GENERAL NOTES & SPECIFICATIONS

1. ALL CONSTRUCTION REQUIRED OF THE CONTRACTORS BY THE CONTRACT DOCUMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE GOVERNING BUILDING CODE AND OSHA REGULATIONS, SUPPLEMENTED BY THE CONTRACT DOCUMENTS. THE GOVERNING BUILDING CODE USED IN THE STRUCTURAL DESIGN IS THE INTERNATIONAL BUILDING CODE 2009 (IBC) WITH MASSACHUSETTS AMENDMENTS. ALL WORK SHALL ALSO BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF ACTON BUILDING DEPARTMENT.

2. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD, AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK. DO NOT SCALE DIMENSIONS OR ELEVATIONS FROM DRAWINGS.

3. UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES, ANY PERMITTING AGENCIES, AND "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS IN ADVANCE OF ANY WORK THAT WILL REQUIRE EXCAVATION. IN ADDITION, THE CONTRACTOR SHALL OBTAIN FROM THE OWNER, AS-BUILT DOCUMENTATION OF PRIVATE UNDERGROUND UTILITIES IN THE AREA SUCH AS POOL PIPING AND LANDSCAPE DRAINAGE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES IN THE AREA.

5. DEPTHS OF UNSUITABLE MATERIAL REMOVAL INDICATED ON THE PLAN ARE MINIMUM DEPTHS, AND ARE NOT TO BE CONSTRUED AS LIMITING IN ANY WAY THE AMOUNT OF EXCAVATION REQUIRED TO REACH GOOD BEARING. WHERE EXCAVATIONS MAY POTENTIALLY UNDERMINE EXISTING BUILDING OR SITE STRUCTURES, CONTACT THE ENGINEER BEFORE PROCEEDING.

6. ALL EXISTING SUB-BASE SOIL MATERIALS EXPOSED BY THE EXCAVATIONS REQUIRED ON THIS PLAN SHALL BE COMPACTED IN PLACE (PROOF ROLLED) PRIOR TO BACKFILLING WITH COMPACTED STRUCTURAL FILL IN THE EXCAVATION LIMITS.

7. STRUCTURAL FILL SHALL CONSISTS OF GRAVEL OR GRANULAR, FREE-DRAINNING MATERIAL CONTAINING NOT MORE THAN 10% OF MATERIAL THAT PASSES THROUGH A No. 4 SIEVE. FILL PLACED WITHIN THE PROPOSED WORK LIMITS SHALL BE PLACED IN MAXIMUM 12" LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D1557, METHOD C.

8. CHAINLINK FENCE SHALL HAVE BLACK COATED RAILS AND POSTS WITH BLACK VINYL MESH MEETING POOL FENCE REQUIREMENTS OF THE GOVERNING BUILDING CODE. PROVIDE THE NECESSARY BRACING HARDWARE FOR TERMINATION PANEL AT ALL CORNERS AND END PANELS. PROVIDE GATES TO MATCH SIZE AND ORIENTATION OF EXISTING GATES.

9. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO ENSURE THAT EXCAVATION AND SOIL COMPACTION ACTIVITIES IN THE VICINITY OF THE POOL DO NOT DISTURB THE EXISTING POOL STRUCTURE AND UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE POOL STRUCTURE AND COPING AT ALL TIMES DURING THE WORK. IT IS RECOMMENDED THAT ALL UNDERGROUND POOL PIPING BE INSPECTED BY A QUALIFIED PROFESSIONAL AFTER ALL EXCAVATION AND BACKFILLING ACTIVITIES ARE COMPLETE, BUT PRIOR TO PLACEMENT OF THE PATIO SLAB.

10. TENNIS COURT PAVEMENT RESTORATION:
    A. REPAIR DEPRESSIONS AROUND EXISTING SEWER MANHOLE AS SHOWN IN DETAIL 4/S-1.
    B. GENERALLY REPAIR DEPRESSIONS ON A PER UNIT BASIS AT THE REQUEST OF THE OWNER AS SHOWN IN DETAIL 5/S-1.

CONCRETE NOTES & SPECIFICATIONS

1. ALL CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED CONFORMING TO CURRENT AMERICAN CONCRETE INSTITUTE (ACI) 301, 304 AND 308 STANDARDS. THE FOLLOWING CONCRETE MIX DESIGNS ARE TO BE USED IN THE WORK:

   A. EXTERIOR SLAB-ON GRADE

28-DAY STRENGTH (MIN)	4,000 PSI
COARSE ACCREGATE (MAX)	¾"
WATER CEMENT RATIO (w/c)	0.44
AIR ENTRAINMENT	6% (±1%)

   B. GENERAL STRUCTURAL CONCRETE

28-DAY STRENGTH (MIN)	3,000 PSI
COARSE AGGREGATE (MAX)	¾"
AIR ENTRAINMENT	6% (±1%)
SLUMP	5" (±1")

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.

3. PROTECT THE CONCRETE SURFACE BETWEEN FINISHING OPERATIONS ON HOT, DRY DAYS OR ANY OTHER TIME THAT PLASTIC SHRINKAGE CRACKS COULD DEVELOP BY USING WET BURLAP, PLASTIC MEMBRANE OR FOGGING. PROTECT CONCRETE SLAB AT ALL TIMES FROM RAIN, HAIL OR OTHER INJURIOUS EFFECTS.

4. HOT WEATHER CONCRETE INSTALLATION AS DEFINED BY ACI 305 SHALL BE PERFORMED IN ACCORDANCE WITH ACI 305.

5. COLD WEATHER CONCRETE INSTALLATION AS DEFINED BY ACI 306 SHALL BE PERFORMED IN ACCORDANCE WITH ACI 306. PROVIDE MINIMUM 5-DAY FROST PROTECTION FOR CONCRETE PLACED AND/OR CURED IN COLD WEATHER CONDITIONS.

6. CAST-IN-PLACE CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:	
a. NO. 5 BAR, W31 OR D31 WIRE AND SMALLER	1½"

7. REINFORCING STEEL SHALL BE NEW BILLET STEEL IN ACCORDANCE WITH ASTM A615, GRADE 60. ALL DETAILS SHALL BE IN ACCORDANCE WITH ACI DETAIL STANDARD ACI 315. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 SPECIFICATIONS FOR WELDED STEEL WIRE FABRIC AND PLACED IN ACCORDANCE WITH THE WELDED STEEL WIRE INSTITUTE.

8. EXPOSED TO VIEW CONCRETE FINISH SHALL BE A SMOOTH FORM FINISH IN ACCORDANCE WITH ACI REQUIREMENTS. CONCEALED CONCRETE SURFACES MAY BE A ROUGH FORM FINISH.

9. ALL EXTERIOR SLABS SHALL RECEIVE A BROOM FINISH. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI 302.1 AND 304.

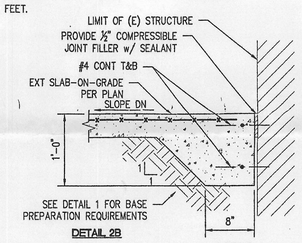
10. POOL PATIO SLAB CONTROL JOINTS SHALL BE MIN 1" PLASTIC "ZIP-STRIPS" OR AN APPROVED SUBSTITUTE.

11. FLEXIBLE JOINT SEALANT SHALL BE SIKAFLEX 1C-SL OR AN APPROVED SUBSTITUTE.

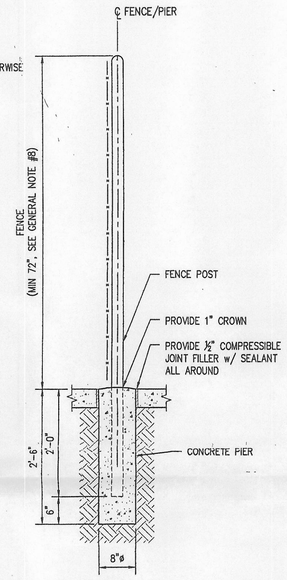
12. SCREED SLAB TO SLOPE LINES SHOWN MAINTAINING SURFACE FLATNESS AND LEVELNESS TOLERANCES IN ACCORDANCE WITH THE FOLLOWING:
    A. SLABS-ON-GRADE: PLACE TO ¼" IN 10 FEET.

ABBREVIATIONS

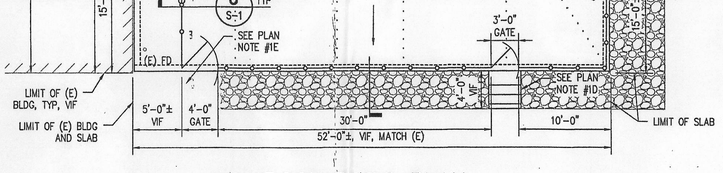
B/	BOTTOM
BLDG	BUILDING
BOT	BOTTOM
BTWN	BETWEEN
CJ	CONTROL JOINT
CONC	CONCRETE
DN	DOWN
DWG	DRAWING
E	EXISTING
EA	EACH
FD	FLOOR DRAIN
FNDN	FOUNDATION
FOC	FACE OF CONCRETE
FS	FAR SIDE
FTG	FOOTING
MAX	MAXIMUM
MIN	MINIMUM
NS	NEAR SIDE
NTS	NOT TO SCALE
SIM	SIMILAR
T/	TOP
T&B	TOP AND BOTTOM
TBD	TO BE DETERMINED
TBR	TO BE REMOVED
TOW	TOP OF WALL
TS	TOP OF SLAB
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
/	
w/	WITH



DETAIL 2B



3 TYPICAL FENCE POST
SCALE: 3/4" = 1'-0"



POOL PATIO PLAN
1/8" = 1'-0"

POOL PATIO PLAN NOTES:

1. DEMOLITION:
   A. REMOVE AND DISPOSE OF EXISTING PERIMETER FENCE.
   B. REMOVE AND DISPOSE OF EXISTING CONCRETE SLAB-ON-GRADE.
   C. REMOVE AND TEMPORARILY STOCKPILE EXISTING RIP-RAP MATERIAL FROM AROUND THE PERIMETER OF THE SLAB.
   D. REMOVE AND RESET EXISTING GRANITE STEPS AND PAVERS AT GATE.
   E. TO THE EXTENT REQUIRED FOR THE WORK, REMOVE AND RESET EXISTING PAVERS ADJACENT TO BUILDING ACCESS AND GATE.
   F. REMOVE AND STOCKPILE ALL EXISTING SOIL MATERIALS WITHIN THE EXCAVATION LIMITS SHOWN ON THE PLAN AND DETAILS AT A LOCATION ON THE P[ROPERTY SELECTED BY THE OWNER.

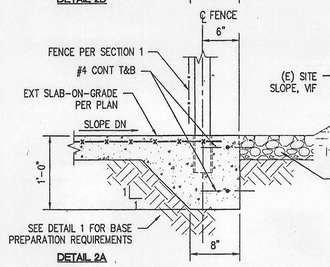
2. SLAB-ON-GRADE:

   EXTERIOR SLAB: 4" THICK NORMAL WEIGHT CONCRETE SLAB-ON-GRADE REINFORCED WITH 6x6 – W2.9xW2.9 WWF AT MID DEPTH. SEE CONCRETE NOTES #10 THROUGH #13.

3. PROTECT ALL EXISTING SITE FEATURES SCHEDULED TO REMAIN IN PLACE THROUGHOUT THE DURATION OF THE WORK. REPLACE IN KIND ANY SITE FEATURES THAT ARE DISTURBED OR DAMAGED DURING THE WORK.

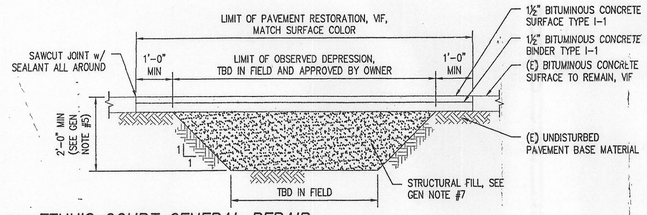
4. DIMENSIONS NOT SHOWN ON THIS PLAN SHALL BE TAKEN FROM THE EXISTING LAYOUT IN THE FIELD.

5. RESTORE POOL COVER ANCHORS IN SLAB TO MATCH EXISTING.

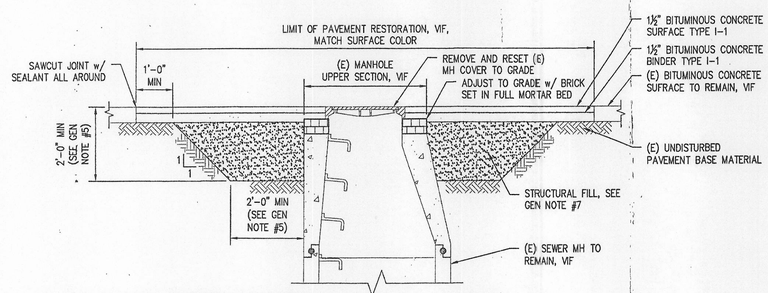


DETAIL 2A

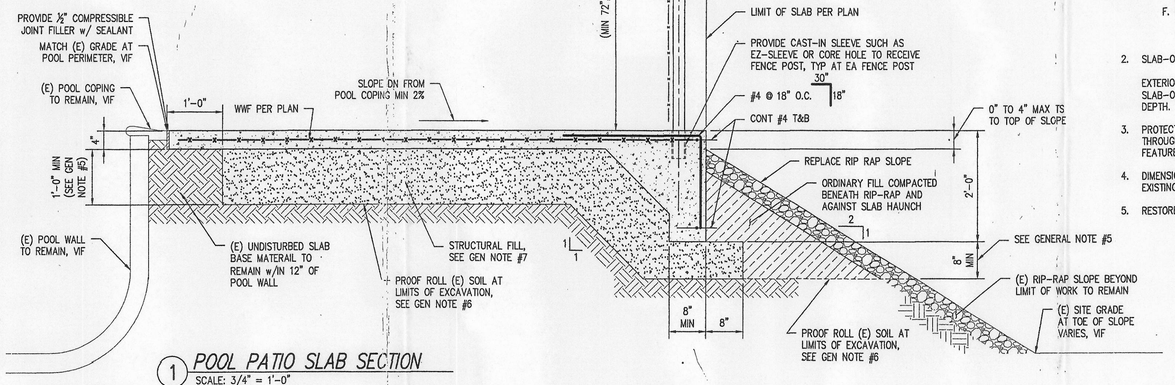
2 SLAB PERIMETER
SCALE: 1" = 1'-0"



5 TENNIS COURT GENERAL REPAIR
SCALE: 1/2" = 1'-0"



4 TENNIS COURT SEWER MANHOLE
SCALE: 1/2" = 1'-0"



1 POOL PATIO SLAB SECTION
SCALE: 3/4" = 1'-0"

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SEAL:

DATE:	BY:	ACTION:

PROJECT LOCATION & TITLE
POOL PATIO & TENNIS COURT RESTORATION
BELLOWS FARM CLUBHOUSE
111 DAVIS ROAD
ACTON, MA

DRAWING TITLE
POOL PATIO PLAN, DETAILS AND SPECIFICATIONS

PROJECT NUMBER: 03685
ARCH PROJECT NUMBER: –
DATE: 03-15-2013
DRAWN BY: BW
CHECKED BY: MJB
SCALE: AS SHOWN
DRAWING NUMBER: S-1
SHEET NUMBER 1 OF 1