

CEDAR POINT GRAVITY SEWER REPLACEMENT

TOWN OF SCITUATE, MA
CONTRACT # 17-SS-46

FEBRUARY 2020

FOR PERMITTING

BOARD OF SELECTMEN

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ANTHONY V. VEGNANI
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TOWN ADMINISTRATOR

JAMES BOUDREAU

DIRECTOR OF PUBLIC WORKS

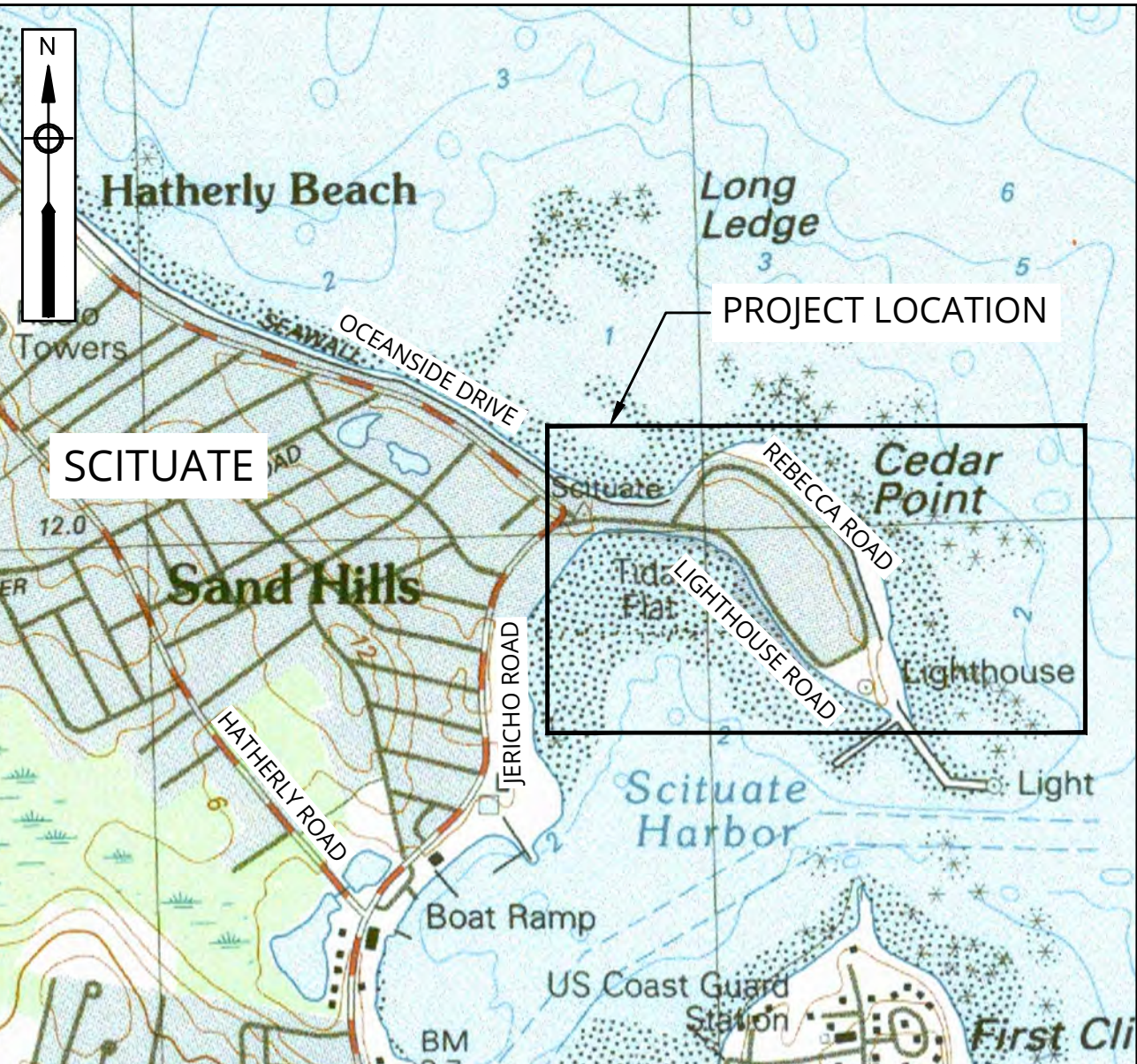
KEVIN CAFFERTY

DPW ENGINEERING DIVISION

SEAN MCCARTHY, TOWN ENGINEER

DPW SEWER DIVISION

WILLIAM BRANTON, SUPERVISOR



VICINITY MAP

1"= 1000'

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ENVIRONMENTAL
PARTNERS

GENERAL NOTES:

1. BASE MAP INFORMATION IS BASED ON EXISTING CONDITION SURVEY RECEIVED FROM THE TOWN OF SCITUATE DEPARTMENT OF PUBLIC WORKS (JANUARY 2020), SUPPLEMENTAL SURVEY PERFORMED BY MERRILL ENGINEERS AND LAND SURVEYORS INC. (FEBRUARY 2020), AND SUPPLEMENTAL GPS SURVEY BY ENVIRONMENTAL PARTNERS GROUP, INC. (FEBRUARY 2020). PROPERTY LINE INFORMATION IS TAKEN FROM MASSGIS. ELEVATIONS ARE BASED ON NAVD88. IT IS NOTED THAT ADDITIONAL UTILITY STRUCTURES MAY EXIST.
2. ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY DIG SAFE AT LEAST 72 HOURS IN ADVANCE, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO ANY EXCAVATION.
3. THE CONTRACTOR IS ADVISED TO TAKE ALL PRECAUTIONS AND MAKE ALL INVESTIGATIONS NECESSARY TO PERFORM THE WORK. THE OWNER WILL NOT CONSIDER CONTRACTORS UNFAMILIARITY WITH THE PROJECT OR SITE CONDITIONS AT THE TIME OF BID AS A BASIS FOR ADDITIONAL COMPENSATION.
4. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES, PRIVATE PROPERTY, OR WITHIN 100 FEET OF WETLANDS.
5. NORTH DIRECTION SHOWN IS APPROXIMATE.
6. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
7. THE CONTRACTOR SHALL RESTORE ALL DAMAGED PUBLIC AND PRIVATE PROPERTY TO ITS PRE-CONSTRUCTION CONDITION AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES, BUSHES, PLANTS, FLOWERS, STONE WALLS, SEA WALLS, FENCES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS THEY ARE NOTED TO BE REMOVED. CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER, ALL DAMAGED ITEMS.
8. ALL EXISTING WATER AND STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE. THE CONTRACTOR SHALL REPAIR ANY EXISTING WATER MAINS, WATER SERVICES, STORM DRAIN LINES, OR CULVERTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
9. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO THE RESPECTIVE UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
10. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY TO ANY SUCH STRUCTURE CAUSED BY, OR RESULTING FROM, THE CONTRACTORS OPERATIONS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION, OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY AND THE TOWN.
11. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT, AND OTHER ITEMS DAMAGED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE TOWN OF SCITUATE DEPARTMENT OF PUBLIC WORKS AND THE ENGINEER.
12. OPEN TRENCHES MUST BE BACKFILLED AT THE END OF THE WORKDAY AND/OR COVERED WITH STEEL PLATES AND RAMPED AS APPROVED BY THE TOWN OF SCITUATE DEPARTMENT OF PUBLIC WORKS.
13. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
14. THE CONTRACTOR SHALL HANDLE GROUNDWATER, WHERE ENCOUNTERED, IN AN APPROVED MANNER. DURING ANY DEWATERING, THE CONTRACTOR SHALL USE STONE AROUND THE SUCTION END TO MINIMIZE DISCHARGE OF TRENCH MATERIALS. THE DISCHARGED WATER SHALL PASS THROUGH FILTER FABRIC.
15. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR WORK IN ROADWAYS. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL PERMITS AS AN INTEGRAL PART OF HIS WORK.
16. IN AREAS WHERE CONSTRUCTION ACTIVITIES ARE ANTICIPATED TO OCCUR WITHIN PRIVATE PROPERTY, PROPERTY LINE LOCATIONS ARE TO BE REVIEWED WITH THE TOWN OF SCITUATE PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
17. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS AND STATIONING SHALL PREVAIL. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
18. ELEVATIONS OF EXISTING STRUCTURES ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE DRAWINGS AND RECORDS. ALL ELEVATIONS SHOWN ARE IN NAVD 88. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL ELEVATIONS, DIMENSIONS, ANGLES AND EXISTING CONDITIONS AT THE WORK SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
19. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.

20. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATIONS OF ALL EXISTING SEWER SERVICE CONNECTIONS PRIOR TO CONSTRUCTING REPLACEMENT SERVICE CONNECTIONS WHEN REQUIRED.
21. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO THE TOWN OF SCITUATE AND THE ENGINEER. THE CONTRACTOR SHALL LIMIT HIS ACTIVITIES TO THESE AREAS.
22. THE CONTRACTOR SHALL SAW CUT ALL PAVEMENT TO ITS TOTAL DEPTH IN THE PROCESS OF INSTALLING NEW UTILITIES IN ALL PAVED AREAS INCLUDING STREETS, DRIVEWAYS, AND SIDEWALKS.
23. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER TO DETERMINE WHETHER TO RAISE OR LOWER THE PROPOSED UTILITIES TO CLEAR EXISTING UTILITIES.
22. CONSTRUCTION WORK HOURS WILL BE MONDAY THROUGH FRIDAY FROM 7AM TO 5PM.

SEWER CONSTRUCTION NOTES:

1. SEWER TRENCHES MAY BE EXCAVATED WIDER THAN THE PAY LIMIT. ANY SUCH ADDITIONAL EXCAVATION SHALL BE AT THE CONTRACTORS EXPENSE AND SHALL NOT BE MEASURED FOR PAYMENT.
2. OPENINGS FOR PIPE IN FIBERGLASS MANHOLE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
3. WASTE DISPOSAL ONLY WITH APPROVAL OF THE ENGINEER AND OWNER.

TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES UNLESS OTHERWISE APPROVED. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
2. PRIOR TO CLOSING ANY ROADWAY (PARTIALLY OR COMPLETELY), MUNICIPAL POLICE, THE TOWN AND LOCAL FIRE OFFICIALS SHALL BE NOTIFIED. THE CONTRACTOR SHALL COMPLY WITH ANY CONDITIONS SET BY THE PUBLIC SAFETY OFFICIALS, IN CONJUNCTION WITH THE ENGINEER AND OWNER.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN PERMANENT AND TEMPORARY TRAFFIC CONTROL DEVICES AS NECESSARY AND IN A MANNER CONSISTENT WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

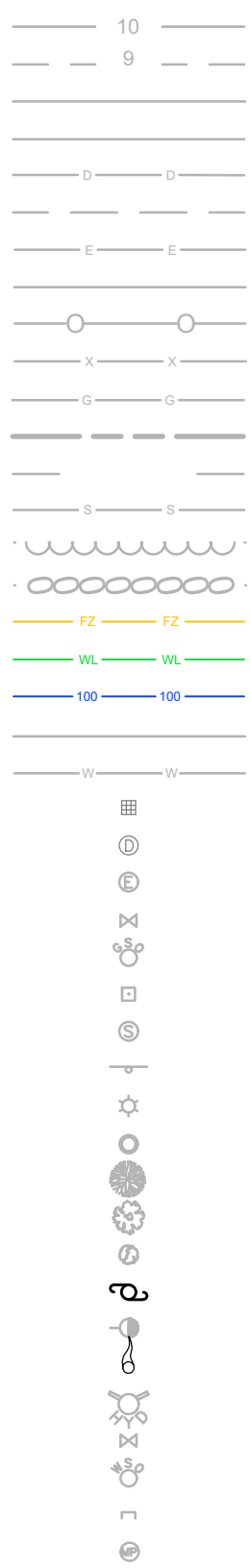
SOIL EROSION AND SEDIMENTATION

CONTROL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN COMPLIANCE WITH THE SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENT CONTROL DEVICES AS DIRECTED BY THE ENGINEER. CONSTRUCTION SHALL NOT COMMENCE UNTIL THESE MEASURES HAVE BEEN APPROVED BY THE ENGINEER.
3. THE CONTRACTOR SHALL STOCKPILE SUFFICIENT SOIL EROSION AND SEDIMENT CONTROL MATERIALS ON SITE TO REPAIR ANY DAMAGED SOIL EROSION AND SEDIMENT CONTROLS.
4. SILT SACKS SHALL BE FURNISHED, INSTALLED, AND MAINTAINED IN ALL CATCH BASINS WITHIN THE PROJECT AREA AND WHERE CONSTRUCTION SEDIMENT MAY FLOW TO OUTSIDE THE PROJECT AREA. DEBRIS COLLECTED IN SILT SACKS SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE ON A WEEKLY BASIS THROUGHOUT THE PROJECT DURATION. UPON COMPLETION OF THE PROJECT AND AS DIRECTED BY THE ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND LEGALLY DISPOSING OF THE SILT SACKS AND DEBRIS OFF-SITE, AND REMOVAL OF CONSTRUCTION DEBRIS WITHIN THE DRAINAGE SYSTEM.

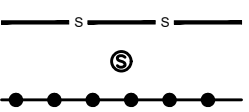
LEGEND

EXISTING



- BUILDINGS
- CONTOURS - MAJOR
- CONTOURS - MINOR
- CURB - BOTTOM
- CURB - TOP
- DRAINAGE
- ELECTRIC OVERHEAD WIRES
- ELECTRIC UNDERGROUND
- EDGE OF PAVEMENT
- FENCES - CHAIN LINK OR METAL
- FENCES - OTHER
- GAS UNDERGROUND
- PROPERTY LINES
- PAVEMENT MARKINGS
- SEWER UNDERGROUND
- VEGETATION
- STONE WALL
- WETLANDS - FLOOD ZONE
- WETLANDS, PONDS, RIVERS
- WETLANDS 100-FOOT BUFFER
- WATER BODY
- WATER SYSTEMS - UNDERGROUND
- CATCH BASIN
- DRAINAGE MANHOLE
- ELECTRIC MANHOLE
- GAS VALVE
- GAS SHUTOFF
- BOUND
- SEWER MANHOLE
- SIGN
- LIGHT POST
- FLAG POLE
- CONIFEROUS TREE
- DECIDUOUS TREE
- SHRUB
- UTILITY POLE
- UTILITY POLE GUY WIRE
- WETLANDS, PONDS, RIVERS FLAG
- HYDRANT
- WATER GATE VALVE
- WATER SHUTOFF
- WATER LINE CAP
- METER PIT

PROPOSED



SEWER UNDERGROUND
SEWER MANHOLE
FILTER SOCK





ENVIRONMENTAL
**PARTNERS**



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	FEBRUARY 2020
Job No.	457-1901
Designed by	FJB
Drawn by	FJB
Checked by	ZFK
Approved by	PCM

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

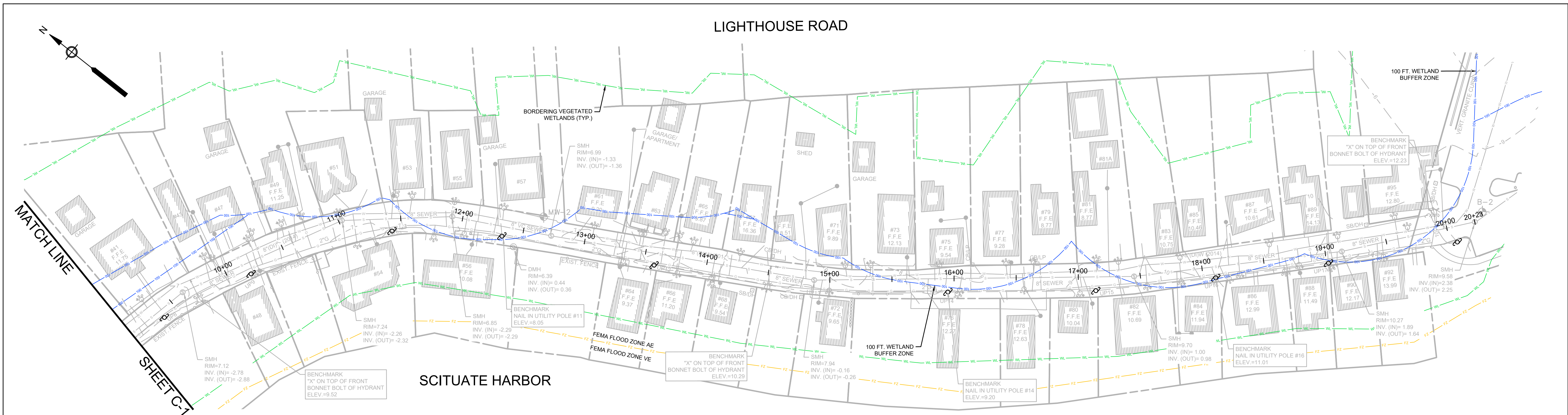
CEDAR POINT GRAVITY SEWER REPLACEMENT
TOWN OF SCITUATE, MA

EXISTING CONDITIONS PLAN
LIGHTHOUSE ROAD STA 0+00 TO STA 9+08

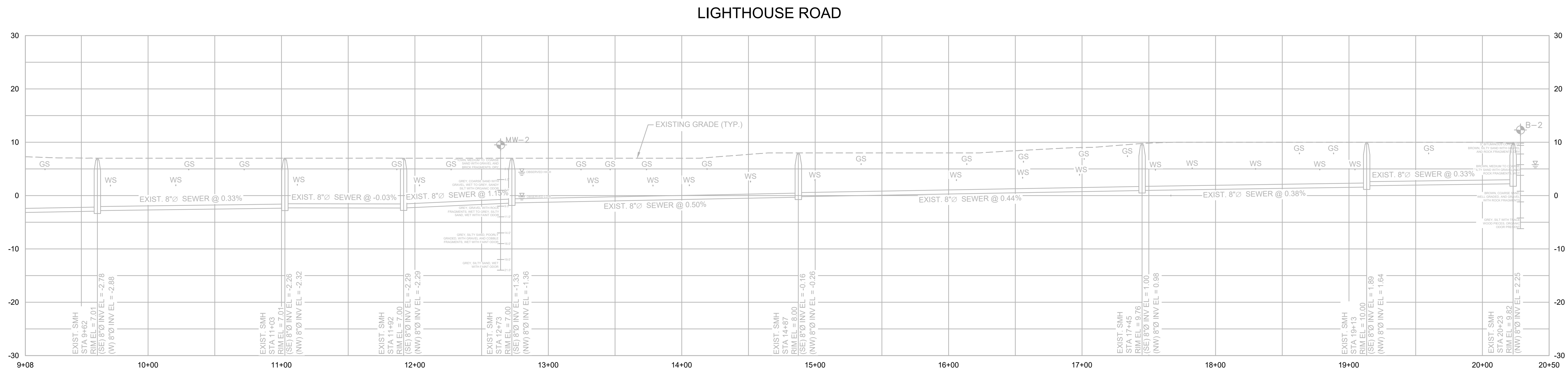
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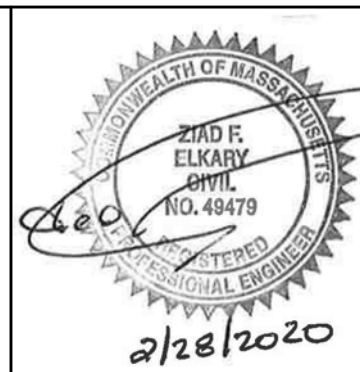
C-1

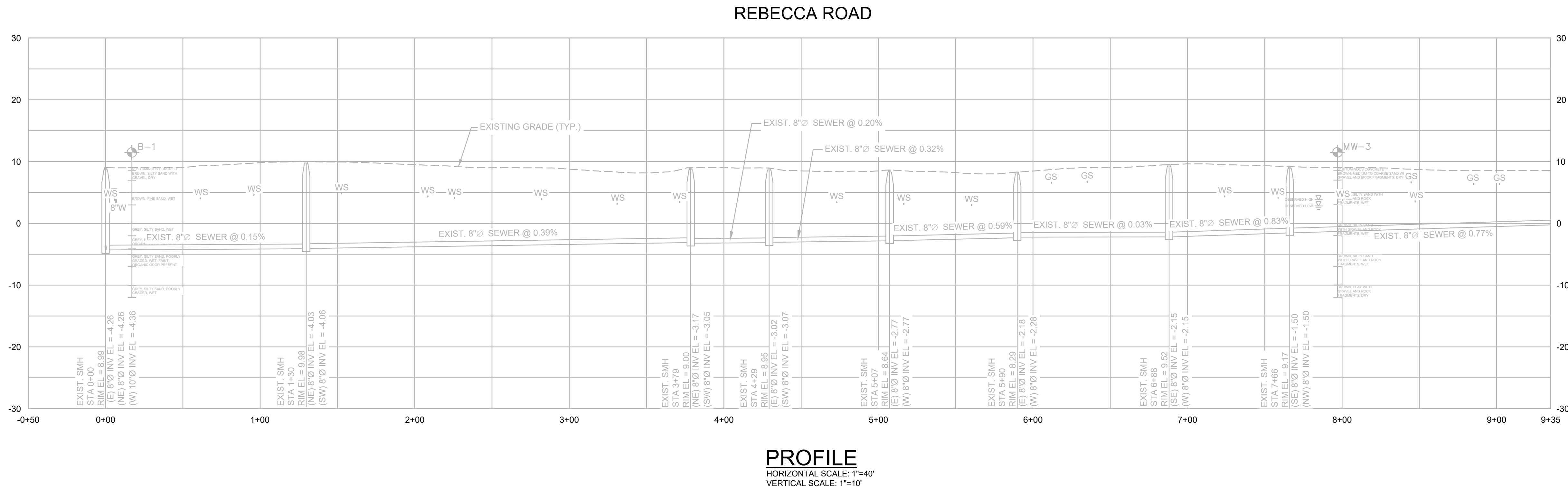


PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'

			<table><tr><td>MARK</td><td>DATE</td><td>DESCRIPTION</td></tr><tr><td> </td><td> </td><td> </td></tr></table>	MARK	DATE	DESCRIPTION				<table><tr><td>Scale</td><td>AS NOTED</td></tr><tr><td>Date</td><td>FEBRUARY 2020</td></tr><tr><td>Job No.</td><td>457-1901</td></tr><tr><td>Designed by</td><td>FJB</td></tr><tr><td>Drawn by</td><td>FJB</td></tr><tr><td>Checked by</td><td>ZFK</td></tr><tr><td>Approved by</td><td>PCM</td></tr></table>	Scale	AS NOTED	Date	FEBRUARY 2020	Job No.	457-1901	Designed by	FJB	Drawn by	FJB	Checked by	ZFK	Approved by	PCM	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	CEDAR POINT GRAVITY SEWER REPLACEMENT TOWN OF SCITUATE, MA	FOR PERMITTING Sheet No.
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EXISTING CONDITIONS PLAN LIGHTHOUSE ROAD STA 9+08 TO STA 20+23	C-2																										

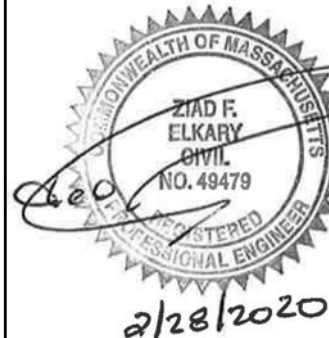




ENVIRONMENTAL

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PARTNERS



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Job No.	457-1901
Designed by	FJB
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CEDAR POINT GRAVITY SEWER REPLACEMENT
TOWN OF SCITUATE, MA

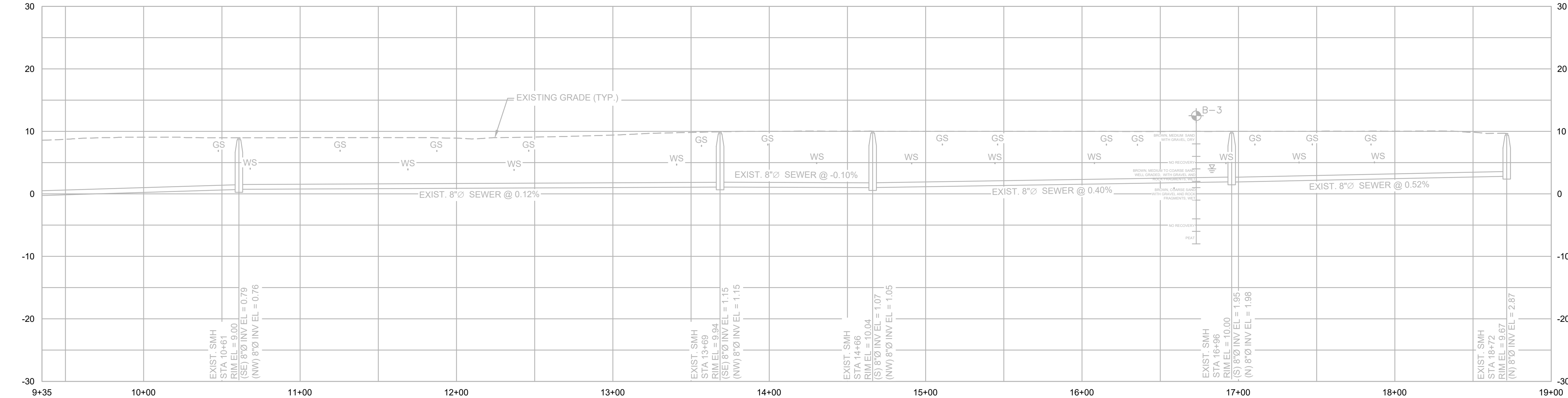
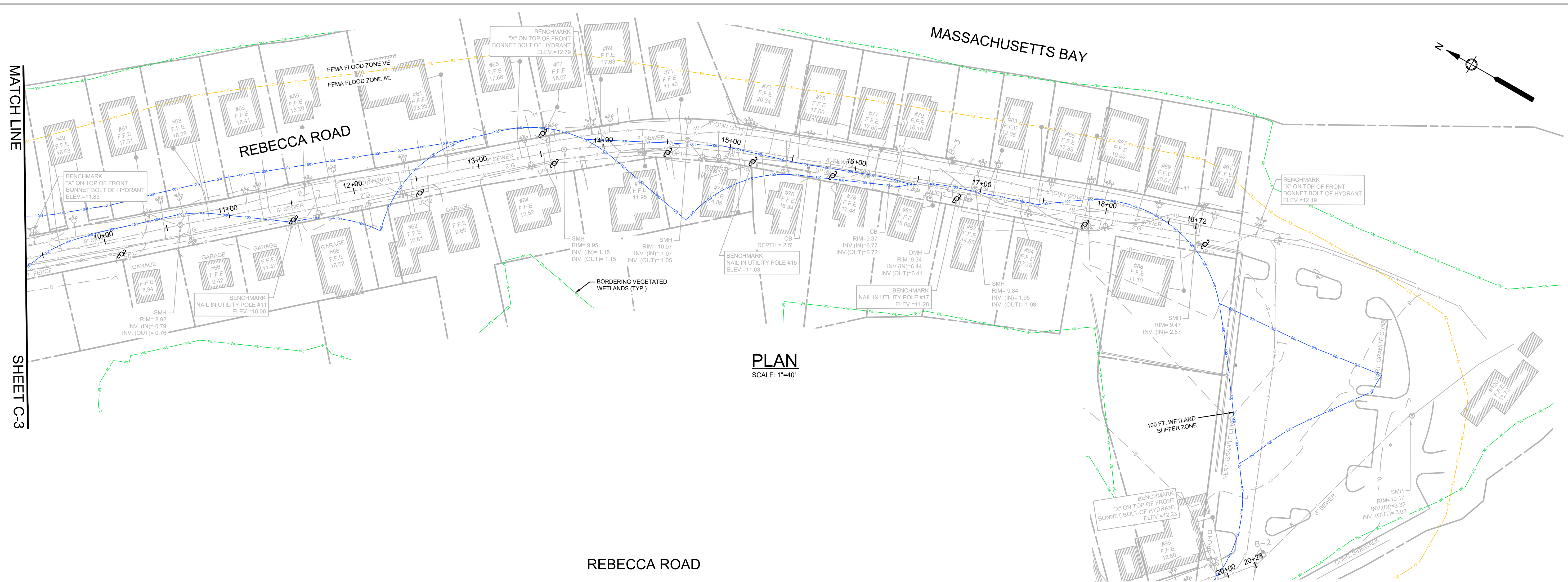
EXISTING CONDITIONS PLAN
REBECCA ROAD STA 0+00 TO STA 9+35

FOR PERMITTING

Sheet No.

C-3

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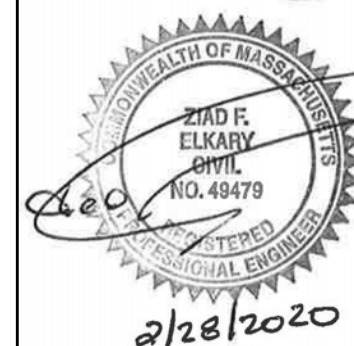


PROFILE

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



ENVIRONMENTAL
 **PARTNERS**



			Scale	AS NOTED
			Date	FEBRUARY 2020
			Job No.	457-1901
			Designed by	FJB
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FULL SCALE ON A 22" X
34" DRAWING

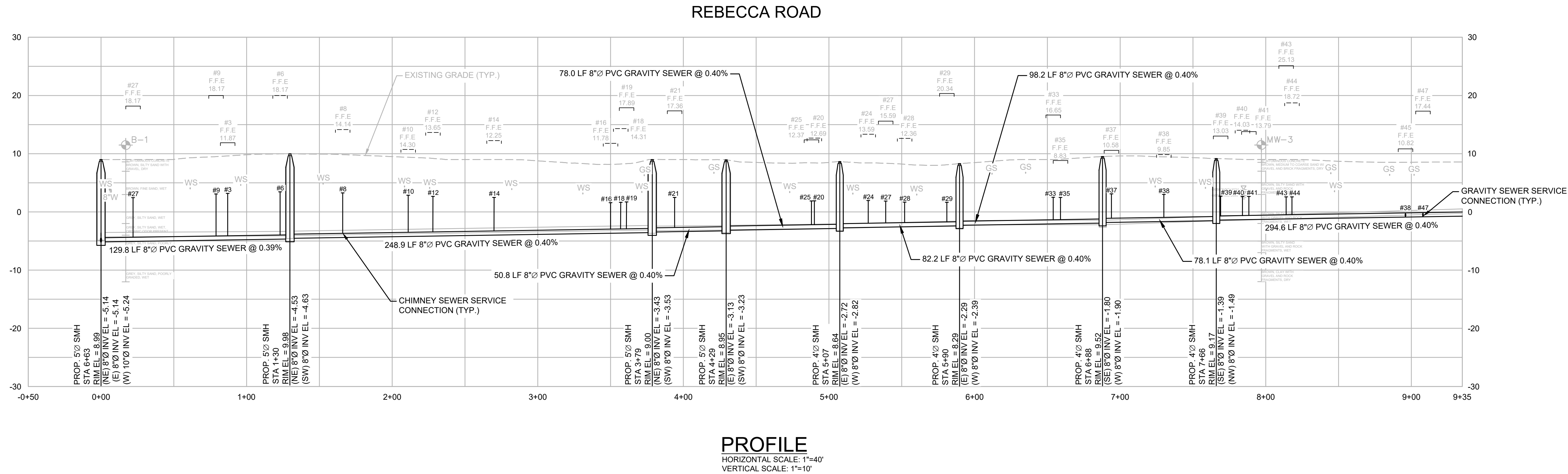
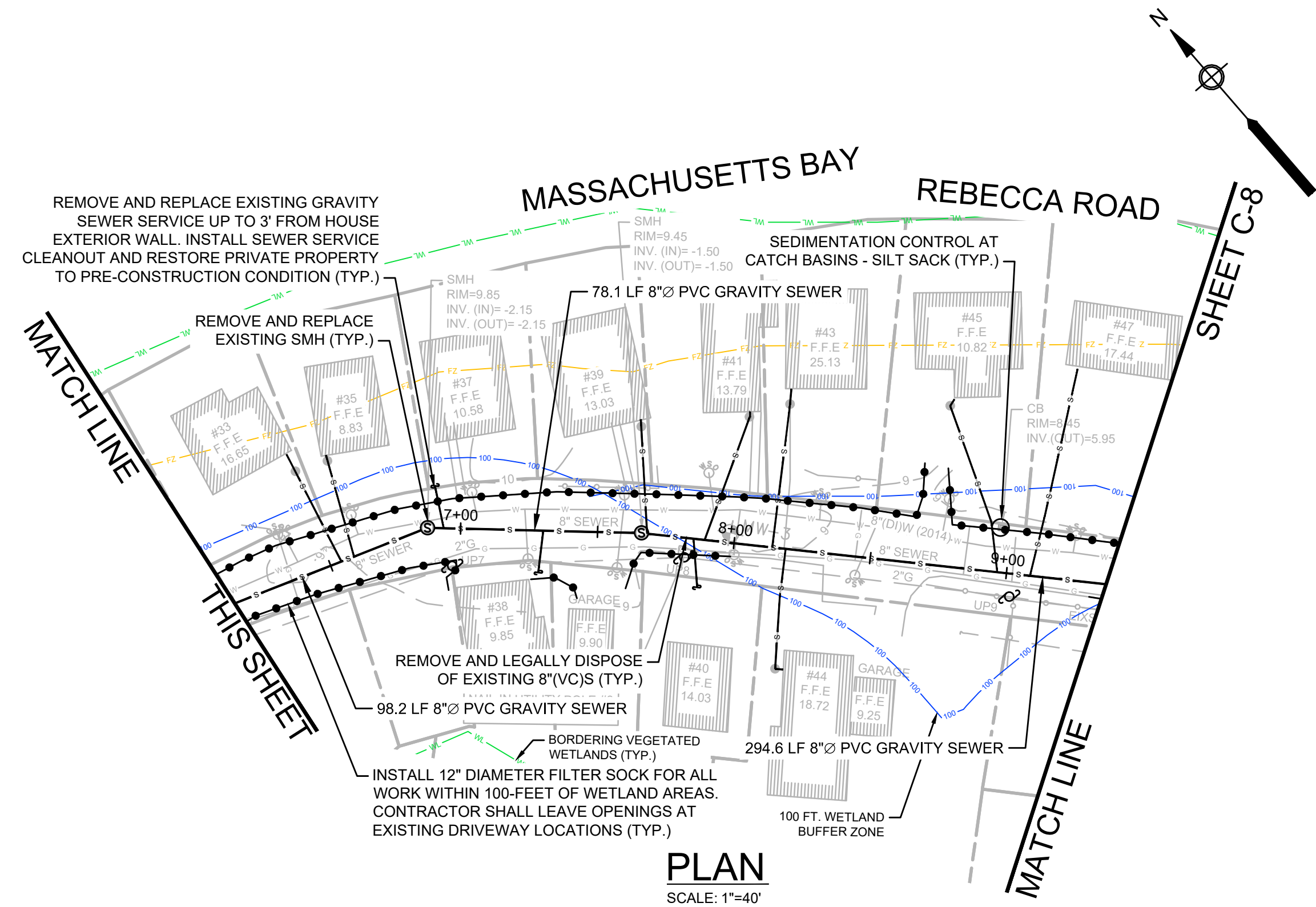
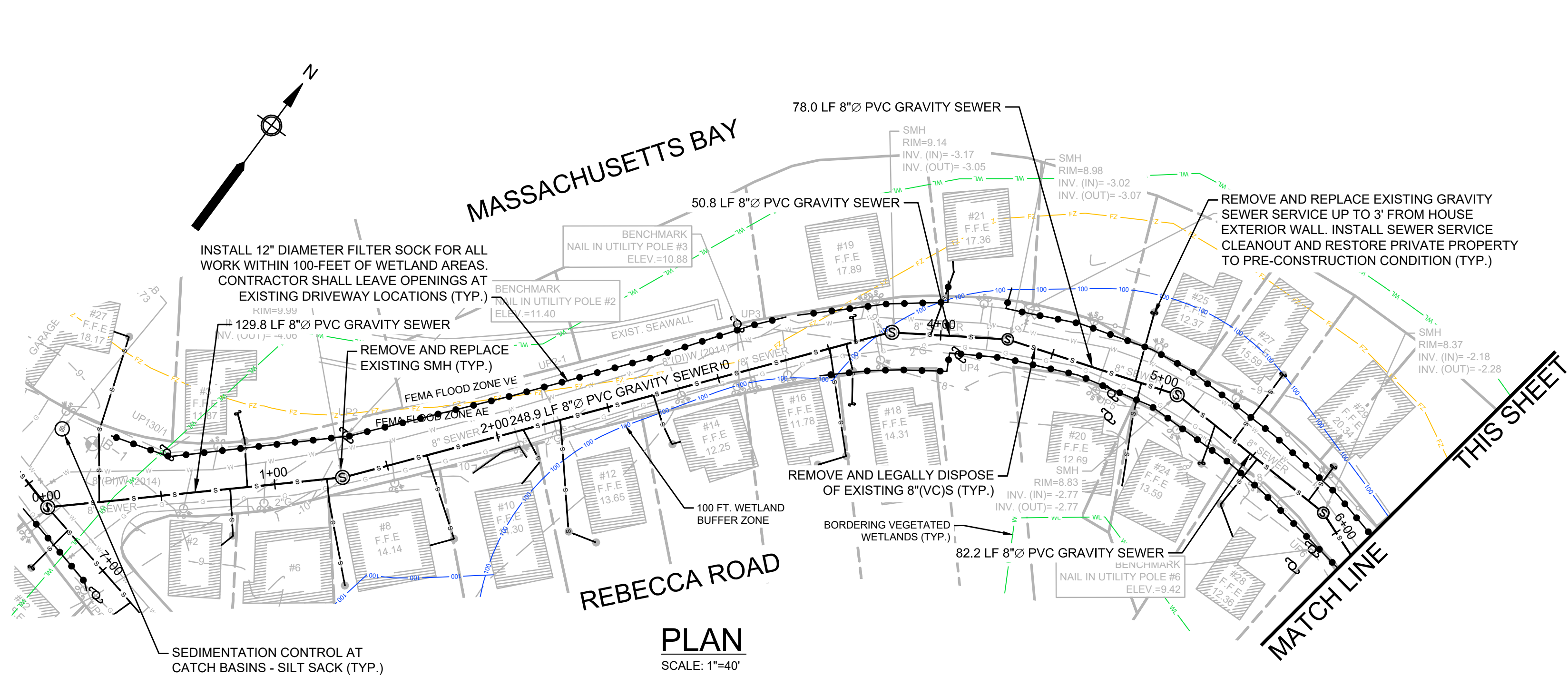
CEDAR POINT GRAVITY SEWER REPLACEMENT
TOWN OF SCITUATE, MA

EXISTING CONDITIONS PLAN
REBECCA ROAD STA 9+35 TO STA 18+72

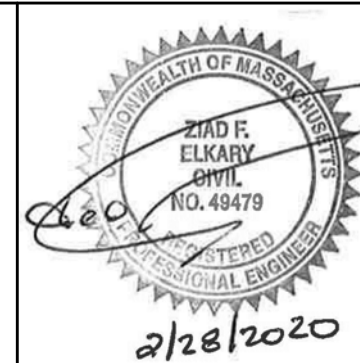
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C-4



ENVIRONMENTAL
PARTNERS



MARK	DATE	DESCRIPTION

PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'

Scale	AS NOTED
Date	FEBRUARY 2020
Job No.	457-1901
Designed by	FJB
Drawn by	FJB
Checked by	PCM
Approved by	ZFK

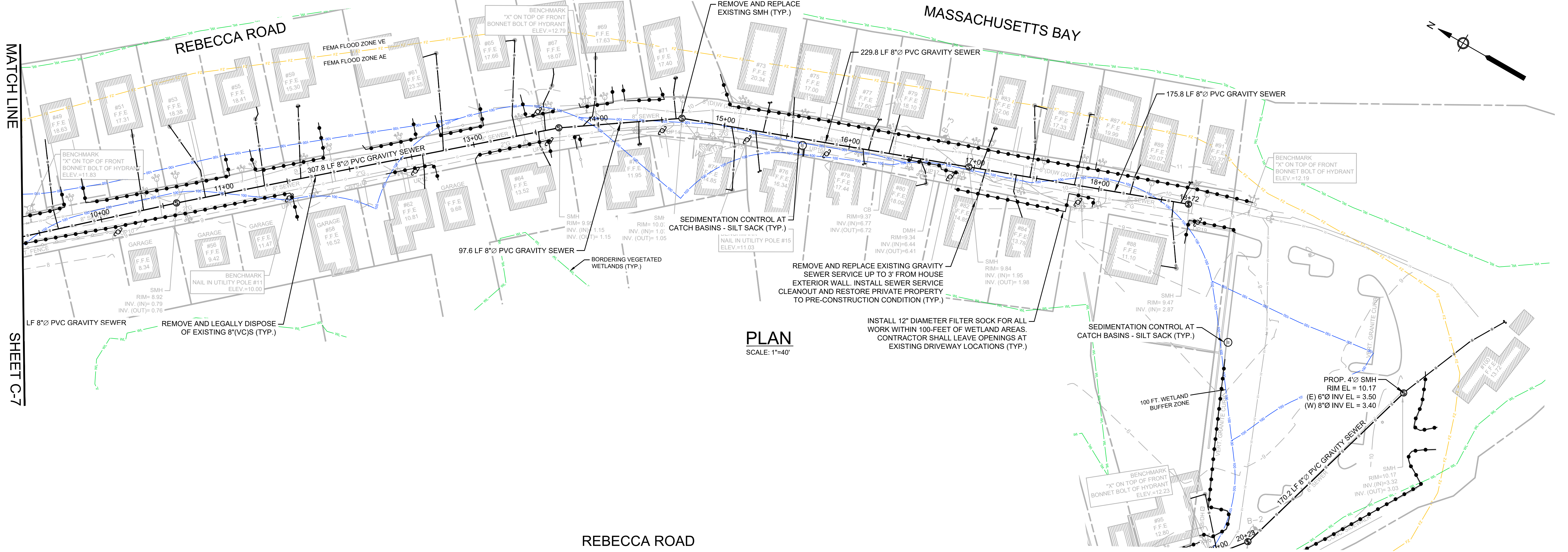
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34" DRAWING

CEDAR POINT GRAVITY SEWER REPLACEMENT
TOWN OF SCITUATE, MA

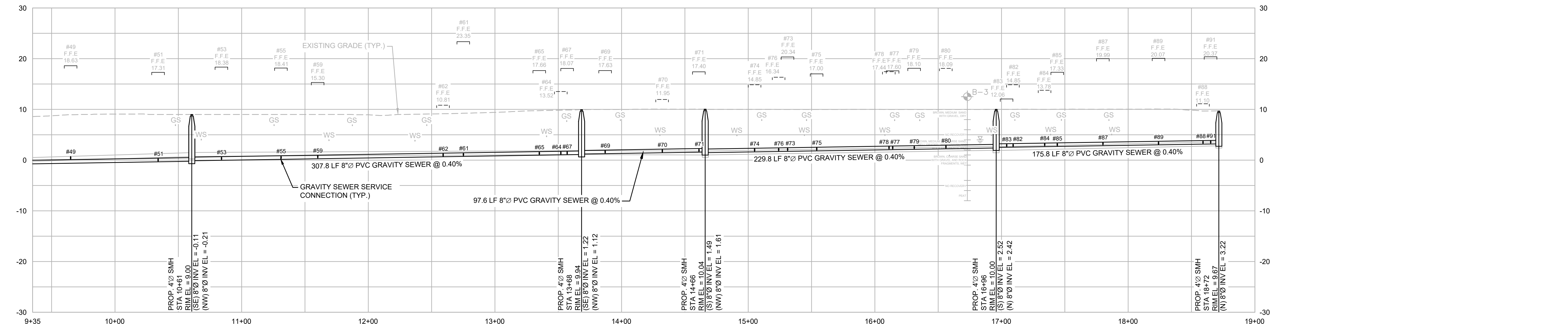
PROPOSED CONDITIONS PLAN
REBECCA ROAD STA 0+00 TO STA 9+35

FOR PERMITTING
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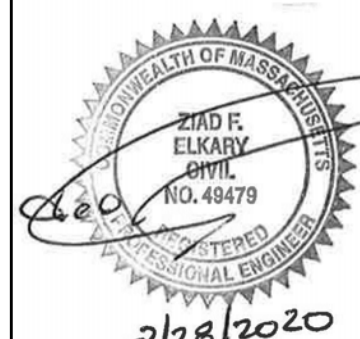
C-7



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



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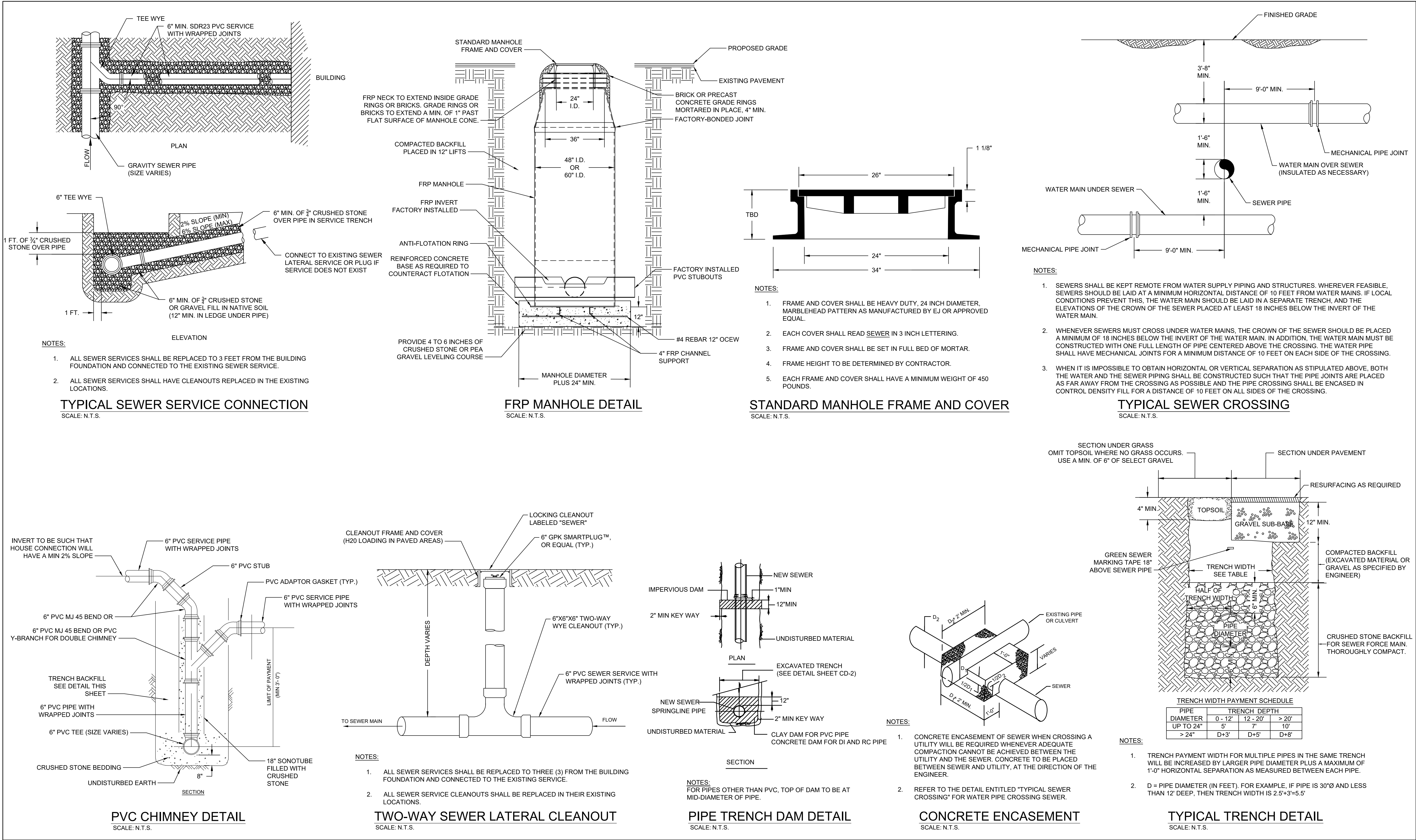
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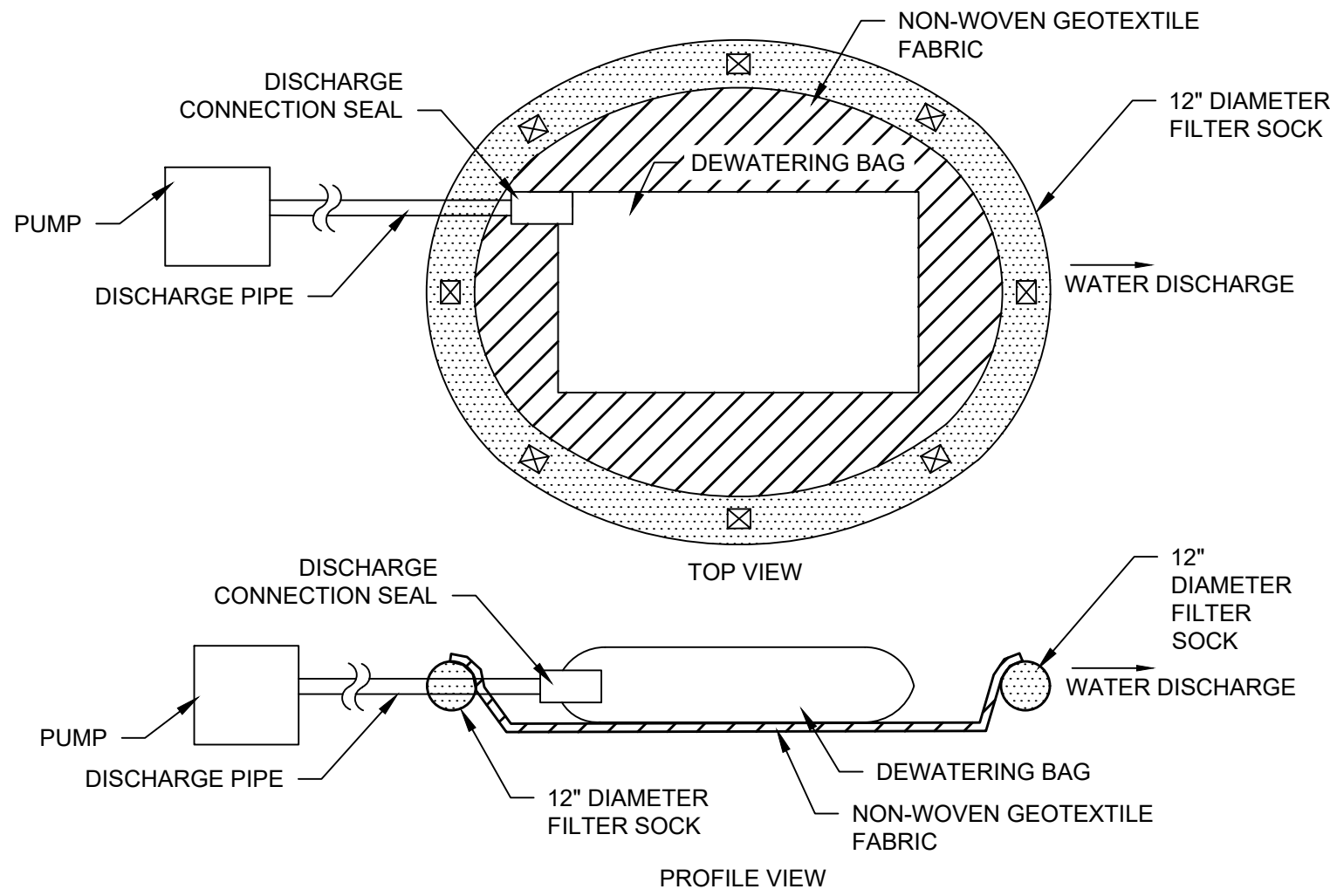
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CEDAR POINT GRAVITY SEWER REPLACEMENT
TOWN OF SCITUATE, MA

PROPOSED CONDITIONS PLAN
REBECCA ROAD STA 9+35 TO STA 18+72

FOR PERMITTING
Sheet No.
C-8



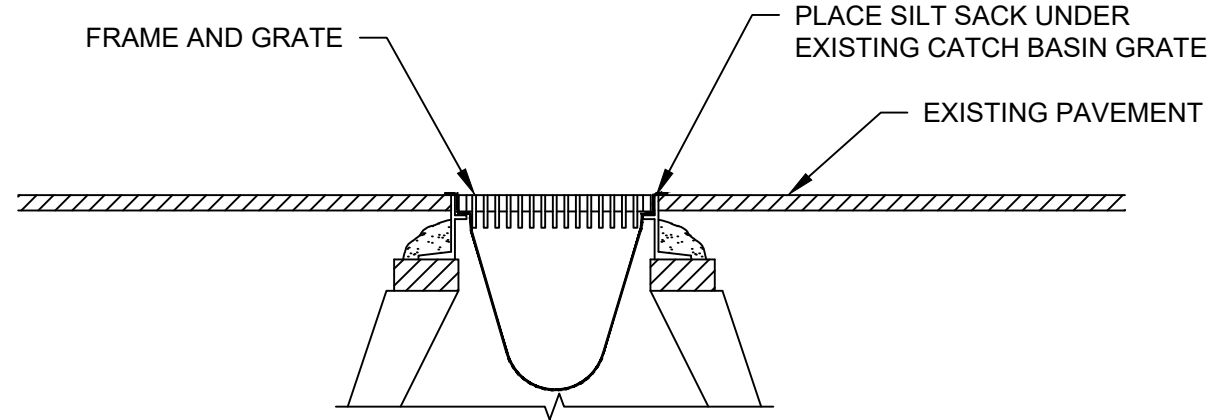


NOTES:

1. DEWATERING BAG SIZE AND QUANTITY SHALL BE AS NEEDED TO ADEQUATELY FILTER ALL PUMP EFFLUENT FROM DEWATERING ACTIVITIES. CONTRACTOR SHALL PROVIDE A REDUNDANT BAG ON SITE AT ALL TIMES.
2. EACH BAG SHALL HANDLE A 2", 3", OR 4" DISCHARGE HOSE.
3. DISCHARGE HOSES CAN BE PLACED ALONG ANY EDGE BY MAKING A SMALL INCISION INTO THE FABRIC, INSERTING THE HOSE, AND THEN CLAMPING THE FABRIC TO THE HOSE VIA WIRE, TIES, CLAMP, ROPE OR SIMILAR TO CREATE A GOOD SEAL.
4. CONTRACTOR SHALL AVOID DISCHARGING MULTIPLE PIPES INTO ONE BAG.

DEWATERING BAGS

SCALE: N.T.S.

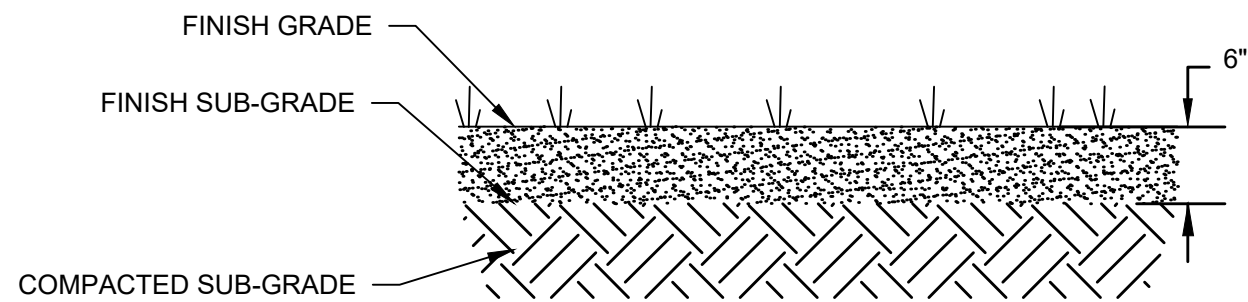


NOTES:

1. SILT SACKS SHALL BE INSPECTED WEEKLY AND AFTER A STORM. ACCUMULATED SILT REMOVED TO ALLOW CATCH BASIN TO FUNCTION PROPERLY.
2. SILT SACK HIGH FLOW MODEL AS MANUFACTURED BY ACF ENVIRONMENTAL (800-448-3636) OR APPROVED EQUAL.

SEDIMENTATION CONTROL AT CATCH BASINS (SILT SACKS)

SCALE: N.T.S.

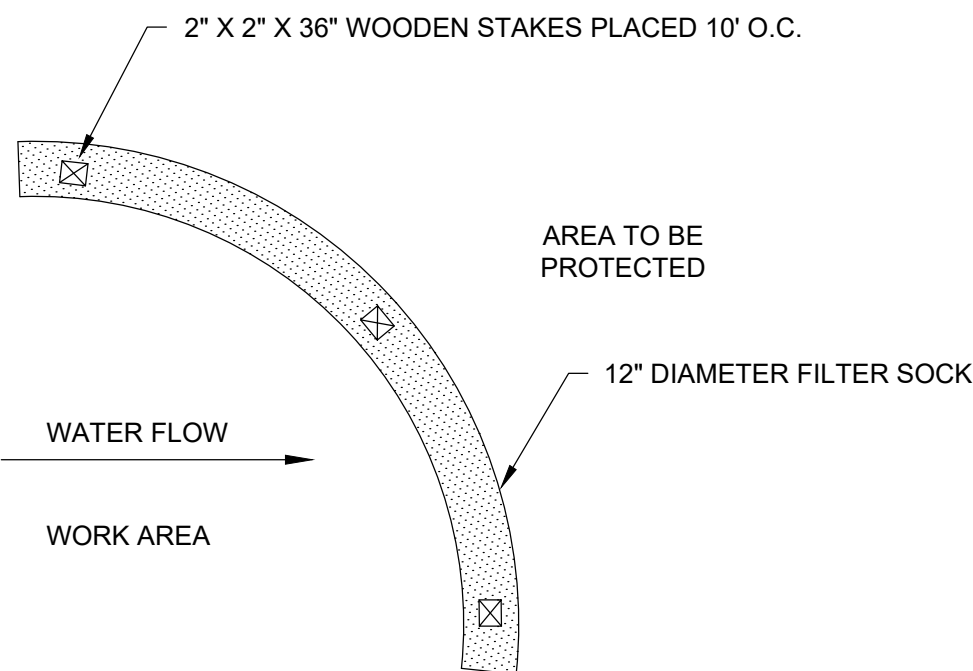
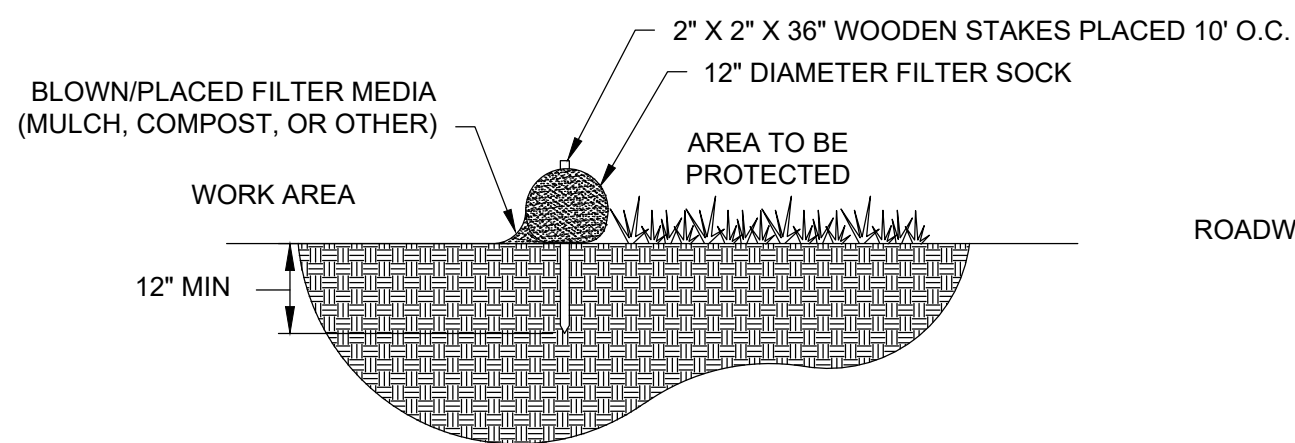


NOTES:

1. SEED MIX SHALL BE NEW ENGLAND CONSERVATION SEED MIX, FREE OF FERTILIZERS.
2. LOAM SHALL BE NATIVE TO LOCAL AREA AND OF LOW NITROGEN CONTENT.
3. INSTALL CURLEX CL EROSION CONTROL BLANKET AS MANUFACTURED BY AMERICAN EXCELSIOR COMPANY (OR APPROVED EQUAL) ON ALL LOAM AND SEEDED SLOPES 3:1 OR STEEPER.

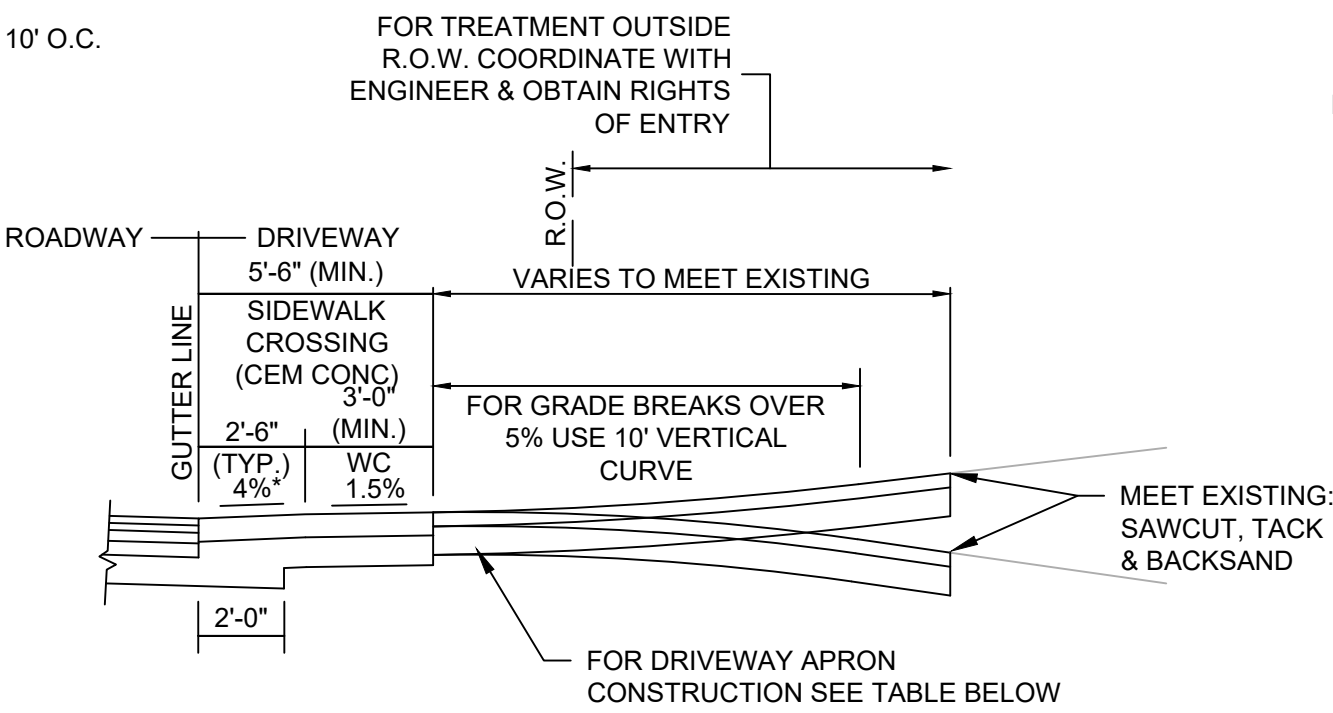
LOAM AND SEED (DISTURBED AREAS)

SCALE: N.T.S.



12" DIAMETER FILTER SOCK

SCALE: N.T.S.



DRIVEWAY APRON CONSTRUCTION	
SURFACE:	4" HOT MIX ASPHALT (2" TOP COURSE MATERIAL OVER 2" BINDER COURSE MATERIAL)
SUBBASE:	8" GRAVEL BORROW (TYPE "B")

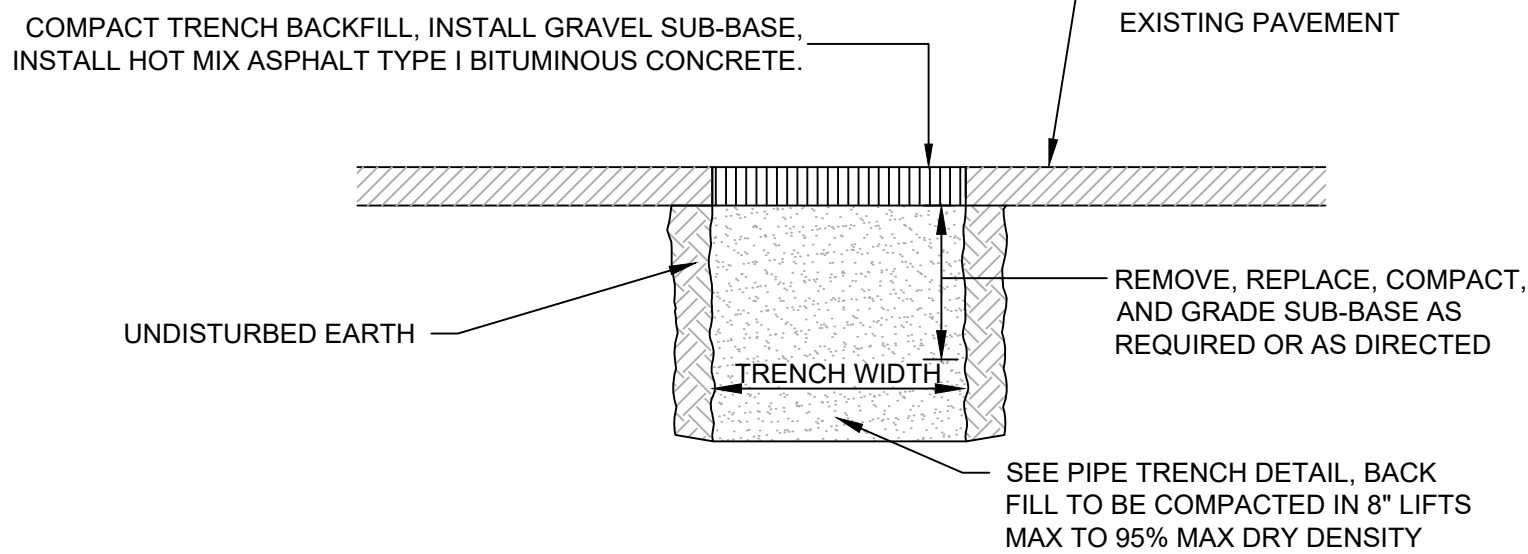
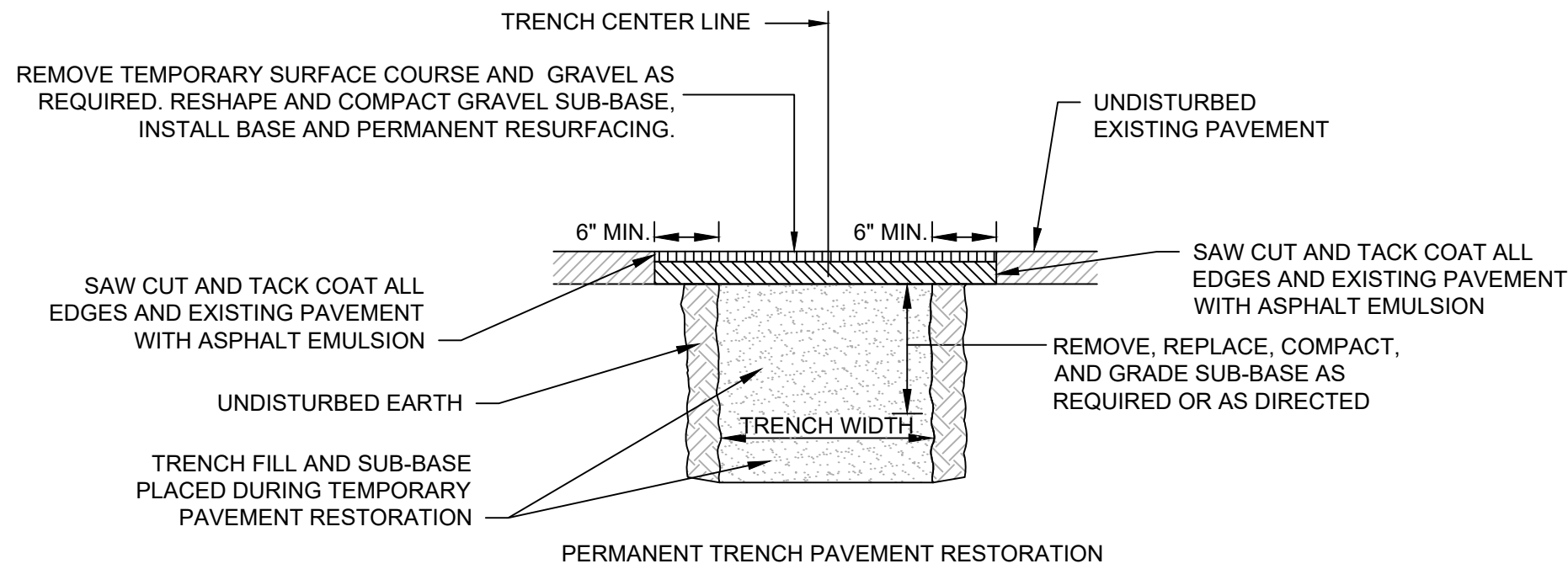
WC = WHEELCHAIR (PATHWAY)
R.O.W. = RIGHT OF WAY

* - DRIVEWAY APRON SLOPE TOWARDS ROADWAY MAY VARY TO MEET FIELD CONDITIONS

DRIVEWAY APRONS SHALL BE CONSTRUCTED OF HOT MIX ASPHALT OR CEMENT CONCRETE, UNLESS PRIOR WRITTEN APPROVAL IS GRANTED BY DPW.

DRIVEWAY APRON DETAIL

SCALE: N.T.S.

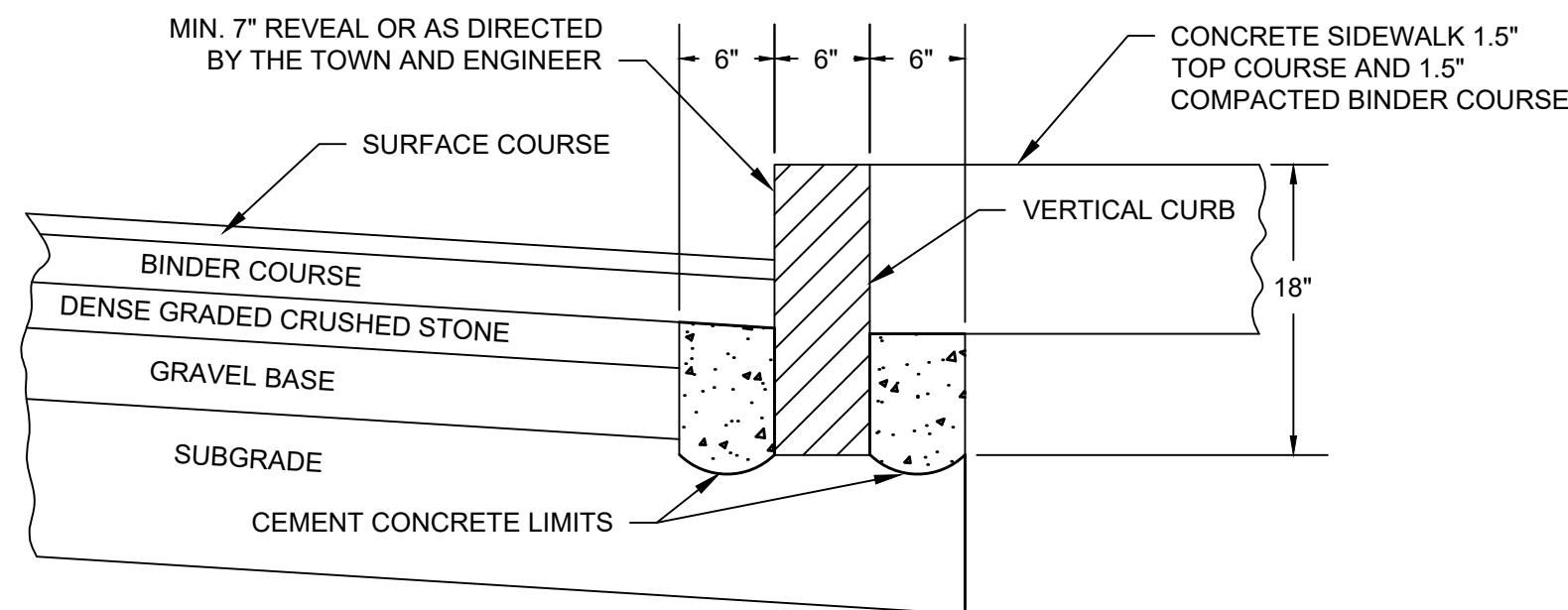


NOTES:

1. PERMANENT TRENCH PAVEMENT RESTORATION - ALL SAW CUT EDGES SHALL BE CLEAN EDGES.

PAVEMENT DETAILS FOR TRENCH RESTORATION

SCALE: N.T.S.

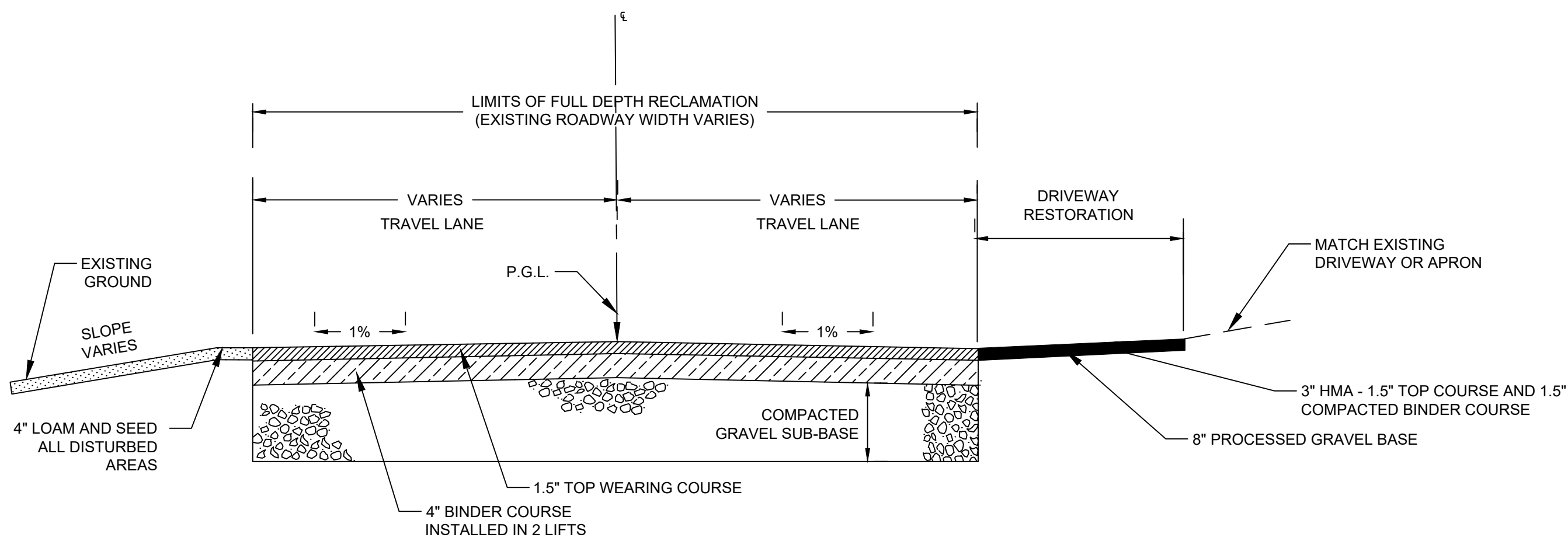


NOTES:

1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5%.
2. MAINTAIN A MINIMUM OF 3 FEET CLEAR AT ANY PERMANENT OBSTACLE IN ACCESS ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
3. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5'X5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.

CONCRETE SIDEWALK AND VERTICAL GRANITE CURB

SCALE: N.T.S.



FULL DEPTH RECLAMATION TYPICAL PAVEMENT PROFILE

SCALE: N.T.S.



ENVIRONMENTAL
PARTNERS



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	FEBRUARY 2020
Job No.	457-1901
Designed by	FJB
Drawn by	FJB
Checked by	ZFK
Approved by	PCM

THIS LINE IS ONE INCH
LONG WHEN PLOTTED AT
FULL SCALE ON A 22" X
34" DRAWING

CEDAR POINT GRAVITY SEWER REPLACEMENT
TOWN OF SCITUATE, MA

CIVIL DETAILS II

FOR PERMITTING

Sheet No.

CD-2