

CITY OF RAMSEY, MN

CIVIL CONSTRUCTION PLANS FOR

PARKVIEW EAST APARTMENT COMPLEX

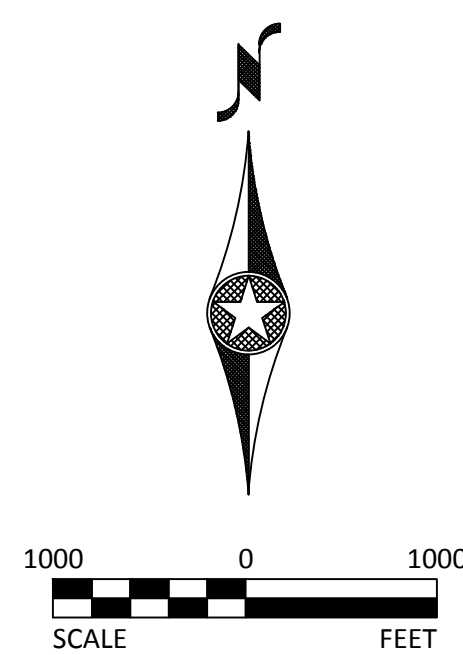
GRADING, AGGREGATE BASE, SANITARY SEWER, WATERMAIN, STORM SEWER,
PEDESTRIAN CURB RAMPS, CONCRETE SIDEWALK, & BITUMINOUS SURFACING.
MAY, 2015



SHEET INDEX

SHEET NO.	TITLE
C.0	TITLE SHEET
C1.0	LEGEND
C1.1 - C1.5	DETAILS
C1.6	TYPICAL SECTIONS
C1.7	INTERSECTION DETAILS AND CONSTRUCTION NOTES
C2.0	SWPPP
C2.1	SWPPP
C2.2	SWPPP
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C2.4	SITE PLAN
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C2.6	EROSION CONTROL PLAN
C2.7	STORM UNDERGROUND STORAGE
C2.8	LANDSCAPE/TREE PLAN
C3.0	PLAN AND PROFILE - 145TH AVENUE NW
C3.1	PLAN AND PROFILE - PARKVIEW SITE
C3.2	STORM PROFILES - PARKVIEW SITE

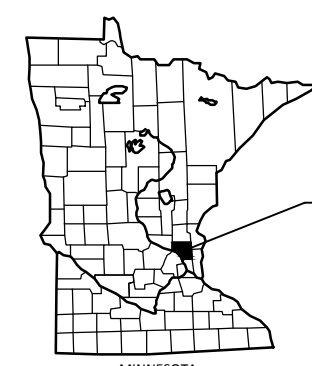
THIS PLAN CONTAINS 21 SHEETS



MAP OF THE
CITY OF RAMSEY
ANOKA COUNTY, MN

SCALES

PLAN	0'	20'
PROFILE	0'	20'
	HORIZ.	
	0'	5'
	VERT.	
INDEX MAP	0'	500'



PROJECT LOCATION
ANOKA COUNTY, MN

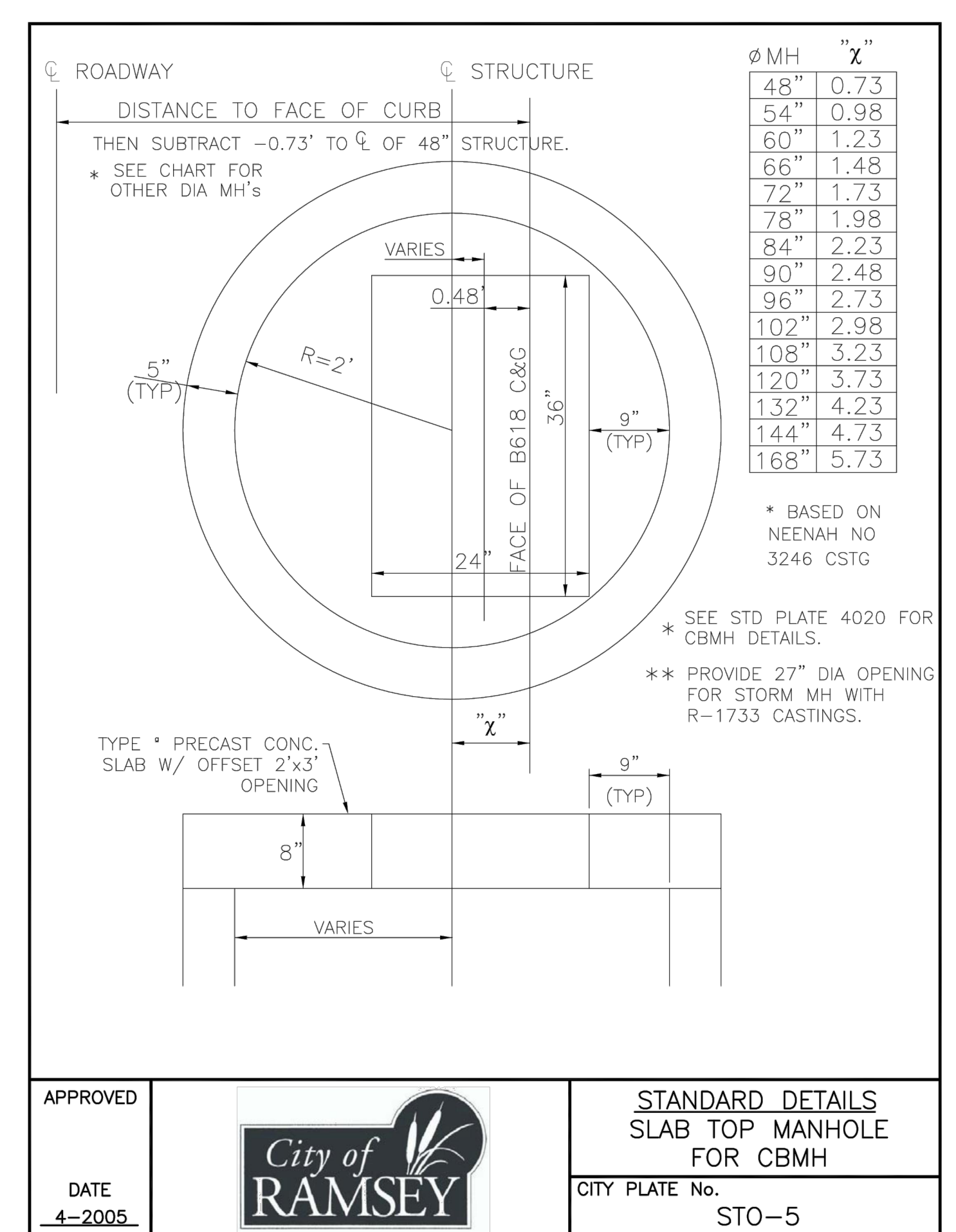
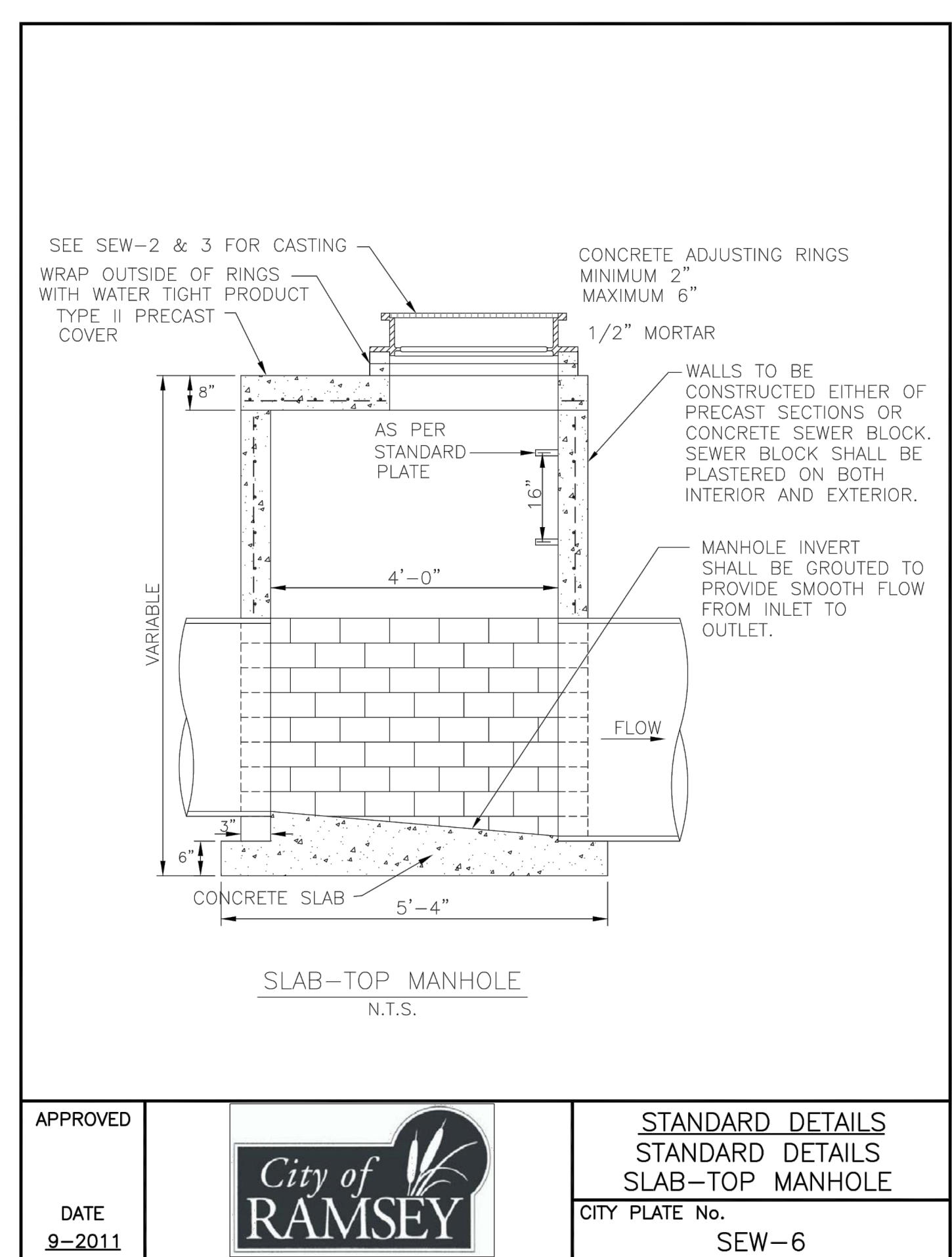
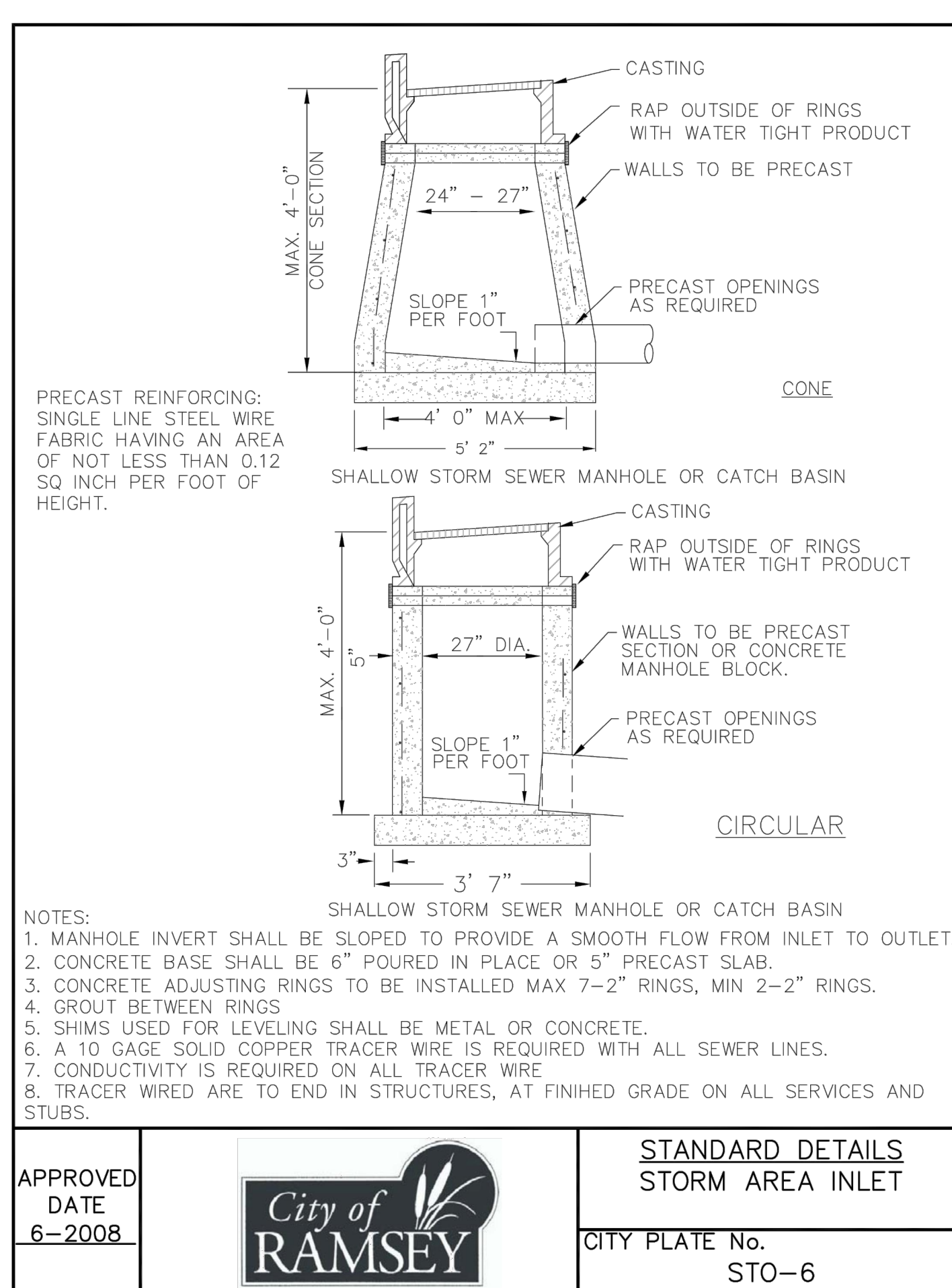
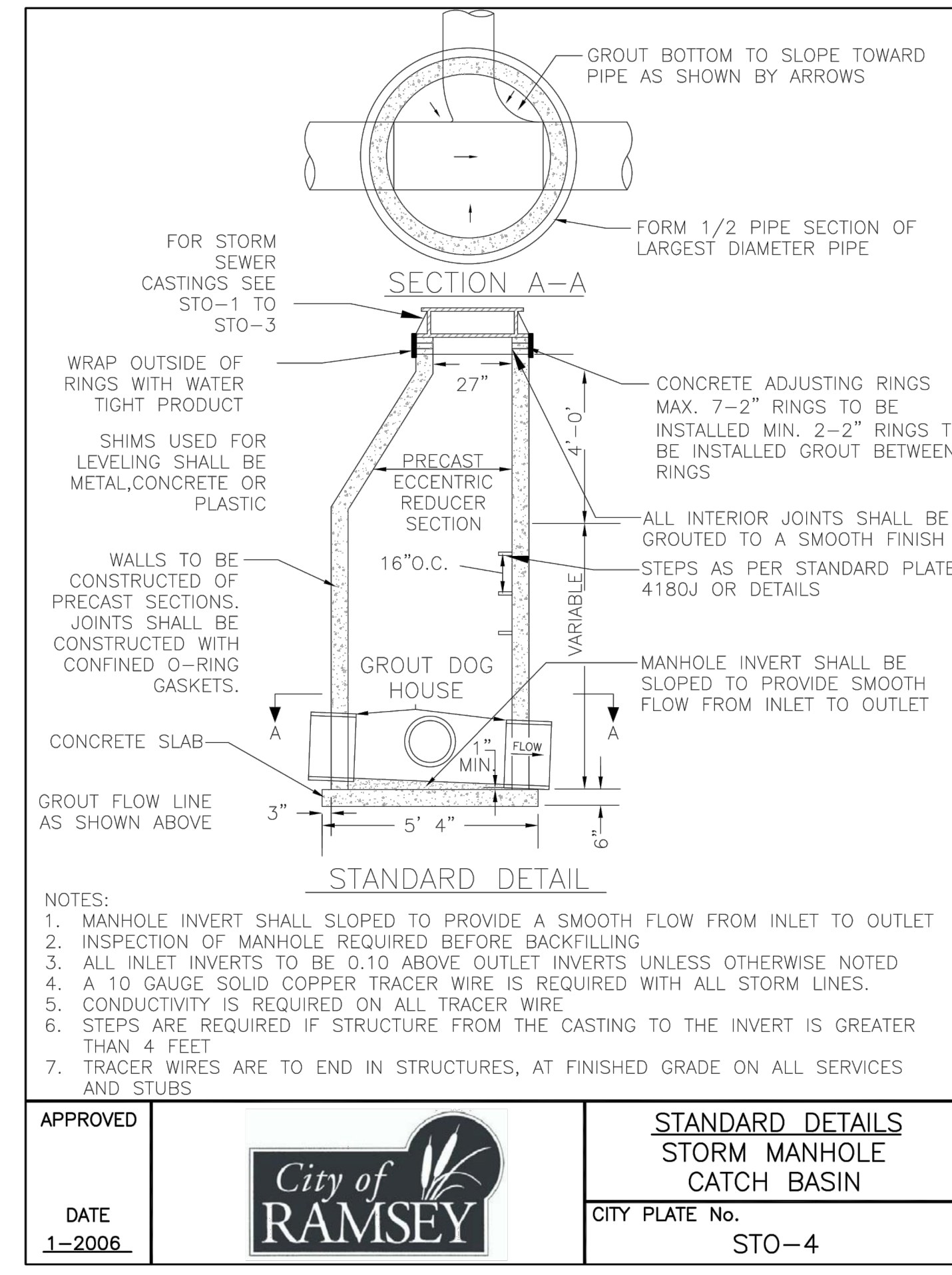
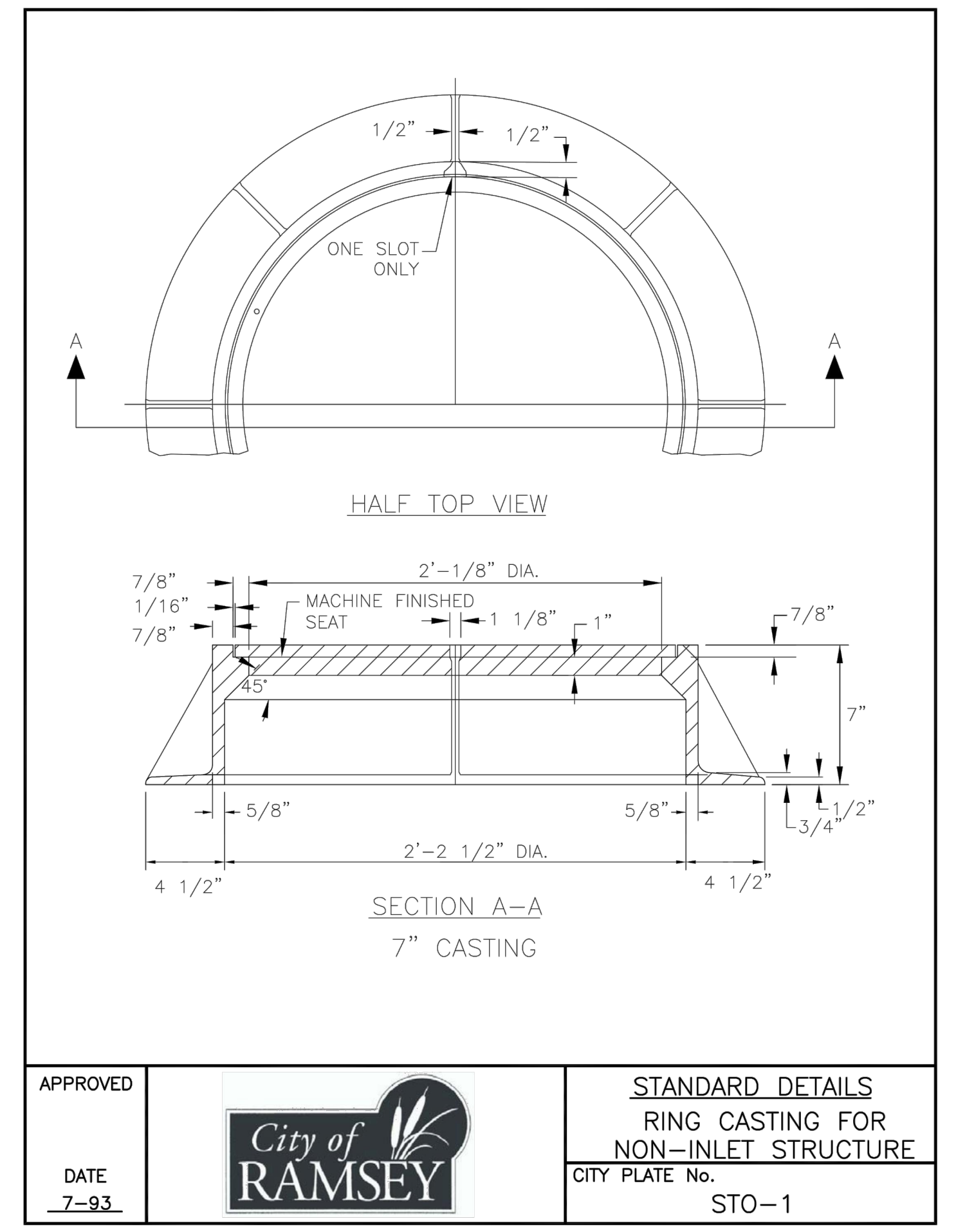
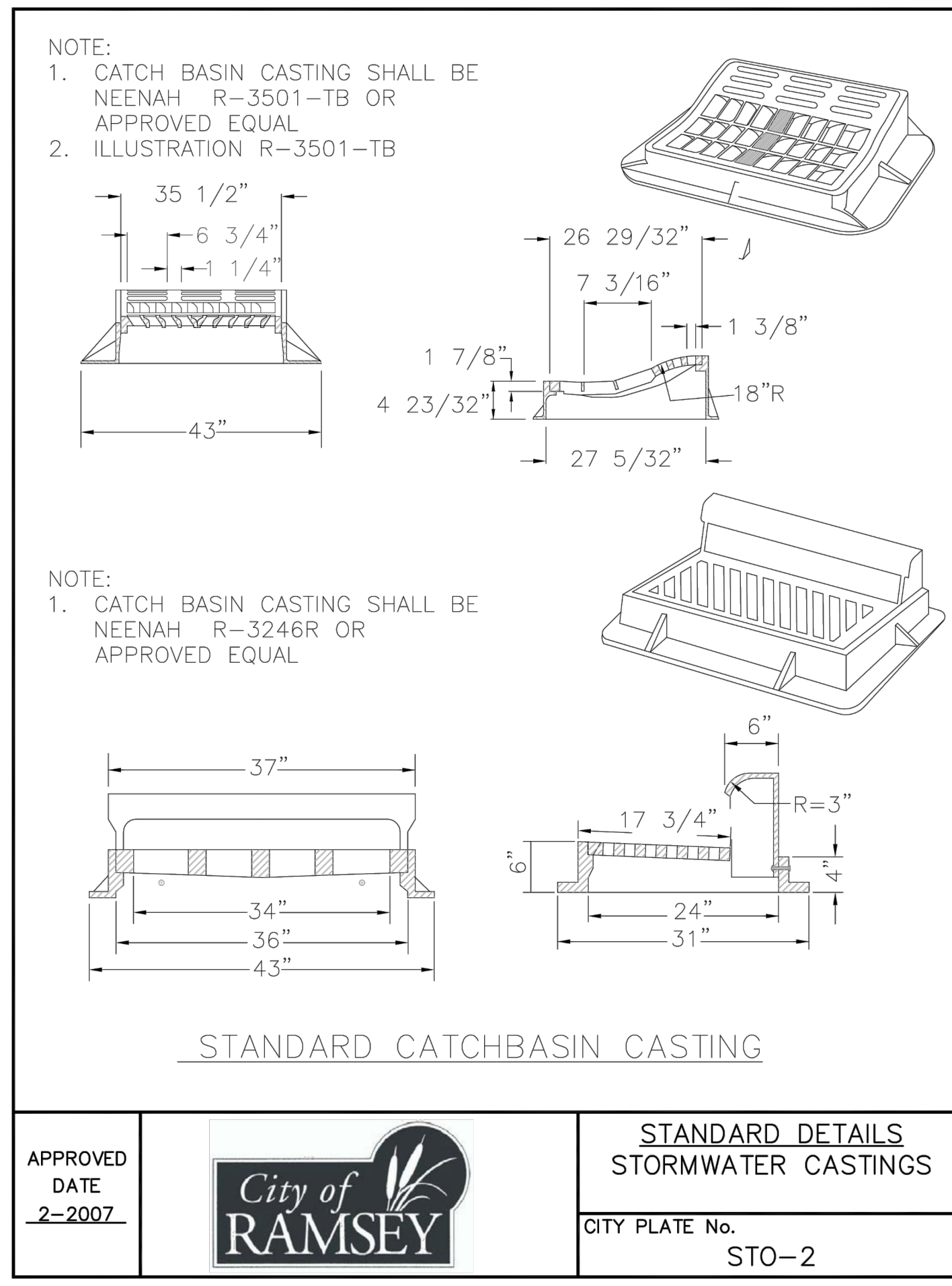
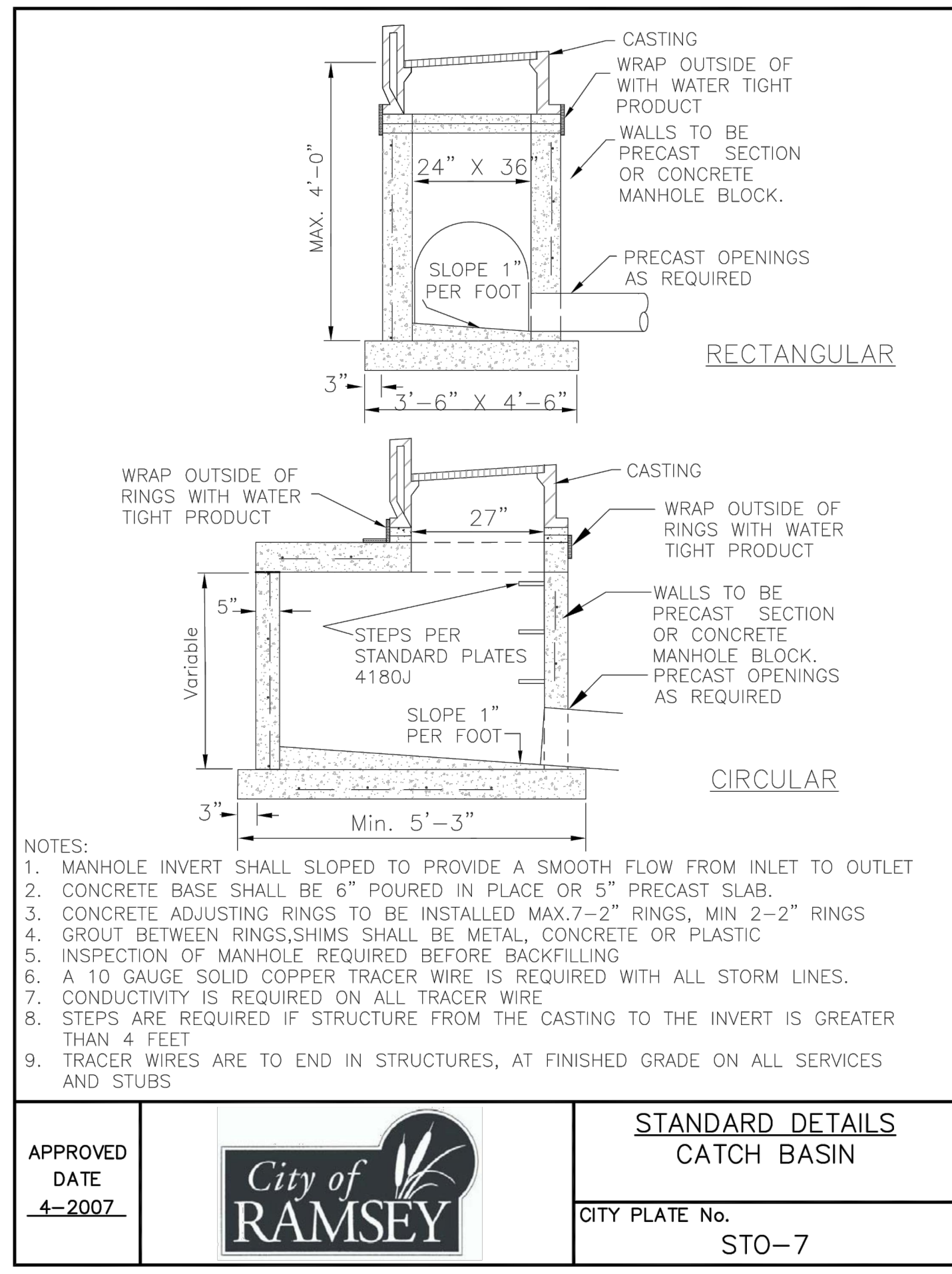
NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR 612-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CODY L. HOLMES REG. NO. 49143 DATE: 3/3/2015

PROJECT DATUM:	DESIGNED: CLH	BOLTON & MENK, INC. Consulting Engineers & Surveyors MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN BURNSVILLE, MN WILLMAR, MN CHASKA, MN RAMSEY, MN MAPLEWOOD, MN BAXTER, MN ROCHESTER, MN AMES, IA SPENCER, IA	RECORD DRAWING INFORMATION	PSD LLC, RAMSEY, MINNESOTA	SHEET
HORIZONTAL: Anoka County Coordinates (1996 Adjustment)	DRAWN: JEN		OBSERVER:	PARKVIEW EAST APARTMENT COMPLEX	C.0
VERTICAL: NGVD 29	CHECKED: CLH		CONTRACTOR:	TITLE SHEET	
			DATE:		



NOTE: DETAILS NOT TO SCALE

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CODY L. HOLMES

LIC. NO. 49143 DATE 3/3/2015

BOLTON & MENK, INC.

Consulting Engineers & Surveyors

MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN BURNSVILLE, MN
WILLMAR, MN CHASKA, MN RAMSEY, MN MAPLEWOOD, MN
BAXTER, MN ROCHESTER, MN AMES, IA SPENCER, IA

PSD LLC, RAMSEY, MINNESOTA

PARKVIEW EAST APARTMENT COMPLEX

DETAIL SHEET

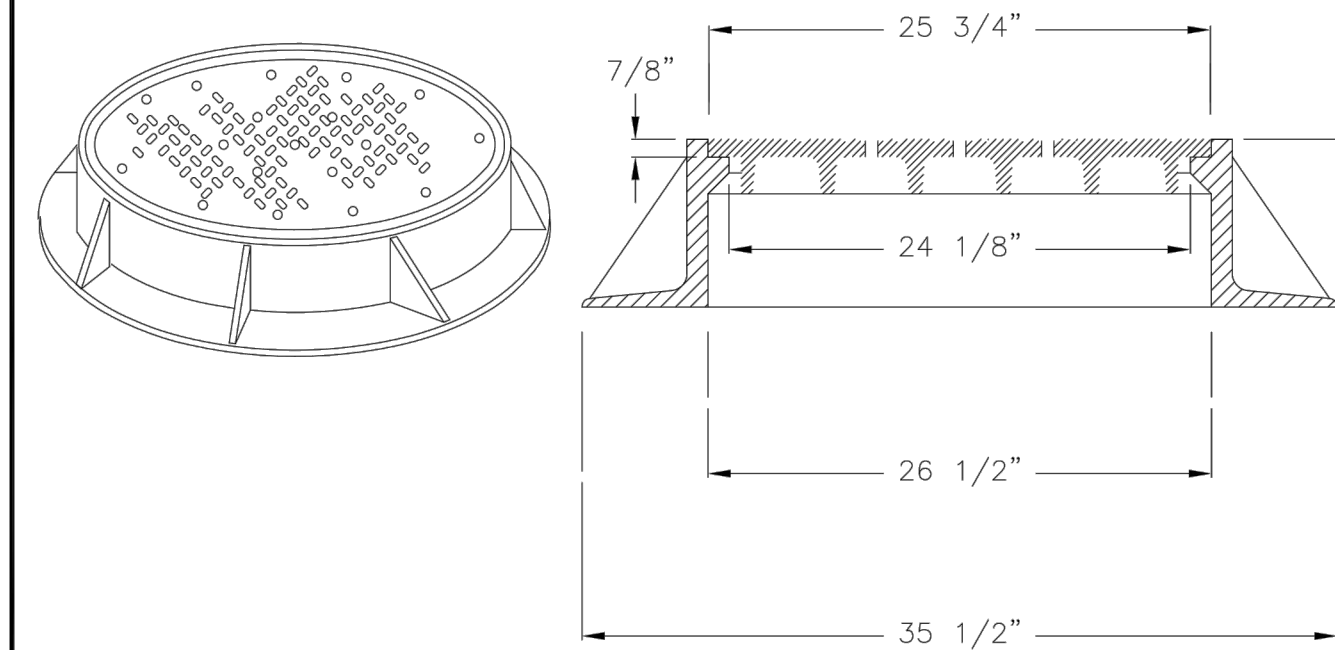
SHEET C1.1

R-1733 Series
Manhole Frames, Vented Lids

Heavy Duty

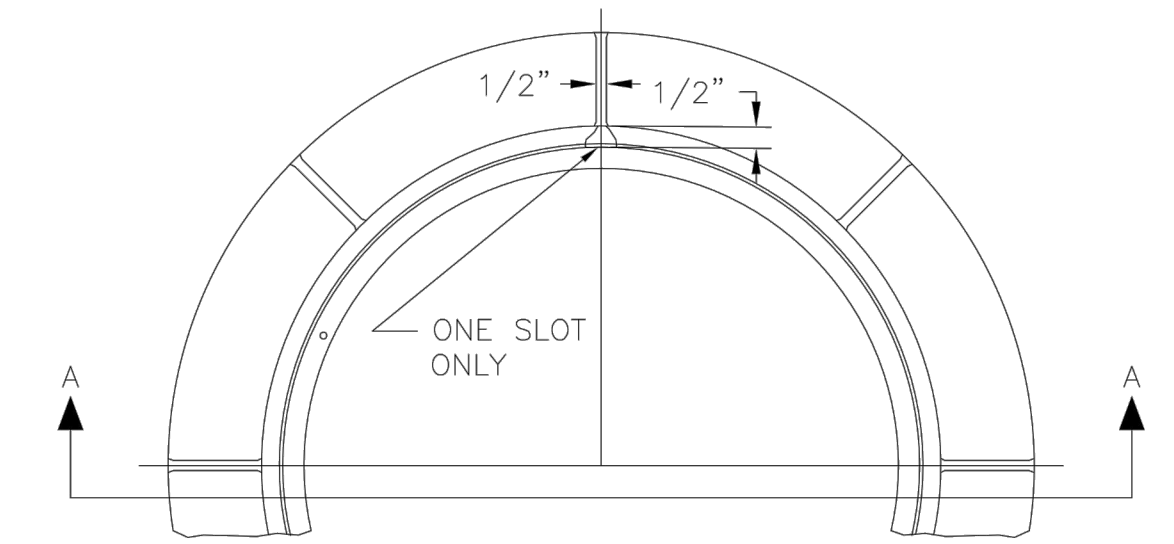
- Specify:
1. catalog number.
2. Solid lid with two lift holes.

Catalog No.	Height	Wt. Lbs.
	F	
R-1733-1	4"	405
R-1733	7"	425
R-1733-A	8"	485
R-1733-B	9"	490
R-1733-C	10"	500

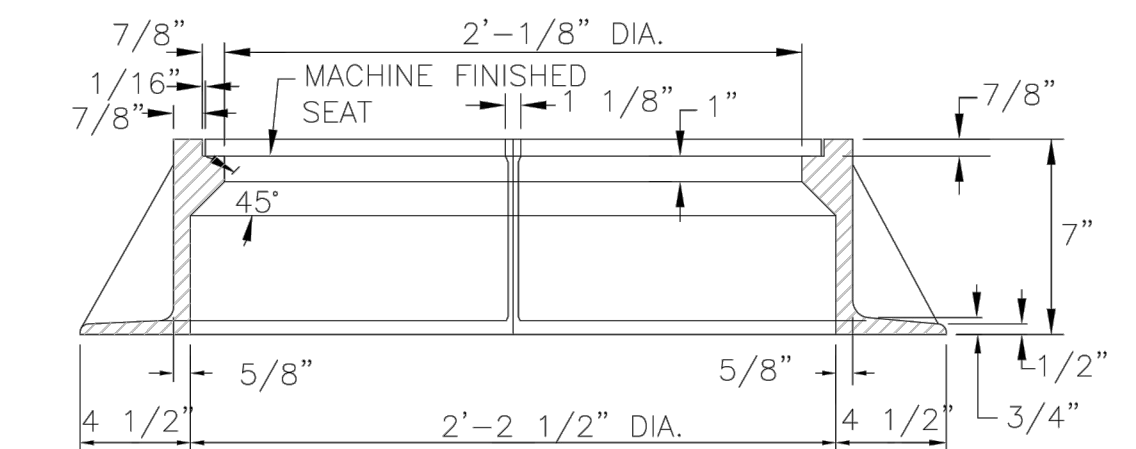


SANITARY SEWER CASTING

APPROVED		STANDARD DETAILS STANDARD DETAILS Sanitary SEWER CASTING
DATE 9-2011		CITY PLATE No. SEW-3



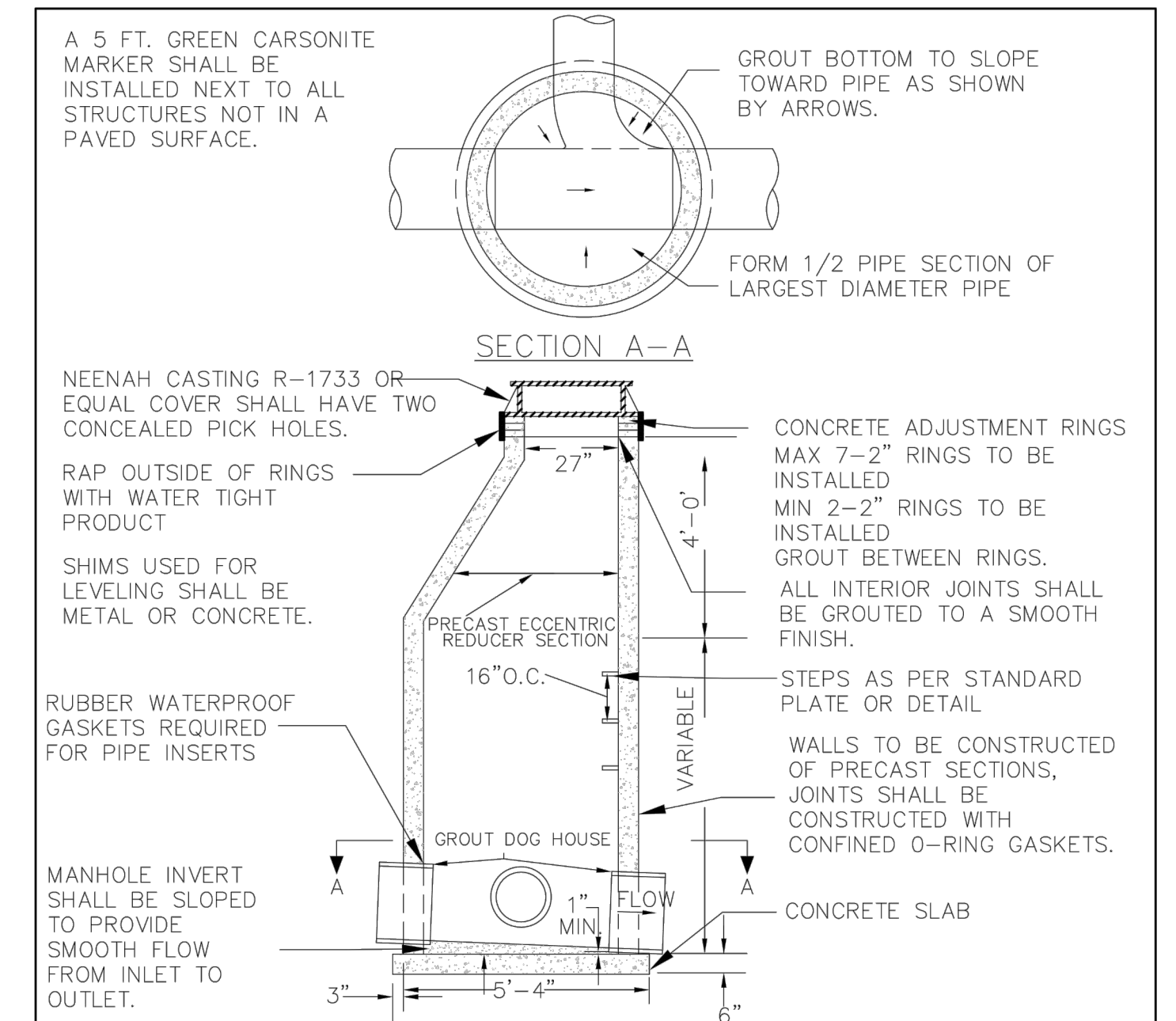
HALF TOP VIEW



SECTION A-A
7" CASTING

RING CASTING FOR
SANITARY SERVICE STRUCTURES

APPROVED		STANDARD DETAILS STANDARD DETAILS Sanitary SEWER SERVICE
DATE 9-2011		CITY PLATE No. SEW-2



SECTION A-A

STANDARD DETAIL

- NOTES:
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		STANDARD DETAILS MANHOLE
DATE 1-2006		CITY PLATE No. SEW-4

NOTE: DETAILS NOT TO SCALE

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CODY L. HOLMES
LIC. NO. 49143 DATE 3/3/2015

DESIGNED
CLH
DRAWN
JEN
CHECKED
CLH

BOLTON & MENK, INC.
Consulting Engineers & Surveyors
MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN BURNSVILLE, MN
WILLMAR, MN CHASKA, MN RAMSEY, MN MAPLEWOOD, MN
BAXTER, MN ROCHESTER, MN AMES, IA SPENCER, IA

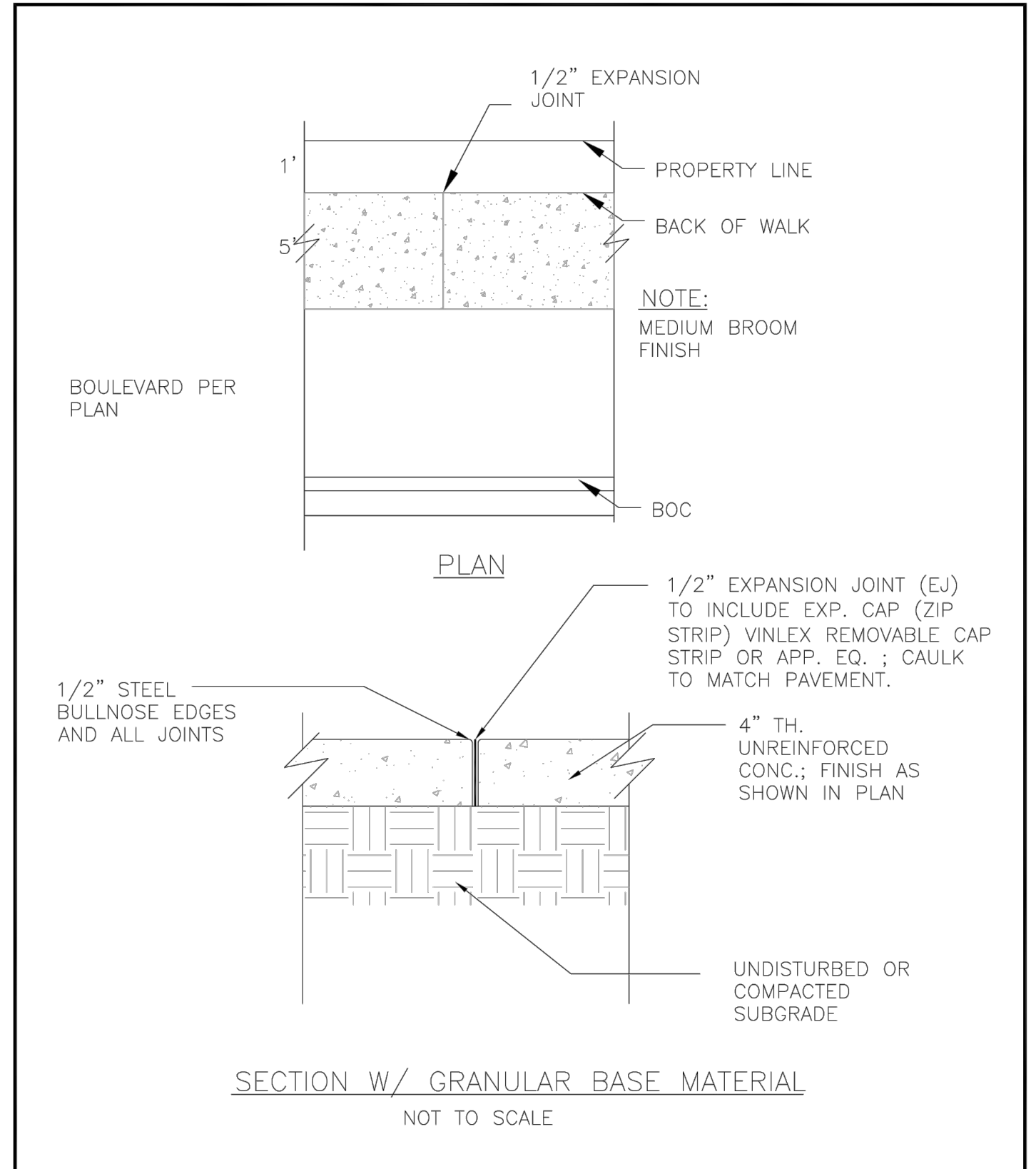
REV. BY DATE

PSD LLC, RAMSEY, MINNESOTA
PARKVIEW EAST APARTMENT COMPLEX

DETAIL SHEET

SHEET

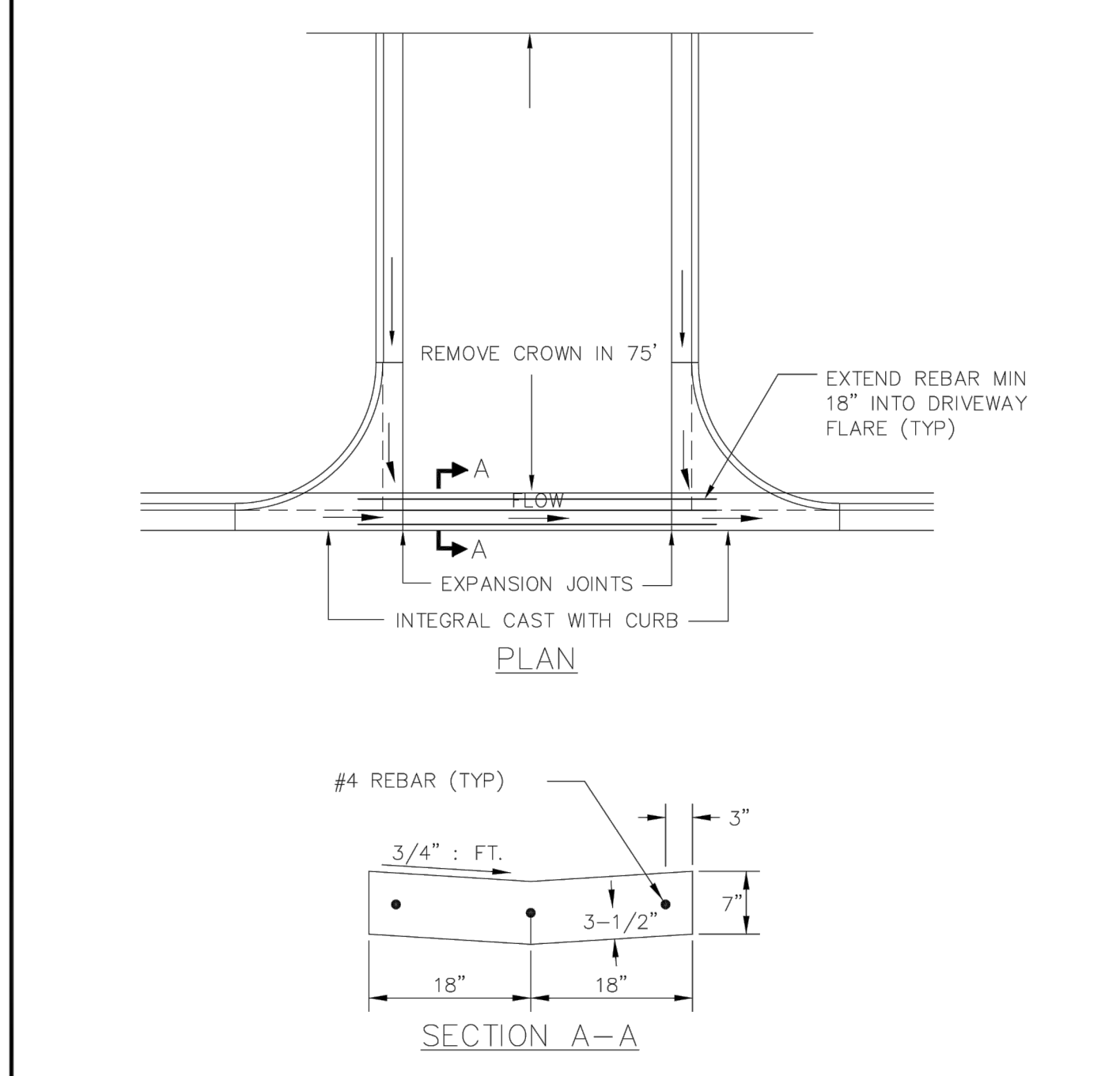
C1.2



APPROVED DATE 7-2011

City of RAMSEY

STANDARD DETAILS
CONCRETE SIDEWALK
CITY PLATE No. STR-03



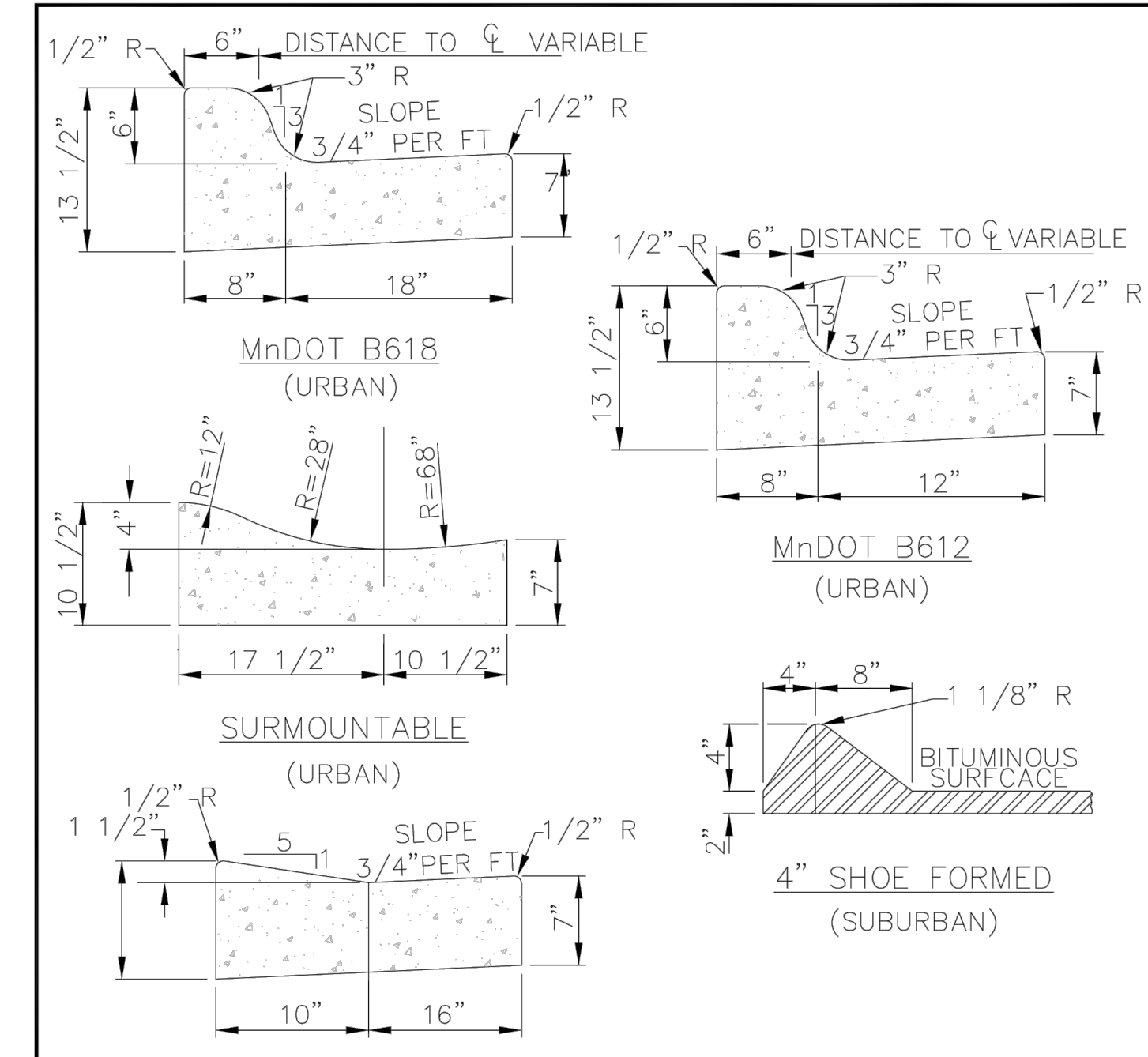
CONCRETE VALLEY GUTTER

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%

APPROVED DATE 4-2007

City of RAMSEY

STANDARD DETAILS
CROSS GUTTER
CITY PLATE No. STR-2



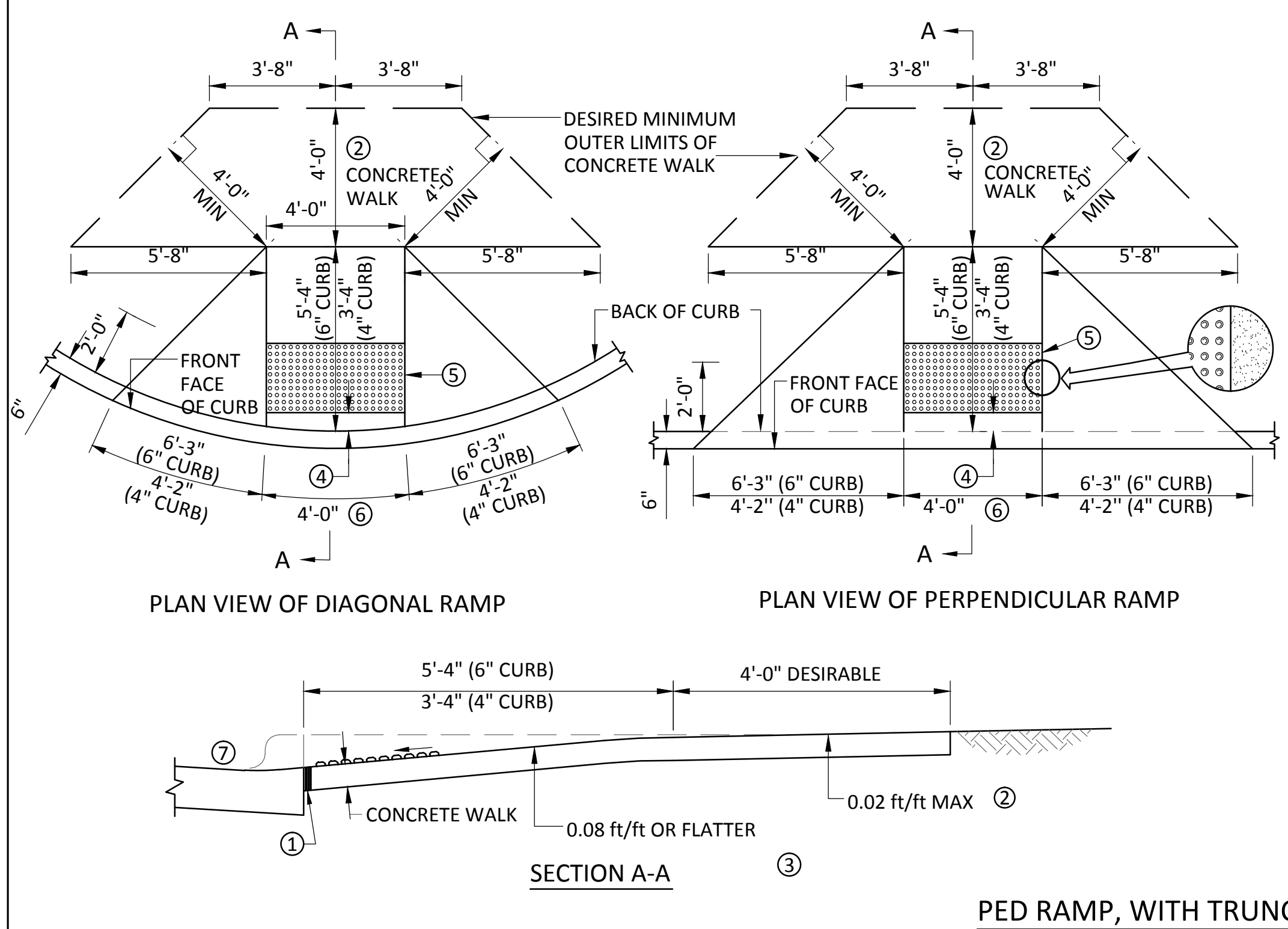
DRIVEWAY FOR B618

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 DATE 04-12

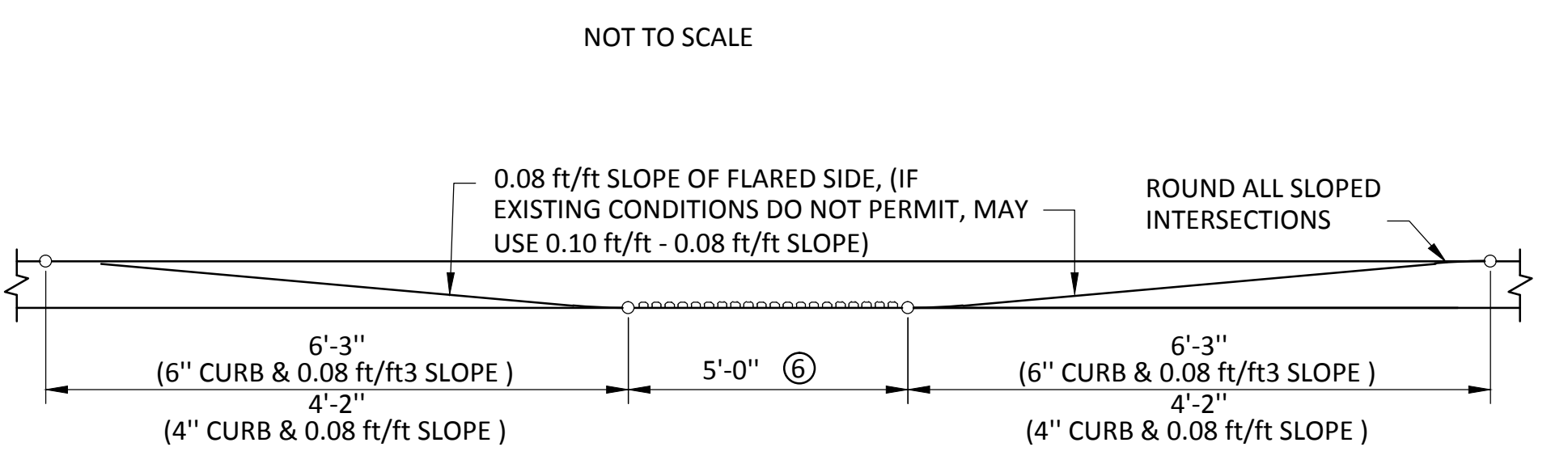
City of RAMSEY

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



NOTE: DETAILS NOT TO SCALE

CONCRETE WALK
0.08 ft/ft OR FLATTER
0.02 ft/ft MAX



NOT TO SCALE

ELEVATION OF RAMP

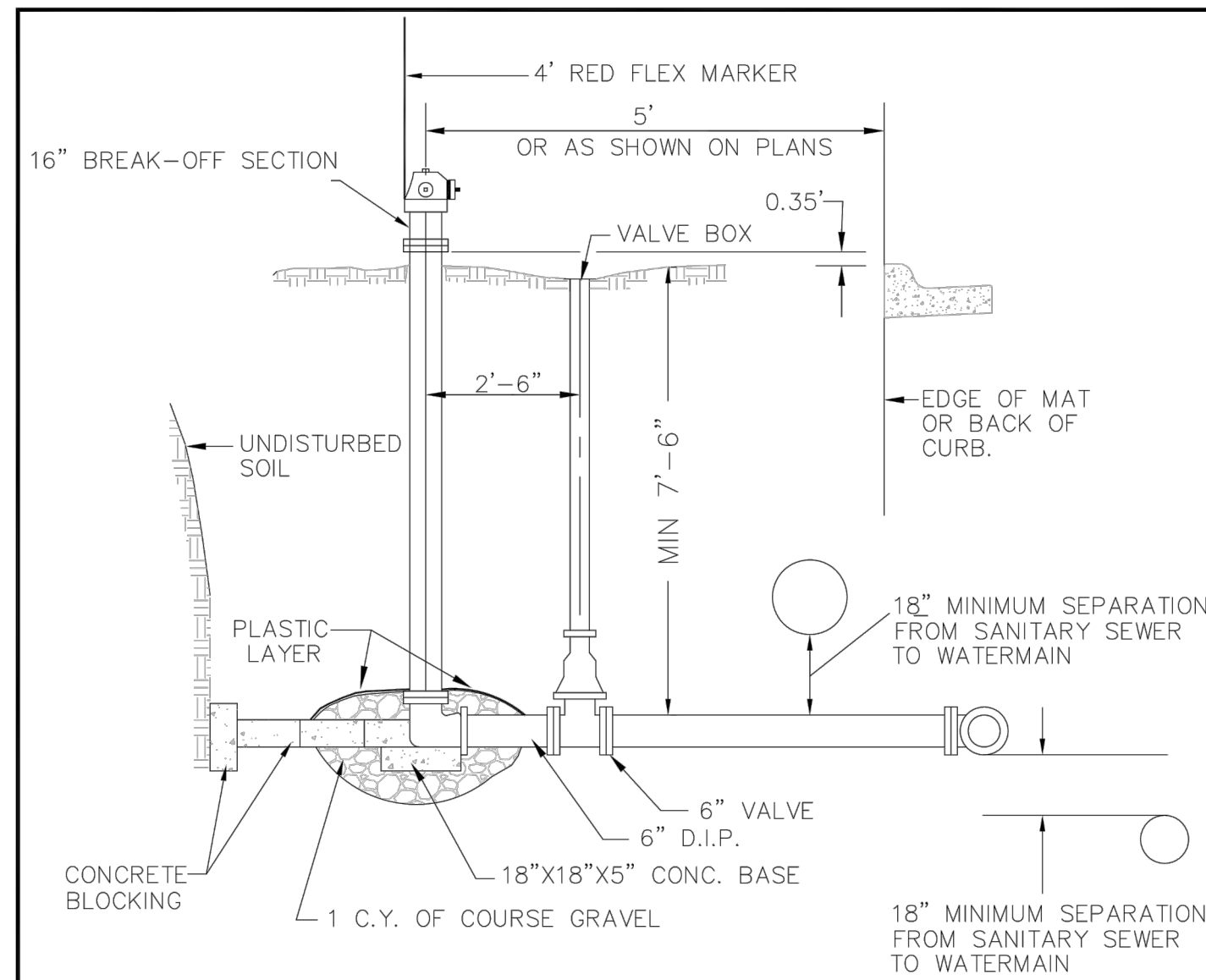
NOTES:
① 1/2 INCH PREFORMED JOINT FILLER MATERIAL, AASHTO M 213.
② WHEN POSSIBLE, PROVIDE A PATH OF TRAVEL 4'-0" WIDE BEHIND THE PEDESTRIAN RAMP. A RELATIVELY FLAT 4'x4' LANDING WILL ALLOW WHEELCHAIRS TO NAVIGATE AROUND THE PEDESTRIAN RAMP.
③ WHEN A MEDIAN IS NOT WIDE ENOUGH FOR TWO PEDESTRIAN RAMPS AND A 48" LANDING BETWEEN THEM, THE PEDESTRIAN CROSSING SHALL BE CUT THROUGH THE MEDIAN AT STREET LEVEL.
④ 4" TO 6" IS THE REQUIRED OFFSET OF THE DETECTABLE WARNINGS/TRUNCATED DOME AREA FROM THE BACK OF CURB.
⑤ ADA REQUIRED TRUNCATED DOME AREA SHALL BE 2'-0" MIN. IN DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH (4'-0" TYP.) OF THE CURB RAMP. THIS 2'-0" BY 4'-0" WIDTH (TYP.) TRUNCATED DOME AREA SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE. THE ENTIRE TRUNCATED DOME AREA SHALL BE A DARK COLOR (RED, BLACK, DARK GRAY, OR BRIGHT YELLOW) WHEN THE ADJACENT SIDEWALK IS A "WHITE" OR LIGHT GRAY CEMENT COLOR.
⑥ 5'-0" FOR NEW CONSTRUCTION.
⑦ FLATTEN GUTTER OF CURB 0.02% AT TRUNCATED DOMES.

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CODY L. HOLMES
LIC. NO. 49143 DATE 3/3/2015

DESIGNED: CLH
DRAWN: JEN
CHECKED: CLH

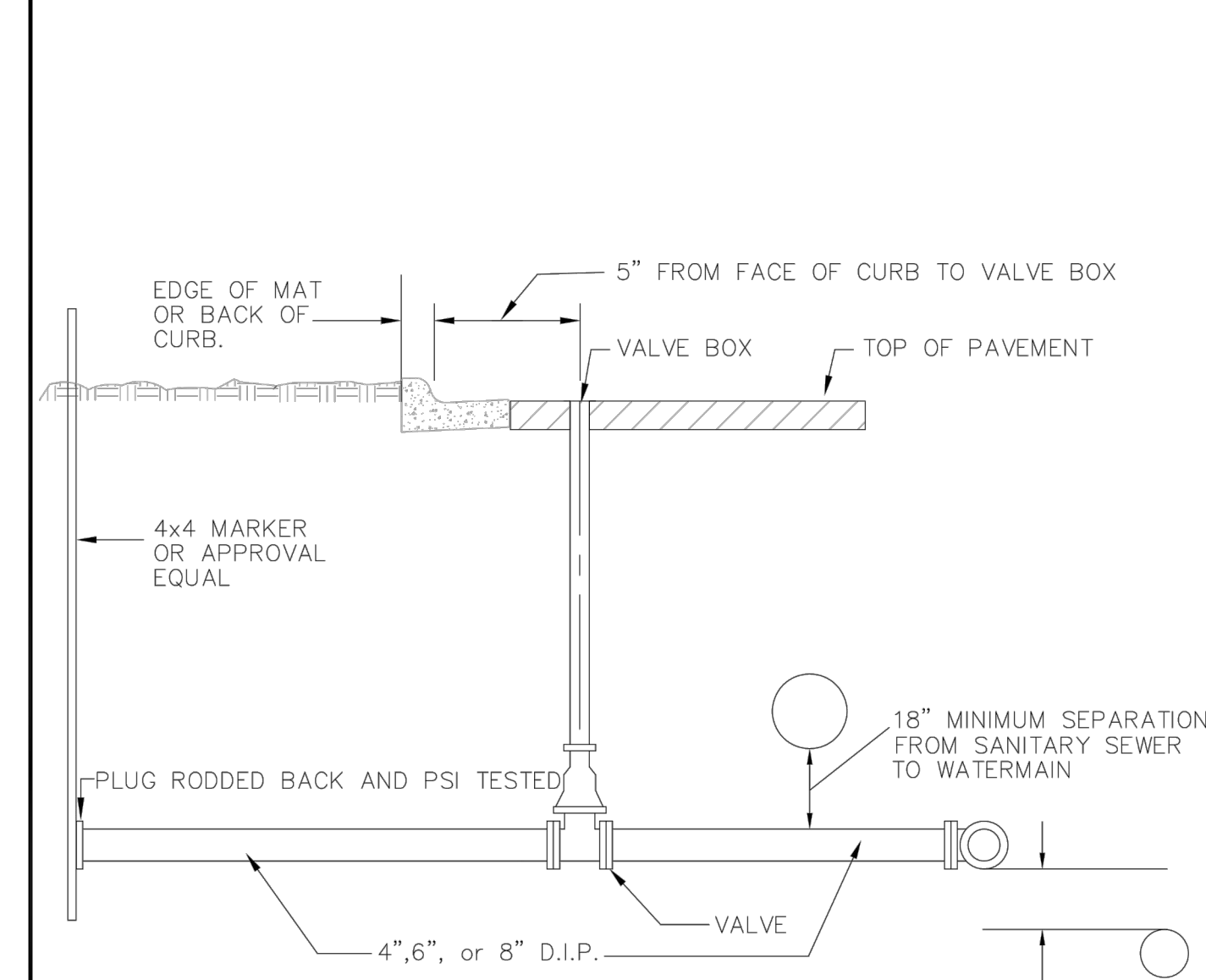
BOLTON & MENK, INC.
Consulting Engineers & Surveyors
MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN BURNSVILLE, MN
WILLMAR, MN CHASKA, MN RAMSEY, MN MAPLEWOOD, MN
BAXTER, MN ROCHESTER, MN AMES, IA SPENCER, IA



NOTES:

1. HYDRANTS TO BE ORDERED FOR 8'-0" BURY. IN AREAS OF EXTRA DEPTH ON THE WATERMAIN, HYDRANTS EXTENSIONS MAY BE REQUIRED.
2. 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.
3. TOP NUT OF HYDRANT 2.5' ABOVE TOP BACK OF CURB OR BITUMINOUS SURFACE.
4. HYDRANTS BURIED BELOW WATER TABLE, DRAIN HOLES NEED TO BE PLUGGED AND HYDRANT MARKED BY PAINTING 5" CAP YELLOW.
5. BRUSH PAINT ALL HYDRANTS AFTER INSTALLATION IS COMPLETE.

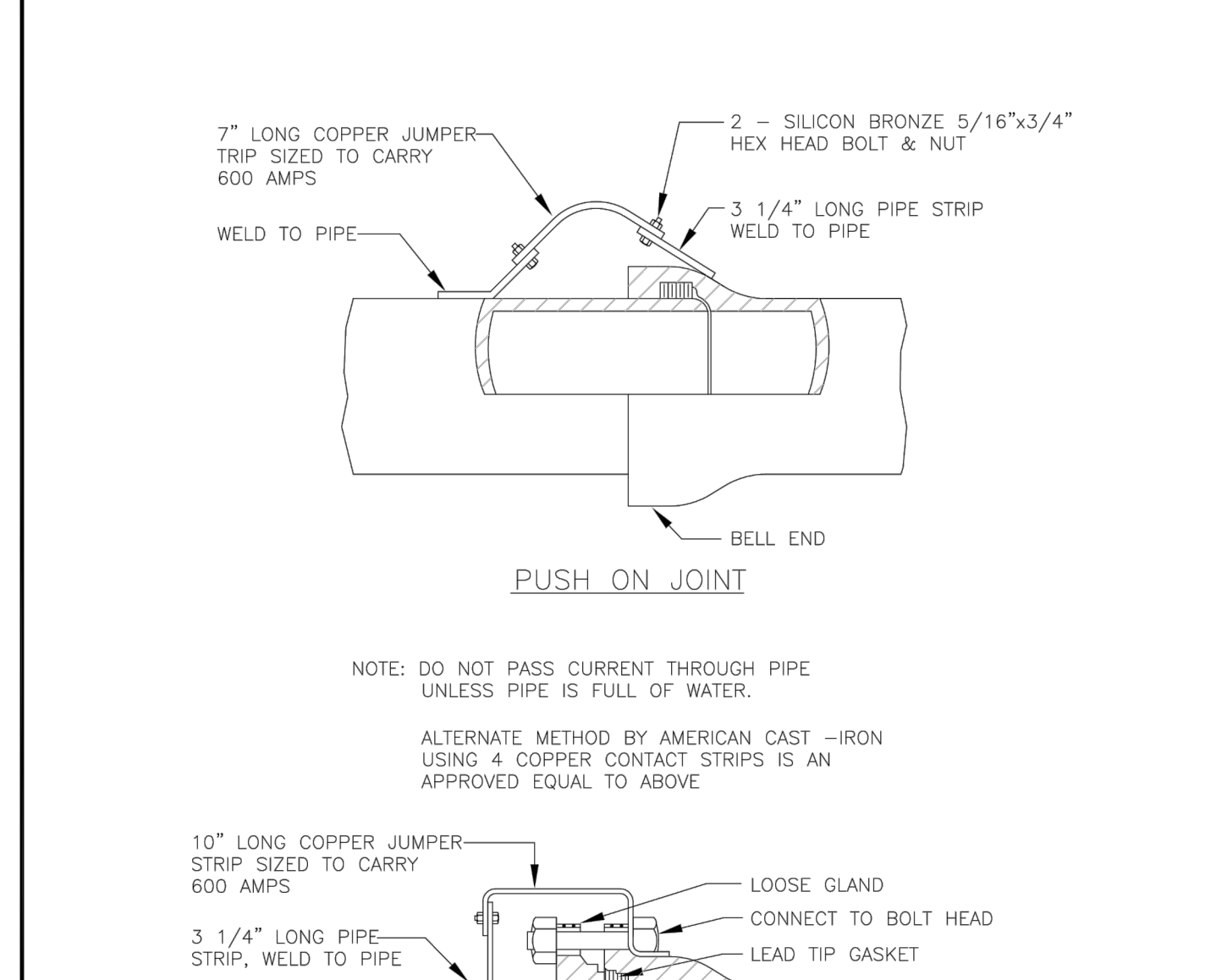
APPROVED DATE 4-2005		STANDARD DETAILS HYDRANT
		CITY PLATE No. WAT-3



NOTES:

1. SHALL BE BLOCKED OR TIED TO THE 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.

APPROVED DATE 2-2013		STANDARD DETAILS COMMERCIAL SERVICE
		CITY PLATE No. WAT-6



NOTE: DO NOT PASS CURRENT THROUGH PIPE UNLESS PIPE IS FULL OF WATER.

ALTERNATE METHOD BY AMERICAN CAST -IRON USING 4 COPPER CONTACT STRIPS IS AN APPROVED EQUAL TO ABOVE

APPROVED DATE 7-93		STANDARD DETAILS JOINT CONNECTION FOR ELECTRICAL CONDUCTIVITY
		CITY PLATE No. WAT-1

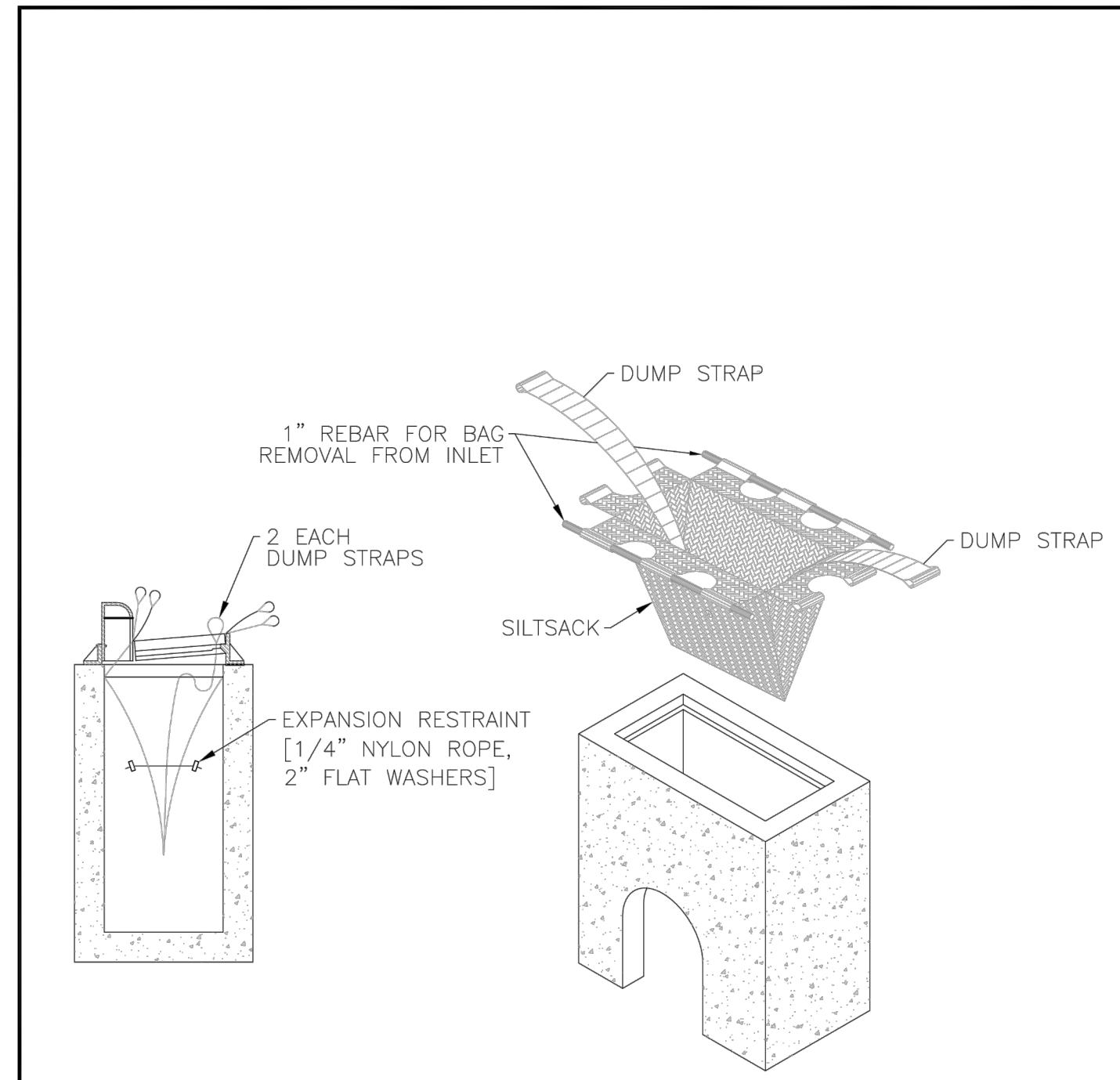
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CODY L. HOLMES
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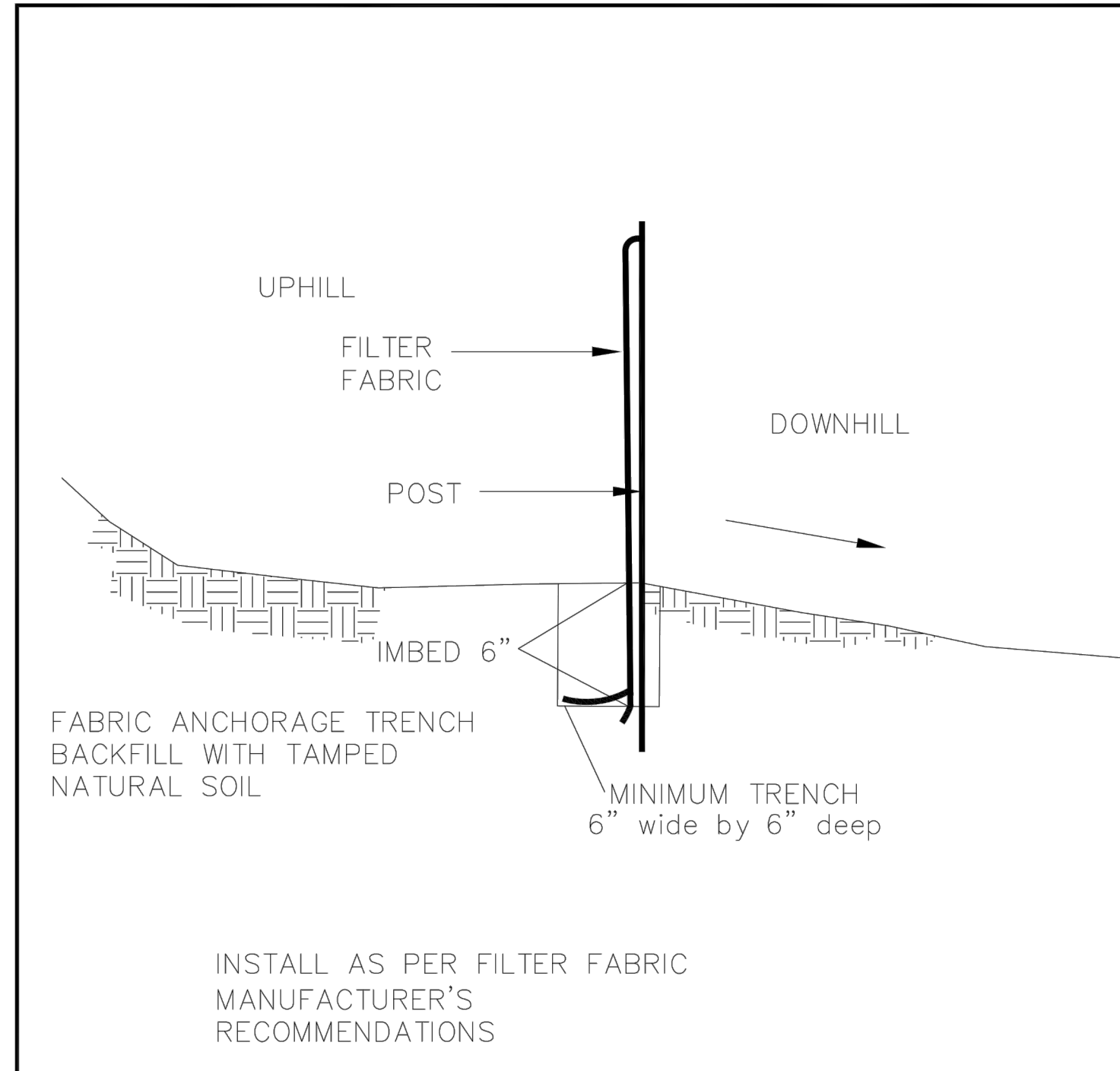
DESIGNED CLH		BOLTON & MENK, INC. Consulting Engineers & Surveyors MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN BURNSVILLE, MN WILLMAR, MN CHASKA, MN RAMSEY, MN MAPLEWOOD, MN BAXTER, MN ROCHESTER, MN AMES, IA SPENCER, IA
DRAWN JEN		
CHECKED CLH		
DATE		

REV.	BY	DATE	PSD LLC, RAMSEY, MINNESOTA	SHEET
			PARKVIEW EAST APARTMENT COMPLEX	C1.4
			DETAIL SHEET	



CATCH BASIN SEDIMENT FILTER SACK
NOT TO SCALE

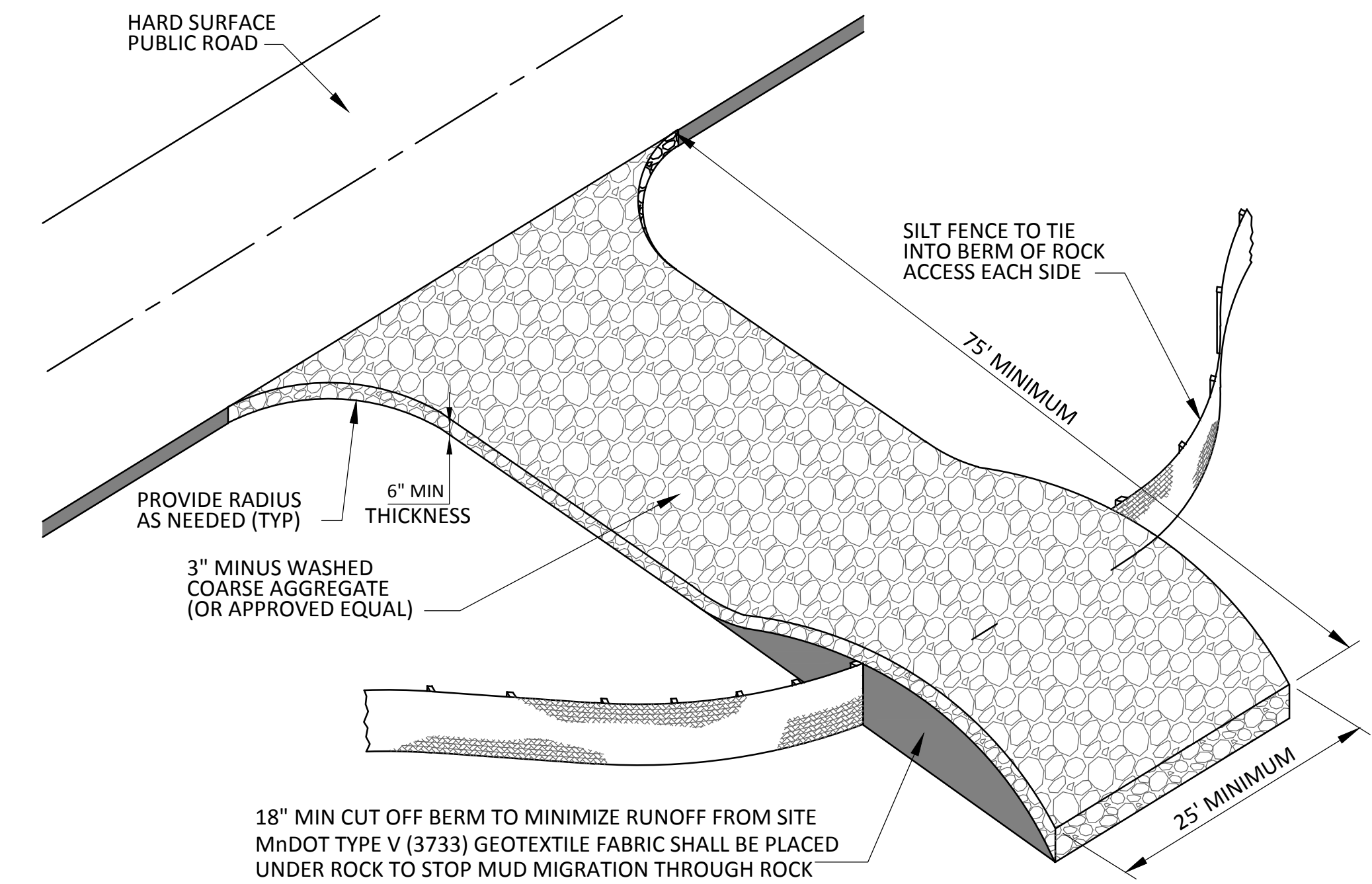
APPROVED		STANDARD DETAILS CB SEDIMENT FILTER SACK
DATE 7-2011		CITY PLATE No. STO 11



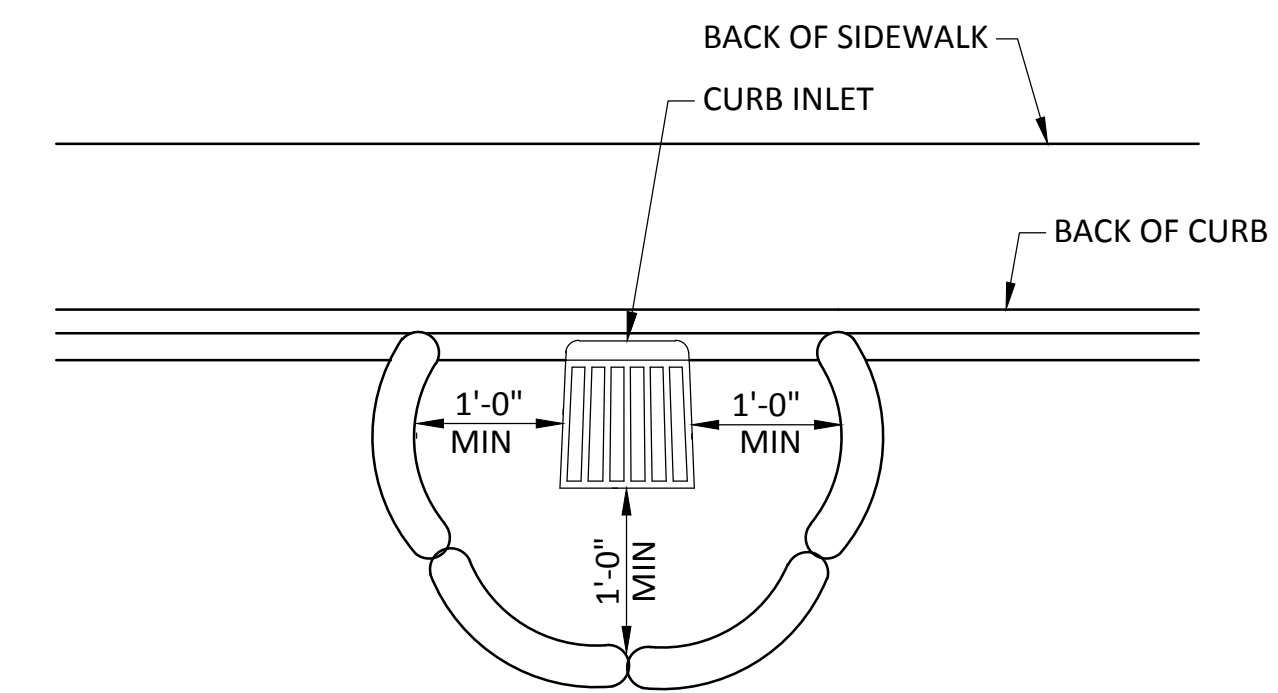
INSTALL AS PER FILTER FABRIC
MANUFACTURER'S
RECOMMENDATIONS

SILT FENCE DETAIL
NO SCALE

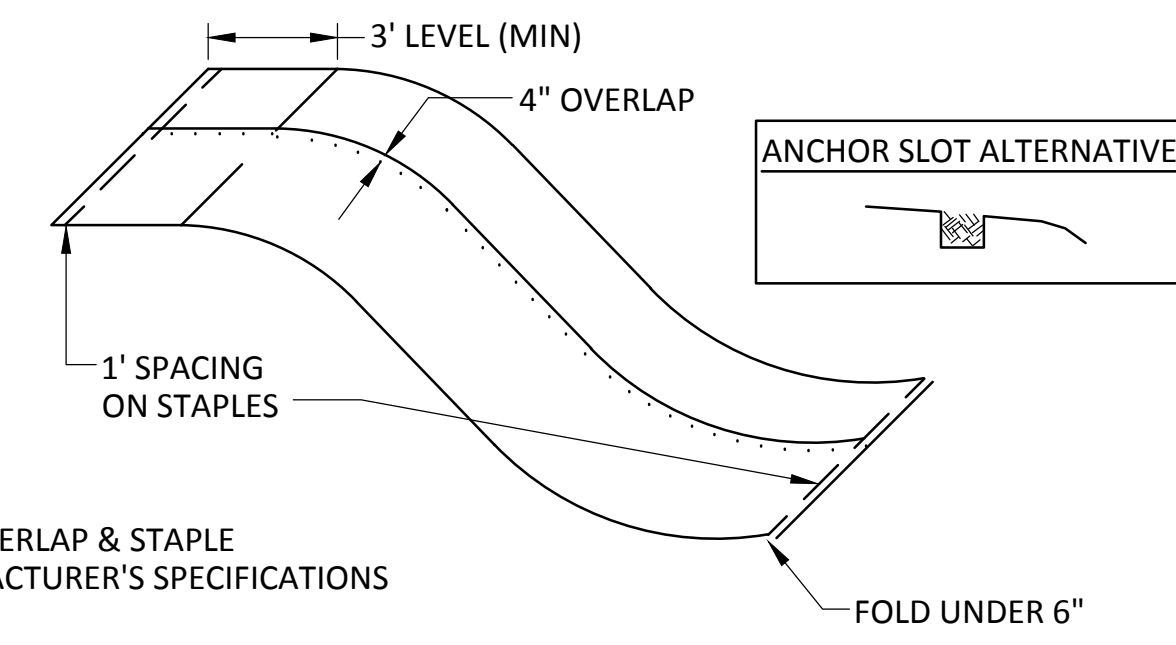
APPROVED		STANDARD DETAILS SILT FENCE
DATE 2-2005		CITY PLATE No. ERO-3



ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTE:
THIS INLET PROTECTION IS USED DURING
ROUGH GRADING ONLY, USE BEFORE ROAD
IS OPEN TO TRAFFIC OR IS PAVED



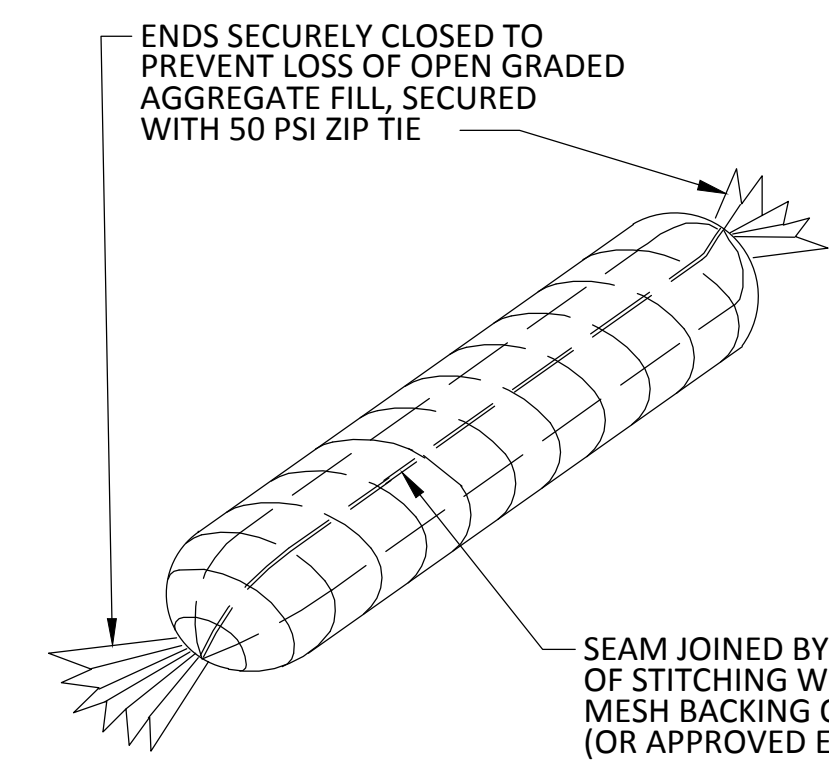
NOTE:
ANCHOR, OVERLAP & STAPLE
PER MANUFACTURER'S SPECIFICATIONS

EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE

FILL ROCK LOG WITH 45 LBS.
OF OPEN GRADED AGGREGATE
CONSISTING OF SOUND, DURABLE
PARTICLES OF CRUSHED QUARRY
ROCK OR GRAVEL CONFORMING
TO THE FOLLOWING GRADATION.

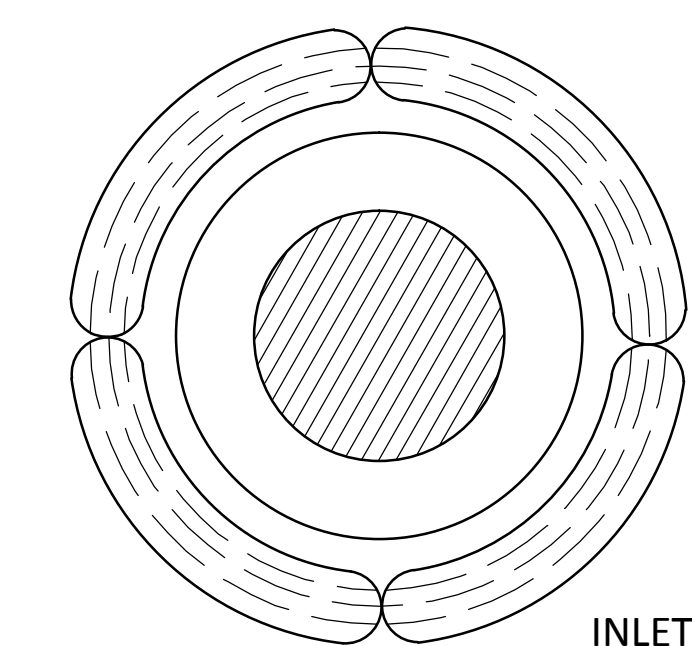
GRADATION	
SIEVE SIZE	PERCENT PASSING
1 1/2"	100
1"	95-100
3/4"	65-95
3/8"	30-65
NO 4	10-35
NO 10	3-20
NO 40	0-8
NO 200	0-3

NOTE:
CRUSHED CONCRETE OR BITUMINOUS
SHALL NOT BE USED FOR OPEN
GRADED AGGREGATE.



INLET PROTECTION
ROCK BAG
NOT TO SCALE

PAYMENT SHALL INCLUDE ALL MATERIALS,
FILLING OF LOG, PLACEMENT,
MAINTENANCE & REMOVAL;
80% OF BID PRICE SHALL BE PAID UPON
PROPER PLACEMENT WITH THE FINAL 20%
PAID UPON REMOVAL



INLET PROTECTION
WITH ROCK LOG

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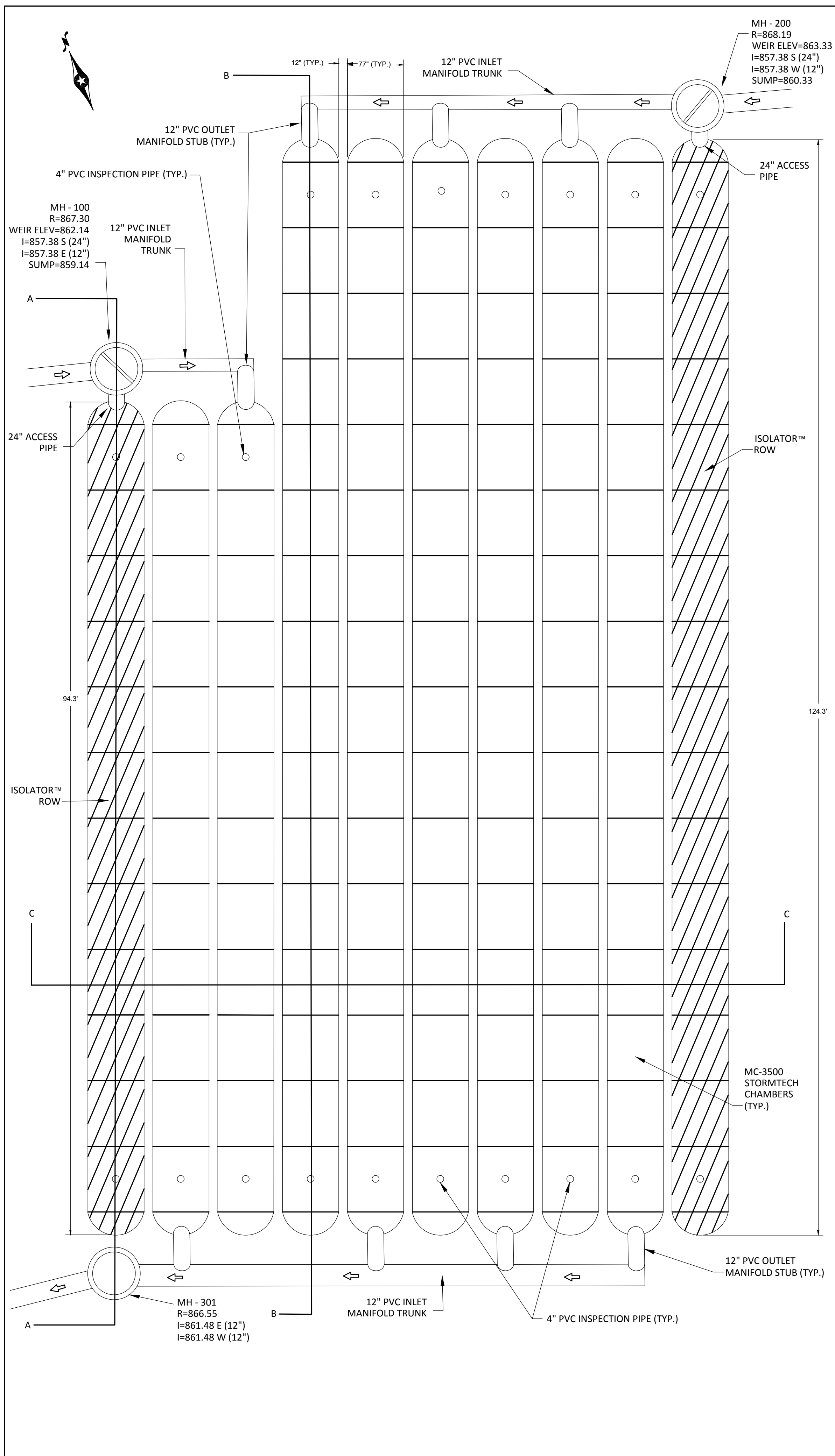
CODY L. HOLMES
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DESIGNED: CLH
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CHECKED: CLH

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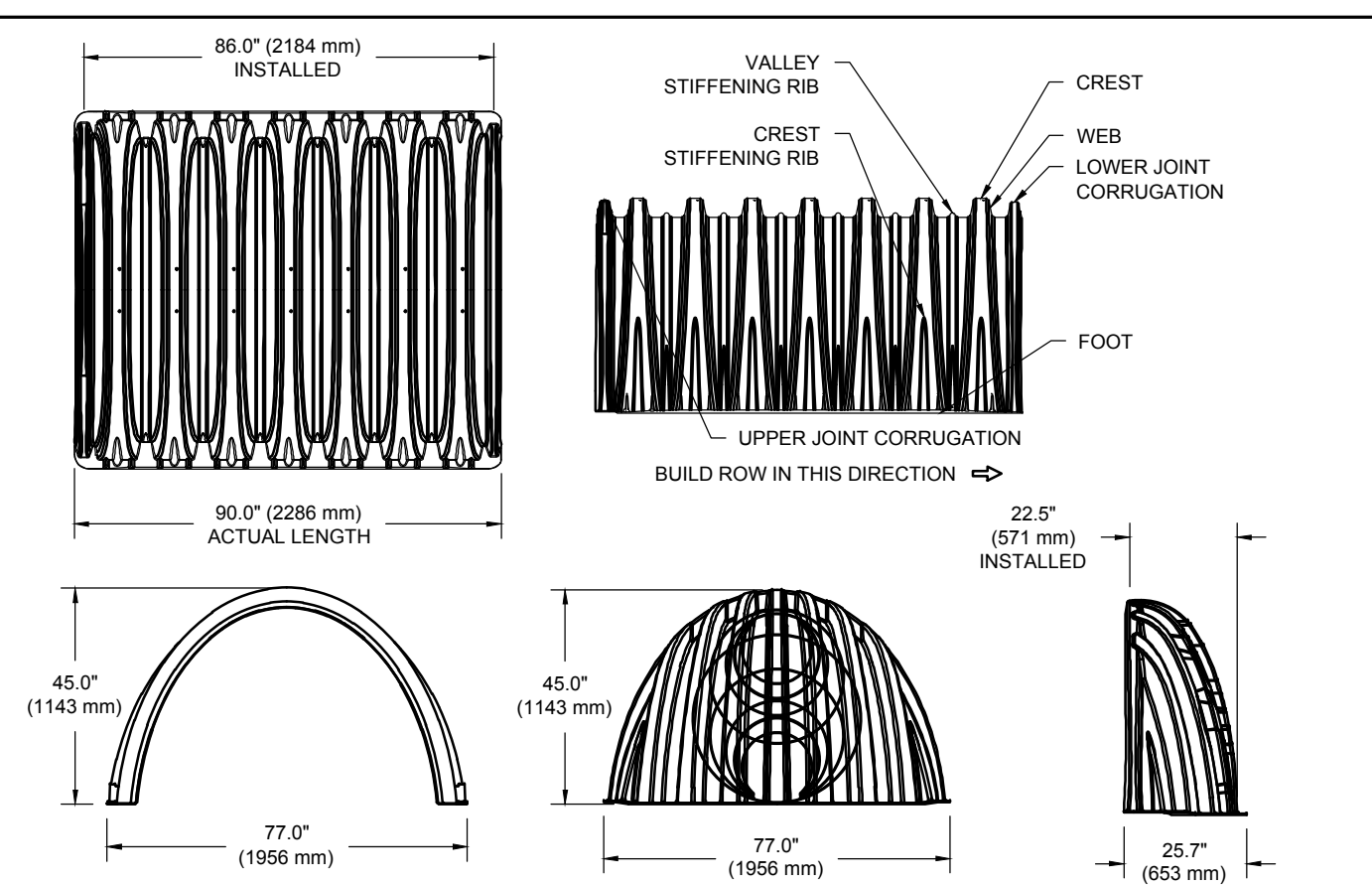
REV.	BY	DATE	PSD LLC, RAMSEY, MINNESOTA PARKVIEW EAST APARTMENT COMPLEX	SHEET C1.5
			DETAIL SHEET	

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NOTE: DETAILS NOT TO SCALE

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NOMINAL CHAMBER SPECIFICATIONS
 SIZE (W X H X INSTALLED LENGTH) 77.0" X 45.0" X 86.0" (1956 mm X 1143 mm X 2184 mm)
 CHAMBER STORAGE 109.9 CUBIC FEET (3.11 m³)
 MINIMUM INSTALLED STORAGE* 178.9 CUBIC FEET (5.06 m³)
 WEIGHT 135.0 lbs. (61.2 kg)

NOMINAL END CAP SPECIFICATIONS
 SIZE (W X H X INSTALLED LENGTH) 77.0" X 45.0" X 22.5" (1956 mm X 1143 mm X 571 mm)
 END CAP STORAGE 14.9 CUBIC FEET (0.42 m³)
 MINIMUM INSTALLED STORAGE* 46.0 CUBIC FEET (1.30 m³)
 WEIGHT 50.0 lbs. (22.7 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

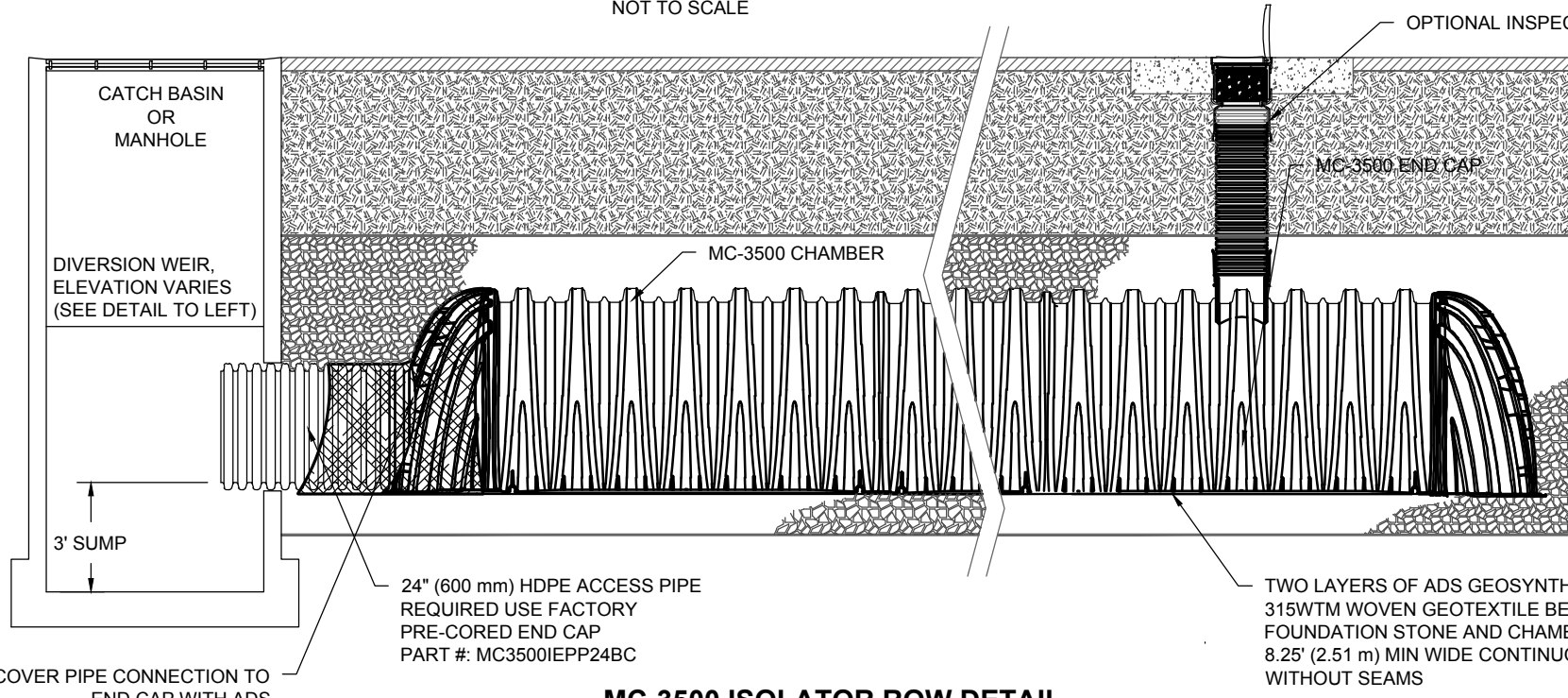
STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	B	C
MC3500IEPP00T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B	---	---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B	---	---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B	---	---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B	---	---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B	---	---	1.50" (38 mm)
MC3500IEPP18T	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18B	---	---	1.77" (45 mm)
MC3500IEPP24T	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24B	---	---	2.06" (52 mm)
MC3500IEPP30B	30" (750 mm)	---	---

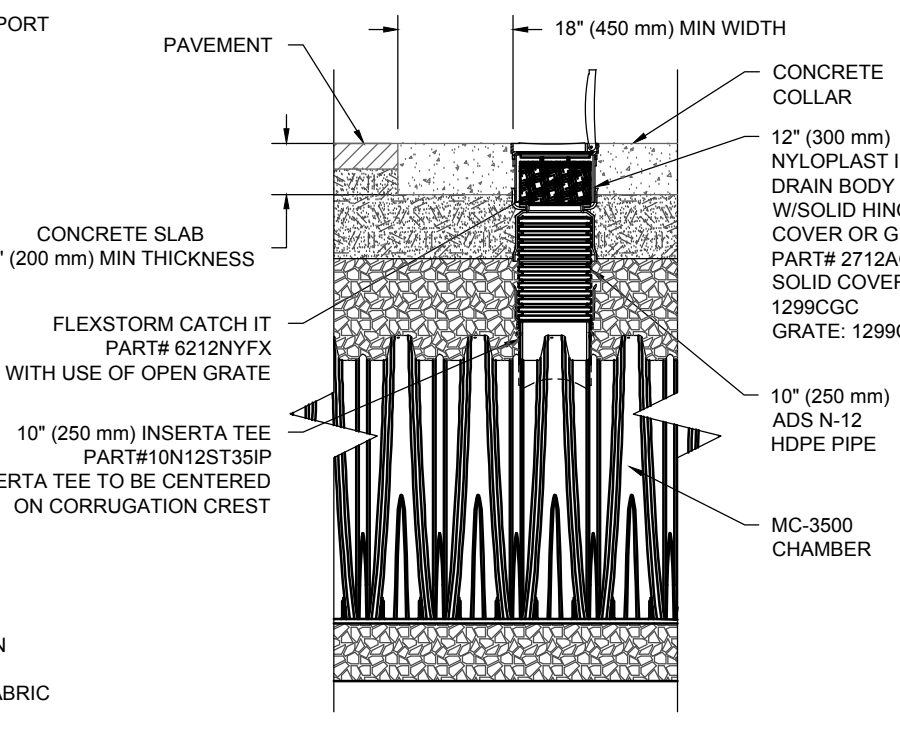
NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm) THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

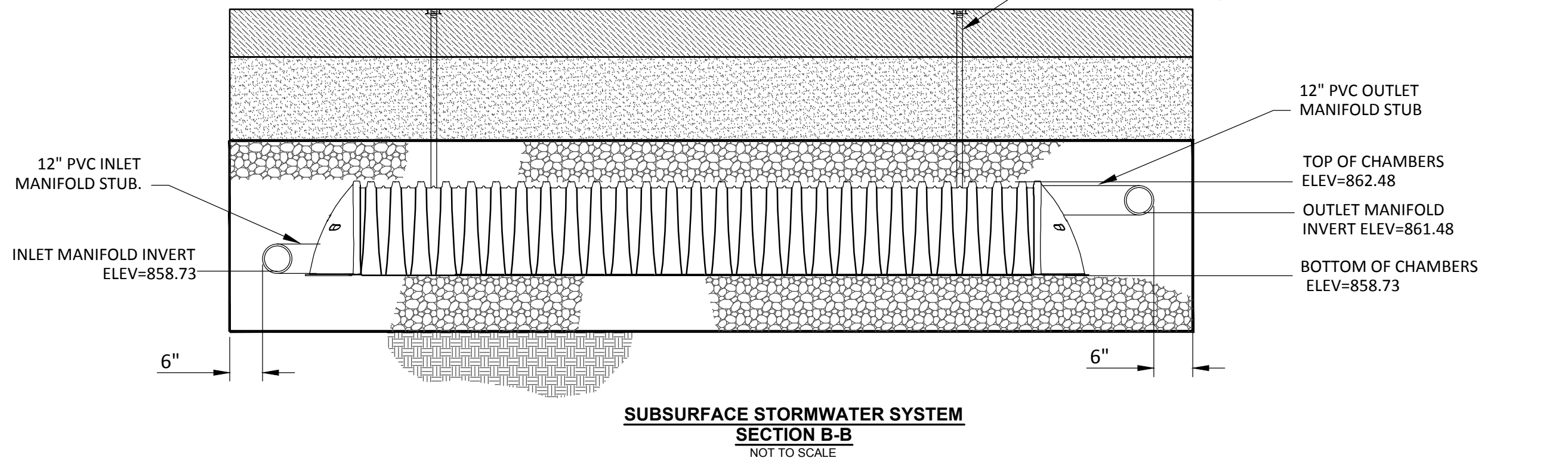
MC-3500 TECHNICAL SPECIFICATION
 NOT TO SCALE



MC-3500 ISOLATOR ROW DETAIL SECTION A-A
 NOT TO SCALE



MC-3500 INSPECTION PORT DETAIL SECTION C-C
 NOT TO SCALE



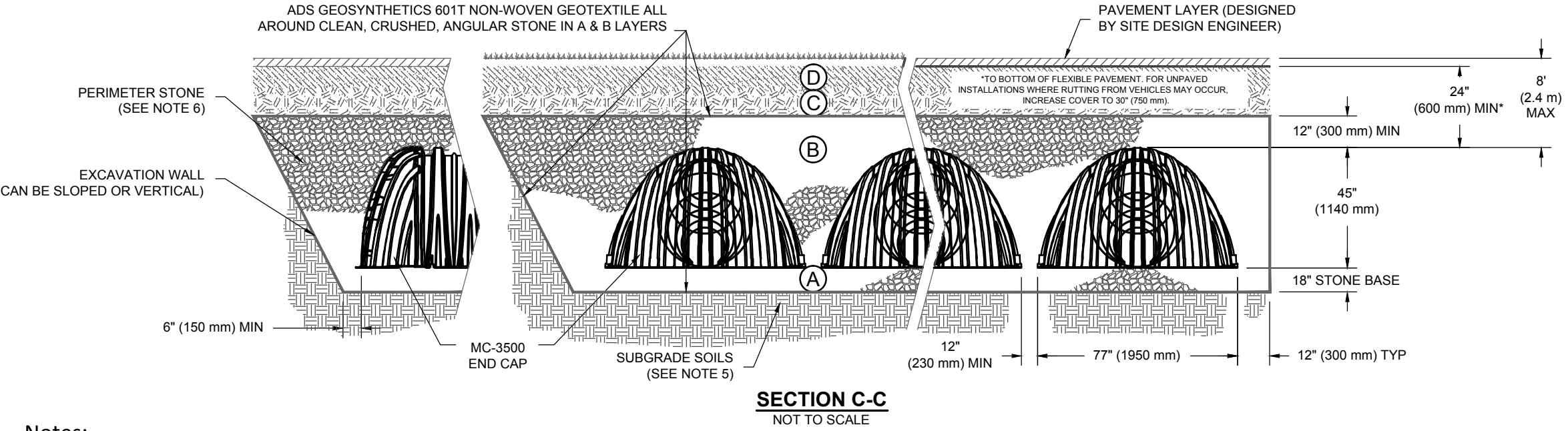
SUBSURFACE STORMWATER SYSTEM SECTION B-B
 NOT TO SCALE

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 A-1, A-2-4, A-3 OR AASHTO M43 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. **

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



Notes:

- MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

INSPECTION AND MAINTENANCE NOTES:

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - ALL ISOLATOR ROWS
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
 A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED

- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES:

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

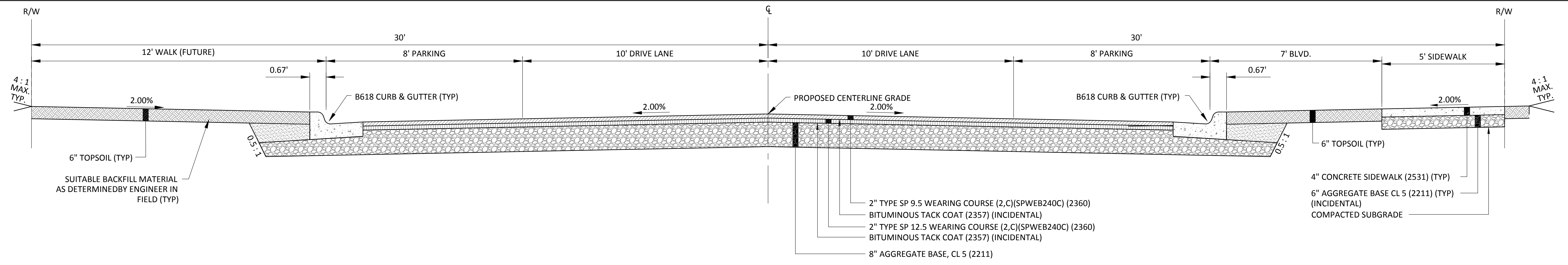
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CODY L. HOLMES
 LIC. NO. 49143 DATE 3/3/2015

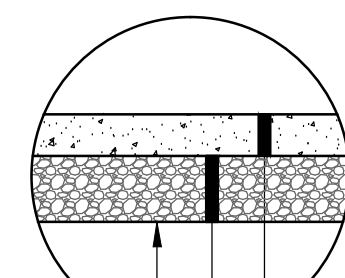
DESIGNED: CLH
 DRAWN: JEN
 CHECKED: CLH

BOLTON & MENK, INC.
 Consulting Engineers & Surveyors
 MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN BURNSVILLE, MN
 WILLMAR, MN CHASKA, MN RAMSEY, MN MAPLEWOOD, MN
 BAXTER, MN ROCHESTER, MN JAMES, IA SPENCER, IA

REV.	BY	DATE	PSD LLC, RAMSEY, MINNESOTA PARKVIEW EAST APARTMENT COMPLEX UNDERGROUND STORAGE DETAILS	SHEET C1.6

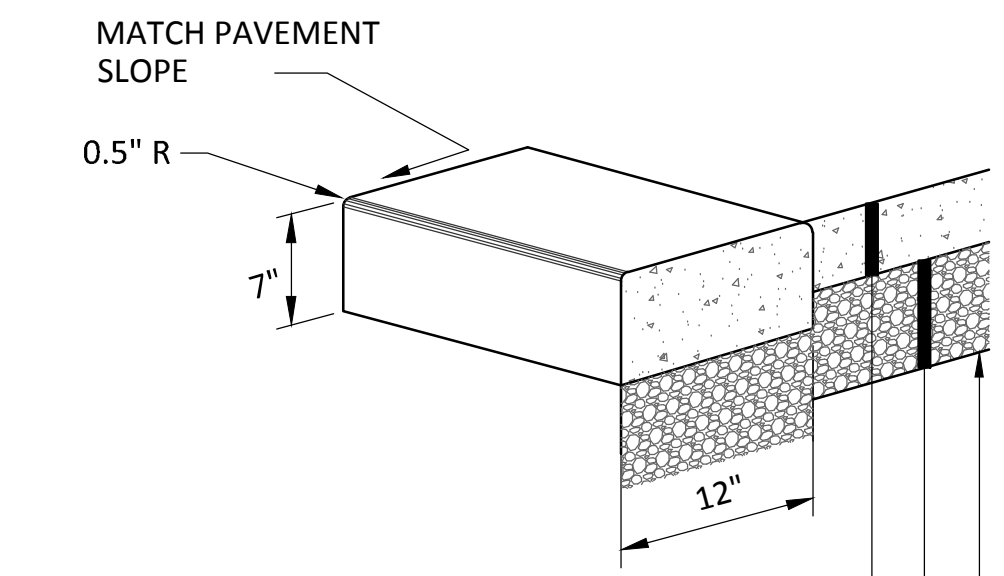


TYPICAL 36'-0" STREET SECTION
NOT TO SCALE



- 4" CONCRETE SIDEWALK PAVEMENT (SPEC 2521)
- 6" AGGREGATE BASE, CLASS 5 (SPEC 2211) (INCIDENTAL)
- SUBGRADE PREPARATION (SPEC 2112) (TYP)

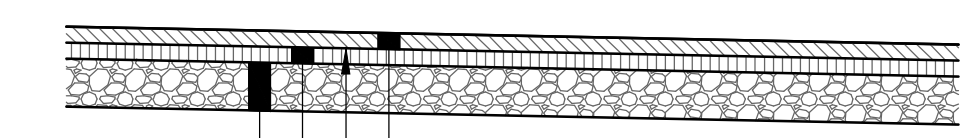
4" CONCRETE WALK
NOT TO SCALE



- 4" CONCRETE SIDEWALK PAVEMENT (SPEC 2521)
- 6" AGGREGATE BASE, CLASS 5 (SPEC 2211) (INCIDENTAL)
- SUBGRADE PREPARATION (SPEC 2112) (TYP)

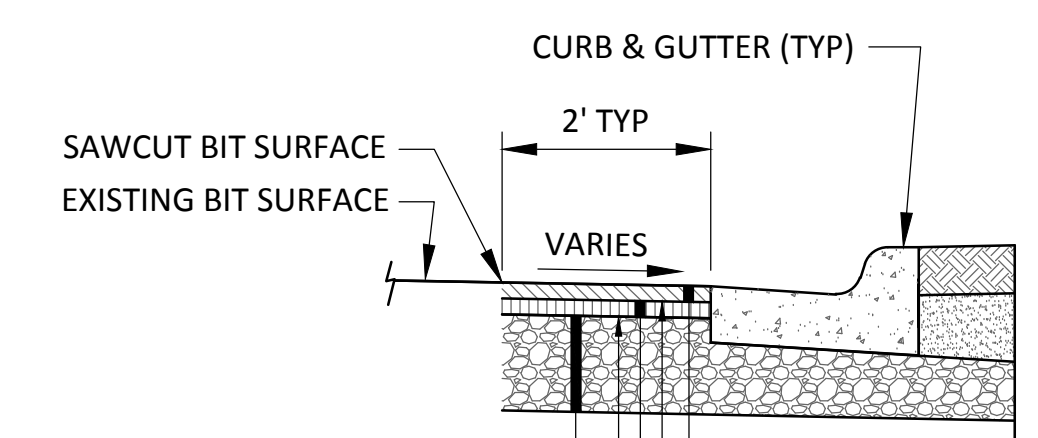
CONCRETE RIBBON AT BUILDING ENTRANCE
NOT TO SCALE

NOTE:
ALL ORGANIC OR UNSUITABLE MATERIAL SHALL BE AS REMOVED FROM BENEATH THE ROADWAY.



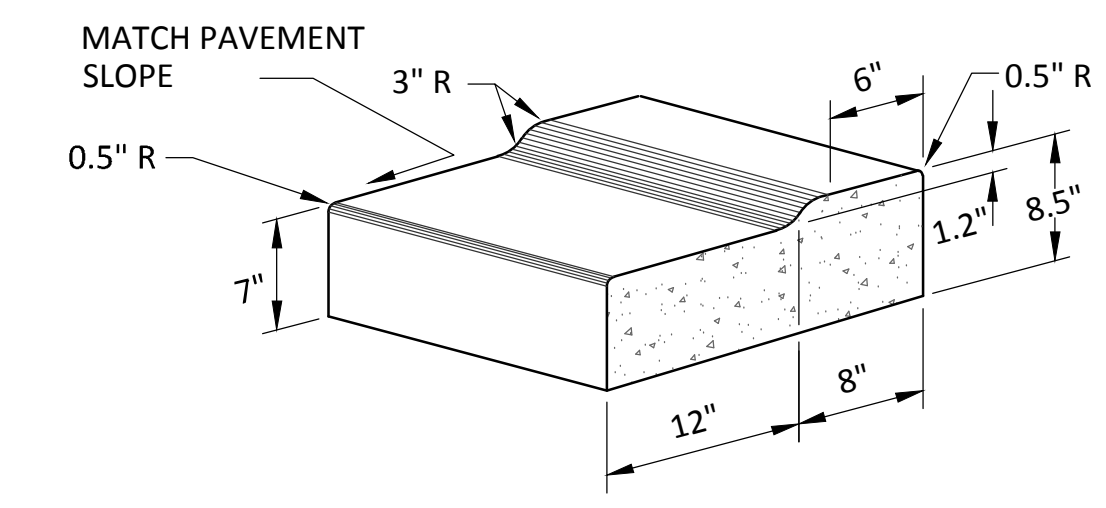
- 1.5" TYPE SP 9.5 WEARING COURSE (2,B)(SPWEA240B) (2360)
- BITUMINOUS TACK COAT (2357) (INCIDENTAL)
- 2" TYPE SP 12.5 NON-WEARING COURSE (2,B)(SPNWB230B) (2360)
- 8" AGGREGATE BASE, CL 5 (2211)

TYPICAL BITUMINOUS PARKING LOT SECTION
NOT TO SCALE

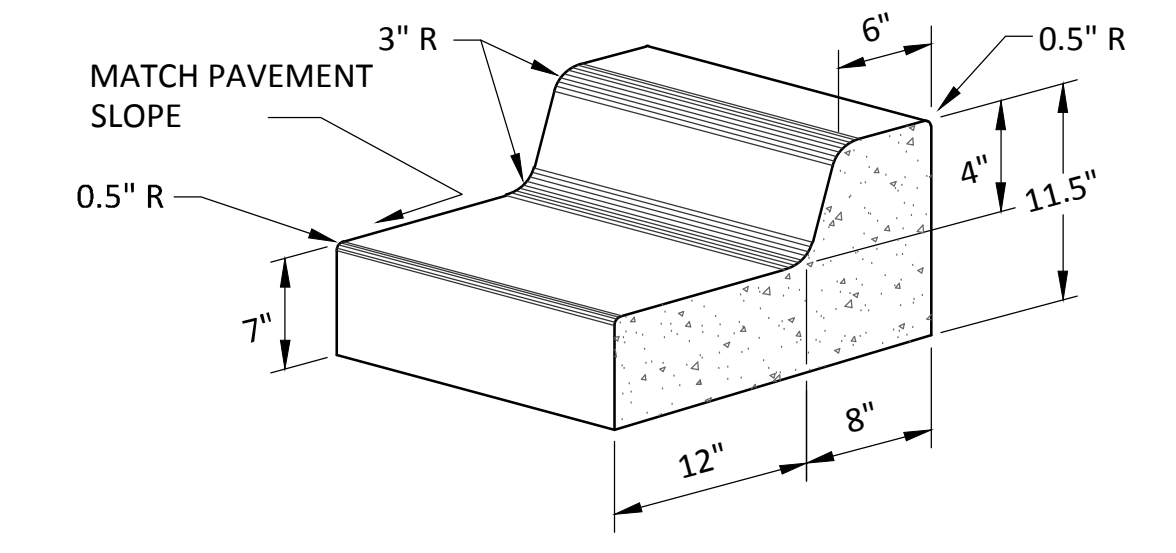


- 2" TYPE SP 9.5 WEARING COURSE (2,B)(SPWEA240B) (2360)
- BITUMINOUS TACK COAT (2357) (INCIDENTAL)
- 2" TYPE SP 12.5 WEARING COURSE (2,C)(SPWEB240C) (2360)
- BITUMINOUS TACK COAT (2357) (INCIDENTAL)
- 8" AGGREGATE BASE, CL 5 (2211)

BITUMINOUS REPAIR, CURB AND GUTTER INSTALLATION
NOT TO SCALE



CONCRETE CURB & GUTTER AT TRANSITION AREAS
NOT TO SCALE



CONCRETE CURB & GUTTER DESIGN B412
NOT TO SCALE

NOTE: DETAILS NOT TO SCALE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
CODY L. HOLMES
LIC. NO. 49143 DATE 3/3/2015

DESIGNED: CLH
DRAWN: JEN
CHECKED: CLH

BOLTON & MENK, INC.
Consulting Engineers & Surveyors
MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN BURNSVILLE, MN
WILLMAR, MN CHASKA, MN RAMSEY, MN MAPLEWOOD, MN
BAXTER, MN ROCHESTER, MN AMES, IA SPENCER, IA

REV.	BY	DATE

PSD LLC, RAMSEY, MINNESOTA
PARKVIEW EAST APARTMENT COMPLEX
TYPICAL SECTIONS

SHEET
C1.7

STORMWATER POLLUTION PREVENTION PLAN NARRATIVE

Information contained in this SWPPP summarizes requirements of the GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM PROGRAM - Permit No: MN RI0000I as they apply to this project. All provisions of the permit including those not specifically cited herein shall apply to this project. The Contractor is responsible to be familiar with and comply with all conditions of the permit. The full text of the permit is available at: <http://www.pca.state.mn.us/index.php/water/water-types-and-programs/stormwater/construction-stormwater/mpca-to-re-issue-construction-stormwater-general-permit.html>.

SWPPP AMENDMENTS

Permittee must amend SWPPP as necessary to include additional requirements to correct problems identified or address the following situations.

1. There is a change in design, construction, operation, maintenance, weather or seasonal conditions.
2. Inspections or investigations by site owner or operators, USEPA or MPCA officials determine the SWPPP is not minimizing discharge of pollutants to surface waters or underground waters or discharges are causing water quality standard exceedances.
3. The SWPPP is not achieving the objectives of minimizing pollutants in stormwater discharges associated with construction activity, or the SWPPP is not consistent with the terms and conditions of the permit.
4. The MPCA determines that the project's stormwater discharges may cause, have reasonable potential to cause, or contribute to non-attainment of any applicable water quality standard, or the SWPPP does not incorporate the applicable requirements of the permit.

EROSION PREVENTION PRACTICES:

The location of areas not to be disturbed must be delineated on the project before site work begins.

Disturbance on steep slopes (>33.3%) shall be minimized. Where required, techniques such as phasing and stabilizing practices designed for steep slopes shall be used.

All exposed soils must be stabilized as soon as possible but in no case later than 7 days after the construction activity has temporarily or permanently ceased.

For public waters that have been promulgated "work in water restrictions" during fish spawning time frames, all exposed soil areas that are within 200 feet of the water's edge, and drain to these waters must complete stabilization within 24-hours during the time period.

Stormwater conveyance channels shall be routed around unstabilized areas. Erosion controls and velocity dissipation devices shall be used at outlets within and along the length of any constructed conveyance channel.

The normal wetted perimeter of all ditches or swales, including storm water management pond slopes, that drain waters from the site must be stabilized within 200' of any property edge or discharge point, including storm sewer inlets, within 24 hours of connection.

Stabilization of the remaining portions of any temporary or permanent ditches or swales with 7 calendar days after connecting to a surface water or property edge and construction in that portion of the ditch has temporary or permanently ceased.

Temporary or permanent ditches or swales used as sediment containment during construction do not need to be stabilized during temporary period of use and shall be stabilized within 24 hours after no longer used as sediment containment.

Mulch, hydromulch, tackifier, or similar practice shall not be used in any portion of a temporary or permanent drainage ditch. Refer to erosion and sediment control plan for temporary and permanent stabilization measures for ditches and swales.

Stormwater discharges shall be directed to vegetated areas where feasible. Velocity dissipation devices shall be used at discharge point.

Phased construction will be used to extent practical or as indicated in the plans to minimize exposed soils.

Rapid stabilization shall be of type and quantity indicated in the project specifications. Additional rapid stabilization may be necessary to minimize erosion throughout the duration of the project. Type and quantity shall be determined by the engineer or inspector prior to installation. In extreme cases, the contractor shall use any available rapid stabilization to immediately mitigate erosion, then further remedy the situation with approval by owner or engineer.

SEDIMENT CONTROL PRACTICES:

Practices must be established on all down gradient perimeters and be located up gradient of any buffer zones. Perimeter controls must be in place before up gradient land- disturbing activities begin and shall remain in place until final stabilization.

All sediment controls practices shall be re-installed if they have been adjusted or removed to accommodate short-term activities and replaced immediately after the short term activity has ceased. Short term activities shall be performed as quickly as possible. Sediment control practices shall be re-installed even before the next precipitation event if the activity is not complete.

All storm drains must be protected by appropriate BMPs during construction until all sources to the inlet have been stabilized. Inlet protection may be removed for specific safety concerns identified by the Permittee or

jurisdictional authority. The removal shall be documented in the SWPPP and retained on site. Temporary stockpiles must have silt fence or other effective sediment controls and shall not be placed in surface waters or natural buffers.

Vehicle tracking BMPs shall be installed to minimize track out of sediment from the construction site. Method shall be approved by engineer prior to commencement of construction activities. Street sweeping shall be used if vehicle tracking BMPs are not adequate to prevent sediment from being tracked onto the street.

Soil compaction shall be minimized and topsoil shall be preserved, unless infeasible or if construction activities dictate soil compaction or topsoil stripping.

A 100 foot natural buffer, or redundant BMPs (where a buffer is infeasible) must be maintained when a surface water is located within 100 feet of disturbance activities and site runoff flows to the surface water.

If polymers, flocculants, or other sedimentation treatment chemicals are used on site, 1) conventional erosion and sediment controls shall be sowed prior to chemical placement, 2) chemicals shall be chosen based on soil types, and expected turbidity, pH, and flow rate of stormwater flowing into the treatment system, and 3) chemicals shall be used with accepted engineering practices and dosing specifications.

TEMPORARY SEDIMENTATION BASINS:

The temporary sedimentation basin shall be constructed and made operational prior to disturbance of 5 or more acres draining to a common location.

Temporary sedimentation basins are required prior to runoff leaving the construction site or entering surface waters when 5 or more acres of disturbed soils drain to a common location. The basin must provide 3,600 cubic feet of storage below the outlet per acre drained. If hydraulic calculations are available, the temporary sedimentation basin must provide a storage volume equivalent to the 2-year, 24-hour storm, but in no case less than 1800 cubic feet per acre drained. The temporary sedimentation basin must be constructed and made operational concurrent with the start of soil disturbance up gradient of the pond. The temporary sedimentation basin shall be designed to prevent short circuiting. The outfall shall be designed to remove floatable debris, allow for complete drawdown of the pond for maintenance activities, and have energy dissipation. The emergency spillway shall be stabilized.

Temporary sedimentation basins shall be situated outside of surface waters and any required buffer zone, and must be designed to avoid draining wetlands, unless the impact is in compliance with the requirements of this permit.

Excessive sediment-laden water that is not properly filtered will not be permitted to discharge from site.

DEWATERING AND BASIN DRAINING

Turbid or sediment-laden waters related to dewatering or basin draining shall be discharged to a temporary or permanent sedimentation basin on the project site unless infeasible. The temporary or permanent basin may discharge to surface waters if the basin water has been visually checked to ensure adequate treatment has been obtained in the basin and that the nuisance conditions will not result from the discharge. Discharge points shall be adequately protected from erosion and proper velocity dissipation provided.

All water from dewatering or basin-draining activities must be discharged in a manner that does not cause nuisance conditions, erosion in the receiving channels or on down slope properties, or inundation in wetlands causing significant adverse impacts to the wetland.

If filters with backwash waters are used, the backwash water shall be hauled away for disposal, returned to the beginning of the treatment process, or incorporated into site in a manner that does not cause erosion. Backwash water may be discharged to sanitary sewer if permission is granted by the sanitary sewer authority.

POLLUTION PREVENTION:

Building products that have the potential to leach pollutants must be under cover to prevent discharge or protected by an effective means designed to minimize contact with stormwater.

Pesticides, herbicides, insecticides, fertilizers, treatment chemicals, and landscape materials must be under cover.

Hazardous materials and toxic waste must be properly stored in sealed containers to prevent spills, leaks or other discharge. Restricted access storage areas must be provided to prevent vandalism.

Solid waste must be stored, collected and disposed of in compliance with Minn. R. CH 7035.

Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. CH 7041.

Discharge of spilled or leaked chemicals, including fuel, from any area where chemicals or fuel will be loaded or unloaded shall be prevented using drip pans or absorbents. Supplies shall be available at all times to clean up discharged materials and that an appropriate disposal method must be available for recovered spilled materials.

Exterior vehicle or equipment washing on the project site shall be limited to a defined area of the site. Runoff from the washing area shall be contained in a sediment basin or other similarly effective controls and waste from the washing activity must be properly disposed of. No engine degreasing is allowed on site.

Effective containment for all liquid and solid wastes generated by concrete and other washout operations related to construction activity shall be effectively contained. Liquid and solid washout waste shall not contact the ground, and containment must be designed so that it does not result in runoff from the washout operations or areas. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

INFESTED WATERS:

MN DNR permits are not valid for work in waters that are designated as infested waters unless accompanied by and Infested Waters Permit or written notification from MN DNR that an Infested Waters Permit is not required. There is no exception for pre-existing permits. If a MN DNR Permit has been issued for the project and the water is later designated as infested, the Contractor shall halt all work covered by the MN DNR Permit until an Infested Water Permit or written notification that in Infested Water is not required is obtained.

INSPECTION & MAINTENANCE:

A trained person shall routinely inspect the entire construction site at least once every 7 days during active construction and within 24-hours after a rainfall event greater than 0.5 inches in 24 hours. Following an inspection that occurs within 24-hours after a rainfall event, the next inspection must be conducted within 7 days.

All inspections and maintenance conducted during construction must be recorded within 24 hours in writing and records must be retained with the SWPPP. Inspection report forms are available in the Project Specifications. Inspection report forms other than those provided shall be approved by the engineer.

Where parts of the project site have permanent cover, but work remains on other parts of the site, inspections may be reduced on these areas to once per month.

Where the site has permanent cover on all exposed areas and no construction activity is occurring anywhere on site, the site must be inspected during non-frozen conditions at least once per month for 12 months. Following the 12th month of permanent cover and no construction activity, inspections shall be terminated until construction activity resumes or notification from MPCA has been issued that erosion has been detected at the site.

During frozen ground conditions, inspections may be suspended and shall resume within 24 hours after runoff occurs or 24 hours prior to resuming construction activity, whichever is first.

Inspection and maintenance shall resume until another Permittee has obtained coverage under this Permit or the project has undergone Final Stabilization, and an NOT has been submitted.

All erosion prevention and sediment control BMPs shall be inspected to ensure integrity and effectiveness during all routine and post-rainfall inspections. All non-functioning BMPs must be repaired, replaced, or supplemented with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow access.

All perimeter control devices must be repaired, replaced, or supplemented when they become non-functional or the sediment reaches one-half (1/2) of the height of the device. These repairs must be made by the end of the next business day after discovery, or as soon as field conditions allow.

Temporary and permanent sediment basins must be drained and the sediment removed when the depth of sediment collected in the basin reaches one-half (1/2) the storage volume. Drainage and sediment removal must be completed within 72 hours of discovery, or as soon as field conditions allow.

Surface waters, including drainage ditches and conveyance systems, must be inspected for erosion and sediment deposition during each inspection. All deltas and sediment deposited in drainage ways, catch basins, and other drainage systems shall be removed. The removal and stabilization must take place within seven (7) days of discovery unless precluded by legal, regulatory, or physical access constraints. The Permittee is responsible for obtaining all applicable permits prior to conducting any work in surface waters.

Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved surfaces. Tracked sediment must be removed from all paved surfaces both on and off site within 24-hours of discovery, or if applicable, within a shorter time to comply with the permit.

Streets and other areas adjacent to the project must be inspected for evidence of off-site accumulations of sediment. If sediment is present, it must be removed in a manner and at a sufficient frequency to minimize off-site impacts.


All infiltration areas must be inspected to ensure that no sediment from ongoing construction activity is reaching the infiltration area and that equipment is not being driven across the infiltration area.

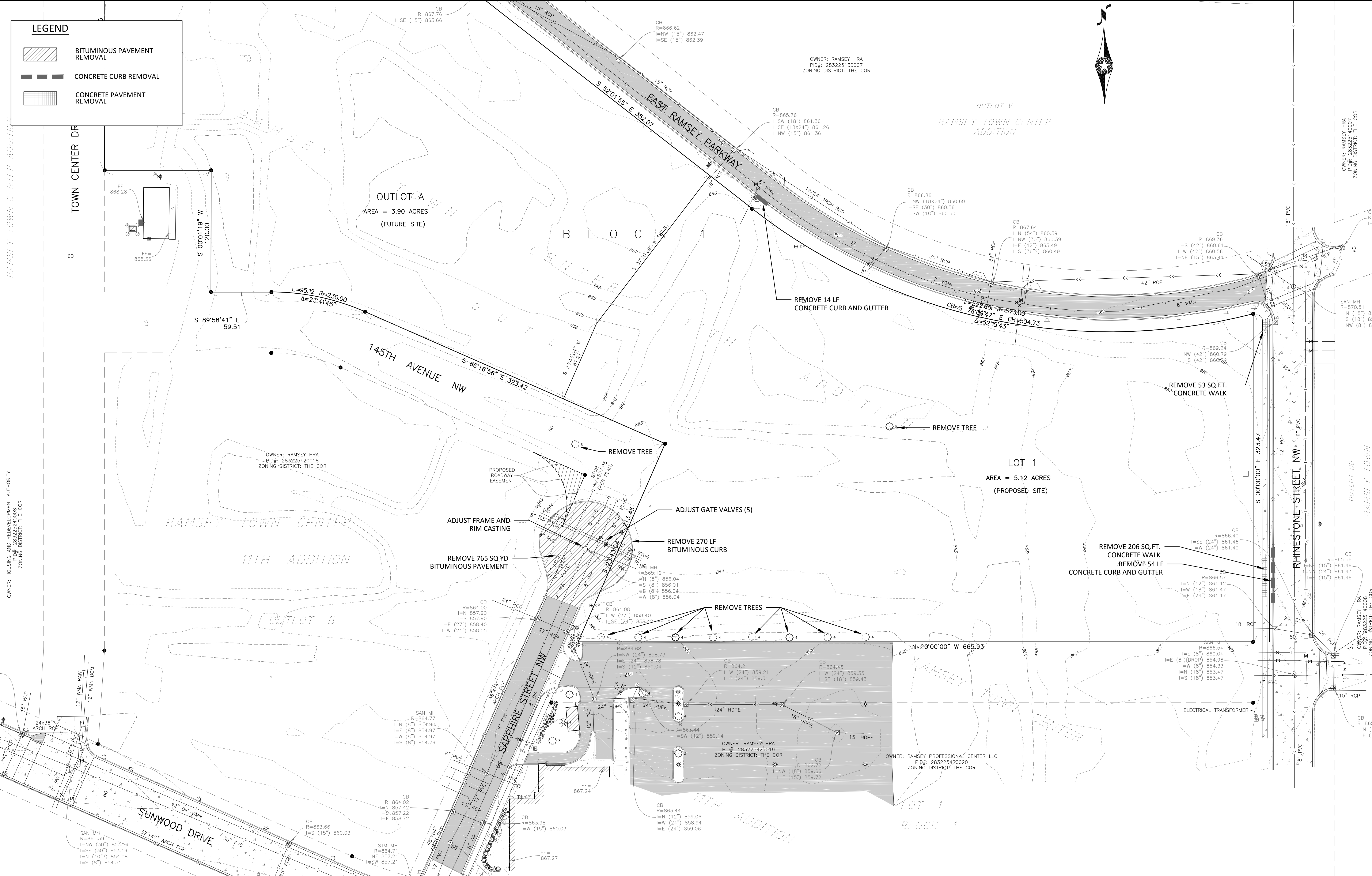
FINAL STABILIZATION:

Final Stabilization is not complete until all of the following requirements have been met:

1. All soil disturbing activities at the site have been completed and all soils are stabilized by a uniform perennial vegetative cover with a density of 70% of its expected final growth density over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under erosive conditions.
2. Permanent stormwater management system is constructed, meets all requirements of the Permit, and is operating as designed. Temporary or permanent sedimentation basins that are to be used as permanent water quality management basins have been cleaned of any accumulated sediment. All sediment has been removed from conveyance systems, and ditches are stabilized with permanent cover.
3. All temporary synthetic and structural erosion prevention and sediment control BMPs have been removed. BMPs designed to decompose on site may be left in place.
4. For residential construction only, individual lots are considered finally stabilized if the structure(s) are finished, temporary erosion protection and down gradient perimeter control has been completed and the residence has been sold to the homeowner. Also, the "Homeowner Fact Sheet" has been provided to the homeowner.

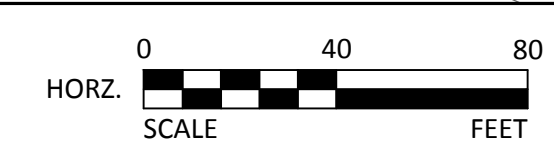
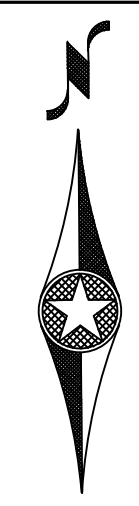
NARRATIVE

© Bolton & Menk, Inc. 2015, All Rights Reserved H:\PSDLLC_PR\R16109475\CAD\C3D\SWPPP\SWPPP_02_27_2015\CAD\SWPPP_2_NARRATIVE.dwg 3/3/15 2:44 pm	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	DESIGNED: CLH	 BOLTON & MENK, INC. Consulting Engineers & Surveyors MANKATO, MN FAIRMONT, MN SLEEPY EYE, MN BURNSVILLE, MN WILLMAR, MN CHASKA, MN RAMSEY, MN MAPLEWOOD, MN BAXTER, MN ROCHESTER, MN AMES, IA SPENCER, IA	REV. BY DATE	PSD LLC, RAMSEY, MINNESOTA PARKVIEW EAST APARTMENT COMPLEX	SHEET C2.1	
	CODY L. HOLMES LIC. NO. 49143 DATE 3/3/2015	DRAWN: JEN		CHECKED: CLH	_____ _____ _____ _____		STORMWATER POLLUTION PREVENTION PLAN
				_____ _____ _____ _____			
				_____ _____ _____ _____			



LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE CURB REMOVAL
- CONCRETE PAVEMENT REMOVAL



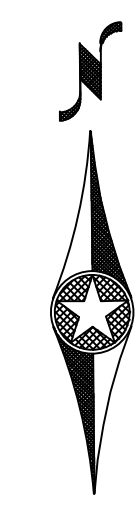
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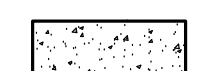


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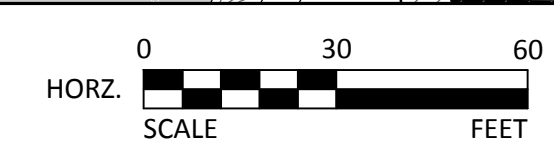
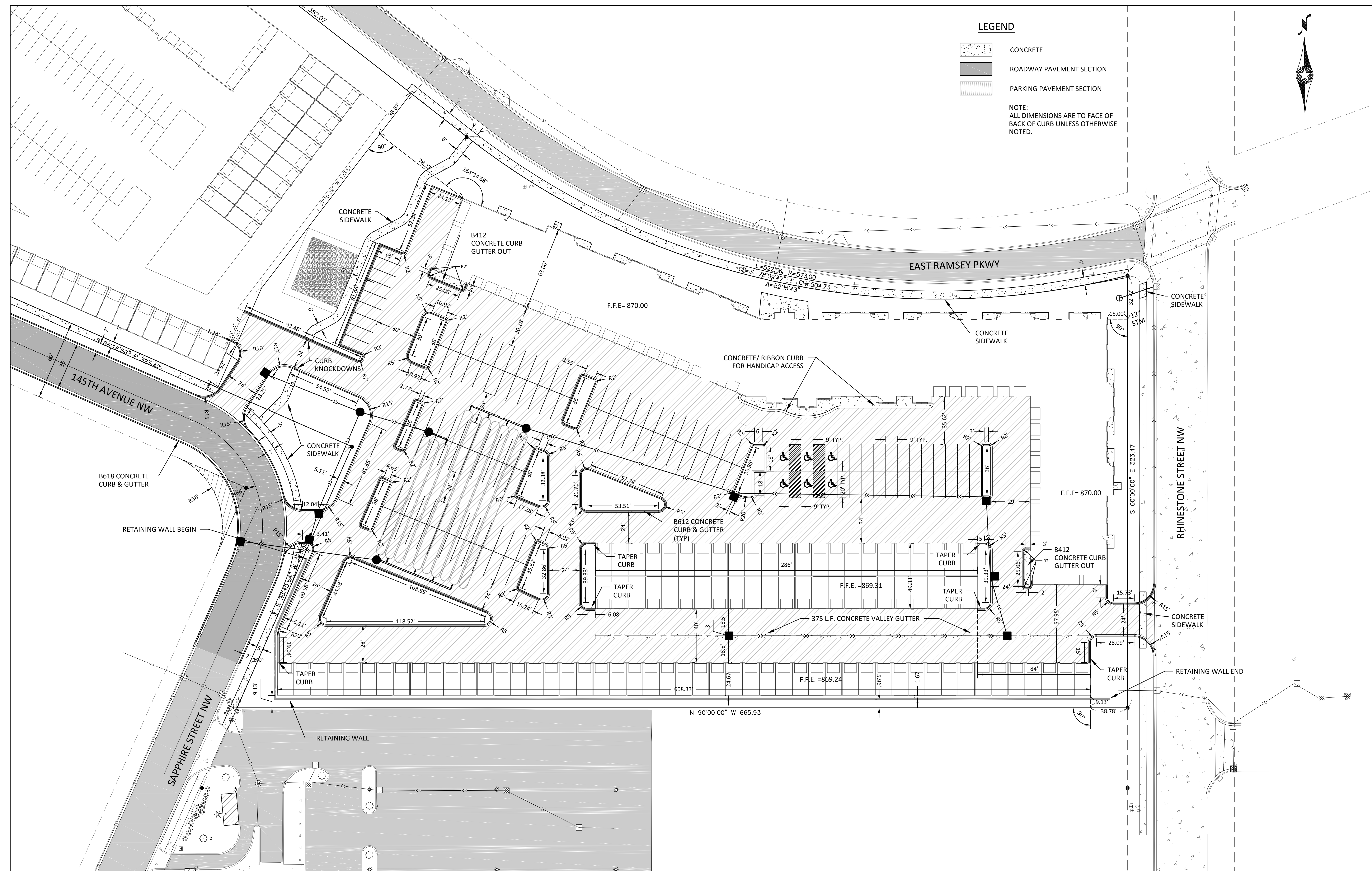
REV.	BY	DATE	PSD LLC, RAMSEY, MINNESOTA PARKVIEW EAST APARTMENT COMPLEX	SHEET C2.3
			EXISTING CONDITIONS AND REMOVALS	



LEGEND

-  CONCRETE
-  ROADWAY PAVEMENT SECTION
-  PARKING PAVEMENT SECTION

NOTE:
ALL DIMENSIONS ARE TO FACE OF
BACK OF CURB UNLESS OTHERWISE
NOTED.



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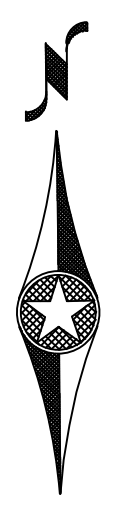
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REV.	BY	DATE

PSD LLC, RAMSEY, MINNESOTA
 PARKVIEW EAST APARTMENT COMPLEX
 SITE PLAN

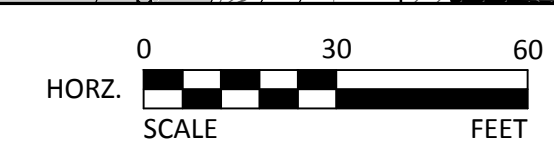
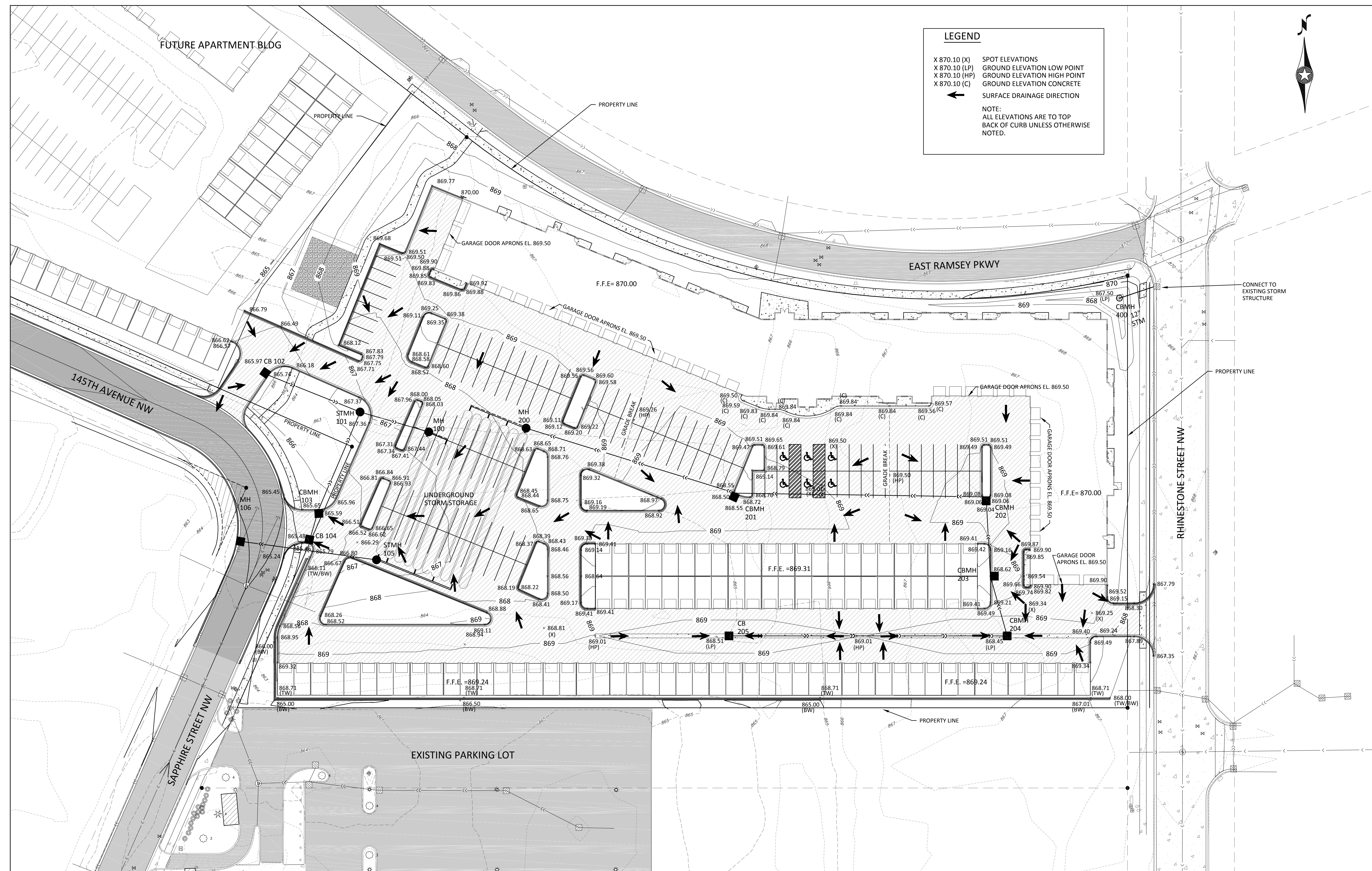
SHEET
C2.4



LEGEND

- X 870.10 (X) SPOT ELEVATIONS
- X 870.10 (LP) GROUND ELEVATION LOW POINT
- X 870.10 (HP) GROUND ELEVATION HIGH POINT
- X 870.10 (C) GROUND ELEVATION CONCRETE
- ← SURFACE DRAINAGE DIRECTION

NOTE:
ALL ELEVATIONS ARE TO TOP
BACK OF CURB UNLESS OTHERWISE
NOTED.



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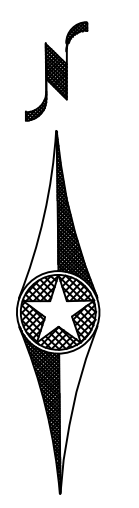
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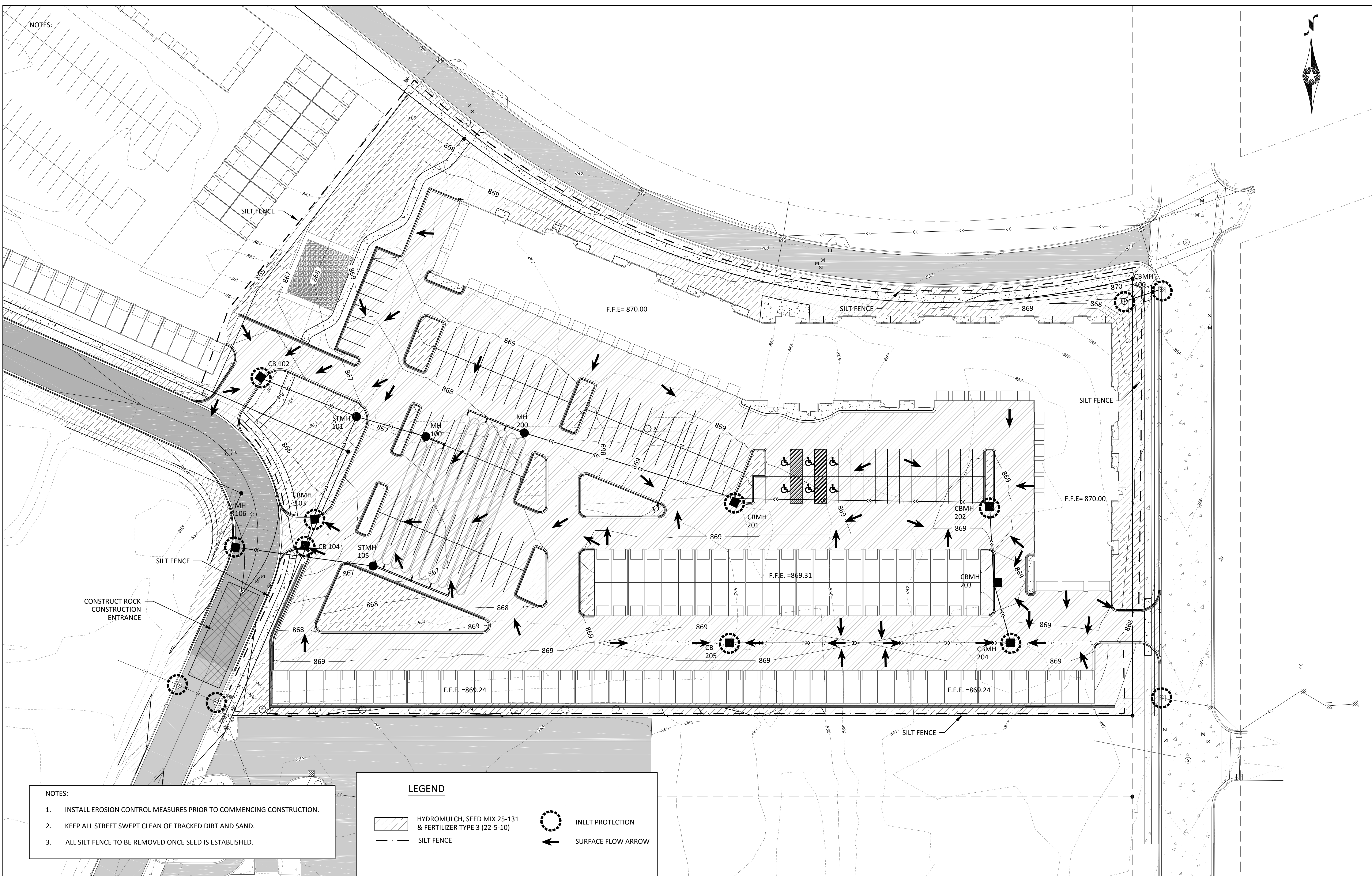
REV.	BY	DATE

PSD LLC, RAMSEY, MINNESOTA
PARKVIEW EAST APARTMENT COMPLEX
GRADING & STORM UTILITY PLAN

SHEET C2.5



NOTES:



- NOTES:
1. INSTALL EROSION CONTROL MEASURES PRIOR TO COMMENCING CONSTRUCTION.
 2. KEEP ALL STREET SWEEP CLEAN OF TRACKED DIRT AND SAND.
 3. ALL SILT FENCE TO BE REMOVED ONCE SEED IS ESTABLISHED.

LEGEND

	HYDROMULCH, SEED MIX 25-131 & FERTILIZER TYPE 3 (22-5-10)		INLET PROTECTION
	SILT FENCE		SURFACE FLOW ARROW



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REV.	BY	DATE

PSD LLC, RAMSEY, MINNESOTA
PARKVIEW EAST APARTMENT COMPLEX
EROSION CONTROL PLAN


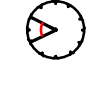
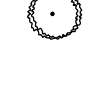
SHEET
C2.6

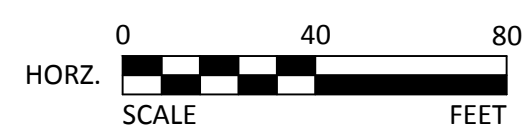
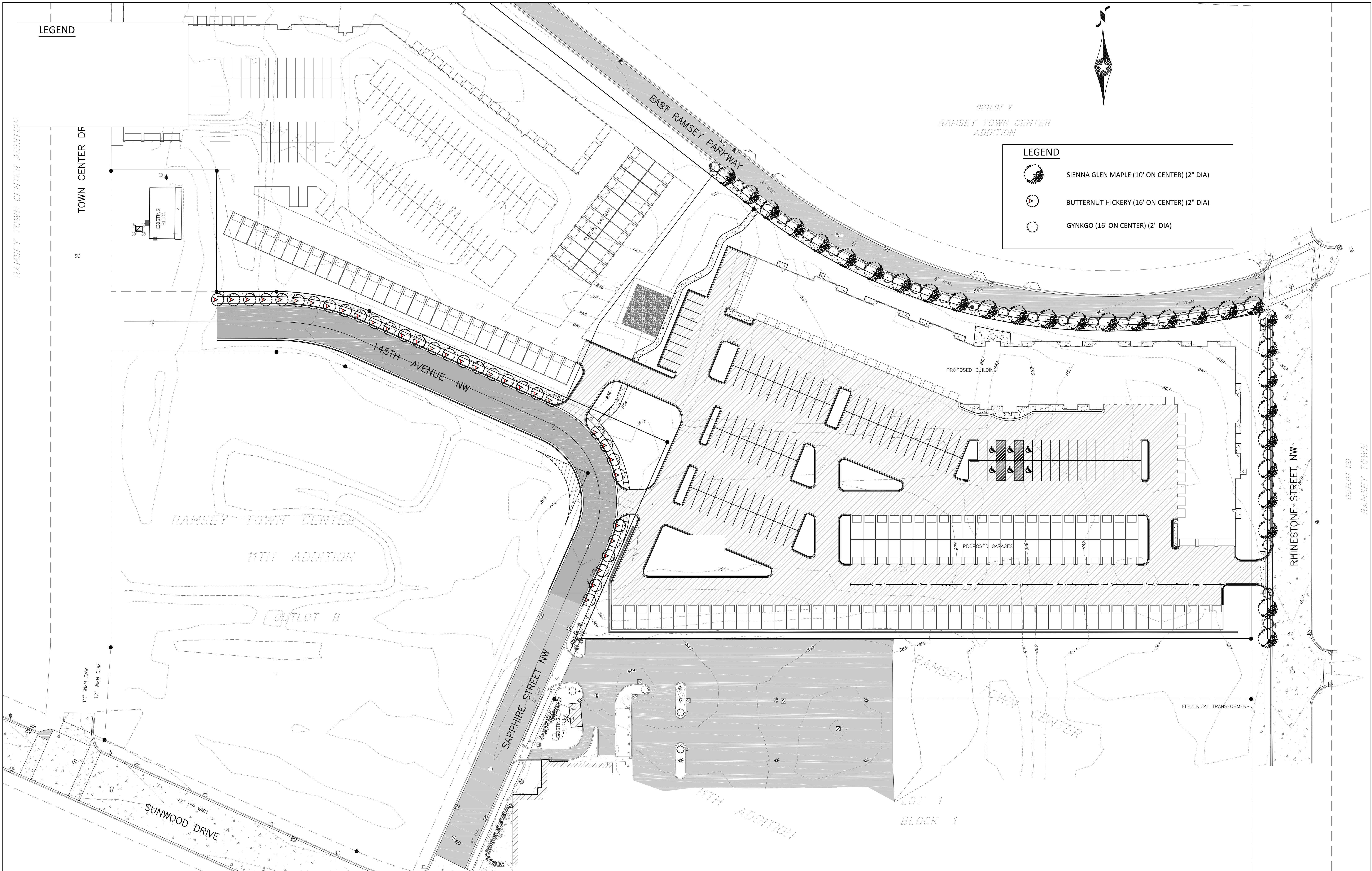
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LEGEND



LEGEND

-  SIENNA GLEN MAPLE (10' ON CENTER) (2" DIA)
-  BUTTERNUT HICKERY (16' ON CENTER) (2" DIA)
-  GYNKGO (16' ON CENTER) (2" DIA)



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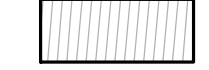
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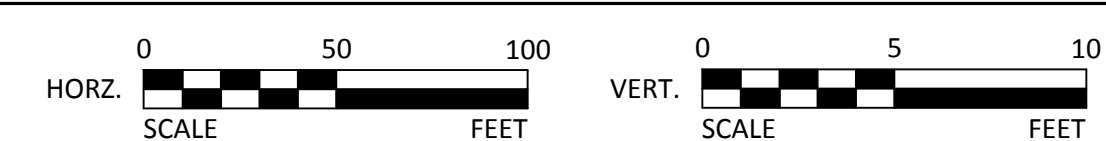
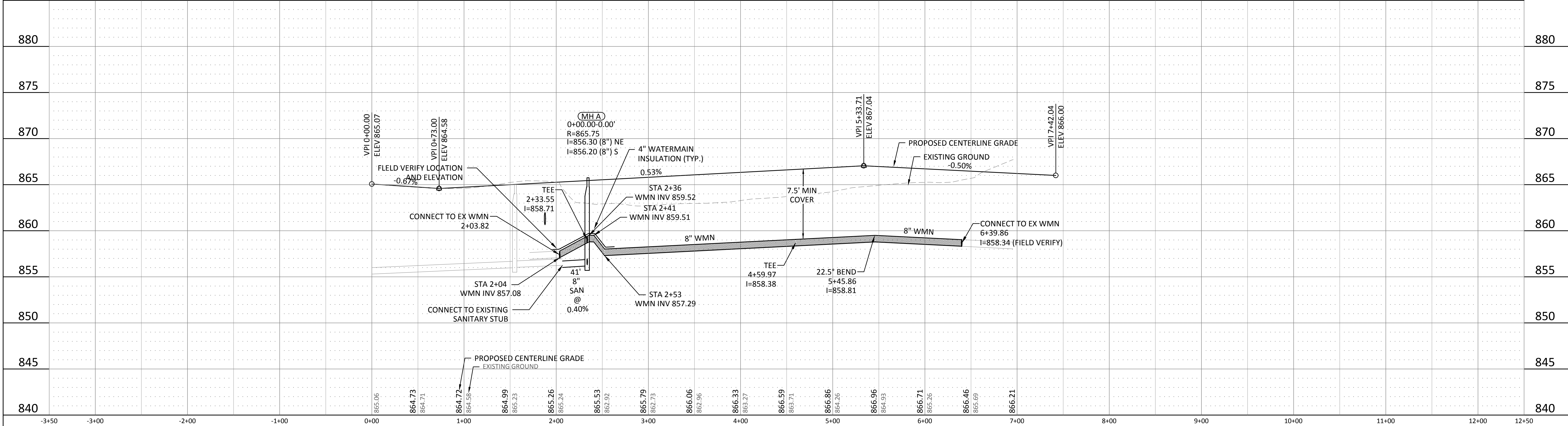
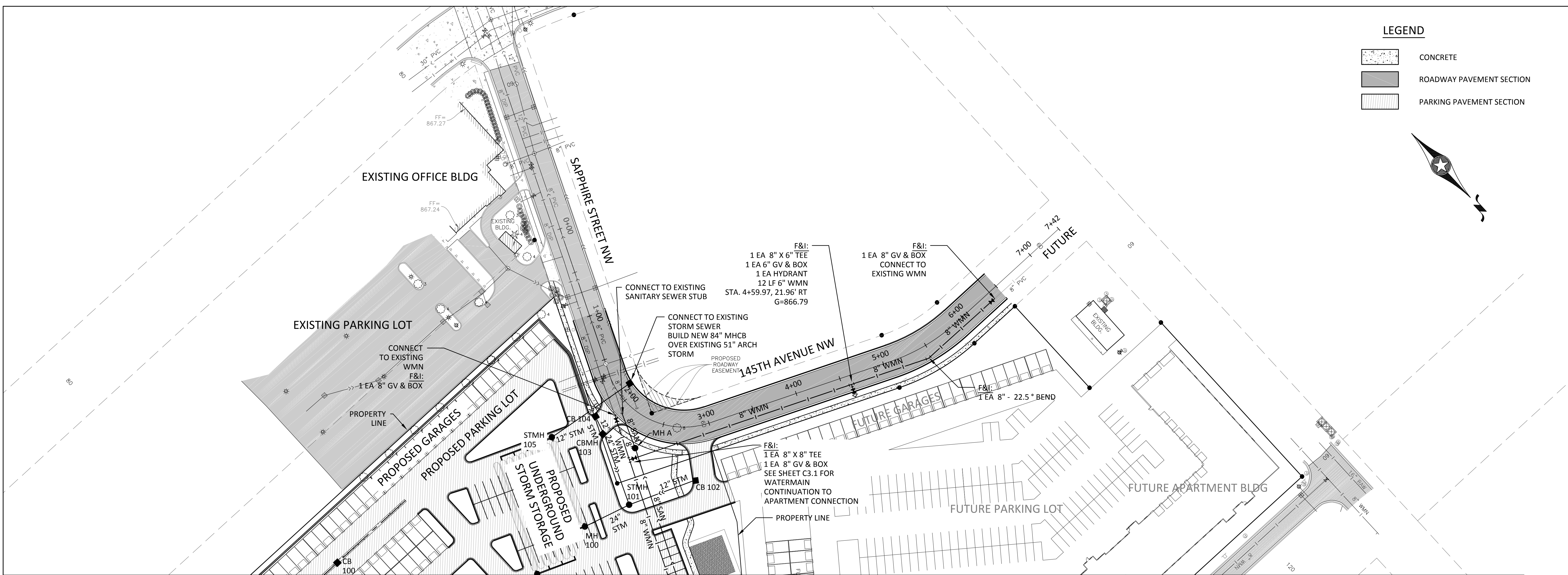
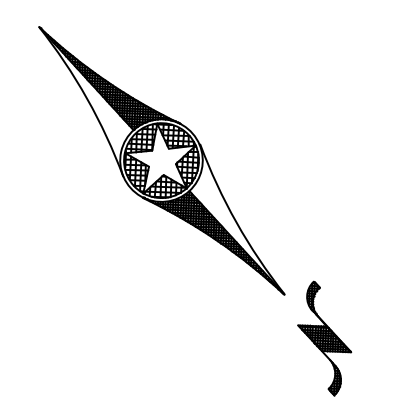
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 PARKVIEW EAST APARTMENT COMPLEX
 LANDSCAPE TREE PLAN

SHEET
C2.7

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LEGEND

-  CONCRETE
-  ROADWAY PAVEMENT SECTION
-  PARKING PAVEMENT SECTION



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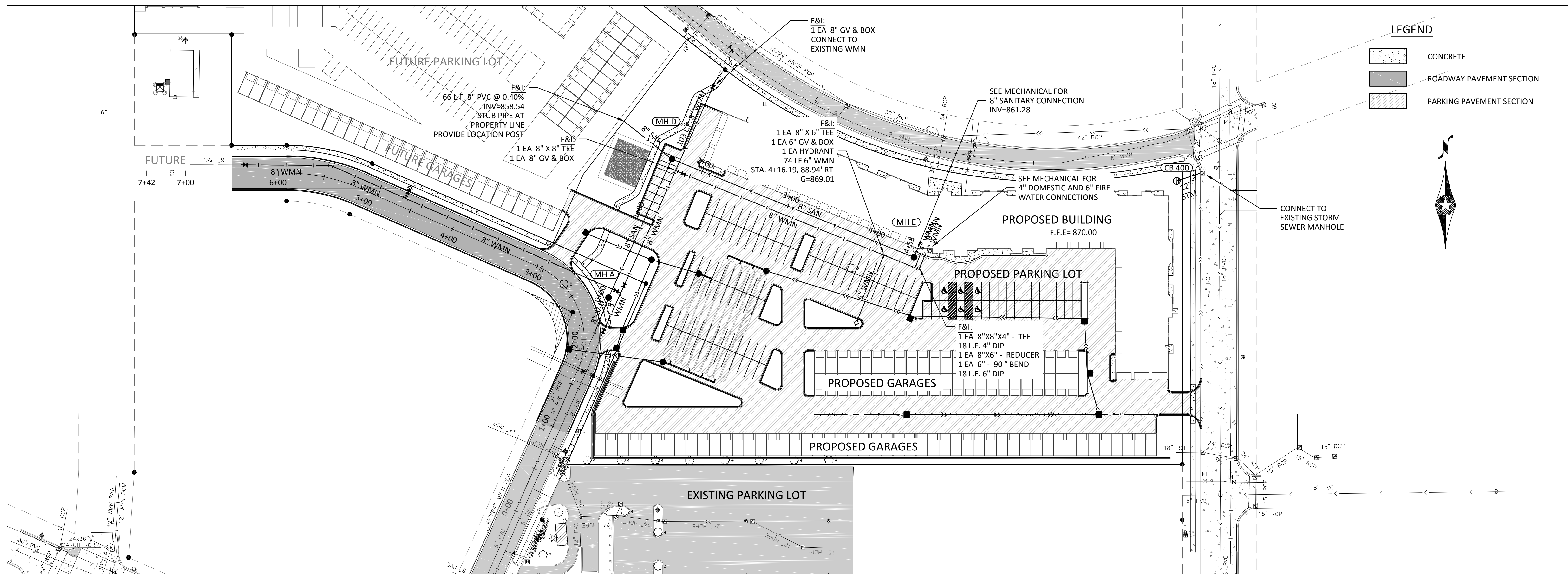
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REV.	BY	DATE	SHEET
			C3.0

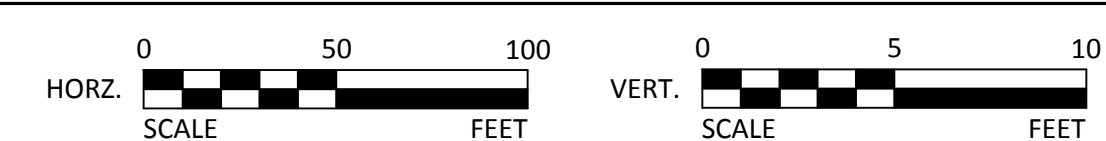
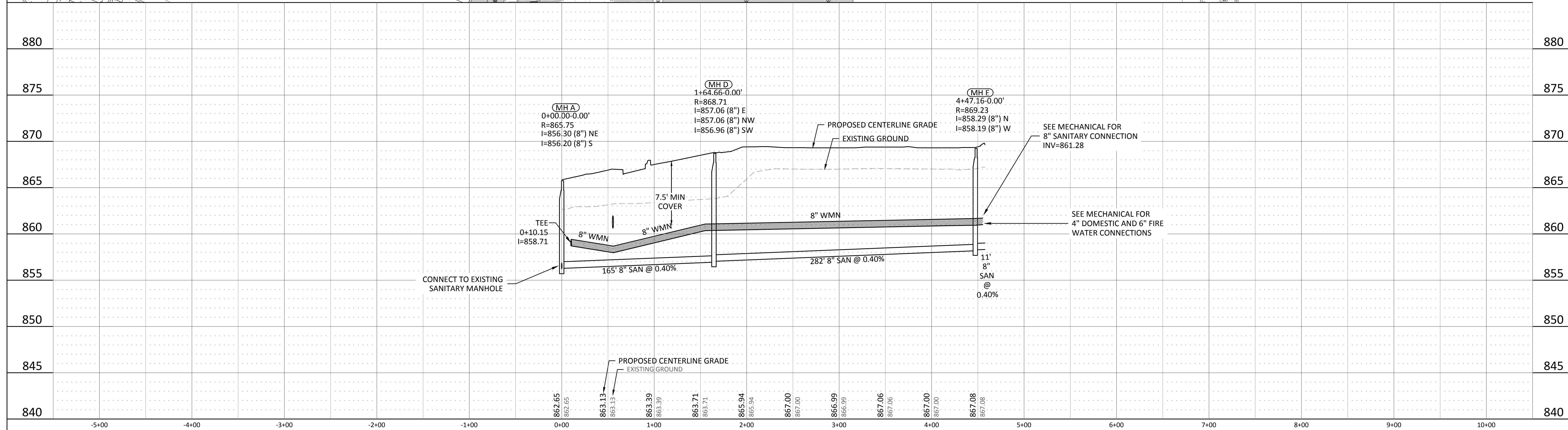
PSD LLC, RAMSEY, MINNESOTA
PARKVIEW EAST APARTMENT COMPLEX
PLAN AND PROFILE - 145TH AVENUE NW

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LEGEND

	CONCRETE
	ROADWAY PAVEMENT SECTION
	PARKING PAVEMENT SECTION



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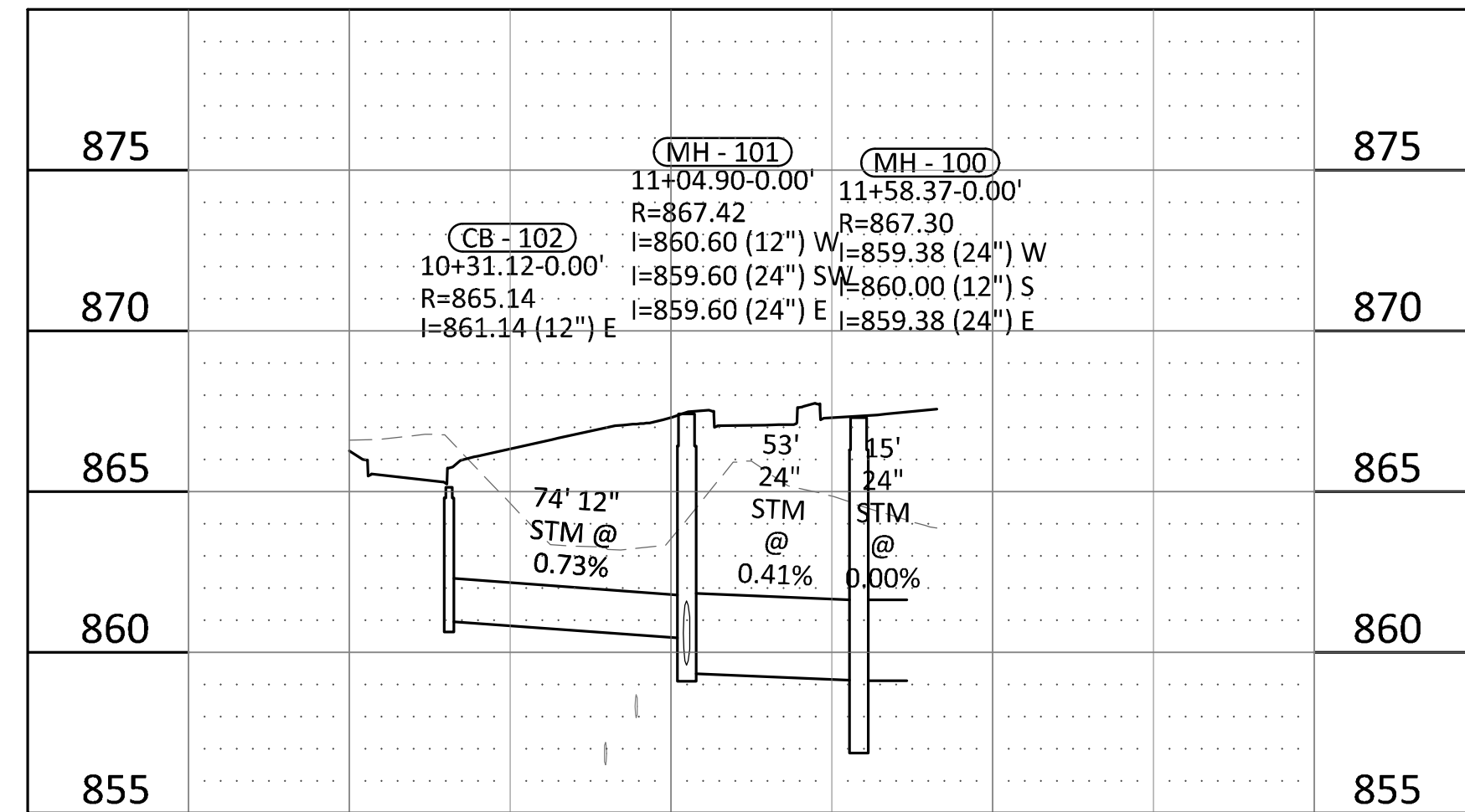
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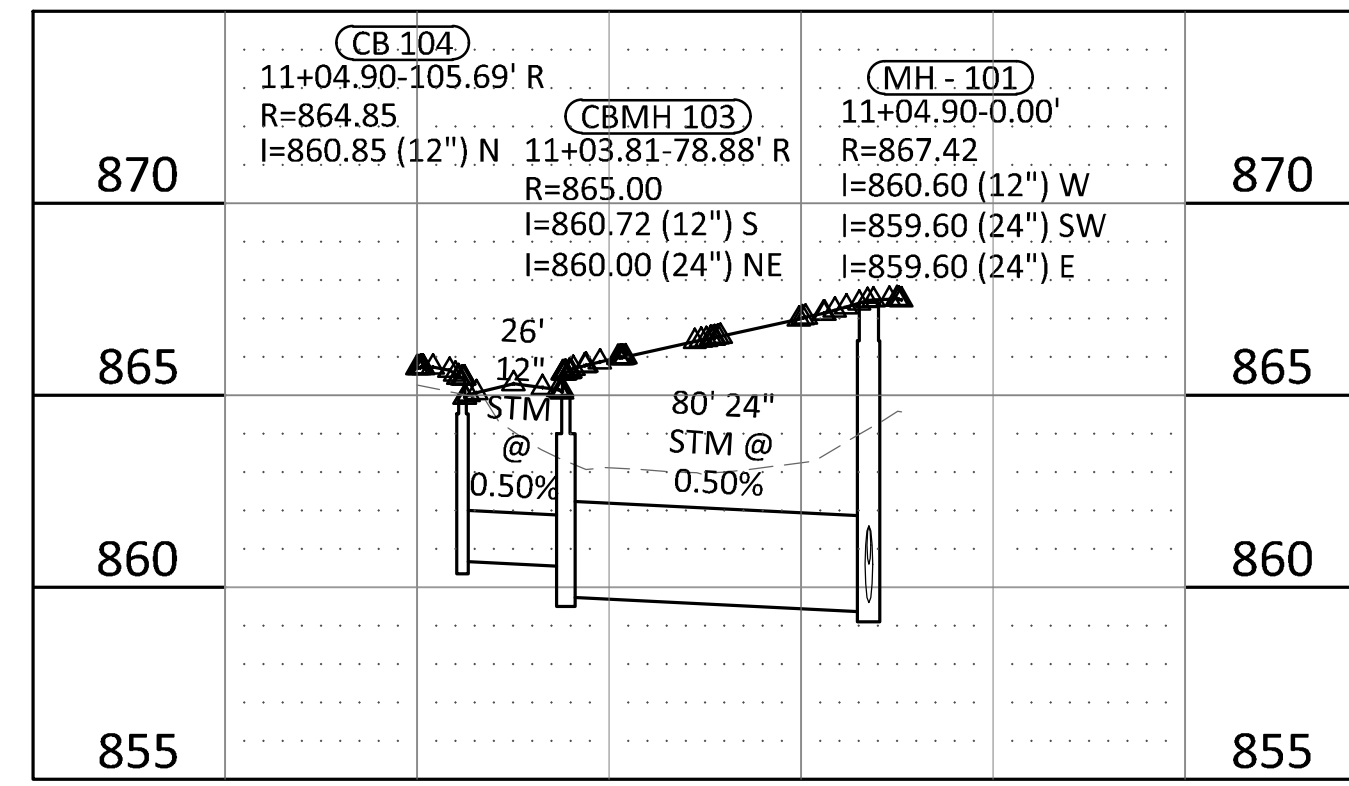
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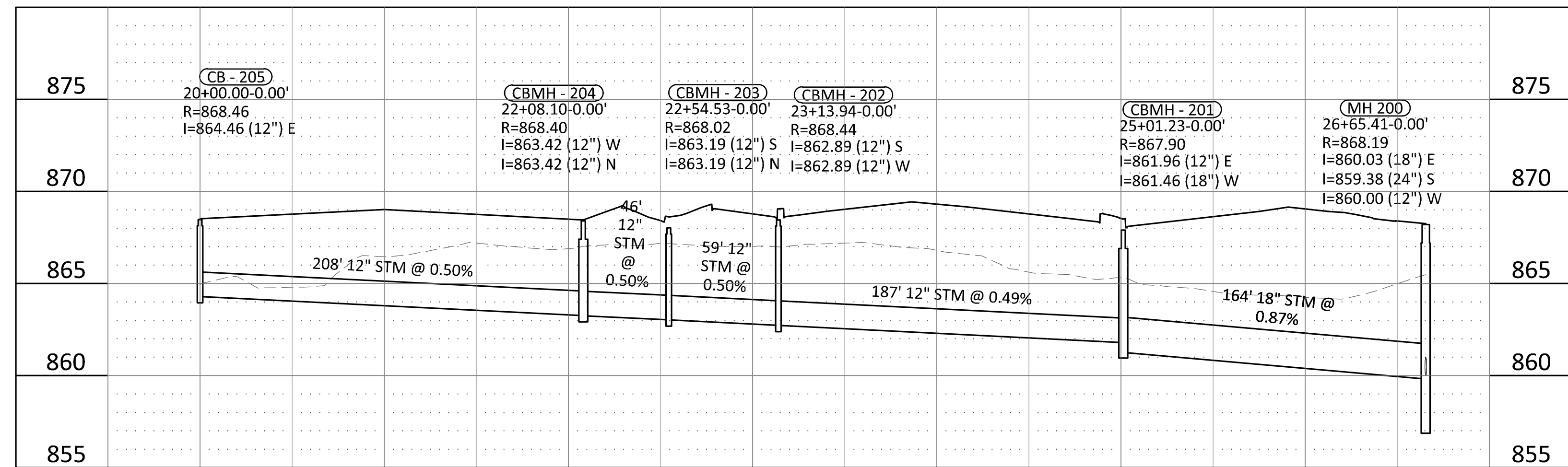
REV.	BY	DATE	PSD LLC, RAMSEY, MINNESOTA	SHEET
			PARKVIEW EAST APARTMENT COMPLEX	C3.1
			PLAN AND PROFILE - PARKVIEW SITE	



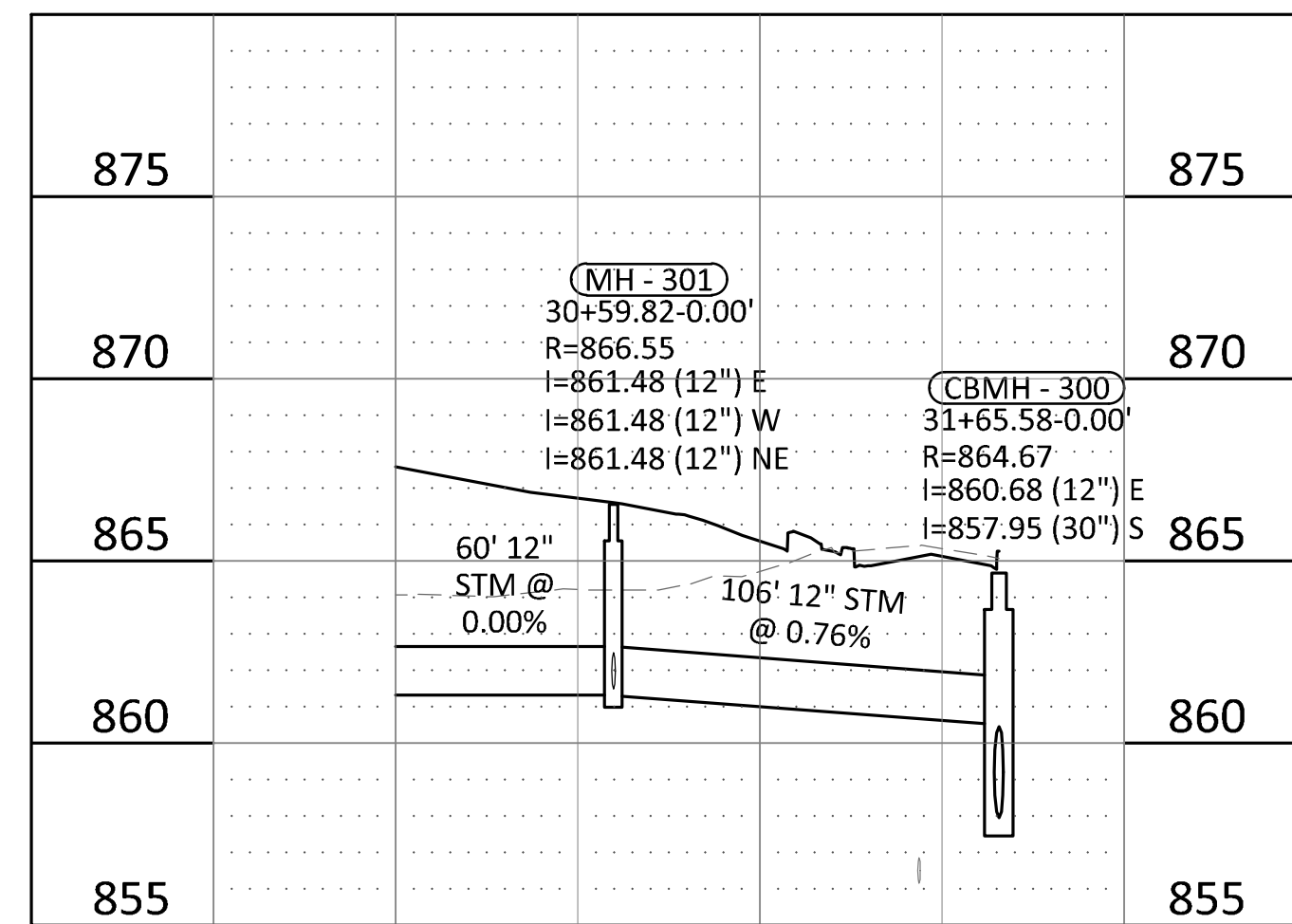
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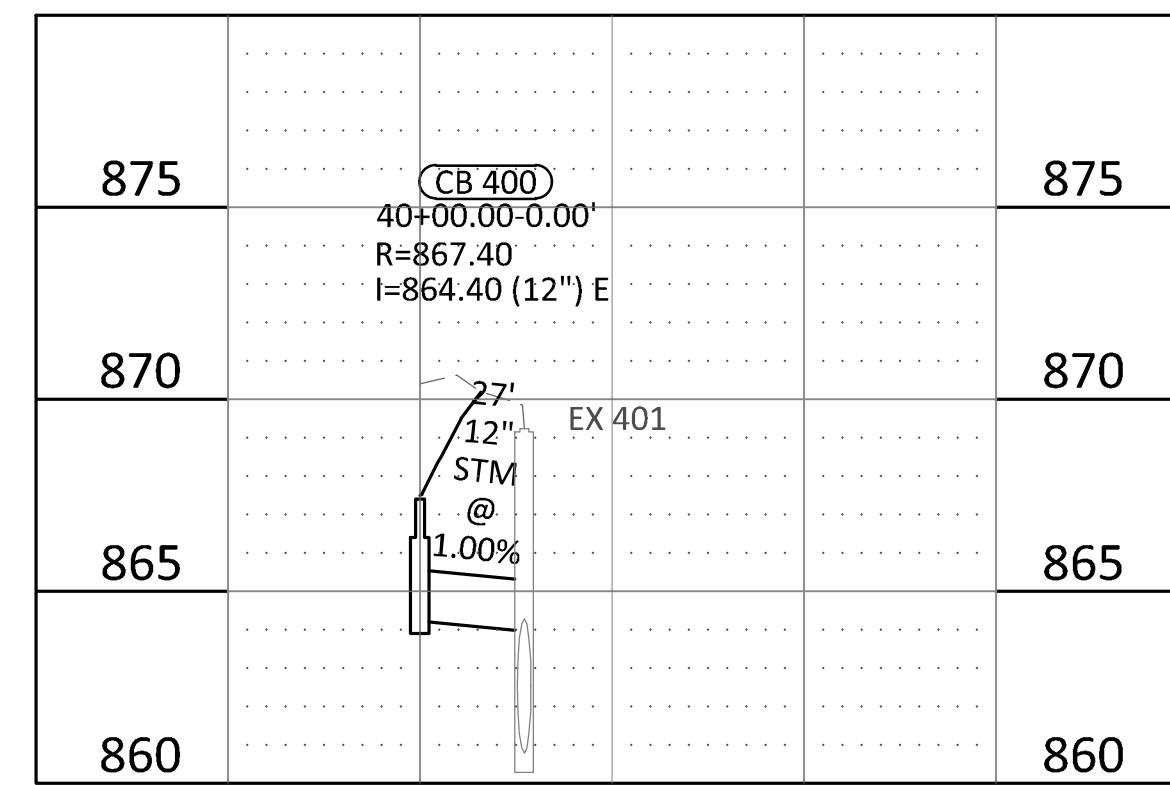
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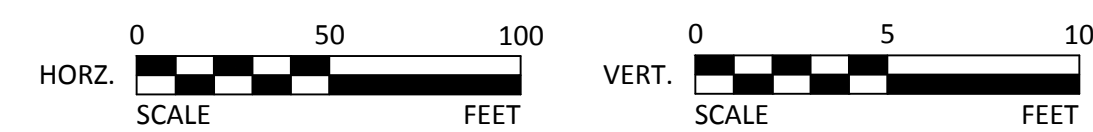
CB-205 TO CB-200



STORAGE BASIN TO CB-300



CB-400 TO EX-401



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PARKVIEW EAST APARTMENT COMPLEX
STORM SEWER PROFILES

SHEET
C3.2