

VILLAGE OF ALGONQUIN

SPECIFICATIONS AND DETAIL GUIDE FOR PUBLIC IMPROVEMENTS



VILLAGE OF ALGONQUIN DEPARTMENT OF PUBLIC WORKS

JANUARY 2026

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Cliff Ganek, P.E. - Deputy Director/Village Engineer



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

TO: Contractors, Engineers, Developers

FROM: Village of Algonquin Public Works Department

SUBJECT: **Village of Algonquin Staff Contacts**

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VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– TABLE OF CONTENTS –
STANDARD SPECIFICATIONS & DETAILS FOR CONSTRUCTION AND ESTIMATING

TITLE	PAGE
COVER PAGE	1
VILLAGE CONTACTS	2
TABLE OF CONTENTS	3-5
GENERAL CONDITIONS	
<i>GEN 01 - Stabilized Construction Entrance</i>	6
<i>GEN 02 - Inlet Filter Protection</i>	7
<i>GEN 03 - Tree Protection and Root Pruning</i>	8
<i>GEN 04 - Siltation Control Fence</i>	9
<i>GEN 05 - Temporary Gang Mailbox Installation</i>	10
ROADWAY	
<i>RDWY 01 - Road Cross Section</i>	11
<i>RDWY 02 - Parking Lot Pavements</i>	12
<i>RDWY 03 - Unit Pavers Over Rigid Base 1 of 2</i>	13
<i>Unit Pavers Over Rigid Base 2 of 2</i>	14
<i>RDWY 04 - Unit Pavers Sidewalk</i>	15
<i>RDWY 05 - Speed Hump</i>	16
<i>RDWY 06 - Concrete Curb and Gutter</i>	17
<i>RDWY 07 - Curb Expansion Joint</i>	18
<i>RDWY 08 - Crosswalk Markings and Signage</i>	19
<i>RDWY 09 - Bike Lane Symbol</i>	20
RIGHT OF WAY	
<i>ROW 01 - PCC Sidewalk</i>	21
<i>ROW 02 - Detectable Warnings</i>	22
<i>ROW 03 - HMA Multi Use Path</i>	23
<i>ROW 04 - PCC Multi Use Path</i>	24
<i>ROW 05 - PCC Driveway Apron – Commercial/Industrial</i>	25
<i>ROW 06 - PCC Driveway Apron – Residential</i>	26
<i>ROW 07 - Accessible Signage</i>	27
<i>ROW 08 - Domestic Mailbox</i>	28
<i>ROW 09 - Street Signage</i>	29
<i>ROW 10 - Tree Planting</i>	30
<i>ROW 11 - Urban Tree Planting Well with Electrical Outlet</i>	31
<i>ROW 12 - Red Cedar Rail</i>	32

UTILITY

<i>UTL 01 - Manhole Cover W/ Logo</i>	33
<i>UTL 02 - Casing Pipe</i>	34
<i>UTL 03 - Connection to Existing Utility Structure</i>	35
<i>UTL 04 - Trench Backfill & Restoration – Pavement</i>	36
<i>UTL 05 - Trench Backfill & Restoration – Parkway</i>	37

SANITARY

<i>SAN 01 - Sanitary Manhole</i>	38
<i>SAN 02 - Sanitary Drop Manhole</i>	39
<i>SAN 03 - Sanitary Service Riser</i>	40
<i>SAN 04 - Sanitary Service</i>	41
<i>SAN 05 - Sanitary Sewer Repair at Crossing</i>	42
<i>SAN 06 - Forcemain Bypass Pumping Structure</i>	43
<i>SAN 07 - Forcemain Clean Out</i>	44

WATER

<i>WAT 01 - Valve and Vault</i>	45
<i>WAT 02 - Pressure Connection and Vault</i>	46
<i>WAT 03 - Fire Hydrant W/ Aux Valve & Box</i>	47
<i>WAT 04 - Domestic Water Service</i>	48

STORM

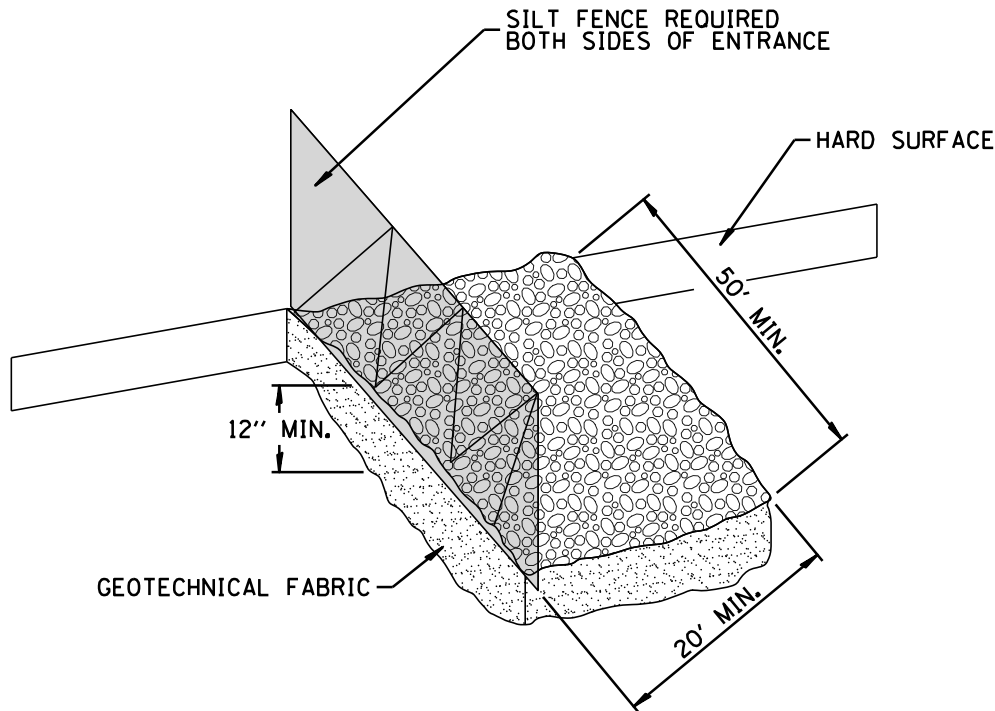
<i>STM 01 - Storm Manhole</i>	49
<i>STM 02 - Catch Basin Type A & B</i>	50
<i>STM 03 - Catch Basin Type C – Special Use Only</i>	51
<i>STM 04 - Drywell Manhole – Special Use Only</i>	52
<i>STM 05 - Inlet Type A Non Roadway</i>	53
<i>STM 06 - Inlet Type B Roadway Curb Line Application</i>	54
<i>STM 07 - Flared End Section</i>	55
<i>STM 08 - Grating for Concrete FES</i>	56
<i>STM 09 - Linear Driveway Drain – Special Use Only</i>	57
<i>STM 10 - Drain Tiles and Underdrains</i>	58
<i>STM 11 - Storm Structure Underdrain</i>	59
<i>STM 12 - Rigid Base Drainage</i>	60
<i>STM 13 - Fuel Spill Collection</i>	61
<i>STM 14 - Sump Pump Connection</i>	62

PARKS

<i>PAR 01 - Park Sign</i>	63
<i>PAR 02 - Garbage Can</i>	64
<i>PAR 03 - Wood Split Rail Fence</i>	65
<i>PAR 04 - Rub Rail Detail</i>	66

LIGHTING

<i>LGT 01 - Lighting Controller Cabinet & Foundation</i>	67
<i>LGT 02 - Lighting Controller Wiring Diagram</i>	68
<i>LGT 03 - Lighting Component Schedule</i>	69
<i>LGT 04 - Cabinet Orientation</i>	70
<i>LGT 05 - Ground Field Detail</i>	71
<i>LGT 06 - Underground Service Installation</i>	72
<i>LGT 07 - Overhead Service Installation</i>	73
<i>LGT 08 - Conduit Detail</i>	74
<i>LGT 09 - Electric Cable Splice Detail</i>	75
<i>LGT 10 - Concrete Handhole</i>	76
<i>LGT 11 - Junction Box Detail</i>	77
<i>LGT 12 - Handhole Wiring Diagram</i>	78
<i>LGT 13 - Roadway Concrete Foundation Detail</i>	79
<i>LGT 14 - Metal Helix Foundation</i>	80
<i>LGT 15 - Transformer Base Detail</i>	81
<i>LGT 16 - Breakaway Coupling Detail</i>	82
<i>LGT 17 - Light Standard & Luminaire Pole 1</i>	83
<i>LGT 18 - Light Standard & Luminaire Pole 2</i>	84
<i>LGT 19 - Historic Light Standard & Luminaire Pole 1</i>	85
<i>LGT 20 - Historic Light Standard & Luminaire Pole 2</i>	86
<i>LGT 21 - Historic Light Standard & Luminaire Pole 3</i>	87
<i>LGT 22 - Historic Light Standard & Luminaire Pole 4</i>	88
<i>LGT 23 - Park Light Standard & Luminaire Pole</i>	89
<i>LGT 24 - Historic Wayfinding Sign Detail</i>	90
<i>LGT 25 - Historic Bollard Detail</i>	91
<i>LGT 26 - Lighting Controller Cabinet & Foundation</i>	92
<i>LGT 27 - Receptacle Controller Wiring Detail</i>	93
<i>LGT 28 - Receptacle Component Schedule</i>	94
<i>LGT 29 - Roadway Concrete Foundation Detail</i>	95
<i>LGT 30 - Receptacle Handhole Wiring Diagram</i>	96



NOTES:

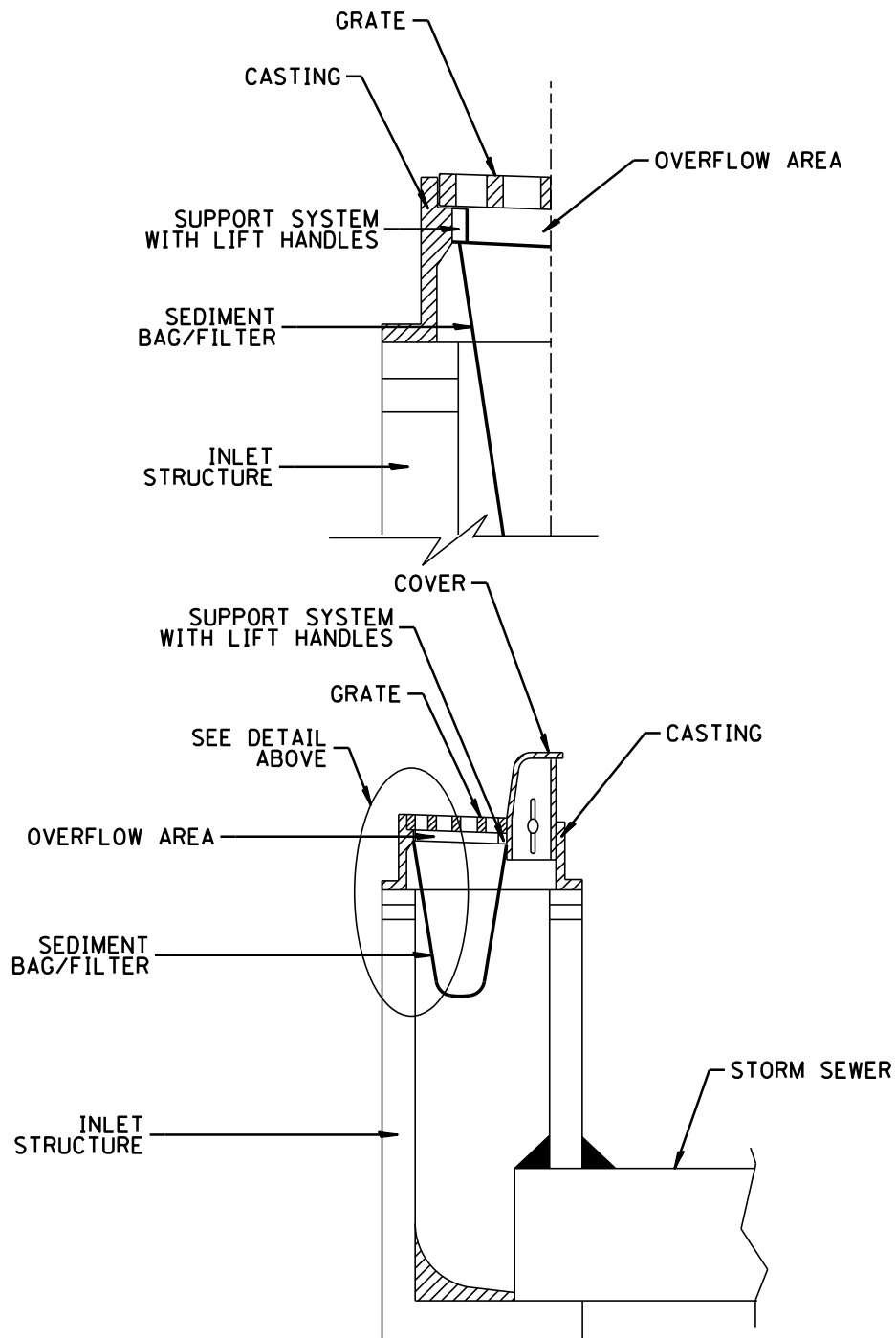
1. STONE SIZE - USE 3" STONE, OR RECYCLED CONCRETE EQUIVALENT THAT IS FREE OF ANY REBAR OR OTHER DEBRIS.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN TWELVE (12) INCHES.
4. WIDTH - TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTECHNICAL FABRIC WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE. FABRIC WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. SILT FENCE SHALL LINE BOTH SIDES OF THE ENTRANCE WAY FOR THE ENTIRE LENGTH. THIS WILL ENCOURAGE THE FULL USE OF THE DESIRED ENTRANCE.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
STABILIZED CONSTRUCTION ENTRANCE**

DRAWN:	DJD	SHEET 6 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		GEN 01
REV 2:		
REV 3:		



NOTE:

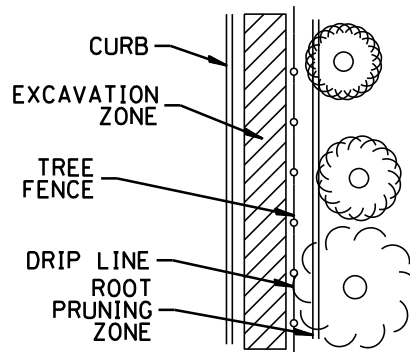
1. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.
2. ALL BASKETS SHALL BE INSPECTED NO LESS THAN WEEKLY OR OTHERWISE DIRECTED BY SWPP. BASKETS MUST BE CLEANED, AS NEEDED, UPON INSPECTION.



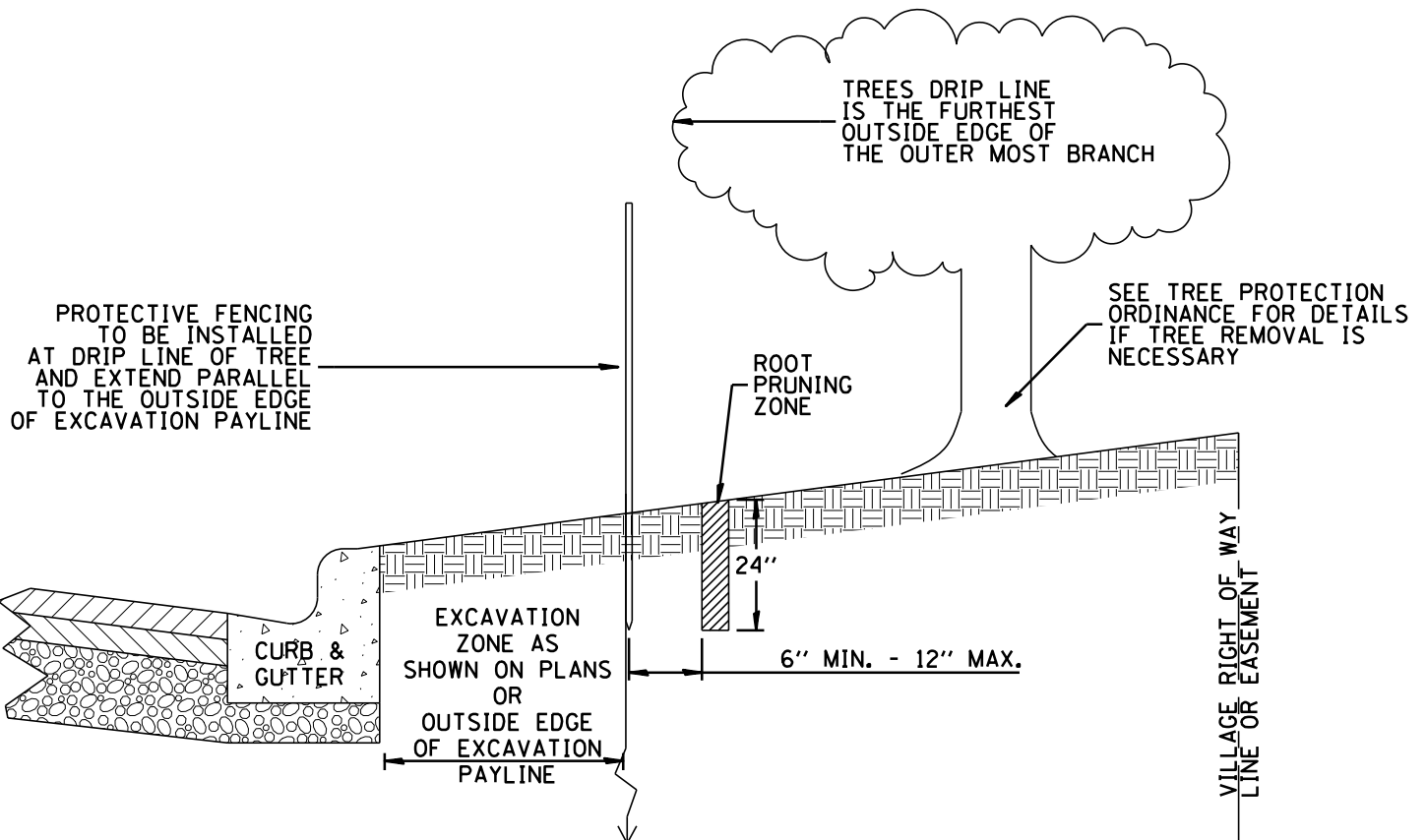
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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
INLET FILTER PROTECTION**

DRAWN:	DJD	SHEET 7 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		GEN 02
REV 2:		
REV 3:		



PLAN VIEW



NOTES:

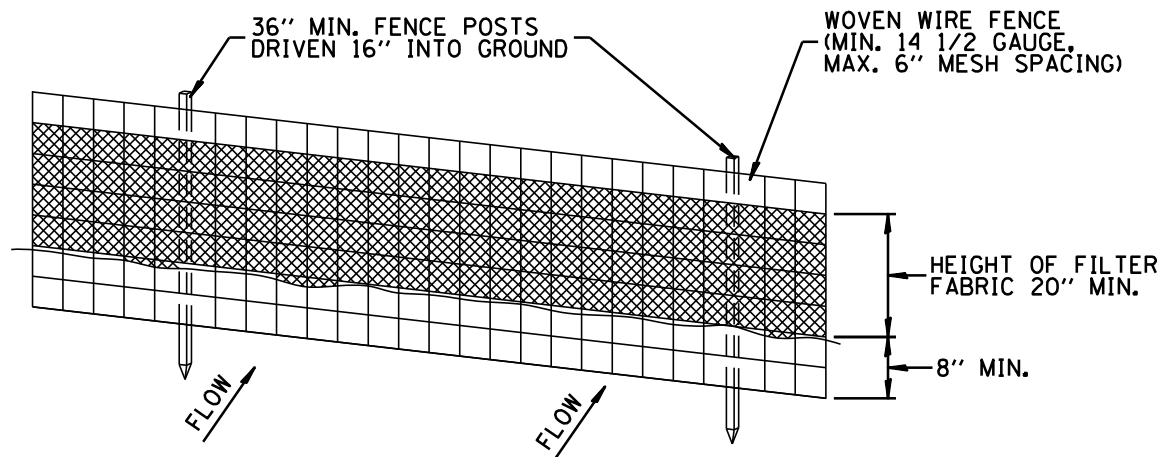
1. ADDITIONAL TREE PROTECTION MAY BE NECESSARY AT THE DIRECTION OF THE VILLAGE.
2. ALL RAISING AND PRUNING TO BE UNDER THE SUPERVISION OF THE VILLAGE.
3. ALL ROOT PRUNING TO OCCUR PRIOR TO THE INSTALLATION OF PROTECTIVE FENCING.
4. THERE IS TO BE NO STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL INSIDE THE PROTECTIVE FENCING.
5. ROOT PRUNING EQUIPMENT SHALL CLEANLY CUT ROOTS WITHOUT RIPPING OR TEARING.



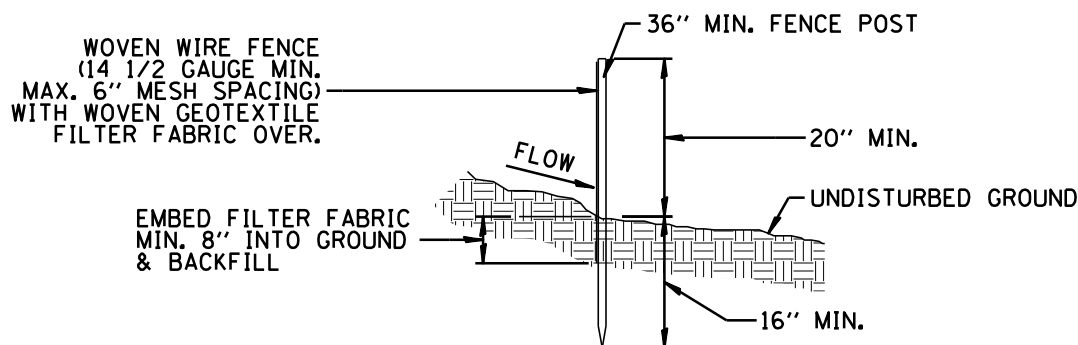
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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
TREE PROTECTION AND ROOT PRUNING

DRAWN:	DJD	SHEET 8 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		GEN 03
REV 2:		
REV 3:		



PERSPECTIVE VIEW



SECTION

NOTES:

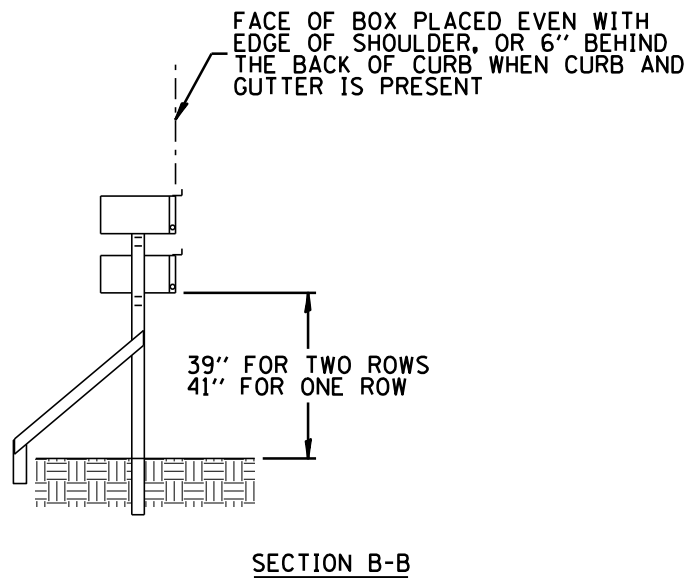
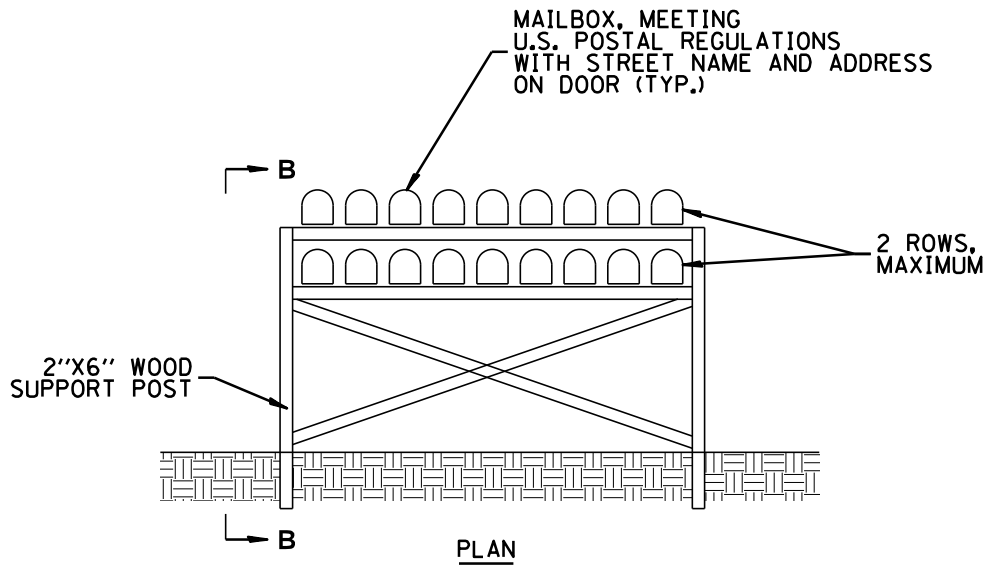
1. WOVEN WIRE FENCE IS REQUIRED ON SLOPES 3:1 OR GREATER.
2. WHERE UTILIZED, WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
3. WHERE UTILIZED, FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
4. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE OR WHEN COLLECTED SOIL HAS REACHED A DEPTH OF THE FABRIC HEIGHT.
6. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
SILTATION CONTROL FENCE**

DRAWN:	DJD	SHEET 9 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		GEN 04
REV 2:		
REV 3:		



NOTE:

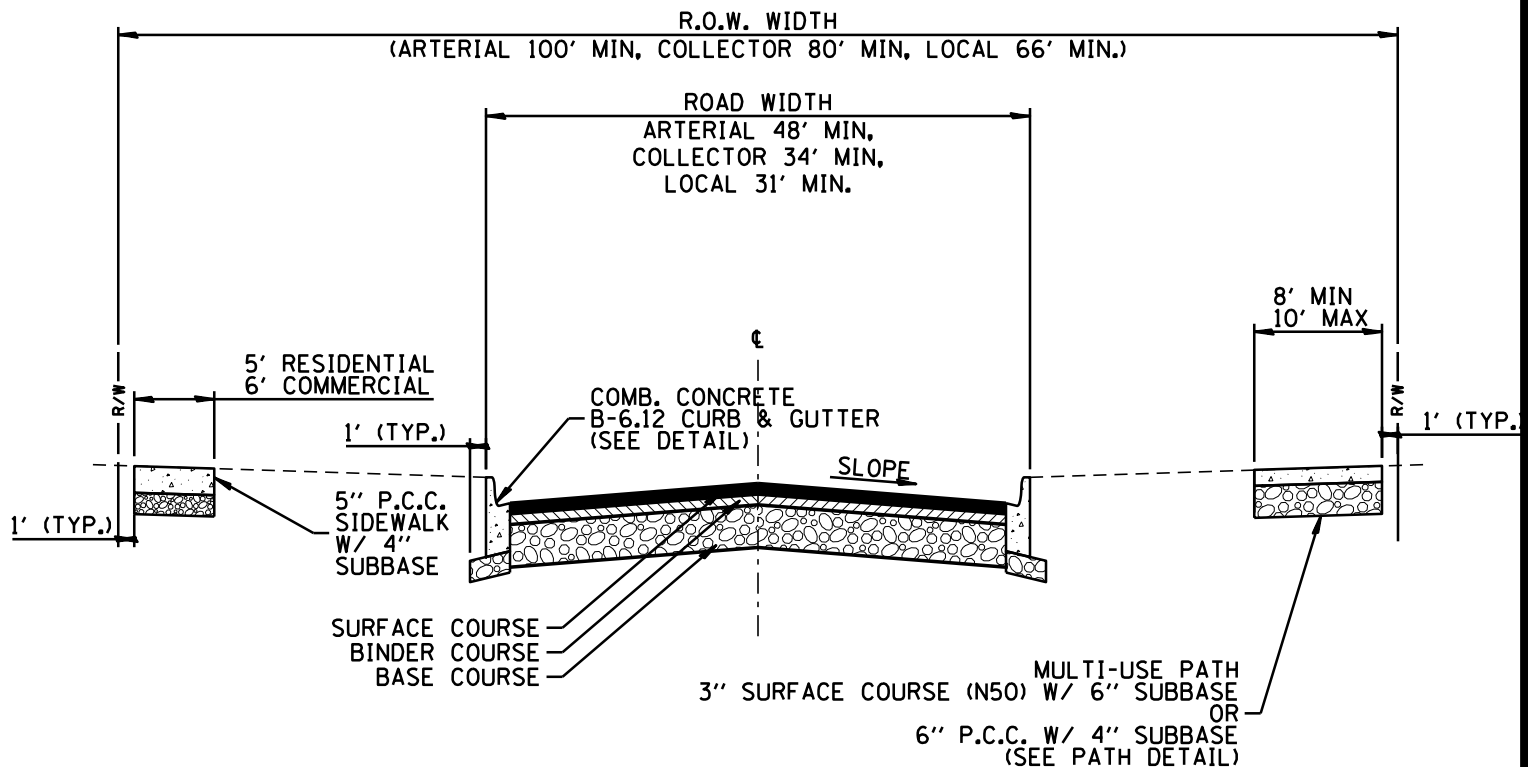
1. TEMPORARY MAILBOX SHALL BE INSTALLED AT LOCATIONS APPROVED BY THE US POSTMASTER.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
TEMPORARY GANG MAILBOX INSTALLATION**

DRAWN:	DJD	SHEET 10 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		GEN 05
REV 2:		
REV 3:		

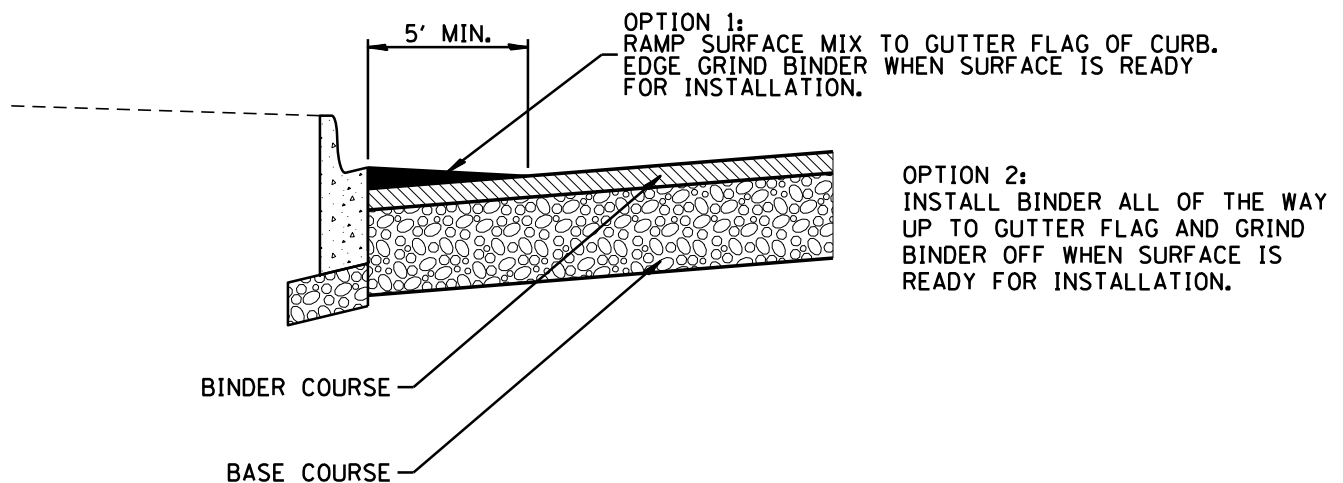


CROSS SLOPE

ALL ROADS 1.5% MIN 2.5% MAX (UNLESS APPROVED BY VILLAGE ENGINEER)

NOTES:

1. USE TABLE 7 OR 7A VILLAGE CODE CHAPTER 22 TO DETERMINE MIX AND THICKNESS OF SURFACE COURSE, BINDER COURSE, AND AGGREGATE BASE COURSE TYPE B.
2. SEE BINDER DETAIL FOR SPECIAL INSTALLATION REQUIREMENTS).
3. PAVEMENT STRUCTURE TO BE CONFIRMED BY GEOTECHNICAL EXPLORATION.
4. WHEN BINDER IS EXPOSED AFTER NOVEMBER 5, OR AS DETERMINED BY THE VILLAGE ENGINEER, USE DETAIL BELOW TO PROTECT CURB AND PREVENT DRAINAGE INTO THE SUBGRADE/SUBBASE.
5. A MAXIMUM OF 2% GRADE IS ALLOWED FOR 100 FEET INTO AN INTERSECTION.

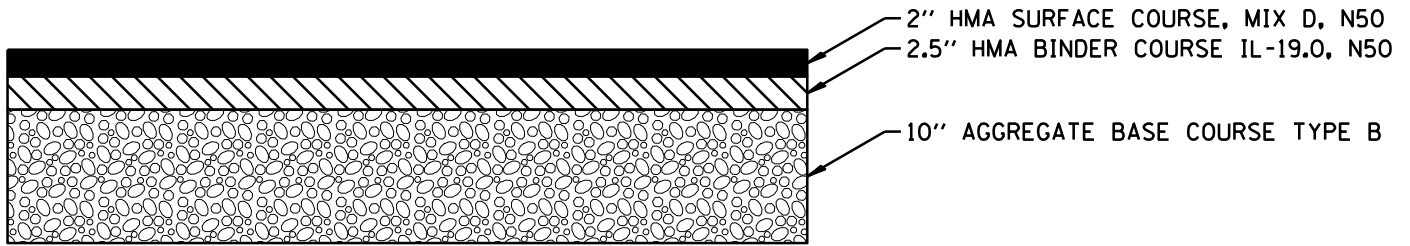


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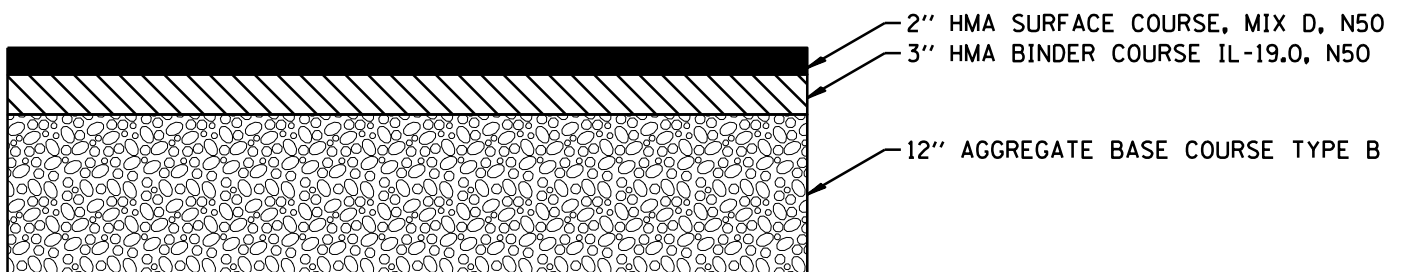
VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS ROAD CROSS SECTION

DRAWN:	DJD	SHEET 11 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

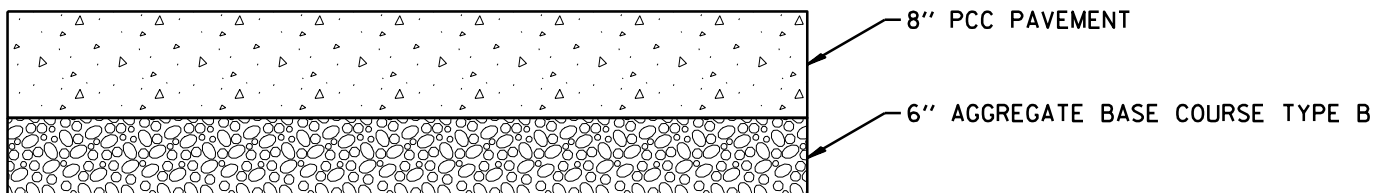
RDWY 01



TYPICAL LOT DESIGN



HEAVY DUTY/TRUCK TRAFFIC AREAS



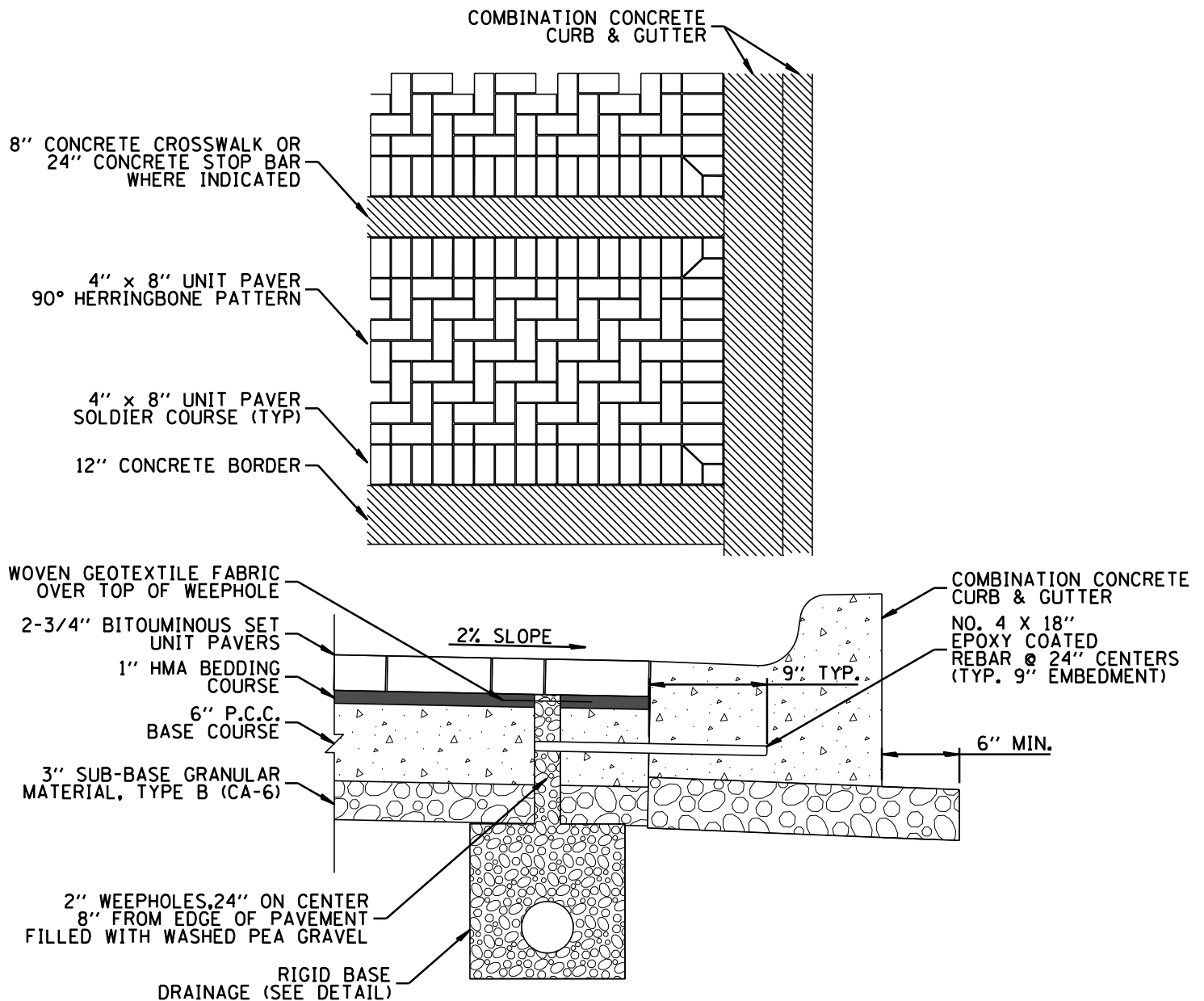
LOADING DOCK AREA



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
PARKING LOT PAVEMENTS**

DRAWN:	DJD	SHEET 12 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		RDWY 02
REV 2:		
REV 3:		



NOTES:

1. AGGREGATE FOR BEDDING SHALL CONFORM TO THE GRADATION FOUND IN TABLE BELOW.
2. FINE AGGREGATE FOR JOINT SAND REPLACEMENT SHALL BE TYPE HP POLYMERIC SAND CONFORMING TO ATM C-144.
3. MAXIMUM PAVER JOINT WIDTH SHALL BE 1/16".
4. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.

GRADING REQUIREMENTS FOR BEDDING AND JOINT SAND

SIEVE SIZE	PERCENT PASSING
3/8 IN	100
NO. 4	95 TO 100
NO. 8	80 TO 100
NO. 16	50 TO 85
NO. 30	25 TO 60
NO. 50	10 TO 30
NO. 100	2 TO 10



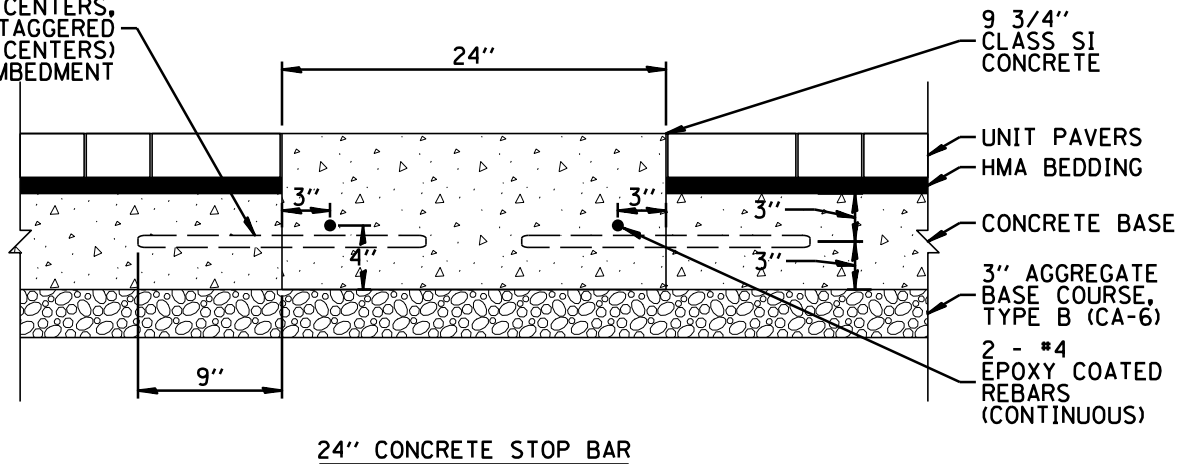
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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS UNIT PAVERS OVER RIGID BASE 1 OF 2

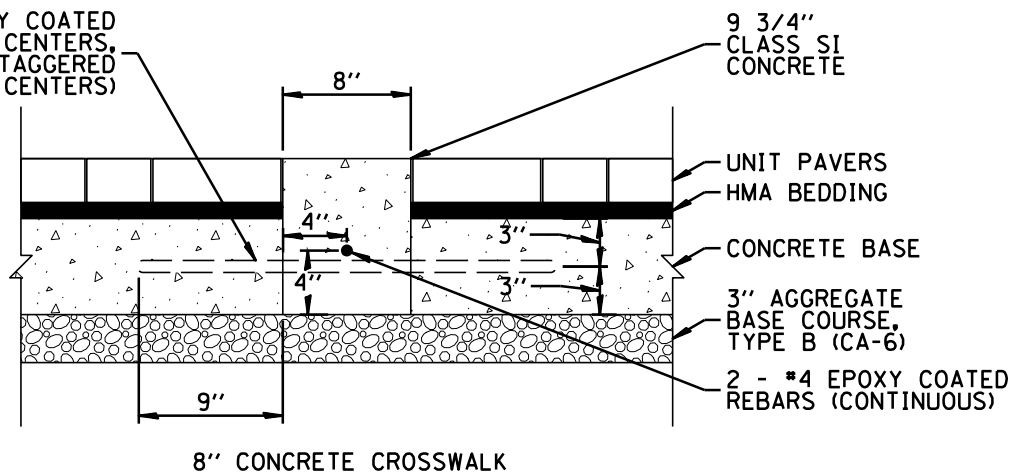
DRAWN:	DJD	SHEET 13 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

RDWY 03

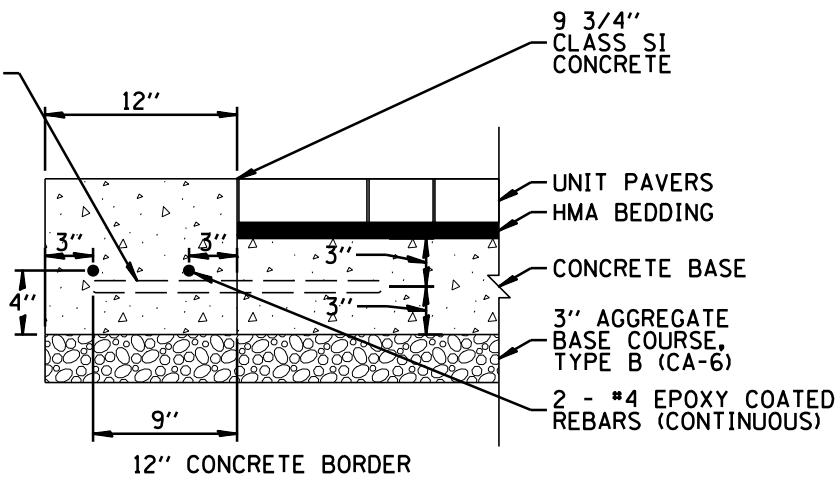
NO. 4 X 18" EPOXY COATED
TIE BARS @ 24" CENTERS,
EACH SIDE (STAGGERED
AT 12" CENTERS)
TYP. 9" EMBEDMENT



NO. 4 X 18" EPOXY COATED
TIE BARS @ 24" CENTERS,
EACH SIDE (STAGGERED
AT 12" CENTERS)



NO. 4 X 18" EPOXY COATED
TIE BARS @ 24" CENTERS,
EACH SIDE (STAGGERED
AT 12" CENTERS)

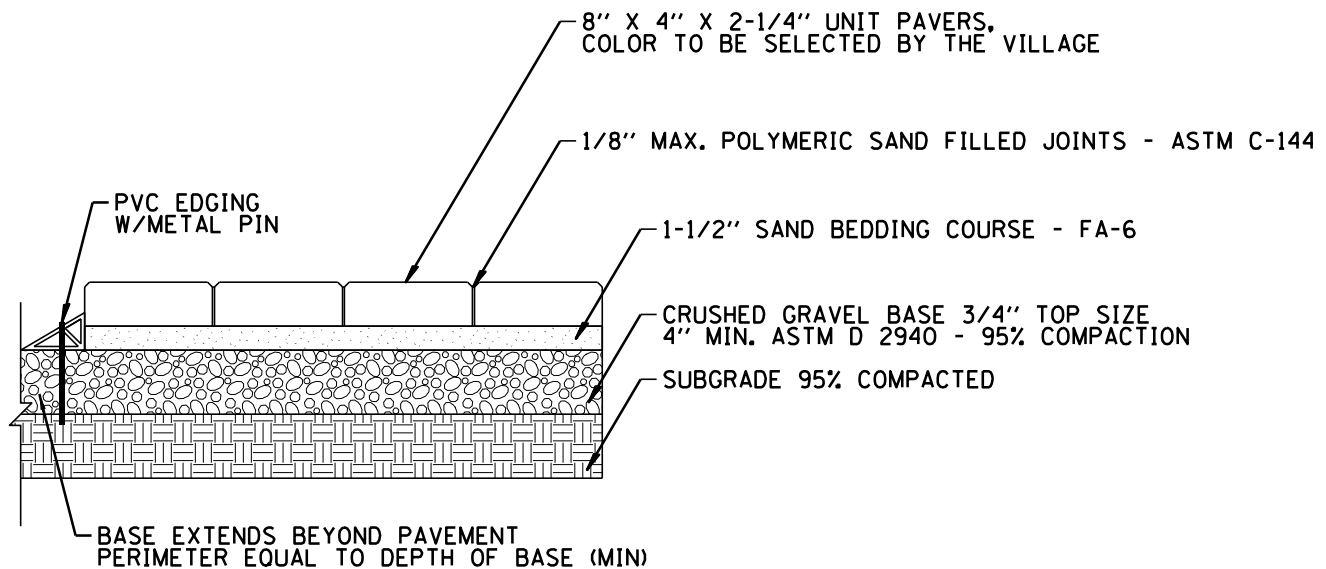


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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
UNIT PAVERS OVER RIGID BASE 2 OF 2

DRAWN:	DJD	SHEET 14 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

RDWY 03



NOTES:

1. GRADING REQUIREMENTS FOR BEDDING AND JOINT SAND

<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>
3/8" IN	100
NO. 4	95 TO 100
NO. 8	80 TO 100
NO. 16	50 TO 85
NO. 30	25 TO 60
NO. 50	10 TO 30
NO. 100	2 TO 10

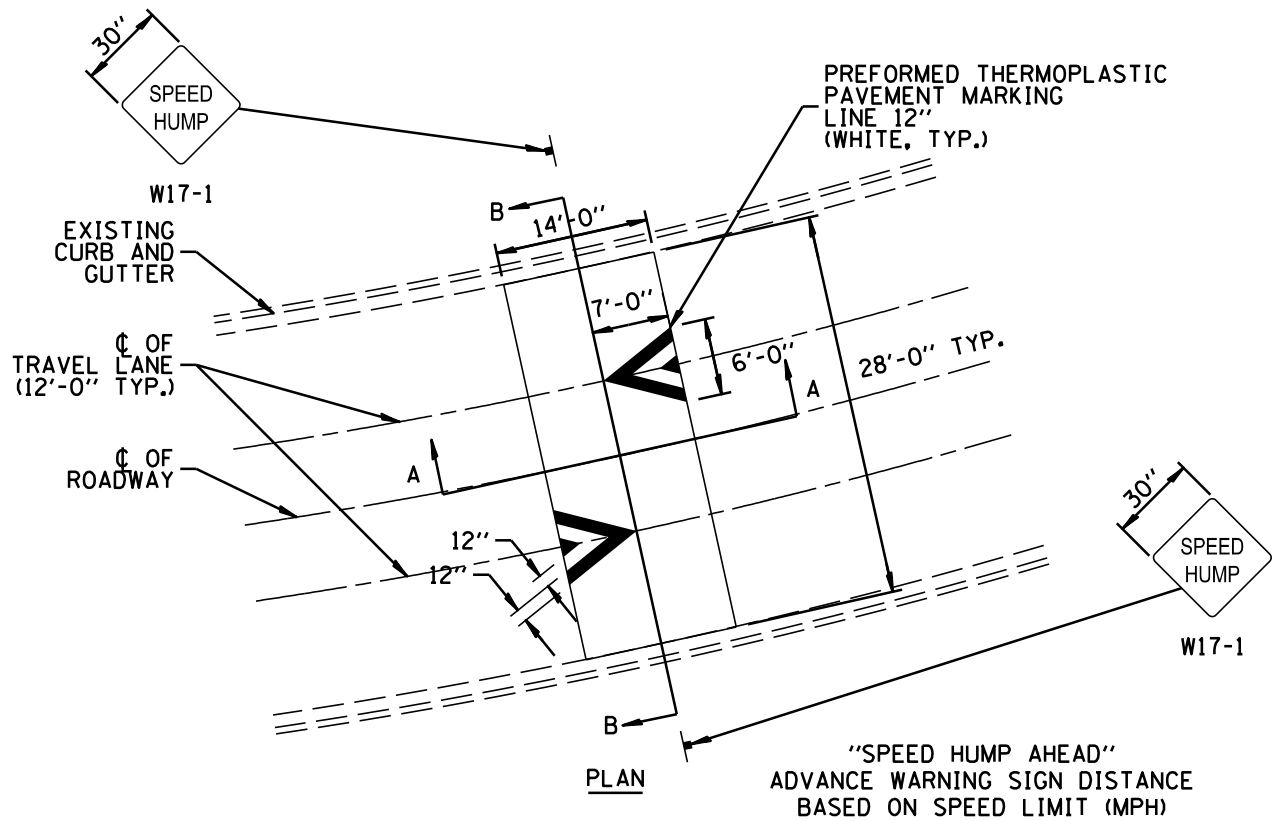
2. SEE VOA APPROVED PRODUCTS LIST FOR MANUFACTURER & MODEL NUMBERS.



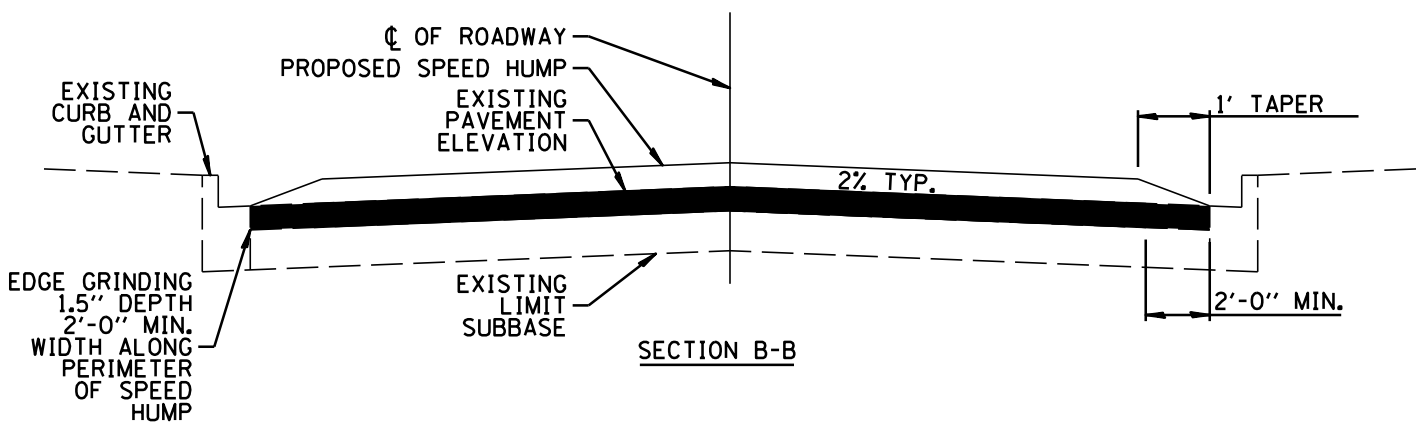
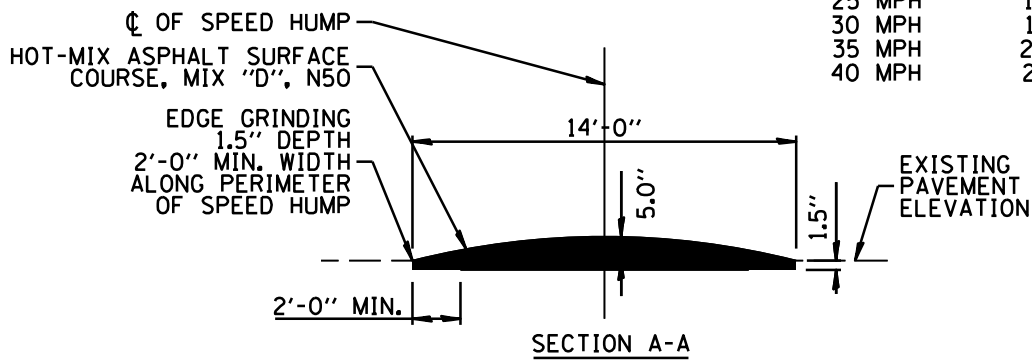
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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
UNIT PAVERS SIDEWALK**

DRAWN:	DJD	SHEET 15 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		RDWY 04
REV 2:		
REV 3:		



25 MPH	100 FT
30 MPH	150 FT
35 MPH	200 FT
40 MPH	275 FT

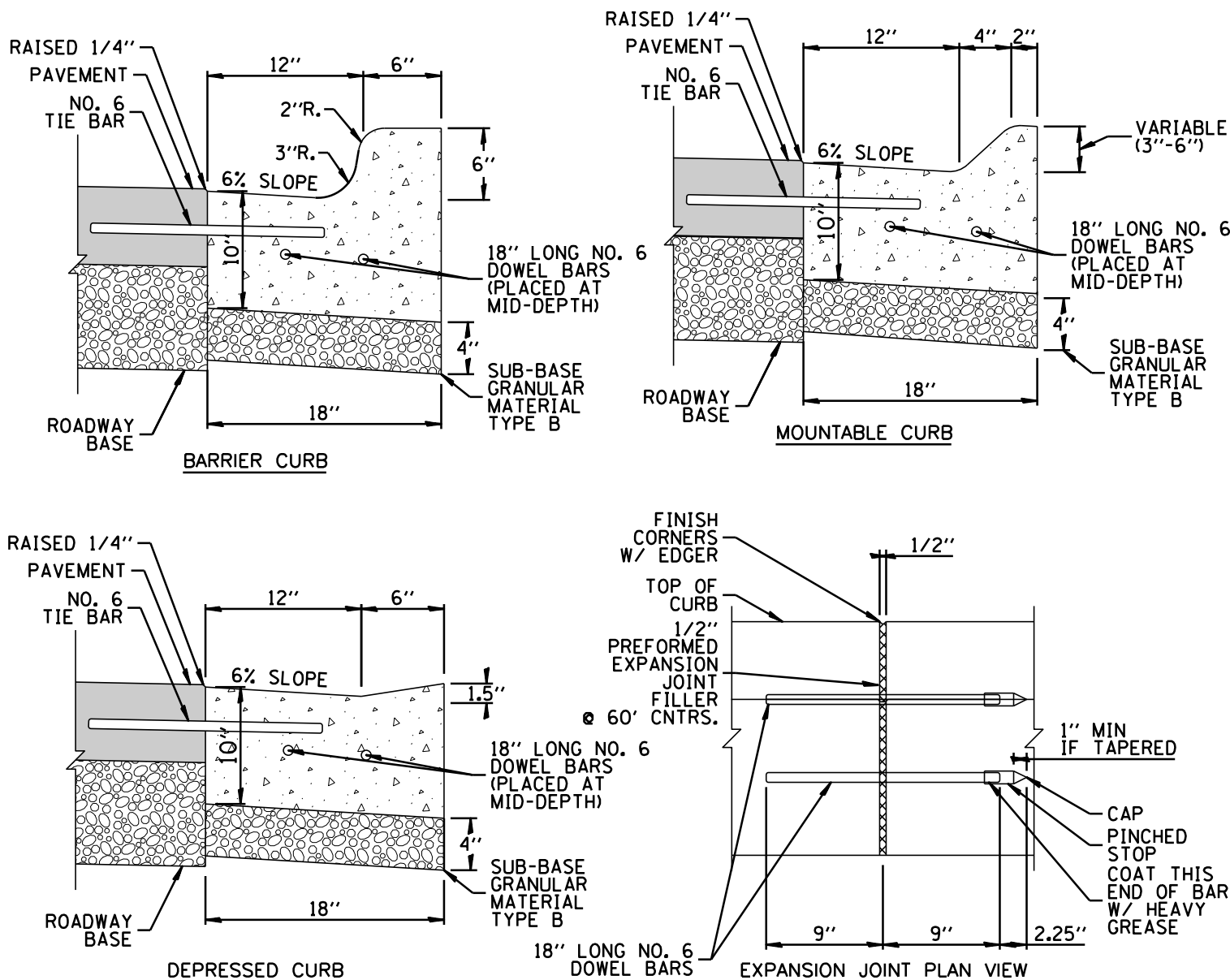


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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
SPEED HUMP

DRAWN:	DJD	SHEET 16 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

RDWY 05



NOTES:

1. ALL EXPANSION JOINTS SHALL BE PROVIDED WITH (2) 3/4" DIAMETER X 18" LONG COATED SMOOTH DOWEL BARS CONFORMING TO ARTICLE 442.06 OF THE IDOT STANDARD SPECIFICATIONS. THE DOWEL BAR SHALL BE FITTED WITH A CAP HAVING A PINCHED STOP THAT WILL PROVIDE 1" OF EXPANSION.
2. EXPANSION JOINTS SHALL BE CONSTRUCTED AT 60 FOOT INTERVALS, AT ALL POINTS OF TANGENCY, AT THE END OF EACH DAYS PLACEMENT, OR 5' ON EITHER SIDE OF A STRUCTURE CASTING THAT FALLS WITHIN THE CURB LINE.
3. CONSTRUCTION JOINTS SHALL BE SAWCUT TO A DEPTH OF 1/3 THICKNESS OF CURB EVERY 15'-0" (MAXIMUM).
4. CONCRETE SHALL BE IDOT CLASS PV 3500 PSI@ 14 DAYS, 3" SLUMP, 6% AIR ENTRAINED.
5. PROTECTIVE COAT SHALL BE APPLIED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION 420.18 AS DIRECTED BY THE VILLAGE.
6. LONGITUDINAL JOINT TIE BARS SHALL BE NO. 6 AT 3'-0" CENTERS IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.
7. A MINIMUM CLEARANCE OF 2" BETWEEN THE END OF THE TIE BAR AND THE BACK OF THE CURB SHALL BE MAINTAINED.
8. TIE BARS ONLY REQUIRED FOR CONCRETE PAVEMENT OR BASE.



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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS CONCRETE CURB AND GUTTER

DRAWN:	DJD	SHEET 17 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

RDWY 06

**FOR CROSSWALKS
WITHOUT STOP CONTROL**

W11-2



W16-9P

AHEAD

100'

**FOR CROSSWALKS
WITH STOP CONTROL**



R1-1



W11-2

AHEAD

W16-9P

20' MIN. TYP.

**SPEED LIMIT (MPH)
ADVANCE WARNING DISTANCE**

25 MPH	100 FT
30 MPH	150 FT
35 MPH	200 FT
40 MPH	275 FT
45 MPH	325 FT

1' MIN. TYP.

1' MIN. TYP.

2' MIN. TYP.

4' MIN. TYP.

8' MIN. TYP.

20' MIN. TYP.

100' MIN. TYP.

FOR CROSSWALKS NEAR SCHOOLS

NOTES: WITH STOP CONTROL

1. ALL PAVEMENT MARKINGS IN THE RIGHT OF WAY SHALL BE INSTALLED WITH THERMOPLASTIC. PAINT SHALL NOT BE USED UNLESS PRIOR AUTHORIZATION IS PROVIDED BY THE VILLAGE.
2. ALL CROSSWALK MARKINGS SHALL BE INSTALLED SO THAT THEY ARE RECESSED WITHIN THE STREET PAVEMENT. RECESSION SHALL BE 1" WIDER THAN MARKING.
3. SEE STREET SIGNAGE DETAIL FOR INSTALLATION STANDARDS.
4. CROSSWALK SCENARIOS SHALL APPLY TO ALL INTERSECTION TYPES, INCLUDING MID-BLOCK CROSSINGS.
5. ALL SCHOOL PEDESTRIAN AND BICYCLE WARNING SIGNS SHALL BE FLUORESCENT YELLOW-GREEN PER MUTCD.

**FOR CROSSWALKS NEAR SCHOOLS
WITHOUT STOP CONTROL**



S1-1

W16-7P



S1-1

W16-9P

AHEAD

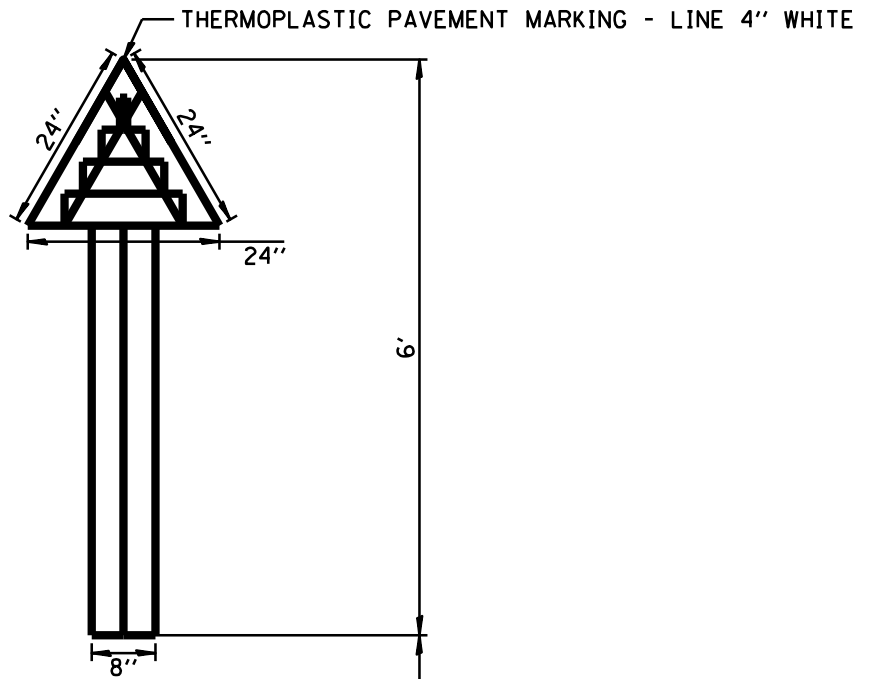


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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
CROSSWALK MARKINGS AND SIGNAGE**

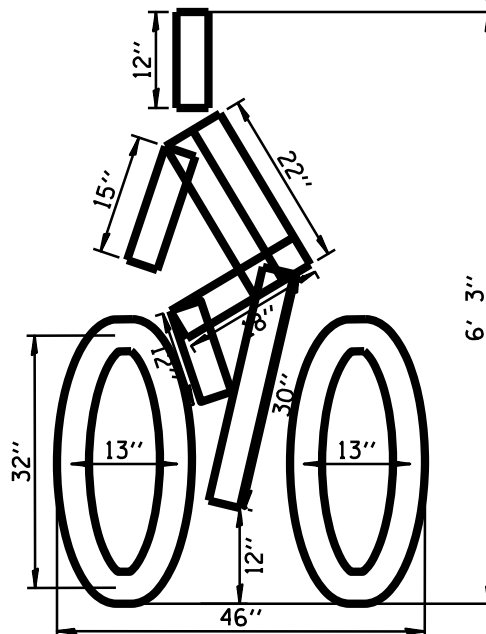
DRAWN:	DJD	SHEET 19 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

RDWY 08



NOTES:

1. ALL LINES ARE TO BE 4" (WHITE) UNLESS OTHERWISE NOTED.
2. 12 SO FT TOTAL PER SET.

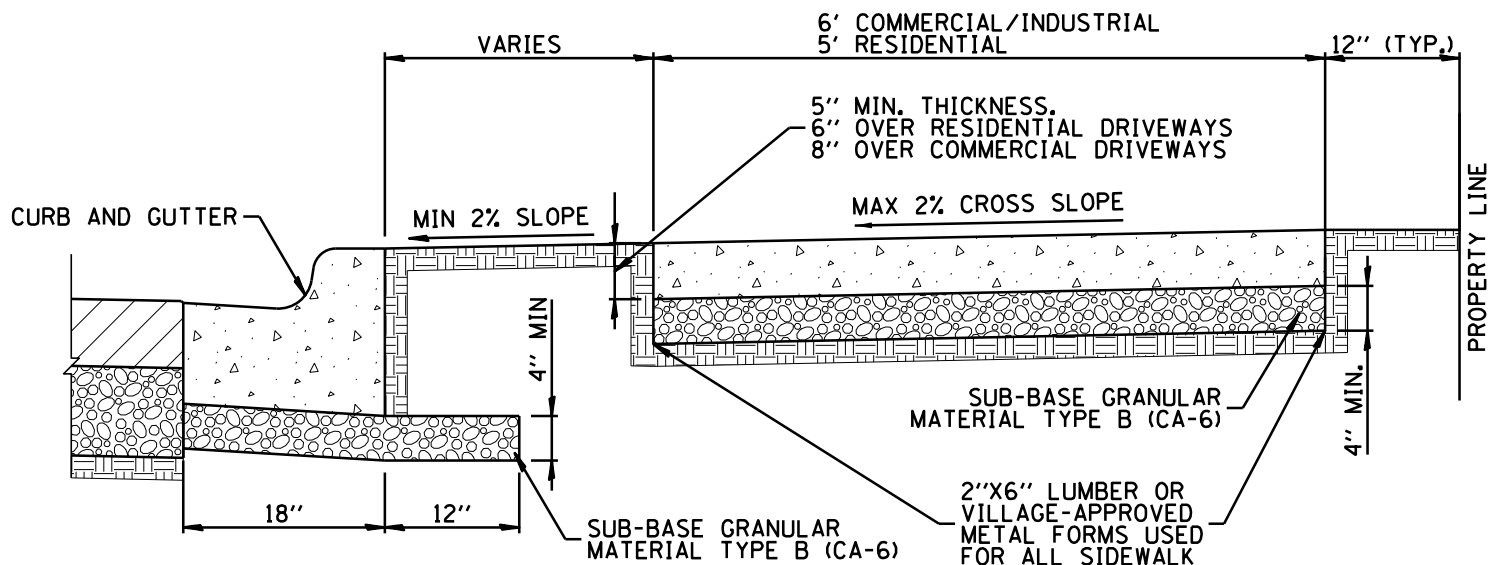


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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
BIKE LANE SYMBOL**

DRAWN:	DJD	SHEET 20 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

RDWY 09



NOTES:

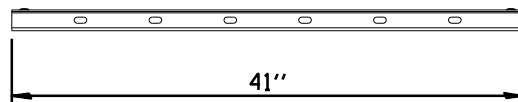
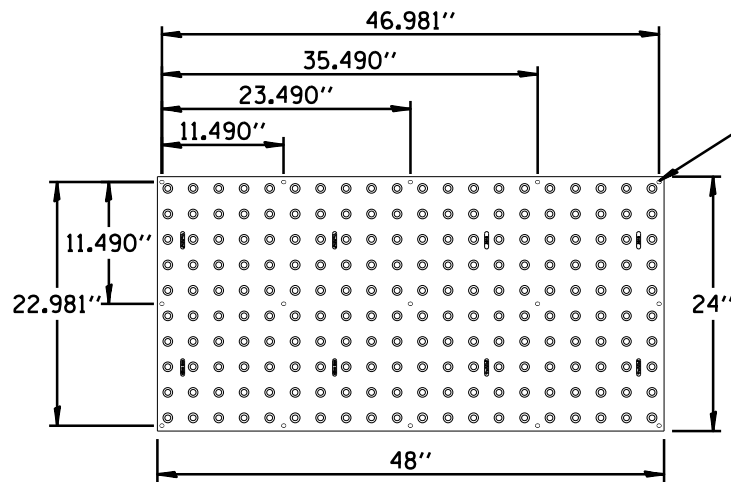
1. THE CONCRETE SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 424 OF THE MOST RECENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. CA-6 AGGREGATE BASE AND FORMS MUST BE INSPECTED AND APPROVED BY THE VILLAGE PRIOR TO PLACEMENT OF CONCRETE.
3. THE CONCRETE SHALL CONFORM TO SECTION 1020 CLASS PV AND SHALL BE A HAVE A 3-INCH SLUMP AND SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT 14 DAYS.
4. SIDEWALK SHALL BE 5" THICK (MINIMUM). THE SIDEWALK PORTION OF THE DRIVEWAY SHALL MATCH THE DEPTH OF THE DRIVEWAY AND BE POURED SEPARATELY.
5. NO CHLORIDE ADDITIVE WILL BE PERMITTED IN THE CONCRETE.
6. ALL SIDEWALKS MUST CONFORM TO THE AMERICANS WITH DISABILITIES ACT. THE MAXIMUM ALLOWABLE RUNNING SLOPE IS 1:20.
7. TOOLED CONTROL JOINTS SHALL BE INSTALLED ON 5' CENTERS.
8. 1/2" EXPANSION JOINTS SHALL BE INSTALLED AT 50' CENTERS MAX AND WHERE THE SIDEWALK ABUTTS CURB OR EXISTING SIDEWALK, AND AT THE END OF EACH POUR.
9. THE SIDEWALK SHALL HAVE A BROOM FINISH.
10. A PROTECTIVE SURFACE TREATMENT CONSISTENT TO IDOT ARTICLE 420.21 SHALL BE APPLIED.
11. THREE 10-FOOT LONG NO. 4 EPOXY COATED REBAR REQUIRED ACROSS UTILITY TRENCHES.



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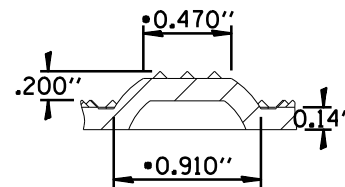
VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS PCC SIDEWALK

DRAWN:	DJD	SHEET 21 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		ROW 01
REV 2:		
REV 3:		

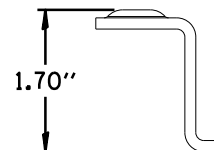


GV STEEL STIFFENER BAR

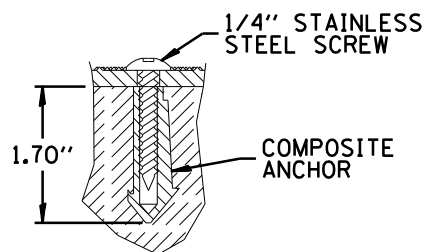
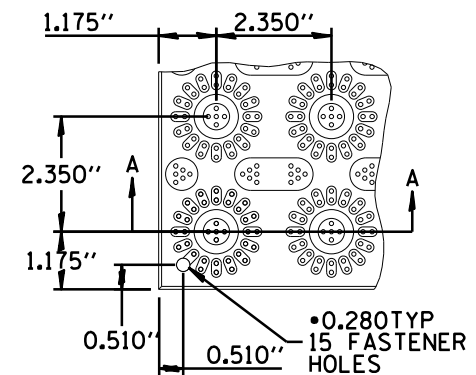
FASTENER
LOCATION
15 PLACES



SECTION A-A



GV STEEL STIFFENER BAR
END VIEW



WET SET ANCHOR DETAIL
(FRESH CONCRETE)

NOTES:

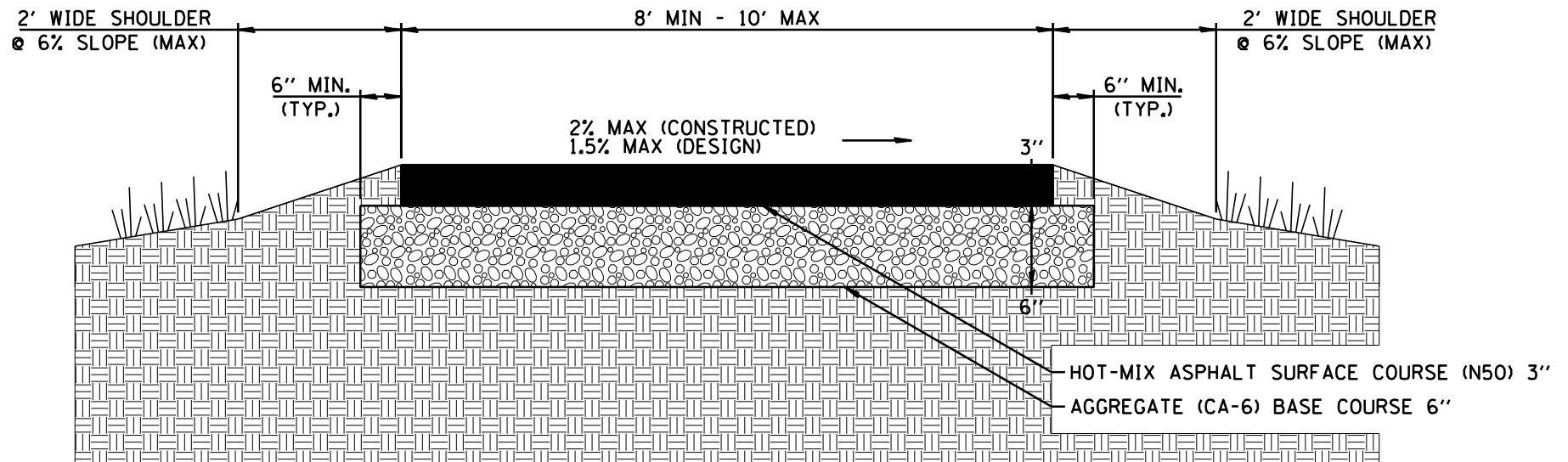
1. TILE SHALL BE A 24" X 48" TUFTILE DETECTABLE WARNING TILE.
2. MATERIAL SHALL BE COMPOSED OF 10 GAUGE GALVANIZED STEEL, COLORED "SAFETY RED" FED31350.
3. TILE SHALL BE WET SET ONLY.



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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
DETECTABLE WARNING

DRAWN:	DJD	SHEET 22 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		ROW 02
REV 2:		
REV 3:		



NOTES:

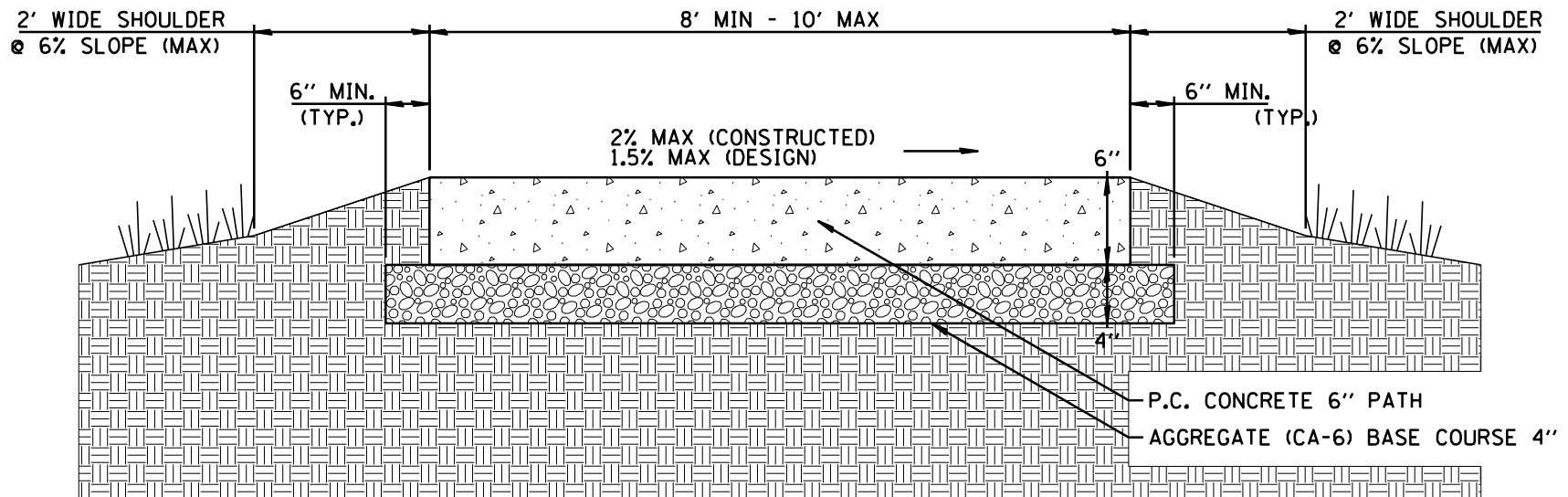
1. A MINIMUM OF 6" OF CA-6, TYPE B MUST BE PLACED AND MECHANICALLY COMPACTED PRIOR TO PAVEMENT PLACEMENT.
2. GRANULAR BASE MUST BE INSPECTED BY VILLAGE PRIOR TO PLACEMENT OF PAVEMENT.
3. ANY PATCHING FOR WORK ON THE PATH MUST BE DONE AT FULL WIDTH AND AT A LENGTH THAT IS AT LEAST THE WIDTH OF THE PATH. PATCH MUST BE SAW CUT AND NOT TOOLED.
4. THE PATH SURFACE SHALL NOT BE CROWNED.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
HMA MULTI USE PATH**

DRAWN:	DJD	SHEET 23 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		ROW 03
REV 2:		
REV 3:		



NOTES:

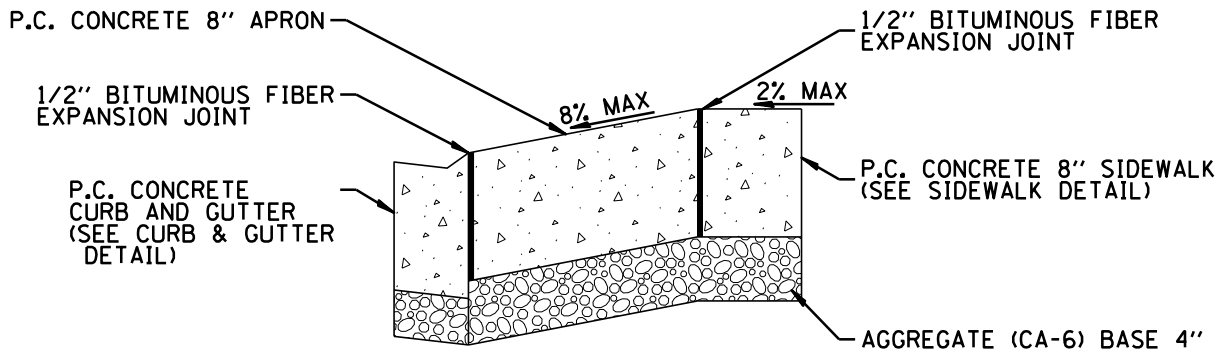
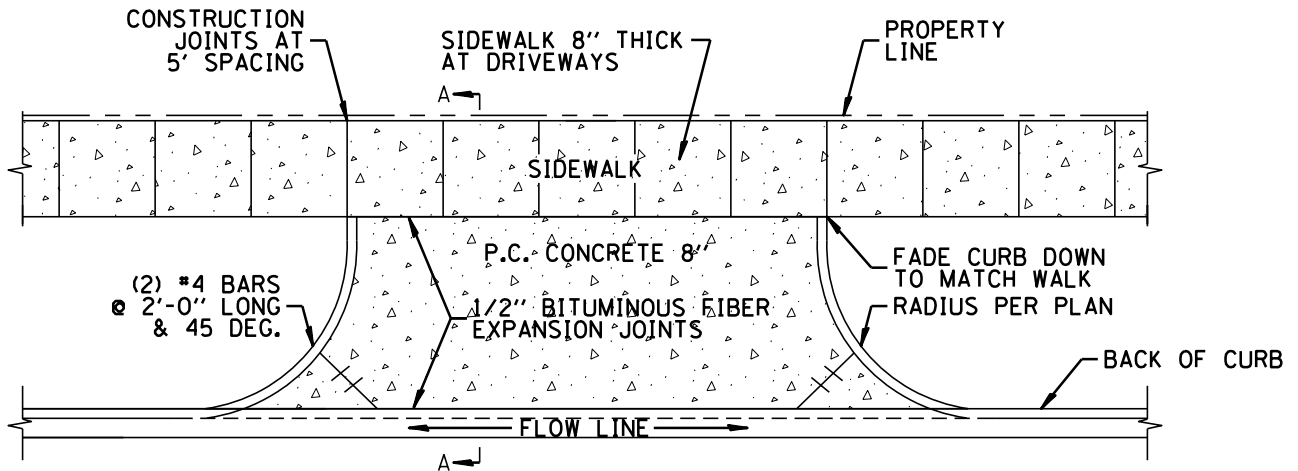
1. A MINIMUM OF 4" OF CA-6, TYPE B MUST BE PLACED AND MECHANICALLY COMPACTED PRIOR TO PAVEMENT PLACEMENT.
2. GRANULAR BASE AND FORMWORK MUST BE INSPECTED BY VILLAGE PRIOR TO PLACEMENT OF PAVEMENT.
3. ANY PATCHING FOR WORK ON THE PATH MUST BE DONE AT FULL WIDTH FOR AN INTERVAL LENGTH THAT IS AT LEAST THE WIDTH OF THE PATH. PATCH MUST BE SAW CUT AND NOT TOOLED.
4. AT LOCATIONS WHERE PATH CROSSES A UTILITY TRENCH, THREE (3) #4 EPOXY COATED REBAR SHALL BE INSTALLED PERPENDICULAR TO THE TRENCH.
5. JOINTS SHALL BE SPACED AT 8' ON CENTER AND SHALL BE SAWCUT WITH A 1/8" OR 3/16" WIDE BLADE AT A DEPTH OF 1/4 OF THE CONCRETE THICKNESS.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
PCC MULTI USE PATH**

DRAWN:	DJD	SHEET 24 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		ROW 04
REV 2:		
REV 3:		



SECTION A-A

NOTES:

1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO IDOT CLASS PV, 3500 PSI @ 14 DAYS, SLUMP 3", AND 6% AIR ENTRAINMENT.
2. CONSTRUCTION JOINTS SHALL BE PLACED IN A UNIFORM MANNER THAT ALLOWS NO SINGLE SLAB TO BE MORE THAN A 10' X 10' SECTION.
3. WHERE THE PROPOSED ENTRANCE IS FRONTED BY BARRIER CURB OR THERE IS A DESIRE TO CHANGE A PORTION OF THE EXISTING CURB AND GUTTER CROSS SECTION, THE CURB AND GUTTER SHALL EITHER BE REPLACED IN FULL AND REPLACED WITH CURB DEPRESSION OR, THE HEAD OF THE CURB SHALL BE REMOVED BY SAWCUT FOLLOWED BY AN APPLICATION OF LINSEED OIL APPROVED BY THE VILLAGE. TRANSITION FROM FULL TO DEPRESSED CURB SHALL BE ACCOMPLISHED IN A MINIMUM OF ONE LINEAL FOOT.
4. A MINIMUM OF 4" OF CA-6, TYPE B MUST BE PLACED AND MECHANICALLY COMPACTED PRIOR TO CONCRETE PLACEMENT.
5. APRON SHALL BE POURED SEPARATELY FROM SIDEWALK AND CURB.
6. GRANULAR BASE AND FORMWORK MUST BE INSPECTED BY VILLAGE PRIOR TO PLACEMENT OF CONCRETE.

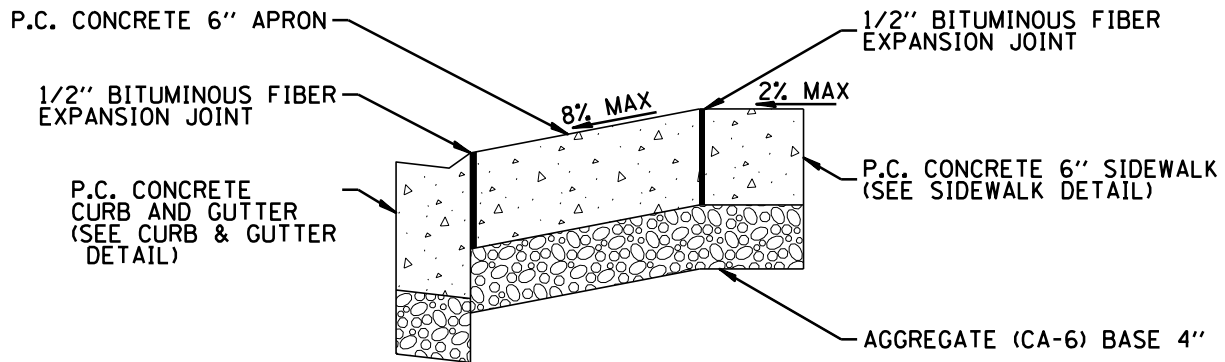
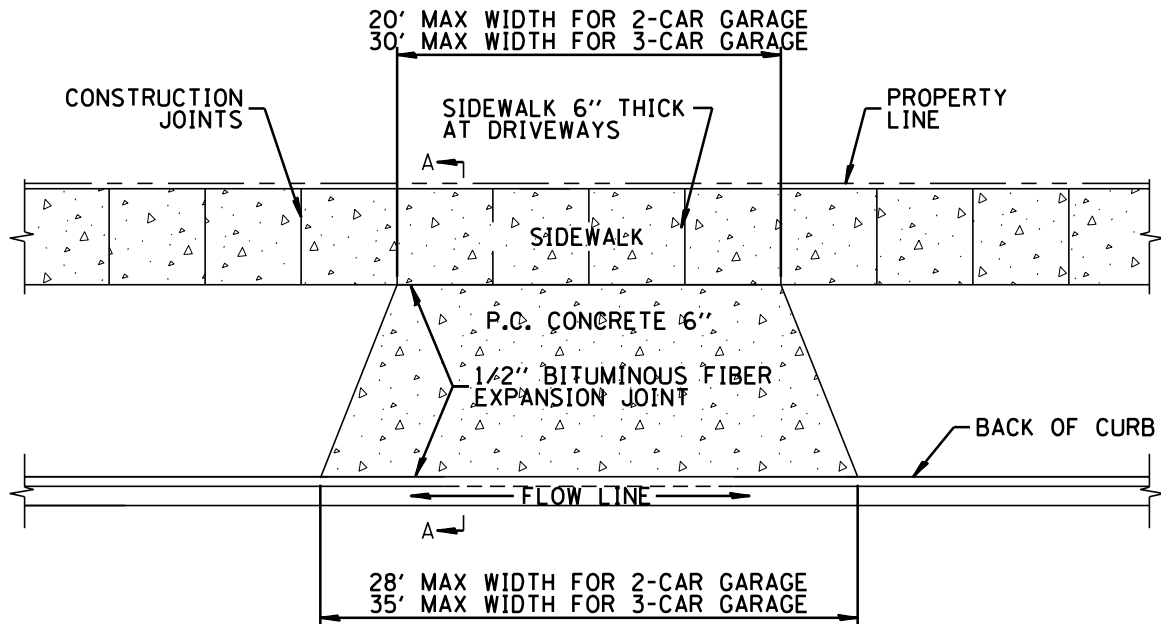


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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
PCC DRIVEWAY APRON -
COMMERCIAL/INDUSTRIAL

DRAWN:	DJD	SHEET 25 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

ROW 05



SECTION A-A

NOTES:

1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO IDOT CLASS PV, 3500 PSI @ 14 DAYS, SLUMP 3", AND 6% AIR ENTRAINMENT.
2. CONSTRUCTION JOINTS SHALL BE PLACED IN A UNIFORM MANNER THAT ALLOWS NO SINGLE SLAB TO BE MORE THAN A 10' X 10' SECTION.
3. WHERE THE PROPOSED ENTRANCE IS FRONTED BY BARRIER CURB OR THERE IS A DESIRE TO CHANGE A PORTION OF THE EXISTING CURB AND GUTTER CROSS SECTION, THE CURB AND GUTTER SHALL EITHER BE REPLACED IN FULL AND REPLACED WITH CURB DEPRESSION, OR THE HEAD OF THE CURB SHALL BE REMOVED BY SAWCUT FOLLOWED BY AN APPLICATION OF LINSEED OIL APPROVED BY THE VILLAGE. TRANSITION FROM FULL TO DEPRESSED CURB SHALL BE ACCOMPLISHED IN A MINIMUM OF ONE LINEAL FOOT.
4. A MINIMUM OF 4" OF CA-6, TYPE B MUST BE PLACED AND MECHANICALLY COMPACTED PRIOR TO CONCRETE PLACEMENT.
5. APRON SHALL BE POURED SEPARATELY FROM SIDEWALK AND CURB.
6. GRANULAR BASE AND FORMWORK MUST BE INSPECTED BY VILLAGE PRIOR TO PLACEMENT OF CONCRETE.

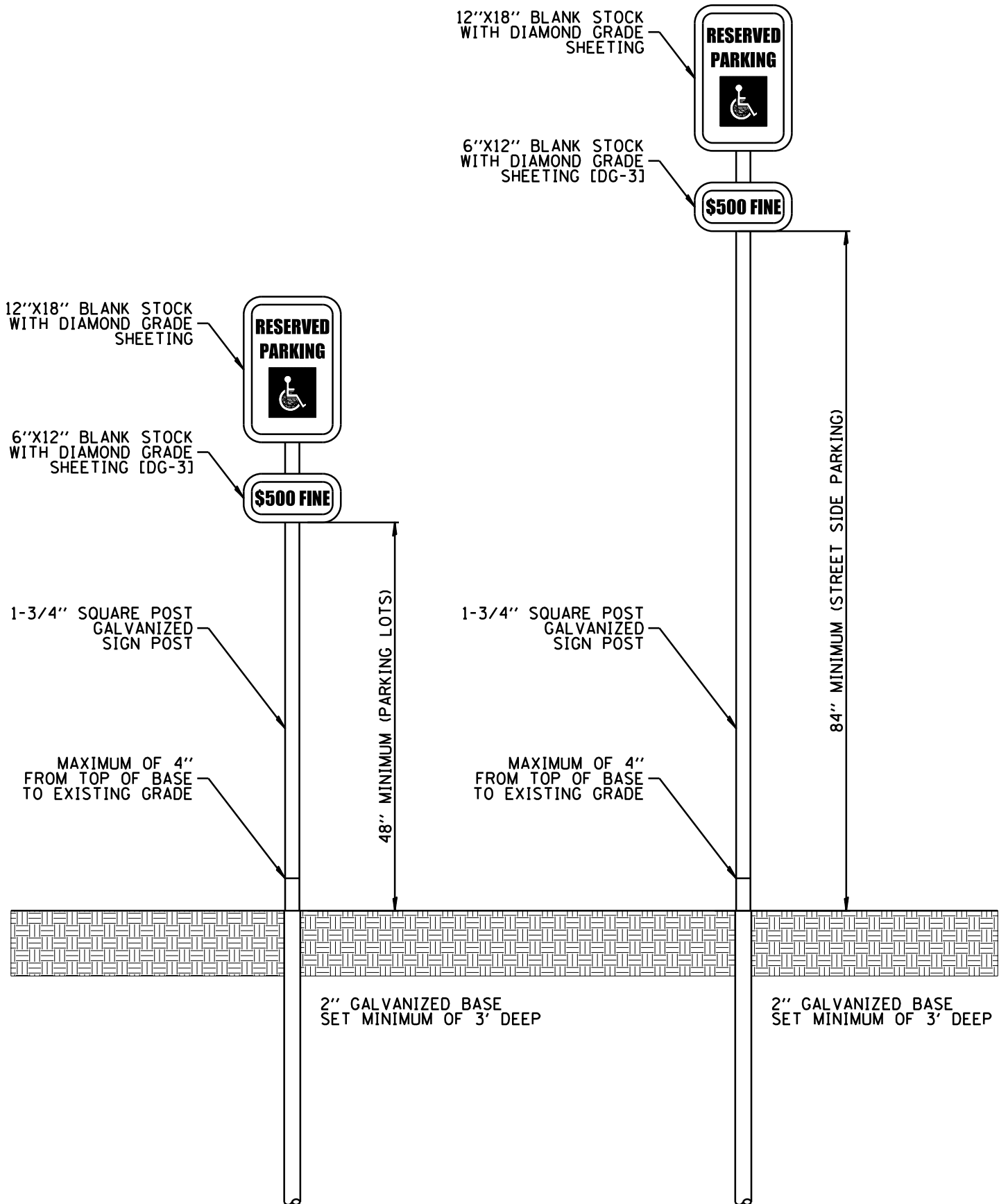


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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
PCC DRIVEWAY APRON -
RESIDENTIAL

DRAWN:	DJD	SHEET 26 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

ROW 06

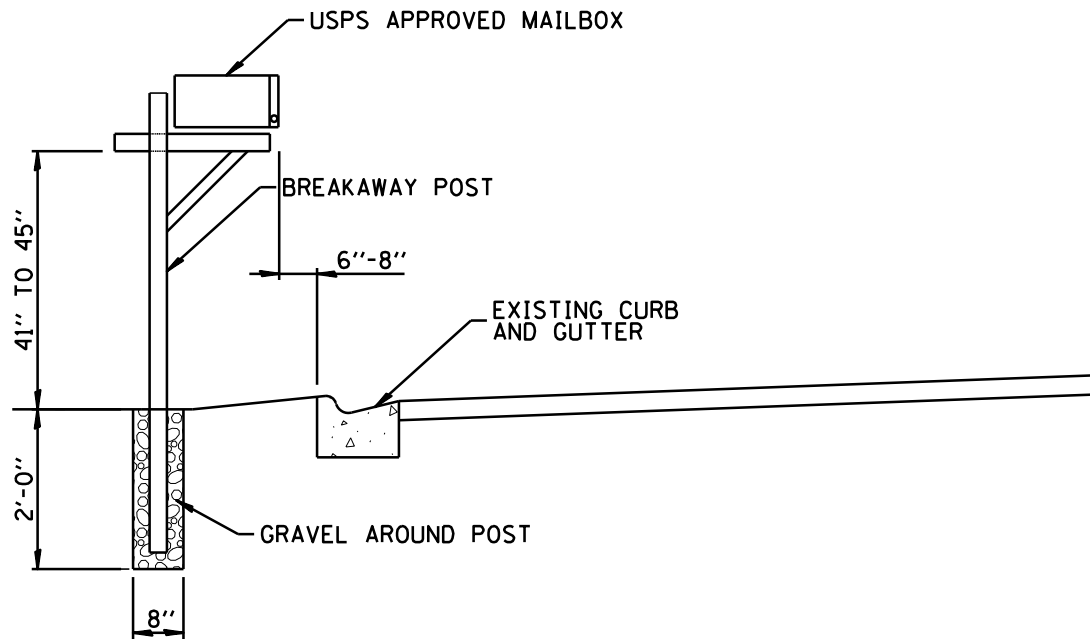


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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
ACCESSIBLE SIGNAGE**

DRAWN:	DJD	SHEET 27 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

ROW 07



NOTES:

1. ADDRESS NUMBER SHALL BE CLEARLY LABELED ON MAILBOX DOOR.
2. ALL MAILBOX POSTS AND HORIZONTAL SUPPORT ARMS SHALL BE MADE OF 4"X4" CHEMICALLY TREATED LUMBER. POSTS AND SUPPORT ARMS SHALL BE ATTACHED USING GALVANIZED SCREWS.
3. MAILBOX POSTS SHALL NOT BE REINFORCED OR FORTIFIED SO AS TO PREVENT OR HAMPER ITS DESTRUCTION UPON BEING STRUCK BY THE VEHICLE.
4. NO MASONRY OR STONE MAILBOX ENCLOSURES ARE ALLOWED.



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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
DOMESTIC MAILBOX

DRAWN:	DJD	SHEET 28 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

ROW 08

STREET NAME SIGNAGE

Newburgh Ln

REGULATORY SIGN

SPEED
LIMIT

25

MPH

7'-0" (MIN.)

10'-0" (MIN.)

1-3/4" SQUARE
POST GALVANIZED
12 GAUGE SQUARE
TELESPAR
10 OR 12 FOOT
LONG POST

1-3/4" SQUARE POST
12 GAUGE SQUARE
TELESPAR
12 FOOT LONG POST
BLACK POWDER
COAT FINISH

BREAK AWAY
OMNI ANCHOR 3'

BREAK AWAY
OMNI ANCHOR 3'

4" MIN.

4" MIN.

2'-6" (MIN.)

NOTES:

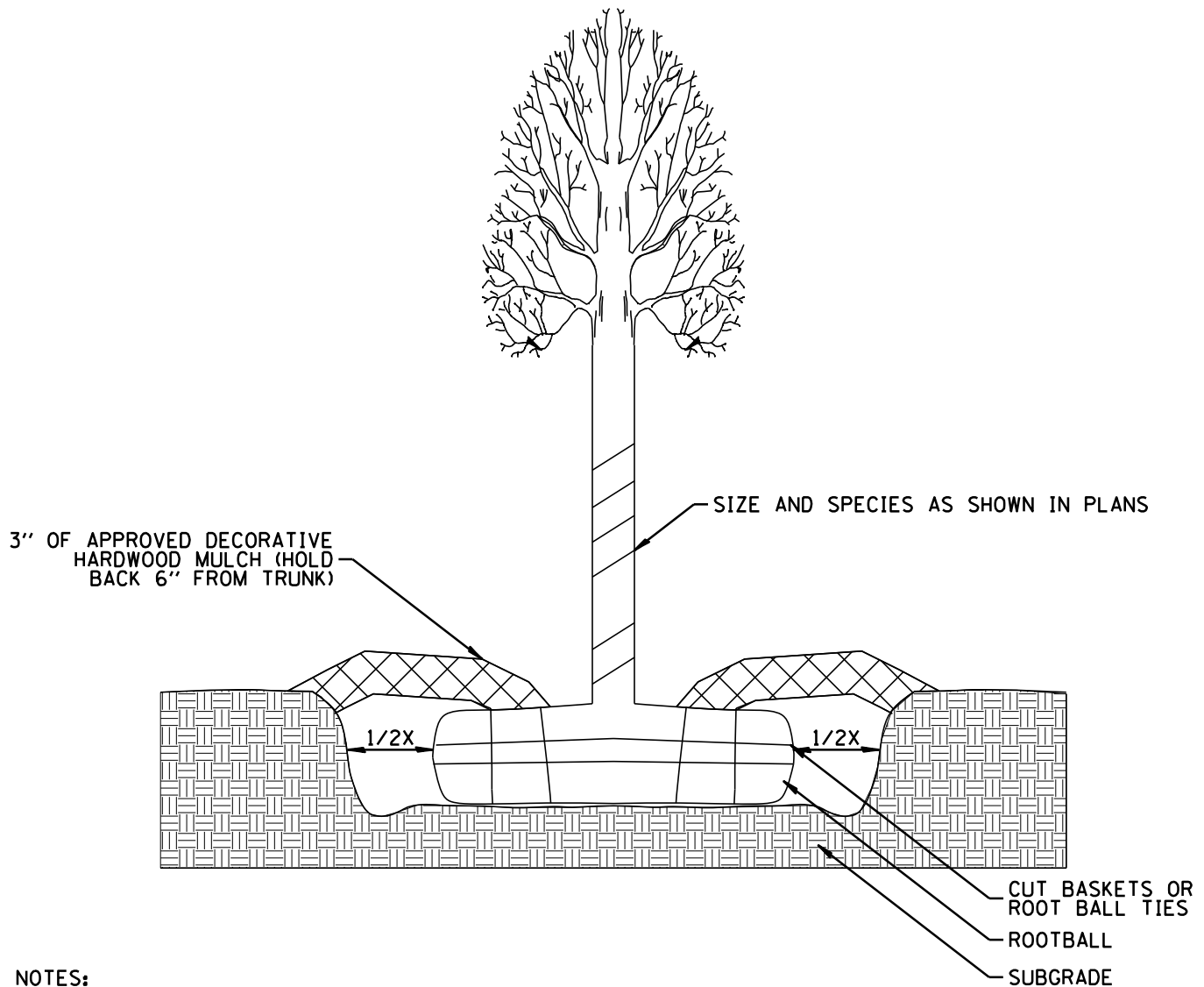
1. ALL SIGNAGE IS TO BE PLACED 3 (THREE) FEET BEHIND BACK OF CURB.
2. ALL SIGNS ARE TO BE FACED CORRECTLY.
3. ALL SIGNS SHALL BE CLEAN AND READABLE.
4. ALL EXISTING SIGNAGE SHALL BE INSTALLED IN SOME FASHION AT THE END OF EACH WORKING DAY.
5. ALL SIGNS SHALL MEET THE M.U.T.C.D. CODE.
6. ALL SIGNS ARE TO BE MADE OF DIAMOND GRADE DG3 REFLECTIVE SHEETING.
7. WHERE THERE IS A SHOULDER SIGN SHOULD BE 11' FROM PAVEMENT EDGE.



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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
STREET SIGNAGE

DRAWN:	DJD	SHEET 29 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		ROW 09
REV 2:		
REV 3:		



NOTES:

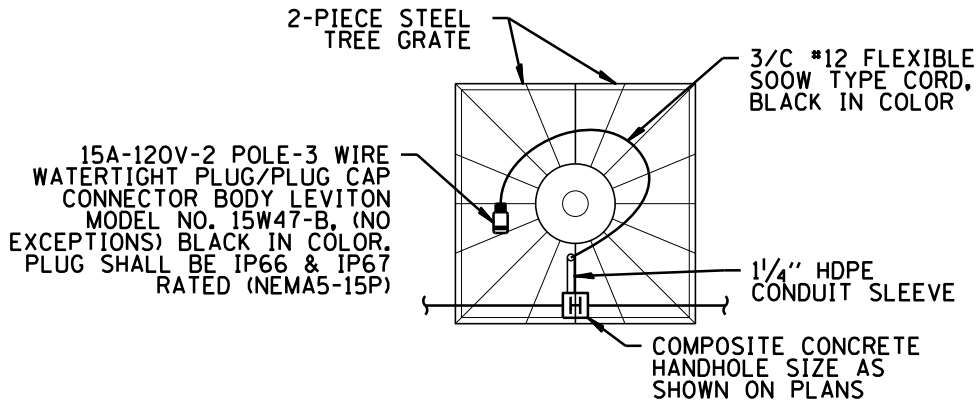
1. ALL PARKWAYS WITHIN THE DEDICATED STREET AREA OR OTHER PUBLIC USE AREAS SHALL BE GRADED WITH SIX INCHES (6") OF TOPSOIL AND SEEDED OR SODDED IN AN APPROVED MANNER.
2. A LIST OF THE APPROVED TREE SPECIES IS AVAILABLE FROM THE PUBLIC WORKS DEPARTMENT.
3. TREES SHALL BE BALLED AND BURLAPED AND GROWN ACCORDING TO GOOD NURSERY PRACTICES AS SPECIFIED IN THE ARBORICULTURAL SPECIFICATIONS MANUAL. SYNTHETIC BURLAP AND ROPE PRODUCTS SHALL NOT BE USED.
4. ALL TREES SHALL BE PLANTED IN A PLUMB POSITION, WITH THE ROOT FLARE RESIDING AT GRADE OR SLIGHTLY ABOVE. STAKING OF THE TREES SHALL ONLY BE PERFORMED IF NECESSARY. STAKES WILL REMAIN ON THE SPECIMENS FOR NO LONGER THAN ONE (1) YEAR.
5. NO SOIL AMENDMENTS SHALL BE ALLOWED.
6. 3" OF APPROVED DECORATIVE MULCH WILL BE INSTALLED AT THE TIME OF PLANTING (OVER THE ENTIRE ROOT ZONE).
7. CUT ROPE FROM AROUND TRUNK AND PEEL BACK BURLAP FROM TOP 1/3 OF ROOT BALL.



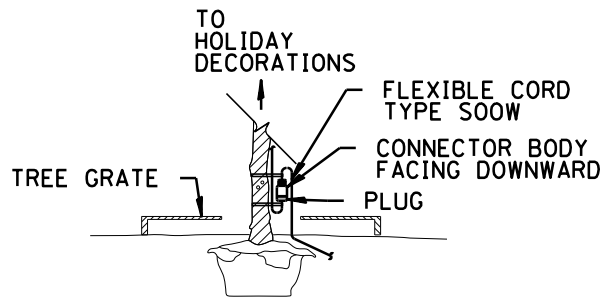
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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
TREE PLANTING**

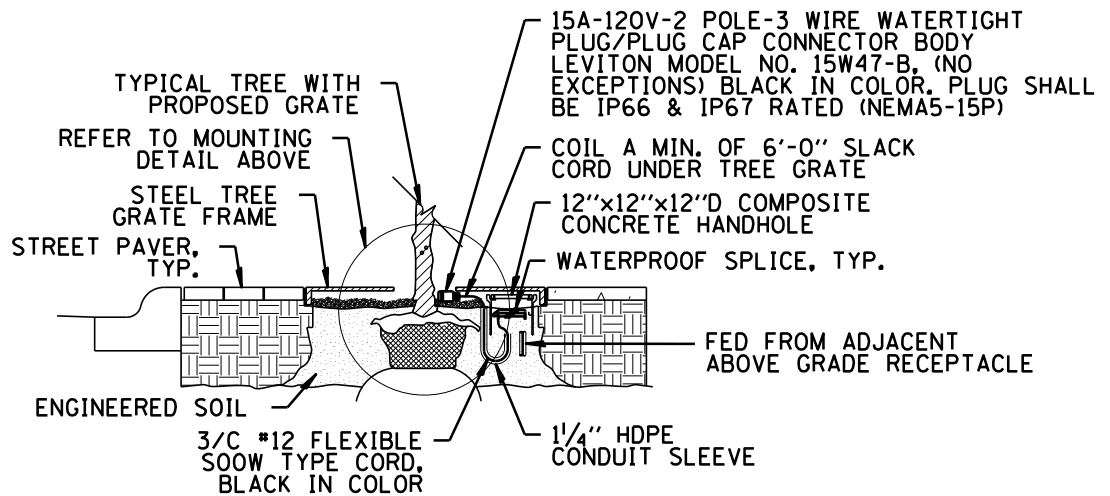
DRAWN:	DJD	SHEET 30 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		ROW 10
REV 2:		
REV 3:		



PLAN VIEW



MOUNTING DETAIL FOR IN USE SERVICE



NOTES:

1. THE PROPOSED WATERTIGHT CORD CONNECTORS SHOWN SHALL BE USED IN CONJUNCTION WITH ONLY CORRESPONDING LEVITON WATERTIGHT PLUG MODEL NO. 14W47-B, (NO EXCEPTIONS) BLACK IN COLOR, RATED IN-USE PER NEC.
2. CONTRACTOR SHALL SUPPLY SEPARATE CORD SET, 10 FT. IN LENGTH AND BLACK IN COLOR, WITH MATCHING CONNECTOR ENDS (ONE END W/ PLUG AND ONE END W/ RECEPTACLE).
3. ALL MATERIAL & LABOR TO PERFORM THE WORK SHOWN ABOVE SHALL BE INCLUDED IN UNIT PRICE FOR "OUTLET SPECIAL". HANDHOLE SHALL BE PAID FOR SEPARATELY.
4. ALL TREE GRATE RECEPTACLES SHALL BE GFI PROTECTED THRU ADJACENT ABOVE GRADE GFI RECEPTACLE IN RAISED PLANTERS AS SHOWN ON PLAN DRAWINGS.

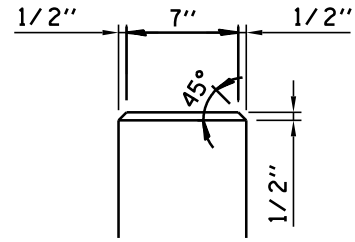


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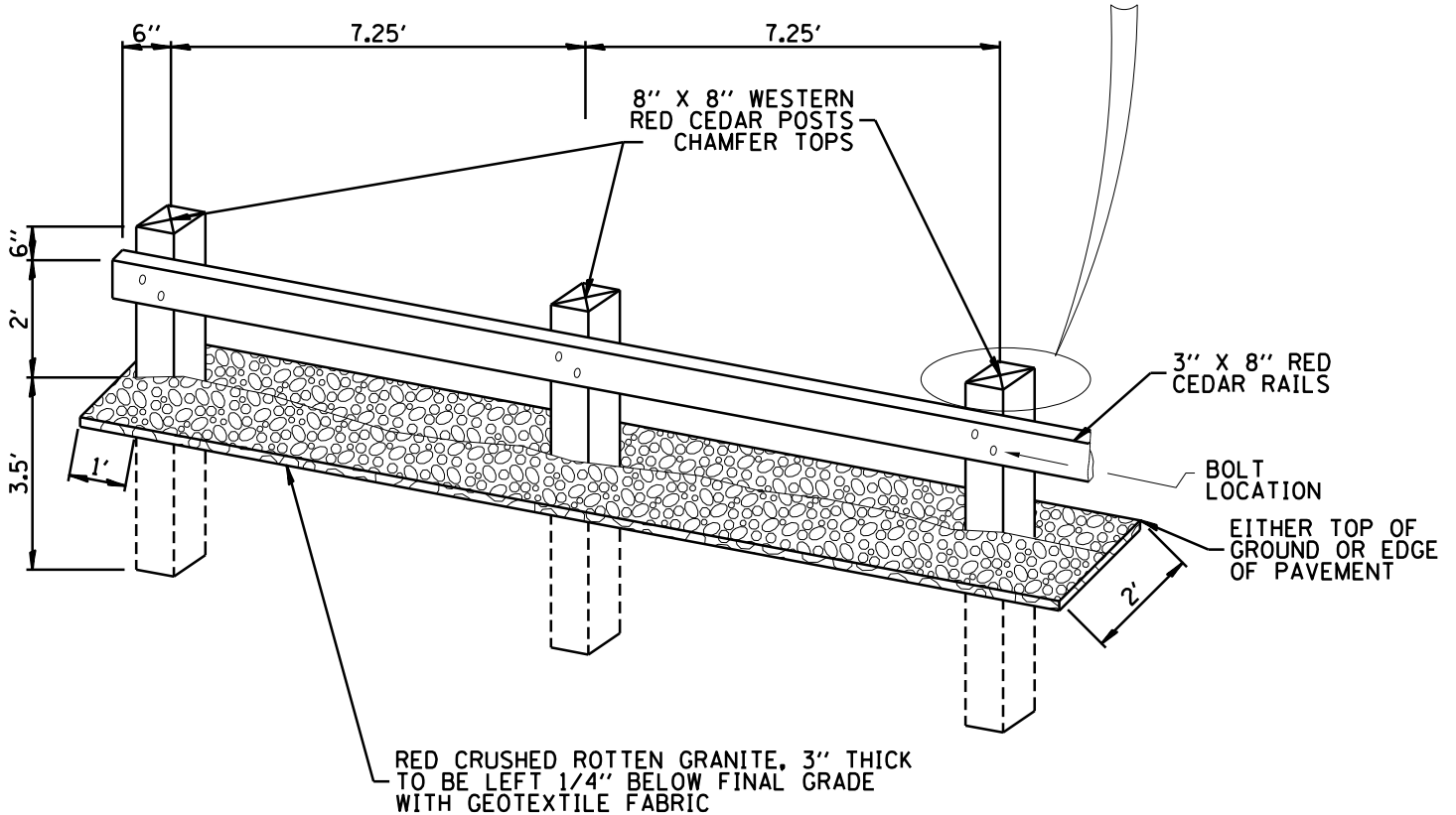
**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
URBAN TREE PLANTING WELL
WITH ELECTRICAL OUTLET**

DRAWN:	DJD	SHEET 31 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

ROW 11



CHAFFER DETAIL



RED CEDAR RAIL

NOTES:

1. INSTALLATION TO INCLUDE ALL POSTS SET 3.5' (MIN) DEPTH, 12" (MIN) DIAMETER.
2. ALL RAILS SHALL BE BOLTED WITH 12" LONG GALVANIZED CARRIAGE BOLTS, NUTS, AND WASHERS COATED WITH ANTI-SEIZE LUBRICANT; BOLT DIAMETER 1/2". NUTS AND BOLTS TO BE COUNTERSUNK INTO THE BACK OF UPRIGHT POSTS AND FLUSH WITH THE SURFACE.
3. WHEN USED AS DEAD-END ROADWAY TREATMENT, INSTALL 18"x18" MUTCD OM4-1 RED REFLECTOR WARNING SIGNS MOUNTED BEHIND THE RED CEDAR RAIL WITH A MINIMUM HEIGHT OF 4' ABOVE FINAL GRADE WITH A MAXIMUM SPACING OF 12'.

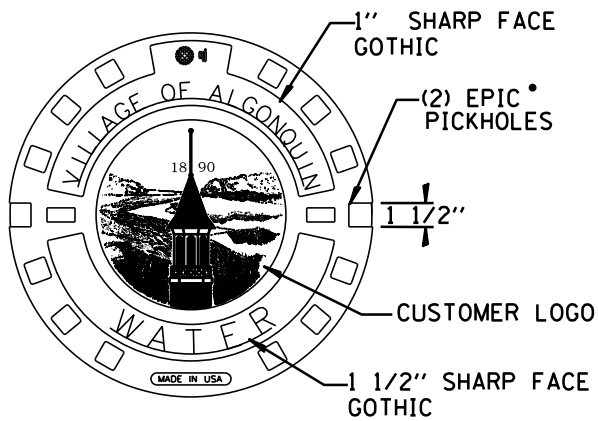


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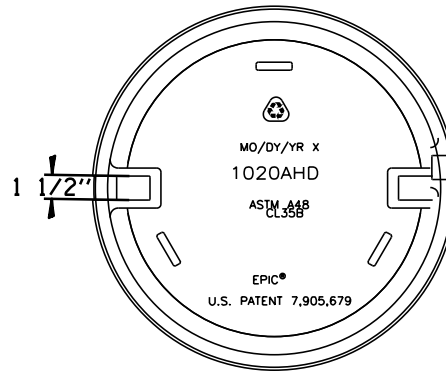
**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
RED CEDAR RAIL**

DRAWN:	DJD	SHEET 32 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

ROW 12

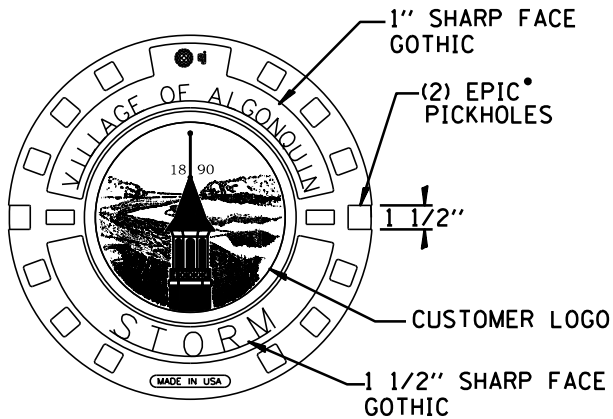


TOP VIEW

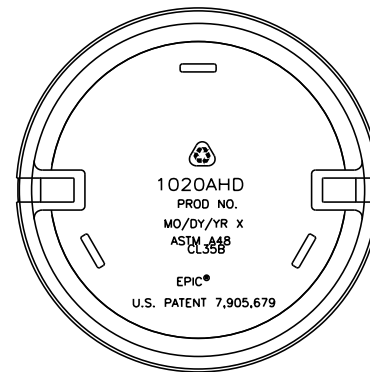


BOTTOM VIEW

• PRODUCT NO 00102333

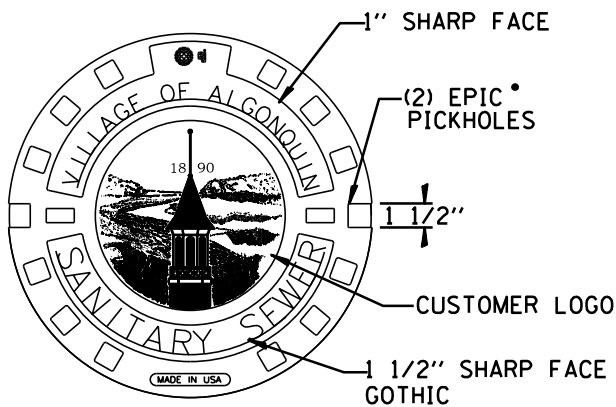


TOP VIEW

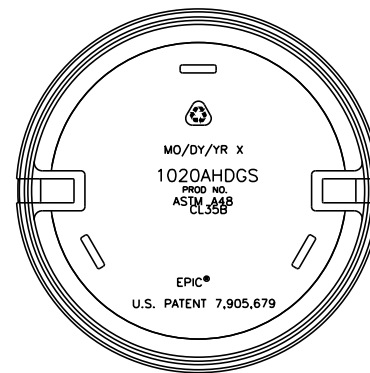


BOTTOM VIEW

• PRODUCT NO 00102332

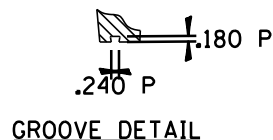


TOP VIEW



BOTTOM VIEW

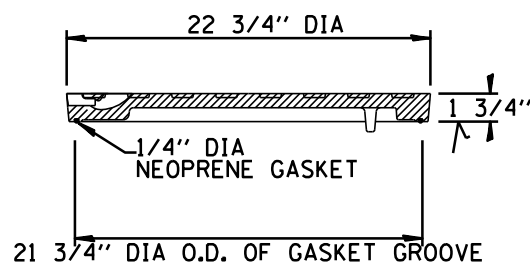
• PRODUCT NO 00102334



GROOVE DETAIL



EPIC® DETAIL



CROSS SECTION

NOTES:

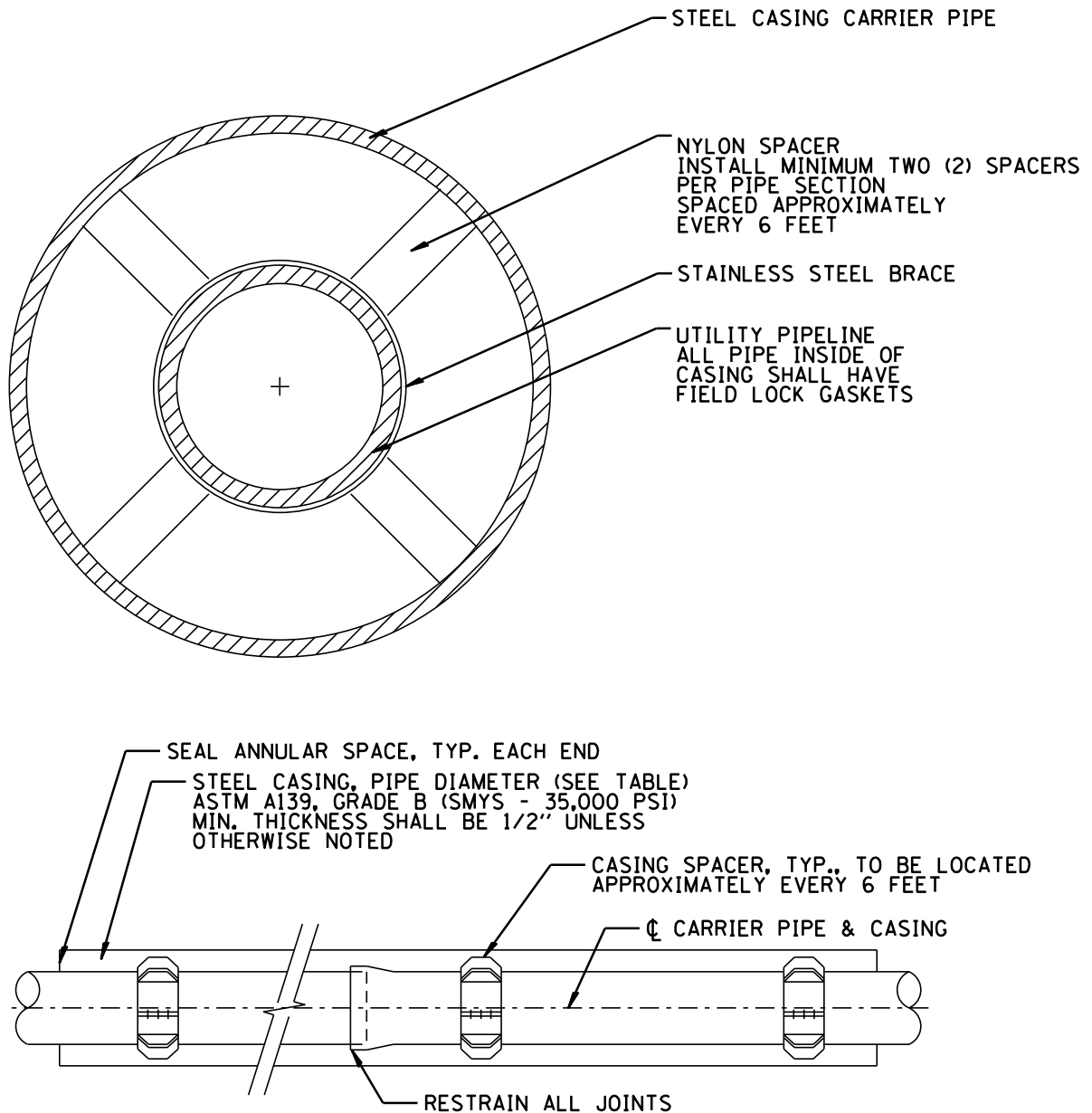
1. ALL LIDS SHALL HAVE SELF-SEALING GASKETS.
2. NOTES: CONTACT FOR ORDER AND LEAD TIME: EJIW PHONE NUMBER: 815-740-1640



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VILLAGE OF ALGONQUIN
UTILITY DETAILS
MANHOLE COVER W/ LOGO

DRAWN:	DJD	SHEET 33 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		UTL 01
REV 2:		
REV 3:		



NOTES:

1. CASING PIPE SHALL BE MADE OF STEEL OF MINIMUM THICKNESS OF 1/2 INCH WITH MINIMUM YIELD STRENGTH OF 35,000 PSI CONFORMING TO ASTM A139 GRADE A WITH CONTINUOUS FIELD WELDED BUTT JOINTS IN CONFORMANCE WITH AWWA C206.
2. ENDS OF CASING PIPE SHALL HAVE A PREFORMED RUBBER SEAL.
3. ALL CARRIER PIPES INSIDE OF CASING SHALL HAVE RESTRAINED JOINTS.
4. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.

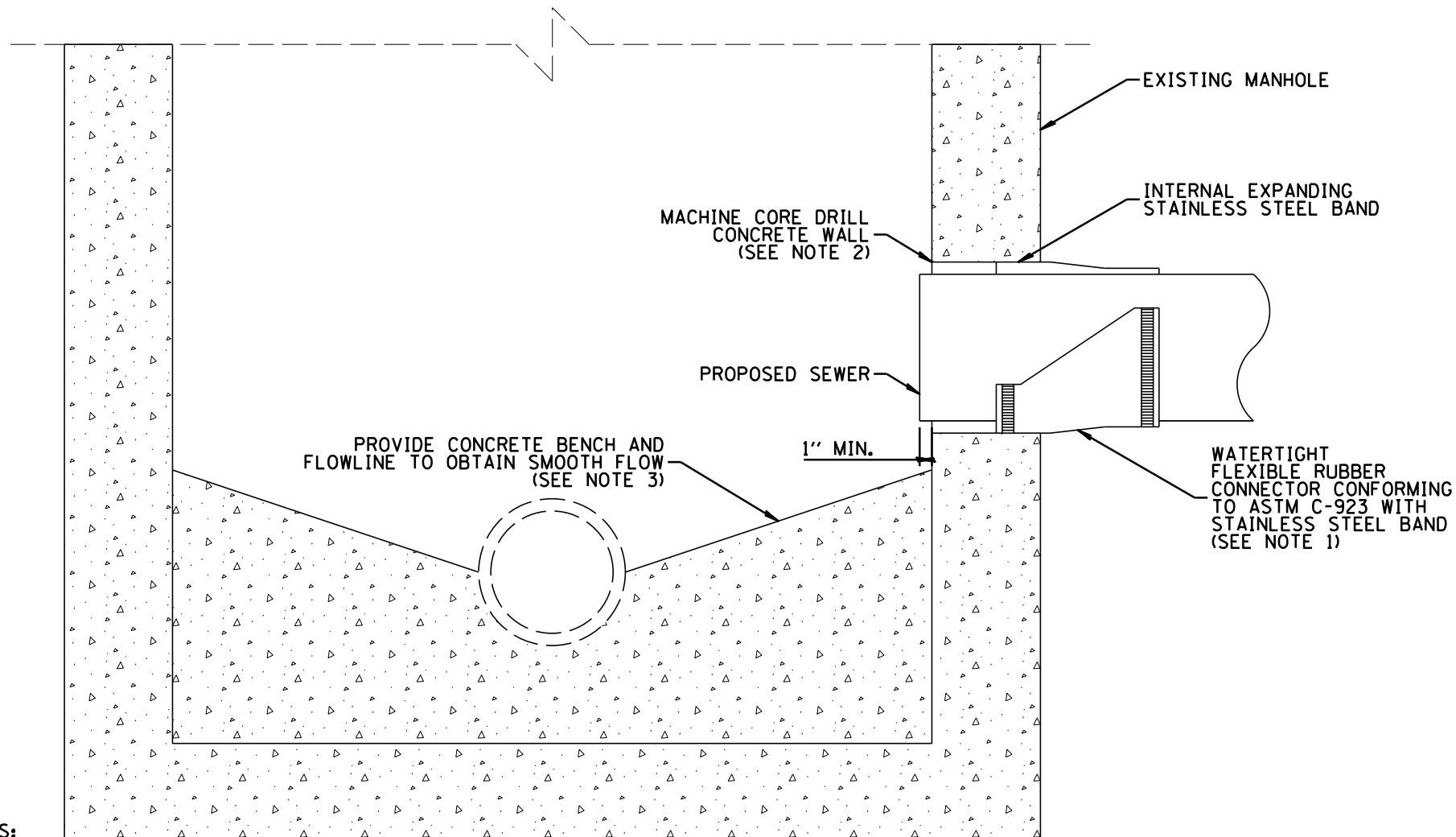
CARRIER PIPE DIA.	STEEL CASING PIPE DIA.(MIN.)
8"	16"
10"	18"
12"	20"
14"	24"
16"	24"
20"	30"



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**VILLAGE OF ALGONQUIN
UTILITY DETAILS
CASING PIPE**

DRAWN:	DJD	SHEET 34 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		UTL 02
REV 2:		
REV 3:		



NOTES:

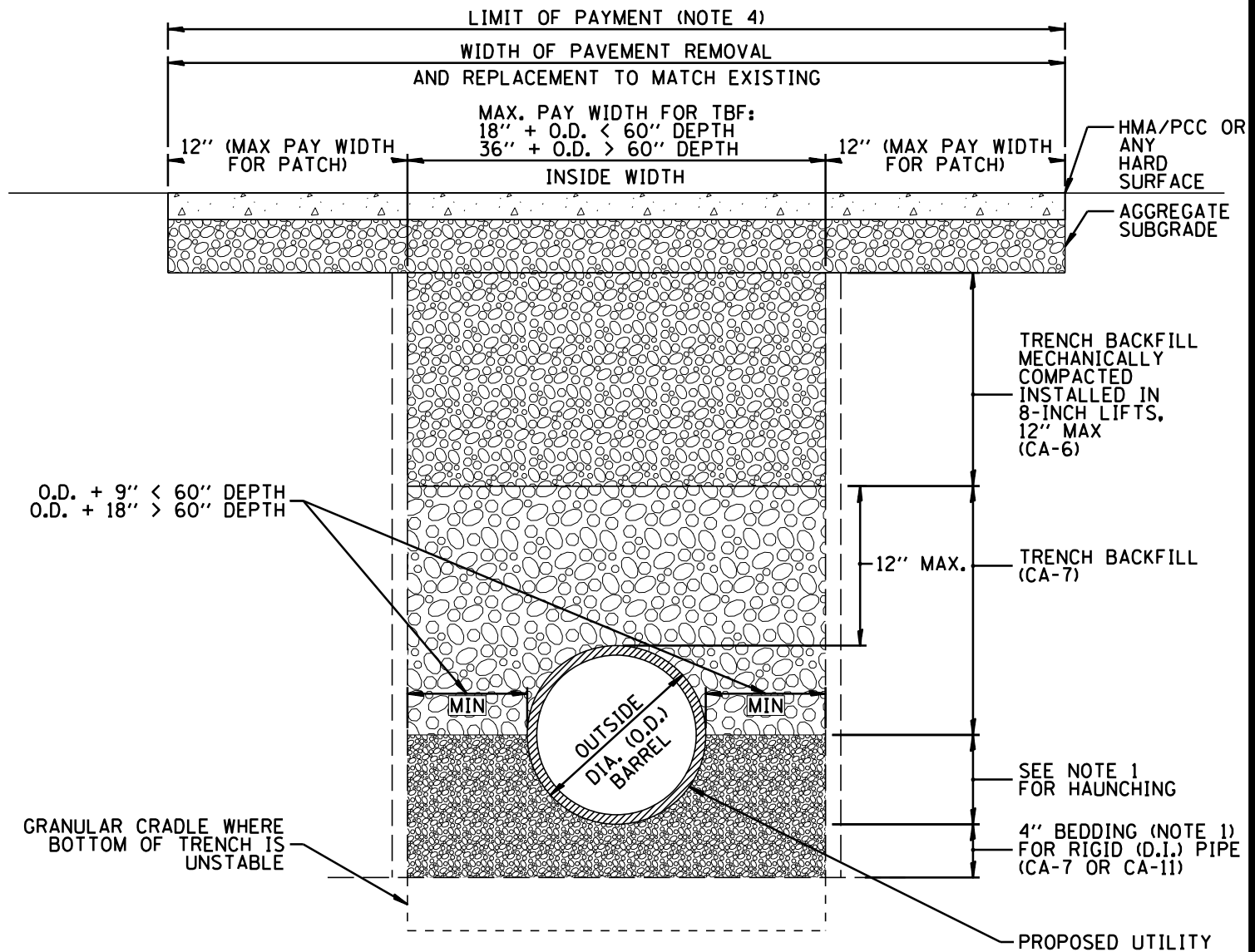
1. DETAIL TO BE USED FOR ANY STORM OR SANITARY CONNECTION TO EXISTING UTILITY STRUCTURE.
2. RESILIENT CONNECTOR COMPLYING WITH ASTM STANDARD C-923 (MOST RECENT EDITION) SHALL BE USED.
3. MACHINE CORE/DRILL CIRCULAR OPENING IN STRUCTURE WALL. OPENING DIAMETER TO FIT THE REQUIRED RESILIENT CONNECTOR PER MANUFACTURER'S RECOMMENDATION.
4. CUT, SHAPE, AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW.
5. CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT, CONCRETE, OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.
6. ANY DAMAGE TO THE EXISTING MANHOLE SHALL BE REPAIRED BY THE CONTRACTOR.
7. REINFORCED CONCRETE COLLAR MAY BE SUBSTITUTED FOR PIPE DIAMETERS LARGER THAN 30-INCHES.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
CONNECTION TO EXISTING UTILITY STRUCTURE**

DRAWN:	DJD	SHEET 35 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		UTL 03
REV 2:		
REV 3:		



TYPICAL TRENCH BACKFILL FOR PAVED AREAS

NOTES:

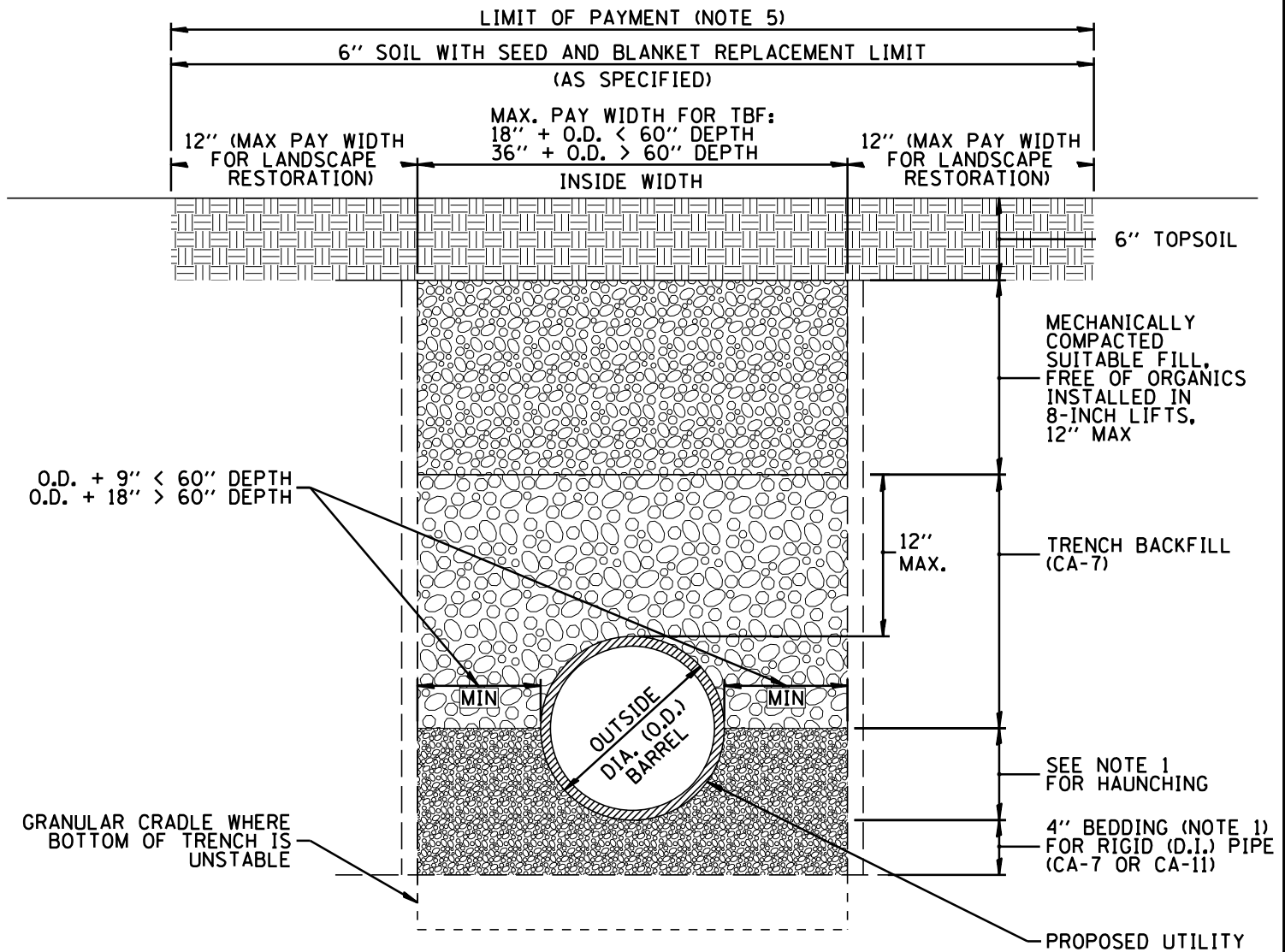
1. **BEDDING/HAUNCHING:**
 - A. FOR FLEXIBLE (PVC) PIPE THE BEDDING/HAUNCHING MATERIAL SHALL CONFORM TO IDOT CA-7 OR CA-11 GRADATION.
 - B. FOR RIGID (D.I.) PIPE THE BEDDING MATERIAL SHALL BE CA-7 OR CA-11, AND THE HAUNCHING SHALL MATCH THE TRENCH BACKFILL MATERIAL.
2. AFTER BEDDING HAS BEEN PLACED/COMPACTED/BROUGHT TO GRADE, PLACE AND COMPACT HAUNCHING TO PIPE SPRING LINE.
3. PLACE INITIAL BACKFILL IN TWO STAGES AS FOLLOWS: 1ST STAGE - PLACE & COMPACT TO TOP OF PIPE 2ND STAGE - PLACE & COMPACT AT LEAST 12" OVER TOP OF PIPE.
4. CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION BEYOND THE LIMIT OF PAYMENT AS SHOWN.
5. TRENCH BACKFILL IS REQUIRED FOR ALL TRENCHES WITHIN 2-FEET OF ANY HARD SURFACE. TRENCH BACKFILL IS REQUIRED WITHIN 5-FEET OF ANY HARD SURFACE IF DEPTH OF TRENCH IS 10-FEET OR GREATER.
6. COMPACTION SHALL BE EXECUTED IN MINIMUM 8-INCH LIFTS WHEN USING A MEDIUM COMPACTOR (APPROXIMATELY 180-280 LB) OR IN 12-INCH LIFTS WHEN USING A HEAVY COMPACTOR (APPROXIMATELY 1,000 LB).
7. JET COMPACTION IS PROHIBITED.



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**VILLAGE OF ALGONQUIN
UTILITY DETAILS
TRENCH BACKFILL & RESTORATION - PAVEMENT**

DRAWN:	DJD	SHEET 36 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		UTL 04
REV 2:		
REV 3:		



NOTES:

TYPICAL TRENCH BACKFILL FOR PARKWAY AREAS

1. BEDDING/HAUNCHING:
 - A. FOR FLEXIBLE (PVC) PIPE THE BEDDING/HAUNCHING MATERIAL SHALL CONFORM TO IDOT CA-7 OR CA-11 GRADATION.
 - B. FOR RIGID (D.I.) PIPE THE BEDDING MATERIAL SHALL BE CA-7 OR CA-11, AND THE HAUNCHING SHALL MATCH THE TRENCH BACKFILL MATERIAL.
2. AFTER BEDDING HAS BEEN PLACED/COMPACTED/BROUGHT TO GRADE, PLACE AND COMPACT HAUNCHING TO PIPE SPRING LINE.
3. PLACE INITIAL BACKFILL IN TWO STAGES AS FOLLOWS: 1ST STAGE - PLACE & COMPACT TO TOP OF PIPE 2ND STAGE - PLACE & COMPACT AT LEAST 12" OVER TOP OF PIPE.
4. VOIDS LEFT BY SHEETING/BRACING WHEN REMOVED SHALL BE FILLED WITH FINE SAND AND SHALL BE CONSIDERED INCIDENTAL TO THE WORK. SHEETING TO BE LEFT IN PLACE WHEN SPECIFIED ON THE PLANS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION BEYOND THE LIMIT OF PAYMENT AS SHOWN.
6. TRENCH BACKFILL IS REQUIRED FOR ALL TRENCHES WITHIN 2-FEET OF ANY HARD SURFACE. TRENCH BACKFILL IS REQUIRED WITHIN 5-FEET OF ANY HARD SURFACE IF DEPTH OF TRENCH IS 10-FEET OR GREATER.
7. COMPACTION SHALL BE EXECUTED IN MINIMUM 8-INCH LIFTS WHEN USING A MEDIUM COMPACTOR (APPROXIMATELY 180-280 LB) OR IN 12-INCH LIFTS WHEN USING A HEAVY COMPACTOR (APPROXIMATELY 1,000 LB). 85% STANDARD PROCTOR DENSITY IS REQUIRED FOR PARKWAY AREAS.
8. JET COMPACTION IS PROHIBITED.

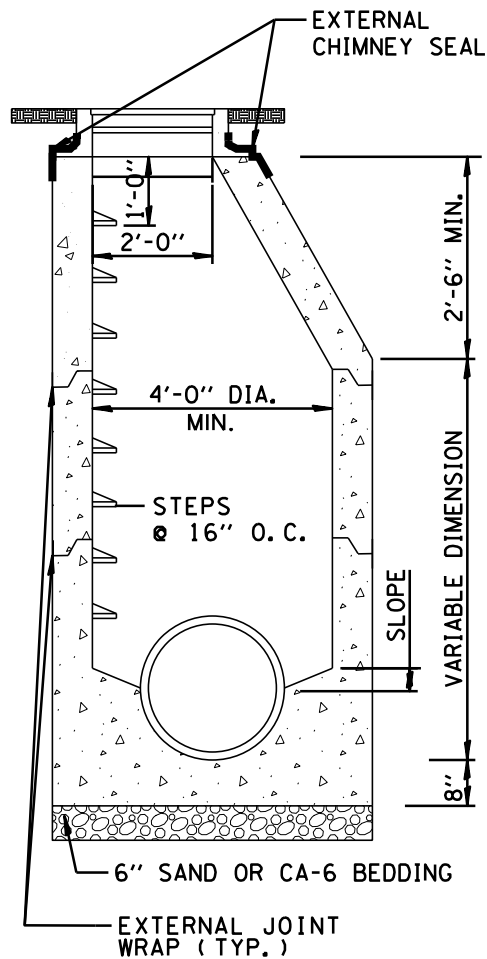


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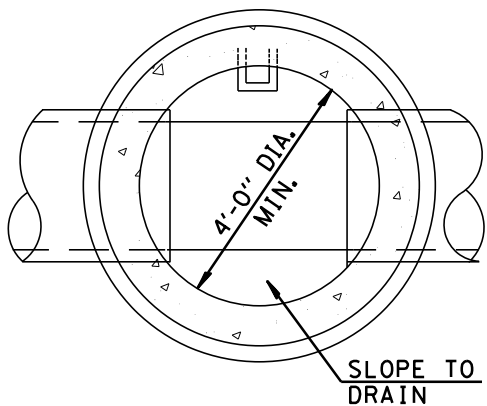
VILLAGE OF ALGONQUIN UTILITY DETAILS TRENCH BACKFILL & RESTORATION - PARKWAY

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APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

UTL 05



PROFILE VIEW



PLAN VIEW

NOTES:

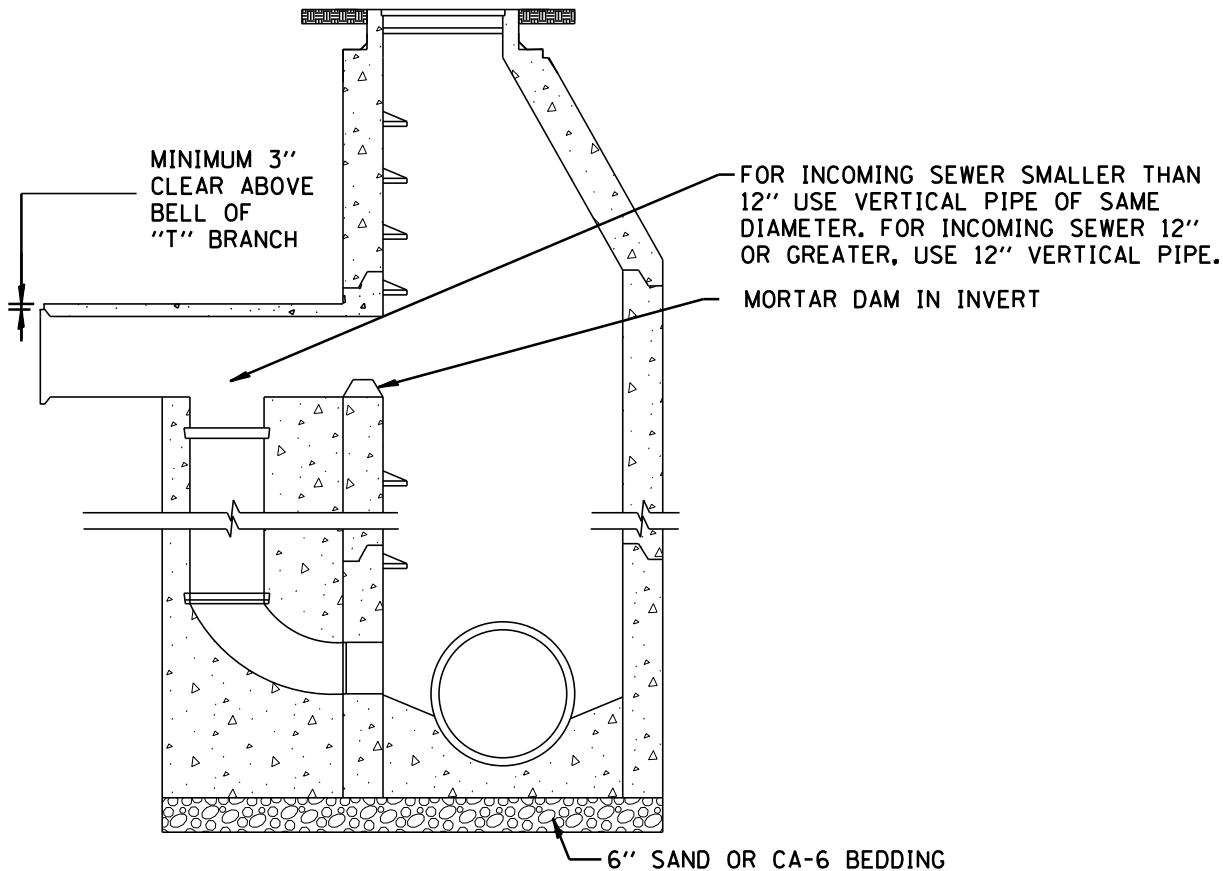
1. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 5" FOR 4'-0" INSIDE DIAMETER AND 6" FOR 5'-0" INSIDE DIAMETER STRUCTURES.
2. STRUCTURES SHALL BE 4'-0" INSIDE DIAMETER FOR MAIN SEWER 18" DIAMETER AND LESS, AND STRUCTURE DEPTH OF 20' OR LESS. STRUCTURES SHALL BE 5'-0" INSIDE DIAMETER FOR MAIN SEWER 21" DIAMETER AND LARGER, AND STRUCTURE DEPTH MORE THAN 20'.
3. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
4. ALL EXTERIOR SURFACES OF STRUCTURE SHALL HAVE A FACTORY APPLIED BITUMINOUS COATING.
5. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A MINIMUM 9" WIDE POLYETHYLENE EXTERNAL CHIMNEY SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
6. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND MIN. 4" OF THE UPPER CONE SECTION.
7. STRUCTURE STEPS SHALL BE MADE OF STEEL REINFORCED PLASTIC USING AN APPROVED PLASTIC MEETING ASTM D4101, TYPE 11, GRADE 49108, OVER #3 GRADE 60, ASTM A615 REINFORCING BAR. STEPS SHALL BE AT 16" CENTERS.
8. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
9. STRUCTURE LID SHALL HAVE A 1" CONCEALED PICKHOLE AND HAVE THE WORD "SANITARY" AND VILLAGE LOGO CAST INTO IT.
10. THE RIM ELEVATION FOR STRUCTURES WITHIN THE FLOODPLAIN MUST BE SET 24" ABOVE THE BASE FLOOD ELEVATION. FRAME AND LID MUST BE WATER-TIGHT LOCK DOWN.
11. PIPE CONNECTIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS AND FLEXIBLE MANHOLE COUPLINGS. CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE WITH THE USE OF MACHINE -CORED OPENINGS AND FLEXIBLE MANHOLE COUPLINGS.
12. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.
13. A FOUR INCH PRECAST RING SHALL BE FACTORY INSTALLED ON ALL FLATOP STRUCTURES



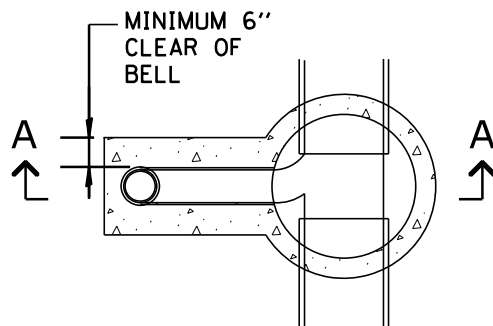
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**VILLAGE OF ALGONQUIN
UTILITY DETAILS
SANITARY MANHOLE**

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DATE:	1/21/2026	DRAWING NO.
REV 1:		SAN 01
REV 2:		
REV 3:		



SECTION A-A



PLAN VIEW

NOTES:

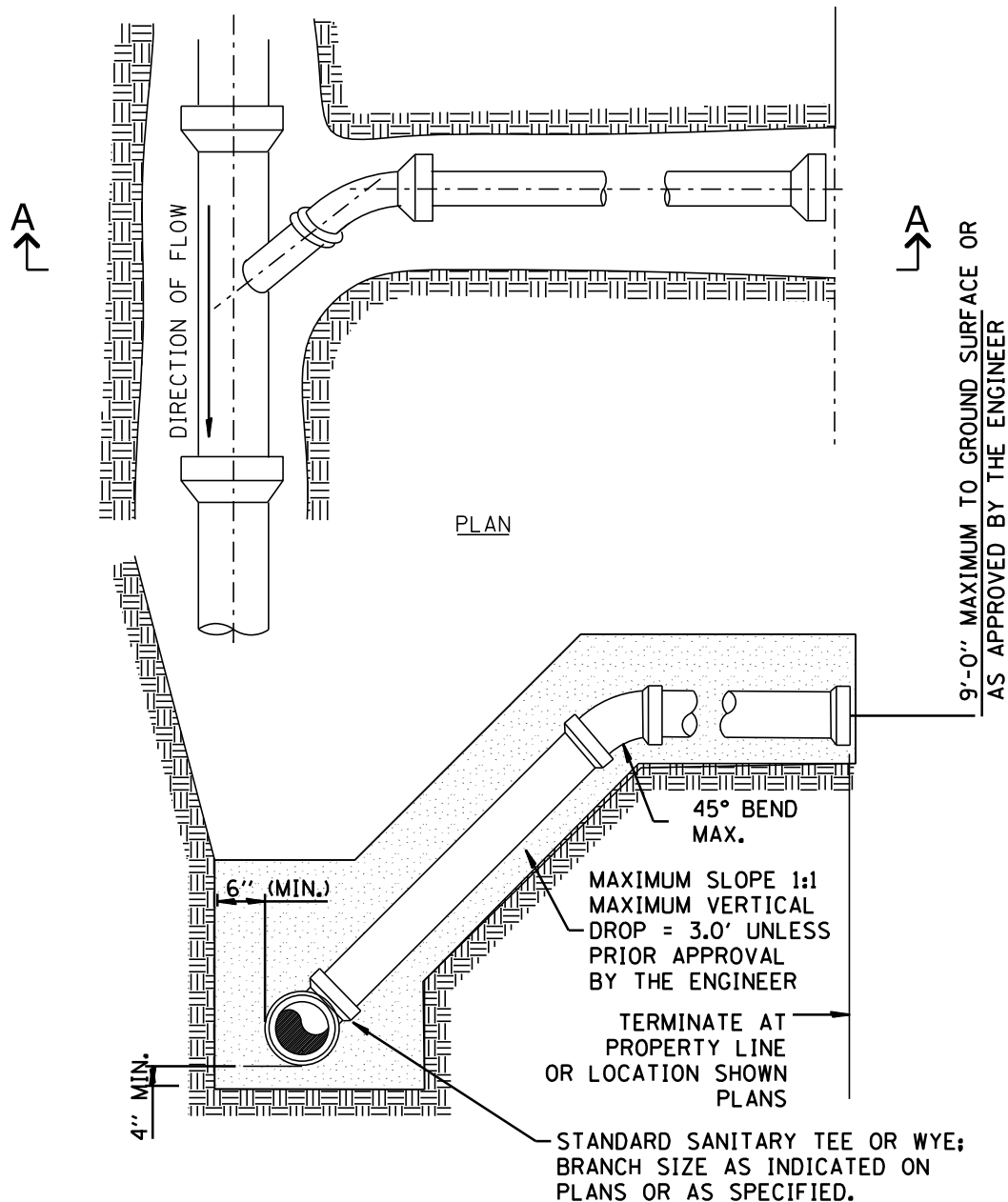
1. FRAME, LID, ADJUSTING RINGS, AND STRUCTURE PER SANITARY SEWER MANHOLE DETAIL.
2. A DROP MANHOLE SHALL BE CONSTRUCTED WHEN THE INVERT OF THE INFLUENT SEWER IS 2.0 FEET OR MORE ABOVE THE OUTLET OR MAIN SEWER INVERT.
3. SEE APPROVED VILLAGE OF ALGONQUIN PRODUCT LIST FOR MANUFACTURER AND MODEL NUMBERS.
4. A FOUR INCH PRECAST RING SHALL BE FACTORY INSTALLED ON ALL FLATOP STRUCTURES.
5. IN ADDITION TO NOTES PROVIDED, FOLLOW NOTES 1-11 OF SANITARY MANHOLE DETAIL.

VILLAGE OF ALGONQUIN
UTILITY DETAILS
SANITARY DROP MANHOLE

DRAWN:	DJD	SHEET 39 OF 96
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REV 2:		
REV 3:		



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NOTES:

1. TEE OR WYE FITTING SHALL BE ROTATED UP FROM HORIZONTAL PLANE TO PROVIDE 1% MINIMUM SLOPE FOR SERVICE LINE.
2. RISERS SHALL BE CONSTRUCTED WHERE MAIN LINE SEWER INVERT IS 10" OR MORE BELOW THE GROUND SURFACE.
3. RISER SHALL BE CONSTRUCTED OF EPOXY-LINED DUCTILE IRON PIPE TO BEYOND THE 45 DEGREE BEND IF THE SEWER MAIN IS 15' OR MORE BELOW GROUND SURFACE. NON SHEAR COUPLING THEN CAN BE USED TO JOIN THE DUCTILE IRON RISER & PVC SERVICE.
4. END PIPE OF SERVICE LINE SHALL BE SEALED WITH A WATERTIGHT STOPPER SECURED WITH A WOODEN 4x4 POST; TOP OF POST SHALL EXTEND ABOVE FINISHED GRADE WITH UPPER 12" PAINTED GREEN.
5. PIPE SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH VILLAGE OF ALGONQUIN STANDARD DETAIL FOR TRENCH SECTIONS.
6. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.

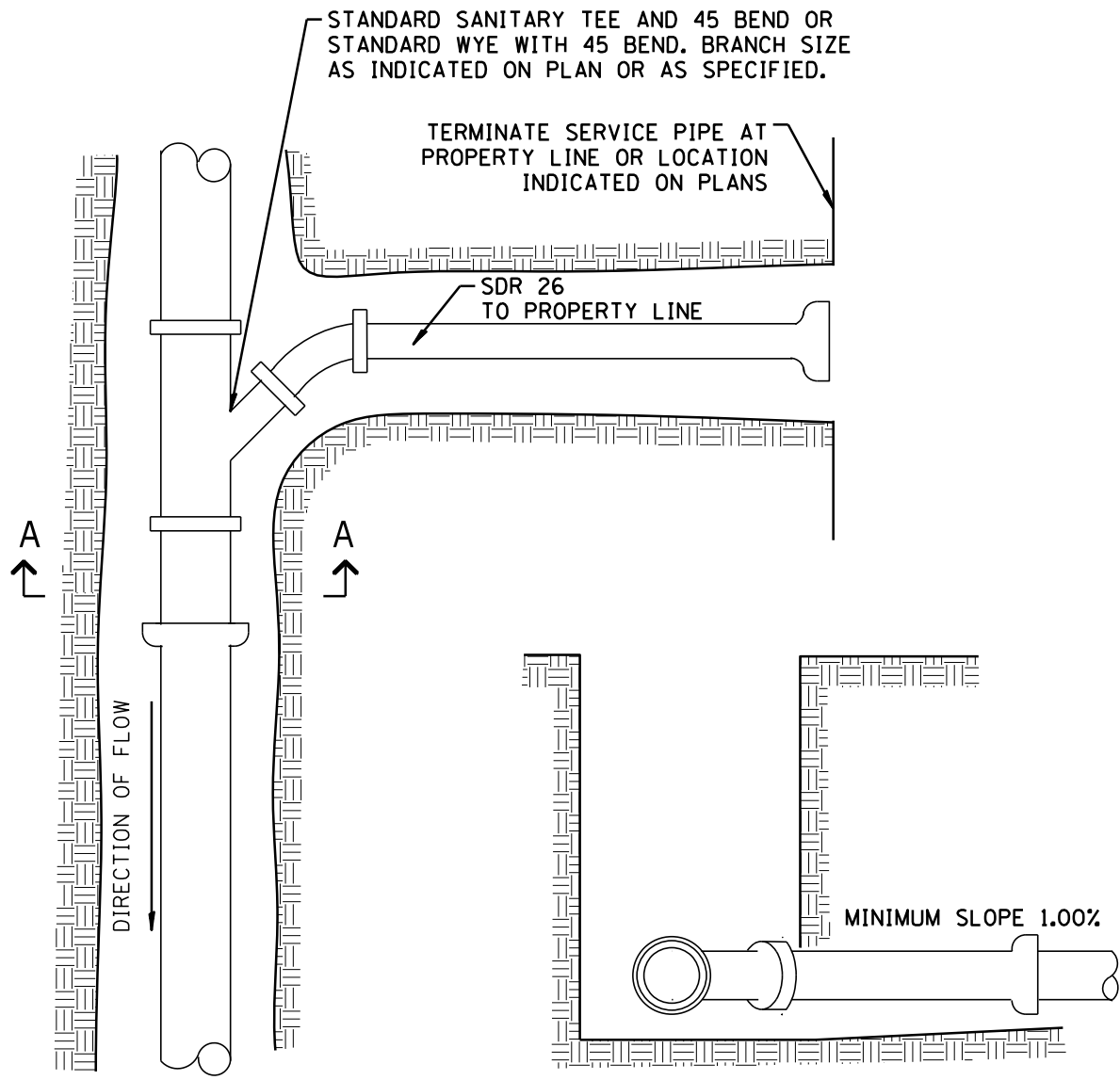


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**VILLAGE OF ALGONQUIN
UTILITY DETAILS
SANITARY SERVICE RISER**

DRAWN:	DJD	SHEET 40 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1.0		
REV 2.0		
REV 3.0		

SAN 03



SECTION A-A

MINIMUM 4" APPROVED, COMPACTED GRANULAR BEDDING
AND BACKFILL 12" ABOVE SERVICE LINE

NOTES:

1. TEE OR WYE FITTING SHALL BE ROTATED UP FROM HORIZONTAL PLANE TO PROVIDE 1% MINIMUM SLOPE FOR SERVICE LINE.
2. END PIPE OF SERVICE LINE SHALL BE SEALED WITH A WATERTIGHT STOPPER SECURED WITH A WOODEN 4x4 POST; TOP OF POST SHALL EXTEND ABOVE FINISHED GRADE WITH UPPER 12" PAINTED GREEN.
3. PIPE SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH VILLAGE OF ALGONQUIN STANDARD DETAIL FOR TRENCH SECTIONS.
4. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.

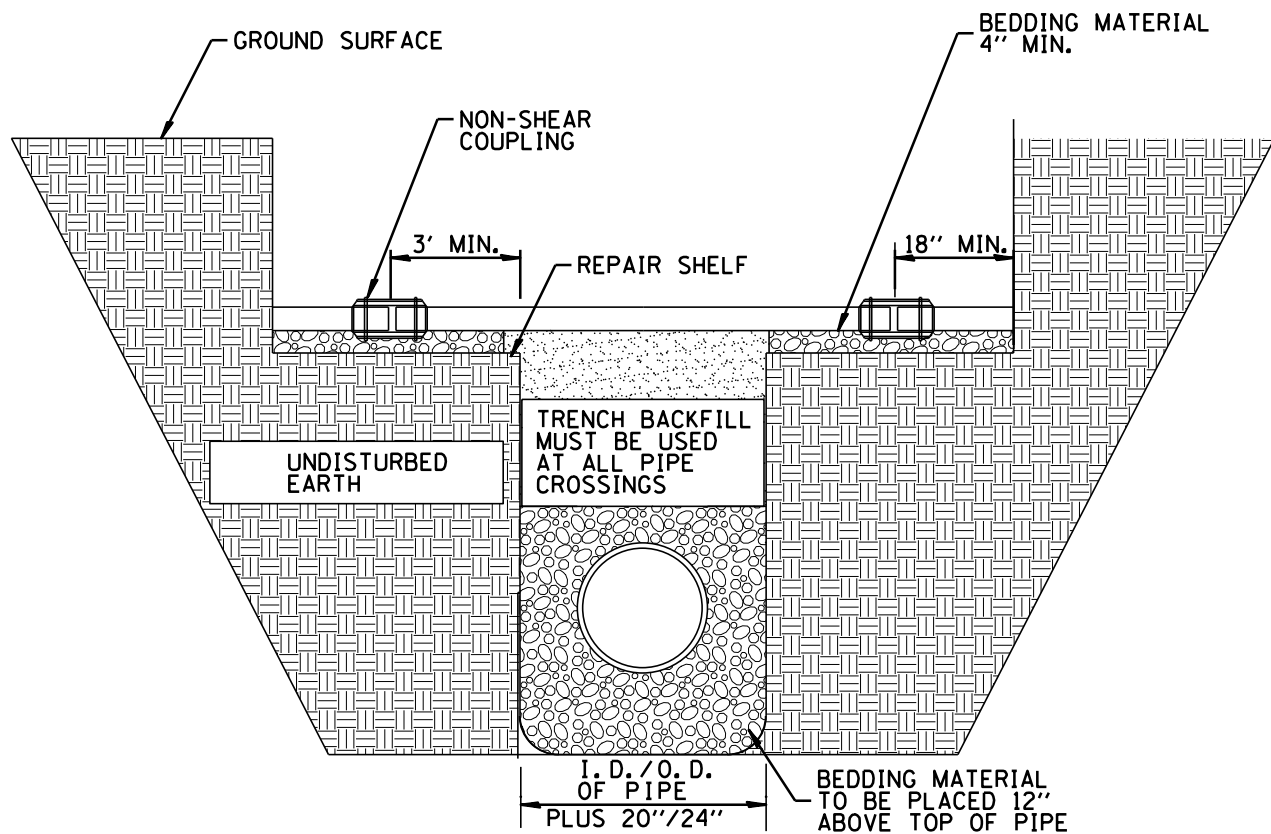


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**VILLAGE OF ALGONQUIN
UTILITY DETAILS
SANITARY SERVICE**

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APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1.0		
REV 2.0		
REV 3.0		

SAN 04



NOTES:

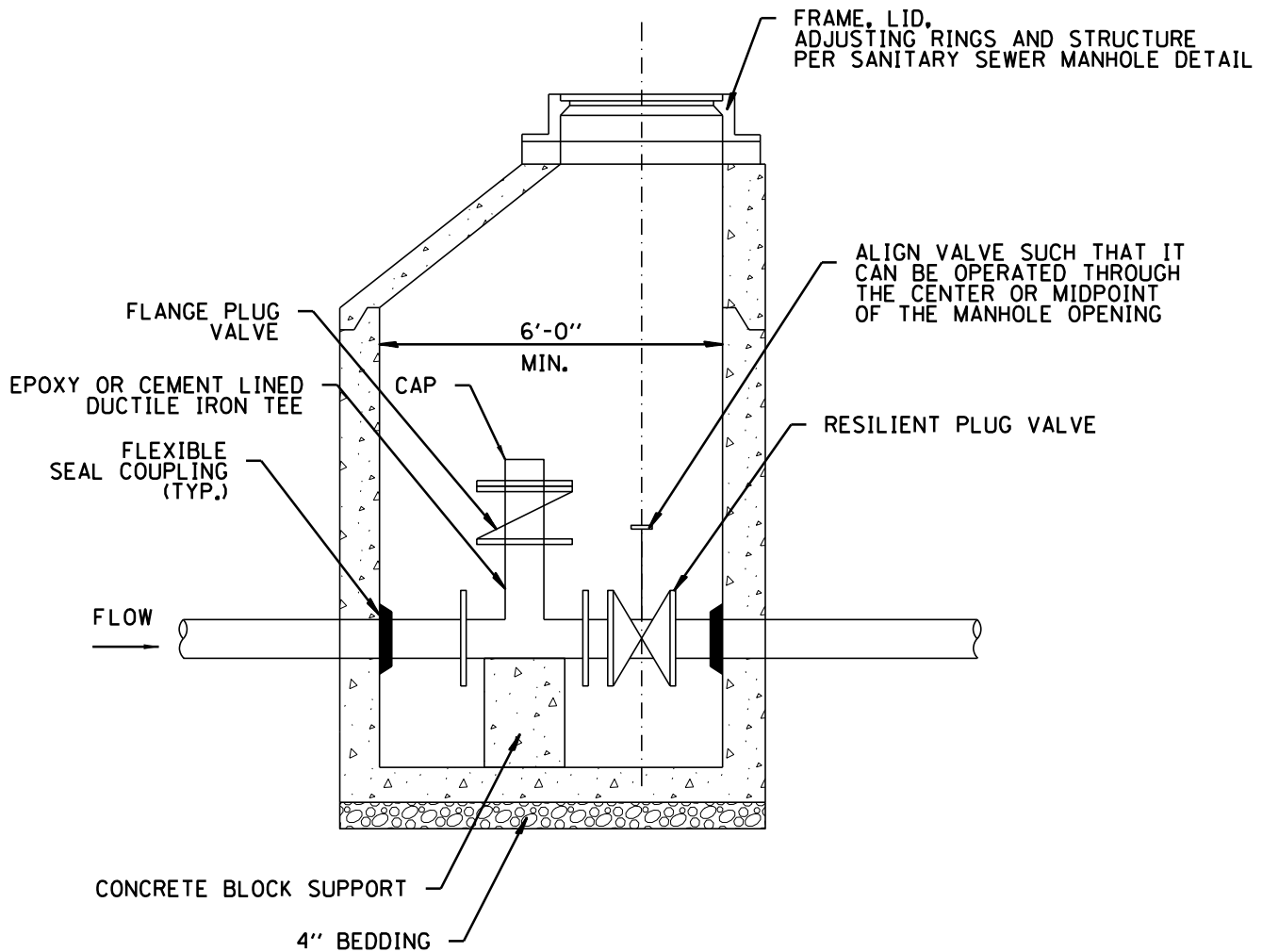
1. COUPLINGS ARE TO BE NON-SHEAR TYPE.
2. THE DISRUPTED PIPE SHALL BE REPAIRED WITH PVC SDR-26 OR IF THE DEPTH IS >15' USE EPOXY LINED DUCTILE IRON OR C900 PVC PIPE.
3. FIELD CUTS ON PIPE SHALL BE NO CLOSER THAN 18 INCHES FROM EXISTING BELL OR SPIGOT.
4. WHEN AT ALL POSSIBLE, USE EXISTING BELL OR SPIGOT TO ELIMINATE THE USE OF (2) COUPLINGS.
5. GRADE MUST BE MAINTAINED FOR ALL GRAVITY SEWERS.
6. SEE APPROVED VILLAGE OF ALGONQUIN PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.



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**VILLAGE OF ALGONQUIN
UTILITY DETAILS
SANITARY SEWER REPAIR AT CROSSING**

DRAWN:	DJD	SHEET 42 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		SAN 05
REV 2:		
REV 3:		



NOTE:

1. SEE APPROVED VILLAGE OF ALGONQUIN PRODUCT LIST FOR MANUFACTURER AND MODEL NUMBERS.
2. A FOUR INCH PRECAST RING SHALL BE FACTORY INSTALLED ON ALL FLATOP STRUCTURES.

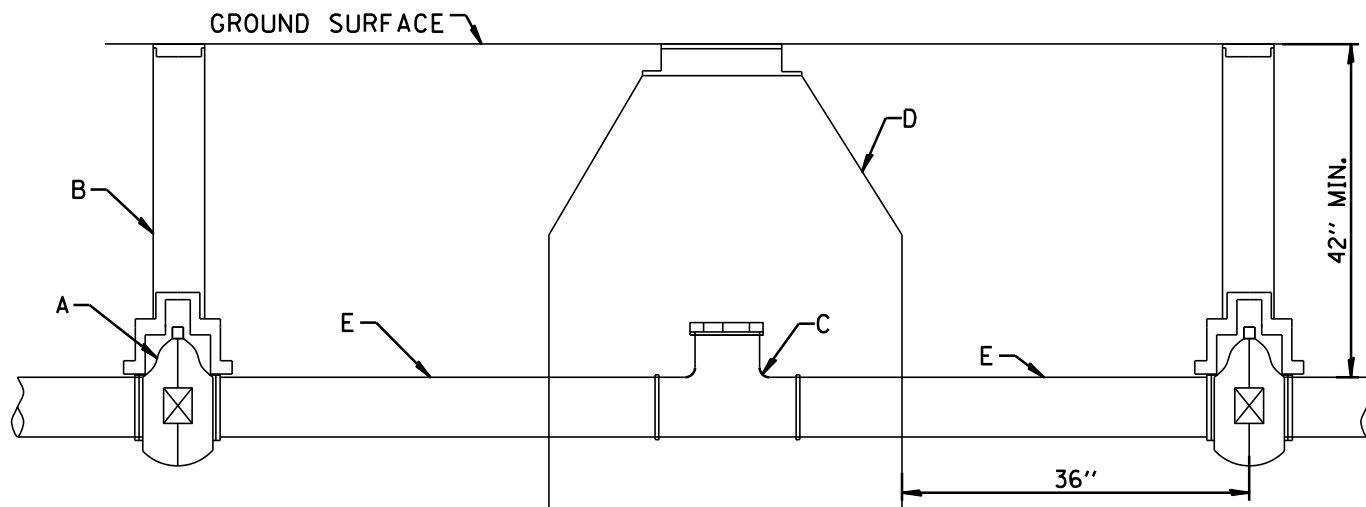


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**VILLAGE OF ALGONQUIN
UTILITY DETAILS
FORCEMAIN BYPASS PUMPING STRUCTURE**

DRAWN:	DJD	SHEET 43 OF 96
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DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

SAN 06



NOTES:

1. THE SETUP INCLUDES THE FOLLOWING:
 A (2) MUELLER A-2360 RESILIENT WEDGE GATE VALVES
 B (2) VALVE BOXES WITH VALVE BOX STABILIZERS
 C (1) EPOXY OR CEMENT LINED DUCTILE IRON TEE WITH TEE FACING STRAIGHT UP W/CAP
 D (1) 4' DIA. MANHOLE PER VILLAGE SANITARY MH DETAIL
 E (2) SECTIONS OF EPOXY OR CEMENT COATED DUCTILE IRON PIPE
2. SEE APPROVED VILLAGE OF ALGONQUIN PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.
3. A FOUR INCH PRECAST RING SHALL BE FACTORY INSTALLED ON ALL FLATOP STRUCTURES.



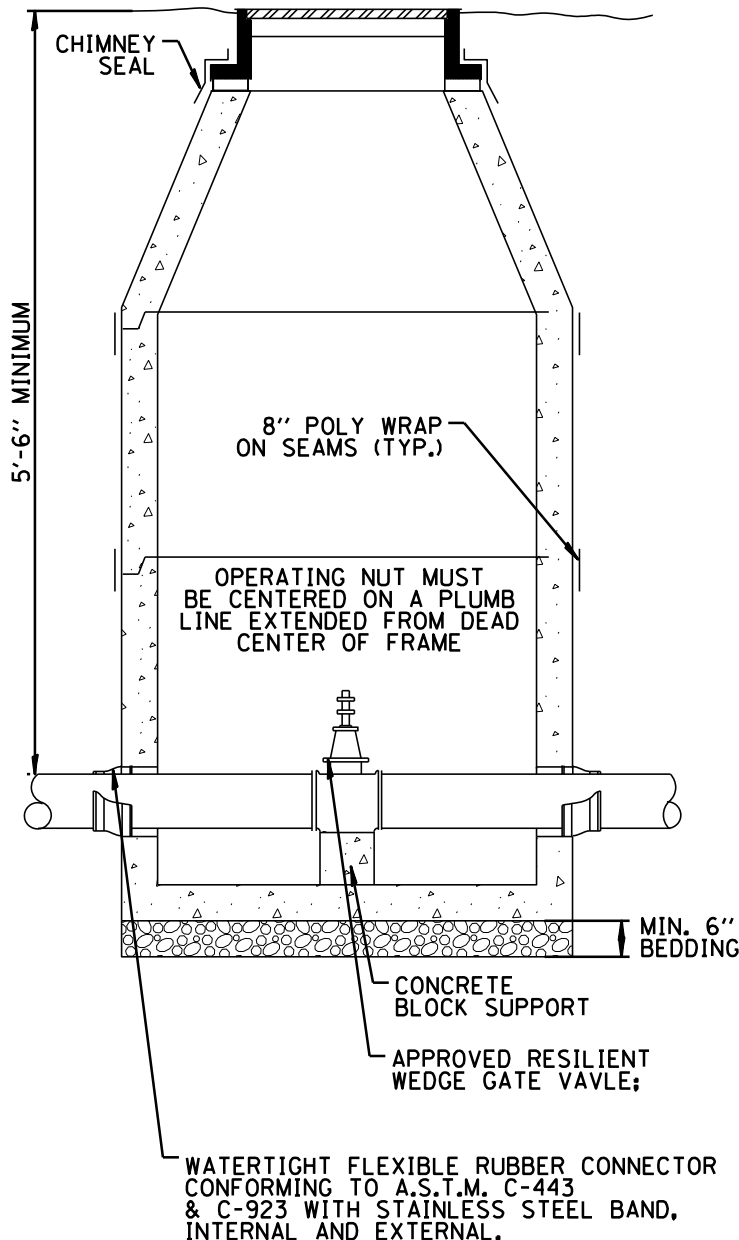
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**VILLAGE OF ALGONQUIN
 STANDARD CONSTRUCTION DETAILS
 FORCEMAIN CLEAN OUT**

DRAWN:	DJD	SHEET 44 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		SAN 07
REV 2:		
REV 3:		

NOTES:

1. ALL VALVES MUST BE ENCLOSED IN A VAULT UNLESS OTHERWISE SPECIFIED.
2. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 5" FOR 4'-0" INSIDE DIAMETER AND 6" FOR 5'-0" INSIDE DIAMETER STRUCTURES.
3. STRUCTURE SHALL BE 4'-0" INSIDE DIAMETER FOR 8" VALVES AND LESS. STRUCTURE SHALL BE 5'-0" INSIDE DIAMETER FOR 10" VALVES AND LARGER.
4. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
5. ALL EXTERIOR SURFACES OF STRUCTURE SHALL HAVE A FACTORY APPLIED BITUMINOUS COATING.
6. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A MINIMUM 9" WIDE POLYETHYLENE EXTERNAL CHIMNEY SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
7. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND MINIMUM 4" OF THE UPPER CONE SECTION.
8. OPERATING NUT OF VALVE MUST BE CENTERED ON A PLUMB LINE EXTENDED FROM CENTER OF FRAME OPENING.
9. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
10. STRUCTURE LID SHALL HAVE A TWO, 1" CONCEALED PICKHOLES AND HAVE THE WORD "WATER" AND VILLAGE LOGO CAST INTO IT.
11. THE RIM ELEVATION FOR STRUCTURES WITHIN THE FLOODPLAIN MUST BE SET 24" ABOVE THE BASE FLOOD ELEVATION. FRAME AND LID MUST BE WATER-TIGHT LOCK DOWN.
12. PIPE PENETRATIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS AND FLEXIBLE RUBBER CONNECTORS.
13. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.
14. A FOUR INCH PRECAST RING SHALL BE FACTORY INSTALLED ON ALL FLATOP STRUCTURES.
15. POLYETHYLENE ENCASEMENT V-BIO ENHANCED POLYWRAP INTO THE MANHOLE.



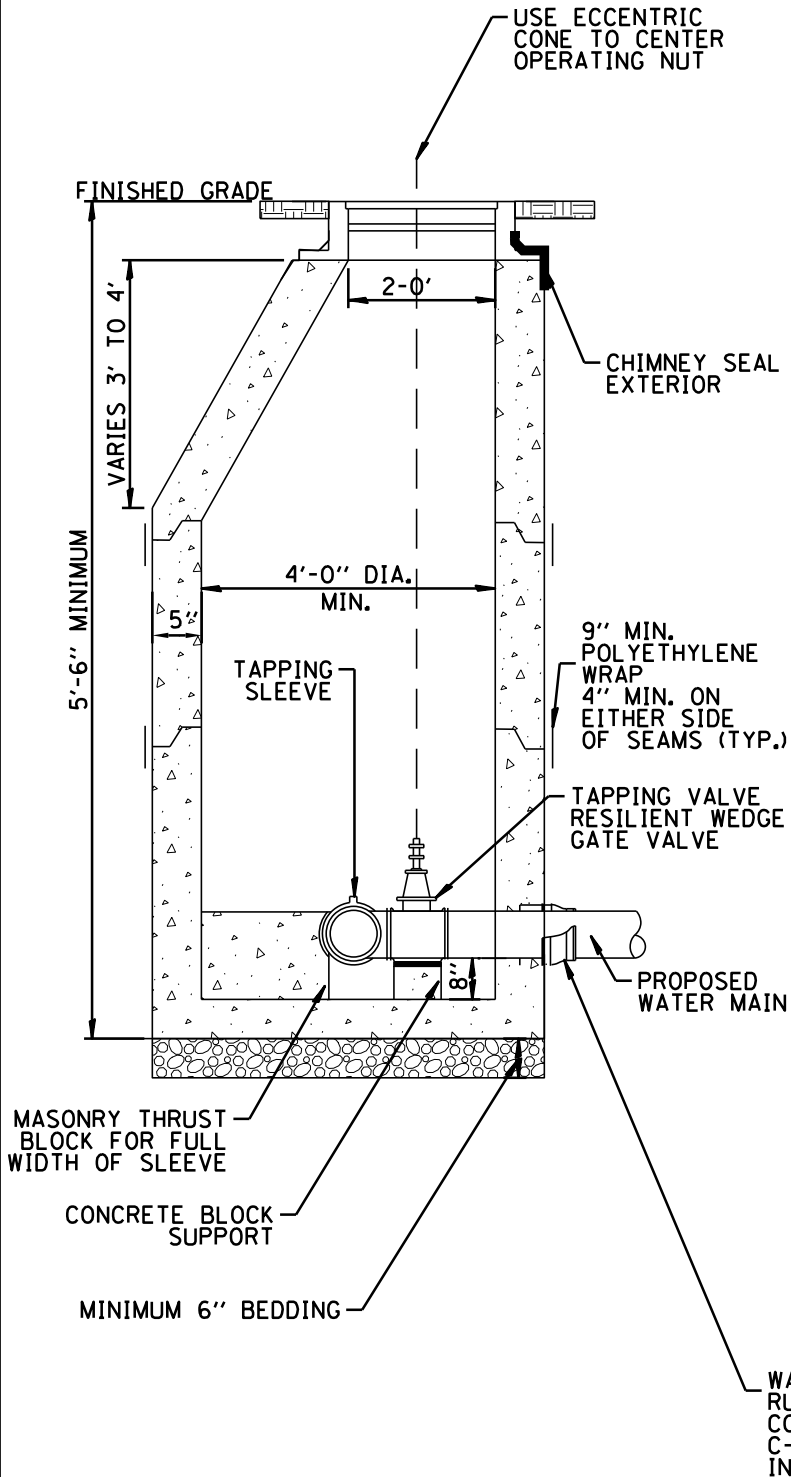
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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS VALVE AND VAULT

DRAWN:	DJD	SHEET 45 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		WAT 01
REV 2:		
REV 3:		

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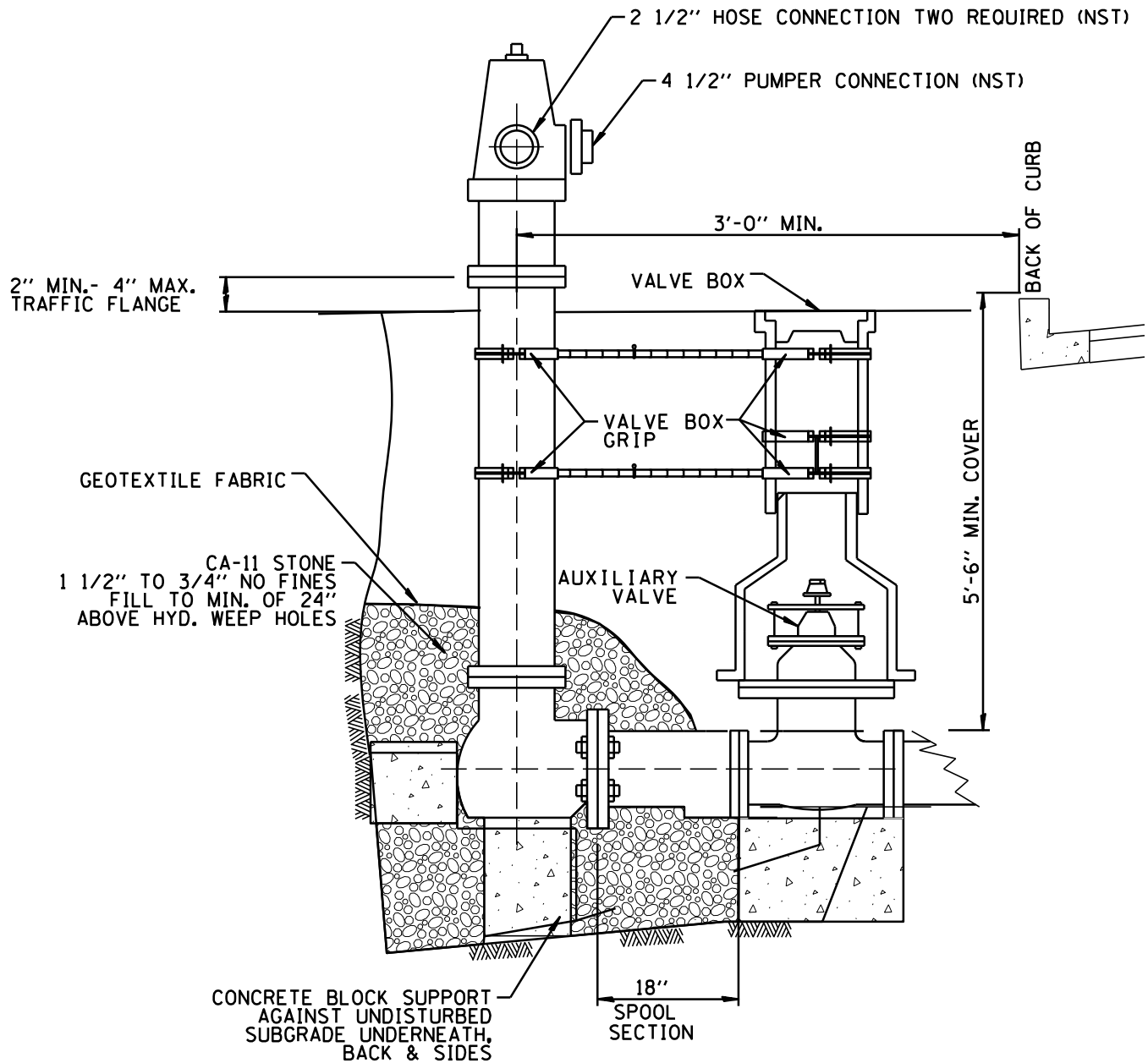
1. ALL VALVES MUST BE ENCLOSED IN A VAULT UNLESS OTHERWISE SPECIFIED.
2. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 5'-0" FOR 4'-0" INSIDE DIAMETER AND 6" FOR 5'-0" INSIDE DIAMETER STRUCTURES.
3. STRUCTURE SHALL BE 4'-0" INSIDE DIAMETER FOR 8" VALVES AND LESS. STRUCTURE SHALL BE 5'-0" INSIDE DIAMETER FOR 10" VALVES AND LARGER.
4. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
5. ALL EXTERIOR SURFACES OF STRUCTURE SHALL HAVE A FACTORY APPLIED BITUMINOUS COATING.
6. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A 9" WIDE POLYETHYLENE EXTERNAL CHIMNEY SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
7. OPERATING NUT OF VALVE MUST BE CENTERED ON A PLUMB LINE EXTENDED FROM CENTER OF FRAME OPENING.
8. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
9. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND 4" OF THE UPPER CONE SECTION.
10. STRUCTURE LID SHALL HAVE A TWO, 1" CONCEALED PICKHOLES AND HAVE THE WORD "WATER" AND VILLAGE LOGO CAST INTO IT.
11. THE RIM ELEVATION FOR STRUCTURES WITHIN THE FLOODPLAIN MUST BE SET 24" ABOVE THE BASE FLOOD ELEVATION. FRAME AND LID MUST BE WATER-TIGHT LOCK DOWN.
12. PIPE PENETRATIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS AND FLEXIBLE RUBBER CONNECTORS.
13. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.
14. A FOUR INCH PRECAST RING SHALL BE FACTORY INSTALLED ON ALL FLATOP STRUCTURES.
15. POLYETHYLENE ENCASEMENT V-BIO ENHANCED POLYWRAP INTO THE MANHOLE



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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS PRESSURE CONNECTION AND VAULT

DRAWN:	DJD	SHEET 46 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1.0		WAT 02
REV 2.0		
REV 3.0		



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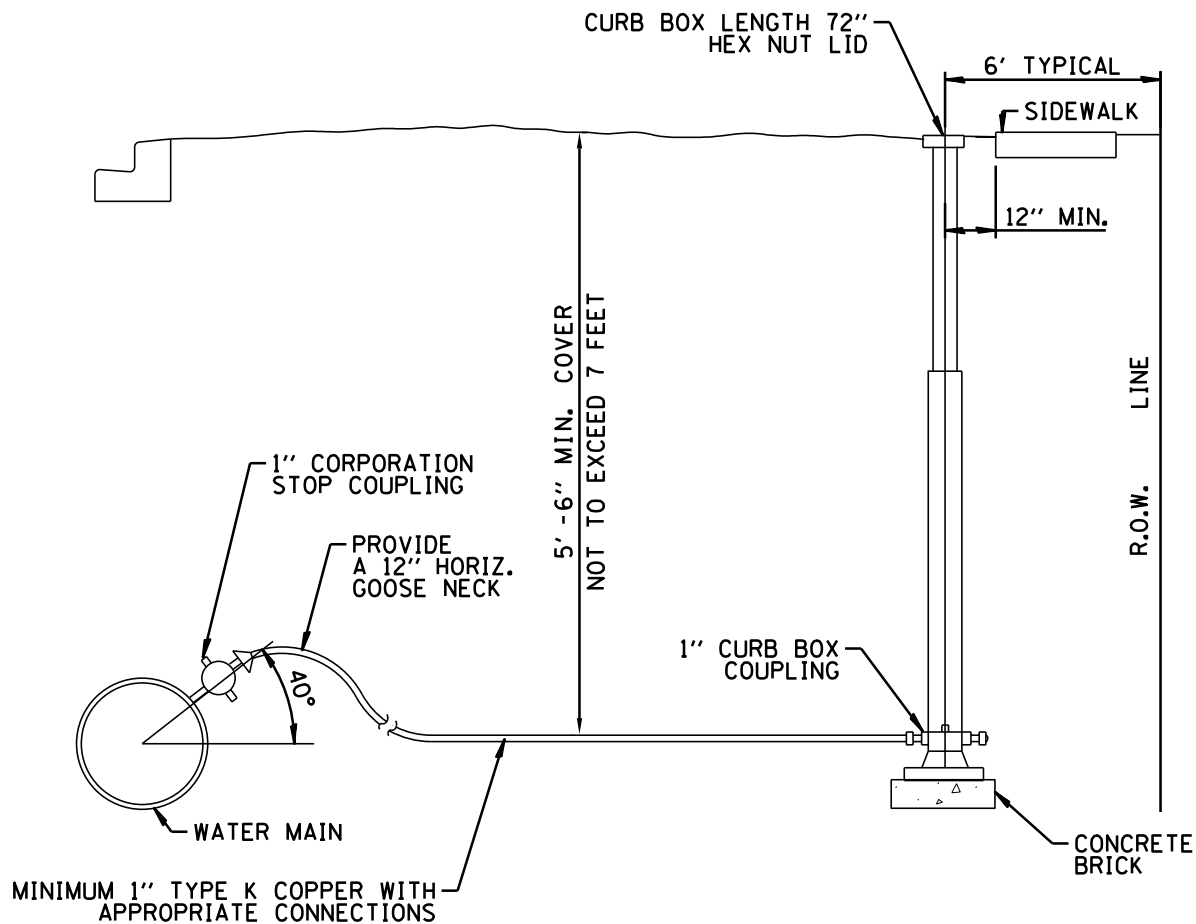
1. HYDRANT SHALL HAVE FRESH COAT OF PAINT.
2. CONCRETE THRUST BLOCKING SHALL NOT BLOCK OR OBSTRUCT WEEP HOLES.
3. ALL FITTINGS SHALL BE RESTRAINED.
4. SEE APPROVED VILLAGE OF ALGONQUIN PRODUCT LIST FOR MANUFACTURER AND MODEL NUMBERS.
5. POLYETHYLENE ENCASMENT V-BIO ENHANCED POLYWRAP INTO THE MANHOLE. WRAP STEM TO WITHIN 6" OF FINAL GRADE.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
FIRE HYDRANT W/ AUX VALVE & BOX**

DRAWN:	DJD	SHEET 47 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		WAT 03
REV 2:		
REV 3:		



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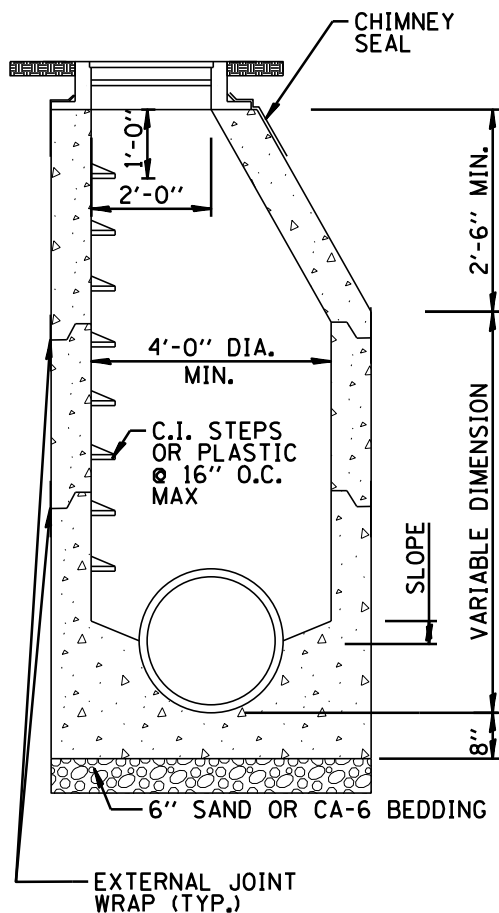
1. ALL TAPS ON DUCTILE IRON PIPE (1 1/4" AND BELOW) SHALL BE DONE USING DIRECT TAP METHOD. WATER SERVICE CONNECTIONS TO WATER MAINS SHALL USE THE DRILLING AND TAPPING METHOD INTO A PRESSURIZED MAIN. ALL TAPS 1 1/2" AND GREATER REQUIRE A SADDLE.
2. WHERE STORM LINES ARE BETWEEN CURB BOX AND HOUSE AND SHALLOWER THAN WATER SERVICE A SCHEDULE 40 PVC PIPE SHALL BE INSTALLED UNDER STORM LINE.
3. CURB BOX NOT ALLOWED IN HARD SURFACE OR PAVEMENT AREA (CONCRETE, ASPHALT, ETC.) UNLESS APPROVED BY THE ENGINEER.
4. IF CURB BOX IS INSTALLED IN PAVEMENT AREAS USE TRAFFIC RATED (CURB BOX COVER).
5. SEE APPROVED VILLAGE OF ALGONQUIN PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.
6. LOCATION OF CURB BOX IS TO FOLLOW THE PLAN & PROFILE ENGINEERING PRINT.
7. COMPRESSION CONNECTIONS REQUIRED FROM THE MAIN LINE TO HOUSE SIDE OF THE CURB BOX.
8. FOR SERVICES LARGER THAN 1", FACTORY FLARES ARE ALLOWED. NO MODIFIED FIELD FLARES ALLOWED.



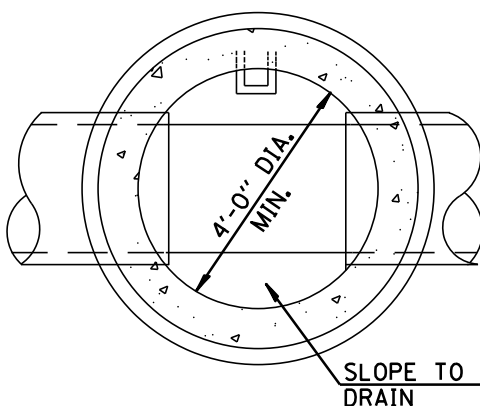
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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS DOMESTIC WATER SERVICE

DRAWN:	DJD	SHEET 48 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		WAT 04
REV 2:		
REV 3:		



PROFILE VIEW



PLAN VIEW

NOTES:

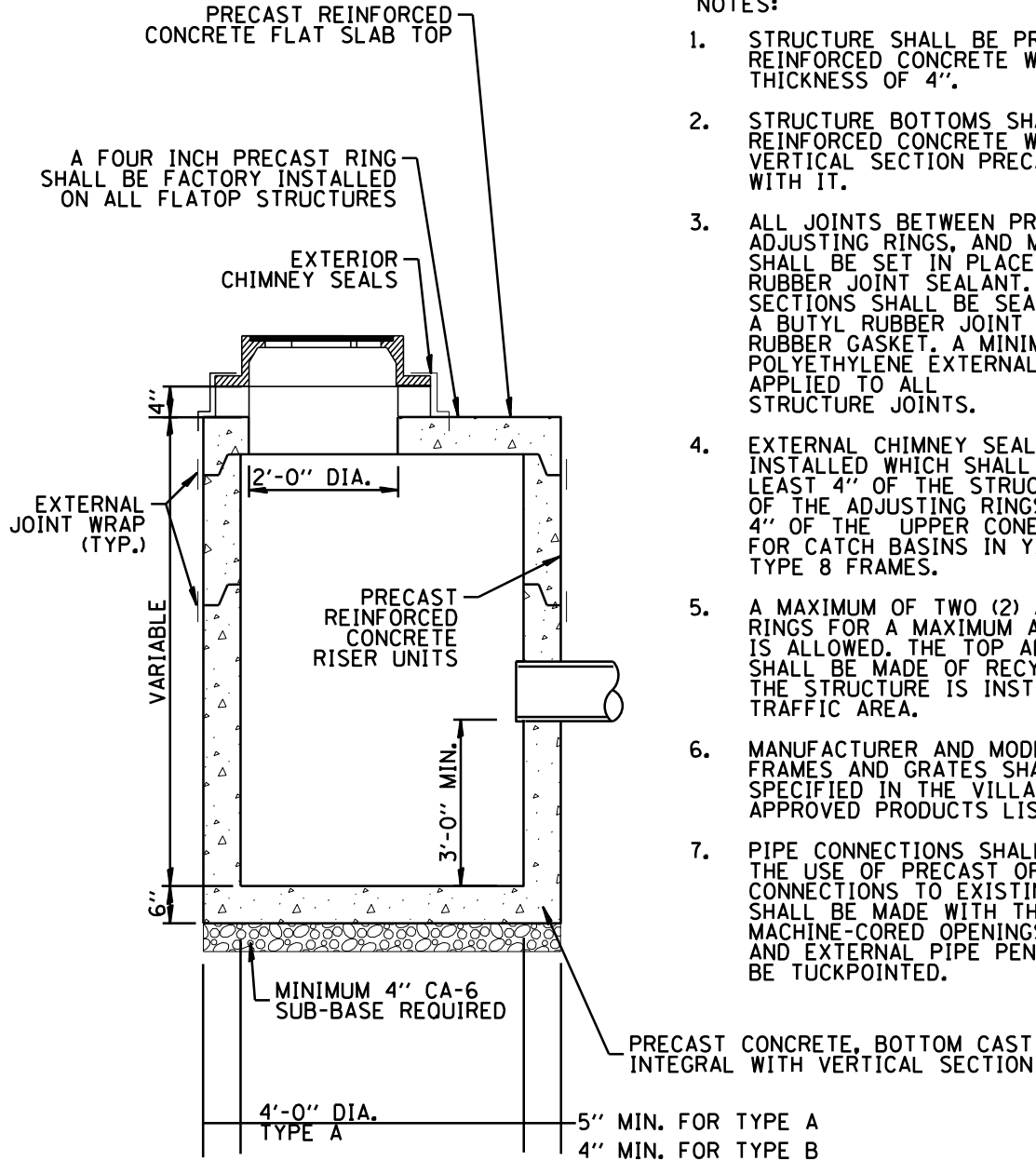
1. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 5" FOR 4'-0" INSIDE DIAMETER AND 6" FOR 5'-0" INSIDE DIAMETER STRUCTURES.
2. STRUCTURES SHALL BE 4'-0" INSIDE DIAMETER FOR MAIN SEWER 18" DIAMETER AND LESS, AND STRUCTURE DEPTH OF 20' OR LESS. STRUCTURES SHALL BE 5'-0" INSIDE DIAMETER FOR MAIN SEWER 21" DIAMETER AND LARGER, AND STRUCTURE DEPTH MORE THAN 20'.
3. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
4. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A MINIMUM 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
5. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND MINIMUM 4" OF THE UPPER CONE SECTION.
6. STRUCTURE STEPS SHALL BE MADE OF STEEL REINFORCED PLASTIC USING AN APPROVED PLASTIC MEETING ASTM D4101, TYPE 11, GRADE 49108, OVER #3 GRADE 60, ASTM A615 REINFORCING BAR. STEPS SHALL BE AT 16" CENTERS.
7. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
8. STRUCTURE WITH CLOSED LIDS SHALL HAVE A 1" CONCEALED PICKHOLE AND HAVE THE WORD "STORM" AND VILLAGE LOGO CAST INTO IT. STRUCTURES WITH OPEN LIDS SHALL BE AS PER VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST.
9. PIPE CONNECTIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS. CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE WITH THE USE OF MACHINE-CORED OPENINGS. THE INTERNAL AND EXTERNAL PIPE PENETRATIONS SHALL BE TUCKPOINTED.
10. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.
11. A FOUR INCH PRECAST RING SHALL BE FACTORY INSTALLED ON ALL FLATOP STRUCTURES



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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS STORM MANHOLE

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APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		STM 01
REV 2:		
REV 3:		



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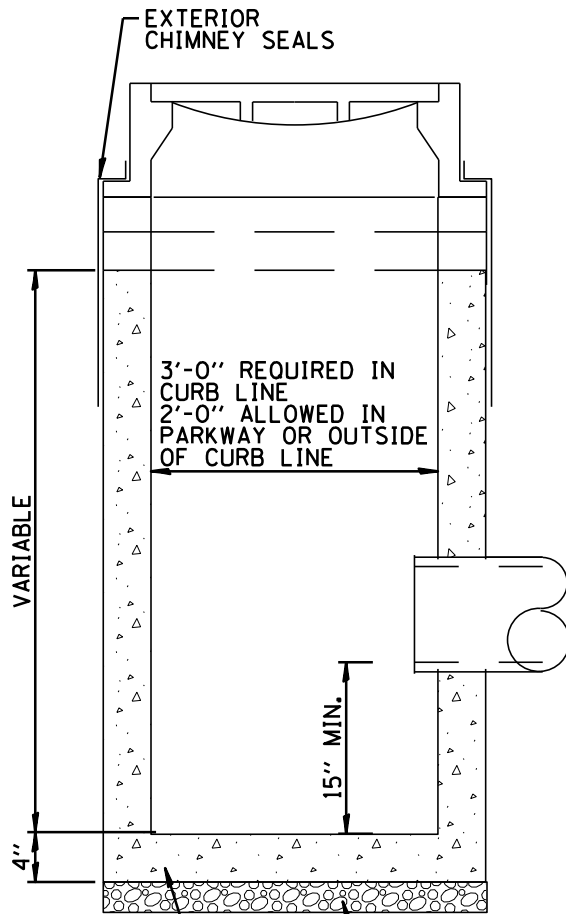
1. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 4".
2. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
3. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A MINIMUM 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
4. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND MIN. 4" OF THE UPPER CONE SECTION EXCEPT FOR CATCH BASINS IN YARD AREAS USING TYPE 8 FRAMES.
5. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
6. MANUFACTURER AND MODEL NUMBER FOR FRAMES AND GRATES SHALL BE AS SPECIFIED IN THE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST.
7. PIPE CONNECTIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS. CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE WITH THE USE OF MACHINE-CORED OPENINGS. THE INTERNAL AND EXTERNAL PIPE PENETRATIONS SHALL BE TUCKPOINTED.



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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS CATCH BASIN TYPE A & B

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APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		STM 02
REV 2:		
REV 3:		



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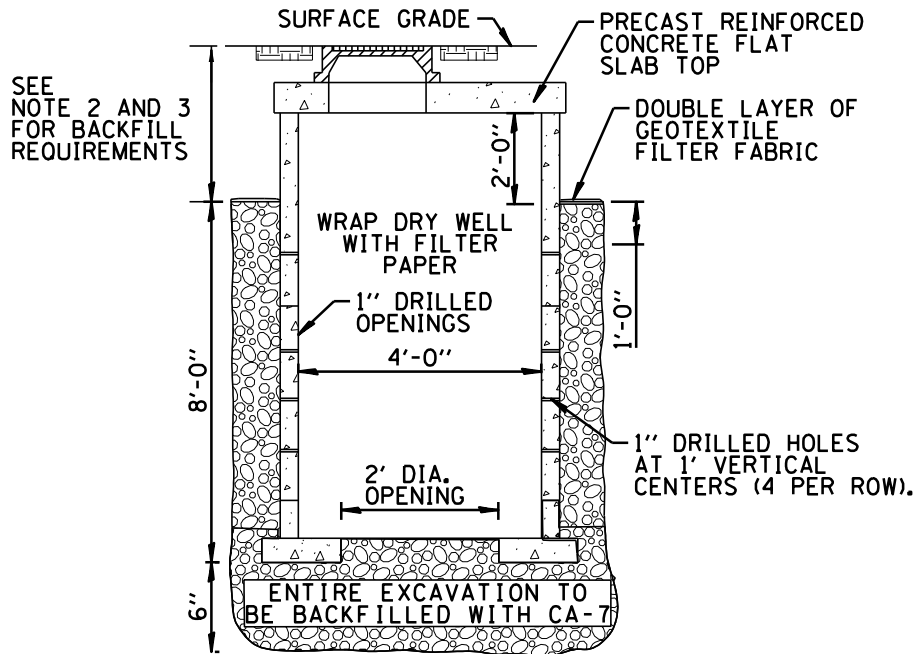
1. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 4".
2. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
3. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A MINIMUM 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
4. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND MIN. 4" OF THE UPPER CONE SECTION EXCEPT FOR CATCH BASINS IN YARD AREAS USING TYPE 8 FRAMES.
5. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
6. MANUFACTURER AND MODEL NUMBER FOR FRAMES AND GRATES SHALL BE AS SPECIFIED IN THE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST.
7. PIPE CONNECTIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS. CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE WITH THE USE OF MACHINE-CORED OPENINGS. THE INTERNAL AND EXTERNAL PIPE PENETRATIONS SHALL BE TUCKPOINTED.



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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS CATCH BASIN TYPE C - SPECIAL USE ONLY

DRAWN:	DJD	SHEET 51 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		STM 03
REV 2:		
REV 3:		



NOTES:

1. DRYWELL STRUCTURE SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE VILLAGE OF ALGONQUIN STANDARD DETAIL FOR A STORM MANHOLE. SEE APPROVED VILLAGE OF ALGONQUIN APPROVED PRODUCT LIST FOR MANUFACTURER AND MODEL NUMBERS.
2. WHEN A DRYWELL IS CONSTRUCTED WITHIN A TURF AREA, THAT PORTION EXCAVATED ABOVE THE GEOTEXTILE FILTER FABRIC SHALL BE BACKFILLED WITH CA-7 AND THE FINAL SIX (6) INCHES, MINIMUM, WITH TOPSOIL IN CONFORMANCE WITH VILLAGE RESTORATION STANDARDS.
3. WHEN DRYWELL IS LOCATED WITHIN A PAVEMENT AREA, THAT PORTION EXCAVATED ABOVE THE GEOTEXTILE FILTER FABRIC SHALL BE BACKFILLED WITH IDOT CA-6 AGGREGATE BASE COURSE TYPE B TO THE BOTTOM OF THE PAVEMENT SUB-BASE ELEVATION.
4. DRY WELL CONSTRUCTION SHALL BE ALLOWED IN ONLY IN SPECIAL CASES, SERVING LIMITED AREAS, AND ONLY WHEN SOIL BORINGS INDICATE THAT EXISTING GROUND WILL SUPPORT THEIR USE. THE USE OF DRYWELLS REQUIRES THE WRITTEN APPROVAL OF THE VILLAGE.
5. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
6. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
7. A FOUR INCH PRECAST RING SHALL BE FACTORY INSTALLED ON ALL FLATOP STRUCTURES.

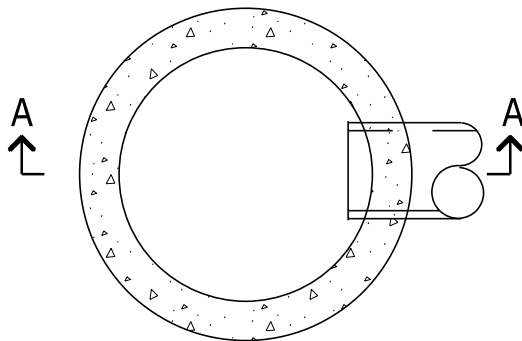


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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
DRYWELL MANHOLE - SPECIAL USE ONLY**

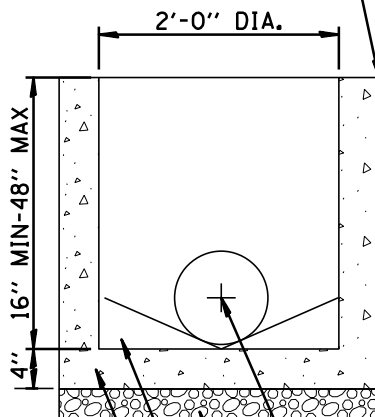
DRAWN:	DJD	SHEET 52 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1.0		
REV 2.0		
REV 3.0		

STM 04



PLAN

PRECAST REINFORCED CONCRETE
RISER SECTION - MINIMUM 4"
WALL THICKNESS



OUTLET PIPE
TUCKPOINT BOTH
INTERNAL & EXTERNAL
PIPE PENETRATIONS

4" CA-6 COMPACTED BASE

CONCRETE FILLETS
AT 15 DEGREE SLOPE

PRECAST CONCRETE BOTTOM
CAST INTEGRAL WITH VERTICAL
SECTION INLET SHALL BE ONE
CONTINUOUS PIECE

SECTION A-A

NOTES:

1. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 4".
2. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
3. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
4. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
5. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND 4" OF THE UPPER CONE SECTION EXCEPT FOR INLETS IN YARD AREAS USING TYPE 8 FRAMES.
6. MANUFACTURER AND MODEL NUMBER FOR FRAMES AND GRATES SHALL BE AS SPECIFIED IN THE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST.
7. PIPE CONNECTIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS. CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE WITH THE USE OF MACHINE-CORED OPENINGS. THE INTERNAL AND EXTERNAL PIPE PENETRATIONS SHALL BE TUCKPOINTED.



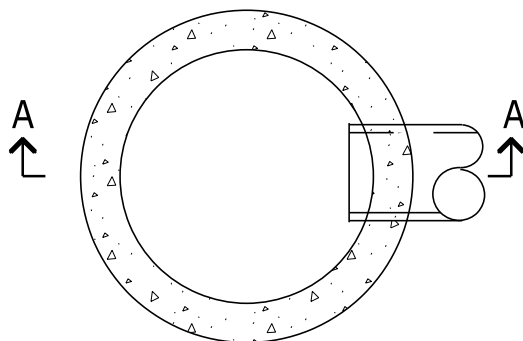
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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
INLET TYPE A NON ROADWAY

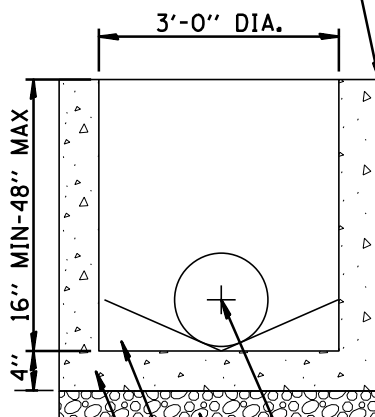
DRAWN:	DJD	SHEET 53 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

STM 05



PLAN

PRECAST REINFORCED CONCRETE
RISER SECTION - MINIMUM 4"
WALL THICKNESS



OUTLET PIPE
TUCKPOINT BOTH
INTERNAL & EXTERNAL
PIPE PENETRATIONS

4" CA-6 COMPACTED BASE

CONCRETE FILLETS
AT 15 DEGREE SLOPE

PRECAST CONCRETE BOTTOM
CAST INTEGRAL WITH VERTICAL
SECTION INLET SHALL BE ONE
CONTINUOUS PIECE

SECTION A-A

NOTES:

1. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 4".
2. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
3. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
4. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
5. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND 4" OF THE UPPER CONE SECTION EXCEPT FOR INLETS IN YARD AREAS USING TYPE 8 FRAMES.
6. MANUFACTURER AND MODEL NUMBER FOR FRAMES AND GRATES SHALL BE AS SPECIFIED IN THE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST.
7. PIPE CONNECTIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS. CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE WITH THE USE OF MACHINE-CORED OPENINGS. THE INTERNAL AND EXTERNAL PIPE PENETRATIONS SHALL BE TUCKPOINTED.



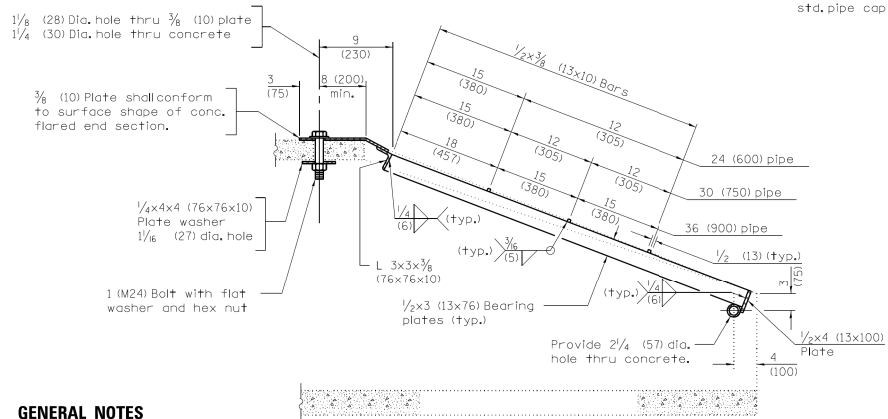
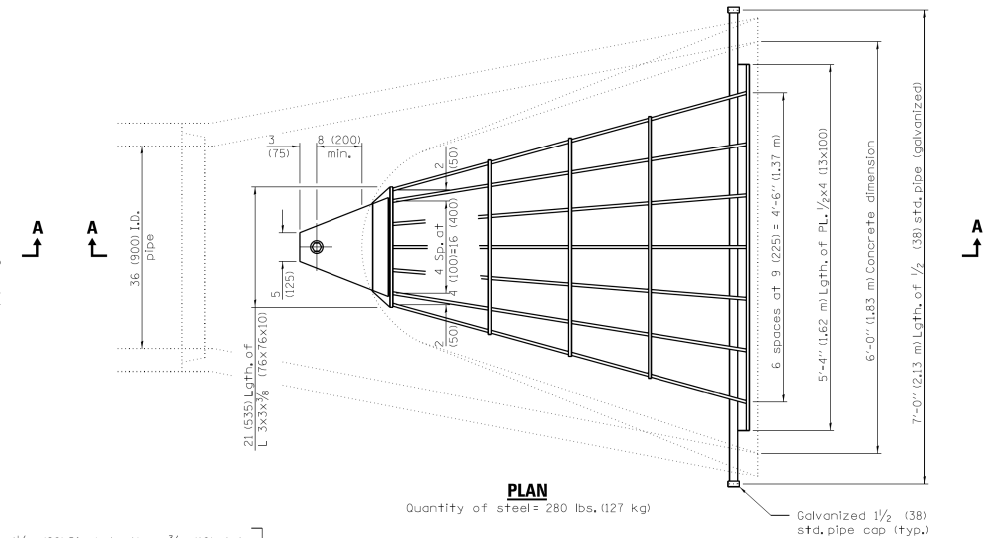
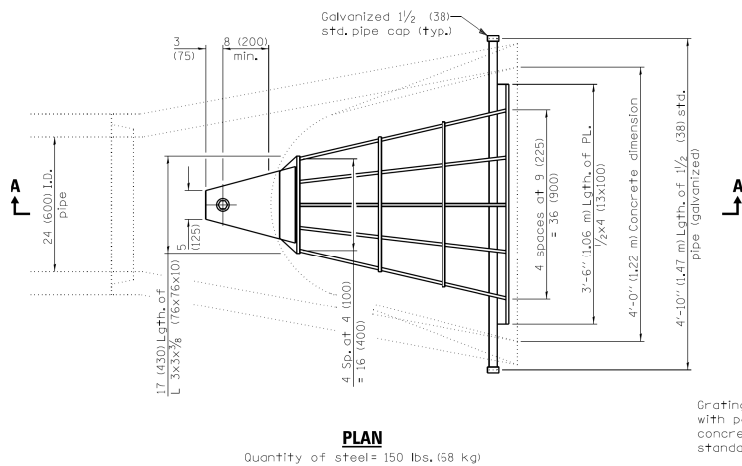
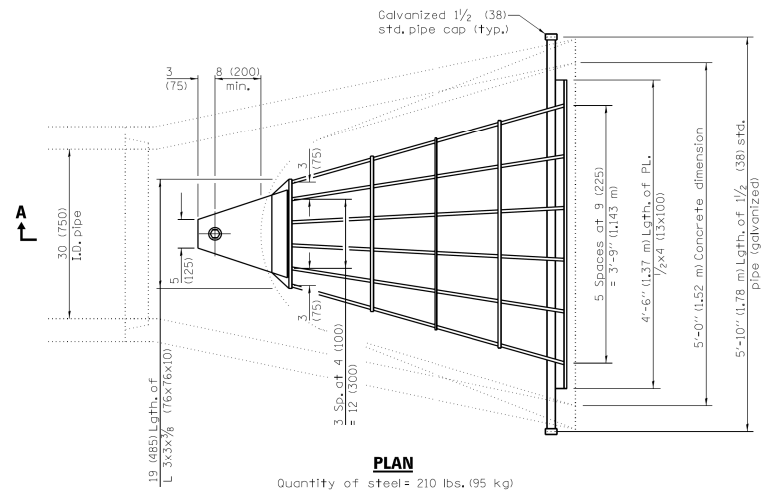
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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS INLET TYPE B ROADWAY CURB LINE APPLICATION

DRAWN:	DJD	SHEET 54 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1.0		
REV 2.0		
REV 3.0		

STM 06



GENERAL NOTES

Grating details shown are intended for use with particular sizes of precast reinforced concrete flared end sections as shown on standards 542301 and 542306.

Approximate quantity of steel shown includes total quantity of grating, bolts, nuts, washers and steel pipe.

Holes in the precast concrete flared end sections shall be cored to the diameters noted. If cone-out on the other end of the hole occurs, the hole shall be filled with grout to correct the diameter of the hole.

GRATES REQUIRED FOR ALL FLARED END SECTIONS INCLUDING 12" AND GREATER



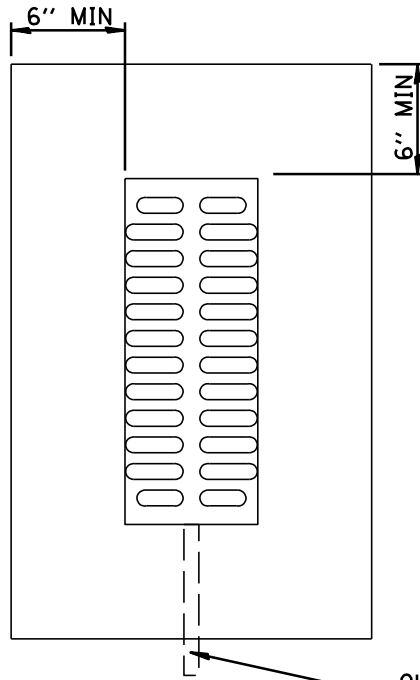
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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS GRATING FOR CONCRETE FES

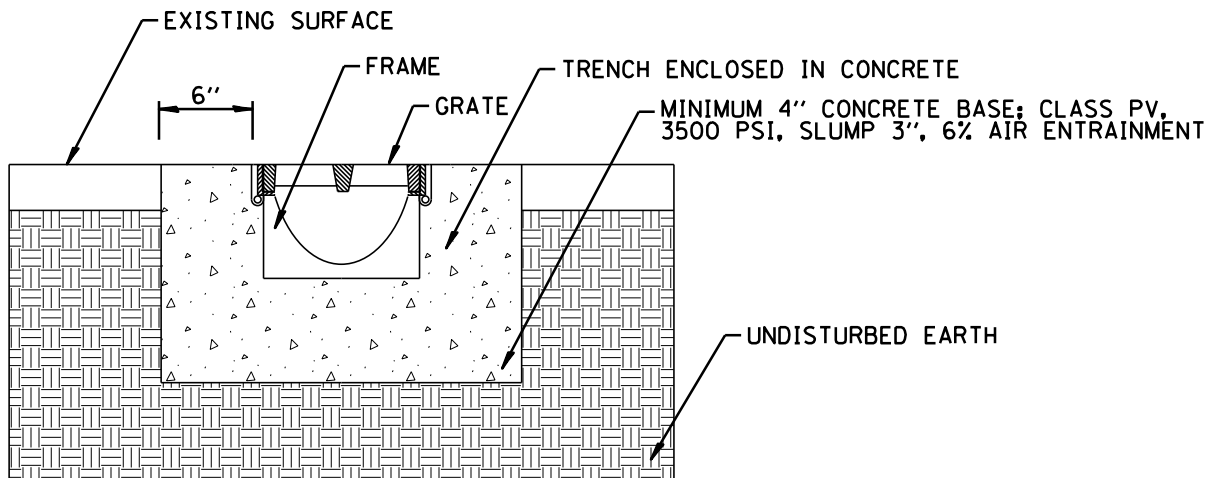
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APPROVED:	CVC	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

STM 08



PLAN

OUTLET PIPE: DIAMETER
AND MATERIAL PER PLAN



SECTION

NOTES:

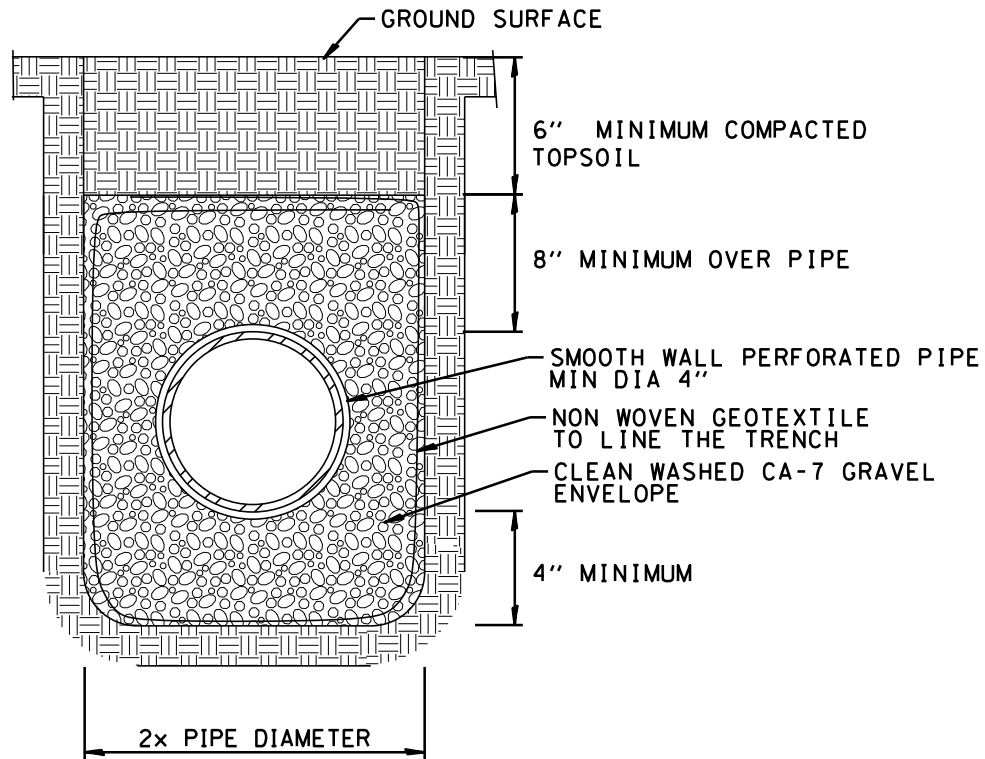
1. TO BE USED ONLY WITH APPROVAL OF PUBLIC WORKS DIRECTOR.
2. TRENCH DRAIN TO BE MANUFACTURED FOR FERROUS OR NON-FERROUS MATERIALS CAPABLE OF SUPPORTING H25 LOAD RATING.
3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. SEE APPROVED VILLAGE OF ALGONQUIN PRODUCTS FOR MANUFACTURER AND MODEL NUMBERS.



THE VILLAGE OF
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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
LINEAR DRIVEWAY DRAIN - SPECIAL USE ONLY**

DRAWN:	DJD	SHEET 57 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		STM 09
REV 2:		
REV 3:		



NOTE:

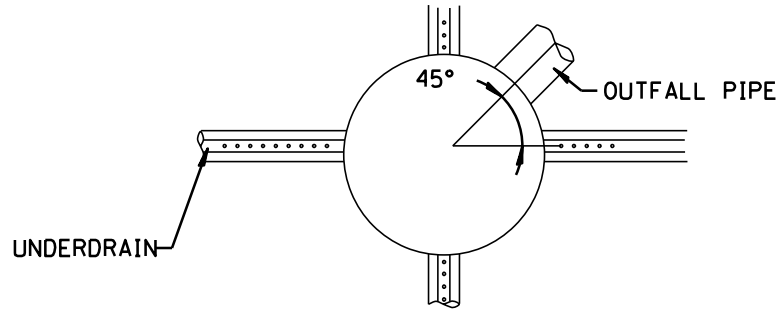
1. SEE APPROVED VILLAGE OF ALGONQUIN PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.



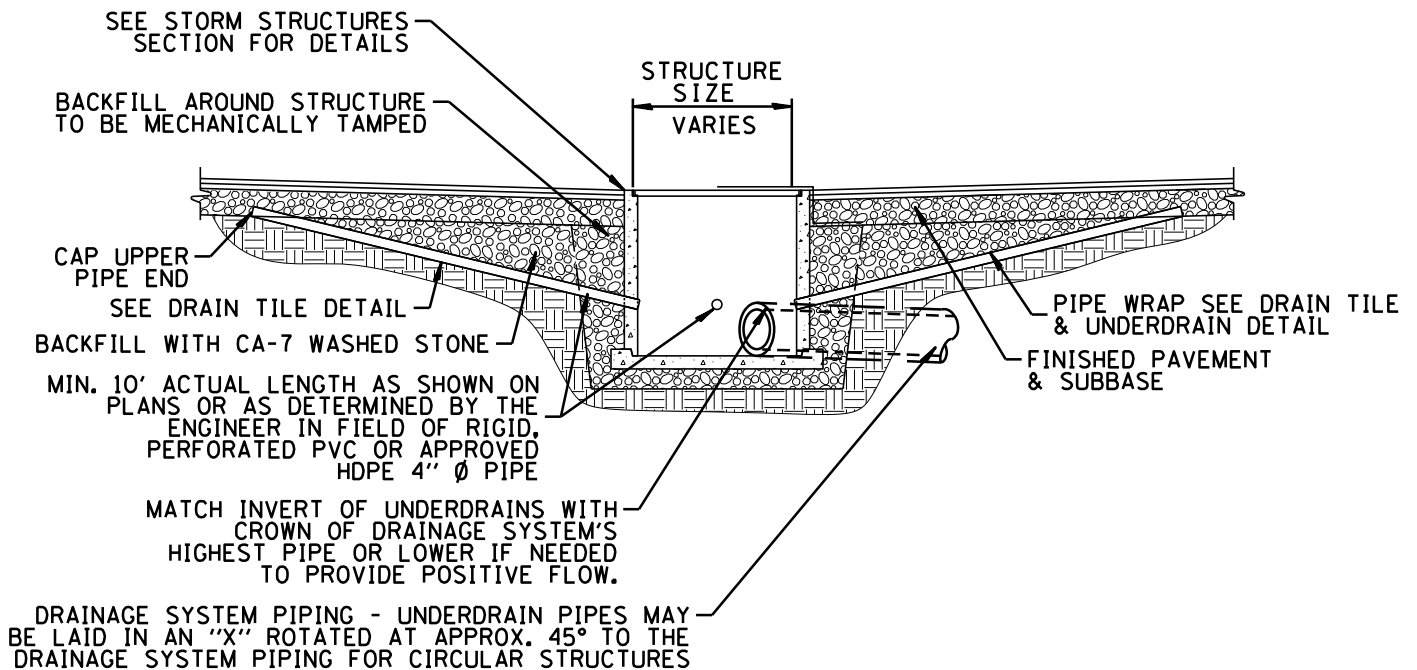
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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
DRAIN TILE AND UNDERDRAINS**

DRAWN:	DJD	SHEET 58 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		STM 10
REV 2:		
REV 3:		



PLAN VIEW



TRENCH SECTION

NOTES:

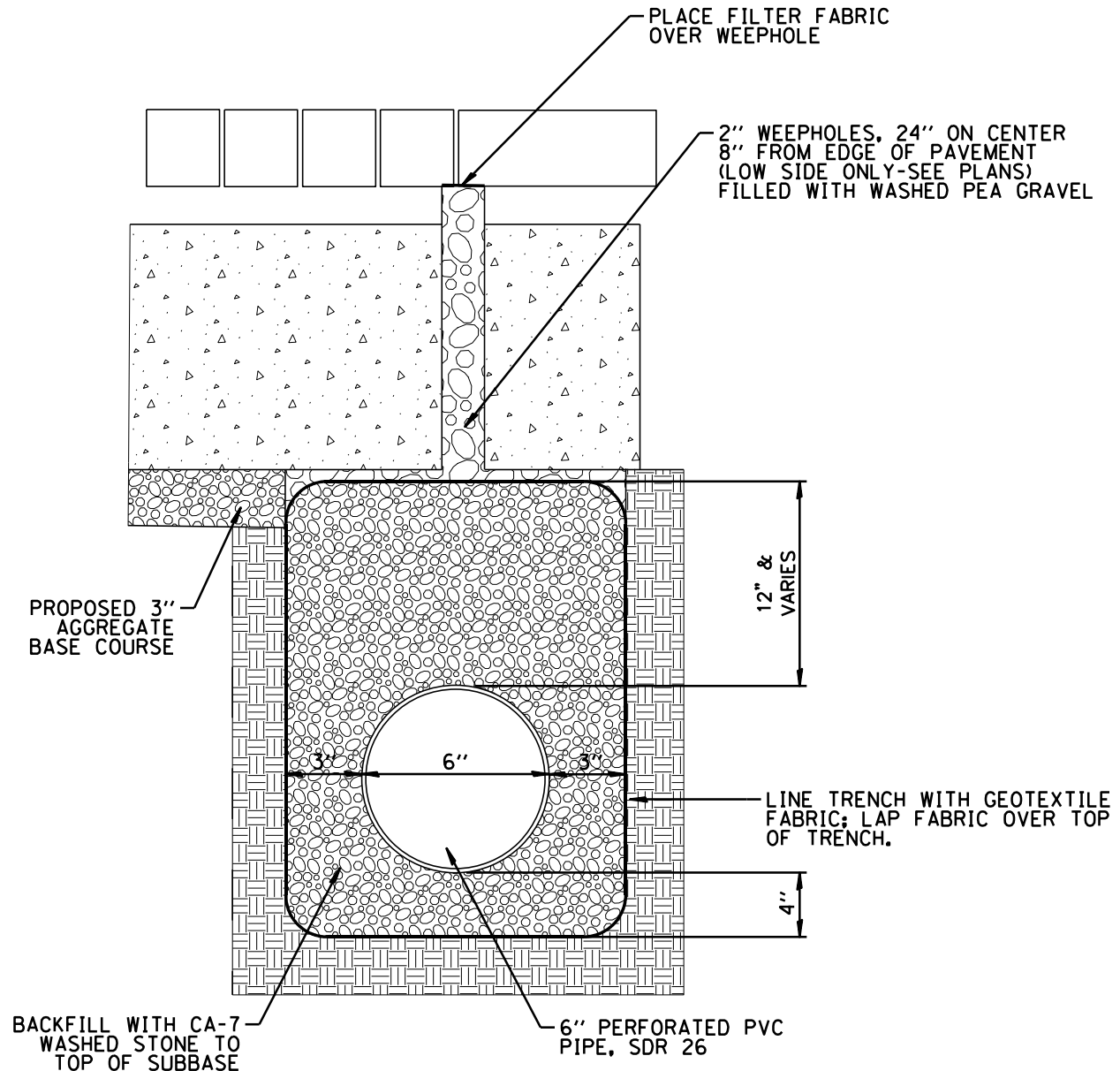
1. SEE APPROVED VILLAGE OF ALGONQUIN PRODUCT LIST FOR MANUFACTURER AND MODEL NUMBERS.
2. DRAIN PIPE ORIENTATION MAY BE SUBJECT TO FIELD DETERMINATION BY THE ONSITE ENGINEER INSPECTION.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
STORM STRUCTURE UNDERDRAIN**

DRAWN:	DJD	SHEET 59 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		STM 11
REV 2:		
REV 3:		



NOTE:

1. PRIOR TO PLACING HMA BEDDING OR BASE COURSE, CONTRACTOR SHALL TEST THE WEEPOLES FOR FLOW IN AN APPROVED MANNER IN THE PRESENCE OF THE ENGINEER.

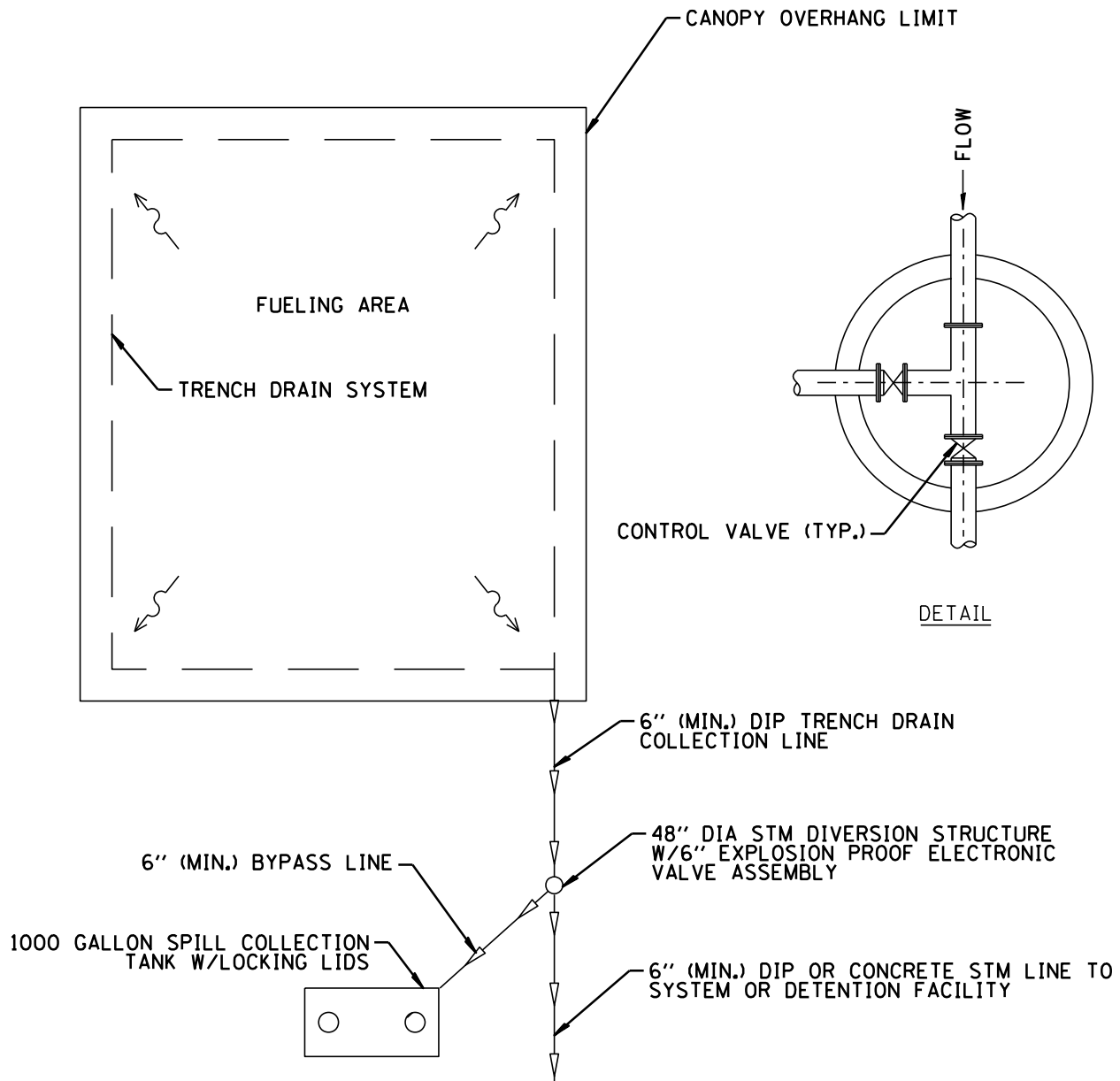


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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
RIGID BASE DRAINAGE**

DRAWN:	DJD	SHEET 60 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		
REV 2:		
REV 3:		

STM 12



NOTES:

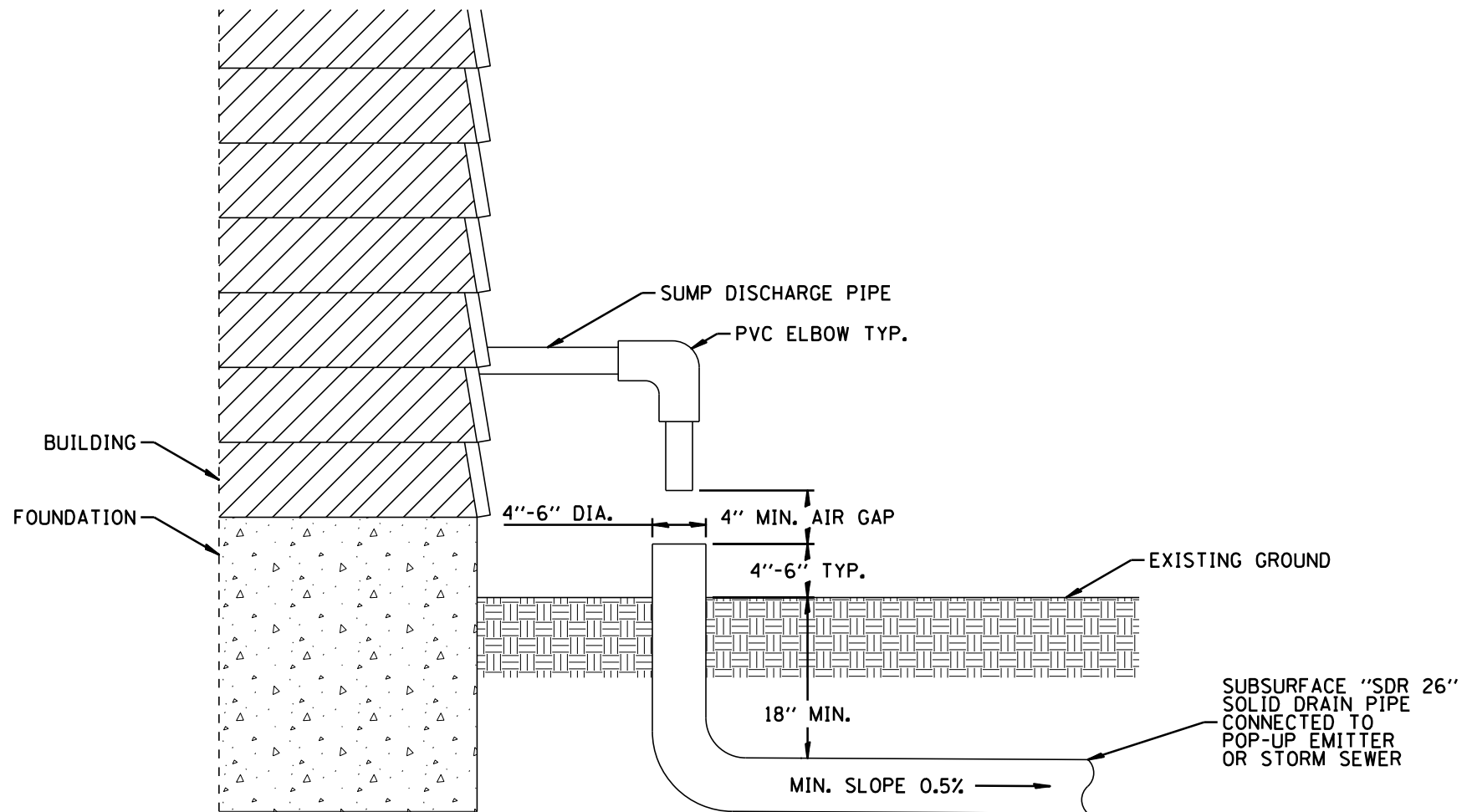
1. CONTROL VALVES SHALL BE ELECTRICALLY ACTIVATED, 120V POWER, NEMA 4 RATING FOR ON-OFF SERVICE WITH MANUAL OVERRIDE.
2. DIAMETER OF VALVES SHALL MATCH INFLOW AND OUTFLOW PIPING.
3. ALL STRUCTURE AND PIPE MATERIALS TO BE CONCRETE OR DIP; NO HDPE OR PVC STRUCTURES OR PIPES ALLOWED.
4. DIVERSION STRUCTURE SHALL BE CONSTRUCTED AS PER VILLAGE OF ALGONQUIN STANDARD DETAIL FOR SANITARY MANHOLE.
5. ALL PIPE GASKETS TO BE SOLVENT RESISTANT.
6. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
FUEL SPILL COLLECTION**

DRAWN:	DJD	SHEET 61 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		STM 13
REV 2:		
REV 3:		



NOTES:

1. ALL SUMP PUMP DISCHARGE LINES TO BE CONNECTED TO AN EXISTING STORM STRUCTURE BY CORING STRUCTURE WALL. CORING TO BE DONE ONLY BY VILLAGE OF ALGONQUIN PUBLIC WORKS OR VILLAGE AUTHORIZED CONTRACTOR.
2. CONNECTION OF SUMP PUMP DISCHARGE LINES TO DRAINAGE STRUCTURES MUST BE INSPECTED BY THE VILLAGE OF ALGONQUIN.
3. INSTALLER ASSUMES FULL RESPONSIBILITY AND LIABILITY FOR ANY AND ALL DAMAGE TO UTILITIES OR ADJOINING PROPERTIES.
4. THE DISCHARGE FROM A SUMP PUMP AND/OR ROOF DRAINAGE DOWNSPOUT SHALL NOT DISCHARGE DIRECTLY OR INDIRECTLY ON OR OVER ANY PUBLIC STREET, SIDEWALK, MULTI-USE PATH, OR RIGHT-OF-WAY; AND THE OUTLET OF A SUMP PUMP DISCHARGE PIPING SHALL NOT BE LOCATED WITHIN 5 FEET OF ANY PROPERTY LINE, SHALL BE ORIENTED TO DISCHARGE IN THE DIRECTION OF THE ENGINEERED DRAINAGE PATH AND SHALL NOT CAUSE STANDING WATER ON ADJACENT PROPERTIES.

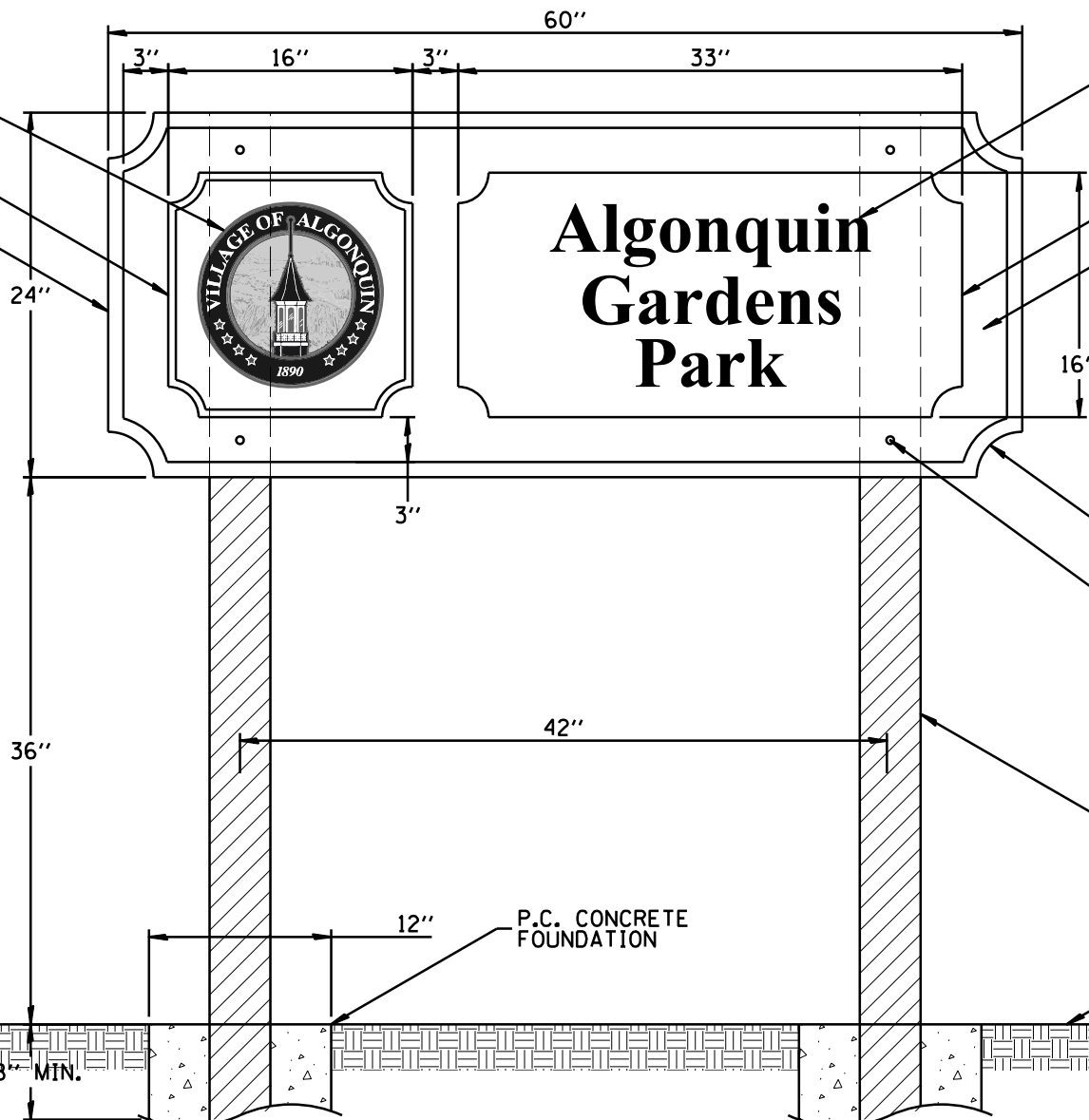


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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
SUMP PUMP CONNECTION**

DRAWN:	DJD	SHEET 62 OF 96
APPROVED:	CVC	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		STM 14
REV 2:		
REV 3:		

VILLAGE LOGO
(BROWN BORDER,
LETTERING,
AND LOGO WITH
TAN BACKGROUND)
1/2" WIDE
BROWN BORDER
1" WIDE
BROWN BORDER



3 1/2" HIGH UPPER
& LOWER CASE
TIMES NEW ROMAN BOLD
TAN LETTERING. (HEIGHT
MAY NEED TO BE
ADJUSTED DEPENDING
ON THE LENGTH OF
THE PARK NAME)

BROWN
BACKGROUND
TAN
BORDER

3/4" THICK ROUTED
RECYCLE PLASTIC SIGN
WITH CORNERS CUT AT
3" RADIUS
4" STEEL LAG BOLTS,
1/2" DIA. (TYP.)

4" X 4" X 96"
BROWN RECYCLED
PLASTIC POST

EXISTING GROUND

P.C. CONCRETE
FOUNDATION

SOLE SUPPLIER:
AMERICAN RECYCLED PLASTIC
773 N. UNION GROVE RD.
FRIENDSVILLE, TN 37737
WWW.ITSRECYCLED.COM
865-738-3439



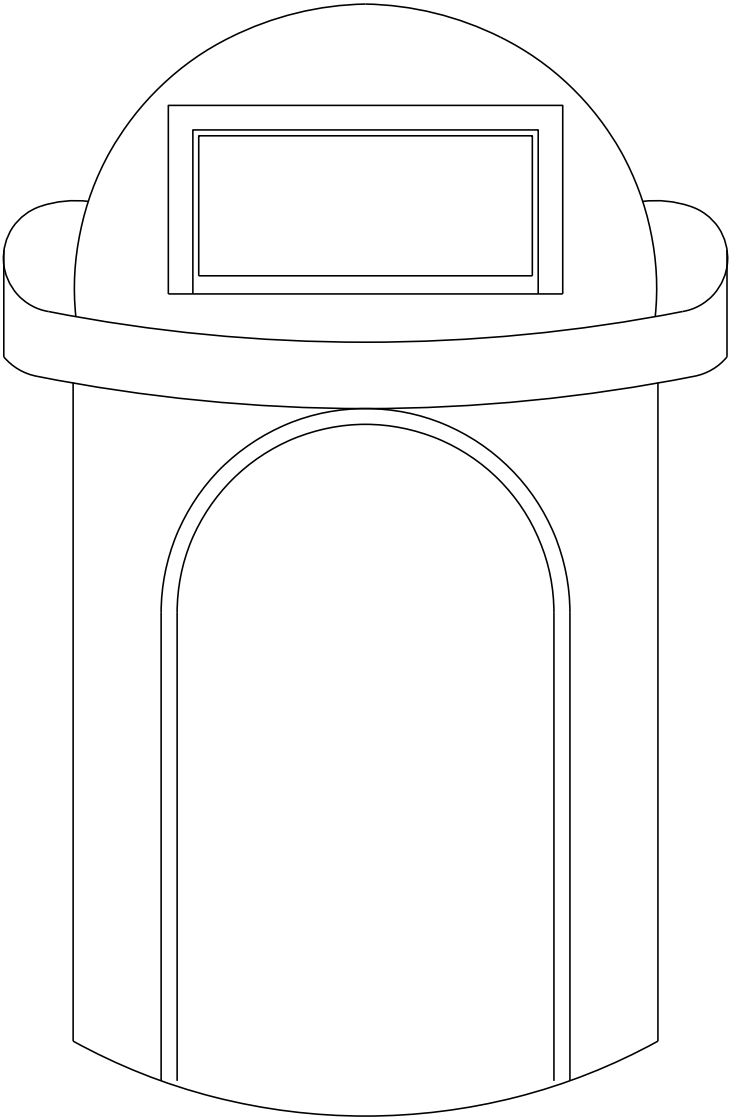
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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS PARK SIGN

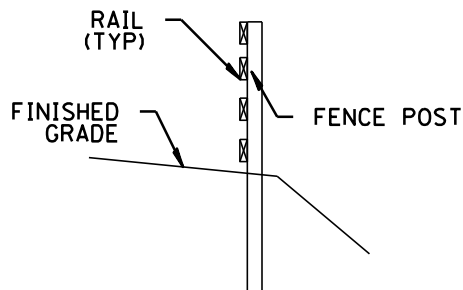
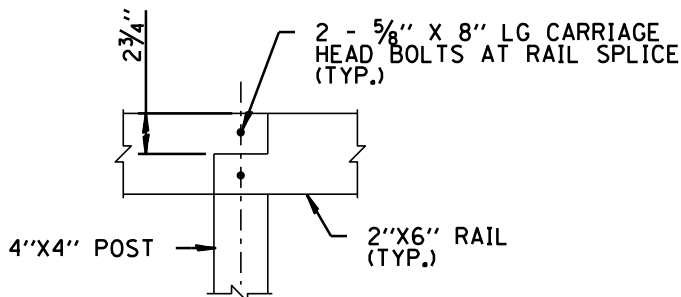
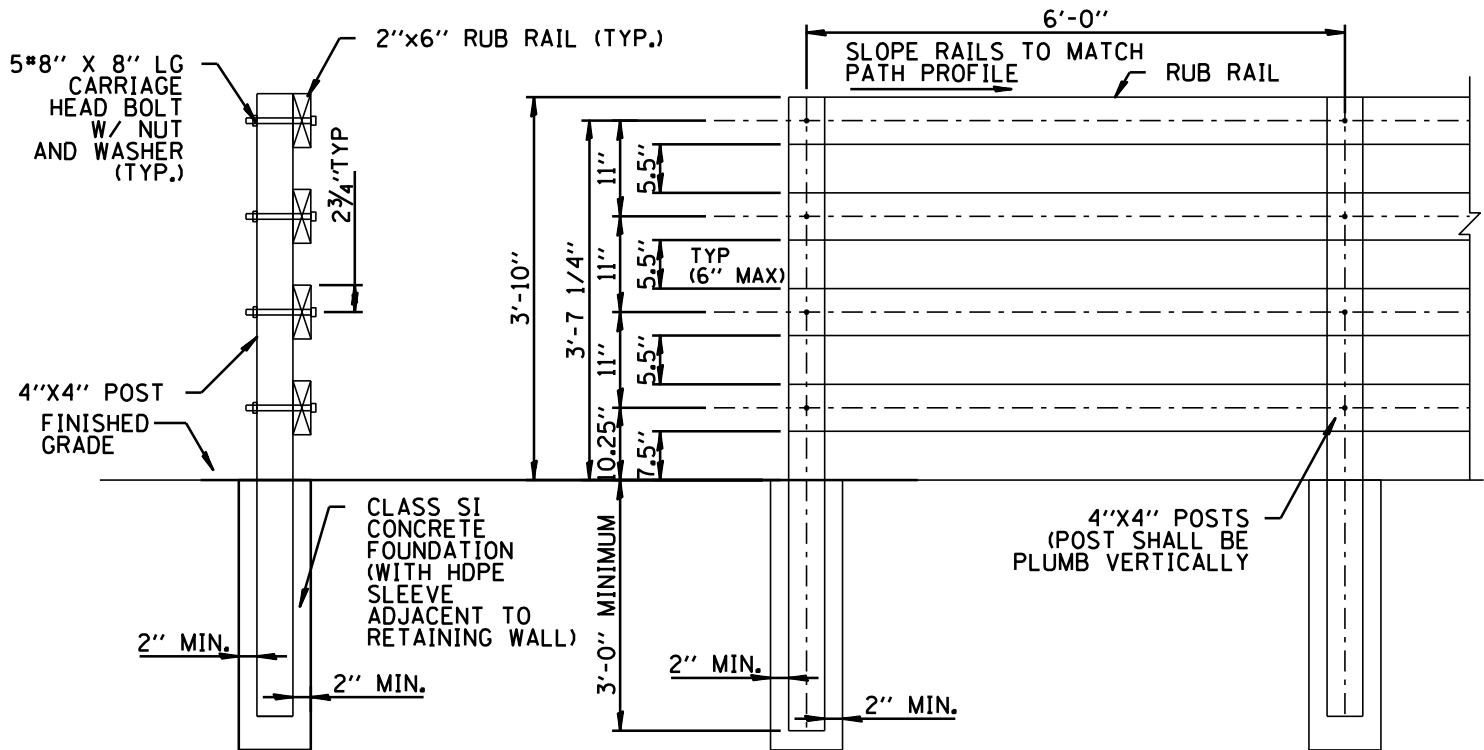
DRAWN:	DJD	SHEET 63 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		PAR 01
REV 2:		
REV 3:		

NOTES:

- 1. SMART INDUSTRY PRODUCTS MODEL S7107A-00 WITH LINER AND LANYARD KIT.
BLACK LID AND BLACK BODY, DOME TOP WITH DOOR. NO SUBSTITUTIONS ALLOWED.



DRAWN:	DJD	SHEET 64 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		PAR 02
REV 2:		
REV 3:		



NOTES:

LUMBER.

1. ALL LUMBER IS TO BE SOUTHERN YELLOW PINE #1 GRADE OR BETTER AND GRADED UNDER THE SOUTHERN PINE INSPECTION BUREAU, FB-1650 PSI (MIN). (SPIB) GUIDELINES AND IS TO HAVE THE APPROPRIATE GRADE STAMP CLEARLY MARKED.
2. ALL MEMBERS ARE TO BE S4S (SURFACE FOUR SIDES).
3. ALL LUMBER SHALL BE PRESSURE TREATED TO A MINIMUM OF 0.6 LBS/CU. FT. RETENTION.
4. ALL LUMBER SHALL BE KILN DRIED AFTER TREATMENT (KDAT) TO 19 % MAXIMUM MOISTURE CONTENT.

HARDWARE AND MISCELLANEOUS MATERIALS.

1. ALL BOLTS, WASHERS, NUTS SHALL BE A307 STEEL AND HOT DIPPED GALVANIZED PER AASHTO SPECIFICATION *M-232.
2. ALL FASTENERS SHALL BE HOT DIPPED GALVANIZED PER AASHTO SPECIFICATION *M-232. TREAT ALL FIELD MODIFICATIONS TO STEEL PARTS WITH COLD GALVANIZING PAINT.

SPECIFICATIONS.

1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION 1997 EDITION, BY NATIONAL FOREST PRODUCTS ASSOC.
2. AMERICAN WOOD PRESERVERS ASSOCIATION STANDARDS, WATERBORNE PRESERVATIVE STANDARD P5 TYPE A, STANDARD C2, AND STANDARD C14.

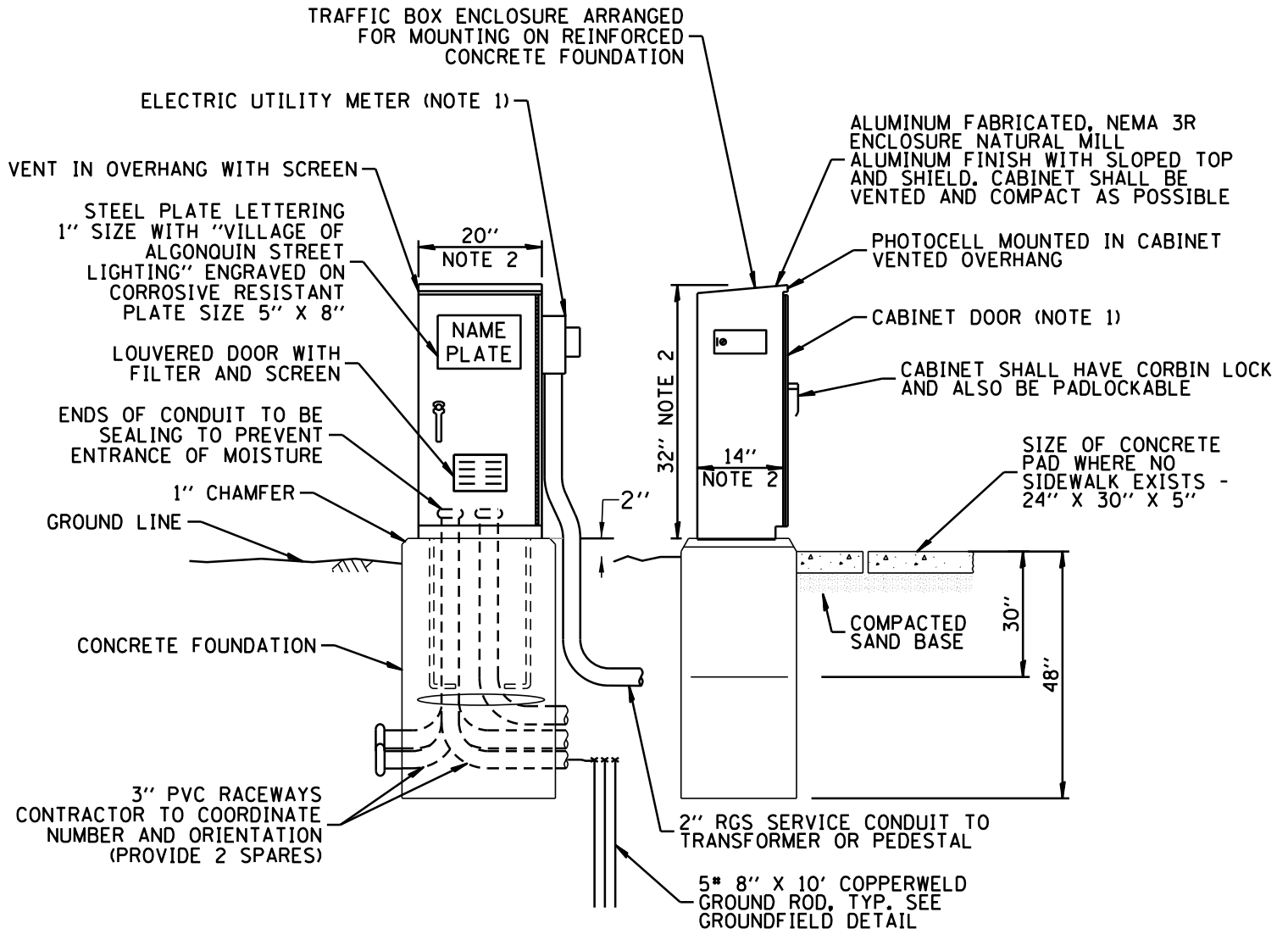


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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS RUB RAIL DETAIL

DRAWN:	DJD	SHEET 66 OF 96
APPROVED:	CVG	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		PAR 04
REV 2:		
REV 3:		

LIGHTING CONTROLLER CABINET & FOUNDATION FOR RESIDENTIAL AND COMMERCIAL DISTRICTS



NOTES:

1. SEE DETAILS FOR CABINET METER FITTING & DOOR
2. CABINET DIMENSIONS SHOWN ARE APPROXIMATE, CABINET SHALL BE TYPE III SIZE OR BE AS COMPACT AS POSSIBLE, CONTRACTOR TO COORDINATE.

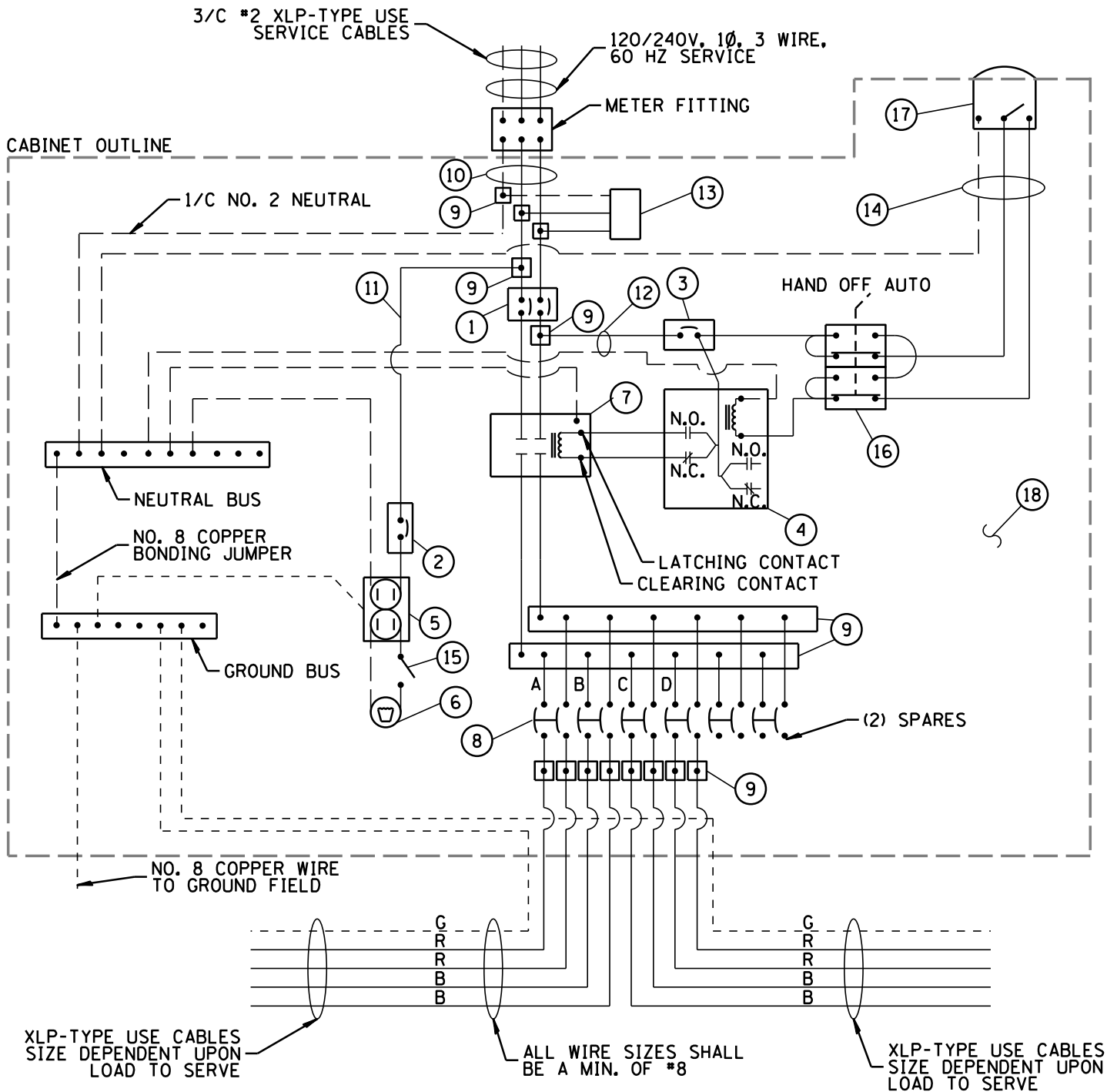


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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS LIGHTING CONTROLLER CABINET & FOUNDATION

DRAWN:	JMZ	SHEET 67 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 01
REV 2:		
REV 3:		

_____ PHASE CONDUCTOR
 - - - - - NEUTRAL CONDUCTOR
 - - - - - GROUND CONDUCTOR



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VILLAGE OF ALGONQUIN
 STANDARD CONSTRUCTION DETAILS
 LIGHTING CONTROLLER WIRING DIAGRAM

DRAWN:	JMZ	SHEET 68 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 02
REV 2:		
REV 3:		

ITEM	SPECIFICATION	MFG./MODEL NO. OR APPROVED EQUAL
① MAIN CIRCUIT BREAKER	100 AMPERE, 2P, 240V SERVICE RATING, 10KAIC	SIEMENS NO. ED42B100
② LAMPHOLDER CIRCUIT BREAKER	20 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED41B20
③ PHOTOELECTRIC CONTROL CIRCUIT BREAKER	15 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED41B15
④ AUXILIARY RELAY	120 V OPERATED DPDT 60 HZ COIL 2 NO & 2 NC CONTACTS	MAGNECRAFT NO. 389 FXBXC1 - 120A
⑤ CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF COVER	RECEPTACLE: LEVITON NO. 8899, BOX: APPLETON NO. WSM150 COVER: APPLETON NO. WHG1
⑥ CABINET LIGHT AND BOX	120V WEATHERPROOF LAMPHOLDER MOUNTED IN A CAST ALUMINUM BOX & EXT. GRADE 100W LAMP	LIGHT & BOX: RAB NO. VX100DG
⑦ CONTACTOR	100 AMPERE, 2 POLE, 120 V COIL, MECH HELD	SQUARE D NO. 8903 S00 10 V02
⑧ BRANCH LINE CIRCUIT BREAKERS	50 AMPERE, 1P, 120V RATING, 10KAIC, GFCI	CUTLER/HAMMER NO. EHD1050
⑨ POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED	MARATHON
⑩ SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2	N/A
⑪ LAMPHOLDER WIRE	2-600V XLP NO. 12	N/A
⑫ CONTROL WIRE	2-600V XLP NO. 12	N/A
⑬ SURGE ARRESTOR	10 K AMPERE RATING	SQUARE D NO. SDSA 1175
⑭ PHOTOELECTRIC CONTROL WIRE	3-600V XLP NO. 12	N/A
⑮ DOOR SWITCH	20A/120V, DOOR MOUNTED SNAP ACTION TYPE PLUNGER SWITCH	OMRON NO. A-20G0-K
⑯ HAND-AUTO-OFF CONTROL SWITCH	20A, 3 POS. MTD IN CAST ALUM. ENCLOSURE	SQUARE D NO. 9001 KYK 111
⑰ PHOTOCCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC	FISHER PIERCE NO. FPFA-105M
⑱ BACK PANEL	1/2" THICK SOLID PHENOLIC LAMINATE	ARBORON

NOTES:

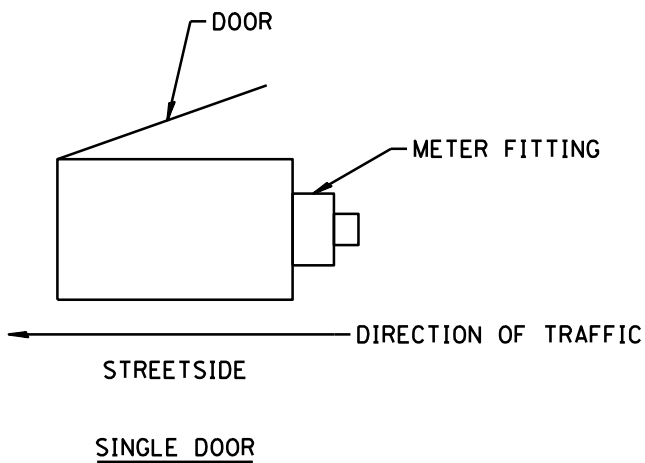
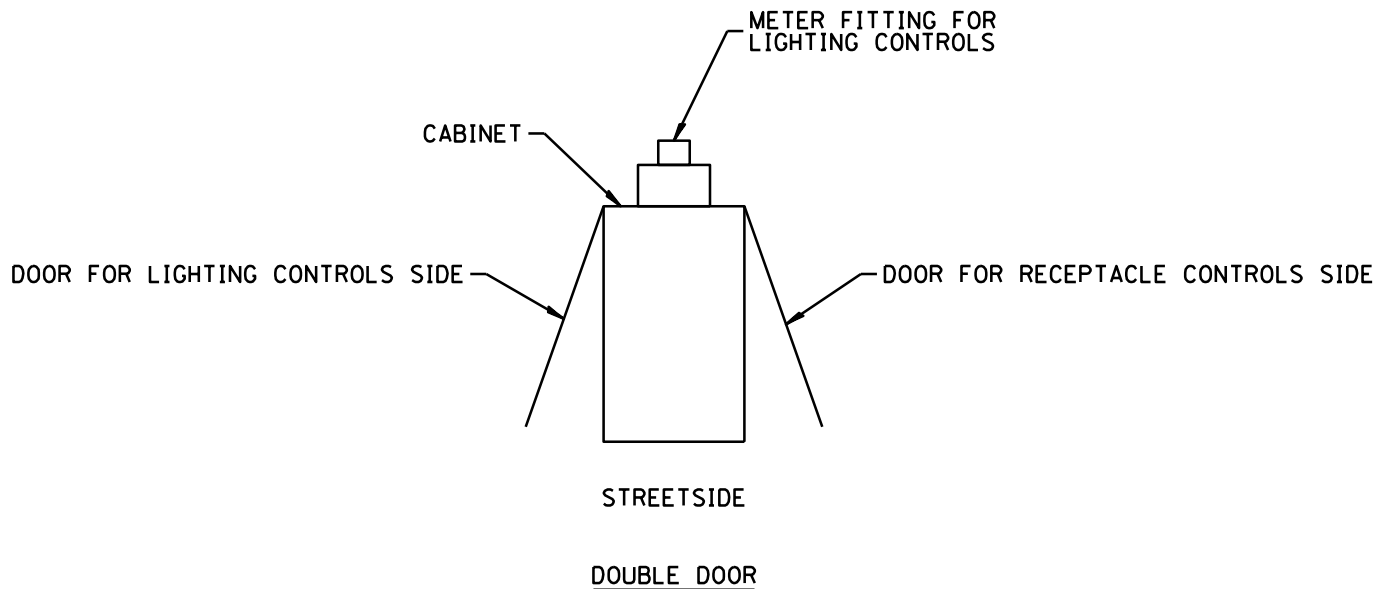
- ALL ITEMS LISTED IN LIGHTING CONTROLLER COMPONENT SCHEDULE SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR "LIGHTING CONTROLLER" INCLUDING CABINET AND FOUNDATION.
- THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "ENCLOSED INDUSTRIAL CONTROL PANEL" UNDER UL508A.
- CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED".

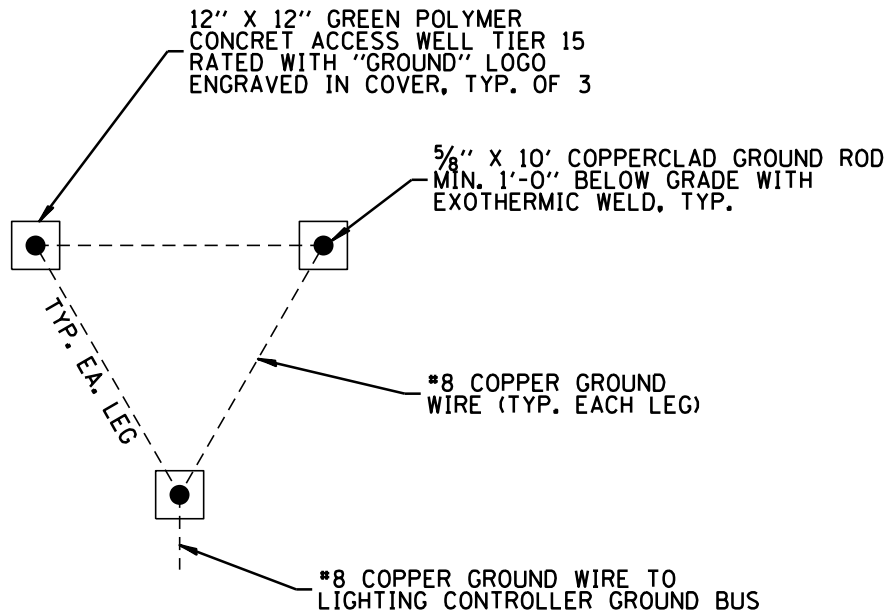


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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
LIGHTING COMPONENT SCHEDULE

DRAWN:	JMZ	SHEET 69 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 03
REV 2:		
REV 3:		

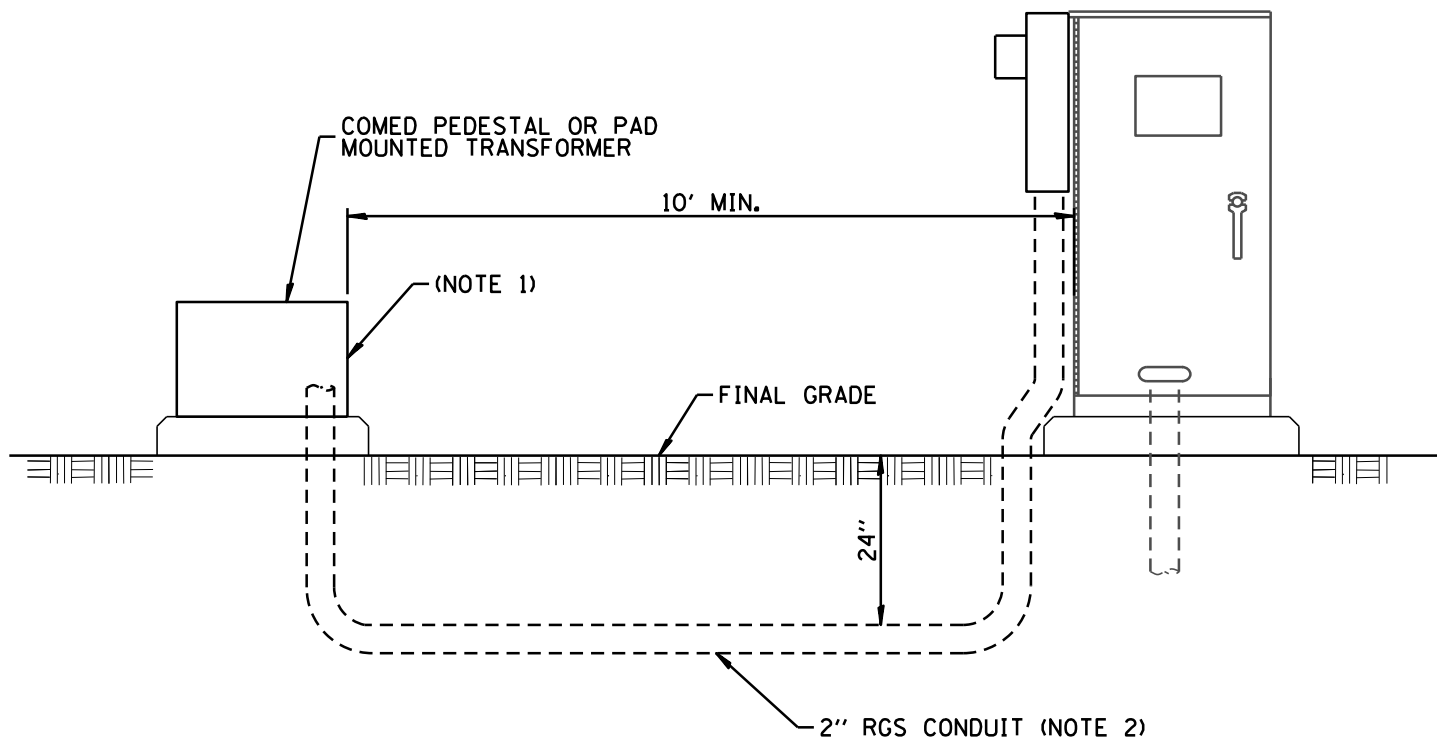




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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
GROUND FIELD DETAIL**

DRAWN:	JMZ	SHEET 71 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 05
REV 2:		
REV 3:		



NOTES:

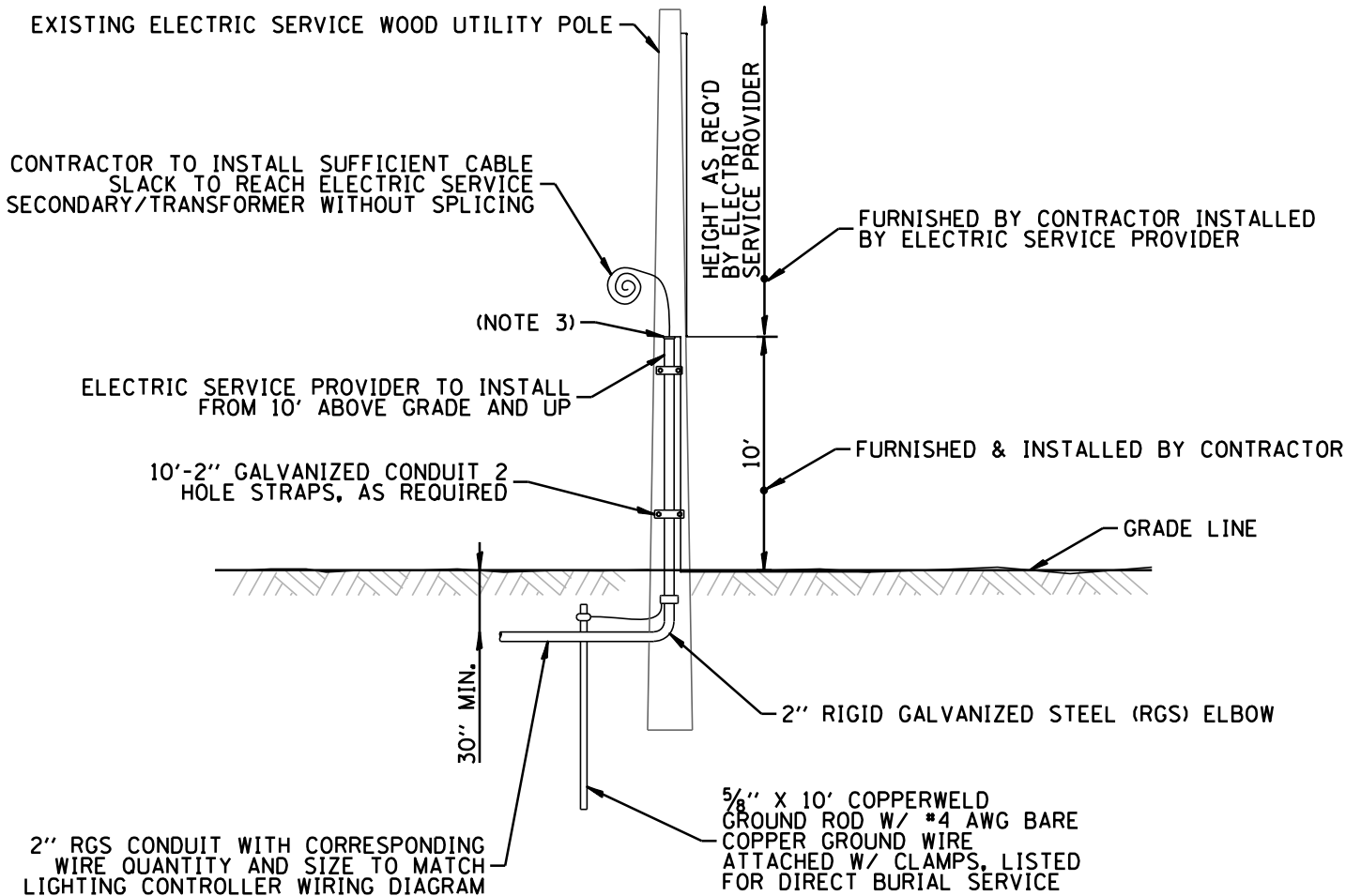
1. ELECTRIC SERVICE PEDESTAL OR TRANSFORMER LOCATED IN EASEMENT. COMED WILL PROVIDE CONNECTORS FOR CABLES AND CONNECT CABLES WITHIN THE COMED ENCLOSURE. COMED WILL IDENTIFY CUSTOMER'S STREET LIGHT CABLE.
2. WIRE SIZE TO MATCH WIRE SIZE CALLED OUT IN LIGHTING CONTROLLER WIRING DIAGRAM.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
UNDERGROUND SERVICE INSTALLATION**

DRAWN:	JMZ	SHEET 72 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 06
REV 2:		
REV 3:		



NOTES:

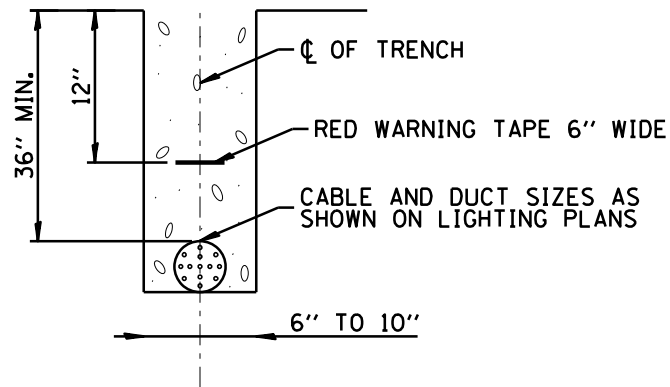
1. ALL WORK SHALL CONFORM TO ELECTRIC SERVICE PROVIDER'S BOOK OF "INFORMATION AND REQUIREMENTS FOR THE SUPPLY OF ELECTRIC SERVICE."
2. CONTRACTOR TO PROVIDE A CONDUIT BUSHING AND SEALING COMPOUND AT TOP OF RISER.



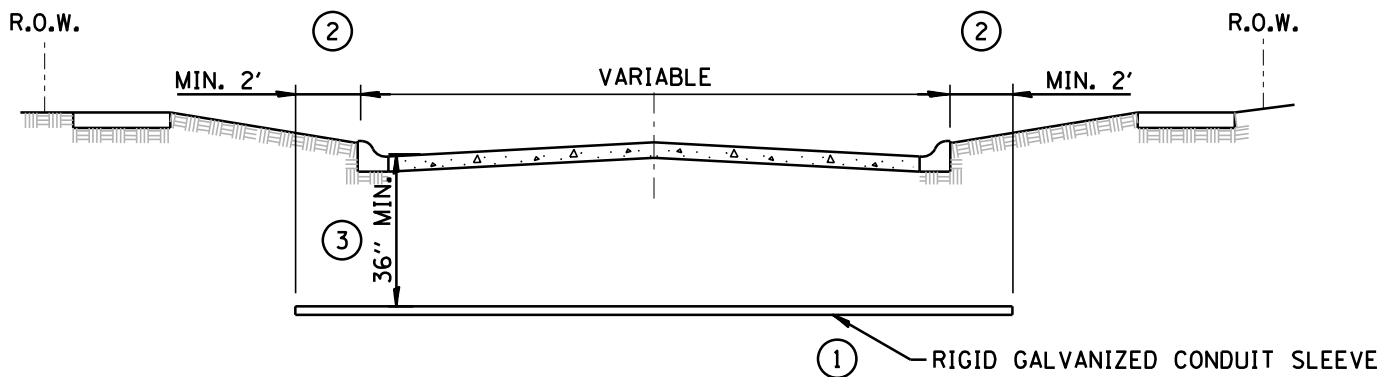
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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
OVERHEAD SERVICE INSTALLATION**

DRAWN:	JMZ	SHEET 73 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 07
REV 2:		
REV 3:		



TRENCH CROSS SECTION



ROADWAY OR DRIVEWAY CROSSING

NOTES:

- ① SLEEVE SHALL BE HEAVY WALL RIGID GALVANIZED STEEL (RGS) CONDUIT.
- ② SLEEVE SHALL EXTEND A MINIMUM OF 2' BEYOND BACK OF CURB.
- ③ SLEEVE SHALL BE A MINIMUM OF 36" TO TOP OF PAVEMENT OR FINAL GRADE.
- ④ SLEEVE SHALL BE SCH 80 RIGID PVC OR SDR 13.5 UNDER RESIDENTIAL DRIVEWAYS.



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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
CONDUIT DETAIL

DRAWN:	JMZ	SHEET 74 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 08
REV 2:		
REV 3:		

HEAT-SHRINKABLE CAP WITH FACTORY
APPLIED WATERPROOF SEALANT (SIZED
TO ACCOMMODATE NUMBER OF CABLES)

TRIMMED CABLES

COMPRESSION TYPE COPPER
SLEEVE (SIZED FOR ACTUAL
NUMBER OF CABLES AND MFG.
SUGGESTED CRIMP TOOL USED)

SEALANT TAPE OR
INSERT (AROUND AND
THROUGH CROTCH SPACE)

EXPOSED SEALANT

ELECTRIC BRANCH CABLE (SIZE AS
NOTED ON CONTRACT DRAWINGS)

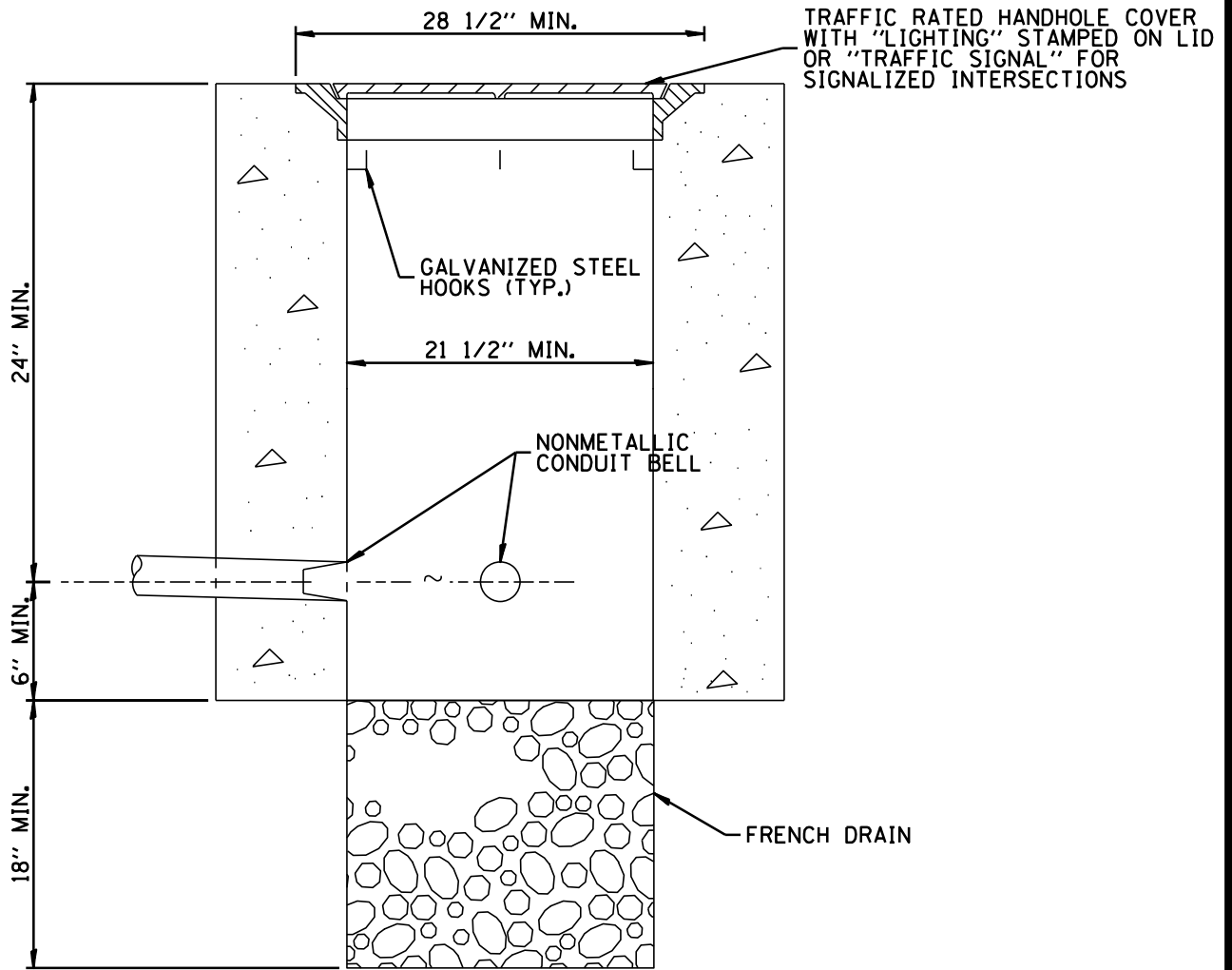
#10 AWG ELECTRIC
CABLE TO LUMINAIRE



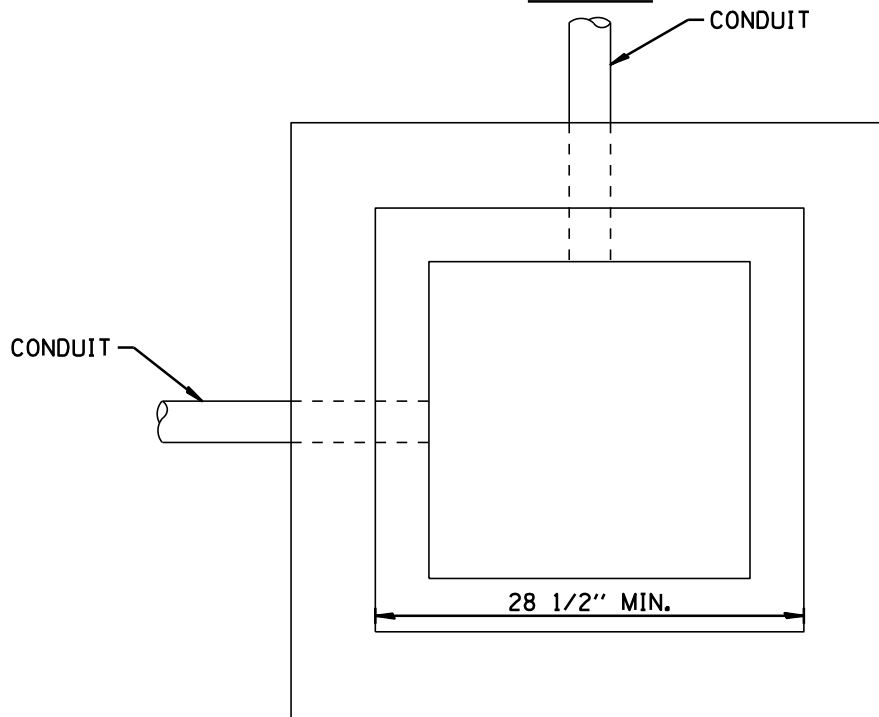
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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
ELECTRIC CABLE SPLICE DETAIL**

DRAWN:	JMZ	SHEET 75 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 09
REV 2:		
REV 3:		



ELEVATION



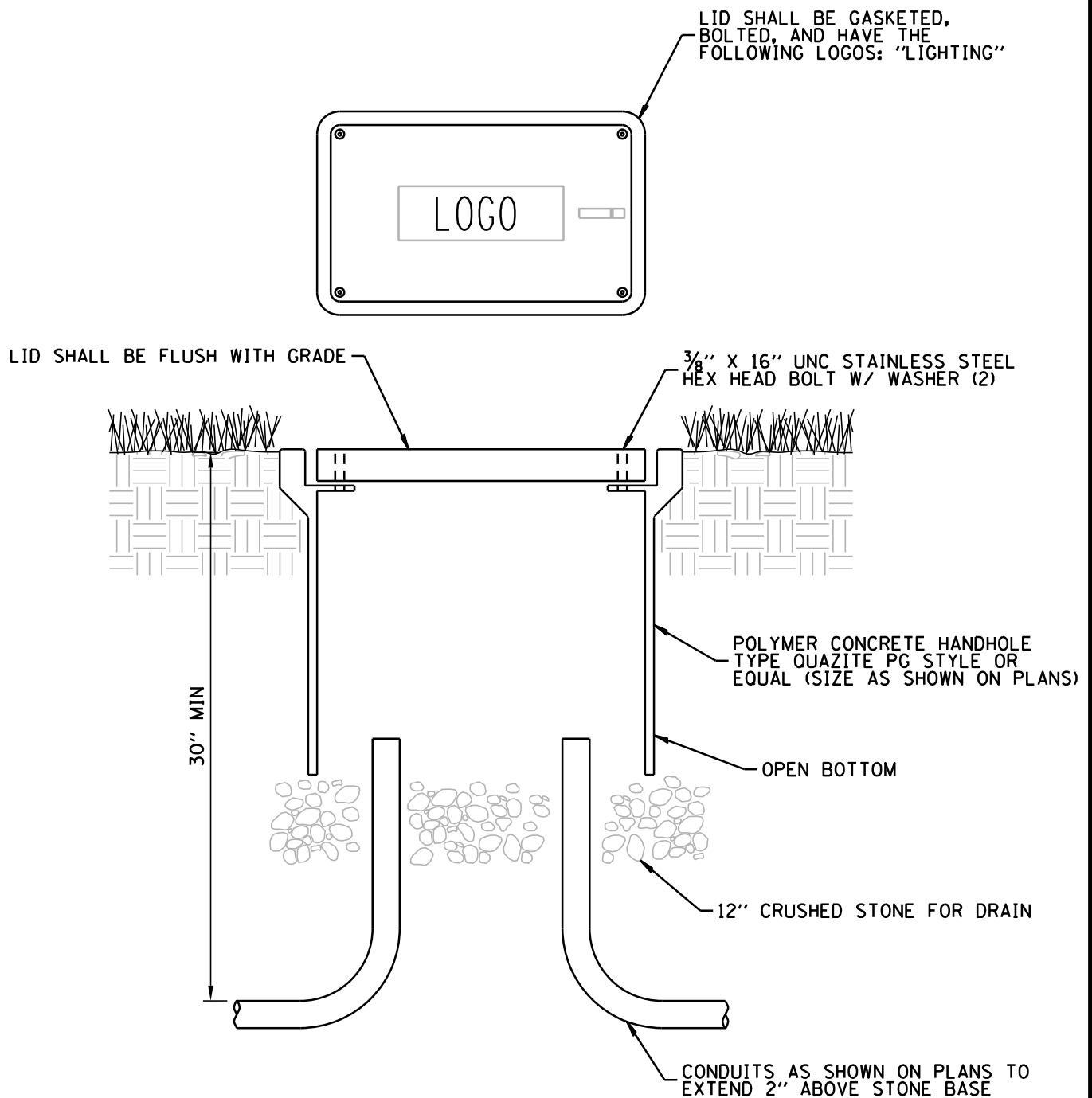
PLAN



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
CONCRETE HANDHOLE**

DRAWN:	JMZ	SHEET 76 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 10
REV 2:		
REV 3:		



NOTES:

1. ALL SPLICES SHALL BE WATERPROOF, SEE SPLICING DETAIL.
2. POLYMER CONCRETE HANDHOLE AND LID SHALL BE GREY.
3. BOX & LID SHALL MET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS AND BE TEST IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SCTE 77 "SPECIFICATIONS FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPH 5.2.3 AND 5.2.4 OF WESTER UNDERGROUND COMMITTEE GUIDE 3.6.



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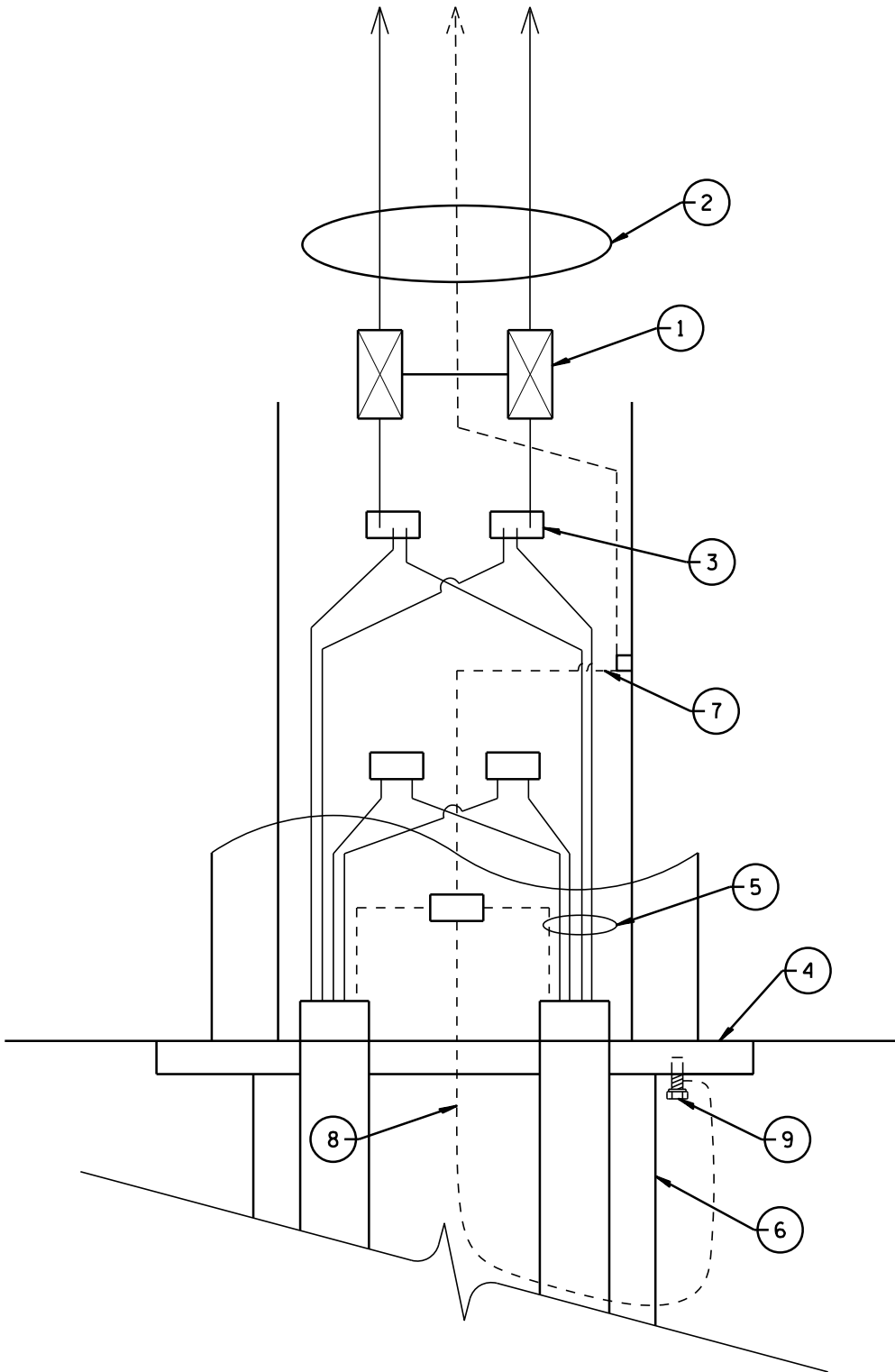
**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
JUNCTION BOX DETAIL**

DRAWN:	JMZ	SHEET 77 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 11
REV 2:		
REV 3:		

TO 240V LUMINAIRE

PHASE CONDUCTOR

GROUND CONDUCTOR



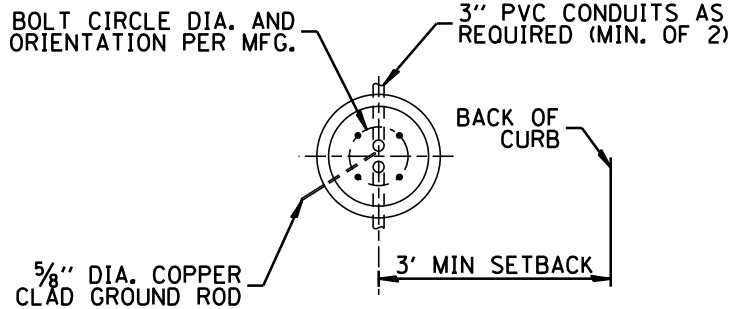
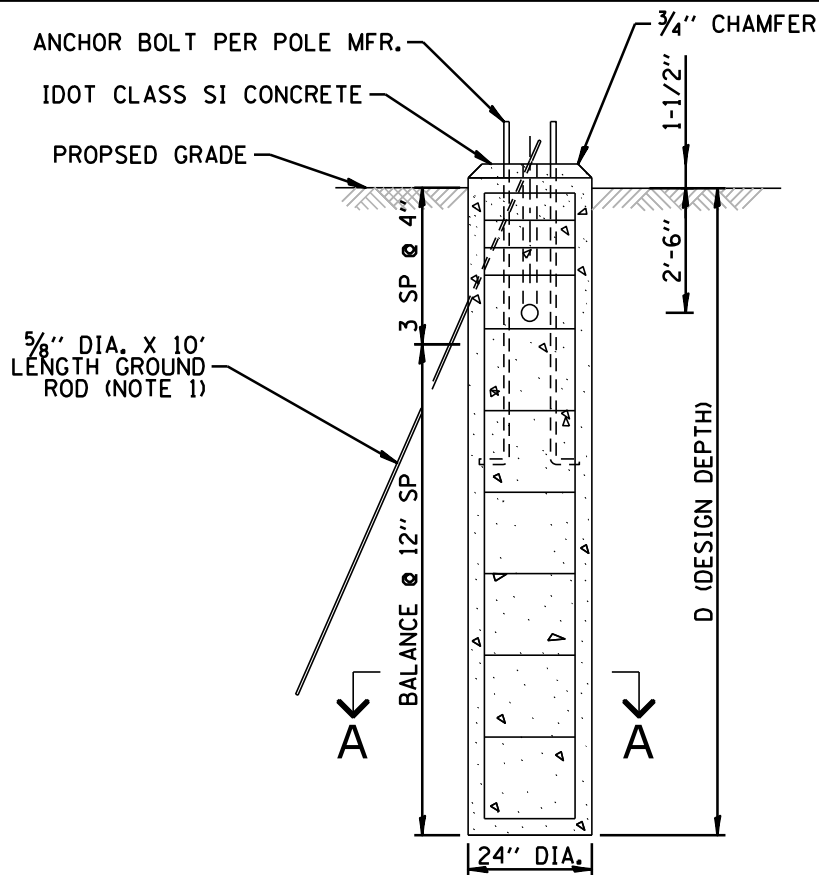
- 1 CONNECTOR KIT METHOD WITH A 5 AMP FUSE INSIDE A TWO POLE FUSE HOLDER AND INSULATING BOOTS
- 2 #10 A.W.G. WIRE
- 3 MULTIPLE COMPRESSION FITTINGS (SPICE)
- 4 POLE FOUNDATION, HELIX OR CONCRETE
- 5 WIRE AS SHOWN ON PLANS
- 6 CABLES IN DUCT AS SHOWN ON PLANS
- 7 POLE GROUND LUG
- 8 #6 GROUND WIRE CONNECTED TO METAL POLE FOUNDATION
- 9 3/8" GALV. HEX BOLT & LOCKWASHER WITH COMPRESSION TERMINAL FOR GROUND WIRE CONNECTION TO METAL POLE FOUNDATION



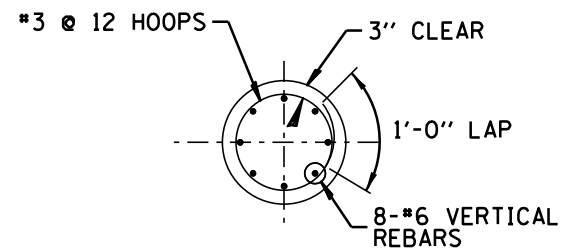
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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
HANDHOLE WIRING DIAGRAM

DRAWN:	JMZ	SHEET 78 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 12
REV 2:		
REV 3:		



PLAN



SECTION A-A

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION
SOFT CLAY ($Q_u=0.375$ TON/SF)	13'-0"
MEDIUM CLAY ($Q_u=0.75$ TON/SF)	9'-6"
STIFF CLAY ($Q_u=1.50$ TON/SF)	7'-0"
LOOSE SAND ($\phi=34^\circ$)	9'-0"
MEDIUM SAND ($\phi=37.5^\circ$)	8'-3"
DENSE SAND ($\phi=40^\circ$)	7'-9"

NOTES:

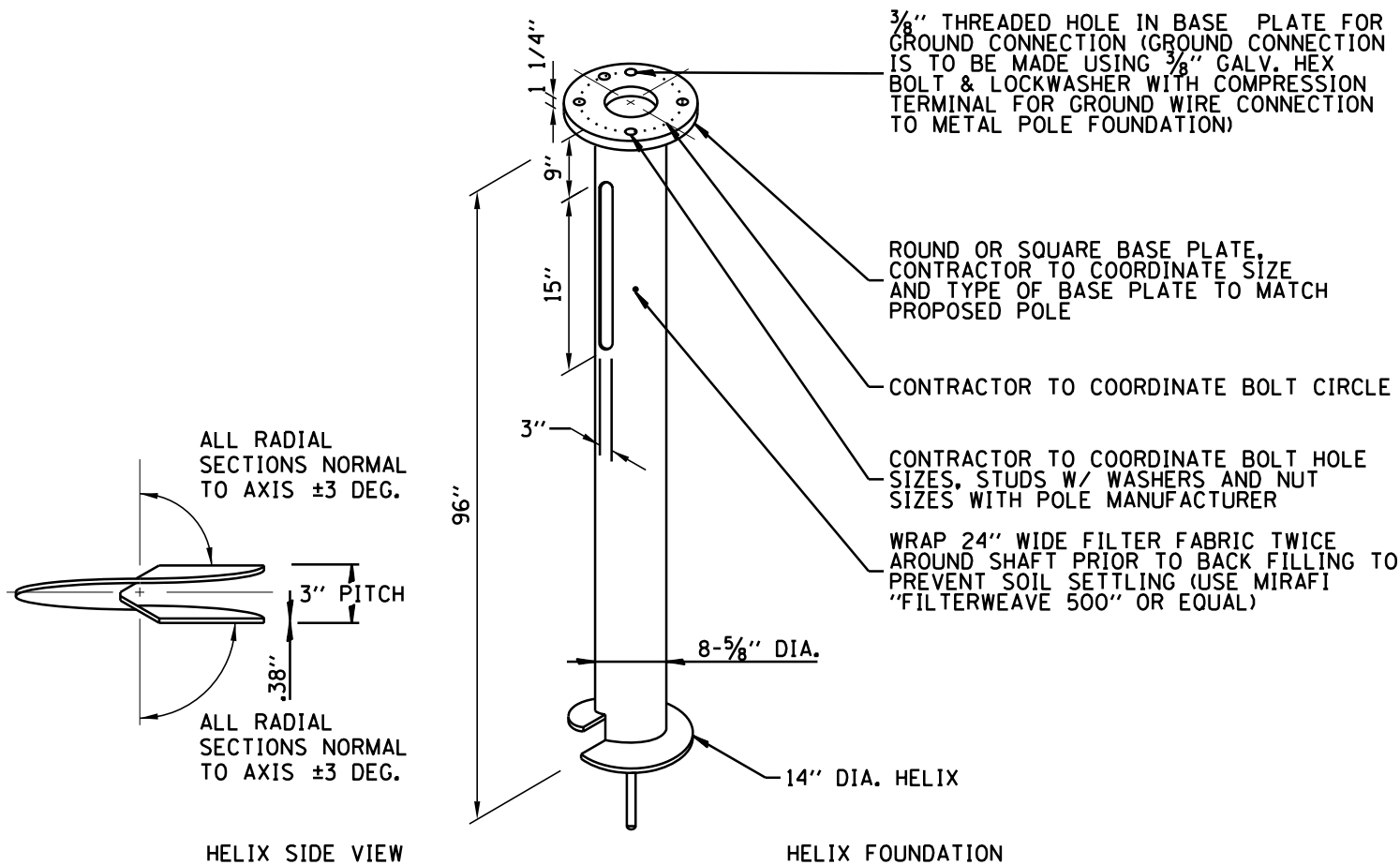
- GROUND ROD SHALL BE CAST INTO CONCRETE FOUNDATION WITH 8 FEET IN CONTACT WITH SOIL.
- FOUNDATIONS SHALL BE VIBRATED IN ACCORDANCE WITH IDOT STANDARD PRACTICES.



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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
ROADWAY CONCRETE FOUNDATION DETAIL

DRAWN:	JMZ	SHEET 79 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 13
REV 2:		
REV 3:		



NOTES:

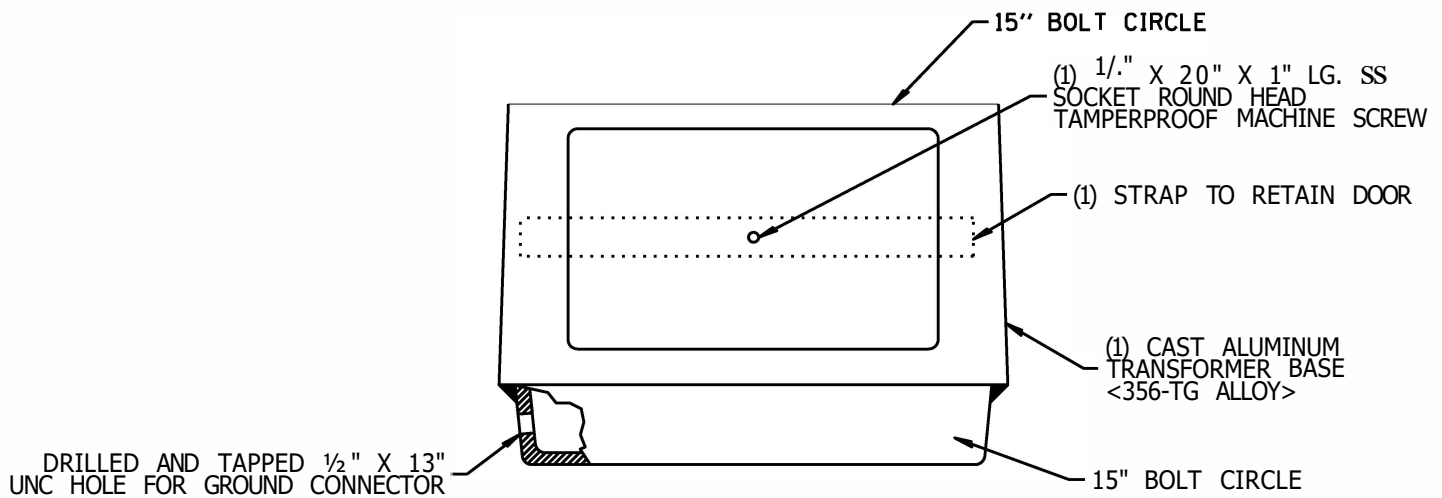
1. FINISH: HOT DIP GALVANIZED PER AASHTO M111 (LATEST REVISION).
2. BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS (± 1 DEG.) AND HOLE CENTERLINE CONCENTRIC ($\pm .188$) TO SHAFT AXIS.
3. STENCIL MIN. $\frac{1}{2}$ " LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING
4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (± 125 FIM) AND IN LINE (± 2 DEG.).
5. FLAME CUT SLOT PERPENDICULAR TO THE BASEPLATE.
6. PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
7. FLAMECUT IRREGULARITIES PERMISSIBLE: (1) VALLEYS NOT TO EXCEED $\frac{3}{32}$ " BELOW NOMINAL SURFACE LEVEL, (2) PEAKS OR POSITIVE IRREGULARITIES NOT TO EXCEED $\frac{1}{32}$ " ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES
8. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
9. ALL MATERIAL IS TO BE NEW, UNUSED, AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:
 BASEPLATE: ASTM A36 (LATEST REVISION) STRUCTURAL (CONFORM TO AASHTO TECH. BUL. #270)
 SHAFT: ASTM A252 (LATEST REVISION) GRADE 2, STEEL PIPE PILES. ALT. MATERIAL: ASTM A53 (LATEST REVISION) TYPE E OR S, GRADE B, STEEL PIPE OR ASTM A500 (LATEST REVISION) GRADE B, STRUCTURAL STEEL TUBING.
 HELIX: ASTM A635 (LATEST REVISION) $\frac{3}{8}$ " THICK HOT ROLLED STEEL PLATE OR COIL.
 PILOT POINT: ASTM A 575 (LATEST REVISION) 1- $\frac{1}{4}$ " DIA. HOT ROLLED STEEL BAR.
 BOLTS: 1" DIA. HOT DIP GALVANIZED STUDS IN ACCORDANCE WITH AASHTO M314 OR ASTM F1554.
10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN $\frac{1}{2}$ " LETTERS AND DATE CODE IN $\frac{1}{4}$ " LETTERS.



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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS METAL HELIX FOUNDATION

DRAWN:	JMZ	SHEET 80 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 14
REV 2:		
REV 3:		



NOTES:

- 1 BEFORE INSTALLATION OF BREAKAWAY BASE, USER SHOULD CONSULT WITH AUTHORIZED DISTRIBUTOR REGARDING USERS PROPOSED APPLICATION, LOAD REQUIREMENTS AND IT INSTALLATION METHODS. FAILURES CAN RESULT FROM USERS MISAPPLICATION OR IMPROPER INSTALLATION. TO APPROACH OPTIMUM STATIC LOADS, USE THE LARGEST POSSIBLE BOLT CIRCLES. SHIMS SHALL NOT BE ALLOWED.
- 2 THE TRANSFORMER SHALL BE FACTORY PAINTED BLACK IF UTILIZED IN THE HISTORIC DISTRICT AND RESIDENTIAL AREAS AND NOT PAINTED IN COMMERCIAL AREAS, STATE ROUTES, AND COUNTY ROUTES.

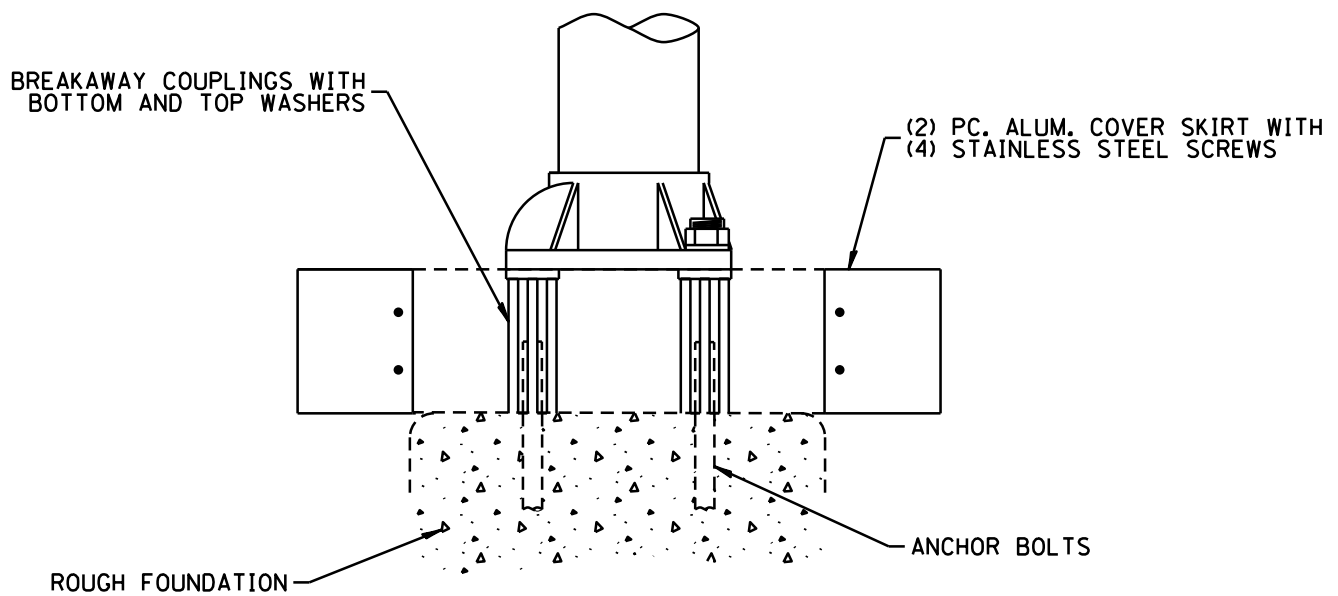


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**VILLAGE OF ALGONQUIN STANDARD
CONSTRUCTION DETAILS
TRANSFORMER BASE DETAIL**

DRAWN	JMZ	SHEET 81 OF 96
APPROVED	GAH	SCALE, N.T.S.
DATE,	1/21/2026	DRAWING NO.
REV 1.		
REV 2.		
REV 3.		

LGT 15



NOTES:

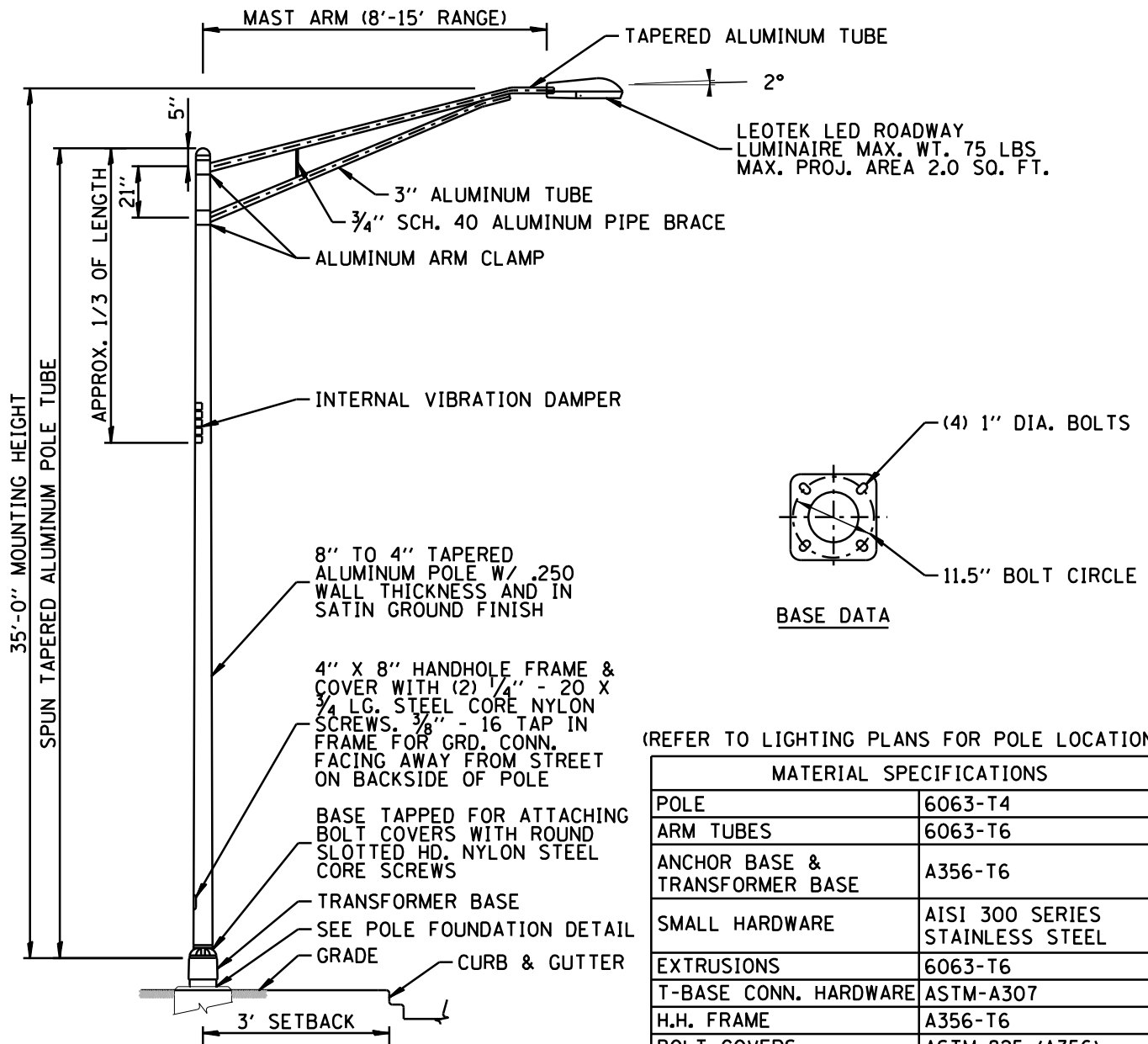
1. THE BREAKAWAY COUPLINGS SHALL BE FACTORY PAINTED BLACK IF UTILIZED IN THE HISTORIC DISTRICT AND RESIDENTIAL AREAS AND NOT PAINTED IN COMMERCIAL AREAS, STATE ROUTES, AND COUNTY ROUTES.



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
BREAKAWAY COUPLING DETAIL**

DRAWN:	JMZ	SHEET 82 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 16
REV 2:		
REV 3:		



NOTES:

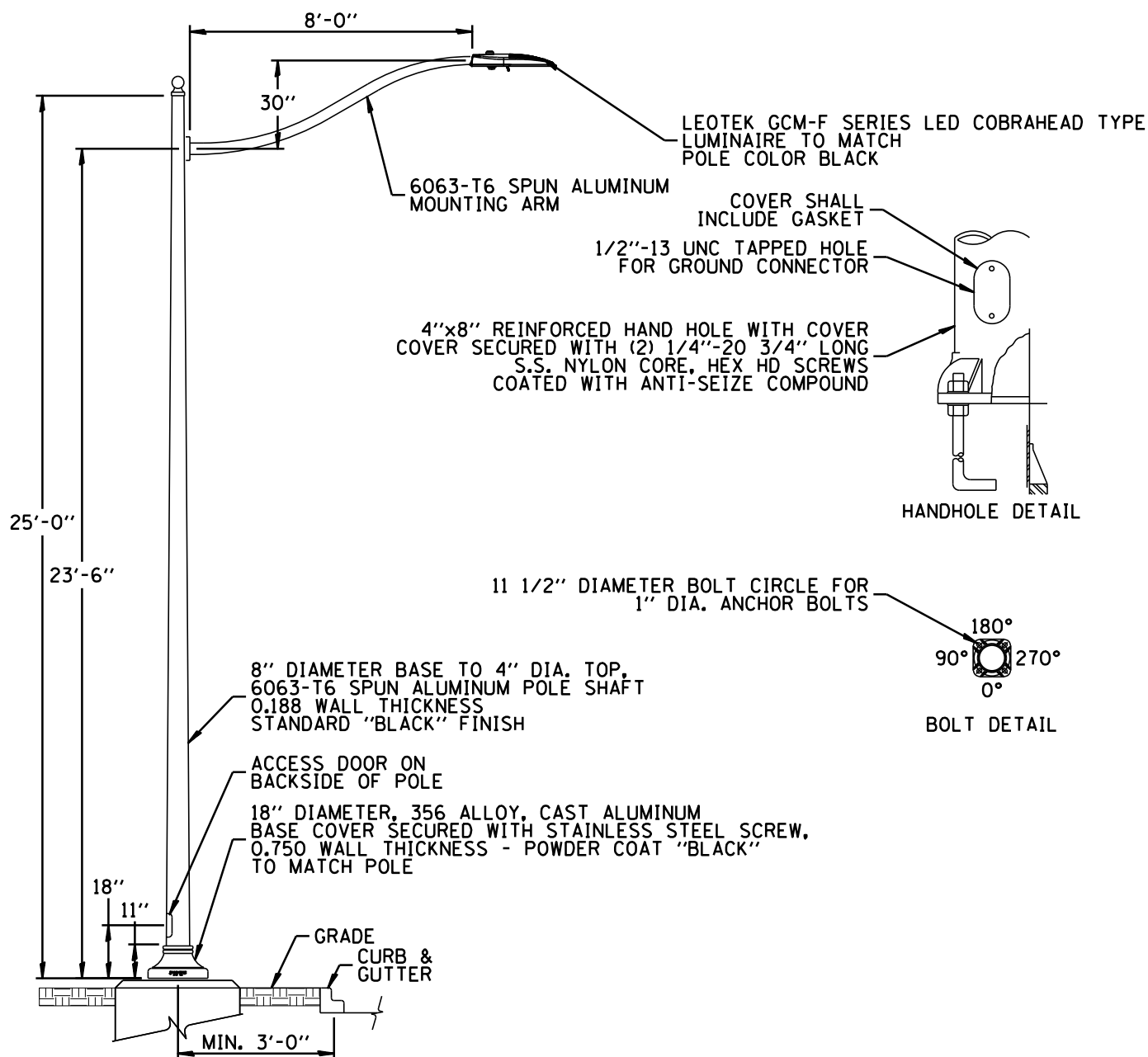
1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL STEEL SHALL BE FROM A DOMESTIC SOURCE.
2. THE LIGHT STANDARD SHALL MEET THE ILLUMINATION REQUIREMENTS AS SPECIFIED IN THE LUMINAIRE PERFORMANCE TABLES IN THE SPECIFICATIONS. ALL LUMINAIRES SHALL HAVE A MULTIVOLT DRIVER WIRED FOR 240 VOLTS OPERATION.
3. ALL LIGHT STANDARDS SHALL BE STERNBERG. LIGHT POLE SHALL BE U/L LISTED.
4. ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO ALL BOLTED AREAS DURING INSTALLATION.
5. REFER TO ALGONQUIN MUNICIPAL CODE CHAPTER 22.06 FOR ILLUMINANCE AND LUMINANCE VALUES OR AS APPROVED BY THE VILLAGE ENGINEER FOR ROADWAYS.



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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS LIGHT STANDARD & LUMINAIRE POLE 1

DRAWN:	JMZ	SHEET 83 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 17
REV 2:		
REV 3:		



NOTES:

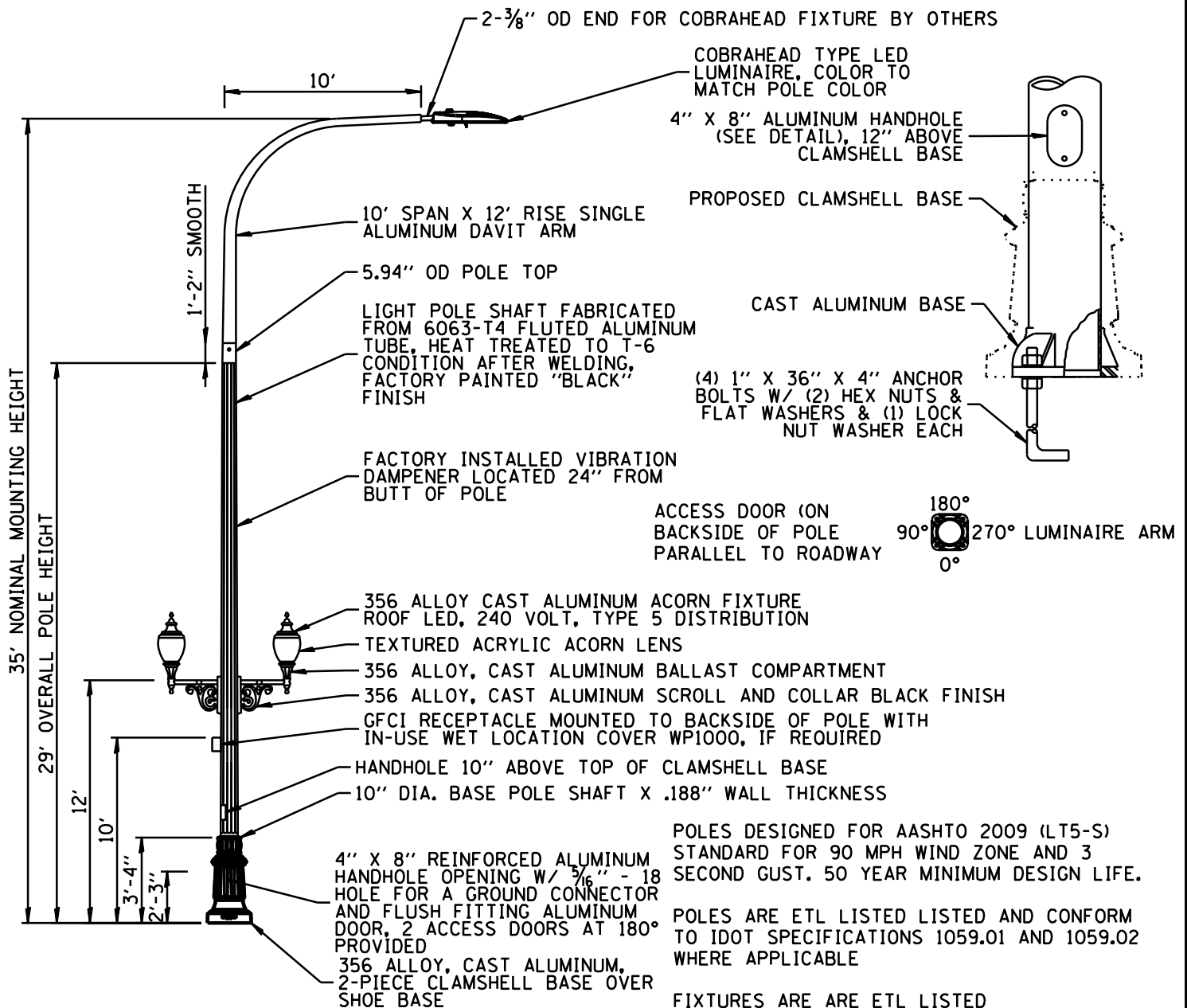
1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL STEEL SHALL BE FROM A DOMESTIC SOURCE. ALL LIGHT STANDARDS SHALL BE STERNBERG OR APPROVED EQUAL.
3. ALL LUMINAIRES SHALL HAVE A MULTIVOLT DRIVE FOR 240 VOLTS OPERATION.
4. LIGHT POLE SHALL BE U/L LISTED.
5. ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO ALL BOLTED AREAS DURING INSTALLATION.
6. REFER TO ALGONQUIN MUNICIPAL CODE CHAPTER 22.06 FOR ILLUMINANCE AND LUMINANCE VALUES OR AS APPROVED BY THE VILLAGE ENGINEER FOR ROADWAYS.

VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS LIGHT STANDARD & LUMINAIRE POLE 2

DRAWN:	JMZ	SHEET 84 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 18
REV 2:		
REV 3:		



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NOTES:

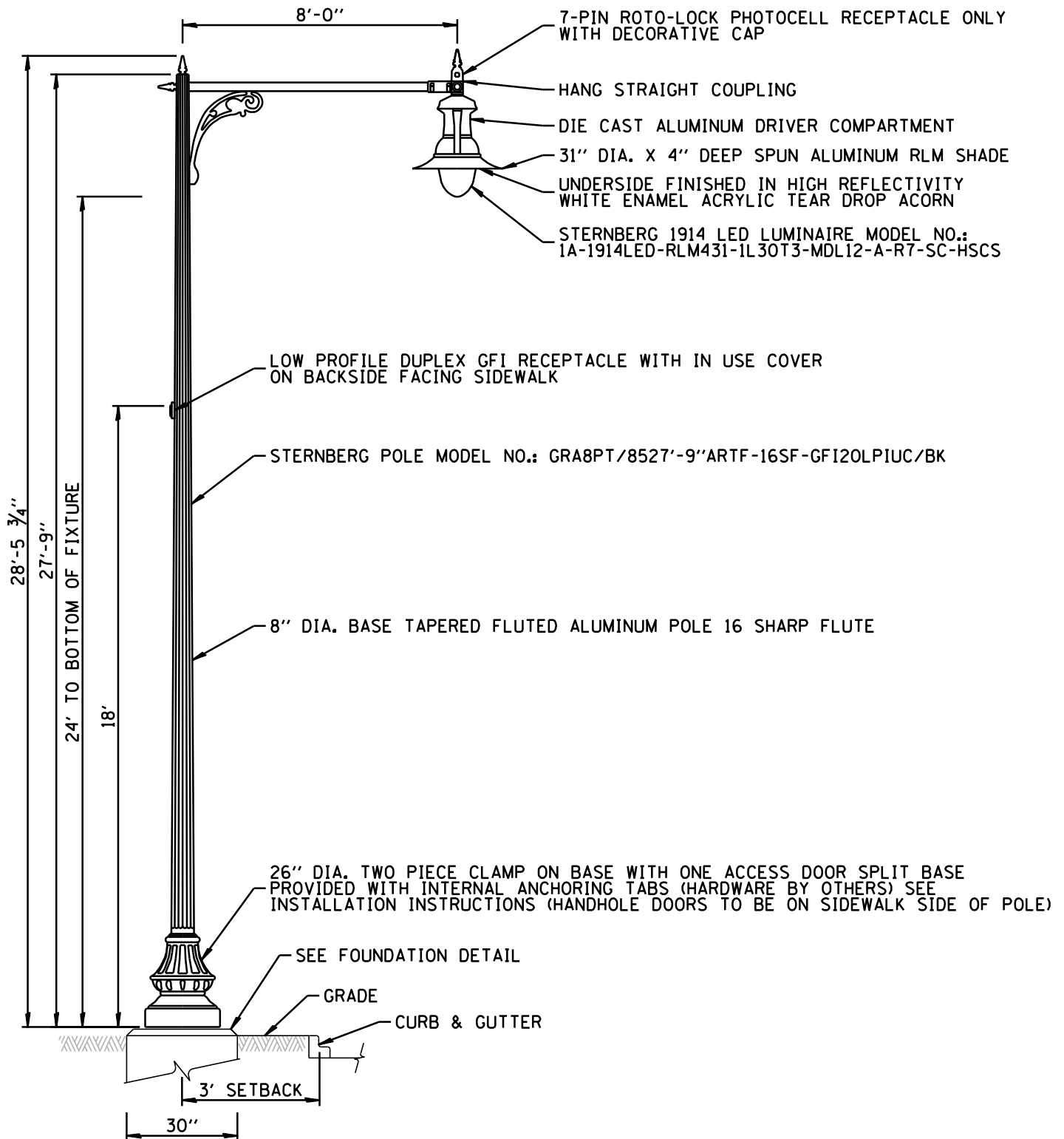
1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL STEEL SHALL BE FROM A DOMESTIC SOURCE. ALL LIGHT STANDARDS SHALL BE STERNBERG OR APPROVED EQUAL.
3. ALL LUMINAIRES SHALL HAVE A MULTIVOLT DRIVE FOR 240 VOLTS OPERATION.
4. LIGHT POLE SHALL BE U/L LISTED.
5. ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO ALL BOLTED AREAS DURING INSTALLATION.
6. REFER TO ALGONQUIN MUNICIPAL CODE CHAPTER 22.06 FOR ILLUMINANCE AND LUMINANCE VALUES OR AS APPROVED BY THE VILLAGE ENGINEER FOR ROADWAYS.



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VILLAGE OF ALGONQUIN STANDARD CONSTRUCTION DETAILS HISTORIC LIGHT STANDARD & LUMINAIRE POLE 1

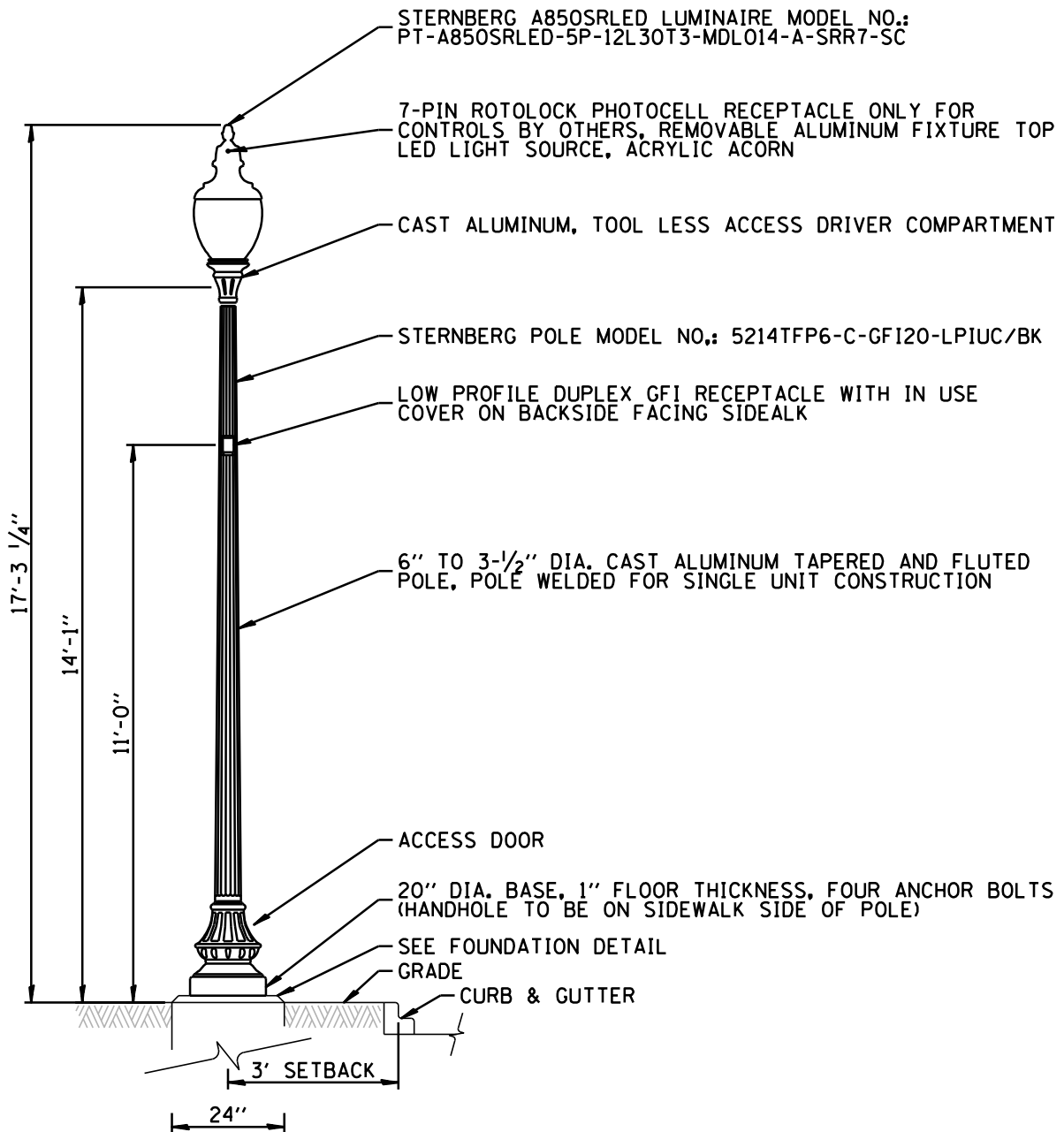
DRAWN:	JMZ	SHEET 85 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 19
REV 2:		
REV 3:		



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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
HISTORIC LIGHT STANDARD & LUMINAIRE POLE 2

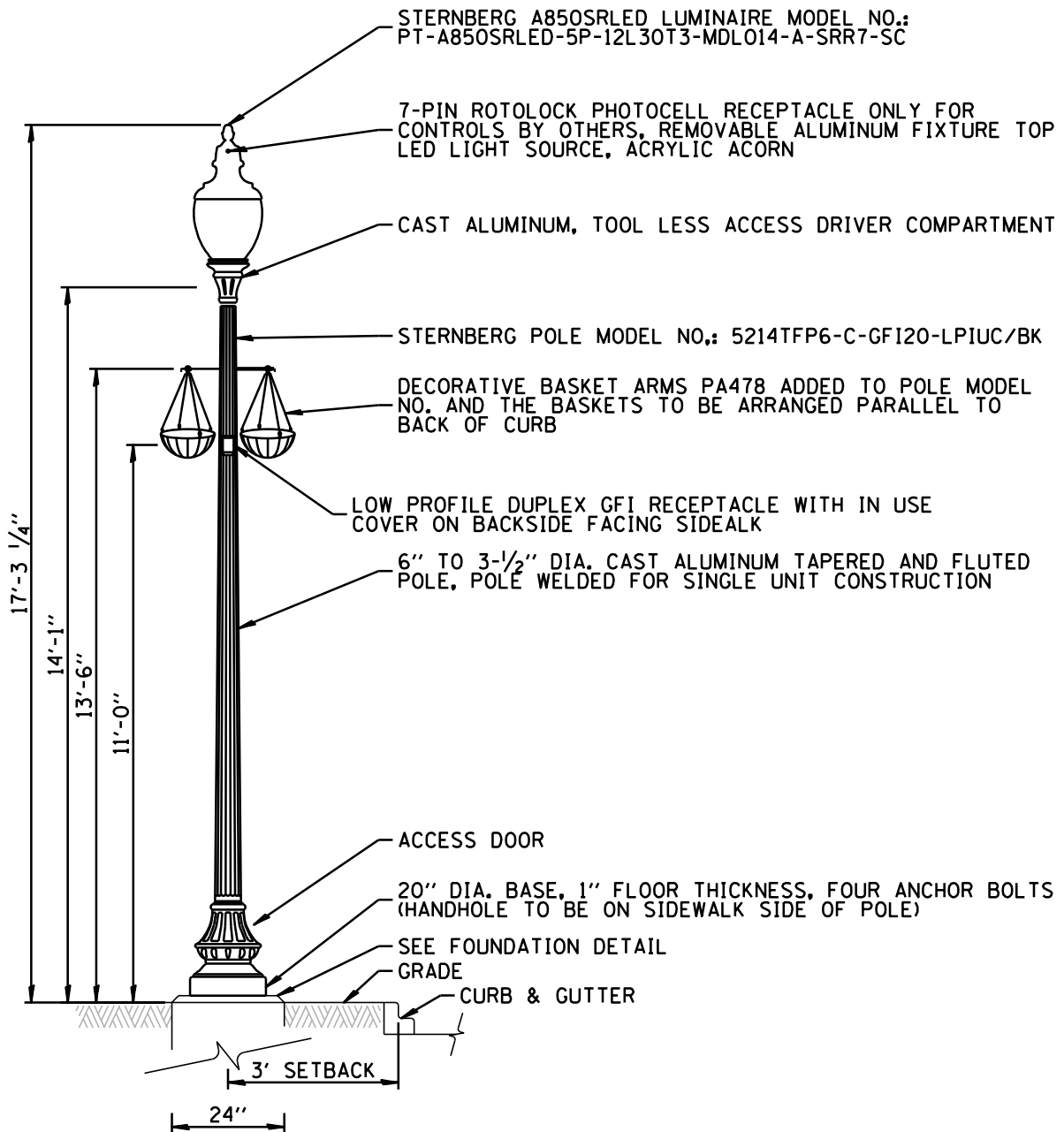
DRAWN:	JMZ	SHEET 86 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 20
REV 2:		
REV 3:		



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STANDARD CONSTRUCTION DETAILS
HISTORIC LIGHT STANDARD & LUMINAIRE POLE 3

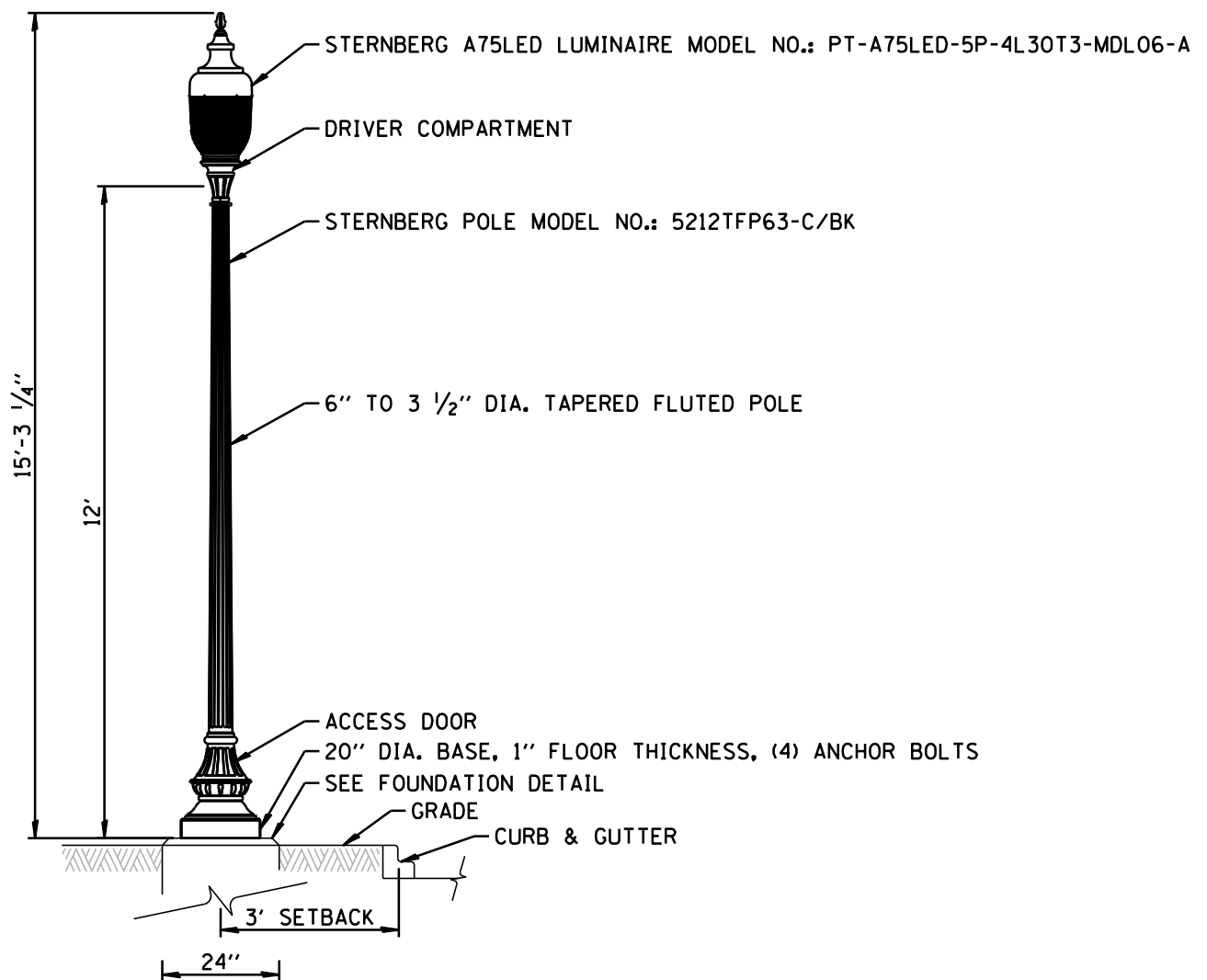
DRAWN:	JMZ	SHEET 87 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 21
REV 2:		
REV 3:		



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STANDARD CONSTRUCTION DETAILS
HISTORIC LIGHT STANDARD & LUMINAIRE POLE 4

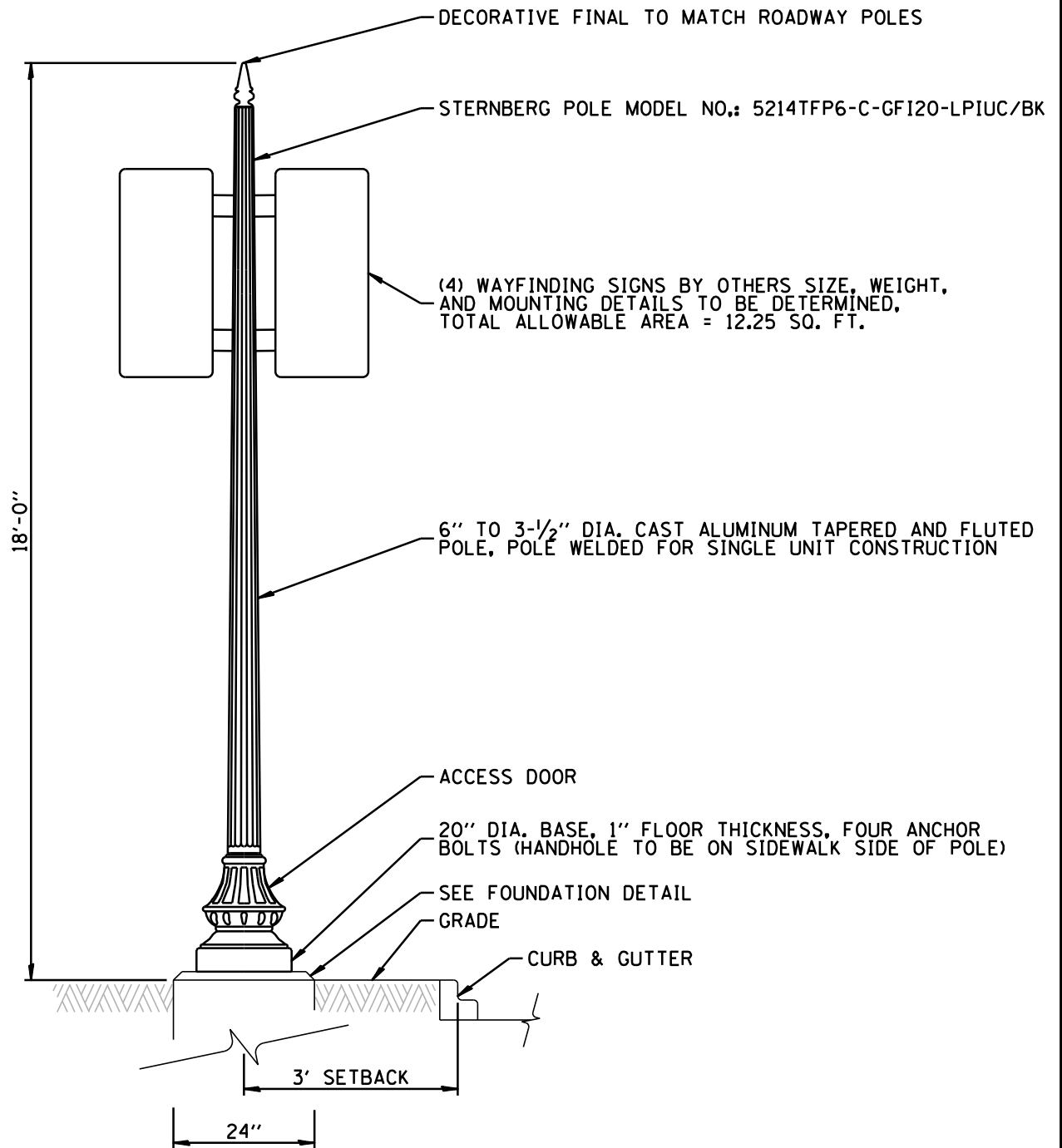
DRAWN:	JMZ	SHEET 88 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 22
REV 2:		
REV 3:		



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STANDARD CONSTRUCTION DETAILS
PARK LIGHT STANDARD & LUMINAIRE POLE

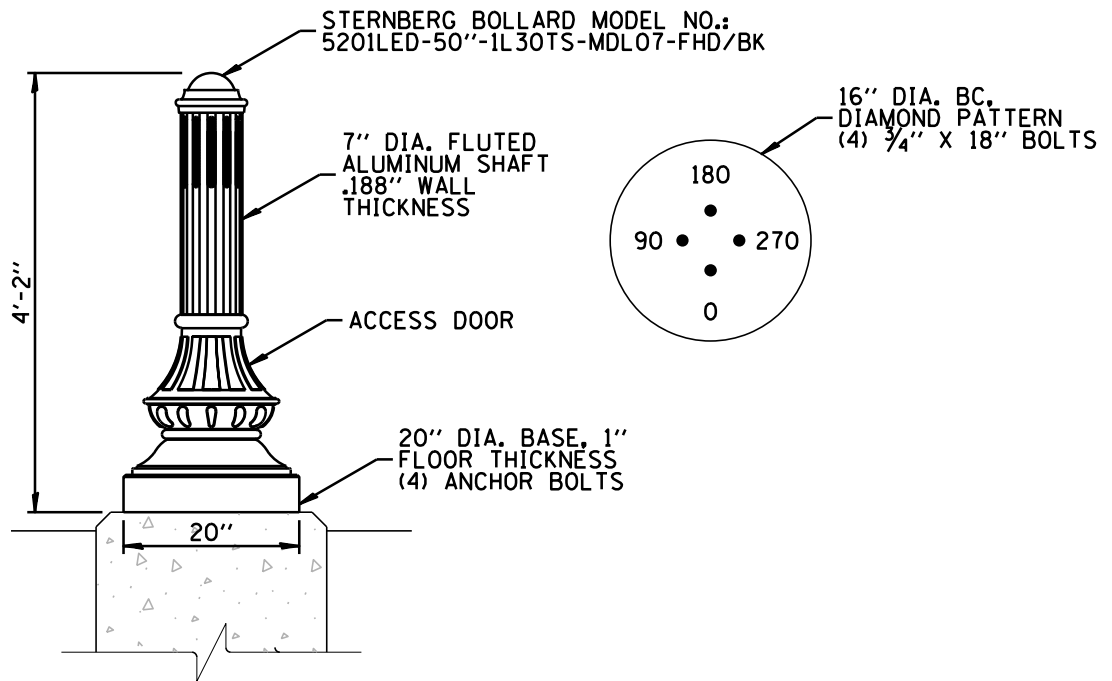
DRAWN:	JMZ	SHEET 89 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 23
REV 2:		
REV 3:		



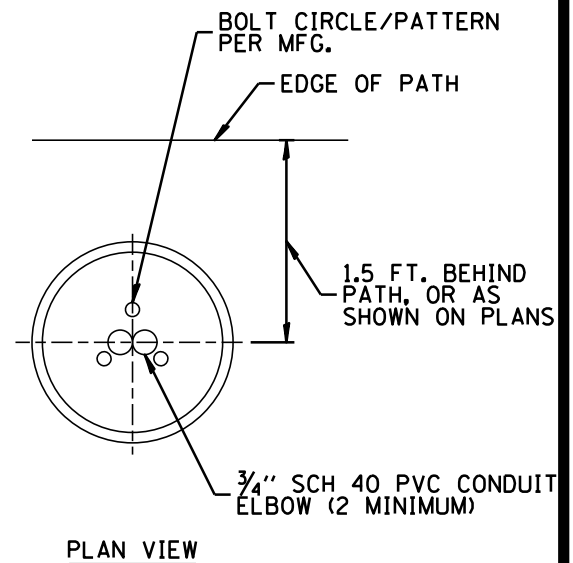
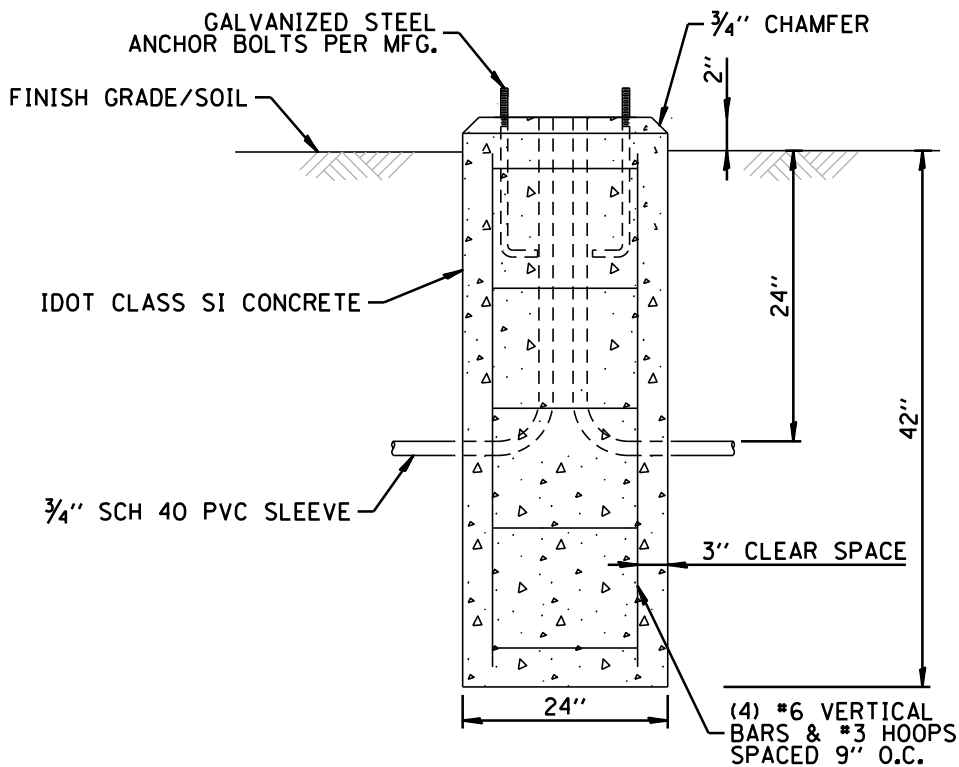
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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
HISTORIC WAYFINDING SIGN DETAIL**

DRAWN:	JMZ	SHEET 90 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 24
REV 2:		
REV 3:		



DECORATIVE BOLLARD



DECORATIVE BOLLARD FOUNDATION DETAIL

NOTES:

1. CONTRACTOR SHALL COORDINATE SIZE AND ORIENTATION OF BOLT CIRCLE WITH MANUFACTURER.
2. BOLLARD EXTERIOR AND ALL HARDWARE SHALL BE FACTORY POWDER COATED BLACK.

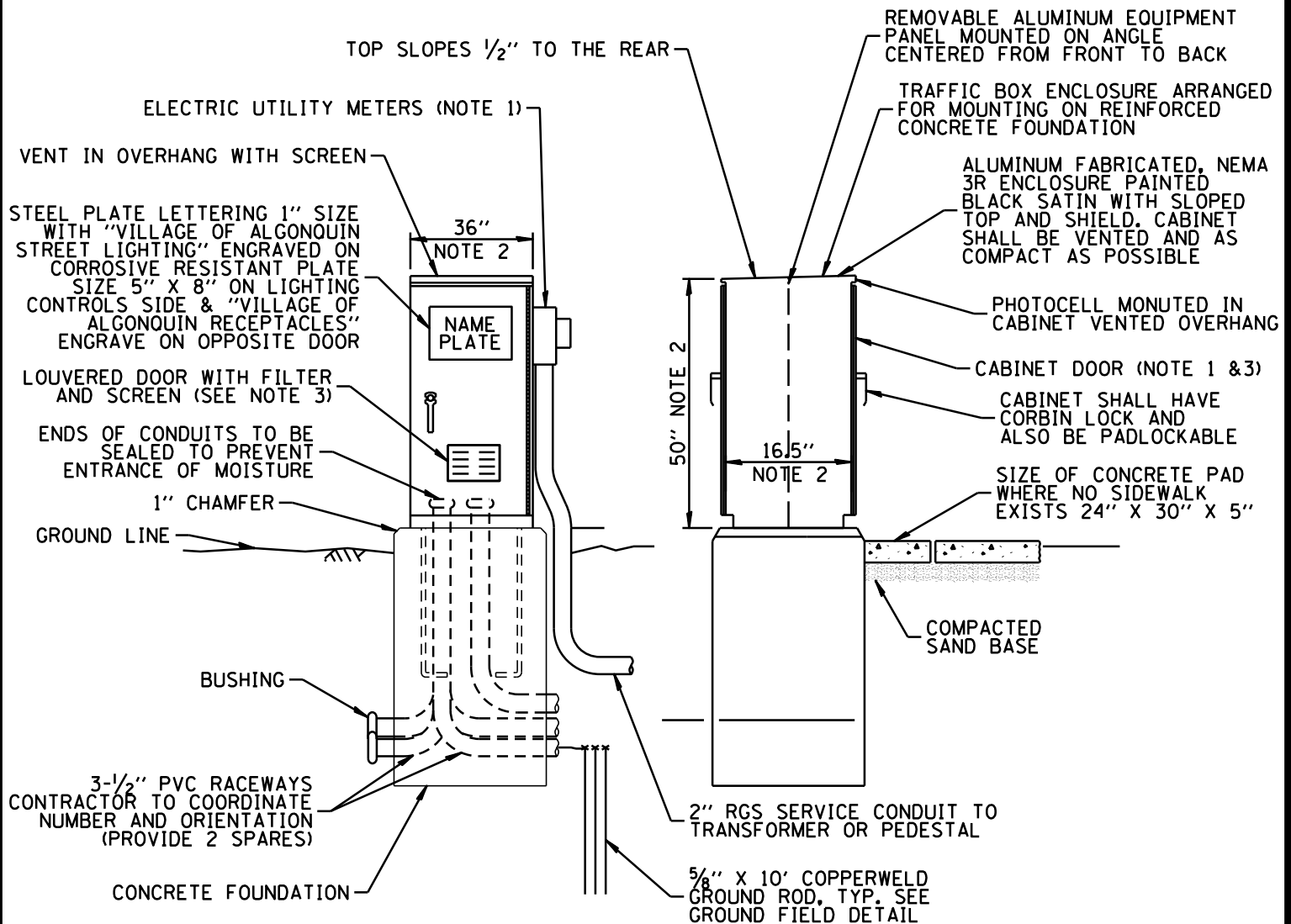


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STANDARD CONSTRUCTION DETAILS
HISTORIC BOLLARD DETAIL**

DRAWN:	JMZ	SHEET 91 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 25
REV 2:		
REV 3:		

LIGHTING CONTROLLER CABINET & FOUNDATION IS FOR HISTORIC DISTRICT AND PARKS AREA



NOTES:

1. SEE DETAILS FOR CABINET METER FITTING & DOOR ORIENTATION.
2. LIGHTING CABINET SHALL BE FACTORY PAINTED BLACK IF UTILIZED IN THE HISTORIC DISTRICT OR PARKS AREA.
3. CABINET DIMENSIONS SHOWN ARE APPROXIMATE, CABINET SHALL BE TYPE IV SIZE OR AS COMPACT AS POSSIBLE, CONTRACTOR TO COORDINATE.
4. BOTH FRONT AND REAR DOORS ARE TO BE THE SAME WITH S.S. HANDLES, THREE POINT LATCHING, PADLOCK HASPS, NEOPRENE GASKETS ALL AROUND, CONTINUOUS S.S. HINGES, AND LOUVERS WITH FILTER AND SCREEN.
5. TWO 1/8" ALUMINUM EQUIPMENT PANELS ARE MOUNTED ON 'C' CHANNELS AND CENTERED IN CABINET.
6. FRONT AND REAR DOORS HINGED ON CABINET RIGHT SIDE.
7. LIGHTING CABINET TO BE DUAL USE FOR RECEPTACLES AND LIGHTING, RECEPTACLES AND LIGHTING WILL HAVE A SEPERATE SIDE FROM EACH OTHER.



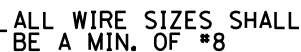
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VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
LIGHTING CONTROLLER CABINET & FOUNDATION

DRAWN:	JMZ	SHEET 92 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1.0		
REV 2.0		
REV 3.0		

LGT 26

_____	PHASE CONDUCTOR
— — — —	NEUTRAL CONDUCTOR
- - - - -	GROUND CONDUCTOR



RECEPTACLE COMPONENTS FOR LIGHTING CONTROLLER IN THE HISTORIC DISTRICT AND PARKS AREA

ITEM	SPECIFICATION	MFG./MODEL NO. OR APPROVED EQUAL
① MAIN CIRCUIT BREAKER	100 AMPERE, 2P, 240V SERVICE RATING, 10KAIC	SIEMENS NO. ED42B100
② LAMPHOLDER CIRCUIT BREAKER	20 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED41B20
③ PHOTOELECTRIC CONTROL CIRCUIT BREAKER	15 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED41B15
④ AUXILIARY RELAY	120 V OPERATED DPDT 60 HZ COIL 2 NO & 2 NC CONTACTS	MAGNECRAFT NO. 389 FXBXC1 - 120A
⑤ CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF COVER	RECEPTACLE: LEVITON NO. 8899, BOX: APPLETON NO. WSM150 COVER: APPLETON NO. WHG1
⑥ CABINET LIGHT AND BOX	120V WEATHERPROOF LAMPHOLDER MOUNTED IN A CAST ALUMINUM BOX & EXT. GRADE 100W LAMP	LIGHT & BOX: RAB NO. VX100DG
⑦ CONTACTOR	100 AMPERE, 2 POLE, 120 V COIL, MECH HELD	SQUARE D NO. 8903 S00 10 V02
⑧ BRANCH LINE CIRCUIT BREAKERS	20 AMPERE, 1P, 120V RATING, 10KAIC, GFCI	CUTLER/HAMMER NO. EHD1050
⑨ POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED	MARATHON
⑩ SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2	N/A
⑪ LAMPHOLDER WIRE	2-600V XLP NO. 12	N/A
⑫ CONTROL WIRE	2-600V XLP NO. 12	N/A
⑬ TIMECLOCK	2-POLE SINGLE THROW, 20 AMPS PER POLE	TORK ASTRONOMIC TIME SWITCH DZS200BP
⑭ PHOTOELECTRIC CONTROL WIRE	3-600V XLP NO. 12	N/A
⑮ DOOR SWITCH	20A/120V, DOOR MOUNTED SNAP ACTION TYPE PLUNGER SWITCH	OMRON NO. A-20G0-K
⑯ HAND-AUTO-OFF CONTROL SWITCH	20A, 3 POS. MTD IN CAST ALUM. ENCLOSURE	SQUARE D NO. 9001 KYK 111
⑰ PHOTOCCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC	FISHER PIERCE NO. FPFA-105M
⑱ BACK PANEL	1/2" THICK SOLID PHENOLIC LAMINATE	ARBORON

NOTES:

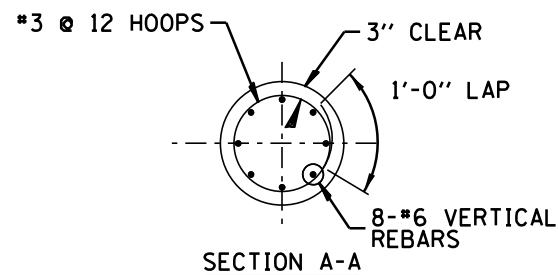
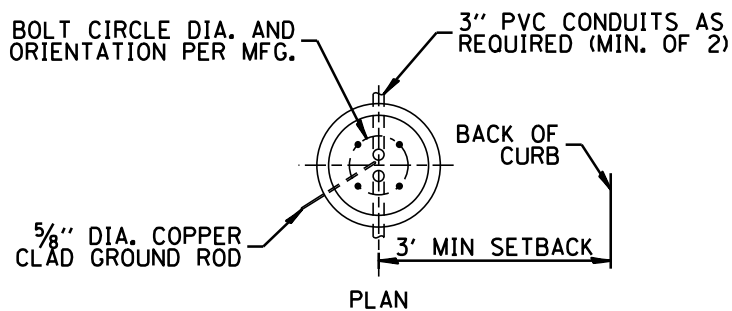
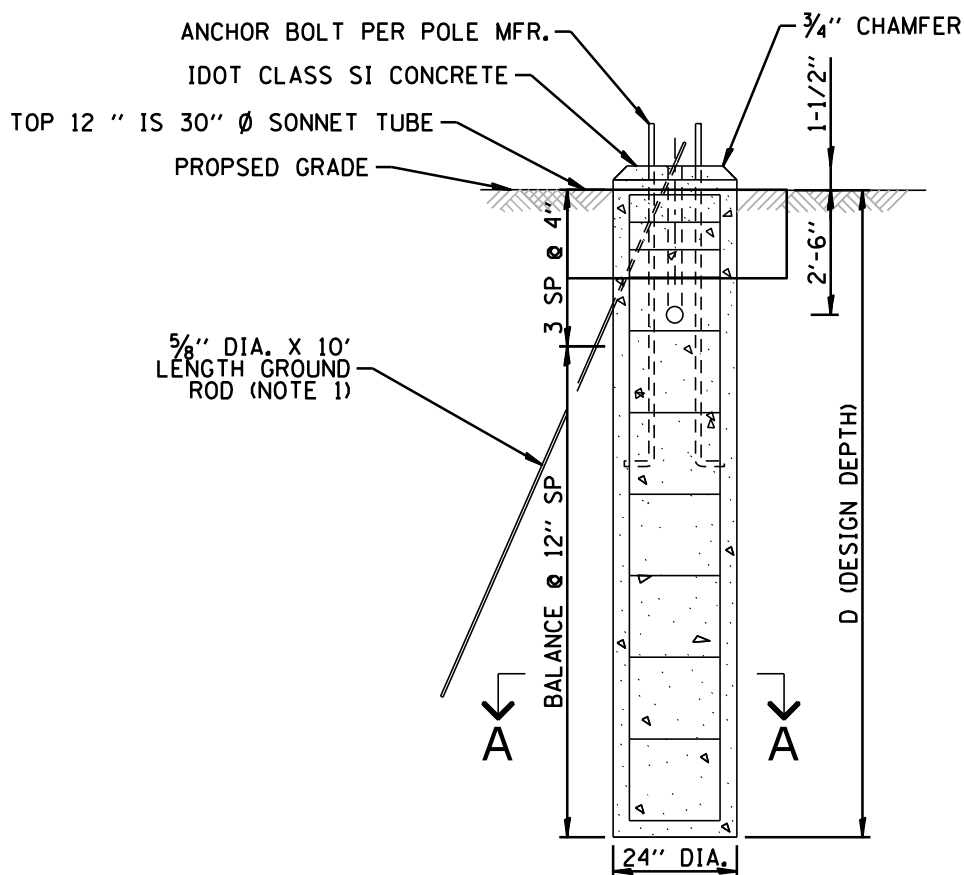
- ALL ITEMS LISTED IN LIGHTING CONTROLLER COMPONENT SCHEDULE SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR "LIGHTING CONTROLLER" INCLUDING CABINET AND FOUNDATION.
- THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "ENCLOSED INDUSTRIAL CONTROL PANEL" UNDER UL508A.
- CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED".



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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
RECEPTACLE COMPONENT SCHEDULE**

DRAWN:	JMZ	SHEET 94 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 28
REV 2:		
REV 3:		



SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION
SOFT CLAY ($Q_u=0.375$ TON/SF)	13'-0"
MEDIUM CLAY ($Q_u=0.75$ TON/SF)	9'-6"
STIFF CLAY ($Q_u=1.50$ TON/SF)	7'-0"
LOOSE SAND ($\phi=34^\circ$)	9'-0"
MEDIUM SAND ($\phi=37.5^\circ$)	8'-3"
DENSE SAND ($\phi=40^\circ$)	7'-9"

NOTES:

1. GROUND ROD SHALL BE CAST INTO CONCRETE FOUNDATION WITH 8 FEET IN CONTACT WITH SOIL.
2. FOUNDATIONS SHALL BE VIBRATED IN ACCORDANCE WITH IDOT STANDARD PRACTICES.
3. THIS CONCRETE FOUNDATION DETAIL IS TO ONLY BE USED FOR ROADWAY LIGHT POLES IN THE HISTORIC DISTRICT AND PARKS AREA.



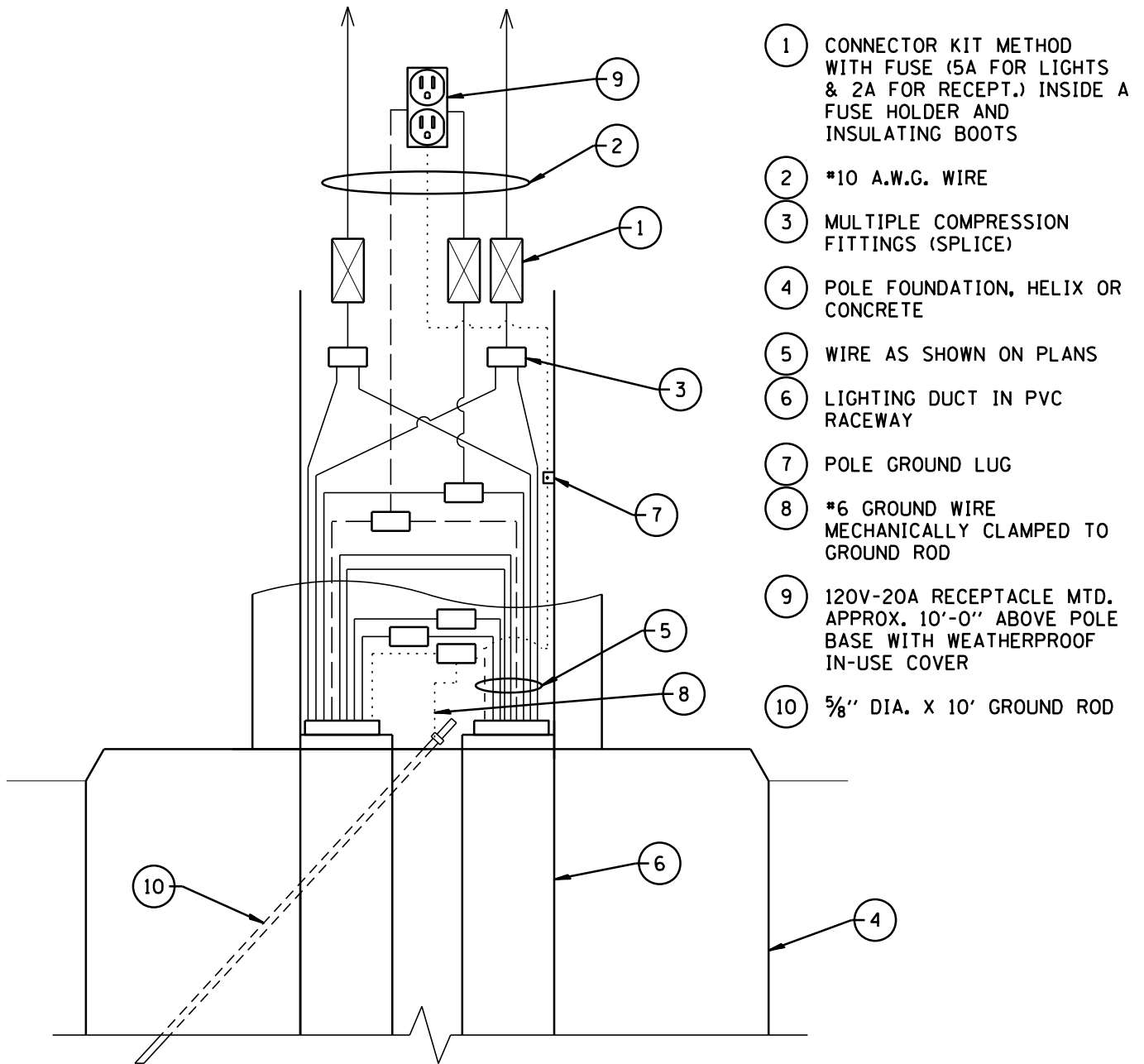
THE VILLAGE OF
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**VILLAGE OF ALGONQUIN
STANDARD CONSTRUCTION DETAILS
ROADWAY CONCRETE FOUNDATION DETAIL**

DRAWN:	JMZ	SHEET 95 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 29
REV 2:		
REV 3:		

_____ PHASE CONDUCTOR
 - - - - - GROUND CONDUCTOR
 - - - - - NEUTRAL CONDUCTOR

TO 240 VOLT ROADWAY LUMINAIRE



- 1 CONNECTOR KIT METHOD WITH FUSE (5A FOR LIGHTS & 2A FOR RECEPT.) INSIDE A FUSE HOLDER AND INSULATING BOOTS
- 2 #10 A.W.G. WIRE
- 3 MULTIPLE COMPRESSION FITTINGS (SPLICE)
- 4 POLE FOUNDATION, HELIX OR CONCRETE
- 5 WIRE AS SHOWN ON PLANS
- 6 LIGHTING DUCT IN PVC RACEWAY
- 7 POLE GROUND LUG
- 8 #6 GROUND WIRE MECHANICALLY CLAMPED TO GROUND ROD
- 9 120V-20A RECEPTACLE MTD. APPROX. 10'-0" ABOVE POLE BASE WITH WEATHERPROOF IN-USE COVER
- 10 5/8" DIA. X 10' GROUND ROD



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VILLAGE OF ALGONQUIN
 STANDARD CONSTRUCTION DETAILS
 RECEPTACLE HANDHOLE WIRING DIAGRAM

DRAWN:	JMZ	SHEET 96 OF 96
APPROVED:	GAH	SCALE: N.T.S.
DATE:	1/21/2026	DRAWING NO.
REV 1:		LGT 30
REV 2:		
REV 3:		