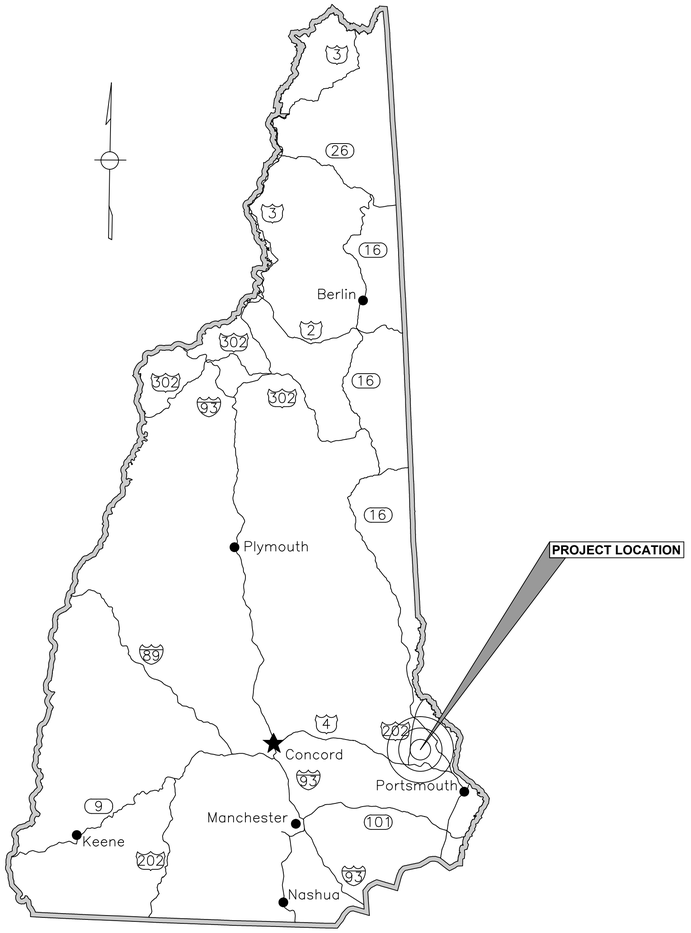
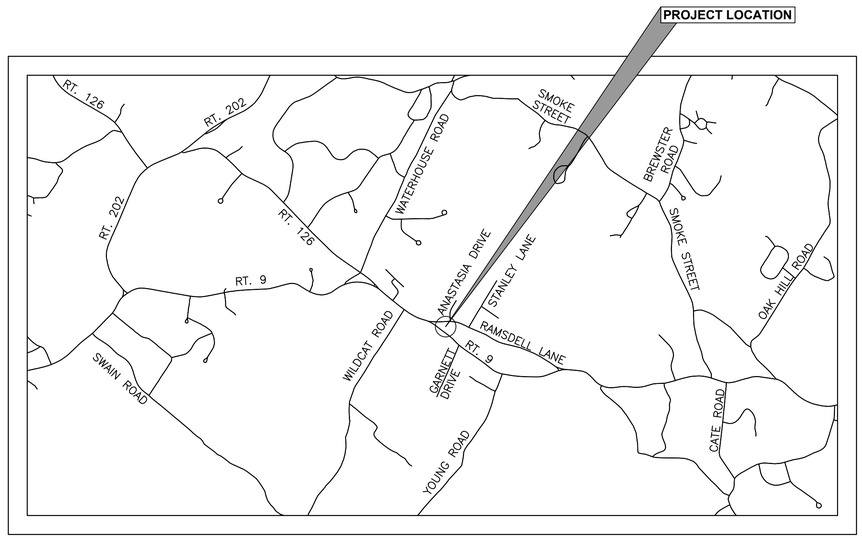
BARRINGTON TOWN OFFICES
RAMSDELL LANE
BARRINGTON, NH

TAX MAP/LOT: 233/000044



LOCUS MAP
NOT TO SCALE



VICINITY MAP
SCALE: 1" = 2,500'

NOT FOR CONSTRUCTION
PRELIMINARY PLANS

GENERAL NOTES

APPLICANT/OWNER: THE TOWN OF BARRINGTON
P.O. BOX 660
333 CALEF HIGHWAY
BARRINGTON, NH 03825

1. PURPOSE OF THESE PLANS IS TO CONSTRUCT AN 11,820 SF TOWN OFFICE BUILDING (10,472 SF FOOTPRINT) AND ASSOCIATED PARKING AREAS. THE EXISTING BUILDING IS TO BE RAZED.
2. LOT SHOWN ON ASSESSOR'S MAP 233–BLOCK–LOT 0044, 137 RAMSDELL LANE, IN THE TOWN OF BARRINGTON, OF STRAFFORD COUNTY, AND OF THE STATE OF NEW HAMPSHIRE.
3. LOT AREA APPROX. 5.48 AC.
4. ZONING DESIGNATION: NEIGHBORHOOD RESIDENTIAL (NR)
5. ZONING REQUIREMENTS:

	REQUIRED	PROVIDED
LOT AREA:	80,000 SF	238,700 SF (5.48 AC)
FRONTAGE:	200 FT	200' (APPROX.)
SETBACKS		
FRONT:	40 FT	40' (APPROX.)
SIDE:	30 FT	30' (APPROX.)
REAR:	30 FT	N/A
MAX. BUILDING HEIGHT:	35 FT (2.5 STORIES)	25 FT (1 STORY)

6. THE EXISTING PARCEL IS CURRENTLY IMPROVED WITH AN ABANDONED 2 STORY BRICK STRUCTURE FORMERLY HOUSING THE BARRINGTON TOWN OFFICES, AS WELL AS A PLAYGROUND AND ATHLETIC FIELDS USED BY THE BARRINGTON SCHOOL DISTRICT. THE PROPOSED USE OF THE PARCEL IS TO CONSTRUCT A NEW TOWN OFFICE BUILDING WHILE MAINTAINING THE EXISTING PLAYGROUND AND ATHLETIC FIELDS, UTILIZING THE PARCEL AS IT HAS BEEN HISTORICALLY.
7. PARKING AREA REQUIREMENTS (SECTION 4.9):
   OFFICE BUILDING: 1 SPACE/300 SF X 11,820 SF = 39.4 ≈ 39 SPACES
   MEETING ROOM: 1 SPACE/4 SEATS X 85 SEATS = 21.3 ≈ 21 SPACES
   (MEETING ROOM IS INTENDED FOR USE AFTER OFFICE BUILDING IS CLOSED, THEREFORE 39 SPACES ARE REQUIRED FOR THE MORE INTENSE OF THE TWO (2) USES.
   SPACES REQUIRED: 39 SPACES
   SPACES PROVIDED: 50 SPACES (INCLUDING 3 ACCESSIBLE)
8. LOT COVERAGE (% IMPERVIOUS SURFACE): MAXIMUM ALLOWED=40%
   EXISTING= 27%
   PROPOSED=23%
9. SANITARY SEWER SOURCE: ON–SITE PRIVATE SEPTIC
10. WATER SUPPLY SOURCE: ON–SITE DRILLED WELL
11. NO ZONING VARIANCES OR SPECIAL EXCEPTIONS HAVE BEEN INDENTIFIED AT THE TIME OF SUBMITTAL:
12. FEMA FLOOD INSURANCE RATE MAP 33017C0285D, EFFECTIVE 5/17/2005
13. PERMITS REQUIRED BY THE TOWN OF BARRINGTON:

PERMIT	APPROVAL NO.
SUBSURFACE	
PUBLIC WATER SUPPLY	
ALTERATION OF TERRAIN	

14. THE FOLLOWING WAIVERS ARE REQUESTED FROM THE SITE PLAN REVIEW REGULATIONS:
    4.9.2(1) TO ALLOW PARKING WITHIN THE FRONT SETBACK
15. CONSTRUCTION ASSUMED TO COMMENCE IN SUMMER OF 2015.
16. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
17. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
18. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE TOWN REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
19. IN ACCORDANCE WITH TOWN REGULATIONS AND RSA 676:13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

APPROVED BY BARRINGTON PLANNING BOARD :

CHAIRMAN **DATE**

DRAWING LIST

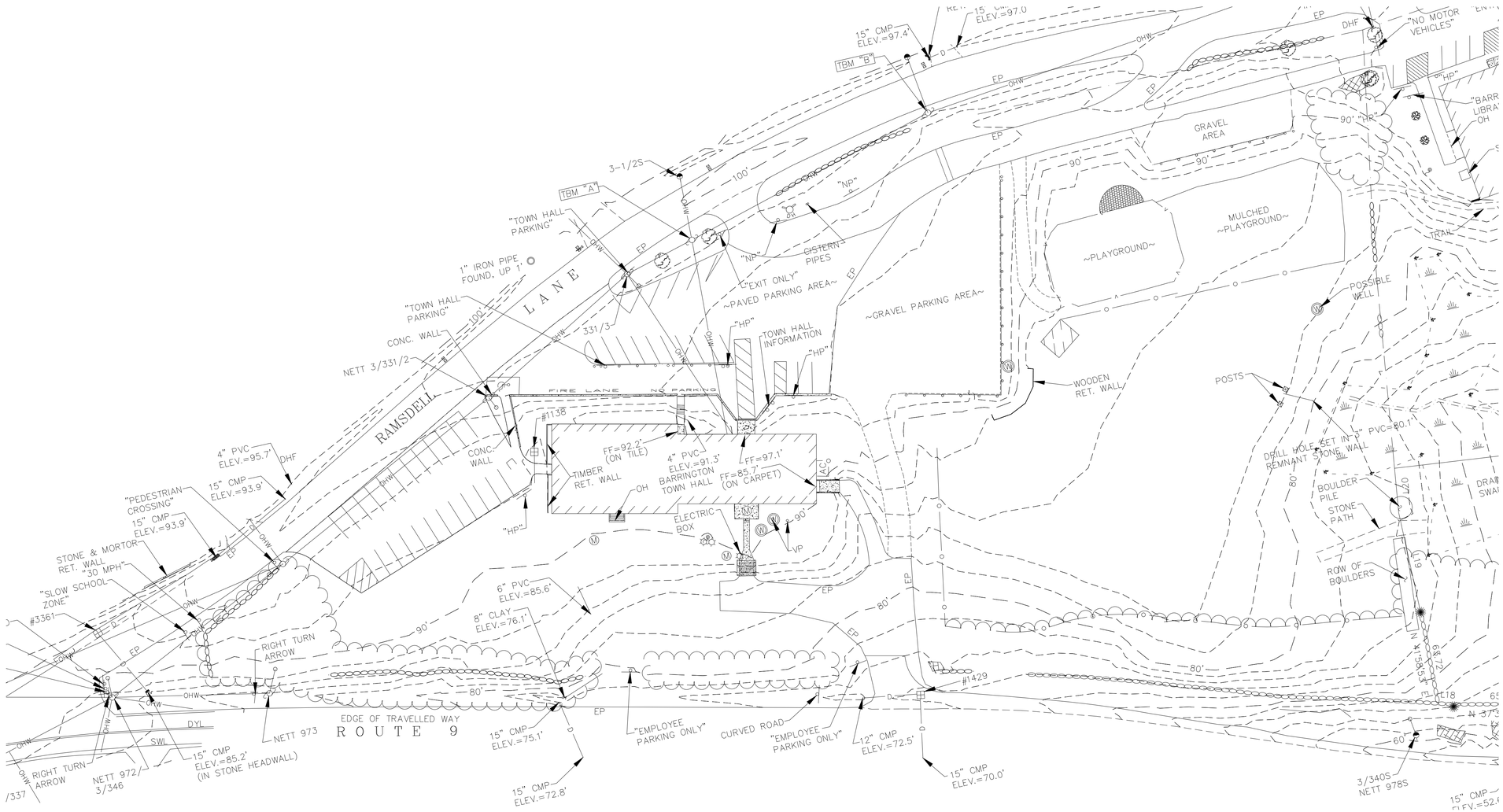
SHEET NUMBER	DRAWING	TITLE
1	G1.1	COVER
2	EC	EXISTING CONDITIONS
3	D1.1	DEMOLITION PLAN
4	C1.1	SITE LAYOUT PLAN
5	C1.2	GRADING AND DRAINAGE PLAN
6	C1.3	UTILITY PLAN
7–11	C1.4–1.8	DETAILS
12	C2.1	WASTEWATER PLAN AND PROFILE
13	C2.2	WASTEWATER DETAILS

NO.	DATE	DESCRIPTION	BY	CK'D
1	3/4/2015	GENERAL REVISIONS, ADD SHEETS C1.5–1.8	MEF	MTO

PREPARED BY:
DuBois & King inc.
18 CONSTITUTION DR.
SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT

© Copyright 2015 Dubois & King Inc.

DRAWN BY: MEF	DATE: FEB. 2015
CHECKED BY: MTO	PROJECT NO.: 322819
PROJECT ENG: JAA	DRAW NO.: G1.1



BENCHMARK TABLE

TBM A
MAG NAIL SET UP 12" IN POLE #PSNH 331/3Y
ELEV.=100.50'

TBM B
MAG NAIL SET UP 12" IN POLE #PSNH 331/4
ELEV.=99.06'

DRAINAGE STRUCTURE TABLE
CB 1138 RIM=91.8' INV. OUT 6" HDPE=89.8'
CB 1429 RIM=73.7' INV. IN 12" CMP=71.3' INV. OUT 12" CMP=71.2'
CB #3361 RIM=90.2' INV. IN 15" CMP=86.3' INV. OUT 15" CMP=86.3'

NOTES:

1. REFERENCE: TAX MAP 233 LOTS 42 (ECLC), 43 (LIBRARY) & 44 (TOWN HALL).
2. FIELD SURVEY PERFORMED BY JFK, RKM & JDG ON 4/10 USING A TRIMBLE 5603 DR 200 PLUS TOTAL STATION WITH A RANGER TDS DATA COLLECTOR AND A SOKKIA B21 AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
3. JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING APRIL 2010 IN ACCORDANCE WITH 1987 CORPS OF ENGINEERS WETLANDS DELINEATIONS MANUAL, TECHNICAL REPORT Y-87-1.
4. HORIZONTAL DATUM BASED ON MAGNETIC OBSERVATION.
5. VERTICAL DATUM IS BASED ON ASSUMED ELEVATION.

HORIZONTAL GRAPHIC SCALE
0 20 40 80
1" = 40'

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

EXISTING CONDITIONS

DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

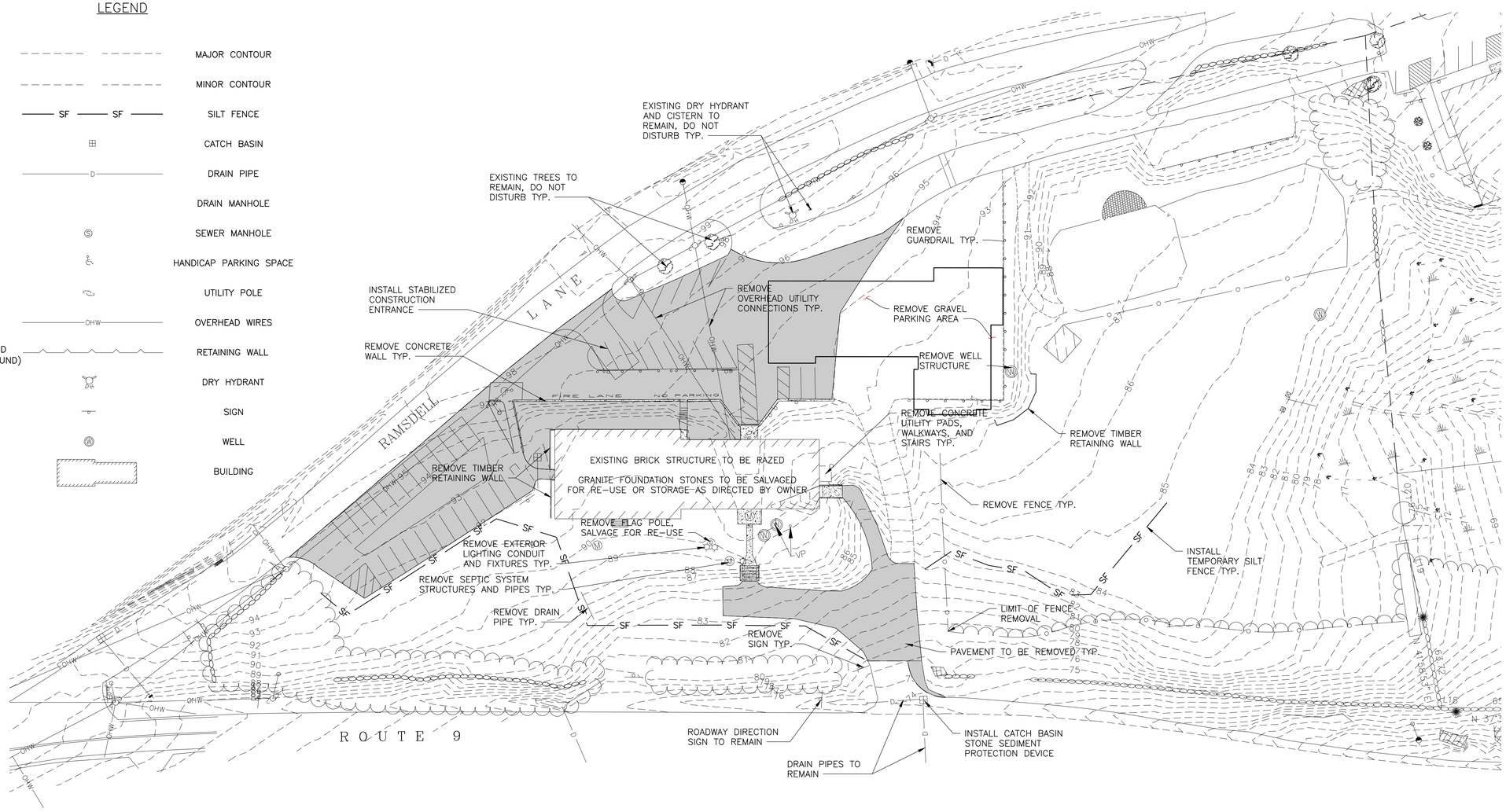
SHEET NUMBER

EC

I:\32819P – Barrington, Town Offices\Drawings\32819-Existing Conditions.dwg 3/4/2015 2:36 PM

LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- SILT FENCE
- CATCH BASIN
- DRAIN PIPE
- DRAIN MANHOLE
- SEWER MANHOLE
- HANDICAP PARKING SPACE
- UTILITY POLE
- OVERHEAD WIRES
- RETAINING WALL (POINTS TOWARD RETAINING GROUND)
- DRY HYDRANT
- SIGN
- WELL
- BUILDING



CIVIL DEMOLITION NOTES:

1. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR SITE CLEARING, THE LIMIT OF WORK SHALL BE CLEARLY MARKED IN THE FIELD (VIA DEMARCATION FENCE) BY THE CONTRACTOR AT 50-FOOT (±) INTERVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK WITHIN THE LIMIT OF WORK AND IS PROHIBITED FROM USING ANY AREA LOCATED OUTSIDE OF SUCH LIMIT.

2. IN THE EVENT LEDGE REMOVAL IS REQUIRED (VIA BLASTING OR JACK-HAMMERING) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AN EXISTING CONDITIONS FILE CONSISTING OF VIDEO, PHOTOGRAPHS AND DOCUMENTATION OF THE PROJECT SITE AND ABUTTING EXISTING FEATURE(S), INCLUDING BUT NOT LIMITED TO, ABUTTERS LOCATED ACROSS ALL STREETS WITHIN THE VICINITY OF THE PROJECT SITE.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED AREAS SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY CONTROL DEVISES SHALL BE DEPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIALS SHALL BE MANAGED IN A MANNER THAT WILL MINIMIZE EROSION. SEE EROSION CONTROL PLAN AND EROSION CONTROL NOTES & DETAIL SHEET FOR SUPPLEMENTAL INFORMATION.

4. SUITABLE EXCAVATED MATERIALS MAY BE INCORPORATED INTO THE PROJECT. THIS PROVISION SHALL IN NO WAY RELIEVE THE CONTRACTOR'S OBLIGATIONS TO REMOVE AND DISPOSE OF ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING OR EXCESS SUITABLE MATERIAL. ALL DISPOSED MATERIAL SHALL BE IN ACCORDANCE TO ALL LOCAL, STATE AND FEDERAL LAWS.

5. ALL EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH O.S.H.A. STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES.

6. THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION ACTIVITIES.

SUGGESTED CONSTRUCTION SEQUENCE:

1. CLEAR AND GRUB ONLY TO THE LIMITS OF CUT AND FILL. COORDINATES IDENTIFIED ON THIS PLAN ARE FOR REFERENCE ONLY AND ARE NOT INTENDED FOR EXACT CLEARING LIMITS.

2. CONSTRUCT TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL FACILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION. SEE EROSION AND SEDIMENTATION CONTROL PLAN, NOTES & DETAIL SHEETS.

3. PERFORM ANY ALL DEMOLITION ACTIVITIES.

4. REMOVE TOPSOIL FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF DISTURBED AREA. UNLESS OTHERWISE DIRECTED, CONTRACTOR SHALL STOCKPILE TOPSOIL AND USE ON THIS PROJECT AS NEEDED IN ACCORDANCE WITH <PROJECT SPECIFICATIONS / NHDOT SECTION 641 – LOAM AND/OR NHDOT SECTION 647 – HUMUS>.

5. CONSTRUCT EMBANKMENT AND SUBGRADE AREAS, INCLUDING ALL REPAIRS AS SHOWN ON THIS PLAN SET; INSTALL UTILITIES.

6. GRADE PROJECT SITE. PLACE TEMPORARY (AND PERMANENT, IF FEASIBLE) LOAM, SEED AND MULCH ON ALL DISTURBED AREAS IMMEDIATELY AFTER CONSTRUCTION OF SAID AREAS.

7. PLACE RIGID CONCRETE AND BITUMINOUS CONCRETE PAVEMENT BASE COURSES.

8. PLACE RIGID CONCRETE AND BITUMINOUS CONCRETE PAVEMENT.

9. COMPLETE PERMANENT SEEDING ON ALL DISTURBED AREAS AND LANDSCAPING PLANTINGS.

10. REMOVE TEMPORARY CONTROL MEASURES AND ACCOMPLISH FINAL CLEAN-UP.

HORIZONTAL GRAPHIC SCALE
0 20 40 80
1" = 40'

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

DEMOLITION PLAN

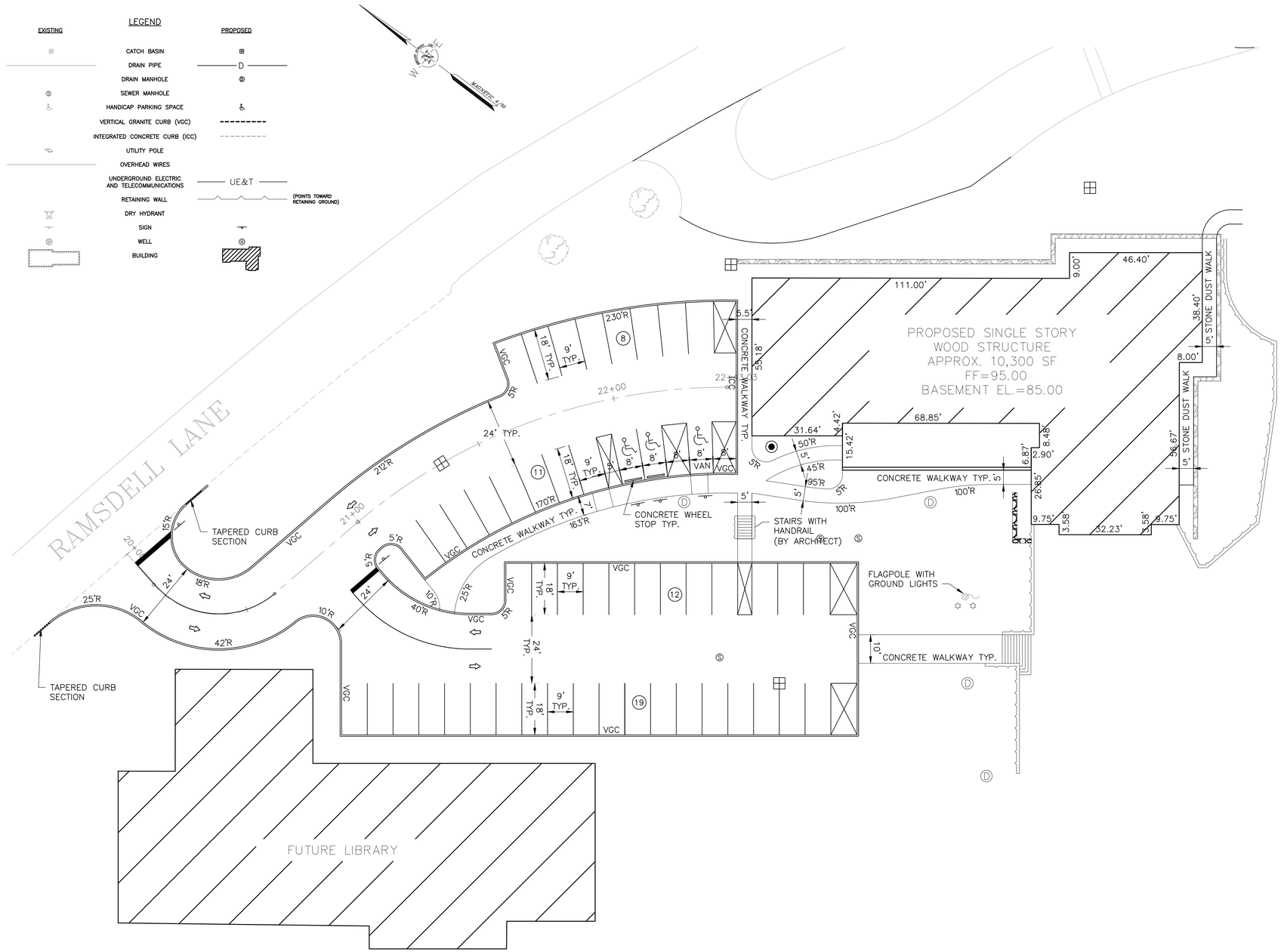
DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

D1.1

SHEET 3 OF 13

I:\32819P – Barrington, Town Offices\Drawings\32819-D1.1 DEMOLITION.dwg 3/4/2015 2:36 PM



GENERAL SITE NOTES:

1. ALL DISPLAY LIGHTING SHALL BE DIRECTED ON–SITE; REFER TO BOTH SITE LIGHTING PLAN AND THE BUILDING LIGHTING PLAN FOR FURTHER DETAILS.
2. ALL SIGNS SHALL CONFORM TO APPLICABLE TOWN OF BARRINGTON REGULATIONS UNDER SECTION _____ OF THE <NAME OF MUNICIPALITY> ZONING ORDINANCE; REFER TO SIGNAGE PLAN FOR FURTHER DETAILS.
3. SITE IMPROVEMENTS DEPICTED ON THE PLAN SHALL CONFORM TO THE MOST CURRENT EDITION OF THE AMERICAN DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN WITH REGARDS TO DIMENSIONS AND GRADES.
4. IT SHALL BE UNLAWFUL TO MODIFY, CHANGE, OR ALTER ANY STRUCTURE SHOWN ON THIS PLAN IN ANY WAY, TO CONVERT OR ALTER ANY STRUCTURE SHOWN ON THIS PLAN, OR CHANGE THE ABOVE USE INDICATED ON THIS PLAN WITHOUT RECEIVING PRIOR APPROVAL FROM THE TOWN OF BARRINGTON PLANNING BOARD.
5. THE APPLICANT SHALL SUBMIT A COPY OF ALL ENVIRONMENTAL PERMITS OBTAINED TO THE TOWN OF BARRINGTON PLANNING BOARD INCLUDING ANNUAL UP–DATES OF STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P) CONTACT INFORMATION.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT'S SCOPE OF WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, IN WRITING, PRIOR TO THE INITIATION OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.
7. IT S THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT DIG SAFE (888–DIG–SAFE) AT LEASE 72 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING "STREET OPENING PERMIT" FROM TOWN OF BARRINGTON DEPARTMENT OF PUBLIC WORKS PRIOR TO PERFORMING ANY WORK WITHIN THE MUNICIPALITY'S RIGHT–OF–WAY(S).
11. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY RIGHT–OF–WAYS AND EASEMENTS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE OWNER HAS SECURED ANY NECESSARY EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION.
12. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN A MANNER CONSISTENT WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
13. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEER AND THE TOWN OF BARRINGTON PUBLIC WORKS DEPARTMENT PRIOR TO PERFORMING ANY ACTIVITIES WITHIN THE MUNICIPALITIES RIGHTS–OF–WAY. THE TOWN OF BARRINGTON POLICE DEPARTMENT (603–664–2700), FIRE DEPARTMENT (603–664–2241), AND PUBLIC WORKS (603–664–0166) ARE TO BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR.
14. THE CONTRACTOR SHALL FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK, UNTIL THE PROJECT HAS REACHED SUBSTANTIAL COMPLETION.
15. ALL DISTURBED AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DISTURBED AREAS SHALL NOT BE LEFT BARE FOR MORE THAN 30 DAYS, SHALL BE STABILIZED IN A MANNER TO MITIGATE EROSION OR SEDIMENTATION FROM EXITING THE LIMIT OF WORK AND SHALL BE RESTORED IN–KIND UPON COMPLETION OF THE PROJECT. THE MAXIMUM AREA ALLOWED TO BE DISTURBED AND LEFT UNSTABILIZED IS TWO (2) ACRES AT ANY ONE TIME. SEE EROSION & SEDIMENTATION CONTROL NOTES SHEET FOR FOR FURTHER DETAIL
16. SUITABLE EXCAVATED MATERIALS MAY BE INCORPORATED INTO THE PROJECT. THIS PROVISION SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THEIR OBLIGATIONS TO REMOVE AND DISPOSE OF ANY MATERIAL DETERMINED BY THE CONTRACTING OFFICER TO BE UNSUITABLE FOR BACKFILLING OR EXCESS SUITABLE MATERIAL.
17. EXISTING SIGNS IMPACTED BY THIS PROJECT SHALL BE RESET AT NO ADDITIONAL COST TO THE OWNER. PLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
18. ALL SITE WORK SHALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH TOWN OF BARRINGTON CONSTRUCTION STANDARDS AS APPLICABLE.
19. ALL WORK SHALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF BARRINGTON AND THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AS APPLICABLE.
20. ALL CONCRETE AND BITUMINOUS PATCH AREAS SHALL MATCH EXISTING GRADES
21. ALL CURB RADII ARE TO THE OUTSIDE FACE.
22. ALL EXCESS SNOW SHALL BE REMOVED TO AN APPROVED OFF–SITE LOCATION.
23. HOURS OF OPERATION: ??–HOURS A DAY / ?–DAYS A WEEK

SITE MAINTENANCE:

1. THE APPLICANT SHALL (QUARTERLY BASIS) INSPECT AND RECORD FINDINGS OF ALL DRAINAGE STRUCTURES, PIPES, OUTLETS AND PONDS TO ENSURE THAT ALL DRAINAGE ITEMS ARE FREE FROM DEBRIS AND IN STABLE CONDITION. IN THE EVENT THAT DRAINAGE ITEMS ARE DETERMINED TO BE IN UNSATISFACTORY CONDITION, THE OWNER SHALL RECORD THE UNSATISFACTORY ISSUE, THE DATE OF THE UNSATISFACTRY FINDING, THE APPROPRIATE CORRECTIVE MEASURE AND THE DATE THE CORRECTIVE MEASURE WAS COMPLETED.
2. THE APPLICANT SHALL (ANNUAL BASIS) SWEEP, COLLECT AND REMOVE WINTER MAINTENANCE SAND, LITTER, SALT, ETC. OF ALL PAVED AND CONCRETE AREAS.
3. THE APPLICANT SHALL (ANNUAL BASIS) INSPECT AND RECORD FINDINGS OF ALL APPARENT EROSION PROBLEMS, DESTABILIZATION OF SIDE SLOPES, EMBANKMENT SETTLING AND OTHER STURCTURAL FAILURES. IN THE EVENT THAT ITEMS ARE DETERMINED TO BE IN UNSATISFACTORY CONDITION, THE OWNER SHALL RECORD THE UNSATISFACTORY ISSUE, THE DATE OF THE UNSATISFACTRY FINDING, THE APPROPRIATE CORRECTIVE MEASURE AND THE DATE THE CORRECTIVE MEASURE WAS COMPLETED.

HORIZONTAL GRAPHIC SCALE
0 10 20 40
1" = 20'

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	3/4/2015	GENERAL REVISIONS	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

SITE LAYOUT

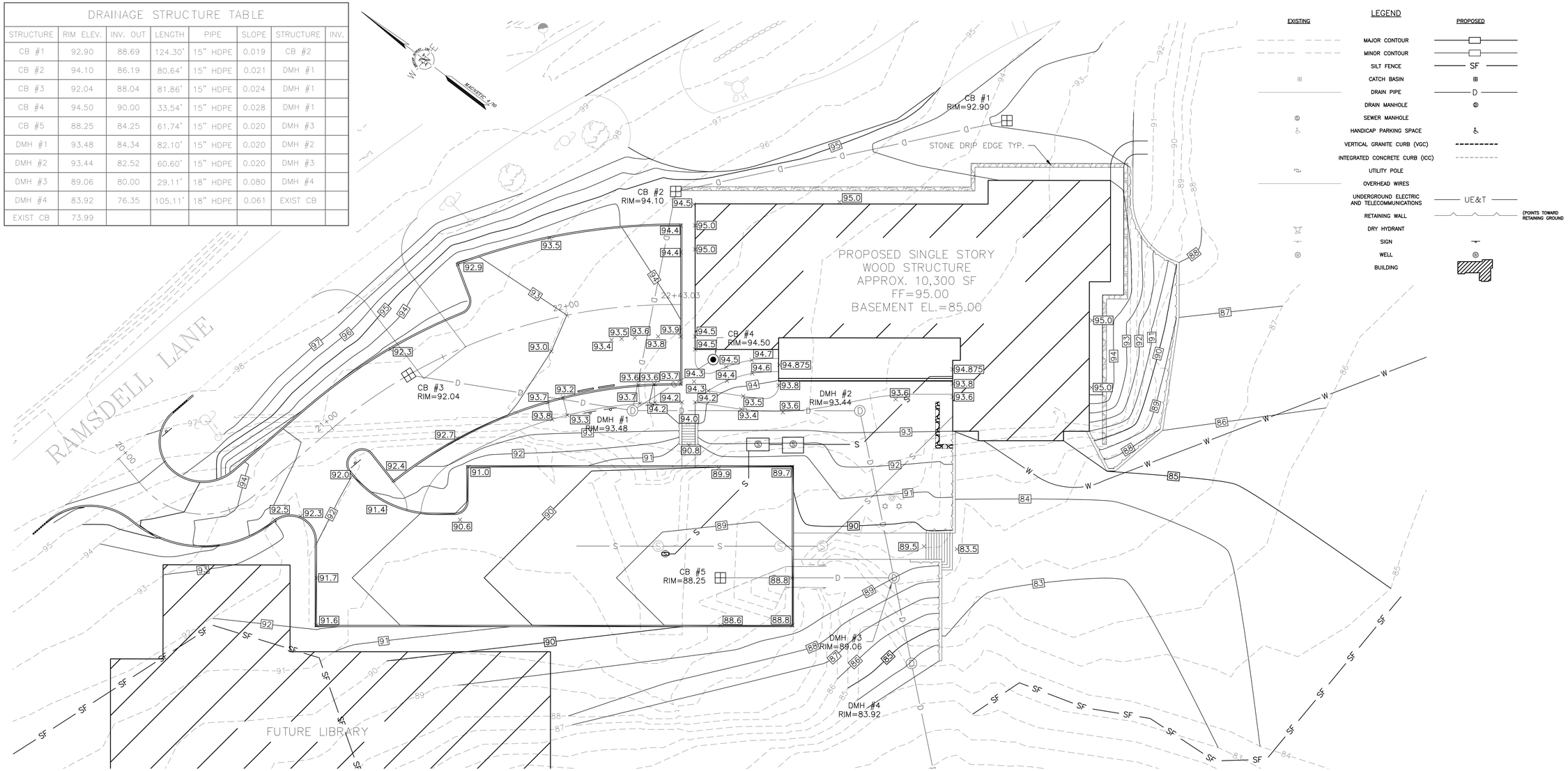
DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

C1.1

I:\32281 9P – Barrington, Town Offices\Drawings\32281 9–C1.1 SITE LAYOUT.dwg 3/4/2015 2:36 PM

DRAINAGE STRUCTURE TABLE							
STRUCTURE	RIM ELEV.	INV. OUT	LENGTH	PIPE	SLOPE	STRUCTURE	INV.
CB #1	92.90	88.69	124.30'	15" HDPE	0.019	CB #2	
CB #2	94.10	86.19	80.64'	15" HDPE	0.021	DMH #1	
CB #3	92.04	88.04	81.86'	15" HDPE	0.024	DMH #1	
CB #4	94.50	90.00	33.54'	15" HDPE	0.028	DMH #1	
CB #5	88.25	84.25	61.74'	15" HDPE	0.020	DMH #3	
DMH #1	93.48	84.34	82.10'	15" HDPE	0.020	DMH #2	
DMH #2	93.44	82.52	60.60'	15" HDPE	0.020	DMH #3	
DMH #3	89.06	80.00	29.11'	18" HDPE	0.080	DMH #4	
DMH #4	83.92	76.35	105.11'	18" HDPE	0.061	EXIST CB	
EXIST CB	73.99						



GRADING NOTES:

1. CONTRACTOR SHALL CONSTRUCT TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL FACILITIES PRIOR TO THE COMMENCEMENT OF EARTHWORK OPERATIONS. EROSION CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, ITEMS IDENTIFIED WITHIN THIS PLAN SET OR WITHIN THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION CONTROL. SEE EROSION CONTROL PLAN AND EROSION CONTROL NOTES & DETAIL SHEET FOR SUPPLEMENTAL INFORMATION.

2. THE CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENTATION CONTROL DEVICES THROUGHOUT THE PROJECT SITE FOR THE DURATION OF THE CONSTRUCTION. THE CONTRACTOR SHALL (DAILY OR AS REQUIRED BASIS) INSPECT AND RECORD FINDINGS OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES TO ENSURE THAT ALL ITEMS ARE IN STABLE CONDITION. IN THE EVENT THAT SAID ITEMS ARE DETERMINED TO BE IN UNSATISFACTORY CONDITION, THE CONTRACTOR SHALL RECORD THE UNSATISFACTORY ISSUE, THE DATE OF THE UNSATISFACTORY FINDING, THE APPROPRIATE CORRECTIVE MEASURE AND THE DATE THE CORRECTIVE MEASURE WAS COMPLETED.

3. ALL DISTURBED AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DISTURBED AREAS SHALL NOT BE LEFT BARE FOR MORE THAN 30 DAYS, SHALL BE STABILIZED IN A MANNER TO MITIGATE EROSION OR SEDIMENTATION FROM EXITING THE LIMIT OF WORK AND SHALL BE RESTORED IN-KIND UPON COMPLETION OF THE PROJECT. SEE GENERAL NOTES OF DEMOLITION SHEET FOR LIMIT OF WORK BOUNDARY DEFINITION. THE MAXIMUM AREA ALLOWED TO BE DISTURBED AND LEFT UNSTABILIZED IS TWO ACRES PER DRAINAGE AREA.

4. ALL SLOPES GREATER THAN 3:1 SHALL BE PROTECTED FROM EROSION WITH APPROPRIATE SLOPE STABILIZATION CONTROL MEASURES PRIOR TO LOAMING, SEEDING AND MULCHING WITHIN 72 HOURS OF COMPLETION. CONTRACTOR SHALL MAINTAIN EROSION CONTROL PROTECTION UNTIL VEGETATION GROWTH HAS BEEN ESTABLISHED. ALL SLOPE STABILIZATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

5. ALL SWALES AND DITCHES WITH SLOPES EXCEEDING 5% SHALL BE PROTECTED FROM EROSION WITH APPROPRIATE STABILIZATION CONTROL MATTING. ALL MATTING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. ALL SWALES AND DITCHES SHALL BE PROPERLY STABILIZED PRIOR TO DIRECTING FLOW TO THEM.

6. THE CONTRACTOR SHALL NOT PLACE PERMANENT PLANTING AND SEEDING PRIOR TO MAY 1st AND AFTER SEPTEMBER 1st.

7. IN GENERAL, FINISH GRADES AROUND BUILDINGS SHALL BE 6 INCHES LOWER THAN FINISH FLOOR ELEVATIONS, UNLESS OTHERWISE NOTED. SEE GRADING PLANS (NORTHERN AND SOUTHERN LIMITS) FOR LOCATION AND FINISH GRADE ELEVATIONS ALONG BUILDING LIMITS.

8. IN GENERAL, FINISH GRADES SHALL BE SLOPED 5% AWAY FROM BUILDINGS FOR A DISTANCE OF 10 FEET FROM THE EXTERIOR WALL OF SAID BUILDING, UNLESS OTHERWISE NOTED.

9. FINISH GRADES OF SIDEWALKS AT BUILDING ENTRANCES SHALL BE 1/4 OF AN INCH LOWER THAN FINISH FLOOR ELEVATION.

10. ALL SIDEWALKS SHALL BE IN ACCORDANCE WITH THE AMERICAN DISABILITY ACT (ADA) REQUIREMENTS, UNLESS OTHERWISE NOTED.

11. SEE SOIL BORING & TEST PIT PLAN FOR FOUNDATION PERIMETER DRAIN LAYOUT INFORMATION.

DEFINITION:

12. STABLE SHALL BE DEFINED AS AREAS THAT DO NOT ERODE (I.E. WEARING AWAY OF LAND BY RUNNING WATER, WAVES, WIND, ICE, ABRASION AND/OR TRANSPORTATION). AN AREA SHALL BE CONSIDERED STABLE IS ONT OF THE FOLLOWING HAS OCCURRED:

12.1. BASE COURSE GRAVELS HAVE BEEN PLACED AND COMPACTED IN AREAS TO BE PAVED.

12.2. VEGETATION GROWTH IS IN ACCORDANCE WITH SPECIFICATION 329200, SECTION 3.05.C.

12.3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL (STONE OR RIPRAP) HAS BEEN INSTALLED.

12.4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

HORIZONTAL GRAPHIC SCALE
0 10 20 40
1" = 20'

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	3/4/2015	GENERAL REVISIONS	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

GRADING AND DRAINAGE PLAN

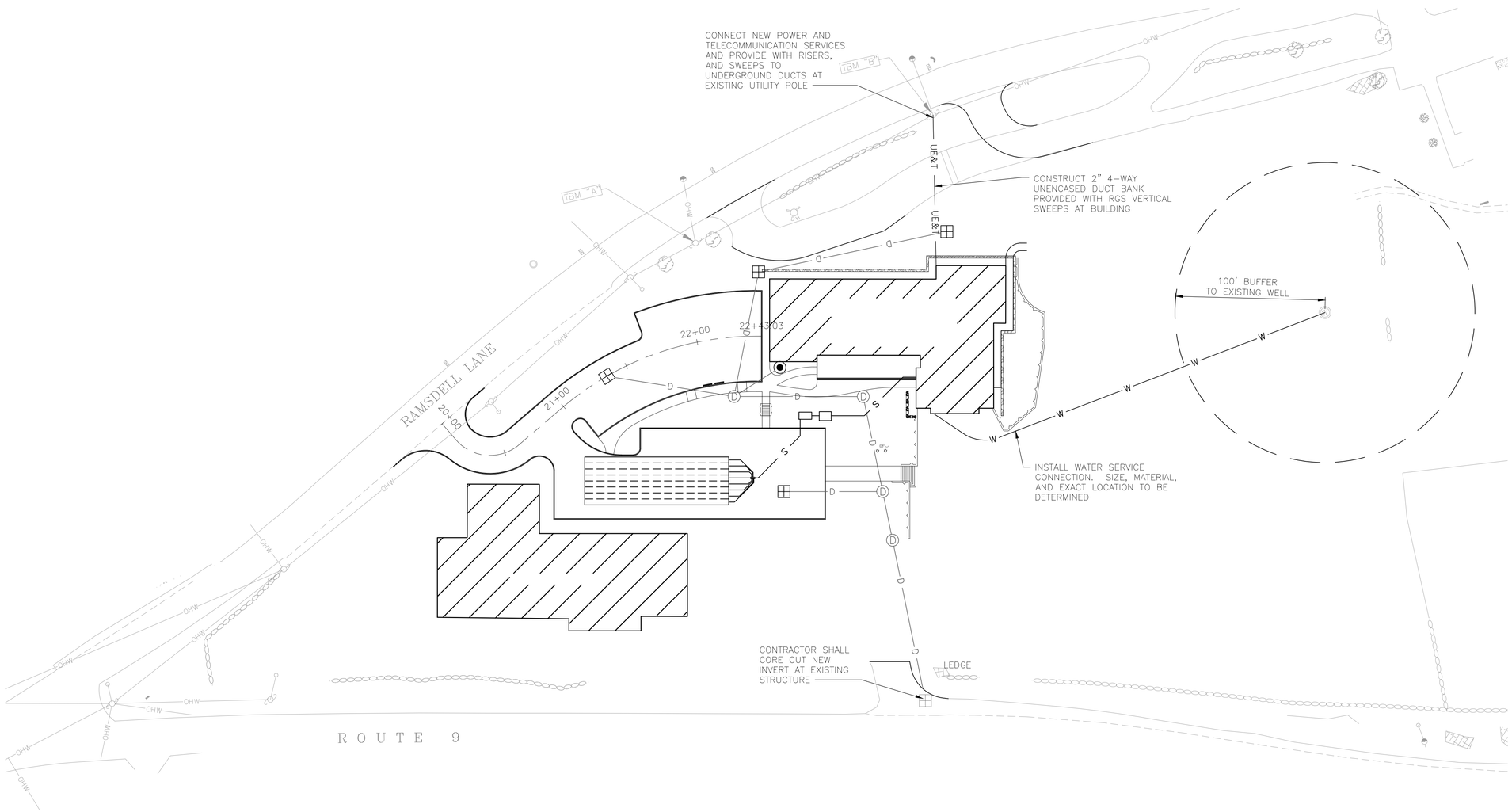
DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

C1.2

SHEET 5 OF 13

I:\322819P - Barrington, Town Offices\Drawings\322819-C1.1 SITE LAYOUT.dwg 3/4/2015 2:37 PM



UTILITY NOTES:

1. BELOW GRADE UTILITY INFORMATION IS BASED ON RECORD DRAWINGS. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE LINES ARE NOT SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL UTILITIES WITH LOCAL UTILITY COMPANIES ALONG WITH NOTIFYING "DIG-SAFE" (1-800-344-7233) AT LEASE 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. ALL UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN THE FIELD PRIOR TO THE INITIATION OF CONSTRUCTION.

2. CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL UTILITY RELOCATION AND INSTALLATION WITH THE APPROPRIATE UTILITY. THE APPROPRIATE UTILITY OR ITS AUTHORIZED REPRESENTATIVE WILL PERFORM ADJUSTMENTS OF ALL UTILITY STRUCTURES. UTILITY CONTACTS ARE AS FOLLOWS:

   WATER: PRIVATE
   SEPTIC: PRIVATE
   ELECTRIC: PSNH PHONE: 800-362-7764
   TELEPHONE: FAIRPOINT PHONE: 888-984-1515
   STORMWATER: PRIVATE

3. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE DEMOLITION PLAN. AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR SHALL REPAIR OR COORDINATE WITH THE RESPECTIVE UTILITY FOR DAMAGE TO UTILITIES.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY FEES.

5. SEE SHEET C1.3 FOR ISOLATED WATER, ELECTRIC, TELEPHONE AND CABLE LAYOUT. SEE SHEETS C1.2 FOR GRADING AND DRAINAGE LAYOUT. SEE SHEET C2.1 FOR SEPTIC TANK AND LEACHING CHAMBER LAYOUT.

6. CONSTRUCTION AND TESTING OF SANITARY UTILITES SHALL BE IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS ASSOCIATED WITH THIS PROJECT.

7. CONSTRUCTION, TESTING AND DISINFECTION OF WATER UTILITES SHALL BE IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS ASSOCIATED WITH THIS PROJECT.

8. WATER SERVICES TO PROVIDED BY AN EXISTING ON-SITE DRILLED WELL AND SIZED

9. CABLE/TV UTILITY SERVICE SHALL BE LOCATED WITHIN THE SAME UTILITY TRENCH AS SUBSURFACE TELEPHONE (UT).

10. ELECTRICAL, TELEPHONE AND CABLE SHALL BE INSTALLED IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY'S INSTALLATION REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH EACH RESPECTIVE UTILITY COMPANY. UTILITY CONDUIT SIZES SHALL BE PER RESPECTIVE UTILITY COMPANY'S STANDARDS OR AS NOTED ON THE PLANS; WHICHEVER IS LARGER. AT A MINIMUM UTILITY SERVICES SHALL BE INSTALLED WITHIN SCHEDULE 80 PVC AND 40 PVC CONDUITS UNDER ROADWAYS AND NON-ROADWAYS AREAS (RESPECTIVELY) UNLESS OTHERWISE NOTED AND SHALL CONSIST OF 3' OF COVER.

LEGEND

EXISTING		PROPOSED
	MAJOR CONTOUR	
	MINOR CONTOUR	
	SILT FENCE	SF
	CATCH BASIN	
	DRAIN PIPE	D
	DRAIN MANHOLE	
	SEWER MANHOLE	
	HANDICAP PARKING SPACE	
	VERTICAL GRANITE CURB (VGC)	
	INTEGRATED CONCRETE CURB (ICC)	
	UTILITY POLE	
	OVERHEAD WIRES	
	UNDERGROUND ELECTRIC AND TELECOMMUNICATIONS	UE&T
	RETAINING WALL	(POINTS TOWARD RETAINING GROUND)
	DRY HYDRANT	
	SIGN	
	WELL	
	BUILDING	

HORIZONTAL GRAPHIC SCALE
0 20 40 80
1" = 40'

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	3/4/2015	GENERAL REVISIONS	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

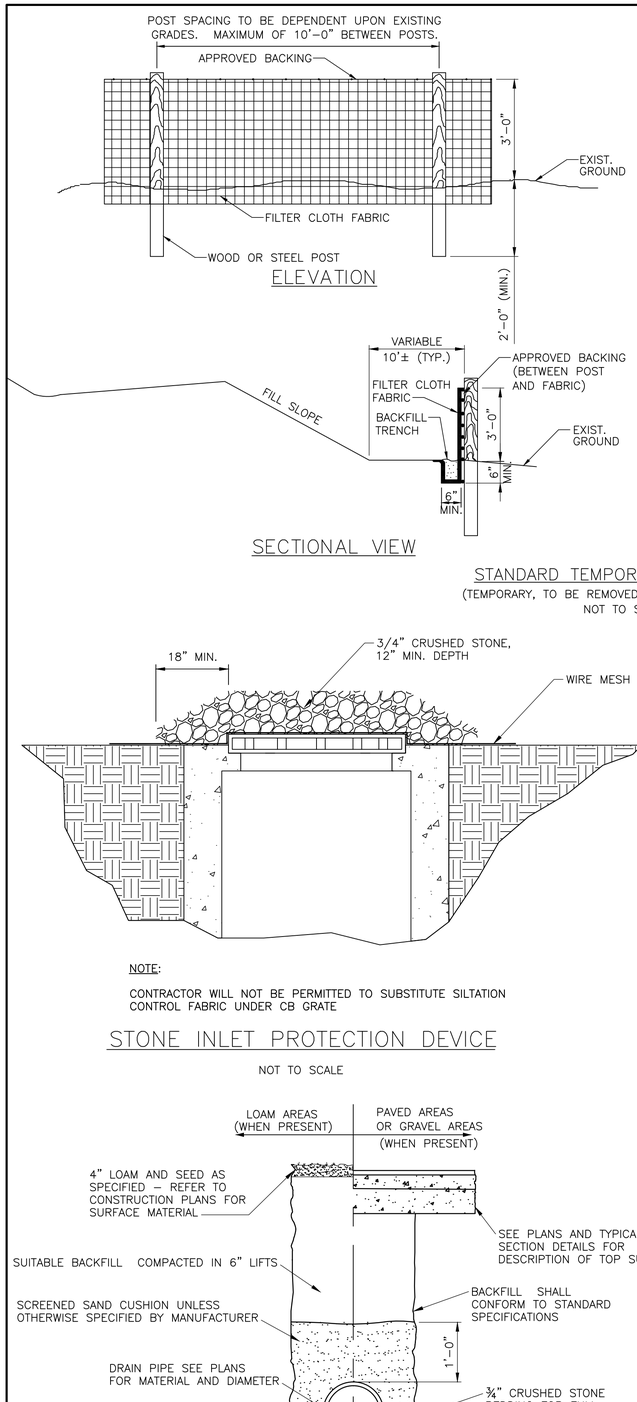
UTILITY PLAN

DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

C1.3

I:\32819P - Barrington, Town Offices\Drawings\32819-C1.1 SITE LAYOUT.dwg 3/4/2015 2:43 PM



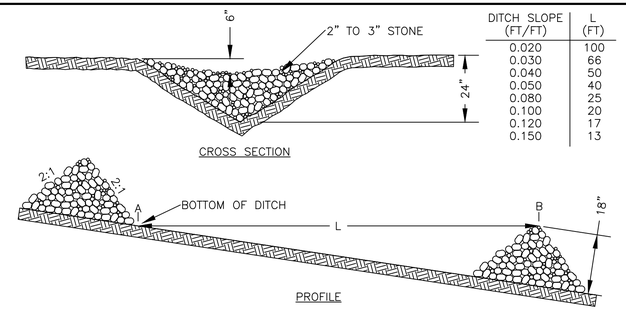
SILT FENCE NOTES:

1. PREASSEMBLED SILT FENCING AS MANUFACTURED FOR THIS PURPOSE IS ACCEPTABLE IN LIEU OF A FIELD CONSTRUCTED SILT FENCE UPON APPROVAL BY THE ENGINEER.
2. FILTER CLOTH SHALL HAVE APPROVED BACKING OR A BUILT–IN REINFORCED STRUCTURE, AS RECOMMENDED BY THE MANUFACTURER TO SUPPORT THE FILTER CLOTH.
3. SILT FENCE SHALL BE CONSTRUCTED AT LOCATIONS AS SHOWN ON PLANS OR WHERE DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCES DURING THE LIFE OF THE CONTRACT. SILT ACCUMULATIONS SHALL BE REMOVED AND THE FENCES SHALL REMAIN IN PLACE.
5. THE CONTRACTOR SHALL BE REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE CONSTRUCTION AREA.
6. AFTER AN ACCEPTABLE STAND OF TURF HAS BEEN ESTABLISHED, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE SILT FENCE TO AN ACCEPTABLE LOCATION OFF OF AIRPORT PROPERTY.

STANDARD TEMPORARY SILT FENCE

(TEMPORARY, TO BE REMOVED PRIOR TO FINAL PAVING)

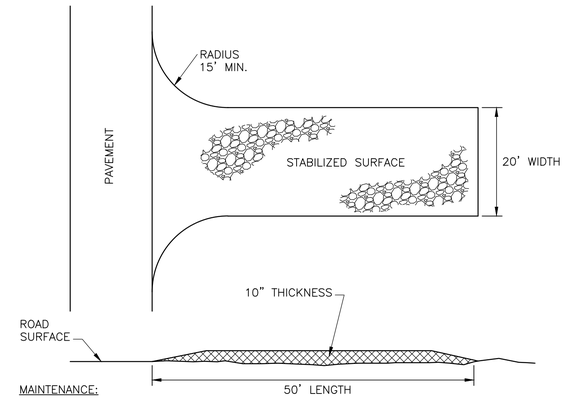
NOT TO SCALE



DITCH SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13

STONE CHECK DAM DETAIL

NOT TO SCALE



MAINTENANCE:

1. IN THE EVENT THAT MUD OR SOIL PARTICLES CLOG THE VOIDS OF THE CONSTRUCTION ENTRANCE, THE CONSTRUCTION ENTRANCE SHOULD BE TOPDRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE CONSTRUCTION ENTRANCE MAY BE REQUIRED.
2. IF WASH FACILITIES ARE USED, SEDIMENTATION TRAPS SHOULD BE CLEANED AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE PERFORMANCE OF OF SEDIMENTATION COLLECTION AND STORAGE IS AVAILABLE.

STABILIZED CONSTRUCTION ENTRANCE

(TEMPORARY, TO BE REMOVED PRIOR TO FINAL PAVING)

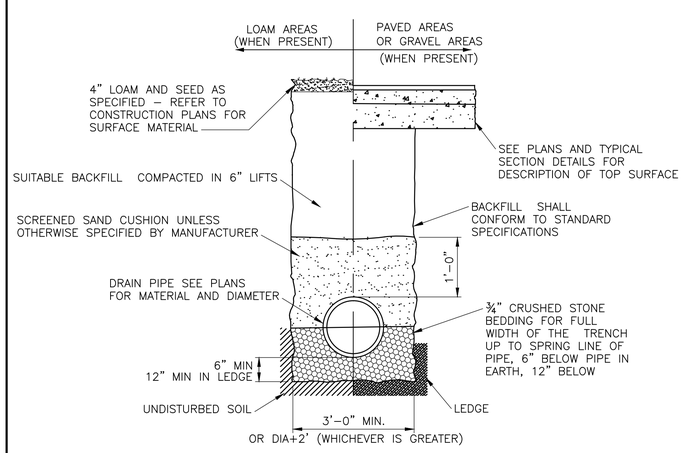
NOT TO SCALE

NOTE:

CONTRACTOR WILL NOT BE PERMITTED TO SUBSTITUTE SILTATION CONTROL FABRIC UNDER CB GRATE

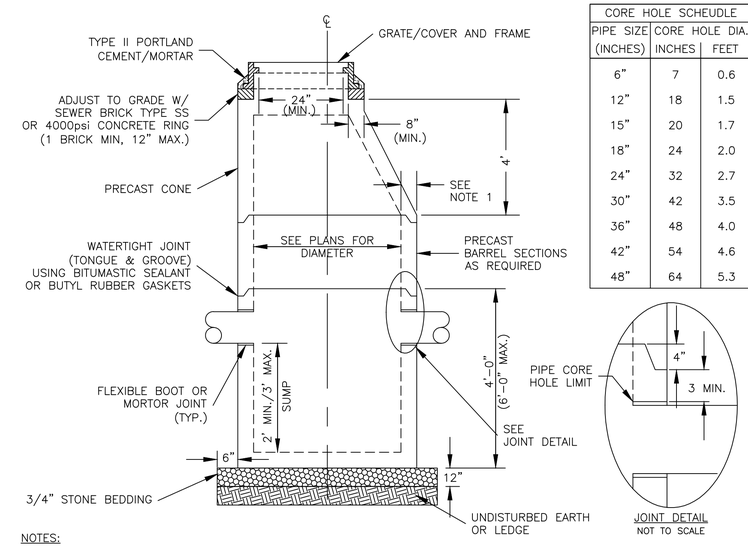
STONE INLET PROTECTION DEVICE

NOT TO SCALE



PIPE TRENCH DETAIL

NOT TO SCALE



CORE HOLE SCHEUDLE		
PIPE SIZE (INCHES)	CORE HOLE DIA. INCHES	CORE HOLE DIA. FEET
6"	7	0.6
12"	18	1.5
15"	20	1.7
18"	24	2.0
24"	32	2.7
30"	42	3.5
36"	48	4.0
42"	54	4.6
48"	64	5.3

NOTES:

1. PRECAST SECTIONS SHALL BE REINFORCED AND BE 5" THICK FOR A 4' DIAMETER STRUCTURE, 6" THICK FOR A 5' DIAMETER STRUCTURE, 7" THICK FOR A 6' DIAMETER STRUCTURE AND 9" THICK FOR A 8' DIAMETER STRUCTURE.
2. PRECAST BASE SECTIONS SHALL BE REINFORCED AND CONSIST OF A FLOOR THICKNESS OF 6" THICK FOR A 4' DIAMETER STRUCTURE, 8" THICK FOR A 5' DIAMETER STRUCTURE, 8" THICK FOR A 6' DIAMETER STRUCTURE AND 10" THICK FOR A 8' DIAMETER STRUCTURE.
3. PRECAST SECTIONS SHALL MEET HS–20 LOADING, CONSIST OF CONCRETE THAT IS A MINIMUM OF 4000psi @28 DAYS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C–478; LATEST REVISION.
4. PRECAST SECTIONS SHALL HAVE TONGUE AND GROOVE JOINT 4" HIGH AT AN 11–DEGREE ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
5. PRECAST CONE SECTIONS MAY BE EITHER CONCENTRIC, ECCENTRIC OR FLAT SLAB TOPS MAY BE USED WHERE PIPE WOULD OTHERWISE ENTER INTO THE CONE SECTION OF THE STRUCTURE AND WHERE PERMITTED.
6. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES AND NO MORE THAN 75% OF A HORIZONTAL CROSS–SECTION SHALL BE HOLES, INCLUDING NO HOLES SHALL BE LOCATED CLOSER THAN 3" TO JOINTS.
7. OUTSIDE PIPE EDGES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL STRUCTURE.
8. SEE PLANS FOR STRUCTURE SIZES.

CATCH BASIN/DRAIN MANHOLE DETAIL

NOT TO SCALE

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	3/4/2015	GENERAL REVISIONS	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

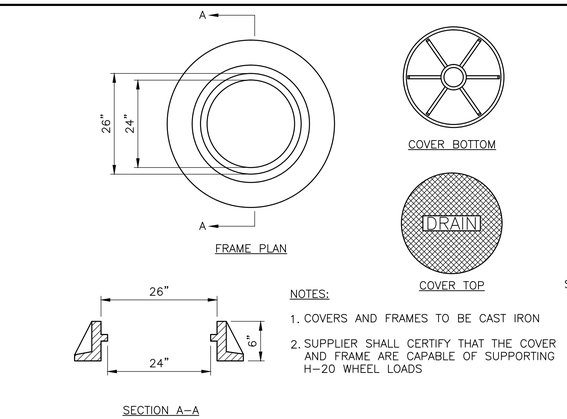
DETAILS I

DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

C1.4

I:\32281SP – Barrington, Town Offices\Drawings\32281S–DETAILS.dwg 3/4/2015 2:37 PM

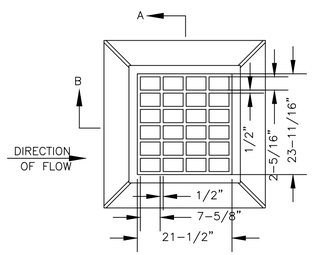


NOTES:

1. COVERS AND FRAMES TO BE CAST IRON
2. SUPPLIER SHALL CERTIFY THAT THE COVER AND FRAME ARE CAPABLE OF SUPPORTING H–20 WHEEL LOADS

DRAIN MANHOLE COVER AND FRAME DETAIL

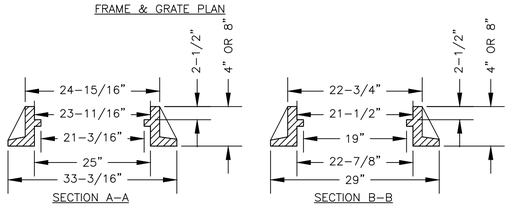
NOT TO SCALE



NOTES:

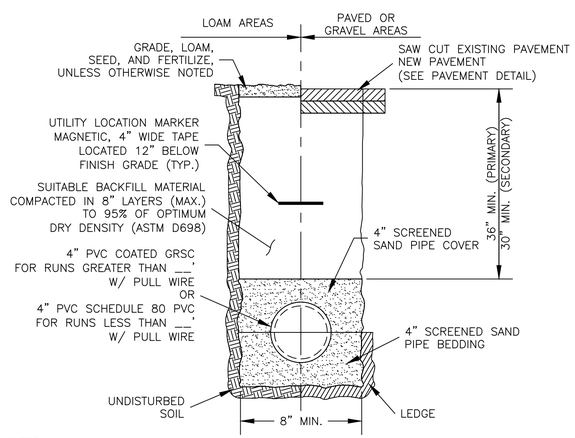
1. FRAMES AND GRATES SHALL BE NHDOT TYPE 'B'.
2. GRATES AND FRAMES TO BE CAST IRON.
3. SUPPLIER SHALL CERTIFY THAT THE GRATE/FRAME ARE CAPABLE OF SUPPORTING H–20 WHEEL LOAD.

FRAME & GRATE PLAN



GRATE AND FRAME DETAIL

NOT TO SCALE

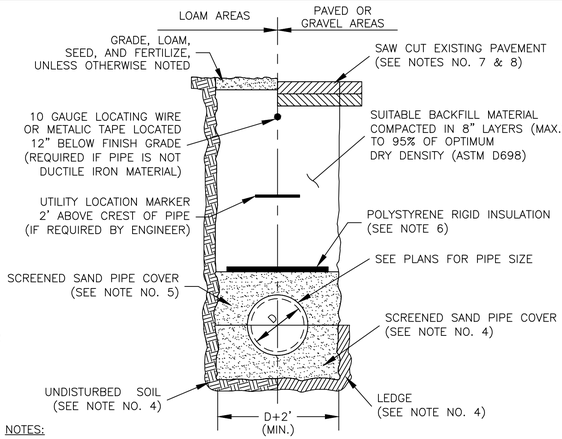


NOTES:

1. ALL EXCAVATION MUST MEET OSHA STANDARDS
2. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS

SINGLE 4" DUCT BANK DETAIL

NOT TO SCALE

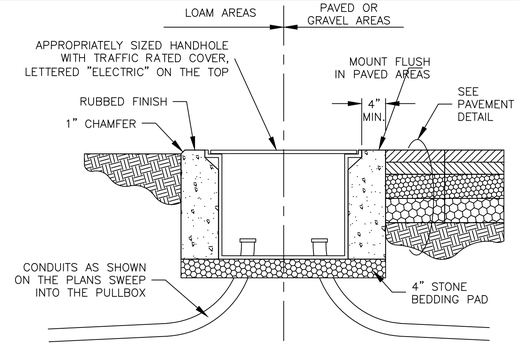


NOTES:

1. ALL MATERIALS SHALL MEET APPLICABLE AWWA SPECIFICATIONS
2. ALL EXCAVATION MUST MEET OSHA STANDARDS
3. PIPE DIAMETERS EQUAL TO OR LESS THAN 2–INCHES SHALL BE TYPE "K" COPPER TUBING. PIPE DIAMETERS GREATER THAN 2–INCHES SHALL BE EITHER DUCTILE IRON PIPE CLASS 52 OR PVC C–900 CLASS 150 (DR18)
4. BEDDING MATERIAL SHALL BE FULL WIDTH OF TRENCH. BEDDING MATERIAL SHALL BE 6" BELOW PIPE (IN EARTH) OR 12" BELOW PIPE (IN LEDGE) UP TO SPRING LINE OF PIPE.
5. SAND COVER/CUSHION MATERIAL SHALL BE FULL WIDTH OF TRENCH. SAND MATERIAL SHALL BE FROM SPRING LINE UP TO 12" (MINIMUM) ABOVE CREST OF PIPE.
6. ALL WATER MAINS AND SERVICES SHALL MAINTAIN A MINIMUM COVER OF 5'–6". IN THE EVENT THAT MINIMUM COVER IS NOT FEASIBLE. PIPES 2–INCHES OR LESS IN DIAMETER SHALL BE INSULATED WITH A MINIMUM OF 2" RIGID WRAP–AROUND INSULATION WITH PVC JACKET. PIPES GREATER THAN 2–INCHES IN DIAMETER SHALL BE INSULATED WITH RIGID HIGH DENSITY EXTRUDED POLSTYRENE (MINIMUM 60psi COMPRESSIVE STRENGTH), LOCATED 6" ABOVE CREST OF PIPE AND SHALL BE A MINIMUM WIDTH OF D+12". 1–INCH OF INSULATION PER FOOT OF COVER NOT ACHIEVED – MAXIMUM THICKNESS 2–INCH SHALL BE INSTALLED.
7. PAVEMENT REPAIR SHALL CONFORM TO STREET OPENING REGULATIONS (WITHIN RIGHT–OF–WAY LIMITS), PAVEMENT SECTION DETAIL (OUTSIDE OF RIGHT–OF–WAY LIMITS) AND FOLLOW NOTE NO. 8.
8. DURING PAVEMENT REPAIR, THE CONTRACTOR SHALL CUT–BACK SUBBASE MATERIAL AN ADDITIONAL 12–INCHES ON EITHER SIDE OF THE TRENCH AND PAVEMENT COLD PLANE MILL AREA TO A DEPTH OF 1–3/4" AN ADDITIONAL 24–INCHES ON EITHER SIDE OF SUBBASE MATERIAL CUT–BACK.

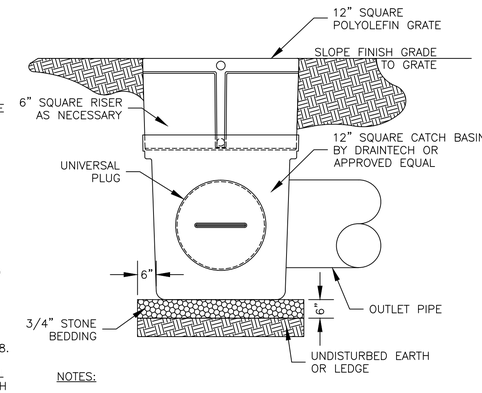
WATER MAIN/SERVICE PIPE TRENCH DETAIL

NOT TO SCALE



PULLBOX DETAIL

NOT TO SCALE

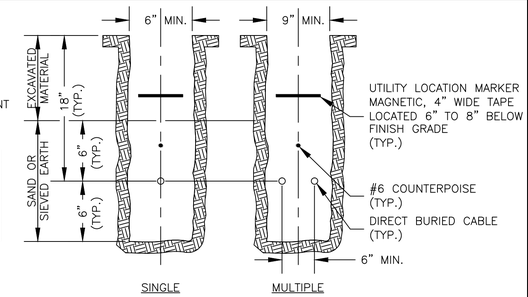


NOTES:

1. HDPE CATCH BASIN SHALL BE INSTALLED PER MANUFACTURE RECOMMENDATION.
2. CATCH BASIN SHALL BE USED IN LANDSCAPE APPLICATIONS ONLY.

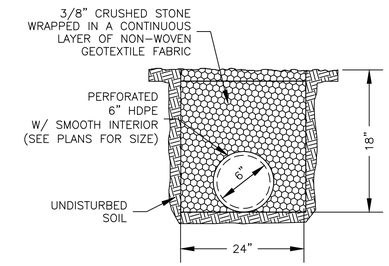
HDPE CATCH BASIN DETAIL

NOT TO SCALE



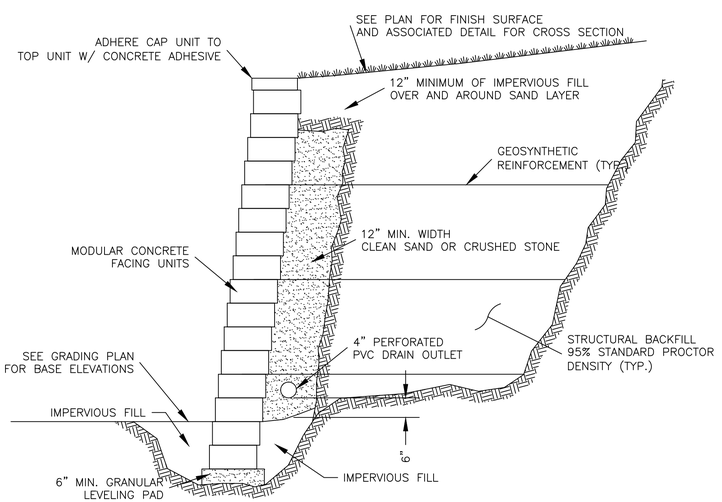
DIRECT BURIED CABLE TRENCH DETAILS

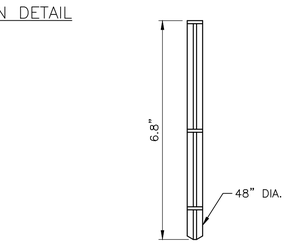
NOT TO SCALE



STONE DRIP EDGE DETAIL

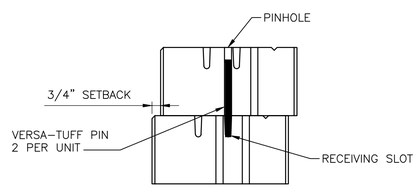
NOT TO SCALE





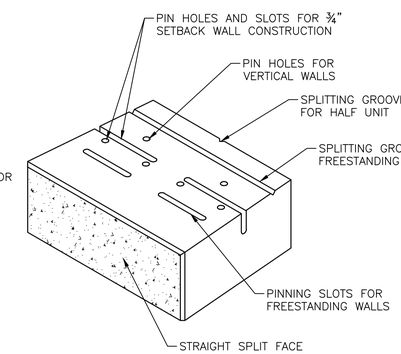
PIN DETAIL

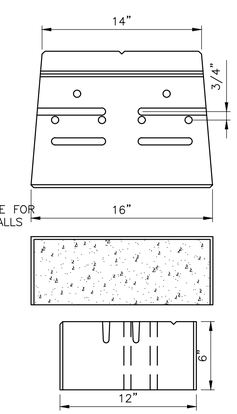
NOT TO SCALE



PINNING DETAIL

NOT TO SCALE





MODULAR BLOCK RETAINING WALL DETAIL

NOT TO SCALE

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	3/4/2015	ADD SHEETS C1.5–1.8	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

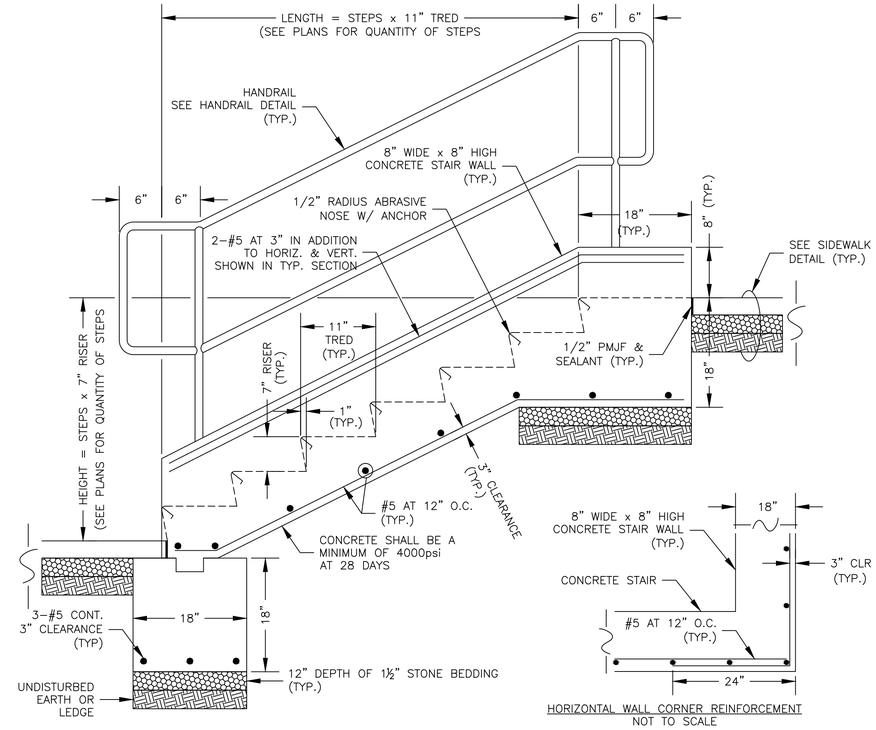
DETAILS II

DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

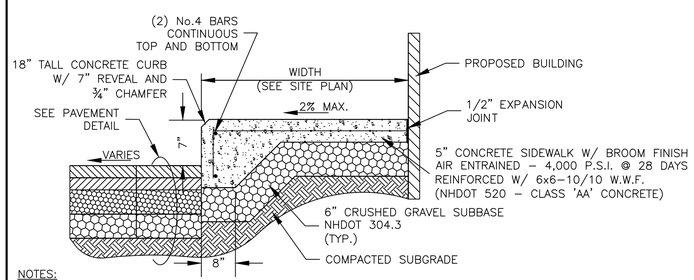
C1.5

I:\32819P – Barrington, Town Offices\Drawings\32819–DETAILS.dwg 3/4/2015 2:37 PM



EXTERIOR CONCRETE STAIR SLAB-ON-GRADE DETAIL

NOT TO SCALE

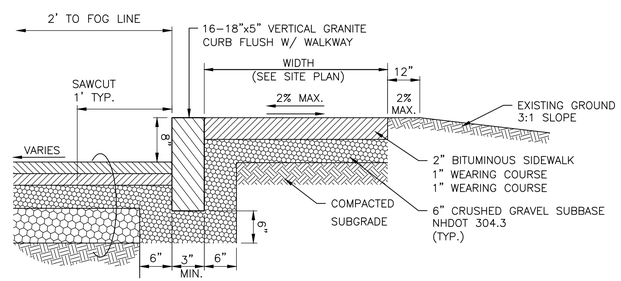


NOTES:

1. SEE SITE PLAN FOR LIMITS OF CURBING
2. MAXIMUM ALLOWABLE SIDEWALK SLOPE IN ALL DIRECTIONS SHALL BE IN ACCORDANCE WITH AMERICAN DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN; CROSS-SLOPE SHALL BE NO LESS THAN 1% AND NO GREATER THAN 2%
3. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NHDOT STANDARD SPECIFICATIONS
4. REMOVE ALL UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER
5. IN THE EVENT BEDROCK IS ENCOUNTERED, EXCAVATE BEDROCK TO A MINIMUM OF 6" BELOW THE SUB-BASE MATERIAL AND REPLACE WITH BANKRUN GRAVEL
6. SUBGRADE MATERIAL SHALL BE SHAPED AND COMPACTED TO AN EVEN SURFACE. ALL SOFT AND YIELDING MATERIAL SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL
7. 1/4" RADIUS x 1/2" WIDE x 1/2" DEPTH TOOLED CONTROL JOINTS SHALL BE LOCATED 5' O.C.
8. 1/2" EXPANSION JOINTS SHALL CONFORM TO AASHTO M153, TYPE III OR AASHTO M213 AND BE LOCATED 20' O.C.
9. PROTECTIVE COATING SHALL BE SILANE/SILOXANE AND APPLIED IN ACCORDANCE WITH NHDOT 534.2.2 AND 534.3; RESPECTIVELY

VERTICAL CONCRETE CURB/SIDEWALK/BUILDING DETAIL

NOT TO SCALE



NOTES:

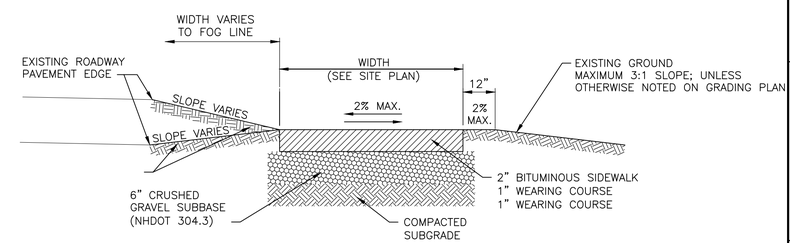
1. SEE SITE PLAN FOR LIMITS OF CURBING
2. MAXIMUM ALLOWABLE SIDEWALK SLOPE IN ALL DIRECTIONS SHALL BE IN ACCORDANCE WITH AMERICAN DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN; CROSS-SLOPE SHALL BE NO LESS THAN 1% AND NO GREATER THAN 2%.
3. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NHDOT STANDARD SPECIFICATIONS
4. ADJOINING STONES SHALL HAVE THE SAME (OR APPROX.) LENGTH
5. MINIMUM LENGTH OF CURB STONES = 3'
6. MAXIMUM LENGTH OF CURB STONES = 10'
7. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES - SEE CHART

21'	3'
22'-28'	4'
29'-35'	5'
36'-42'	6'
43'-49'	7'
50'-56'	8'
57'-60'	9'
OVER 60'	10'

8. ALL CURB SHALL BEGIN FLUSH WITH GROUND (0" REVEAL) AND END FLUSH WITH GROUND (0" REVEAL) TO PREVENT AN OBSTACLE FOR PLOWING.
9. REMOVE ALL UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER
10. IN THE EVENT BEDROCK IS ENCOUNTERED, EXCAVATE BEDROCK TO A MINIMUM OF 6" BELOW THE SUB-BASE MATERIAL AND REPLACE WITH BANKRUN GRAVEL
11. SUBGRADE MATERIAL SHALL BE SHAPED AND COMPACTED TO AN EVEN SURFACE. ALL SOFT AND YIELDING MATERIAL SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL

TYPICAL RAISED BITUMINOUS SIDEWALK W/ VERTICAL GRANITE CURB DETAIL

NOT TO SCALE



NOTES:

1. MAXIMUM ALLOWABLE SIDEWALK SLOPE IN ALL DIRECTIONS SHALL BE IN ACCORDANCE WITH AMERICAN DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN; CROSS-SLOPE SHALL BE NO LESS THAN 1% AND NO GREATER THAN 2%.
2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NHDOT STANDARD SPECIFICATIONS.
3. REMOVE ALL UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER.
4. IN THE EVENT BEDROCK IS ENCOUNTERED, EXCAVATE BEDROCK TO A MINIMUM OF 6" BELOW THE SUB-BASE.
5. SUBGRADE MATERIAL SHALL BE SHAPED AND COMPACTED TO AN EVEN SURFACE. ALL SOFT AND YIELDING MATERIAL SHALL BE REMOVED AND REPLACED WITH BANKRUN GRAVEL MATERIAL.
6. IN NON-CURB AREAS PAVEMENT SUB-BASE MATERIAL SHALL EXTEND 3' BEYOND EDGE-OF-PAVEMENT.

TYPICAL AT GRADE BITUMINOUS SIDEWALK DETAIL

NOT TO SCALE

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	3/4/2015	ADD SHEETS C1.5-1.8	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

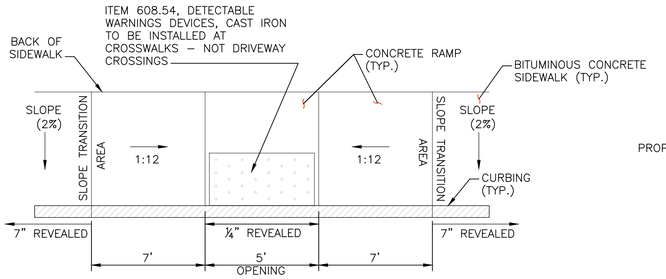
DETAILS III

DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

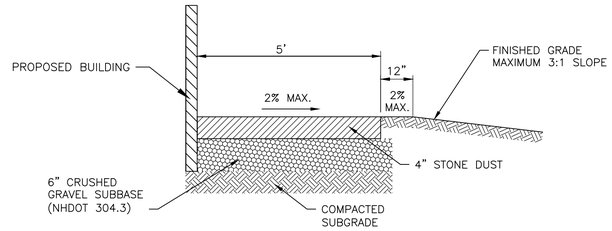
C1.6

I:\322819P - Barrington, Town Offices\Drawings\322819-DETAILS.dwg 3/4/2015 2:37 PM



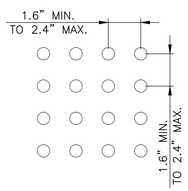
SIDEWALK RAMP (BOX-STYLE) DETAIL

NOT TO SCALE



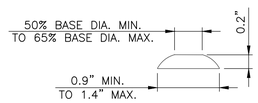
STONEDUST WALKWAY DETAIL

NOT TO SCALE



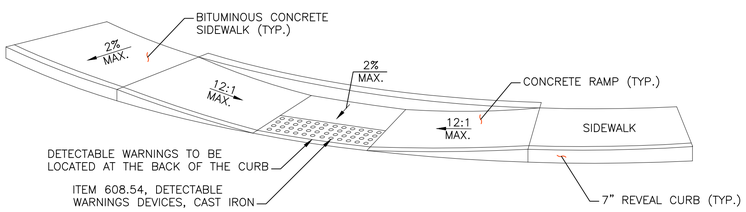
DOME SPACING

NOT TO SCALE



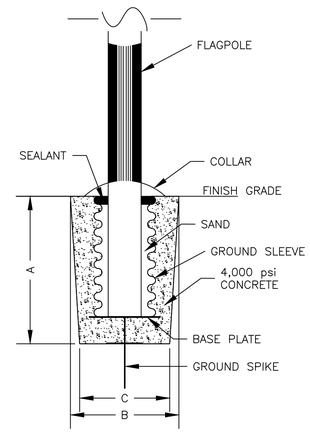
DOME SECTION

NOT TO SCALE



PARALLEL CURB RAMP DETAIL

NOT TO SCALE



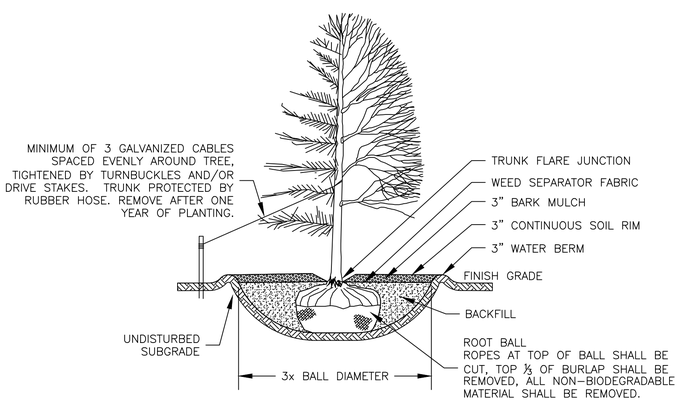
20'–30'	3'–6"	30"	24"
35'	4'–0"	36"	30"
40'	4'–6"	42"	36"
45'	5'–0"	48"	42"
50'	5'–6"	48"	42"
60'	6'–10"	48"	42"

NOTES:

1. ALL EXCAVATION MUST MEET OSHA STANDARDS.
2. INSTALLATION SHALL BE GROUND MOUNTED; NOT BASE-PLATE MOUNTED.
3. INSTALLATION OF FLAGPOLE AND ASSOCIATED FOUNDATION SHALL BE PER MANUFACTURER'S RECOMMENDATION. ABOVE FOUNDATION DIMENSIONS ARE MINIMUM.

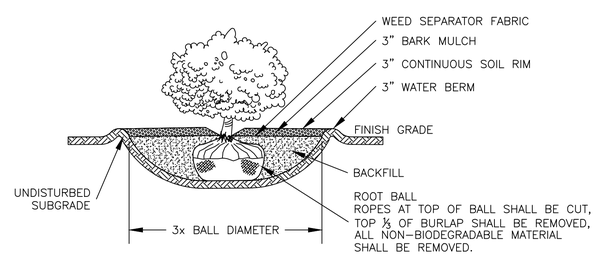
FLAGPOLE FOUNDATION DETAIL

NOT TO SCALE



EVERGREEN/DECIDUOUS TREE DETAIL

NOT TO SCALE



SHRUB PLANTING DETAIL

NOT TO SCALE

NOTES:

1. PRIOR TO PLANTING, CHECK PLANTS DAILY AND WATER TO KEEP SOIL DAMP BUT NOT SOAKING WET.
2. ANTI-DESICANT SPRAY MAY BE APPLIED TO ALL EVERGREENS PER MANUFACTURERS SPECIFICATIONS.
3. PLANT TREES AND SHRUBS SO THAT THE ROOT BALL FIRMLY ON TOP OF UNDISTURBED SOIL WITH THE JUNCTION TRUNK FLARE SLIGHTLY HIGHER (1"–2") THAN THE FINISHED GRADE.
4. BACKFILL WITH SUITABLE SOIL FROM HOLE. AMEND WITH TOPSOIL AND COMPOST AS DIRECTED BY THE ENGINEER. LIGHTLY TAMP BACKFILL IN LAYERS TO REMOVE AIR POCKETS AND WATER THOROUGHLY WITHIN 48 HOURS OF PLANTING.
5. USE AGED, UNCOLORED DOUBLE SHREDDED BARK MULCH. TAPER MULCH TO BASE OF TRUNK.

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	3/4/2015	ADD SHEETS C1.5–1.8	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

DETAILS IV

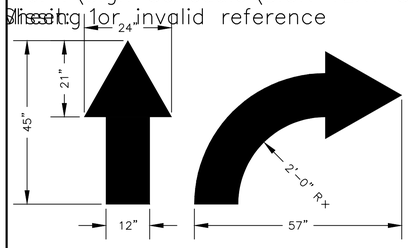
DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

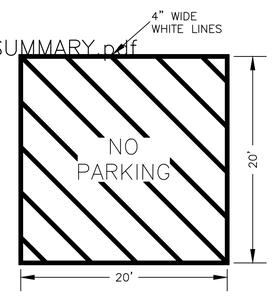
C1.7

I:\322819P – Barrington, Town Offices\Drawings\322819–DETAILS.dwg 3/4/2015 2:37 PM

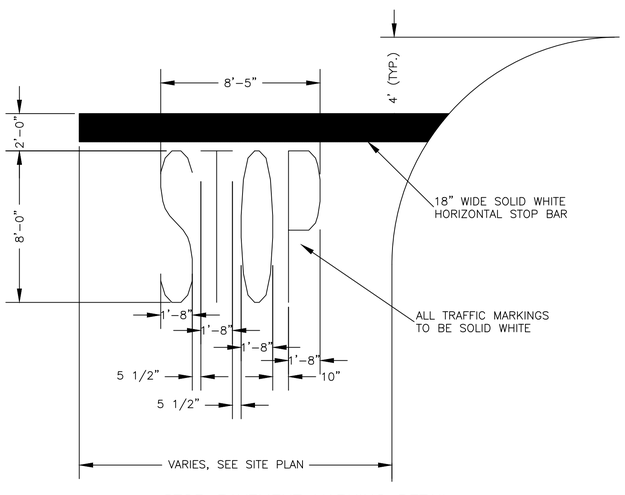
File: .\Sign Schedule\SIGN TEXT SUMMARY.pdf
Sheet: 1 or invalid reference



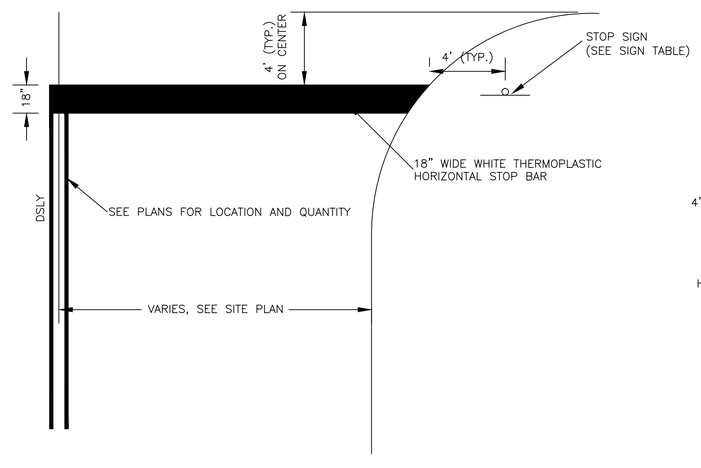
TRAFFIC FLOW ARROW DETAIL
NOT TO SCALE



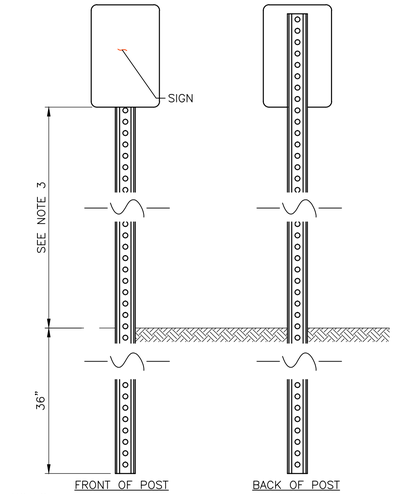
PAVEMENT MARKING DETAIL
NOT TO SCALE



STOP PAVEMENT MARKING DETAIL
NOT TO SCALE



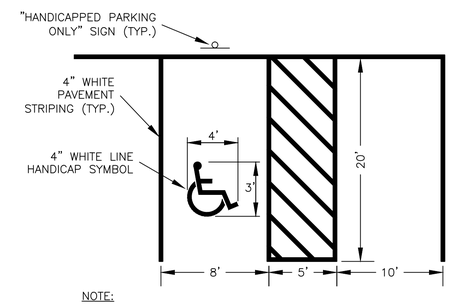
STOP BAR WITH CROSSWALK MARKING DETAIL
NOT TO SCALE



NOTES:

1. STEEL "U" POSTS AND HARDWARE SHALL BE IN ACCORDANCE WITH NHDOT SECTION 615.
2. ALL POSTS SHALL BE INSTALLED PLUMB AND DRIVEN TO DEPTH IDENTIFIED ABOVE. POST SPLICING IS NOT ALLOWED.
3. SIGNS SHALL BE INSTALLED TO A HEIGHT OF 6' MEASURED FROM THE FINISH GRADE OF PAVEMENT TO BOTTOM OF SIGN; IF INSTALLED WITHIN SHOULDER. INSTALLTION HEIGHT SHALL INCREASE TO 7' MEASURED FROM FINISH GRADE OF SIDEWALK/RAISED MEDIAN TO BOTTOM OF SIGN; IF INSTALLED WITHIN SIDEWALK OF RAISED MEDIAN.

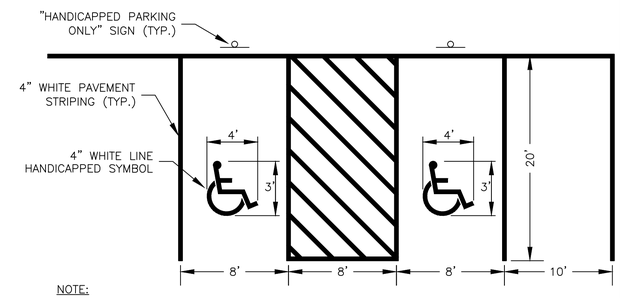
STEEL "U" POST DETAIL
NOT TO SCALE



NOTE:

1. ALL PAVEMENT MARKINGS/STRIPING SHALL CONFORM TO LOCAL AND STATE REGULATIONS.

HANDICAP & STANDARD PARKING
PAVEMENT MARKING DETAIL
NOT TO SCALE



NOTE:

1. ALL PAVEMENT MARKINGS/STRIPING SHALL CONFORM TO LOCAL AND STATE REGULATIONS.

MULTI-HANDICAP & STANDARD PARKING
PAVEMENT MARKING DETAIL
NOT TO SCALE

DuBois & King inc.
ENGINEERING • PLANNING •
MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D
1	3/4/2015	ADD SHEETS C1.5–1.8	MEF	MTO

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

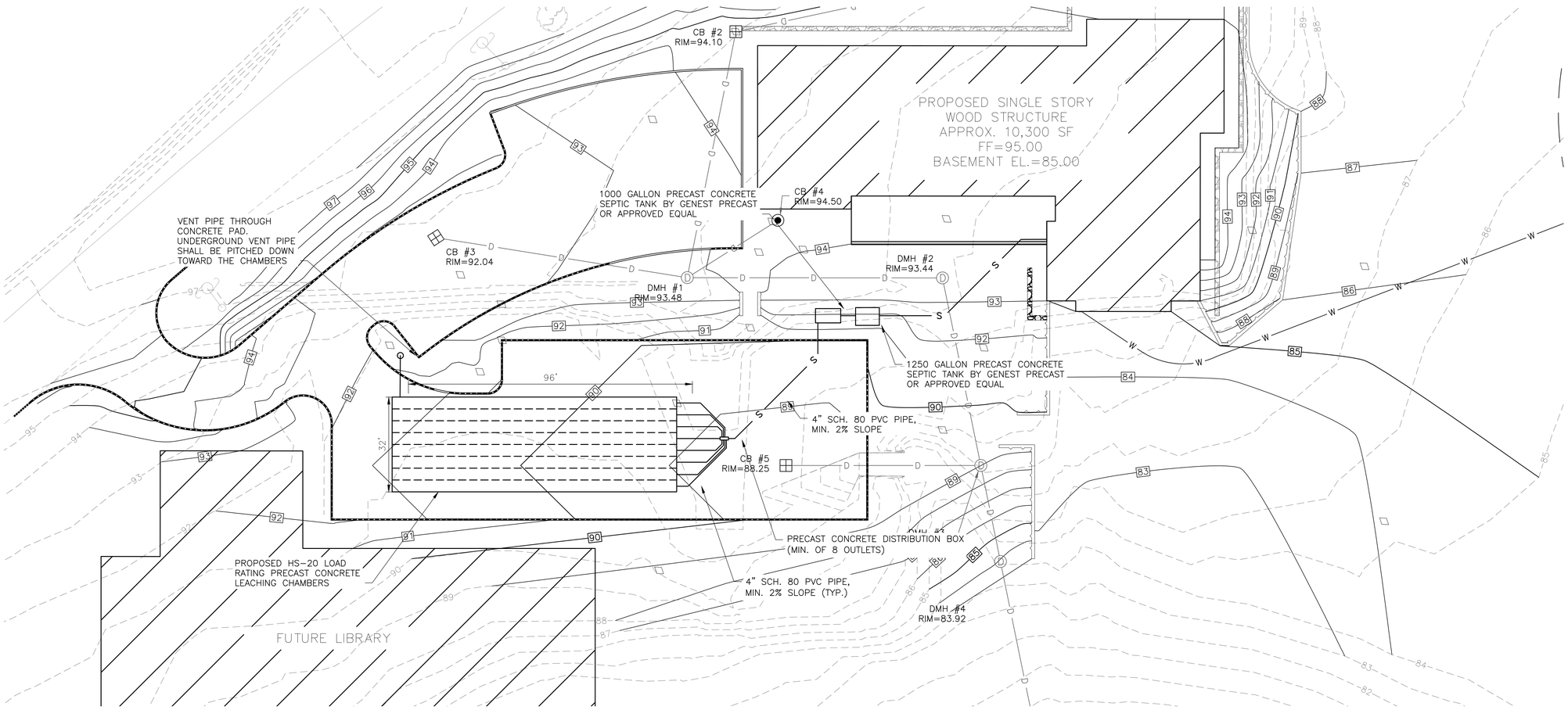
DETAILS V

DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

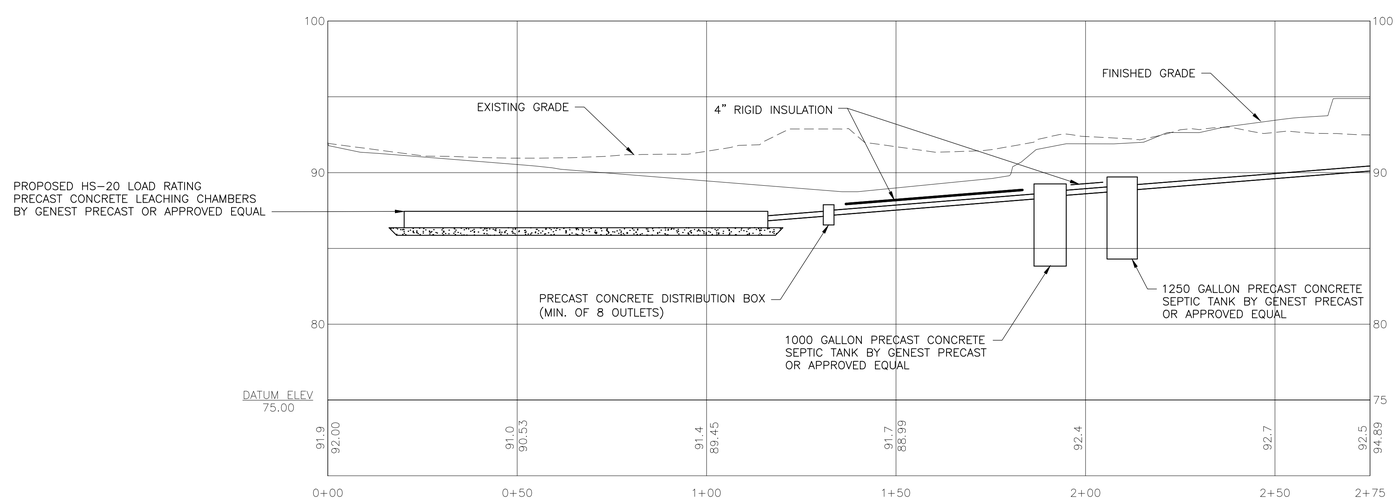
SHEET NUMBER

C1.8

I:\322819P – Barrington, Town Offices\Drawings\322819-DETAILS.dwg 3/4/2015 2:37 PM



NOTE:
THE PROPOSED WASTEWATER SYSTEM HAS BEEN SIZED BASED ON ASSUMED PERCOLATION RATE AND SOILS INFO FROM NRCS WEB SOIL SURVEY. PRIOR TO PERMITTING AND CONSTRUCTION, TEST PITS AND PERC TEST WILL BE REQUIRED.



HORIZONTAL GRAPHIC SCALE
0 10 20 40
1" = 20'

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

WASTEWATER PLAN AND PROFILE

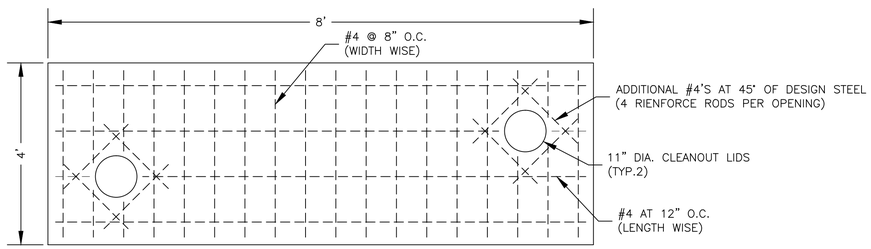
DRAWN BY	DATE
MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

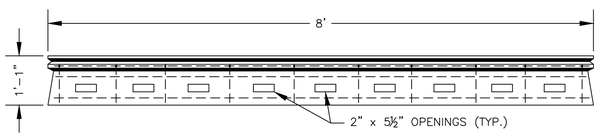
C2.1

SHEET 12 OF 13

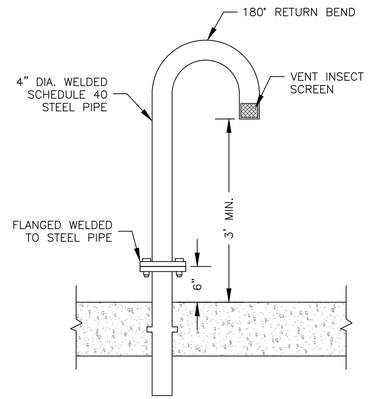
\\archimedes\Projects\322819P - Barrington, Town Offices\Drawings\322819-C1.2 Wastewater System.dwg 3/4/2015 2:39 PM



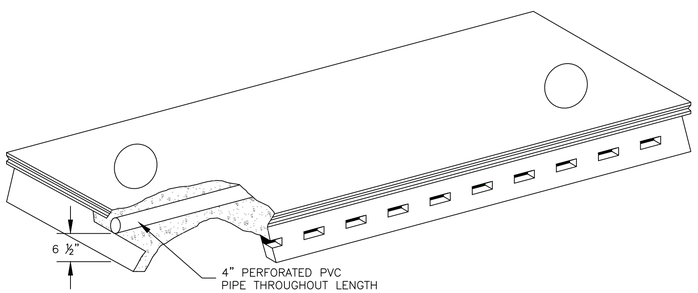
PLAN VIEW
NOT TO SCALE



ELEVATION VIEW
NOT TO SCALE



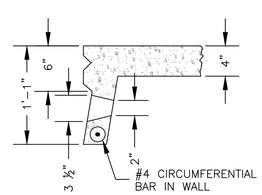
LEACHFIELD VENT THROUGH
CONCRETE PAD DETAIL
NOT TO SCALE



ISOMETRIC VIEW
NOT TO SCALE

NOTES:

1. CHAMBER SECTION SHALL MEET HS-20 LOADING AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C 478, LATEST REVISIONS.
2. DESIGN FILL SHALL BE 2'.
3. CONCRETE SHALL 4,000 PSI AT 28 DAYS, WHILE CEMENT SHALL BE TYPE III PER ASTM C-150.
4. REINFORCING fy SHALL BE 60,000 PSI, PER ASTM A-615,
5. ADDITIONAL REINFORCING AROUND CLEANOUT OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE, WITH #4 DIAGONAL TRIM BARS.



WALL DETAIL
NOT TO SCALE

SANITARY 4'x8' HS-20
LEACHING CHAMBER DETAIL
NOT TO SCALE

DESIGN AND CONSTRUCTION NOTES:

1. THIS SYSTEM IS DESIGNED FOR A DESIGN FLOW OF 1075 GALLONS PER DAY.
2. THE WASTEWATER SYSTEM CONSISTS OF A SEPTIC TANK, DISTRIBUTION BOX AND PRECAST CONCRETE CHAMBER DISPOSAL FIELD.
3. THE SEPTIC TANK SHALL BE A 2,160 GALLON PRECAST CONCRETE TANK BY L.E. WEEDS OF NEWPORT NH OR APPROVED EQUAL. THE TANK SHALL BE WATERTIGHT AND STRUCTURALLY SOUND. AN EFFLUENT FILTER ON THE OUTLET OF THE TANK, WHICH WILL PREVENT THE PASSAGE OF SOLIDS LARGER THAN 1/8-INCH IN SIZE TO THE LEACHFIELD SHALL BE INSTALLED IN THE SEPTIC TANK.
4. ANY FILL MATERIAL IN PROXIMITY OF THE PROPOSED DISPOSAL FIELD SHALL BE MEDIUM TO COURSE TEXTURED SAND, WITH AN EFFECTIVE SIZE OF 0.25 TO 2.00mm, NO GRATER THAN 5% PASSING THE NUMBER 200 SIEVE, AND NO PARTICLES LARGER THAN 3/4 INCH.

OPERATION AND MAINTENANCE NOTES:

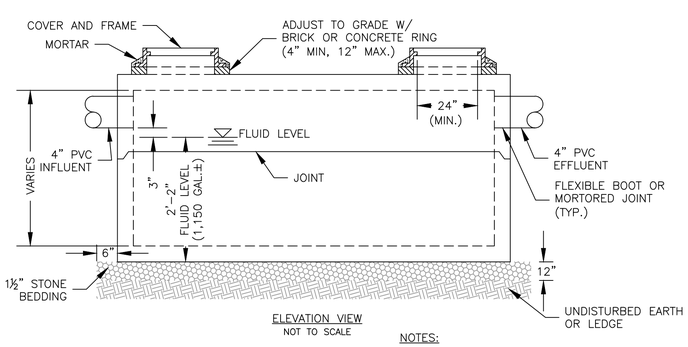
1. SEPTIC TANK EFFLUENT FILTER IS TO BE INSPECTED AND CLEANED EVERY SIX MONTHS. SEPTIC TANK SHOULD BE PUMPED OUT AND CLEANED EVERY THREE YEARS.
2. OWNER IS WARNED THAT GARBAGE DISPOSALS, LAUNDRY BLEACH, ANTI-BACTERIAL SOAP, HAZARDOUS MATERIALS, AND HOUSEFOLD CLEANERS WILL REDUCE THE LIFE OF SEPTIC SYSTEM.
3. IT IS THE OWNERS'S RESPONSIBILITY TO BECOME FAMILIAR WITH THESE PLANS IN REGARDS TO THE OVERALL PROJECT AND FUTURE USE OF THE PROPERTY. CARE SHALL BE TAKEN TO MAINTAIN THE SYSTEM REPLACEMENT AREA UNDISTURBED AND OBSERVE SETBACK REQUIREMENTS FOR ANY FUTURE CONSTURCTION.

BASIS OF DESIGN (HS-20 LOAD RATED CHAMBER SYSTEM):
DESIGN PARAMETERS OBTAINED FROM THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES' CODE OF ADMINISTRATIVE RULES FOR INDIVIDUAL SEWAGE DISPOSAL SYSTEMS (Env-Ws 1000).

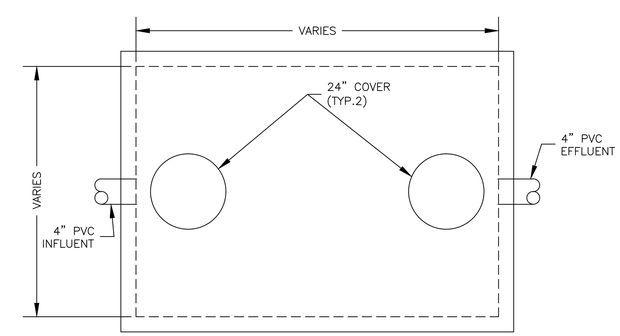
1. DESIGN FLOW:
   BASED ON TABLE 1008-1 (UNIT DESIGN FLOW FIGURES).

15 GPD/EMPLOYEE	X 20 EMPLOYEES	= 300 GALLONS/DAY
5 GPD/TRANSIENT VISITORS	X 60 VISITORS	= 300 GALLONS/DAY
5 GPD/PER SEAT OF CAPACITY	X 85 SEAT CAPACITY	= 425 GALLONS/DAY
		1025 GALLONS/DAY OF SANITARY FLOW

2. SEPTIC TANK SIZING:
   1025 GPD X 2 = 2050 GAL SEPTIC STORAGE (MIN)
   USE: 1,250 GALLON AND A 1,000 GALLON PRECAST CONCRETE SEPTIC TANKS
3. SEPTIC TANK EFFLUENT FILTER:
   USE A SEPTIC TANK EFFLUENT FILTER SYSTEM FOR REDUCTION OF SUSPENDED SOLIDS, BODs AND OIL & GREASE IN THE EFFLUENT WASTE STREAM FROM THE TANK TO THE ABSORPTION TRENCH DISPOSAL FIELD.
4. PERCOLATION RATE:
   ASSUME PERCOLATION RATE OF 30 MIN/INCH
5. LOADING RATE FOR ABSORPTION CHAMBERS:
   BASED ON TABLE 1014-1 FOR COMMERCIAL LOADING FOR 100 GALLONS PER DAY WITH A PERCOLATION RATE OF 30 MINUTES PER INCH IS 290 SQUARE-FEET, SO TOTAL AREA IS 2937 SQUARE-FEET.
6. SYSTEM TYPE:
   USE CHAMBER SYSTEM LEACH FIELD.
7. SYSTEM DESIGN:
   CHAMBER AREA - USE 8 ROWS OF 12 CHAMBERS 4'x8'.



ELEVATION VIEW
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

NOTES:

1. PRECAST SECTIONS SHALL BE 6" THICK WITH 0.12 SQ.IN/FT. AREA OF STEEL REINFORCEMENT OR 8" THICK UNREINFORCED.
2. USE PRECAST CONCRETE 1000 AND 1250 GALLON SEPTIC TANK AS PER GENEST PRECAST OR APPROVED EQUAL

SEPTIC TANK DETAIL
NOT TO SCALE

DuBois & King inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
18 CONSTITUTION DR. SUITE 8
BEDFORD, NH 03110
TEL: (603) 637-1043
FAX: (866) 783-7101
www.dubois-king.com
LACONIA, NH
RANDOLPH, VT
SOUTH BURLINGTON, VT
SPRINGFIELD, VT

© Copyright 2015 Dubois & King Inc.

PROFESSIONAL SEAL

NOT FOR CONSTRUCTION PRELIMINARY PLANS

NO.	DATE	DESCRIPTION	BY	CK'D

TOWN OF BARRINGTON
333 CALEF HIGHWAY
BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN OFFICES
RAMSDELL LANE,
BARRINGTON, NEW HAMPSHIRE

SHEET TITLE

WASTEWATER DETAILS

DRAWN BY	DATE
ZDC	FEB. 2015
CHECKED BY	D&K PROJECT #
JAA	XXXXXX
PROJ. ENG.	D&K ARCHIVE #
MTO	

SHEET NUMBER

C2.2

\\archimedes\Projects\322819P - Barrington, Town Offices\Drawings\322819-C12 Wastewater System.dwg 3/4/2015 2:25 PM