MIXED USE BUILDING "RIDGE MARKETPLACE"

TAX MAP 216, LOT 11 120 MARKETPLACE BLVD, ROCHESTER, NH

PERMIT APPROVAL # NHOES AOT AOT-0825 and AOT-0825A NHOES WASTEWATER CONNECTION D2014-0901 NHOOT DRIVEWAY 06-339-608

FOR MORE INFORMATION ABOUT THIS SITE PLAN CONTA WATNE MORRILL PHONE: (603) 772-4746 EMAI: WMORRILL & WONESANDBEACH.COM

SHEET INDEX

CS COVER SHEET

C1 EXISTING CONDITIONS PLAN

C2 SITE PLAN

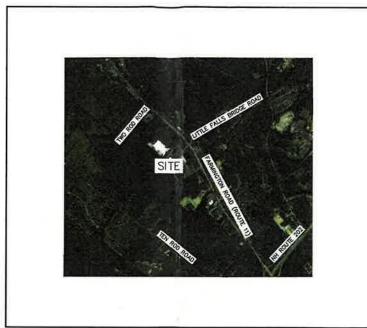
C3 GRADING AND DRAINAGE PLAN

C4 UTILITY PLAN

L1 LANDSCAPE AND LIGHTING PLAN

D1-D3 DETAIL SHEETS

E1 EROSION AND SEDIMENT CONTROL DETAILS



LOCUS MAP SCALE 1" = 2000

OWNER OF RECORD
WATERSTONE ROCHESTER, LLC
% WATERSTONE RETAIL DEVELOPEMNT
117 KENDRICK ST. STE 325
NEEDHAM, MA 02494-2724
(781) 559-3301

CONTACT: SCOTT HALEY

WATER AND SEWER
ROCHESTER PUBLIC WORKS DEPT.
45 OLD DOVER ROAD
ROCHESTER, NH 03867
(603) 332-4096

ELECTRIC EVERSOURCE 740 N COMMERCIAL ST PO BOX 330 MANCHESTER, NH 03105-0330 (800) 662-7764

Owner of Record:

TYPE OF PERMIT

MAIL CODE 4203W.

1200 PENNSYLVANIA AVENUE, NW WASHINGTON, DC 20480

JONES & BEACH ENGINEERS, INC.

USEPA NPDES PHASE II CONSTRUCTION GENERAL PERMIT, NOTICE OF INTENT (NOI), AND NOTICE OF TERMINATION

(NOT) TO BE FILED IN ACCORDANCE WITH FEDERAL AND LOCAL REGULATIONS PRIOR TO AND FOLLOWING CONSTRUCTION

EPA STORMWATER NOTICE PROCESSING CENTER

TELEPHONE
CONSOLIDATED COMMUNICATIONS
100 TRI CITY ROAD
SOMERWORTH, NH 03878
ATTN:DAVE KESTNER
(603) 743-1114

CABLE TV COMCAST COMMUNICATION CORPORATION 334-B CALEF HIGHWAY EPPING, NH 03042-2325 (603) 679-5695

STATUS

ROCHESTER SITE PLAN APPROVAL-CITY OF ROCHESTER PLANNING BOARD 31 WAKEFIELD STREET ROCHESTER, NEW HAMPSHIRE 03867 (603) 335-7500 RESPONSIBLE CONSULTANT:

JONES & BEACH ENGINEERS, INC.

TYPE OF PERMIT

SUBMITTED: 03/21/22

PERMIT NO. 216-11-GRD-22

DATED: 05/16/22

"THIS PLAN SET IS FOR THE PAD SITE ON PHASE I ADJACENT TO STARBUCKS. SITE PLAN APPROVAL FROM THE CITY OF ROCHESTER WAS FOR A ±15,000 SF RETAIL IN THIS LOCATION OF THE RIDGE MARKETPLACE.



PROJECT PARCE CITY OF ROCHESTER TAX MAP 216, LOT 11

APPLICANT/OWNER
WATERSTONE ROCHESTER, LLC
WATERSTONE RETAIL DEVELOPMENT
117 KENDRICK ST. STE 325
NEEDHAM, MA 02494-2724
BK 4238, PG 739

TOTAL LOT AREA 3,183,365± SQ. FT.

APPROVED - ROCHESTER, NH PLANNING BOARD

Series Planer

Constitions Approved: 5/16/22 Final Approval: 1/30/23

DATE:

Design: BWG Draft: GDR Date: 11/15/2021
Checked: WGM Scale: AS NOTED Project No.:21173
Drawing Name: 21173-PLAN.chwg
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN
PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE).
ANY ALTERATIONS. AUTHORIZED OR OTHERWISE: SHALL BE

THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



3	12/20/22	REVISED PER CONDITIONS OF APPROVAL	EMP
2	04/25/22	REVISED PER TRG COMMENTS	EMP
1	04/11/22	REVISED PER TRG COMMENTS	EMP
0	03/21/22	ISSUED FOR REVIEW	GDR
REV.	DATE	REVISION	BY

APPLICANT / DEVELOPER

NEEDHAM, MA 02494

CONTACT: SCOTT HALEY

85 PORTSMOUTH AVENUE

CONTACT: WAYNE MORRILL

STRATHAM, NH 03885

(781) 559-3301 x131

PO BOX 219

(603) 772-4746

WATERSTONE PROPERTIES GROUP

117 KENDRICK STREET, SUITE 325

CIVIL ENGINEER / SURVEYOR

JONES & BEACH ENGINEERS, INC.

EMAIL: WMORRILL@JONESANDBEACH.COM

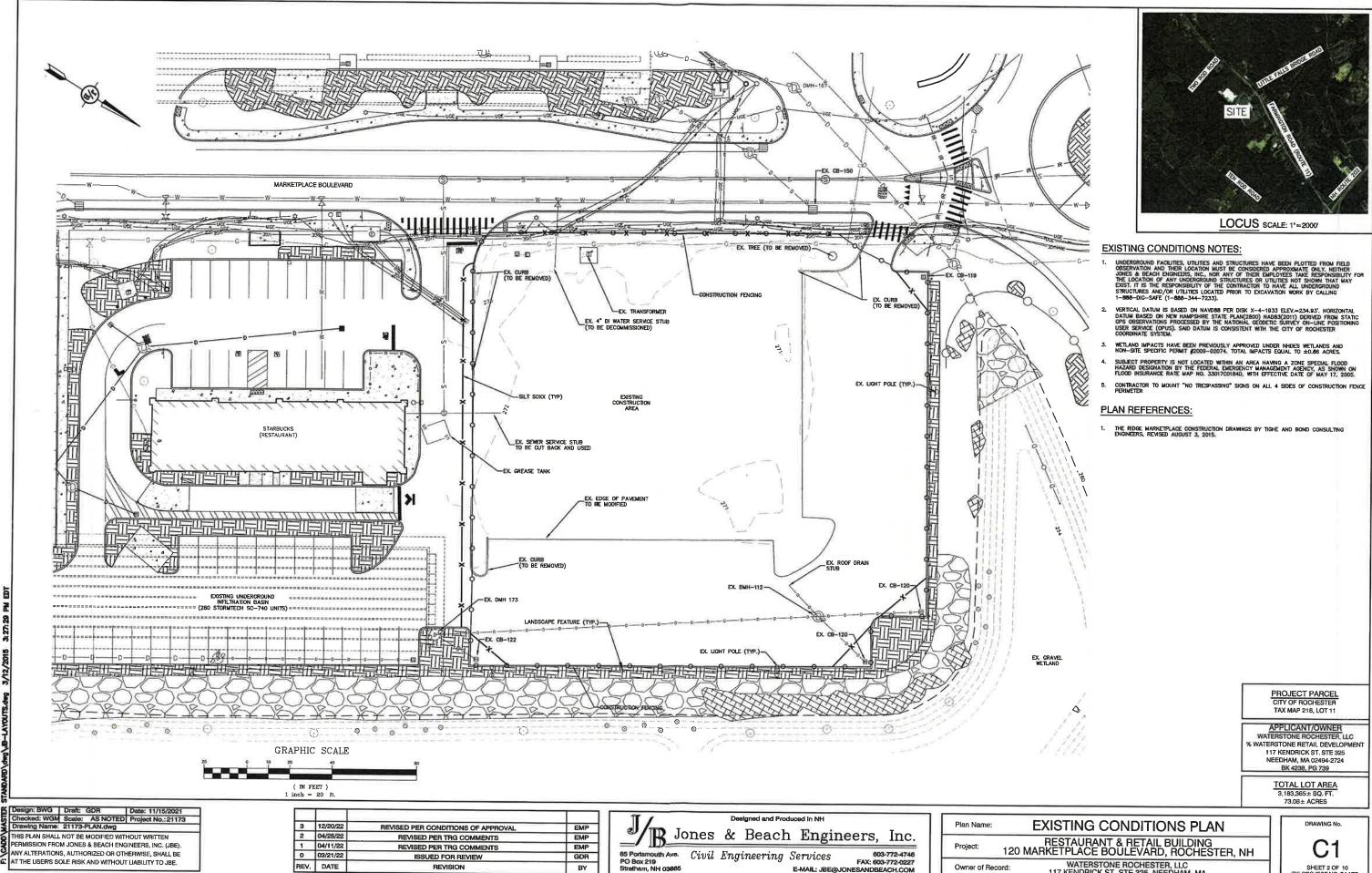


ame: COVER SHEET

RESTAURANT & RETAIL BUILDING 120 MARKETPLACE BOULEVARD, ROCHESTER, NH

WATERSTONE ROCHESTER, LLC 117 KENDRICK ST. STE 325, NEEDHAM, MA CS

SHEET 1 OF 10 JBE PROJECT NO. 21173 RESTAURANT AND F

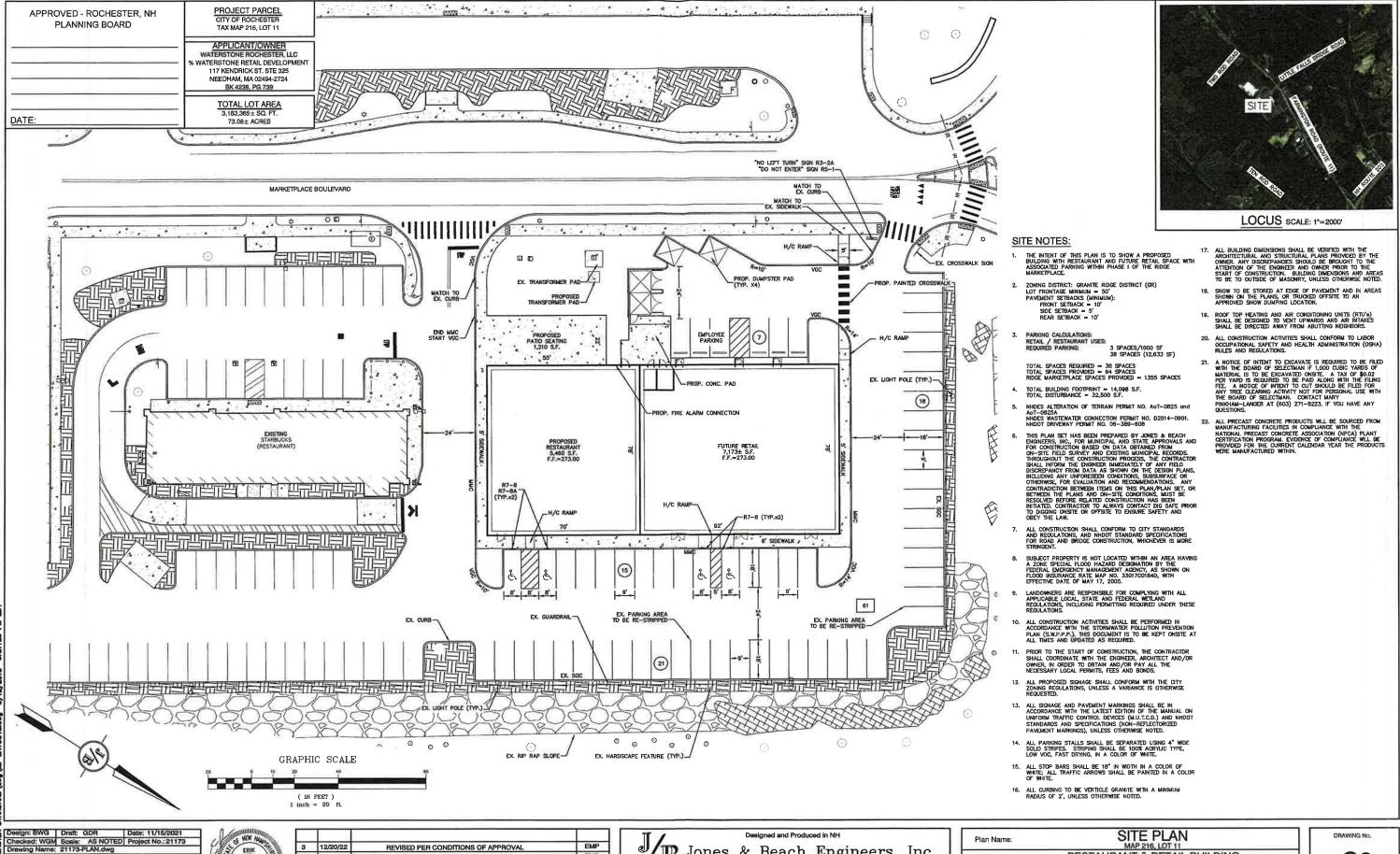


BY

REV. DATE

WATERSTONE ROCHESTER, LLC 117 KENDRICK ST. STE 325, NEEDHAM, MA

Owner of Record:



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Books and Produced in NH

Books & Beach Engineers, Inc.

Books Portsmouth Ave. Civil Engineering Services

FAX: 603-772-0227

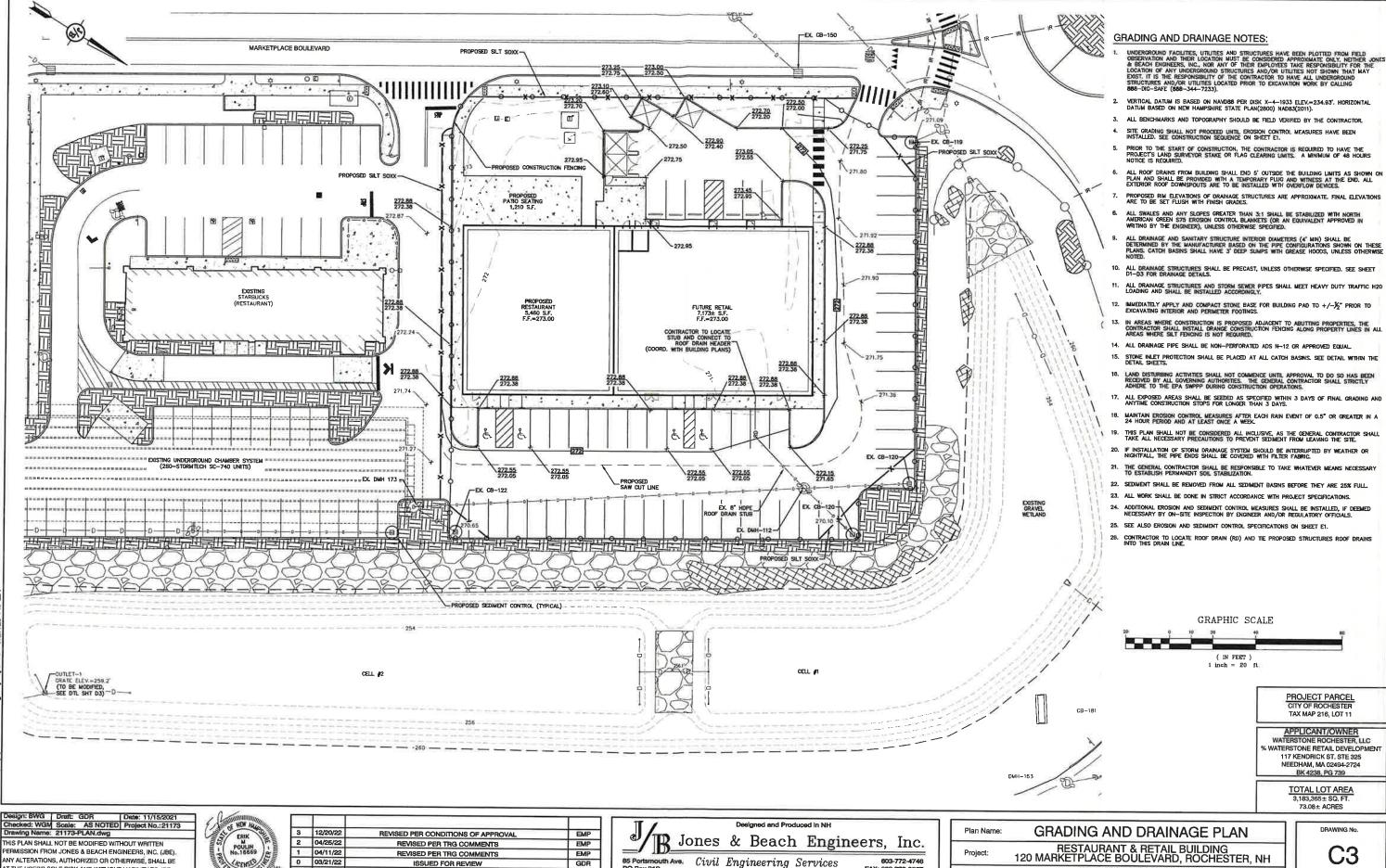
E-MAIL: JBE@JONESANDBEACH.COM

Pian Name: SITE PLAN
MAP 216, LOT 11

Project: RESTAURANT & RETAIL BUILDING
120 MARKETPLACE BOULEVARD, ROCHESTER, NH

Owner of Record: WATERSTONE ROCHESTER, LLC
117 KENDRICK ST. STE 325, NEEDHAM, MA

C2 SHEET 3 OF 10 JBE PROJECT NO. 21173



AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

REV. DATE

REVISION

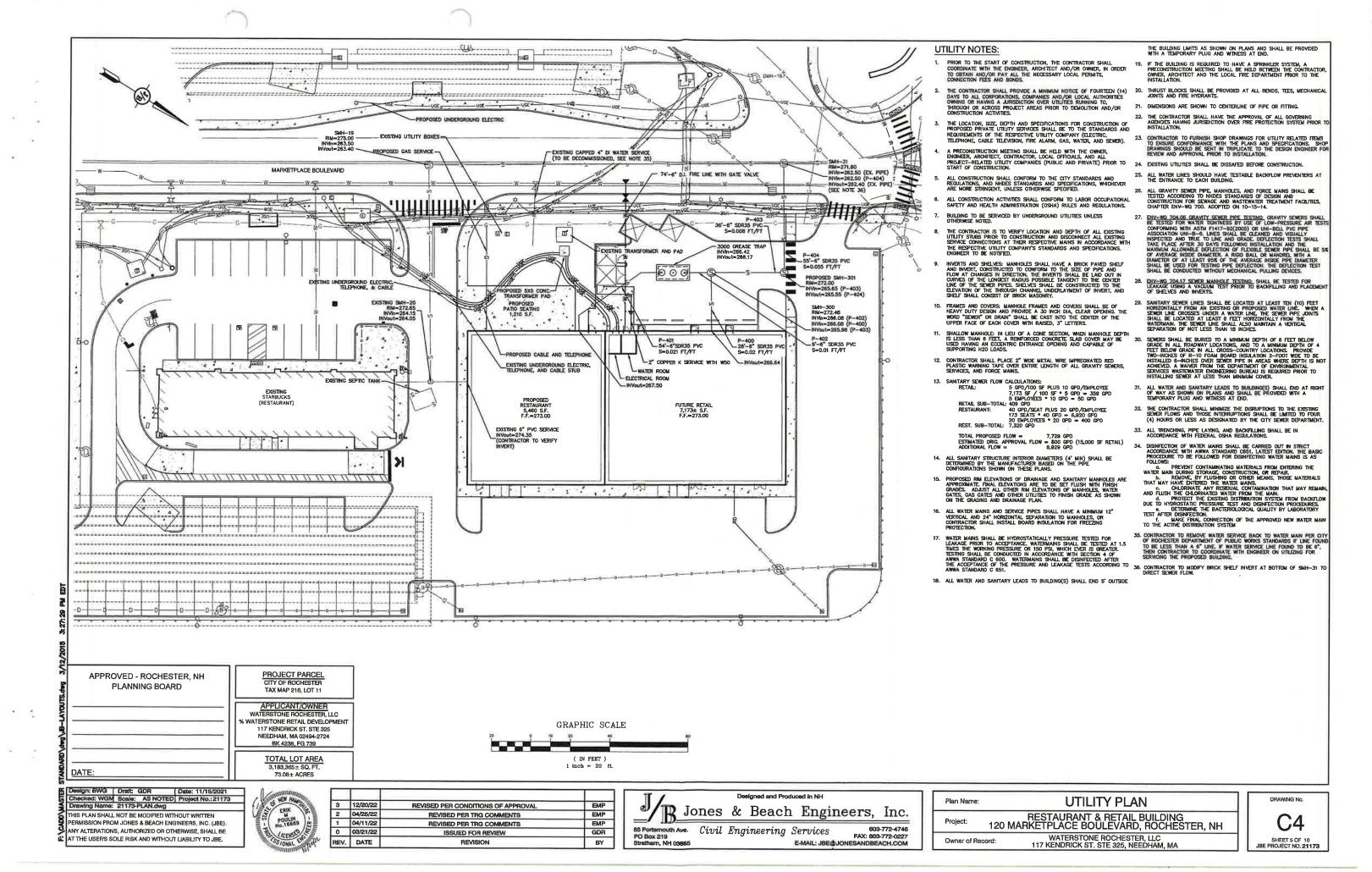
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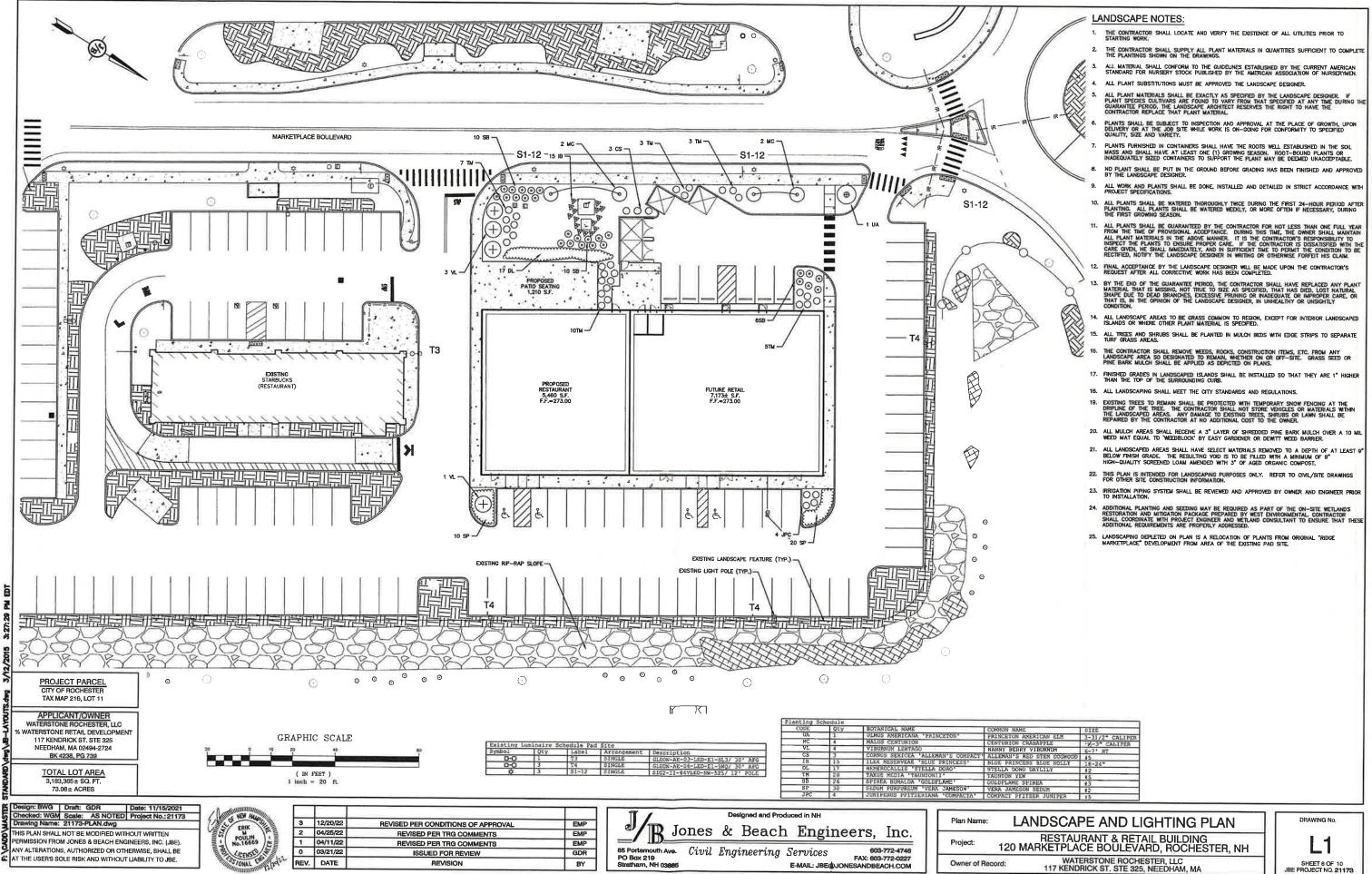
FAX: 603-772-0227
E-MAIL: JBE@JONESANDBEACH.COM

Owner of Record:

SHEET 4 OF 10 JBE PROJECT NO. 21173

WATERSTONE ROCHESTER, LLC 117 KENDRICK ST. STE 325, NEEDHAM, MA

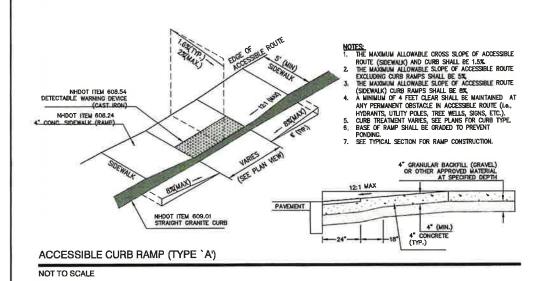




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SHEET 6 OF 10 JBE PROJECT NO. 21173

Owner of Record:



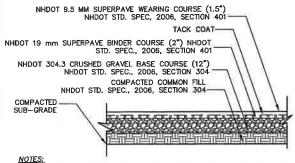
NHDOT ITEM 608.24 4" CONC. SIDEWALK (RAMP)

1. THE MAXIMUM ALLOWARIE CROSS SLOPE OF ACCESSIBLE

- 1. THE MADMINIM ALLOWABLE CROSS SLOPE OF ACCESSIBLE ROUTE (SERVALIA) AND CURS SHALL BE 1.5%.
 2. THE MADMINI ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURS RAMIS SHALL BE 5%.
 3. THE MADMINI ALLOWABLE SLOPE OF ACCESSIBLE ROUTE (SDEWALL) CURS RAMIS SHALL BE MANTANIED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (La., ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (La., C.).
 5. CURS ITREATMENT VARIES, SEE PLANS FOR CURS TYPE.
 6. BASE OF RAMIS SAIL BE GRAVED TO RESCRIPT PROBING. 7. SEE TYPICAL SECTION FOR RAMIP CONSTRUCTION.

NHDOT ITEM 608.54 DETECTABLE WARNING DEVICE NHDOT ITEM 609.01 VERTICAL GRANITE CURB ACCESSIBLE CURB RAMP (TYPE 'B')

NOT TO SCALE

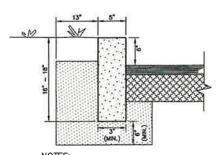


- PAVEMENT SUBGRADES SHOULD BE PROOF ROLLED IN ORDER TO DENSIFY THE SUBGRADES USING A MINIMUM OF 4 PASSES WITH A 10-TON VIBRATORY DRUM COMPACTOR. THE GRAVEL BORROW SUBGRADE COURSE AND CRUSHED GRAVEL
- COMPACTOR. THE GRAVEL BURNEY SUBGRADE COURSE AND CRUSHED GRAVEL BASE COURSE SHOULD BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM-D698).

 2. PAVEMENT SECTION SUBJECT TO CHANGE BASED ON GEOTECHNICAL INVESTIGATION.

STANDARD DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE



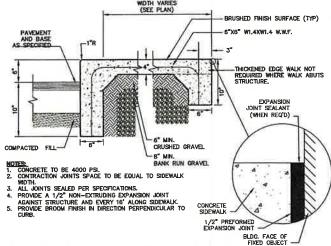
- 1. EDGING TO BE PLACED PRIOR TO PLACING TOP SURFACE COURSE.
- 2. JOINTS BETWEEN STONES SHALL BE MORTARED.

VERTICAL GRANITE CURB (VGC)

NOT TO SCALE

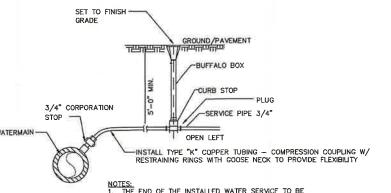
SIGN NUMBER	SIGN		HEIGHT	DESCRIPTION	MOUNT TYPE	MOUNT HEIGHT	REMARKS
R1-1	STOP	30"	30"	WHITE ON RED	CHANNEL	7'-0"	REFLECTORIZED SIGN
R32	0	24"	24"	RED ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
R3-2A	NO LEFT TURM	24"	30"	BLACK ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
R6-1	(GE WAY	36"	12"	BLACK ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
R6-2	=	18"	24*	BLACK ON WHITE	CHANNEL	7'-0"	REFLECTORIZED SIGN
R7-8	E.	12"	24*	BLUE & GREEN ON WHITE	CHANNEL	5'-0"	REFLECTORIZED SIGN
R7-8A	VAN	12"	6"	BLUE & GREEN ON WHITE	CHANNEL	5'-0"	REFLECTORIZED SIGN
31-466	RICHT TURN CNLY	24"	30"	BLACK ON WHITE	CHANNEL	8'-6"	REFLECTÓRIZED SIGN
R5-1		30"	30"	RED / SILVER	CHANNEL	7'-0"	REFLECTORIZED SIGN

TRAFFIC CONTROL SCHEDULE



MONOLITHIC CONCRETE SIDEWALK (MCS)

NOT TO SCALE



NOTES:

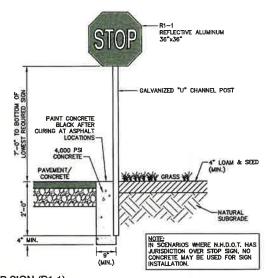
1. THE END OF THE INSTALLED WATER SERVICE TO BE MARKED BY A 2X4.

2. ALL WORK TO BE IN ACCORDANCE WITH THE LOCAL WATER COMPANY INSTALLATION PROCEDURES AND EXPERIENCE ATTAINS.

E-MAIL: JBE@JONESANDBEACH.COM

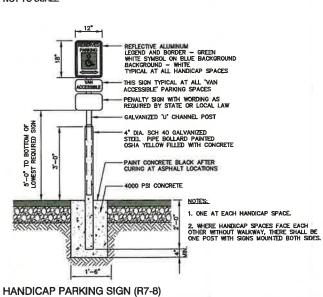
TYPICAL WATER SERVICE CONNECTION

NOT TO SCALE



STOP SIGN (R1-1)

NOT TO SCALE



NOT TO SCALE

PAINTING STRIPING LEGEND SSWL/4" - SINGLE SOLID WHITE LINE / 4" WIDE

SSYL/4* + SINGLE SOLID YELLOW LINE / 4* WIDE EACH DSYL/4" - DOUBLE SOLID YELLOW LINE / 4" WIDE EACH SSYL/IO" - SINGLE SOLID YELLOW LINE / IO" WIDE SBWL /4" - SINGLE BROKEN WHITE LINE / 4" WIDE

Date: 11/15/2021

Design: BWG | Draft: GDR Checked: WGM Scale: AS NOTED Project No.:21173 Drawing Name: 21173-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). NY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE

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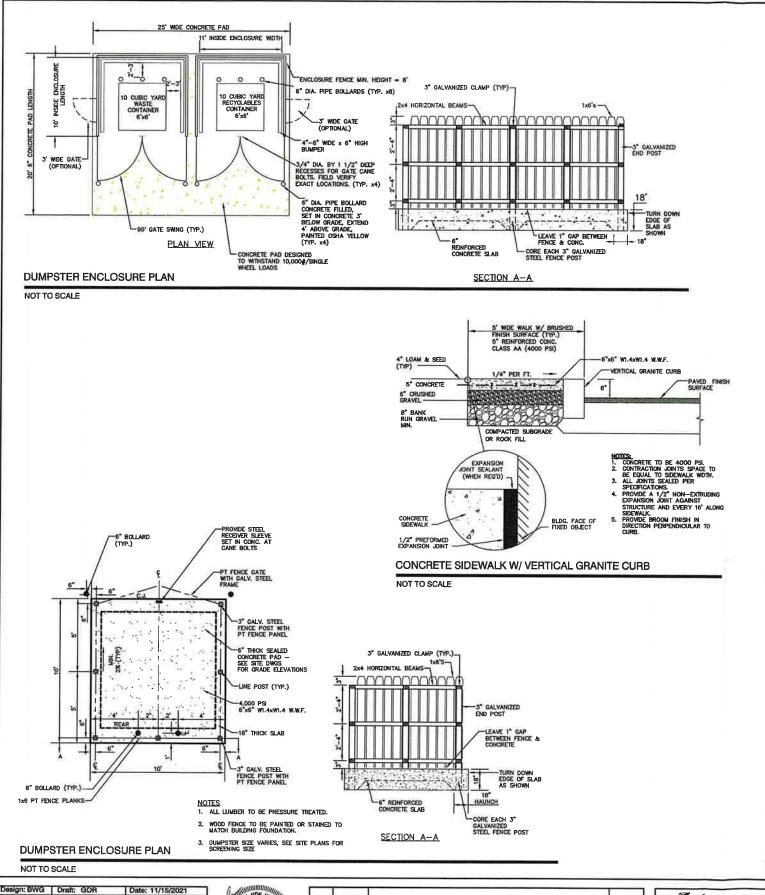


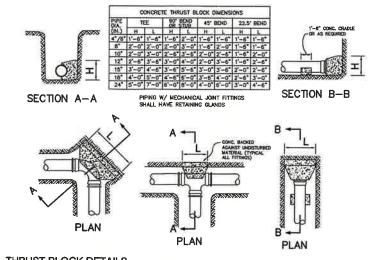
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0	03/21/22	ISSUED FOR REVIEW	GDR
REV.	DATE	REVISION	BY

Designed and Produced in NH Jones & Beach Engineers, Inc. 603-772-4746 85 Portsmouth Ave. Civil Engineering Services PO Box 219 Stratham, NH 03885

DETAIL SHEET RESTAURANT & RETAIL BUILDING 120 MARKETPLACE BOULEVARD, ROCHESTER, NH WATERSTONE ROCHESTER, LLC 117 KENDRICK ST. STE 325, NEEDHAM, MA Owner of Record:

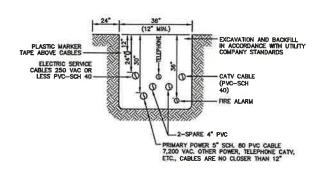
DRAWING No SHEET 7 OF 10 JBE PROJECT NO. 21173





THRUST BLOCK DETAILS

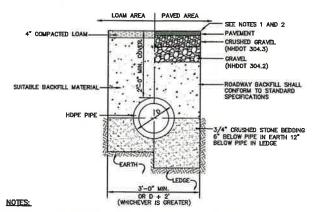
NOT TO SCALE



NOTE: ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.

UTILITY TRENCH

NOT TO SCALE



- 1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM WITH PROJECT AND CITY SPECIFICATIONS.
- 3. ALL MATERIALS ARE TO BE COMPACTED TO 95% OF ASTM D-1557.

DRAINAGE TRENCH

NOT TO SCALE

BACKFILL
MATERIAL
OR SPOIL

WARNING TAPE

COMPANY STANDARDS

CONTRACTOR TO COORDINATE
WITH UTILITY COMPANY AND
PROVIDE EXCAVATION AND
BACKFILL FOR PIPE INSTALLATION

GAS TRENCH

NOT TO SCALE

NOT TO SCALE

Design: BWG Draft: GDR Date: 11/15/2021
Checked: WGM Scale: AS NOTED Project No.:21173
Drawing Name: 21173-PLAN.dwg

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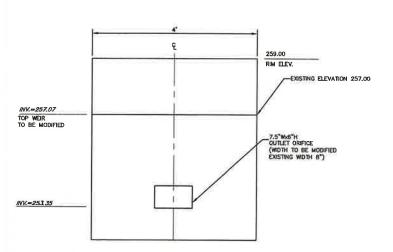
Plan Name:	DETAIL SHEET
Project:	RESTAURANT & RETAIL BUILDING 120 MARKETPLACE BOULEVARD, ROCHESTER, NH
Owner of Rec	ord: WATERSTONE ROCHESTER, LLC 117 KENDRICK ST. STE 325, NEEDHAM, MA

DRAWING No.

D2

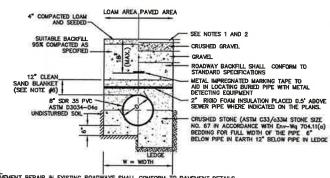
SHEET 8 OF 10

JBE PROJECT NO. 21173



OUTLET #1 WEIR (GRAVEL WETLAND)

NOT TO SCALE

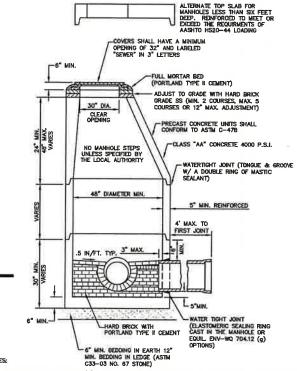


- NOTES: 1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO PAVEMENT DETAILS.
- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECIFICATIONS.
- TRENCH BACKFILL SHALL CONFORM WITH ENV. Wq. 704.11(h) AND BE FREE OF DEBRIS, PAVEMENT, ORGANIC MATTER, TOP SOIL, WET OR SOFT MUCK, PEAT OR CLAY, EXCAVATED LEDGE OR ROCKS OVER SIX INCHES.
- 4. W= MAXMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12" INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, WOTH SHALL BE, NO MORE THAN 36"; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, WOTH SHALL BE 24 INCHES PLUS PIPE 0.0. WIDTH SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
- RIGID FOAM INSULATION TO BE PROVIDED WHERE COVER IN THE ROADWAY IS LESS THAN 6' AND CROSS COUNTRY IS LESS THAN 4', PURSUANT TO DES WAIVER BEING ISSUED.
- JOINT SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL AND CERTIFIED BY THE MANUFACTURER AS CONFORMING TO THE ASTIN DIZZE STANDARD IN EFFECT WHEN THE JOINT SEALS WERE MANUFACTURED, AND SHALL BE PUSH-ON, BELL-AND-SPIGOT TYPE PER Env-Wq 704.05 (4).

SEWER TRENCH

NOT TO SCALE

SEWER MANHOLE



PER NHDES ENV-WQ 704.13(C), MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING.

MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT

O. MORTAR SHALL BE COMPOSED OF 11PE II PURILARID CAMEATI AND SHALL BE AND HITCH HYDRATED LIME ADDITION.

D. PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE PER TABLE 704—4:

(1) 4.5 PARTS SAND, ONE PART CEMENT AND 0.5 PART HYDRATED LIME;

C. CEMENT SHALL BE TIPE II PORTLAND CEMENT THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS MANUFACTURED.

CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS MANUFACTURED

1. HYDRATED LINE STALL BE TYPE S THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C207 STANDARD IN EFFECT AT THE TIME THE HYDRATED LINE WAS PROCESSED IN SAND SHALL CONSIST OF INERT INATURAL SAND THAT IS CORTIFIED BY ITS SUPPLIER AS STANDARD SPECIFICATIONS FOR CONCRETE, INTERCORECATES THE THE SAND IS PROCESSED BY STANDARD SPECIFICATIONS FOR CONCRETE IN THE CORPORATION FOR CLASS ANA CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO THE REQUIREMENT FOR CLASS ANA CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO THE REQUIREMENT FOR CLASS ANA CONCRETE FOR THE MAMPSHIRE DEPARTMENT OF TRANSPORTATIONS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AVAILABLE AT:

HTTP://WWW.NH.GOV/DOT/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/SPECIFICATIONS/INDEX.HTM

- SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL IN ACCORDANCE WITH ENV-WIG 704.12 (K).
- ALL MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH ENV-WQ 704.17 (a) THROUGH (a).
- SEWER MANHOLE COVERS SHALL CONFORM TO ASTM A48/48M WITH A CASTING EQUAL TO CLASS 30 IN ACCORDANCE WITH ENV-WQ 704.13 (a) (8).
- ALL PRECAST SECTIONS SHALL BE COATED ON THE EXTERIOR WITH A BITUMINOUS DAMP-PROOFING COATING IN ACCORDANCE WITH ENV-WQ 704.12 (J).
- ALL PRECAST SECTIONS AND BASES SHALL HAVE THE DATE OF MANUFACTURE AND THE NAME OF TRADEMARK OF THE MANUFACTURER IMPRESSED OR INDELIBLY MARKED ON THE INSIDE WALL PER ENV-WO 70-12(9).
- 7. BRICK MASONRY SHALL CONFORM TO ASTM C32 (ENV-WQ 704.12(a)(9))

NOT TO SCALE

3 12/20/22 REVISED PER CONDITIONS OF APPROVAL EMP 2 04/25/22 EMP REVISED PER TRG COMMENTS EMP 1 04/11/22 REVISED PER TRG COMMENTS 0 03/21/22 GDR ISSUED FOR REVIEW REV. DATE

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-16"

(1) CONCRETE STRENGTH 5,000 PSI MIN. STRENGTH @ 28 DAYS

GREASE TRAP (3,000 & 4,000 GAL.)

DESIGN DATA & GENERAL NOTES

- ROOT BALL

HOLE - THREE TIMES ROOTBALL DIAMETER, WITH SLOPED SIDES

17'-0"

SCH. 40 PVC SANITARY INSPECTION TEES

=

PLAN VIEW

SECTION VIEW

(1) CONCRETE STRENGTH 5,000 PSI MIN. STRENGTH 6g. 28 DAYS
(2) STEEL REINFORCEMENT - ASTM A415 BADDE 69
(3) CONCRETE COVER OVER STEEL. 1" MIN.
(4) TANKS ARE DESIGNED TO MEET ASTM C888 AND ACI 318 WITH AASHTO HS-20 LOADING
(5) EARTH COVER - 5 TO 4 FEET
(6) CONSTRUCTION JOINT - TONGUE AND GROOVE SEALED WITH 6" STRIP OF BUTYL RUBBER OR EQUIVALENT
(6) PRECAST CONCRETE GREASE TRAP MUST CONFORM TO ALL STATE & LOCAL PLIMBING CODES

TREE PLANTING (FOR TREES UNDER 4" CALIPER)

NOT TO SCALE

6" DIA, INLET WI-

RUBBER HOSE (ABOVE

THREE STRANDS OF #10 GAUGE TWISTED GALVANIZED STEEL WIRE

STAKE (3 STAKES PER TREE) TIGHTEN AS SHOWN

TREE SHALL BE SET PLUMB, AFTER SETTLEMENT

TRUNK FLARE SHALL BE SET 2" ABOVE THE ESTABLISHED FINISHED GRADE. SIT ROOT BALL DIRECTLY ON UNDISTURBED SOIL

-3" PINE BARK MULCH, DO NOT PLACE MULCH WITHIN 3" OF TRUNK

-SLOPE SOIL TO FORM 3" HIGH SAUCER.

PLANT BACK FILL MIXTURE AND TAMP FIRM BY FOOT WITHOUT DAMAGING ROOT

UNTIE AND CUT AWAY BURLAP FROM 1/3 OF ROOT BALL

(MIN): IF SYNTHETIC WRAP IS USED, REMOVE COMPLETELY

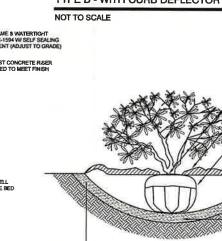
6° DIA OUTLET W

20000000 2 EACH DUMP STRAPS-INSTALLATION DETAIL BAG DETAIL DUMP STRAP SILTSACK -NOTES: 2. WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, SILTSACK IS FULL AND SHOULD BE EMPTIED. TO REMOVE SILTSACK, TAKE TWO PIECES OF 1" DIAMETER REBAR AND PLACE THROUGH THE LIFTING LOOPS ON EACH SIDE OF THE SACK TO FACILITATE THE LIFTING OF SILTSACK.

- 4. TO EMPTY SLTSACK, PLACE UNIT WHERE THE CONTENTS WILL BE COLLECTED. PLACE THE REBAR THROUGH THE LIFT STRAPS (CONNECTED TO THE BOTTOM OF THE SACK) AND LIFT. THIS WILL LIFT SLTSACK FROM THE BOTTOM AND EMPTY THE CONTENTS. CLEAN OUT AND RINSE. RETURN SLTSACK TO ITS ORIGINAL SHAPE AND PLACE BACK IN THE BASH.
- SILTSACK IS REUSABLE. ONCE THE CONSTRUCTION CYCLE IS COMPLETE, REMOVE SILTSACK FROM THE BASIN AND CLEAN. SILTSACK SHOULD BE STORED OUT OF SUNLIGHT UNTIL NEXT USE.

SILTSACK INLET SEDIMENT CONTROL DEVICE TYPE B - WITH CURB DEFLECTOR

HOLE - THREE TIMES ROOT BALL DIAMETER
WITH SLOPED SIDES



PLANT 1 INCH ABOVE SURROUNDING GROUND 3" PINE BARK MUI CH COVER STEMS OR TRUNK. UNTIE AND CUT AWAY BURLAP FROM 1/3 OF ROOT BALL (MIN); IF SYNTHETIC WRAP IS USED, REMOVE COMPLETELY

SLOPE SOIL TO FORM SAUCER

PLANT BACK FILL MIXTURE

(% COMPOST, % LOAM) - EXISTING OR COMPACTED SUBGRADE

LOOSEN ROOTS AT THE OUTER EDGE OF ROOT BALL OF CONTAINER GROWN SHRUBS.

SHRUB PLANTING

NOT TO SCALE

Plan Name: **DETAIL SHEET**

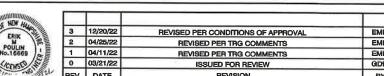
RESTAURANT & RETAIL BUILDING 120 MARKETPLACE BOULEVARD, ROCHESTER, NH Project: WATERSTONE ROCHESTER, LLC 117 KENDRICK ST. STE 325, NEEDHAM, MA Owner of Record:

D3 SHEET 9 OF 1 JBE PROJECT NO.21173

DRAWING No.

Design: BWG | Draft: GDR | Date: 11/15/2021 Checked: WGM | Scale: AS NOTED | Project No.:21173 Drawing Name: 21173-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

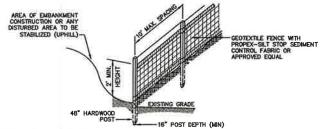




TEMPORARY EROSION CONTROL NOTES

- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME AT NO TIME SHALL AN AREA IN EXCESS OF 5 ACRES BE EXPOSED AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
- 2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
- ALL DISTURBED AREAS (INCLUDING POND AREAS BELOW THE PROPOSED WATERLINE) SHALL BE RETURNED TO PROPOSED GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 6" OF SCREENED ORGANIC LOAM AND SEEDED WITH SEED MIXTURE 'C' AT A RATE NOT LESS THAN 1.10 POUNDS OF SEED PER 1,000 S.F. OF AREA (48 LBS. / ACRE).
- SILT FENCES AND OTHER BARRIERS SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5° OR GREATER. ALL DAMAGED AREAS SHALL BE REPAIRED, AND SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF,
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
- AREAS MUST BE SEEDED AND MULCHED OR OTHERWISE PERMANENTLY STABILIZED WITHIN 3 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 14 DAYS OF THE INITIAL DISTURBANCE OF SOIL ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- 7. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING NORTH AGRICAN GREEN 575 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER) ON SLOPES GREATER THAN 31, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE. SECURED WITH ANCHORED METTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER OCTOBER 15th, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.
- 10. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

 - b. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED:
 - Q. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
 - d. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 11. FUGITIVE DUST CONTROL IS REQUIRED TO BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000, AND THE PROJECT IS TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
- 12. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS, AND PHONE NUMBER SHALL BE SUBMITTED TO DES VIA EMAIL (SEE BELOW).
- 13. PRIOR TO CONSTRUCTION, A PHASING PLAN THAT DELINEATES EACH PHASE OF THE PROJECT SHALL BE SUBMITTED. ALL TEMPORARY SEDIMENT BASINS THAT WILL BE NEEDED FOR DEWATERING WORK AREAS SHALL BE LOCATED AND IDENTIFIED ON THIS PLAN.
- 14. IN ORDER TO ENSURE THE STABILITY OF THE SITE AND EFFECTIVE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE PLANS FOR THE DURATION OF CONSTRUCTION, THE COMPLIANCE WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS IN ADDITION TO THOSE CHALLE FOR IN THE SMPPP:
 - a. A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE ("MONITOR") SHALL BE EMPLOYED TO INSPECT THE SITE FROM THE START OF ALTERATION OF TERRAIN ACTIVITIES UNTIL THE SITE IS IN FULL COMPLIANCE WITH THE SITE SPECIFIC PERMIT" ("PERMIT").
 - b. During this period, the monitor shall inspect the subject stee at least of them a week, and if possible, during any X inch or greater rain event (i.e. X inch or precipitation or more within a 24 hour period). Unable to be present during such a storm, the monitor shall inspect the site within 24 hours of this event.
 - c. THE MONITOR SHALL PROVIDE TECHNICAL ASSISTANCE AND RECOMMENDATIONS TO THE CONTRACTOR ON THE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDMENT CONTROLS REQUIRED TO MEET THE REQUIREMENTS OF RSA 48S 417 AND ALL APPLICABLE DES PERMIT CONDITIONS.



CONSTRUCTION SPECIFICATIONS:

Woven Fabric Fence to be fastened securely to fence posts with wire ties or staples. Filter cloth shall be fastened to woven wire every 24° at top, and and bottom and embedded in the ground a minimum of 8° and then covered with soil.

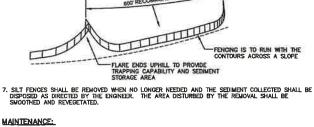
- THE FENCE POSTS SHALL BE A MINIMUM OF 48° LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 18° INTO THE GROUND.
- . WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED 6", FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED AND PROPERLY DISPOSED OF WHEN IT IS 6" DEEP OR VISIBLE 'BULGES' DEVELOP IN THE SILT FENCE.

5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.

6. SILT FENCE SHALL REMAIN IN PLACE FOR 24 MONTHS.

SILT FENCE

NOT TO SCALE



DISTURBED AREA

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE DONE IMMEDIATELY.
- 2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
- 4. SEDIMENT DEPOSITS THAT ARE REMOVED, OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED, SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SEEDING SPECIFICATIONS

1. CRADING AND SHAPING.
A. SLOPES SHALL NOT BE STEEPER THAN 2:1 WITHOUT APPROPRIATE EROSION CONTROL MEASURES AS SPECIFIED ON THE PLANS (3:1 SLOPES OR FLATTER ARE PREFERRED). B. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

- SEEDBED PREPARATION.
 A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING
- A. SURFACE AND SEPPACE WATER SHOULD BE DRAINED OR DIVERTED FROM THE STIE TO FRETEND DOWNSTREET BY STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEPDEDED AND FERTILIZER AND LIME MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION

3. <u>Establishing a Stand</u>

A. Lime and Fertilizer should be applied prior to or at the time of seeding and incorporated into the soil. Types and amounts of lime and fertilizer should be based on an evaluation of soil tests, when a soil test is not available, the following minimum amounts should be applied:

QPDIEU: QRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS, PER 1,000 SQ.FT. NITROGEN(N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ.FT. PHOSPHATE(P205), 100 LBS, PER ACRE OR 2.2 LBS, PER 1.000 SQ.FT.

POTASH(K20), 100 LBS, PER ACRE OR 2,2 LBS, PER 1,000 SQ,FT

- POTASH(K2O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.
 (MOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER
 ACRE OF 5-10-10.)

 SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE STE. METHODS
 INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING, WHERE BROADCASTING IS USED, COVER SEED WITH
 2.5 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAGING. C. REFER TO THE 'SEEDING GUIDE' AND 'SEEDING RATES' TABLES ON THIS SHEET FOR APPROPRIATE SEED
- MIXTURES AND RATES OF SEEDING. ALL LEGUMES (GROWNVETCH, BIRDSPOOT, TREFOIL AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT PRIOR TO THEIR INTRODUCTION TO THE SITE. WHEN SEEDED AREAS ARE MULCHED, FLATININGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER.
- WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20th OR FROM AUGUST 10th TO SEPTEMBER 1st

 MULCH.
 A. MAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
 B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE. FOR MULCHING, HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 S.F.

- 5. <u>MAINTENANCE TO ESTABLISH A STAND</u>

 A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED
- GROWTH.

 B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME FULLY SETABLISHED.

 C. IN WATERWAYS, CHAMICLS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, ANNUAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODLY VEGETATION.

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND	A	FAIR	GOOD	G000	FAIR
FILLS, BORROW	В	POOR	GOOD	FAIR	FAIR
AND DISPOSAL AREAS	С	POOR	6000	EXCELLENT	GOOD
	D	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENC	Y A	GOOD	GOOD	GOOD	FAIR
SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	С	G000	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING	A	GOOD	GOOD	GOOD	FAIR
LOTS, ODD AREAS,	В	GOOD	GOOD	FAIR	POOR
unused lands, and Low intensity use recreation sites.	С	GOOD	EXCELLENT	EXCELLENT	FAIR
PLAY AREAS AND	Ē	FAIR	EXCELLENT	EXCELLENT	2/ 2/
ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	r	FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS. 1/ refer to seeding mixtures and rates in table below.
2/ poorly drained soils are not desirable for use as playing area and athletic fields.

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCTOBER 15th, IF PERMANENT SEEDING NOT YET COMPLETE.

SEEDING GUIDE

MIXTURE	POUNDS PER_ACRE_	POUNDS 1.000 So
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE CREEPING RED FESCUE CROWN VETCH OR	15 10 15	0.35 0.25 0.35
FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.
C. TALL FESCUE CREEPING RED FESCUE BIRDS FOOT TREFOIL TOTAL	20 20 6 48	0.45 0.45 0.20 1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

SEEDING RATES

-2" X 2" X 36" WOODEN STAKES PLACED 10' O.C. FILTREXX® SILT SOXX ** (12" TYPICAL) ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS. WATER FLOW 2. SILT SOXX™ FILL TO MEET APPLICATION REQUIREMENTS. WORK AREA COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER. SEE COVER SHEET "NH FISH & GAME & AOT PERMIT CONDITIONS RELATED TO THREATENED AND ENDANGERED SPECIES". -1" X 1" X 36" WOODEN STAKES PLACED 10' O.C. BLOWN /PLACED FILTER MEDIA **-FILTREXXESILT SOXX™ (12" TYPICAL) AREA TO BE PROTECTED WORK AREA 12" MIN SECTION FILTREXX® SILT SOXX™ NOT TO SCALE

CONSTRUCTION SEQUENCE

- 1. CUT AND REMOVE TREES IN CONSTRUCTION AREA AS REQUIRED OR DIRECTED.
- INSTALL SILT SACK CATCH BASINS INSERTS PRIOR TO THE START OF CONSTRUCTION, THESE ARE TO BE MAINTAINED UNTIL THE FINAL PAVEMENT SURFACING AND LANDSCAPING AREAS ARE ESTABLISHED.
- CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. THIS INCLUDES ANY REQUIRED DEMOLITION OF EXISTING STRUCTURES, UTILITIES, ETC.
- STRIP LOAM AND PAVEMENT, OR RECLAIM EXISTING PAVEMENT WITHIN LIMITS OF WORK PER THE RECOMMENDATIONS OF THE PROJECT ENGINEER AND STOCKPILE EXCESS MATERIAL. STABILIZE STOCKPILE AS NECESSARY.
- 5. PERFORM PRELIMINARY SITE GRADING IN ACCORDANCE WITH THE PLANS, BYCLUDING THE CONSTRUCTION OF ANY RETAINING WALLS AND SOUND WALLS.
- 6. PREPARE BUILDING PAD(S) TO ENABLE BUILDING CONSTRUCTION TO BEGIN.
- INSTALL THE SEWER AND DRAINAGE SYSTEMS FIRST, THEN ANY OTHER UTILITIES IN ACCORDANCE WITH THE PLAN AND DETAILS. ANY CONFLICTS BETWEEN UTILITIES ARE TO BE RESOLVED WITH THE INVOLVEMENT AND APPROVAL OF THE ENGINEER.
- 8. ALL SWALES AND DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM
- DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, CHECK DAMS, SEDIMENT TRAPS, ETC., TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUITING WATERS AND/OR PROPERTY.
- 10. PERFORM FINAL FINE GRADING, INCLUDING PLACEMENT OF 'SELECT' SUBGRADE MATERIALS.
- 11. PAVE ALL PARKING LOTS AND ROADWAYS WITH INITIAL 'BASE COURSE'.
- 12. PERFORM ALL REMAINING SITE CONSTRUCTION (I.e. BUILDING, CURBING, UTILITY CONNECTIONS, ETC.).
- 13. LOAM AND SEED ALL DISTURBED AREAS AND INSTALL ANY REQUIRED SEDIMENT AND EROSION CONTROL FACILITIES (I.e. RIP RAP, EROSION CONTROL BLANKETS, ETC.).
- 14. FINISH PAVING ALL ROADWAYS AND PARKING AREAS WITH 'FINISH' COURSE.
- 15. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 16. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 17. COMPLETE PERMANENT SEEDING AND LANDSCAPING
- 18. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BEEN 75%-85% ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
- 19. CLEAN SITE AND ALL DRAINAGE STRUCTURES, PIPES AND SUMPS OF ALL SILT AND DEBRIS.
- 20. INSTALL ALL PAINTED PAVEMENT MARKINGS AND SIGNAGE PER THE PLANS AND DETAILS.
- 21. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL
- 22. UPON COMPLETION OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ANY RELEVANT PERMITTING AGENCIES THAT THE CONSTRUCTION HAS BEEN FINISHED IN A SATISFACTORY MANNER.

Designed and Produced in NH

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RESTAURANT & RETAIL BUILDING 120 MARKETPLACE BOULEVARD, ROCHESTER, NH Project: WATERSTONE ROCHESTER, LLC 117 KENDRICK ST. STE 325, NEEDHAM, MA Owner of Record:

EROSION AND SEDIMENT CONTROL DETAILS

DRAWING No

SHEET 10 OF 10 JBE PROJECT NO.21173

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3	12/20/22	REVISED PER CONDITIONS OF APPROVAL	EMP
2	04/25/22	REVISED PER TRG COMMENTS	EMP
1	04/11/22	REVISED PER TRG COMMENTS	EMP
0	03/21/22	ISSUED FOR REVIEW	GDR
REV.	DATE	REVISION	BY