


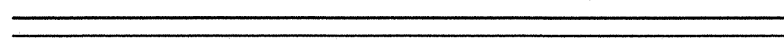
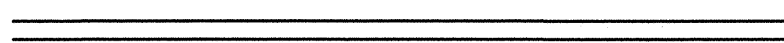
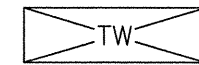

ROADWAY NOTES

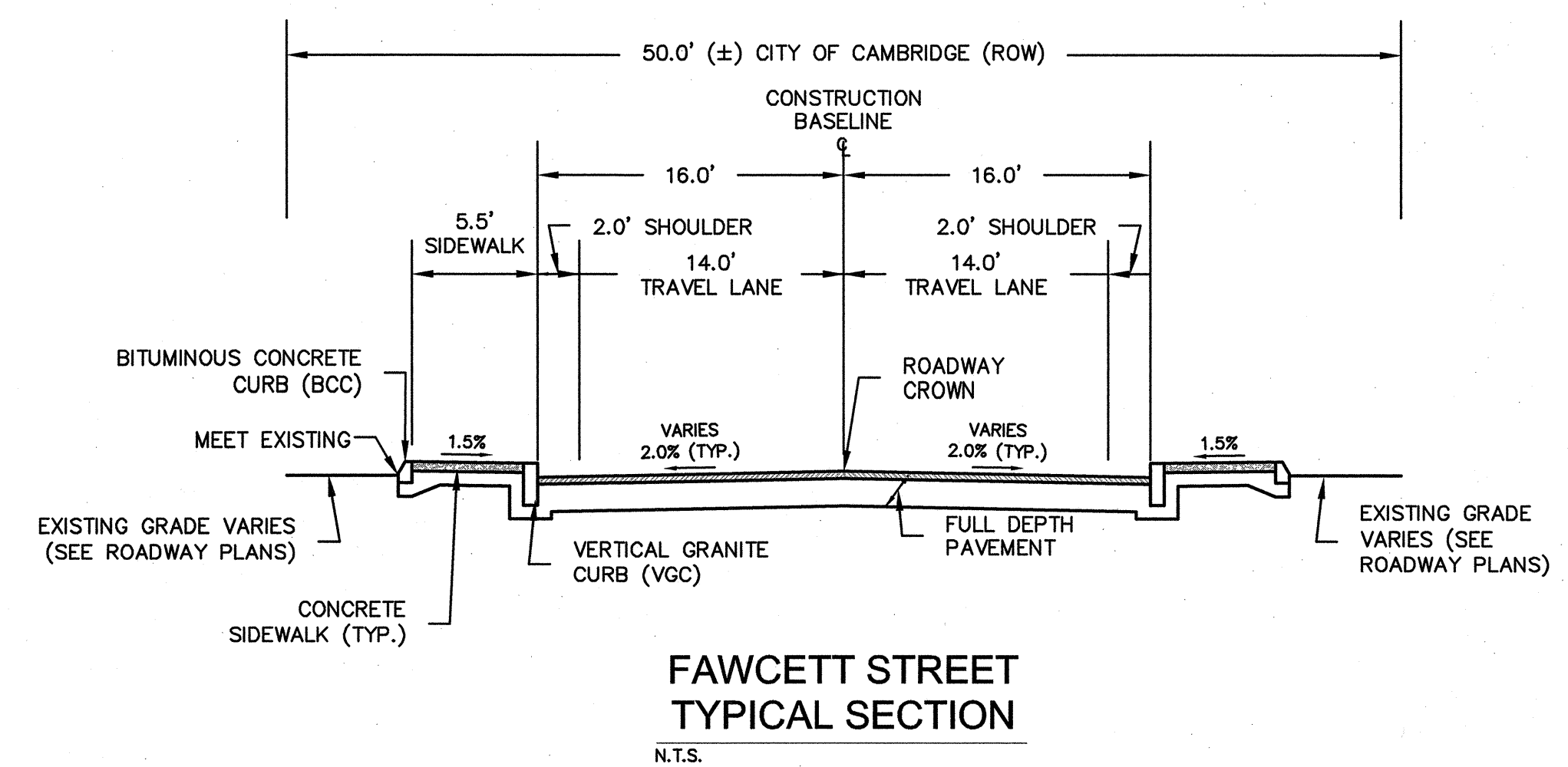
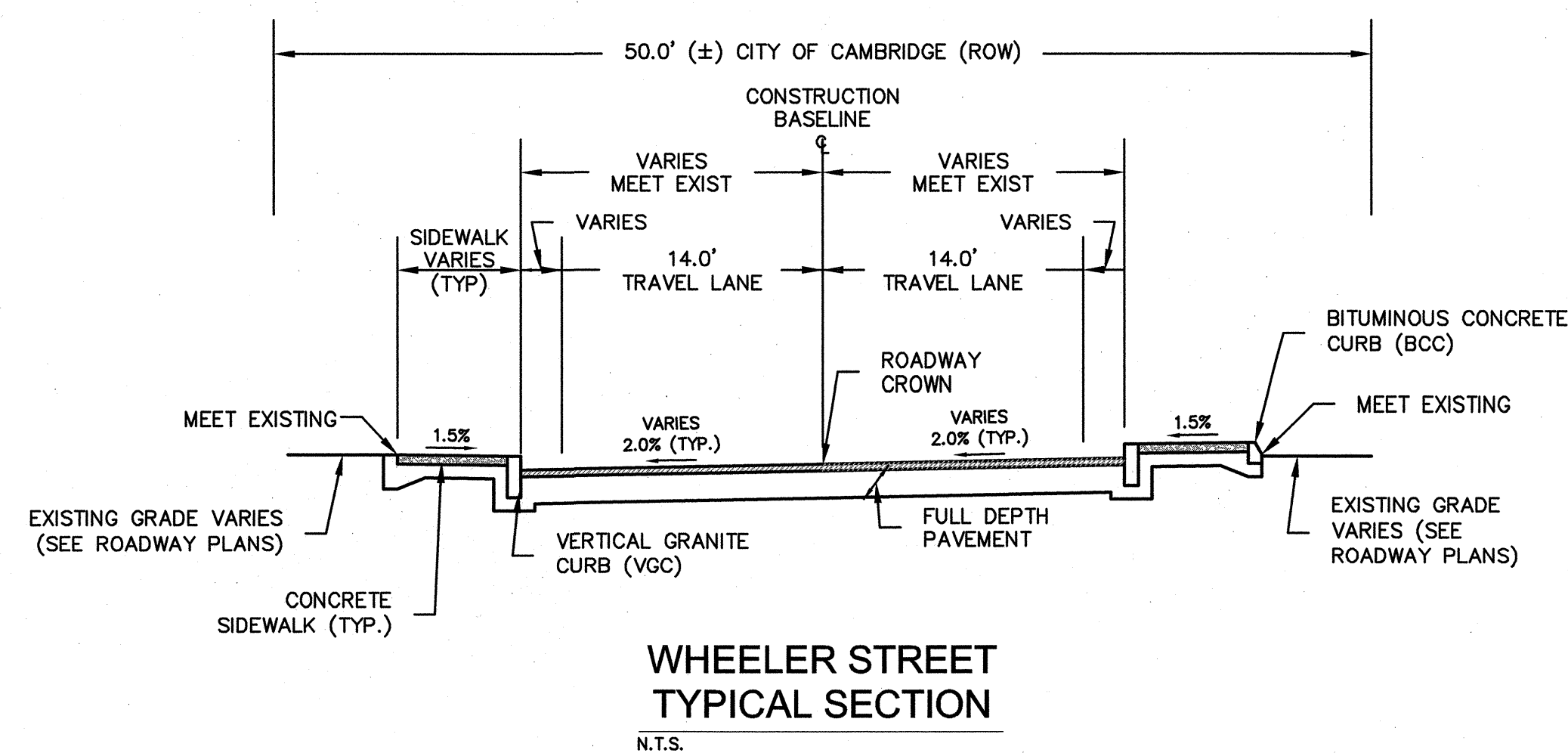
1. DEPTHS OF EXISTING PAVEMENT BASES AND SURFACE COURSES HAVE NOT BEEN VERIFIED AND, THEREFORE, ARE NOT INDICATED.
2. THE CONTRACTOR SHALL INSTALL PAVEMENT, CURBS AND SIDEWALKS TO MATCH EXISTING GRADES AND MAINTAIN EXISTING DRAINAGE CONDITIONS UNLESS OTHERWISE NOTED ON THE CONTRACT DRAWINGS OR DIRECTED BY THE ENGINEER. THE CREATION OF LOW POINTS WITHOUT DRAINAGE SHALL NOT BE PERMITTED.
3. FOR INSTALLATION OF PAVEMENTS, SIDEWALK, AND CURB WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN, EXISTING ROOTS SHALL BE PRUNED IN ACCORDANCE WITH THE SPECIFICATIONS AND EXCAVATION SHALL BE BY HAND.
4. THE CONTRACTOR SHALL PROVIDE A CLEAN, SMOOTH SAWCUT EDGE WHERE EXISTING PAVEMENT IS TO BE REMOVED OR NEW PAVEMENT IS TO ABUT EXISTING PAVEMENT.
5. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL PROPOSED WORK ON SITE FOR THE ENGINEER'S REVIEW PRIOR TO COMMENCING WORK.
6. WITHIN THE LIMIT OF WORK, THE CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED DRAINAGE, SEWER, WATER, AND OTHER CITY, DCR OR MWRA CASTINGS TO FINAL GRADE AND INTERIM GRADES, AS PER THE SPECIFICATIONS. ADJUSTMENTS OF PRIVATE UTILITY CASTINGS WILL BE PERFORMED BY THE RESPECTIVE UTILITY COMPANY AND COORDINATED BY CONTRACTOR.
7. THE CONTRACTOR SHALL RETAIN IN GOOD WORKING CONDITION ALL EXISTING DRAINAGE, SANITARY SEWER AND OTHER UTILITIES UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL PROPOSED AND EXISTING (TO REMAIN) CATCH BASINS.
8. THE CONTRACTOR SHALL INSTALL AND MAINTAIN APPROVED SILT SACK EROSION CONTROL DEVICES AROUND PROPOSED AND EXISTING (TO REMAIN) CATCH BASIN FRAMES AND GRATES TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM DURING CONSTRUCTION. SILT SACK EROSION CONTROL DEVICES TO BE REMOVED WHEN DIRECTED BY THE ENGINEER AND REPLACED AS DIRECTED.
9. THE CONTRACTOR IS RESPONSIBLE TO REPLACE AND RESET ALL CURB, BERM AND SIDEWALK DAMAGED BY CONSTRUCTION AT NO ADDITIONAL CHARGE TO THE CITY. CONTRACTOR WILL NOT BE COMPENSATED FOR WORK OUTSIDE OF THE TRENCH PAYMENT LIMITS AND OTHER LIMITS OF WORK.
10. SIDEWALK RAMPS SHALL BE INSTALLED AT A MAXIMUM 1:12 SLOPE.
11. EXISTING CONCRETE SIDEWALKS SHALL BE REPLACED WITH NEW CONCRETE SIDEWALKS TO THE LIMITS SHOWN ON THE CONTRACT DRAWINGS, OR TO MATCH EXISTING CONDITIONS AS DIRECTED.
12. DRIVEWAY APRONS SHALL BE REPLACED AS NOTED ON CONTRACT DOCUMENTS AND INSTALLED TO MATCH EXISTING GRADES UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS.
13. CONTRACTOR SHALL SLOPE ROADWAY GUTTER LINES CONSISTENTLY AND EVENLY BETWEEN BOTTOM OF CURB (BOC) ELEVATIONS INDICATED ON THE CONTRACT DRAWINGS.
14. "EXISTING SUITABLE MATERIAL" (IN LIEU OF IMPORTED GRAVEL SUBBASE) FOR PAVEMENT AND SIDEWALK BASE COURSES SHALL BE DETERMINED BY THE ENGINEER.
15. WHERE PROPOSED WORK MEETS EXISTING SURFACE CONDITIONS THE CONTRACTOR SHALL SAWCUT AND REMOVE EXISTING PAVEMENT AS REQUIRED TO MATCH EXISTING GRADES.

ABBREVIATIONS

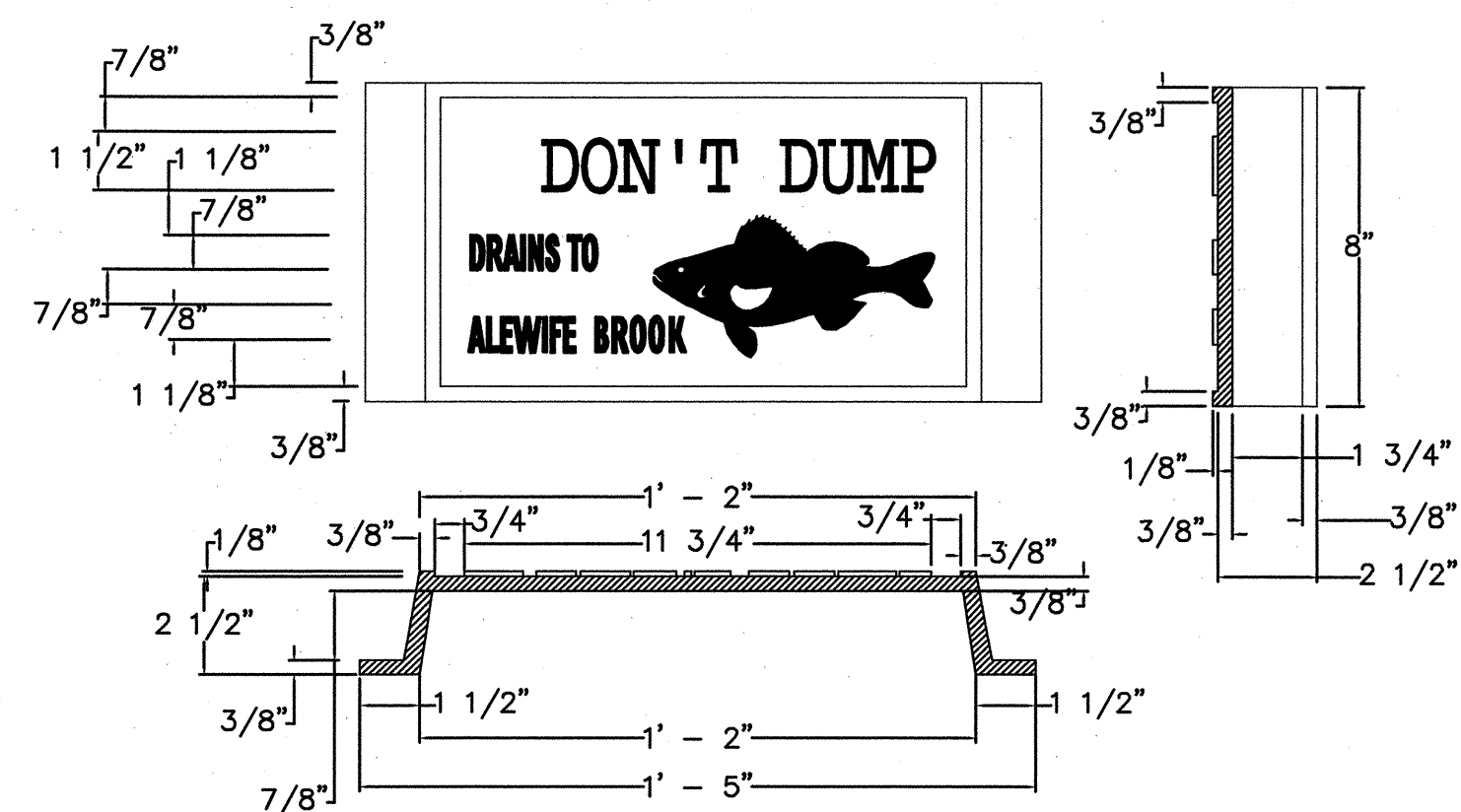
| | |
|-----|--------------------------|
| DYL | DOUBLE SOLID YELLOW LINE |
| BOC | BOTTOM OF CURB |
| TOC | TOP OF CURB |

LEGEND

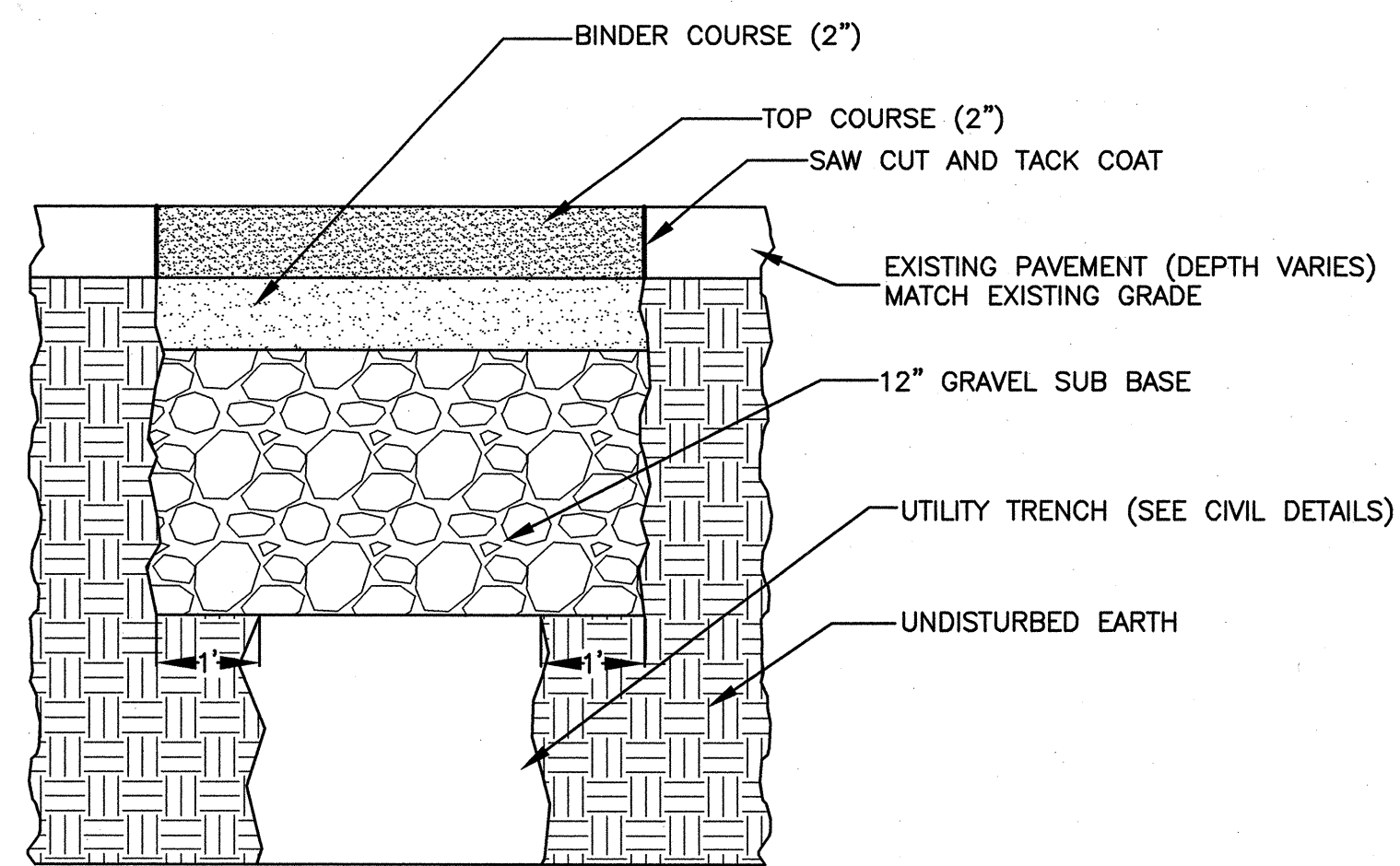
| | |
|---|--------------------------|
|  | CONSTRUCTION BASELINE |
|  | VERTICAL GRANITE CURB |
|  | BITUMINOUS CONCRETE CURB |
|  | TREE WELL BOX |
|  | SIGN |



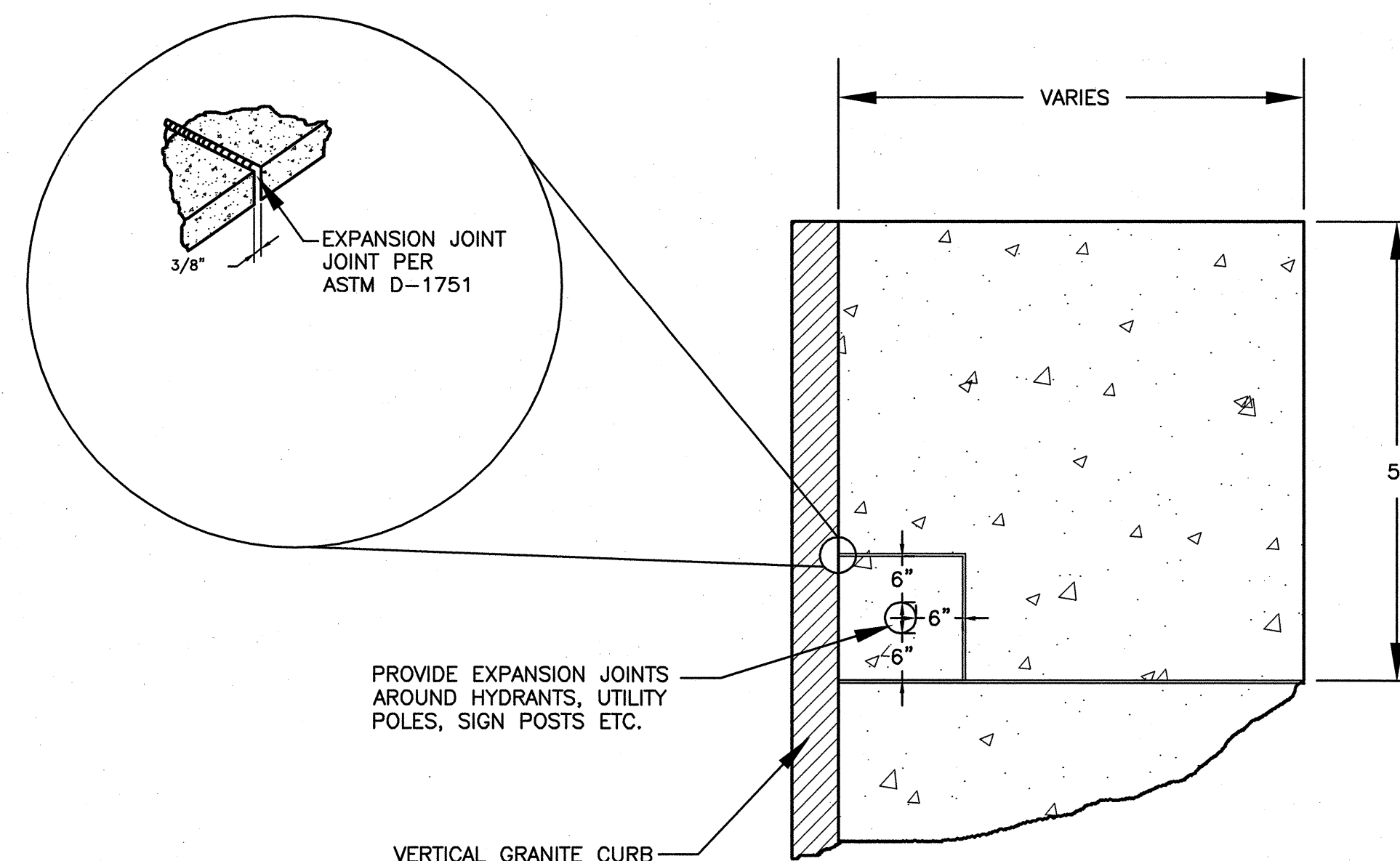
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SET



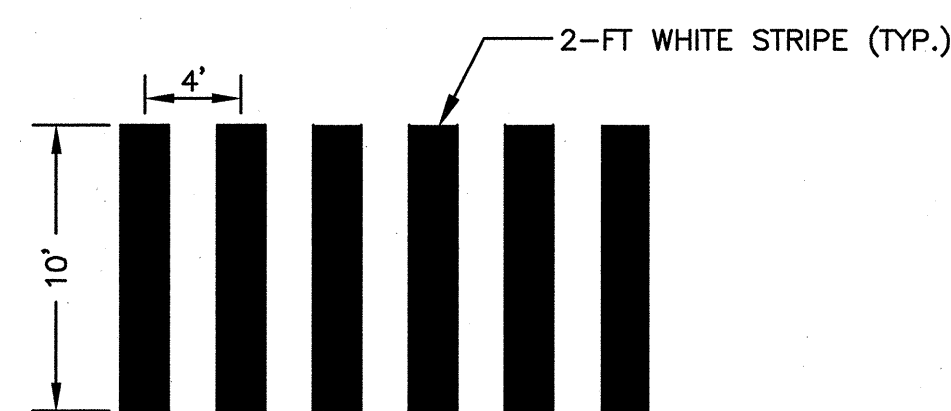
"DON'T DUMP" CATCH BASIN SIGN
N.T.S.



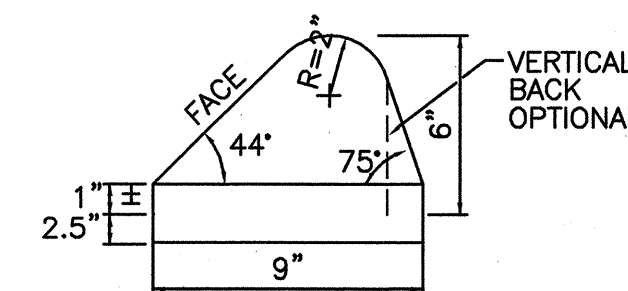
**PARKING AREA PERMANENT PAVEMENT
DETAIL**
N.T.S.



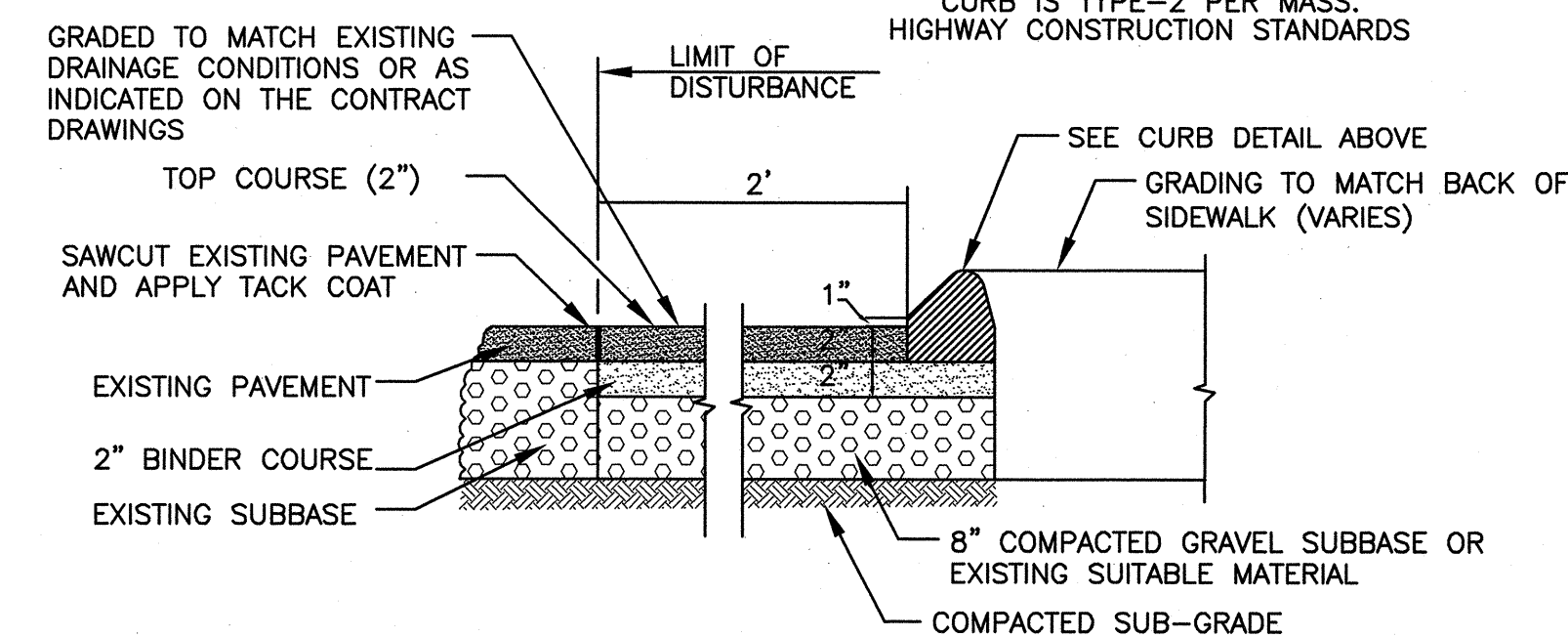
SIDEWALK EXPANSION JOINT DETAIL
N.T.S.



CAMBRIDGE STANDARD CROSSWALK
N.T.S.



CURB DETAIL
CURB IS TYPE-2 PER MASS.
HIGHWAY CONSTRUCTION STANDARDS



**PERMANENT PARKING LOT PAVEMENT AND
BITUMINOUS CONCRETE CURB DETAIL**
N.T.S.

**CONFORMED
SET**

| | | | | |
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| Scale | AS NOTED | | | |
| Date | SEPTEMBER 1, 2010 | | | |
| Job No. | 1998400.12 | | | |
| Designed by | SFJ | | | |
| Drawn by | SFJ | | | |
| Checked by | SFJ | No. | Description | Date |
| Approved by | VWS | | REVISIONS | |

PAVEMENT NOTES

PROPOSED ROADWAY RECONSTRUCTION

DEPTH OF BLADE: 8"
 SURFACE: 2" HOT MIX ASPHALT TOP COURSE
 4" HOT MIX ASPHALT BASE COURSE
 SUBBASE: 2" (MAX) PULVERIZED MATERIAL

COLD PLANE AND OVERLAY

COLD PLANE: 2"
 OVERLAY: 2" HOT MIX ASPHALT TOP COURSE
 TACKCOAT: BITUMEN FOR TACK COAT (RS-1) AT 1/20 GAL/SY OVER COLD PLANED SURFACE

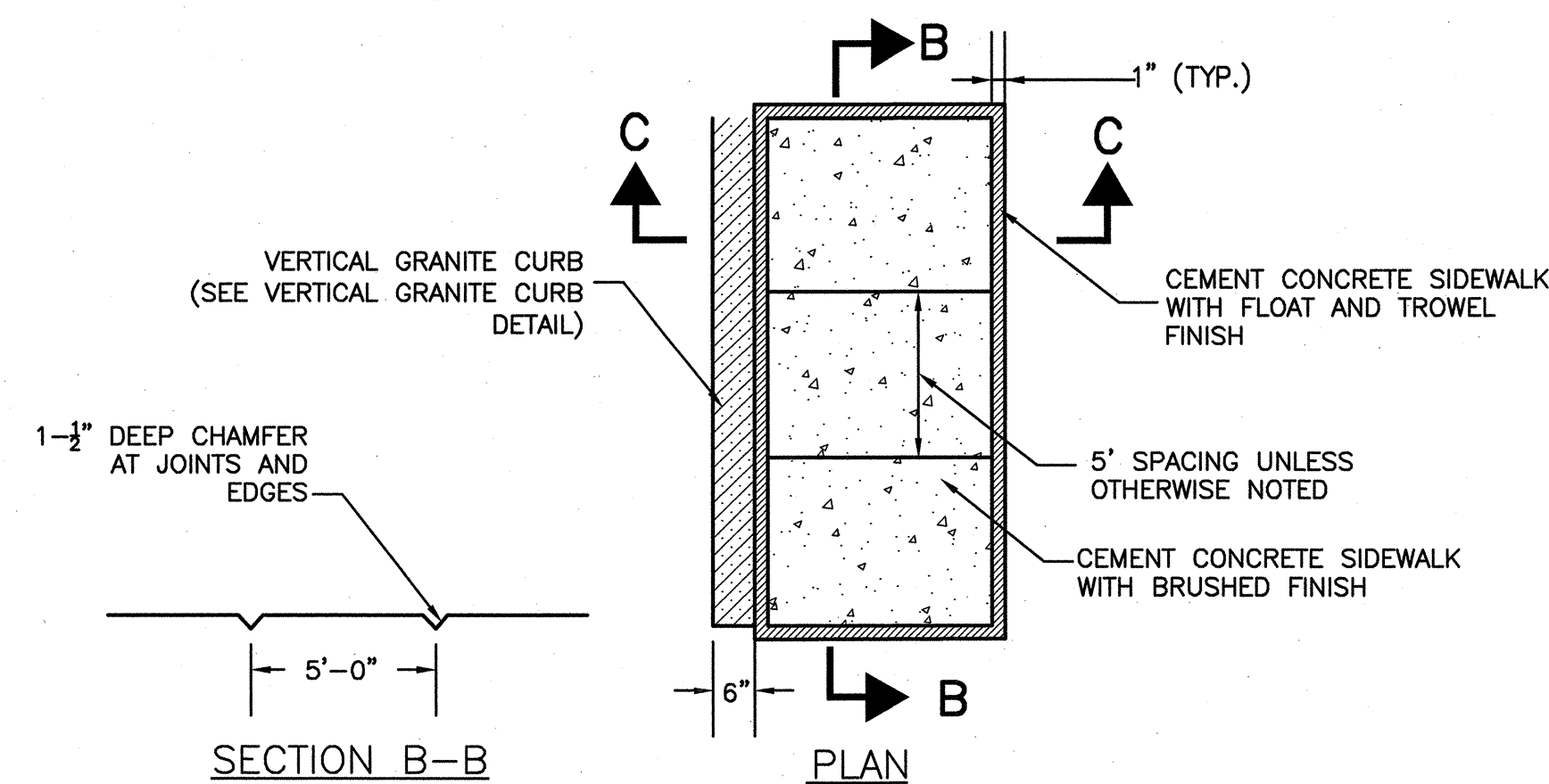
SUBSURFACE: RUBBERIZED ASPHALT SEALER PRIOR TO PAVING

PROPOSED CEMENT CONCRETE SIDEWALK & PEDESTRIAN RAMPS

SURFACE: 4" AIR-ENTRAINED 4,000 PSI, 3/4", 610 CEMENT CONCRETE LAID IN ONE (1) LAYER
 SURFACE: 1 LBS OF POLYPROPYLENE MICRO-FIBER PER CUBIC YARD, AND 1.5 TO 2 LBS OF LAMP BLACK PER CUBIC YARD
 SUBBASE: 8" GRAVEL BORROW, TYPE C

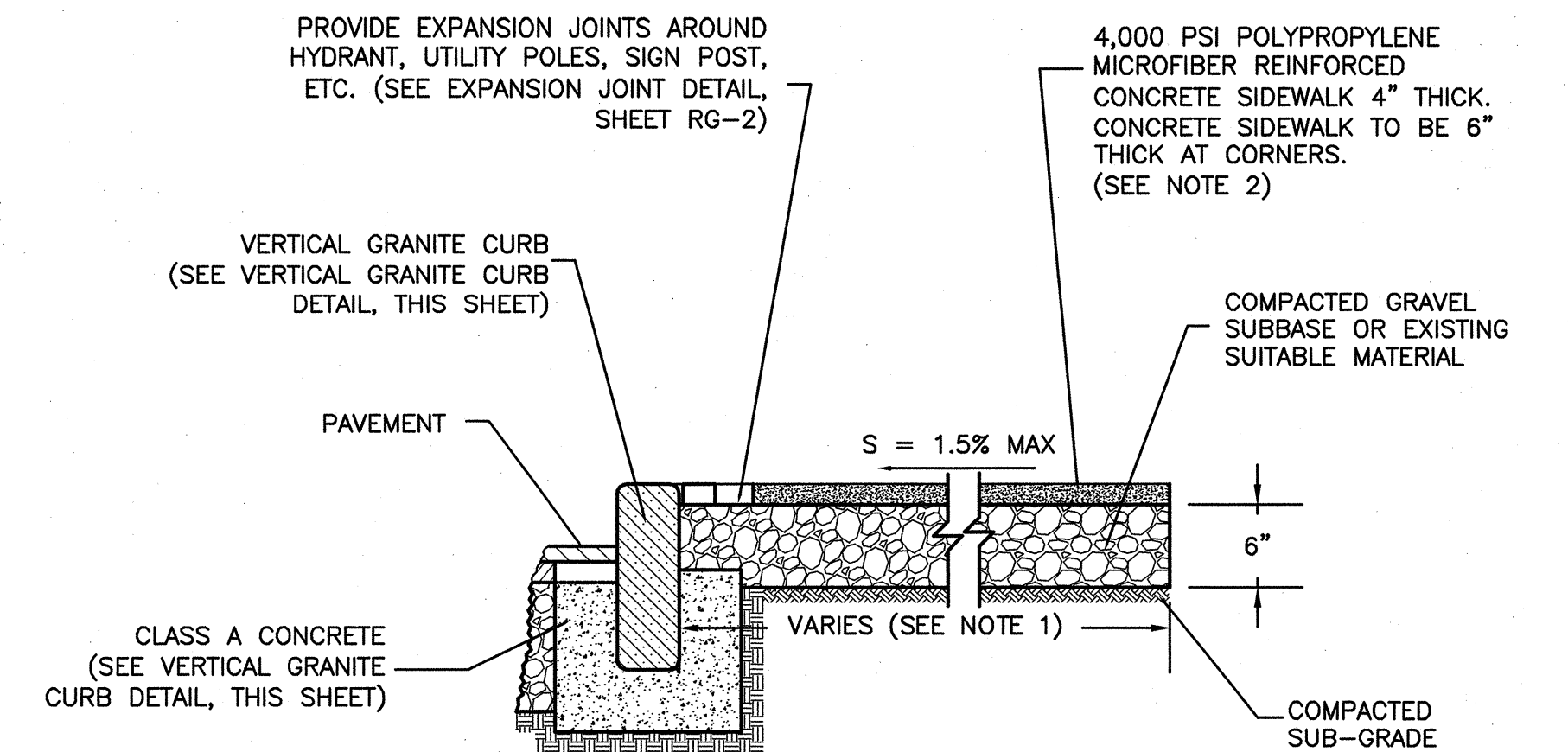
PROPOSED CEMENT CONCRETE DRIVEWAYS, CEMENT CONCRETE SIDEWALKS AT DRIVEWAYS, AND SIDEWALK AT CORNERS

SURFACE: 6" AIR-ENTRAINED 4,000 PSI, 3/4", 610 CEMENT CONCRETE LAID IN ONE (1) LAYER
 SURFACE: 1 LBS OF POLYPROPYLENE MICRO-FIBER PER CUBIC YARD, AND 1.5 TO 2 LBS OF LAMP BLACK PER CUBIC YARD
 SUBBASE: 8" GRAVEL BORROW, TYPE C



NOTES:

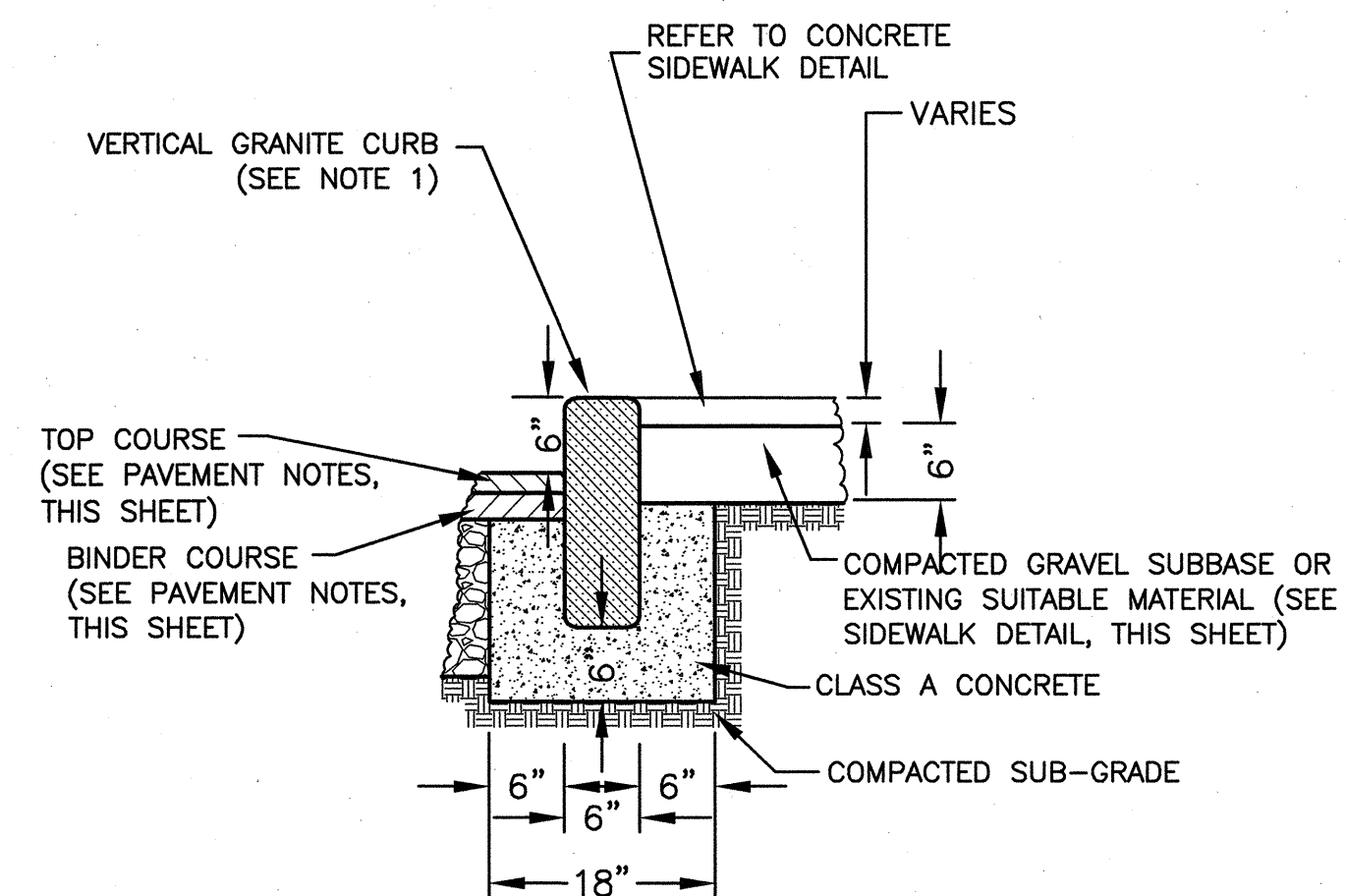
1. NEW SIDEWALK SHALL MATCH WIDTH OF EXISTING SIDEWALK UNLESS OTHERWISE NOTED.
2. SIDEWALK MATERIAL TO MATCH EXISTING SIDEWALK. FOR ASPHALT SIDEWALK, SUBSTITUTE 4" CONCRETE FOR 2.5" ASPHALT.
3. AROUND HYDRANTS, UTILITY POLES SIGN POSTS ETC., SEE EXPANSION JOINT DETAIL
4. SIDEWALKS TO BE BUILT ACCORDING TO ADA AND MA AAB REGULATIONS, 1.5% MAX PREFERRED (NOT TO EXCEED 2.0%) CROSS SLOPE.
5. SEE CONSTRUCTION, GRADING, AND CURBING PLANS FOR SIDEWALK GRADES AND LIMITS.



SECTION C-C

CONCRETE SIDEWALK DETAIL

N.T.S.



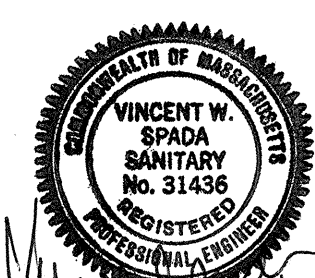
NOTES:

1. NEW VERTICAL GRANITE CURB SHALL BE INSTALLED IN ALL LOCATIONS WHERE EXISTING GRANITE CURB IS UNSUITABLE AS DIRECTED BY THE ENGINEER OR AS SHOWN ON THE CONTRACT DRAWINGS.
2. NEW VERTICAL GRANITE CURB SHALL BE 6" WIDE x 18" HIGH TYPE VA-4 GRANITE CURB.

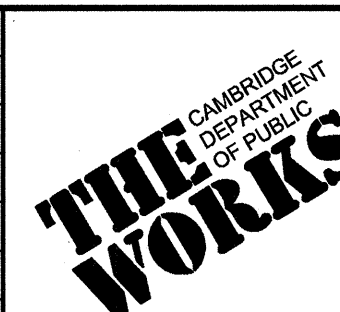
VERTICAL GRANITE CURB DETAIL

N.T.S.

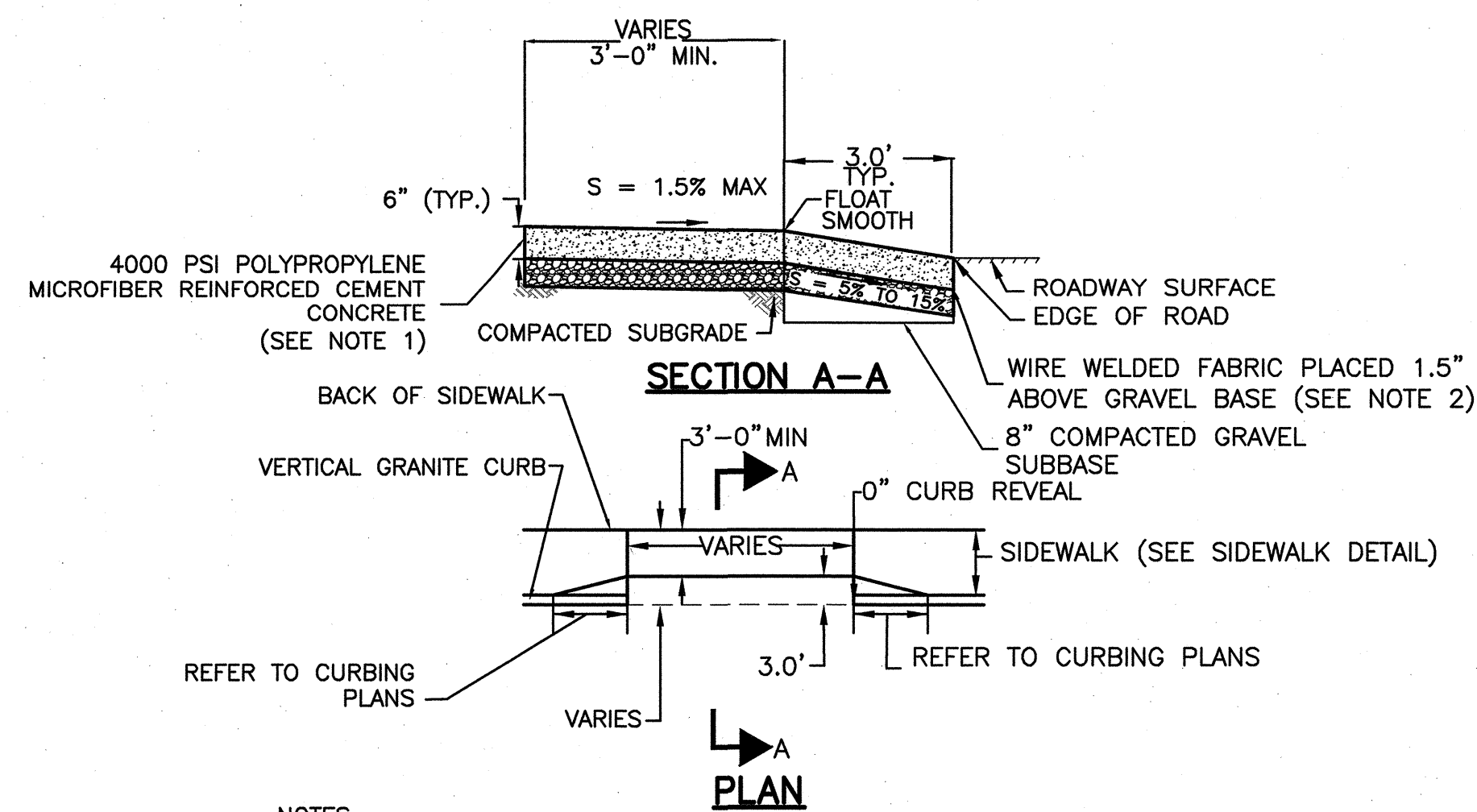
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| Scale | AS NOTED | | | |
| Date | SEPTEMBER 1, 2010 | | | |
| Job No. | 1998400.12 | | | |
| Designed by | SFJ | | | |
| Drawn by | SFJ | | | |
| Checked by | SFJ | No. | Description | Date |
| Approved by | VWS | | REVISIONS | |

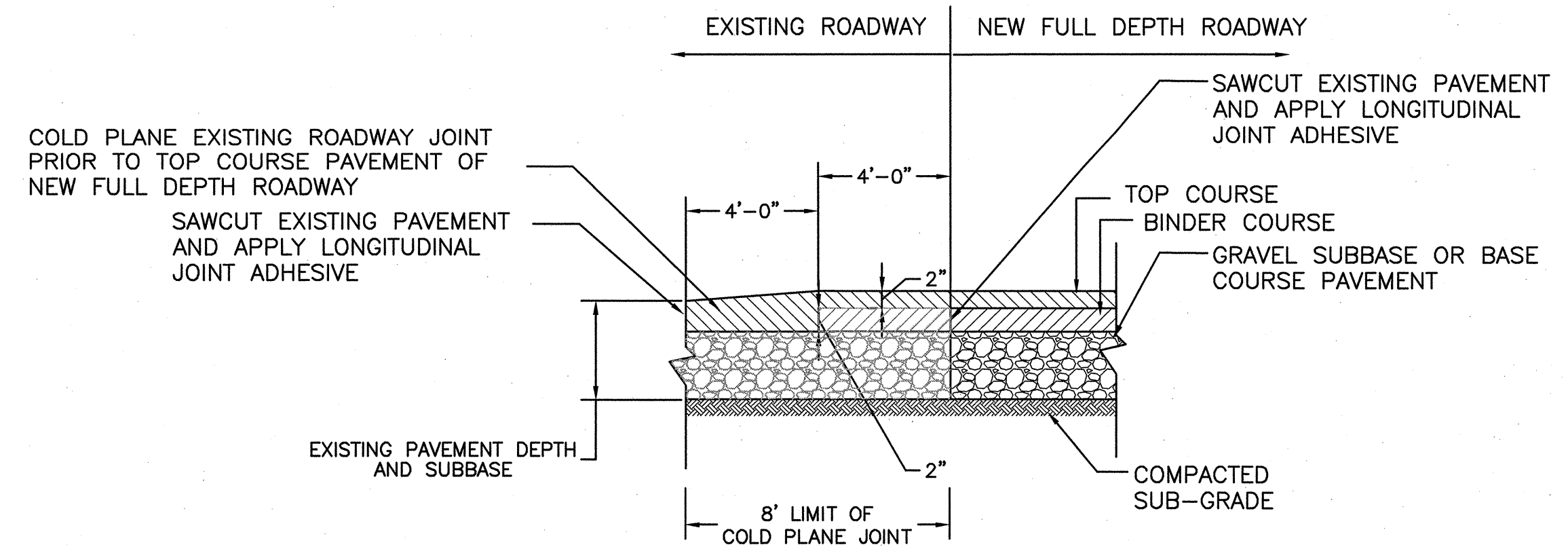


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| CITY OF CAMBRIDGE, MASSACHUSETTS | Sheet No. |
| CAMBRIDGEPARK DRIVE AREA DRAINAGE IMPROVEMENTS | RG-3 |
| CONTRACT NO. 12 | File No. |
| ROADWAY RESTORATION DETAILS | |



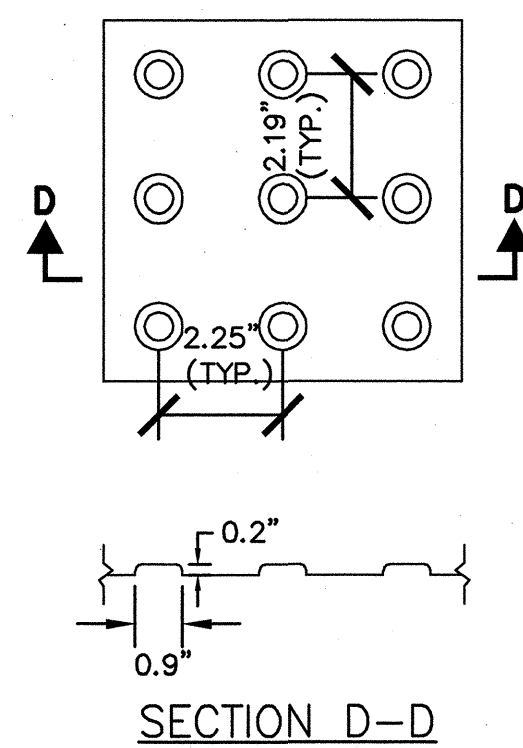
- NOTES:**
1. FOR COMMERCIAL DRIVEWAYS, USE 9" OF CONCRETE
 2. FOR COMMERCIAL DRIVEWAYS, #3 REINFORCING BARS SHALL BE PLACED 12" O.C., 3" FROM GRAVEL BASE

CONCRETE DRIVEWAY APRON DETAIL
N.T.S.



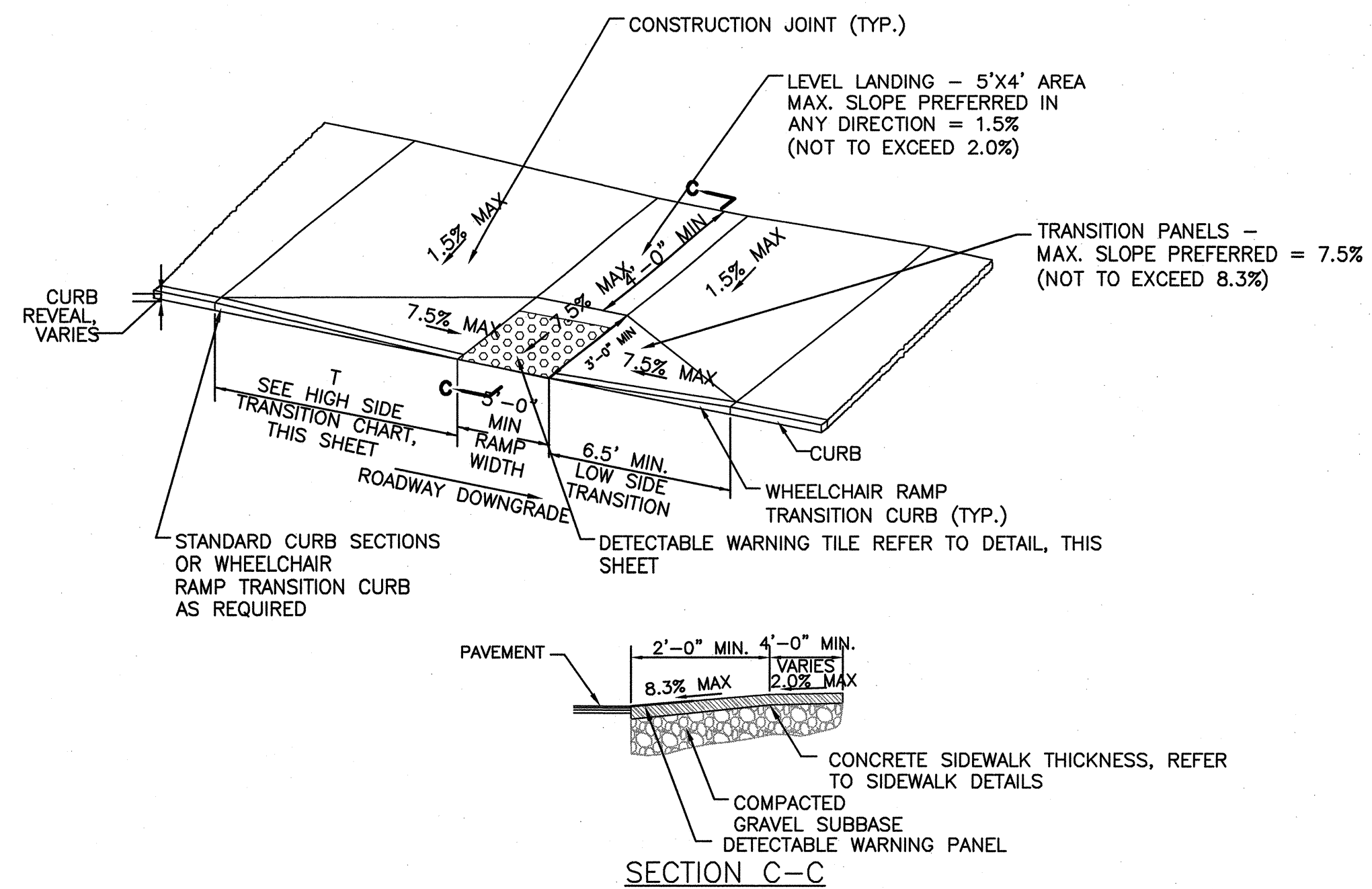
- NOTES:**
1. CLEAN ALL COLD PLANED SURFACES BEFORE APPLYING JOINT ADHESIVE AND FINAL PAVEMENT

FULL DEPTH PAVEMENT JOINT DETAIL
N.T.S.



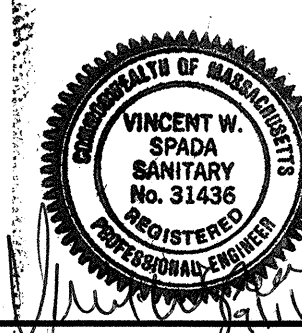
- NOTES:**
1. DETECTABLE WARNING SURFACES SHALL BE CAST-IRON.
 2. DETECTABLE WARNING PANELS SHALL EXTEND A MIN. OF 2' IN RAMP.

DETECTABLE WARNING TILE DETAIL
N.T.S.

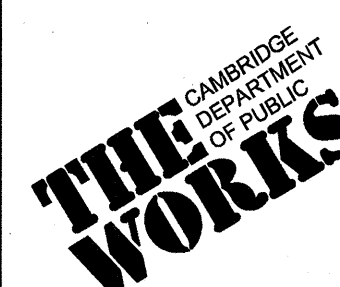


WHEELCHAIR RAMP DETAIL
N.T.S.

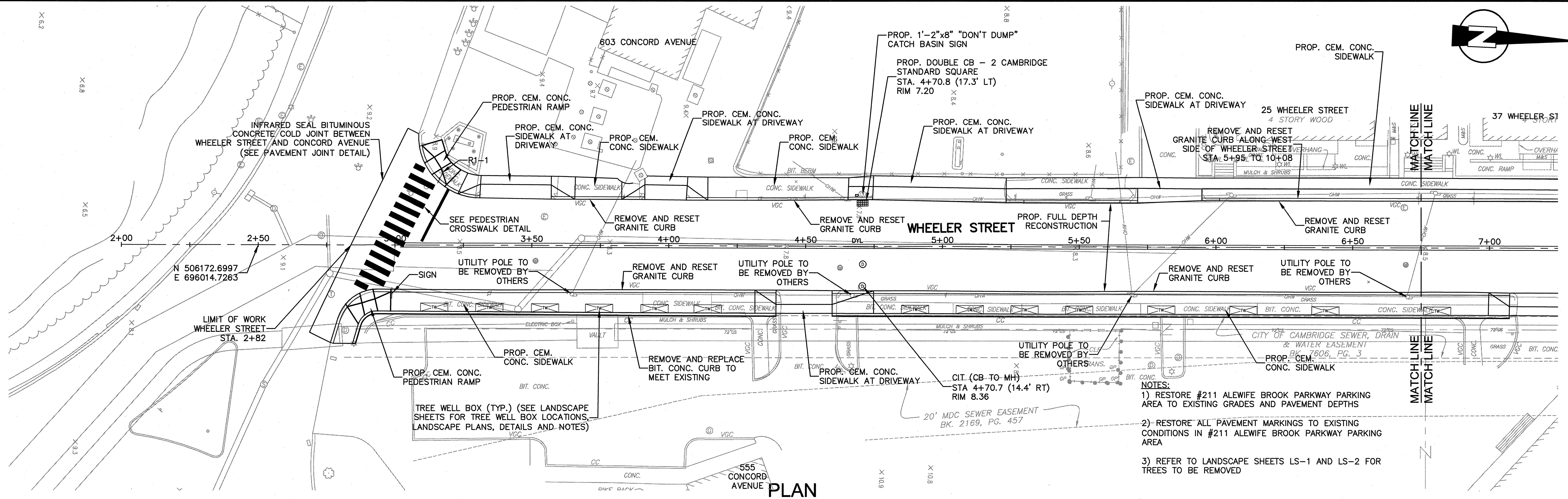
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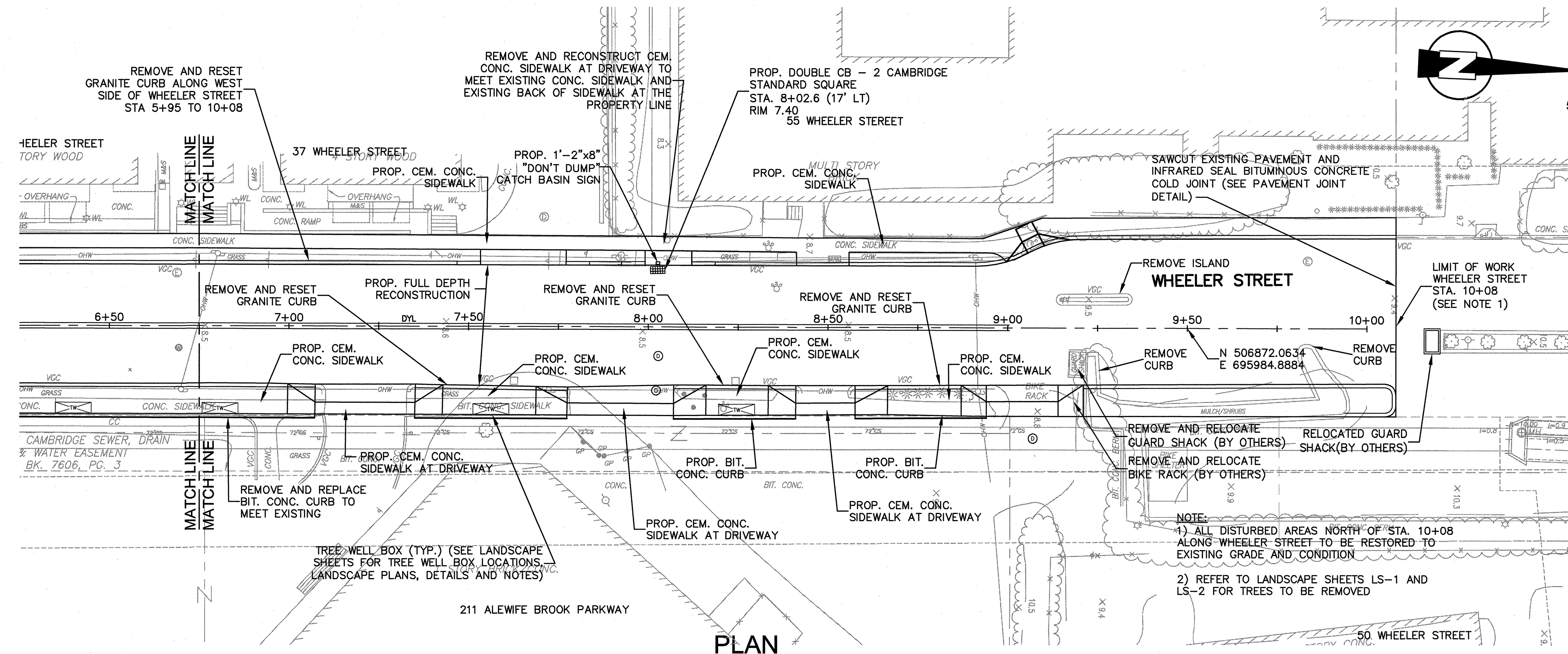
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| Date | SEPTEMBER 1, 2010 | | | |
| Job No. | 1998400.12 | | | |
| Designed by | SFJ | | | |
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| Checked by | SFJ | No. | Description | Date |
| Approved by | VWS | | REVISIONS | |



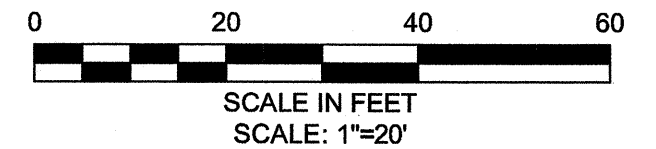
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| CITY OF CAMBRIDGE, MASSACHUSETTS | Sheet No. |
| CAMBRIDGE PARK DRIVE AREA DRAINAGE IMPROVEMENTS | RG-4 |
| CONTRACT NO. 12 | File No. |
| ROADWAY RESTORATION DETAILS | |



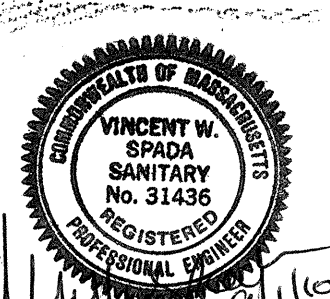
PLAN
SCALE: 1"=20'



PLAN
SCALE: 1"=20'



CONFORMED SET

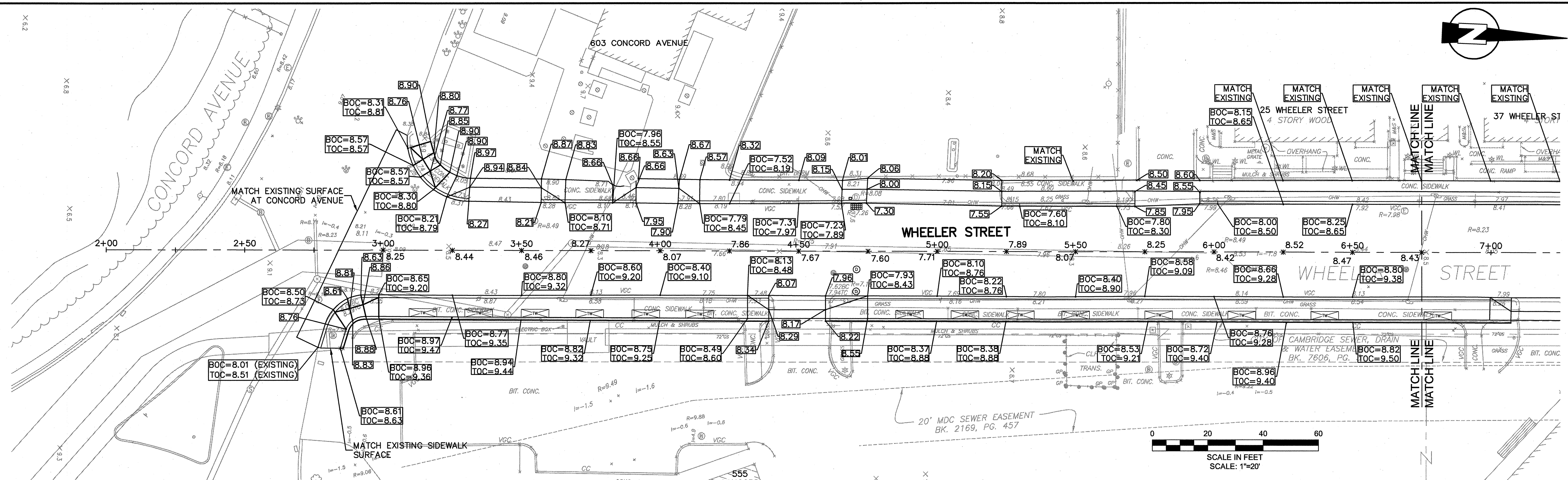


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| Scale | AS NOTED | | | |
| Date | SEPTEMBER 1, 2010 | | | |
| Job No. | 1998400.12 | | | |
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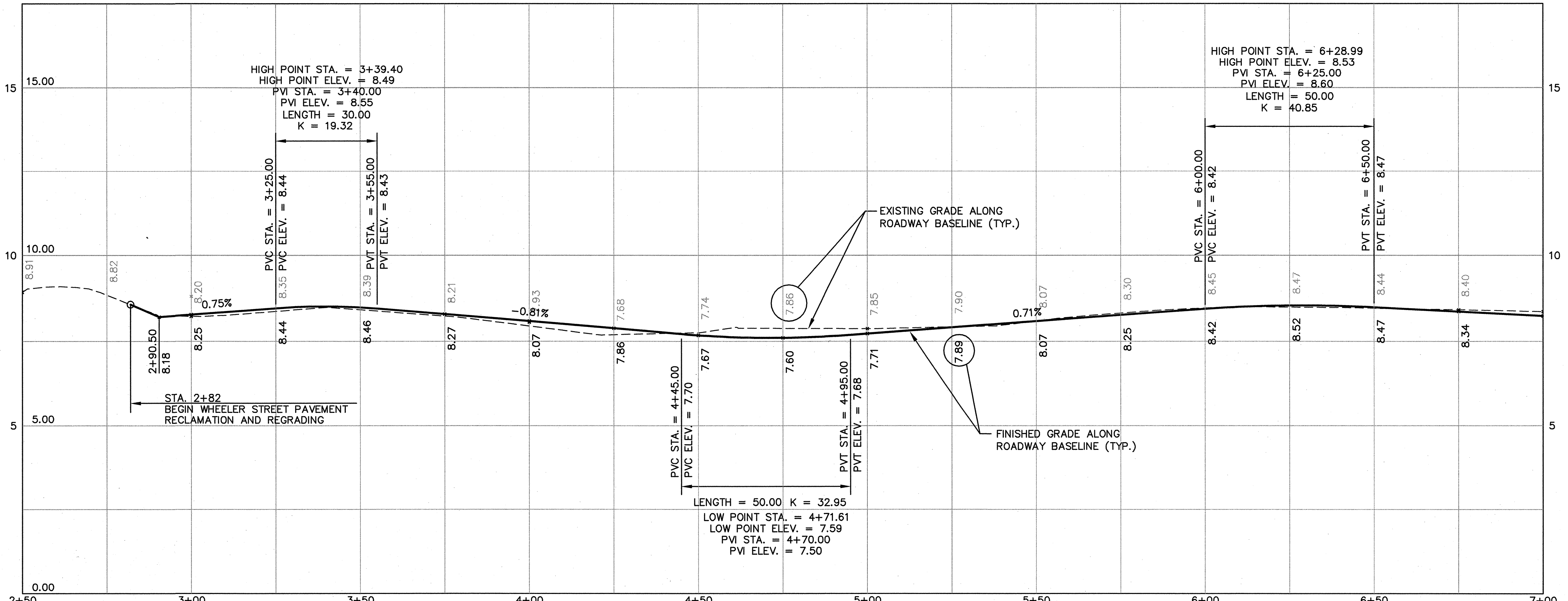


CITY OF CAMBRIDGE, MASSACHUSETTS
CAMBRIDGEPARK DRIVE AREA DRAINAGE IMPROVEMENTS
CONTRACT NO. 12
WHEELER STREET ROADWAY RESTORATION
CONSTRUCTION PLAN

Sheet No. **R-1**
File No.



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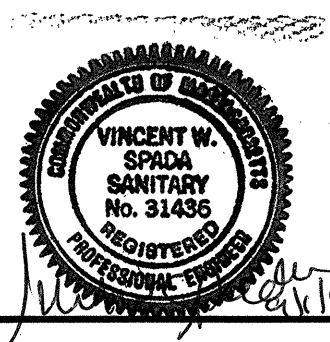
PROFILE
HORZ. SCALE: 1"=20'
VERT. SCALE: 1"=2'

CONFORMED SET

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SEA CONSULTANTS INC.
Scientists/Engineers/Architects

MWH

Bioengineering GROUP
18 Commercial Street
Salem, MA 01970
T: 978.740.0096
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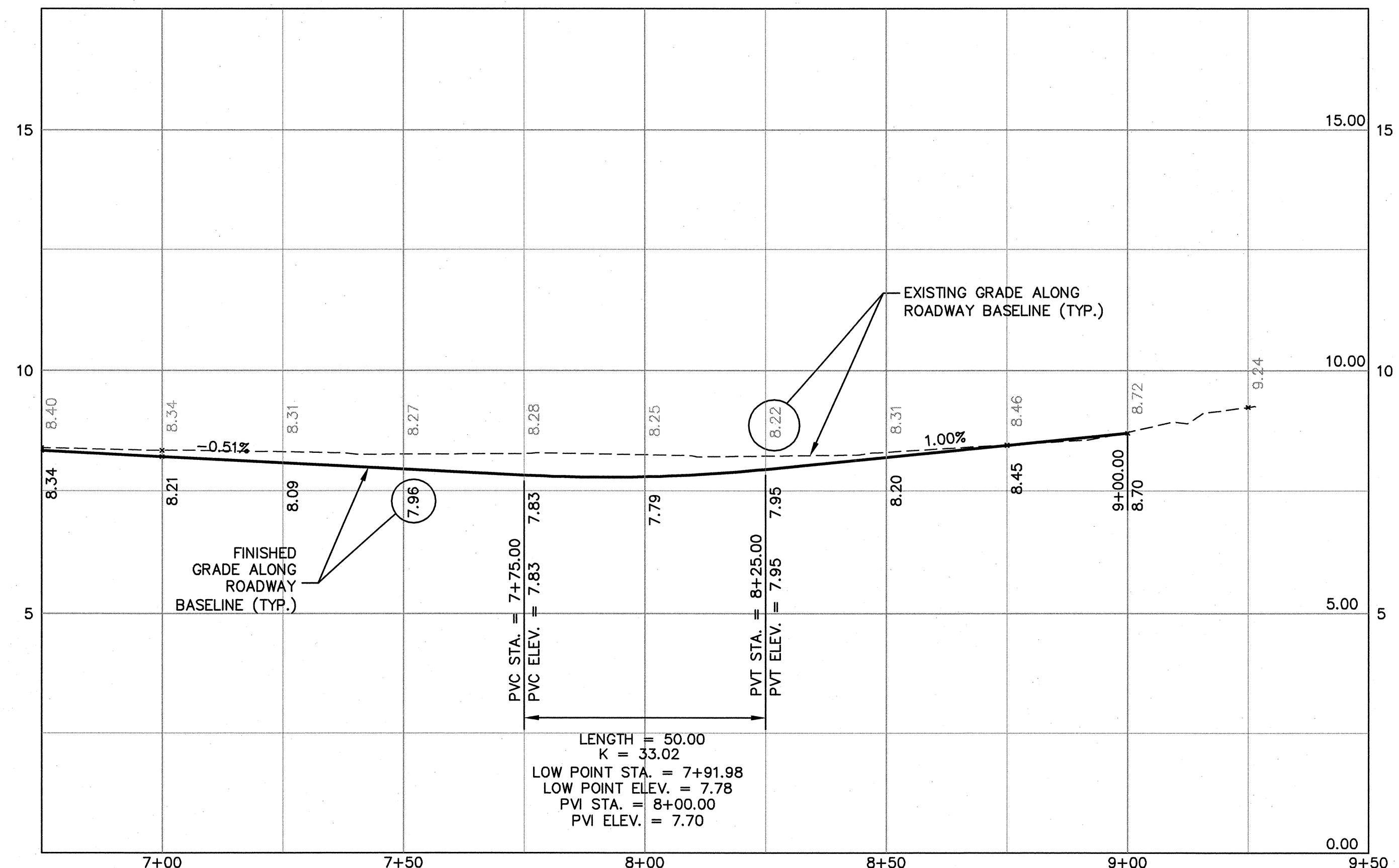
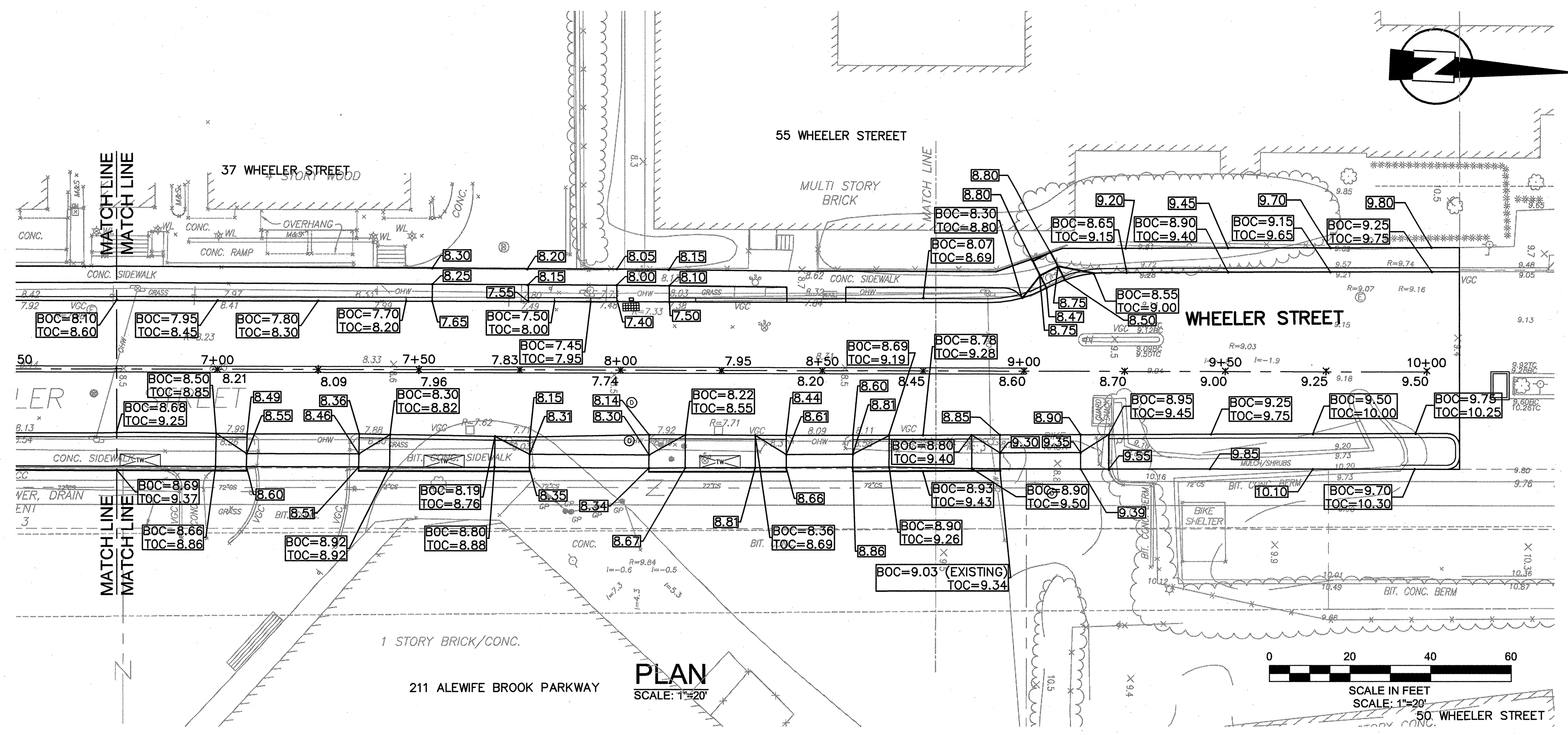


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| Scale | AS NOTED | |
| Date | SEPTEMBER 1, 2010 | |
| Job No. | 1998400.12 | |
| Designed by | SFJ | |
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| No. | Description | Date |
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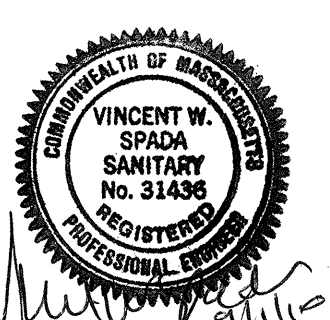
CITY OF CAMBRIDGE, MASSACHUSETTS
CAMBRIDGEPARK DRIVE AREA DRAINAGE IMPROVEMENTS
CONTRACT NO. 12
WHEELER STREET ROADWAY RESTORATION
GRADING AND PROFILE STA 2+00 TO 6+50

Sheet No. **R-2**
File No.



PROFILE
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 VERT. SCALE: 1"=2'

CONFORMED SET

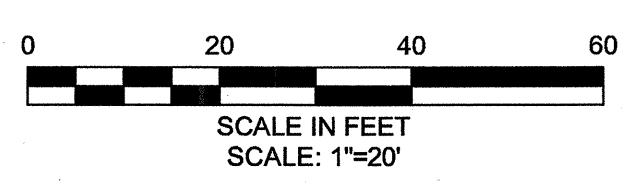
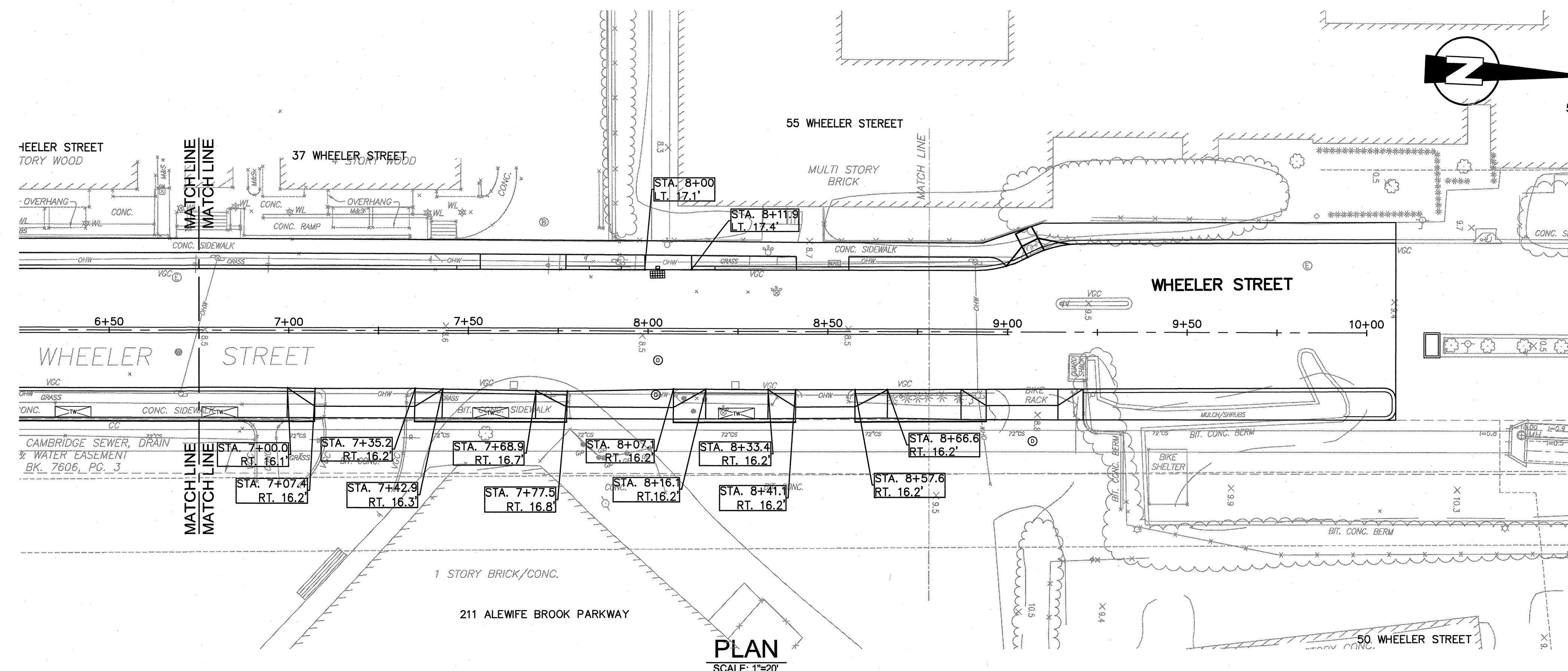
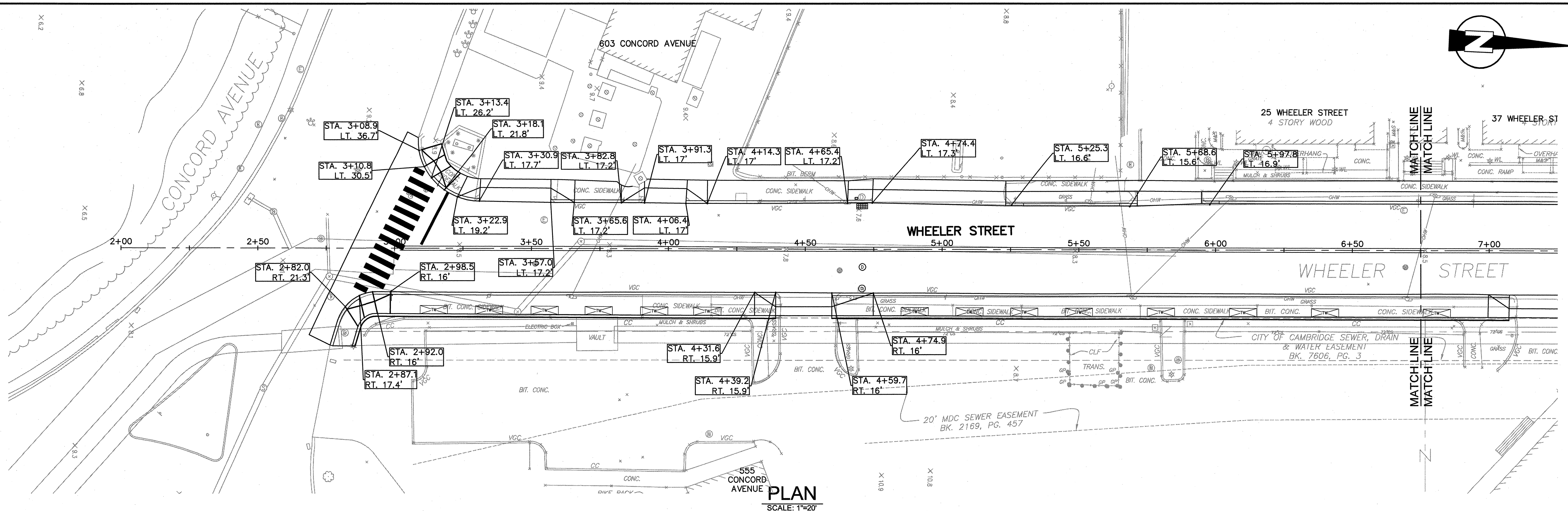


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| Job No. | 1998400.12 | | |
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| CITY OF CAMBRIDGE, MASSACHUSETTS |
| CAMBRIDGEPARK DRIVE AREA DRAINAGE IMPROVEMENTS |
| CONTRACT NO. 12 |
| WHEELER STREET ROADWAY RESTORATION |
| GRADING AND PROFILE STA 6+50 TO 9+00 |

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| Sheet No. | R-3 |
| File No. | |



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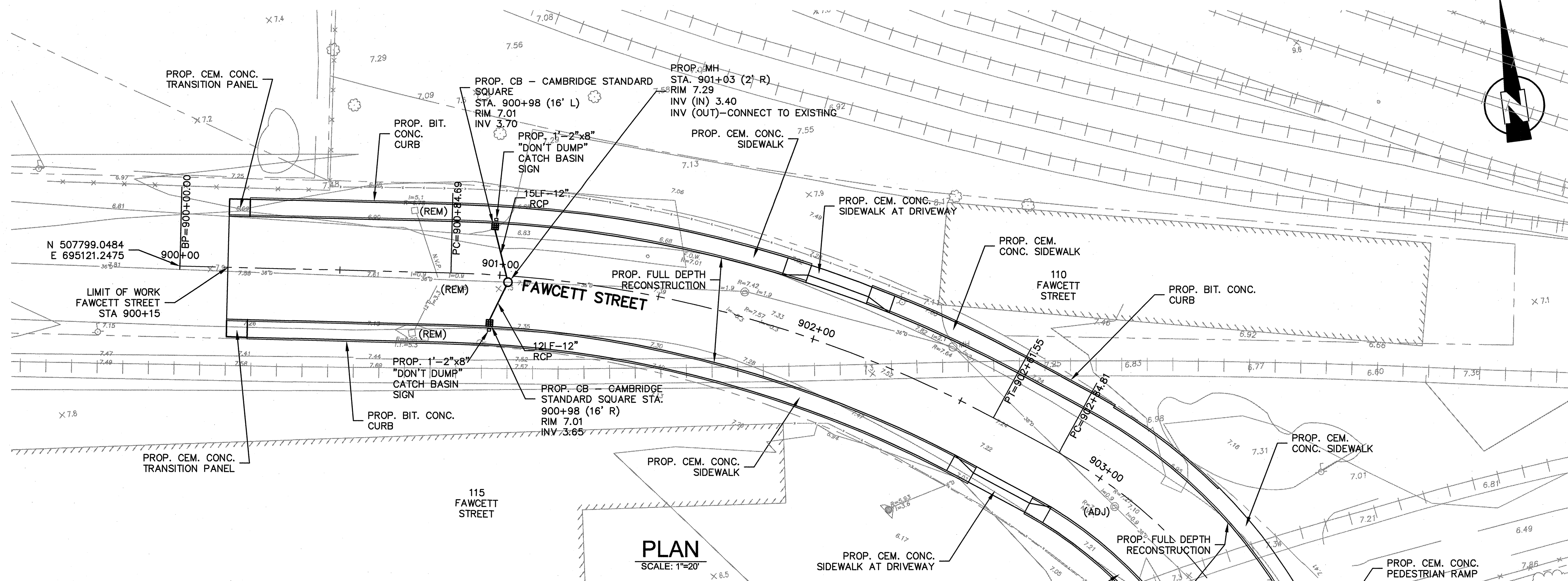
VINCENT W. SPADA
SANITARY No. 31485
REGISTERED PROFESSIONAL ENGINEER

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| Scale | AS NOTED | | |
| Date | SEPTEMBER 1, 2010 | | |
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| Designed by | SFJ | | |
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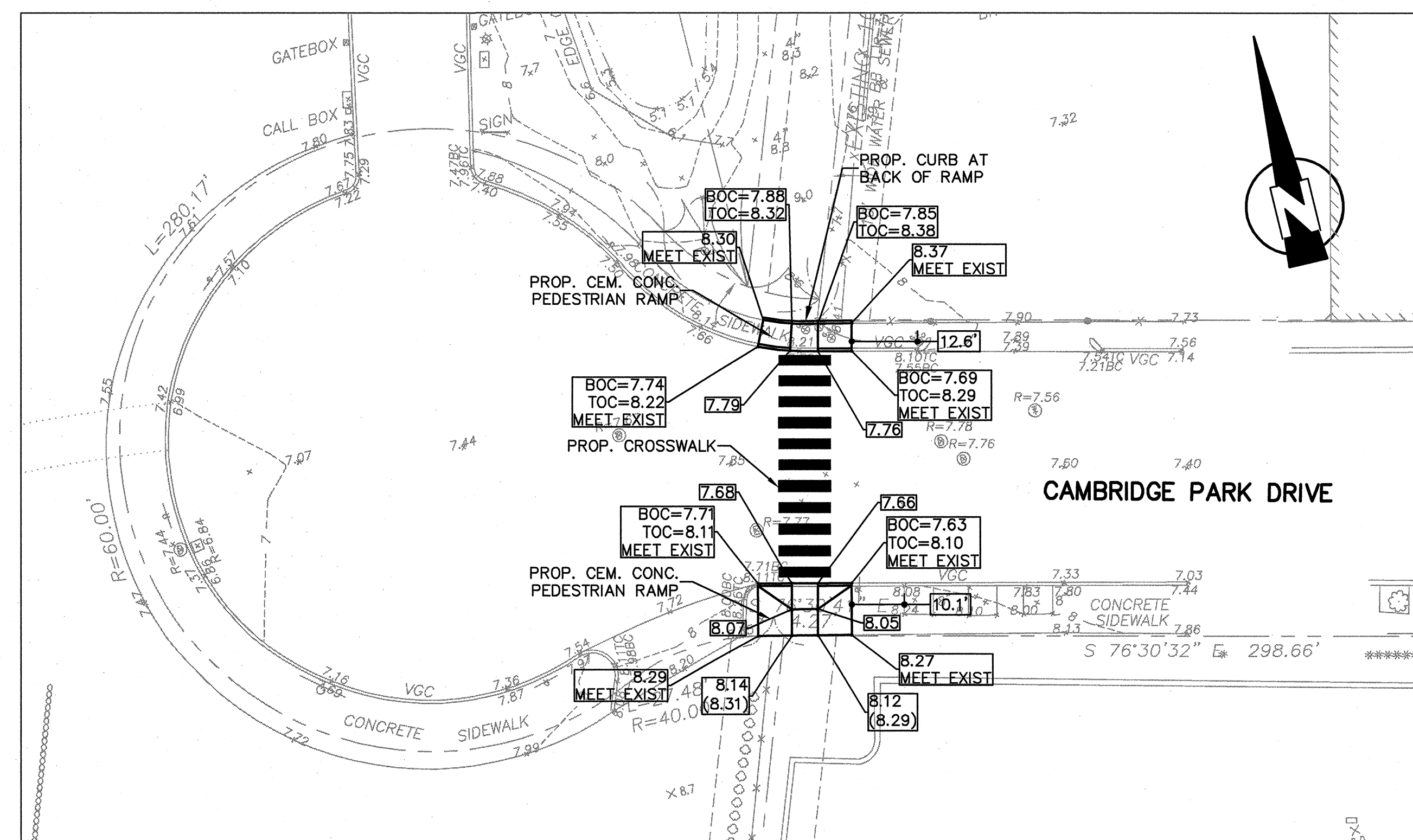
THE WORKS
CAMBRIDGE DEPARTMENT OF PUBLIC WORKS

CITY OF CAMBRIDGE, MASSACHUSETTS
CAMBRIDGE PARK DRIVE AREA DRAINAGE IMPROVEMENTS
CONTRACT NO. 12
WHEELER STREET ROADWAY RESTORATION
CURBING PLAN

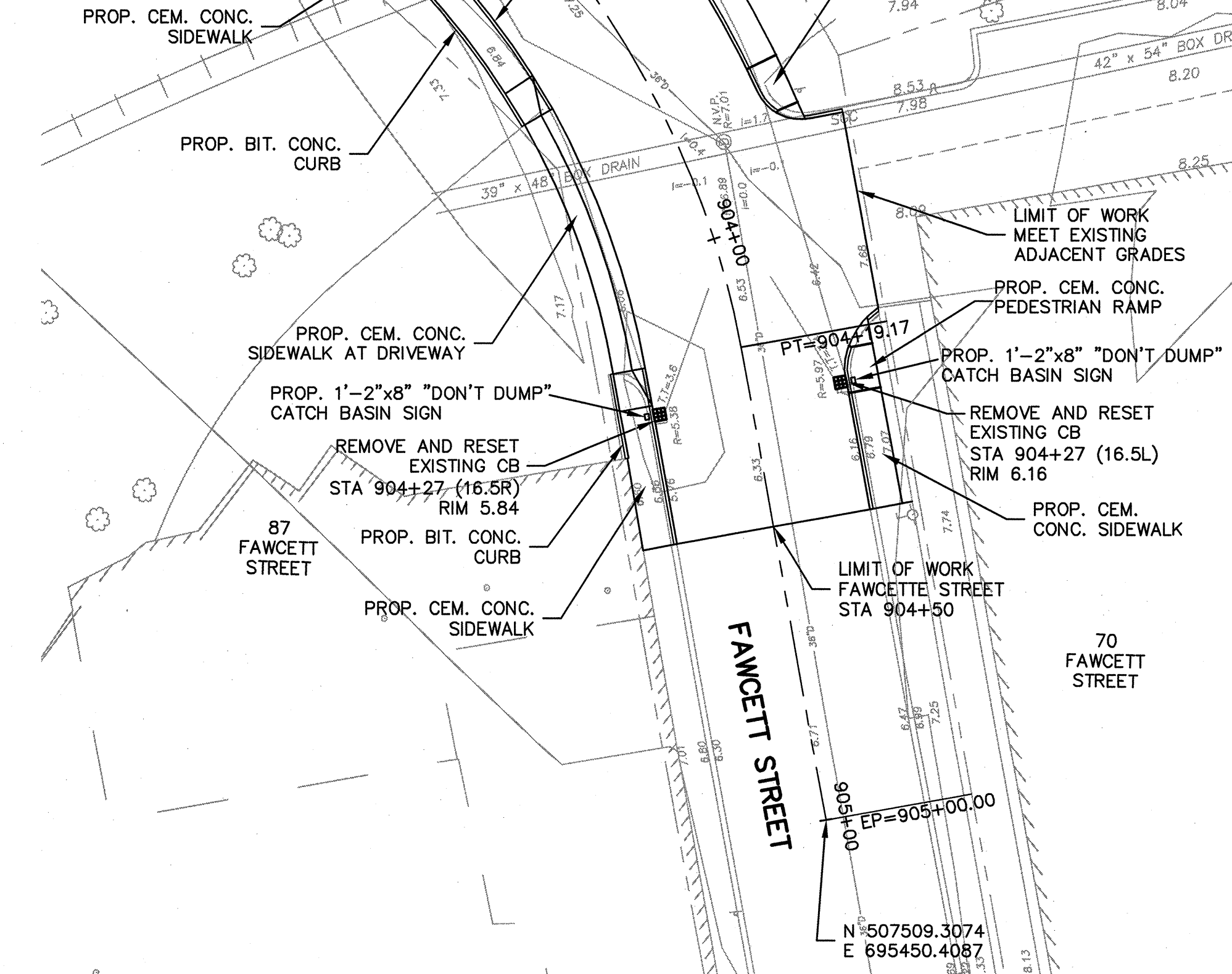
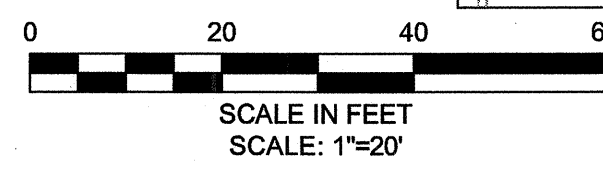
Sheet No. **R-4**
File No.



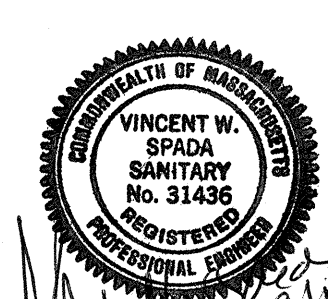
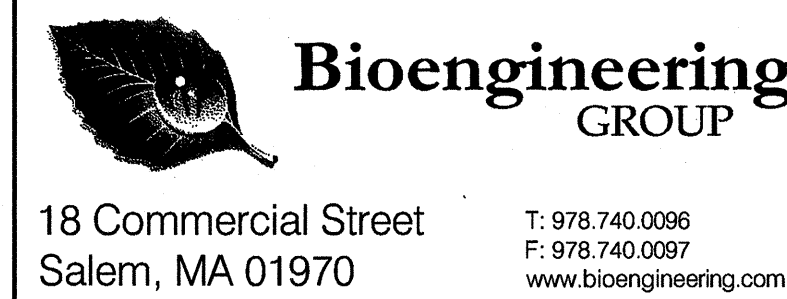
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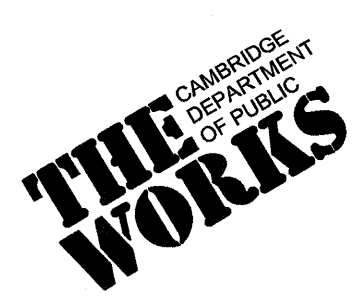
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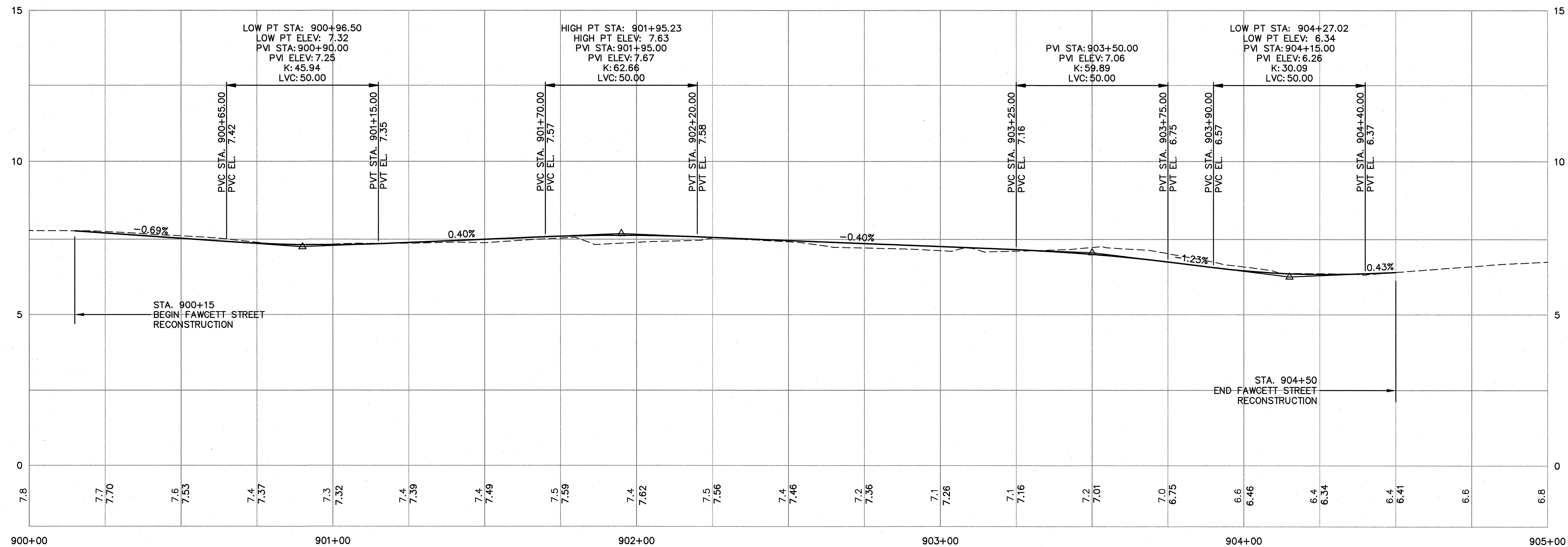


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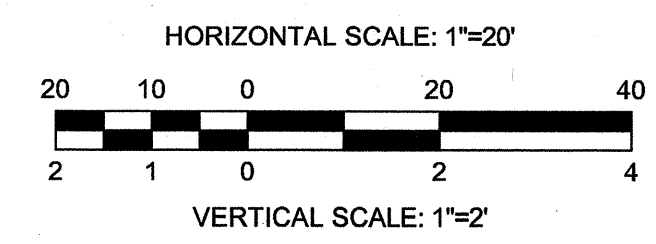


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| CITY OF CAMBRIDGE, MASSACHUSETTS |
| CAMBRIDGE PARK DRIVE AREA DRAINAGE IMPROVEMENTS |
| CONTRACT NO. 12 |
| FAWCETT STREET ROADWAY RESTORATION |
| CONSTRUCTION PLAN |

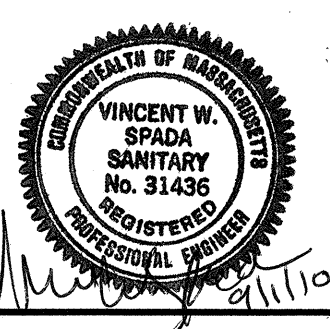
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| Sheet No. | R-5 |
| File No. | |



PROFILE
 HORZ. SCALE: 1"=20'
 VERT. SCALE: 1"=2'



CONFORMED SET



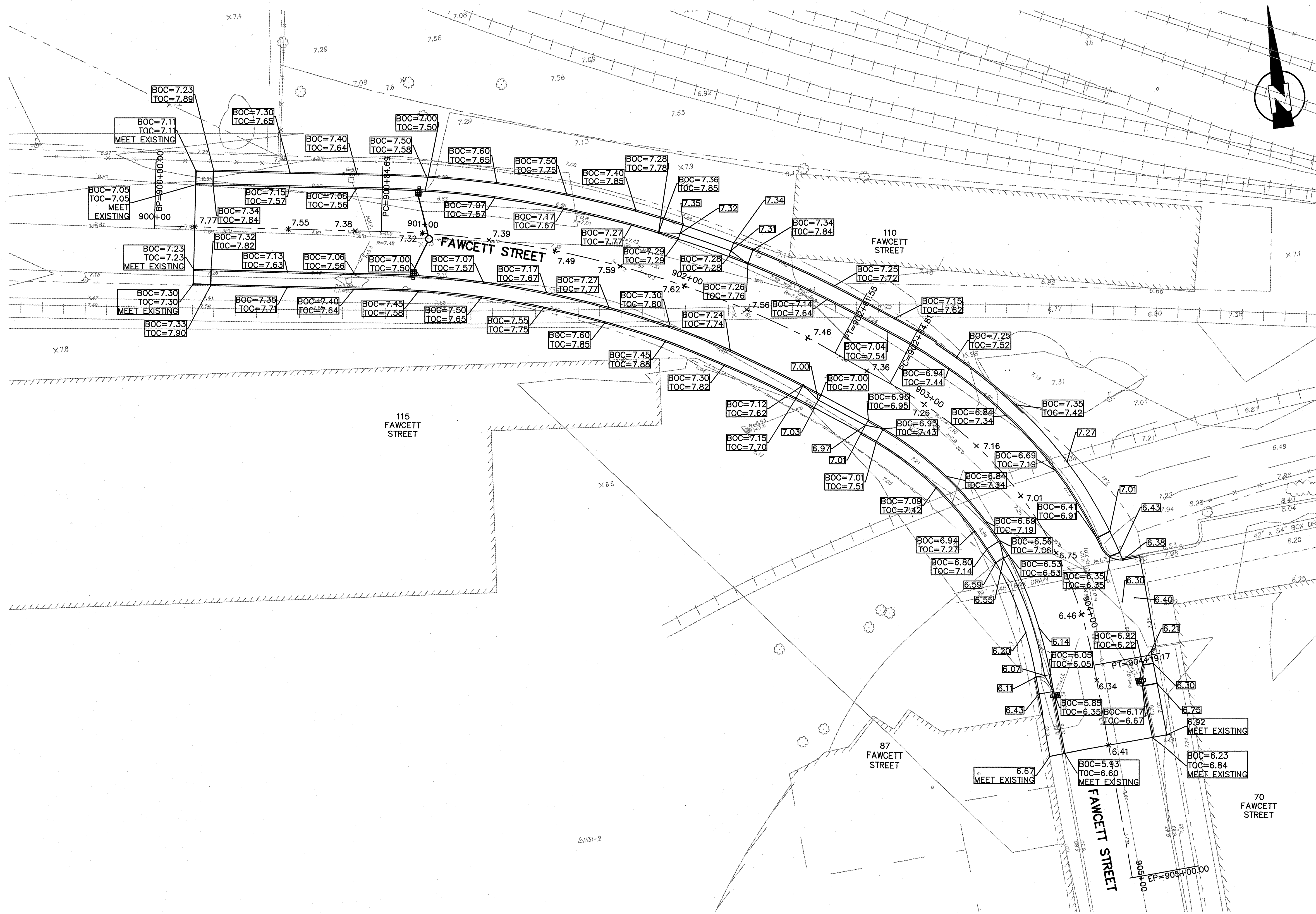
| | |
|-------------|-------------------|
| Scale | AS NOTED |
| Date | SEPTEMBER 1, 2010 |
| Job No. | 1998400.12 |
| Designed by | SFJ |
| Drawn by | SFJ |
| Checked by | SFJ |
| Approved by | VWS |

| No. | Description | Date |
|-----------|-------------|------|
| REVISIONS | | |

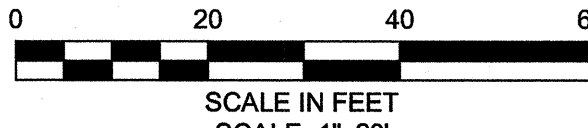


CITY OF CAMBRIDGE, MASSACHUSETTS
 CAMBRIDGEPARK DRIVE AREA DRAINAGE IMPROVEMENTS
 CONTRACT NO. 12
 FAWCETT STREET ROADWAY RESTORATION
 CENTERLINE PROFILE

Sheet No. R-6
 File No.



PLAN
SCALE: 1"=20'



CONFORMED SET

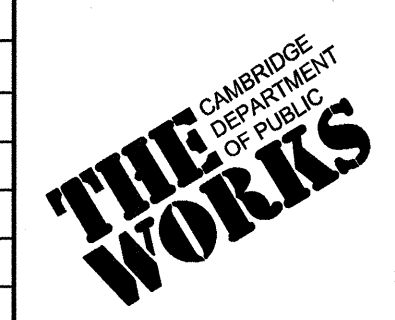
SEA
SEA CONSULTANTS INC.
Scientists/Engineers/Architects

MWH

Bioengineering GROUP
18 Commercial Street
Salem, MA 01970
T: 978.740.0096
F: 978.740.0097
www.bioengineering.com

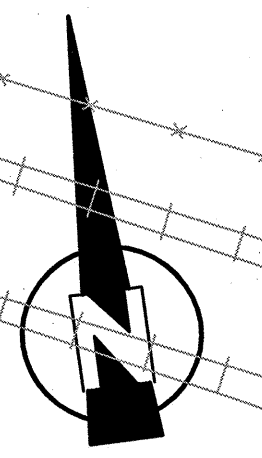
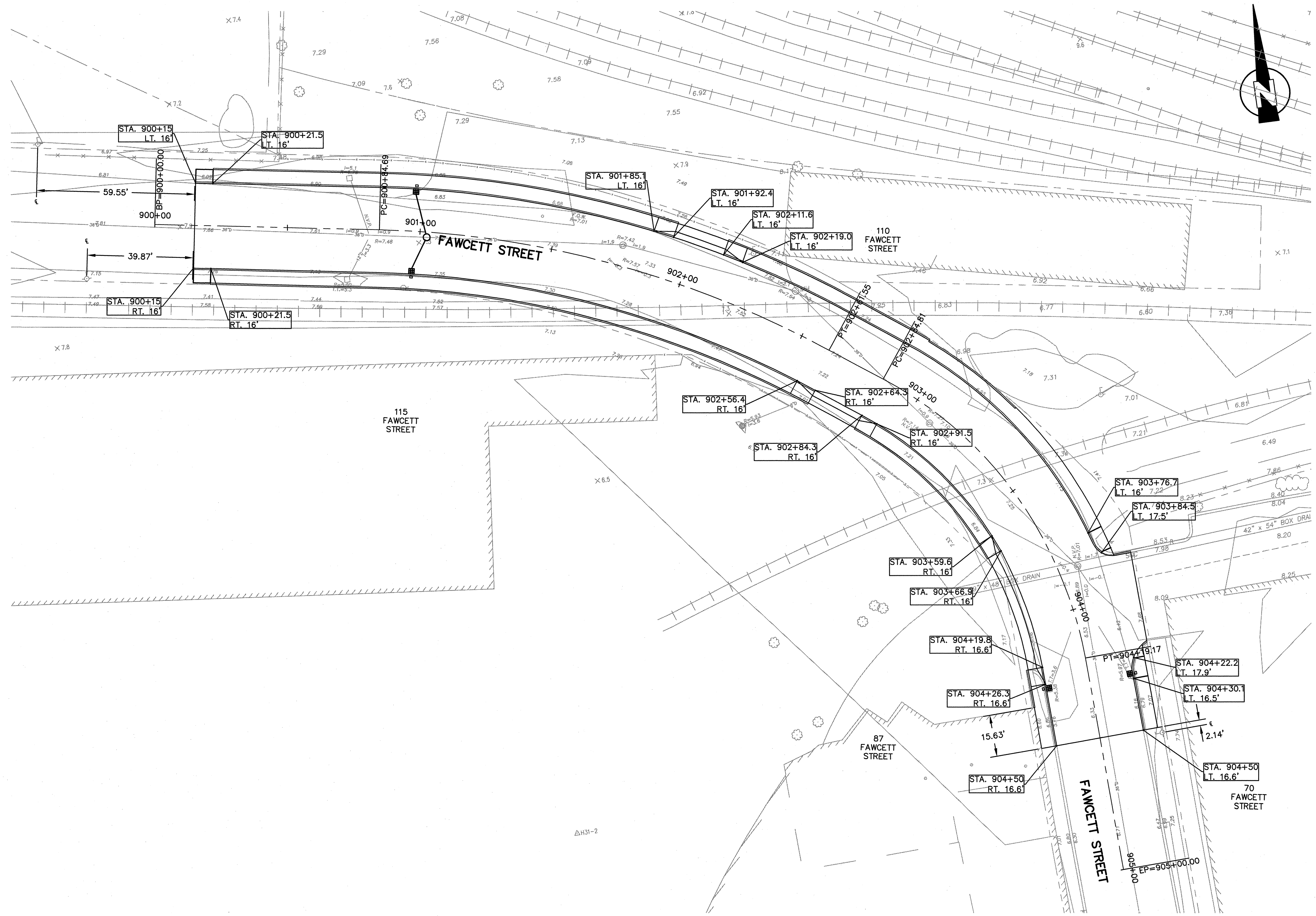
VINCENT W. SPADA
SANITARY
No. 31436
REGISTERED PROFESSIONAL ENGINEER

| | | | | |
|-------------|-------------------|-----|-------------|------|
| Scale | AS NOTED | | | |
| Date | SEPTEMBER 1, 2010 | | | |
| Job No. | 1998400.12 | | | |
| Designed by | SFJ | | | |
| Drawn by | SFJ | | | |
| Checked by | SFJ | No. | Description | Date |
| Approved by | vws | | REVISIONS | |

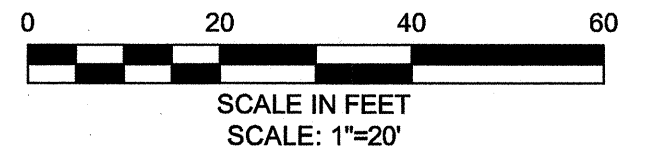


CITY OF CAMBRIDGE, MASSACHUSETTS
CAMBRIDGEPARK DRIVE AREA DRAINAGE IMPROVEMENTS
CONTRACT NO. 12
FAWCETT STREET ROADWAY RESTORATION
GRADING PLAN

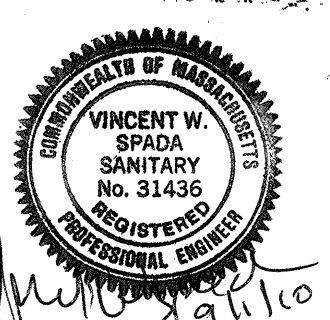
Sheet No. R-7
File No.



PLAN
SCALE: 1"=20'



CONFORMED SET



| | | | |
|-------------|-------------------|-----|-------------|
| Scale | AS NOTED | | |
| Date | SEPTEMBER 1, 2010 | | |
| Job No. | 1998400.12 | | |
| Designed by | SFJ | | |
| Drawn by | SFJ | | |
| Checked by | SFJ | No. | Description |
| Approved by | VWS | | REVISIONS |



CITY OF CAMBRIDGE, MASSACHUSETTS
CAMBRIDGEPARK DRIVE AREA DRAINAGE IMPROVEMENTS
CONTRACT NO. 12
FAWCETT STREET ROADWAY RESTORATION
CURBING PLAN

Sheet No.
R-8
File No.