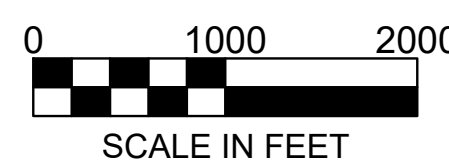


PROJECT LOCATION

LOCATION MAP



CIVIL PLAN ABBREVIATIONS:

AC	ACRE	CI	CONTROL JOINT	EOF	EMERGENCY OVERFLOW	GL	GUTTER LINE	IPS	IRON PIPE SIZE	NWL	NORMAL WATER LEVEL	RCP	REINFORCED CONCRETE PIPE	THRU	THROUGH
ADA	AMERICANS WITH DISABILITIES ACT	CL	CENTERLINE	EQ	EQUAL	GPM	GALLONS PER MINUTE	J-BOX	JUNCTION BOX	OC	ON CENTER	RD	ROOF DRAIN	TNFH	TOP NUT OF FIRE HYDRANT
ADD	ADDENDUM	CMP	CORRUGATED METAL PIPE	EX	EXISTING	GV	GATE VALVE	JT	JOINT	OCEW	ON CENTER EACH WAY	REBAR	REINFORCING BAR	TRANS	TRANSFORMER
AFF	ABOVE FINISHED FLOOR	CO	CLEANOUT	FDC	FIRE DEPARTMENT CONNECTION	HDPE	HIGH DENSITY POLYETHYLENE	LF	LINEAR FEET	OH	OVERHEAD	REM	REMOVE	TV	TELEVISION
AGG	AGGREGATE	CONC	CONCRETE	FDN	FOUNDATION	HD	HEAVY DUTY	LIN	LINEAR	OHD	OVERHEAD DOOR	ROW	RIGHT OF WAY	T/W	TOP OF WALL
APPROX	APPROXIMATE	CONST	CONSTRUCTION	FES	FINISHED FLOOR ELEVATION	HH	HANDHOLE	LPS	LOW PRESSURE STEAM	OZ	OUNCE	R/W	RIGHT OF WAY	TYP	TYPICAL
ARCH	ARCHITECT, ARCHITECTURAL	CONT	CONTINUOUS	FFE	FINISHED FLOOR ELEVATION	HORIZ	HORIZONTAL	LUM	LUMP SUM	PED	PEDESTAL, PEDESTRIAN	SAN	SANITARY	UT	UTILITY, UNDERGROUND
BFE	BASEMENT FLOOR ELEVATION	CT	CUBIC YARD	FPM	FEET PER MINUTE	HR	HOUR	ISO	LOWEST STRUCTURAL OPENING	PERF	PERFORATED	SCH	SCHEDULE	VCP	VITRIFIED CLAY PIPE
BIT	BITUMINOUS	C&G	CURB AND GUTTER	FPS	FEET PER SECOND	HWL	HIGH WATER LEVEL	MAX	MAXIMUM	PL	PROPERTY LINE	SF	SQUARE FOOT	W/O	WITHOUT
CAD	COMPUTER-AIDED DESIGN	DEM	DEMOLITION	FT	FOOT, FEET	HWY	HIGHWAY	MB	MAIL BOX	PP	POLYPROPYLENE	SPEC	SPECIFICATION	W/D	WITH
CB	CATCH BASIN	DIA	DIAMETER	FTG	FOOTING	HYD	HYDRANT	MECH	MECHANICAL	PSI	POUNDS PER SQUARE INCH	SQ	SQUARE	YD	YARD
CFS	CUBIC FEET PER SECOND	DIM	DIMENSION	I	INVERT	INV	INVERT	PVC	POLYVINYL CHLORIDE	STA	STATION	YR	YEAR		
CF	CUBIC FOOT	DS	DOWNSPOUT	GAL	GALLON	ID	INSIDE DIAMETER	MIN	MINIMUM	PVMT	PAVEMENT	SY	SQUARE YARD		
CI	CAST IRON	EA	EACH	GALV	GALVANIZED	IN	INCH	MISC	MISCELLANEOUS	QTY	QUANTITY	T/C	TOP OF CURB		
CIP	CAST IRON PIPE	ELEC	ELECTRICAL	GC	GENERAL CONTRACTOR	IN	INCH	NO	NUMBER	R	RIM	TEL	TELEPHONE		
CIPC	CAST IN PLACE CONCRETE	ELEV	ELEVATION	GE	GARAGE FLOOR ELEVATION	IP	IRON PIPE	NTS	NOT TO SCALE	RAD	RADIUS	TEMP	TEMPORARY		

SITE SUMMARY

PROJECT ADDRESS/LOCATION:	14600 FERRET ST NW
LEGAL DESCRIPTION:	Lot 2, Block 1, Hy-10 Ramsey, together with that part of the Southwest Quarter of the Northeast Quarter of Section 29, Township 32, Range 25, lying Northeasterly of Northeasterly Right-of-Way Line of Burlington Northern Railroad and Lot 1, Block 1, Hy-10 Ramsey, Anoka County, Minnesota
ZONING:	E-3 (EMPLOYMENT DISTRICT)
ADJACENT ZONING:	EAST: B-3 BUSINESS DISTRICT, NORTH: E-3 & B-3, SOUTH: RAIL
SITE/LOT AREA:	561,355 SF (12.89 AC)
IMPERVIOUS AREA:	258,688 SF (5.94 AC) 46.1%
GREENSPACE:	302,667 SF (6.95 AC) 53.9%
TOTAL BUILDING AREA:	179,198 SF
BUILDING COVERAGE:	31.9%

REQUIRED SETBACKS

	PARKING	BUILDING
FRONT YARD	20'-0"	35'-0"
SIDE YARD	20'-0"	25'-0"
REAR YARD	20'-0"	25'-0"

PARKING DATA

LAND USE CLASSIFICATION	ATHLETIC COMPLEX
EMPLOYEES	2 FULL-TIME & 6 PART-TIME
PARKING SPACES REQUIRED (CODE)	N/A
GOVERNING INFORMATION	N/A
PARKING SPACES REQUIRED	N/A
	PARKING STALLS PROVIDED
STANDARD	130
ACCESSIBLE	5
TOTAL	135

PROJECT GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS, AND CLARIFICATIONS ISSUED BY ARCHITECT/ENGINEER.
- CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED, AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
- THE LOCATION AND TYPE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST OF THE KNOWLEDGE OF I & S GROUP, INC. (ISG). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTOR SHALL VERIFY THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
- THE CONTRACTOR IS TO CONTACT "GOPHER STATE ONE CALL" FOR UTILITY LOCATIONS A MINIMUM OF 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (1-800-252-1166).

SPECIFICATIONS REFERENCE

ALL CONSTRUCTION SHALL COMPLY WITH THE 2018 CITY OF RAMSEY ENGINEERING DESIGN STANDARDS AND MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 EDITION, THE STANDARD SPECIFICATIONS FOR SANITARY SEWER, STORM DRAIN AND WATERMAIN AS PROPOSED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA 2018, AND THE CURRENT VERSION OF THE MINNESOTA STATE PLUMBING CODE UNLESS DIRECTED OTHERWISE.

PROJECT DATUM

HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). 1996 ADJUSTMENT (NAD83(1996)) ON THE RAMSEY COUNTY COORDINATE SYSTEM, IN U.S. SURVEY FEET. ELEVATIONS HAVE BEEN REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). RTK GPS METHODS WERE USED TO ESTABLISH HORIZONTAL AND VERTICAL COORDINATES FOR THIS PROJECT.

TOPOGRAPHIC SURVEY

THIS PROJECT'S TOPOGRAPHIC SURVEY CONSISTS OF DATA COLLECTED IN JANUARY 2022 BY ISG INC.

OWNER:

DUSTIN REEDER, PRESIDENT  
 ANOKA RAMSEY ATHLETIC ASSOCIATION  
 PO BOX 265  
 ANOKA, MN 55303

LEGEND

	EXISTING CITY LIMITS
	EXISTING SECTION LINE
	EXISTING QUARTER SECTION LINE
	EXISTING RIGHT OF WAY LINE
	EXISTING PROPERTY / LOT LINE
	EXISTING EASEMENT LINE
	EXISTING ACCESS CONTROL
	EXISTING WATER EDGE
	EXISTING WETLAND BOUNDARY
	EXISTING WETLAND / MARSH
	EXISTING FENCE LINE
	EXISTING CULVERT
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING SANITARY SEWER FOREMAIN
	EXISTING WATER
	EXISTING GAS
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND TELEPHONE
	EXISTING UNDERGROUND TV
	EXISTING OVERHEAD UTILITY
	EXISTING UNDERGROUND UTILITY
	EXISTING UNDERGROUND FIBER OPTIC
	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EXISTING TREE LINE
	EXISTING MANHOLE/STRUCTURE
	EXISTING CATCH BASIN
	EXISTING HYDRANT
	EXISTING VALVE
	EXISTING CURB STOP
	EXISTING POWER POLE
	EXISTING UTILITY PEDESTAL / CABINET
	PROPOSED LOT LINE
	PROPOSED RIGHT OF WAY
	PROPOSED EASEMENT
	PROPOSED CULVERT
	PROPOSED STORM SEWER
	PROPOSED STORM SEWER (PIPE WIDTH)
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY SEWER (PIPE WIDTH)
	PROPOSED WATER
	PROPOSED GAS
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED UNDERGROUND TV
	PROPOSED CONTOUR
	PROPOSED MANHOLE (STORM, SANITARY)
	PROPOSED CATCH BASIN
	PROPOSED HYDRANT
	PROPOSED VALVE

CIVIL SHEET INDEX

C0-10	SITE DATA
C0-20	SITE DETAILS
C0-21	SITE DETAILS
C0-22	SITE DETAILS
C0-23	SITE DETAILS
C0-24	SITE DETAILS
C1-10	SWPPP NARRATIVE
C1-11	SWPPP NARRATIVE
C1-20	SWPPP DETAILS
C1-30	PRE- CONSTRUCTION SWPPP
C1-40	PROPOSED SWPPP
C2-10	EXISTING SITE AND REMOVAL PLAN
C2-11	TREE INVENTORY AND PRESERVATION PLAN
C3-10	SITE PLAN
C3-11	FIRE ACCESS ROUTE
C3-12	FUTURE SITE PLAN
C3-20	UTILITY PLAN
C3-21	HYDRANT COVERAGE PLAN
C3-30	UTILITY SCHEDULES
C4-10	OVERALL GRADING PLAN
C5-10	PLANTING AND RESTORATION PLAN
C5-20	PLANTING NOTES AND DETAILS
C6-10	PHOTOMETRIC PLAN
C6-20	PHOTOMETRIC DETAILS

B.M. ELEVATION=884.89

MNDOT CONCRETE MONUMENT #66054  
 PUMA MNDT RM 1 LOCATED NEAR  
 TH 10 MILEPOINT 219.45

MANAGING OFFICE:

MINNEAPOLIS WEST OFFICE  
 6465 WAYZATA BOULEVARD  
 SUITE 970  
 ST. LOUIS PARK, MN 55426  
 PHONE: 952.426.0699

PROJECT MANAGER: REESE SUDTELGTE  
 EMAIL: REESE.SUDTELGTE@ISGINC.COM



NOTE: THE CLARITY OF THESE PLANS DEPEND UPON COLOR COPIES. IF THIS TEXT DOES NOT APPEAR IN COLOR, THIS IS NOT AN ORIGINAL PLAN SET AND MAY RESULT IN MISINTERPRETATION.

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REESE A. SUDTELGTE

DATE: 02/10/2023 LIC. NO. 54243

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MITCHELL R. WORKMON

DATE: 02/10/2023 LIC. NO. 53748

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PROJECT

**ANOKA RAMSEY  
 ATHLETIC  
 ASSOCIATION  
 DOME**

RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO.	22-26051
FILE NAME	26051 CO-DETAILS
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE

SITE DATA

SHEET

**C0-10**

**FOR TREE PRESERVATION PLAN REFER TO SHEET C-511**

REMOVAL LEGEND	
SYMBOL	DESCRIPTION
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE CONCRETE WALK
	REMOVE DECIDUOUS TREE (CLEAR AND GRUB)
	REMOVE CONIFEROUS TREE (CLEAR AND GRUB)

CONTRACTOR SHALL VERIFY EXISTING PAVEMENT SECTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES. PAVEMENT REMOVALS SHALL INCLUDE FULL DEPTH SAWCUT AND SECTION REMOVAL.



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**REESE A. SUDELGTGE**

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PROJECT  
**ANOKA RAMSEY ATHLETIC ASSOCIATION DOME**

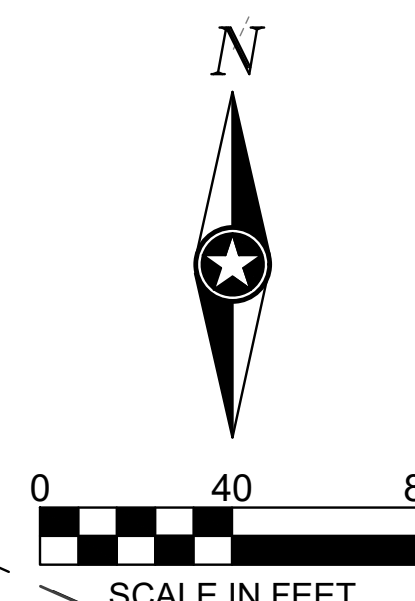
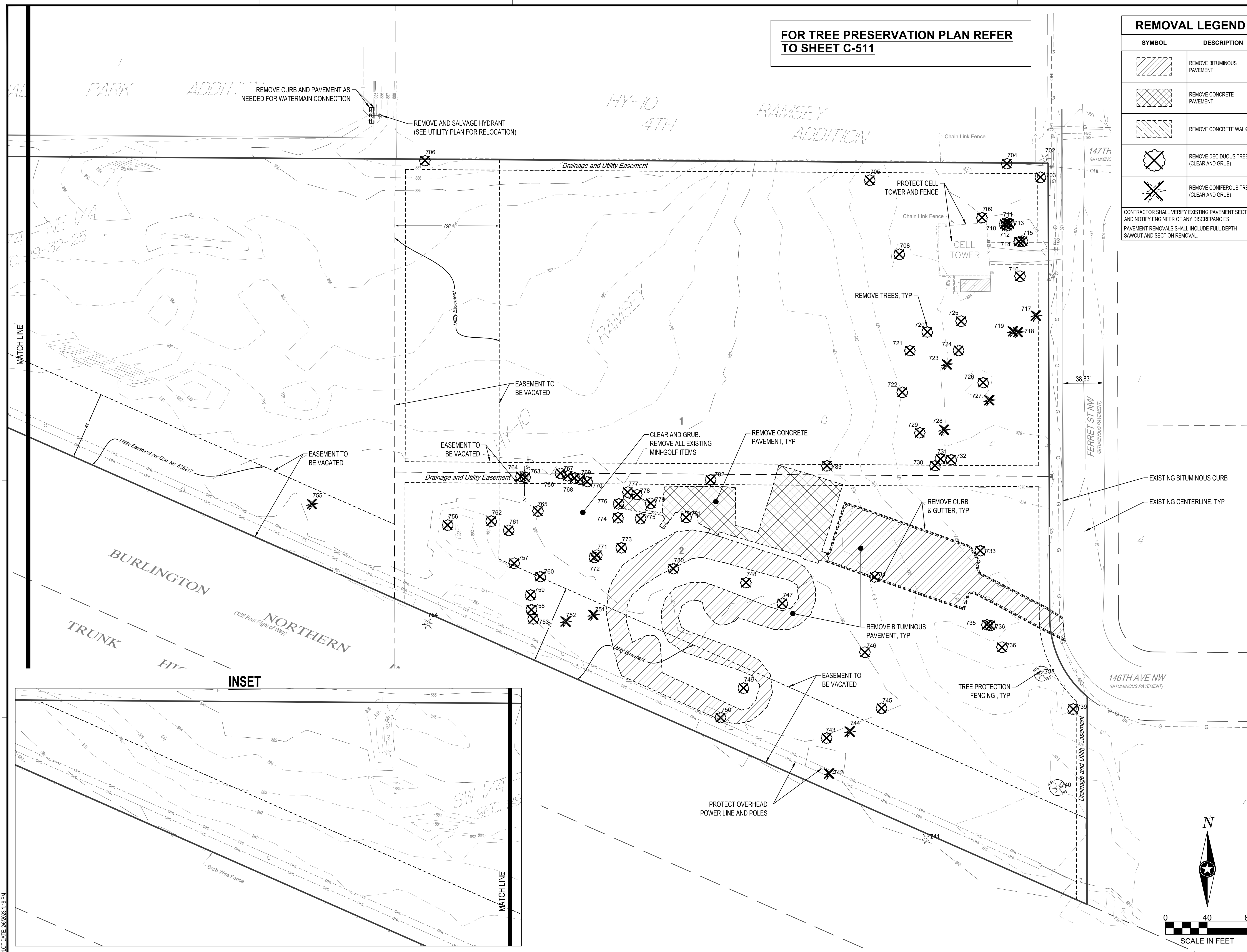
RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO.	22-26051
FILE NAME	26051 C2-EXIST
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

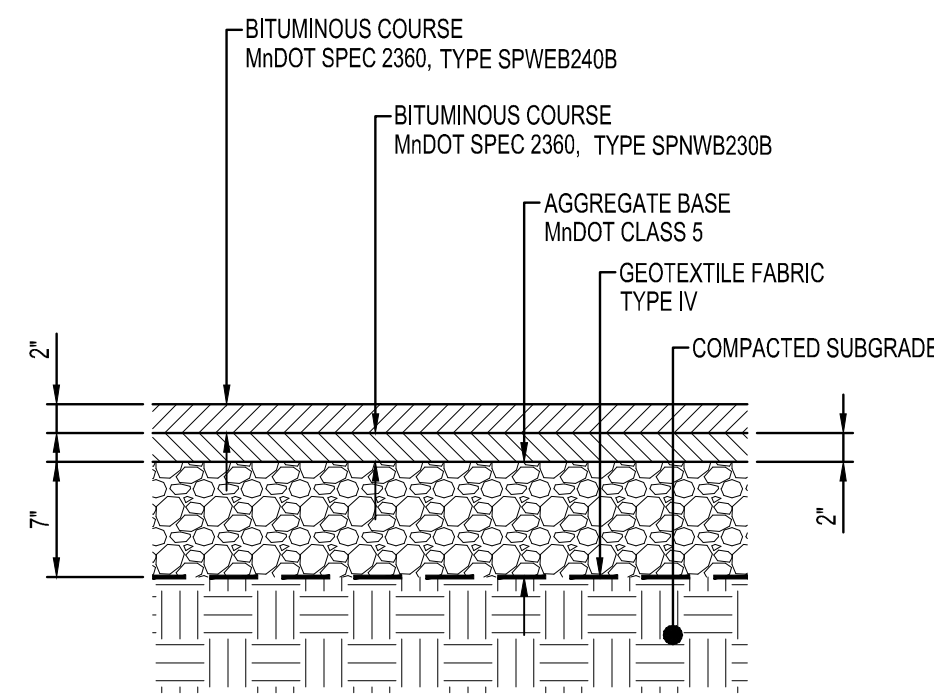
TITLE  
**EXISTING SITE AND REMOVAL PLAN**

SHEET  
**C2-10**

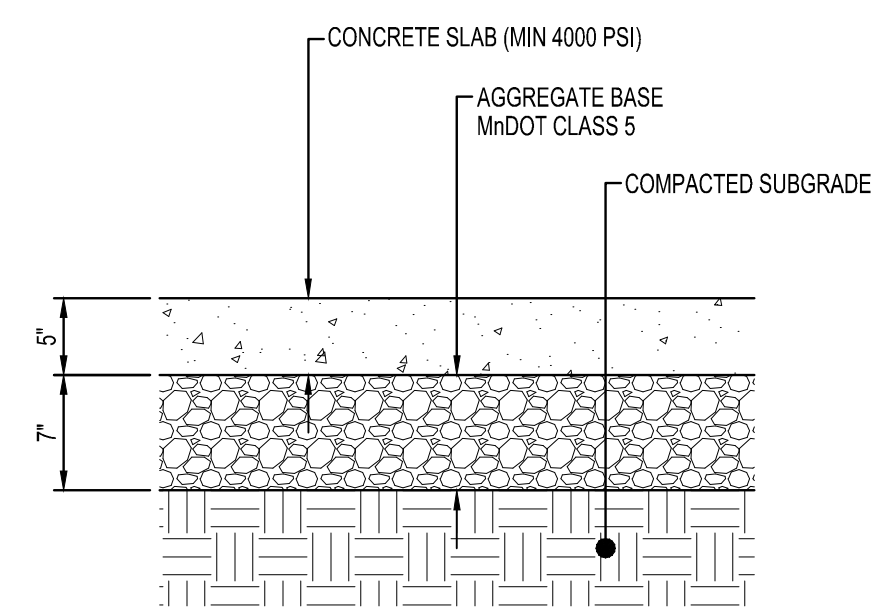


PLOT DATE: 2/6/2023 1:19 PM

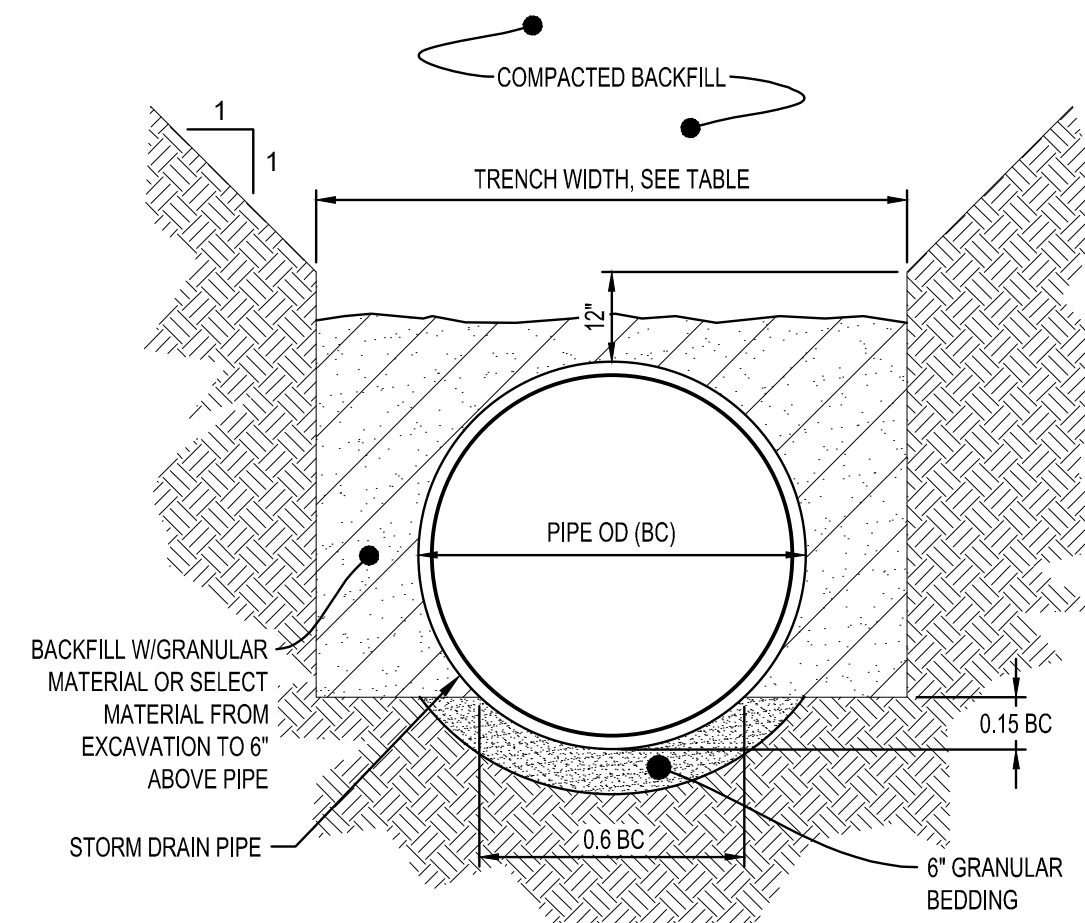
**PRELIMINARY NOT FOR CONSTRUCTION**



**HEAVY DUTY BITUMINOUS PAVEMENT**  
NTS



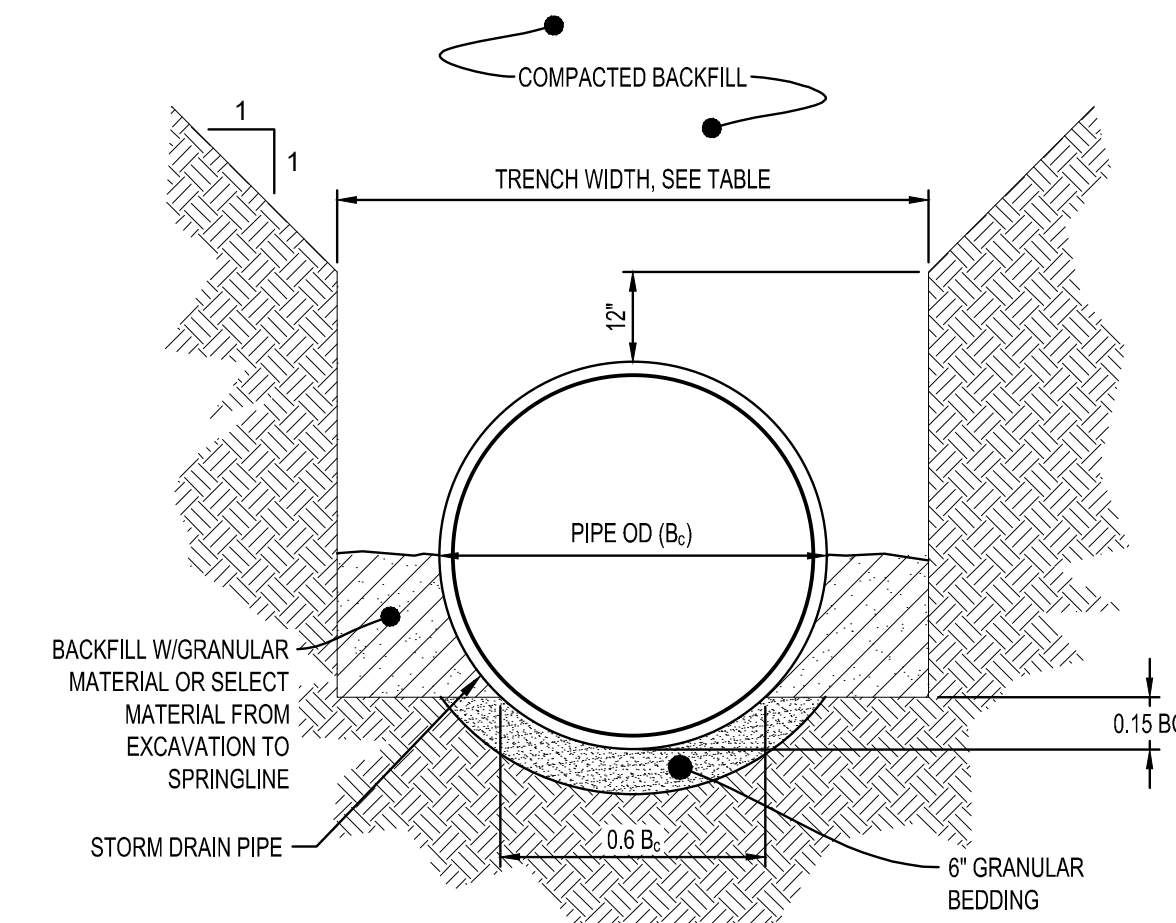
**STANDARD CONCRETE WALK**  
NTS



PIPE Ø	TRENCH WIDTH
36" OR LESS	BC + 24"
42" TO 54"	1.5 x BC
60" OR OVER	BC + 36"

**NOTES:**  
GRANULAR BEDDING AND BACKFILL FOR STORM DRAIN PIPES SHALL BE INCIDENTAL TO STORM DRAIN CONSTRUCTION

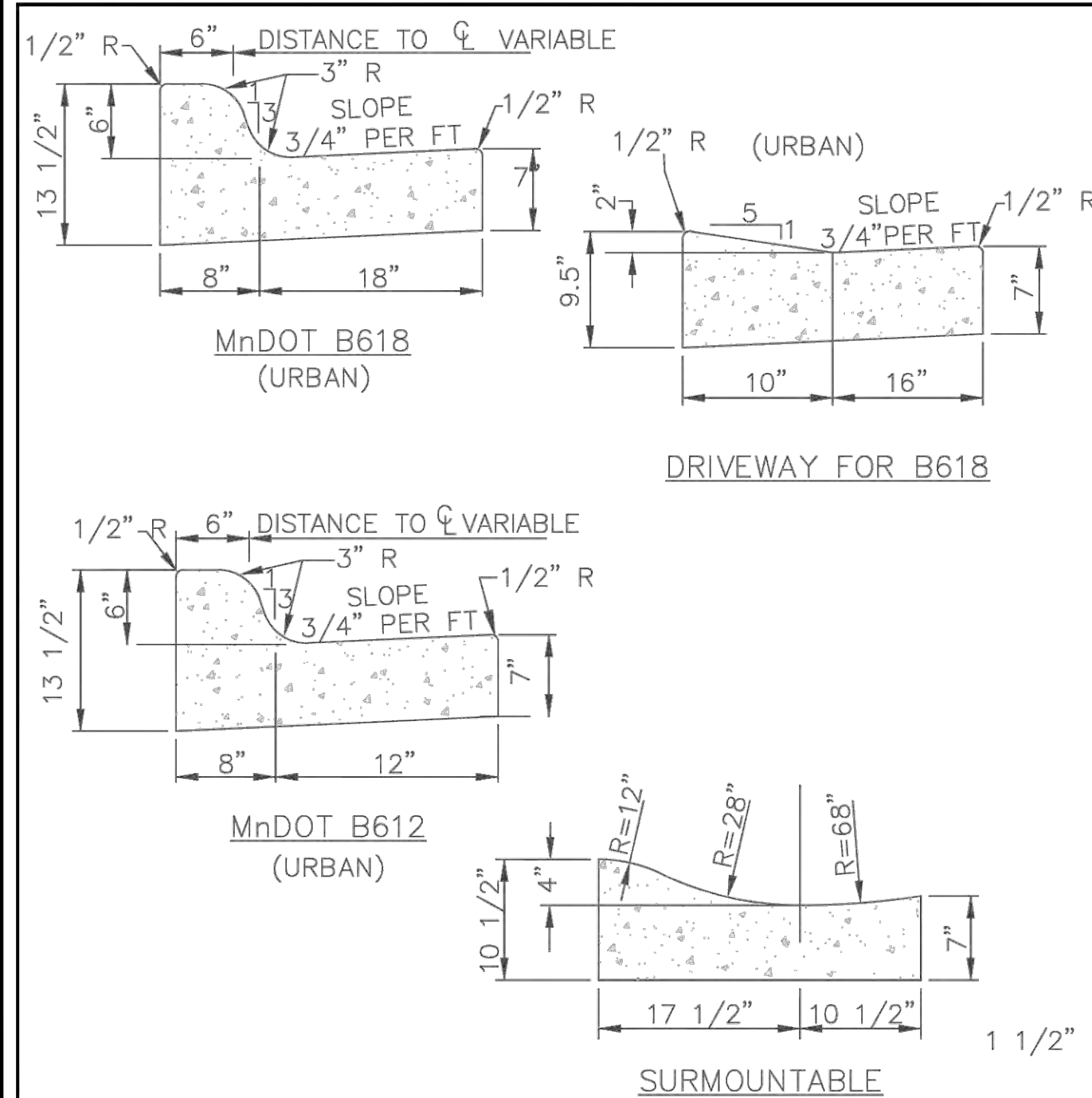
**NON-CONCRETE STORM DRAIN PIPE BEDDING**  
NTS



PIPE Ø	TRENCH WIDTH
36" OR LESS	B <sub>c</sub> + 24"
42" TO 54"	1.5 x B <sub>c</sub>
60" OR OVER	B <sub>c</sub> + 36"

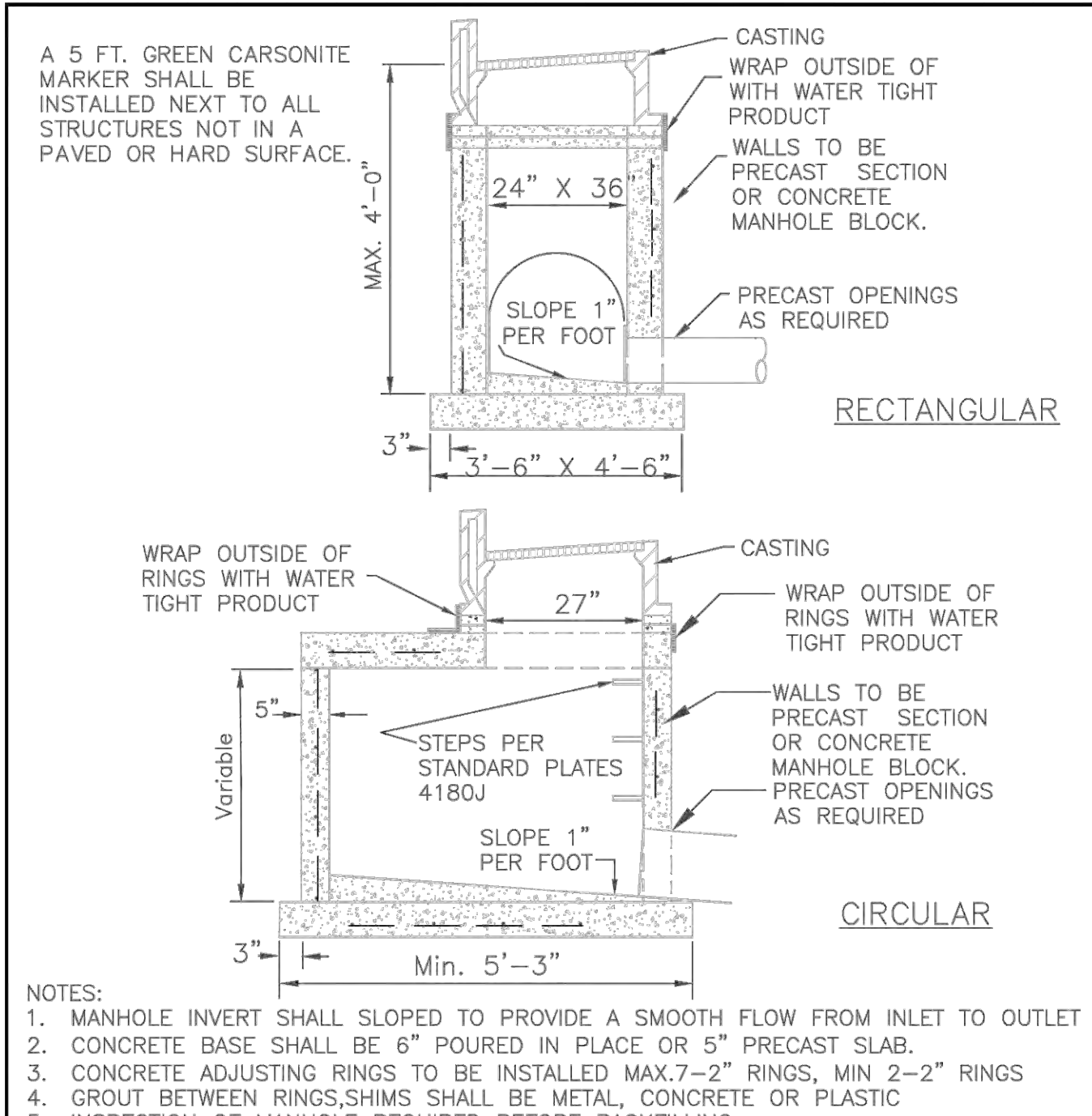
**NOTES:**  
GRANULAR BEDDING AND BACKFILL FOR STORM DRAIN PIPES SHALL BE INCIDENTAL TO STORM DRAIN CONSTRUCTION

**REINFORCED CONCRETE STORM DRAIN PIPE BEDDING**  
NTS



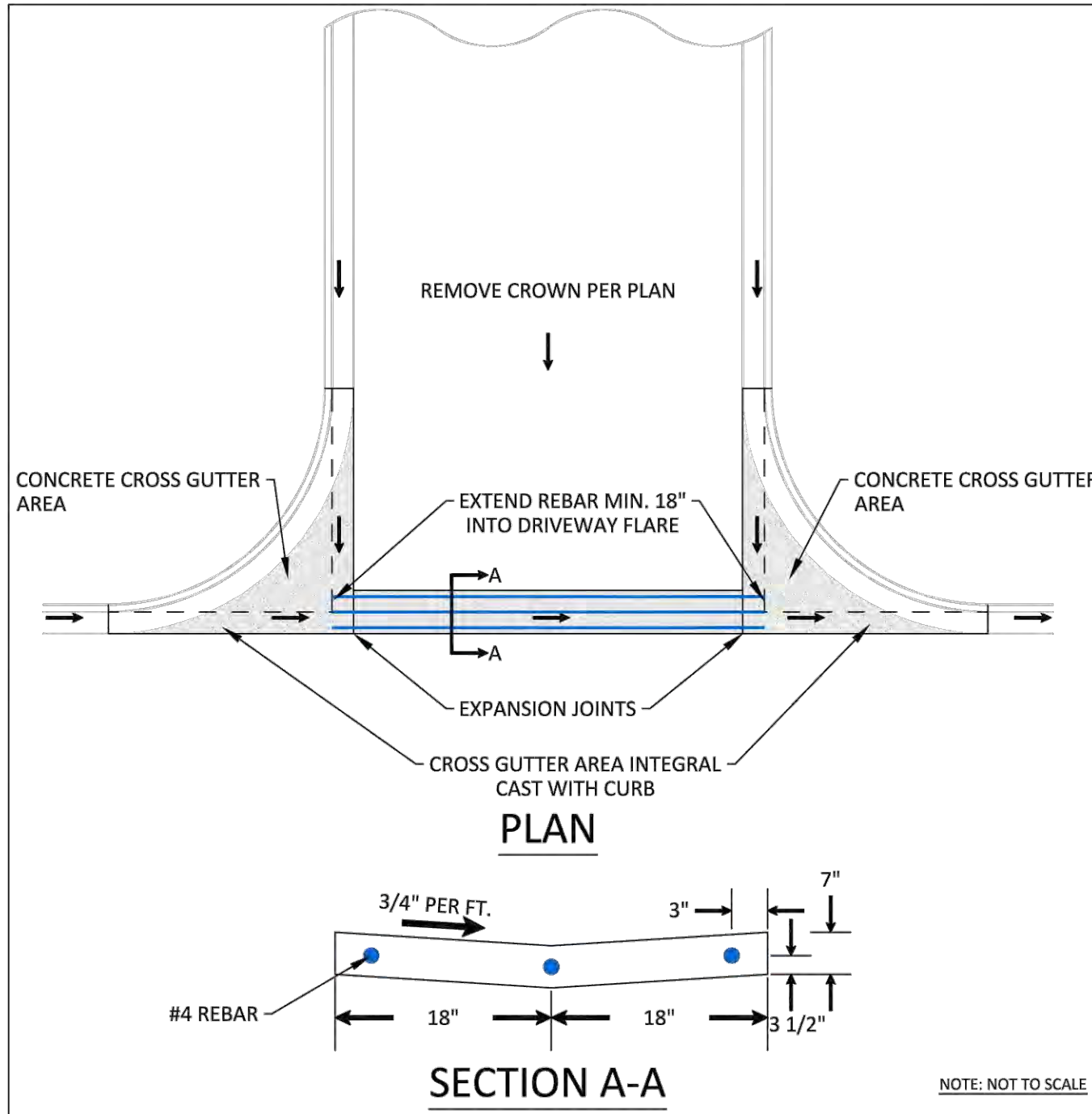
**NOTES:**  
1. ON WEAR COURSE MILL THE EXISTING BITUMINOUS 1.5" BY 24" IN FRONT OF THE REPLACEMENT CURB.  
2. ON BASE COURSE SAW CUT AND REMOVE EXISTING BITUMINOUS 18" IN FRONT OF THE REPLACEMENT CURB.

APPROVED: 1 - 2016  
  
 STANDARD DETAILS: CURB AND GUTTER  
 CITY PLATE No. STR-1



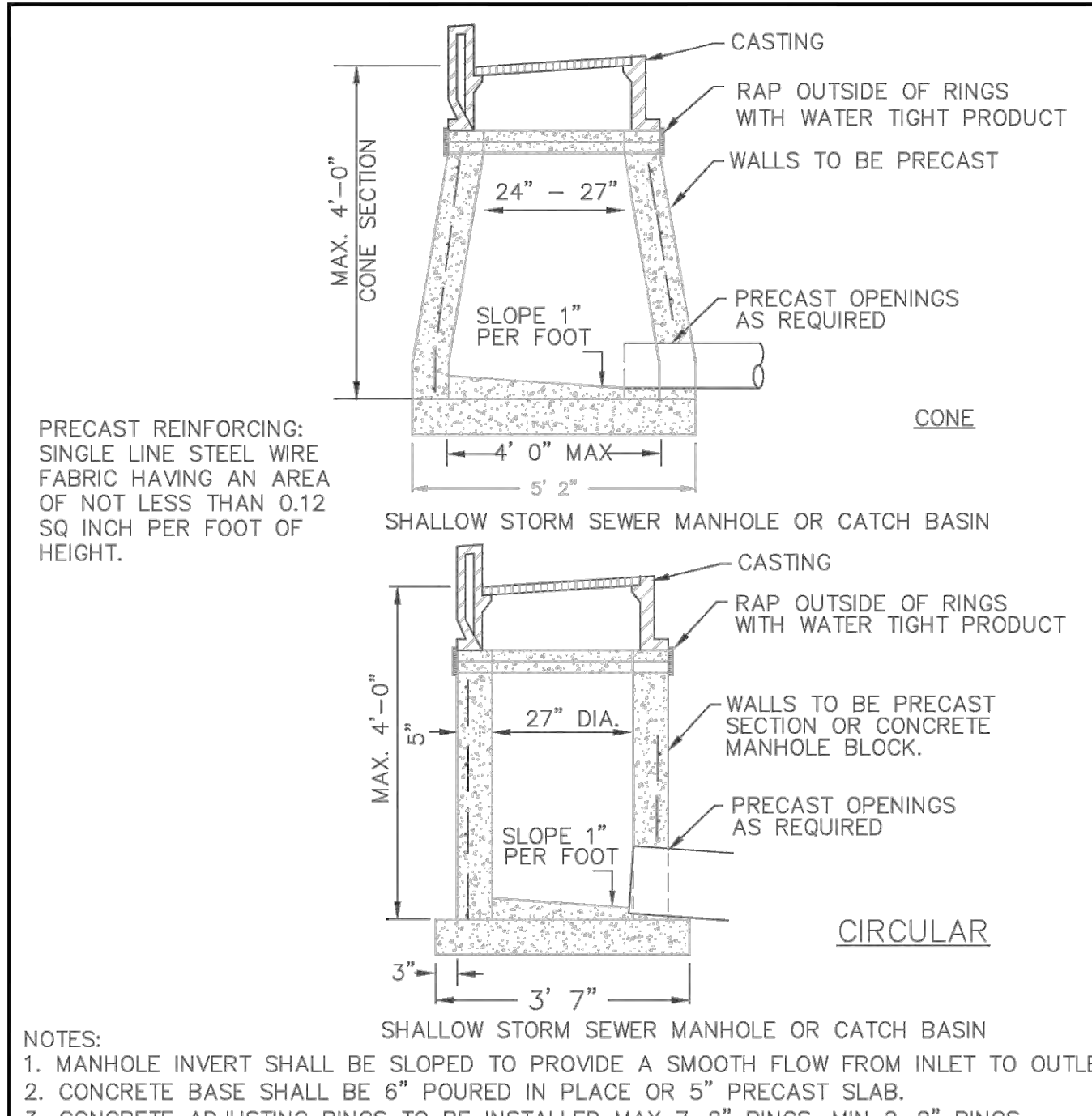
**NOTES:**  
1. MANHOLE INVERT SHALL SLOPED TO PROVIDE A SMOOTH FLOW FROM INLET TO OUTLET  
2. CONCRETE BASE SHALL BE 6" POURED IN PLACE OR 5" PRECAST SLAB.  
3. CONCRETE ADJUSTING RINGS TO BE INSTALLED MAX. 7-2" RINGS, MIN 2-2" RINGS  
4. GROUT BETWEEN RINGS, SHIMS SHALL BE METAL, CONCRETE OR PLASTIC  
5. INSPECTION OF MANHOLE REQUIRED BEFORE BACKFILLING  
6. A 10 GAUGE SOLID COPPER TRACER WIRE IS REQUIRED WITH ALL STORM LINES.  
7. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE  
8. STEPS ARE REQUIRED IF STRUCTURE FROM THE CASTING TO THE INVERT IS GREATER THAN 4 FEET  
9. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS

APPROVED: 4 - 2007  
  
 STANDARD DETAILS: CATCH BASIN  
 CITY PLATE No. STO-1



**NOTES:**  
1. WITH REMOVAL OF EXISTING CURB AT A STREET, MILL BITUMINOUS TO A DEPTH OF 1.5" AND A WIDTH OF 18" IN EXISTING STREET.  
2. TO BE USED WHENEVER CROSS DRAINAGE IS < 2%.  
3. CONCRETE CURB AND GUTTER SHALL BE CAST INTEGRAL WITH CONCRETE CROSS GUTTER AREA.  
4. CONCRETE CURB AND GUTTER SHALL BE PAID SEPARATELY FROM CONCRETE CROSS GUTTER AREA.

APPROVED: 3 - 2017  
  
 STANDARD DETAILS: CROSS GUTTER  
 CITY PLATE No. STR-2



**NOTES:**  
1. MANHOLE INVERT SHALL BE SLOPED TO PROVIDE A SMOOTH FLOW FROM INLET TO OUTLET.  
2. CONCRETE BASE SHALL BE 6" POURED IN PLACE OR 5" PRECAST SLAB.  
3. CONCRETE ADJUSTING RINGS TO BE INSTALLED MAX 7-2" RINGS, MIN 2-2" RINGS.  
4. GROUT BETWEEN RINGS  
5. SHIMS USED FOR LEVELING SHALL BE METAL OR CONCRETE.  
6. A 10 GAUGE SOLID COPPER TRACER WIRE IS REQUIRED WITH ALL SEWER LINES.  
7. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE  
8. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS.

APPROVED: 6 - 2008  
  
 STANDARD DETAILS: STORM AREA INLET  
 CITY PLATE No. STO-2



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 REESE A. SUDELGTE

DATE: 02/10/2023 LIC. NO. 54243

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 MITCHELL R. WORKMON

DATE: 02/10/2023 LIC. NO. 53748

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PROJECT  
**ANOKA RAMSEY ATHLETIC ASSOCIATION DOME**

RAMSEY MINNESOTA

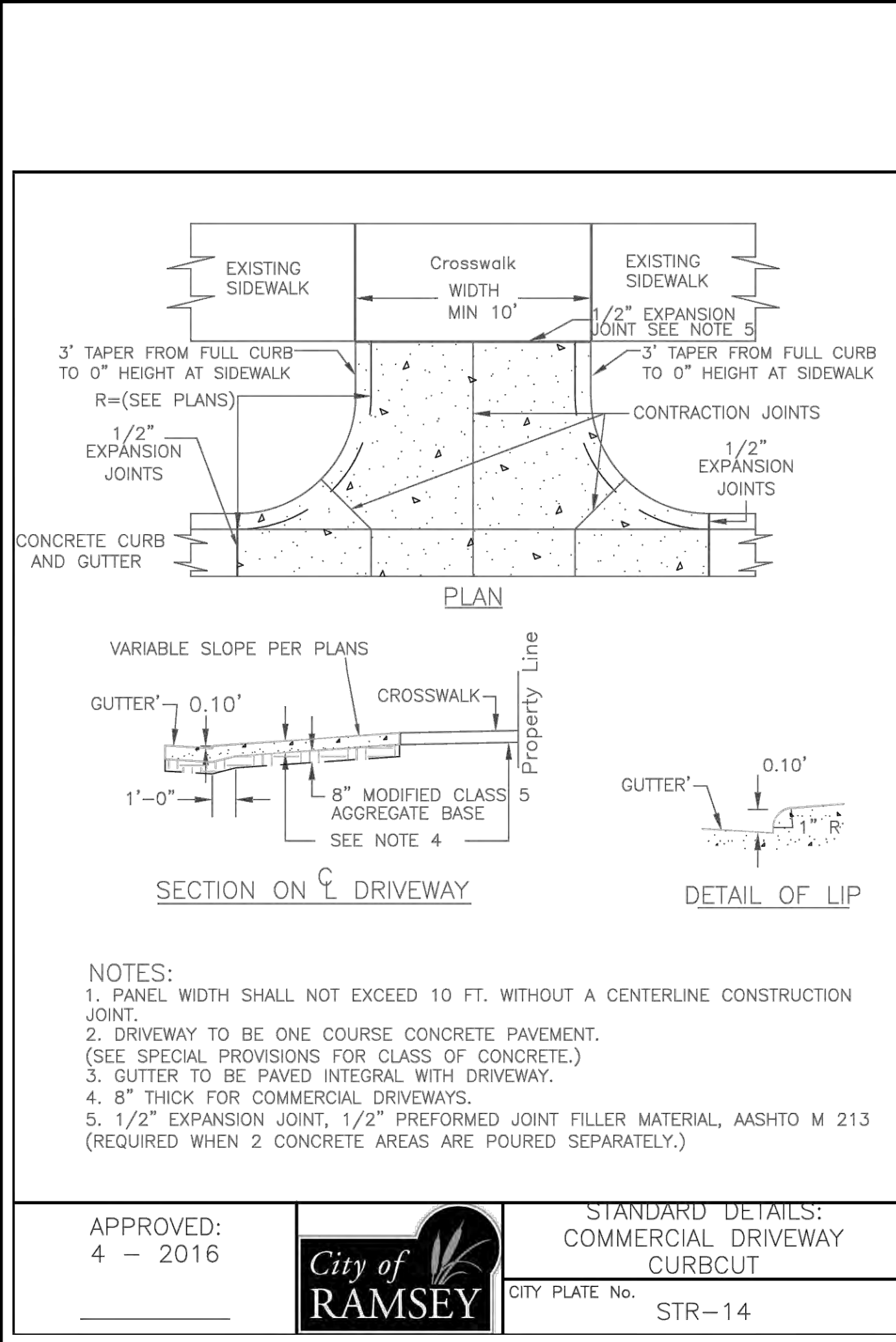
REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO. 22-26051  
 FILE NAME 26051 CO-DETAILS  
 DRAWN BY AJR  
 DESIGNED BY AJR  
 REVIEWED BY RAS  
 ORIGINAL ISSUE DATE 01/20/2023  
 CLIENT PROJECT NO. -

TITLE

**SITE DETAILS**

SHEET  
**C0-20**

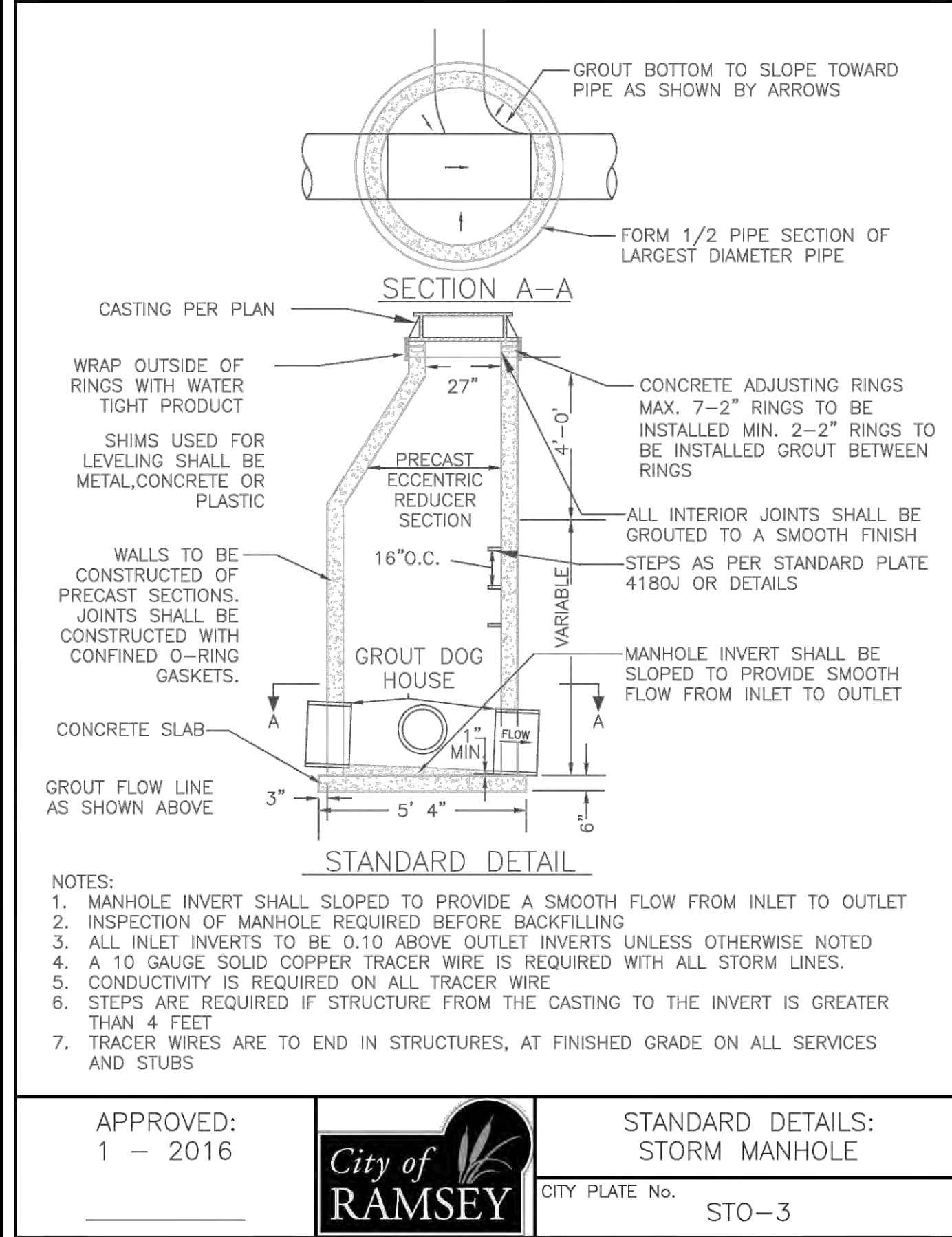
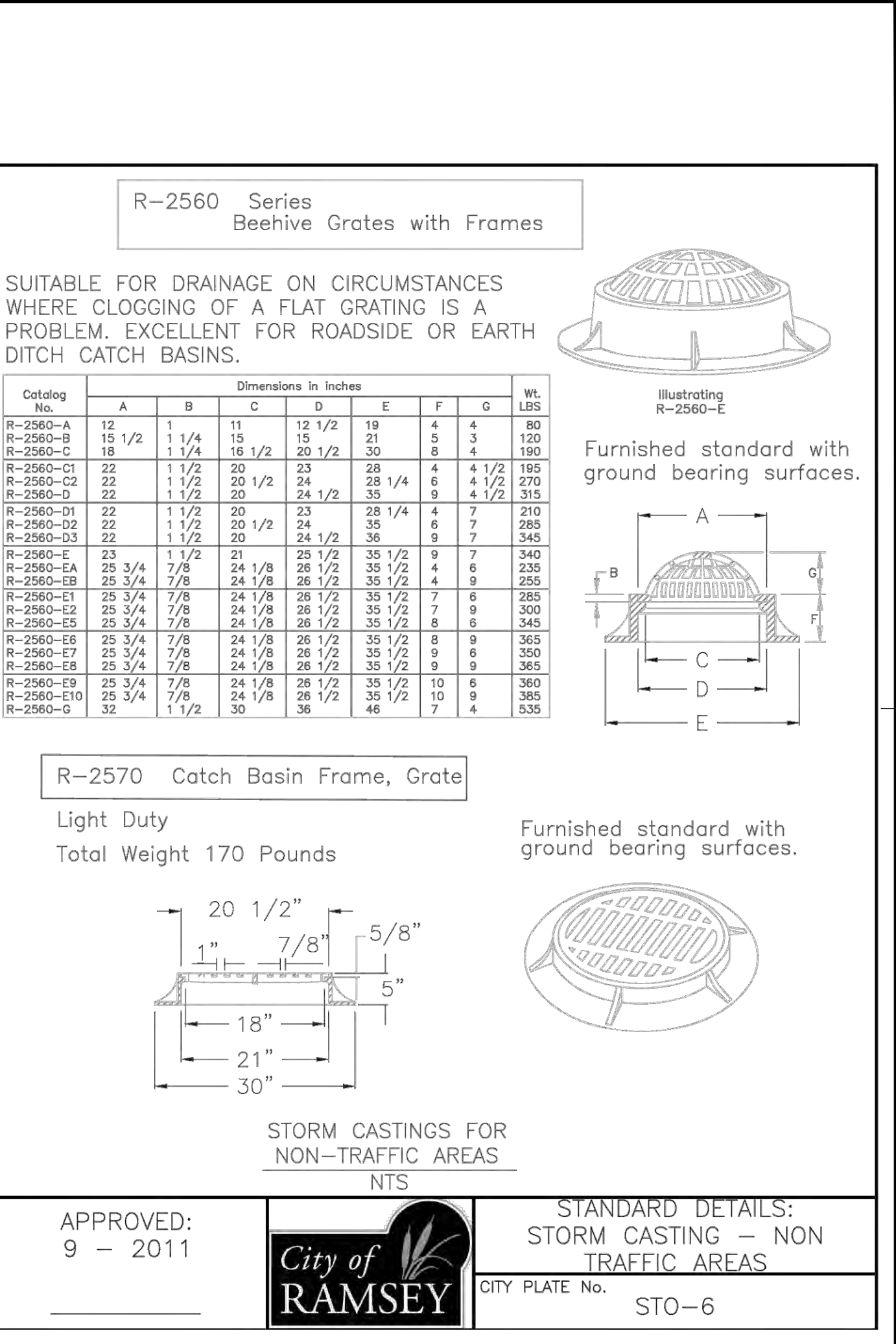
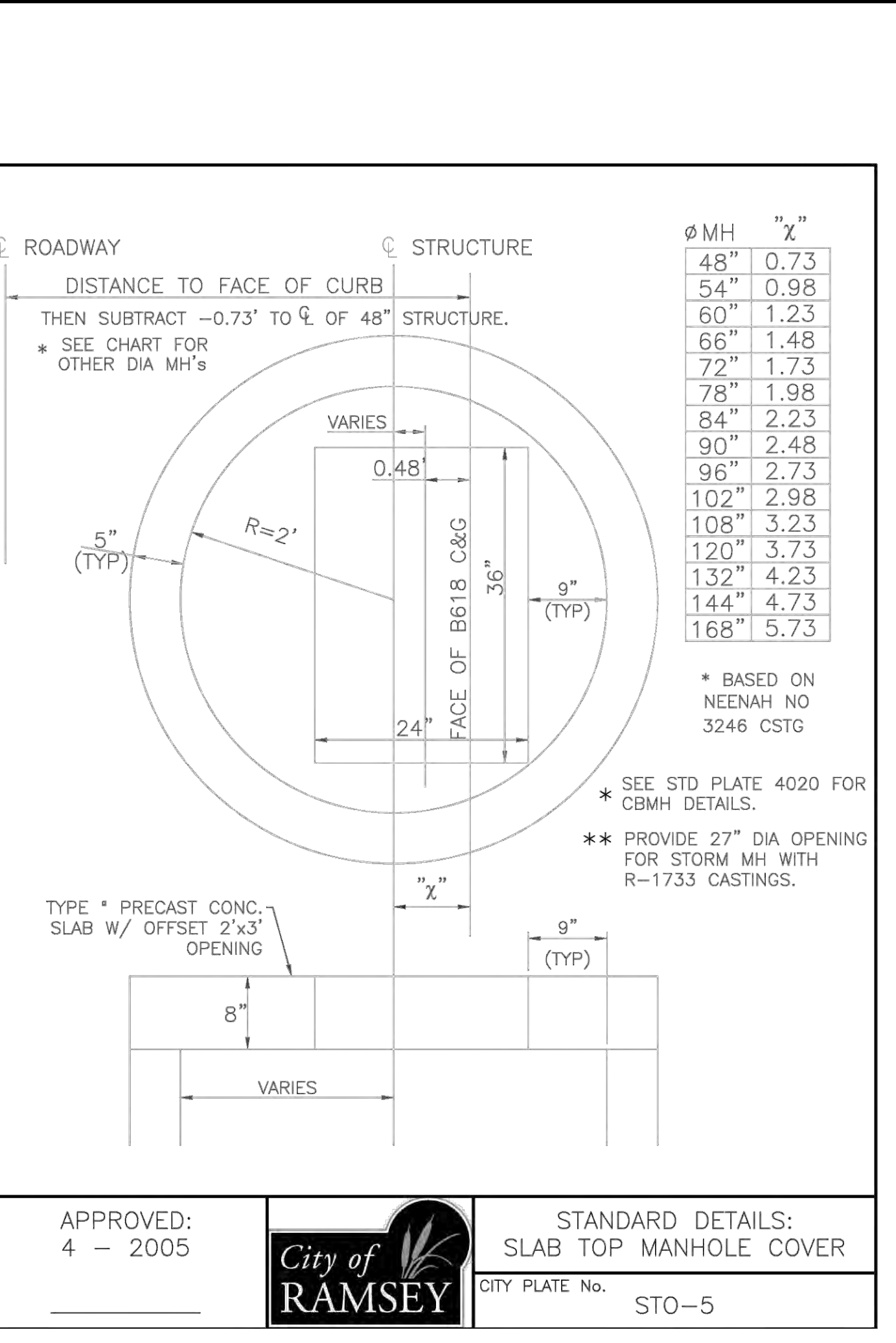
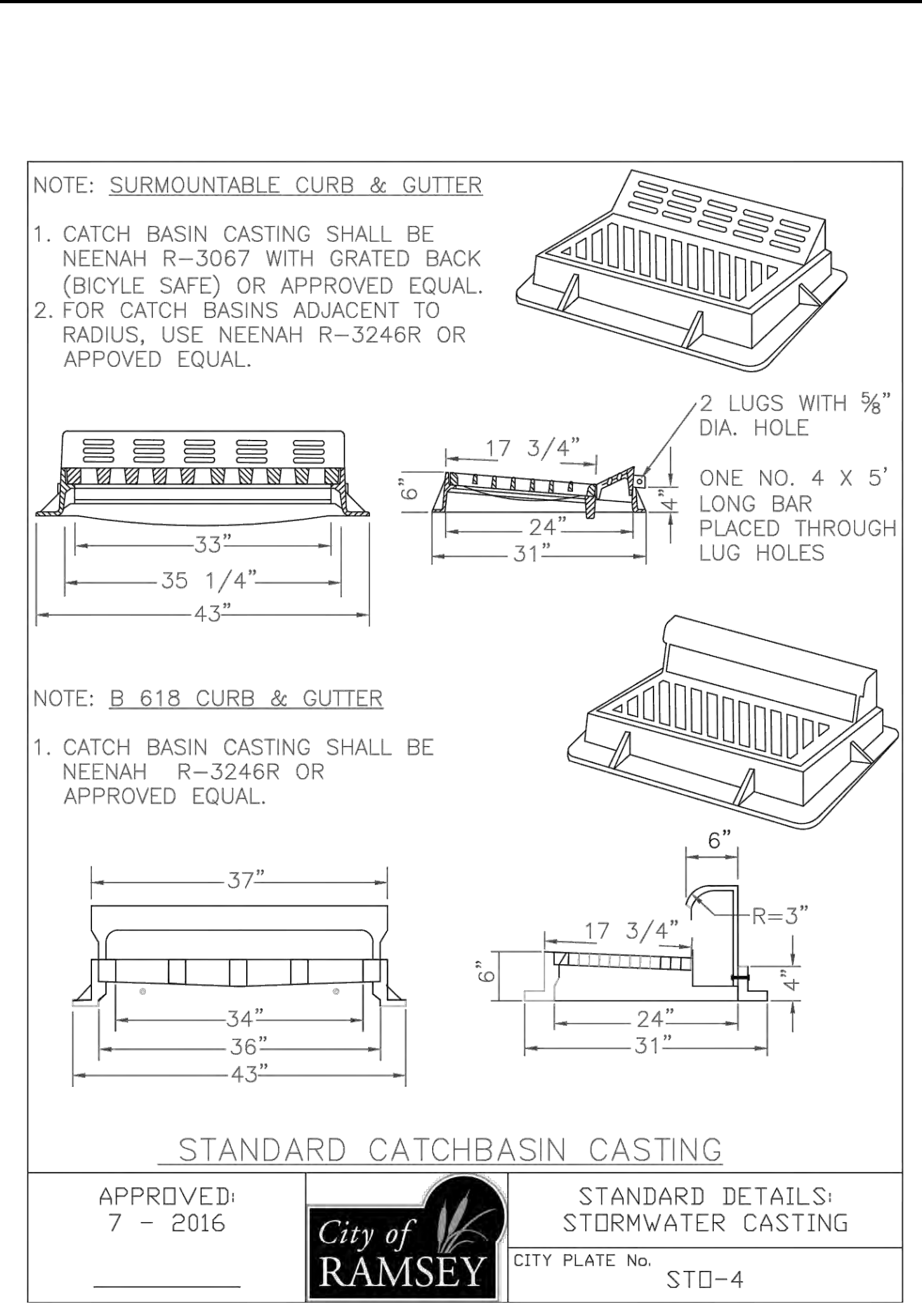


APPROVED: 4 - 2016

**City of RAMSEY**

STANDARD DETAILS: COMMERCIAL DRIVEWAY CURB/CUT

CITY PLATE No. STR-14



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REESE A. SUDELGTGE

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MITCHELL R. WORKMON

DATE: 02/10/2023 LIC. NO. 53748

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PROJECT

**ANOKA RAMSEY ATHLETIC ASSOCIATION DOME**

RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO.	22-26051
FILE NAME	26051 CO-DETAILS
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE

**SITE DETAILS**

SHEET

**C0-21**



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CLIENT PROJECT NO.	-

TITLE

## SITE DETAILS

SHEET

**C0-22**

PRELIMINARY NOT FOR CONSTRUCTION

**SUBMERGED OUTLET**

NOTE:  
1. A 10 GAGE SOLID COPPER TRACER WIRE REQUIRED WITH ALL SEWER LINES.  
2. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE.  
3. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS.  
4. 6" BASE FOR ALL MANHOLES LESS THAN 14FT. DEEP, INCREASE BASE 2" PER 6 FT. OF DEPTH BEYOND 14 FT. 5" PRECAST BASE MAY BE USED FOR MANHOLES LESS THAN 14 FT. DEEP.

APPROVED: 1 - 2006

**City of RAMSEY** CITY PLATE No. ST0-7

STANDARD DETAILS: POND OUTLET

NOTE: GUARDS MUST BE INCORPORATED ON ALL INSTALLATIONS EXCEPT WHERE SPECIFICALLY ALLOWED OTHERWISE BY THE CITY ENGINEER.

**IMPORTANT**

HINGED CONNECTIONS (TO BE FREE OF RIP RAP AND BACKFILL)

ALL GUARDS TO HAVE (1) CROSS BAR - 60" AND UP TO HAVE (2) EQUALLY SPACED

PIPE SIZE	BOLT DIA.	BAR SIZE
12"-24"	5/8"	5/8"
27"-48"	3/4"	3/4"
54"-90"	1"	1"
22"-29"	5/8"	5/8"
36"-59"	3/4"	3/4"
65"-88"	1"	1"

NOTE: COATINGS ARE AS SPECIFIED ELSEWHERE

**IMPORTANT**

APPROVED: 2 - 2006

**City of RAMSEY** CITY PLATE No. ST0-8

STANDARD DETAILS: TRASH GUARD

**SUMP MANHOLE**

NOTE:  
1. A 10 GAGE SOLID COPPER TRACER WIRE IS REQUIRED WITH ALL SEWER LINES.  
2. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE.  
3. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS.  
4. STEPS WILL BE REQUIRED AT A MAXIMUM OF 3' FROM THE RIM AND 16" ON CENTER THEREAFTER.  
5. 8" BASE FOR ALL MANHOLES LESS THAN 14' DEEP, INCREASE BASE THICKNESS BY 2" PER 6' OF DEPTH BEYOND 14' & REINFORCE WITH 6" X 6" & 10" X 10" MESH.

APPROVED: 1 - 2016

**City of RAMSEY** CITY PLATE No. ST0-9

STANDARD DETAILS: SUMP MANHOLE

**STORM SEWER PILING & CONCRETE END SECTION**

NOTE: TRASH GUARDS SEE DETAIL ST0-12

NOTE: FOR USE WITH PIPE 36" DIA. OR GREATER

NOTE: BRING CONCRETE HEADWALL UP TO A POINT THAT WILL NOT HINDER THE OPERATION OF THE TRASH GUARD.

NOTE: LIGHTWEIGHT SHEET PILE ASTM-A-857, GR. 33&36

NOTE: 16.9 LBS PER LINEAL FOOT 0.209 NOMINAL THICKNESS

APPROVED: 9 - 2016

**City of RAMSEY** CITY PLATE No. ST0-10

STANDARD DETAILS: STORM SEWER PILING & CONCRETE END SECTION

**STANDARD DETAIL**

NOTE:  
1. A 10 GAGE SOLID COPPER TRACER WIRE IS REQUIRED WITH ALL SEWER LINES.  
2. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE.  
3. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS.  
4. 6" BASE FOR ALL MANHOLES LESS THAN 14 FT. OF DEPTH, INCREASE BASE THICKNESS 2" PER 6 FT. OF DEPTH BEYOND 14 FT.  
5. 5" PRECAST BASE MAY BE USED FOR MANHOLES LESS THAN 14 FT. DEEP.  
6. ALL INVERTS TO BE 0.10' ABOVE OUTLET.

APPROVED: 1 - 2016

**City of RAMSEY** CITY PLATE No. SEW-1

STANDARD DETAILS: SANITARY MANHOLE

**WOOD TIGHT CASTING**

NOTE: NOT TO SCALE

APPROVED: 11 - 2015

**City of RAMSEY** CITY PLATE No. SEW-2

STANDARD DETAILS: WOOD TIGHT CASTING

**MAIN 13' DEEP OR LESS**

**MAIN MORE THAN 13' DEEP**

NOTE:  
1. A 10 GAGE SOLID COPPER TRACER WIRE IS REQUIRED WITH ALL SEWER LINES.  
2. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE.  
3. TRACER WIRE ARE TO END IN STRUCTURES, AT FINISHED GRADE ON ALL SERVICES AND STUBS.

APPROVED: 4 - 2016

**City of RAMSEY** CITY PLATE No. SEW-3

STANDARD DETAILS: SANITARY SEWER SERVICE

**SLAB-TOP MANHOLE**

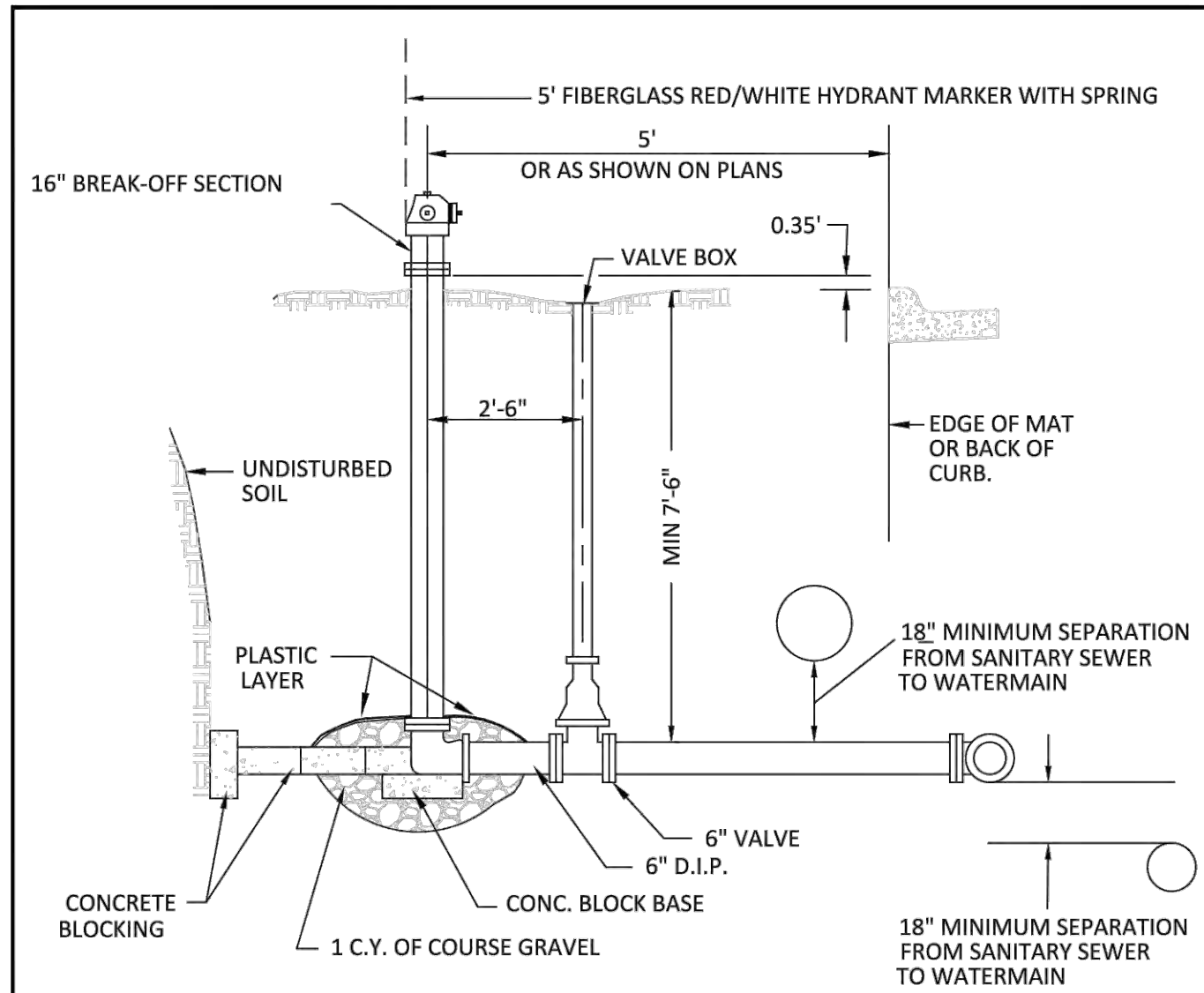
NOTE:  
1. A 10 GAGE SOLID COPPER TRACER WIRE IS REQUIRED WITH ALL SEWER LINES.  
2. CONDUCTIVITY IS REQUIRED ON ALL TRACER WIRE.  
3. TRACER WIRES ARE TO END IN STRUCTURES, AT FINISHED GARDE ON ALL SERVICES AND STUBS.

APPROVED: 4 - 2016

**City of RAMSEY** CITY PLATE No. SEW-4

STANDARD DETAILS: SLAB-TOP MANHOLE

PLOT DATE: 2/6/2023 11:17 PM



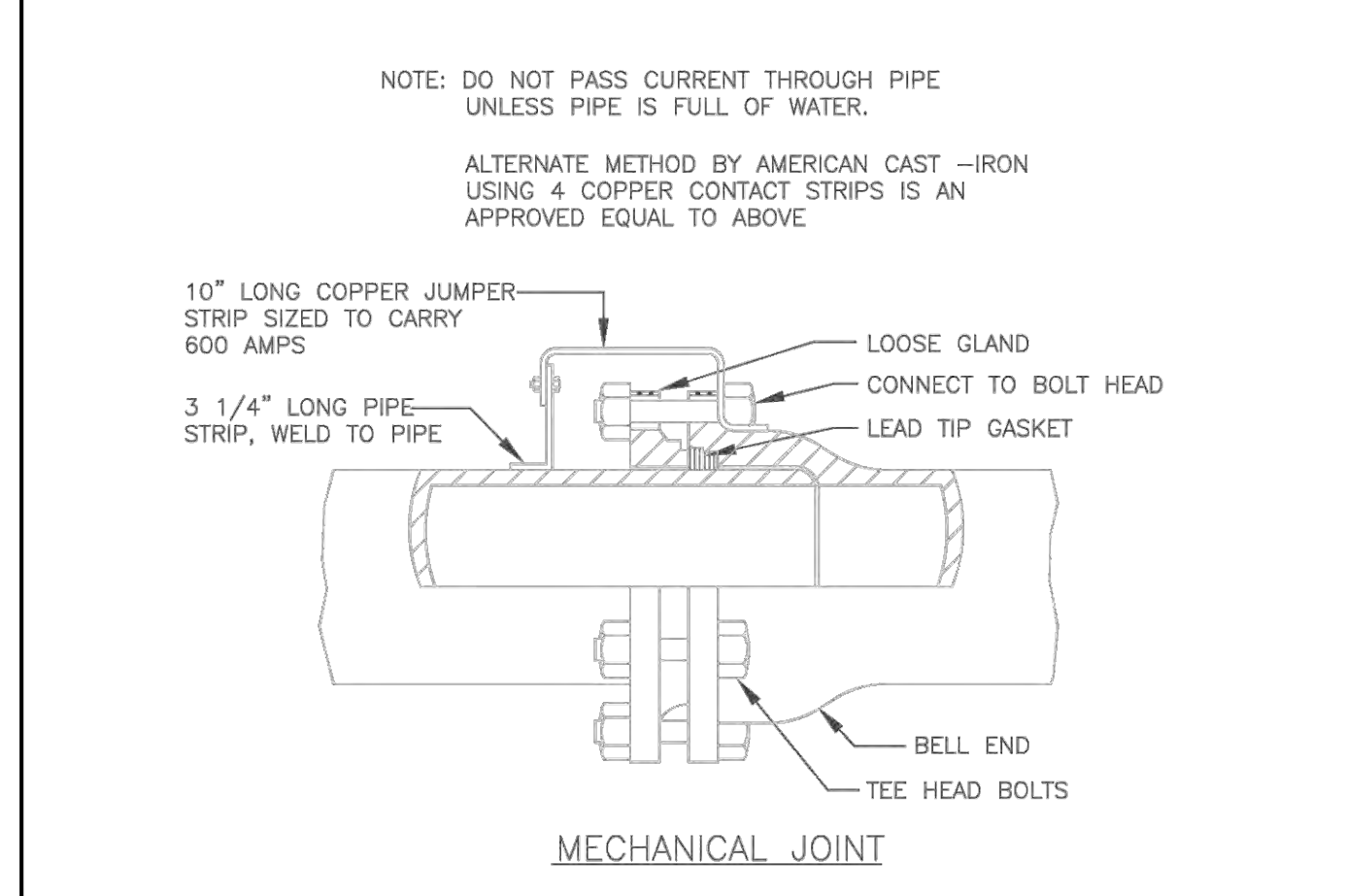
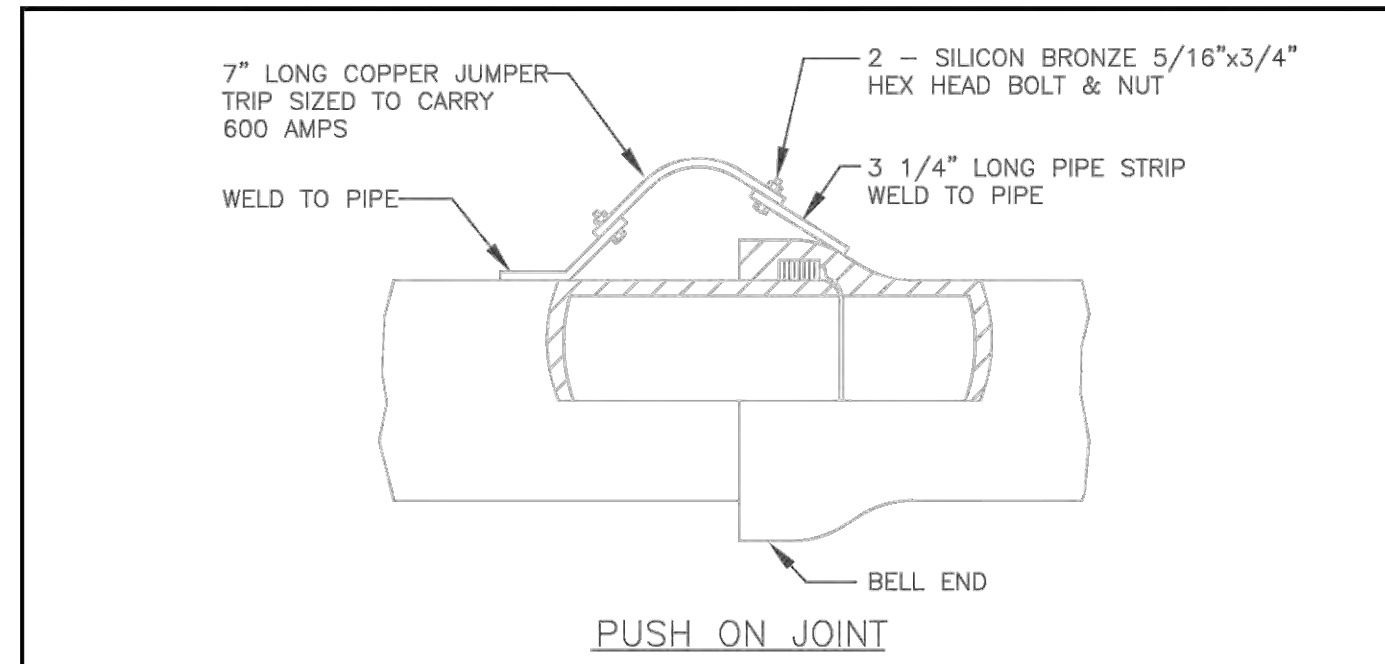
- NOTES:
- HYDRANT SHALL BE 5-1/4" WB67 WATEROUS PACER OR APPROVED EQUAL.
  - HYDRANTS TO BE ORDERED FOR 8'-0" BURY. IN AREAS OF EXTRA DEPTH ON THE WATERMAIN, HYDRANTS EXTENSIONS MAY BE REQUIRED.
  - HYDRANTS SHALL BE BLOCKED OR TIED TO THE TEE AT MAIN WITH 2-3/4" DIAMETER TIE RODS. ALL TIE RODS TO BE COAL TAR COATED AFTER INSTALLATION. RESTRAINED JOINT PIPE AND RETAINING GLANDS MAY BE USED.
  - TOP NUT OF HYDRANT 2.5' ABOVE TOP BACK OF CURB OR BITUMINOUS SURFACE.
  - HYDRANTS BURIED BELOW WATER TABLE, DRAIN HOLES NEED TO BE PLUGGED AND HYDRANT MARKED BY PAINTING 5" CAP YELLOW.
  - BRUSH PAINT ALL HYDRANTS AFTER INSTALLATION IS COMPLETE.
  - PUMPER NOZZLE .5-75" O.D. X 4 T.P.I., HOSE NOZZLE 3.06" O.D. X 7 T.P.I.

APPROVED: 3 - 2022

**City of RAMSEY**

STANDARD DETAILS: HYDRANT

CITY PLATE No. WAT-1

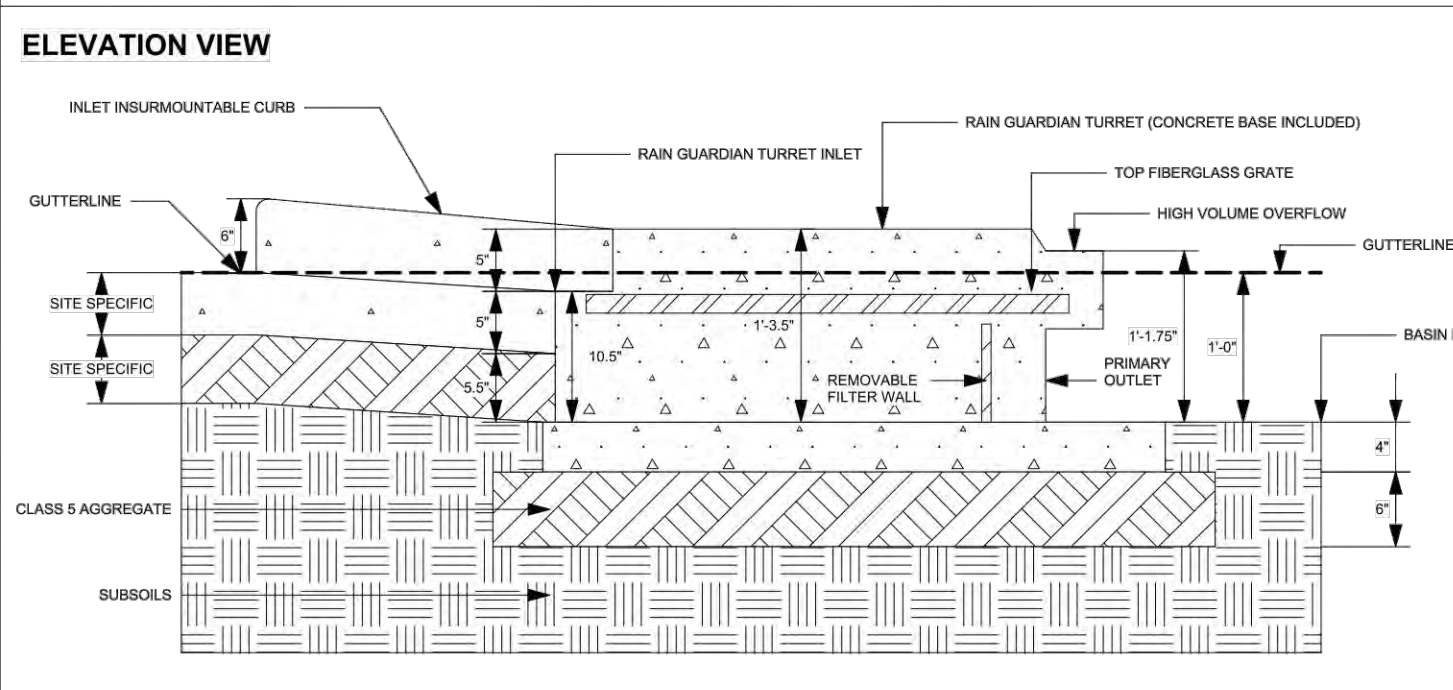
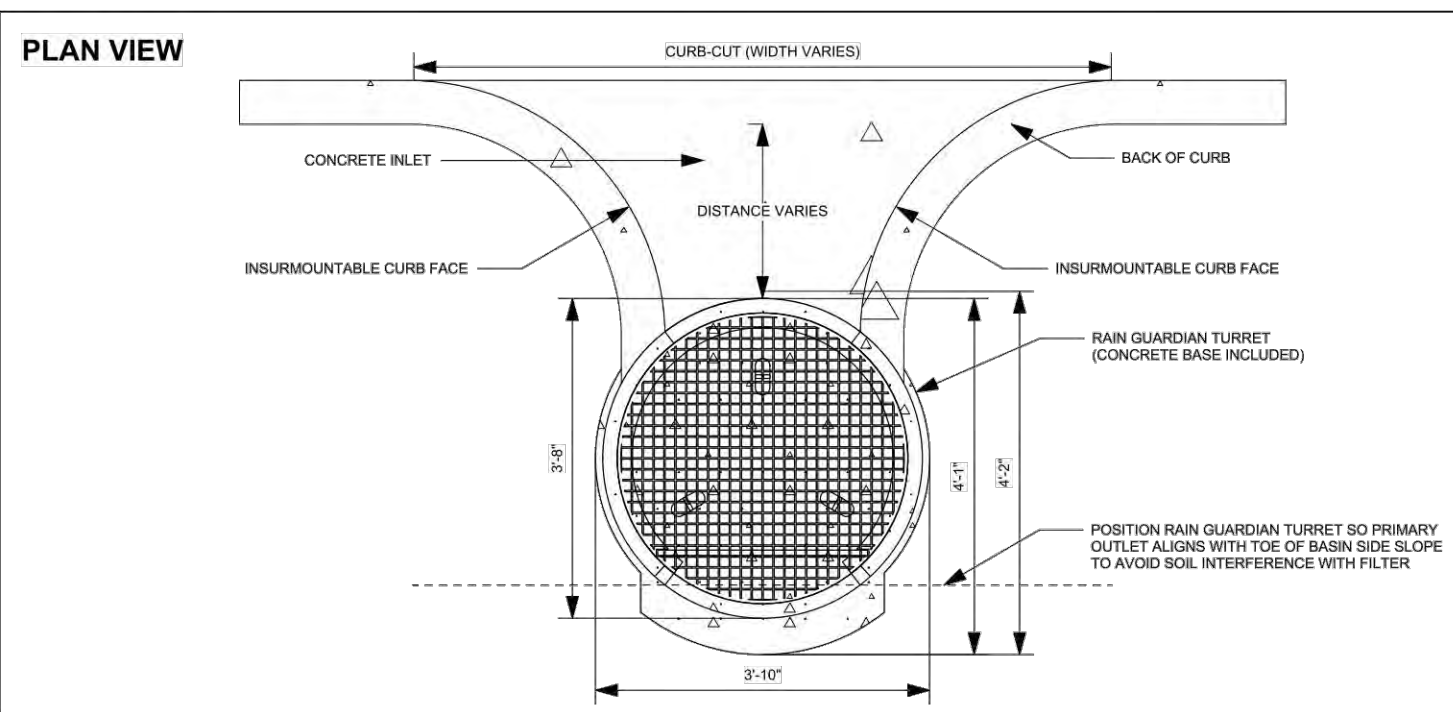


APPROVED: 1 - 2016

**City of RAMSEY**

STANDARD DETAILS: JOINT CONNECTION

CITY PLATE No. WAT-4



**RAIN GUARDIAN TURRET**

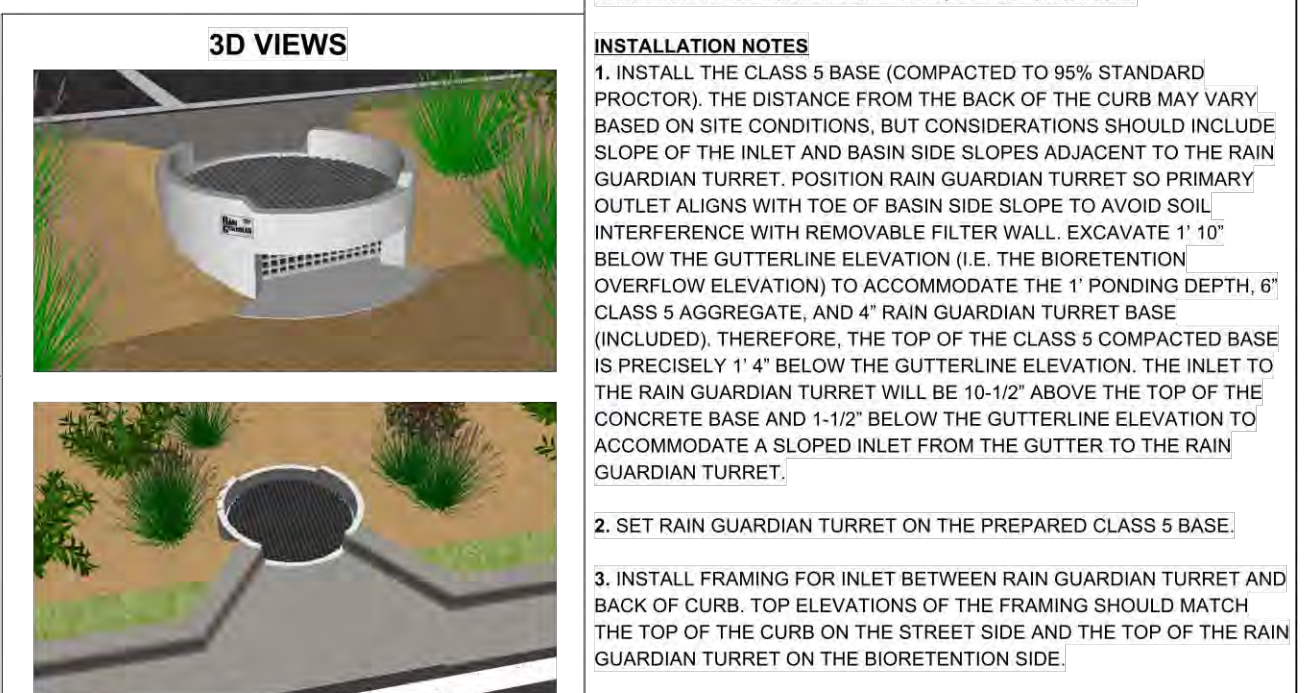
**PRETREATMENT CHAMBER**

**BIORETENTION PONDING DEPTH: 1'**

**TYPICAL DETAIL**

**RAIN GUARDIAN**  
U.S. PATENT NOS. 8,911,916 AND 8,958,804  
PRETREATMENT FOR BIORETENTION  
Rain Gardens • Swales • Filtration Basins • Infiltration Basins  
www.RainGuardian.biz

- PLAN VIEW NOTES
- INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN TURRET MAY VARY WITH SITE CONDITIONS.
  - CONCRETE BASE EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN TURRET TO SERVE AS A SPLASH DISSIPATOR.



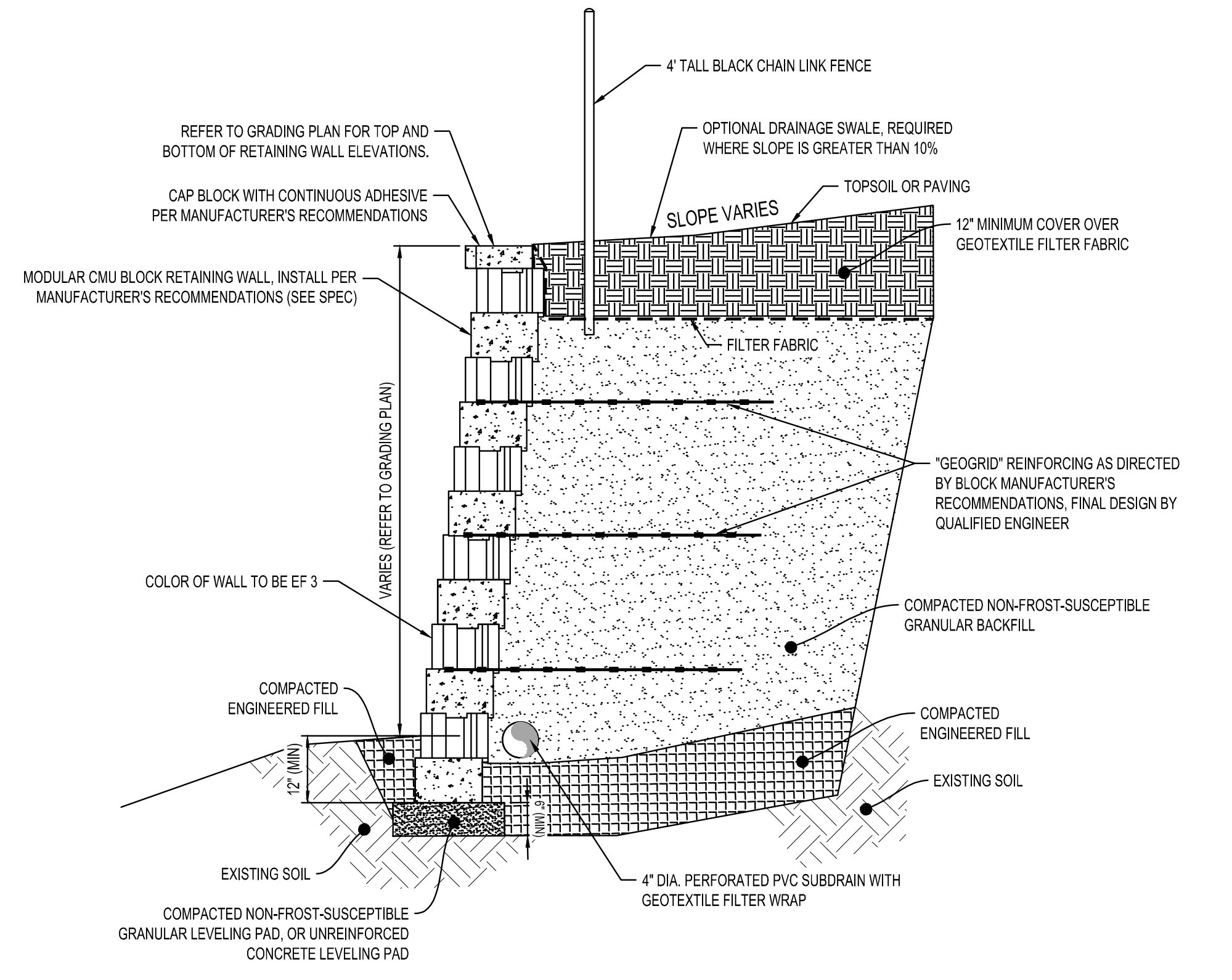
- ELEVATION VIEW NOTES
- THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR) IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION.
  - THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR) IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION.

REVISION HISTORY

REV	BY	DATE	DESCRIPTION
A	MMH	11/16/2022	TURRET - 1'

DEVELOPED BY: **ANOKA RAMSEY ATHLETIC ASSOCIATION**

MANUFACTURED BY: **Stoneworks**



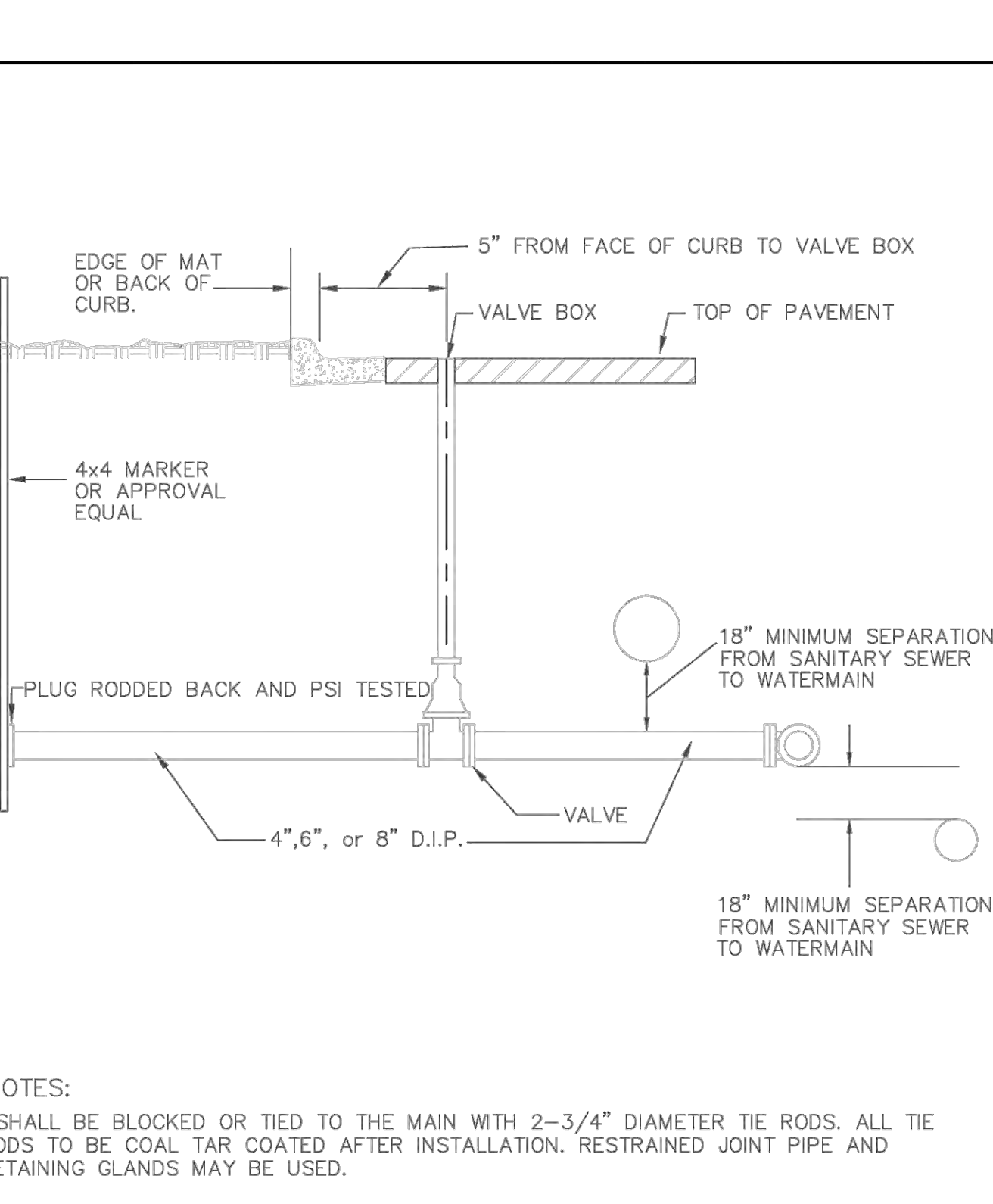
- CONSTRUCTION NOTES:
- A. SPECIFICATIONS
- SEGMENTAL RETAINING WALL UNITS SHALL BE FURNISHED AND CONSTRUCTED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS.
    - MODULAR CONCRETE UNITS SHALL MEET THE REQUIREMENTS OF ASTM C1372, ASTM C90, ASTM C145, WITH 28-DAY STRENGTH OF 3,000 PSI AND LESS THAN 8% MOISTURE ABSORPTION.
    - LEVELING PAD AGGREGATE BASE SHALL BE CRUSHED STONE OR CONCRETE, OR GRANULAR FILL WITH A GRADATION OF 100% PASSING 1 INCH, 35%-70% PASSING #4, 10%-35% PASSING #10, AND 3%-10% PASSING #20.
    - NON-FROST-SUSCEPTIBLE GRANULAR BACKFILL SHALL BE CRUSHED STONE OR CONCRETE, OR GRANULAR FILL WITH A GRADATION OF 100% PASSING 1 INCH, 75%-100% PASSING 3/4", <80% PASSING #4, <35% PASSING #10, AND <5% PASSING #20.
    - ENGINEERED FILL SHALL BE SOILS WITH A PLASTICITY INDEX LESS THAN 6 PER ASTM D4318, UNSUITABLE SOILS INCLUDE ORGANIC AND UNIFIED SOIL CLASSIFICATION SYSTEM GROUPS OF SC, CL, ML, CH, OH, MH, OL, OR PT.
  - CONCRETE SHALL BE NORMAL WEIGHT, UNO, AND MEET THE FOLLOWING CRITERIA.
    - $f_c = 3,000$  psi
    - 6% +/- 1.5% AIR ENTRAINMENT
    - 0.55 MAXIMUM WATER-TO-CEMENT RATIO
    - CEMENT SHALL CONFORM TO ASTM C150, TYPE III
    - READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED ACCORDANCE WITH ASTM C94.
  - FOUNDATION NET ALLOWABLE SOIL BEARING PRESSURE IS 1,500 PSF (PRESUMED), AND SHALL BE VERIFIED IN FIELD BY GEOTECHNICAL ENGINEER.
    - THE DESIGN FROST PENETRATION DEPTH FOR UNHEATED STRUCTURES IS 60 INCHES, PROTECT FOUNDATION EXCAVATIONS FROM FROST; DO NOT PLACE CONCRETE ON FROZEN GROUND.
    - FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL, STANDING WATER, AND SHALL BE INSPECTED BEFORE THE PLACEMENT OF ANY CONCRETE.
- B. SUBMITTALS:
- PRIOR TO SUBMITTAL, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL STAMP AND SIGN THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER.
  - THE CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR PROPRIETARY MATERIAL AND ITEMS, INCLUDING FORMING ACCESSORIES, ADMIXTURES, PATCHING COMPOUNDS, SEALANTS, WATERSTOPS, JOINT SYSTEMS, CURING COMPOUNDS, AND OTHERS IN AND FOR CONSTRUCTION.
  - THE FABRICATOR SHALL CLEARLY HIGHLIGHT/CLOUD ANY CHANGES MADE IN THE SHOP DRAWINGS WHICH DO NOT COMPLY WITH DESIGN DRAWINGS, ANY CHANGES MUST BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
  - CONTRACTOR TO SUBMIT THE FOLLOWING DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION OF SIGN.
    - CONCRETE MIX DESIGNS
    - MODULAR CONCRETE RETAINING WALL
    - ADDITIONAL SHOP DRAWINGS REQUESTED IN THE SPECIFICATIONS.
  - A COPY OF ALL SHOP DRAWINGS SHALL BE MAINTAINED ON SITE AT ALL TIMES.
- C. QUALITY CONTROL AND QUALITY ASSURANCE:
- COORDINATE FOR ENGINEER OR OWNER'S INDEPENDENT TESTING AGENCY TO INSPECT AND APPROVE REINFORCING STEEL AND EMBEDS PRIOR TO ORDERING CONCRETE.
  - COORDINATE FOR OWNER'S INDEPENDENT TESTING AGENCY TO BE ON SITE AND PERFORM CONTINUOUS INSPECTION WHILE CONCRETE PLACEMENT IS OCCURRING. PROVIDE NOTICE NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE PLACEMENT.
  - COORDINATE WITH OWNER'S INDEPENDENT TESTING AGENCY TO SAMPLE CONCRETE AT TIME OF PLACEMENT IN ORDER TO PERFORM SLUMP, AIR, TEMPERATURE AND CASTING OF CYLINDERS.
  - THE SPECIAL INSPECTOR SHALL DETERMINE COMPLIANCE WITH THE SOIL REPORT FOR SITE PREPARATION, FILL PLACEMENT AND DENSITY TESTS.
  - ANY AND ALL WORK PERFORMED WITHOUT PROPER INSPECTION AND TESTING AS OUTLINED IN THIS SPECIFICATION WILL BE CONSIDERED UNAUTHORIZED WORK. ANY CORRECTIVE MEASURES REQUIRED OF THE UNAUTHORIZED WORK WILL BE AT CONTRACTORS OWN EXPENSE.

APPROVED: 1 - 2016

**City of RAMSEY**

STANDARD DETAILS: COMMERCIAL SERVICE

CITY PLATE No. WAT-5



APPROVED: 1 - 2016

**City of RAMSEY**

STANDARD DETAILS: COMMERCIAL SERVICE

CITY PLATE No. WAT-5



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RAMSEY MINNESOTA

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DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE

**SITE DETAILS**

SHEET

**C0-23**



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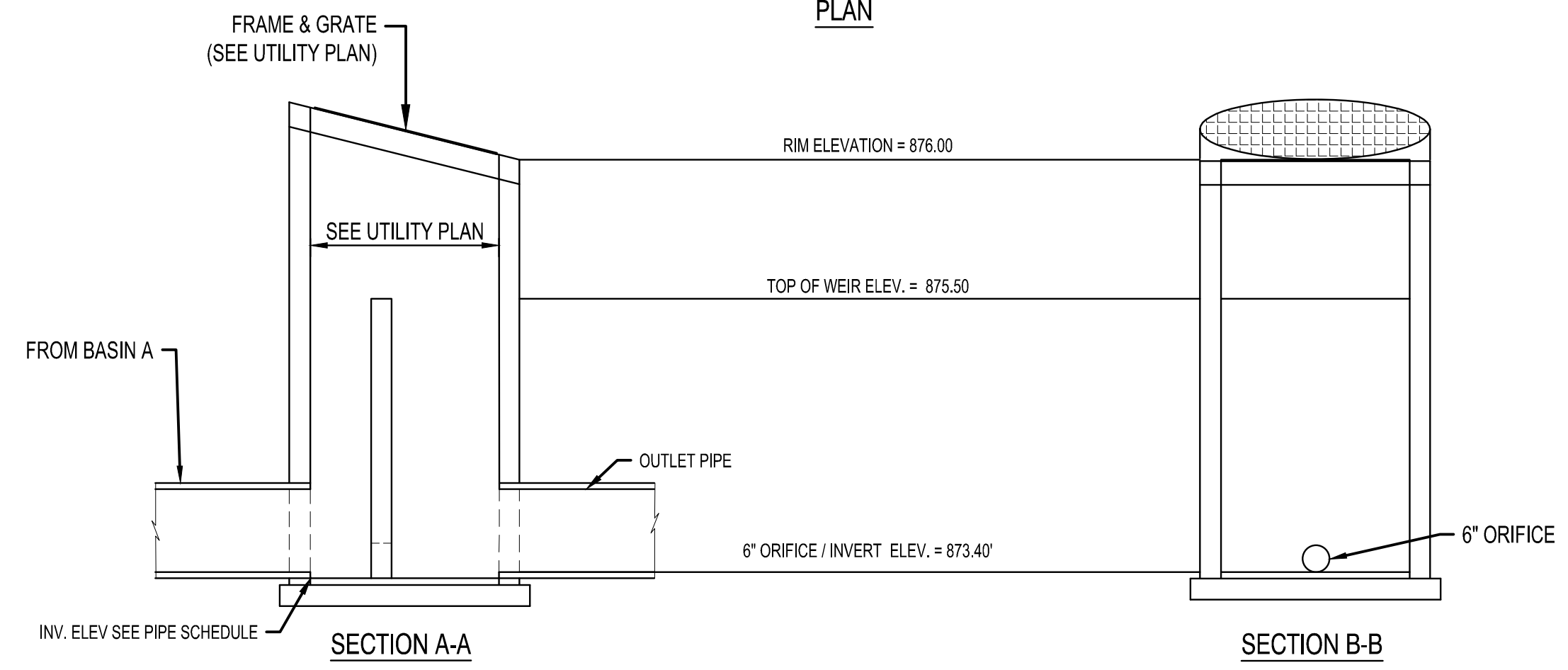
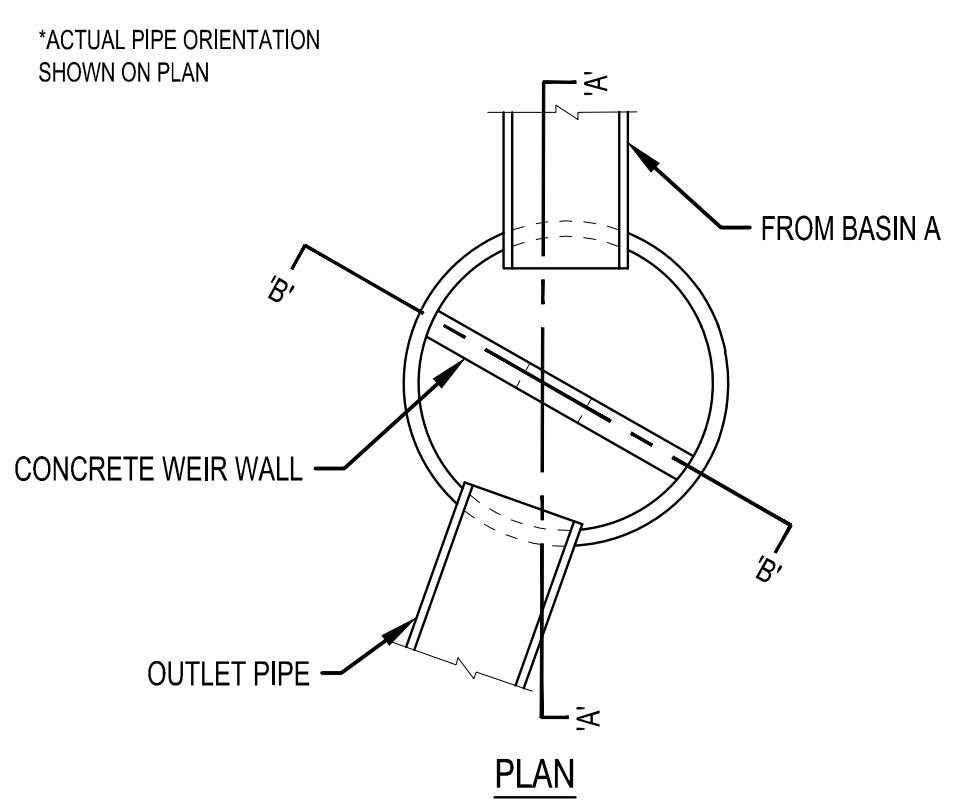
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**SITE DETAILS**

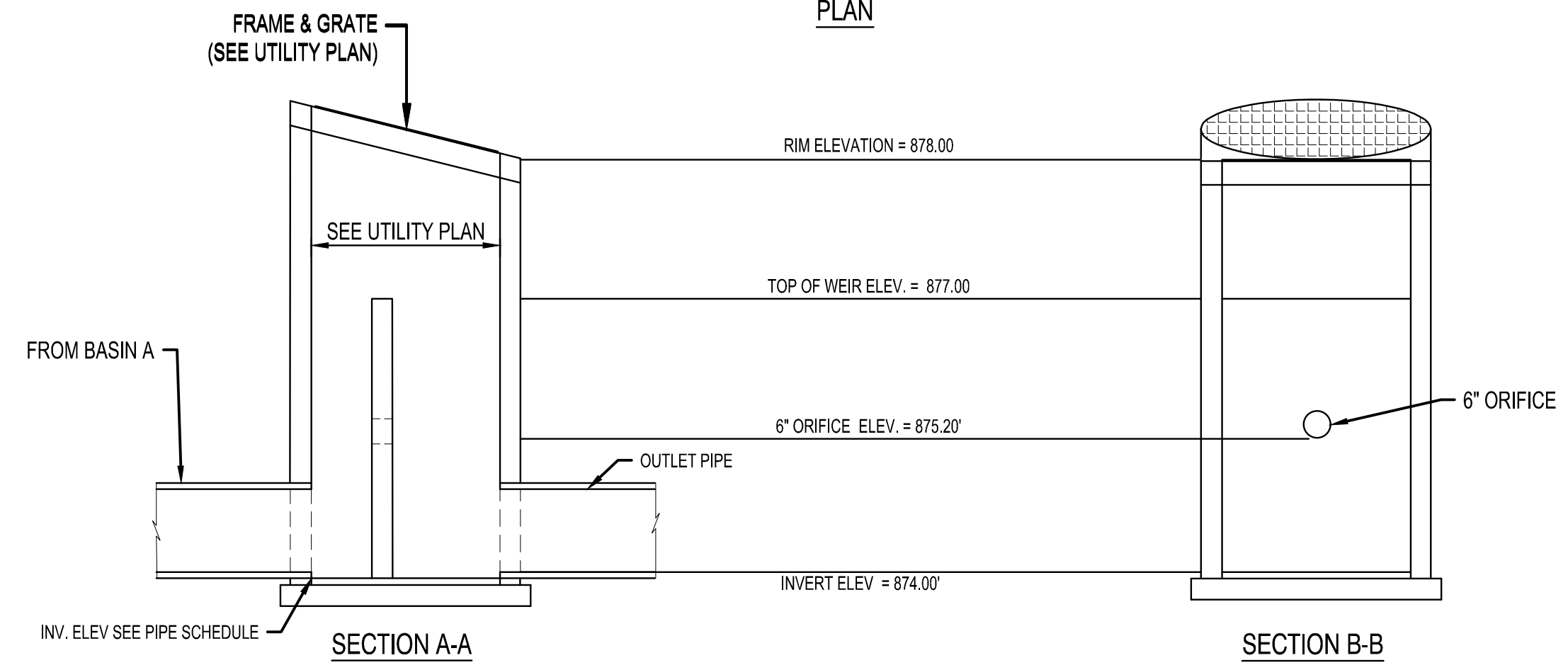
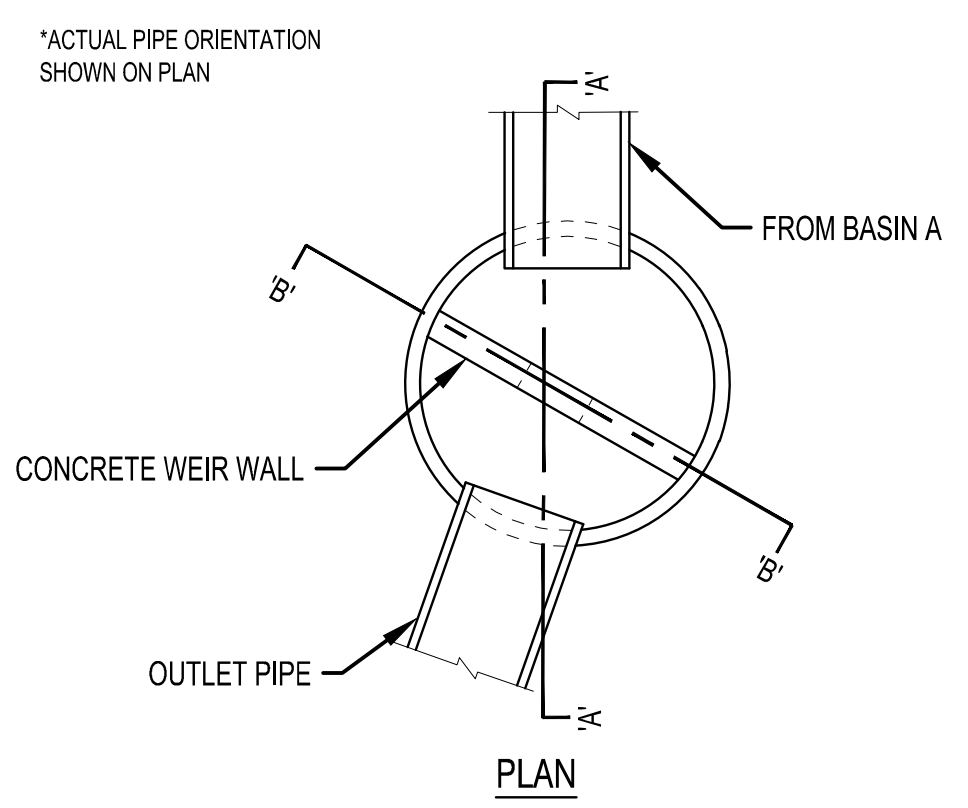
SHEET

**C0-24**

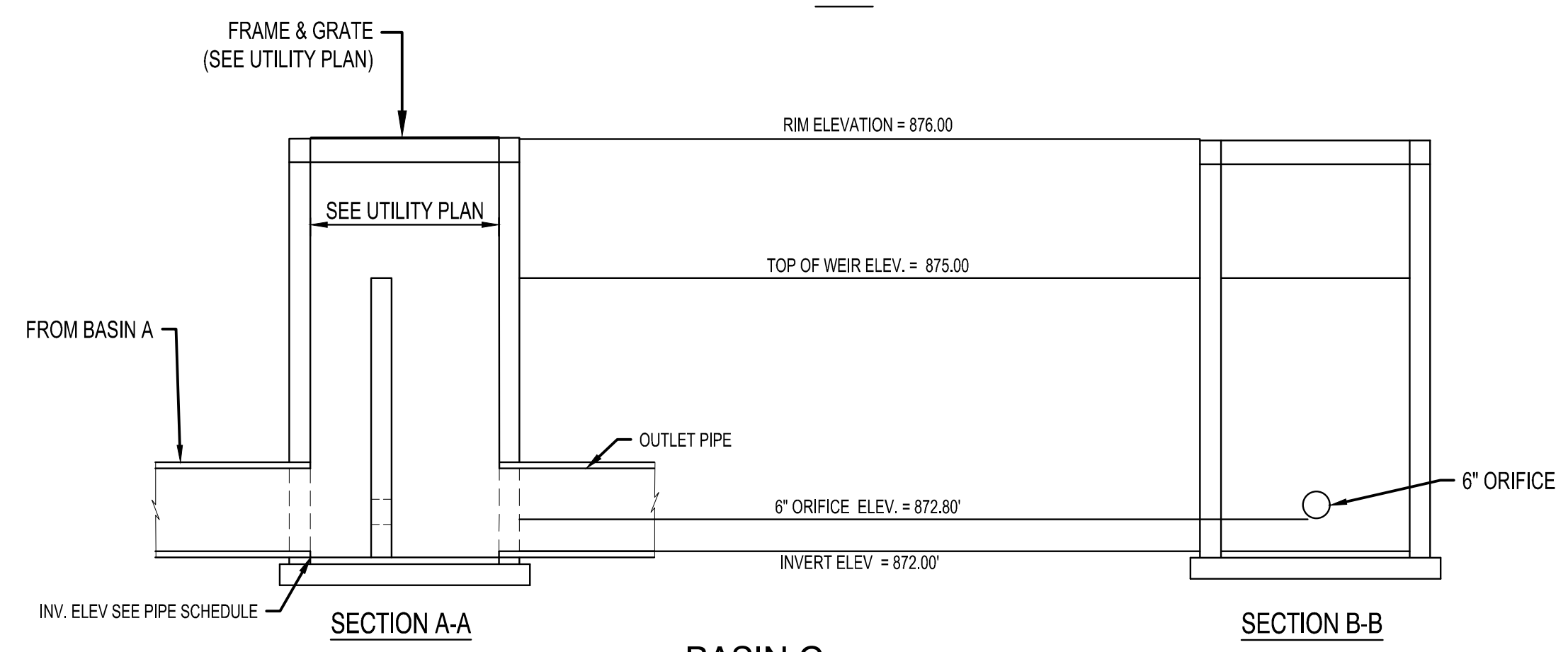
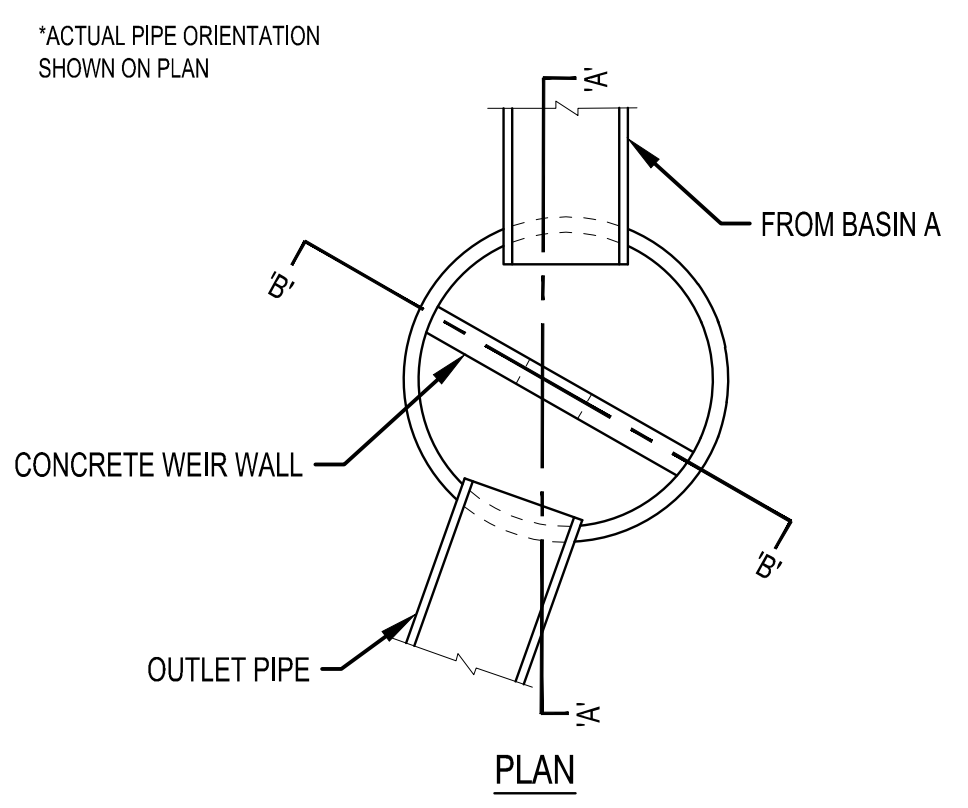
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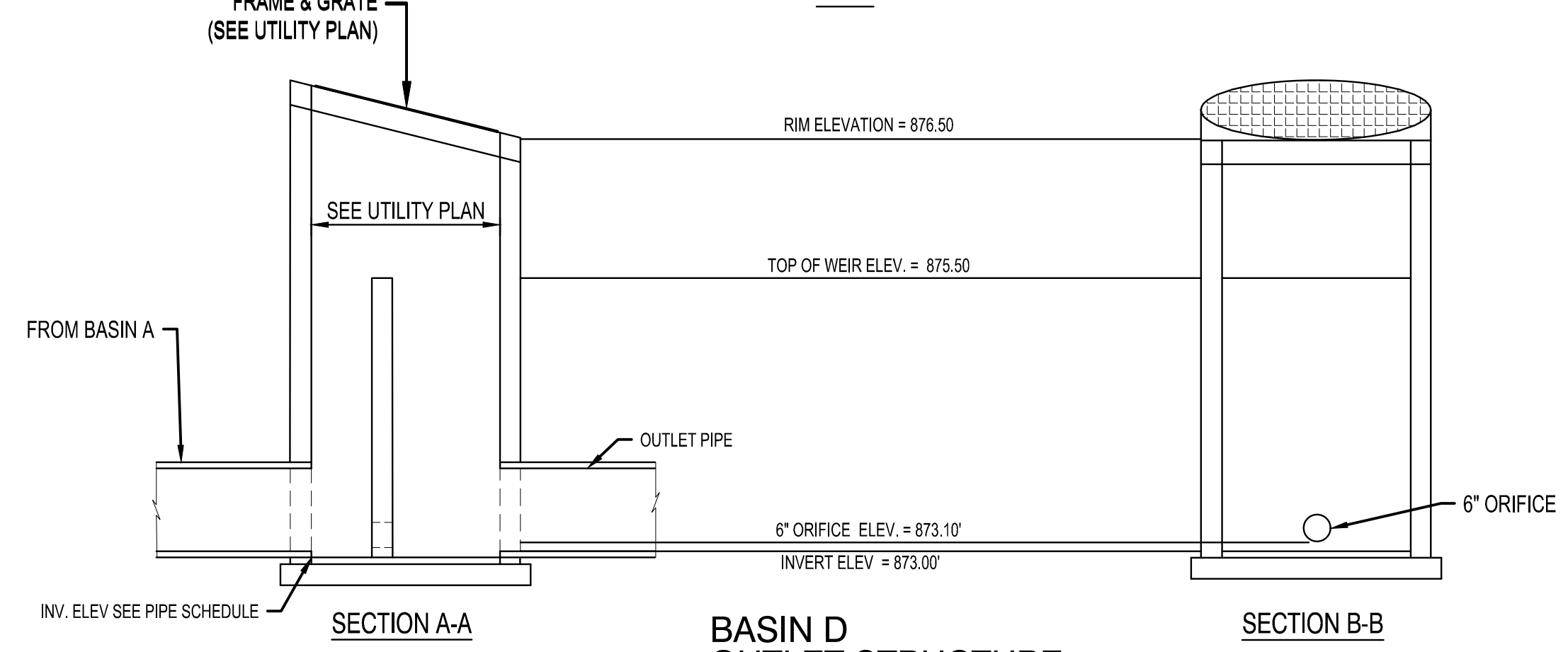
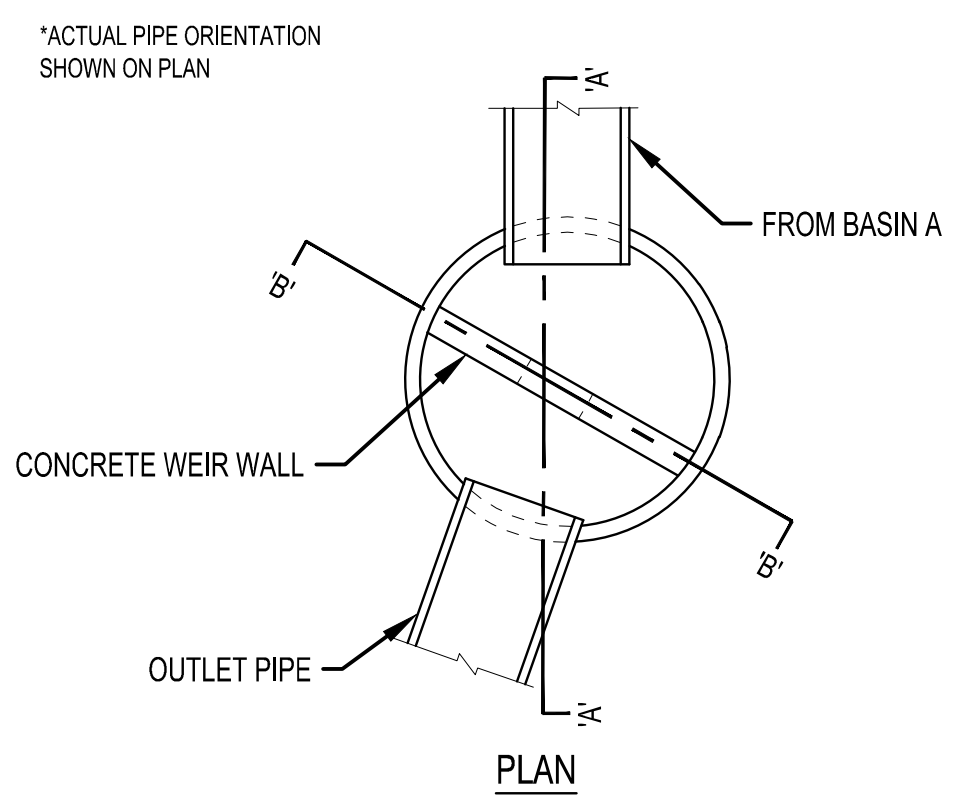
**BASIN A  
OUTLET STRUCTURE**  
NTS



**BASIN B  
OUTLET STRUCTURE**  
NTS



**BASIN C  
OUTLET STRUCTURE**  
NTS



**BASIN D  
OUTLET STRUCTURE**  
NTS

PLOT DATE: 2/6/2023 1:18 PM