

95% DETAILS NOT FOR CONSTRUCTION



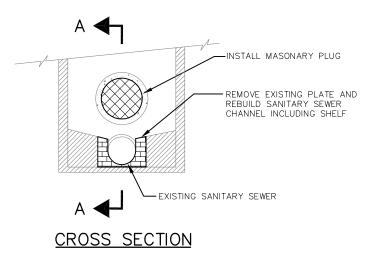
COMMON MANHOLE SEPARATION - TYPE 2 COMMON MANHOLE CONVERTED TO DRAIN MANHOLE DETAIL

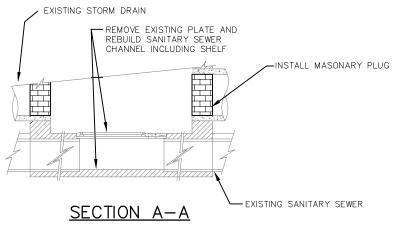
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02252





95% DETAILS NOT FOR CONSTRUCTION



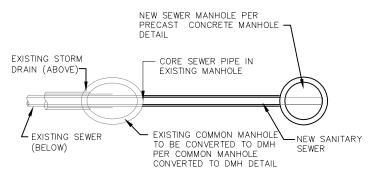
COMMON MANHOLE SEPARATION - TYPE 5 COMMON MANHOLE CONVERTED TO SEWER MANHOLE DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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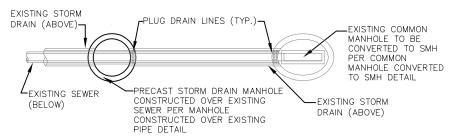


PLAN END OF LINE COMMON MANHOLE TO BE CONVERTED TO DMH DETAIL

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



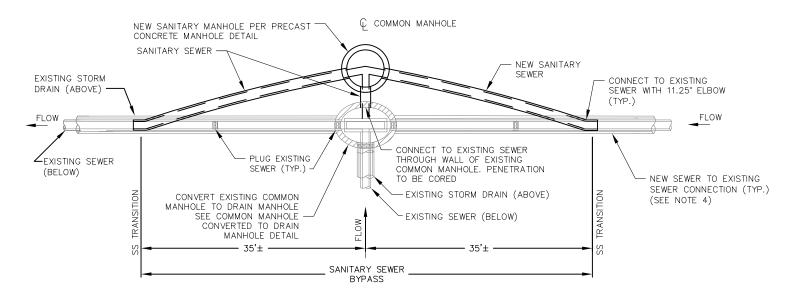
COMMON MANHOLE SEPARATION - TYPE 1 END OF LINE CONVERSIONS

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

OF ISSUE: 02/05

SPEC. SECTION REF#: 02252



NOTES:

- 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



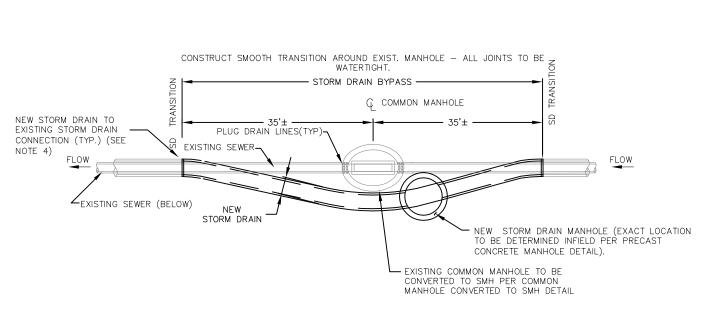
COMMON MANHOLE SEPARATION - TYPE 4 SANITARY SEWER BYPASS (WITH LATERAL)

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

OF ISSUE: 02/05

SPEC. SECTION REF#: 02252



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.
- 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

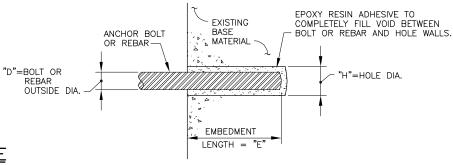
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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OF ISSUE: 02/05

SPEC. SECTION REF#: 02252

	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:

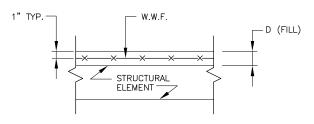
- DRILL HOLES, CLEAN OUT AND INSTALL EPOXY AND BOLT OR REBAR IN STRICT CONFORMANCE WITH EPOXY MANUFACTURER'S WRITTEN RECOMMENDATIONS. REFER TO CAST IN PLACE CONCRETE FOR EPOXY REQUIREMENTS.
- 2. UNLESS OTHERWISE INDICATED ON DRAWINGS, PROVIDE THE EMBEDMENT LENGTH AND HOLE DIAMETER INDICATED IN THE SCHEDULE 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 OF ISSUE: 02/05 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				



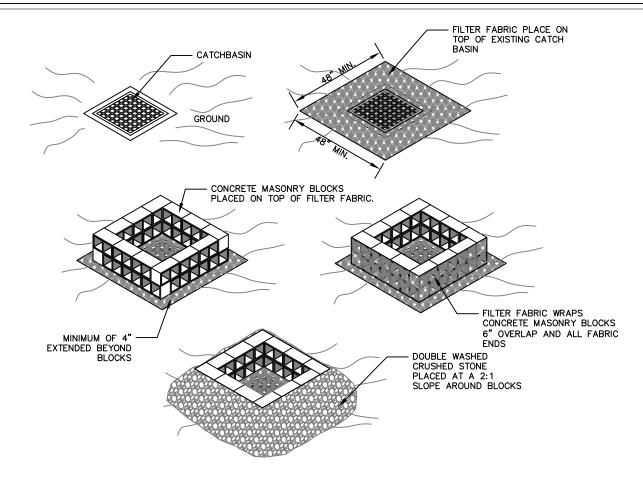
TYPICAL WELDED WIRE FABRIC FOR CONCRETE FILL DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 03300



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

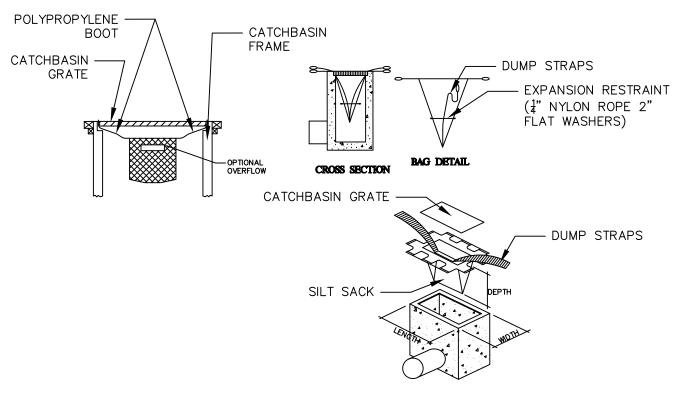


INLET PROTECTION 1

SPEC. SECTION REF#:

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

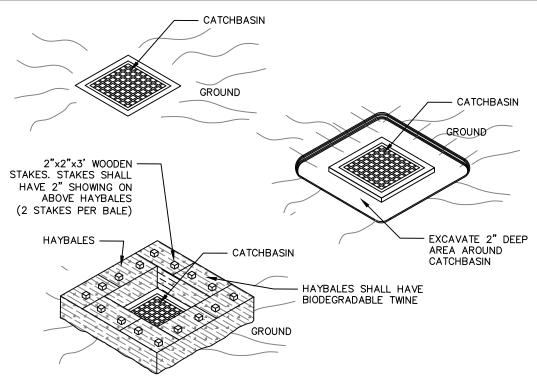


INLET PROTECTION 2

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

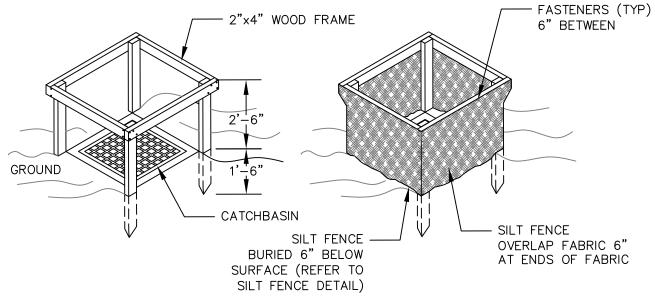


INLET PROTECTION 3

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE OF ISSUE:

_{-.} 07/09 SPEC



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

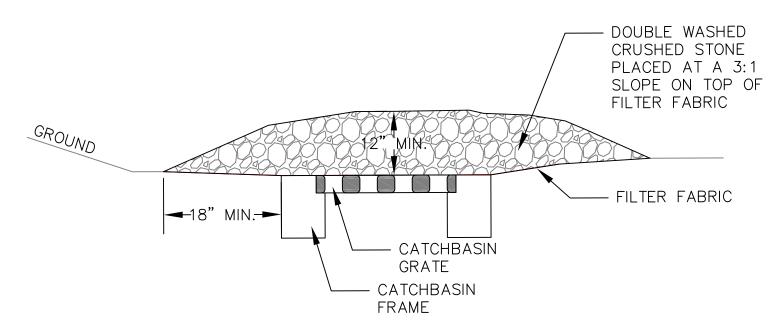


INLET PROTECTION 4

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

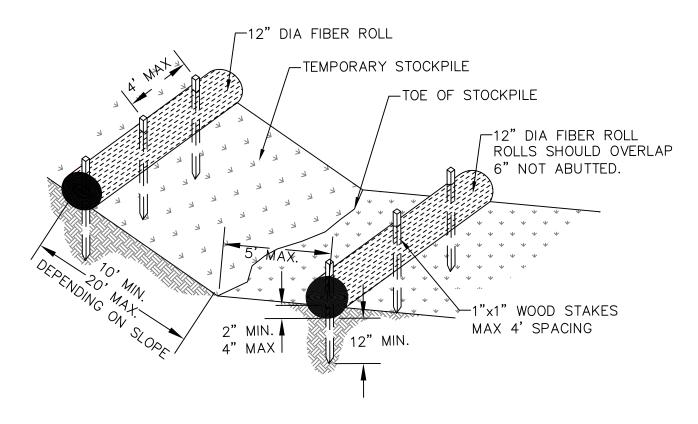


INLET PROTECTION 5

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.
- MINIMIZE SOIL EROSION AND CONTROL SEDIMENTATION DURING CONSTRUCTION.
- 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).
- 9. 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 1/4 TO 1/2 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 1/4 TO 1/2 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
- 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..

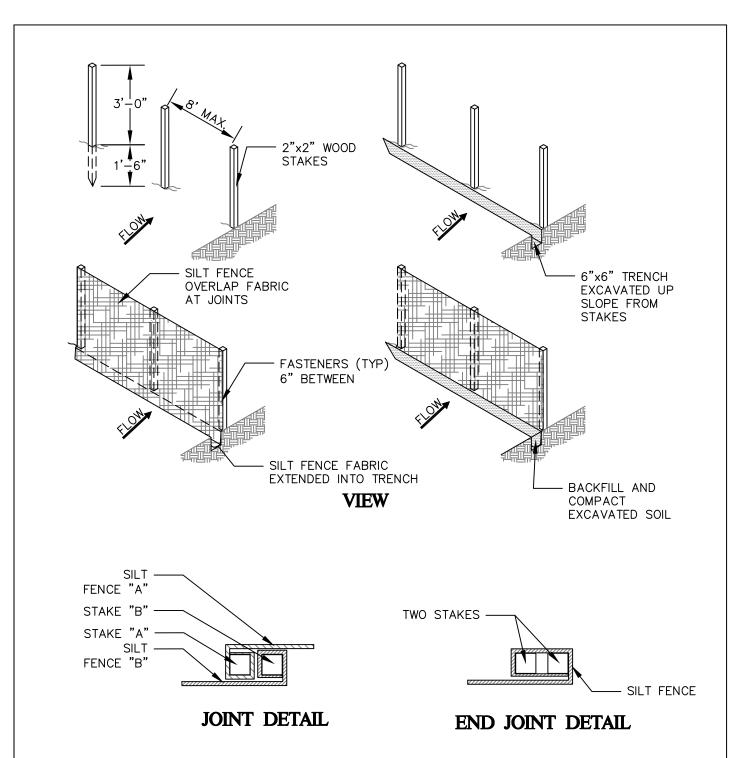


EROSION AND SEDIMENT CONTROL GENERAL NOTES

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N/A OF ISSUE:

DATE 07/09



INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT

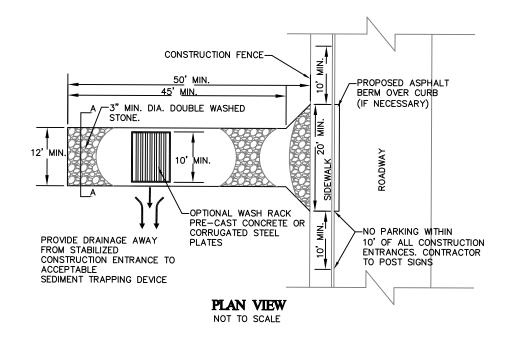
MAINTENANCE SHALL OCCUR WHEN NECESSARY. SILT FENCE SHALL BE REPLACE EVERY 6 MONTHS AND STACKS SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY. SILT FENCE SHALL BE INSPECTED WEEKLY AND ALL MAINTENANCE ISSUES SHALL BE CORRECT AT THAT TIME.



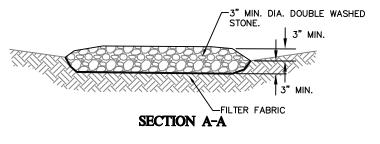
SILT FENCE

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.



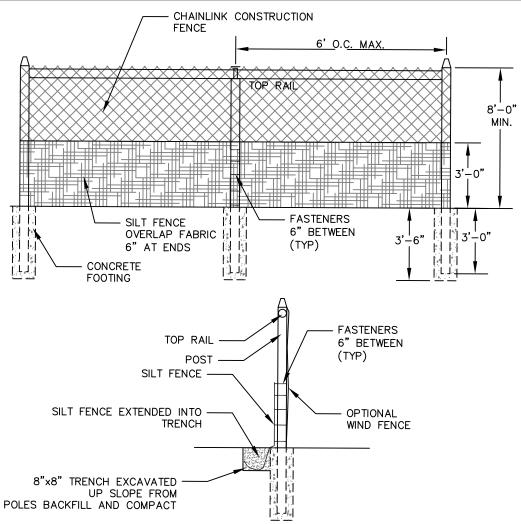


STABILIZED CONSTRUCTION ENTRANCE

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE

DATE 07/09 SPEC. SECTION REF#:



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.

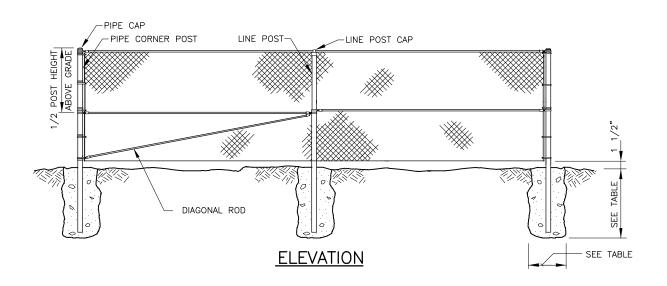


SUPER SILT FENCE

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"

NOTES:

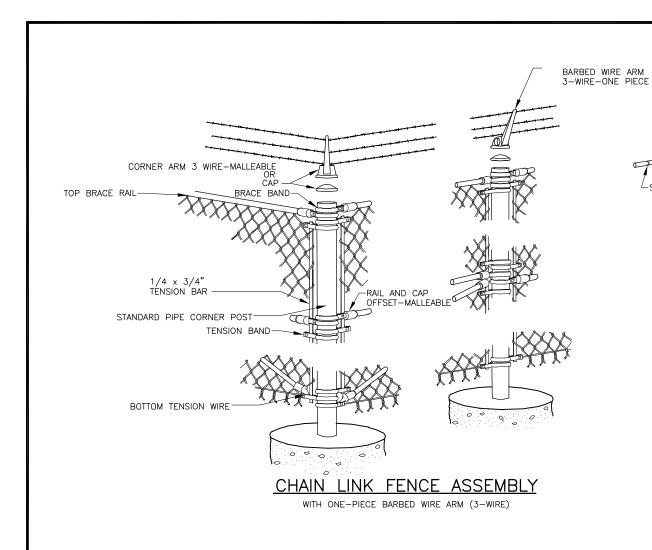
- 1. POST SPACING: LINE POSTS SHALL BE EVENLY SPACED, CENTER TO CENTER.
- 2. BARBED WIRE ARM WHERE REQUIRED SHALL BE PER CHAIN LINK FENCES AND GATES, AND CHAIN LINK FENCE
- 3. POST FOOTING SHALL HAVE A 1" CROWN FINISH
- 4. SEE CHAIN LINK FENCE DETAIL 2 FOR CHAIN LINK FENCE ASSEMBLY, ALTERNATE POSTS,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

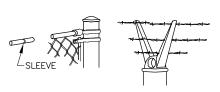


CHAIN LINK FENCE DETAIL 1

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

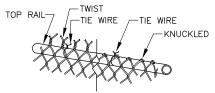
SCALE: N.T.S. DATE OF ISSUE: 02/05 SPEC. SECTION REF#: 02830 2830.1



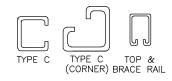


ONE-PIECE (6-WIRE)

BARBED WIRE ARM



FABRIC SELVAGE



<u>ALTERNATE POSTS</u>

SEE CHAIN LINK FENCES AND GATES



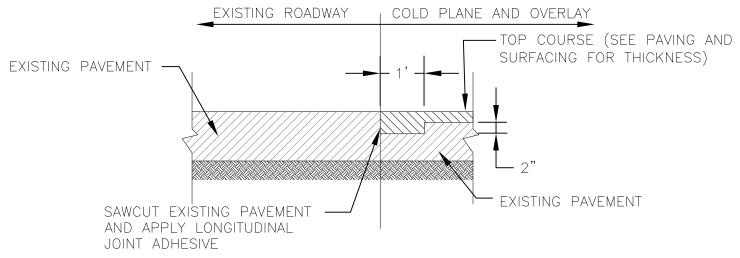
CHAIN LINK FENCE DETAIL 2

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

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SPEC. SECTION REF#: 02830



NOTES:

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

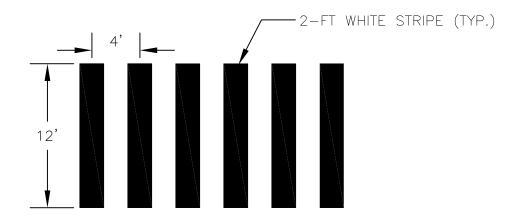


COLD PLANE AND OVERLAY JOINT DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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

SPEC. SECTION REF#: 02500



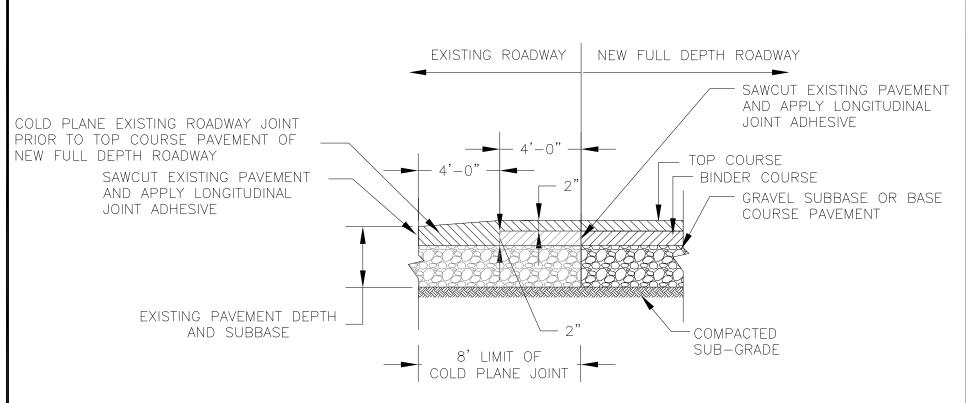
CAMBRIDGE STANDARD CROSSWALK



CAMBRIDGE STANDARD CROSSWALK

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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



NOTES:

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



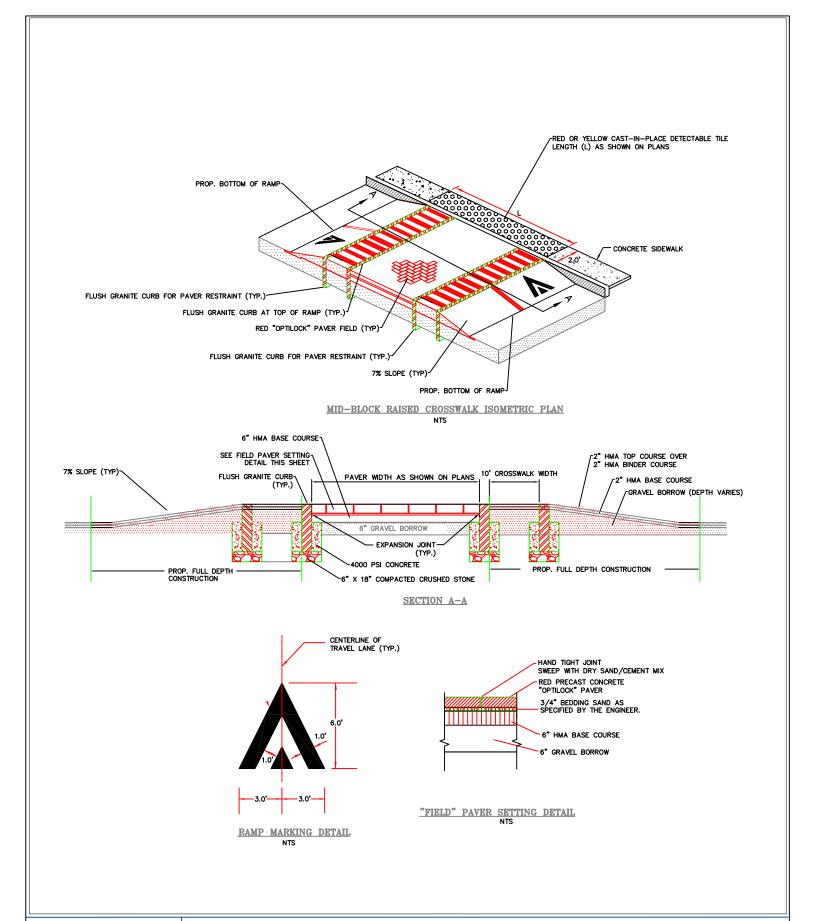
FULL DEPTH PAVEMENT JOINT DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02500





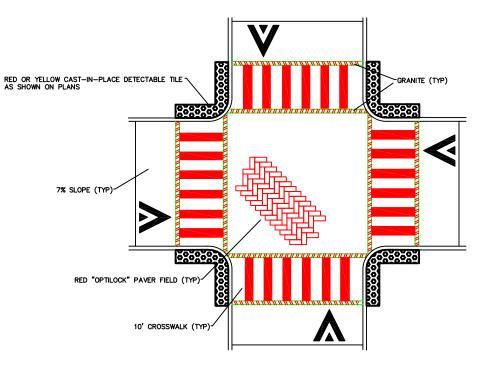
RAISED INTERSECTION / RAISED CROSSWALK DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

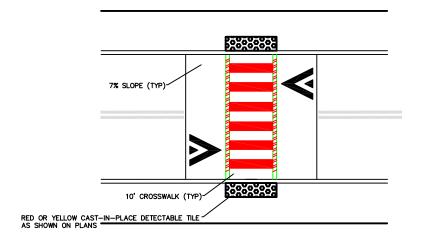
SCALE: NTS

DATE 5/201 OF ISSUE:

5/2010 SPEC. SECTION REF#:



4-WAY RAISED INTERSECTION PLAN NTS



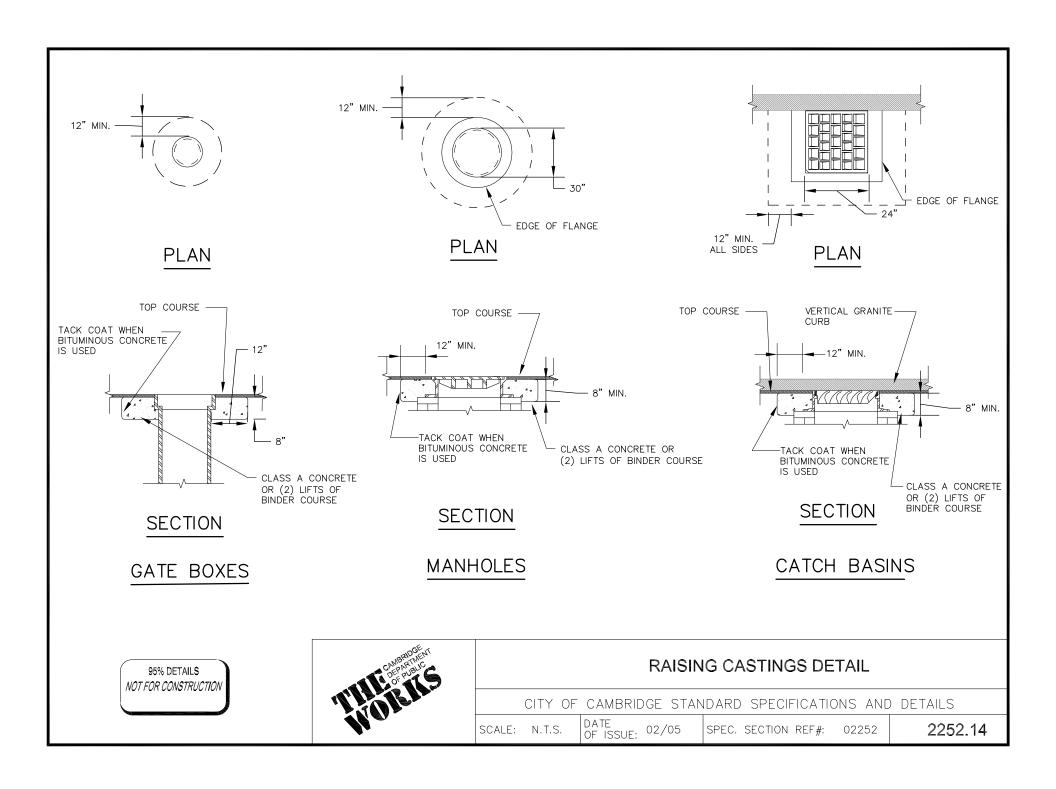


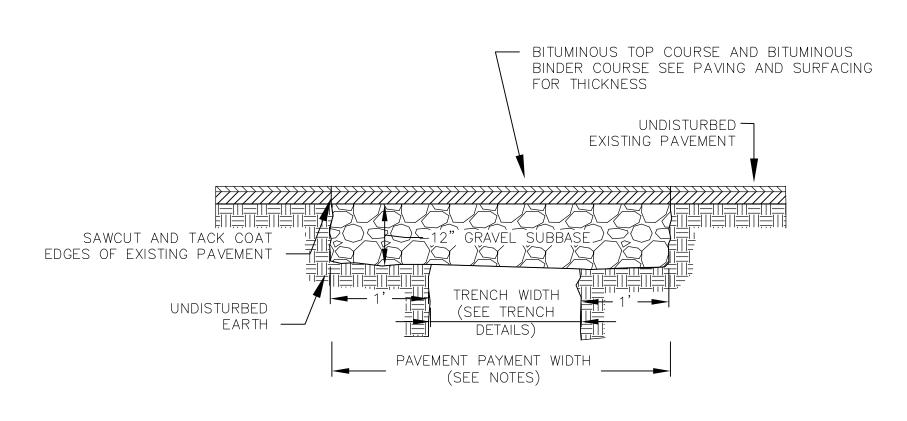
MID-BLOCK RAISED CROSSWALK DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: NTS

DATE 5/2010 OF ISSUE:





NOTES:

- 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.

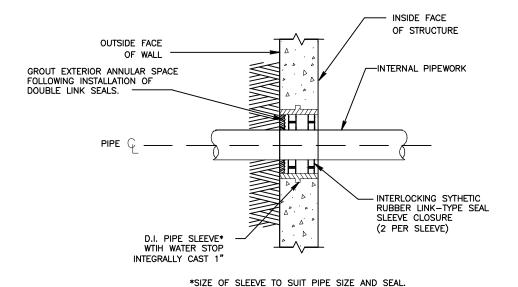
ALL CONTROLLER

TRENCH PAVEMENT DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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

SPEC. SECTION REF#: 02500



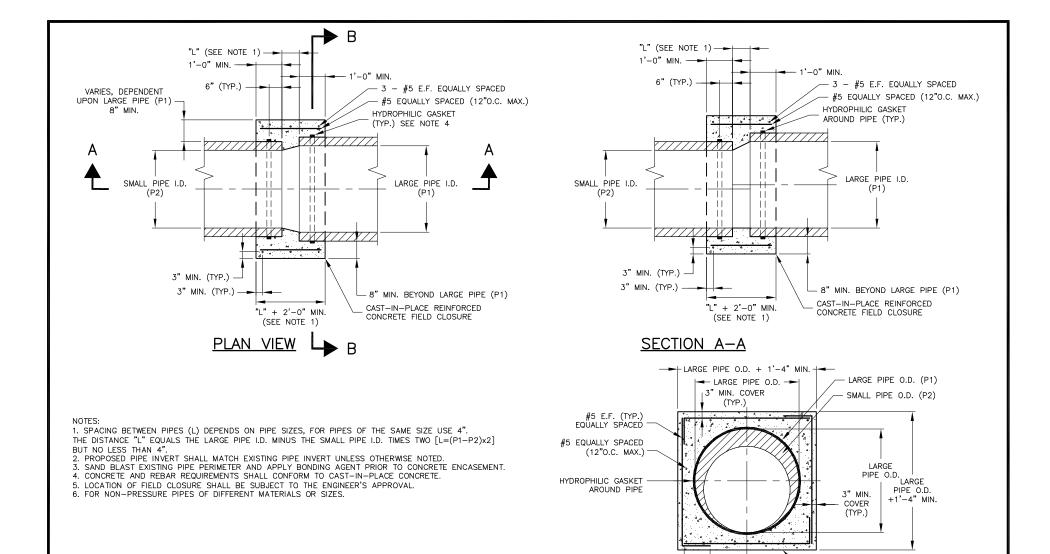


BURIED WALL PIPE SLEEVE CLOSURE

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

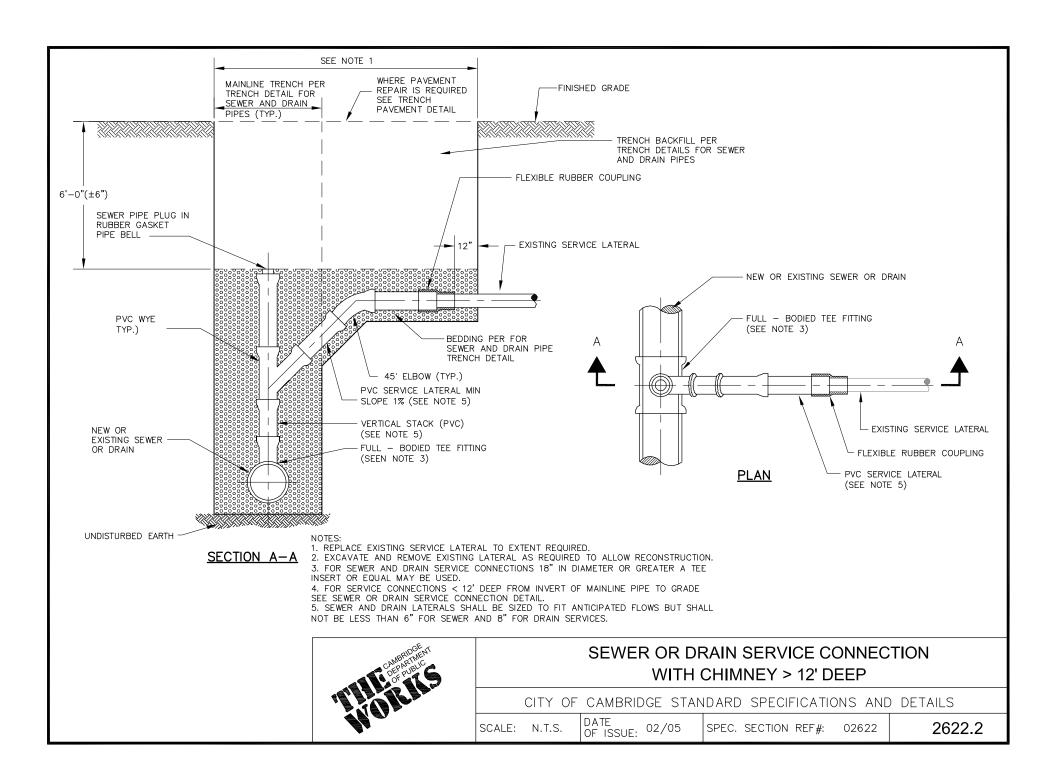
SECTION B-B

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

3300.1

CAST-IN-PLACE REINFORCED

CONCRETE FIELD CLOSURE



	EXISTING PIPE MATERIAL							
		BRICK	RCP	DI	VC	PLASTIC		
	BRICK	1	1	1	1	1		
ATERIA	RCP	1	1	1	1	1		
NEW PIPE MATERIAL	DI	1	1	2	2	2		
NEW	VC	1	1	2	2	2		
	PLASTIC	1	1	2	2	2		

PIPE CONNECTION TABLE*

TYPE 1 = CONCRETE COLLAR

TYPE 2 = TRANSITION COUPLING (DRESSER OR EQUAL)

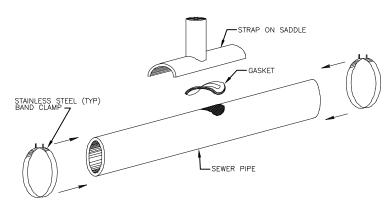
* SERVICE LATERALS 200mm [8"] OR LESS SHALL BE FERNCO-TYPE.



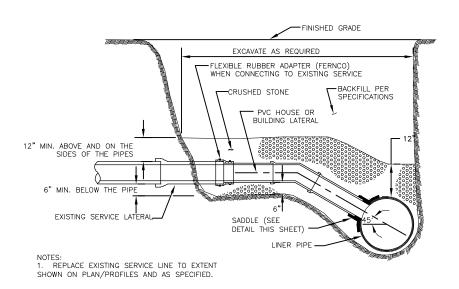
PIPE TO PIPE CONNECTIONS

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE OF ISSUE: 4/04 SPEC. SECTION REF#: 02622 2622.4



SADDLE CONNECTION - PLAN



SADDLE CONNECTION - SECTION

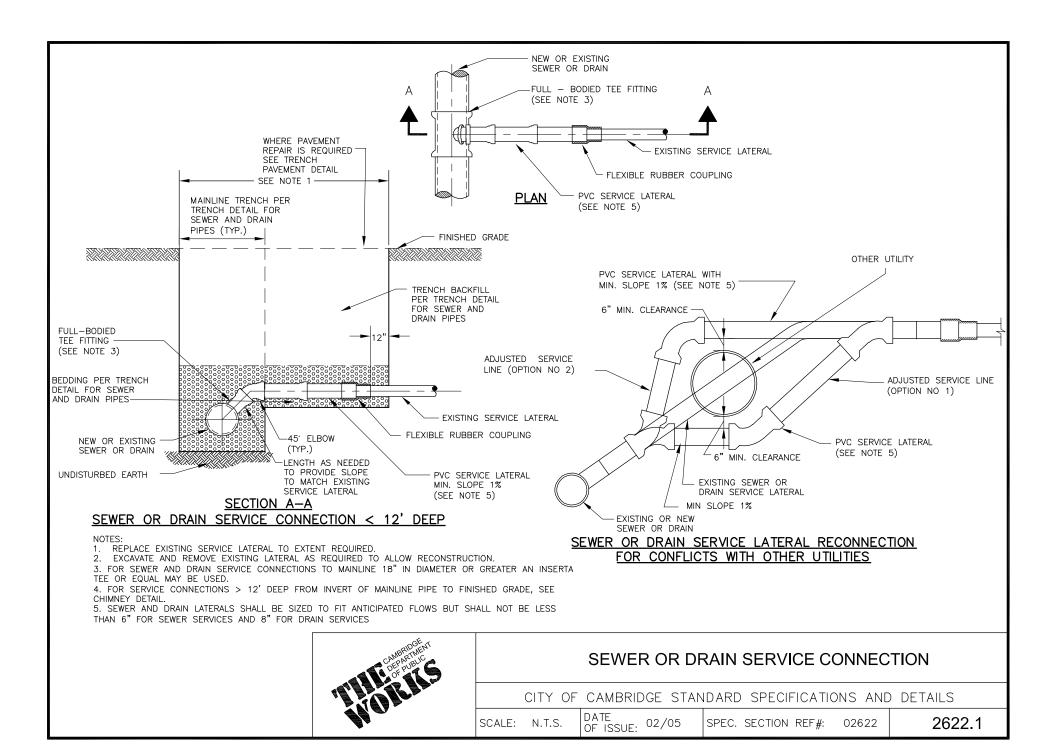
NOT TO SCALE

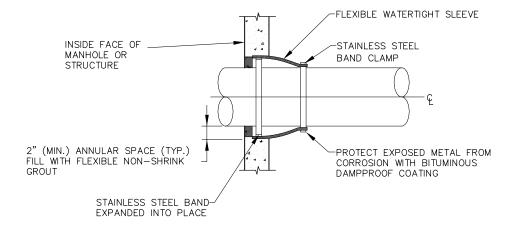


SEWER OR DRAIN SERVICE CONNECTION SADDLE CONNECTION

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S. DATE 03/06 SPEC. SECTION REF#: 02622 2622.3





NOTE:

1. PRECAST OPENING OR CORE DRILLED INTO EXISTING STRUCTURE. SIZE VARIES TO ACCOMMODATE EXTENSION BONNET FLANGE DIAMETER OR PIPE.

95% DETAILS
NOT FOR CONSTRUCTION

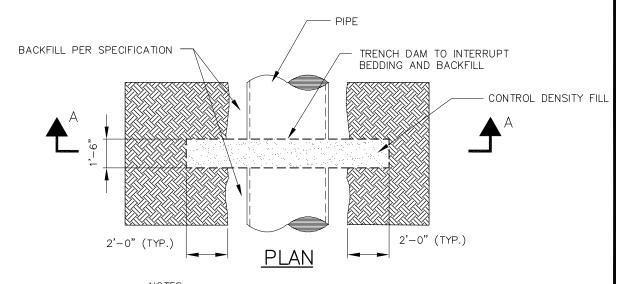


FLEXIBLE SLEEVE CONNECTION DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

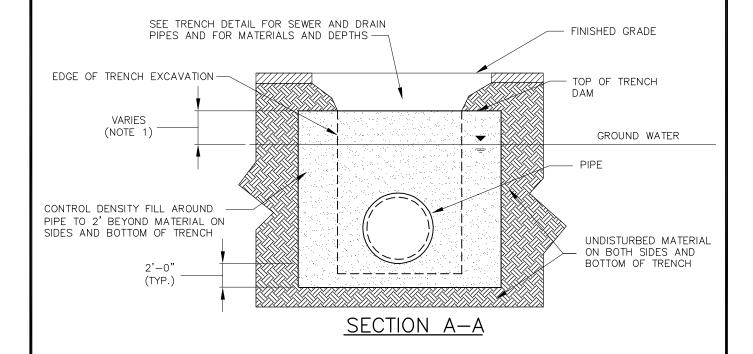
SCALE: N.T.S. DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02252



NOTES:

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

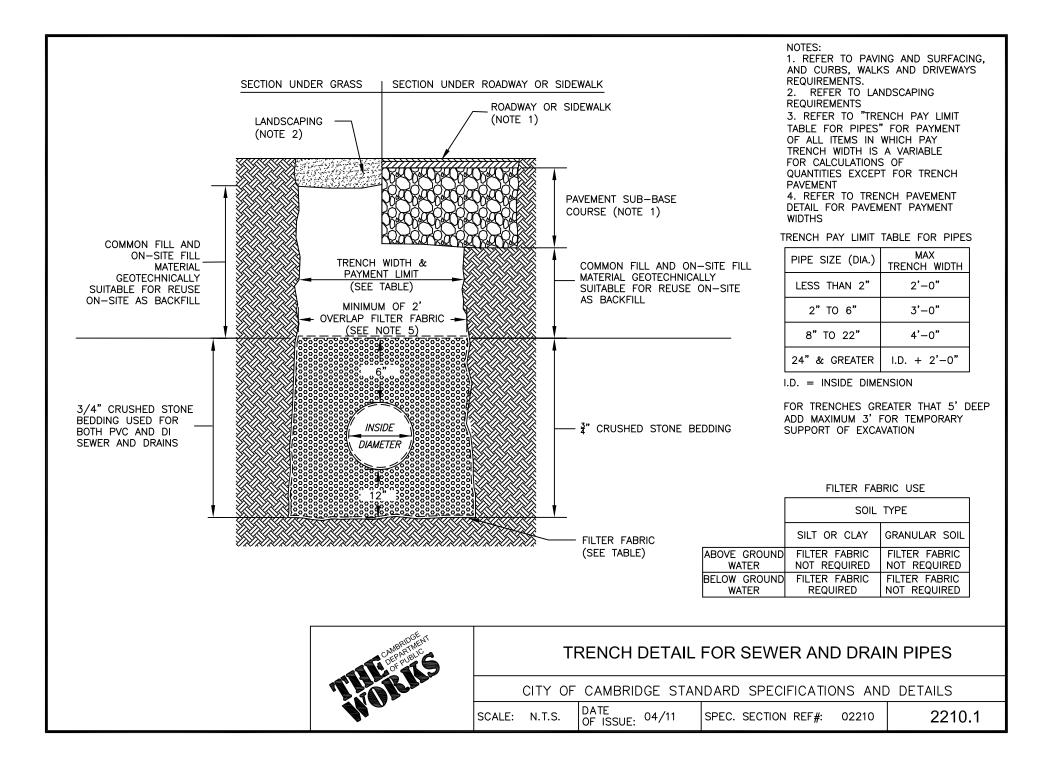
3. IF PIPE MATERIAL IS DUCTILE IRON USE A NON FLY ASH BASEI CONTROL DENSITY FILL

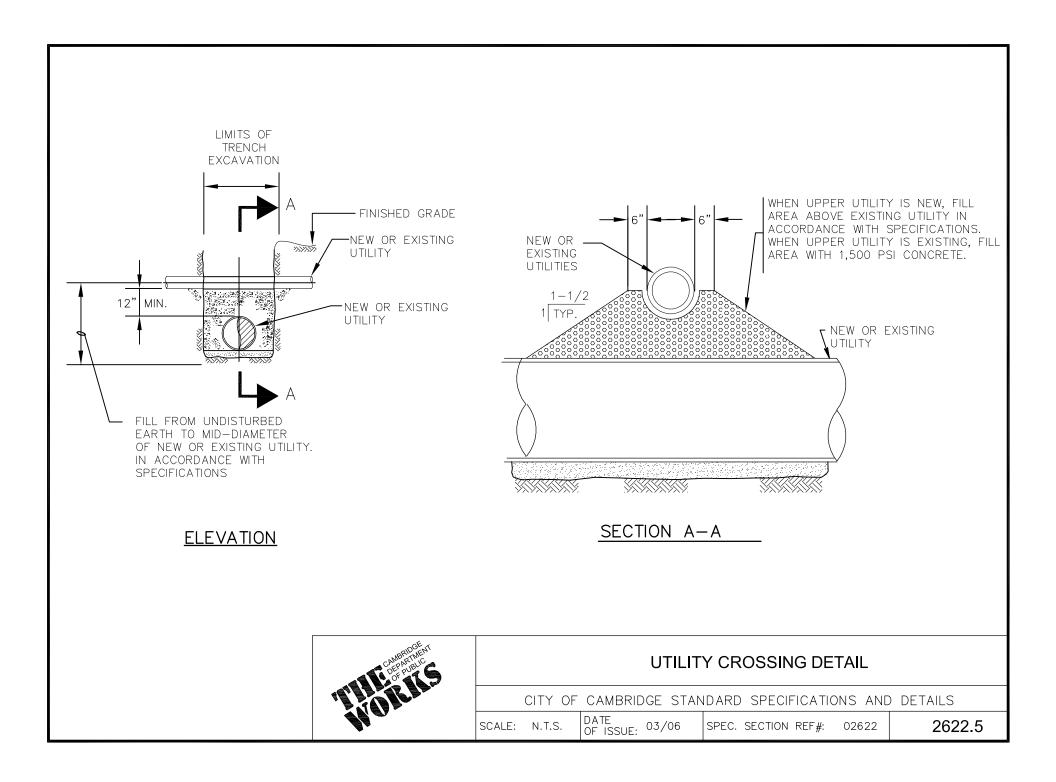


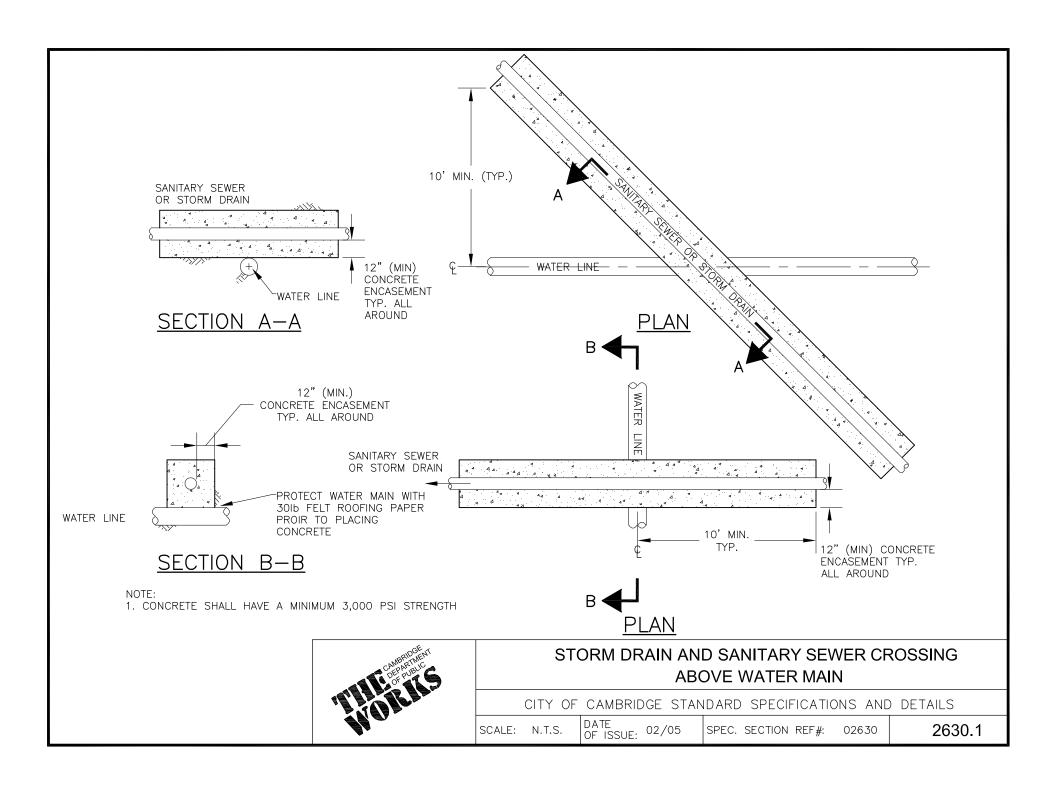
TRENCH DAM DETAIL

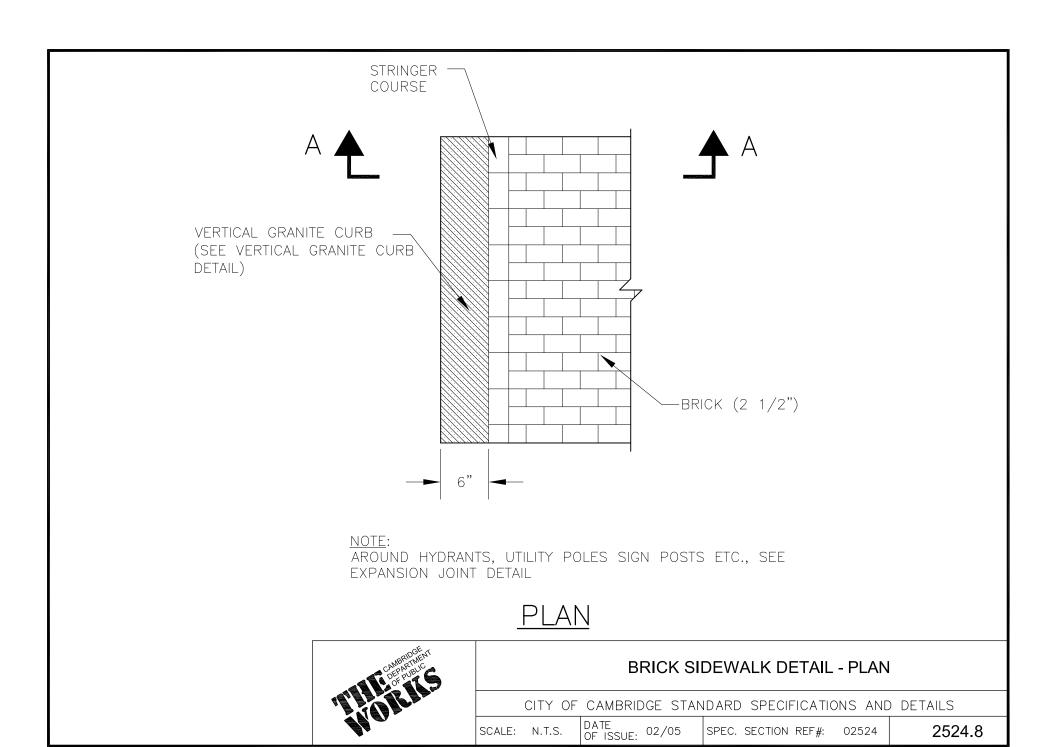
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

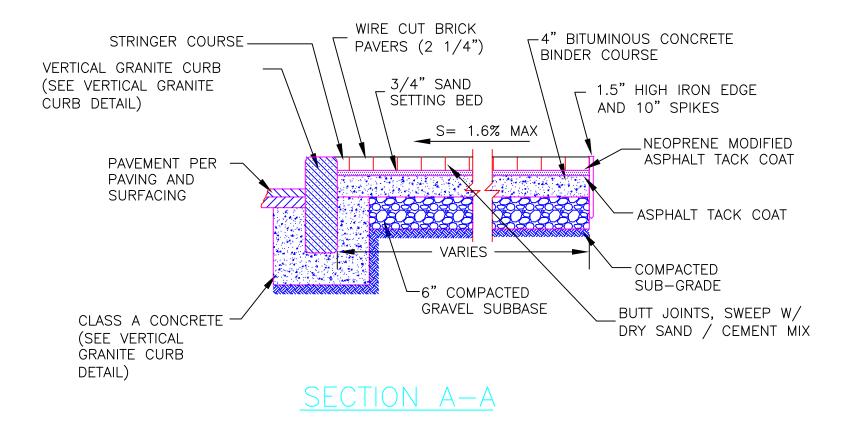
SCALE: N.T.S. DATE O2/05 SPEC. SECTION REF#: 02210 2210.2











- 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

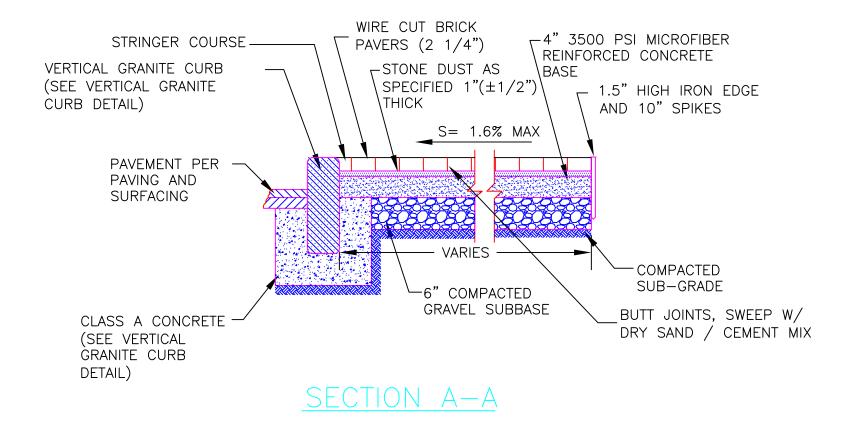


ASPHALT BASE BRICK SIDEWALK DETAIL - SECTION

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

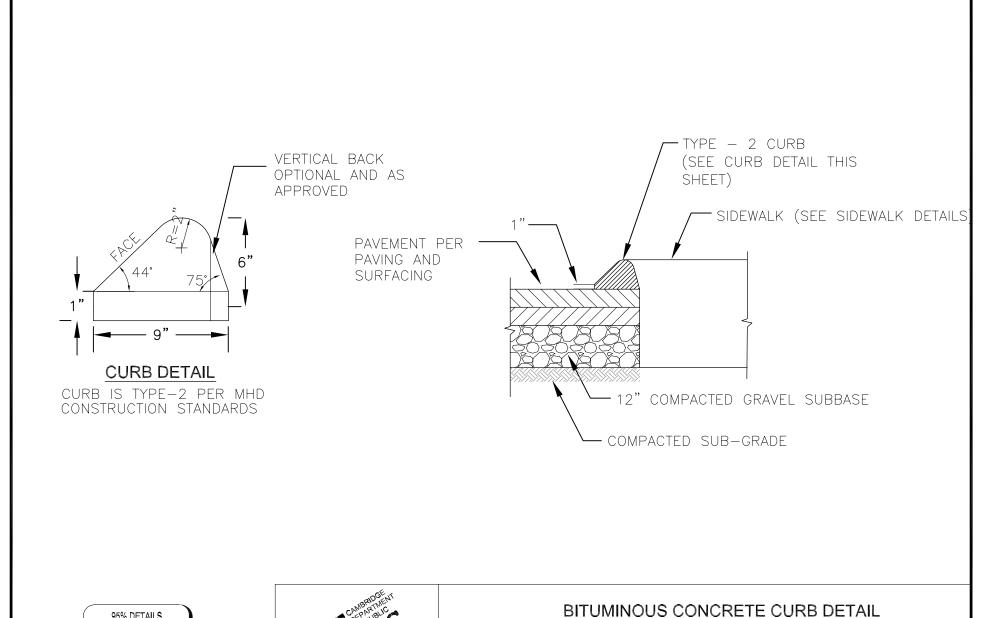


CONCRETE BASE BRICK SIDEWALK DETAIL - SECTION

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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

SPEC. SECTION REF#: 02524

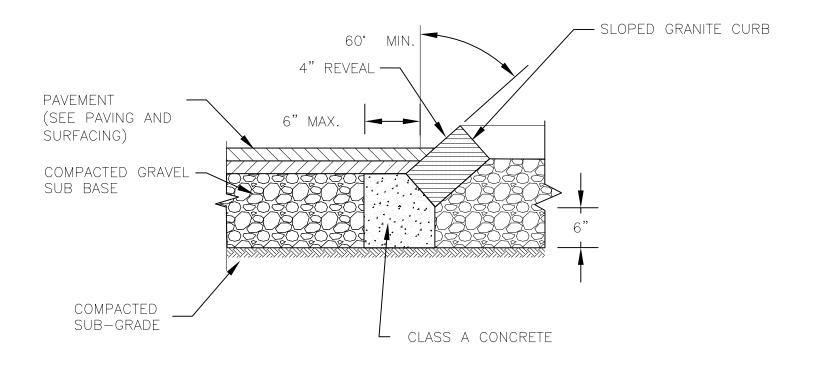


95% DETAILS NOT FOR CONSTRUCTION

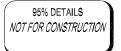


CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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





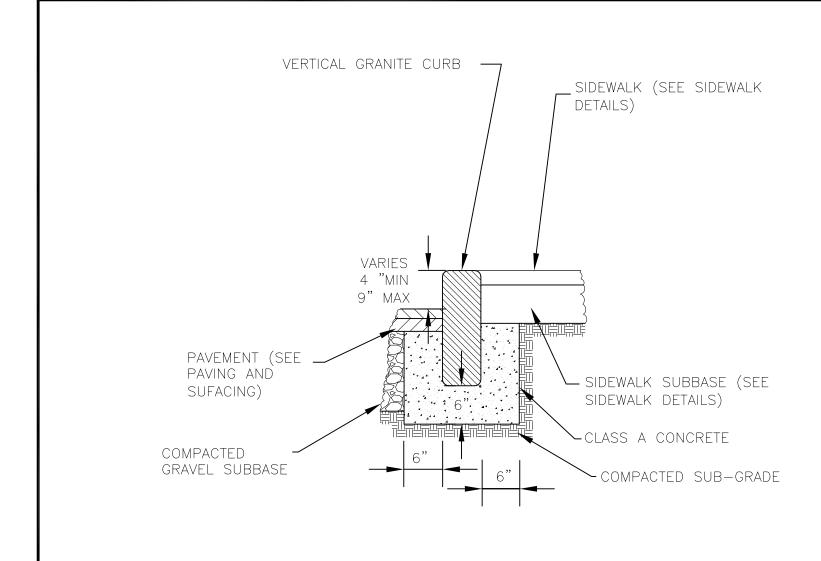
SLOPED GRANITE CURB DETAIL

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 02524



95% DETAILS NOT FOR CONSTRUCTION



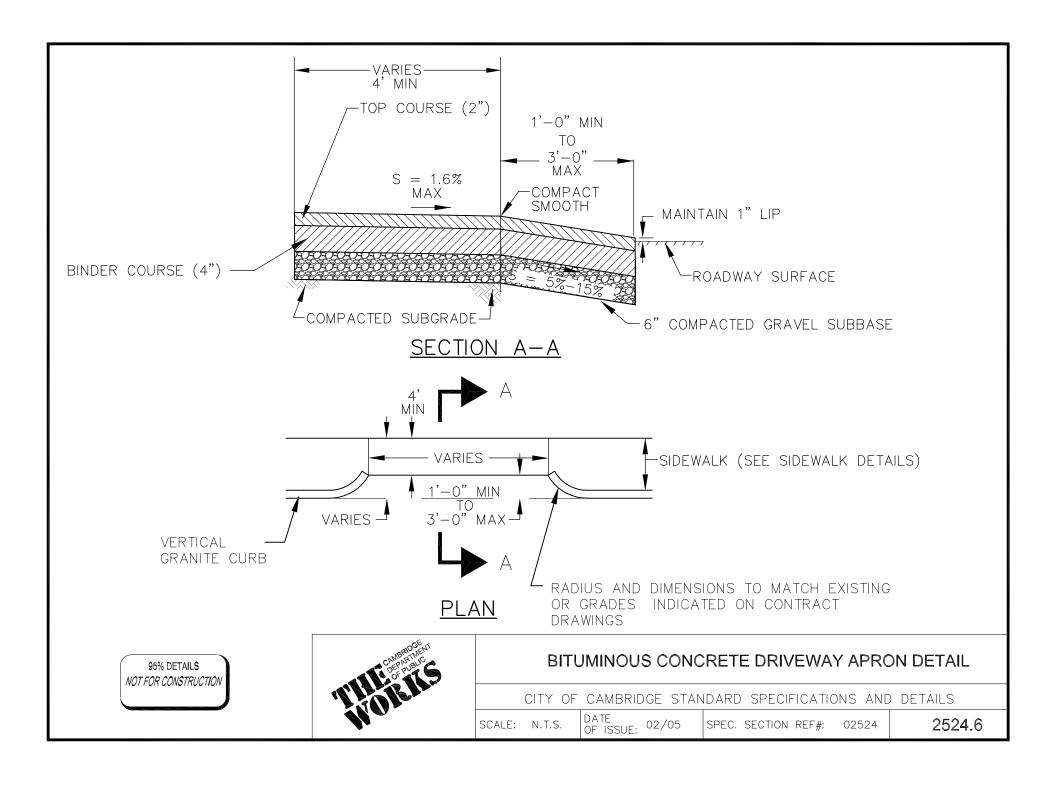
VERTICAL GRANITE CURB DETAIL

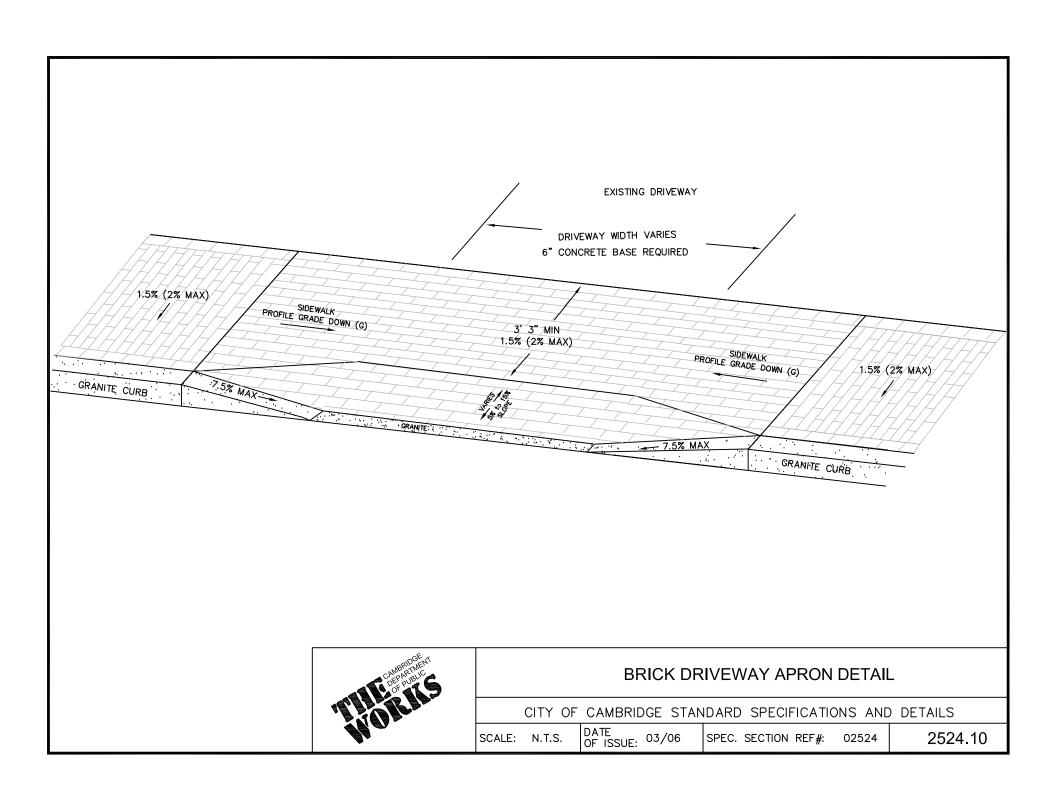
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

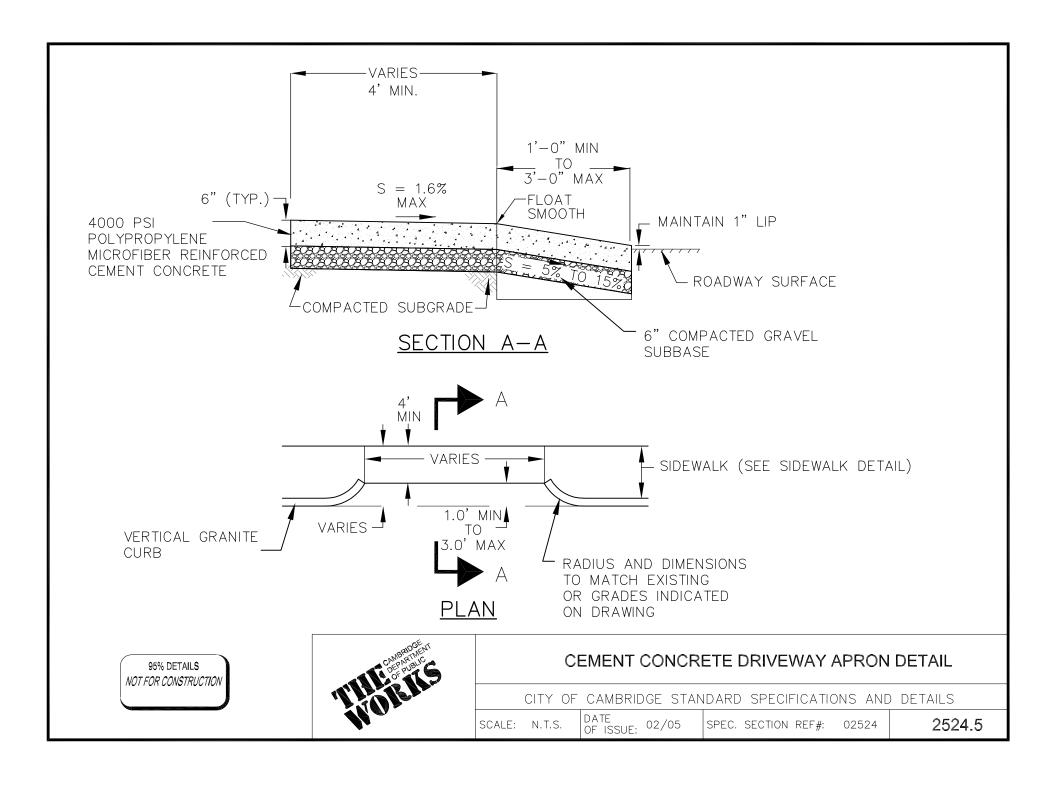
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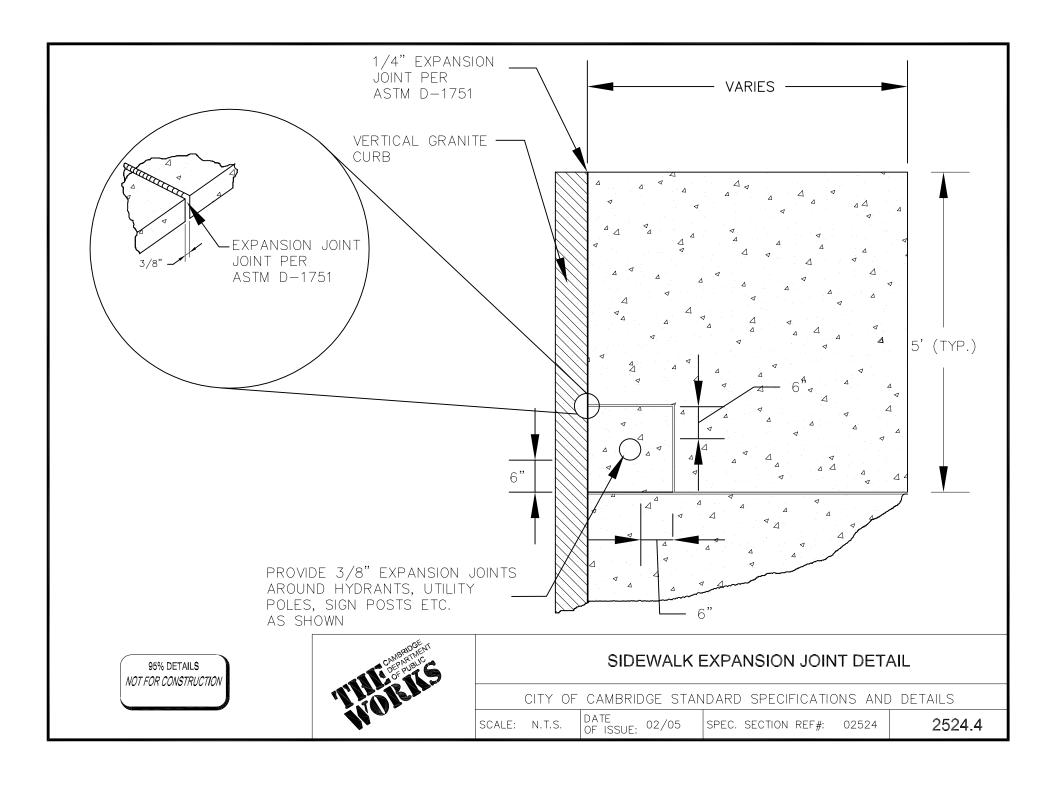
DATE OF ISSUE:

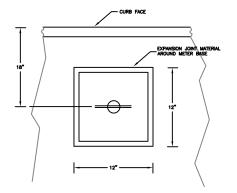
02/05 | SPEC. SECTION REF#: 02524











PLAN - PARKING METER POST

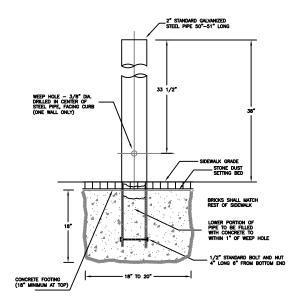
LOSSE MATERAL REMOVED
TO OSTAIN 12" SULVARE
PORTEL BUSINES
PORTEL BUSINES
PORTEL BUSINES
PORTEL BUSINES
PORTEL BUSINES
FREE OF LOOSE EARTH

SIDEMALK GRADE

14" TO 16"

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

SECTION - PARKING METER POST, CONCRETE SIDEWALK



SECTION - PARKING METER POST, BRICK SIDEWALK



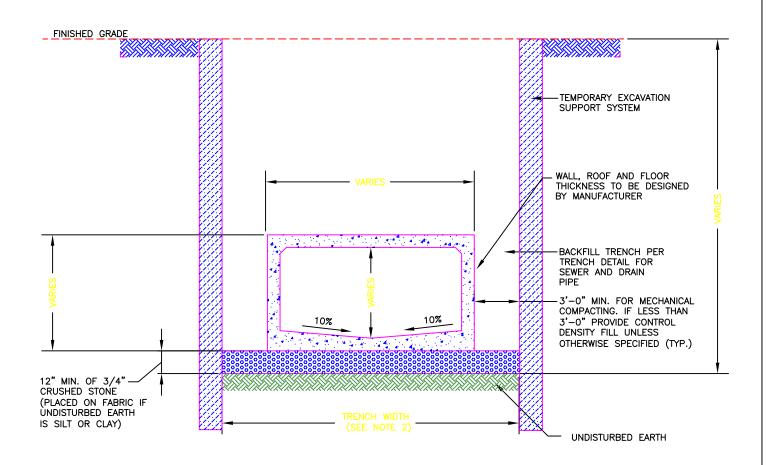
PARKING METER POST

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: NTS

DATE OF ISSUE:

SPEC. SECTION REF#:



- 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

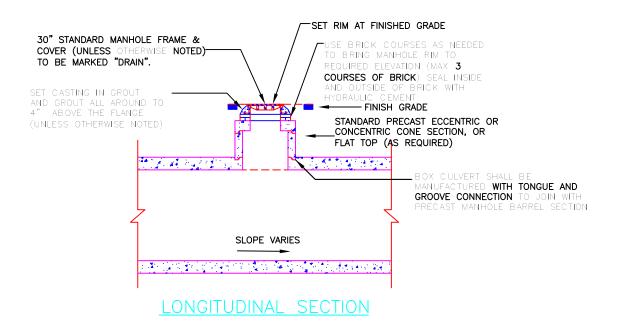
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

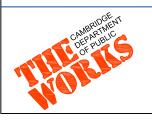
SCALE: N.T.S.

OF ISSUE:

02/05

SPEC. SECTION REF#: 02715



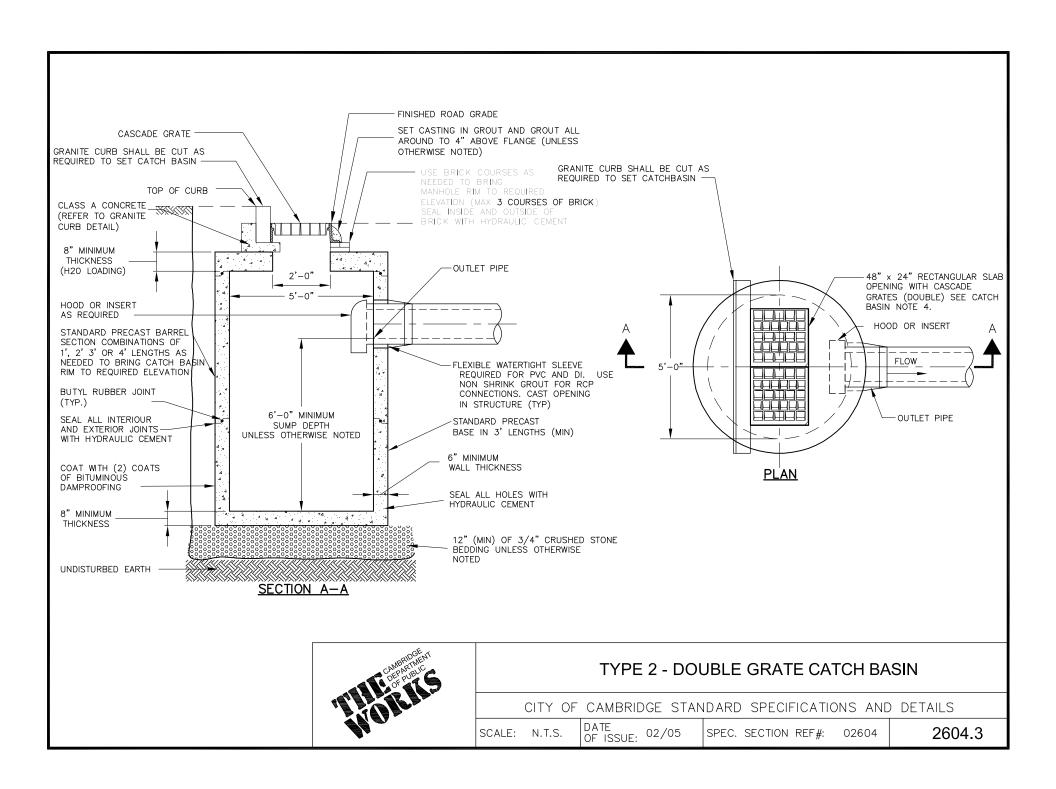


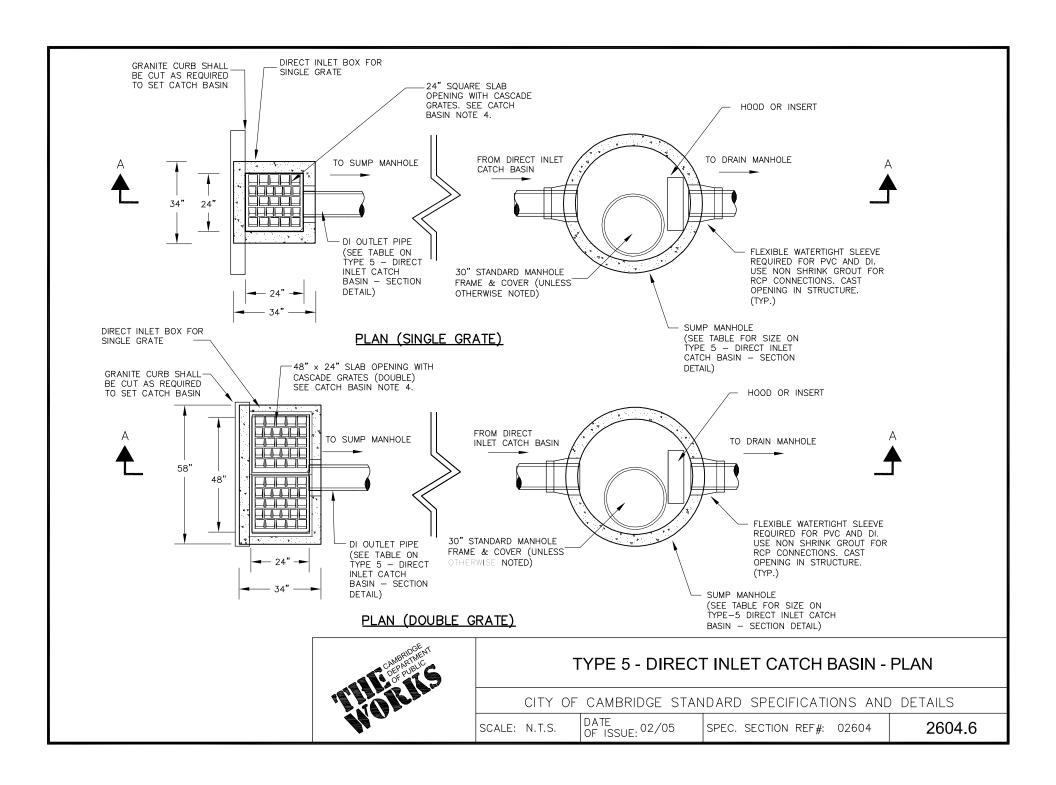
BOX CULVERT DETAIL - SECTION 2

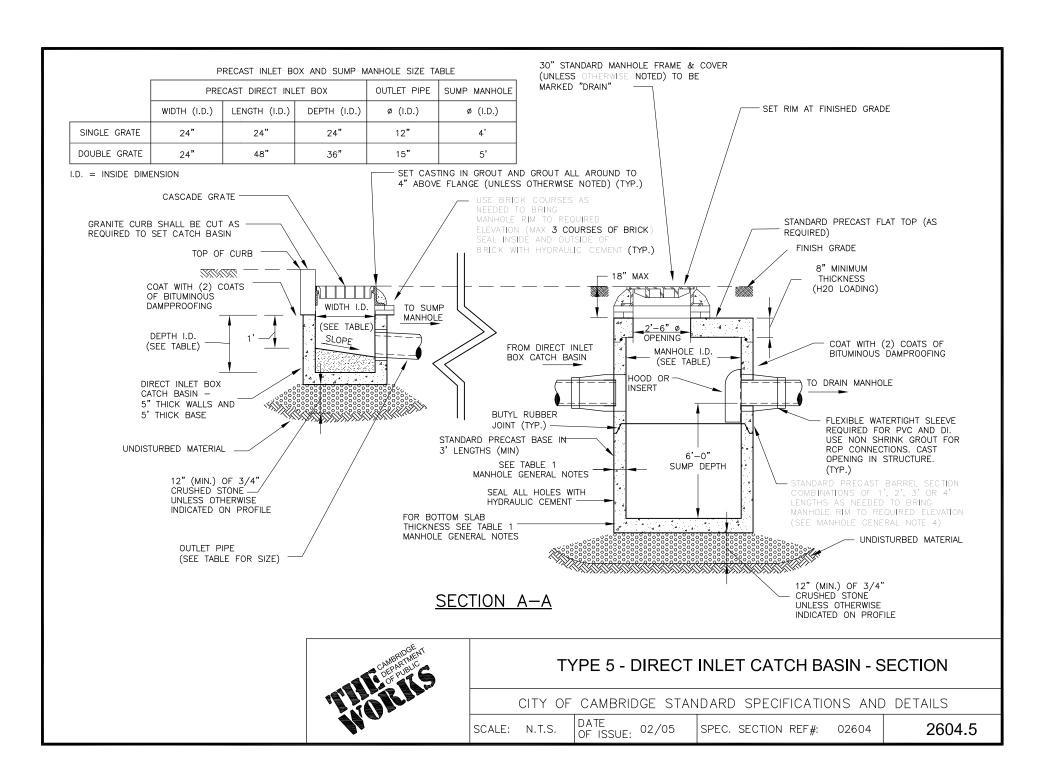
2715.2

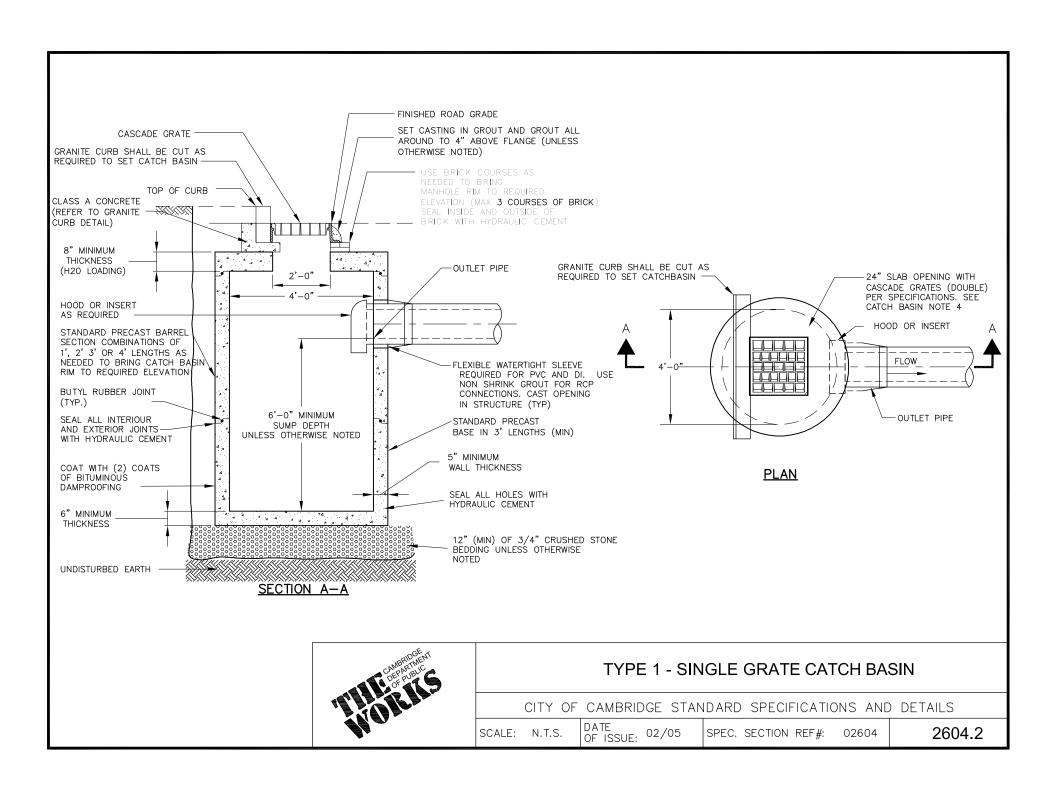
CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

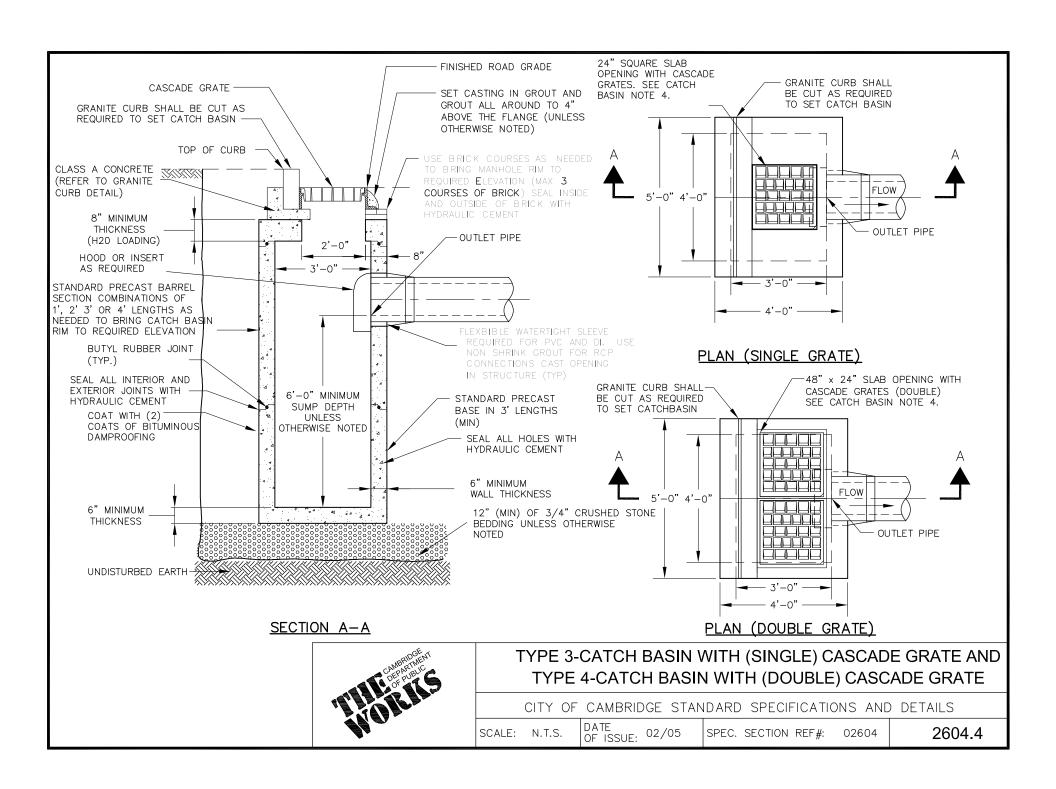
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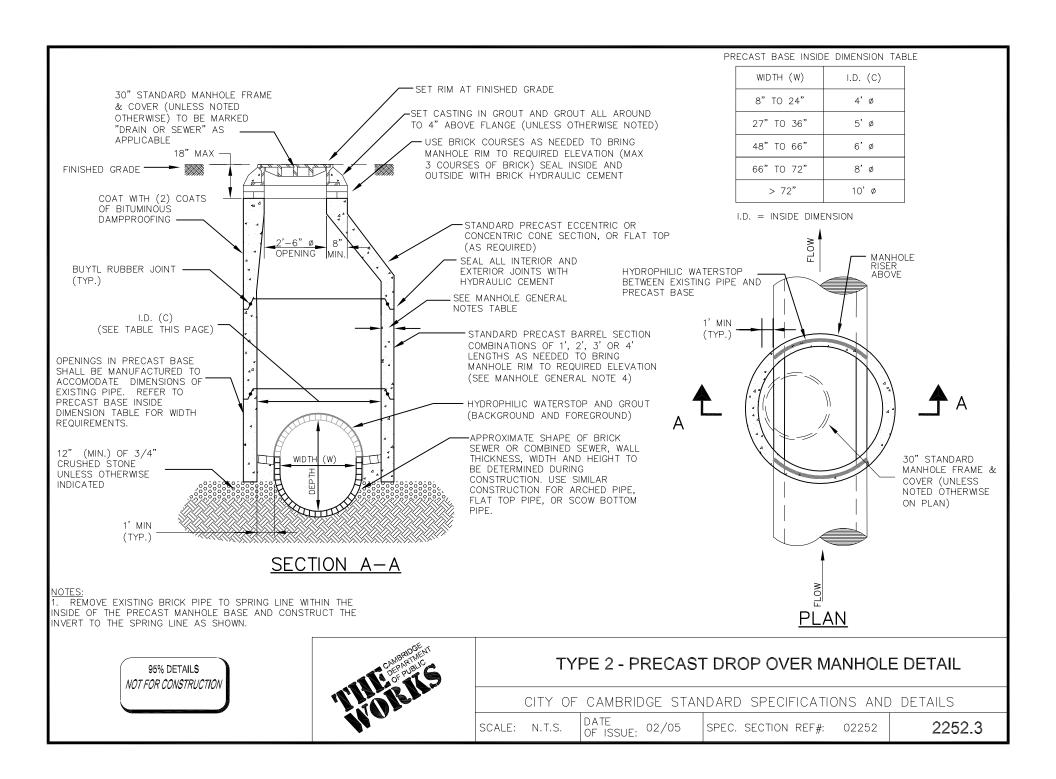


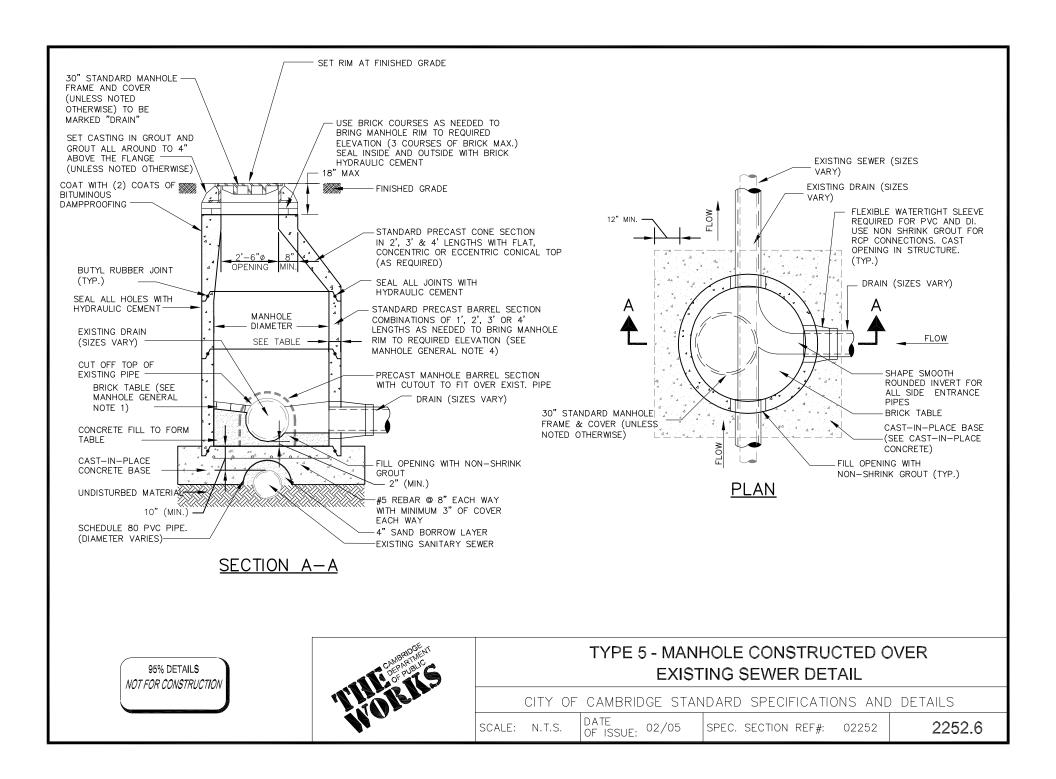


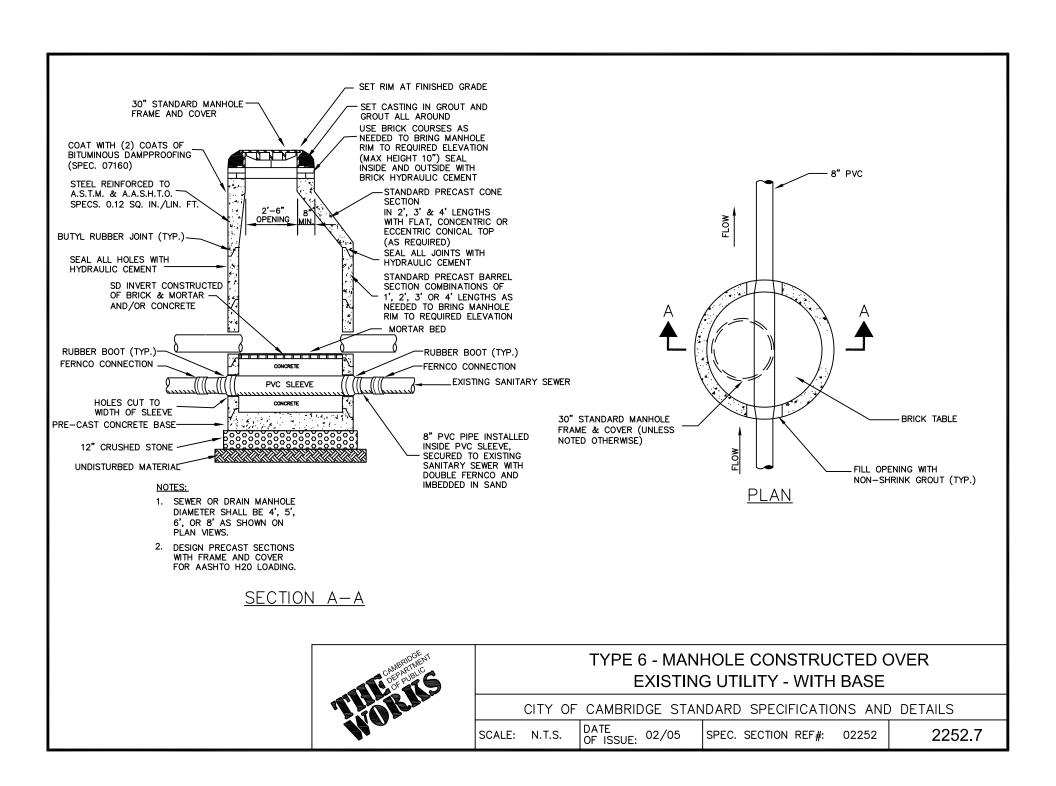


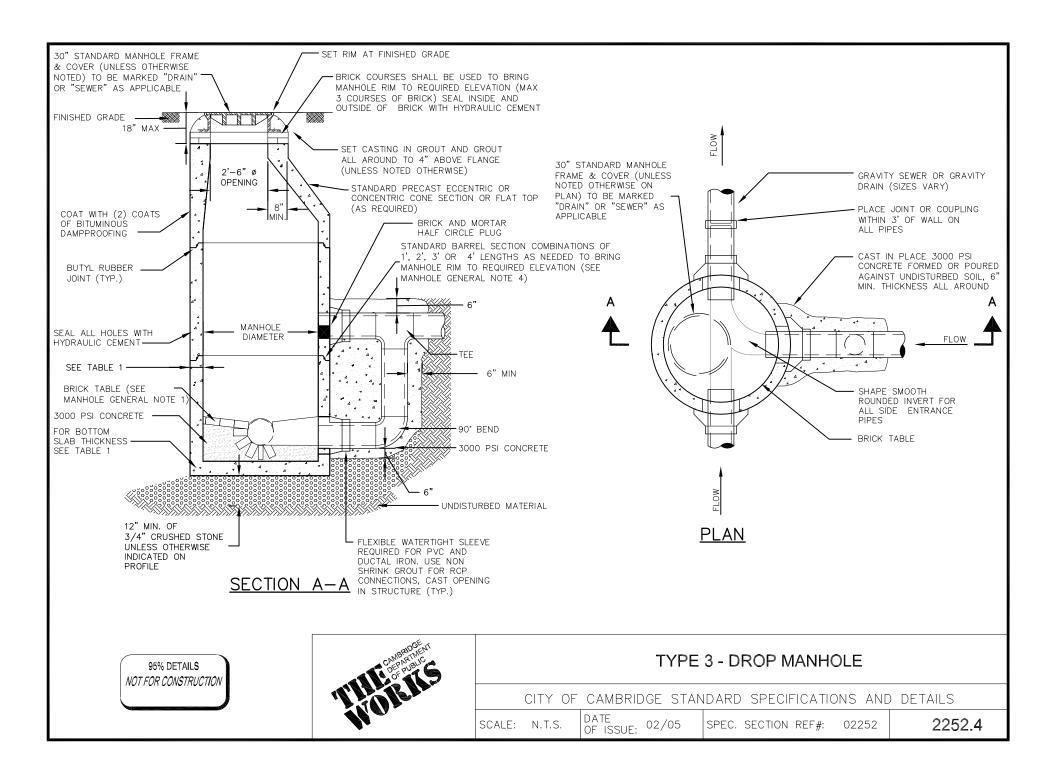












TADLE 4								
	TABLE 1							
MANHOLE DIAMETER	SIDE WALL MIN. THICKNESS	E WALL BOTTOM SLAB NICKNESS		DIAMETER * DI/PVC				
4'	5"	6"	24"	30"				
5'	6"	8"	36"	42"				
6'	6"	8"	48"	54"				
8'	8"	8"	66"	72"				
10'	10"	10"	72"	84"				

^{*} 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

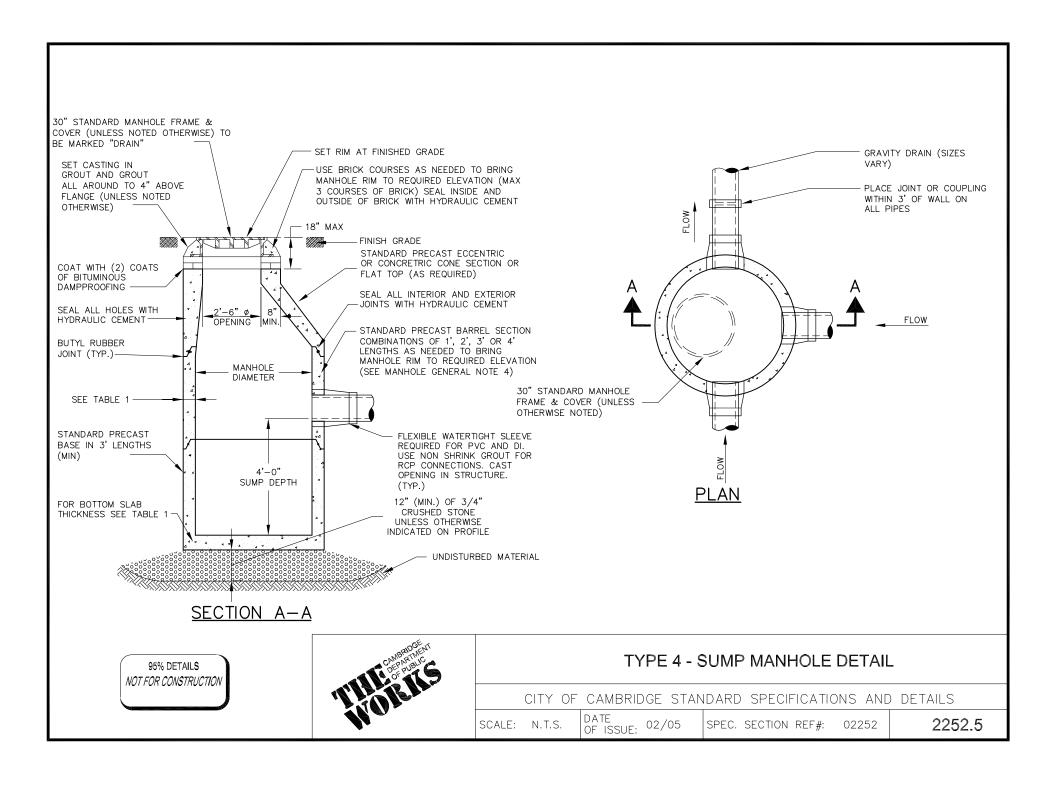


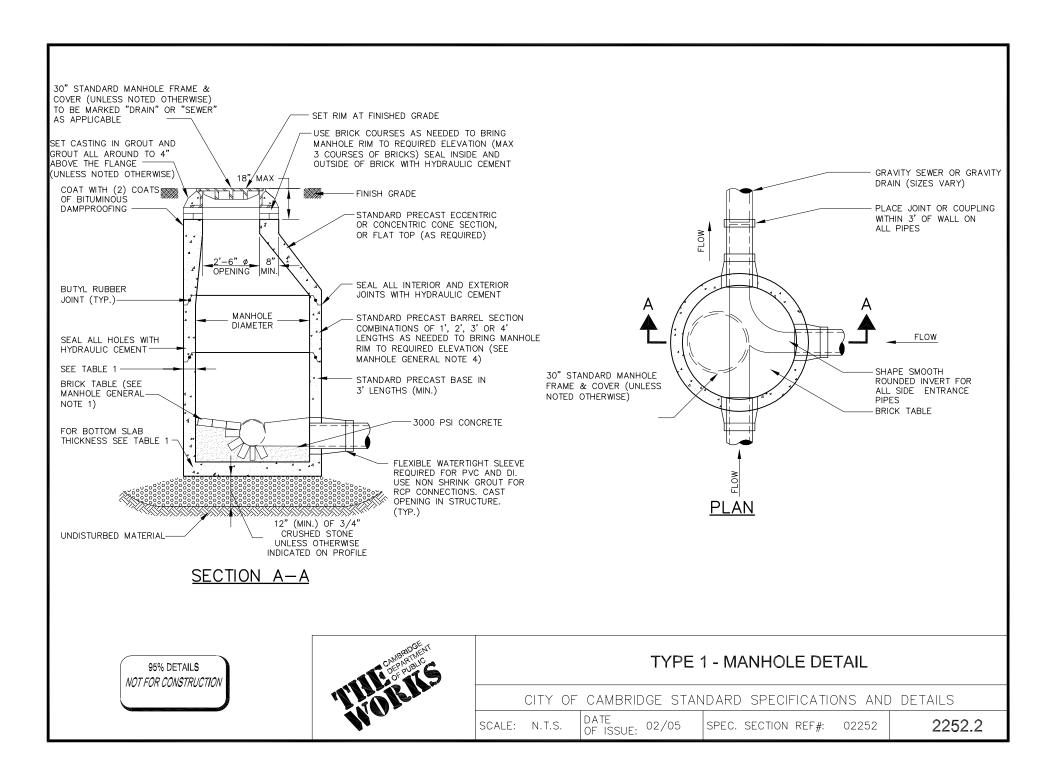
MANHOLES - GENERAL NOTES AND DIMENSIONS

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

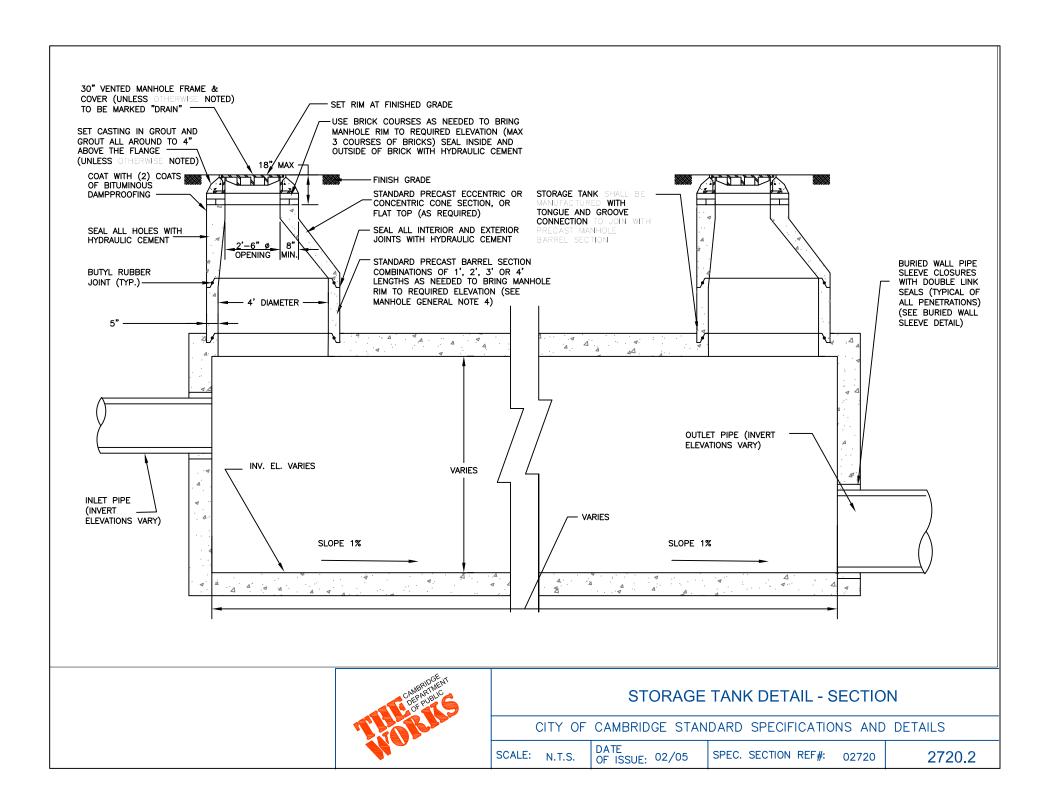
OF ISSUE: 02/05 SCALE: N.T.S.

SPEC. SECTION REF#: 02252

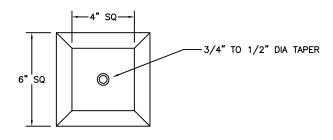




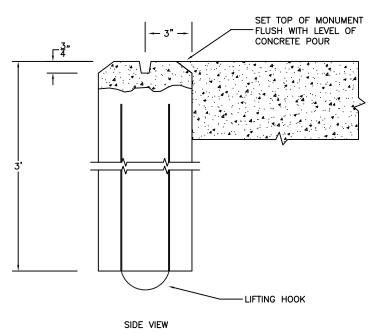
1. PRECAST REINFORCED CONCRETE BOX SECTIONS MANUFACTURED IN ACCORDANCE WITH PRECAST REINFORCED STORAGE TANK. WATERTIGHT GASKET JULINIS TO BE PROVIDED AS SPECIFIED. 2. TRENCH PAY LIMIT FOR STORAGE TANK IS OUTSIDE DIMENSION (WIDTH) PLUS 3' FOR TEMPORARY SUPPORT OF EXCAVATION PLUS SPACE BETWEEN CULVERT 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



CITY OF CAMBRIDGE D.P.W. ENGINEERING DEPARTMENT SURVEY MONUMENT SPECIFICATION — 2008



PLAN VIEW



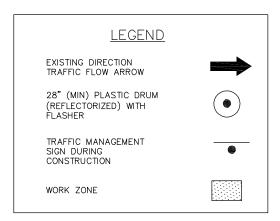
NOTES:

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

E.F. SHEA ITEM NO. B-BM2 WT=110# E.F. SHEA ITEM NO. B-BM3 WT=147#

E.F. SHEA, AMESBURY MA (978) 388-1509 E.F. SHEA, WILMINGTON MA (978) 658-2645 E.F. SHEA, NOTTINGHAM, NH (603) 942-5668 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

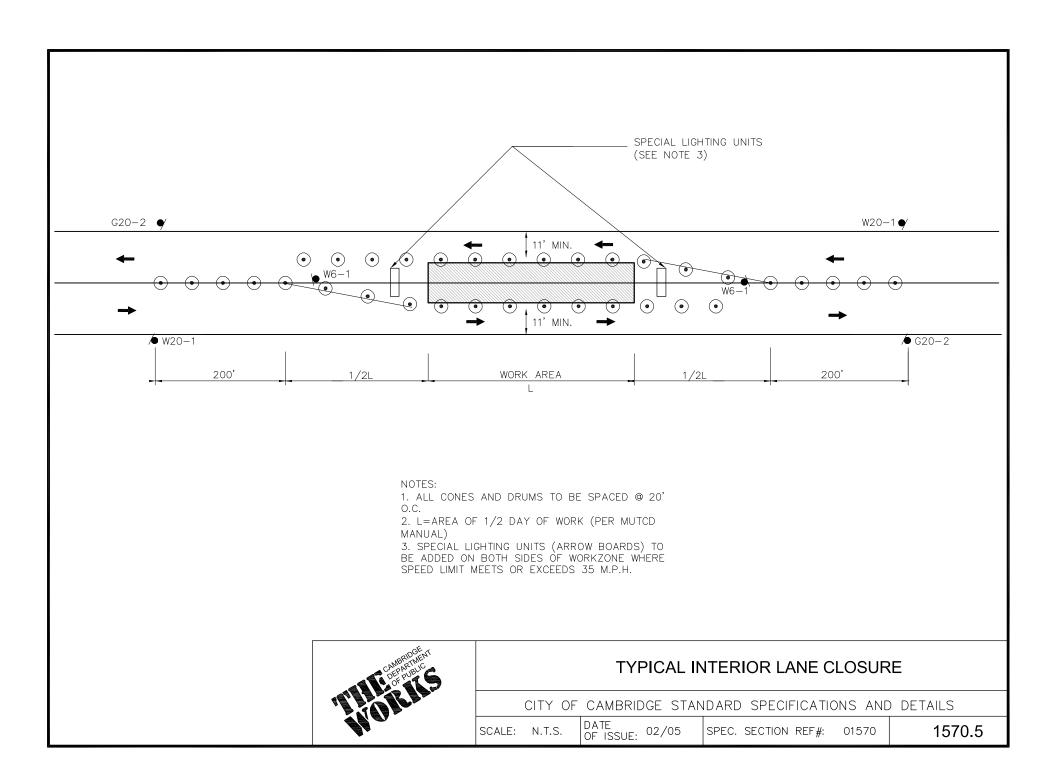


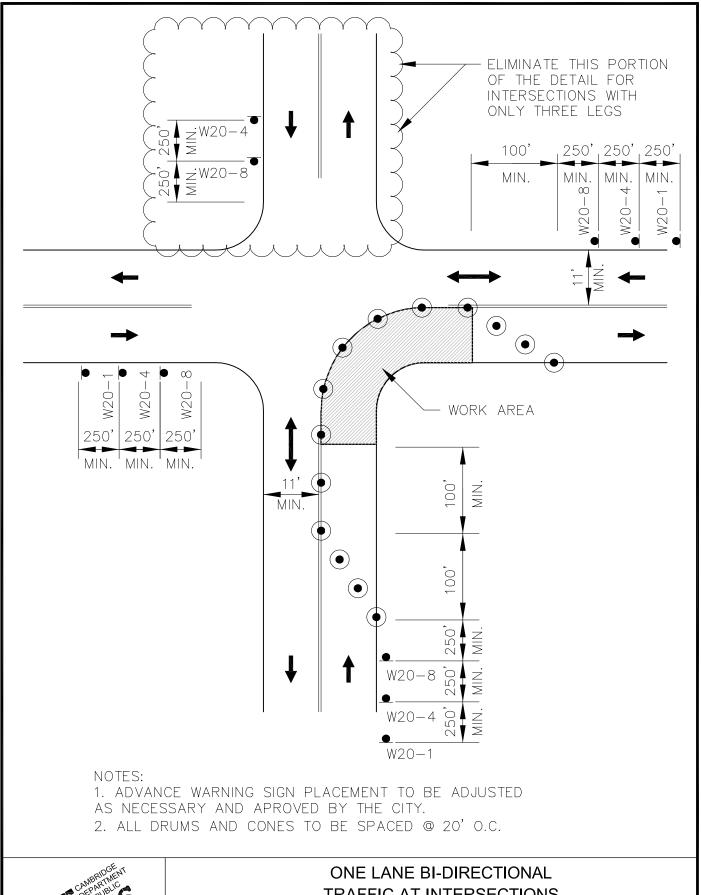


TRAFFIC MANAGEMENT GENERAL NOTES AND LEGEND

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

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





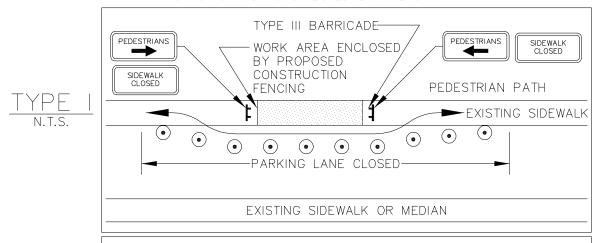


TRAFFIC AT INTERSECTIONS

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

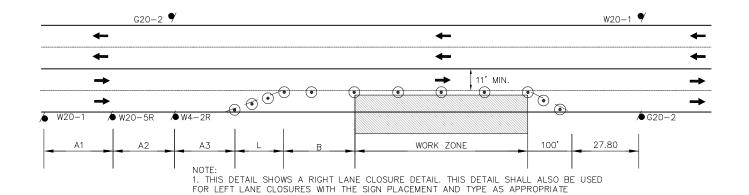
IDENTIFICATION	SIZE	OF SIGN		TEXT DIMENSIONS			COLOR		
NUMBER	WIDTH	HEIGHT	TEXT	LETTER HEIGHT	VERTICAL SPACING	ARROW	BACK- GROUND	LEGEND	BORDER
G20-2	36"	24"	END ROAD WORK	MUTCD STANDARD DETAIL		MUTCD STANDARD DETAIL			
W1 – 4L	30"	30"	1>						
W1-4R	30"	30"	(1)						
W4-2L	48"	48"	(II)						
W4-2R	48"	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



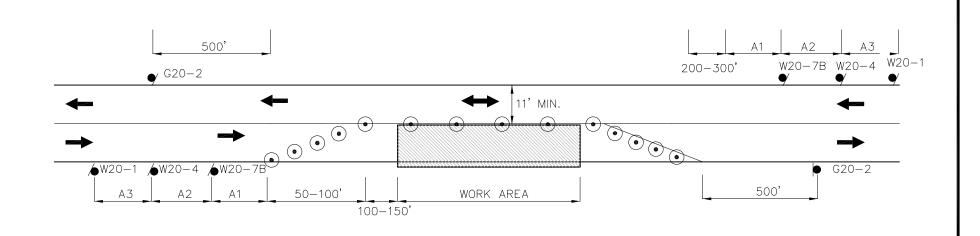
TYPICAL ONE LANE CLOSURE

CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS

SCALE: N.T.S.

DATE OF ISSUE: 02/05

SPEC. SECTION REF#: 01570



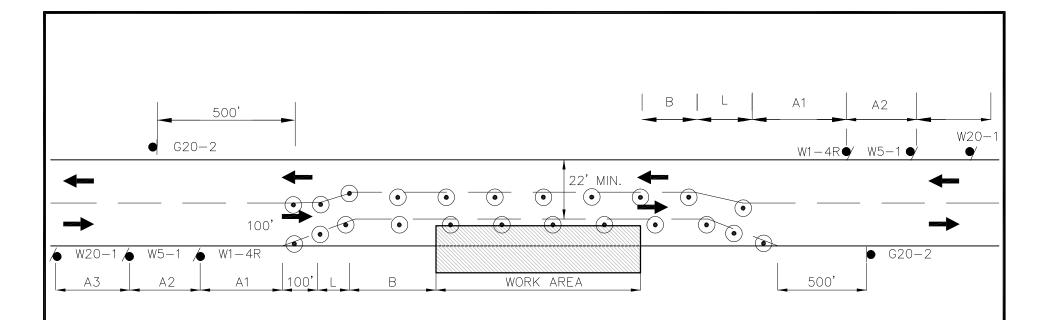
SPEED LIMIT (MPH)	SPACING FOR ADVANCE	CHANNELIZING D	EVICES	
(WIT TT)	WARNING SIGNS (A1/A2/A3)	DEVICE SPACING	MIN. #	
25-40	500/500/500	20	20	
45-55 500/1000/1000		40	20	



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



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.

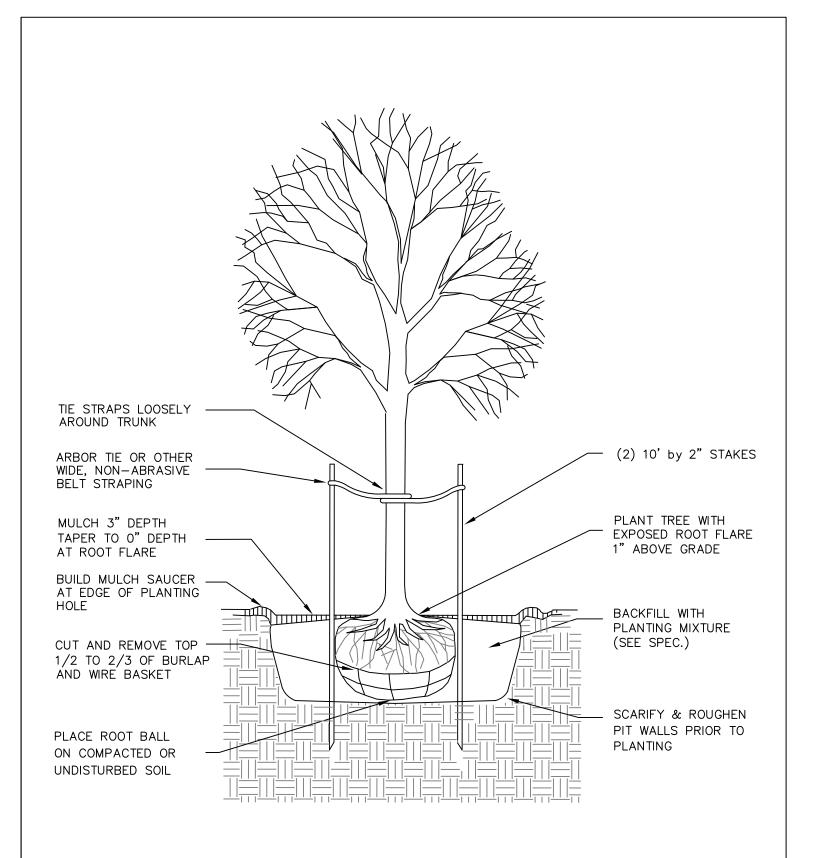
SPEED LIMIT (MPH)	SPACING FOR ADVANCE		CHANNELIZING	DEVICES	
(1117)	WARNING SIGNS (A1/A2/A3)	TRANSITION LENGTH (L)	BUFFER LENGTH (B)	DEVICE SPACING	MIN. #
25-40	500/500/500	320	160	20	90
45-55	500/1000/1000	680	360	40	90



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





TREE PLANTING DETAIL

SCALE: NTS OF ISSUE:09/2013 SPEC. SECTION REF#: