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Responsive partner. Exceptional outcomes.

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PROJECT

STANDARD PLATES

SHEET TITLE

DETAIL INDEX

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	GEN-1A	

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SHEET  
TITLE

**DETAIL INDEX**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	GEN -1B	

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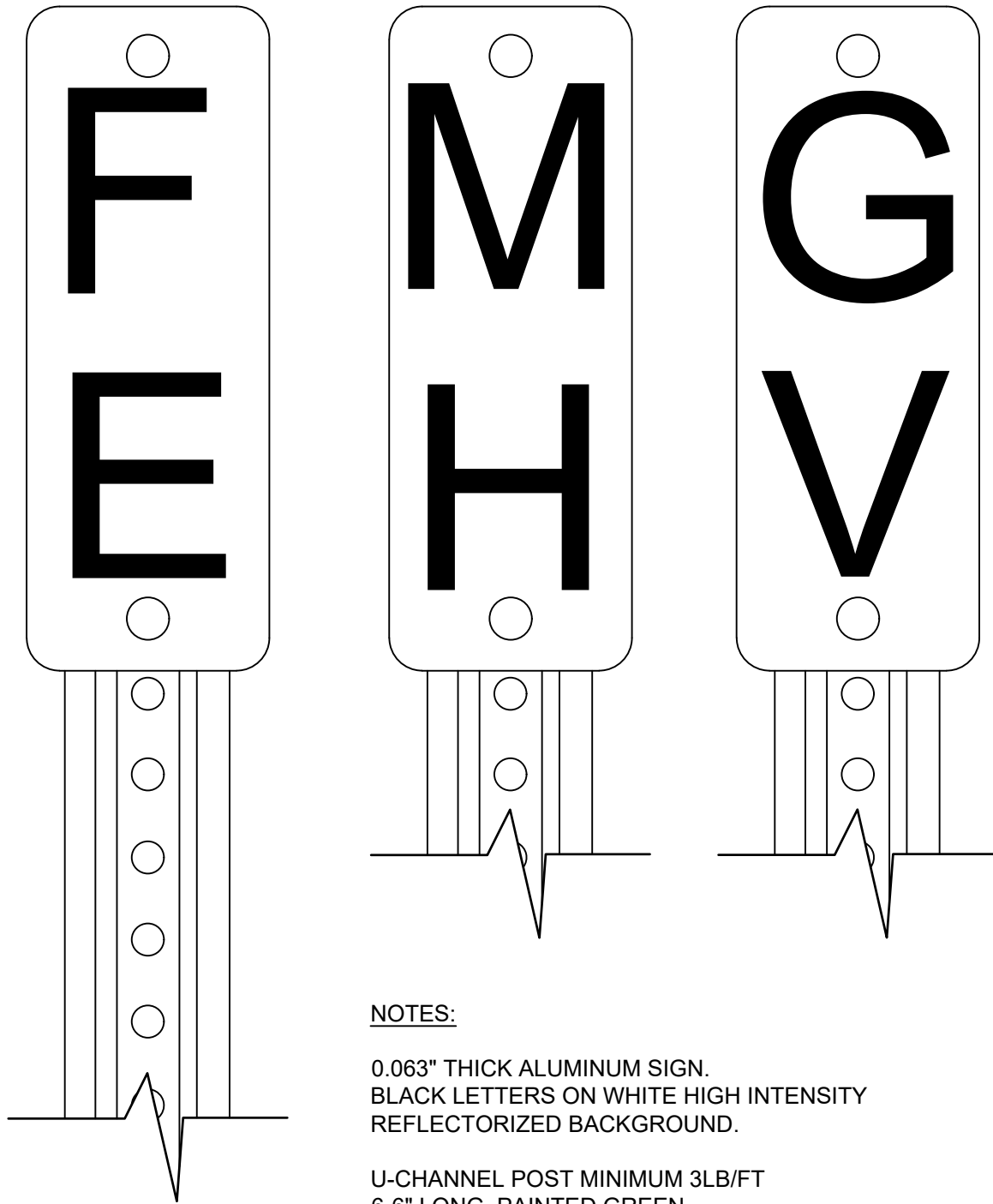
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PROJECT STANDARD PLATES

SHEET TITLE  
**DETAIL INDEX**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	GEN - 1C	



**NOTES:**

0.063" THICK ALUMINUM SIGN.  
 BLACK LETTERS ON WHITE HIGH INTENSITY  
 REFLECTORIZED BACKGROUND.

U-CHANNEL POST MINIMUM 3LB/FT  
 6-6" LONG, PAINTED GREEN.

PLACED AS DIRECTED BY CITY ENGINEER.

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SHEET TITLE **STRUCTURAL MARKER SIGNS**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	GEN - 2	

# Larch Ln

SINGLE-FACED STREET SIGN PANELS WITH SPACING  
 INSTALL SIGNS ON SAME POST AS STOP WHERE APPLICABLE

2" X 2" X 12 GAUGE SQUARE TELESPAR GALVANIZED SIGN POST (2.4 lbs/ft)

SURFACE MOUNTED ANCHOR BASE  
 1/2" X 4" CONCRETE ANCHOR BOLTS  
 KLEEN BREAK MODEL 425 OR APPROVED EQUAL

FINISHED GRADE

6" CONCRETE WALK

6" C U/C & L/C HIGH INTENSITY PRISMATIC WHITE COPY AND 3/8" BORDER ON HIGH INTENSITY PRISMATIC GREEN BACKGROUND

1-1/2" RADIUS CORNERS

2 EACH 3/8" HOLES ON 7" CENTERS

3/8" HOLE EACH END IN 1" FROM EDGE TO CENTER OF HOLE

SINGLE FACED

MAXIMUM LENGTH OF 42"

- 24"x9" 500-01396
- 30"x9" 500-01573
- 36"x9" 500-01750
- 42"x9" 500-01923

**NOTE:**

1. INSTALLATION SHALL BE IN COMPLIANCE WITH THE LATEST VERSION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. FOR STREETS WITH SPEED LIMIT GREATER THAN 30 MPH, A 0.75' SIGN WITH 0.5' LETTERS IS REQUIRED.
3. TYPICALLY INSTALLED AT SOUTHWEST CORNER OF INTERSECTION. ALL EQUALS MUST BE APPROVED BY CITY ENGINEER BEFORE INSTALLATION.
4. SIGN SHALL BE CONSTRUCTED OF ALUMINUM PER MNDOT 3352.2A1.



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PROJECT STANDARD PLATES

SHEET TITLE  
**STREET SIGN DETAIL  
 CONCRETE**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	GEN - 3	

# Larch Ln

SINGLE-FACED STREET SIGN PANELS WITH SPACERS  
 INSTALL SIGNS ON SAME POST AS STOP SIGN WHERE APPLICABLE

2" X 2" X 12 GAUGE SQUARE TELES PAR GALVANIZED SIGN POST (2.4 lbs/ft)

6" C U/C & L/C HIGH INTENSITY PRISMATIC WHITE COPY AND 3/8" BORDER ON HIGH INTENSITY PRISMATIC GREEN BACKGROUND

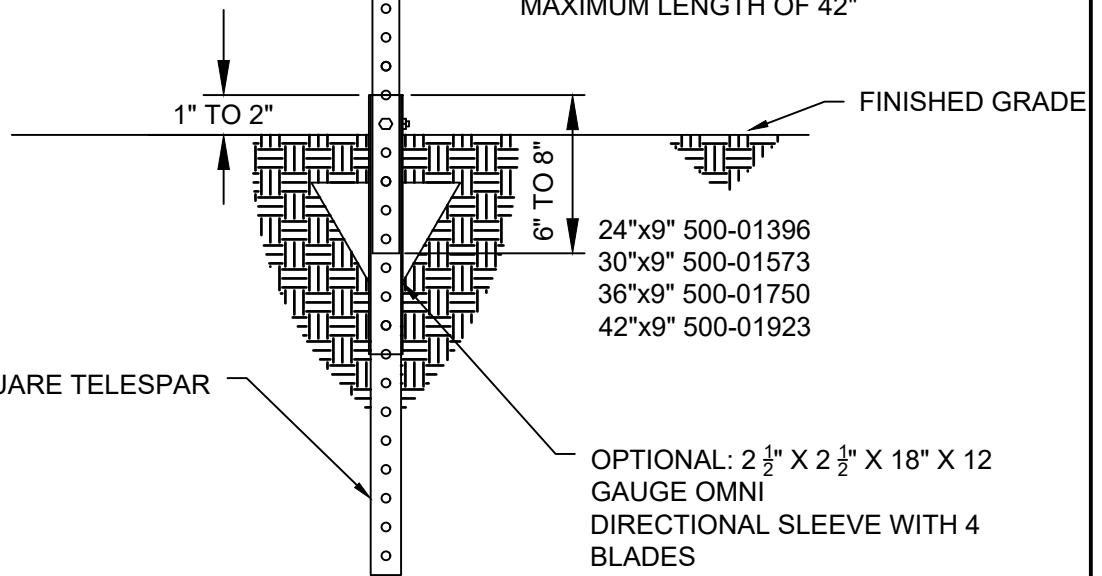
1-1/2" RADIUS CORNERS

2 EACH 3/8" HOLES ON 7" CENTERS

3/8" HOLE EACH END IN 1" FROM EDGE TO CENTER OF HOLE

SINGLE FACED

MAXIMUM LENGTH OF 42"



2 1/4" X 2 1/4" X 12 GAUGE SQUARE TELES PAR 4' LONG SIGN ANCHOR

OPTIONAL: 2 1/2" X 2 1/2" X 18" X 12 GAUGE OMNI DIRECTIONAL SLEEVE WITH 4 BLADES

**NOTE:**

1. INSTALLATION SHALL BE IN COMPLIANCE WITH THE LATEST VERSION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. FOR STREETS WITH SPEED LIMIT GREATER THAN 30 MPH, A 0.75' SIGN WITH 0.5' LETTERS IS REQUIRED.
3. TYPICALLY INSTALLED AT SOUTHWEST CORNER OF INTERSECTION. ALL EQUALS MUST BE APPROVED BY CITY ENGINEER BEFORE INSTALLATION.
4. SIGN SHALL BE CONSTRUCTED OF ALUMINUM PER MNDOT 3352.2A1.



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PROJECT

STANDARD PLATES

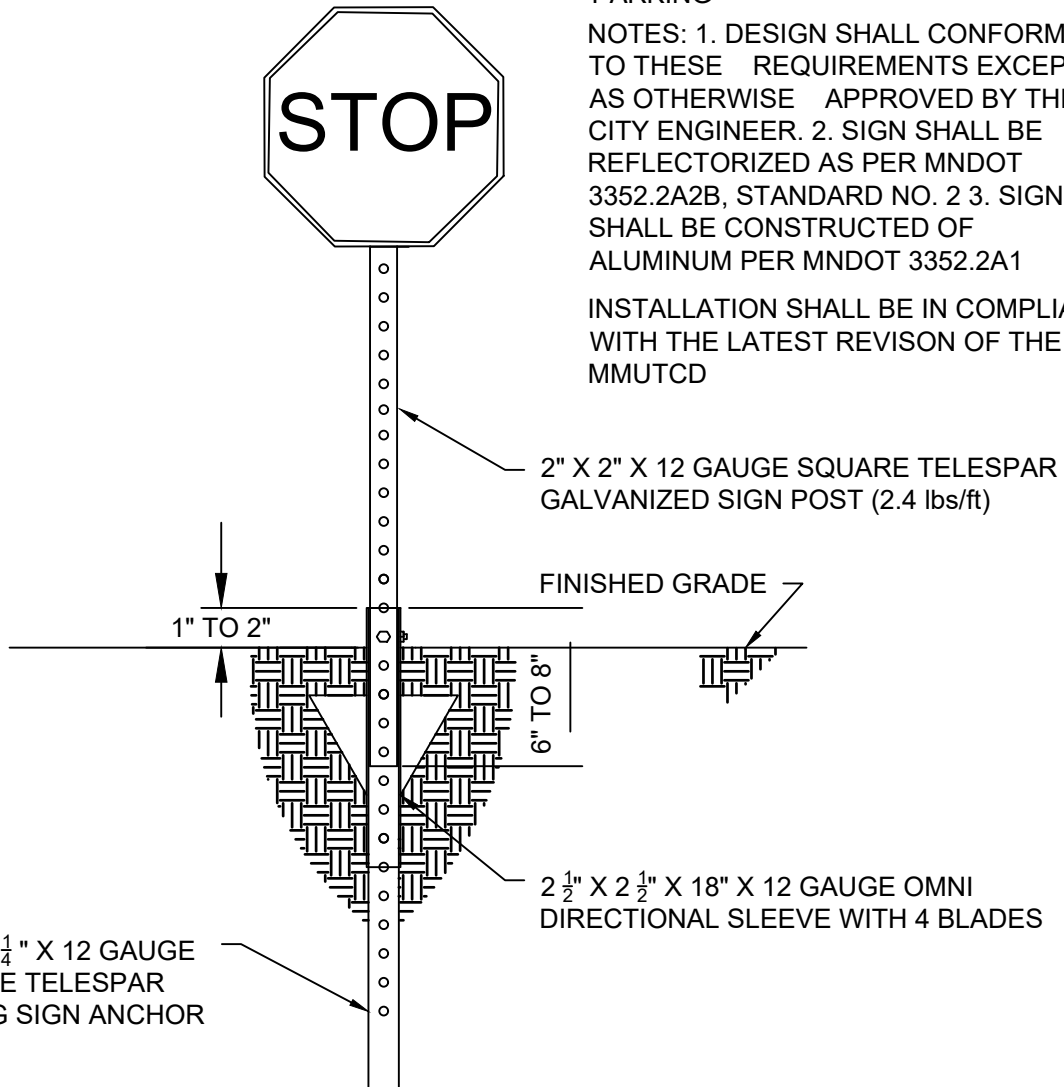
SHEET TITLE

STREET SIGN DETAIL  
 BOULEVARD

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	GEN - 4	

SIGN NAME	DESIGNATION	SIZE
STOP	R1-1	30"X30"
YIELD	R1-2	36"X36"X36"
SPEED	R2-1	24"X30"
LIMIT NO	N/A	12"X18"
PARKING		

NOTES: 1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER. 2. SIGN SHALL BE REFLECTORIZED AS PER MNDOT 3352.2A2B, STANDARD NO. 2 3. SIGN SHALL BE CONSTRUCTED OF ALUMINUM PER MNDOT 3352.2A1  
 INSTALLATION SHALL BE IN COMPLIANCE WITH THE LATEST REVISION OF THE MMUTCD



2 1/4" X 2 1/4" X 12 GAUGE SQUARE TELESPAR 4' LONG SIGN ANCHOR

2" X 2" X 12 GAUGE SQUARE TELESPAR GALVANIZED SIGN POST (2.4 lbs/ft)

2 1/2" X 2 1/2" X 18" X 12 GAUGE OMNI DIRECTIONAL SLEEVE WITH 4 BLADES

**NOTE:**

1. INSTALLATION SHALL BE IN COMPLIANCE WITH THE LATEST VERSION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. FOR STREETS WITH SPEED LIMIT GREATER THAN 30 MPH, A 0.75' SIGN WITH 0.5' LETTERS IS REQUIRED.
3. TYPICALLY INSTALLED AT SOUTHWEST CORNER OF INTERSECTION. ALL EQUALS MUST BE APPROVED BY CITY ENGINEER BEFORE INSTALLATION.
4. SIGN SHALL BE CONSTRUCTED OF ALUMINUM PER MNDOT 3352.2A1.
5. WHEN INSTALLED IN CONCRETE USE SURFACE MOUNTED ANCHOR BASE 1/2"x4" CONCRETE ANCHOR BOLTS KLEEN BREAK MODEL 425 OR APPROVED EQUAL. (SEE DETAIL GEN-3)



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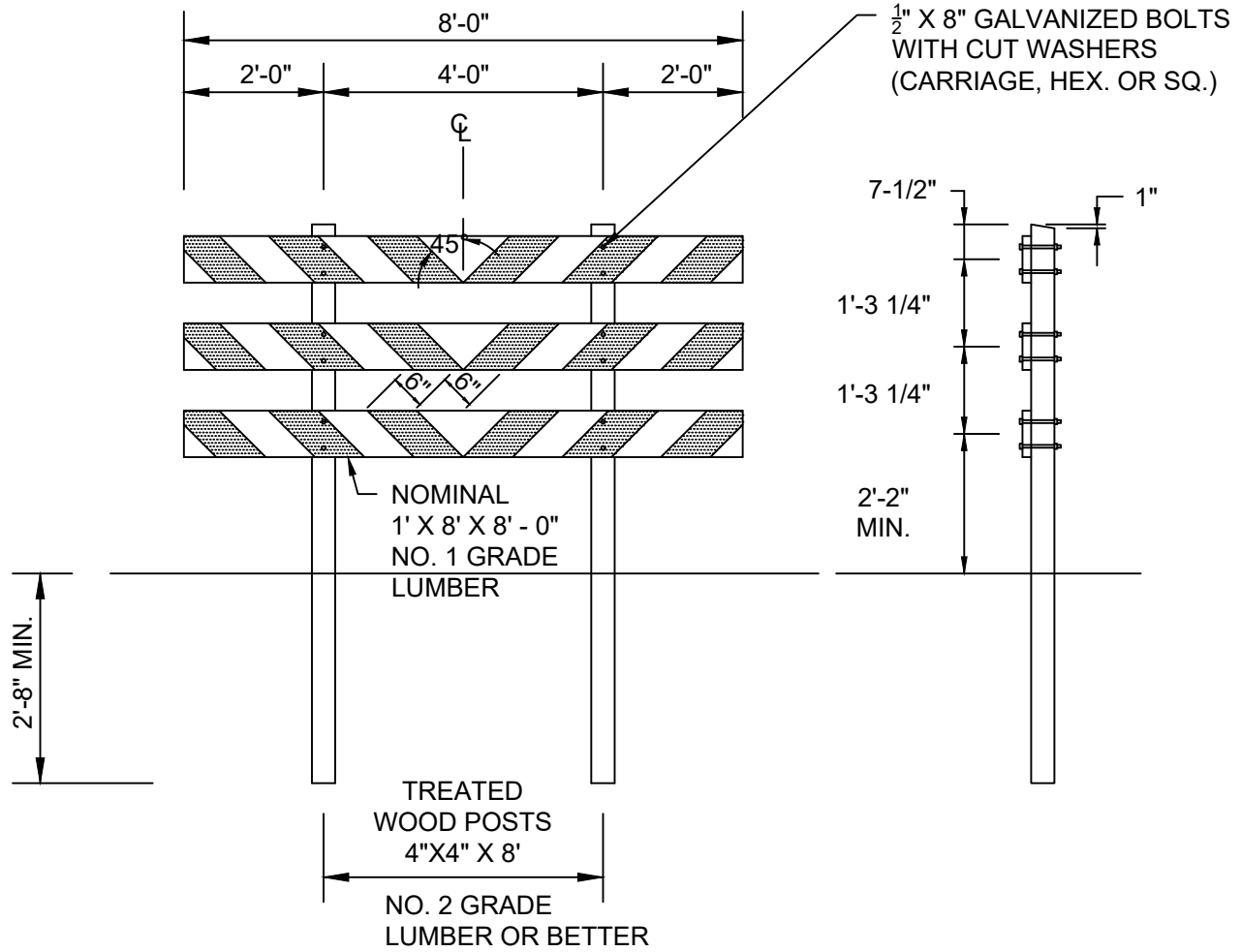
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PROJECT STANDARD PLATES

SHEET TITLE REGULATORY SIGN

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	GEN - 5	



**NOTE**

THE BARRICADE BOARD FACE SURFACES SHALL BE FULLY REFLECTORIZED IN ALTERNATE SILVER-WHITE AND RED STRIPING, USING A REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF SPEC. 3352.2A2B, STANDARD NO. 2.

PRIOR TO INSTALLING THE REFLECTIVE SHEETING, THE BARRICADE BOARDS SHALL BE GIVEN A COMPLETE COATING OF WHITE WOOD PRIMER PAINT FOLLOWED BY A SECOND COAT OF WHITE EXTERIOR APPLIED ONLY TO THE SURFACES NOT COVERED WITH REFLECTIVE SHEETING.

THE BARRICADE BOARDS SHALL BE COMPLETELY PAINTED AND REFLECTORIZED SHEETING APPLIED BEFORE BEING INSTALLED ON THE POSTS.

THE PLACEMENT OF THE BARRICADE SHALL BE 10'-0" FROM THE END OF THE BITUMINOUS ROAD WITH THE BARRICADE CENTERED ON THE ROADWAY FACING THE FLOW OF TRAFFIC.



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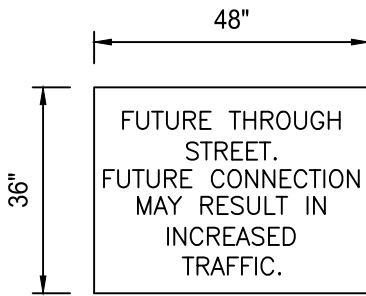
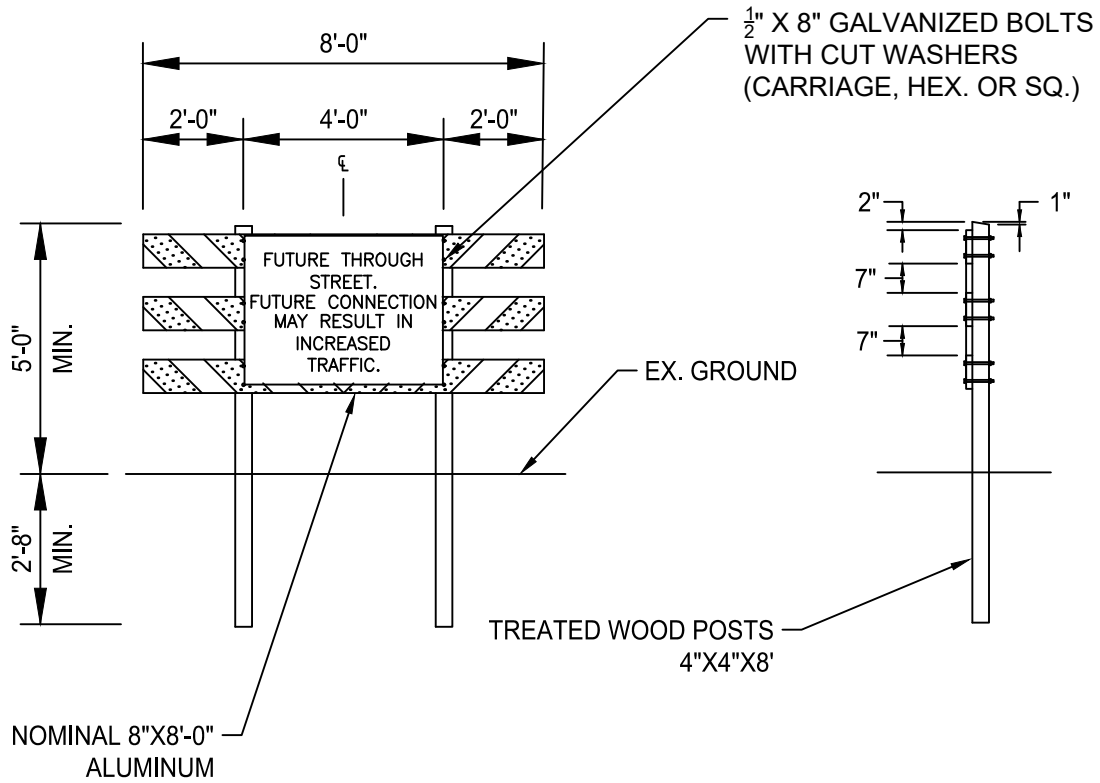
PROJECT STANDARD PLATES

SHEET TITLE PERMANENT BARRICADE

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	GEN - 6	



NOTE: BARRICADE AS PER CORCORAN  
STANDARD DETAIL PLATE GEN-6



NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. SIGN SHALL BE REFLECTORIZED AS PER MNDOT 3352.2A2A
3. SIGN SHALL BE CONSTRUCTED OF ALUMINUM PER MNDOT 352.2A1A, BLACK ON WHITE WITH 4" LETTERS.

**WENCK**  
ASSOCIATES

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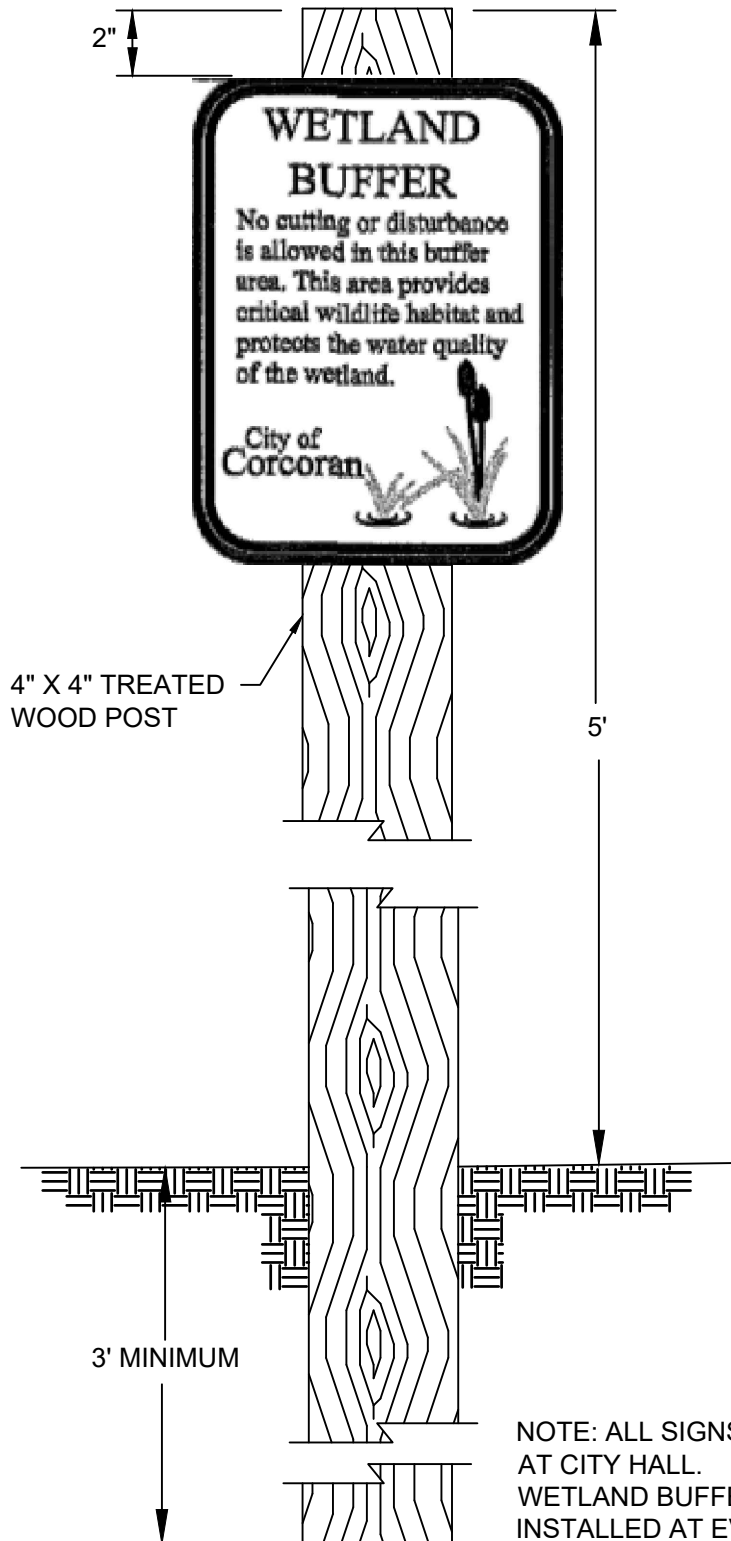
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PROJECT STANDARD PLATES

SHEET TITLE  
**FUTURE THROUGH STREET SIGN**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2018	NPW	RWS	RWS	SCALE	2294-00	GEN - 7	



NOTE: ALL SIGNS SHALL BE OBTAINED AT CITY HALL.  
 WETLAND BUFFER POSTS TO BE INSTALLED AT EVERY PROPERTY CORNER AND AT ANGLE POINTS OF WETLAND BUFFER



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PROJECT STANDARD PLATES

SHEET TITLE **WETLAND BUFFER SIGN**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2019	SKH	RWS	RWS	SCALE	2294-00	GEN - 8	

**MANDREL SIZE**

SDR 35 (DEPTH<16')				
PIPE SIZE (IN)	DEFLECTION TEST		AIR TEST	
	BASE I.D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)
4	3.874	3.68	4	2
6	5.742	5.45	4	3
8	7.665	7.28	4	4
10	9.563	9.08	4	5
12	11.361	10.79	4	6
15	13.898	13.2	4	7.5

PS 46 (DEPTH<16')				
PIPE SIZE (IN)	DEFLECTION TEST		AIR TEST	
	BASE I.D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)
18	16.976	16.13	4	9
21	20.004	19	4	10.5
24	22.48	21.36	4	12
27	25.327	24.06	4	13.5

SDR 26 (16'<DEPTH<25')				
PIPE SIZE (IN)	DEFLECTION TEST		AIR TEST	
	BASE I.D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)
6	5.612	5.33	4	3
8	7.488	7.12	4	4
10	9.342	8.87	4	5
12	11.102	10.54	4	6
15	13.575	12.9	4	7.5

PS 115 (DEPTH<16')				
PIPE SIZE (IN)	DEFLECTION TEST		AIR TEST	
	BASE I.D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)
18	16.586	15.76	4	9
21	19.545	18.57	4	10.5
24	21.964	20.87	4	12
27	24.744	23.51	4	13.5
30	28.763	27.32	4	15

C-900 DR 18 (25'<DEPTH)				
PIPE SIZE (IN)	DEFLECTION TEST		AIR TEST	
	BASE I.D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)
6	5.934	5.49	4	3
8	7.754	7.37	4	4
10	9.487	9.01	4	5
12	11.265	10.7	4	6
14	13.05	12.4	4	7
16	14.831	14.09	4	8
18	16.609	15.78	4	9
20	18.386	17.47	4	10
24	21.94	20.84	4	12

**GENERAL TESTING NOTES:**

1. PIPE MATERIAL AND TESTING REQUIREMENTS MAY CHANGE DEPENDING ON SOIL CONDITIONS AND OTHER FACTORS.
2. ALL TESTING TO OCCUR BEFORE CONSTRUCTION OF WEAR COURSE PAVEMENT.
3. CITY TO BE NOTIFIED MINIMUM 48 HOURS BEFORE ANY UTILITY TESTING.

**SANITARY SEWER TESTING NOTES:**



1. A MINIMUM WAITING TIME PERIOD OF 30 DAYS AFTER INSTALLATION IS REQUIRED BEFORE DEFLECTION TEST MAY BE PERFORMED.
2. TRACER WIRE TEST TO BE PERFORMED ON ALL SANITARY SEWER AND SANITARY SEWER SERVICES BY METROTECH OR APPROVED EQUAL.
3. AIR TEST WILL BE PERFORMED AT A PRESSURE OF 4.0 PSIG GREATER THAN THE AVERAGE BACKPRESSURE OF ANY GROUND WATER PRESENT.
4. \*IF GROUNDWATER IS PRESENT, FOR EVERY FOOT OF GROUND WATER ABOVE THE PIPE SPRING LINE, INCREASE THE GAGE TEST PRESSURE BY 0.43 PSI (TO COMPENSATE FOR WATER BACK PRESSURE).
5. THE SEWER LINE WHICH IS BEING TESTED WILL BE ACCEPTED AS PASSING THE AIR TEST IF THE PRESSURE DOES NOT DROP MORE THAN 0.0 PSI IN LESS TIME THAN 30 SECONDS PER INCH IN DIAMETER OF THE PIPE BEING TESTED.
6. TELEVISION SHALL BE PERFORMED ON ALL NEWLY INSTALLED GRAVITY SEWER FOLLOWING ALL OTHER SUCCESSFUL TESTING.
7. SANITARY SEWER TO BE JETTED PRIOR TO TELEVISION.

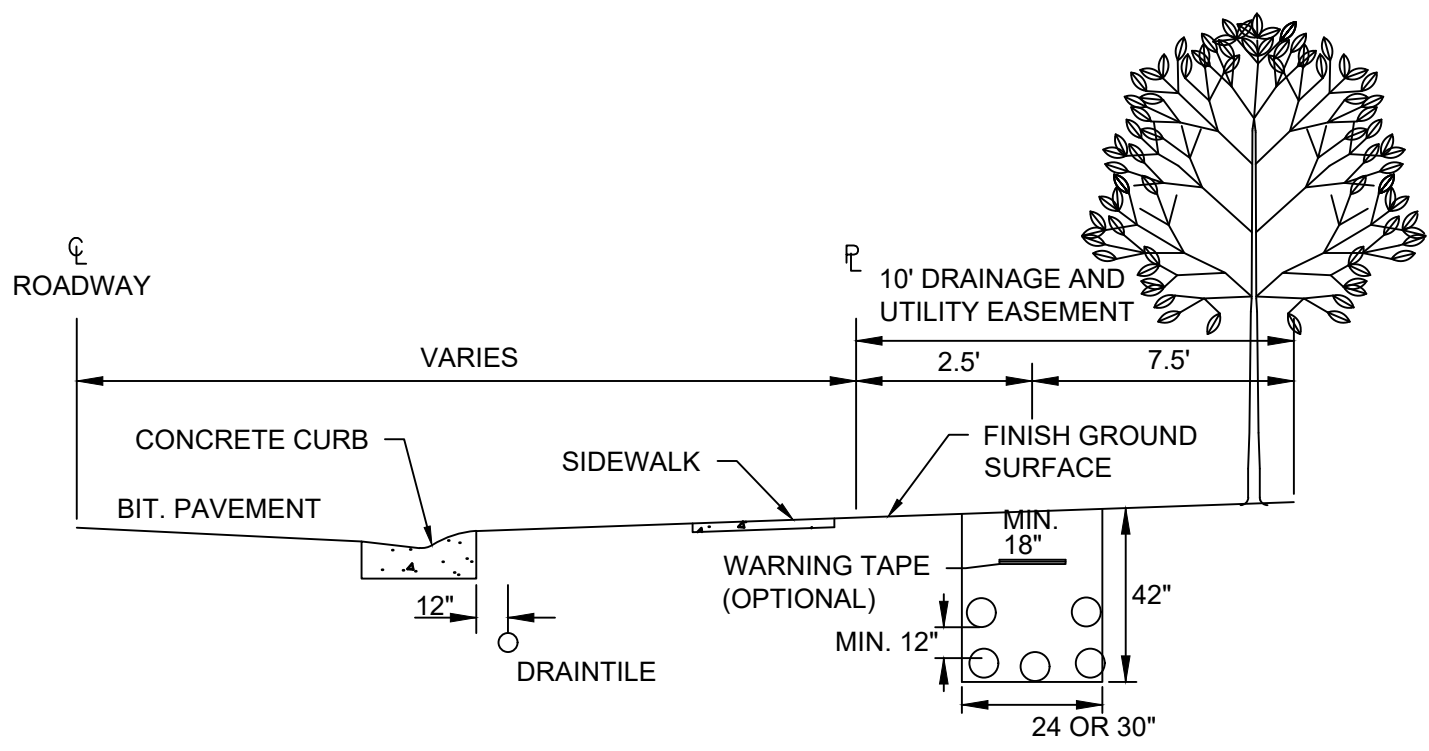
**WATERMAIN TESTING NOTES:**

1. WATERMAIN TESTING TO INCLUDE ALL CURB STOPS AND HYDRANT LEADS.
2. HYDROSTATIC PRESSURE TEST PROCEDURE AS FOLLOWS:
  - 2.1. PUMP SYSTEM TO MINIMUM 150 PSI.
  - 2.2. THE WATERMAIN SYSTEM WILL BE ACCEPTED AS PASSING IF THE PRESSURE HAS NO DROP IN PRESSURE IN 2 HOURS.
  - 2.3. ALL BUTTERFLY VALVES TO BE INDIVIDUALLY HYDROSTATICALLY TESTED AGAINST BOTH SIDES OF THE VALVE FOR A MINIMUM OF 30 MINUTES WITH NO DROP IN PRESSURE.
3. BACTERIA TEST (MINIMUM 2 SETS)
  - 3.1. 1 SET AFTER 1ST FLUSH, THEN 1 SET FOR EVERY 1200 LF.
  - 3.2. 2ND TEST TO BE PERFORMED 24 HOURS AFTER 1ST TEST HAS DETERMINED TO BE PASSING.
4. TRACER WIRE TEST TO BE PERFORMED BY A METROTECH OR APPROVED EQUAL. TRACER ENTIRE LINE/ALL SERVICES TO CURB STOPS.
5. WATERMAIN TESTING TO MEET MINNESOTA DEPARTMENT OF HEALTH STANDARDS

**STORM SEWER TESTING NOTES:**

1. TELEVISION SHALL BE PERFORMED ON ALL DRAINTILE AFTER WEAR COURSE.
2. TELEVISION SHALL BE PERFORMED ON ALL REAR YARD DRAINTILE AFTER RESTORATION IS COMPLETE
3. TELEVISION SHALL BE PERFORMED ON ALL NEWLY INSTALLED STORM SEWER PER ENGINEERS REQUEST

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		SHEET TITLE <b>PIPE MATERIAL AND TESTING DEVELOPMENT</b>									
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	JAN. 2019	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	NPW	RWS	RWS	SCALE		2294-00	GEN - 9	



- UTILITIES INCLUDED IN JOINT TRENCH:
- STREET LIGHTING
  - ELECTRIC
  - CABLE TV
  - TELEPHONE
  - GAS

CROSS SECTION  
NOT TO SCALE

**NOTE:**

1. ALL CONDUIT CROSSINGS UNDER ROADWAYS SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSTALL THE CORRECT SIZE AND NUMBER FOR ALL UTILITIES. THE CONTRACTOR SHALL ALSO INSTALL ONE ADDITIONAL CONDUIT CROSSING FOR FUTURE USE.
2. THE CITY REQUIRES JOINT TRENCHING FOR INSTALLATION OF UTILITIES WITHIN CITY UTILITY EASEMENTS. ALL TRENCHES SHALL BE COMPACTED.
3. ALL CURB STOPS AND BOXES WILL BE LOCATED 9' FROM THE PROPERTY LINE WITHIN THE DRAINAGE AND UTILITY EASEMENT.
4. STREET LIGHTS SHALL BE PLACED AS CLOSE TO 300' INTERVALS AS POSSIBLE IN RESIDENTIAL AREAS AND LOCATED ON PROPERTY CORNERS. ALL STREET LIGHT ELECTRICAL LINES SHALL BE RUGGEDIZED TYPE WIRING OR ENCASED IN CONDUIT AND PLACED WITHIN THE JOINT TRENCH.
5. ALL UTILITY BOXES SHALL BE PLACED ON COMMON PROPERTY CORNERS ON BACK SIDE OF DRAINAGE AND UTILITY EASEMENT.

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PROJECT STANDARD PLATES

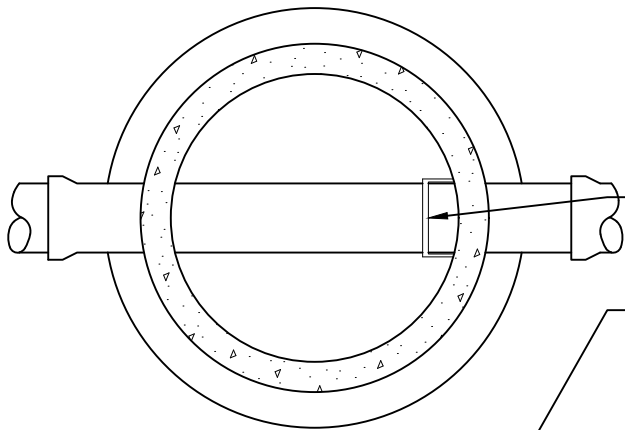
SHEET TITLE  
**UTILITY AND LANDSCAPE LAYOUT**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2018	NPW	RWS	RWS	SCALE	2294-00	GEN - 10	

M:\AutoCAD\_STDS\WAI - STANDARD DETAILS\WAI - MUNICIPALITIES & DOT\MN - City of Corcoran\Corcoran Master Details\SANITARY DETAILS\Standard Plates.dwg & Time: 4 January 2021 11:35 AM

GROUT BOTTOM OF MANHOLE TO 1/2 DIAMETER AT PIPE AND SLOPE GROUT 2" TOWARD INVERT.

CASTING	A	B
R1642	27"	7"
R1755G (WT REQ.)	27"	7"
Ess.Bro.309	27"	7"



**PLAN**

MANHOLE STEPS SHALL BE PLACED SO THAT OFFSET VERTICAL PORTION OF CONE IS FACING DOWNSTREAM

NEENAH FRAME AND COVER PER TABLE OR EQUAL, LETTERED "SANITARY SEWER" WITH 2 CONCEALED PICK HOLES AND SELF SEALING LID. SEE SPECIFICATION FOR CASTING NUMBERS

MINIMUM OF 2, MAX. OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR= 0.2' INSTALL INTERIOR I&I BARRIER EULL'S OR APPROVED EQUAL

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM 387.

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.

MANHOLE STEPS, COPOLYMER POLYPROPYLENE PLASTIC, WITH 1/2" GRADE 60 STEEL REINFORCEMENT OR EQUAL, 16" O.C.

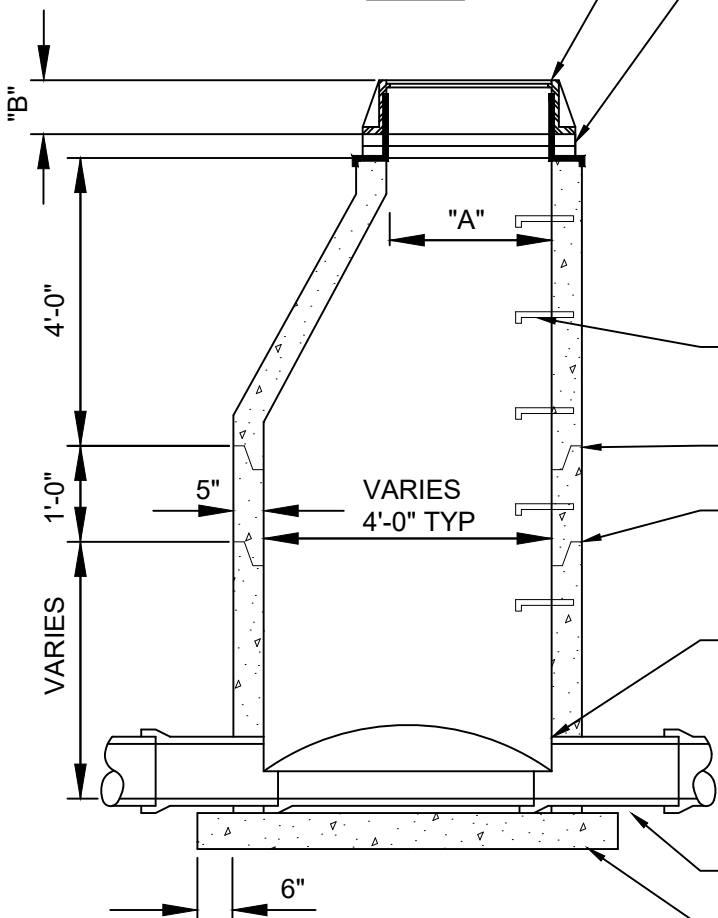
ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKETS

GATOR WRAP REQUIRED ON BOTTOM JOINT. ALL OTHER JOINTS TO BE WRAPPED AS DIRECTED BY ENGINEER

PIPE SHALL NOT BE CUT 2" FROM INSIDE FACE OF WALL

NOTE: KOR-N-SEAL MANHOLE OR APPROVED EQUAL CONSIDERED ACCEPTABLE ALTERNATE. ALL DOG HOUSES SHALL BE GROUTED ON INSIDE. AN A-LOCK GASKET SHALL BE USED AND NO EXTERNAL DOGHOUSE IS REQUIRED  
COMPACT TO TOP OF PIPE, TO FIRST JOINT

MINIMUM THICKNESS OF PRECAST BASE IS 6" FOR STRUCTURES 14" DEEP OR LESS, AND INCREASES 1" IN THICKNESS FOR EVERY 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6" X 6" 10/10 MESH



**SECTION**

ALL INFILTRATION AREAS SHALL BE REPAIRED UNTIL MANHOLE IS WATER TIGHT.



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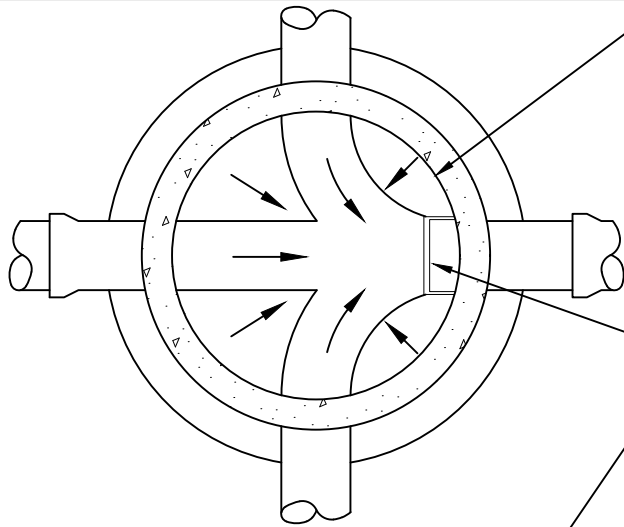
CLIENT  
CITY OF CORCORAN



PROJECT STANDARD PLATES

SHEET TITLE SANITARY SEWER MANHOLE

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	SAN-1	



**PLAN**

PRECAST INVERT MUST BE  $\frac{1}{2}$  DIAMETER OF PIPE AND BENCHES SHOULD BE SLOPED 2" TOWARD INVERT

	A	B
R1642	27"	7"
R1755G (WT REQ.)	27"	7"
Ess. Bro. 309	27"	7"

MANHOLE STEPS SHALL BE PLACED SO THAT OFFSET VERTICAL PORTION OF CONE IS FACING DOWNSTREAM.

NEENAH FRAME AND COVER OR EQUAL LETTERED "SANITARY SEWER" WITH 2 CONCEALED PICK HOLES AND SELF SEALING LID.

MINIMUM OF 2 AND MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL INTERIOR I&I BARRIER EULL'S OR APPROVED EQUAL.

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM 387.

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.

MANHOLE STEPS, COPOLYMER POLYPROPYLENE PLASTIC, WITH 1/2" GRADE 60 STEEL REINFORCEMENT OR EQUAL, 16" ON CENTER.

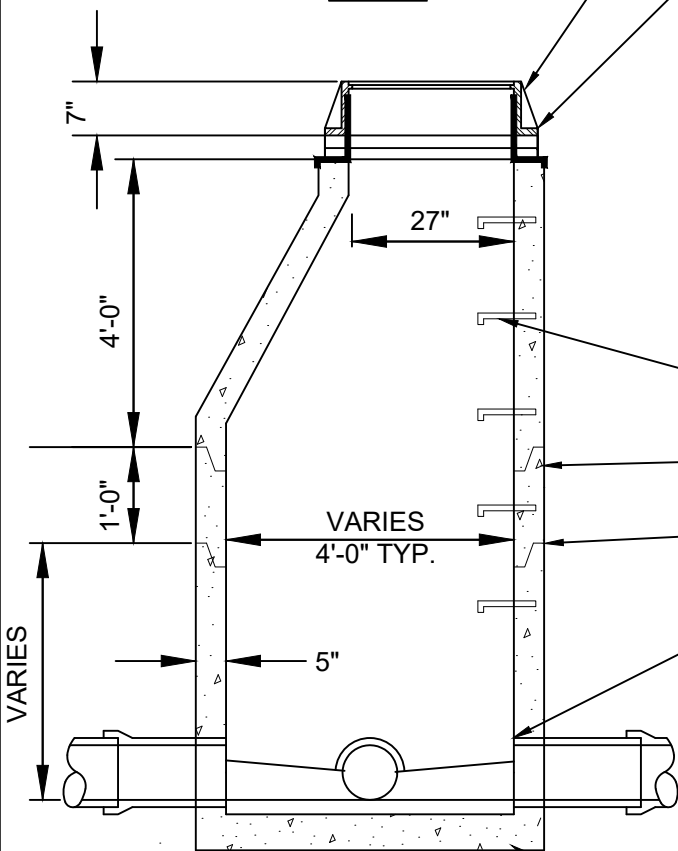
ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKETS.

GATOR WRAP REQUIRED ON BOTTOM JOINT. ALL OTHER JOINTS TO BE WRAPPED AS DIRECTED BY ENGINEER

PIPE SHALL BE CUT 2" FROM INSIDE FACE OF WALL.

NOTE: KOR-N-SEAL MANHOLE OR APPROVED EQUAL CONSIDERED ACCEPTABLE ALTERNATE. ALL DOG HOUSES SHALL BE GROUTED ON INSIDE. AN A-LOCK GASKET SHALL BE USED AND NO EXTERNAL DOGHOUSE IS REQUIRED

MINIMUM THICKNESS OF PRECAST BASE IS 6" FOR STRUCTURES 14' DEEP OR LESS, AND INCREASES 1" IN THICKNESS FOR EVERY 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH.



**SECTION**

ALL INFILTRATION AREAS SHALL BE REPAIRED UNTIL MANHOLE IS WATER TIGHT.



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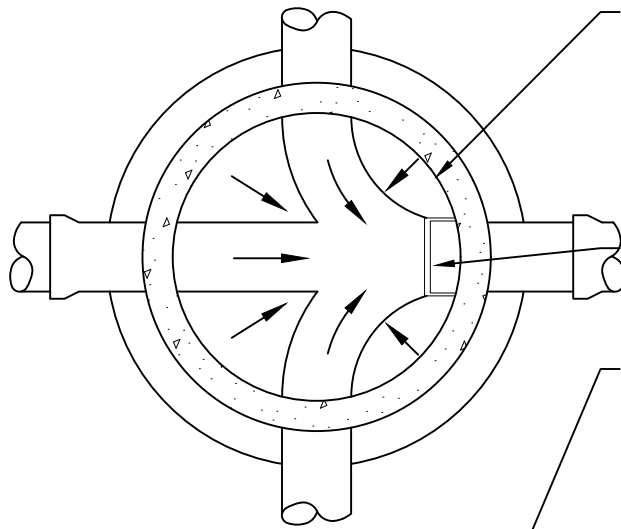
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**CITY OF CORCORAN**



PROJECT  
 STANDARD PLATES

SHEET TITLE  
**SANITARY SEWER JUNCTION  
 MANHOLE**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	FEB. 2012	2294-00	SAN-2	
							SCALE			



**PLAN**

GROUT BOTTOM OF MANHOLE TO 1/2 DIAMETER AT PIPE AND SLOPE GROUT 2" TOWARD INVERT.

CASTING	A	B
R1642B	27"	7"
R1755G	27"	7"
Ess.Bro.309	27"	7"

MANHOLE STEPS SHALL BE PLACED SO THAT OFFSET VERTICAL PORTION OF CONE IS FACING DOWNSTREAM.

NEENAH FRAME AND COVER PER TABLE OR EQUAL, LETTERED "SANITARY SEWER", WITH 2 CONCEALED PICK HOLES AND SELF SEALING LID.

MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL INTERIOR I&I BARRIER EULL'S OR APPROVED EQUAL.

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM 387.

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.

GATOR WRAP REQUIRED ON BOTTOM JOINT. ALL OTHER JOINTS TO BE WRAPPED AS DIRECTED BY ENGINEER

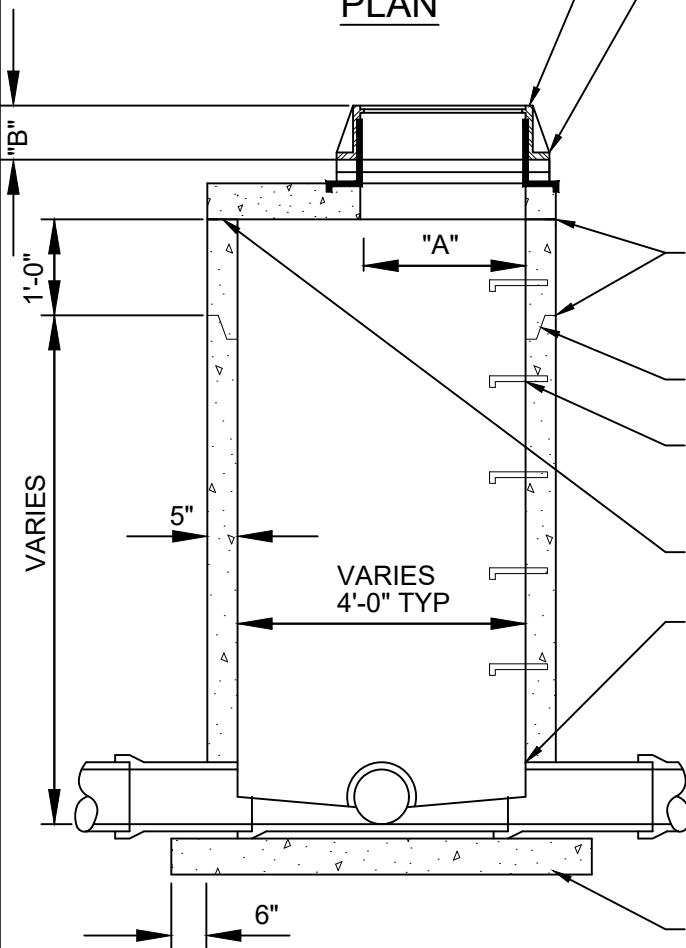
ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKETS.

MANHOLE STEPS, COPOLYMER POLYPROPYLENE PLASTIC, WITH 1/2" GRADE 60 STEEL REINFORCEMENT OR EQUAL, 16" ON CENTER.

TOP BAREL TO BE SECURED WITH 2 LAYERS OF RAMNEK OR APPROVED EQUAL.

PIPE SHALL BE CUT 2" FROM INSIDE FACE OF WALL. NOTE: KOR-N-SEAL MANHOLE OR APPROVED EQUAL CONSIDERED ACCEPTABLE ALTERNATE. ALL DOG HOUSES SHALL BE GROUTED ON INSIDE. AN A-LOCK GASKET SHALL BE USED AND NO EXTERNAL DOGHOUSE IS REQUIRED

MINIMUM THICKNESS OF PRECAST BASE IS 6" FOR STRUCTURES 14' DEEP OR LESS, AND INCREASES 1" IN THICKNESS FOR EVERY 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH.



**SECTION**



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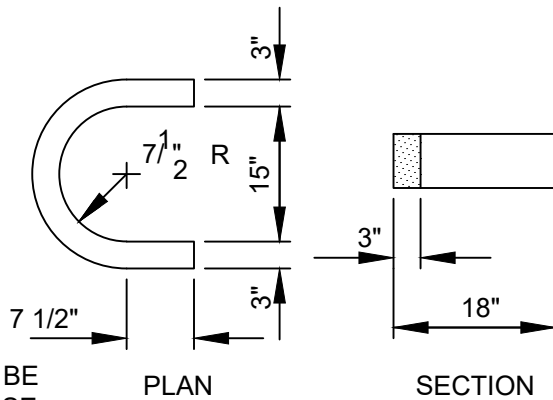
CLIENT  
**CITY OF CORCORAN**



PROJECT **STANDARD PLATES**

SHEET TITLE **SANITARY SEWER JUNCTION  
 MANHOLE WITH REINFORCED TOP SLAB**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	FEB. 2012	2294-00	SAN-3	
							SCALE			



CASTING	A	B
R1642B	27"	7"
R1755G	27"	7"
Ess.Bro.309	27"	7"

GROUT BOTTOM OF MANHOLE TO 1/2 DIAMETER OF PIPE AND SLOPE GROUT 2" TOWARD INVERT

MANHOLE TO BE LINED WITH GSE STUDLINER, AGRU SUREGRIP THERMOPLASTIC, T-LOCK PROTECTIVE LINER OR APPROVED EQUAL.

**HORSESHOE DETAILS**

ALL INFILTRATION AREAS SHALL BE REPAIRED UNTIL MANHOLE IS WATER TIGHT.

NEENAH FRAME AND COVER PER TABLE OR EQUAL, LETTERED "SANITARY SEWER", WITH 2 CONCEALED PICK HOLES AND SELF SEALING LID.

MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL INTERIOR I&I BARRIER EULL'S OR APPROVED EQUAL. ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM 387.

MANHOLE STEPS, COPOLYMER POLYPROPYLENE PLASTIC, WITH 1/2" GRADE 60 STEEL REINFORCEMENT OR EQUAL 16" ON CENTER. MANHOLE STEPS SHALL BE PLACED SO THAT OFFSET VERTICAL PORTION OF CONE IS FACING DOWNSTREAM. ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKETS.

GATOR WRAP REQUIRED ON BOTTOM JOINT. ALL OTHER JOINTS TO BE WRAPPED AS DIRECTED BY ENGINEER

PIPE SHALL BE CUT 2" FROM INSIDE FACE OF WALL.

MINIMUM THICKNESS OF PRECAST BASE IS 6" FOR STRUCTURES 14' DEEP OR LESS, AND INCREASES 1" IN THICKNESS FOR EVERY 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH. NOTE: KOR-N-SEAL MANHOLE OR APPROVED EQUAL CONSIDERED ACCEPTABLE ALTERNATE. ALL DOG HOUSES SHALL BE GROUTED ON INSIDE. AN A-LOCK GASKET SHALL BE USED AND NO EXTERNAL DOGHOUSE IS REQUIRED

PROVIDE A MINIMUM 5' OVERLAP INTO UNDISTURBED SOIL OR 2' DEEP BY 2' WIDE ROCK BEDDING. INSTALL CONCRETE COLLAR AROUND CONNECTION

20' MIN DIP

DIP TO BE WRAPPED IN POLY AND TAPED

HORSESHOES (SEE DETAILS)

DIP TO BE MADE IN USA OR CANADA, FITTINGS TO BE EPOXY BONDED, DIP TO BE LINED WITH PROTECTO 4001 LINER OR APPROVED EQUAL



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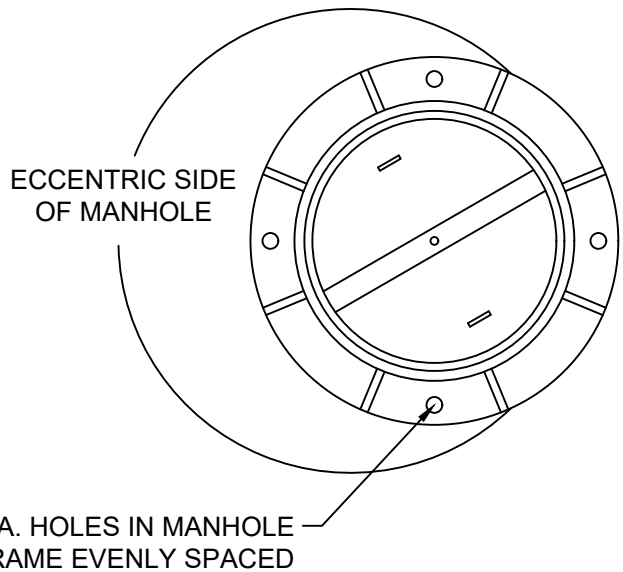
PROJECT  
STANDARD PLATES

SHEET TITLE  
**SANITARY SEWER  
DROP INLET MANHOLE**

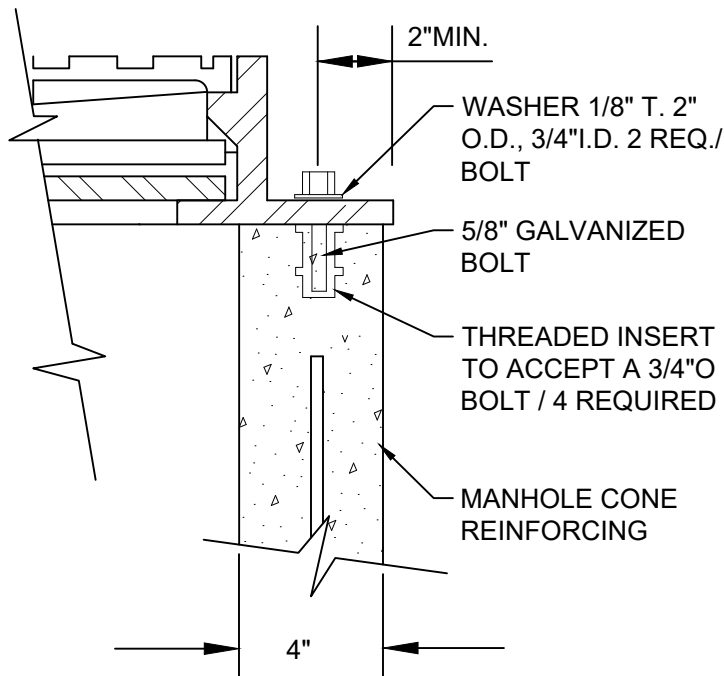
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE
			JAN 2021	SKH	RWS	RWS	FEB. 2012
							SCALE

PROJECT NO.	SHEET NO.	REV NO.
2294-00	<b>SAN-4</b>	

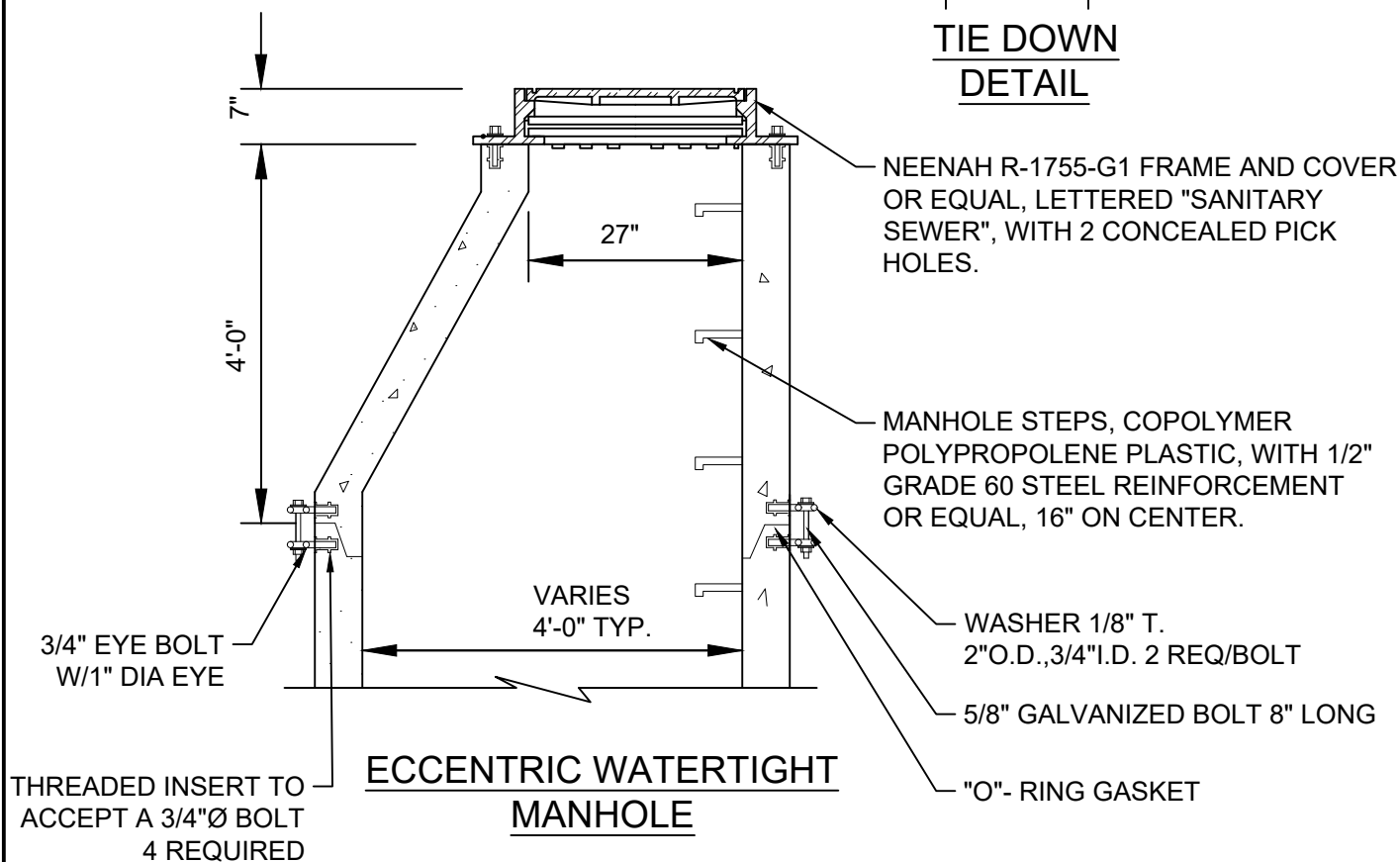




**PLAN VIEW TOP COVER REMOVED**



**TIE DOWN DETAIL**



**ECCENTRIC WATERTIGHT MANHOLE**



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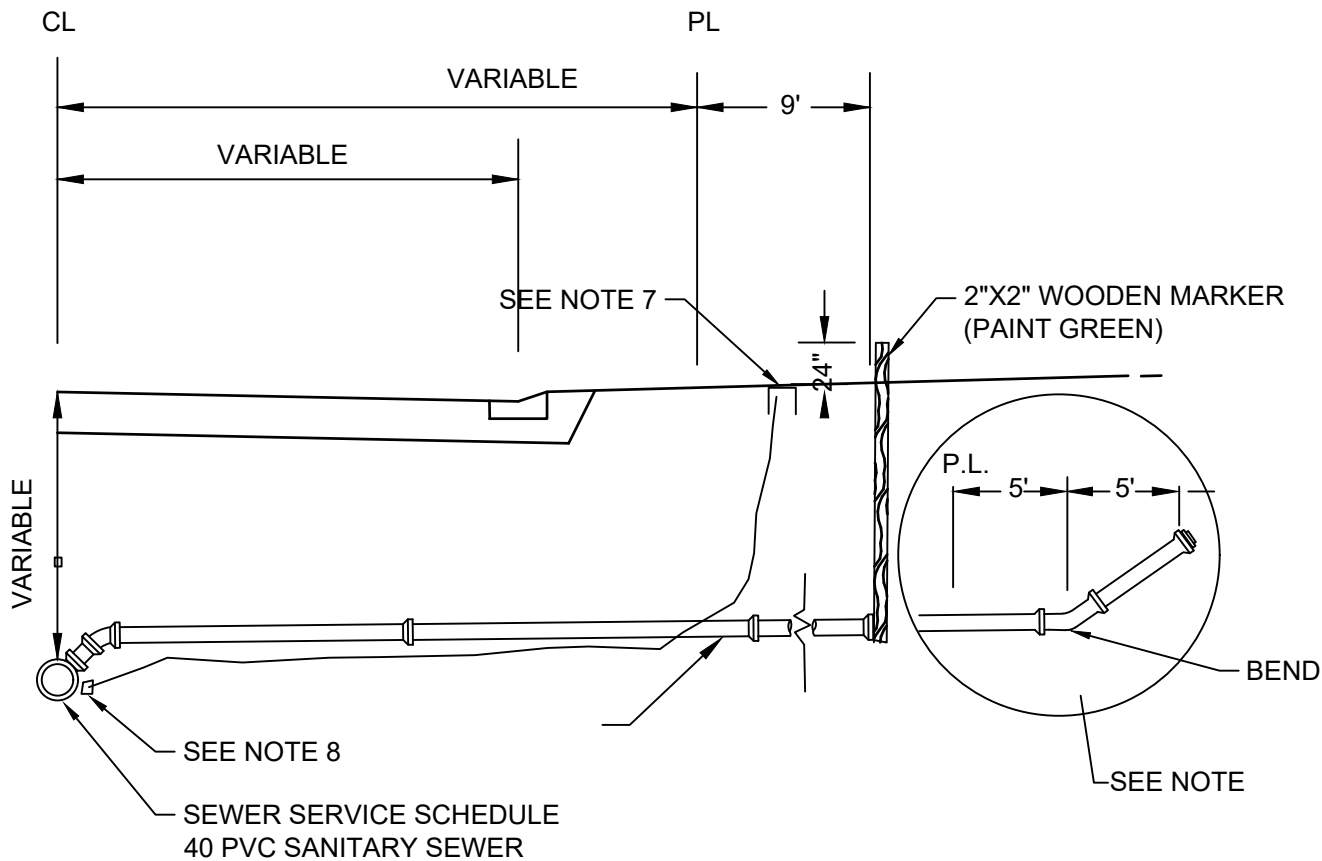
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**CITY OF CORCORAN**



PROJECT  
 STANDARD PLATES

SHEET TITLE  
**WATER TIGHT CASTING FOR SANITARY SEWER MANHOLE**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	FEB. 2012	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2017	SKH	RWS	RWS	SCALE		2294-00	SAN-5	

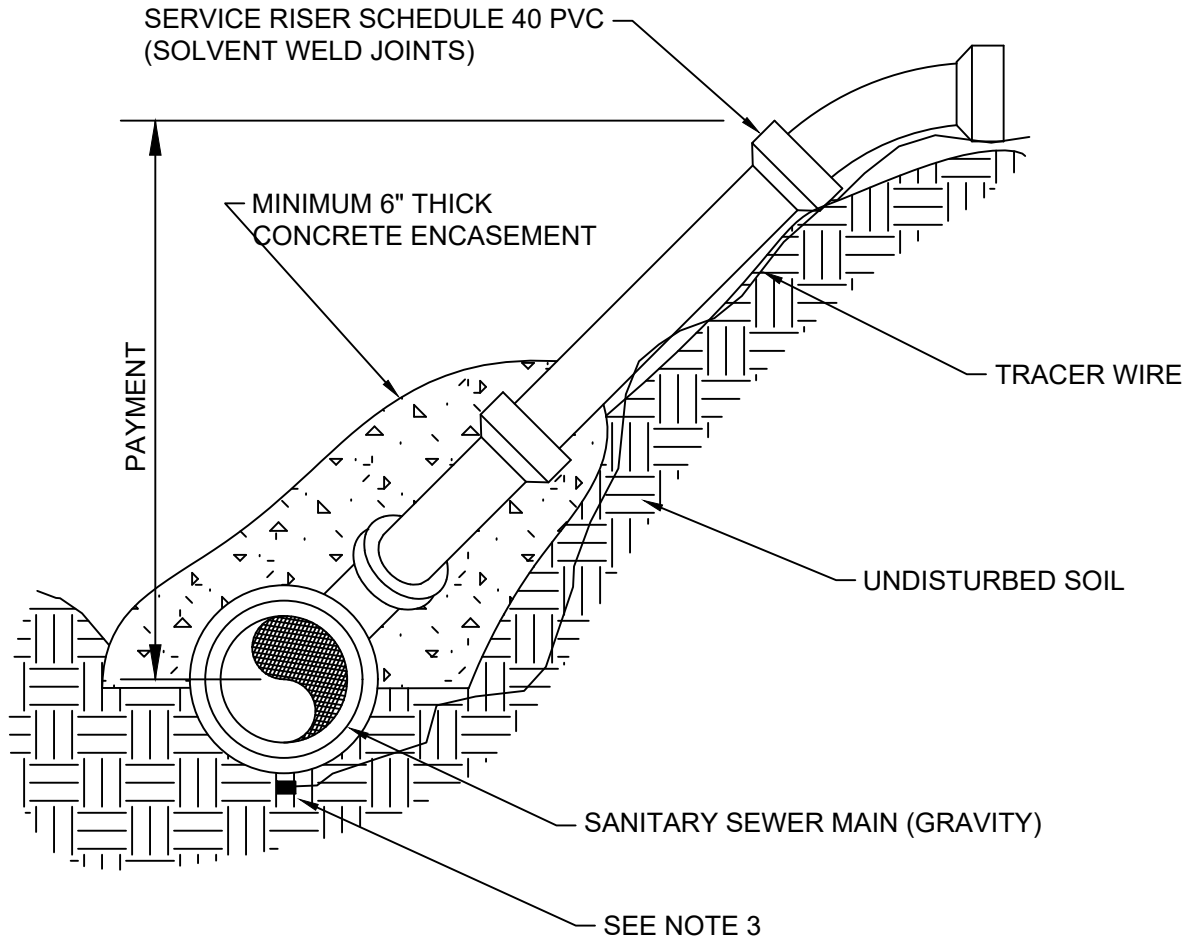


**NOTES:**

1. SEWER SERVICES. 4" (UNLESS OTHERWISE SPECIFIED ON PLANS) SCHEDULE 40 PVC SEWER PIPE
2. PIPE JOINTS SHALL BE NON GASKETED, SOLVENT WELD TYPE.
3. SLOPE 1/4" PER FOOT MINIMUM.
4. ALL PIPE SHALL BE BEDDED IN GRANULAR BORROW 3149.2B1 EXCEPT THE LAST TEN FEET WHERE COARSE FILTER AGGREGATE (3149.2H) WILL BE REQUIRED.
5. BENDS OF 45 OR LESS SHALL BE USED WITHIN THE LAST 5' OF THE SERVICE IF THE DEPTH OF THE SERVICE SHOULD EXCEED 8'.
6. INSTALL SANITARY RISER TO MATCH CURB STOP ELEVATION.
7. TRACER WIRE SHALL BE BROUGHT UP ALONG WATERMAIN CURB STOP. INSTALL VALVCO, SNAKEPIT, OR APPROVE EQUAL TRAFFIC RATED TRACER WIRE ACCESS BOX WITH 2 LUGS.
8. MIN OF 1 LB. DRIVE IN ANODES WITH MIN 20' WIRE LEAD ARE TO BE INSTALLED AT EVERY SANITARY SERVICE WYE.
9. TRACER WIRE SHALL BE 12 AWG COPPER CLAD STEEL ORE WIRE WITH MIN BREAK LOAD OF 270 LB FOR OPEN CUT INSTALLATION RATED FOR 30 VOLTS. MIN 45 MIL HMWPE JACKET
10. TRACER WIRE CONNECTOR SHALL BE DRY CONN DIRECT BURY LUG AQUA, PRO-TRACE DB OR APPROVED EQUAL.

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				<p>SHEET TITLE <b>SEWER SERVICE CONNECTION</b></p>						
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	FEB. 2012	2294-00	SAN-6	
							SCALE			

PVC PIPE BED AND ENCASE IN SELECT GRANULAR, TYPICAL PVC APPLICATION.



**NOTE:**

1. TRACER WIRE CONNECTOR SHALL BE DRY CONN DIRECT BURY LUG AQUA, PRO-TRACE DB OR APPROVED EQUAL
2. TRACER WIRE SHALL BE 12 AWG COPPER CLAD STEEL ORE WIRE WITH MIN BREAK LOAD OF 270 LB FOR OPEN CUT INSTALLATION RATED FOR 30 VOLTS. MIN 45 MIL HMWPE JACKET
3. MIN OF 1 LB. DRIVE IN ANODES WITH MIN 20' WIRE LEAD ARE TO BE INSTALLED AT EVERY SANITARY SERVICE WYE.
4. DEPTHS OVER 25', DUCTILE IRON TEES TO BE USED IN PLACE OF PVC WYE.
5. RISERS TO BE DIP, DIP TO PVC TRANSITION FITTING TO BE USED AT TOP OF RISER
6. ALL SEWER AND DUCTILE IRON FITTINGS TO BE EPOXY BONDED. ALL SEWER DUCTILE IRON PIPES AND FITTINGS TO HAVE PROTECTO 401 LINER. ALL MATERIALS TO BE AMERICAN MADE.
7. ALL DUCTILE IRON PIPES AND FITTINGS TO BE WRAPPED IN POLY AND TAPED.



Responsive partner. Exceptional outcomes.

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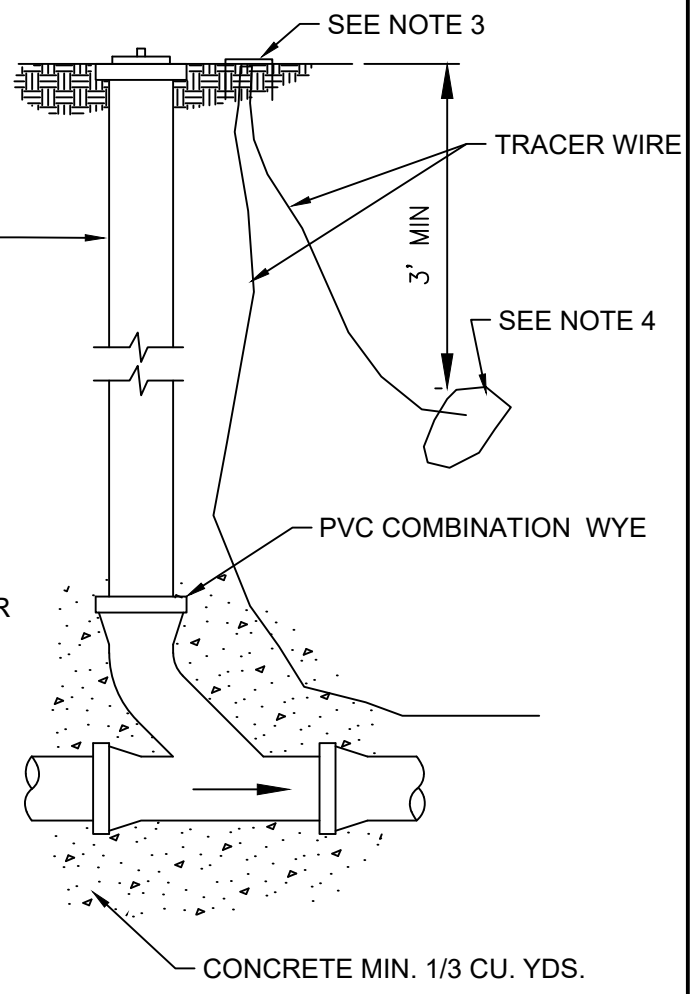
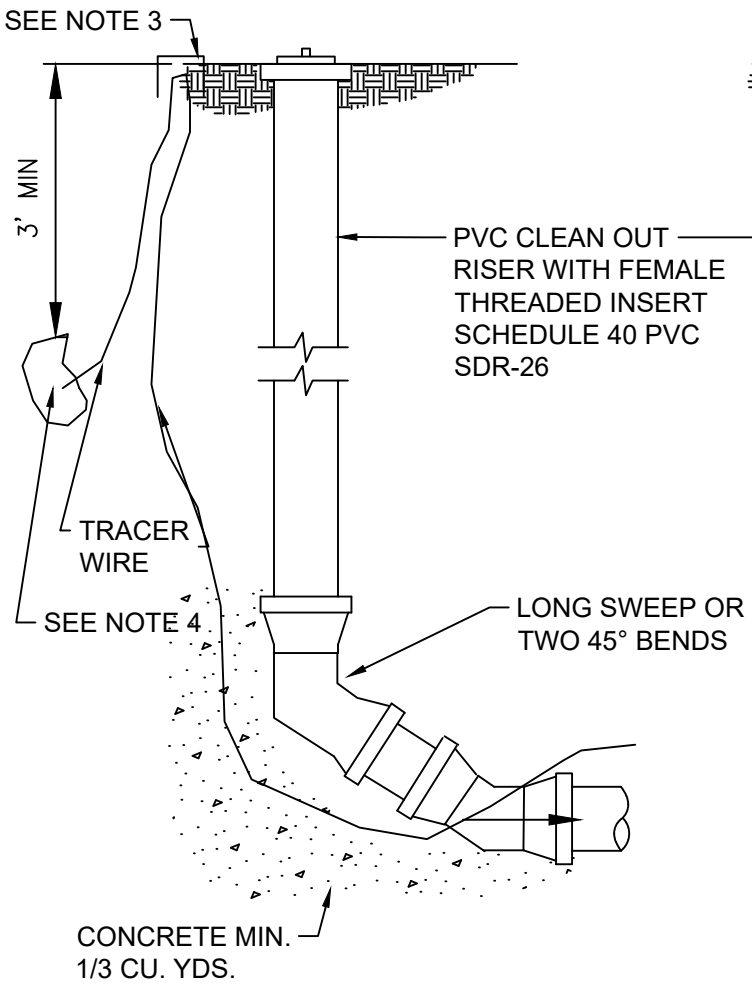
PROJECT **STANDARD PLATES**

SHEET TITLE  
**SEWER SERVICE RISER**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	FEB. 2012	2294-00	SAN-7	
							SCALE			

NOTE:  
CLEANOUT CAP SHALL BE  
THREADED MALLEABLE IRON  
(GALVANIZED)

NOTE:  
ENCLOSE LONG SWEEP BEND  
OR COMBINATION WYE IN  
CONCRETE AS SHOWN.



END OF LINE CLEANOUT

IN LINE CLEANOUT

NOTE:  
CLEANOUT IS REQUIRED FOR EVERY 100 FEET OF SERVICE LENGTH, OR AT BENDS IN SERVICE.

- NOTE:
1. IF CLEANOUT IS IN DRIVEWAY, CONTRACTOR MUST INSTALL FORD A-1 CASTING, MARKED WITH "SEWER ON LID.
  2. IF CLEANOUT IS IN ROADWAY, CONTRACTOR MUST INSTALL TOP SECTION OF A VALVE BOX WITH LID MARKED "SEWER".
  3. TRACER WIRE SHALL BE BROUGHT UP ALONG CLEANOUT. INSTALL VALVCO, SNAKEPIT, OR APPROVE EQUAL TRAFFIC RATED TRACER WIRE ACCESS BOX.
  4. MIN OF 1 LB. DRIVE IN ANODES WITH MIN 20' WIRE LEAD ARE TO BE INSTALLED AT EVERY TRACE WIRE ACCESS BOX.
  5. TRACER WIRE SHALL BE 12 AWG COPPER CLAD STEEL ORE WIRE WITH MIN BREAK LOAD OF 270 LB FOR OPEN CUT INSTALLATION RATED FOR 30 VOLTS. MIN 45 MIL HMWPE JACKET

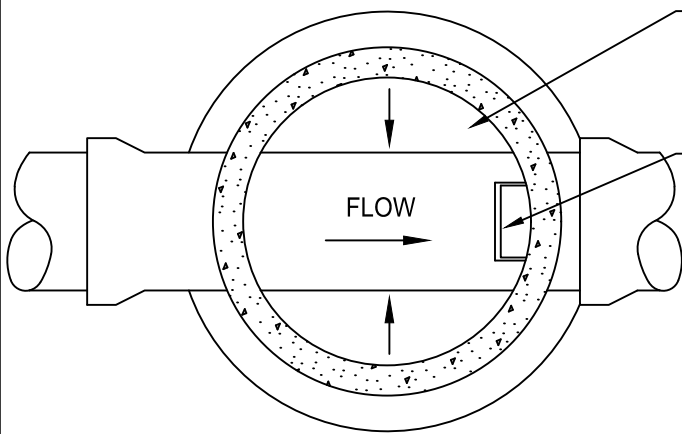
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PROJECT  
STANDARD PLATES

SHEET TITLE  
**PVC SERVICE LINE CLEANOUTS**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2017	SKH	RWS	RWS	FEB. 2012	2294-00	SAN-8	
							SCALE			

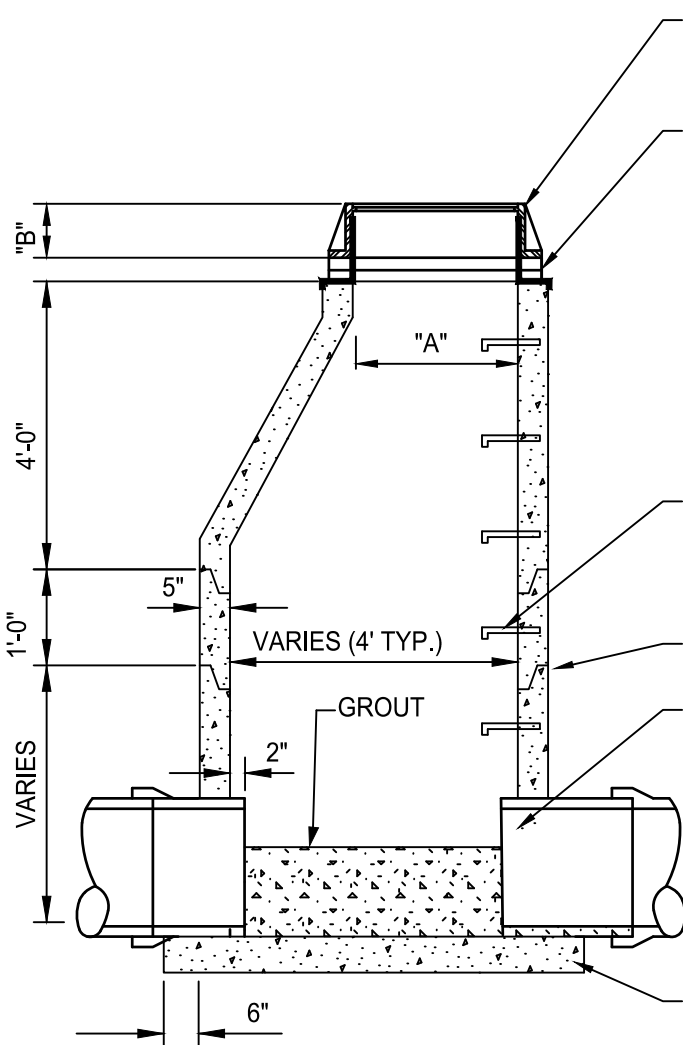


GROUT BOTTOM OF MANHOLE TO A MINIMUM OF 1/2 DIAMETER AT PIPE AND SLOPE GROUT 2" TOWARD INVERT.

MANHOLE STEPS SHALL BE PLACED SO THAT OFFSET VERTICAL PORTION OF CONE IS FACING DOWNSTREAM FOR ALL PIPES UP TO 24". PLACE STEPS ON RIGHT HAND SIDE WHEN FACING DOWN STREAM FOR ALL PIPES 24" AND OVER

APPROVED CASTINGS

CASTING	A	B
NEENAH R1642	27"	7"



NEENAH FRAME AND COVER OR EQUAL LETTERED, "STORM SEWER", WITH 2 CONCEALED PICK HOLES

MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL INTERNAL I&I BARRIER EULL'S FOR IN STREET STRUCTURES. INFISHIELD SHALL BE INSTALLED IN BACKYARD STRUCTURES ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM C387.

MANHOLE STEPS, COPOLYMER POLYPROPYLENE PLASTIC, WITH 1/2" GRADE 60 STEEL REINFORCEMENT OR EQUAL, 16" ON CENTER. (NO STEPS ALLOWED IN UPPER 27" BARREL.)

ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKETS.

PIPE SHALL BE CUT OUT 2" FROM INSIDE FACE OF WALL. \*\*DOG HOUSES MUST BE GROUTED BOTH INSIDE AND OUTSIDE OF STRUCTURE.

SUMP MANHOLE REQUIRED WHEN THERE IS A 1.5' OR GREATER DROP BETWEEN INVERTS, AND THE FIRST STRUCTURE UPSTREAM FROM PIPE OUTLET. SEE STO-4.

MINIMUM SLAB THICKNESS 6" FOR STRUCTURES 14' IN DEPTH OR LESS. INCREASE THICKNESS 1" FOR EACH 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH.



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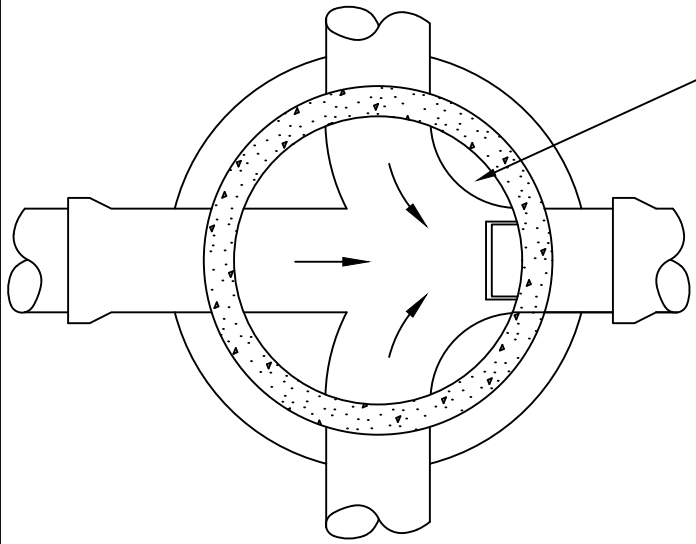
CLIENT  
CITY OF CORCORAN



PROJECT STANDARD PLATES

SHEET TITLE  
STORM SEWER  
MANHOLE

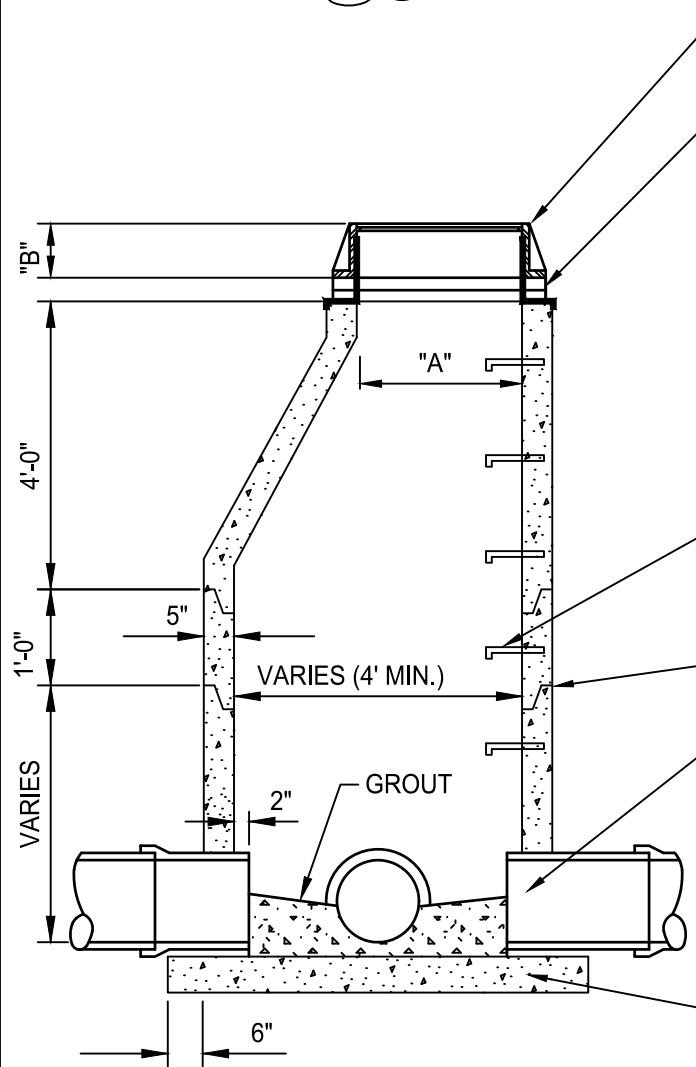
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STO-1	



GROUT BOTTOM OF MANHOLE TO A MINIMUM OF 1/2 DIAMETER AT PIPE AND SLOPE GROUT 2" TOWARD INVERT.

APPROVED CASTINGS

CASTING	A	B
NEENAH R1642	27"	7"



NEENAH FRAME AND COVER OR EQUAL LETTERED, "STORM SEWER", WITH 2 CONCEALED PICK HOLES

MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL INTERNAL I&B BARRIER EULL'S FOR IN STREET STRUCTURES. INFISHIELD SHALL BE INSTALLED IN BACKYARD STRUCTURES

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM C387.

MANHOLE STEPS, COPOLYMER POLYPROPYLENE PLASTIC, WITH 1/2" GRADE 60 STEEL REINFORCEMENT OR EQUAL, 16" ON CENTER. (NO STEPS ALLOWED IN UPPER 27" BARREL.)

ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKETS.

PIPE SHALL BE CUT OUT 2" FROM INSIDE FACE OF WALL.

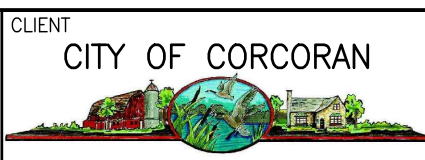
\*\*DOG HOUSES MUST BE GROUTED BOTH INSIDE AND OUTSIDE OF STRUCTURE.

SUMP MANHOLE REQUIRED WHEN THERE IS A 1.5' OR GREATER DROP BETWEEN INVERTS, AND THE FIRST STRUCTURE UPSTREAM FROM PIPE OUTLET. SEE STO-4.

MINIMUM SLAB THICKNESS 6" FOR STRUCTURES 14' IN DEPTH OR LESS. INCREASE THICKNESS 1" FOR EACH 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH.

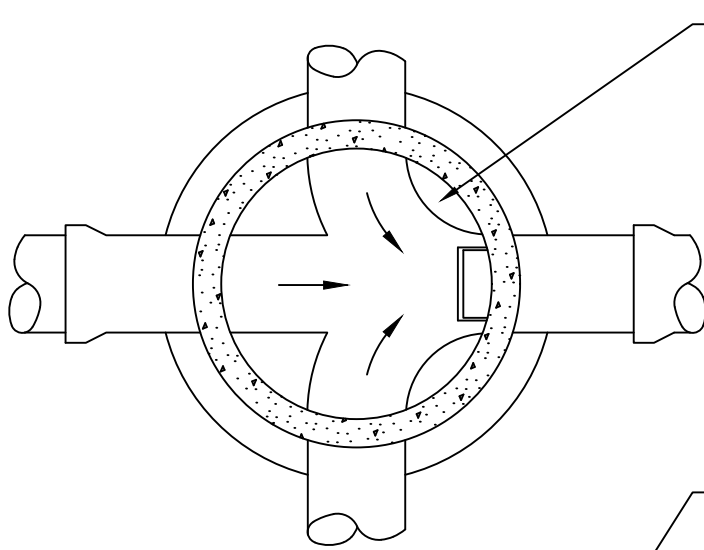


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CLIENT	CITY OF CORCORAN	PROJECT	STANDARD PLATES
SHEET TITLE	STORM SEWER JUNCTION MANHOLE		

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STO-2	



GROUT BOTTOM OF MANHOLE TO A MINIMUM OF 1/2 DIAMETER AT PIPE AND SLOPE GROUT 2" TOWARD INVERT.

APPROVED CASTINGS

CASTING	A	B
NEENAH R1642	27"	7"

NEENAH FRAME AND COVER OR EQUAL LETTERED, "STORM SEWER", WITH 2 CONCEALED PICK HOLES

MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL INTERNAL I&I BARRIER EULL'S FOR IN STREET STRUCTURES. INFISHIELD SHALL BE INSTALLED IN BACKYARD STRUCTURES

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM C387.

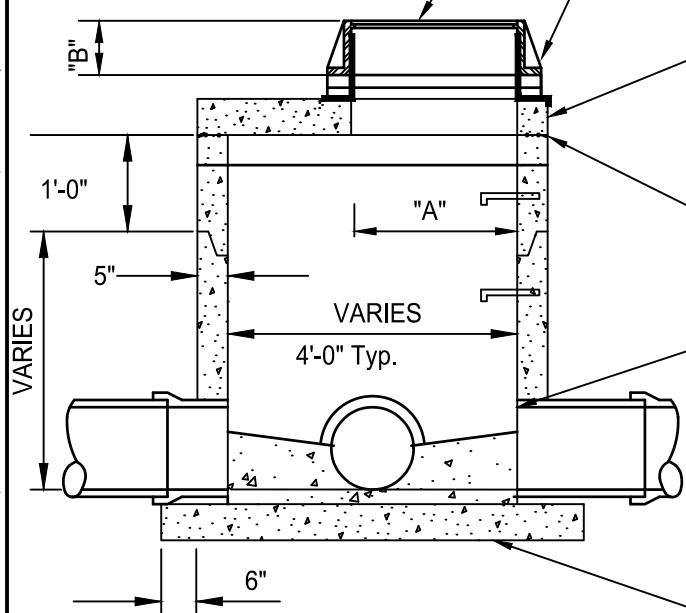
6" PRECAST REINFORCED CONCRETE MANHOLE SLAB WITH #4 BARS AT 5" O.C. EACH WAY AND 2-#4 BARS AT ALL SIDES OF OPENING.

TOP BARREL OF SECTION BELOW TOP SLAB TO HAVE FLAT TOP EDGE SEALED WITH 2 BEADS OF RAMNEK OR APPROVED EQUAL. EXTERNAL WRAP (GATOR WRAP OR APPROVED EQUAL) REQUIRED

PIPE SHALL BE CUT OUT 2" FROM INSIDE FACE OF WALL. \*\*DOG HOUSES MUST BE GROUTED BOTH INSIDE AND OUTSIDE OF STRUCTURE.

SUMP MANHOLE REQUIRED WHEN THERE IS A 1.5' OR GREATER DROP BETWEEN INVERTS, AND THE FIRST STRUCTURE UPSTREAM FROM PIPE OUTLET. SEE STO-4.

MINIMUM SLAB THICKNESS 6" FOR STRUCTURES 14' IN DEPTH OR LESS. INCREASE THICKNESS 1" FOR EACH 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH.



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PROJECT

STANDARD PLATES

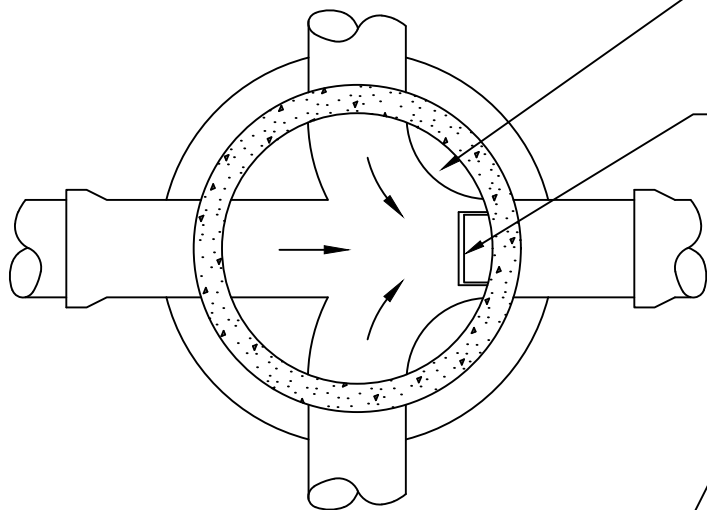
SHEET TITLE

STORM SEWER JUNCTION REINFORCED TOP SLAB

REV	DWN	APP	REV DATE
			JAN 2021

DWN BY	CHK'D	APP'D	DWG DATE
SKH	RWS	RWS	SCALE

PROJECT NO.	SHEET NO.	REV NO.
2294-00	STO-3	



GROUT BOTTOM OF MANHOLE TO A MINIMUM OF 1/2 DIAMETER AT PIPE AND SLOPE GROUT 2" TOWARD INVERT.

MANHOLE STEPS SHALL BE PLACED SO THAT OFFSET VERTICAL PORTION OF CONE IS FACING DOWNSTREAM FOR ALL PIPES UP TO 24". PLACE STEPS ON RIGHT HAND SIDE WHEN FACING DOWN STREAM FOR ALL PIPES 24" AND OVER

APPROVED CASTINGS

CASTING	A	B
NEENAH R1642	27"	7"

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED. MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM C387.

NEENAH FRAME AND COVER OR EQUAL LETTERED, "STORM SEWER", WITH 2 CONCEALED PICK HOLES

MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL INTERNAL I&I BARRIER EULL'S FOR IN STREET STRUCTURES. INFISHIELD SHALL BE INSTALLED IN BACKYARD STRUCTURES

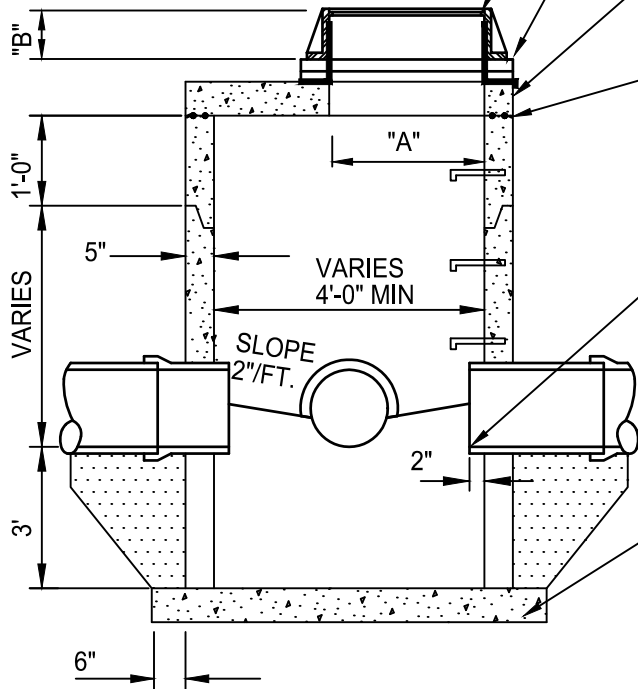
6" PRECAST REINFORCED CONCRETE MANHOLE SLAB WITH #4 BARS AT 5" O.C. EACH WAY AND 2-#4 BARS AT ALL SIDES OF OPENING.

TOP BARREL OF SECTION BELOW TOP SLAB TO HAVE FLAT TOP EDGE SEALED WITH 2 BEADS OF RAMNEK OR APPROVED EQUAL. EXTERNAL WRAP (GATOR WRAP OR APPROVED EQUAL) REQUIRED

PIPE SHALL BE CUT OUT 2" FROM INSIDE FACE OF WALL.

SUMP MANHOLE REQUIRED WHEN THERE IS A 1.5' OR GREATER DROP BETWEEN INVERTS, AND THE FIRST STRUCTURE UPSTREAM FROM PIPE OUTLET. SEE STO-4.

MINIMUM SLAB THICKNESS 6" FOR STRUCTURES 14' IN DEPTH OR LESS. INCREASE THICKNESS 1" FOR EACH 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH.



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CITY OF CORCORAN



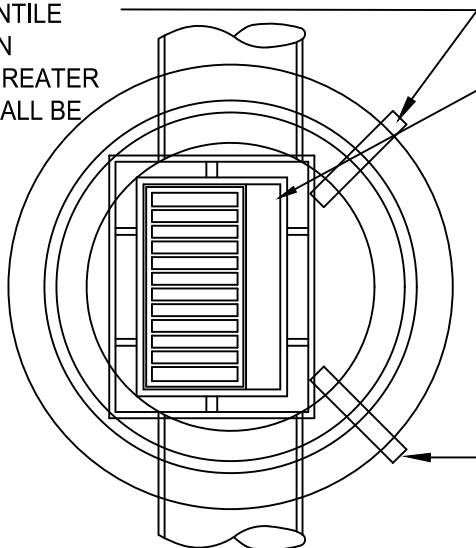
PROJECT STANDARD PLATES

SHEET TITLE STORM SEWER JUNCTION REINFORCED TOP SLAB & SUMP

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STO-4	



4" PVC DRAINTILE CONNECTION  
NO BENDS GREATER THAN 45° SHALL BE ALLOWED

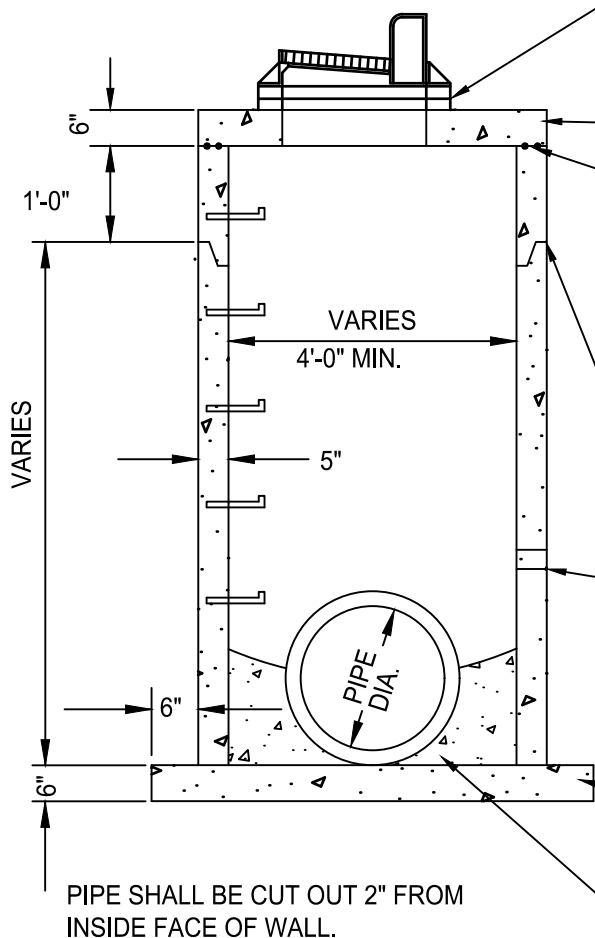


24"X36" SLAB OPENING FOR NEENAH R3067V. INSTALL R3290-A FOR DRIVEWAYS AND VALLEY GUTTERS. (VANE GRATE SHOWN). INSTALL NEENAH 3067VB TWO WAY GRATE AT ALL LOW POINTS.

DIMENSION FROM BACK OF CURB TO CENTER OF PIPE.

- 4' DIA. MH - 9" IN FROM BACK OF CURB
- 5' DIA. MH - 3" IN FROM BACK OF CURB
- 6' DIA. MH - 3" BEHIND BACK OF CURB
- 7' DIA. MH - 9" BEHIND BACK OF CURB
- 8' DIA. MH - 15" BEHIND BACK OF CURB

NO BLOCK STRUCTURES ALLOWED.



MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL EXTERIOR INFI-SHIELD OR APPROVED EQUAL.

6" PRECAST REINFORCED CONCRETE SLAB.

TOP OF BARREL SECTION UNDER TOP SLAB TO HAVE FLAT TOP EDGE SEALED WITH 2 BEADS OF RAMNEK OR APPROVED EQUAL. EXTERNAL WRAP (GATOR WRAP OR APPROVED EQUAL) REQUIRED

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM C387.

ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKETS.

4" PVC DRAINTILE CONNECTION.

SUMP MANHOLE REQUIRED WHEN THERE IS A 1.5' OR GREATER DROP BETWEEN INVERTS, AND THE FIRST STRUCTURE UPSTREAM FROM PIPE OUTLET. SEE STO-6.

MINIMUM SLAB THICKNESS 6" FOR STRUCTURES 14' IN DEPTH OR LESS. INCREASE THICKNESS 1" FOR EACH 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH.

PIPE SHALL BE CUT OUT 2" FROM INSIDE FACE OF WALL.

\*\*DOG HOUSES MUST BE GROUTED BOTH INSIDE AND OUTSIDE OF STRUCTURE.

GROUT BOTTOM



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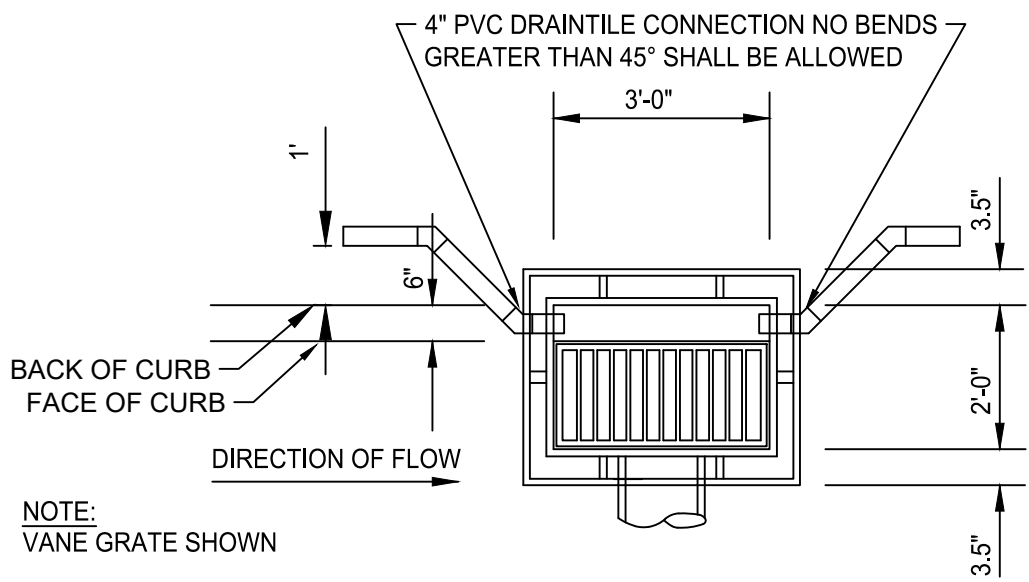
CLIENT  
CITY OF CORCORAN



PROJECT STANDARD PLATES

SHEET TITLE  
CATCHBASIN  
MANHOLE

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	NPW	RWS	RWS	SCALE	2294-00	STO-5	

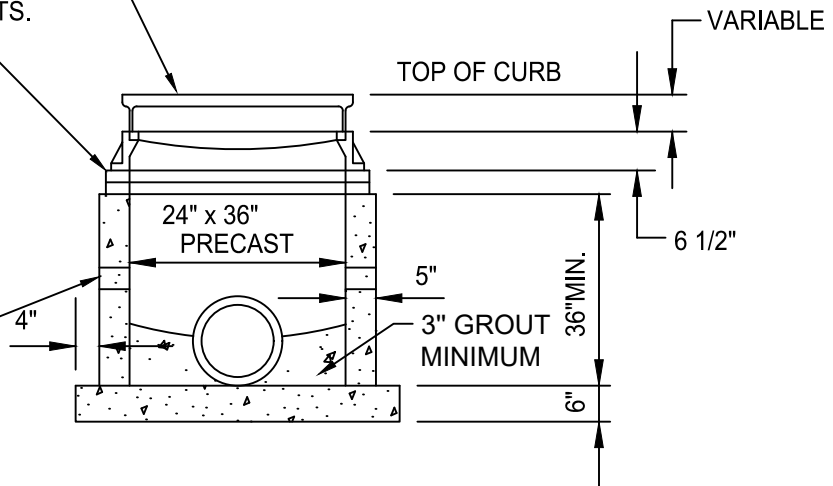


**PLAN**

CATCHBASIN CASTING NEENAH R3067V OR EQUAL WITH VANE GRATE, 3" RADIUS CURB BOX. INSTALL R3290-A CASTING IN DRIVEWAYS AND VALLEY GUTTERS. INSTALL NEENAH 3067VB TWO WAY GRATE AT ALL LOW POINTS.

NO BLOCK STRUCTURES ALLOWED.

MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL EXTERIOR INFI-SHIELD OR APPROVED EQUAL.



4" PVC DRAINTILE CONNECTION

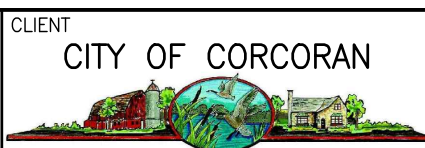
DOGHOUSES SHALL BE GROUTED ON BOTH THE OUTSIDE AND THE INSIDE.

**SECTION**

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.  
MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM C387.



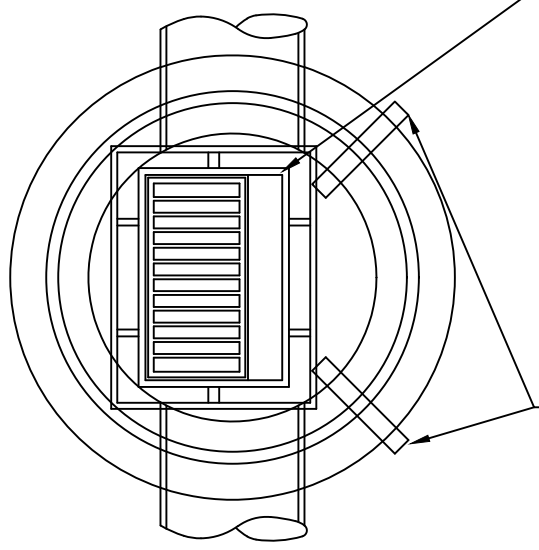
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CLIENT	CITY OF CORCORAN		
PROJECT	STANDARD PLATES		
SHEET TITLE	2'X3' CATCHBASIN		
PROJECT NO.	2294-00	SHEET NO.	STO-7
REV NO.		REV NO.	

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE
			JAN 2021	NPW	RWS	RWS	SCALE

M:\AutoCAD\_STDS\WAI - STANDARD DETAILS\WAI - MUNICIPALITIES & DOT\MN - City of Corcoran\Corcoran Master Details\STORM DETAILS\Waste & Time: 4 January 2021 1:04 PM



24"X36" SLAB OPENING FOR NEENAH R3067V. INSTALL R3290-A FOR DRIVEWAYS AND VALLEY GUTTERS. (VANE GRATE SHOWN). INSTALL NEENAH 3067VB TWO WAY GRATE AT ALL LOW POINTS.

DIMENSION FROM BACK OF CURB TO CENTER OF PIPE.

4' DIA. MH - 9" IN FROM BACK OF CURB

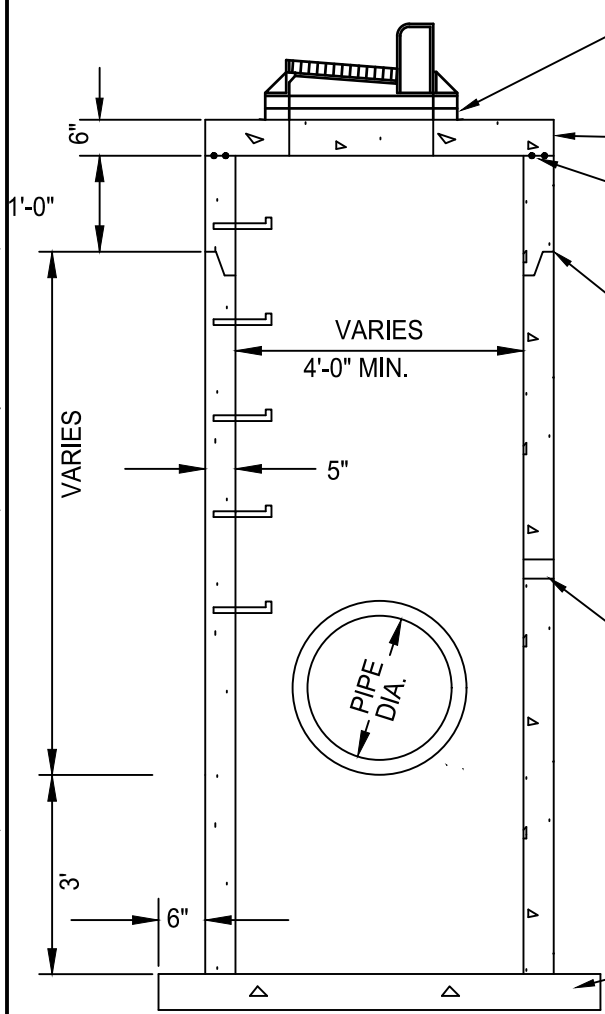
5' DIA. MH - 3" IN FROM BACK OF CURB

6' DIA. MH - 3" BEHIND BACK OF CURB

7' DIA. MH - 9" BEHIND BACK OF CURB 8' DIA. MH - 15" BEHIND BACK OF CURB

NO BLOCK STRUCTURES ALLOWED.

4" PVC DRAINTILE CONNECTION  
NO BENDS GREATER THAN 45° SHALL BE ALLOWED



MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL EXTERIOR INFI-SHIELD OR APPROVED EQUAL.

6" PRECAST REINFORCED CONCRETE SLAB.

TOP OF BARREL SECTION UNDER TOP SLAB TO HAVE FLAT TOP EDGE SEALED WITH 2 BEADS OF RAMNEK OR APPROVED EQUAL. EXTERNAL WRAP (GATOR WRAP OR APPROVED EQUAL) REQUIRED

ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKETS.

\*\*DOG HOUSES MUST BE GROUTED BOTH INSIDE AND OUTSIDE OF STRUCTURE.

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM C387.

4" PVC DRAINTILE CONNECTION.

PIPE SHALL BE CUT OUT 2" FROM INSIDE FACE OF WALL.

SUMP MANHOLE REQUIRED WHEN THERE IS A 1.5' OR GREATER DROP BETWEEN INVERTS, AND THE FIRST STRUCTURE UPSTREAM FROM PIPE OUTLET. SEE STO-6.

MINIMUM SLAB THICKNESS 6" FOR STRUCTURES 14' IN DEPTH OR LESS. INCREASE THICKNESS 1" FOR EACH 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH.

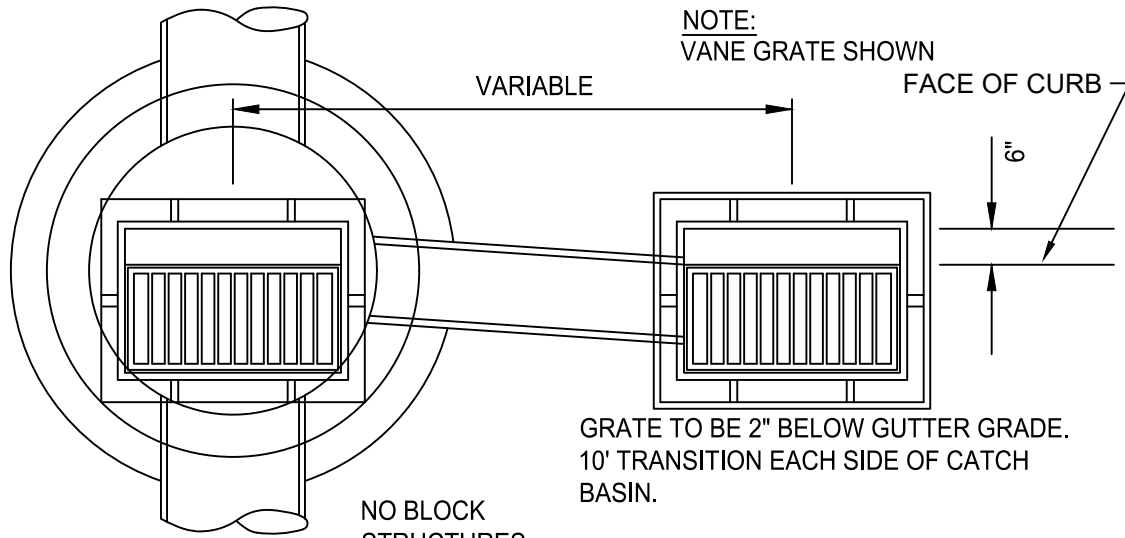
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PROJECT STANDARD PLATES

SHEET TITLE  
**CATCHBASIN  
 MANHOLE WITH SUMP**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	NPW	RWS	RWS	SCALE	2294-00	STO-6	



**PLAN**

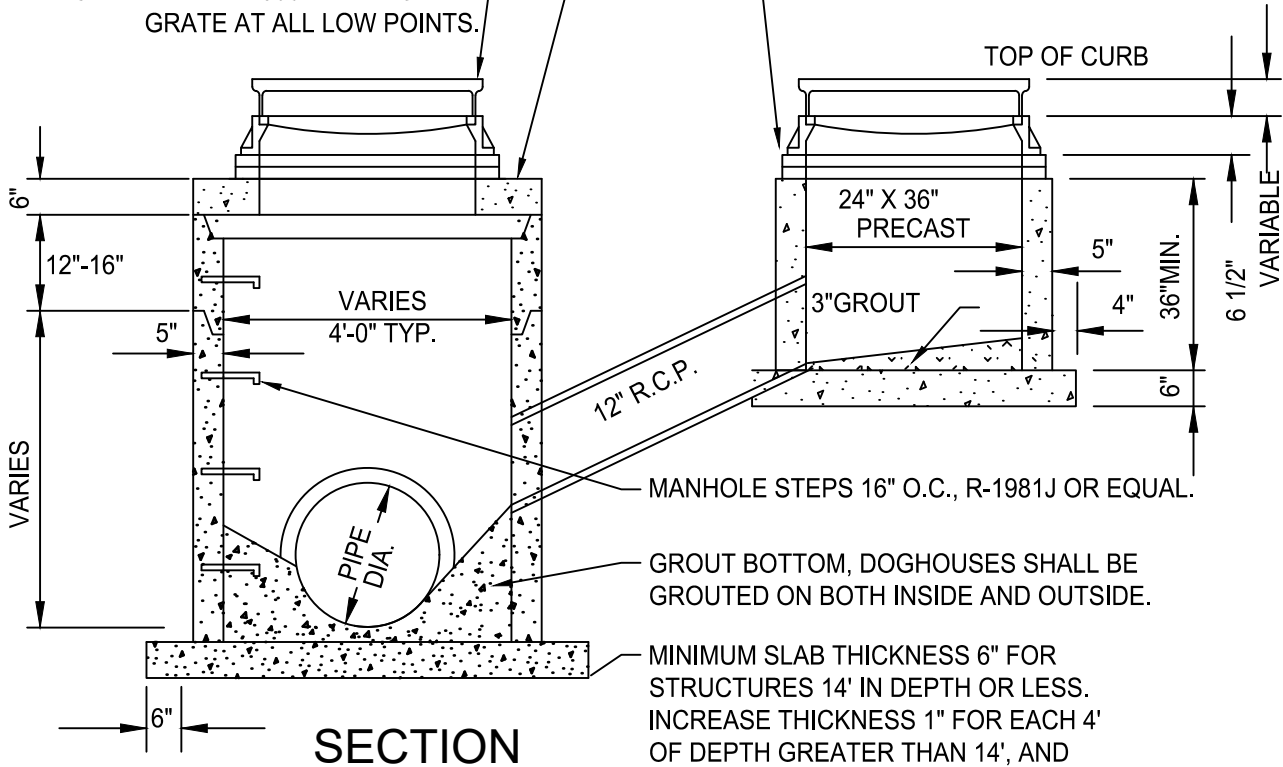
NO BLOCK STRUCTURES ALLOWED.

6" PRECAST REINFORCED CONCRETE SLAB

CATCHBASIN CASTING NEENAH R3067V OR EQUAL WITH VANE GRATE. 3" RADIUS CURB BOX. INSTALL R3290L CASTING FOR DRIVEWAYS AND VALLEY GUTTERS. INSTALL NEENAH 3067VB TWO WAY GRATE AT ALL LOW POINTS.

MIN. OF 2 MAX. OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF GROUT BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL EXTERIOR INFI-SHIELD OR APPROVED EQUAL.

MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM C387.



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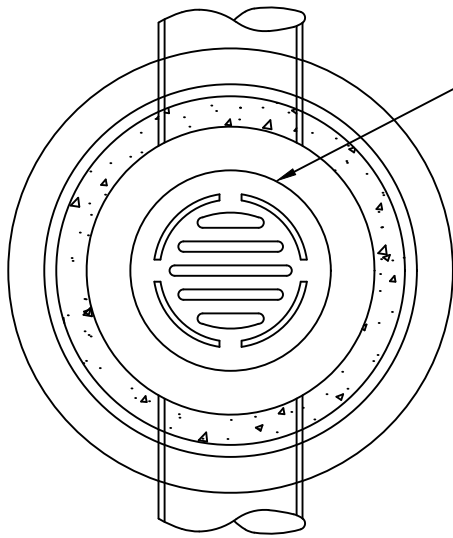
CLIENT  
CITY OF CORCORAN



PROJECT STANDARD PLATES

SHEET TITLE  
DOUBLE CATCHBASIN  
CBMH WITH CB

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	NPW	RWS	RWS	SCALE	2294-00	STO-8	



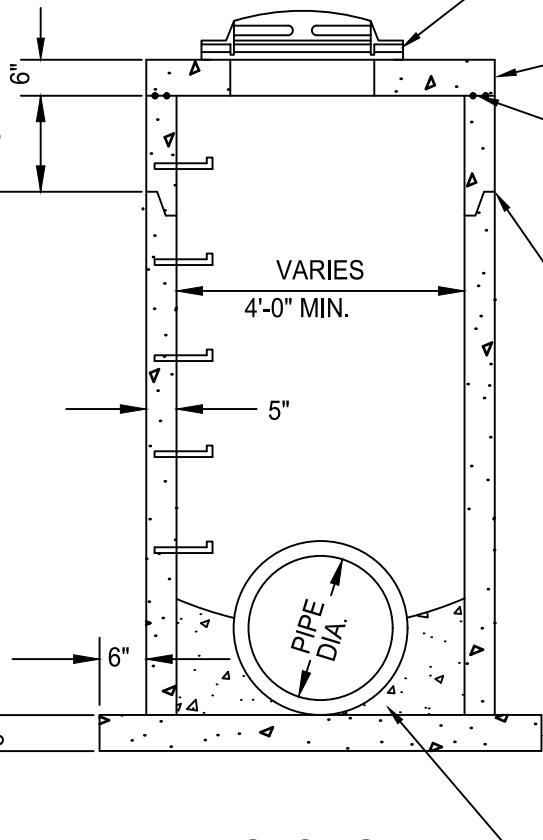
**PLAN**

NEENAH R-4342 CASTING OR EQUAL.

ONLY PLASTIC SHIMS SHALL BE ALLOWED IF NEEDED.  
MORTAR SHALL BE AIR ENTRAINED UNDERGROUND UTILITY MORTAR WHICH MEETS OR EXCEEDS ASTM C270 AND ASTM C387.

NO BLOCK STRUCTURES ALLOWED.

MINIMUM OF 2 MAXIMUM OF 5 CONCRETE ADJUSTMENT RINGS WITH FULL BED OF MORTAR BETWEEN EACH RING. 1 RING WITH MORTAR = 0.2'. INSTALL EXTERIOR INFI-SHIELD OR APPROVED EQUAL.



**SECTION**

6" PRECAST REINFORCED CONCRETE SLAB.

TOP OF BARREL SECTION UNDER TOP SLAB TO HAVE FLAT TOP EDGE SEALED WITH 2 BEADS OF RAMNEK OR APPROVED EQUAL. EXTERNAL WRAP (GATOR WRAP OR APPROVED EQUAL) REQUIRED

ALL JOINTS IN MANHOLE TO HAVE "O" RING RUBBER GASKETS.

\*\*DOG HOUSES MUST BE GROUTED BOTH INSIDE AND OUTSIDE OF STRUCTURE.

PIPE SHALL BE CUT OUT 2" FROM INSIDE FACE OF WALL.

MINIMUM SLAB THICKNESS 6" FOR STRUCTURES 14' IN DEPTH OR LESS. INCREASE THICKNESS 1" FOR EACH 4' OF DEPTH GREATER THAN 14', AND REINFORCE WITH 6"X6" 10/10 MESH.

GROUT BOTTOM



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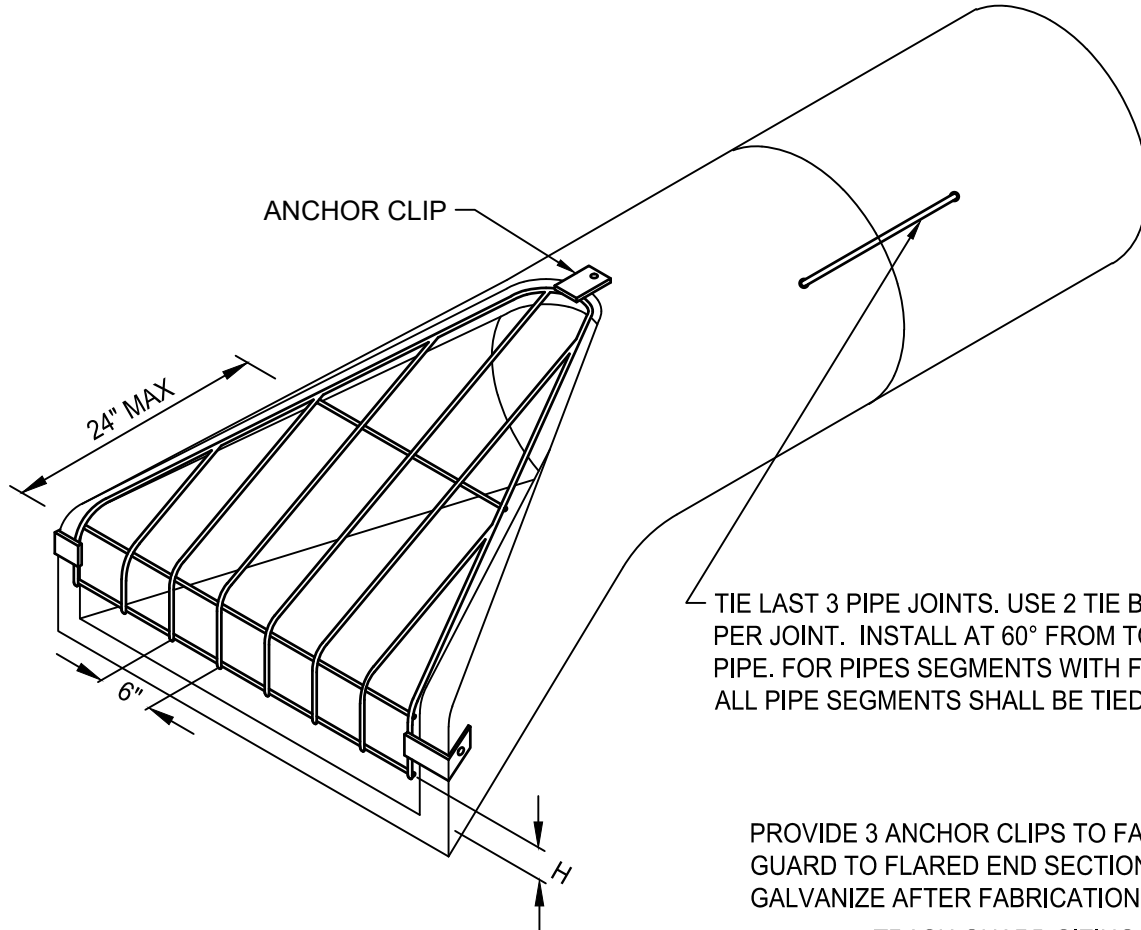


PROJECT STANDARD PLATES

SHEET TITLE  
**CATCHBASIN MANHOLE**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2019	NPW	RWS	RWS	SCALE	2294-00	STO-9	

SEE CITY PLATE NO. STO-11 FOR RIPRAP PLACEMENT.



TIE LAST 3 PIPE JOINTS. USE 2 TIE BOLT FASTENERS PER JOINT. INSTALL AT 60° FROM TOP OR BOTTOM OF PIPE. FOR PIPES SEGMENTS WITH FES ON BOTH ENDS, ALL PIPE SEGMENTS SHALL BE TIED

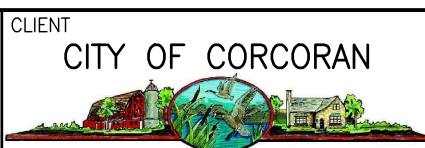
PROVIDE 3 ANCHOR CLIPS TO FASTEN TRASH GUARD TO FLARED END SECTION. HOT DIP GALVANIZE AFTER FABRICATION.

ISOMETRIC

TRASH GUARD SIZING			
PIPE SIZE	BAR	'H'	BOLTS
12"	3/4"Ø	2 1/2"	5/8"
15"	3/4"Ø	3"	5/8"
18"	3/4"Ø	4"	5/8"
21"-24"	1"Ø	4"	3/4"
27"-36"	1"Ø	5"	3/4"
42"	1"Ø	6"	3/4"
48"-54"	1 1/4"Ø	6"	1"
60"-72"	1 1/4"Ø	7"	1"
78"-90"	1 1/4"Ø	8"	1"

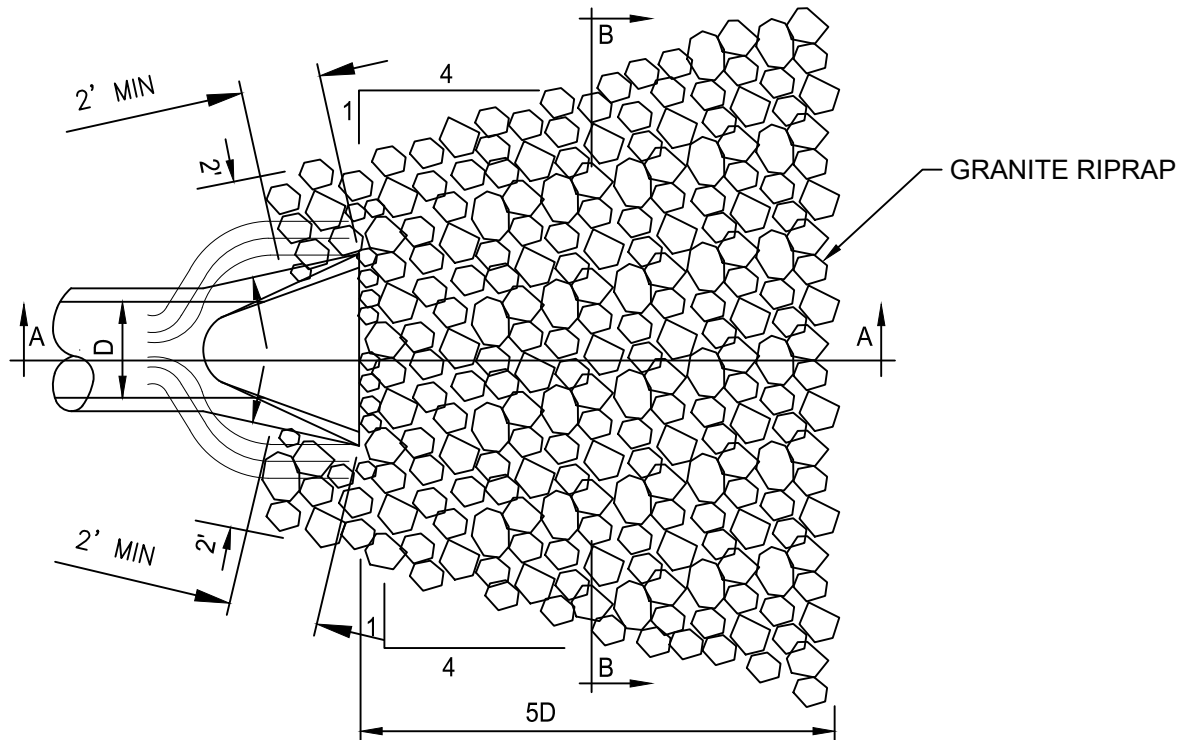


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CLIENT	CITY OF CORCORAN	PROJECT	STANDARD PLATES
SHEET TITLE	FLARED END SECTION AND TRASH GUARD		

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2016	SKH	RWS	RWS	SCALE	2294-00	STO-10	

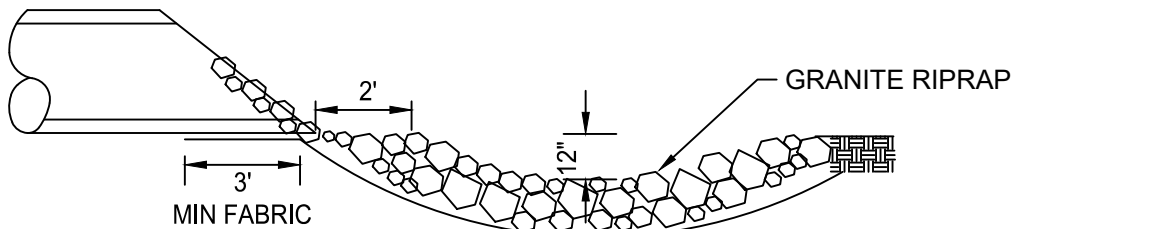


**PLAN**

**RIPRAP REQUIREMENTS**

12" TO 18"	8-10 CUBIC YARDS CL.3
21" TO 27"	12-14 CUBIC YARDS CL.3
30" TO 36"	16-24 CUBIC YARDS CL.3
42" TO 48"	30-38 CUBIC YARDS CL.3
54" AND UP	62&UP CUBIC YARDS CL.4

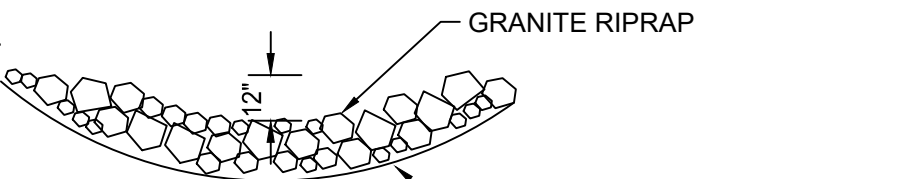
(ONE CUBIC YARD IS APPROXIMATELY 2,800 LBS.)



**SECTION A-A**

**NOTES:**

1. FILTER BLANKET REQUIRED UNDER RIPRAP OR 2 LAYERS OF 500X MIRAFI FABRIC OR EQUAL.
2. ONLY GRANITE RIPRAP TO BE USED AT OUTLETS.
3. GRADE A SWALE ADJACENT TO BOTH SIDES OF PIPE TO DIRECT WATER AWAY FROM FES.



**SECTION B-B**



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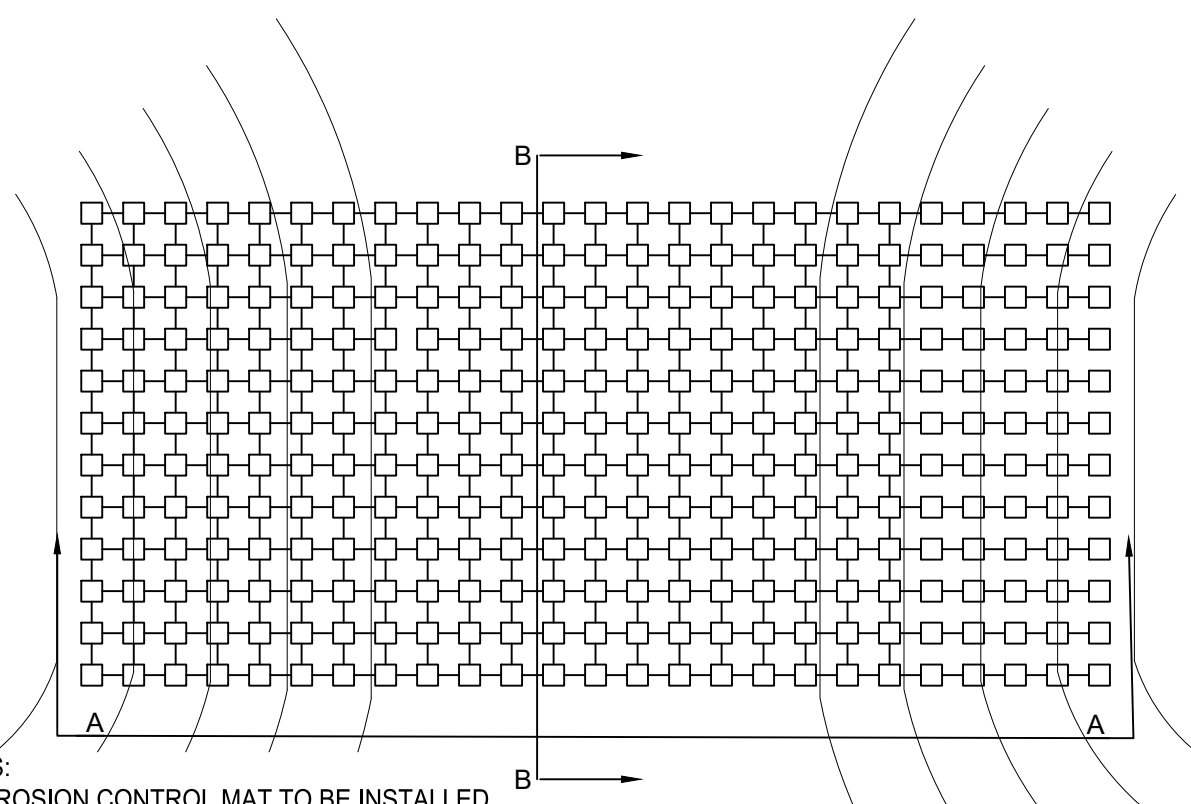
CLIENT  
**CITY OF CORCORAN**



PROJECT  
 STANDARD PLATES

SHEET TITLE  
**RIPRAP AT OUTLETS**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2017	NPW	RWS	RWS	SCALE	2294-00	STO-11	

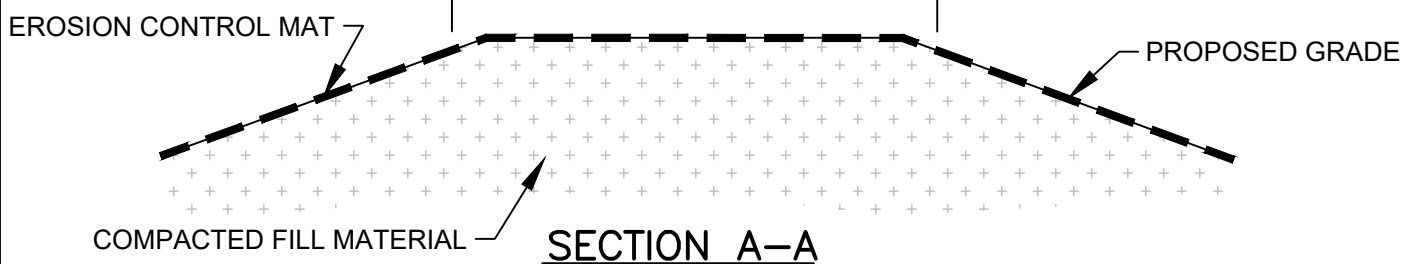


**NOTES:**

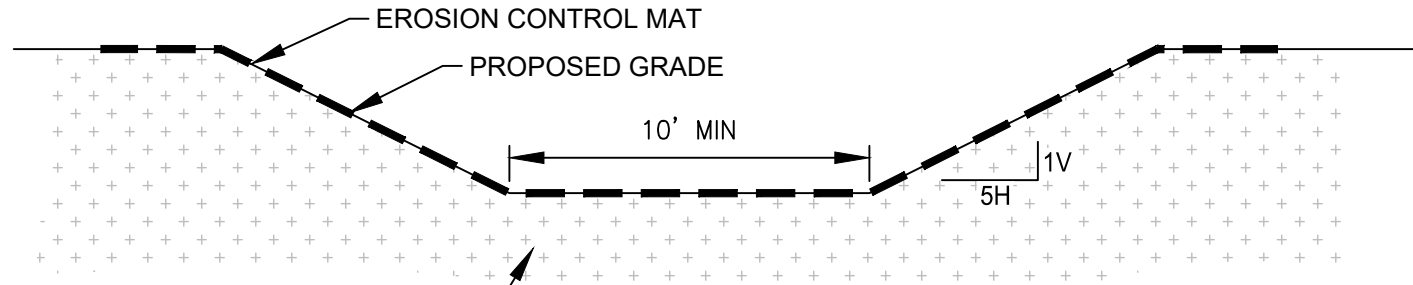
1. EROSION CONTROL MAT TO BE INSTALLED TO WATER LEVEL ON INLET SIDE AND DISCHARGE ELEVATION ON OUTLET SIDE.
2. EROSION CONTROL MAT TO BE SLOPETAME2 BY INVISIBLE STRUCTURES OR CITY APPROVED EQUAL

**PLAN**

10' MIN



**SECTION A-A**



**SECTION B-B**

**WENCK ASSOCIATES**  
 Responsive partner. Exceptional outcomes.  
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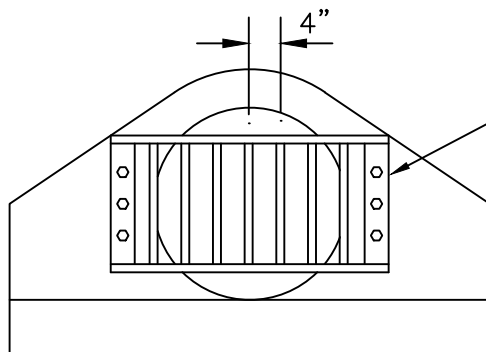
CLIENT  
**CITY OF CORCORAN**

PROJECT **STANDARD PLATES**

SHEET TITLE **TYPICAL POND EOF**

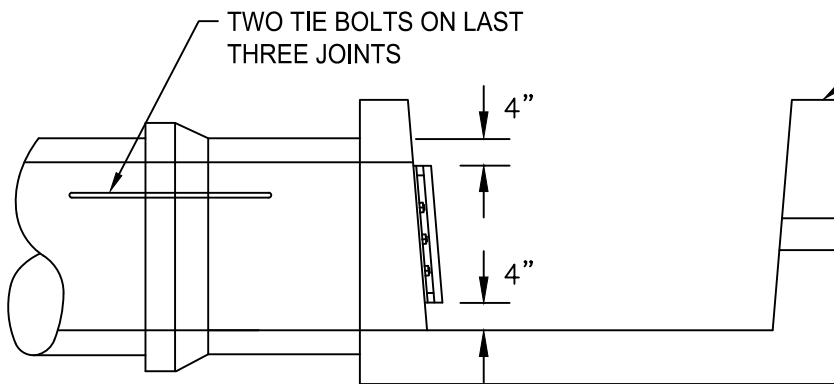
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			JAN 2019	NPW	RWS	RWS	SCALE	2294-00	STO-12	





STEEL PLATE - BOLT TO CONCRETE WITH STAINLESS STEEL BOLTS. HOT DIP GALVANIZE AFTER FABRICATION.

**FRONT VIEW**



TWO TIE BOLTS ON LAST THREE JOINTS

ENERGY DISSIPATOR: SEE MNDOT STANDARD PLATE NO. 5200B

**SIDE VIEW**

SIZE OF PIPE	SIZE OF PLATE	BARS	BOLTS
12" TO 18"	1/4"X2"	3/4"Ø	2-5/8"Ø
21" TO 48"	1/4"X3"	1"Ø	3-3/4"Ø

**NOTE:**

TIE LAST 3 JOINTS. USE 2 TIE BOLT FASTENERS PER JOINT INSTALLED AT 60° FROM TOP OR BOTTOM OF PIPE.



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CLIENT

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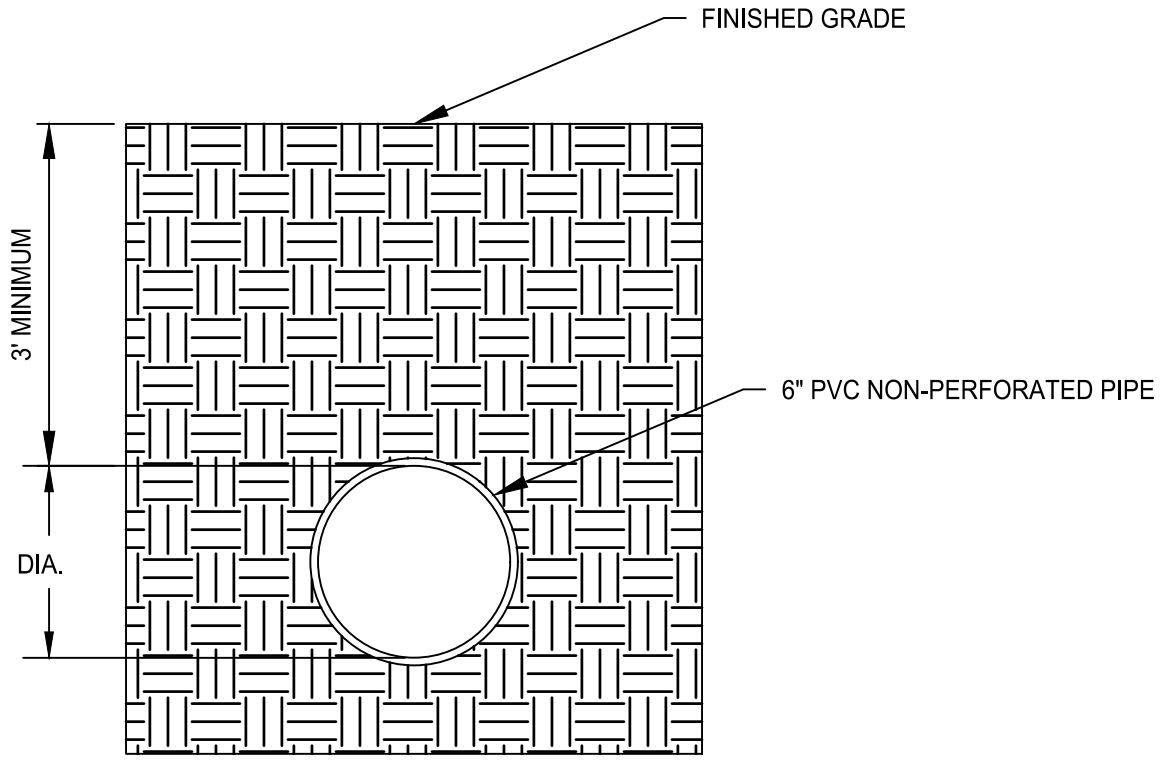
PROJECT

STANDARD PLATES

SHEET TITLE



ENERGY DISSIPATOR AND TRASH GUARD

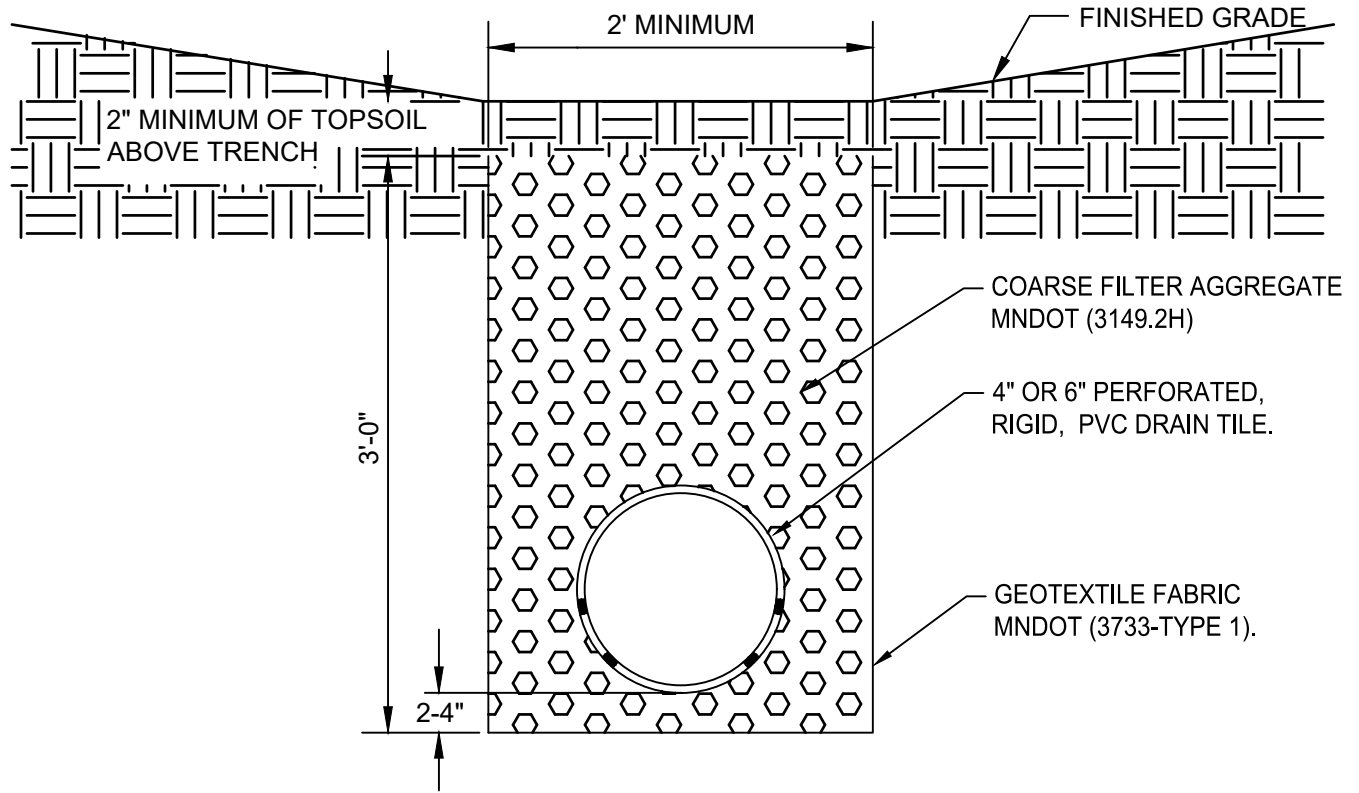
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			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	STO-13	



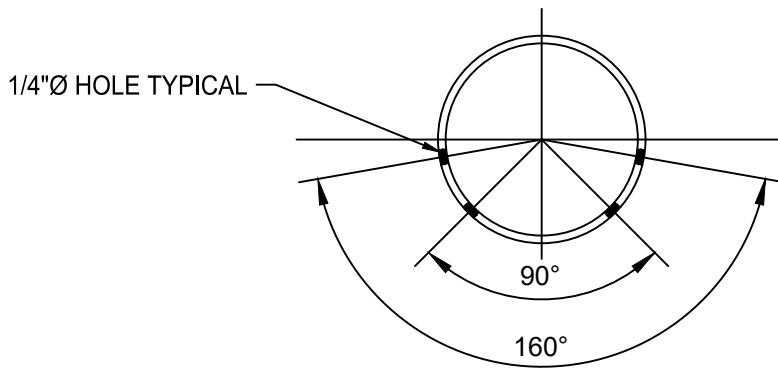
**TRENCH DETAIL**

- NOTES:**
1. MIN COVER OF 3' TO TOP OF DRAINTILE FROM FINISH GRADE
  2. DRAINAGE SWALES THAT HAVE LESS THAN 2% SLOPE SHALL USE DETAIL STO-14A

 <p>Responsive partner. Exceptional outcomes.</p> <p><small>1800 PIONEER CREEK CENTER 763-479-4200 MAPLE PLAIN, MN 55359 763-479-4242 Web Site: www.wenck.com</small></p>				<p>CLIENT <b>CITY OF CORCORAN</b></p> 				<p>PROJECT STANDARD PLATES</p>			
				<p>SHEET TITLE <b>BACKYARD DRAINAGE SUMP CONNECTION</b></p>							
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
			MAR 2016	NPW	RWS	RWS	SCALE	2294-00	STO-14		



TRENCH DETAIL



PIPE DETAIL

**NOTE:**

1. FABRIC TO BE WRAPPED ON THE SIDES AND UNDER THE FILTER AGGREGATE. DO NOT WRAP FABRIC.
2. PLACE HOLES UP WHEN SUMP PUMP LATERALS ARE PRESENT.



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**CITY OF CORCORAN**



PROJECT **STANDARD PLATES**

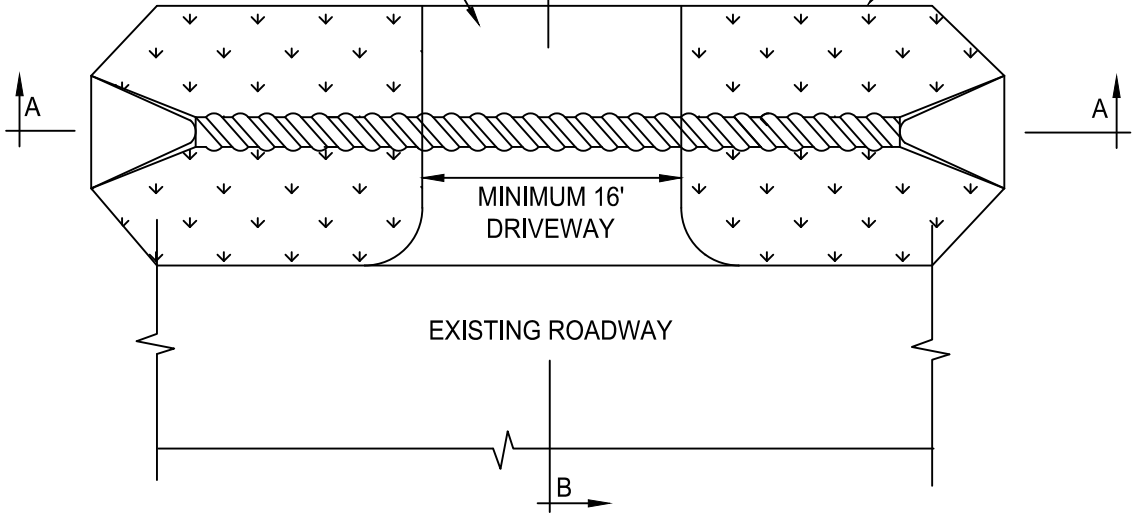
SHEET TITLE **PERFORATED DRAINTILE SWALE INSTALLATION**

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			FEB 2017	NPW	RWS	RWS	SCALE	2294-00	STO-14A	

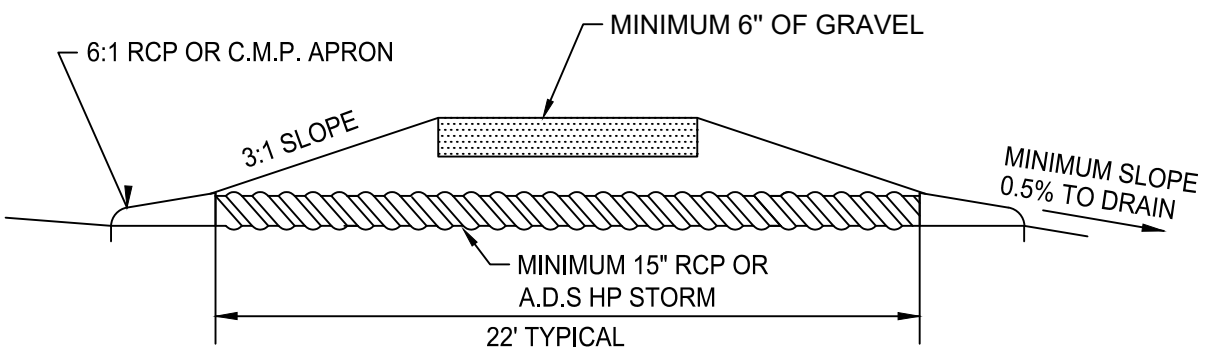
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BITUMINOUS OR GRAVEL TO MATCH SURFACE OF EXISTING ROADWAY REQUIRED TO RIGHT OF WAY LINE

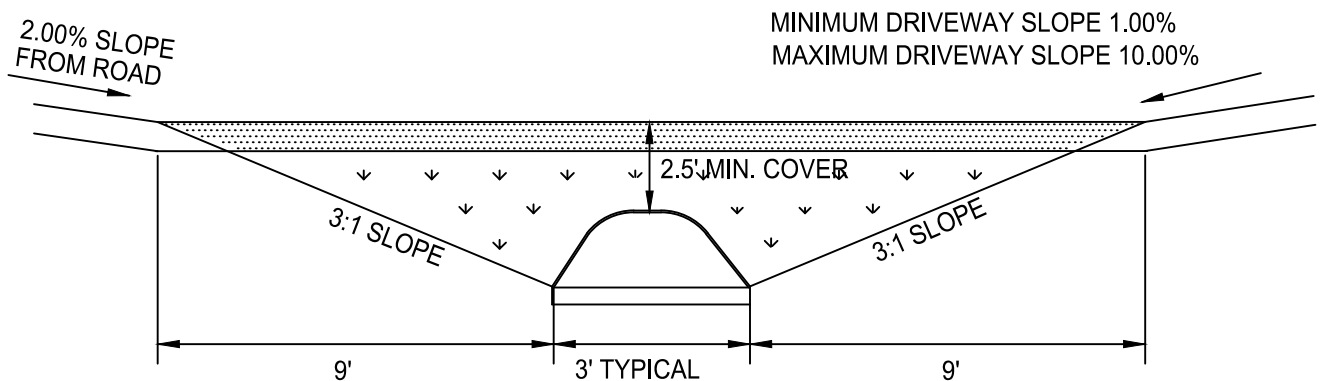
RIGHT OF WAY LINE



**PLAN**



**SECTION A-A**



**SECTION B-B**

**WENCK ASSOCIATES**

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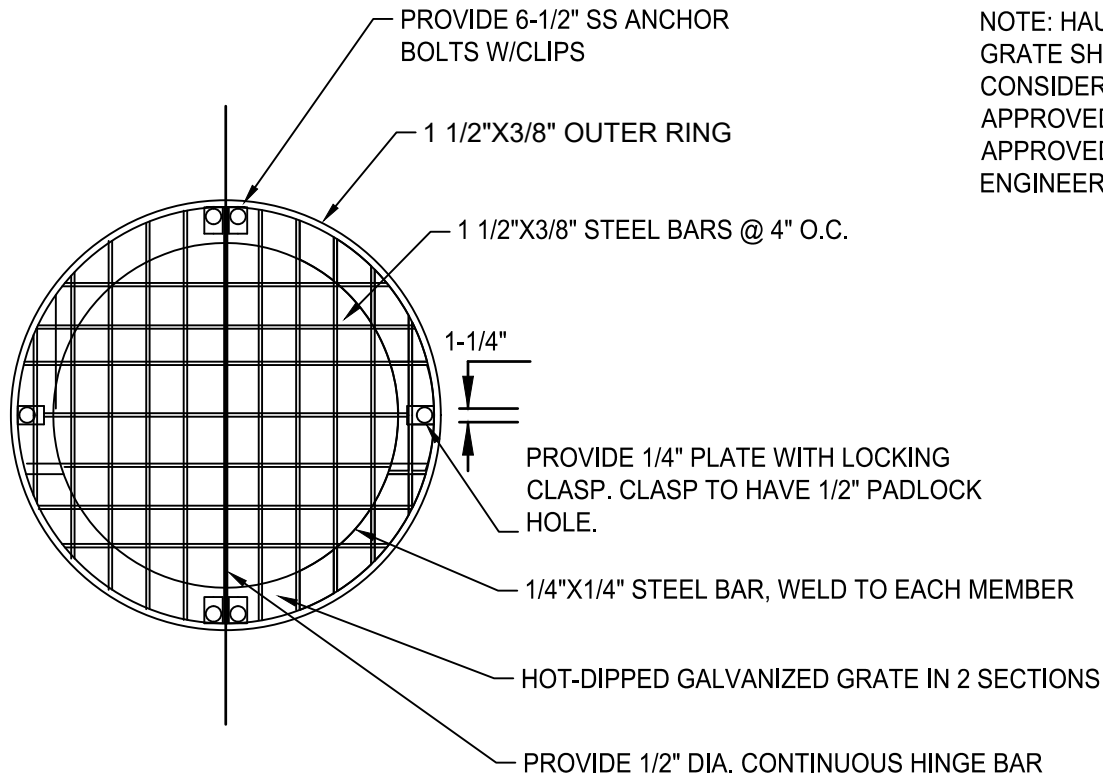
CLIENT  
**CITY OF CORCORAN**

PROJECT **STANDARD PLATES**

SHEET TITLE **RURAL RESIDENTIAL DRIVEWAY**

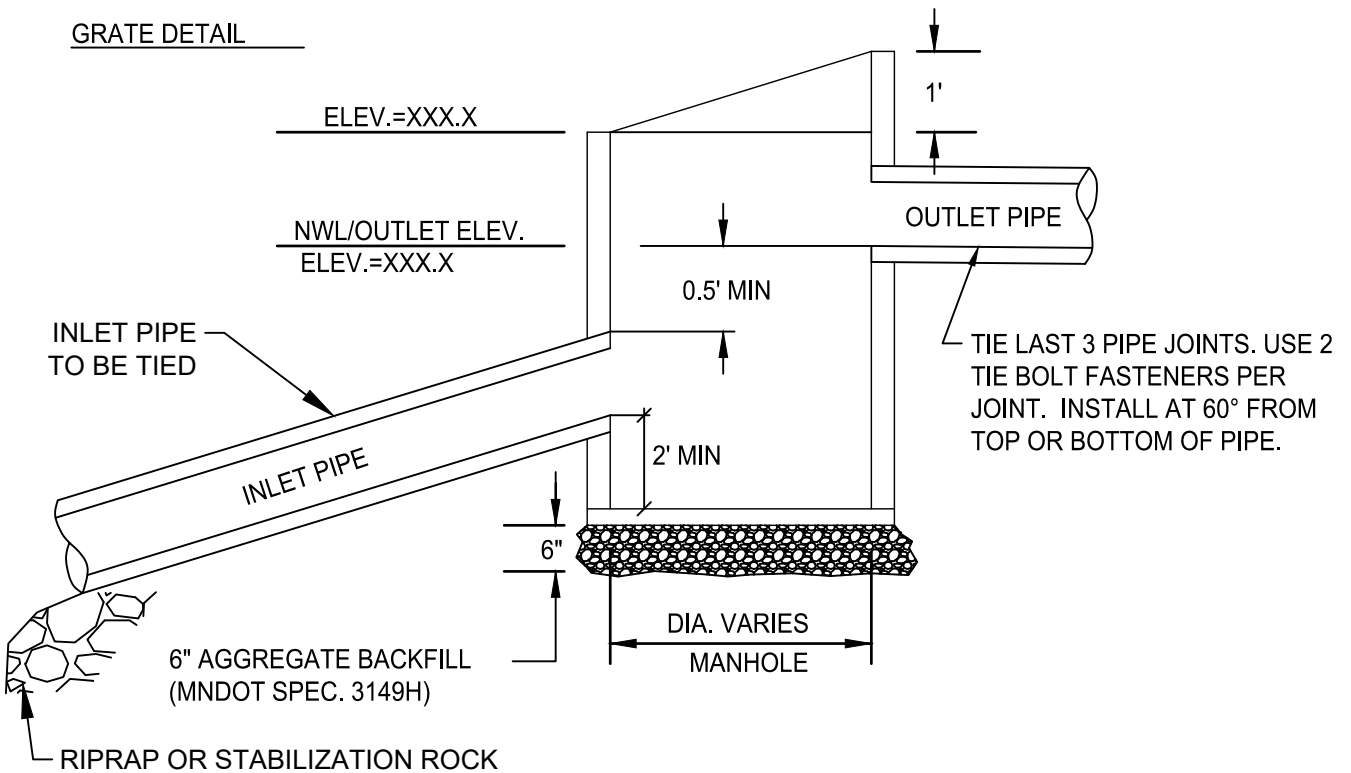
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			FEB 2017	NPW	RWS	RWS	SCALE	2294-00	STO-15	

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NOTE: HAULA FLAT GRATE SHALL BE CONSIDERED APPROVED EQUAL IF APPROVED BY CITY ENGINEER.

GRATE DETAIL



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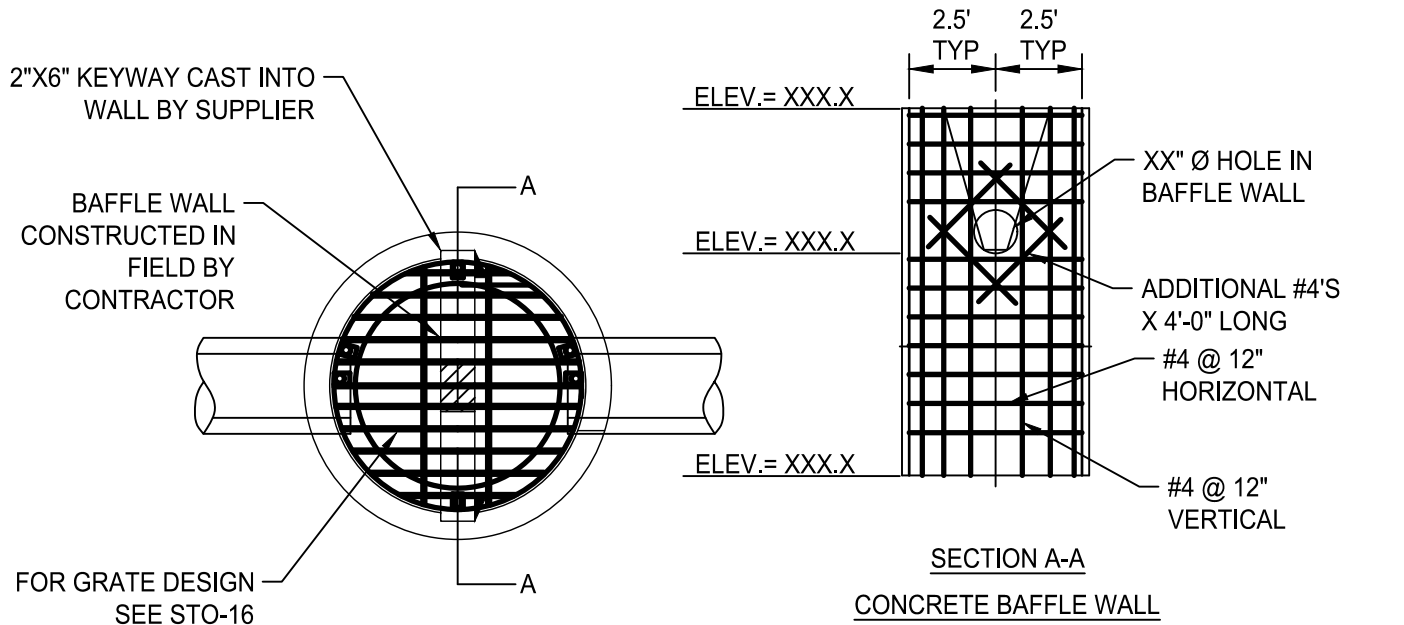


PROJECT  
 STANDARD PLATES

SHEET TITLE  
**STORM SEWER  
 SKIMMER STRUCTURE**

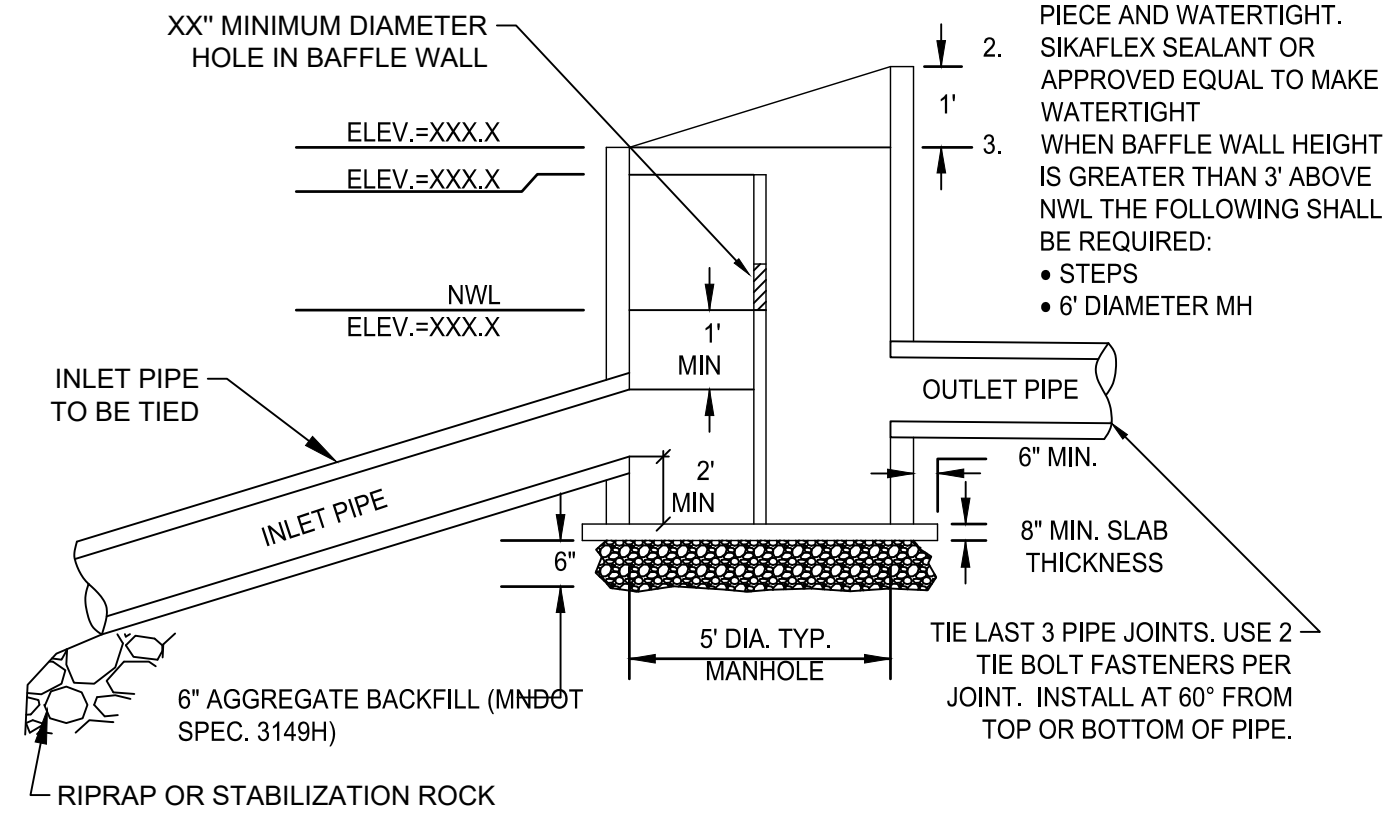
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			JAN 2021	NPW	RWS	RWS	SCALE	2294-00	STO-16	

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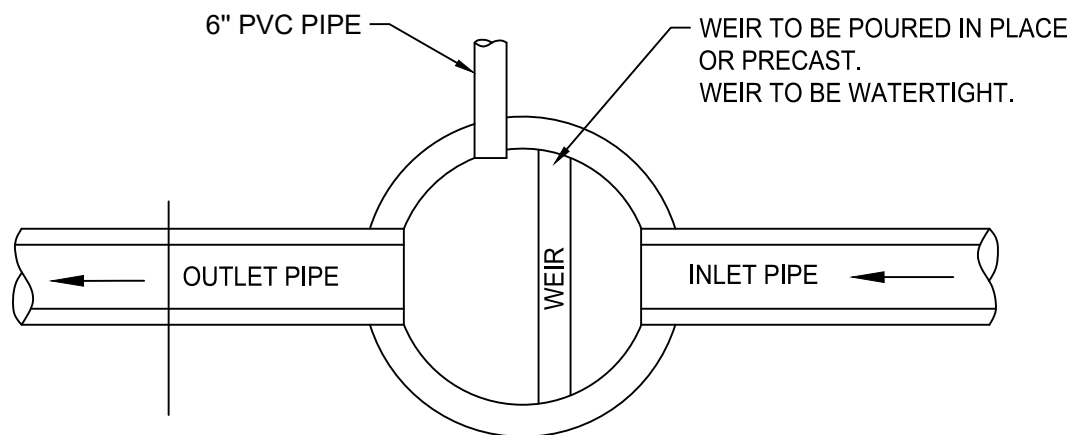


WHEN FEASIBLE, SET INVERT FOR OUTLET PIPE BELOW NWL TO IMPROVE PIPE COVER AND MINIMIZE SLOPE AROUND SKIMMER

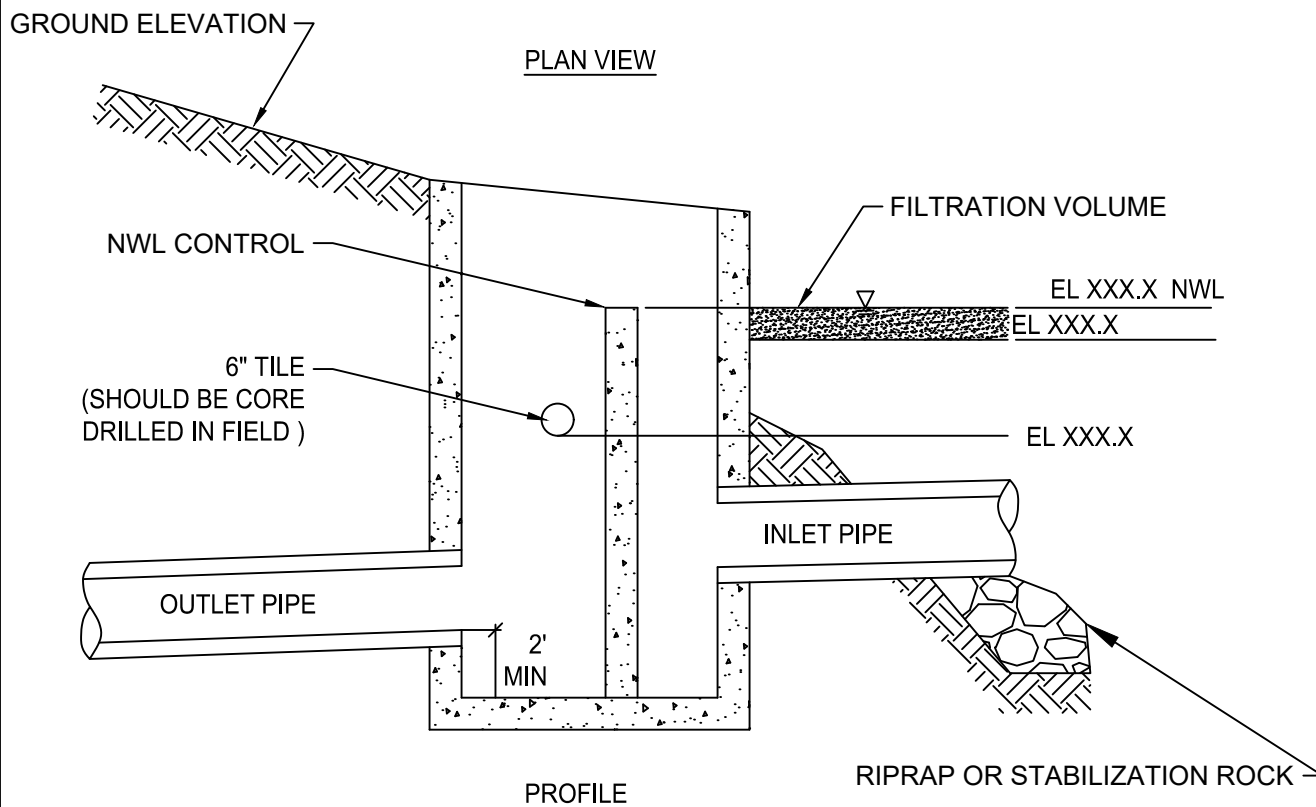
- NOTE:**
1. BAFFLE WALL TO BE SINGLE PIECE AND WATERTIGHT.
  2. SIKAFLEX SEALANT OR APPROVED EQUAL TO MAKE WATERTIGHT
  3. WHEN BAFFLE WALL HEIGHT IS GREATER THAN 3' ABOVE NWL THE FOLLOWING SHALL BE REQUIRED:
    - STEPS
    - 6' DIAMETER MH



<p>Responsive partner. Exceptional outcomes.</p> <p>1800 PIONEER CREEK CENTER 763-479-4200          MAPLE PLAIN, MN 55359 763-479-4242          Web Site: www.wenck.com</p>		<p>CLIENT</p> <p>CITY OF CORCORAN</p>		<p>PROJECT</p> <p>STANDARD PLATES</p>	
<p>REV</p> <p>DWN</p> <p>APP</p> <p>REV DATE</p> <p>DWN BY</p> <p>CHK'D</p> <p>APP'D</p> <p>DWG DATE</p> <p>SCALE</p>		<p>SHEET TITLE</p> <p>SKIMMER STRUCTURE WITH CONCRETE BAFFLE WALL</p>		<p>PROJECT NO.</p> <p>2294-00</p>	
<p>JAN 2021</p> <p>NPW</p> <p>RWS</p> <p>RWS</p>		<p>REV NO.</p> <p>STO-17</p>		<p>SHEET NO.</p>	



PLAN VIEW



PROFILE

NOTE:  
 TILE CAN DAYLIGHT SEPARATELY FROM OUTLET STRUCTURE.  
 TILE MUST BE ABOVE THE TOP OF OUTLET PIPE AND APPROXIMATELY 1 FOOT BELOW ELEVATION OF TILE IN THE TRENCH.  
 INLET PIPE SHALL BE TIED AT ALL JOINTS AND ATTACHED TO THE STRUCTURE.



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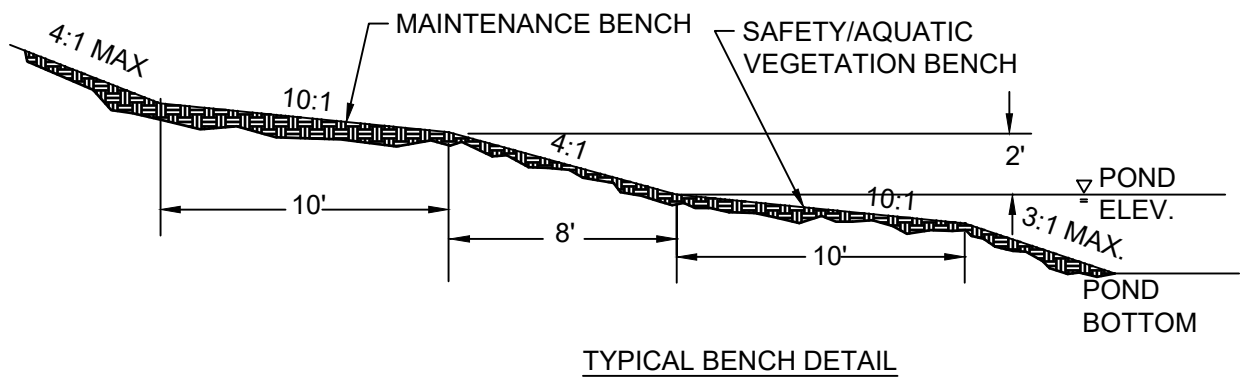
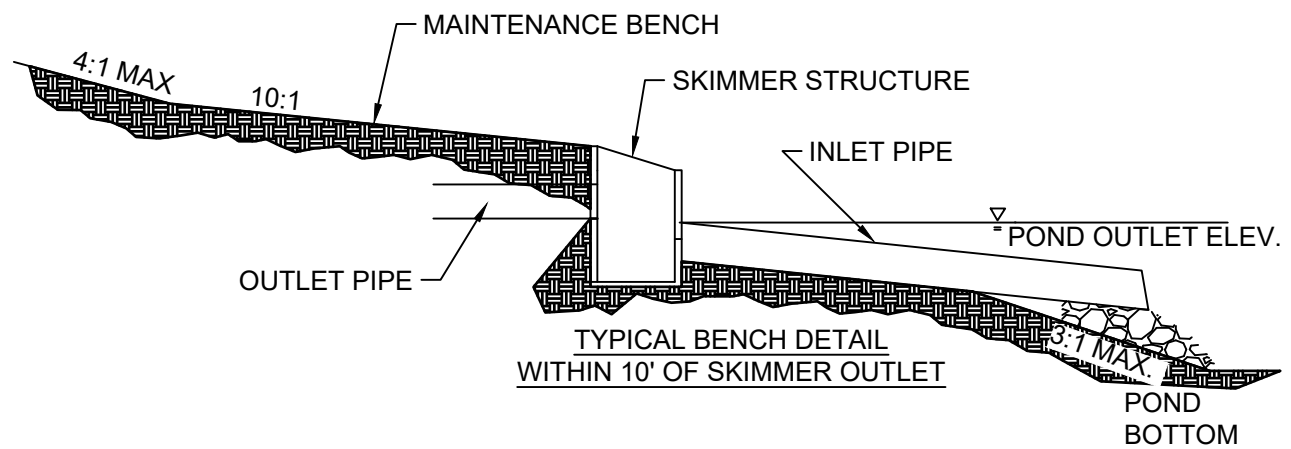
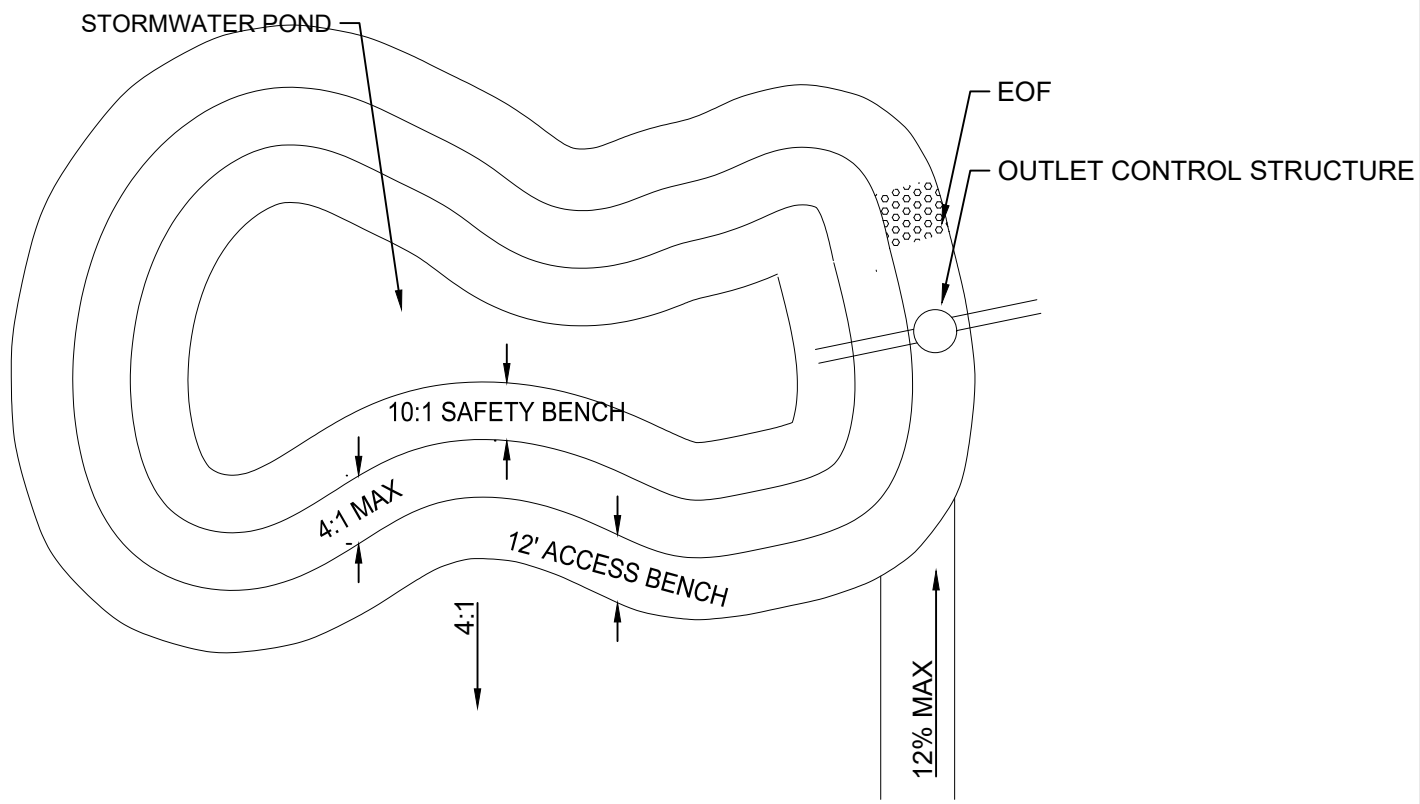
CLIENT  
 CITY OF CORCORAN



PROJECT STANDARD PLATES

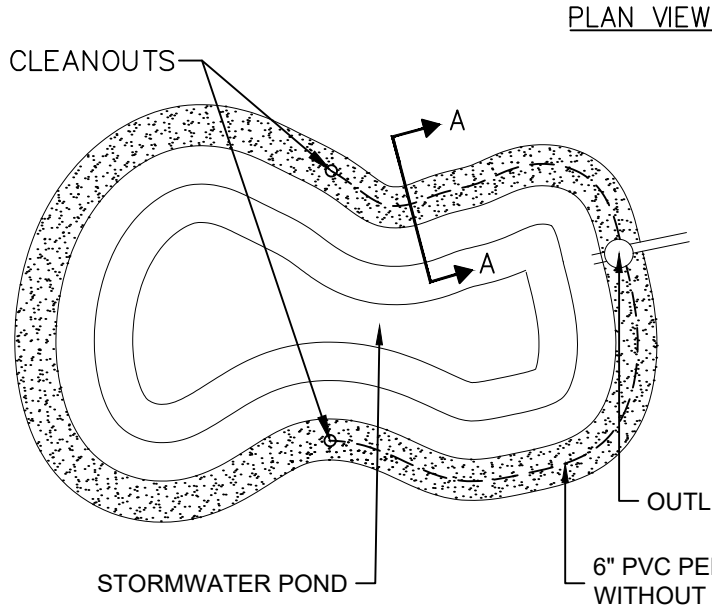
SHEET TITLE  
 TYPICAL BENCH

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
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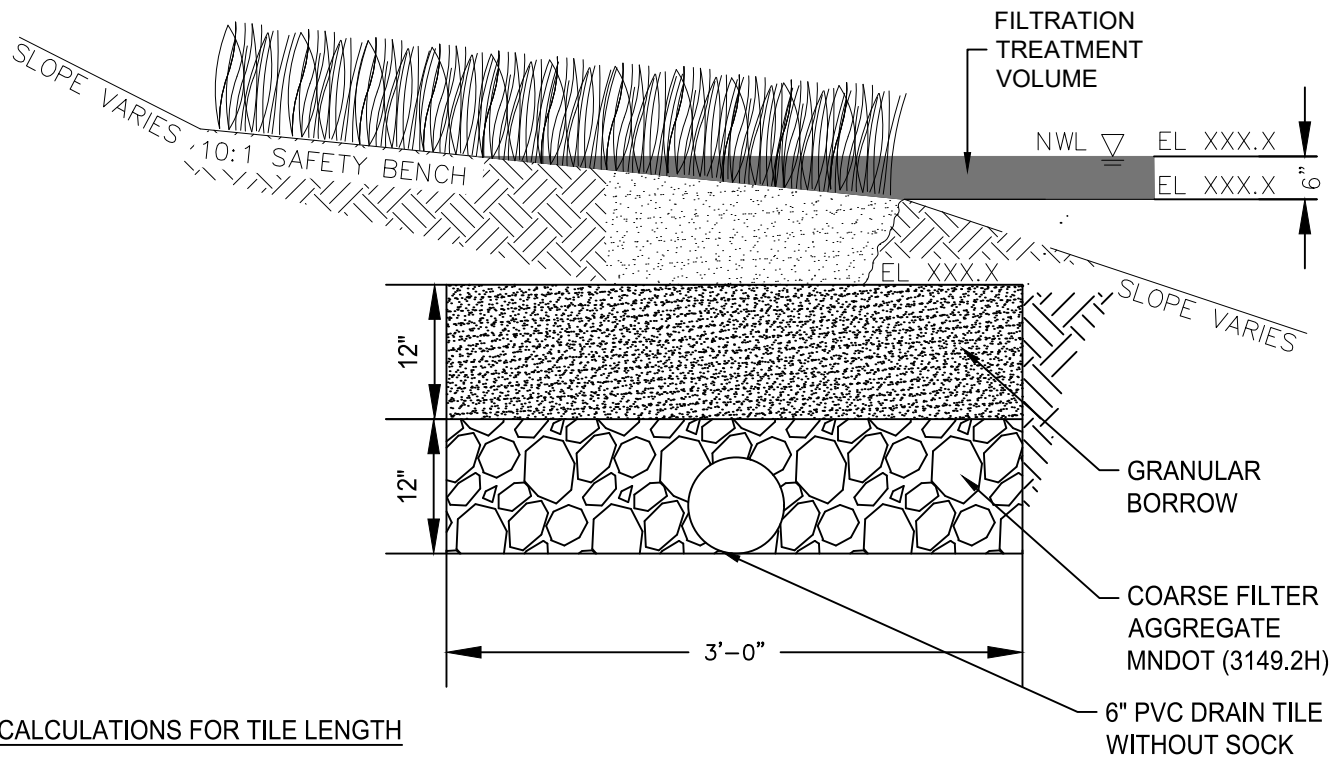


<p>Responsive partner. Exceptional outcomes.</p> <p>1800 PIONEER CREEK CENTER 763-479-4200 MAPLE PLAIN, MN 55359 763-479-4242 Web Site: www.wenck.com</p>		CLIENT				PROJECT STANDARD PLATES				
		SHEET TITLE				TYPICAL MAINTENANCE BENCH				
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2018	NPW	RWS	RWS	SCALE	2294-00	STO-18A	





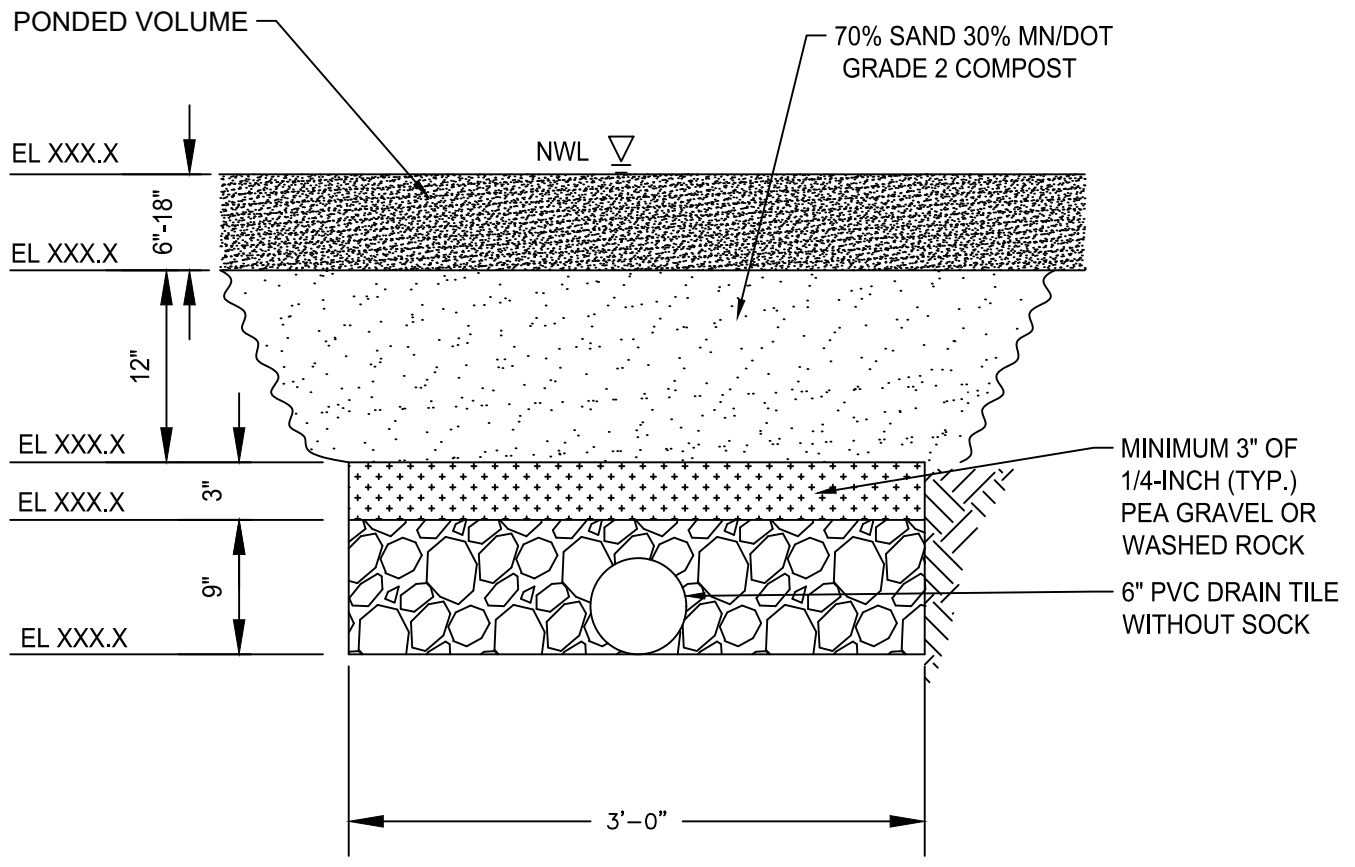
**SECTION A - A**



**CALCULATIONS FOR TILE LENGTH**

TO DETERMINE THE AREA(SF) OF TRENCH NEEDED, DIVIDE THE PONDED VOLUME (CF) BY 17 CF/SF. (5,000 CF / 17 CF/SF = 294 SF TRENCH / 3 FT = 98 LF OF TRENCH)

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				SHEET TITLE <b>TYPICAL FILTRATION TRENCH</b>						
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	STO-19	



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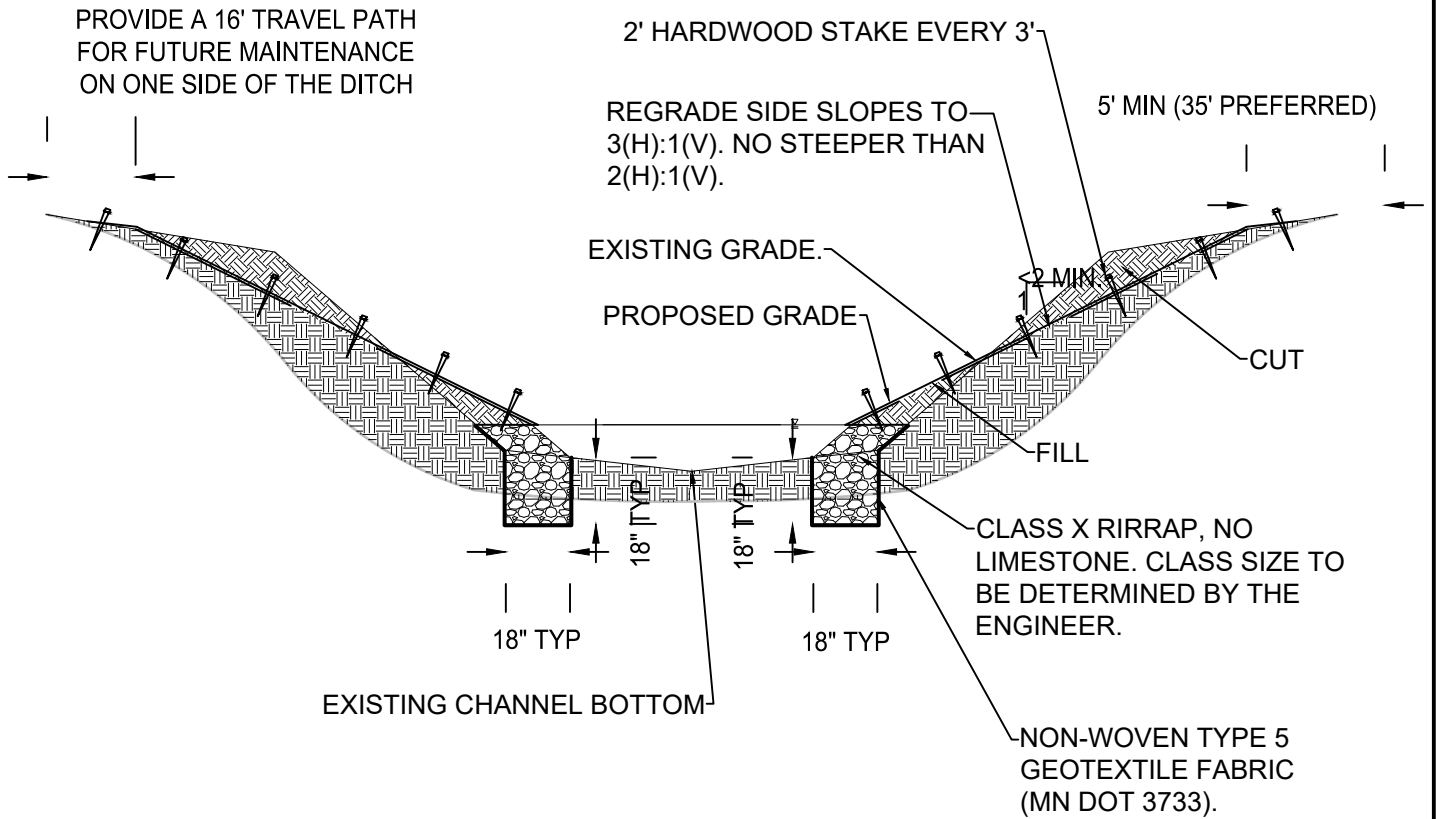
PROJECT **STANDARD PLATES**

SHEET TITLE **TYPICAL FILTRATION BASIN**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2020	NPW	RWS	RWS	SCALE	2294-00	STO-20	

ON BOTH SIDES, THIN TREES FROM TOP OF REGRADED BANK TO 5' MINIMUM (35' PREFERRED) SETBACK TO ALLOW SUNLIGHT TO REACH THE GROUND.

KEEP TREE DENSITY TO ONE TREE EVERY 30' TO 50' APART TO RE-ESTABLISH NATIVE GRASS GROUND COVER.



PROVIDE A 16' TRAVEL PATH FOR FUTURE MAINTENANCE ON ONE SIDE OF THE DITCH

2' HARDWOOD STAKE EVERY 3'

REGRADE SIDE SLOPES TO 3(H):1(V). NO STEEPER THAN 2(H):1(V).

5' MIN (35' PREFERRED)

EXISTING GRADE.

PROPOSED GRADE.

2' MIN

CUT

FILL

CLASS X RIRRAP, NO LIMESTONE. CLASS SIZE TO BE DETERMINED BY THE ENGINEER.

18" TYP

18" TYP

EXISTING CHANNEL BOTTOM

NON-WOVEN TYPE 5 GEOTEXTILE FABRIC (MN DOT 3733).



Responsive partner. Exceptional outcomes.

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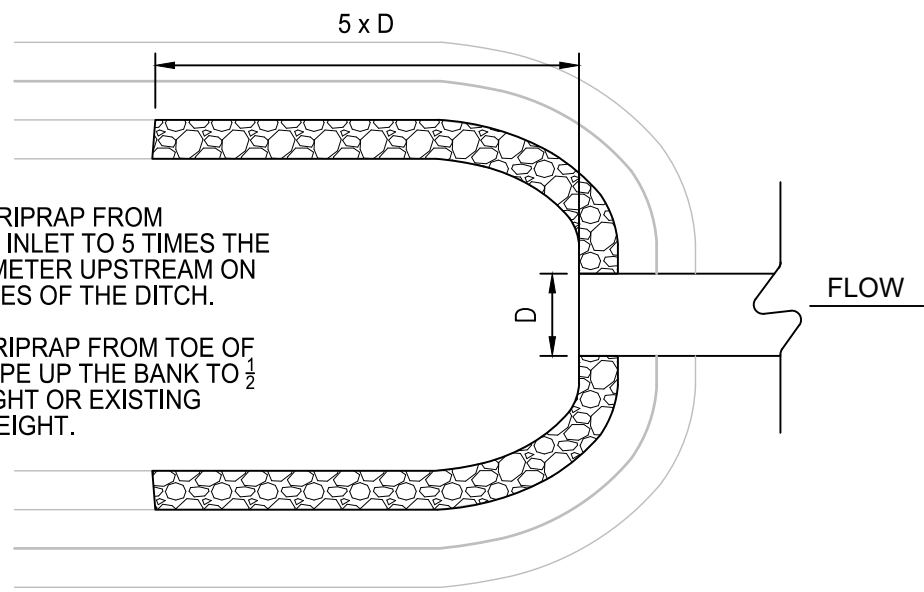
PROJECT STANDARD PLATES

SHEET TITLE  
DITCH STABILIZATION

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	STO-21	

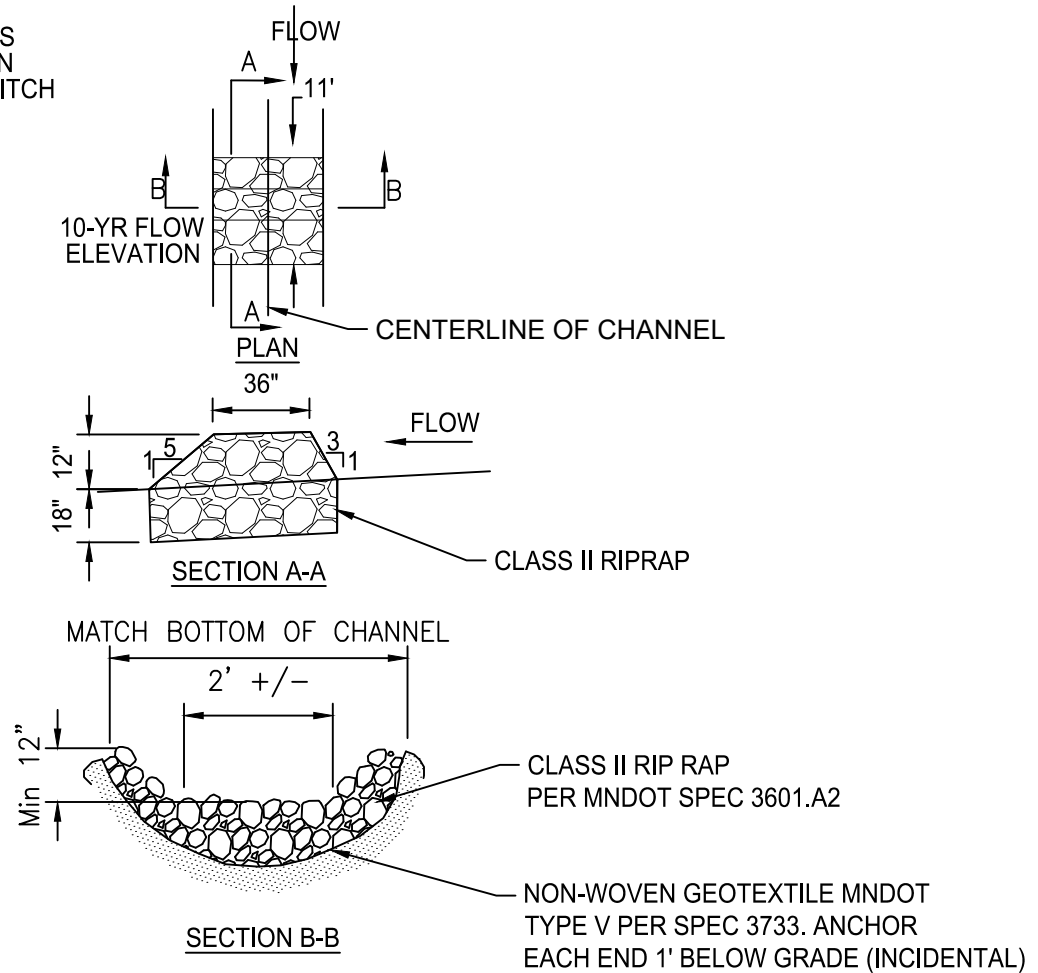
NOTES:

1. CLASS X RIPRAP FROM CULVERT INLET TO 5 TIMES THE PIPE DIAMETER UPSTREAM ON BOTH SIDES OF THE DITCH.
2. EXTEND RIPRAP FROM TOE OF SIDE SLOPE UP THE BANK TO  $\frac{1}{2}$  PIPE HEIGHT OR EXISTING BENCH HEIGHT.



NOTES:

1. INSTALL ROCK GRADE CONTROL STRUCTURES EVERY 1' OF ELEVATION CHANGE ALONG THE DITCH PROFILE CENTER LINE. ROCK SIZE TO BE DETERMINED BY THE ENGINEER.

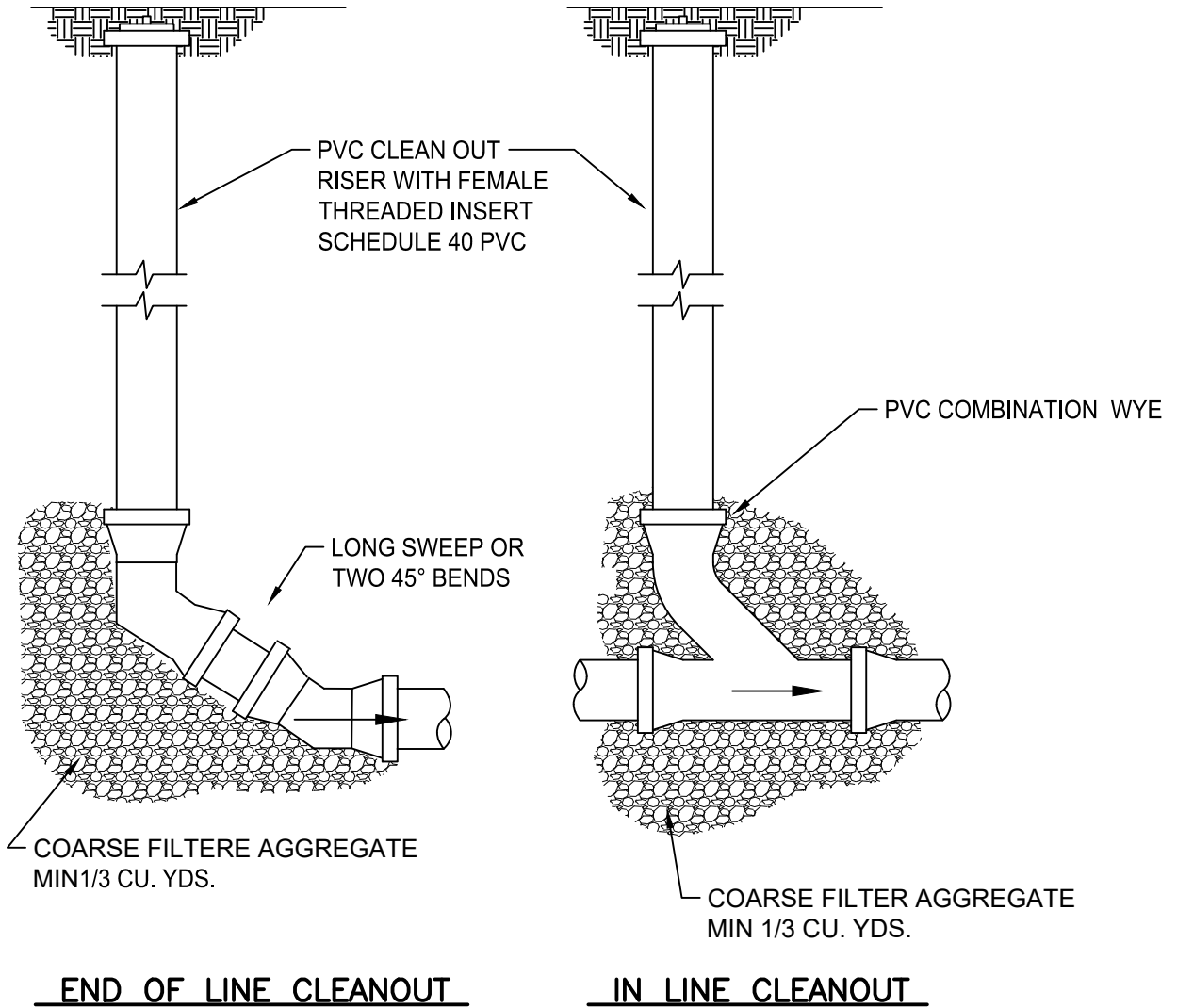


<p>Responsive partner. Exceptional outcomes. 1800 PIONEER CREEK CENTER 763-479-4200 MAPLE PLAIN, MN 55359 763-479-4242 Web Site: www.wenck.com</p>				<p>CLIENT <b>CITY OF CORCORAN</b></p>				<p>PROJECT STANDARD PLATES</p>			
				<p>SHEET TITLE <b>RIP RAP AND GRADE CONTROL</b></p>							
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	STO-22		

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NOTE:  
CLEANOUT CAP SHALL BE  
THREADED MALLEABLE IRON  
(GALVANIZED)

NOTE:  
ENCLOSE LONG SWEEP BEND  
OR COMBINATION WYE IN  
CONCRETE AS SHOWN.



- NOTE:
1. CLEANOUTS ARE REQUIRED AT A MAXIMUM 200 FOOT INTERVALS, AT BENDS, AND AT THE END OF THE RUN. IF CLEANOUT IS LOCATED WITHIN 50' OF CATCHBASIN TIE DRAINTILE INTO CATCHBASIN.
  2. CLEANOUTS TO BE INSTALLED AT PROPERTY CORNERS.
  3. ADDITIONAL CLEANOUTS TO BE INSTALLED AS DIRECTED BY ENGINEER



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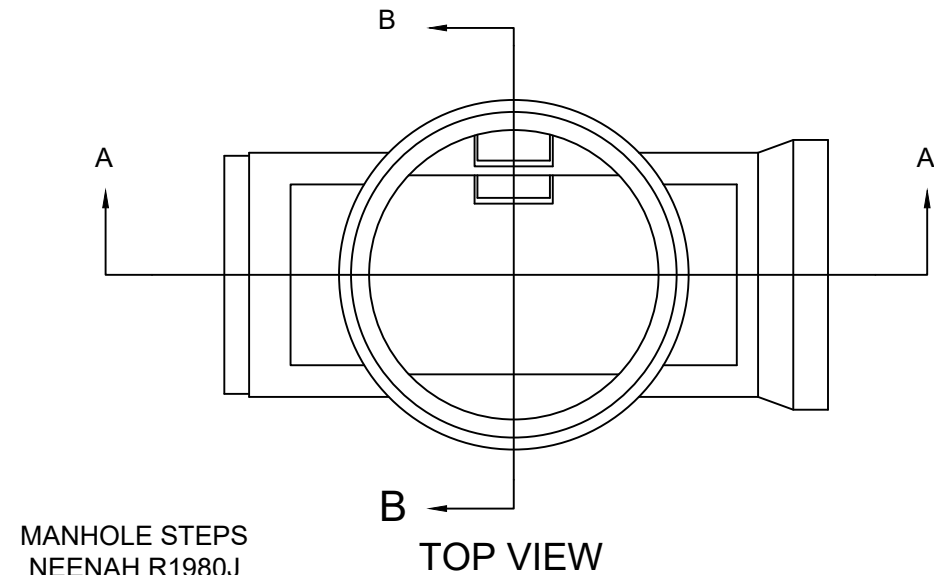
CLIENT  
CITY OF CORCORAN



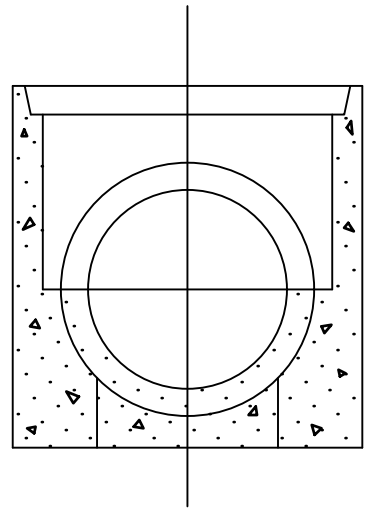
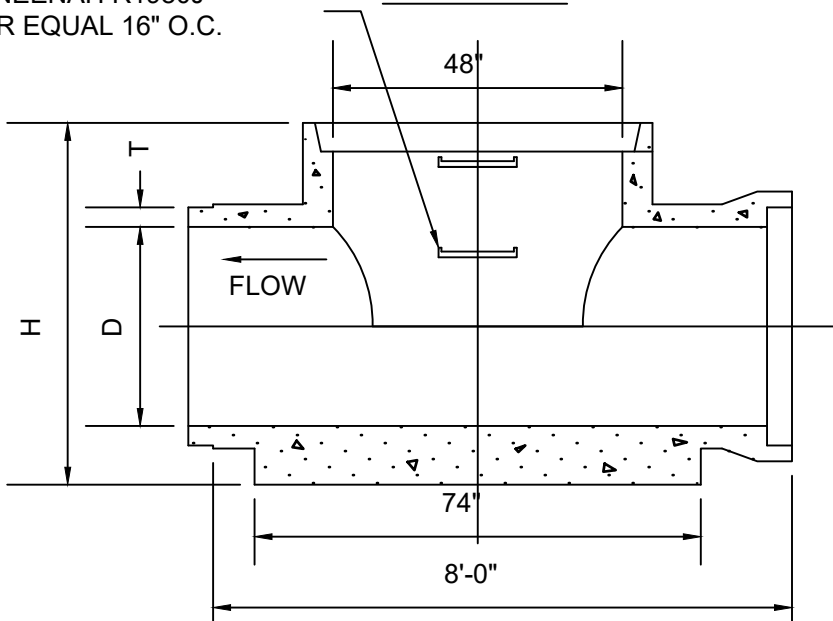
PROJECT  
STANDARD PLATES

SHEET  
TITLE  
CLEANOUTS  
PVC DRAINTILE

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	NPW	RWS	RWS	SCALE	2294-00	STO-23	



MANHOLE STEPS  
NEENAH R1980J  
OR EQUAL 16" O.C.



SIDE VIEW

END VIEW

PIPE DIAMETER "D"	"B" WALL THICKNESS "T"	"C" WALL THICKNESS "T"	"B" WALL HEIGHT "H"
12"	2"	2 3/4"	36"
15"	2 3/4"	3"	36"
18"	2 1/2"	3 1/4"	48"
21"	2 3/4"	3 1/2"	48"
24"	3"	3 3/4"	48"
27"	3 1/4"	4"	60"
30"	3 1/2"	4 1/4"	60"
33"	3 3/4"	4 1/2"	60"
36"	4"	4 3/4"	60"

**NOTE:**

1. ALL PIPES SHALL HAVE R-4 RUBBER GASKET JOINT.
2. HORIZONTAL PIPE MAY BE "B" WALL OR "C" WALL.



Responsive partner. Exceptional outcomes.

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CLIENT

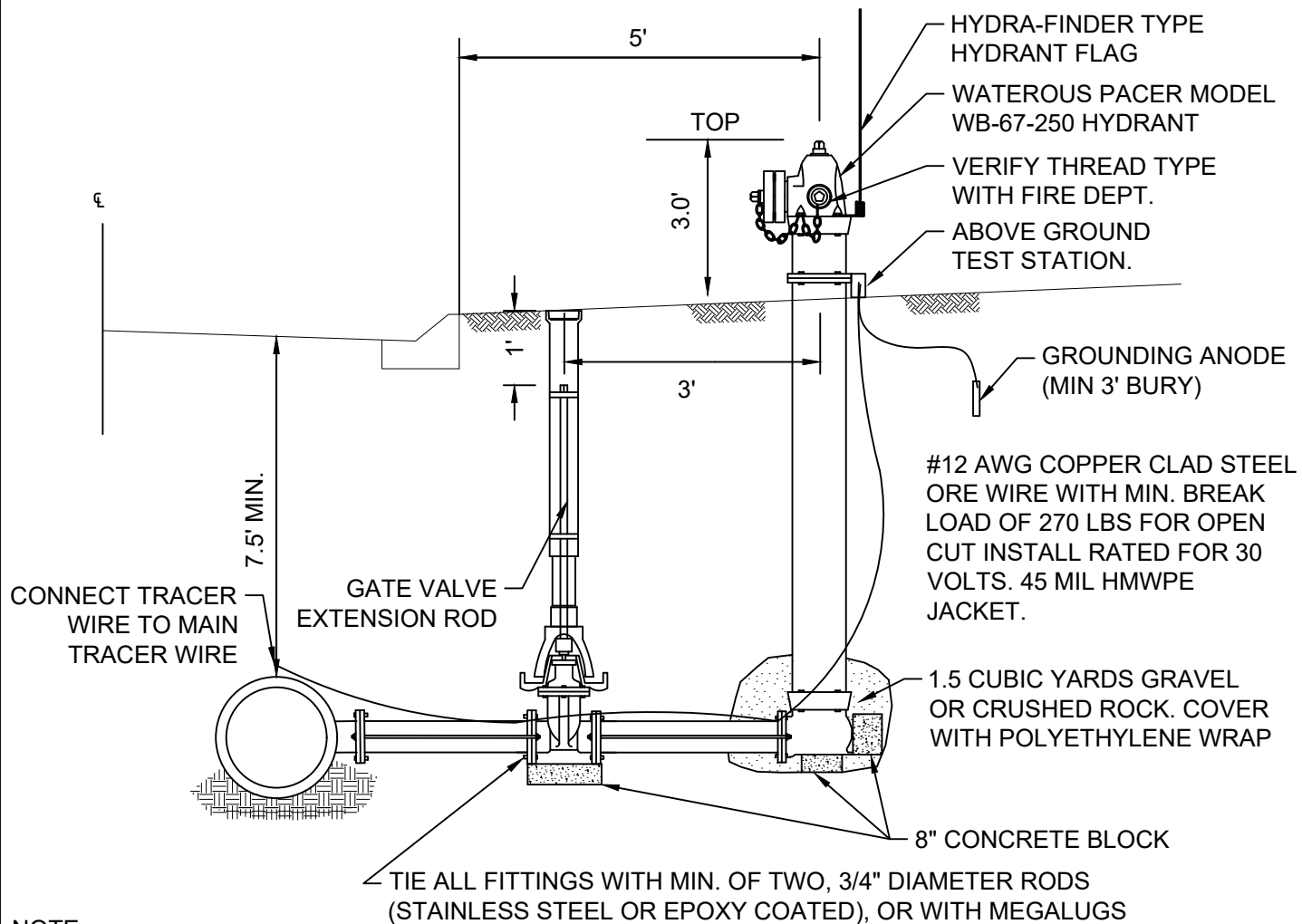
PROJECT

STANDARD PLATES

SHEET TITLE


"MINI - TEE" MANHOLE

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			MAR 2016	NPW	RWS	RWS	SCALE	2294-00	STO-24	



**NOTE:**

1. FACTORY INSTALLED PLUGS REQUIRED WHENEVER HYDRANTS ARE INSTALLED IN AREAS WITH HIGH GROUNDWATER LEVEL, AS DETERMINED BY DEWATERING REQUIREMENTS AND THE CITY ENGINEER. THE MAIN NOZZLE SHALL BE PAINTED BLUE FOR ALL HYDRANTS WITH PLUGGED DRAIN HOLES.
2. ALL DUCTILE IRON WATERMAIN FITTINGS SHALL BE FUSION BONDED EPOXY COATED.
3. HYDRANTS SHALL BE MARKED WITH STAINLESS STEEL TAG FROM FACTORY.
4. CONTRACTOR SHALL SUPPLY TWO HYDRANT FLAGS, ONE TO BE INSTALLED ON THE HYDRANT AND THE SECOND DELIVERED TO CORCORAN PUBLIC WORKS.
5. ALL HYDRANT LEADS ARE TO BE CONSTRUCTED WITH POLYWRAPPED DIP, CLASS 52.
6. PROVIDE TAPED POLYWRAP UP THE HYDRANT BARREL TO THE BREAK OFF FLANGE.
7. ALL WATERMAIN BOLTS SHALL BE COR-BLUE OR APPROVED EQUAL.
8. HYDRANTS SHALL BE PAINTED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: FLOW RATE OF 1,000 GPM OR MORE - GREEN; FLOW RATE BETWEEN 500 GPM AND 1,000 GPM - YELLOW; FLOW RATE OF 500 GPM OR LESS - RED.
9. ABOVE GROUND TEST STATION SHALL BE COBRA T3 (T2-R75) OR APPROVED EQUAL. OUTDOOR RATED PVC CONDUIT SHALL BE INSTALLED FROM BOTTOM OF TEST STATION TO 2' BELOW FINISH GRADE. SEE DETAIL WAT-11 FOR CONNECTION DETAILS.
10. MIN 1 LB. DRIVE IN ANODE WITH MIN. 20' WIRE LEAD.
11. CONNECTORS SHALL BE DRY CONN DIRECT BURY LUG AQUA, PRO-TRACE DB OR APPROVED EQUAL
12. CONTRACTOR SHALL SUPPLY 1 HYDRANT WRENCH FOR EVERY PHASE OR EVERY 5 HYDRANTS INSTALLED, WHICHEVER IS GREATER.

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		T: \2294-Corcoran\Corcoran logo.jpg		SHEET TITLE <b>HYDRANT DETAIL</b>						
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2018	NPW	RWS	RWS	SCALE	2294-00	WAT-1	

7.5' MINIMUM COVER REQUIRED OVER TOP OF WATER MAIN.

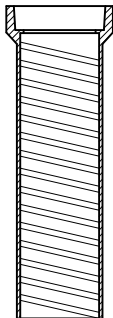


**DROP LID TYLER** No. 6860 No. H-10361 No. B-5160  
**MUELLER BIBBY-STE-CROIX**

EXTENSIONS REQUIRED ON ALL GATE VALVES

ADJUST TOP TO 1/2" BELOW GRADE. BOX TO BE SET TO PROVIDE 12" OF ADJUSTMENT.

EXTENSION SHALL BE WITHIN 1-2' OF FINISHED GRADE

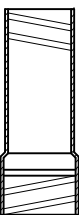


**TOP TYLER** No. 6860 No. H-10361 No. VB502  
**MUELLER BIBBY-STE-CROIX**

26"  
26"  
27"

TYLER NO. 6860 MUELLER NO. H-10357 BIBBY-STE-CROIX B-5001 GATE VALVE BOX, SCREW TYPE, 3 PIECE, 5 1/4" SHAFT, SIZE G BOX, 7'-6" EXTENDED, #6 ROUND BASE

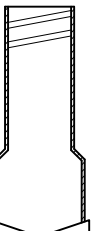
ALL GATE VALVES SHALL BE MANUFACTURED IN THE U.S. OR CANADA.



**EXTENSION TYLER** No. 58 No. 59 No. 60  
**MUELLER** No. 58 No. 59

14"  
18"  
24"  
14"  
20"

ALL VALVE BOX COMPONENTS SHALL BE MANUFACTURED IN THE U.S. OR CANADA, OR AS APPROVED BY THE CITY ENGINEER.



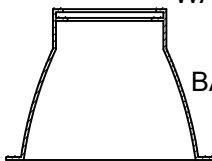
**BOTTOM TYLER** No. 6860 No. H-10361 No. VB516  
**MUELLER BIBBY-STE-CROIX**

65"  
65"  
60"

RESILIENT WEDGE VALVE CONFORMING AWWA C-509-80 STANDARDS INSTALLED WITH A VALVE BOX ADAPTER TYPE II.

ADAPTOR REQUIRED ON ALL GATE VALVES

GATE VALVE ADAPTOR 1/4" STEEL WITH PROTECTIVE COATING



COPPER TRACER WIRE INSTALLED ON ALL PVC WATER MAIN

1/2" RUBBER GASKET INSTALLED BETWEEN THE GATE VALVE AND GATE VALVE ADAPTOR

BASE

8" CONCRETE BLOCK

MEGALUGS (TYP)

NOTE: ALL WATERMAIN BOLTS ARE TO BE COR-BLUE OR AN APPROVED EQUAL



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PROJECT STANDARD PLATES

SHEET TITLE GATE VALVE AND BOX INSTALLATION

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2019	SKH	RWS	RWS	SCALE	2294-00	WAT-2	



NOTE: ALL BUTTERFLY VALVES SHALL BE INDIVIDUALLY HYDROSTATICALLY TESTED AGAINST BOTH SIDES OF VALVE

COR-BLUE OR STAINLESS STEEL BOLTS REQUIRED FOR ALL MECHANICAL FITTINGS.

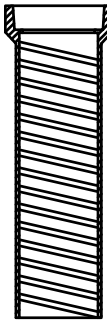
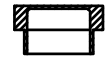
PROVIDE POLYWRAP AND TAPE AROUND ALL DIP WATERMAIN

7.5' MINIMUM COVER REQUIRED OVER TOP OF WATER MAIN.

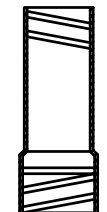
RESTRAIN TEE AND VALVE WITH MEGALUG (OR EQUAL) THRUST RESTRAINTS.



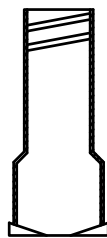
DROP LID  
 TYLER NO. 6850 OR 6860  
 MUELLER NO. H-10361  
 BIBBY-STE-CROIX NO. B-5160



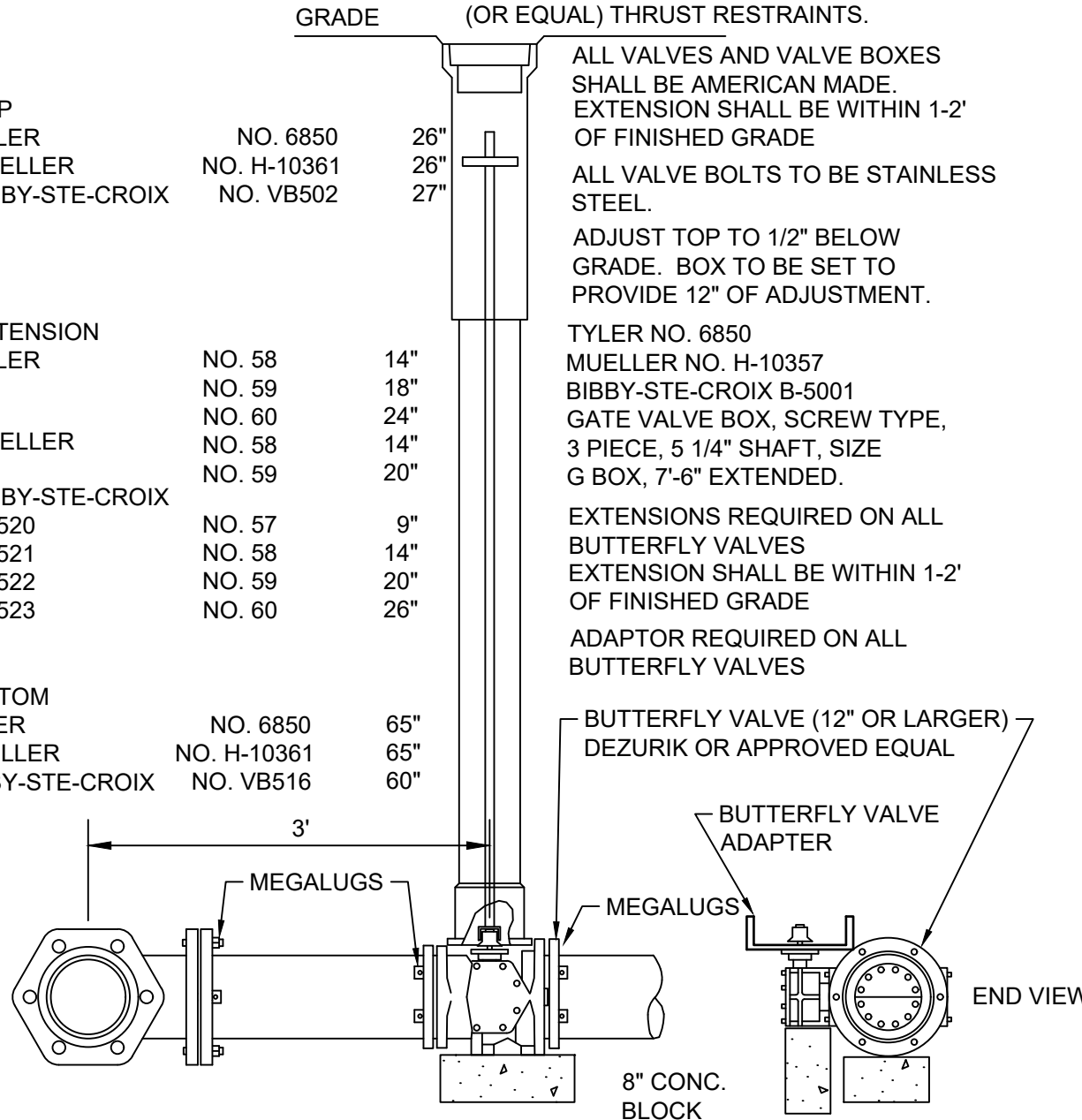
TOP  
 TYLER NO. 6850 26"  
 MUELLER NO. H-10361 26"  
 BIBBY-STE-CROIX NO. VB502 27"



EXTENSION  
 TYLER NO. 58 14"  
 NO. 59 18"  
 NO. 60 24"  
 MUELLER NO. 58 14"  
 NO. 59 20"



BOTTOM  
 TYLER NO. 6850 65"  
 MUELLER NO. H-10361 65"  
 BIBBY-STE-CROIX NO. VB516 60"



ALL VALVES AND VALVE BOXES SHALL BE AMERICAN MADE. EXTENSION SHALL BE WITHIN 1-2' OF FINISHED GRADE  
 ALL VALVE BOLTS TO BE STAINLESS STEEL.

ADJUST TOP TO 1/2" BELOW GRADE. BOX TO BE SET TO PROVIDE 12" OF ADJUSTMENT.

TYLER NO. 6850  
 MUELLER NO. H-10357  
 BIBBY-STE-CROIX B-5001  
 GATE VALVE BOX, SCREW TYPE, 3 PIECE, 5 1/4" SHAFT, SIZE G BOX, 7'-6" EXTENDED.

EXTENSIONS REQUIRED ON ALL BUTTERFLY VALVES  
 EXTENSION SHALL BE WITHIN 1-2' OF FINISHED GRADE

ADAPTOR REQUIRED ON ALL BUTTERFLY VALVES

BUTTERFLY VALVE (12" OR LARGER) DEZURIK OR APPROVED EQUAL

BUTTERFLY VALVE ADAPTER

END VIEW

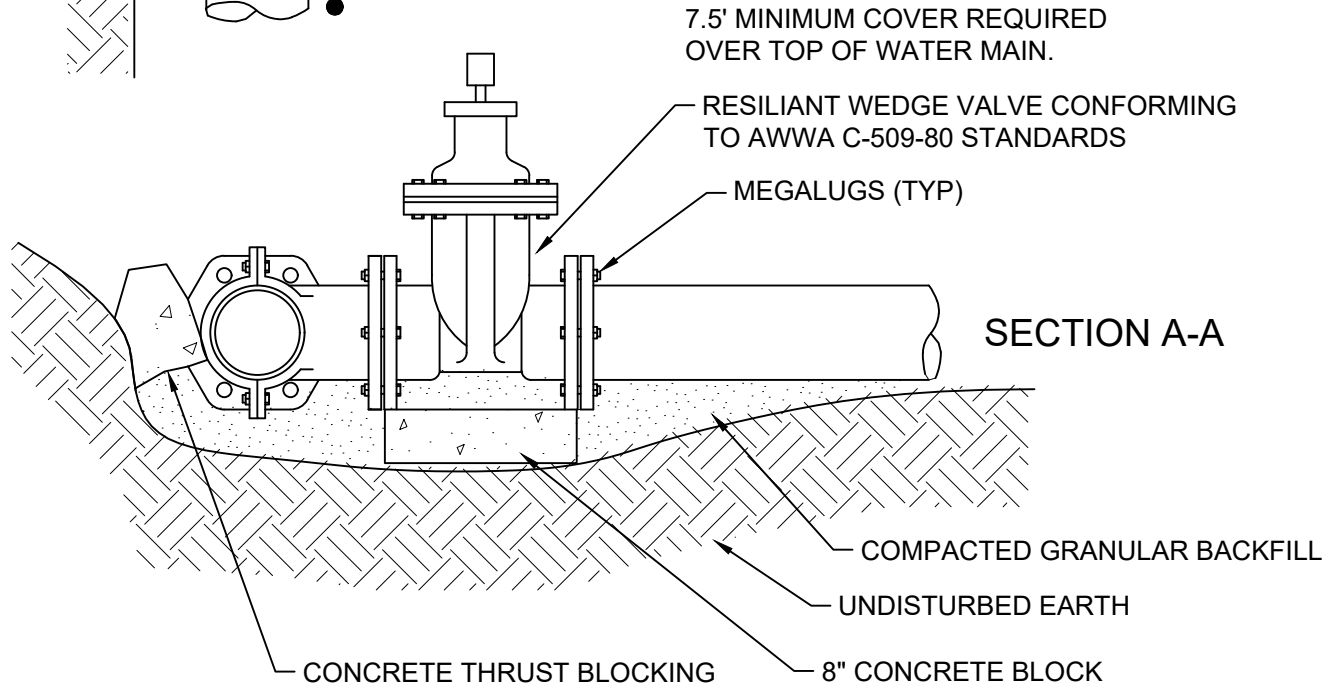
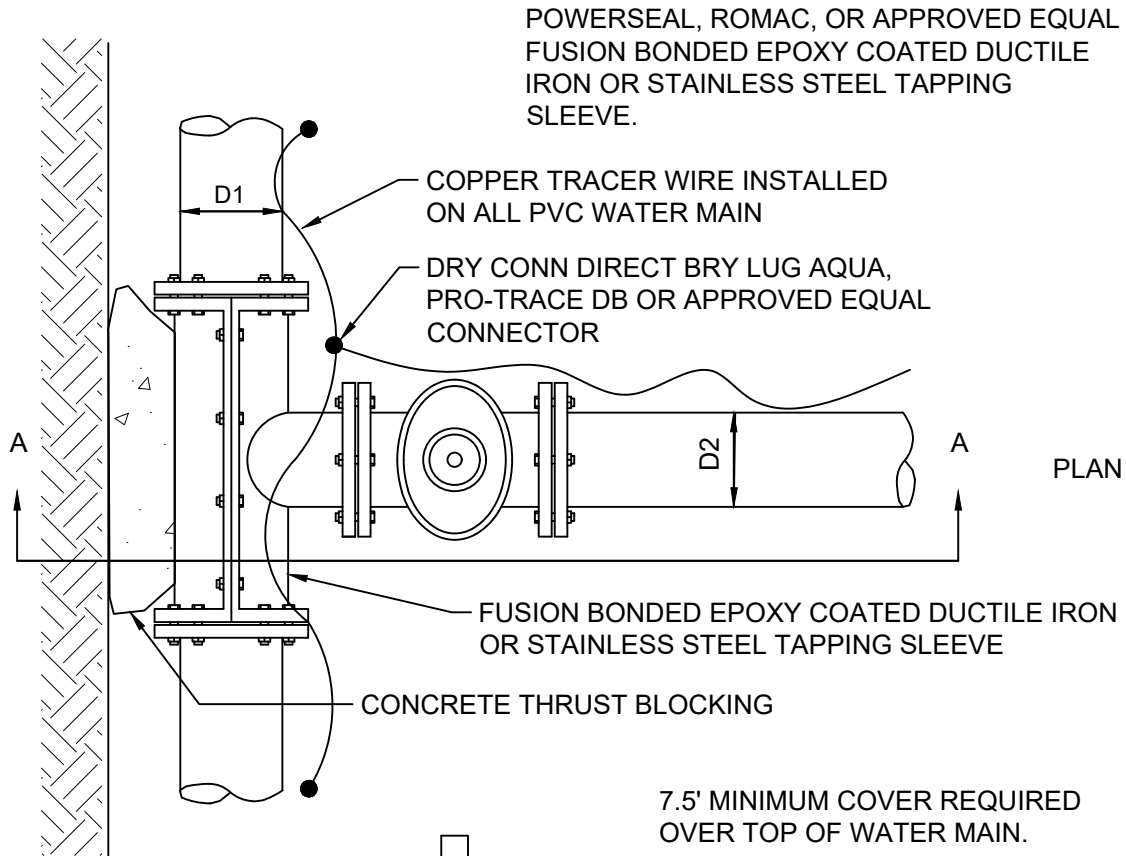
8" CONC. BLOCK

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PROJECT STANDARD PLATES  
 SHEET TITLE BUTTERFLY VALVE AND BOX INSTALLATION

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	NPW	RWS	RWS	SCALE	2294-00	WAT-3	



NOTE: ALL WATERMAIN BOLTS SHALL BE COR-BLUE OR AN APPROVED EQUAL



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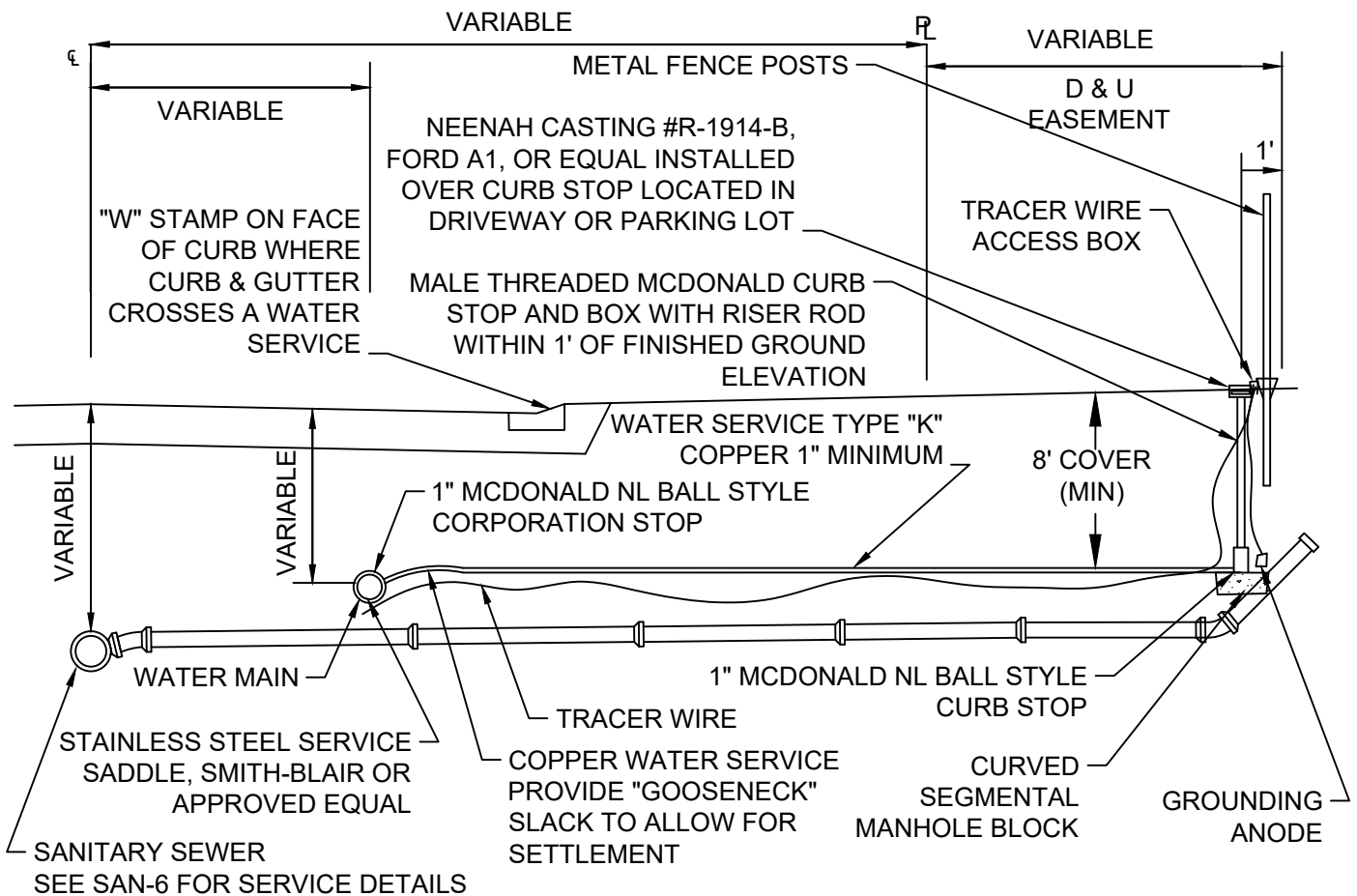
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PROJECT STANDARD PLATES  
 SHEET TITLE WATERMAIN WET TAP

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2016	SKH	RWS	RWS	SCALE	2294-00	WAT-4	

NOTES:

1. ALL NEW CURB BOXES MUST HAVE RISER RODS ADJUSTABLE UP AND DOWN FOR 8' OF COVER. WHEN AN EXISTING CURB BOX IS ON A CONSTRUCTION OR RECONSTRUCTION PROJECT, RISER RODS SHALL BE INSTALLED TO ALL CURB BOXES ON THAT PROJECT.
2. PLACEMENT OF CURB STOP AND BOX ON PRIVATE STREETS SHALL BE 9' BEHIND THE PROPERTY LINE WITH NO COPPER STUBBED PAST THE CURB STOP AND BOX.
3. COPPER IS TO BE ONE PIECE, NO JOINTS, COUPLINGS, ETC., ALLOWED FROM MAIN TO CURB STOP.
4. WATER SERVICE AND SANITARY SEWER SERVICE SHALL HAVE A 3' HORIZONTAL SEPARATION.
5. CURB BOXES LOCATED IN DRIVEWAYS OR PARKING LOTS SHALL BE COVERED WITH A FORD A-1 METER BOX COVER.
6. A "W" STAMP PER CITY PLATE #STR-24 MUST BE PLACED ON THE FACE OF CURB WHEREVER CURB AND GUTTER CROSSES A WATER SERVICE.
7. METAL FENCE POST AT END OF WATER AND SANITARY SERVICE, 4' ABOVE GRADE WATER FENCE POST TO BE PAINTED BLUE. SANITARY FENCE POST TO BE PAINTED GREEN.
8. ALL PIPE SHALL BE BEDDED IN GRANULAR BORROW 3149.2B1.
9. TRACER WIRE SHALL BE BROUGHT UP ALONG WATERMAIN CURB STOP. INSTALL VALVCO, SNAKEPIT, OR APPROVE EQUAL TRAFFIC RATED TRACER WIRE ACCESS BOX WITH TWO LUGS.
10. MIN OF 1LB. DRIVE IN ANODES WITH MIN 20' WIRE LEAD ARE TO BE INSTALLED AT EVERY TRACE WIRE ACCESS BOX
11. TRACER WIRE SHALL BE 12AWG COPPER CLAD STEEL ORE WITH MIN BREAK LOAD OF 270LB FOR OPEN CUT INSTALLATION RATED FOR 30 VOLTS. MIN 45 MIL HMWPE JACKET
12. TRACER WIRE CONNECTOR SHALL BE DRY CONN DIRECT BURY LUG AQUA, PRO-TRACE DB OR APPROVED EQUAL



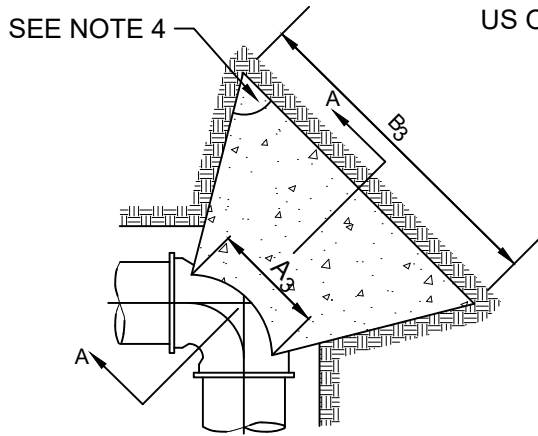
 <p><b>WENCK ASSOCIATES</b></p> <p>Responsive partner. Exceptional outcomes.</p> <p>1800 PIONEER CREEK CENTER 763-479-4200          MAPLE PLAIN, MN 55359 763-479-4242          Web Site: www.wenck.com</p>				CLIENT CITY OF CORCORAN T: \2294-Corcoran\Corcoran logo.jpg				PROJECT STANDARD PLATES			
				SHEET TITLE WATER SERVICE CONNECTION				PROJECT NO. 2294-00			
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
			DEC 2019	SKH	RWS	RWS	SCALE	2294-00	WAT-5		

**NOTES:**

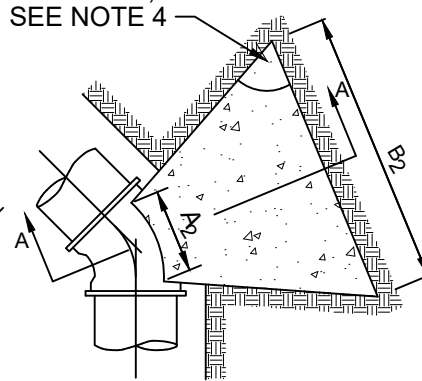
1. SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POURED AGAINST FIRM UNDISTURBED EARTH.
2. DIMENSION C1,C2,C3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE Ø EQUAL TO OR LARGER THAN 90°.
3. DIMENSION A1,A2,A3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH MJ BOLTS.
4. ANGLE SHALL BE 90° MINIMUM.
5. PLACE POLYETHYLENE BETWEEN CONCRETE & PIPE.
6. MEGALUGS SHALL BE INSTALLED ON ALL BENDS.

BUTTRESS DIMENSIONS						
PIPE SIZE	22 1/2° BEND		45° BEND		90° BEND	
	B1	D1	B2	D2	B3	D3
6"	1'-5"	1'-5"	1'-5"	1'-5"	2'-1"	1'-6"
8"	1'-5"	1'-5"	2'-1"	1'-6"	2'-8"	2'-0"
12"	1'-10"	1'-10"	3'-4"	2'-0"	4'-9"	2'-6"
16"	3'-0"	2'-0"	3'-10"	3'-0"	6'-2"	3'-6"
20"	3'-6"	2'-8"	5'-6"	3'-4"	8'-4"	4'-0"
24"	4'-4"	3'-0"	6'-10"	3'-10"	9'-8"	5'-0"
30"	-	-	9'-3"	6'-0"	17'-0"	6'-0"

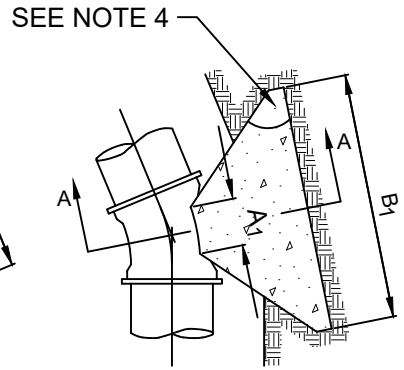
ALL DUCTILE IRON FITTINGS TO BE FUSION BONDED EPOXY COATED.  
 ALL DUCTILE IRON PIPE AND FITTINGS TO BE WRAPPED IN POLY AND TAPED.  
 ALL DUCTILE IRON PIPES AND FITTINGS TO BE MANUFACTURED IN US OR CANADA, OR AS APPROVED BY THE CITY ENGINEER.



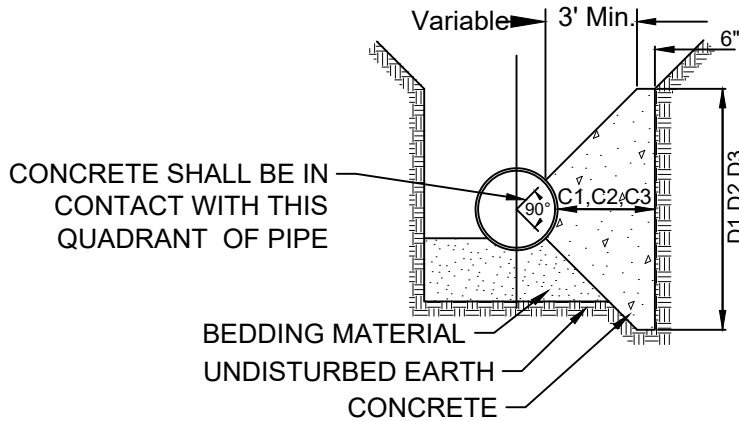
PLAN 90° BENDS



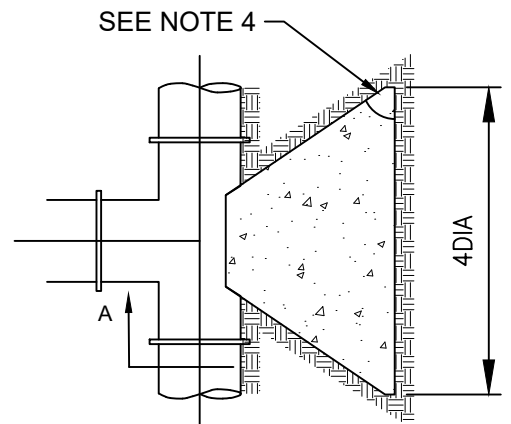
PLAN 45° BENDS



PLAN 22 1/2° BENDS



SECTION A-A



PLAN 3 WAY TEES

NOTE: ALL WATERMAIN BOLTS SHALL BE COR-BLUE OR APPROVED EQUAL



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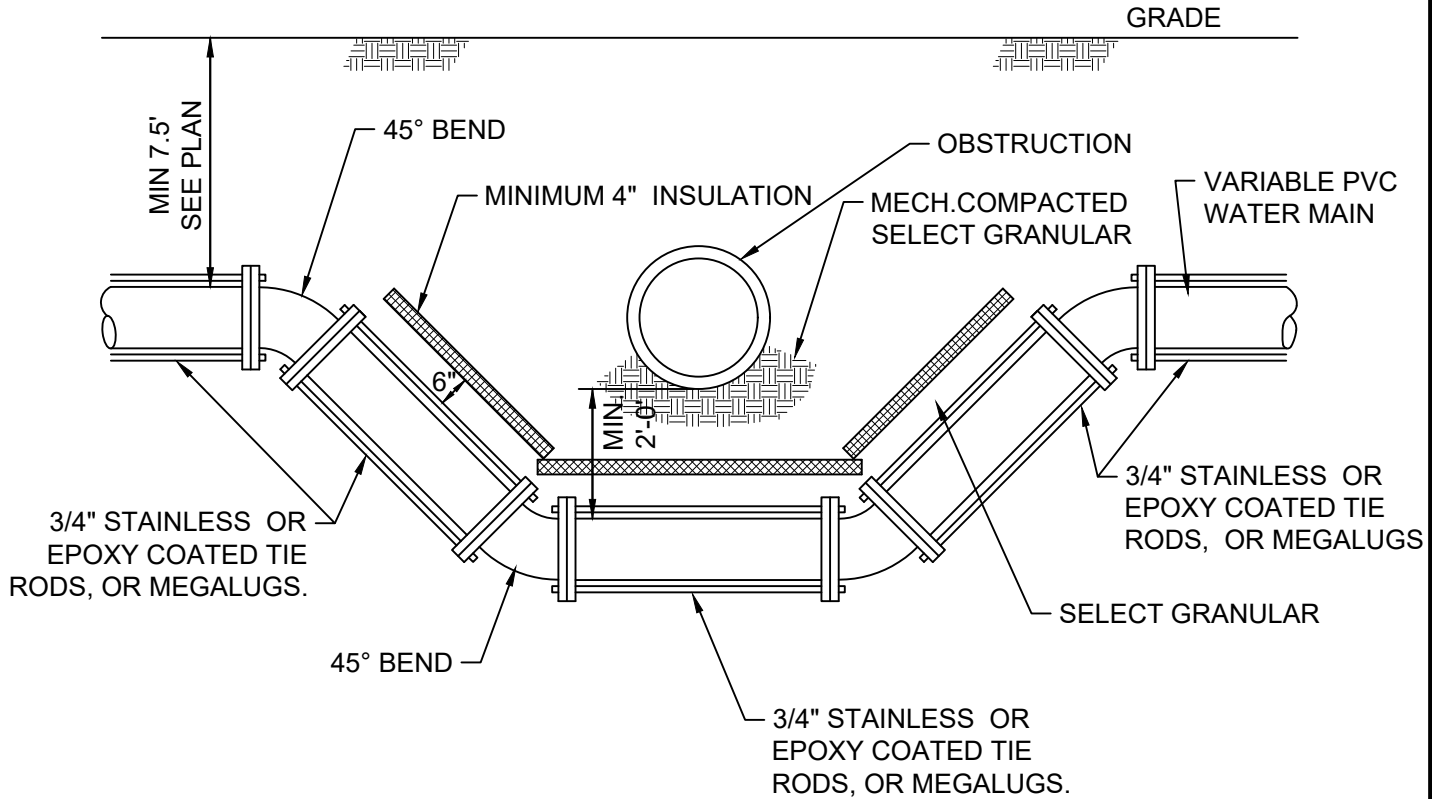
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PROJECT STANDARD PLATES

SHEET TITLE CONCRETE THRUST BLOCKING

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2020	SKH	RWS	RWS	SCALE	2294-00	WAT-6	



**NOTE:**

1. ALL FITTINGS SHALL BE FUSION BONDED EPOXY COATED DUCTILE IRON TO MEET OR EXCEED ANSI/AWWA C550 AND C116/A21.116 REQUIREMENTS.
2. MEGALUGS, IF USED SHALL BE SNUG FIT ON CIP WATER MAIN AND SHALL BOLTS SHALL NOT BE "SNAPPED" TIGHT.
3. SELECT GRANULAR WILL BE REQUIRED BETWEEN INSULATION, WATER MAIN, AND OBSTRUCTION.
4. ALL BENDS SHALL HAVE MEGALUGS OR TIE RODS WITH BLOCKING IN ACCORDANCE WITH STANDARD PLATE WAT-5.
5. COPPER TRACER WIRE SHALL BE USED ON PVC WATERMAIN.
6. ALL WATERMAIN BOLTS SHALL BE COR-BLUE OR APPROVED EQUAL.



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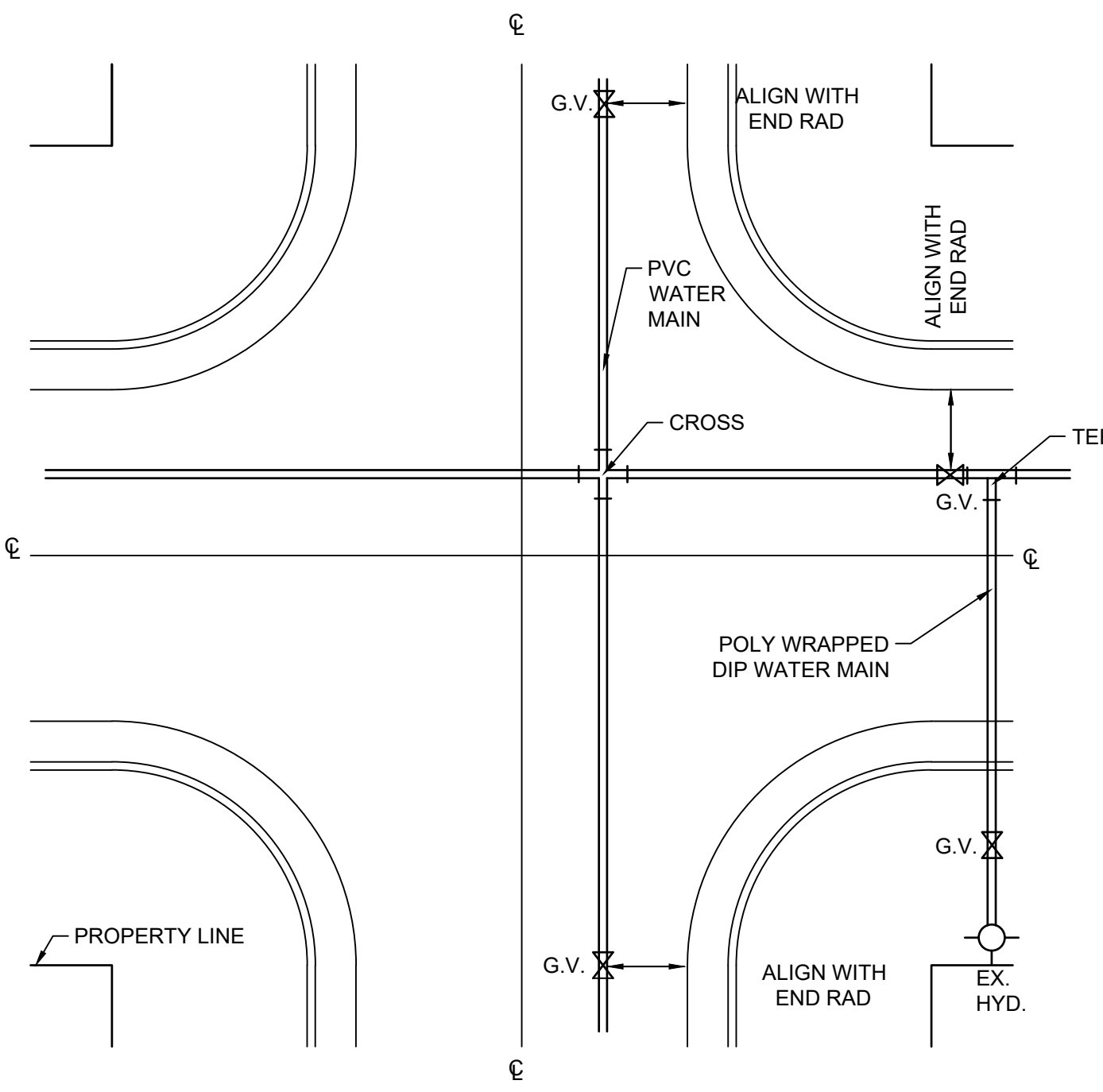
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PROJECT STANDARD PLATES

SHEET TITLE WATER MAIN OFFSET

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2016	SKH	RWS	RWS	SCALE	2294-00	WAT-7	



**NOTE:**

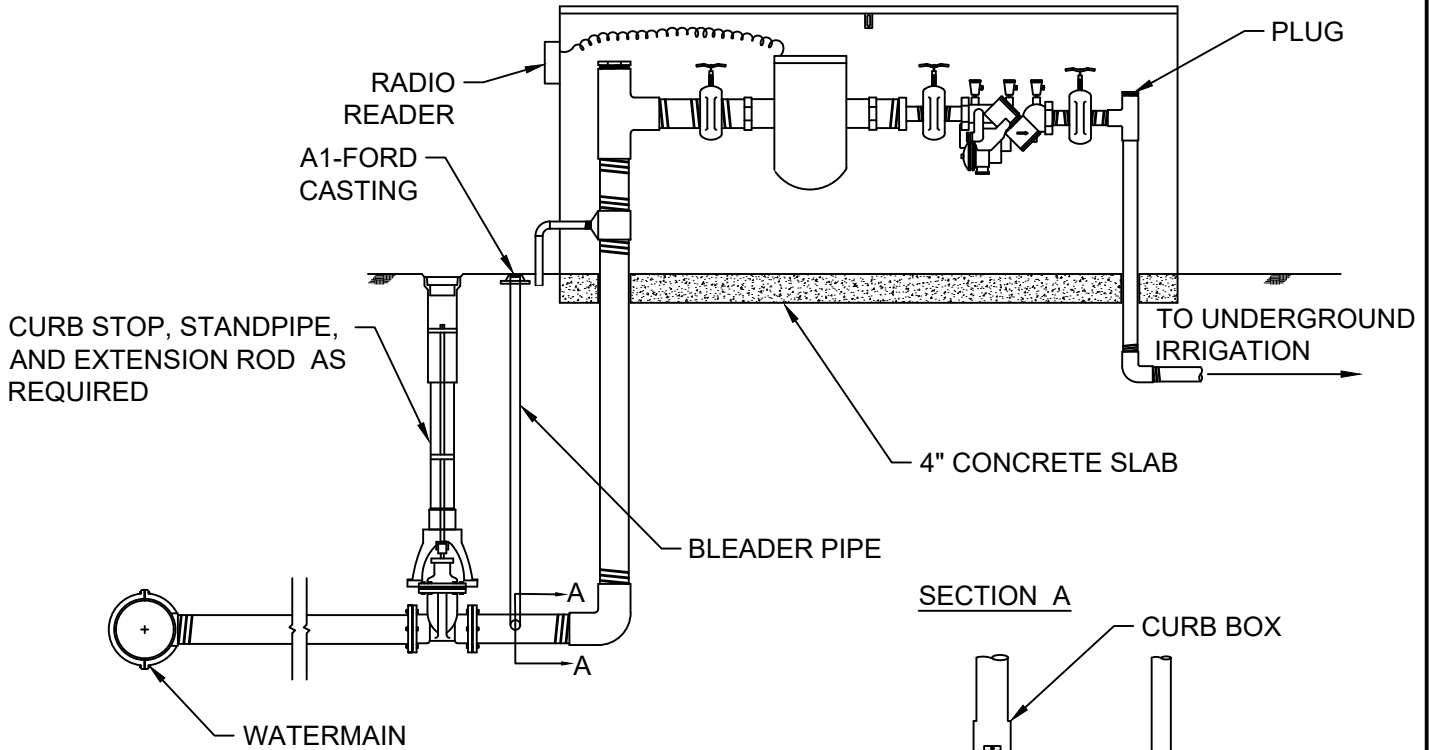
1. SEE DETAIL PLATE WAT-1 FOR TYPICAL HYDRANT AND GATE VALVE LAYOUT.
2. SEE DETAIL PLATE WAT-5 FOR TYPICAL WATER SERVICE CONNECTION.
3. ALL WATERMAIN SHALL BE PLACED NORTH AND EAST OF THE CENTER LINE OF ROAD.
4. ALL DUCTILE IRON WATERMAIN FITTINGS SHALL BE FUSION BONDED EPOXY COATED.
5. ALL PVC WATERMAIN SHALL HAVE A COPPER TRACER WIRE.
6. ALL VALVES TO BE PLACED 3' FROM TEES, CROSSES, OR HYDRANTS.
7. CITY MAY ADD ADDITIONAL VALVES IN LOCATIONS WHERE EXISTING VALVES ARE SPACED TOO FAR APART.



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PROJECT  
STANDARD PLATES  
SHEET TITLE  
**TYPICAL GATE VALVE LAYOUT**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2016	SKH	RWS	RWS	SCALE	2294-00	<b>WAT-8</b>	



**NOTE:**

1. TO WINTERIZE, REMOVE AND DRAIN METER, SIPHON WATER FROM FEED LINE, BLOW OUT IRRIGATION LINES AND REINSTALL METER.
2. SECURITY BOX MUST BE MAINTENANCE FREE VANDELPROOF ENCLOSURE, WITH HINGED TOP.



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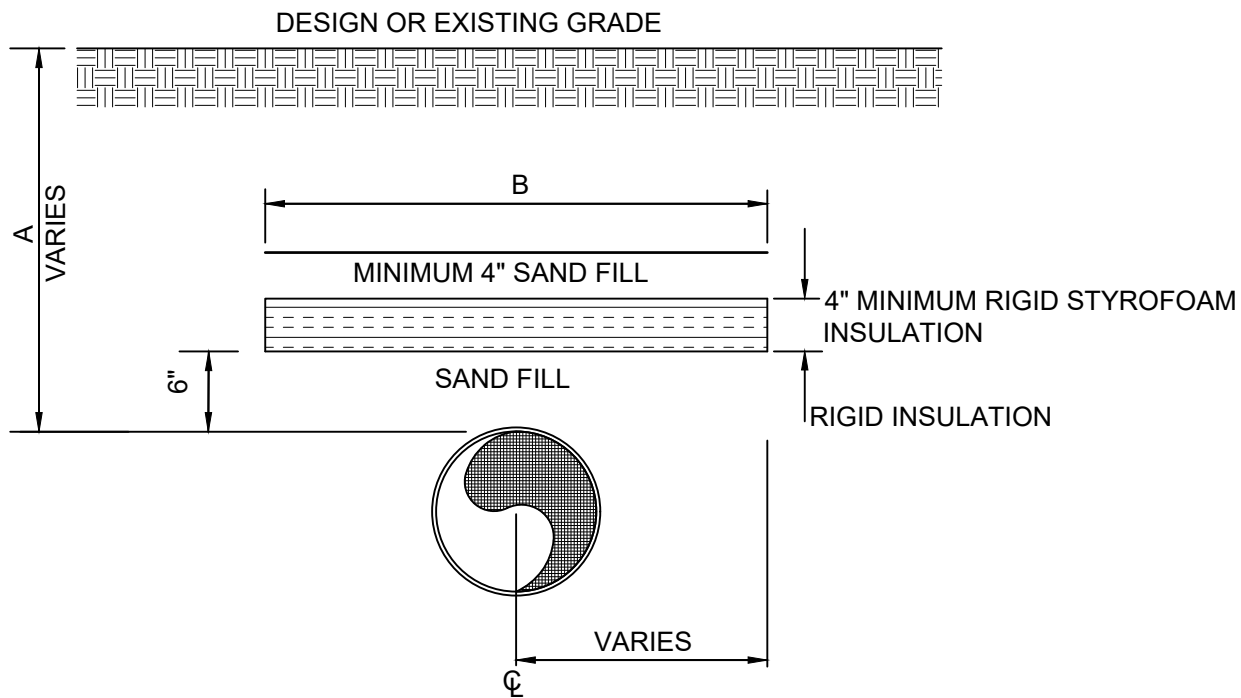
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PROJECT STANDARD PLATES

SHEET TITLE IRRIGATION SYSTEM TAP, METER AND BACKFLOW PREVENTOR ASSEMBLY

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2016	SKH	RWS	RWS	SCALE	2294-00	WAT-9	



NOTE: PIPE SHALL BE CENTERED UNDER INSULATION UNLESS OTHERWISE SPECIFIED.

COVER OVER PIPE - A

5'  
6'

WIDTH OF INSULATING BOARD - B

8'  
4'



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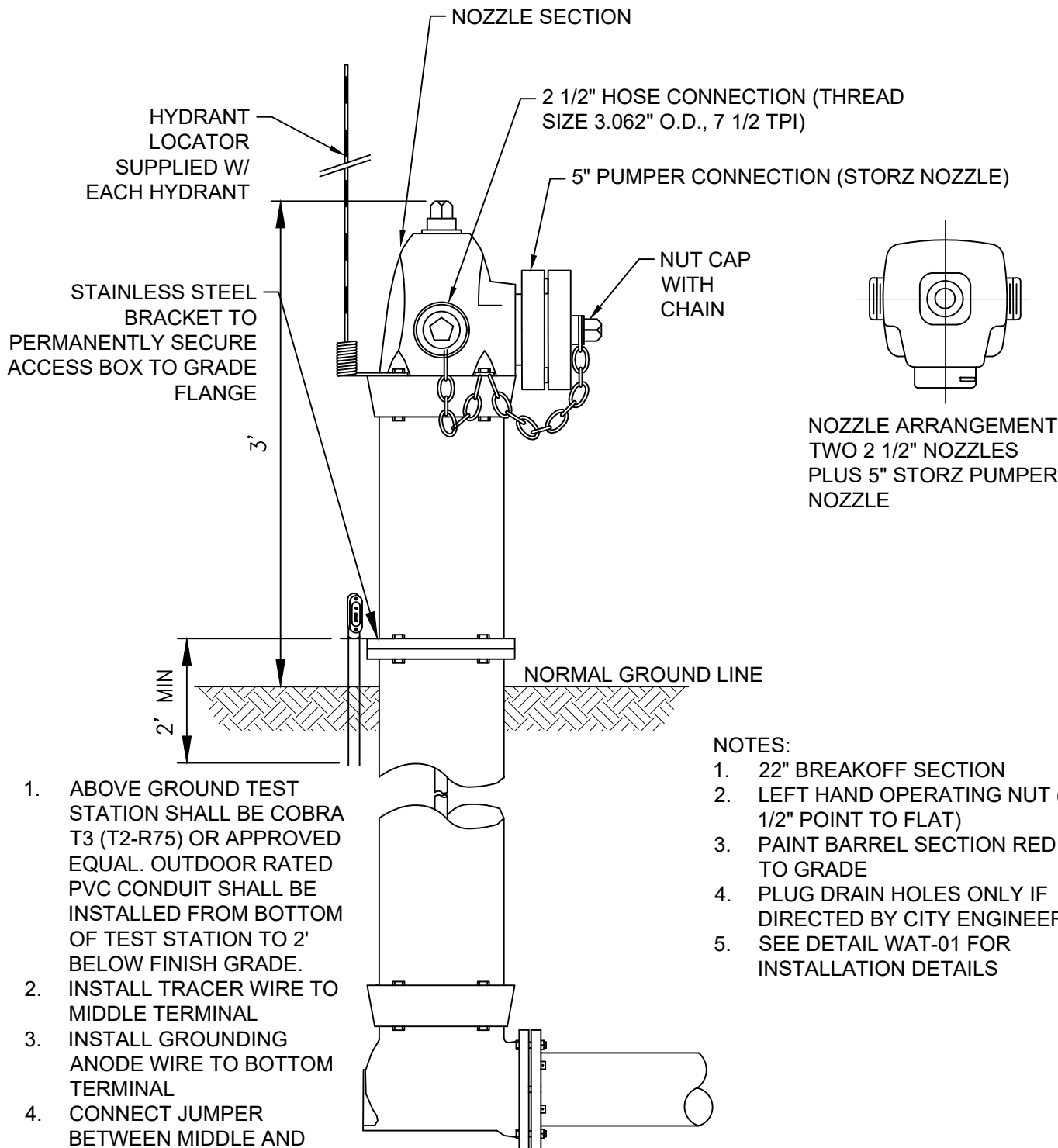
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PROJECT STANDARD PLATES

SHEET TITLE INSULATION DETAIL

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2019	SKH	RWS	RWS	SCALE	2294-00	WAT-10	



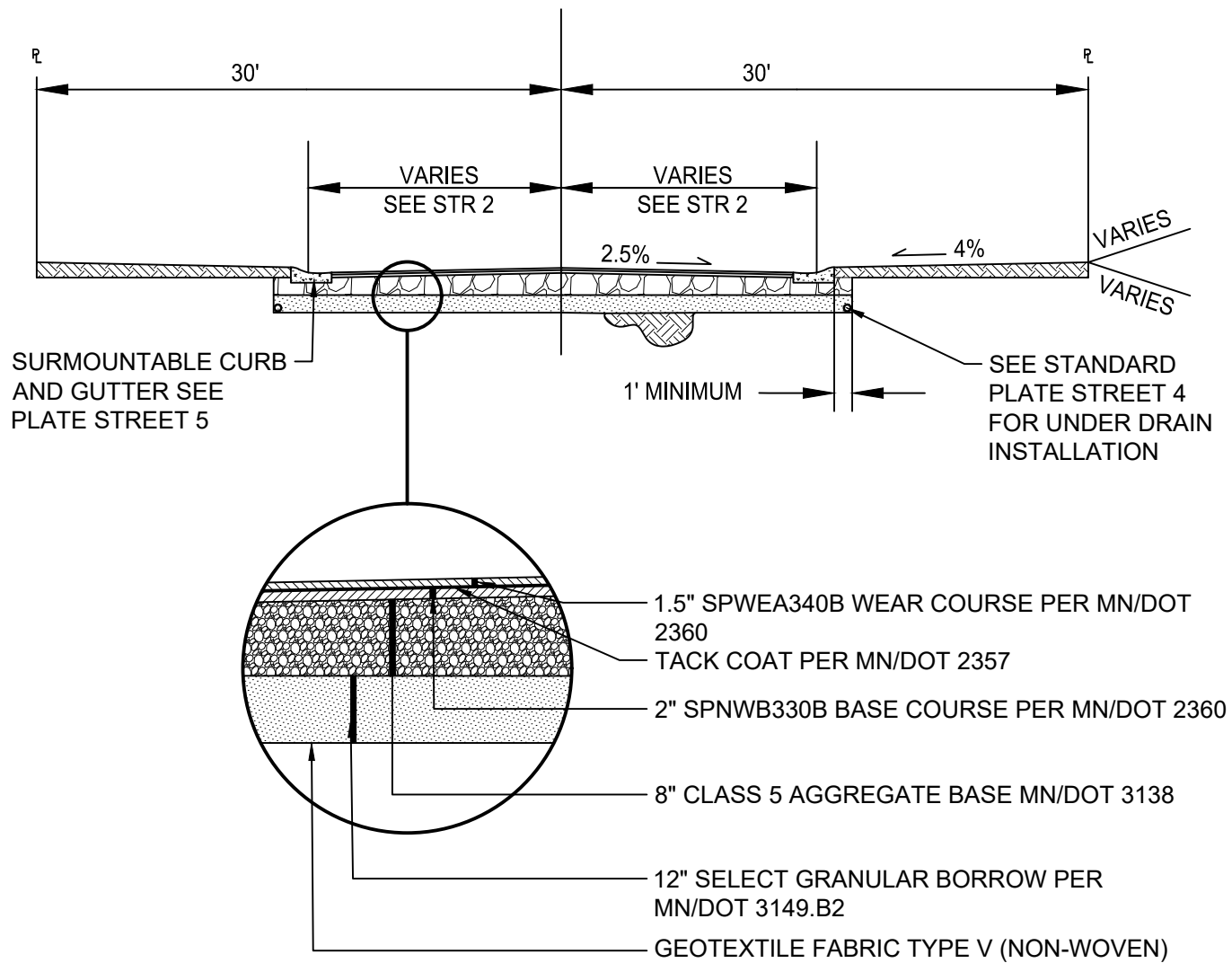


1. ABOVE GROUND TEST STATION SHALL BE COBRA T3 (T2-R75) OR APPROVED EQUAL. OUTDOOR RATED PVC CONDUIT SHALL BE INSTALLED FROM BOTTOM OF TEST STATION TO 2' BELOW FINISH GRADE.
2. INSTALL TRACER WIRE TO MIDDLE TERMINAL
3. INSTALL GROUNDING ANODE WIRE TO BOTTOM TERMINAL
4. CONNECT JUMPER BETWEEN MIDDLE AND BOTTOM TERMINAL

- NOTES:
1. 22" BREAKOFF SECTION
  2. LEFT HAND OPERATING NUT (1 1/2" POINT TO FLAT)
  3. PAINT BARREL SECTION RED TO GRADE
  4. PLUG DRAIN HOLES ONLY IF DIRECTED BY CITY ENGINEER
  5. SEE DETAIL WAT-01 FOR INSTALLATION DETAILS

NOTE: HYDRANT SHALL BE PACER MODEL WB67-250

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								SHEET TITLE PACER HYDRANT			
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
			JAN 2018	NPW	RWS	RWS	SCALE	2294-00	WAT-11		



NOTES:

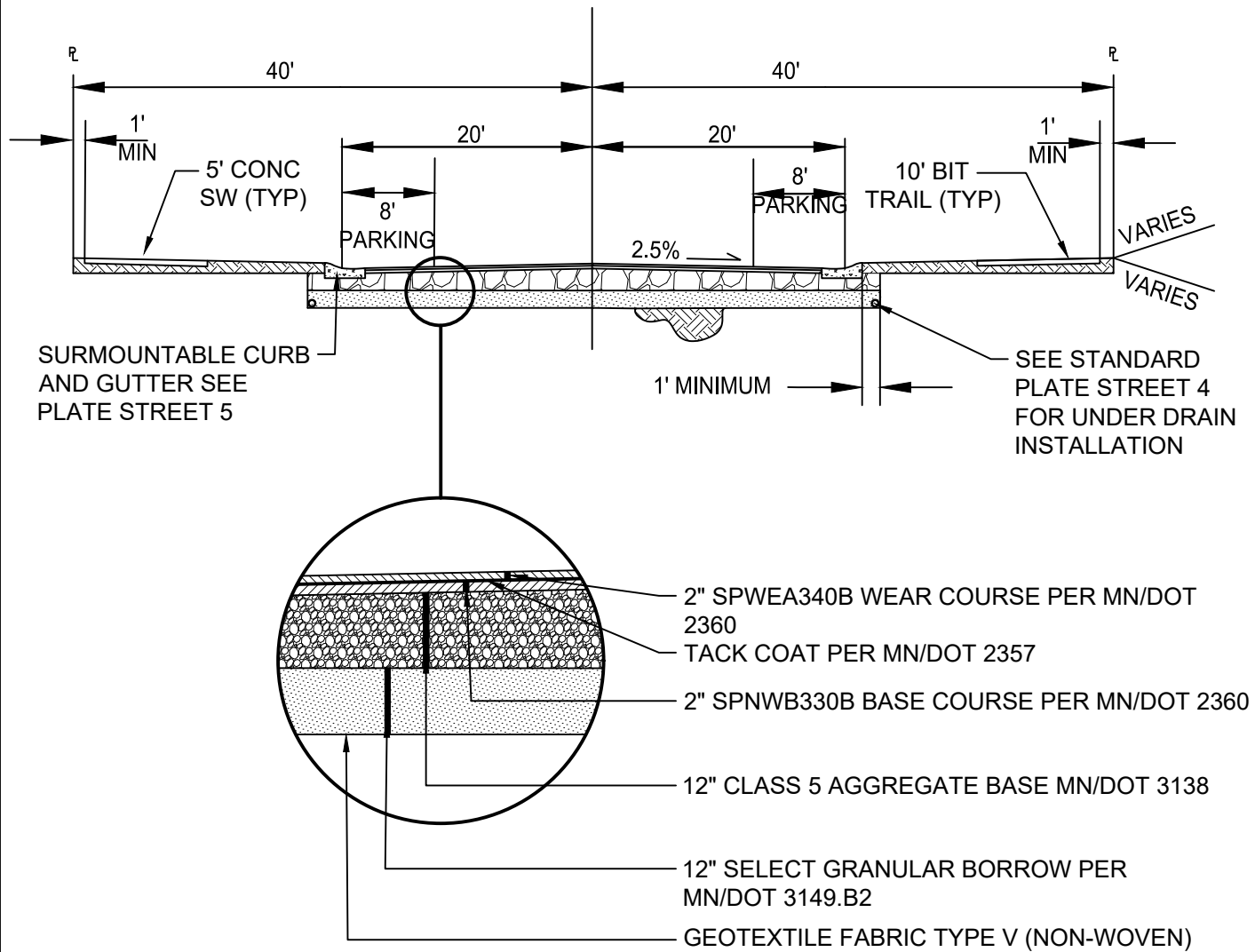
1. TYPICAL SECTION SHOWN IS THE MINIMUM RESIDENTIAL STREET REQUIREMENT. SEE SPECIFICATIONS FOR PROJECT SPECIFIC DETAILS.
2. DRAINTILE SHALL BE INSTALLED BEHIND CURB. DRAINTILE TO BE INSTALLED AS REQUIRED TO ADEQUATELY DRAIN ALL SELECT GRANULAR FILL AREAS.
3. STREET SHALL BE DESIGNED FOR A 30 MPH DESIGN SPEED WITH MINIMUM 0.50% AND MAXIMUM 6.00% GRADE.
4. THE CITY RESERVES THE RIGHT TO INCREASE THE STREET SECTION BASED ON SOIL CONDITIONS.
5. TACK COAT PER MN/DOT 2357 TO BE USED ON CURB PRIOR TO PLACEMENT OF BITUMINOUS
6. REFER TO THE HENNEPIN COUNTY BICYCLE TRANSPORTATION PLAN FOR TRAIL DETAILS.
7. RECYCLED MATERIAL SHALL NOT BE ALLOWED IN BITUMINOUS WEAR COURSE.

**WENCK ASSOCIATES**  
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PROJECT STANDARD PLATES  
 SHEET TITLE  
**RESIDENTIAL STREET SECTION**

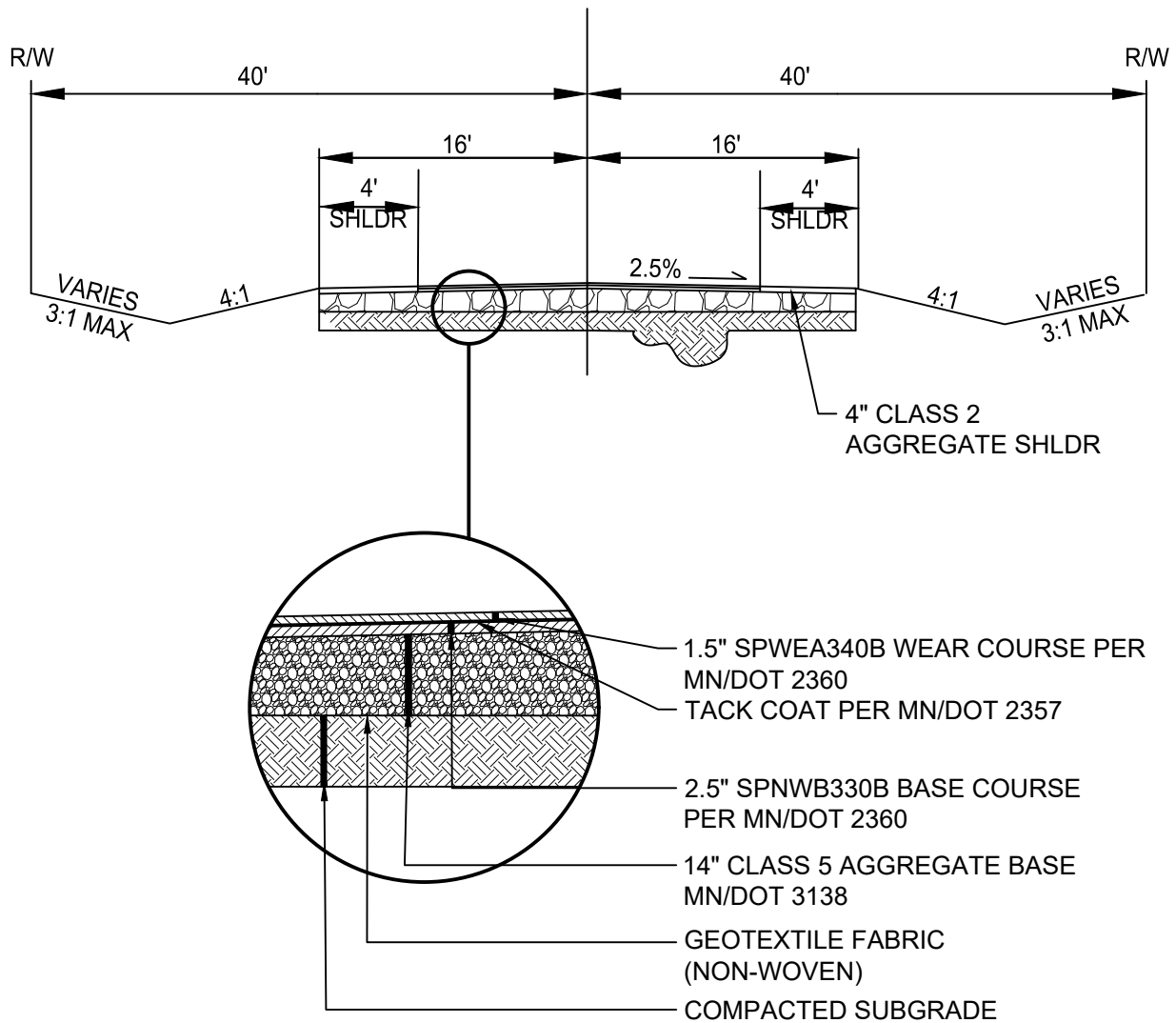
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STR-1A	



NOTES:

1. TYPICAL SECTION SHOWN IS THE MINIMUM RESIDENTIAL COLLECTOR STREET REQUIREMENT. SEE SPECIFICATIONS FOR PROJECT SPECIFIC DETAILS.
2. DRAINTILE SHALL BE INSTALLED BEHIND CURB. DRAINTILE TO BE INSTALLED AS REQUIRED TO ADEQUATELY DRAIN ALL SELECT GRANULAR FILL AREAS.
3. STREET SHALL BE DESIGNED FOR A 40 MPH DESIGN SPEED WITH MINIMUM 0.50% AND MAXIMUM 6.00% GRADE.
4. THE CITY RESERVES THE RIGHT TO INCREASE THE STREET SECTION BASED ON SOIL CONDITIONS.
5. TACK COAT PER MN/DOT 2357 TO BE USED ON CURB PRIOR TO PLACEMENT OF BITUMINOUS
6. REFER TO THE HENNEPIN COUNTY BICYCLE TRANSPORTATION PLAN FOR TRAIL DETAILS.
7. RECYCLED MATERIAL SHALL NOT BE ALLOWED IN BITUMINOUS WEAR COURSE.

<p>Responsive partner. Exceptional outcomes.          1800 PIONEER CREEK CENTER 763-479-4200          MAPLE PLAIN, MN 55359 763-479-4242          Web Site: www.wenck.com</p>		CLIENT <b>CITY OF CORCORAN</b> T: \2294-Corcoran\Corcoran logo.jpg		PROJECT STANDARD PLATES						
				SHEET TITLE <b>RESIDENTIAL COLLECTOR STREET SECTION</b>						
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STR-1B	



NOTES:

1. THE CITY RESERVES THE RIGHT TO INCREASE THE STREET SECTION BASED ON SOIL CONDITIONS.
2. SAW & SEAL ACCORDING TO MN/DOT 3725, AS DIRECTED BY THE CITY ENGINEER.
3. REFER TO THE HENNEPIN COUNTY BICYCLE TRANSPORTATION PLAN FOR TRAIL DETAILS.
4. RECYCLED MATERIAL SHALL NOT BE ALLOWED IN BITUMINOUS WEAR COURSE.



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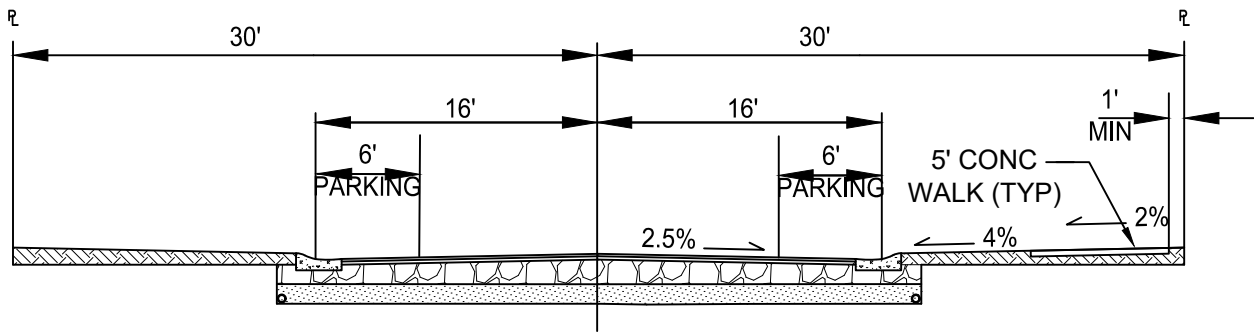
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PROJECT STANDARD PLATES

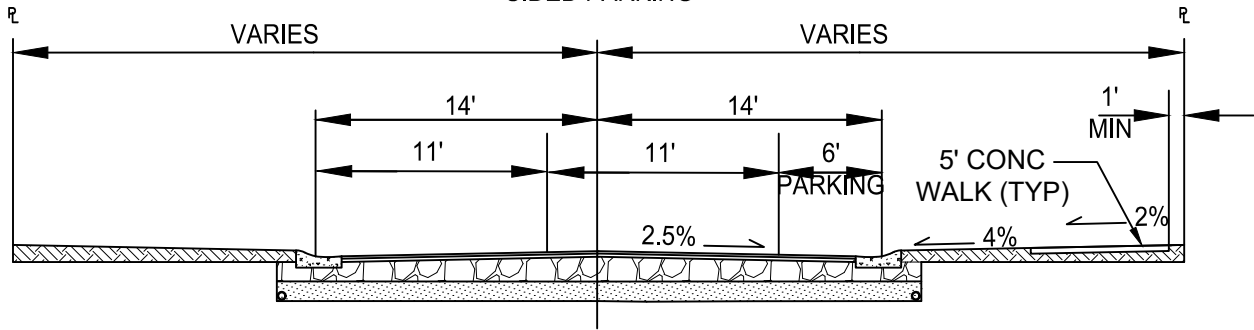
SHEET TITLE  
**RURAL COLLECTOR STREET SECTION**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STR-1C	

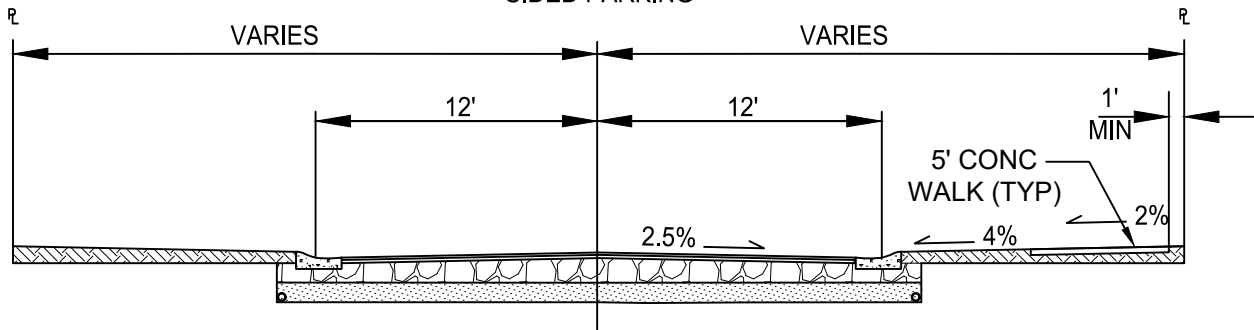




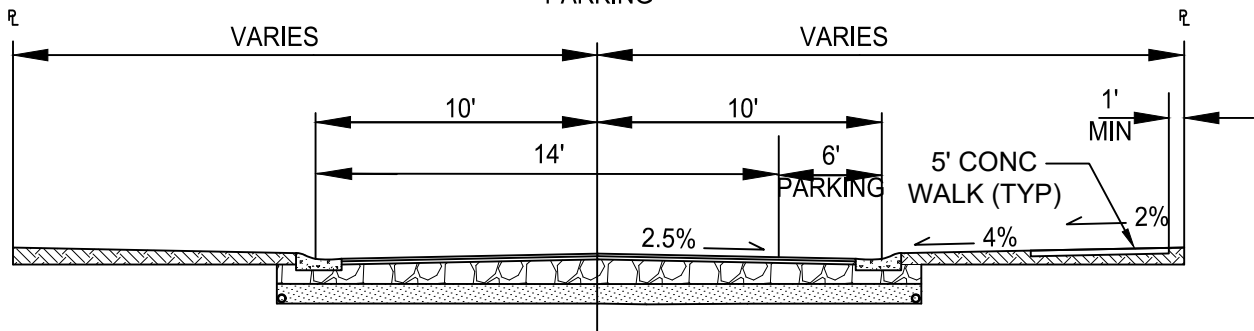
32 FOOT RESIDENTIAL STREET TWO SIDED PARKING



28 FOOT RESIDENTIAL STREET ONE SIDED PARKING



24 FOOT RESIDENTIAL STREET NO PARKING



20 FOOT RESIDENTIAL STREET ONEWAY - ONE SIDED PARKING



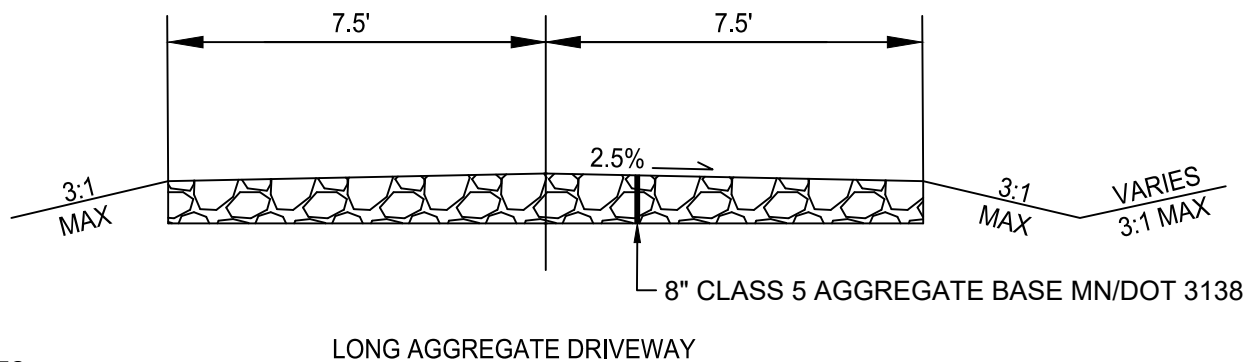
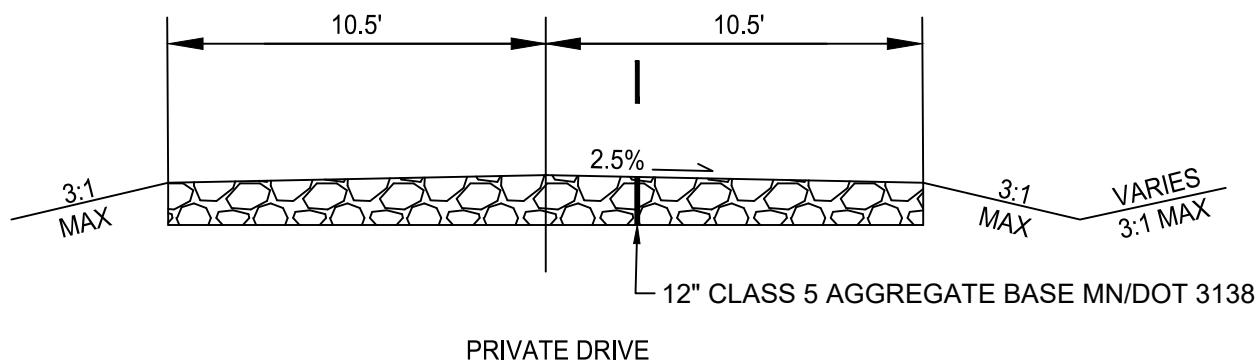
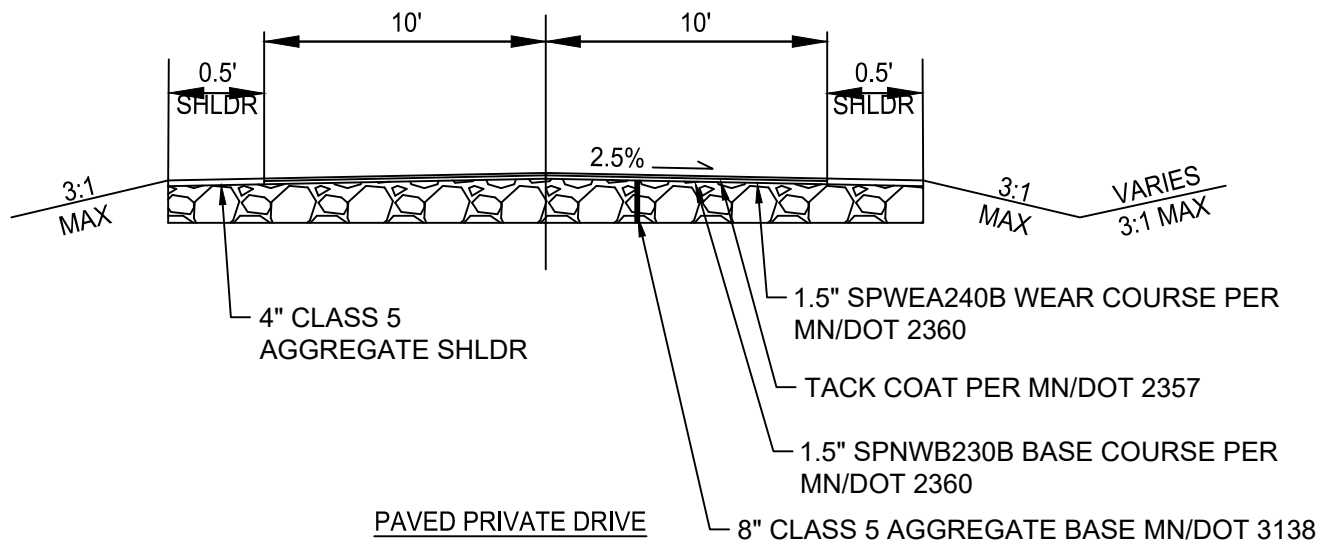
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PROJECT STANDARD PLATES

SHEET TITLE  
**RESIDENTIAL STREET DIMENSIONS**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STR-2	



NOTES:

1. THE CITY RESERVES THE RIGHT TO INCREASE THE DRIVEWAY SECTION BASED ON SOIL CONDITIONS FOR A 10-TON SECTION.
2. MINIMUM SLOPE = 0.5%
3. MAXIMUM SLOPE = 10%.
4. A SINGLE DRIVEWAY IS RECOMMENDED TO FOLLOW THIS DETAIL, BUT MAY NOT BE REQUIRED.
5. ROLL TEST TO BE CONDUCTED
6. PAVED APRON REQUIRED WHEN PRIVATE DRIVE COMES OFF PAVED PUBLIC ROAD



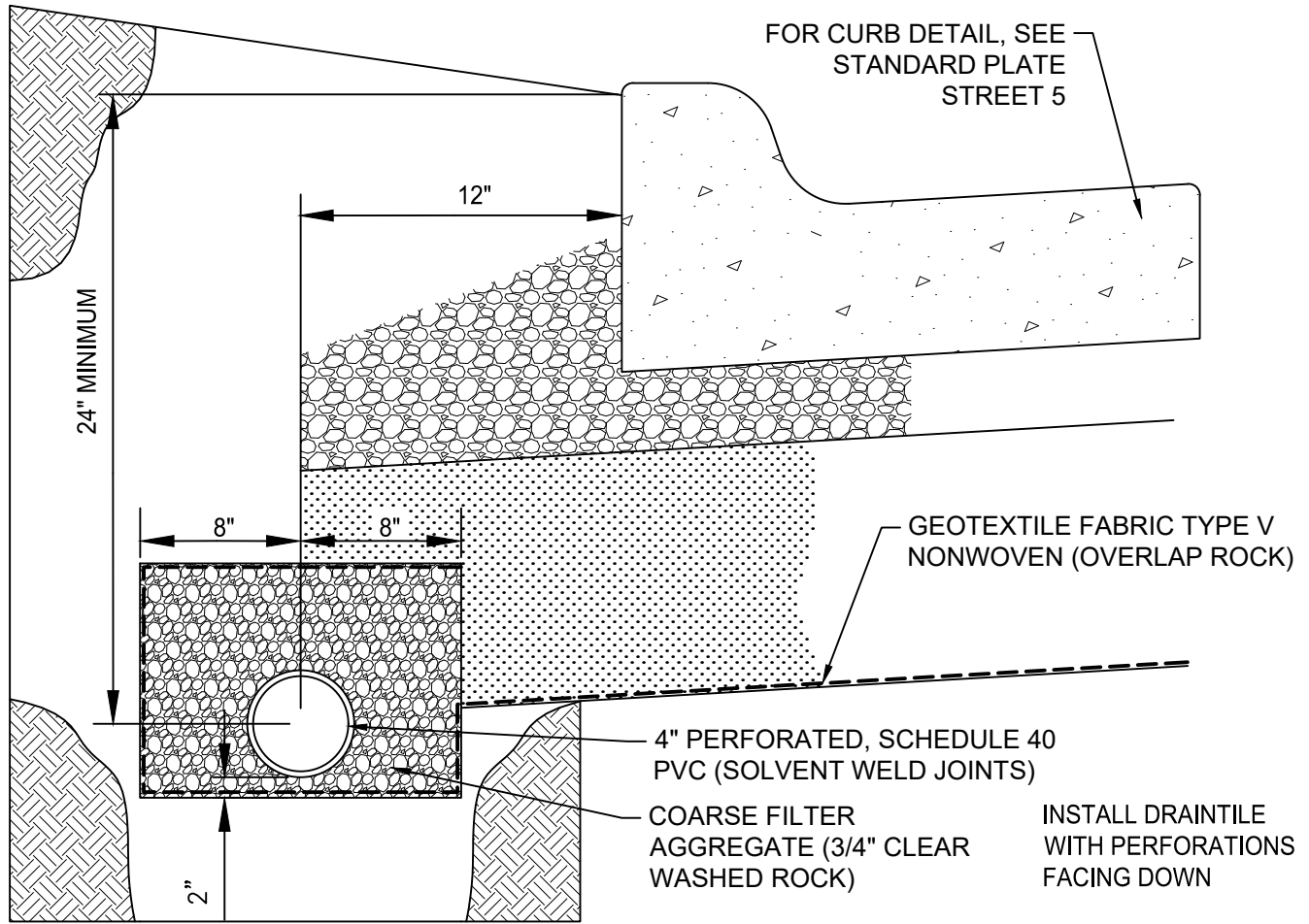
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PROJECT **STANDARD PLATES**

SHEET TITLE **PRIVATE DRIVE/  
 LONG DRIVEWAY**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2018	NPW	RWS	RWS	SCALE	2294-00	STR-3	



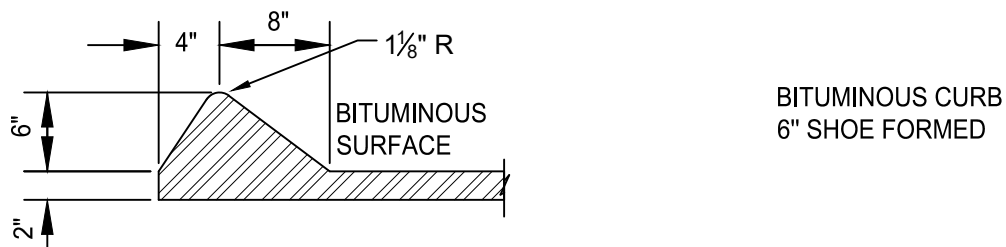
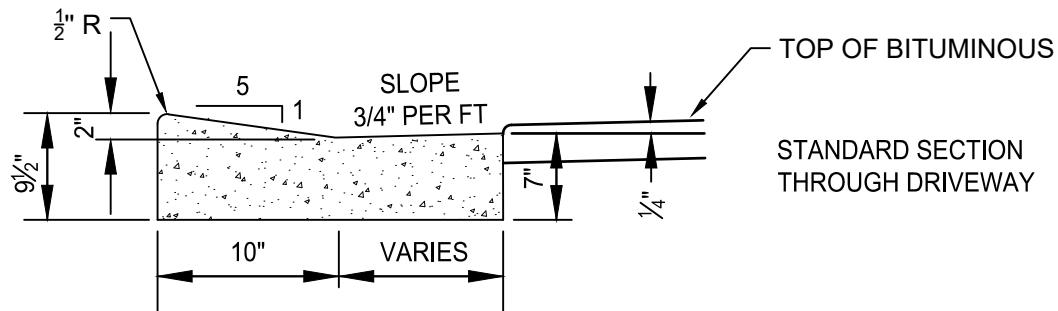
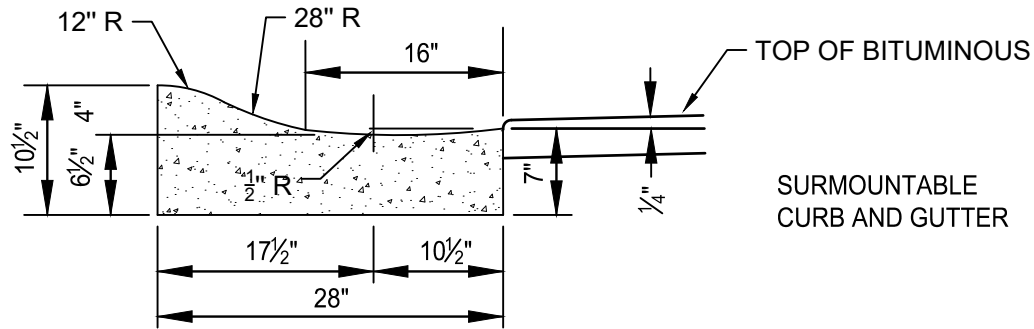
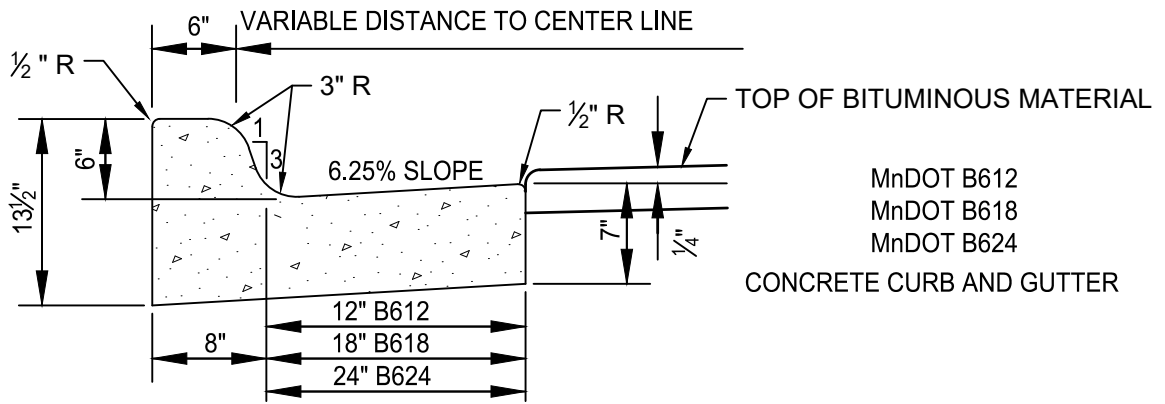
TRENCH DETAIL

NOTES:

- PLACE SUB-DRAIN BEHIND ALL CURB & GUTTER 250 LF IN EACH DIRECTION FROM CATCH BASINS LOCATED AT LOCALIZED LOW POINTS AND 150 LF UPSTREAM FROM CATCH BASINS LOCATED IN THE MID SLOPE.
- CONNECT SUB-DRAIN TO NEAREST CATCHBASIN. CONNECTION TO BE CORE-DRILLED. DOGHOUSES MUST BE GROUTED BOTH INSIDE AND OUTSIDE OF STRUCTURE.
- SLOPE SUB-DRAIN TO CATCH BASIN.
- SUBDRAIN MAY BE DAYLIGHTED TO DITCH AS APPROVED BY CITY ENGINEER.
- CLEANOUTS ARE REQUIRED AT A MAXIMUM OF 200 FOOT INTERVALS, AT BENDS, AND AT THE END OF THE RUN. SEE DETAIL STO-23 FOR CLEANOUT DETAIL.
- CLEANOUTS TO BE LOCATED ON PROPERTY CORNERS.
- IF CLEANOUT IS TO BE LOCATED WITHIN 50' OF CATCH BASIN. REMOVE CLEAN OUT AND TIE DRAIN TILE INTO THE CATCH BASIN

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			SHEET TITLE <b>ROAD SUB-DRAIN</b>							
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STR-4	





NOTES:

1. ONCE CURB AND GUTTER ARE INSTALLED, ENSURE EROSION CONTROL MEASURES ARE PROPERLY ESTABLISHED.
2. USE SUITABLE MATERIAL TO BACKFILL AREA BEHIND CURB.



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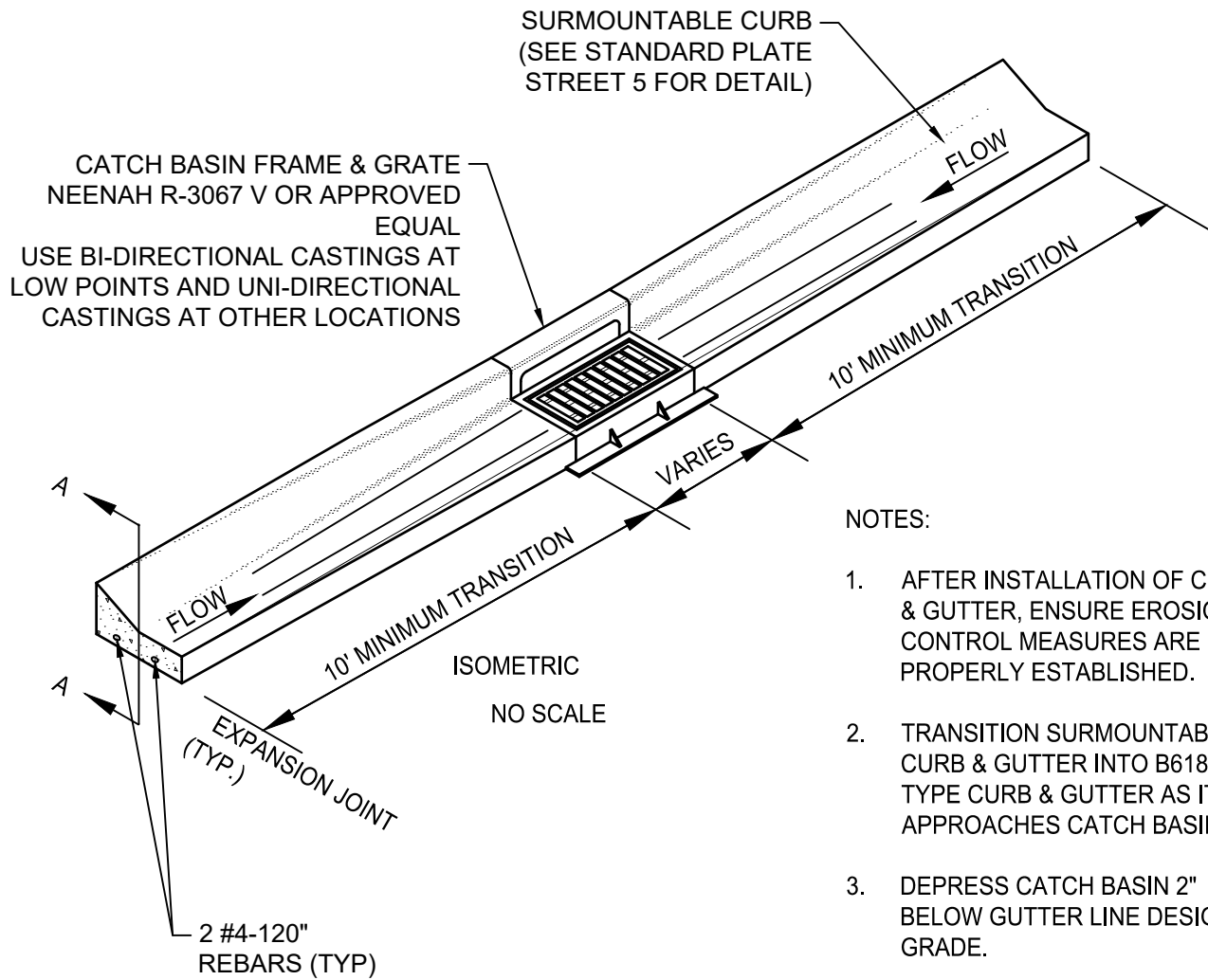
CLIENT  
 CITY OF CORCORAN

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PROJECT STANDARD PLATES

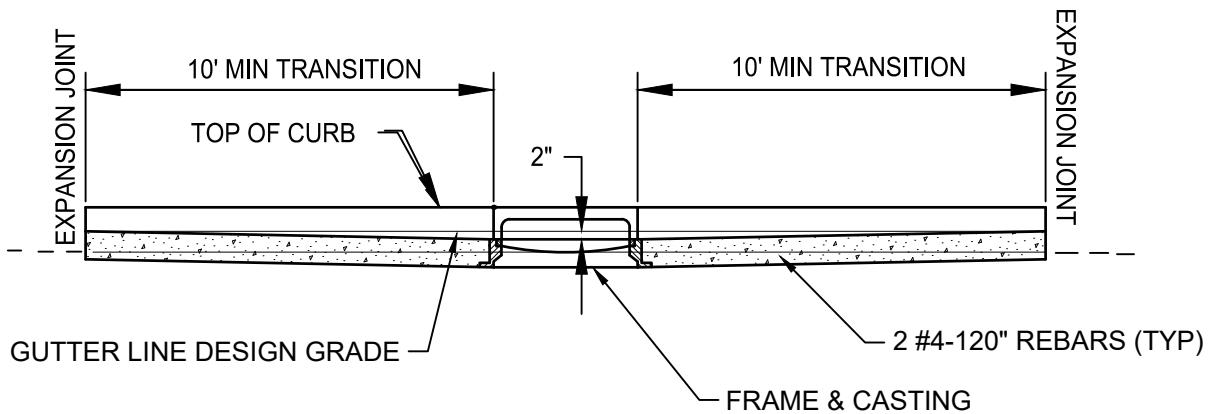
SHEET TITLE  
 CURB AND GUTTER

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2016	SKH	RWS	RWS	SCALE	2294-00	STR-5	



NOTES:

1. AFTER INSTALLATION OF CURB & GUTTER, ENSURE EROSION CONTROL MEASURES ARE PROPERLY ESTABLISHED.
2. TRANSITION SURMOUNTABLE CURB & GUTTER INTO B618 TYPE CURB & GUTTER AS IT APPROACHES CATCH BASIN.
3. DEPRESS CATCH BASIN 2" BELOW GUTTER LINE DESIGN GRADE.



SECTION A-A

NO SCALE



Responsive partner. Exceptional outcomes.  
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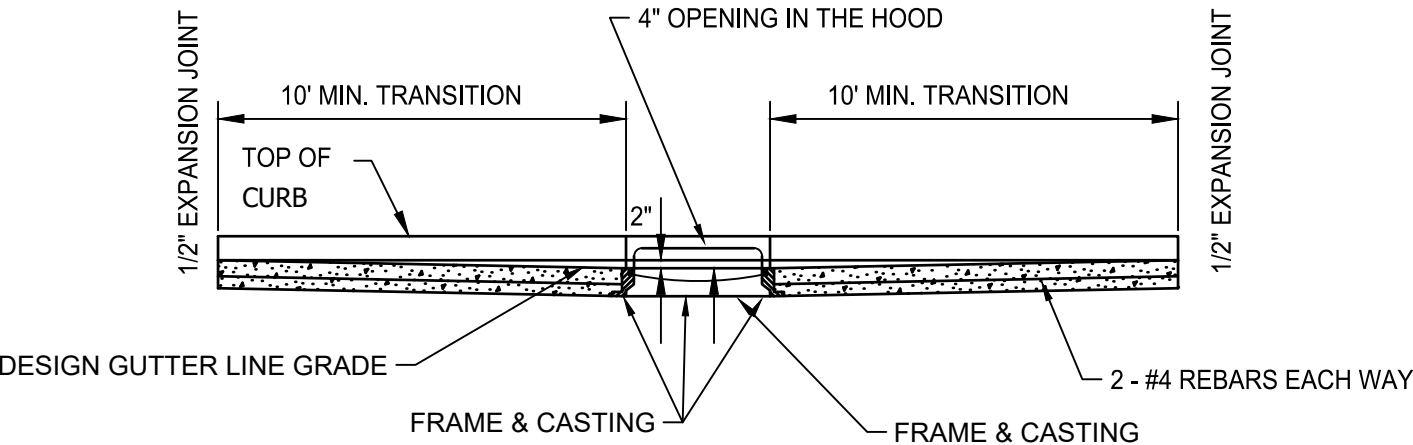
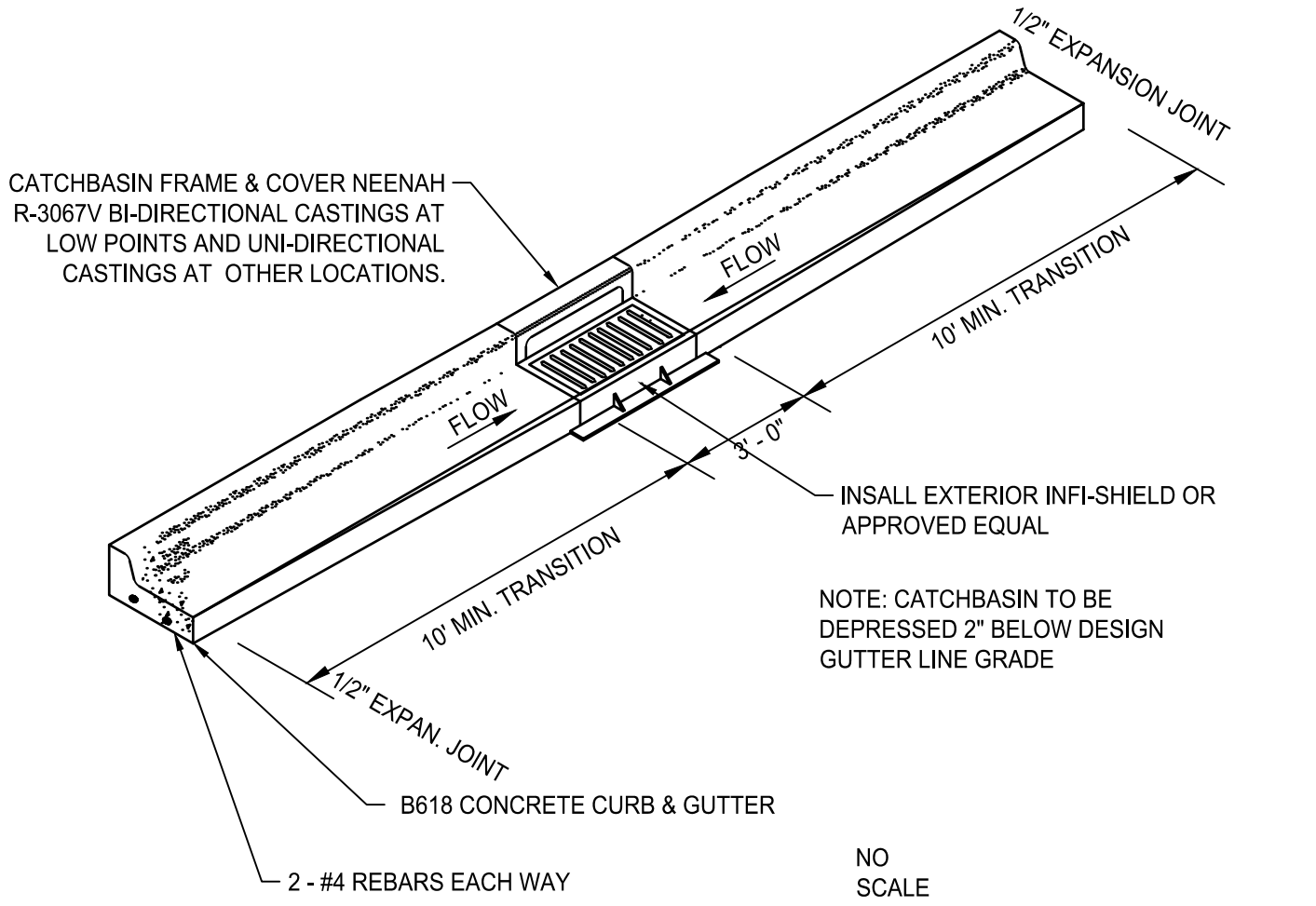
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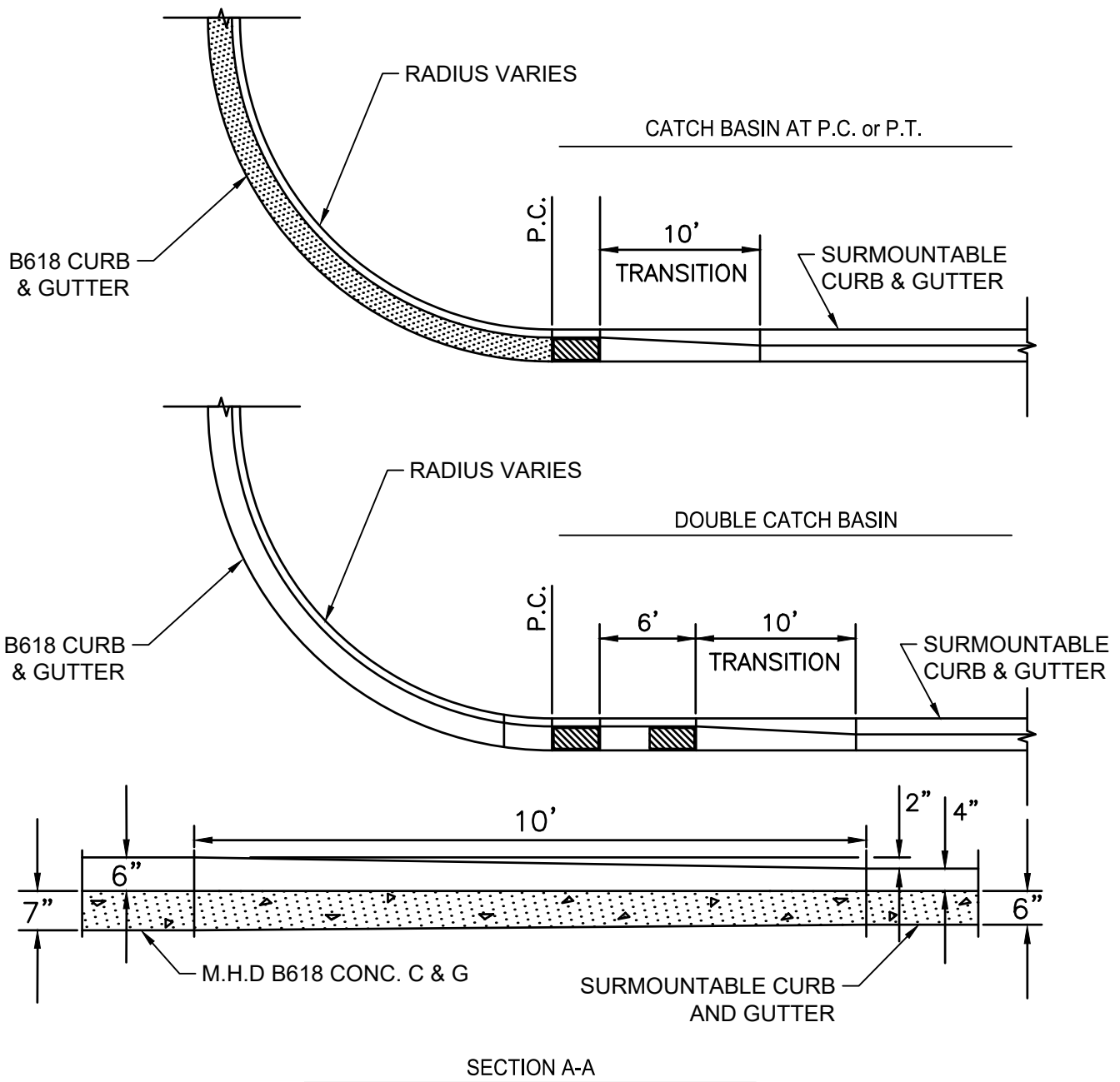
PROJECT STANDARD PLATES

SHEET TITLE  
 SURMOUNTABLE CURB  
 TRANSITION AT CATCH BASIN

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2019	SKH	RWS	RWS	SCALE	2294-00	STR-6	




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		SHEET TITLE <b>B618 CURB TRANSITION AT CATCH BASIN</b>								
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2019	SKH	RWS	RWS	SCALE	2294-00	STR-7	

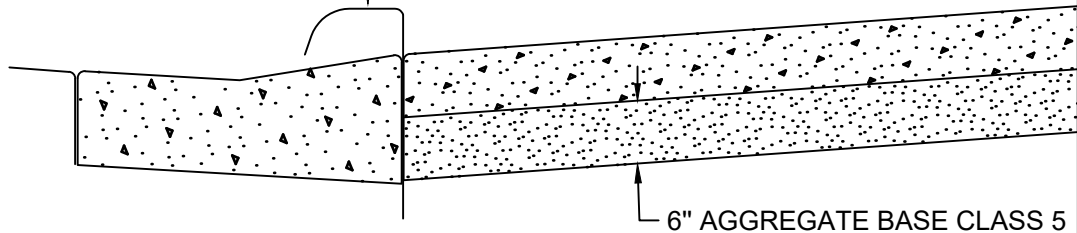


**NOTES:**

1. ALL RADII ARE MEASURED TO FACE OF CURB.
2. NO CATCH BASINS WILL BE CONSTRUCTED IN THE INTERSECTION RADII.
3. 30' RADII WILL BE REQUIRED AT INTERSECTIONS OF ALL COLLECTOR TO RESIDENTIAL STREETS.
4. 25' RADII WILL BE REQUIRED AT INTERSECTIONS OF ALL RESIDENTIAL TO RESIDENTIAL STREETS.

 <p>Responsive partner. Exceptional outcomes.  <small>1800 PIONEER CREEK CENTER 763-479-4200          MAPLE PLAIN, MN 55359 763-479-4242          Web Site: www.wenck.com</small></p>		CLIENT <b>CITY OF CORCORAN</b> T: \2294-Corcoran\Corcoran logo.jpg				PROJECT STANDARD PLATES						
		PROJECT NO. 2294-00				SHEET NO. <b>STR-8</b>		REV NO.				
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.		SHEET NO.		REV NO.
			JAN 2018	NPW	RWS	RWS	SCALE	2294-00		STR-8		

CONCRETE CURB AND GUTTER  
(SEE PLATE STR-5)



EXPAN. JOINT

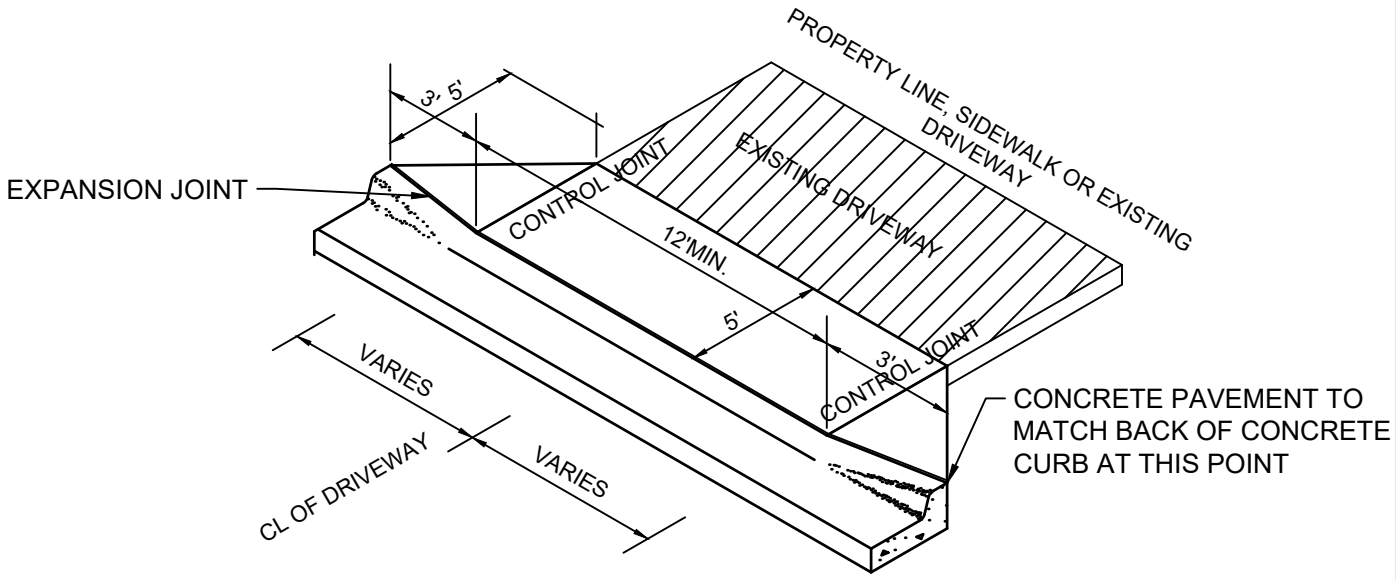
6" AGGREGATE BASE CLASS 5

PROPERTY LINE, SIDEWALK OR EXIST. DRIVEWAY

**DRIVEWAY SECTION**

NO SCALE

1. PANEL WIDTH SHALL NOT EXCEED 10 FEET WITHOUT A CONTRACTION JOINT.
2. DRIVEWAY TO BE ONE COURSE CONCRETE PAVEMENT.
3. 6" THICK FOR RESIDENTIAL DRIVE, 8" THICK FOR COMMERCIAL DRIVE AND ALLEY OR SPECIFIED.
4. MAXIMUM DRIVEWAY WIDTH = 24'.
5. MINIMUM DISTANCE FROM LOT LINE = 5' AS MEASURED 5 FEET FROM THE BACK OF CURB.
6. CAPS REQUIRED ON CURBSTOPS LOCATED IN DRIVEWAYS.
7. ALL DRIVEWAYS MUST BE AT LEAST 60' FROM INTERSECTIONS MEASURED FROM C-C TO CENTER OF DRIVEWAY.



CONCRETE PAVEMENT TO MATCH BACK OF CONCRETE CURB AT THIS POINT

NOTE: CONTROL JOINTS IN CONCRETE CURB NOT TO EXCEED 10' SPACING THROUGH DRIVEWAY SECTION.

**DRIVEWAY ISOMETRIC**

NO SCALE

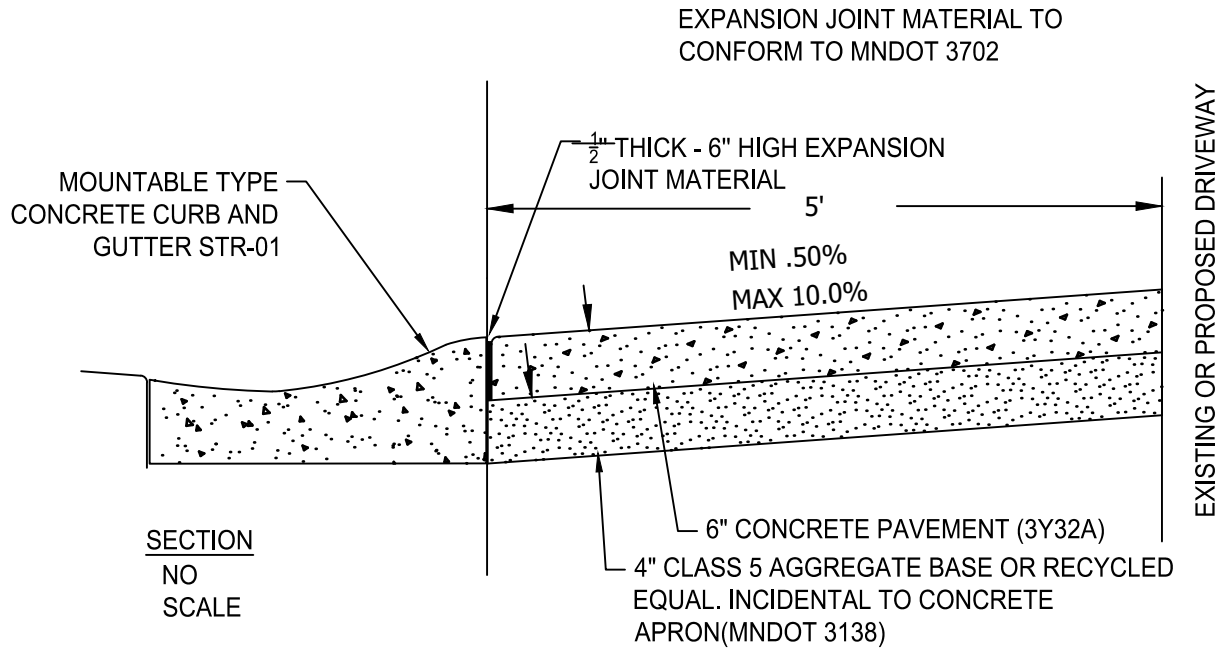
Responsive partner. Exceptional outcomes.  
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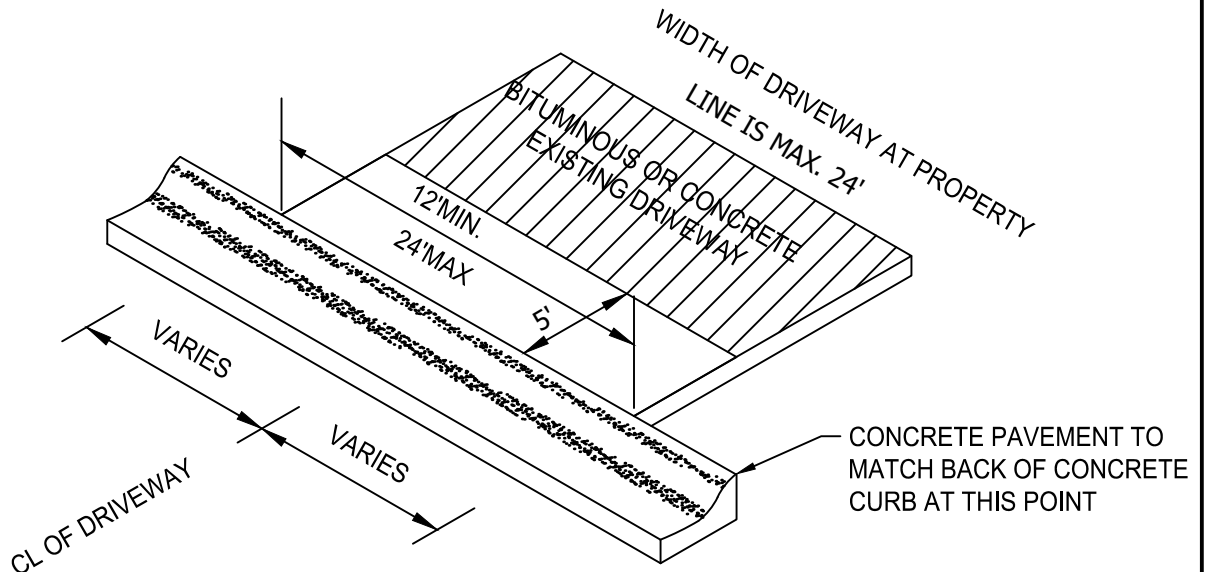
PROJECT  
STANDARD PLATES

SHEET TITLE  
**RESIDENTIAL DRIVEWAY APRON**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2016	SKH	RWS	RWS	SCALE	2294-00	STR-9	



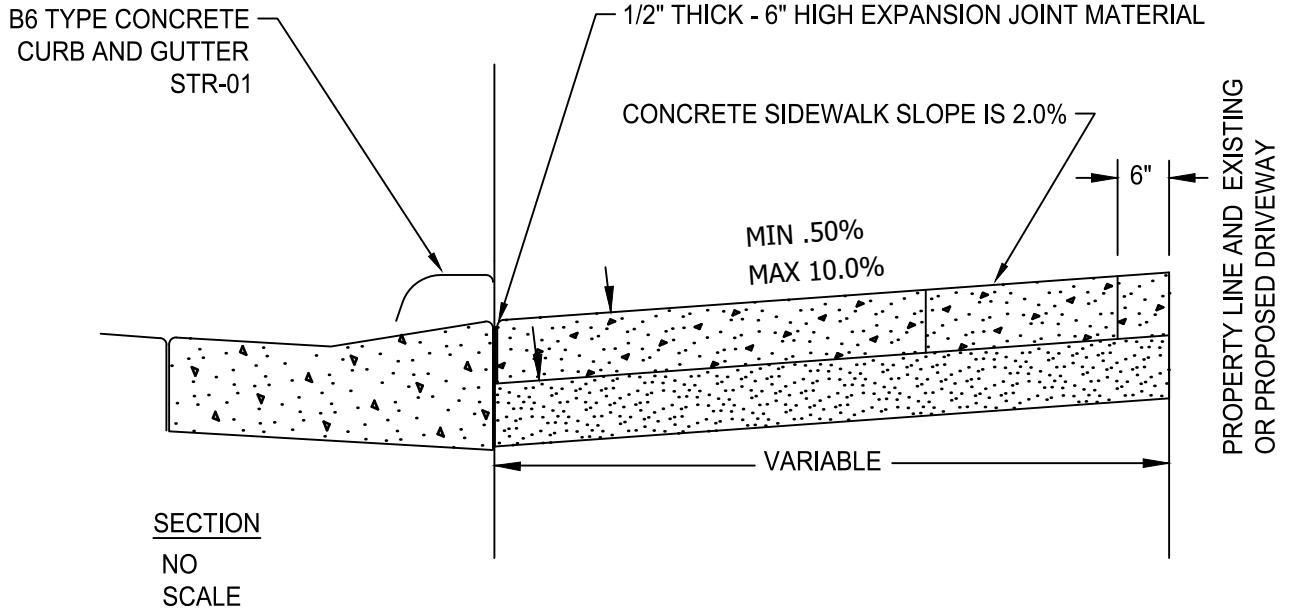
SECTION  
NO  
SCALE



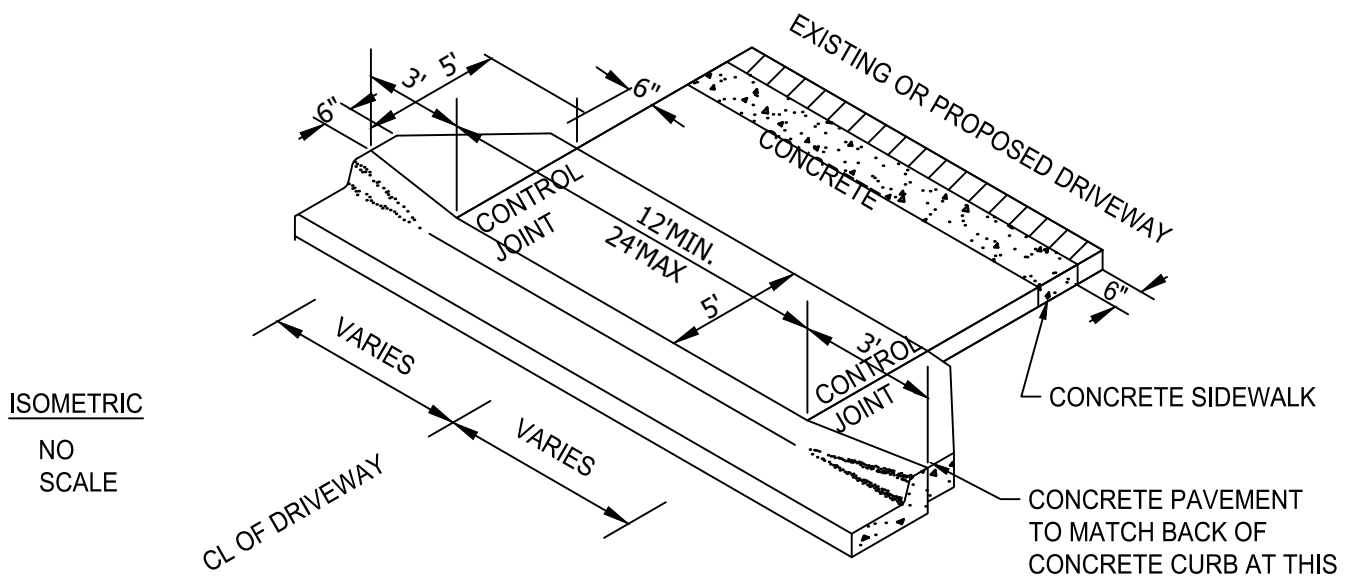
ISOMETRIC  
NO SCALE

- NOTE:
1. CONTROL JOINTS IN CONCRETE CURB NOT TO EXCEED 10' SPACING THROUGH DRIVEWAY SECTION.
  2. THE MAXIMUM DRIVEWAY WIDTH AT THE CURB IS 24'. MAXIMUM WIDTH OF DRIVEWAY AT THE PROPERTY LINE IS ALSO 24'.
  3. APRON NOT REQUIRED IN NEW DRIVEWAY CONSTRUCTION.

<p>Responsive partner. Exceptional outcomes. 1800 PIONEER CREEK CENTER 763-479-4200 MAPLE PLAIN, MN 55359 763-479-4242 Web Site: www.wenck.com</p>				CLIENT <b>CITY OF CORCORAN</b> T: \2294-Corcoran\Corcoran logo.jpg				PROJECT STANDARD PLATES			
				SHEET TITLE <b>RESIDENTIAL DRIVEWAY APRON (MOUNTABLE CURB)</b>							
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STR-10		




SECTION  
NO  
SCALE

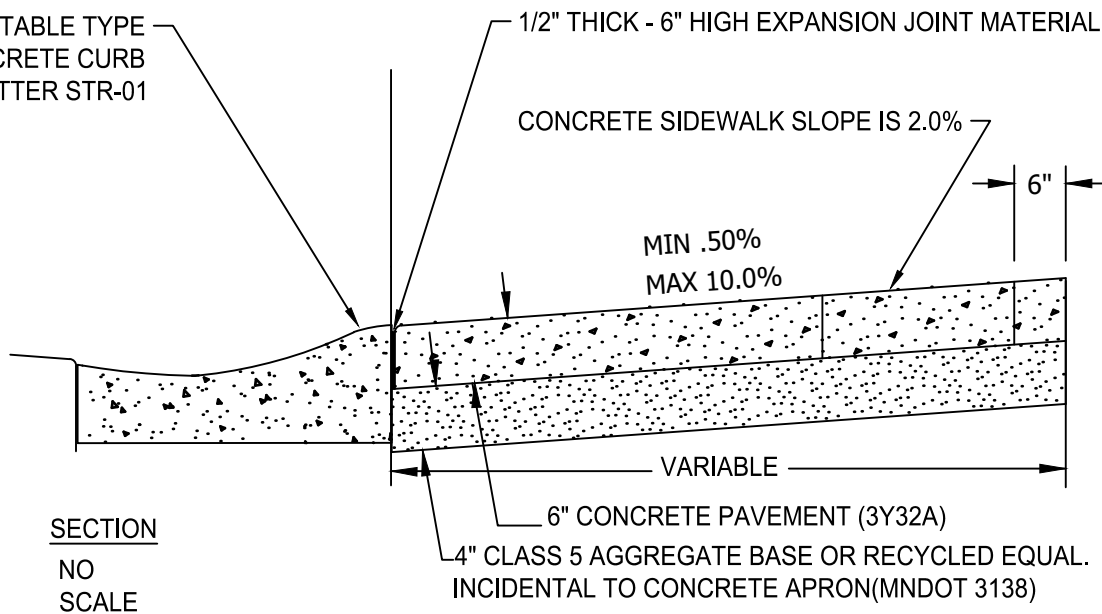


ISOMETRIC  
NO  
SCALE

- NOTE:
1. CONTROL JOINTS IN CONCRETE CURB NOT TO EXCEED 10' SPACING THROUGH DRIVEWAY SECTION.
  2. CONCRETE MUST BE CONSTRUCTED BETWEEN SIDEWALK AND DRIVEWAY APRON.
  3. CONCRETE SIDEWALK THROUGH DRIVEWAY IS 6" THICK.
  4. DRIVEWAY WINGS ARE REQUIRED WITH THE B6 STYLE CURBING. THE MAXIMUM DRIVEWAY WIDTH AT THE CURB IS 24' PLUS THE WIDTH OF THE WINGS. MAXIMUM WIDTH OF DRIVEWAY AT THE PROPERTY LINE IS ALSO 24'.

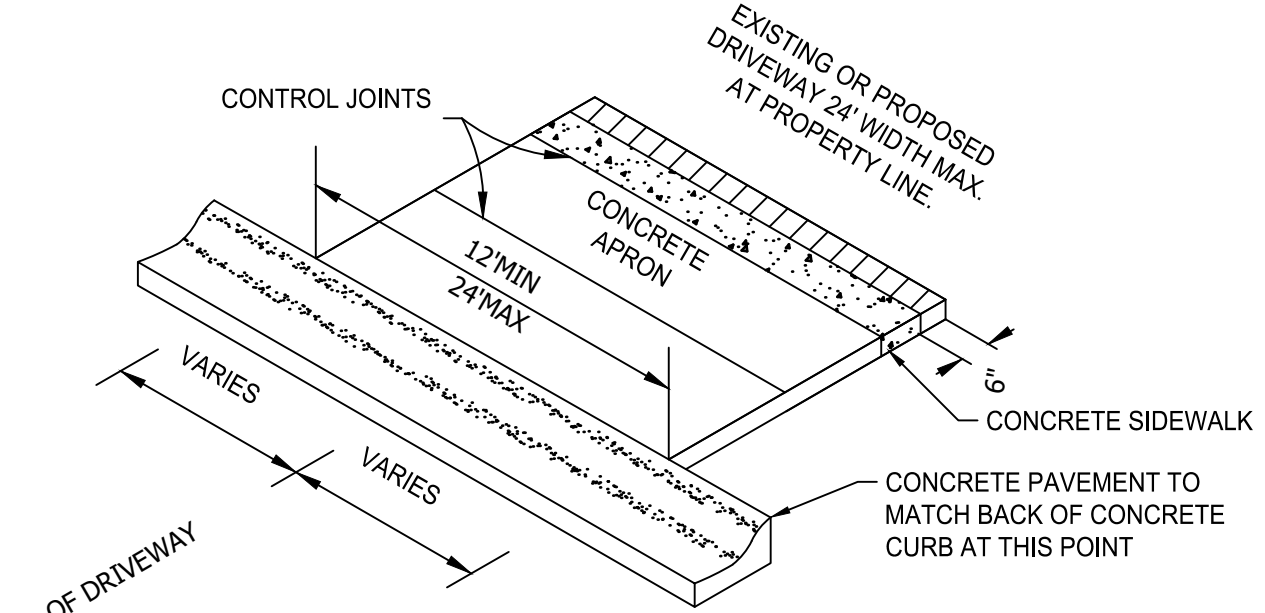
 <p>Responsive partner. Exceptional outcomes. 1800 PIONEER CREEK CENTER 763-479-4200 MAPLE PLAIN, MN 55359 763-479-4242 Web Site: www.wenck.com</p>				CLIENT <b>CITY OF CORCORAN</b> T: \2294-Corcoran\Corcoran logo.jpg				PROJECT STANDARD PLATES			
				SHEET TITLE <b>RESIDENTIAL DRIVEWAY APRON W/S.W. (B6 CURB)</b>				PROJECT NO. SHEET NO. REV NO. 2294-00 STR-11			
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE				
			JAN 2018	SKH	RWS	RWS	SCALE				

MOUNTABLE TYPE  
CONCRETE CURB  
AND GUTTER STR-01



SECTION  
NO  
SCALE

PROPERTY LINE AND  
EXISTING OR PROPOSED  
DRIVEWAY



ISOMETRIC  
NO  
SCALE

- NOTE:
1. CONTROL JOINTS IN CONCRETE CURB NOT TO EXCEED 10' SPACING THROUGH DRIVEWAY SECTION.
  2. CONCRETE MUST BE CONSTRUCTED BETWEEN SIDEWALK AND DRIVEWAY APRON.
  3. CONCRETE SIDEWALK THROUGH DRIVEWAY IS 6" THICK.
  4. THE MAXIMUM DRIVEWAY WIDTH AT THE CURB IS 24'. MAXIMUM WIDTH OF DRIVEWAY AT THE PROPERTY LINE IS ALSO 24'.



Responsive partner. Exceptional outcomes.  
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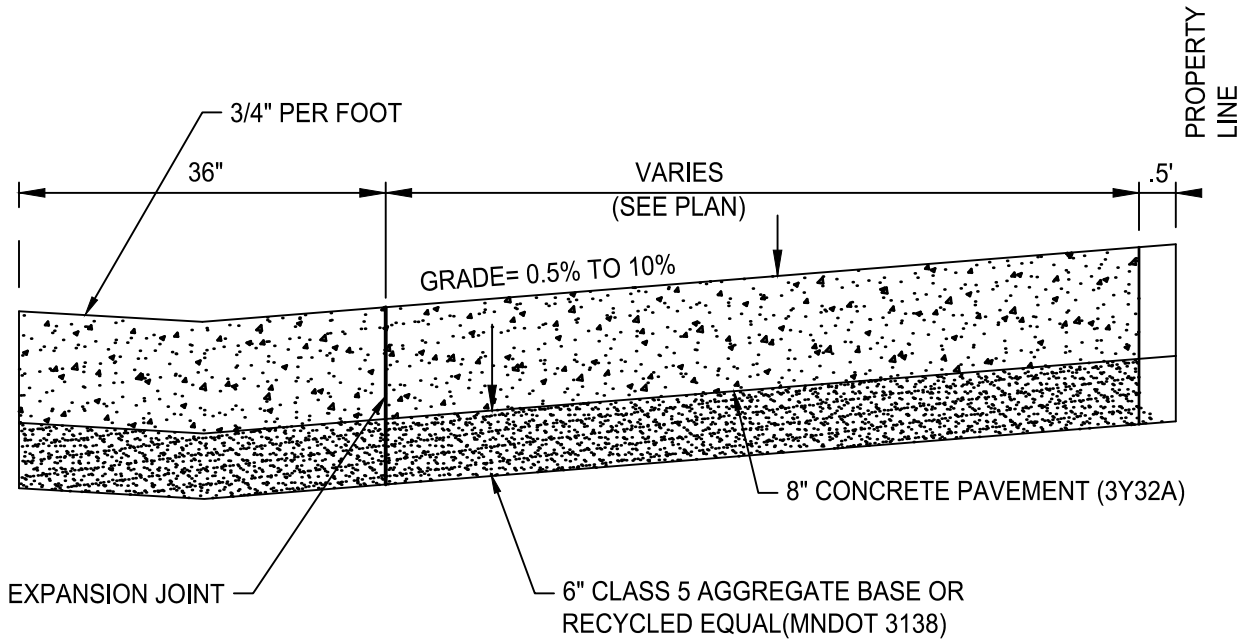
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CITY OF CORCORAN  
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PROJECT STANDARD PLATES

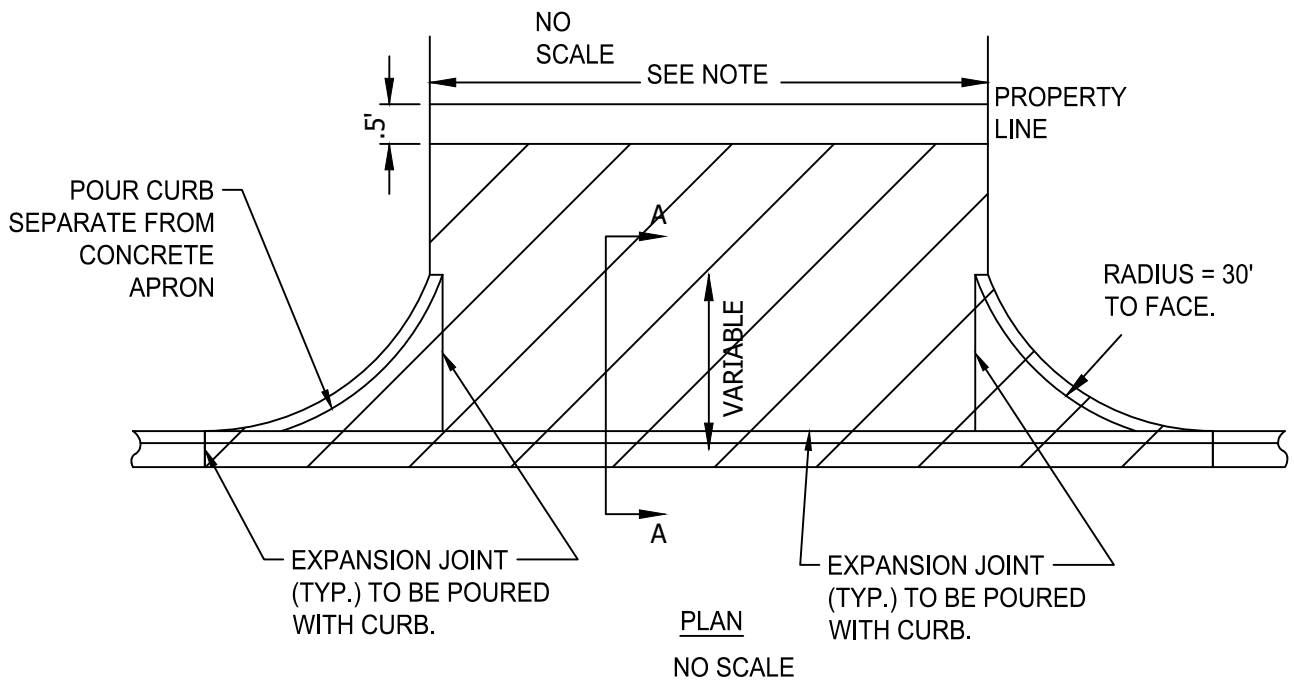
SHEET TITLE RESIDENTIAL DRIVEWAY APRON  
W/S.W. (MOUNTABLE CURB)

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2021	SKH	RWS	RWS	SCALE	2294-00	STR-12	





SECTION A-A



NOTE:  
MAX COMMERCIAL DRIVEWAY WIDTH TO BE 32' AT RIGHT-OF-WAY.

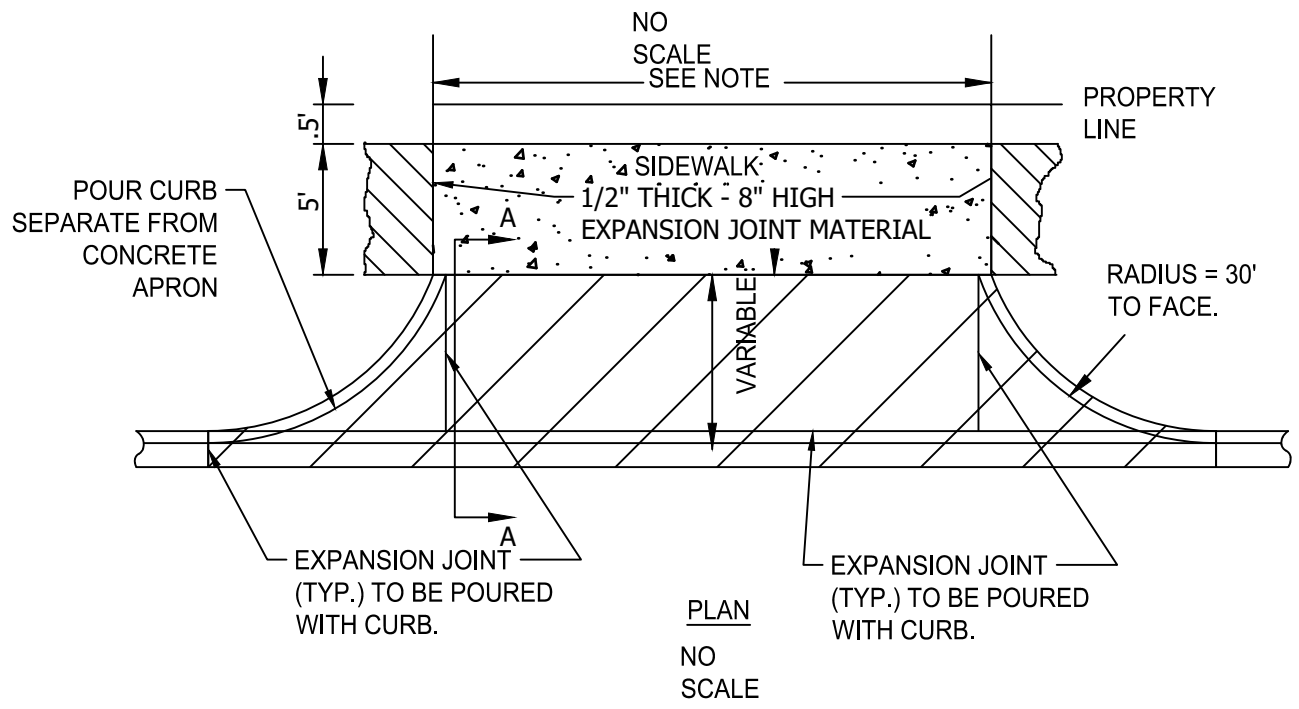
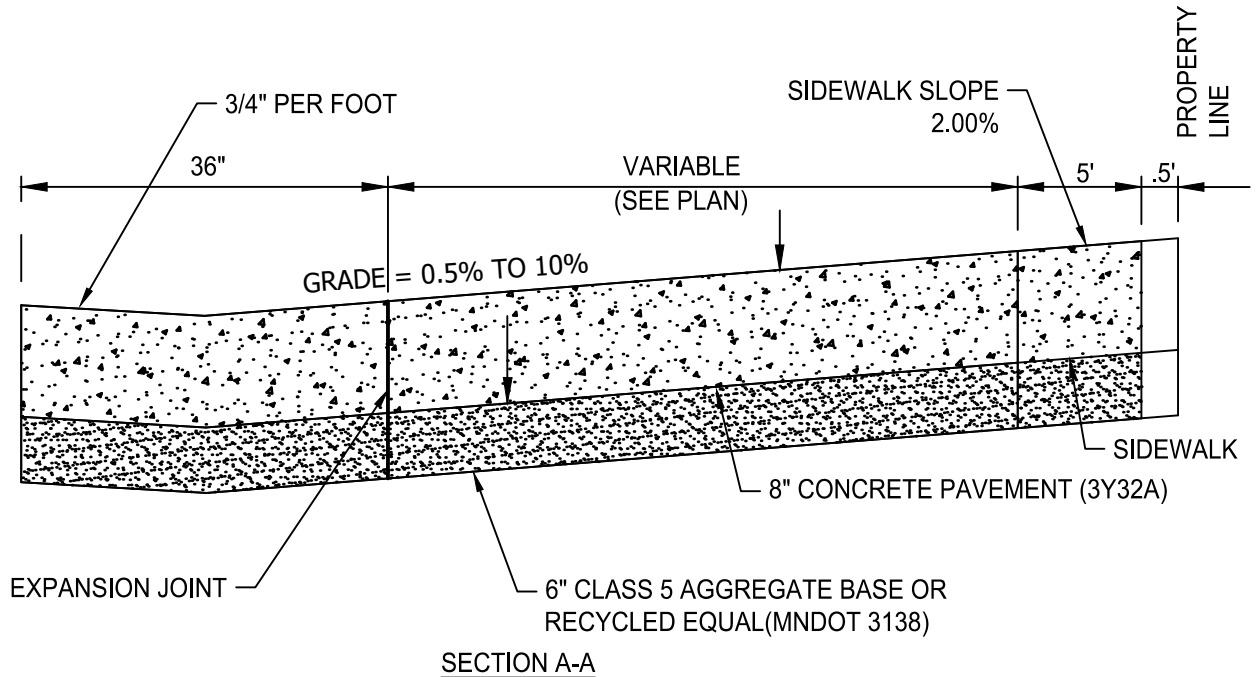


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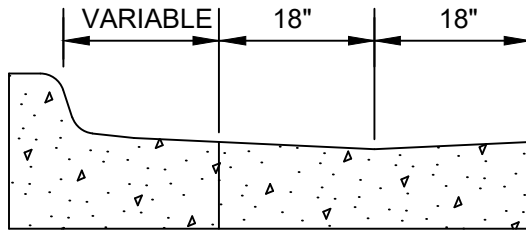
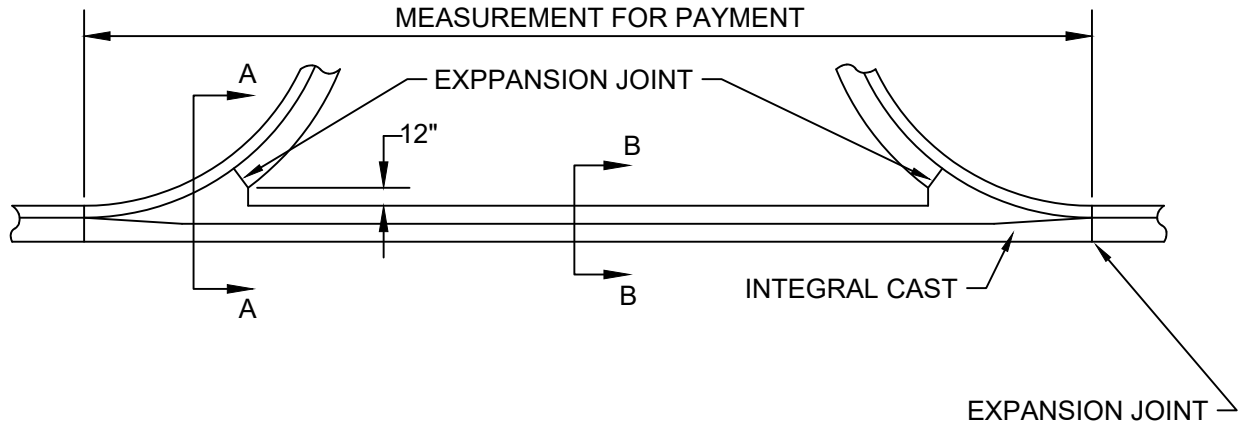
PROJECT STANDARD PLATES  
SHEET TITLE COMMERCIAL CONCRETE DRIVEWAY APRON

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
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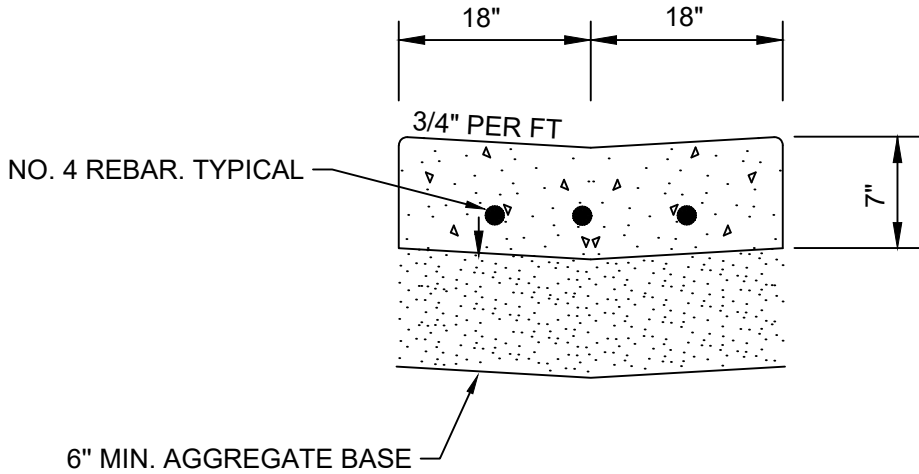


NOTE:  
MAX COMMERCIAL DRIVEWAY WIDTH TO BE 32' AT RIGHT-OF-WAY.

<p>Responsive partner. Exceptional outcomes.</p> <p>1800 PIONEER CREEK CENTER 763-479-4200 MAPLE PLAIN, MN 55359 763-479-4242 Web Site: www.wenck.com</p>				CLIENT <b>CITY OF CORCORAN</b> T: \2294-Corcoran\Corcoran logo.jpg				PROJECT STANDARD PLATES			
								SHEET TITLE <b>COMMERCIAL CONCRETE DRIVEWAY APRON W/S.W.</b>			
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
			JAN 2018	SKH	RWS	RWS	SCALE	2294-00	STR-14		



SECTION A-A  
THRU B618 C&G



SECTION B-B THRU  
CONCRETE GUTTER



Responsive partner. Exceptional outcomes.

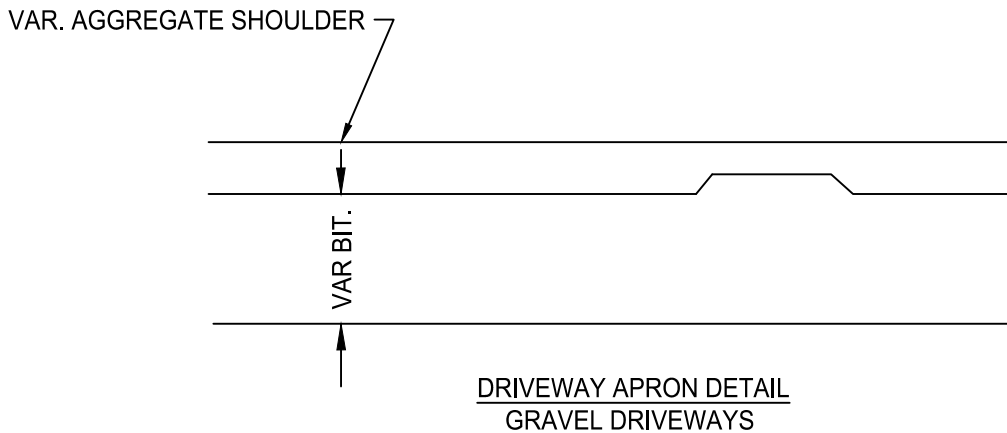
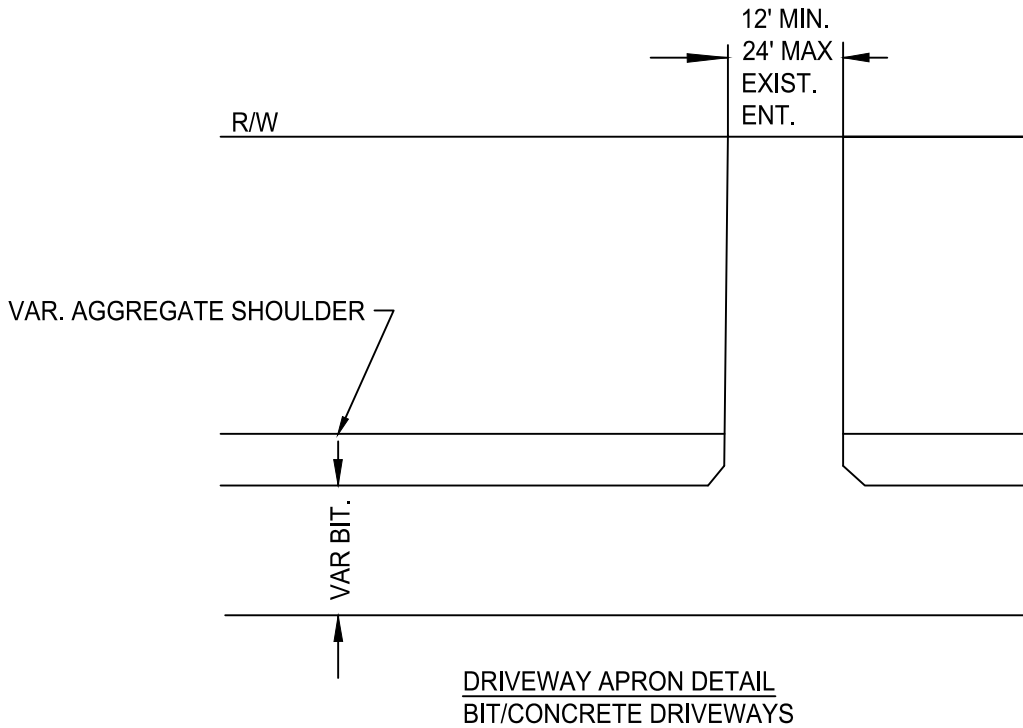
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PROJECT STANDARD PLATES


SHEET TITLE  
**CONCRETE VALLEY GUTTER**

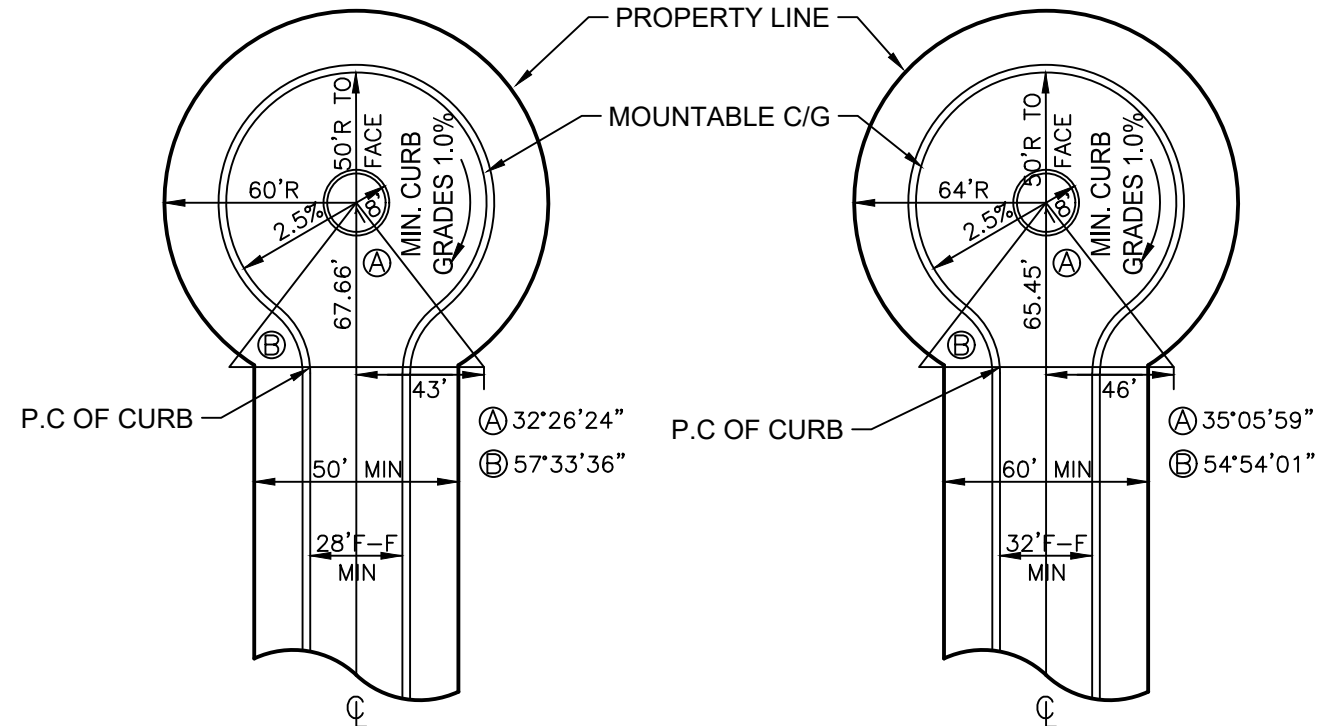
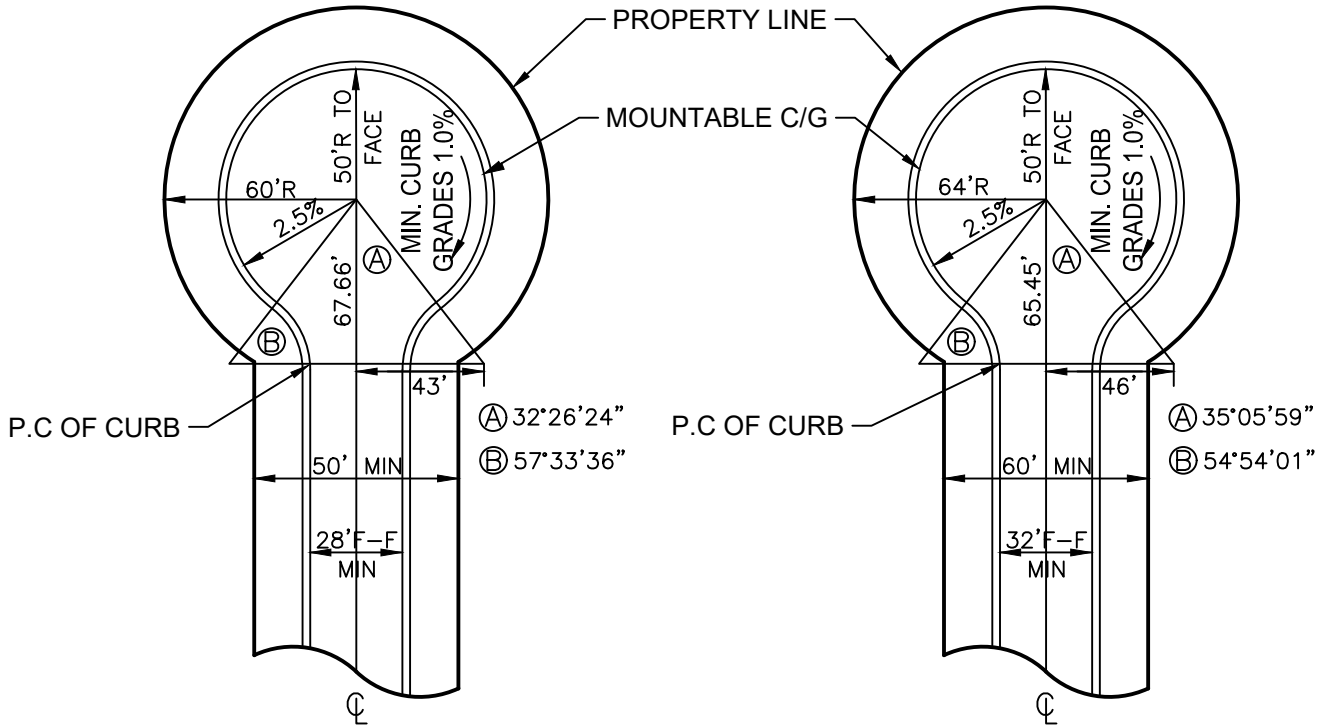
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			MAR 2016	SKH	RWS	RWS	SCALE	2294-00	STR-15	



**NOTES:**


1. FIELD ENTRANCES TO BE TREATED AS GRAVEL DRIVEWAYS
2. MINIMUM DRIVEWAY SLOPE = 0.50%
3. MAXIMUM DRIVEWAY SLOPE = 10.0%

 Responsive partner. Exceptional outcomes. <small>1800 PIONEER CREEK CENTER 763-479-4200                  MAPLE PLAIN, MN 55359 763-479-4242                  Web Site: www.wenck.com</small>				CLIENT <b>CITY OF CORCORAN</b> T: \2294-Corcoran\Corcoran logo.jpg				PROJECT STANDARD PLATES			
				SHEET TITLE <b>RESIDENTIAL DRIVEWAY APRON RURAL ROAD SECTION</b>				PROJECT NO. 2294-00		SHEET NO. <b>STR-16</b>	
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE				
			JAN 2018	SKH	RWS	RWS	SCALE				



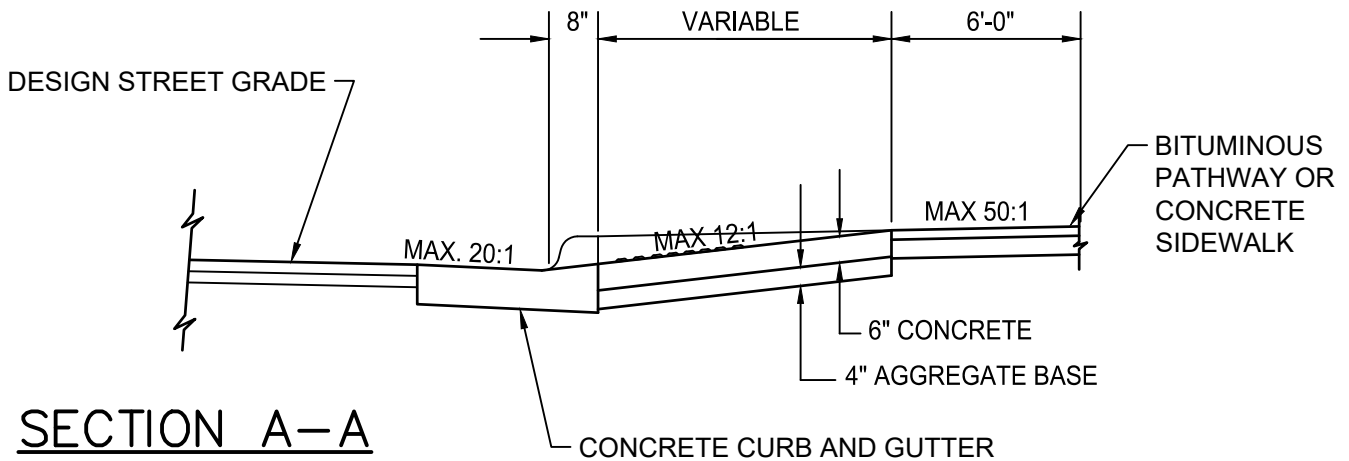
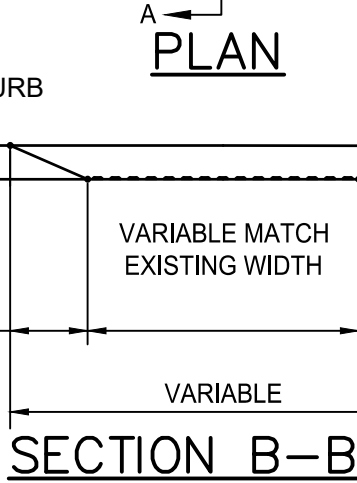
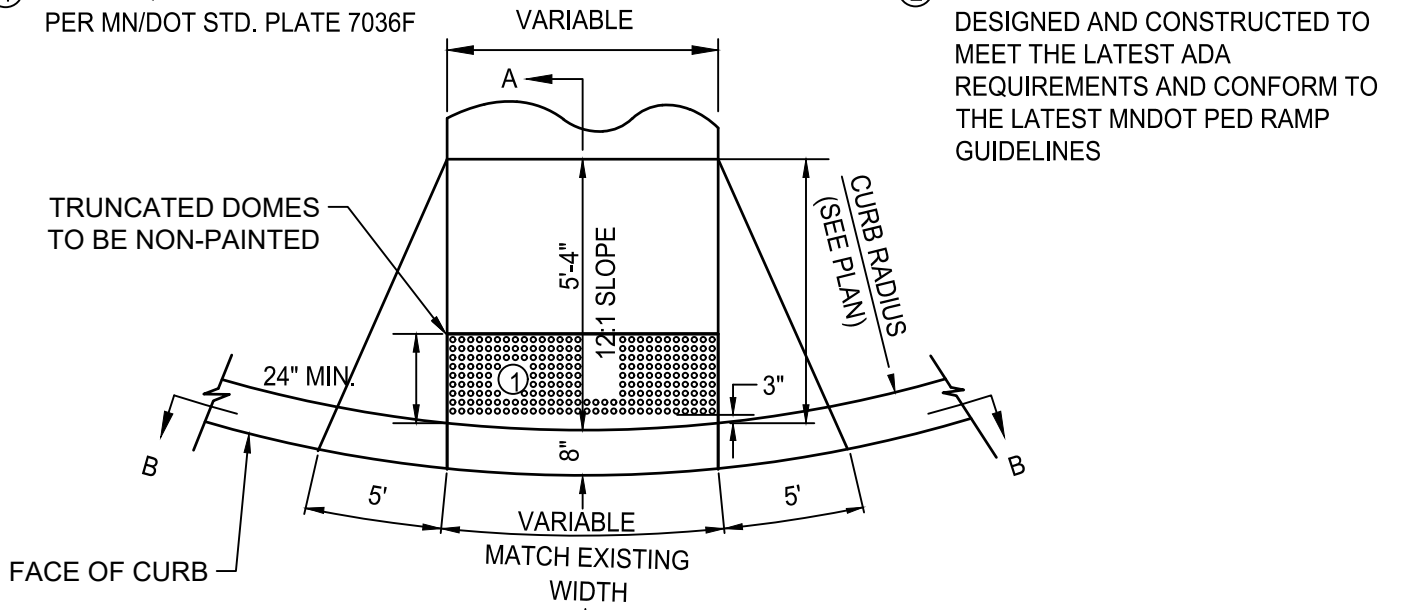
NOTES:

1. ALL RADIUS MEASUREMENTS TAKEN FROM FACE OF CURB.
2. ALL CENTER ISLAND SURFACES MUST BE APPROVED BY CITY AND PRIVATELY MAINTAINED

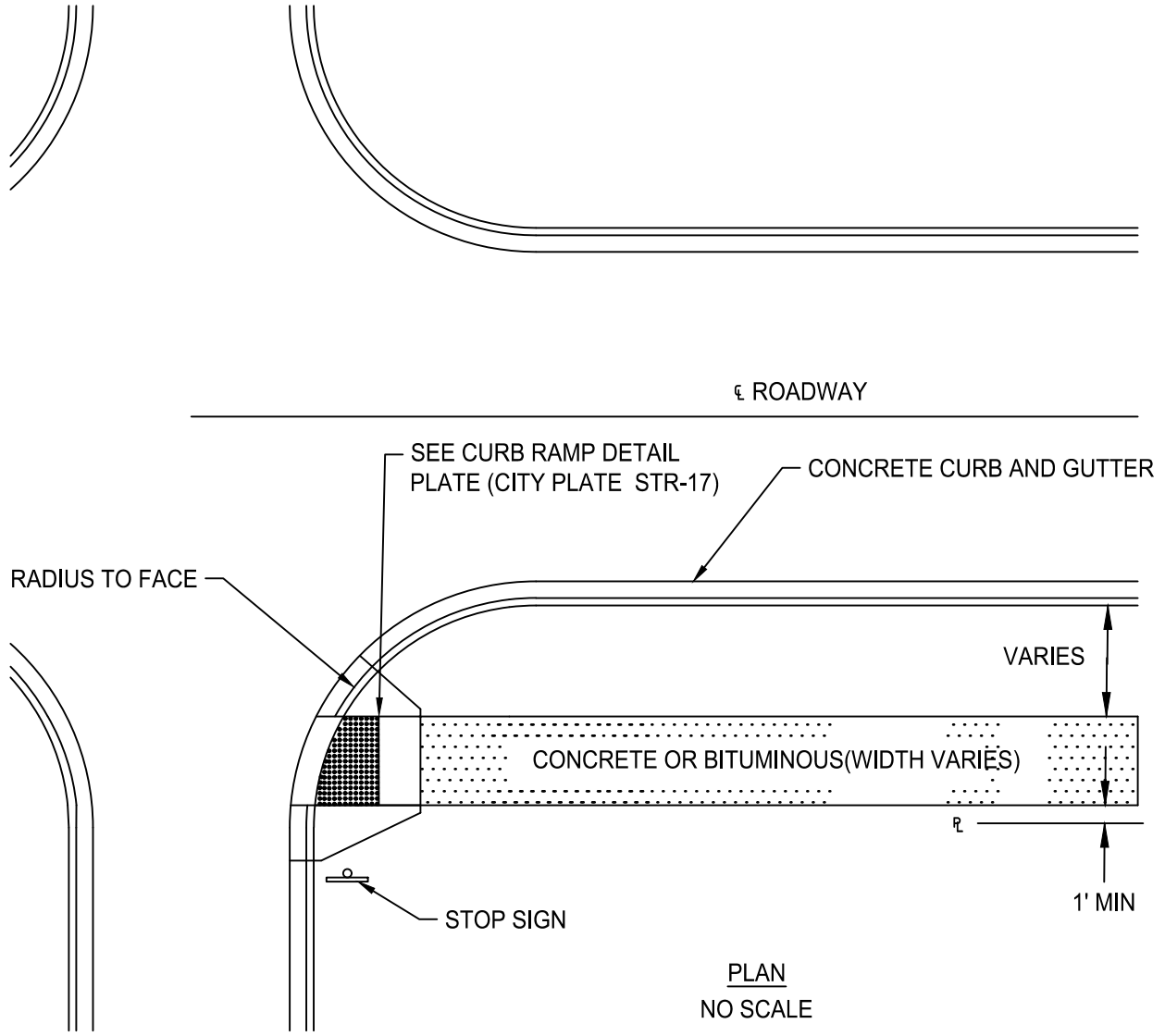
 <p>Responsive partner. Exceptional outcomes.</p> <p>1800 PIONEER CREEK CENTER 763-479-4200          MAPLE PLAIN, MN 55359 763-479-4242          Web Site: www.wenck.com</p>				CLIENT <b>CITY OF CORCORAN</b> T: \2294-Corcoran\Corcoran logo.jpg				PROJECT STANDARD PLATES			
				SHEET TITLE <b>TYPICAL 50' R/W AND 60' R/W CUL-DE-SACS</b>							
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
			MAR 2016	SKH	RWS	RWS	SCALE	2294-00	STR-17		

① ADA REQUIRED TRUNCATED DOME PER MN/DOT STD. PLATE 7036F

② ALL PEDESTRIAN RAMPS SHALL BE DESIGNED AND CONSTRUCTED TO MEET THE LATEST ADA REQUIREMENTS AND CONFORM TO THE LATEST MNDOT PED RAMP GUIDELINES



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		SHEET TITLE <b>SIDEWALK CURB RAMP</b>								
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			MAR 2016	SKH	RWS	RWS	SCALE	2294-00	STR-18	



NOTE: DIMENSIONS DEPEND ON TYPE OF PATHWAY OR SIDEWALK.

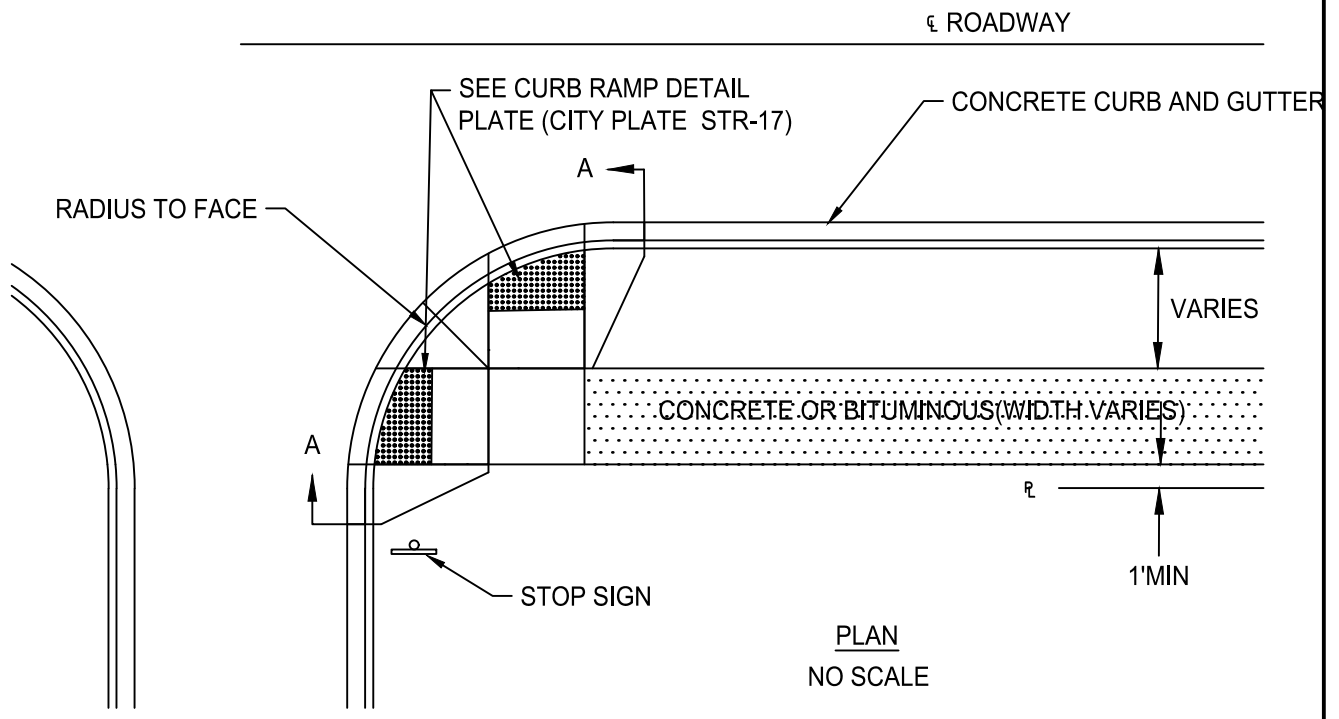
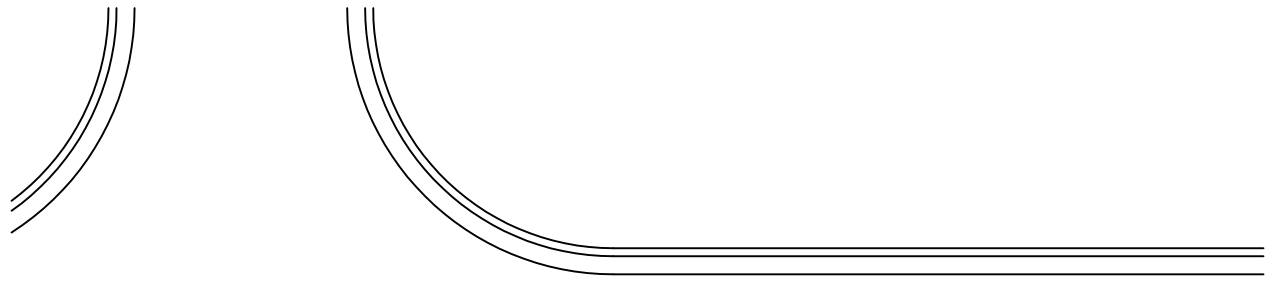


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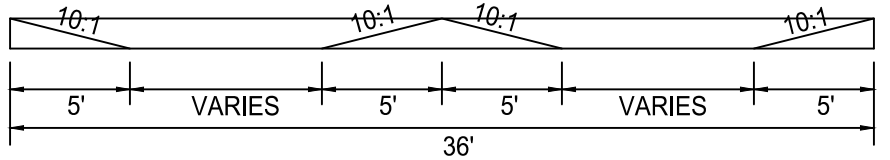
CLIENT  
CITY OF CORCORAN  
T: \2294-Corcoran\Corcoran logo.jpg

PROJECT STANDARD PLATES  
SHEET TITLE SIDEWALK/BIKE PATH CURB RAMP GENERAL LOCATION

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2018	SKH	RWS	RWS	SCALE	2294-00	STR-19	



ENGINEER MAY DETERMINE THAT RADIAL DOMES ARE NECESSARY IF TRANSITION DISTANCE BETWEEN TWO LANDING AREAS IS NOT SUFFICIENT OR IF DETERMINED NECESSARY BY ENGINEER.



SECTION A-A  
PROFILE  
NO SCALE

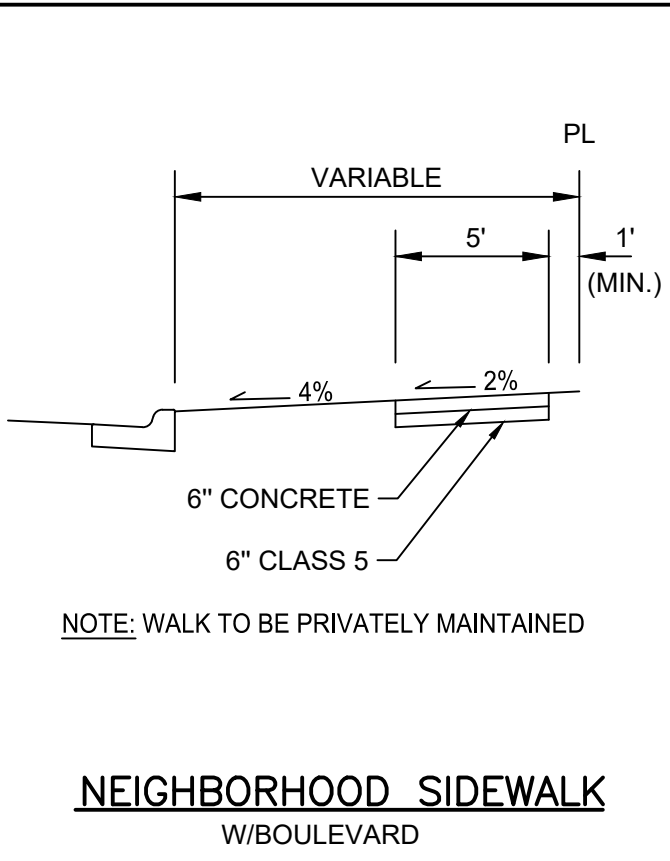
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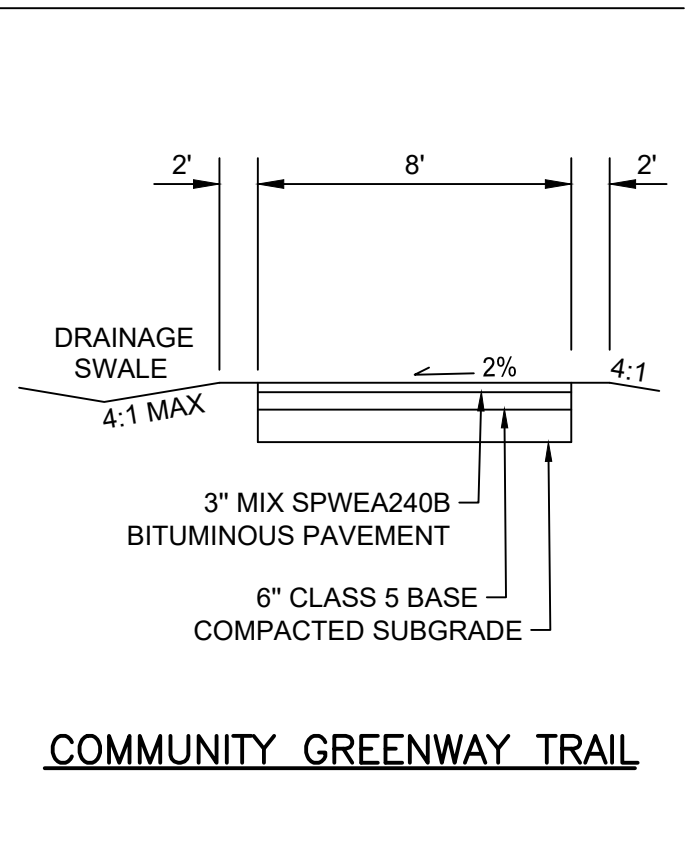
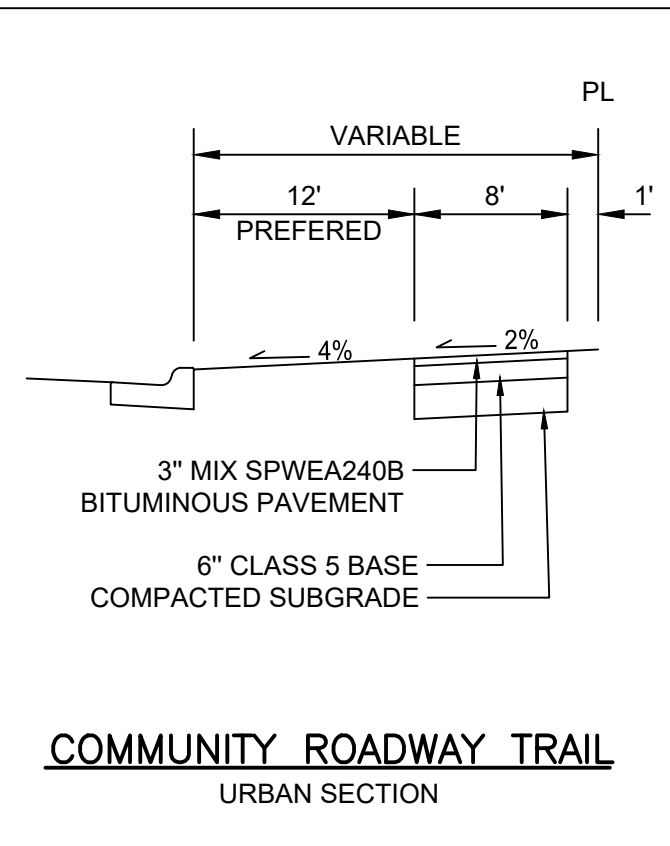
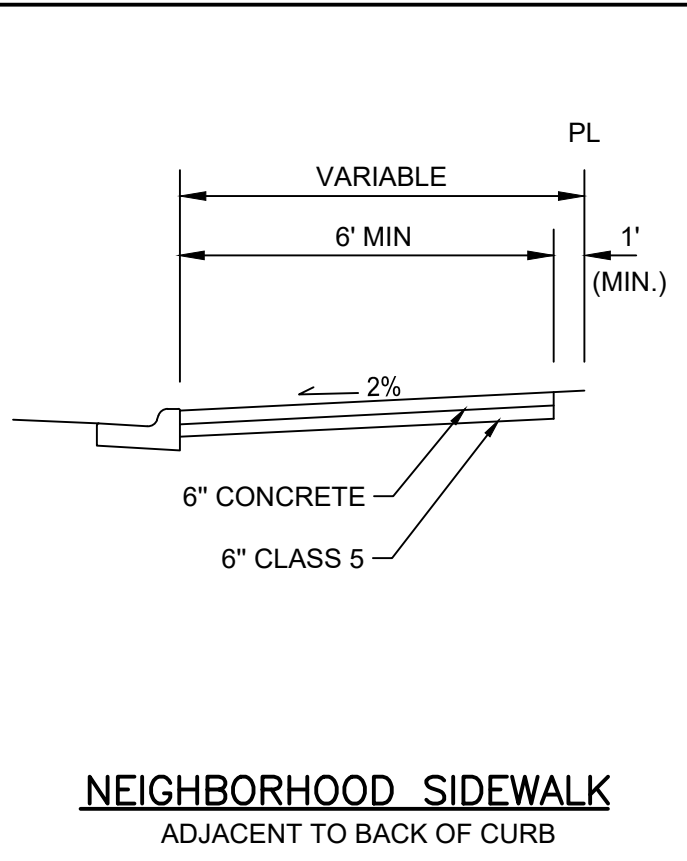
PROJECT STANDARD PLATES  
SHEET TITLE DOUBLE SIDEWALK/BIKE PATH CURB RAMP


REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2018	SKH	RWS	RWS	SCALE	2294-00	STR-20	

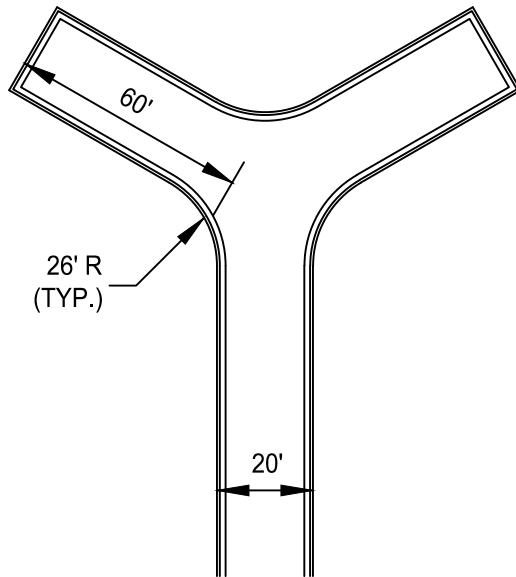
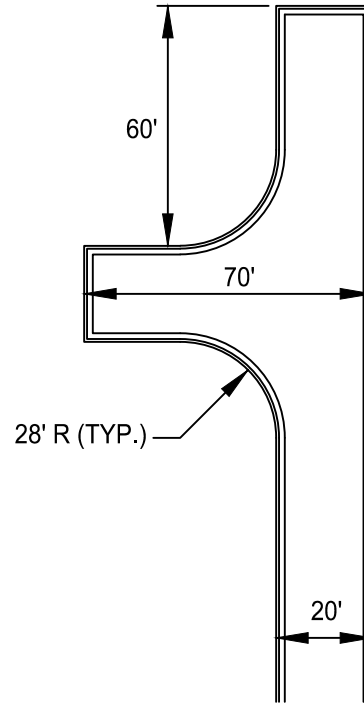
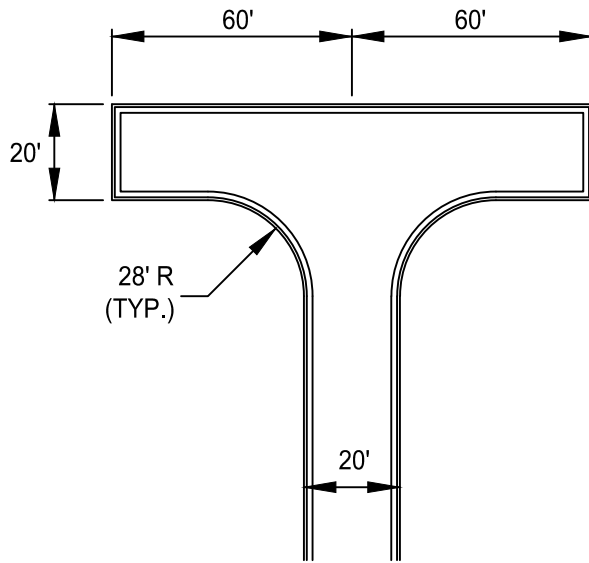




NOTE: WALK TO BE PRIVATELY MAINTAINED



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		SHEET TITLE <b>CONCRETE WALKS AND BITUMINOUS TRAILS</b>								
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			MAR 2021	SKH	RWS	RWS	SCALE	2294-00	STR-21	



NOTES:

1. FIRE DEPARTMENT REQUIREMENTS FOR APPROVED ALTERNATE TURNAROUNDS ON FIRE DEPARTMENT ACCESS ROADS, AS REQUIRED BY MINNESOTA STATE FIRE CODE, 2015 EDITION
2. TURNAROUNDS MAY BE SUBSTITUTED FOR CUL-DE-SACS IN PRIVATE DEVELOPMENTS WITH THE CITY ENGINEER'S APPROVAL.
3. CUL-DE-SAC TO BE CONSTRUCTED WITH A 45' RADIUS (MINIMUM).



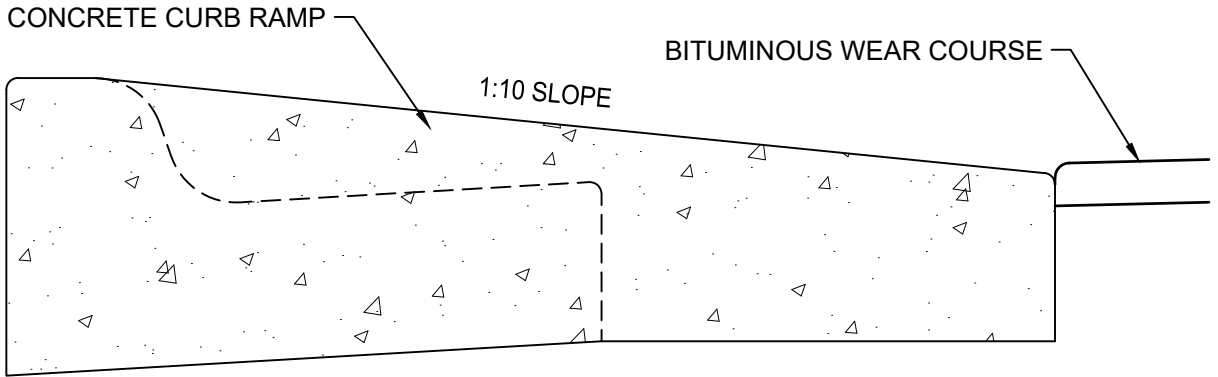
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PROJECT STANDARD PLATES

SHEET TITLE PRIVATE DEVELOPMENT TURNAROUND

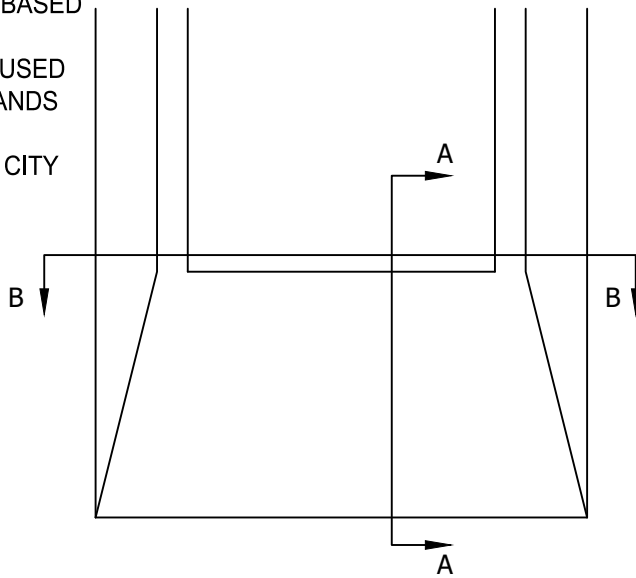
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			JAN 2019	SKH	RWS	RWS	SCALE	2294-00	STR-22	



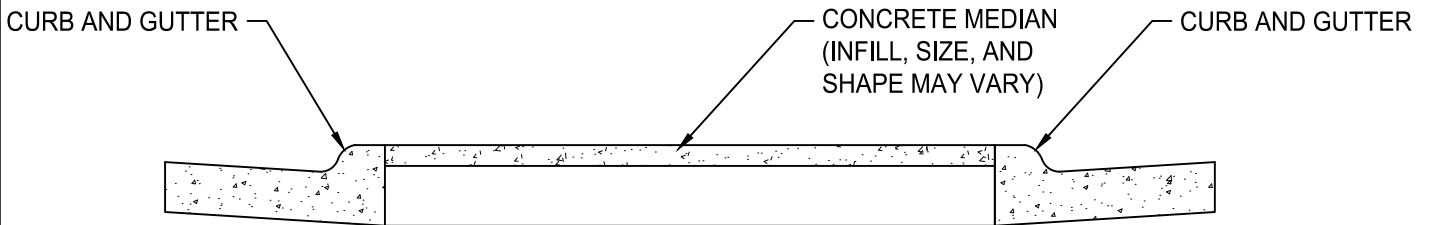
**SECTION A-A**

**NOTES:**

1. RADIUS WILL VARY BASED ON ISLAND SIZE.
2. CURB RAMP TO BE USED WHEN CENTER ISLANDS ARE PRESENT. COORDINATE WITH CITY ENGINEER.



**PLAN**



**SECTION B-B**



Responsive partner. Exceptional outcomes.

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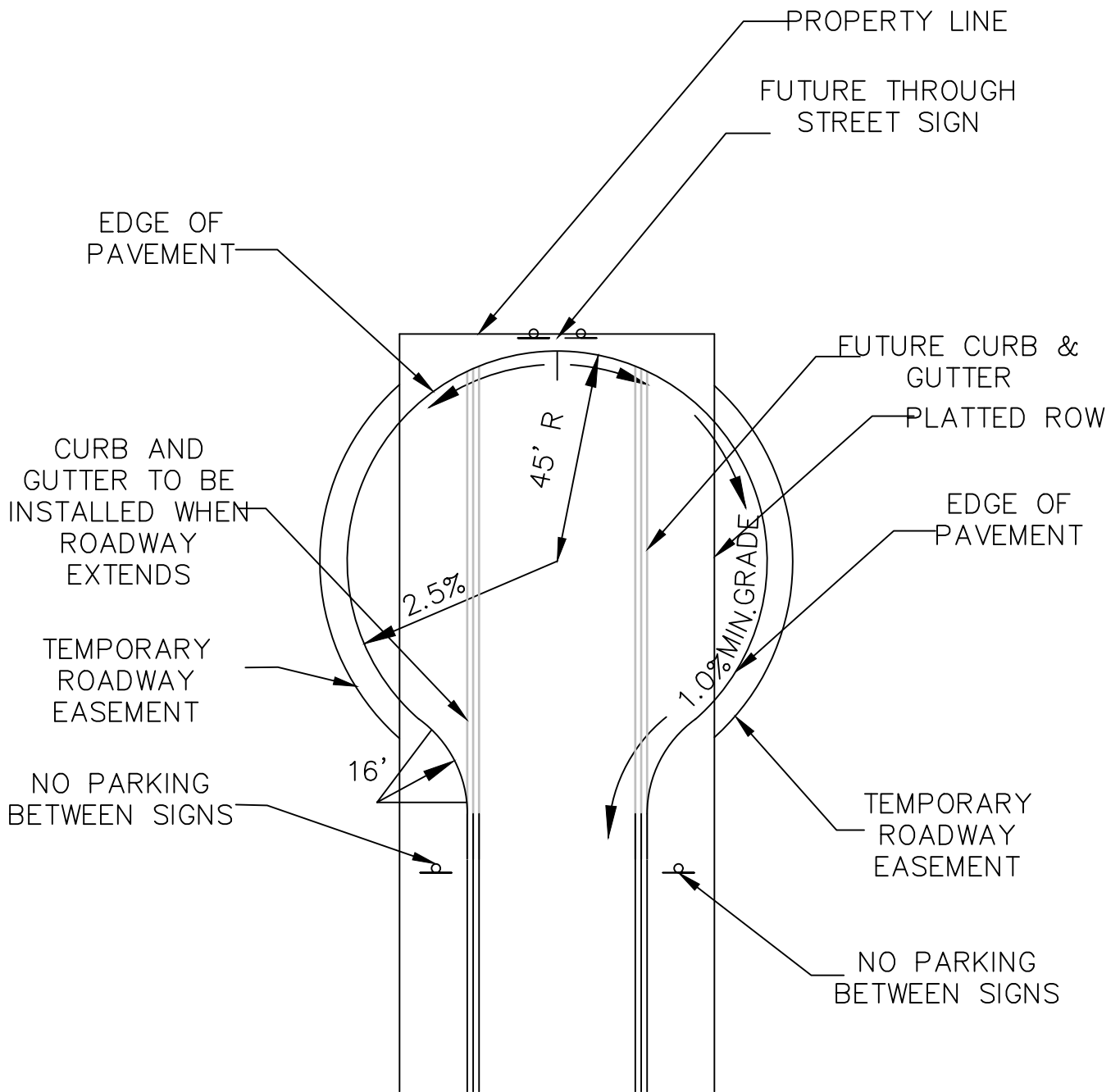
CLIENT  
**CITY OF CORCORAN**

T: \2294-Corcoran\Corcoran logo.jpg

PROJECT **STANDARD PLATES**

SHEET TITLE **CENTER ISLAND CURB RAMP**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	FEB 2018	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2019	NPW	RWS	RWS	SCALE		2294-00	STR-23	



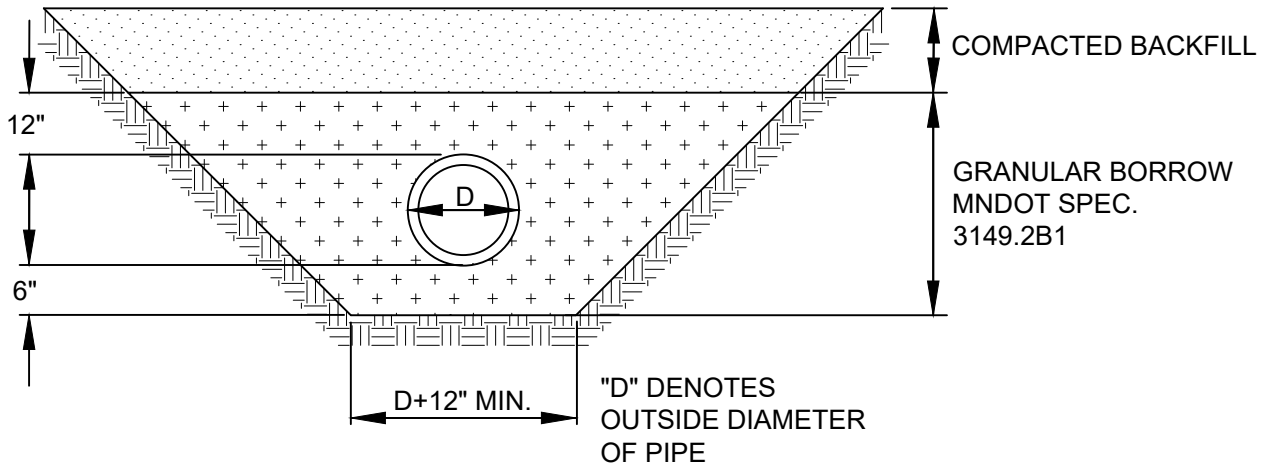
NOTE:  
 1. ALL RADIUS MEASUREMENTS TAKEN FROM FACE OF CURB.  
 2. NO BUILDING PERMIT WILL BE ALLOWED UNTIL TEMPORARY TURNAROUND IS INSTALLED



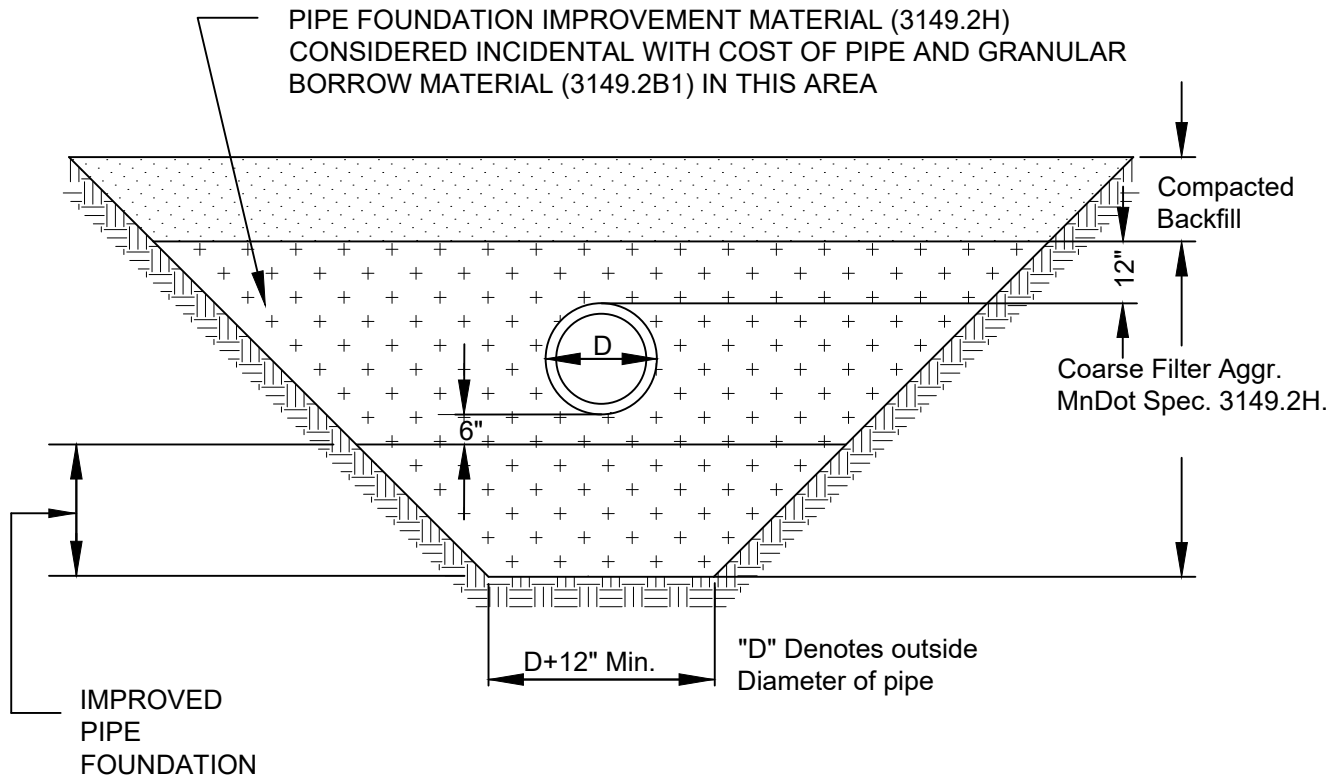
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**CITY OF CORCORAN**  
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PROJECT  
 STANDARD PLATES  
 SHEET TITLE  
**TEMPORARY CUL-DE-SAC**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	DEC 2020	PROJECT NO.	SHEET NO.	REV NO.
				KLS	RWS	RWS	SCALE		2294-00	STR-24	



PIPE FOUNDATION & BEDDING IN GOOD SOILS



PIPE FOUNDATION & BEDDING IN POOR SOILS

NOTE:

1. ALL SDR-35 PVC SHALL BE USED TO A DEPTH NOT TO EXCEED 16'. SDR-26 PVC SHALL BE USED FOR DEPTHS GREATER THAN 16'. C-900 PVC SHALL BE USED FOR DEPTHS GREATER THAN 25'.



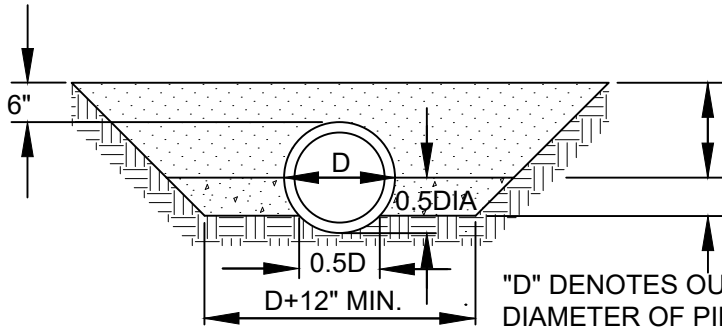
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PROJECT  
 STANDARD PLATES  
 SHEET TITLE  
**BEDDING METHODS FOR PVC**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			JAN 2016	SKH	RWS	RWS	SCALE	2294-00	BED-1	



COMPACTED BACKFILL

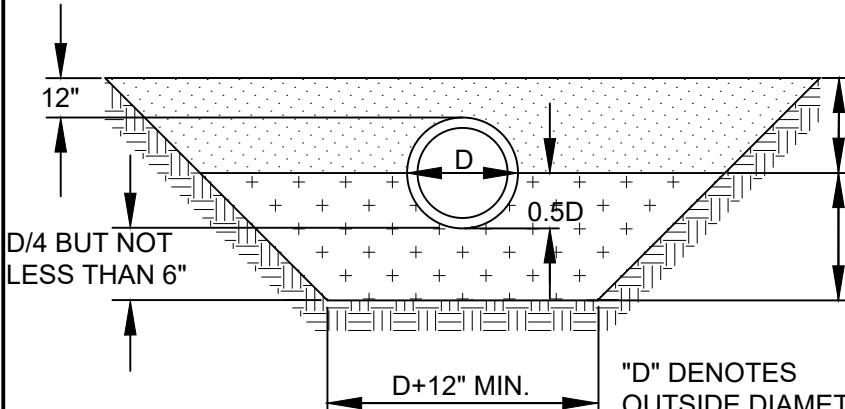
2000# CONCRETE

LOAD FACTOR 2.3

CLASS A

CONCRETE BACKFILL TO 0.5 OF OUTSIDE DIAMETER WITH SHAPED BEDDING.

"D" DENOTES OUTSIDE DIAMETER OF PIPE



COMPACTED BACKFILL

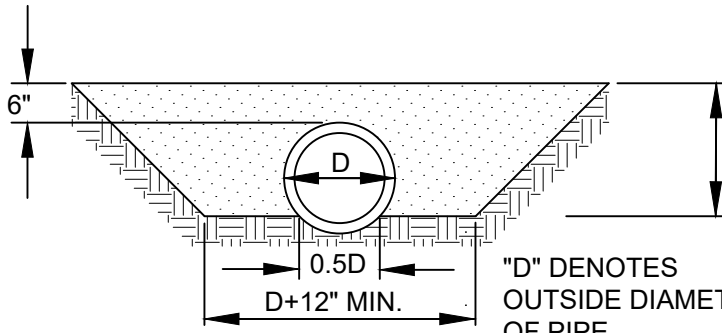
COARSE FILTER AGGREGATE  
MNDOT SPEC. 3149.2H

LOAD FACTOR 1.9

CLASS B

HAND SHAPED FROM ANGULAR BEDDING MATERIAL

"D" DENOTES OUTSIDE DIAMETER OF PIPE



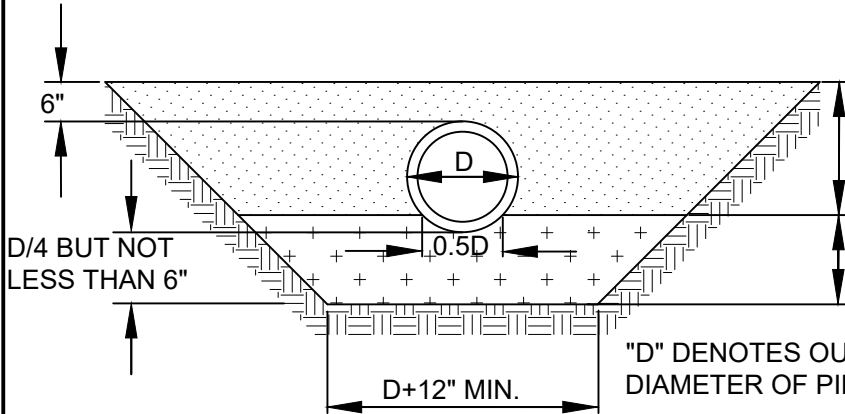
COMPACTED BACKFILL

LOAD FACTOR 1.5

CLASS C-1

HAND SHAPED FROM FIRM UNDISTURBED SOIL

"D" DENOTES OUTSIDE DIAMETER OF PIPE



COMPACTED BACKFILL

COARSE FILTER AGGREGATE  
MNDOT SPEC. 3149.2H

LOAD FACTOR 1.5

CLASS C-2

HAND SHAPED FROM ANGULAR BEDDING MATERIAL

"D" DENOTES OUTSIDE DIAMETER OF PIPE



Responsive partner. Exceptional outcomes.

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PROJECT

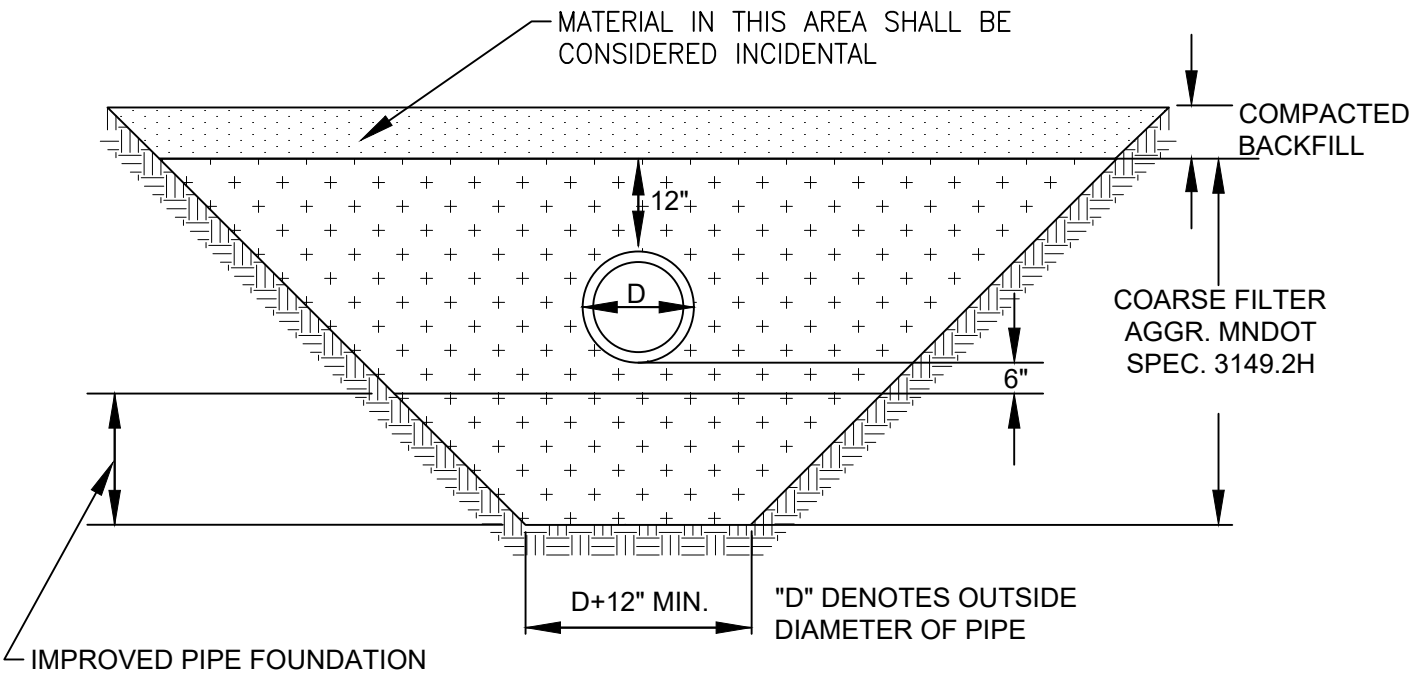
STANDARD PLATES

SHEET TITLE

BEDDING METHODS FOR RCP, CMP & DIP

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE
			FEB 2017	NPW	RWS	RWS	SCALE

PROJECT NO.	SHEET NO.	REV NO.
2294-00	BED-2	



Responsive partner. Exceptional outcomes.

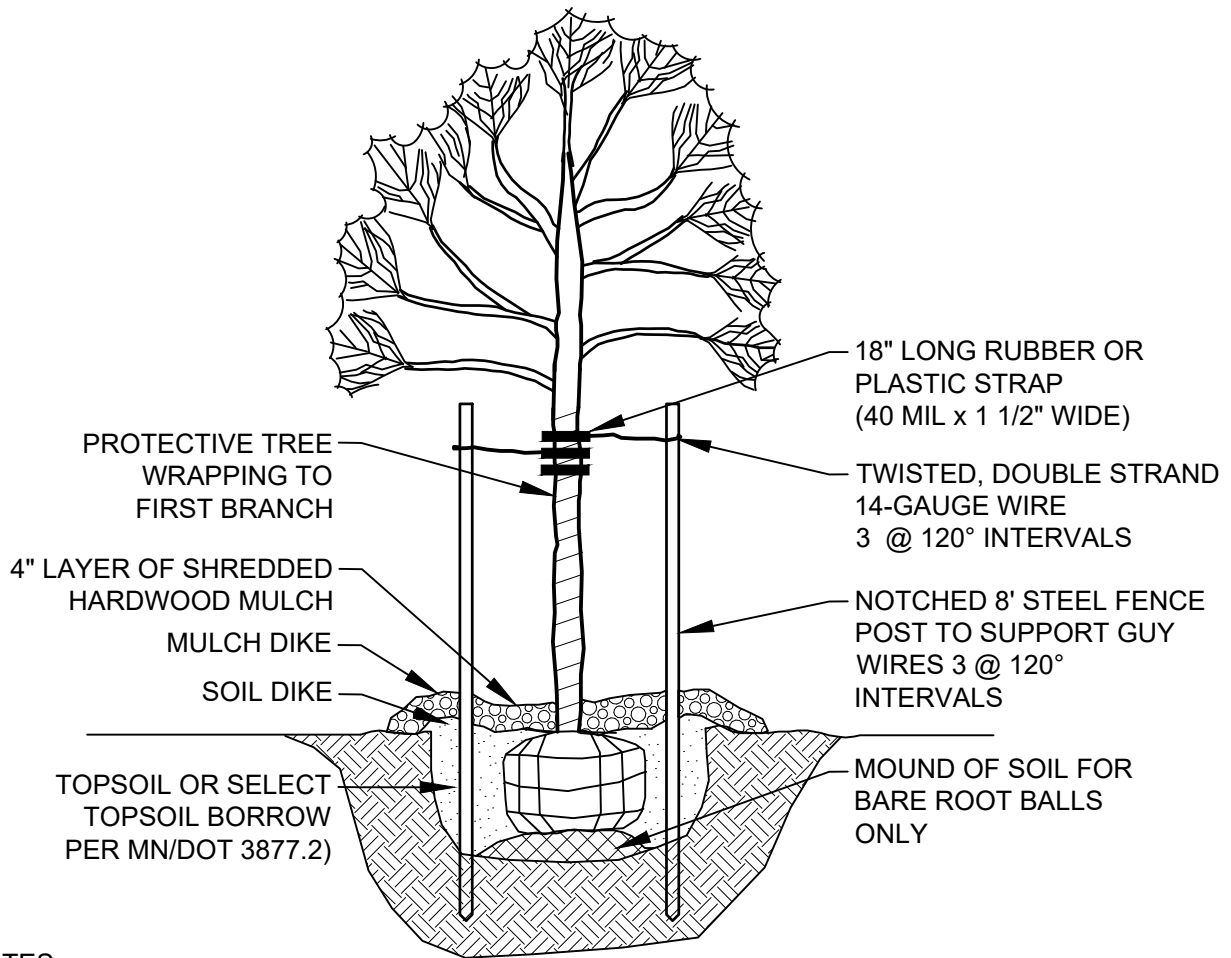
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PROJECT STANDARD PLATES


SHEET TITLE  
**IMPROVED FOUNDATION FOR RCP, CMP & DIP**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
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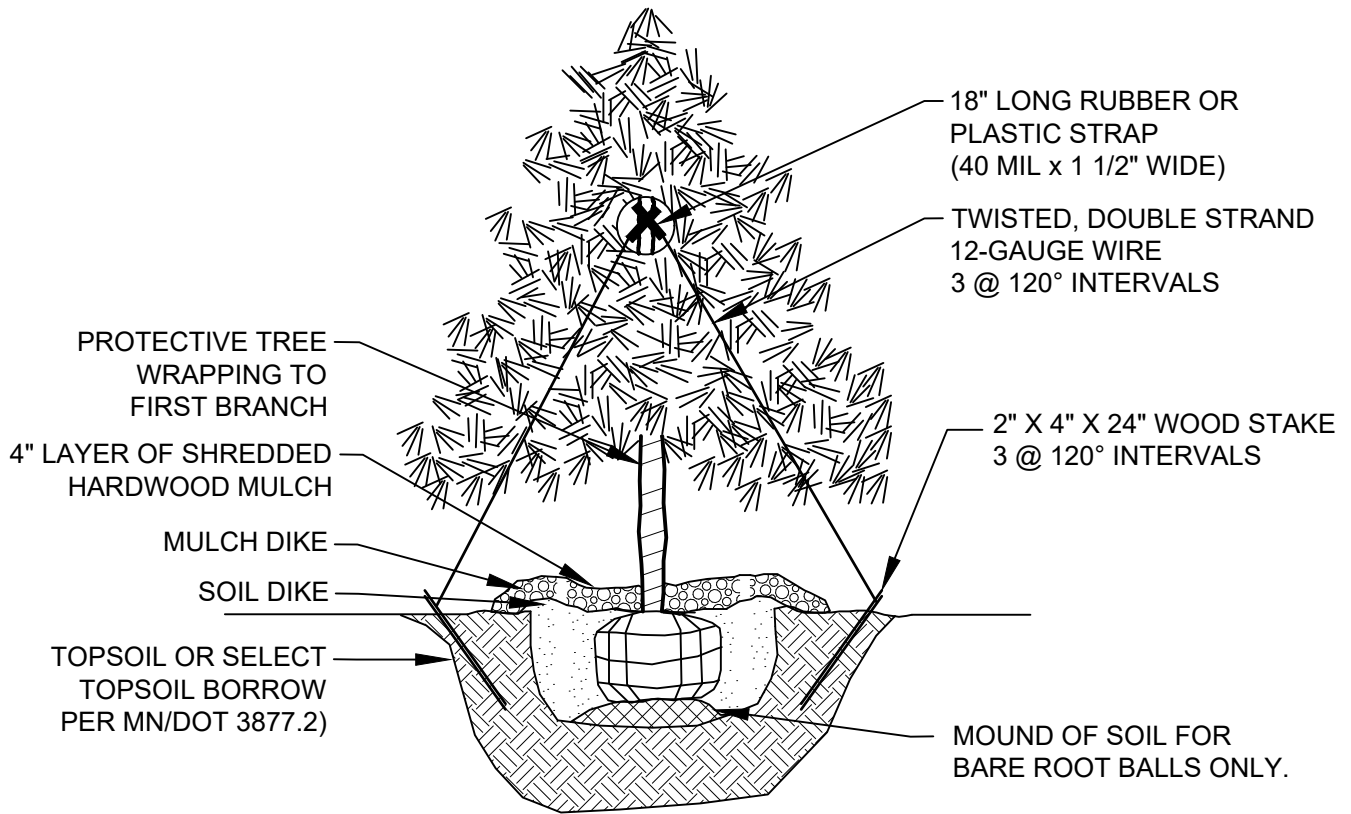


**NOTES:**

1. PLANTS TO BE INSTALLED AS PER THE AMERICAN ASSOCIATION OF NURSERYMAN (AAN) STANDARD PLANTING PRACTICES.
2. PROVIDE & INSTALL PLANT MATERIALS THAT ARE THE SIZE, TYPE, AND SPECIES INDICATED IN PLANS.
3. BEFORE PLANTING, REMOVE DEAD OR DAMAGED BRANCHES.
4. DIG HOLE 12" LARGER THAN ROOT BALL ON ALL SIDES.
5. SCARIFY BOTTOM OF HOLE.
6. LOOSEN BURLAP COVERING ON ROOT BALL. REMOVE TOP OF BURLAP ON BALLED & BURLAPPED MATERIALS.
7. IF BARE ROOTED, SET BARE ROOT CROWN ON MOUND & SPREAD ROOTS OVER & DOWN SIDES OF MOUND.
8. PLANT TREE SO TOP OF ROOT BALL IS FLUSH WITH TOP OF SOIL.
9. FILL HOLE  $\frac{2}{3}$  FULL OF SOIL & TAMP.
10. FILL REMAINING SPACE WITH WATER AND WAIT FOR IT TO SETTLE.
11. FINISH FILLING HOLE WITH SOIL AND MAKE A SOIL DIKE AROUND ROOT BALL.
12. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO DIGGING AND PLANT INSTALLATION.


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		SHEET TITLE <b>DECIDUOUS TREE PLANTING</b>								
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
				NPW	RWS	RWS	JAN 2018	2294-00	LAN-1	
							SCALE			

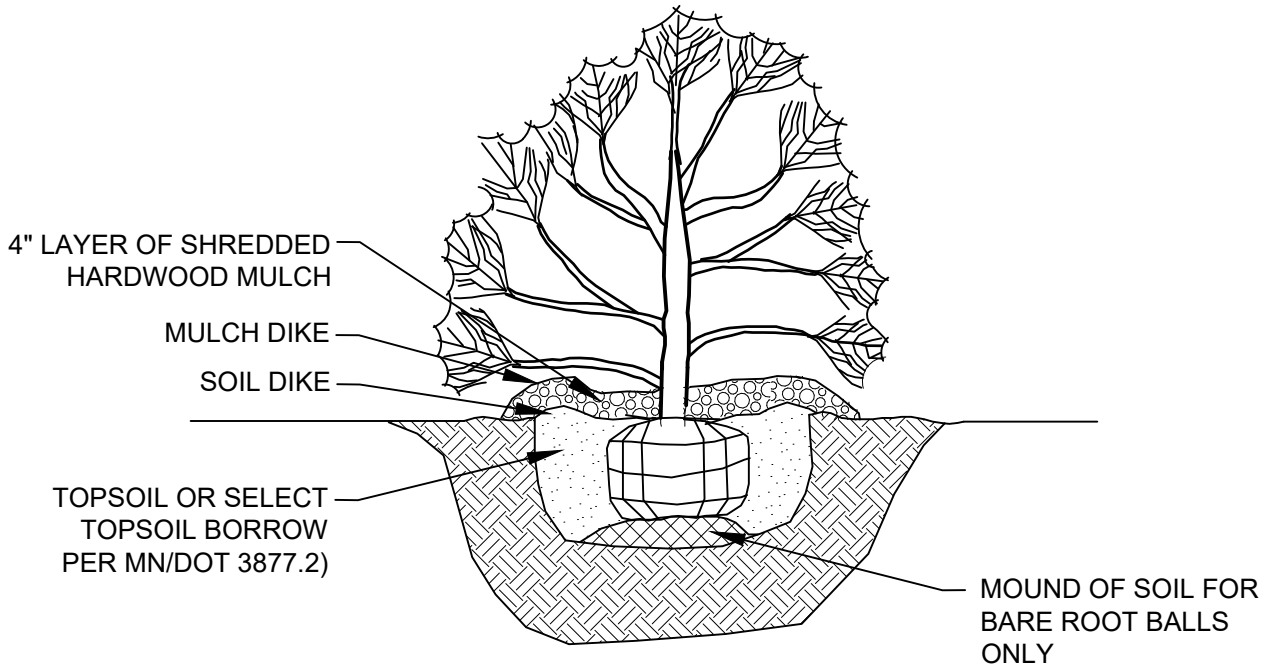




NOTES:


1. PLANTS TO BE INSTALLED AS PER THE AMERICAN ASSOCIATION OF NURSEYMAN (AAN) STANDARD PLANTING PRACTICES.
2. PROVIDE & INSTALL PLANT MATERIALS THAT ARE THE SIZE, TYPE, AND SPECIES INDICATED IN PLANS.
3. BEFORE PLANTING, REMOVE DEAD OR DAMAGED BRANCHES.
4. DIG HOLE TWO TIMES ROOT BALL WIDTH AND 6" DEEPER THAN BALL HEIGHT.
5. SCARIFY BOTTOM OF HOLE.
6. LOOSEN BURLAP COVERING ON ROOT BALL. REMOVE TOP OF BURLAP ON BALLED & BURLAPPED MATERIALS.
7. IF BARE ROOTED, SET BARE ROOT CROWN ON MOUND & SPREAD ROOTS OVER & DOWN SIDES OF MOUND.
8. PLANT TREE SO TOP OF ROOT BALL IS FLUSH WITH TOP OF SOIL.
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10. FILL REMAINING SPACE WITH WATER AND WAIT FOR IT TO SETTLE.
11. FINISH FILLING HOLE WITH SOIL AND MAKE A SOIL DIKE AROUND ROOT BALL.
12. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO DIGGING AND PLANT INSTALLATION.

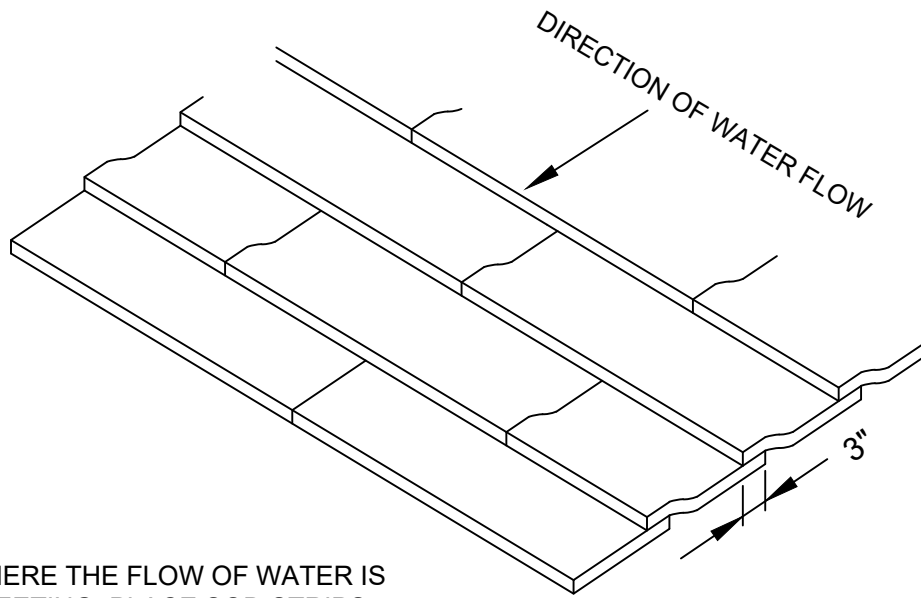
 <p>Responsive partner. Exceptional outcomes.</p> <p>1800 PIONEER CREEK CENTER 763-479-4200          MAPLE PLAIN, MN 55359 763-479-4242          Web Site: www.wenck.com</p>		CLIENT			PROJECT STANDARD PLATES					
		T: \2294-Corcoran\Corcoran logo.jpg			SHEET TITLE CONIFEROUS TREE PLANTING					
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
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							SCALE			



**NOTES:**

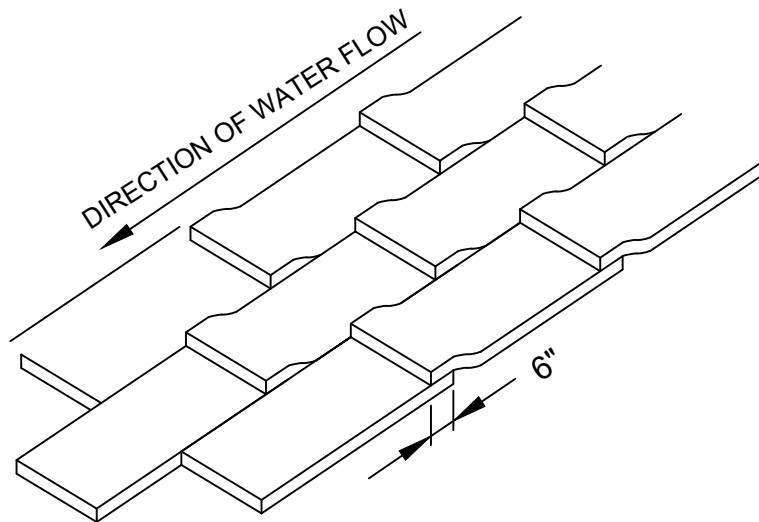
1. PLANTS TO BE INSTALLED AS PER THE AMERICAN ASSOCIATION OF NURSEYMAN (AAN) STANDARD PLANTING PRACTICES.
2. PROVIDE & INSTALL PLANT MATERIALS THAT ARE THE SIZE, TYPE, AND SPECIES INDICATED IN PLANS.
3. BEFORE PLANTING, REMOVE DEAD OR DAMAGED BRANCHES.
4. DIG HOLE TWO TIMES ROOT BALL WIDTH AND 6" DEEPER THAN BALL HEIGHT.
5. SCARIFY BOTTOM OF HOLE.
6. LOOSEN BURLAP COVERING ON ROOT BALL. REMOVE TOP OF BURLAP ON BALLED & BURLAPPED MATERIALS.
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8. PLANT TREE SO TOP OF ROOT BALL IS FLUSH WITH TOP OF SOIL.
9. FILL HOLE  $\frac{2}{3}$  FULL OF SOIL & TAMP.
10. FILL REMAINING SPACE WITH WATER AND WAIT FOR IT TO SETTLE.
11. FINISH FILLING HOLE WITH SOIL AND MAKE A SOIL DIKE AROUND ROOT BALL.
12. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO DIGGING AND PLANT INSTALLATION.

 <p>Responsive partner. Exceptional outcomes.  <small>1800 PIONEER CREEK CENTER 763-479-4200          MAPLE PLAIN, MN 55359 763-479-4242          Web Site: www.wenck.com</small></p>				CLIENT T: \2294-Corcoran\Corcoran logo.jpg				PROJECT STANDARD PLATES			
				SHEET TITLE DECIDUOUS SHRUB PLANTING							
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
				NPW	RWS	RWS	JAN 2018	2294-00	LAN-3		
							SCALE				



WHERE THE FLOW OF WATER IS SHEETING, PLACE SOD STRIPS PERPENDICULAR TO THE DIRECTION OF WATER FLOW

SHINGLING SOD



OVERLAPPING SOD

WHERE THE FLOW OF WATER IS CONCENTRATED, PLACE SOD STRIPS PARALLEL TO THE DIRECTION OF WATER FLOW

NOTES:

1. BEFORE LAYING SOD, RAKE SOIL TO BREAK CLOUDS & REMOVE DEBRIS.
2. INSURE CONTACT BETWEEN SOD AND NATIVE SOIL.



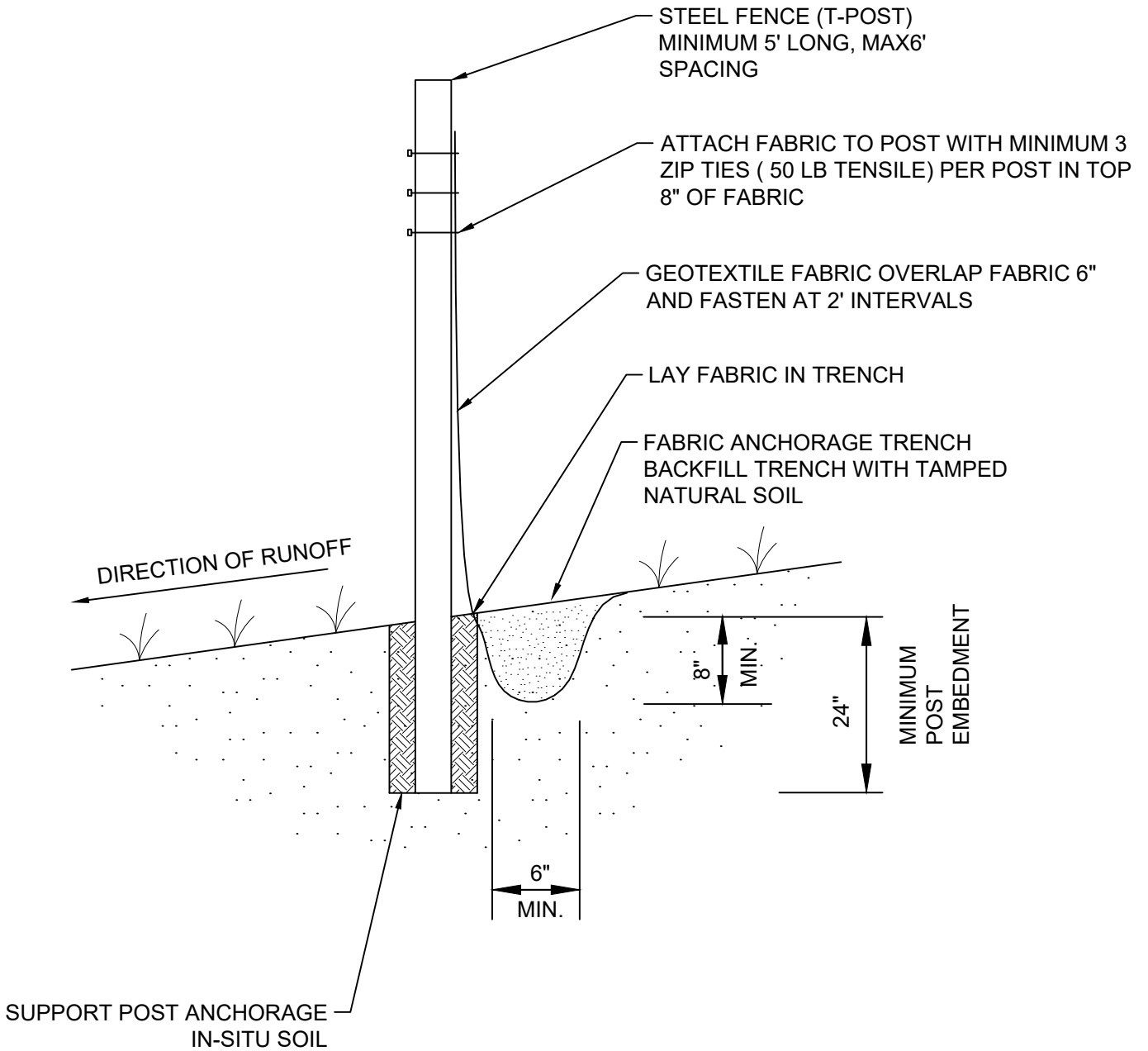
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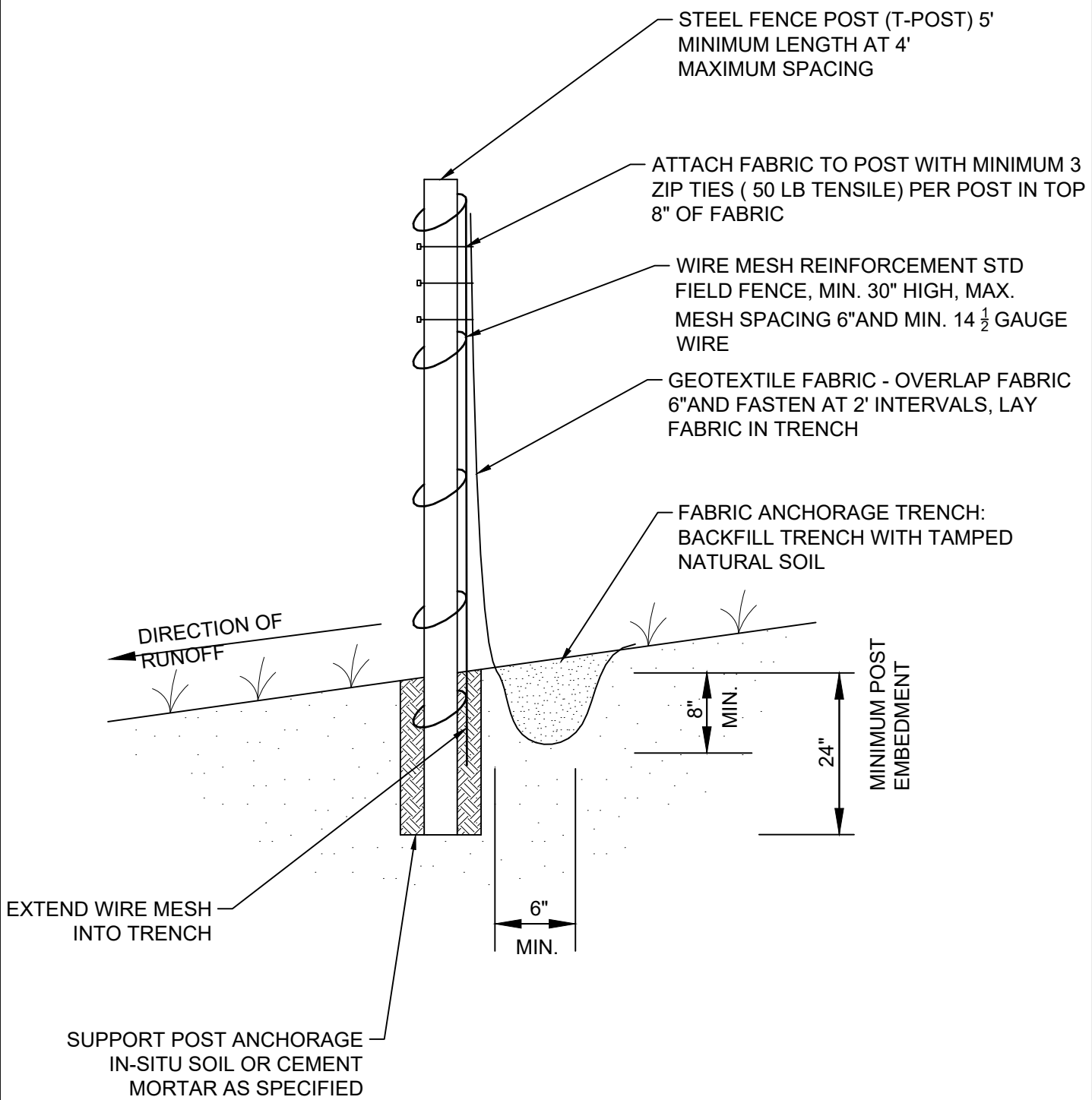
PROJECT STANDARD PLATES

SHEET TITLE SOD PLACEMENT

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	JAN 2018	PROJECT NO.	SHEET NO.	REV NO.
				NPW	RWS	RWS	SCALE		2294-00	LAN-4	



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				SHEET TITLE <b>SILT FENCE MACHINE SLICED</b>							
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-1A		



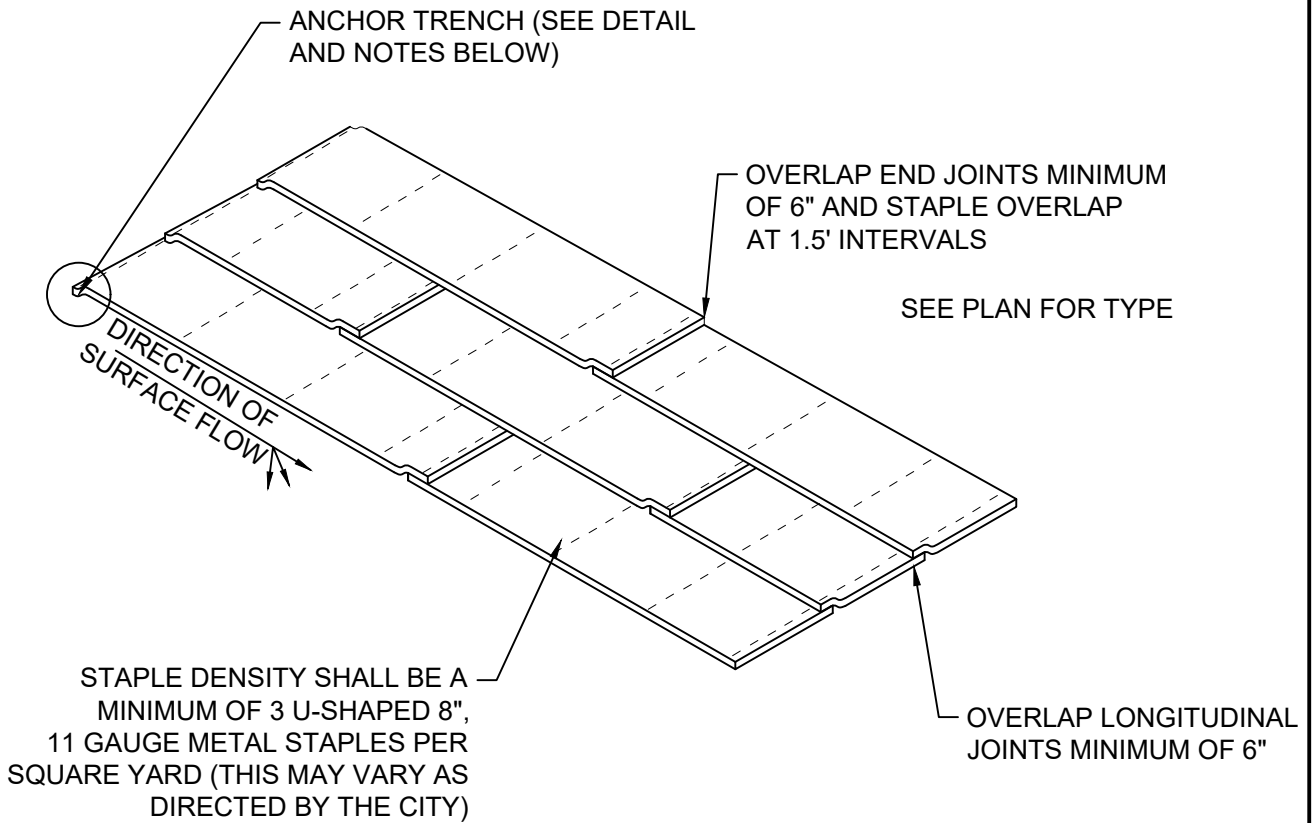
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PROJECT  
 STANDARD PLATES

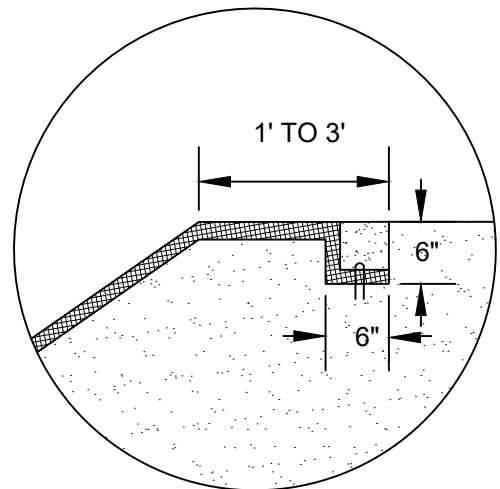
SHEET TITLE  
**SILT FENCE HEAVY DUTY**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-1B	



**ANCHOR TRENCH**

1. DIG 6" X 6" TRENCH
2. LAY BLANKET IN TRENCH
3. STAPLE AT 1.5' INTERVALS
4. BACKFILL WITH NATURAL SOIL AND COMPACT



Responsive partner. Exceptional outcomes.

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PROJECT  
 STANDARD PLATES

SHEET TITLE  
**EROSION CONTROL  
 BLANKET INSTALLATION**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-2	

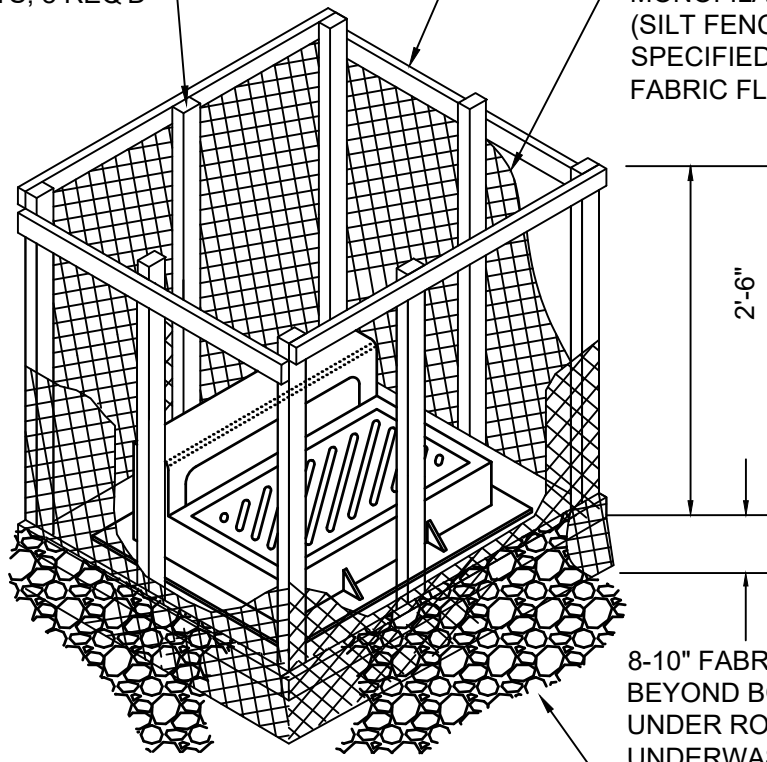


WOODEN LATH SHALL BE NAILED SECURELY TO THE POST MEMBER TO SECURE FILTER FABRIC.

2" x 4" x 2.5" LONG WOOD POSTS, 8 REQ'D

2" X 4" HORIZONTAL MEMBERS CONTINUOUS AROUND TOP AND BOTTOM FASTENED TO EACH POST USING 2 - 20D COMMON NAILS

MONOFILAMENT GEOTEXTILE (SILT FENCE) FABRIC AS SPECIFIED ADDITIONAL 8 - 10" OF FABRIC FLAP AT BOTTOM OF BOX



8-10" FABRIC FLAP EXTENDING BEYOND BOTTOM 2"X4" - BURY UNDER ROCK TO PREVENT UNDERWASHING

1 1/2" WASHED ROCK 1'DEEP X 1' WIDE

**NOTES:**

CONTRACTOR SHALL CONSTRUCT SILT BOX TO FIT AROUND THE INLET STRUCTURE WITH 6" MINIMUM CLEARANCE TO EDGES OF STRUCTURE. SILT BOX TO BE PLACED ON AN EVEN SURFACE 6" BELOW STRUCTURE OPENING. TOP OF SILT BOX TO EXTEND 18" MINIMUM ABOVE EXISTING GRADE.



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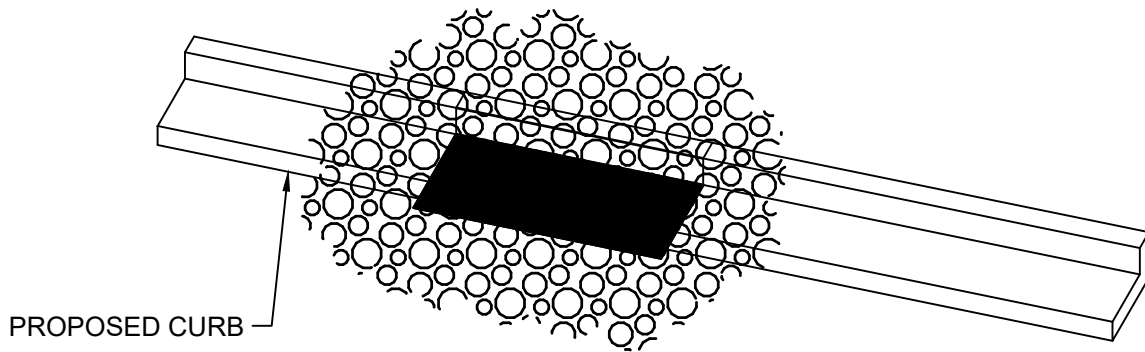
PROJECT STANDARD PLATES

SHEET TITLE INLET PROTECTION SILT BOX FOR CATCH BASIN

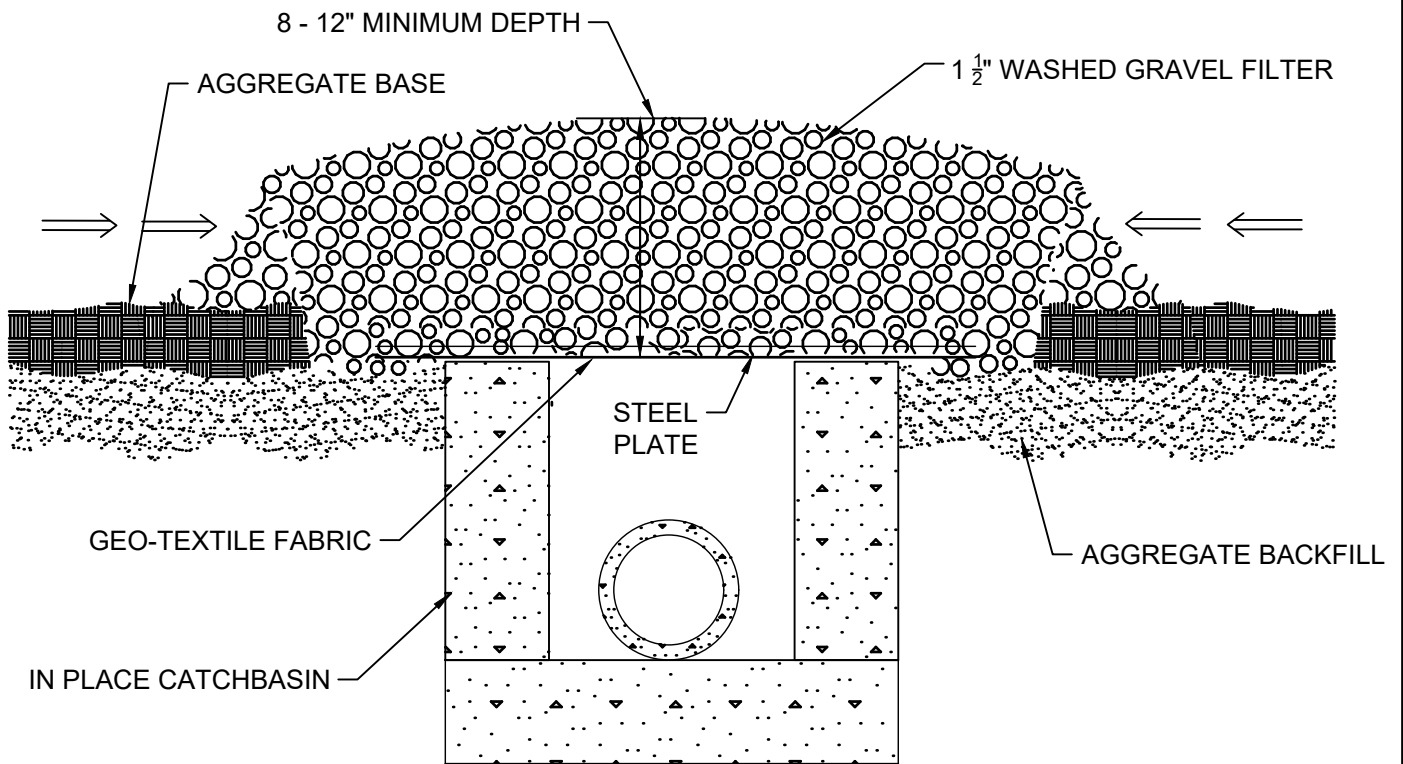
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			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-4A	



PLAN



← = DIRECTION OF SURFACE FLOW



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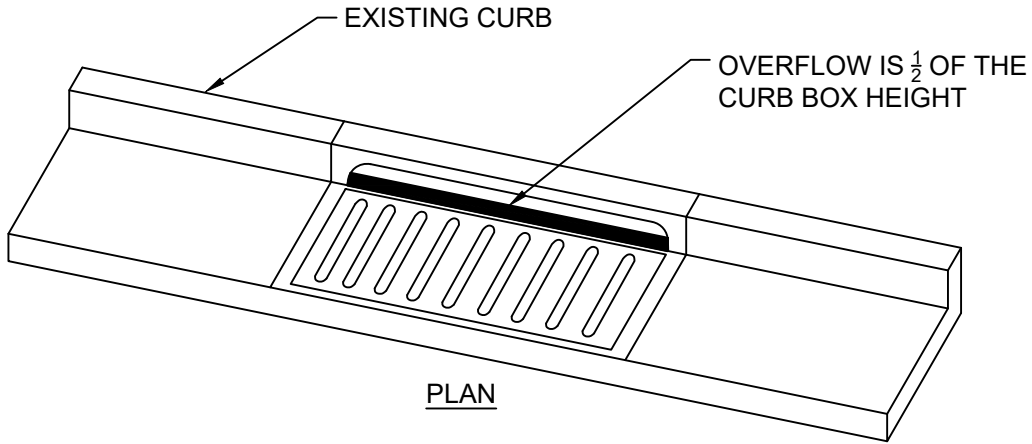
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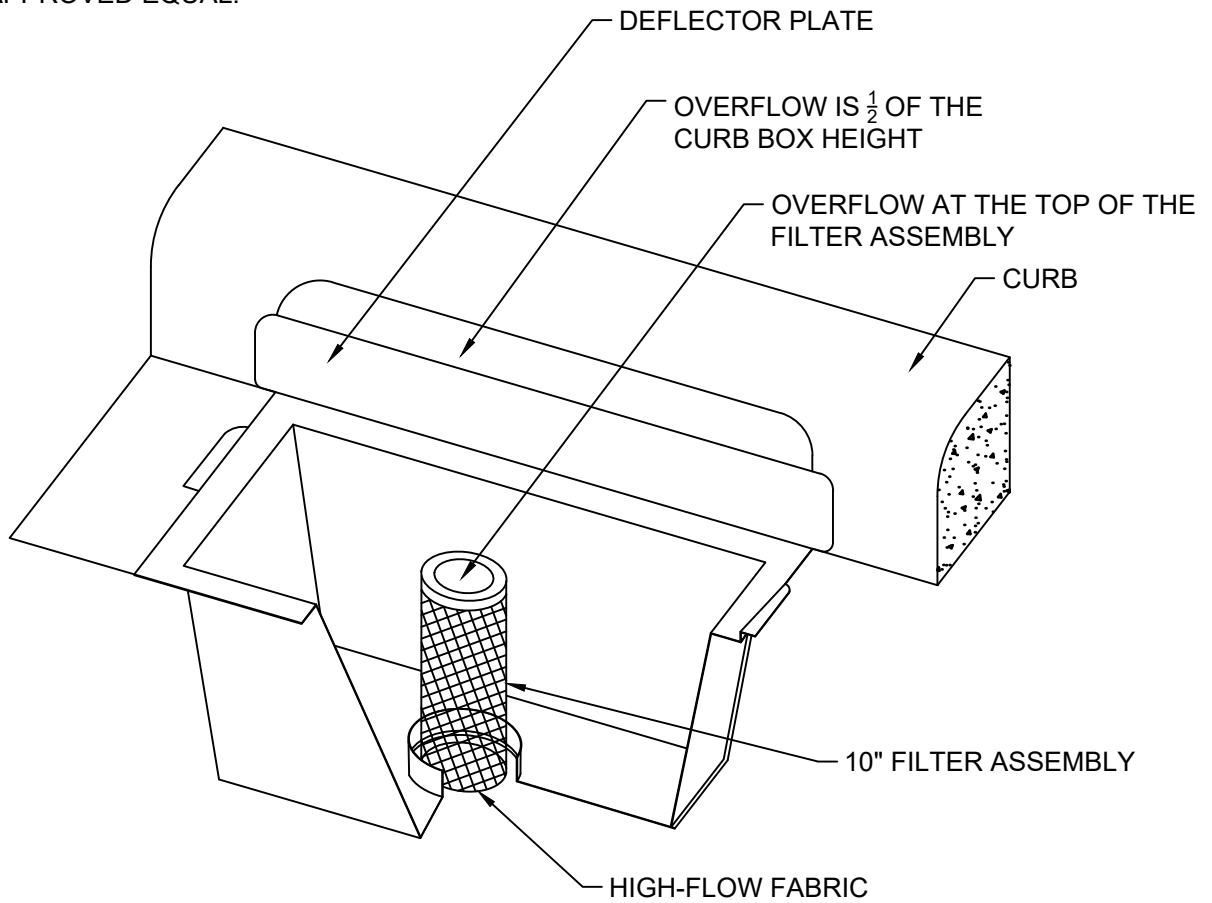
PROJECT  
 STANDARD PLATES


SHEET TITLE  
 INLET PROTECTION  
 CATCH BASIN ROCK FILTER

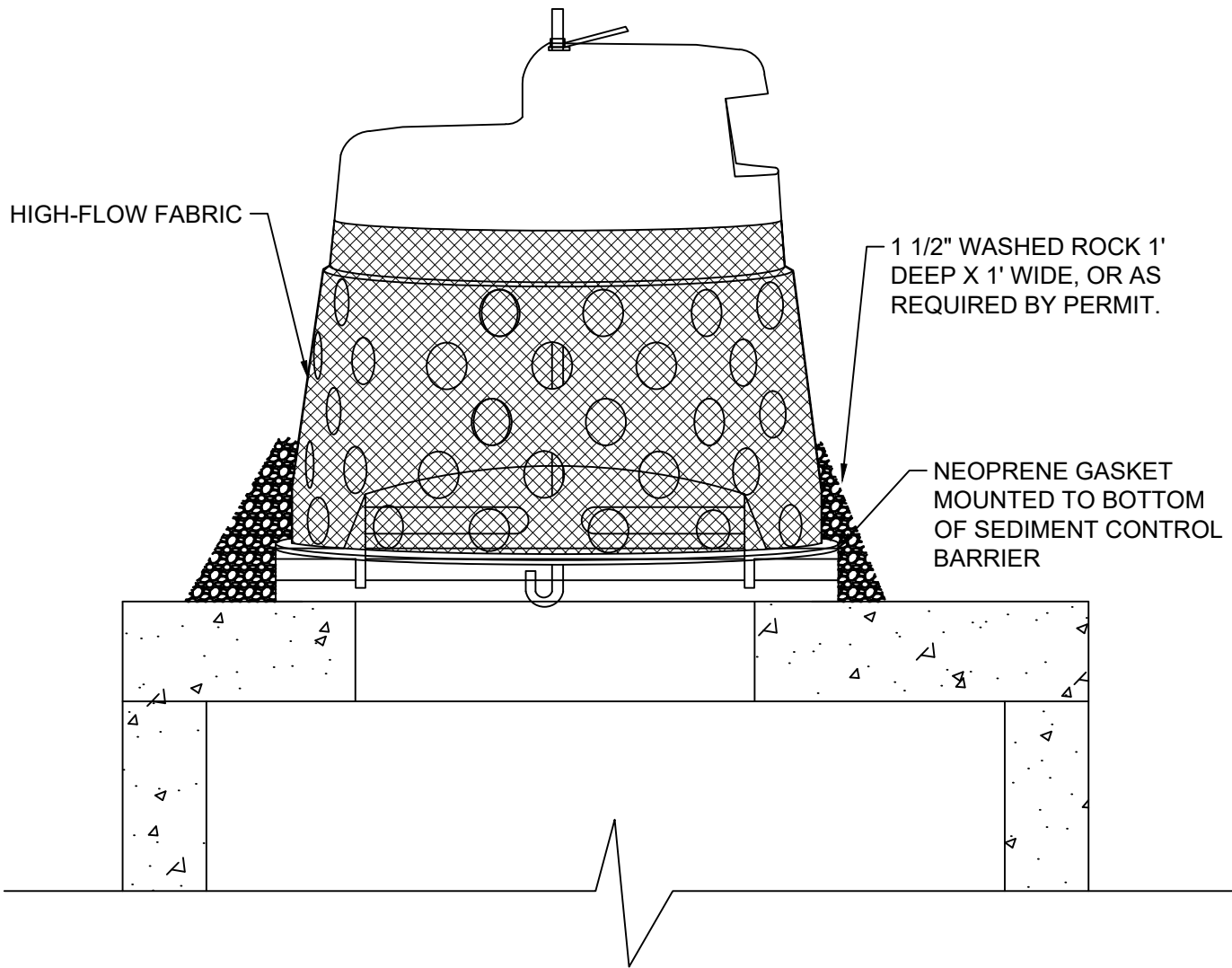
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			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-4B	



WIMCO ROAD DRAIN CG-3067 HIGH FLOW  
INLET PROTECTION CURB AND GUTTER MODEL OR  
CITY APPROVED EQUAL.



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				SHEET TITLE <b>INLET PROTECTION                  CATCH BASIN INSERT</b>							
REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.	
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-4C		



**NOTES:**  
 INFRSAFE SEDIMENT CONTROL BARRIER OR CITY  
 APPROVED EQUAL

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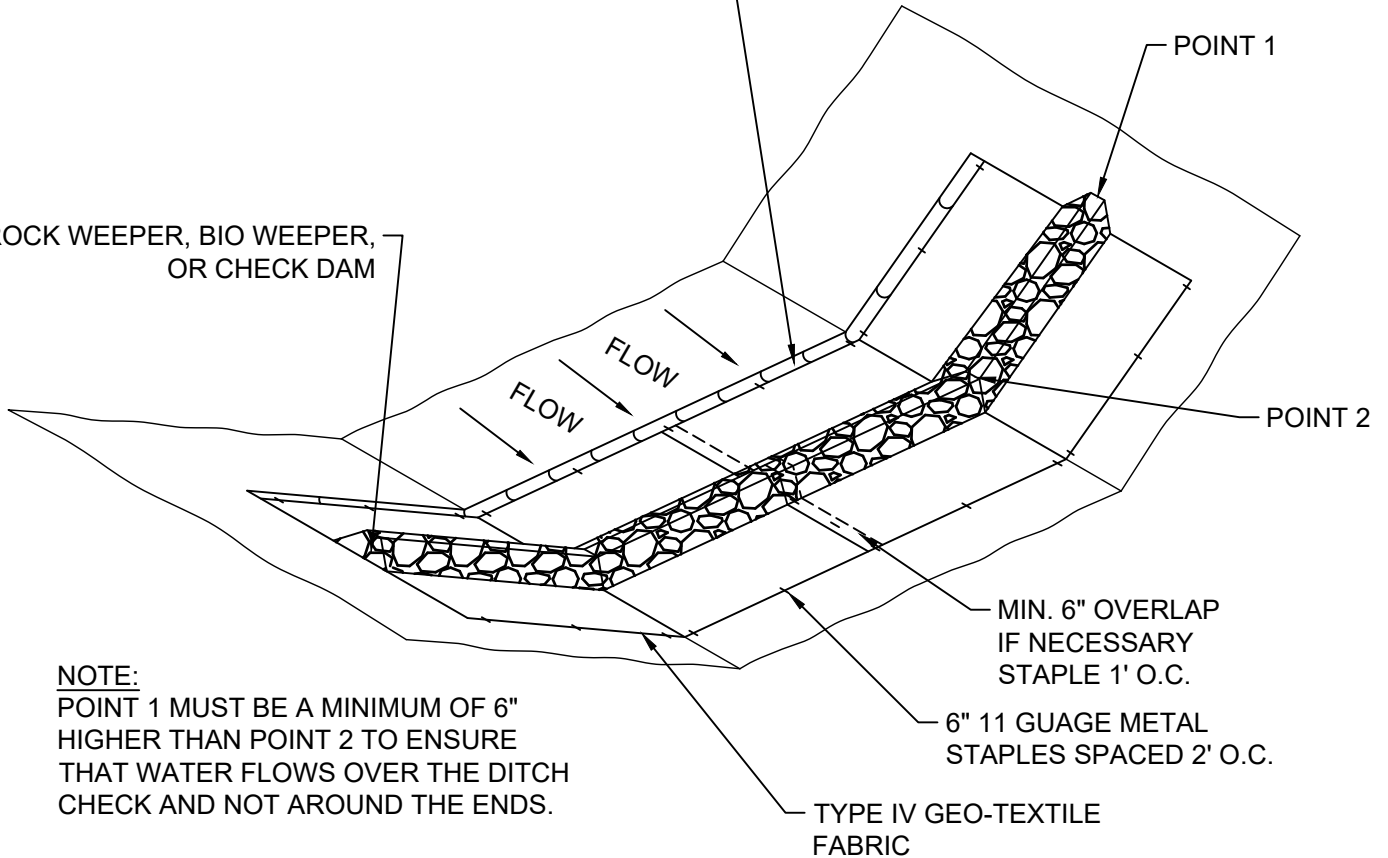
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PROJECT: STANDARD PLATES  
 SHEET TITLE: INLET PROTECTION BEEHIVE CASTING SILT BOX

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-4D	

6" X 6" TRENCH WITH LEADING EDGE OF TYPE IV GEO-TEXTILE FABRIC STAPLED AT 4' INTERVALS AND BACKFILLED WITH NATURAL SOIL

ROCK WEEPER, BIO WEEPER, OR CHECK DAM



**NOTE:**  
POINT 1 MUST BE A MINIMUM OF 6" HIGHER THAN POINT 2 TO ENSURE THAT WATER FLOWS OVER THE DITCH CHECK AND NOT AROUND THE ENDS.

MIN. 6" OVERLAP IF NECESSARY STAPLE 1' O.C.

6" 11 GAUGE METAL STAPLES SPACED 2' O.C.

TYPE IV GEO-TEXTILE FABRIC

**DITCH CHECK SPACING**  
(USE FOR 5B AND 5C)

DITCH GRADE	INTERVAL
(%)	(FT)
2	100
4	75
6	50
8	40
10	25
10+	25



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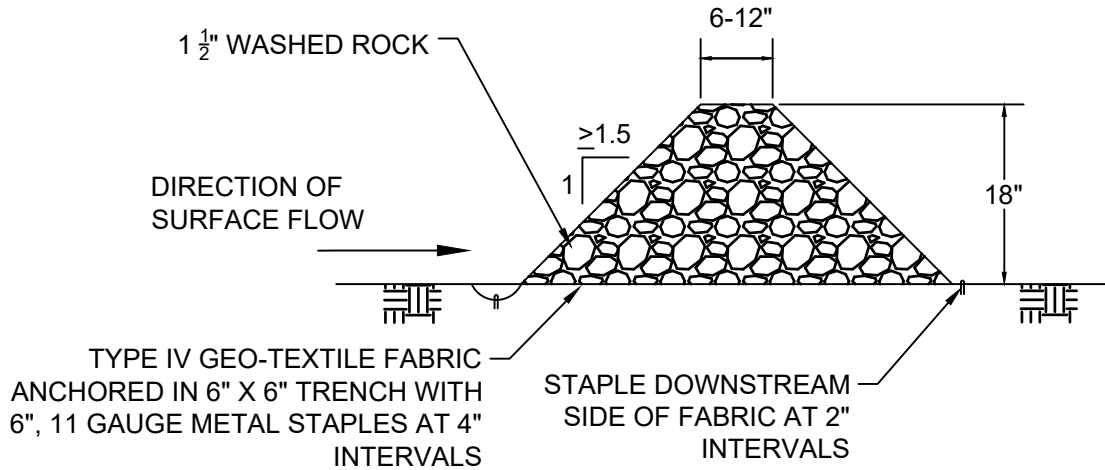
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PROJECT STANDARD PLATES

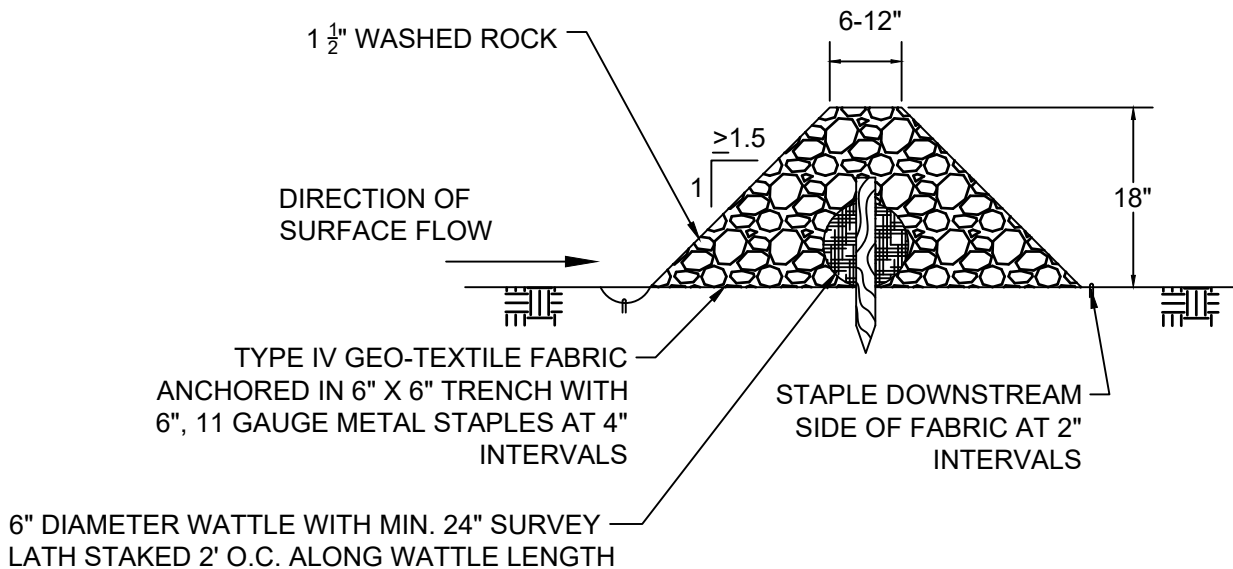
SHEET TITLE DITCH CHECK: 3D VIEW FOR 5B, 5C, AND SPACING

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-5A	

I. ROCK WEEPER



II. BIO WEEPER



Responsive partner. Exceptional outcomes.

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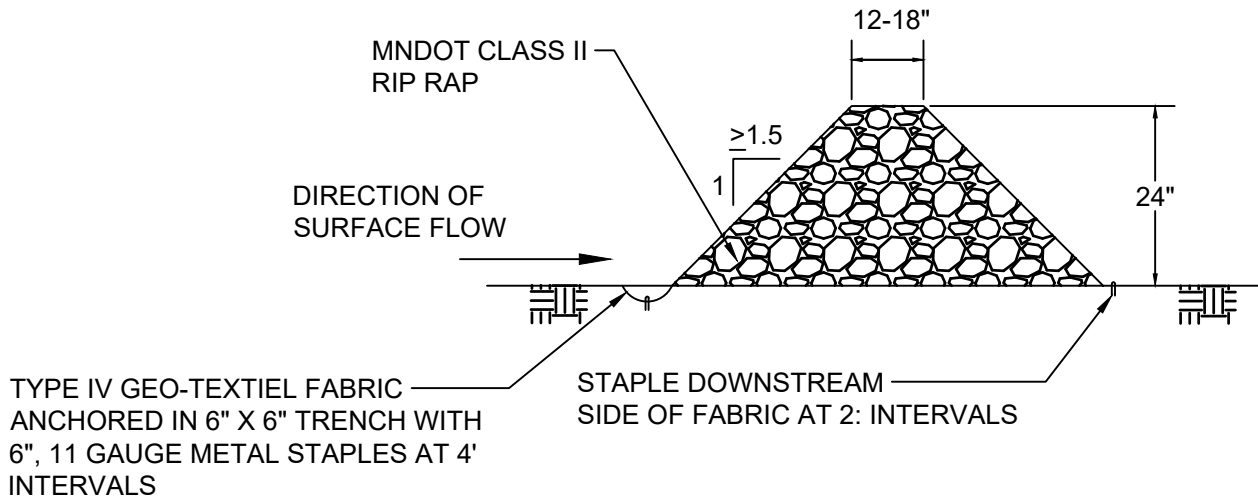
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PROJECT  
 STANDARD PLATES

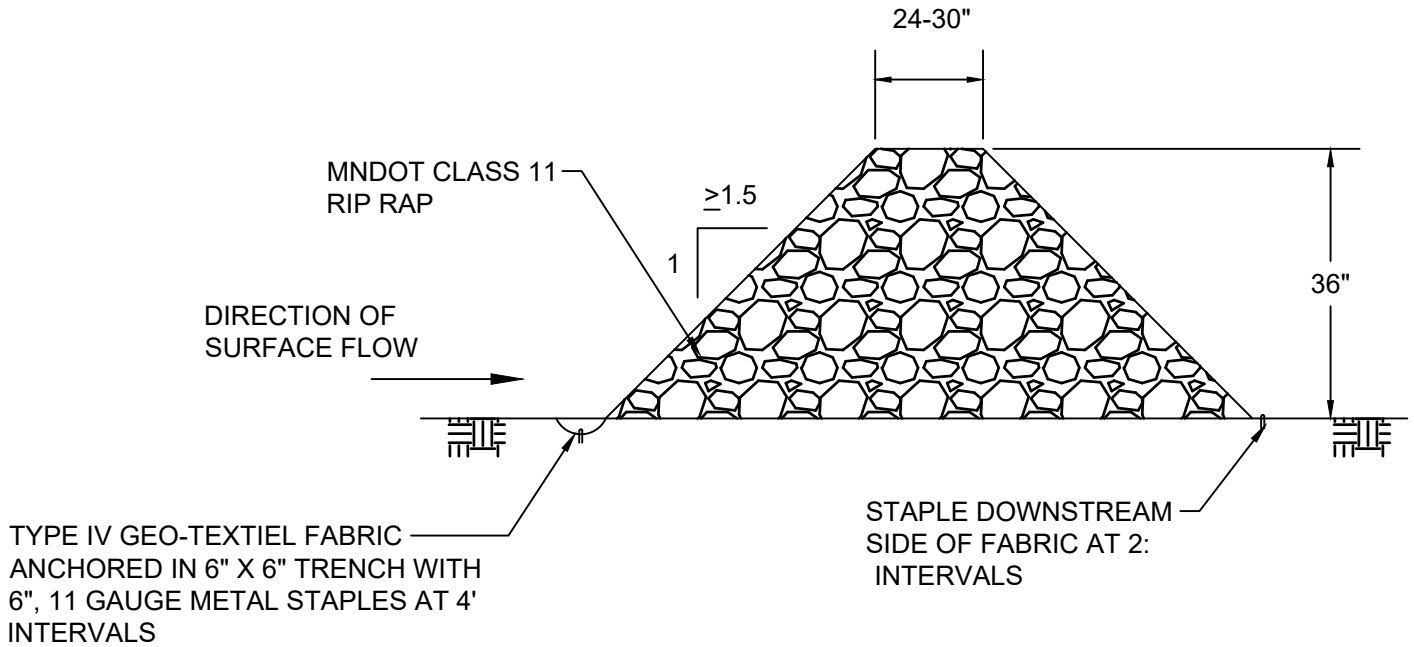
SHEET TITLE  
**DITCH CHECKS:  
 ROCK AND BIO WEEPER**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-5B	

I. SMALL CHECK DAM



II. LARGE CHECK DAM



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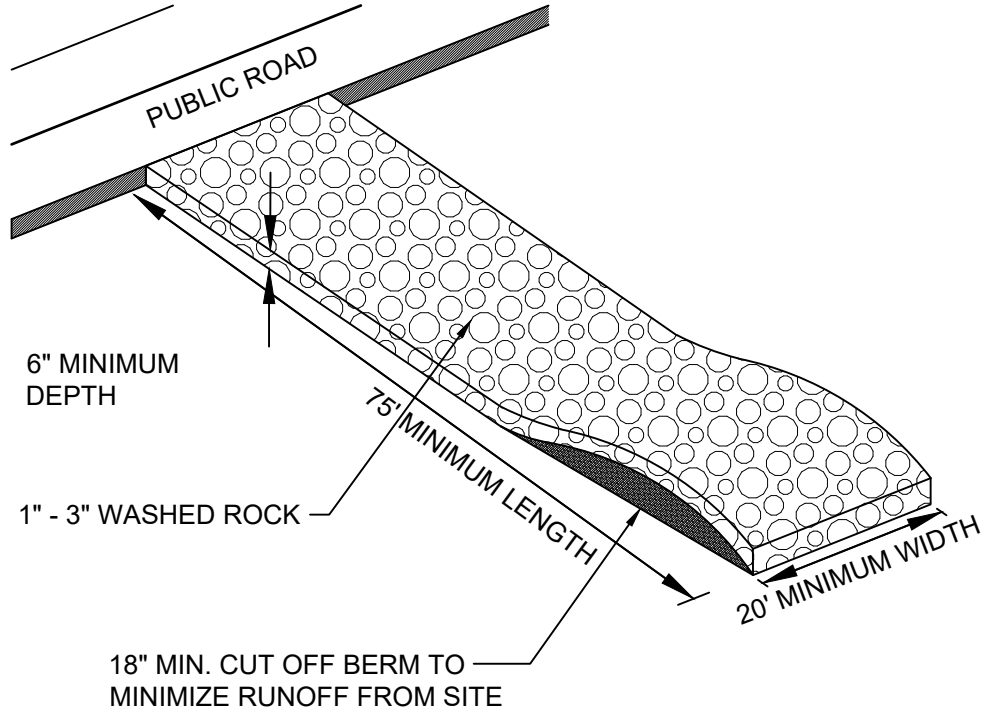
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PROJECT STANDARD PLATES

SHEET TITLE DITCH CHECK  
 SMALL/LARGE CHECK DAM

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-5C	



**NOTE:**  
 FILTER FABRIC SHALL BE PLACED UNDER ROCK TO STOP MUD MIGRATION THROUGH ROCK.  
 ENTRANCE MUST BE MAINTAINED TO PREVENT SEDIMENTATION ON PUBLIC ROADWAYS. FUGITIVE ROCKS WILL BE REMOVED FROM ADJACENT ROADWAYS DAILY OR MORE FREQUENTLY AS NECESSARY.



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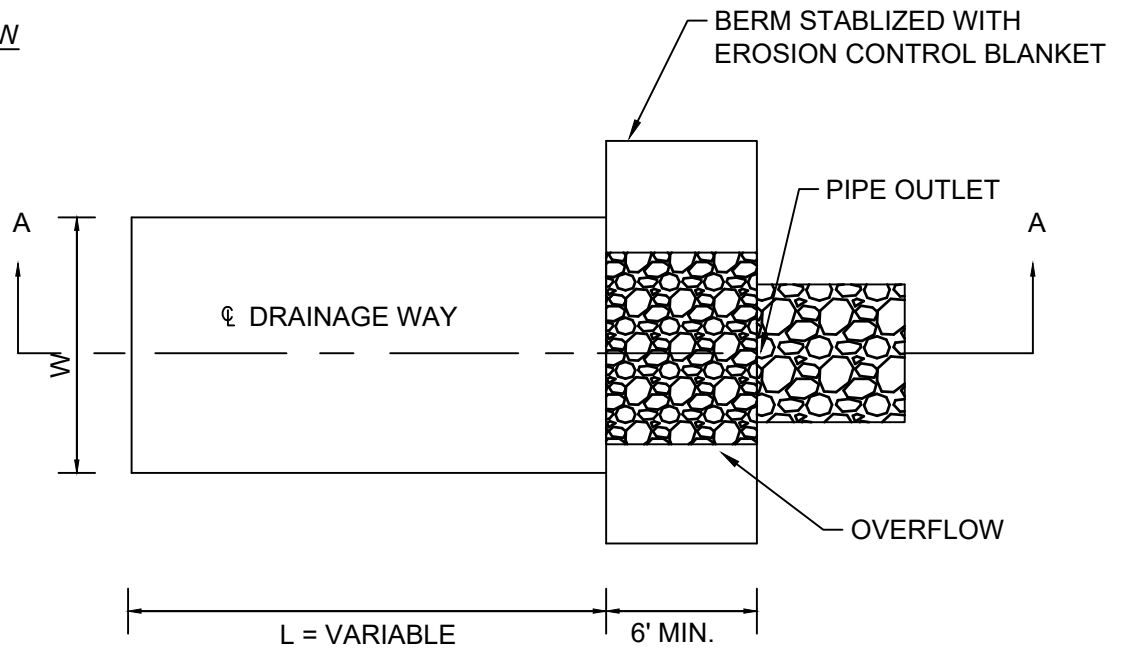
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PROJECT STANDARD PLATES

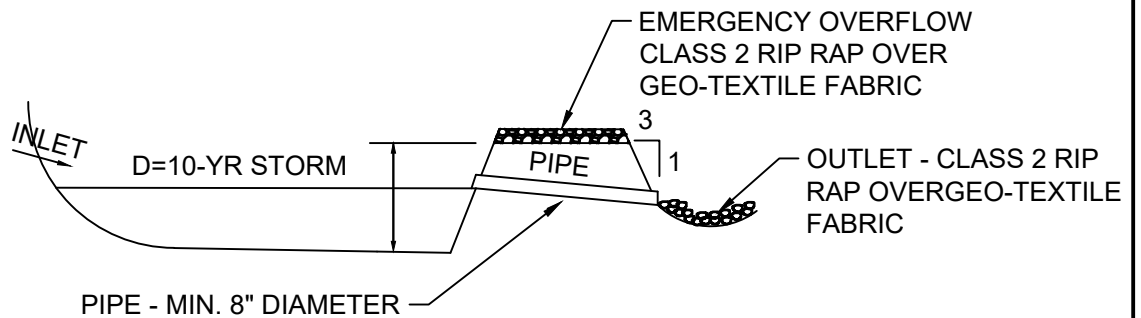
SHEET TITLE CONSTRUCTION ENTRANCE (ROCK)

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
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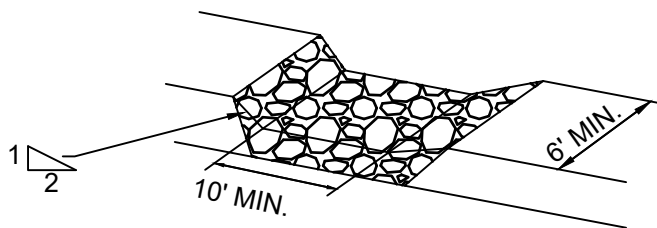
**I. PLAN VIEW**



**II. SECTION A-A**



**III. BASIN EMERGENCY OVERFLOW**



**NOTES:**

BASIN USED FOR 10 ACRES DRAINAGE AREA OR MORE. DESIGN RUNOFF VOLUME IS FROM A 2-YR, 24-HR STORM PER ACRE DRAINED TO THE BASIN. BASIN VOLUME MUST BE A MIN. OF 1800 CUBIC FEET/ACRE. SEE PLANS/SPECIFICATIONS FOR BASIN DIMENSIONS AND PIPE SIZE AND SLOPE.



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PROJECT  
 STANDARD PLATES

SHEET TITLE  
**TEMPORARY SEDIMENTATION BASIN - PIPE OUTLET**

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-7A	

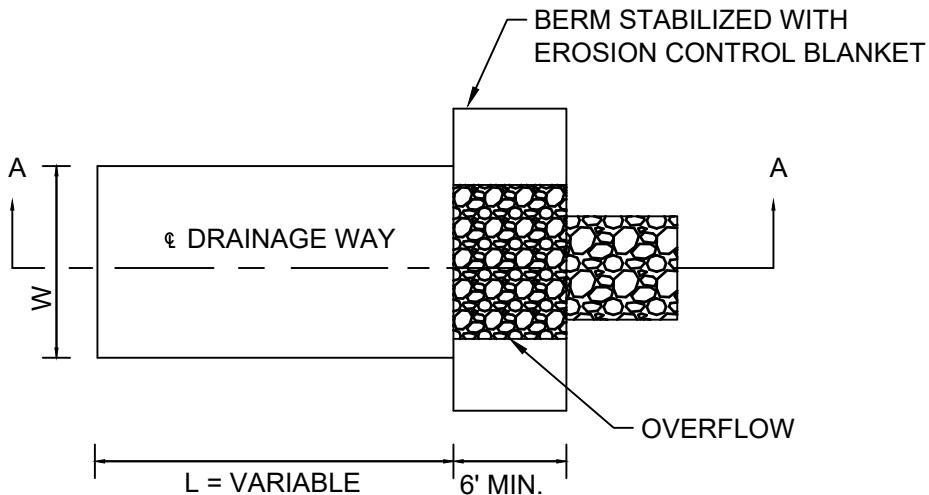


M:\AutoCAD\_STDS\WAI - STANDARD DETAILS\WAI - MUNICIPALITIES & DOT\MN - City of Corcoran\Corcoran Master Details\EROSION DETAILS\Boggs & Time: 5 January 2021 10:14 AM

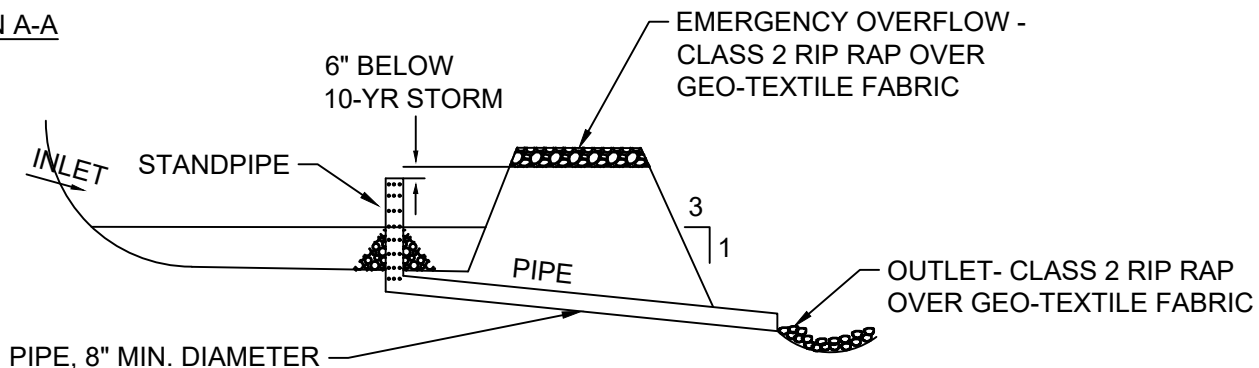
**I. PLAN VIEW**

**NOTES:**

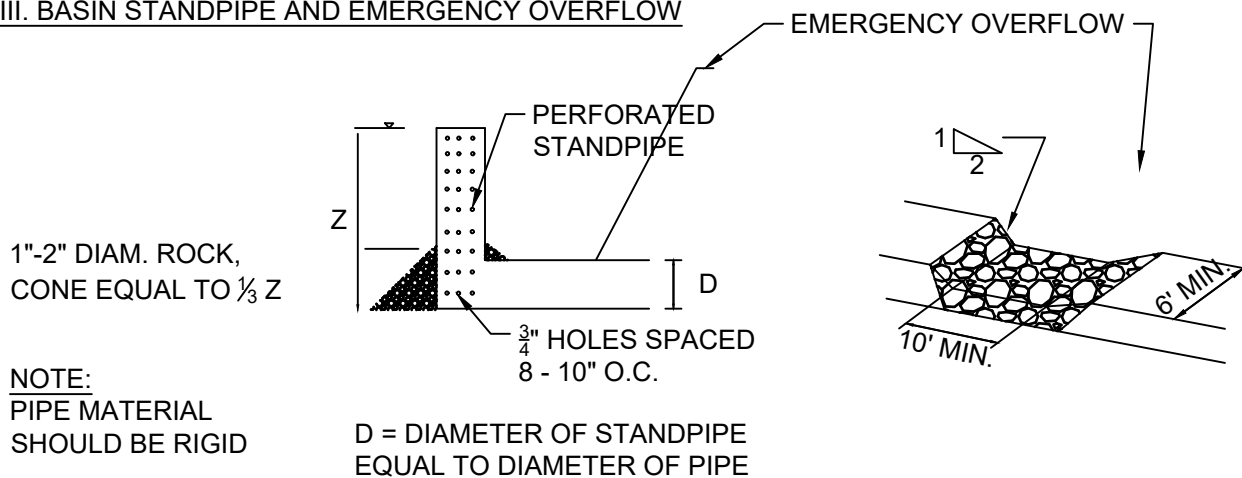
BASIN USED FOR 10 ACRES DRAINAGE AREA OR MORE. DESIGN RUNOFF VOLUME IS FROM A 2-YR, 24-HR STORM PER ACRE DRAINED TO THE BASIN. BASIN VOLUME MUST BE A MIN. OF 1800 CUBIC FEET/ACRE. SEE PLANS/SPECIFICATIONS FOR BASIN DIMENSIONS AND PIPE SIZE AND SLOPE.



**II. SECTION A-A**



**III. BASIN STANDPIPE AND EMERGENCY OVERFLOW**



**NOTE:**  
PIPE MATERIAL SHOULD BE RIGID

D = DIAMETER OF STANDPIPE EQUAL TO DIAMETER OF PIPE



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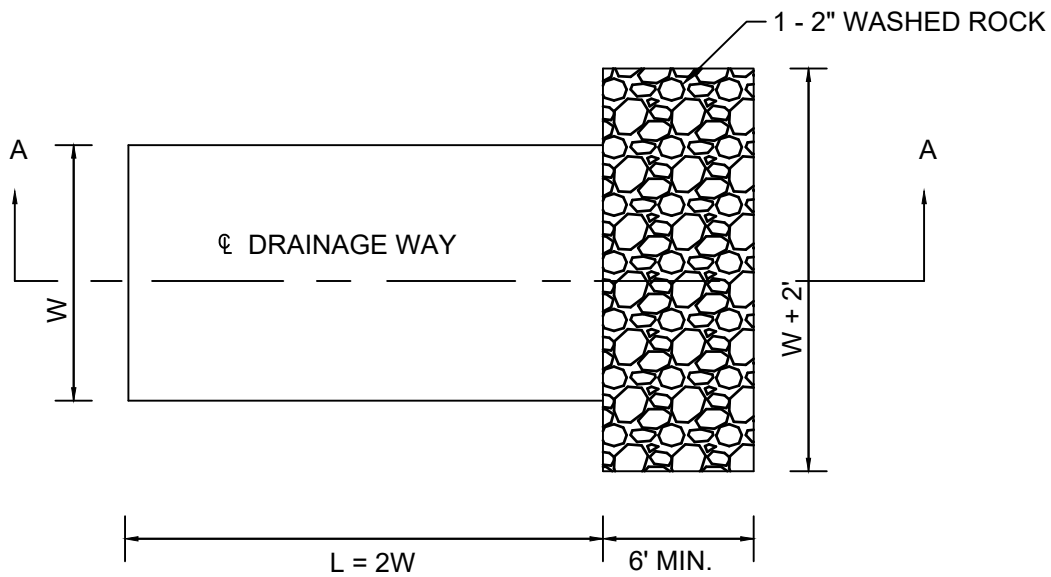
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PROJECT STANDARD PLATES

SHEET TITLE TEMPORARY SEDIMENTATION BASIN - STANDPIPE OUTLET

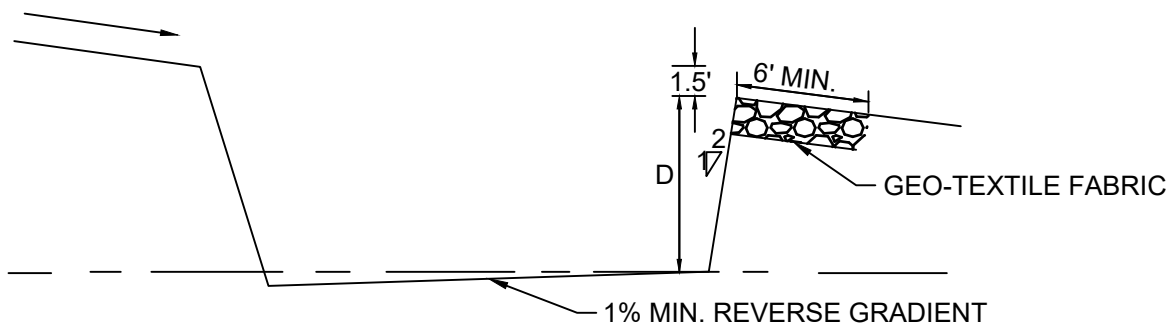
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			DEC 2013	SKH	RWS	RWS	SCALE	2294-00	ERO-7B	

**I. PLAN VIEW**



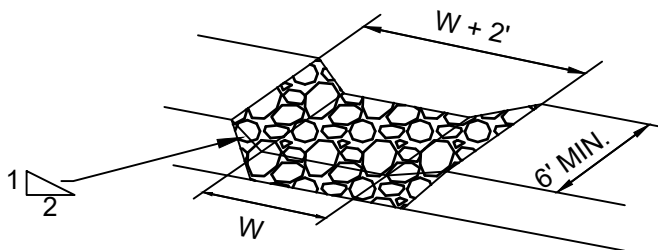
**II. SECTION A-A**

DIRECTION OF SURFACE FLOW



**NOTE:**  
 D=3' MIN, 5' MAX  
 W=10' MIN, 25' MAX W(FT.)=  
 10 X DRAINAGE AREA (AC.)

**III. TRAP OUTLET**



**NOTES:**  
 TRAP USED FOR 2.5 ACRES  
 DRAINAGE AREA OR LESS.  
 DESIGN VOLUME IS A MINIMUM  
 OF 1800 CUBIC FEET PER ACRE  
 OF CONTRIBUTING DRAINAGE  
 AREA.



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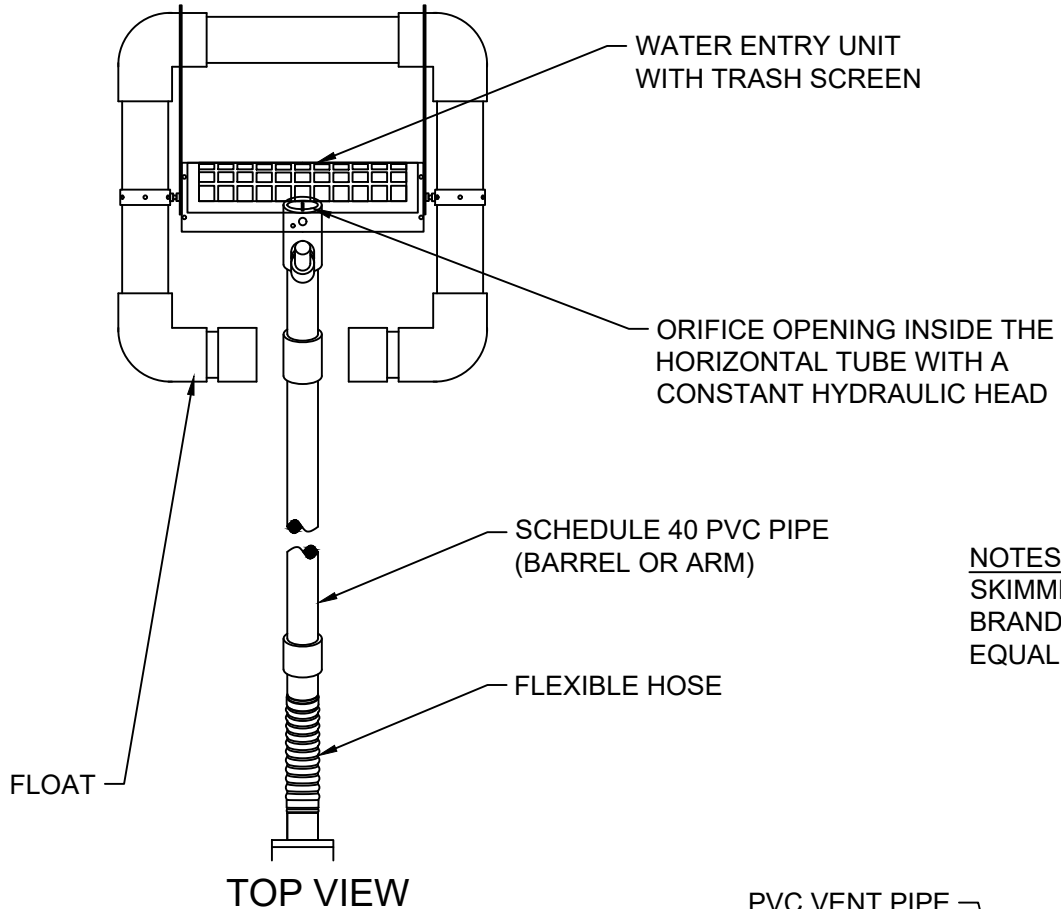
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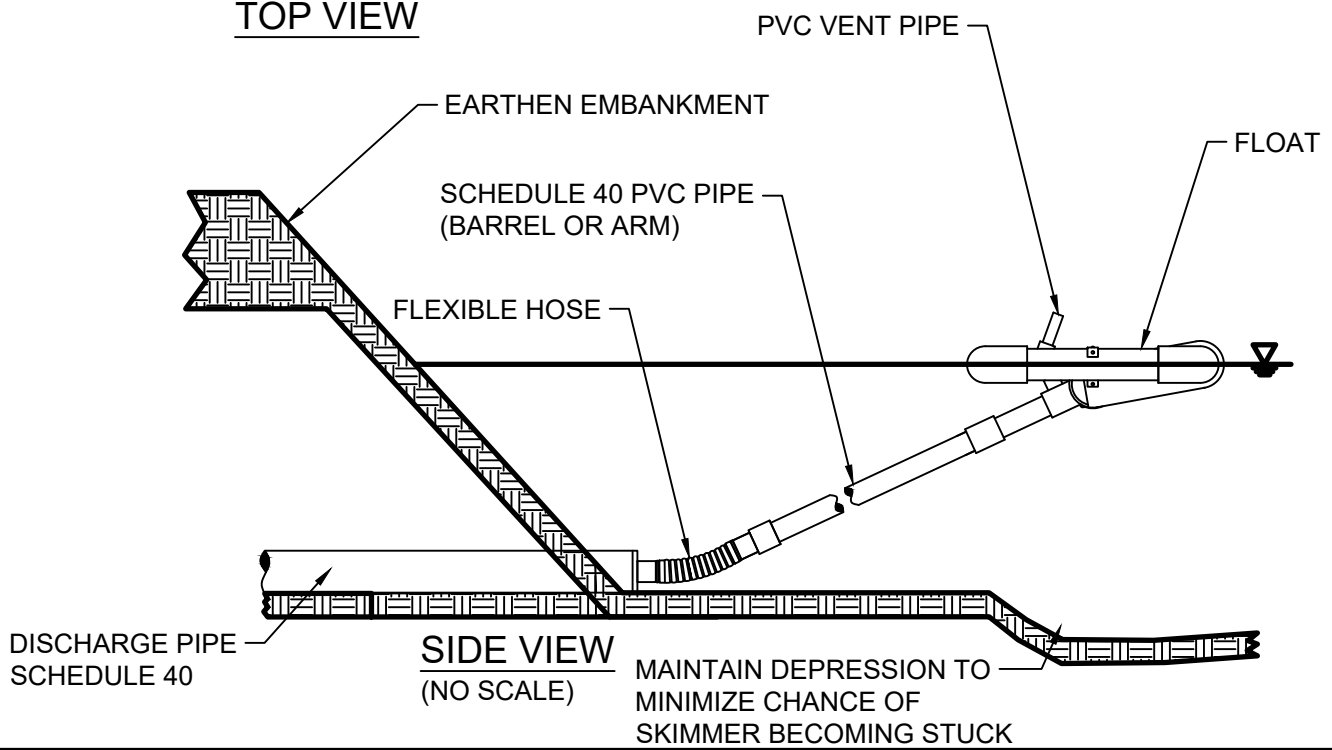
PROJECT STANDARD PLATES

SHEET TITLE TEMPORARY SEDIMENT TRAP

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			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-8	



**NOTES:**  
 SKIMMER TO BE FAIRCLOTH BRAND OR CITY APPROVED EQUAL



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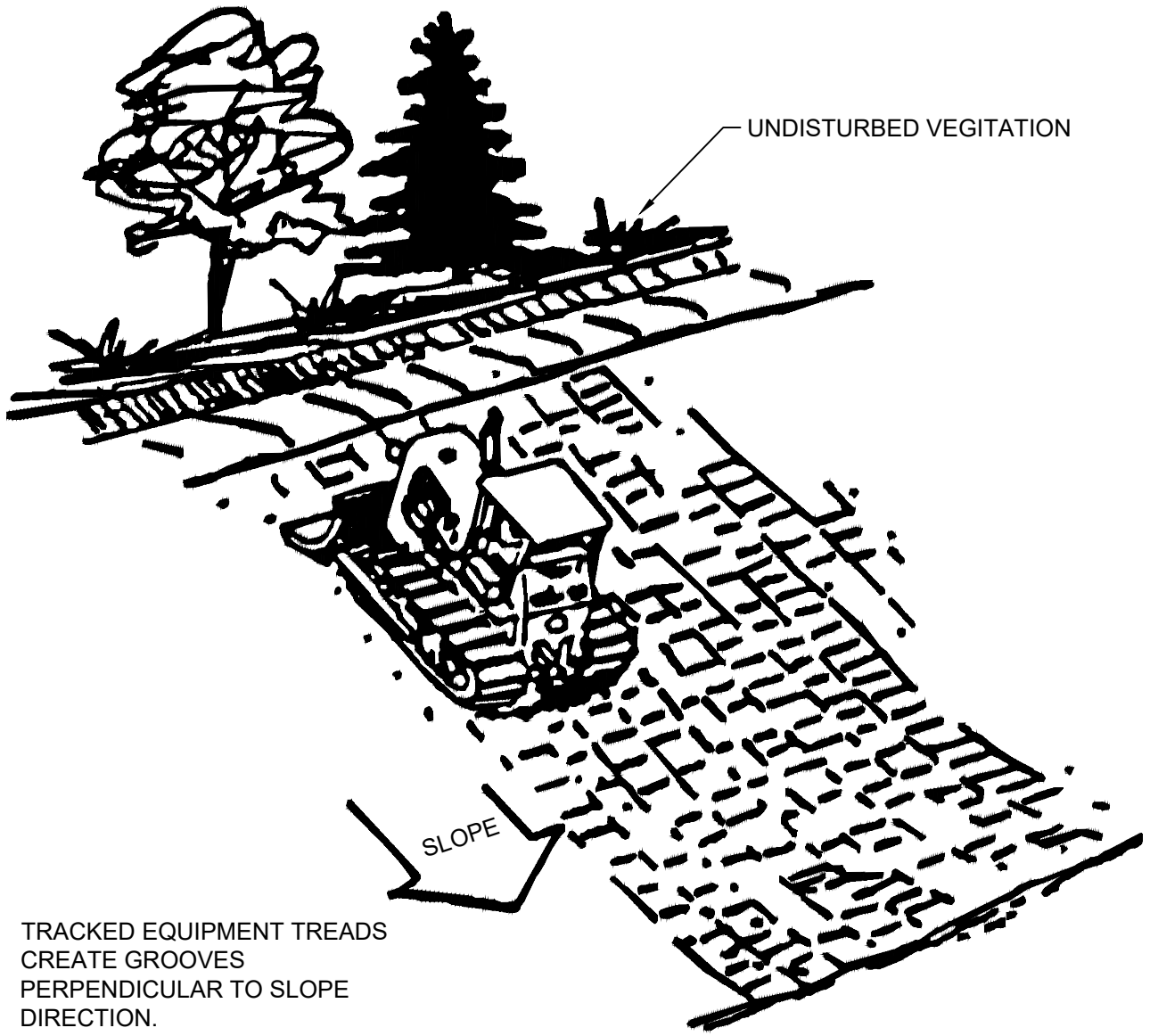
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PROJECT STANDARD PLATES

SHEET TITLE TEMPORARY SEDIMENT BASIN SKIMMER

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-9	



TRACKED EQUIPMENT TRENDS  
CREATE GROOVES  
PERPENDICULAR TO SLOPE  
DIRECTION.

**NOTE:**  
ALL SLOPES WITH A GRADE EQUAL TO OR STEEPER THAN 3:1 REQUIRE  
SLOPE TRACKING. SLOPES WITH A GRADE MORE GRADUAL THAN 3:1  
REQUIRE SLOPE TRACKING IF THE STABILIZATION METHOD IS EROSION  
CONTROL BLANKET OR HYDROMULCH.



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PROJECT  
STANDARD PLATES

SHEET  
TITLE  
SLOPE TRACKING

REV	DWN	APP	REV DATE	DWN BY	CHK'D	APP'D	DWG DATE	PROJECT NO.	SHEET NO.	REV NO.
			FEB 2015	SKH	RWS	RWS	SCALE	2294-00	ERO-10	