



MINOR SUBDIVISION APPLICATION (a total of three or fewer lots)

City of Rochester, New Hampshire

[office use only. Check # Amount \$ Date paid]
Date: <u>1/8/2019</u> Is a conditional needed? Yes: No: X Unclear: Unclear: (If so, we encourage you to submit an application as soon as possible.)
Property information
Tax map #: 216 Lot #('s): 11 & 11-1; Zoning district: Granite Ridge
Property address/location: 92 Farmington Road (Route 11) Rochester, NH 03868
Name of project (if applicable): The Ridge Marketplace
Size of site: <u>±86</u> acres; overlay zoning district(s)? <u>Conservation Overlay District</u>
Property owner
Name (include name of individual): Waterstone Rochester, LLC (Douglas R. Richardson)
Mailing address: 322 Reserviour Street, Needham, MA 02494
Telephone #: 781.559.3301 x112 Email: drichardson@waterstonepg.com
Applicant/developer (if different from property owner)
Name (include name of individual):
Mailing address:
Telephone #: Email:
Engineer/surveyor
Name (include name of individual): Tighe & Bond (Engineer) & Doucet Survey Inc. (Surveyor)
Mailing address: 177 Corporate Drive, Portsmouth NH 03801 (Engineer)
102 Kent Place, Newmarket NH, 03857 (Surveyor)
Telephone #: 603.433.8818 (Engineer) & 603.659.6560 (Surveyor) Fax #: N/A
Email address: PMCriminns@TigheBond.com (Engineer) & Jeff@doucetsurvey.com (Surveyor)
Professional license #: 12378 (Engineer) & 964 (Surveyor)
Proposed project
Number of proposed lots: 2 (plus land to become City of Rochester ROW) Are there any
pertinent covenants? Conservation land on site
Number of cubic yards of earth being removed from the site? N/A
City water? yes X no ; How far is City water from the site? Within Route 11 ROW
City sewer? yes_X_ no; How far is City sewer from the site? Within Route 11 ROW

J:\R\R0301 Rochester, NH On Call\04-Rochester, Waterstone, Rt 11\REPORT\20190108_Subdivision Application\Minor Subdivision.doc Updated 4/11/2013

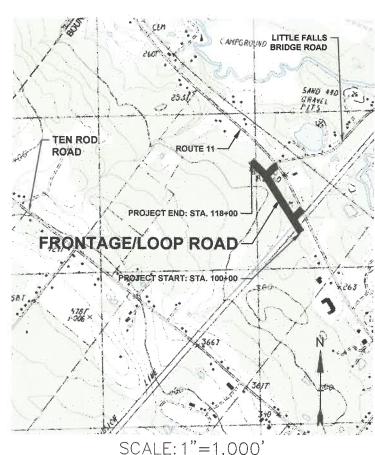
Page 1 (of 2 pages)

Continued Minor Subdivision Plan application Tax Map: 216 Lot: 11 & 11-1 Zone Granite Ridge)			
Wetlands: Is any fill proposed? No ; area to be filled:; buffer impact?			
Comments Please feel free to add any comments, additional information, or requests for waivers here:			
Submission of application This application must be signed by the property owner, applicant/developer (if different from property owner), <i>and/or</i> the agent.			
I (we) hereby submit this Subdivision application to the City of Rochester Planning Board pursuant to the <u>City of Rochester Subdivision Regulations</u> and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant/developer (if different from property owner)/as agent, I attest that I am duly authorized to act in this capacity.			
Signature of property owner:			
Jech lang Date: 1/3/18			
Signature of applicant/developer:			
Date: 1/3/19			
Signature of agent:			
Date:			
Authorization to enter subject property			
I hereby authorize members of the Rochester Planning Board, Zoning Board of Adjustment, Conservation Commission, Planning Department, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections during the application phase, review phase, post-approval phase, construction phase, and occupancy phase. This authorization applies specifically to those particular individuals legitimately involved in evaluating, reviewing, or inspecting this specific application/project. It is understood that these individuals must use all reasonable care, courtesy, and diligence when entering the property.			
Signature of property owner:			
Page 2 (of 2 pages)			

J:\R\R0301 Rochester, NH On Call\04-Rochester, Waterstone, Rt 11\REPORT\20190108_Subdivision Application\Minor Subdivision.doc Updated 4/11/2013

GRANITE RIDGE DEVELOPMENT DISTRICT FRONTAGE ROAD FARMINGTON ROAD (ROUTE 11) ROCHESTER, NEW HAMPSHIRE

JANUARY 27, 2015 LAST REVISED: FEBRUARY 25, 2016



Prepared

City of Rochester, New Hampshire

For: 45 Old Dover Road

Rochester, New Hampshire 03867

Owner:

Waterstone Rochester, LLC 145 Rosemary Way, Suite B Needham Heights, MA 02494

Prepared

Tighe&Bond

Consulting Engineers 177 Corporate Drive Portsmouth, NH 03801

SHEET	TITLE	DATE
NO.	COVER SHEET	01/27/2015
R-1	LEGEND AND NOTES SHEET	01/27/2015
R-2	EROSION CONTROL NOTES SHEET	01/27/2015
R-3	OVERALL FRONTAGE ROAD DEVELOPMENT PLAN	01/27/2015
R-4	TYPICAL CROSS SECTIONS	01/27/2015
R-5	EXISTING CONDITIONS AND DEMOLITION PLAN	01/27/2015
R-6	ROADWAY, GRADING, AND DRAINAGE PLAN AND PROFILE	07/27/2015
R-7	ROADWAY, GRADING, AND DRAINAGE PLAN AND PROFILE	02/25/2016
R-8	PRIMARY DRIVE AND SECONDARY DRIVE ROADWAY, GRADING, AND DRAINAGE PLAN AND PROFILE	02/25/2016
R-9	CURBING AND SITE LAYOUT	02/25/2016
R-10	MARKING AND SIGNAGE PLAN	02/25/2016
R-11	UTILITIES PLAN AND PROFILE	07/27/2015
R-12	UTILITIES PLAN AND PROFILE	02/25/2016
R-13	PRIMARY DRIVE AND SECONDARY DRIVE UTILITIES PLAN AND PROFILE	02/25/2016
R-14	LANDSCAPE PLAN	02/25/2016
R-15	DETAILS SHEET	02/20/2015
R-16	DETAILS SHEET	01/27/2015
R-17	DETAILS SHEET	08/03/2015
R-18	DETAILS SHEET	08/03/2015
R-19	DETAILS SHEET	02/20/2015
R-20	DETAILS SHEET	02/20/2015
R-21	PHOTOMETRIC PLAN	07/15/2015
R-22	STREET LIGHT CIRCUITRY PLAN	01/27/2015
R-23	ALTERNATE 1 GRADING, DRAINAGE, AND EROSION CONTROL PLAN	01/27/2015
R-24	ALTERNATE 1 GRADING DETAILS	01/27/2015
R-25	ALTERNATE 1 GRADING DETAILS	02/20/2015







PLAN SET 2 OF 3 COMPLETE SET 26 SHEETS LATITUDE: LONGITUDE:

FRONTAGE ROAD ROUTE 11 (FARMINGTON ROAD)
ROCHESTER, NH 03867

DESCRIPTION
THE PROJECT CONSISTS OF THE CONSTRUCTION OF 2,164 LINEAR FEET OF ROADWAY, DRAINAGE,

DISTURBED AREA.
THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY ±3.6 ACRES.

SOIL CHARACTERISTICS.
BASED ON SITE SPECIFIC SOIL SURVEY CONDUCTED BY NHSC, INC. THE SITE CONSISTS MAINLY OF MODERATELY TO POORLY DRAINED SOILS WITH HYDROLOGIC SOIL GROUPS B, C, AND D.

MODERATELY TO PONE! DIVIDING SOLES WITH PRODUCTION OF COURSE, C, AND D. SEQUENCE OF MAJOR ACTIVITIES.

THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430: 53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

1. CUT AND CLEAR TREES.

THE AND CLEAR TREES.

CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES, EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS

EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS

- NEW CONSTRUCTION

- DEVELOPMENT OF BORROW PIT AREAS

- DISPOSAL OF SEDIMENT SPOIL. STUMP AND OTHER SOLID WASTE

- FLOOD PLAIN EXCAVATION WORK

- STREAM CHANNEL MODIFICATIONS

- CONSTRUCTION FOR ACCESS AND HAUL ROAD

- CONSTRUCTION DEFINED STORM WATERS

- CONSTRUCTION DURING LATE WINTER AND EARLY SPRING

- CAUSTRUCTION DURING LATE WINTER AND EARLY SPRING

- CONSTRUCTION DURING LATE WINTER AND EARLY SPRING

- CAUSTRUCTION DURING LATE WINTER AND MON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF I THEM.

STABILIZED USING THE VECETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF TO THEM.

CLEAR AND DISPOSE OF DEBRIS.

CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.

GRADE AND GRAVEL ROADWAYS AND PARKING AREAS — ALL ROADS AND PARKING AREA SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.

BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING, ALL CUT AND FILL SLOPES HALL BE SEEDED AND MULCHED MULCHED MULCHED MIMEDIATELY AFTER THEIR CONSTRUCTION.

DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.

FINISH PAVING ALL ROADWAYS AND PARKING LOTS.

INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.

COMPLETE PERMANENT SEEDING AND LANDSCAPING,

REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.

THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.

VOIE: THE CONSTRUCTION WATERS

THE STORM WATER RUNOFF WILL BE DISCHARGED VIA OVERLAND FLOW TO UNNAMED WETLANDS

THE STORM WATER RUNOFF WILL BE DISCHARGED VIA OVERLAND FLOW TO UNNAMED WETLANDS

WHICH ULIMMAIELY FLOW TO THE COCHECO RIVER.

REOSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES
A STABILIZATION SHALL BE INTINATED ON ALL LOAM STOCKPILES AND DISTURBED AREAS WHERE
CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR MORE THAN TWENTY ONE (21) CALENDAR DAYS BY
THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORABILY
CEASED IN THAT AREA. ALL CUT AND FILL SLOPES AND ROADWAYS SHALL BE STABILIZED WITHIN
72 HOURS OF ACHEVIUM FINISHED GRADE. STABILIZATION MEASURES TO BE USED INCLUDE:
1. TEMPORARY SEEDING
2. MULCHING
2. MULCHING

4. JULE MALITING DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH HAYBALE BARRIERS AND SLIT FENCES. ALL STORM DARM BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY

NOYEMBER 15.

AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:

BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.

A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.

A MINIMUM OF 3° OF NON-ERGSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED.

EROSION CONTROL BLANKETS HAVE BEEN PROPERTY INSTALLED.

4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
WINTER CONSTRUCTION STREALIZATION, PRACTICES.
A. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY COTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3:10 4 TONS OF MULCH PER ACRE, SEQURED WITH ANCHORED NETTING 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.
B. ALL DITCHES AND SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR DESIGN FLOW CONDITIONS; AND

CONDITIONS, AND ATTERIOR OF THE WATER OF THE WATER OF THE WORK HAS STOPPED FOR THE MINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHOOT ITEM 304.3.

OFF SITE VEHICLE TRACKING.
THE CONTRACTOR SHALL CONSTRUCT THE STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES.

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS

A. GENERAL

THESE ARE THE GENERAL INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO

LEMENT THE PLAN.
ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
THE SMALLEST PRACTICAL PORTION OF THE SITE WILL BE DENUDED AT ONE TIME. UNDER NO
CIRCUMSTANCES SHALL MORE THAN 5.0 ACRES OF THE PROJECT SITE BE UNSTABILIZED AT
ONE TIME. ONE TIME. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING

ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 1/4 INCH OR ORGATER.

ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDMENT WILL BE REMOVED FROM SILT FENCE OR HAYBALE BARRIERS WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE OR BALE.

ALL DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

TEMPORARY SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND INNIFIALTY ORDWITH.

UNHEALTHY GROWTH.
A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.

A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), WILL BE RESPONSIBLE FOR INSPECTIONS AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES.

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO THE "NH STORMWATER MANUAL, VOL.

THE ENSURY CONTROL PROCEDURES SHALL CONFORM IN THE "NH STORMWATER MANUAL, VOI 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" PREPARED BY COMPREHENSIVE ENVIRONMENTAL INC. AND THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES.

A. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES OR SPECIFICATIONS.

B. THE USE OF SAND FOR THE PURPOSE OF PEDESTRIAN SAFETY AND SAFE DRIVING CONDITION SHALL BE MINIMIZED.

THE USE OF SAND FOR THE FURRUSE OF PEDESTRIAN SAFETY AND SAFE DRIVING CONDITION SHALL BE MINIMIZED. THE OWNER SHALL CLEAN ALL CATCH BASINS, DRAIN MANHOLES AND SWEEP THE PARKING LOT ON AN ANNUAL BASIS.

FILTREXX SILT SOXX

2015-8:42am Bond, Inc. J:\

Feb 05,

APPLICATION
A. FILTREXX SILT SOXX ARE TO BE INSTALLED DOWN SLOPE OF ANY DISTURBED AREA REQUIRING EROSION AND SEDIMENT CONTROL AND FILTRATION OF SOLUBLE POLLUTANTS FROM RUNOFF, SILT SOXX ARE EFFECTIVE WHEN INSTALLED PERPENDICULAR TO SHEET OR LOW

CONCENTRATED FLOW.

INSTALLATION DETAILS

A. SILT SOXX USED FOR PERIMETER CONTROL OF SEDIMENT AND SOLUBLE POLLUTANTS IN STORM RUNOFF SHALL MEET FILTREXX SOXX MATERIAL SPECIFICATIONS AND USE CERTIFIED FILTREXX FILTER MEDIO.

B. CONTRACTOR IS REQUIRED TO BE FILTREXX CERTIFIED AS DETERMINED BY FILTREXX INTERNATIONAL, LLC. CERTIFICATION SHALL BE CONSIDERED CURRENT IF APPROPRIATE IDENTIFICATION IS SHOWN DURING TIME OF BID OR AT TIME OF APPLICATION, LOOK FOR THE FILTREXX INTERNATIONAL FILE.

THE FILTREXX CERTIFIED SEAL.
SILT SOXX WILL BE PLACED AT LOCATIONS INDICATED ON PLANS AS DIRECTED BY THE

SILT SUAX WILL BE FLOWED AT LOCATIONS WITHOUT STATEMENT OF THE SLOPE OR OTHER SICTION OF THE SLOPE OR OTHER SICTION OF THE SLOPE.

SILT SOXX SHOULD BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER DISTURBED AREA. IN EXTREME CONDITIONS (i.e. 2:1 SLOPES), A SECOND SILT SOXX SHALL BE CONSTRUCTED AT THE TOP OF THE SLOPE.

STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE SILT SOXX ON 10 FT CENTERS, USING 2 INCH BY 2 INCH BY 3 FEET WOODEN STAKES. IN THE EVENT STAKING IS NOT POSSIBLE, I.E., WHEN SILT SOXX ARE USED ON PAVEMENT, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SILT SOXX TO HELP STABILIZE DURING

RAINFALL ROUNDET EVENTS.
STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 12 INCHES, AND 8 INCHES FOR CLAY SOILS.

G. LOOSE COMPOST MAY BE BACKFILLED ALONG THE UPSLOPE SIDE OF THE SILT SOXX, FILLING THE SEAM BETWEEN THE SOIL SURFACE AND THE DEVICE, IMPROVING FILTRATION

AND SEDIMENT RETENTION.

IF THE SILT SOXX IS TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERM FILTREXX SILT SOXX ARE NOT TO BE USED IN PERENNIAL, EPHEMERAL, OR INTERMITTENT

SEE DETAIL FOR CORRECT FILTREXX SILT SOXX INSTALLATION.

NTEMANCE
SILT SOXX BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT
LEAST DAILY DURING PROLONGED RAINFALL. THEY SHALL BE REPAIRED IF THERE ARE
ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. ANY REQUIRED REPAIRES SHALL
BE MADE IMMEDIATELY. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE
EDICES. OR IMPOUNDING OF LARGE VOLUMES OF WARTER BEHIND THEM, SEDIMENT
BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.
SHOULD THE FABRIC ON A SILT SOXX BARRIER BECOMPOSE OR SECOME INEFFECTIVE
PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS
NECESSARY. THE FABRIC SHALL BE REPLACED PRIORE.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT, THEY MUST BE

REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD (1/3) THE HEIGHT OF THE BARRIER.
ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT SOXX BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

C. MULCHING

TIMING IN ORDER FOR MULCH TO BE EFFECTIVE, IT MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS.

IN ORDER FOR MULCH 10 BE EFFECTIVE, IT MUST BE IN PLACE PRIOR IO ASSURE THE THERE ARE TWO (2) TYPES OF STANDARDS WHICH SHALL BE USED TO ASSURE THE ASSURE THE AREA OF ANY STORM EVENT. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS, USUALLY BY CONTACTING THE NATIONAL WEATHER SERVICE IN CONCORD, TO HAVE ABEQUIATE WARNING OF SIGNIFICANT STORMS.

8. REQUIRED MULCHING WITHIN A SPECIFIED TIME PERIOD. THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF MACTIVITY ON A AREA, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. PROPESSIONAL JUDGMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS. (SOILERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.

APPLICATION RATE MULCH SHALL BE APPLIED AT A RATE OF BETWEEN 1.5 TO 2 TONS PER ACRE, OR 90 TO 100

MULCH SHALL BE APPLIED AT A RATE OF BETWEEN 1.5 TO 2 TONS PER ACRE, OR 90 TO 100 POUNDS PER 1000 SQUARE FEET. THE MINIMUM MULCH REQUIREMENT, REGARDLESS OF APPLICATION RATE IS THAT SOIL MUST NOT BE VISIBLE. GUIDELINES FOR MINTER MULCH APPLICATION. WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER MAY BE ADDED TO THE MULCH. NO MULCH IS TO BE APPLIED OVER MORE THAN TWO (2) INCHES OF SNOW. IF SNOW DEPTH IS GREATER THAN TWO (2) INCHES IT SHALL BE REMOVED BEFORE MULCHING.

MAINTENANCE
ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK
FOR RILL EROSION. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL
MULCH SHALL BE IMMEDIATELY APPLIED.
EXCELSION MATTING

XCELSION MATTING XCELSION MATTING SHALL BE USED IN PLACE OF MUICH ON ALL SLOPES STEEPER THAN 3-1.

6. SLOPES
ALL SLOPES GREATER THAN 15% DURING THE REGULAR CONSTRUCTION SEASON ARE TO HAVE NETTING OVER MULCH OR COMBINATION EROSION CONTROL MAT USED (MULCH AND NET), THIS APPLIES TO ALL SLOPES GREATER THAN 8% AFTER OCTOBER 1. MULCHING IS REQUIRED OVER TEMPORARY GRASS COVER

APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS

SEEDING...

SEEDING...

A. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE.

B. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED. C. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING

SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.

MANTERANCE EDINGS SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS AFPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAME, ETC.).

PERMANENT MULCHING

TIMING
A. APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS THAT RESIST DECOMPOSITION SUCH
AS WOOD CHIPS OR CRUSHED STONE TO THE SOIL SUBFACE WHERE VEGETATION STABILIZATION
IS EITHER IMPRACTICAL OR DIFFICULT TO ESTABILISH.
B. WINTER STABILIZATION SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS.
CONSIDERATIONS

NSIDERATIONS
PERMANENT MULCHING SHALL BE USED TO STABILIZE CHRONIC EROSION AREAS WHICH RECEIVE
HEAVY FOOT OR VEHICLE TRAFFIC, NOT INTENDED FOR AREAS OF CONCENTRATED FLOWS.
IF WOOD CHIPS ARE USED IN LANDSCAPED AREAS (TREES & SHRUBS), A SUPPLEMENTAL,
APPLICATION OF CHEMICAL FERTILIZER SHOULD BE APPLIED AT A RATE OF TWO POUNDS OF
5-10-5 PER 100 SQUARE FEET OF MULCH,
IF CRUSHED STONE IS USED, A PLASTIC FILTER CLOTH SHALL BE PLACED BETWEEN THE GROUND

AND THE STONE.

AND THE STONE.

SPECIFICATIONS

A. WOOD CHIPS OR AGGREGATE SHALL BE USED ON SLOPES NO STEEPER THAN 3 HORIZONTALLY ON 1 VERTICALLY.

B. PERMANENT MULCH SHALL BE 3 INCHES OR MORE IN DEPTH.

C. WOOD CHIPS SHALL BE APPLIED AT A RATE OF 500-900 POUNDS PER 1,000 SQUARE FEET OR 10-20 TONS PER ACRE. WOOD CHIPS SHALL BE GREEN OR AIR-DRIED AND FREE OF OR-BECTIONABLE COARSE MATERIALS.

AGGREGATE COVER (GRAVEL, CRUSHED STONE OR SLAG) SHALL BE WASHED, 1/4 INCH TO 2 \$ INCHES AND APPLIED AT A RATE OF 9 CUBIC YARDS PER 1,000 SQUARE FEET.

NTENANCE
WOOD CHIPS SHALL BE MONITORED FOR DECOMPOSITION AND NEW APPLICATIONS MADE.
CRUSHED STONE SHALL BE MONITORED FOR WASH OUT AND SUPPING DOWN SLOPE. IF EITHER
OCCULR, NEW MATERIAL SHALL BE PROVIDED ON THE BARREN AREA.

VEGETATIVE PRACTICE

ETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS.

A. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 3

TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE.

FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE. ALL FERTILIZER IS TO BE

LIMITED TO LIME, WOOD ASH, OR LOW PHOSPHATE AND SLOW RELEASE NITIOGEN VARIETIES,

UNLESS A SOIL TEST WARRANTS OTHERWISE.

SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND

SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE

IS FINELY PULLVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE

CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN

4—1/2 POUNDS AND 6—1/2 POUNDS PER INCH OF WIDTH.

CONTORNING TO THE RECOVERED LINES AND STATES THE APPROVED TOLLERS WEIGHING BETWEEN 4-1/2 POUNDS PER INCH OF WIDTH.

SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWNING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN.

IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED, ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL.

DIE SOUTH IN ORE DIRECTION AND THE OTHER HALF AT MIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF MOTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE. THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS SPENDING.

50 LBS/ACRE

100 LBS/ACRE

50 LBS/ACRE

THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEFORD AREAS LINTH ACCEPTED. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED

> GENERAL COVER CREEPING RED FESCUE KENTUCKY BLUEGRASS PERENNIAL RYE GRASS

IN NO CASE SHALL THE WEED CONTENT EXCEED 1 PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTIEMBER IS. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW.

G. DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL) FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TIMCE THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES. H. STORM DRAIN INLET PROTECTION

SACK
SACK SHALL BE INSTALLED WITHIN CATCHBASIN, MAKING SURE EMPTY STRAPS ARE LAID FLAT
OUTSIDE THE BASIN.
SACK SHALL FIT TIGHTLY WITHIN THE BASIN TO PREVENT SEDIMENT FROM GOING THROUGH ANY

GAPS.

C. ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINSTORM AND REPAIRS MADE AS NECESSARY.

NECESSARY.

SEDIMENT SHOULD BE REMOVED FROM THE DEVICES AFTER THE SEDIMENT HAS REACHED A
MAXIMUM OF ONE—THIRD THE DEPTH OF THE TRAP.

SILT SACK SHALL BE REMOVED UPON THE COMPLETION OF PROJECT.

STABILIZED CONSTRUCTION ENTRANCE

SPECIFICATIONS AGGREGATE SIZE: USE TWO (2) INCHES STONE, OR RECLAIMED OR RECYCLED CONCRETE

AGGREGATE THICKNESS: NOT LESS THAN SIX (6) INCHES.

WIDTH: TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF POINTS WHERE INGRESS OR EGRESS OCCURS.

FUINIS WHERE INVIRESS OF EGRESS OCCURS.
LENGTH: AS REQUIRED, BUT NOT LESS THAN FIFTY (50) FEET
GEOTEXTILE: TO BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE, PIPING
OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED.
ORITERIA FOR GEOTEXTILE: THE FABRICS SHALL BE TREVIA SPUNBOND 1135, MIRAFI 600X OR

MAINTENT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERNING STORM DRAINS, DITCHES OR WATERWAYS.

SEDMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES OR WAIEKWAYS.

STRAW,HAM BALES

BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF

ADJACENT BALES TIGHTLY ABUITING ONE ANOTHER.

ALL BALES SHALL BE EITHER WIRE-BOUND OR STRING—THED, BALES SHALL BE INSTALLED SO THAT

BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE

BALES TO PREVENT DETERIORATION OF THE BINDINGS.

THE BARRIER SHALL BE ENTIRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED THE WIDTH

OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF FOUR (4)

INCHES, AFTER THE BALES ARE STAKED AND CHINKED, THE EXCAVATED SOIL SHALL BE BACKFILLD

AGAINST THE BARRIER. BACKFILL SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL

AGAINST THE BARRIER. BACKFILL SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO FOUR (4) INCHES AGAINST THE UPHILL SIDE OF THE BARRIER. IDEALLY, BALES SHOULD BE PLACED TEN (10) FEET AWAY FROM THE TOE OF SLOPE. EACH BALE SHALL BE SCUPELY ANCHORED BY AT LEAST TWO (2) STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST SAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAND BALE TO FORCE THE BALES TOGETHER. STAKES OR REBARS SHALL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES.

INTO THE GROUND TO SECURELY ANCHOR THE BALES.

THE GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY WEDGING) WITH STRAW/HAY TO PREVENT WATER FROM ESCAPING BETWEEN THE BALES.

ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINSTORM AND REPAIRS MADE AS

NECESSARY.

SEDIMENT SHOULD BE REMOVED FROM THE DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE—THIRD THE DEPTH OF THE TRAP, OF ONE—THIRD THE DEPTH OF THE TRAP.

HAYBALES SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING
DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

TIMING OF CONTROLS AREA TO THE INTELL THE BEEN CONTROLS.

THE MAXIMUM AREA TO BE DISTURBED AT ONE TIME SHALL BE KEPT UNDER FIVE (5) ACRES. A PHASING PLAN DESCRIBING THE AREAS TO BE DISTURBED SHALL BE SUBMITTED TO THE DESIGN ENGINEER AND INIDES. AN INDEPENDENT MONITORING COMPANY SHALL BE HIRED BY THE CONTRACTOR TO MONITOR ALL EROSION CONTROL OF DEVICES.

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES THE EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCING ANY CLEARING OR GRADING OF THE SITE. STRUCTURAL CONTROLS SHALL BE INSTALLED CONCURRENTLY WITH THE APPLICABLE ACTIVITY. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN TWENTY ONE (21) DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN FOURTEEN (14) DAYS OF THE LAST DISTURBANCE. WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF ANY WETLAND OR STREAM, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OF THE MORE TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY (IN AN AREA, SILT FENCES AND HAYBALE BARRIERS AND MAYBALE BARRIERS AND MAYBALE BARRIERS). AND ANY EARTH/DIKES WILL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED

WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES.
ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER.
NO CONSTRUCTION WASTE MATERIALS WILL BE DURINED ON SITE. ALL PERSONNEL WILL BE
INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE

HAZARDIQUS WASTE
ALL HAZARDOUS WASTE
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL
OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN
THESE PRACTICES BY THE SUPERINTENDENT.
SANITARY WASTE
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER
WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION

A. MATERIAL MANAGEMENT PRACTICES
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE
THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES
DURING CONSTRUCTION TO STORWAYER RUNOFF:

GOOD HOUSEKEEPING:
OOD HOUSEKEEPING:
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE
CONSTRUCTION PROJECT:
A. AN EFFORT WILL BE MADE TO STORE ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO
DO THE JOB.

AN EFFORT WILL BE WADE TO STOKE THE BESTORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND NINDRAGIA OF MATERIALS.

DISPOSAL OF MATERIALS.
SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE

WHENEVER POSSIBLE ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

HAZARDOUS PRODUCTS:
THE FOLLOWING PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH

IRDOUS MATERIALS: PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT PRODUCTS WILL BE REFIRM THAN COMMITTEE BY THE RESEALABLE.
ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION.
SURPLUS PRODUCT THAT MUST BE DISPOSED OF WILL BE DISCARDED ACCORDING TO

C. SURFILLS PRODUCT THAT MUST BE DISPUSED OF WILL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.

PRODUCT SPECIFICATION PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:
PETROLEUM PRODUCTS:
ALL ON SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO BETWIEF LEAKAGE DETROLEUM DEPONICES WILL BE STORED IN TROUT V.

ALL ON SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE. PETROLEUM PRODUCTS WILL BE STORDE IN TOGHTY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS. ONCE APPLIED FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED OF ENCLOSED TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS:
ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE.
EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE
DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND
LOCAL REQULATIONS.

IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

IN ADUITION 10 GOOD HOUSERPHING AND MATERIAL MANAGEMENT PYACTICES DISCUSSED IN THE PREVAIOUS SECTION THE FOLCOMING PRACTICES WILL BE TOLLOWED FOR SPILL PREVENTION AND CLEANUP.

1. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAMDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

3. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

4. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

5. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RECURRING AND HOW TO CLEANUP THE SPILL IF IT RECURS. A DESCRIPTION OF THE SPILL, ITS CAUSE, AND THE CLEANUP MEASURES WILL BE INCLUDED. THE SPILL PREVENTION AND CLEANUP COORDINATOR.

7. THE SITE SUPPERITIONEDINT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

8. VEHICLE FULLING AND MAINTENANCE PRACTICE:

1. EFFORTS SHOULD BE MADE TO PERFORM EQUIPTMENT/VEHICAL FULLING AND MAINTENANCE AT AN OFF-SITE FACILITY.

2. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY.

3. IF POSSIBLE KEEP AREA COVERED.

4. KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA.

5. VEHICLES SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.

1ST CONTROL.

5. CONTROL OF SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.

DUST CONTROL:
THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.
DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EMPOSED
AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING. DUST CONTROL
MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE OF

CONCRETE WASHOUT AREA:

A. THE CONCRETE CONTRACTOR SHOULD BE ENCURAGED WHERE POSSIBLE, TO USE WASHOUT FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY.

B. IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANDLE ANTICIPATED WASHOUT WATER.

C. WASHOUT AREAS SHOULD ALSO BE PROVIDED FOR PAINT AND STUCCO OPERATIONS.

D. ATTEMPTS SHOULD BE MADE TO LOCATE WASHOUT AREA A LEAST 50 YARDS AWAY FROM STORM DRAINS AND WATER WAYS WHENEVER POSSIBLE.

E. INSPECT WASHOUT FACILITIES DAILLY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.

ALLOWABLE NON-STORMWATER DISCHARGES:
A. DISCHARGES FROM FIRE-FIGHTING ACTIVITIES

DISCHARGES PROM FILE-TENTIAL FIRE HYDRANT FLUSHINGS WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED

WATER USED TO CONTROL DUST
POTABLE WATER INC. UNCONTAMINATED WATER LINE FLUSHINGS
ROUTINE EXTERNAL BUILDING WASH DOWN -NO DETERGENTS
PAVEMENT WASH WATERS -NO SPILLS OR DETERGENTS

UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATE UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATE UNCONTAMINATED GROUND WATER OR SPRING WATER FOUNDATION OR FOOTING DRAINS - NOT CONTAMINATED UNCONTAMINATED EXCAVATION DEWATERING LANDSCAPE RRINGATION

EL DAVISORPE INSTIGLATION

BASTING NOTES

I. IF MORE THAN 5000 CUBIC YARDS ARE TO BE BLASTED: IDENTIFY DRINKING WATER WELLS LOCATED WITHIN 2000 FEET OF THE PROPOSED BLASTING ACTIVITIES. DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE PLAN MUST INCLUDE PRE AND POST BLAST WATER QUALITY MONITORING AND BE APPROVED BY NHOES PRIOR TO INITIATING BLASTING. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY NHOES.

2. THE FOLLOWING BEST MANAGEMENT PROCEDURES FOR BLASTING SHALL BE COMPLIED WITH

LOADING PRACTICES.
THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED. LOWED:
DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE
BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAMTIES, AND FAULT
ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE
BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR

BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.

SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL.

LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.

LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE PRIMINENMENT.

CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.

6. EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLLIMIN LOAD TO PROMOTE COMPILETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLLIMIN RISE NEED TO BE ATTENDED TO.

EXPLOSIVE SELECTION.

THE FOLLOWING BMFS SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHELL CYPLOSIVES ARE USED:

CONTAMINATION WHELL CYPLOSIVES ARE USED:

SAFE SILAST EXECUTION.

THE PROPERTY OF THE PROPERTY OF THE PROPERTY WATER RESISTANCE FOR EXPLOSIVE SHALL BE SELECTED THAT HAY THE APPROPRIATE WATER RESISTANCE FOR EXPLOSIVE PROPERTY SHALL BE SELECTED. THAT HAY THE APPROPRIATE WATER RESISTANCE FOR

SAFE BLAST EXECUTION.

EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE

PRODUCT UPON GROUNDWATER.

PREVENTION OF MISFIRES. APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIRES.

MUDIC HIM MANAGEMENT.

MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES: REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.

MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER.

SPILL PREVENTION MEASURES AND SPILL MITIGATION.

SPILL PREVENTION AND SPILL MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND OTHER RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT

THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:

a. STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE: SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;

c. LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY:

I. INSPECT STORAGE AREAS WEEKLY;
COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;

WHEREVER POSSIBLE, KEEP REQULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS, AND

SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.

THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:

EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;

b. PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS; C. HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS: USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES, AND
PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.

e. PERFORM TRANSFERS OF REQULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE. THE TRANNING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGILATED SUBSTANCES. FLELING AND MAINTENANCE OF EXCAVATION. EARTHMOVING AND OTHER CONSTRUCTION PELATED COUIPMENT WILL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL, SERVICES (NOTE THESE REQUIREMENTS ARE SUMMARIZED IN WO-DWIGE-22-6 BEST MANAGEMENT PRACTICES FOR FULLING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT" OR ITS SUCCESSOR DOCUMENT, (SEE MAINTENANCE) OF EXCAVATION AND EARTHMOVING HITP: //DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF.

Tighe&Bond . Consulting Engineers www.tighebond.com



Granite Ridge Development

Frontage Road

District

Rochester. New Hampshire

TΔ1	AT HZ	DV	27	201	5
JAI	YUE	WN I	41.	20 I	v

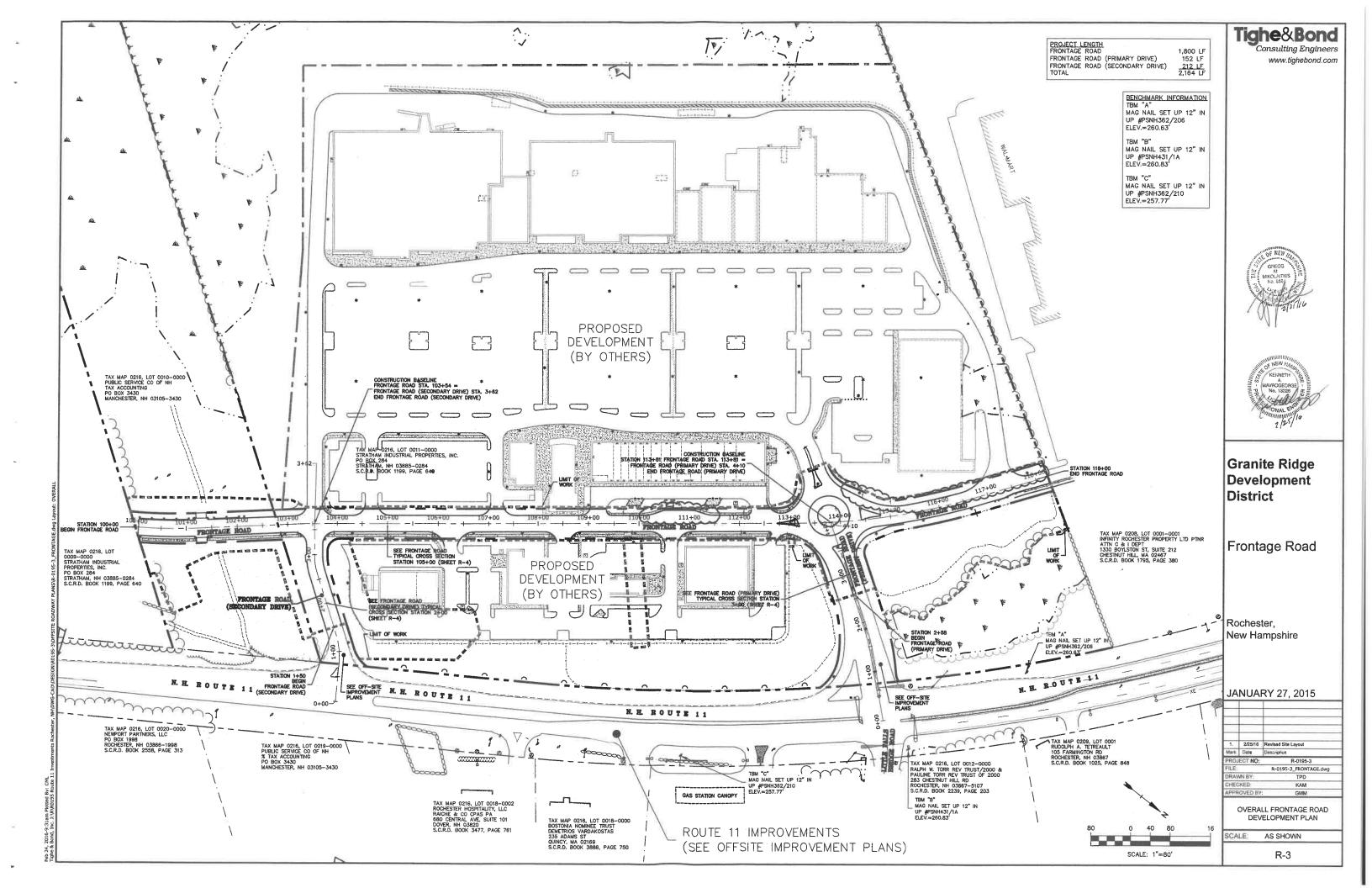
Mark	Date	Description
PROJ	ECT NO	R-0195-3
FILE:		R-0195-3_FR_DETAILS.DWG
DRAV	VN BY:	TPD
CHEC	KED:	KAM
APPR	OVED B	Y: GMM

EROSION CONTROL NOTES AND DETAILS SHEET

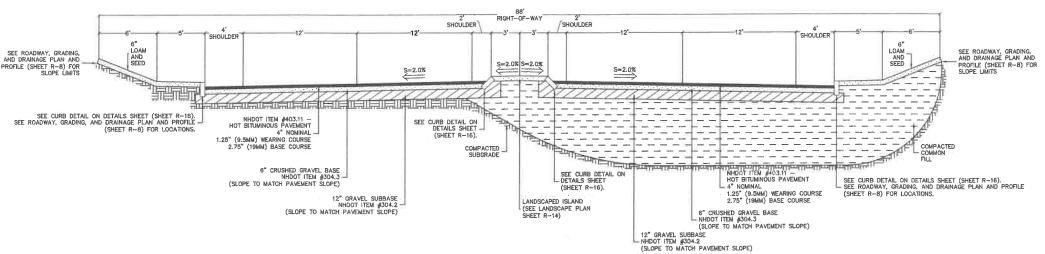
SCALE:

R-2

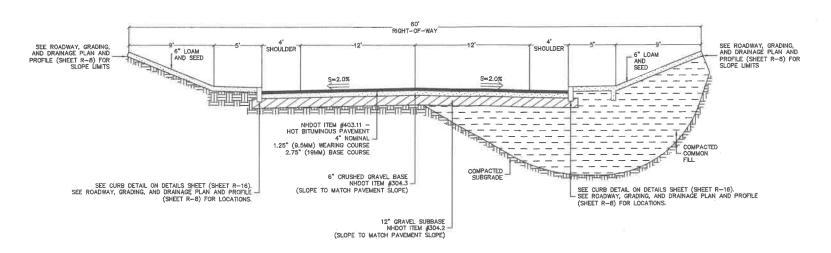
AS SHOWN



FRONTAGE ROAD TYPICAL CROSS SECTION STATION 105+00 NOT TO SCALE



FRONTAGE ROAD (PRIMARY DRIVE) TYPICAL CROSS SECTION STATION 3+00 NOT TO SCALE



FRONTAGE ROAD (SECONDARY DRIVE) TYPICAL CROSS SECTION STATION 2+00 NOT TO SCALE

Tighe&Bond
Consulting Engineers
www.tighebond.com





Granite Ridge Development District

Frontage Road

Rochester, New Hampshire

JANUARY 27, 2015

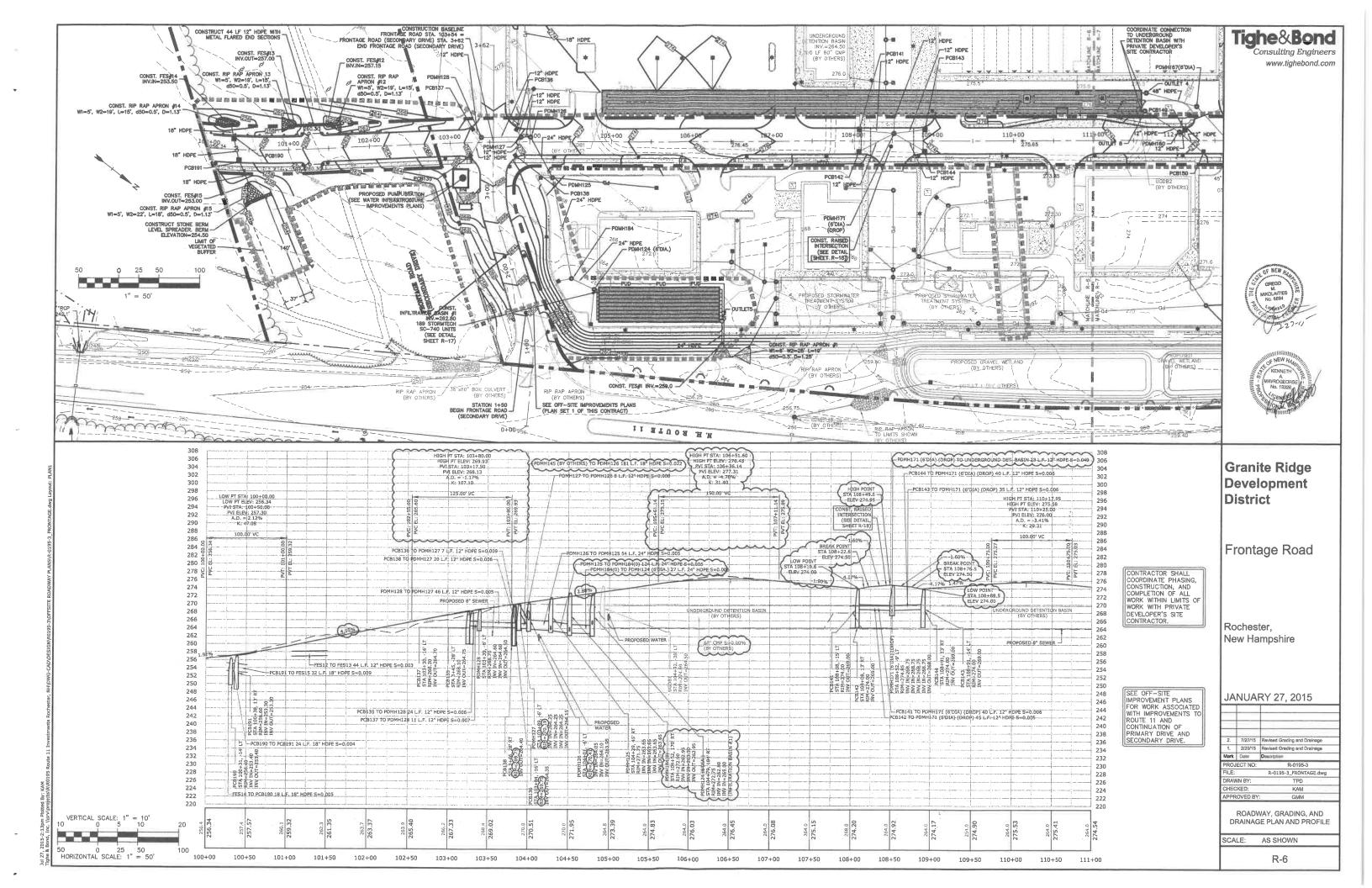
Mark	Date	Description
PROJ	ECT NO:	R-0195-3
FILE:		R-0195-3_FR_DETAILS.DWG
DRAV	/N BY:	TPD
CHEC	KED:	KAM
APPR	OVED BY	GMM

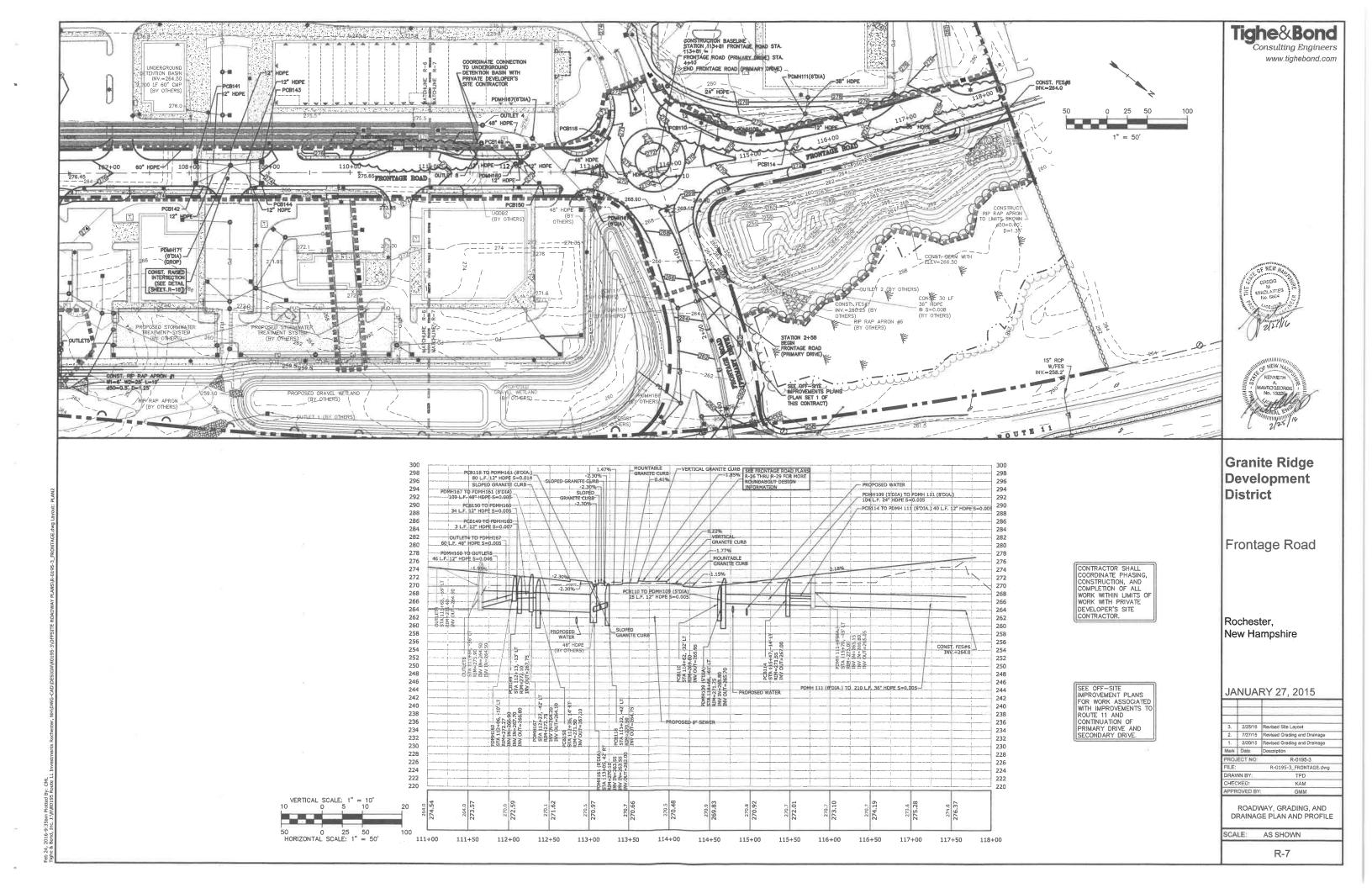
TYPICAL CROSS SECTIONS

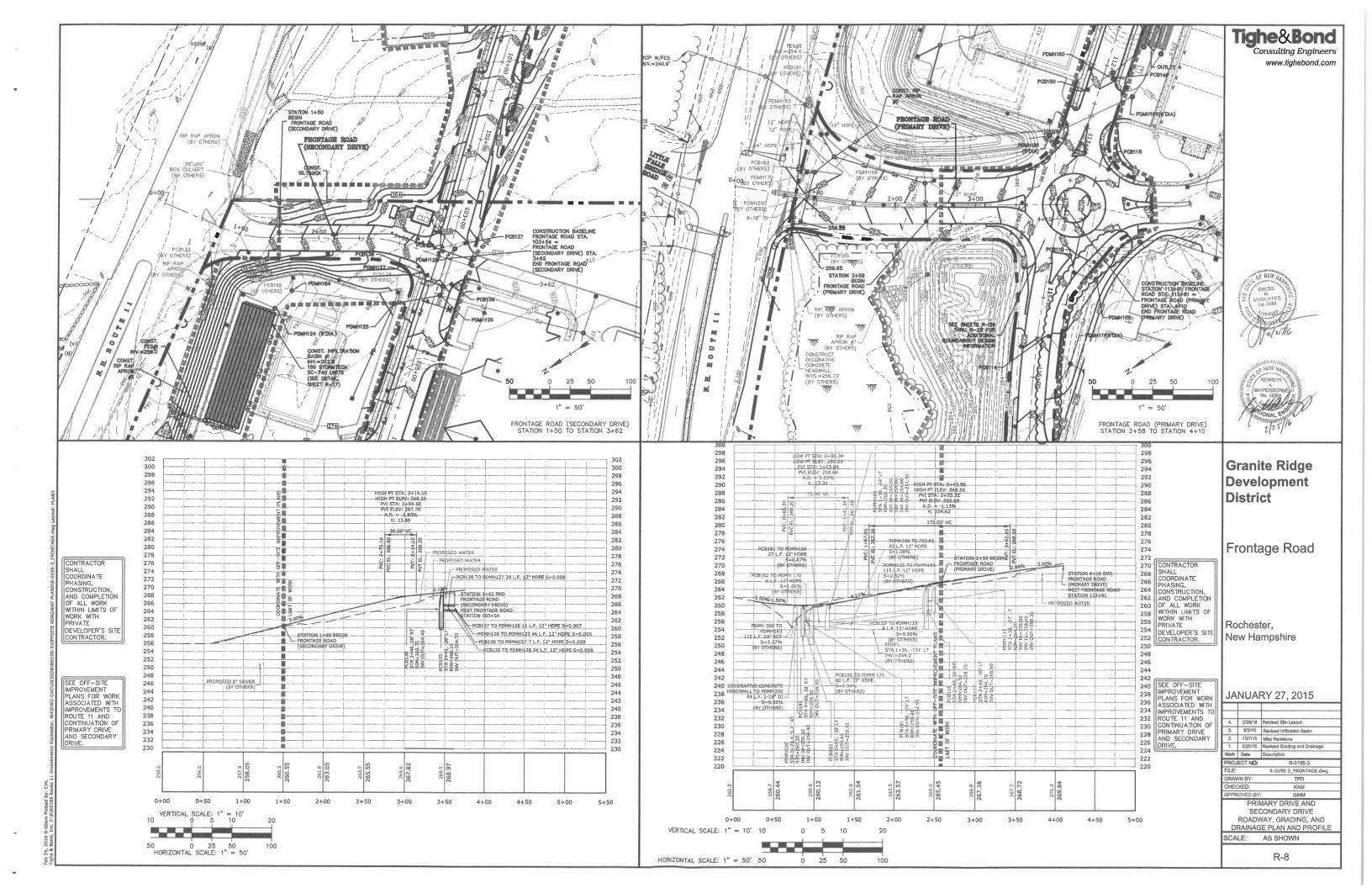
SCALE: AS SHOWN

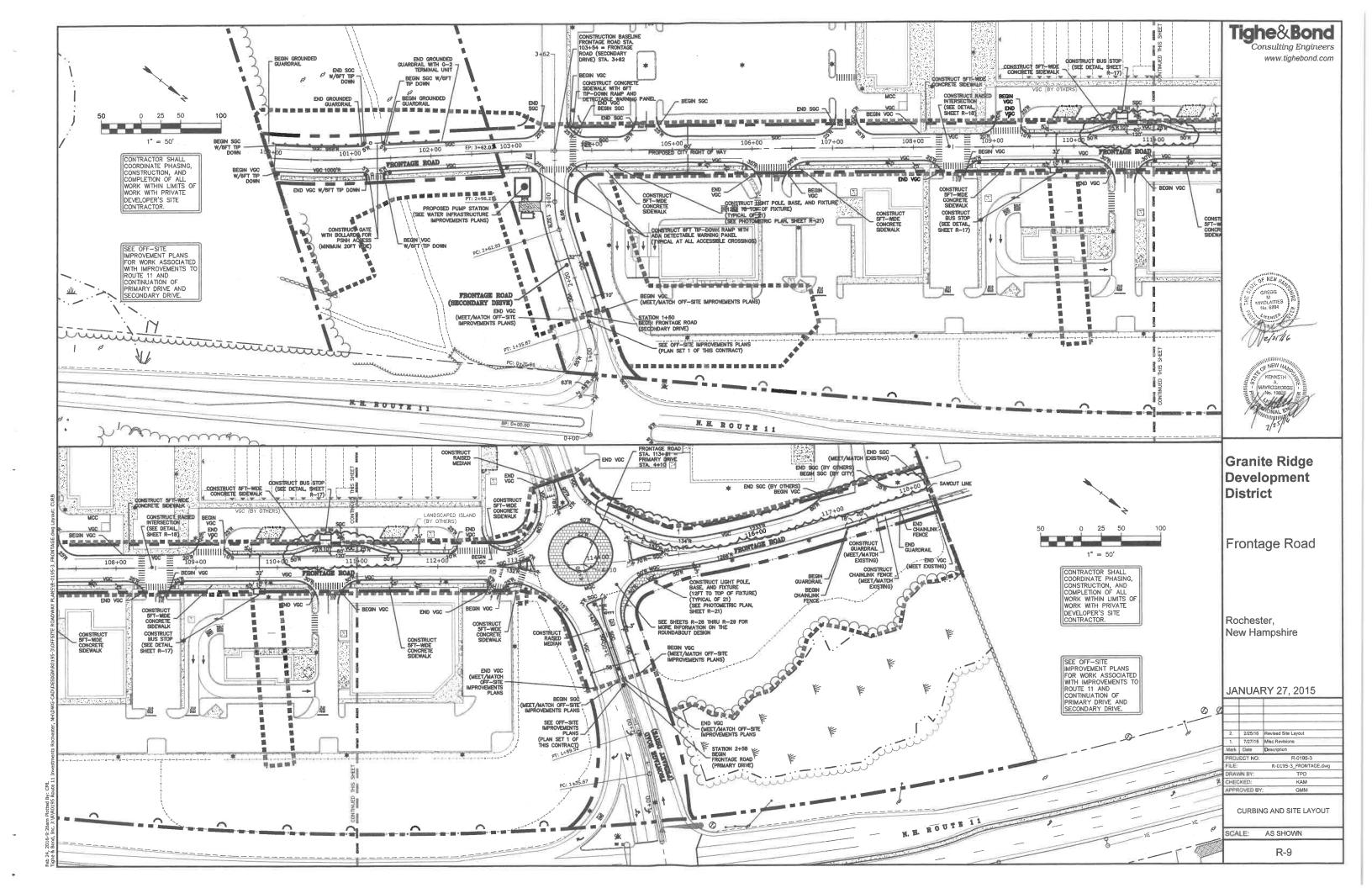
R-4

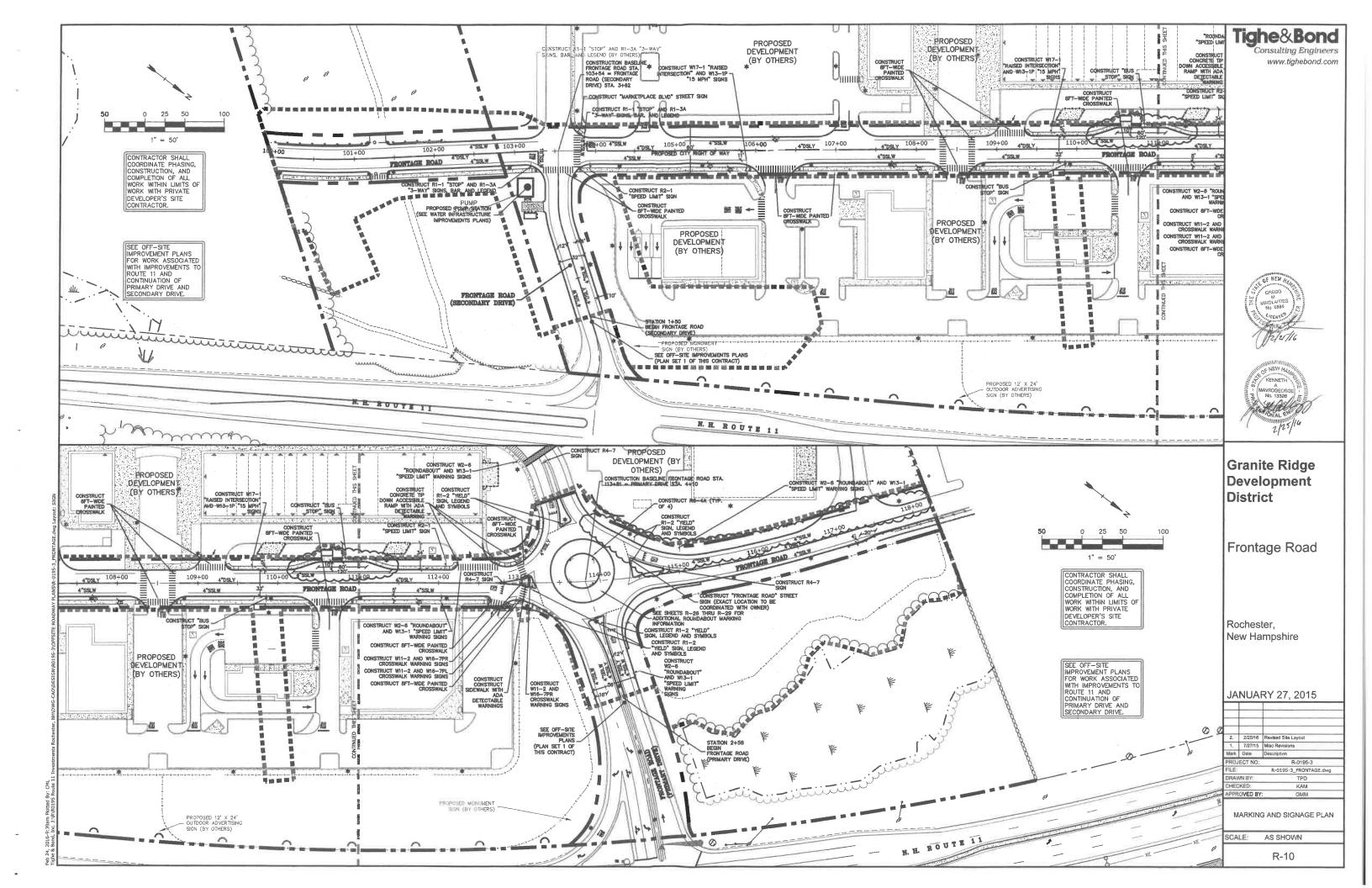
Feb 05, 2015-8:43am Plotted By: sir

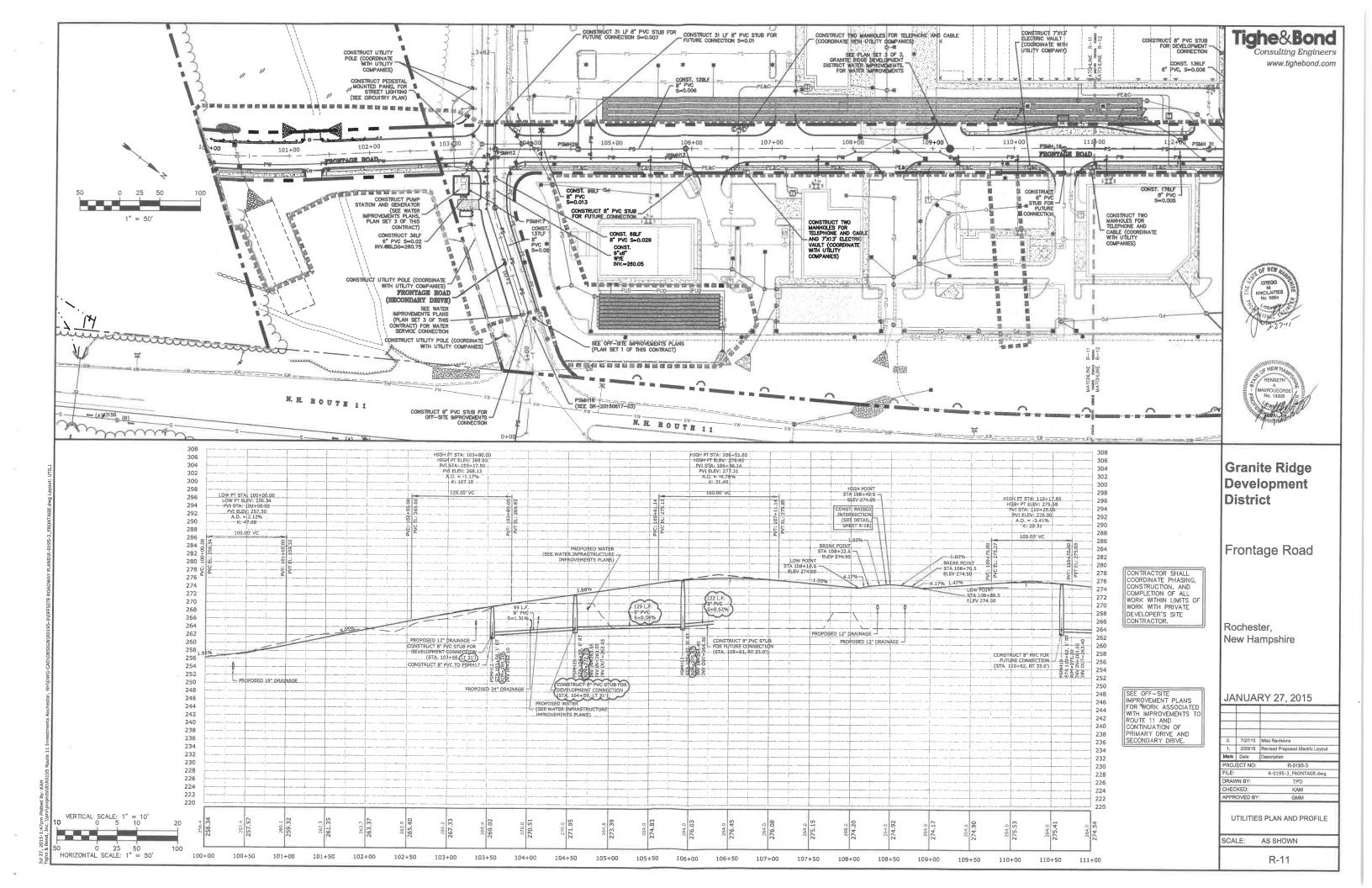


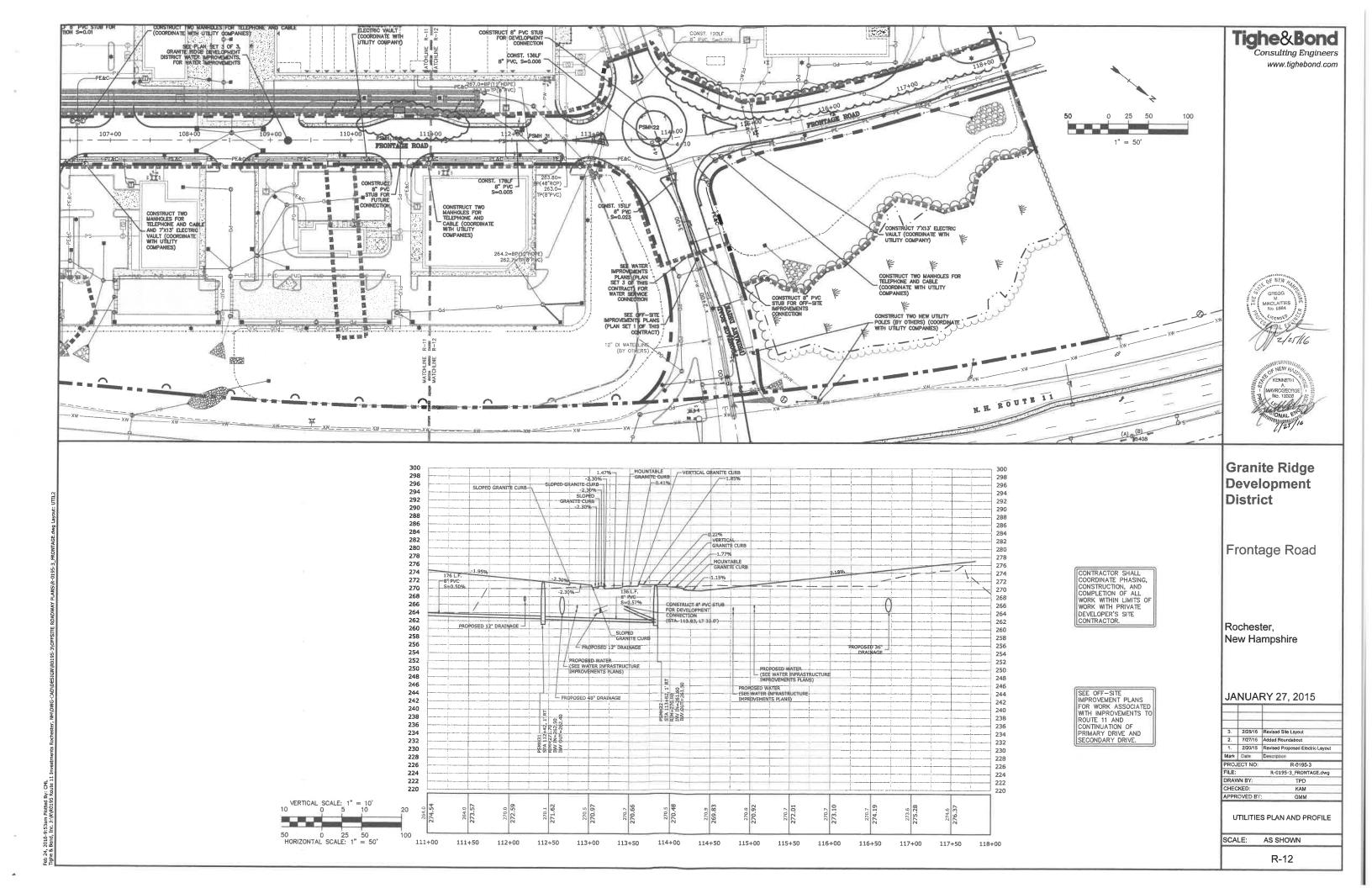


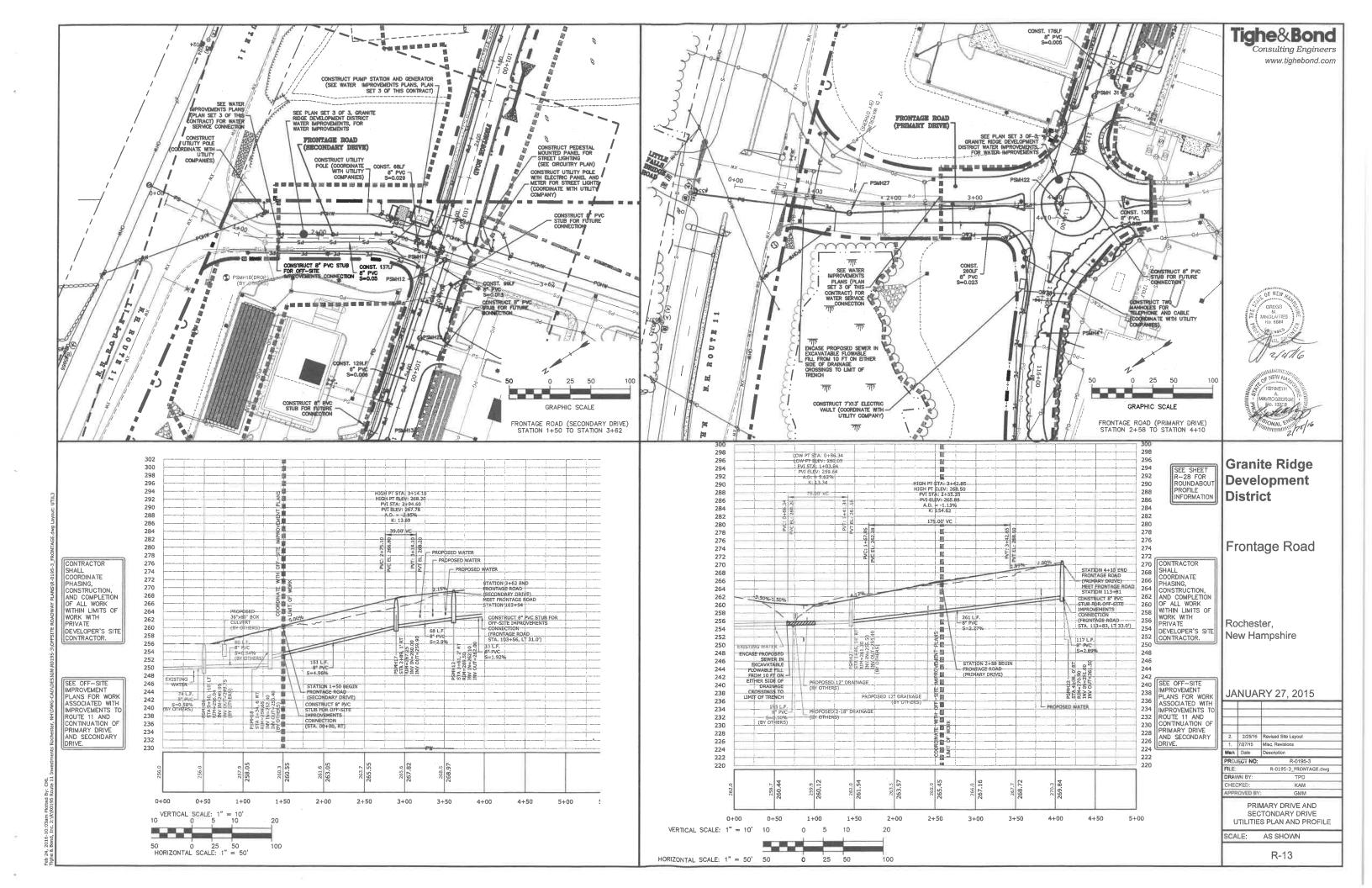


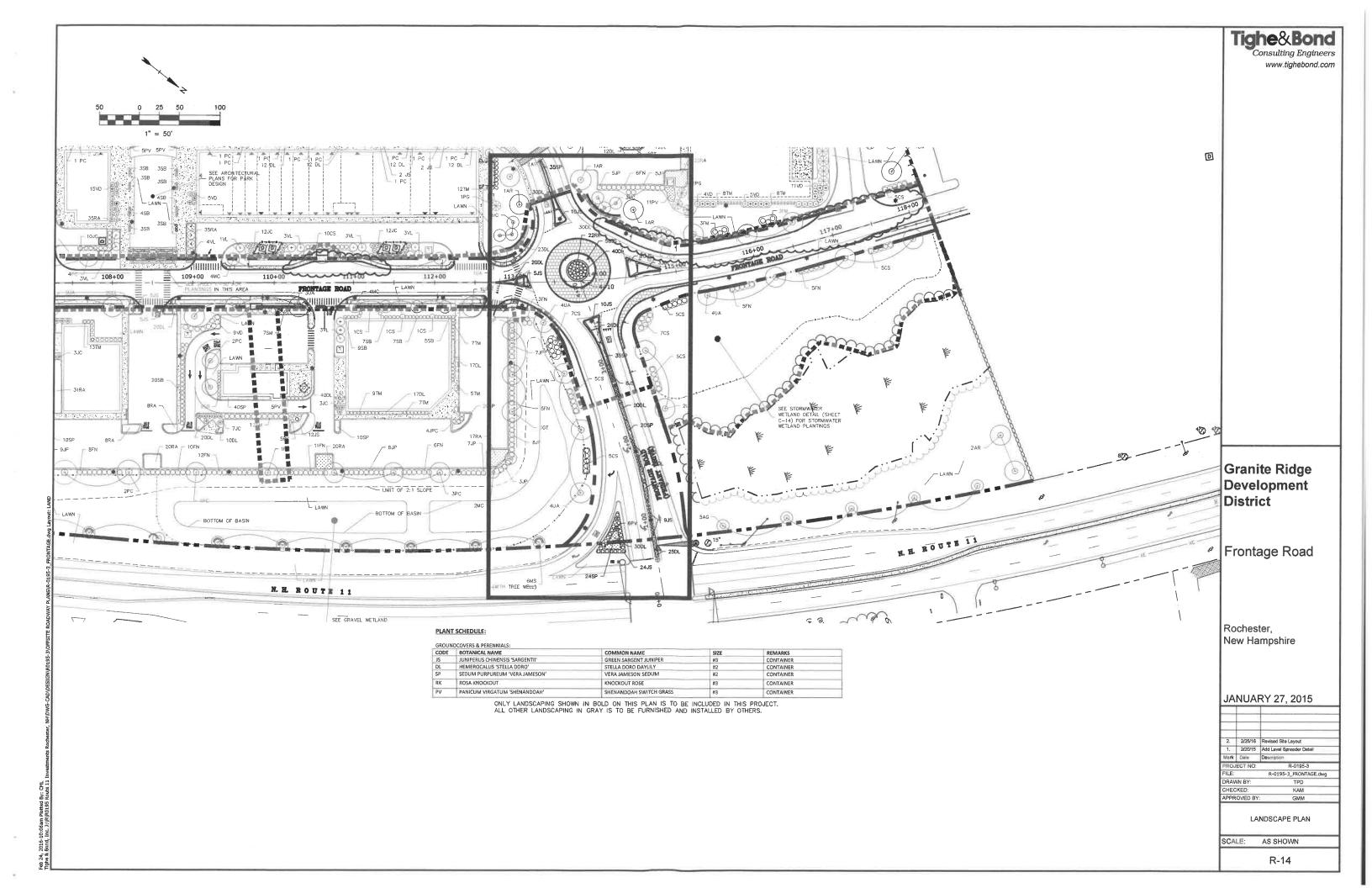


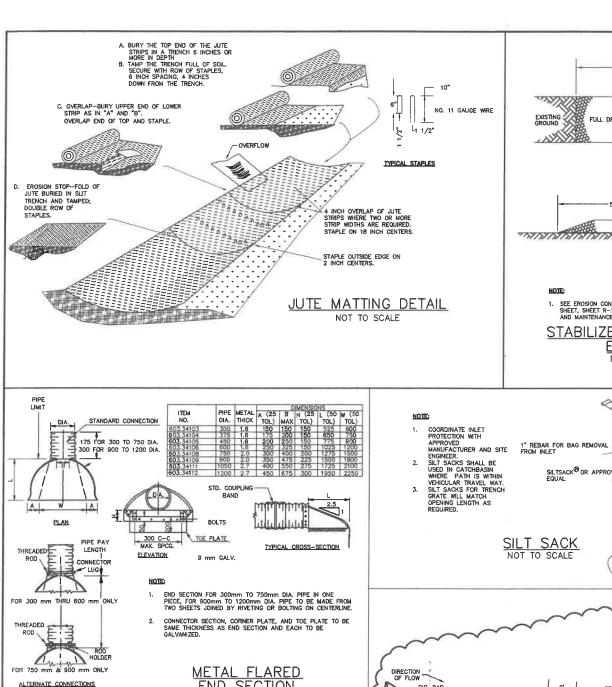


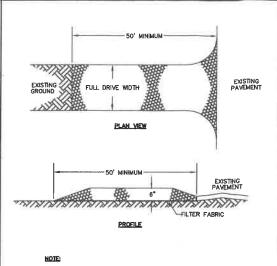






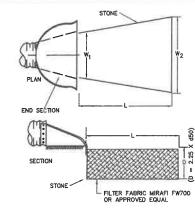






SEE EROSION CONTROL NOTES AND DETAILS SHEET, SHEET R-2, FOR MATERIAL, INSTALLATION, AND MAINTENANCE REQUIREMENTS.

STABILIZED CONSTRUCTION **ENTRANCE** NOT TO SCALE



-1" REBAR FOR BAG REMOVAL FROM INLET

STONE SIZE AND MAT DIMENSIONS AS SHOWN ON ROADWAY, GRADING, AND DRAINAGE PLAN AND PROFILE, SHEETS R-6, R-7, AND R-8.

STONE SHALL CONSIST OF SUB-ANGULAR FIELD STONE OR ROUGH UNHEWN QUARRY STONE OF APPROXIMATELY RECTANGULAR SHAPE. FLAT OR ROUND ROCKS ARE NOT ACCEPTABLE. THE STONE SHALL BE HARD AND OF SUCH QUALITY THAT IT WILL NOT DISINTEGRATE ON EXPOSURE TO WATER OR WEATHERING, BE CHEMICALLY STABLE AND IT SHALL BE SUITABLE IN ALL OTHER RESPECTS FOR THE PURPOSE INTENDED. THE BULK SPECIFIC GRAVITY (SATURATED SURFACE-DRY BASIS) OF THE INDIVIDUAL STONES SHALL BE AT LEAST 2.5. THE STONE SHALL BE COMPOSED OF A WELL-GRADED MIXTURE DOWN TO THE ONE-INCH SIZE PARTICLE SUCH THAT 50 PERCENT OF THE MIXTURE BY WEIGHT SHALL BE LARGER THAN THE D50 SIZE SPECIFIED. A WELL-GRADED MIXTURE IS DEFINED AS A MIXTURE COMPOSED PRIMABILLY OF THE LARGER STONE SIZE BUT WITH A SUPFICIENT MIXTURE OF OTHER SIZES TO FILL THE PROGRESSIVELY SMALLER VOIDS BETWEEN THE STONES. THE DIAMETER OF THE LARGEST STONE SIZE BUT WITH A SUPFICIENT MIXTURE OF OTHER SIZES TO FILL THE PROGRESSIVELY SMALLER VOIDS BETWEEN THE STONES. THE DIAMETER OF THE LARGEST STONE SIZE BUT WITH A SUPFICIENT MIXTURE OF OTHER SIZES TO FILL THE PROGRESSIVELY SMALLER VOIDS BETWEEN THE STONES. THE DIAMETER OF THE LARGEST STONE SIZE BUT WITH A SUPFICIENT MIXTURE OF

WATER FLOW

2" X 2" WOODEN STAKE-

WORK AREA

(12" - 18")

STONE APRON DETAIL NOT TO SCALE

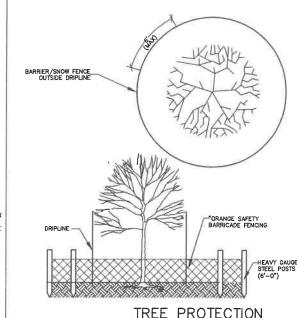
SILT SOXX (OR APPROVED EQUAL)

NOT TO SCALE

10' LINEAL SPACING

AREA TO BE PROTECTED

AREA TO BE PROTECTED

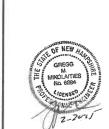


2.35"

0 0

0 0

0 0



Tighe&Bond

Consulting Engineers www.tighebond.com



Granite Ridge Development District

Frontage Road

Rochester,

VARIES PER MANUE

0 0 0

0 0 Oi

CURB RAMPS MUST HAVE A DETECTABLE WARNING FEATURE EXTENDING THE FULL WIDTH AND DEPTH OF THE RAMP, A HEIGHT OF NOMINAL 0.2 INCHES, THE DETECTABLE SURFACE MUST CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCHES, THE TEXTURE OF THE DETECTABLE WARNING FEATURE MUST CONTRAST VISUALLY WITH THE SURROUNDING SURFACES (EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT).

2.35" 2.35

(EITHER PATTERN IS ACCEPTABLE)

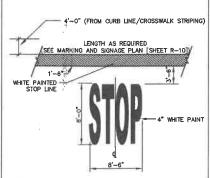
DETECTABLE WARNING SURFACE

TO SCALE

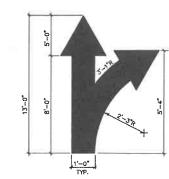
5.0% MAX SLOPE IN TRAVEL DIRECTION

PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS AS SHOWN ON MARKING AND SIGNAGE PLAN, SHEET R-10.
ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT MEETING THE REQUIREMENTS OF NHDOT SECTIONS G32 AND 708 AND AASHTO M247-77 AND SHALL

INCLUDE RETROREFELCTIVE GLASS BEADS (TYPE 1 PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.



PAYEMENT MARKINGS TO BE INSTALLED IN LOCATIONS AS SHOWN OM MARKING AND SIGNAGE PLAN. SHEET R-10. ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT MEETING THE REQUIREMENTS OF INHOOT SECTIONS 632 AND 708 AND ASHTO M247-77 AND SHALL INCLUDE RETRORFECTIVE GLASS GEADS (TYPE 1). PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.



PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS AS SHOWN ON MARKING AND SIGNAGE PLAN, SHEET R-10. ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT MEETING THE REQUIREMENTS OF NHOOT SECTIONS 632 AND 708 AND AASHTO M247-77 AND SHALL INCLUDE PETPOREST (COL). RETROREFELCTIVE GLASS BEADS (TYPE 1). PAINT SHALL BE APPLIED AS SPECIFIED BY

PAINTED TRAFFIC ARROW

New Hampshire

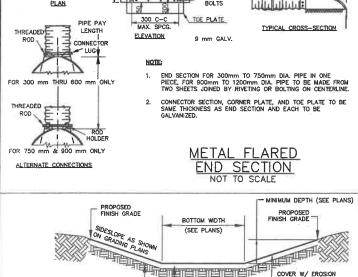
JANUARY 27, 2015

1.	2/20/15	Add Level Spreader Detail
Mark	Date	Description
PROJ	ECT NO:	R-0195-3
FILE:		R-0195-3_FR_DETAILS.DWG
DRAV	VN BY:	TPD
CHEC	KED:	KAM
APPR	OVED BY	: GMM

DETAILS SHEET

AS SHOWN

R-15



NOTE: THE FOUNDATION AREA OF THE WATERWAY SHALL BE CLEARED AND GRUBBED OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL, MATERIALS REMOVED SHALL BE DISPOSED OF SO THEY WILL NOT INTERFERE WITH THE CONSTRUCTION OR PROPER FUNCTIONING OF THE WATERWAY.

THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND, CROSS SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA. THE WATERWAY SHALL BE FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.

6" LOAM & SEED

- THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND, CROSS SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA. THE WATERWAY SHALL BE FREE OF IRREGULARITES WHICH WIL MPEDE NORMAL FLOW.

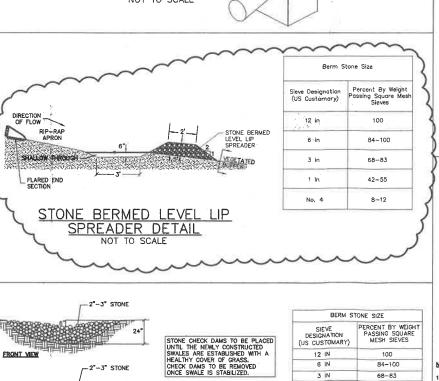
 EARTH FILLS REQUIRED TO MEET SUBGRADE REQUIREMENTS BECAUSE OF OVER EXCAVATION OR TOPOGRAPHY SHALL BE COMPACTED TO THE SAME DENSITY AS THE SURROUNDING SOIL TO PREVENT UNEQUAL SETTLEMENT THAT COULD CAUSE DAMAGE TO THE COMPLETED WATERWAY. EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.

 CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE EROSION AND AIR AND WATER POLLUTION. ALL APPROPRIATE STATE AND LOCAL LAWS AND REGULATIONS SHALL BE COMPLIED WITH FOR INSTALLATION.

 VEGETATION SHALL BE ESTABLISHED IN THE SWALE PRIOR TO ALLOWING STORMWATER RUNOFF TO FLOW THROUGH THE SWALE.

 MINIMARMANCE OF THE VEGETATION IN THE GRASSED WATERWAY IS EXTREMELY IMPORTANT IN ORDER TO PREVENT FILLING, EROSION, AND FAILURE OF THE WATERWAY. MOWING SHOULD BE DONE FREQUENTLY ENOUGH TO CONTROL ENCROCAMENT OF WEEDS AND WOODY VEGETATION AND TO KEET THE GRASSES IN A VIGOROUS CONDITION. THE VEGETATION SHOULD NOT BE MOWED TOO CLOSELY SO AS TO REDUCE THE EROSION RESISTANCE IN THE WATERWAY. THE WATERWAY SHOULD BE INSTEAD AND THE SET THE GRASSES IN A VIGOROUS CONDITION. THE VEGETATION SHOULD NOT BE MOWED TOO CLOSELY SO AS TO REDUCE THE EROSION RESISTANCE IN THE WATERWAY. SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE THE CONDITION OF THE WATERWAY. AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND REVEGETATED AND RECESSARY TO PREVENT FURTHER DETERIORATION.

GRASSED SWALE NOT TO SCALE



L= THE DISTANCE WHERE THE ELEVATION OF

STONE CHECK DAM

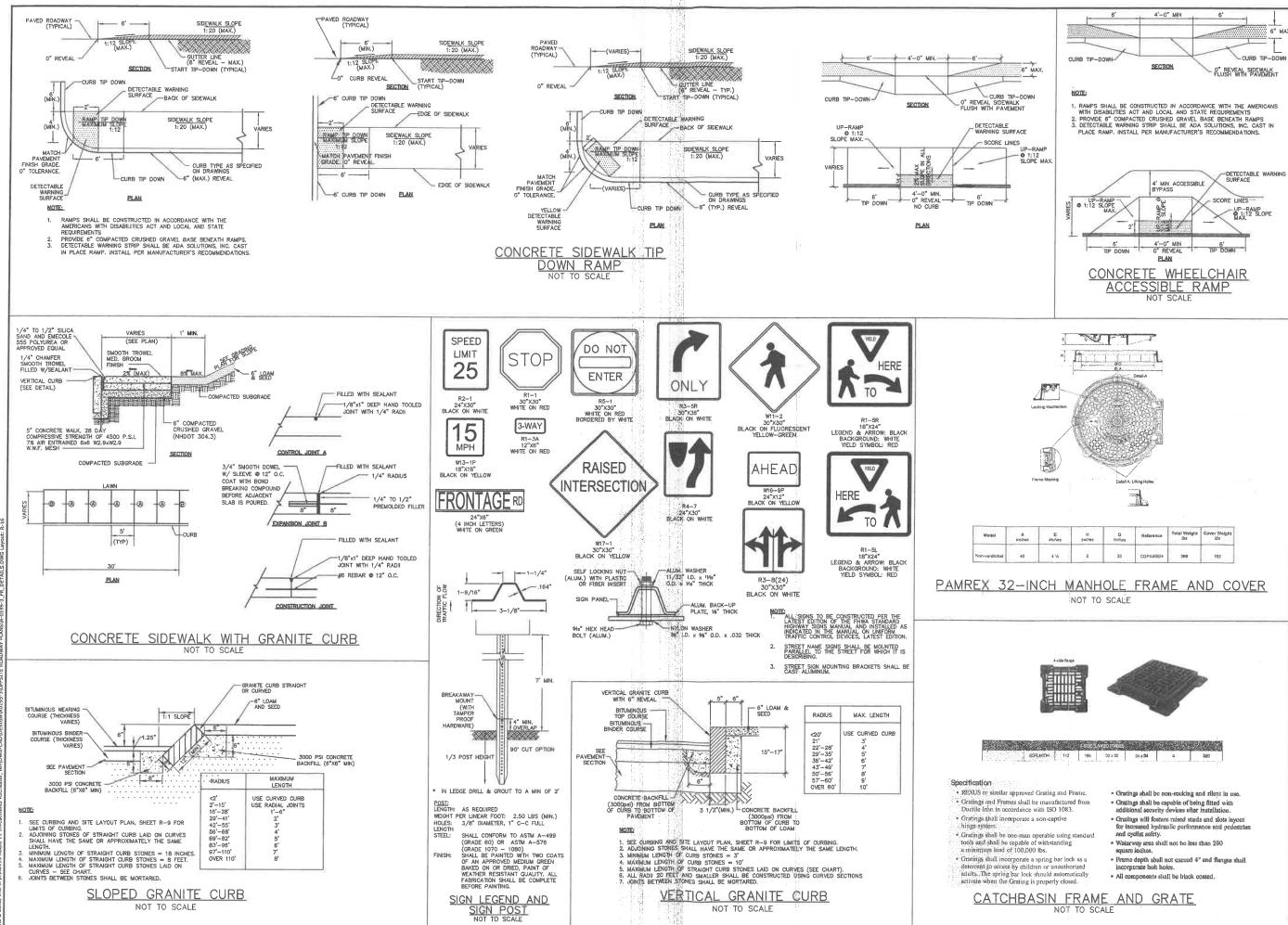
SILTSACK® OR APPROVED EQUAL

2.0% MAX CROSS SLOPE NOTE:

1 IN 42-55 NO. 4 8-12

CROSSWALK STRIPING
NOT TO SCALE

STOP BAR AND LEGEND
NOT TO SCALE



Tighe&Bond

www.tighebond.com





Granite Ridge Development District

Frontage Road

Rochester, New Hampshire



R-0195-3_FR_DETAILS.DWG RAWN BY TPD KAM

DETAILS SHEET

SCALE: AS SHOWN

R-16

