



# Public Facilities Committee Agenda

## City of Newton In City Council

**Wednesday, March 20, 2019**

**7:00 PM**  
**Room 204**

**#94-19      National Grid petition for grant of location in College Road**  
NATIONAL GRID petition for a grant of location to install and maintain 115'+/- of 8" main in College Road from the existing 8" gas main in front of #66 College Road in a northerly direction to house #72. The proposed service is part of an MWRA 36" water main replacement project. (Ward 7)

**Referred to Public Facilities and Finance Committees**

**#119-19      HER HONOR THE MAYOR requesting authorization to appropriate and expend one hundred twenty-nine thousand dollars (\$129,000) from the Sewer Reserve Fund to install a sewer connection to the Rumford Avenue transfer station for an office trailer at the site.**

**Referred to Public Facilities and Finance Committees**

**#120-19      Approve appropriation of \$500,000 for snow and ice removal**  
HER HONOR THE MAYOR requesting authorization to appropriate five hundred thousand dollars (\$500,000) from Free Cash to the following accounts:

Rental - Vehicles  
(0140110-5273)..... \$250,000  
Regular Overtime  
(0140110-513001)..... \$250,000

**Referred to Public Facilities and Finance Committees**

**#121-19      Funding for the South Meadow Brook Culvert at 170 Needham Street**  
HER HONOR THE MAYOR requesting authorization to appropriate and expend two hundred fifty thousand dollars (\$250,000) from the Stormwater Management Fund Surplus Account for the cleaning, inspection, and assessment for 230 linear feet of 5' x

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The location of this meeting is accessible and reasonable accommodations will be provided to persons with disabilities who require assistance. If you need a reasonable accommodation, please contact the city of Newton's ADA Coordinator, Jini Fairley, at least two business days in advance of the meeting: [jfairley@newtonma.gov](mailto:jfairley@newtonma.gov) or (617) 796-1253. The city's TTY/TDD direct line is: 617-796-1089. For the Telecommunications Relay Service (TRS), please dial 711.

16' concrete box culvert located adjacent to 170 Needham Street that conveys stormwater from the South Meadow Brook drainage basin.

**Referred to Public Facilities and Finance Committees**

**#122-19**

**Request for changes in traffic flow at five intersections**

HER HONOR THE MAYOR requesting approval of proposed design changes to the below intersections that result in changes to traffic flow to improve pedestrian and bicycle safety in accordance with the complete streets initiative:

- Crafts Street at Walnut Street – bump out and elimination of slip lane
- Walnut Street at Minot Place – bump out
- Walnut Street at Lowell Avenue - bump out and elimination of slip lane
- Waltham Street at Derby and Fairway Drive – bump outs and median island
- Elliot Street at Linden Street – two median islands

**Respectfully submitted,**

**Deborah Crossley, Chair**



**City of Newton, Massachusetts  
Office of the Mayor**

RUTHANNE FULLER  
MAYOR

~~TELEPHONE~~ #119-19  
(617) 796-1100  
Telefax  
(617) 796-1113  
TDD  
(617) 796-1089  
E-mail  
[fuller@newtonma.gov](mailto:fuller@newtonma.gov)

March 11, 2019

Honorable City Council  
Newton City Hall  
1000 Commonwealth Avenue  
Newton Centre, MA 02459

Councilors:

I write to request that your Honorable Council docket for consideration a request to authorize the appropriation and expenditure of \$129,000 from the Sewer Reserve Fund to allow for the sewer connection to the Rumford Ave transfer station.

A new office trailer will then be installed at the Rumford Ave Transfer Station for the use of Rumford Ave and Sustainable Materials Management personnel.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller  
Mayor

RECEIVED  
NEWTON CITY CLERK  
2019 MAR 12 AM 8:33  
DAVID A. O'BRIEN, CLERK  
NEWTON, MA 02459

City of Newton



DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE COMMISSIONER  
1000 Commonwealth Avenue  
Newton Centre, MA 02459-1449

Ruthanne Fuller  
Mayor

February 28, 2019

To: Jonathan Yeo, Chief Operating Officer  
Maureen Lemieux, Chief Financial Officer

From: James McGonagle, Commissioner of Public Works

Subject: Request for Construction Project Funds  
Rumford Ave Transfer Station Grinder Pump and Force Main

We request construction project funds of \$129,000 for the Rumford Ave Transfer Station Grinder Pump and Force Main.

A new office trailer will be installed at the Rumford Ave Transfer Station, for the Director of Environmental Affairs, and transfer station operations personnel. Currently there is no sewer service from the transfer station to the city's sewer main. A new sewer grinder pump will be installed outside the office trailer, and approximately 410 feet of new force main will be installed from the grinder pump to an existing sewer manhole in Rumford Ave at Riverview Ave near the city of Waltham line. Sanitary waste will flow from the office trailer to the grinder pump, and then be pumped to the city's sewer system. Gravity flow from the new office trailer to the city's sewer main is not feasible.

Please docket this request with the Honorable City Council.

attachments

cc: David Olsen, City Clerk  
Shawna Sullivan Assistant City Clerk  
Louis M. Taverna, P.E., City Engineer  
Ted Jerdee, Director of Utilities  
Jack Cowell, DPW Finance Director

WSE Job No. 2180801  
 2/27/2019  
 ENGINEER'S COST ESTIMATE

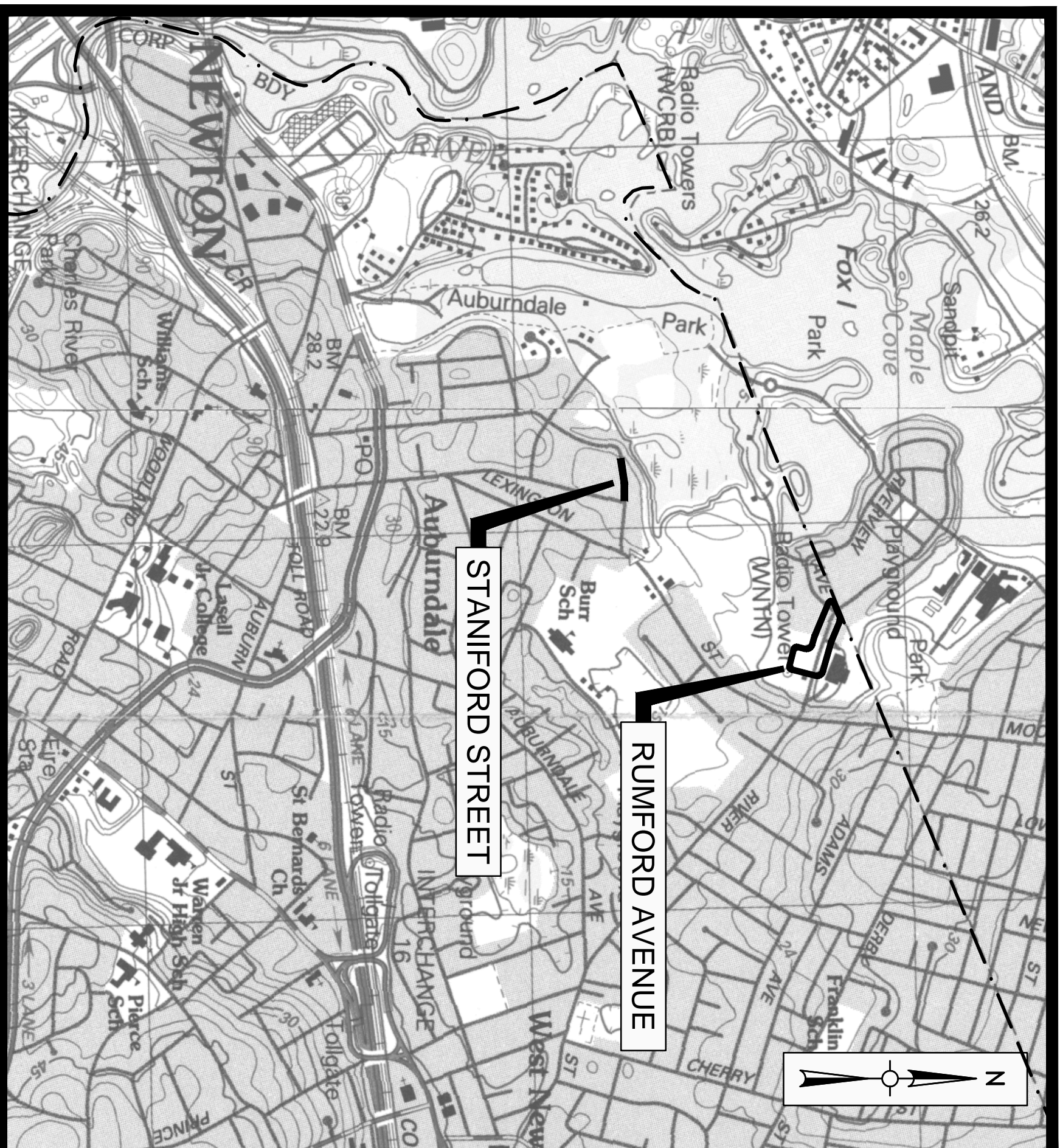
DONE BY: Patrick Terrien  
 CHECKED BY David Elmer

**CITY OF NEWTON, MASSACHUSETTS  
 RUMFORD AVENUE TRANSFER STATION GRINDER PUMP**

<b>ITEM #</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>DESCRIPTION</b>	<b>UNIT COST</b>	<b>TOTAL AMOUNT</b>
<b>BASE BID (Items 1 to 10)</b>					
<b>1 Sewers Complete in Place</b>					
1b	410	l.f.	1 1/4-inch HDPE pressure sewers, per linear foot	\$100.00	\$41,000.00
1c	25	l.f.	Insulation for pipelines, per linear foot	\$50.00	\$1,250.00
1d	25	c.y.	Controlled density fill, per cubic yard	\$175.00	\$4,375.00
				<b>SUBTOTAL</b>	<b>\$46,625.00</b>
<b>2 Building Connection Systems</b>					
2c	20	l.f.	4-inch PVC building connections, per linear foot	\$125.00	\$2,500.00
				<b>SUBTOTAL</b>	<b>\$2,500.00</b>
<b>4 Grinder Pumps Complete in Place</b>					
4a	1	grinder pumps	Grinder pump units, per grinder pump	\$10,000.00	\$10,000.00
4b	1	enclosure	H-20 loading grinder pump enclosure, per enclosure	\$7,500.00	\$7,500.00
				<b>SUBTOTAL</b>	<b>\$17,500.00</b>
<b>5 Rock Excavation and Disposal</b>					
5a	25	c.y.**	Rock excavation and disposal, per cubic yard (minimum)	\$60.00	\$1,500.00

ITEM #	QUANTITY	UNIT	DESCRIPTION	UNIT COST	TOTAL AMOUNT
5b	25	c.y.**	Rock excavation and disposal, per cubic yard (additional)	\$0.01	\$0.25
				<b>SUBTOTAL</b>	<b>\$1,500.25</b>
<b>6</b>	<b>Additional Earthwork</b>				
6a	25	c.y.	Earth excavation and backfill below normal grade, per cubic yard	\$20.00	\$500.00
6b	25	c.y.	Earth excavation and backfill above normal grade, per cubic yard	\$10.00	\$250.00
6c	25	c.y.	Test pits, per cubic yard	\$50.00	\$1,250.00
				<b>SUBTOTAL</b>	<b>\$2,000.00</b>
<b>7</b>	<b>Pavement Replacement</b>				
7a	410	l.f.	Temporary trench width pavement (2-inches thick), per linear foot	\$25.00	\$10,250.00
7b	410	l.f.	Permanent binder course trench width pavement (2 1/2-inches thick), per linear foot	\$25.00	\$10,250.00
7c	410	l.f.	Permanent top course trench width pavement (1 1/2-inches thick), per linear foot	\$25.00	\$10,250.00
7d	25	tons	Additional pavement, per ton	\$150.00	\$3,750.00
				<b>SUBTOTAL</b>	<b>\$34,500.00</b>
<b>8</b>	<b>Water and Drain Reconstruction</b>				
8a	2	reconstructions	Water and drain reconstruction within sewer trench limits, per reconstruction	\$1,200.00	\$2,400.00
				<b>SUBTOTAL</b>	<b>\$2,400.00</b>

ITEM #	QUANTITY	UNIT	DESCRIPTION	UNIT COST	TOTAL AMOUNT
9			<b>Mobilization</b>		
9a	1	l.s.	Mobilization, lump sum (not more than 5% of Items 1 to 8)		\$5,851.26
				<b>SUBTOTAL</b>	<b>\$5,851.26</b>
10			<b>Allowances for Services of Uniformed Officers</b>		
10a	200	hours	Uniformed officers for traffic control, per hour	\$50.00	\$10,000.00
				<b>SUBTOTAL</b>	<b>\$10,000.00</b>
			<b>BASE BID (Items 1 to 10) CONTINGENCY: 5%</b>		<b>\$6,143.83</b>
			<b>BASE BID (Items 1 to 10) TOTAL</b>		<b>\$129,020.34</b>
			<b>TOTAL</b>		<b>\$129,020.34</b>



LOCUS MAP  
SCALE: 1"=1000'

DRAWING INDEX	TITLE
SHEET	ABBREVIATIONS, NOTES AND LEGEND
G-1	STANIFORD STREET PLAN AND PROFILE
C-1	RUMFORD AVENUE PLAN AND PROFILE
C-2	CONSTRUCTION ZONE SAFETY PLAN
C-3	DETAILS I
D-1	DETAILS II
D-2	DETAILS III
D-3	

**CITY OF NEWTON, MASSACHUSETTS**  
**DEPARTMENT OF PUBLIC WORKS**  
**1000 COMMONWEALTH AVENUE,**  
**NEWTON CENTRE, MASSACHUSETTS 02459**  
**STANIFORD STREET SEWER EXTENSION**  
**AND RUMFORD AVENUE TRANSFER**  
**STATION GRINDER PUMP**  
**BID INVITATION # - - -**  
**RUTHANNE FULLER, MAYOR**  
**JAMES MCGONAGLE, COMMISSIONER OF PUBLIC WORKS**

**FEBRUARY 2019**



Weston & Sampson Engineers, Inc.  
55 Walkers Brook Drive, Reading, MA 01867



### LEGEND

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	— 5 —	— 8" PVC —
FORCE MAIN	— 14" —	— 6" THU DI —
WATER MAIN	— W —	— 6" W DI —
TEMPORARY WATER	— 0 —	— 4" W —
STORM DRAIN	— 0 —	— 18" D RCP —
GAS	— 0 —	— 4" G —
ELECTRIC	— E —	— E —
TELEPHONE	— T —	— T —
HOUSE CONNECTION		6" HOUSE CONN (TYP)
GRINDER PUMP	○	● GP
SANITARY SEWER MANHOLE	⊙	● SMH
STORM DRAIN MANHOLE	⊙	● SDMH
ELECTRICAL MANHOLE	○	● EMH
TELEPHONE MANHOLE	○	● TMH
AIR RELEASE VALVE MANHOLE	○	● ARMH
FORCE MAIN CLEANOUT MANHOLE	○	● FMCO
CLEANOUT	○	● CO
CATCH BASIN	□	■ CB
CATCH BASIN (CURB INLET)	■	■ CB
HYDRANT	⊠	◆
TEMPORARY HYDRANT	⊠	⊠
GATE VALVE	⊠	⊠
CHECK VALVE	⊠	⊠
CURB STOP	⊠	⊠
BUTTERFLY VALVE	⊠	⊠
BALL VALVE	⊠	⊠
REDUCER	⊠	⊠
CAP OR PLUG	⊠	⊠
GAS GATE VALVE	⊠	⊠
UTILITY POLE	⊠	◆
GUY POLE	⊠	◆
LIGHT POST	⊠	◆
EDGE OF PAVEMENT	—	—
EDGE OF UNPAVED ROAD	—	—
CURB	—	—
SIDEWALK	—	—
RAILROAD	—	—
STONE WALL	—	—
RETAINING WALL	—	—
FENCE	—	—
INDIVIDUAL DECIDUOUS TREE	—	—
INDIVIDUAL EVERGREEN TREE	—	—
TREE LINE	—	—
SURVEY MARKER	—	—
PROPERTY LINE	—	—
EASEMENT LINE	—	—
LIMIT OF WORK	—	—
SPOT ELEVATIONS	x 141.5	x 141.5
CONTOUR LINES	— 56 —	— 56 —
DEPRESSION CONTOUR LINES	—	—
HOUSE NUMBER	#35	#35
FLOOR ELEVATION	FL=56.7	FL=56.7
SILL ELEVATION	S=56.7	S=56.7
WETLAND	—	—
STATE HIGHWAY STATION	○	○
SIGN	—	—
BENCH MARK	—	—
TEST PIT	—	—
BORING	—	—
HAY BALES	—	—
ROCK OUTCROP	—	—
DRAINAGE DITCH / SWALE	—	—

NOTE: ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

### ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACGMP	ASPHALT COATED CORRUGATED METAL PIPE
ARY	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BIT	BITUMINOUS CONCRETE
BLDG	BUILDING
BO	BENCH MARK
BS	BLOW OFF
BY	BARRE STEEL
CAV	BUTTERFLY VALVE
CC	CABLE TELEVISION
CC	CATCH BASIN
CC	CONCRETE CURB
CC	CAST IRON
CC	CENTRIFUGAL
CHP	CEMENT LINED
CONC	CORRUGATED METAL PIPE
CONC	CONCRETE
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN DEPTH FROM RIM TO INVERT
DI	DRAIN MANHOLE
DIA	DIAMETER
DIM	DRAIN MANHOLE
DWG	DRAWING
DWG	EAST, ELECTRIC
E	EACH
EA	EACH FACE
EF	ELEVATION
ELEV	EDGE OF PAVEMENT
EOP	EACH WAY
EW	EXISTING
EXIST	FLANGE
FG	FEET FOOT
FT	NATURAL GAS
G	GALVANIZED
GALV	GRANITE CURB
GC	GRANITE
GR	HOUSE CONNECTION
HC	HORIZONTAL
HORIZ	HIGH PRESSURE
HP	FIRE HYDRANT
HYD	INVERT
I	INVERT
INV	INSIDE DIAMETER
ID	IRON PIPE
ID	ROUND
LB	POUND
LE	LINEAR FEET
LS	LUMP SUM
LUM	MAXIMUM
MAX	MAIL BOX
MB	METROPOLITAN DISTRICT COMMISSION
MDC	MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS
MDP	MECHANICAL
MECH	MANHOLE
MH	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MasgDOT	MINIMUM
MIN	MISCELLANEOUS
MISC	MISCELLANEOUS
MU	MASSACHUSETTS WATER RESOURCES AUTHORITY
MWRA	NORTH
N	NORTH EAST
NE	NORTH WEST
NW	NOT FOUND
NF	NUMBER
NO	OD
NO OR #	OD
PCOP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END, POLYETHYLENE
PL	PROPERTY LINE
PL	POLYVINYL CHLORIDE
PVC	PAVEMENT
PVMT	REINFORCED CONCRETE PIPE
ROP	RIGHT-OF-WAY
ROW	ROCK QUALITY
ROD	SEWER, SOUTH
S	SOUTH EAST
SE	SECTION
SECT	SQUARE FEET
SF	SHEET
SHT	SPECIFICATIONS
SPEC	SQUARE FEET
SQ FT	SEWER SERVICE, STAINLESS STEEL
SS	STA
STA	STL
STL	SW
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
THK	TEMPORARY BENCH MARK
TYP	THICK (NESS)
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
W/O	WITHOUT

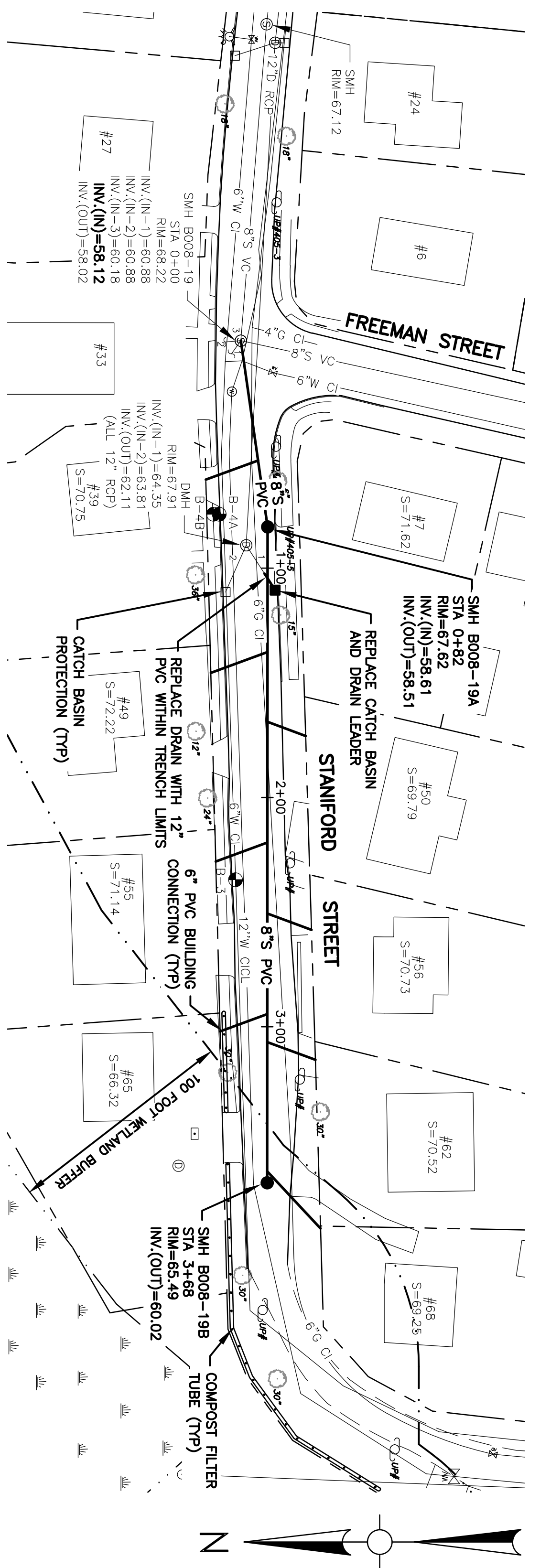
### CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER.
4. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE IDENTICAL TO CONSTRUCTION OF THE PROJECT.
5. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
6. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
7. CONCRETE GRADES OR ARCHES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. UNLESS OTHERWISE INDICATED, CONCRETE USED FOR PIPE ANCHOR BLOCKS, BACKING, PIPE GRADLES, ARCHES, AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
8. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
9. SEWER TRENCHES MAY BE EXCAVATED DEEPER THAN THE 'LIMIT OF EXCAVATION AND PAYMENT FOR EARTH EXCAVATION' ABOVE THE 'LINE OF NARROW TRENCH LIMIT'. ANY SUCH ADDITIONAL EXCAVATION SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL NOT BE MEASURED FOR PAYMENT.
10. BELOW THE 'LINE OF NARROW TRENCH LIMIT' THE TRENCH SHOULD NOT BE EXCAVATED BEYOND THE TRENCH WIDTH 'W' IF MATERIAL IS LOOSENED OR TRENCH BEYOND THE ABOVE MENTIONED LIMITS. THE CONTRACTOR WILL BE REQUIRED TO FILL AND CRUSHED STONE FOR THE FULL WIDTH OF THE TRENCH AT NO ADDITIONAL COST TO THE OWNER.
11. SHEETING TO BE LEFT IN PLACE SHALL BE USED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. IT SHALL BE LEFT IN PLACE AT A DEPTH NOT LESS THAN TWO (2) FEET BELOW FINISH GRADE UNLESS OTHERWISE REQUIRED BY THE ENGINEER.
12. FOUR FOOT INSIDE DIAMETER MANHOLES SHALL BE USED WITH SEWERS LESS THAN 24 INCHES IN DIAMETER, AND FIVE FOOT INSIDE DIAMETER MANHOLES SHALL BE USED IN DIAMETER, UNLESS OTHERWISE SPECIFIED.
13. OPENINGS FOR PIPE IN PRECAST MANHOLE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
14. FORM BRICK INVERTS IN MANHOLES WITH BRICK ON EDGE TO A DEPTH OF 0.8 INSIDE DIAMETER OF PIPE AND FORM A 1 INCH SLOPED BENCH WITH BRICK FLAT. INVERT SHALL BE SLOPED UNIFORMLY BETWEEN INLET AND OUTLET PIPE AND SHALL BE FORMED AND FILLED AS REQUIRED TO DIRECT THE FLOW AS INDICATED AND TO PREVENT DEPOSITION OF SOLIDS.
15. IN PAVED AREAS THE TOP OF THE MANHOLE COVER SHALL BE SET FLUSH WITH THE PAVED SURFACE. IN OTHER AREAS THE TOP OF THE COVER SHALL EXTEND 6 INCHES ABOVE FINISHED GRADE, OR AS SHOWN ON THE DRAWINGS, OR AS REQUIRED BY THE ENGINEER.
16. SEWER CHIMNEY AND HOUSE CONNECTION LOCATIONS ARE SHOWN FOR ESTIMATING PURPOSES, AND ARE APPROXIMATE IN LOCATION. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
17. PROTECTION OF WATER SUPPLIES - WHENEVER A SEWER MUST CROSS UNDER A WATER MAIN, THE SEWER SHALL BE LAD AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER TO PROVIDE THIS SEPARATION OR THE CONTRACTOR SHALL CONSTRUCT THE NEW SEWER OF CLASS 150 PRESSURE PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER MAIN. ONE FULL LENGTH OF CLASS 150 PRESSURE PIPE SEWER SHOULD BE CENTERED ON THE WATER MAIN AS MUCH AS POSSIBLE. THE SEWER CONSTRUCTED OF THE PRESSURE PIPE MUST BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS.
18. CALCULATION OF PIPE SLOPES IS BASED ON ELEVATION CHANGES DIVIDED BY THE DISTANCE BETWEEN THE OUTSIDE EDGES OF THE MANHOLE WALLS. FOR FOUR FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE CENTERLINE STATIONING MINUS FIVE FEET. FOR FIVE FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE CENTERLINE STATIONING MINUS SIX FEET. 'N' INDICATES UPSTREAM END OF MANHOLE, 'O' INDICATES DOWNSTREAM END OF MANHOLE.
19. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH NON-SKID STEEL PLATES. STEEL PLATES SHALL BE RECESSED AND COLD PATCHED BETWEEN NOVEMBER 1ST AND APRIL 30TH.
20. REFERENCE ELEVATIONS ARE ASSUMED FOR EACH LOCATION.
21. WATER SERVICE CONNECTIONS AND GAS SERVICE CONNECTIONS HAVE NOT BEEN INCLUDED ON THE PLAN VIEWS OR PROFILE VIEWS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF WATER SERVICE CONNECTIONS AND GAS SERVICE CONNECTIONS AS NECESSARY TO PERFORM THE WORK.
22. THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC TO ALL STREETS THROUGHOUT THE DURATION OF THE PROJECT.
23. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF MASSACHUSETTS GENERAL LAW CHAPTER 82A, TRENCH EXCAVATION AND SAFETY REQUIREMENTS TO PREVENT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES.
24. CONTRACTOR SHALL MEET WITH NEWTON POLICE DEPARTMENT PRIOR TO EXCAVATION WORK. ROAD CLOSURES AND DETOURS TO BE AS REQUIRED BY NEWTON POLICE DEPARTMENT.
25. CONTRACTOR SHALL NOTIFY RESIDENTS IN PROXIMITY TO EXCAVATIONS, AND SHALL POST NO PARKING SIGNS, AS REQUIRED BY NEWTON POLICE DEPARTMENT.
26. PAVEMENT REPLACEMENT RELATED TO BUILDING CONNECTIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT BE SEPARATELY MEASURED FOR PAYMENT.

**Weston & Sampson**  
 Weston & Sampson Engineers, Inc.  
 55 Walkers Brook Drive, Reading, MA 01867  
 978.532.1900 800.SAMPSON  
 www.westonandsampson.com

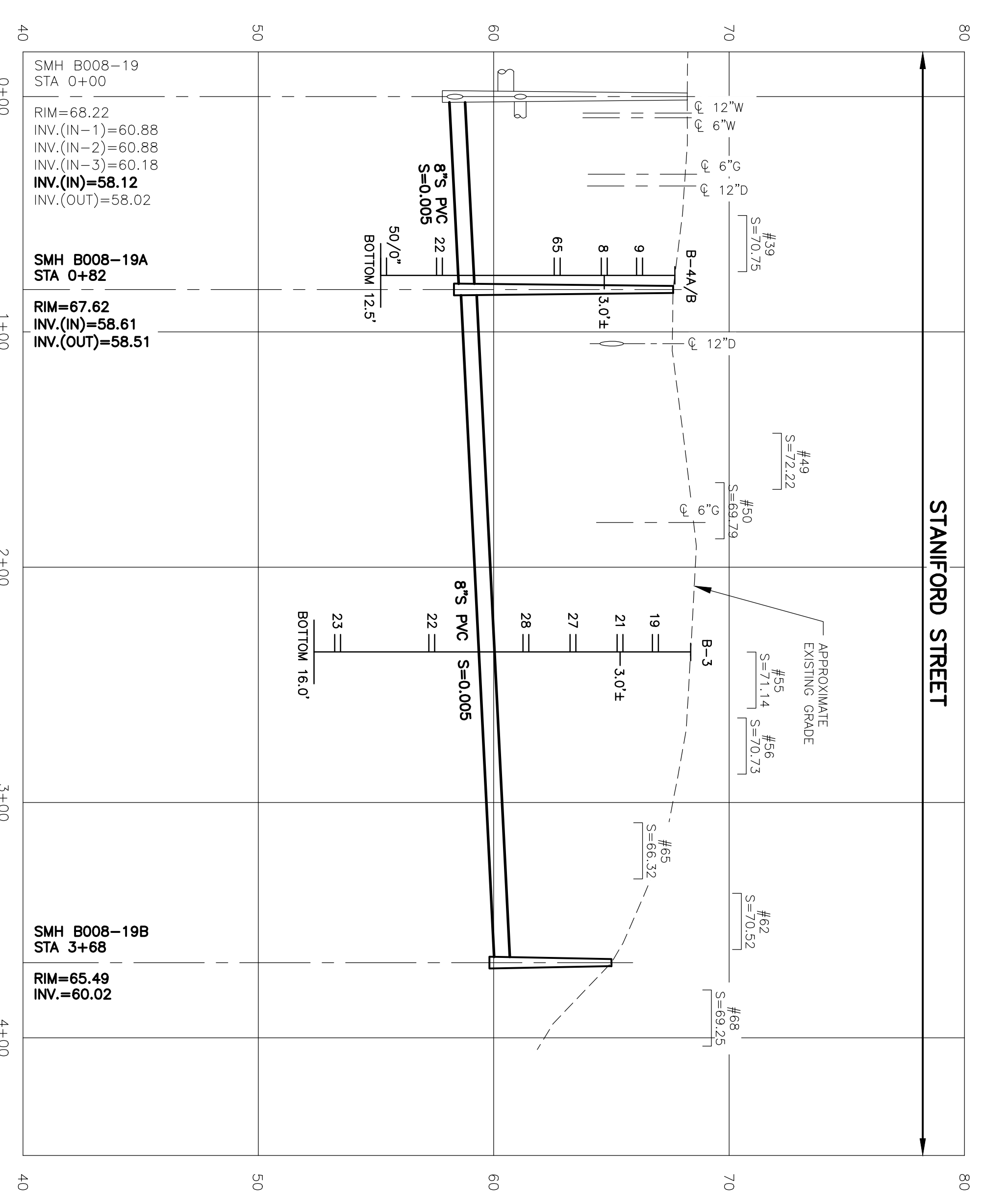
No.	Date	Dr.By	Ck.By	App.By	Description
		A	P	P	R O V E D
					REGISTERED PROFESSIONAL ENGINEER
					DATE

CITY OF NEWTON, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS						
STANFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP						
ABBREVIATIONS, NOTES, AND LEGEND						
FILE NO.	CADD NO.	SCALE:	CONTRACT:	JOB NO.	DR.BY	DSN.BY
-	G-1	AS NOTED		2180692	RWS	MJD
					CHK.BY	APP.BY
					PAT	DME

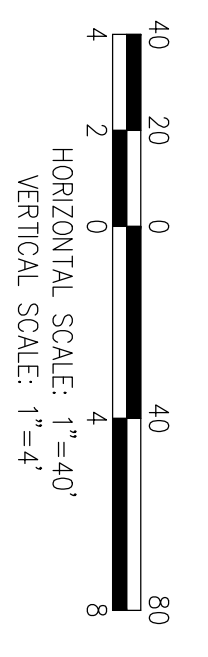


NOTE:  
1. SMH B008-19 IS A BRICK MANHOLE.

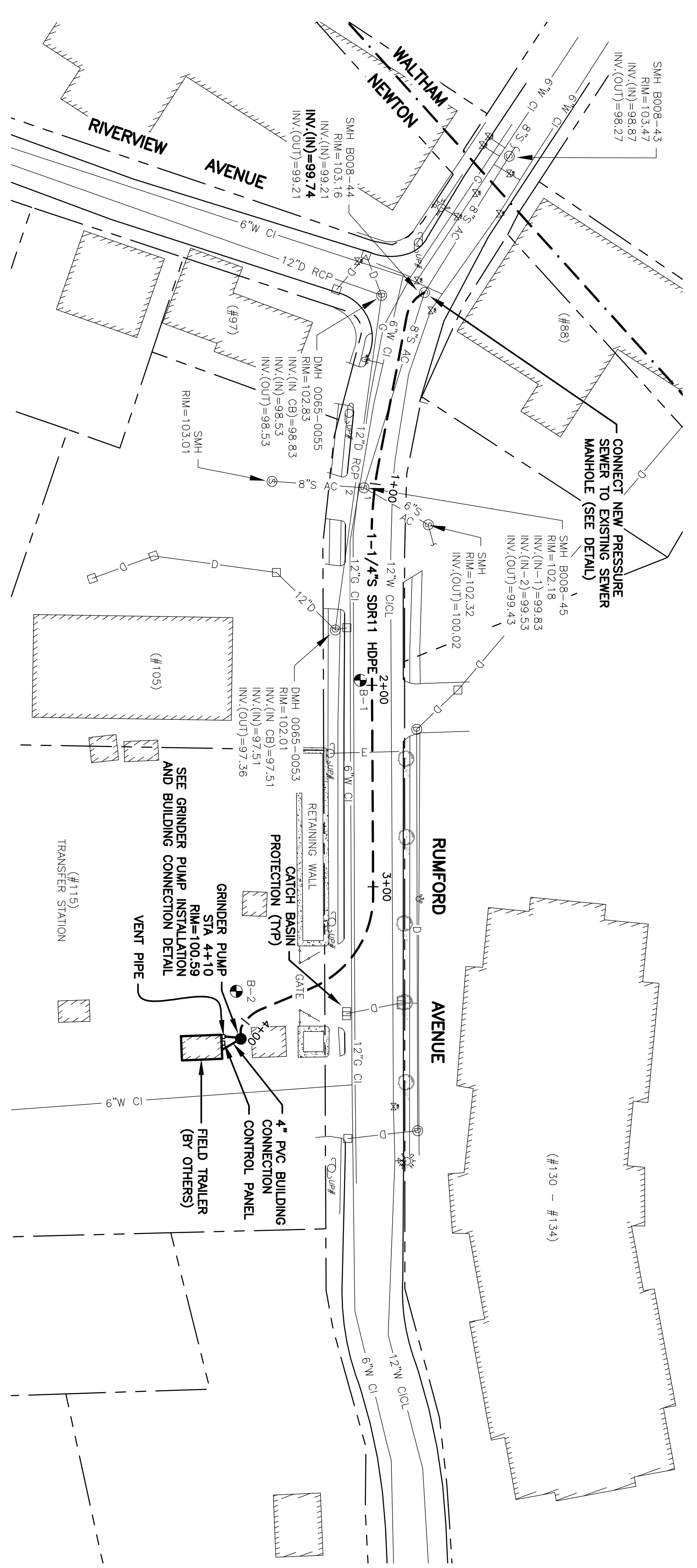
PLAN  
SCALE: 1" = 40'



PROFILE  
SCALE: 1" = 40' HORIZ  
1" = 4' VERT

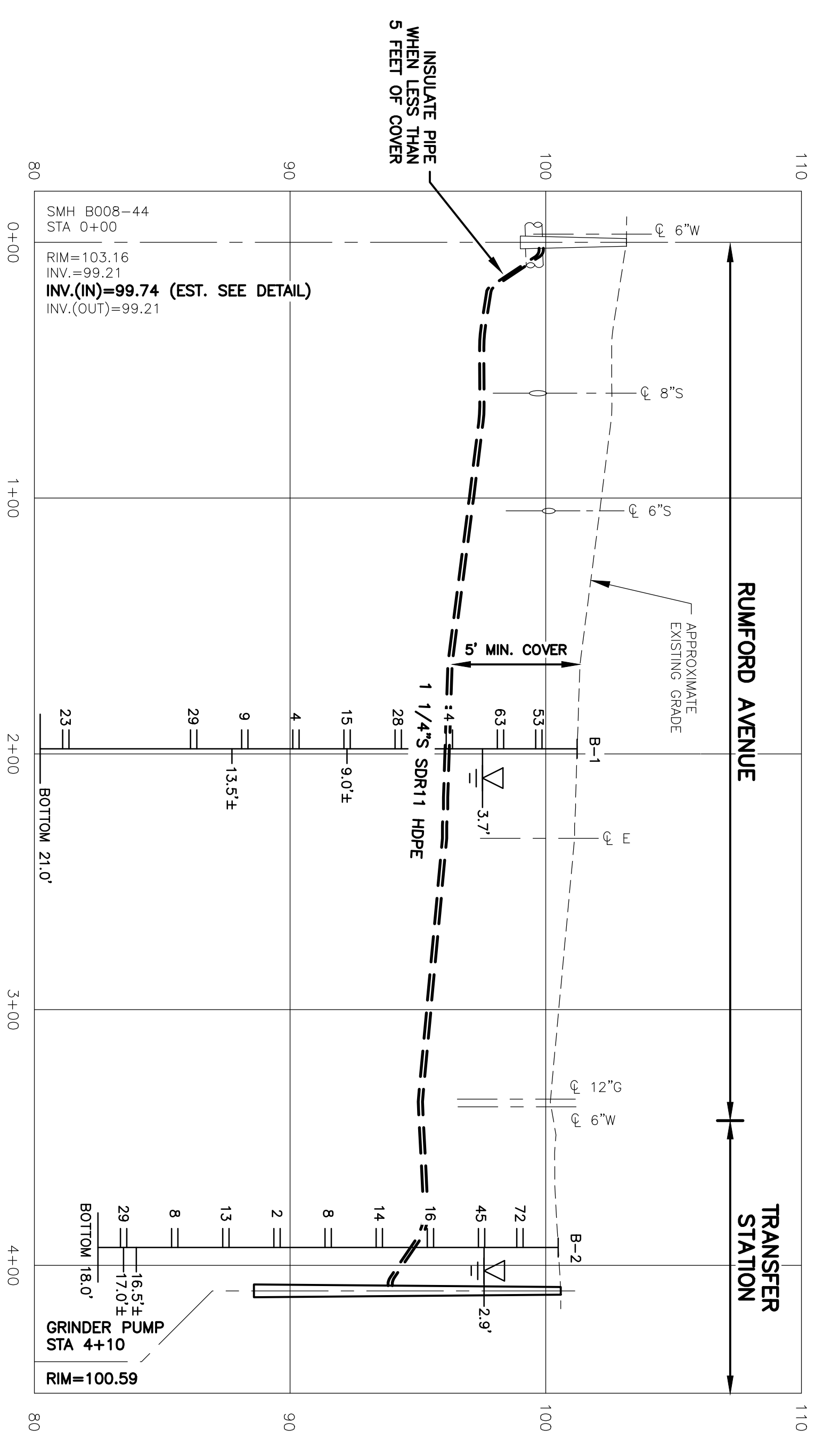
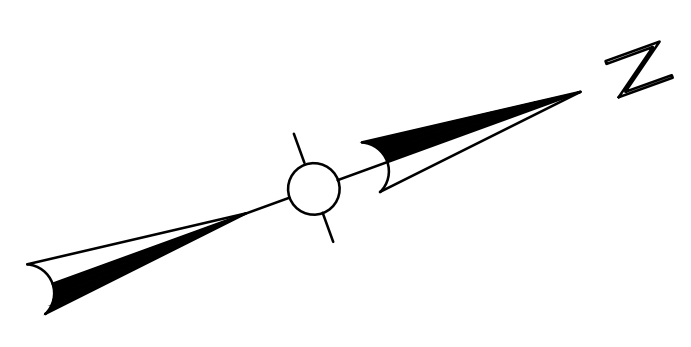


CITY OF NEWTON, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS		<b>STANFORD STREET PLAN AND PROFILE</b>			
STANFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP					
FILE NO.	CADD NO.	SCALE:	CONTRACT:	JOB NO.	DR.BY
	STANFORD ST	AS NOTED		2180692	RWS
				DSN.BY	CHK.BY
				MJD	PAT
				APP.BY	DME
			REGISTERED PROFESSIONAL ENGINEER		
			DATE		
		Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Reading, MA 01867 978.532.1900 800.SAMPSON www.westonandsampson.com			

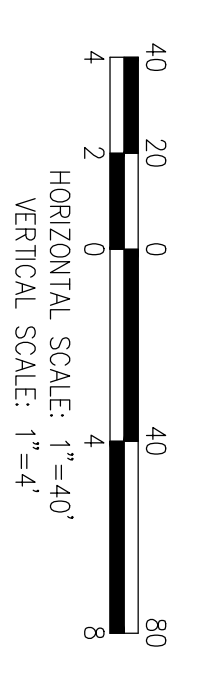


**PLAN**  
SCALE: 1" = 40'

**NOTE:**  
1. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH THE CITY OF NEWTON AND FIELD TRAILER CONTRACTOR.



**PROFILE**  
SCALE: 1"=40' HORIZ  
1"=4' VERT



CITY OF NEWTON, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS		<b>RUMFORD AVENUE PLAN AND PROFILE</b>		WESTON & SAMPSON Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Reading, MA 01867 978.532.1900 800.SAMPSON www.westonandsampson.com	
FILE NO.	CADD NO.	SCALE: AS NOTED	CONTRACT:	JOB NO. 2180692	DR. BY RWS
DSN. BY MJD	CHK. BY PAT	APP. BY DME	No. Date Dr. By Ck. By App. By Description A P P R O V E D REGISTERED PROFESSIONAL ENGINEER DATE		

**TEMPORARY TRAFFIC SIGN SUMMARY**

MUTCD CODE	SIZE OF SIGN	WIDTH	HEIGHT	SIGN
W1-4L	30"	30"	30"	ROAD CLOSED AHEAD
W1-4R	30"	30"	30"	ROAD CLOSED AHEAD
W20-1	36"	36"	36"	WORK AHEAD
W20-4	36"	36"	36"	ONE LANE AHEAD
W20-8	36"	36"	36"	NO TRAFFIC AHEAD
G20-2	36"	36"	18"	CONSTRUCTION

**NOTE:**

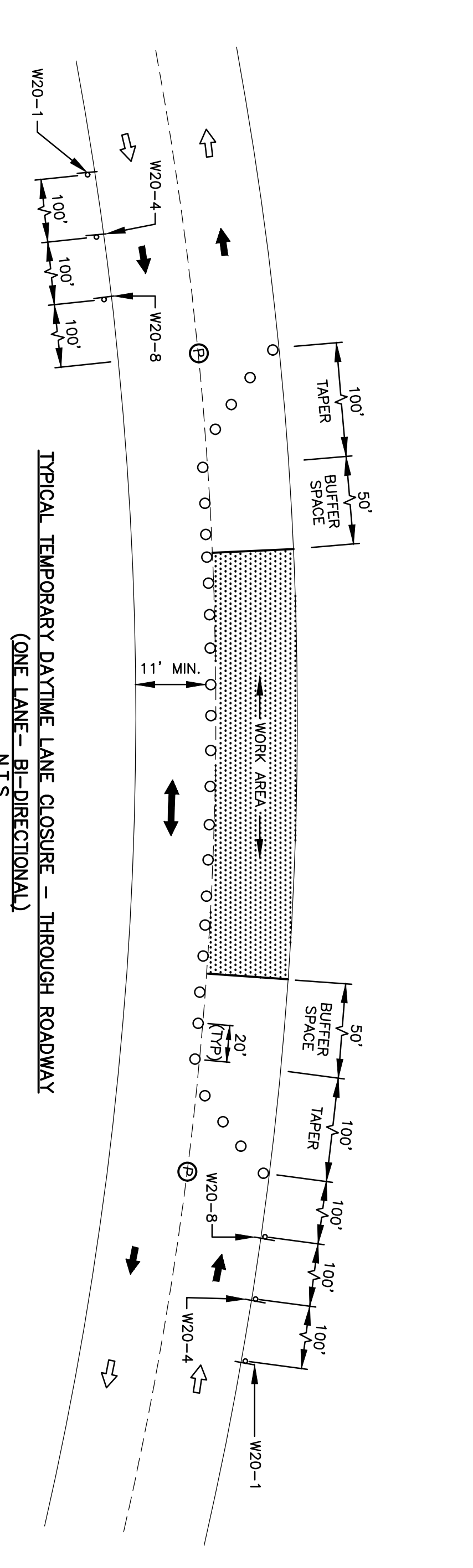
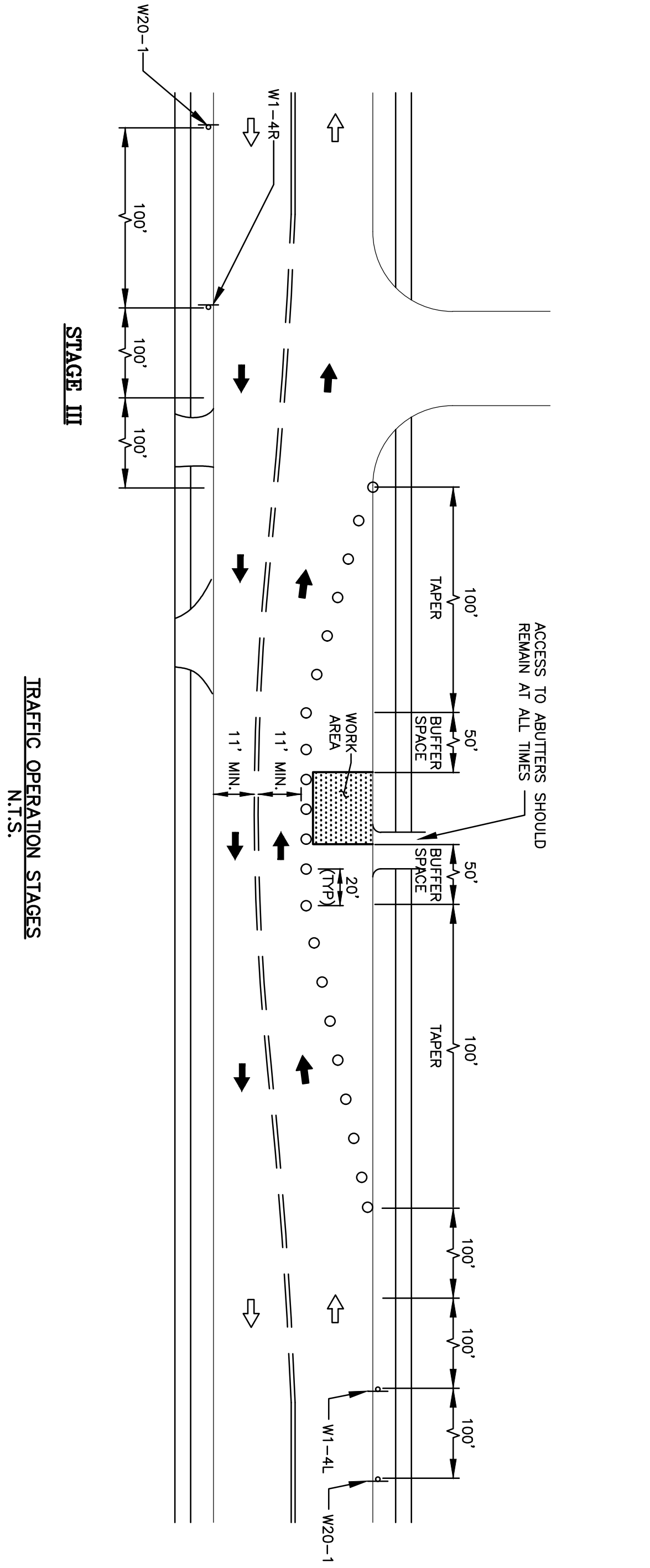
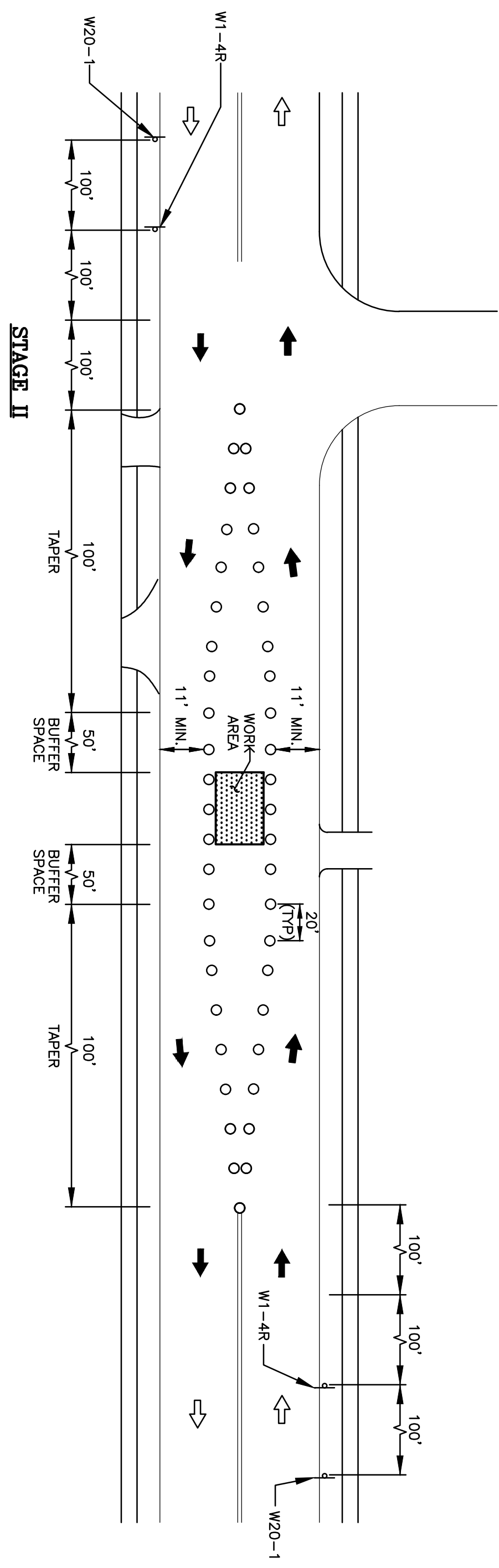
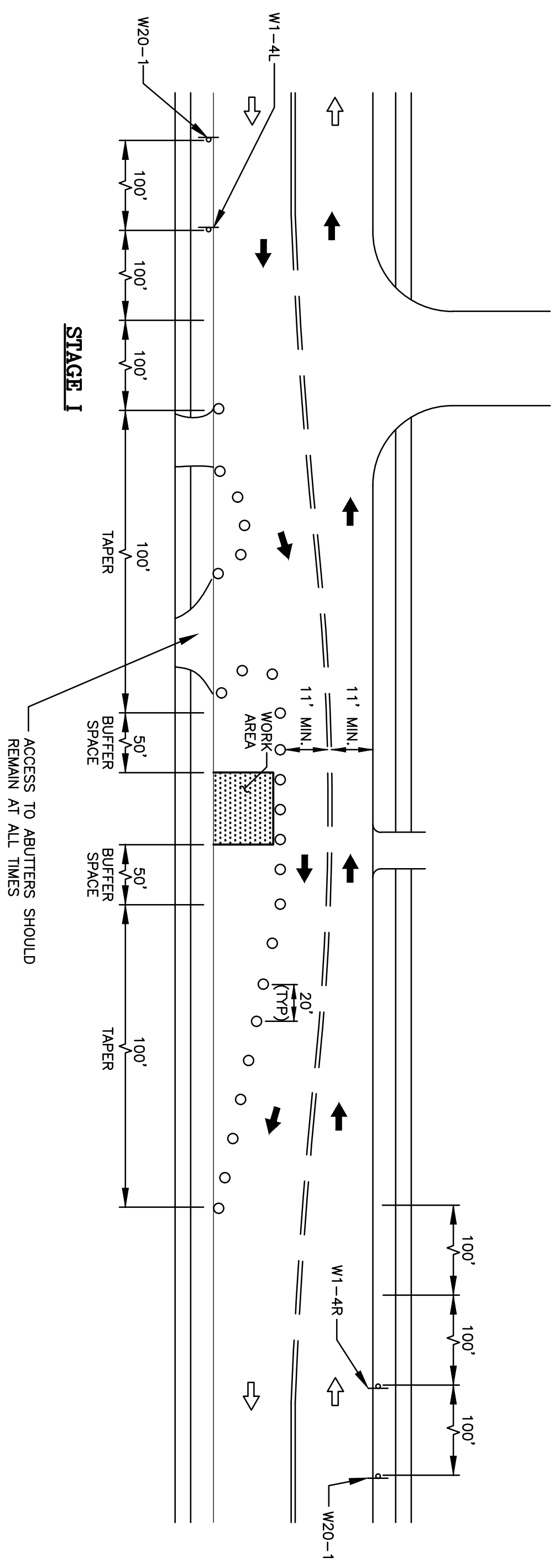
1. FOR THE LATEST SPECIFICATION ON TEXT DIMENSIONS AND COLOR, CONTRACTOR SHALL REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).

**LEGEND:**

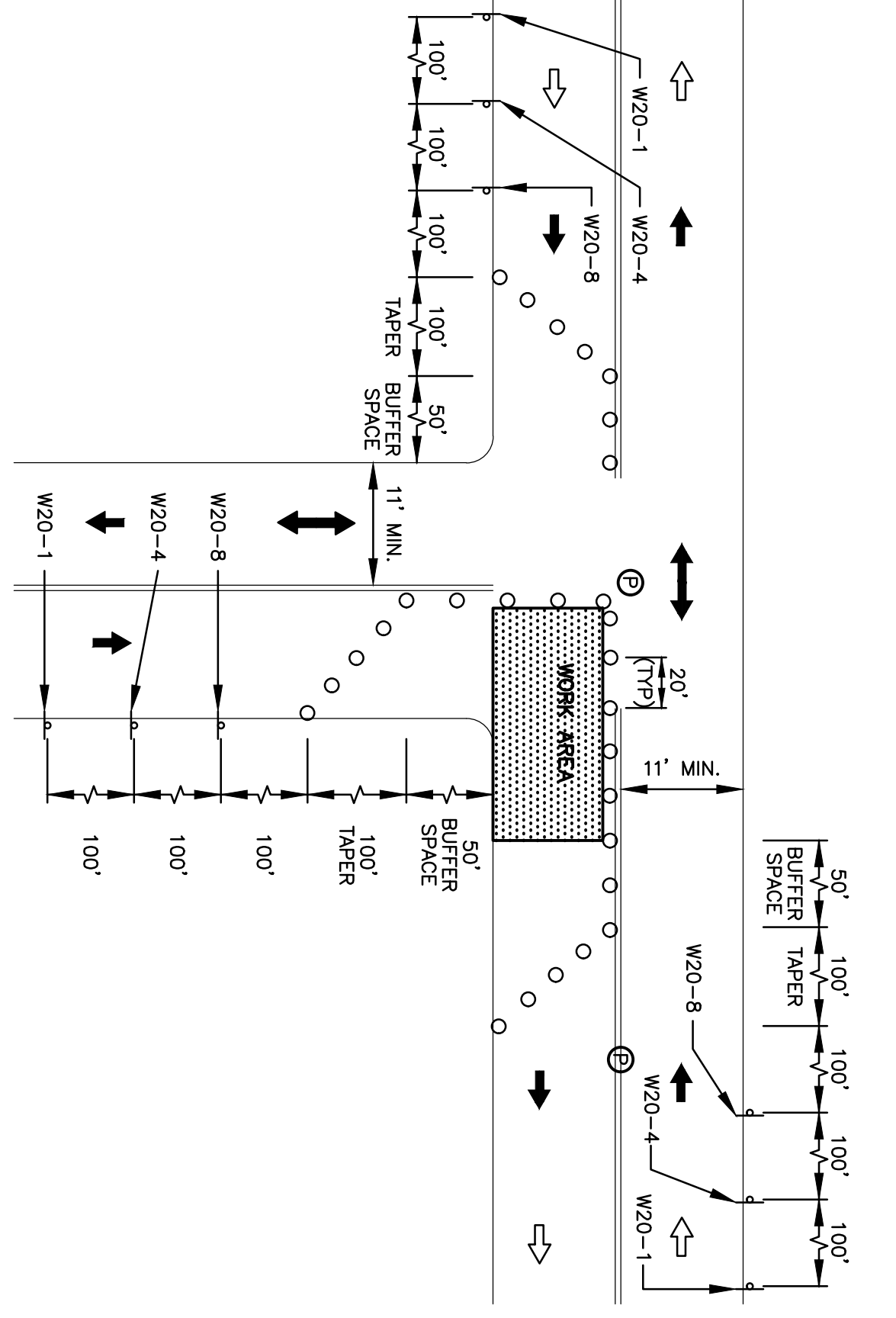
○	REFLECTORIZED DRUM
➔	TRAFFIC FLOW DURING CONSTRUCTION
⇄	NORMAL TRAFFIC FLOW
Ⓜ	POLICE DETAIL OFFICER
Ⓢ	CONSTRUCTION SIGN
▨	WORK AREA

**GENERAL NOTES:**

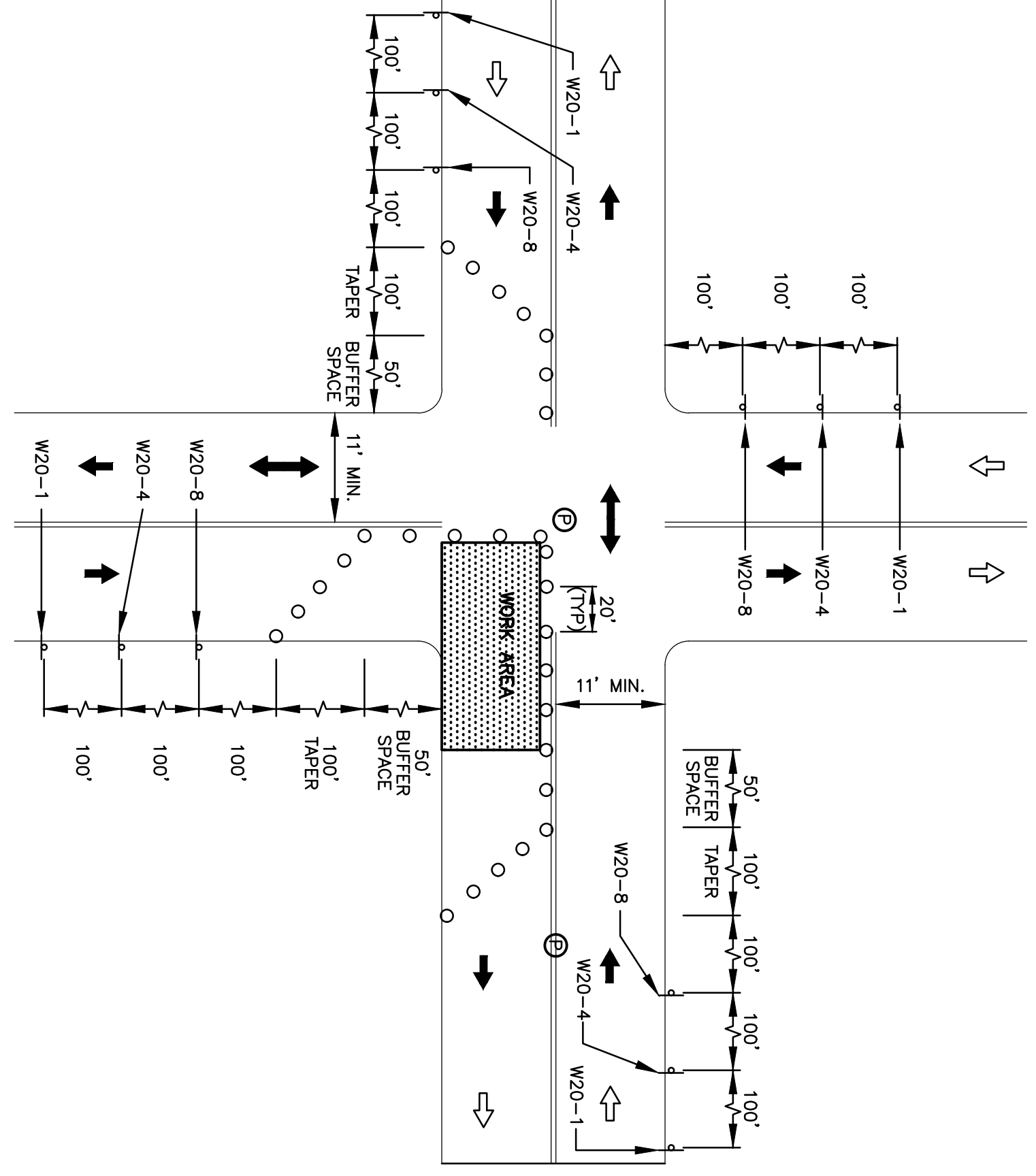
1. PLACEMENT OF ALL CONSTRUCTION SIGNS, DRUMS, BARRICADES, TRAFFIC DEVICES AND THE SHAPE, SIZE & COLOR OF ALL TEMPORARY TRAFFIC SIGNS SHALL CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. ADVANCE WARNING SIGN PLACEMENT AND TAPER LENGTH TO BE ADJUSTED ACCORDING TO STREET CONDITIONS AND DRIVEWAY OPENINGS.
3. ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES.
4. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
5. NON-ESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS.
6. PEDESTRIANS SHALL BE PROVIDED WITH ACCESS AND SAFE PASSAGE THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE AT ALL TIMES.
7. W20-8 SHALL BE TAKEN DOWN OR COVERED AFTER EACH WORKING DAY OR WHEN OTHERWISE NOT APPLICABLE, OR WHEN POLICE OFFICERS ARE NOT PRESENT TO DIRECT TRAFFIC.
8. ADVISORY SPEED PLATES (M13-1) - SEE CURRENT EDITION OF MUTCD) SHALL BE USED IF APPLICABLE AND AS REQUIRED BY THE ENGINEER.
9. NO DIFFERENCE IN ROADWAY LANE ELEVATION WILL BE ALLOWED AT THE END OF THE WORK DAY.
10. SAMPLE TRAFFIC PLANS INCLUDED ON THIS PLAN SHEET ARE BASED ON AN URBAN (LOW SPEED) ROAD TYPE FROM THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
11. DASHED LINES SHOW LANE DESIGNATIONS TO BE USED DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL SUBMIT ANY REVISIONS TO THE CONSTRUCTION ZONE SAFETY PLAN TO THE ENGINEER FOR APPROVAL.
13. THIS CONSTRUCTION ZONE SAFETY PLAN SHALL NOT RELIEVE THE CONTRACTOR OF HIS SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.

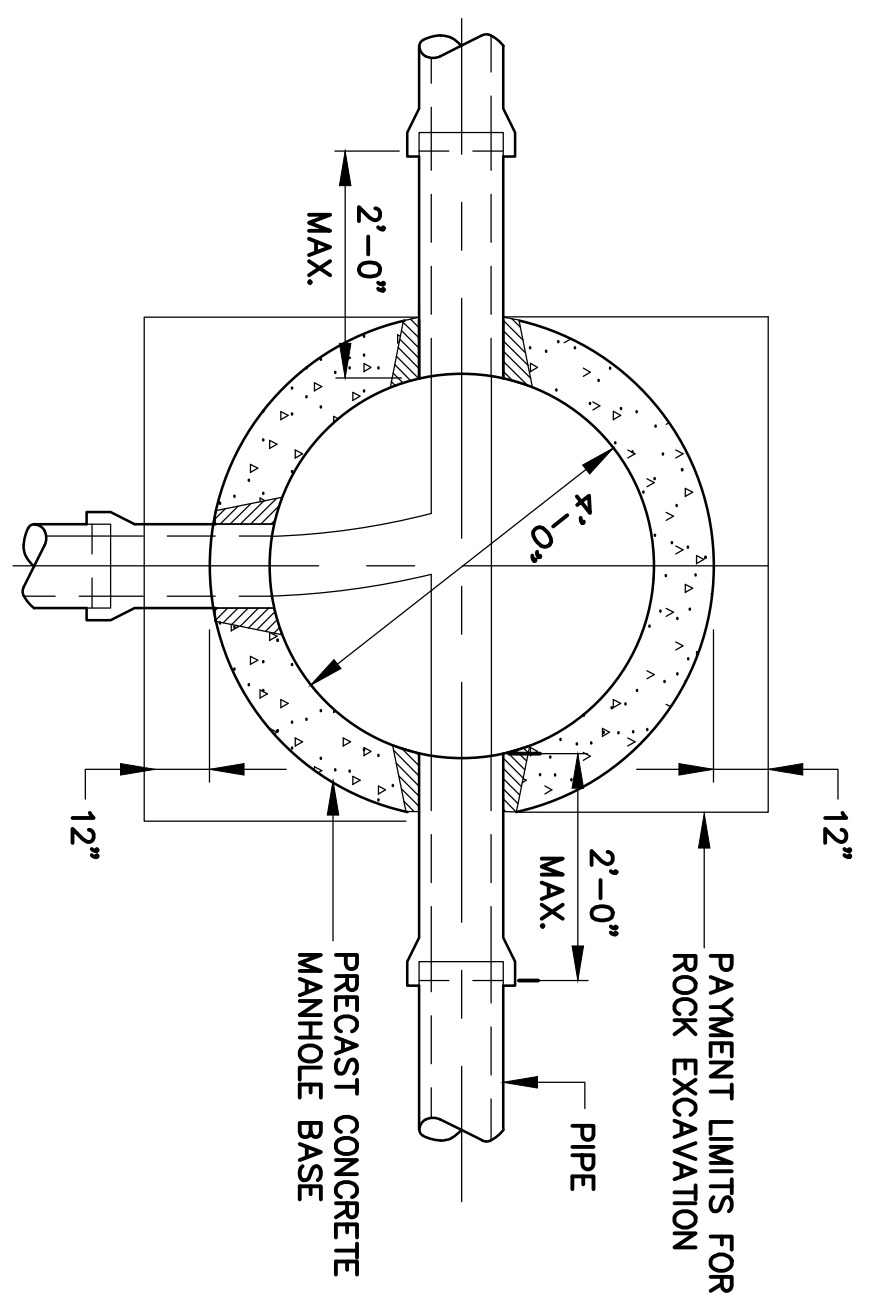


**INTERSECTION LANE CLOSURE N.T.S.**

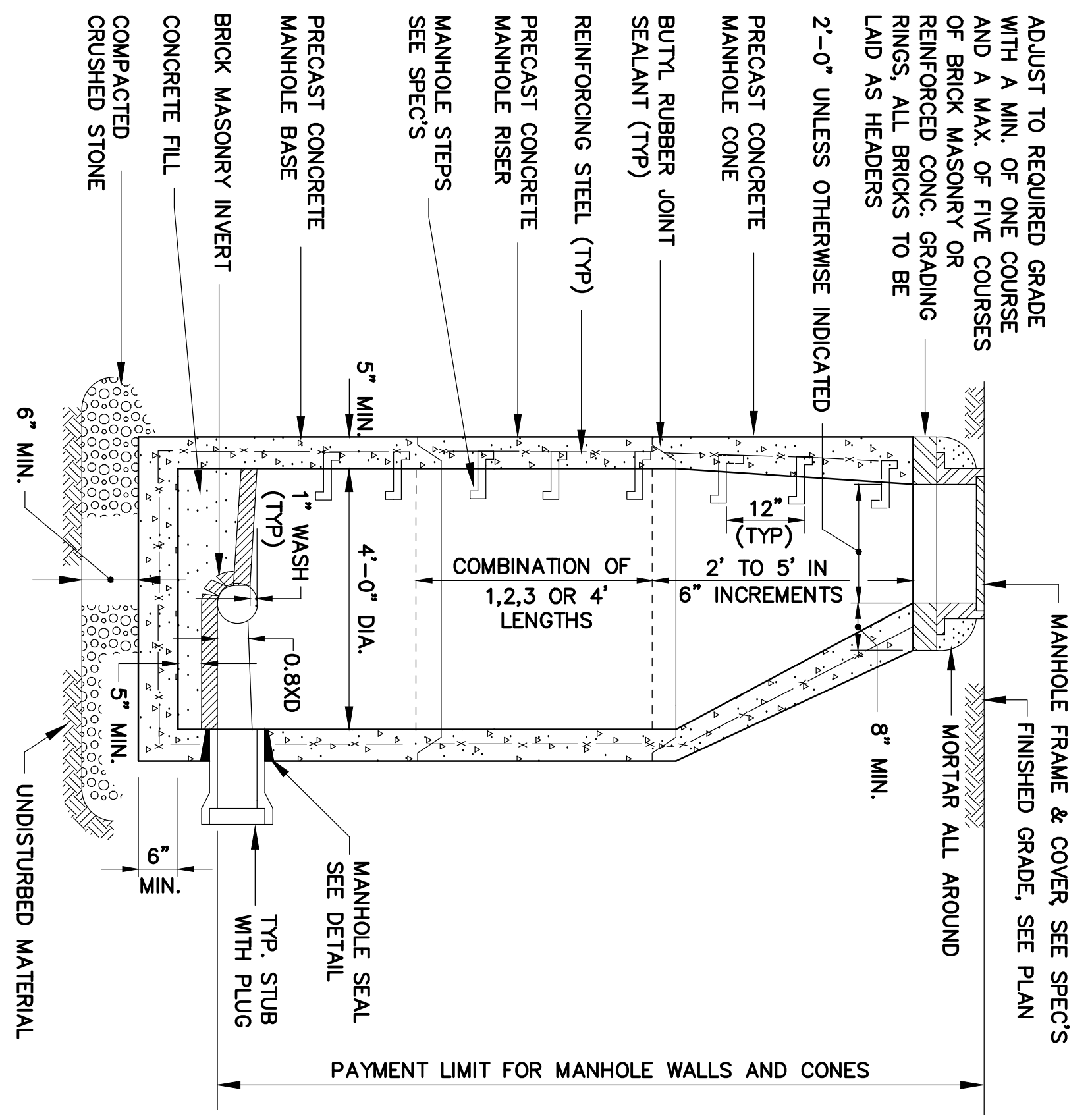


**CLOSURE AT END OF INTERSECTION N.T.S.**

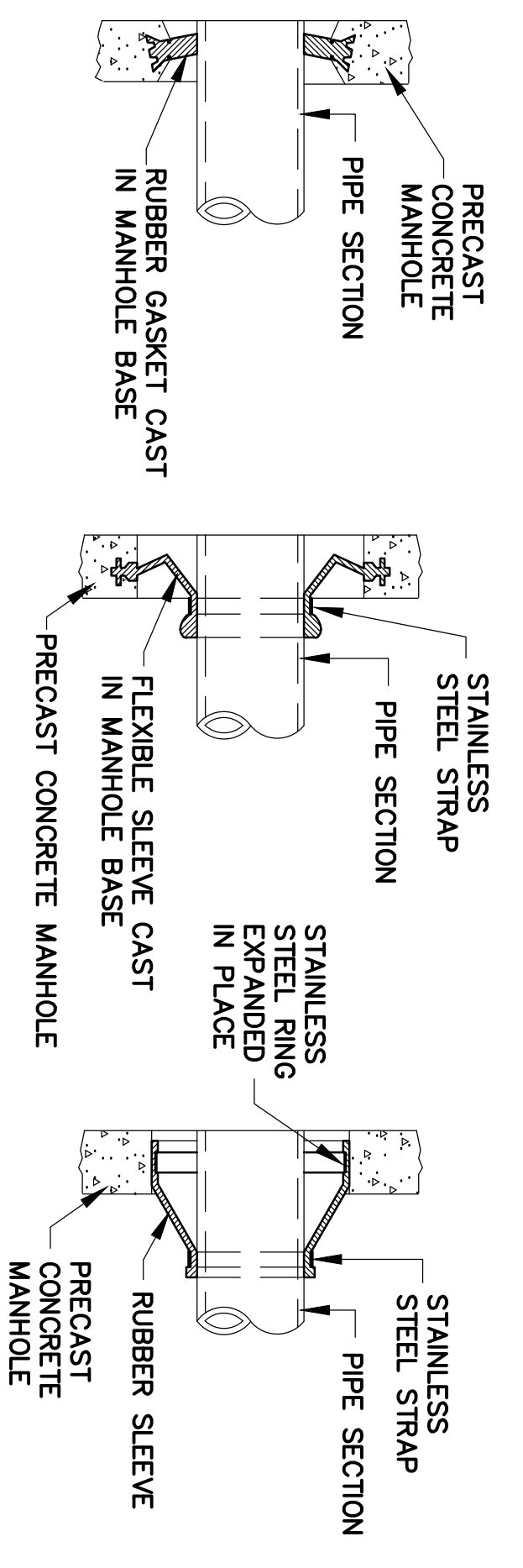




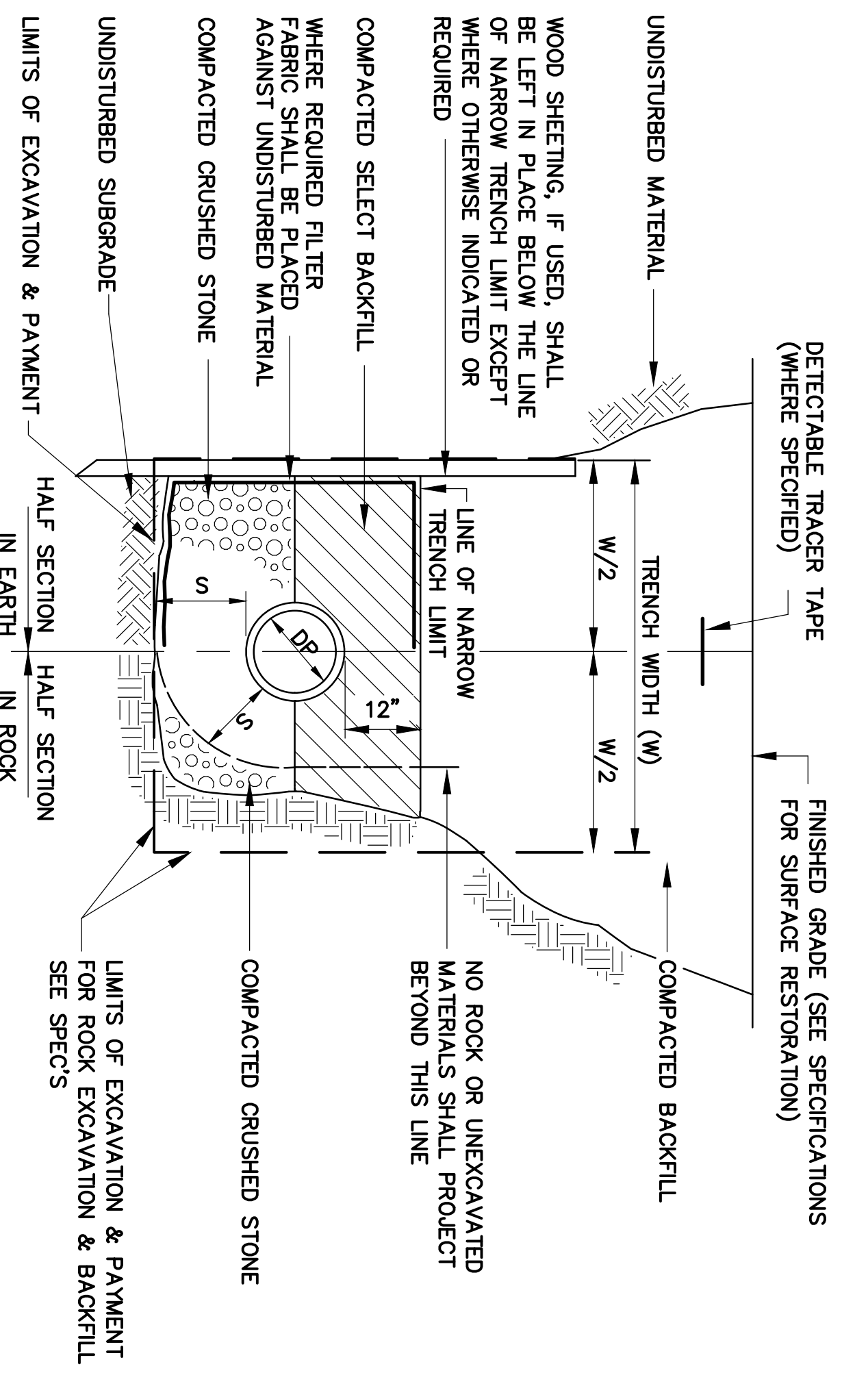
**4'-0" DIA. MANHOLE PLAN**  
N.T.S.



**4'-0" DIA. PRECAST CONCRETE MANHOLE DETAIL**  
N.T.S.



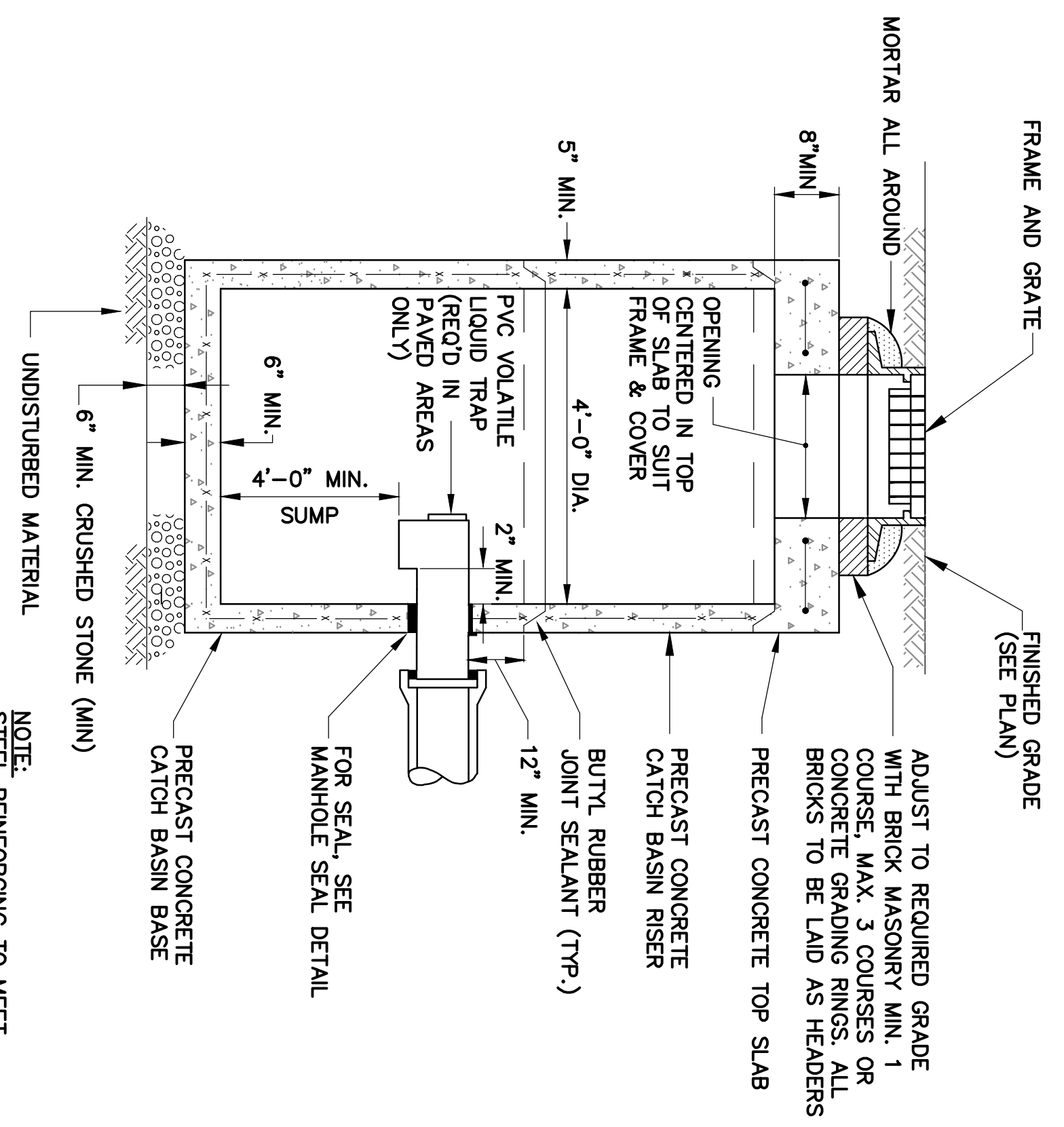
**MANHOLE SEAL DETAILS**  
N.T.S.



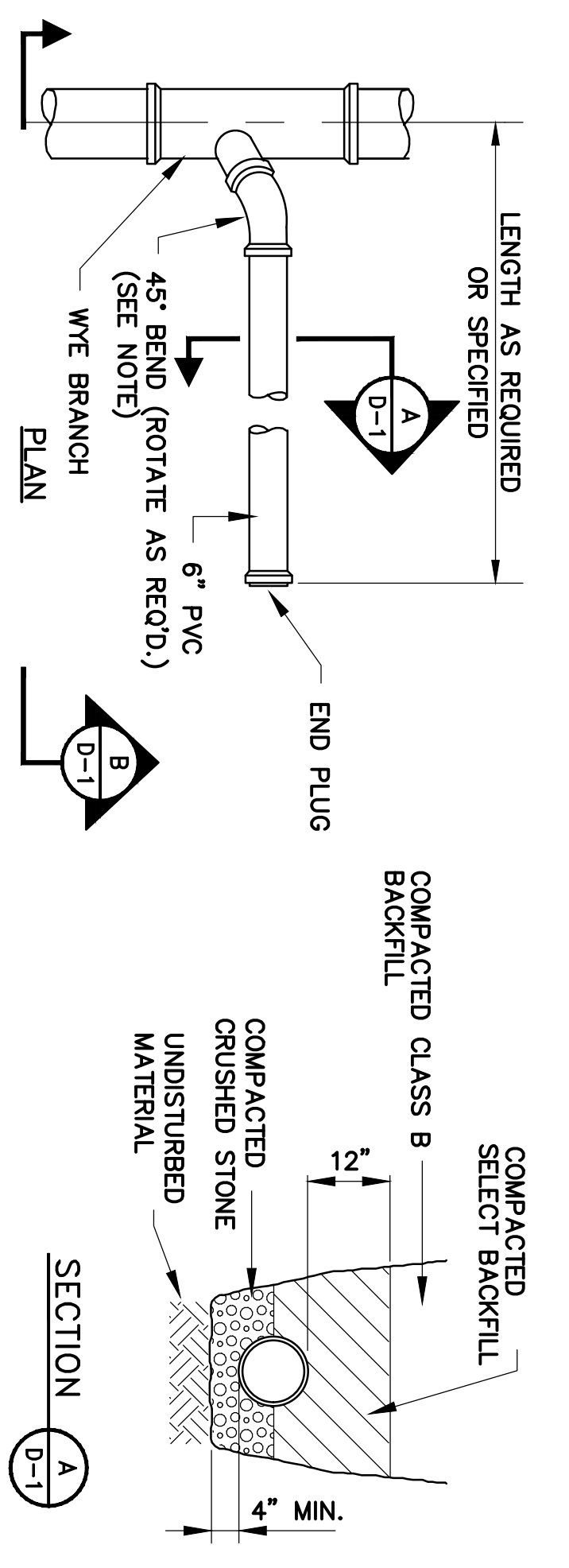
**TRENCH DETAIL**  
N.T.S.

DEPTH TO INVERT	DIAMETER OF PIPE (DP)	MAXIMUM TRENCH WIDTH BELOW LINE OF NARROW TRENCH LIMIT (SHELTED OR UNSHELTED) (W)	MINIMUM CLEARANCE (S)
0-12"	TO 18"	21"-24"	6"
0-12"	TO 18"	21"-24"	5"
OVER 12"	TO 18"	21"-24"	7"
OVER 12"	TO 18"	21"-24"	7'-1/2"

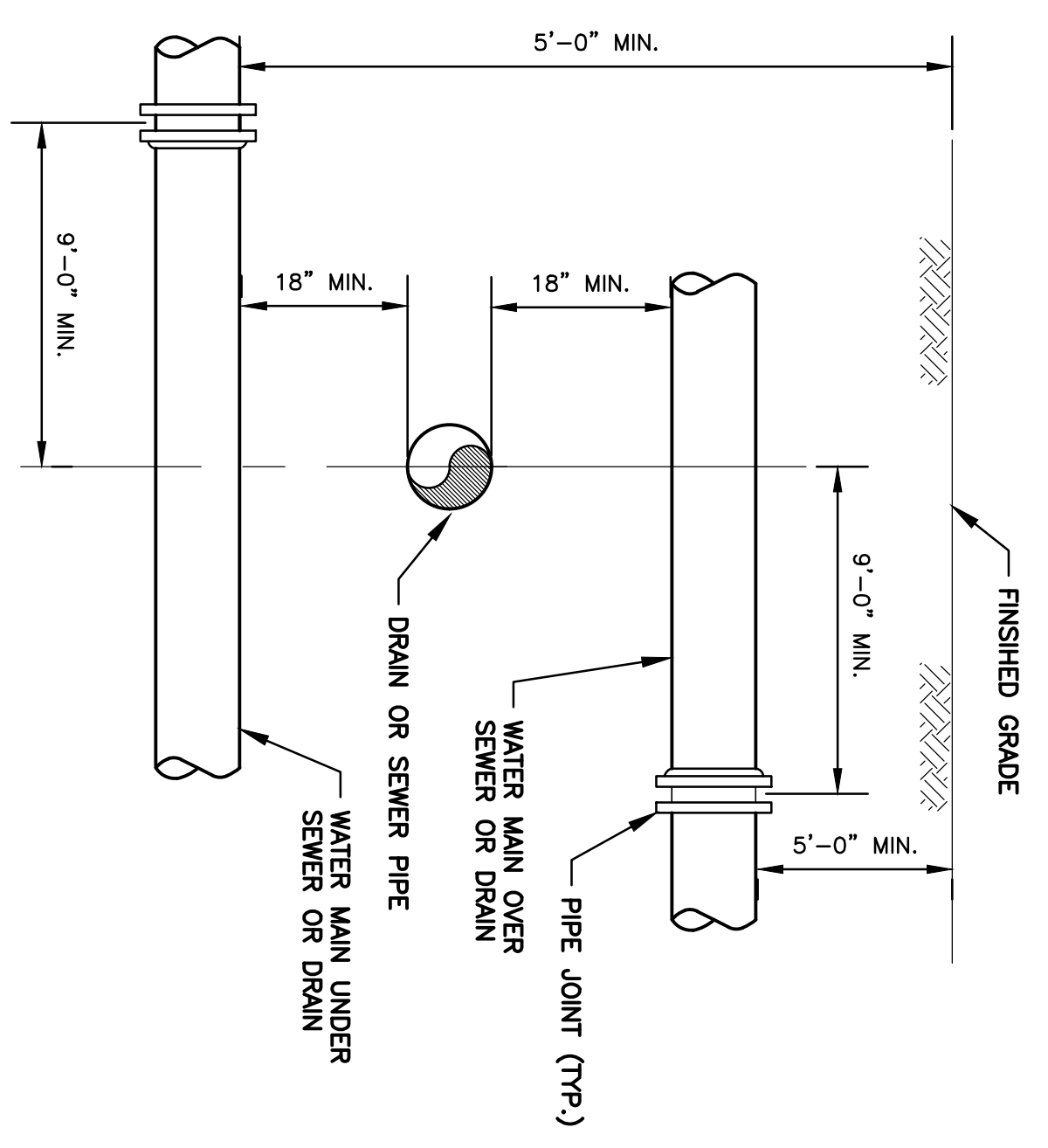
**TABLE A**



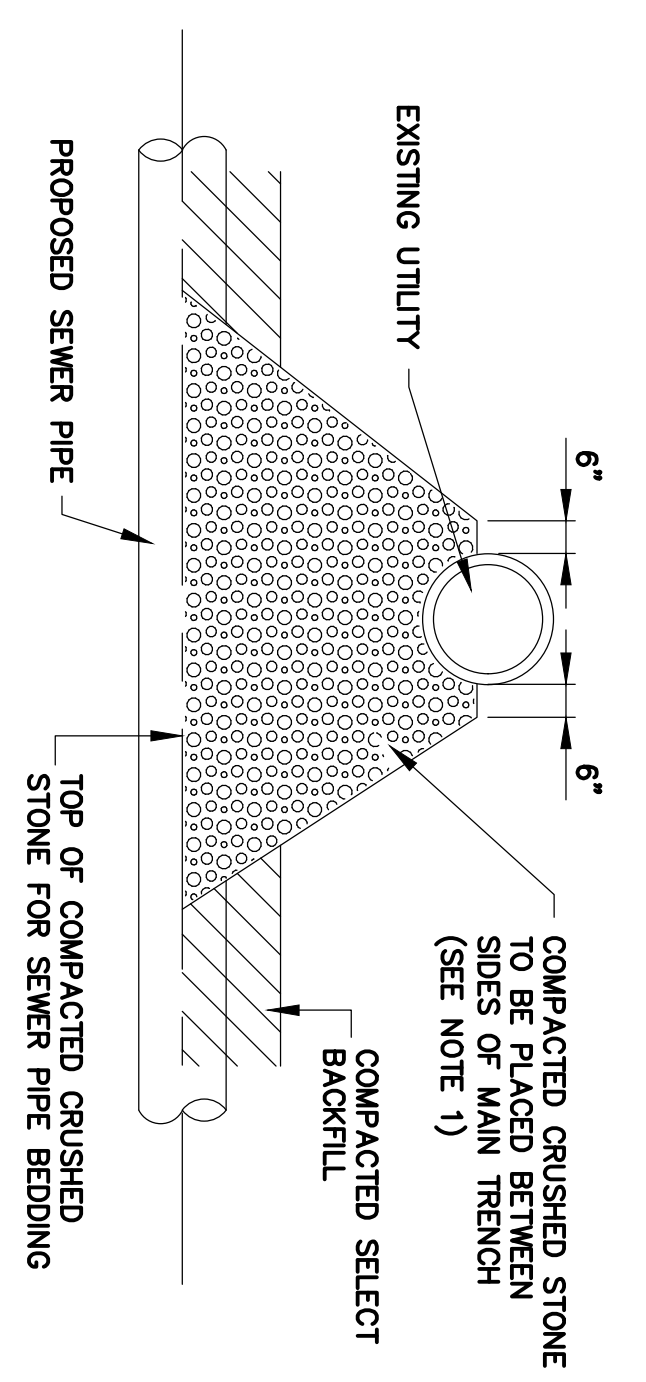
**PRECAST CATCH BASIN DETAIL**  
N.T.S.



**TYPICAL BUILDING CONNECTION DETAIL**  
N.T.S.



**SEWER OR DRAIN CROSSING DETAIL**  
N.T.S.



**UTILITY CROSSING DETAIL**  
N.T.S.

No.		Date	Dr. By	Ck. By	App. By	Description
A		P	P	R	O	V E D

REGISTERED PROFESSIONAL ENGINEER DATE

**Weston & Sampson**  
Weston & Sampson Engineers, Inc.  
55 Walkers Brook Drive, Reading, MA 01867  
978.532.1900 800.SAMPSON  
www.westonandsampson.com

CITY OF NEWTON, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS

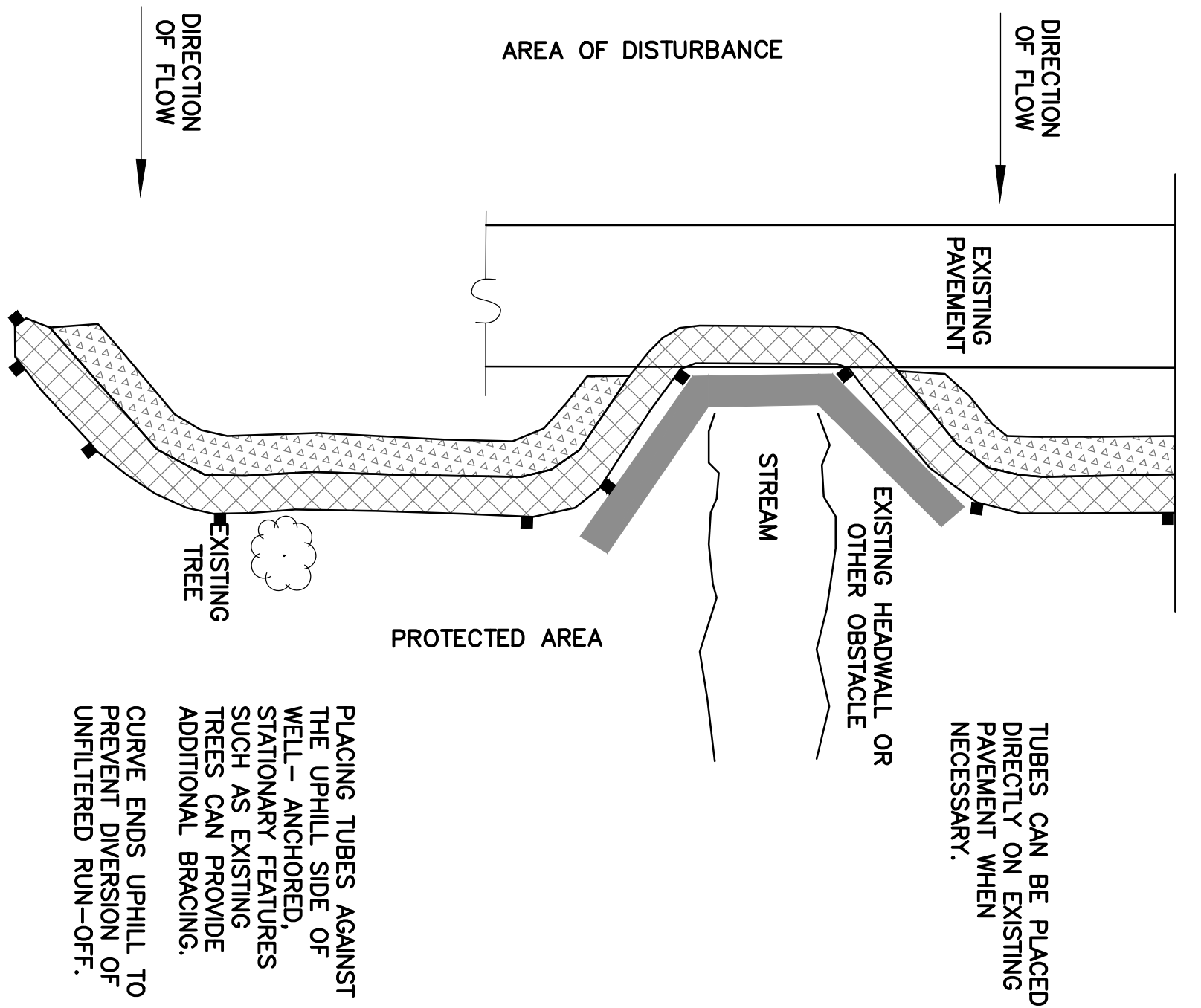
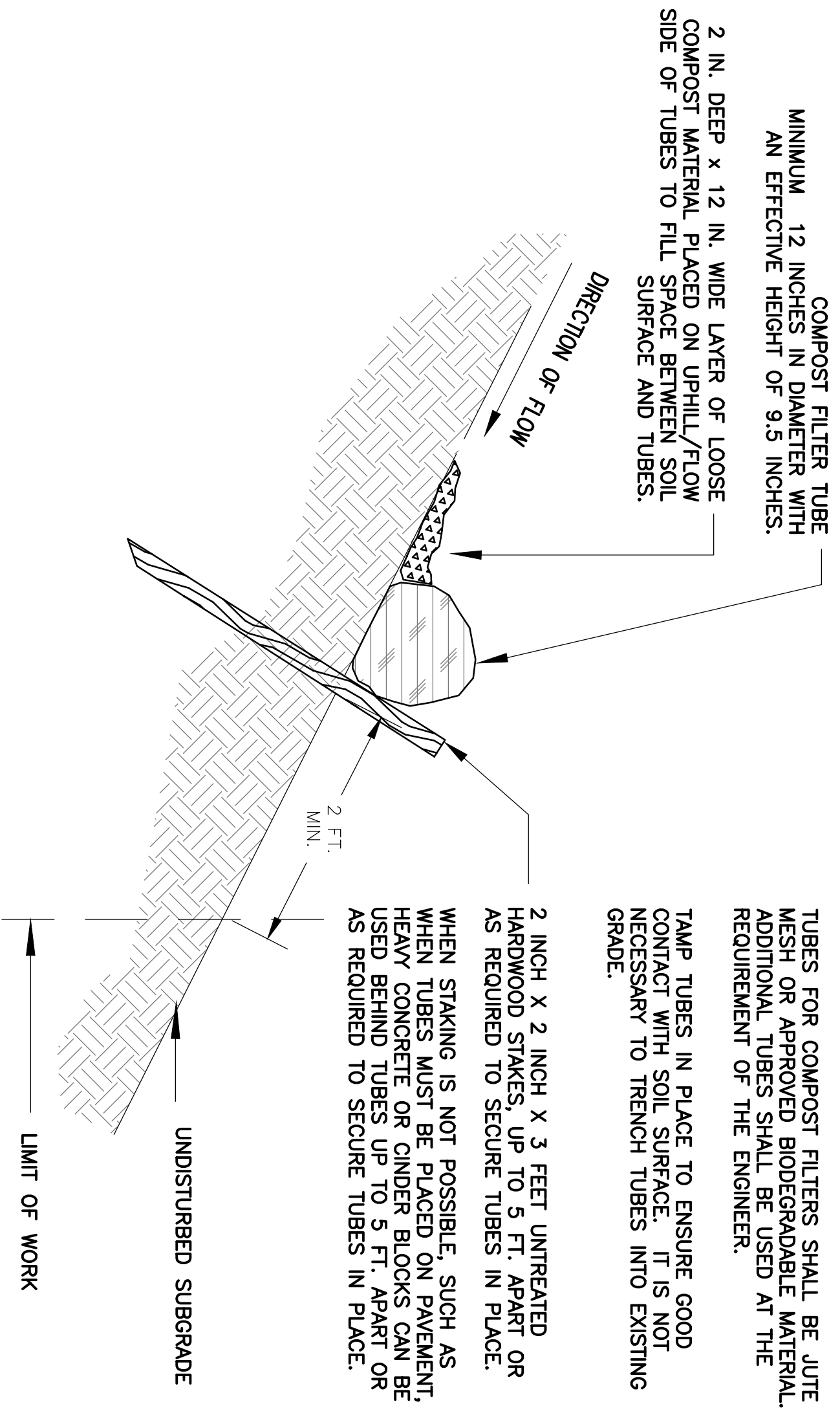
STANFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP

**DETAILS I**

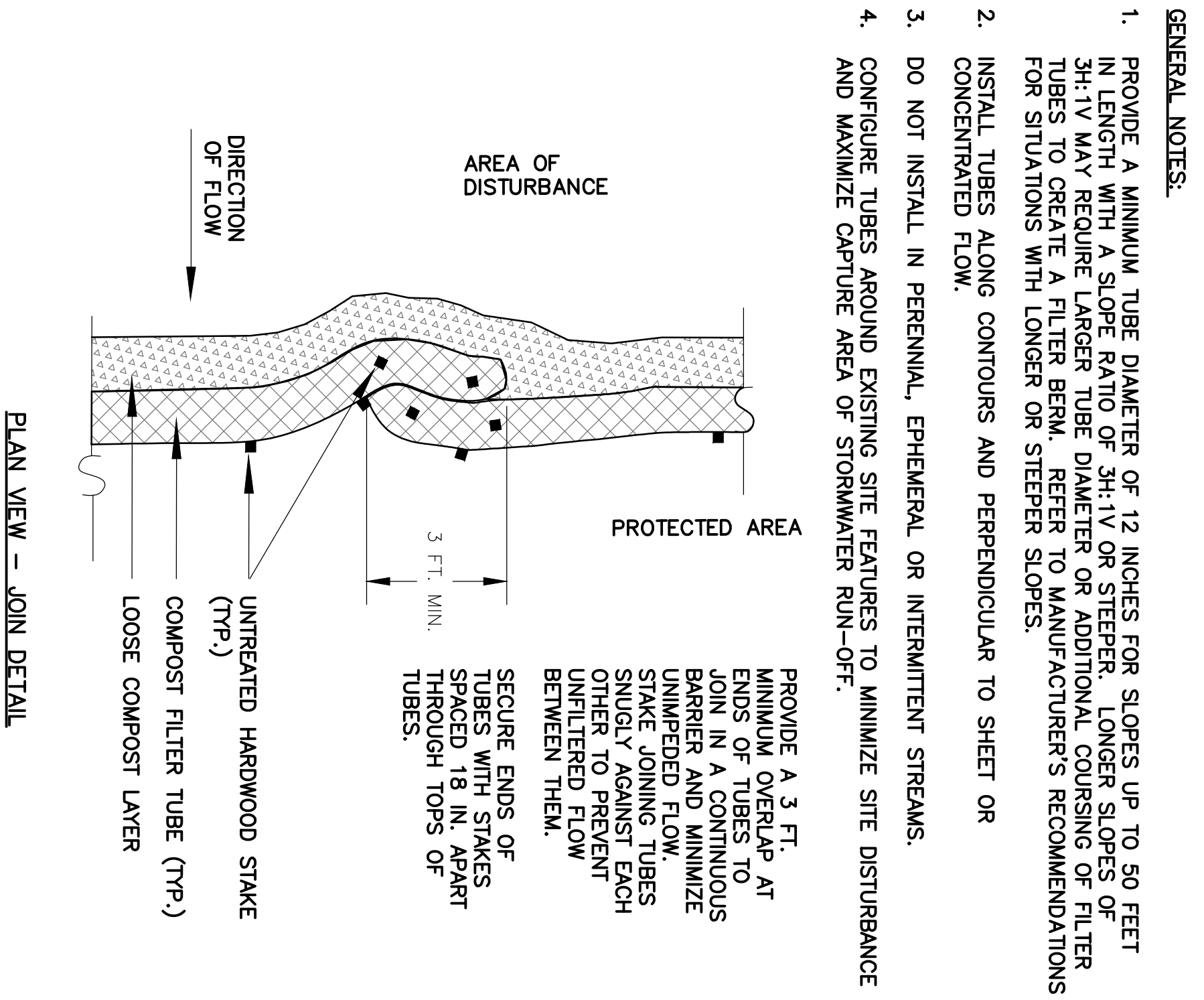
FILE NO.	CADD NO.	SCALE: AS NOTED	CONTRACT:	JOB NO. 2180692	DR. BY RWS	DSN. BY MJD	CHK. BY PAT	APP. BY DME
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**6-1**

SHEET 6 OF 8

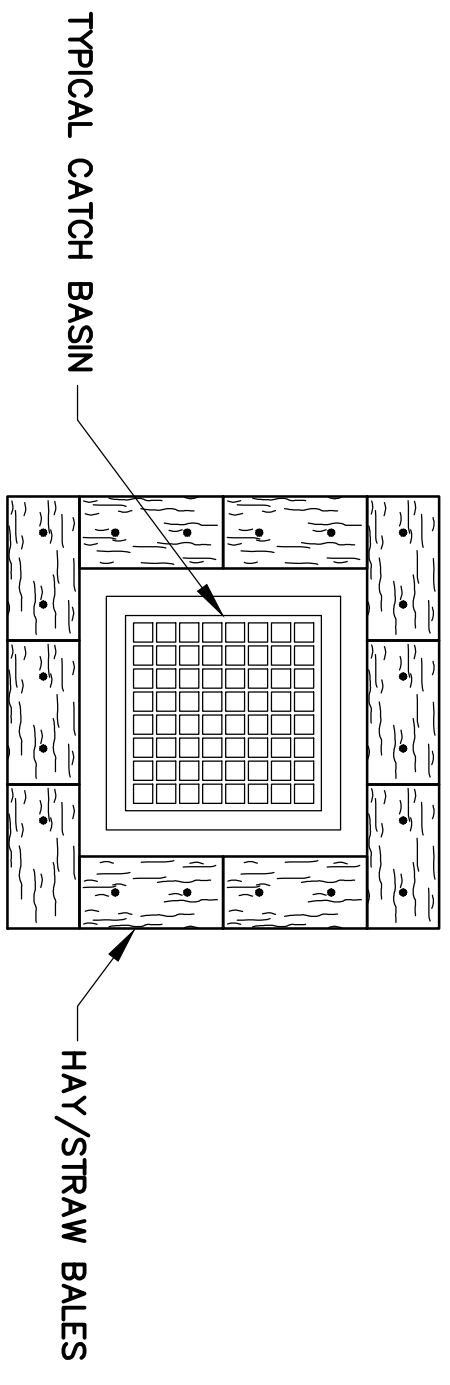
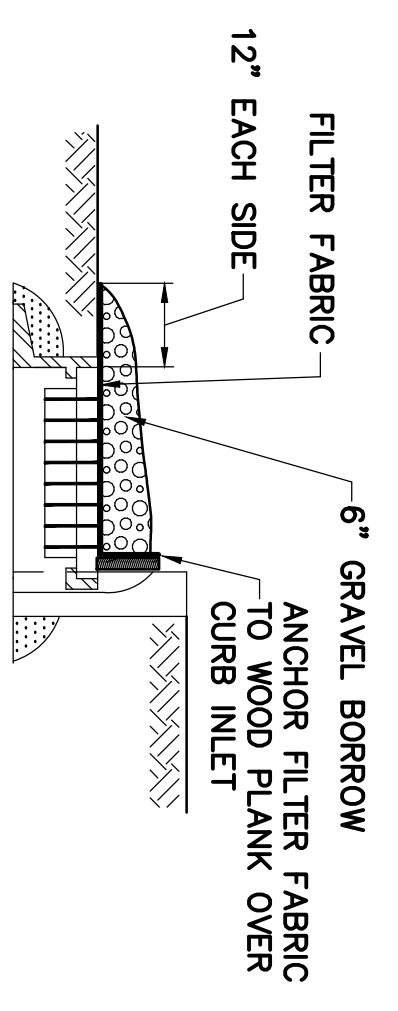
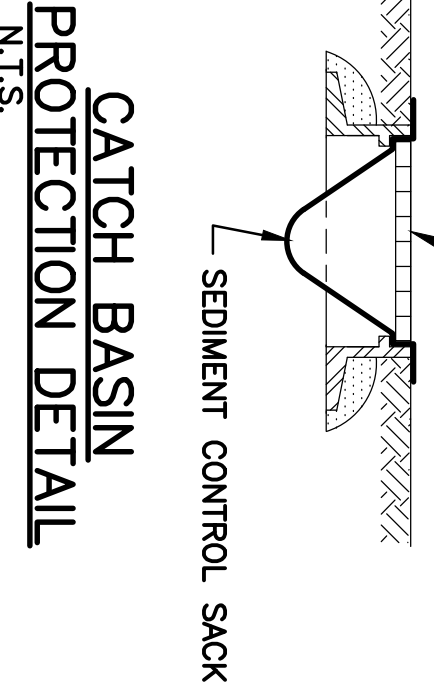
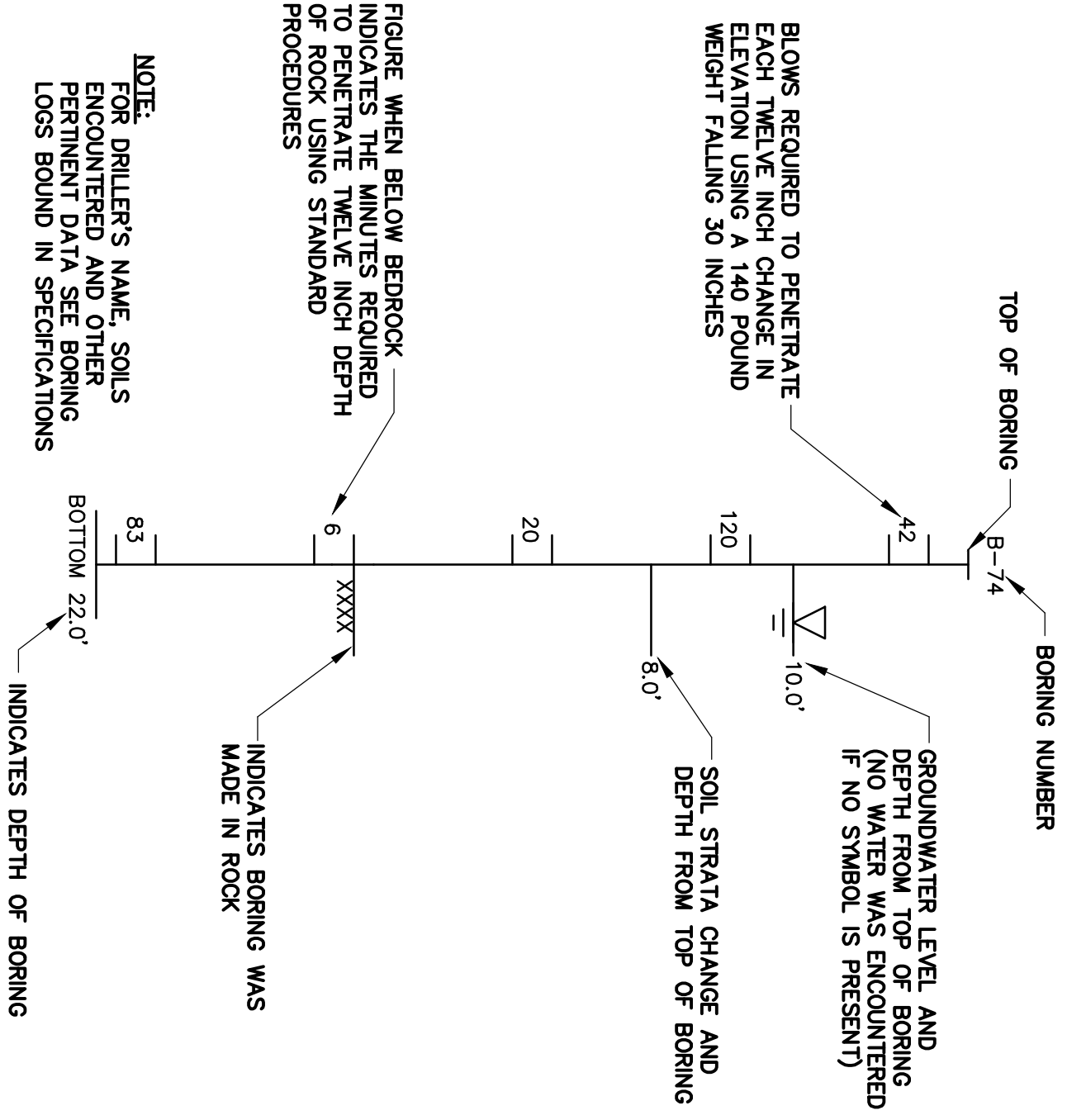
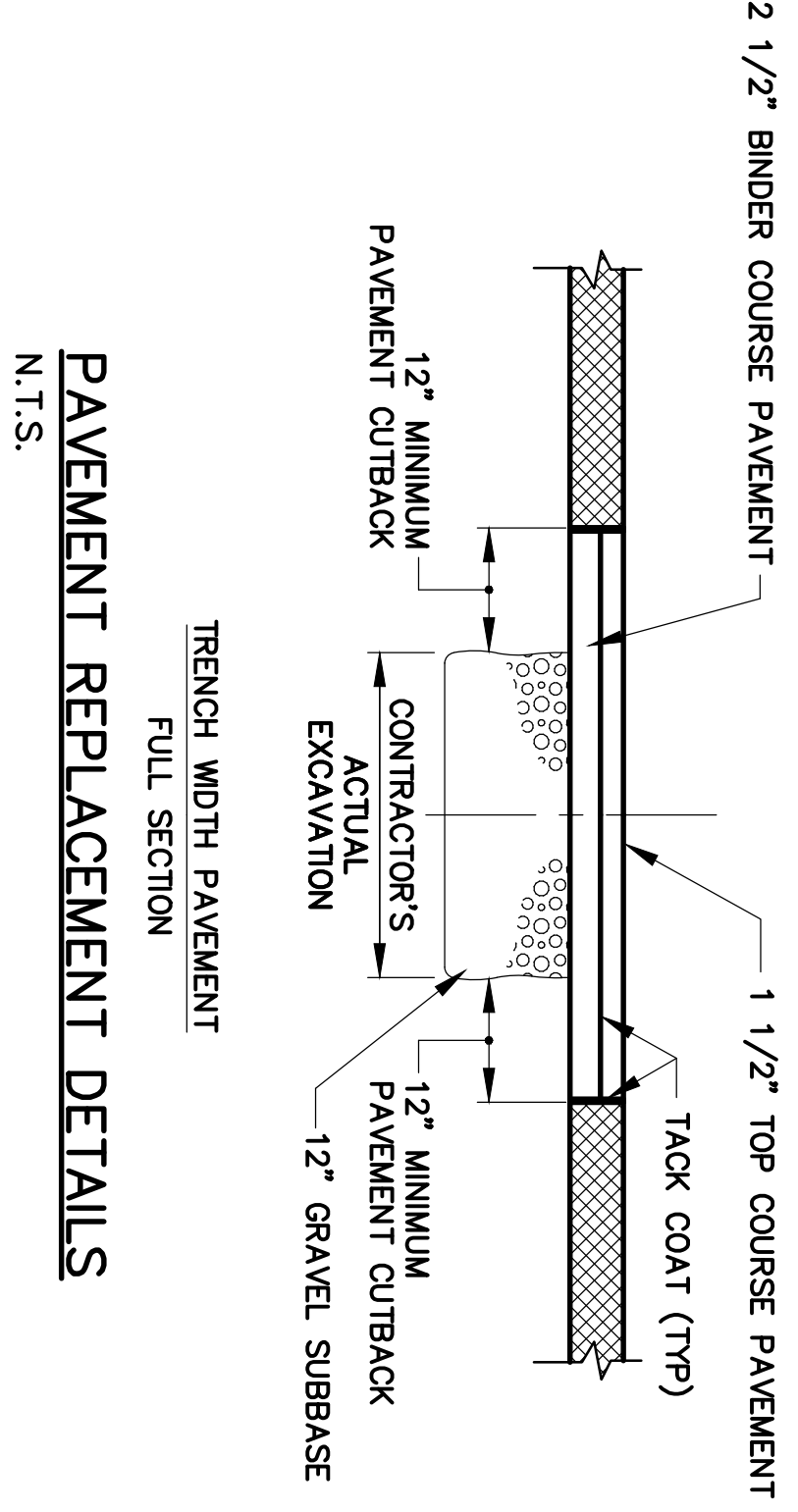
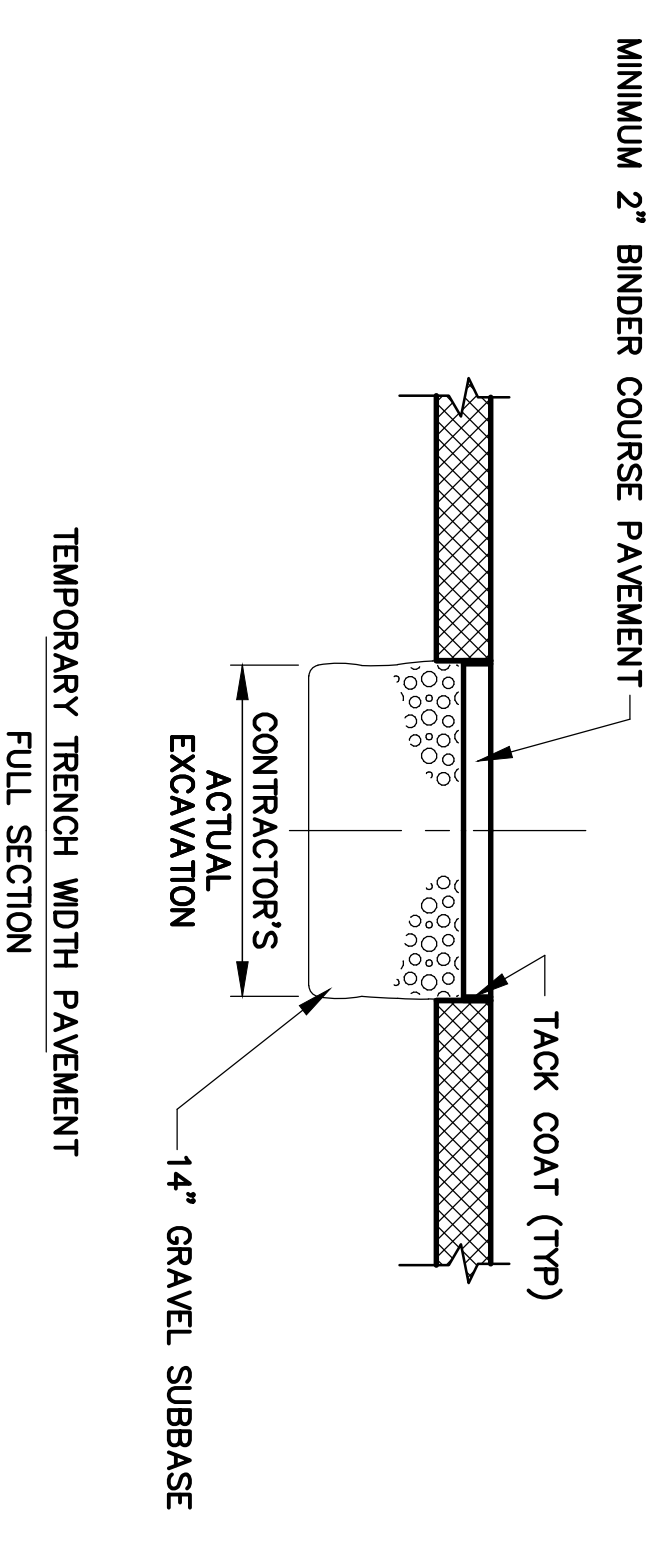
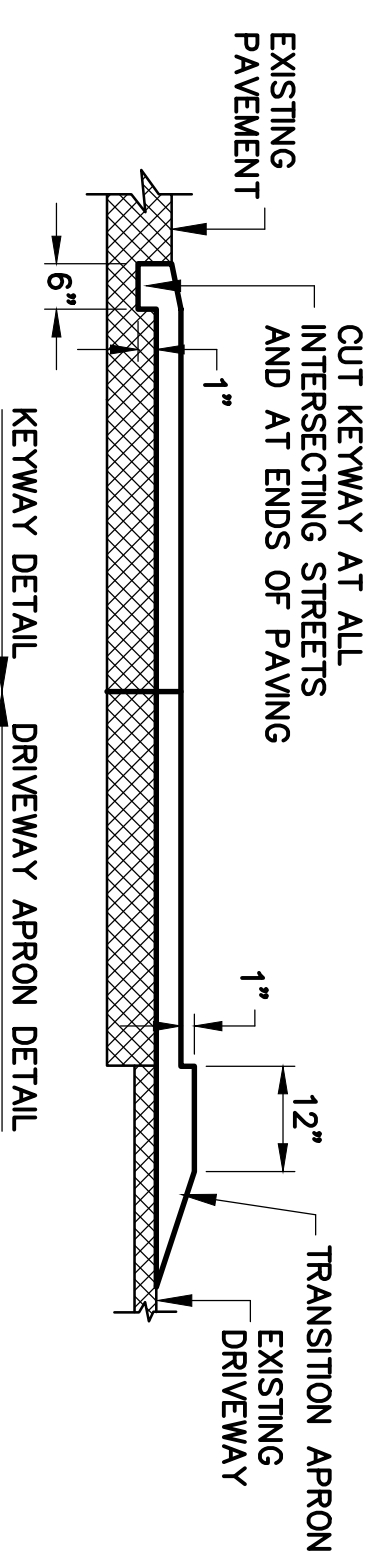


**SINGLE COMPOST FILTER TUBE DETAIL**  
PLAN VIEW  
NOT TO SCALE

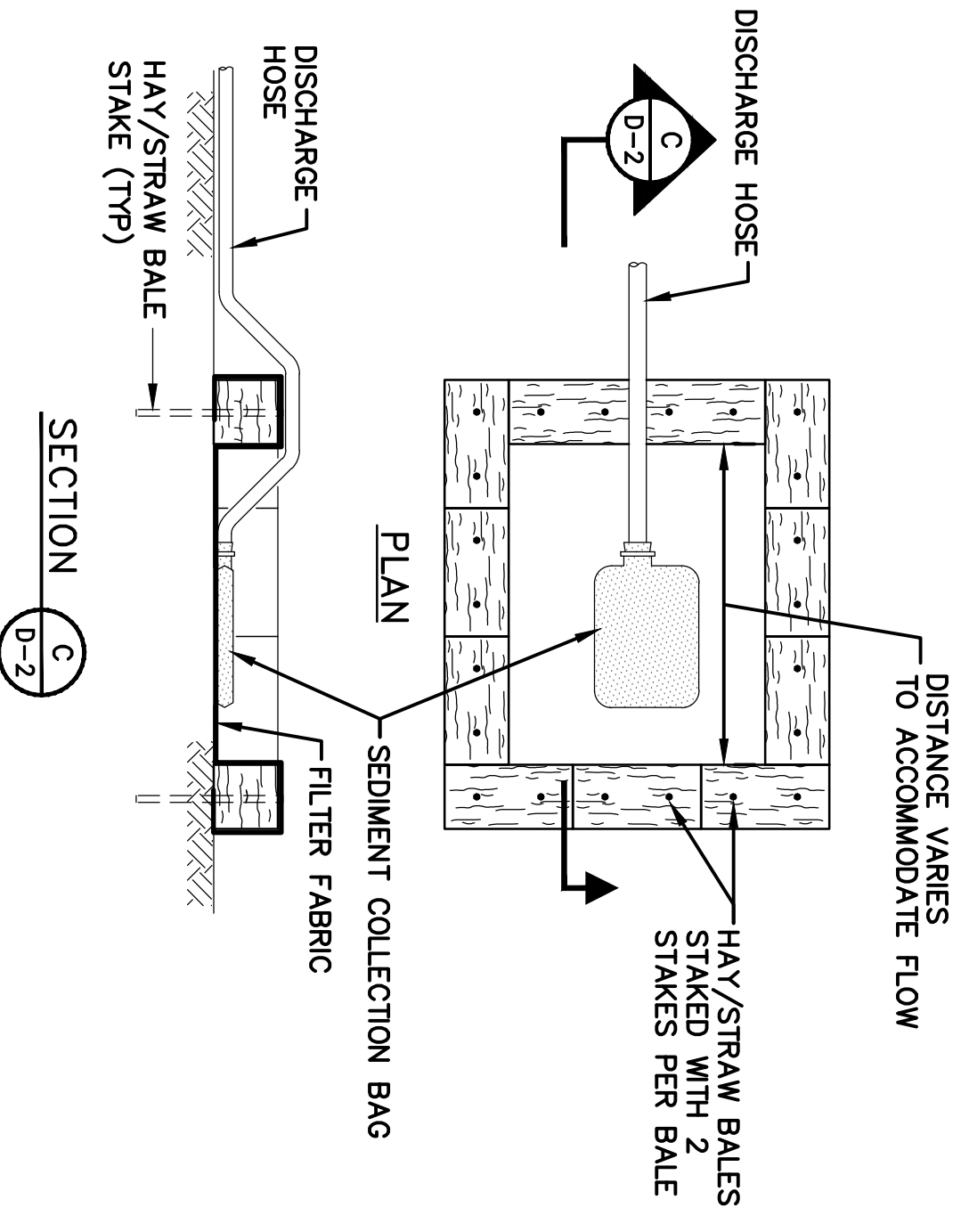


**PLAN VIEW - JOINT DETAIL**

- GENERAL NOTES:**
1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
  2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
  3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
  4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.



**CATCH BASIN PROTECTION DETAIL**  
N.T.S.



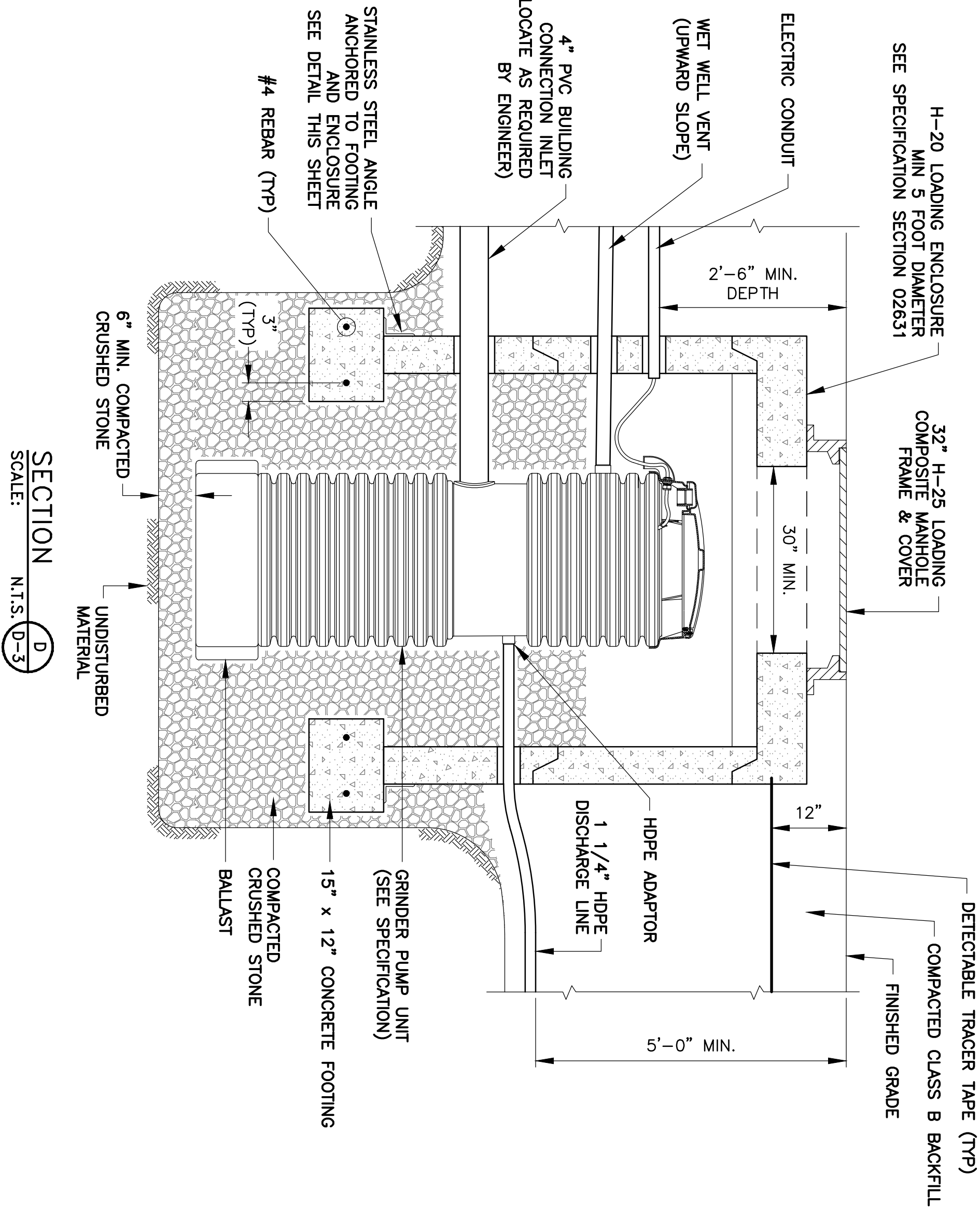
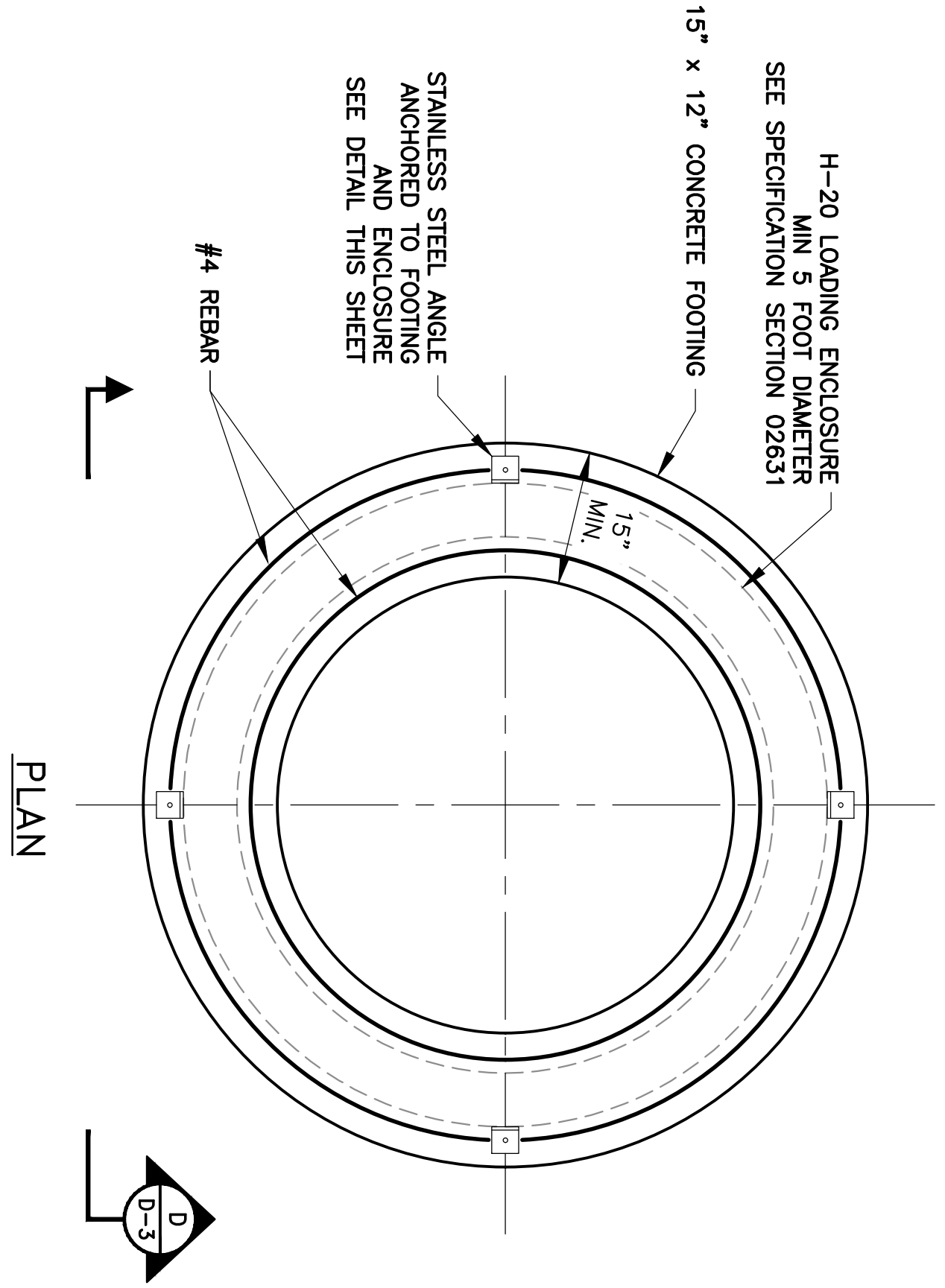
**DEWATERING DISCHARGE DISPOSAL DETAIL**  
N.T.S.

No.	Date	Dr. By	Ck. By	App. By	Description				
		A	P	P	R	O	V	E	D

REGISTERED PROFESSIONAL ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

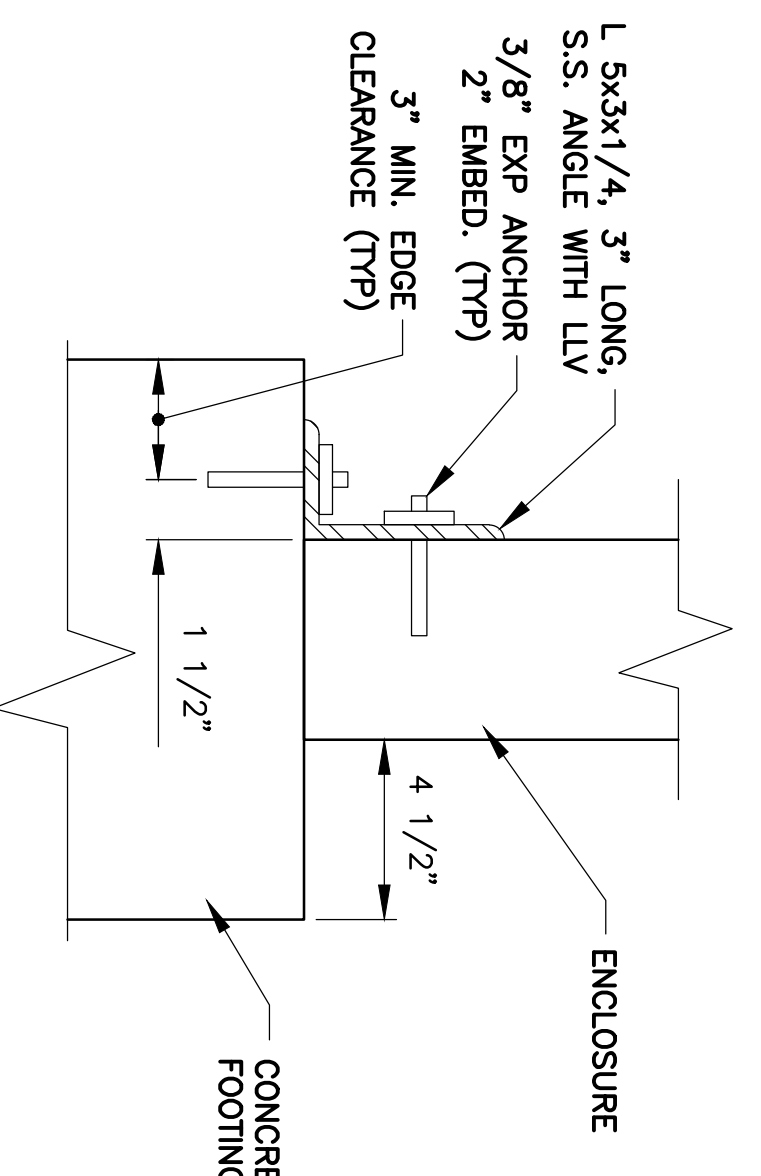
**Weston & Sampson**  
Weston & Sampson Engineers, Inc.  
55 Walkers Brook Drive, Reading, MA 01867  
978.532.1900 800.SAMPSON  
www.westonandsampson.com

CITY OF NEWTON, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS									
STANFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP									
<b>DETAILS II</b>									
FILE NO.	CADD NO.	SCALE:	CONTRACT:	JOB NO.	DR. BY	DSN. BY	CHK. BY	APP. BY	
		AS NOTED		2180692	RWS	MJD	PAT	DME	



- NOTES:**
- GRINDER PUMP UNIT LOCATION TO BE DETERMINED PRIOR TO CONSTRUCTION.
  - PLACE SAND 6" RADIUS AROUND 1 1/4" HDPE DISCHARGE LINE, ELECTRIC CONDUIT, AND WET WELL VENT.

**GRINDER PUMP INSTALLATION DETAIL**  
N.T.S.

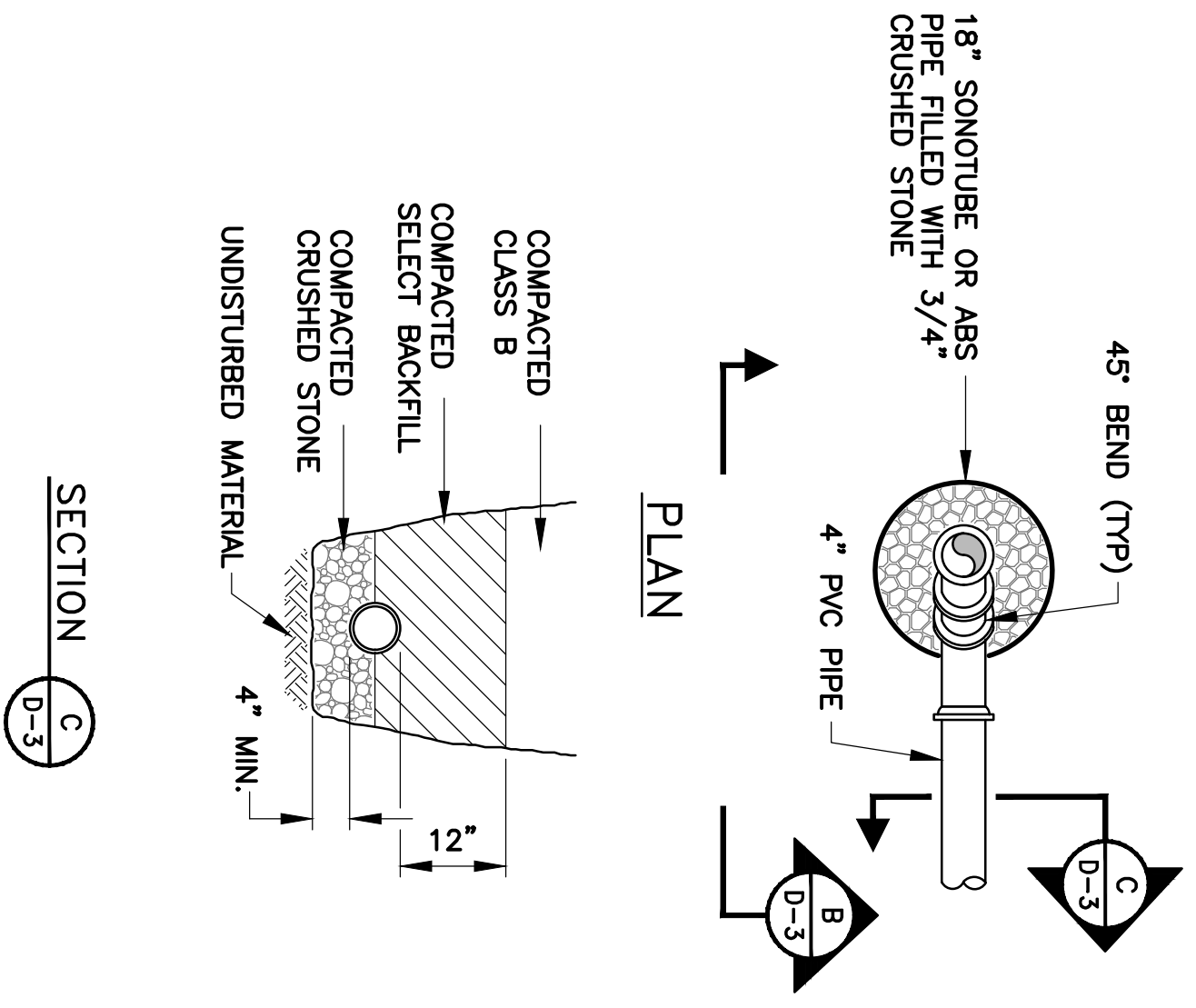


- NOTES:**
- STAINLESS STEEL ANGLE SHALL BE TYPE 304.
  - EXPANSION ANCHORS SHALL BE STAINLESS STEEL.

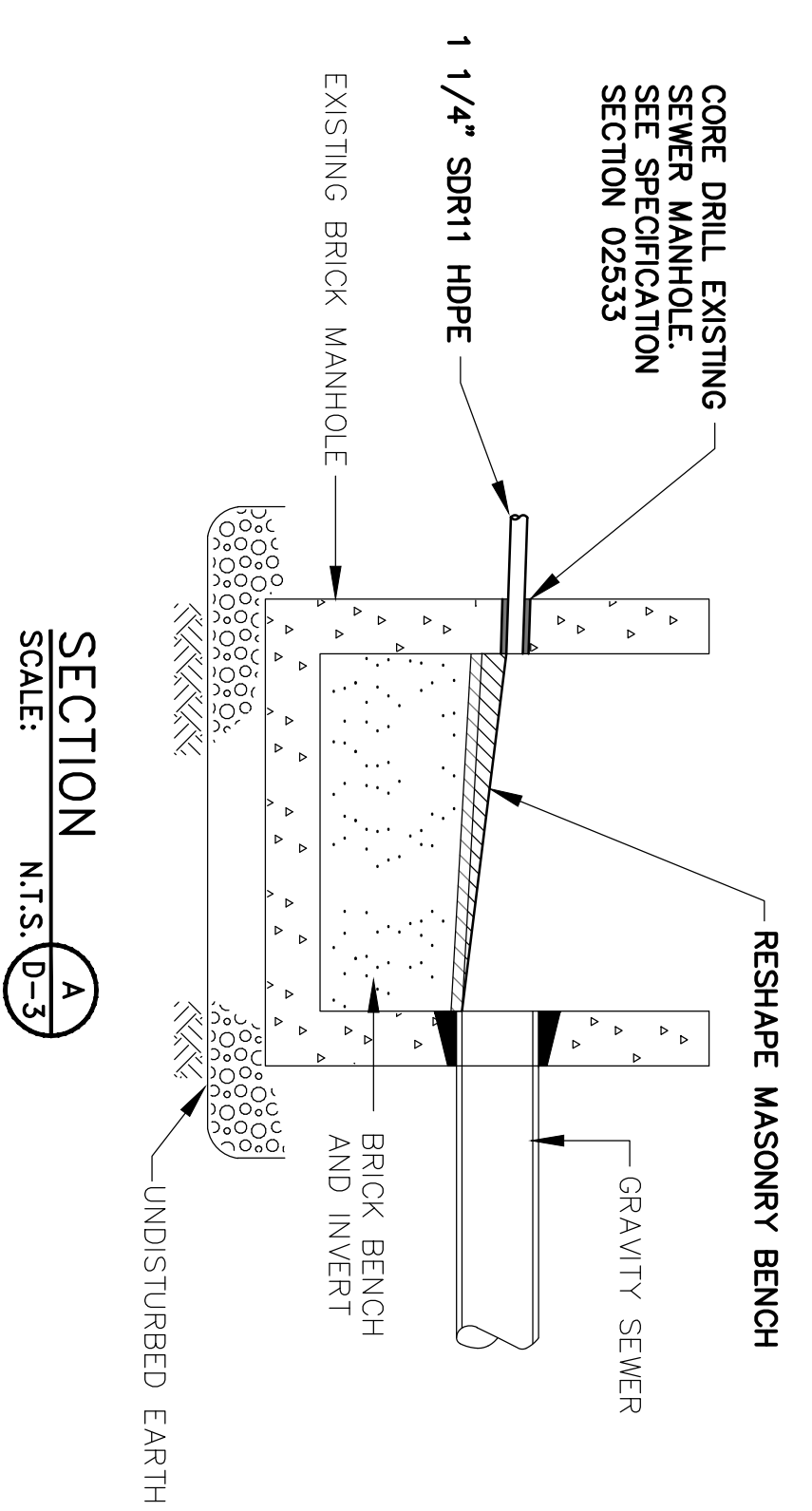
**ENCLOSURE CONNECTION DETAIL**  
N.T.S.

**FOOTING CONCRETE NOTES:**

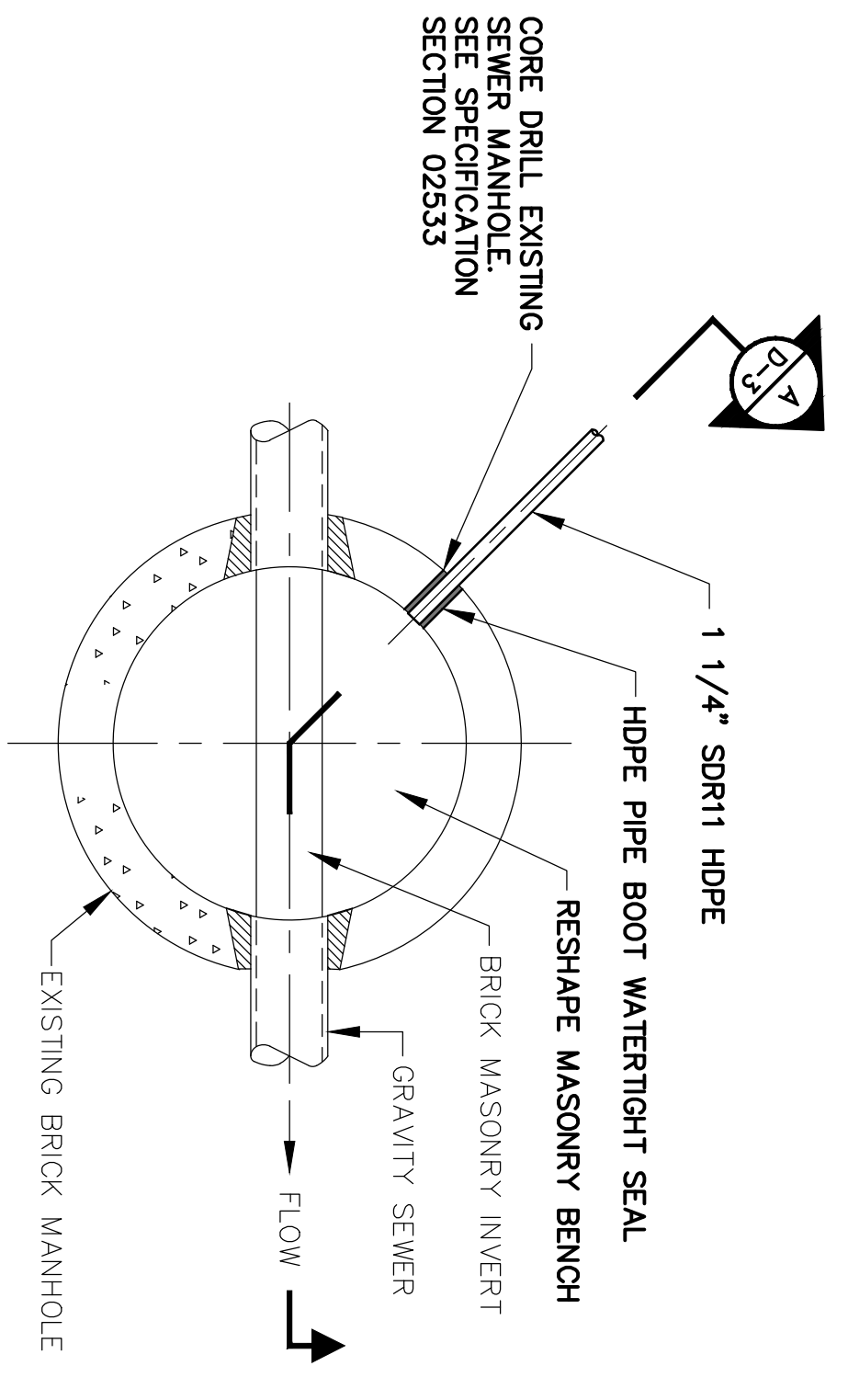
- ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND 301 REQUIREMENTS. THIS SHALL INCLUDE PROPORTIONING OF CONCRETE MIX, CONCRETE TESTING, PLACEMENT OF CONCRETE AND CURING OF CONCRETE.
- CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- PROVIDE TOTAL AIR ENTRAINMENT OF 6% (±) FOR ALL CONCRETE.
- MAXIMUM WATER/CEMENT RATIO FOR 4000 PSI CONCRETE IS 0.45.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
- DETAILING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
- ALL REINFORCING STEEL SHALL HAVE 3" CLEAR COVER.



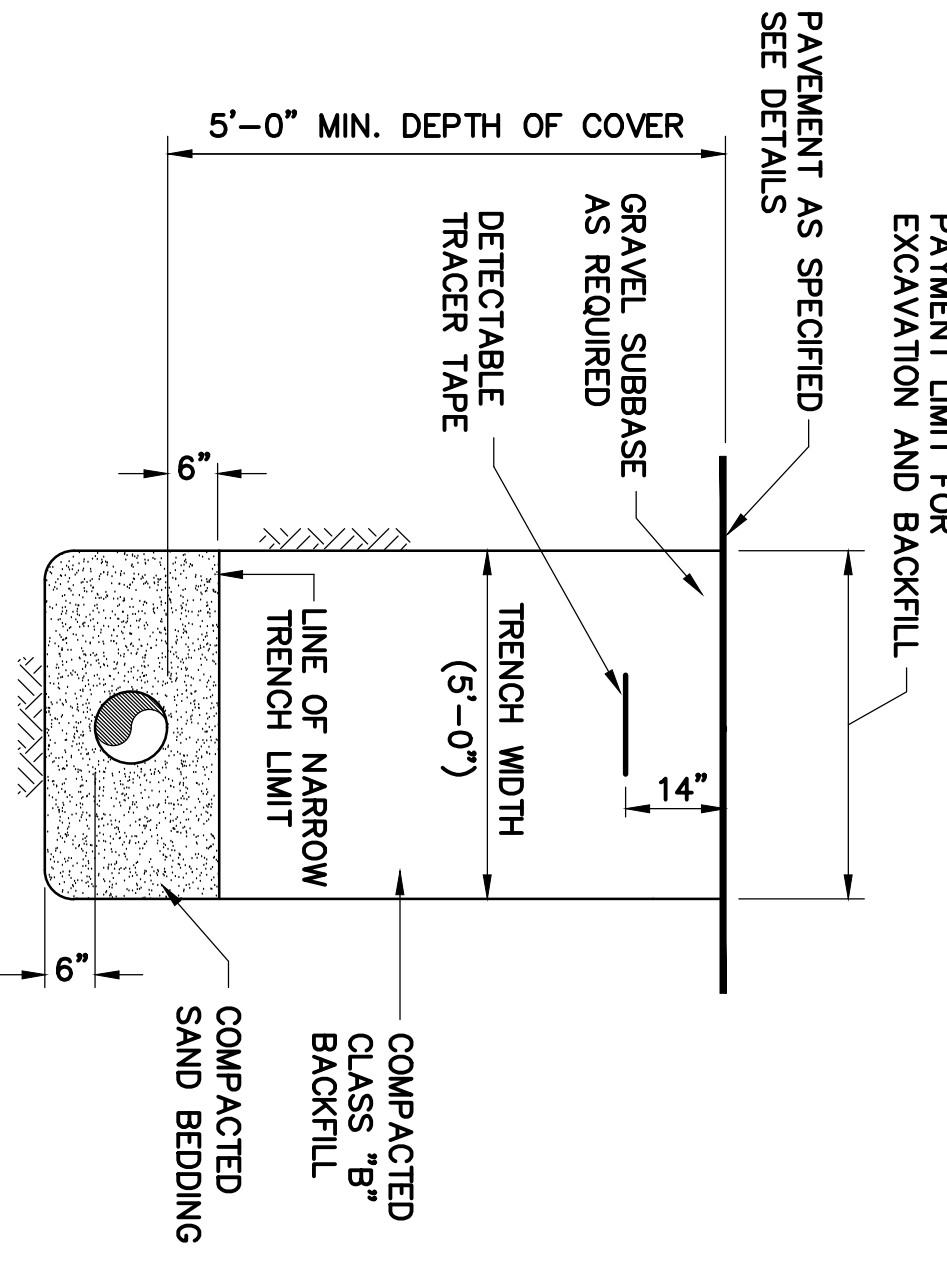
**GRINDER PUMP BUILDING CONNECTION DETAIL**  
N.T.S.



**SECTION A-A**  
N.T.S. (D-3)



**PRESSURE CONNECTION TO MANHOLE DETAIL**  
N.T.S.



**NOTE:**  
BELOW THE 'LINE OF NARROW TRENCH LIMIT' THE TRENCH SHOULD NOT BE EXCAVATED WIDER THAN FIVE (5) FEET. IF MATERIAL IS LOOSENED OR REMOVED BEYOND THE ABOVE MENTIONED LIMITS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE CRUSHED STONE FOR THE FULL WIDTH OF THE TRENCH AT NO ADDITIONAL COST TO THE OWNER.

**PRESSURE SEWER TRENCH DETAIL**  
N.T.S.

No.		Date	Dr. By	Ck. By	App. By	Description
			A	P	P	R O V E D

REGISTERED PROFESSIONAL ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

**Weston & Sampson**  
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55 Walkers Brook Drive, Reading, MA 01867  
978.532.1900 800.SAMPSON  
www.westonandsampson.com

CITY OF NEWTON, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS						
STANFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP						
DETAILS III						
FILE NO.	CADD NO.	SCALE:	CONTRACT:	JOB NO.	DR. BY	DSN. BY
	DETAILS	AS NOTED		2180692	RWS	MJD
					PAT	DME

**D-3**  
SHEET 8 OF 8



RUTHANNE FULLER  
MAYOR

**City of Newton, Massachusetts**  
**Office of the Mayor**

#120-19

Telephone  
(617) 796-1100

Telefax  
(617) 796-1113

TDD  
(617) 796-1089

E-mail  
[rfuller@newtonma.gov](mailto:rfuller@newtonma.gov)

March 11, 2019

Honorable City Council  
Newton City Hall  
1000 Commonwealth Avenue  
Newton Centre, MA 02459

Councilors:

I write to request that your Honorable Council docket for consideration a request to transfer the sum of \$500,000 from June 30, 2018 Certified Free Cash to the following accounts:

RECEIVED  
Newton City Clerk  
2019 MAR 12 AM 9:33  
DAVID A. CROON, JR.  
CLERK  
NEWTON, MA 02459

<u>From Account #</u>	<u>To Account #</u>	<u>Description</u>	<u>Amount</u>
0110498-5794	0140110-5273	Rental Vehicles/Contractors	\$ 250,000
0110498-5794	0140110-513001	Regular Overtime	\$ 250,000

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller  
Mayor



**Shawna Sullivan**

---

**From:** John Sherman  
**Sent:** Friday, March 15, 2019 12:11 PM  
**To:** Shawna Sullivan  
**Cc:** Jack Cowell  
**Subject:** DPW Snow Costs

Hi Shawna,

Please see below for a breakdown of DPW's snow costs to date:

Total Personnel Costs	\$901,875.81
Total Contracted Costs	\$2,356,039.01
Salt Costs	\$487,155.05
Equipment Costs	\$1,045,255.53
<b>Total Snow Costs</b>	<b>\$4,790,325.40</b>

Let me know if you have any questions or need any other information.

Thank you,

John Sherman  
Accounting Supervisor  
Department of Public Works  
City of Newton, MA  
617-796-1058

City of Newton



DEPARTMENT OF PUBLIC WORKS  
OFFICE OF THE COMMISSIONER  
1000 Commonwealth Avenue  
Newton Centre, MA 02459-1449

Ruthanne Fuller  
Mayor

March 13, 2019

**To:** Maureen Lemieux, Chief Financial Officer  
**From:** James McGonagle, Commissioner of Public Works  
Theodore J. Jerdee, Utilities Director  
**Subject:** Request to Docket funding for the Cleaning, Inspection and Assessment of the South Meadow Brook Culvert at 170 Needham Street

**Brief Description:** I request funding in the amount of \$250,000.00 for the Cleaning, Inspection and Assessment for 230 linear feet of 5'x16' concrete box culvert located adjacent to 170 Needham Street that conveys stormwater from the South Meadow Brook drainage basin. The scope of work includes the removal of approximately 200 cubic yards of sedimentation, visual inspection of the structural integrity of the box culvert and assessment to determine the necessary methods of rehabilitation in conjunction with the Needham Street Road Reconstruction Project.

Please docket this request with the Honorable City Council for their consideration.

Sincerely,

James McGonagle  
Commissioner Public Works

STORMWATER MGMT FUND SURPLUS  
Acct # 26-3498

Approved 3/14/19  
Ruthanne Fuller, Mayor

**NEWTON, MA  
NEEDHAM STREET CULVERT CLEANING AND EVALUATION  
ESTIMATED COSTS**

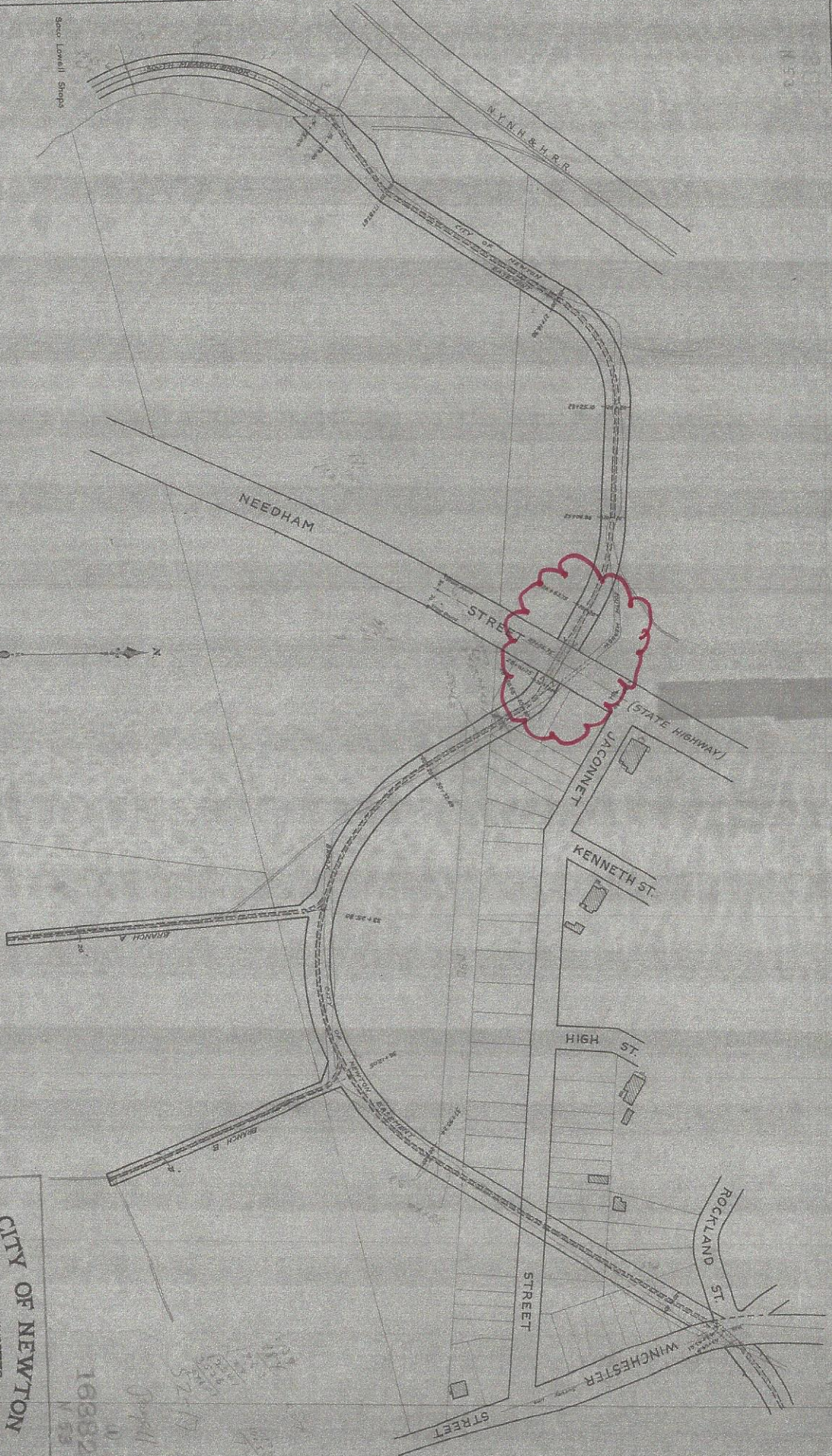
Item	Estimated Cost	Comments
Review of Existing Information and Conservation Commission Submittal Assistance	\$5,000	
Culvert Cleaning	\$245,000	Includes \$225,000 in subconsultant costs and full time onsite Engineer for three (3) weeks
Visual Structural Assessment and Reporting	\$21,000	
Police Details	\$15,000	Assumes two (2) officers required for three (3) weeks; eight (8) hours per day

**TOTAL**

**\$286,000**

16382  
M 93

See Lowell Shops



16382  
M 93

**CITY OF NEWTON**  
MASSACHUSETTS

**SOUTH MEADOW BROOK**  
SACD LOWELL SHOPS TO WINCHESTER STREET  
(SHEET 1 OF SIX SHEETS)

**ALIGNMENT PLAN**

Scale 30' to 1" (horizontal)  
July 24, 1919  
CITY ENGINEER

City of Newton



**DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION  
OFFICE OF THE CITY ENGINEER  
1000 Commonwealth Avenue  
Newton Centre, MA 02459-1449**

Ruthanne Fuller  
Mayor

March 14, 2019

RECEIVED  
Newton City Office  
2019 MAR 15 PM 2:14  
David A. Olson, City Engineer  
Newton, MA 02459  
*Approved Ruthanne Fuller*  
3/16/19

To: Jonathan Yeo, Chief Operating Officer  
Maureen Lemieux, Chief Financial Officer

From: Louis M. Taverna, P.E., City Engineer

Subject: Request for Docket Item for Changes in Traffic Flow at Intersections,  
Complete Streets Initiative, 2019

Department of Public Works proposes changes in traffic flow at certain intersections, as part of the accelerated roads program for 2019 and 2020. The following intersections are proposed to be modified to improve pedestrian and bicycle safety, in accordance with the city's complete streets initiative. Intersection improvements will provide the following safety improvements:

**Crafts Street at Walnut Street**

- Allows the installation of accessible curb cuts
- Allows safe pedestrian crossing of Walnut St at Crafts St
- Slows vehicular traffic making right turn southbound from Crafts St to Walnut St

**Walnut Street at Minot Place**

- Allows safe pedestrian (mostly young students) crossing of Walnut Street from the Park to Minot Place
- Discourages drivers from parking at the Walnut St and Minot Place intersection
- Enhances pedestrian visibility for crossing Walnut St

**Walnut Street at Lowell Avenue**

- Allows the installation of accessible curb cuts
- Allows safe pedestrian crossing of Lowell Ave at Walnut St
- Slows vehicular traffic making right turn southbound from Walnut St to Lowell Ave

**Waltham Street at Derby Street and Fairway Drive**

- Allows the installation of accessible curb cuts
- Allows safe pedestrian crossing of Waltham St at Derby St and Fairway Drive
- Slows vehicular traffic making right turn southbound from Waltham Street to Derby St, and northbound from Waltham St to Fairway Drive
- Includes the installation of the rectangular rapid flash beacon (RRFB)

Elliot Street at Linden Street

- Slows vehicle traffic heading both eastbound and westbound on Elliot St
- Allows safe pedestrian crossing of Elliot St at Linden St

Concept sketches of the proposed intersection improvements are attached. Final design plans are being developed. The construction of these intersection improvements is scheduled for the 2019 and 2020 construction seasons.

Sincerely,



Louis M. Taverna, P.E.  
City Engineer

cc: James McGonagle, Commissioner  
Amy Hamel, DPW Chief of Staff  
Jason Sobel, P.E., Director of Transportation Operations  
Jack Cowell, DPW Business Manager

CALIFORNIA ST.

CRAFTS ST.

CRAFTS ST.

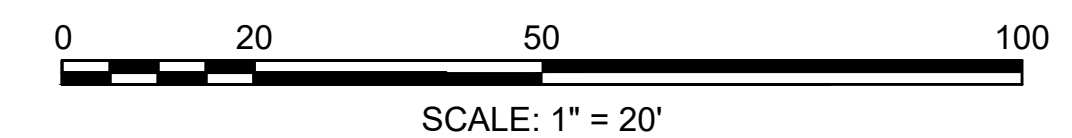
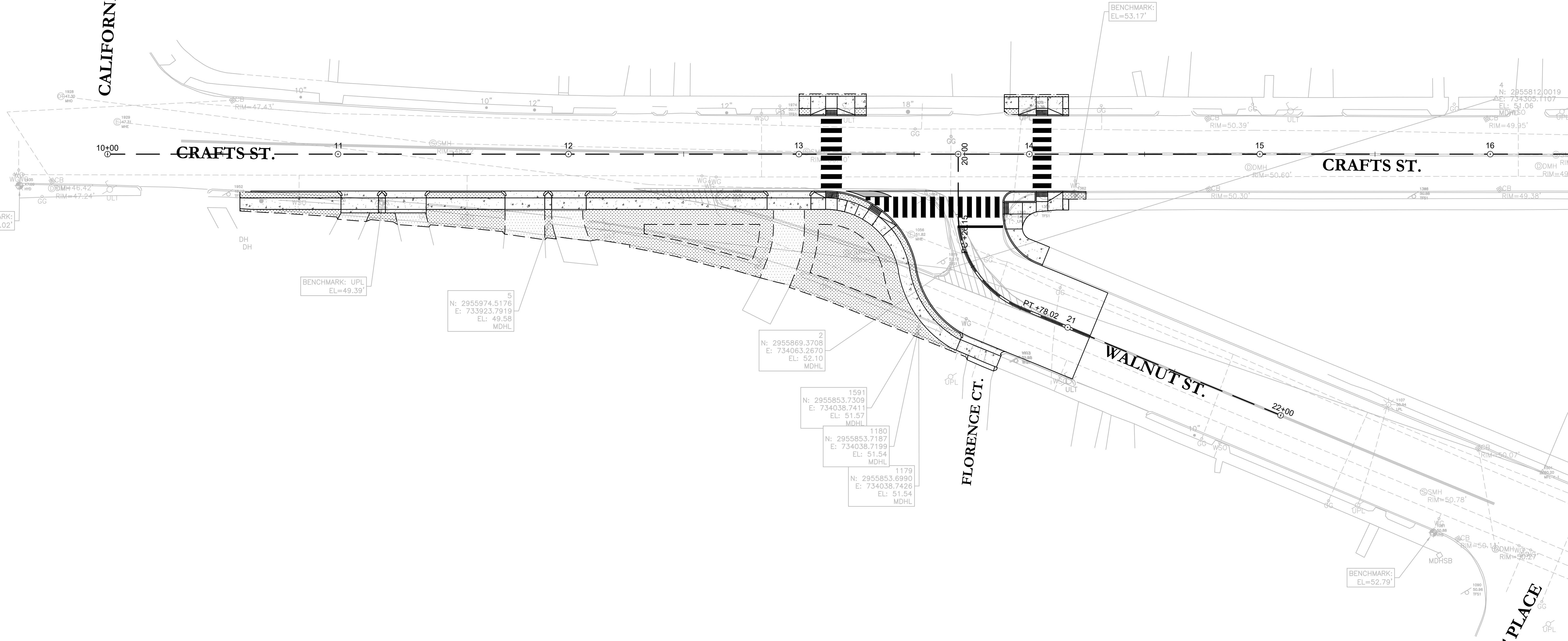
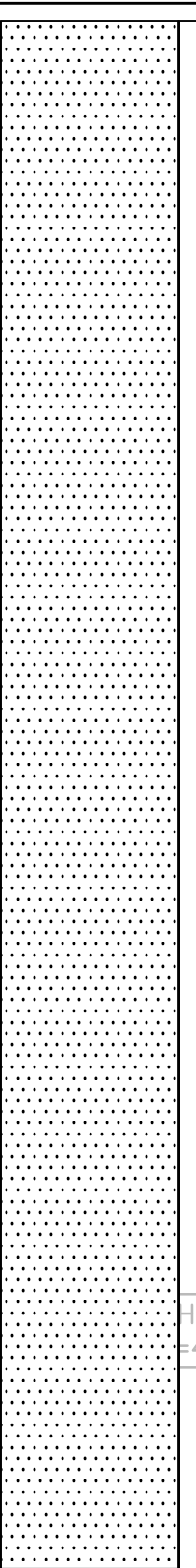
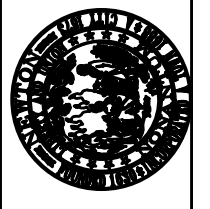
WALNUT ST.

FLORENCE CT.

MINOT PLACE

DESIGNED BY: A.VARGAS  
 DESIGN DRAFTED BY: M.PANZA  
 CHECKED BY: J.DAGHIAN  
 APPROVED BY: L.TAVERNA

CITY OF NEWTON  
 MASSACHUSETTS



CITY OF NEWTON  
 MASSACHUSETTS  
 CONCEPT PLAN  
 FOR THE  
 INTERSECTION IMPROVEMENTS  
 AT  
 CRAFTS ST AND WALNUT ST

DESIGNED BY: A. VARGAS  
CHECKED BY: J. DACHIAN  
APPROVED BY: L. TAVERNA

SURVEYED BY: P. HIGGINS  
BASE MAP DRAFTED BY: P. HIGGINS

CITY OF NEWTON  
MASSACHUSETTS



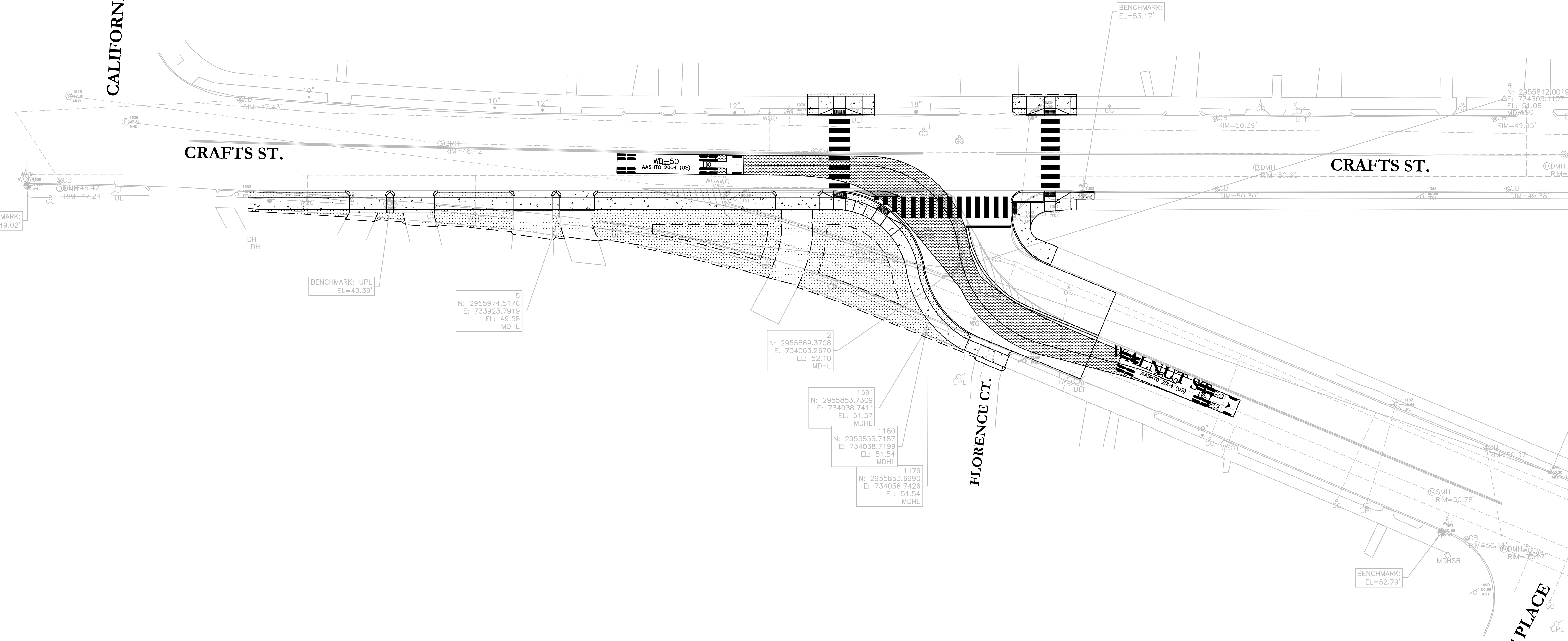
CALIFORNIA ST.

CRAFTS ST.

CRAFTS ST.

FLORENCE CT.

MINOT PLACE



BENCHMARK: UPL  
EL=49.39'

5  
N: 2955974.5176  
E: 733923.7919  
EL: 49.58  
MDHL

2  
N: 2955869.3708  
E: 734063.2670  
EL: 52.10  
MDHL

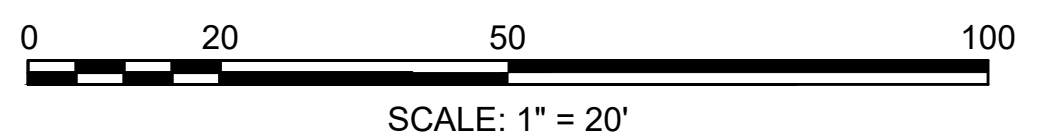
1591  
N: 2955853.7309  
E: 734038.7411  
EL: 51.57  
MDHL

1180  
N: 2955853.7187  
E: 734038.7199  
EL: 51.54  
MDHL

1179  
N: 2955853.6990  
E: 734038.7426  
EL: 51.54  
MDHL

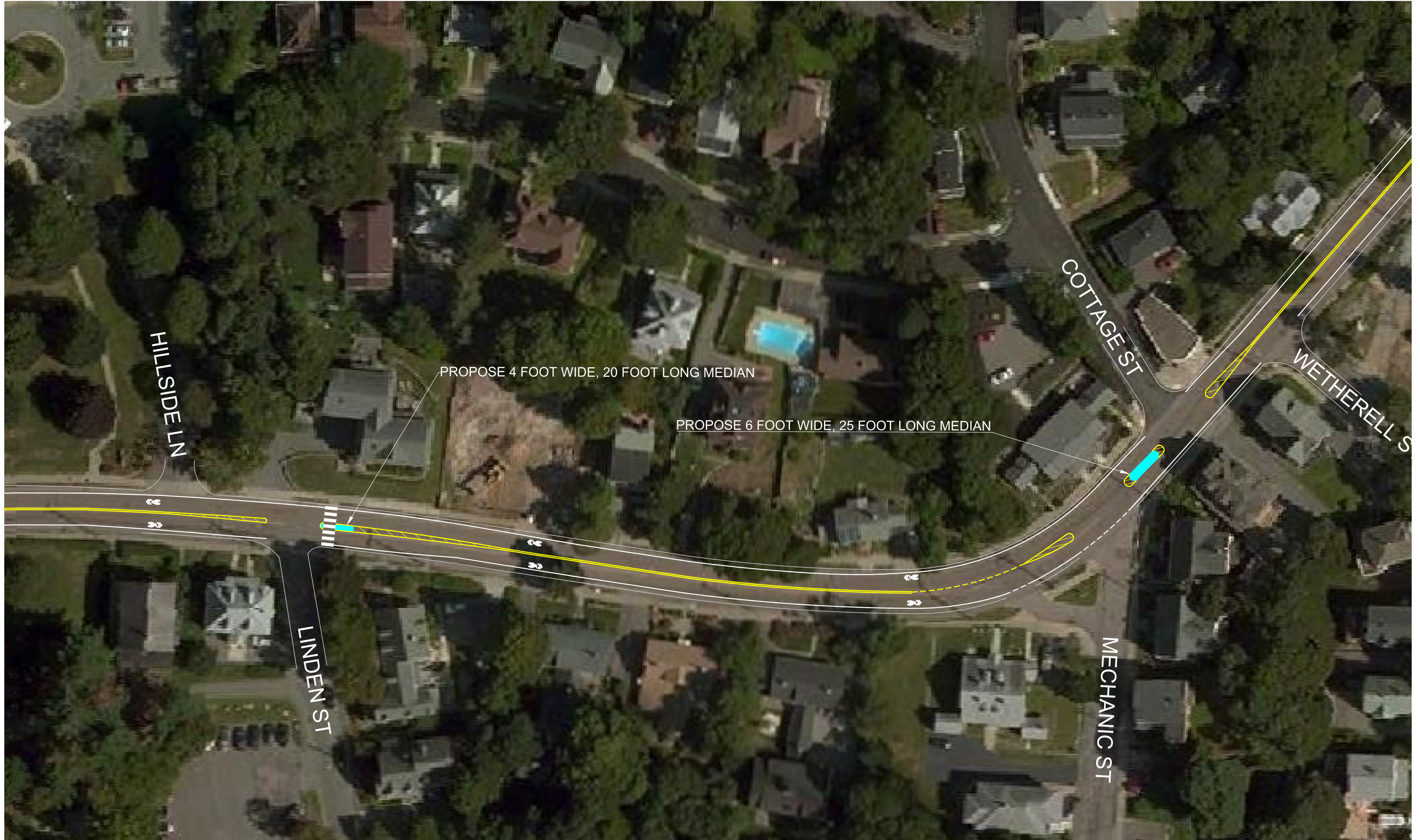
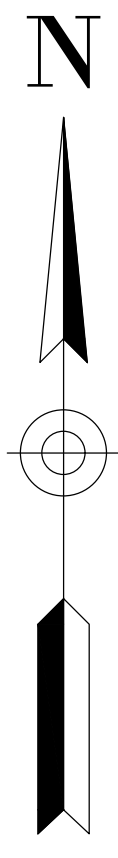
BENCHMARK:  
EL=53.17'

BENCHMARK:  
EL=52.79'



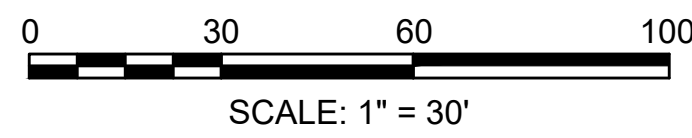
CITY OF NEWTON  
MASSACHUSETTS  
CONCEPT PLAN  
FOR THE  
INTERSECTION IMPROVEMENTS  
AT  
CRAFTS ST AND WALNUT ST





CITY OF NEWTON  
MASSACHUSETTS

DESIGNED BY: J. PRIZANT  
CHECKED BY: J. SOBEL  
SURVEYED BY: J. PRIZANT  
BASE MAP DRAFTED BY: J. SOBEL  
APPROVED BY:



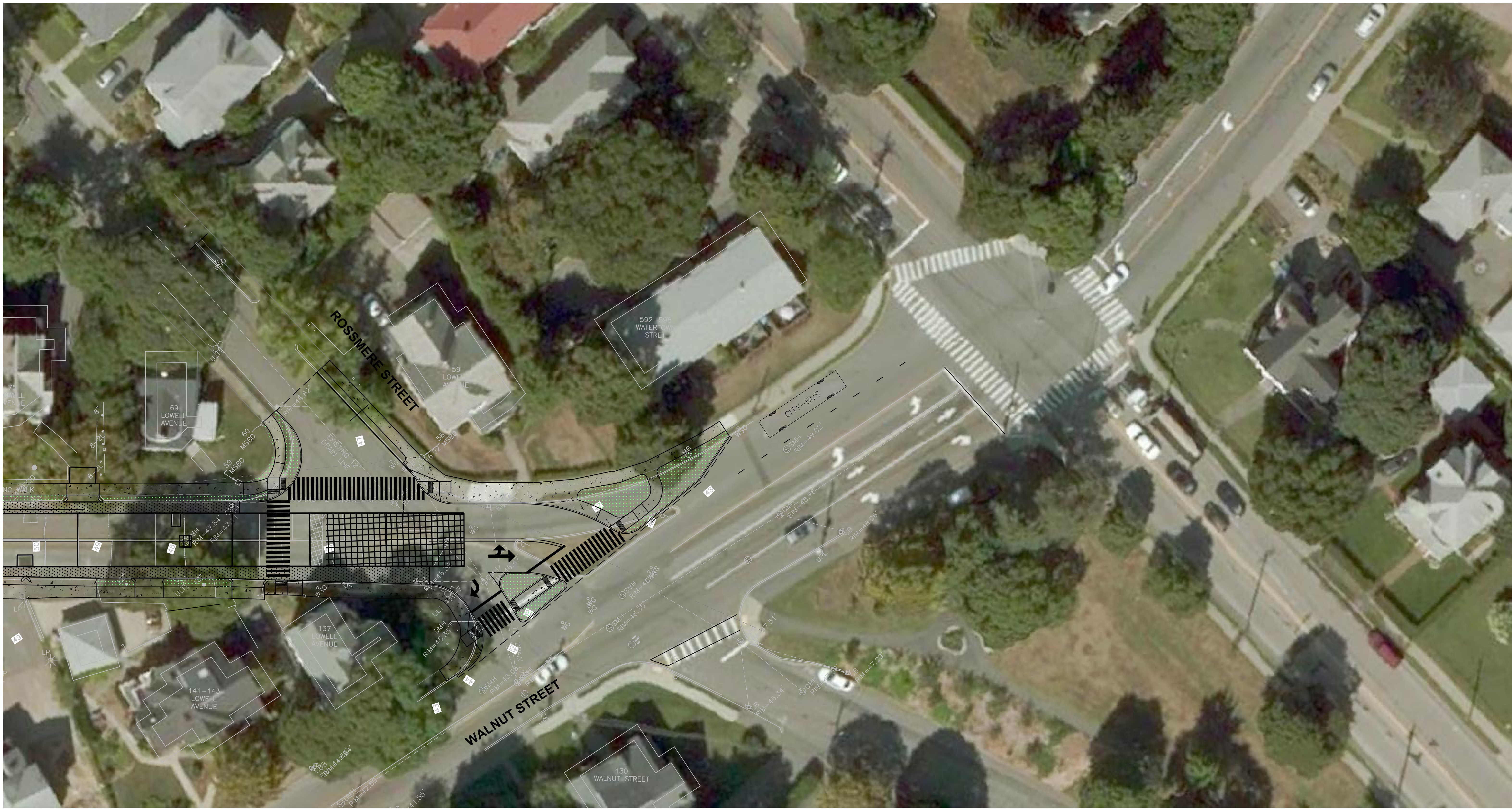
CITY OF NEWTON  
MASSACHUSETTS  
CONCEPT PLAN  
FOR THE  
TRAFFIC CALMING PROPOSAL  
ON  
ELLIOT STREET  
PAGE 01 OF 01 JASON SOBEL, P.E., P.T.O.E. DATE: 1/30/19



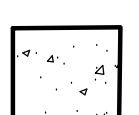

CITY OF NEWTON  
MASSACHUSETTS

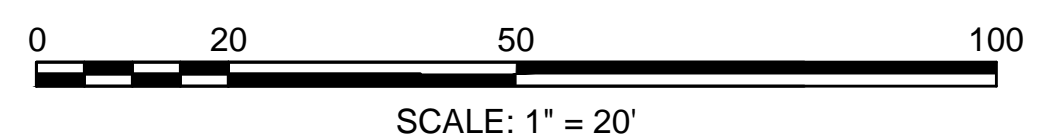
DESIGNED BY: A. VARGAS  
 CHECKED BY: J. DAGHIAN  
 APPROVED BY: L. TAVERNA

SURVEYED BY: P. HIGGINS  
 BASE MAP DRAFTED BY: P. HIGGINS



**LEGEND**

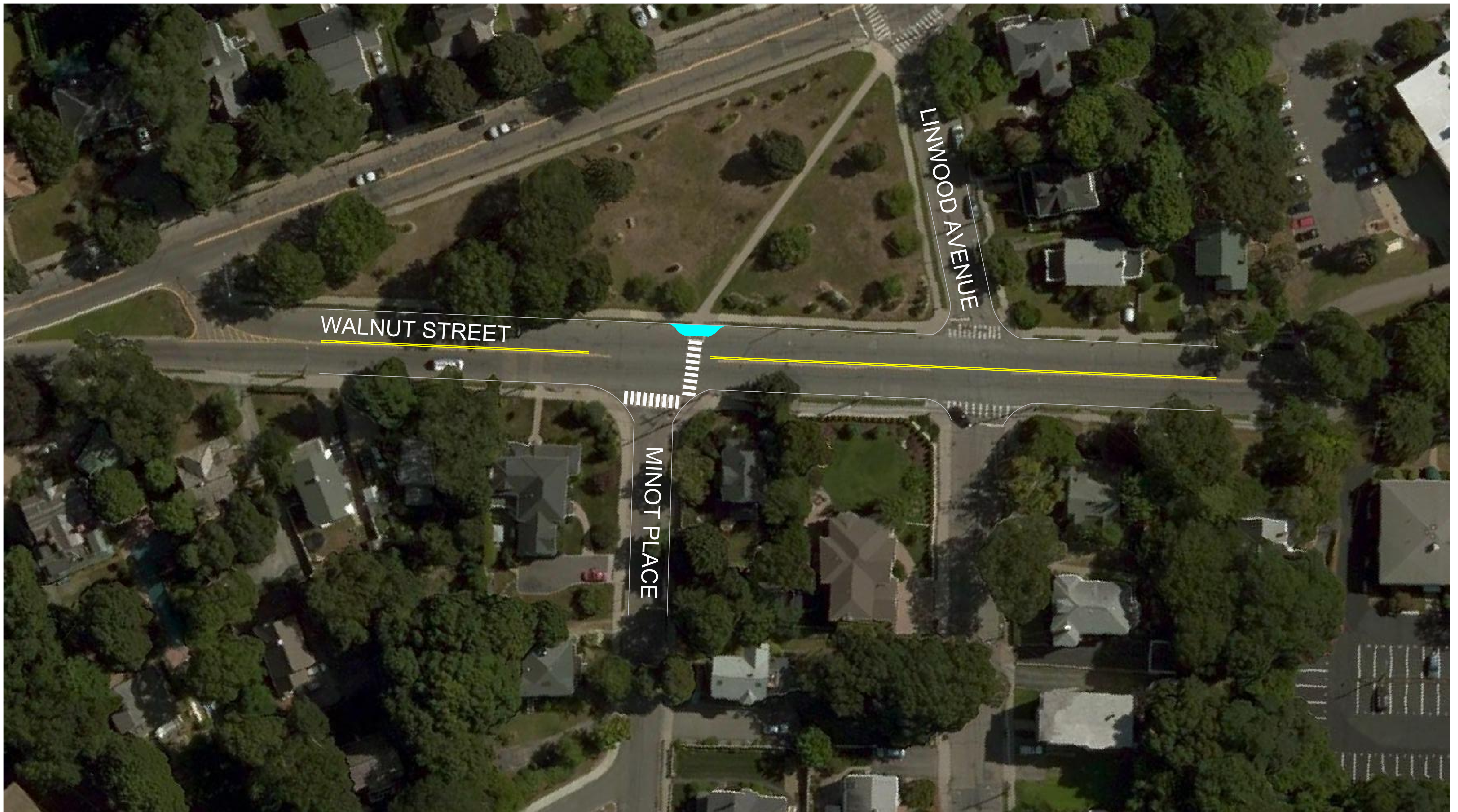
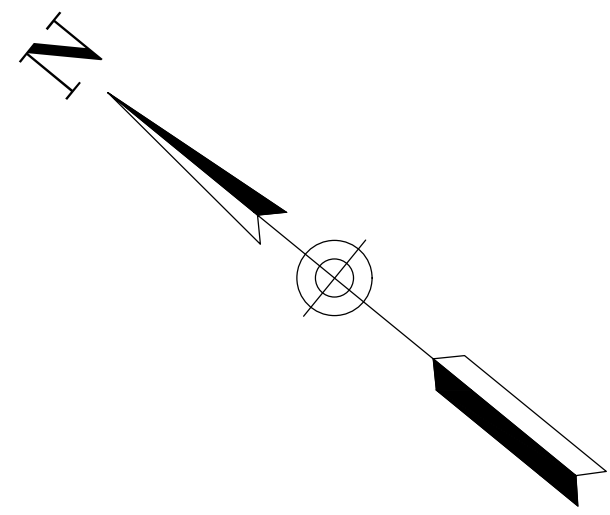
-  PROPOSED CEM. CONC. DRIVEWAY/SIDEWALK
-  PROPOSED GRASS OR LOW GROWING / MAINTENANCE PLANTINGS



CITY OF NEWTON  
MASSACHUSETTS

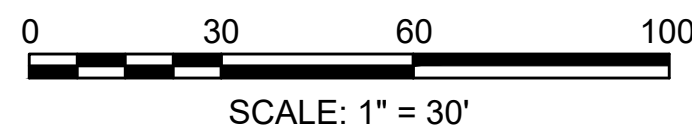
**CONCEPT PLAN - NO SLIP LANE - ALT 1**  
FOR THE  
CONCRETE ROADWAY REPAIR AND ASPHALT OVERLAY  
OF  
LOWELL AVENUE  
(WASHINGTON STREET TO WALNUT STREET)

PAGE 01 OF 01 Louis M. Taverna, P.E. DATE: 1/19/18

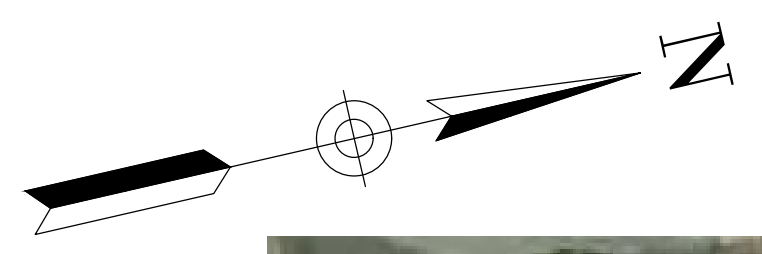


CITY OF NEWTON  
MASSACHUSETTS

DESIGNED BY: J. PRIZANT  
CHECKED BY: J. SOBEL  
APPROVED BY: \_\_\_\_\_  
SURVEYED BY: \_\_\_\_\_  
BASE MAP DRAFTED BY: \_\_\_\_\_

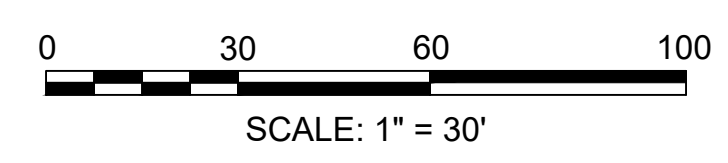
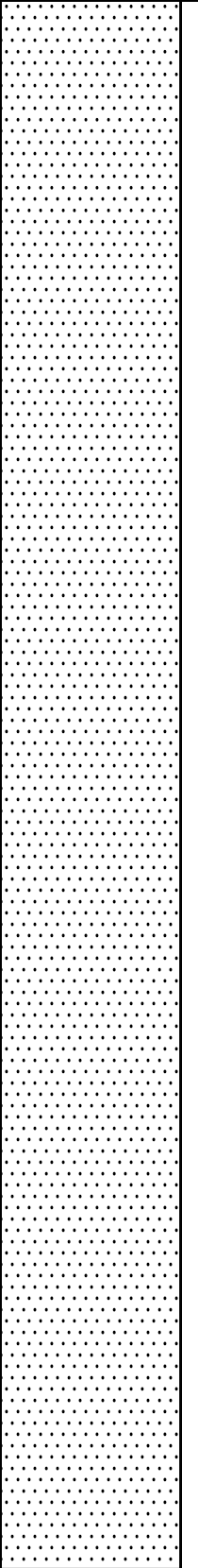
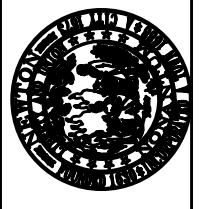


CITY OF NEWTON  
MASSACHUSETTS  
CONCEPT PLAN  
FOR THE  
TRAFFIC CALMING PROPOSAL  
ON  
WALNUT STREET AT MINOT PLACE  
PAGE 01 OF 01 JASON SOBEL, P.E., P.T.O.E. DATE: 3/12/19



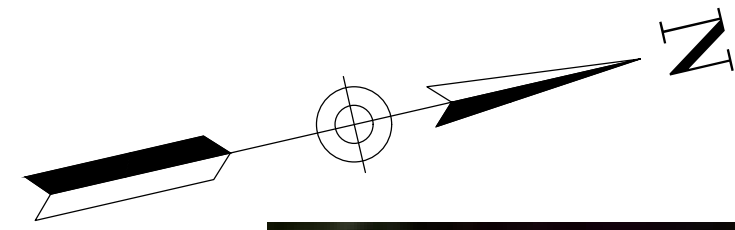
DESIGNED BY: J. PRIZANT  
 CHECKED BY: J. SOBEL  
 APPROVED BY:

CITY OF NEWTON  
 MASSACHUSETTS



CITY OF NEWTON  
 MASSACHUSETTS  
 CONCEPT PLAN  
 FOR THE  
 TRAFFIC CALMING PROPOSAL  
 ON  
 WALTHAM STREET

PAGE 01 OF 01 JASON SOBEL, P.E., P.T.O.E. DATE: 3/12/19

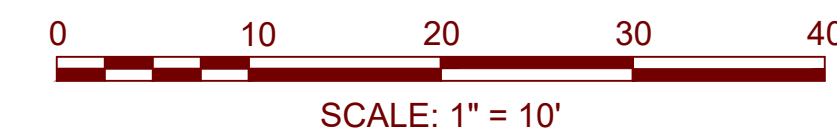


RANDLETT PARK

WALTHAM STREET

FAIRWAY DRIVE

DERBY STREET

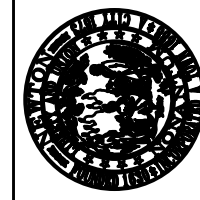


CITY OF NEWTON  
MASSACHUSETTS

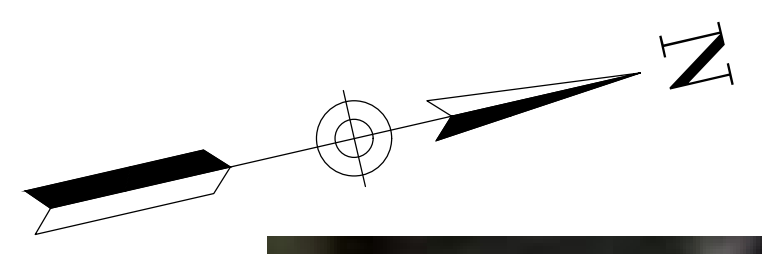
FOR THE  
TRAFFIC CALMING PROPOSAL  
ON  
WALTHAM STREET

DESIGNED BY: J. PRIZANT  
CHECKED BY: J. SOBEL  
APPROVED BY:

CITY OF NEWTON  
MASSACHUSETTS



SURVEYED BY:  
BASE MAP DRAFTED BY:



PROPOSED RRFB

WALTHAM STREET

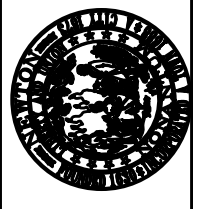
DERBY STREET

FAIRWAY DRIVE

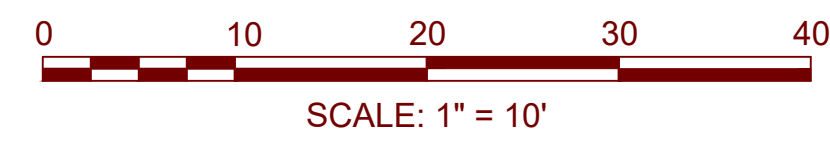
WARWICK ROAD

DESIGNED BY: J. PRIZANT  
CHECKED BY: J. SOBEL  
APPROVED BY:

CITY OF NEWTON  
MASSACHUSETTS



SURVEYED BY:  
BASE MAP DRAFTED BY:



CITY OF NEWTON  
MASSACHUSETTS  
FOR THE  
TRAFFIC CALMING PROPOSAL  
ON  
WALTHAM STREET  
PAGE OF 01 JASON SOBEL, P.E., P.T.O.E. DATE: 3/12/19