#### **GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015, THE 2016 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT SURVEYS. THE CONTRACTOR SHALL EMPLOY A REGISTERED PROFESSIONAL SURVEYOR, REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS, TO COMPLETE ALL CONSTRUCTION LAYOUT IF NECESSARY.

3. THE ACCURACY AND COMPLETENESS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AS SHOWN ON THE PLANS IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT LOCATION, SIZE, TYPE, DEPTH, ETC, OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. ALL TOWN-OWNED UTILITY STRUCTURES, WITHIN AREAS AFFECTED BY THE WORK, SHALL BE ADJUSTED OR REMODELED TO NEW LINE AND GRADE AS DIRECTED BY THE ENGINEER. ANY UTILITY AND/GUY POLES, WITHIN AREAS AFFECTED BY THE WORK, SHALL BE REMOVED AND RESET BY THE RESPECTIVE UTILITY COMPANY. ALTERATIONS TO UTILITIES AND UTILITY STRUCTURES NOT OWNED BY THE TOWN SHALL BE MADE BY THE RESPECTIVE UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORK IN ADVANCE WITH THOSE UTILITY OWNERS. THE CONTRACTOR MUST NOTIFY DIG-SAFE AT 1-811-344-7233 OR 1-888-344-7233 PRIOR TO ANY EXCAVATION IN PUBLIC OR PRIVATE WAYS, UTILITY COMPANY RIGHT-OF-WAY OR EASEMENT

4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY STRUCTURE SHALL BE ACCURATELY DETERMINED AS SOON AS POSSIBLE BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, BYPASSING AND SUPPORTING ALL EXISTING UTILITIES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY UTILITIES DAMAGED DURING CONSTRUCTION.

6. THE CONTRACTOR SHALL VERIFY EXISTING GRADES. IF ANY ADJUSTMENT IS REQUIRED DUE TO DIFFERENT EXISTING GRADES FOUND IN THE FIELD, THE CONTRACTOR SHALL NOTIFY AND OBTAIN THE APPROVAL OF THE ENGINEER PRIOR TO PERFORMING THE WORK.

7. ALL TOPOGRAPHICAL FEATURES SUCH AS TREES ,LIGHT POLES, SIGNS, BOUNDS, LANDSCAPING, FENCES, WALLS, ETC., SHALL BE RETAINED UNLESS NOTED OTHERWISE ON THE PLANS. CASTINGS SHALL BE RESET IN ACCORDANCE WITH NOTE 3.

8. BACK OF PROPOSED SIDEWALK SHALL BE IN SAME LOCATION AS BACK OF EXISTING SIDEWALK OR AT RIGHT OF WAY LIMIT UNLESS OTHERWISE NOTED ON THE PLANS.

9. ALL NEW GRANITE CURB SHALL BE MASSDOT HIGHWAY DIVISION TYPE VB. ANY NEW CURB TO BE USED AT THE BACK OF THE SIDEWALK SHALL BE MASSDOT HIGHWAY DIVISION TYPE VB AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. ALL DRIVEWAY AND WHEELCHAIR RAMP TRANSITION CURB SHALL BE NEW GRANITE CURB. ALL OTHER EXISTING GRANITE CURB AND CURB INLETS SHALL BE REMOVED AND RESET UNLESS EXISTING CURB/INLET IS UNUSABLE. THE EXISTING PAVEMENT SHALL BE SAWCUT BY MEANS OF MECHANICAL SAW TO REMOVE AND RESET OR INSTALL CURBING.

10. CURB SHALL BE INSTALLED IN THE LOCATIONS AS SHOWN ON THE PLANS. ROADWAY SHALL BE SAWCUT PRIOR TO CURB INSTALLATION. SAWCUTTING SHALL BE CONSIDERED INCIDENTAL TO THE GENERAL WORK OF THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE MADE. HOT MIX ASPHALT PAVEMENT FOR PATCHING AFTER CURB INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO THE GENERAL WORK OF THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE MADE.

11. ALL TREES WITHIN THE LIMITS OF WORK SHALL BE RETAINED AND PROTECTED UNLESS OTHERWISE NOTED ON THE PLANS.

12. WHEN WORKING NEXT TO EXISTING TREES, WALLS OR FENCES, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO DISTURB THE EXISTING WALLS, TREES OR FENCES. IF THE CONTRACTOR DOES DAMAGE ANY EXISTING TREES, WALLS OR FENCES AS A RESULT OF THE CONSTRUCTION PROCESS, IT SHALL BE HIS/HER RESPONSIBILITY (THE CONTRACTOR) TO REPAIR ALL DAMAGES AS DIRECTED BY THE ENGINEER. ALL WORK ASSOCIATED WITH THE REPAIR OR REPLACEMENT OF EXISTING TREES, WALLS OR FENCES SHALL BE CONSIDERED AS INCLUDED IN THE BID PRICE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THEREFORE.

13. EXISTING SIDEWALK, IN AREAS OF STONE, BRICK OR CONCRETE WALLS TO REMAIN, SHALL BE SAW-CUT 12 INCHES FROM THE EXISTING WALL AND EXCAVATED, BY MACHINE, UP TO THAT SAW-CUT LINE. EXCAVATION OF THE REMAINDER OF THE EXISTING SIDEWALK, FROM THE SAW-CUT LINE TO THE EXISTING WALL, SHALL BE DONE BY "HAND-WORK," AS DIRECTED BY THE ENGINEER. SAWCUTTING SHALL BE CONSIDERED INCIDENTAL TO THE GENERAL WORK OF THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE MADE.

14. IN AREAS OF NEW SIDEWALK, NEW EDGE OF PAVEMENT OR CURB WITHOUT SIDEWALK OR ANY WORK ADJACENT TO EXISTING GRASS AREAS, EVEN WHEN NO SLOPE-MATCHING OR GRADING IS NECESSARY AND THE EXISTING GRADE IS MET. LOAM AND SEED SHALL BE PROVIDED AS NECESSARY TO REPAIR ANY DAMAGE TO THE GRADE CAUSED BY THE CONSTRUCTION PROCESS, AS DIRECTED BY THE ENGINEER.

15. ALL AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK THAT HAVE BEEN DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER AND THE PROPERTY OWNER.

16. JOINTS BETWEEN EXISTING HOT MIX ASPHALT (HMA) ROADWAY PAVEMENT AND SAW-CUT TO REMOVE AND INSTALL CURB SHALL BE SEALED WITH BITUMEN AND BACKSANDED.

17. MAILBOXES, FENCES, ETC., THAT NEED TO BE RELOCATED SHALL BE REMOVED AND RESET (R&R) IN THEIR NEW LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE OWNER SHALL BE CONSULTED PRIOR TO THE WORK. ALL FENCES AND LANDSCAPING SHALL BE RETAINED AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

18. TRAFFIC CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH MASSDOT HIGHWAY DEPARTMENT REQUIREMENTS AND THE 2009 MUTCD WITH LATEST REVISIONS.

19. SURPLUS MATERIALS OBTAINED FROM ANY TYPE OF EXCAVATION, AND ALL EXISTING AND OTHER MATERIALS NOT REQUIRED TO BE REMOVED AND STACKED OR NEEDED FOR USE ON THE PROJECT. AS DETERMINED BY THE ENGINEER. SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF SUBJECT TO THE REGULATIONS AND REQUIREMENTS OF LOCAL AUTHORITIES GOVERNING THE DISPOSAL OF SUCH MATERIALS, AT NO ADDITIONAL COMPENSATION

20. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN PROPER WATER AND SEWER SERVICE IN THE AREAS UNDER CONSTRUCTION. ALL WORK RELATED TO WATERWORKS AND SEWER IMPROVEMENTS SHALL BE DONE IN ACCORDANCE WITH THE TOWN OF DEDHAM STANDARD DRAWING AND DETAILS. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN TO OBTAIN A COPY OF ALL THE LATEST RELEVANT STANDARDS PRIOR TO CONSTRUCTION. ALL WORK NECESSARY TO LEAVE THE WATER AND SEWER FACILITIES IN A CLEAN AND OPERABLE CONDITION INCLUDING ANY TEMPORARY FACILITIES, TESTING OR DISINFECTION SHALL BE CONSIDERED INCIDENTAL TO THE WORK OF THE VARIOUS WATER AND SEWER PAY ITEMS. NO ADDITIONAL COMPENSATION SHALL BE MADE.

21. ACCESS FOR ABUTTERS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL ERECT TEMPORARY FENCING AS REQUIRED TO SECURE THE SITE FOR THE PURPOSE OF PUBLIC SAFETY. THE WORK SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING, REMOVING, RESETTING, AND FINAL REMOVAL OF CHAIN-LINK FENCE IN A LOCATION DIRECTED BY THE ENGINEER. THE FENCE SHALL BE USED TO CLOSE OFF THE CONSTRUCTION AREA FROM ADJACENT SIDEWALKS AND PUBLIC WAYS WHOSE USE CONFLICTS WITH THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE AND/OR RESTORE SECTIONS OF FENCE DAMAGED DUE TO THE CONSTRUCTION, AND/OR ACCIDENTS, VANDALISM OR IN ANY OTHER MANNER FOR THE DURATION OF THE PROJECT. ALL WORK TO FURNISH, INSTALL, RELOCATE AND REMOVE TEMPORARY FENCING SHALL BE CONSIDERED INCIDENTAL TO AND NO SEPARATE PAYMENT WILL BE MADE.

22. TRAFFIC CONTROL MEASURES INCLUDING BUT NOT LIMITED TO DRUMS, CONES, SIGNS AND BARRICADES AS REQUIRED TO COMPLETE THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE GENERAL WORK OF THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

23. ON-THE-GROUND SURVEY PROVIDED BY LIGHTHOUSE LAND SURVEY. DATED: APRIL, 2017. THE HORIZONTAL DATUM IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

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SUBCONSULTANT

SCALE \_

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MCDONALD SQUARE SIDEWALK IMPROVEMENTS DEDHAM, MASSACHUSETTS

5613 BETA JOB NO. 10/6/17 ISSUE DATE \_

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**GENERAL NOTES** 

WHEELCHAIR RAMP NOTES

1. ALL WHEELCHAIR RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB), THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE LATEST MASSDOT HIGHWAY DIVISION WHEELCHAIR RAMP STANDARDS.

2. THE LOCATIONS OF THE PROPOSED WHEELCHAIR RAMPS ARE SHOWN ON THE CONSTRUCTION PLANS. ADDITIONAL TYPICAL DETAILS ARE SHOWN IN THE CONSTRUCTION DETAILS.

3. PROPOSED WHEELCHAIR RAMP SLOPES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE POURING OF CONCRETE, AND ADJUSTED, IF NECESSARY, TO CONFORM TO THE LATEST ADAAG/PROWAG/MAAB STANDARDS, AS DIRECTED BY THE

4. ALL PROPOSED CURB FOR WHEELCHAIR RAMP TRANSITIONS SHALL BE CUT AND TRANSITIONED AS NECESSARY TO PROVIDE THE CORRECT TRANSITION LENGTHS FOR EACH WHEELCHAIR RAMP, AS SHOWN ON THE WHEELCHAIR RAMP DETAILS OR AS DIRECTED BY THE ENGINEER. ANY EXISTING CURB INLETS IN AREAS OF NEW WHEELCHAIR RAMP TRANSITIONS SHALL BE REMOVED AND REPLACED WITH APPROPRIATE TRANSITION CURB AS DIRECTED BY THE ENGINEER.

5. IN NO CASE, EXCEPT FOR MAXIMUM LENGTH HIGH SIDE TRANSITIONS (SLOPES GREATER THAN 4%) SHALL ANY TRANSITION SLOPE OF ANY WHEELCHAIR RAMP EXCEED 7.5%.

6. WHEN PLACEMENT OF THE PROPOSED WHEELCHAIR RAMP IS SUCH THAT IT IS UNAVOIDABLE FOR EXISTING STRUCTURES, THAT CANNOT BE MOVED OR RESET, TO BE WITHIN THE WHEELCHAIR RAMP, EXTREME CARE SHALL BE TAKEN SUCH THAT THE EXISTING STRUCTURE IS WITHIN THE RAMP TRANSITIONS ONLY. IF POSSIBLE, WHEN THE NEW WHEELCHAIR RAMP IS PLACED AND THAT A FOUR FOOT WIDE (MIN). CLEAR PATH OF TRAVEL EXISTS BETWEEN THE EXISTING STRUCTURE AND EITHER THE CURBLINE OR THE BACK OF SIDEWALK. AS DIRECTED BY THE ENGINEER.

7. IN RARE INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER EXISTING "SURFACE" TYPE STRUCTURE WHICH CANNOT BE REMOVED AND RESET, IS WITHIN THE ACTUAL WHEELCHAIR RAMP PATH, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OF THE STRUCTURE COVER SHALL BE FLUSH WITH THE NEW RAMP SURFACE AND SHALL MATCH THE SLOPE OF THE NEW WHEELCHAIR RAMP EXACTLY, AS DIRECTED BY THE ENGINEER.

8. ALL WHEELCHAIR RAMPS WITHIN THE PROJECT LIMITS SHALL HAVE DETECTABLE WARNING PANELS INSTALLED IN ACCORDANCE WITH MASSDOT STANDARD DRAWING E 107.6.5.

## **PAVEMENT NOTES**

### HMA SIDEWALKS

SURFACE COURSE: 1-1/4"" HMA TOP COURSE OVER

1-1/4" HMA BASE COURSE OVER

BASE COURSE: 8" GRAVEL BORROW, TYPE b

## CEMENT CONCRETE WHEELCHAIR RAMP

SURFACE COURSE: 4" CEMENT CONCRETE SURFACE 4000 PSI, 3/4", 610 OVER

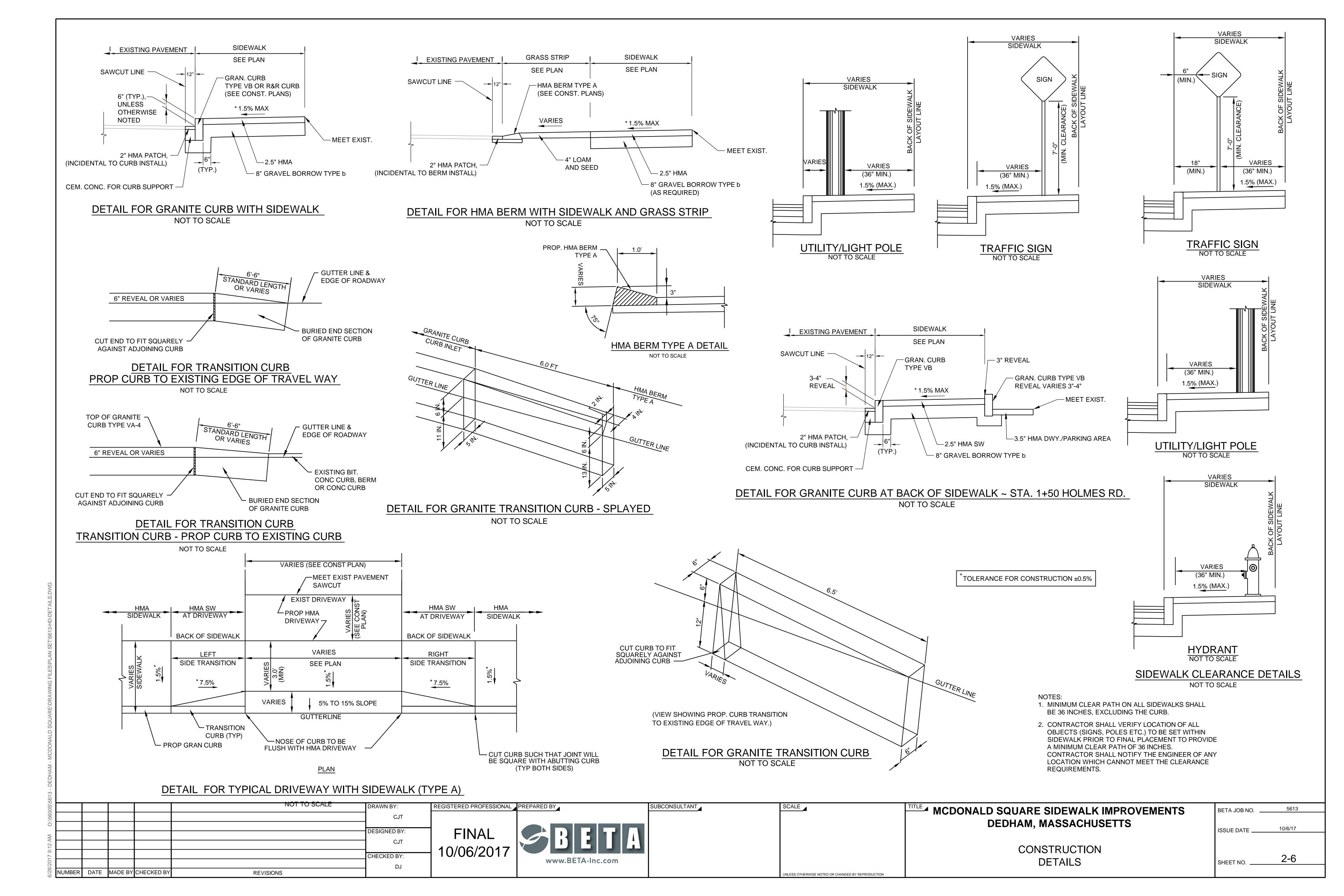
8" GRAVEL BORROW, TYPE b BASE COURSE:

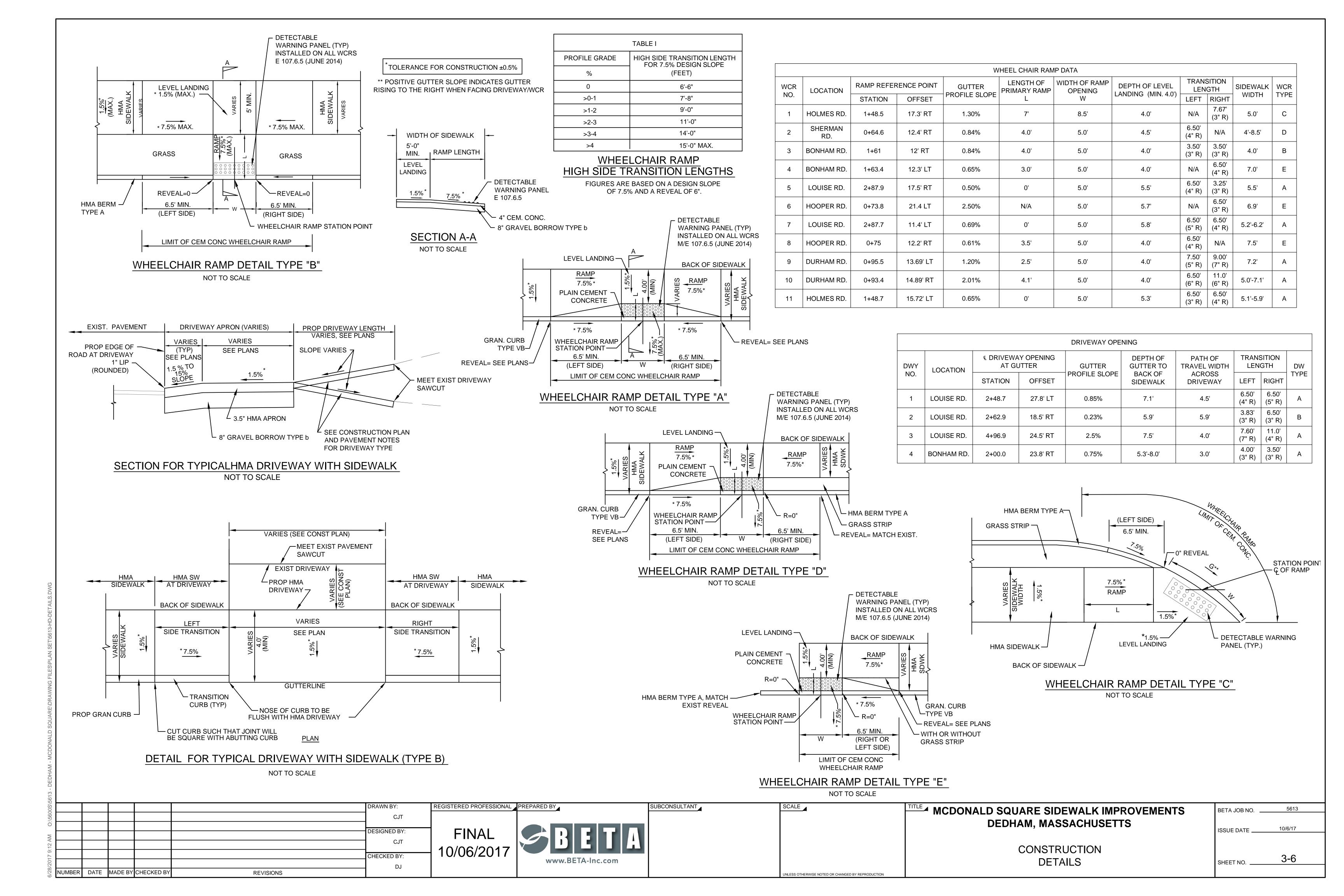
# **HMA DRIVEWAYS**

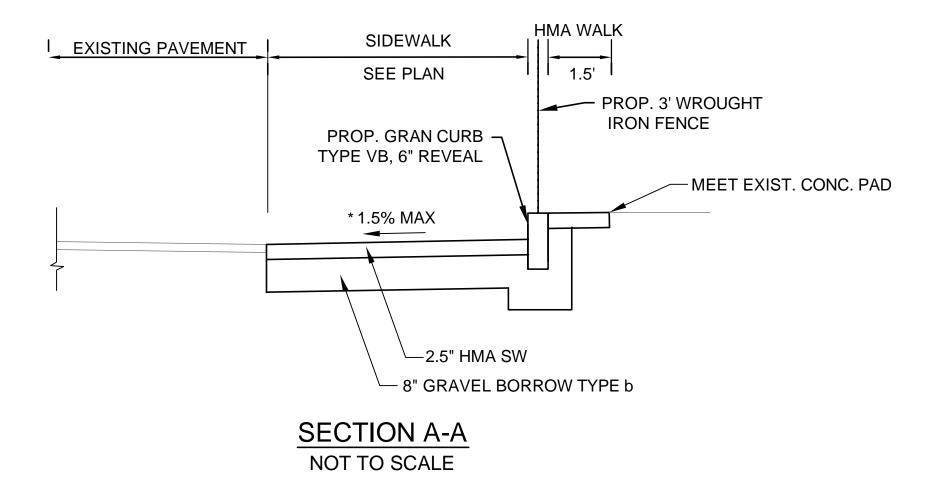
SURFACE COURSE: 1-1/2" HMA TOP COURSE OVER

2" HMA BASE COURSE OVER

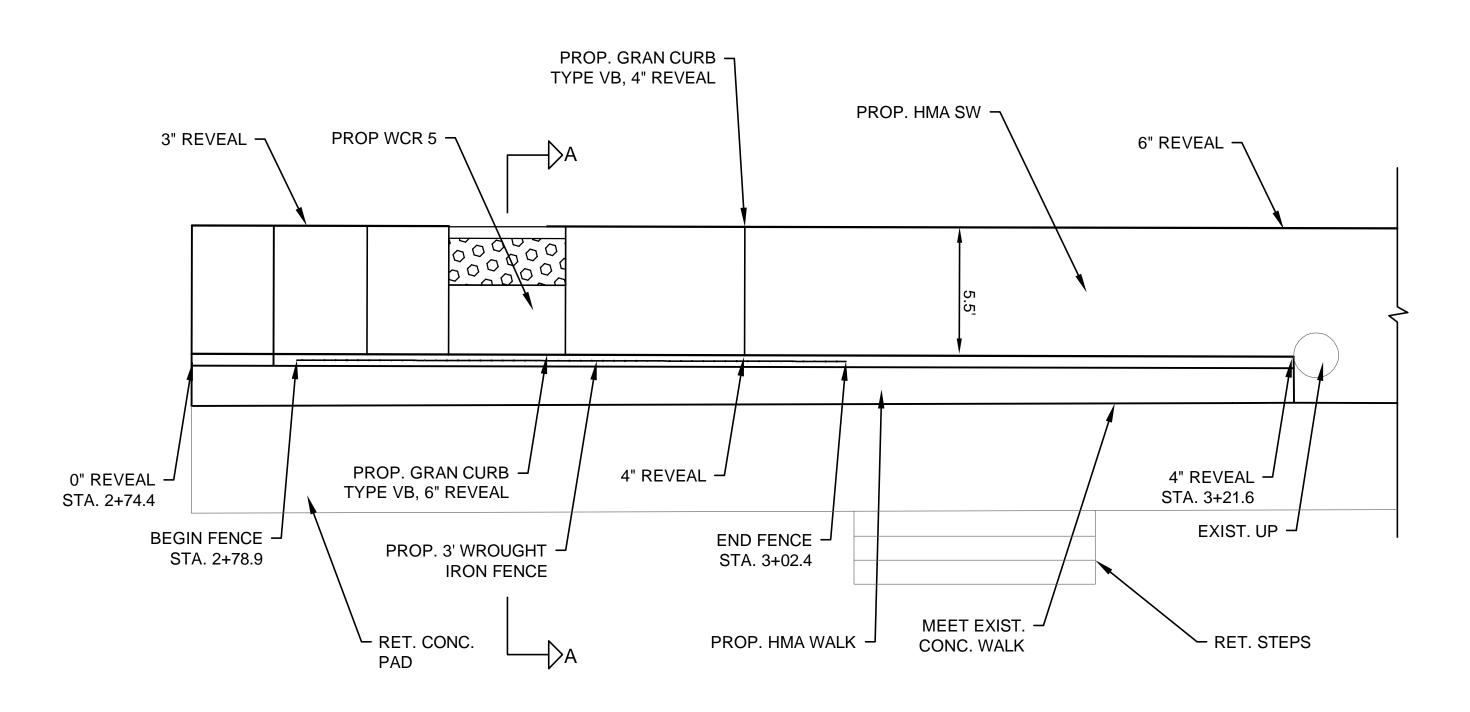
BASE COURSE: 8" GRAVEL BORROW, TYPE b







\*TOLERANCE FOR CONSTRUCTION ±0.5%



DETAIL FOR SIDEWALK AND WHEELCHIAR RAMP AT ~ STA. 2+88

NOT TO SCALE

DRAWN BY: REGISTERED PROFESSIONAL PREPARED BY SUBCONSULTANT SCALE MCDONALD SQUARE SIDEWALK IMPROVEMENTS 5613 BETA JOB NO. \_ CJT DEDHAM, MASSACHUSETTS 10/6/17 FINAL ISSUE DATE \_\_\_ DESIGNED BY: CJT CONSTRUCTION 10/06/2017 CHECKED BY: 4-6 www.BETA-Inc.com DETAILS SHEET NO. \_\_ NUMBER DATE MADE BY CHECKED BY REVISIONS NLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

