

GRADING AND DRAINAGE NOTES:

- SEE SHEET 1 FOR REFERENCES AND LEGEND.
- LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK, CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AND LOCAL MUNICIPAL UTILITY DEPARTMENTS TO ACCURATELY LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY COMPANIES / DEPARTMENTS OF ANY UTILITIES DAMAGED DURING CONSTRUCTION. ANY COSTS RELATED TO THE REPAIR OF UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE PERFORMED UNTIL ALL UTILITY COMPANIES HAVE BEEN NOTIFIED.
- PRIOR TO CONSTRUCTION AN EROSION CONTROL BARRIER (ECB) SHALL BE PROVIDED AT THE EDGE OF THE DEVELOPMENT AREA AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE ECB THROUGHOUT ALL PHASES OF CONSTRUCTION AS WELL AS COMPLYING WITH ANY OTHER CONDITIONS ESTABLISHED IN THE APPLICABLE PERMITS.
- ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- EXISTING PAVEMENT SHALL BE SAW CUT, AND NEW PAVEMENT SHALL BE BLENDED SMOOTHLY TO MEET CUT EDGES.
- ALL UTILITY COVERS, GRATES, HATCHES, ETC., SHALL BE FLUSH WITH THE PAVEMENT FINISHED GRADE.
- FINAL GRADES SHALL BE PITCHED EVENLY BETWEEN SPOT ELEVATIONS.
- ALL GRADES IN HANDICAPPED ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION (PER 521 CMR 23.4.3).
- ALL GRADES IN HANDICAPPED ACCESSIBLE WALKWAYS SHALL NOT EXCEED 5% (PER 521 CMR 22.3) AND SHALL NOT HAVE A CROSS PITCH OF MORE THAN 2% (PER 521 CMR 22.3.1).
- RIPRAP APRONS SHALL BE PROVIDED AT ALL FLARED ENDS AND HEADWALLS.
- RETAINING WALL(S) TO BE DESIGNED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ENGINEERED STRUCTURAL DRAWINGS FOR RETAINING WALL(S) WHERE REQUIRED BY CODE.
- SEE SHEET 4- UTILITY PLAN FOR DRAINAGE SCHEDULE OF ELEVATIONS.
- SEE DETAIL SHEETS FOR DETENTION AND INFILTRATION SYSTEM SCHEDULE OF ELEVATIONS.

DRAINAGE RIM AND INVERT SCHEDULE

CB-01	R= 211.50	I= 208.30	12"	D-08	CPE Type 5	TO	DMH-01
CB-02	R= 226.00	I= 223.50	12"	D-01	CPE Type 5	TO	DMH-02
CB-03	R= 224.00	I= 221.75	10"	D-03	CPE Type 5	TO	DMH-02
CB-04	R= 218.75	I= 214.75	12"	D-10	CPE Type 5	TO	DMH-03
CB-4E	R= 223.90	I= 217.65	12"	D-09	RCP	TO	DMH-01
CB-6E	R= 216.50	I= 211.70	10"	D-07	Clay	TO	DMH-03
DET-INLET	R= 225.25	I= 221.40	12"	D-02	CPE Type 5	FROM	DMH-02
DET-OUTLET	R= 224.30	I= 220.20	12"	D-02	CPE Type 5	FROM	DET
DMH-01	R= 211.77	I= 208.70	12"	D-04	CPE Type 5	FROM	CB-4E
		I= 208.30	10"	D-05	Clay	FROM	DMH-03
		I= 208.10	12"	D-08	CPE Type 5	FROM	CB-01
		I= 208.10	12"	D-06	RCP	TO	DMH-1E
DMH-02	R= 226.40	I= 223.42	12"	D-01	CPE Type 5	FROM	CB-02
		I= 221.67	12"	D-03	CPE Type 5	FROM	CB-03
		I= 211.67	12"	D-02	CPE Type 5	TO	DET-INLET
DMH-03	R= 217.70	I= 211.08	12"	D-04	CPE Type 5	FROM	DET-OUTLET
		I= 213.70	12"	D-10	CPE Type 5	FROM	CB-04
		I= 211.23	10"	D-07	Clay	FROM	CB-6E
		I= 211.23	10"	D-05	Clay	TO	DMH-01
DMH-1E	R= 211.55	I= 206.46	12"	D-06	RCP	FROM	DMH-01

DRAINAGE PIPE SCHEDULE

D-01	12"	CPE Type 5	L= 17'	S= 0.005
D-02	12"	CPE Type 5	L= 23'	S= 0.012
D-03	12"	CPE Type 5	L= 16'	S= 0.005
D-04	12"	CPE Type 5	L= 116'	S= 0.069
D-05	10"	Clay	L= 95'	S= 0.031
D-06	12"	RCP	L= 37'	S= 0.043
D-07	10"	Clay	L= 16'	S= 0.029
D-08	12"	CPE Type 5	L= 10'	S= 0.020
D-09	12"	CPE Type 5	L= 126'	S= 0.071
D-10	12"	CPE Type 5	L= 23'	S= 0.045

* CB-03 SHALL BE A LOW PROFILE FRAME AND GRATE

SCREENED = EXISTING SOLID = PROPOSED

OPERATION AND MAINTENANCE PROGRAM:

SWEEEPING OF PAVED SURFACES:

- ALL PAVED SURFACES ON-SITE INCLUDING DRIVEWAYS, WALKWAYS AND PARKING AREAS SHALL BE SWEEPED AT LEAST ONCE ANNUALLY TO REMOVE ACCUMULATIONS OF SAND, SILT, LEAVES, AND OTHER DEBRIS.
- SWEEEPING SHOULD OCCUR IN MARCH/APRIL AFTER SNOWMELT HAS OCCURRED AND THAW HAS BEGUN. SWEEPINGS SHALL BE DISPOSED OF AT AN APPROPRIATE LOCATION AWAY FROM STORMWATER MANAGEMENT FACILITIES.

DEEP SUMP CATCH BASINS:

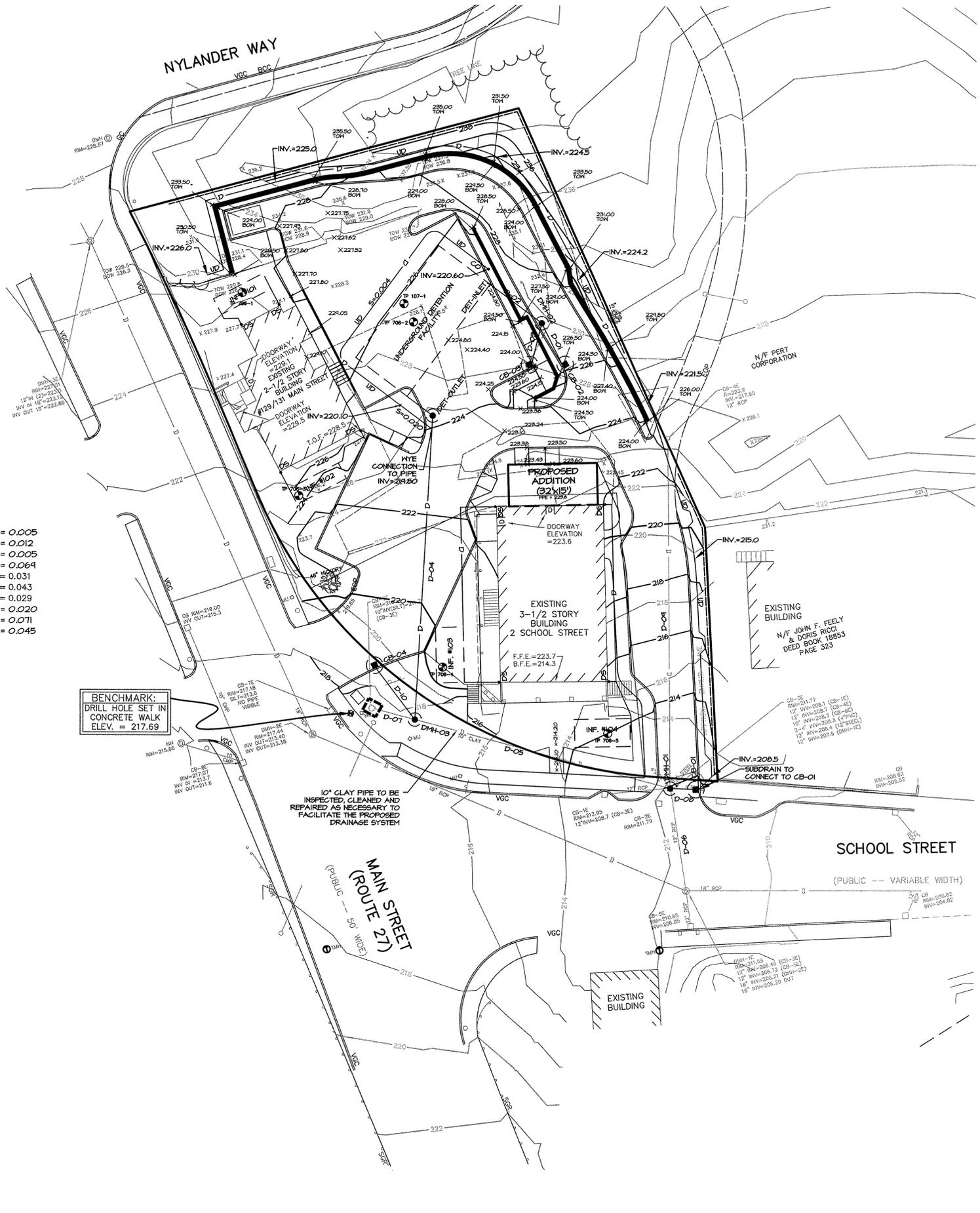
- CATCH BASINS SHALL BE INSPECTED AND CLEANED A MINIMUM OF ONCE PER YEAR.
- ALL SEDIMENTS AND HYDROCARBONS SHALL BE PROPERLY HANDLED AND DISPOSED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

UNDERGROUND DETENTION FACILITIES:

- PRETREATMENT DEVICES (DEEP SUMP HOODED CATCH BASINS) ARE ESSENTIAL TO THE FUNCTIONALITY OF THE UNDERGROUND DETENTION FACILITIES. THE ABOVE MAINTENANCE PLAN SHALL BE FOLLOWED FOR THESE DEVICES.
- DRAIN MANHOLES AT THE OUTLET END OF UNDERGROUND DETENTION FACILITIES SHALL BE INSPECTED AT LEAST TWICE PER YEAR AND AFTER THE FIRST SEVERAL RAINFALL EVENTS AND AFTER ALL MAJOR STORMS. PONDED WATER INSIDE THE INFILTRATION FACILITIES AFTER SEVERAL DAYS OFTEN INDICATES THAT THE BOTTOM OF THE TRENCH IS CLOGGED AND ALL STONE AGGREGATE AND FILTER FABRIC MUST BE REMOVED AND REPLACED.

UNDERGROUND INFILTRATION FACILITIES:

- INSPECTION PORTS ARE PROVIDED AT THE ENDS OF EACH PIPE IN THE SYSTEM TO ALLOW FOR OBSERVATION AND CLEANING OF UNDERGROUND FACILITIES.
- FACILITIES SHALL BE INSPECTED AT LEAST TWICE PER YEAR AND AFTER THE FIRST SEVERAL RAINFALL EVENTS AND AFTER ALL MAJOR STORMS. PONDED WATER INSIDE THE INFILTRATION FACILITIES AFTER SEVERAL DAYS OFTEN INDICATES THAT THE BOTTOM OF THE TRENCH IS CLOGGED AND ALL STONE AGGREGATE AND FILTER FABRIC MUST BE REMOVED AND REPLACED.
- SYSTEMS UNDER PERVIOUS AREAS SHALL REMAIN CLEAR OF GRASS CLIPPINGS, LEAVES, AND SEDIMENT. IF PONDING IS OBSERVED AT THE SURFACE, CORRECTIVE MAINTENANCE SHALL INCLUDE REMOVAL AND REPLACEMENT OF TOPSOIL AND FIRST LAYER OF STONE AGGREGATE AND FILTER FABRIC.
- DOWNHILL SLOPES FROM INFILTRATION AREAS SHALL BE MONITORED WEEKLY DURING CONSTRUCTION AND MONTHLY THEREAFTER FOR THE FIRST YEAR OF OPERATION FOR SIGNS OF BREAKOUT. SEEPAGE FROM DOWNHILL SLOPES SHALL BE AN INDICATION OF A SYSTEM FAILURE AND CORRECTIVE ACTION SHALL BE TAKEN.
- CORRECTIVE ACTION FOR SYSTEM FAILURE SHALL INCLUDE REMOVAL AND REPLACEMENT OF ALL STONE AGGREGATE AND FILTER FABRIC. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE TRENCH BOTTOM AND THE BOTTOM SHALL BE SCARIFIED OR TILLED TO HELP INDUCE INFILTRATION.



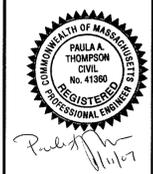
BASIS OF BEARINGS
PLAN BOOK 12757 PAGE 205

SITE PLAN SPECIAL PERMIT
APPROVED
ACTON
BOARD OF SELECTMEN

A MAJORITY OF THE BOARD
DATE: _____

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REV.	DATE	DESCRIPTION	INIT.
D	01/11/07	TOWN REVIEW COMMENTS	
C	10/30/06	TOWN REVIEW COMMENTS	
B	08/24/06	INITIAL ISSUE	
A		B.O.S. DISCUSSION (PROGRESS)	



PREPARED BY:

WATERMAN DESIGN ASSOCIATES, INC.
31 East Main Street
Westborough, MA 01581
508.366.6552
508.366.6506 (fax)
watermandesign.com wda@waddassoc.com

OWNER:
MAIN STREET ACTON CORPORATION & BLUEBIRD REALTY TRUST
2 School Street
Acton, MA

APPLICANT:
BLUEBIRD REALTY TRUST
2 School Street
Acton, MA

TITLE:
GRADING AND DRAINAGE PLAN EXCHANGE HALL
Acton, MA
(Middlesex County)

SITE PLAN SPECIAL PERMIT

DATE: 06/22/06 SCALE: 1" = 20'

JOB NO.: 0197.01 DWN. BY: _____

FILE NO.: 0197200 CHKD. BY: _____

DRAWING NO.: 0197202D SHEET: **3**