



STANDARD PLAN DRAWINGS

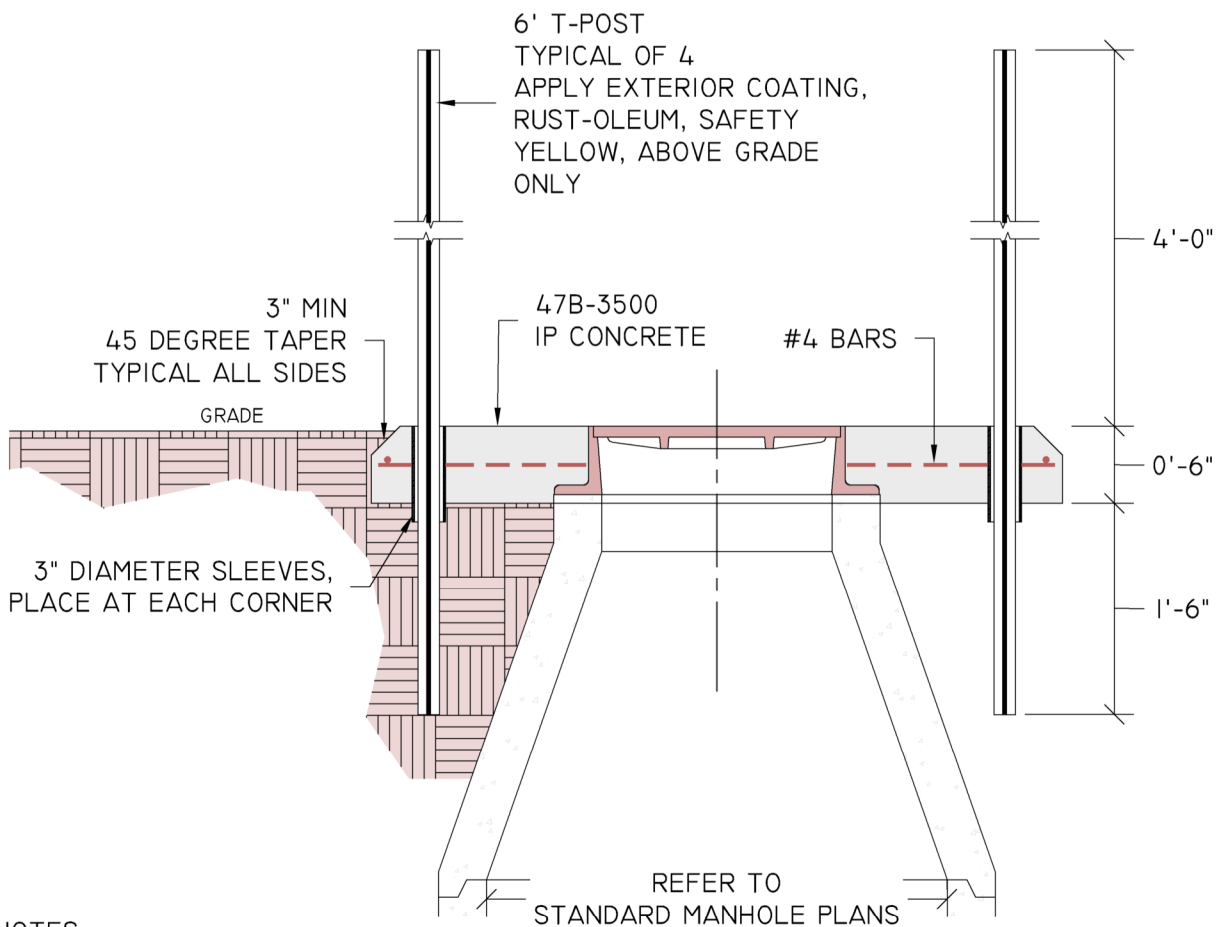
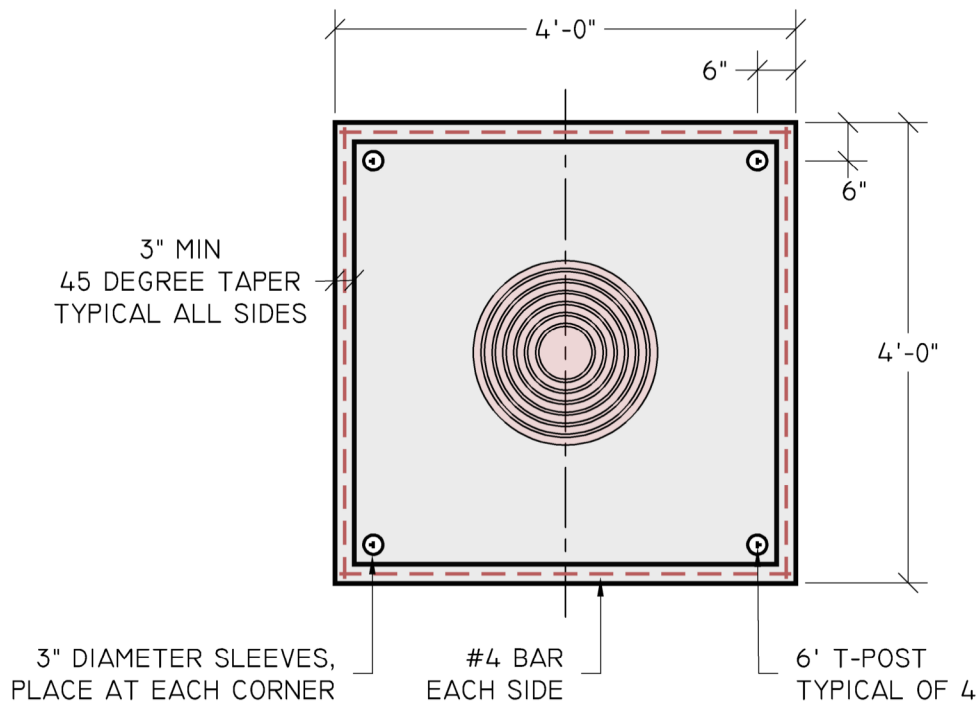
CURRENT REVISION: 2024/8/6



STANDARD PLAN DRAWINGS INDEX

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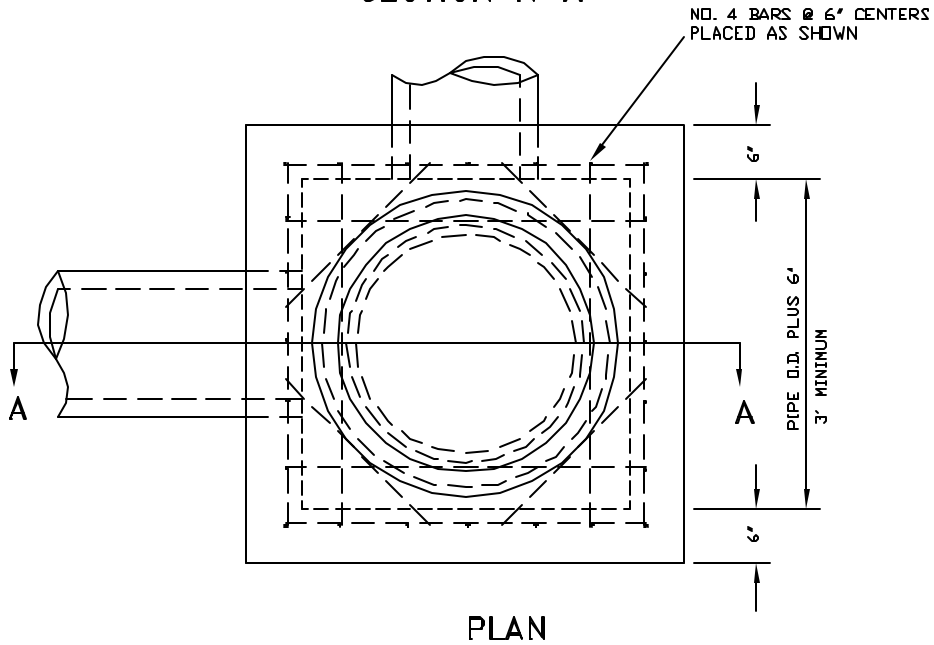
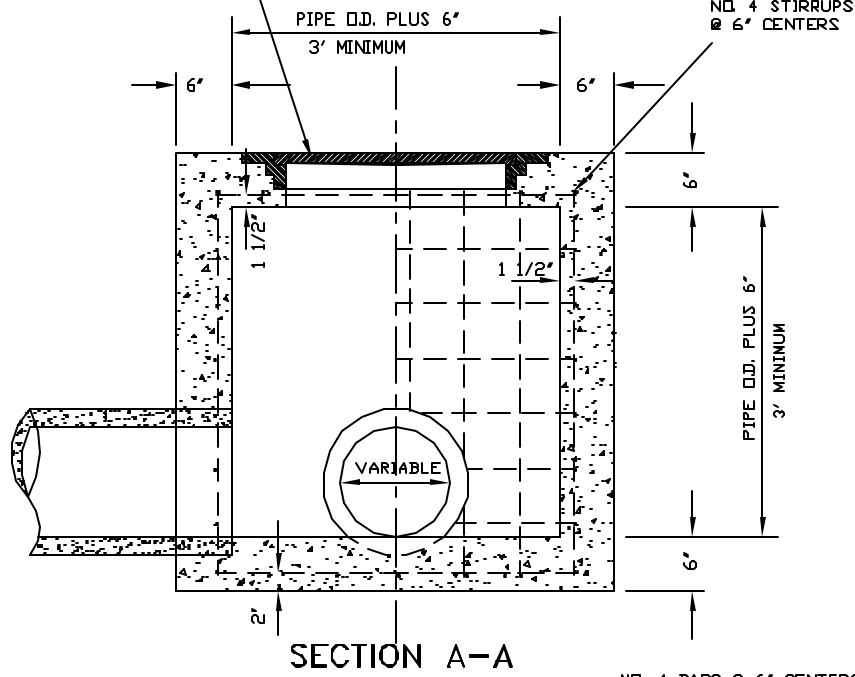
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NOTES:

1. CONCRETE FINISHES: BROOM
2. SLEEVE MATERIAL: PVC OR STEEL
3. T-POST: ENAMEL COATED, RAIL STEEL 1.25 LBS/FOOT

USE DEETER NO. 1052
MANHOLE COVER & OR
APPROVED EQUAL



REVISED 9/9/81, 9/11/84

CITY OF
GRAND ISLAND
PUBLIC WORKS DEPARTMENT

DATE: FEB. 1964
DRAWN BY J.V.N.
APPVD. BY

**JUNCTION
BOX**

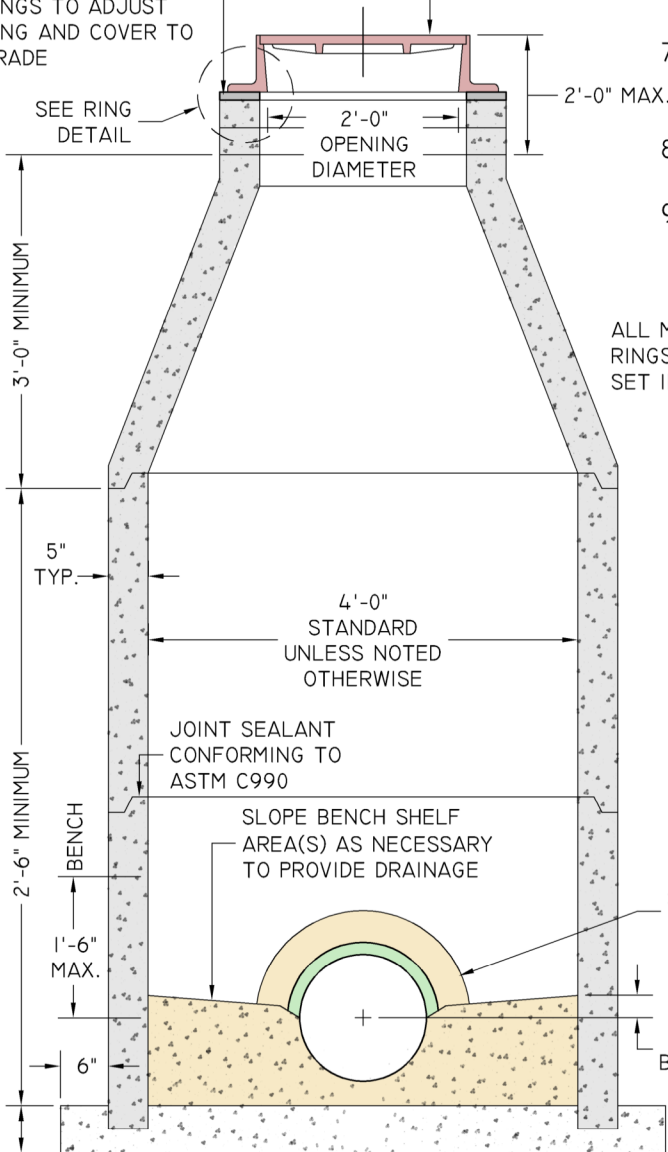
**PLAN
128**

MANHOLE NOTES:

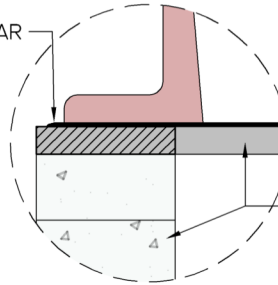
1. INSIDE DIAMETER OF MANHOLES TO BE 4'-0" FOR PIPE THROUGH 24"; 5'-0" FOR PIPE 27" THROUGH 36"; 6'-0" FOR PIPE 42" THROUGH 48"; AND 7'-0" FOR 54" PIPE.
2. 12" MINIMUM THICKNESS ADJUSTING RINGS UNDER MANHOLE RING IS REQUIRED WHEN MANHOLE IS LOCATED IN ROADWAYS, PARKING AREAS, SIDEWALKS, ETC.
3. ANY MATERIAL EXCAVATED BENEATH PIPE ENTERING OR LEAVING MANHOLES SHALL BE REPLACED WITH CONCRETE; SUCH CONCRETE FILL SHALL EXTEND TO THE CENTER OF THE PIPE FOR A DISTANCE OF AT LEAST 3'-0" FROM THE FACE OF THE MANHOLE AND SHALL TERMINATE AT A BELL.
4. PRECAST MANHOLE CIRCULAR SECTIONS TO BE PER A.S.T.M. C-478.
5. MANHOLE INVERTS SHALL BE POURED CONCRETE. SEE STD. PLAN I30.5 FOR PLAN VIEW.
6. ALL CONCRETE TO CONFORM TO DIVISION V STORM & SANITARY SEWERS SULFATE RESISTANT CONCRETE SPECIFICATIONS.
7. IF SULFATE RESISTANT CONCRETE IS UNAVAILABLE, CONSHEILD CAN BE ADDED IN TYPE I MANHOLES AS A SUBSTITUTE.
8. ECCENTRIC OR CONCENTRIC CONE SECTIONS ACCEPTABLE TO USE.
9. WITHIN PAVED ROUTES, ADJUSTMENT RING SHALL BE CONSTRUCTED OF A SOLID MATERIAL. HONEYCOMB OR HOLLOW TYPE OF ADJUSTMENT RINGS ARE PROHIBITED.

MANHOLE RING & COVER TO BE DEETER NO. 1030 OR EQUAL, WITH MACHINED EDGES & MINIMUM WEIGHT OF 380 LBS. SEE STD. PLAN I30.5

USE HDPE, EPP, CONCRETE OR STEEL ADJUSTING RINGS TO ADJUST RING AND COVER TO GRADE



ALL MANHOLE RINGS TO BE SET IN MORTAR



USE HDPE, EPP, CONCRETE OR STEEL ADJUSTING RINGS TO ADJUST RING AND COVER TO GRADE. FOLLOW MANUFACTURERS SETTING, AND SEALING INSTRUCTIONS.

RING DETAIL

SEE PLAN I30.3 FOR CONNECTION DETAIL

3" MINIMUM BENCH SLOPE

"T" "T" = 6" FOR 4' DIAMETER MANHOLE
"T" = 8" FOR 5' DIAMETER MANHOLE

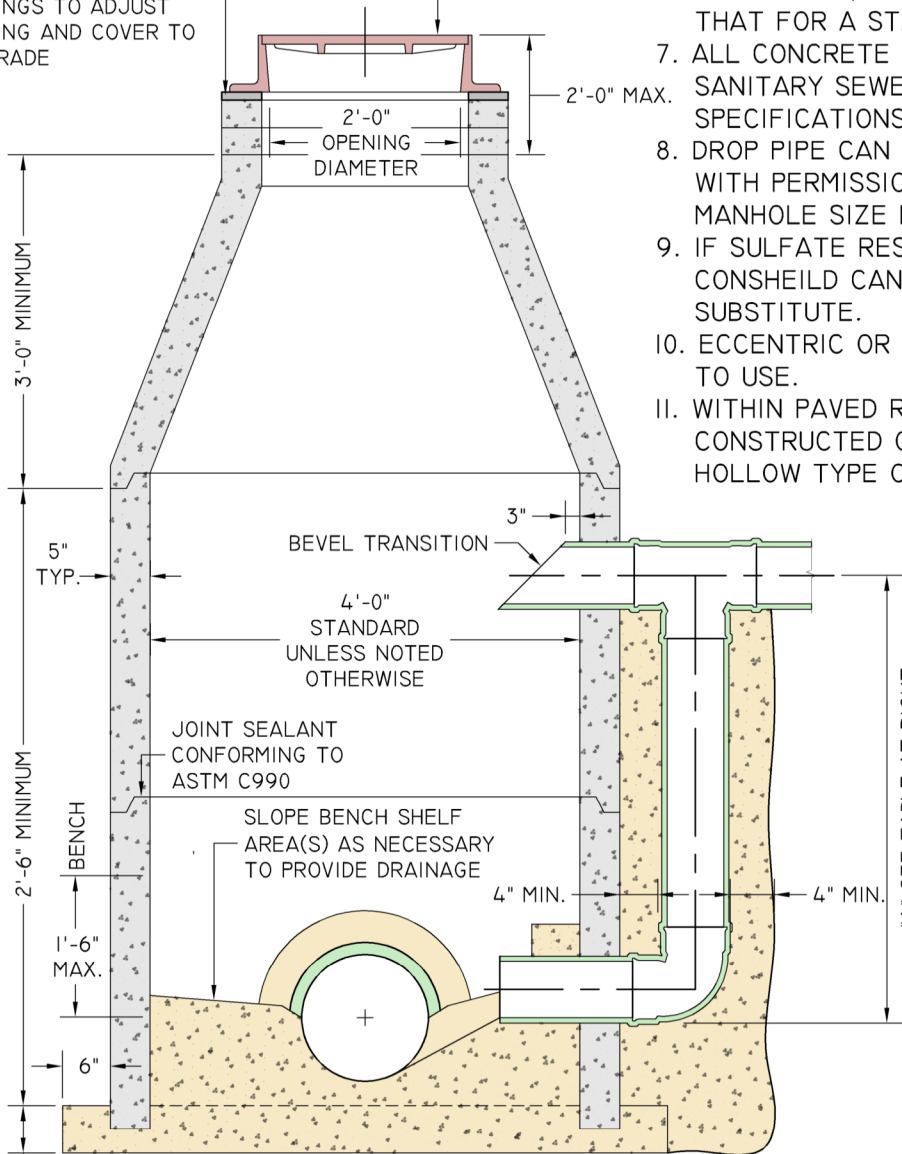
NOT TO SCALE

MANHOLE NOTES:

1. INSIDE DIAMETER OF MANHOLES TO BE 4'-0" FOR PIPE THROUGH 24"; 5'-0" FOR PIPE 27" THROUGH 36"; 6'-0" FOR PIPE 42" THROUGH 48"; AND 7'-0" FOR 54" PIPE.
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4. PRECAST MANHOLE CIRCULAR SECTIONS TO BE PER A.S.T.M. C-478
5. MANHOLE INVERTS SHALL BE POURED CONCRETE. SEE STD. PLAN 130.5 FOR PLAN VIEW.
6. EXCEPT FOR DROP ASSEMBLY, THE CONSTRUCTION OF DROP MANHOLES (INCLUDING MATERIALS) SHALL BE SIMILAR TO THAT FOR A STANDARD MANHOLE 130.1.
7. ALL CONCRETE TO CONFORM TO DIVISION V STORM & SANITARY SEWERS SULFATE RESISTANT CONCRETE SPECIFICATIONS.
8. DROP PIPE CAN ONLY BE INSTALLED INTERIOR A MANHOLE WITH PERMISSION OF THE PUBLIC WORKS DEPARTMENT. MANHOLE SIZE MAY VARY.
9. IF SULFATE RESISTANT CONCRETE IS UNAVAILABLE, CONSHEILD CAN BE ADDED IN TYPE I MANHOLES AS A SUBSTITUTE.
10. ECCENTRIC OR CONCENTRIC CONE SECTIONS ACCEPTABLE TO USE.
11. WITHIN PAVED ROUTES, ADJUSTMENT RING SHALL BE CONSTRUCTED OF A SOLID MATERIAL. HONEYCOMB OR HOLLOW TYPE OF ADJUSTMENT RINGS ARE PROHIBITED.

MANHOLE RING & COVER TO BE DEETER NO. 1030 OR EQUAL, WITH MACHINED EDGES & MINIMUM WEIGHT OF 380 LBS. SEE STD. PLAN 130.1 FOR RING DETAIL, AND 130.5 FOR RING & COVER DETAIL.

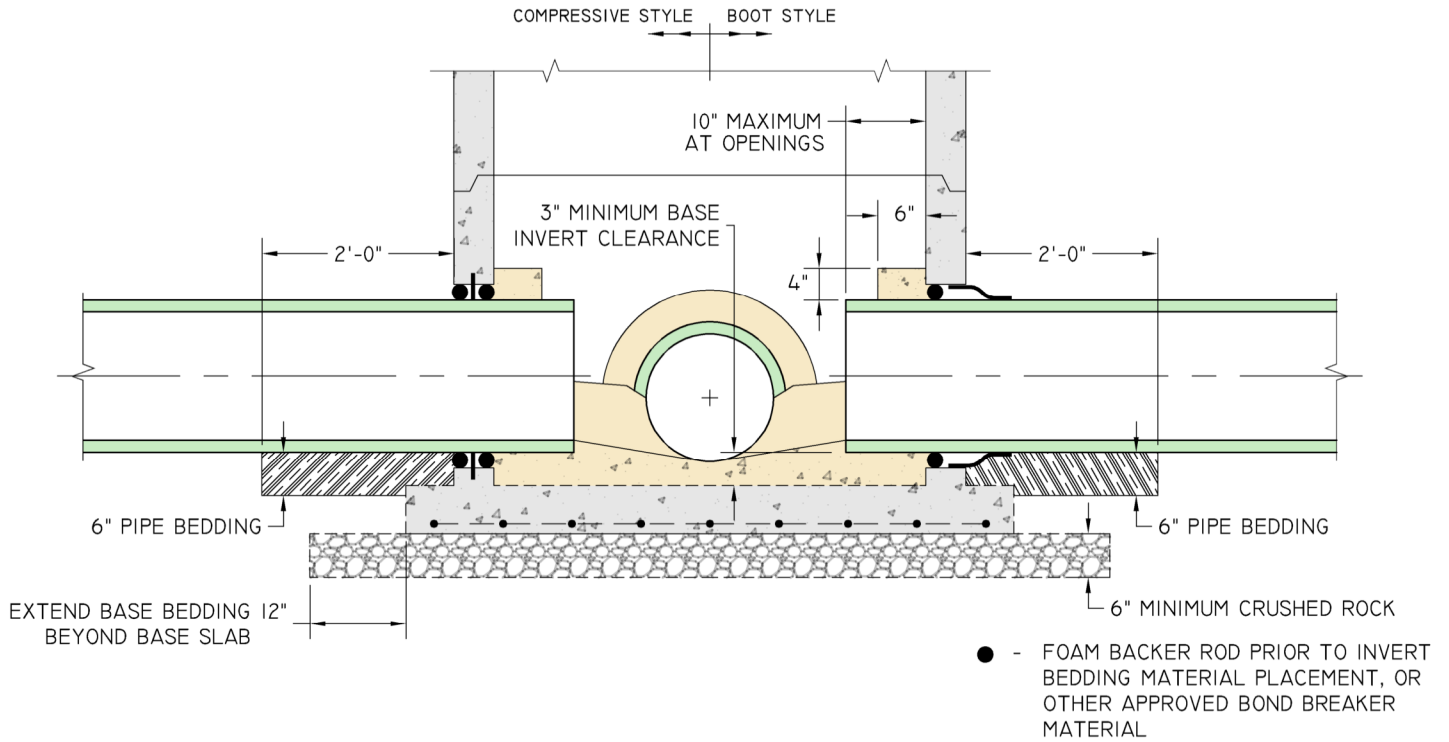
USE HDPE, EPP, CONCRETE OR STEEL ADJUSTING RINGS TO ADJUST RING AND COVER TO GRADE



"T" "T"= 6" FOR 4' DIAMETER MANHOLE
 "T"= 8" FOR 5' DIAMETER MANHOLE

NOT TO SCALE

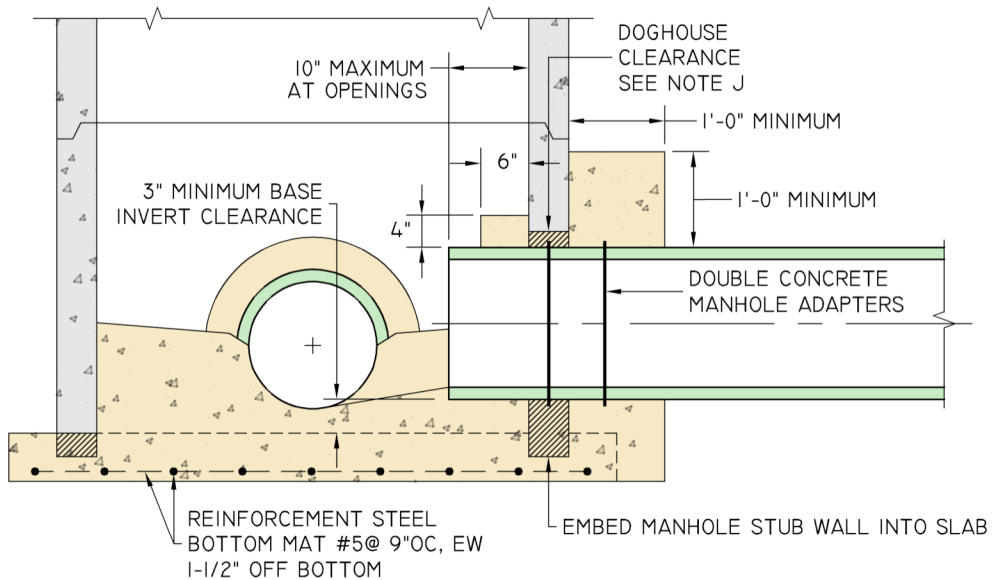
I.D. INCOMING PIPE	I.D. DROP LINE	"A" MINIMUM
8"	8"	2'-0"
10"	10"	2'-0"
12"	12"	2'-0"
15"	12"	2'-0"
18"	15"	2'-4"
21"	18"	2'-7"
24"	18"	2'-9"
27"	18"	2'-10"
30"	18"	3'-1"
36"	18"	3'-4"
42"	AS DIRECTED BY CITY ENGINEER	
48"		



PRECAST MONOLITHIC PIPE TO MANHOLE CONNECTION COMPRESSIVE AND BOOT STYLE

NOTES:

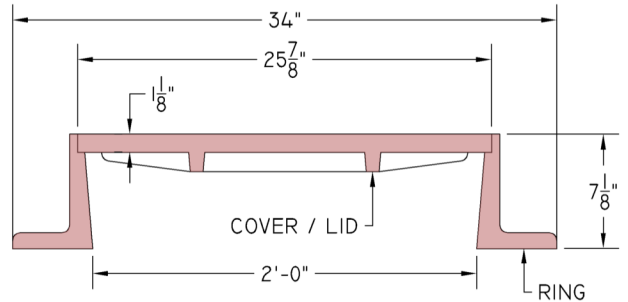
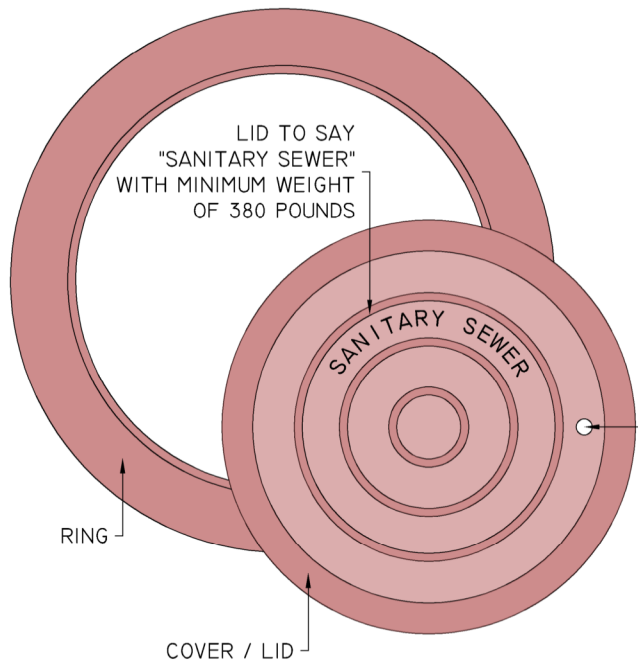
1. STRAIGHT RUN MANHOLES SHALL HAVE CONTINUOUS PIPE THRU MANHOLE. TURNING MANHOLES REQUIRE ELEVATION DROP BETWEEN FLOW LINES. PIPE JOINTS SHALL BE LOCATED OUTSIDE OF MANHOLE.
2. BEDDING FOR BASE SHALL BE EQUAL TO BEDDING FOR PIPE, EXCEPT IF PIPE IS PLACED ON NATIVE MATERIAL USE SIX (6") INCH MINIMUM CRUSHED ROCK UNDER BASE.
3. INVERT CHANNELS, SHELF, AND COLLARS SHALL BE POURED IN THE FIELD PER SULFATE RESISTANT SPECIFICATIONS.
4. REINFORCEMENT STEEL SHALL BE GRADE 60 CONFORMING TO ASTM A615.
5. BOOT STYLE; THE EXTERIOR PIPE TO MANHOLE FLEXIBLE CONNECTION SEALING POINT SHALL BE SUPPLEMENTED WITH BEAD OF GUN-GRADE POLYURETHANE SEALANT BETWEEN PIPE AND CONNECTOR PRIOR TO TIGHTENING CLAMP, AND TOPPED WITH FOUR (4") INCH WIDTH OF RUBBER ROOF COATING APPLIED AT MINIMUM EIGHTY(80) MILS THICKNESS TO PIPE, CLAMP, AND CONNECTOR. STETSON BUILDING PRODUCTS. MASTERSEAL NPI, AND INLANDS COATINGS RC 2000 OR EQUAL.
6. ALL EXTERIOR MANHOLE PIPE ENTRANCES SHALL BE BEDDED. EMBEDDED AREA SHALL BE TWO (2) FEET FROM FACE OF MANHOLE, PLACE SIX (6") INCH EMBEDMENT MATERIAL UNDER PIPE AND CONNECTOR, EXTEND MATERIAL TO SPRING LINE OF PIPE, AND CONNECTOR. EMBEDMENT SHALL BE A CLASS OF MATERIAL WHERE LITTLE OR NO COMPACTION IS NECESSARY DUE TO THE NATURE OF THE ANGULAR PARTICLES.
7. SUPPLEMENT BOOT, OR COMPRESSIVE STYLE CONNECTORS WITH BOND BREAKING MATERIAL(S) IN MAINTAINING A SEPARATION, OR A BARRIER. THE BARRIER SHALL BE CAPABLE OF MAINTAINING A SEPARATION OF ADJACENT MATERIALS FROM RESTRICTING, OR DAMAGING THE CONNECTORS SEALING FLEXIBILITY PER MANUFACTURES INSTALLATION INSTRUCTIONS.
8. CONCRETE COLLARS SHALL BE PLACED ON INTERIOR SIDE OF MANHOLES. CONCRETE PLACED OVER PIPE INTERIOR TO MANHOLE SHALL EXTEND SIX (6") INCHES FROM WALL ALONG PIPE AND BE AT LEAST FOUR (4") INCHES THICKNESS AT MINIMUM ON TOP OF PIPE.
9. CONTRACTOR SHALL PLACE FORM MATERIALS (AS PRACTICAL AS POSSIBLE) FORMING CONCRETE COLLARS PRIOR TO CONCRETE PLACEMENT, AND CONSOLIDATE WITH VIBRATORY DEVICE.



CONVENTIONAL DOGHOUSE STYE

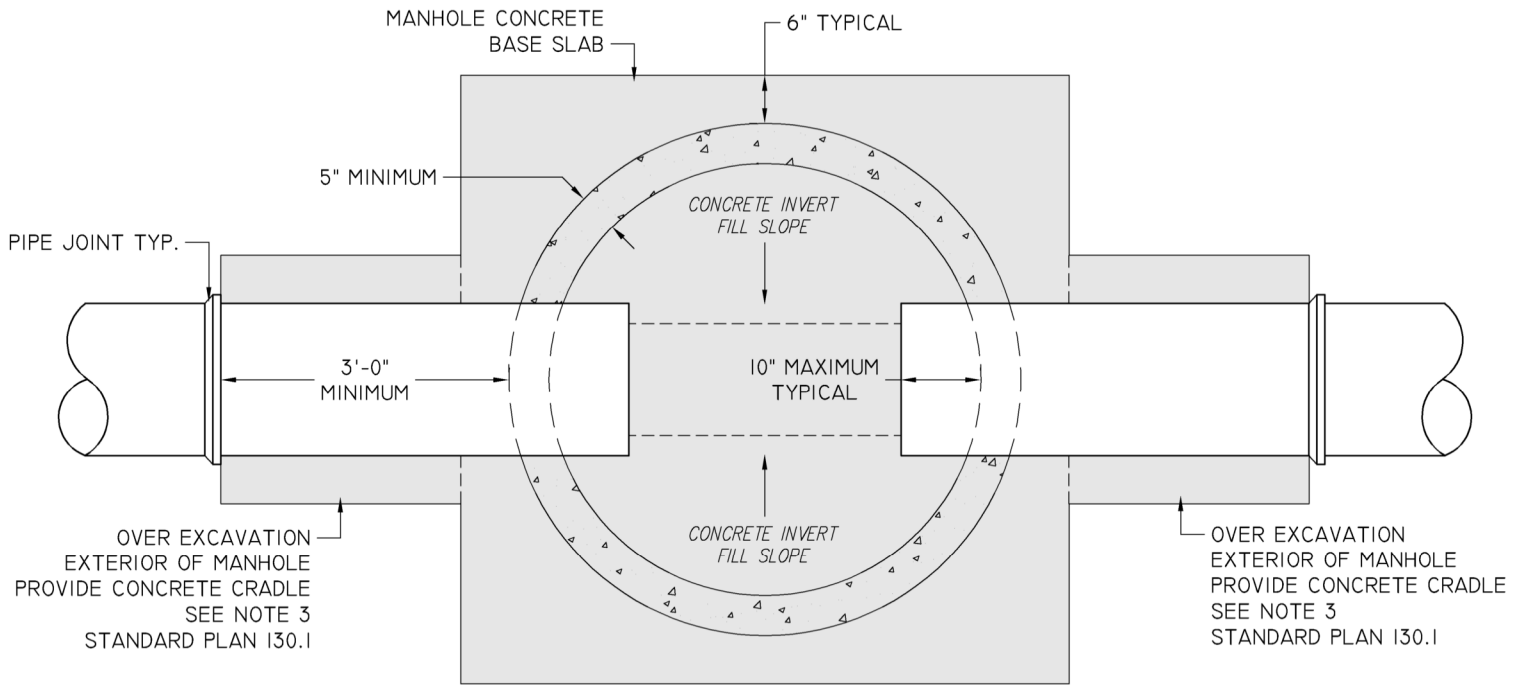
NOTES:

- A. BEDDING FOR BASE SHALL BE EQUAL TO BEDDING FOR PIPE, EXCEPT IF PIPE IS PLACED ON NATIVE MATERIAL USE SIX (6") INCH MINIMUM CRUSHED ROCK UNDER BASE.
- B. INVERT CHANNELS AND SHELF SHALL BE POURED IN THE FIELD PER SULFATE RESISTANT SPECIFICATIONS.
- C. STRAIGHT RUN MANHOLES SHALL HAVE CONTINUOUS PIPE THRU MANHOLE. TURNING MANHOLES REQUIRE ELEVATION DROP BETWEEN FLOW LINES. PIPE JOINTS SHALL BE LOCATED OUTSIDE OF MANHOLE.
- D. REINFORCEMENT STEEL SHALL BE GRADE 60 CONFORMING TO ASTM A615.
- E. EACH MANHOLE PIPE ENTRANCES SHALL HAVE TWO (2) GASKET ELASTOMERIC SEALS PER PIPE ENTRANCE CONFORMING TO ASTM F-477.
- F. CONCRETE COLLARS SHALL BE PLACED ON INTERIOR AN EXTERIOR SIDE OF MANHOLES.
- G. CONCRETE PLACED OVER PIPE INTERIOR TO MANHOLE SHALL EXTEND SIX (6") INCHES FROM WALL ALONG PIPE AND BE AT LEAST FOUR (4") INCHES THICKNESS AT MINIMUM ON TOP OF PIPE.
- H. CONCRETE PLACED OVER PIPE EXTERIOR TO MANHOLE SHALL EXTEND TWELVE (12") INCHES FROM WALL ALONG PIPE AND BE AT LEAST TWELVE (12") INCHES THICKNESS AT MINIMUM ON TOP OF PIPE.
- I. CONTRACTOR SHALL PLACE FORM MATERIALS (AS PRACTICAL AS POSSIBLE) FORMING CONCRETE COLLARS PRIOR TO CONCRETE PLACEMENT, AND CONSOLIDATE WITH VIBRATORY DEVICE.
- J. OVERSIZE OPENING CLEARANCE. MINIMUM: 1.5", MAXIMUM: 3.0" FROM 9 O'CLOCK TO 3 O'CLOCK POSITIONS. CLEARANCES GREATER THAN THREE (3") INCHES SHALL BE REJECTED, OR HAVE APPROVAL OF ENGINEER.
- K. CONCRETE BASE AND STUB WALLS SHALL BE POURED IN ONE OPERATION.



NOTE:
 1. STANDARD MANHOLE RING AND COVER TO BE DEETER #1030 WITH MACHINED BEARING SURFACE OR APPROVED EQUAL

STANDARD SANITARY SEWER MANHOLE RING & COVER DETAILS

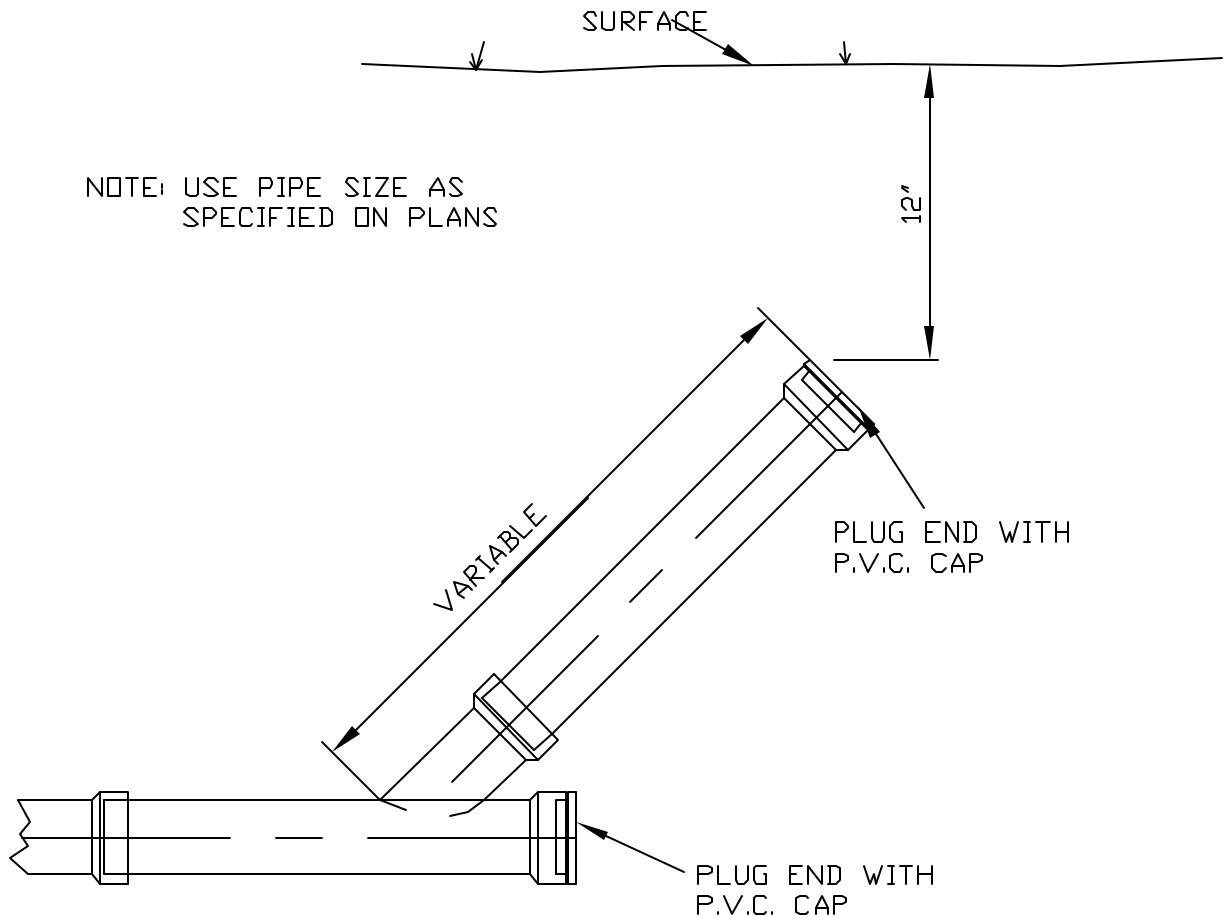


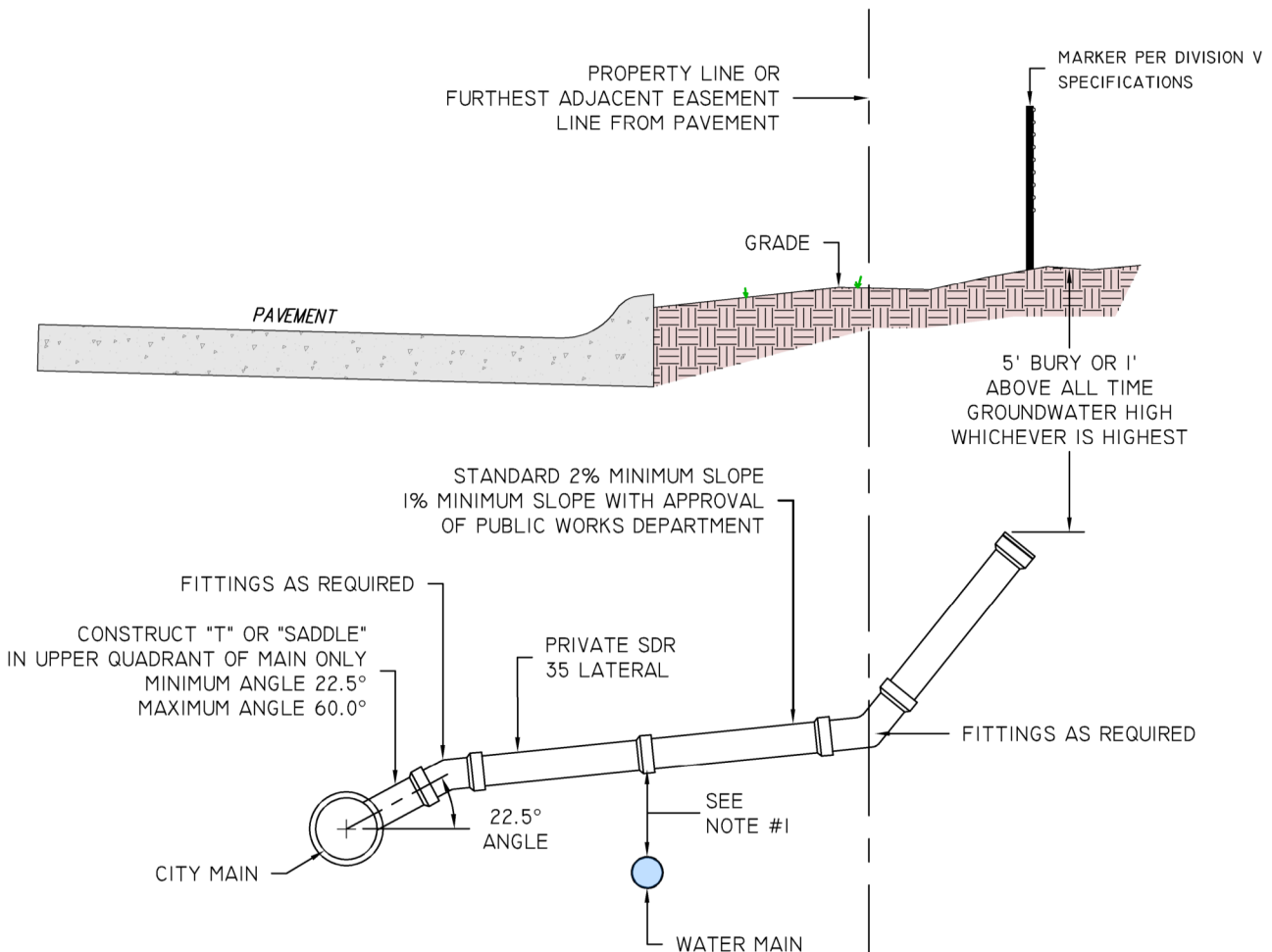
SANITARY SEWER MANHOLE BASE PLAN VIEW



STANDARD SANITARY SEWER
 MANHOLE DETAILS - CASTINGS AND BASE
 CITY STANDARD PLANS & SPECIFICATIONS
 GRAND ISLAND, NEBRASKA

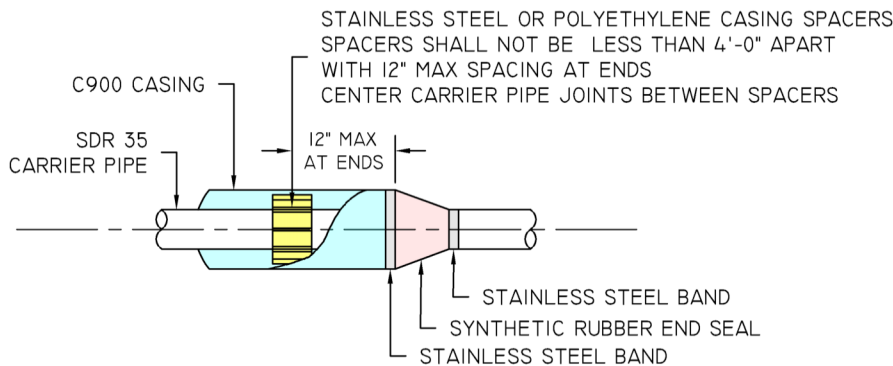
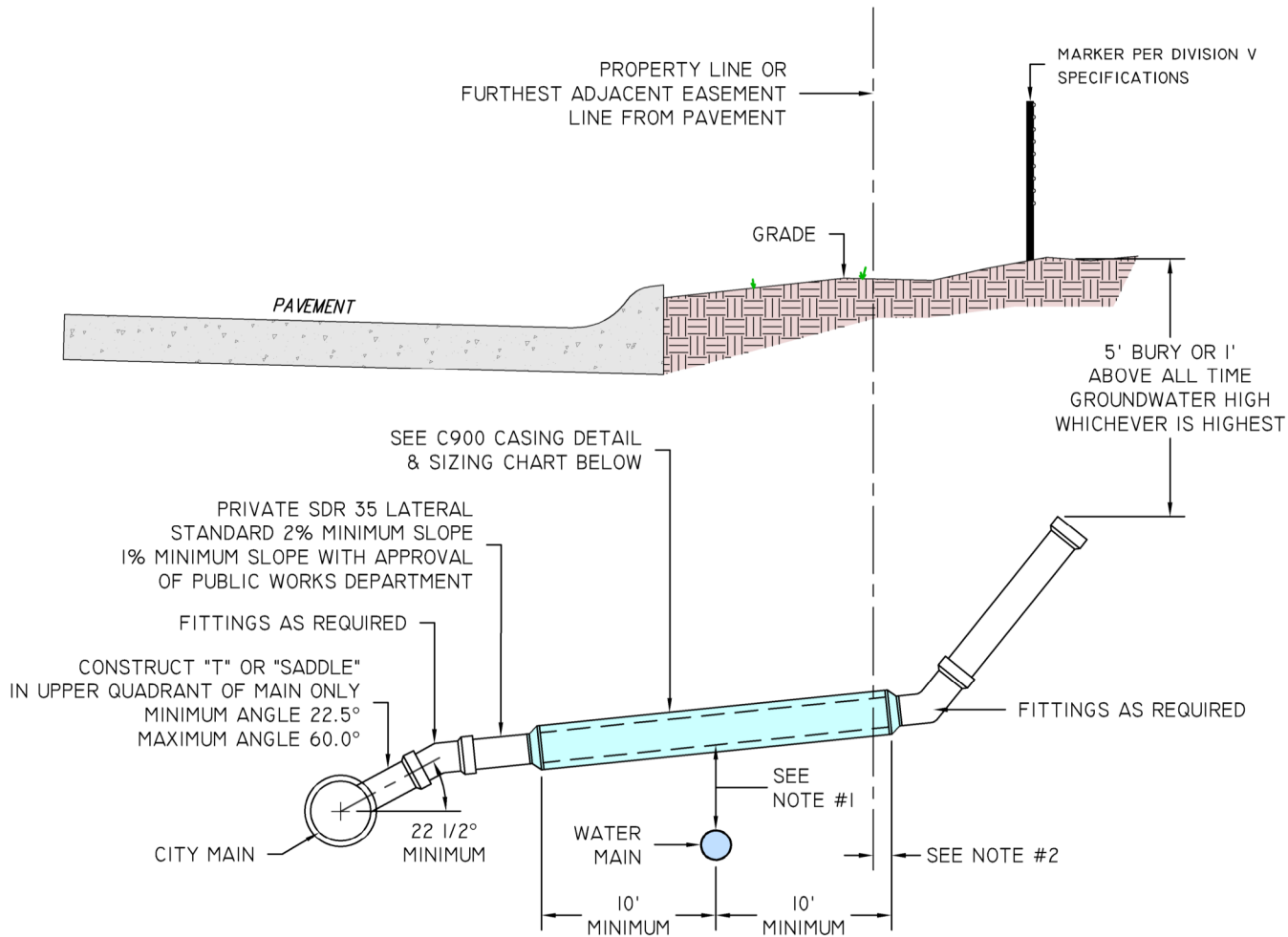
PLAN	130.5	
SHEET	5	OF 5
DRAWN BY:	MLS	DATE: 2014
REVISED BY:	RLS	DATE: 11.2023
APPROVED BY:	DATE:	





NOTES:

1. CASING PIPE REQUIRED IF 18" OR LESS, SEE PLAN I32.B.
2. 4" MINIMUM SERVICE LINE FOR RESIDENTIAL.
3. 6" MINIMUM SERVICE LINE FOR COMMERCIAL.
4. SERVICE INSTRUCTIONS:
 - A. IF ADDING NEW LATERAL SERVICE TEE.
 - CUT SEWER MAIN. (OVERALL LENGTH DETERMINED BY PUBLIC WORKS DEPARTMENT)
 - INSTALL NEW SEWER MAIN PIPE, AND LATERAL SERVICE TEE.
 - INSTALL TWO (2) MANUFACTURED SEWER PIPE RUBBER ADAPTER COUPLINGS. (FERNCO TYPE).
 - PROVIDE PROTECTIVE ENCASUREMENT PER SPLICING DETAILS - CONCRETE ENCASUREMENT, PLAN I33.
 - PROVIDE BACKFILL AND TESTING PER DIVISION V SPECIFICATIONS.
 - B. PERMITS AND INSPECTION:
 - LATERAL SERVICE LINES SHALL BE PERMITTED AND INSPECTED BY BUILDING DEPARTMENT ON EXISTING SEWER MAIN INSTALLS.
 - SERVICE TAPS SHALL BE PERMITTED AND INSPECTED BY PUBLIC WORKS DEPARTMENT ON EXISTING SEWER MAIN INSTALLS.
 - ABOVE PERMITS NOT INITIALLY REQUIRED WHEN INSTALLING SERVICES WITHIN RIGHT-OF-WAY ON NEW PUBLIC SEWER MAIN CONSTRUCTION PROJECTS, BUT WOULD APPLY WHEN SERVICE IS CONNECTED TO.



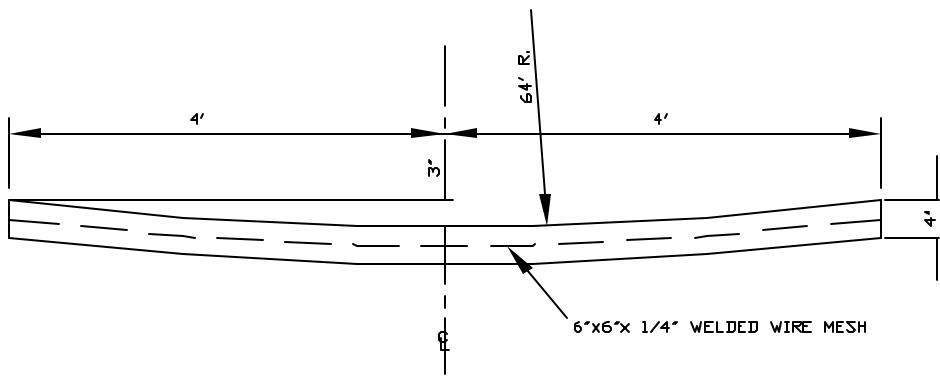
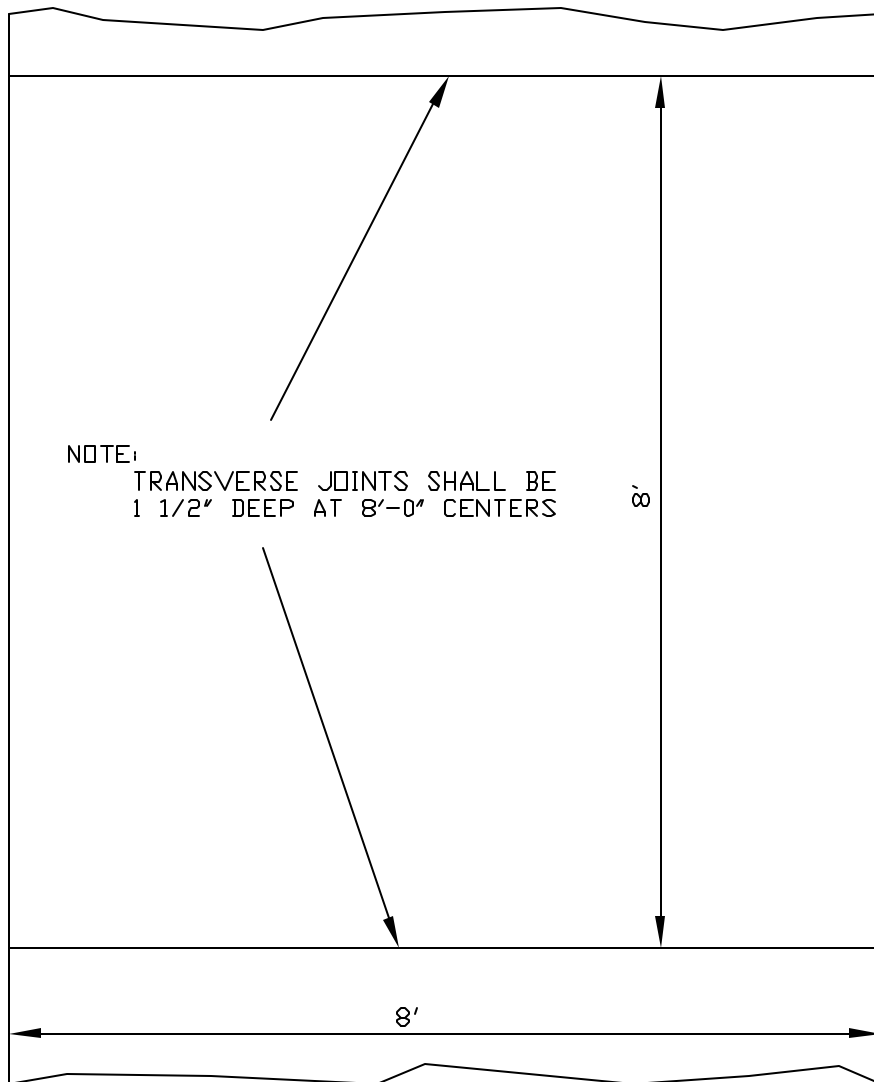
CASING DETAIL

CASING SIZE CHART

NOTES:

1. CASING REQUIRED IF WATER MAIN IS LESS THAN 18" FROM SDR CARRIER PIPE. IF GREATER THAN 18" CASING PIPE NOT NEEDED, SEE PLAN I32-A.
2. EXTEND INTO PROPERTY WITH CASING IF REQUIRED TO MEET 10'-0" MINIMUM.
3. 4" MINIMUM SERVICE LINE FOR RESIDENTIAL.
4. 6" MINIMUM SERVICE LINE FOR COMMERCIAL.

JOINT ENCASEMENT
PLAN 133



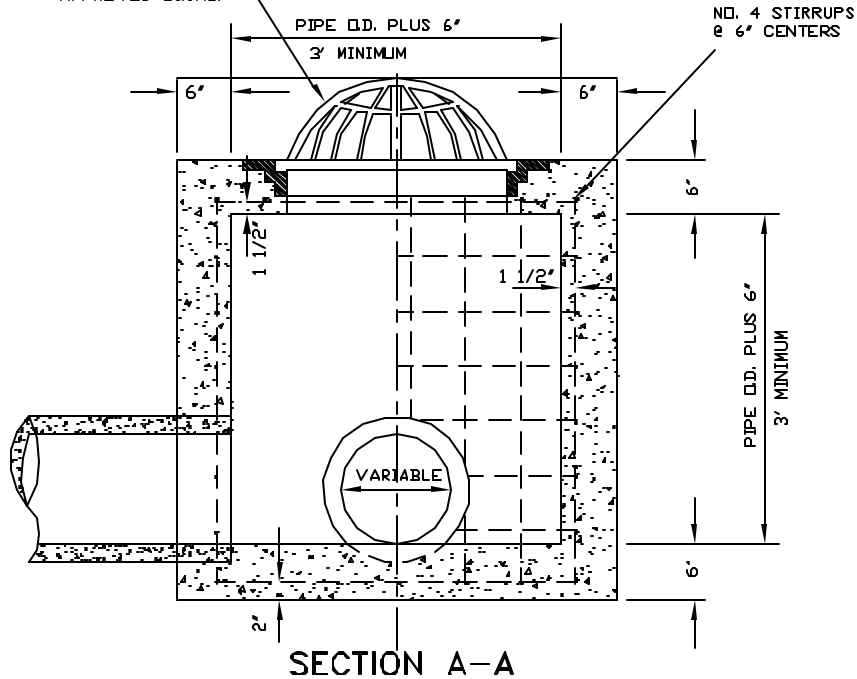
CITY OF
GRAND ISLAND
PUBLIC WORKS DEPARTMENT

DATE: FEB. 1976
DRAWN BY L.D.C.
APPVD. BY

CONCRETE APRON
DETAIL

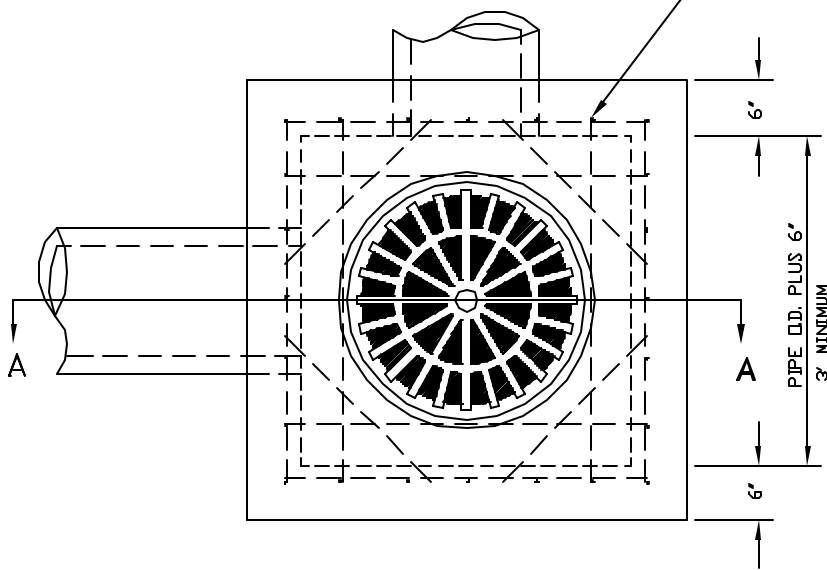
PLAN
145

USE DEETER NO. 4495
MANHOLE COVER (OR
APPROVED EQUAL)



SECTION A-A

NO. 4 BARS @ 6" CENTERS
PLACED AS SHOWN



PLAN

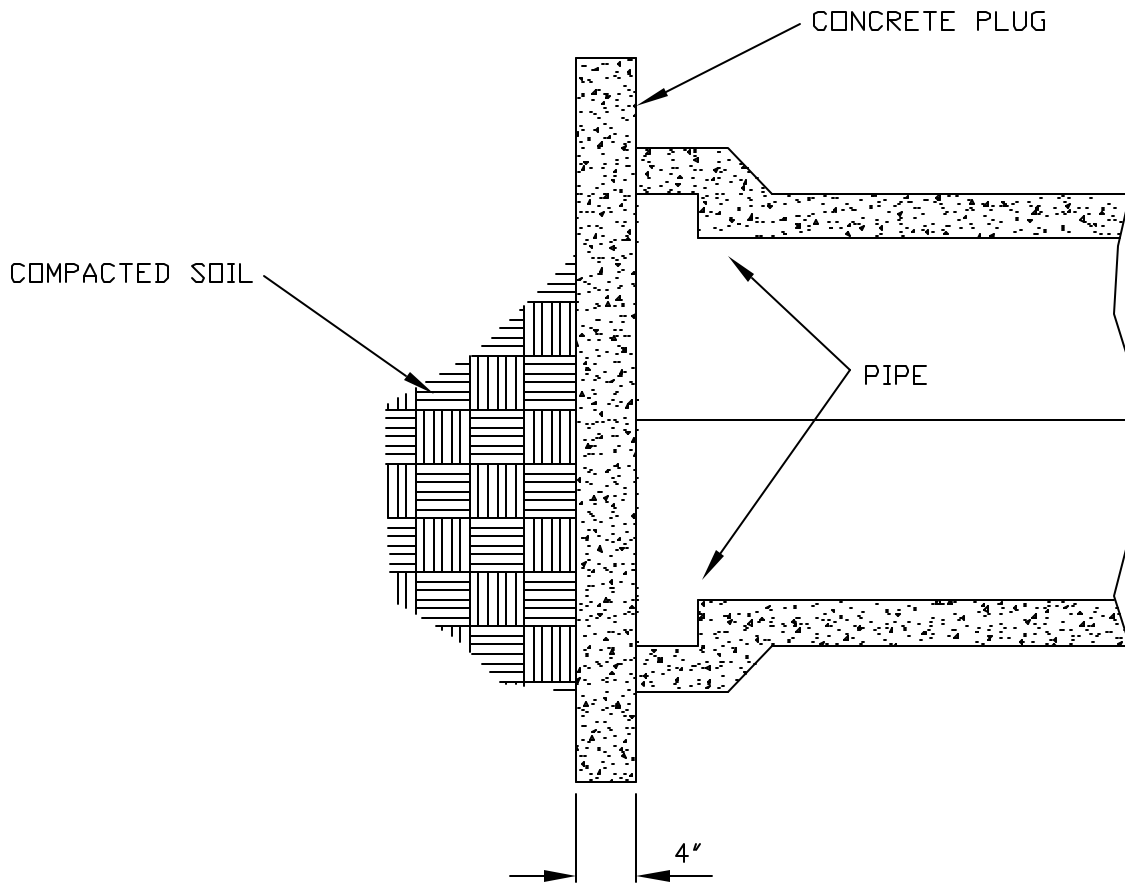
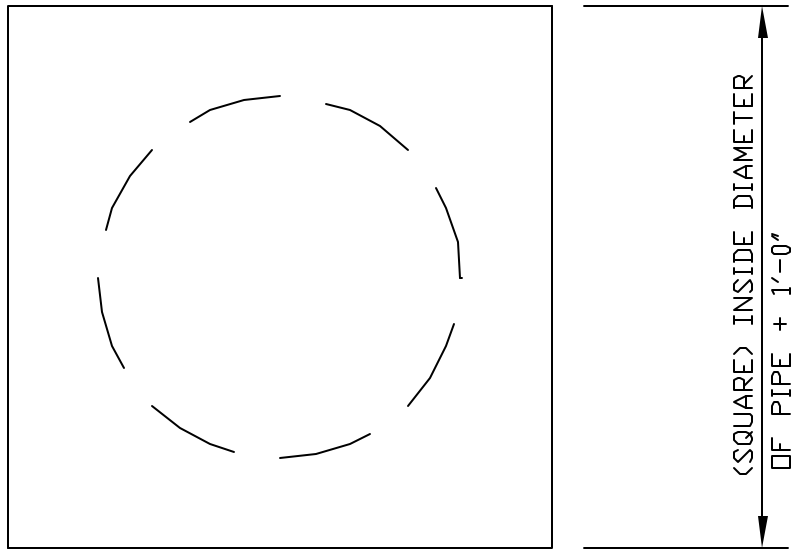
REVISED MARCH 24, 1989

CITY OF
GRAND ISLAND
PUBLIC WORKS DEPARTMENT

DATE: FEB. 1964
DRAWN BY L.D.C.
APPVD. BY

JUNCTION BOX
WITH
BEEHIVE INLET

PLAN
149



CITY OF
GRAND ISLAND
PUBLIC WORKS DEPARTMENT

DATE: FEB 1978
DRAWN BY P.E.S.
APPVD. BY B.T.

CONCRETE PLUG
FOR
STORM SEWER PIPE

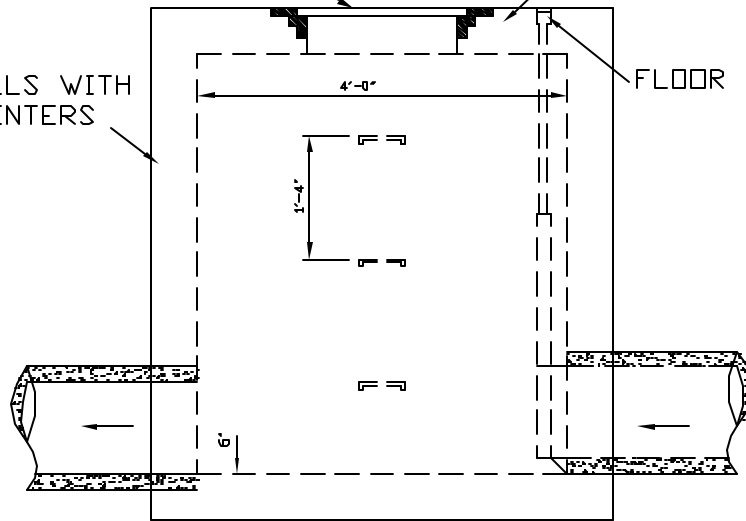
PLAN
150

USE DEETER NO. 2010
CATCH BASIN COVER
(OR APPROVED EQUAL)

6" CONC. TOP WITH
4 BARS @ 6" CENTERS
BOTH WAYS

POURED CONC. WALLS WITH
4 BARS @ 6" CENTERS
BOTH WAYS

FLOOR BOX & COVER

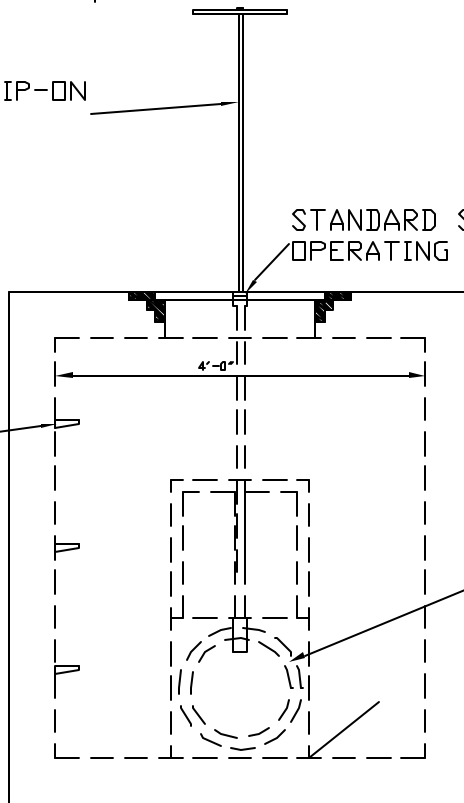


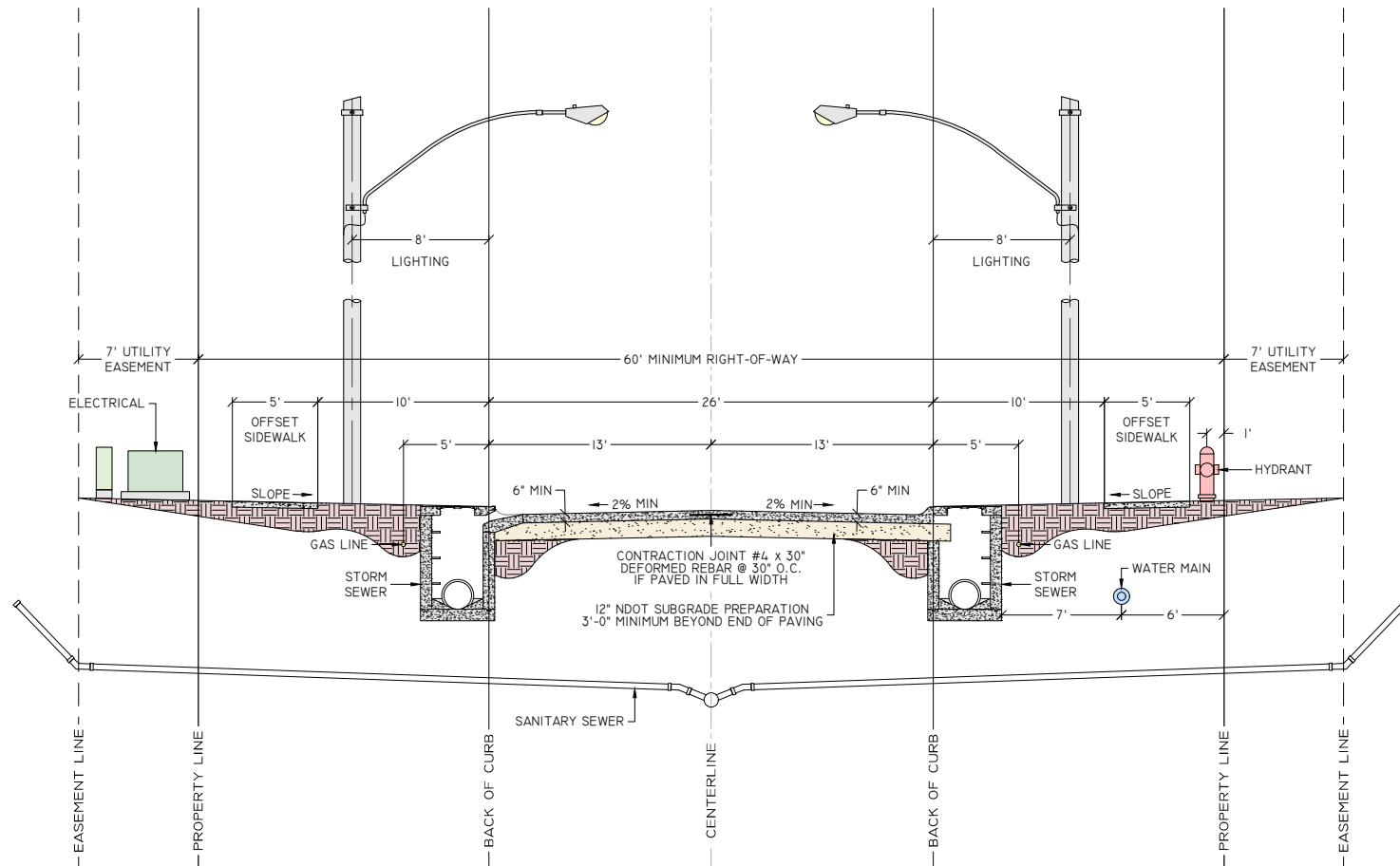
36" LONG SLIP-ON
OPERATOR

STANDARD SQUARE
OPERATING NUT

DEETER MS11
MANHOLE STEPS
(OR EQUAL)

ARMCO 20-10C
SLUICE GATE AT
90 TO PIPE





NOTES:

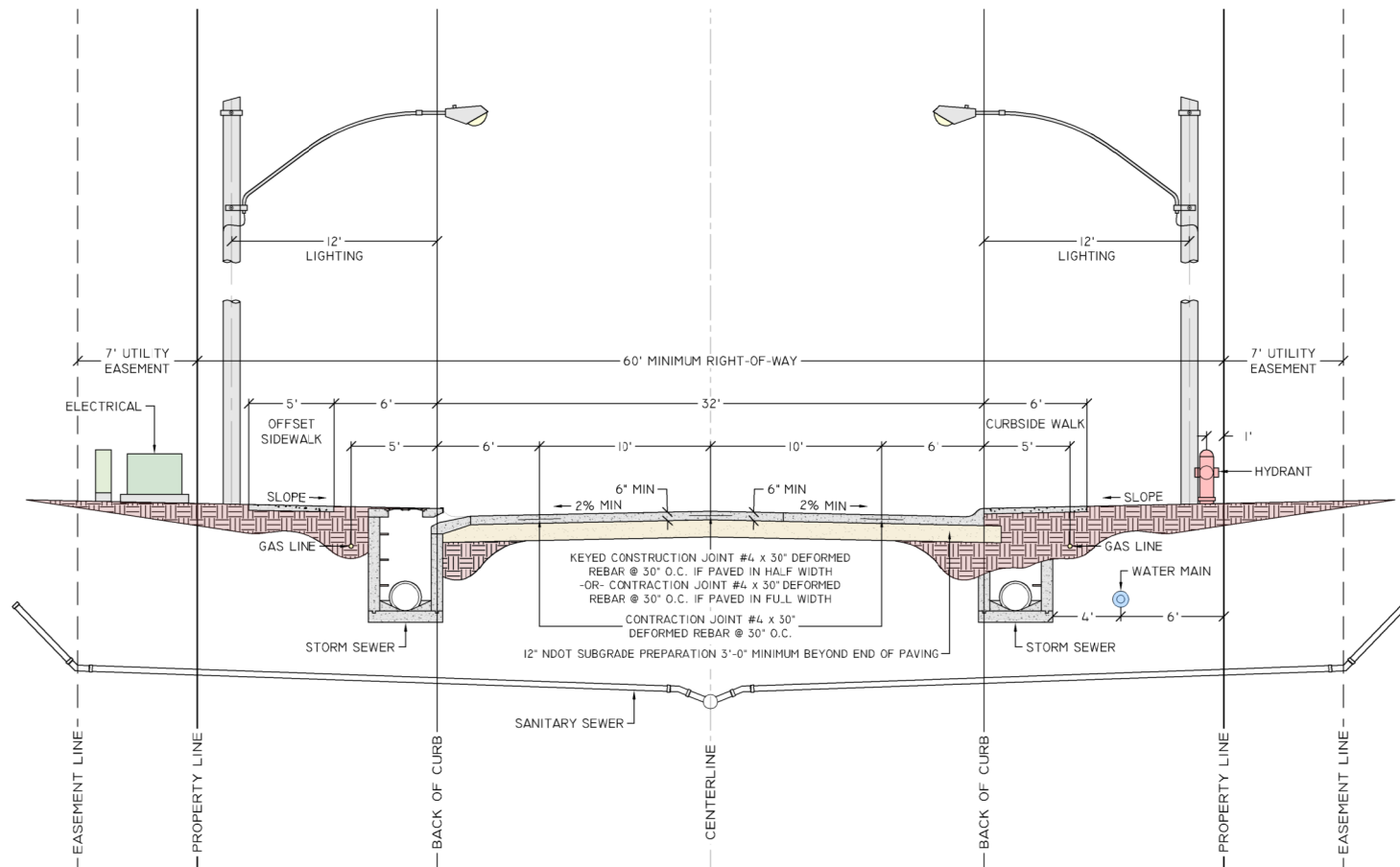
1. STREET WIDTH USE DEFINED IN SUBDIVISION REGULATION MATRIX
2. ALL SUBGRADE & FILL BELOW PAVEMENT SHALL BE TESTED AND MEET GRAND ISLAND CITY STANDARD SPECIFICATIONS FOR DENSITY AND MOISTURE
3. 12' TRANSVERSE JOINTS
4. CENTERLINE GRADE MINIMUM 0.3%
5. EXPANSION JOINTS LOCATED AT END OF INTERSECTION RETURNS MAXIMUM DISTANCE 500 FEET
6. NO PARKING
7. INFORMATION PROVIDED HEREIN REQUIRES USE OF ADDITIONAL CITY STANDARD PLAN DETAILS FOR PROPER CONSTRUCTION



26' RESIDENTIAL STREET STANDARD PAVEMENT CROSS SECTION

CITY STANDARD PLANS & SPECIFICATIONS
GRAND ISLAND, NEBRASKA

PLAN	200	
SHEET	I	OF I
DRAWN BY:	TJY	DATE: DEC 2013
REVISED BY:	MLS	DATE: JAN 2021
APPROVED BY:	KJK	DATE: MAR 2021



NOTES:

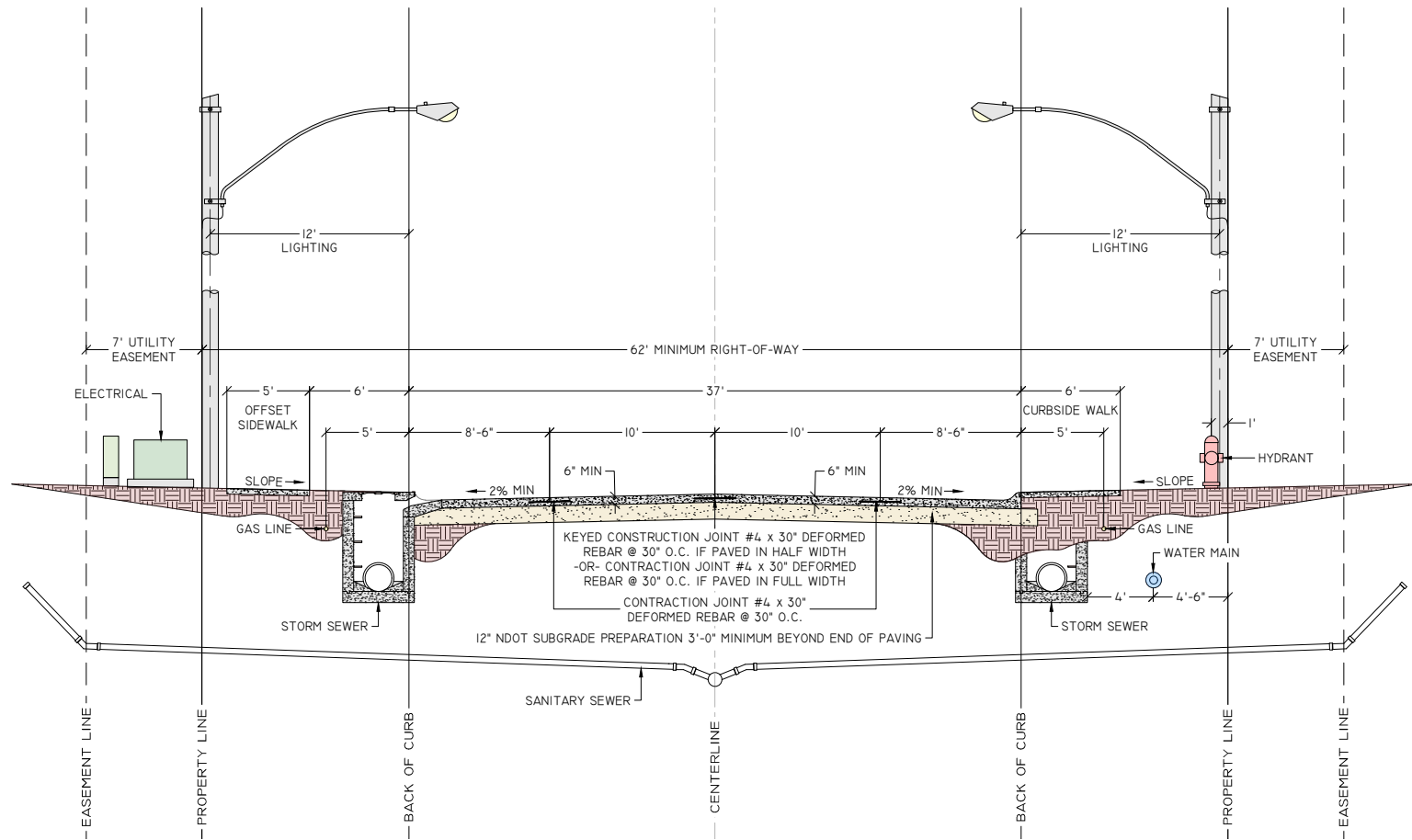
1. STREET WIDTH USE DEFINED IN SUBDIVISION REGULATION MATRIX
2. ALL SUBGRADE & FILL BELOW PAVEMENT SHALL BE TESTED AND MEET GRAND ISLAND CITY STANDARD SPECIFICATIONS FOR DENSITY AND MOISTURE
3. 12'-0" TRANSVERSE JOINTS
4. CENTERLINE GRADE MINIMUM 0.3%
5. EXPANSION JOINTS LOCATED AT END OF INTERSECTION RETURNS MAXIMUM DISTANCE 500 FEET
6. SIDEWALK LOCATION TO BE LOCATED AS DEFINED IN THE SUBDIVISION AGREEMENT
CURBSIDE SIDEWALK ONLY PERMITTED WHERE NEIGHBORHOOD MAILBOXES ARE PROVIDED
STORM SEWER INLET LID TO MATCH SIDEWALK CROSS SLOPE IF CURBSIDE SIDEWALK INSTALLED
7. PARKING MUST BE RESTRICTED BY DRIVEWAY OPENINGS OR OTHER ITEMS, AND PLAN TO DO SO SHALL BE APPROVED PRIOR TO USE TO ALLOW FOR FIRE DEPARTMENT CLEAR WIDTH REQUIREMENTS. IF PARKING PLAN APPROVAL CAN NOT BE MEET, USE OF 34' PAVING CAN BE SUBSTITUTED WITHOUT PARKING RESTRICTIONS. ADDED WIDTH STREET SHALL MAKE OUTSIDE PANEL 7' ON THE ABOVE DETAIL, OTHERWISE DETAIL REMAINS THE SAME
8. INFORMATION PROVIDED HEREIN REQUIRES USE OF ADDITIONAL CITY STANDARD PLAN DETAILS FOR PROPER CONSTRUCTION



32' RESIDENTIAL STREET STANDARD PAVEMENT CROSS SECTION

CITY STANDARD PLANS & SPECIFICATIONS
GRAND ISLAND, NEBRASKA

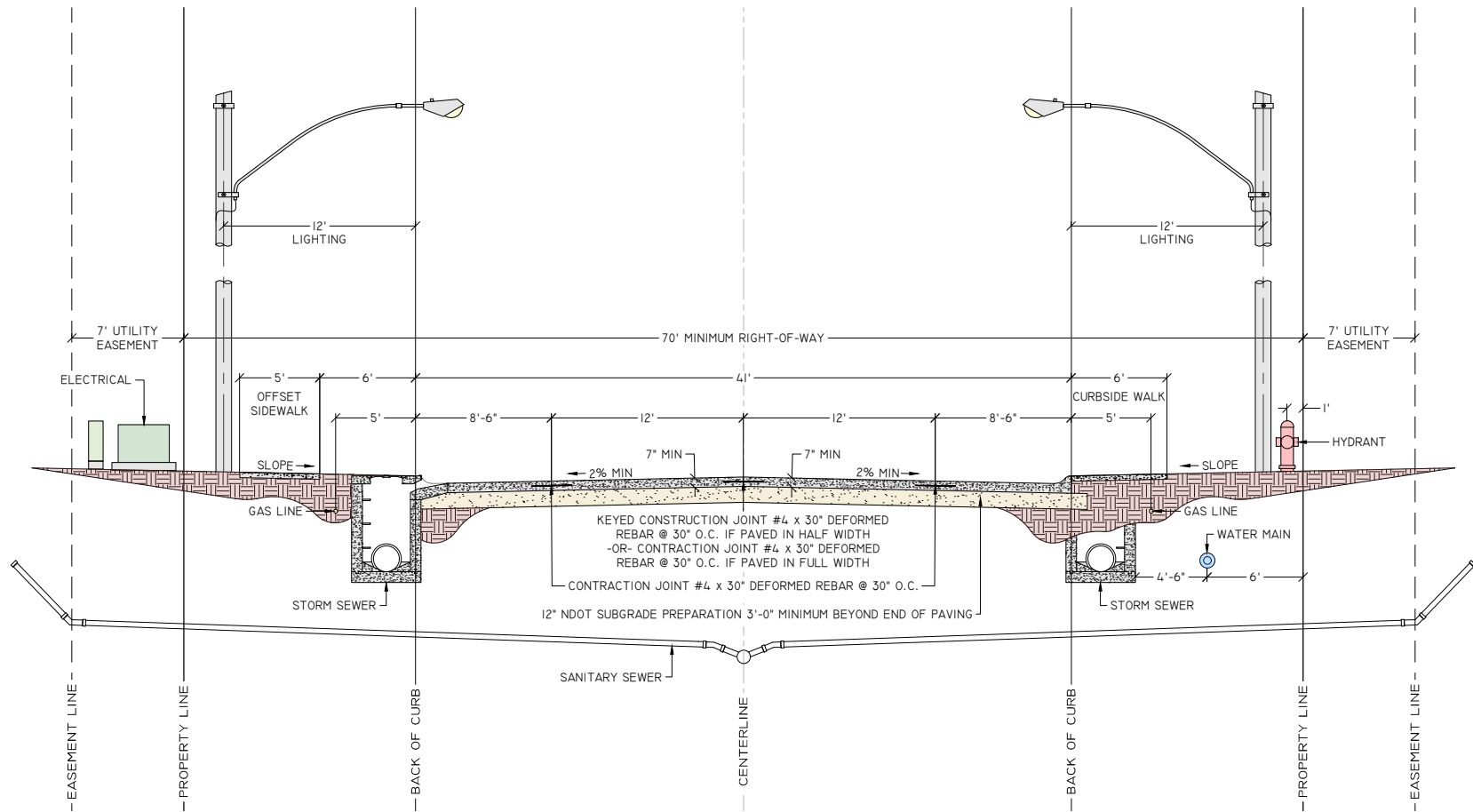
PLAN	201		
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DRAWN BY:	TJY	DATE:	DEC 2013
REVISED BY:	MLS	DATE:	JAN 2021
APPROVED BY:	KJK	DATE:	JULY 2022



NOTES:

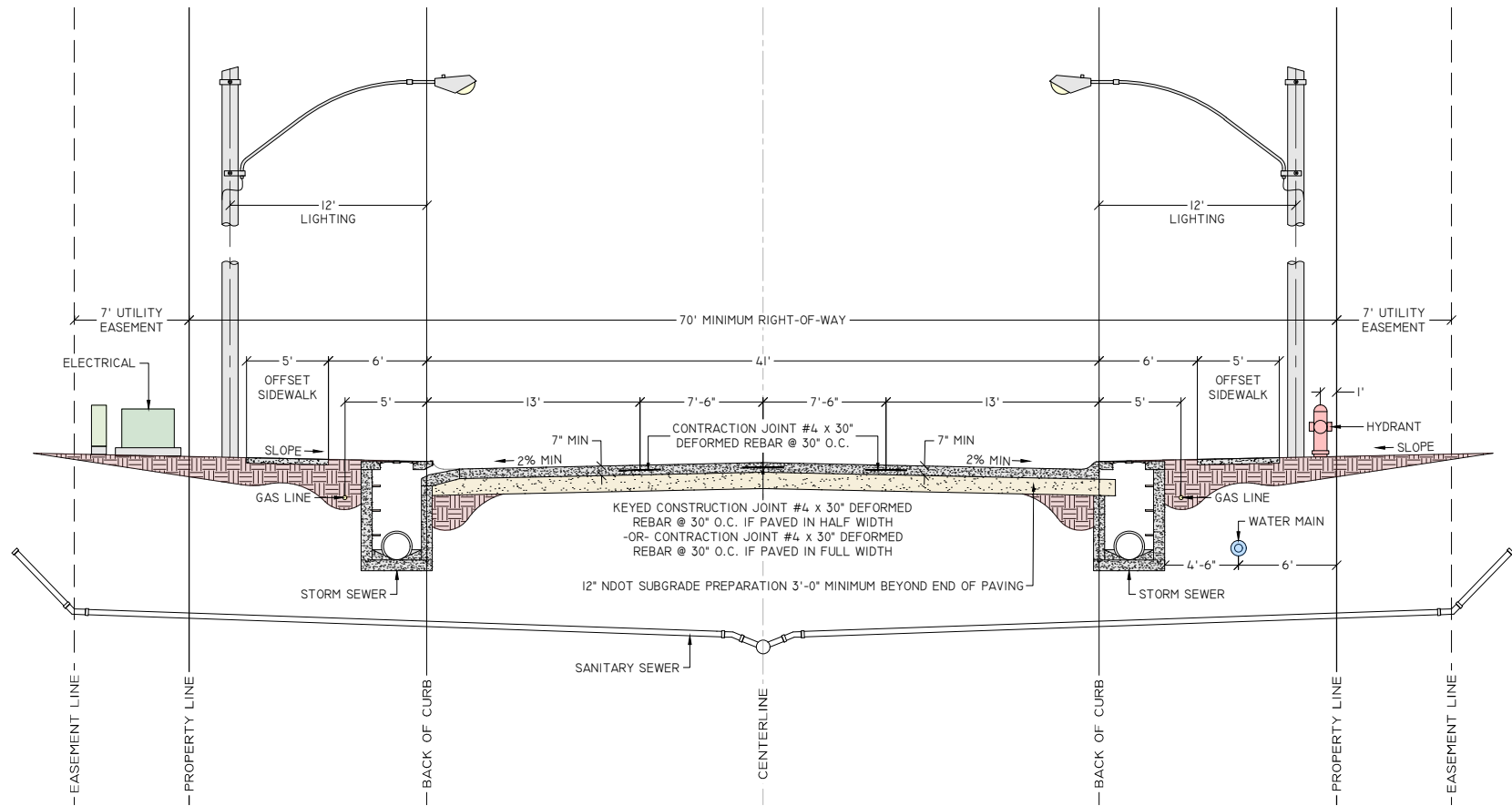
1. STREET WIDTH USE DEFINED IN SUBDIVISION REGULATION MATRIX
2. ALL SUBGRADE & FILL BELOW PAVEMENT SHALL BE TESTED AND MEET GRAND ISLAND CITY STANDARD SPECIFICATIONS FOR DENSITY AND MOISTURE
3. 12'-0" TRANSVERSE JOINTS
4. CENTERLINE GRADE MINIMUM 0.3%
5. EXPANSION JOINTS LOCATED AT END OF INTERSECTION RETURNS MAXIMUM DISTANCE 500 FEET
6. SIDEWALK LOCATION TO BE LOCATED AS DEFINED IN THE SUBDIVISION AGREEMENT
 CURBSIDE SIDEWALK ONLY PERMITTED WHERE NEIGHBORHOOD MAILBOXES ARE PROVIDED
 STORM SEWER INLET LID TO MATCH SIDEWALK CROSS SLOPE IF CURBSIDE SIDEWALK INSTALLED
7. PARKING MAY BE RESTRICTED
8. INFORMATION PROVIDED HEREIN REQUIRES USE OF ADDITIONAL CITY STANDARD PLAN DETAILS FOR PROPER CONSTRUCTION

	37' RESIDENTIAL STREET STANDARD PAVEMENT CROSS SECTION		PLAN	202
			SHEET	I OF I
	CITY STANDARD PLANS & SPECIFICATIONS GRAND ISLAND, NEBRASKA		DRAWN BY: TJY	DATE: DEC 2013
		REVISED BY: MLS	DATE: JAN 2021	
		APPROVED BY: KJK	DATE: MAR 2021	



NOTES:

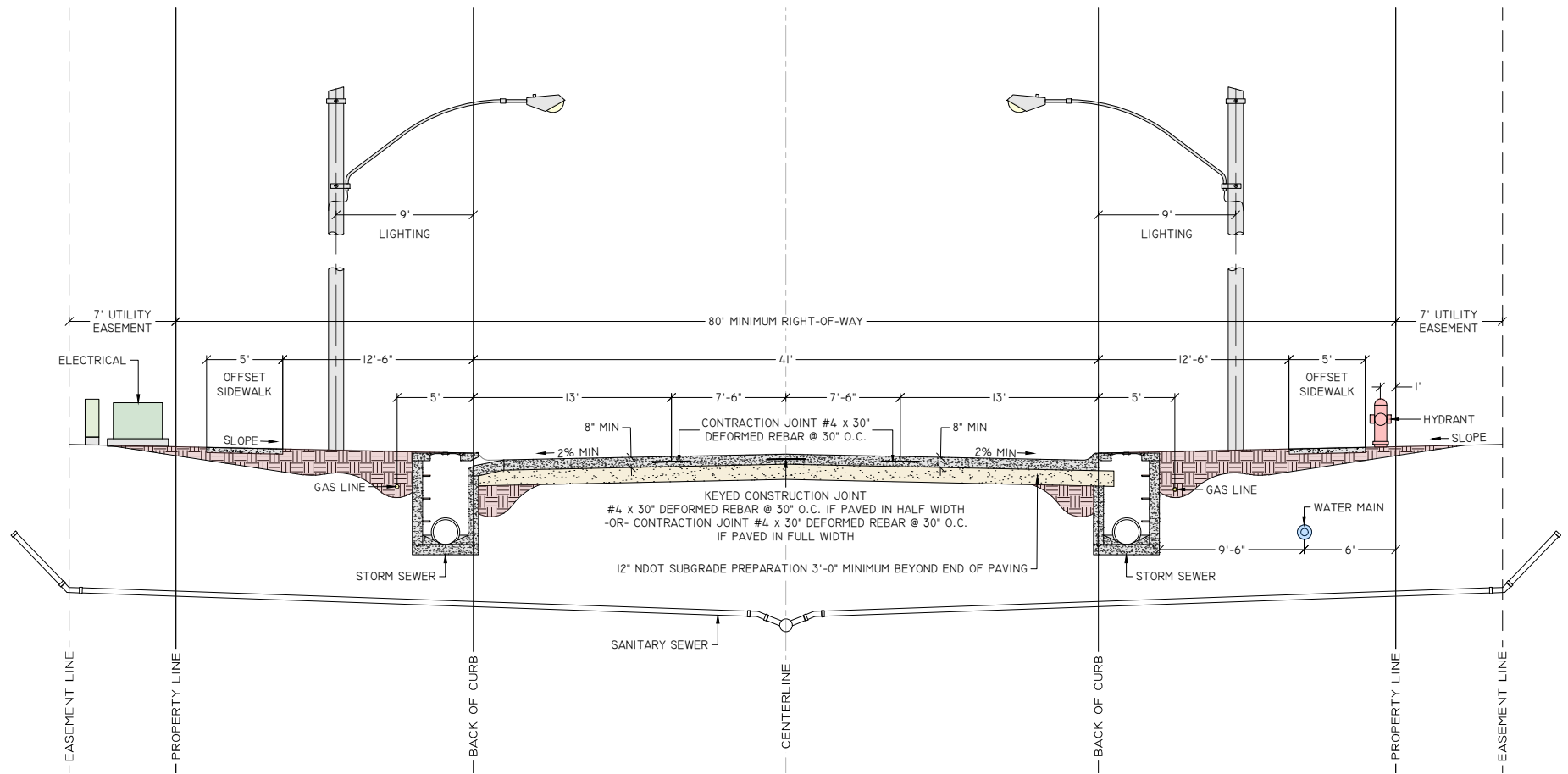
1. STREET WIDTH USE DEFINED IN SUBDIVISION REGULATION MATRIX
2. ALL SUBGRADE & FILL BELOW PAVEMENT SHALL BE TESTED AND MEET GRAND ISLAND CITY STANDARD SPECIFICATIONS FOR DENSITY AND MOISTURE
3. 12'-0" TRANSVERSE JOINTS
4. CENTERLINE GRADE MINIMUM 0.3%
5. EXPANSION JOINTS LOCATED AT END OF INTERSECTION RETURNS MAXIMUM DISTANCE 500 FEET
6. SIDEWALK LOCATION TO BE LOCATED AS DEFINED IN THE SUBDIVISION AGREEMENT
CURBSIDE SIDEWALK ONLY PERMITTED WHERE NEIGHBORHOOD MAILBOXES ARE PROVIDED
STORM SEWER INLET LID TO MATCH SIDEWALK CROSS SLOPE IF CURBSIDE SIDEWALK INSTALLED
7. PARKING MAY BE RESTRICTED
8. THE DEVELOPER SHALL NOT BE RESPONSIBLE FOR PROVIDING IMPROVEMENTS WIDER THAN 37'-0" AT DEVELOPER'S SOLE EXPENSE
9. INFORMATION PROVIDED HEREIN REQUIRES USE OF ADDITIONAL CITY STANDARD PLAN DETAILS FOR PROPER CONSTRUCTION



NOTES:

1. STREET WIDTH USE DEFINED IN SUBDIVISION REGULATION MATRIX
2. PAVEMENT THICKNESS DEPENDENT UPON PAVEMENT ANALYSIS & TO BE APPROVED BY CITY ENGINEER
3. ALL SUBGRADE & FILL BELOW PAVEMENT SHALL BE TESTED AND MEET GRAND ISLAND CITY STANDARD SPECIFICATIONS FOR DENSITY AND MOISTURE
4. 12'-0" TRANSVERSE JOINTS
5. CENTERLINE GRADE MINIMUM 0.3%
6. EXPANSION JOINTS LOCATED AT END OF INTERSECTION RETURNS MAXIMUM DISTANCE 500 FEET
7. STRIPING TO BE APPROVED BY PUBLIC WORKS DEPARTMENT
8. NO PARKING
9. INFORMATION PROVIDED HEREIN REQUIRES USE OF ADDITIONAL CITY STANDARD PLAN DETAILS FOR PROPER CONSTRUCTION

	41' COMMERCIAL STREET STANDARD PAVEMENT CROSS SECTION		PLAN	204
			SHEET	I OF I
	CITY STANDARD PLANS & SPECIFICATIONS GRAND ISLAND, NEBRASKA		DRAWN BY: TJY	DATE: DEC 2013
		REVISED BY: MLS	DATE: JAN 2021	
		APPROVED BY: KJK	DATE: MAR 2021	



NOTES:

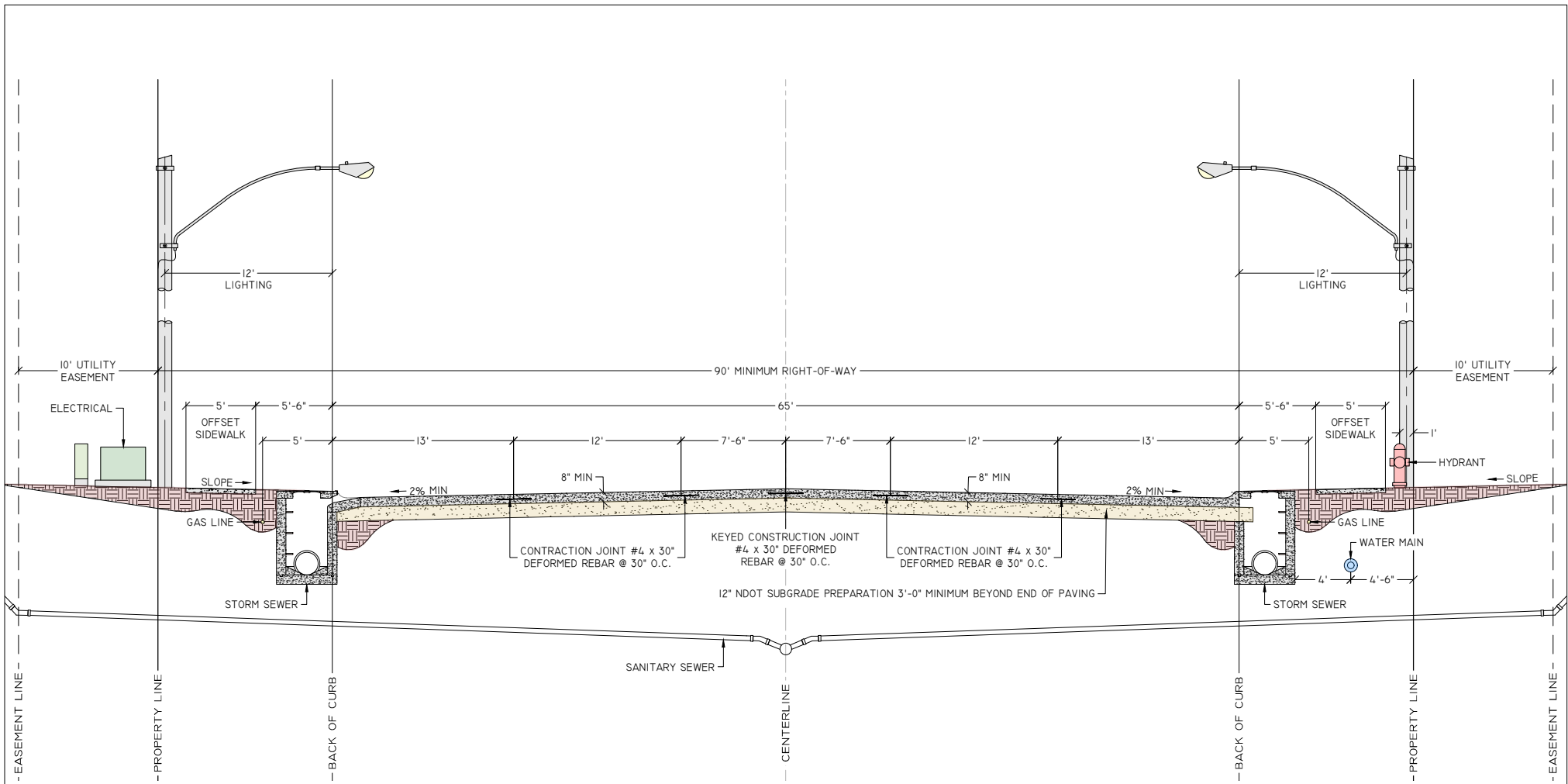
1. STREET WIDTH USE DEFINED IN SUBDIVISION REGULATION MATRIX
2. PAVEMENT THICKNESS DEPENDENT UPON PAVEMENT ANALYSIS & TO BE APPROVED BY CITY ENGINEER
3. ALL SUBGRADE & FILL BELOW PAVEMENT SHALL BE TESTED AND MEET GRAND ISLAND CITY STANDARD SPECIFICATIONS FOR DENSITY AND MOISTURE
4. 12'-0" TRANSVERSE JOINTS
5. CENTERLINE GRADE MINIMUM 0.3%
6. EXPANSION JOINTS LOCATED AT END OF INTERSECTION RETURNS MAXIMUM DISTANCE 500 FEET
7. STRIPING TO BE APPROVED BY PUBLIC WORKS DEPARTMENT
8. NO PARKING
9. INFORMATION PROVIDED HEREIN REQUIRES USE OF ADDITIONAL CITY STANDARD PLAN DETAILS FOR PROPER CONSTRUCTION



41' COMMERCIAL COLLECTOR STANDARD PAVEMENT CROSS SECTION

CITY STANDARD PLANS & SPECIFICATIONS
GRAND ISLAND, NEBRASKA

PLAN	205	
SHEET	I	OF I
DRAWN BY:	TJY	DATE: DEC 2013
REVISED BY:	MLS	DATE: JAN 2021
APPROVED BY:	KJK	DATE: MAR 2021



NOTES:

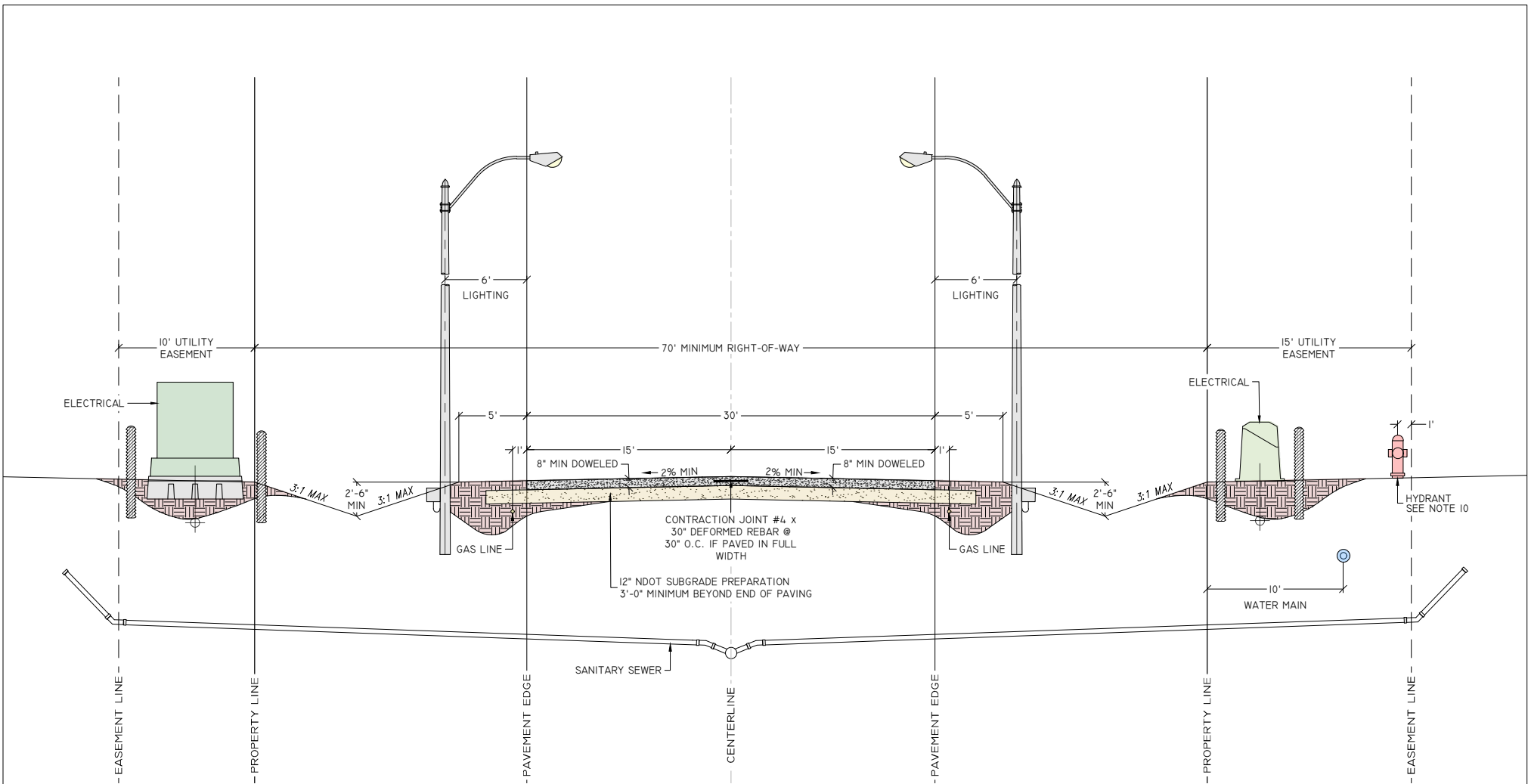
1. STREET WIDTH USE DEFINED IN SUBDIVISION REGULATION MATRIX
2. PAVEMENT THICKNESS DEPENDENT UPON PAVEMENT ANALYSIS & TO BE APPROVED BY CITY ENGINEER
3. ALL SUBGRADE & FILL BELOW PAVEMENT SHALL BE TESTED AND MEET GRAND ISLAND CITY STANDARD SPECIFICATIONS FOR DENSITY AND MOISTURE
4. 15'-0" TRANSVERSE JOINTS
5. CENTERLINE GRADE MINIMUM 0.3%
6. EXPANSION JOINTS LOCATED AT END OF INTERSECTION RETURNS MAXIMUM DISTANCE 500 FEET
7. THE DEVELOPER SHALL NOT BE RESPONSIBLE FOR PROVIDING IMPROVEMENTS WIDER THAN 41'-0" AT DEVELOPER'S SOLE EXPENSE
8. NO PARKING
9. INFORMATION PROVIDED HEREIN REQUIRES USE OF ADDITIONAL CITY STANDARD PLAN DETAILS FOR PROPER CONSTRUCTION



65' ARTERIAL STANDARD PAVEMENT CROSS SECTION

CITY STANDARD PLANS & SPECIFICATIONS
GRAND ISLAND, NEBRASKA

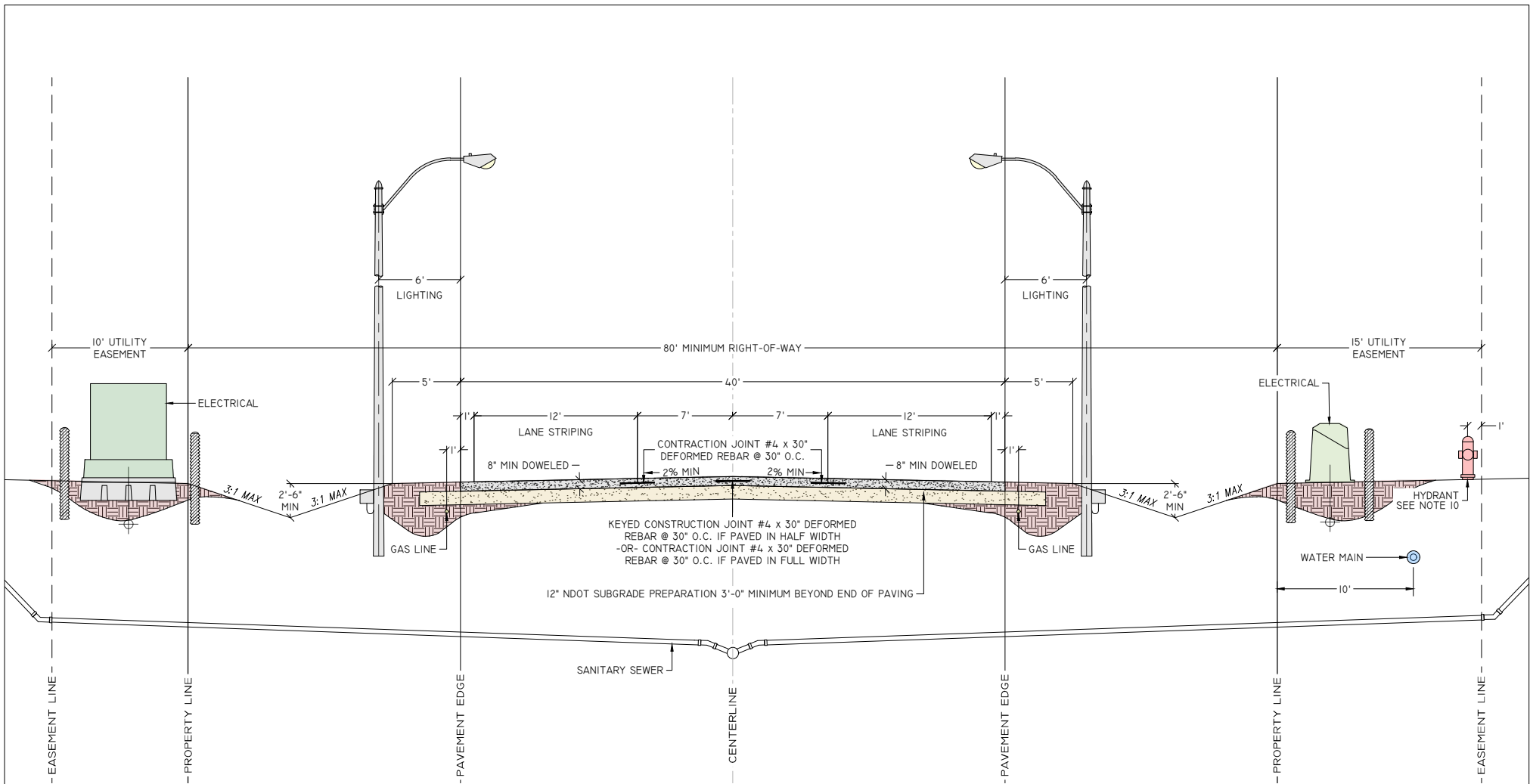
PLAN	206	
SHEET	I	OF I
DRAWN BY:	TJY	DATE: DEC 2013
REVISED BY:	MLS	DATE: JAN 2021
APPROVED BY:	KJK	DATE: MAR 2021



NOTES:

1. STREET WIDTH USE DEFINED IN SUBDIVISION REGULATION MATRIX
2. ALL SUBGRADE & FILL BELOW PAVEMENT SHALL BE TESTED AND MEET GRAND ISLAND CITY STANDARD SPECIFICATIONS FOR DENSITY AND MOISTURE
3. 12'-0" TRANSVERSE JOINTS
4. CENTERLINE GRADE MINIMUM 0.3%
5. EXPANSION JOINTS LOCATED AT END OF INTERSECTION RETURNS MAXIMUM DISTANCE 500 FEET
6. NO CURB, NO GUTTER, NO SIDEWALK, NO PARKING
7. INFORMATION PROVIDED HEREIN REQUIRES USE OF ADDITIONAL CITY STANDARD PLAN DETAILS FOR PROPER CONSTRUCTION

	30' INDUSTRIAL STREET STANDARD PAVEMENT CROSS SECTION		PLAN	207
			SHEET	I OF I
	CITY STANDARD PLANS & SPECIFICATIONS GRAND ISLAND, NEBRASKA		DRAWN BY: T J Y	DATE: DEC 2013
		REVISED BY: M L S	DATE: JAN 2021	
		APPROVED BY: K J K	DATE: MAR 2021	



NOTES:

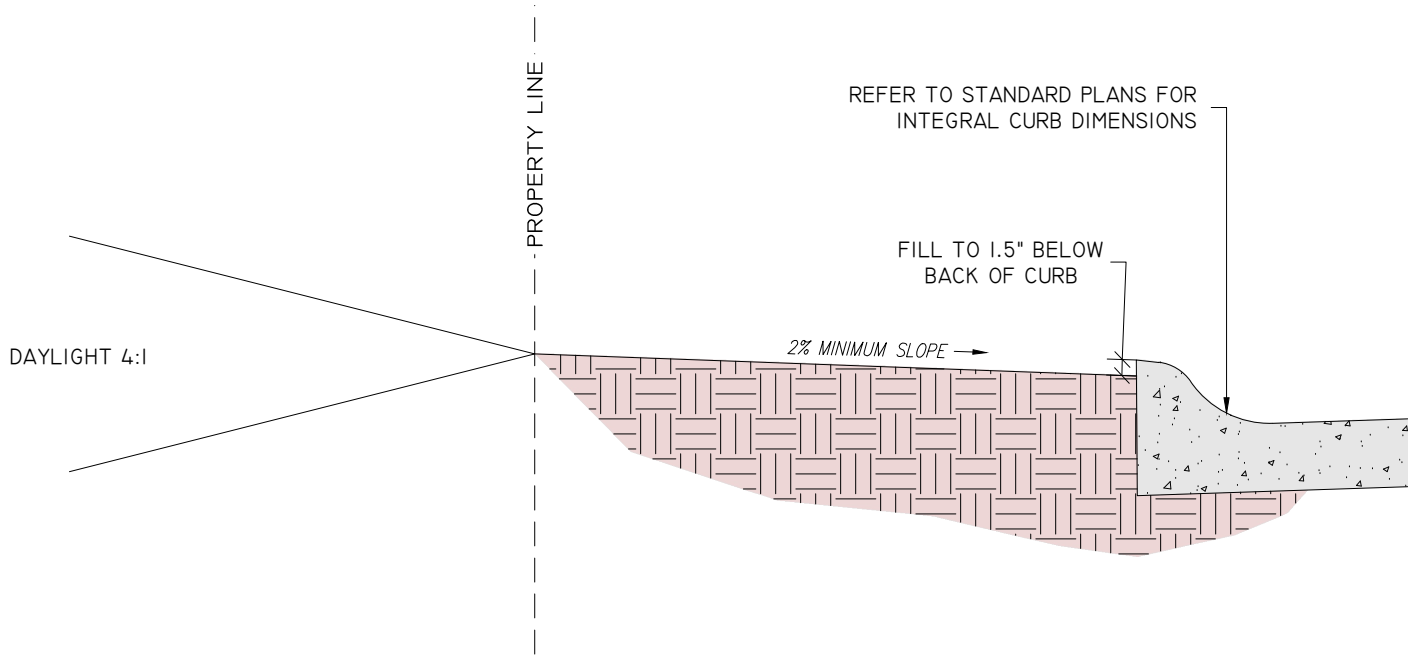
1. STREET WIDTH USE DEFINED IN SUBDIVISION REGULATION MATRIX
2. ALL SUBGRADE & FILL BELOW PAVEMENT SHALL BE TESTED AND MEET GRAND ISLAND CITY STANDARD SPECIFICATIONS FOR DENSITY AND MOISTURE
3. 12'-0" TRANSVERSE JOINTS
4. CENTERLINE GRADE MINIMUM 0.3%
5. EXPANSION JOINTS LOCATED AT END OF INTERSECTION RETURNS MAXIMUM DISTANCE 500 FEET
6. NO CURB, NO GUTTER, NO SIDEWALK, NO PARKING
7. INFORMATION PROVIDED HEREIN REQUIRES USE OF ADDITIONAL CITY STANDARD PLAN DETAILS FOR PROPER CONSTRUCTION



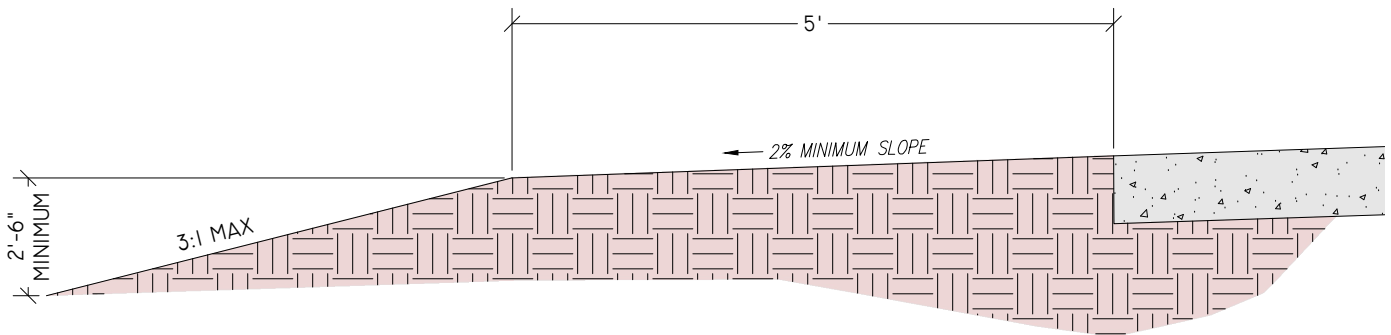
40' INDUSTRIAL COLLECTOR STANDARD PAVEMENT CROSS SECTION

CITY STANDARD PLANS & SPECIFICATIONS
GRAND ISLAND, NEBRASKA

PLAN	208	
SHEET	I	OF I
DRAWN BY:	TJY	DATE: DEC 2013
REVISED BY:	MLS	DATE: JAN 2021
APPROVED BY:	KJK	DATE: MAR 2021



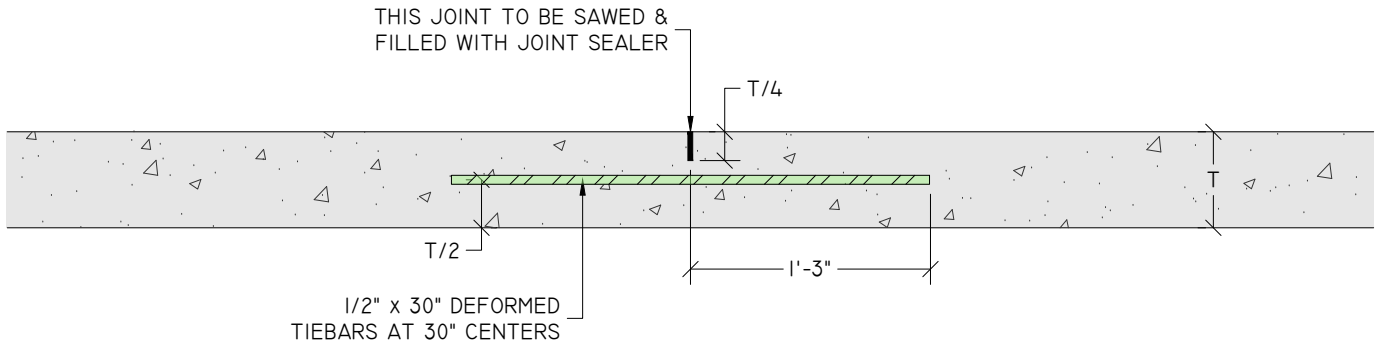
TYPICAL BACK OF CURB EARTH FINISH



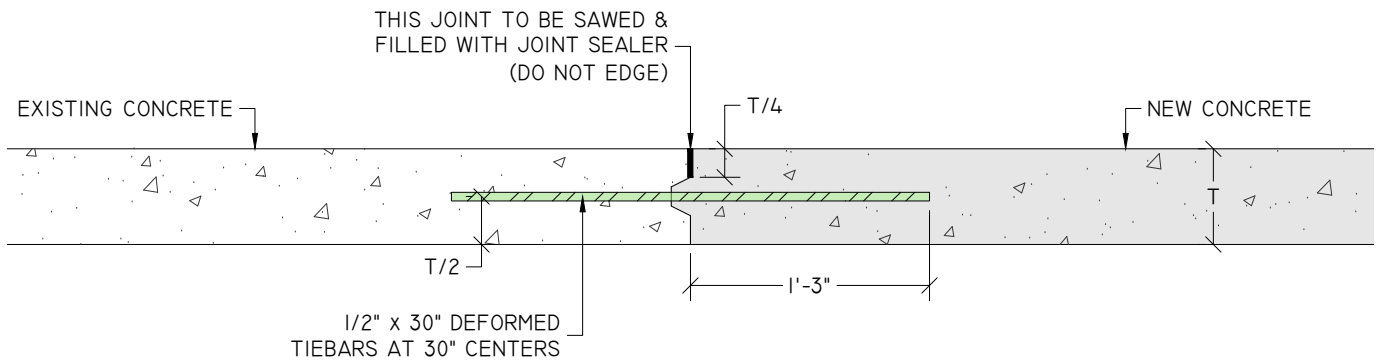
INDUSTRIAL PAVEMENT (NO CURB) EARTH FINISH

NOTES:

1. PROPERTY LINE SHOWN TO BE RIGHT-OF-WAY OR EASEMENT - WHICHEVER IS FURTHEST FROM PAVEMENT
2. WHEN THE TERRACE HAS A GOOD TURF, DRESS THE EDGES ALONG THE CURB, FILLING THE VOID IN BACK OF CURB WITH GOOD SOIL
3. TOP 3" OF EARTH FILL OUTSIDE OF PAVEMENT SHALL BE SOIL SUITABLE FOR TURF SEEDING
4. SOIL CONTAINING BROKEN CONCRETE OR MORE THAN 10% GRAVEL MIXED WILL NOT BE ACCEPTABLE



LONGITUDINAL CONTRACTION JOINT WHEN PAVED IN FULL WIDTH



KEYED CONSTRUCTION JOINT

WHEN PAVED IN HALF WIDTH AND/OR
ADJACENT JOINT IS PLACED FURTHER THAN 5'-0"

NOTES:

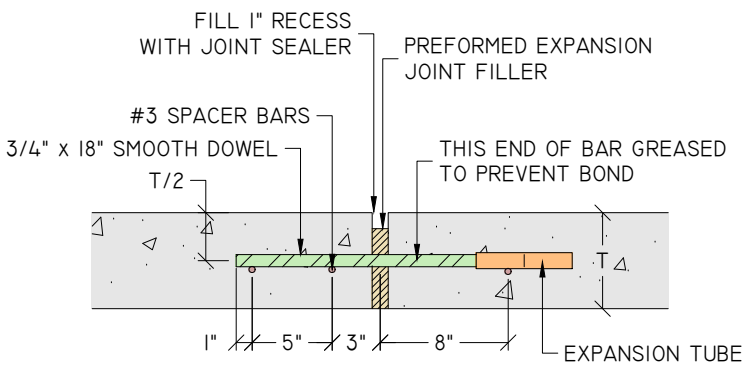
- I. CONSTRUCTION OF THESE JOINTS & SAWING SHALL BE INCIDENTAL TO PAVING



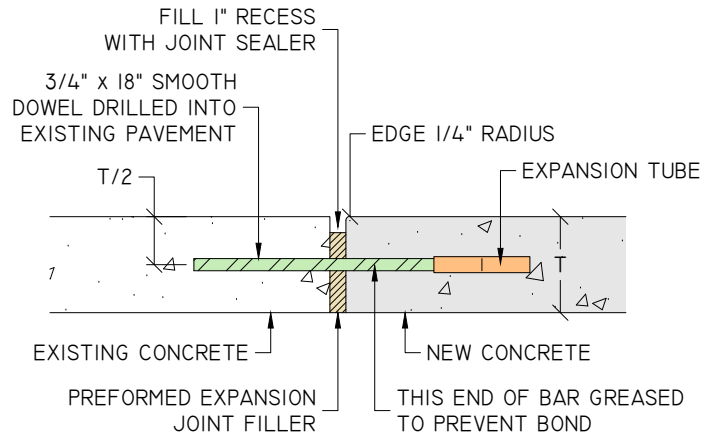
LONGITUDINAL JOINT DETAILS

CITY STANDARD PLANS & SPECIFICATIONS
GRAND ISLAND, NEBRASKA

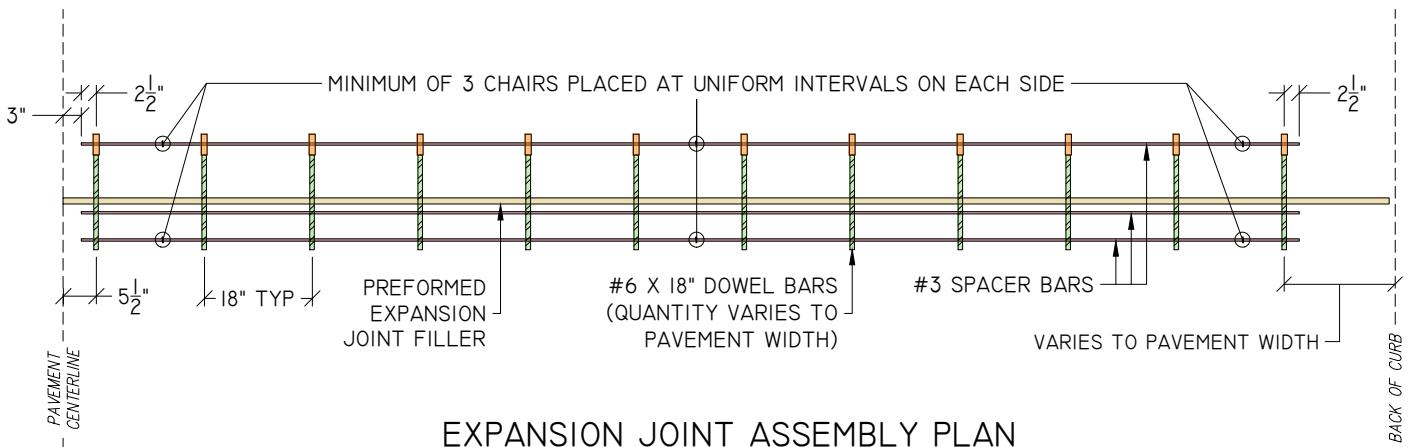
PLAN	210	
SHEET	1	OF 1
DRAWN BY:	LDC	DATE: SEP 1970
REVISED BY:	MLS	DATE: JAN 2021
APPROVED BY:	KJK	DATE: APR 2021



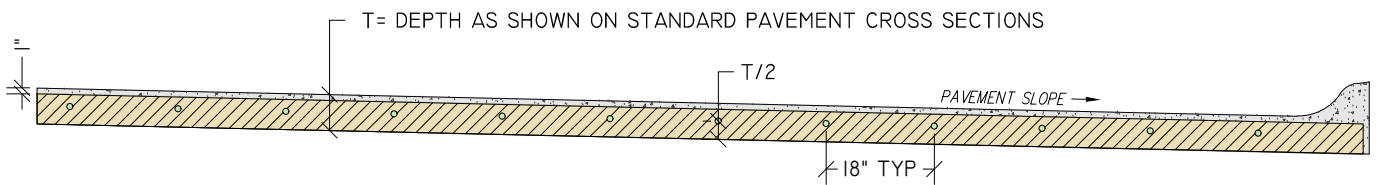
EXPANSION JOINT



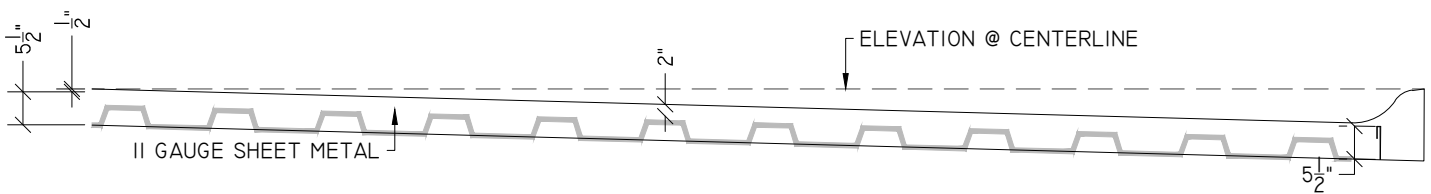
EXPANSION JOINT



EXPANSION JOINT ASSEMBLY PLAN

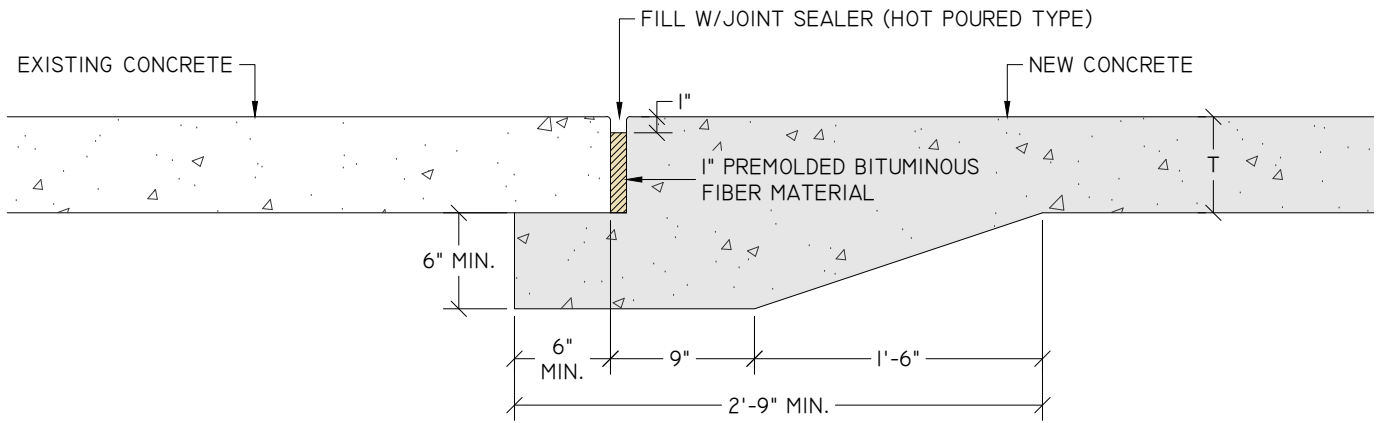


DETAIL FOR CUTTING PREFORMED EXPANSION JOINT FILLER

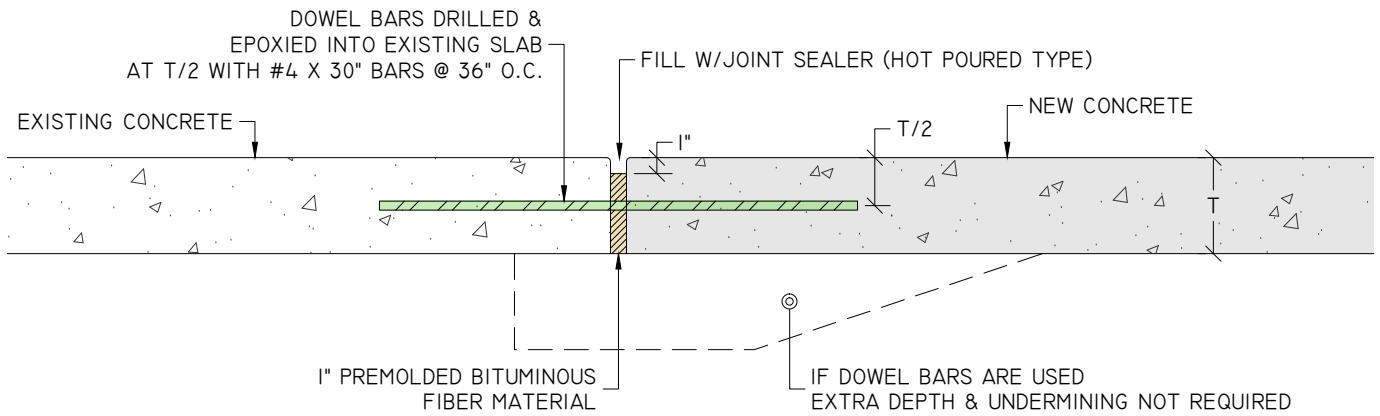


METAL EXPANSION JOINT HOLDER

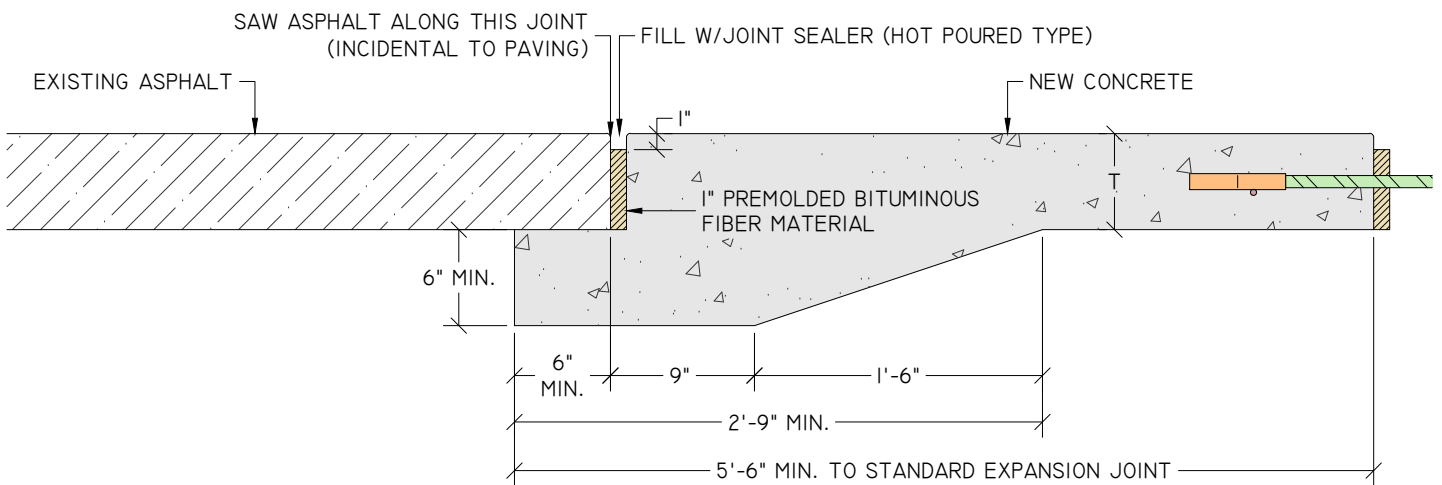
- NOTES:
- CONSTRUCTION OF THIS JOINT & SAWING SHALL BE INCIDENTAL TO PAVING



UNDERMINED



DOWELED



NEW CONCRETE TO ASPHALT

NOTES:

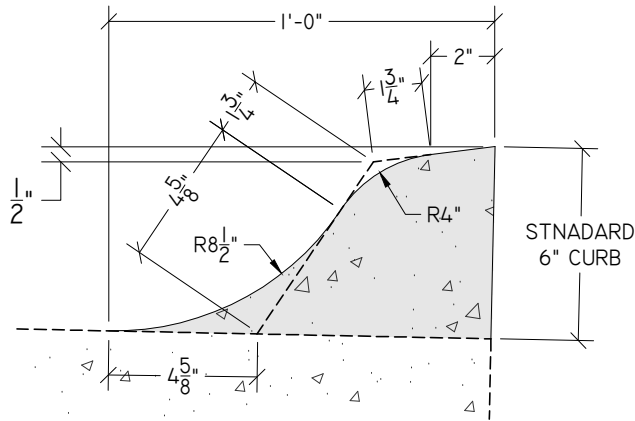
I. CONSTRUCTION OF THIS JOINT, SAWING & EXPANSION JOINTS SHALL BE INCIDENTAL TO PAVING



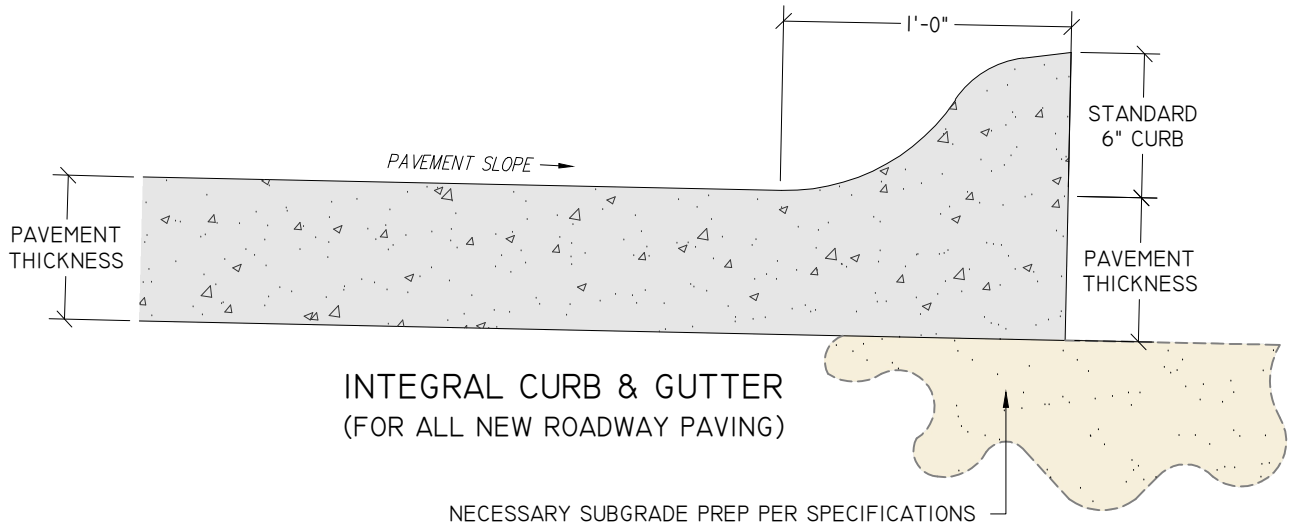
TRANSVERSE CONSTRUCTION JOINT DETAILS

CITY STANDARD PLANS & SPECIFICATIONS
GRAND ISLAND, NEBRASKA

PLAN	212	
SHEET	1	OF 1
DRAWN BY:	JVN	DATE: DEC 1962
REVISED BY:	MLS	DATE: JAN 2021
APPROVED BY:	KJK	DATE: APR 2021

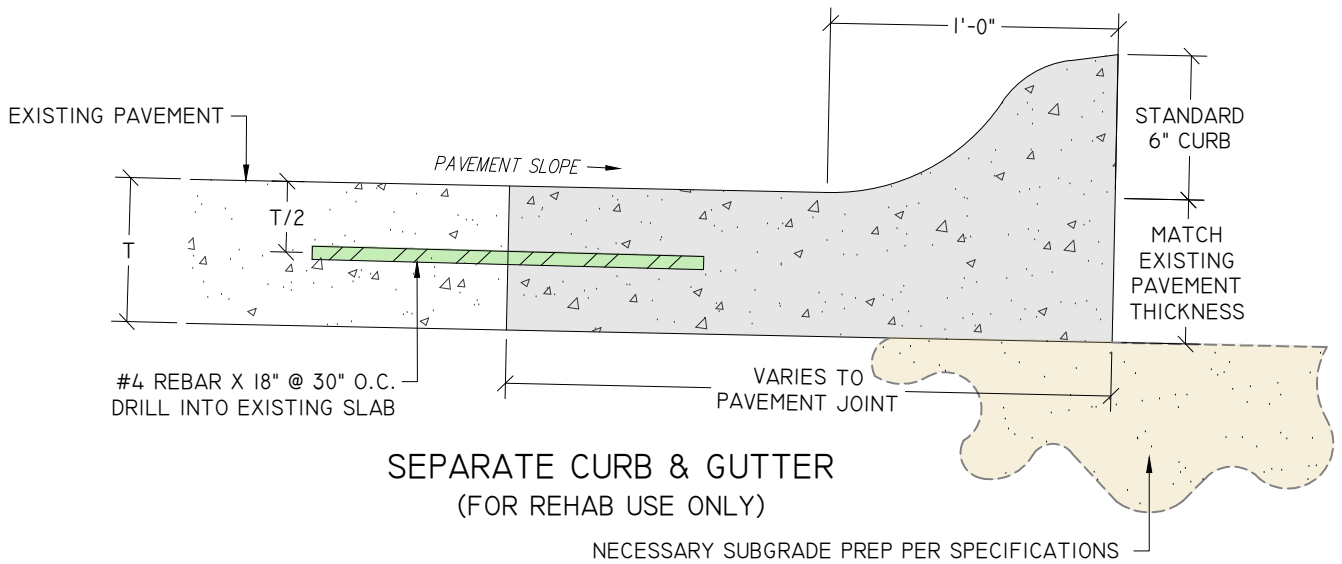


STANDARD 6" CURB DIMENSIONS
CURB AREA = 0.239 SF



INTEGRAL CURB & GUTTER
(FOR ALL NEW ROADWAY PAVING)

NECESSARY SUBGRADE PREP PER SPECIFICATIONS

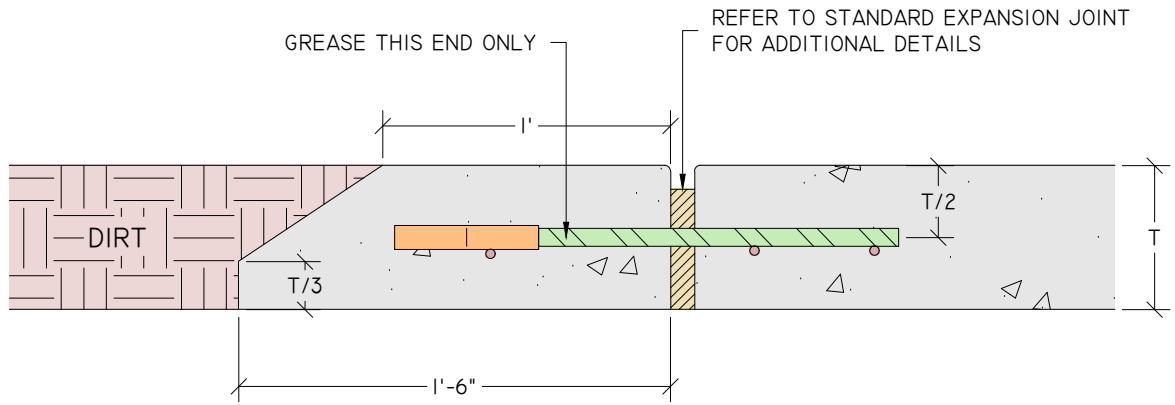


SEPARATE CURB & GUTTER
(FOR REHAB USE ONLY)

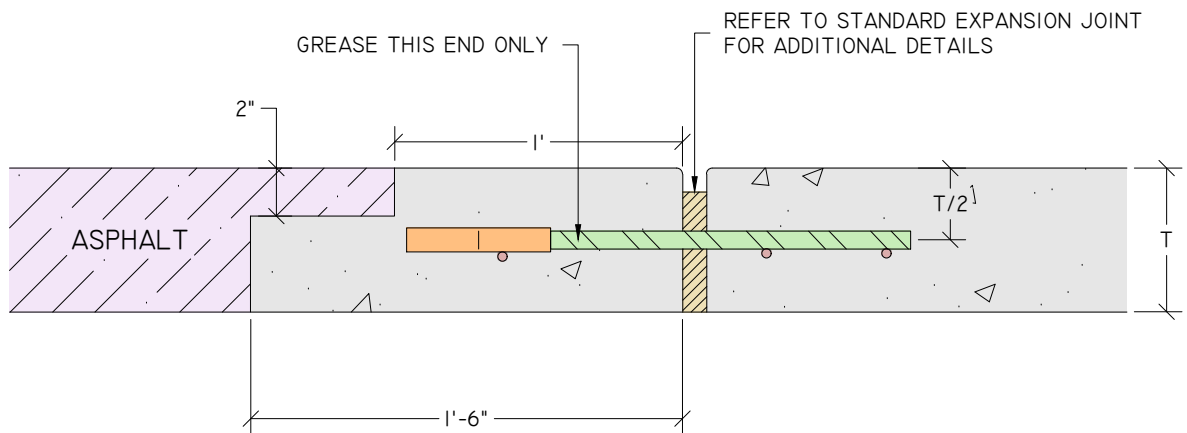
NECESSARY SUBGRADE PREP PER SPECIFICATIONS

NOTES:

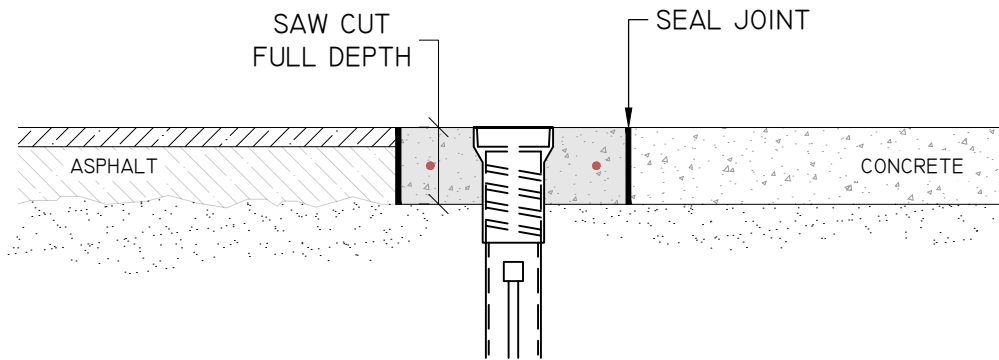
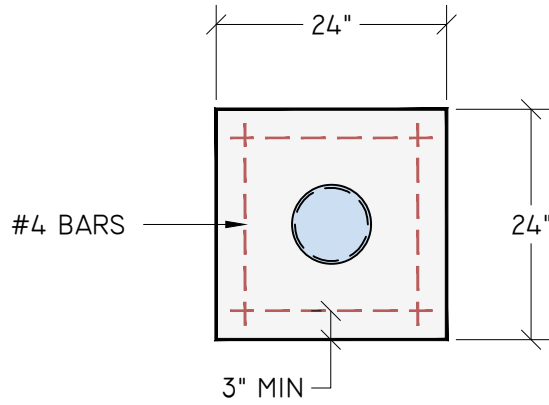
1. DUE TO THE FLAT GRADE IN THE CITY OF GRAND ISLAND, NEBRASKA EXTREME CARE SHALL BE USED IN FINISH WORK TO ELIMINATE LOW SPOTS AND POCKETS

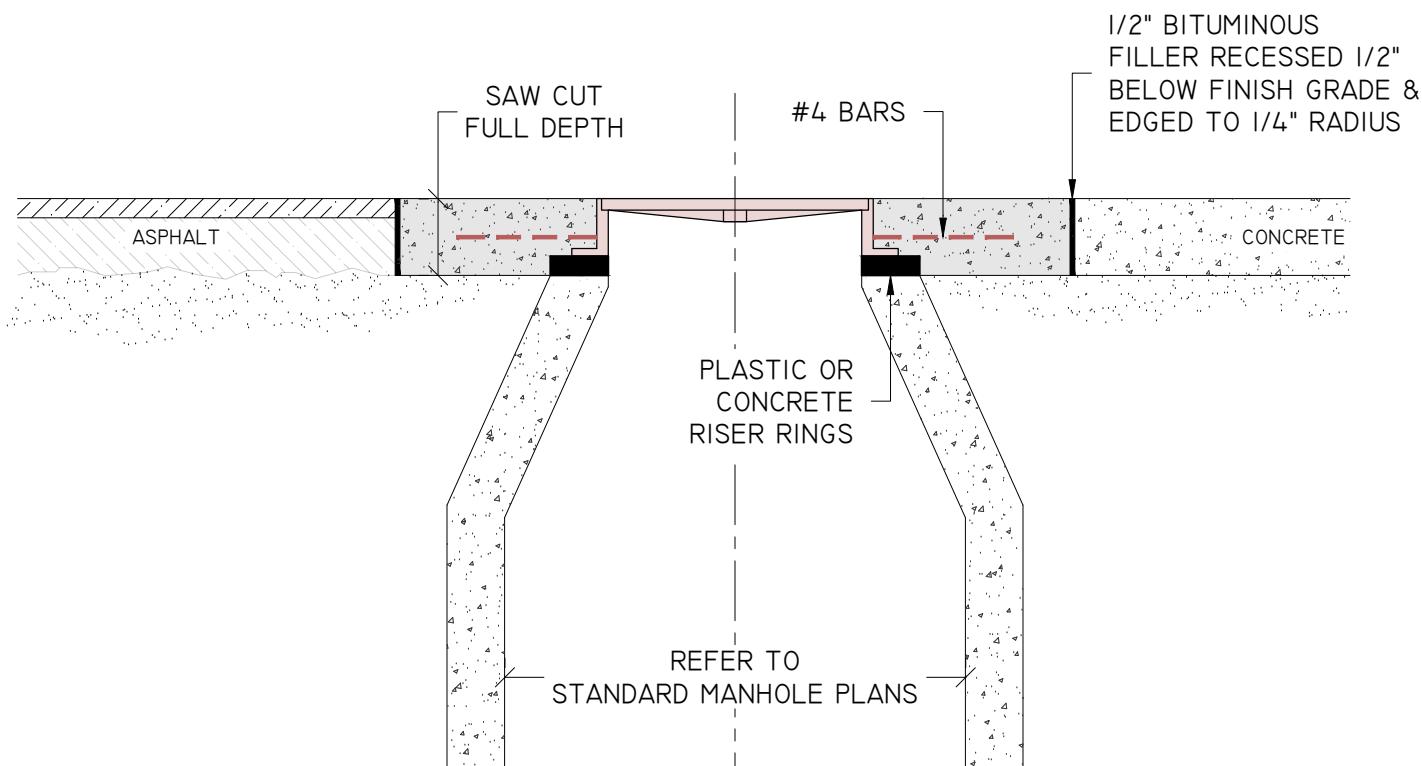
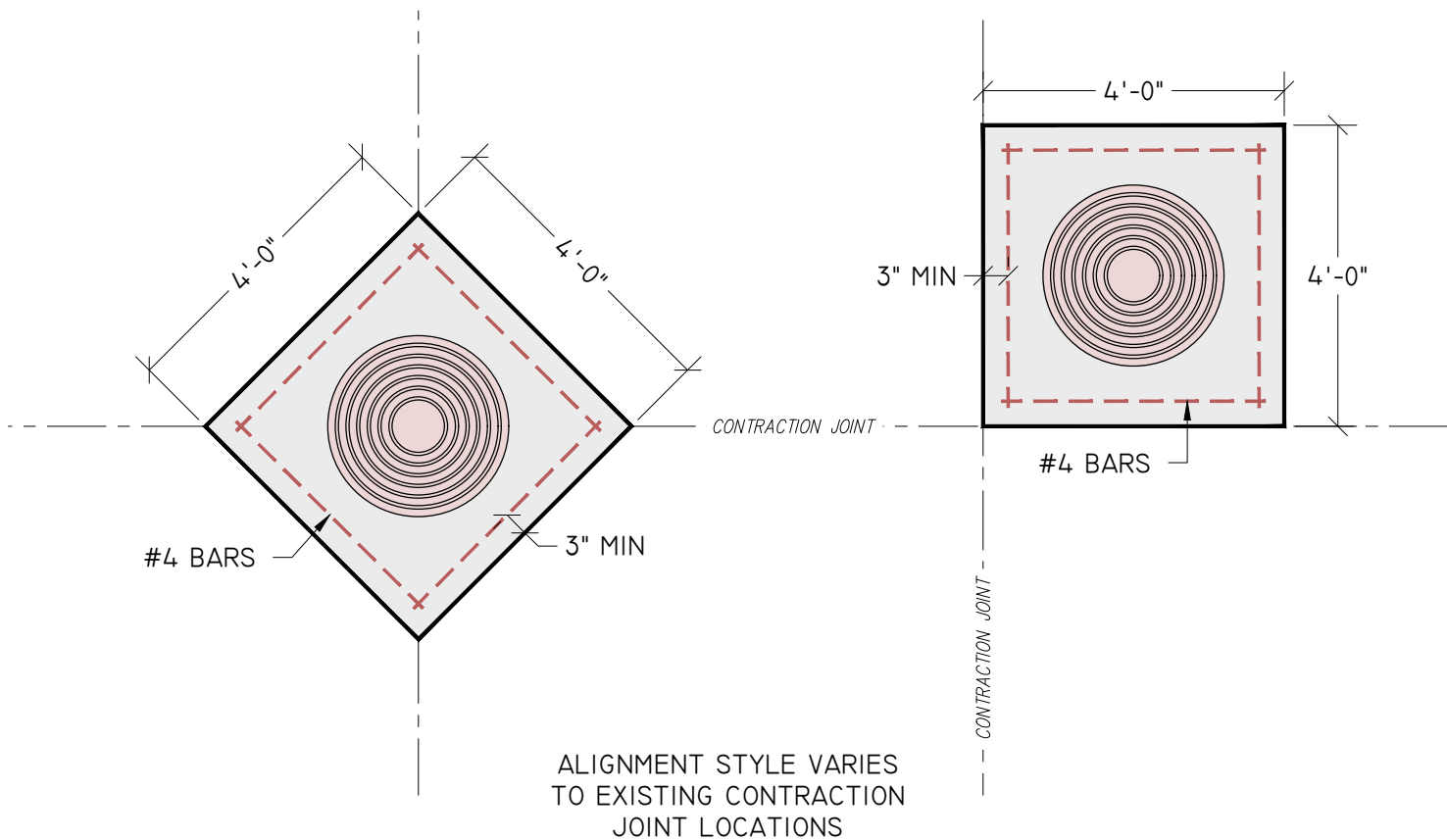


STANDARD CONCRETE HEADER FOR DIRT RETURN

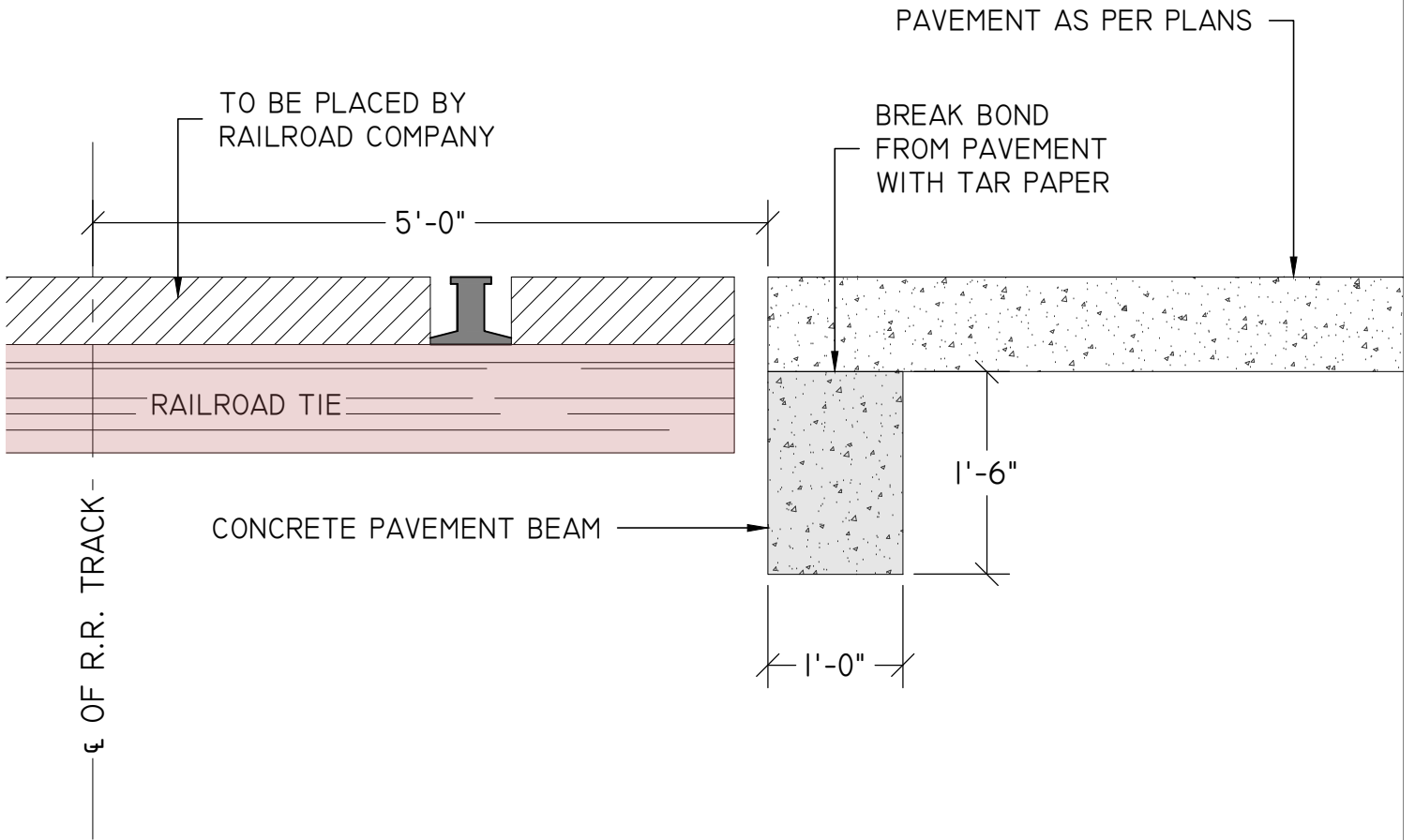


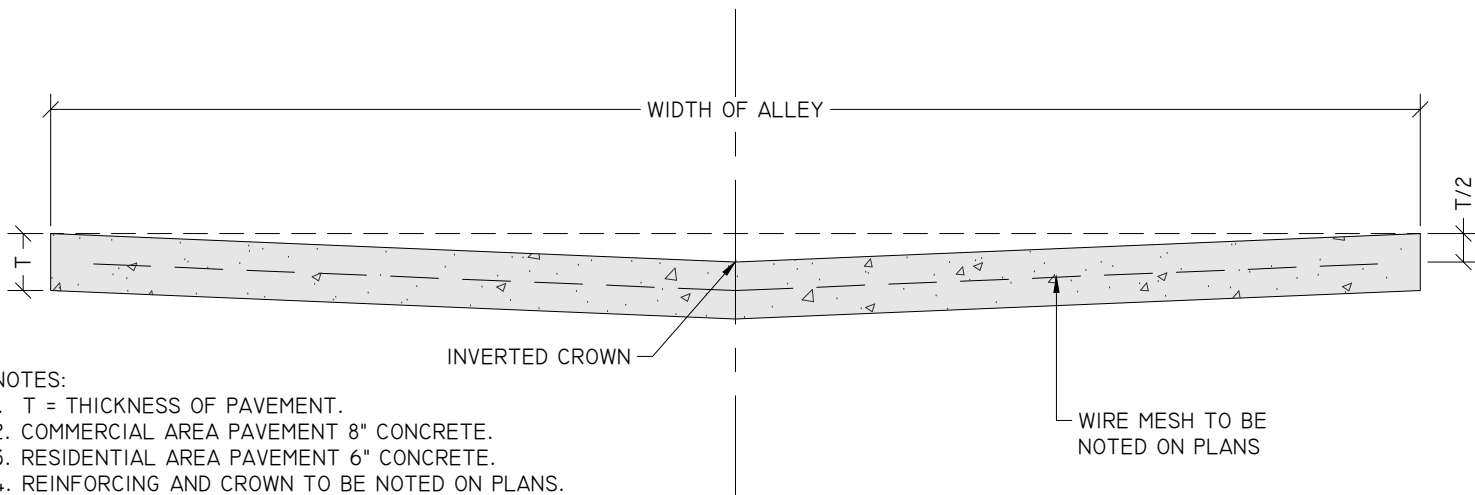
STANDARD CONCRETE HEADER FOR ASPHALT RETURN





- NOTES:
- ALL MANHOLES ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE PROPER GRADE BY REMOVING THE CASTINGS & ADJUSTING THE TOPS OF THE EXISTING MANHOLES.

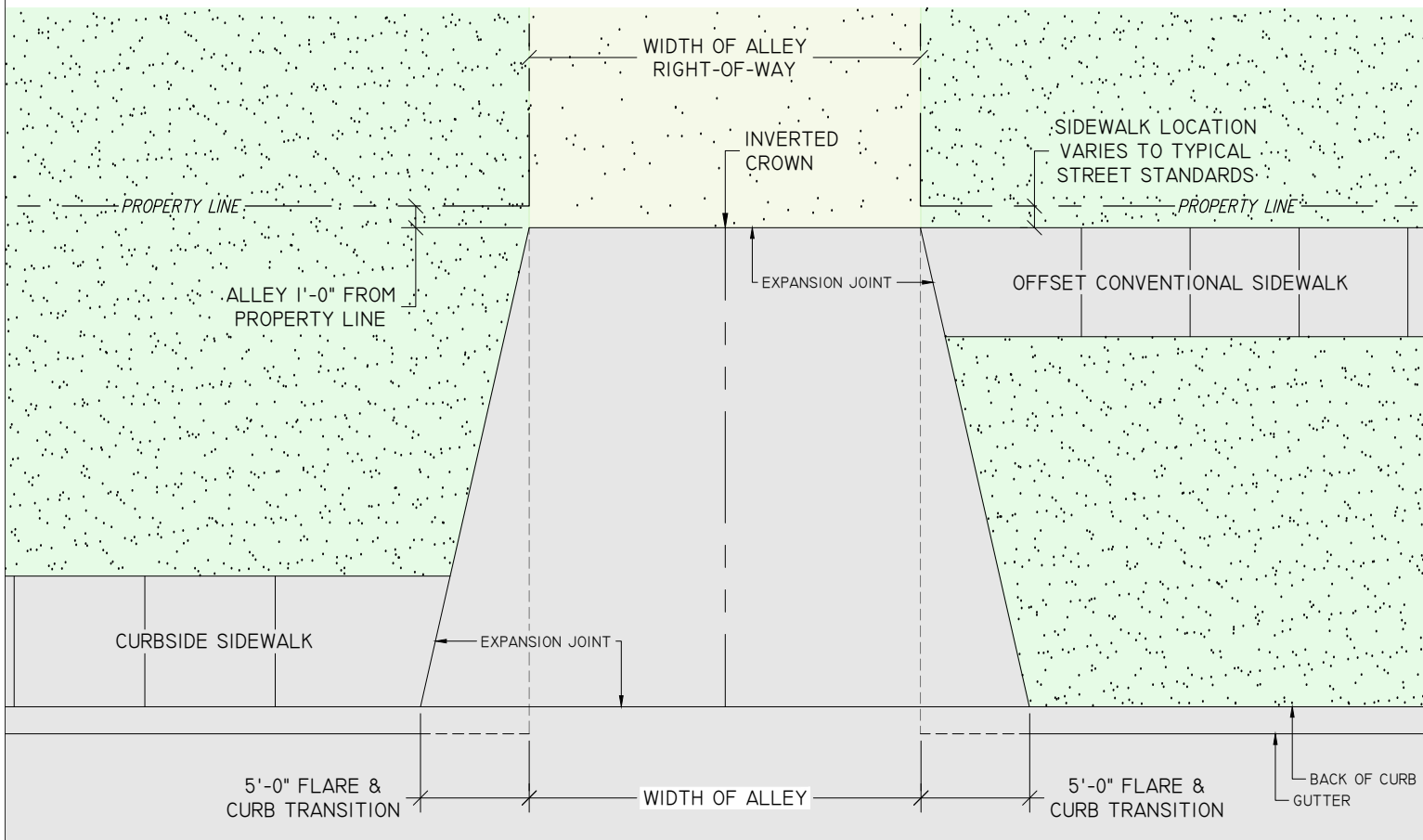




NOTES:

1. T = THICKNESS OF PAVEMENT.
2. COMMERCIAL AREA PAVEMENT 8" CONCRETE.
3. RESIDENTIAL AREA PAVEMENT 6" CONCRETE.
4. REINFORCING AND CROWN TO BE NOTED ON PLANS.
5. 16' ALLEY PAVEMENT 4" OR 0.33' INVERTED CROWN.
6. 12' ALLEY PAVEMENT 3" OR 0.25' INVERTED CROWN.

TYPICAL ALLEY SECTION



NOTES:

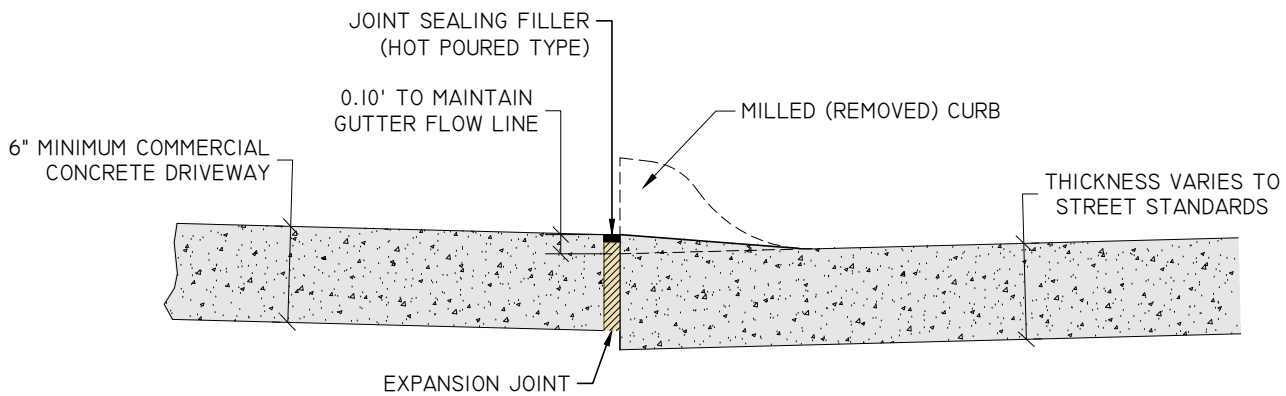
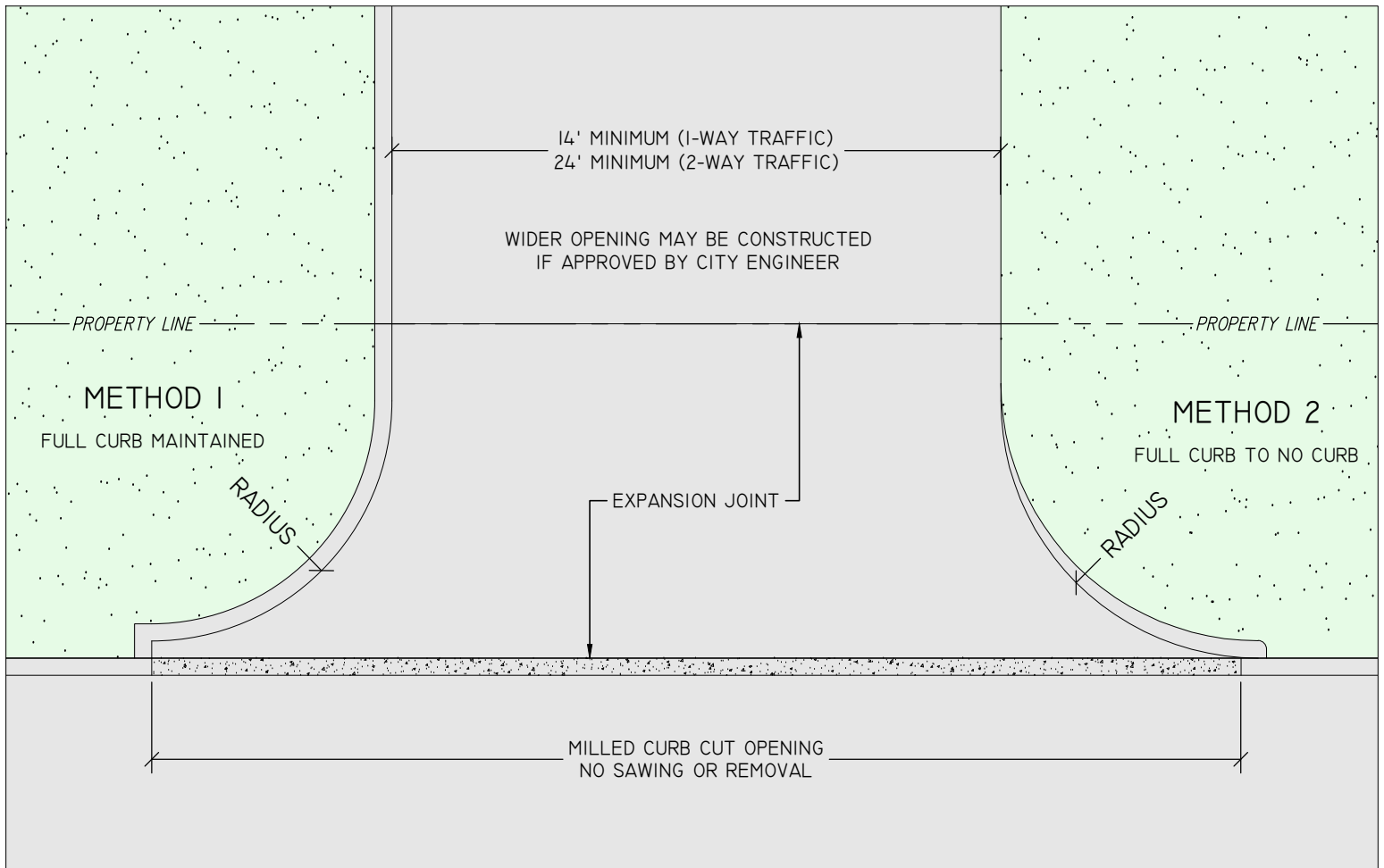
1. ALL EXPANSION JOINTS SHALL BE INCIDENTAL TO PAVING.
2. PROPERTY CORNERS MUST BE PROTECTED.
3. SIDEWALK LOCATION DETERMINED BY SUBDIVISION AGREEMENT IF APPROVED AFTER 03/25/2014 - PRIOR WALKS TO MATCH EXISTING. REFER TO CORRESPONDING STANDARD PLANS FOR PROPER CONSTRUCTION.



TYPICAL ALLEY SECTION & STANDARD RETURN

CITY STANDARD PLANS & SPECIFICATIONS
GRAND ISLAND, NEBRASKA

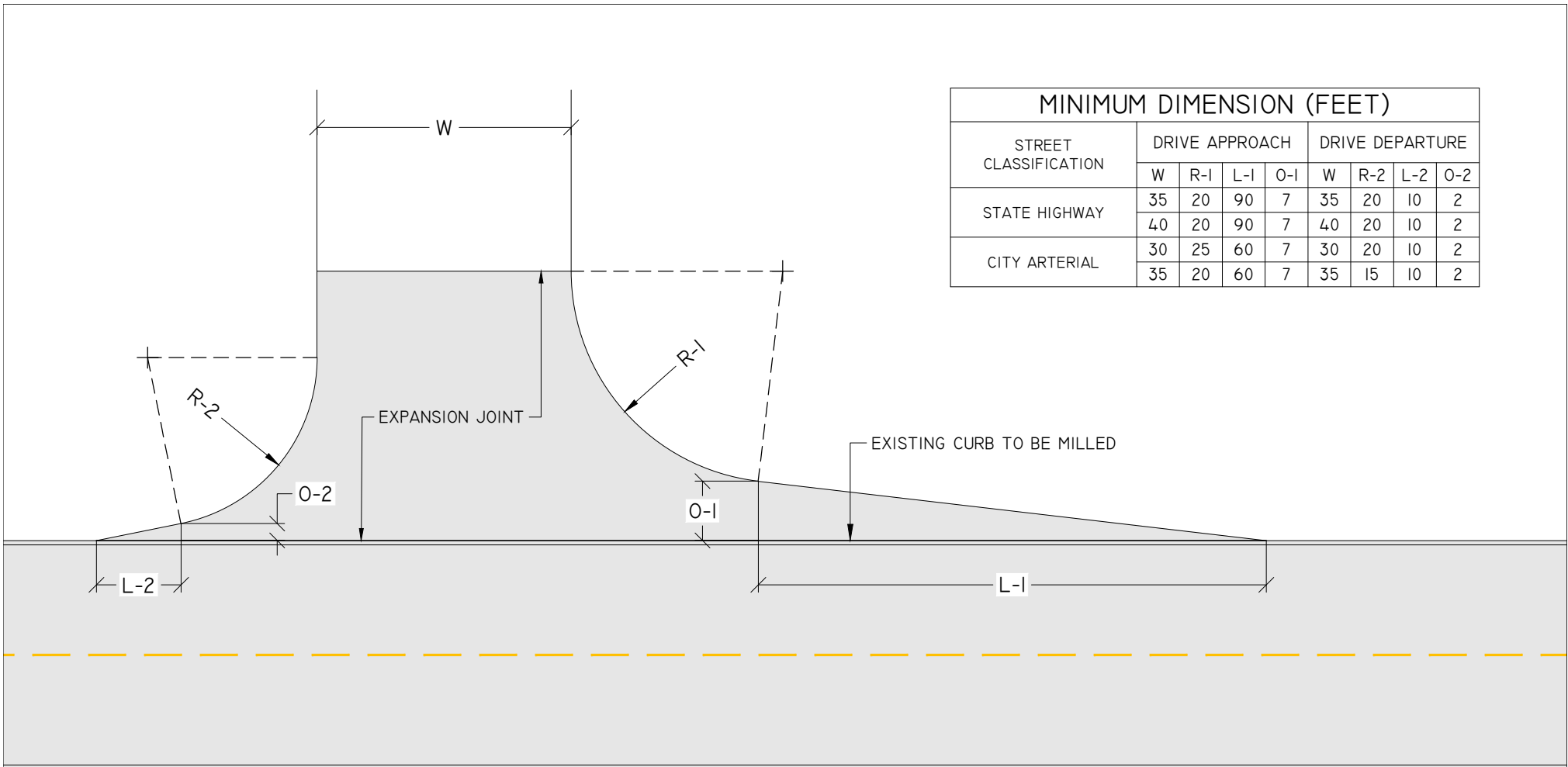
PLAN	218	
SHEET	1	OF 1
DRAWN BY:	KGN	DATE: DEC 1966
REVISED BY:	MLS	DATE: MAY 2021
APPROVED BY:	KJK	DATE: MAY 2021



NOTES:

1. 15' MINIMUM RADIUS ON STANDARD COMMERCIAL OPENINGS & 50' MINIMUM RADIUS ON COMMERCIAL WITH TRUCK TRAFFIC DELIVERIES
2. WIDER OPENINGS AND/OR SMALLER RADII MAY BE USED ONLY WHEN APPROVED BY CITY ENGINEER PRIOR TO CONSTRUCTION
3. IF THERE IS LESS THAN 15' BETWEEN BACK OF CURB & PROPERTY LINE, APPROACH SHALL EXTEND ONTO PRIVATE PROPERTY
4. PORTLAND CEMENT CONCRETE TO BE 47B MODIFIED WITH MINIMUM 6" OF THICKNESS
5. CURBS CAN BE TAPERED FROM FULL CURB TO NO CURB IN THE RADIUS LENGTH OR BE MAINTAINED AS FULL CURB WHICHEVER FITS THE PRIVATE PROPERTY DESIGN

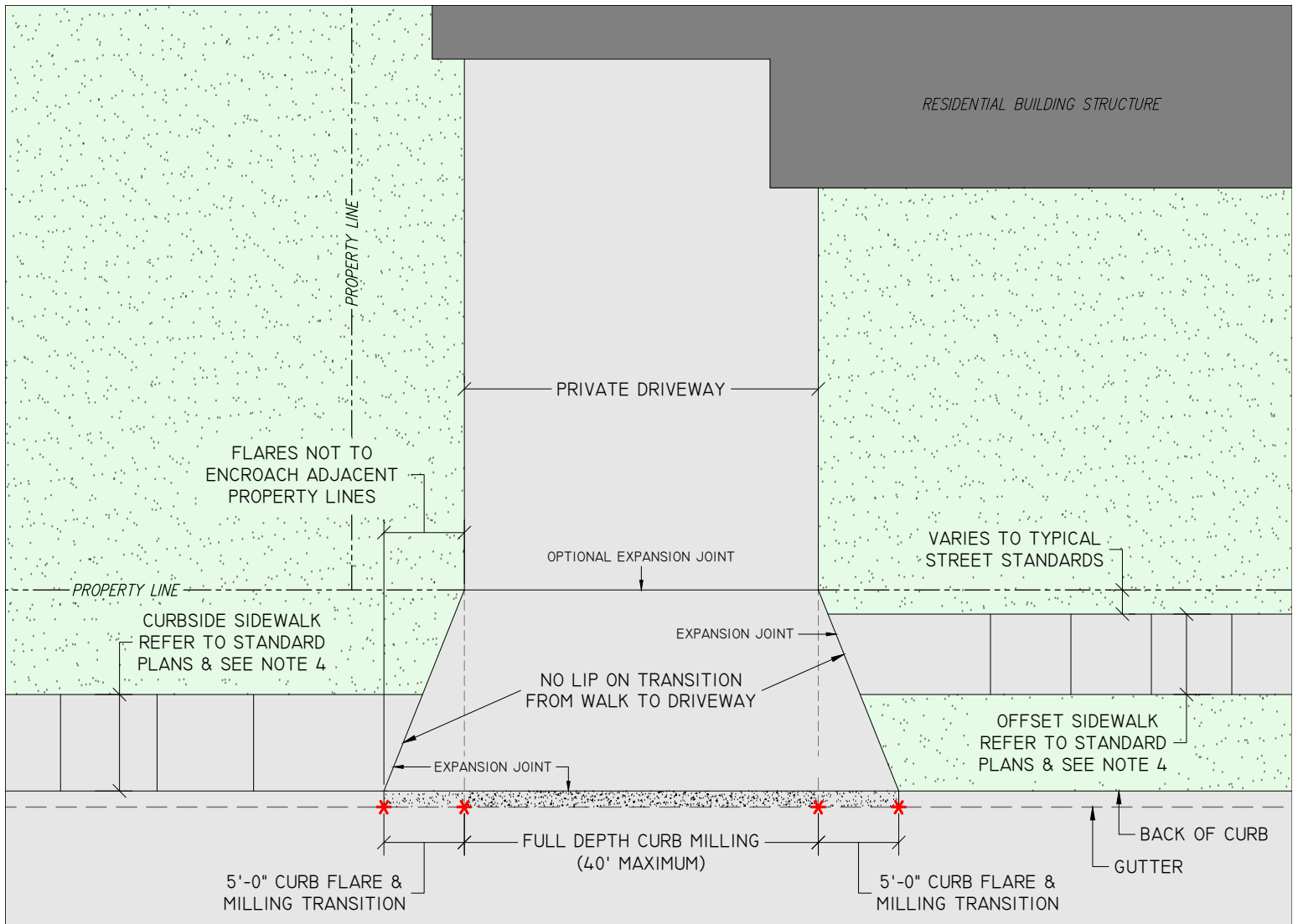
	STANDARD COMMERCIAL DRIVEWAY	PLAN	219
		SHEET	1 OF 1
	CITY STANDARD PLANS & SPECIFICATIONS GRAND ISLAND, NEBRASKA	DRAWN BY: LDC DATE: FEB 1989 REVISED BY: MLS DATE: MAY 2021 APPROVED BY: KJK DATE: MAY 2021	



MINIMUM DIMENSION (FEET)								
STREET CLASSIFICATION	DRIVE APPROACH				DRIVE DEPARTURE			
	W	R-1	L-1	O-1	W	R-2	L-2	O-2
STATE HIGHWAY	35	20	90	7	35	20	10	2
	40	20	90	7	40	20	10	2
CITY ARTERIAL	30	25	60	7	30	20	10	2
	35	20	60	7	35	15	10	2

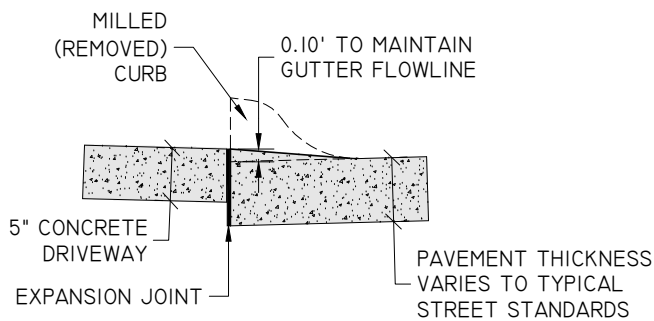
NOTES:

1. DRIVE APPROACH DATA MAY BE USED FOR DRIVE DEPARTURE TO MAKE IMPROVEMENTS SYMMETRICAL IF DESIRED
2. PORTLAND CEMENT CONCRETE TO BE 47B MODIFIED WITH 6" MINIMUM THICKNESS
3. CURB CAN BE TAPERED FROM FULL CURB TO NO CURB IN THE RADIUS LENGTH OR BE MAINTAINED AS FULL CURB WHICHEVER FITS THE DESIGN ON PRIVATE PROPERTY

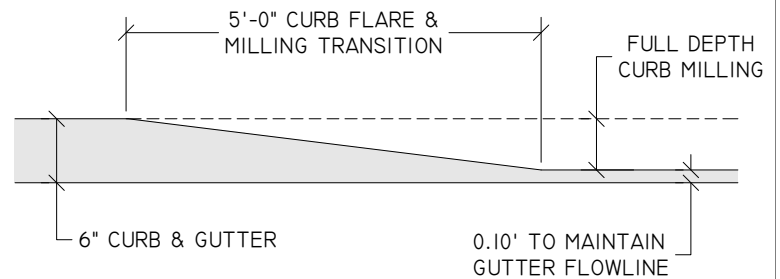


← CURBSIDE SIDEWALK DETAIL | OFFSET SIDEWALK DETAIL →

CURB OPENING PLAN VIEW



CURB OPENING SECTION VIEW

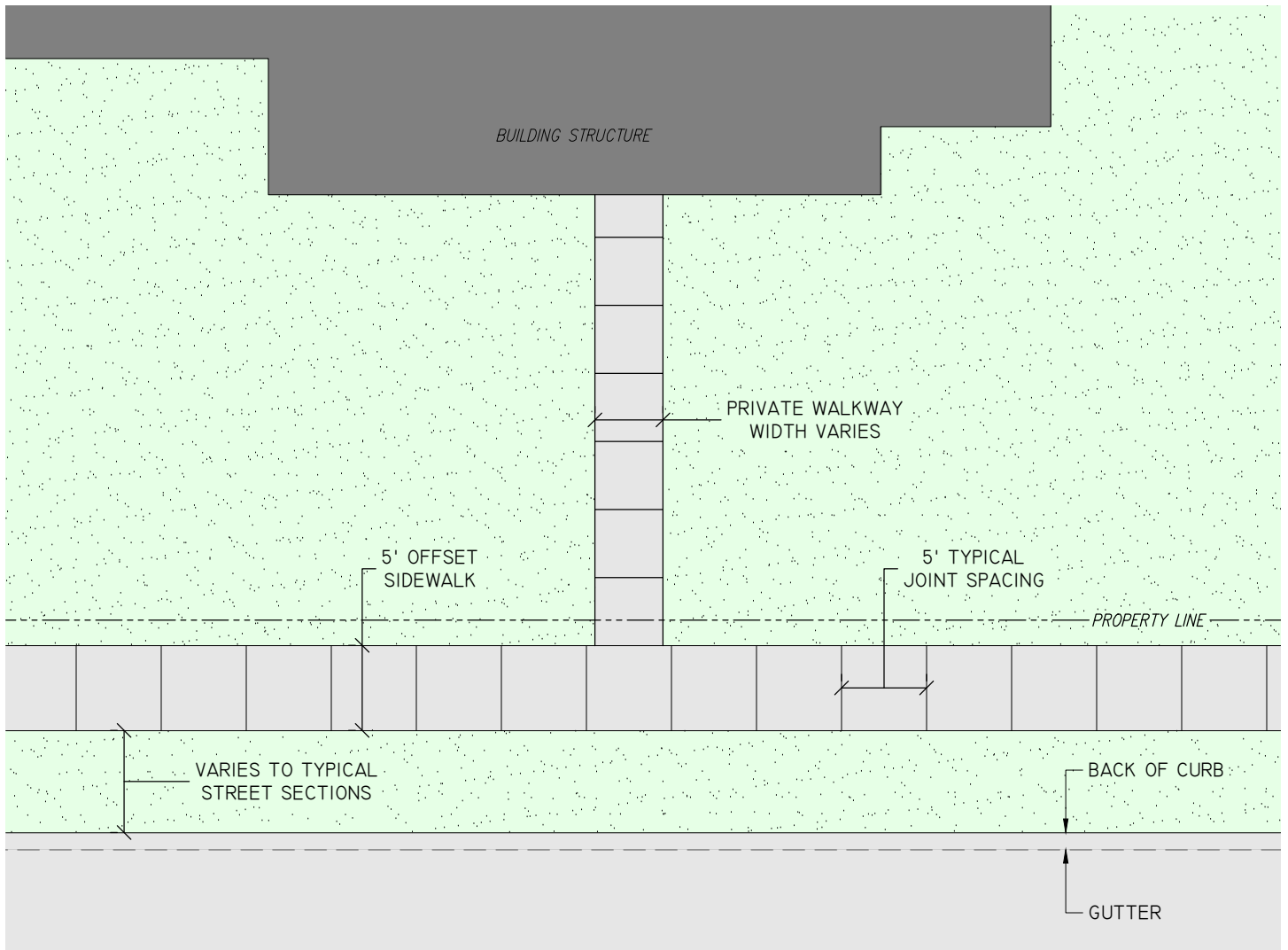


CURB OPENING PROFILE VIEW

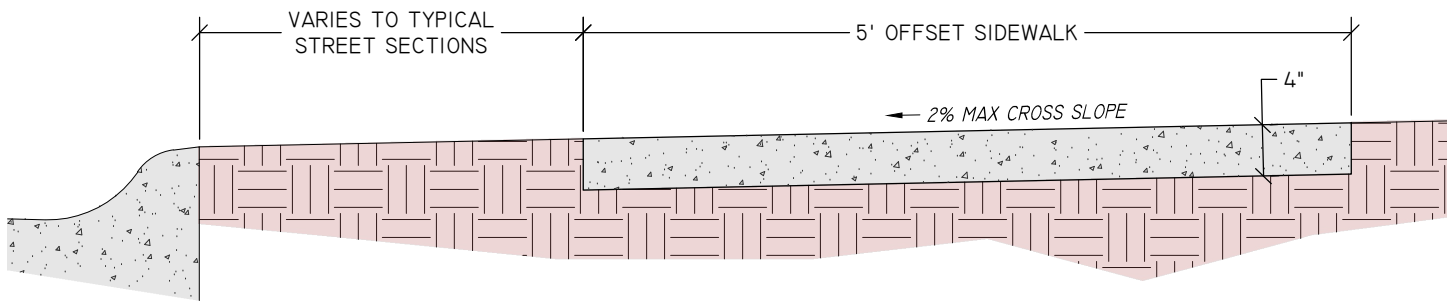
NOTES:

1. ALL DRIVEWAY OPENINGS SHALL HAVE CURB SAWED OR MILLED - NO REMOVAL OF GUTTER
2. FULL DEPTH CURB MILLING SHALL NOT EXCEED 40'
3. ***FULL DEPTH OPENING & FLARE TRANSITIONS TO BE MARKED BY PROPERTY OWNER BEFORE CURB OPENING***
4. SIDEWALK LOCATION DETERMINED BY SUBDIVISION AGREEMENT IF APPROVED AFTER 03/25/2014 - PRIOR WALKS TO MATCH EXISTING
5. ALL SAWING AND EXPANSION JOINTS SHALL BE INCIDENTAL TO DRIVEWAY CONSTRUCTION
6. PORTLAND CEMENT CONCRETE TO BE 47B MODIFIED

PLAN	221	
SHEET	1	OF 1
DRAWN BY:	KGN	DATE: DEC 1966
REVISED BY:	MLS	DATE: MAY 2021
APPROVED BY:	KJK	DATE: MAY 2021



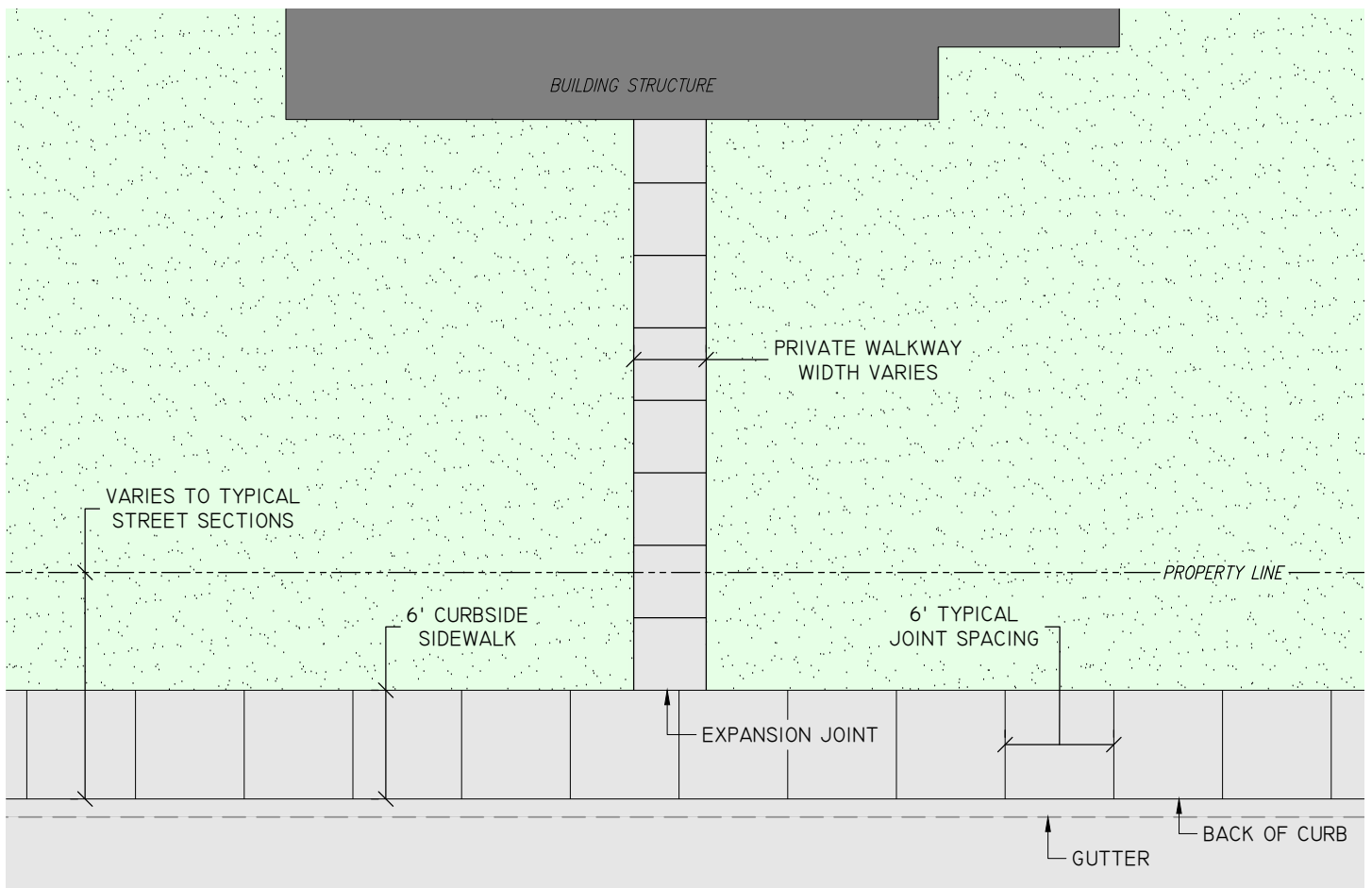
PLAN VIEW



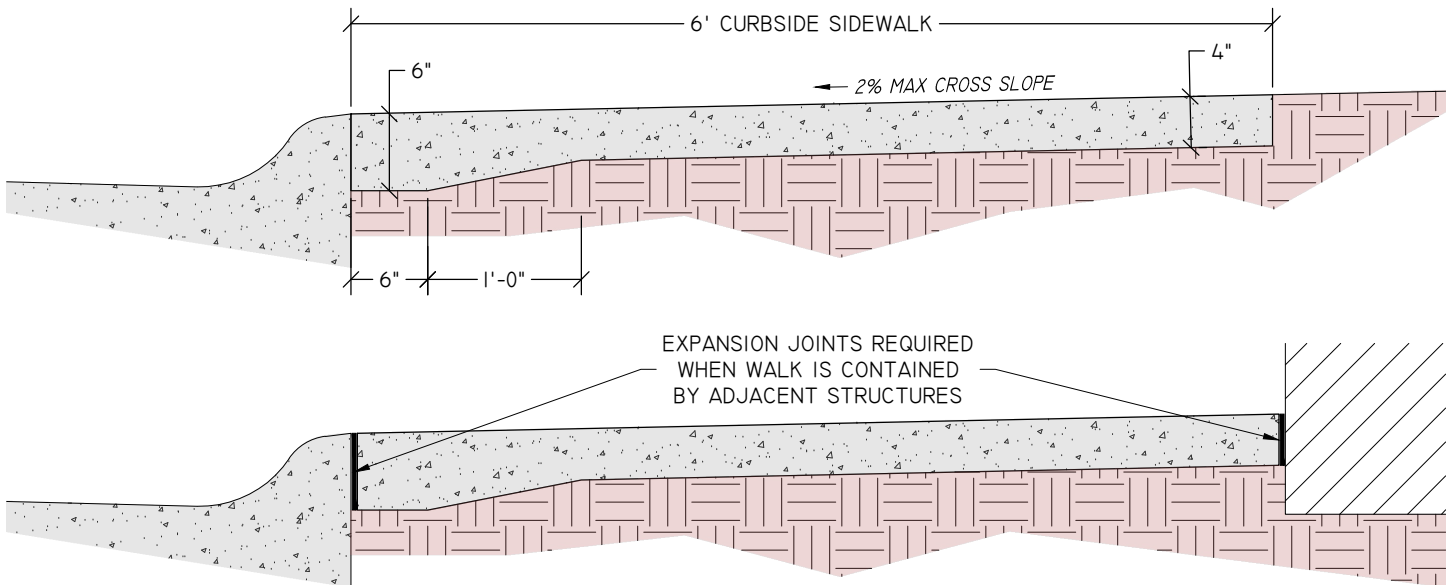
SECTION VIEW

NOTES:

1. SIDEWALK LOCATION DETERMINED BY SUBDIVISION AGREEMENT IF APPROVED AFTER 03/25/2014 - PRIOR WALKS TO MATCH EXISTING
2. ALL EXPANSION JOINTS SHALL BE INCIDENTAL TO SIDEWALK CONSTRUCTION



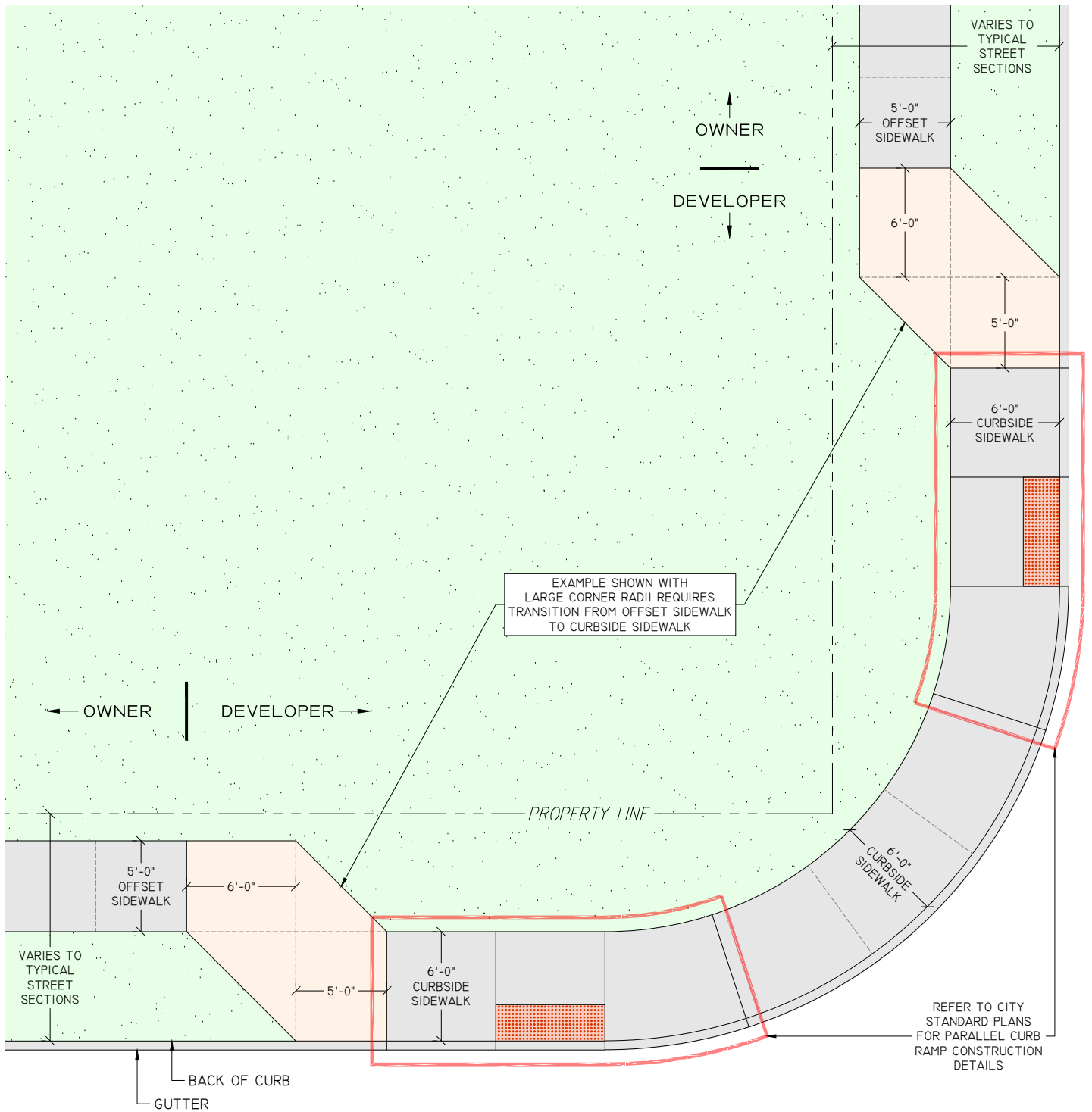
PLAN VIEW



SECTION VIEWS

NOTES:

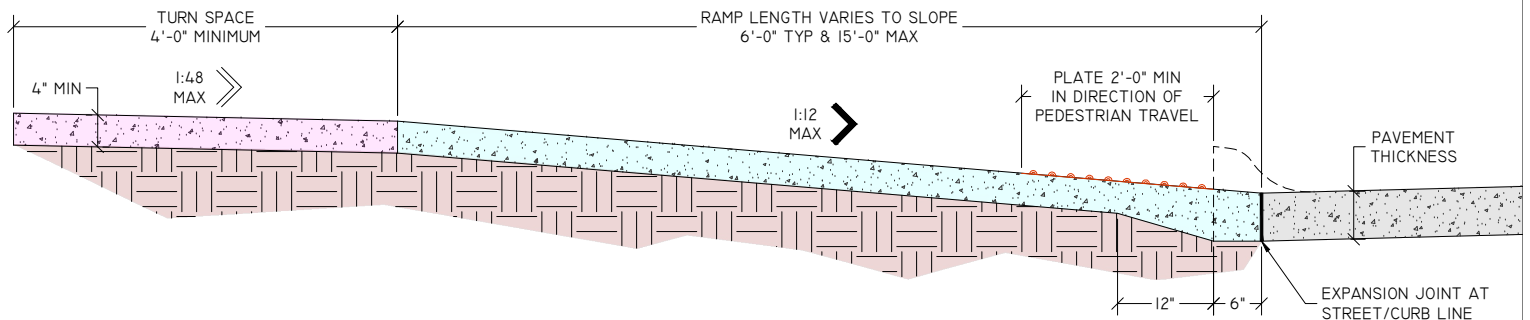
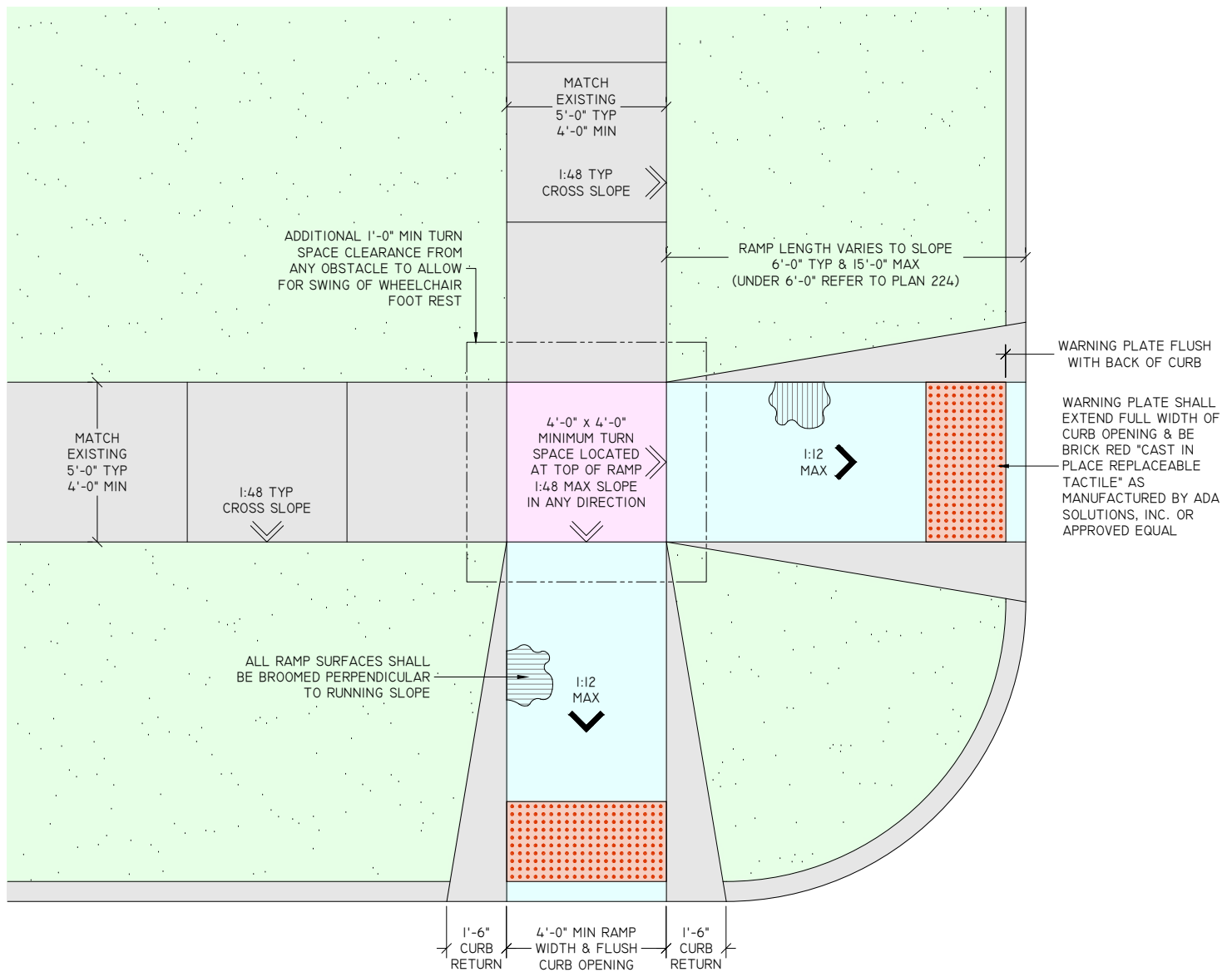
1. SIDEWALK LOCATION DETERMINED BY SUBDIVISION AGREEMENT IF APPROVED AFTER 03/25/2014 - PRIOR WALKS TO MATCH EXISTING
2. ALL EXPANSION JOINTS SHALL BE INCIDENTAL TO SIDEWALK CONSTRUCTION




NOTES:

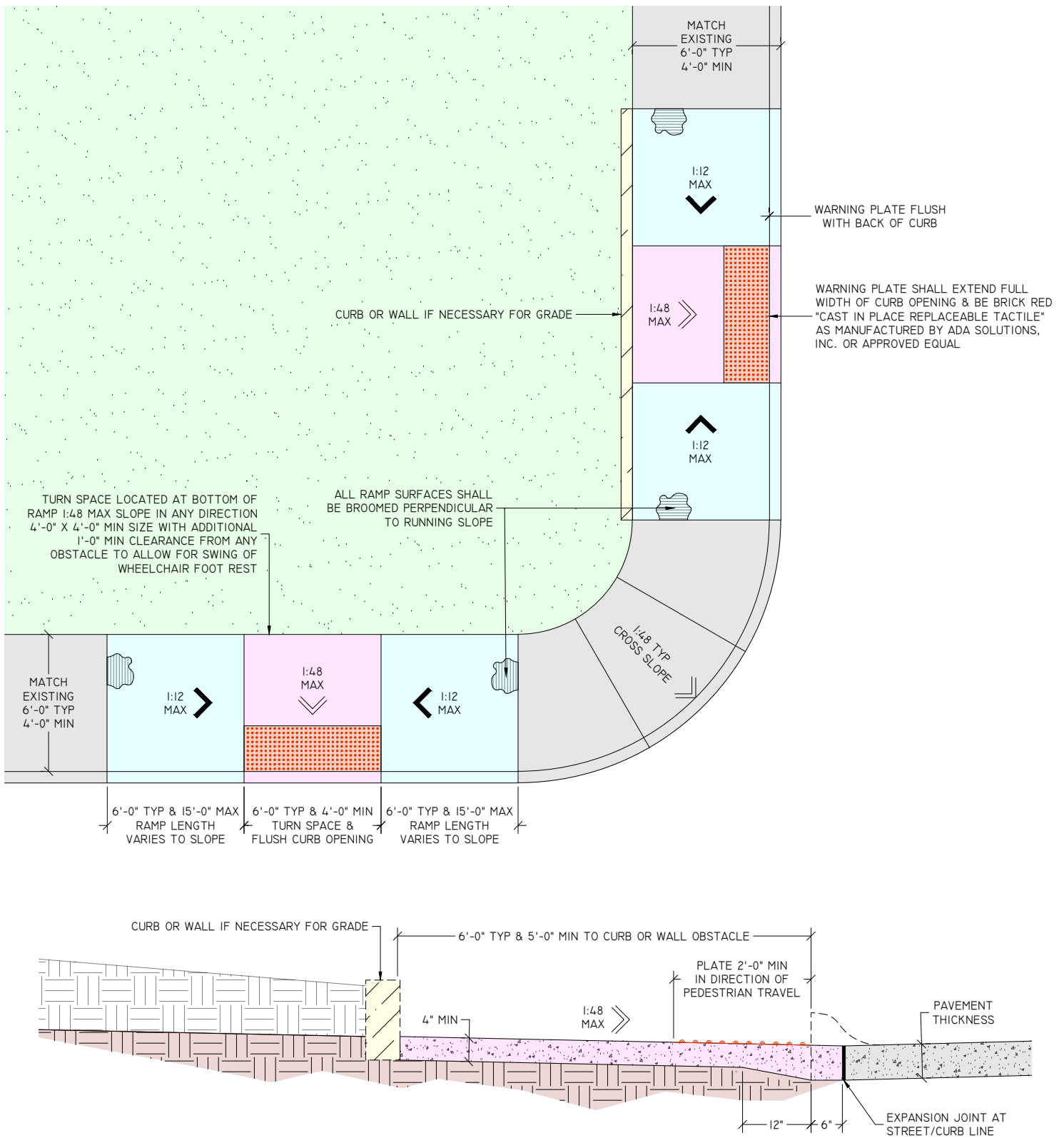
- I. VARIOUS CONDITIONS BETWEEN EXISTING INFRASTRUCTURE, TYPICAL STREET SECTIONS & SUBDIVISION AGREEMENTS MAY REQUIRE USE OF TRANSITIONAL SIDEWALK AT INTERSECTION CORNERS TO PREVENT PRIVATE PROPERTY ENCROACHMENT & TO ACCOMMODATE PROPER CURB RAMP DESIGN.

PLAN	224	
SHEET	1	OF 1
DRAWN BY:	MLS	DATE: JAN 2021
REVISED BY:	MLS	DATE: AUG 2021
APPROVED BY:	KJK	DATE: SEPT 2021

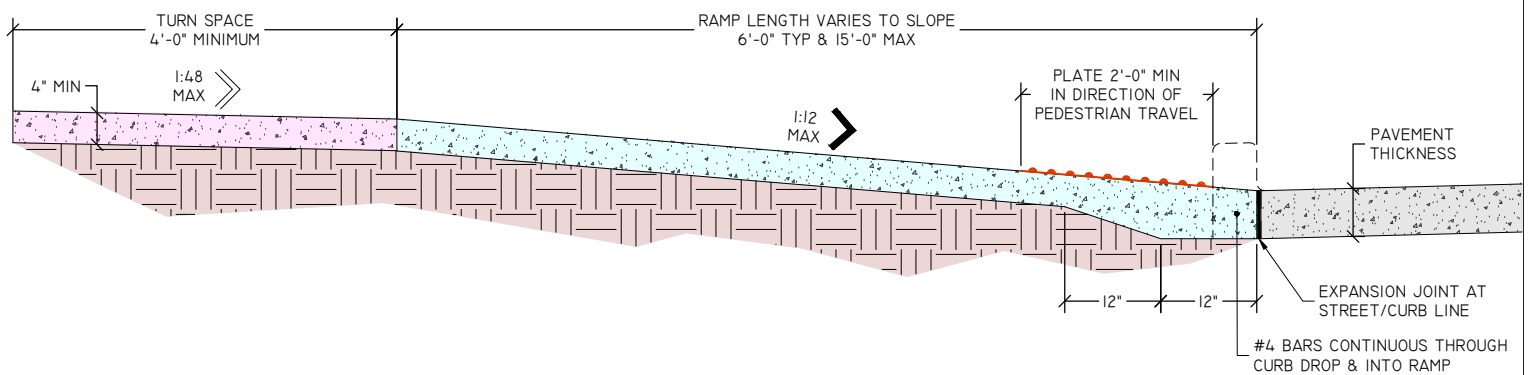
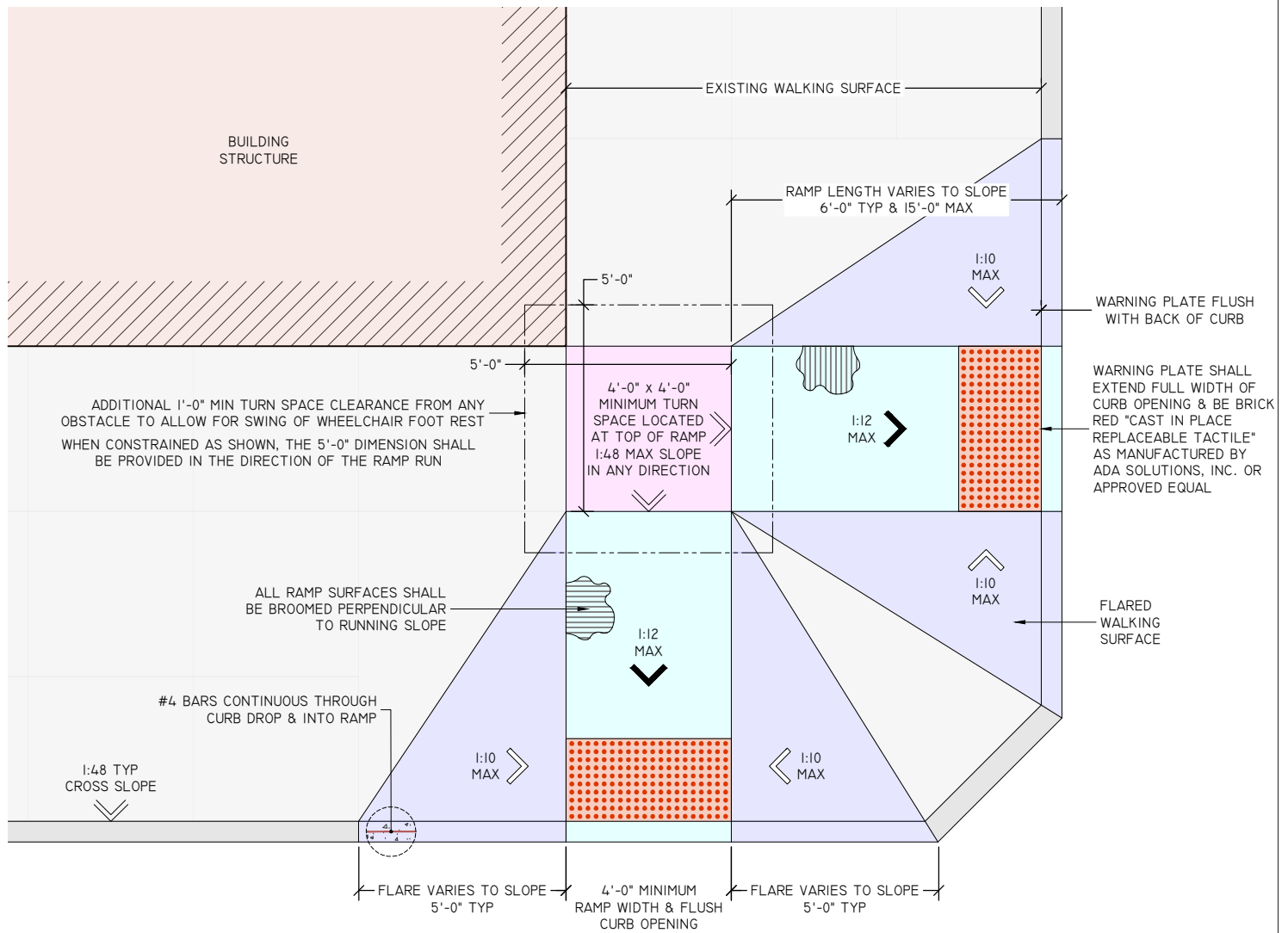


- NOTES:**
1. PERPENDICULAR CURB RAMPS STANDARD TO OFFSET SIDEWALKS.
 2. DETAILS PROVIDED HEREIN ARE TO BE USED AS A GUIDE IN COMBINATION WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN, THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), AS WELL AS CITY OF GRAND ISLAND SIDEWALK STANDARD PLANS.
 3. CONTRACTOR SHOULD ACCOUNT FOR CONSTRUCTION TOLERANCES TO PREVENT EXCEEDING MAXIMUM SLOPES & TO ASSURE UNIFORM RAMP GRADE, FREE OF SAGS & SHORT GRADE CHANGES.
 4. CONSTRUCTION FORMS TO BE INSPECTED & APPROVED BY PUBLIC WORKS DEPARTMENT. RAMPS THAT DO NOT COMPLY WITH FEDERAL REGULATIONS WILL NOT BE ACCEPTED.
 5. ADDITIONAL CURB RAMP RESOURCES AVAILABLE ONLINE AT WWW.ADA.GOV & WWW.ACCESS-BOARD.GOV/PROWAG.


	PERPENDICULAR CURB RAMP		PLAN	225
			SHEET	1 OF 1
CITY STANDARD PLANS & SPECIFICATIONS GRAND ISLAND, NEBRASKA		DRAWN BY:	MWL	DATE: DEC 2017
		REVISED BY:	MLS	DATE: AUG 2021
		APPROVED BY:	KJK	DATE: SEPT 2021

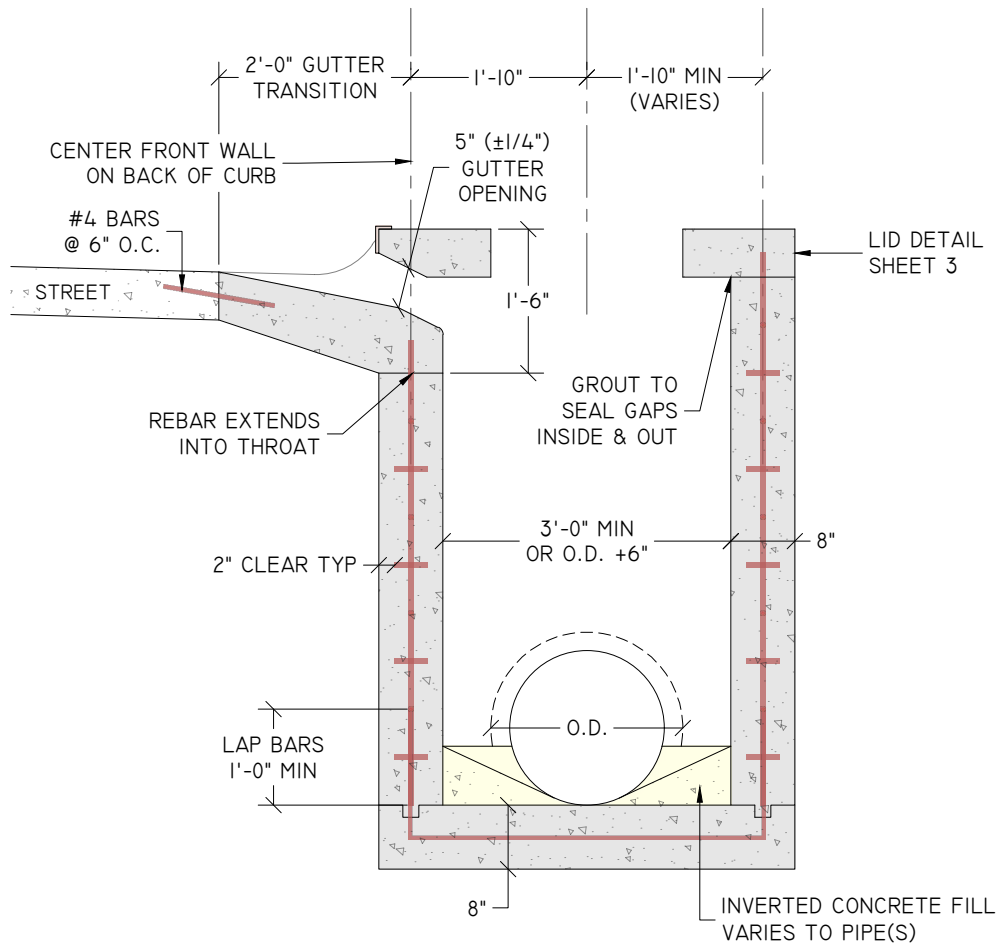


- NOTES:**
1. PARALLEL CURB RAMPS STANDARD TO CURBSIDE SIDEWALKS.
 2. DETAILS PROVIDED HEREIN ARE TO BE USED AS A GUIDE IN COMBINATION WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN, THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), AS WELL AS CITY OF GRAND ISLAND SIDEWALK STANDARD PLANS.
 3. CONTRACTOR SHOULD ACCOUNT FOR CONSTRUCTION TOLERANCES TO PREVENT EXCEEDING MAXIMUM SLOPES & TO ASSURE UNIFORM RAMP GRADE, FREE OF SAGS & SHORT GRADE CHANGES.
 4. CONSTRUCTION FORMS TO BE INSPECTED & APPROVED BY PUBLIC WORKS DEPARTMENT. RAMPS THAT DO NOT COMPLY WITH FEDERAL REGULATIONS WILL NOT BE ACCEPTED.
 5. ADDITIONAL CURB RAMP RESOURCES AVAILABLE ONLINE AT WWW.ADA.GOV & WWW.ACCESS-BOARD.GOV/PROWAG.

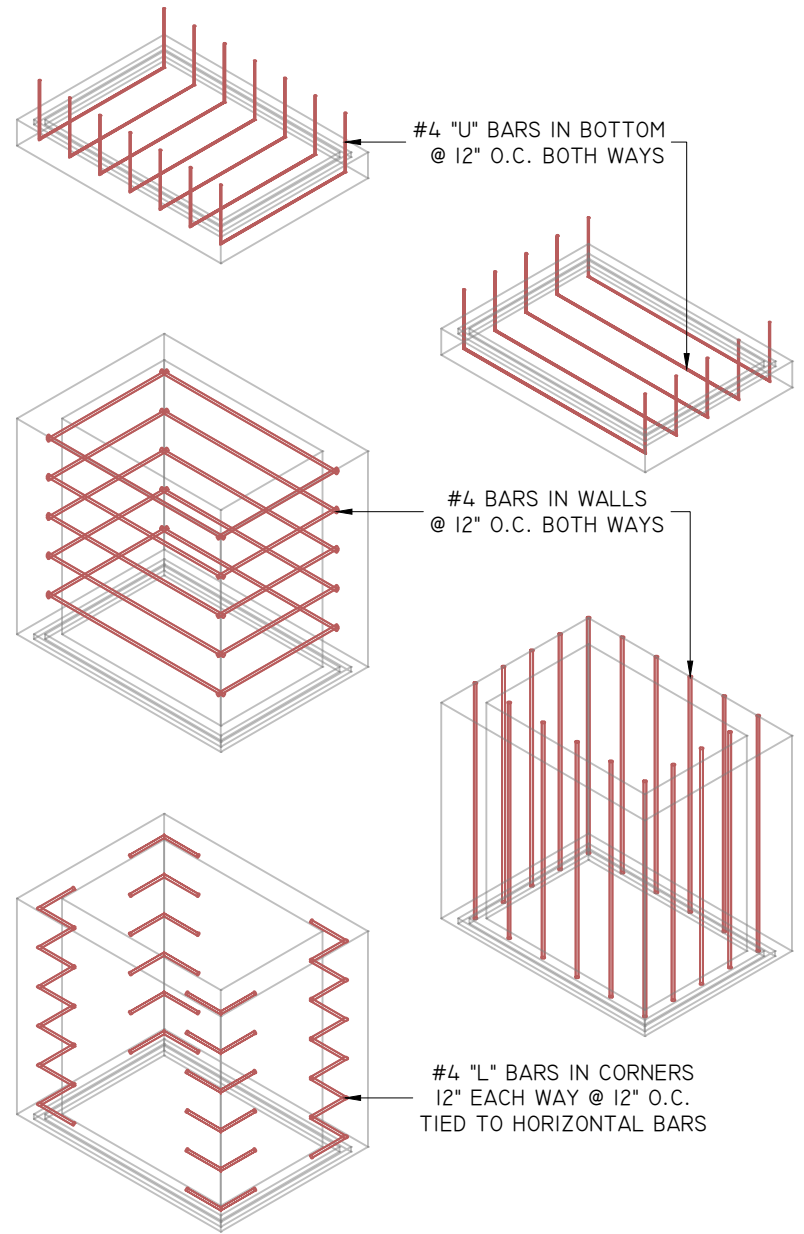


- NOTES:**
1. FLARED "WALKING SURFACE" CURB RAMPS STANDARD TO DOWNTOWN AREAS & WHEN SET WITHIN PEDESTRIAN CIRCULATION PATHS.
 2. DETAILS PROVIDED HEREIN ARE TO BE USED AS A GUIDE IN COMBINATION WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN, THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), AS WELL AS CITY OF GRAND ISLAND SIDEWALK STANDARD PLANS.
 3. CONTRACTOR SHOULD ACCOUNT FOR CONSTRUCTION TOLERANCES TO PREVENT EXCEEDING MAXIMUM SLOPES & TO ASSURE UNIFORM RAMP GRADE, FREE OF SAGS & SHORT GRADE CHANGES.
 4. CONSTRUCTION FORMS TO BE INSPECTED & APPROVED BY PUBLIC WORKS DEPARTMENT. RAMPS THAT DO NOT COMPLY WITH FEDERAL REGULATIONS WILL NOT BE ACCEPTED.
 5. ADDITIONAL CURB RAMP RESOURCES AVAILABLE ONLINE AT WWW.ADA.GOV & WWW.ACCESS-BOARD.GOV/PROWAG.

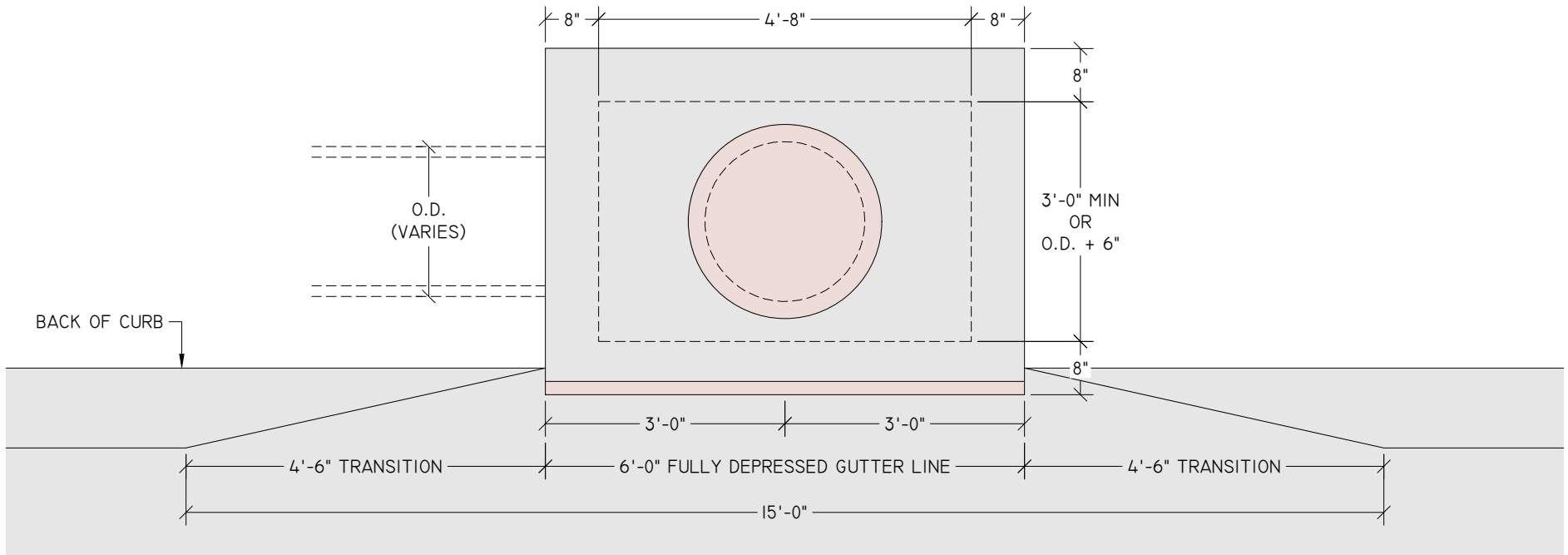
	FLARED "WALKING SURFACE" CURB RAMP		PLAN	227
			SHEET	1 OF 1
CITY STANDARD PLANS & SPECIFICATIONS GRAND ISLAND, NEBRASKA		DRAWN BY:	MWL	DATE: DEC 2017
		REVISED BY:	MLS	DATE: AUG 2021
		APPROVED BY:	KJK	DATE: SEPT 2021



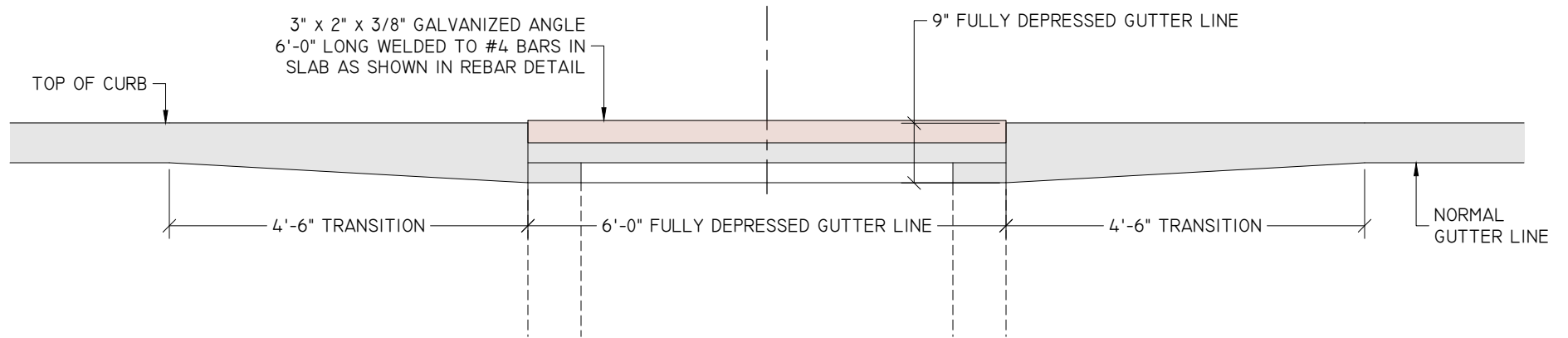
INLET TO STREET SECTION VIEW



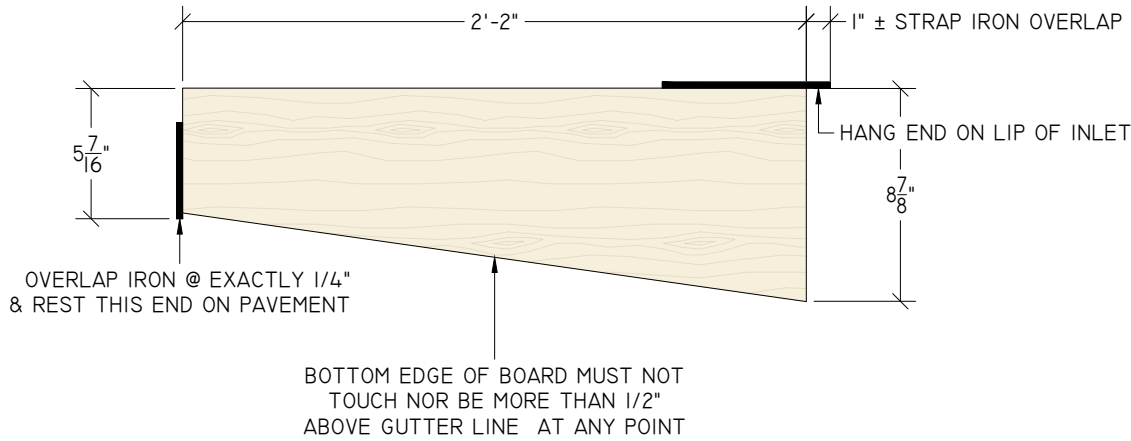
INLET REBAR LOCATION DETAIL



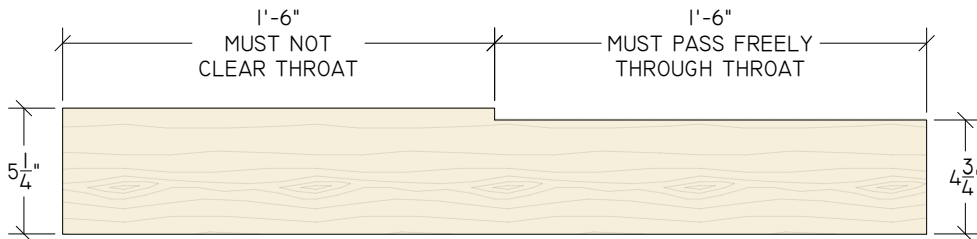
INLET PLAN VIEW



DEPRESSED GUTTER PROFILE VIEW



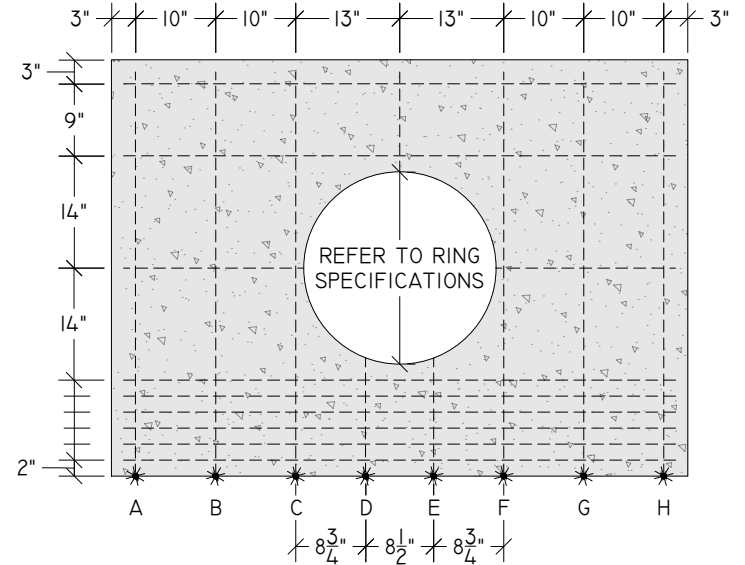
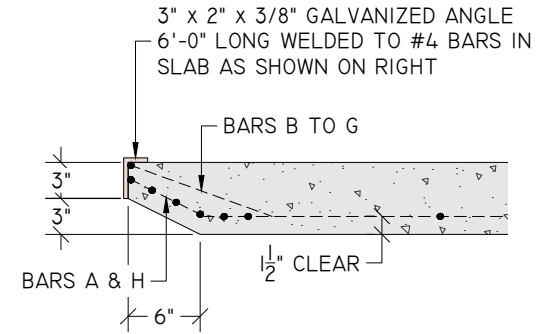
AUTOMATIC GUTTER LINE REJECTOR



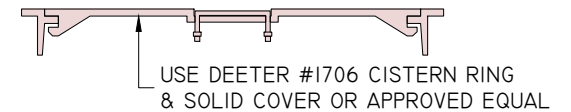
AUTOMATIC THROAT REJECTOR

NOTES:

- BOARDS SHOWN ARE TO BE CONSTRUCTED OF SUITABLE MATERIAL & ARE FOR USE WHILE CONCRETE IS STILL WORKABLE



- USE #4 BARS
- * INDICATES LOCATION OF GALVANIZED ANGLE WELDS TO REBAR



CONCRETE INLET LID & REBAR DETAIL

PLAN	228	
SHEET	3	OF 3
DRAWN BY:	LDC	DATE: JAN 1976
REVISED BY:	MLS	DATE: MAR 2022
APPROVED BY:	KJK	DATE: MAR 2022