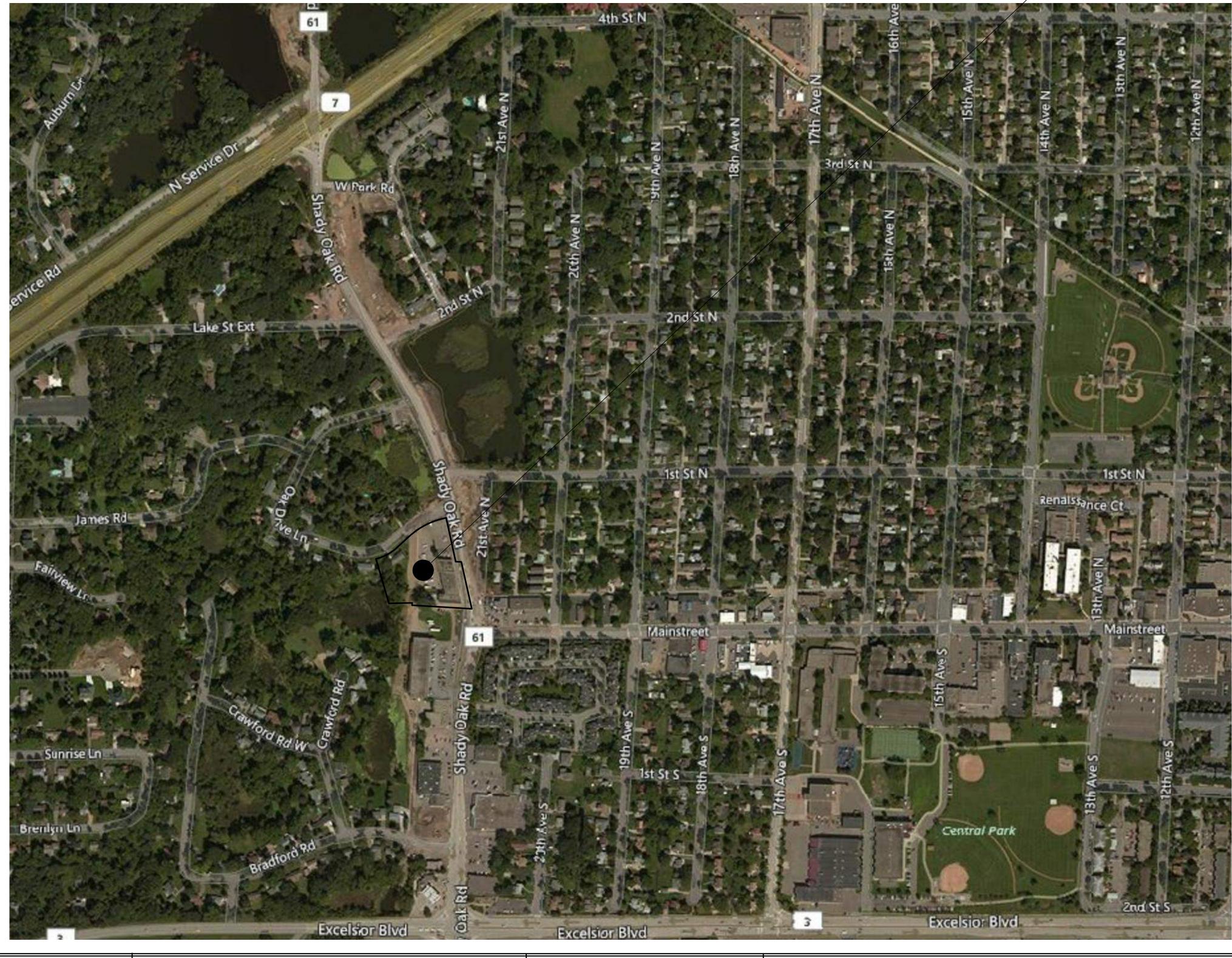
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG GOPHER STATE ONE CALL TWIN CITY AREA: 651-454-0002 TOLL FREE 1-800-252-1166



1	07/22/2017	PARKING STALL COUNT
NO.	DATE	DESCRIPTION
		REVISIONS



Civil Engineering
 Land Planning
 1800 Pioneer Creek Center,
 P.O. Box 249
 Maple Plain, MN 55359
 Phone: 763-479-5172
 Fax: 763-479-4242
 E-Mail: mcampion@campioneng.com



SHADY OAK CROSSING MINNETONKA, MN

- PROJECT LOCATION

I hereby certify that this plan, specification or report has been 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.

SHADY OAK CROSSING RON CLARK CONSTRUCTION MINNETONKA, MN

Martin P. Campion —Lic. # 19901 Date:

PROJECT DIRECTORY

<u>OWNER:</u> RON CLARK CONSTRUCTION & DESIGN MIKE ROEBUCK 7500 WEST 78TH STREET EDINA, MN 55439 PH. 952.947.3022 EMAIL: <u>MIKE@RONCLARK.COM</u>

ENGINEER: CAMPION ENGINEERING SERVICES, INC. MARTY CAMPION 1800 PIONEER CREEK CENTER MAPLE PLAIN, MN 55364 PH. 763.479.5172 EMAIL: <u>MCAMPION@CAMPIONENG.COM</u> <u>SURVEYOR:</u> WENCK ASSOCIATES 1800 PIONEER CREEK CENTER MAPLE PLAIN, MN 55359 PH. 763.479.4200

NOTE:

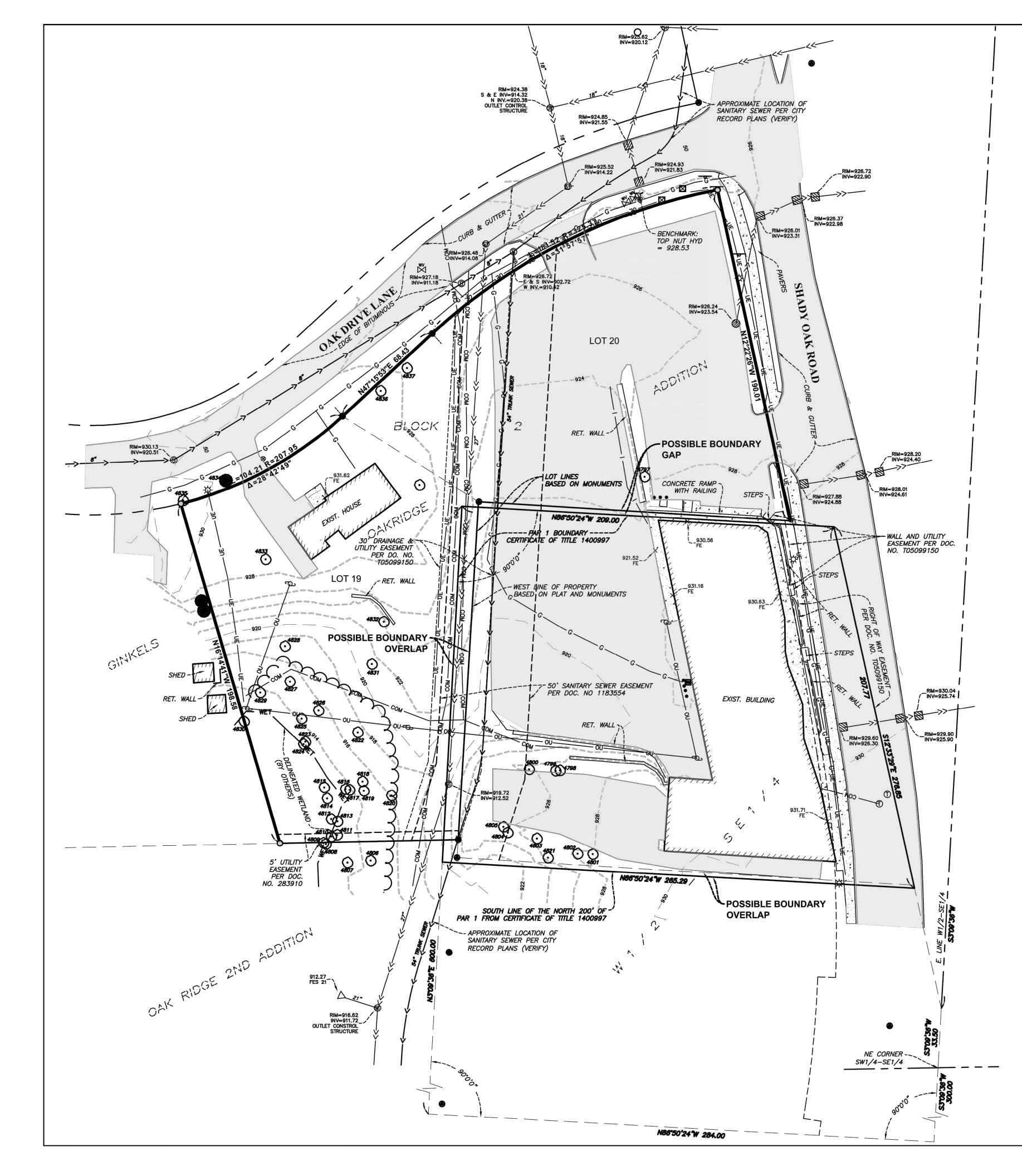
BOUNDARY AND TOPOGRAPHIC INFORMATION PER SURVEY PREPARED BY WENCK ASSOCIATES, DATED FEBRUARY 6, 2017.

GOVERNING SPECIFICATIONS:

- 1. THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD
- SPECIFICATIONS FOR CONSTRUCTION" LATEST EDITION & SUPPLEMENTS. 2. CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD UTILITIES
- SPECIFICATIONS. (LATEST EDITION) 3. ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCE WILL
- 3. ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCE WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.
- 4. CITY OF MINNETONKA STANDARD SPECIFICATIONS & DETAILS.

	INDEX
SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	CERTIFICATE OF SURVEY
3.	PRELIMINARY PLAT-SHADY OAK CROSSING
4.	PRELIMINARY SITE PLAN
5.	PRELIMINARY UTILITY PLAN
6.	PRELIMINARY GRADING PLAN
7.	PRELIMINARY STORM WATER POLLUTION PREVENTION PLAN
8.	TREE INVENTORY
9.	TREE PRESERVATION PLAN
10.	DETAILS
11.	DETAILS

CRAPHIC SCALE IN T	500 -EET
COVER SHEET	PROJECT NO: 17-011
SHEET NO. 1 OF 11 SHEETS	DATE: 07/24/2017



ELECTRIC TRANSFORMER

BOLLARD/POS

CONIFEROUS TREE

• DECIDUOUS TREE

WV WATER VALVE

💢 HYDRANT

---- TRAFFIC SIGN

യ UTILITY POLE

-X- LIGHT POLE

LEGEND

- O SET 3/4"ODx14" IRON PIPE WITH PLASTIC CAP 43055 OR MAG NAIL W/WASHER PROPERTY MARKER FOUND BY
- HENNEPIN COUNTY SURVEYOR FOUND MONUMENT
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- STORM SEWER INLET \bigcirc
- STORM SEWER INLET
- TELEPHONE MANHOLE E C
- GAS METER
- COMMUNICATIONS PEDESTAL **TP**
- E ELECTRIC MANHOLE

PROPERTY DESCRIPTION:

Certificate of Title 1400998

Lot 19 Block 2, Ginkels Oakridge Addition AND

Certificate of Title 1400997 Par 1:

All that portion of the tract or parcel of land described at paragraph "A" below, which lies Northerly of a line drawn parallel to and 200 feet Southerly of the North line thereof and the same extended, to—wit:

Paragraph "A". That portion of the West Half of the Southeast Quarter of Section 23, Township 117, Range 22, described as follows: Starting at the Northeast corner of the Southwest Quarter of the Southeast Quarter of said Section; thence South along the East line of the West Half of the Southeast Quarter of said Section, a distance of 300 feet; thence Westerly at right angles to said East line for a distance of 284 feet; thence Northerly along a line parallel to said East line a distance of 600 feet; thence Easterly along a line at right angles to said East line for said East line 209 feet to the center line of McGinty Road; thence Southeasterly along the center line of McGinty Road to the East line of the West Half of the Southeast Quarter of said Section 23; thence Southerly along said East line 33.5 feet to the point of beginning.

Par 2: Lot 20, Block 2, Ginkels Oakridge Addition

SURVEYORS NOTES:

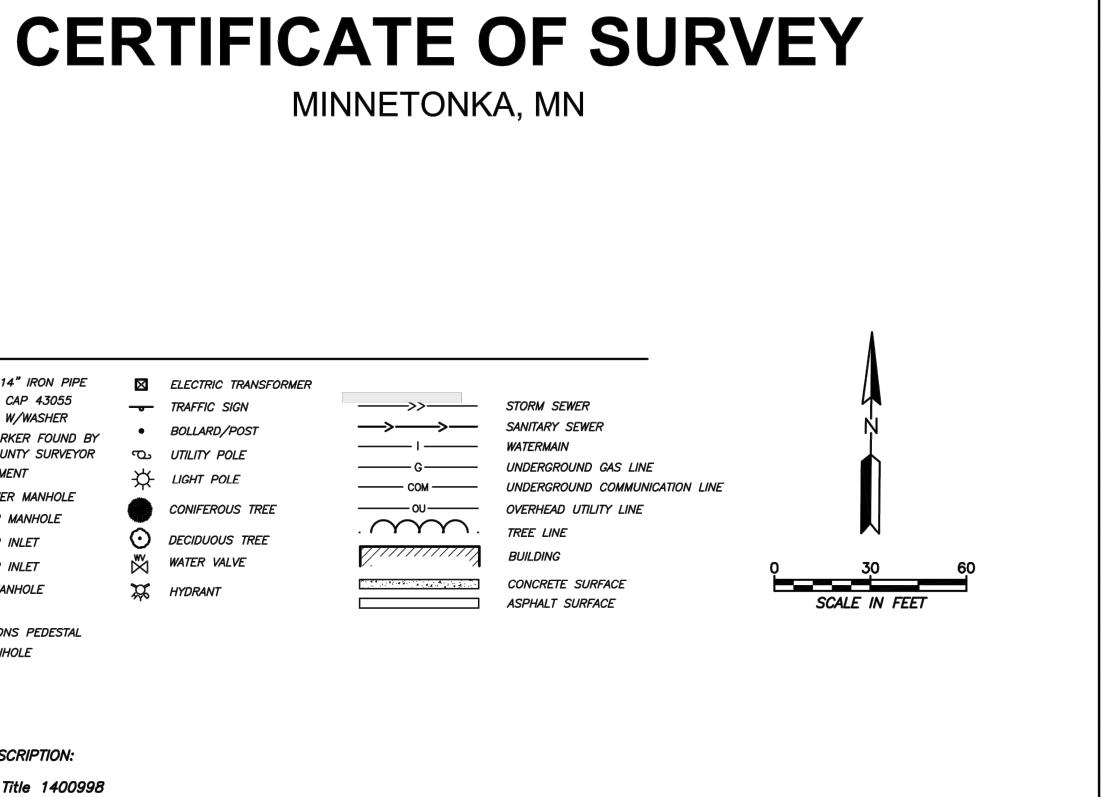
- 2. Horizontal Datum: Hennepin County Coordinate System NAD83(11)
- 3. Vertical Datum: NAVD88
- 4. Date of fieldwork: 2/3/2017
- 5. Gross area = 2.38 acres.
- are shown hereon.
- other encumbrances are shown or that the owner listed has fee title to the property.

SURVEYORS CERTIFICATION:

I hereby certify that this survey was completed by me or under my direct supervision and that I am a duly licensed land surveyor under the laws of the State of Minnesota.

Chris Ambourn Date LS **43**055

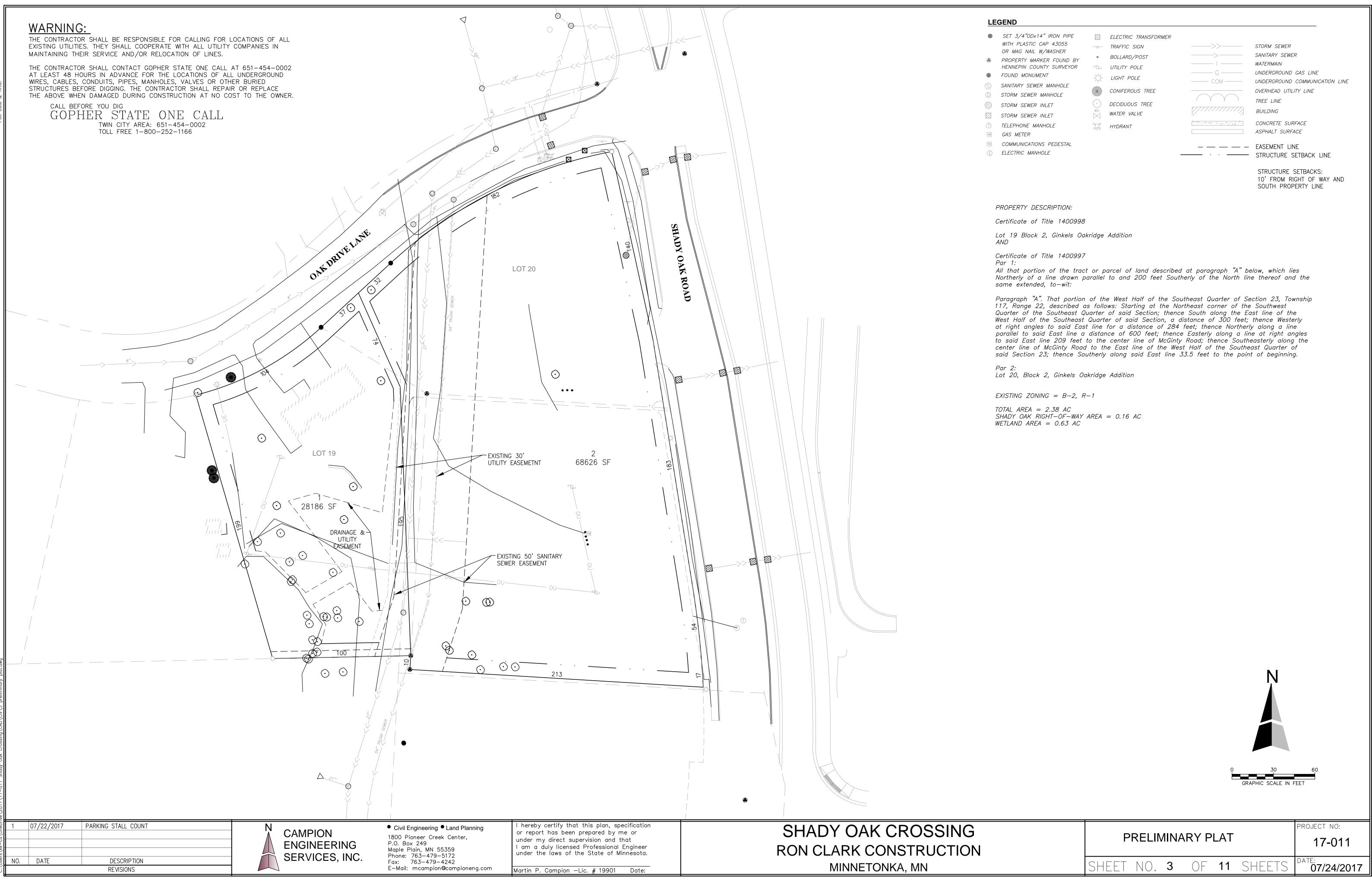




1. Utility lines shown hereon are based on field markings and maps provided to us as a result of Gopher State One Call private utility locate (Ticket Numbers 170260089, 170260090). the surveyor cannot guarantee that all utilities were marked or that the markings/maps are accurate.

6. Portions of the subject property were covered by snow and ice at the time of survey, the surveyor does not guarantee that all improvements 7. This survey was prepared based on a cursory title review, the surveyor does not guarantee that all or any adverse interests, easements or

NT	NAME				PROJECT	TITLE			
(RON CLA CONSTRUCTION		DES	IGN		CER	TIFICA	ATE SU	RVEY
					DWN BY		APP'D	DWG DATE	6-FEB-2017
					MLH	CNA	CNA	SCALE	1" = 30'
		XXX	XXX	XX/XX/XX	PROJECT	NO.	SHEET I	NO.	
	REVISION DESCRIPTION	DWN	APP	REV DATE	1531-	-0009		2	OF 11

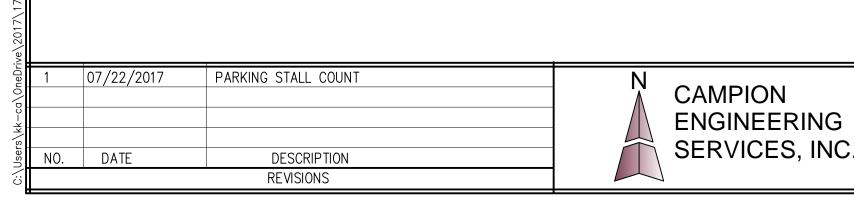


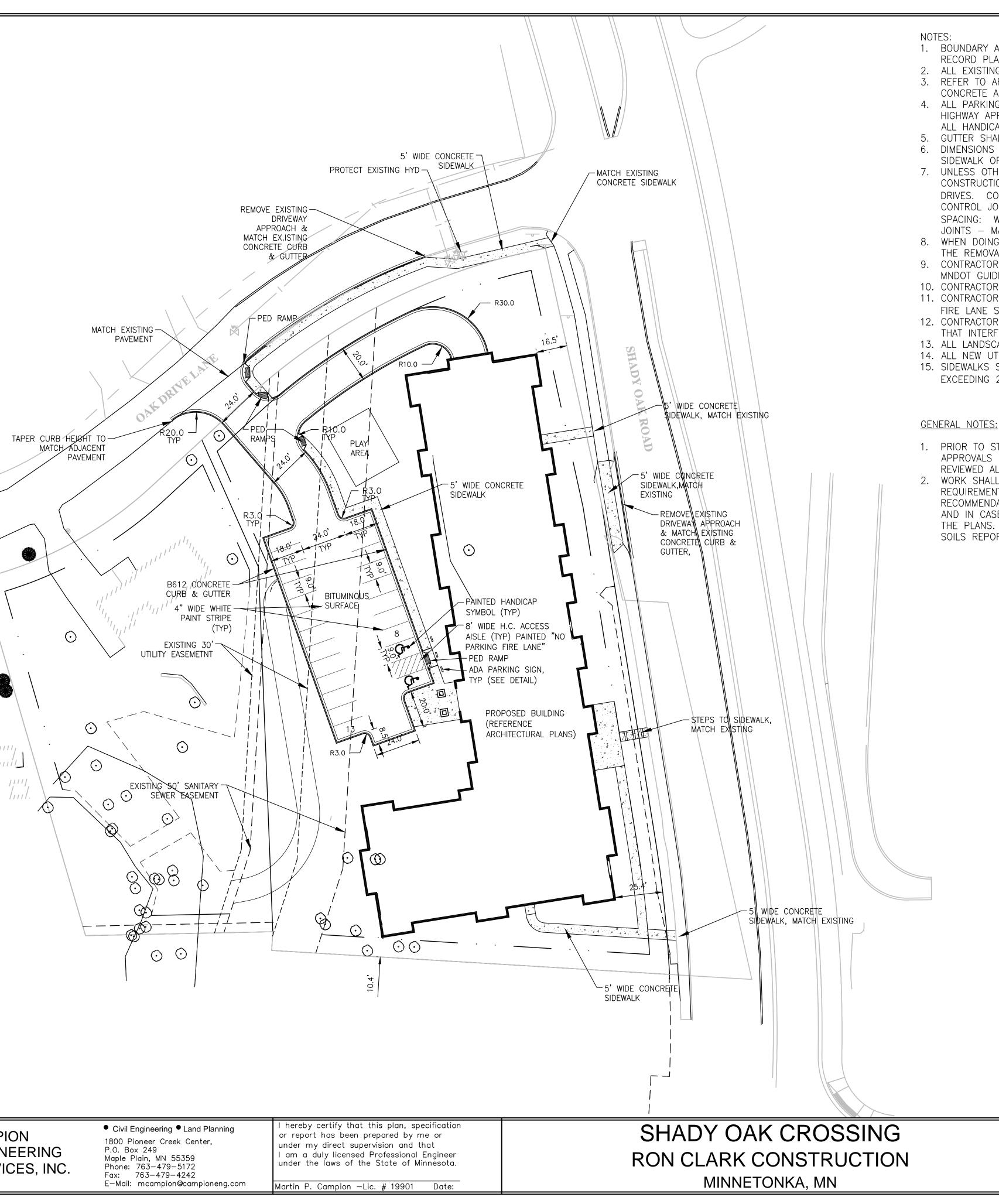
74"ODx14" IRON PIPE LASTIC CAP 43055 G NAIL W/WASHER RTY MARKER FOUND BY PIN COUNTY SURVEYOR MONUMENT Y SEWER MANHOLE SEWER INLET SEWER INLET	ELECTRIC TRANSFORMER TRAFFIC SIGN BOLLARD/POST UTILITY POLE LIGHT POLE CONIFEROUS TREE DECIDUOUS TREE WATER VALVE	 STORM SEWER SANITARY SEWER WATERMAIN UNDERGROUND GAS LINE UNDERGROUND COMMUNICATION LINE OVERHEAD UTILITY LINE TREE LINE BUILDING CONCRETE SURFACE
		BUILDING CONCRETE SURFACE ASPHALT SURFACE
NICATIONS PEDESTAL IC MANHOLE		 EASEMENT LINE STRUCTURE SETBACK LINE STRUCTURE SETBACKS: 10' FROM RIGHT OF WAY AND

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CALL BEFORE YOU DIG GOPHER STATE ONE CALL TWIN CITY AREA: 651-454-0002 TOLL FREE 1-800-252-1166





1. BOUNDARY AND EXISTING CONDITION INFORMATION PER SURVEY PREPARED BY WENCK AND CITY RECORD PLANS. 2. ALL EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR.

3. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND LOCATIONS OF EXITS, RAMPS, CONCRETE APRONS AND STOOPS.

4. ALL PARKING LOT STRIPING SHALL BE 4" WIDE LINES, STRIPED USING HIGH VISIBILITY TRAFFIC AND HIGHWAY APPROVED WHITE PAINT. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS FOR ALL HANDICAP PARKING AND ACCESS AISLES.

5. GUTTER SHALL BE CONSTRUCTED TO TIP OUT ALONG THE FRONT OF ALL BUILDINGS. 6. DIMENSIONS TAKE PRECEDENCE OVER SCALE. ALL DIMENSIONS ARE TO BACK OF CURB, EDGE OF SIDEWALK OR EXTERIOR BUILDING UNLESS OTHERWISE NOTED.

7. UNLESS OTHERWISE INDICATED ON THE PLAN, CONTRACTOR SHALL PROVIDE CONTROL JOINTS, CONSTRUCTION JOINTS, AND EXPANSION JOINTS IN SLAB ON GRADE, SIDEWALKS AND CONCRETE

DRIVES. CONTROL JOINT MAXIMUM SPACING: WALKS - 8' O.C., ALL OTHERS - 10' O.C. SAW CUT CONTROL JOINTS MINIMUM ONE-QUARTER CONCRETE THICKNESS. EXPANSION JOINT MAXIMUM SPACING: WALKS - 24' O.C., ALL OTHERS - 40' O.C. DOWEL ALL EXPANSION JOINTS - MAXIMUM 24" O.C.

8. WHEN DOING ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, THE CONTRACTOR SHALL COORDINATE

THE REMOVAL LIMITS WITH THE CITY. 9. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PEDESTRIAN RAMPS MEET ADA AND MNDOT GUIDELINES FOR ACCESSIBILITY.

10. CONTRACTOR SHALL VERIFY CONDUIT REQUIREMENTS FOR POWER AND IRRIGATION. 11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE FIRE MARSHAL THE LOCATION OF FIRE LANE SIGNAGE AND CURB MARKINGS (IF NEEDED).

12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING STRUCTURES THAT INTERFERE WITH NEW WORK AS SHOWN. 13. ALL LANDSCAPE AREAS ARE TO BE IRRIGATED.

14. ALL NEW UTILITIES SHALL BE UNDERGROUND. COORDINATE LOCATIONS WITH UTILITY PROVIDERS. 15. SIDEWALKS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2%. ANY SIDEWALK EXCEEDING 2% CROSS SLOPE MUST BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

1. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN UNTIL THE CONTRACTOR HAS REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY THE PERMITTING AUTHORITIES. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS REPORT AND RECOMMENDATION SET FORTH THERIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY BETWEEN THE SOILS REPORT AND PLANS.

	ADA REQUIREMENTS: CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PEDESTRIAN RAMPS MEET ADA AND MnDOT GUIDELINES FOR ACCESSIBILITY
	PARKING LOT STRIPING REQUIREMENTS: ALL PARKING LOT STRIPING SHALL BE 4" WIDE WHITE TRAFFIC AND HIGHWAY APPROVED MARKING PAINT AS APPROVED BY OWNER. H.C. PARKING AND ACCESS AISLES SHALL BE STRIPED AS INDICATED IN BLUE PAINT AND EACH H.C. STALL SHALL INCLUDE INTERNATIONAL SYMBOL OF ACCESSIBILITY CENTERED ON EACH STALL AS NDICATED ON PLANS.
H. ST ST ST 1C PF	OPOSED PARKING STALLS: C = 2 ANDARD ABOVE GROUND = 21 ANDARD UNDER GROUND = 66 TAL = 89 RUCTURE SETBACKS: ' FROM RIGHT OF WAY AND SOUTH OPERTY LINE EASEMENT LINE STRUCTURE SETBACK LINE CONCRETE SIDEWALK (PROPOSED) B 612 CONCRETE CURB AND GUTTER (PROPOSED) B 612 CONCRETE (PROPOSED) B 612 CONCRETE (PROPOSED) CONCRETE SIDEWALK (PROPOSED) CONCRETE SIDEWALK (PROPOSED) (PROPOSED) CONCRETE SIDEWALK (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED) (PROPOSED)
	PRELIMINARY SITE PLANPROJECT NO:17-011
	SHEET NO. 4 OF 11 SHEETS 07/24/2017

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07/22/2017	PARKING STALL COUNT
DATE	DESCRIPTION
	REVISIONS



Civil Engineering Land Planning 1800 Pioneer Creek Center, P.O. Box 249 Maple Plain, MN 55359 Phone: 763-479-5172 Fax: 763-479-4242 E-Mail: mcampion@campioneng.com

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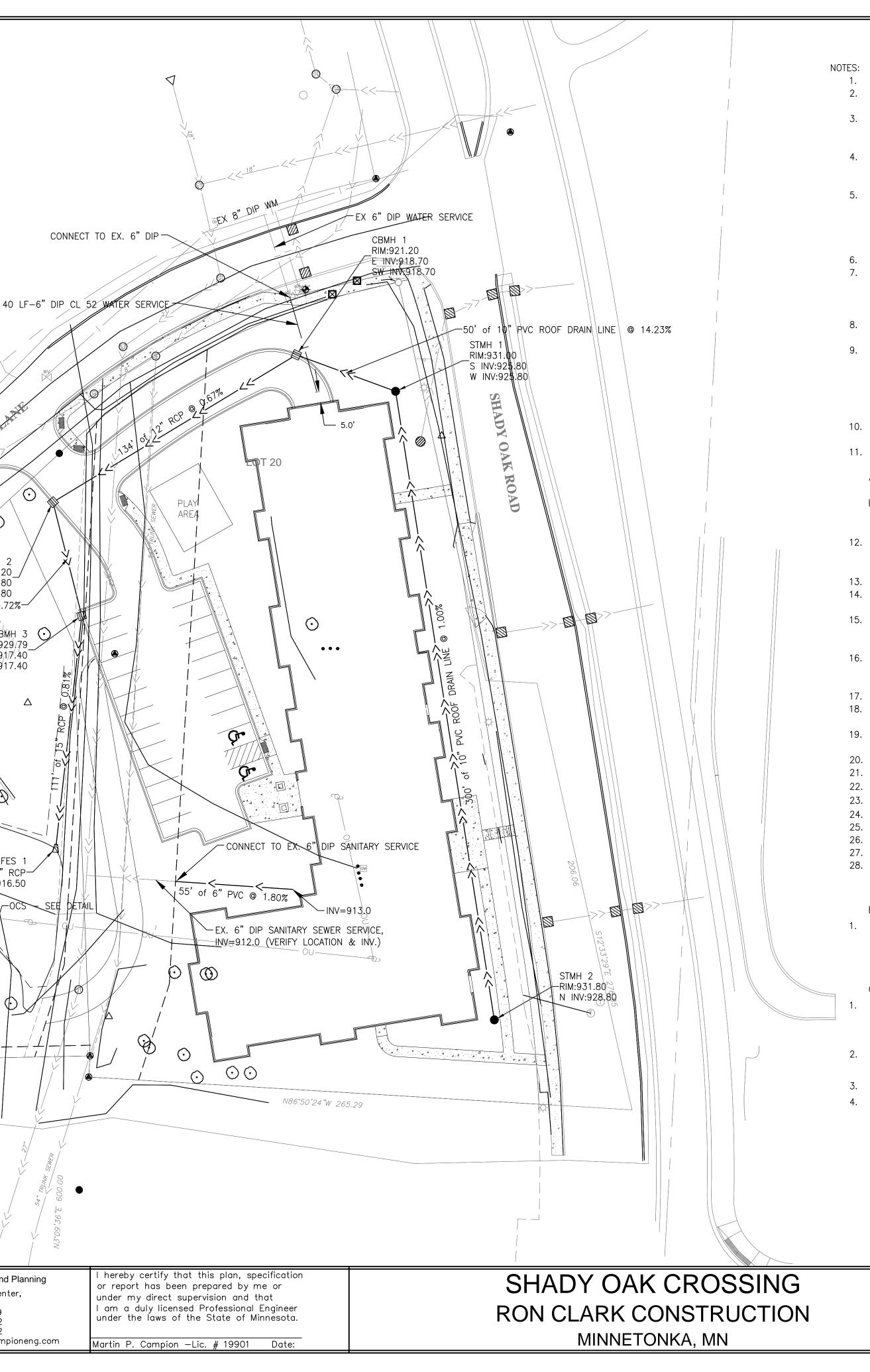
FES 1

15" RCP-JNV:916.50

RIM:928.20 NE INV:917.80

\S INV:917.80

55' of 12" RCP @ 0.72%-



EXISTING CONDITION INFORMATION PER SURVEY PREPARED BY WENCK ASSOCIATES AND CITY RECORD PLANS. THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY CONFLICTS. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND FACILITIES TO ALLOW PROPER FUNCTIONING DURING AND AFTER CONSTRUCTION. SUPPORTING STRUCTURES, IF REQUIRED, SHALL BE SUPPLIED BY THE CONTRACTOR AS WORK INCIDENTAL TO THE CONTRACT. 4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN EXISTING UTILITIES AND THE PROPOSED CONSTRUCTION. THE ENGINEER WILL COORDINATE WITH UTILITY COMPANY IN QUESTION TO DETERMINE THE NEED FOR RELOCATION OF THE EXISTING UTILITY. EXISTING CONDITIONS SUCH AS SAND IN MANHOLES OR VALVE BOXES SHALL BE IDENTIFIED BY THE CONTRACTOR AND THESE SHALL BE REPORTED TO THE ENGINEER PRIOR TO EXCAVATION BY THE CONTRACTOR. ONCE CONSTRUCTION HAS BEGUN, ALL DAMAGE TO UNDERGROUND UTILITIES WILL BE ASSUMED TO HAVE BEEN CAUSED BY THE CONTRACTOR, AND REPAIRS NECESSARY SHALL BE PERFORMED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. FINAL PLAT SHALL GOVERN FOR EASEMENTS AND LOT LINES. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL JURISDICTION TO OBTAIN PERMITS AND METER FOR WATER SOURCE. ALL ASSOCIATED COSTS SHALL BE INCIDENTAL TO THE CONTRACTOR, INCLUDING DISPOSAL OF TEST WATER INTO CITY'S SANITARY SEWER SYSTEM. THE CONTRACTOR SHALL NOT OPERATE GATE VALVES OR HYDRANTS ON THE CITY WATER SYSTEM WITHOUT FIRST RECEIVING CITY APPROVAL. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND THE PROJECT ENGINEER 48 HOURS PRIOR TO STARTING WORK OR AS REQUIRE BY THE CITY. 9. THE CONTRACTOR SHALL KEEP ACCESS ROADS CLEAR OF SOIL OR OTHER DEBRIS, AND PERFORM DAILY STREET CLEANING AS REQUIRED. POSITIVE DRAINAGE, CONTROLLED WITH EROSION CONTROL AND EROSION PREVENTION MEASURES AS REQUIRED SHALL BE PERFORMED. INLET PROTECTION SHALL BE INSTALLED WITHIN 48 HOURS AFTER INLET CONSTRUCTION. UNLESS SPECIFIED ON THE PLANS OR AS A BID ITEM ON THE BID FORM, ANY TEMPORARY CULVERTS, DITCHES, FILTER FABRIC, ETC. NECESSARY TO ACCOMPLISH THIS SHALL BE PERFORMED AS INCIDENTAL TO THE CONTRACT. 10. THE CONTRACTOR SHALL PRESERVE AND PROTECT THE MARKERS AND MONUMENTS SET FOR THE SUBDIVISION OF LAND. 11. THE CONTRACTOR SHALL SCHEDULE THE SOILS ENGINEER TO FACILITATE CERTIFICATION OF ALL CONTROLLED FILLS IN A TIMELY FASHION. DENSITY TESTS SHALL MEET THE FOLLOWING: A. DENSITY TESTS SHALL BE TAKEN ON ALL TRENCHES AT LOCATIONS AS DETERMINED BY THE ENGINEER OF HIS REPRESENTATIVE. B. WITHIN 3 FEET OF PAVEMENT SUBGRADE, CONTRACTOR SHALL UTILIZE IMPROVED SOILS THAT ARE WITHIN 1% OPTIMUM MOISTURE CONTENT. COMPACTION SHALL MEET 100% STANDARD PROCTOR. BELOW THE UPPER 3FEET, COMPACTION SHALL BE 95%. GRADING TOLERANCE SHALL BE 0.1'. 12. THE OWNER SHALL PAY FOR ALL COMPACTION TESTING. ANY AREAS WHICH FAIL TO MEET THE ABOVE STANDARDS SHALL RE CORRECTED AND RE-TESTED BY THE OWNER'S TESTING AGENT AT THE CONTRACTOR'S EXPENSE. 13. SANITARY SEWER AND WATERMAIN SHALL BE INSTALLED AT ELEVATIONS SHOWN ON THE PLAN. 14. WHERE WATERMAIN MUST BE LOWERED TO AVOID CONFLICT WITH ANOTHER UTILITY, THE COST OF BENDS, FITTINGS, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. 15. CONTRACTOR SHALL PROVIDE TEMPORARY TRAFFIC CONTROL IN COMPLIANCE WITH THE CURRENT MNDOT "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL" FOR CONSTRUCTION ADJACENT TO TRAVEL WAYS. 16. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE DEPTH OF EXISTING UTILITIES LISTED ON THIS PLAN PRIOR TO ORDERING OF ANY FITTINGS, STRUCTURES, CASTINGS, ETC. ENGINEER AND THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES FOUND AS DEPTHS ARE ESTIMATED. 17. CONTACT CITY FOR INSPECTION PRIOR TO CONNECTING TO EXISTING CITY UTILITIES. CONTRACTOR TO COMPLY WITH ALL REGULATORY AGENCY PERMIT CONDITIONS FOR PERMITS OBTAINED BY OWNER AND FOR PERMITS OBTAINED BY GENERAL CONTRACTOR. ALL WORK PERFORMED AND MATERIALS USED FOR CONSTRUCTION OF UTILITIES MUST CONFORM TO THE CITY OF MINNETONKA STANDARD SPECIFICATIONS AND DETAILS. 20. SANITARY SEWER SERVICE SHALL BE EITHER 6" PVC SDR 35. WATER SERVICE SHALL BE 6" DIP CLASS 52 WITH 4 MIL POLY WRAP 22. WATER SERVICE SHALL BE INSTALLED WITH 7.5' COVER MINIMUM. VERIFY LOCATION OF FIRE DEPARTMENT CONNECTION (FDC) WITH MECHANICAL ENGINEER. INSTALL SERVICES TO WITHIN 5' OF THE BUILDING. VERIFY LOCATION WITH MECHANICAL ENGINEER. ALL 12" - 15" RCP STORM SEWER SHALL BE CLASS V. ALL STORM SEWER SHALL HAVE CLASS C BEDDING. HDPE STORM SEWER SHALL BE DUAL WALL CORRUGATED WITH SMOOTH INTERIOR. 28. ALL STRUCTURE ADJUSTMENT SHALL BE CONSIDERED INCIDENTAL TO PAVING. **BENCHMARK:** 1. TOP NUT HYDRANT NE CORNER OF SITE. ELEVATION 928.53 GOVERNING SPECIFICATIONS: MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" LATEST EDITION AND SUPPLEMENTS. CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD UTILITIES SPECIFICATION. LATEST EDITION. CITY OF MINNETONKA STANDARD SPECIFICATIONS AND DETAILS ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCE WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

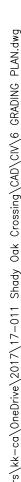
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PRELIMINARY UTILITY PLAN	PROJECT NO: 17-011
SHEET NO. 5 OF 11 SHEETS	DATE: 07/24/2017

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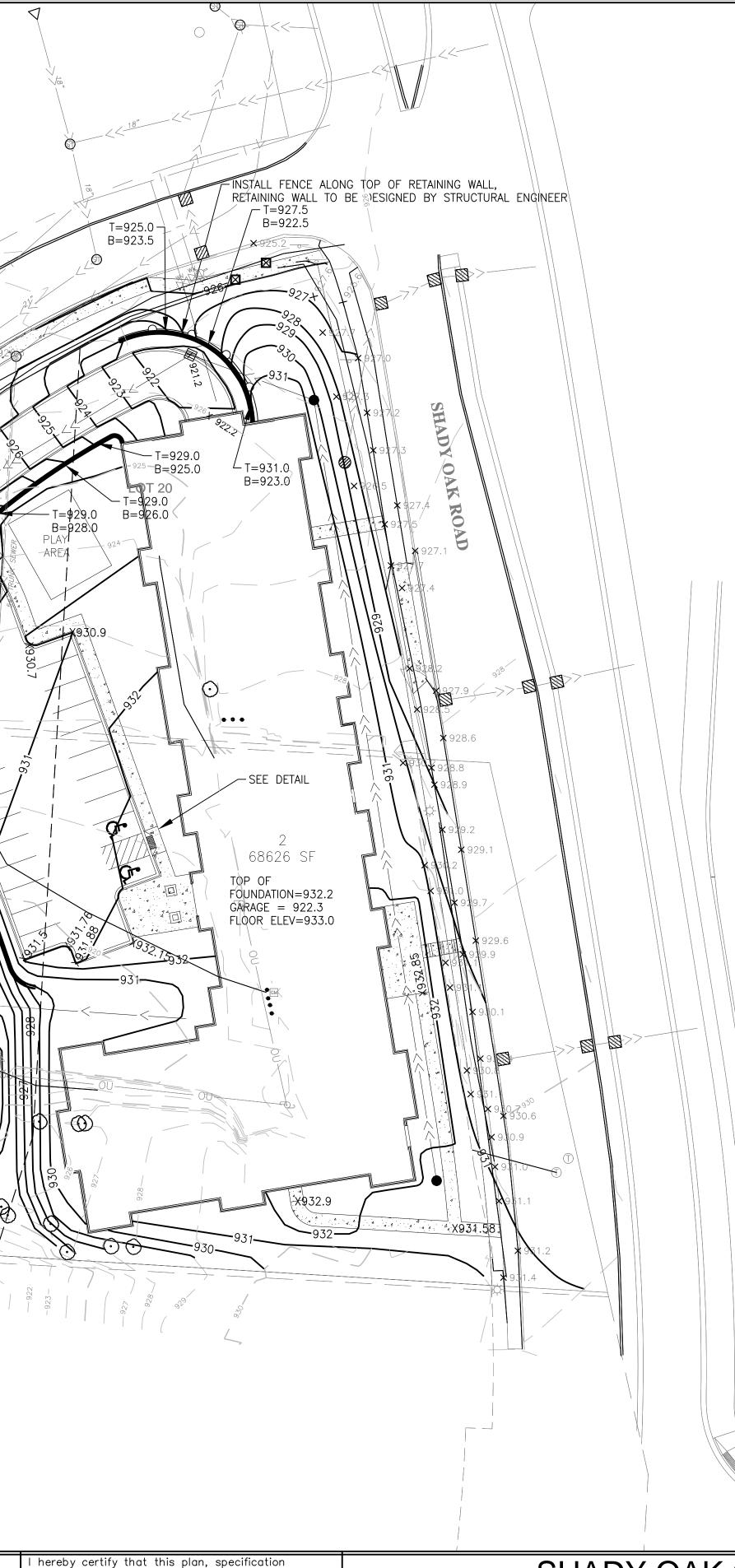
CALL BEFORE YOU DIG GOPHER STATE ONE CALL TWIN CITY AREA: 651-454-0002 TOLL FREE 1-800-252-1166



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1 07/22/2017 PARKING STALL COUNT	N OAMPION	 ● Civil Engineering ● Land Planning
	CAMPION	1800 Pioneer Creek Center,
		P.O. Box 249 Maple Plain, MN 55359 Phone: 763-479-5172
NO. DATE DESCRIPTION	SERVICES, INC.	Fax: 763–479–4242
REVISIONS		E-Mail: mcampion@campioneng.con

- LA

OAKDRIVEL



or report has been prepared by me or under my direct supervision and that am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Martin P. Campion -Lic. # 19901 Date:

SHADY OAK CROSSING **RON CLARK CONSTRUCTION** MINNETONKA, MN

GRADING NOTES

- TO THE OWNER AND THE REGULATING AGENCIES.

- ACCORDANCE WITH THE SOILS REPORT. 13. TOLERANCES:
- UNLESS DIRECTED BY THE ENGINEER. c. TOPSOIL SHALL BE GRADED TO PLUS OR MINUS ½ INCH OF THE SPECIFIED THICKNESS.
- UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- ELEVATION.
- ALONG MATCHING PAVEMENT AREAS AND/OR CURBS.
- SOILS ENGINEER.

CAUTION NOTES:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.

THE CONTRACTOR MUST CONTACT ALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE LOCATIONS OF SMALL UTILITIES SHALL BE OBTAINED BY THE CONTRACTOR BY CALLING GOPHER STATE ONE CALL AT 800-252-1166 OR 651-454-0002.

POND GRADING

- THE POND AREA.
- GRADING.

CAUTION NOTES:

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CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES. 2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.

3. THE CONTRACTOR MUST CONTACT ALL APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE LOCATIONS OF SMALL UTILITIES SHALL BE OBTAINED BY THE CONTRACTOR BY CALLING GOPHER STATE ONE CALL (1-800-252-1166).

4. SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL

DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS 6. THE CONTRACTOR SHALL RESTRICT ALL GRADING AND CONSTRUCTION ACTIVITIES TO AREAS DESIGNATED ON THE PLANS. ACTIVITIES PROHIBITED OUTSIDE THE CONSTRUCTION BOUNDARIES INCLUDE, BUT ARE NOT LIMITED TO: STOCKPILING SOILS AND OTHER MATERIAL, STORING EQUIPMENT OR OTHER MACHINERY, DRIVING VEHICLES, LEAKING OR SPILLING OF ANY "WASHOUT" OR OTHER TOXIC MATERIALS. 7. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTES AND INSPECTIONS WITH THE SOILS ENGINEER.

8. PRIOR TO PLACEMENT OF ANY STRUCTURE OR PAVEMENT, A TEST ROLL WILL BE REQUIRED ON THE PARKING LOT SUBGRADE. THE CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL DETERMINE WHICH SECTIONS ARE UNSTABLE. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER AND AS SPECIFIED.

9. THE SITE HAS NOT NECESSARILY BEEN DESIGNED TO BALANCE THE ON-SITE MATERIALS. AFTER THE SITE GRADING IS COMPLETE, IF EXCESS SOIL MATERIAL EXISTS, THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS SOIL MATERIAL OFF-SITE IN A MANNER ACCEPTABLE

10. THE EXISTING TOPSOIL ON THIS SITE VARIES IN DEPTH. IT IS THE CONTRACTOR'S RESPONSIBILITY THAT ALL SURFACE VEGETATION AND ANY TOPSOIL OR OTHER LOOSE, SOFT OR OTHERWISE UNSUITABLE MATERIAL BE REMOVED FROM THE STREET AND BUILDING PAD AREAS PRIOR TO PLACEMENT OF ANY EMBANKMENT IN ACCORDANCE WITH THE SOILS REPORT.

11. EMBANKMENT MATERIAL NOT PLACED IN THE PARKING LOT OR BUILDING PAD AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE QUALITY COMPACTION METHOD AS OUTLINED IN MN/DOT 2105.3F2 OR AS DIRECTED BY THE SOILS ENGINEER. 12. EXCAVATION FOR THE PURPOSE OF REMOVING UNSTABLE OR UNSUITABLE SOILS SHALL BE COMPLETED AS REQUIRED BY THE SOILS ENGINEER. EMBANKMENT MATERIAL PLACED IN THE PARKING LOT SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFIED DENSITY METHOD AS OUTLINED IN MN/DOT 2105.3F1. EMBANKMENT MATERIAL PLACED IN THE BUILDING PAD AREA SHALL BE COMPACTED IN

a. THE PARKING LOT SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.05 FOOT ABOVE, OR 0.10 FOOT BELOW. THE PRESCRIBED ELEVATION OF ANY POINT WHERE MEASUREMENT IS MADE. b. AREAS WHICH ARE TO RECEIVE TOPSOIL SHALL BE GRADED TO WITHIN 0.30 FOOT ABOVE OR BELOW THE REQUIRED ELEVATION,

14. ALL DISTURBED UNSURFACED AREAS ARE TO IMMEDIATELY RECEIVE FOUR INCHES OF TOPSOIL, SEED AND MULCH AND BE WATERED

15. SPOT ELEVATIONS SHOWN INDICATE FINISHED GRADE ELEVATION UNLESS OTHERWISE NOTED. 16. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE OR GUTTER LINE IF CURB. PLAN GRADE IS TO FINISHED GARAGE FLOOR

17. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE 18. THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM THE BUILDINGS FOR ALL NATURAL AND PAVED AREAS.

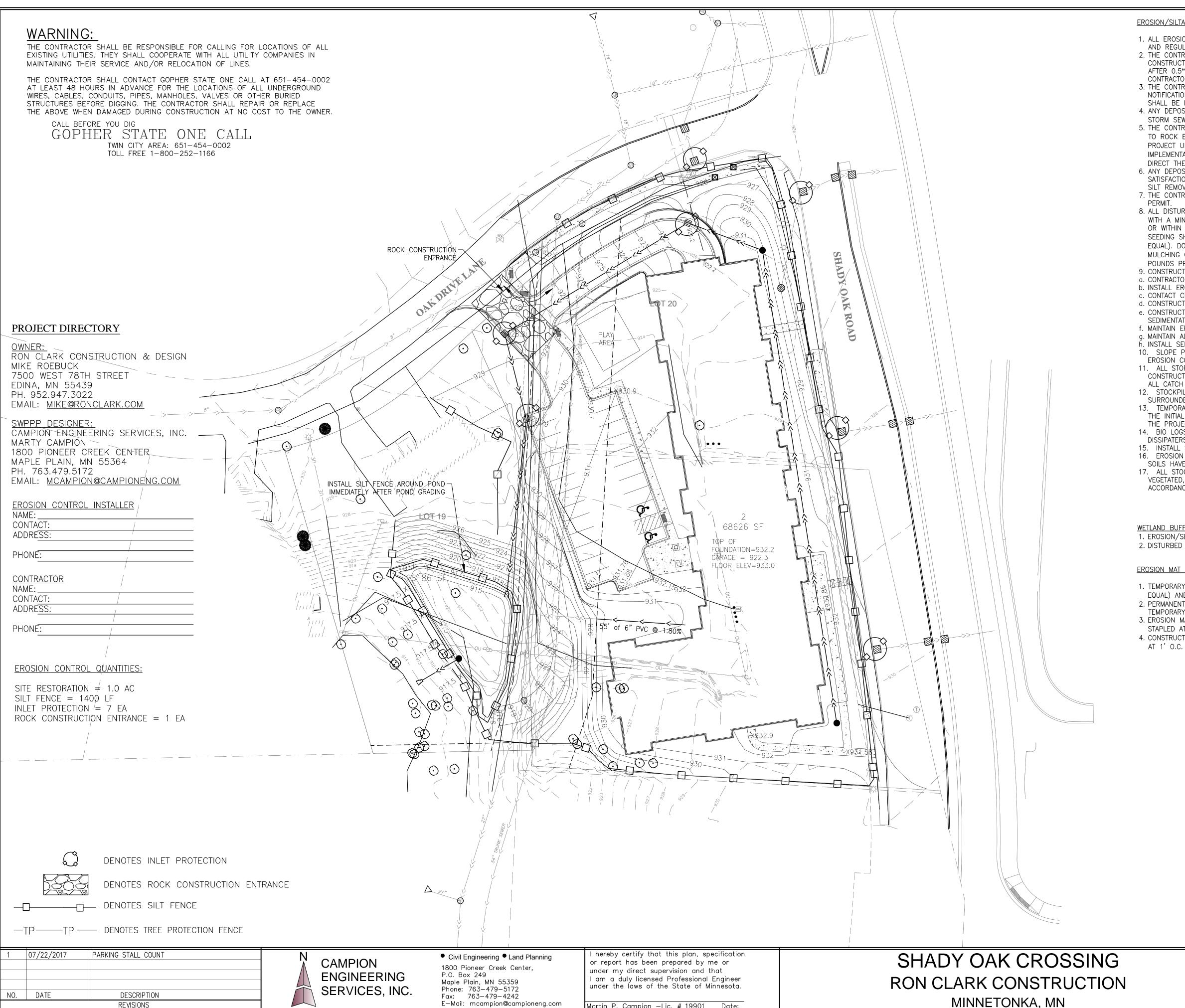
19. THE CONTRACTOR SHALL PROVIDE DEWATERING AS REQUIRED TO COMPLETE THE SITE GRADING CONSTRUCTION OR AS DIRECTED BY THE

1. THE CONTRACTOR SHALL AVOID COMPACTING THE POND BOTTOM. RUBBER TIRED EQUIPMENT SHALL BE PROHIBITED WHEN WORKING IN 2. THE BOTTOM AND SIDE SLOPES SHALL BE STABILIZED WITH THE SPECIFIED PLANT MATERIALS WITHIN 7 DAYS OF COMPLETING THE POND

3. POND SHALL BE GRADED 12" - 18" ABOVE FINAL GRADE UNTIL SITE GRADING IS SUBSTANTIALLY COMPLETE. 4. AS PART OF FINISH GRADING, NATIVE SOILS IN THE POND SHALL BE DE-COMPACTED TO A DEPTH OF 12" - 18".

	RETAINING WALLS 4' AND HIGHER SHALL BE SIGNED BY A STRUCTURAL ENGINEER	
 X 8	EXISTING MINOR CONTOUR O 30 GRAPHIC SCALE IN F PROPOSED CONTOURS 96.55 PROPOSED SPOT ELEVATION	60 EET
	PRELIMINARY GRADING PLAN	PROJECT NO: 17-011
	SHEET NO. 6 OF 11 SHEETS	DATE: 07/24/2017

TWIN CITY AREA: 651-454-0002 TOLL FREE 1-800-252-1166



Martin P. Campion -Lic. # 19901 Date:

MINNETONKA, MN

EROSION/SILTATION CONTROL

1. ALL EROSION CONTROL AND SILTATION CONTROL WILL COMPLY WITH MINNESOTA'S BEST MANAGEMENT PRACTICES MANUAL AND REGULATIONS OF THE CITY. 2. THE CONTRACTOR SHALL BE FAMILIAR WITH AND FOLLOW ALL REQUIREMENTS OF THE MPCA NPDES PHASE II PERMIT FOR CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO: WEEKLY EROSION CONTROL INSPECTIONS, INSPECTION AFTER 0.5" RAINFALL OR MORE AND DOCUMENTATION OF ALL CORRECTIVE MEASURES. BY BEGINNING CONSTRUCTION, THE CONTRACTOR ACKNOWLEDGES THE TERMS OF THIS PERMIT AND AGREES TO ABIDE BY THEM. 3. THE CONTRACTOR SHALL PERFORM ANY CORRECTIVE MEASURES ORDERED BY THE CITY OR THE MPCA WITHIN 24 HOURS OF NOTIFICATION. ALSO, ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY BY EITHER THE CITY OR THE MPCA SHALL BE INSTALLED WITHIN 24 HOURS OF NOTIFICATION. 4. ANY DEPOSITING OF SILT OR MUD ON NEW OR EXISTING PAVEMENT, IN TEMPORARY SEDIMENTATION BASINS, OR IN EXISTING STORM SEWERS OR SWALE'S SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED. 5. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION INCLUDING BUT NOT LIMITED TO ROCK ENTRANCES AND/OR SILT FENCES. CONTROL SHALL COMMENCE WITH GRADING AND CONTINUE THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR'S RESPONSIBILITY INCLUDES ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE OWNER MAY, AT HIS/HER OPTION DIRECT THE CONTRACTOR IN HIS/HER METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. 6. ANY DEPOSITING OF SILT IN SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE OWNER. ALL AT THE EXPENSE OF THE CONTRACTOR. THE SILT FENCES SHALL BE REMOVED AND THE SILT REMOVED FROM THE PONDING AREAS BY THE CONTRACTOR AFTER THE TURF IS ESTABLISHED. 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH AND MONITORING THE REQUIREMENT OF THE MPCA 8. ALL DISTURBED AREAS, EXCEPT ROADWAYS, BUILDING AREAS, PARKING AREAS, ISLANDS AND SIDEWALK, SHALL BE RESTORED WITH A MINIMUM 4 INCHES TOPSOIL, SEEDED AND MULCHED (TYPE I) WITHIN 72 HOURS OF COMPLETION OF SITE GRADING, OR WITHIN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY CEASED. SEEDING SHALL BE IN ACCORDANCE WITH MNDOT SPECIFICATION 2575, SEED MIX 150 @ 40 LBS/ACRE (OR APPROVED EQUAL). DORMANT SEEDING AREAS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH MNDOT SPECIFICATIONS, STRAW MULCHING QUANTITY SHALL BE TWO TONS PER ACRE. FERTILIZER (10-10-20) SHALL BE APPLIED AT A RATE OF 200 POUNDS PER ACRE (CAN BE OMITTED IN LANDSCAPED AREAS IF LANDSCAPED SEEDING IS DONE CONCURRENTLY). 9. CONSTRUCTION SHALL PROCEED IN THE FOLLOWING SEQUENCE: a. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY. b. INSTALL EROSION CONTROL MEASURES AND ROCK CONSTRUCTION ENTRANCE. c. CONTACT CITY FOR APPROVAL OF EROSION CONTROL INSTALLATION. d. CONSTRUCT TEMPORARY SEDIMENTATION PONDS AND INSTALL TEMPORARY OUTFALL WITH STANDPIPE.

e. CONSTRUCT TEMPORARY DRAINAGE DITCHES/SWALES/STORM SEWER TO DIVERT SURFACE RUNOFF TO TEMPORARY SEDIMENTATION PONDS.

f. MAINTAIN EROSION MEASURE, I.E. SILT FENCE, ROCK CONSTRUCTION ENTRANCE. q. MAINTAIN ALL TEMPORARY SEDIMENTATION PONDS. COMPLETE SITE GRADING TOLERANCING.

h. INSTALL SEED AND MULCH ON AREAS THAT ARE NOT TO BE HARD SURFACES.

10. SLOPE PROTECTION AND EROSION CONTROL SHALL BE DONE IN ACCORDANCE WITH SECTION 02370 SLOPE PROTECTION, EROSION CONTROL AND STORM WATER POLLUTION PREVENTION PLAN OF THE PROJECT MANUAL

11. ALL STORM SEWER INLETS AND FLARED END SECTIONS SHALL BE ADEQUATELY PROTECTED BEFORE AND AFTER PAVEMENT CONSTRUCTION UNTIL ALL DISTURBED AREAS ARE STABILIZED. CONTRACTOR SHALL PLACE MIRAFI FABRIC AND GRAVEL OVER ALL CATCH BASIN GRATE INLETS UNTIL PAVING SURFACES ARE PAVED AND THE LANDSCAPING IS COMPLETED. 12. STOCKPILE AREAS WHICH REMAIN ON THE SITE FOR MORE THAN SEVEN DAYS SHALL BE SEEDED, MULCHED, AND SURROUNDED BY SILT FENCE.

13. TEMPORARY AND PERMANENT SEDIMENTATION PONDS, AT LOCATION SELECTED BY OWNER, SHALL BE CONSTRUCTED WITH THE INITIAL GRADING. THE SEDIMENT MUST BE REMOVED FROM THESES PONDS, AS NECESSARY, PRIOR TO COMPLETION OF THE PROJECT.

14. BIO LOGS SHALL BE INSTALLED AT PIPE INLETS AND OUTLETS UNTIL RIPRAP IS INSTALLED. PERMANENT ENERGY DISSIPATERS SHALL BE INSTALLED WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER. 15. INSTALL SILT FENCE AROUND POND UPON COMPLETION OF GRADING.

16. EROSION AND SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE UNTIL THE OWNER HAS DETERMINED THAT THE SITE SOILS HAVE BEEN PERMANENTLY STABILIZED AND SHALL BE REMOVED WITHIN 30 DAYS THEREAFTER. 17. ALL STOCKPILES OF SOIL OR OTHER MATERIALS SUBJECT TO EROSION BY WIND OR WATER SHALL BE COVERED,

VEGETATED, ENCLOSED, FENCED ON THE DOWN GRADIENT SIDE OR OTHERWISE EFFECTIVELY PROTECTED FROM EROSION IN ACCORDANCE WITH THE AMOUNT OF TIME THE MATERIAL WILL BE ON SITE AND THE MANNER OF ITS PROPOSED USE.

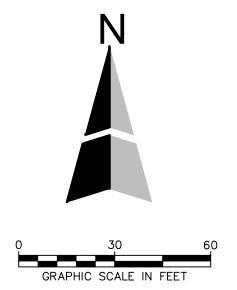
WETLAND BUFFER RE-VEGETATION

1. EROSION/SEDIMENT CONTROL PRACTICES SHALL BE USED DURING BUFFER VEGETATION ESTABLISHMENT. 2. DISTURBED BUFFER AREAS SHALL BE PLANTED WITH STATE SEED MIX 35-641 (BWSR U5) OR EQUIVALENT

EROSION MAT REQUIREMENTS

1. TEMPORARY EROSION MATS SHALL BE BIODEGRADABLE DOULBE-NET STRAW (NORTH AM\ERICAN GREEN 5150 OR APPROVED EQUAL) AND EROSION MATS SHALL HAVE A MINIMUM FUNCTIONAL LONGEVITY OF 10 MONTHS. 2. PERMANENT EROSION CONTROL MAT SHALL BE ENKAMAT 7010/7016 OR APPROVED EQUAL AND SHALL BE COVERED WITH TEMPORARY EROSION CONTROL MAT AFTER TOPSOIL AND SEEDING. 3. EROSION MATS PLACED ON SLOPES 3:1 OR GREATER SHALL BE ROLLED DOWN SLOPE AND WITH 4" MINIMUM LAP AND STAPLED AT 1' O.C.

4. CONSTRUCT A 6"X12" ANCHOR TRENCH 3' BEYOND CREST AND TOE OF SLOPE. STAPLE EROSION MAT IN TRENCH



ROJECT NO: PRELIMINARY STORM WATER 17-011 POLLUTION PREVENTION PLAN OF 11 SHEET 07/24/2017

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG GOPHER STATE ONE CALL TWIN CITY AREA: 651-454-0002 TOLL FREE 1-800-252-1166

07/22/2017	PARKING STALL COUNT	
DATE	DESCRIPTION	
	REVISIONS	



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Civil Engineering • Land Planning 1800 Pioneer Creek Center, P.O. Box 249 Maple Plain, MN 55359 Phone: 763-479-5172 Fax: 763-479-4242 E-Mail: mcampion@campioneng.com

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Martin P. Campion —Lic. # 19901 Date:

MINNETONKA, MN

er	Size	Common Name	Scientific Name	Notes
	15	Siberian Elm	Ulmus pumila	
	11	White Mulberry	Morus alba	
	10	White Mulberry	Morus alba	
	8	White Mulberry	Morus alba	
	19,11	Siberian Elm	Ulmus pumila	
	22,12	Siberian Elm	Ulmus pumila	
	16	Siberian Elm	Ulmus pumila	
	11,11,10,9,8	Siberian Elm	Ulmus pumila	
	12,11,10	Siberian Elm	Ulmus pumila	
	24	Siberian Elm	Ulmus pumila	major internal decay along trunk
	10	Green Ash	Fraxinus pennsylvanica	
	12	Green Ash	Fraxinus pennsylvanica	
	15	Cottonwood	Populus deltoides	
	14	Cottonwood	Populus deltoides	
	25	Cottonwood	Populus deltoides	
	20	Silver Maple	Acer saccharinum	
	18	Cottonwood	Populus deltoides	
	11,11	Green Ash	Fraxinus pennsylvanica	
	11	Green Ash	Fraxinus pennsylvanica	
	16	Green Ash	Fraxinus pennsylvanica	
	8	Box Elder	Acer negundo	
	17	Box Elder	Acer negundo	
	9	Box Elder	Acer negundo	
	8	American Elm	Ulmus americana	
	12	Siberian Elm	Ulmus pumila	
	22,22	Northern Pin Oak	Quercus ellipsoidalis	
	16	Green Ash	Fraxinus pennsylvanica	
	14	Siberian Elm	Ulmus pumila	
	40	Cottonwood	Populus deltoides	
	8	Green Ash	Fraxinus pennsylvanica	
	17,16,12	White Mulberry	Morus alba	internal decay in 16" stem along trunk
	25	Siberian Elm	Ulmus pumila	
	8	Green Ash	Fraxinus pennsylvanica	
	9,8	Green Ash	Fraxinus pennsylvanica	
	18,11	Silver Maple	Acer saccharinum	
	13	White Mulberry	Morus alba	
	25	Siberian Elm	Ulmus pumila	
	14	Colorado Blue Spruce	Picea pungens	25' in height
	42	Silver Maple	Acer saccharinum	
	10	Russian Olive	Elaeagnus angustifolia	
	11,10	Russian Olive	Elaeagnus angustifolia	

TREE INVENTORY COMPLETED BY KEN ARNDT, SR. FOREST ECOLOGIST, MIDWEST NATURAL

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GRAPHIC SCALE IN FE	EET
PRELIMINARY TREE INVENTORY	project no:
PLAN	17-011
SHEET NO. 8 OF 11 SHEETS	DATE: 07/24/2017

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG GOPHER STATE ONE CALL TWIN CITY AREA: 651-454-0002 TOLL FREE 1-800-252-1166

TREE PRESERVATION NOTES

- 1. BEFORE LAND CLEARING BEGINS, CONTRACTOR SHOULD MEET WITH THE CONSULTANT ON SITE TO REVIEW ALL WORK PROCEDURES, ACCESS ROUTES, STORAGE AREAS AND TREE PROTECTION MEASURES. 2. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES AND IS TO BE PLACED OUTSIDE OF THE DRIP LINE OF ALL SIGNIFICANT TREES TO BE SAVED. FENCE TO REMAIN UNTIL ALL SITE WORK IS COMPLETED. FENCE SHOULD NOT BE MOVED OR RELOCATED WITHOUT VERBAL OR WRITTEN COMMUNICATION WITH THE CONSULTANT. HEAVY DUTY SILT FENCE SHALL BE USED FOR TREE PROTECTION FENCE.
- 3.NQ FILL SHOULD BE PLACED AGAINST THE TRUNK, ON THE ROOT CROWN, OR WITHIN THE DRIP LINE AREA OF ANY TREES THAT ARE TO BE SAVED. 4. CARE MUST BE TAKEN TO PREVENT CHANGE IN THE SOIL CHEMISTRY DUE TO CONCRETE WASHOUT AND LEAKAGE OR SPILLAGE OF TOXIC MATERIALS SUCH AS PAINTS OR FUELS.
- 5.ALL CONSTRUCTION EQUIPMENT, VEHICLE TRAFFIC AND STORAGE AREAS MUST BE LOCATED OUTSIDE OF ANY TREE PROTECTION AREA. 6.PRUNING OF OAK TREES MUST NOT TAKE PLACE FROM APRIL 15 TO JULY 1.
- 7.IF WOUNDING OF OAK TREES OCCUR, A NON-TOXIC WOUND DRESSING MUST BE APPLIED IMMEDIATELY. (EXCAVATORS MUST HAVE A NON-TOXIC TREE WOUND DRESSING WITH THEM ON DEVELOPMENT SITES.)
- 8.HEAVY-DUTY SHIT FENCE SHALL BE STAKED AT THE DRIP LINE OF EXISTING TREES TO BE SAVED. 9.NO BURNING PERMITS WILL BE SUED FOR TREES TO BE REMOVED.
- TREES & SHRUBS MUST EITHER BE REMOVED FROM SITE OR CHIPPED. 10. ANY TREES DAMAGED OR REMOVED NOT LISTED ON THIS TREE PRESERVATION PLAN MUST BY REPLACED AT A RATE OF 2:1 DIAMETER INCHES.

07/22/2017	PARKING STALL COUNT	
DATE	DESCRIPTION	
	REVISIONS	



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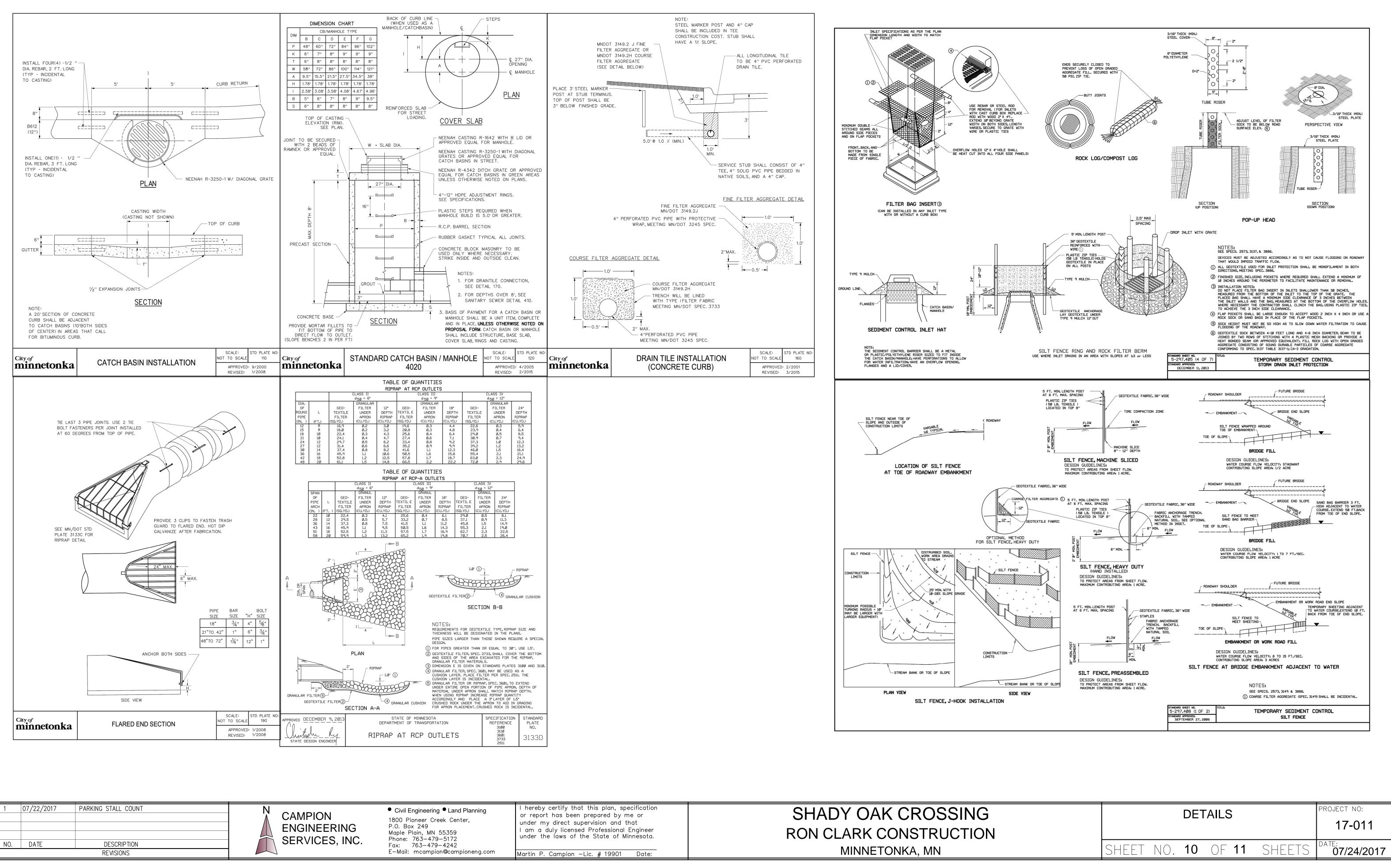
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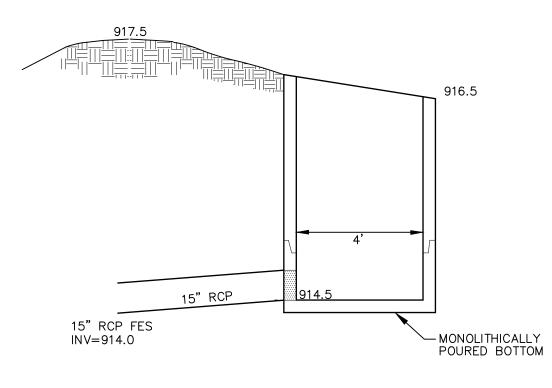
TREE PROTECTION FENCE -



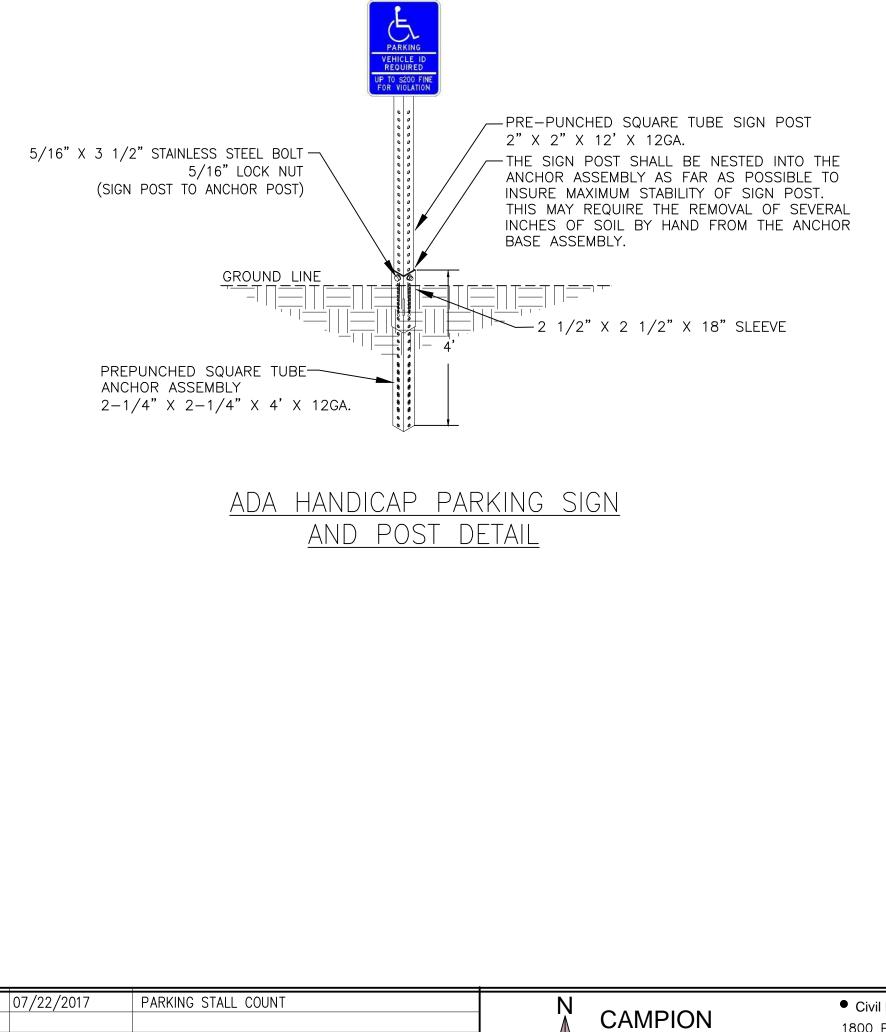


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	Tag			High	Save/			
	Number	Size	Common Name	Priority	Remove	Notes		
	4797	15	Siberian Elm	No	Remove (1)		
	4798	11	White Mulberry	No	Remove (1)		
	4799	10	White Mulberry	No	Remove (1)		
	4800	8	White Mulberry	No	Remove (1)		
	4801	19,11	Siberian Elm	No	Remove (1)		
	4802	22,12	Siberian Elm	No	Remove (1)		
	4803	16	Siberian Elm	No	Remove (-		
		11,11,10,9,8		No	Remove	-,		
	4805	12,11,10	Siberian Elm	No	Remove			
	4806	24	Siberian Elm	No	Save	maior internal o	decay along trunk	
	4807	10	Green Ash	No	Save	major mernare		
	4807	10	Green Ash	No	Save			
			Cottonwood					
	4809	15		Yes	Save			
	4810	14	Cottonwood	No	Save			
	4811	25	Cottonwood	Yes	Save			
	4812	20	Silver Maple	No	Save			
	4813	18	Cottonwood	Yes	Save			
	4814	11,11	Green Ash	No	Save			
	4815	11	Green Ash	No	Save			
	4816	16	Green Ash	No	Save			
	4817	8	Box Elder	No	Save			
	4818	17	Box Elder	No	Save			
	4819	9	Box Elder	No	Save			
	4820	8	American Elm	No	Remove (2)		
	4821	12	Siberian Elm	No	Remove (-		
	4822	22,22	Northern Pin Oak	Yes	Remove (-		
	4823	16	Green Ash	No	Save			
	4823	10	Siberian Elm	No	Save			
	4824	14 40	Cottonwood	Yes	Save			
	4825	40 8	Green Ash	No	Save			
	4826 4827	8 17,16,12	Green Asn White Mulberry	NO	Save Save	internal decay i	n 16" stom	
			-				II 10 Stelli	
	4828	25	Siberian Elm	No	Remove (2)		
	4829	8	Green Ash	No	Save			
	4830	9,8	Green Ash	No	Save	2)		
	4831	18,11	Silver Maple	No	Remove (-		
	4832	13	White Mulberry	No	Remove (2)		
	4833	25	Siberian Elm	Νο	Save			
	4834	14	Colorado Blue Spruce	No	Save	25' in height		
	4835	42	Silver Maple	No	Save			
	4836	10	Russian Olive	No	Save			
	4837	11,10	Russian Olive	No	Remove (1)		
	Total trees	S	55					
	Sgnificant	trees	53					
	High prior	ity trees	6					
	1 ¹							
	Significant							
	removed							
	Basic Tree		_					
	and Pond		8					
	High Prior	ity tiees	2/44 in choc)					
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	Remove (2		Indicates trees remo				ea	
	Remove (2	2)	Indicates trees remo	ved withi	n the pond	ing area		
	X DENO	TES TREE TO	BE REMOVED			NI		
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Civil Engineering
Land Planning 1800 Pioneer Creek Center, P.O. Box 249 Maple Plain, MN 55359 Phone: 763-479-5172 Fax: 763-479-4242 E-Mail: mcampion@campioneng.com

ENGINEERING

SERVICES, INC.

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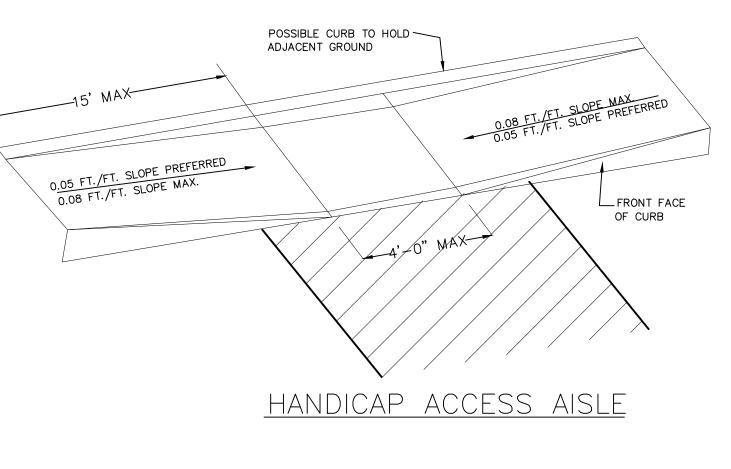
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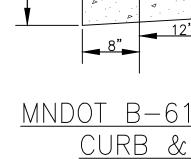
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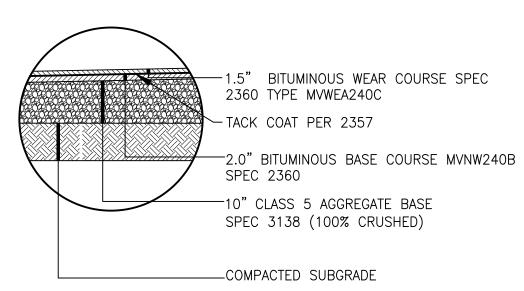
I hereby certify that this plan, specification or report has been prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

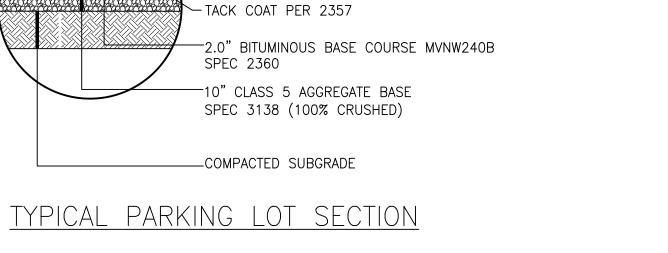
Martin P. Campion —Lic. # 19901 Date:

SHADY OAK CROSSING RON CLARK CONSTRUCTION MINNETONKA, MN









6" VARIABLE DISTANCE TO CENTER LINE

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25% SLOPE					
A A A					
2" B612					
<u>12 COI</u> : GUTTI	<u>NCRET</u> ER	Ē			

DETAILS			PROJECT NO: 17-011	
SHEET	NO. 11	OF 11	SHEETS	DATE: 07/24/2017