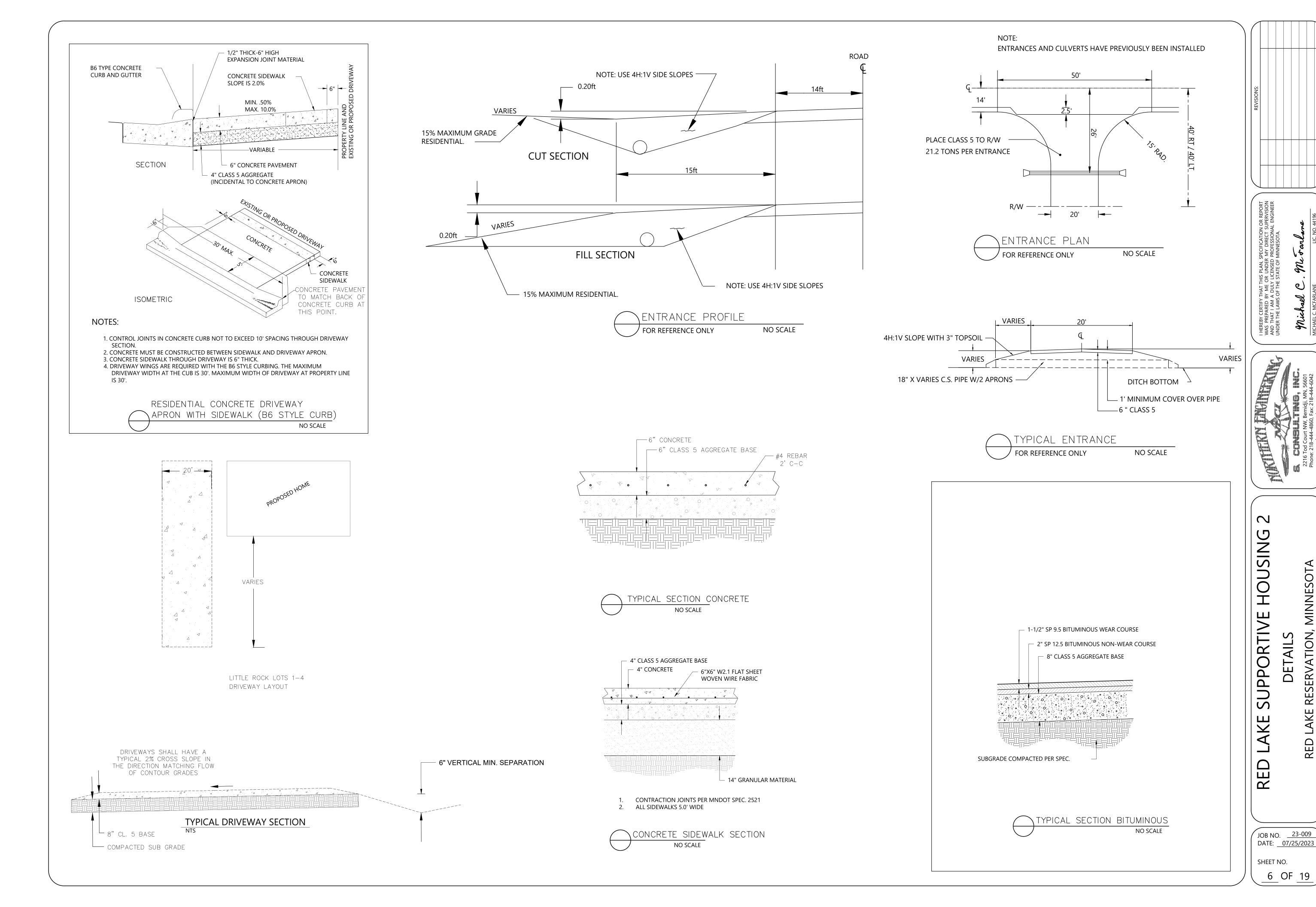




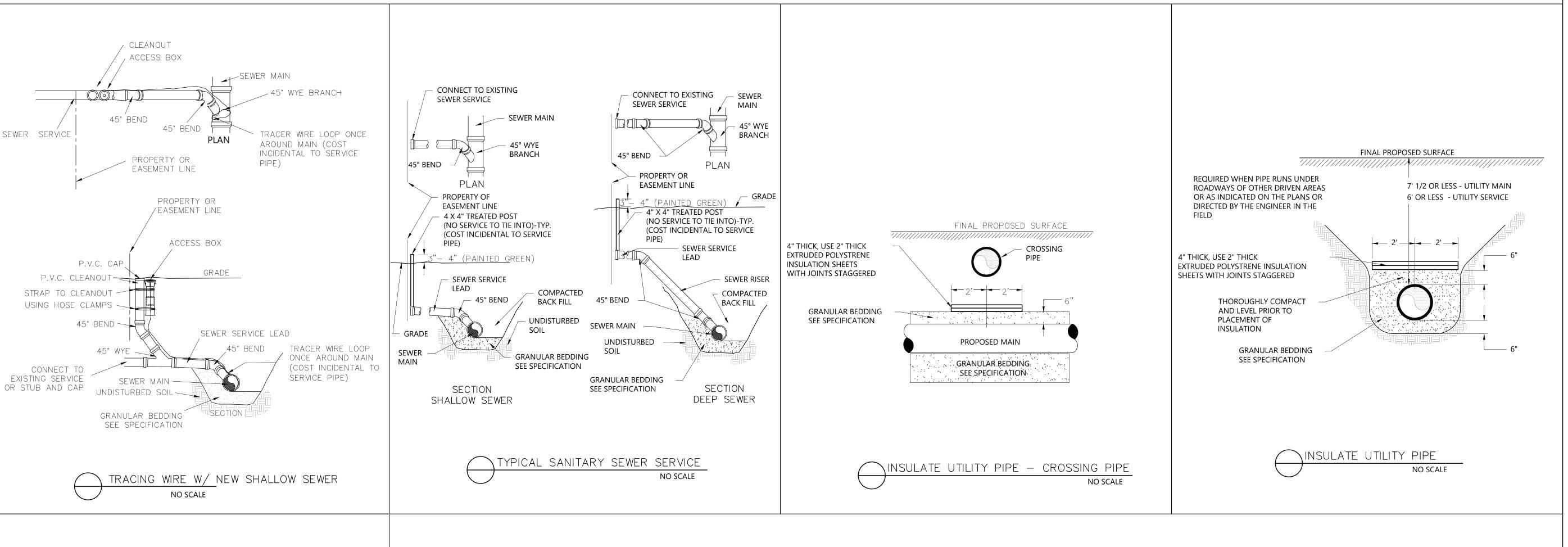


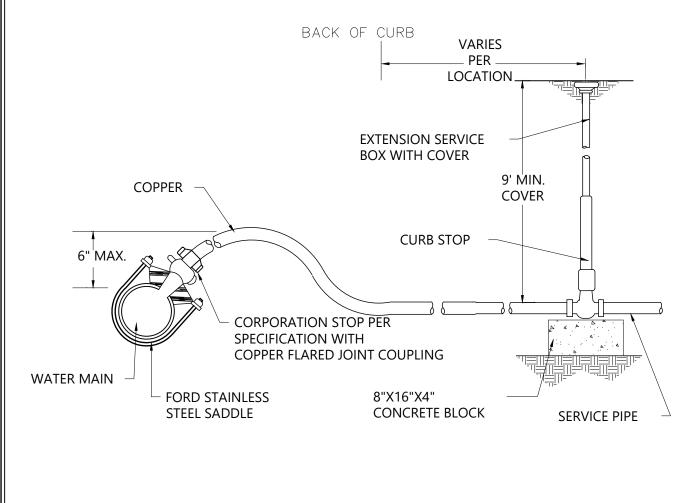


REDBY LOTS 1-4 & 7 NOT TO SCALE RESV HWY 60 LOT 2 REDBY TRAILER COURTS RD HOUSING RED LAKE RESERVATION, MINNESOTA - REDBY LAKE SUPPORTIVE **OVERVIEW** RED JOB NO. <u>23-009</u> DATE: <u>07/25/2023</u> SHEET NO. _5_OF_19_



RESERVATION,

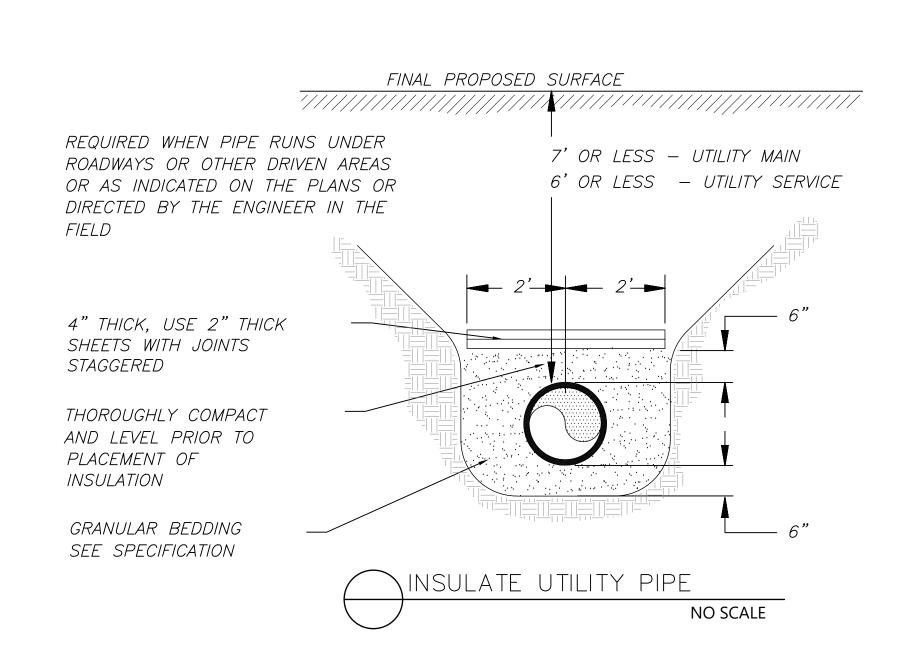




NOTES:

 SERVICE TAP TO BE MADE SLIGHTLY ABOVE SPRING LINE SO THAT COPPER LOOP SHALL NOT EXTEND ABOVE MAIN. MAINTAIN 9 FT MINIMUM COVER FOR ALL SERVICE LINES.
 ALL SERVICES SHALL BE RUN IN A STRAIGHT LINE FROM THE MAIN TO THE CURB STOP, PERPENDICULAR TO THE MAIN, WITHOUT SPLICES IN THE SERVICE LINE.

TYPICAL WATER SERVICE INSTALLATION NO SCALE



General Notes:

1. Contractor shall be responsible for performing all their own quantities/takeoffs. No additional compensation will be made for variations from quantities shown on plans. Contractors shall make Engineer aware of any variations they deem significant in case clarification is needed during the bidding process.

Site Plan:

- 1. Bituminous and/or Concrete Sidewalks shall be construction in accordance with MNDOT Specification "2521 WALKS" in the Standard Specifications for Construction, 2016 edition. Mix design for concrete walks shall be 3F52; Mix design for bituminous walks, if any, shall be SPWEB230B unless otherwise approved by Engineer.
- 2. All areas not otherwise surfaced shall be seeded, hydro-mulched, and fertilized as follows and at application rates in accordance with MNDOT Specification "2575 ESTABLISHING TURF AND CONTROLLING EROSION" and "2574 SOIL PREPARATION" in the Standard Specifications for Construction, 2016 edition:

a. Seed Mix 25-131b. Fertilizer, Type 1 Commercial

S PLAN, SPECIFICATION OR REPORT
UNDER MY DIRECT SUPERVISION
CENSED PROFESSIONAL ENGINEER
FATE OF MINNESOTA.

ME Faulare

WAS PREPARED BY ME OR UNDER MY DIRECT SUR AND THAT I AM A DULY LICENSED PROFESSIONAL IUNDER THE LAWS OF THE STATE OF MINNESOTA.

Michael C. Metallar

ECONSULTING, INC.
2216 Tod Court NW, Bemidji, MN, 56601
Phone: 218-444-4860, Fax: 218-444-6042

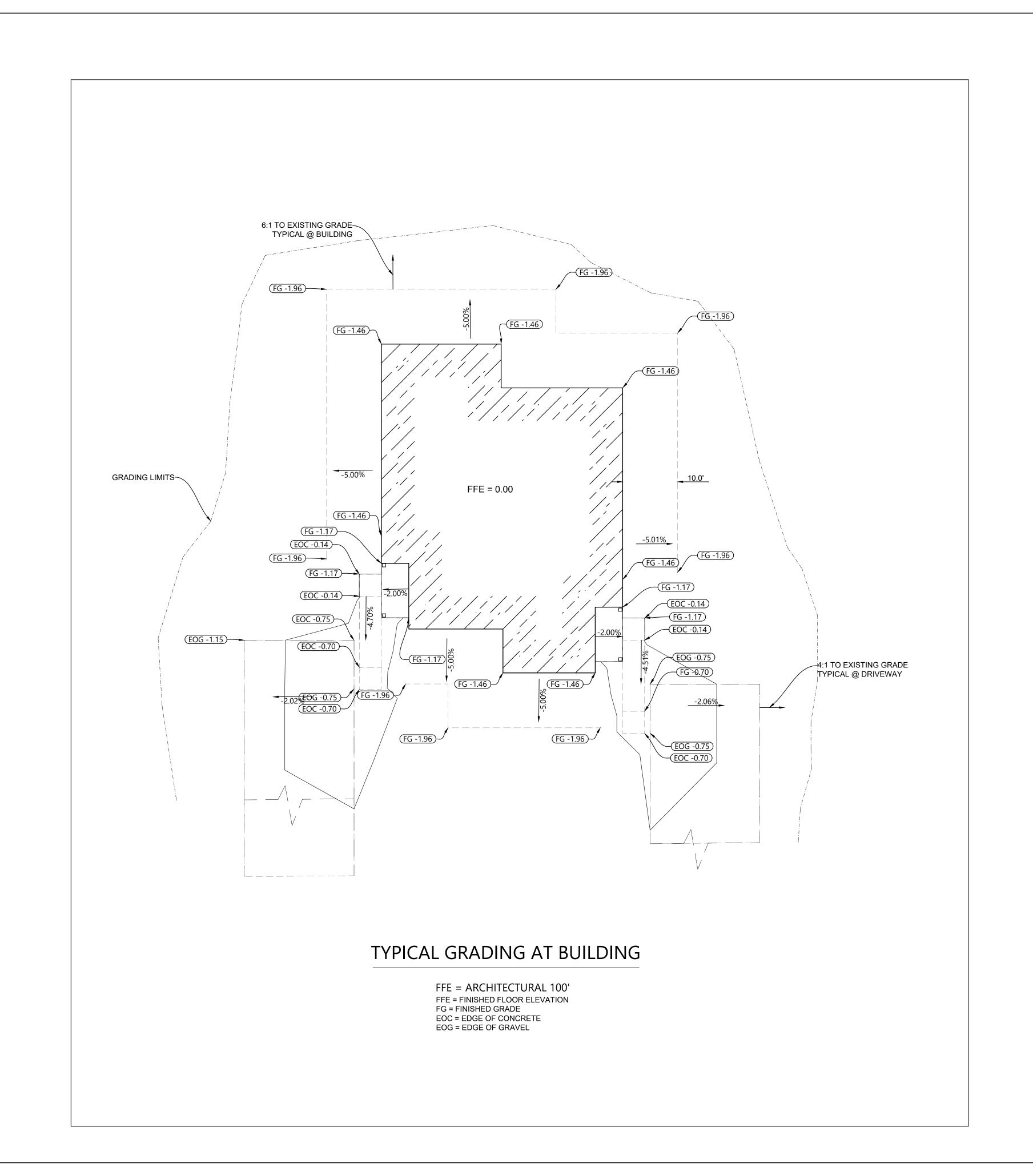
RED LAKE SUPPORTIVE HOUSING 2 DETAILS

RESERVATION,

JOB NO. <u>23-009</u> DATE: 07/25/2023

SHEET NO.

7 OF <u>19</u>





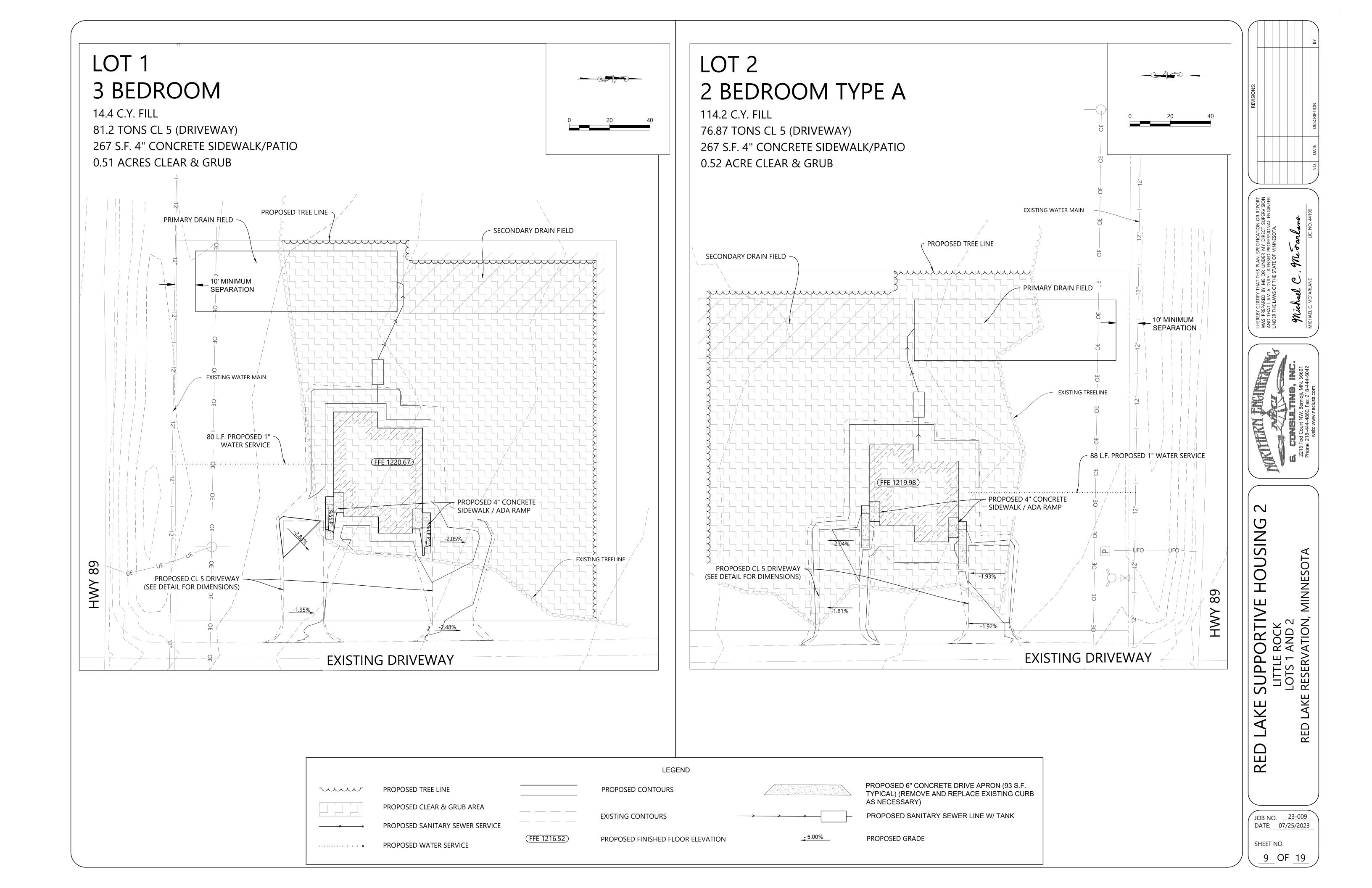
HOUSING

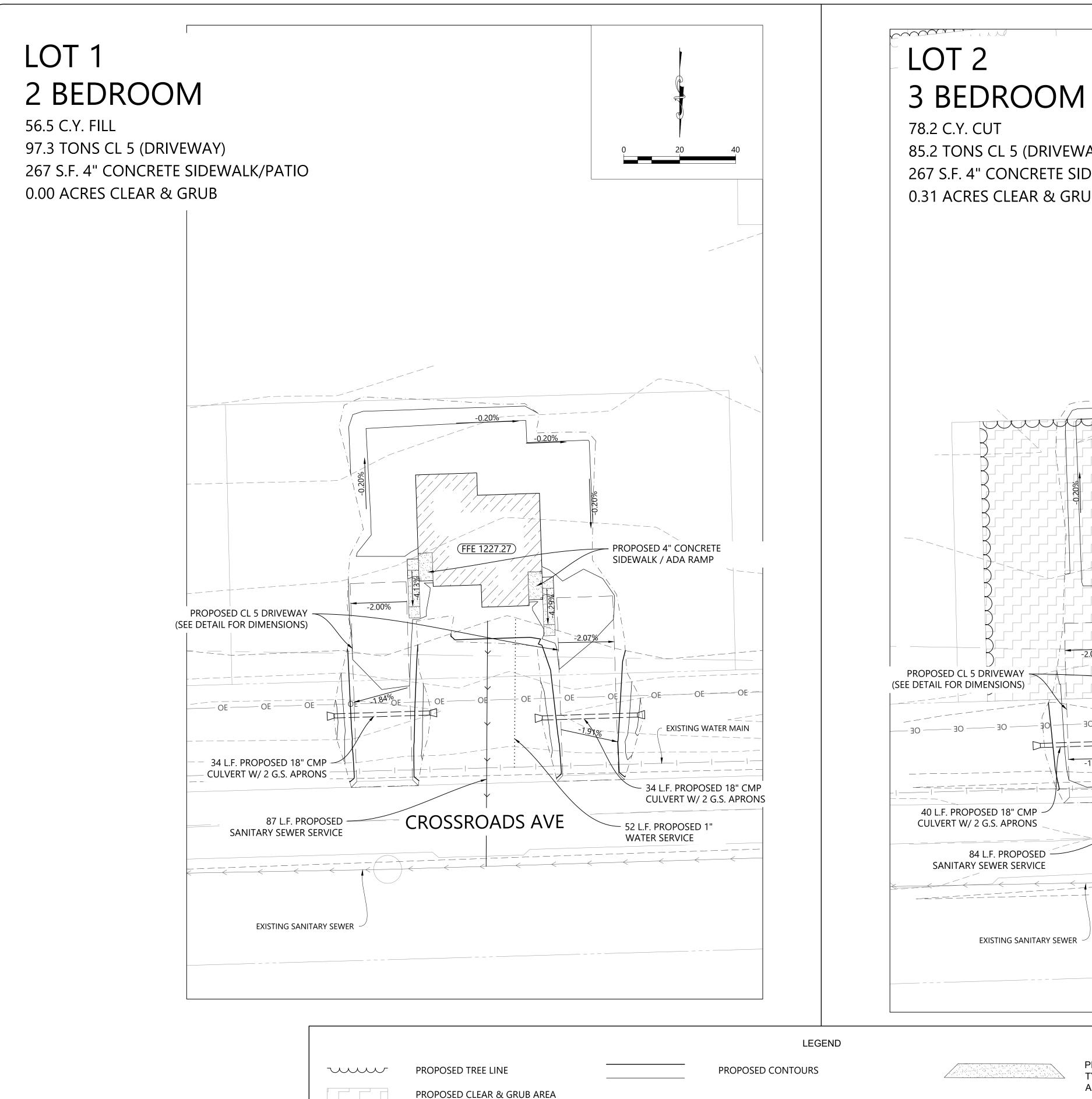
LAKE RESERVATION, MINNESOTA SUPPORTIVE RED

JOB NO. <u>23-009</u> DATE: <u>07/25/2023</u>

SHEET NO.

_8_OF_19_





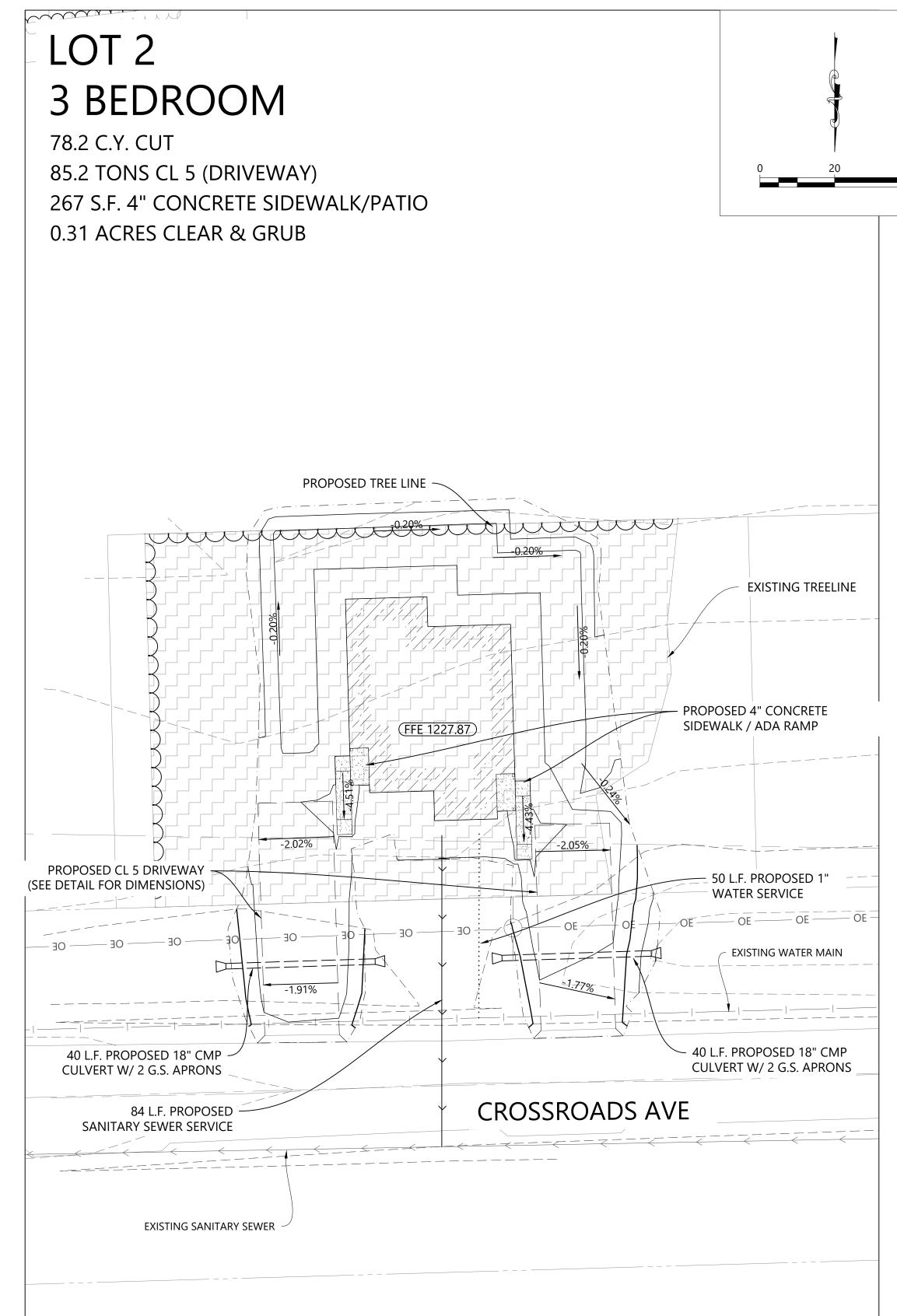
PROPOSED SANITARY SEWER SERVICE

PROPOSED WATER SERVICE

EXISTING CONTOURS

PROPOSED FINISHED FLOOR ELEVATION

(FFE 1216.52)



PROPOSED 6" CONCRETE DRIVE APRON (93 S.F.
TYPICAL) (REMOVE AND REPLACE EXISTING CURB
AS NECESSARY)

PROPOSED SANITARY SEWER LINE W/ TANK

PROPOSED GRADE

REVISIONS:

REPARED BY ME OR UNDER MY DIRECT SUPERVISI
HAT I AM A DULY LICENSED PROFESSIONAL ENGIN
THE LAWS OF THE STATE OF MINNESOTA.

LEARL C. ME FORLAR

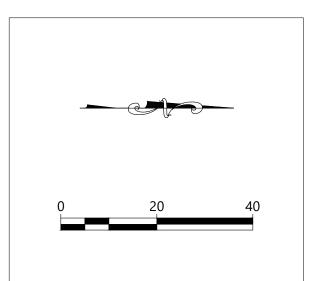
E CONSULTING, INC.
2216 Tod Court NW, Bemidji, MN, 56601
Phone: 218-444-4860, Fax: 218-444-6042

RED LAKE SUPPORTIVE HOUSING
RED LAKE
LOTS 1 AND 2

JOB NO. <u>23-009</u> DATE: <u>07/25/2023</u>

LOT 3 3 BEDROOM TYPE A

134.6 C.Y. CUT 99.9 TONS CL 5 (DRIVEWAY) 267 S.F. 4" CONCRETE SIDEWALK/PATIO 0.29 ACRES CLEAR & GRUB



LOT 4 1 BEDROOM

LEGEND

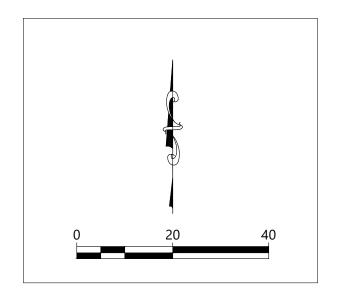
PROPOSED FINISHED FLOOR ELEVATION

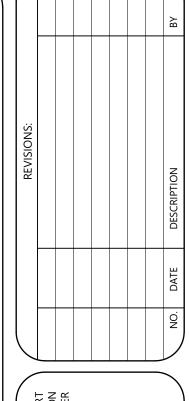
PROPOSED CONTOURS

EXISTING CONTOURS

(FFE 1216.52)

42.2 C.Y. FILL 89.0 TONS CL 5 (DRIVEWAY) 267 S.F. 4" CONCRETE SIDEWALK/PATIO 0.08 ACRES CLEAR & GRUB





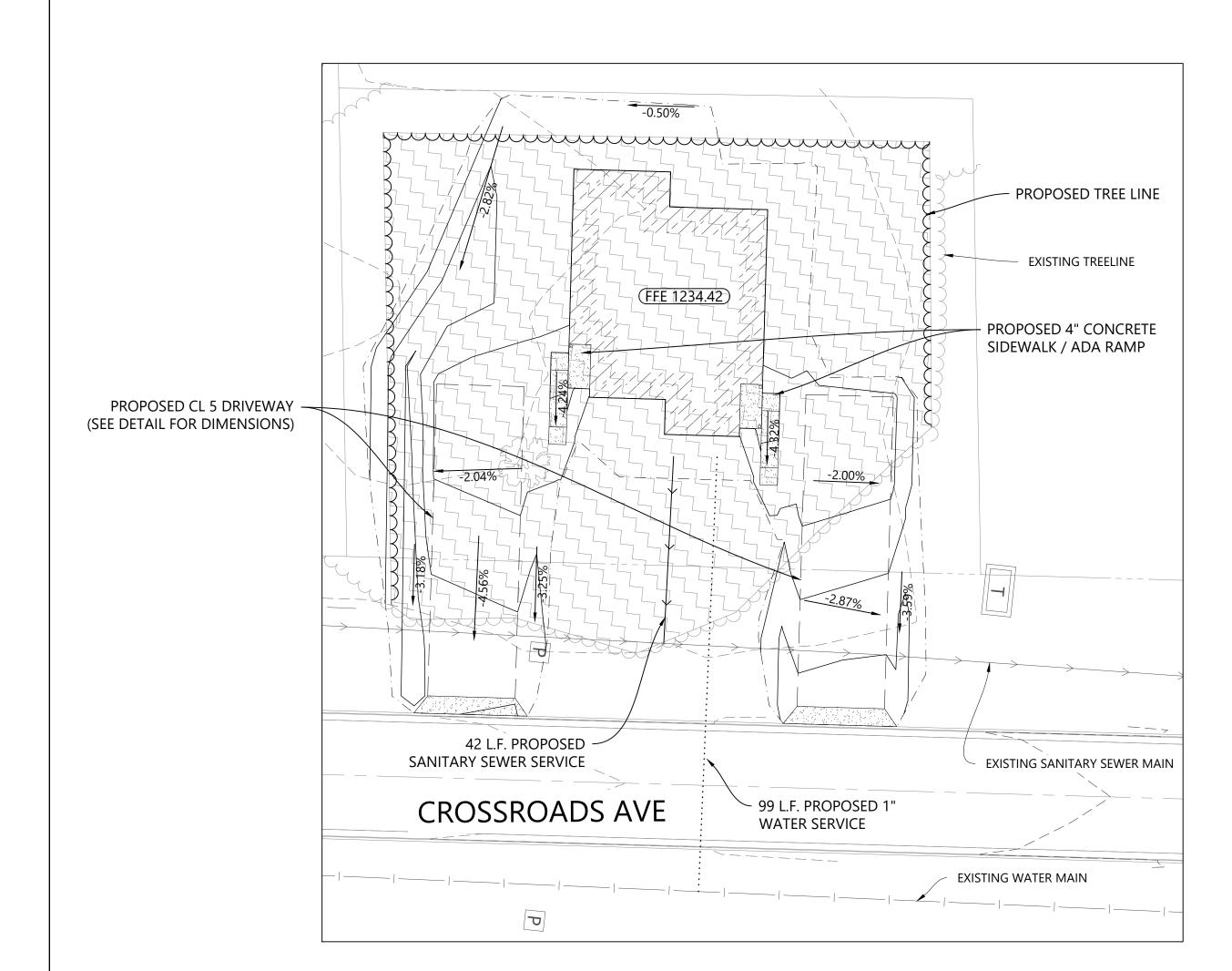


HOUSING SUPPORTIVE

RED

/ JOB NO. <u>23-009</u> DATE: <u>07/25/2023</u>

SHEET NO. <u>11</u> OF <u>19</u>

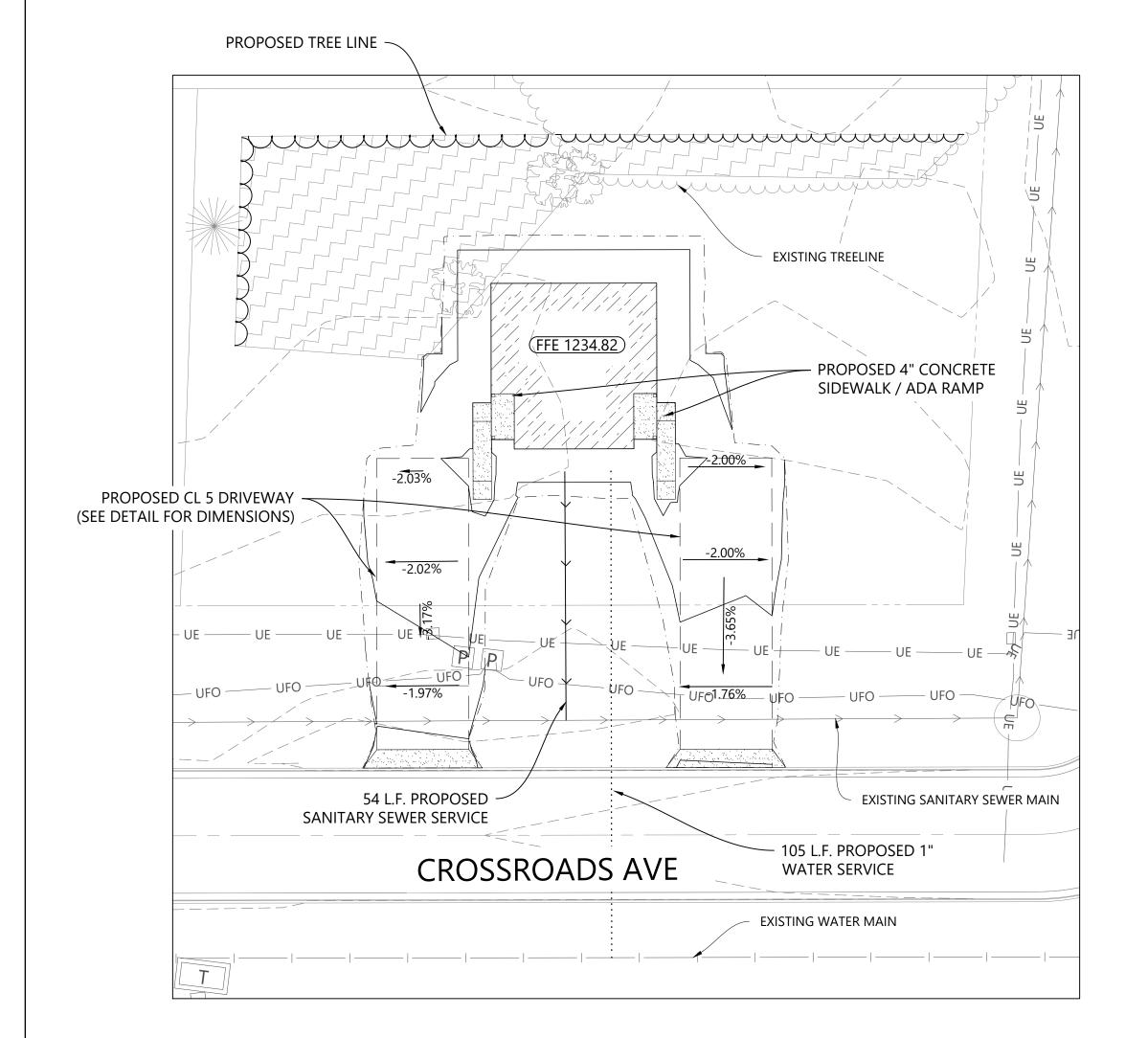


PROPOSED TREE LINE

PROPOSED CLEAR & GRUB AREA

PROPOSED WATER SERVICE

PROPOSED SANITARY SEWER SERVICE



PROPOSED 6" CONCRETE DRIVE APRON (93 S.F.

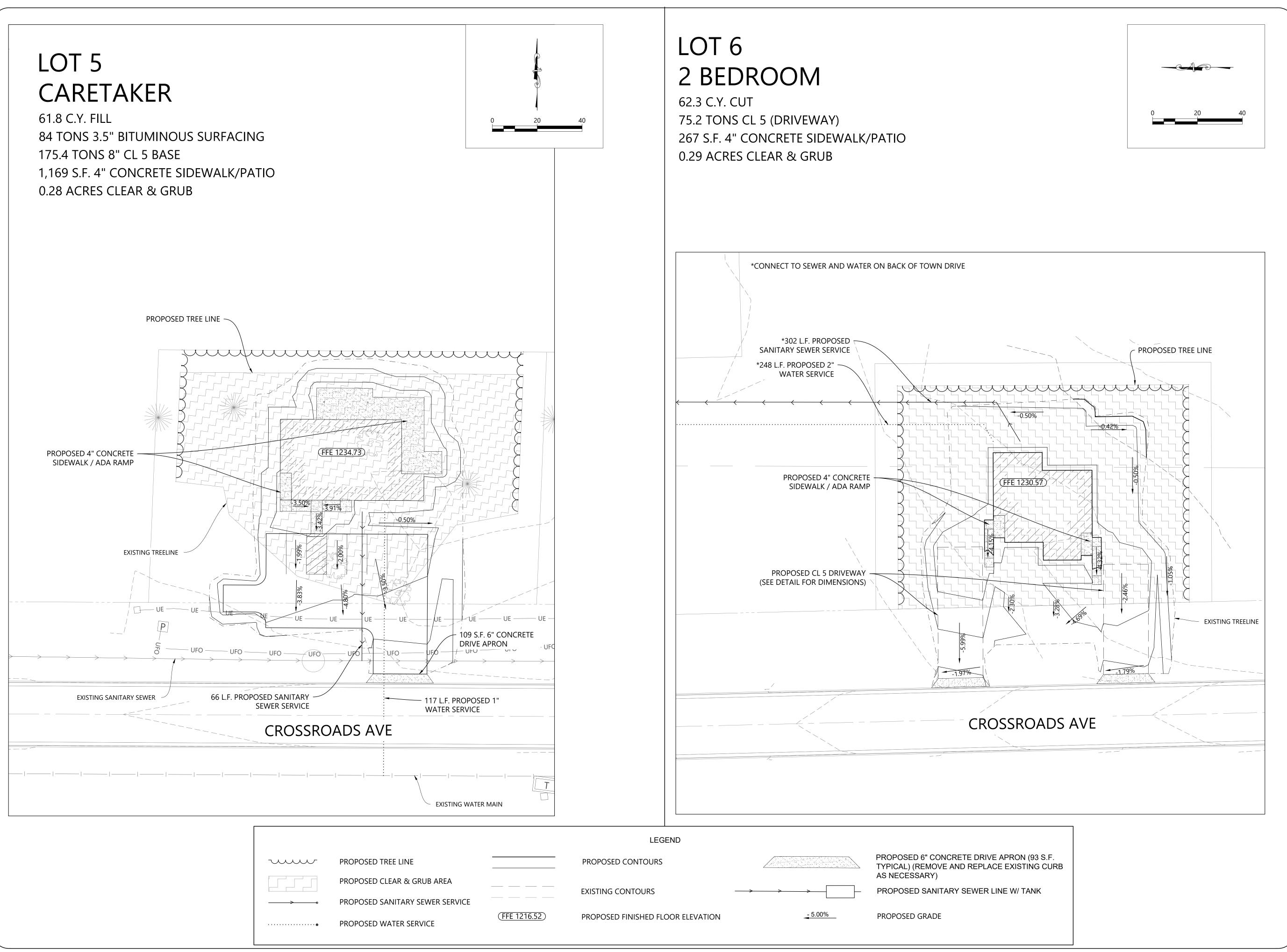
PROPOSED SANITARY SEWER LINE W/ TANK

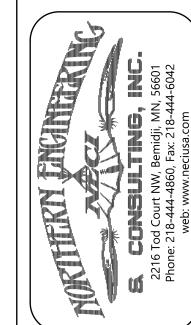
AS NECESSARY)

PROPOSED GRADE

- 5.00%

TYPICAL) (REMOVE AND REPLACE EXISTING CURB





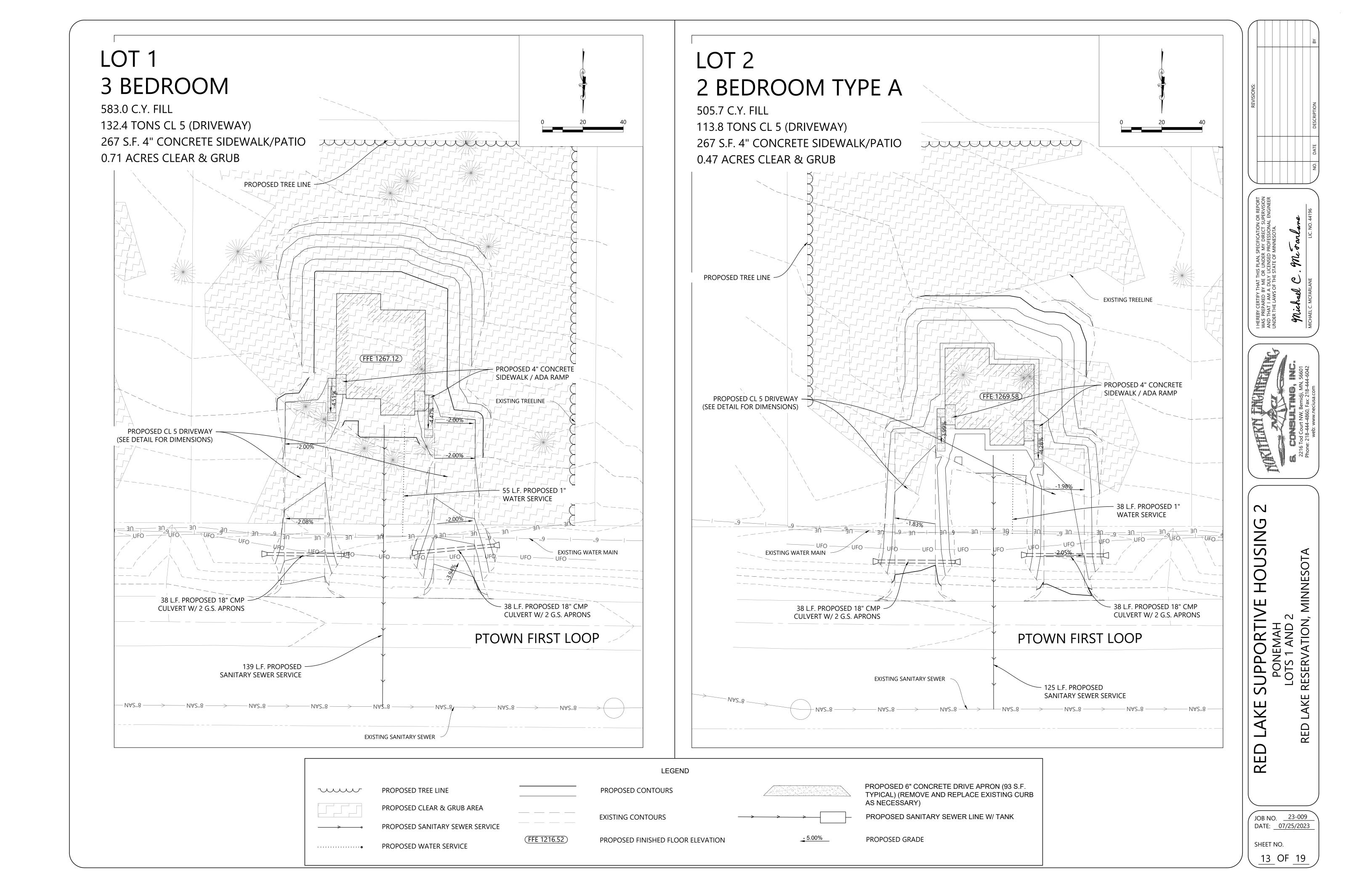
2 HOUSING SUPPORTIVE RED LAKE LOTS 5 AND 6 RESERVATION, I

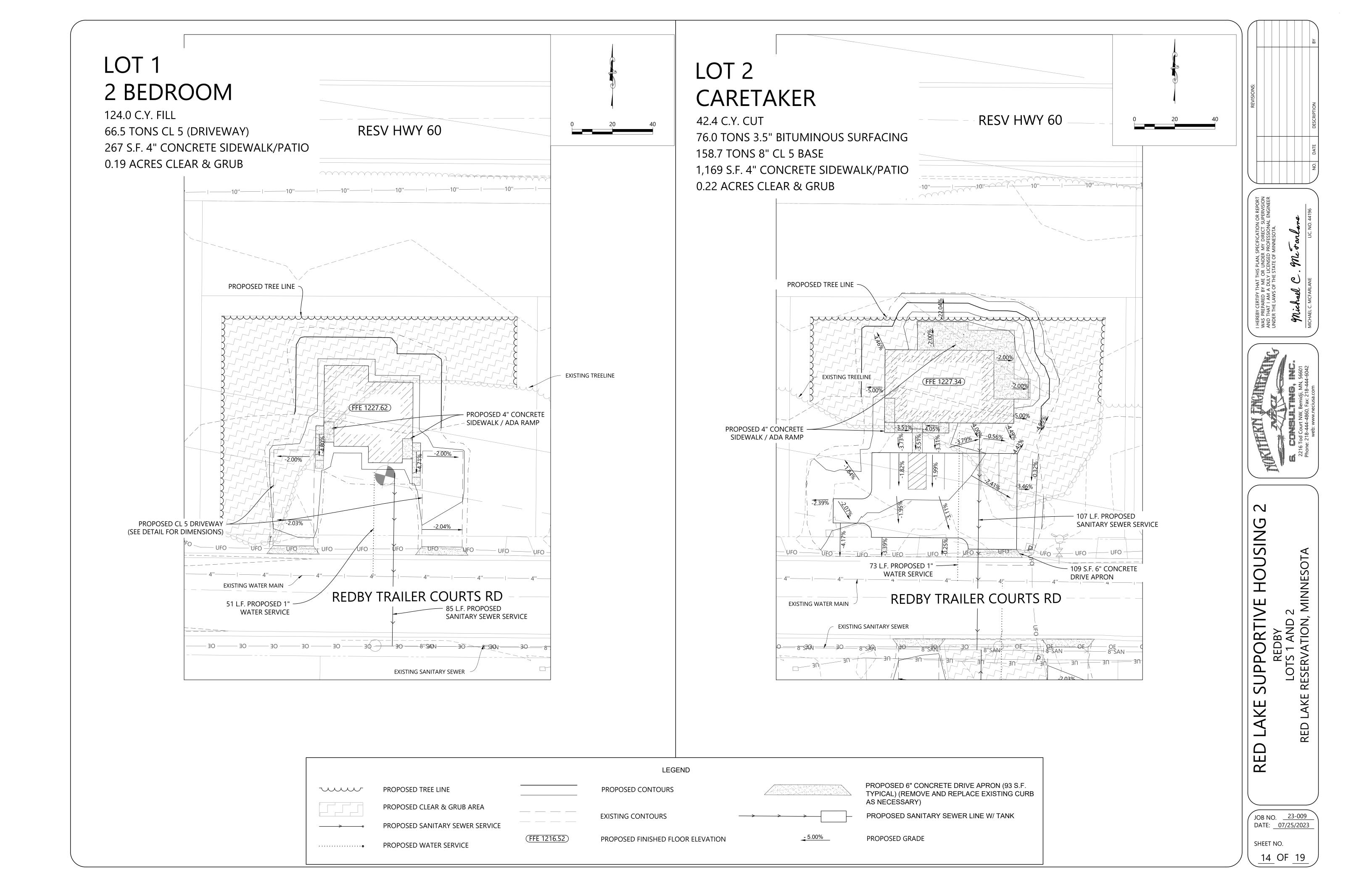
MINNESOTA

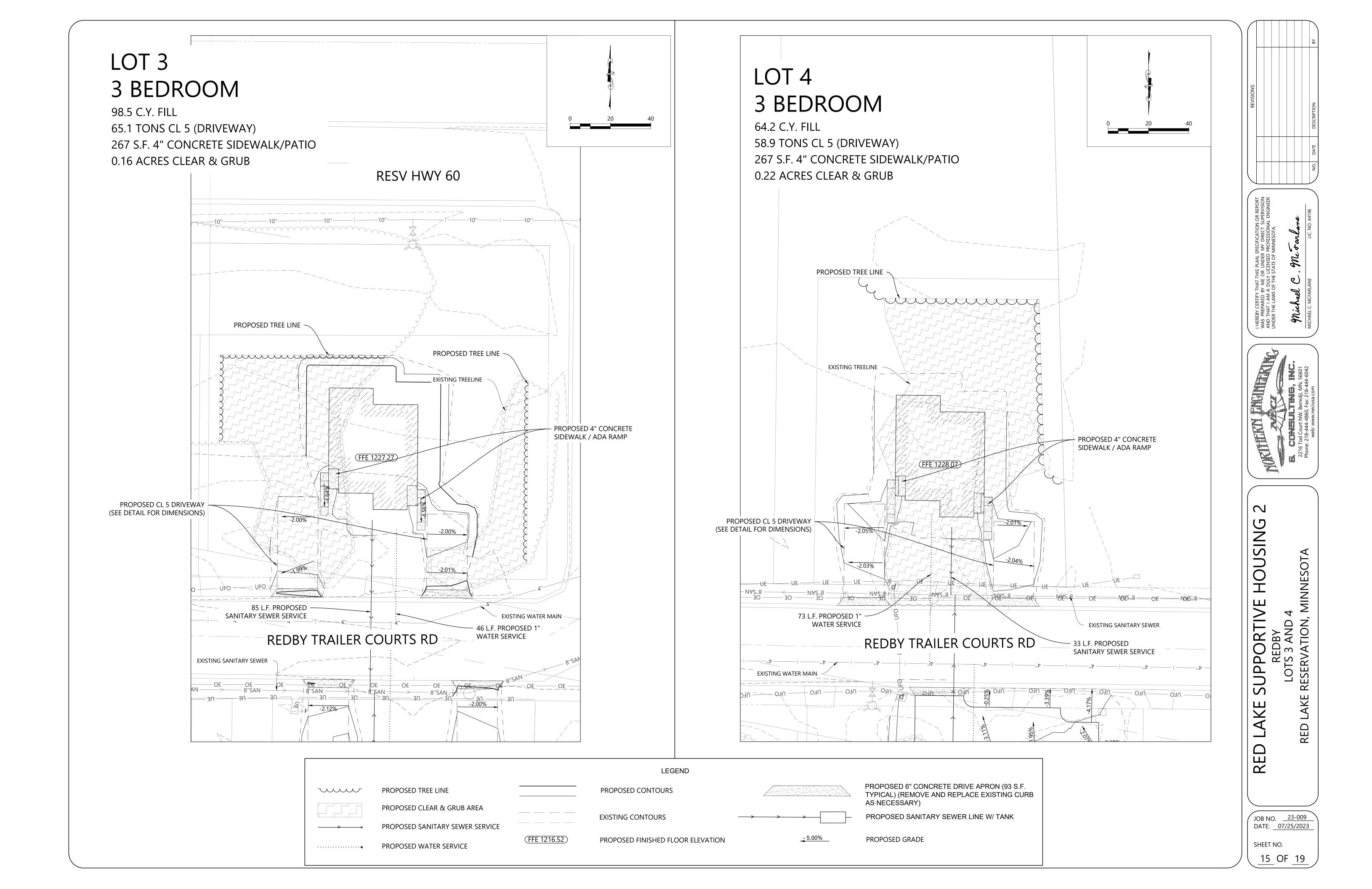
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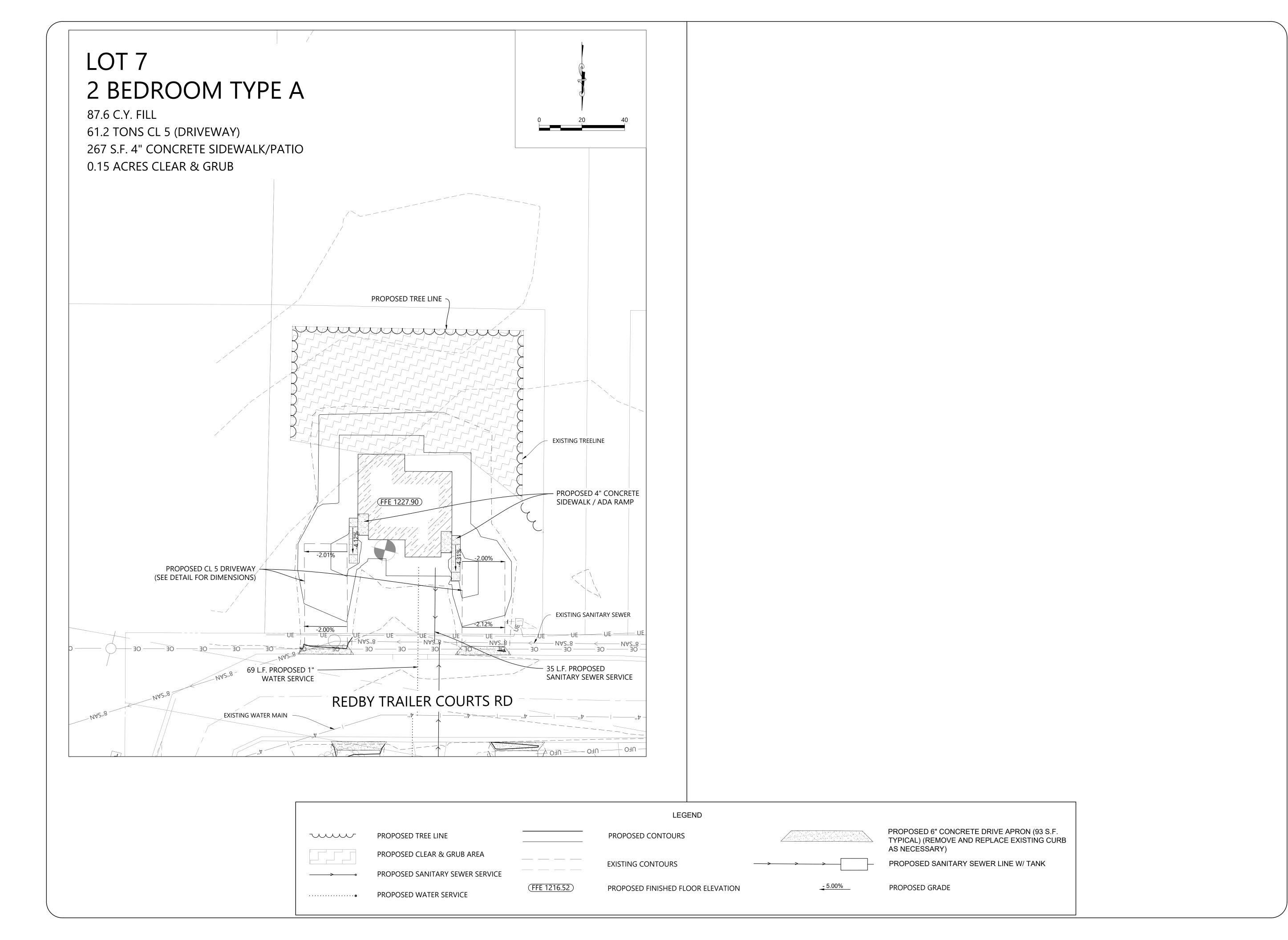
SHEET NO.

RED









NO. DATE DESCRIPTION BY

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPCED WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISIOND THAT I AM A DULY LICENSED PROFESSIONAL ENGINE UNDER THE LAWS OF THE STATE OF MINNESOTA.



RED LAKE SUPPORTIVE HOUSING

JOB NO. <u>23-009</u> DATE: <u>07/25/2023</u>

SHEET NO.

GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

- 1. AMEND THE SWPPP AND DOCUMENT ANY AND ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.
- 2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, AND AS REQUESTED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR ENGINEER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL THE ENGINEER HAS GRANTED ACCEPTANCE. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.
- 3. IT IS THE DESIGNER'S INTENT THAT THE CONTRACTOR BUILD PONDS AND PLACE EROSION CONTROL BMPS BEFORE PUTTING THEM INTO ACTIVE SERVICE TO THE MAXIMUM EXTENT PRACTICABLE
- 4. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY
- 5. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND-DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS
- 6. ROUTE STORM WATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET
- 7. DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION
- 8. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES COMMENCE
- 9. ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 10. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.
- 11. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PLACE BMP A MINIMUM 5 FEET FROM THE TOE OF SLOPE WHERE FEASIBLE. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORM WATER CONVEYANCES
- 12. FLOATING SILT CURTAIN IS ALLOWED AS PERIMETER CONTROL FOR IN WATER WORK ONLY. PLACE THE FLOATING SILT CURTAIN AS CLOSE TO SHORE AS POSSIBLE. PLACE PERIMETER CONTROL BMP ON LAND IMMEDIATELY AFTER THE IN WATER WORK IS COMPLETED
- 13. DITCH CHECKS WILL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION
- 14. PROTECT STORM SEWER INLETS AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS. SILT FENCE PLACED IN THE GRATE IS ONLY ALLOWED FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS. INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES WILL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. KEEP ALL STORM SEWER INLET PROTECTION DEVICES IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. REPLACE INLET PROTECTION DEVICE WITH A SUITABLE ALTERNATIVE IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE, OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES. THERE WILL BE NO COST TO MNDOT FOR REPLACEMENT OF INLET PROTECTION DEVICES
- 15. PLACE CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT SITE. PROVIDE CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACK OUT. MAINTAIN CONSTRUCTION EXITS WHEN EVIDENCE OF TRACKING IS DISCOVERED. REGULAR STREET SWEEPING IS NOT AN ACCEPTABLE ALTERNATIVE TO PROPER CONSTRUCTION EXIT INSTALLATION AND MAINTENANCE
- 16. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORM WATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS OR TEMPORARY SEDIMENT TRAPS TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED
- 17. PROVIDE SCOUR PROTECTION AT ANY OUTFALL OF DEWATERING ACTIVITIES
- 18. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES
- 19. REMOVE SEDIMENT FROM STORM WATER SYSTEM AT THE END OF PROJECT
- 20. PRESERVE A 50 FOOT NATURAL BUFFER OR (IF BUFFER IS INFEASIBLE) PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF LAND DISTURBANCE AND STORM WATER FLOWS TO THE SURFACE WATER.

POLLUTION PREVENTION

- 1. PROVIDE A SPILL KIT AT EACH WORK LOCATION ON THE SITE
- 2. STORE ALL BUILDING MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS, PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS UNDER COVER AND WITH SECONDARY CONTAINMENT.
- 3. PROVIDE A SECURE STORAGE AREA WITH RESTRICTED ACCESS FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE. RETURN ALL HAZARDOUS MATERIALS AND TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL HAZARDOUS MATERIALS AND TOXIC WASTE (INCLUDING BUT NOT LIMITED TO OIL, DIESEL FUEL GASOLINE, HYDRAULIC FLUIDS, PAINT, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES. CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS WITH SECONDARY CONTAINMENT. CLEAN UP SPILLS IMMEDIATELY.
- 4. STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.
- 5. POSITION ALL PORTABLE TOILETS SO THAT THEY ARE SECURE AND CANNOT BE TIPPED OR KNOCKED OVER. PROPERLY DISPOSE OF ALL SANITARY WASTE
- 6. FUEL AND MAINTAIN VEHICLES IN A DESIGNATED CONTAINED AREA WHENEVER FEASIBLE. USE DRIP PANS OR ABSORBENT MATERIALS TO PREVENT SPILLS OR LEAKED CHEMICALS FROM DISCHARGING TO SURFACE WATER OR STORM WATER CONVEYANCES. PROVIDE A SPILL KIT AT EACH LOCATION THAT VEHICLES AND EQUIPMENT ARE FUELED OR MAINTAINED.
- 7. LIMIT VEHICLE AND EQUIPMENT WASHING TO A DEFINED AREA OF THE SITE. CONTAIN RUNOFF FROM THE WASHING AREA TO A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL. PROPERLY DISPOSE OF ALL WASTE GENERATED BY VEHICLE AND EQUIPMENT WASHING. ENGINE DEGREASING IS NOT ALLOWED ON THE SITE.
- 8. PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OF CONCRETE, STUCCO PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS. LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND. DESIGN THE CONTAINMENT SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR CONTAINMENT AREA.
- 9. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER.
- 10. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.
- 11. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, CONCRETE WASH OUT, AND OTHER CONCRETE WASTES FROM LEAVING MNDOT RIGHT OF WAY, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS, AND FROM ENTERING STORM WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT SAW CUT SLURRY AND PLANNING WASTE FROM LEAVING MNDOT RIGHT OF WAY AND FROM ENTERING STORM WATER CONVEYANCE SYSTEMS INCLUDING DITCHES AND CULVERTS.

SITE INSPECTION AND MAINTENANCE

INSPECT THE ENTIRE CONSTRUCTION SITE A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. INSPECT ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT. EROSION PREVENTION AND SEDIMENT CONTROL BMPS UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND THE NOT HAS BEEN SUBMITTED. INSPECT SURFACE WATER INCLUDING DRAINAGE DITCHES FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF SITE SEDIMENT ACCUMULATION. INSPECT INFILTRATION AREAS FOR SIGNS OF SEDIMENT DEPOSITION AND COMPACTION (TO ENSURE THAT EQUIPMENT IS NOT BEING DRIVEN ACROSS THE AREA).

RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES IN WRITING WITHIN 24 HOURS. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT ENGINEER. INCLUDE THE FOLLOWING IN THE RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY:

- A. DATE AND TIME OF INSPECTIONS
- NAME OF PERSONS CONDUCTING INSPECTIONS
- C. FINDINGS OF INSPECTIONS. INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS
- D. CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES
- E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS
- F. DOCUMENTS AND CHANGES MADE TO THE SWPPP

REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY UNLESS LISTED:

- A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT 1/3 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
- B. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/3 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
- C. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIMENT BASINS ONCE THE SEDIMENT HAS REACHED 1/3 THE STORAGE VOLUME. COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY.
- D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS. CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS.
- E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
- F. MAINTAIN ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION HAS BEEN SUBMITTED.

NO. DATE

OULY LICENSED PROFESSIONAL ENGINEER: THE STATE OF MINNESOTA.

C. M. Faulane

Michael C. M.



PORTIVE HOUSING SWPPP

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RE

RVATION,

JOB NO. <u>23-009</u> DATE: <u>07/25/2023</u>

SHEET NO.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

PROJECT DESCRIPTION

THE FOLLOWING ARE THE MAJOR CONSTRUCTION ACTIVITIES THAT ARE THE SUBJECT OF THIS SWPPP: GRADING, AGGREGATE BASE, CONCRETE SURFACING, CONSTRUCTION OF 15 HOMES ALONG WITH RELATED RESTORATION.

SPECIAL AND IMPAIRED WATERS

THERE ARE NO SEDIMENT IMPAIRED WATERS LOCATED WITHIN ONE MILE OF THE PROJECT LIMITS AND RECEIVE RUNOFF FROM THE PROJECT SITE.

ENVIRONMENTALLY SENSITIVE AREAS

THERE ARE NO ENVIRONMENTALLY SENSITIVE AREAS LOCATED WITHIN ONE MILE OF THE PROJECT LIMITS AND RECEIVE RUNOFF FROM THE PROJECT

LONG TERM OPERATION AND MAINTENANCE

LONG TERM OPERATION AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE RED LAKE BAND OF CHIPPEWA INDIANS.

SWPPP TRAINING

THIS SWPPP WAS PREPARED BY NECI PERSONNEL THAT ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS. COPIES OF THE CERTIFICATIONS ARE ON FILE WITH MNDOT AND ARE AVAILABLE UPON REQUEST. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A CERTIFIED EROSION CONTROL SUPERVISOR THAT IS RESPONSIBLE FOR OVERSEEING THE IMPLEMENTATION OF THE SWPPP. THE CONTRACTOR MUST PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING AND WILL NOT BE ALLOWED TO COMMENCE WORK UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER. THE CONTRACTOR SHALL MAINTAIN A COPY OF THESE PLANS ON THE PROJECT SITE AT ALL TIMES, SINCE THESE PLANS SERVE AS THE SWPPP FOR THIS PROJECT. THE CONTRACTOR SHALL UPDATE THESE PLANS IF ANY ASPECT OF THE STORMWATER POLLUTION PREVENTION MEASURES ARE AMENDED BY THE ENGINEER.

ENVIRONMENTAL REVIEW

THERE ARE NO STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF AN ENVIRONMENTAL, ARCHEOLOGICAL OR AGENCY REVIEW. ALL MITIGATIONS MEASURES HAVE BEEN ADDRESSED IN THIS PLAN SET OR THE SPECIAL PROVISIONS. THIS PROJECT IS NOT LOCATED IN A WELL HEAD PROTECTION AREA.

SOIL TYPES TYPICALLY FOUND ON THIS PROJECT. SILTY SAND, SAND.

CHAIN OF RESPONSIBILITY

THE OWNER AND THE CONTRACTOR ARE CO-PERMITTEES FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AL ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED. THE CONTRACTOR WILL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETTE, THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION, AND A NOTICE OF TERMINATION HAS BEEN SUBMITTED.

PROJECT CONTACTS

THE PROJECT ENGINEER AND CONTRACTOR ARE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION HAS BEEN FILED. MNDOT STAFF AND MEMBER'S OF MNDOT OFFICE OF ENVIRONMENTAL STEWARDSHIP ARE ALSO AVAILABLE FOR TECHNICAL ASSISTANCE.

STABILIZATION TIME FRAMES			
AREA	TIME FRAME	NOTES	
LAST 200 LINEAL FEET OF DRAINAGE DITCH OR SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER OR POROPERTY EDGE	1, 2, 3	
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	14 DAYS / 7 DAYS	1, 3	
PIPE AND CULVERT OUTLETS	24 HOURS		
EXPOSED SOILS AND STOCKPILES	14 DAYS / 7 DAYS	1	
WITHIN 200 FEET OF A PUBLIC WATER	24 HOURS	7	

1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENTS.

2. STABILIZE WETTED PERIMETER OF DITCH.

3. APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.

4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHED, SEEDED, AND BLANKETED WITHIN THE TIME FRAME IN THE NPDES PERMIT.

5. TOPSOIL BERMS MUST BE STABILIZED IN ORDER TO BE CONSIDERED PERIMETER CONTROL BMPS. USE RAPID STABILIZATION METHOD APPROVED BY THE ENGINEER.

6. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES AND BLANKETS.

7. SEE WATER RESOURCES NOTES FOR A LIST OF PUBLIC WATER EXCLUSION DATES. 24 HOUR STABILIZATION REQUIREMENT ONLY APPLIES DURING THE EXCLUSION AND BLANKETS.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE SPECIAL PROVISIONS, MNDOT SPEC BOOK (2020 EDITION), OR ON FILE WITH MNDOT. THE NOTES AND TABLE BELOW ARE INTENDED TO BE QUICK REFERENCE FOR THE CONTRACTOR AND PROJECT ENGINEER TO USE IN THE FIELD. THERE MAY BE ADDITIONAL REQUIRED SWPPP ELEMENTS INCLUDED ON THE PROJECT THAT ARE NOT LISTED ON THIS SHEET.

PROJECT CONTACTS			
ORGANIZATION	OFFICE LOCATION	PHONE	
MPCA	Brainerd, MN	218-316-3900	
SWCD	Bemidji, MN	218-333-8486	
STATE DUTY OFFICER	Rochester, MN	651-649-5451	
MN DNR	St Paul, MN	651-296-6157	
ARMY CORP OF ENGINEERS	Federal Dam, MN	218-654-3145	

Project Details			
	Project Owner	Contractor (Prime)	
NAME:		To Be Determined	
ADDRESS:			
PHONE:			
CONTACT:			

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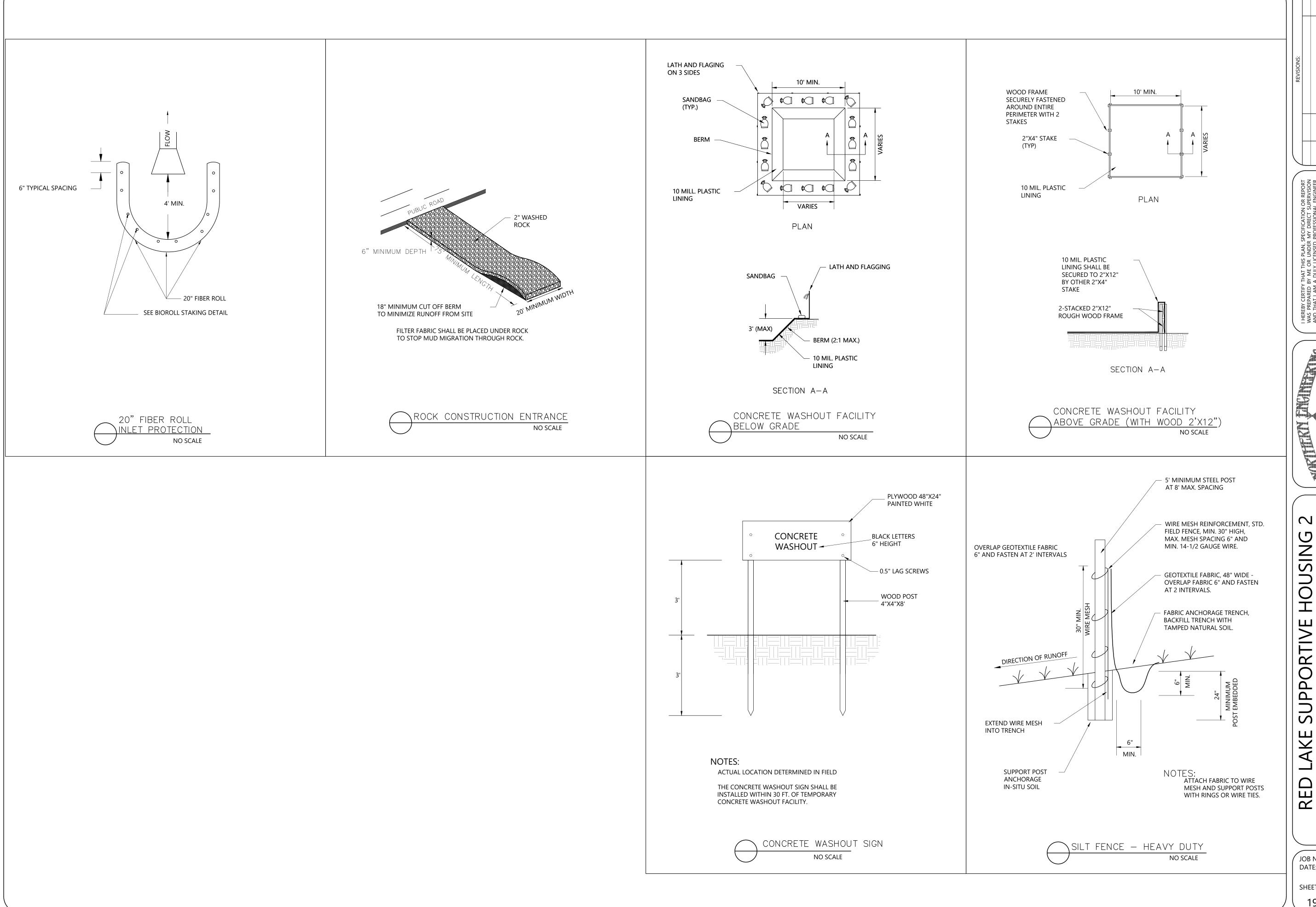
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JOB NO. <u>23-009</u> DATE: <u>07/25/2023</u>

SHEET NO.

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MINNESOTA

RESERVATION,

HOUSING SUPPORTIVE DETAIL SWPPP KE ED

> JOB NO. <u>23-009</u> DATE: <u>07/25/2023</u>

SHEET NO.