BEDFORD PUBLIC WORKS

November 20, 2013 **MEMORANDUM**

TO: Jessie Levine, Town Manager

FROM: Jim Stanford, Director of Public Works

SUBJECT: 2014 Proposed Bond – Road List

Included herein, please find the updated road list of major work that would be included in the proposed $30,000,000 bond authorization.

Consistent with the Town's current Roads Program, proposed road work is broken into 4 general categories:

Reclaim/Overlay	The existing pavement is reclaimed and a new asphalt binder/wearing course placed. Collector Roads receive drainage upgrades while Local roads receive minor repairs.
Structural Overlay	Sections of the existing roadway may be removed/repaired and then the entire roadway receives a new asphalt wearing course.
Maintenance	Crack seal, supplement edge gravel, clean drainage system and limited pavement patching.
Bridge/Major Culvert Program	Replace deficient bridges and culverts.

The current unfunded backlog of roads within all four categories totals $34,000,000 including, $20,000,000 in Reclaim/Overlays and $7,000,000 in Structural Overlays, $4,000,000 in Maintenance and $3,000,000 in Bridge/Major Culvert projects. It should also be noted that there are several streets (see sheet 6) not included in the proposed road bond work, because they are already funded under the 2011 Infrastructure Bond or South River Road TIF Project.

It can't be stressed enough that the attached list of major road work is a snapshot of the latest conditions. Given that the work under the proposed road bond will not begin until 2015 and will take at least 6 years to complete, it is likely that other roads, while not currently identified, will require major repair. In that time span, it is also possible that roads that are anticipated to receive a structural overlay may deteriorate and require a higher level (more costly) repair.

The current backlog of all necessary work exceeds the $30,000,000 bond proposal, however the program will be supplemented by the annual local $1,000,000 roads appropriation within the Public Works operating budget. Given that road conditions change over time, it may be necessary to increase this local appropriation to keep up with the maintenance needs.

It is also important to note that we do not pre-engineer road work and therefore the current backlog cost is an estimate based on road dimensions and typical construction costs for the repair category. As seen over the last 10 years, dramatic changes (increases) in construction/asphalt costs can severely impact the amount of work that can be completed within a proposed budget, especially when the scheduled work encompasses several years. As with our previous bonds/Road Program, we believe that some of the inherent uncertainty in project costs can be offset by the bulk purchasing of larger construction projects, but it should be expected that changes in the program/budget may be needed in order to complete all roads currently identified.

2014 ROAD BOND
PROPOSED RECLAIM AND OVERLAY ROADS

ROAD NAME	FROM	TO	LENGTH (ft)
1ST ST	WORTHLEY RD	END	482
2ND ST	WORTHLEY RD	END	787
3RD ST	WORTHLEY RD	END	379
BACK RIVER TER	BACK RIVER RD	BACK RIVER RD	881
BARRINGTON DR	OLDE ENGLISH RD	538 NORTH	538
BEAVER BROOK RD	NORTH AMHERST RD	BROOKVIEW TER	908
BEAVER LN	RT. 101	ELK DR	2,848
BEDFORD CENTER RD (Seg 1)	ROUTE 101	NO AMHERST RD	2,164
BEDFORD CENTER RD (Seg 3)	MEETINGHOUSE RD	ROUTE 101	3,620
BIRKDALE RD	ESSEX RD	JOPPA HILL RD	6,467
BOXWOOD RD	MCALLISTER RD	OLD FARM RD	2,244
BROOKVIEW TER	BEAVER BROOK RD	END	1,487
BURLEIGH TER	RIDDLE DR	CUL-DE-SAC	335
CAMBRIDGE RD	WALLACE RD	CUL-DE-SAC	7,174
CAMPBELL RD (Segment 1)	NORTH AMHERST RD	MCINTOSH LN	8,656
CEDARWOOD DR	SOUTH RIVER ROAD	CUL-DE-SAC LOOP	717
CHESTNUT DR	HS ACCESS ROAD	CUL-DE_SAC	500
CHICKADEE COURT	SPARROW LN	CUL-DE-SAC LOOP	683
CIRCLE DR	WALLACE RD (N)	WALLACE RD (S)	673
CLIFTON RD	STOWELL RD	CUL-DE-SAC	2,122
CLUB ACRE LN	SOUTH RIVER RD	CUL-DE-SAC LOOP	723
COMMERCE DR WEST	SOUTH RIVER RD	CUL-DE-SAC	1,573
COMMERCE PARK NORTH	SOUTH RIVER RD	DRIVEWAY # 20	1,269
COTE LN	DONALD ST	525' N OF DONALD ST EX	1,049
COVENANT WAY	ROUTE 101	END	853
CURTIS CT	CURTIS LN	END	398
CURTIS LN	DONALD ST	END	1,476
DAM LN	BEAVER BROOK RD	CUL-DE-SAC LOOP	688
DARLING ST	SAVOIE ST	END	1,104
FREEDOM WAY	ROUTE 101	CUL-DE-SAC	1,050
GAGE RD	NASHUA RD	LIBERTY HILL ROAD	5,235
GARRISON DR	OLD BEDFORD RD	CUL-DE-SAC	1,759
GAULT RD	LIBERTY HILL RD	PATTEN RD.	4,502
GLEN RD	END	WENDOVER WAY	2,377
GRAFTON DR	BEALS RD	WENTWORTH DR	3,351
GRANDVIEW LN	HICKORY LN	HOLBROOK RD	401
GREY ROCK RD	ROUTE 101	CUL-DE-SAC LOOP	3,146
HALL ST	SWAN AVE	END	439
HARROD LN	SMITH RD	TAVISTOCK DR	1,724
HARVEY RD	SOUTH RIVER RD	AUTUM LN	2,638
HEATHER DR	TEABERRY LN	SEBBINS POND DR	907
HICKORY LN	HOLBROOK RD	CUL-DE-SAC	2,398
HILLTOP DR	TOWN LINE	END	399
HOLBROOK RD	NEW BOSTON RD	OLD BEDFORD RD	2,691
HUNTERS RD	ROUTE 101	CUL-DE-SAC	1,538
JOHNSON ST	SWAN AVE	END	525
JOPPA HILL RD (Segment 5)	NEW BOSTON RD	POLLY PEABODY RD	2,495
* JOPPA HILL RD (Segment 2)	OLD EVERGREEN RD	NORTH AMHERST RD	4,851
KAHLIKO LN	ROUTE 101	HITCHING POST LN	2,021
KEENE ST	BOYNTON ST	END	543
LANE DR	WALLACE RD	CUL-DE-SAC	463
LIBERTY HILL RD	ROUTE 101	BEDFORD CENTER RD	558
LINDAHL RD	NEW BOSTON RD	ORIOLE DR	299
LINDAHL RD	BLACKBIRD LN	HAWK DR	1,354
MAPLE DR	GAULT RD	GAULT RD	2,764
MERRY ST	DARLING ST	DONALD ST	249
MOORE'S CROSSING RD	SOUTH RIVER RD	END	1,639
MULBERRY LN	HEATHER LN	SANDY POND PARKWAY	2,568
OAK DR	MEETINGHOUSE RD	CUL-DE-SAC	2,963
OLD BEDFORD RD	DONALD ST	HOLBROOK RD	6,520
OLD FARM RD	WILDWOOD DR	MINISTERIAL RD	3,616
PATTEN RD	MATTHEW PATTEN RD	COUNTY RD	2,354
PHEASANT RUN	GAGE RD	END	2,709
PINECREST CIR	PINECREST DR	CUL-DE-SAC	686
PLUMMER HILL RD	ROUTE 114	GOFFSTOWN TOWN LINE	869
PLYMOUTH ST	MANCHESTER TOWN LINE	END	487
ROBLIN RD	HOLBROOK RD	CUL-DE-SAC	999

2014 ROAD BOND
PROPOSED RECLAIM AND OVERLAY ROADS

ROAD NAME	FROM	TO	LENGTH (ft)
ROOSEVELT DR	KENNEDY DR	JEFFERSON RD	1,218
ROYAL ST	WALLACE RD	BOURBON ST	860
RUTLEDGE RD	WALLACE RD	CUL-DE-SAC LOOP	893
SANDSTONE DR	DONALD ST	CUL-DE-SAC	2,056
STEPHANIE DR	TIRRELL RD	CUL-DE-SAC LOOP	1,451
STEPHEN DR	HAZEN RD	CUL-DE-SAC	1,054
STRAWBERRY HILL RD	LIBERTY HILL RD	RANDOM RD	2,493
SWAN AVE	DONALD ST	HALL ST	921
TAVISTOCK DR	MEADOWCREST DR	HARVARD LN	1,532
SUNSET LN	SOUTH RIVER RD	END	748
TEABERRY LN	COUNTY RD	CUL-DE-SAC	898
TIFFANY LN	HARDY RD	CUL-DE-SAC LOOP	1,095
TIMBERLANE DR	HOLBROOK RD	HICKORY LN	1,787
TOLFORD HILL RD	BIRKDALE RD	CUL-DE-SAC	1,321
VALLEY VIEW DR	KAHLIKO LN	CUL-DE-SAC	225
VERONICA DR	SMITH RD	HORIZON DR	3,000
WALLACE RD	N AMHERST RD	CHUBBUCK RD	8,874
WAYSIDE DR	RUTH ST.	BOYNTON ST	749
WENDOVER WAY	END	BLUEBERRY LN	4,077
WENTWORTH DR	GAGE GIRLS RD	GRAFTON DR	4,202
WEST WIND DR	OLDE ENGLISH RD	CUL-DE-SAC	573
WEYMOUTH DR	QUINCY DR	HUNTERS RD	2,125
WHITNEY COURT	CAMPBELL RD	CUL-DE-SAC LOOP	924
WINCHESTER LN	STOWELL RD	CUL-DE-SAC LOOP	1,280
WINDSONG CIR	BEAVER LN (N)	BEAVER LN (S)	1,922
WOODLAWN AVE	DONALD ST	END	589
WORTHLEY RD	RUNDLETT HILL RD	MANCHESTER TOWN LINE	2,983
YORK RD	BIRKDALE RD	CAMBRIDGE RD	753

** Portion of Joppa Hill Rd included in 2013 project*

TOTAL ESTIMATED COST $20,000,000

2014 ROAD BOND
PROPOSED STRUCTURAL OVERLAY ROADS

ROAD NAME	FROM	TO	LENGTH (ft)
ADAMS' GREEN	BAILEY'S GREEN	BAILEY'S GREEN LOOP	1,087
BALDWIN LN	CORTLAND LN	CUL-DE-SAC LOOP	1,012
BARRINGTON DR	538 FT NORTH	CUL-DE-SAC LOOP	6,677
BEECH ST	STOWELL RD	CUL-DE-SAC	863
BENNING WAY	WALLACE RD	END	582
BLANFORD PLACE	ELK DR	N. AMHERST RD	3,548
BRACKEN BRANCH	BRACKEN CIR	CUL-DE-SAC LOOP	446
BRACKEN CIR	MCAFEE FARM RD	MCAFEE FARM RD	2,103
BRIAR RD	WALLACE RD	CUL-DE-SAC	2,556
BUTTERFIELD LN	PASTURE LN	CUL-DE-SAC LOOP	1,653
CAMELOT DR	LIBERTY HILL RD	LOOP BACK	6,299
CANTERBURY LN	JOPPA HILL RD	CUL-DE-SAC	1,095
CONSTANCE ST	WORTHLEY RD	SANDSTONE DR	2,489
COTTAGE WALK	GREENFIELD PARKWAY	GREENFIELD PARKWAY	1,177
DAVIES ST	BOYNTON ST	END	400
DEARBORN LN	GREY ROCK RD	CUL-DE-SAC LOOP	736
DERY ST	LAWES AVE	MANCHESTER CITY LINE	476
DEVONSHIRE WAY	MEADOWCREST DR	CUL-DE-SAC LOOP	778
DUNLAP DR	ESSEX RD	NEW BOSTON RD	3,701
ELK DR	ROUTE 101	BLANFORD PLACE	3,115
ESSEX RD	CAMBRIDGE	MARSTON DR	3,555
FEDERATION RD	BEALS RD	COL DANIELS DR	3,821
GALLOWAY LN	OLD BEDFORD RD	CUL-DE-SAC LOOP	1,414
GENDRON ST	DERY ST	END	237
GREEN MEADOW LN	SMITH RD	VERONICA DR	4,188
GREENFIELD PKWY	WALLACE RD	LIBERTY HILL RD	8,683
HAWTHORNE DR	38 HAWTHORNE DR	RT3	1,880
HERSEY ST	TOWN LINE	PLUMMER RD	1,358
HULL RD	SOUTH RIVER RD	END	497
JACKSON SQUARE	WALLACE RD (N)	WALLACE RD (S)	1,648
LINDAHL RD	ORIOLE DR	BLACKBIRD LN	864
MACK ST	HERSEY ST	CUL-DE-SAC LOOP	1,371
MAIDEN LN	BRICKMILL RD	CUL-DE-SAC	1,121
MEADOWCREST DR	LIBERTY HILL RD	TAVISTOCK DR	5,852
MEETINGHOUSE RD (segment 5)	ROUTE 101	BEDFORD CENTER ROAD	891
MIDDLETON DR	JOPPA HILL RD	MCAFEE FARM RD	1,370
N AMHERST RD (Segment 3)	WALLACE RD	NO NAME STREET	270
NATHAN CUTLER DR	CIRCLE/END	WALLACE RD	3,315
NEWCASTLE LN	GOLDEN DR	CUL-DE-SAC LOOP	1,102
NEWFANE RD	HAWK DR	POWDER HILL RD	3,900
NORMAND CIR	PARKER LN	PARKER LN	3,175
OLD EVERGREEN RD	BRACKEN CIR	JOPPA HILL RD	1,470
OLDE BEDFORD WAY	RT 101 NORTH	OLD BEDFORD RD	1,452
ORCHARD HILL CIR	MEETINGHOUSE RD	MEETINGHOUSE RD	1,518
PARKER LN	JOPPA HILL RD	NORMAND CIR	946
PLUMMER RD	BOYNTON ST	WENDOVER WAY	3,897
POWDER HILL RD	CHESTERFIELD PL	CAMPBELL RD	7,764
PULPIT RD	MOUNTAIN RD	NEW BOSTON RD	6,336
RANDOM RD	STRAWBERRY HILL RD	STRAWBERRY HILL RD	1,919
ROCKBOUND RD	PULPIT RD	END	762
ROCKWOOD CT	NORTH AMHERST RD	CUL-DE-SAC LOOP	1,504
RUNDLETT HILL RD (Segment 2)	DONALD ST	MIDWAY	1,947
SAVOIE ST	DONALD ST	CUL-DE-SAC	1,454
SEABEE ST	WAYSIDE DR	END	2,318
SERVANT ST	CUL-DE-SAC	END	917
SETON DR	BEALS RD	BEALS RD	3,501
SHEPHERD HILL RD	QUINCY DR	CUL-DE-SAC LOOP	1,042
SOUTH RIVER RD	NH 101	BACKRIVER RD	2,951
STAGE COACH LN	WALLACE RD	CUL-DE-SAC LOOP	355
THREE CORNERS RD	PULPIT RD	POND POINT DR	774
WOLFE LN	WALLACE RD	CUL-DE-SAC LOOP	366

TOTAL ESTIMATED COST ***$7,000,000***

PENDING ROAD PROJECTS ALREADY FUNDED

TIF PROJECT

ROAD NAME	FROM	TO	LENGTH (ft)
BEAUDOIN ST	SOUTH RIVER RD	END	859
COLBY CT	SOUTH RIVER RD	End of Public Way	4,193
EASTMAN AVE	SOUTH RIVER RD	END	1,031
PARK DR	SOUTH RIVER RD	END	890
UPJOHN ST	SOUTH RIVER RD	End of Public Way	375
WATHEN RD	SOUTH RIVER RD	CUL-DE-SAC	966
SOUTH RIVER RD	MANCHESTER TOWN LINE	NH 101	5,000

2011 INFRASTRUCTURE BOND

ROAD NAME	FROM	TO	LENGTH (ft)
SANDY POND PARKWAY	SEBBINS POND DR	CUL-DE-SAC LOOP	4,757
SEBBINS POND DR	COUNTY RD	END	4,613
GOLDEN DR	JOPPA HILL RD	CAMPBELL RD	2,544
DARBY LANE	JOPPA HILL RD	ROSEWELL RD	2,505
WALLACE RD	MERRIMACK TOWN LINE	NH 101	13,000