

95% DETAILS NOT FOR CONSTRUCTION



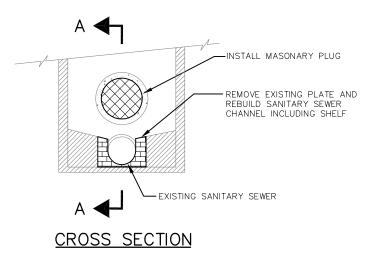
COMMON MANHOLE SEPARATION - TYPE 2 COMMON MANHOLE CONVERTED TO DRAIN MANHOLE DETAIL

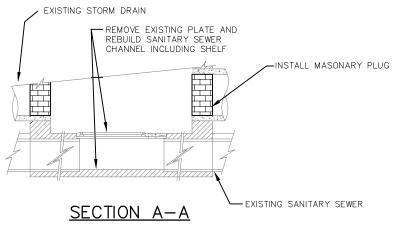
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02252





95% DETAILS NOT FOR CONSTRUCTION



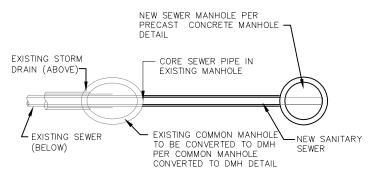
COMMON MANHOLE SEPARATION - TYPE 5 COMMON MANHOLE CONVERTED TO SEWER MANHOLE DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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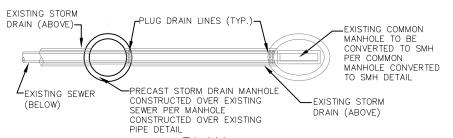


PLAN END OF LINE COMMON MANHOLE TO BE CONVERTED TO DMH DETAIL

NOTES

1. UNLESS OTHERWISE NOTED, PROPOSED PIPE TO MATCH INSIDE DIAMETER OF EXISTING PIPE

2. UNLESS OTHERWISE NOTED, PROPOSED SEWER SHALL BE PVC AND PROPOSED DRAIN SHALL BE RCP



PLAN END OF LINE COMMON MANHOLE TO BE CONVERTED TO SMH DETAIL

NOTES:

1. LOCATE ALL EXISTING STORM DRAIN CONNECTIONS WITHIN THE PORTION OF EXISTING STORM DRAIN THAT IS TO BE ABANDONED AND RECONNECT THOSE CONNECTIONS TO THE STORM DRAIN.

- 2. ANY PORTION OF THE EXISTING STORM DRAIN THAT IS TO BE ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE CONCRETE FILL AND PLUGGED.
- 3. VERIFY ALL DRAIN CONNECTIONS TO THE PROPOSED ABANDONED SECTION OF DRAIN, IF ANY LIVE CONNECTIONS EXIST, COORDINATE WITH THE ENGINEER TO PROVIDE RECONNECTION. IF SERVICE IS NOT LIVE, THE CONNECTION AT THE STORM DRAIN SHALL BE PLUGGED

95% DETAILS NOT FOR CONSTRUCTION



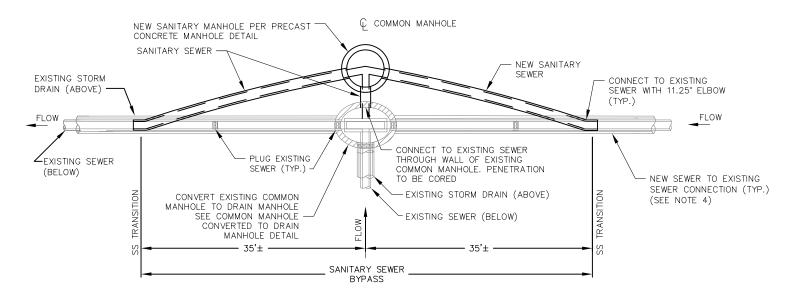
COMMON MANHOLE SEPARATION - TYPE 1 END OF LINE CONVERSIONS

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

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SPEC. SECTION REF#: 02252



- 1. LOCATE ALL EXISTING SEWER CONNECTIONS WITHIN THE PORTION OF EXISTING SEWER THAT IS TO BE ABANDONED AND RECONNECT THOSE CONNECTIONS TO THE SEWER
- 2. ANY PORTION OF THE EXISTING SEWER THAT IS TO BE ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE CONCRETE FILL AND PLUGGED.
- 3. VERIFY ALL SEWER CONNECTIONS TO THE PROPOSED ABANDONED SECTION OF SEWER, IF ANY LIVE CONNECTIONS EXIST, COORDINATE WITH THE ENGINEER TO PROVIDE RECONNECTION. IF SERVICE IS NOT LIVE, THE CONNECTION AT THE SEWER SHALL BE PLUGGED.
- 4. SEE THE APPROPRIATE SPECIFICATION OR STANDARD FOR THE PROPOSED SEWER MATERIAL FOR PIPE TO PIPE CONNECTION REQUIREMENTS.

95% DETAILS NOT FOR CONSTRUCTION



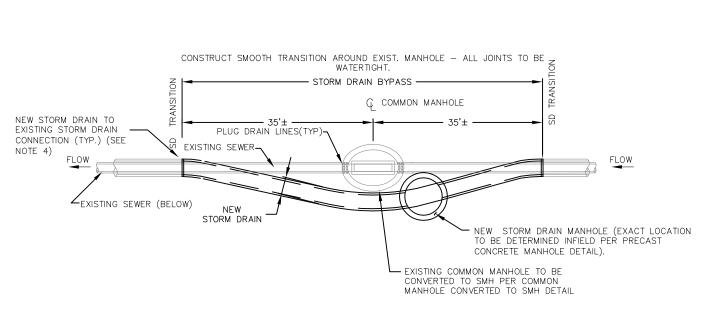
COMMON MANHOLE SEPARATION - TYPE 4 SANITARY SEWER BYPASS (WITH LATERAL)

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

OF ISSUE: 02/05

SPEC. SECTION REF#: 02252



- 1. LOCATE ALL EXISTING STORM DRAIN CONNECTIONS WITHIN THE PORTION OF EXISTING STORM DRAIN THAT IS TO BE ABANDONED AND RECONNECT THOSE CONNECTIONS TO THE STORM DRAIN.
- 2. ANY PORTION OF THE EXISTING STORM DRAIN THAT IS TO BE ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE CONCRETE FILL AND PLUGGED.
- 3. VERIFY ALL DRAIN CONNECTIONS TO THE PROPOSED ABANDONED SECTION OF DRAIN, IF ANY LIVE CONNECTIONS EXIST, COORDINATE WITH THE ENGINEER TO PROVIDE RECONNECTION. IF SERVICE IS NOT LIVE, THE CONNECTION AT THE STORM DRAIN SHALL BE PLUGGED.
- 4. SEE THE APPROPRIATE SPECIFICATION OR STANDARD FOR THE PROPOSED STORM DRAIN MATERIAL FOR PIPE TO PIPE CONNECTION REQUIREMENTS.

95% DETAILS NOT FOR CONSTRUCTION



COMMON MANHOLE SEPARATION - TYPE 3 STORM DRAIN BYPASS

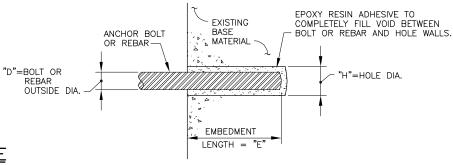
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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	BOLT OR REBAR OUTSIDE DIAMETER "D" (INCHES)	REQUIRED EMBEDMENT LENGTH "E" (INCHES)	REQUIRED HOLE DIAMETER "H" (INCHES)	REQUIRED ALLOWABLE ADHESIVE BOND STRENGTH IN 4,000 psi CONCRETE USING S.F. = 4.0
ANCHOR BOLTS	3/8	3 3/8	7/16	2,270
	1/2	4 1/2	9/16	4,360
	5/8	5 5/8	3/4	7,545
	3/4	6 3/4	7/8	9,735
	7/8	7 7/8	1	10,595
	1	9	1 1/8	14,890
	1 1/4	11 1/4	1 3/8	22,940
	1 1/2	13 1/2	1 5/8	32,360
REBAR	#3 BAR	4 1/2	1/2	3,970
	#4 BAR	6	5/8	6,590
	#5 BAR	7 1/2	3/4	9,825
	#6 BAR	9	7/8	13,735
	#7 BAR	10 1/2	1	18,210
	#8 BAR	12	1 1/8	23,465
	#9 BAR	13 1/2	1 3/8	32,015



TYPICAL EPOXY DOWELLING DETAIL & SCHEDULE

NOTES:

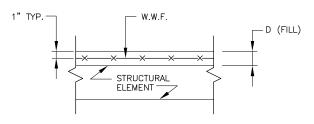
- DRILL HOLES, CLEAN OUT AND INSTALL EPOXY AND BOLT OR REBAR IN STRICT CONFORMANCE WITH EPOXY MANUFACTURER'S WRITTEN RECOMMENDATIONS. REFER TO CAST IN PLACE CONCRETE FOR EPOXY REQUIREMENTS.
- 2. UNLESS OTHERWISE INDICATED ON DRAWINGS, PROVIDE THE EMBEDMENT LENGTH AND HOLE DIAMETER INDICATED IN THE SCHEDULE ABOVE, FOR THE BOLT OR REBAR SIZE PROVIDED.
- REQUIRED EPOXY BOND STRENGTHS ARE BASED ON A SAFETY FACTOR (S.F.) OF 4.0.
- 4. PROVIDE STAINLESS STEEL SCREEN RODS IN HOLES IN HOLLOW BASE MATERIALS (MASONRY CAVITY WALLS).
- UNLESS OTHERWISE INDICATED ALL ANCHOR BOLTS SHALL BE OF GALVANIZED A36 THREADED ROD STOCK. WHERE STAINLESS STEEL ANCHORS ARE REQUIRED THEY SHALL BE AISI TYPE 316 (ASTM A193).



EPOXY DOWELL DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE O2/05 SPEC. SECTION REF#: 03300 3300.2



NOTE:

1. PROVIDE W.W.F. IN CONCRETE FILL, SIZE
AS TABULATED, UNLESS OTHERWISE NOTED.

D	W.W.F.
2" TO 4"	6×6 - W 1.4 × W 1.4
5" TO 8"	6x6 - W 2.0 x W 2.0
9" PLUS	6x6 - W 2.9 x W 2.9



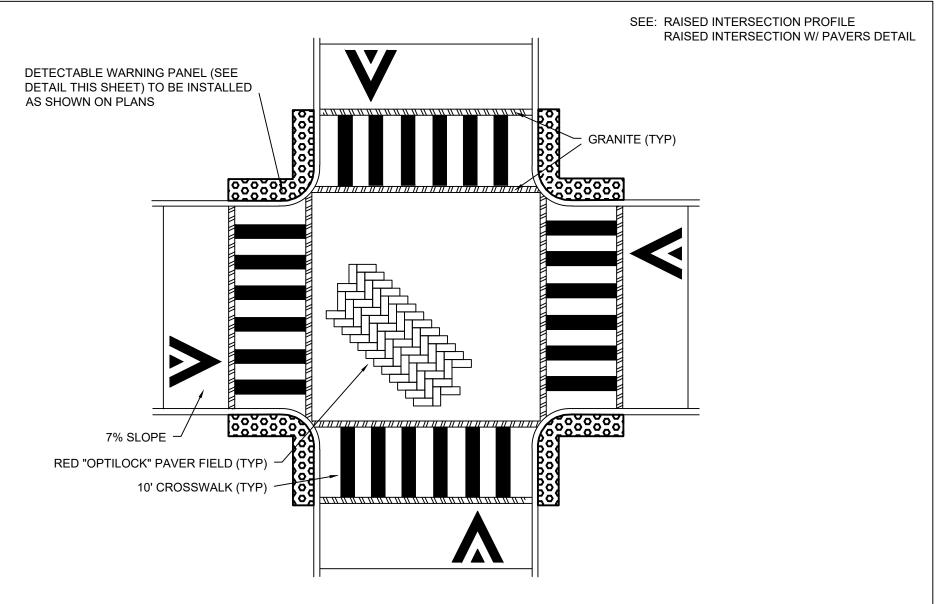
TYPICAL WELDED WIRE FABRIC FOR CONCRETE FILL DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 03300



4-WAY RAISED INTERSECTION PLAN SCALE: N.T.S. CITY OF CAMBRIDGE STANDARD DETAILS 1/20



4-WAY RAISED INTERSECTION PLAN

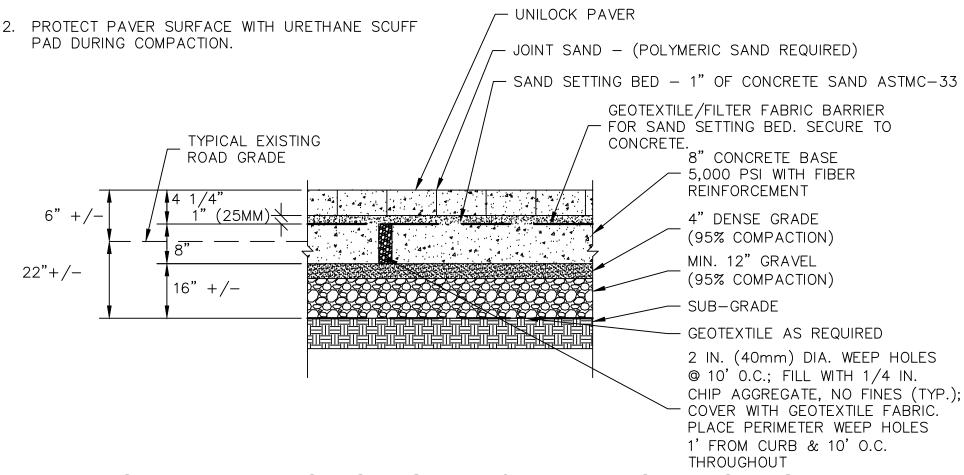
CITY OF CAMBRIDGE STANDARD DETAILS

SCALE: N.T.S.

DATE 1/20 OF ISSUE:

NOTES: SEE SPECIFICATIONS FOR ADDITIONAL RAISED INTERSECTION CONSTRUCTION RE UIREMENTS SEE RAISED INTERSECTION W/ PAVERS DETAIL - BUS ROUTES **VERTICAL GRANITE** 12" CONCRETE (TYP.) -FLUSH CURB " 1 " DRAIN 2 IN. (40 | |) DIA. WEEP HOLES VERTICAL GRANITE -☐' ASPHALT ☐ — □" ASPHALT □1 ½" LIFTS 1" CONCRETE SAND -10' 0.C. ☐ FILL WITH 1/4 IN. FLUSH CURB " 1 " 1 ½" LIFTS 1 TOP□ 1 TOP DENSE ASTM C-□□ CHIP AGGREGATE ☐ NO FINES (TYP.) ☐ ☐ DENSE BINDER COVER WITH GEOTE TILE FABRIC. □□% COMPACTION COMPACTION (TYP.) PLACE PERIMETER WEEP HOLES (TYP.) 1' FROM CURB □ 10' O.C. GEOTE TILE 12" CONCRETE (TYP.) **THROUGHOUT** (PLACED ON TOP 4" DENSE GRADE OF CONCRETE) 4" DENSE GRADE (□□% (□□% TYP. TYP. COMPACTION) COMPACTION) MIN. 12" GRAVEL (□□% MIN. 12" GRAVEL (□□% ¬ TYP. COMPACTION) TYP. COMPACTION) 7% SLOPE SEE 4 4 4 4 4 PAVEMENT TRANSITION **DETAIL** (TYP.) TYP. CONCRETE ☐ CONCRETE BASE ☐ 000 PSI 2'MIN FULL DEPTH 2' MIN FULL DEPTH WITH FIBER REINFORCEMENT ☐' CRUSHED STONE (TYP.) **FULL DEPTH** RAISED INTERSECTION PROFILE PAVERS W/ CONCRETE BASE - BUS ROUTE CITY OF CAMBRIDGE MASSACHUSETTS □ANUARY 202 CITY OF CAMBRIDGE STANDARD DETAILS KLEINFELDER $F \hspace{-.1cm} \square \hspace{-.1cm} \hspace{-.1cm} N \hspace{-.1cm} \square$ RAISED INTERSECTION - PROFILE $C \square \square \square d \square$ Dur **BUS ROUTE**

1. WEEP HOLES TO BE CONSTRUCTED WITH 2" PVC SLEEVE OR EQUIVALENT. CONTRACTOR TO PREVENT CEMENT CONCRETE FROM COVERING THE WEEP HOLES.



RAISED INTERSECTION W/ PAVERS-BUS ROUTE

SCALE: N.T.S.

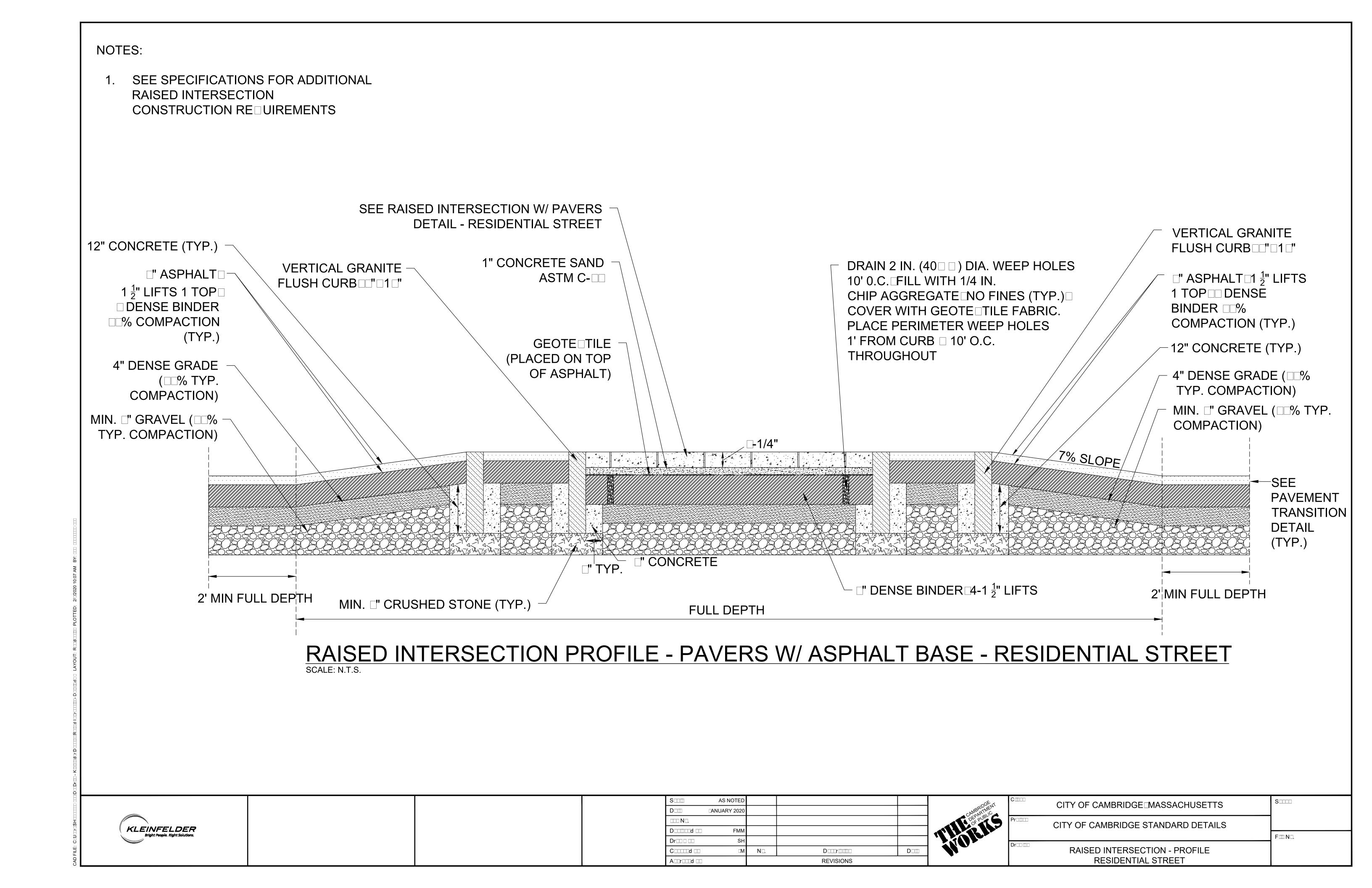


RAISED INTERSECTION W/ PAVERS DETAIL - BUS ROUTE

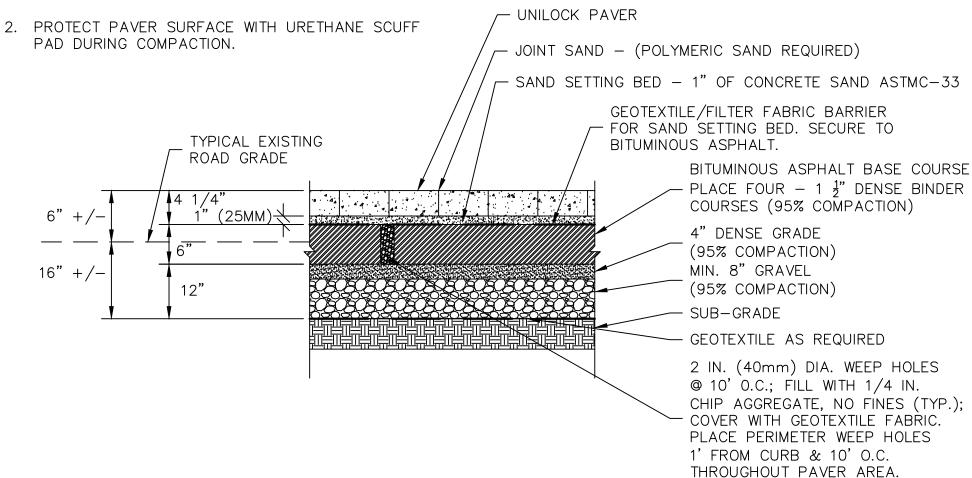
CITY OF CAMBRIDGE STANDARD DETAILS

SCALE: N.T.S.

DATE 12/19 OF ISSUE:



1. WEEP HOLES TO BE CONSTRUCTED WITH 2" PVC SLEEVE OR EQUIVALENT. CONTRACTOR TO PREVENT CEMENT CONCRETE FROM COVERING THE WEEP HOLES.



RAISED INTERSECTION W/ PAVERS-RESIDENTIAL STREET

SCALE: N.T.S.

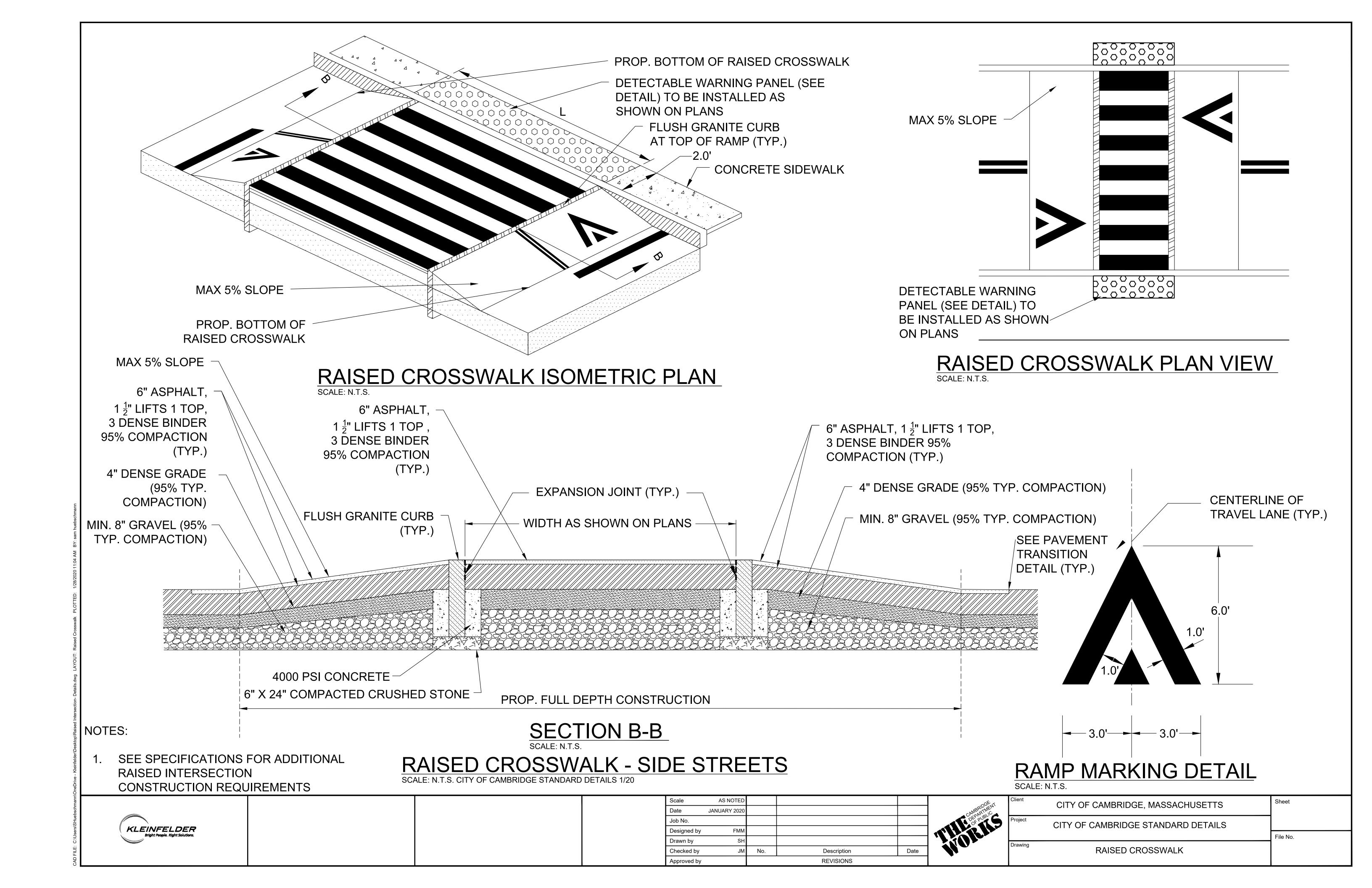


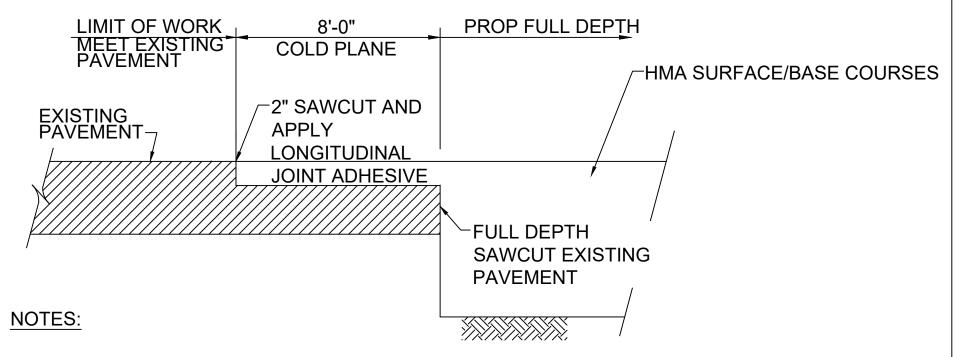
RAISED INTERSECTION W/ PAVERS DETAIL RESIDENTIAL STREET

CITY OF CAMBRIDGE STANDARD DETAILS

SCALE: N.T.S.

DATE 1/20 OF ISSUE:





- 1. CLEAN ALL COLD PLANED SURFACES BEFORE APPLYING JOINT ADHESIVE, TACK COAT AND FINAL PAVEMENT.
- 2. APPLY TACK COAT TO COLD PLANED SURFACES PRIOR TO BEING OVERLAID AT THE RATE OF 0.10 GALLONS PER SQUARE YARD.
- 3. TEMPORARY PAVEMENT SHALL BE PLACED ALONG ANY LIP CREATED BY PAVEMENT REMOVAL. TEMPORARY PAVEMENT SHALL BE PLACED AT A SLOPE OF LESS THAN 1V:3H.

PAVEMENT TRANSITION

SCALE: N.T.S.

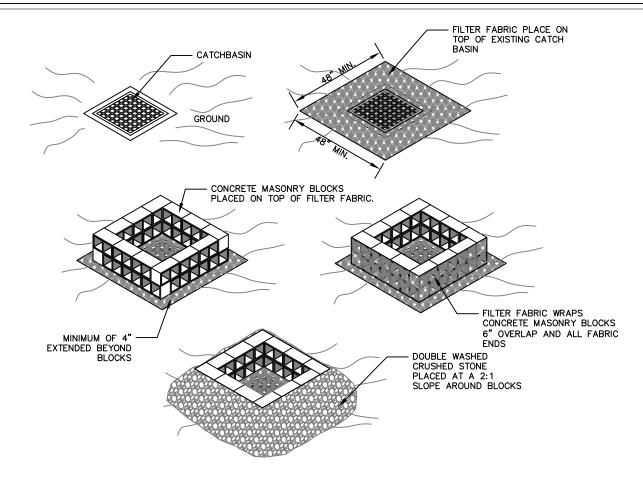


PAVEMENT TRANSITION

CITY OF CAMBRIDGE STANDARD DETAILS

SCALE: N.T.S.

DATE 1/20 OF ISSUE:



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE ANTICIPATED AND OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING

INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT

MAINTENANCE SHALL OCCUR WHEN NECESSARY. FILTER FABRIC SHALL BE SWEPT CLEAN WHEN NEEDED AND GRAVEL SHALL BE REPLACED WHEN A NOTICEABLE AMOUNT OF FINES HAVE COLLECTED IN BETWEEN THE CRUSHED GRAVEL.

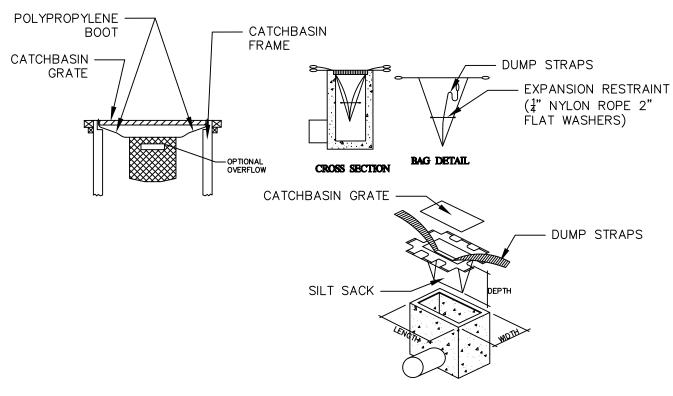
CATCH BASIN W/ BLOCK AND GRAVEL INLET PROTECTION



INLET PROTECTION 1

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE 07/09 OF ISSUE:



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS SHEET, OVERLAND AND CONCENTRATED FLOWS (NOT GREATER THAN 1 CFS). THE METHOD CAN DRAIN FLAT AREA TO STEEP SLOPES. INLET CAPACITY WILL DECREASE WITH THIS METHOD AND CONTRACTOR SHALL EXPECT FLOODING TO OCCUR DURING HIGH FLOW EVENTS.

INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT

MAINTENANCE SHALL OCCUR WHEN NECESSARY. SILT SACKS SHALL BE CLEANED ONCE THE BAG IS FILLED HALF WAY WITH DEBRIS. CONTRACTOR SHALL REMOVE SILT SACK AND PLACE NEW UNIT. DO NOT EMPTY SILT SACK CONTENTS INTO THE CATCHBASIN.

CATCH BASIN W/ SILT SACK INLET PROTECTION

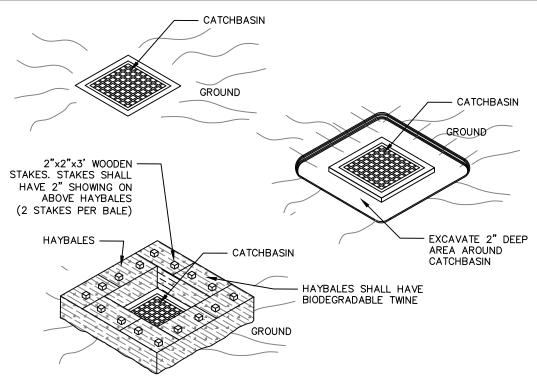


INLET PROTECTION 2

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE 07/09 OF ISSUE:



INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%). WHERE THE INLET ACCEPTS SHEET OR OVERLAND FLOWS (NOT GREATER THAN 1 CFS). THIS METHOD SHOULD NOT APPLY TO AN INLET ACCEPTING CONCENTRATED FLOW.

HAYBALES SHOULD BE MADE FROM REGIONALLY FARMED HAY TO REDUCE THE POSSIBILITY OF INVASIVE SPECIES. WHEN POSSIBLE STRAW BALES SHOULD BE USED.

HAYBALES SHOULD ONLY BE USED WHEN APPROVED BY THE CITY OF CAMBRIDGE. HAYBALES ARE ALLOWS FOR PROJECTS THAT HAVE A DURATION OF LESS THAN THREE MONTHS.

MAINTENANCE SHALL OCCUR WHEN NECESSARY. HAYBALES ARE HIGHLY IMPERVIOUS AND THE CONTRACTOR SHOULD EXPECT PONDING IN THE AREA. HAYBALES SHOULD BE REPLACED EVERY 1 TO 3 MONTHS DEPENDING ON CONDITIONS.

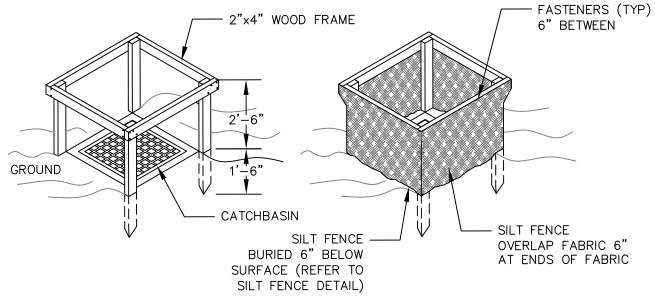
CATCH BASIN W/ HAYBALES INLET PROTECTION



INLET PROTECTION 3

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE 07/09 OF ISSUE:



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%). WHERE THE INLET ACCEPTS SHEET OR OVERLAND FLOW (NOT GREATER THAN 1 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS

INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT MAINTENANCE SHALL OCCUR WHEN NECESSARY. SILT FENCE SHALL BE REPLACE EVERY 6 MONTHS AND STACKS SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY.

CATCH BASIN W/ SILT FENCE INLET PROTECTION

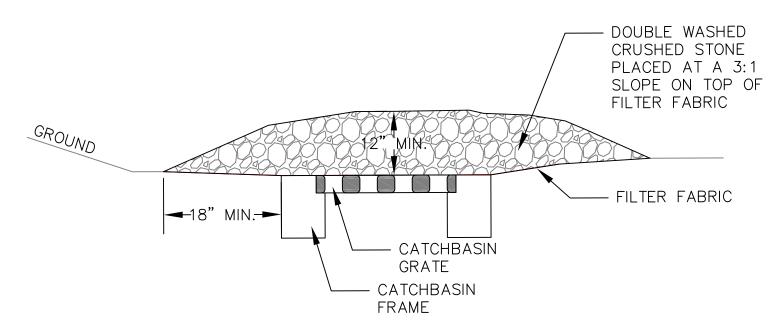


INLET PROTECTION 4

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE 07/09 OF ISSUE:



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE ANTICIPATED BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT

MAINTENANCE SHALL OCCUR WHEN NECESSARY. GRAVEL SHALL BE REPLACED WHEN A NOTICEABLE AMOUNT OF FINES HAVE COLLECTED IN BETWEEN THE CRUSHED GRAVEL. FILTER FABRIC SHALL BE REPLACED EVERY 6 MONTHS.

CATCH BASIN W/ GRAVEL INLET PROTECTION

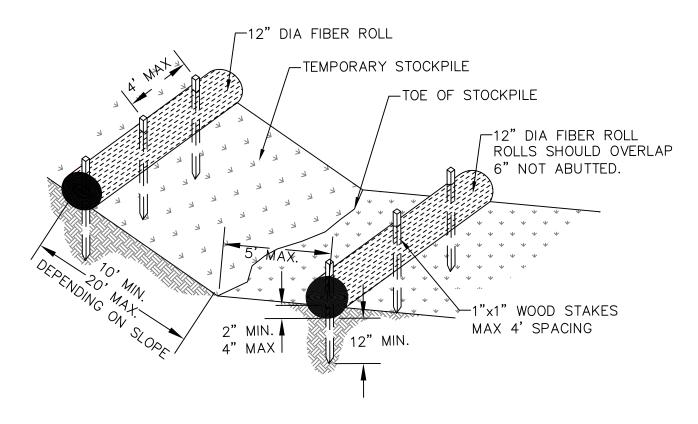


INLET PROTECTION 5

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE 07/09 OF ISSUE:



INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT

MAINTENANCE SHALL OCCUR WHEN NECESSARY. FIBER ROLLS SHALL BE REPLACE EVERY 6 MONTHS AND STACKS SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY. FIBER ROLLS SHALL BE INSPECTED WEEKLY AND ALL MAINTENANCE ISSUES SHALL BE CORRECT AT THAT TIME.

TEMPORARY STOCKPILES ARE STOCKPILES THAT WILL BE USED WITHIN 14 DAYS FOR BEING PLACED. IF A STOCKPILE IS BEING LEFT UNDISTURBED FOR LONGER THAT 14 DAYS THEN PERMANENT STABILIZATION WILL BE REQUIRED



FIBER ROLL STOCKPILE PROTECTION

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE 07/09 OF ISSUE:

EROSION AND SEDIMENT CONTROL NOTES

- PRIOR TO ANY LAND DISTURBANCE ACTIVITIES COMMENCING ON THE SITE, THE DEVELOPER SHALL PHYSICALLY MARK LIMITS OF NO LAND DISTURBANCE ON THE SITE WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE, SO THAT WORKERS CAN SEE THE AREAS TO BE PROTECTED. THE PHYSICAL MARKERS SHALL REMAIN IN PLACE UNTIL A CERTIFICATE OF COMPLETION HAS BEEN ISSUED.
- APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE.
 MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER
 SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA. WETLAND AREAS AND SURFACE WATERS SHALL
 BE PROTECTED FROM SEDIMENT.
- 3. MINIMIZE TOTAL AREA OF DISTURBANCE AND PROTECT NATURAL FEATURES AND SOIL.
- THE CONTRACTOR SHALL SEQUENCE ALL ACTIVITIES TO MINIMIZE SIMULTANEOUS AREAS OF DISTURBANCE. MASS CLEARINGS AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.
- 5. MINIMIZE SOIL EROSION AND CONTROL SEDIMENTATION DURING CONSTRUCTION.
- 6. DIVERT UNCONTAMINATED WATER AROUND DISTURBED AREAS.
- 7. INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICES OR THE 2008 EPA'S CONSTRUCTION GENERAL PERMIT.
- PROTECT AND MANAGE ON AND OFF-SITE MATERIAL STORAGE AREAS (OVERBURDEN AND STOCKPILES OF DIRT, BORROW AREAS, OR OTHER AREAS USED SOLELY BY THE PERMITTED PROJECT ARE CONSIDERED A PART OF THE PROJECT).
- COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS INCLUDING WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS, AND AIR QUALITY REQUIREMENTS, INCLUDING DUST CONTROL.
- 10. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES ¼ TO ½ THE HEIGHT OF THE EROSION CONTROL DEVICE. SEDIMENT SHALL BE REMOVED FROM SILT FENCE PRIOR TO REACHING THE LOAD-BEARING CAPACITY OF THE SILT FENCE WHICH MAY BE LOWER THAN ¼ TO ½ THE HEIGHT.
- 11. SEDIMENT FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS SHALL BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT.
- 12. BMPS TO BE USED FOR INFILTRATION AFTER CONSTRUCTION SHALL NOT BE USED AS BMPS DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE BOARD. MANY INFILTRATION TECHNOLOGIES ARE NOT DESIGNED TO HANDLE THE HIGH CONCENTRATIONS OF SEDIMENTS TYPICALLY FOUND IN CONSTRUCTION RUNOFF, AND THUS MUST BE PROTECTED FROM CONSTRUCTION RELATED SEDIMENT LOADINGS.
- 13. SOIL STOCKPILES MUST BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 2:1. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.
- 14. FOR ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS AND AREAS WITHIN 50 FEET OF A BUILDING UNDER CONSTRUCTION, A PERIMETER SEDIMENT CONTROL SYSTEM SHALL BE INSTALLED AND MAINTAINED TO CONTAIN SOIL.
- 15. A TRACKING PAD OR OTHER APPROVED STABILIZATION METHOD SHALL BE CONSTRUCTED AT ALL ENTRANCE/EXIST POINTS OF THE SITE TO REDUCE THE AMOUNT OF SOIL CARRIED ONTO ROADWAYS AND OFF THE SITE
- 16. ON THE CUT SIDE OF ROADS, DITCHES SHALL BE STABILIZED IMMEDIATELY WITH ROCK RIP—RAP OR OTHER NON-ERODIBLE LINERS, OR WHERE APPROPRIATE, VEGETATIVE MEASURES SUCH AS HYDROSEEDING OR JUTE MATTING.
- 17. PERMANENT SEEDING SHALL BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM AUGUST TO OCTOBER 15. DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER OCTOBER 15, WHEN SEEDING IS FOUND TO BE IMPRACTICAL, APPROPRIATE TEMPORARY STABILIZATION SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANS PROVIDE FOR ADEQUATE MULCHING AND WATERING.
- 18. ALL SLOPES STEEPER THAN 3:1 (H: V, 33.3%), AS WELL AS PERIMETER DIKES, SEDIMENT BASINS OR TRAPS, AND EMBANKMENTS MUST, UPON COMPLETION, BE IMMEDIATELY STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES. AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST NOT BE DISTURBED.
- 19. TEMPORARY SEDIMENT TRAPPING DEVICES MUST NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTORY DRAINAGE AREAS.
- 20. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS OF REMOVAL.
- 21. PROPERLY MANAGE ON-SITE CONSTRUCTION AND WASTE MATERIALS.
- 22. PREVENT OFF-SITE VEHICLE TRACKING OF SEDIMENTS.
- 23. DUST SHALL BE CONTROLLED AT THE SITE.
- 24. ALL PREVIOUSLY DISTURBED LAND SHALL BE STABILIZED BY APPROVED METHODS AFTER 14 DAYS IF LEFT UNDISTURBED. THIS INCLUDES STOCKPILES, CONSTRUCTION ENTRANCES, GRADED AREAS AND OTHER CONSTRUCTION ACTIVITY RELATED CLEARING.
- 25. IF WORK IS HALTED OVER WINTER MONTHS THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING THE AREA THROUGH GROUNDCOVER PRACTICES..

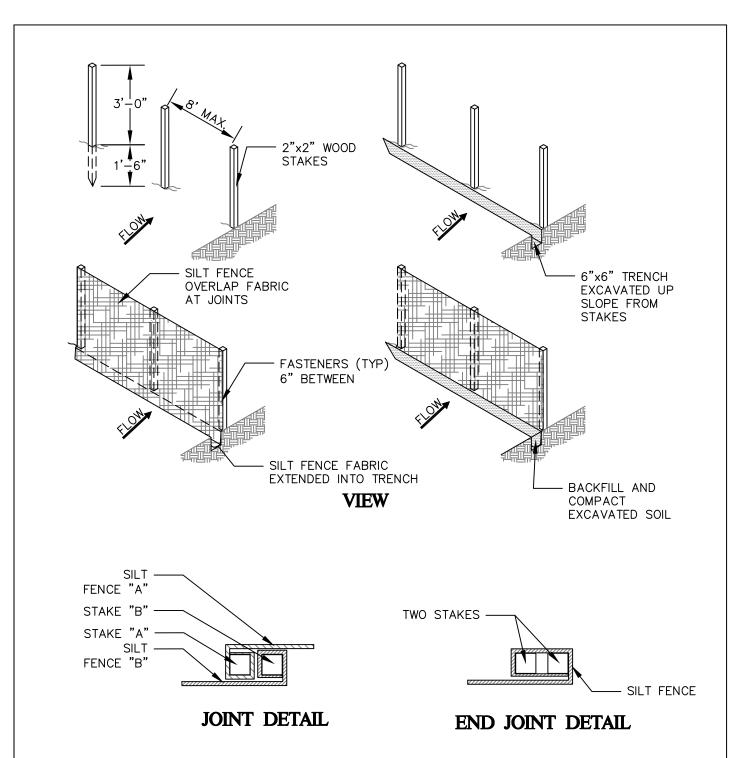


EROSION AND SEDIMENT CONTROL GENERAL NOTES

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N/A

DATE 07/09 OF ISSUE:



INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT

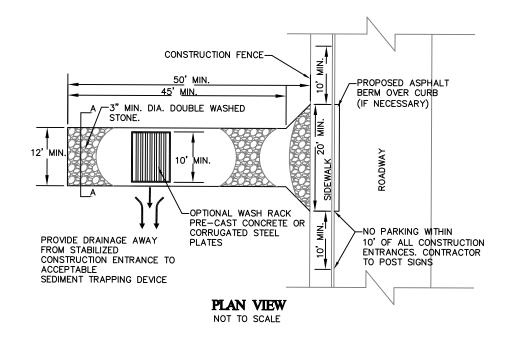
MAINTENANCE SHALL OCCUR WHEN NECESSARY. SILT FENCE SHALL BE REPLACE EVERY 6 MONTHS AND STACKS SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY. SILT FENCE SHALL BE INSPECTED WEEKLY AND ALL MAINTENANCE ISSUES SHALL BE CORRECT AT THAT TIME.



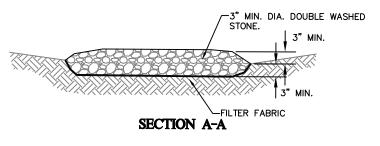
SILT FENCE

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE O7/09 SPEC. SECTION REF#:



CONTRACTOR TO PROVIDE A WATER SOURCE FOR A WASH STATION FOR ALL VEHICLES LEAVING THE SITE.



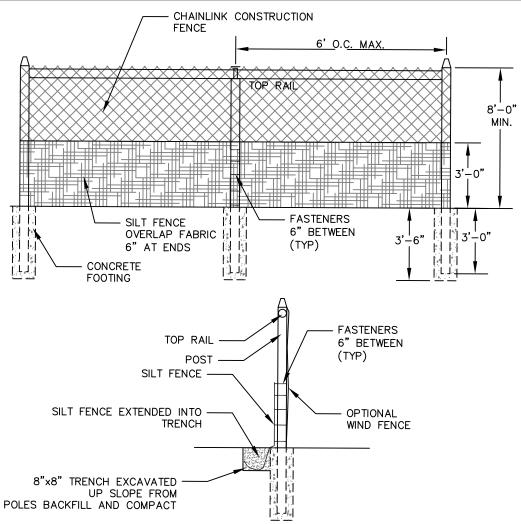


STABILIZED CONSTRUCTION ENTRANCE

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE 07/09 OF ISSUE:



INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT

MAINTENANCE SHALL OCCUR WHEN NECESSARY. SILT FENCE SHALL BE REPLACE EVERY 6 MONTHS AND POST SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY. SILT FENCE SHALL BE INSPECTED WEEKLY AND ALL MAINTENANCE ISSUES SHALL BE CORRECT AT THAT TIME.

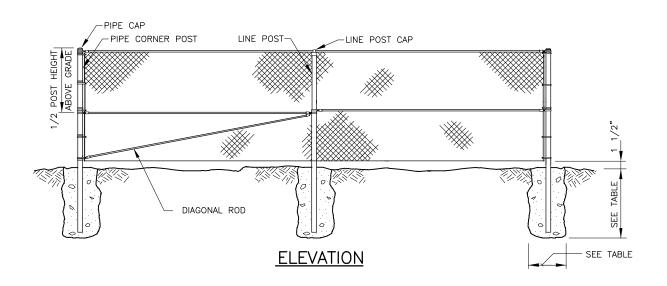


SUPER SILT FENCE

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE 07/09 OF ISSUE:



	POST SETTING	REQUIREMENT	
TYPE OF POST	HOLE DIA. AT TOP*	HOLE DEPTH	POST EMBEDMENT
LINE	9"	38"	36"
TERMINAL	12"	38"	36"

*MIN. HOLE DIAMETER IN SOFT OR LOOSE SOIL SHALL BE 18"

- 1. POST SPACING: LINE POSTS SHALL BE EVENLY SPACED, CENTER TO CENTER.
- 2. BARBED WIRE ARM WHERE REQUIRED SHALL BE PER CHAIN LINK FENCES AND GATES, AND CHAIN LINK FENCE
- 3. POST FOOTING SHALL HAVE A 1" CROWN FINISH
- 4. SEE CHAIN LINK FENCE DETAIL 2 FOR CHAIN LINK FENCE ASSEMBLY, ALTERNATE POSTS, AND FABRIC SELVAGE DETAILS.

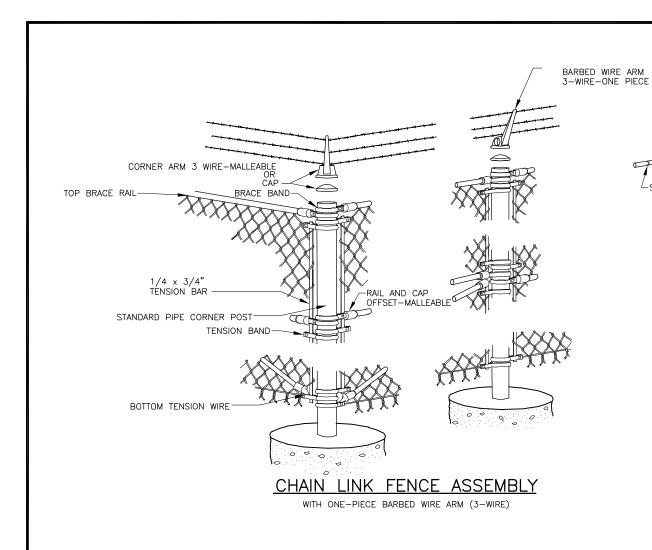


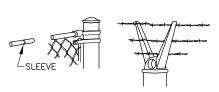
CHAIN LINK FENCE DETAIL 1

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE O2/05 SPEC.

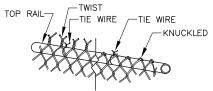
SPEC. SECTION REF#: 02830



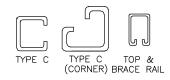


ONE-PIECE (6-WIRE)

BARBED WIRE ARM



FABRIC SELVAGE



<u>ALTERNATE POSTS</u>

SEE CHAIN LINK FENCES AND GATES



CHAIN LINK FENCE DETAIL 2

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02830

FRONT

36" high by 36" wide by 24" deep

Fabricated from 1/8" steel

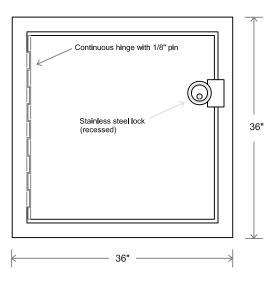
Door on one side with heavy duty hinges

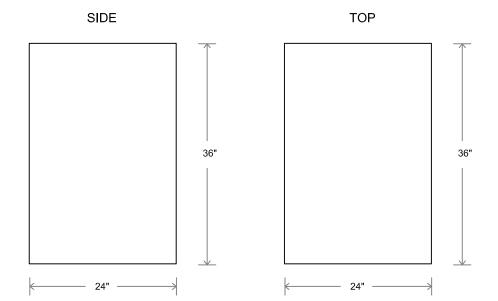
Locking device will be a deadbolt lock recessed into door

A shroud will cover the top of the lock

Box will be sanded and epoxy primed then painted with a urethane enamel top coat (black color)

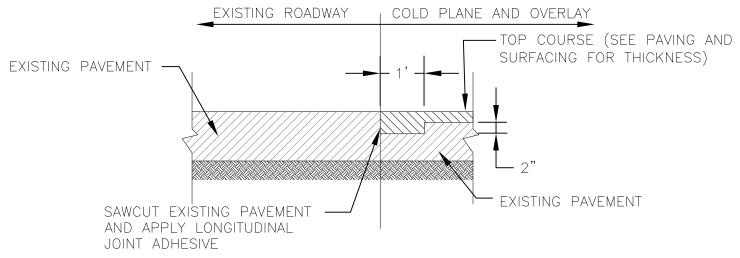
Bottom of box will have a flange around the inside with a series of 1/2" holes to allow for mounting







IRRIGATION METER BOX



1. CLEAN ALL COLD PLANED SURFACES BEFORE APPLYING JOINT ADHESIVE AND FINAL PAVEMENT

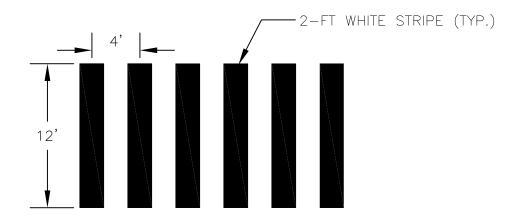


COLD PLANE AND OVERLAY JOINT DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02500



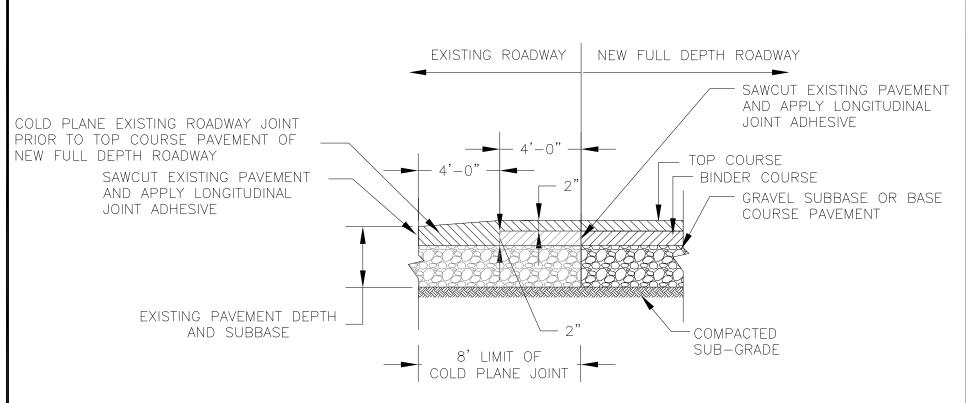
CAMBRIDGE STANDARD CROSSWALK



CAMBRIDGE STANDARD CROSSWALK

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE O2/05 SPEC. SECTION REF#: 02577 2577.1



1. CLEAN ALL COLD PLANED SURFACES BEFORE APPLYING JOINT ADHESIVE AND FINAL PAVEMENT



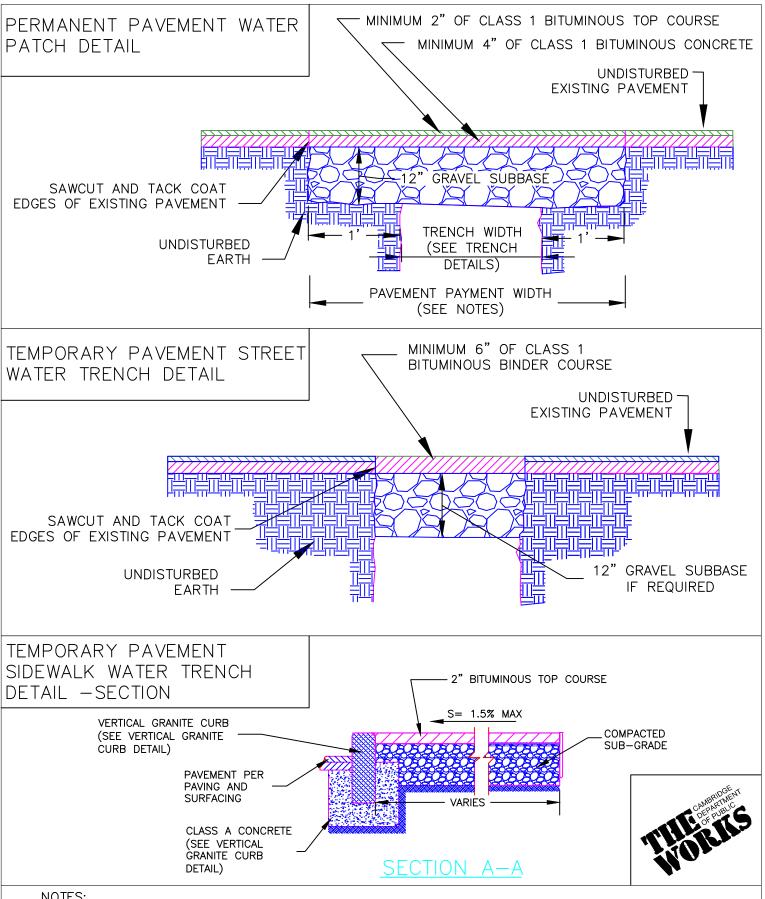
FULL DEPTH PAVEMENT JOINT DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

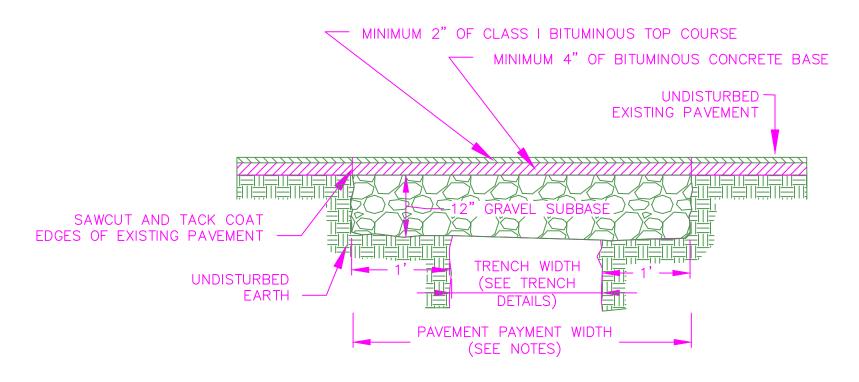
SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02500



- 1. PERMANENT TRENCH PAVEMENT PAYMENT WIDTH SHALL BE THE TRENCH PAY LIMIT PLUS 2 FEET
- 2. REMOVE AND DISPOSE ALL TEMPORARY PAVEMENT AS REQUIRED. RESTORE AND COMPACT SUBBASE AS REQUIRED PRIOR TO PERMANENT TRENCH PAVEMENT.
- 3. SIDEWALKS SHALL MATCH WIDTH AND SLOPE OF EXISTING SIDEWALKS UNLESS OTHERWISE NOTED.



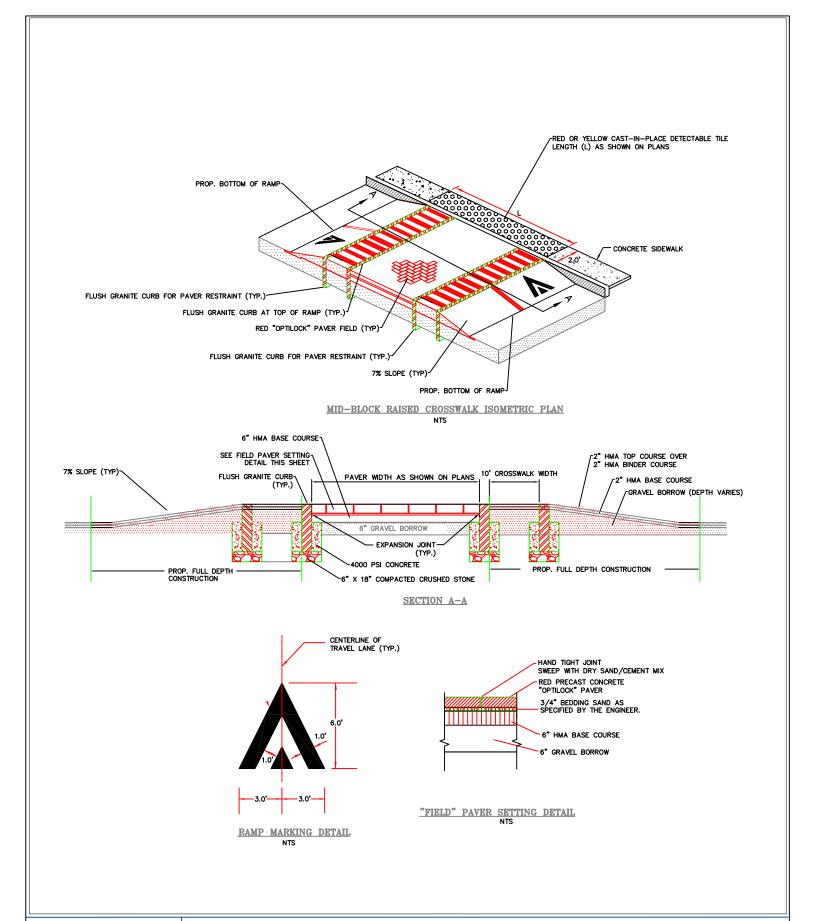
- 1. PERMANENT TRENCH PAVEMENT PAYMENT WIDTH SHALL BE THE TRENCH PAY LIMIT PLUS 2 FEET
- 2. REMOVE AND DISPOSE ALL TEMPORARY PAVEMENT AS REQUIRED. RESTORE AND COMPACT SUBBASE AS REQUIRED PRIOR TO PERMANENT TRENCH PAVEMENT.

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PERMANENT STREET WATER PATCH DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE O2/05 SPEC. SECTION REF#: 02500 2 00.1





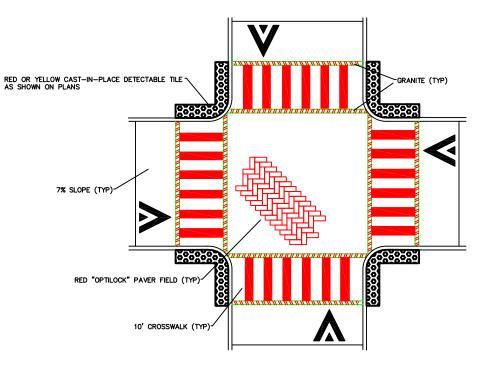
RAISED INTERSECTION / RAISED CROSSWALK DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

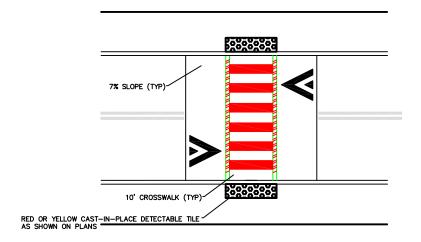
SCALE: NTS

DATE 5/201 OF ISSUE:

5/2010 SPEC. SECTION REF#:



4-WAY RAISED INTERSECTION PLAN NTS



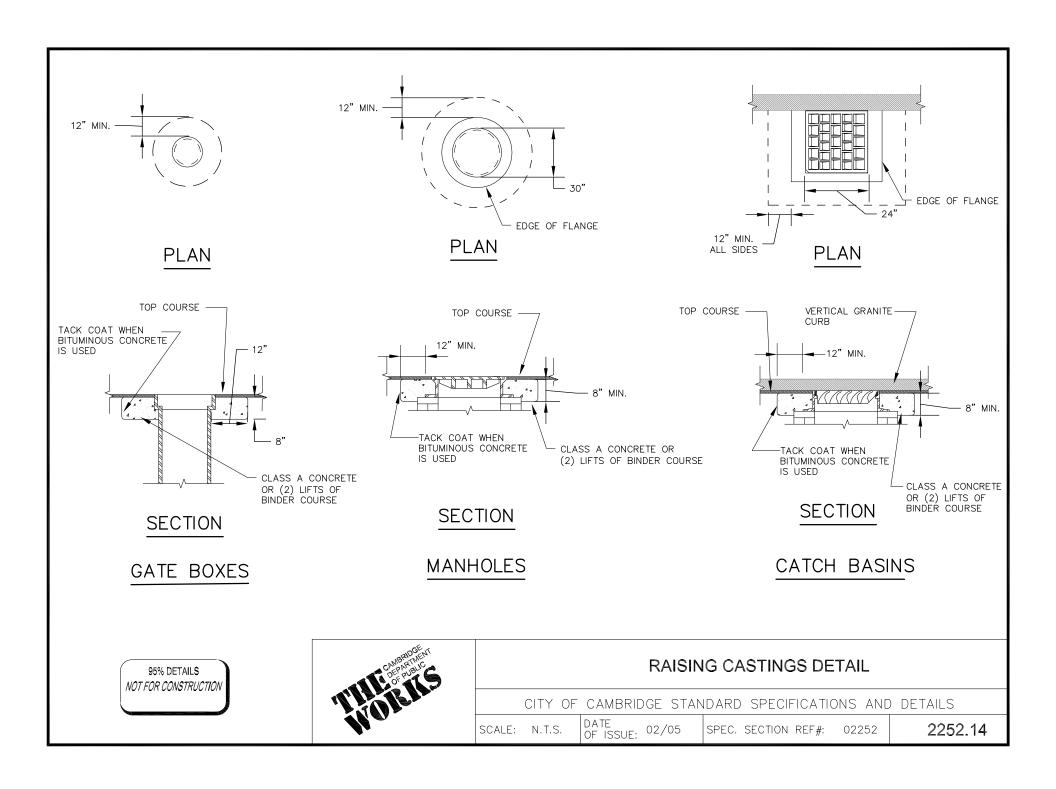


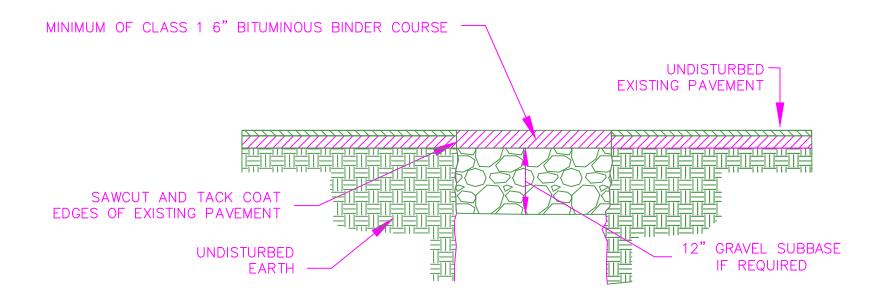
MID-BLOCK RAISED CROSSWALK DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: NTS

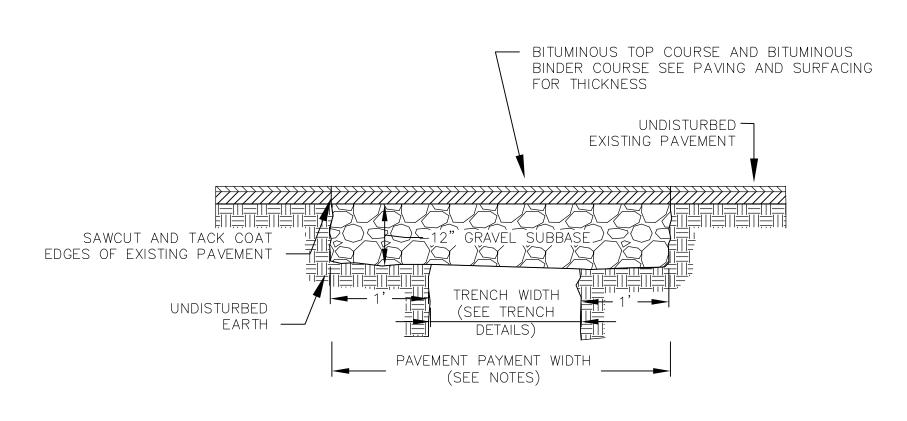
DATE 5/2010 OF ISSUE:





- 1. TEMPORARY TRENCH PAVEMENT PAYMENT WIDTH SHALL BE EQUAL TO THE TRENCH PAYMENT LIMIT
- 2. REMOVE AND DISPOSE ALL TEMPORARY PAVEMENT AS REQUIRED. RESTORE AND COMPACT SUBBASE AS REQUIRED PRIOR TO PERMANENT TRENCH PAVEMENT.

Chine and the fact of the fact	TEMPORARY STREET WATER TRENCH PATCH DETAIL			
	CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS			
	SCALE: N.T.S. DATE 02/05 SPEC. SECTION REF#: 02500 2 00.1			



- 1. PERMANENT TRENCH PAVEMENT PAYMENT WIDTH SHALL BE THE TRENCH PAY LIMIT PLUS 2 FEET
- 2. TEMPORARY TRENCH PAVEMENT PAYMENT WIDTH SHALL BE EQUAL TO THE TRENCH PAYMENT LIMIT
- 3. REMOVE AND DISPOSE ALL TEMPORARY PAVEMENT AS REQUIRED. RESTORE AND COMPACT SUBBASE AS REQUIRED PRIOR TO PERMANENT TRENCH PAVEMENT.

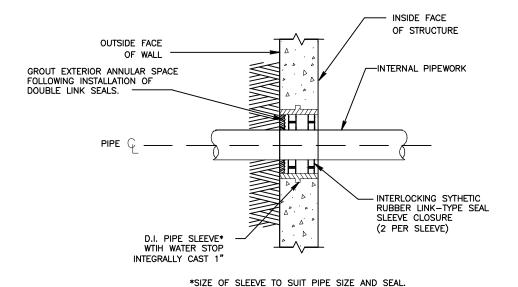
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TRENCH PAVEMENT DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02500





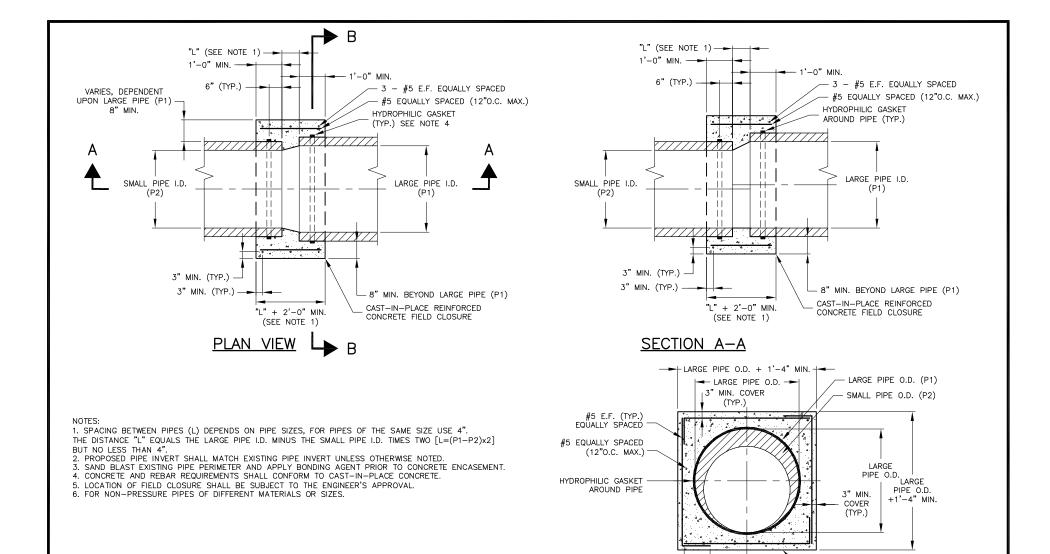
BURIED WALL PIPE SLEEVE CLOSURE

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 03300



ALIA ENTE

CAST IN PLACE FIELD CLOSURE

1'-0" MIN.

LAP (TYP.)

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

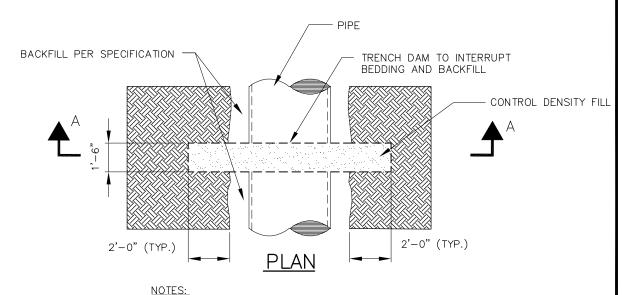
SECTION B-B

SCALE: N.T.S. DATE O2/05

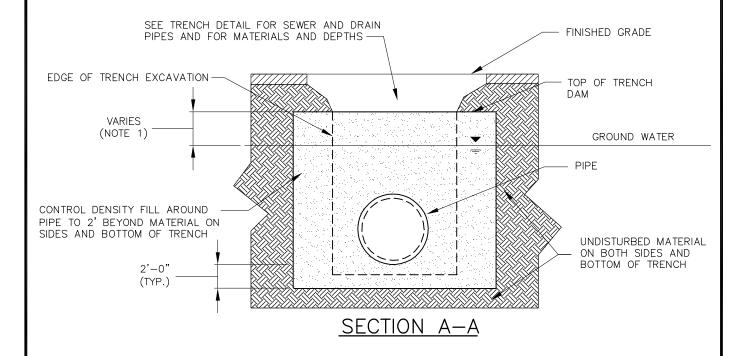
SPEC. SECTION REF#: 03300

CAST-IN-PLACE REINFORCED

CONCRETE FIELD CLOSURE



1. NOTCH TRENCH DAM A MINIMUM OF 2'-0" BEYOND UNDISTURBED MATERIAL ON SIDES AND BOTTOM OF TRENCH.



NOTES:

1. THE TOP OF THE TRENCH DAM SHALL EXTEND A MINIMUM OF 5'-0" ABOVE THE GROUND WATER LEVEL, AS DETERMINED BY THE NEAREST BORING OR BY THE ENGINEER, BUT SHALL NOT EXCEED A DEPTH OF 1'-0" BELOW FINISHED GRADE.

2. TRENCH DAMS SHALL BE INSTALLED AS INDICATED ON THE CONTRACT DRAWINGS OR AS DIRECTED BY THE ENGINEER.
3. IF PIPE MATERIAL IS DUCTILE IRON USE A NON FLY ASH BASED

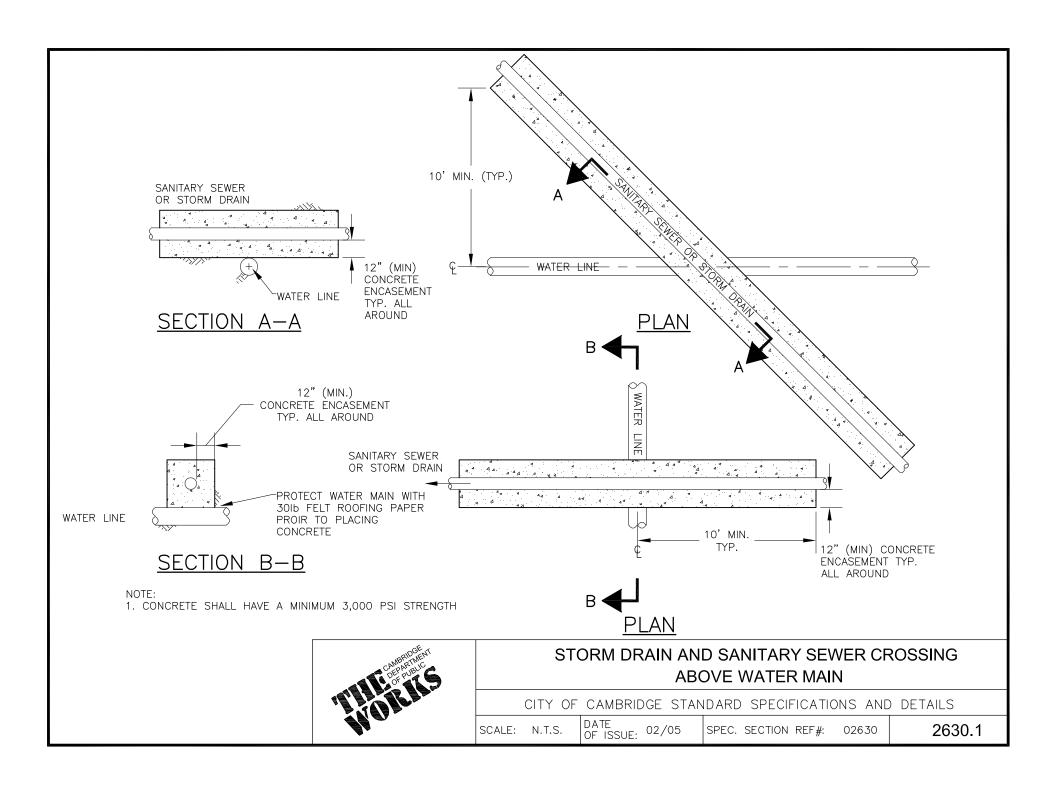
 IF PIPE MATERIAL IS DUCTILE IRON USE A NON FLY ASH BASED CONTROL DENSITY FILL

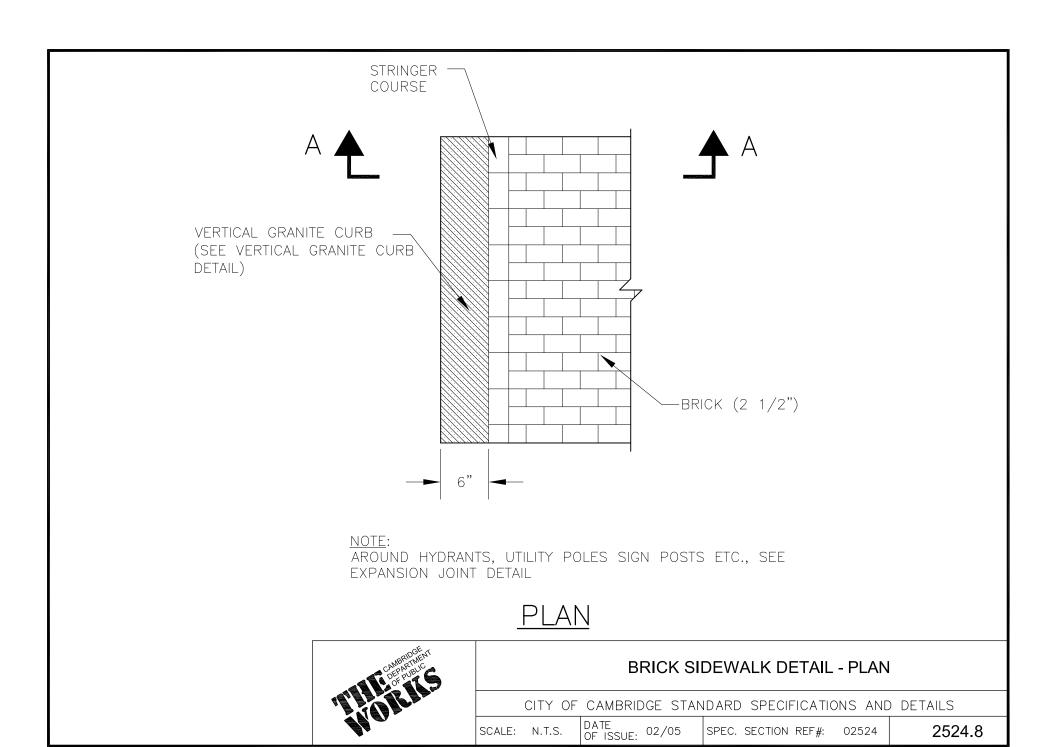


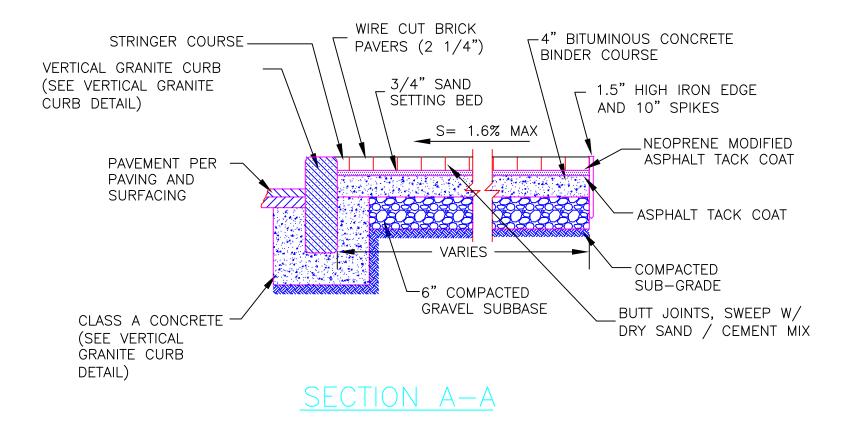
TRENCH DAM DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE O2/05 SPEC. SECTION REF#: 02210 2210.2







- 1. SIDEWALKS SHALL MATCH WIDTH AND SLOPE OF EXISTING SIDEWALKS UNLESS OTHERWISE NOTED.
- 2. BITUMINOUS CONCRETE BINDER COURSE SHALL BE 6" DEPTH (IN TWO 3" COURSES) AT DRIVEWAYS. REFER TO PROJECT DRAWINGS OR ENGINEER'S INSTRUCTIONS FOR LOCATIONS
- 3. FOR BRICK LAYOUT PATTERN SEE PLAN VIEW DETAIL 2524.8



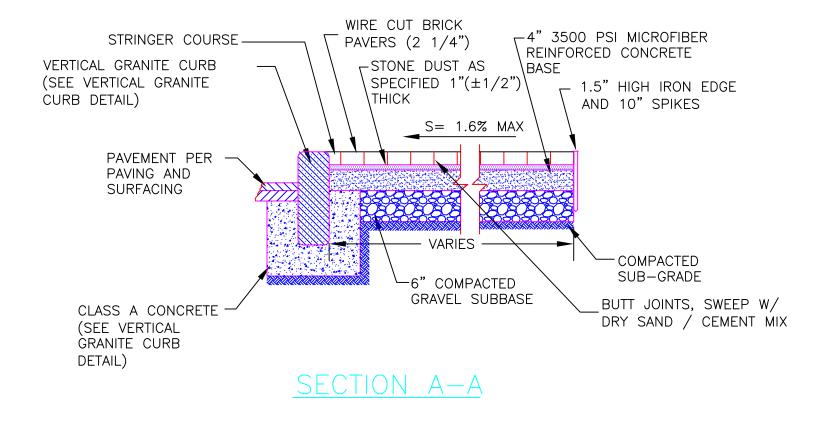
ASPHALT BASE BRICK SIDEWALK DETAIL - SECTION

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE 02/05

SPEC. SECTION REF#:

02524



- 1. SIDEWALKS SHALL MATCH WIDTH AND SLOPE OF EXISTING SIDEWALKS UNLESS OTHERWISE NOTED.
- 2. FOR BRICK LAYOUT PATTERN SEE PLAN VIEW DETAIL 2524.8



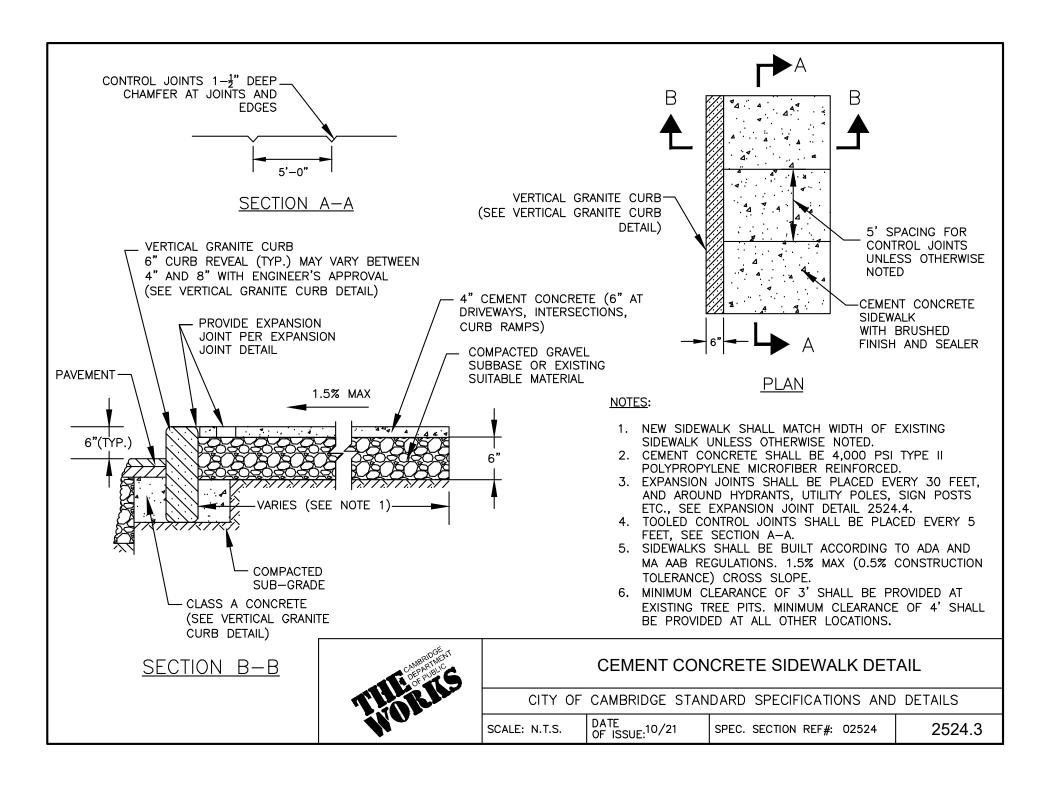
CONCRETE BASE BRICK SIDEWALK DETAIL - SECTION

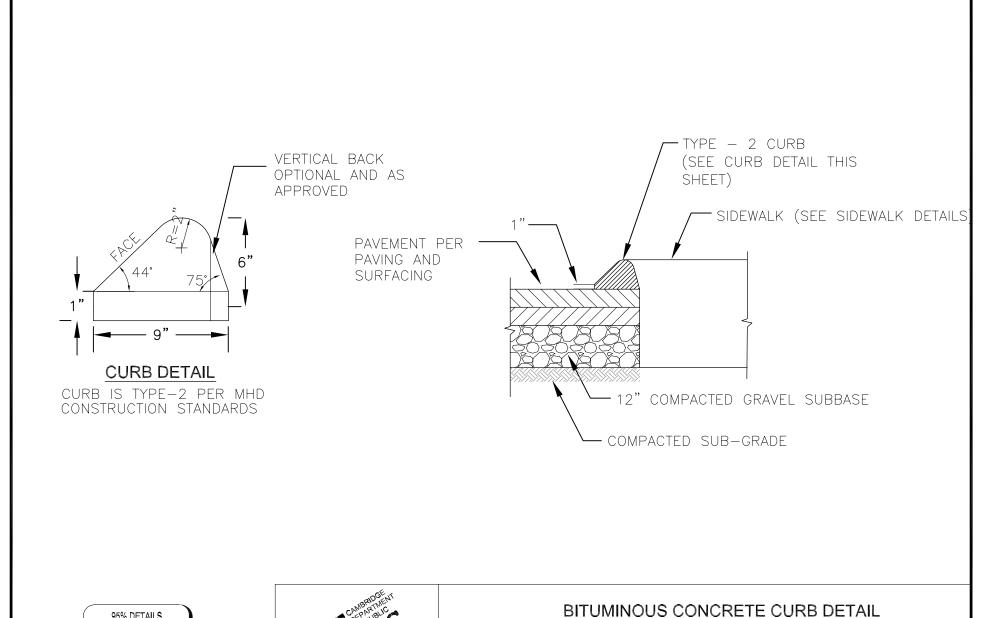
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

OF ISSUE: 02/05

SPEC. SECTION REF#: 02524



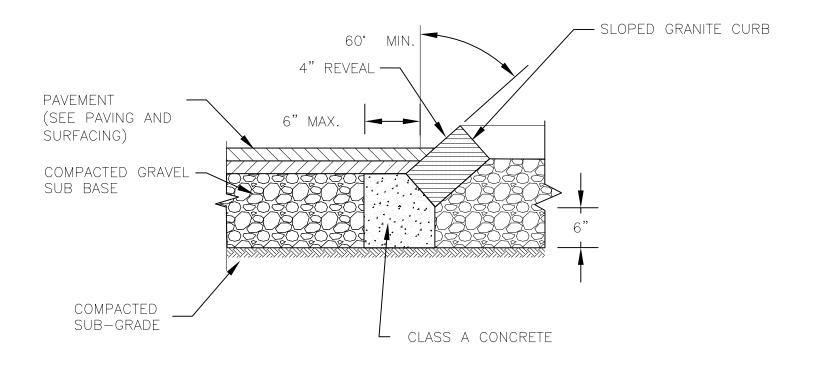


95% DETAILS NOT FOR CONSTRUCTION

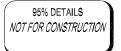


CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE OF ISSUE: 02/05 SPEC. SECTION REF#: 02524 2524.9



1. PLACE AND COMPACT GRAVEL PRIOR TO SETTING SLOPED GRANITE CURB





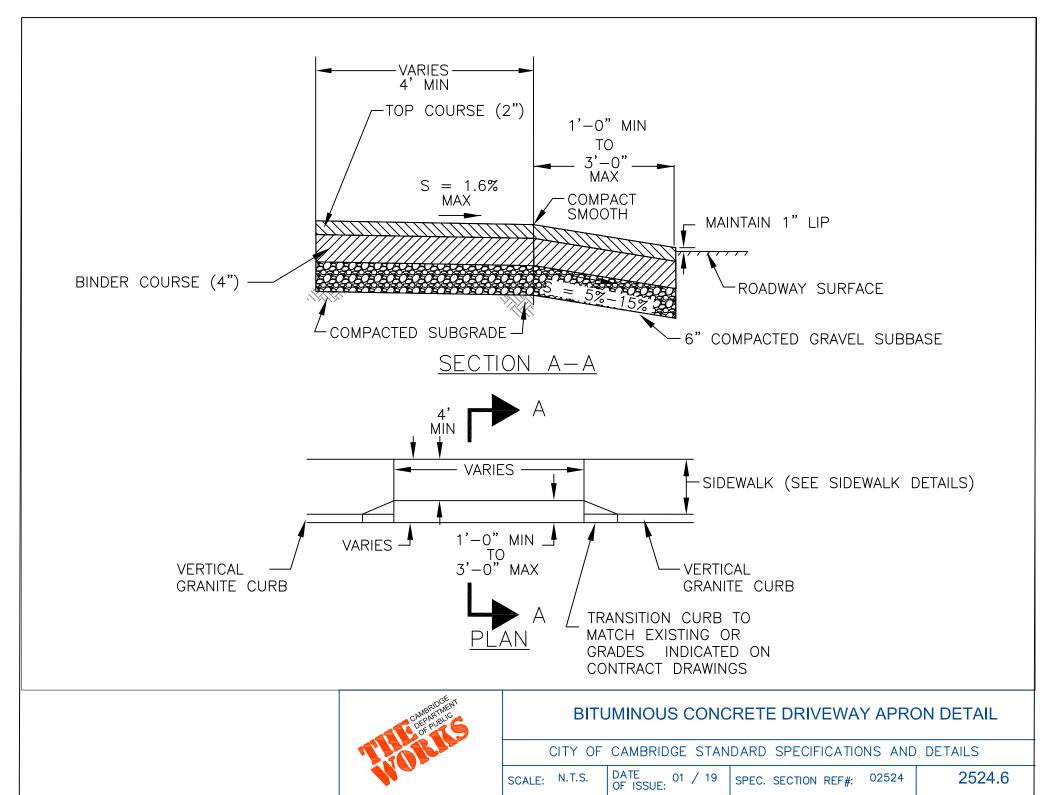
SLOPED GRANITE CURB DETAIL

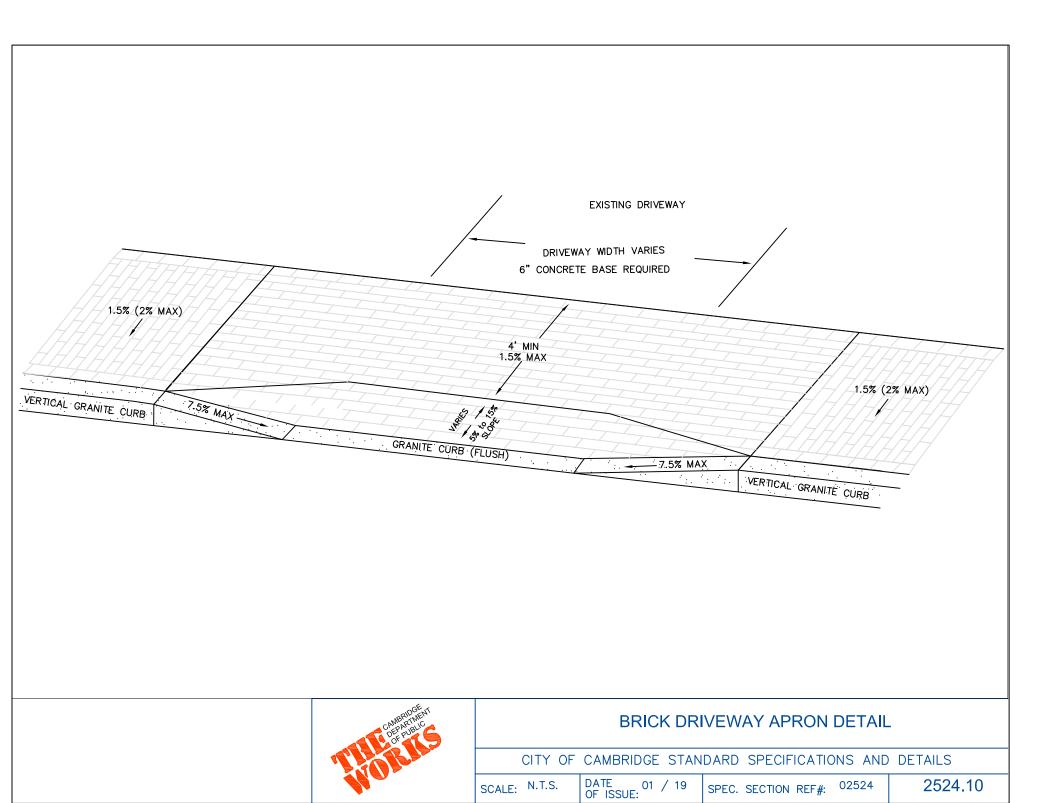
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

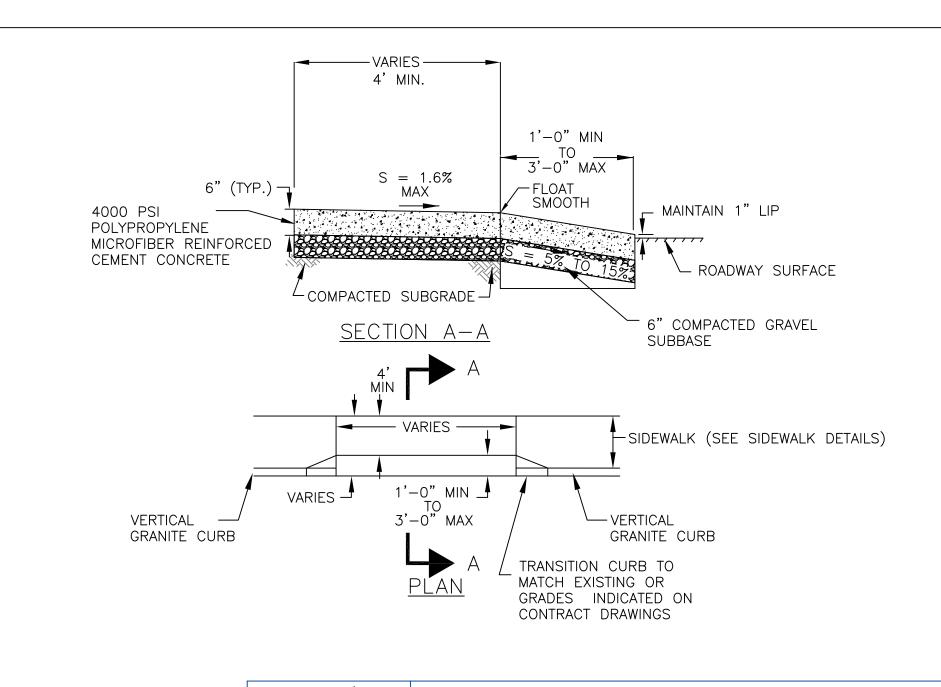
SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02524









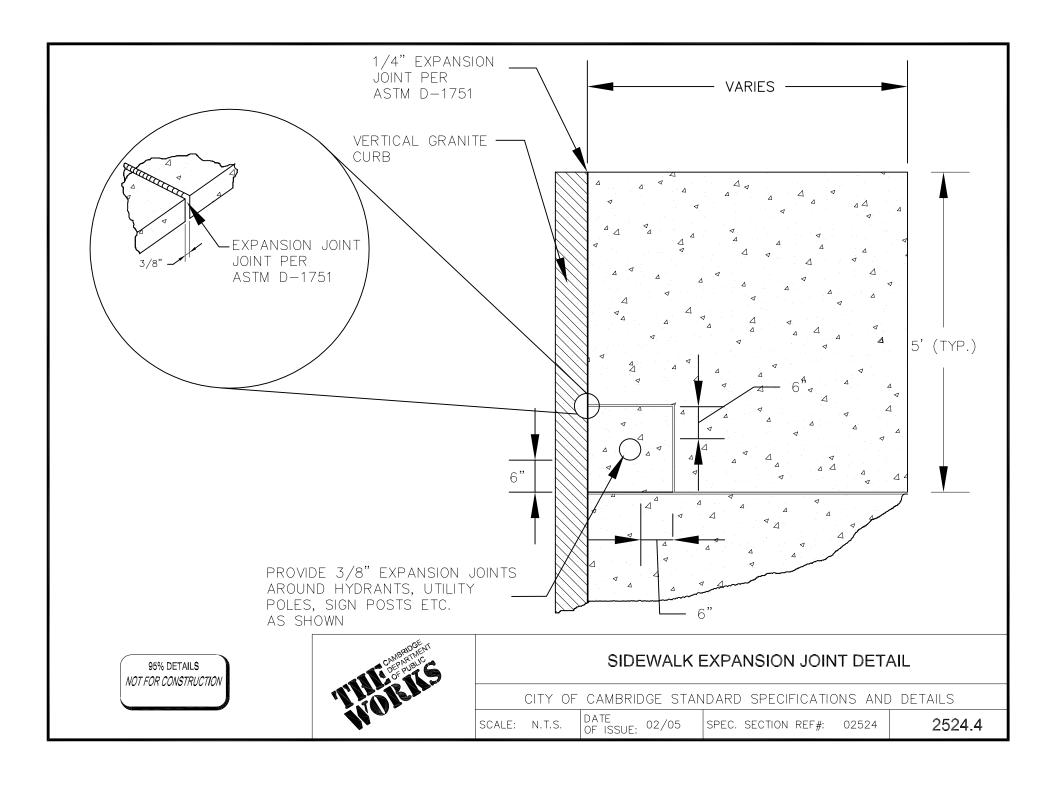
CEMENT CONCRETE DRIVEWAY APRON DETAIL

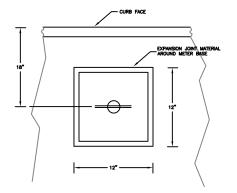
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE 01 / 19 OF ISSUE:

SPEC. SECTION REF#: 02524





PLAN - PARKING METER POST

LOOSE MATERIAL REMOVED
TO OBTIAN 12" SOLARE
POR CRIMENTING LOSE OF
PORT COLOR MAIL ONLY)

SIDEMALK GRADE

2" STANDARD GALVANIZED

STELL PIPE 50"—51" LONG

WEEP HOLE — 3/4" DA.
DRILLED IN CENTER OF
STELL PIPE, FACING CURB

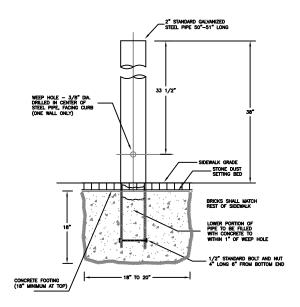
(ONE WALL ONLY)

38"

LOWER PORTION OF
PORT TO BE TILL D
WITHIN 1" OF WEEP HOLE

1/2" STANDARD BOLT AND NUT
4" LONG 6" FROM BOTTOM END

SECTION - PARKING METER POST, CONCRETE SIDEWALK



SECTION - PARKING METER POST, BRICK SIDEWALK



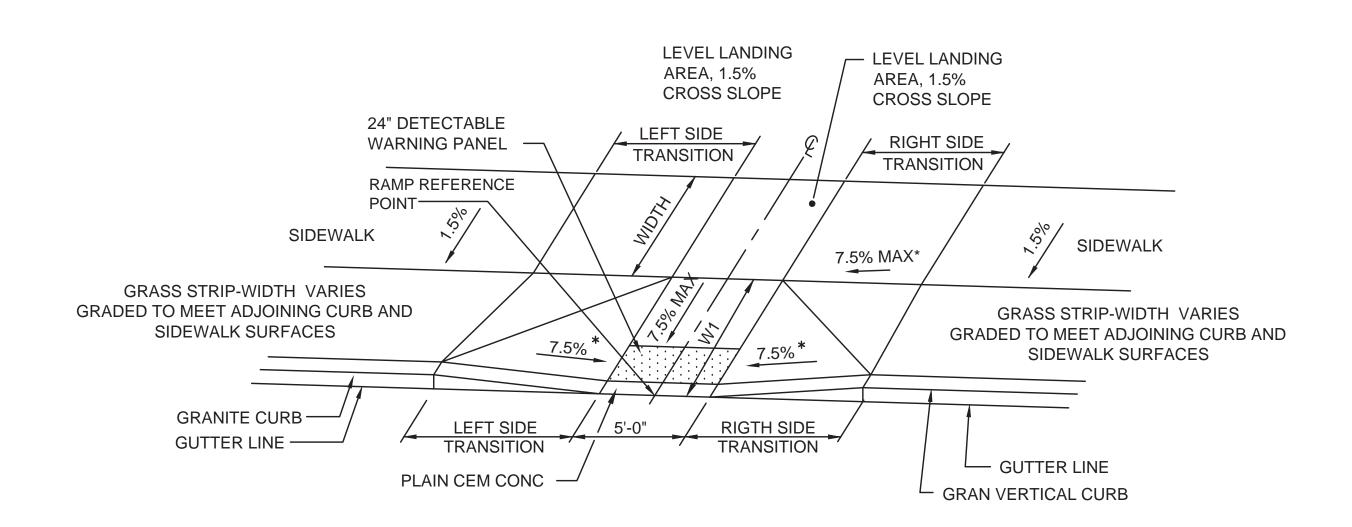
PARKING METER POST

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: NTS

DATE OF ISSUE:

SPEC. SECTION REF#:



WHEELCHAIR RAMP DETAIL - TYPE A NOT TO SCALE

					WHEE	LECHAIF	RAMP	S			
WCR #	TYPE		FERENCE P	OINT	WIDTH OF SIDEWALK	RAMP	DEPTH OF LEVEL	GUTTER	TRANSITI	ON LENGTH	REMARKS
		BASELINE	STATION	OFFSET	(W)	OPENING	LANDING	SLOPE	LEFT SIDE	RIGHT SIDE	
H1	-	HEALEY	20+22.64	13.50 LT		<u> </u>	FE RAISED	CROSSWALK	CDETAIL ON	N SHEET 55	
H2	-	HEALEY	20+22.64	13.50 RT		SEE RAISED CROSSWALK DETAIL ON SHEET 55					
P1 P2	-	PARKER PARKER	30+23.74 30+23.74	13.00 LT 13.00 RT		SEE RAISED INTERSECTION DETAIL ON SHEET 55					
P3	-	PARKER	34+33.07	14.81 LT							
P4	-	PARKER	34+65.53	14.17 LT							
P5	-	PARKER	34+29.26	7.00 RT							
P5A P6	-	PARKER PARKER	34+67.03 37+44.30	7.00 RT 13.00 RT							
P7	-	PARKER	37+36.65	13.00 KT		S	EE RAISED	CROSSWALK	(DETAIL O	N SHEET 55	
P8	А	CONCORD	41+01.68	16.79 RT	8.50'	5.00'	4.00'	2.80%	6'-6"	11'-0"	
P9	Α	CONCORD	41+01.68	16.68 LT	6.25'	5.00'	3.88'	-3.60%	6'-0"	6'-6"	
P10	-	BOND	50+27.21	17.06 RT							
P11 D1	-	BOND CLIFTON	50+27.14 1+44.71	16.15 LT 13.33 RT							
D2	-	DUDLEY	20+19.10	13.27 LT		SE	E RAISED II	NTERSECTIO	N DETAIL C	ON SHEET 55	
D3	-	DUDLEY	20+19.10	13.25 RT		J-			•		
D4	-	JACKSON	0+76.26	13.18 RT							
D5	-	JACKSON	0+76.24	13.20 LT	0.50	F 001	1.00	0.750/	01.011	41.401	
D6 D7	A	DUDLEY DUDLEY	22+57.90 23+01.45	13.25 LT 7.25 LT	6.50' 13.00'	5.00' 5.00'	4.00' 7.00'	0.75% 0.80%	6'-6" 6'-6"	4'-10" 7'-8"	
D8	A	DUDLEY	22+57.90	13.25 RT	6.50'	5.00'	4.00'	-0.75%	4'-9"	6'-6"	
D9	-	JACKSON	1+23.76	13.33 RT	0.00	!	!	!		!	
D10	-	JACKSON	1+23.74	13.31 LT				CROSSWALK 			
D11	A	DUDLEY	23+01.45	13.25 RT	7.00'	5.00'	4.00'	-0.75%	7'-8"	4'-8"	
D12 D13	Α	DUDLEY CLAY	25+38.13 0+76.24	7.25 LT 13.20 RT	13.00'	5.00'	7.00'	0.70%	6'-6"	7'-8"	
D13	-	CLAY	0+76.24	13.20 KT		S	EE RAISED	CROSSWALK	CDETAIL OF	N SHEET 55	
D15	Α	DUDLEY	25+81.56	13.25 LT	7.19'	5.00'	3.19'	0.50%	6'-6"	7'-8"	
D16	Α	DUDLEY	25+38.13	7.25 RT	12.63'	5.00'	6.63'	-0.70%	7'-8"	6'-6"	
D17	-	CLAY	1+23.74	13.19 RT		S	EE RAISED	CROSSWALK	CDETAIL OF	N SHEET 55	
D18 D19	- A	CLAY DUDLEY	1+23.76 25+81.56	13.21 LT 13.25 RT	6.50'	5.00'	3.00'	-0.50%	7'-8"	6'-6"	
D19 D20	A	DUDLEY	28+17.95	7.25 LT	13.00'	5.00'	7.00'	0.40%	6'-6"	7'-8"	
D21	-	MONTGOMERY	0+81.27	13.08 RT	10.00	!	!			!!	
D22	-	MONTGOMERY	0+81.27	13.08 LT				CROSSWALK 			
D23	A	DUDLEY	28+61.42	7.25 LT	12.50'	5.00'	6.50'	1.20%	6'-6"	9'-0"	
D24 D25	A	DUDLEY MONTGOMERY	28+17.95 1+23.77	7.25 RT 13.24 RT	12.00'	5.00'	6.00'	-0.50%	7'-8"	6'-6"	
D25	-	MONTGOMERY	1+23.77	13.24 KT		S	EE RAISED	CROSSWALK	DETAIL OF	N SHEET 55	
D27	А	DUDLEY	28+61.42	13.25 RT	6.50'	5.00'	4.00'	-1.20%	6'-6"	6'-6"	
D28	Α	DUDLEY	30+98.11	7.25 LT	12.50'	5.00'	6.50'	1.30%	6'-6"	9'-0"	
D29	-	REED	0+76.25	13.31 RT		S	EE RAISED	CROSSWALK	DETAIL O	N SHEET 55	
D30 D31	- A	REED DUDLEY	0+76.25 31+41.82	13.31 LT 13.25 LT	6.67'	5.00'	4.17'	1.30%	6'-6"	9'-0"	
D31	A	DUDLEY	30+98.11	7.25 RT	12.65'	5.00'	6.65'	-1.30%	9'-0"	6'-6"	
D33	-	REED	1+18.75	13.35 RT		!		CROSSWALK			
D34	-	REED	1+18.75	13.35 LT			_				
D35	Α	DUDLEY	31+41.82	7.25 RT	12.50'	5.00'	6.50'	-1.30%	9'-0"	6'-6"	
D36 D37	-	DUDLEY DUDLEY	34+54.72 34+55.33	15.32 RT 14.99 LT							
D37	-	DUDLEY	34+87.10	18.27 LT		SE	E RAISED II	NTERSECTIO	N DETAIL C	ON SHEET 55	
D39	-	DUDLEY	34+85.18	24.14 RT							
D40	-	DUDLEY	39+34.68	7.25 LT		.5	EE RAISED	CROSSWALK	DETAIL ON	N SHFFT 55	
D41 D42	- A	DUDLEY	39+34.68 0+69.22	13.25 RT 32.78 RT	17.00'	5.00'			9'-0"	6'-6"	
コンピン	. Δ	MASS AVE	ロキカタ ノノ	. 37 /X R I	17 (10)	י יטטי	12.00'	-1.70%	ı u:_(1" l	h - h - l	

ORIGINAL SHEET - ARCH D



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Client/Project
Cambridge Department of Public Works

Chapter 90 Contract 22 Healey St., Parker St. & Dudley St. Cambridge, MA

Title

WHEELCHAIR RAMP DETAILS

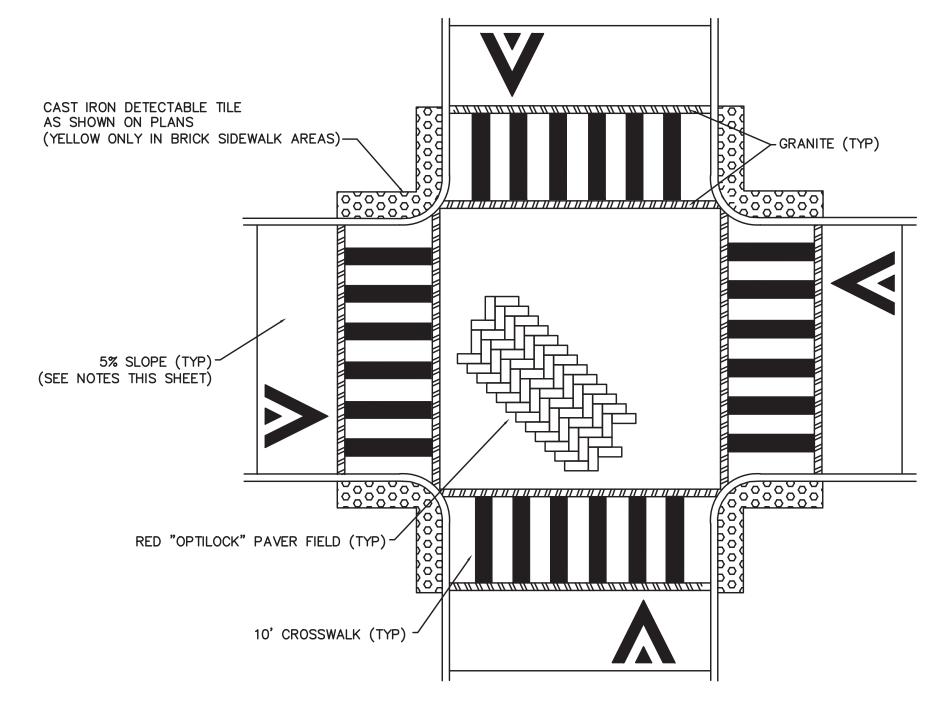
Project No.
179410352

Drawing No.

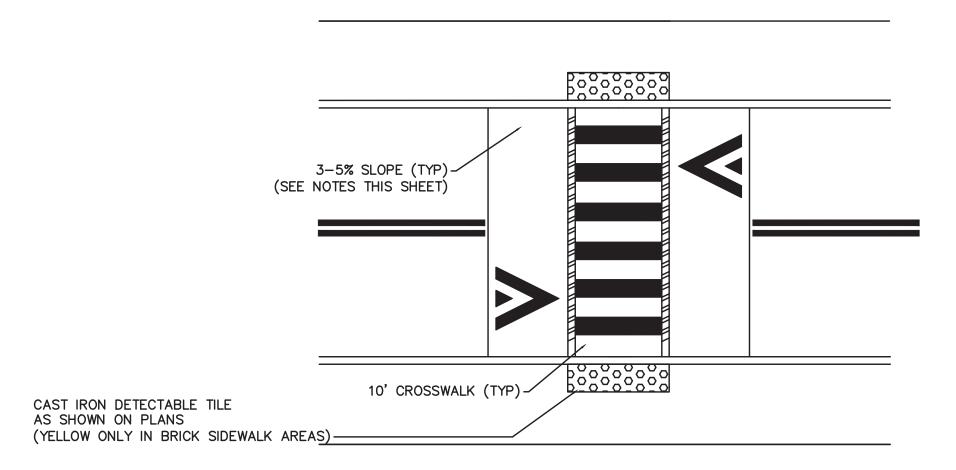
Scale
NOT TO SCALE

Revision

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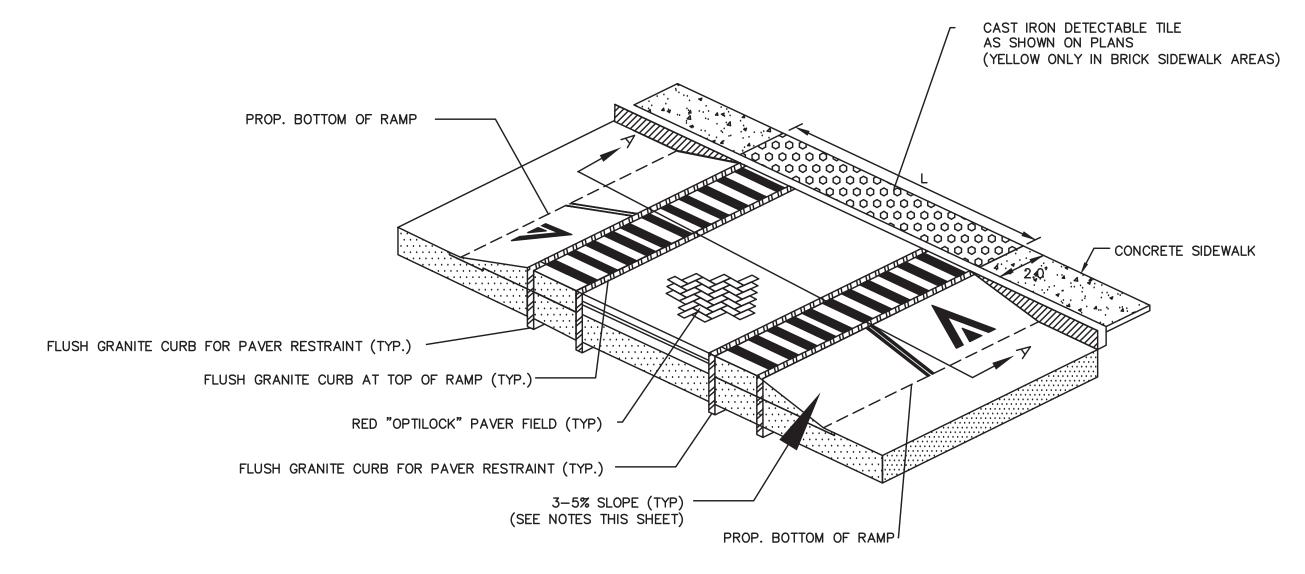


4-WAY RAISED INTERSECTION PLAN NOT TO SCALE

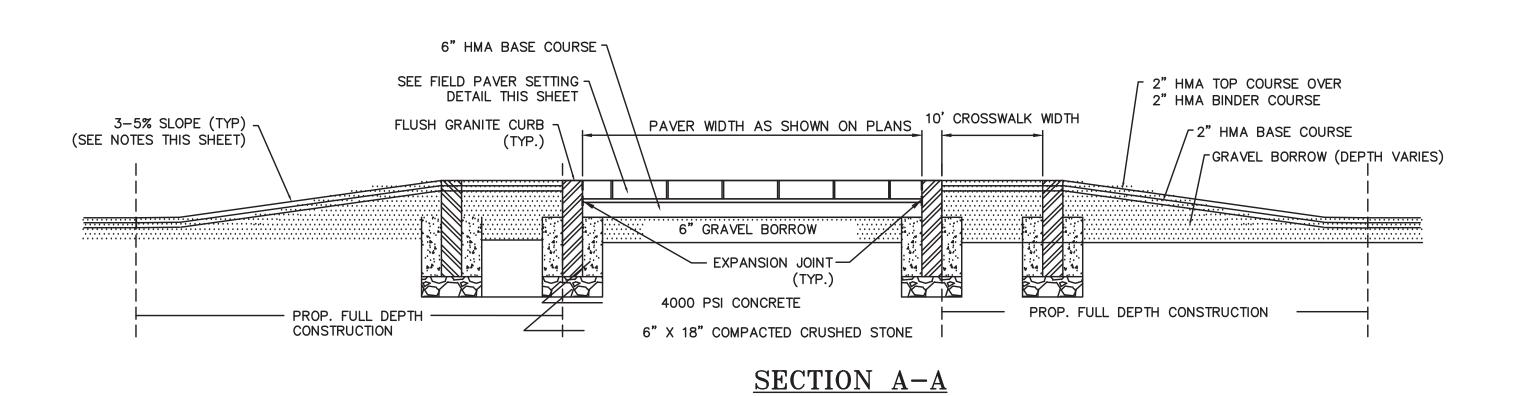


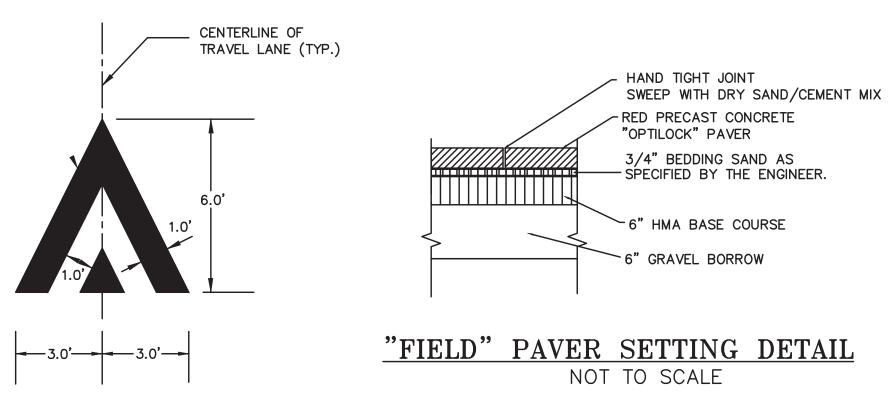
RAISED CROSSWALK PLAN NOT TO SCALE

- 1. FOR RAISED CROSSWALK/INTERSECTION APPROACH RAMPS WITH A STOP CONTROL THE SLOPE OF THE RAMP SHALL BE A 3% CHANGE FROM THE APPROACHING ROADWAY PROFILE.
- 2. FOR RAISED CROSSWALK/INTERSECTION APPROACH RAMPS WITHOUT A STOP CONTROL THE SLOPE OF THE RAMP SHALL BE A 5% CHANGE FROM THE APPROACHING ROADWAY PROFILE.

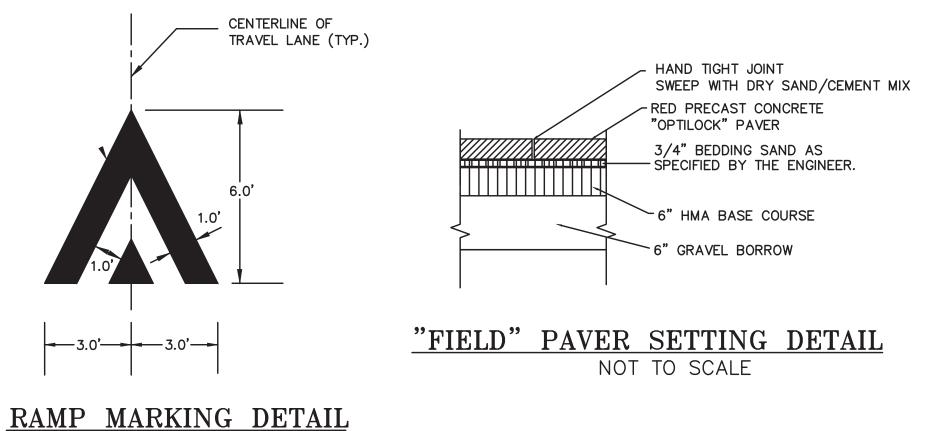


RAISED CROSSWALK ISOMETRIC PLAN NOT TO SCALE





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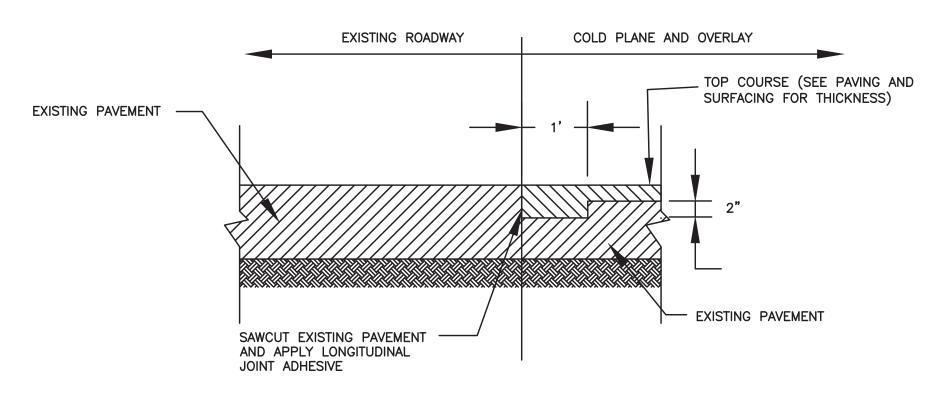
Chapter 90 Contract 22 Healey St., Parker St. & Dudley St. Cambridge, MA

Title CONSTRUCTION DETAILS PART 1 OF 5

Scale AS NOTED Project No. 179410352 Revision Drawing No. Sheet

55 of 61

ORIGINAL SHEET - ARCH D



NOTES:

1. CLEAN ALL COLD PLANED SURFACES BEFORE APPLYING JOINT ADHESIVE AND FINAL PAVEMENT

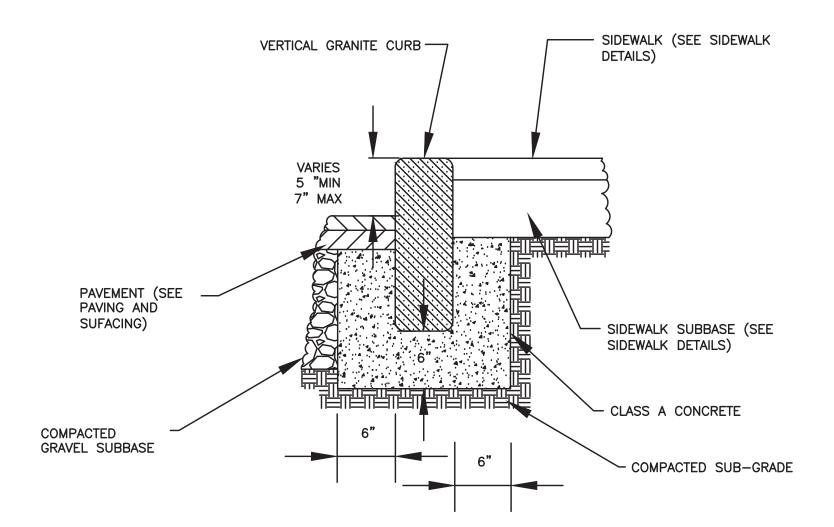
COLD PLANE AND OVERLAY JOINT DETAIL

NOT TO SCALE

EXISTING FENCES TO — PROP REVEAL VARIES (0"-8") (SEE GRADING PLANS) BE RETAINED — PROP SAWCUT - PROP JOINT SEALER, MEET EXIST -NOT DEEPER THAN 1/2" - APPROX. EXIST. GRADE COMPACTED SUBGRADE-PROP 4 INCH WIDE GRANITE CURB — COMPACTED SUBGRADE - PROP CEM CONC SIDEWALK/WHEELCHAIR RAMP - PROP GRAVEL BORROW TYPE b, COURSE TO BE GRADED, SHAPED AND ROLLED PROP 1/2" PREFORMED EXPANSION JOINT FILLER

4 INCH GRANITE CURB AT BACK
OF SIDEWALK

NOT TO SCALE



VERTICALGRANITECURBDETAILNOT TO SCALE

SIDEWALK EXPANSION JOINT DETAIL

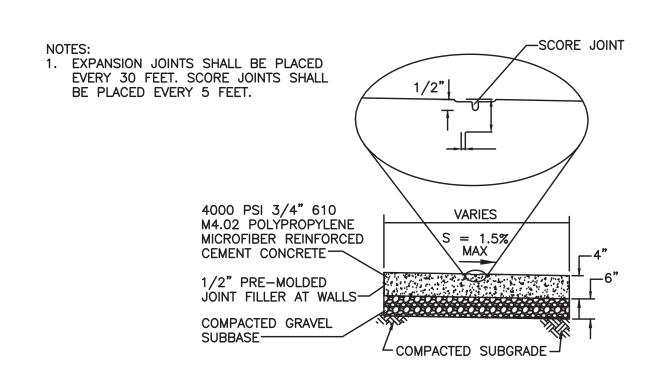
NOT TO SCALE

1/4" EXPANSION — JOINT PER ASTM D-1751

VERTICAL GRANITE -

PROVIDE 3/8" EXPANSION JOINTS AROUND HYDRANTS, UTILITY POLES, SIGN POSTS ETC.
AS SHOWN

JOINT PER ASTM D-1751

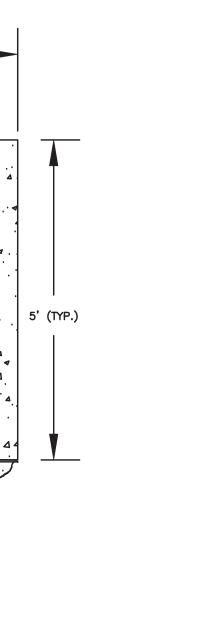


1'-8"

2'-6"

CEMENT CONCRETE SIDEWALK DETAIL

NOT TO SCALE



PRECAST PEDESTRIAN SIGNAL BASE
NOT TO SCALE

22" (MIN.)

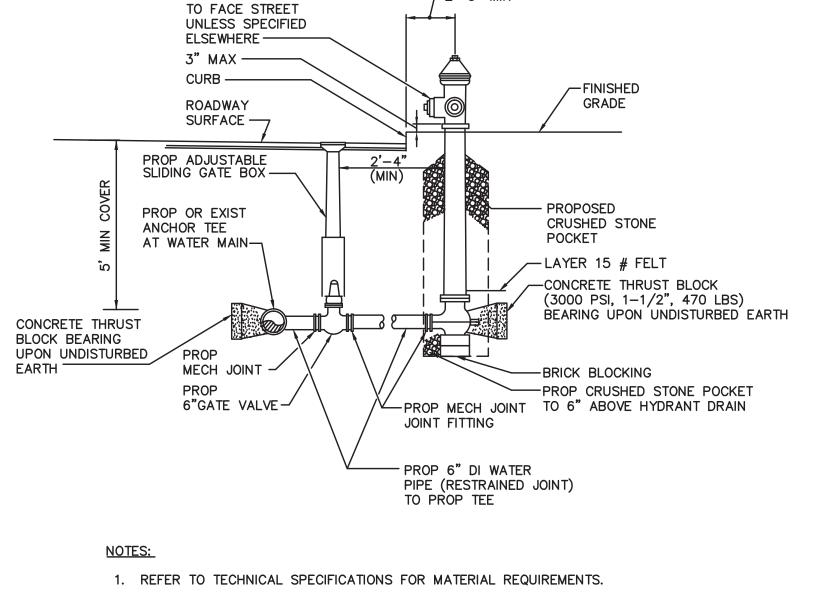
3/4"Ø X 24"

ANCHOR BOLTS HOT DIPPED GALVANIZED WITH

-NUT AND WASHER└─∕√

- 1 of (2) #3 X 14" 4"

ROADWAY SURFACE

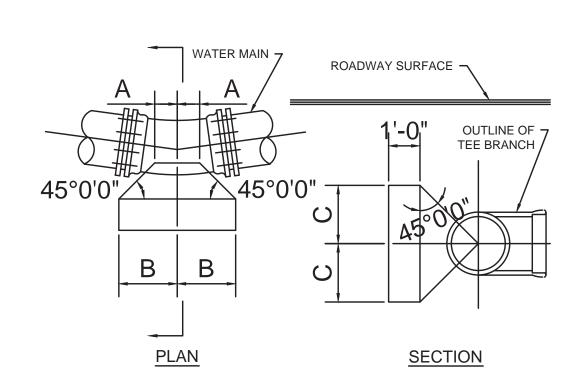


PUMPER CONNECTION

- 2. THE CONTRACTOR SHALL RESTRAIN ALL EXISTING PIPE AND FITTINGS WITH CLAMPS, HARNESSES AND/OR ANY OTHER MEANS ACCEPTED BY THE ENGINEER PRIOR TO REMOVING ANY OF THE EXISTING HYDRANT COMPONENTS.
- 3. FOR HYDRANTS RELOCATED TO NEW MAIN CONNECTION LOCATIONS, THE EXISTING TEE WILL BE REMOVED AND REPLACED WITH A MECHANICAL DRESSER COUPLING AND SUITABLE SIZED SECTION OF PIPE.
- 4. ALL HYDRANTS SHALL BE CONSISTENT WITH CITY OF MELROSE WATER DEPARTMENT STANDARDS.
- 5. IF CONCRETE THRUST BLOCK IS USED, DO NOT BLOCK DRAIN.

PROPOSED FIRE HYDRANT DETAIL

NOT TO SCALE

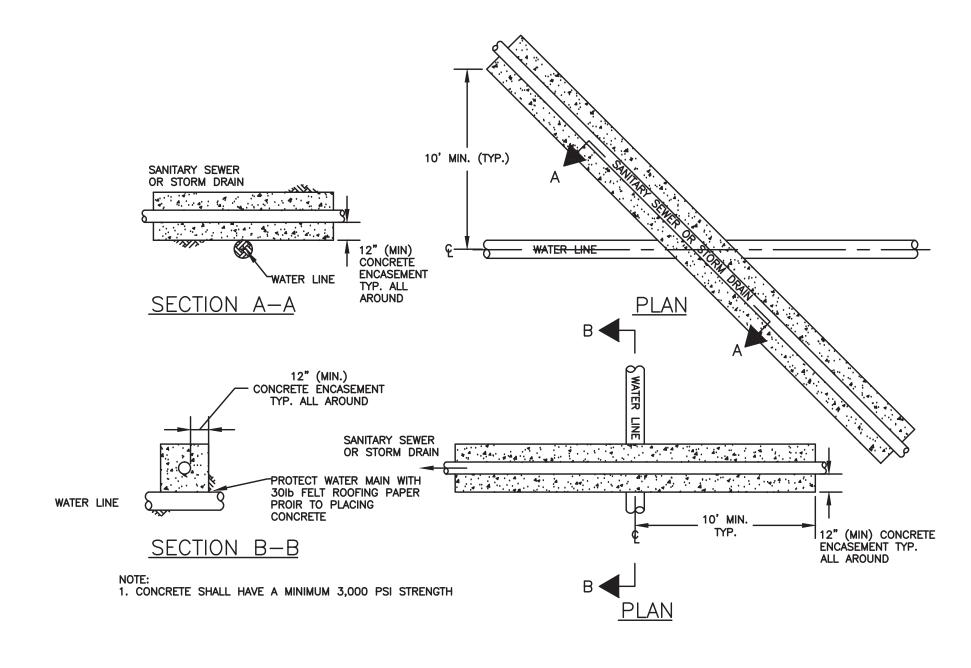


HORIZONTAL THRUST BI DIMENSIOI			BLE OF
	А	В	С
6", 8" BEND			
1/32, 1/16	6"	10"	10"
1/8	6"	14"	14"
1/4	9"	19"	19"
TEE (BRANCH), HYDRANT			
6"	6"	15"	15"
8"	9"	16"	16"

NOTES:

- REFER TO TECHNICAL SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
- SUBJECT TO FIELD MODIFICATION BY ENGINEER.

THRUST BLOCK DETAIL NOT TO SCALE



STORM DRAIN AND SANITARY SEWER CROSSING
ABOVE WATER MAIN

NOT TO SCALE



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Cambridge Department of Public Works

Chapter 90 Contract 22 Healey St., Parker St. & Dudley St. Cambridge, MA

Title CONSTRUCTION DETAILS PART 2 OF 5

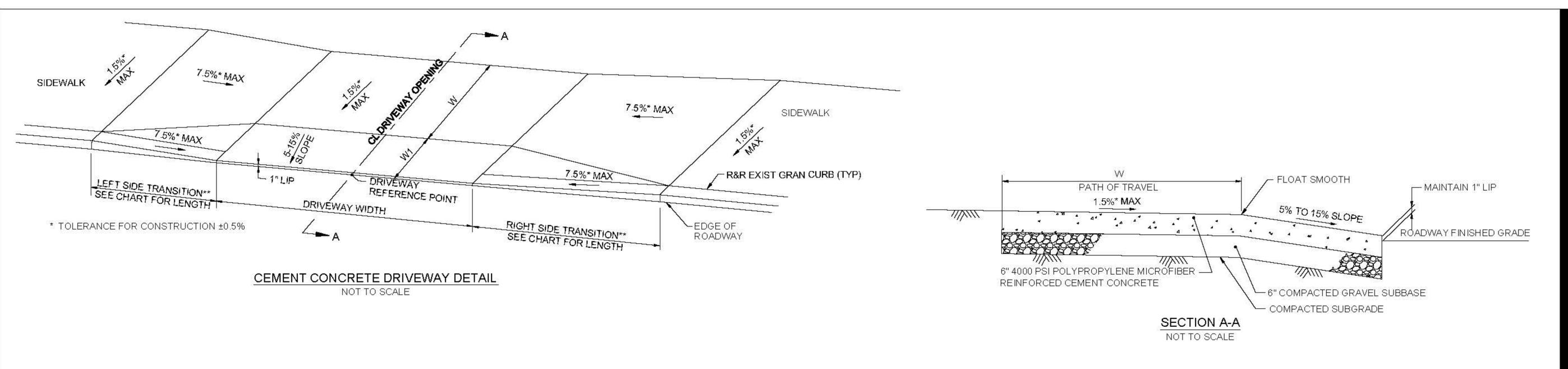
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179410352

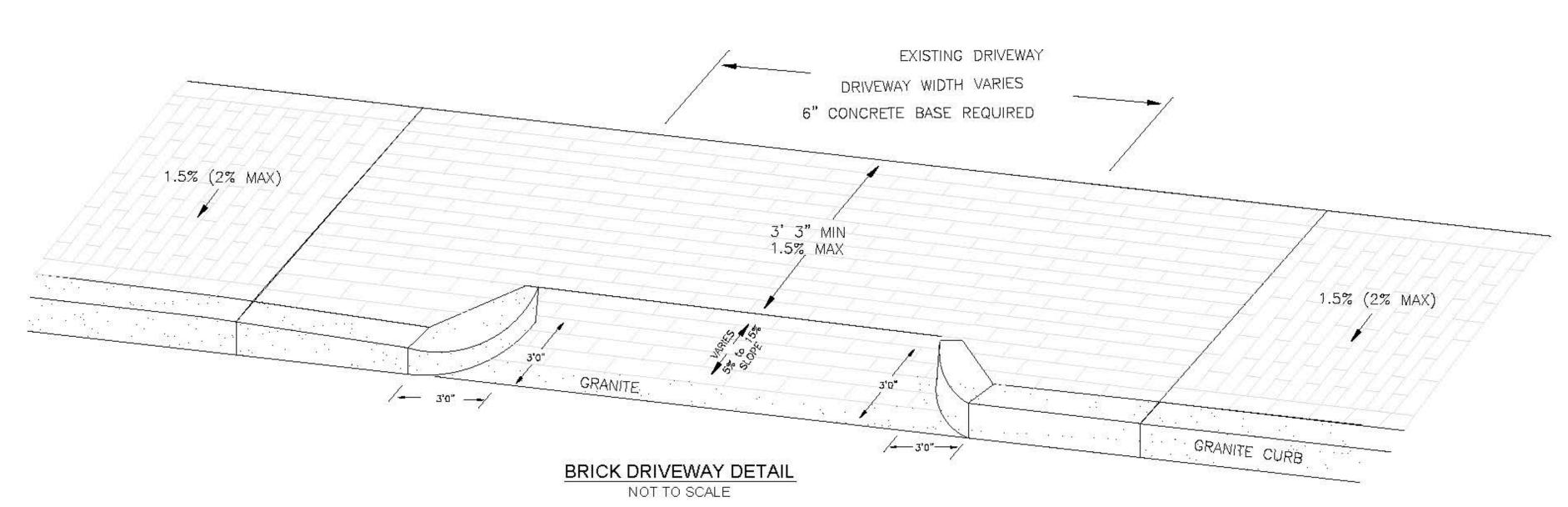
Drawing No.

Scale AS NOTED
Revision

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ORIGINAL SHEET - ARCH D





DRIVEWAYS										
DW#	RAMP REFERENCE POINT			WIDTH OF RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF DRIVEWAY	ROADWAY GUTTER	TRANSITION LENGTH		REMARKS
	BASELINE	STATION	OFFSET	-100 000 (000)	(VV)	AT GUTTER	R SLOPE	LEFT SIDE	RIGHT SIDE	100.00 - 0
H1	HEALEY	20+78.12	13.50 RT	1.50'	3.32'	13.00'	9.70%	2'-0"	15'-0"	3 INCH REVEAL LT SIDE
H2	HEALEY	20+93.62	13.50 RT	1.50'	3.06'	10.00'	9.00%	6'-6"	2'-0"	3 INCH REVEAL RT SIDE
Н3	HEALEY	21+07.35	13.50 LT	2.50'	3.00'	12.00'	-9.50%	15'-0"	3'-3"	3 INCH REVEAL RT SIDE
H4	HEALEY	21+26.32	13.50 RT	2.00'	3.00'	10.00'	6.00%	6'-6"	15'-0"	
H5	HEALEY	21+29.72	13.50 LT	2.00'	3.00'	12.00'	-4.20%	7'-2"	6'-6"	3 INCH REVEAL LT SIDE
H6	HEALEY	21+83.46	13.50 RT	2.00'	3.00'	10.00'	3.00%	6'-6"	14'-0"	
H7	HEALEY	22+15.07	13.50 LT	2.50'	3.00'	12.00'	1.70%	6'-6"	9'-0"	
H8	HEALEY	22+73.30	13.50 RT	2.00'	3.15'	14.00'	-0.50%	7'-8"	6'-6"	
H9	HEALEY	22+79.26	13.50 LT	2.00'	3.5'	20.00'	1.00%	6'-6"	9'-0"	
H10	HEALEY	23+60.86	13.50 LT	2.00'	4.00'	12.00'	0.50%	6'-6"	2'-0"	HIGH POINT RT SIDE
H11	HEALEY	23+75.76	13.50 LT	2.00'	4.00'	10.00'	-0.60%	2'-0"	6'-6"	HIGH POINT LT SIDE
P1	PARKER	30+85.47	13.00 LT	3.00'	4.16'	18.00'	-2.60%	14'-0"	6'-6"	
P2	PARKER	31+73.56	13.00 LT	3.00'	4.00'	13.00'	0.00%	6'-6"	6'-6"	AT HIGH POINT
P3	PARKER	32+79.50	13.00 RT	2.50'	4.50'	20.00'	-0.40%	7'-8"	6'-6"	
P4	PARKER	32+81.83	13.00 LT	2.50'	4.00'	12.00'	0.40%	6'-6"	7'-8"	
P5	PARKER	33+26.01	13.00 LT	3.00'	4.00'	12.00'	0.20%	7'-8"	6'-6"	
P6	PARKER	33+65.75	13.00 LT	3.00'	4.00'	11.00'	0.00%	6'-6"	6'-6"	AT HIGH POINT
P7	PARKER	33+74.16	13.00 RT	2.00'	5.00'	13.00'	0.00%	7'-8"	6'-6"	AT HIGH POINT
P8	PARKER	34+94.03	13.00 LT	2.50'	4.00'	10.00'	0.40%	6'-0"	7'-8"	
P9	PARKER	35+02.36	13.00 RT	2.00'	4.00'	16.00'	-0.50%	7'-8"	5'-4"	
P10	PARKER	35+37.05	13.00 LT	2.50'	4.00'	12.00'	1.75%	6'-6"	2'-0"	3 INCH REVEAL RT SIDE
P11	PARKER	35+53.50	13.00 RT	2.50'	4.00'	12.00'	-2.65%	9'-0"	6'-6"	
P12	PARKER	35+69.55	13.00 LT	2.50'	4.50'	45.00'	4.50%	2'-0"	15'-0"	3 INCH REVEAL LT SIDE
P13	PARKER	36+29.25	13.00 RT	2.00'	4.00'	12.00'	-4.20%	15'-0"	6'-6"	
P14	PARKER	36+67.90	13.00 RT	6.00'	6.00'	14.00'	-7.10%	15'-0"	6'-6"	
D1	DUDLEY	21+23.97	13.25 RT	6.50'	6.50'	21.00'	-1.00%	2'-0"	6'-6"	3 INCH REVEAL LT SIDE
D2	DUDLEY	21+54.91	13.25 LT	2.00'	5.00'	54.00'	0.80%	6'-6"	2'-0"	3 INCH REVEAL RT SIDE
D3	DUDLEY	21+45.47	13.25 RT	2.50'	4.00'	12.00'	-1.00%	7'-0"	2'-0"	3 INCH REVEAL RT SIDE
D4	DUDLEY	21+90.91	13.25 LT	2.00'	4.50'	10.00'	0.80%	2'-0"	7'-8"	3 INCH REVEAL LT SIDE

DRIVEWAYS										
DW#	RAMP REFERENCE POINT			WDTH OF RAMP (W1)	WIDTH OF SIDEWALK	WIDTH OF DRIVEWAY	AY GUTTER	TRANSITION LENGTH		REMARKS
	BASELINE	STATION	OFFSET	Para anno Nordaki	(VV)	AT GUTTER	SLOPE	LEFT SIDE	RIGHT SIDE	
D5	DUDLEY	23+45.19	13.25 RT	3.00'	4.00'	12.00'	-0.80%	7'-8"	6'-6"	
D6	DUDLEY	23+85.69	13.25 RT	3.00'	4.00'	12.00'	-1.20%	10'-9"	6'-6"	ij
D7	DUDLEY	23+85.91	13.25 LT	2.50'	4.00'	12.00'	1.20%	6'-6"	9'-0"	
D8	DUDLEY	24+23.51	13.25 LT	2.50'	4.00'	12.00'	1.20%	6'-6"	9'-0"	<u> </u>
D9	DUDLEY	24+64.84	13.25 LT	2.50'	4.00'	12.00'	1.20%	6'-6"	9'-0"	
D10	DUDLEY	24+64.55	13.25 RT	3.00'	4.00'	12.00'	-0.95%	7'-8"	6'-6"	î
D11	DUDLEY	25+04.51	13.25 LT	2.00'	5.00'	12.00'	1.10%	9'-4"	9'-0"	
D12	DUDLEY	26+29.33	13.25 LT	3.00'	3.00'	10.00'	0.80%	6'-6"	7'-8"	
D13	DUDLEY	26+59.54	13.25 RT	2.50'	4.00'	13.00'	-0.50%	7'-8"	6'-6"	<u> </u>
D14	DUDLEY	26+63.26	13.25 LT	3.00'	3.50'	12.00'	0.80%	7'-0"	7'-8"	<u>_</u>
D15	DUDLEY	27+10.69	13.25 RT	2.00'	4.50'	10.00'	-0.50%	7'-8"	6'-6"	
D16	DUDLEY	27+33.44	13.25 LT	3.00'	3.50'	12.00'	0.50%	6'-6"	7'-0"	II.
D17	DUDLEY	27+55.52	13.25 RT	2.00'	4.50'	12.00'	-0.50%	7'-8"	6'-6"	
D18	DUDLEY	29+19.22	13.25 RT	2.00'	5.00'	12.00'	-1.40%	8'-8"	6'-6"	
D19	DUDLEY	29+40.83	13.25 LT	2.00'	4.50'	12.00'	1.40%	4'-8"	9'-0"	<u> </u>
D20	DUDLEY	29+47.36	13.25 RT	2.50'	4.50'	14.00'	-1.40%	9'-0"	6'-6"	
D21	DUDLEY	30+19.55	13.25 LT	6.50'	6.50'	12.00'	1.40%	6'-6"	9'-0"	
D22	DUDLEY	30+24.05	13.25 RT	3.00'	3.70'	12.00'	-1.40%	9'-0"	6'-6"	
D23	DUDLEY	33+12.31	13.25 RT	2.00'	4.50'	18.00'	-1.10%	9'-0"	6'-6"	
D24	DUDLEY	34+13.80	13.25 LT	2.00'	4.50'	18.00'	1.00%	6'-6"	7'-0"	
D25	DUDLEY	35+89.31	13.25 LT	3.00'	4.00'	12.00'	0.50%	6'-6"	7'-8"	
D26	DUDLEY	36+23.63	13.25 LT	3.00'	4.00'	14.00'	0.60%	6'-6"	7'-8"	
D27	DUDLEY	36+70.74	13.25 LT	3.00'	4.00'	12.00'	0.50%	6'-6"	7'-8"	
D28	DUDLEY	36+74.80	13.25 RT	3.00'	4.00'	12.00'	-0.50%	7'-8"	6'-6"	
D29	DUDLEY	37+47.76	13.25 LT	3.00'	4.00'	14.00'	0.50%	6'-6"	7'-8"	
D30	DUDLEY	37+85.38	13.25 LT	3.00'	4.00'	12.00'	-0.10%	7'-8"	6'-6"	
D31	DUDLEY	38+34.51	13.25 LT	3.00'	4.00'	12.00'	-0.60%	7'-8"	6'-6"	
D32	DUDLEY	38+20.87	13.25 RT	3.00'	4.00'	26.00'	0.50%	9'-8"	4'-10"	Ų.



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Issued			Appd.	WM.YY
Rie Name: war det contract 22.dwa	DWN	CHKD	DSGN	DAT



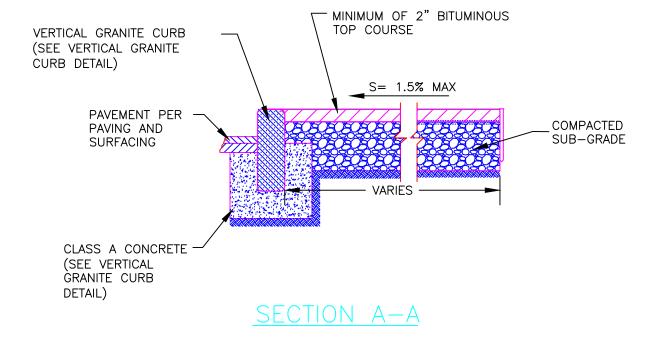
Cambridge Department of Public Works

Chapter 90 Contract 22 Healey St., Parker St. & Dudley St. Cambridge, MA

DRIVEWAY DETAILS

NOT TO SCALE

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1. SIDEWALKS SHALL MATCH WIDTH AND SLOPE OF EXISTING SIDEWALKS UNLESS OTHERWISE NOTED.



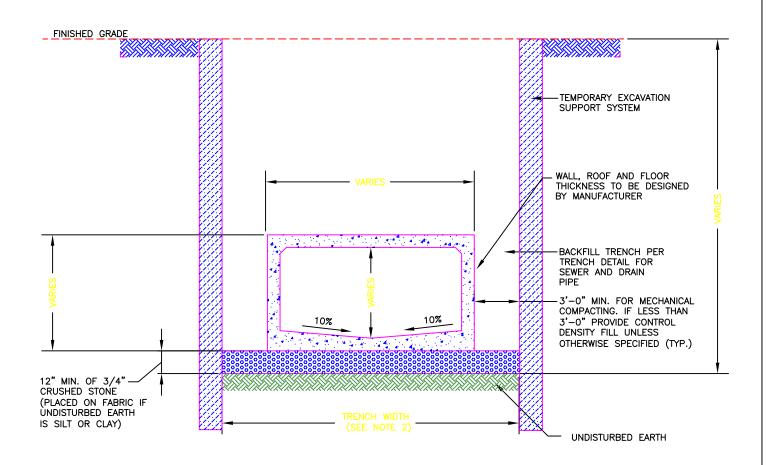
TEMPORARY SIDEWALK WATER TRENCH PATCH DETAIL - SECTION

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE 02/05 SPE

SPEC. SECTION REF#: 02524

2 🗆 2 🗆 10



- 1. PRECAST REINFORCED CONCRETE BUX SECTIONS MANUFACTURED IN ACCORDANCE WITH PRECAST REINFORCED CONCRETE BOX CULVERT. WATERTIGHT GASKET JOINTS TO BE PROVIDED AS SPECIFIED.

 2. TRENCH PAY LIMIT FOR BOX CULVERT IS OUTSIDE DIMENSION (WIDTH) PLUS 3' FOR TEMPORARY SUPPORT OF EXCAVATION PLUS SPACE BETWEEN CULVERT AND TEMPORARY SUPPORT OF EXCAVATION TO A MAXIMUM OF 6' TOTAL.



BOX CULVERT DETAIL - SECTION

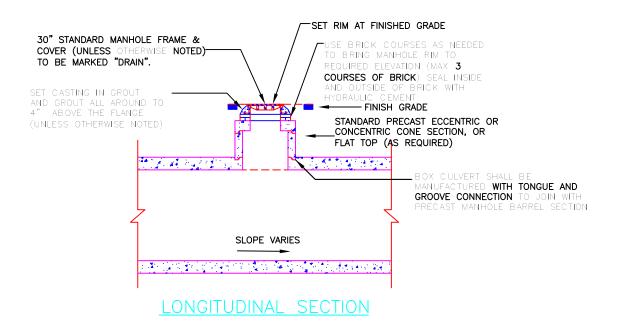
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

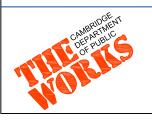
SCALE: N.T.S.

OF ISSUE:

02/05

SPEC. SECTION REF#: 02715



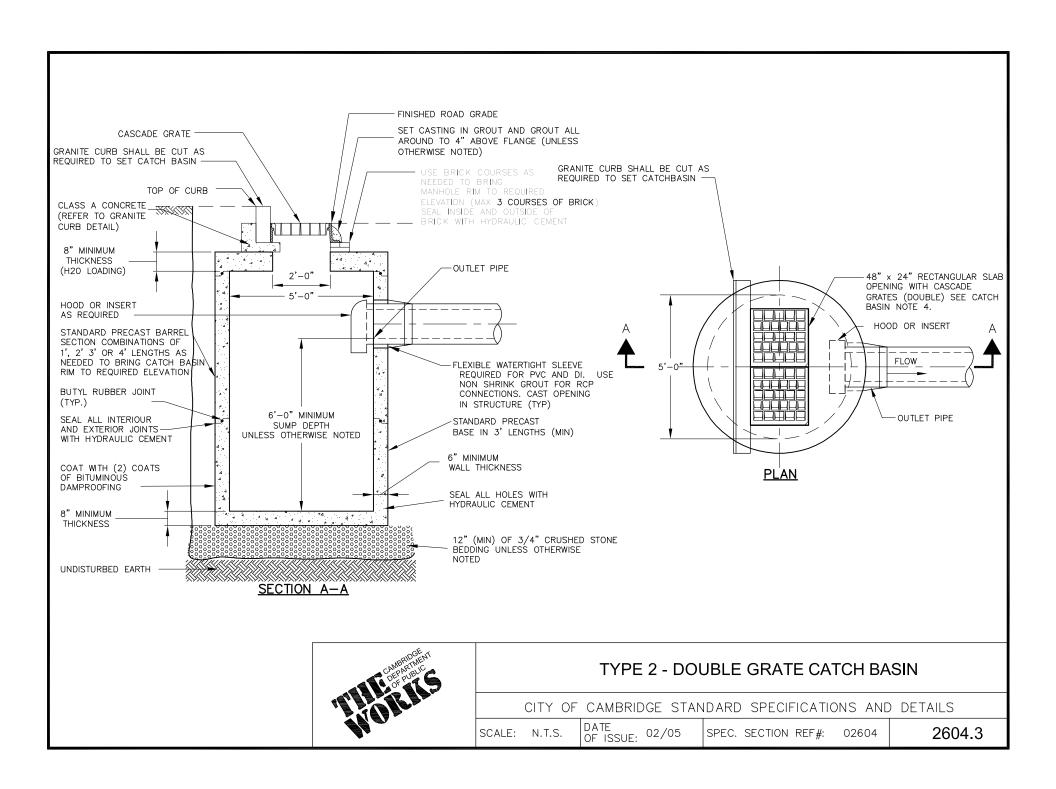


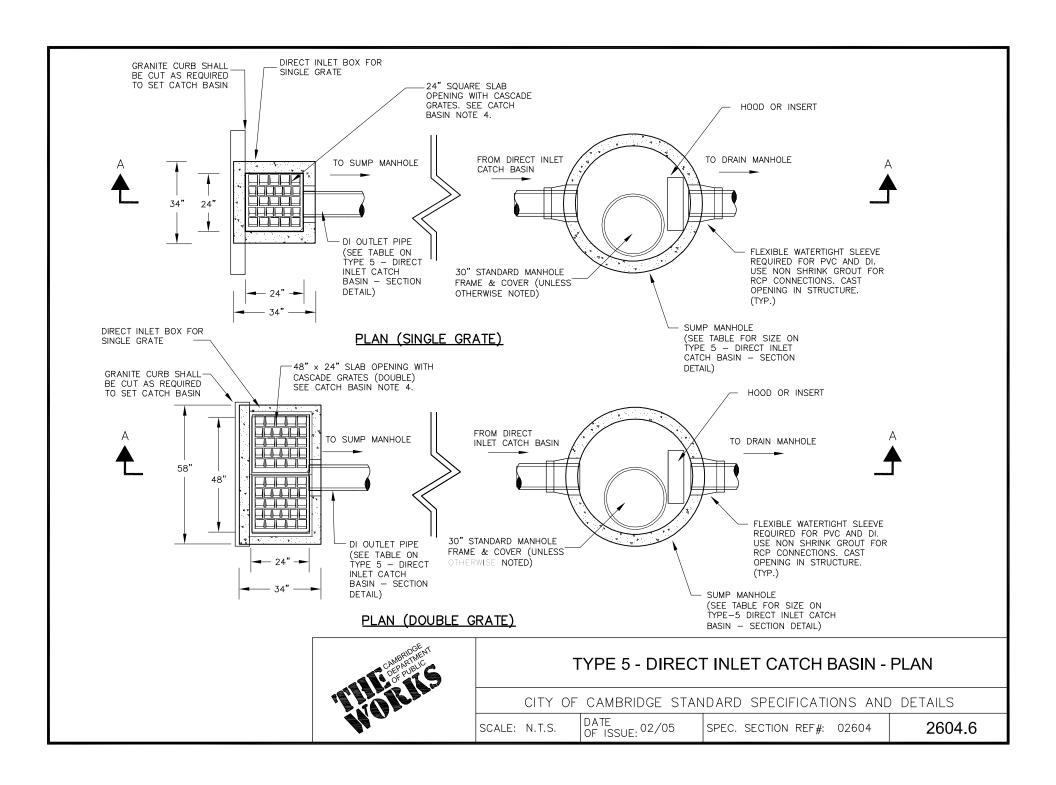
BOX CULVERT DETAIL - SECTION 2

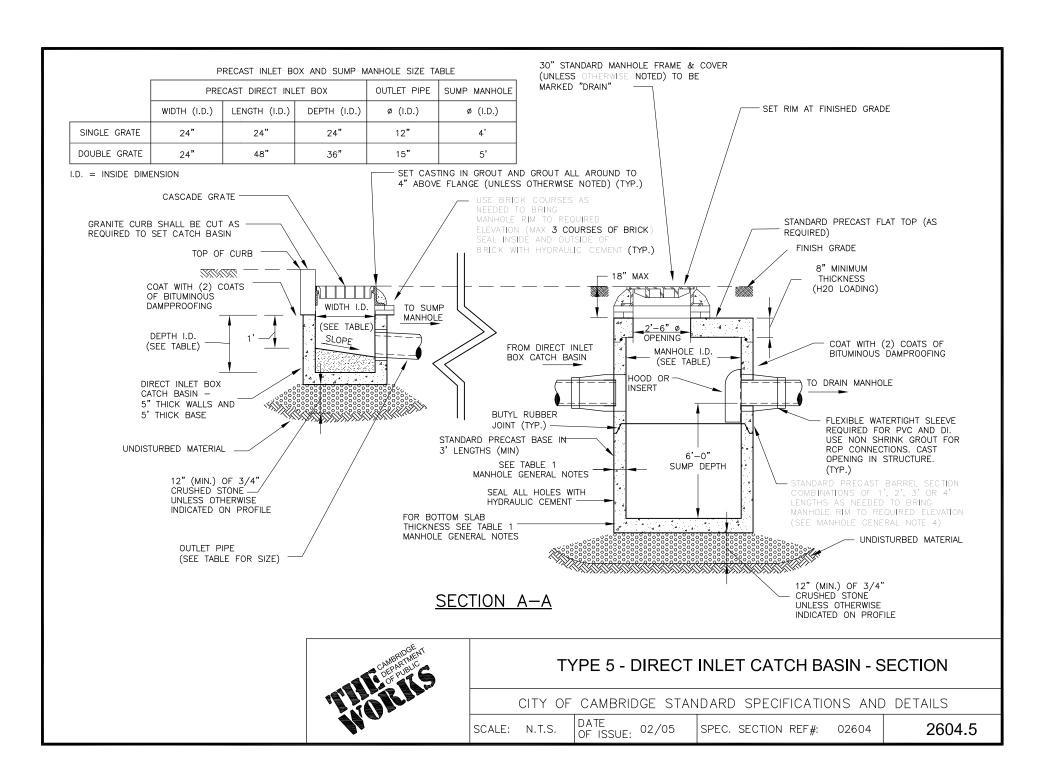
2715.2

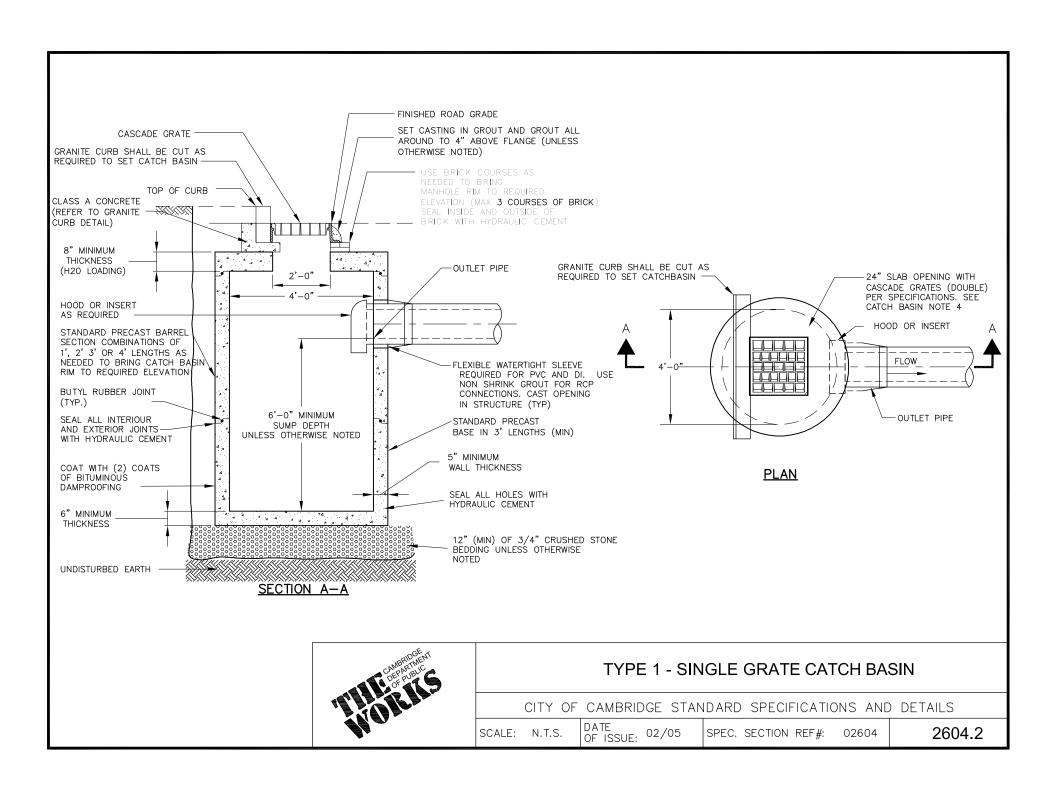
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

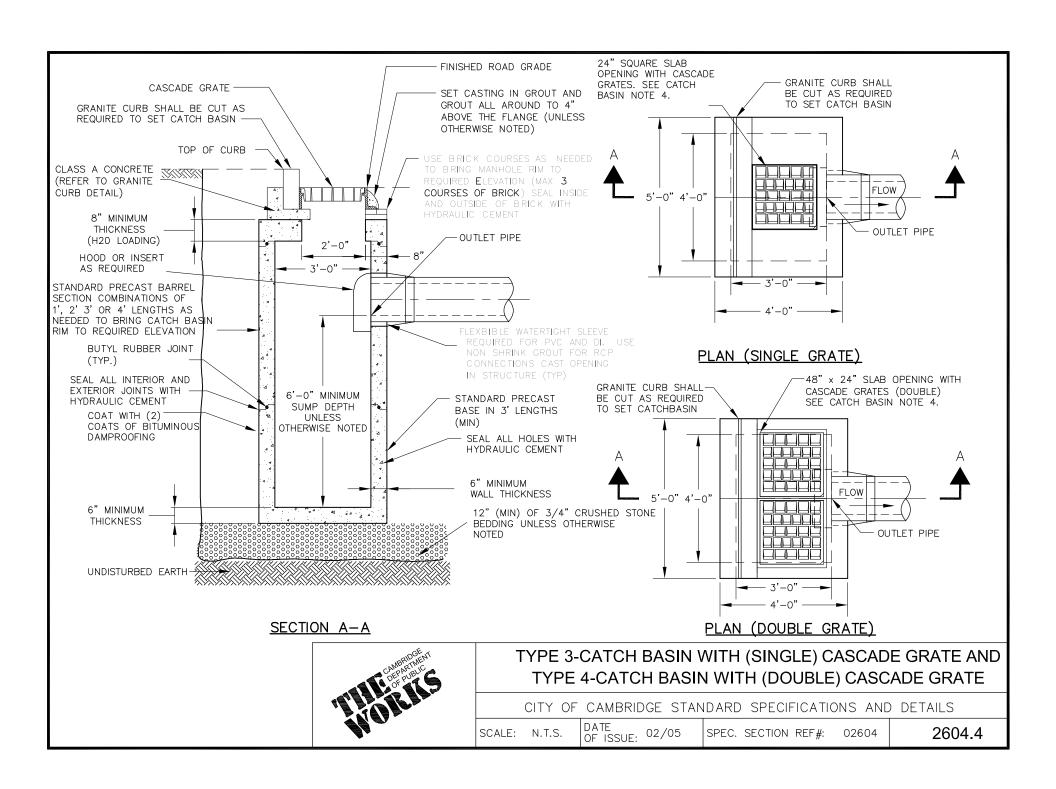
SCALE: N.T.S. DATE O2/05 SPEC. SECTION REF#: 02715

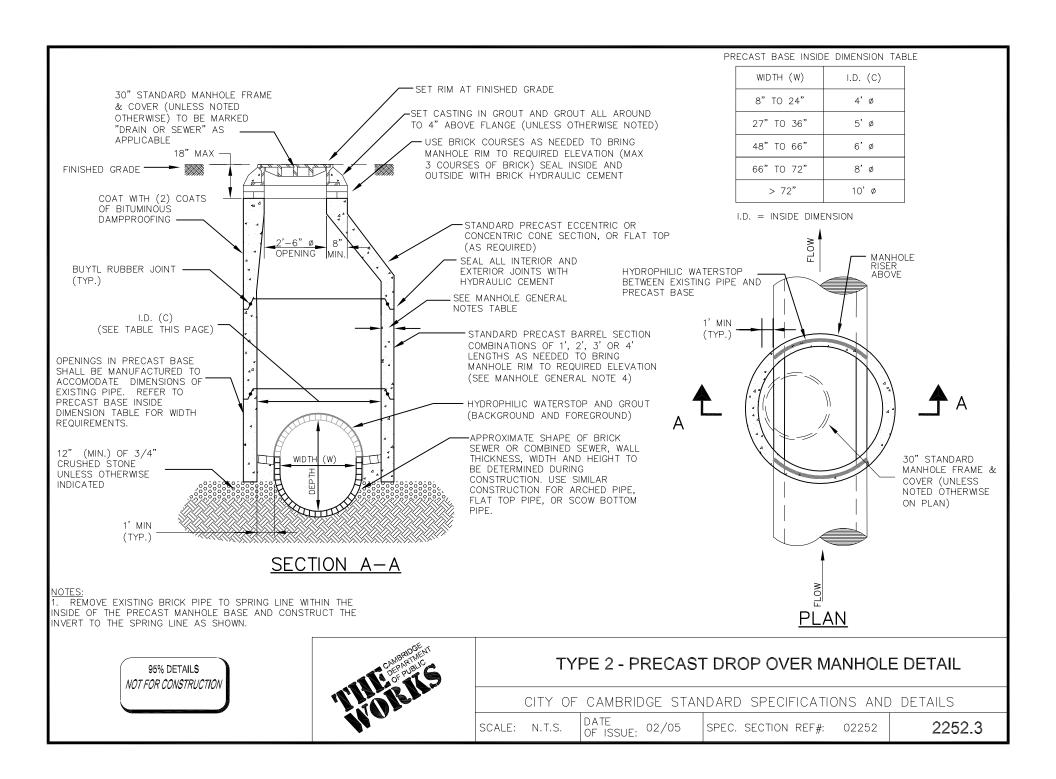


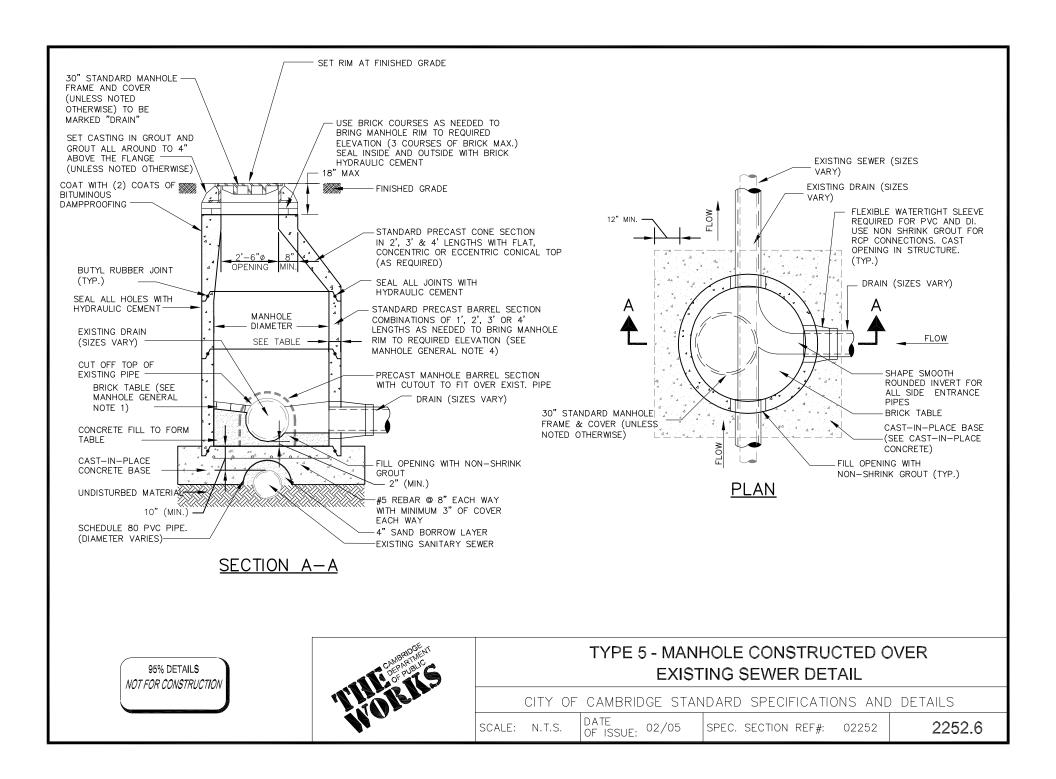


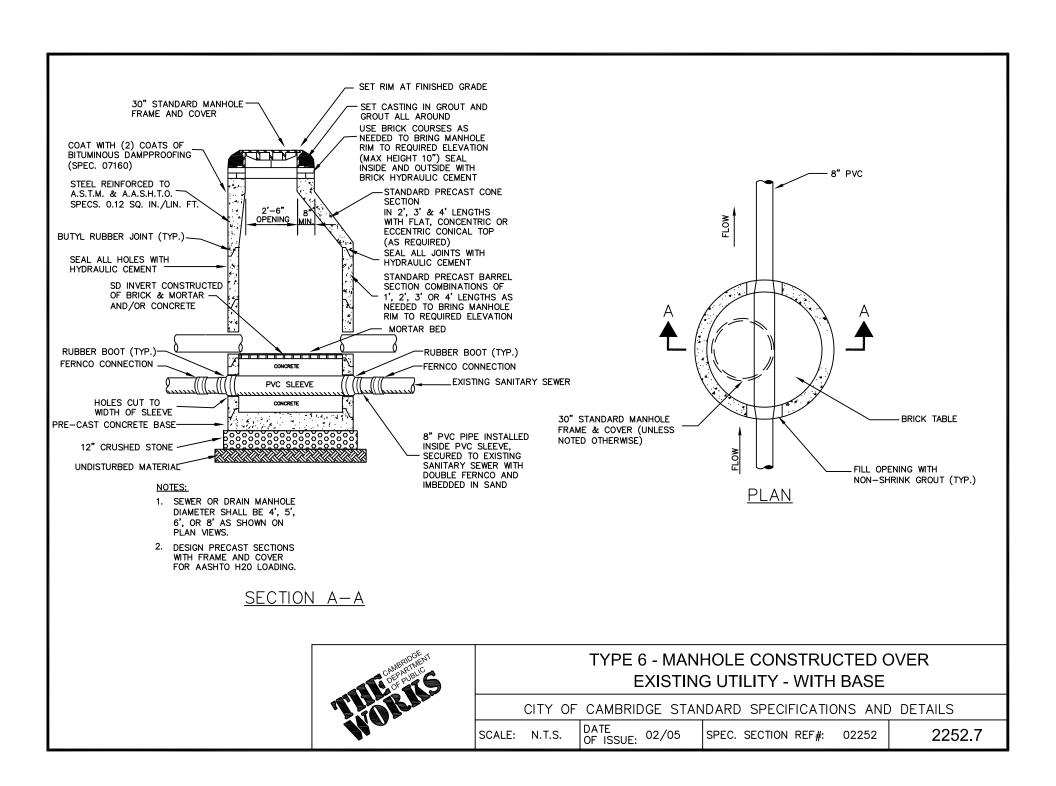


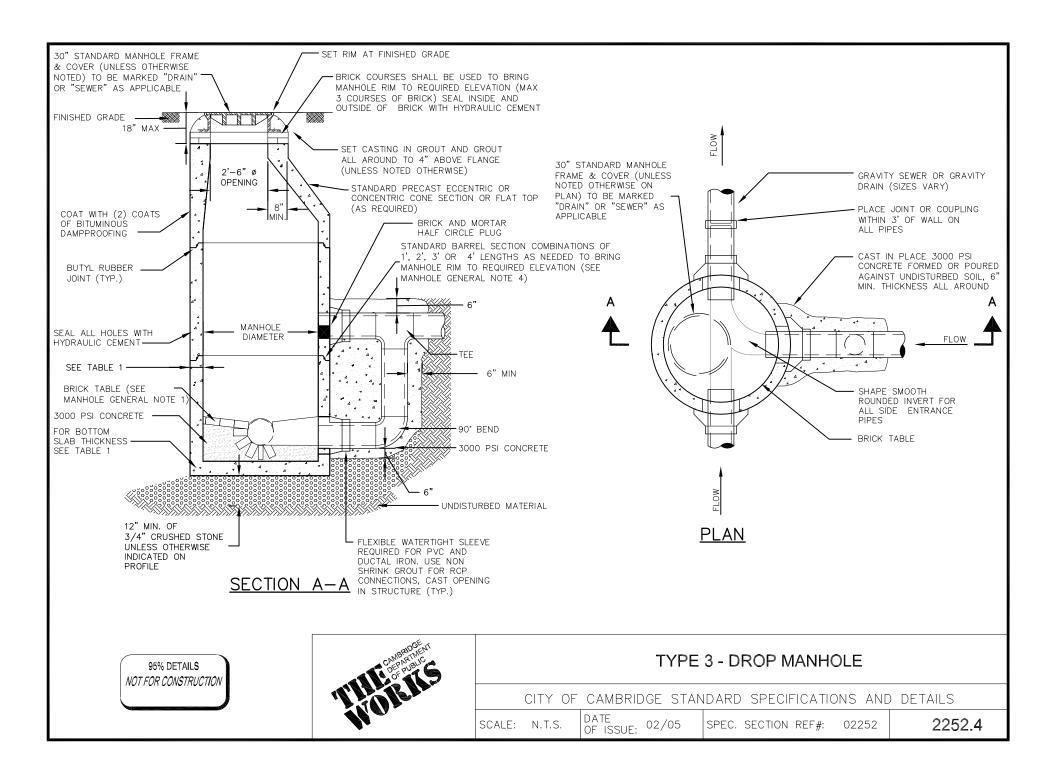












TADLE 1										
	TABLE 1									
MANHOLE DIAMETER	SIDE WALL MIN. THICKNESS	BOTTOM SLAB MIN. THICKNESS	MAX PIPE RCP	DIAMETER * DI/PVC						
4'	5"	6"	24"	30"						
5'	6"	8"	36"	42"						
6'	6"	8"	48"	54"						
8'	8"	8"	66"	72"						
10'	10"	10"	72"	84"						

^{*} MAY VARY DEPENDING ON SIZE AND LOCATION OF ADDITIONAL PENETRATIONS OR RELATIONSHIP OF PENETRATIONS IN MANHOLE

TRENCH PAY LIMIT TABLE FOR MANHOLES

WALL THICKNESS	MAX TRENCH WIDTH
LESS THAN 6"	I.D. + 5'-0"
6" TO 12"	I.D. + 6'-0"
13" TO 18"	I.D. + 7'-0"
19" & GREATER	O.D. + 6'-0"

I.D. = INSIDE DIMENSION O.D. = OUTSIDE DIMENSION

FOR TRENCHES GREATER THAN 5' DEEP ADD 3' FOR TEMPORARY SUPPORT OF EXCAVATION

MANHOLE GENERAL NOTES:

- 1. HIGHEST POINT OF BRICK TABLE AT MANHOLE WALL, TO BE AT ELEV OF CROWN OF PIPE. TABLE TO SLOPE AT 8.3%.
- 2. SEWER OR DRAIN MANHOLE DIAMETER SHALL BE 4', 5', 6', 8' OR 10' AS SHOWN ON PLAN/PROFILE VIEWS.
- 3. DESIGN PRECAST SECTIONS WITH FRAME AND COVER FOR AASHTO H20 LOADINGS. UNLESS OTHERWISE NOTED
- 4. MANHOLES LARGER THAN 4' IN DIAMETER AT THE BASE SHALL BE REDUCED IN DIAMETER TO 4' AT THE NEXT RISER SECTION UNLESS NOTED OTHERWISE ON PLANS.

95% DETAILS NOT FOR CONSTRUCTION



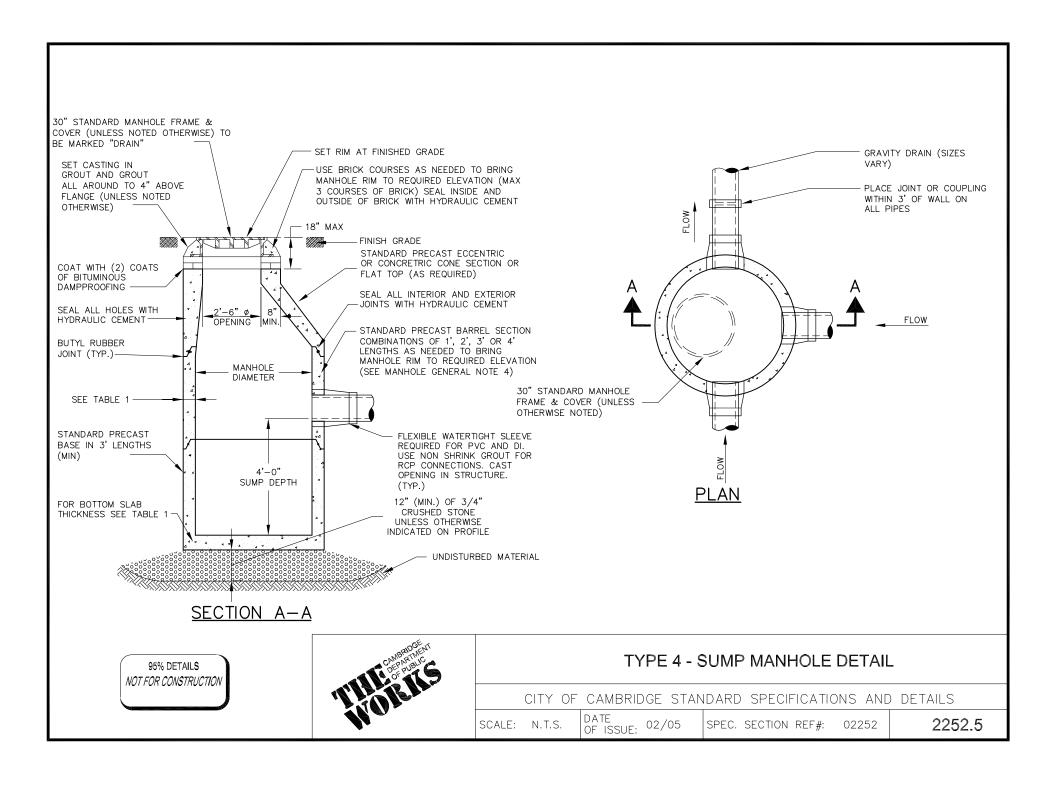
MANHOLES - GENERAL NOTES AND DIMENSIONS

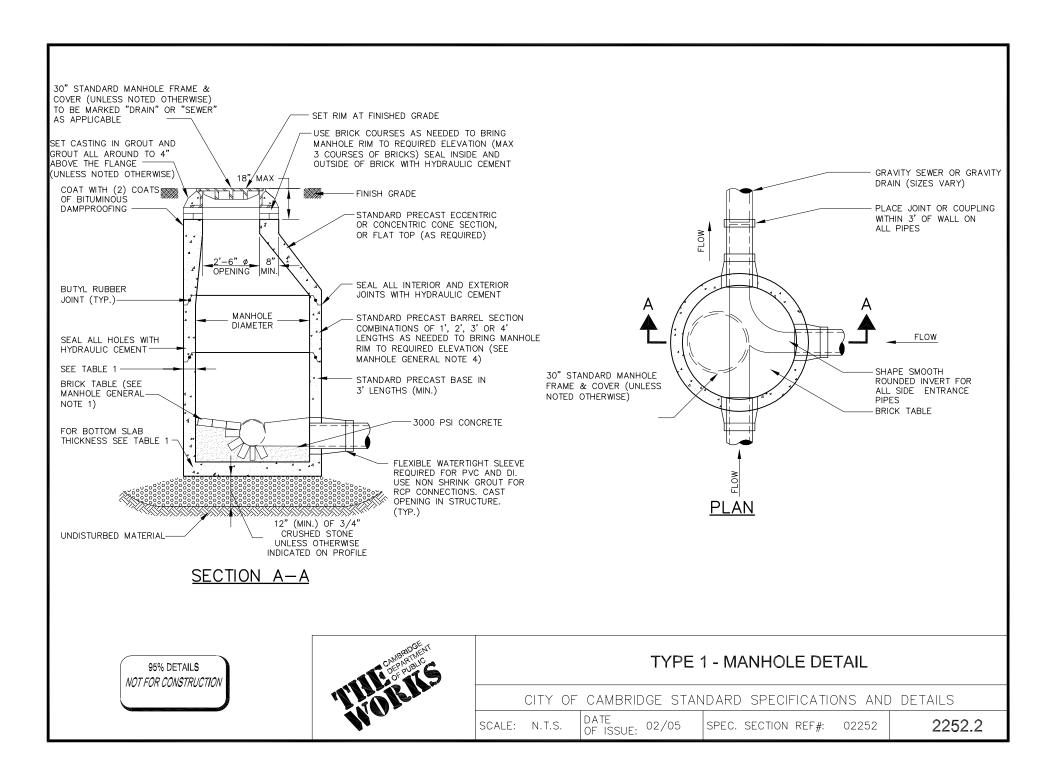
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE

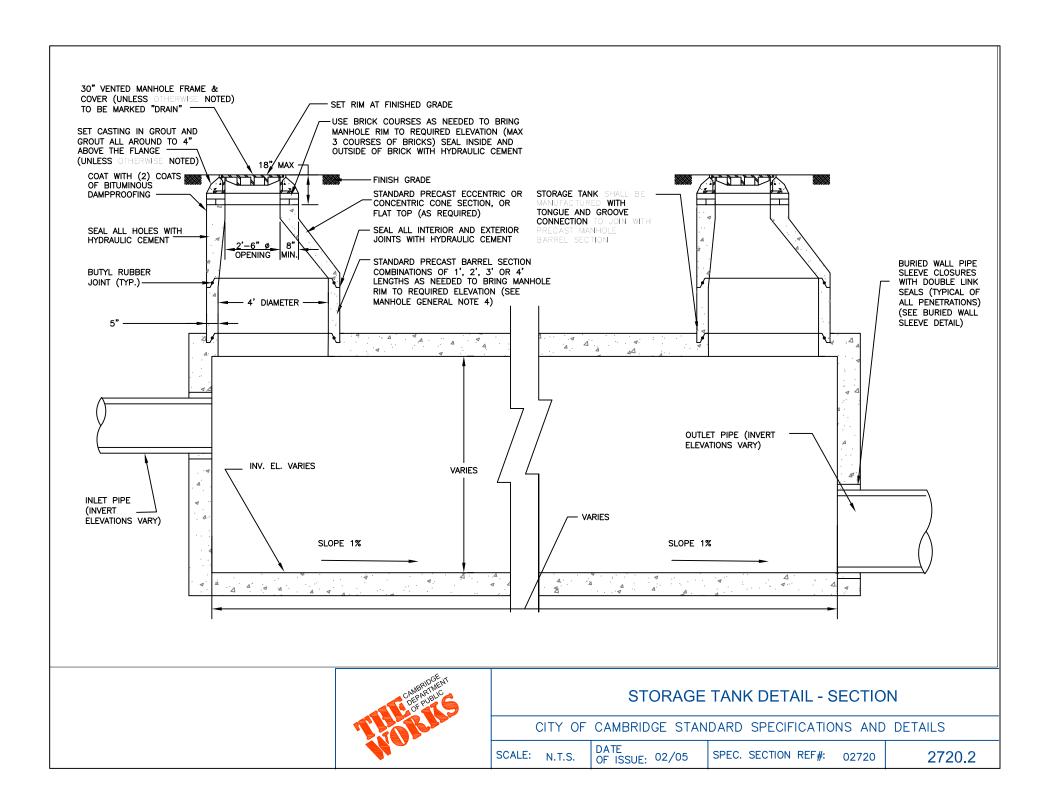
OF ISSUE: 02/05

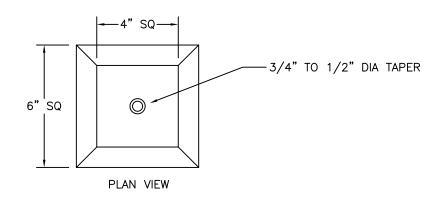
SPEC. SECTION REF#: 02252

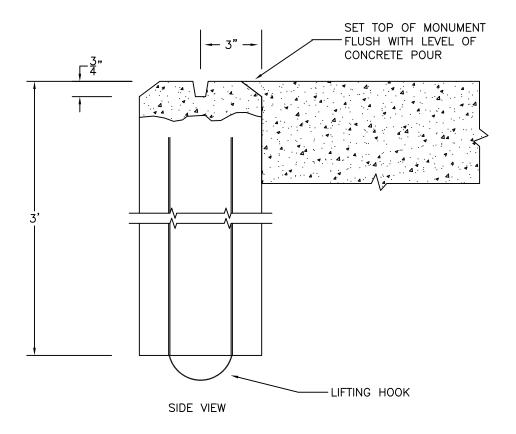




1. PRECAST REINFORCED CONCRETE BOX SECTIONS MANUFACTURED IN ACCORDANCE WITH PRECAST REINFORCED STORAGE TANK. WATERTIGHT GASKET JULINIS TO BE PROVIDED AS SPECIFIED. 2. TRENCH PAY LIMIT FOR STORAGE TANK IS OUTSIDE DIMENSION (WIDTH) PLUS 3' FOR TEMPORARY SUPPORT OF EXCAVATION PLUS SPACE BETWEEN CULVERT AND TEMPORARY SUPPORT OF EXCAVATION TO A MAXIMUM OF 6' TOTAL. 3. STORAGE TANK WALL, ROOF AND SLAB THICKNESS TO BE DESIGNED BY THE MANUFACTURER 4. FLOATATION SLABS TO BE DESIGNED AND SPECIFIED BY THE MANUFACTURER TEMPORARY EXCAVATION **VARIES** SUPPORT SYSTEM WIDTH I.D. VARIES INLET AND OUTLET PIPE (SIZE AND IVERT VARIES) 3'-0" MIN. FOR MECHANICAL COMPACTING. IF LESS THAN 3'-0" PROVIDE CONTROL DENSITY FILL UNLESS OTHERWISE SPECIFIED (TYP.) 10% 10% 12" MIN. OF 3/4" CRUSHED STONE (PLACED ON FABRIC IF TRENCH WIDTH ÙNDISTURBED EARTH (SEE NOTE 2) IS SILT OR CLAY) UNDISTURBED EARTH STORAGE TANK DETAIL - SECTION CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS 2720.2 SCALE: N.T.S. OF ISSUE: 02/05 SPEC. SECTION REF#: 02720







NOTES:

1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS

SHEA CONCRETE PRODUCTS

WWW.SHEACONCRETE.COM | 1-800-696-7432

MISCELLANEOUS PRODUCTS - BOUNDARY MARKERS

PRODUCT ID BM6-	-3 WEIGHT (LBS)=110#
PRODUCT ID BM6-	-4 WEIGHT (LBS)=147#



SURVEY MONUMENT - PLAN AND SIDE VIEWS

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

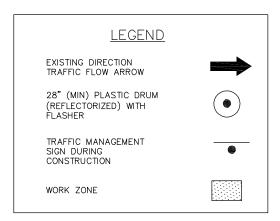
SCALE: N.T.S.

DATE OF ISSUE: 12/2019

SPEC. SECTION REF#:

TRAFFIC MANAGEMENT GENERAL NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D)
- 2. ALL SIGN LOCATIONS ON DETAILS ARE SHOWN SCHEMATICALLY. FINAL LOCATIONS SHALL BE DETERMINED BASED ON ACTUAL FIELD CONDITIONS AND CITY APPROVAL
- 3. ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE PROVIDED UPON THE CITY'S REQUEST
- 4. ALL TEMPORARY SIGNAGE AND TRAFFIC CONTROL DEVICES SHALL BE PROPERLY SECURED
- 5. ALL DRUMS NOT OTHERWISE SPECIFIED SHALL BE EQUIPPED WITH TYPE "C" -STEADY BURN WARNING LIGHTS
- 6. TEMPORARY TRAFFIC LANES WITHIN THE WORK ZONE SHALL BE A MINIMUM OF 11 FEET
- 7 ADVISORY SPEED LIMITS SHALL BE POSTED AS DIRECTED BY THE CITY
- 8. FLASHING ARROW BOARDS SHALL BE UTILIZED FOR LANE SHIFTS WHERE THE EXISTING SPEED LIMIT IS 35 M.P.H. OR GREATER
- 9. NON-ESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING NON-WORK HOURS
- 10. ALL TRAVEL WAYS SHALL BE PROTECTED FROM DUST AND CONSTRUCTION DEBRIS AT ALL TIMES
- 11. TRAFFIC CONTROL INCLUDES NECESSARY STREET SWEEPING AND SNOW REMOVAL WITHIN THE WORK ZONE
- 12. VEHICULAR AND PEDESTRIAN SHALL BE ALLOWED ACCESS TO PRIVATE PROPERTY AT ALL TIMES DURING CONSTRUCTION
- 13. ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES.
 WORK MAY REQUIRE ADDITIONAL SIGNAGE AND OTHER TRAFFIC CONTROL DEVICES, GRADING AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN, VEHICULAR AND EMERGENCY TRAFFIC THROUGH WORK AREAS BOTH DURING AND AFTER WORK HOURS
- 14. EACH ABUTTER SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS
- 15. CONSTRUCTION WORK ZONE SHALL BE STAGED AS TO ALLOW FOR CONTINUOUS ACCESS AT DRIVE ENTRANCES AND TO MINIMIZE DETOURS TO CAMBRIDGE ROADS
- 16. EXCAVATIONS SHALL BE PROTECTED BY STEEL PLATES OR BARRICADES DURING NON-WORK HOURS
- 17. GRADE SEPARATIONS IN EXCESS OF 2" DURING NON WORKING HOURS WILL REQUIRE DELINEATION BY DRUMS
- 18. EXCAVATION EDGES IN EXCESS OF 4" DEEP SHALL BE PROTECTED DURING NON-WORKING HOURS BY BACKFILLING WITH A WEDGE OF GRAVEL COMPACTED TO A 4:1 SLOPE
- 19. SAFE PEDESTRIAN WALKWAYS SHALL BE PROVIDED AND ACCESS TO LOCAL BUSINESSES AND RESIDENCES. PUBLIC WALKWAYS SHALL REMAIN OPEN AND ACCESSIBLE UNLESS OTHERWISE DIRECTED BY CITY.
- 20. ALL EXISTING PEDESTRIAN CROSSINGS SHALL BE MAINTAINED. ALTERNATIVE CROSSING SHALL BE PROVIDED WHEN EXISTING CROSSINGS ARE DISRUPTED BY CONSTRUCTION ACTIVITY. TEMPORARY LOCATIONS, SAFETY SIGNAGE AND SAFETY CONTROLS SHALL BE APPROVED BY THE CITY PRIOR TO IMPLEMENTATION
- 21. PEDESTRIAN WALKWAYS SHALL BE PROTECTED ALONG WORK ZONE WITH CONCRETE BARRIERS AND FENCING
- 22. POLICE DETAILS SHALL BE SCHEDULED AND COORDINATED BY THE CONTRACTOR TO MAINTAIN THE SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC
- 23. DETOURS TO SHALL ONLY BE ALLOWED AS INDICATED OR AS APPROVED BY THE CITY OF CAMBRIDGE TRAFFIC AND PARKING DEPARTMENT

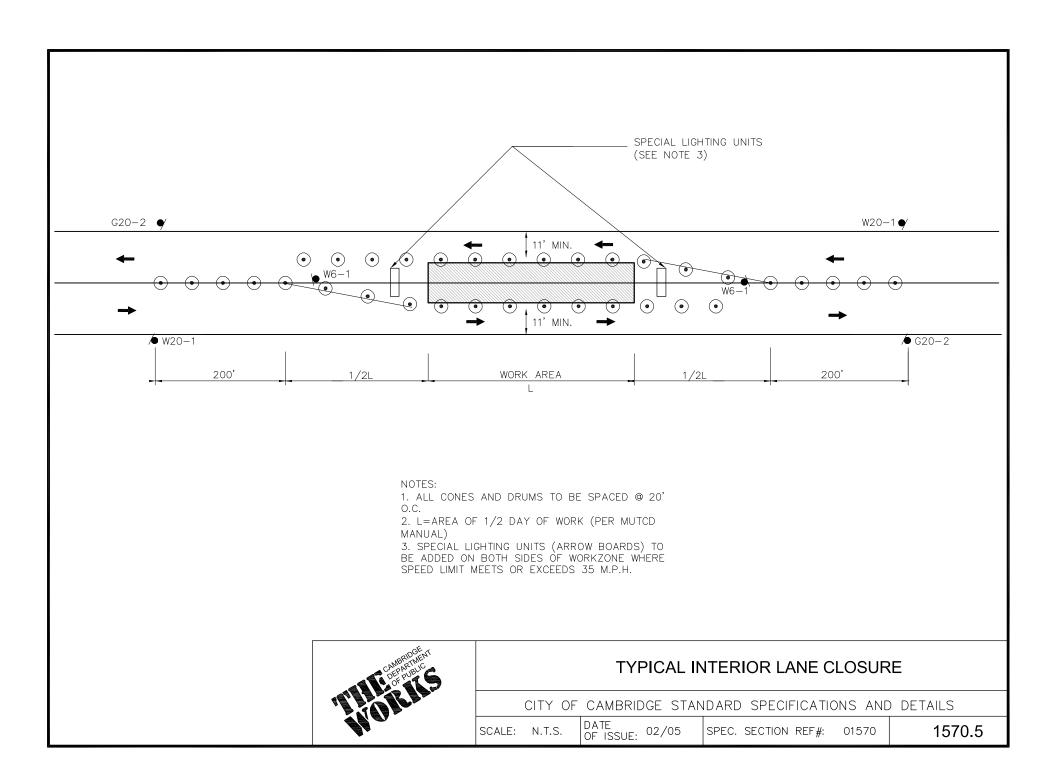


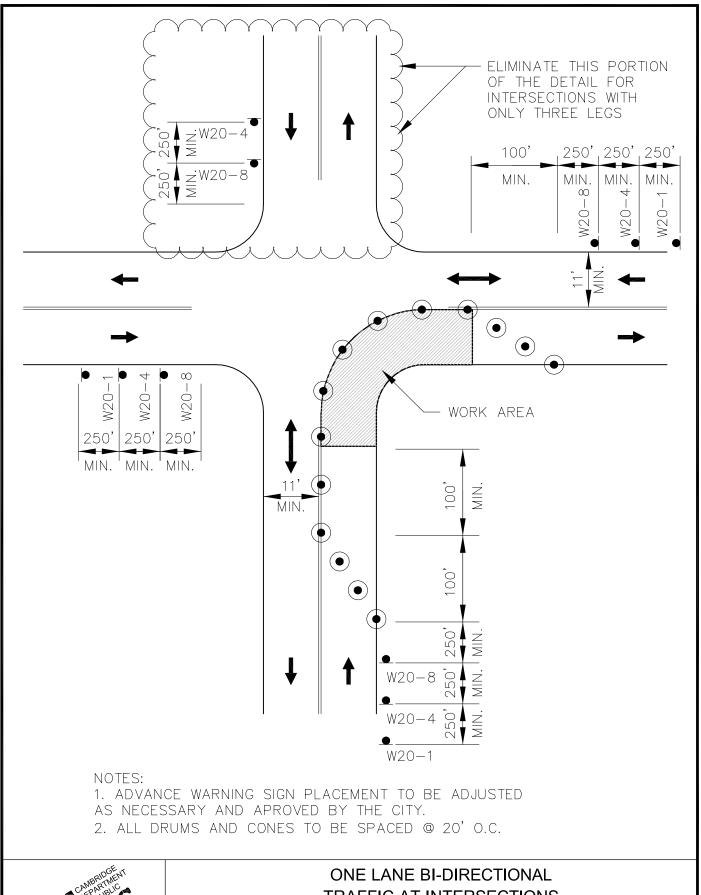


TRAFFIC MANAGEMENT GENERAL NOTES AND LEGEND

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE O2/05 SPEC. SECTION REF#: 01570 1570.1





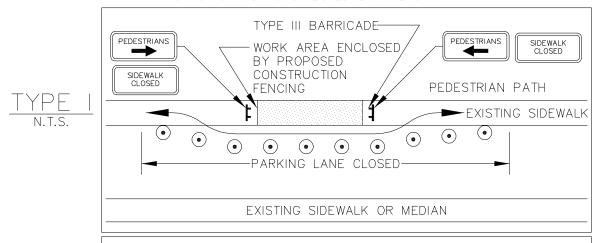


TRAFFIC AT INTERSECTIONS

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

DATE OF ISSUE: 02/05 SPEC. SECTION REF#: 01570 1570.7 SCALE: N.T.S.

TO BE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING AND AS DIRECTED BY THE CITY.



TYPE III BARRICADE-

BY PROPOSED CONSTRUCTION FENCING

•

CROSSWALKS -

TEMPORARY PAINTED

-PEDESTRIAN PATH

•

WORK AREA ENCLOSED

(•)

TYPE II
N.T.S.

PEDESTRIANS

PARKING LANE

(BOTH SIDES)

- CLOSED

TEMPORARY BITUMINOUS_
CONCRETE WHEEL CHAIR
RAMP. WIDTH AND
LENGTH PER ADA
REQUIREMNETS BUT
SHALL NOT INTRUDE
INTO TRAVEL WAY

PEDESTRIAN BYPASS NOTES:

•)

 (\bullet)

1. ADDITIONAL ADVANCE WARNING MAY BE REQUIRED BY THE CITY.

PEDESTRIANS

PARKING LANE

(BOTH SIDES)

ÉXISTING SIDEWALK OR MEDIAN

CLOSED-

10

SIDEWALK CLOSED

EXISTING SIDEWALK

- 2. CONTROLS FOR PEDESTRIAN TRAFFIC ONLY, ARE SHOWN. VEHICULAR TRAFFIC SHALL BE MAINTAINED AS DETAILED ELSEWHERE.
- 3. STREET LIGHTING SHALL BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
- 4. EXISTING WHEELCHAIR RAMPS SHALL BE CONSIDERED WHEN LOCATING TEMPORARY PAINTED CROSSWALKS.
- 6. IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, TEMPORARY CROSSWALKS WITH APPROPRIATE SIGNS SHALL BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AS SHOWN IN PEDESTRIAN BYPASS TYPE II, AND AS DIRECTED BY THE ENGINEER.



PEDSTRIAN BYPASS DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE O2/05 SPEC. SECTION REF#: 01570 1570.8

CONSTRUCTION SIGN LEGEND

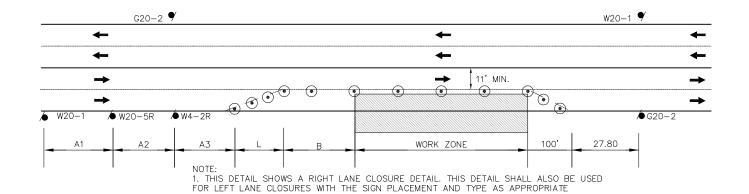
IDENTIFICATION	SIZE	OF SIGN		TEXT DIMENSIONS		COLOR			
NUMBER	WIDTH	HEIGHT	TEXT	LETTER HEIGHT	VERTICAL SPACING	ARROW	BACK- GROUND	LEGEND	BORDER
G20-2	36"	24"	END ROAD WORK	MUTCD STANDARD DETAIL		MUTCD STANDARD DETAIL			
W1 – 4L	30"	30"	1>						
W1-4R	30"	30"	(1)						
W4-2L	48"	48"	(II)						
W4-2R	48"	48"	(IS)						
W5-1	48"	48"	ROAD						
W6-1	48"	48"	47						
W20-1	36"	36"	ROAD WORK AHEAD						
W20-4	48"	48"	ONE LANE ROAD AHEAD						
W20-5L	48"	48"	LEFT LANE Q.OSED AMEAD						
W20-5R	48"	48"	RICHT LANE Q.OSED AVEAD						
W20-7b	36"	36"	BE_PREPARED TO STOP						
W20-8	36"	36"	POLICE OFFICER AHEAD						



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CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE O2/05 SPEC. SECTION REF#: 01570 1570.2



SPEED LIMIT	SPACING FOR ADVANCE	CHANNELIZING DEVICES					
(1411 117)	WARNING SIGNS (A1/A2/A3)	TRANSITION LENGTH (L)	BUFFER LENGTH (B)	DEVICE SPACING	MIN. #		
25-40	500/500/500	320	160	20	30		
45-55	500/1000/1000	680	360	40	30		



TYPICAL ONE LANE CLOSURE

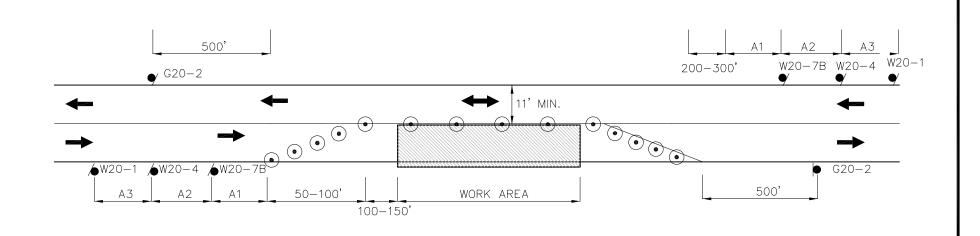
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 01570

1570.3



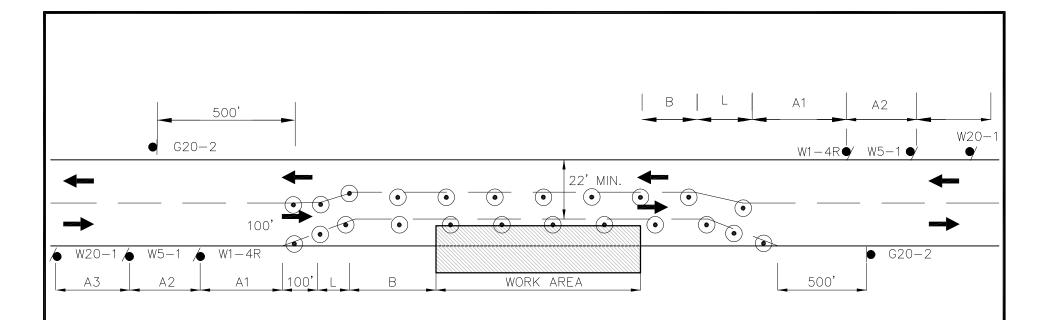
SPEED LIMIT (MPH)	SPACING FOR ADVANCE	CHANNELIZING DEVICES		
(WIT TT)	WARNING SIGNS (A1/A2/A3)	DEVICE SPACING	MIN. #	
25-40	500/500/500	20	20	
45-55	500/1000/1000	40	20	



TYPICAL TWO WAY ALTERNATING TRAFFIC

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE OF ISSUE: 02/05 SPEC. SECTION REF#: 01570 1570.6



NOTES:

1. THIS DETAIL SHOWS A RIGHT LANE CLOSURE DETAIL. THIS DETAIL CAN ALSO BE USED FOR LEFT LANE CLOSURES, WITH SIGN PLACEMENT AND TYPE AS APPROPRIATE.

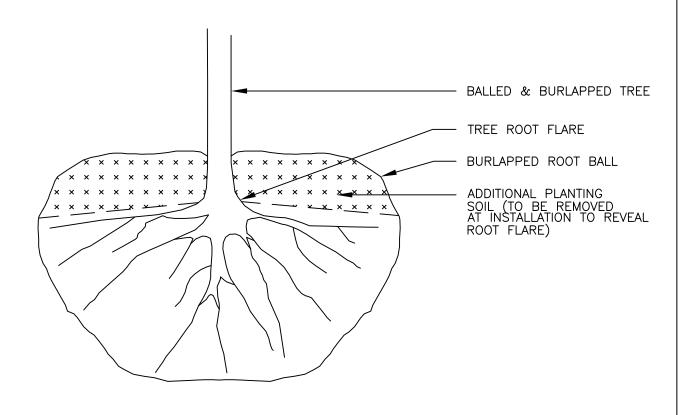
SPEED LIMIT (MPH)	SPACING FOR ADVANCE	CHANNELIZING DEVICES				
(1117)	WARNING SIGNS (A1/A2/A3)	TRANSITION LENGTH (L)	BUFFER LENGTH (B)	DEVICE SPACING	MIN. #	
25-40	500/500/500	320	160	20	90	
45-55	500/1000/1000	680	360	40	90	



TYPICAL TWO-WAY STREET LANE SHIFT

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE OF ISSUE: 02/05 SPEC. SECTION REF#: 01570.4



NOTE: TREE TO BE PLANTED WITH EXPOSED ROOT FLARE 1"-3" ABOVE FINISHED GRADE AT CURB



LOCATING THE ROOT FLARE

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: NTS DATE JANUARY OF ISSUE: 2022

SPEC. SECTION REF#: 02910

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