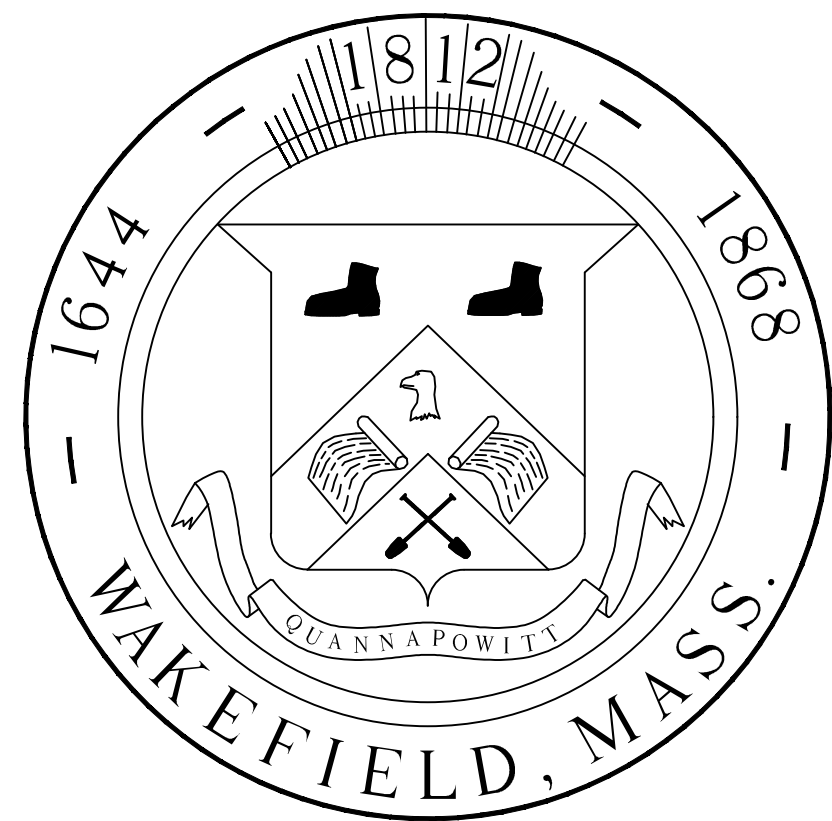




TOWN OF WAKEFIELD, MASSACHUSETTS

DEPARTMENT OF PUBLIC WORKS

ENGINEERING DIVISION

STEPHEN P. MAIO
TOWN ADMINISTRATOR

JOSEPH P. CONWAY
DIRECTOR OF PUBLIC WORKS

WILLIAM J. RENAULT, P.E.
TOWN ENGINEER

COMPLETE STREETS

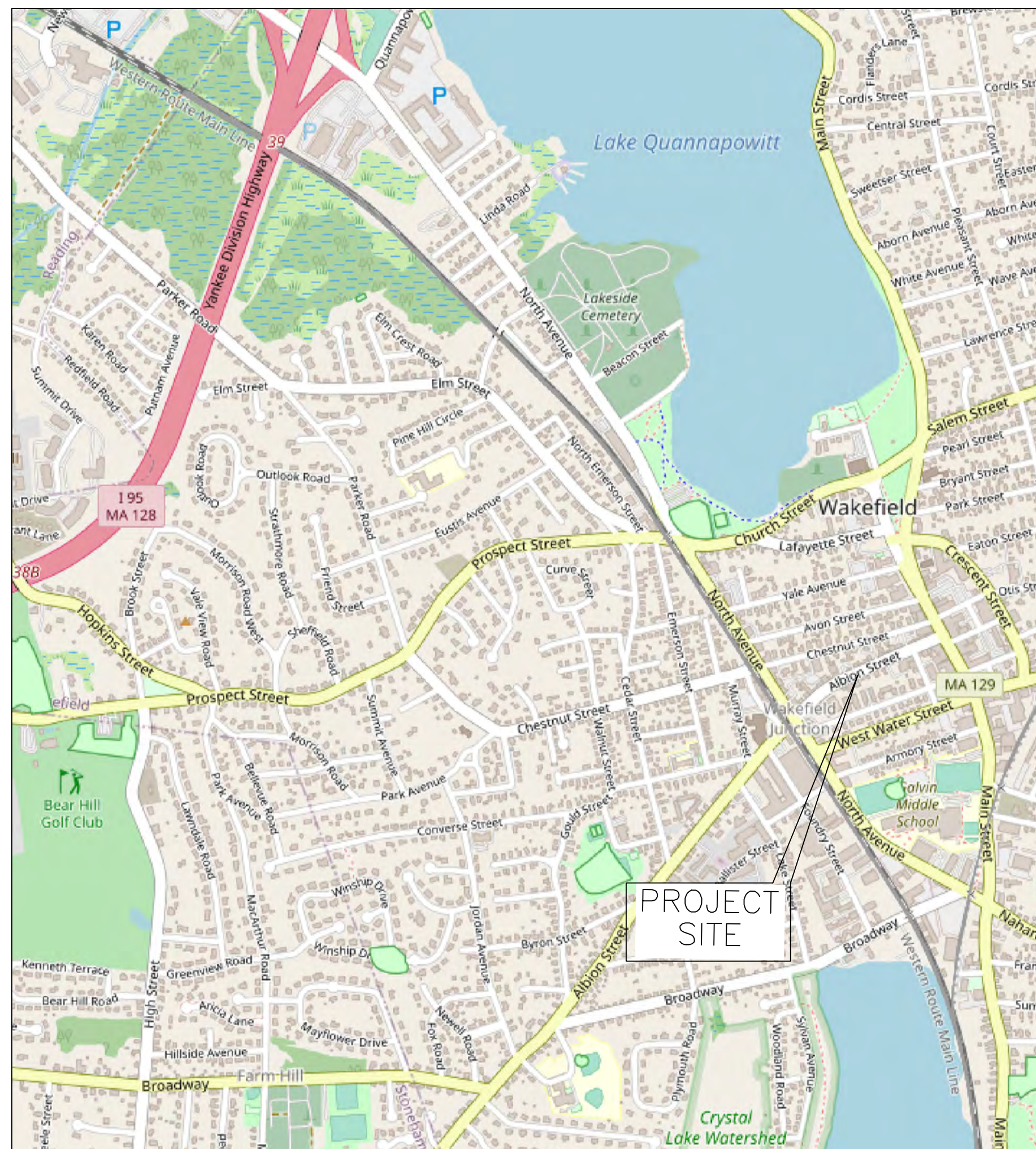
ALBION STREET

NOVEMBER 2020

WILLIAM J. LEE MEMORIAL TOWN HALL
ONE LAFAYETTE STREET
WAKEFIELD, MA 01880
(781) 246-6300 tele
(781) 246-6266 fax

DRAWING INDEX

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LOCUS PLAN
NOT TO SCALE

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 2020, THE 2020 SUPPLEMENTAL SPECIFICATIONS, THE STANDARD SPECIAL PROVISIONS, THE 2017 MASS DOT CONSTRUCTION STANDARD DETAILS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, AND THE CONTRACT SPECIAL PROVISIONS.
2. ALL LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES ON THE ATTACHED PLANS WERE OBTAINED FROM AVAILABLE UTILITY RECORDS. THE SIZE, TYPE, AND LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING ALL UTILITIES ON SITE PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING UTILITIES SHOWN ON THE PLANS AND SHALL BE RESPONSIBLE FOR LOCATING ANY ADDITIONAL UTILITIES NOT SHOWN. THE CONTRACTOR IS REQUIRED TO CONTACT DIG-SAFE (888-344-7233) 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINE LOCATIONS AS NECESSARY. IF NECESSARY, THE CONTRACTOR SHALL HIRE A PRIVATE MARKING COMPANY TO LOCATE ON-SITE UTILITIES AT NO ADDITIONAL COST TO THE OWNER. THE TOWN OF WAKEFIELD DOES NOT WARRANT OR GUARANTEE THE LOCATION OF ANY UTILITIES, HEREON.
3. IN CASE OF DISCREPANCY BETWEEN PLAN SET NOTES AND SPECIFICATIONS THE SPECIFICATIONS SHALL GOVERN.
4. LOCATION OF PROPOSED UTILITIES MAY BE ALTERED IN THE FIELD BY THE ENGINEER TO SUIT FIELD CONDITIONS.
5. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A CONSTRUCTION SCHEDULE DELINEATING THE SEQUENCE OF WORK AND ESTIMATED TIME OF COMPLETION OF EACH SEGMENT OF WORK, PRIOR TO THE COMMENCEMENT OF WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS, WARNING FLASHERS, ETC., AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON- WORKERS ALIKE. THE CONTRACTOR'S ATTENTION IS DIRECTED TO OSHA AND MA DLS REQUIREMENTS.
8. THE CONTRACTOR SHALL PLAN AND PERFORM TEST PIT EXCAVATION WELL IN ADVANCE OF COMMENCING CONSTRUCTION AND ORDERING MATERIALS TO ALLOW TIME TO REVIEW ACTUAL CONDITIONS ENCOUNTERED. TEST PITS NOT SPECIFICALLY IDENTIFIED SHALL BE EXCAVATED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER.
9. ACCESS TO ALL EXISTING BUILDINGS SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION BY THE CONTRACTOR.
10. DURING THE COURSE OF CONSTRUCTION ANY DAMAGE TO FENCES, GUARD RAILS, PATHS, DRIVEWAYS, STAIRS, AND VEGETATION SHALL BE REPAIRED OR REPLACED AND RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE TOWN.
11. THE CONTRACTOR SHALL RESET ALL WATER, SEWER, AND DRAINAGE FRAMES, GRATES, AND BOXES TO THE PROPOSED FINISH SURFACE GRADE.
12. THE CONTRACTOR IS RESPONSIBLE FOR SETTING AND MAINTAINING ALL GRADES AND GRADE STAKES. CPW MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO PAVING IN ORDER TO ENSURE ADEQUATE TIME TO VERIFY THE GRADES AND ENSURE PROPER PITCH OF ROADWAYS AND DRIVEWAYS. ANY DISCREPANCIES OR DEVIATIONS FROM THE DESIGN PLANS MAY RESULT IN THE RE-GRADING OF SAID DEVIATIONS. THIS SHALL BE DONE AT NO ADDITIONAL EXPENSE TO THE TOWN, REGARDLESS OF THE SIZE OF THE AREA, TIME NEEDED, OR RE-MOBILIZATION EFFORTS.
13. PLANS AND TOPOGRAPHIC INFORMATION ARE PREPARED FROM FIELD SURVEY PERFORMED BY VARIOUS SOURCES.
14. RIGHT OF WAY INFORMATION OBTAINED FROM PLANS RECORDED IN SOUTH MIDDLESEX REGISTRY OF DEEDS.
15. LOCATION OF UNDERGROUND UTILITIES OBTAINED FROM WAKEFIELD GIS AND ARE REFERENCE INFORMATION ONLY. "DIG-SAFE" SHALL BE UTILIZED AS SPECIFIED.

LEGEND:

	EXISTING DRAINAGE CATCH BASIN
	EXISTING DRAIN MANHOLE
	EXISTING SEWER MANHOLE
	PROPOSED SEWER MANHOLE
	PROPOSED DRAINAGE CATCH BASIN
	EXISTING UTILITY POLE
	EXISTING GUY WIRE
	EXISTING MAIL BOX
	EXISTING WATER GATE VALVE
	PROPOSED WATER GATE VALVE
	EXISTING HYDRANT
	PROPOSED HYDRANT ASSEMBLY
	EXISTING WATER SHUT OFF
	PROPOSED WATER SHUT OFF
	EXISTING GAS GATE VALVE
	EXISTING DRAIN LINE
	EXISTING SEWER LINE
	PROPOSED 8" PVC SEWER LINE
	EXISTING SEWER SERVICE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING ELECTRIC LINE
	EXISTING RIGHT OF WAY
	HEDGE LINE
	STONE WALL
	EXISTING GRANITE CURB
	EXISTING SLOPED VERTICAL GRANITE CURB
	EXISTING FENCE
	EXISTING 5' CONTOURS
	EXISTING 1' CONTOURS
	PROPOSED CONTOUR WITH ELEVATION
	EXISTING BOUND
	EXISTING GRADE
	EXISTING MAG NAIL
	EXISTING IRON ROD OR PIPE
	EXISTING PUBLIC LIGHT POST
	EXISTING PRIVATE LIGHT POST
	EXISTING ELECTRIC BOX
	EXISTING CATV BOX
	EXISTING BITUMINOUS CONCRETE SIDEWALK
	EXISTING CONCRETE SIDEWALK
	PROPOSED PLANTING AREA

EROSION AND SEDIMENTATION CONTROL PLAN

SEDIMENTATION CONTROL SYSTEM – THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF EROSION CONTROL FIBER ROLLS. THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED AND AS INDICATED ON THE PLANS. THE SYSTEM DESIGNED TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLANDS OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FOR THE UPSTREAM SIDE OF THE ROLL. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE SEDIMENTATION CONTROL SYSTEM IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE SYSTEM ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. ENVIRONMENTAL MONITORING REPORTS, AS REQUIRED BY THE TOWN'S STORMWATER REGULATIONS SHALL BE PROVIDED TO THE ENGINEERING DIVISION, REGARDING EROSION CONTROL INSPECTION AND MAINTENANCE.

EROSION CONTROL SILT SACKS SHALL BE PLACED IN EXISTING CATCH BASINS WHERE SEDIMENT MAY ENTER THE CATCH BASIN OR AS DIRECTED BY THE RESIDENT ENGINEER. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE SACKS. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. SILT SACKS ARE TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THE RE BAR NEEDED TO LIFT AND DUMP THE SACKS TO REMOVE SEDIMENT SHALL NOT BE LEFT IN THE ROADWAY UNATTENDED FOR ANY AMOUNT OF TIME.

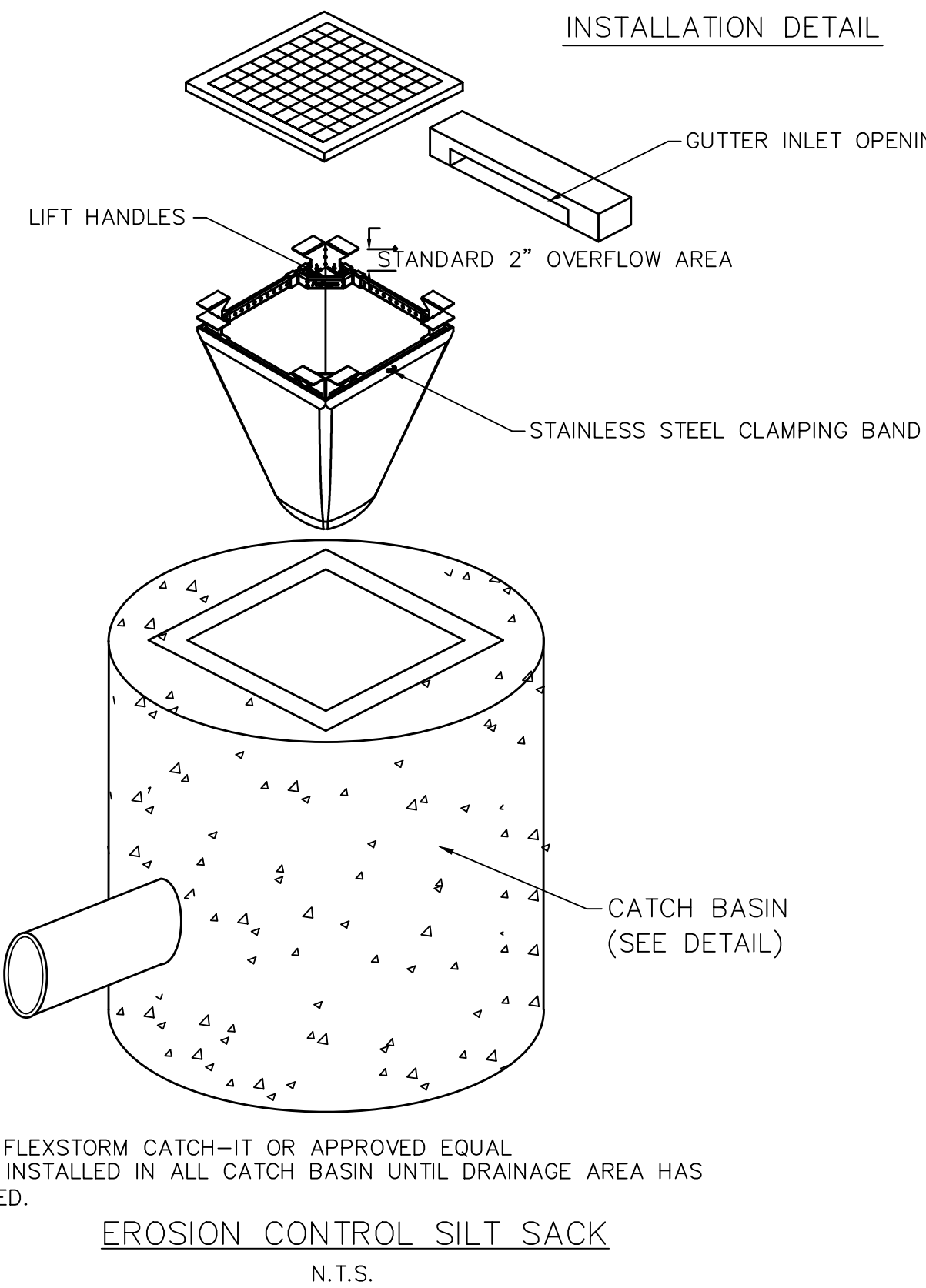
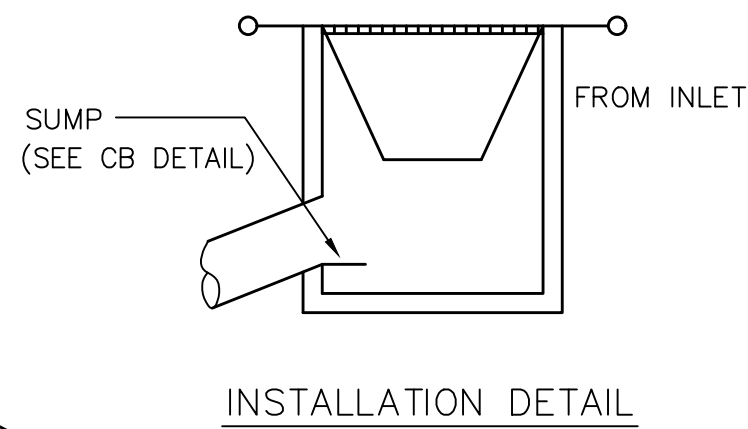
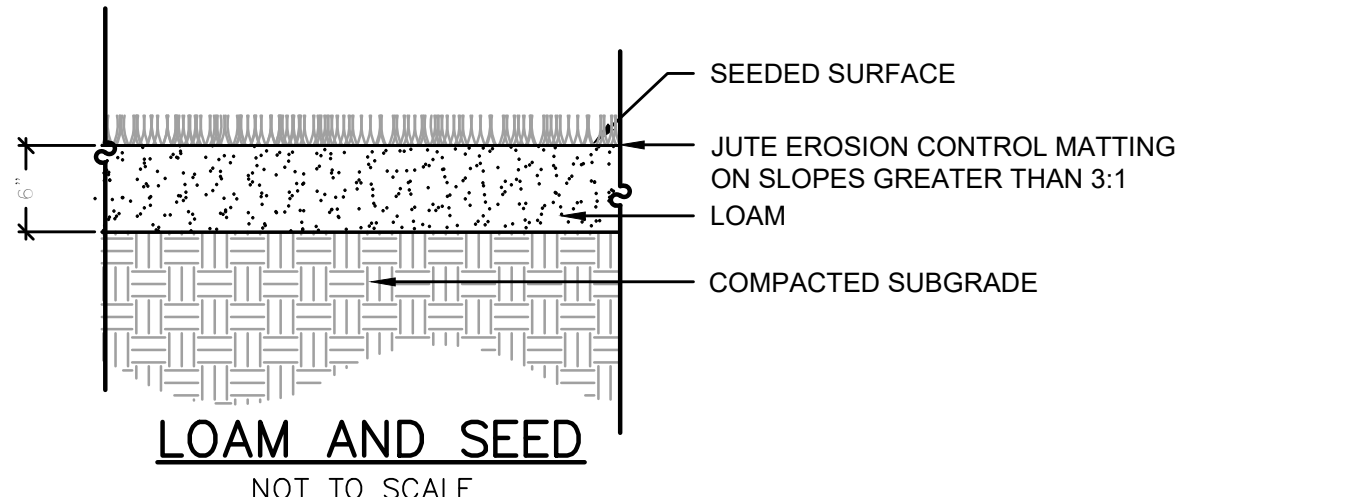
IN ALL AREAS, REMOVAL OF TREES, BUSHES, AND OTHER VEGETATION, AND DISTURBANCE TO THE SOIL, SHALL BE APPROVED BY THE RESIDENT ENGINEER OR ITS DESIGNEE.

EROSION AND SEDIMENT CONTROL MAINTENANCE PROCEDURES

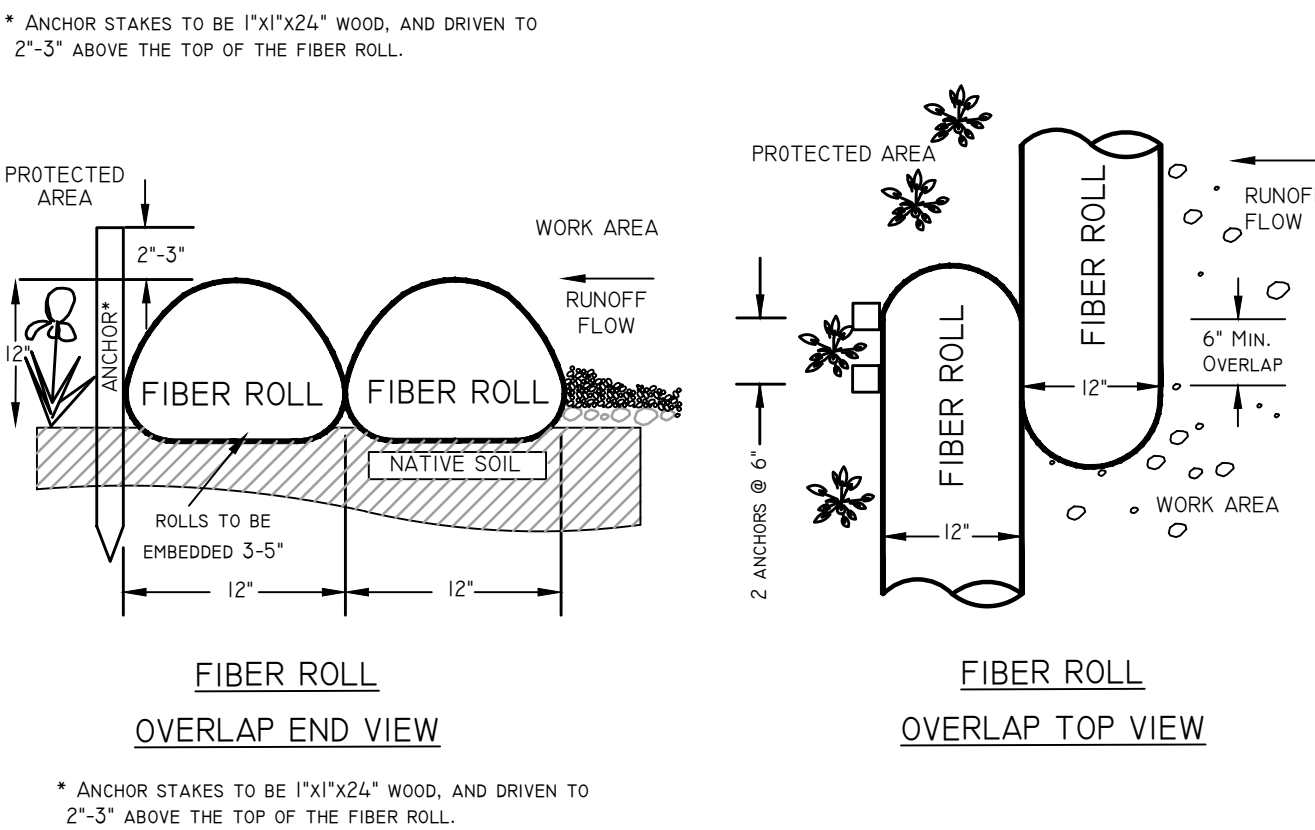
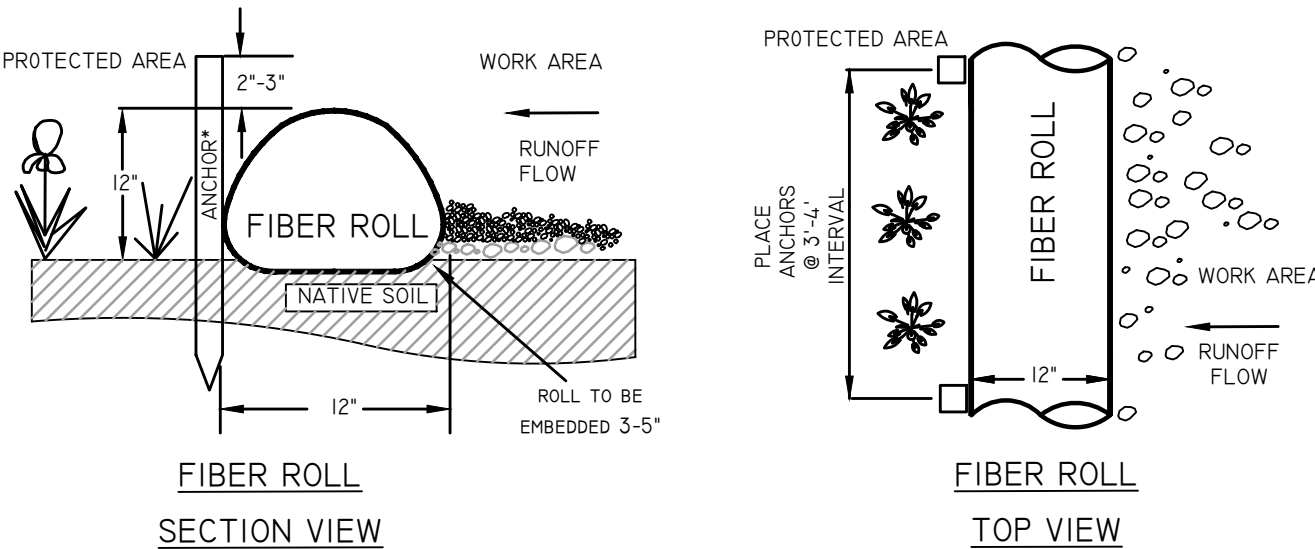
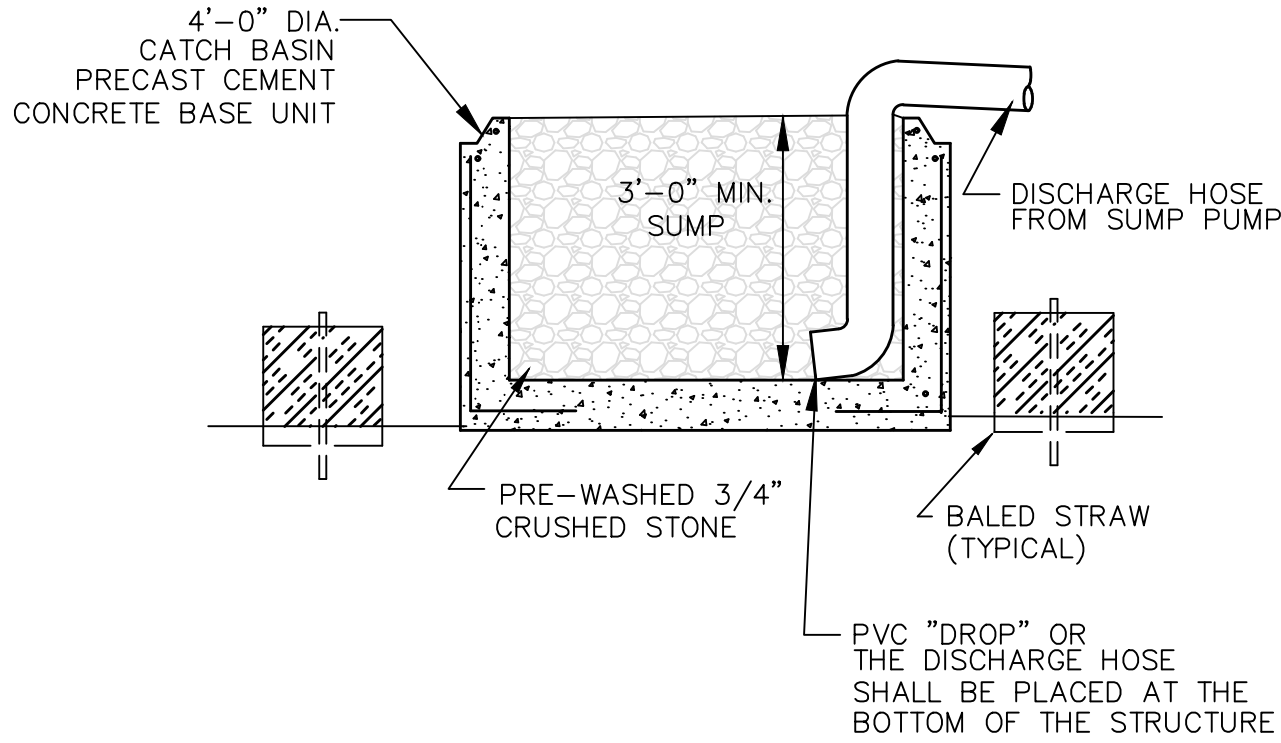
DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RE-SPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING AS TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE CONTRACTOR OR ITS DESIGNATED ENVIRONMENTAL MONITOR. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE ENVIRONMENTAL MONITOR OR THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.



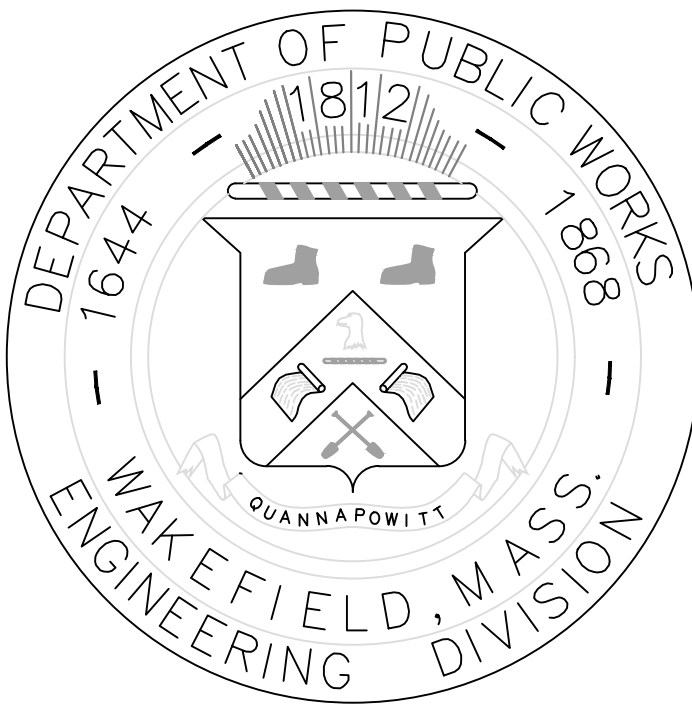
- NOTE:
1. SILTSACKS SHALL BE FLEXSTORM CATCH-IT OR APPROVED EQUAL.
 2. SILTSACKS SHALL BE INSTALLED IN ALL CATCH BASIN UNTIL DRAINAGE AREA HAS BEEN FULLY STABILIZED.



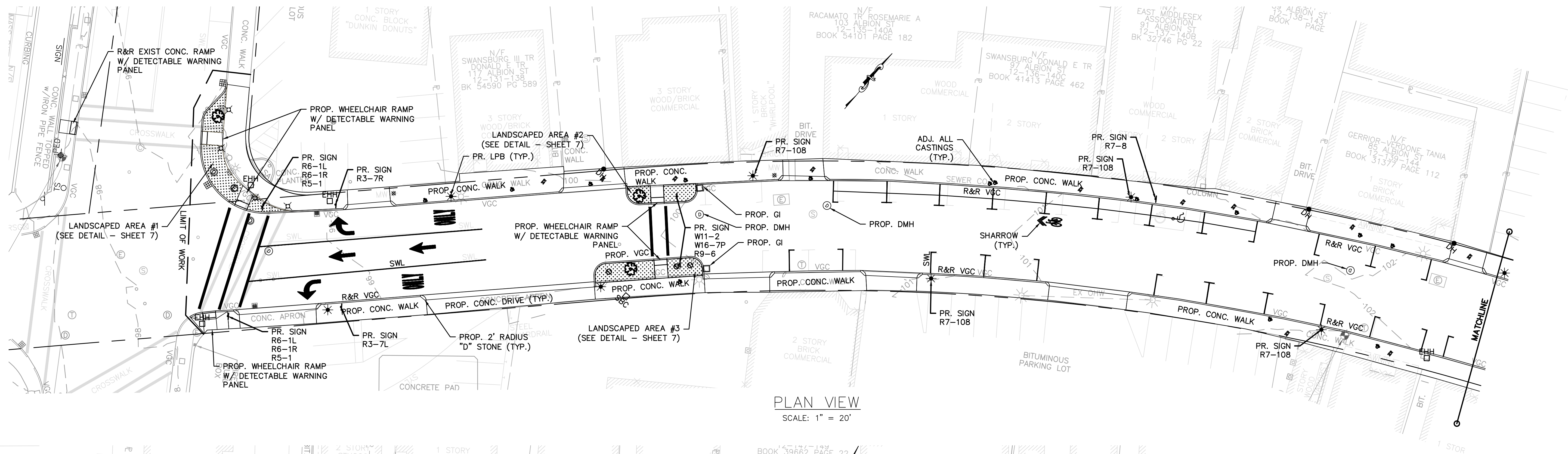
EROSION CONTROL FIBER ROLL

TOWN OF WAKEFIELD PUBLIC WORKS ALBION STREET

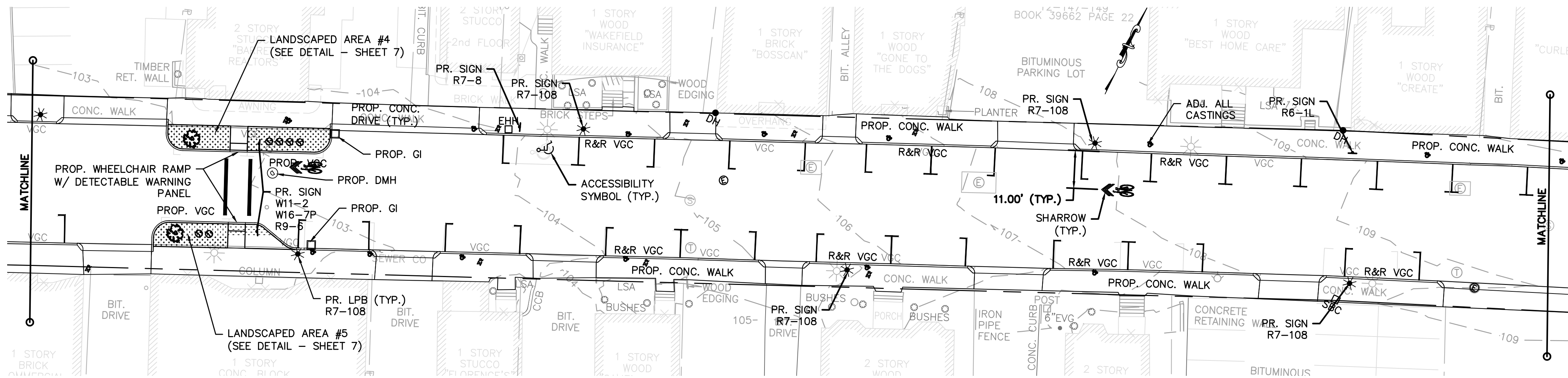
LEGEND, NOTES, AND DETAILS



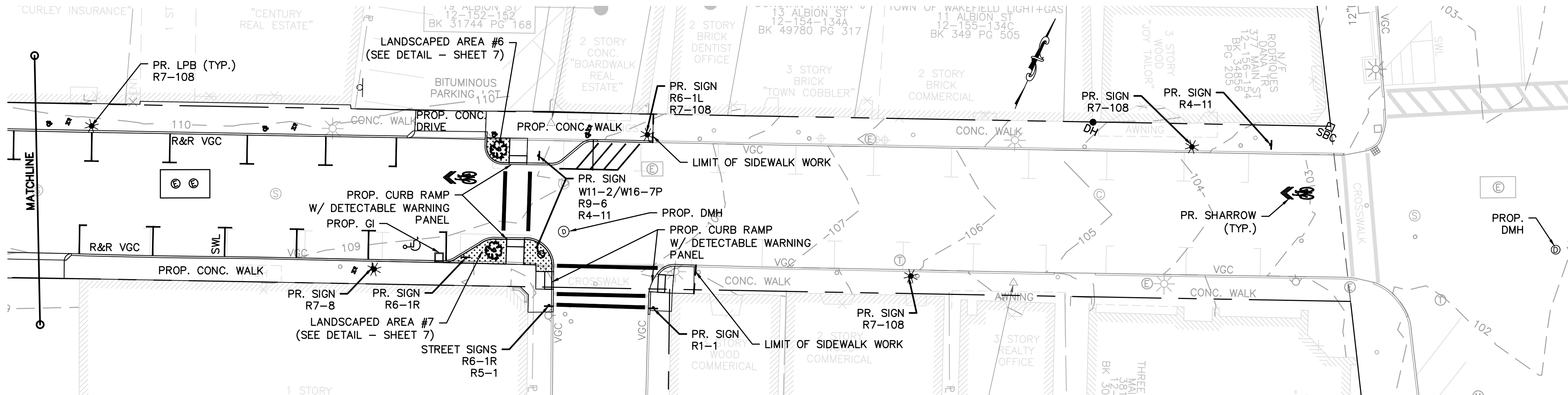
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DESIGNED BY: TWW
REVIEWED BY: WJR
APPROVED BY: WJR
DATE: 11/20/2020
REVISED 1: ---
SCALE: AS NOTED
FILE: 10143-ALBIONST
SHEET 2 OF 12



PLAN VIEW
SCALE: 1" = 20'



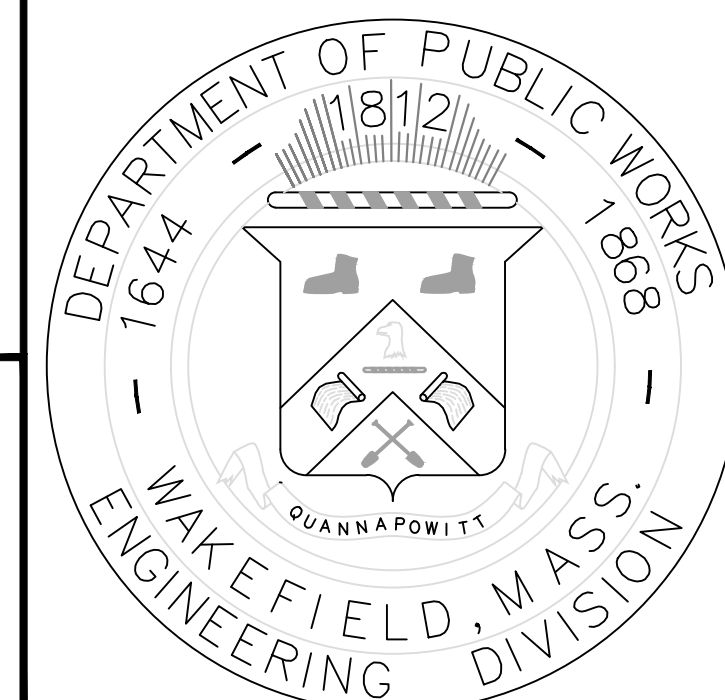
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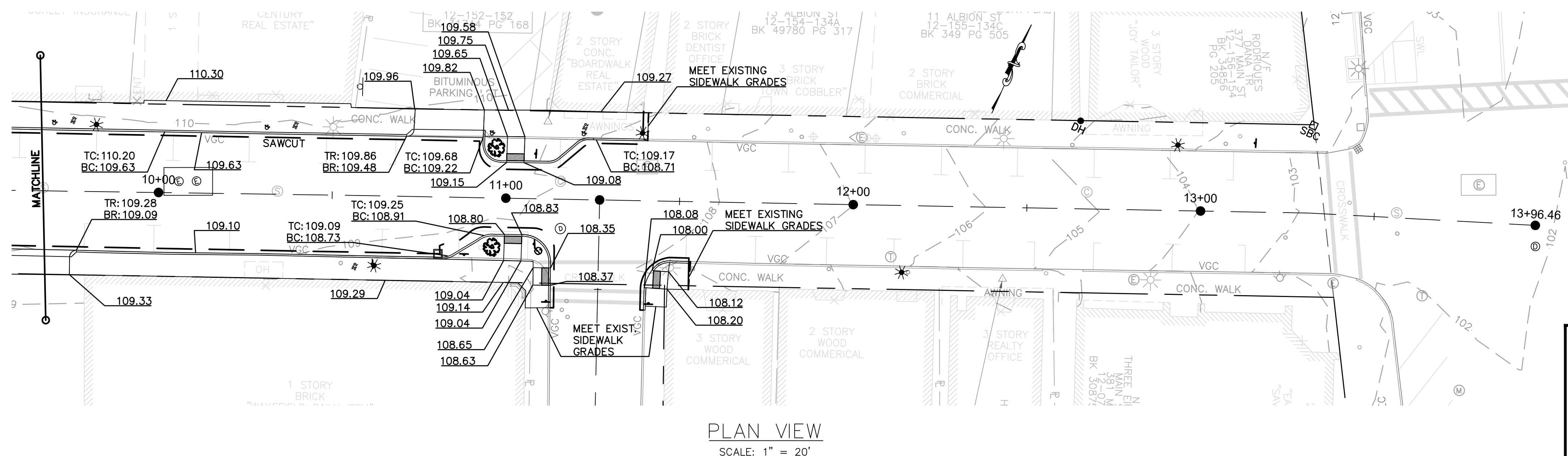
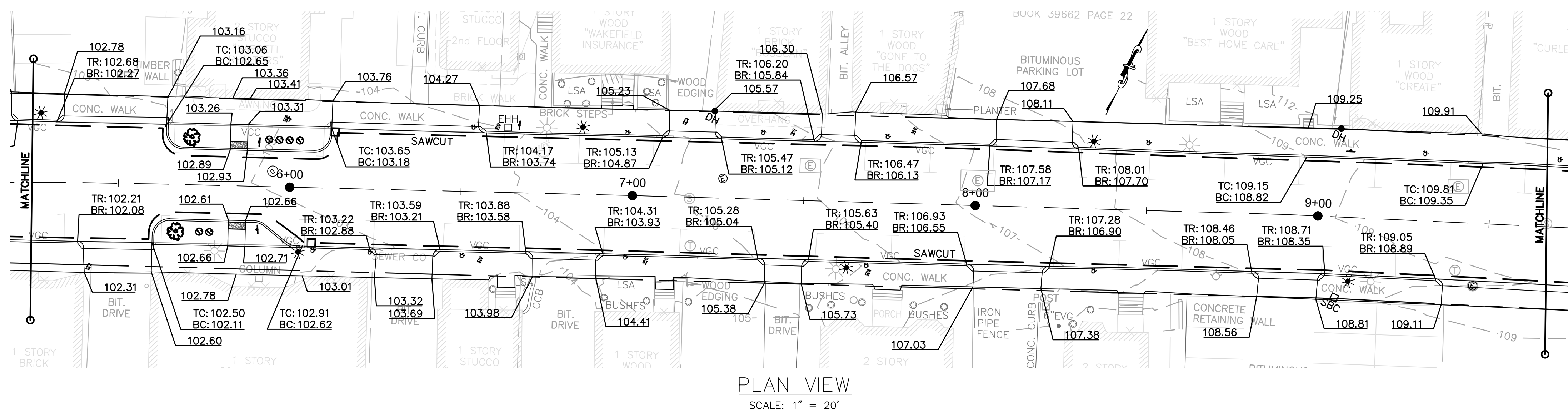
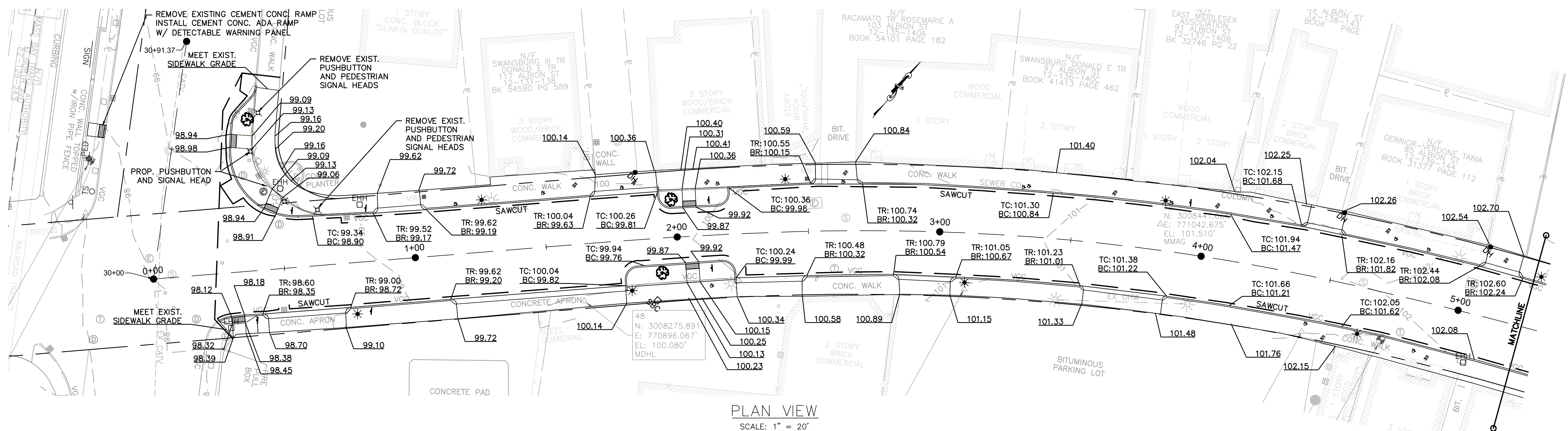
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SCALE: 1" = 20'

TOWN OF WAKEFIELD PUBLIC WORKS ALBION STREET

PROPOSED CONDITIONS PLAN

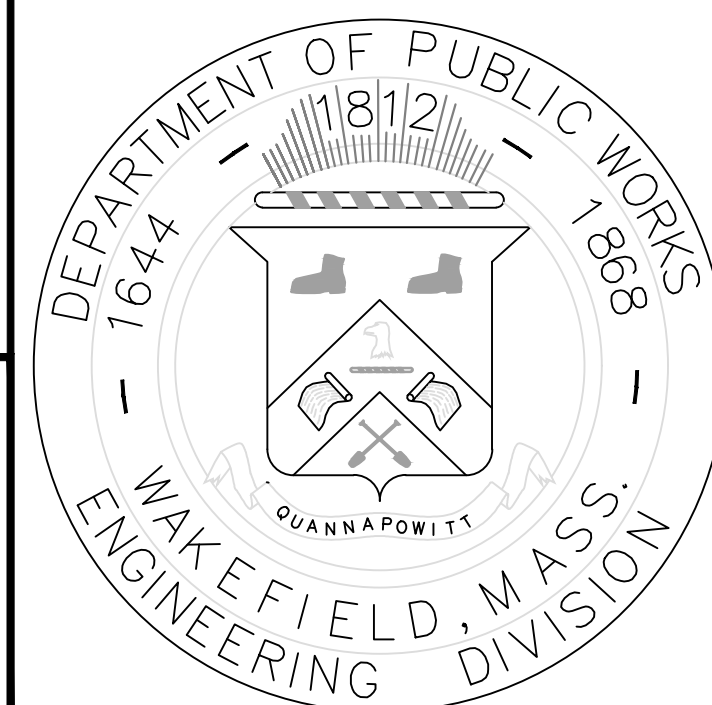


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DESIGNED BY: TWW
REVIEWED BY: WJR
APPROVED BY: WJR
DATE: 11/20/2020
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SCALE: AS NOTED
FILE: 10143-ALBIONST



TOWN OF WAKEFIELD PUBLIC WORKS
ALBION STREET

GRADING PLAN



DRAWN BY: TWW

DESIGNED BY: TWW

REVIEWED BY: WJR

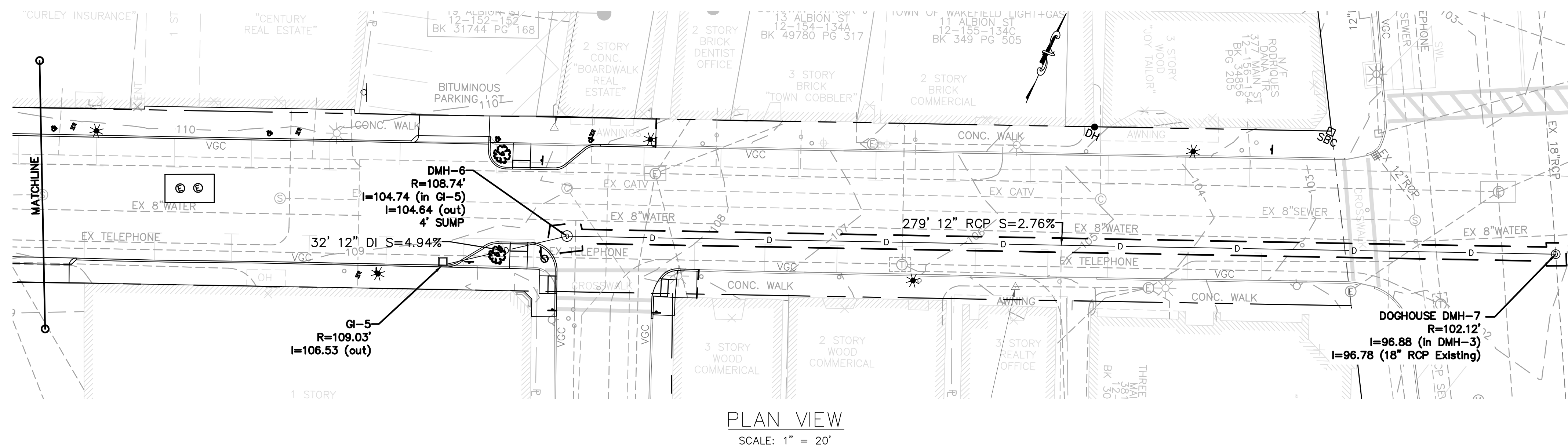
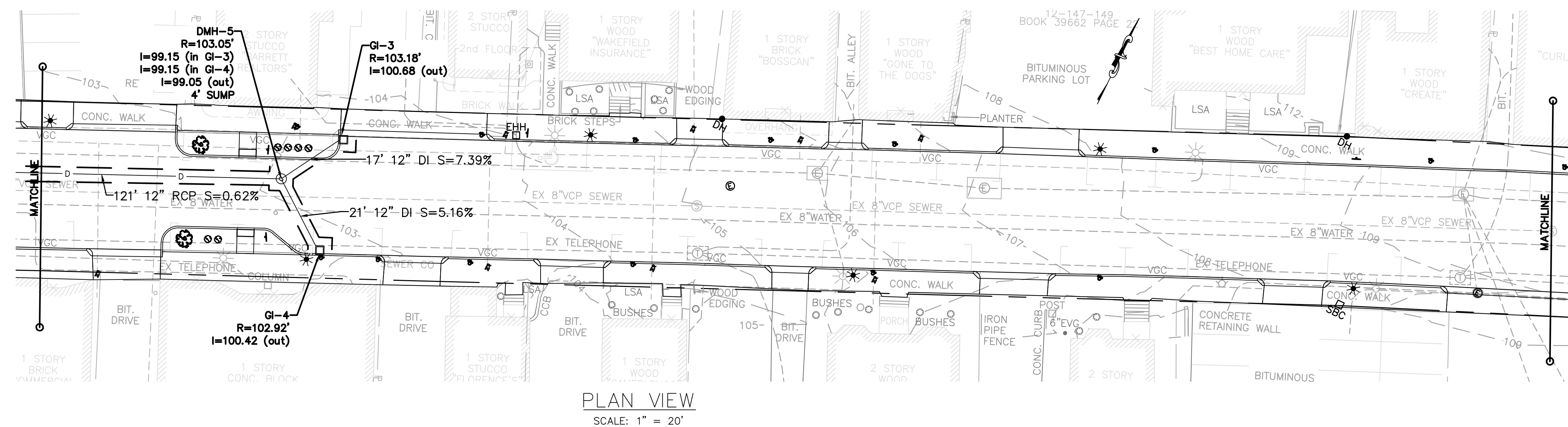
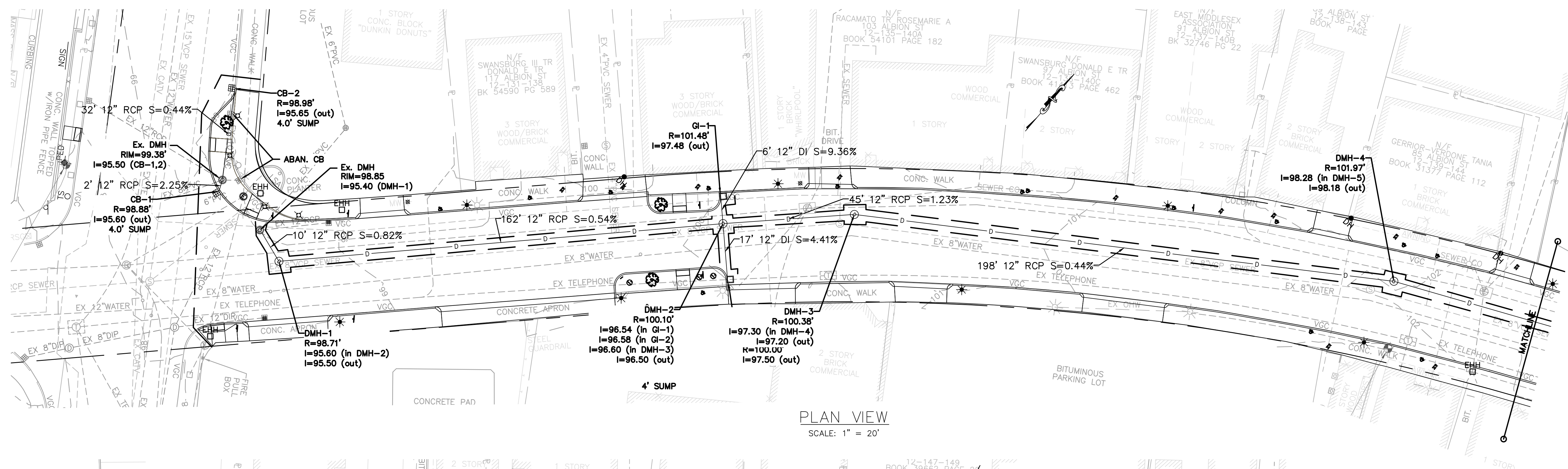
APPROVED BY: WJR

DATE: 11/20/2020

REVISÉ 1: ---

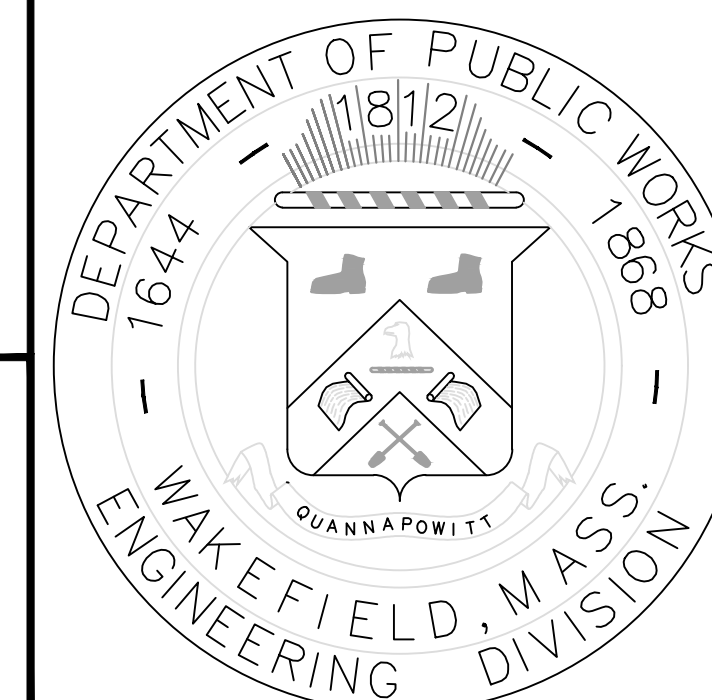
SCALE: AS NOTED

FILE: 10143-ALBIONST



TOWN OF WAKEFIELD PUBLIC WORKS
ALBION STREET

PROPOSED DRAINAGE PLAN



DRAWN BY: TWW

DESIGNED BY: TWW

REVIEWED BY: WJR

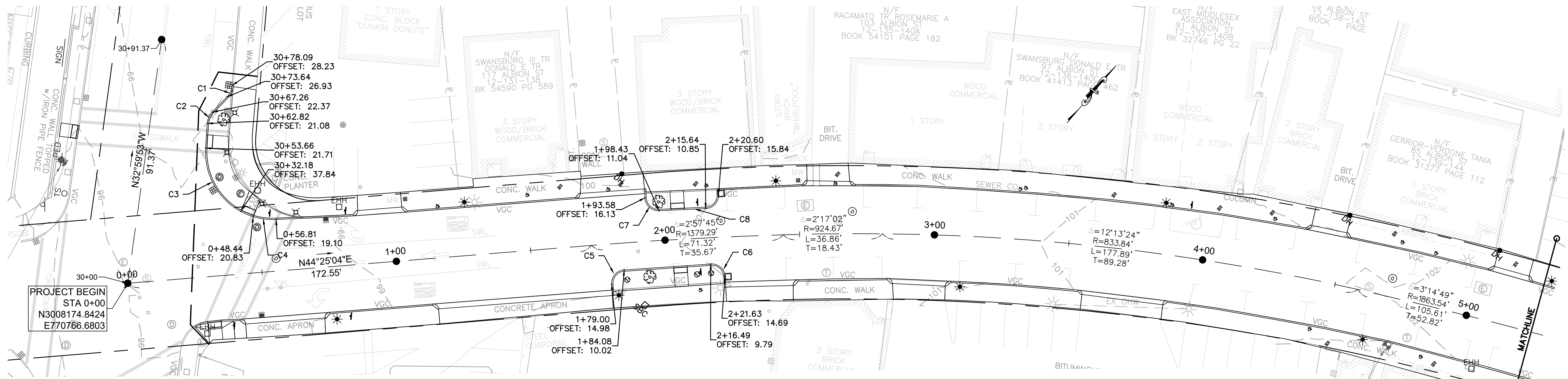
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DATE: 11/20/2020

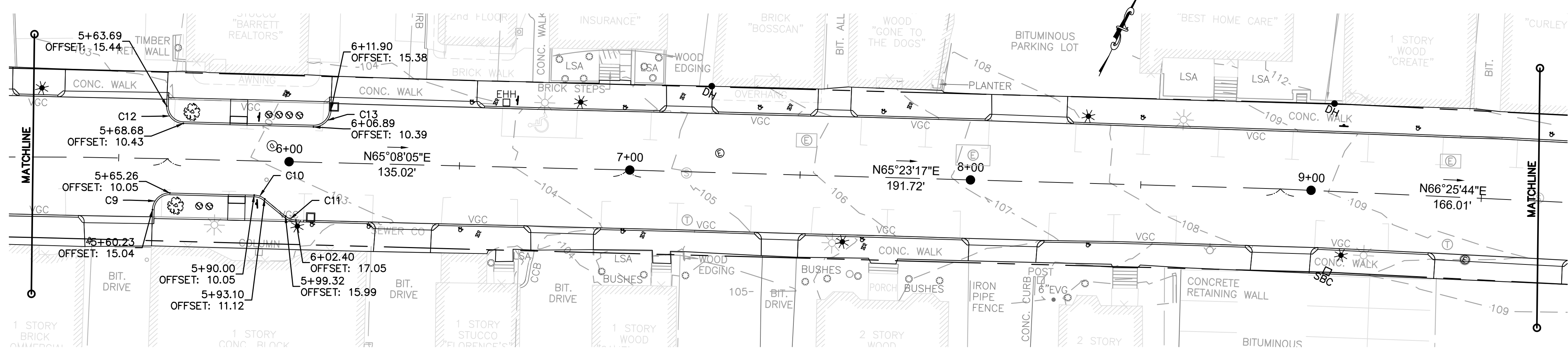
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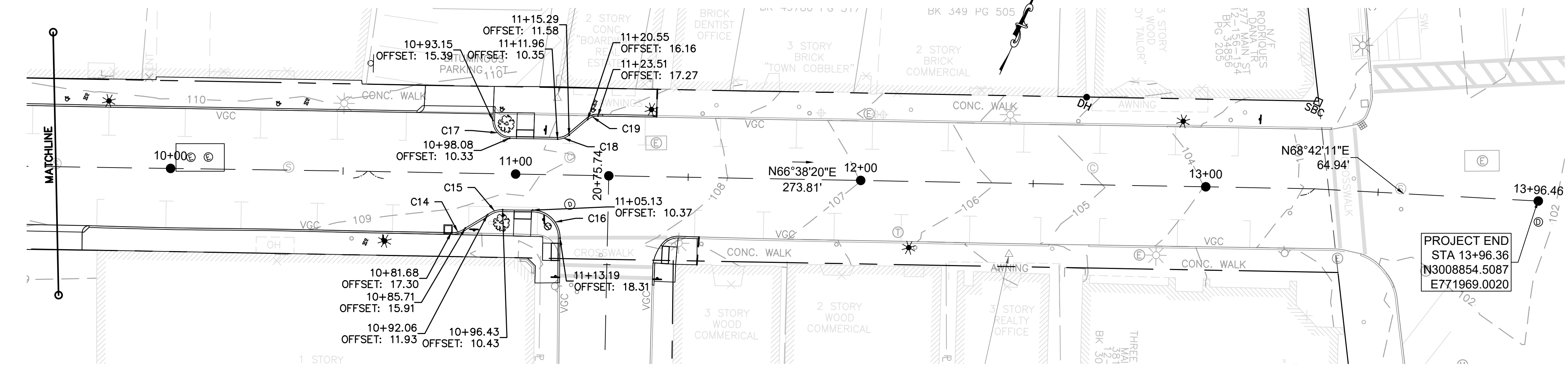
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PLAN VIEW
SCALE: 1" = 20'



PLAN VIEW
SCALE: 1" = 20'



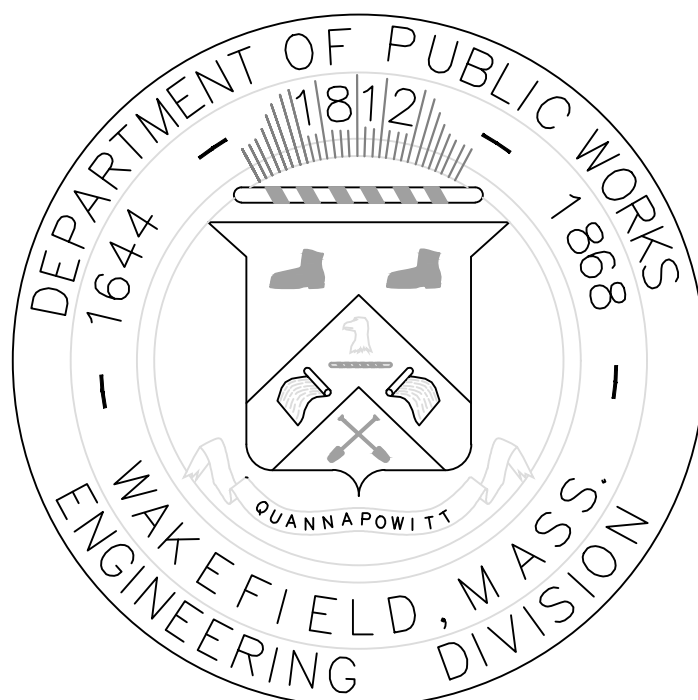
PLAN VIEW
SCALE: 1" = 20'

- NOTES:
1. CONSTRUCTION BASELINE AND FINAL LAYOUT OF CURBSTONES MUST BE APPROVED BY THE ENGINEER PRIOR TO SETTING THE PROPOSED CURB.
 2. TEMPORARY BENCH MARKS (TBM) SHALL BE PROVIDED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING OR TRANSFERRING TBM ONCE CONSTRUCTION BEGINS.

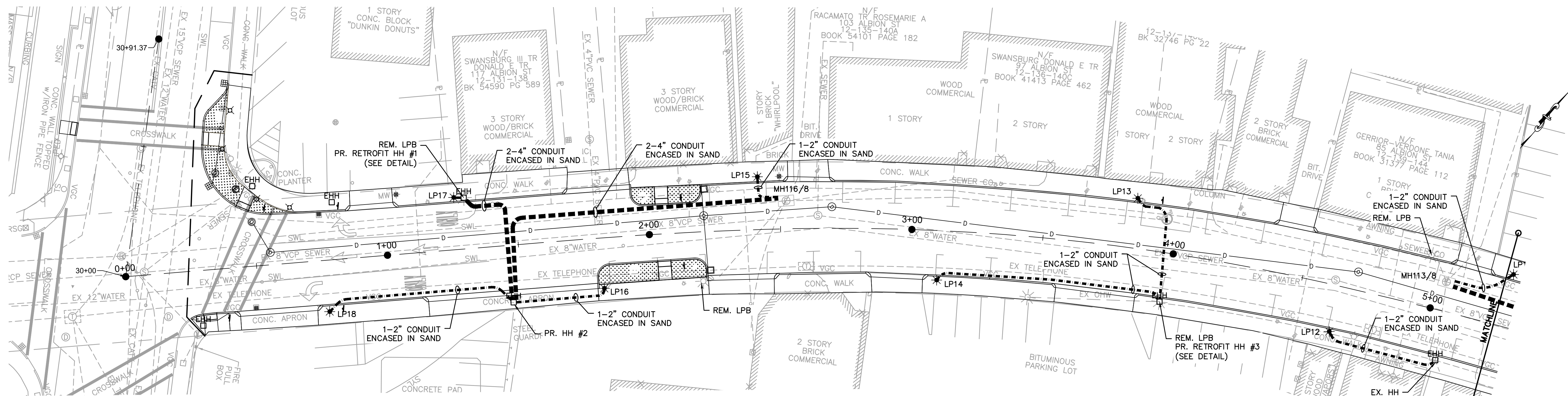
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C2	7	4.7	NORTH	30+67.26	22.37	30.62.82	21.08
C3	25	28.4	NORTH	30+53.66	21.71	30.32.18	37.64
C4	25	8.6	ALBION	0+48.44	20.83	0+56.81	19.10
C5	5	7.9	ALBION	1+79.00	14.98	1+84.08	10.02
C6	5	7.9	ALBION	2+16.46	9.79	2+21.61	14.69
C7	5	7.9	ALBION	1+93.56	16.13	1+98.42	11.04
C8	5	7.9	ALBION	2+15.63	10.85	2+20.60	15.84
C9	5	7.9	ALBION	5+60.23	15.04	5+65.25	10.05
C10	5	3.3	ALBION	5+90.00	10.05	5+93.10	11.12
C11	5	3.3	ALBION	5+99.32	15.99	6+02.40	17.05
C12	5	7.9	ALBION	5+63.69	15.44	6+68.68	10.43
C13	5	7.9	ALBION	6+06.09	10.39	6+11.90	15.38
C14	7	4.7	ALBION	10+81.68	17.30	10+85.71	15.91
C15	7	4.7	ALBION	10+92.06	11.93	10+96.43	10.43
C16	8	12.6	ALBION	11+05.13	10.37	11+13.19	18.31
C17	5	7.9	ALBION	10+93.15	15.39	10+98.08	10.33
C18	5	3.6	ALBION	11+11.96	10.35	11+15.29	11.58
C19	5	3.6	ALBION	11+20.55	16.16	11+23.51	17.27

TOWN OF WAKEFIELD PUBLIC WORKS ALBION STREET

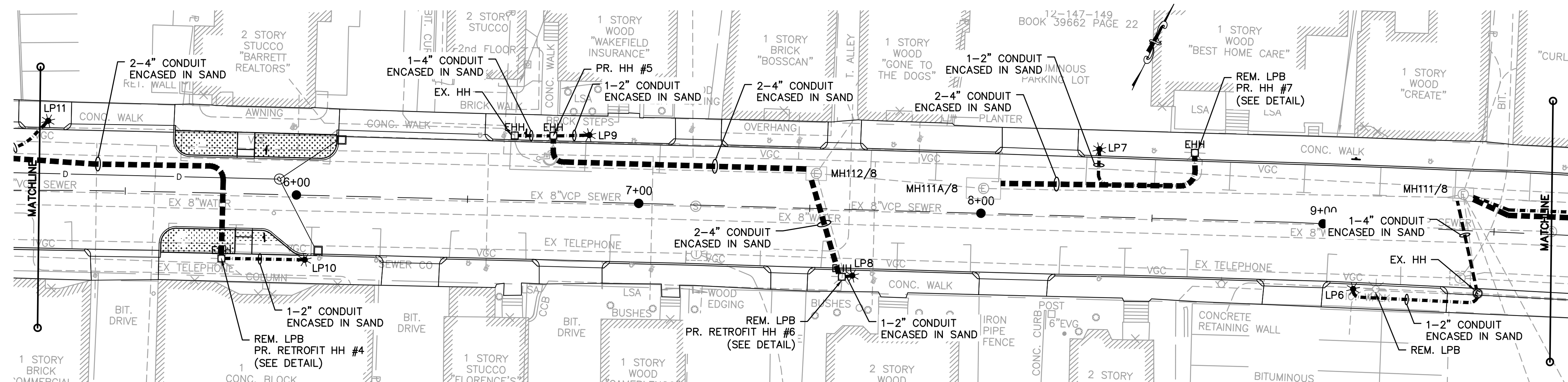
CURB TIE PLAN



DRAWN BY: TWW
DESIGNED BY: TWW
REVIEWED BY: WJR
APPROVED BY: WJR
DATE: 11/20/2020
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SCALE: AS NOTED
FILE: 10143-ALBIONST



PLAN VIEW
SCALE: 1" = 20'



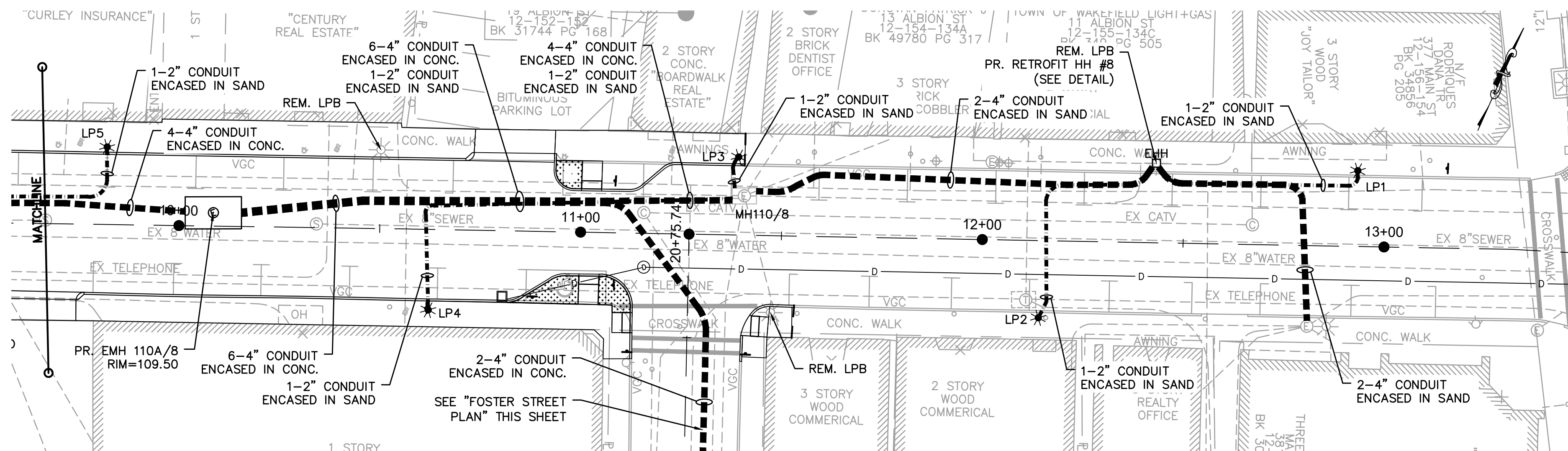
PLAN VIEW
SCALE: 1" = 20'

NOTES:

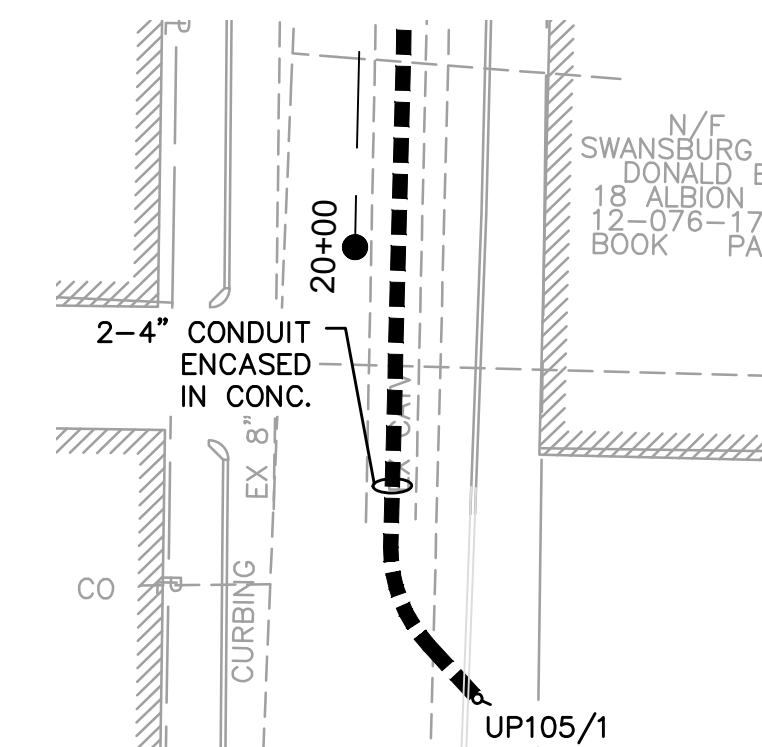
1. LIGHT POLES TO BE REMOVED AND DISPOSED BY WAKEFIELD MUNICIPAL GAS AND LIGHT DEPARTMENT (WMGLD).
2. ALL ELECTRIC EQUIPMENT MUST BE LOCATED IN THE RIGHT-OF-WAY OR EASEMENT. CERTIFIED "AS BUILTS" MUST BE SUBMITTED SHOWING ALL ELECTRIC EQUIPMENT LOCATIONS THIS EXCLUDES INDIVIDUAL ELECTRIC SERVICES TO BUILDINGS.
3. ALL CONDUIT BENDS MUST BE THIRTY SIX INCH RADIUS MINIMUM.
4. ALL CONDUITS MUST BE INSPECTED BY WMGLD PRIOR TO BACKFILLING. TWENTY FOUR HOURS NOTICE MUST BE GIVEN FOR ALL INSPECTIONS.
5. HANDHOLES MUST BE PLACED ON UNDISTURBED OR COMPACTED EARTH.
6. SPACERS MUST BE USED TO SEPARATE THE CONDUITS ENCASED IN CONCRETE. USE CARLON #S288NUN (OR EQUIVALENT) FOUR INCH BASE SPACERS, AND CARLON #S289NUN (OR EQUIVALENT) FOUR INCH INTERMEDIATE SPACERS. SPACERS MUST BE INSTALLED EVERY SEVEN FEET ALONG THE CONDUIT RUN.
7. SEPARATION REQUIREMENTS, PARALLEL: A MINIMUM OF ONE FOOT OF SEPARATION MUST BE MAINTAINED BETWEEN THE ELECTRIC CONDUITS AND THE TELEPHONE AND CABLE CONDUITS. A MINIMUM OF THREE FEET OF SEPARATION MUST BE MAINTAINED BETWEEN THE ELECTRIC CONDUITS AND WATER PIPES. A MINIMUM OF TWO FEET OF SEPARATION MUST BE MAINTAINED BETWEEN THE ELECTRIC CONDUITS AND ALL OTHER REMAINING UTILITIES.
8. SEPARATION REQUIREMENTS, CROSSING: A MINIMUM OF THREE INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE ELECTRIC CONDUITS AND THE TELEPHONE AND CABLE CONDUITS. A MINIMUM OF TWO FEET OF SEPARATION MUST BE MAINTAINED BETWEEN THE ELECTRIC CONDUITS AND WATER PIPES. A MINIMUM OF SIX INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE ELECTRIC CONDUITS AND ALL OTHER REMAINING UTILITIES.

LEGEND

- PROPOSED UNDERGROUND PRIMARY
4" SCH40 PVC CONDUITS
- PROPOSED UNDERGROUND SECONDARY
2" SCH40 PVC CONDUITS



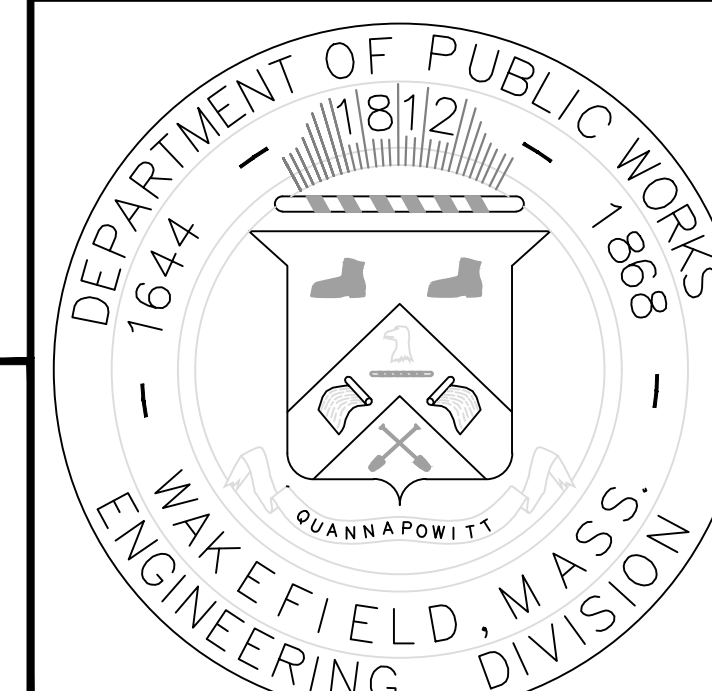
PLAN VIEW
SCALE: 1" = 20'



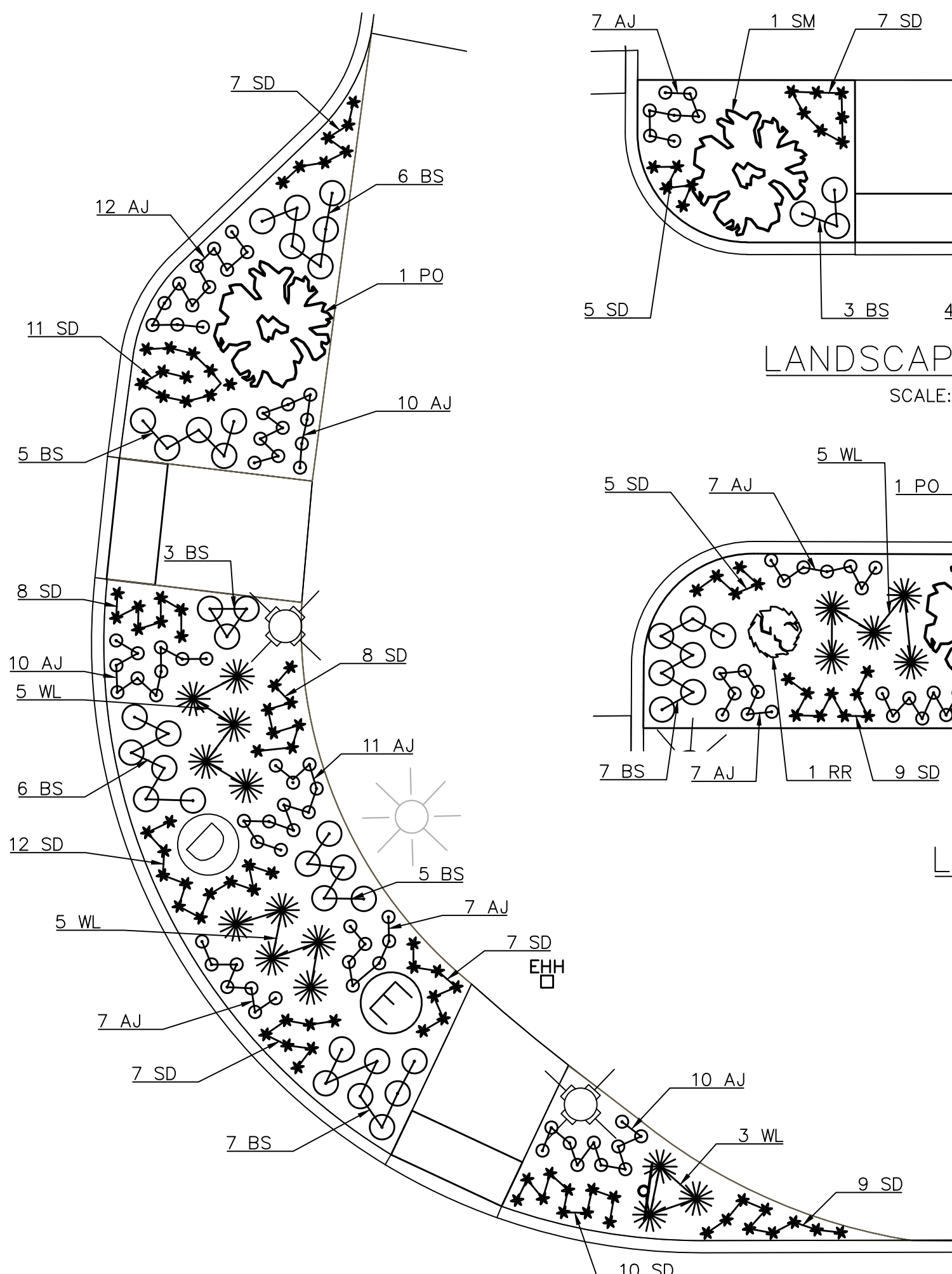
FOSTER STREET PLAN
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TOWN OF WAKEFIELD PUBLIC WORKS
ALBION STREET

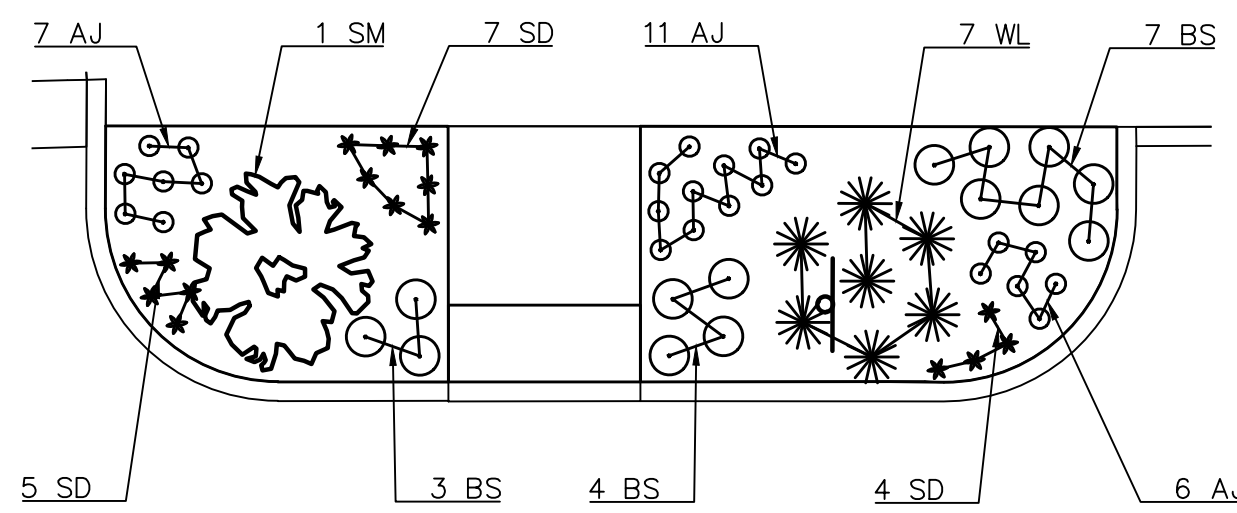
PROPOSED ELECTRICAL PLAN



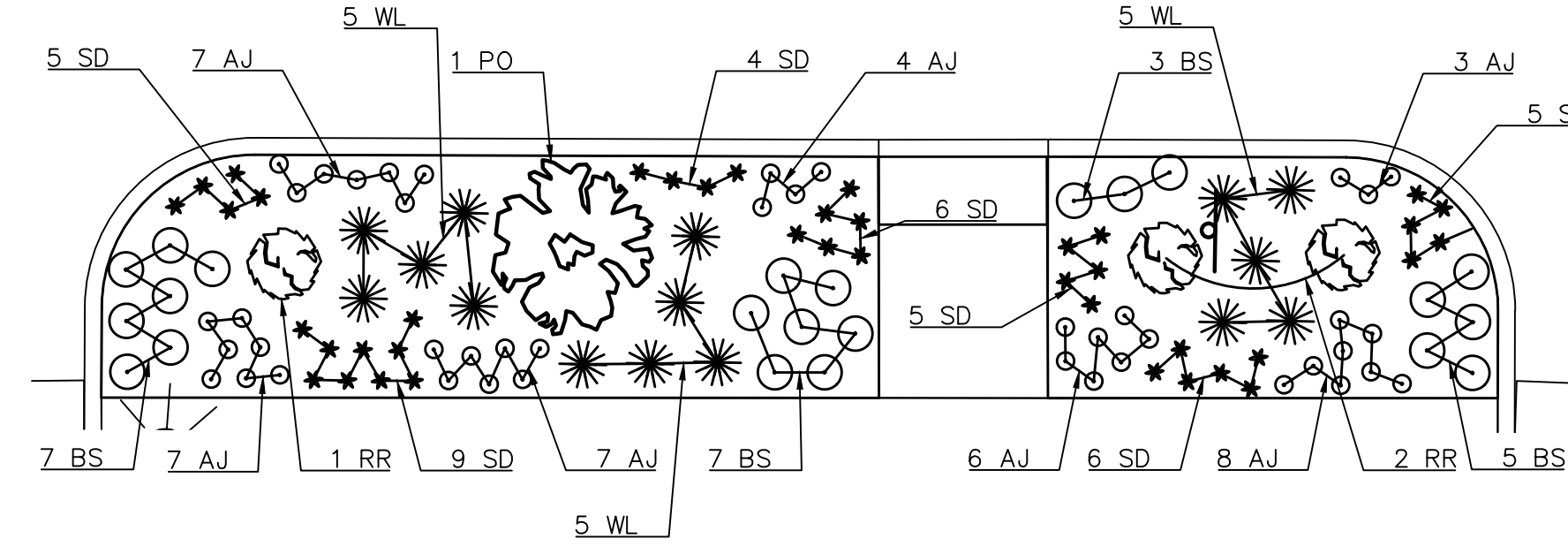
DRAWN BY: TWW
DESIGNED BY: TWW
REVIEWED BY: WJR
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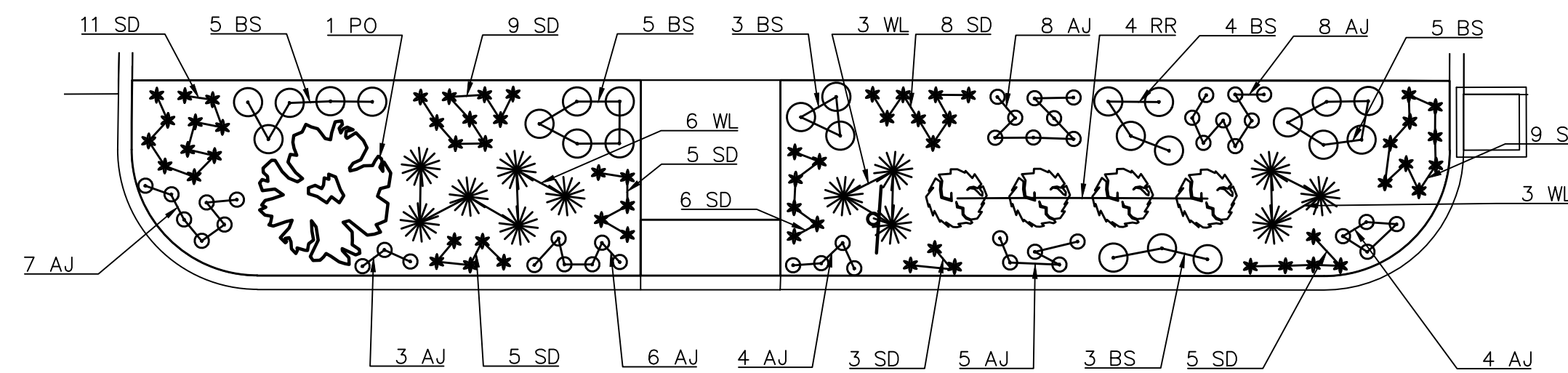
LANDSCAPE AREA #1
SCALE: 1" = 5'



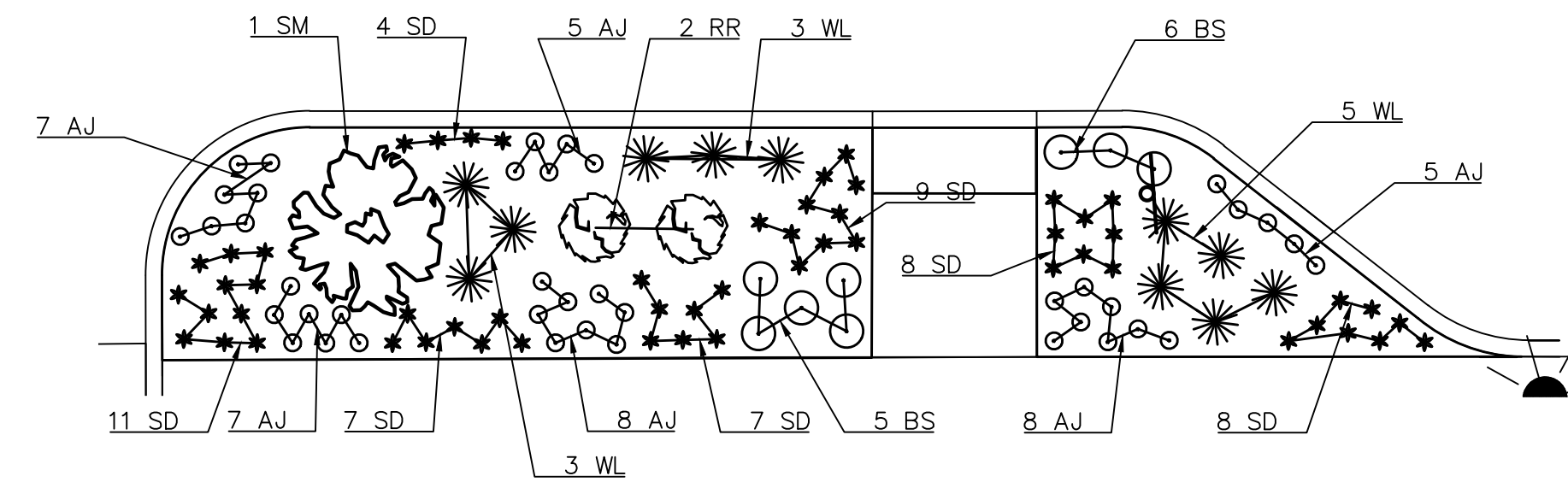
LANDSCAPE AREA #2
SCALE: 1" = 5'



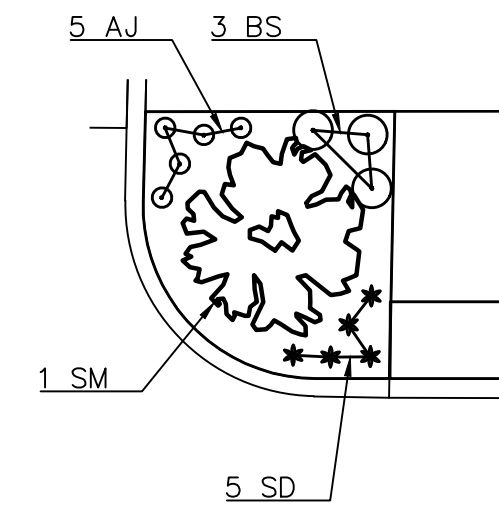
LANDSCAPE AREA #3
SCALE: 1" = 5'



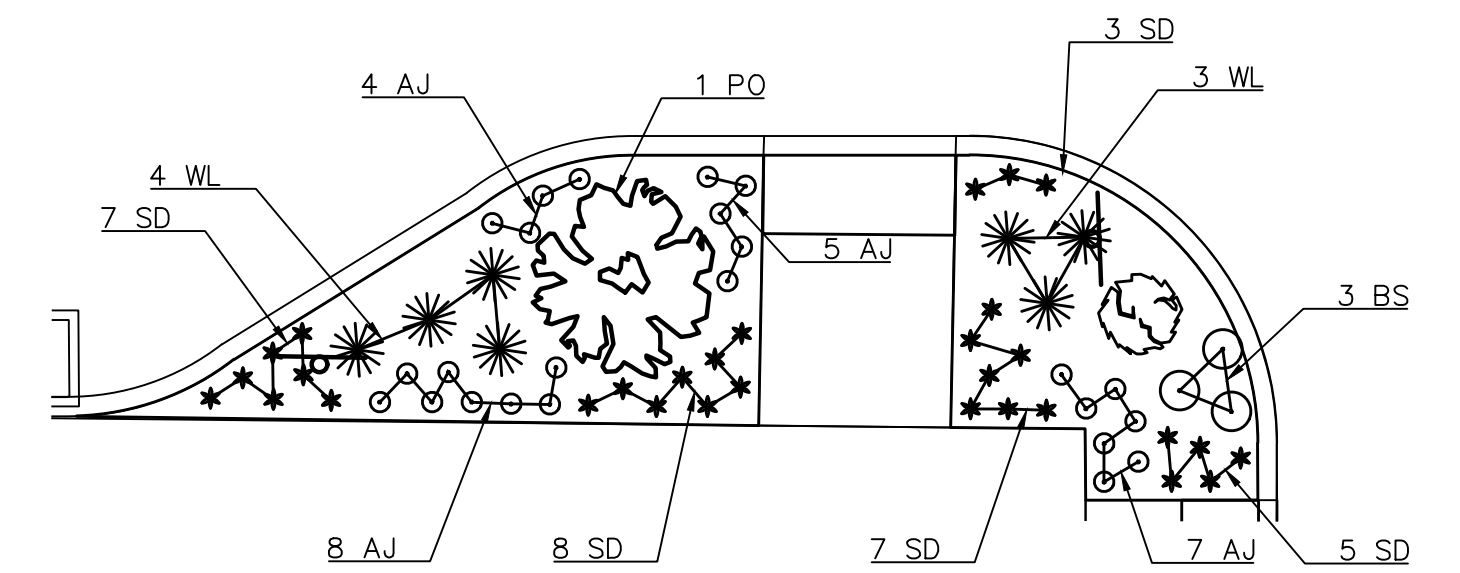
LANDSCAPE AREA #4
SCALE: 1" = 5'



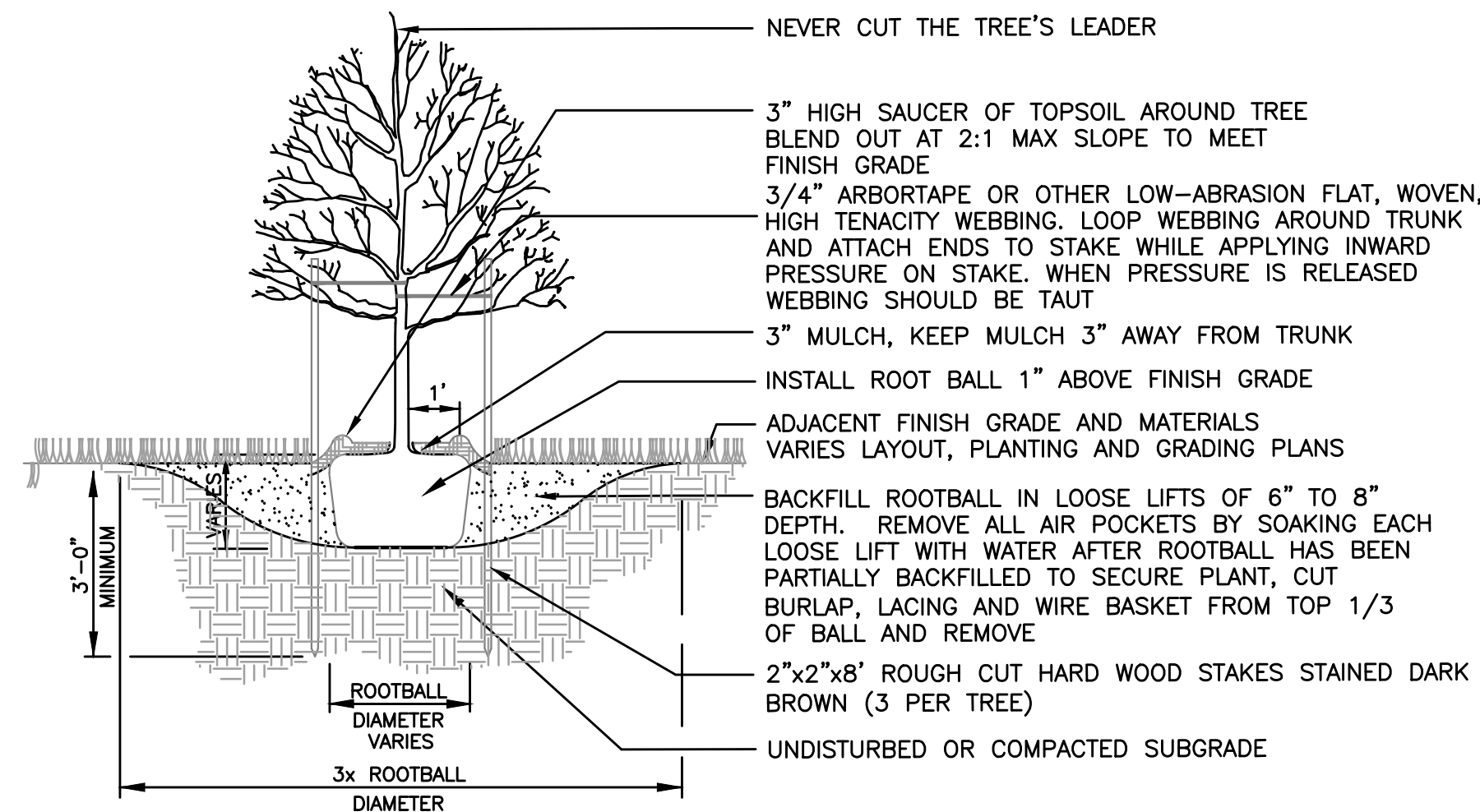
LANDSCAPE AREA #5
SCALE: 1" = 5'



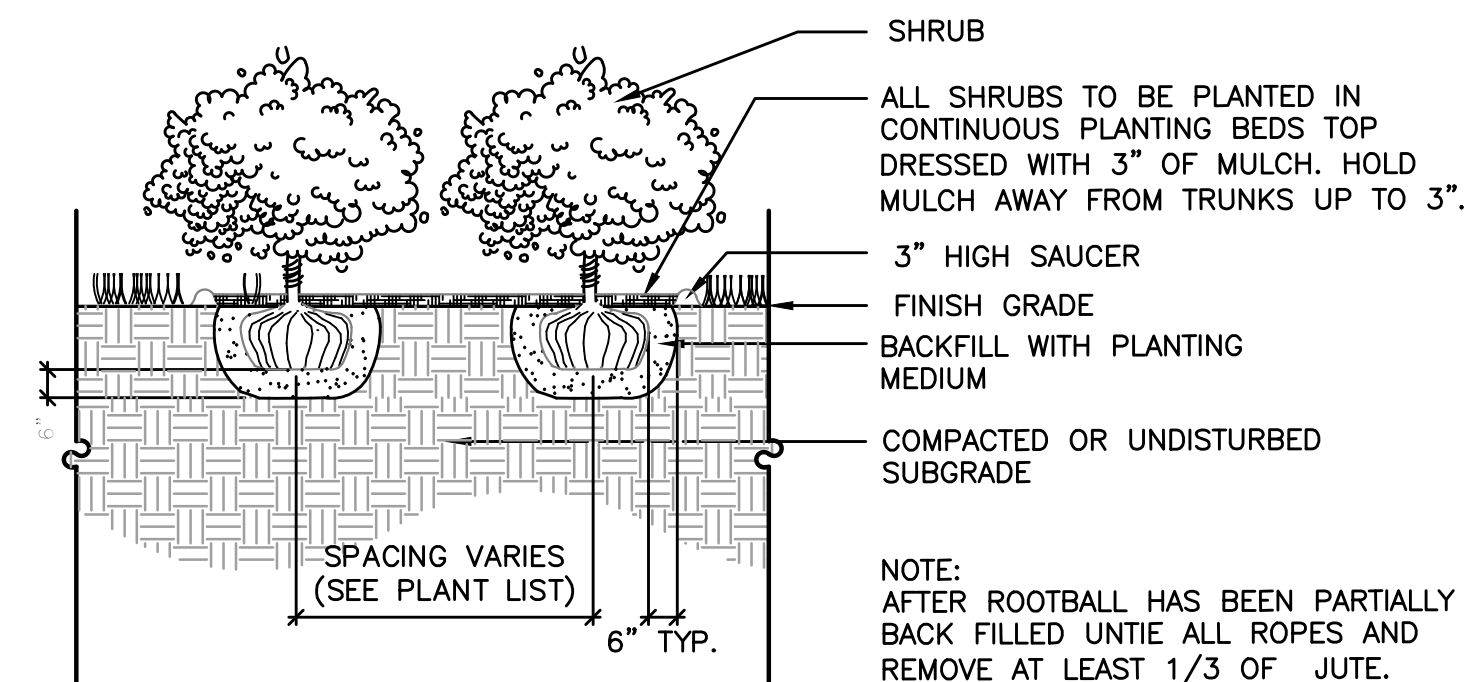
LANDSCAPE AREA #6
SCALE: 1" = 5'



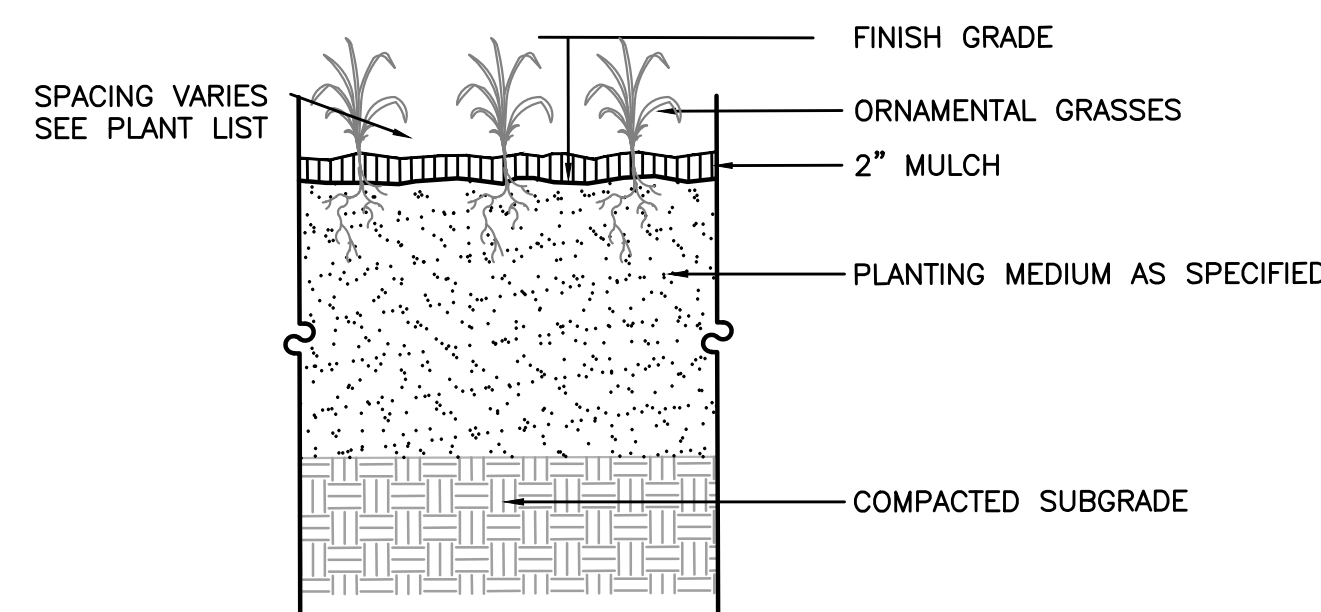
LANDSCAPE AREA #7
SCALE: 1" = 5'



DECIDUOUS TREE IN LANDSCAPED AREA
NOT TO SCALE



SHRUB PLANTING
NOT TO SCALE



GROUNDCOVER AND PERENNIAL PLANTING
NOT TO SCALE

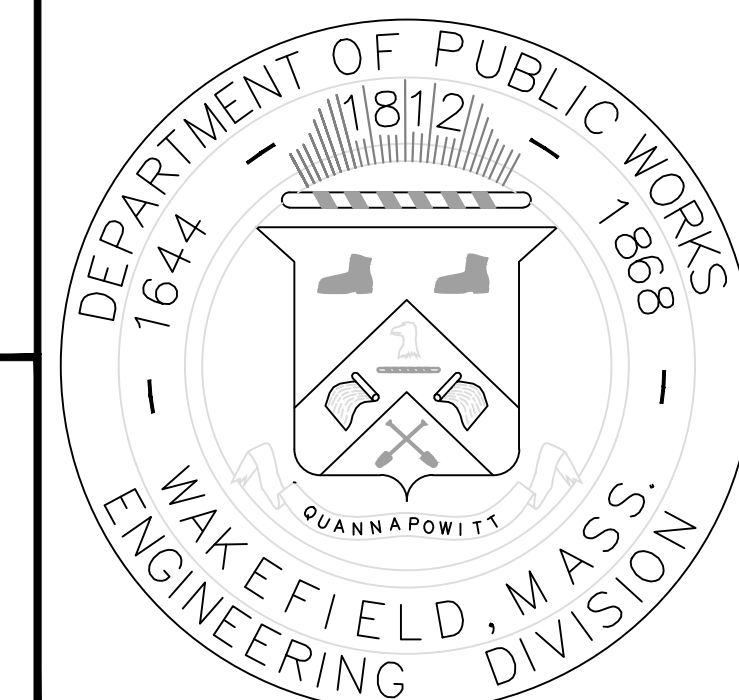
PLANTING SCHEDULE						
SYMBOL	ABREV.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
	RR	10	ROSA RADRAZZ	KNOCKOUT ROSE	3' POT	3' O.C.
	WL	65	NEPETA X FAASSENII	WALKER'S LOW CATMINT	1/2 GAL.	2'-3' O.C.
	BS	107	RUDBECKIA	BLACK-EYED SUSAN	9" POT	1.5'-2' O.C.
	AJ	250	SEDUM	AUTUMN JOY	1 GAL.	1' O.C.
	SD	285	HEMEROCALLIS	STELLA D'ORO DAY LILY	1/2 GAL.	1' O.C.
	PO	4	QUERCUS PALUSTRIS	PIN OAK	2-2.5" CAL.	N/A
	SM	3	ACER PSEUDOPLATANUS	SYCAMORE MAPLE	2-2.5" CAL.	N/A

PLANTING NOTES:

- CONTRACTOR SHALL LAYOUT PLANTS FOR FINAL LOCATION APPROVAL BY THE ENGINEER PRIOR TO PLANTING.
- ALL EXPOSED SOIL INBETWEEN PLANTINGS SHALL BE COVERED BY 2" OF BLACK BARK MULCH AND WATERED THOROUGHLY.
- CONTRACTOR MAY REMOVE, STOCKPILE, AND REUSE EXISTING PLANTINGS SITUATED WITHIN THE LANDSCAPED AREAS.

TOWN OF WAKEFIELD PUBLIC WORKS
ALBION STREET

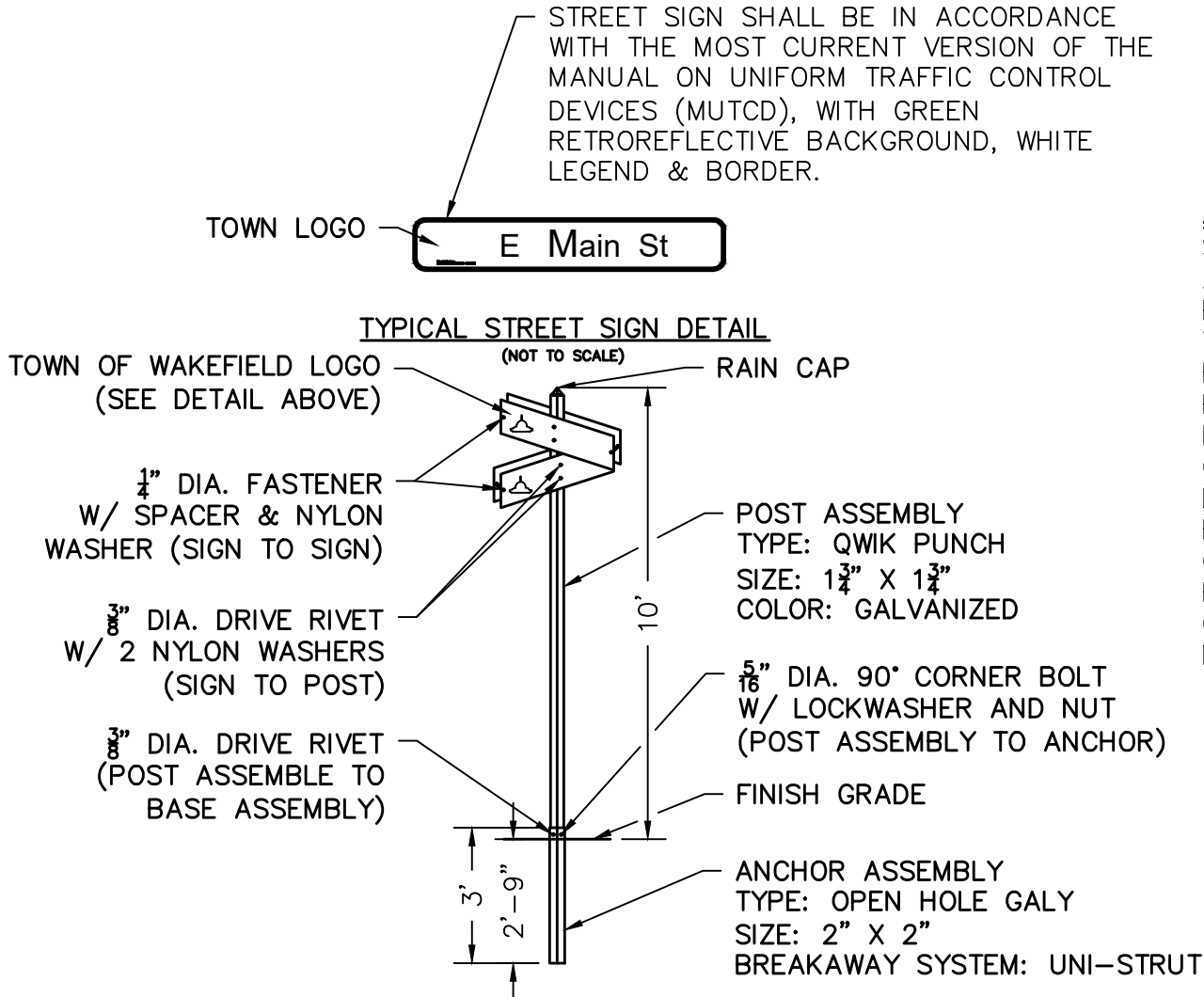
PLANTING PLAN



DRAWN BY: TWW
DESIGNED BY: TWW
REVIEWED BY: WJR
APPROVED BY: WJR
DATE: 11/20/2020
REVISED 1: ---
SCALE: AS NOTED
FILE: 10143-ALBIONST

TRAFFIC SIGN SUMMARY							
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	NUMBER OF SIGNS REQ'D	TEXT DIMEN- SION- S	COLOR	UNIT AREA IN SQUARE FEET
	WIDTH	HEIGHT					
R1-1	30in	30in		1 NEW	SEE MUTCD		6.16
R3-7L	30in	30in		1 NEW	SEE MUTCD		6.25
R3-7R	30in	30in		1 NEW	SEE MUTCD		6.25
R4-11	30in	30in		2 NEW	SEE MUTCD		6.25
R5-1	30in	30in		4 NEW	SEE MUTCD		25
R6-1L	36in	12in		5 NEW	SEE MUTCD		3
R6-1R	36in	12in		5 NEW	SEE MUTCD		3
R6-2L	18in	24in		1 NEW	SEE MUTCD		3
R7-108	18in	24in		13 NEW	SEE MUTCD		3
R7-1R	18in	24in		1 NEW	SEE MUTCD		3
R7-8	18in	24in		3 NEW	SEE MUTCD		3
R9-6	12in	18in		6 NEW	SEE MUTCD		1.5
W11-2	30in	30in		6 NEW	SEE MUTCD		6.25
W16-7P	24in	12in		6 NEW	SEE MUTCD		2

1. POSTS ANCHOR SLEEVES AND ANCHOR HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.
2. ALL STREET NAME SIGNS SHALL CONSIST OF 2 SINGLE SIDED SIGNS MOUNTED BACK TO BACK 9" x VARIES FLAT ALUMINUM, 0.080 GAUGE BACKGROUND AND COPY: 6" WHITE LETTERS ON GREEN BACKGROUND WITH WHITE BORDER, HIGH INTENSITY PRISMATIC SHEETING, TYPEFACE AND SPACING TO MEET MUTCD STANDARDS



ABBREVIATIONS:

STREET = ST

AVENUE = AVE

PLACE = PL

WAY = WAY

BOULEVARD = BLVD

PARKWAY = PKWY

LANE = LN

COURT = CT

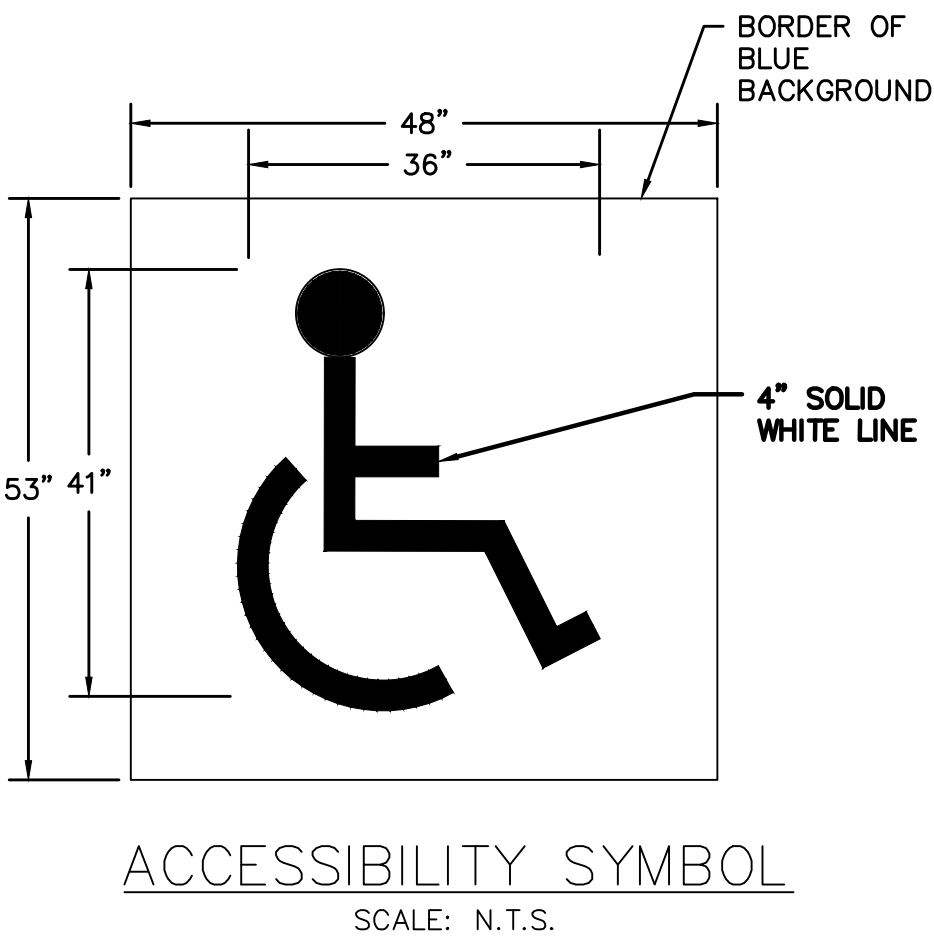
DRIVE = DR

ROAD = RD

CIRCLE = CIR

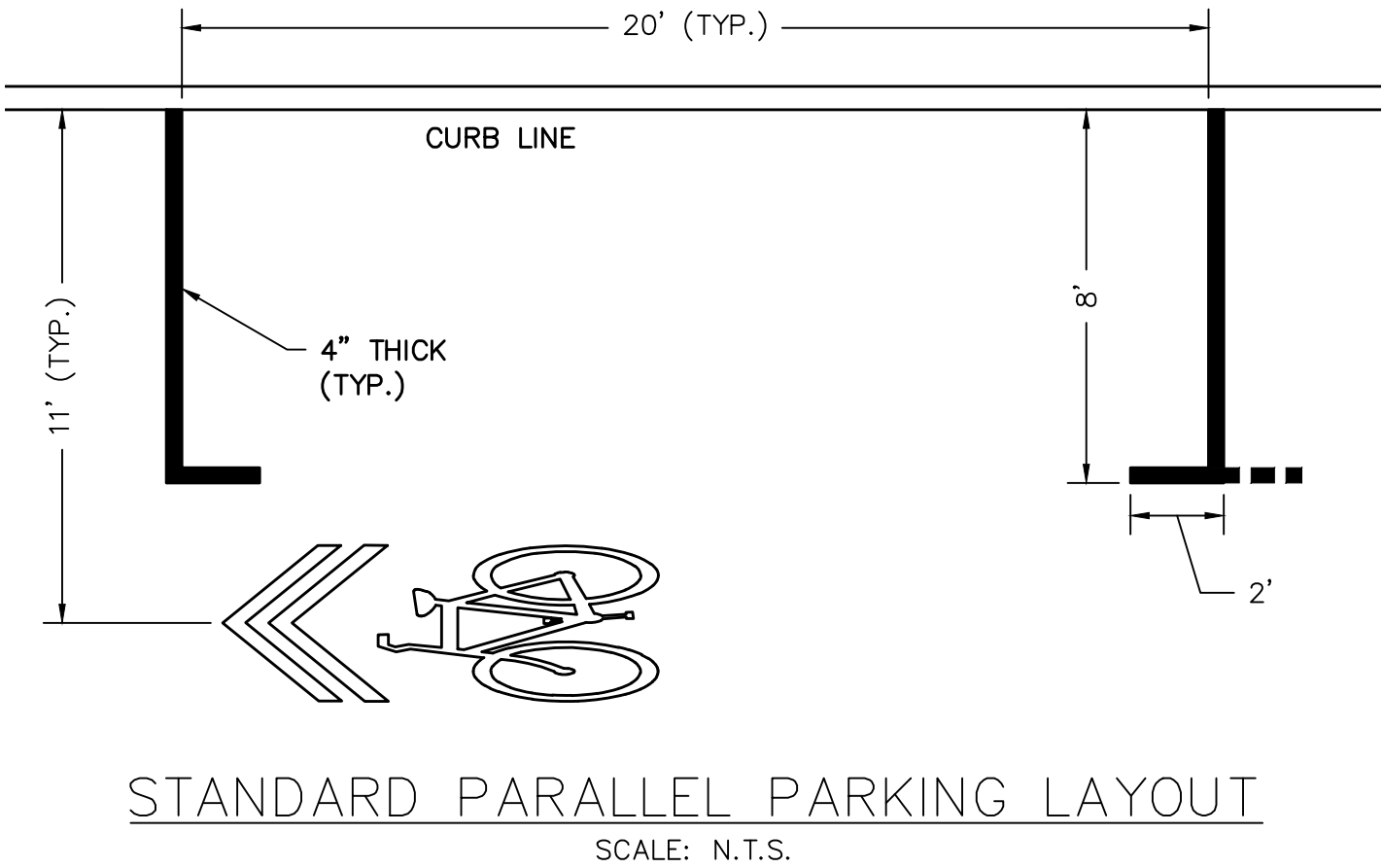
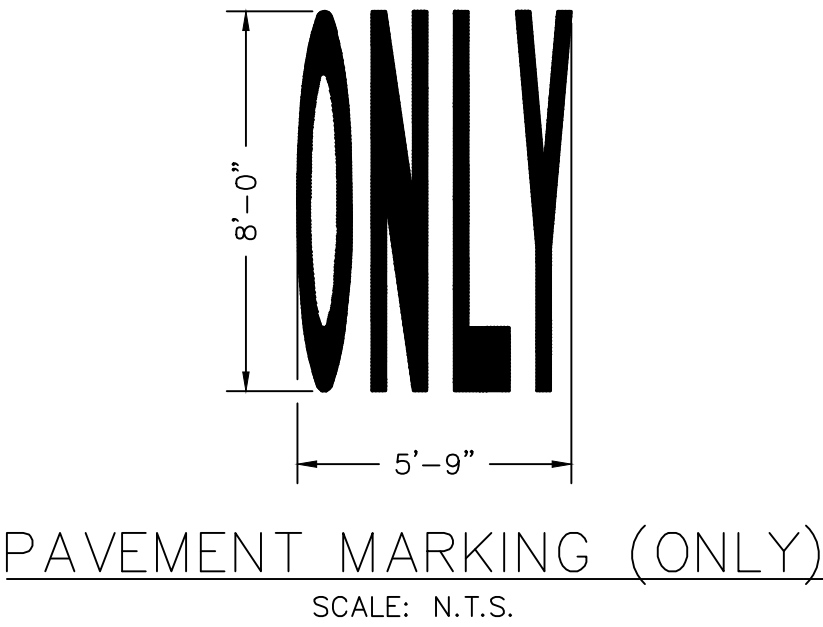
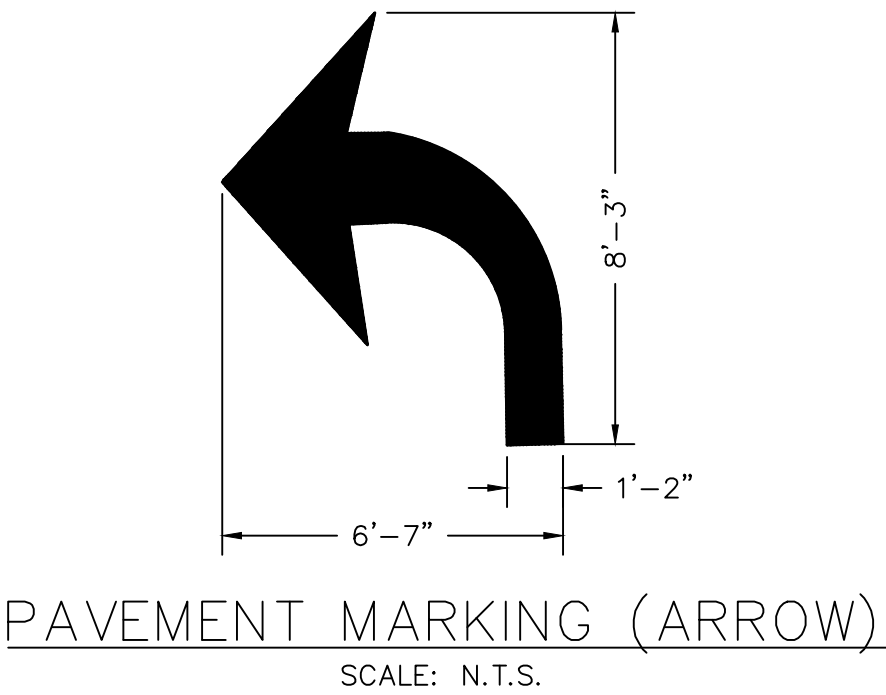
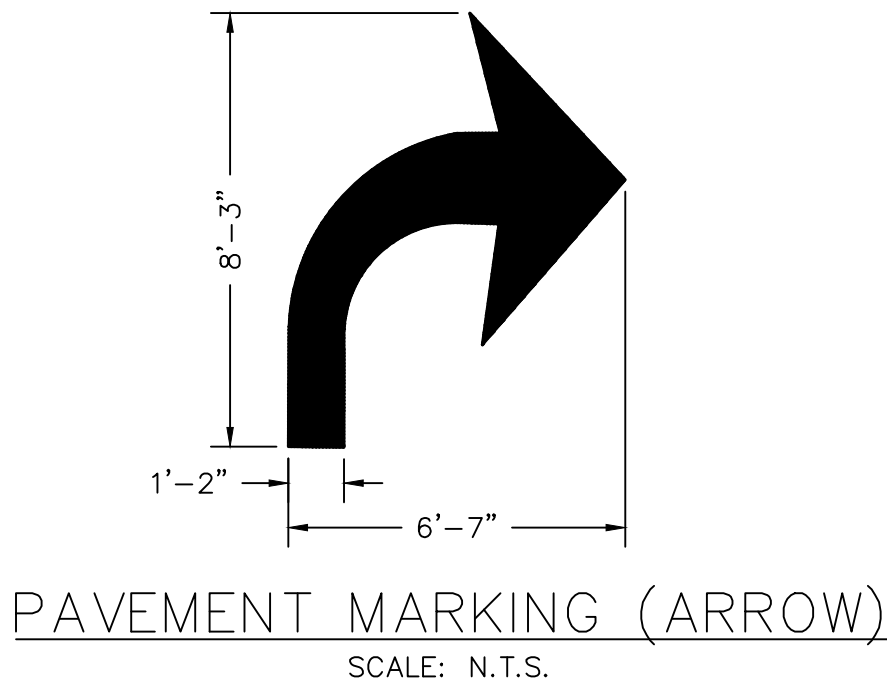
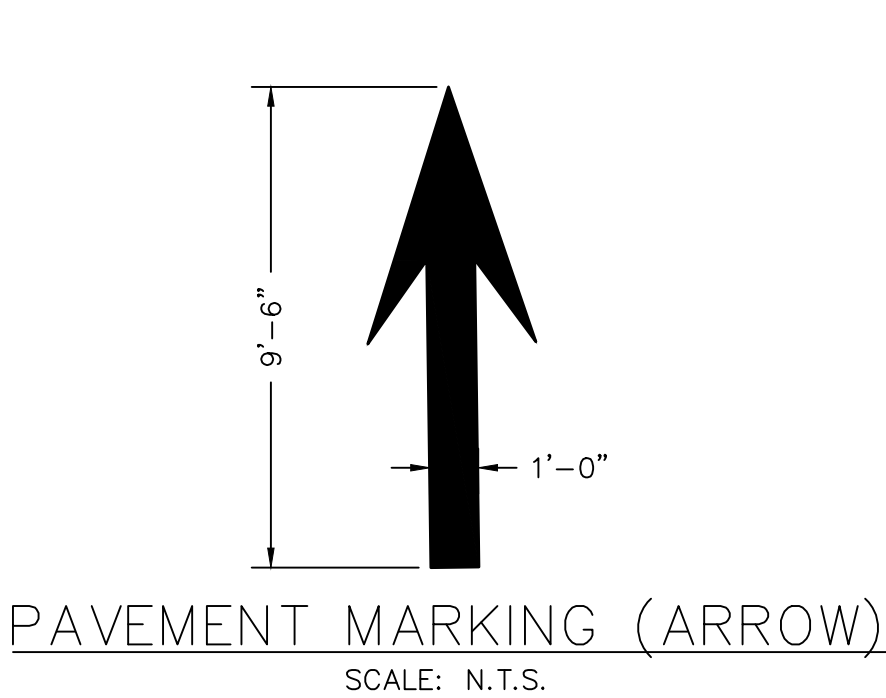
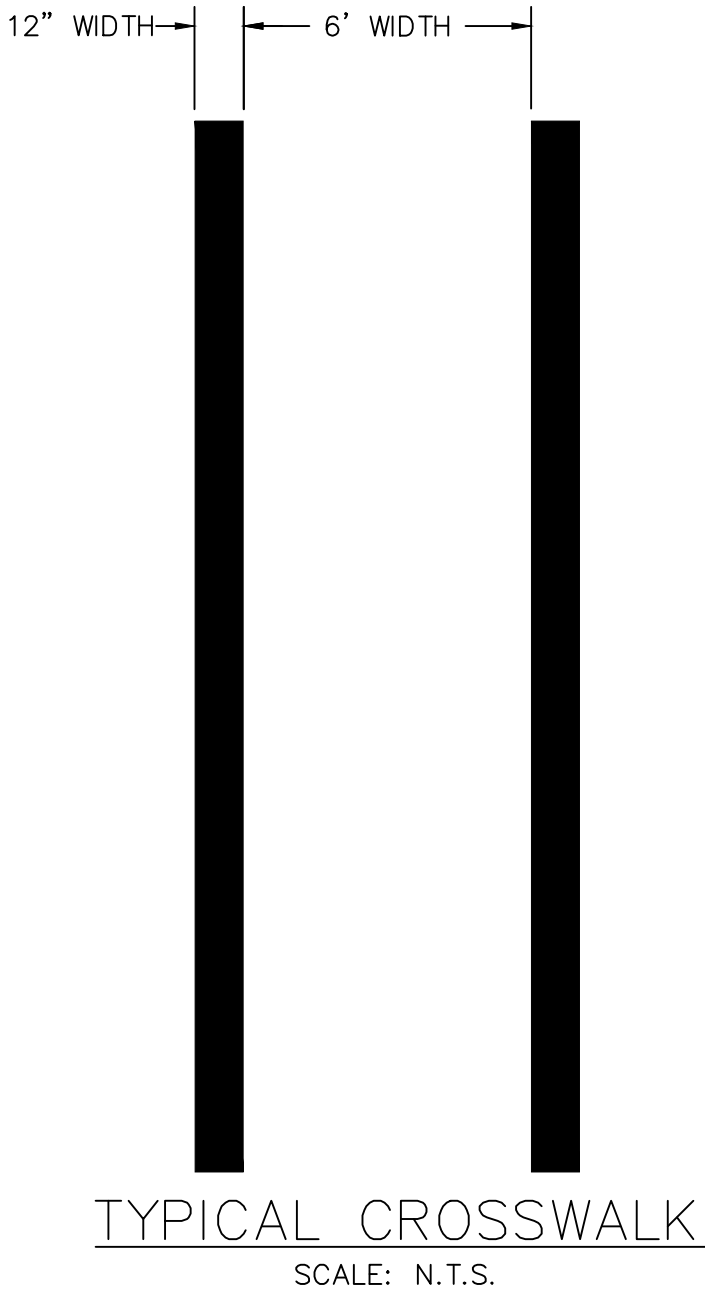
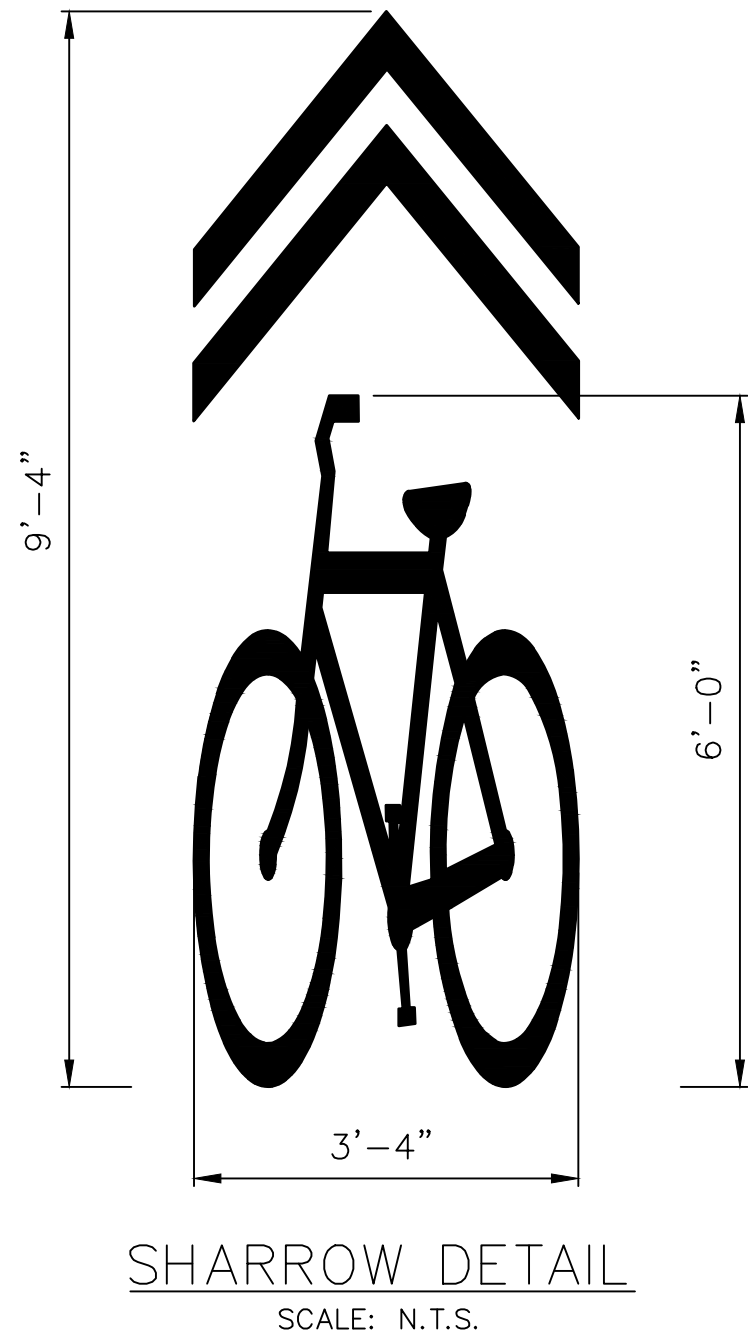
RIDGE = RDG

OTHER ABBREVIATIONS USE MUTCD TABLE 1A-1



STREET SIGN INSTALLATION

NOT TO SCALE



TOWN OF WAKEFIELD PUBLIC WORKS
ALBION STREET

PAVEMENT MARKINGS

DRAWN BY: TWW

DESIGNED BY: TWW

REVIEWED BY: WJR

APPROVED BY: WJR

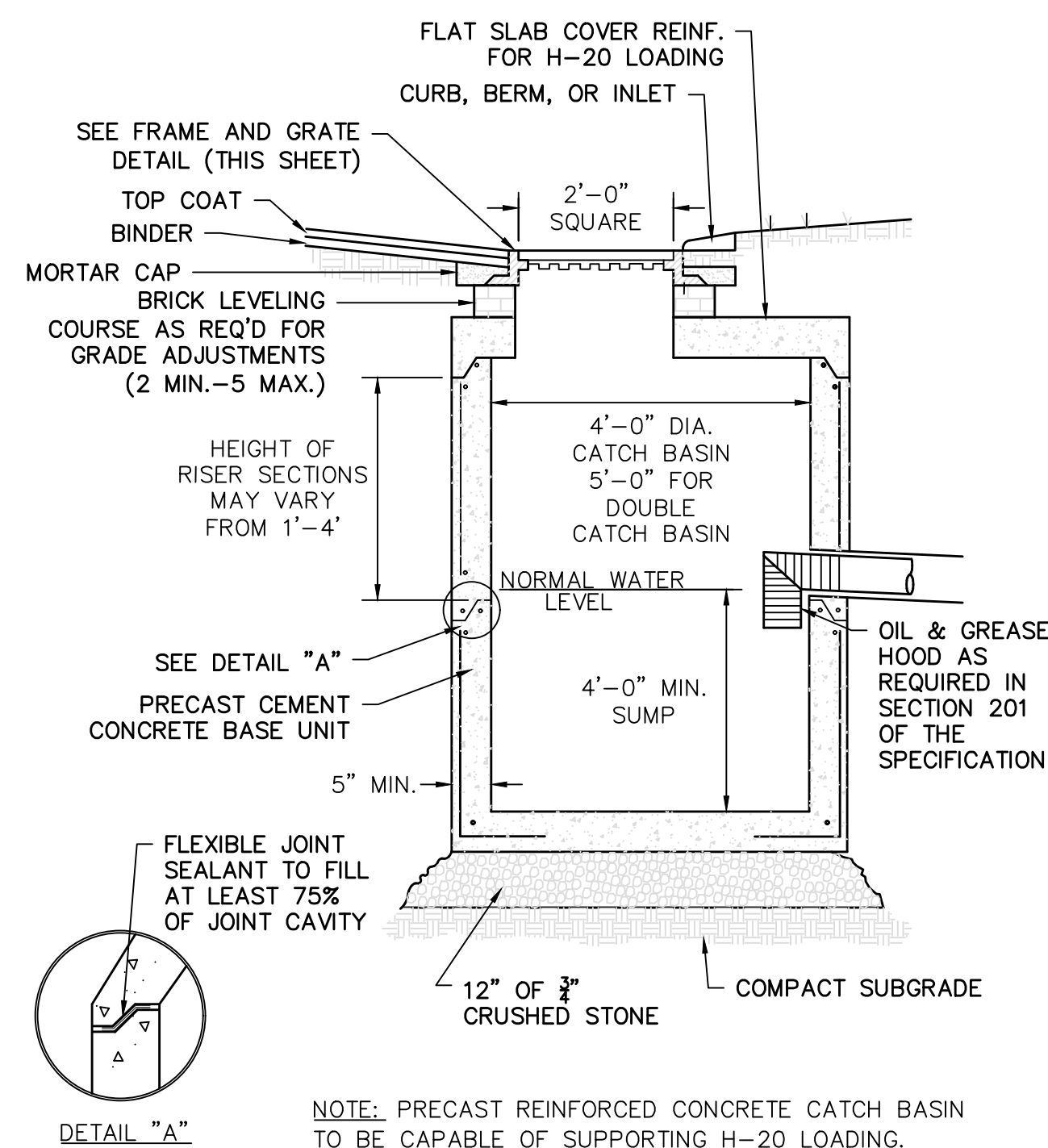
DATE: 11/20/2020

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SCALE: AS NOTED

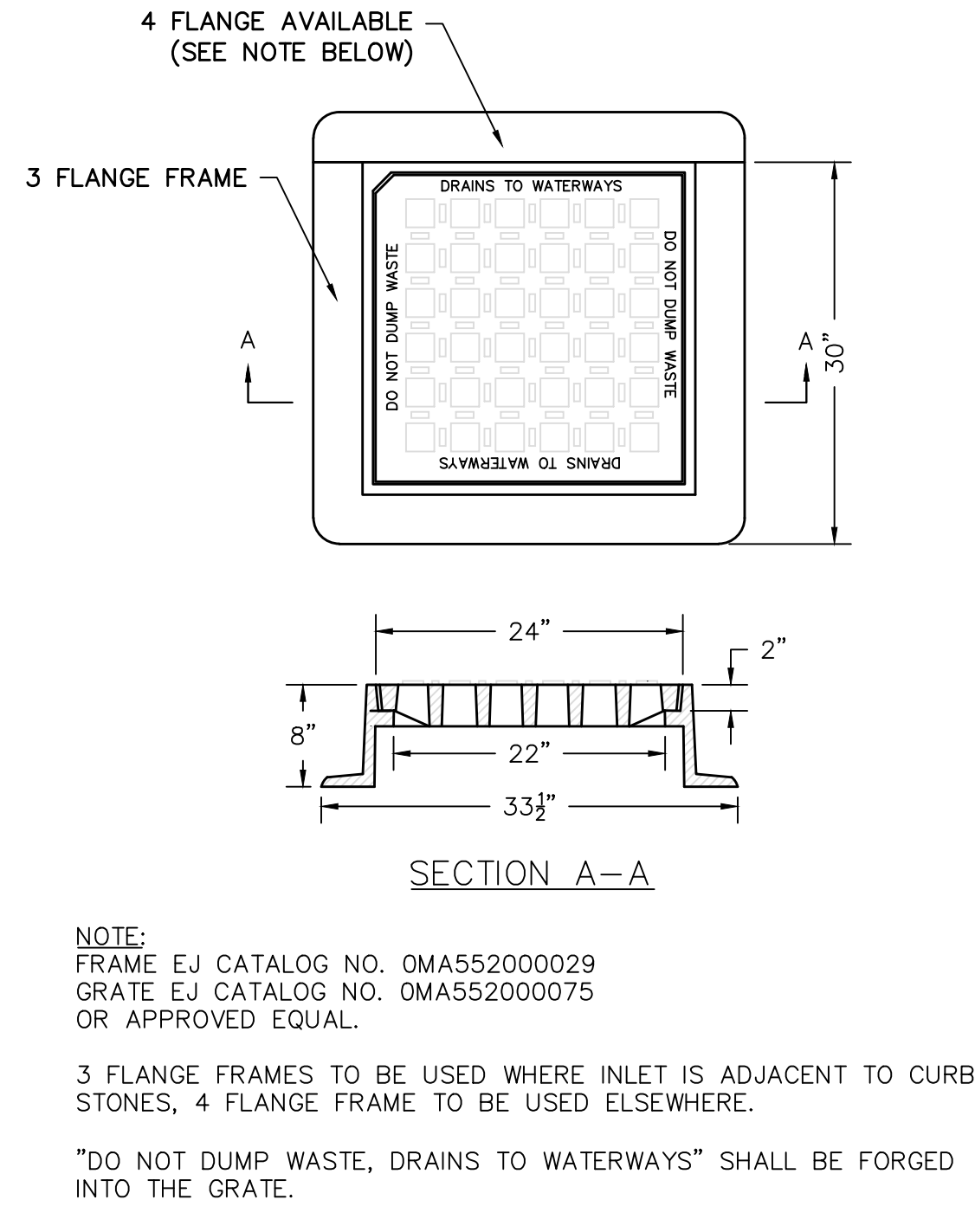
FILE: 10143-ALBIONST

SHEET 9 OF 12



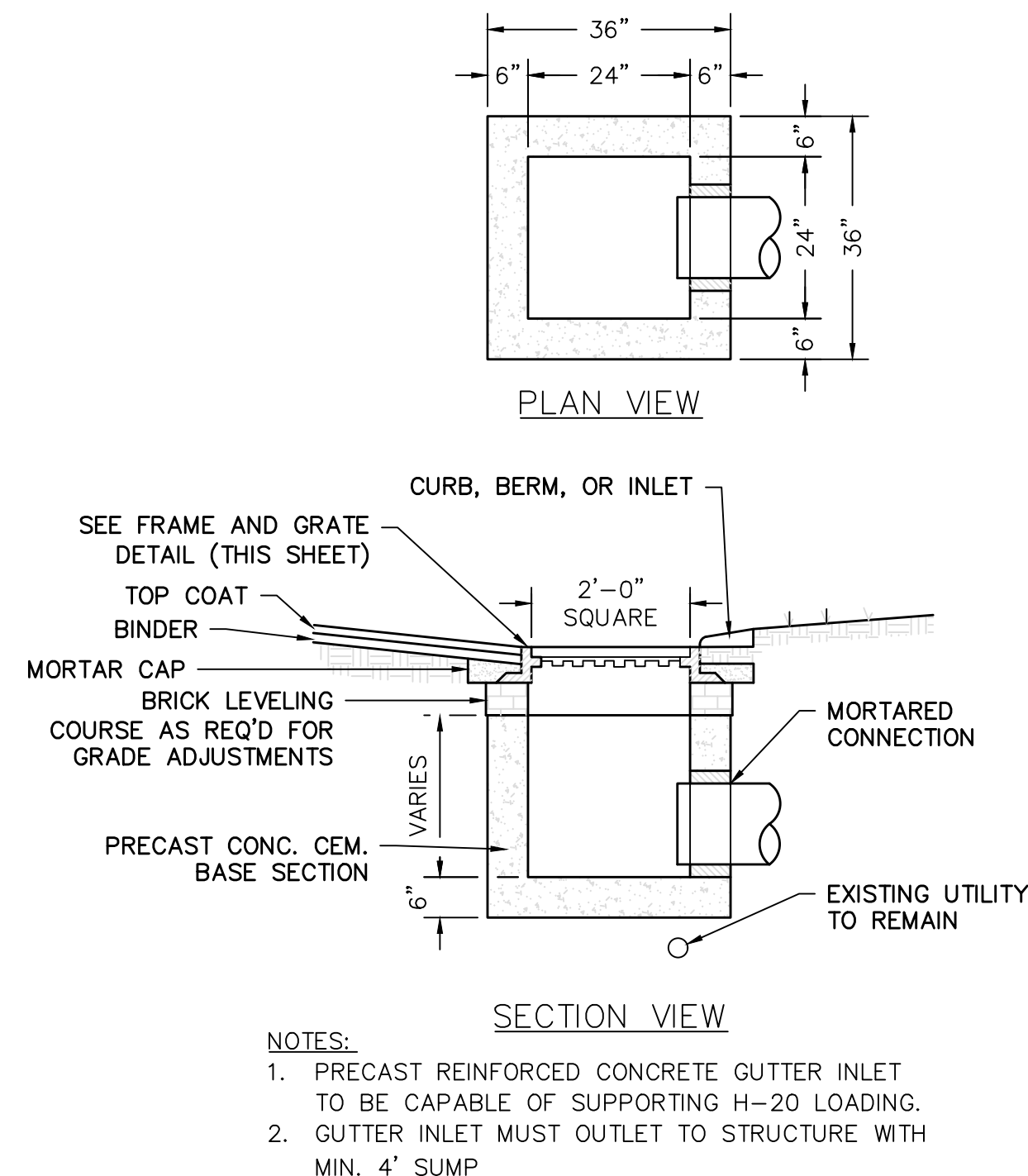
STANDARD CATCH BASIN DETAIL

NOT TO SCALE



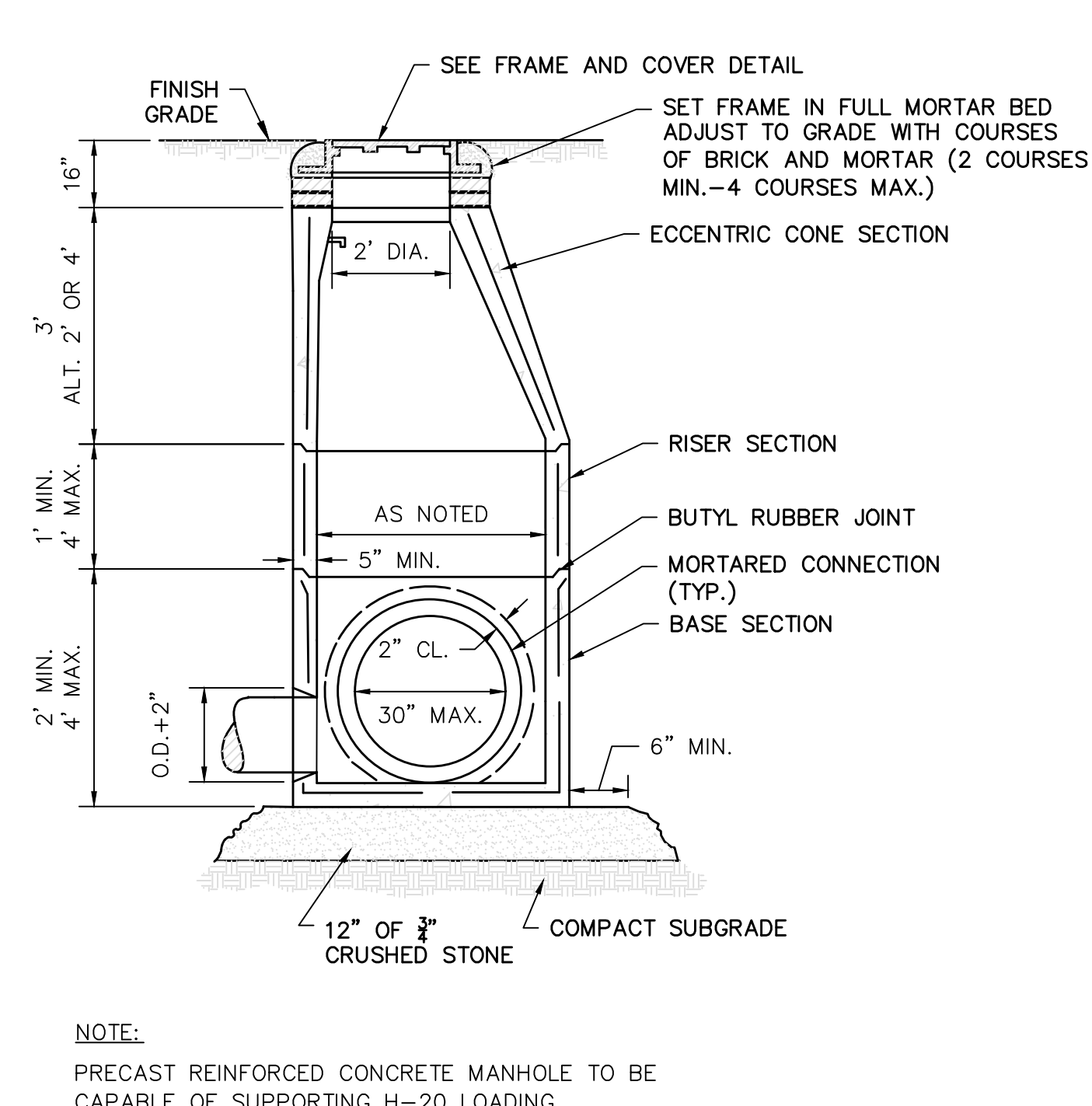
FRAME AND GRATE DETAIL

NOT TO SCALE



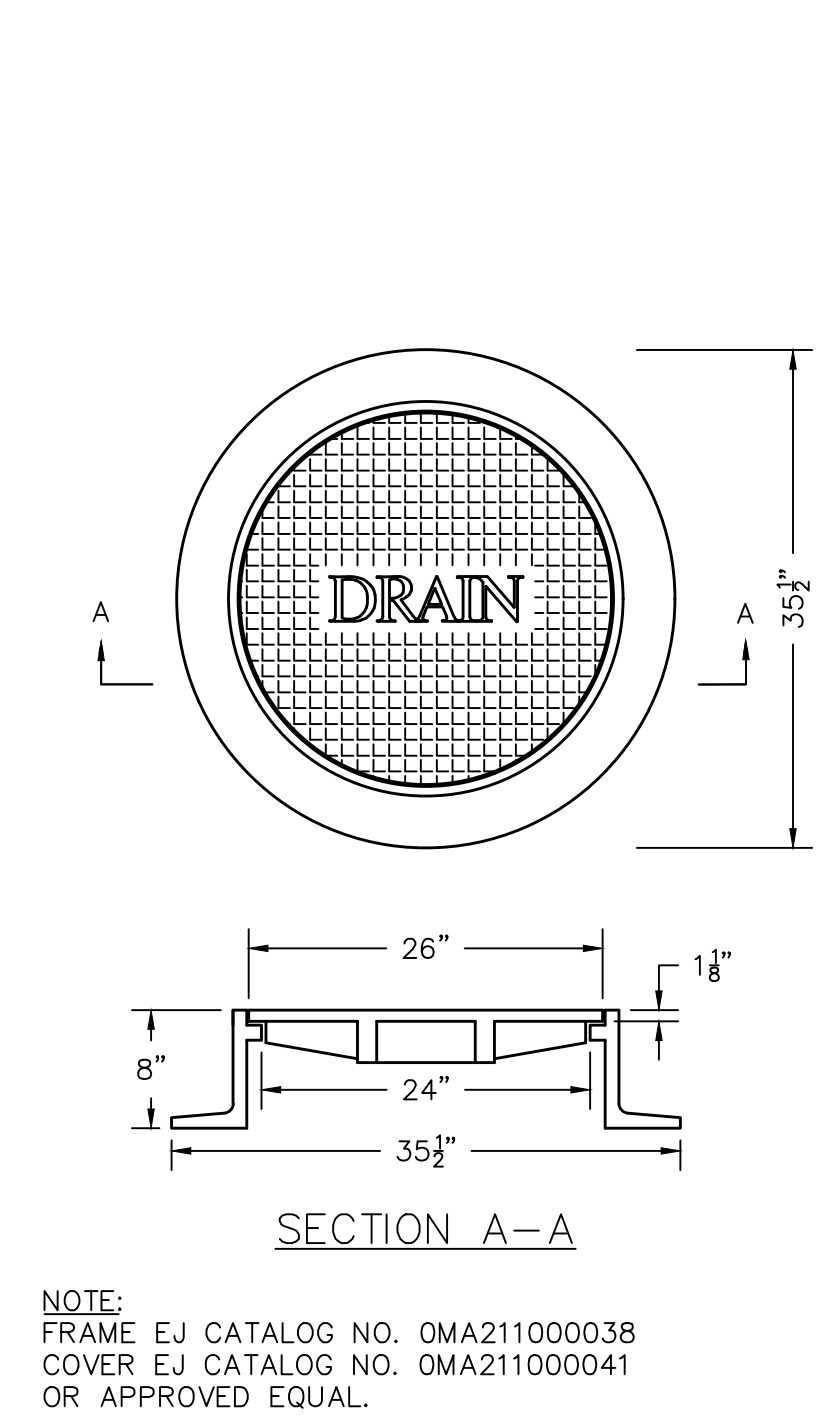
GUTTER INLET DETAIL

NOT TO SCALE



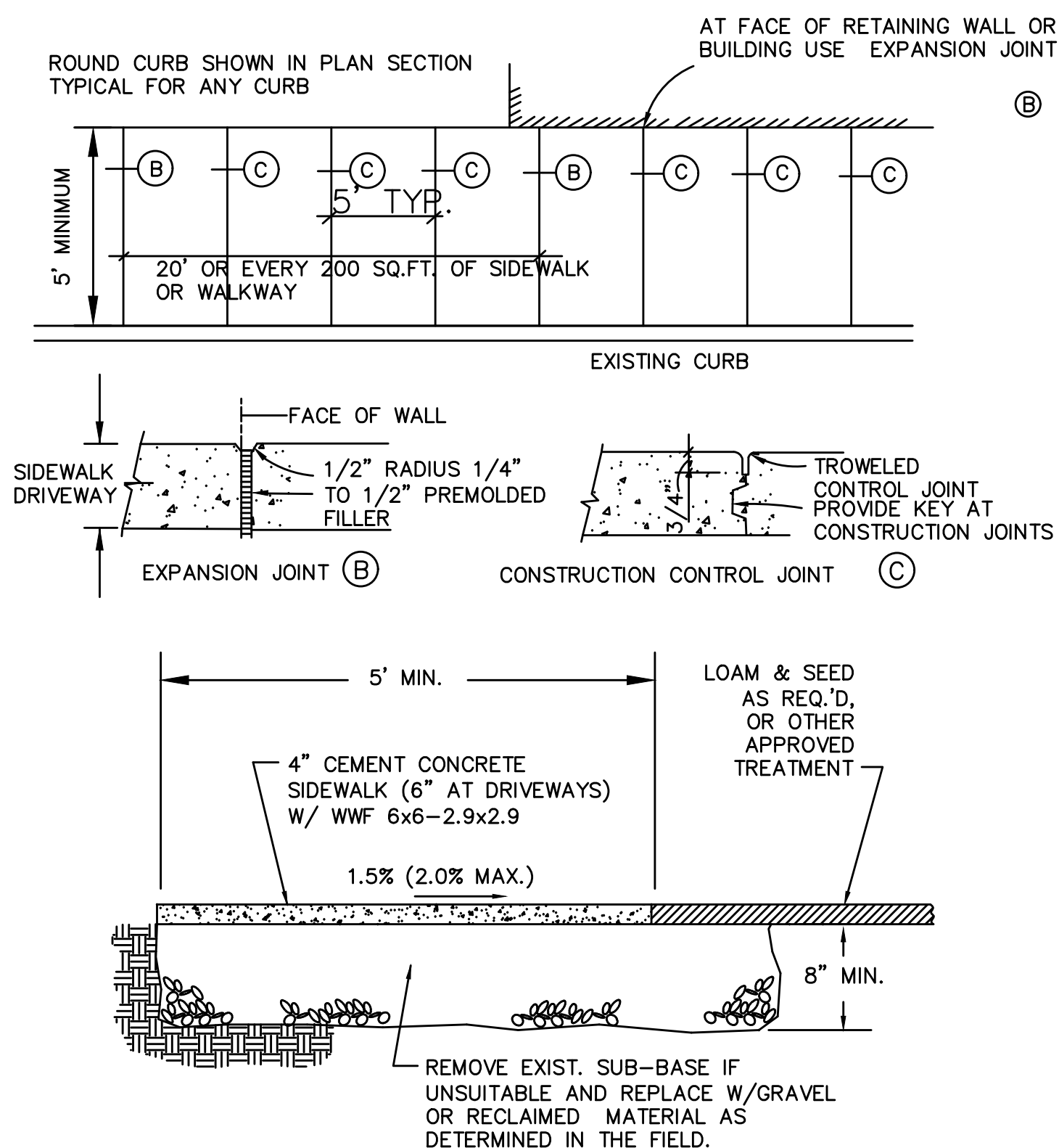
STANDARD DRAIN MANHOLE DETAIL

NOT TO SCALE



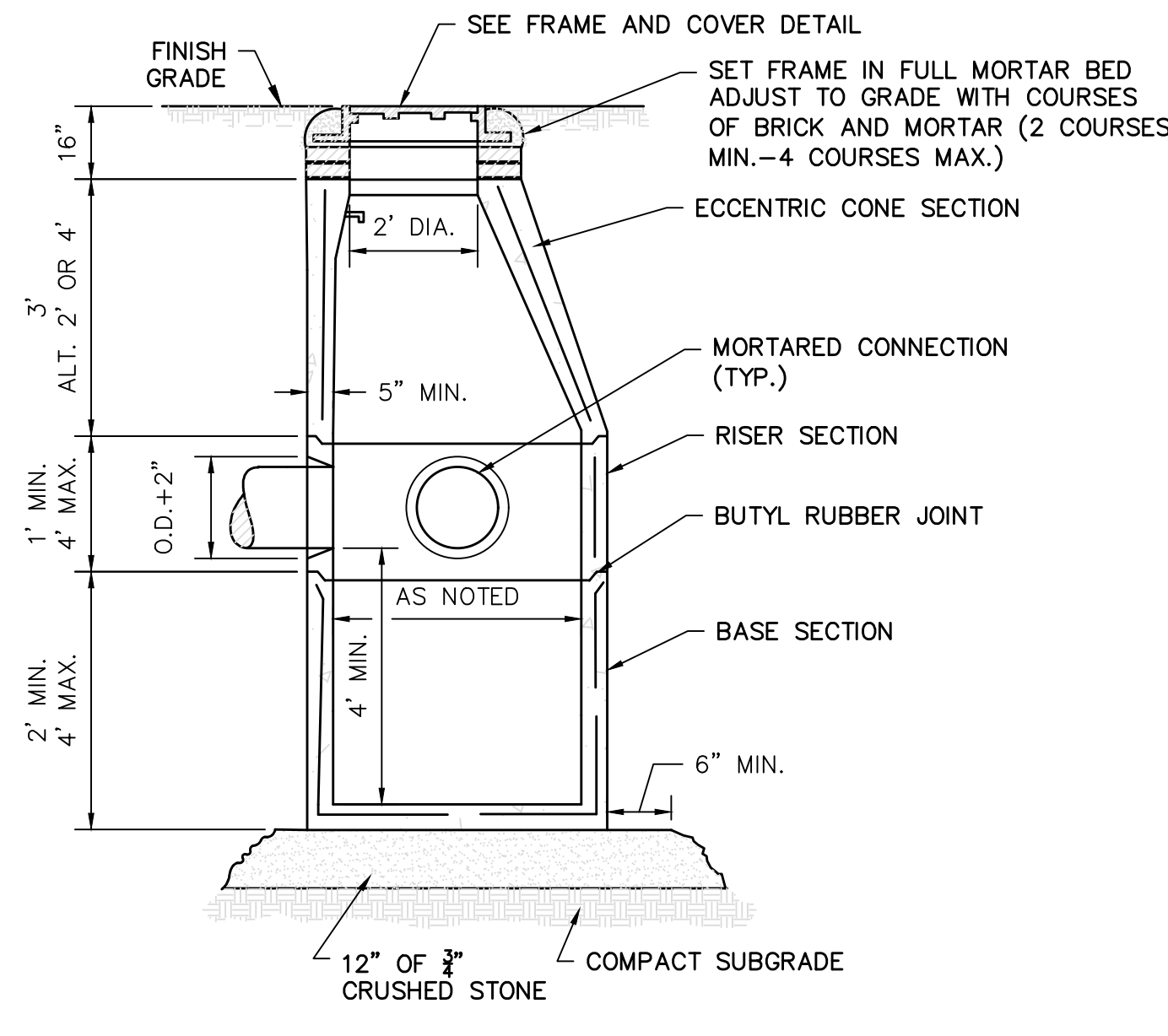
FRAME AND COVER DETAIL

NOT TO SCALE



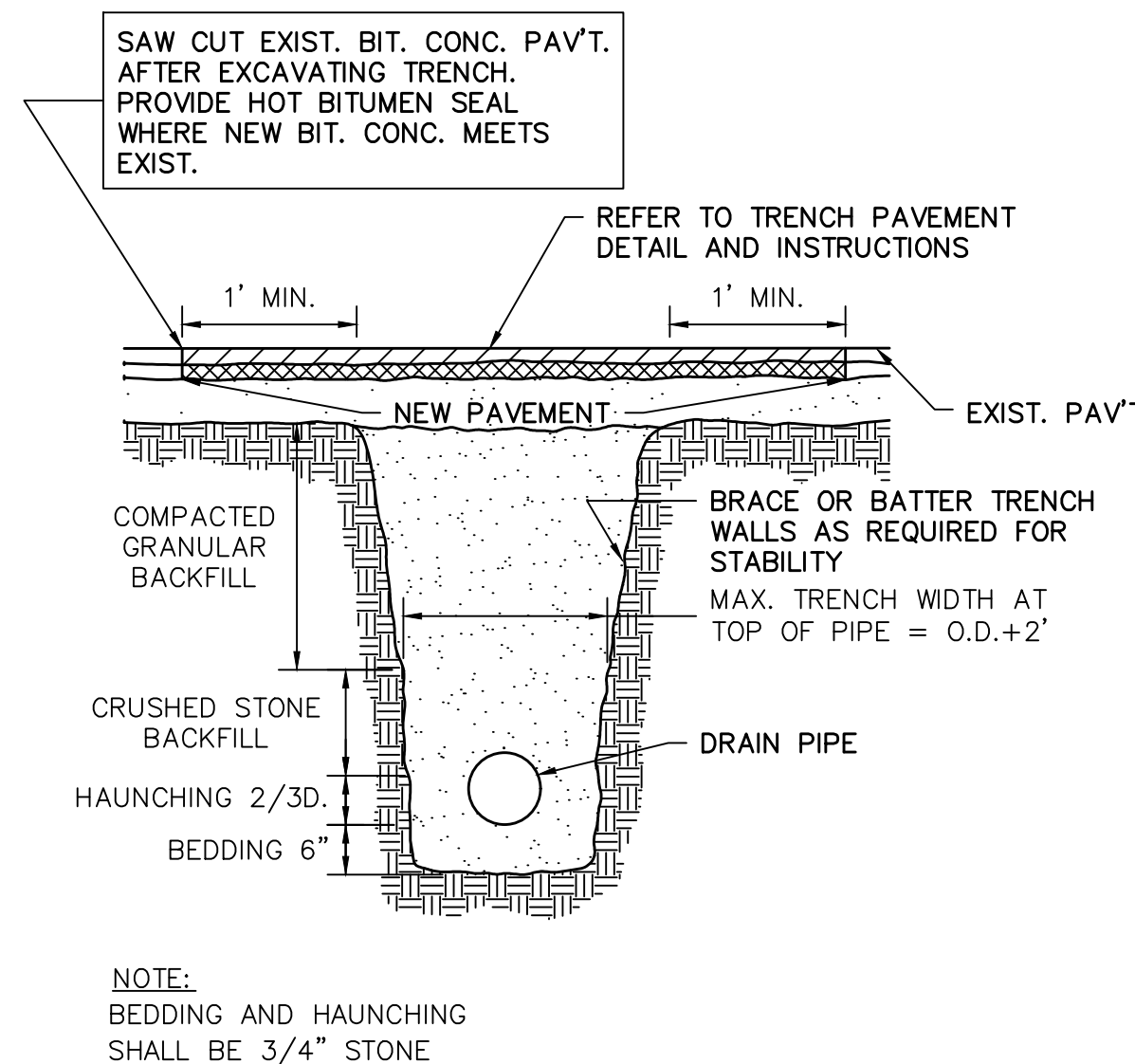
CEMENT CONCRETE SIDEWALK DETAIL

NOT TO SCALE



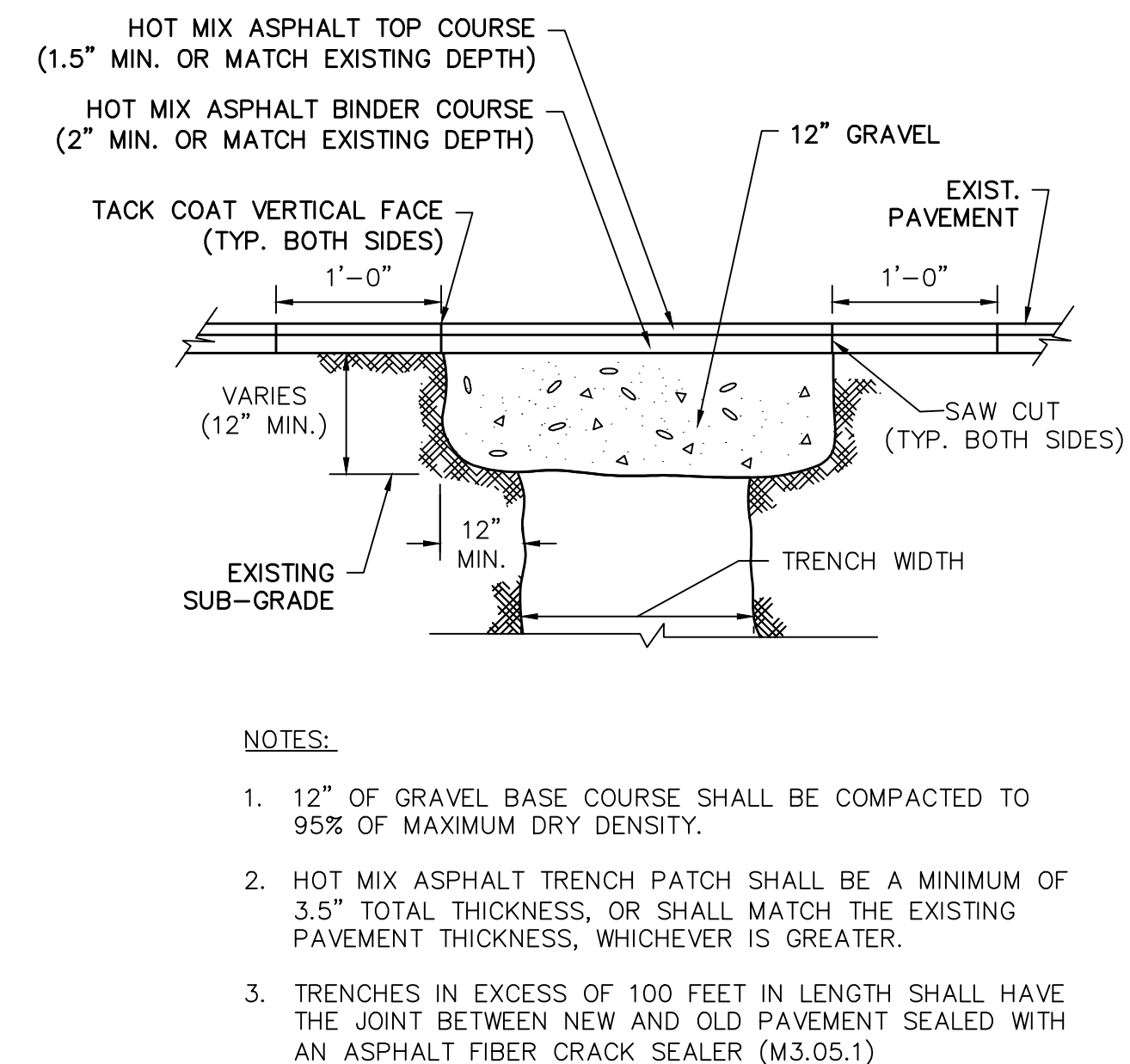
DRAIN MANHOLE W/ SUMP DETAIL

NOT TO SCALE



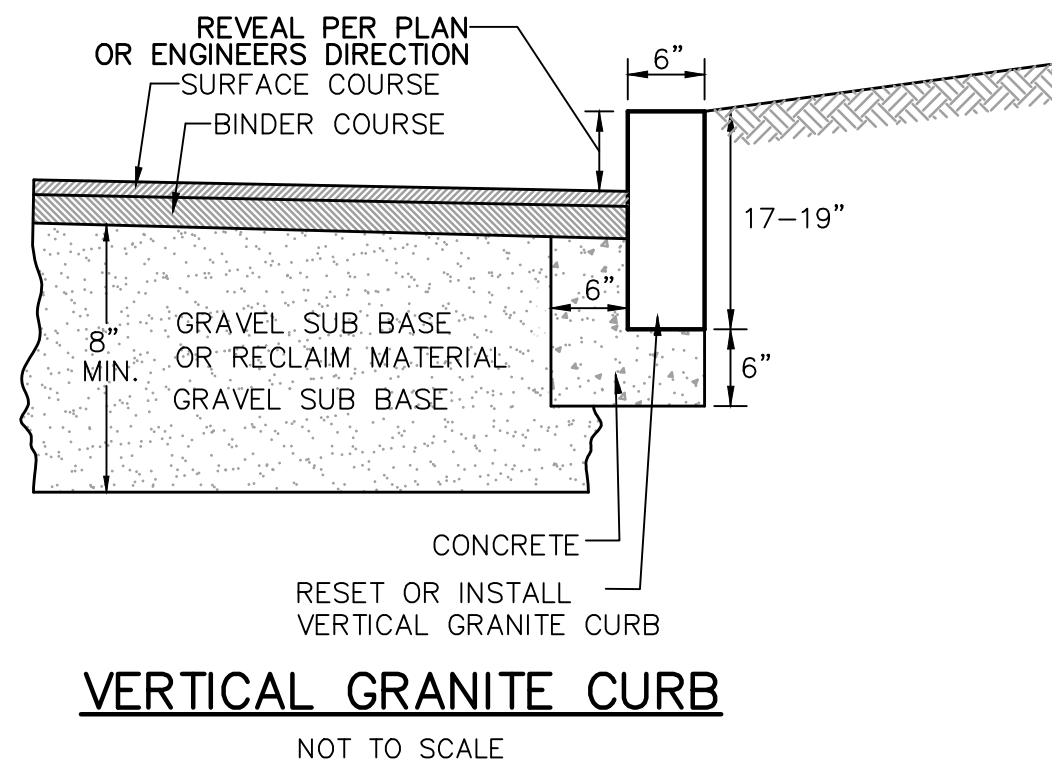
TRENCH FOR DRAIN PIPE DETAIL

NOT TO SCALE



TRENCH PAVEMENT DETAIL

NOT TO SCALE

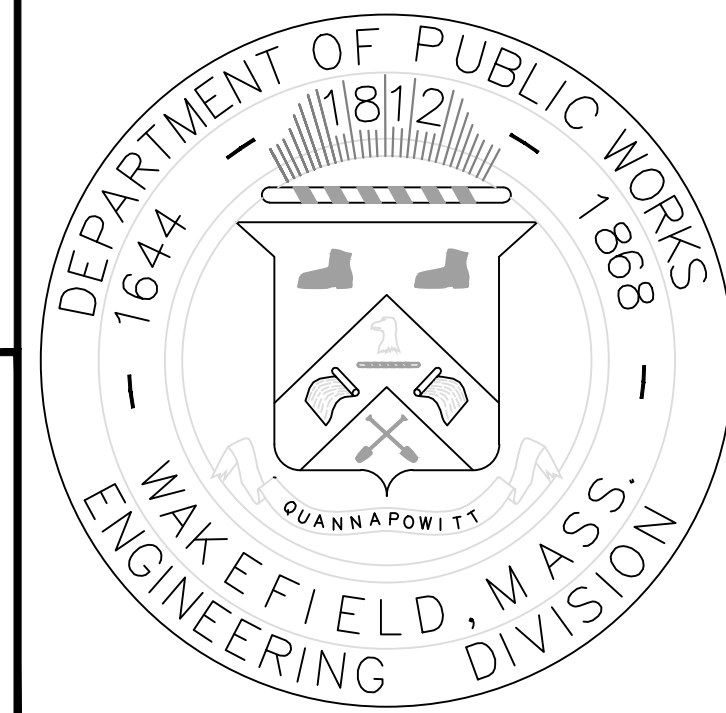


VERTICAL GRANITE CURB

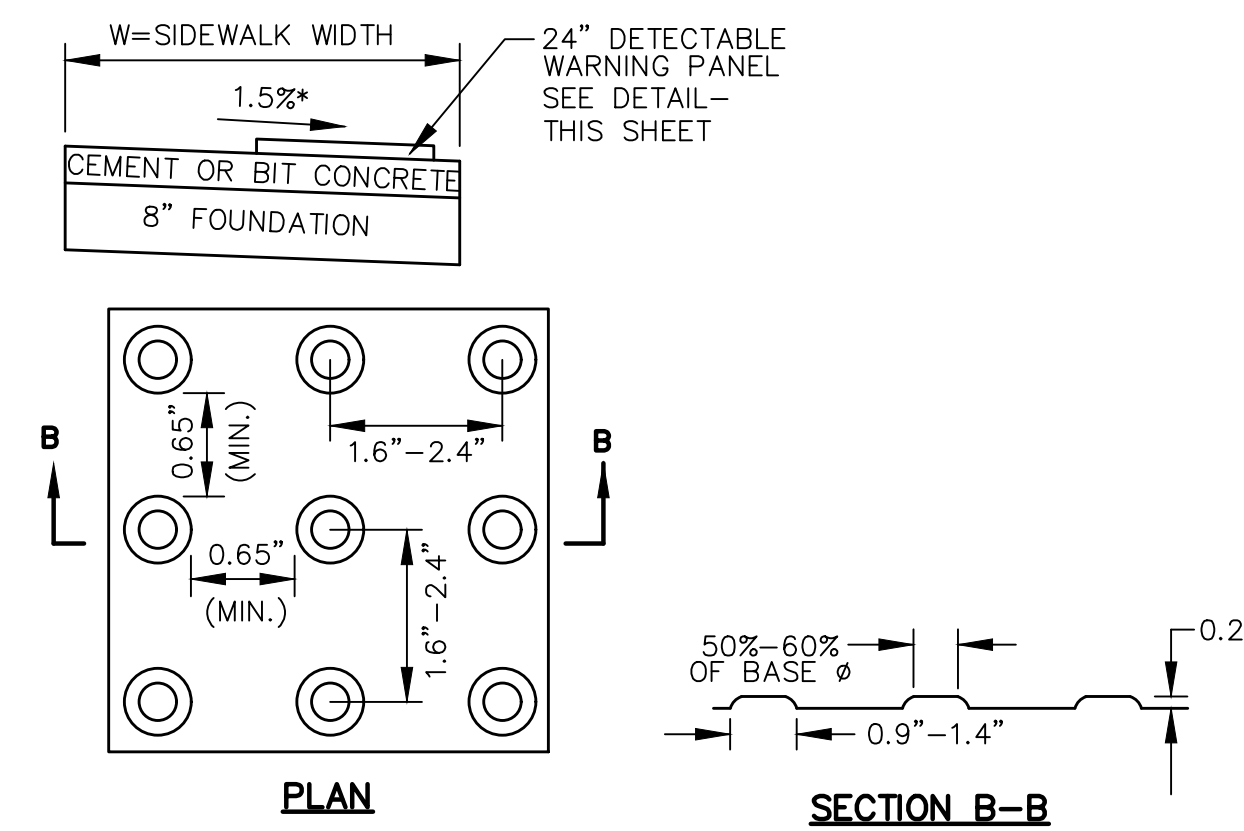
NOT TO SCALE

TOWN OF WAKEFIELD PUBLIC WORKS ALBION STREET

DRAINAGE DETAILS



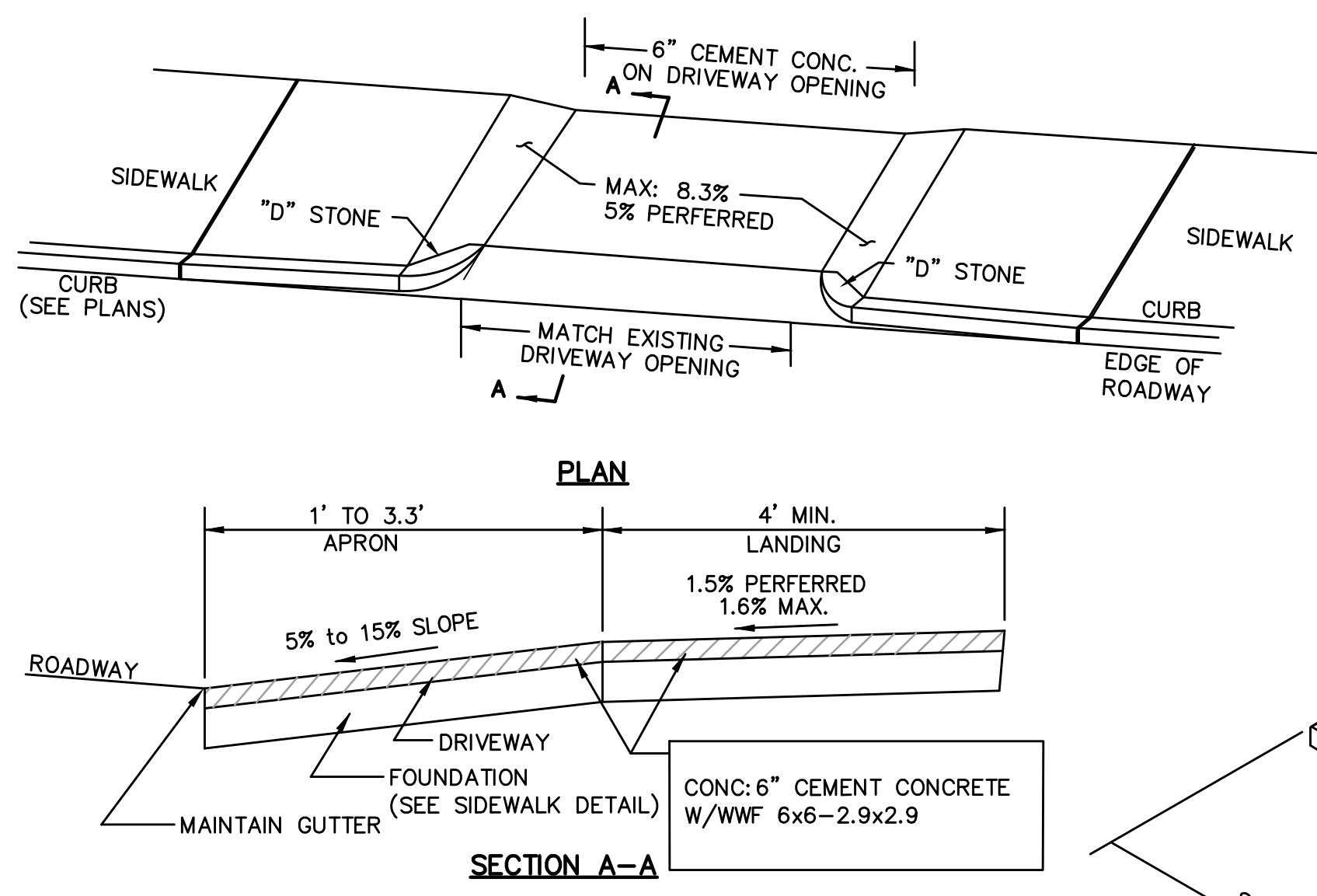
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DESIGNED BY: TWW
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APPROVED BY: WJR
DATE: 11/20/2020
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FILE: 10143-ALBIONST



NOTE:
WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES.

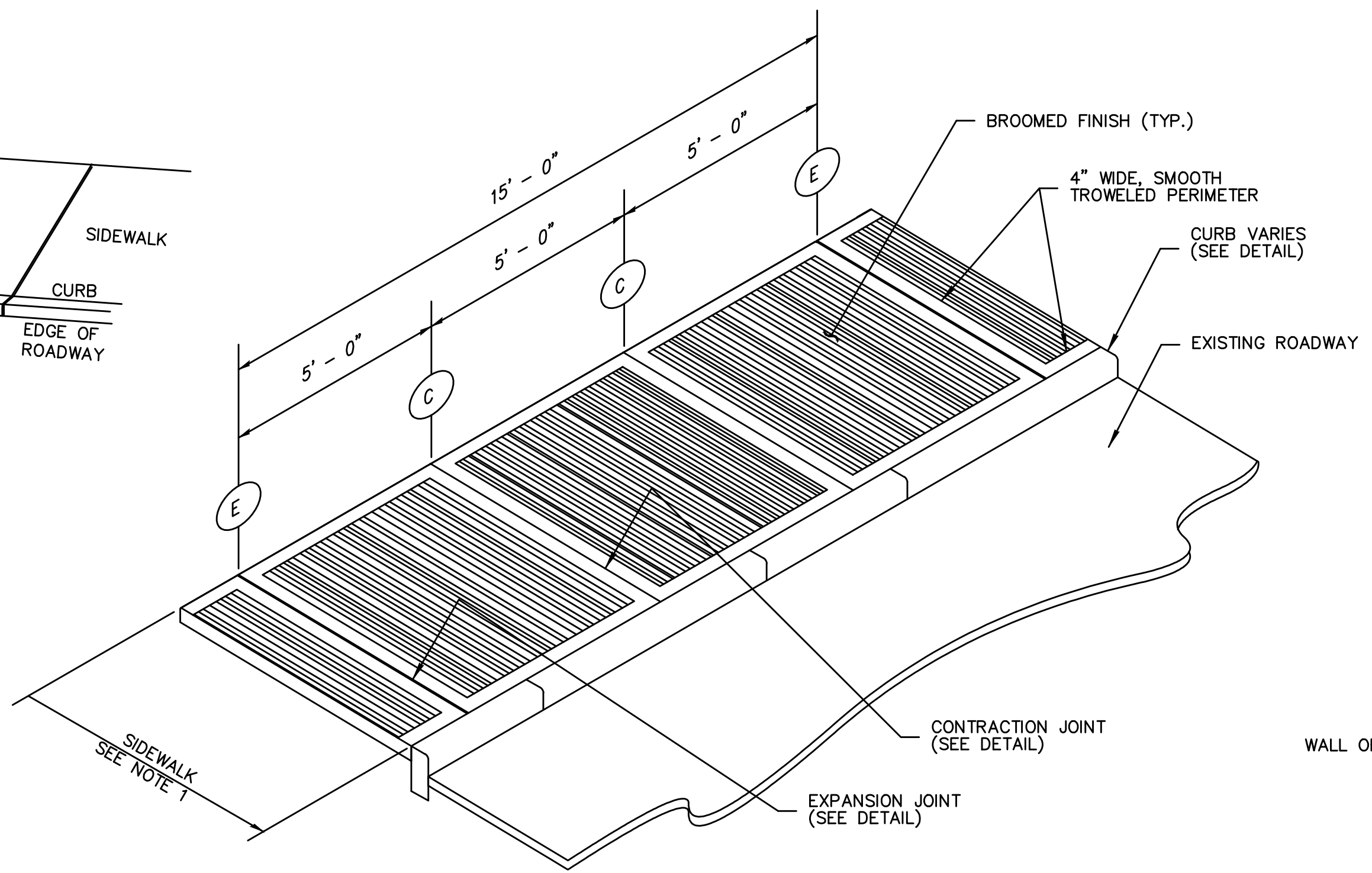
DETECTABLE WARNING PANEL TO BE WEATHERED CAST IRON AS MANUFACTURED BY NEENAH FOUNDRY COMPANY OR APPROVED EQUAL.

DETECTABLE WARNING PANEL
NOT TO SCALE

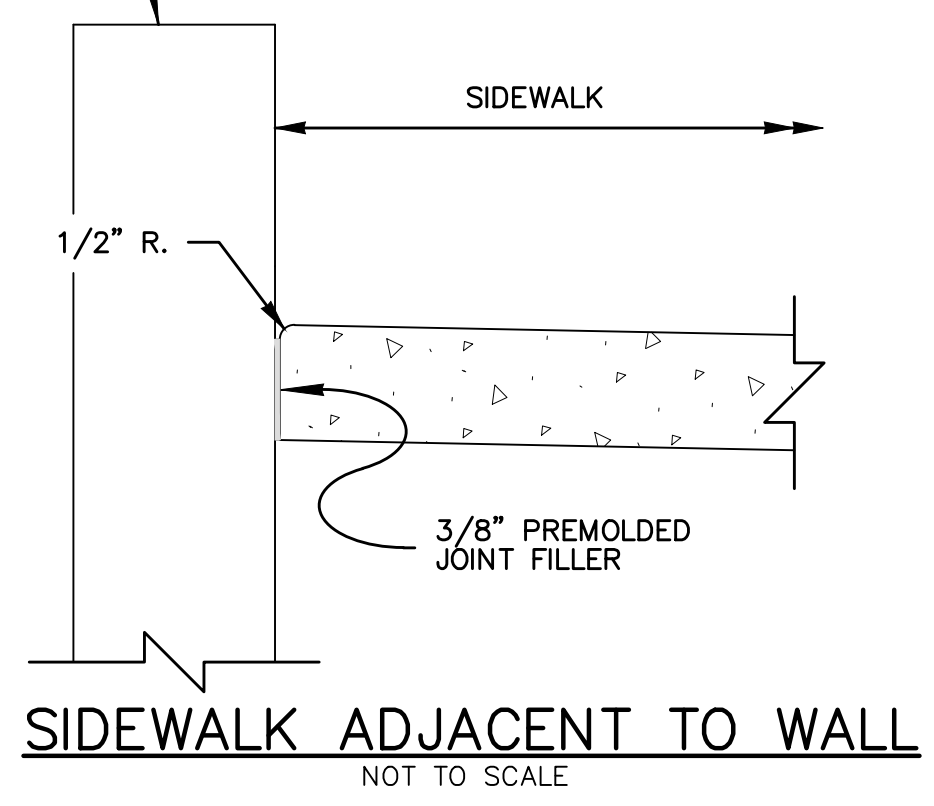
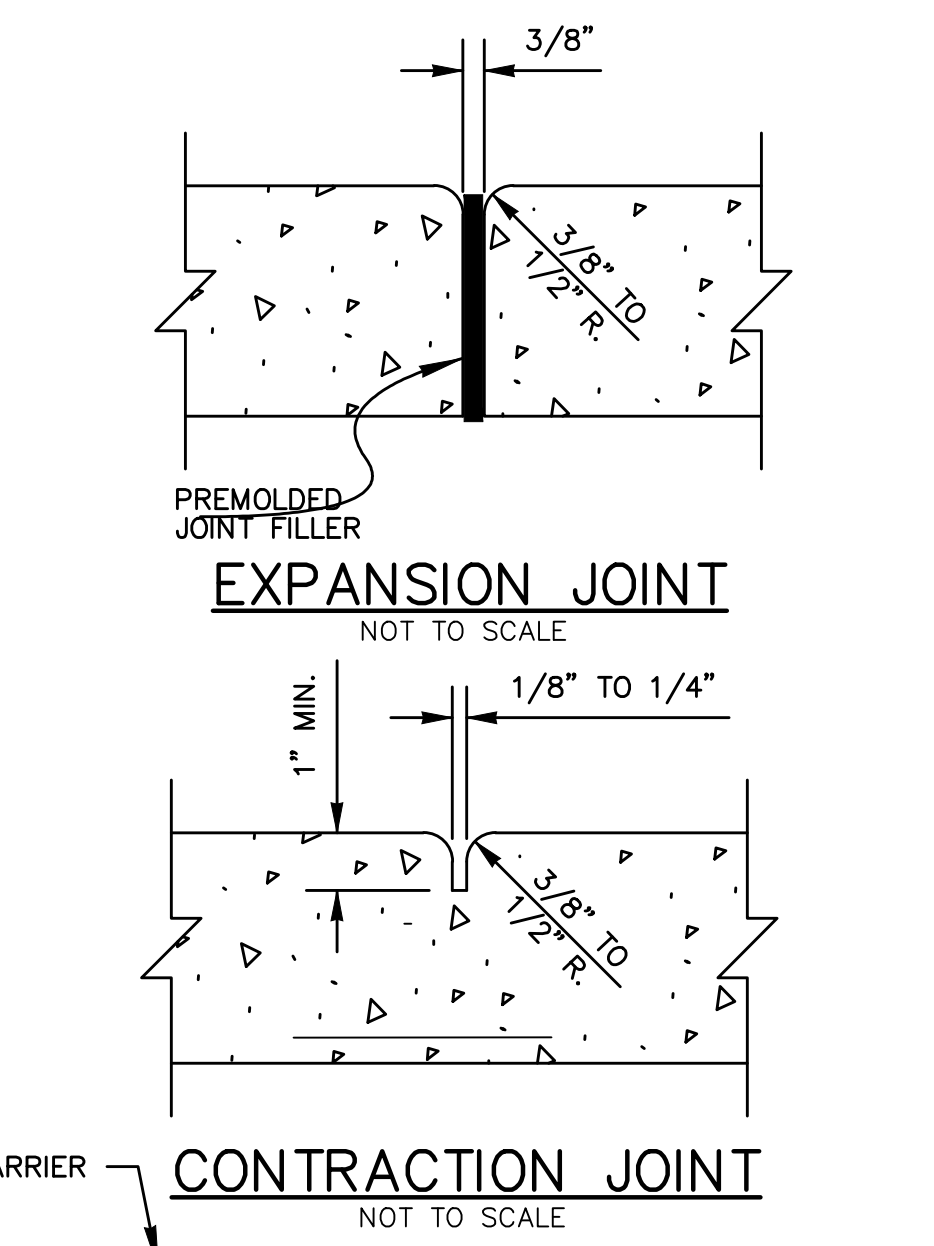


NOTE:
CONTRACTOR SHALL MAINTAIN EXISTING FLOW PATTERNS AT GUTTER LINES AND FLOW LINES AT ALL DRIVEWAYS; THE SIDEWALK THROUGH THE DRIVEWAY SHALL BE ADA COMPLIANT; THE CONTRACTOR MUST VERIFY GRADES AND WIDTHS AS NEEDED.

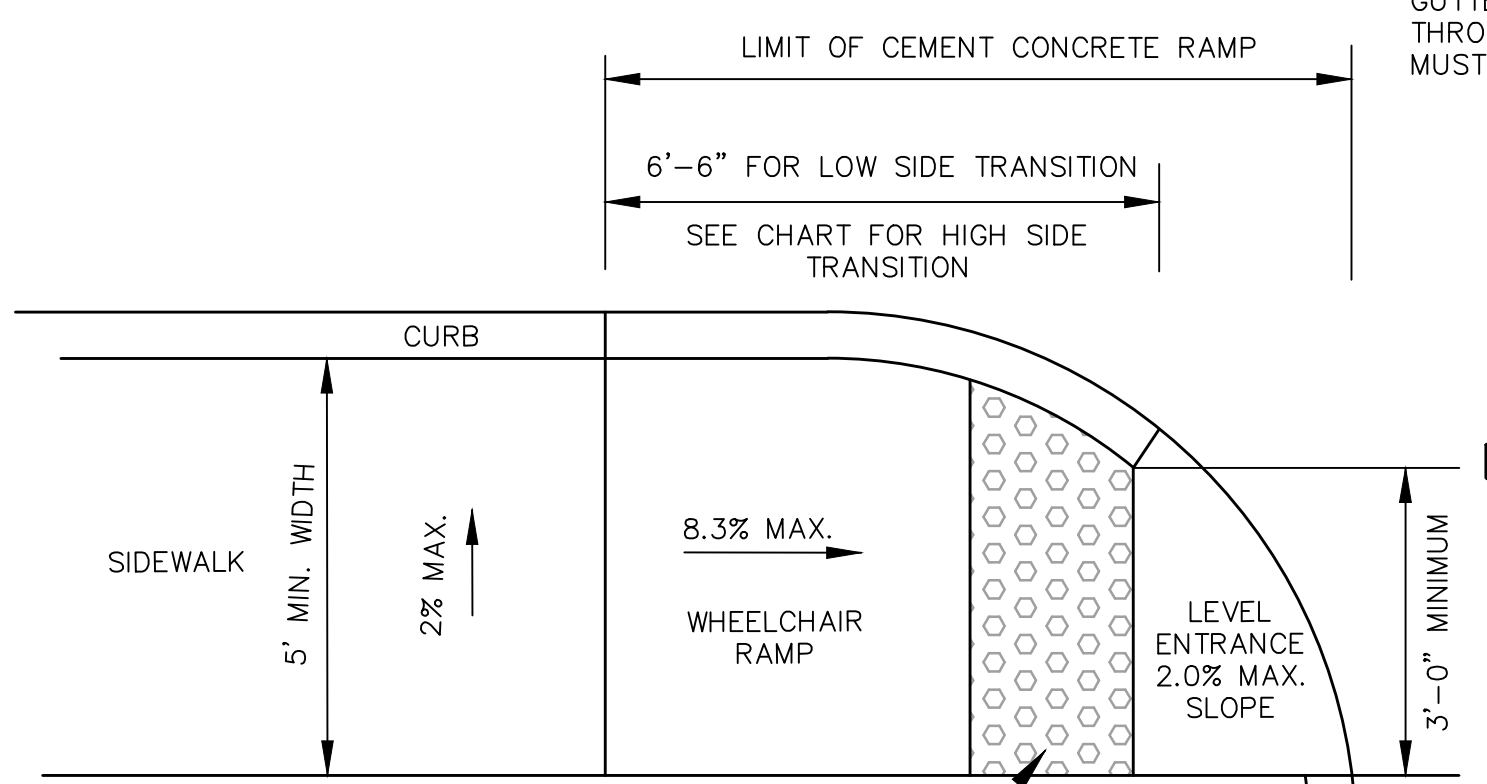
TYPICAL DRIVEWAY
NOT TO SCALE



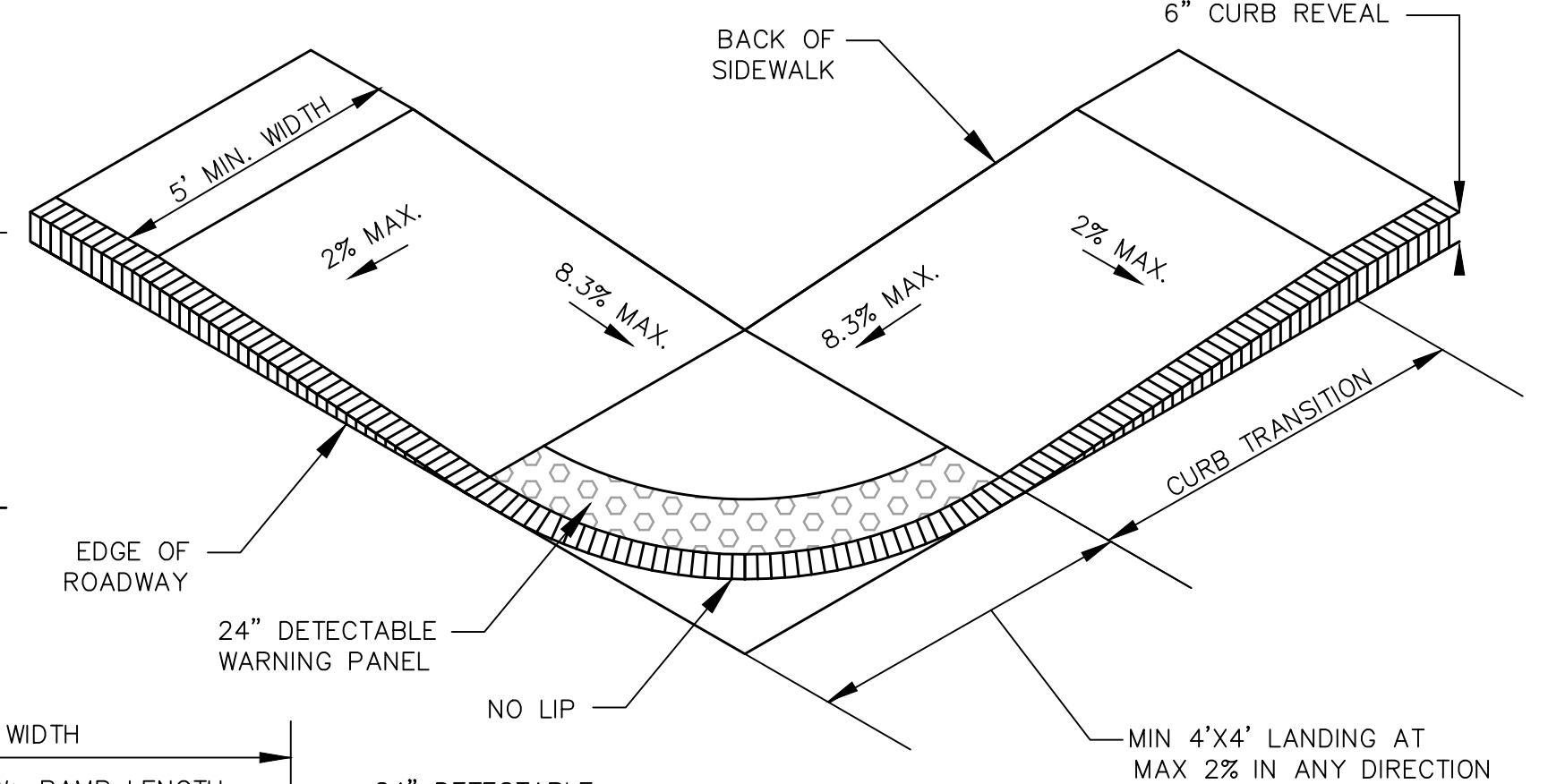
CONCRETE SIDEWALK ISOMETRIC VIEW
NOT TO SCALE



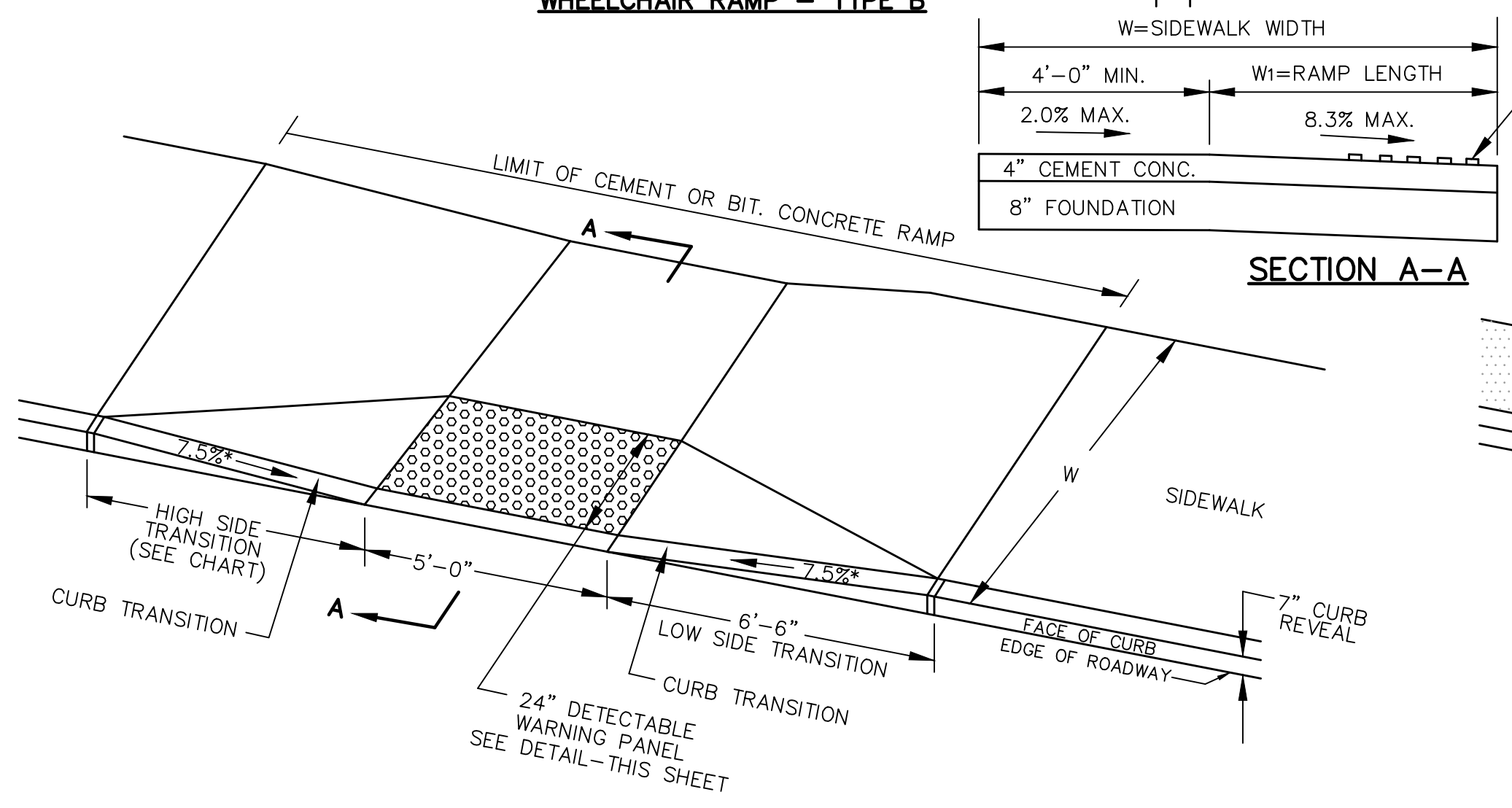
SIDEWALK ADJACENT TO WALL
NOT TO SCALE



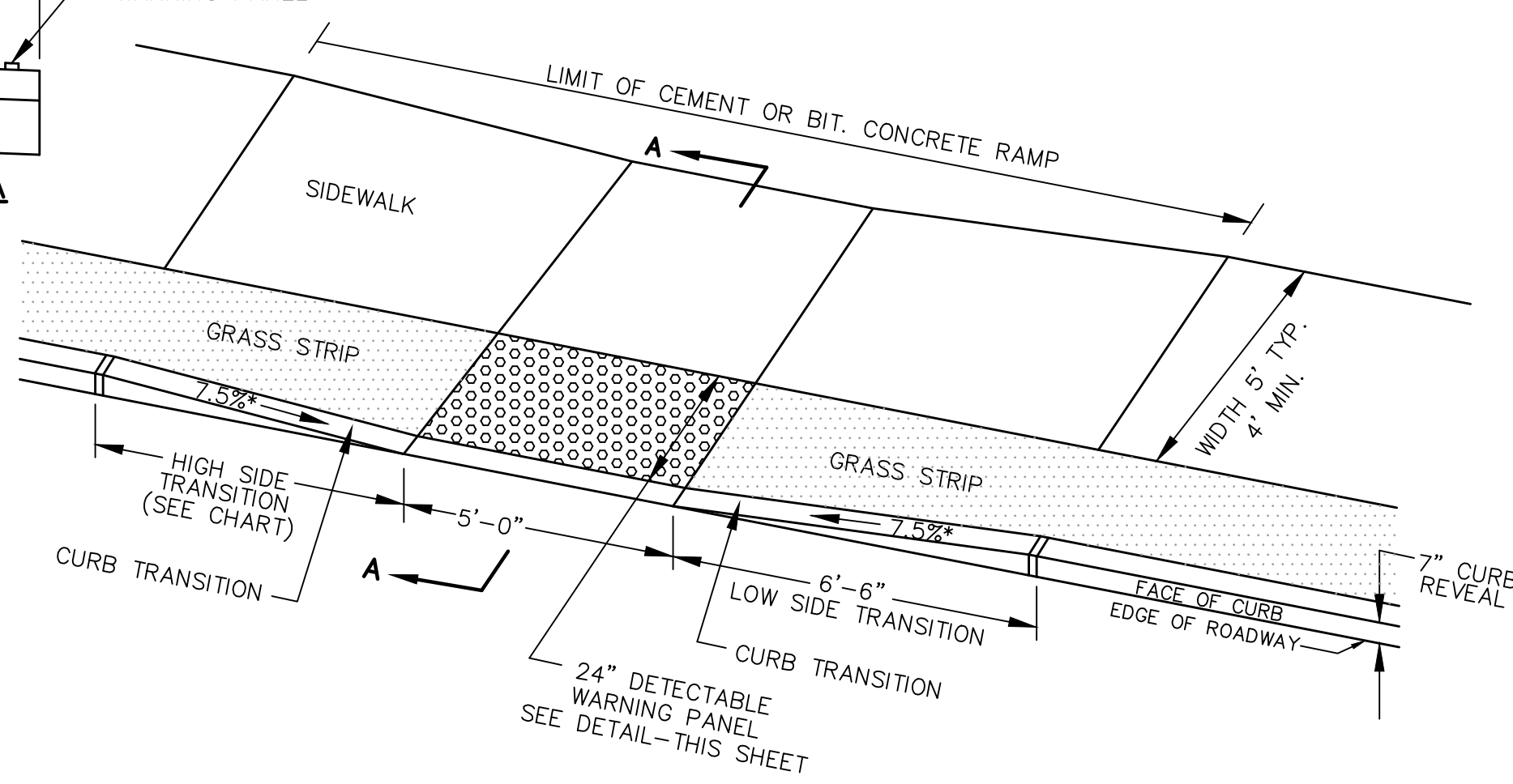
WHEELCHAIR RAMP - TYPE B



WHEELCHAIR RAMP - TYPE C



WHEELCHAIR RAMP - TYPE A



WHEELCHAIR RAMP - TYPE D

- NOTES:**
1. THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.
 2. RAMP CROSS SECTION TO BE SAME AS ADJACENT SIDEWALK; e.g DEPTH OF SURFACES.
 3. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
 4. IN NO CASE ARE THE RAMPS TO BE PLACED BEHIND THE STOP LINE.
 5. SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE RAMPED TO MEET THE GRADE OF THE DRIVEWAY.
- * THESE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE.

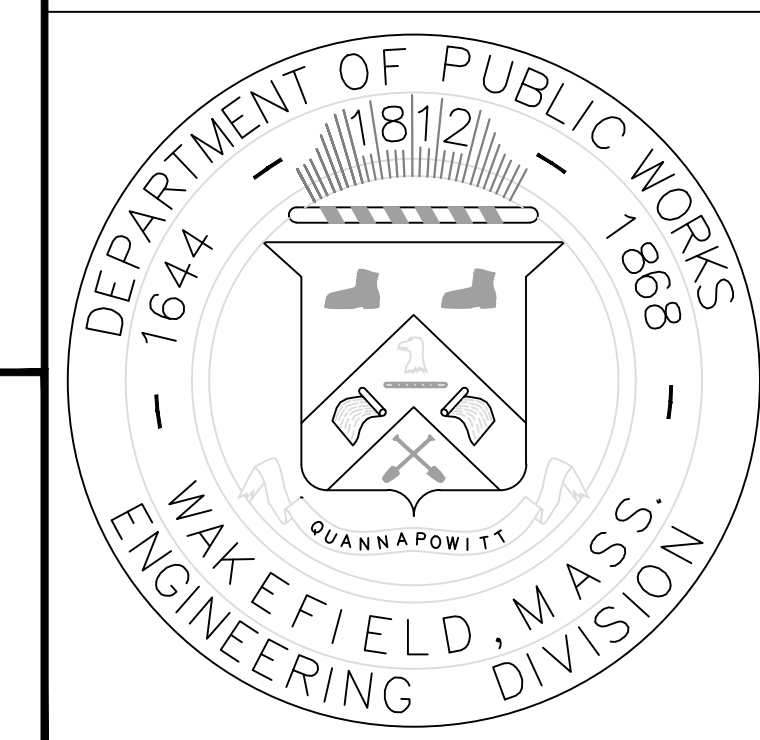
CONCRETE WHEELCHAIR RAMPS
NOT TO SCALE

ROADWAY PROFILE GRADE (%)	HIGH SIDE TRANSITION LENGTH
0	6'-6"
>0-1	7'-8"
>1-2	9'-0"
>2-3	11'-0"
>3-4	14'-0"
>4	15'-0" (MAX.)

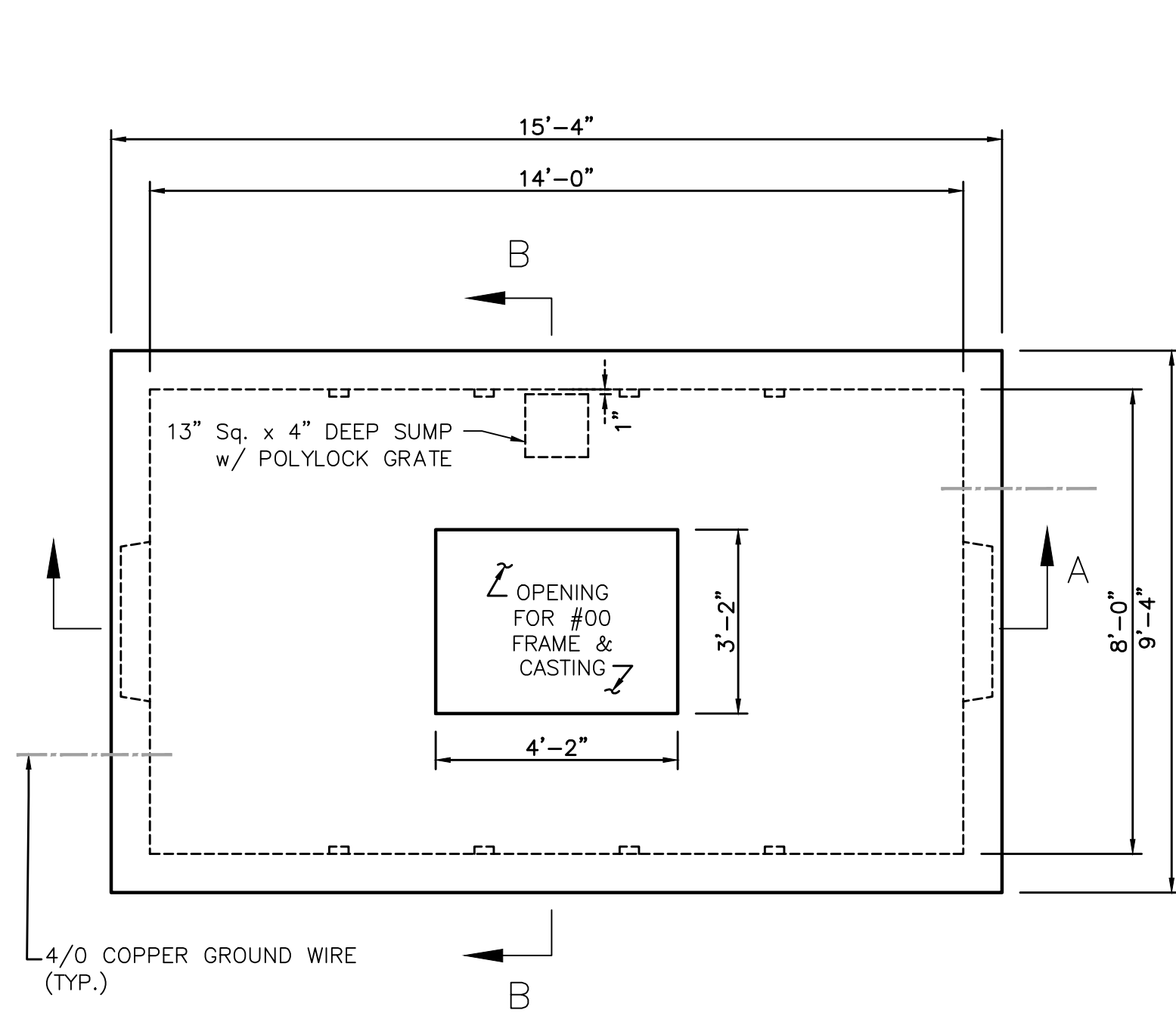
* BASED ON A DESIGN SLOPE OF 7.5% AND 6" OF CURB REVEAL

**TOWN OF WAKEFIELD PUBLIC WORKS
ALBION STREET**

SIDEWALK DETAILS



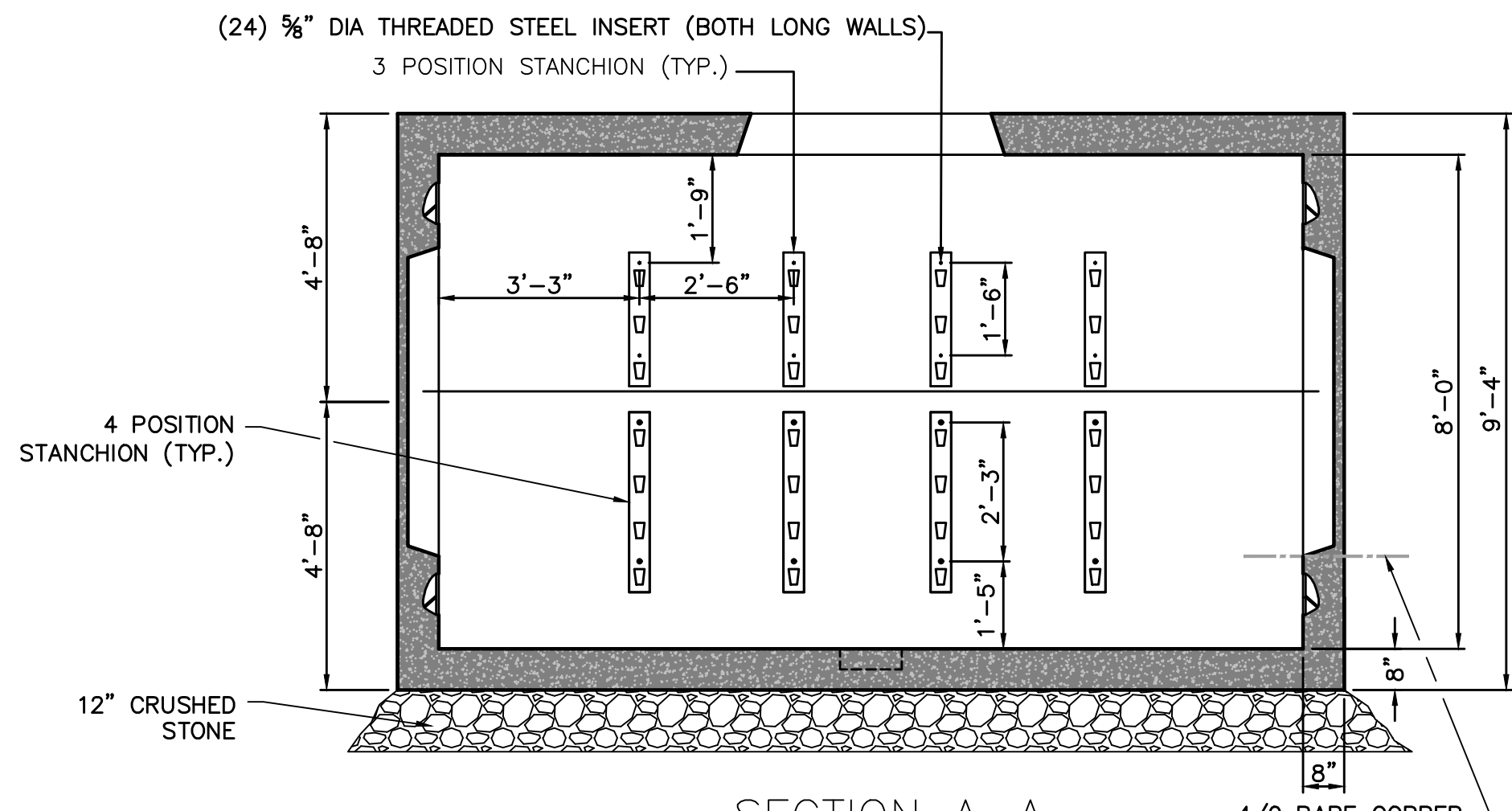
DRAWN BY: TWW
DESIGNED BY: TWW
REVIEWED BY: WJR
APPROVED BY: WJR
DATE: 11/20/2020
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SCALE: AS NOTED
FILE: 10143-ALBIONST



PLAN

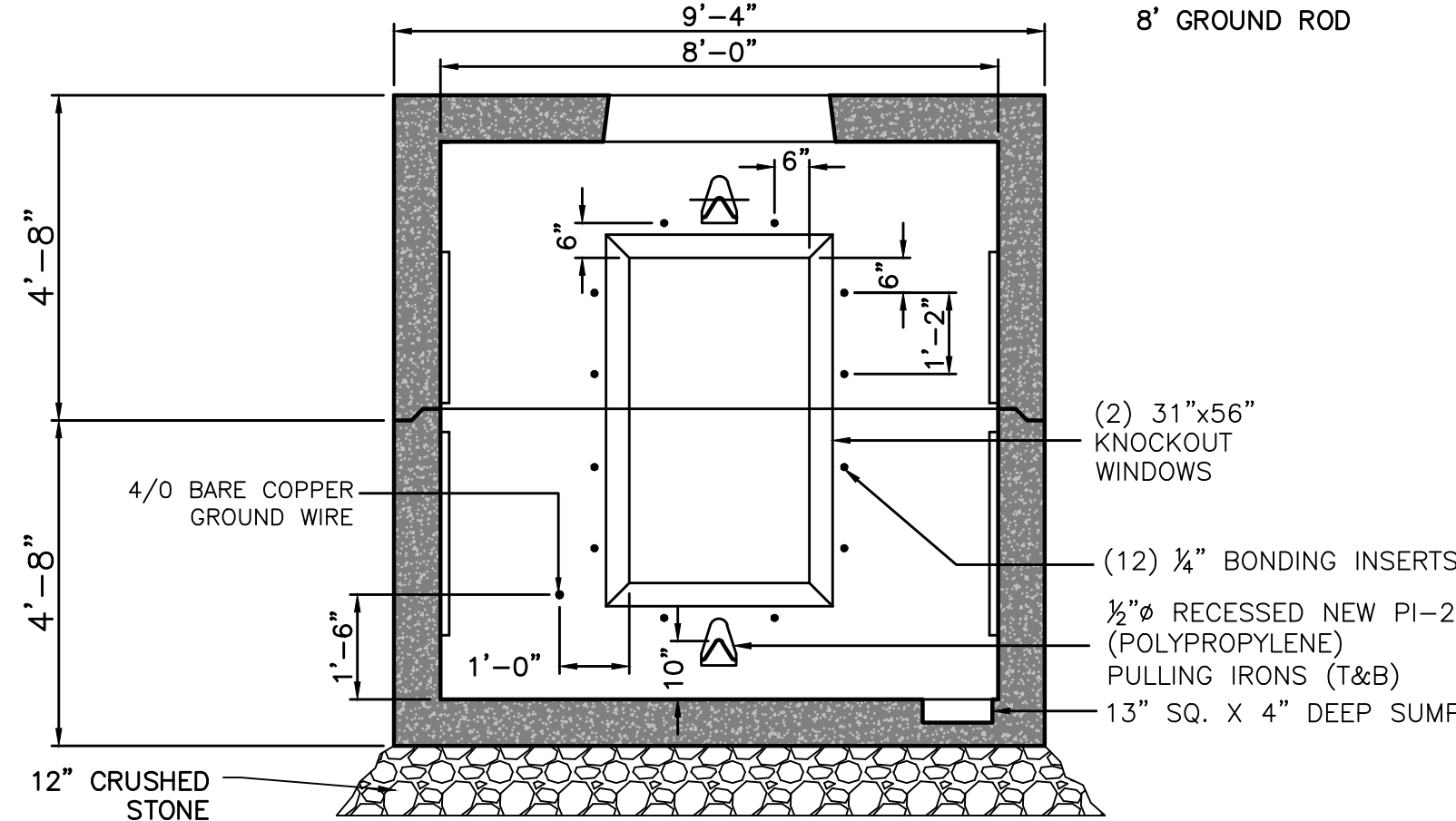
NOTES:

1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGN LOADING: AASHTO HS20-44, 0 TO 5 FEET COVER.
3. DESIGN SPECIFICATIONS - ACI 318 & AASHTO LOAD FACTOR DESIGN METHOD.
4. STEEL REINFORCEMENT CONFORMS TO ASTM A615, GRADE 60. MINIMUM STEEL COVER 1 1/2".
5. ALL TERMINATORS SHALL HAVE BELL ENDS FLUSH WITH THE INSIDE WALL.
6. CONSTRUCTION JOINT SHALL BE SEALED WITH 1" BUTYL RUBBER OR APPROVED EQUAL.
7. RACKING/STANCHIONS INSTALLED BY CONTRACTOR TO BE UNDERGROUND DEVICES, INC. PART NUMBERS CR24-B AND CR36-B OR APPROVED EQUAL.
8. TWO (2) 8" GROUND RODS TO BE INSTALLED BY THE CONTRACTOR AND CONNECTED TO 4/0 BARE COPPER GROUND WIRE.



SECTION A-A

OPPOSITE WALLS ARE MIRROR IMAGES.

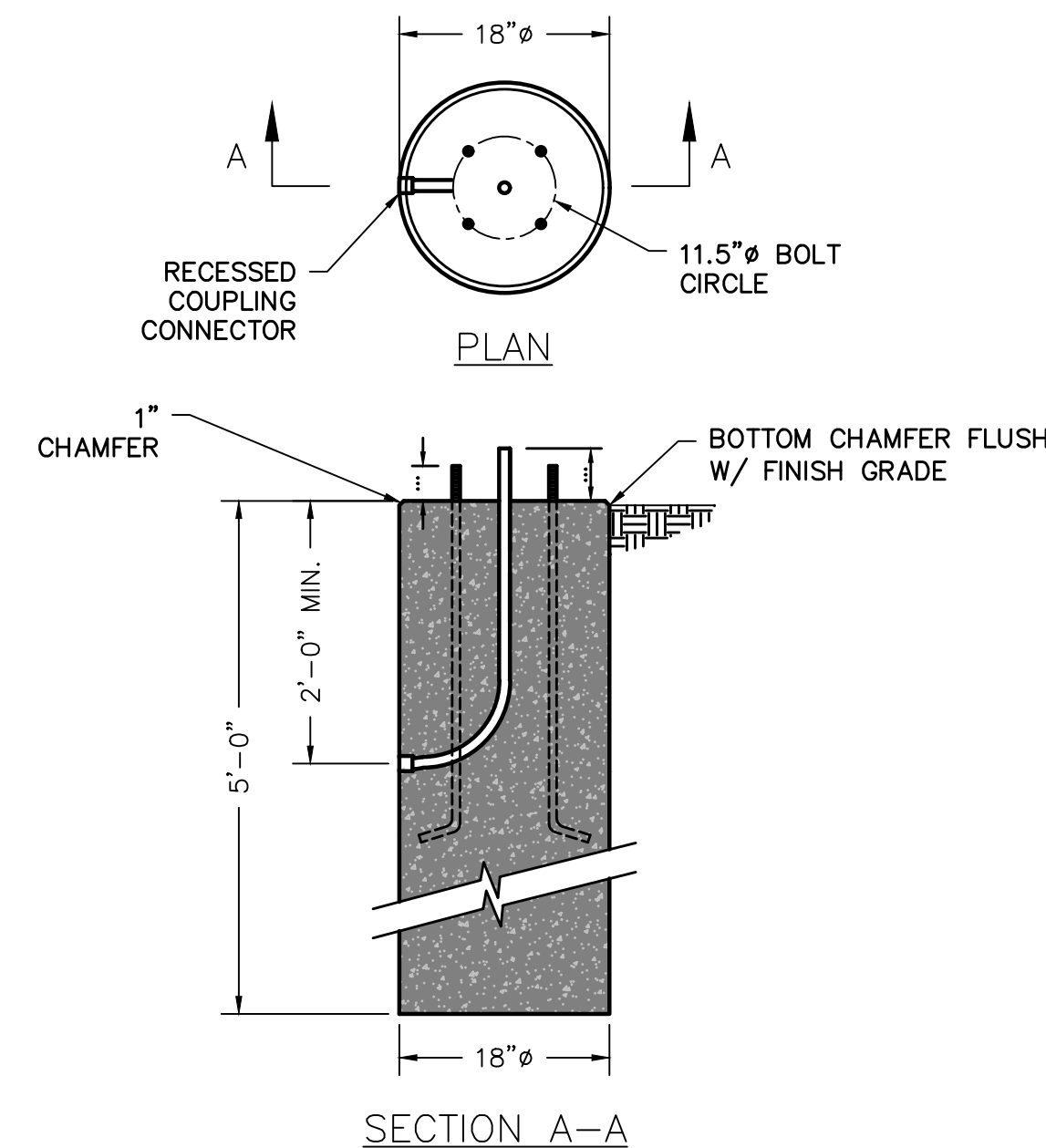


SECTION B-B

OPPOSITE WALLS ARE MIRROR IMAGES.

ELECTRIC MANHOLE DETAIL

SCALE: N.T.S.

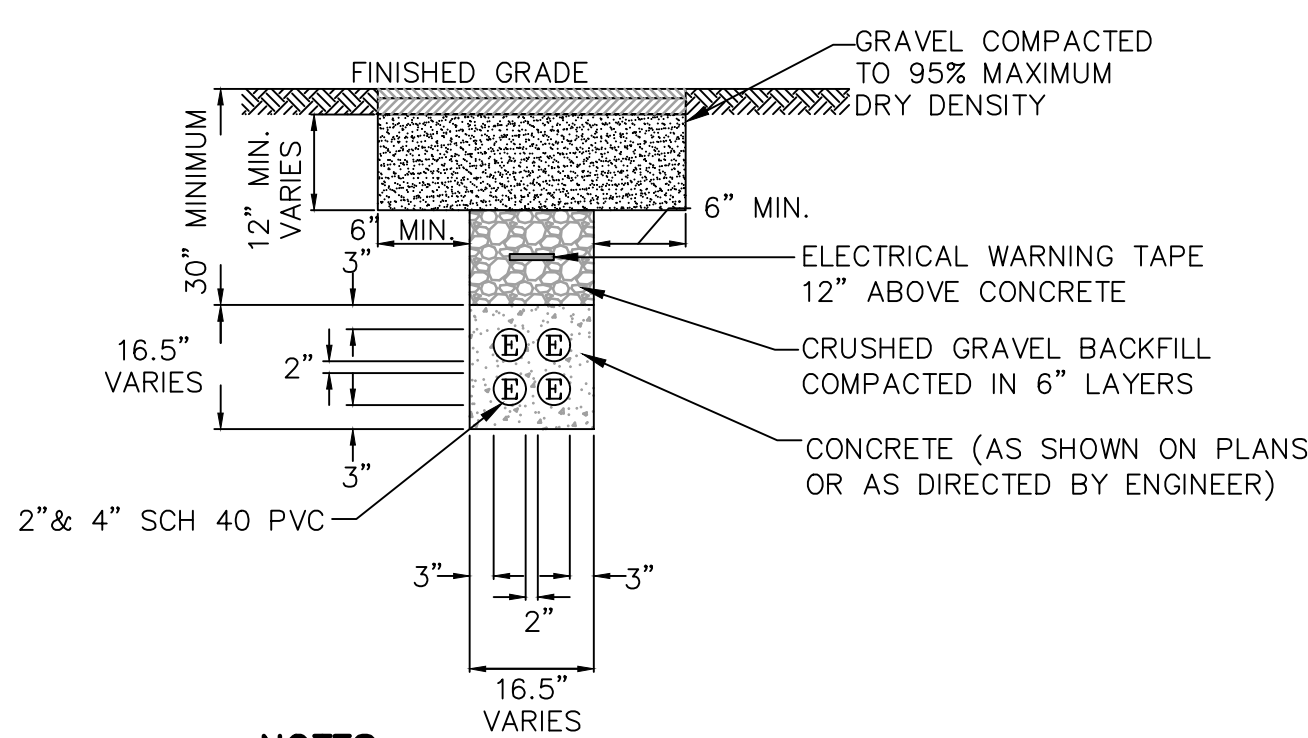


NOTES:

1. CONCRETE MINIMUM 5,000 PSI AFTER 28 DAYS.
2. CONDUIT, ANCHOR BOLTS AND TEMPLATE SUPPLIED BY OTHERS.
3. LIGHT POLE BASE SIZE IS TO BE SPECIFIED BY A QUALIFIED ENGINEER.

LIGHT POLE BASE DETAIL

SCALE: N.T.S.

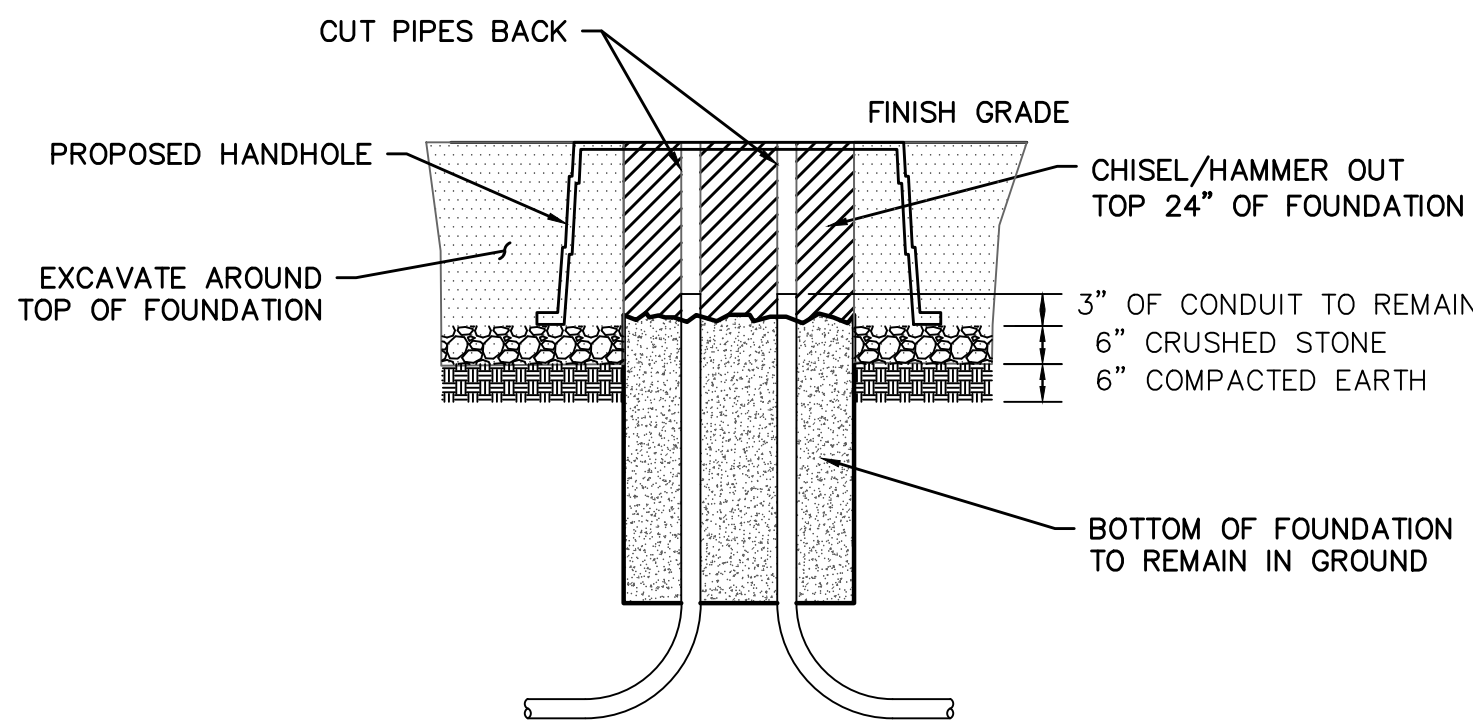


NOTES:

1. NUMBER, SIZE, AND TYPE OF CONDUITS AS REQUIRED.

ELECTRIC TRENCH DETAIL

SCALE: N.T.S.

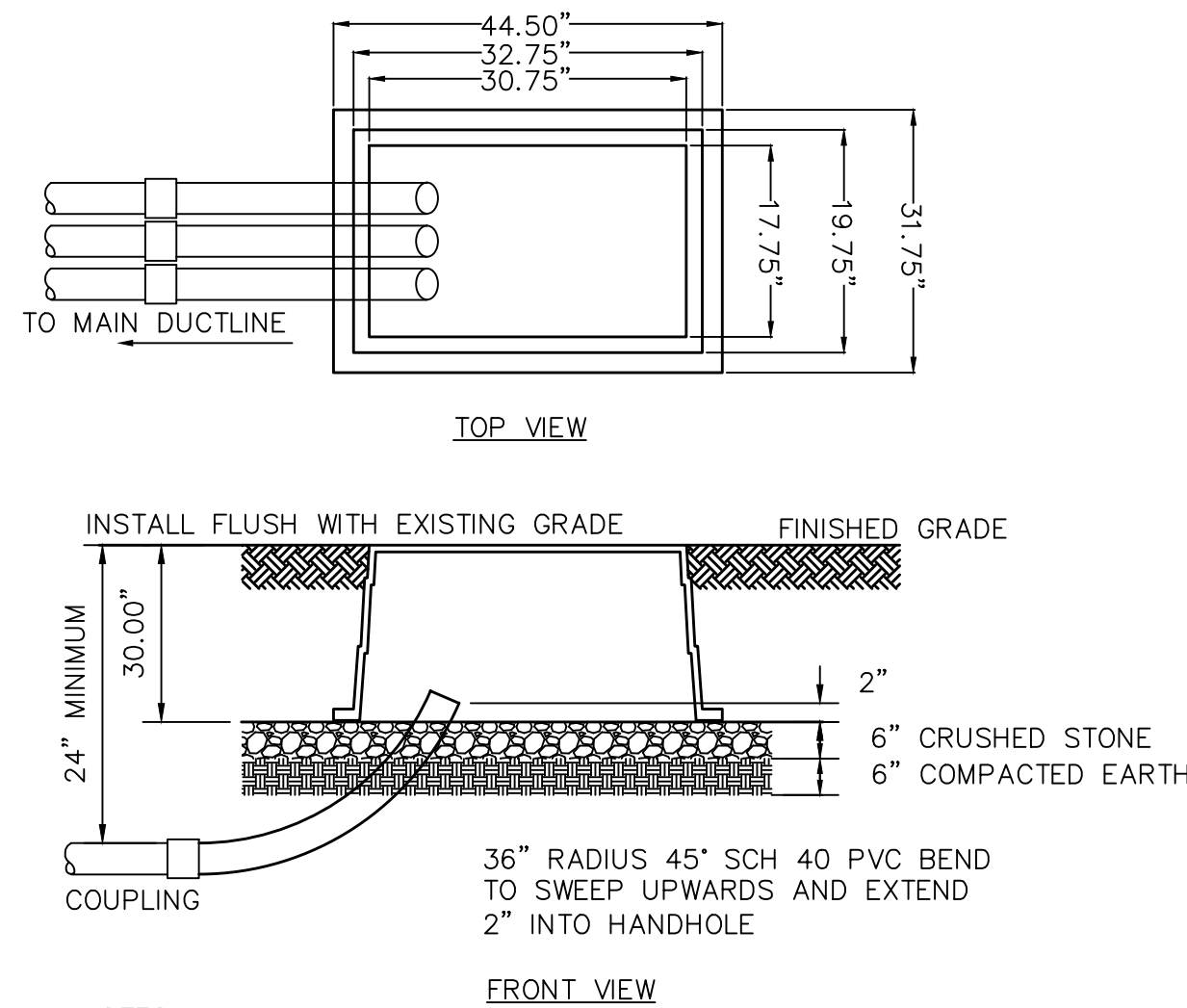


SEQUENCE OF WORK:

1. EXCAVATE AROUND FOUNDATION AND CHISEL/HAMMER OUT TOP OF FOUNDATION (BY CONTRACTOR).
2. WIRES TO BE DISCONNECTED (BY WMGLD).
3. CUT AND REMOVE CONDUIT PIPES 3" ABOVE FOUNDATION (BY CONTRACTOR).
4. RECONNECT WIRES (BY WMGLD).
5. INSTALL NEW HANDHOLE OVER EXISTING WIRES (BY CONTRACTOR).

LIGHT POLE BASE REMOVAL WITH PROPOSED RETROFIT HANDHOLE DETAIL

SCALE: N.T.S.



NOTES:

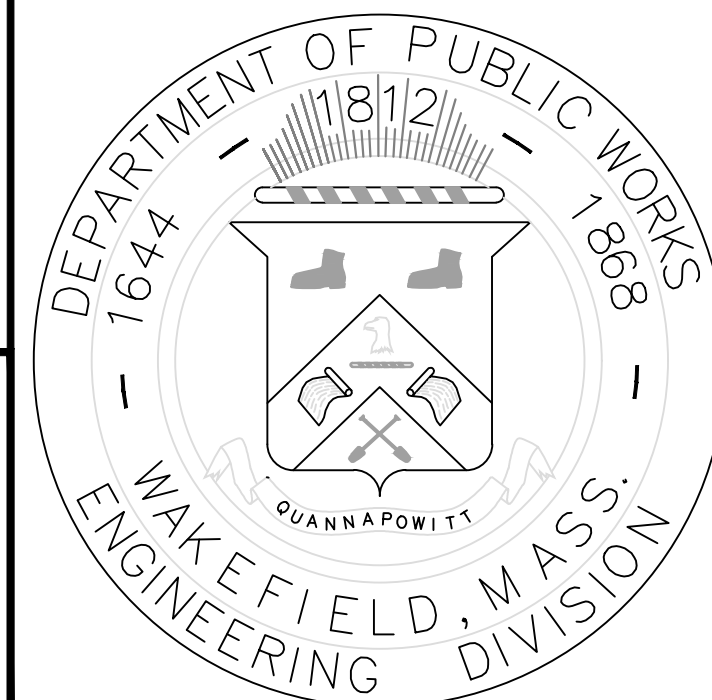
1. HANDHOLE ORIENTATION TO BE SUCH THAT ALL SUPPLY DUCTS ENTER ON SAME SHORT SIDE.
2. SIZE AND NUMBER OF CONDUITS AS REQUIRED.
3. CONDUIT LOCATIONS SHOWN ARE TYPICAL.
4. HANDHOLES INSTALLED WITHIN PAVED SURFACES SHALL BE H-20 RATEDD
5. HANDHOLES TO BE HIGHLINE PRODUCTS MODEL CHA 173030 OR APPROVED EQUAL.

ELECTRIC HANDHOLE DETAIL

SCALE: N.T.S.

TOWN OF WAKEFIELD PUBLIC WORKS
ALBION STREET

ELECTRIC DETAILS



DRAWN BY: TWW
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REVIEWED BY: WJR
APPROVED BY: WJR
DATE: 11/20/2020
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