

# DEJA'S DOGGIE DAYCARE

CONSTRUCTION PLANS FOR SITE GRADING, STORM SEWER, CONCRETE CURB AND GUTTER,  
BITUMINOUS PAVING AND MISCELLANEOUS CONSTRUCTION

FOR ROMAN ROOS  
IN THE CITY OF OAK GROVE

## GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION  
"STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

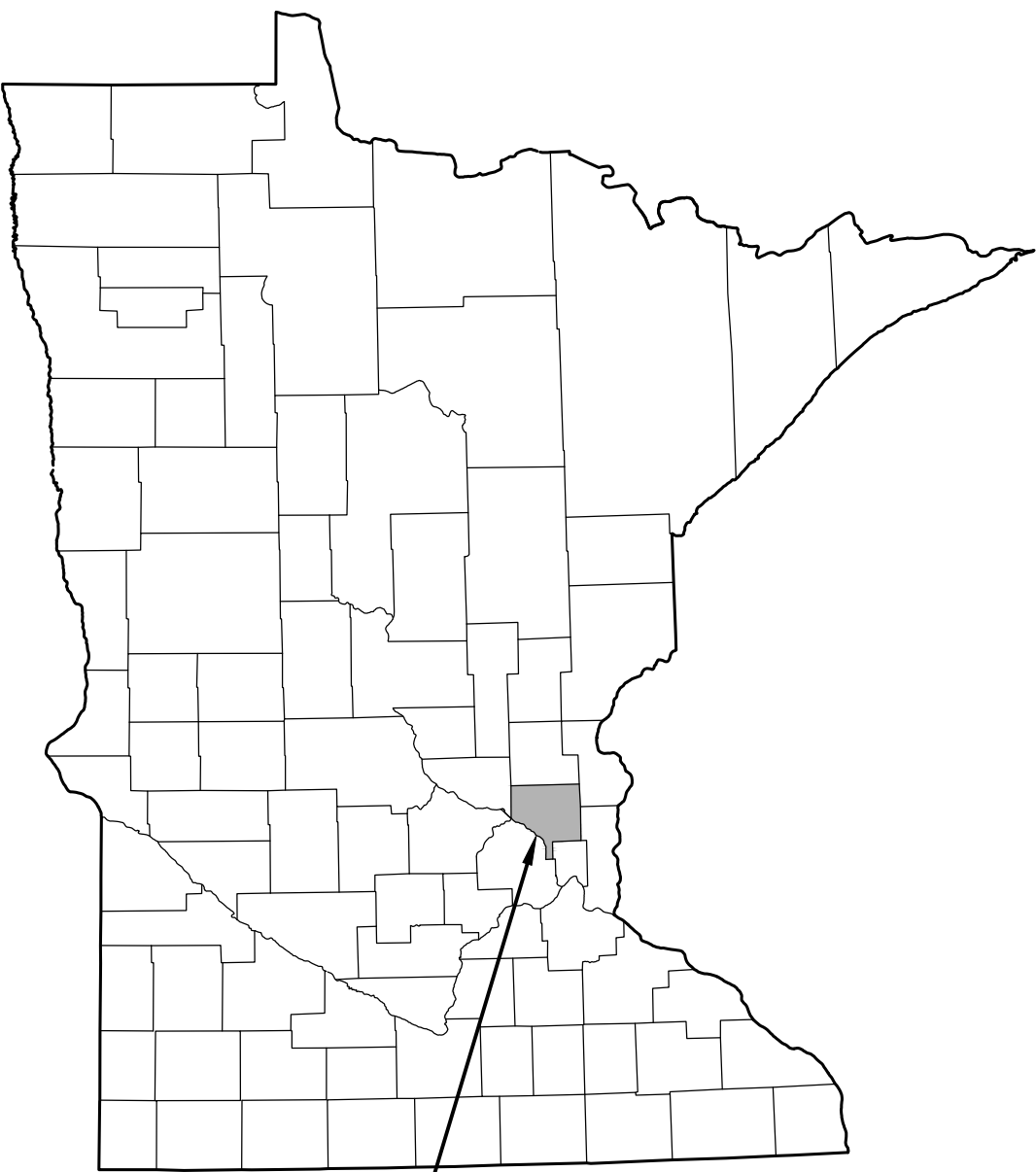
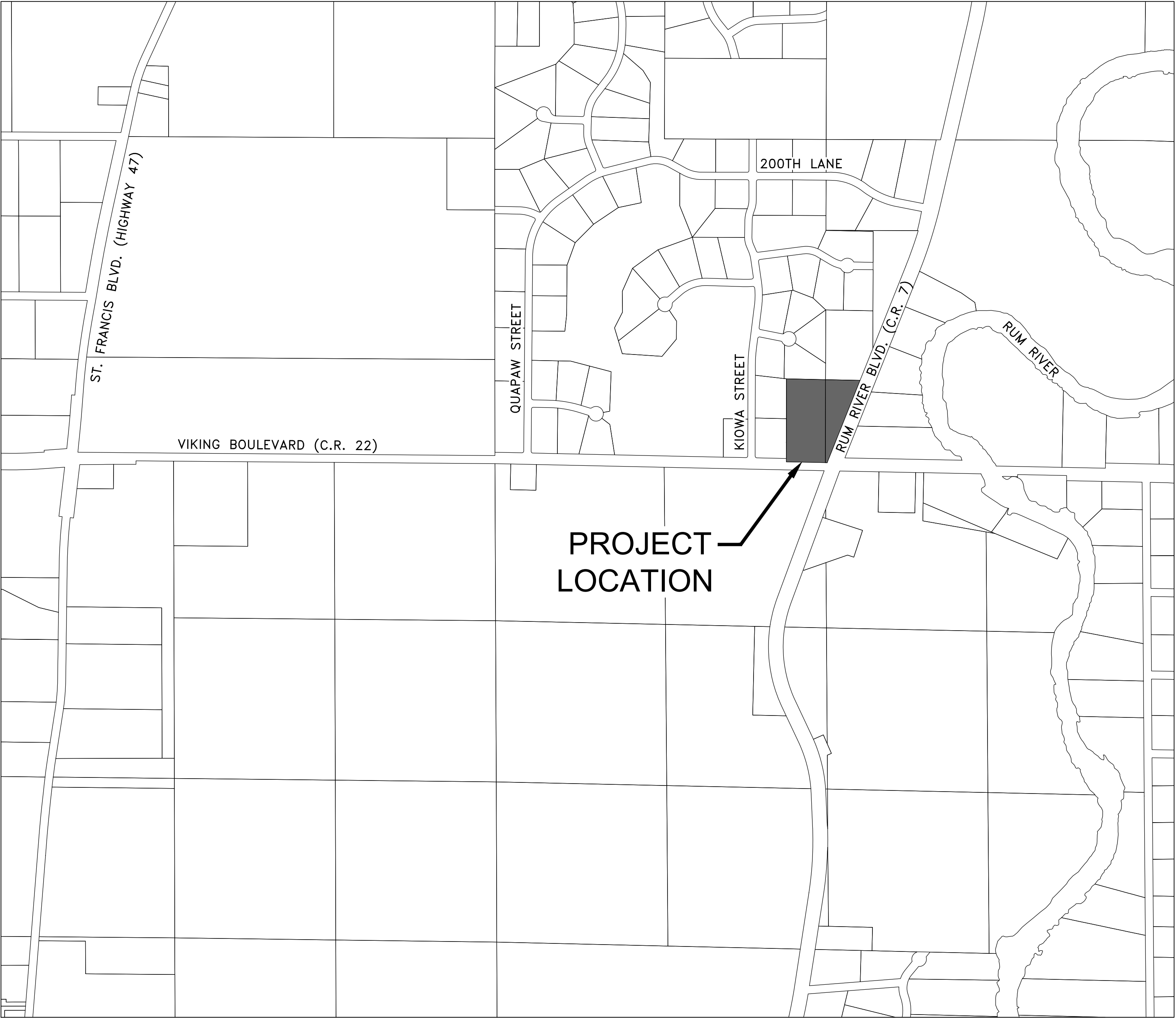
ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, AND ORDINANCES  
SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE  
LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL  
DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC  
CONTROL ZONE LAYOUTS.

## SHEET INDEX

THIS PLAN CONTAINS 16 SHEETS

SHEET NO.	DESCRIPTION
C1	TITLE SHEET
C2	CONSTRUCTION NOTES, PROJECT LEGEND AND DETAILS
C3	DETAILS
C4-C5	CITY STANDARD DETAILS
C6	EXISTING TOPOGRAPHY AND REMOVALS PLAN
C7	EXISTING TOPOGRAPHY AND REMOVALS PLAN-RUM RIVER BOULEVARD
C8	GRADING, DRAINAGE AND EROSION CONTROL PLAN
C9	STAKING PLAN
C10	UTILITY PLAN
C11	PAVING AND RESTORATION PLAN
C12	RESTORATION PLAN-RUM RIVER BOULEVARD
C13	TRAFFIC CONTROL PLAN-RUM RIVER BOULEVARD
C14	RIGHT TURN LANE CONSTRUCTION PLAN-RUM RIVER BOULEVARD
C15-C16	CROSS SECTIONS-RUM RIVER BOULEVARD

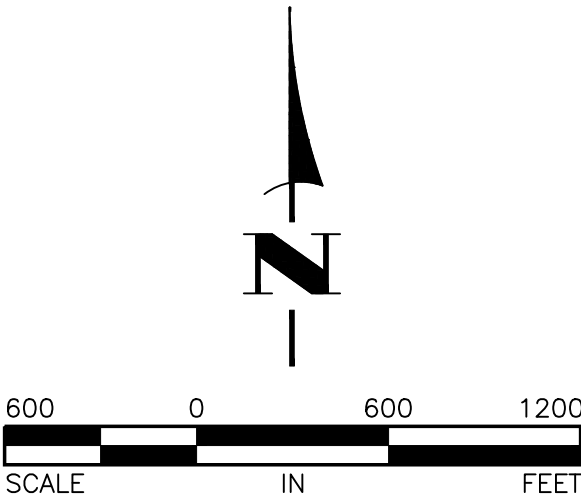


CITY OF OAK GROVE,  
ANOKA COUNTY,  
MINNESOTA

THE SUBSURFACE UTILITY INFORMATION IN  
THIS PLAN IS UTILITY QUALITY LEVEL D.  
THIS 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."

**Hakanson  
Anderson**

Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520



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.

*Tim Eggerichs*  
TIMOTHY A. EGGERICHS, P.E.  
HAKANSON ANDERSON  
DESIGN ENGINEER

43362 DATE 9/17/20  
LIC. NO.

DATE	REVISION
10/1/20	ISSUED FOR REVIEW

SHEET C1 OF C16 SHEETS

GENERAL CONSTRUCTION AND SOILS NOTES:

- UNLESS OTHERWISE RECOMMENDED IN THESE PLANS, THE GRADING SUBGRADE SHALL BE CONSTRUCTED OF SUITABLE GRADING MATERIAL. THE FILL SHALL BE PLACED IN 8" TO 10" LOOSE LIFTS, AND COMPACTED TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
- SUITABLE GRADING MATERIAL FOR THIS PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF TOPSOIL, SILT, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL.
- CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT PREPARED BY AMERICAN ENGINEERING TESTING, INC. FOR ANY ADDITIONAL SITE PREPARATION REQUIREMENTS.
- PROVIDE A SAWCUT WHEN PLACING NEW PAVEMENT ADJACENT TO INPLACE PAVEMENT AND AT TERMINI OF CONSTRUCTION TO ENSURE A UNIFORM JOINT.
- BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH MN/DOT SPEC. 2104.
- USE TACK COAT BETWEEN ALL BITUMINOUS MIXTURES. THE BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT A UNIFORM RATE OF 0.04 GAL/SY TO 0.06 GAL/SY BETWEEN BITUMINOUS LAYERS. THE APPLICATION RATES ARE FOR UNDILUTED EMULSIONS.
- THE BITUMINOUS MIXTURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS 2360 AND 3139.
- EXCEPT FOR THE INFILTRATION BASIN, ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" OF TOPSOIL, FERTILIZER AND SEED. SEE SHEETS C11 AND C12 FOR ADDITIONAL RESTORATION DETAILS.
- IF NECESSARY, CONTRACTOR SHALL APPLY FOR A DEPARTMENT OF LABOR AND INDUSTRY PERMIT PRIOR TO CONSTRUCTING ANY UNDERGROUND UTILITIES SHOWN ON THESE PLANS. CONTRACTOR SHALL ADDRESS ALL THE COMMENTS FROM THE DEPARTMENT OF LABOR AND INDUSTRY AS PART OF THE PERMIT APPLICATION PROCESS.

GENERAL EROSION CONTROL NOTES:

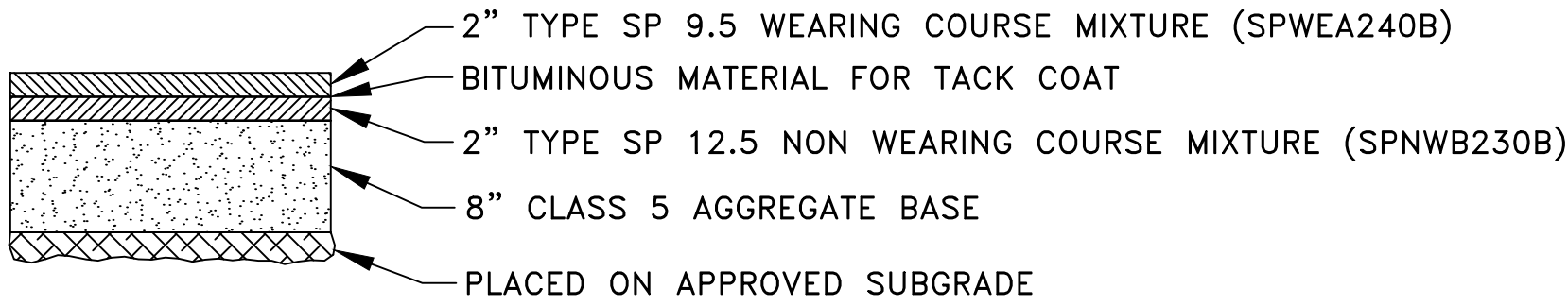
- PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ACQUIRE THE MPCA CONSTRUCTION STORMWATER GENERAL PERMIT (NPDES).
- EROSION CONTROL SHALL CONFORM TO THE MN/DOT EROSION CONTROL HANDBOOK.
- THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL FACILITIES (BMP'S) PRIOR TO GRADING AND REMOVAL ACTIVITIES. BMP'S SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION ACTIVITIES AND POTENTIAL FOR EROSION HAS PASSED.
- THE CONTRACTOR SHALL SCHEDULE HIS OPERATION TO MINIMIZE THE AMOUNT OF DISTURBED AREA AT ANY GIVEN TIME.
- BMP'S SHALL BE INSPECTED DAILY BY THE CONTRACTOR. OBSERVATIONS SHALL BE RECORDED IN THE INSPECTION LOG.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION.
- THE CONTRACTOR SHALL FILE A NOTICE OF TERMINATION WITH THE MPCA AFTER FINAL STABILIZATION HAS BEEN APPROVED.

REFERENCE NOTES:

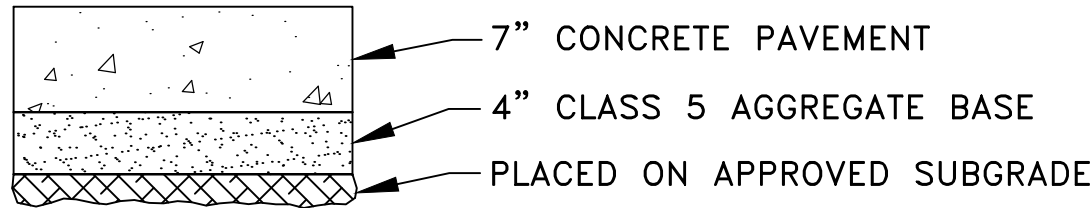
- PAVEMENT SECTION SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL PROTECT THE INFILTRATION BASIN WITH 48" HIGH ORANGE SAFETY FENCE PRIOR TO THE START OF CONSTRUCTION.
- CONSTRUCTION EQUIPMENT SHALL BE MINIMIZED OVER THE FOOTPRINT OF THE BASIN. ONLY LOW PRESSURE, WIDE TRACKED EQUIPMENT SHALL BE USED FOR CONSTRUCTION.
- SEE SHEET C11 FOR INFILTRATION BASIN RESTORATION REQUIREMENTS.

LEGEND

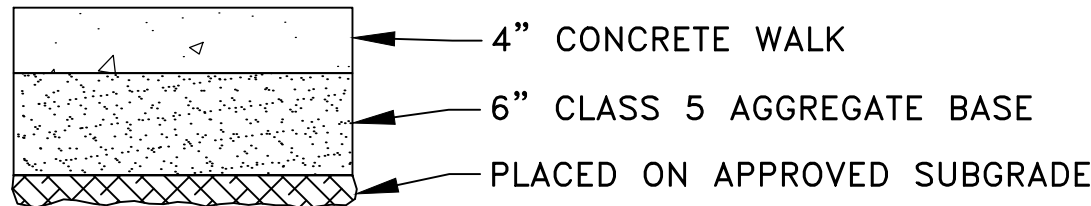
---	PROPERTY LINE
---XXX---	PROPOSED RIGHT-OF-WAY
---XXX---	EXISTING CONTOUR
---XXX---	PROPOSED CONTOUR
-G-	BURIED GAS MAIN
-T-BUR-	BRURIED TELEPHONE LINE
-P-OH-	OVERHEAD ELECTRIC LINE
-P-BUR-	BURIED ELECTRIC LINE
-TV-BUR-	BURIED TELEVISION LINE
---	EXISTING WATERMAIN
---	EXISTING SANITARY SEWER
---	EXISTING STORM SEWER
-----	EXISTING STORM SEWER
-----X-----	FENCE
⊗	EXISTING CATCH BASIN
⊙	EXISTING STORM MANHOLE
⊙	EXISTING SANITARY MANHOLE
⊙	UTILITY POLE
⊙	GUY WIRE
⊙	UTILITY PEDESTAL
⊙	LIGHT POLE
⊙	EXISTING WATERMAIN VALVE
⊙	SIGN
⊙	DECIDUOUS TREE
~~~~~	EDGE OF BRUSH/TREE DRIPLINE
---	PROPOSED WATERMAIN
---	PROPOSED SANITARY SEWER
---	PROPOSED STORM SEWER
---	PROPOSED WATERMAIN VALVE
---	PROPOSED CURB AND GUTTER
⊙	SOIL BORING LOCATION
B-X	
⊙	DETAIL NUMBER
⊙	SHEET NUMBER



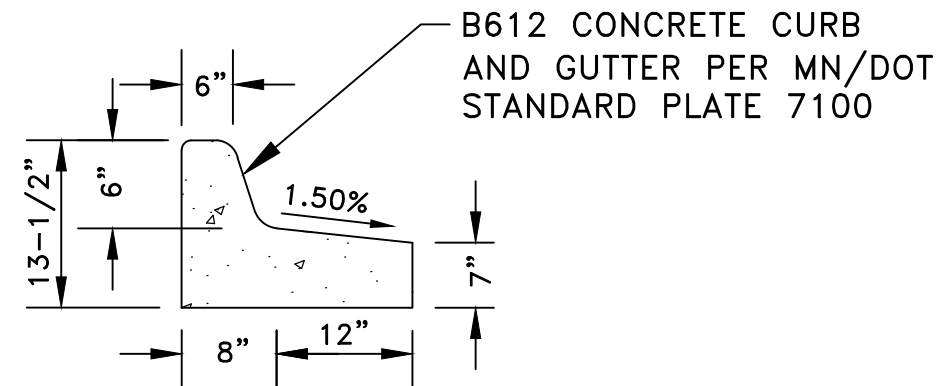
1 BITUMINOUS PAVEMENT SECTION 1  
NO SCALE



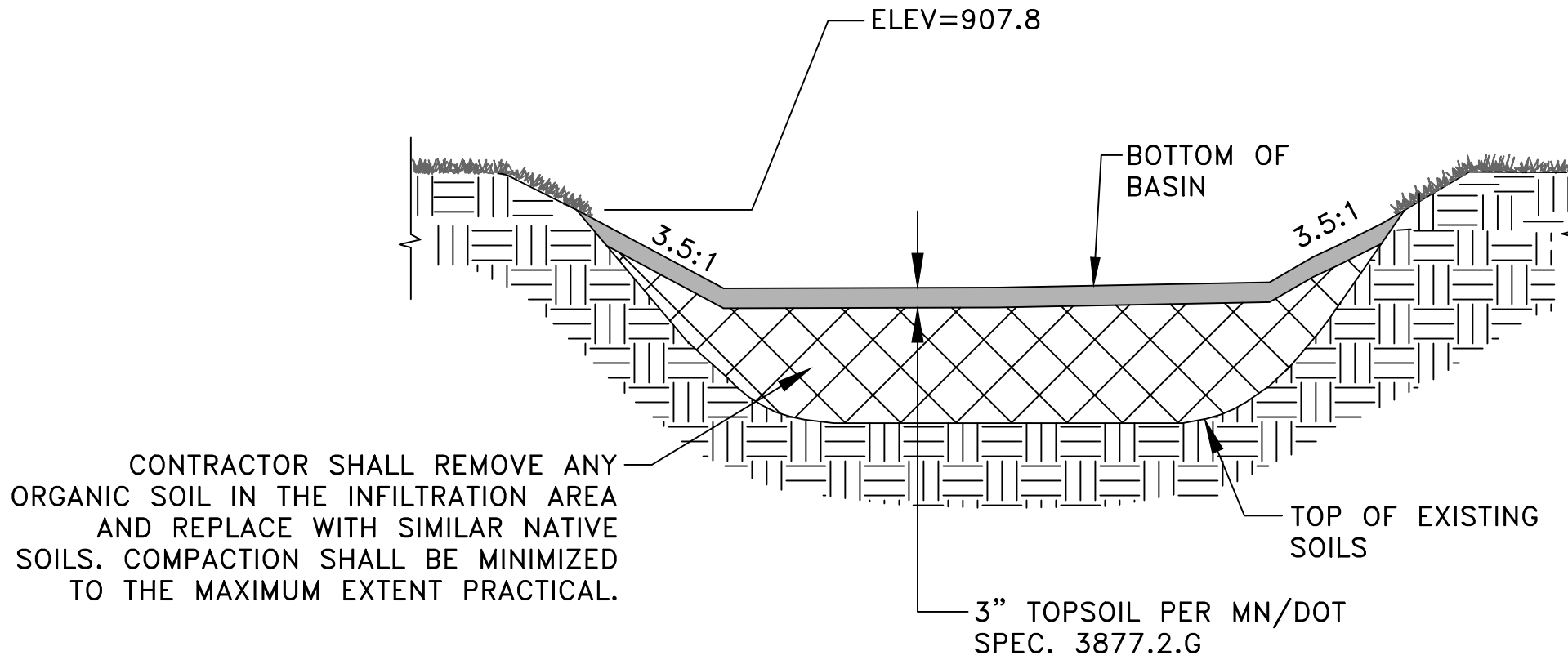
2 CONCRETE PAVEMENT SECTION 1  
NO SCALE



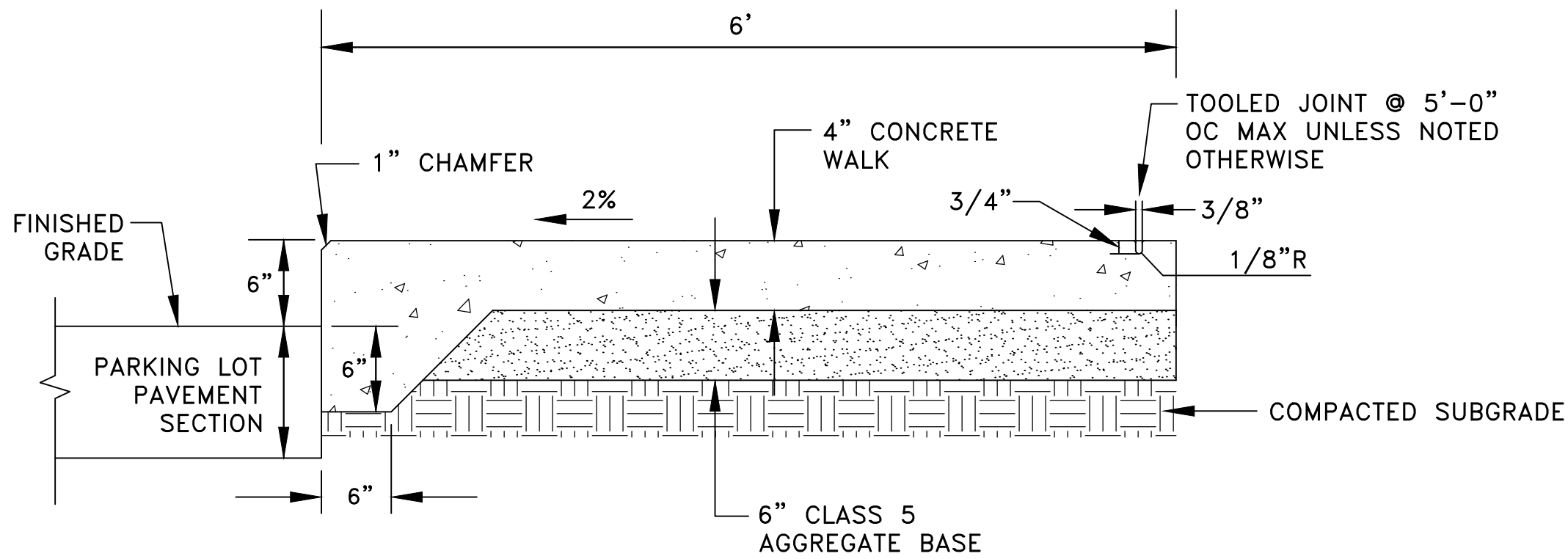
3 CONCRETE WALK SECTION 1  
NO SCALE



5 TIPOUT CURB DETAIL  
NO SCALE

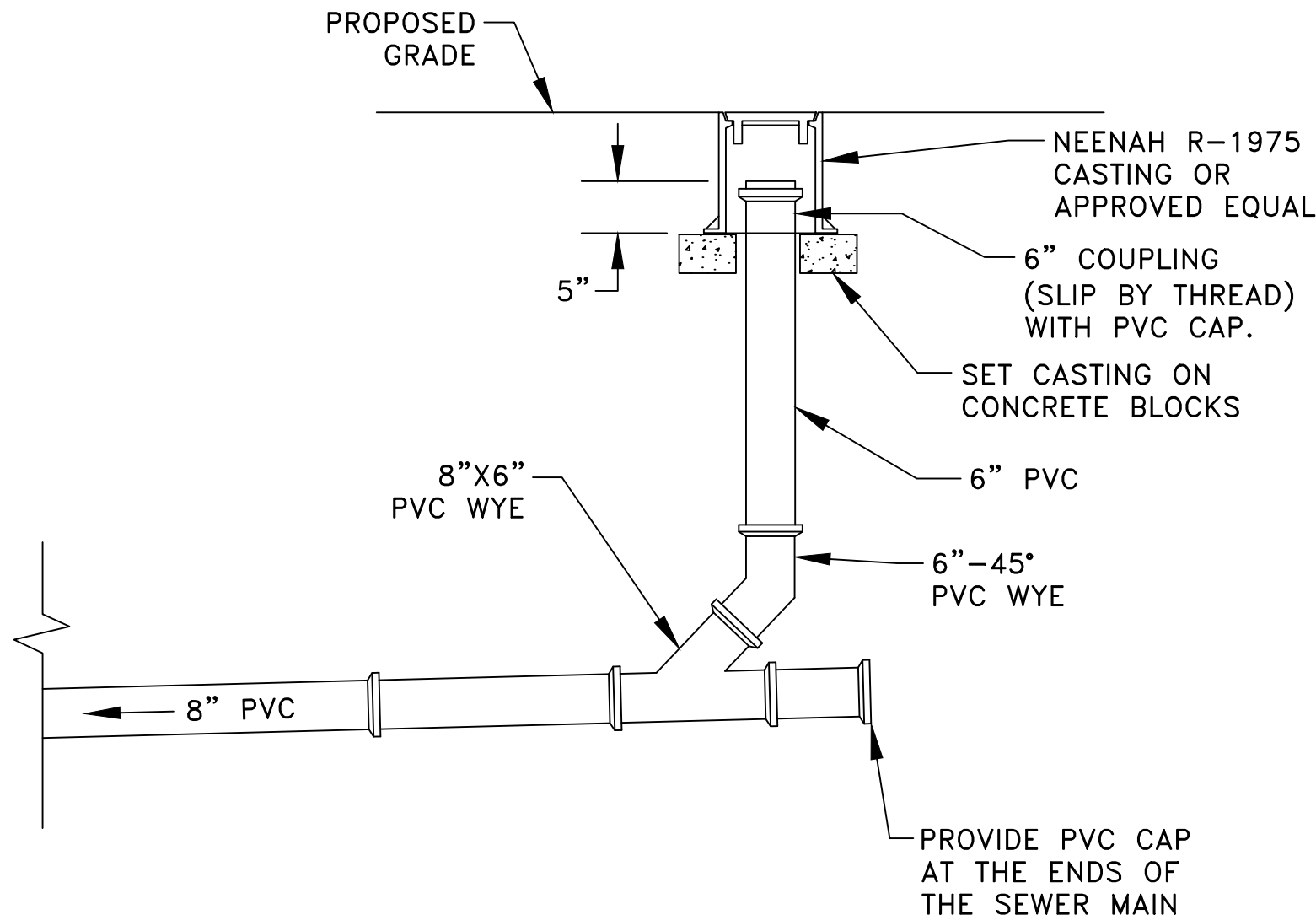


6 INFILTRATION BASIN 2 3 4  
NO SCALE



SIDEWALK NOTES:  
1. PROVIDE EXPANSION JOINT A MAXIMUM OF EVERY 30' OC.

4 THICKENED EDGE CONCRETE SIDEWALK SECTION  
NO SCALE



7 DRAINTILE CLEANOUT  
NO SCALE

Oct 05, 2020 - 9:01am  
K:\PRIVAT\4504.01\ENGINEERING\450401\_DETAILS.dwg

DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggerichs*  
TIMOTHY A. EGGERICHS, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE  
DRAWN BY:  
TAE  
CHECKED BY:  
CJJ

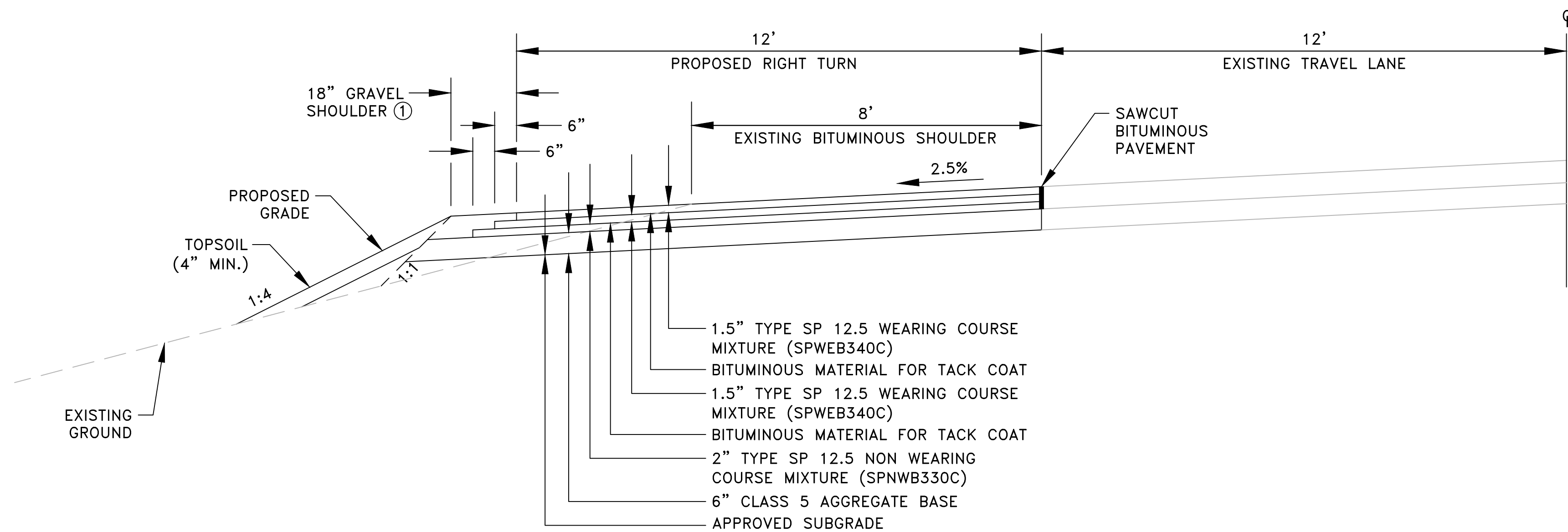


**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

CONSTRUCTION NOTES, PROJECT  
LEGEND AND DETAILS  
CITY OF OAK GROVE, MINNESOTA

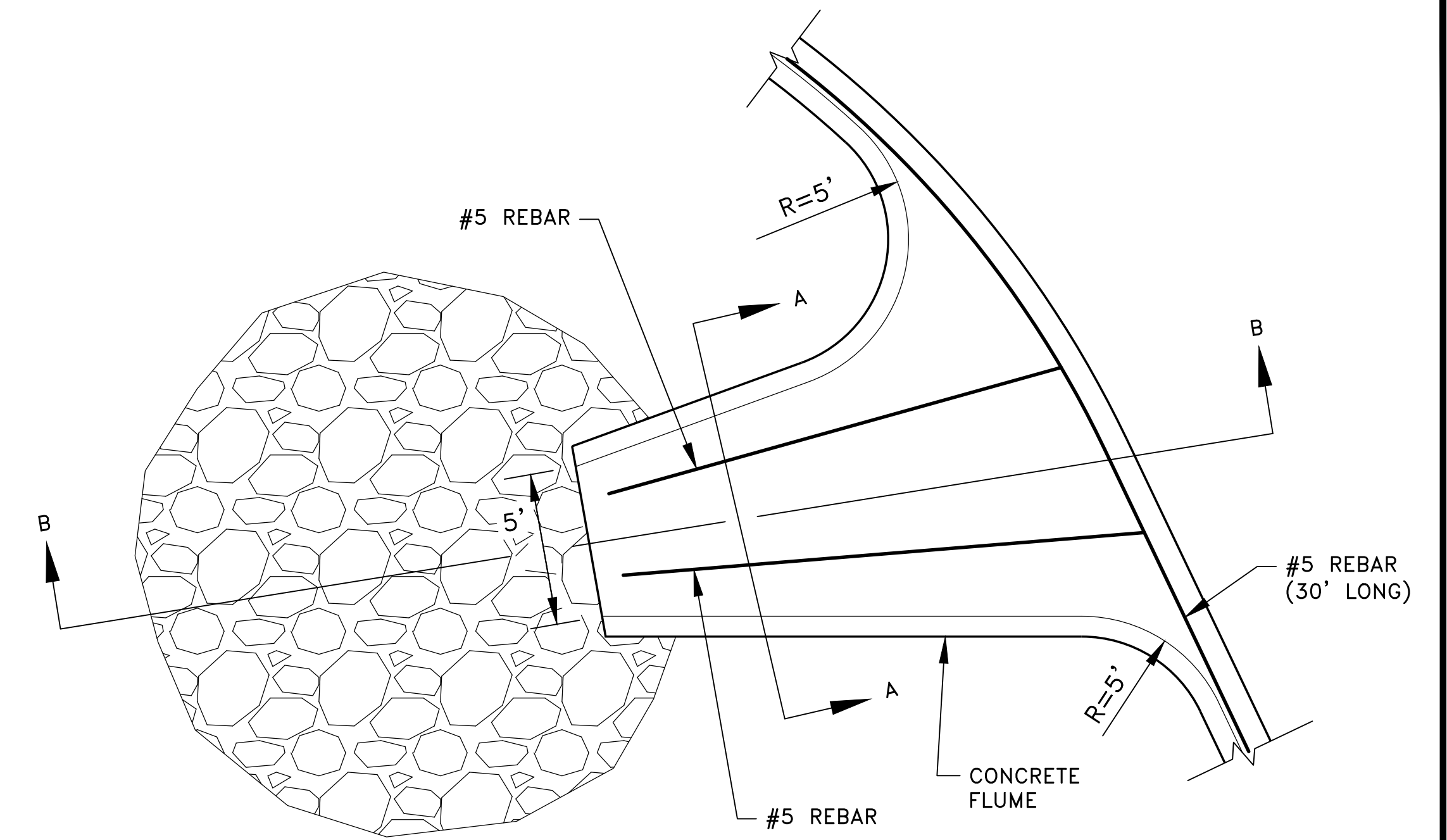
SHEET  
C2  
OF  
C16  
SHEETS  
4504.01



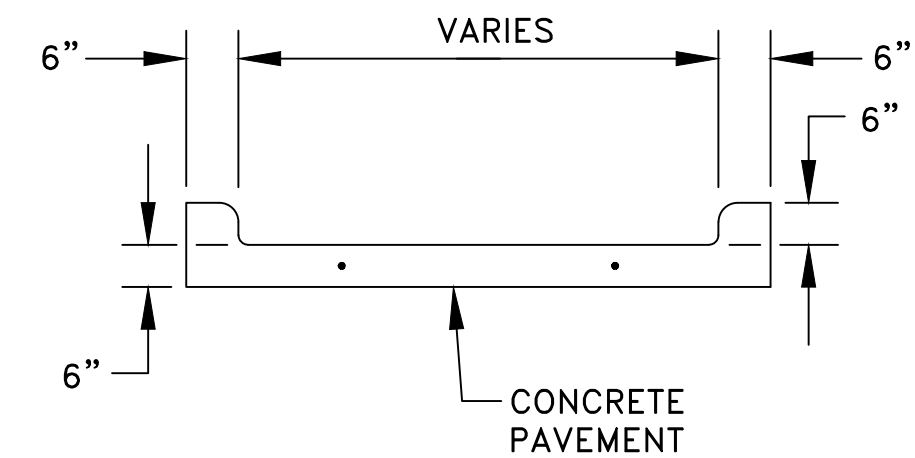
**TYPICAL SECTION  
RUM RIVER BOULEVARD  
RIGHT TURN LANE**

1  
C3

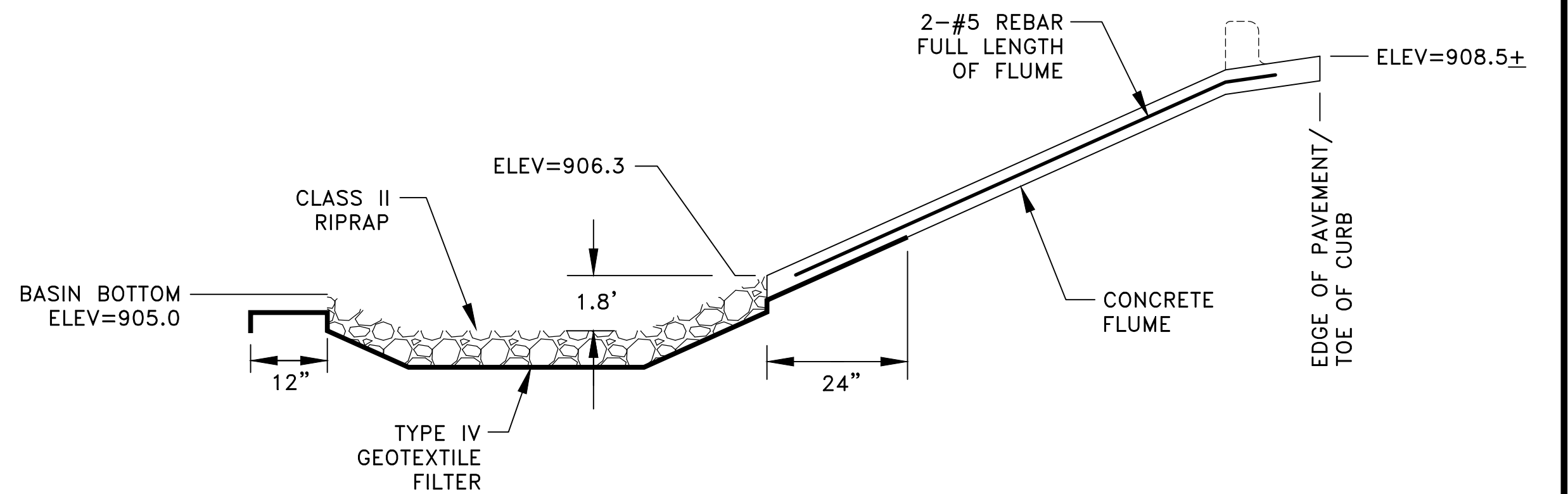
NO SCALE



**PLAN**



**SECTION A-A**



**SECTION B-B**

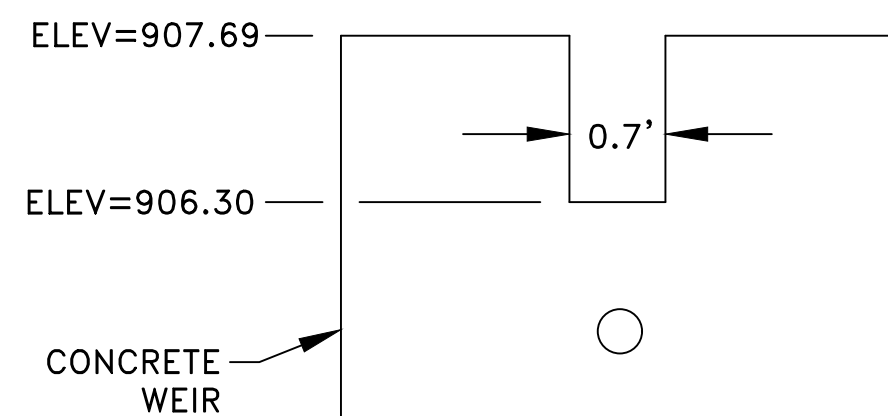
3  
C3

**CONCRETE FLUME DETAIL ②**

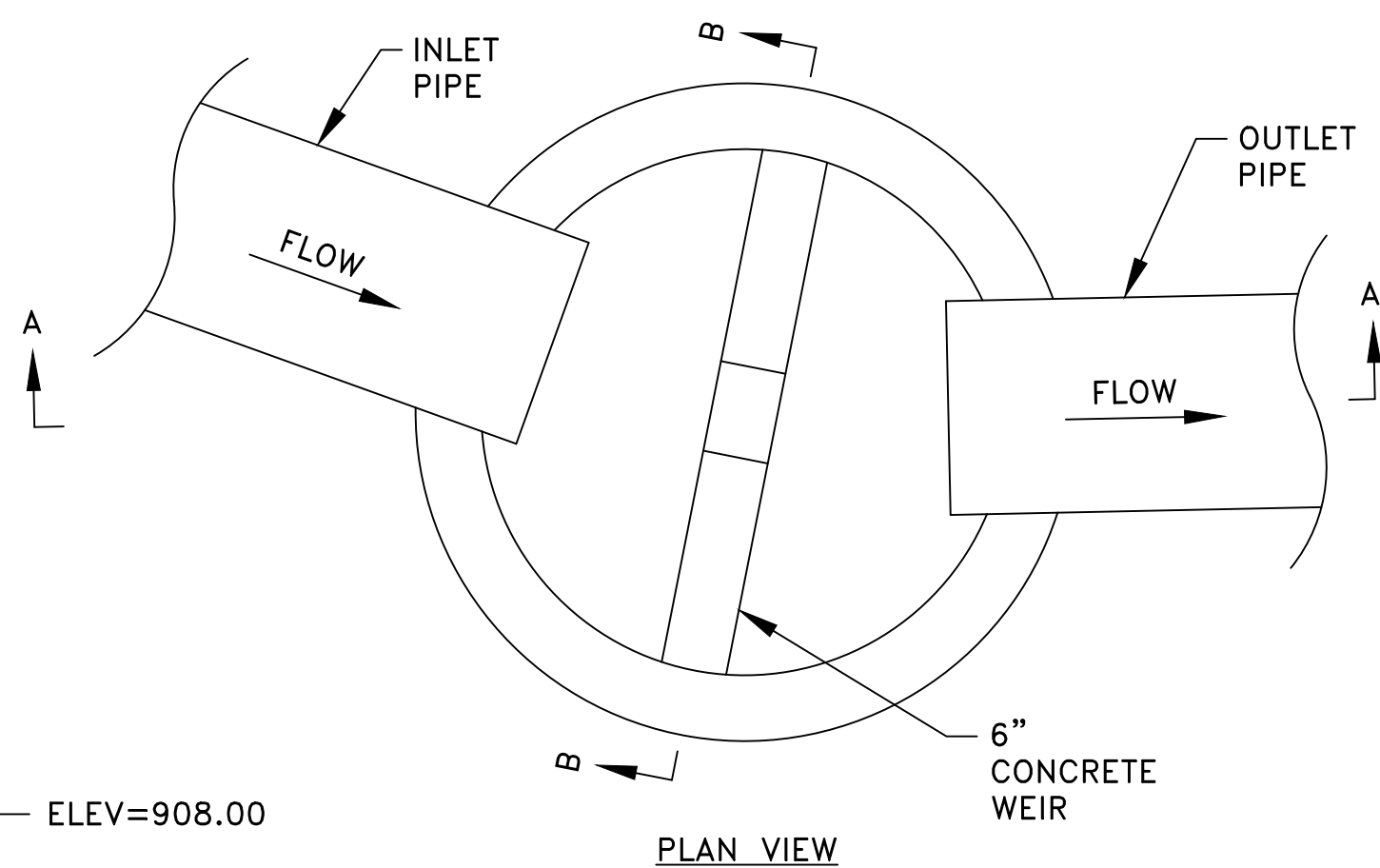
NO SCALE

**REFERENCE NOTES:**

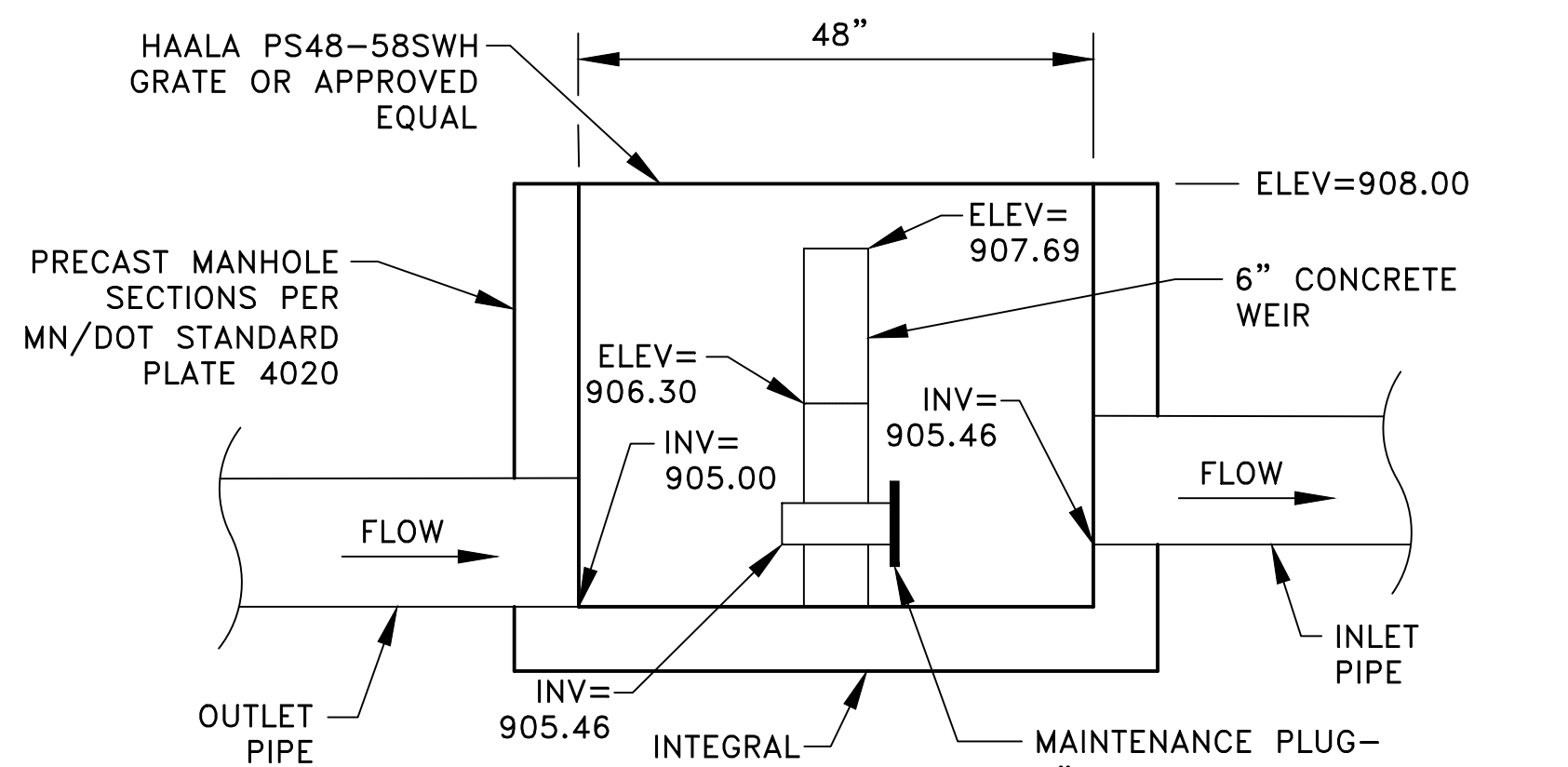
- AGGREGATE SHOULDER SHALL MEET THE REQUIREMENTS OF MN/DOT SPEC 3138, CLASS 2 VIRGIN MATERIAL.
- PLACE SEDIMENT CONTROL LOGS UPSTREAM OF THE FLUME TO PREVENT STORMWATER FROM DRAINING TO THE INFILTRATION BASIN PRIOR TO FINAL STABILIZATION. AFTER FINAL STABILIZATION, THE SEDIMENT CONTROL LOGS CAN BE REMOVED.



**SECTION B-B**



**PLAN VIEW**



**SECTION A-A**

2  
C3

**POND OUTLET STRUCTURE**

NO SCALE

DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggen*  
TIMOTHY A. EGGEN, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE  
DRAWN BY:  
TAE  
CHECKED BY:  
CJJ



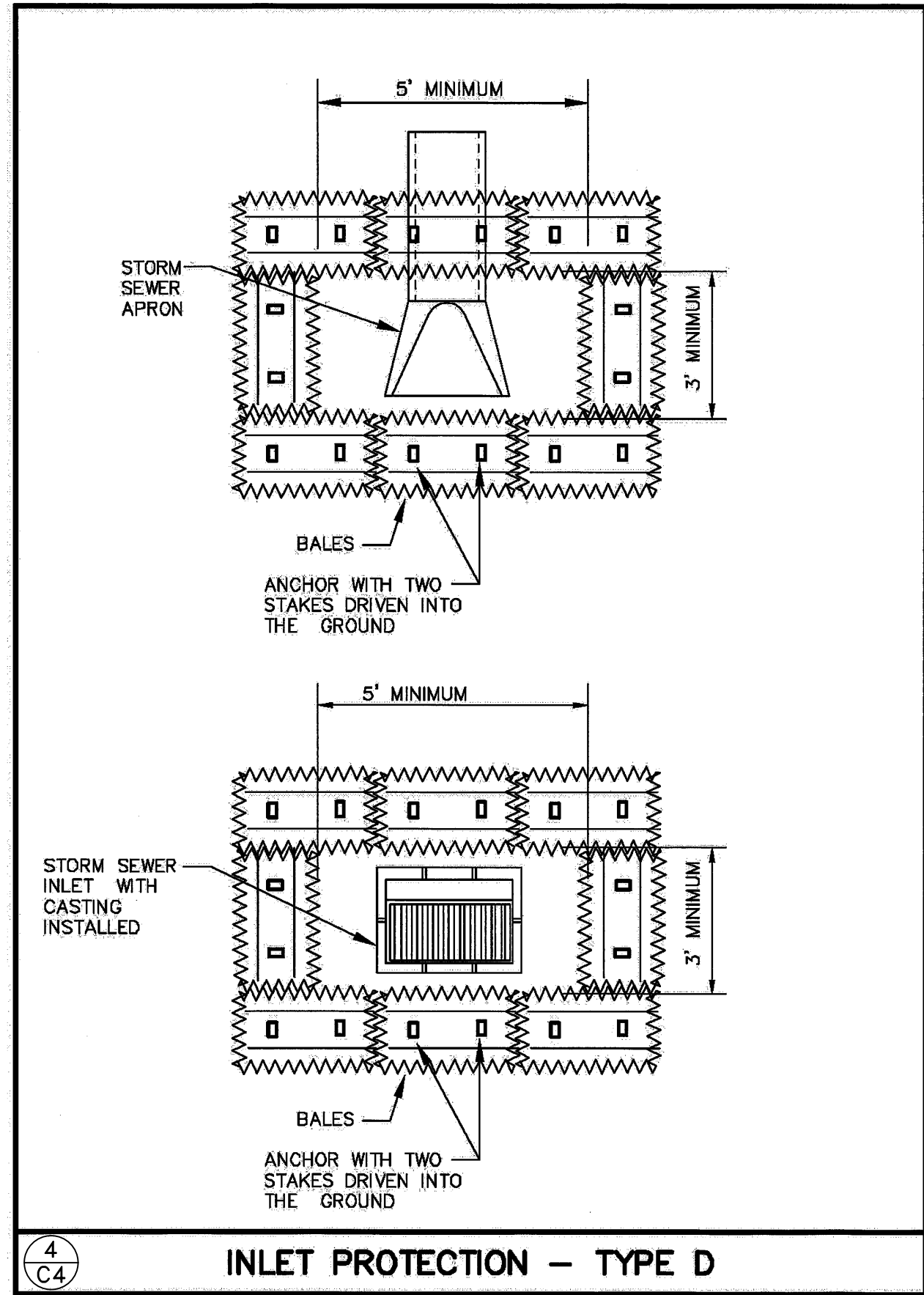
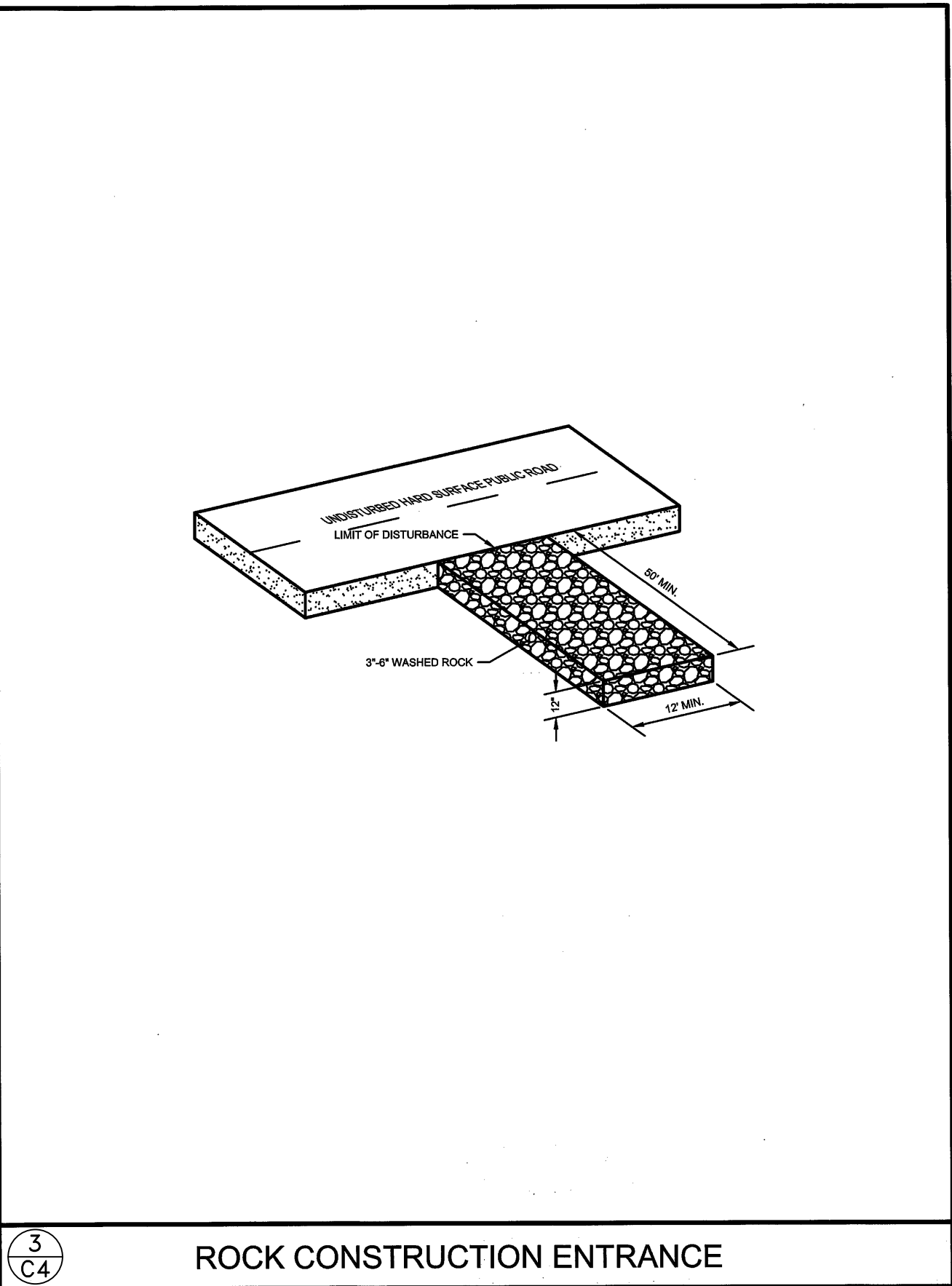
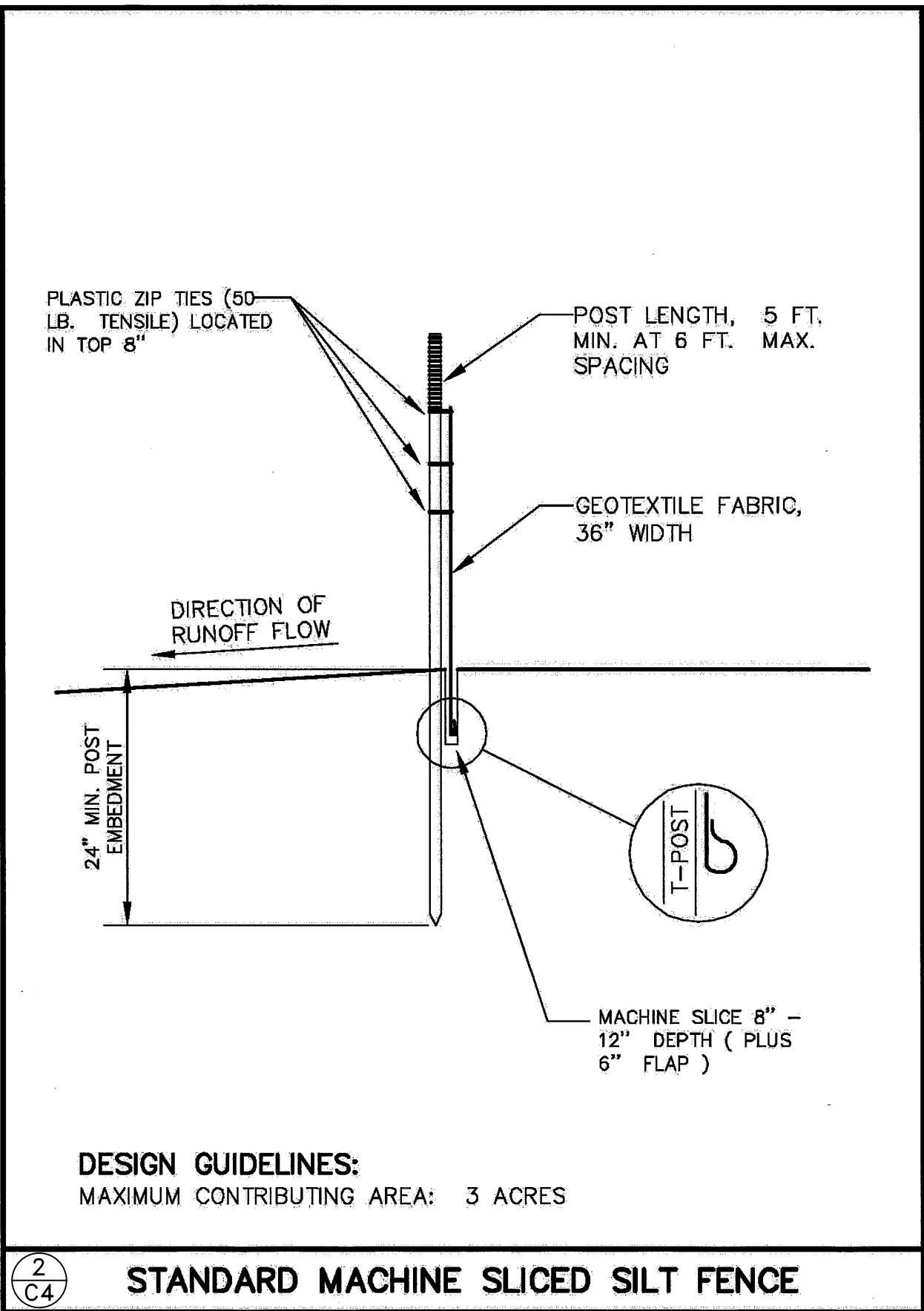
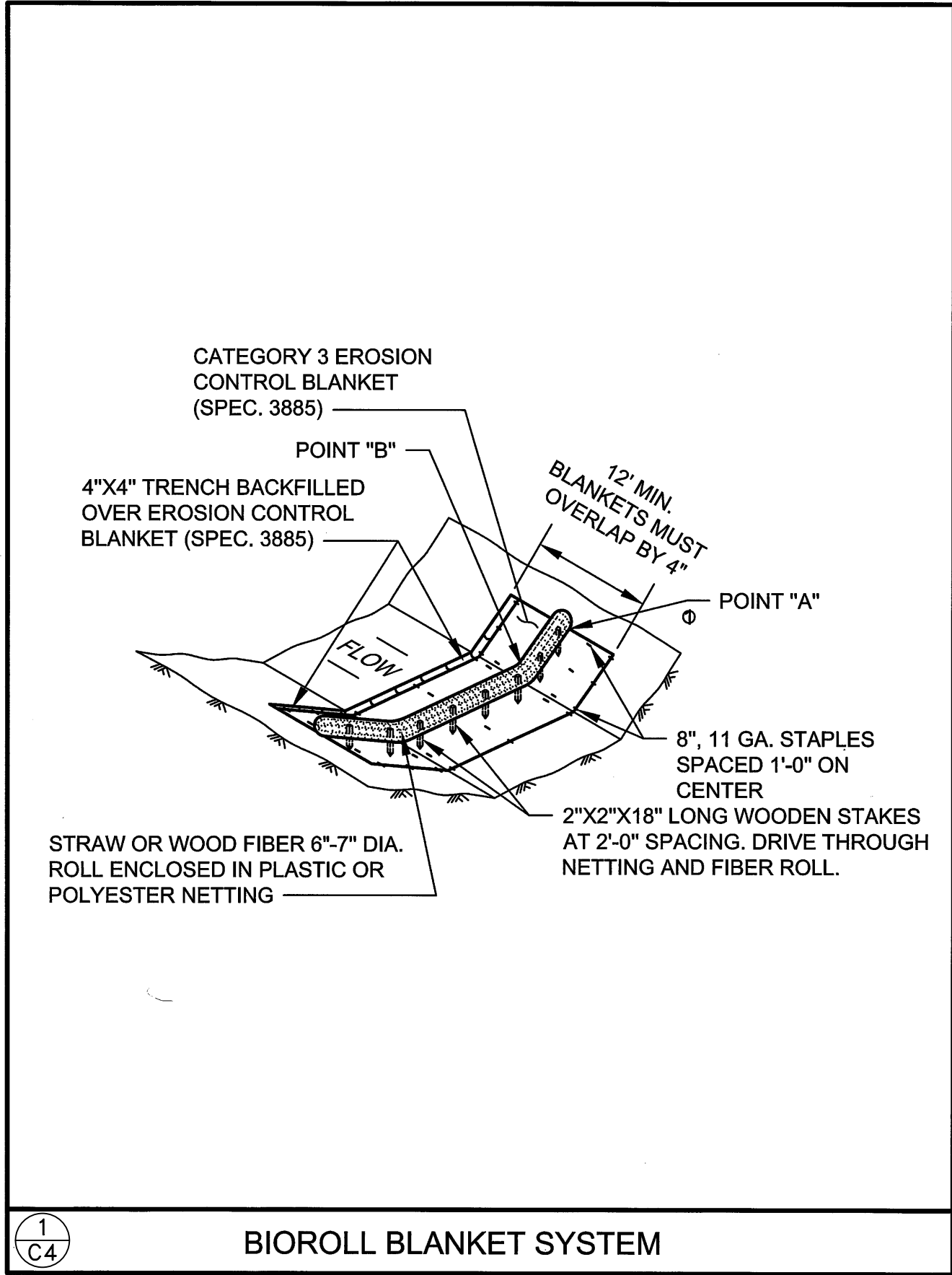
**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

DETAILS

CITY OF OAK GROVE, MINNESOTA

SHEET  
C3  
OF  
C16  
SHEETS  
4504.01



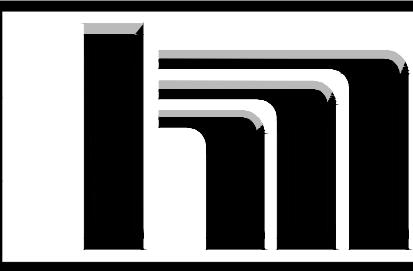
Oct 05, 2020 -- 9:01am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_DETAILS.dwg

DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggenrichs*  
TIMOTHY A. EGGENRICHS, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:	TAE
DRAWN BY:	TAE
CHECKED BY:	CJJ



**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

CITY STANDARD DETAILS  
CITY OF OAK GROVE, MINNESOTA

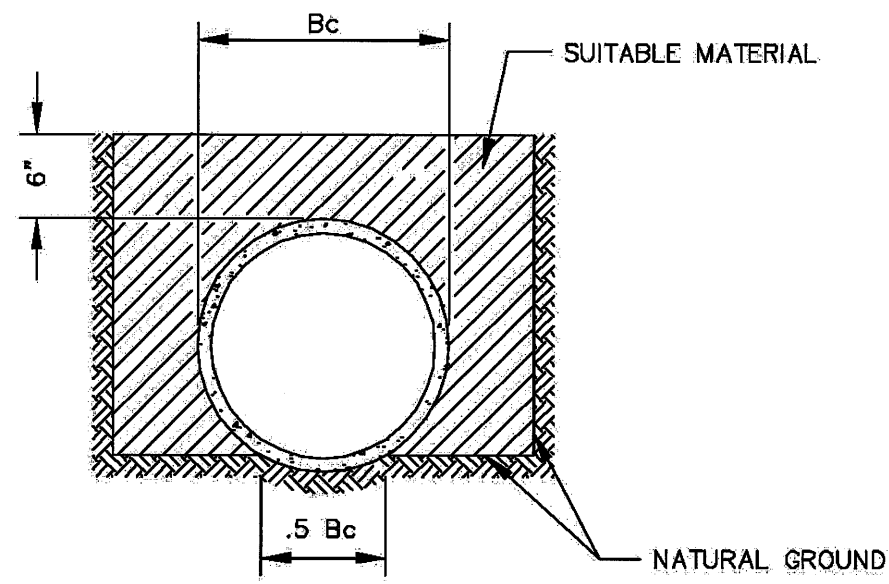
SHEET  
C4  
OF  
C16  
SHEETS



Oct 05, 2020 -- 9:02am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_DETAILS.dwg

1  
C5

CLASS C PIPE BEDDING

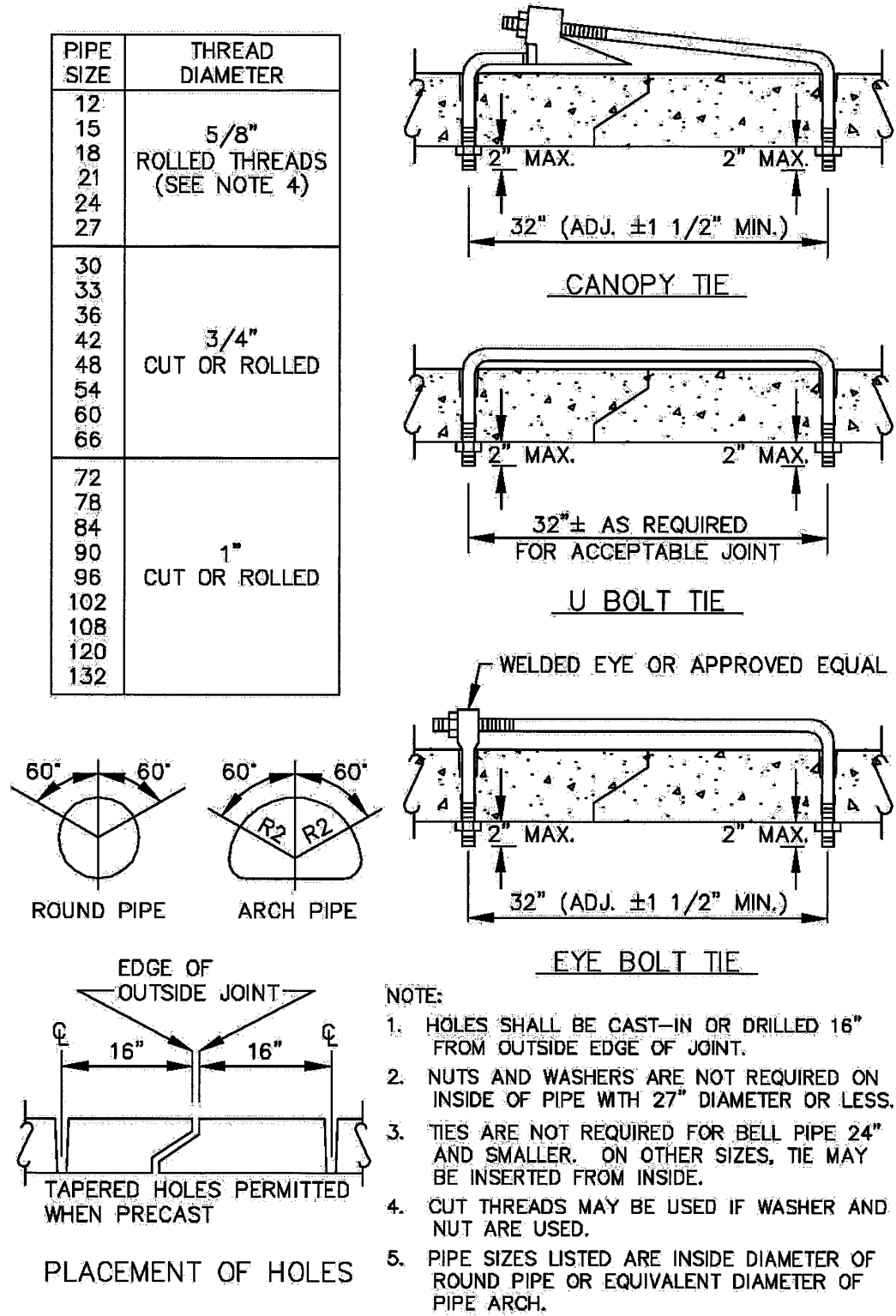


THE BOTTOM OF THE TRENCH SHALL BE SHAPED TO FIT THE PIPE BARREL FOR AT LEAST 50% OF THE OUTSIDE DIAMETER. THE REMAINDER OF THE PIPE IS SURROUNDED TO A HEIGHT OF AT LEAST 6" ABOVE ITS TOP BY SELECT FILL MATERIALS, PLACED BY HAND TOOLS AND COMPACTED TO COMPLETELY FILL ALL SPACES UNDER AND ADJACENT TO THE PIPE.

NOTE: ALL COSTS OF EXCAVATION BELOW GRADE AND PLACEMENT OF GRANULAR BEDDING SHALL BE INCLUDED IN THE BID PRICES FOR PIPE ITEMS.

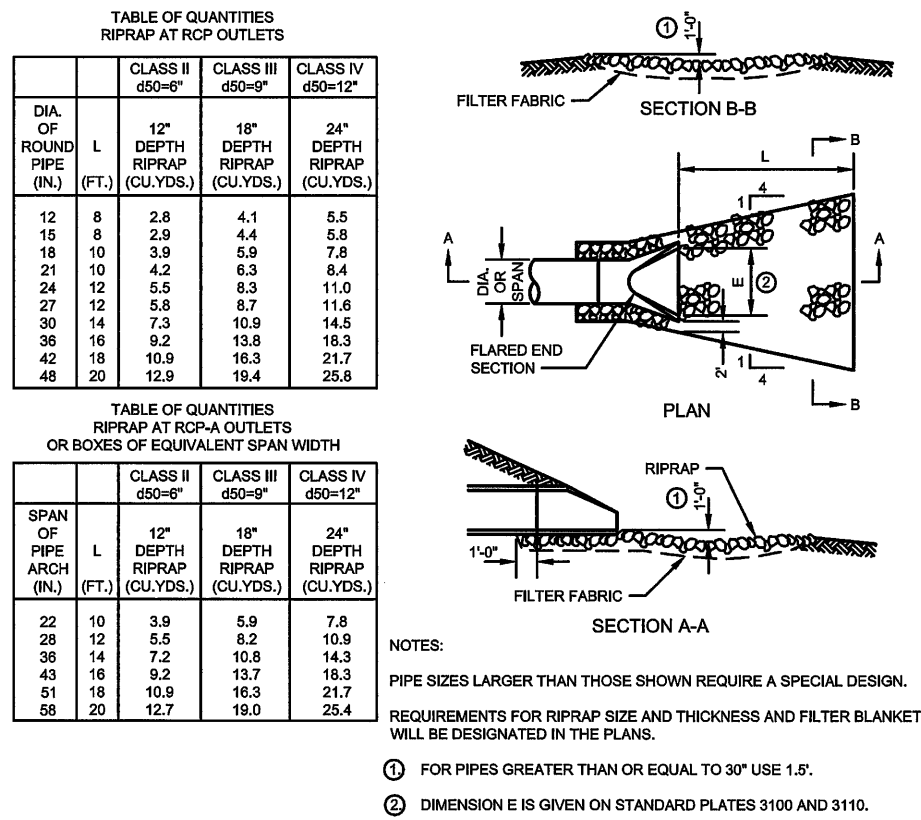
2  
C5

CONCRETE PIPE JOINT TIES



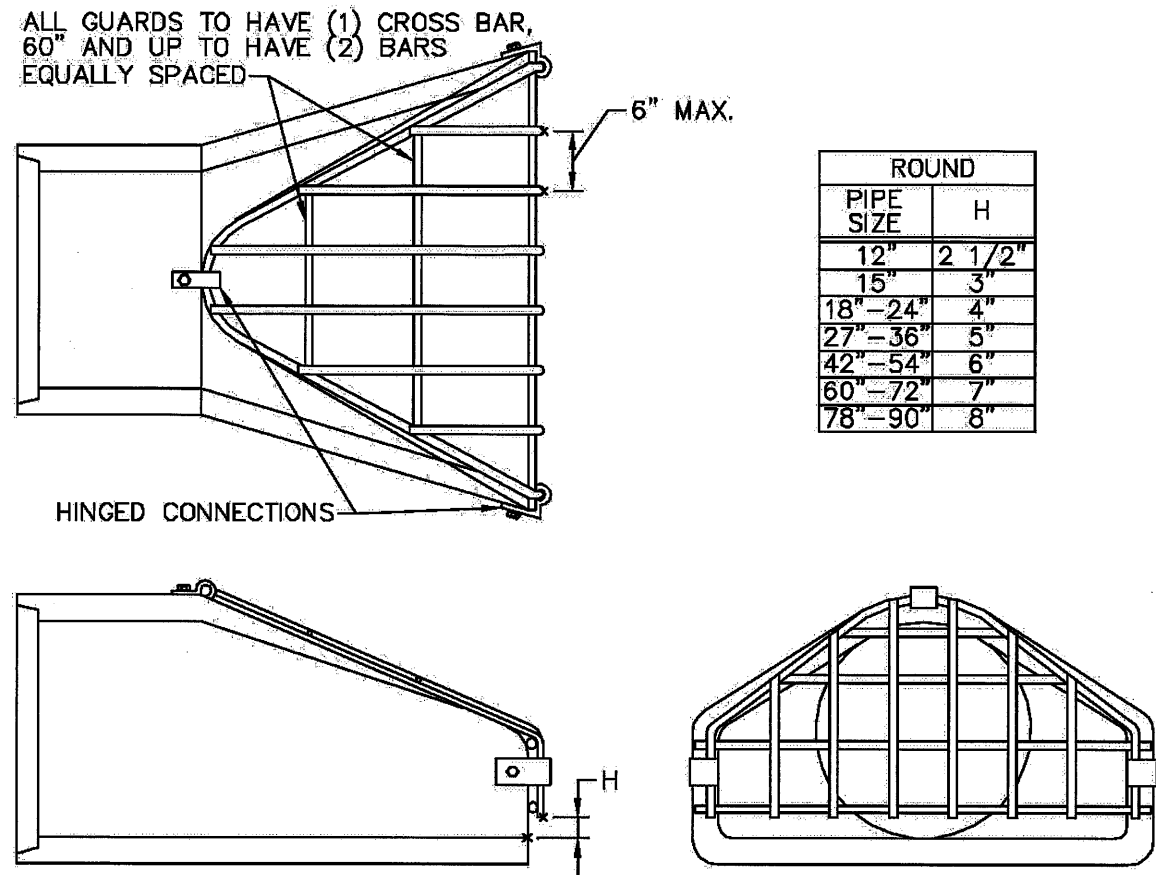
3  
C5

RIPRAP INSTALLATION



4  
C5

TRASH GUARD



BAR SIZES									
STANDARD DESIGN					HEAVY DESIGN				
PIPE SIZE	HOLE DIA. REQ'D	BOLT DIA.	BAR SIZE		PIPE SIZE	HOLE DIA. REQ'D	BOLT DIA.	BAR SIZE	
12"-24"	3/4"	5/8"	5/8"		12"-18"	3/4"	5/8"	3/4"	
27"-48"	7/8"	3/4"	3/4"		21"-42"	7/8"	3/4"	1"	
54"-90"	1 1/8"	1"	1"		48"-90"	1 1/8"	1"	1 1/4"	

Note:  
Hot dip galvanized per ASTM A153.

DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.  
  
TIMOTHY A. EGGEN, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE  
DRAWN BY:  
TAE  
CHECKED BY:  
CJJ



Hakanson Anderson  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

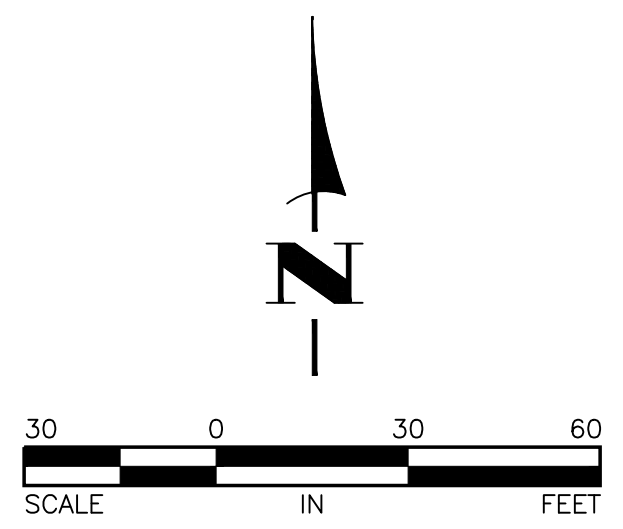
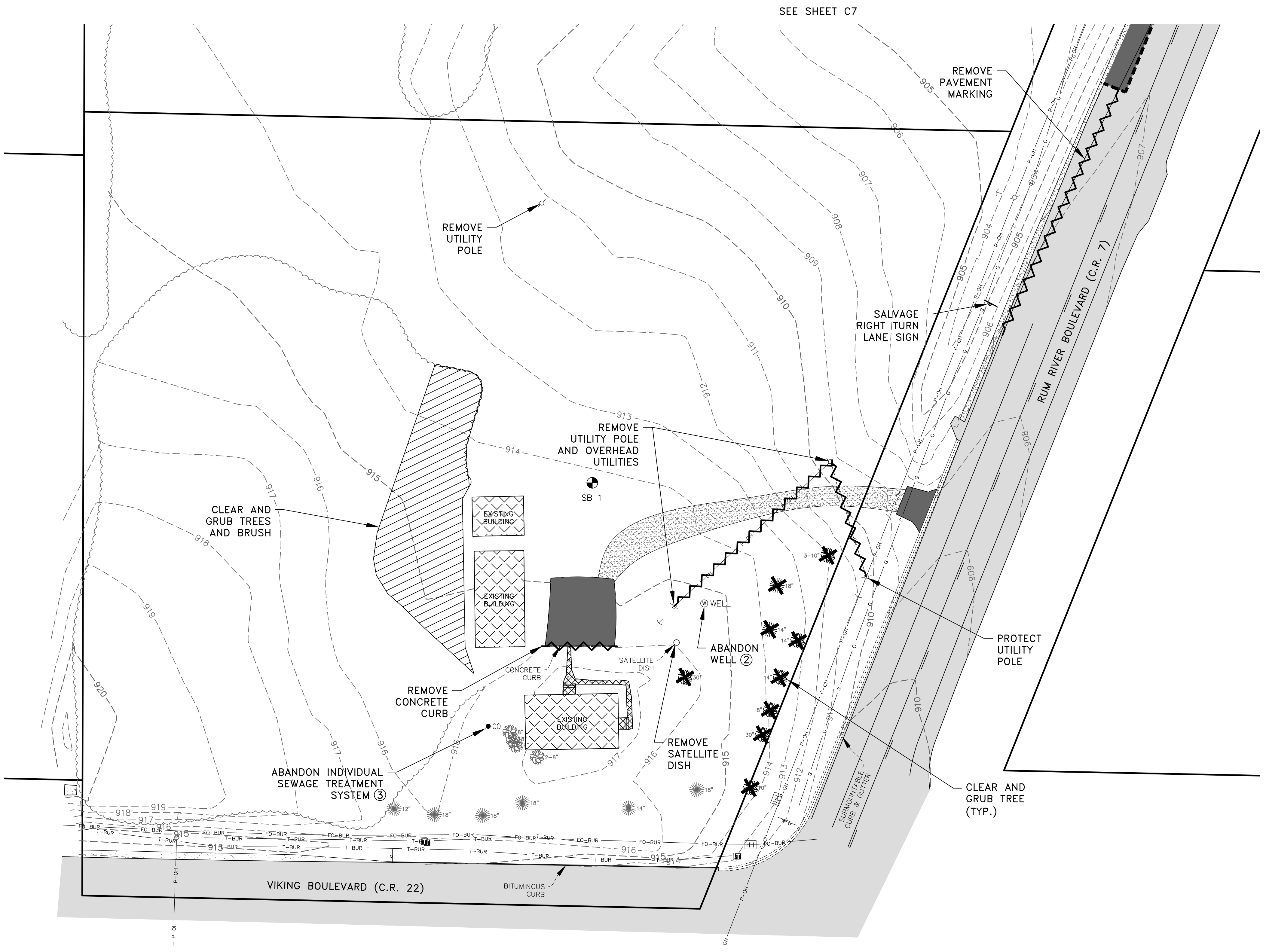
CITY STANDARD DETAILS  
CITY OF OAK GROVE, MINNESOTA

SHEET  
C5  
OF  
C16  
SHEETS

- GENERAL NOTES:
1. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO RELOCATE OR SALVAGE AND REINSTALL THEIR FACILITIES AS NECESSARY TO COMPLETE CONSTRUCTION.
  2. SEE SHEET C13 FOR THE RUM RIVER BOULEVARD TRAFFIC CONTROL PLAN.
- REFERENCE NOTES:
- ① WORK SHALL INCLUDE REMOVING THE BUILDINGS AND ABANDONING THE EXISTING PRIVATE UTILITIES SERVICING THE BUILDING. THESE UTILITIES MAY INCLUDE GAS, ELECTRIC, TELEPHONE AND CABLE TV.
  - ② WELL ABANDONMENT SHALL MEET ALL CITY AND STATE REQUIREMENTS.
  - ③ VERIFY LOCATION OF THE INDIVIDUAL SEWAGE TREATMENT SYSTEM (ISTS) PRIOR TO CONSTRUCTION. ISTS ABANDONMENT SHALL MEET ALL CITY AND STATE REQUIREMENTS.

LEGEND

	EXISTING BITUMINOUS PAVEMENT
	EXISTING CONCRETE PAVEMENT
	EXISTING GRAVEL
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE BUILDING ①
	SAWCUT BITUMINOUS OR CONCRETE PAVEMENT
	LINEAR REMOVALS



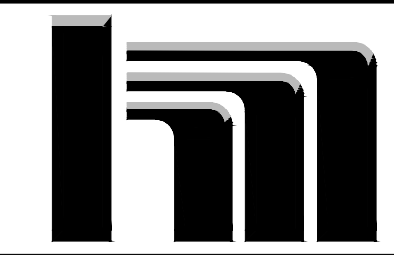
Oct 05, 2020 -- 9:02am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_EXISTING.dwg

DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggerich*  
TIMOTHY A. EGGERICH, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE  
DRAWN BY:  
TAE  
CHECKED BY:  
CJJ



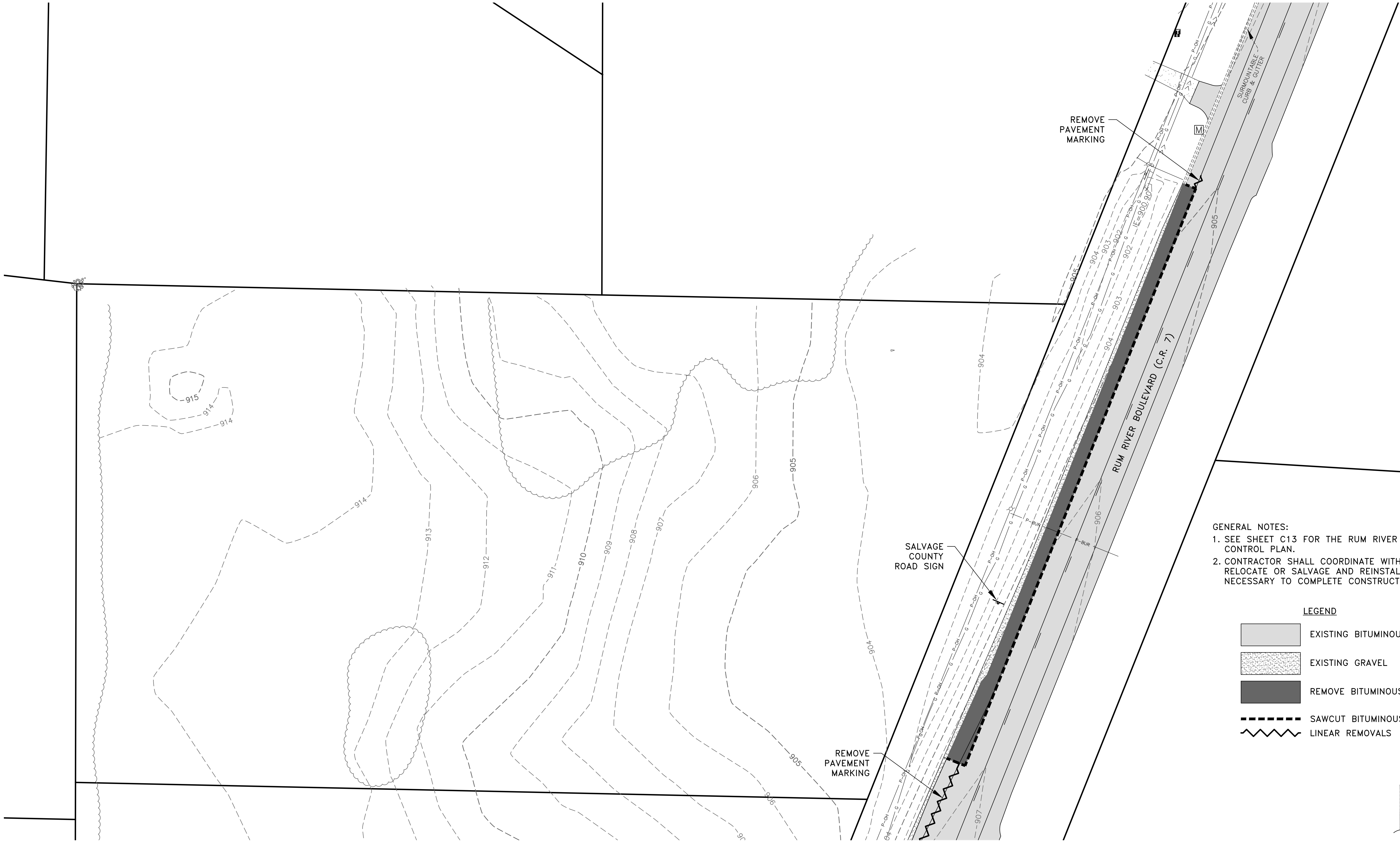
**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

EXISTING TOPOGRAPHY  
AND REMOVALS PLAN  
CITY OF OAK GROVE, MINNESOTA

SHEET  
C6  
OF  
C16  
SHEETS

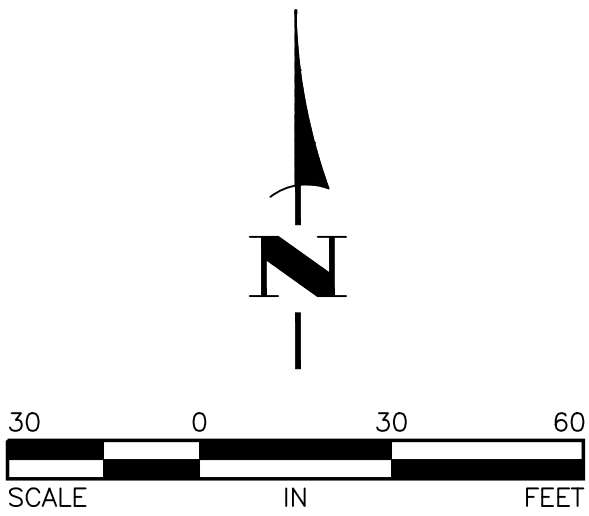
Oct 05, 2020 -- 9:02am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_EXISTING.dwg



SEE SHEET C6

- GENERAL NOTES:
1. SEE SHEET C13 FOR THE RUM RIVER BOULEVARD TRAFFIC CONTROL PLAN.
  2. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO RELOCATE OR SALVAGE AND REINSTALL THEIR FACILITIES AS NECESSARY TO COMPLETE CONSTRUCTION.

- LEGEND
- EXISTING BITUMINOUS PAVEMENT
  - EXISTING GRAVEL
  - REMOVE BITUMINOUS PAVEMENT
  - SAWCUT BITUMINOUS OR CONCRETE PAVEMENT
  - LINEAR REMOVALS



DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggertich*  
TIMOTHY A. EGGERTICH, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE  
DRAWN BY:  
TAE  
CHECKED BY:  
CJJ



**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

EXISTING TOPOGRAPHY  
AND REMOVALS PLAN  
RUM RIVER BOULEVARD (C.R. 7)  
CITY OF OAK GROVE, MINNESOTA

SHEET  
C7  
OF  
C16  
SHEETS



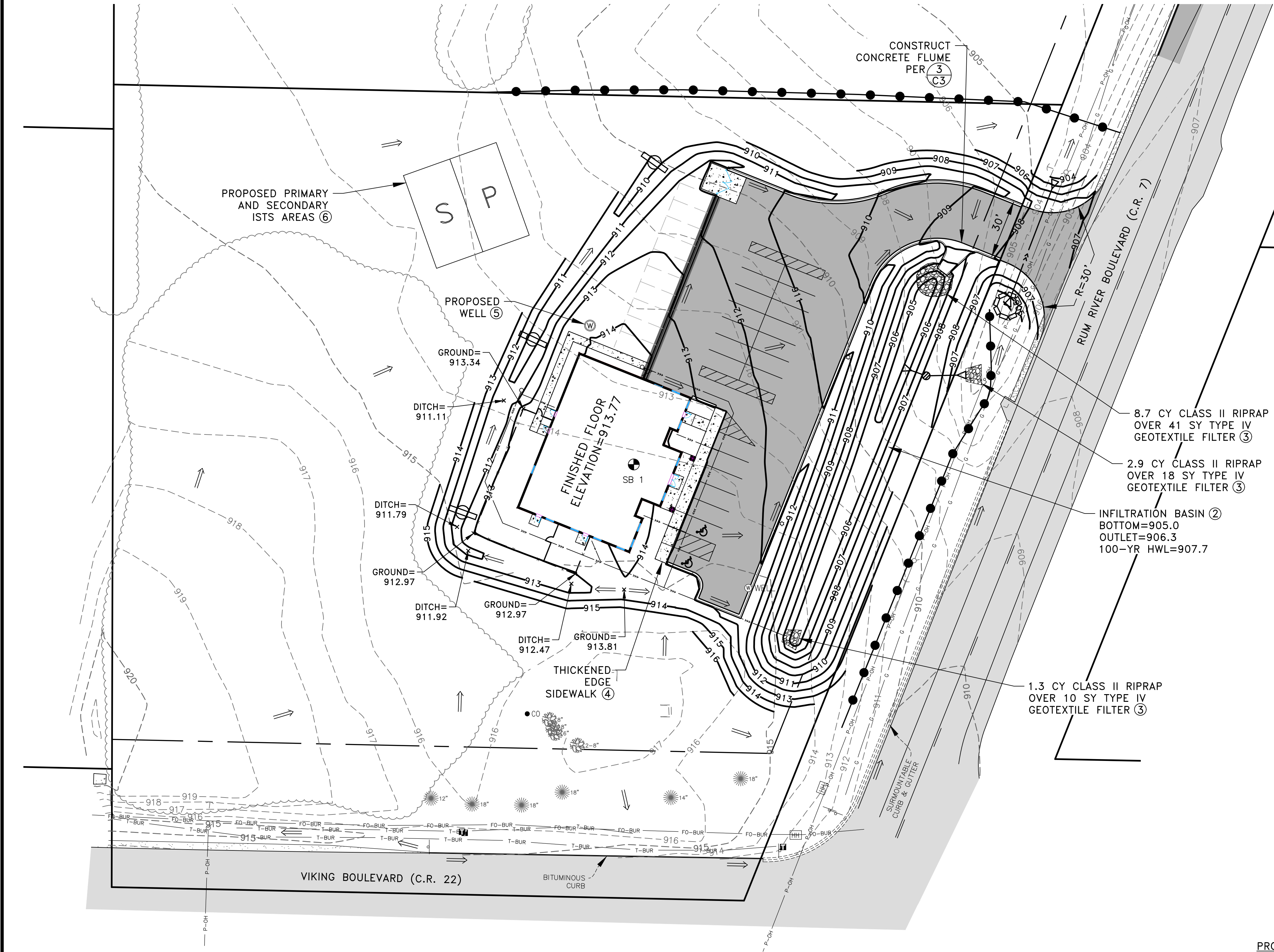
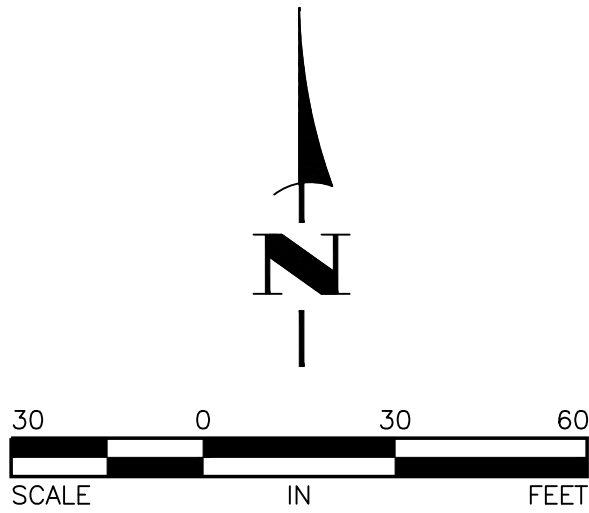
- GENERAL NOTES:
1. PRIOR TO IMPORTING OR EXPORTING MATERIAL FROM THE SITE, CONTRACTOR SHALL CONSTRUCT A ROCK CONSTRUCTION ENTRANCE PER  $\frac{3}{C4}$ .
  2. VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS.
  3. DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF ROUGH GRADING.
  4. STREET SWEEPING MUST BE PERFORMED DAILY IF SEDIMENT IS TRACKED ONTO ANY CITY OR COUNTY ROADS.
  5. SEE SHEET C10 FOR THE UTILITY PLAN.
  6. SEE SHEET C11 FOR THE PAVING AND RESTORATION PLAN.
  7. CONTRACTOR SHALL DETERMINE A LOCATION FOR CONCRETE AND OTHER WASHOUT WASTE. A SIGN SHALL BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY THAT REQUIRES SITE PERSONNEL TO UTILIZE THE PROPER FACILITIES FOR DISPOSAL OF CONCRETE AND OTHER WASTES.
  8. SEE SHEET C14 FOR THE RUM RIVER BOULEVARD RIGHT TURN LANE CONSTRUCTION PLAN.
  9. SEE SHEET C9 FOR THE STAKING PLAN.
- REFERENCE NOTES:
- ① INSTALL INLET PROTECTION DEVICES PER  $\frac{4}{C4}$  AT ALL CULVERTS THAT MAY RECEIVE STORMWATER RUNOFF FROM THE SITE.
  - ② CONSTRUCT INFILTRATION BASIN PER  $\frac{6}{C2}$ . ONLY LOW PRESSURE TYPE
- EQUIPMENT SHALL BE ALLOWED WITHIN THE FOOTPRINT OF THE INFILTRATION BASIN.
- ③ PLACE RIPRAP PER  $\frac{3}{C5}$ .
  - ④ CONSTRUCT SIDEWALK PER  $\frac{4}{C2}$ .
  - ⑤ OWNER SHALL APPROVE THE PROPOSED WELL LOCATION.
  - ⑥ OWNER SHALL APPROVE THE PROPOSED ISTS AREA LOCATION.
  - ⑦ THESE NUMBERS INCLUDE AREAS OUTSIDE THE PROPERTY BOUNDARIES.

LEGEND

- EXISTING BITUMINOUS PAVEMENT
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED TIPOUT CURB PER  $\frac{5}{C2}$
- SILT FENCE PER  $\frac{2}{C4}$
- DRAINAGE ARROW
- INLET PROTECTION DEVICE ①
- STRAW BIOROLL PER  $\frac{1}{C4}$
- PROPOSED GROUND ELEVATION
- PROPOSED DITCH ELEVATION

PROJECT SUMMARY

LOT AREA = 163,633 S.F.  
EXISTING IMPERVIOUS AREA = 7,063 S.F. ⑦  
PROPOSED IMPERVIOUS AREA = 28,360 S.F. ⑦  
DISTURBED AREA = 73,050 S.F. ⑦



DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggert*  
TIMOTHY A. EGGERT, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE  
DRAWN BY:  
TAE  
CHECKED BY:  
CJJ



**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

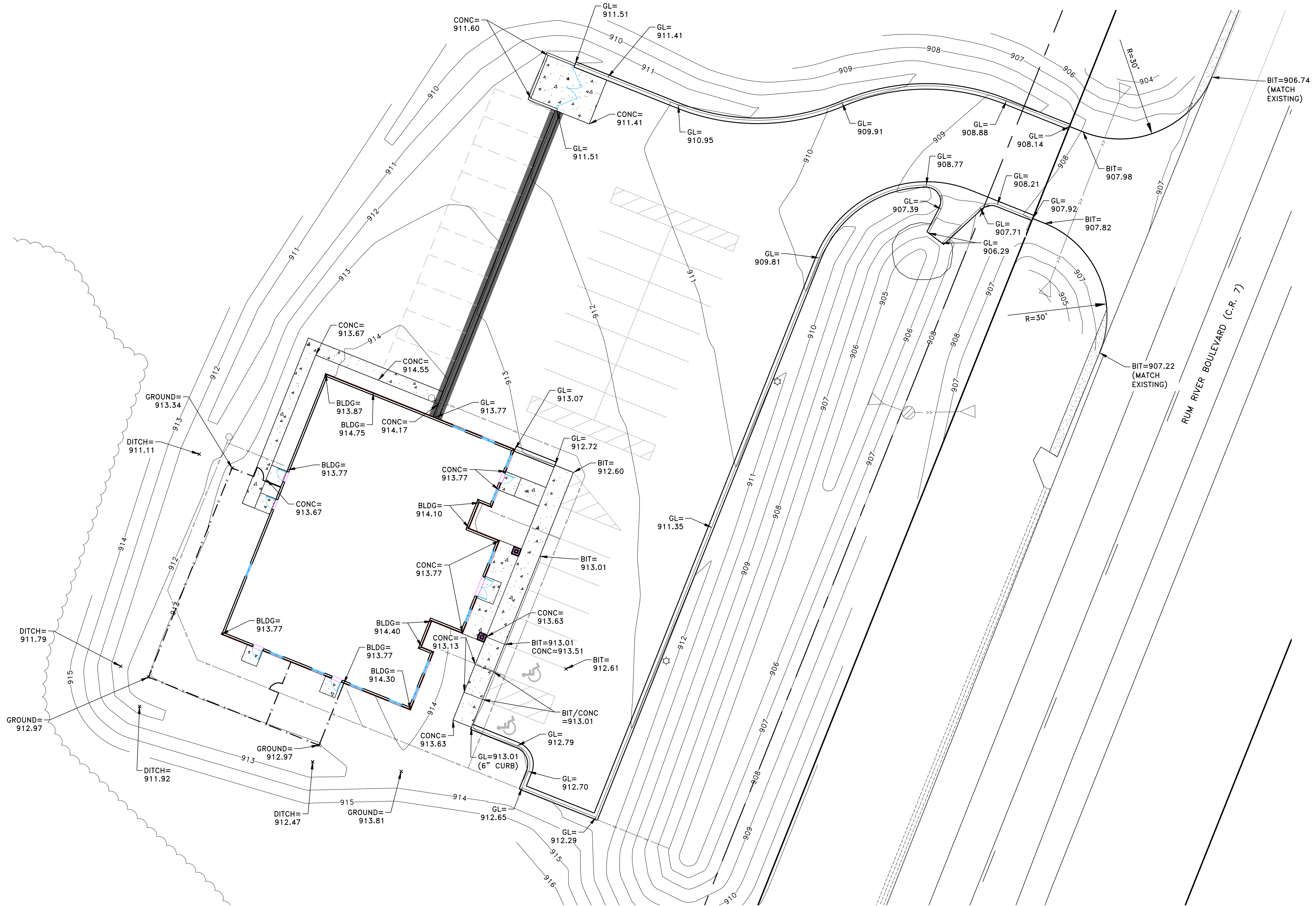
DEJA'S DOGGIE DAYCARE

GRADING, DRAINAGE AND  
EROSION CONTROL PLAN  
CITY OF OAK GROVE, MINNESOTA

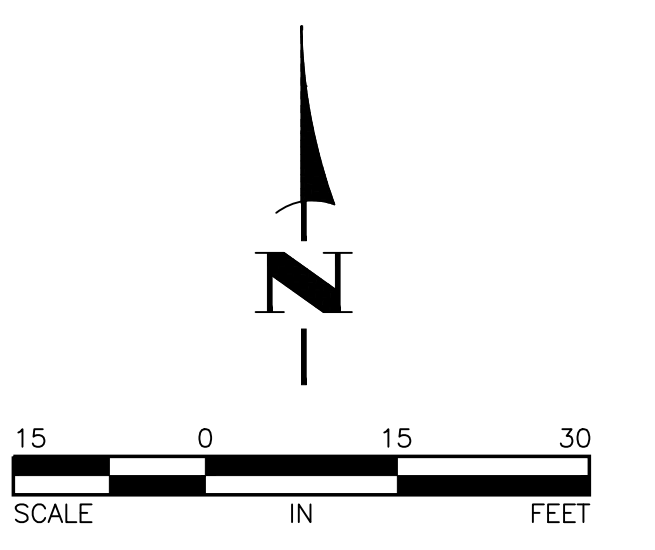
SHEET  
C8  
OF  
C16  
SHEETS



Oct 05, 2020 - 9:02am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_GRADING.dwg



- LEGEND**
- PROPOSED TIPOUT CURB PER 5/2
  - GL= XXX.XX GUTTER LINE ELEVATION
  - BLDG= XXX.XX GROUND ELEVATION AT BUILDING
  - CONC= XXX.XX CONCRETE ELEVATION
  - BIT= XXX.XX BITUMINOUS ELEVATION
  - DITCH= XXX.XX DITCH ELEVATION
  - GROUND= XXX.XX GROUND ELEVATION

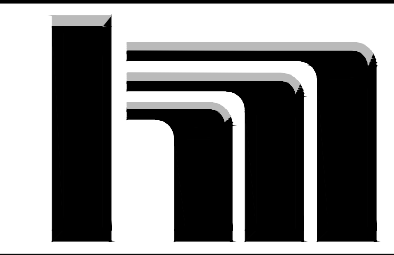


DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggert*  
TIMOTHY A. EGGERTS, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE  
DRAWN BY:  
TAE  
CHECKED BY:  
CJJ




**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

STAKING PLAN  
CITY OF OAK GROVE, MINNESOTA

SHEET  
C9  
OF  
C16  
SHEETS



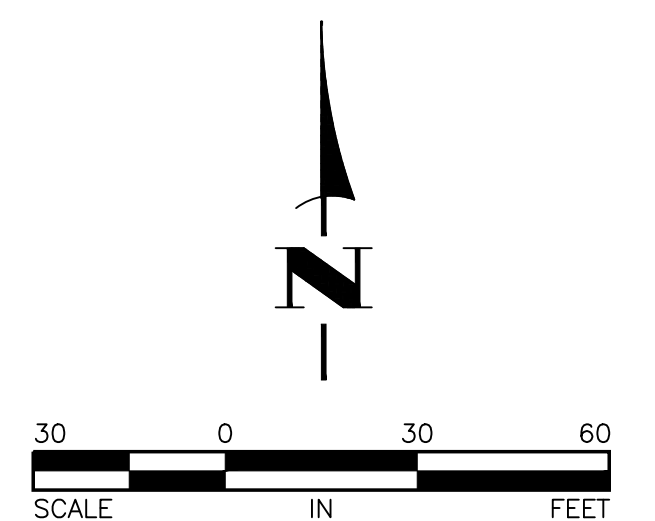
1. SEWER AND WATER SERVICE LOCATIONS TO BE DETERMINED BY THE OWNER.
2. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO RELOCATE OR SALVAGE AND REINSTALL THEIR FACILITIES AS NECESSARY TO COMPLETE CONSTRUCTION.
3. SEE SHEET C13 FOR THE RUM RIVER BOULEVARD TRAFFIC CONTROL PLAN.
4. PIPE BEDDING SHALL BE PER .
5. VERIFY LOCATION OF DOWNSPOUTS PRIOR TO CONSTRUCTION OF THE 8" PVC PIPE DRAIN.

① CONSTRUCT POND OUTLET STRUCTURE AND WEIR WALL PER  $\frac{2}{C3}$ .

② APRON SHALL INCLUDE A TRASH GUARD PER  $\frac{4}{C5}$ .

③ TIE ALL PIPE JOINTS PER  $\frac{2}{C5}$ .


④ CONSTRUCT CLEANOUT PER  $\frac{7}{C2}$ .



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.

*Timothy A. Eggerhus*  
TIMOTHY A. EGGERHUS, P.E.

Date 9/17/20 Lic. No. 43362



## DEJA'S DOGGIE DAYCARE

UTILITY PLAN

CITY OF OAK GROVE, MINNESOTA

SHEET  
C10

OF

C16  
SHEETS



Oct 05, 2020 -- 9:03am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_RESTORATION.dwg

DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Egner*  
TIMOTHY A. EGNER, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE  
DRAWN BY:  
TAE  
CHECKED BY:  
CJJ



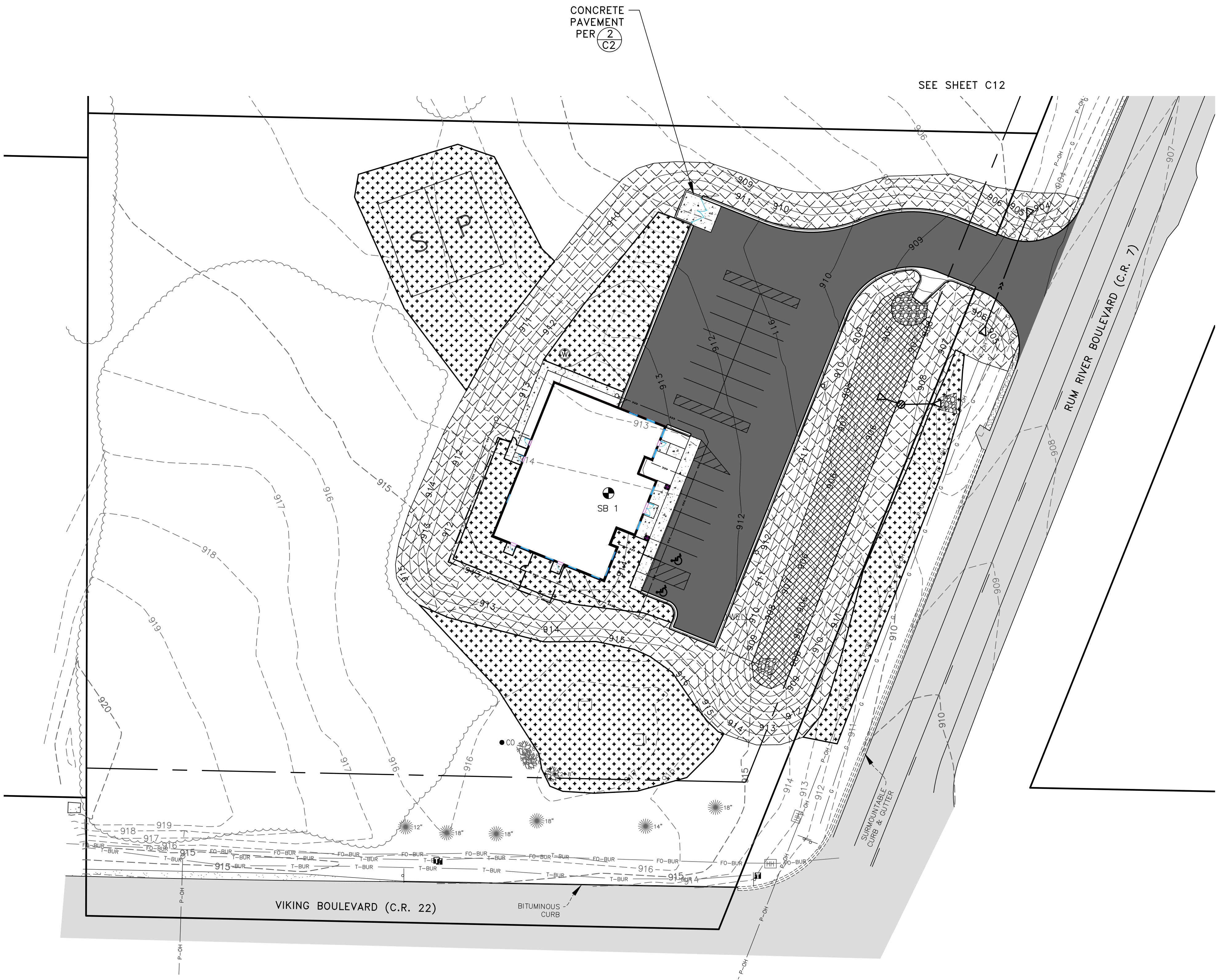
**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

PAVING AND RESTORATION PLAN  
  
CITY OF OAK GROVE, MINNESOTA

SHEET  
C11  
OF  
C16  
SHEETS

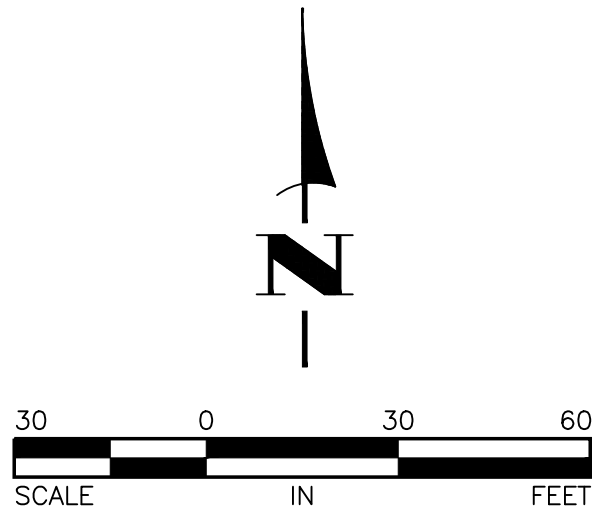
4504.01



LEGEND

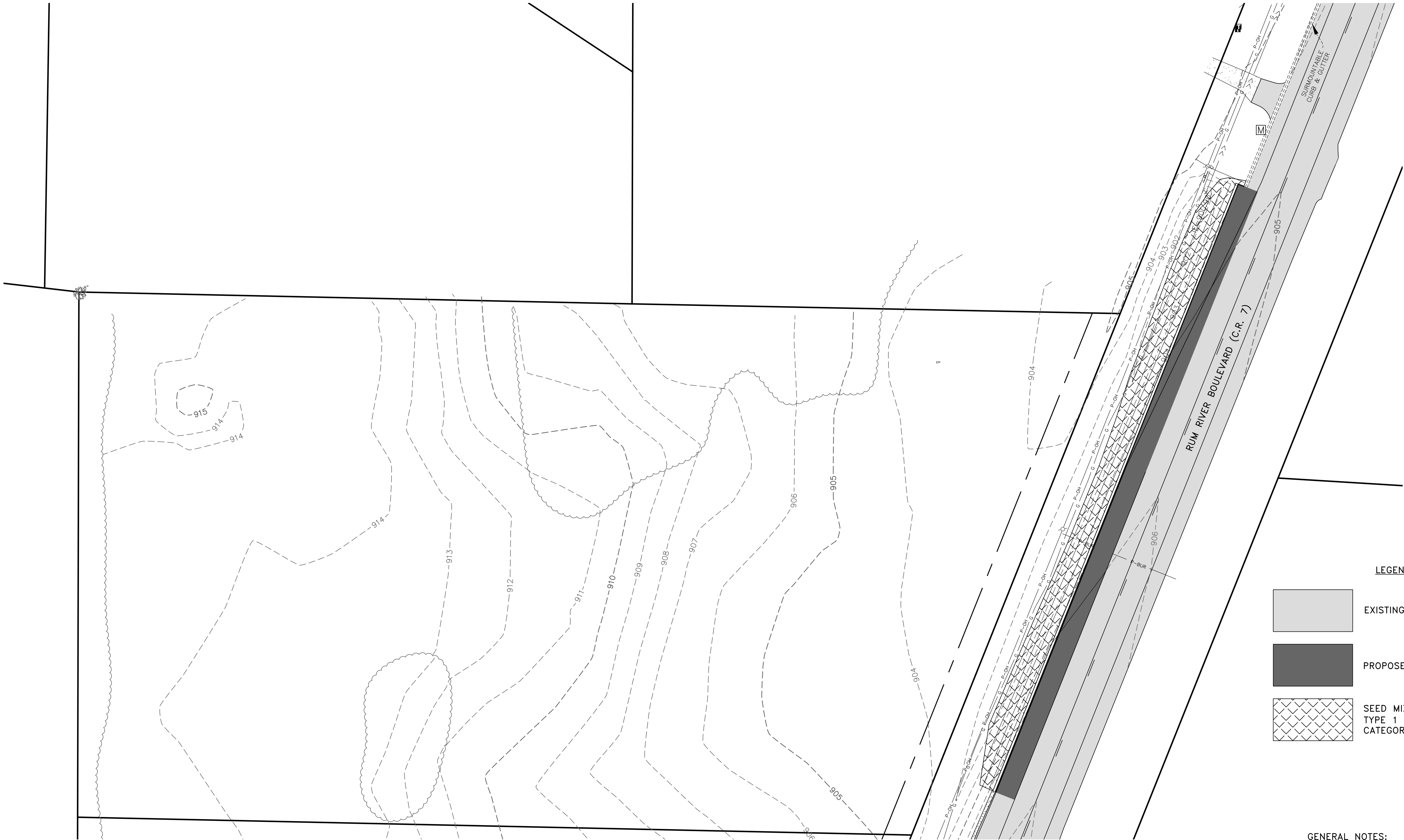
- EXISTING BITUMINOUS PAVEMENT
- PROPOSED BITUMINOUS PAVEMENT PER 1 C2
- SEED MIX 25-131 (220 POUNDS/ACRE)  
TYPE 1 FERTILIZER (300 POUNDS/ACRE)  
CATEGORY 3 EROSION CONTROL BLANKET
- SEED MIX 25-131 (220 POUNDS/ACRE)  
TYPE 1 FERTILIZER (300 POUNDS/ACRE)  
HYDRAULIC MULCH MATRIX (2500 POUNDS/ACRE)
- SEED MIX 33-261 (35 POUNDS/ACRE)  
TYPE 1 FERTILIZER (300 POUNDS/ACRE)  
HYDRAULIC MULCH MATRIX (2500 POUNDS/ACRE)

GENERAL NOTES:  
1. CONCRETE WALK SHALL BE CONSTRUCTED PER 3 C2.





Oct 05, 2020 -- 9:03am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_RESTORATION.dwg



LEGEND

- EXISTING BITUMINOUS PAVEMENT
- PROPOSED BITUMINOUS PAVEMENT
- SEED MIX 25-131 (220 POUNDS/ACRE)  
TYPE 1 FERTILIZER (300 POUNDS/ACRE)  
CATEGORY 3 EROSION CONTROL BLANKET

GENERAL NOTES:  
1. SEE SHEET C14 FOR THE RUM RIVER BOULEVARD  
RIGHT TURN LANE CONSTRUCTION PLAN.

DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggerichs*  
TIMOTHY A. EGGERICHS, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:
TAE
DRAWN BY:
TAE
CHECKED BY:
CJJ



**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

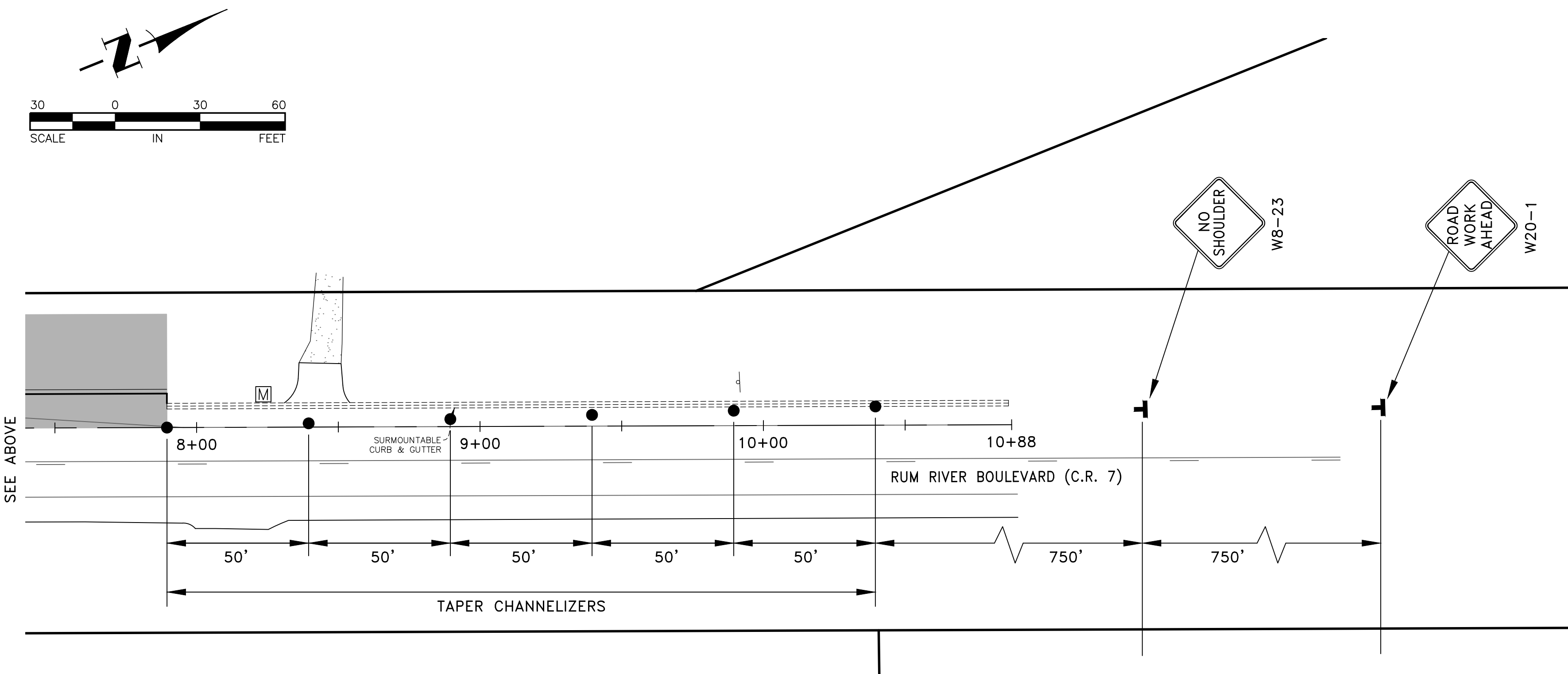
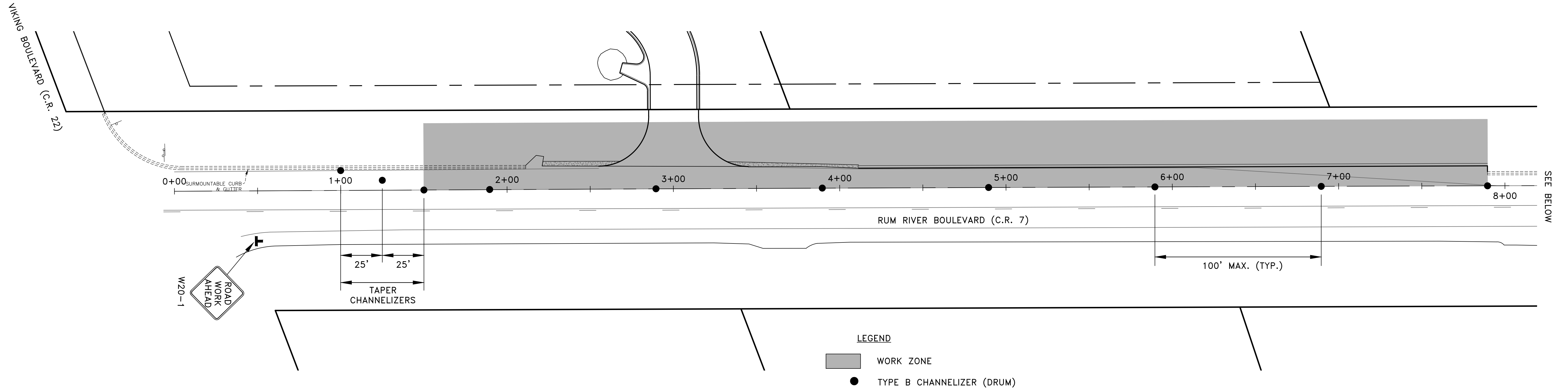
DEJA'S DOGGIE DAYCARE

RESTORATION PLAN

RUM RIVER BOULEVARD (C.R. 7)  
CITY OF OAK GROVE, MINNESOTA

SHEET	C12	OF	C16
			SHEETS

Oct 05, 2020 -- 9:03am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_TRAFFIC.dwg



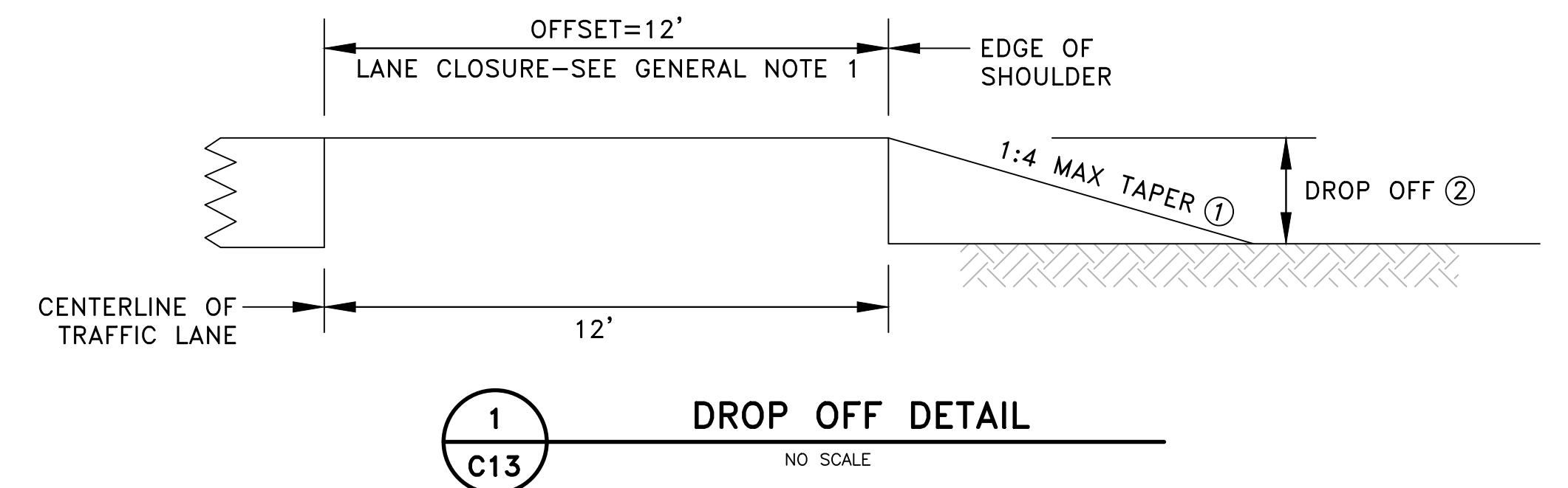
GENERAL NOTES:

- EXCEPT AS MODIFIED BY THIS PLAN, TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH LAYOUT 8 OF THE TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL. CONTRACTOR SHALL ALSO PROVIDE SIGNS PER FIGURE 6K-7 OF MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL FOR LONGITUDINAL DROP-OFF. NO DROP-OFF WILL BE ALLOWED TO REMAIN OVER NIGHT. WHEN CONTRACTOR IS PERFORMING WORK ON THE RIGHT TURN LANE, THE CONTRACTOR SHALL CLOSE THE ADJACENT THROUGH LANE AND PROVIDE TWO FLAGGERS PER LAYOUT 16. CLOSURES ARE ONLY ALLOWED BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M. PRIOR TO REMOVING FLAGGERS, THE CONTRACTOR SHALL PROVIDE A 1:4 TAPER CONSTRUCTED OF COMPACTED CLASS 5 AGGREGATE BASE AT ALL DROP-OFFS. SEE <sup>1</sup>/<sub>C13</sub> FOR ADDITIONAL INFORMATION.

- ALL TRAFFIC CONTROL FOR RUM RIVER BOULEVARD (C.R. 7) WILL BE PERMITTED THROUGH THE ANOKA COUNTY HIGHWAY DEPARTMENT. CONTRACTOR SHALL SUBMIT THE REQUIRED PERMIT APPLICATION MATERIALS TO THE ANOKA COUNTY HIGHWAY DEPARTMENT A MINIMUM OF TWO WEEKS PRIOR TO WORKING IN THE COUNTY RIGHT-OF-WAY.

REFERENCE NOTES:

- CONSTRUCT TAPER PRIOR TO OPENING THE TRAVEL LANE WHICH IS ADJACENT TO THE SHOULDER BEING WORKED ON.
- WHEN THE ADJACENT LANE IS CLOSED, THE MAXIMUM ALLOWABLE DROP OFF SHALL BE 36 INCHES. WHEN THE ADJACENT LANE IS REOPENED, THE MAXIMUM DROP OFF SHALL BE 12 INCHES.



DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggert*  
TIMOTHY A. EGGERT, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE  
DRAWN BY:  
TAE  
CHECKED BY:  
CJJ



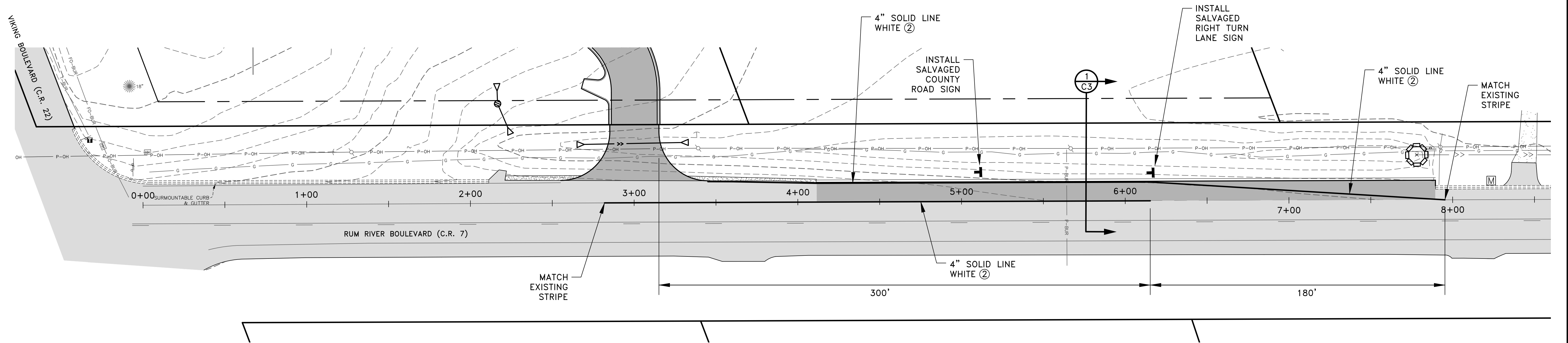
**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

**TRAFFIC CONTROL PLAN**  
**RUM RIVER BOULEVARD (C.R. 7)**  
**CITY OF OAK GROVE, MINNESOTA**

SHEET  
**C13**  
OF  
**C16**  
SHEETS  
4504.01

Oct 05, 2020 -- 9:03am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_CONSTRUCTION-COUNTY.dwg



LEGEND

- EXISTING BITUMINOUS PAVEMENT
- PROPOSED BITUMINOUS PAVEMENT
- INLET PROTECTION DEVICE ①

GENERAL NOTES:

1. SEE SHEET C13 FOR THE RUM RIVER BOULEVARD TRAFFIC CONTROL PLAN.
2. SEE SHEETS C15 AND C16 FOR THE RUM RIVER BOULEVARD CROSS SECTIONS.

REFERENCE NOTES:

- ① INSTALL INLET PROTECTION DEVICE PER ④ AT CULVERTS THAT MAY RECEIVE

STORMWATER RUNOFF FROM THE SITE.

- ② STRIPING MATERIAL SHALL BE MULTI-COMPONENT LIQUID.

DATE	REVISION
10/1/20	ISSUED FOR REVIEW

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.

*Timothy A. Eggen*  
TIMOTHY A. EGGEN, P.E.  
Date 9/17/20 Lic. No. 43362

DESIGNED BY:  
TAE

DRAWN BY:  
TAE

CHECKED BY:  
CJJ



**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

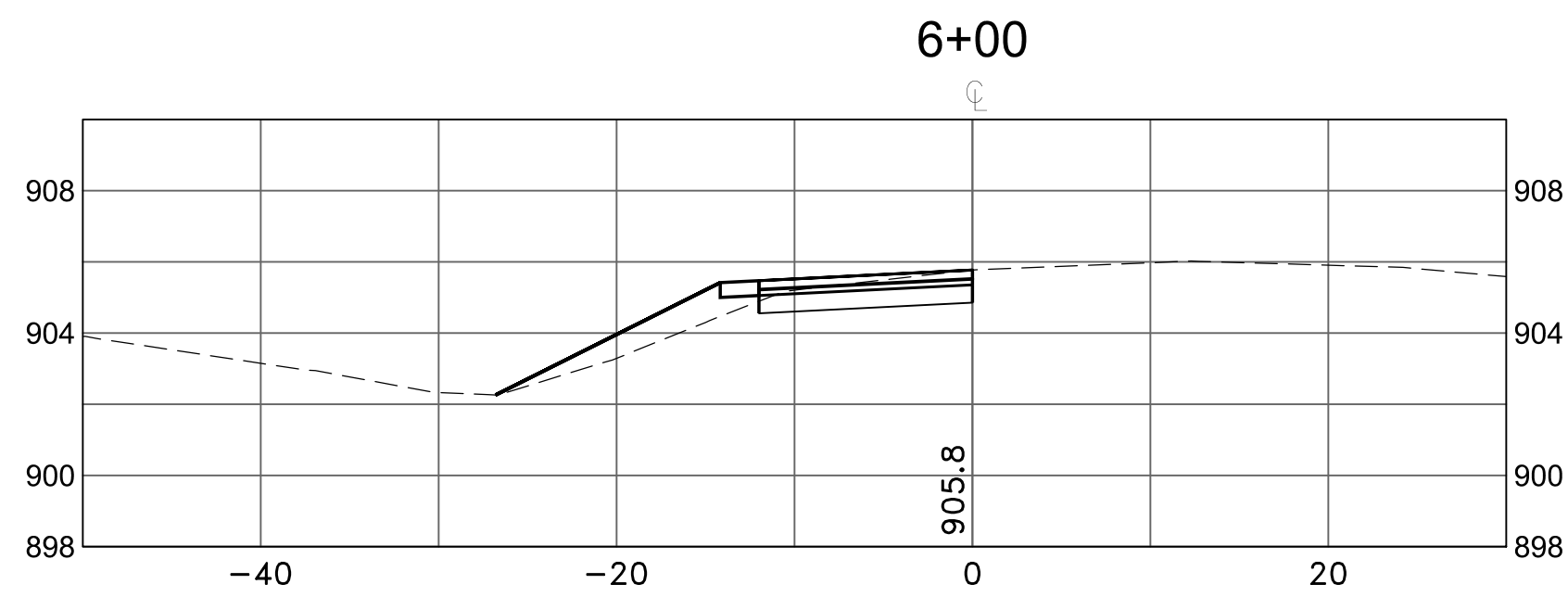
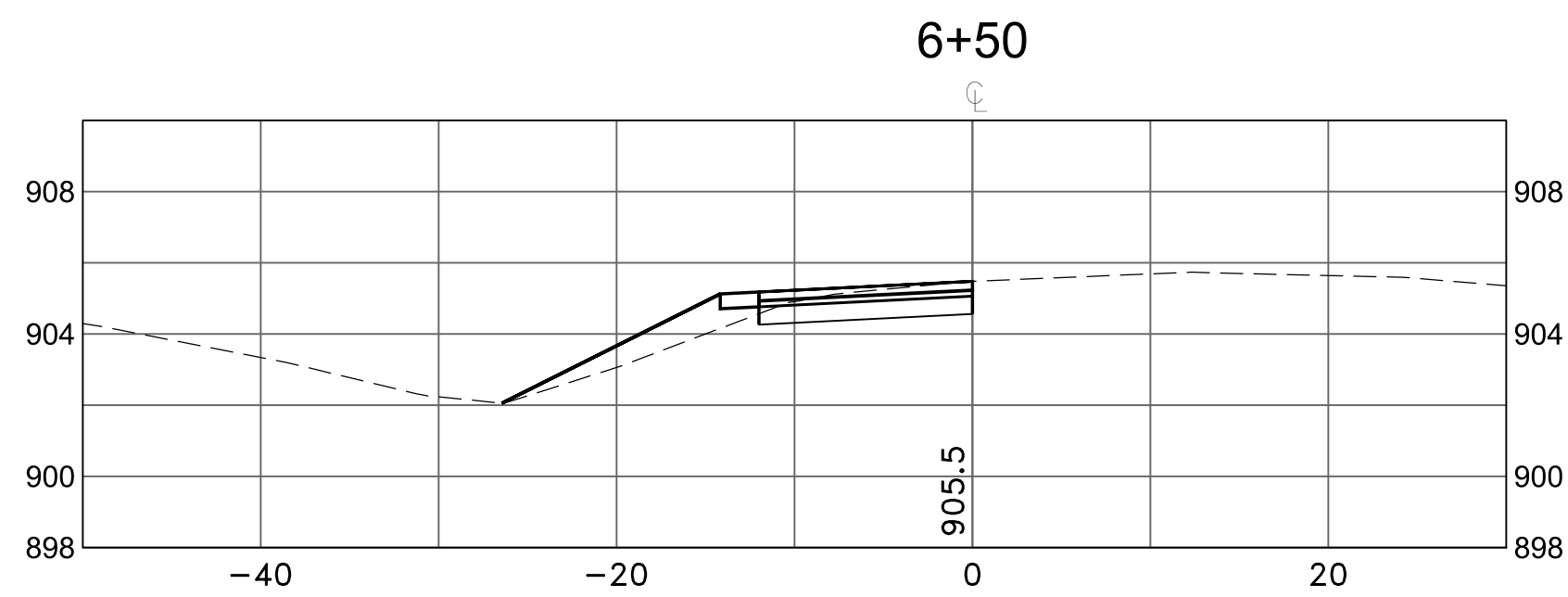
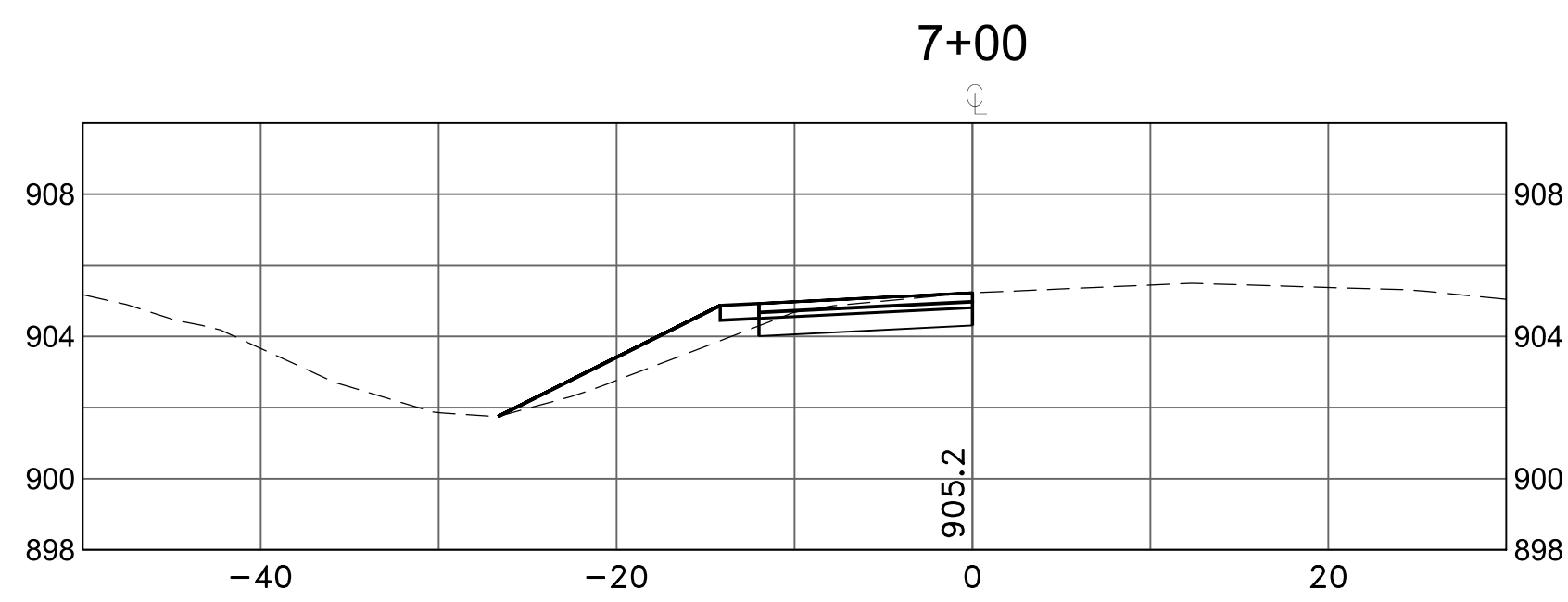
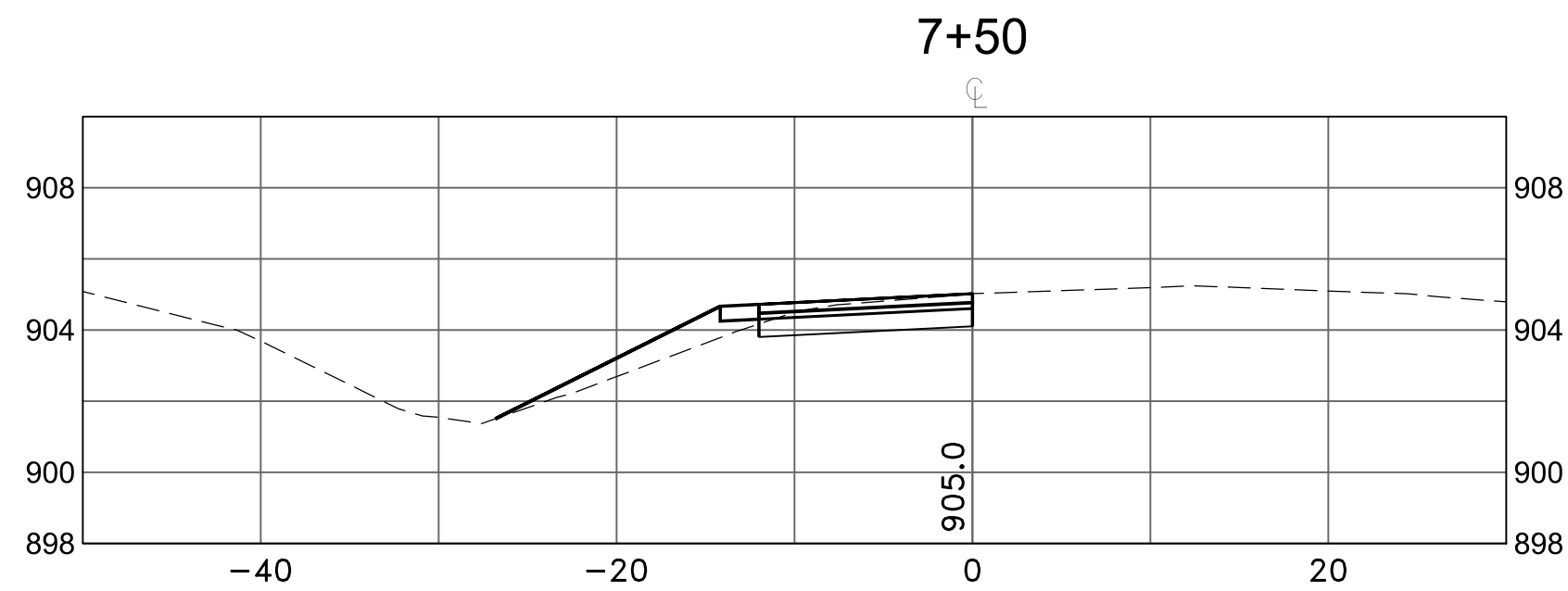
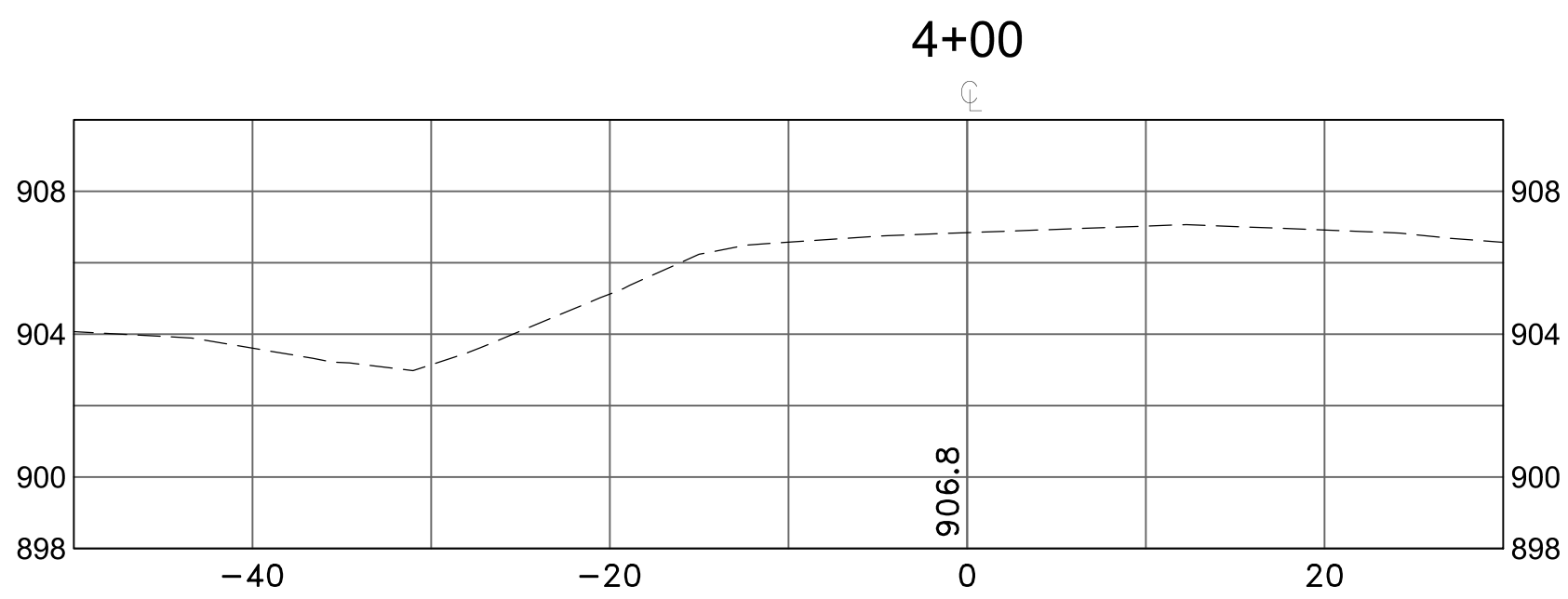
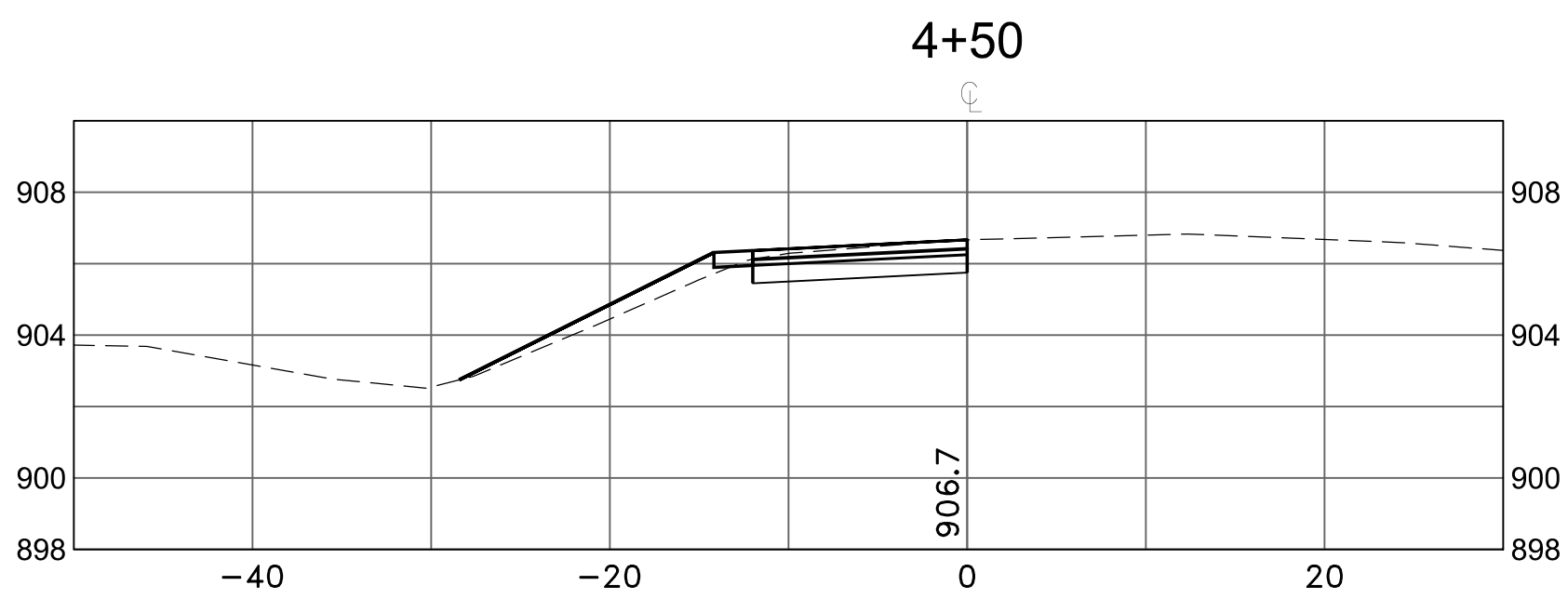
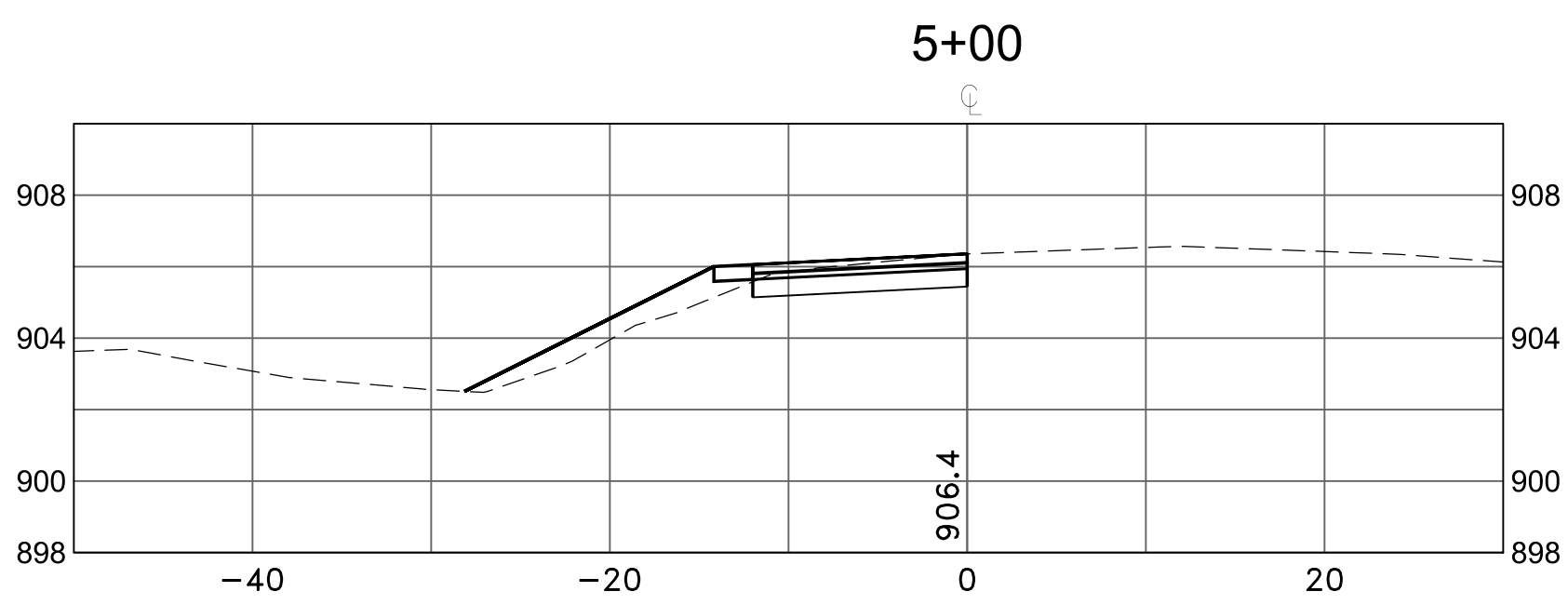
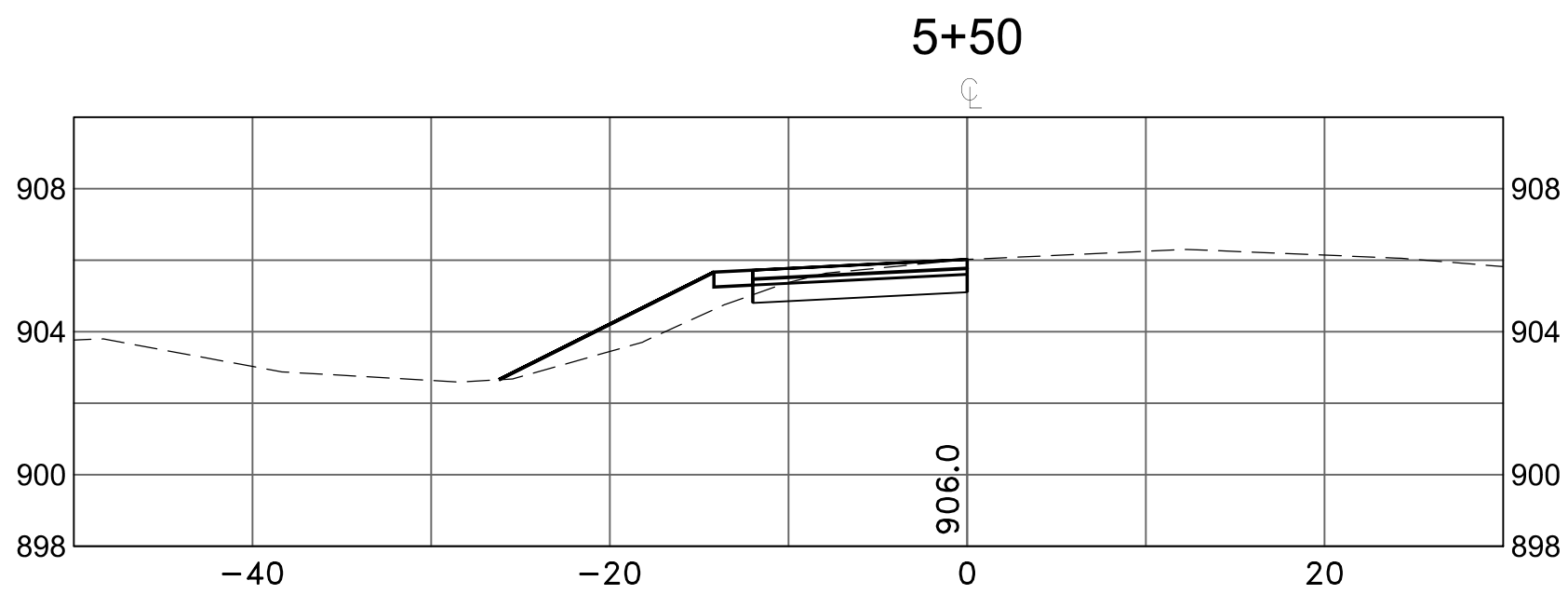
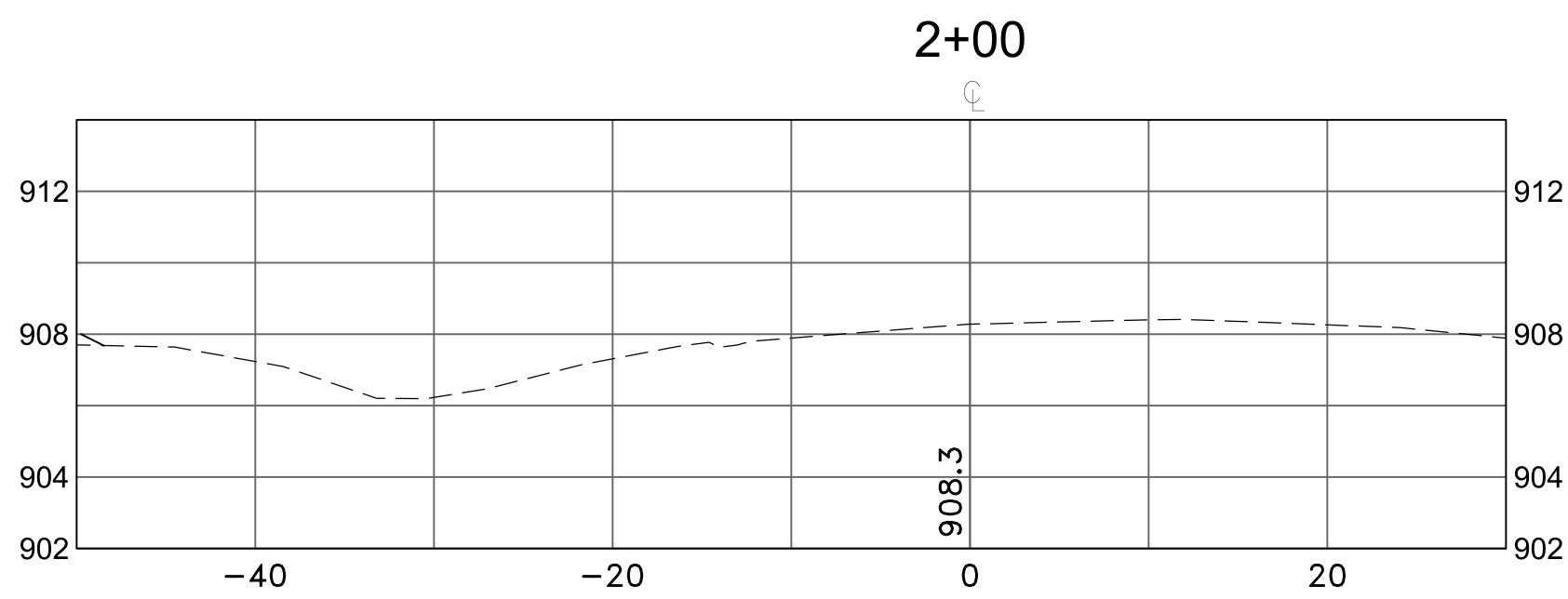
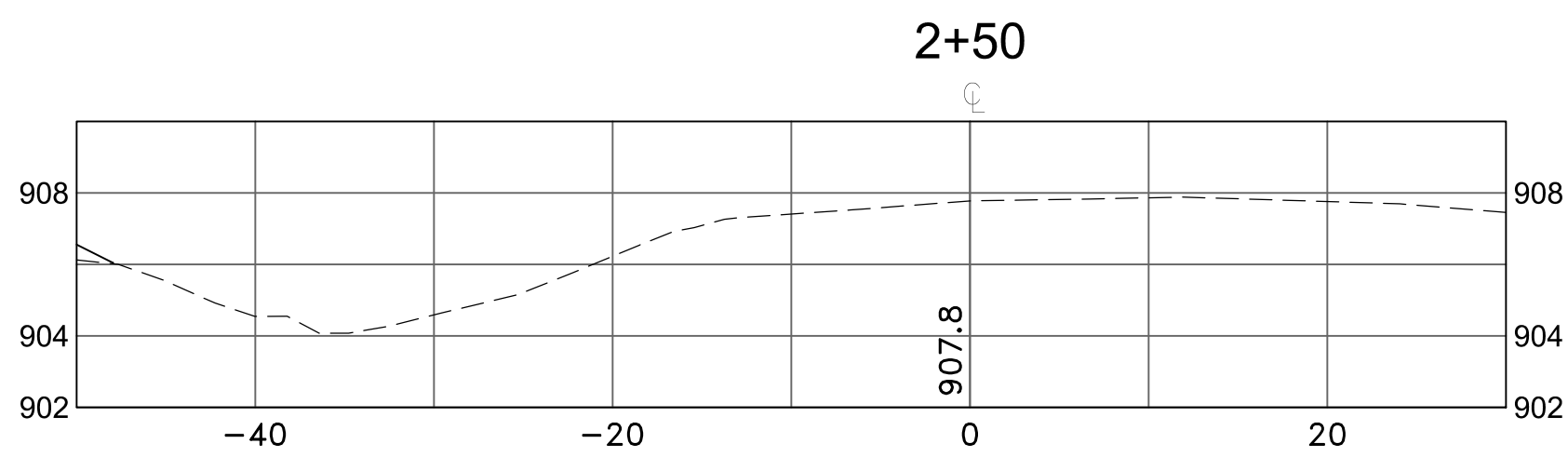
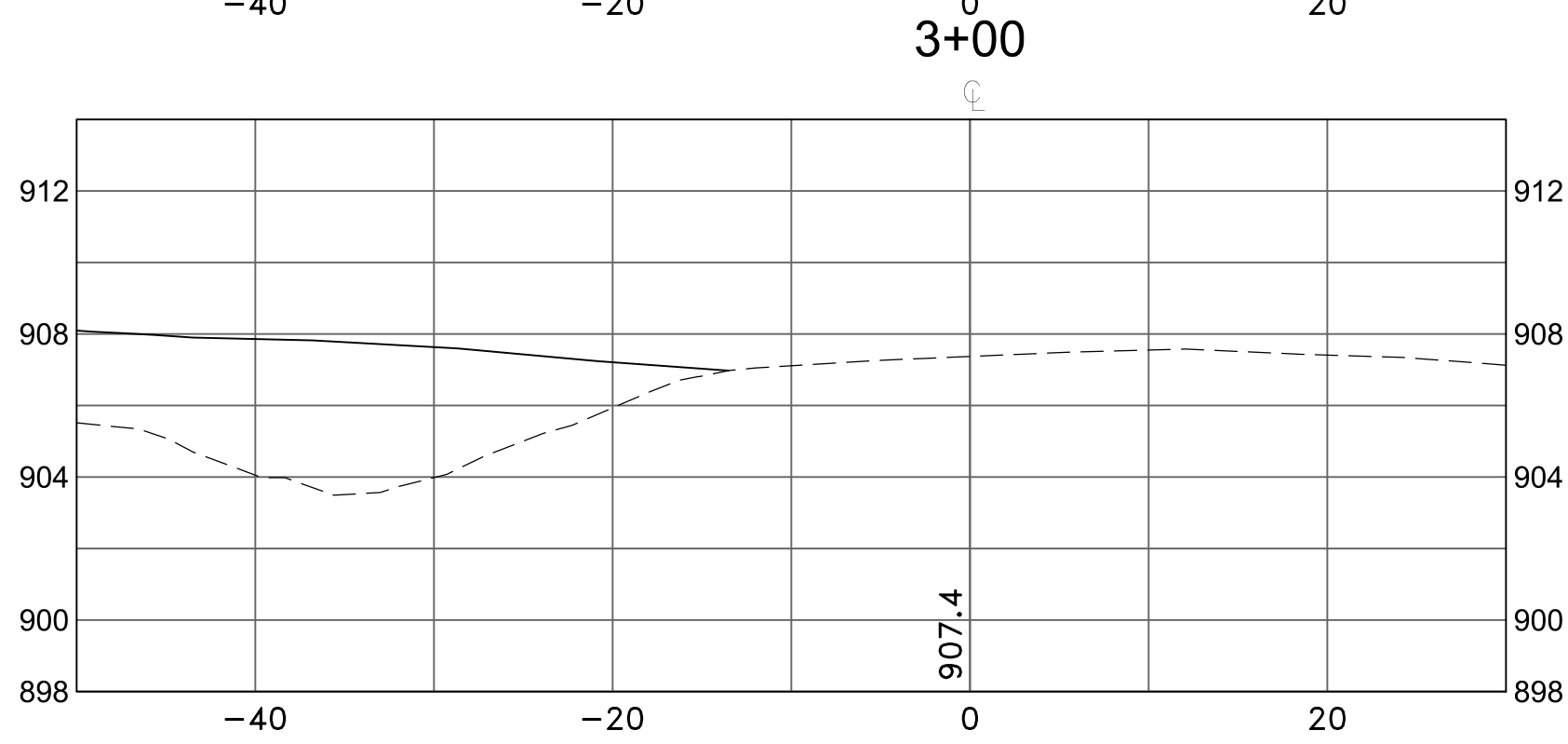
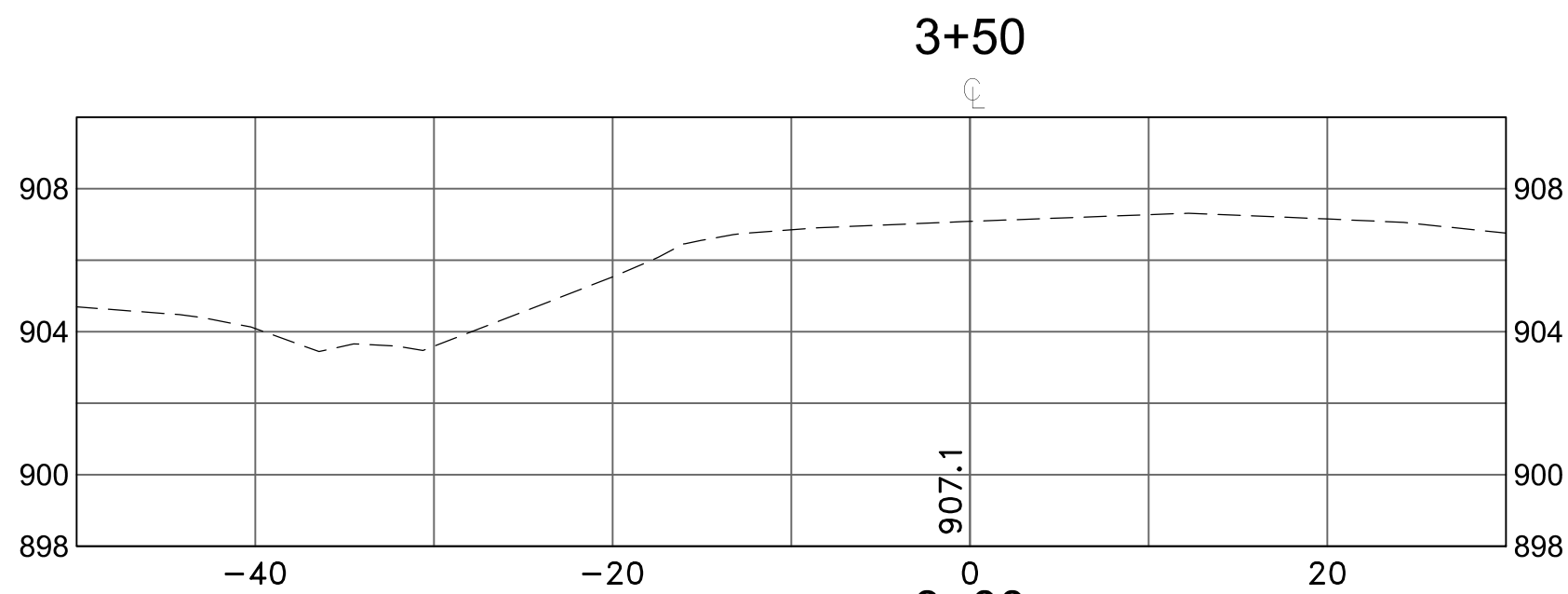
RIGHT TURN LANE CONSTRUCTION PLAN

RUM RIVER BOULEVARD (C.R. 7)  
CITY OF OAK GROVE, MINNESOTA

SHEET  
C14  
OF  
C16  
SHEETS  
4504.01



Oct 05, 2020 -- 9:03am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_CROSS SECTIONS-COUNTY.dwg



DATE	REVISION
10/1/20	ISSUED FOR REVIEW

DESIGNED BY:
TAE
DRAWN BY:
TAE
CHECKED BY:
CJJ



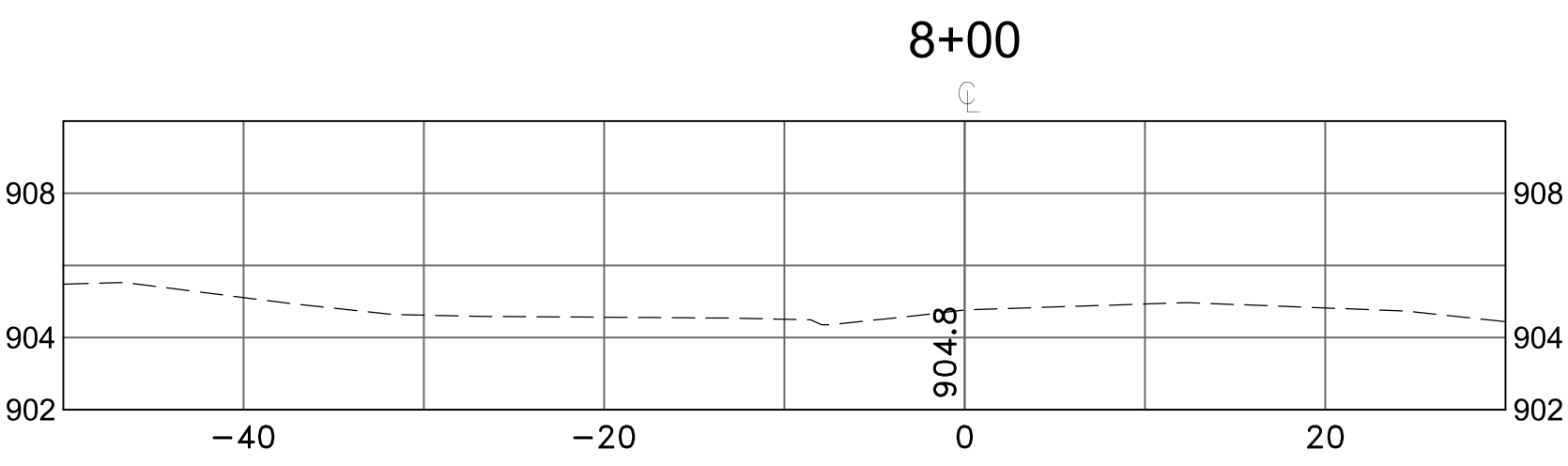
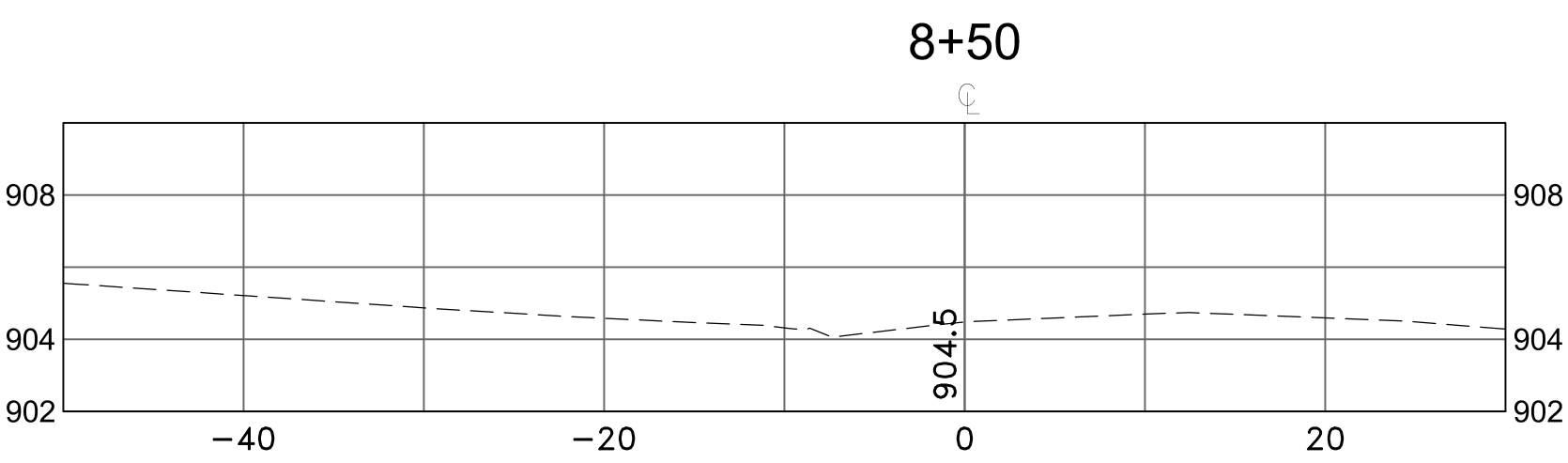
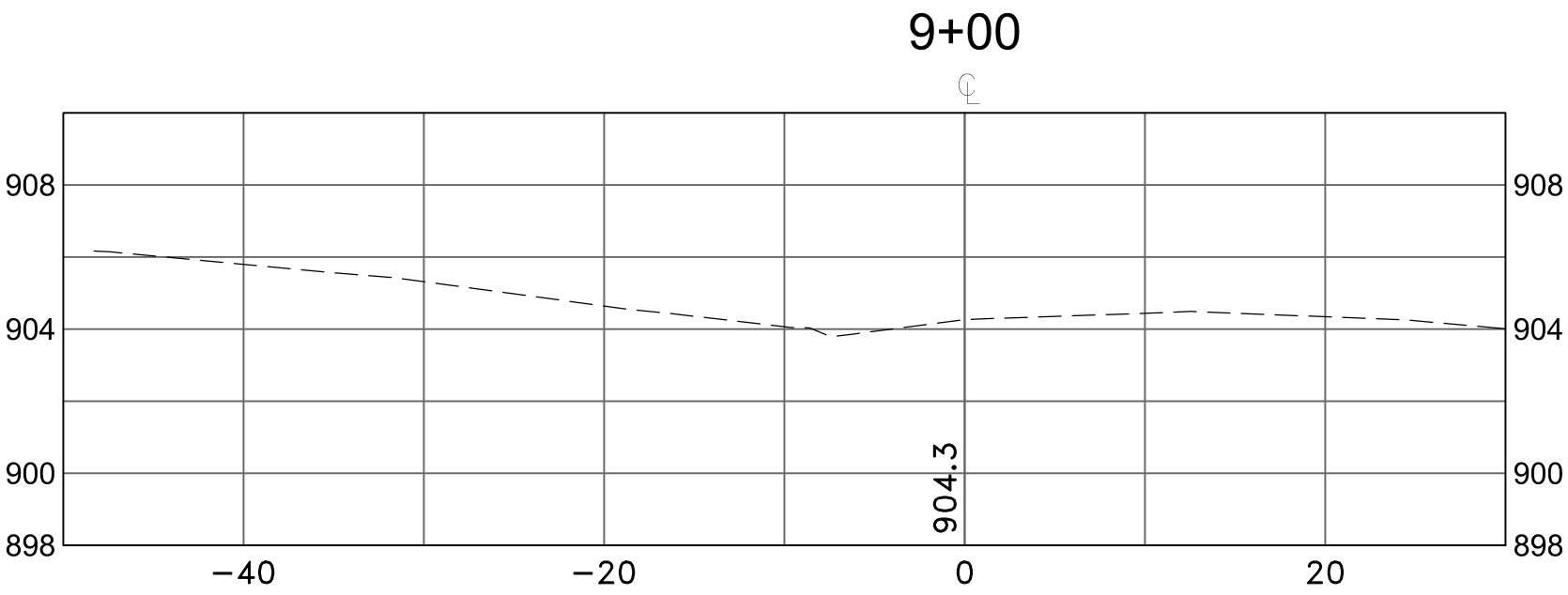
**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

CROSS SECTIONS  
  
RUM RIVER BOULEVARD (C.R. 7)  
CITY OF OAK GROVE, MINNESOTA

SHEET  
C15  
OF  
C16  
SHEETS

Oct 05, 2020 -- 9:03am  
K:\PRIVATE\4504.01\ENGINEERING\450401\_CROSS SECTIONS-COUNTY.dwg



DATE	REVISION
10/1/20	ISSUED FOR REVIEW

DESIGNED BY:
TAE
DRAWN BY:
TAE
CHECKED BY:
CJJ



**Hakanson Anderson**  
Civil Engineers and Land Surveyors  
3601 Thurston Ave., Anoka, Minnesota 55303  
763-427-5860 FAX 763-427-0520  
www.hakanson-anderson.com

DEJA'S DOGGIE DAYCARE

**CROSS SECTIONS**  
  
RUM RIVER BOULEVARD (C.R. 7)  
CITY OF OAK GROVE, MINNESOTA

SHEET  
C16  
OF  
C16  
SHEETS