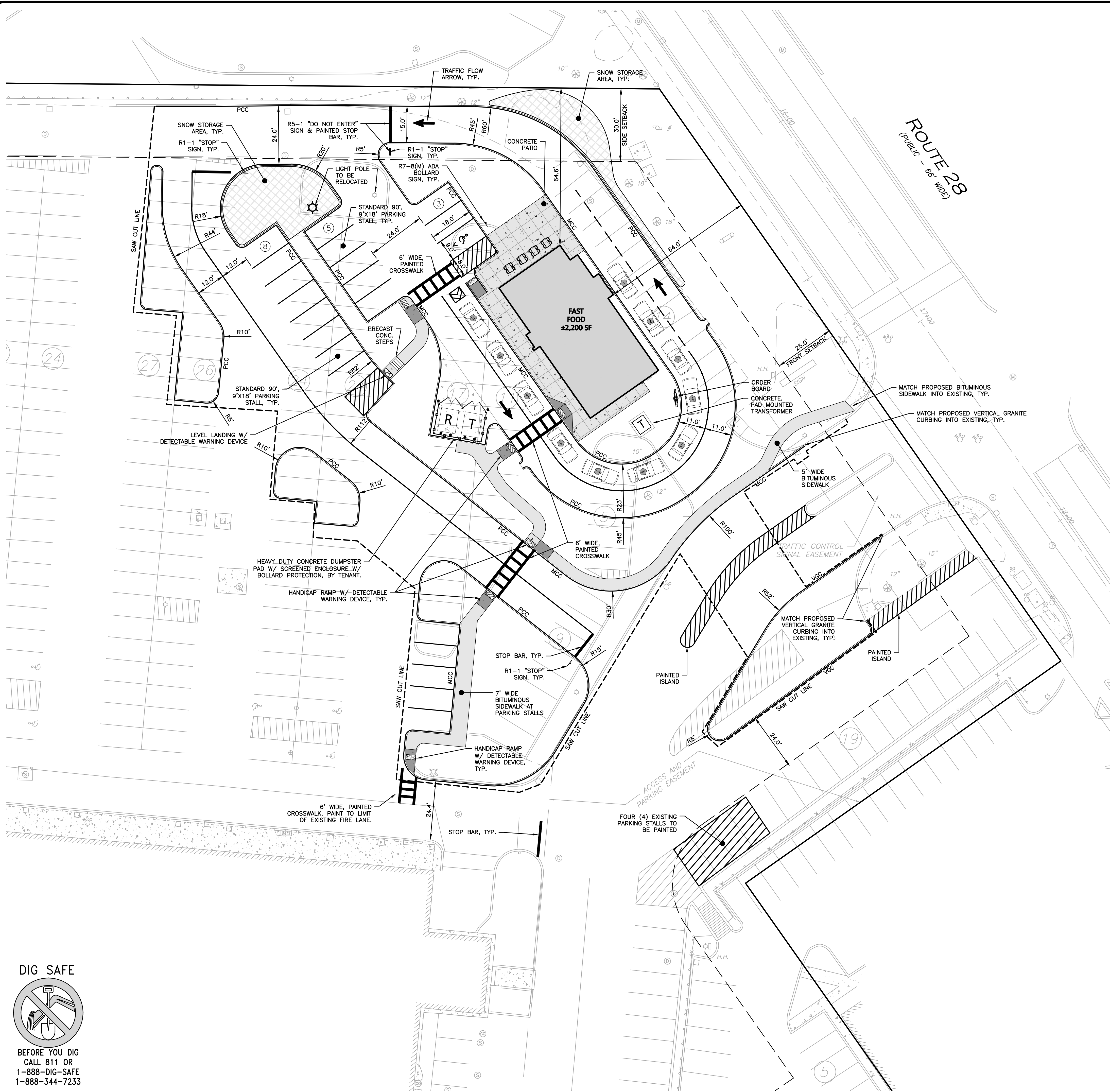
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DRAWING TITLE: SHEET No.

OVERALL SITE PLAN C-101

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R:\PROJECTS\3115-01A\CIVIL\DRAWINGS\CURRENT\C-3115-01A_LAYOUT & MATERIALS.DWG



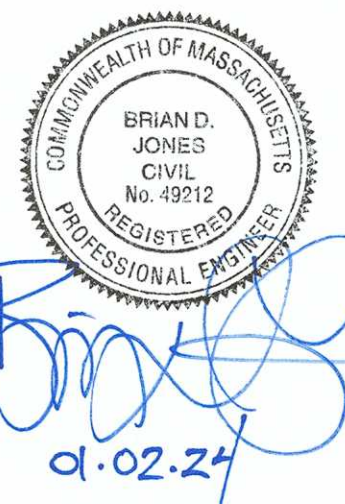
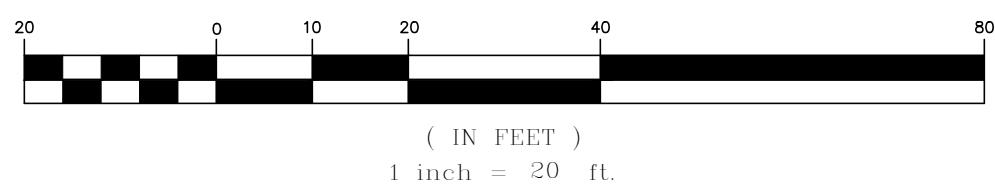
LEGEND

PROPERTY LINE	
SIGN	
BOLLARD	
BUILDING	
BUILDING ARCHITECTURE	
CURB	
PARKING STRIPING	
ROADWAY STRIPING	
TRAFFIC ARROWS	
HEAVY DUTY CONCRETE	
BITUMINOUS SIDEWALK	
CONCRETE SIDEWALK	
ADA ACCESSIBLE RAMP	
ADA DET. WARNING SURFACE	
SNOW STORAGE	
SETBACK LINE	
SAW-CUT LINE	
PARKING COUNT	
WOOD FENCE	
TRANSFORMER	
PRECAST CONCRETE CURB	PCC
MONOLITHIC CONCRETE CURB	MCC
VERTICAL GRANITE CURB	VGC

NOTES:

- HOURS OF OPERATION WILL BE 6AM-MIDNIGHT, MONDAY THROUGH SUNDAY.
- ALL CURB RADII SHALL BE 3' UNLESS OTHERWISE NOTED.
- PARKING DIMENSIONS ARE TAKEN FROM THE FACE OF CURB UNLESS OTHERWISE NOTED.
- CONSTRUCTION DURING WET WEATHER OR WINTER CONDITIONS IS TO BE ANTICIPATED AND PROVISIONS TO ADEQUATELY ADDRESS THESE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE CITY OF METHUEN, MADOT, MADEP, MUTCD, AND AASHTO.
- WRITTEN DIMENSIONS ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS OR CONDITIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR. ALL SITE ITEMS SHALL BE LAID OUT AND AS BUILT BY A LICENSED LAND SURVEYOR.
- EXISTING CONDITIONS WERE COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC IN FEBRUARY OF 2023, AS WELL AS AVAILABLE RECORD PLANS OBTAINED FROM THE CITY OF METHUEN, MA AND OTHER SOURCES.
- THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR SHALL ALSO CONTACT THE CITY OF METHUEN, MA DEPARTMENT OF PUBLIC WORKS AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF LOCAL UTILITIES.
- THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.

GRAPHIC SCALE



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

APPLICANT/OWNER:

SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:

TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: 1" = 20' DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDJ

PREPARED BY:



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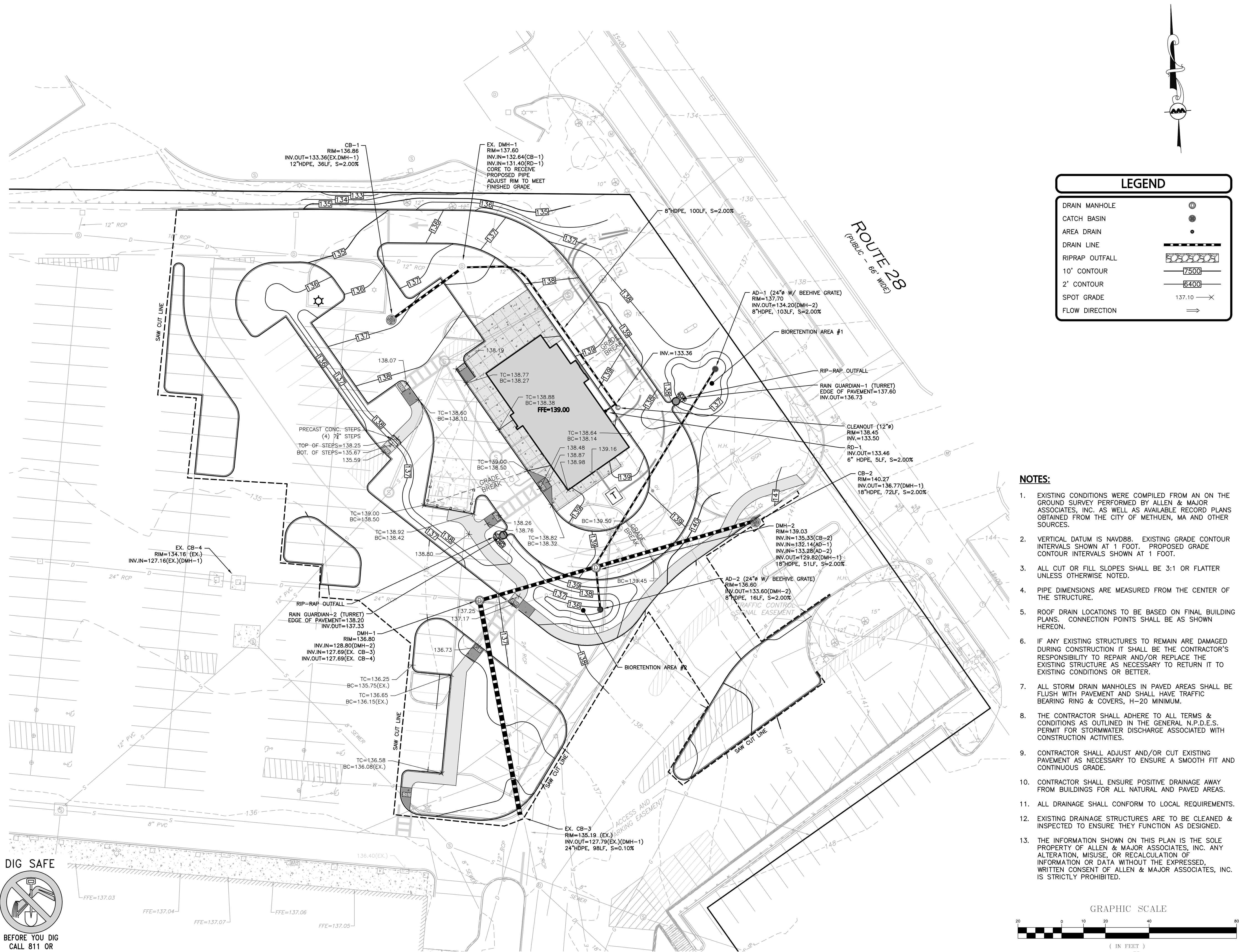
LAYOUT & MATERIALS PLAN

SHEET No.

C-102

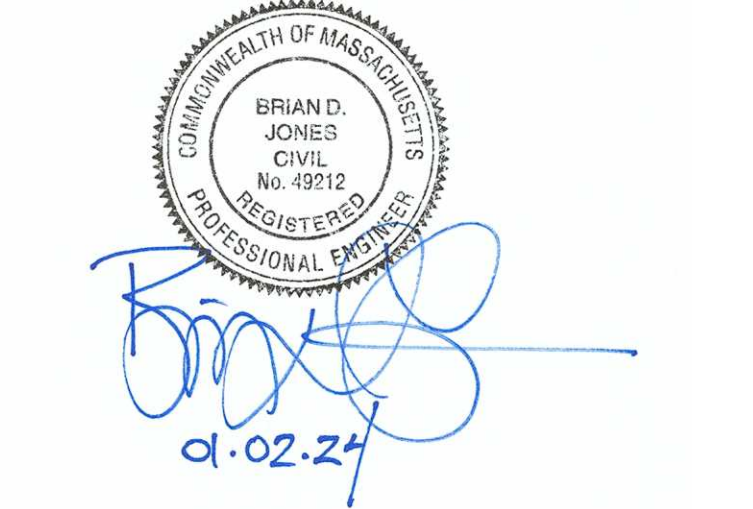
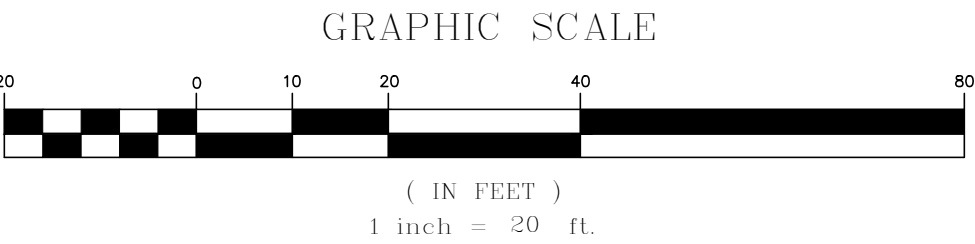
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R:\PROJECTS\3115-01A\CIVIL\DRAWINGS\CURRENT\C-3115-01A_GRADING & DRAINAGE.DWG



LEGEND	
DRAIN MANHOLE	
CATCH BASIN	
AREA DRAIN	
DRAIN LINE	
RIPRAP OUTFALL	
10' CONTOUR	
2' CONTOUR	
SPOT GRADE	
FLOW DIRECTION	

- NOTES:**
- EXISTING CONDITIONS WERE COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC. AS WELL AS AVAILABLE RECORD PLANS OBTAINED FROM THE CITY OF METHUEN, MA AND OTHER SOURCES.
 - VERTICAL DATUM IS NAVD88. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
 - ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
 - PIPE DIMENSIONS ARE MEASURED FROM THE CENTER OF THE STRUCTURE.
 - ROOF DRAIN LOCATIONS TO BE BASED ON FINAL BUILDING PLANS. CONNECTION POINTS SHALL BE AS SHOWN HEREON.
 - IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
 - ALL STORM DRAIN MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING & COVERS, H=20 MINIMUM.
 - THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
 - CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ENSURE A SMOOTH FIT AND CONTINUOUS GRADE.
 - CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
 - ALL DRAINAGE SHALL CONFORM TO LOCAL REQUIREMENTS.
 - EXISTING DRAINAGE STRUCTURES ARE TO BE CLEANED & INSPECTED TO ENSURE THEY FUNCTION AS DESIGNED.
 - THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
3	01-02-24	REVISION 3
2	06-27-23	REVISION 2
1	05-26-23	REVISION 1

APPLICANT/OWNER:
SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO.	3115-01A	DATE:	03/31/2023
SCALE:	1" = 20'	DWG. NAME:	C-3115-01A
DESIGNED BY:	JRG	CHECKED BY:	BDJ

PREPARED BY:

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DRAWING TITLE:	SHEET No.
GRADING & DRAINAGE PLAN	C-103

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UTILITY NOTES:

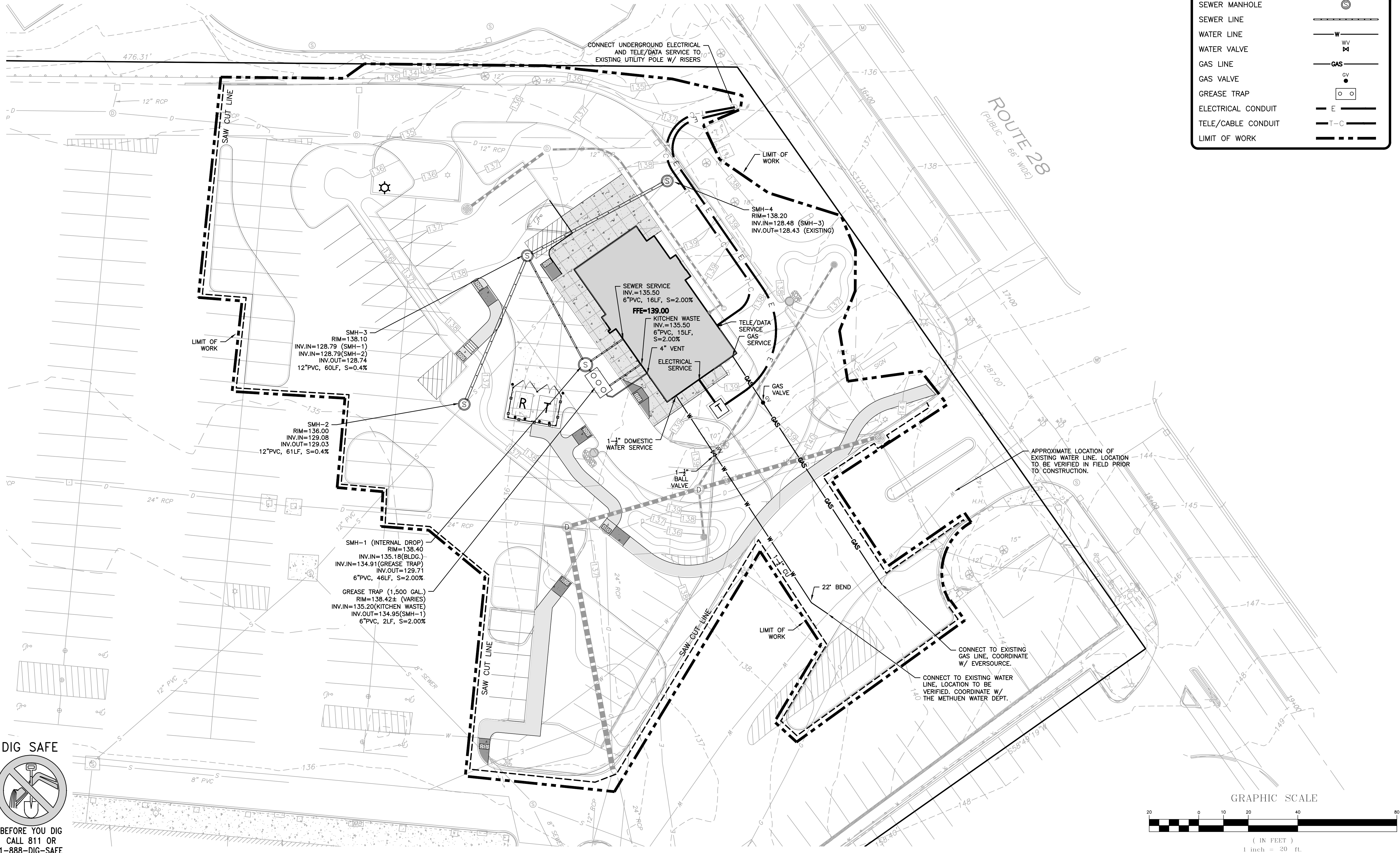
- A MINIMUM OF 10 FEET CLEAR HORIZONTALLY SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER MAINS AND/OR STORM DRAINS. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET TO A WATER MAIN, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH AND THE DIFFERENCE IN ELEVATION BETWEEN THE WATER MAIN AND THE SEWER MAIN SHALL BE AT LEAST 18 INCHES.
- IN THE CASE THAT WATER MAINS CROSS SANITARY SEWER MAINS AND/OR STORM DRAINS AND ARE SEPARATED BY LESS THAN 18" OF VERTICAL CLEARANCE, THE CROSSING PIPES SHALL BE ENCASED IN CONCRETE OR SLEEVED IN A LARGER DIAMETER PIPE FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING.
- THE CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL ROOF DRAIN LATERALS AND UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRIC, TELEPHONE, AND GAS SERVICE. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND COORDINATE WITH THE PROPER AGENCY THE LOCATION AND SCHEDULING OF CONNECTIONS WITH THEIR FACILITIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.

- ABANDONED EXISTING UTILITIES AND UTILITIES TO BE ABANDONED SHALL EITHER BE ABANDONED IN PLACE AS NOTED OR SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED. ALL UTILITIES SCHEDULED FOR ABANDONMENT OR REMOVAL AND DISPOSAL MUST BE COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY OWNER. WHEN ABANDONED UTILITIES ARE TO BE LEFT IN PLACE, PLUG OR CAP THE ENDS OF THE CONDUITS AND PIPES. REMOVE ABANDONED UTILITY MANHOLES, JUNCTION BOXES AND SIMILAR STRUCTURES TO A MINIMUM DEPTH OF 4 FEET BELOW FINISHED GRADE AND PUNCTURE OR BREAK THE BOTTOM SLABS OF MANHOLES AND SIMILAR STRUCTURE TO ALLOW DRAINAGE. BACKFILL AND COMPACT EXCAVATIONS RESULTING FROM REMOVAL OF UTILITY FACILITIES, AS REQUIRED TO RESTORE THE ORIGINAL GRADE.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENTS OF NATURAL GAS, ELECTRIC, TELEPHONE AND ANY OTHER UTILITY BY THE UTILITY OWNER.
- ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET OF COVER AND A MAXIMUM OF 8 FEET OF COVER EXCEPT AS NOTED OR DETAILED OTHERWISE.
- ALL WATER MAINS 3 INCHES AND LARGER SHALL BE CEMENT LINED DUCTILE IRON - CLASS 52, AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED FITTINGS AND GATE VALVES.
- DOMESTIC WATER SERVICES SHALL BE INSTALLED WITH APPROPRIATELY SIZED GATE, BOX AND TEE FITTINGS.
- ALL WATER MAIN APPURTENANCES, MATERIALS, METHODS OF INSTALLATION AND TESTING REQUIREMENTS SHALL MEET OR EXCEED THE METHUEN WATER DEPARTMENT'S REQUIREMENTS.

- GENERALLY, WATER MAIN FITTINGS, AND VALVES SHOWN ON THIS DRAWING ARE FOR INSTALLATION LOCATION PURPOSES. THE CONTRACTOR SHALL NOTE THAT NOT ALL FITTINGS AND VALVES ARE NOTED, SHOWN OR INDICATED.
- LOCATION OF PROPOSED ELECTRICAL/COMMUNICATION SERVICE IS SCHEMATIC IN NATURE AND FOR COORDINATION PURPOSES ONLY. SPECIFIC ALIGNMENTS ARE TO BE DESIGNED BY OTHERS AND REVIEWED BY THE UTILITY PROVIDING SERVICE. PROPOSED ELECTRICAL SERVICE TO BE BURIED IN ACCORDANCE WITH THE TOWN OF NEWINGTON REGULATIONS AND ELECTRIC COMPANY.
- LOCATION OF PROPOSED GAS MAIN IS SCHEMATIC IN NATURE AND FOR COORDINATION PURPOSES ONLY. SPECIFIC ALIGNMENTS ARE TO BE DESIGNED BY OTHERS AND REVIEWED BY THE UTILITY PROVIDING SERVICE.
- THE LOCATION OF THE EXISTING WATER LINE IS SCHEMATIC IN NATURE AND IS TO BE CONFIRMED USING GROUND PENETRATING RADAR (GPR).

LEGEND

SEWER MANHOLE	
SEWER LINE	
WATER LINE	
WATER VALVE	
GAS LINE	
GAS VALVE	
GREASE TRAP	
ELECTRICAL CONDUIT	
TELE/CABLE CONDUIT	
LIMIT OF WORK	



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

3	01-02-24	REVISION 3
2	06-27-23	REVISION 2
1	05-26-23	REVISION 1

APPLICANT/OWNER:

SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:

TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: 1" = 20' DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDJ

PREPARED BY:

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DRAWING TITLE:

UTILITIES PLAN

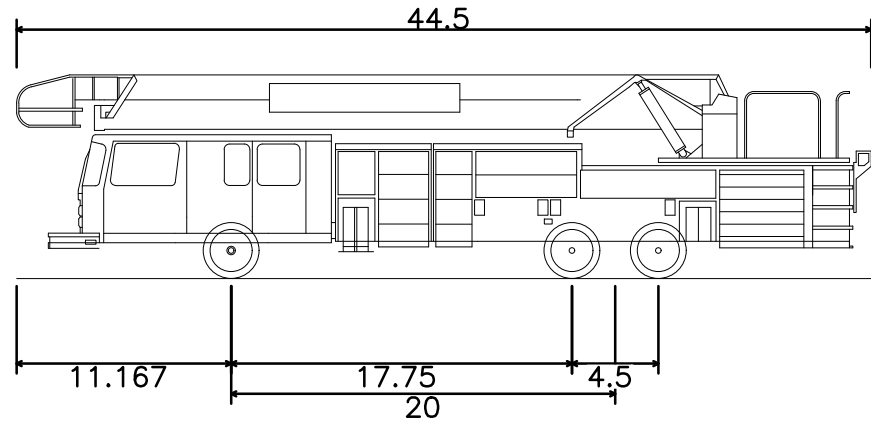
SHEET NO.

C-104

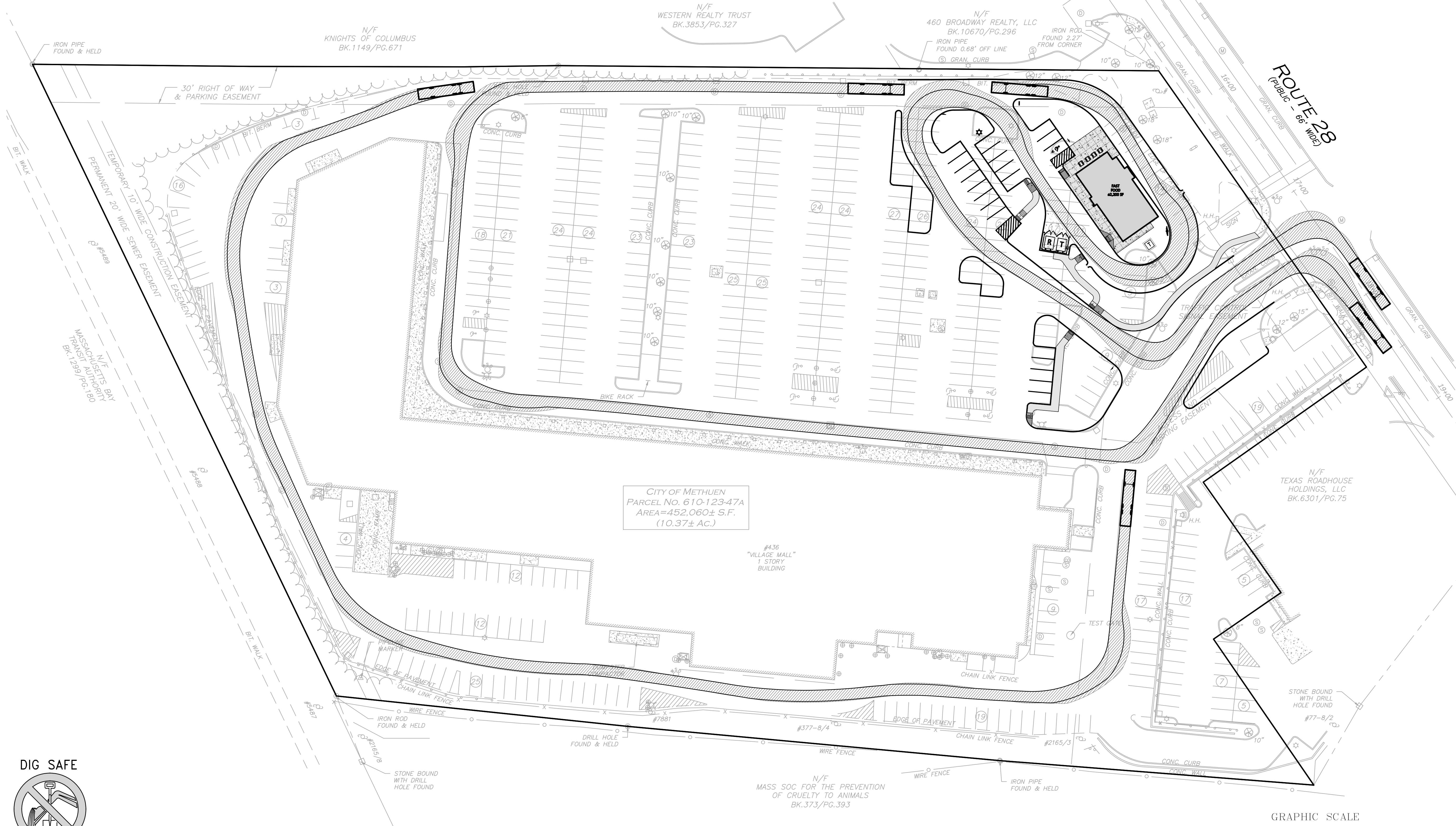
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NOTES:

1. VEHICLE TRACKING SOFTWARE BY AUTODESK WAS USED TO MODEL THE METHUEN 95' AERIALCAT REARMOUNT PLATFORM FIRE TRUCK.
2. EXISTING CONDITIONS WERE COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC IN FEBRUARY OF 2023, AS WELL AS AVAILABLE RECORD PLANS OBTAINED FROM THE CITY OF METHUEN, MA AND OTHER SOURCES.
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95' AERIALCAT REARMOUNT PLATFORM
OVERALL LENGTH 44.5 FT
OVERALL WIDTH 8.3 FT
OVERALL BODY HEIGHT 11.75 FT
MIN BODY GROUND CLEARANCE 1.4 FT
TRACK WIDTH 8.3 FT
LOCK-TO-LOCK TIME 6.00s
MAX WHEEL ANGLE 45.00°



ROUTE 28
(Public - 86' WIDE)



Brian D. Jones
d.02.24

PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
2	06-27-23	REVISION 2
1	05-26-23	REVISION 1

APPLICANT/OWNER:

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PO BOX 2022
DANVERS, MA 01923

PROJECT:

TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A DATE: 03/31/2023

SCALE: 1" = 40' DWG. NAME: C-3115-01A

DESIGNED BY: JRG CHECKED BY: BDI

PREPARED BY:

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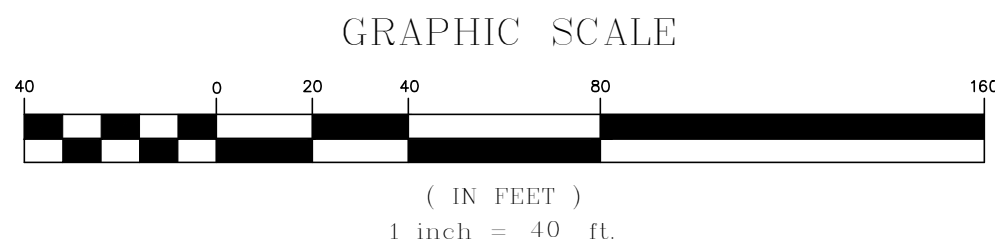
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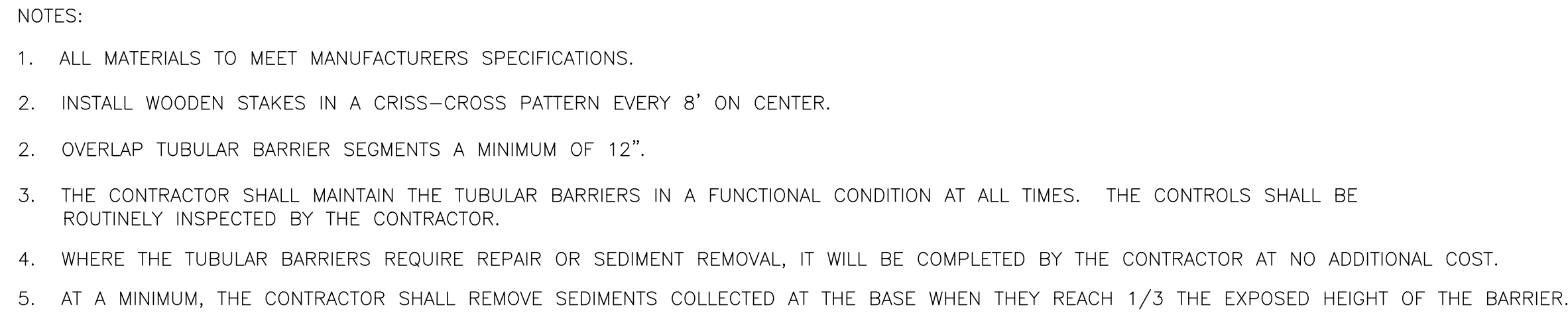
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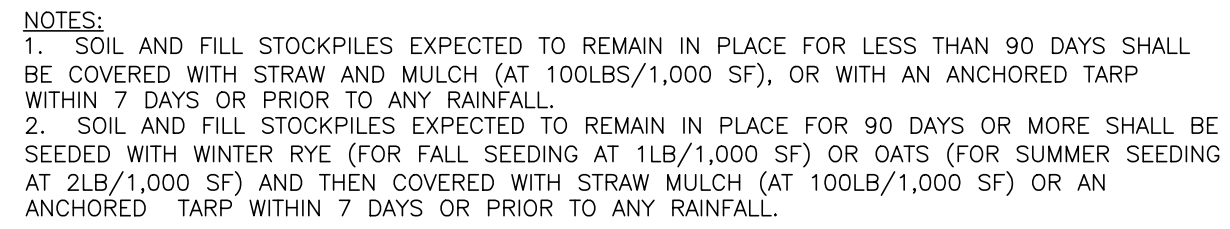


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1-888-344-7233

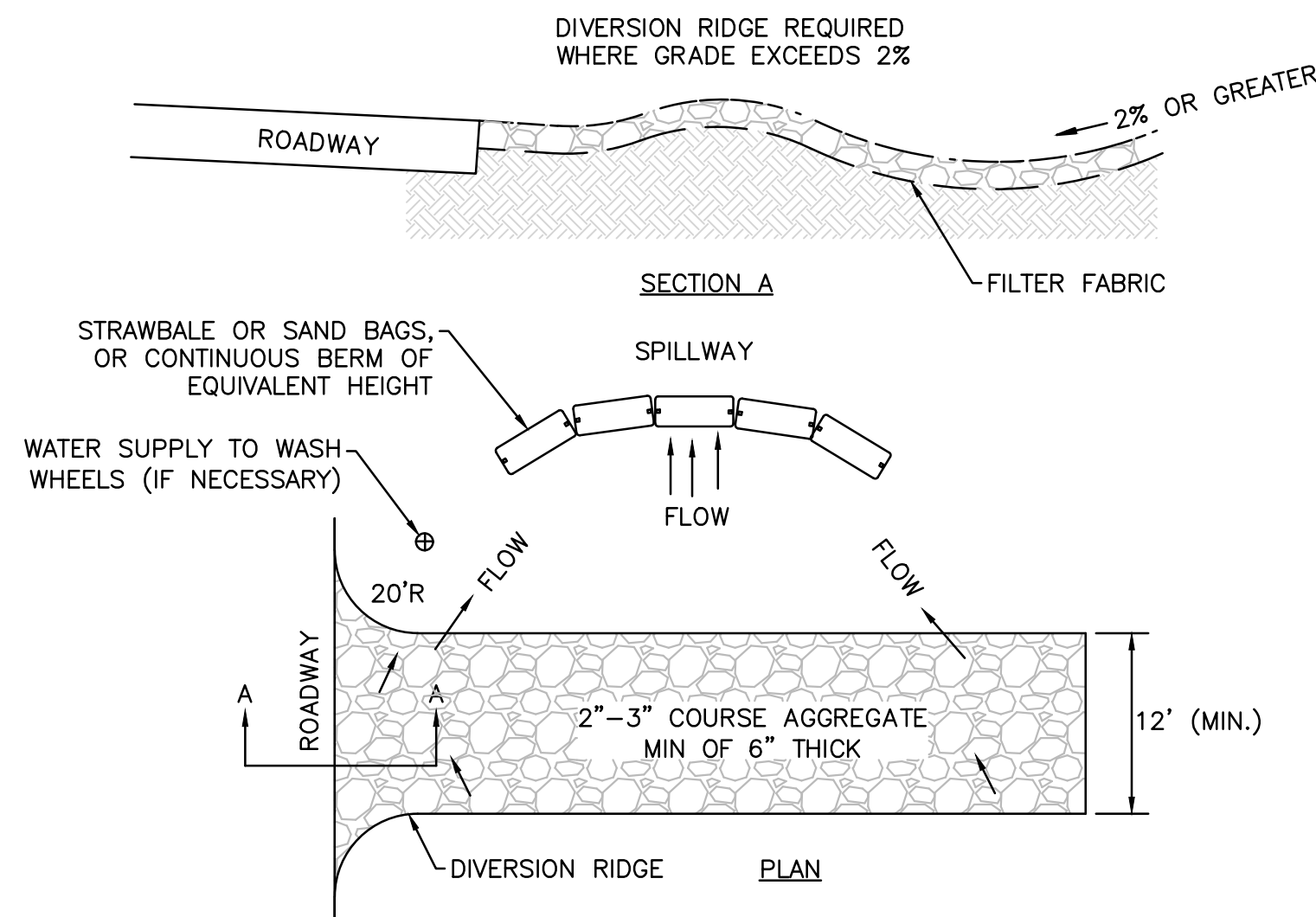




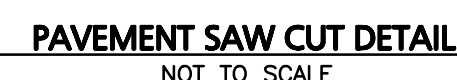
TUBULAR SEDIMENT BARRIER
NOT TO SCALE



STOCKPILE PROTECTION DETAIL
NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE



2	06-27-23	REVISION 2
1	05-26-23	REVISION 1
REV	DATE	DESCRIPTION

APPLICANT\OWNER:

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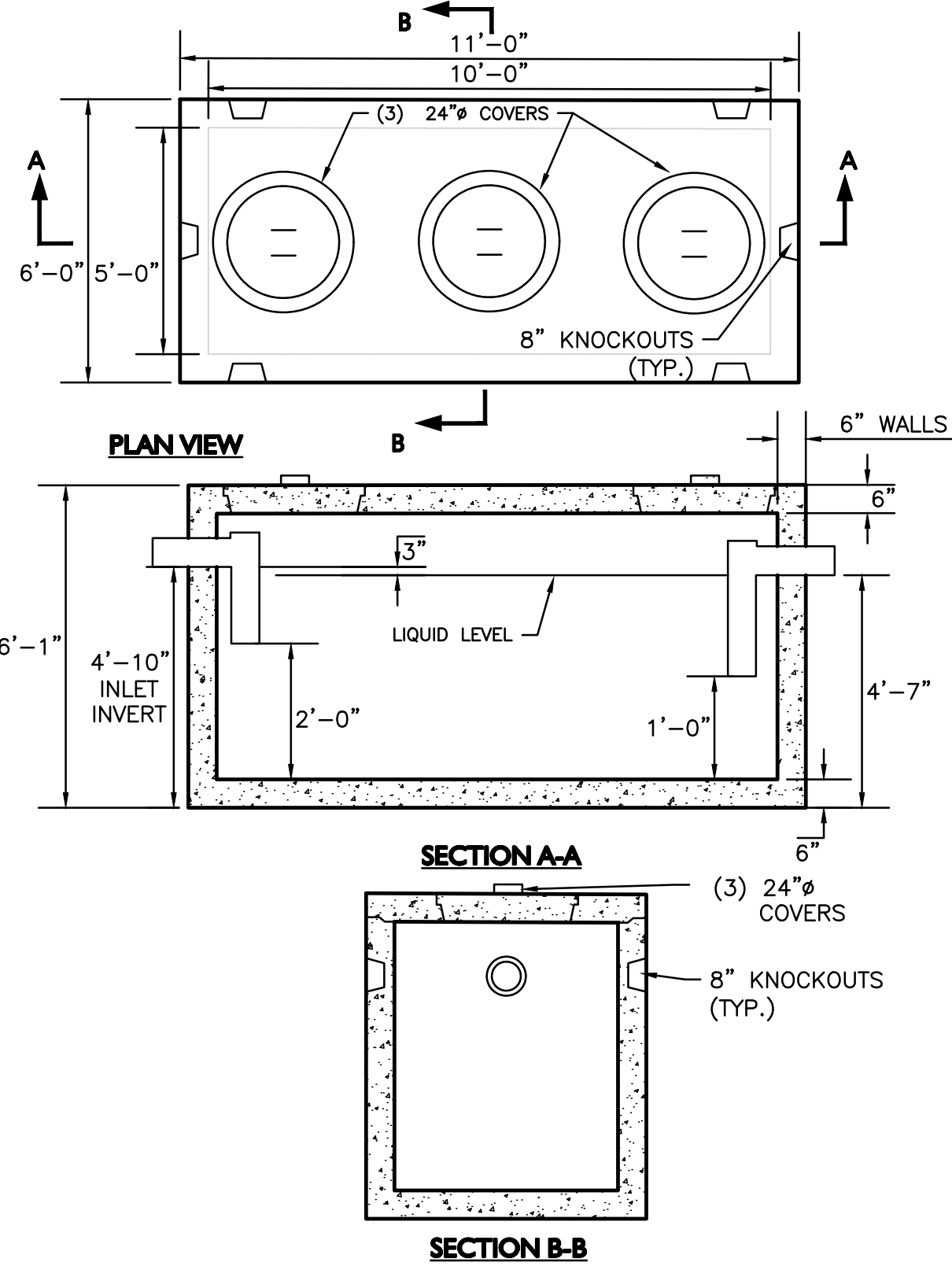
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DRAWING TITLE:

DETAILS

SHEET No.

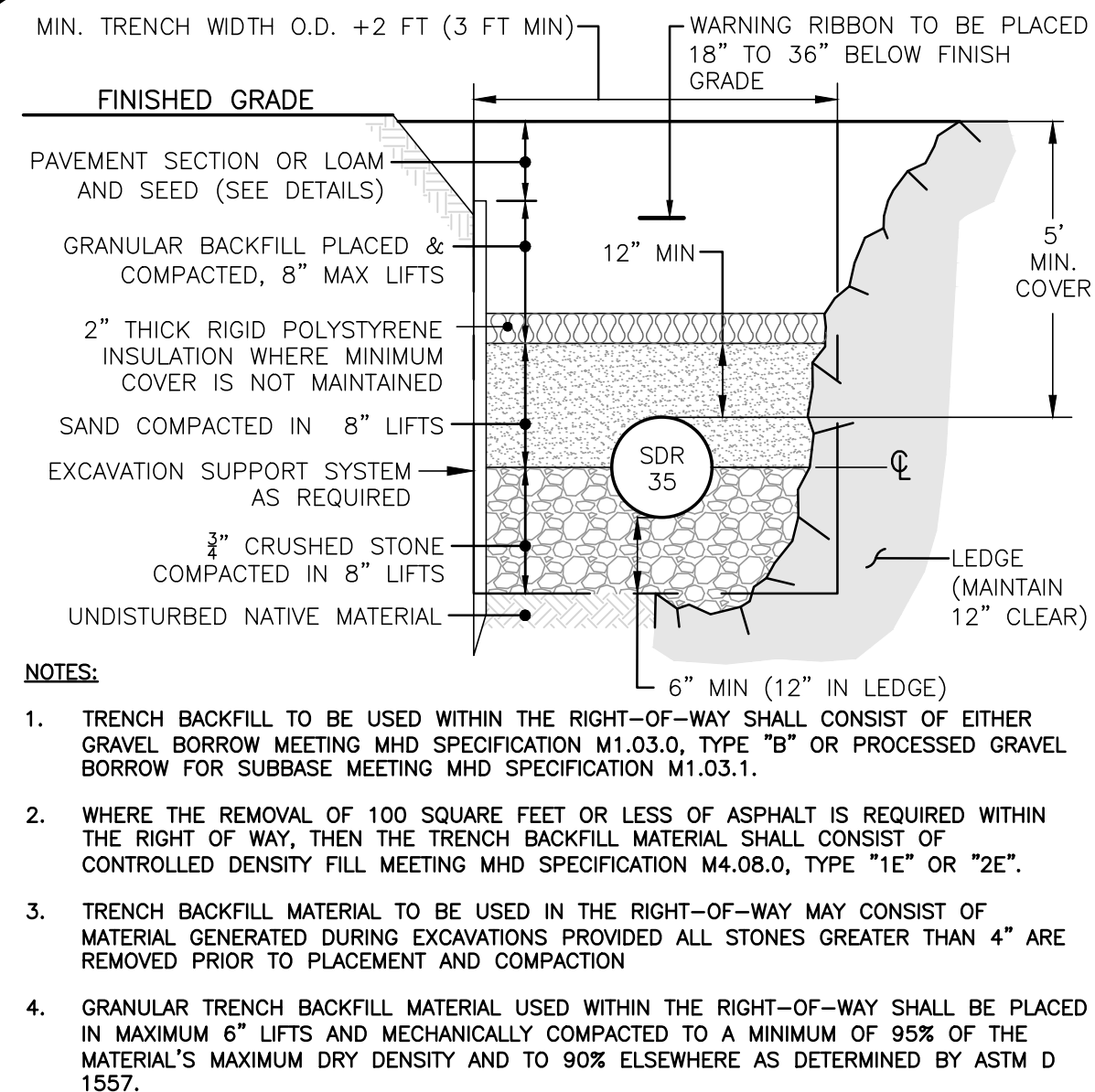
C-501



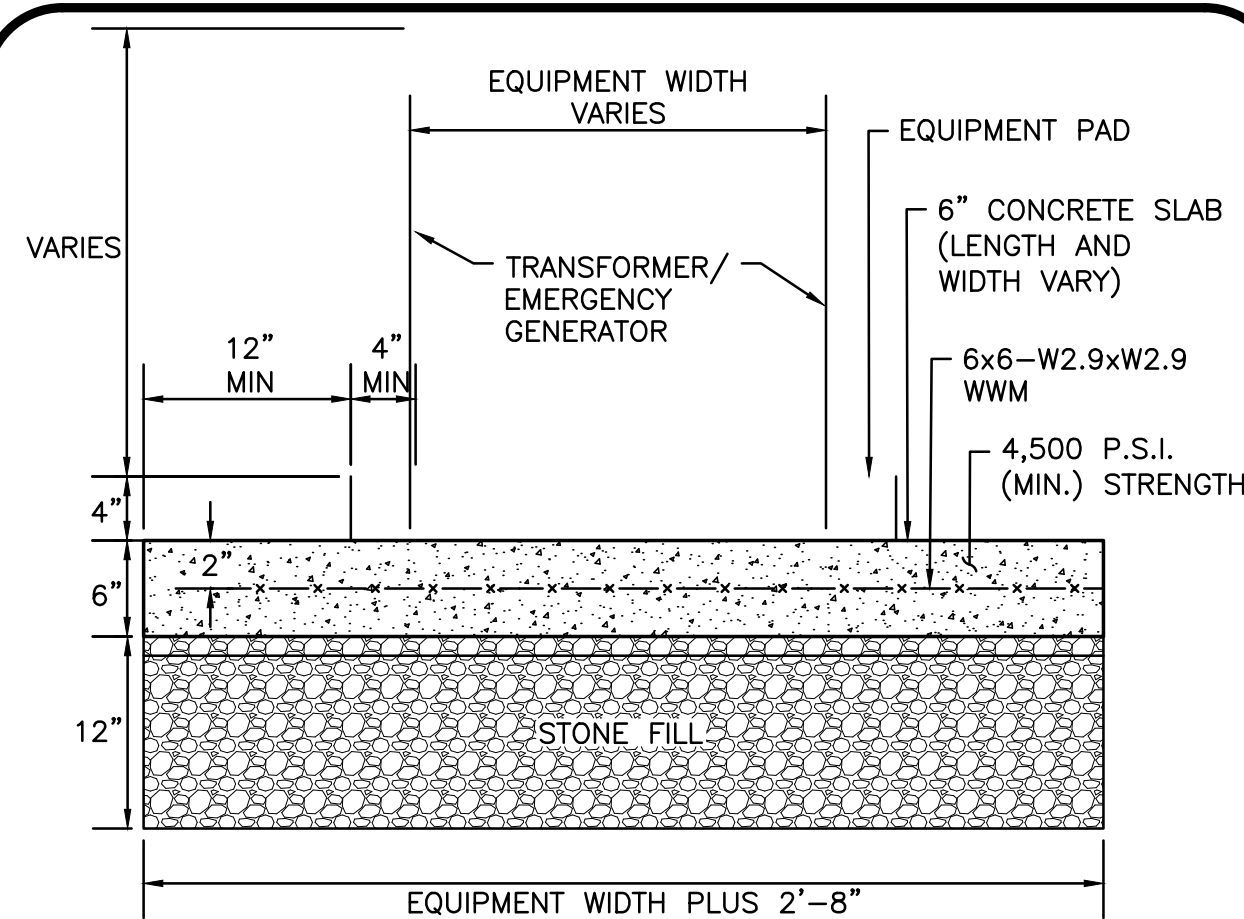
- MANUFACTURER'S NOTES:**
1. CONCRETE, 5,000 PSI MINIMUM STRENGTH @ 28 DAYS.
 2. DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 REGS.
 3. STEEL REINFORCING-ASTM A-615, GRADE 60.
 4. COVER TO STEEL-1" MINIMUM.
 5. TANKS ARE DESIGNED TO MEET ASTM C858 AND ACI 318 WITH ASHHTO HS-20 LOADING.
 6. EARTH COVER: 1 TO 5 FEET MAX.
 7. CONSTRUCTION JOINT SEALED WITH 1" DIA. BUTYL RUBBER OR EQUIVALENT.

- ADDITIONAL NOTES:**
1. ALL PIPE GOING TO, WITHIN, AND TO 10 FEET BEYOND THE CONCRETE STRUCTURE, INCLUDING THE 4" VENT PIPE, SHALL BE THE RESPONSIBILITY OF THE PLUMBING PROFESSIONAL.
 2. ALL PIPE, INCLUDING THE 4" VENT PIPE TO THE ROOF, SHALL BE CAST IRON.
 3. THE PLUMBING PROFESSIONAL SHOULD COORDINATE INSTALLATION OF THE TANK, ACCESS MANHOLES, AND DETAILS OF EXCAVATION, BACKFILLING, AND WATERPROOFING WITH THE CIVIL ENGINEER.
 4. ADJUST TO GRADE WITH MINIMUM 12" OF CONCRETE BRICK AND MORTAR (RED BRICK SHALL NOT BE USED).
 5. BUTYL RUBBER JOINT SEALANT SHALL BE USED AT ALL JOINTS.

GREASE TRAP (1,500 GAL)
NOT TO SCALE

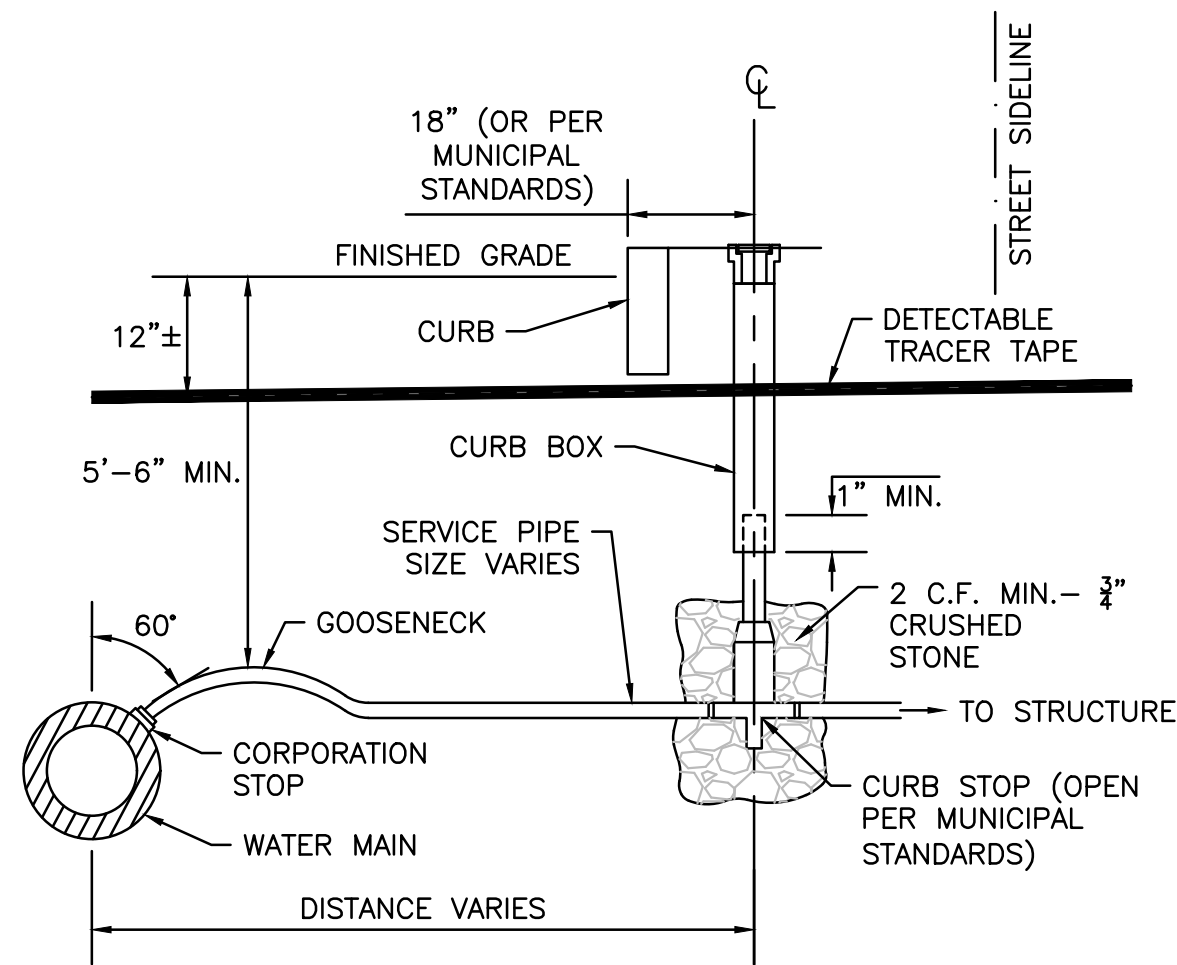


SEWER TRENCH
NOT TO SCALE



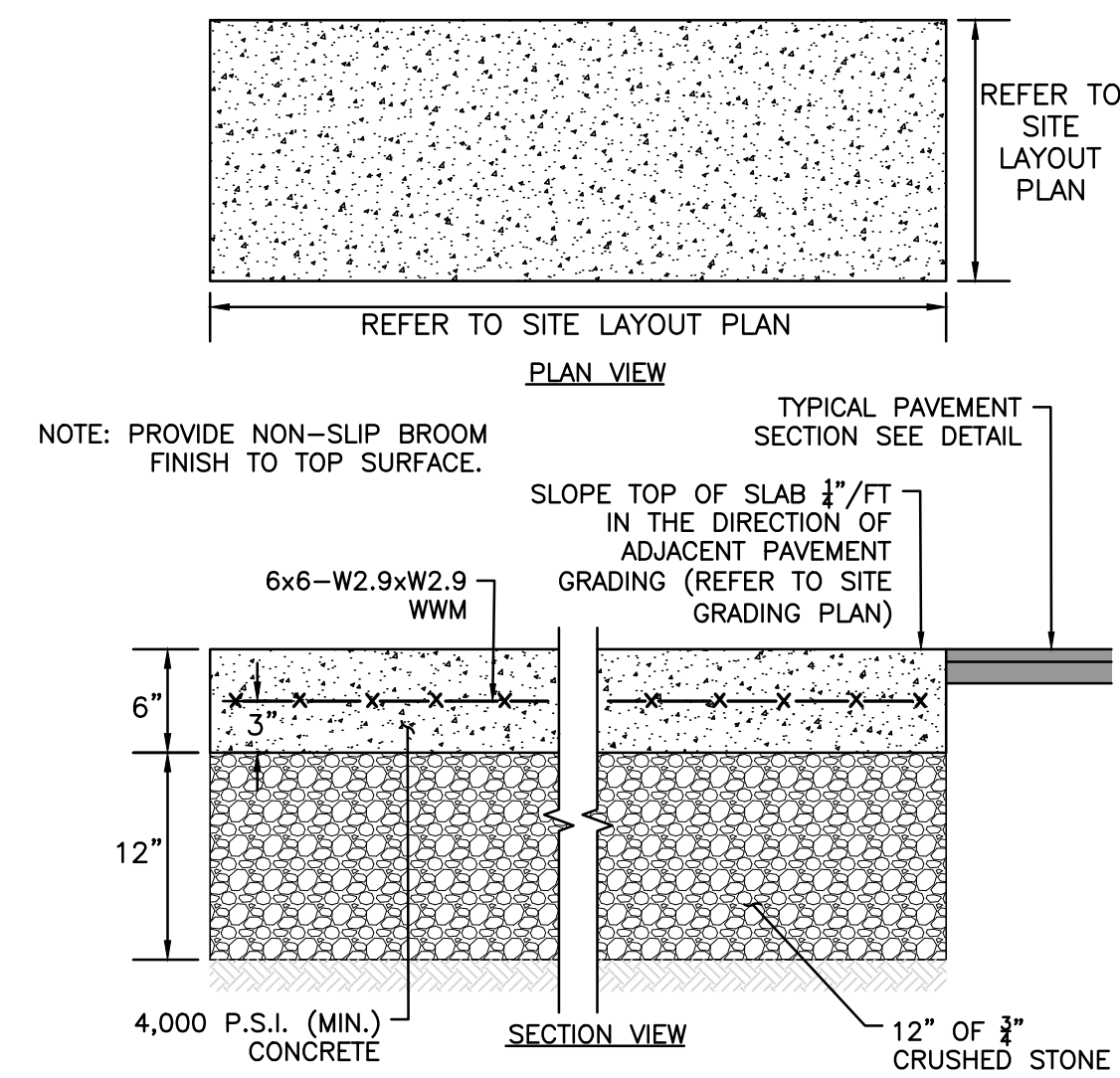
- NOTES:**
1. REFERENCE MECHANICAL ENGINEER'S PLANS FOR ANY PIPE, CONDUIT AND GROUND WIRE LOCATIONS.
 2. NO BOLLARDS ARE CURRENTLY SHOWN AT TRANSFORMER PAD LOCATIONS, HOWEVER, BOLLARD REQUIREMENTS SHALL BE COORDINATED WITH SERVICE PROVIDER IN ACCORDANCE WITH THEIR REGULATIONS.

TRANSFORMER PAD DETAIL
NOT TO SCALE



- NOTES:**
1. WATER SERVICES LARGER THAN 1" ARE TO BE RESTRAINED TO WATER MAIN WITH APPROVED SADDLE.

TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE

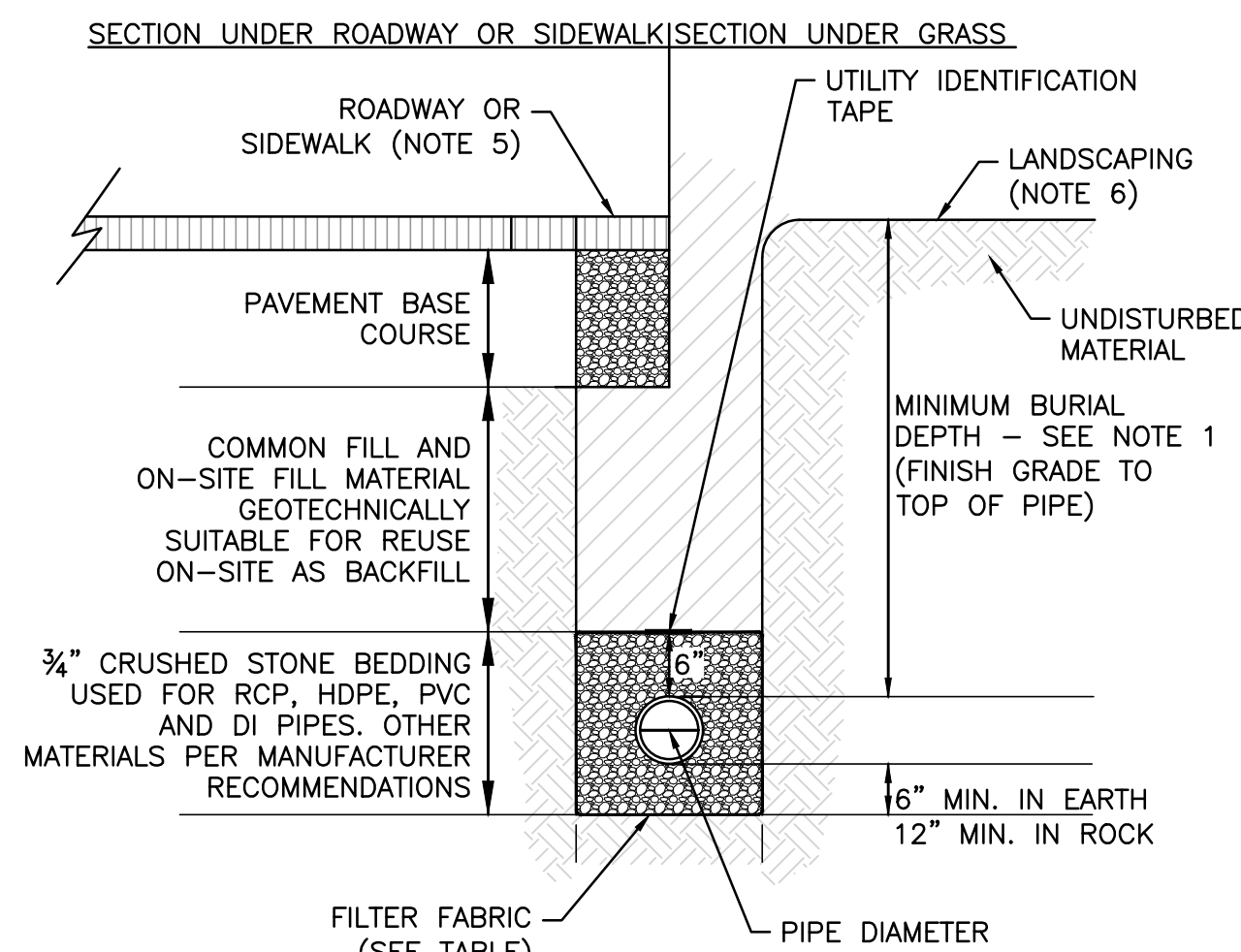


CONCRETE DUMPSTER PAD
NOT TO SCALE

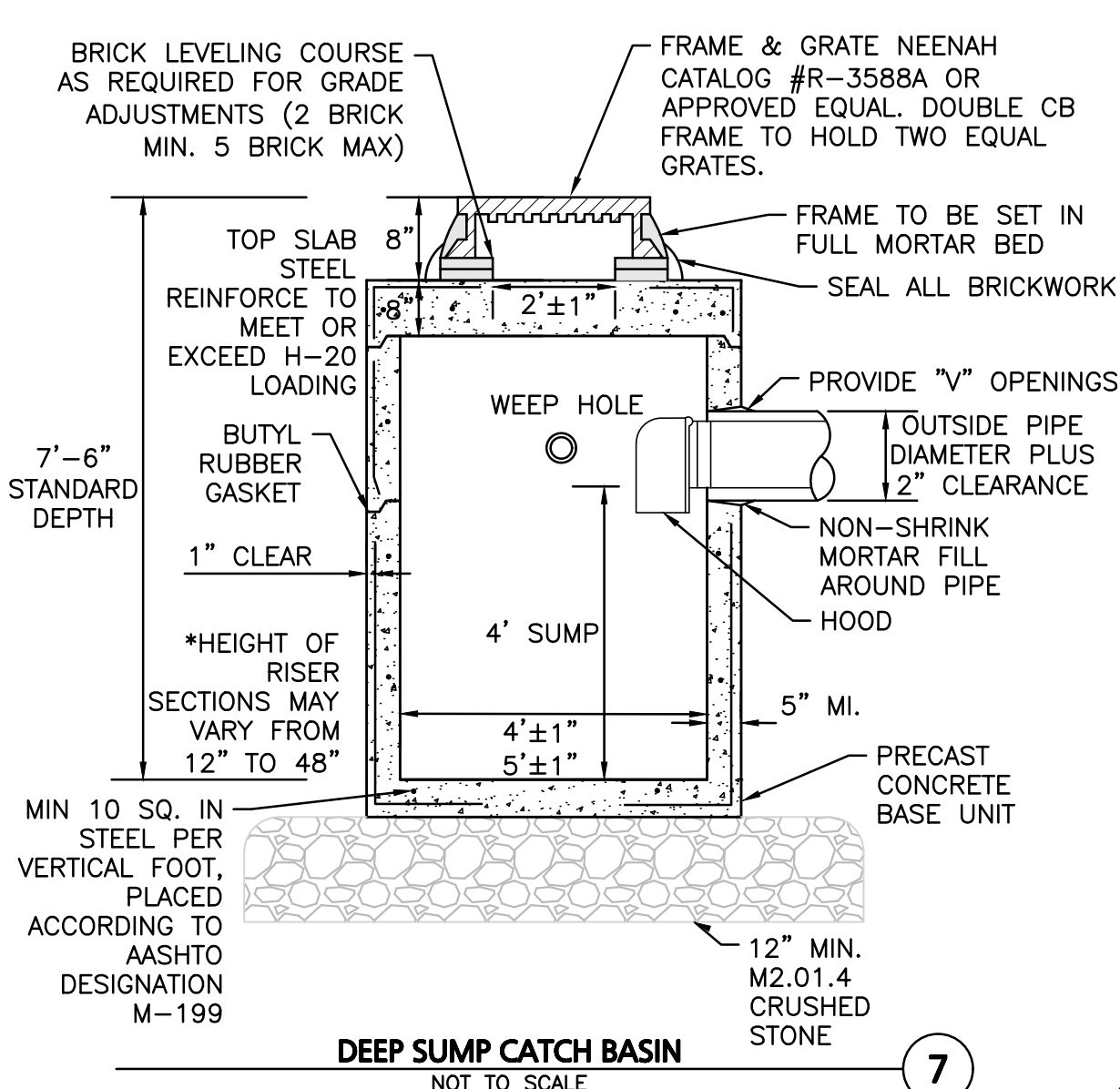
NOTES:

1. MINIMUM BURIAL DEPTH (FINISH GRADE TO TOP OF PIPE)
GRAVITY PIPE (SEWER & DRAIN) - SEE PLAN OR PROFILE
PRESSURE PIPE UNDER PAVING - 4'
PRESSURE PIPE BENEATH UNPAVED - 3'
WATER PIPE - 5'
2. WHERE BACKFILL IS DESIGNATED AS COMPACTED, THIS MEANS 90 TO 95% STANDARD PROCTOR. AASHTO T-99. ALL FILL PLACED BELOW PIPES AND STRUCTURES MUST MEET THIS REQUIREMENT.
3. TRENCHES WITHIN PUBLIC RIGHT OF WAY MAY REQUIRE FLOWABLE FILL. VERIFY WITH MUNICIPAL ENGINEER.
4. WHERE WASTE FILLS ARE ENCOUNTERED AT SUBGRADE LEVEL FOR NEW UTILITIES, THE FILL SHOULD BE OVER-EXCAVATED, THE SUBGRADE SHOULD BE RE-COMPACTED, AND BACKFILL CONSISTING OF PIPE BEDDING MATERIAL, CRUSHED STONE OR OTHER SUITABLE GRANULAR FILL SHOULD BE PLACED TO A SUFFICIENT DEPTH TO CREATE A FIRM AND STABLE SUBGRADE (TYPICALLY 12 TO 18 INCHES OVER-EXCAVATION).
5. REFER TO PAVING, CURBS, WALKS AND DRIVEWAY DETAILS.
6. REFER TO LANDSCAPING DETAILS.

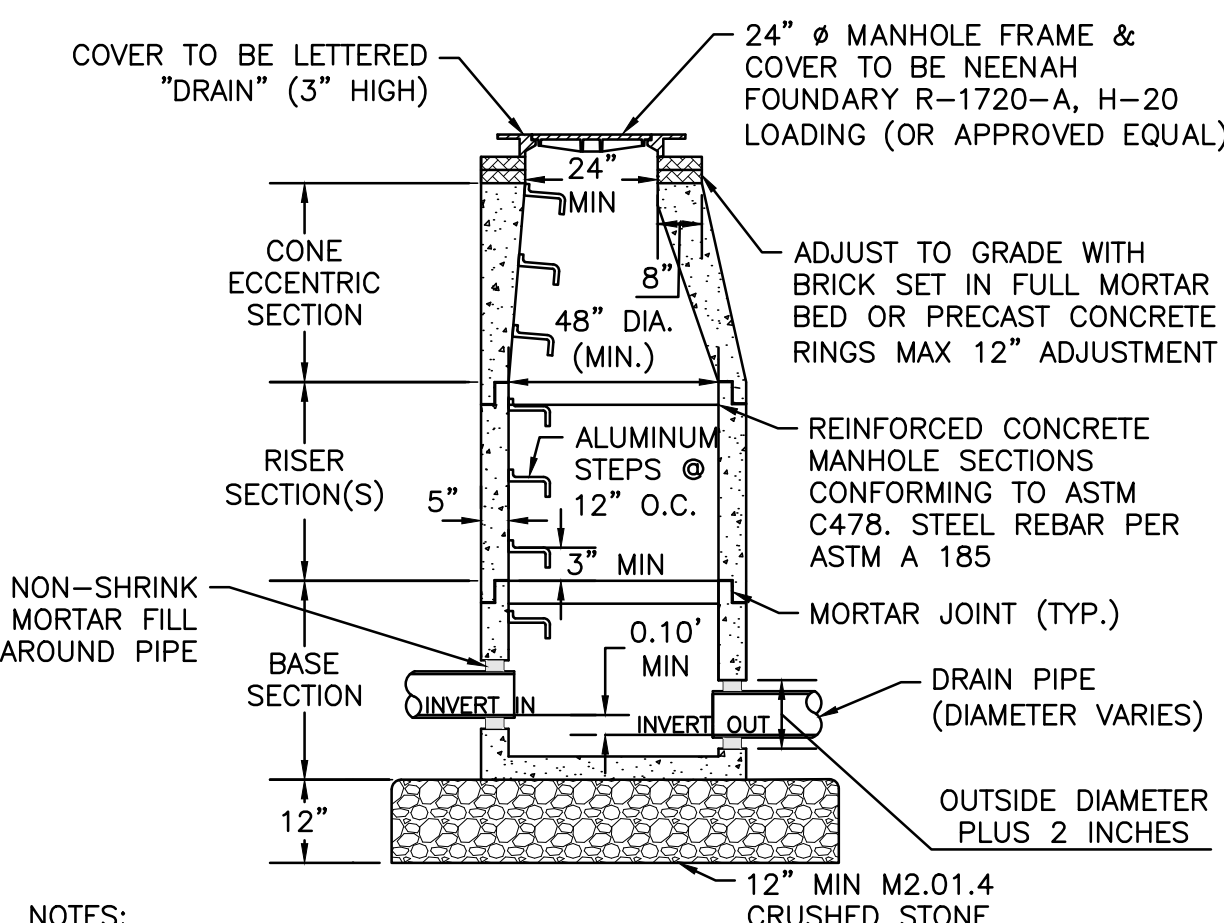
	FILTER FABRIC USE	
	SOIL TYPE	
	SILT OR CLAY	GRANULAR SOIL
ABOVE GROUND WATER	FILTER FABRIC NOT REQUIRED	FILTER FABRIC NOT REQUIRED
BELOW GROUND WATER	FILTER FABRIC REQUIRED	FILTER FABRIC NOT REQUIRED



UTILITY TRENCH
NOT TO SCALE

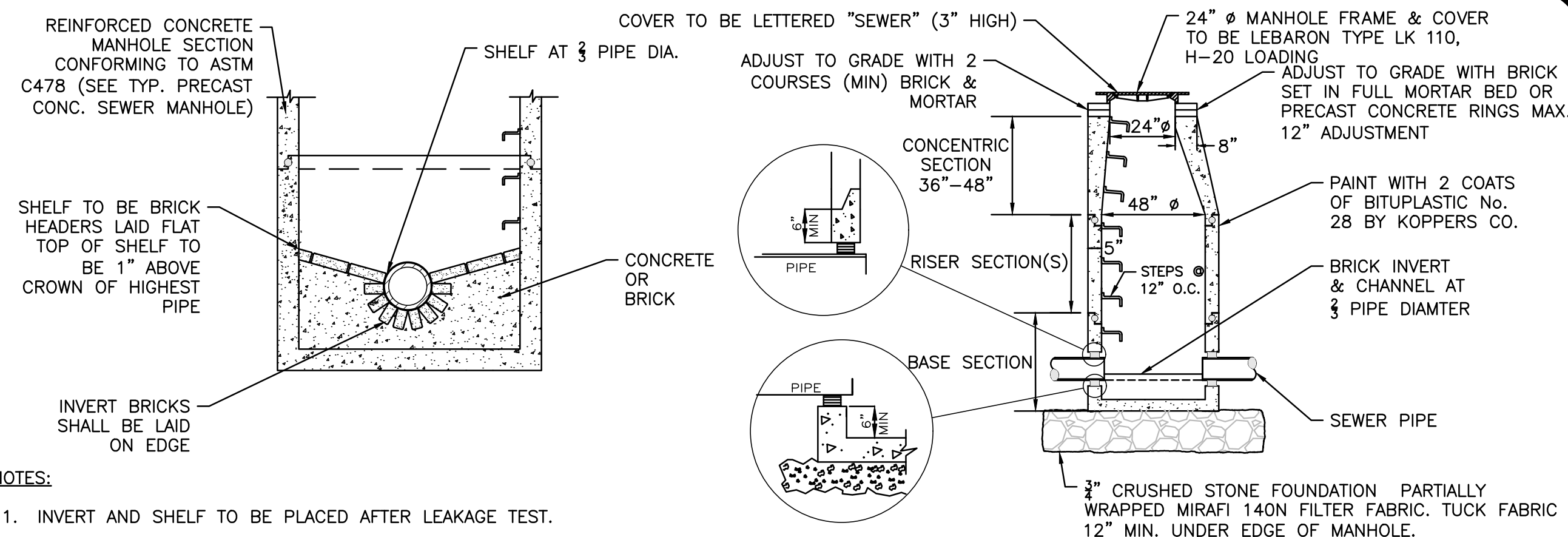


DEEP SUMP CATCH BASIN
NOT TO SCALE



- NOTES:**
1. THE MANHOLE, INCLUDING ALL COMPONENT PARTS, SHALL HAVE ADEQUATE SPACE AND STRENGTH QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE. SPACE REQUIREMENT AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND (H-20 LOADING) WITHOUT FAILURE.

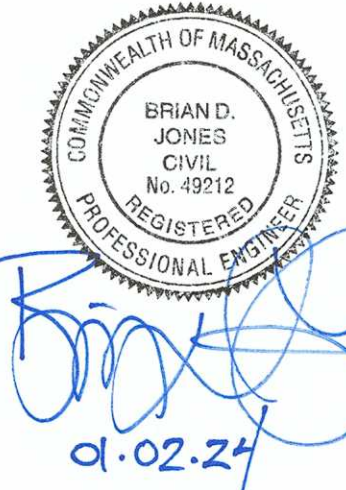
DRAIN MANHOLE
NOT TO SCALE



NOTES:

1. INVERT AND SHELF TO BE PLACED AFTER LEAKAGE TEST.
2. MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF CEMENT CONCRETE OR BRICK IN MORTAR.

PRECAST CONCRETE SEWER MANHOLE
NOT TO SCALE



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
3	01-02-24	REVISION 3
2	06-27-23	REVISION 2
1	05-26-23	REVISION 1

APPLICANT/OWNER:

SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:
TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO. 3115-01A **DATE:** 03/31/2023

SCALE: AS SHOWN **DWG. NAME:** C-3115-01A

DESIGNED BY: JRG **CHECKED BY:** BDJ

PREPARED BY:

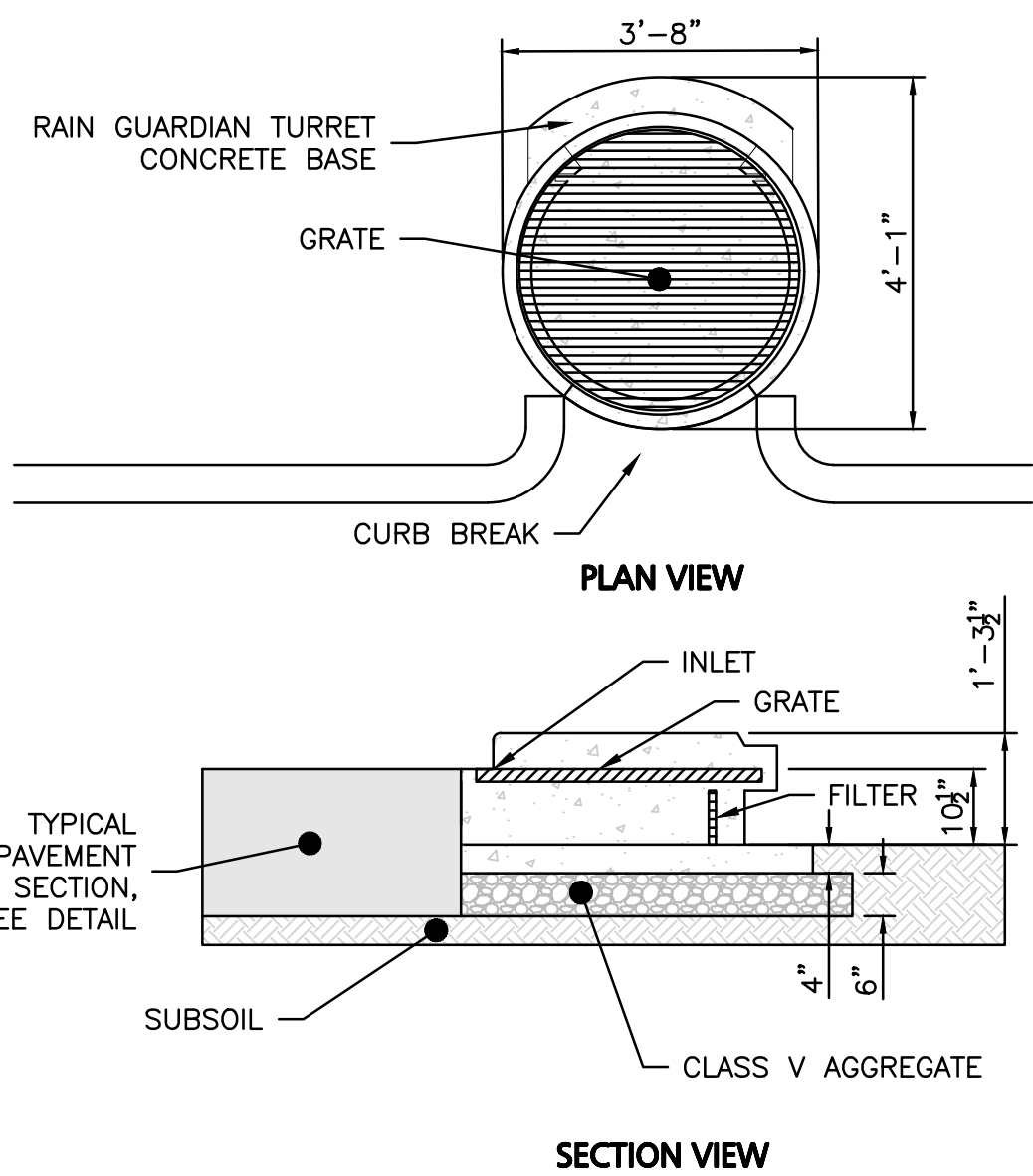
ALLEN & MAJOR ASSOCIATES, INC.
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WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

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DRAWING TITLE: DETAILS **SHEET No.** C-503

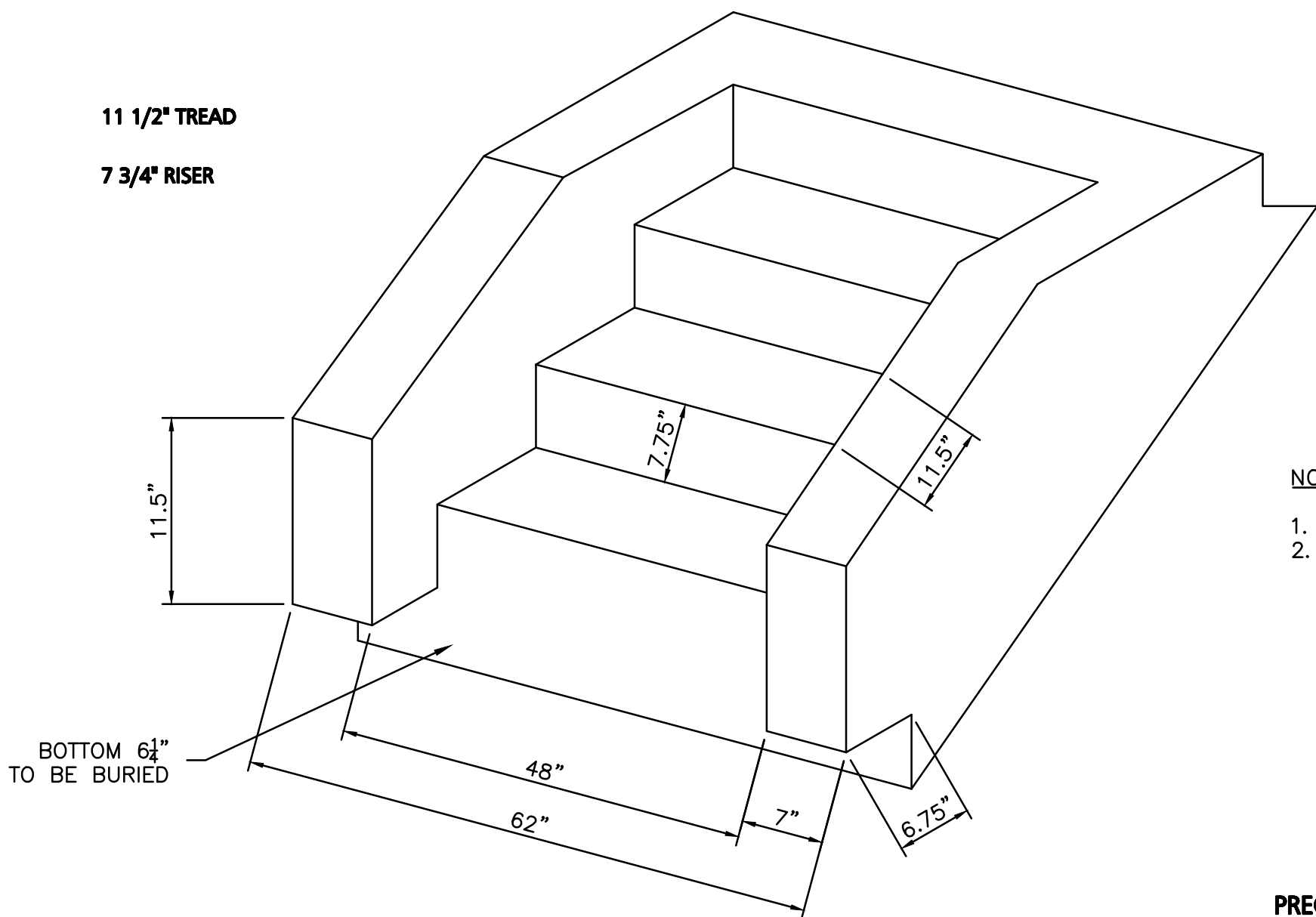
R:\PROJECTS\3115-01A\CIVIL\DRAWINGS\CURRENT\C-3115-01A_DETAILS.DWG



- NOTES:
1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURE (1,030 LBS).
 2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. CONCRETE AIR ENTRAINED (4% TO 8% BY VOLUME).
 3. MANUFACTURED AND DESIGNED TO ASTM C858.
 4. THREE-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK.
 5. SOIL UNDER BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.
 6. TWO-PIECE LIGHT DUTY GALVANIZED GRATE (34.5 LBS/PIECE) FOR 541 LB CONCENTRATED LOAD OR 309 LB/SQ FT UNIFORM LOAD.
 7. TWO-PIECE HEAVY DUTY GALVANIZED GRATE (77.5 LBS/PIECE) FOR 2,456 LB CONCENTRATED LOAD OR 1,404 LB/SQ FT UNIFORM LOAD.
 8. USE EXPANSION JOINT MATERIAL BETWEEN TURRET AND BIORETENTION INLET.

RAIN GUARDIAN TURRET - TYPICAL DETAIL
NOT TO SCALE

1



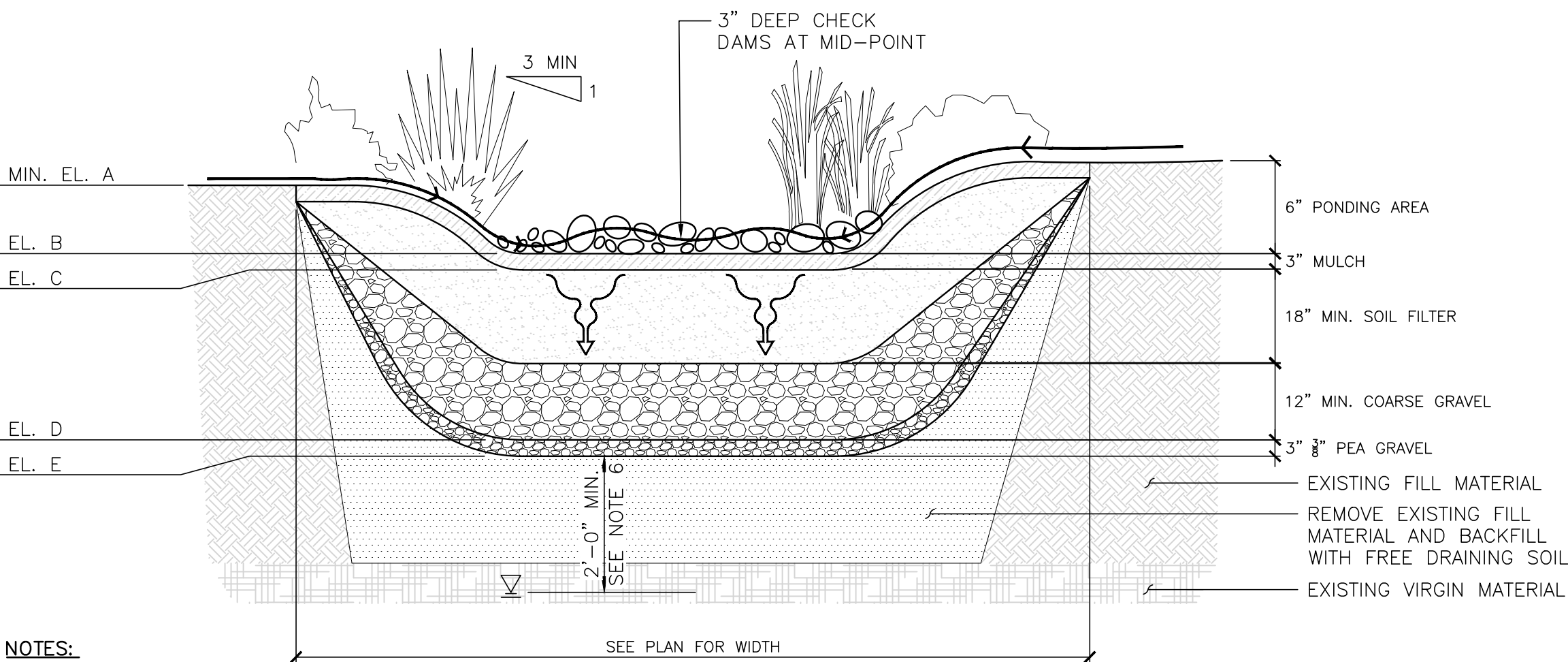
- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. REINFORCEMENT: #3 REBAR

PRECAST CONCRETE BANKING STEPS
NOT TO SCALE

2

BIORETENTION ELEVATION TABLE		
ELEV. ID	BIORETENTION #1	BIORETENTION #2
A	137.00	136.00
B	136.50	135.50
C	136.25	135.25
D	133.75	132.75
E	133.50	132.50

BIORETENTION FILTER MEDIA			
COMPONENT MATERIAL	PERCENT OF MIXTURE BY VOLUME	GRADATION OF MATERIAL	
		SIEVE NO.	PERCENT BY WEIGHT PASSING STANDARD SIEVE
FILTER MEDIA OPTION A			
ASTM C-22 CONCRETE SAND	50 TO 55		
LOAMY SAND TOPSOIL, WITH FINES AS INDICATED	20 TO 30	200	15 TO 25
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH, WITH FINES AS INDICATED	20 TO 30	200	<5
FILTER MEDIA OPTION B			
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH, WITH FINES AS INDICATED	20 TO 30	200	<5
LOAMY COARSE SAND	70 TO 80	10	85 TO 100
		20	70 TO 100
		60	15 TO 40
		200	8 TO 15



- NOTES:
1. SEE LANDSCAPE PLAN FOR PLANT TYPES.
 2. GRADING, AND PLANTING OF BIORETENTION SHALL BE COMPLETED IN EARLY PHASES OF CONSTRUCTION. PLANTS AND SEED ON SLOPES AND BOTTOM OF BASIN MUST BE ESTABLISHED PRIOR TO CONNECTING STORM DRAINAGE SYSTEM OUTLETS TO BIORETENTION AREA. PLANTS AND SEED MIX SHALL HAVE A MINIMUM OF 6 MONTHS GROWING, BE ESTABLISHED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONNECTING STORM DRAINAGE SYSTEM OUTLETS TO BIORETENTION AREA.
 3. EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN, SHALL BE IN PLACE PRIOR TO ANY REGRADING ACTIVITY.
 4. EXCAVATION, FILLING AND PLANTING SHALL OCCUR IN THE DRY. WATER LEVELS MUST BE LOWERED IN THE BIORETENTION AREA BY RELYING ON DRY SEASON AND OR DRY SPELLS; OR MAY BE ACCOMPLISHED THROUGH THE USE OF DEWATERING METHODS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ANY DEWATERING METHODS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
 5. WATER FROM ANY DEWATERING OPERATION SHALL BE TREATED TO REDUCE TOTAL SUSPENDED SOLIDS AND BE IN COMPLIANCE WITH STATE AND FEDERAL STANDARDS.
 6. A MINIMUM OF 2-FOOT SEPARATION BETWEEN THE BOTTOM OF THE PRACTICE AND SEASONAL HIGH WATER TABLE SHALL BE PROVIDED, VERIFY IN FIELD.

BIORETENTION SYSTEM DETAIL
NOT TO SCALE

3

NOT USED
NOT TO SCALE

4

NOT USED
NOT TO SCALE

5

NOT USED
NOT TO SCALE

6

NOT USED
NOT TO SCALE

7



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
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2	06-27-23	REVISION 2
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SCALE:	AS SHOWN	DWG. NAME:	C-3115-01A
DESIGNED BY:	JRG	CHECKED BY:	BDJ

PREPARED BY:

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environmental consulting • landscape architecture
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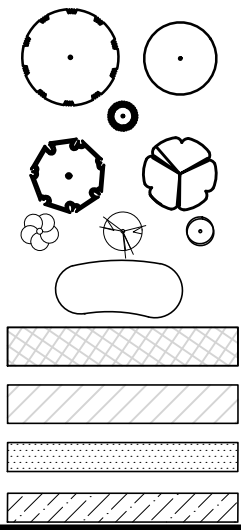
DRAWING TITLE:	SHEET No.
DETAILS	C-504

CITY OF METHUEN ZONING SUMMARY - LANDSCAPE

REGULATION	ITEM	REQUIRED / ALLOWED	PROPOSED
SECTION 6.2.E(4)	A FIFTEEN-FOOT LANDSCAPED STRIP SHALL BE PROVIDED ADJACENT TO THE STREET RIGHT-OF-WAY LINE WHEN A FRONT YARD IS USED FOR PARKING IN BUSINESS AND INDUSTRIAL DISTRICTS.	FIFTEEN-FOOT LANDSCAPED STRIP.	>42' PROVIDED

LEGEND

DECIDUOUS TREE
EVERGREEN TREE
FLOWERING TREE
SHRUBS
MULCH BED
PERENNIALS
NE WILDFLOWER SEED MIX
STONE EDGE
SOD ON SLOPES



NOTES:

- EXISTING CONDITIONS WERE COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC. AS WELL AS AVAILABLE RECORD PLANS OBTAINED FROM THE CITY OF METHUEN, MA AND OTHER SOURCES.
- VERTICAL DATUM IS NAVD83. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
- THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED
- SEE SHEET L-501 FOR NOTES AND DETAILS

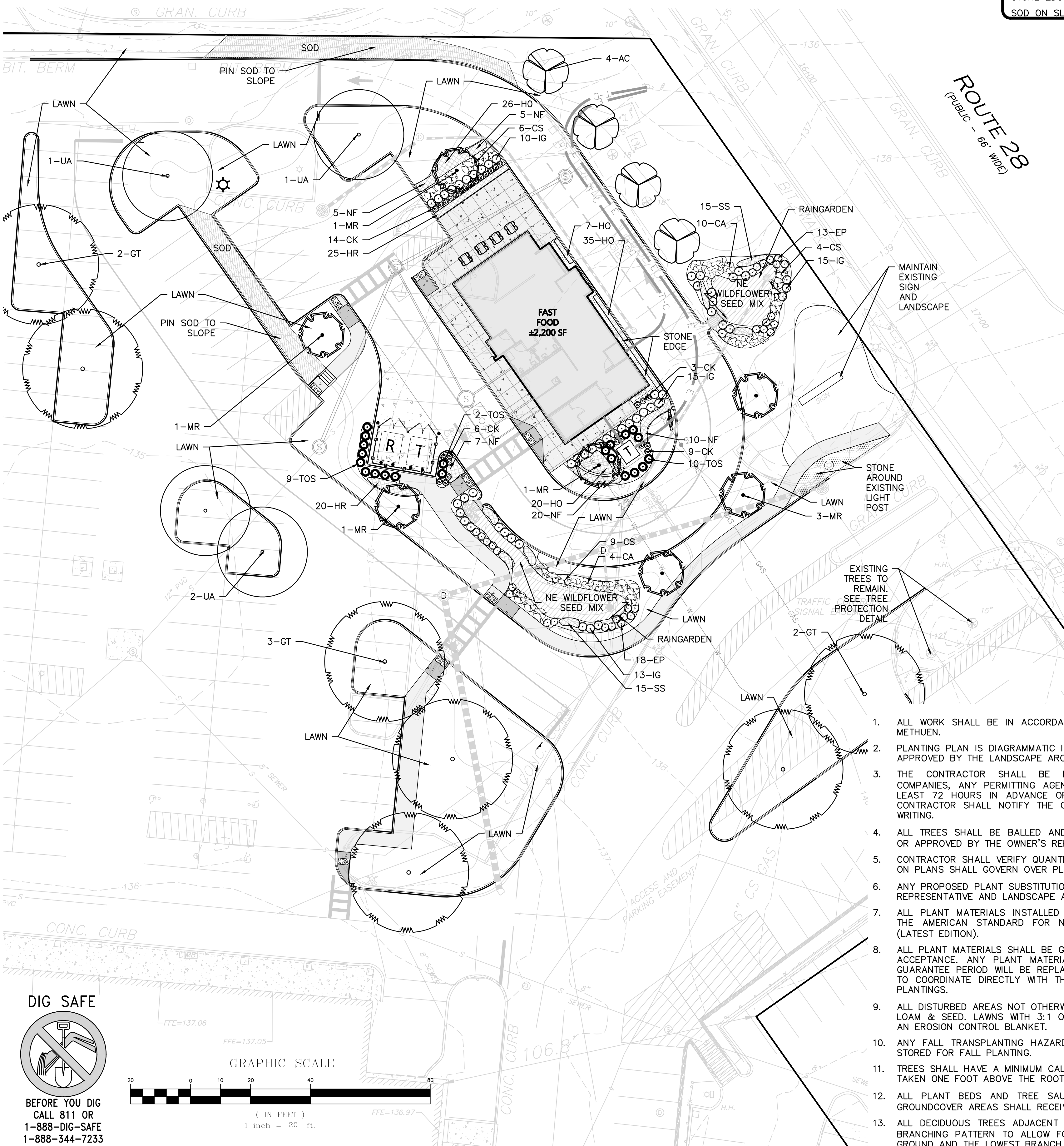


PLANTING SCHEDULE - TREES, SHRUBS, GROUNDCOVERS & PERENNIALS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS SHADE AND FLOWERING TREES						
* GT	7	GLEDITSIA TRIACANTHOS 'SKYLINE'	SKYLINE HONEY LOCUST	3" CAL.	AS SHOWN	B&B
* UA	4	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	3" CAL.	AS SHOWN	B&B
ORNAMENTAL TREES						
* AC	4	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	7-8' HT.	AS SHOWN	B&B- MULTISTEM
MR	7	MALUS 'ROYAL RAINDROPS'	ROYAL RAINDROPS CRABAPPLE	2.5-3" CAL.	AS SHOWN	B&B
EVERGREEN TREES						
* TOS	21	THUJA OCCIDENTALIS 'SMARAGD'	AMERICAN ARBORVITAE	5-6' HT.	AS SHOWN	B&B
SHRUBS						
* CA	14	CLETHRA ALNIFOLIA	SUMMERSWEET	#5	AS SHOWN	POT
* CS	19	CORNUS SERICEA 'FARROW'	ARCTIC FIRE DOGWOOD	#5	AS SHOWN	POT
* IG	53	ILEX GLABRA 'DENSE'	INKBERRY	#5	AS SHOWN	POT
PERENNIALS/GRASSES						
CK	32	CALAMAGROSTIS 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	#2	AS SHOWN	STAGGERED
* EP	31	EUTROCHUM PURPUREUM 'LITTLE JOE'	SWEET JOE PYE WEED	#2	AS SHOWN	STAGGERED
HO	62	HOSTA 'ISLAND BREEZE'	ISLAND BREEZE HOSTA	#1	18" O.C.	STAGGERED
HR	45	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	#1	18" O.C.	STAGGERED
NF	47	NEPETA X FAASSENII 'WALKER'S LOW'	WALKER'S LOW CATMINT	#2	24" O.C.	STAGGERED
* SS	30	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#2	18" O.C.	STAGGERED
SEED MIX						
SEED	TBD	NE WILDFLOWER MIX	RAIN GARDEN	TBD	AS SHOWN	SEE NOTES
LAWN	TBD	LOAM AND SEED	DISTURBED AREAS	TBD	AS SHOWN	SEE NOTES
* DENOTES NATIVE SPECIES OR NATIVE CULTIVAR						
NATIVE WILDFLOWER SEED MIX FROM AMERICAN MEADOWS. WWW.AMERICANMEADOWS.COM SEE DETAIL						

LANDSCAPE NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF METHUEN.
- PLANTING PLAN IS DIAGRAMMATIC IN NATURE. FINAL PLACEMENT OF PLANTS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES, ANY PERMITTING AGENCIES, AND "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS IN ADVANCE OF ANY WORK THAT WILL REQUIRE EXCAVATION. CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY CONFLICTS IN WRITING.
- ALL TREES SHALL BE BALLED & BURLAPPED (B&B) UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON PLANT LIST. QUANTITIES SHOWN ON PLANS SHALL GOVERN OVER PLANT LIST.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS INSTALLED SHALL MEET THE GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY AMERICANHORT (LATEST EDITION).
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE. ANY PLANT MATERIALS WHICH DIE WITHIN THE ONE YEAR PLANT GUARANTEE PERIOD WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR. OWNERS TO COORDINATE DIRECTLY WITH THE LANDSCAPE CONTRACTOR FOR REPLACEMENT PLANTINGS.
- ALL DISTURBED AREAS NOT OTHERWISE NOTED SHALL RECEIVE 6" OF SUITABLE LOAM & SEED. LAWNS WITH 3:1 OR GREATER SLOPES SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET.
- ANY FALL TRANSPLANTING HAZARD PLANTS SHALL BE DUG IN THE SPRING AND STORED FOR FALL PLANTING.
- TREES SHALL HAVE A MINIMUM CALIPER AS INDICATED ON THE PLANTING SCHEDULE TAKEN ONE FOOT ABOVE THE ROOT CROWN.
- ALL PLANT BEDS AND TREE SAUCERS TO RECEIVE 3" OF PINE BARK MULCH. GROUNDCOVER AREAS SHALL RECEIVE 1" OF PINE BARK MULCH.
- ALL DECIDUOUS TREES ADJACENT TO WALKWAYS AND ROADWAYS SHALL HAVE A BRANCHING PATTERN TO ALLOW FOR A MIN. OF 7' OF CLEARANCE BETWEEN THE GROUND AND THE LOWEST BRANCH.



LOAM AND SEED NOTES:

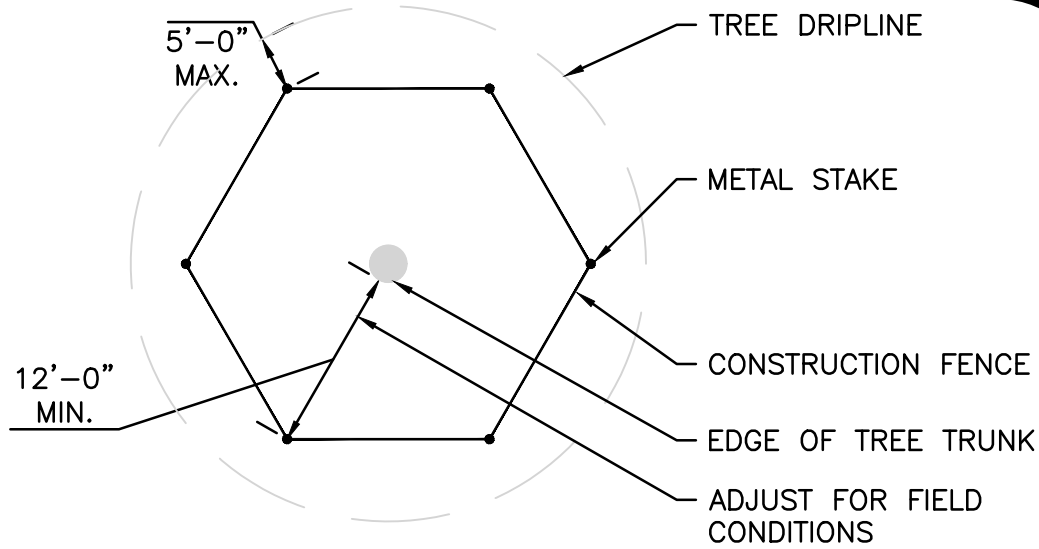
CONTRACTOR SHALL SEED ALL DISTURBED AREAS NOT NOTED TO RECEIVE OTHER MATERIALS, AND AT AREAS SHOWN ON THE PLAN PER SPECIFICATIONS BELOW

SCIENTIFIC NAME	COMMON NAME	PROPORTION BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
FESTUCA RUBRA "RUBRA"	CREeping RED FESCUE	37%	95%	90%
PAO PRAENTENSIS "BARON"	BARON KENTUCKY BLUEGRASS	40%	85%	90%
LOLIUM PERENNE "PALMER"	PALMER PERENNIAL RYEGRASS	15%	95%	90%
FESTUCA RUBRA COMMUTATA WILMA	WILMA CHEWINGS	8%	95%	80%

- SEED TO BE SPREAD AT MINIMUM RATE OF 5 LBS. PER 1000 SQ. FT.
- SEEDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RESEEDING OF BARE SPOTS. IF UNABLE TO SEED WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER, HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE). CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SEEDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING.
- COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 25 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. LIME TO BE SPREAD AT THE RATE OF 100 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FERTILIZER CONTAINING AT LEAST 50% OF THE NITROGEN OF WHICH IS DERIVED FROM NATURAL ORGANIZE SOURCES OF UREAFORM. IT SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT: NITROGEN (N) 10%, PHOSPHORUS (P) 6%, POTASH (K) 4%. LIME SHALL BE AN APPROVED AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT 50% WILL PASS A 100 MESH SIEVE AND 90% WILL PASS THROUGH A 20 MESH SIEVE.
- LAWN AREAS TO BE SEEDED BY SOWING EVENLY WITH AN APPROVED MECHANICAL SEEDER AT THE RATE OF TEN POUNDS PER 1000 SQUARE FEET.
- CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RESEEDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED.

LOAM AND SOD NOTES:

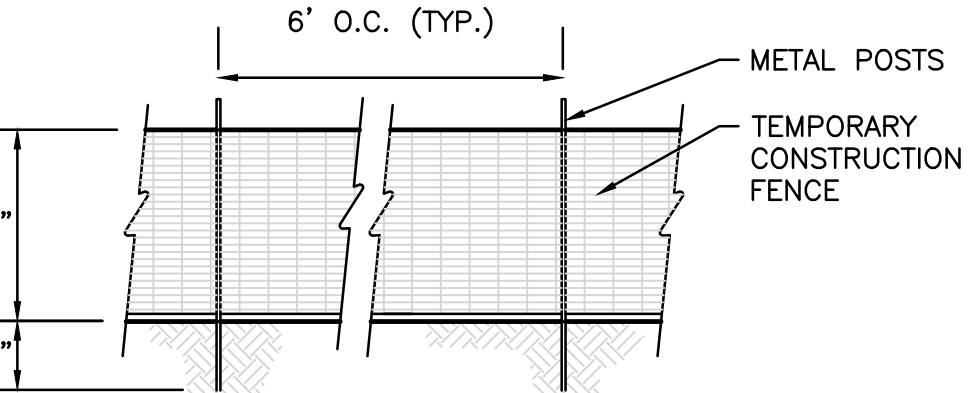
- CONTRACTOR SHALL SOD AREAS NOTED ON THE PLANS OR AT ANY AREA DISTURBED BY CONSTRUCTION NOT NOTED TO BE ANOTHER MATERIAL.
- SOD IS TO BE A BLEND OF FOUR TO FIVE CURRENT AND IMPROVED HYBRID BLUEGRASS AND FESCUE MIXES APPROPRIATE FOR BOTH SEED-SHADED AND AREAS OF SUN. HYBRIDS MAY INCLUDE: BLACKSTONE KENTUCKY BLUEGRASS, AWARD KENTUCKY BLUEGRASS, CHALLENGER KENTUCKY BLUEGRASS, BLACKBURG II KENTUCKY BLUEGRASS OR COMPARABLE AND EQUAL BLUEGRASS HYBRIDS.
- SOD SHALL BE HIGH QUALITY NURSERY GROWN ON CULTIVATED MINERAL AGRICULTURAL SOILS. SOD SHALL BE MOIST AND MACHINE CUT AT A UNIFORM SOIL THICKNESS OF AT LEAST 5/8" AT TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL INCLUDE TOP GROWTH AND THATCH. SOD SHALL BE FREE OF DISEASES, WEEDS, BARE SPOTS, OR INSECTS.
- SODDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RE-SODDING OF BARE SPOTS. IF UNABLE TO SOD WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER, HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLEXITERRA HP-FGM" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE). CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SODDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING.
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- CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RE-SODDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED.
- IF PROPOSED IRRIGATION SYSTEM IS NOT OPERATIONAL, LANDSCAPE CONTRACTOR RESPONSIBLE TO WATER WITH TEMPORARY IRRIGATION OR WATER TRUCKS UNTIL IRRIGATION SYSTEM IS OPERATIONAL.



NOTE:

- CONSTRUCTION FENCE TO BE "VISUAL BARRIER FENCE" AS MANUFACTURED BY TENAX OR APPROVED EQUAL.

IF GROUPS OF TREES ARE TO BE PROTECTED, EXTEND FENCE AROUND PERIMETER TO CONFORM TO MINIMUM DIMENSIONS FOR TREE TRUNKS AND DRIPLINE.



EXISTING TREE PROTECTION
NOT TO SCALE

3

NORTHEAST NATIVE WILDFLOWER SEED MIX:

NORTHEAST NATIVE WILDFLOWER SEED MIX

(BY AMERICAN MEADOWS. (WWW.AMERICANMEADOWS.COM)

APPLICATION RATE: 1000 SQ FT/LB

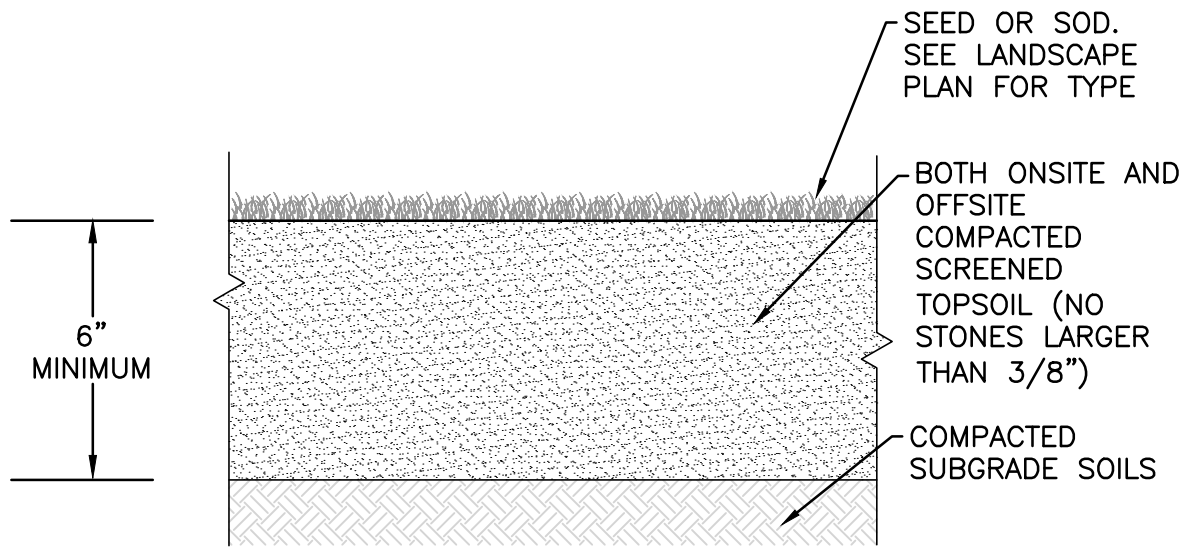
Restore native habitat to the landscape by planting the Native Northeast Wildflower Mix. Containing 18 native wildflowers found throughout New England and the mid-Atlantic, including Spotted Joe Pye Weed, Butterfly Weed, Red Columbine and Wild Lupine, this colorful mix is incredibly easy to care for. Best for planting in: CT, DE, MD, MA, ME, NH, NJ, NY, PA, RI, VT, WV, QC and the Eastern Provinces. All of the seed we offer at American Meadows is non-GMO, neonicotinoid-free and guaranteed to grow.

Includes the following species - Lance-leaf Coreopsis, Butterfly Weed, Swamp Milkweed, Eastern Red Columbine, Blazing Star or Gayfeather, Spotted Joe Pyeweed, Indian Blanket, Ox-Eye Sunflower, Black-eyed Susan, Evening Primrose, Sweet Black Eyed Susan, Brown-eyed Susan, Wild Lupine, Wild Bergamot, Blanket Flower, Partridge Pea, Beardtongue, New England Aster, Rigid Goldenrod

Hand packed with 100% pure, fresh wildflower seed (non-GMO & neonicotinoid/chemical free)

Mix of 18 wildflowers including 3 Annuals, 1 Biennial and 14 Perennials with long lasting bloom

Coverage Rate: 1 lb covers 1,000 - 2,000 sq ft or 30 lbs per acre



TEXTURE CLASS	% OF TOTAL WEIGHT
SAND	45% - 65%
SILT	15% - 35%
CLAY	5% - 20%

SIEVE	% PASSING
3/8"	100
NO. 4	85-100
NO. 40	60-85
NO. 100	38-60
NO. 200	28-40

NOTES:

- TOP OF LOAM (TOPSOIL) IS FINISH GRADE.

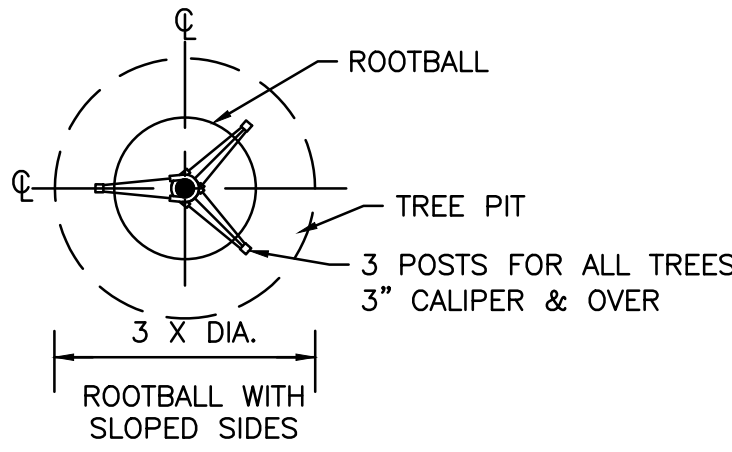
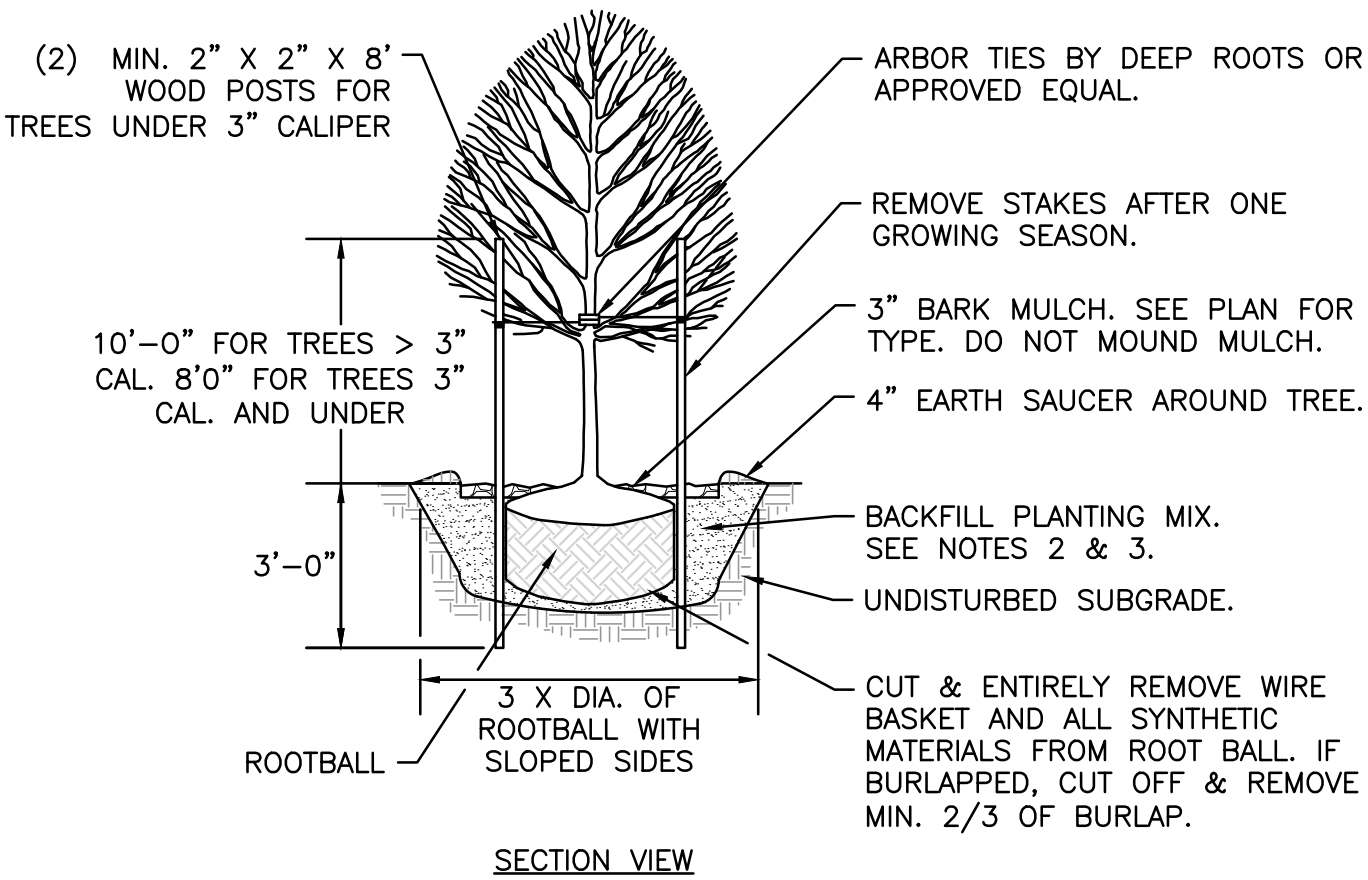
2. ALL TOPSOIL (BOTH ONSITE AND OFFSITE SOURCES) SHALL BE COMPOSED OF A NATURAL, FERTILE, FRIABLE SOIL TYPICAL OF CULTIVATED TOPSOILS OF THE LOCALITY. SOIL SHALL BE SUITABLE FOR THE GERMINATION OF SEEDS AND SUPPORT OF VEGETATIVE GROWTH, WITH ADDITIVES, IF REQUIRED, TO ACHIEVE PARTICLE DISTRIBUTION AND ORGANIC CONTENT BELOW. TOPSOIL SHALL BE TAKEN FROM A WELL-DRAINED, ARIABLE SITE, FREE OF SUBSOIL, LARGE STONES, EARTH CLOUDS, STICKS, TRASH, STUMPS, CLAY LUMPS, ROOTS, OTHER OBJECTIONABLE, EXTRANEOUS MATTER OR DEBRIS NOR CONTAIN TOXIC SUBSTANCES.

3. THE CONTRACTOR SHALL PROVIDE THE OWNER / LANDSCAPE ARCHITECT WITH TOPSOIL TEST RESULTS (RECOMMEND UMASS AMHERST SOIL TESTING LAB) FOR APPROVAL PRIOR TO OBTAINING AND PLACING THE SOIL. IF THE PLANTING SOIL (BOTH ONSITE AND OFFSITE SOURCES) DOES NOT FALL WITHIN THE REQUIRED SIEVE ANALYSIS, TEXTURAL CLASS, ORGANIC CONTENT, OR PH RANGE, IT SHALL BE ADJUSTED TO MEET THE SPECIFICATIONS THROUGH THE ADDITION OF SAND, COMPOST, LIMESTONE, OR ALUMINUM SULFATE TO BRING IT WITHIN THE SPECIFIED LIMITS.

4. TOPSOIL SHALL HAVE A PH VALUE BETWEEN 5.5 AND 6.5. TOPSOIL SHALL CONTAIN BETWEEN 4% AND 8% ORGANIC MATTER OF TOTAL DRY WEIGHT AND SHALL CONFORM TO THE FOLLOWING GRADATION AND TEXTURE CLASS ABOVE.

TOPSOIL FOR LAWN, TREES, SHRUBS, & PERENNIALS
NOT TO SCALE

4

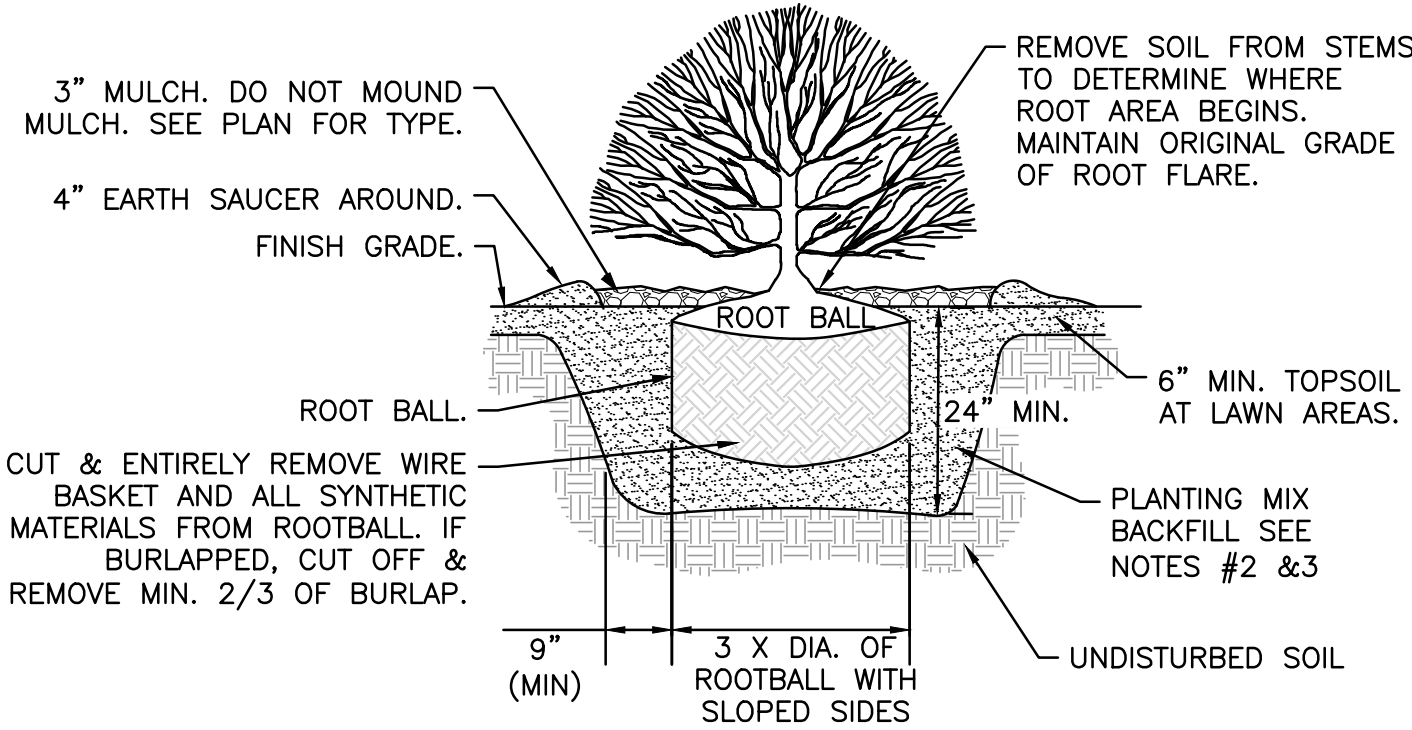


DECIDUOUS TREE
NOT TO SCALE

1

NOTES:

- ALL TREES SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING. ROOT FLARE SHALL BE 2" ABOVE FINISH GRADE. REMOVE SOIL FROM TRUNK FLARE OF TREE TO DETERMINE ACTUAL ROOTBALL AREA.
- BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% BLENDED AND GROUND COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH OR TOXIC MATERIALS) 20% PEAT MOSS, 10% SAND.
- ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.

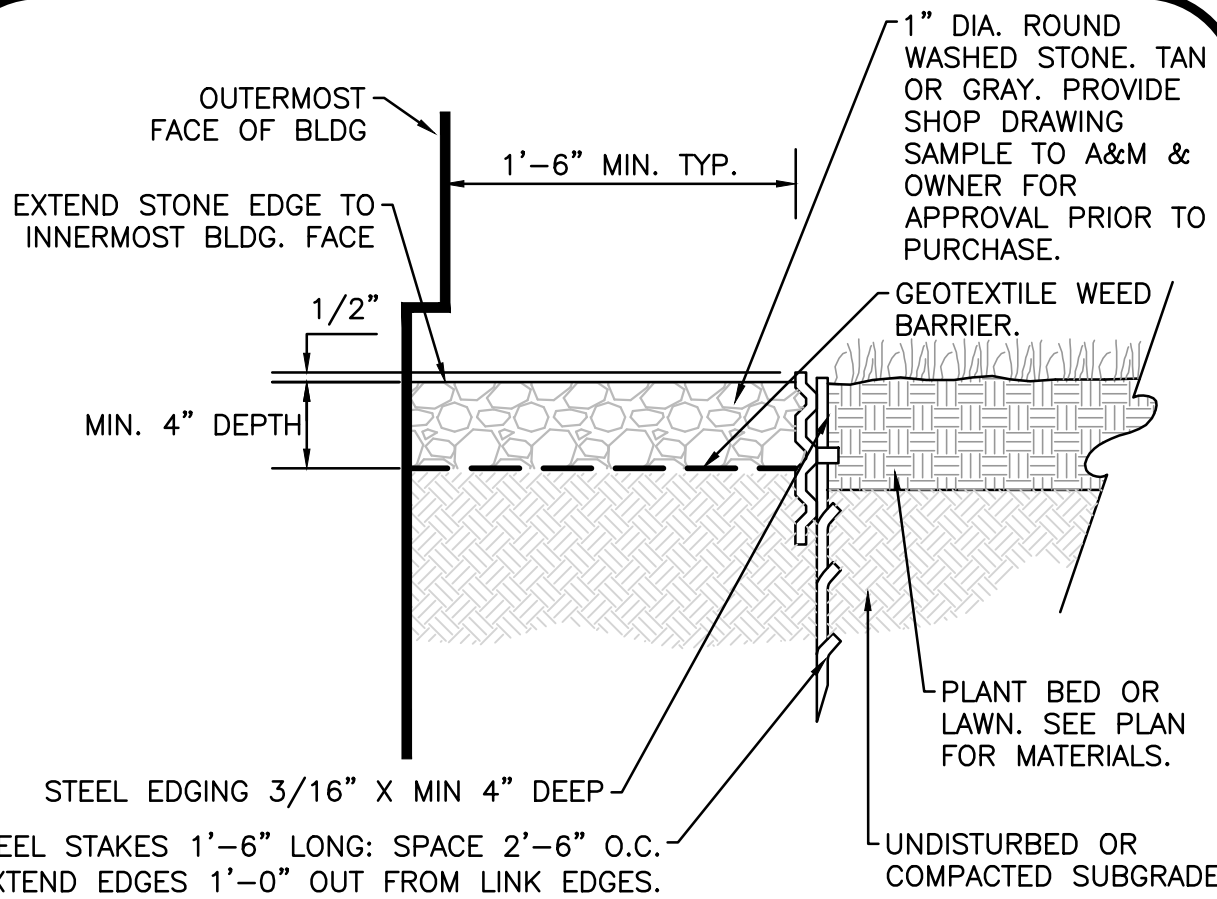


NOTES:

- ALL SHRUBS ROOT FLARE SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING.
- BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
- ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED. WATER THOROUGHLY AT COMPLETION.
- SHRUB BEDS TO HAVE 24" MIN. OF CONTINUOUS PLANTING SOIL.

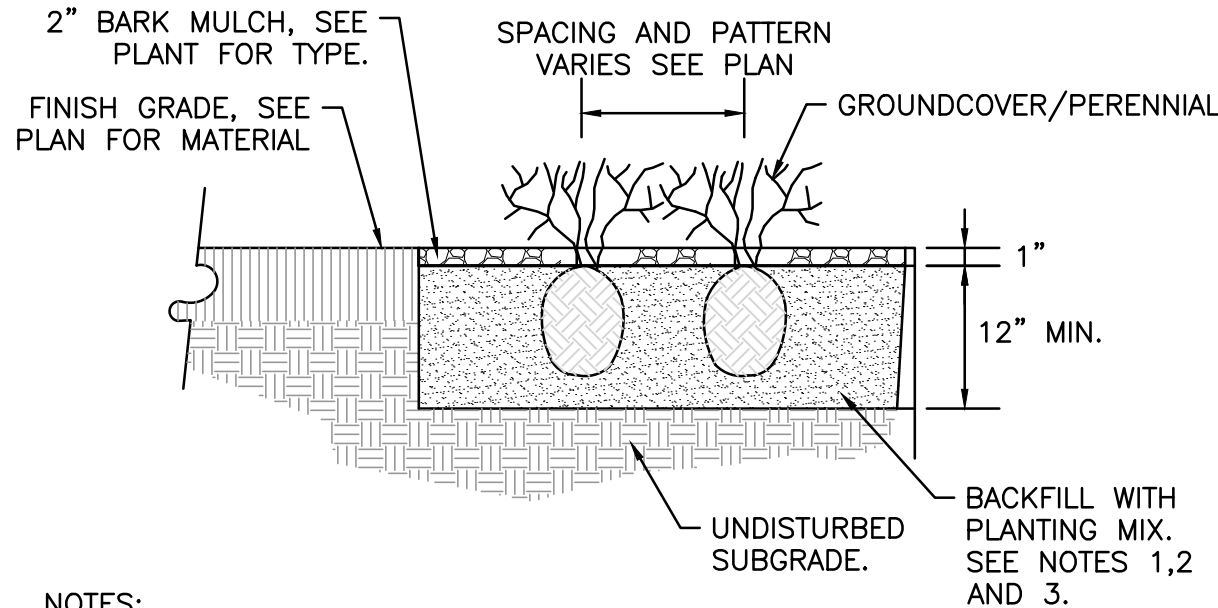
SHRUB
NOT TO SCALE

2



STONE EDGE
NOT TO SCALE

5



NOTES:

- ALL GROUND COVER/PERENNIALS SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING. ROOT FLARE SHALL BE 2" ABOVE FINISH GRADE. REMOVE SOIL FROM STEM OF GROUND COVER/ PERENNIAL TO DETERMINE ACTUAL ROOTBALL AREA.
- BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% BLENDED AND GROUND COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH OR TOXIC MATERIALS) 20% PEAT MOSS, 10% SAND.
- ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.

GROUND COVER/PERENNIAL PLANTING
NOT TO SCALE

6



PROFESSIONAL LANDSCAPE ARCHITECT FOR
ALLEN & MAJOR ASSOCIATES, INC.

2	06-27-23	REVISION 2
1	05-26-23	REVISION 1
REV	DATE	DESCRIPTION

APPLICANT/OWNER:

SHRI SWAMINE LLC
PO BOX 2022
DANVERS, MA 01923

PROJECT:

TACO JOHN'S
436 BROADWAY
THE VILLAGE MALL
METHUEN, MA

PROJECT NO.	3115-01A	DATE:	03/31/2023
SCALE:	AS SHOWN	DWG. NAME:	L-3115-01A
DESIGNED BY:	JBT/BCD	CHECKED BY:	BDJ

PREPARED BY:

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environmental consulting • landscape architecture
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