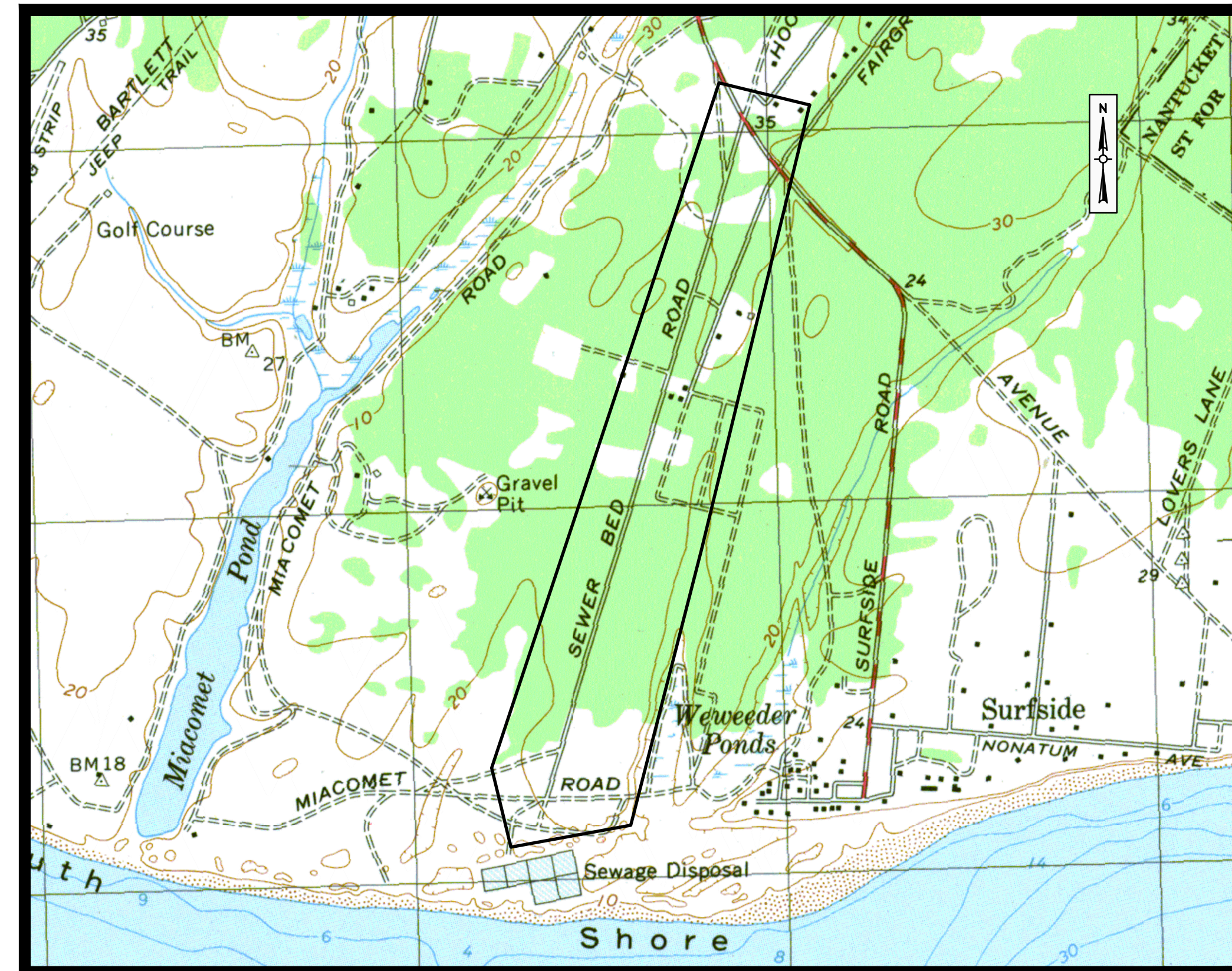


TOWN OF NANTUCKET, MASSACHUSETTS

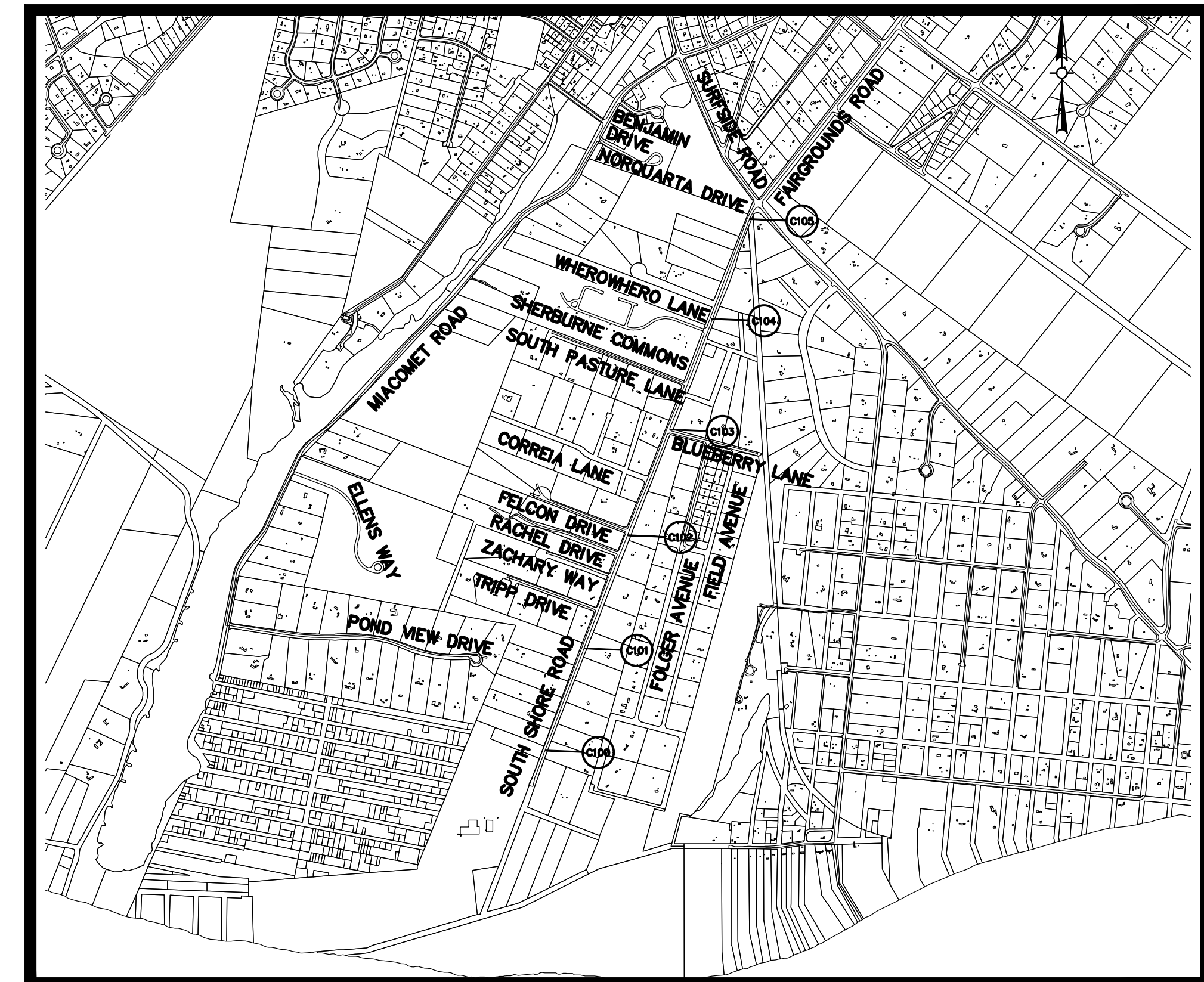


S. SHORE ROAD SEWER EXTENSION PROJECT, CONTRACT 1765 SEWER DEPARTMENT: 81 S. SHORE ROAD NANTUCKET, MASSACHUSETTS, 02554

DRAWING INDEX	
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G000	COVER
G001	ABBREVIATIONS, NOTES AND LEGEND
C100	S. SHORE ROAD STA 0+00 TO STA 10+00
C101	S. SHORE ROAD STA 10+00 TO STA 20+00
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D500	DETAILS I
D501	DETAILS II
D502	DETAILS III
D503	CONSTRUCTION ZONE SAFETY PLAN



LOCUS MAP
SCALE : 1"=1000'



VICINITY MAP
SCALE : 1"=1000'

SELECT BOARD

JASON BRIDGES, CHAIR

KRISTIE L. FERRANTELLA, VICE CHAIR

MATT FEE

DAWN E. HILL HOLDGATE

MELISSA MURPHY

TOWN MANAGER

C. ELIZABETH GIBSON

SEWER DEPARTMENT

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NOVEMBER 2021



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LEGEND		
DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	—S—	—8" PVC—
FORCE MAIN	—FM—	—6" FM DI—
LOW PRESSURE SEWER	—PS—	—6" PS PVC—
WATER MAIN	—W—	—6" W DI—
TEMPORARY WATER	—TW—	—4" W—
STORM DRAIN	—D—	—18" RCP—
GAS	—G—	—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	—	—
STONE WALL	—	—
RETAINING WALL	RET WALL	RET WALL
FENCE	—X—	—X—
INDIVIDUAL DECIDUOUS TREE	⊕	⊕
INDIVIDUAL EVERGREEN TREE	⊕	⊕
TREE LINE	—	—
SURVEY MARKER	⊕	⊕
PROPERTY LINE	—	—
EASEMENT LINE	—	—
LIMIT OF WORK	—	—
APPROX. LIMIT OF REFUSE	—	—
SPOT ELEVATIONS	x 141.5	x 141.5
CONTOUR LINES	—56—	—56—
DEPRESSION CONTOUR LINES	—#35—	—#35—
HOUSE NUMBER	FL=56.7	S=56.7
FLOOR ELEVATION	FL=56.7	S=56.7
SILL ELEVATION	FL=56.7	S=56.7
WETLAND	—	—
WETLAND FLAGS	—	—
RIP RAP	—	—
STATE HIGHWAY STATION	○	○
SURFACE MOUNTED DELINEATOR	△	△
GUARD POST	△	△
BOLLARD	○ B	● B
SIGN	—	—
BENCH MARK	⊕	⊕
AUGER	⊕ A-1	⊕ A-1
PERCOLATION TEST	⊕ 1	⊕ PT-1
TEST PIT	⊕ 1	⊕ TP-1
BORING	⊕ B-10	⊕ B-11
PROBE	⊕ P-10	⊕ P-11
GROUNDWATER MONITORING WELL	⊕ WS-1	⊕ WS-1
GAS MONITORING WELL	⊕ GMW-10	⊕ GMW-10
GAS VENT	○ GV	● GV
STRAW WATTLES	—	—
ROCK OUTCROP	—	—
DRAINAGE DITCH / SWALE	—	—

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

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
CL	CENTERLINE
CL	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN, DEPTH FROM RIM TO INVERT
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
DWG	DRAWING
E	EAST, ELECTRIC
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FLG	FLANGE
FM	FORCE MAIN
FMCO	FORCE MAIN CLEAN OUT
FT	FEET, FOOT
G	NATURAL GAS
GALV	GALVANIZED
GC	GRANITE CURB
GR	GRANITE
HC	HOUSE CONNECTION
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
I	INVERT
IFC	IN-LINE FLUSHING CONNECTION
INV	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MDC	METROPOLITAN DISTRICT COMMISSION
MDPW	MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS
MECH	MECHANICAL
MH	MANHOLE
MassDEP	MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MWRA	MASSACHUSETTS WATER RESOURCES AUTHORITY
N	NORTH
NE	NORTH EAST
NW	NORTH WEST
NF	NOT FOUND
NO OR #	NUMBER
OD	OUTSIDE DIAMETER
OHW	OVERHEAD WIRE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END, POLYETHYLENE
PL	PROPERTY LINE
PL	PLATE
PS	PRESSURE SEWER
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RQD	ROCK QUALITY
S	SEWER, SOUTH
SCAV	SEWER COMBINATION AIR VALVE
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SMH	SEWER MANHOLE
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE, STAINLESS STEEL
STA	STATION
STL	STEEL
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
TBM	TEMPORARY BENCH MARK
TFC	TERMINAL FLUSHING CONNECTION
THK	THICK (NESS)
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
W/O	WITH
W/O	WITHOUT

CONSTRUCTION NOTES:

- 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.
- 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.
- TEST PITS TO LOCATE EXISTING UTILITIES WILL BE ORDERED BY THE ENGINEER.
- 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 INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
- ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR'S LIMIT OF WORK IS RESTRICTED TO THE EXISTING TRAVELED WAY, UNLESS OTHERWISE STATED ON THE DRAWINGS, OR WHERE APPROVED BY THE ENGINEER.
- CONCRETE CRADLES 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 CRADLES, ARCHES, AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- APPROVED JOINT RESTRAINT METHODS SHALL BE PROVIDED FOR FORCE MAINS WHERE ANY BENDS, TEES, PLUGS, OR WYES ARE INSTALLED. CONCRETE THRUST BLOCKS, ANCHOR BLOCKS AND TIE RODS MAY BE USED FOR 6-INCH AND 8-INCH PIPE WHERE JOINT RESTRAINT IS NOT FEASIBLE. FOR THRUST BLOCK DETAILS AND MINIMUM BLOCK BEARING AREAS, SEE DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- SEWER TRENCHES MAY BE EXCAVATED WIDER 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.
- BELOW THE 'LINE OF NARROW TRENCH LIMIT' THE TRENCH SHOULD NOT BE EXCAVATED BEYOND THE TRENCH WIDTH 'W'. 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.
- 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 BELOW A LINE 12 INCHES ABOVE THE TOP OF THE PIPE UNLESS OTHERWISE REQUIRED BY THE ENGINEER.
- 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 WITH SEWERS EQUAL TO OR GREATER THAN 24 INCHES IN DIAMETER, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 5 FEET OVER ALL PRESSURE AND FORCE MAIN SEWER PIPE. WHERE SHALLOWER INSTALLATIONS ARE APPROVED BY THE ENGINEER, INSULATION WILL BE INSTALLED AS REQUIRED AND AS SPECIFIED.
- CONTRACTOR SHALL USE AWWA C909 PVC FOR GRAVITY SEWER PIPE INSTALLATIONS WITH LESS THAN 3 FEET OF COVER. SEE SPECIFICATIONS.
- 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.
- 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.
- 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.
- SEWER CHIMNEY AND HOUSE CONNECTION LOCATIONS ARE SHOWN FOR ESTIMATING PURPOSES, AND ARE APPROXIMATE IN LOCATION. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- PROTECTION OF WATER SUPPLIES - WHENEVER A SEWER MUST CROSS UNDER A WATER MAIN, THE SEWER SHALL BE LAID 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.
- 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. 'IN' INDICATES UPSTREAM END OF MANHOLE, 'OUT' INDICATES DOWNSTREAM END OF MANHOLE.
- 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.
- ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES.
- THE CONTRACTOR MUST GIVE THE ENGINEER AT LEAST 10 DAYS' NOTICE PRIOR TO PERFORMING ANY WORK IN WETLANDS.
- ELEVATIONS REFERENCED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
- EXISTING UTILITY AND PROPERTY LINE INFORMATION, TOPOGRAPHIC INFORMATION, EDGE OF PAVEMENT, UTILITY POLE LOCATIONS, AND LOCATIONS OF EXISTING ABOVE GROUND STRUCTURES WERE TAKEN FROM PLANS PREPARED BY KUCERA INTERNATIONAL, USING AERIAL PHOTOGRAMETRIC METHODS. DETAILED TOPOGRAPHIC INFORMATION WERE OBTAINED IN SOME AREAS FROM 2021 SURVEYS PERFORMED BY BLACKWELL & ASSOCIATES AND WESTON & SAMPSON.
- A SUBSURFACE EXPLORATION PROGRAM CONSISTING OF SOIL BORINGS AND GEOPROBES WAS PERFORMED ALONG S SHORE ROAD AS PART OF THE SEA STREET PUMP STATION FORCE MAIN NO. 3 PROJECT. THE SUBSURFACE EXPLORATION PROGRAM WAS CONDUCTED BY CRAWFORD DRILLING SERVICES UNDER THE DIRECTION OF ENVIRONMENTAL PARTNERS GROUP. COPIES OF THE BORING LOGS ALONG S SHORE ROAD ARE PROVIDED IN APPENDIX A OF THE SPECIFICATIONS AND ARE FOR INFORMATION PURPOSES AS DESCRIBED HEREIN.

Project:
TOWN OF NANTUCKET,
MASSACHUSETTS



S. SHORE ROAD
SEWER EXTENSION PROJECT,
CONTRACT 1765

SEWER DEPARTMENT
DAVID GRAY, DIRECTOR
81 S. SHORE ROAD
NANTUCKET, MA 02554



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ABP

Reviewed By:

DES

Approved By:

SKP

W&S Project No.:

ENG21-0741

W&S File No.:

247-47

Drawing Title:

ABBREVIATIONS,
NOTES, AND LEGEND

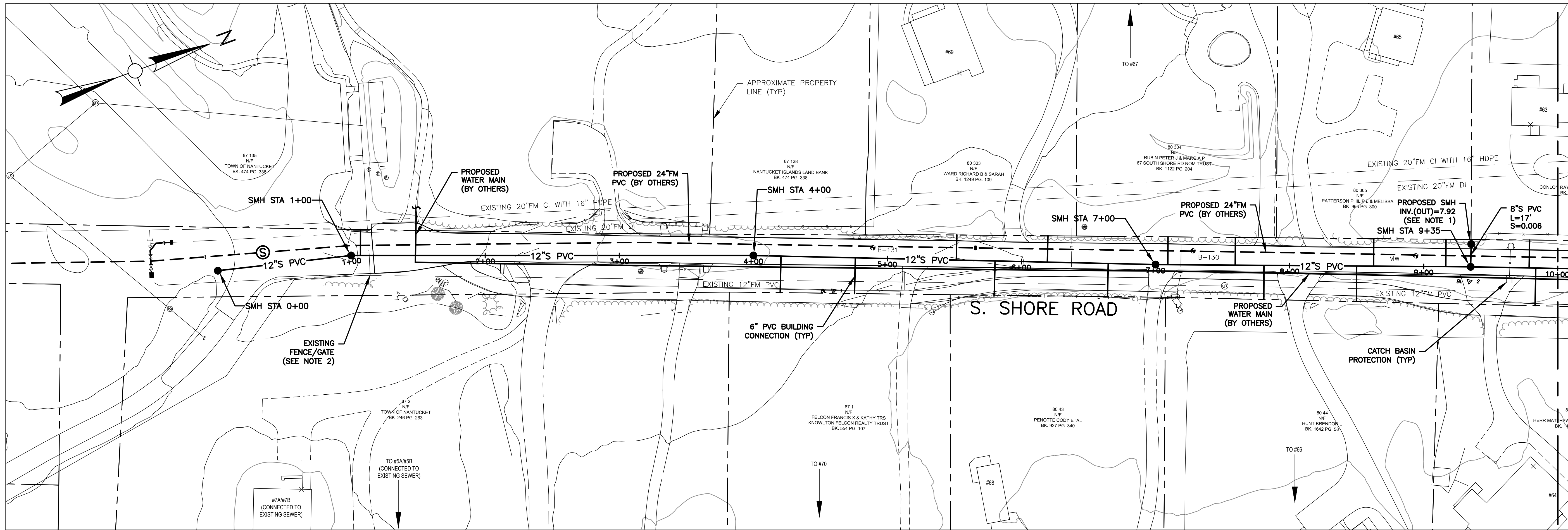
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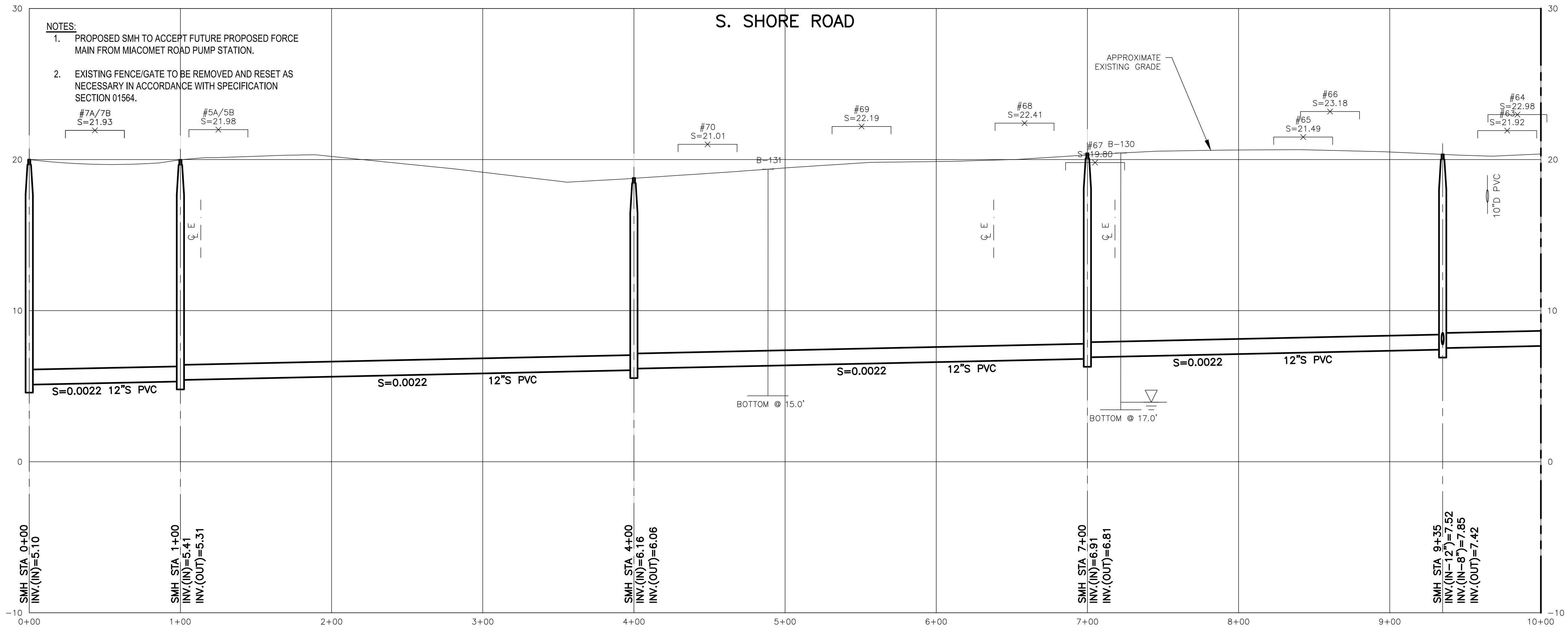
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PLAN
SCALE: 1" = 40'



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

MATCH LINE - SEE SHEET C101

Project:
TOWN OF NANTUCKET,
MASSACHUSETTS



S. SHORE ROAD
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CONTRACT 1765

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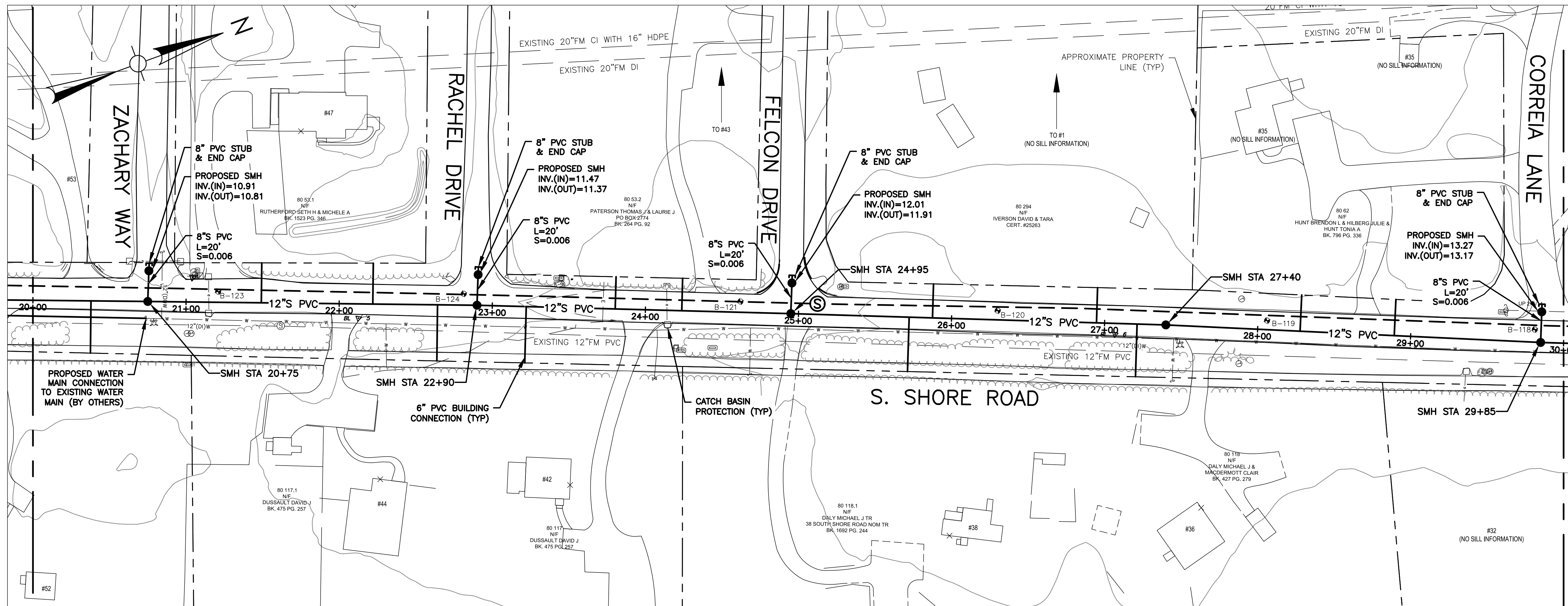
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**S. SHORE ROAD
STA 0+00 TO
STA 10+00**

Sheet Number:
C100
PAGE 3 OF 12

MATCH LINE - SEE SHEET C101

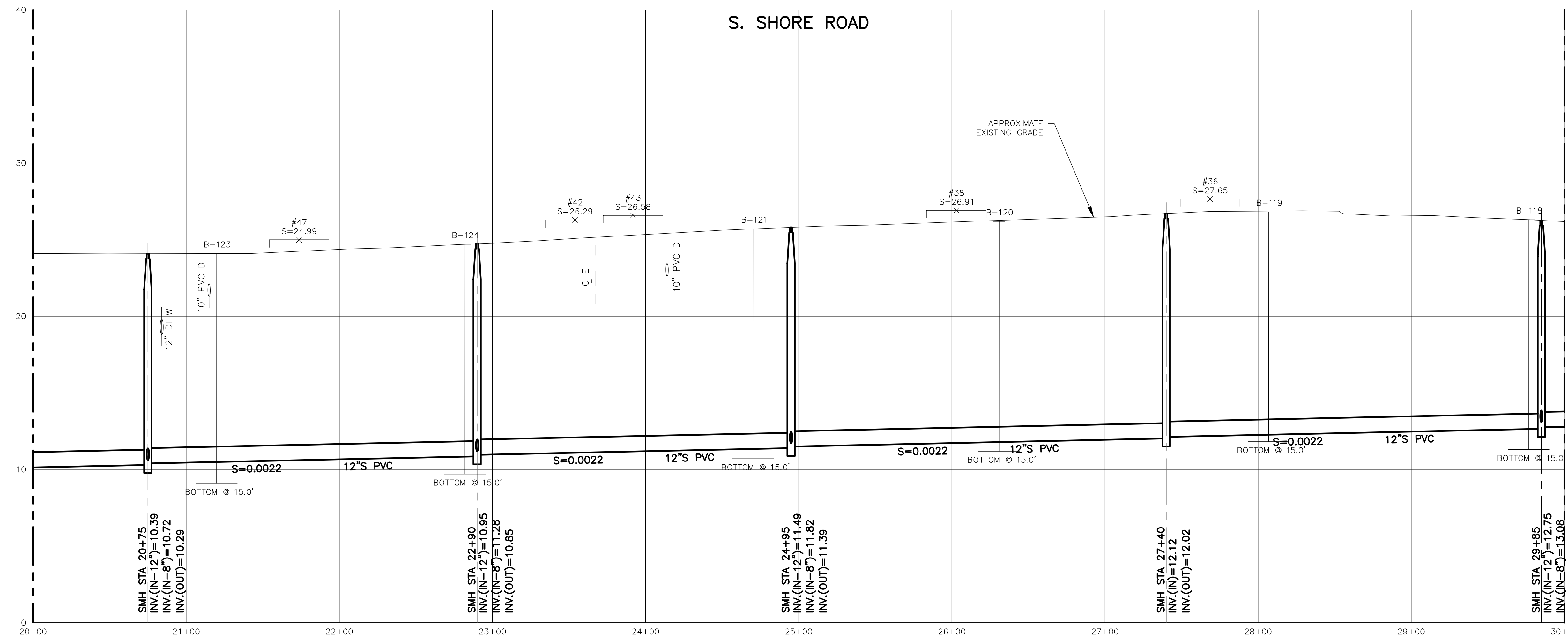
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PLAN
SCALE: 1" = 40'

MATCH LINE - SEE SHEET C101

MATCH LINE - SEE SHEET C103



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

Project:
TOWN OF NANTUCKET,
MASSACHUSETTS



S. SHORE ROAD
SEWER EXTENSION PROJECT,
CONTRACT 1765

SEWER DEPARTMENT
DAVID GRAY, DIRECTOR
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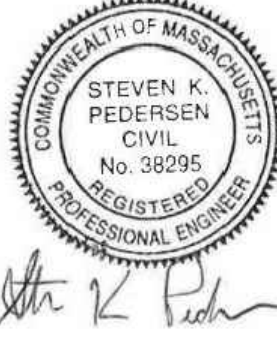
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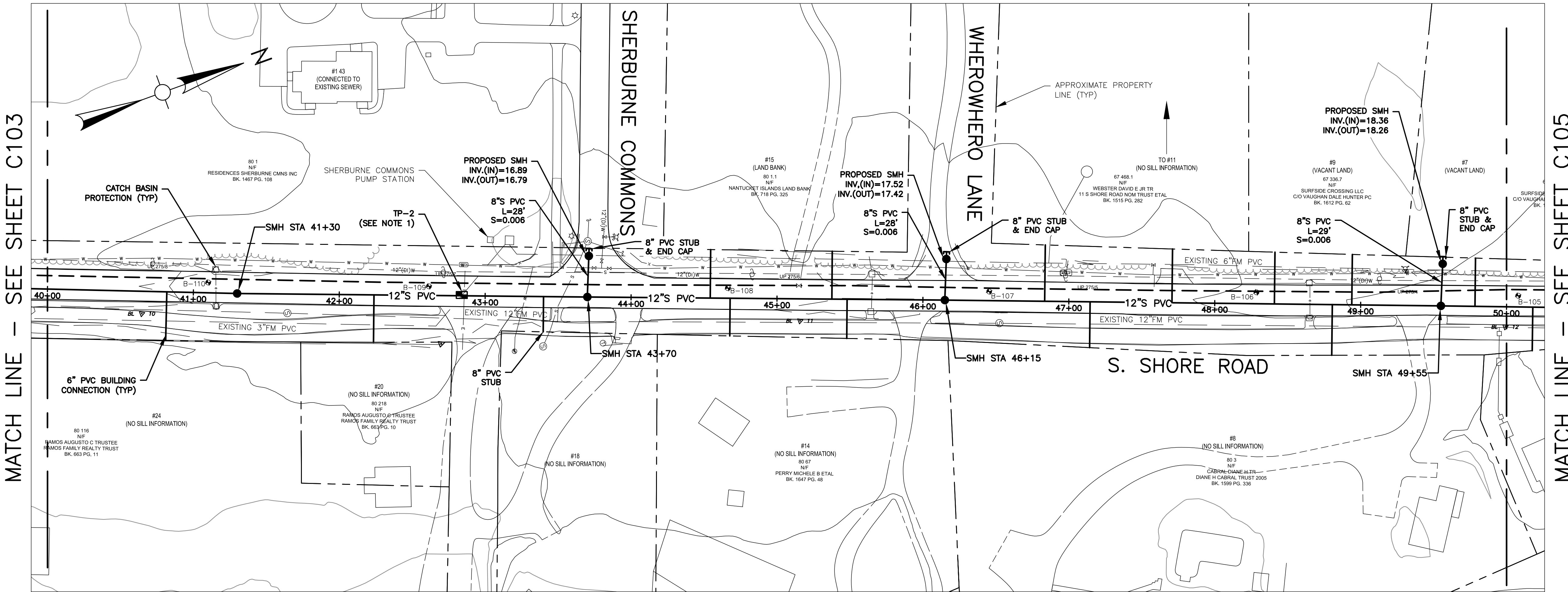
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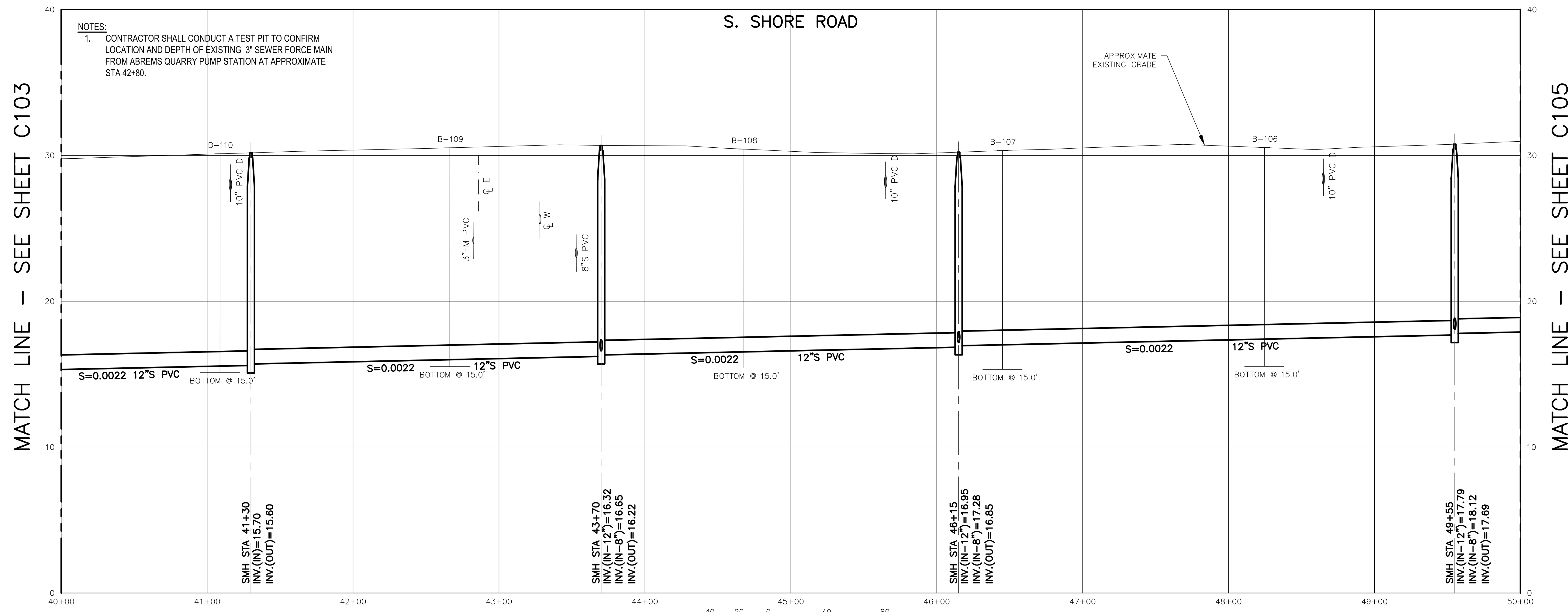
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**S. SHORE ROAD
STA 20+00 TO
STA 30+00**

Sheet Number:
C102

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PLAN
SCALE: 1" = 40'



NOTES:
1. CONTRACTOR SHALL CONDUCT A TEST PIT TO CONFIRM LOCATION AND DEPTH OF EXISTING 3" SEWER FORCE MAIN FROM ABREMS QUARRY PUMP STATION AT APPROXIMATE STA 42+80.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

MATCH LINE - SEE SHEET C103

MATCH LINE - SEE SHEET C105

Project:
TOWN OF NANTUCKET,
MASSACHUSETTS



S. SHORE ROAD
SEWER EXTENSION PROJECT,
CONTRACT 1765

SEWER DEPARTMENT
DAVID GRAY, DIRECTOR
81 S. SHORE ROAD
NANTUCKET, MA 02554

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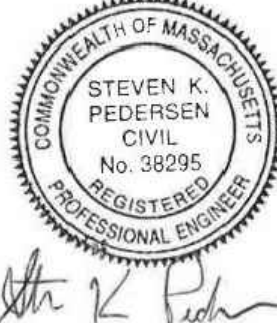
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STEVEN K. PEDERSEN
CIVIL
No. 38295
REGISTERED PROFESSIONAL ENGINEER

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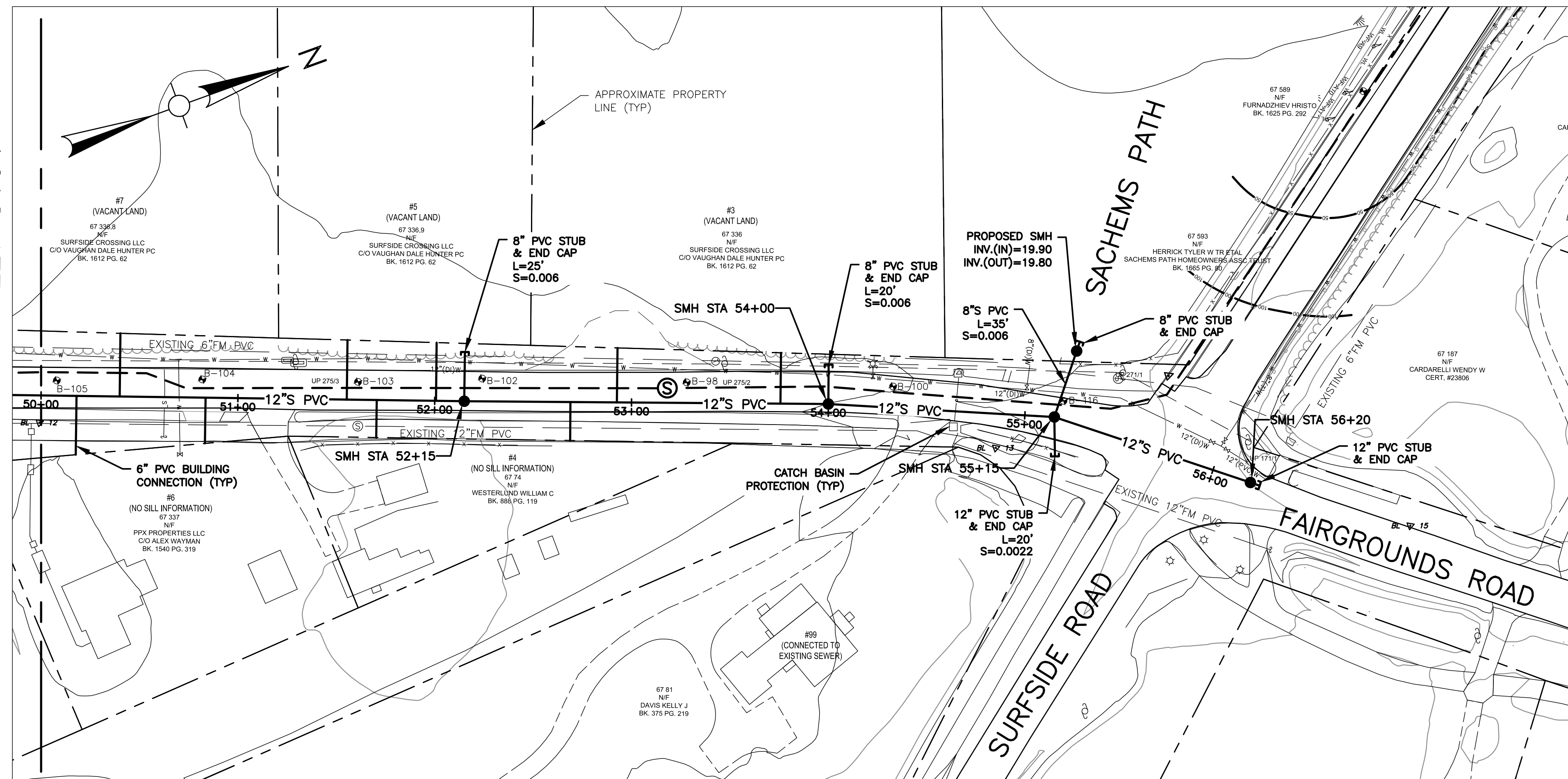
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W&S File No.: 247-42

Drawing Title:
**S. SHORE ROAD
STA 40+00 TO
STA 50+00**

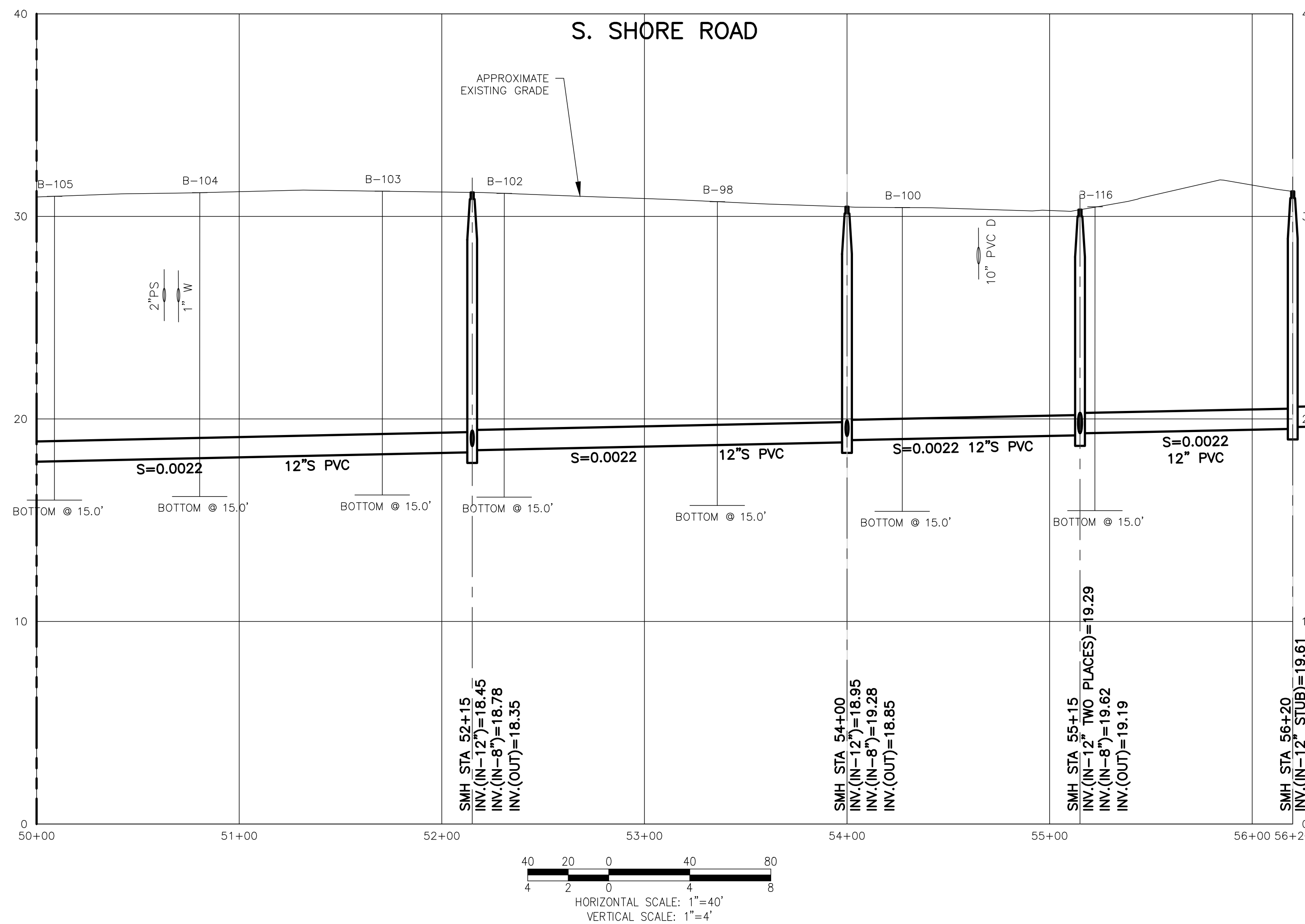
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C104
PAGE 7 OF 12

MATCH LINE - SEE SHEET C104



PLAN
SCALE: 1" = 40'

MATCH LINE - SEE SHEET C104



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

Project:
TOWN OF NANTUCKET,
MASSACHUSETTS

S. SHORE ROAD
SEWER EXTENSION PROJECT,
CONTRACT 1765

SEWER DEPARTMENT
DAVID GRAY, DIRECTOR
81 S. SHORE ROAD
NANTUCKET, MA 02554

Weston & Sampson
Weston & Sampson Engineers, Inc.
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

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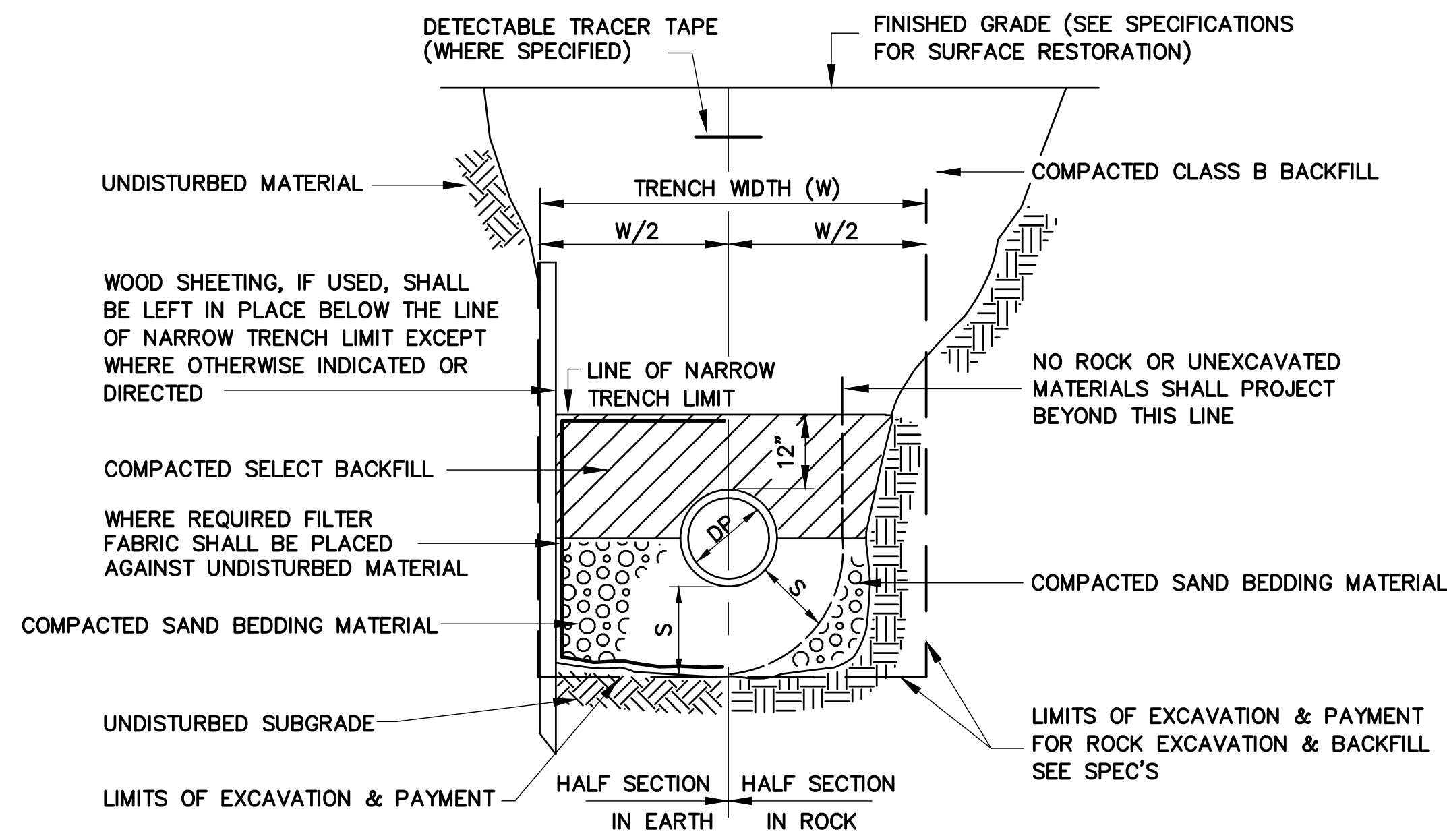
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Date: 11/17/2021
Drawn By: ABP
Reviewed By: DES
Approved By: SKP
W&S Project No.: ENG21-0741
W&S File No.: 247-41

Drawing Title:
**S. SHORE ROAD
STA 50+00 TO
STA 56+20**

Sheet Number:
C105
PAGE 8 OF 12

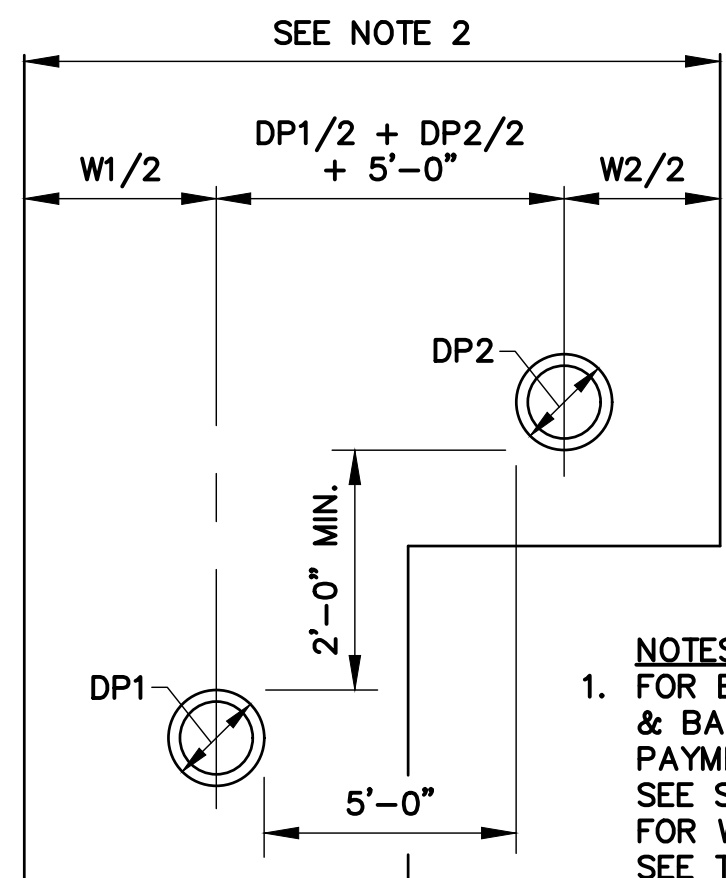
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Rev 1.6 Date: 04/10/2019



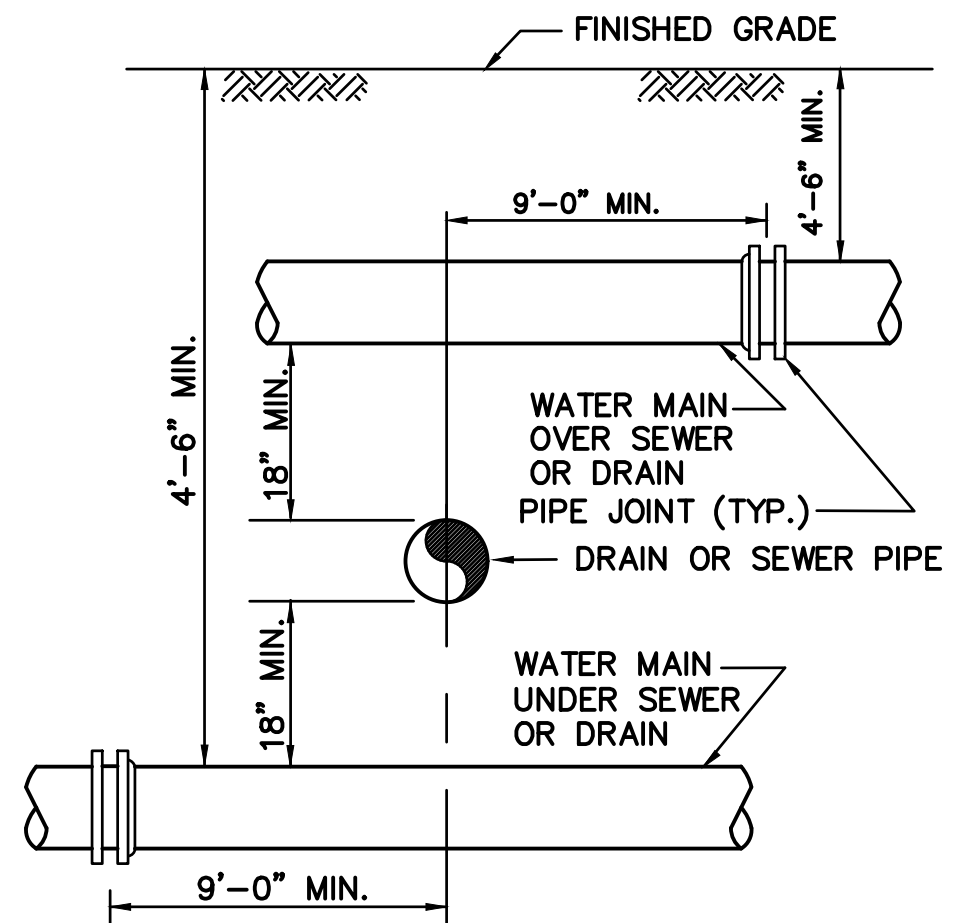
TRENCH DETAIL
(SEWER, FORCE MAIN, STORM DRAIN)
N.T.S.

NOTE:
FOR W, DP, & S, SEE TABLE A

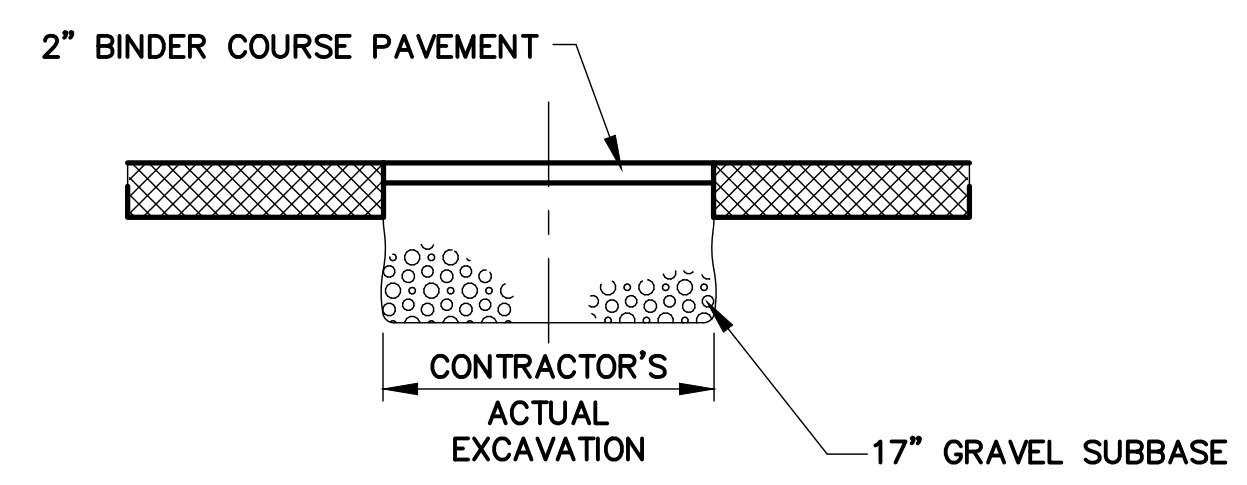


**SEWER AND FORCE MAIN
IN SAME TRENCH
EXCAVATION & PAYMENT LIMITS**
N.T.S.

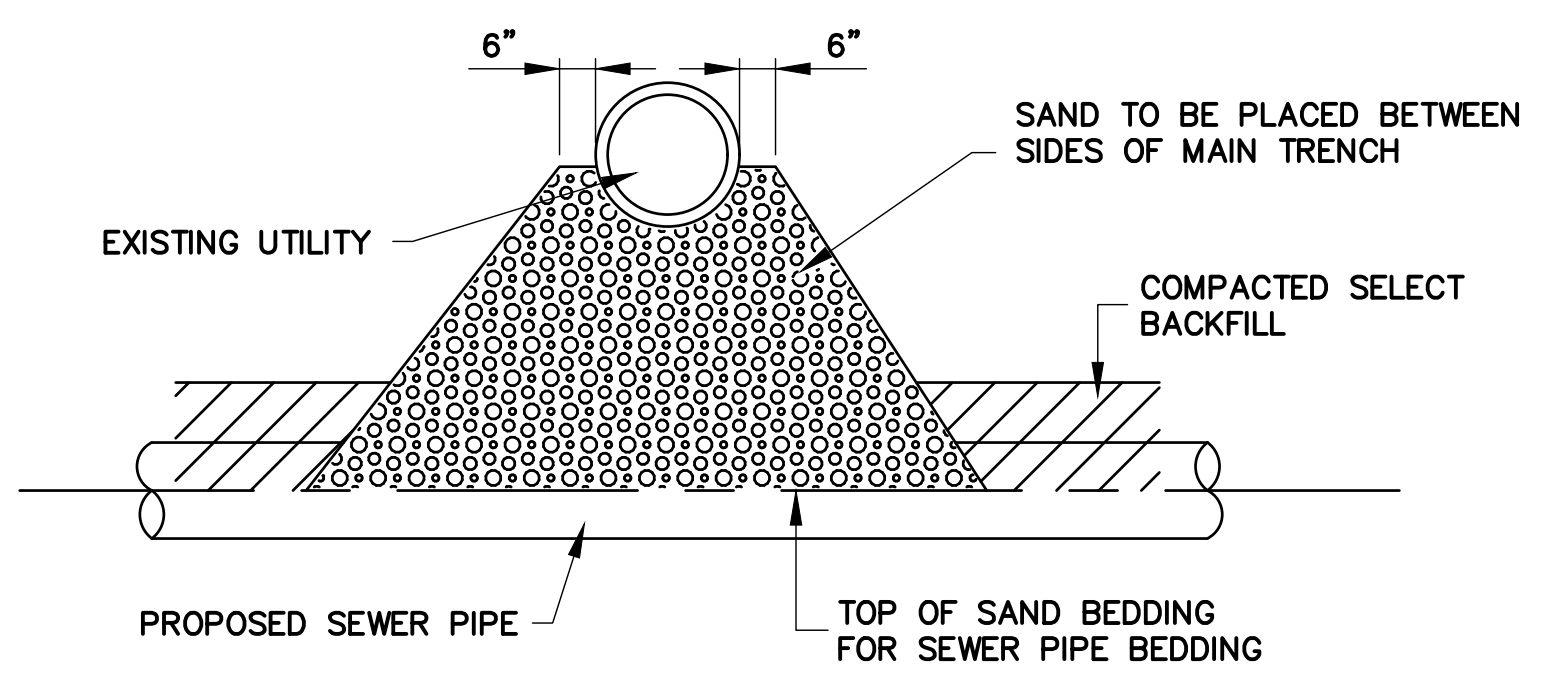
- NOTES:
- FOR EXCAVATION, BEDDING & BACKFILL DETAILS, AND FOR PAYMENT LIMITS NOT SHOWN, SEE SEWER TRENCH DETAIL. FOR W1, W2, DP1, & DP2, SEE TABLE A.
 - FOR PAYMENT OF PAVEMENT REPLACEMENT, THIS EXCAVATION CONSTITUTES ONE TRENCH.



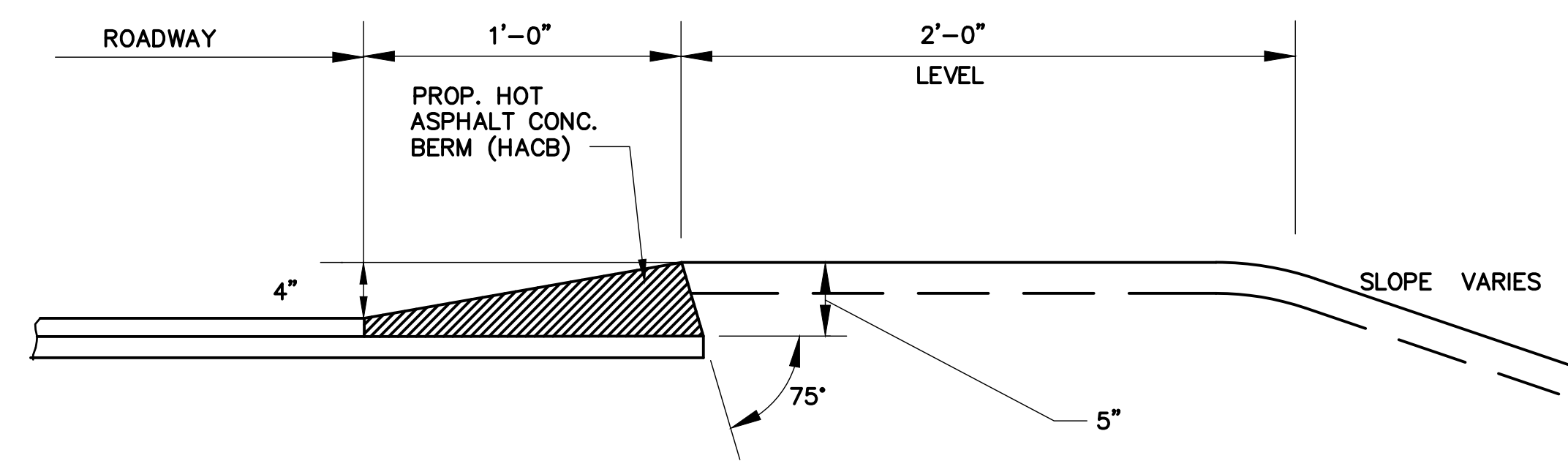
SEWER OR DRAIN CROSSING DETAIL
N.T.S.



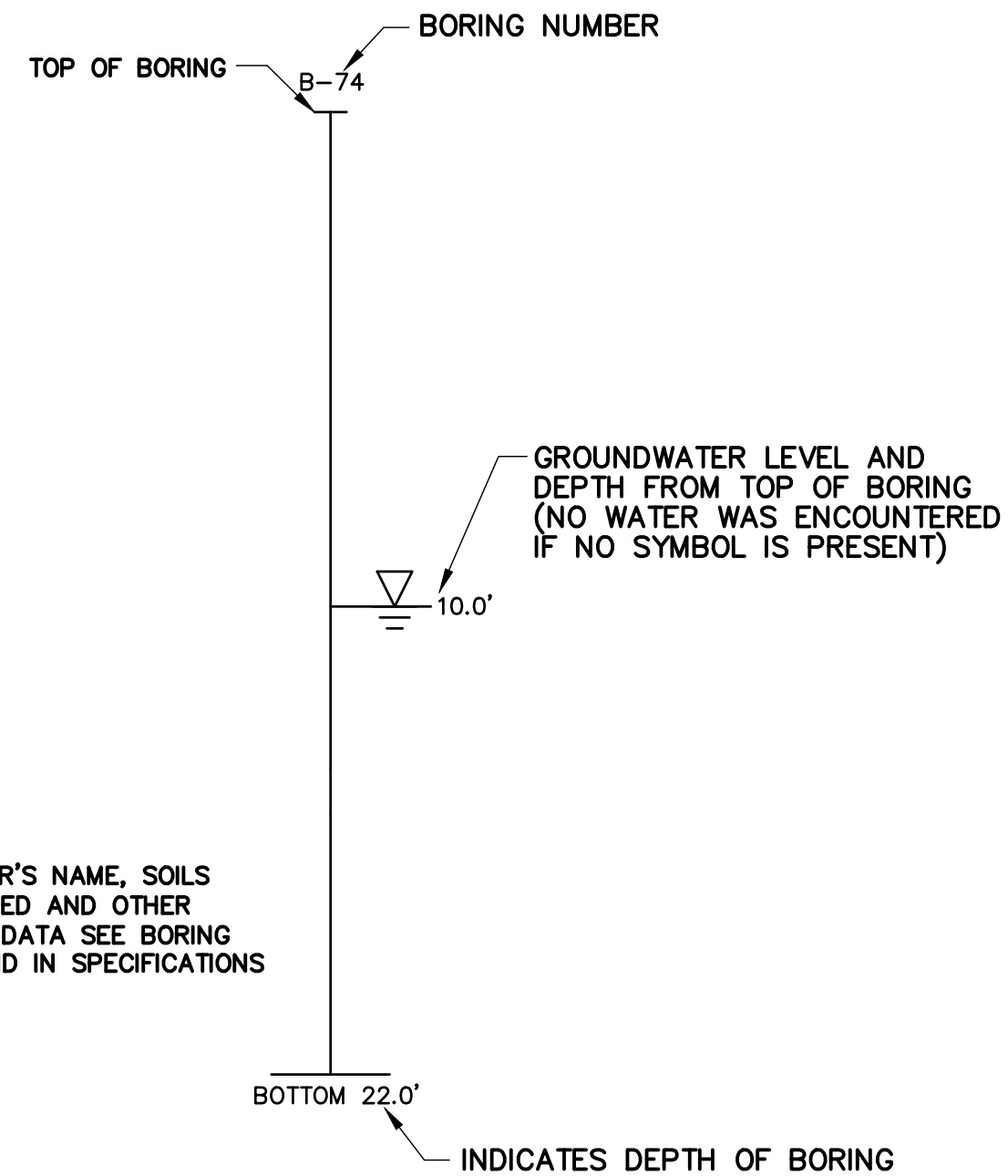
TEMPORARY PAVEMENT DETAIL
N.T.S.



UTILITY CROSSING DETAIL
N.T.S.



CAPE COD BERM
N.T.S.



BORING LOG LEGEND
N.T.S.

NOTE:
FOR DRILLER'S NAME, SOILS ENCOUNTERED AND OTHER PERTINENT DATA SEE BORING LOGS BOUND IN SPECIFICATIONS

Project:
TOWN OF NANTUCKET,
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CIVIL
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REGISTERED PROFESSIONAL ENGINEER

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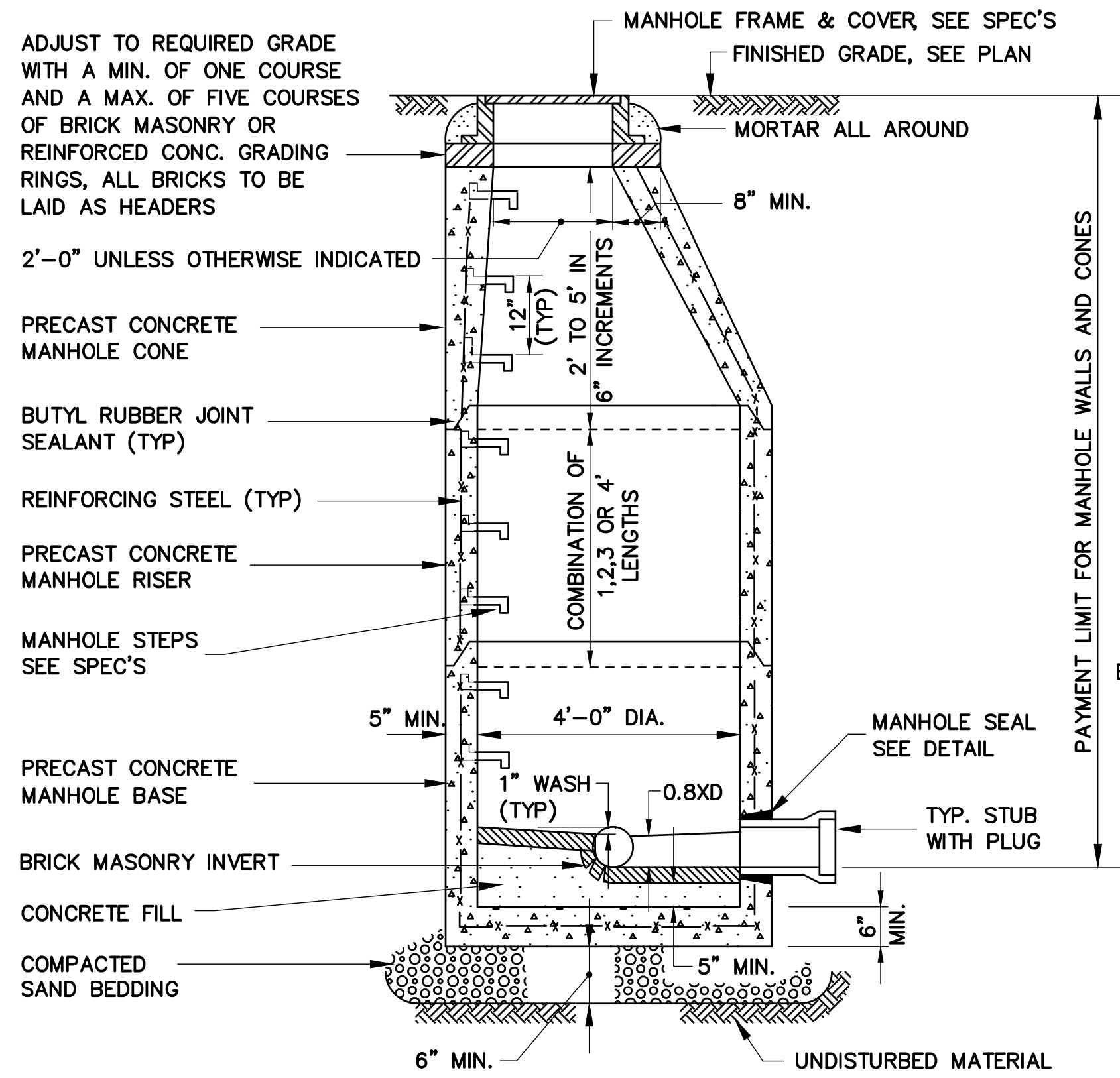
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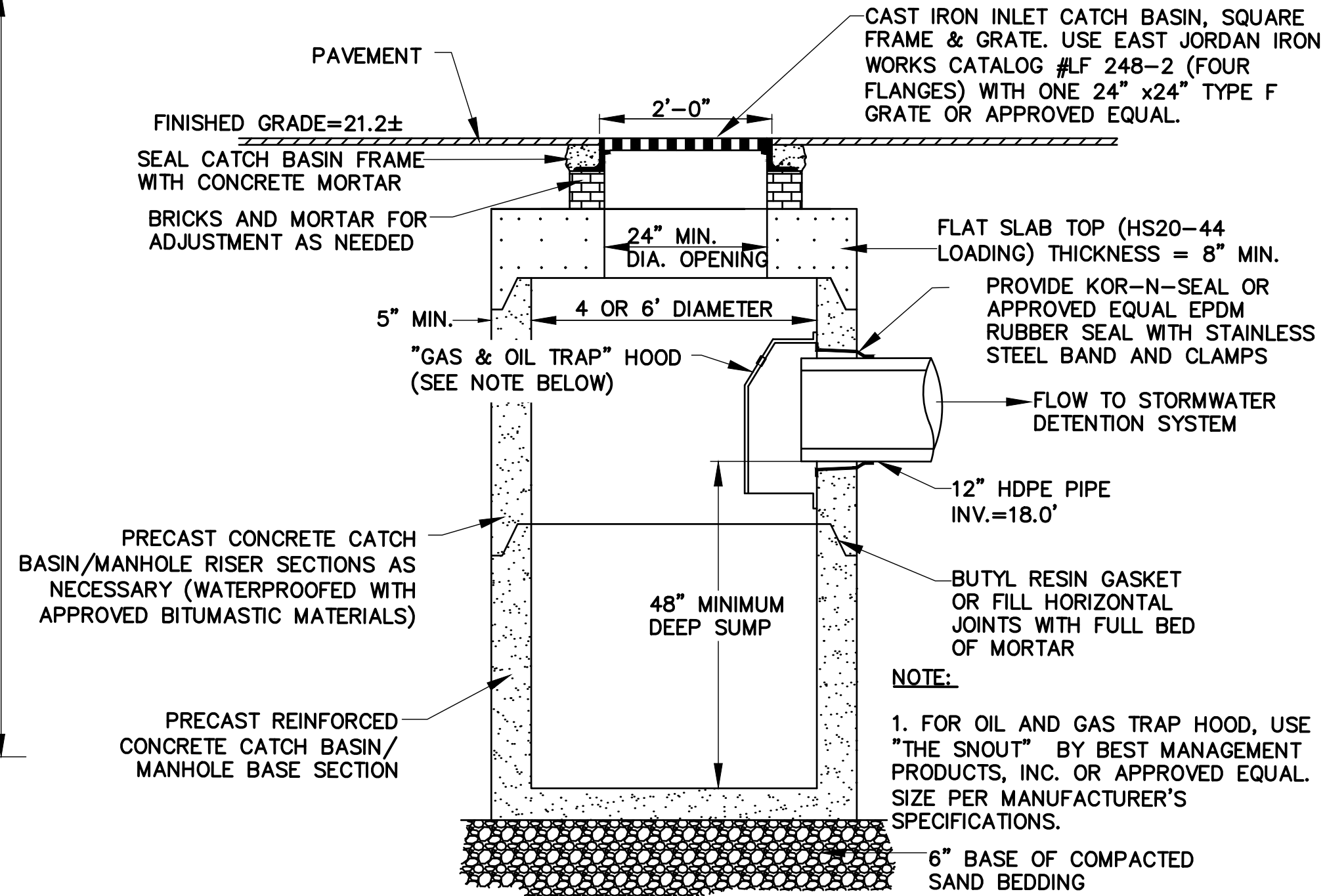
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DETAILS II

Sheet Number:
C501
PAGE 10 OF 12

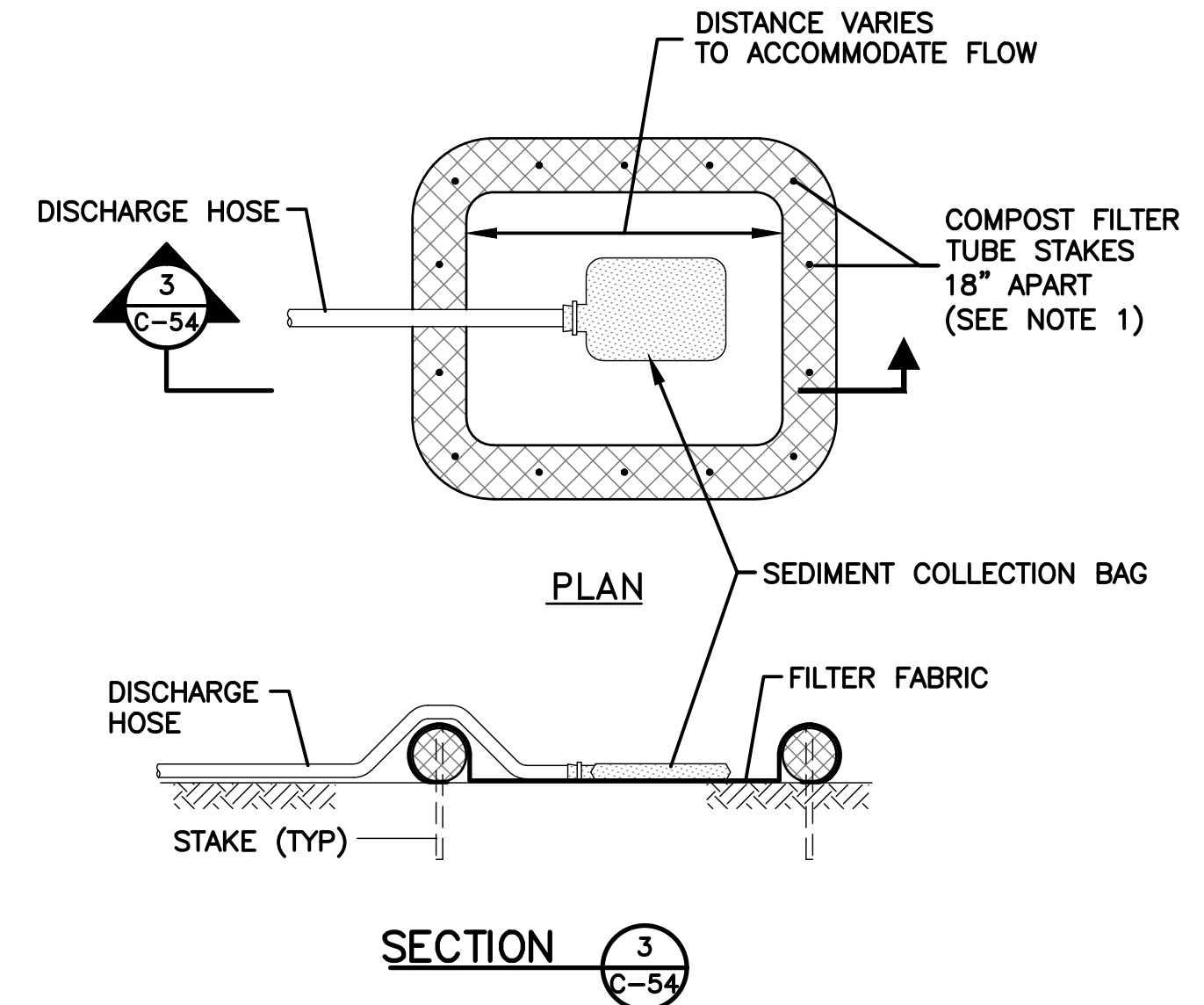
Rev. 1.6 Date: 04/10/2019



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

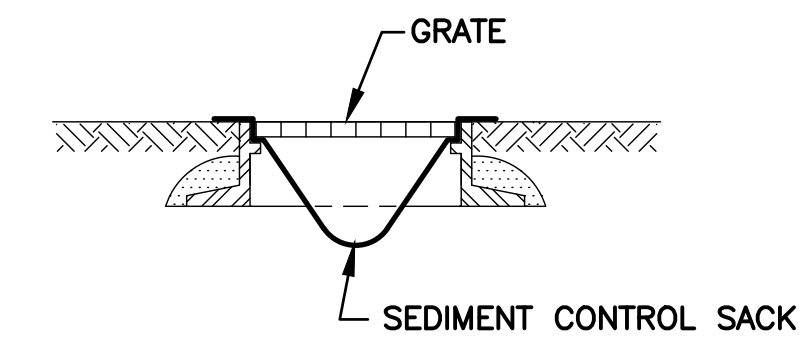


DEEP SUMP CATCH BASIN
N.T.S.

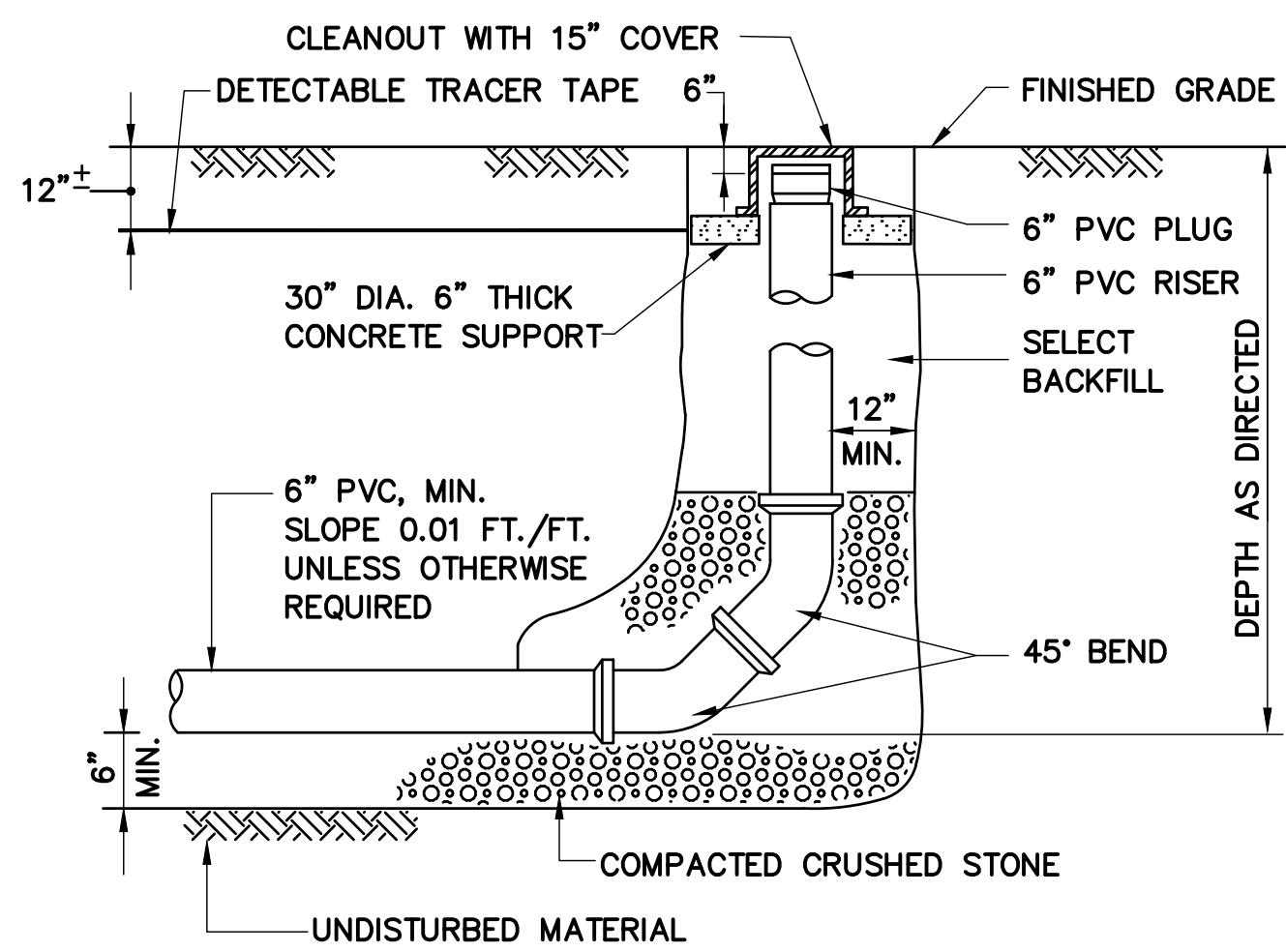


NOTE:
1. WHEN STAKING IS NOT POSSIBLE, SUCH AS WHEN TUBES MUST BE PLACED ON PAVEMENT, HEAVY CONCRETE OR CINDER BLOCKS CAN BE USED BEHIND TUBES UP TO 5 FT. APART OR AS REQUIRED TO SECURE TUBES IN PLACE.

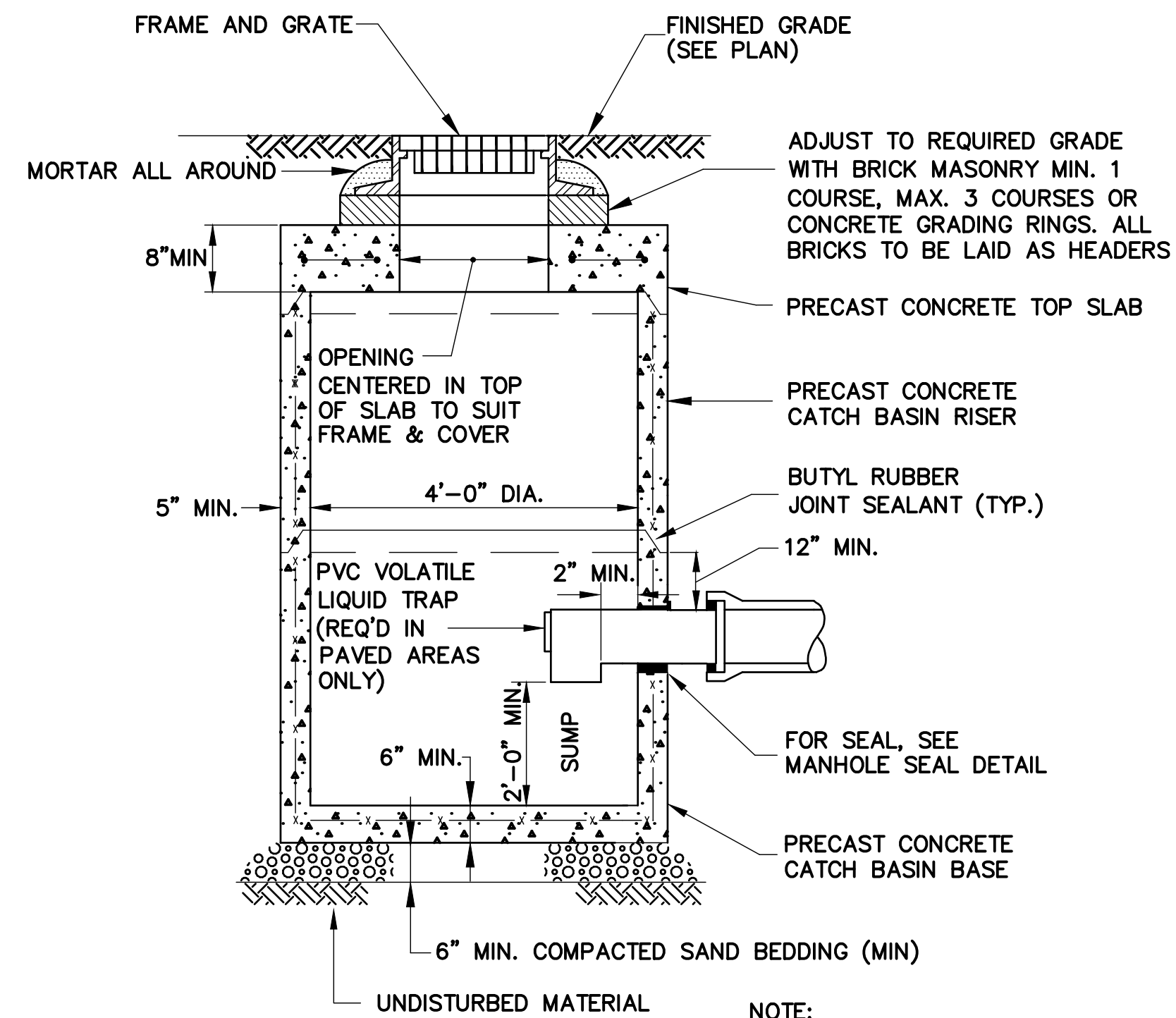
DEWATERING DISCHARGE DISPOSAL DETAIL
N.T.S.



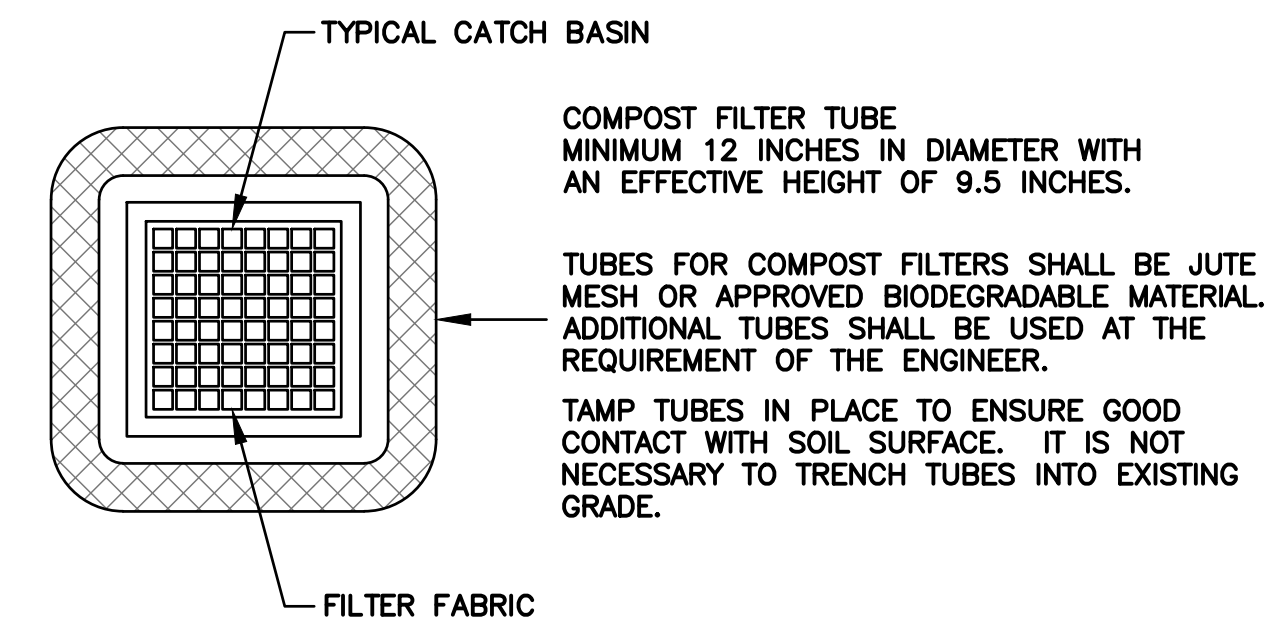
CATCH BASIN PROTECTION DETAIL
N.T.S.



CLEANOUT DETAIL
N.T.S.



STANDARD SUMP CATCH BASIN DETAIL
N.T.S.



- 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.
 5. WHEN STAKING IS NOT POSSIBLE, SUCH AS WHEN TUBES MUST BE PLACED ON PAVEMENT, HEAVY CONCRETE OR CINDER BLOCKS CAN BE USED BEHIND TUBES UP TO 5 FT. APART OR AS REQUIRED TO SECURE TUBES IN PLACE.
 6. TUBES CAN BE PLACED DIRECTLY ON EXISTING PAVEMENT WHEN NECESSARY.
 7. PROVIDE A 3 FT. MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM. SECURE ENDS OF TUBES WITH STAKES SPACED 18 IN. APART THROUGH TOPS OF TUBES.

CATCH BASIN PROTECTION DETAIL
N.T.S.

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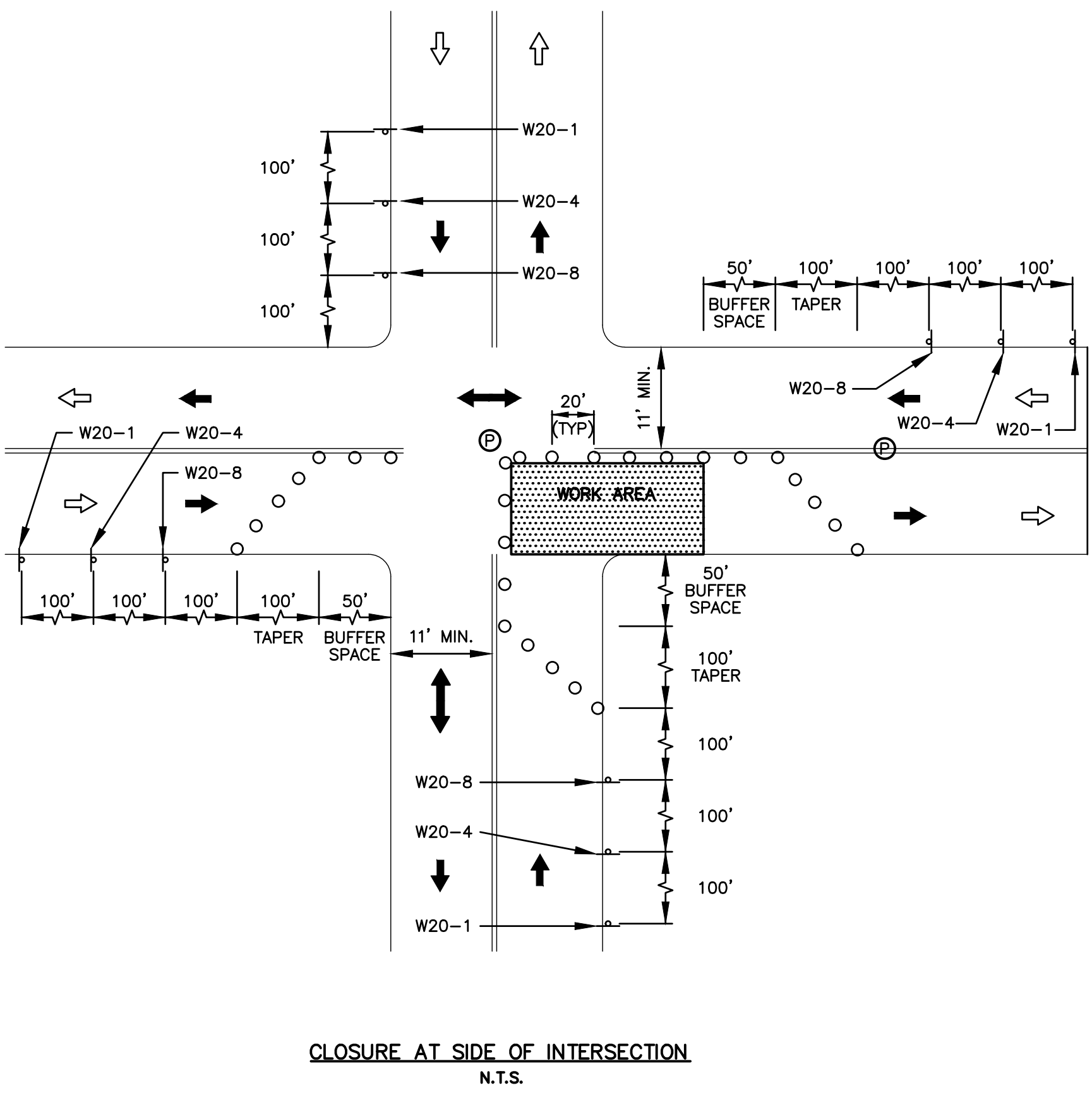
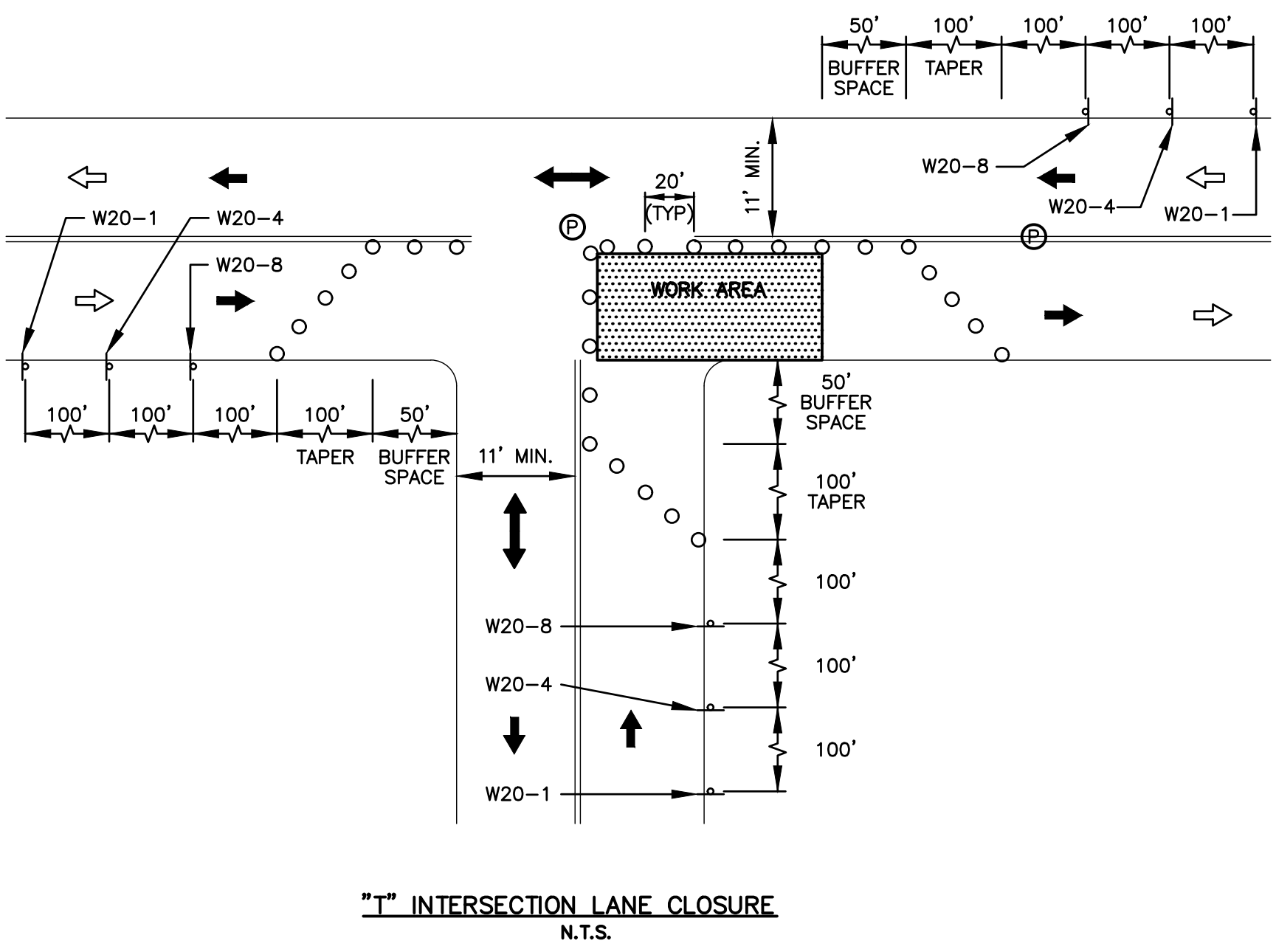
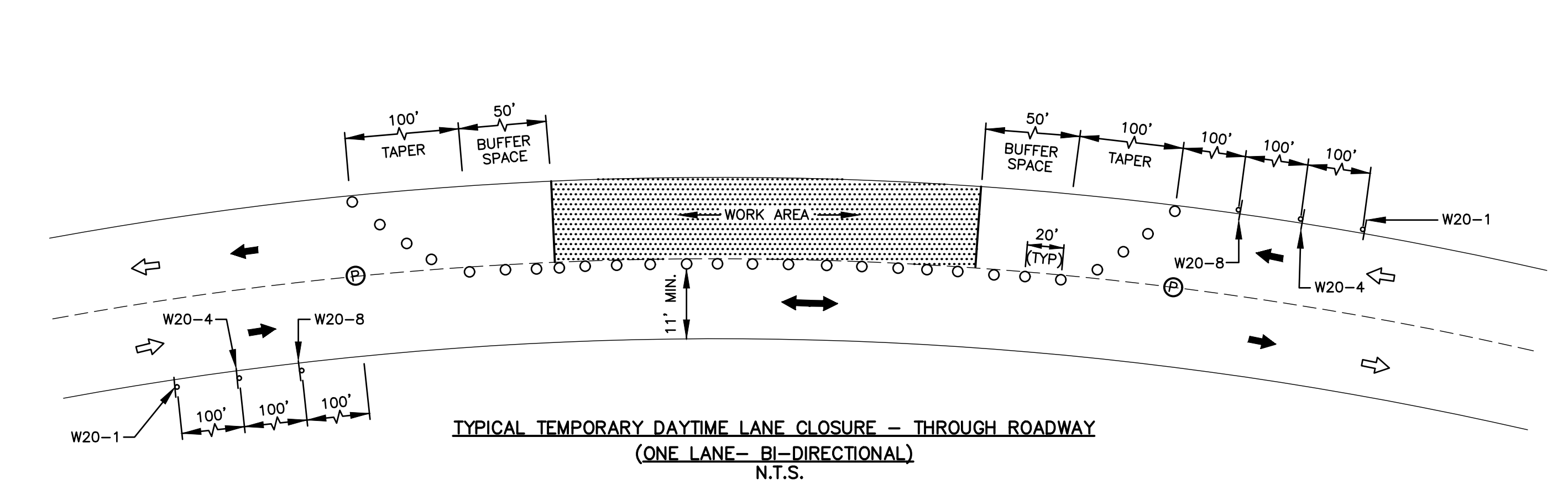
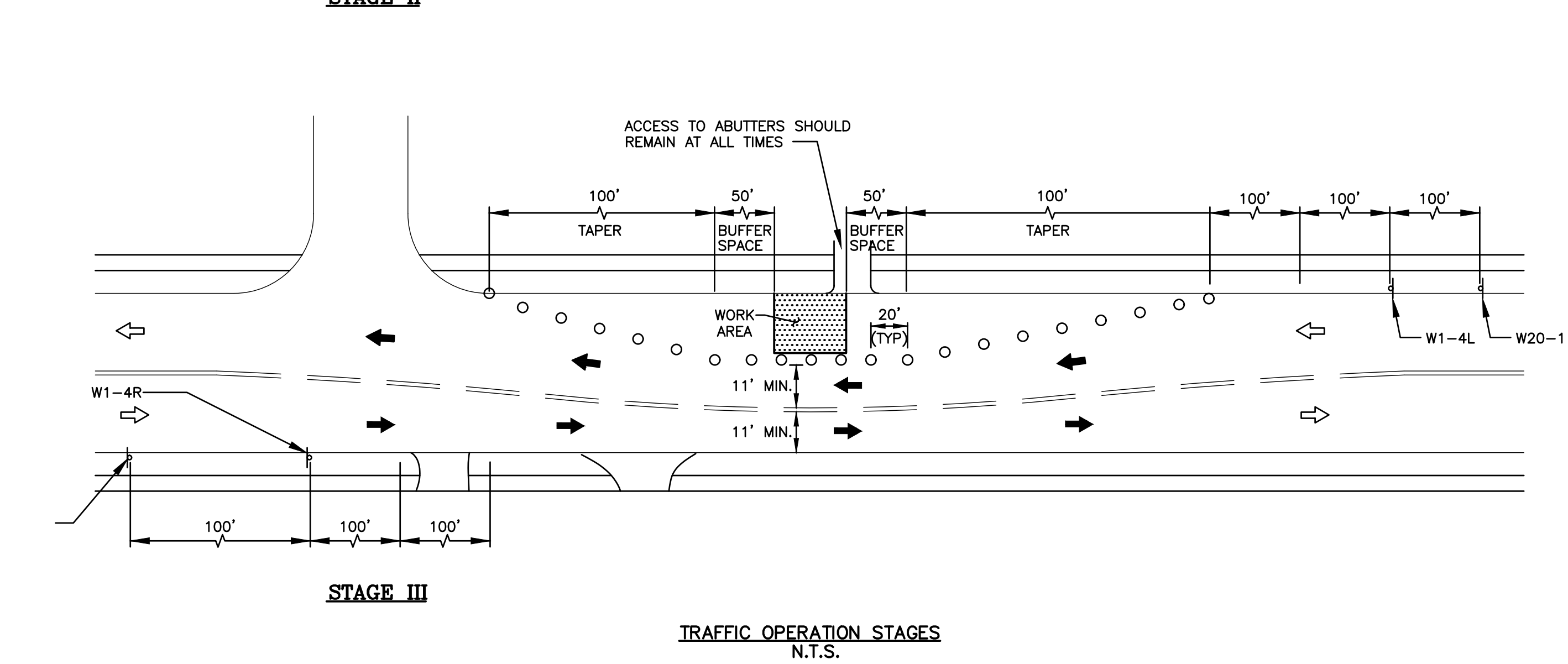
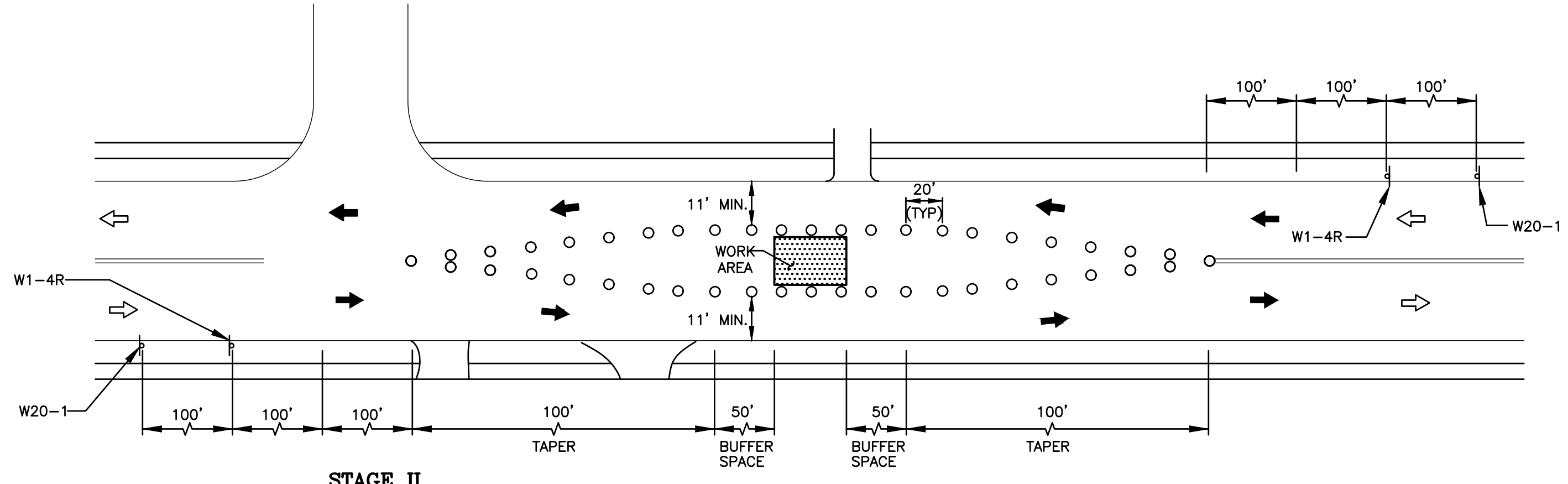
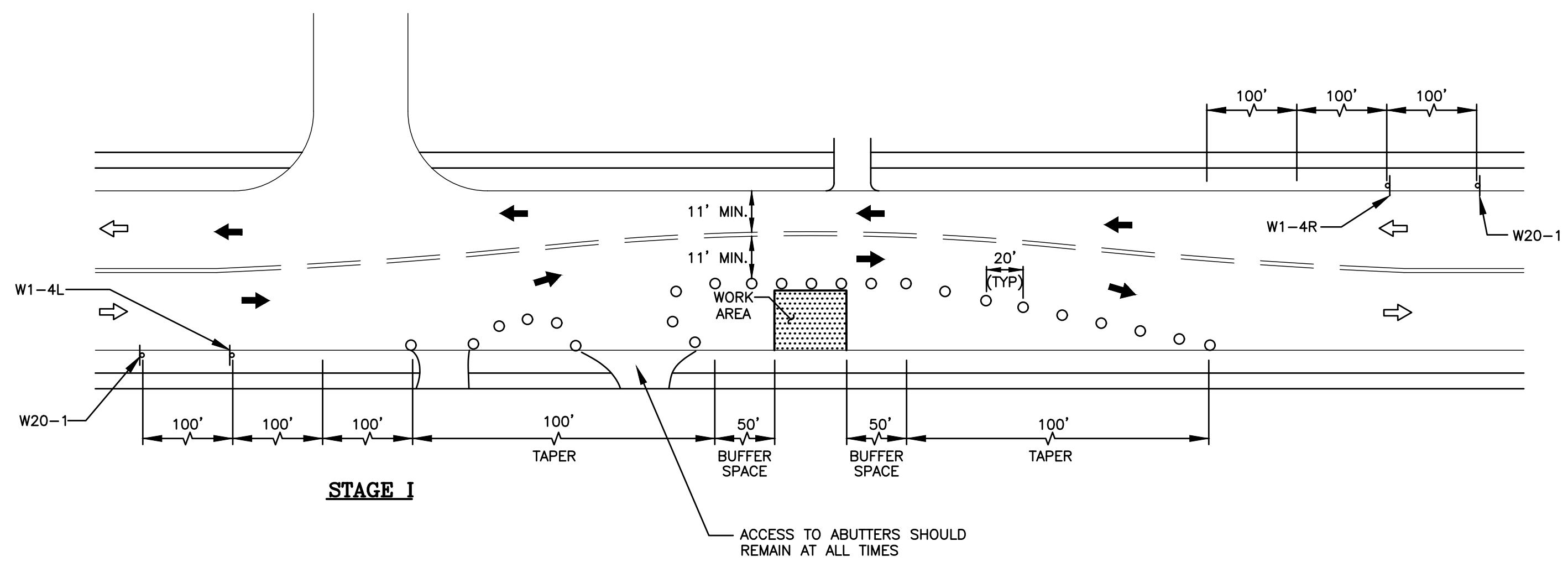
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DETAILS III
Sheet Number:
C502
PAGE 11 OF 12



TEMPORARY TRAFFIC SIGN SUMMARY

MUTCD CODE	SIZE OF SIGN		SIGN
	WIDTH	HEIGHT	
W1-4L	30"	30"	
W1-4R	30"	30"	
W20-1	36"	36"	
W20-4	36"	36"	
W20-8	36"	36"	
C20-2	36"	18"	

NOTE:

- 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:

- 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.
- ADVANCE WARNING SIGN PLACEMENT AND TAPER LENGTH TO BE ADJUSTED ACCORDING TO STREET CONDITIONS AND DRIVEWAY OPENINGS.
- ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES.
- 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.
- NONESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS.
- PEDESTRIANS SHALL BE PROVIDED WITH ACCESS AND SAFE PASSAGE THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE AT ALL TIMES.
- 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.
- ADVISORY SPEED PLATES (W13-1 - SEE CURRENT EDITION OF MUTCD) SHALL BE USED IF APPLICABLE AND AS REQUIRED BY THE ENGINEER.
- NO DIFFERENCE IN ROADWAY LANE ELEVATION WILL BE ALLOWED AT THE END OF THE WORK DAY.
- 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.
- DASHED LINES SHOW LANE DESIGNATIONS TO BE USED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT ANY REVISIONS TO THE CONSTRUCTION ZONE SAFETY PLAN TO THE ENGINEER FOR APPROVAL.
- THIS CONSTRUCTION ZONE SAFETY PLAN SHALL NOT RELIEVE THE CONTRACTOR OF HIS SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.

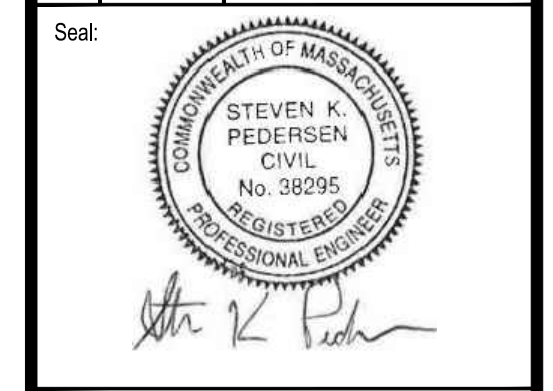


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CONSTRUCTION ZONE SAFETY PLAN

Sheet Number:

C503

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