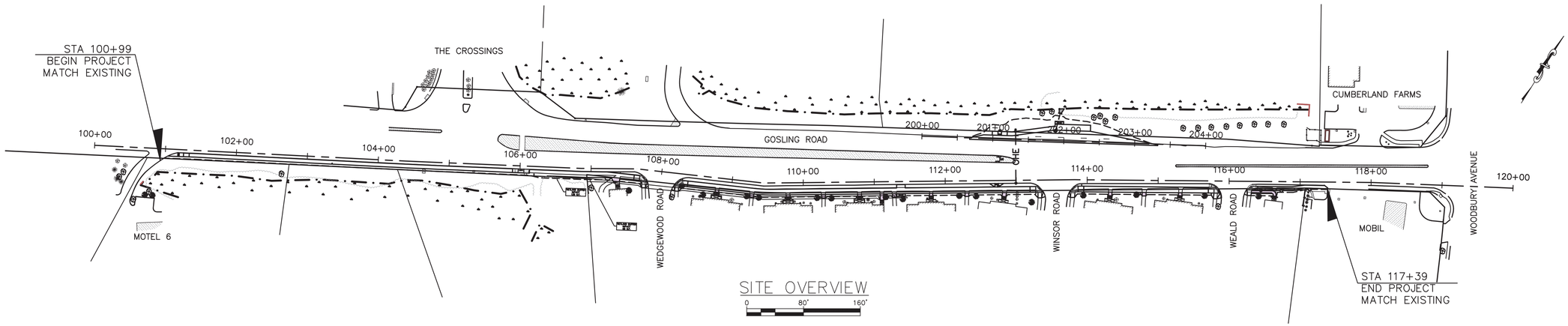
City Of Portsmouth, NH

Gosling Road

Pedestrian, Bike & Related Improvements

Final Plans For Bidding

August 2016



SITE OVERVIEW

0 80' 160'

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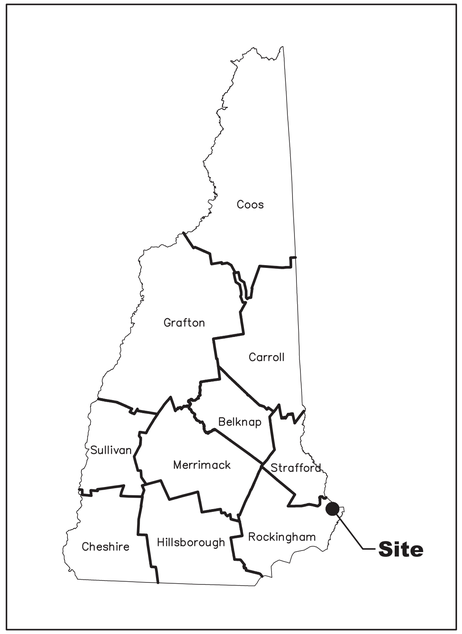

Locus Plan

Prepared For:

City of Portsmouth, New Hampshire
Community Development Department
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Prepared By:

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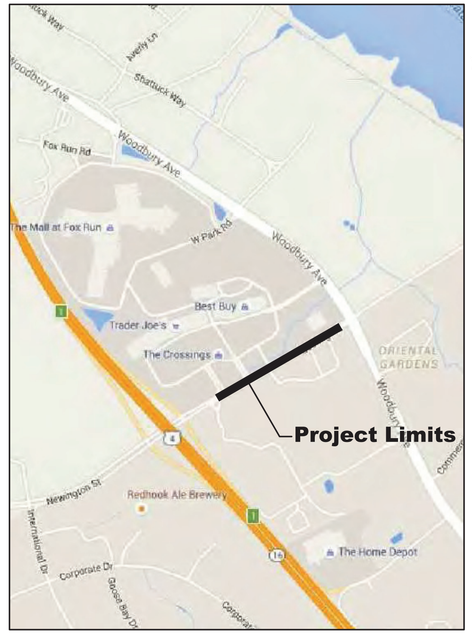
STATE OF NEW HAMPSHIRE
DANIEL HUDSON
No. 10522
REGISTERED PROFESSIONAL ENGINEER
8/19/16



Project Locations

General Construction Notes:

1. All work shall conform with current City of Portsmouth and NHDOT Standard Specifications and details. For standard plans, see "Standard Plans for Road and Bridge Construction" dated 2016 (a bound book).

2. The Engineer shall be defined as the Resident Engineer/Owner's Representative, acting directly, or through, his duly authorized representatives on behalf of the City of Portsmouth.

3. The Contractor shall locate, protect and repair (if damaged) all existing utility mains and services. The locations of known gas, water, and sewer mains shown on these drawings are approximate. Existing gas, water, and sewer service laterals may not be shown and the Contractor should anticipate their existence. The Contractor should consider conflicts, hand excavation, and decrease in production when preparing their bid.

4. The Contractor shall verify all existing utility locations, public or private, shown or not shown, on these plans prior to construction. The Engineer shall be notified in writing of any utilities found interfering with the proposed construction and appropriate remedial action shall be taken before proceeding with the work. The Contractor shall notify Dig–Safe at 1–800–225–4977 at least 72 hours prior to beginning work to confirm the location of underground utilities.

5. Overhead utility lines are located throughout the project with crossings at various locations and running along the road throughout the project. The Contractor is advised that extreme caution will be required in the operation of equipment, especially cranes.

6. The Contractor shall provide staging areas as required for staging, processing, and stock pile area as necessary. The Contractor shall prepare the area as necessary and install all erosion control devices to meet NHDES–WT standards. The Contractor shall stockpile, handle and transport materials to preserve their quality and fitness for the work. Materials shall also be stored to facilitate inspection and may be subject to inspection and retesting before incorporation in the work. Private property shall not be used for storage purposes without written permission of the property Owner. If requested, copies of such written permission shall be furnished to the Owner. After completion of construction, the Contractor shall return the staging area to preexisting conditions to the satisfaction of the property Owner and the City.

7. The Contractor shall establish the initial construction layout by field staking the alignments every 50 feet as well as at every PC and PT. The Contractor shall utilize this construction layout established to set up whatever specific detail controls he may need for establishing location, elevation lines and grades of all work.

8. The Contractor shall perform all required layout work with competent, qualified personnel in a manner consistent with the current survey/layout practices and acceptable to the Engineer. All this work is subject to checking, approval, and continuous observation by the Engineer. The Contractor shall provide the Engineer with qualified persons to assist in this checking as needed and on request of the Engineer. The Contractor shall perform all necessary layout work not specified above in order to construct all elements of the project as shown on the plans and specified in the contract. This work shall include, but shall not be limited to, stakeout necessary to establish lines and grades as earthwork operations progress; stakeout, layout and elevations as required for installing drain lines, sidewalks, multi–use paths, structures, and other items included in the work.

9. The Contractor is solely responsible for the accuracy of the work. The Engineer may check all or any portion of the layout stake–out made by the Contractor. Any necessary correction to the work shall be made immediately by the Contractor. Such checking by the Engineer will not relieve the Contractor of any responsibilities for the accuracy or completeness of the work.

10. The Contractor shall be responsible for the preservation of all bench marks and control points. If any of the control points are disturbed by the Contractor during the construction, the Contractor shall replace them at no expense to the Owner. Damaged or destroyed points, bench marks or stakes or any reference points damaged or made inaccessible by the progress of the construction shall be replaced or transferred by the Contractor, subject to verification by the Engineer. Replacement of any layout points shall be performed by or under the direction of a NH licensed land surveyor.

11. Apparent edge of right–of–way is shown on the plans. Perform all work within the existing right–of–way or acquired easement areas.

12. The Contractor shall protect private property and shall take all necessary measures and precautions to avoid damage to existing trees, shrubs, lawns, plantings, etc. This protection will include the trimming of trees prior to construction if necessary. The Contractor shall be responsible for repairs/replacement of all damaged items.

13. Unsuitable materials and boulders/rock/stones as defined by the specifications which are not acceptable as fill material shall be removed from the site. Disposal is the Contractor's responsibility.

14. The Contractor shall be responsible for all methods and materials for construction of this project, including compliance with all applicable OSHA regulations. The Owner and Engineer will periodically review construction for compliance with the plans and specifications; such review does not imply approval of methods of construction.

15. All granite curb removed shall be salvaged to the City. All other materials removed shall become the property of the Contractor and removed from the site.

16. The Contractor shall set all manhole frames and covers, catch basin grates, pull box covers, and water valve covers to be flush with finished grade.

Permit Notes :

1. The Contractor shall be responsible for obtaining all construction permits, local and state, as well as from public utilities, as required.

2. The Contractor shall prepare a project specific Stormwater Pollution Prevention Plan (SWPPP).

3. A flagging permit will be required from the City of Portsmouth.

Survey Notes:

1. See Existing Conditions Plans

Dewatering Notes :

1. Control of surface water is a critical requirement of the work. All necessary actions shall be taken to minimize the effect of precipitation and runoff on the work. Upgradient runoff shall be diverted from active or completed work areas, and all work shall be graded to promote controlled runoff. The Contractor shall prevent surface water and subsurface or groundwater from flowing into excavations or onto any work and from flooding the project site and surrounding area.

2. Water shall not accumulate in excavations. All pipe shall be laid "in the dry." New pipe shall not be used to dewater excavations. Contractor shall remove water to prevent softening of subgrades and soil changes detrimental to stability of the subgrade. The Contractor shall dewater excavated areas as required to perform the work, and in such a manner as to preserve the undisturbed state of subgrade material.

3. The Contractor will be responsible for all costs associated with dewatering the construction site. The Contractor shall provide and maintain pumps, well points, sumps, suction and discharge lines, and other dewatering system components necessary to convey water away from excavations. Discharge of dewater lines shall be directed through a dewatering filter bag, Ultratech International or equal, to remove sediment prior to discharge into existing drainage basin or stabilized drainage swale.

4. The Contractor shall prevent migration of sediment in accordance with the erosion control requirements of this Contract.

5. Discharge of dewater lines shall not accumulate on the ground surface and shall be diverted using existing natural or man–made drainage–ways to receive and dispense with surface water runoff.

6. Discharged water shall be free of sediment and contaminants (bacteria, hydrocarbons, etc.).

Storm Sewer Notes:

1. After taken out of service, existing drain manholes and catch basins within the project limits not removed during installation of new utilities shall be removed and disposed of by the Contractor.

2. All catch basins, drain manholes and drain lines shall be cleaned prior to acceptance by the City.

Traffic Management and Signing Notes:

1. The Contractor shall prepare a Work Plan for the sequencing of the project and management of traffic. Plan shall include locations of construction signage and the variable message boards.

2. All traffic control devices shall conform with Sections 618 and 619 of the NHDOT Standard Specifications, the current editions of the MUTCD including all revisions, and the State of NH DOT Traffic Control Handbook.

3. The Contractor shall exercise caution and comply with all applicable traffic laws and regulations in the execution of work. The Contractor is to coordinate all work with the City of Portsmouth Public Works, Fire and Police Departments and Engineer at least 14 days prior to implementing any temporary lane closures or temporary detours.

4. All costs for traffic control devices including placement, relocation, maintenance, and removal of signs shall be included in the Contractor's bid.

5. All permanent construction signing and warning devices shall be supplied, erected, maintained, and removed by the Contractor. Placement of permanent construction signs shall be coordinated with the Engineer and Public Works staff. The contractor shall bear all expense of maintaining the section of road undergoing improvement including all temporary approaches or crossings and intersections with trails, roads, streets, businesses, parking lots, residences, garages, farms, and other features as may be necessary.

6. Access to existing drives shall be maintained at all times. In the event that major work must be done at drives that precludes full access, the Contractor is to coordinate the work with the Owners and the Engineer 24 hours in advance to minimize inconveniences.

7. Unless otherwise approved, the Contractor shall maintain two–way traffic on Gosling Road.

8. All road openings shall be covered at the end of each work day to ensure safe vehicular and pedestrian travel.

9. Dust control operations shall be provided throughout the duration of the project, incidental to the work.

no.	revision	date	by

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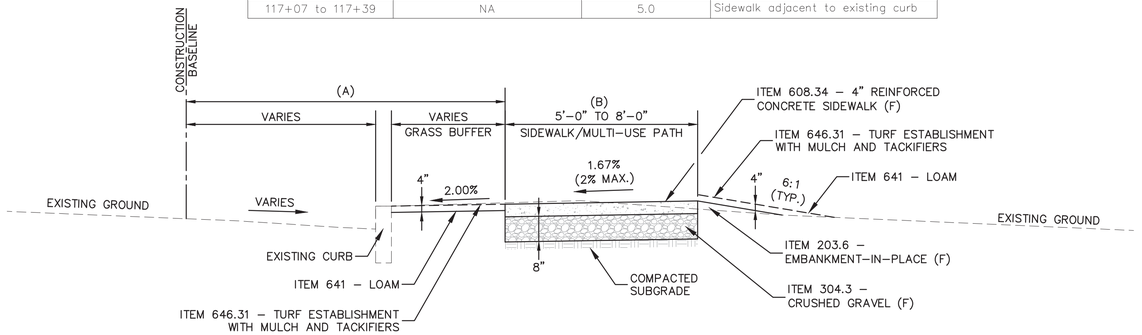
designed by: JJB
drawn by: JJB/SCK
approved by: DH
scale: NOT TO SCALE
date: August 2016
project no: 996
file name: 996 - Notes.dwg

City of Portsmouth, NH
Community Development Department
Gosling Road
Pedestrian, Bike & Related Improvements
Notes

drawing no. N-1
sheet: 2 of 16

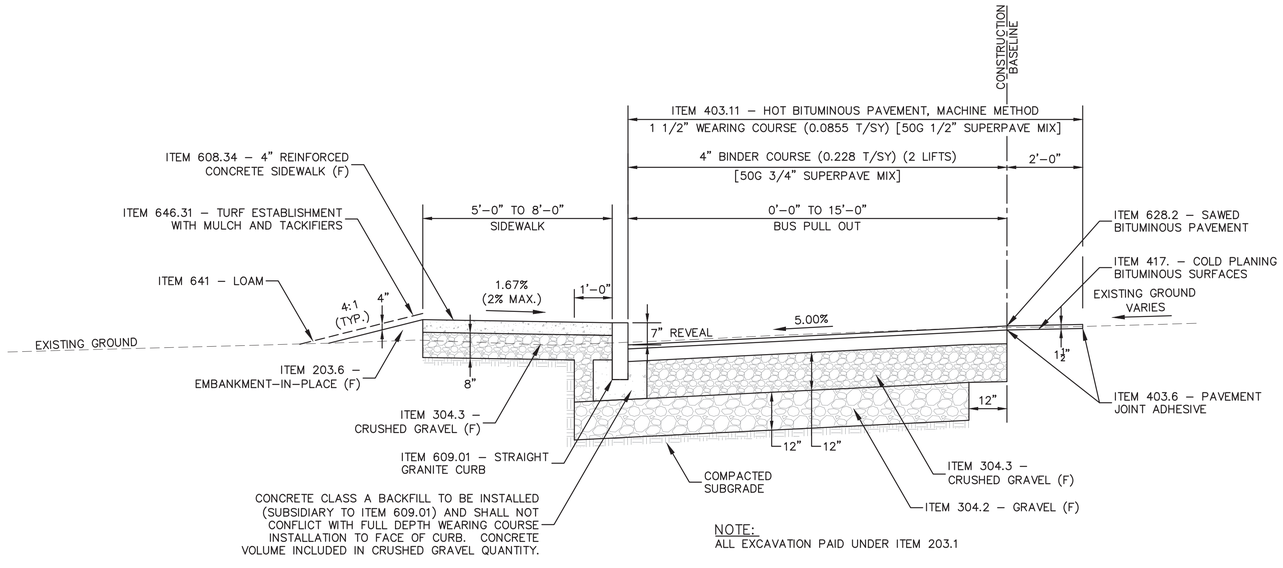
SIDEWALK/MULTI-USE PATH LAYOUT INFORMATION			
STATION RANGE	BASELINE TO SIDEWALK EDGE WIDTH (A)	SIDEWALK/PATH WIDTH (B)	REMARKS
100+99 to 106+13	NA	5.0	Sidewalk adjacent to existing curb
106+13 to 106+28	NA	Transition	Sidewalk adjacent, width transition
106+28 to 107+22	NA	8.0	Sidewalk adjacent to existing curb
107+22 to 107+80	NA	8.0	Transition
108+20 to 113+38	9.0	8.0	Approx. 5.0' grass bufffer
113+75 to 115+88	9.0	8.0	Approx. 5.0' grass bufffer
116+25 to 116+89	7.0	5.0	Approx. 3.0' grass bufffer
116+89 to 117+07	NA	5.0	Transition
117+07 to 117+39	NA	5.0	Sidewalk adjacent to existing curb



NOTE:
ALL EXCAVATION PAID UNDER ITEM 203.1

Sidewalk/Multi-Use Path Typical Section

Not To Scale
STA. 100+99 To 117+39



NOTE:
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Bus Pull Out Typical Section

Not To Scale
STA. 200+67 To 203+32

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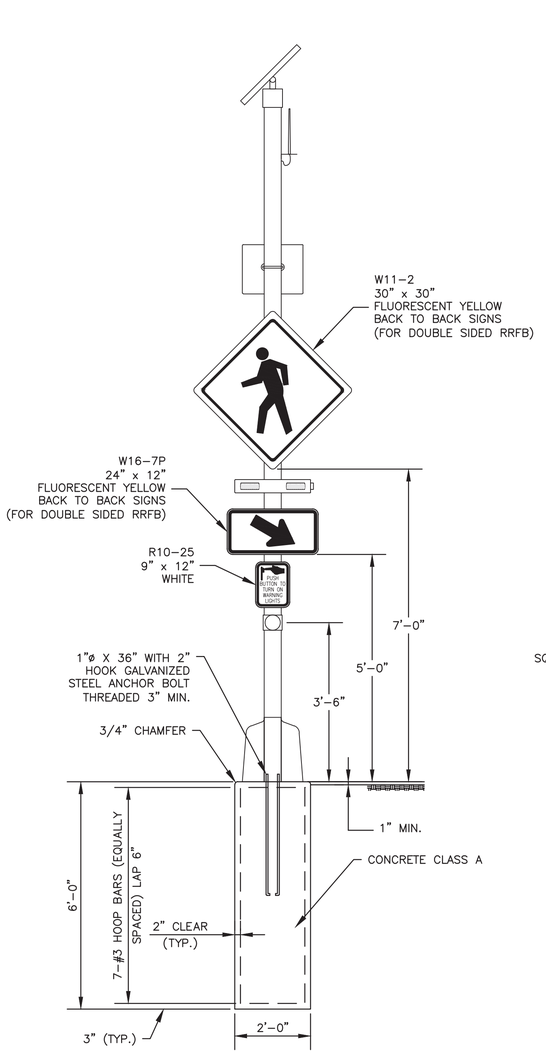
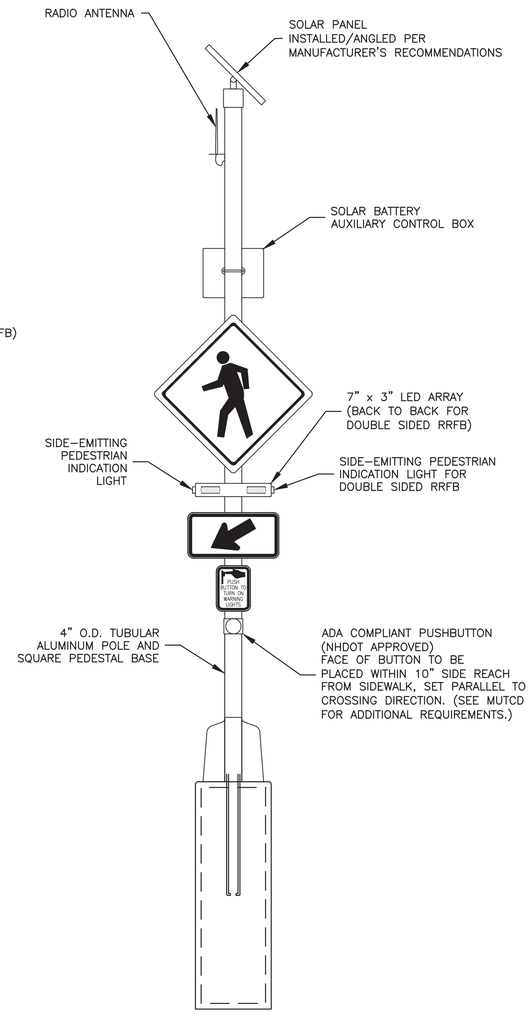
Pedestrian, Bike & Related Improvements
Typical Sections

drawing no. TS-1
sheet: 3 of 16



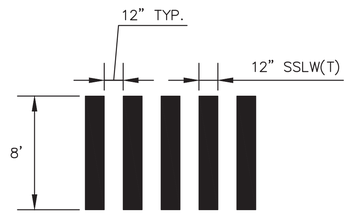


Rectangular Rapid Flashing Beacon Assembly Detail

Not to Scale

NOTES:

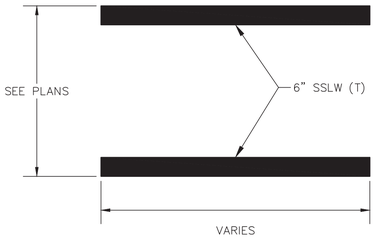
1. SHOP DRAWING REVIEW REQUIRED PRIOR TO ORDERING EQUIPMENT OR INSTALLING BASES.
2. ALL POLES, BASES, AND WIRE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
3. CONCRETE BASES SHALL BE INCIDENTAL TO THE RRFB ASSEMBLY INCLUDING ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
4. ANCHOR BOLTS, GROUND ROD & GROUND WIRE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
5. BOLT CIRCLE DIAMETER SHALL BE VERIFIED WITH THE MANUFACTURER.
6. REINFORCEMENT SHALL CONFORM TO SECTION 544 OF THE STANDARD SPECIFICATIONS.
7. ANY ANCHOR BOLTS DAMAGED DURING INSTALLATION SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER.
8. UPON INSTALLATION, ANCHOR BOLT THREADS SHALL BE CLEANED WITH A WIRE BRUSH.
9. TIMING PLAN AND FLASH PATTERN TO BE APPROVED BY ENGINEER.



Continental Block Crosswalk Detail

Not to Scale

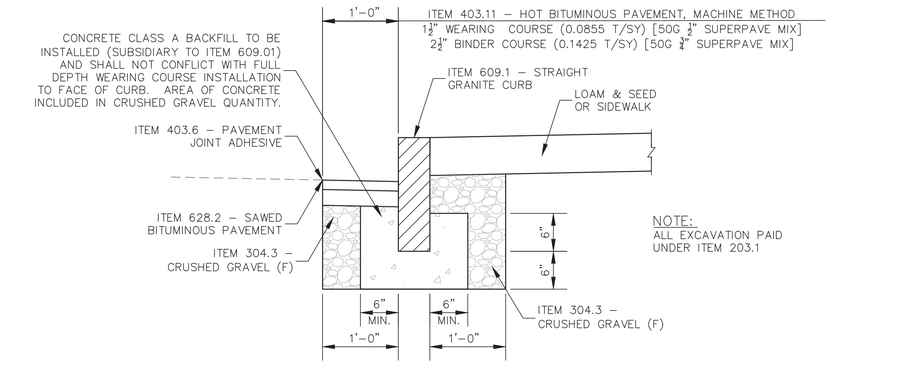
STA. 108+00
STA. 112+70
STA. 113+50
STA. 116+00



Crosswalk Detail

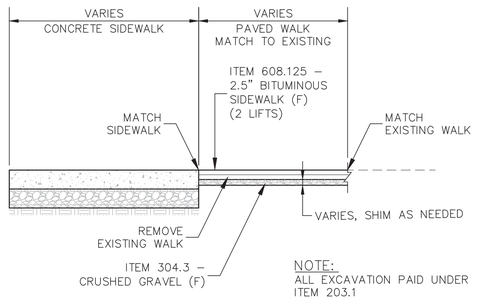
Not to Scale

STA. 106+00



Concrete Curb Backing Detail

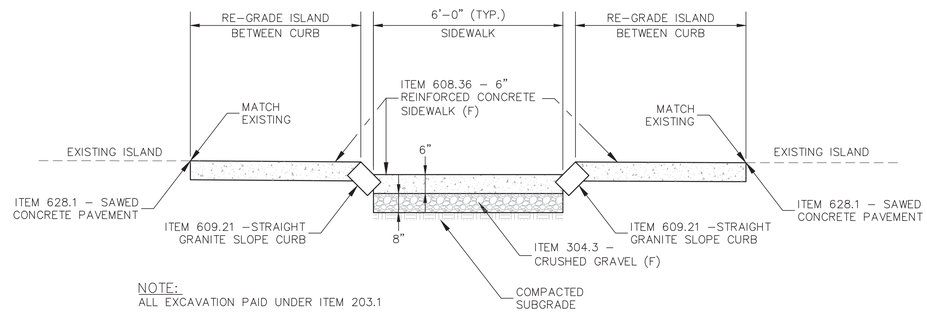
Not To Scale



Walk Detail

Not to Scale

107+35 RT	110+29 RT	111+80 RT	114+80 RT
108+80 RT	110+80 RT	112+30 RT	115+30 RT
109+30 RT	111+10 RT	112+83 RT	116+30 RT
109+78 RT	111+28 RT	114+32 RT	117+15 RT



Curbed Island Sidewalk Typical

Not to Scale

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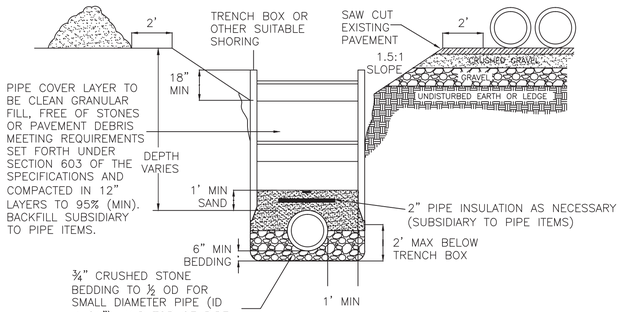
drawing no. D-1
sheet: 4 of 16

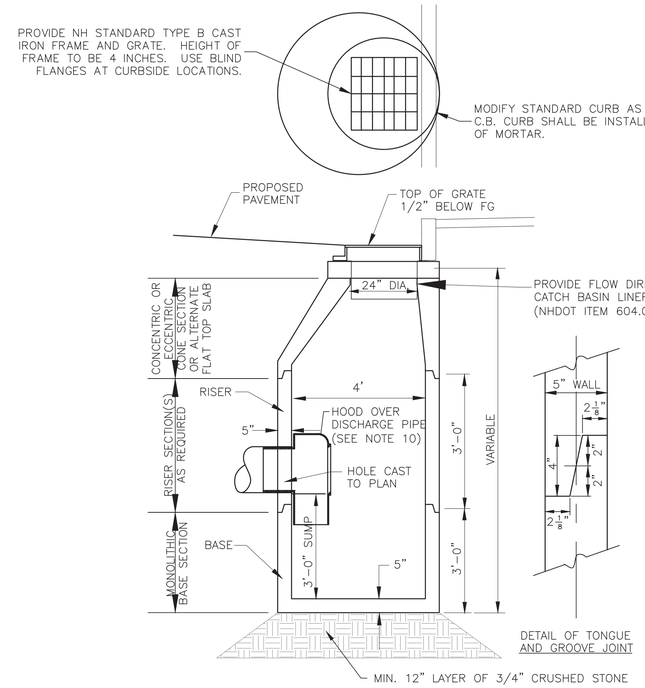


SEE NHDOT 206.4.1.2 SPECIFICATION FOR PAYMENT LIMITS ALL EXCAVATIONS OVER 20' IN DEPTH MUST BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER.

INSULATION REQUIRED IF COVER OVER DRAIN LINE IS LESS THAN 3'-0".

Trench Detail

Not to Scale



Catch Basin Detail

NOT TO SCALE

NOTES:

1. HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF A TYPE APPROVED BY THE ENGINEER, WHICH SHALL, IN GENERAL, DEPEND FOR WATERTIGHTNESS UPON AN ELASTOMERIC OR MASTIC-LIKE GASKET.
2. PIPE-TO-MANHOLE JOINTS SHALL BE ONLY AS APPROVED BY THE ENGINEER AND IN GENERAL WILL DEPEND FOR WATERTIGHTNESS UPON EITHER AN APPROVED NON-SHRINKING MORTAR OR ELASTOMERIC SEALANT.
3. FOR BITUMASTIC TYPE JOINTS, THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY. APPROVED BITUMASTIC SEALANTS INCLUDE RAM-NEK, KENT SEAL NO. 2, EZ OR EQUAL.
4. ALL STRUCTURES SHALL MEET H-20 LOADING. CONCRETE SHALL BE 4,000 PSI AFTER 28 DAYS.
5. THE TONGUE OR THE GROOVE OF THE JOINT OF THE WALL. SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ.IN. PER LINEAR FOOT.
6. CONE SECTIONS MAY BE EITHER CONCENTRIC OR ECCENTRIC, OR FLAT SLAB TOPS MAY BE USED WHERE PIPE WOULD OTHERWISE ENTER INTO THE CONE SECTION.
7. CATCH BASIN GRATES TO BE NHDOT TYPE B GRAY IRON, 3 FLANGE TYPE.
8. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES.
9. ECCENTRIC CONES SHALL BE USED WHEN DEPTH TO CROWN OF SHALLOWEST PIPE EXCEEDS 30"; OTHERWIDE FLAT TOP SLABS SHALL BE USED. RISERS OF 12", 36" AND 48" CAN BE USED TO REACH THE DESIRED DEPTH.
10. HOOD ON CATCH BASINS SHALL BE "THE ELIMINATOR" OIL AND FLOATING DEBRIS TRAP AS MANUFACTURED BY GROUNDWATER RESCUE, INC OF QUINCY, MA OR APPROVED EQUAL. CONTRACTOR SHALL DRILL 1/4" VERTICAL HOLE AT TOP OF HOOD. HOOD SUBSIDIARY TO CATCH BASIN ITEMS.
11. FRAME AND GRATES SHALL BE BROUGHT TO GRADE USING GRADE SS HARD BRICKS (2 COURSE MIN., 12" MAX.) LAID FLAT. FRAMES SHALL BE SET IN A FULL BED OF MORTAR AND SEALED WITH PORTLAND CEMENT.

no.	revision	date	by

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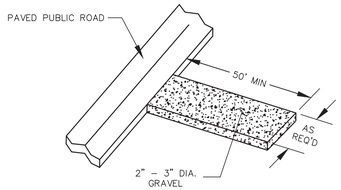
City of Portsmouth, NH
Community Development Department

Gosling Road
Pedestrian, Bike & Related Improvements

Details

drawing no. D-2

sheet: 5 of 16



CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE – USE 2" – 3" STONE OR RECLAIMED CONCRETE

2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET.

3. THICKNESS – NOT LESS THAN SIX (6) INCHES.

4. WIDTH – TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

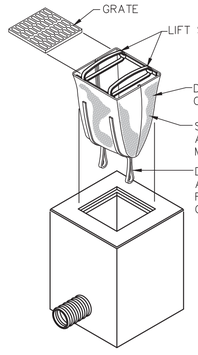
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.

8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PERFORMED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



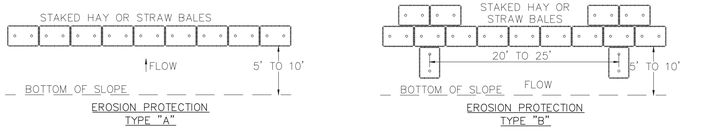
INSTALLATION AND MAINTENANCE GUIDELINES:

INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE CATCH BASIN INSERT SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE CATCH BASIN INSERT. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

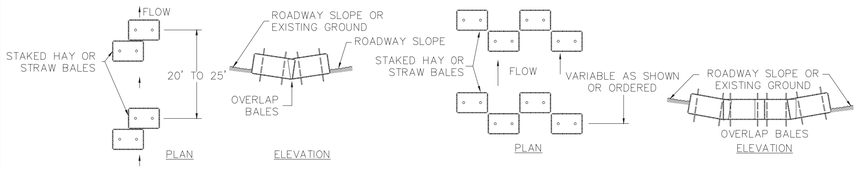
INLET PROTECTION DETAIL

NOT TO SCALE



NORMAL USE AT BOTTOM OF FILL SLOPE NOT TO SCALE

NORMAL USE AT BOTTOM OF FILL SLOPE WHERE HEAVY FLOW MAY BE ANTICIPATED NOT TO SCALE

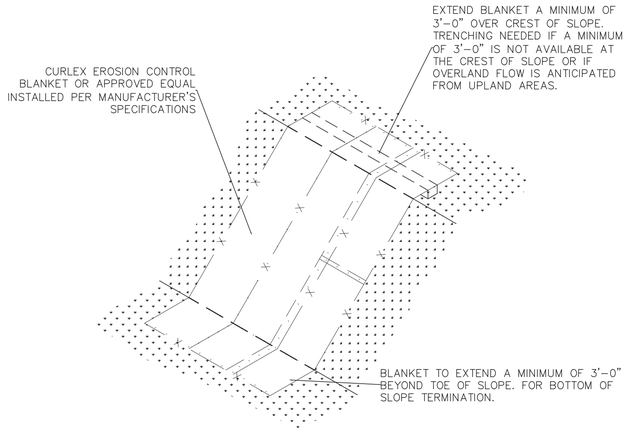


NORMAL USE IN NARROW DITCH SECTION NOT TO SCALE

NORMAL USE IN WIDE DITCH SECTION NOT TO SCALE

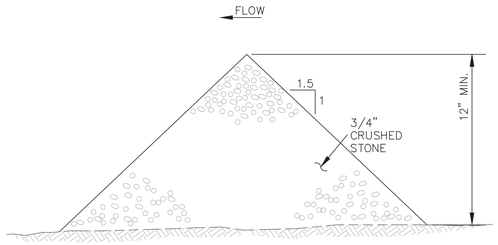
HAY BALE DETAIL

NOT TO SCALE



EROSION CONTROL BLANKET

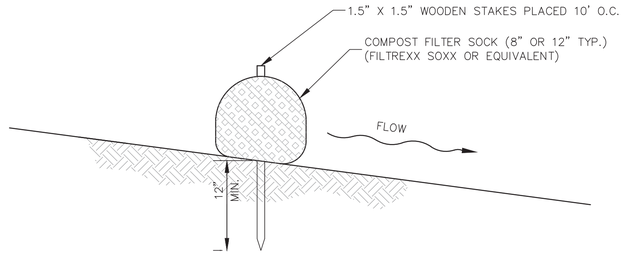
NOT TO SCALE



NOTES:
1. ACTIVE DRAINAGE OUTFLOW CHECK DAMS SHALL BE PLACED IN SERIES ALONG FLOW LINE TO RETAIN SEDIMENTS.

STONE CHECK DAM

NOT TO SCALE



NOTES:
1) Filter sock to be installed prior to beginning work.
2) Filter sock to be maintained as necessary to control erosion.
3) Filter sock to be removed once swales have been stabilized.

COMPOST FILTER SOCK DETAIL

NOT TO SCALE

Erosion Control Notes:

1. PERIMETER CONTROLS TO BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
2. PRIOR TO CONSTRUCTION AND THEREAFTER EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE (BEFORE ROUGH GRADING THE SITE).
3. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.
4. CATCH BASIN INSERTS, MIRAFI DANDY SACK OR EQUAL, SHALL BE INSTALLED AND MAINTAINED AT CATCH BASINS UNTIL PAVEMENT IS INSTALLED. SEDIMENT AND DEBRIS SHALL BE REMOVED FOLLOWING EACH STORM EVENT.
5. ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISH GRADED WITH NO FURTHER CONSTRUCTION TO TAKE PLACE SHALL BE SEEDED AND MULCHED. ALL DISTURBED AREAS OUTSIDE LIMITS OF BUILDING, AND PAVEMENT SHALL BE STABILIZED WITH LOAM AND SEED. ALL SEED, LIME AND FERTILIZER PROGRAMS SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE SPECIFICATIONS AND CITY OF PORTSMOUTH REQUIREMENTS.
6. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, OR LONGER THAN TWO WEEKS AND WHICH WILL BE RE–GRADED LATER DURING CONSTRUCTION, SHALL BE TEMPORARILY SEEDED AND MACHINE STRAW MULCHED AT A RATE OF 1.5 TONS/ACRE.
7. AVOID USE OF UNDISTURBED AREAS WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL TRAVEL THE ROADBEDS OF EXISTING AND FUTURE ROADS AND SHALL BE LIMITED TO WITHIN THE LIMITS OF CONSTRUCTION NOTED ON THE PLANS.
8. COMPOSITE FILTER SOCKS SHALL BE INSTALLED & MAINTAINED AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. ADDITIONAL FILTER SOCKS MAY BE ADDED AS REQUIRED BY THE ENGINEER PRIOR TO ANY ON–SITE GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. IT SHOULD BE MAINTAINED DURING AND AFTER DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING DEVELOPMENT. WHERE POSSIBLE NATURAL DRAINAGE WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE CLEAN EXCESS SURFACE WATER. THE FILTER SOCKS ARE TO BE MAINTAINED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
9. EROSION CONTROL DEVICES SHOWN REPRESENT MINIMUM MEASURES REQUIRED FOR EROSION CONTROL. THE CONTRACTOR SHALL TAKE ANY AND ALL NECESSARY MEASURES TO PREVENT TRANSPORTATION OF SEDIMENT BEYOND THE WORK AREA.
10. ALL SWALES SHALL BE STABILIZED PRIOR TO DIRECTING FLOW TO THEM.
11. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND ACCUMULATED SEDIMENT DISPOSED OF OFFSITE IN A LOCATION APPROVED BY THE OWNER.
12. WITHIN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES COMPREHENSIVE SHORELAND PROTECTION ACT 250' BUFFER, ONLY LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER OR LIMESTONE, MAY BE USED ON LAWNS OR AREAS WITH GRASS.
13. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
14. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
15. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OF RAINFALL.
16. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
17. AN AREA SHALL BE CONSIDERED STABLE IF 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 NO–EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED
   – EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED
18. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
19. TEMPORARY SEEDING (IF USED) SHALL BE PERENNIAL RYE GRASS, SPREAD 0.7LB/1000 SQ. FT.
20. WINTER CONSTRUCTION NOTES
   – ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 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 TO 4 TONS OF MULCH PER ACRE, SECURED 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;
   – ALL DITCHES OR 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 THE DESIGN FLOW CONDITIONS;
   – AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

General Maintenance Notes:

1. DURING THE FIRST YEAR OF SERVICE THE CITY SHALL INSPECT THE FOLLOWING ITEMS SEMI–ANNUALLY AND MAINTAIN AS NECESSARY:
   –REMOVE CATCH BASIN GRATES AND INSPECT FOR ACCUMULATED SEDIMENT IN SUMPS. REMOVE SEDIMENT IF IT EXCEEDS 6–INCHES IN DEPTH.
   –INSPECT INTEGRITY OF PIPE CONNECTIONS TO CATCH BASINS AND RE–GROUT IF NECESSARY.
   –INSPECT SEDIMENT TRAP AND STABILIZED OUTLETS FOR ACCUMULATION OF SEDIMENT OR EROSION AND REPAIR AS NECESSARY.
   –INSPECT ALL TREATMENT PRACTICES FOR INVASIVE SPECIES AND REMOVE AS NECESSARY.
2. AFTER THE FIRST YEAR OF SERVICE, THE CITY SHALL COMPLETE THE ABOVE MAINTENANCE ON AN ANNUAL BASIS.

no.	revision	date	by
1	REPLACED SILT FENCE WITH SILT SOCKS	7/25/16	SCK

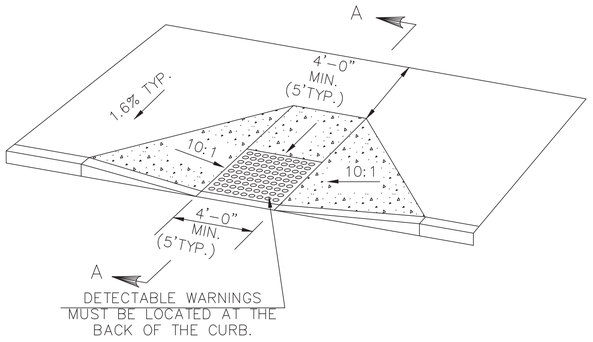
CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
35 Bow Street, Portsmouth, NH 03801, 603/431-6196
Langer Place, 55 So. Commercial Street, Manchester, NH 03101, 603/627-0708
10 Fries Street, Portland, Maine 04101, 207/541-4223
info@cmaengineers.com www.cmaengineers.com

designed by: JJB | drawn by: JJB/SCK | approved by: DH | scale: NOT TO SCALE
date: August 2016 | project no: 996 | file name: 996 - Details.dwg

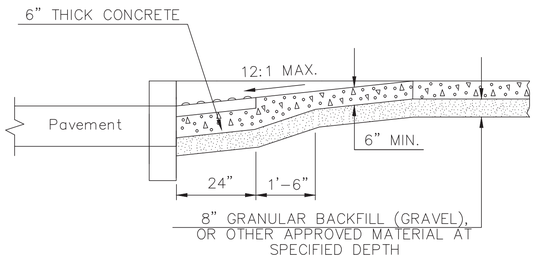
City of Portsmouth, NH
Community Development Department
Gosling Road
Pedestrian, Bike & Related Improvements
Erosion Control
Notes & Details

drawing no. D-3

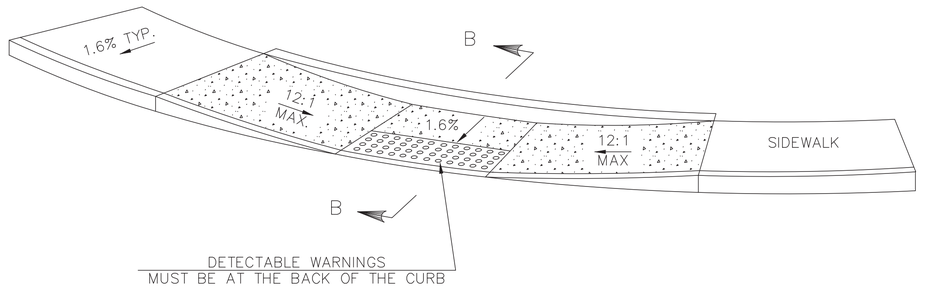
sheet: 6 of 16



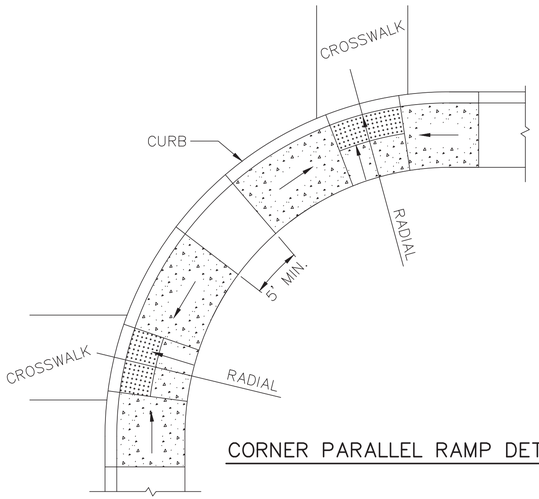
PERPENDICULAR CURB RAMP DETAIL



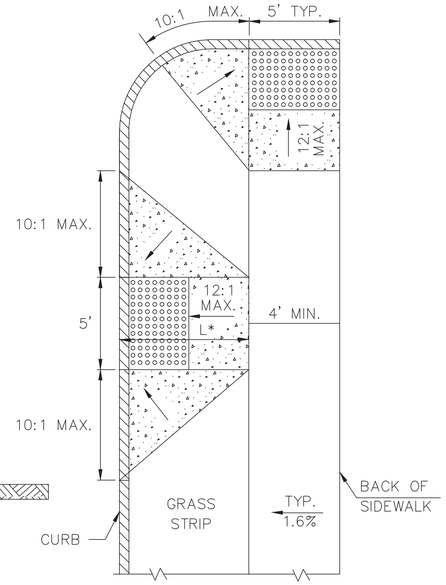
SECTION A–A



PARALLEL CURB RAMP DETAIL

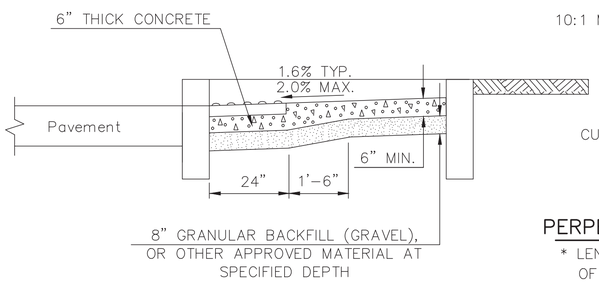


CORNER PARALLEL RAMP DETAIL



PERPENDICULAR RAMP WITH GRASS PANEL

* LENGTH OF RAMP VARIES WITH SLOPE & WIDTH OF GRASS PANEL



SECTION B–B

TRANSITION RAMPS:

BLENDED TRANSITIONS HAVE A RUNNING SLOPE GREATER THAN 2% BUT LESS THAN 5%. CURB RAMPS HAVE A RUNNING SLOPE OF 5% MIN. TO 8.33% MAX. SIDEWALK, BLENDED TRANSITIONS, AND CURB RAMPS HAVE A MAX. CROSS SLOPE OF 2%.

ALL GRADE BREAKS BETWEEN LANDINGS, RAMPS, AND BLENDED TRANSITIONS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.

IF IT IS NECESSARY TO USE SIDEWALK WIDTHS 5'–0" OR LESS, PROVIDE A WIDENED AREA A MINIMUM OF 5'–0" WIDE BY 5'–0" LONG SPACED AT INTERVALS OF 200' MAXIMUM TO ALLOW FOR USERS TO PASS EACH OTHER.

PROVIDE DETECTABLE WARNING SURFACES ANYTIME THAT A CURB RAMP, BLENDED TRANSITION, OR LANDING CONNECTS TO A STREET. PLACEMENT FOR DETECTABLE WARNING SURFACES ARE AS FOLLOWS:

PERPENDICULAR CURB RAMPS:

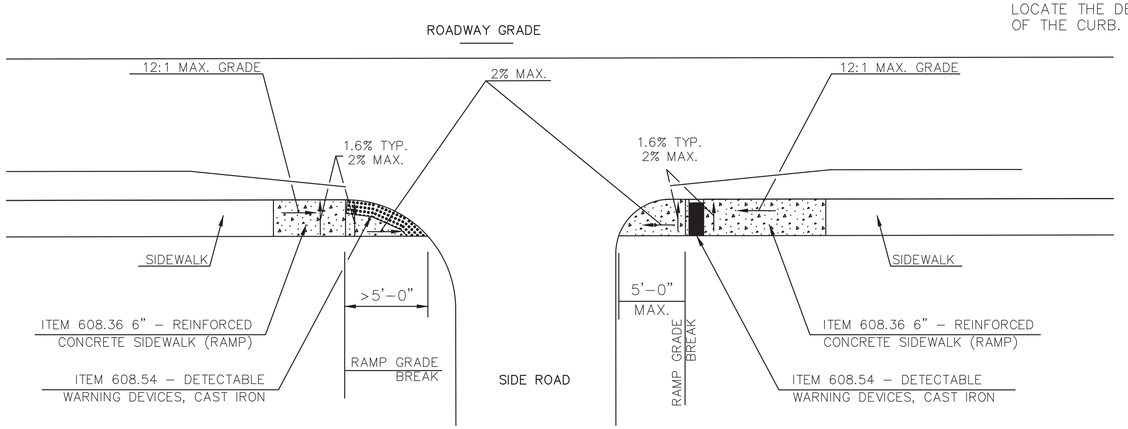
WHERE BOTH ENDS OF THE BOTTOM GRADE ARE LESS THAN 5'– 0" FROM THE BACK OF THE CURB, LOCATE THE DETECTABLE WARNING PANELS ON THE RAMP SURFACE AT THE BOTTOM OF THE RAMP. WHERE EITHER END OF THE BOTTOM GRADE IS GREATER THAN 5'–0" FROM THE BACK OF THE CURB, LOCATE THE DETECTABLE WARNINGS AT THE BOTTOM OF THE LANDING.

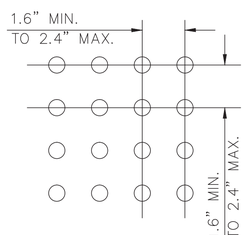
PARALLEL CURB RAMPS:

LOCATE THE DETECTABLE WARNING SURFACES AT THE BACK OF THE CURB ALONG THE EDGE OF THE LANDING.

FOR BLENDED TRANSITIONS AND LANDINGS:

LOCATE THE DETECTABLE WARNING SURFACES AT THE BACK OF THE CURB.





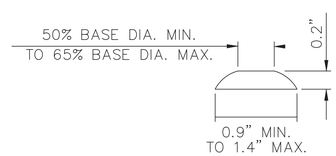
DOME SPACING

THE ORDER OF PREFERENCE FOR LOCATION OF CORNER RAMPS:

1. TWO SEPARATE RAMPS LOCATED ON TANGENT SIDEWALK AREA IMMEDIATELY OUTSIDE OF CORNER RADIUS.
2. TWO SEPARATE RAMPS SEPARATED BY 5' MINIMUM AS SHOWN ABOVE.
3. SINGLE RAMP SERVING TWO CROSSWALKS.

GENERAL NOTES

1. THE MAXIMUM RUNNING SLOPE OF ANY SIDEWALK CURB RAMP IS 12:1, THE MAXIMUM CROSS SLOPE IS 2%. THE SLOPE OF THE LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION. RAMP RUNNING SLOPE EXCEPTION: A GREATER THAN 8.33% RAMP RUNNING GRADE IS ALLOWED WHERE THE THE ROADWAY AND THE SIDEWALK(S) ARE PARALLEL AND VERY CLOSE TOGETHER, WITH THE SAME GRADE, AND USING A GRADE OF 8.33% WOULD RESULT IN A RAMP LENGTH LONGER THAN 15'. IN THOSE CIRCUMSTANCES USE A MAXIMUM RAMP LENGTH OF 15' AND THE ALLOWABLE RUNNING SLOPE OF THE RAMP(S) IS GREATER THAN 8.33%
2. TRANSITIONS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. ROADWAY SHOULDER SLOPES ADJOINING SIDEWALK CURB RAMPS SHALL BE A MAXIMUM OF 5% (FULL WIDTH) FOR A DISTANCE OF 2 FT. FROM THE ROADWAY CURB LINE.
3. INTERCEPT DRAINAGE ALONG THE CURB IN ADVANCE OF SIDEWALK CURB RAMPS OR LANDINGS. CATCH BASINS, MANHOLES, ETC. SHALL NOT BE LOCATED IN, OR AT THE BASE OF, SIDEWALK CURB RAMPS OR LANDINGS.
4. THE BOTTOM OF THE SIDEWALK CURB RAMP OR LANDING, EXCLUSIVE OF THE FLARED SIDES, SHALL BE WHOLLY CONTAINED WITHIN THE CROSSWALK MARKINGS.
5. THE SURFACE OF A PERPENDICULAR SIDEWALK CURB RAMP OR THE LANDING OF A PARALLEL SIDEWALK CURB RAMP SHALL CONTRAST VISUALLY WITH THE ADJOINING SIDEWALK SURFACE, EITHER ASPHALT/LIGHT–COLORED CONCRETE OR LIGHT–COLORED CONCRETE/DARK–STAINED CONCRETE. THE CONCRETE SURFACE SHALL BE SLIP RESISTANT.
6. DETECTABLE WARNING PANELS SHALL BE THE FULL WIDTH OF THE LANDING, BLENDED TRANSITION, OR CURB RAMP THEY ARE A PART OF AND SHALL BE A MINIMUM OF 2 FEET IN DEPTH. THE ROWS OF TRUNCATED DOMES SHALL BE ALIGNED PERPENDICULAR TO THE GRADE BREAK BETWEEN THE RAMP, BLENDED TRANSITION, OR LANDING AND THE STREET.



DOME SECTION

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no.	revision	date	by

designed by: JJB
drawn by: JJB/SCK
approved by: DH
scale: NOT TO SCALE
date: August 2016
project no: 996
file name: 996 - Details.dwg

City of Portsmouth, NH
Community Development Department
Gosling Road
Pedestrian, Bike & Related Improvements
Sidewalk, Ramp & Curb Details

drawing no. D-4
sheet: 7 of 16

NOTES:

1. THIS PLAN IS BASED ON A FIELD SURVEY PERFORMED 3/2016.
2. THE RELATIVE ERROR OF CLOSURE WAS LESS THAN 1 FOOT IN 15,000 FEET.
3. ON SITE CONTROL ESTABLISHED USING SURVEY GRADE GPS UNITS AND NGS "CORS" NETWORK,
   STATIONS USED: NHCO, NHUN, ZBW1.
   HORIZONTAL DATUM: NAD 1983 (2011)(EPOCH 2010.0000)
   VERTICAL DATUM: NAVD 1988
   PRIMARY BM: CITY OF PORTSMOUTH CONTROL POINT "ALBA"
4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (IE CATCH BASINS, MANHOLES, WATER GATES ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENTAL AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, SAID AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE @ 1-888-DIG-SAFE.
5. ENGINEER OR CONTRACTOR TO VERIFY SITE BENCHMARKS BY LEVELING BETWEEN 2 BENCHMARKS PRIOR TO THE SETTING OR ESTABLISHMENT OF ANY GRADES/ELEVATIONS. DISCREPANCIES ARE TO BE REPORTED TO JAMES VERRA AND ASSOC., INC.
6. WETLANDS DELINEATION 3/2016 BY MARC E. JACOBS, NHCWS# 090 & GEOFFREY ANDREWS, NHCWS# 082, PO BOX 417, GREENLAND, NH, 03840-0417.

REFERENCE PLANS:

1. EXISTING CONDITIONS PLAN, CITY OF PORTSMOUTH, N.H. & TOWN OF NEWINGTON, N.H., FOR GORRILL-PALMER CONSULTING ENGINEERS, INC., DATED 1/12/2005, PREPARED BY JAMES VERRA AND ASSOC., INC., NOT RECORDED.

LEGEND:

- ⊡ ..... BOUND as DESCRIBED
- NHHB ..... NEW HAMPSHIRE HIGHWAY BOUND
- ●—●—● ..... CHAIN LINK FENCE
- WOOD FENCE
- PSNH ..... PUBLIC SERVICE CO. OF NH
- 110-5 ..... TAX SHEET – LOT NUMBER
- RCRD ..... ROCKINGHAM COUNTY REGISTRY OF DEEDS
- EOP ..... EDGE OF PAVEMENT
- SGC ..... SLOPED FACED GRANITE CURB
- VGC ..... VERTICAL FACED GRANITE CURB
- RWC ..... CONCRETE RETAINING WALL
- RWM ..... MORTARED RETAINING WALL
- ⊕ ..... BOLLARD
- SIGN
- DOUBLE POST SIGN
- SIGNAL CONTROL PANEL
- SIGNAL POLE
- UTILITY POLE
- UTILITY POLE W/TRANSFORMER
- LIGHT POLE
- UTILITY POLE WITH ARM & LIGHT
- GUY
- ELECTRICAL CONDUIT
- ELECTRICAL BOX
- GAS METER
- GAS SHUT OFF
- GAS VALVE
- WATER GATE VALVE
- WATER SHUT OFF VALVE
- HYDRANT
- CATCH BASIN
- DRAIN MANHOLE
- SEWER MANHOLE
- TREE LINE/BRUSHLINE
- CONIFEROUS TREE
- DECIDUOUS TREE
- CONIFEROUS SHRUB
- DECIDUOUS SHRUB
- — W — ..... WATER LINE
- — S — ..... SEWER LINE
- —D— ..... DRAIN LINE
- — G — ..... GAS LINE
- —UGE— ..... UNDERGROUND ELECTRIC
- —UGT— ..... UNDERGROUND TELEPHONE
- —OHW— ..... OVERHEAD WIRES
- —OHE— ..... OVERHEAD ELECTRIC
- —OHT— ..... OVERHEAD TELEPHONE
- CEMENT CONCRETE
- RETAING WALL

DRAIN TABLE

CB# 1
RIM EL= 50.90
(1) INV IN 12"PVC= 48.26
(2) INV OUT 12"PVC= 48.25

CB# 2
RIM EL= 49.93
(1) INV IN 15"RCP= 44.43
(2) INV IN 6"HDPE= 44.83
(3) INV OUT 15"RCP= 44.33

CB# 3
RIM EL= 48.78
(1) INV IN 15"RCP= 43.48
(2) INV IN 6"HDPE= ?
(3) INV OUT 15"RCP= ?
UNABLE TO OPEN
STRUCTURE CLOGGED

CB# 4
RIM EL= 48.61
UNABLE TO OPEN
STRUCTURE CLOGGED

CB# 5
RIM EL= 48.83
UNABLE TO OPEN
STRUCTURE CLOGGED

CB# 6
RIM EL= 48.50
(1) INV OUT 12"RCP= 44.65

CB# 7
RIM EL= 48.51
(1) INV OUT 12"HDPE= 43.82

CB# 8
RIM EL= 49.17'

CB# 9
RIM EL= 49.08
UNABLE TO OPEN

CB# 10
RIM EL= 48.61
(1) INV IN 15"RCP= 43.6±
(2) INV OUT 15"RCP= 43.6±

CB# 11
RIM EL= 48.78
UNABLE TO OPEN

CB# 12
RIM EL= 48.25
(1) INV IN 15"RCP= 42.83
(2) INV OUT 15"RCP= 42.82

CB# 13
RIM EL= 48.66
(1) INV OUT 15"RCP= 44.00

CB# 14
RIM EL= 48.26
(1) INV IN 15"RCP= 43.76
(2) INV IN 15"RCP= 43.81
(3) INV OUT 15"RCP= 43.73

CB# 15
RIM EL= 48.80
(1) INV OUT 15"RCP= 44.15

CB# 16
RIM EL= 48.69
(1) INV IN _____= 45.24
(2) INV OUT _____= 44.39
STRUCTURE SURCHARGED

CB# 17
RIM EL= 48.00
(1) INV IN 15"RCP= 42.5±
(2) INV OUT 15"RCP= 42.35

CB# 18
RIM EL= 51.28

CB# 19
RIM EL= 49.54

CB#20
RIM EL= 49.32
UNABLE TO OPEN

CB# 21
RIM EL= 49.04

CB# 22
RIM EL= 49.43
(1) INV IN 15"RCP= 42.73
(2) INV OUT 12"HDPE= 42.52

CB# 23
RIM EL= 49.35
(1) INV OUT 12"HPDE= 46.80

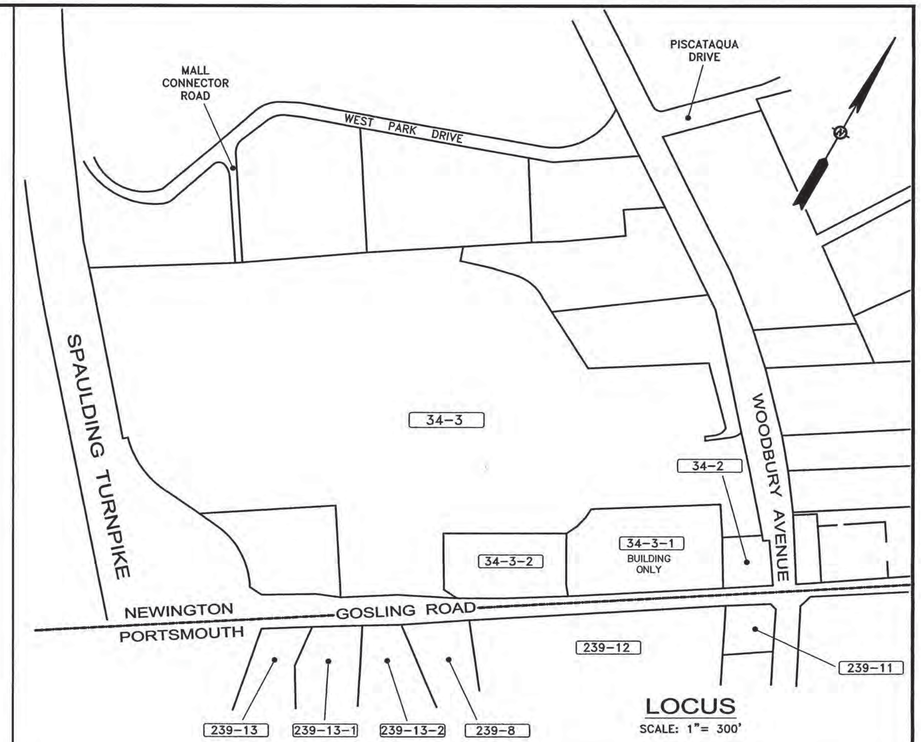
CB# 24
RIM EL= 46.63
(1) INV IN 12"HDPE= 46.50
(2) INV OUT 12"HPDE= 46.50

DMH# 1
RIM EL= 48.46
(1) INV IN 15"RCP= 43.98
(2) INV IN 15"RCP= 44.18
(3) INV IN 12"HDPE= 43.77
(4) INV OUT 15"RCP= 44.16

DMH# 2
RIM EL= 49.50
CL INV= 43.06
36" X 48" ARCHED CMP

DMH# 3
PAVED OVER

DMH# 4
RIM EL= 50.18
(1) INV IN 12"HPDE= 42.18



LOCUS
SCALE: 1"= 300'

MAP-LOT	OWNER OF RECORD	DEED REF.
34-2	CUMBERLAND FARMS, INC., 100 CROSSING BLVD, FRAMINGHAM, MA 01702	4162/2497
34-3	SBAF RUNNING FOX, INC., C/O KEYPOINT PARTNERS LLC, 1 BURLINGTON WOODS DR, BURLINGTON, MA 01803	4719/379
34-3-1	TOYS R US, 1 GEOFFREY WAY, WAYNE, NJ 07470-2030 ATTN: TAX DEPT (BUILDING ONLY)	N/A
34-3-2	SBAF RUNNING FOX, INC., C/O KEYPOINT PARTNERS LLC, 1 BURLINGTON WOODS DR, BURLINGTON, MA 01803	4719/379
239-8	YDNIC LLC, C/O CAMERON & MITTLEMAN LLP, 301 PROMENADE ST, PROVIDENCE, RI 02908	5077/1491
239-11	GREENBACK SECURITY LLC, 112 GATES ST, PORTSMOUTH, NH 03801	5089/870
239-12	PORTSMOUTH HOUSING AUTHORITY, 245 MIDDLE ST, PORTSMOUTH, NH 03801	1428/476
239-13	NEW FRONTIERS CHURCH, INC., 40 PLEASANT STREET, PORTSMOUTH, NH 03801	5503/2870
239-13-1	G6 HOSPITALITY PROPERTY LLC, ATTN: TAX DEPT, PO BOX 117508, CARROLLTON, TX 75011	5358/1277
239-13-2	BED BATH & BEYOND, INC., 650 LIBERTY AVE, UNION, NJ, 07083	4875/1451

20 0 20 40 60 80 FEET
10 0 10 20 METERS

STATE OF NEW HAMPSHIRE MARC E. JACOBS No. 090 CERTIFIED WETLAND SCIENTIST

STATE OF NEW HAMPSHIRE MARC ERNEST JACOBS No. 038 CERTIFIED SOIL SCIENTIST

STATE OF NEW HAMPSHIRE No. 525 JAMES VERRA LAND SURVEYOR SIGNATURE

REV. NO.	DATE	DESCRIPTION	APPR'D
2	7/27/2016	ADD WETLANDS CLASSIFICATION & CORRECT EASEMENT REFERENCES	JV
1	4/25/2016	ADD WETLANDS NOTE TO INDIVIDUAL SHEETS & CHANGE TO 22" X 34" SHEET SIZE	JV

EXISTING CONDITIONS PLAN
GOSLING ROAD & WOODBURY AVENUE
PORTSMOUTH & NEWINGTON, N.H.
for
CMA ENGINEERS, INC.

JAMES VERRA and ASSOCIATES, INC.
101 SHATTUCK WAY
SUITE 8
NEWINGTON, N.H. 03801-7876
603-436-3557

DATE:	4/14/2016
JOB NO:	21804-A
SCALE:	1" = 20'
DWG NAME:	21804-A
PLAN NO:	21804-A
SHEET:	8 OF 16

JCS PROJECT MGR
JCS DRAWN BY

NH STATE PLANE COORDINATE SYSTEM
NAD 1983

LINE	BEARING	DISTANCE
L1	N 36°56'49" W	5.47
L2	N 07°53'27" E	6.45
L3	N 32°13'25" W	1.85

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	359.21	22868.31	0°54'00"	N 58°38'45" E	359.21

TBM 1
HYDRANT TOP FLANGE
BOLT W/ "X" CUT
ELEV= 53.07

GOSLING ROAD

34-3

34-3-2

239-13

239-13-1

239-13-2

239-8

LIMITS OF DRAINAGE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2882/2064

EASEMENTS IN FAVOR OF SOCONY VACUUM OIL COMPANY PER RCRD 1019/322, 1058/278, 1758/022, 1906/346 & 2126/443

LIMITS OF SLOPE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2860/2037 & 2860/1601

LIMITS OF DRAINAGE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2861/167 & 2860/2037

300' WIDE EASEMENT IN FAVOR OF PUBLIC SEVICE CO. OF N.H. SEE RCRD 1263/204, 1340/437 & 1379/216

REMNANTS OF OLD SIGN (SINGLE POST)

INV OUT OVAL CMP= 42.4±

APPROXIMATE FLOW LINE ARCHED CMP 36" X 48"

INV OUT 15"RCP= 43.93

INV OUT 12"PVC= 47.74

INV OUT 15"RCP= 43.1± (OUTLET BURIED)

820.05 N 59°43'46" E

N 59°26'22" E 174.35

N 61°42'00" E 82.52

N 03°02'42" W 32.63

S 85°4

EDGE OF DELINEATED WETLANDS

Palustrine Forested, Broad-leaved Deciduous, Seasonally Flooded/Saturated (PF01E)

Palustrine, Emergent, Persistent Seasonally Flooded/Saturated (PEM1E) (recently harvested / cleared)

TBM 2
SPIKE SET IN UTILITY POLE
PSNH 191 11
ELEV= 50.81
(1.0 ABOVE GND.)

SHEET 2 MATCH LINE SHEET 3

MANMADE AND NATURAL JURISDICTIONAL WETLAND BOUNDARIES WERE DELINEATED BY MARC JACOBS – CERTIFIED WETLAND SCIENTIST NUMBER 090, AND GEOFFREY ANDREWS – CERTIFIED WETLAND SCIENTIST NUMBER 082, IN MARCH 2016 ACCORDING TO THE STANDARDS OF THE US ARMY CORPS OF ENGINEERS – WETLANDS DELINEATION MANUAL; THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION; AND THE CODE OF ADMINISTRATIVE RULES, NH DEPARTMENT OF ENVIRONMENTAL SERVICES – WETLANDS BUREAU – ENV WT 100–900. PREDOMINANT HYDRIC SOILS WERE IDENTIFIED UTILIZING THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004 AND THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7, 2010. THE INDICATOR STATUS OF HYDROPHYTIC VEGETATION WAS DETERMINED ACCORDING TO THE U.S. ARMY CORPS OF ENGINEERS – NORTHCENTRAL AND NORTHEAST 2014 REGIONAL WETLAND PLANT LIST. COPIES OF SITE PLANS DEPICTING THE WETLAND DELINEATION WHICH HAVE BEEN REVIEWED BY THE WETLAND SCIENTIST ARE INDIVIDUALLY STAMPED, SIGNED AND DATED. THIS NOTE HAS BEEN CUSTOMIZED FOR THIS DELINEATION.

SEE SHEET 1 FOR NOTES, LEGEND & STRUCTURE TABLES

20 0 20 40 60 80 FEET
10 0 10 20 METERS

STATE OF NEW HAMPSHIRE
MARC E. JACOBS
No. 090
CERTIFIED WETLAND SCIENTIST

STATE OF NEW HAMPSHIRE LICENSED LAND SURVEYOR
No. 625
JAMES VERRA
SIGNATURE

REV. NO.	DATE	DESCRIPTION	APPR'D
2	7/27/2016	ADD WETLANDS CLASSIFICATION & CORRECT EASEMENT REFERENCES	JV
1	4/25/2016	ADD WETLANDS NOTE TO INDIVIDUAL SHEETS & CHANGE TO 22" X 34" SHEET SIZE	JV

EXISTING CONDITIONS PLAN
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PORTSMOUTH & NEWINGTON, N.H.
for
CMA ENGINEERS, INC.

JAMES VERRA and ASSOCIATES, INC.
101 SHATTUCK WAY
SUITE 8
NEWINGTON, N.H. 03801–7876
603–436–3557

JCS PROJECT MGR
JCS DRAWN BY

DATE:	4/14/2016
JOB NO:	21804–A
SCALE:	1" = 20'
DWG NAME:	21804–A
PLAN NO:	21804–A
SHEET:	9 OF 16

LIMITS OF DRAINAGE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2882/2064

Palustrine, Emergent, Persistent, Seasonally Flooded (PEM1C)

34-3-2

INV IN= 43.4±

APPROXIMATE FLOW LINE ARCHED CMP 44" X 72"

INV OUT= 43.2±

EDGE OF DELINEATED WETLANDS

INV OUT 15"RCP= 43.93

LIMITS OF DRAINAGE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2882/2064

INV OUT 15"RCP= 42.71

NH STATE PLANE COORDINATE SYSTEM NAD 1983

Palustrine, Emergent, Nonpersistent, Seasonally Flooded (PEM2C)

EASEMENTS IN FAVOR OF SOCONY VACUUM OIL COMPANY PER RCRD 1019/322, 1058/278, 1758/022, 1906/346 & 2126/443

INV OUT 15"RCP= 41.44

LIMITS OF DRAINAGE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2882/2064

SHEET 3 — MATCH LINE — SHEET 4

EDGE OF DELINEATED WETLANDS

S 85°46'13" E 60.91

N 59°01'11" E 81.57

GOSLING ROAD

SLOT DRAIN

CB# 11 CB# 12 CB# 16 CB# 17

C1

SIGN

METER PIT

PAVED WALK

N 63°02'08" E 249.15

764.92

WEDGEWOOD ROAD

239-8

239-12

LIMITS OF SLOPE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2861/167

Palustrine Scrub-Shrub, Broad-leaved deciduous, Seasonally Flooded (PSS1C)

300' WIDE EASEMENT IN FAVOR OF PUBLIC SEVICE CO. OF N.H. SEE RCRD 1263/204, 1340/437 & 1379/216

SHEET 2 — MATCH LINE — SHEET 3

TBM 3
SPIKE SET IN UTILITY POLE PSNH 191 8
ELEV= 50.57
(1.0 ABOVE GND.)

MANMADE AND NATURAL JURISDICTIONAL WETLAND BOUNDARIES WERE DELINEATED BY MARC JACOBS – CERTIFIED WETLAND SCIENTIST NUMBER 090, AND GEOFFREY ANDREWS – CERTIFIED WETLAND SCIENTIST NUMBER 082, IN MARCH 2016 ACCORDING TO THE STANDARDS OF THE US ARMY CORPS OF ENGINEERS – WETLANDS DELINEATION MANUAL; THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION; AND THE CODE OF ADMINISTRATIVE RULES, NH DEPARTMENT OF ENVIRONMENTAL SERVICES – WETLANDS BUREAU – ENV WT 100–900. PREDOMINANT HYDRIC SOILS WERE IDENTIFIED UTILIZING THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004 AND THE FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7, 2010. THE INDICATOR STATUS OF HYDROPHYTIC VEGETATION WAS DETERMINED ACCORDING TO THE U.S. ARMY CORPS OF ENGINEERS – NORTHCENTRAL AND NORTHEAST 2014 REGIONAL WETLAND PLANT LIST. COPIES OF SITE PLANS DEPICTING THE WETLAND DELINEATION WHICH HAVE BEEN REVIEWED BY THE WETLAND SCIENTIST ARE INDIVIDUALLY STAMPED, SIGNED AND DATED. THIS NOTE HAS BEEN CUSTOMIZED FOR THIS DELINEATION.

SEE SHEET 1 FOR NOTES, LEGEND & STRUCTURE TABLES

20 0 20 40 60 80 FEET

10 0 10 20 METERS

STATE OF NEW HAMPSHIRE MARC E. JACOBS No. 090 CERTIFIED WETLAND SCIENTIST

STATE OF NEW HAMPSHIRE No. 625 JAMES VERRA SIGNATURE LICENSED LAND SURVEYOR

REV. NO.	DATE	DESCRIPTION	APPR'D
2	7/27/2016	ADD WETLANDS CLASSIFICATION & CORRECT EASEMENT REFERENCES	JV
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PORTSMOUTH & NEWINGTON, N.H.
for
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JAMES VERRA and ASSOCIATES, INC.
101 SHATTUCK WAY
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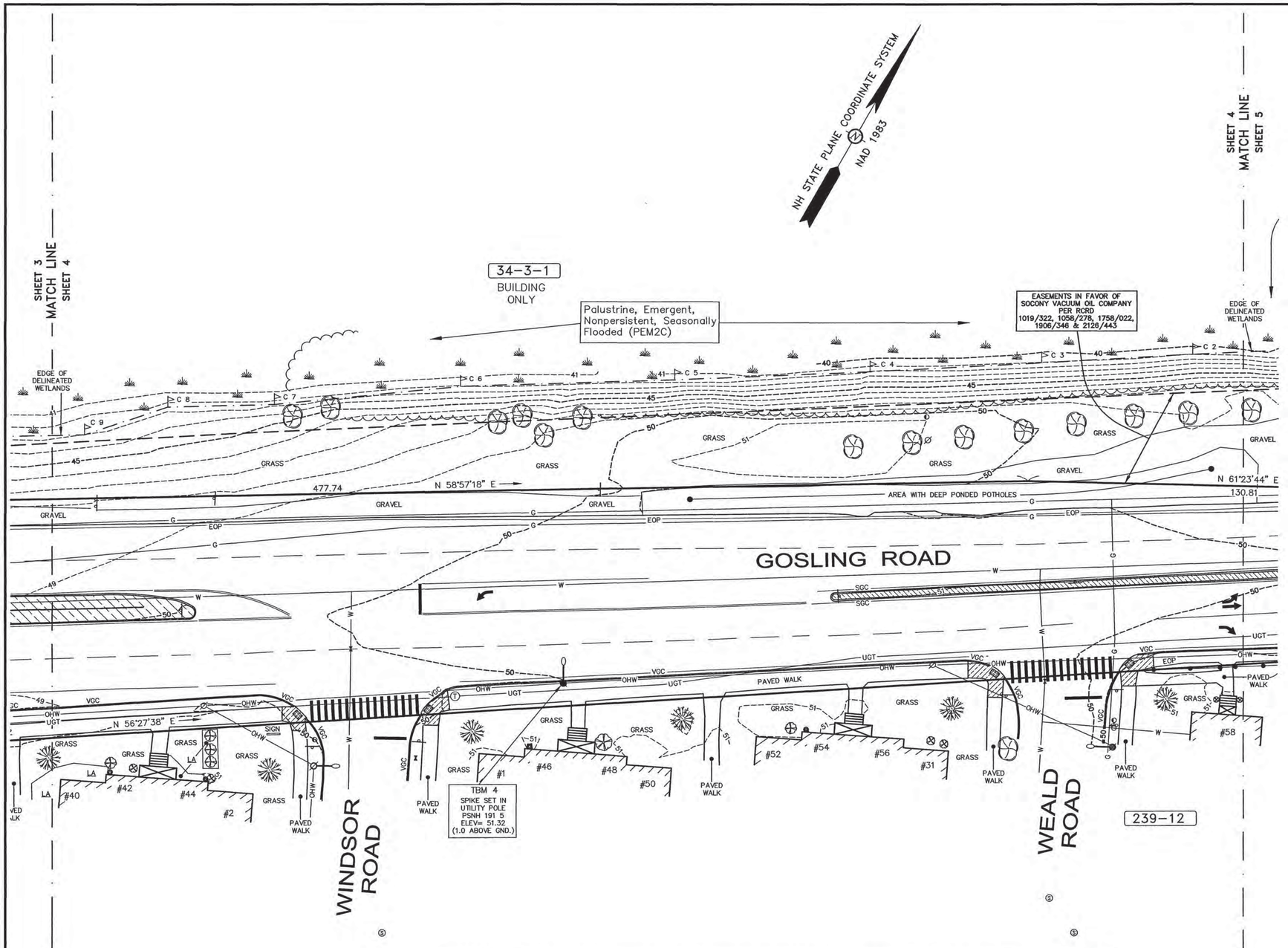
603-436-3557

DATE:	4/14/2016
JOB NO:	21804-A
SCALE:	1" = 20'
DWG NAME:	21804-A
PLAN NO:	21804-A
SHEET:	10 OF 16

JCS PROJECT MGR — JCS DRAWN BY



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101 SHATTUCK WAY
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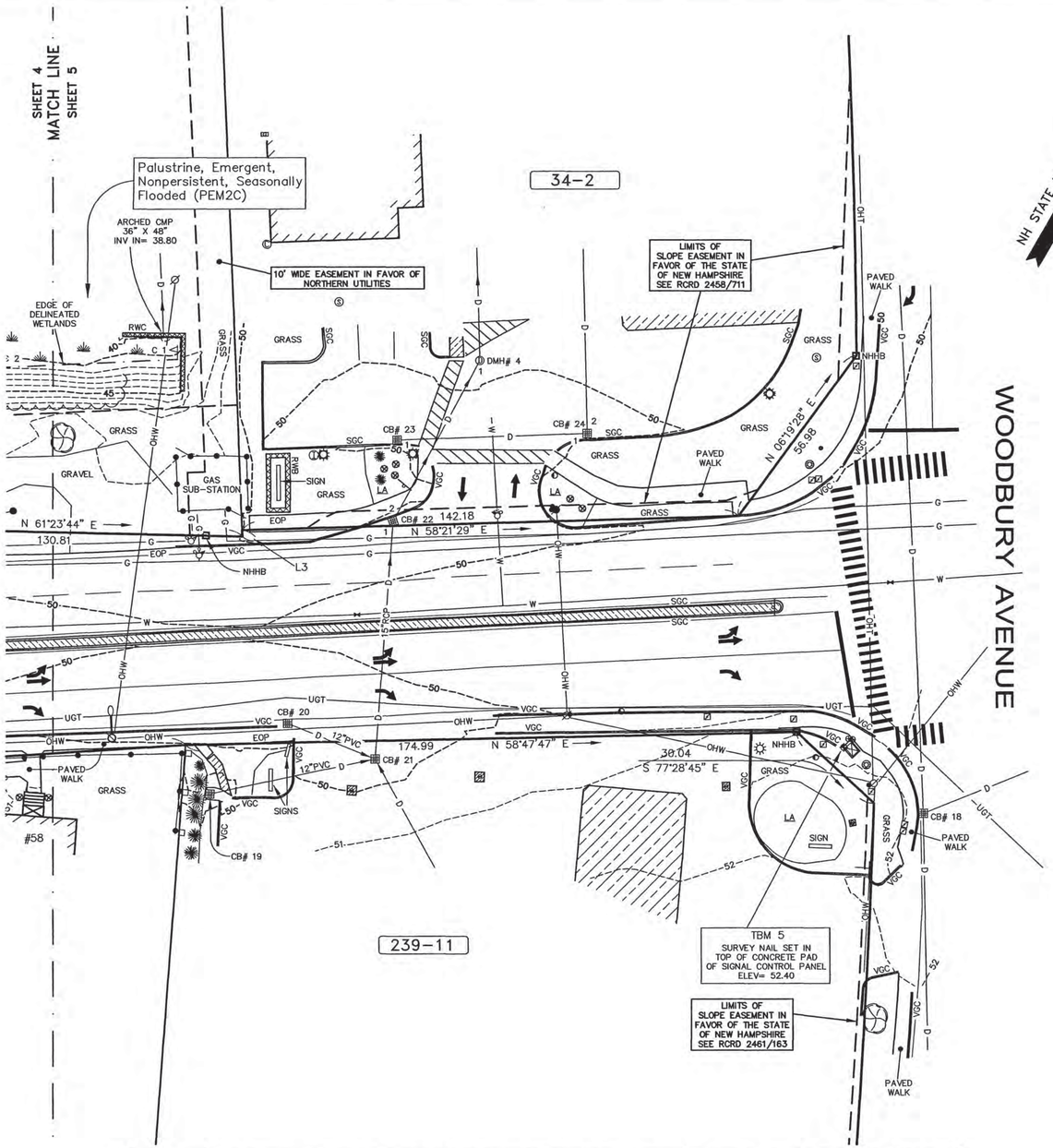
603–436–3557

DATE:	4/14/2016
JOB NO:	21804–A
SCALE:	1" = 20'
DWG NAME:	21804–A
PLAN NO:	21804–A
SHEET:	11 OF 16

JCS PROJECT MGR
JCS DRAWN BY



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SEE SHEET 1 FOR NOTES, LEGEND & STRUCTURE TABLES

20 0 20 40 60 80 FEET
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STATE OF NEW HAMPSHIRE
MARC E. JACOBS
No. 090
CERTIFIED WETLAND SCIENTIST

STATE OF NEW HAMPSHIRE
No. 625
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SIGNATURE
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REV. NO.	DATE	DESCRIPTION	APPR'D
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EXISTING CONDITIONS PLAN
GOSLING ROAD & WOODBURY AVENUE
PORTSMOUTH & NEWINGTON, N.H.
for
CMA ENGINEERS, INC.

JAMES VERRA and ASSOCIATES, INC.
101 SHATTUCK WAY
SUITE 8
NEWINGTON, N.H. 03801-7876
603-436-3557

DATE:	4/14/2016
JOB NO:	21804-A
SCALE:	1" = 20'
DWG NAME:	21804-A
PLAN NO:	21804-A
SHEET:	12 OF 16

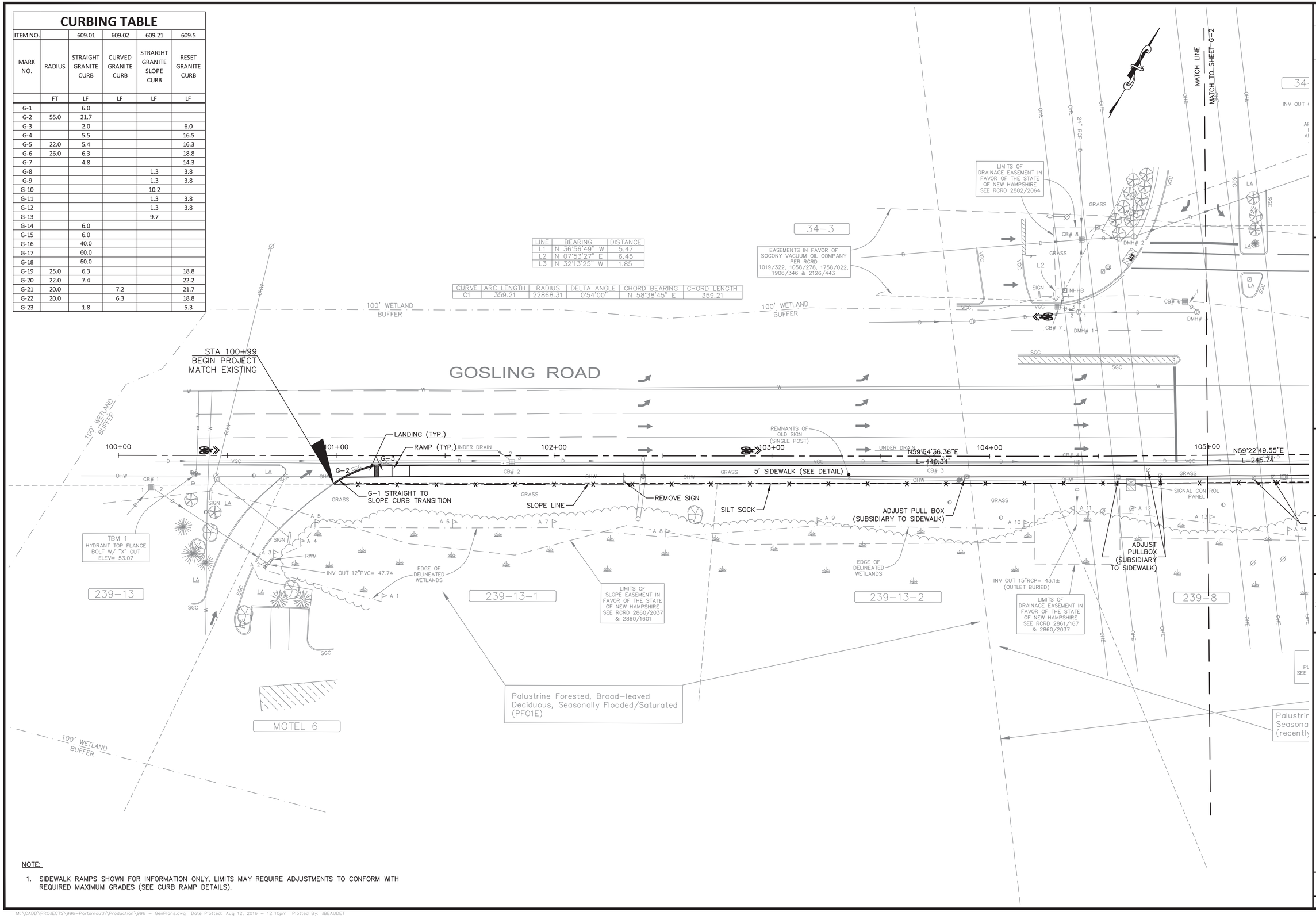
JCS PROJECT MGR
JCS DRAWN BY

CURBING TABLE

ITEM NO.		609.01	609.02	609.21	609.5
MARK NO.	RADIUS	STRAIGHT GRANITE CURB	CURVED GRANITE CURB	STRAIGHT GRANITE SLOPE CURB	RESET GRANITE CURB
	FT	LF	LF	LF	LF
G-1		6.0			
G-2	55.0	21.7			
G-3		2.0			6.0
G-4		5.5			16.5
G-5	22.0	5.4			16.3
G-6	26.0	6.3			18.8
G-7		4.8			14.3
G-8				1.3	3.8
G-9				1.3	3.8
G-10				10.2	
G-11				1.3	3.8
G-12				1.3	3.8
G-13				9.7	
G-14		6.0			
G-15		6.0			
G-16		40.0			
G-17		60.0			
G-18		50.0			
G-19	25.0	6.3			18.8
G-20	22.0	7.4			22.2
G-21	20.0		7.2		21.7
G-22	20.0		6.3		18.8
G-23		1.8			5.3

LINE	BEARING	DISTANCE
L1	N 36°56'49" W	5.47
L2	N 07°53'27" E	6.45
L3	N 32°13'25" W	1.85

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	359.21	22868.31	0°54'00"	N 58°38'45" E	359.21



NOTE:

1. SIDEWALK RAMPS SHOWN FOR INFORMATION ONLY, LIMITS MAY REQUIRE ADJUSTMENTS TO CONFORM WITH REQUIRED MAXIMUM GRADES (SEE CURB RAMP DETAILS).

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
35 Bow Street, Portsmouth, NH 03801, 603/431-6196
Larger Place, 55 So. Commercial Street, Manchester, NH 03101, 603/627-0708
10 Free Street, Portland, Maine 04101, 207/541-4223
info@cmaengineers.com
www.cmaengineers.com

designed by: JJB
drawn by: JJB/SCK
approved by: DH
scale: 0, 20', 40'
date: August 2016
project no: 996
file name: 996 - GenPlans.dwg

City of Portsmouth, NH
Community Development Department

Gosling Road
Pedestrian, Bike & Related Improvements

General Plans

drawing no. G-1

sheet: 13 of 16

M:\CADD\PROJECTS\996-Portsmouth\Production\996 - GenPlans.dwg Date Plotted: Aug 12, 2016 - 12:10pm Plotted By: JBEAUDET

GOSLING ROAD

WEDGEWOOD ROAD

LIMITS OF DRAINAGE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2882/2064

34-3

34-3-2

Palustrine, Emergent, Persistent, Seasonally Flooded (PEM1C)

Palustrine, Emerge Nonpersistent, Sec (PEM2C)

INV OUT OVAL CMP= 42.4±

APPROXIMATE FLOW LINE ARCHED CMP 36" X 48"

INV OUT 15"RCP= 43.93

INV IN= 43.4±

APPROXIMATE FLOW LINE ARCHED CMP 44" X 72"

INV OUT= 43.2±

EDGE OF DELINEATED WETLANDS

INV OUT 15"RCP= 42.71

LIMITS OF DRAINAGE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2882/2064

EASEMENTS IN FAVOR OF SOCONY VACUUM OIL COMPANY PER RCRD 1019/322, 1058/278, 1758/022, 1906/346 & 2126/443

MATCH LINE
MATCH TO SHEET G-3

100' WETLAND BUFFER

SLOT DRAIN

8' CROSSWALK (SEE DETAIL)

OBLITERATE CONFLICTING PAVEMENT MARKINGS (TYP.)

BEGIN 8' MULTI-USE PATH

105+00 N59°22'49.55"E L=245.74'

106+00

107+00 N57°28'28.12"E L=78.41'

108+00

109+00 N63°22'26.40"E L=179.86'

110+00

GRASS BUFFER

5' SIDEWALK

PAVED WALK

8' MULTI-USE PATH

SIGNAL CONTROL PANEL

ADJUST PULLBOX (SUBSIDIARY TO SIDEWALK)

ADJUST PULL BOX (SUBSIDIARY TO SIDEWALK)

SILT SOCK

SLOPE LINE

D11-1 (STA 106+20)

WETLAND BUFFER IMPACT 135 S.F.

#8 PERMANENT EASEMENT

M4-6 D11-1 (STA 107+20)

R1-1 (STA 107+72)

WETLAND BUFFER IMPACT 65 S.F.

R1-1 (STA 108+30)

8' CROSSWALK

18" SSLW(T)

REMOVE

200' RADIUS AT CENTERLINE OF MULTI-USE PATH

TBM 2
SPIKE SET IN UTILITY POLE
PSNH 191 11
ELEV= 50.81
(1.0 ABOVE GND.)

TBM 3
SPIKE SET IN UTILITY POLE
PSNH 191 8
ELEV= 50.57
(1.0 ABOVE GND.)

LIMITS OF SLOPE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2861/167

300' WIDE EASEMENT IN FAVOR OF PUBLIC SEVICE CO. OF N.H. SEE RCRD 1263/204, 1340/437 & 1379/216

EDGE OF DELINEATED WETLANDS

Palustrine Scrub-Shrub, Broad-leaved deciduous, Seasonally Flooded (PSS1C)

Palustrine, Emergent, Persistent Seasonally Flooded/Saturated (PEM1E) (recently harvested / cleared)

239-8

239-12

MATCH LINE
MATCH TO SHEET G-1

STOP
R1-1
(18 x 18)

BIKE ROUTE
D11-1
(24 x 18)

END
M4-6
(12 x 6)

NOTES:

1. SEE SHEET G-1 FOR CURB INFORMATION.
2. SIDEWALK RAMPS SHOWN FOR INFORMATION ONLY, LIMITS MAY REQUIRE ADJUSTMENTS TO CONFORM WITH REQUIRED MAXIMUM GRADES (SEE CURB RAMP DETAILS).

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603/431-6196

Larger Place
55 So. Commercial Street
Manchester, NH 03101
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10 Free Street
Portland, Maine 04101
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info@cmaengineers.com
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designed by: JJB
drawn by: JJB/SCK
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scale: 0 20' 40'

date: August 2016
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City of Portsmouth, NH
Community Development Department

Gosling Road
Pedestrian, Bike & Related Improvements

General Plans

drawing no. G-2

sheet: 14 of 16

M:\CADD\PROJECTS\996-Portsmouth\Production\996 - GenPlans.dwg Date Plotted: Aug 12, 2016 - 12:10pm Plotted By: JBEAUDET

1 STA 201+93.8, LT 39.3' TO 201+88.0, LT 14.0'
CONSTRUCT 24" X 15" RCP (2000D)
INV ELEV = 44.0 @ +93.8, LT 39.3'
CONSTRUCT 3'W X 8'W X 6'L STONE FILL CLASS C AT OUTLET
CONSTRUCT MORTAR RUBBLE MASONRY HEADWALL +93.8, LT 39.3'
CONSTRUCT CB-B AT +88, LT 14.0'
GRATE = 48.5
INV OUT = 44.5

MATCH LINE
MATCH TO SHEET G-4

LIMIT OF
ADD ALTERNATE A

34-3-1
BUILDING ONLY

Palustrine, Emergent, Nonpersistent, Seasonally Flooded (PEM2C)

34-3-2

Palustrine, Emergent, Nonpersistent, Seasonally Flooded (PEM2C)

EASEMENTS IN FAVOR OF SOCONY VACUUM OIL COMPANY PER RCRD 1019/322, 1058/278, 1758/022, 1906/346 & 2126/443

LIMITS OF DRAINAGE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2882/2064

INV OUT 15"RCP= 41.44

STA 200+67
LIMIT OF WORK
MATCH EXISTING

EDGE OF DELINEATED WETLANDS

PERMANENT EASEMENT

ADD POLE WITH OVERHEAD LIGHTING

SILT SOCK

SLOPE LINE

STONE OUTLET PROTECTION

BUS SHELTER

STA 203+32
LIMIT OF WORK
MATCH EXISTING

RRFB

RELOCATE BUS SIGN

5' SIDEWALK

8' SIDEWALK

PAVED BUS PULL OUT

6' CROSSWALK

REMOVE CHANNEL DRAIN WITHIN RECONSTRUCTION LIMITS AND PLUG OPEN END (SUBSIDIARY TO COMMON EXC.)

RRFB (DOUBLE SIDED)
PERFORM TEST PIT TO COMFIRM WATER MAIN LOCATION (SUBSIDIARY)

ADD OVERHEAD LIGHTING

ADJUST (SUBSIDIARY)

8' CROSSWALK

5' GRASS BUFFER

EXISTING BUS STOP

8' MULTI-USE PATH

200' RADIUS AT CENTERLINE OF MULTI-USE PATH

BUS SHELTER

PERMANENT EASEMENT

REMOVE

239-12

GOSLING ROAD

WINSOR ROAD

N58°55'41.56"E
L=400.08'

N56°23'01.92"E
L=438.00'

R1-1
(STA 113+92)

R1-1
(STA 113+28)

M4-6
D11-1
(STA 114+75)

18" SSLW(T)

TBM 4
SPIKE SET IN UTILITY POLE
PSNH 191 5
ELEV= 51.32
(1.0 ABOVE GND.)

MATCH LINE
MATCH TO SHEET G-2

NOTES:

1. SEE SHEET G-1 FOR CURB INFORMATION.
2. SEE SHEET G-2 FOR SIGN INFORMATION.
3. SIDEWALK RAMPS SHOWN FOR INFORMATION ONLY, LIMITS MAY REQUIRE ADJUSTMENTS TO CONFORM WITH REQUIRED MAXIMUM GRADES (SEE CURB RAMP DETAILS).

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
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designed by: JJB
drawn by: JJB/SCK
approved by: DH
scale: 0 20' 40'
date: August 2016
project no: 996
file name: 996 - GenPlans.dwg

City of Portsmouth, NH
Community Development Department
Gosling Road
Pedestrian, Bike & Related Improvements
General Plans

drawing no. G-3
sheet: 15 of 16

M:\CADD\PROJECTS\996-Portsmouth\Production\996 - GenPlans.dwg Date Plotted: Aug 12, 2016 - 12:10pm Plotted By: JBEAUDET

Palustrine, Emergent, Nonpersistent, Seasonally Flooded (PEM2C)

EASEMENTS IN FAVOR OF SOCONY VACUUM OIL COMPANY PER RCRD 1019/322, 1058/278, 1758/022, 1906/346 & 2126/443

EDGE OF DELINEATED WETLANDS

ARCHED CMP 36" X 48" INV IN= 38.80

RWC

10' WIDE EASEMENT IN FAVOR OF NORTHERN UTILITIES

CUMBERLAND FARMS

34-2

LIMITS OF SLOPE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2458/711

PAVED WALK

STA 203+32
LIMIT OF WORK
MATCH EXISTING

GRASS

GRAVEL

AREA WITH DEEP PONDED POTHOLES

GAS SUB-STATION

SIGN

CB# 23

CB# 24

CB# 22

DMH# 4

NHHB

L3

EOP

VGC

SGC

GOSLING ROAD

WOODBURY AVENUE

N57°32'08.56"E
L=419.72'

N59°18'26.88"E
L=197.92'

115+00

116+00

117+00

118+00

119+00

120+00

5' GRASS BUFFER

D11-1
(STA 115+75)

END 8' MULTI-USE PATH

3' GRASS BUFFER

8' CROSSWALK

5' SIDEWALK

4' PAVED WALK

G-21

G-22

G-23

18" SSLW(T)

RESET FENCE

CB# 20

CB# 21

CB# 19

CB# 18

M4-6
D11-1
(STA 114+75)

R1-1
(STA 115+75)

PERMANENT EASEMENT

#48 #50 #52 #54 #56 #31 #58

WEALD ROAD

239-12

MOBIL

239-11

STA 117+39
END PROJECT
MATCH EXISTING

TBM 5
SURVEY NAIL SET IN TOP OF CONCRETE PAD OF SIGNAL CONTROL PANEL
ELEV= 52.40

LIMITS OF SLOPE EASEMENT IN FAVOR OF THE STATE OF NEW HAMPSHIRE SEE RCRD 2461/163

MATCH LINE
MATCH TO SHEET G-3

NOTES:

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drawing no. G-4

sheet: 16 of 16