



**Purchasing Division**  
120 City Hall, 411 W. 1st Street  
Duluth, MN 55802-1189  
TEL. 218-730-5340 FAX: 218-730-5921  
[purchasing@duluthmn.gov](mailto:purchasing@duluthmn.gov)

## **REQUEST FOR QUOTES** (SIMPLIFIED BID) **WWI Veterans Memorial Park Construction**

**RFQ NUMBER: 19-99247**

**QUOTES DUE Monday, March 18, 2019 BY 2:00 PM**

**PROJECT DESCRIPTION:** Landscaping of Duluth's Memorial Park, including, dirt, sod, concrete work, and plantings.

**ANTICIPATED PROJECT START DATE:** April 1, 2019

**PROJECT COMPLETION DATE:** The concrete base for the memorial must be complete and ready for Murphy Granite to install memorial by June 1. Deadline for substantial completion of project is June 15, 2019.

**QUESTIONS:** Please submit any questions regarding this project via e-mail to [purchasing@duluthmn.gov](mailto:purchasing@duluthmn.gov). Responses will be sent to all invited suppliers/contractors.

**Not less than the minimum salaries and prevailing wages as set forth in the attached documents must be paid on this project. The awarded contractor will be required to provide proof of insurance meeting the city's requirements as outlined in the construction contract prior to commencement of work. If the cost of the project is over \$25,000.00, the contractor will be required to sign the city standard construction contract and performance and payment bonds will be required. If the cost exceeds \$50,000.00, a Responsible Contractor Form must be submitted. All of these documents can be reviewed on the city purchasing website at <http://www.duluthmn.gov/purchasing/forms/>**

All construction projects must adhere to the 2017 City of Duluth, Minnesota Construction Standards. The Standards, along with other standard construction documents, may be found online at <http://www.duluthmn.gov/engineering/standard-construction-specifications/>.

Quotes may be e-mailed to [purchasing@duluthmn.gov](mailto:purchasing@duluthmn.gov), mailed to the Purchasing Office, City Hall, 411 West 1st Street, Room 120, Duluth, MN 55802 or dropped off in person at the same address. Please reference RFQ 19-99247 in the subject line of your e-mail or on the envelope if mailing/dropping off.

The City of Duluth reserves the right to split the award where there is a substantial savings to the City, to waive informalities and to reject any and/or all quotes. Price may not be the only consideration for award. Quotes must be firm for a minimum of 30 days. Prevailing wages must be paid on this project. The most recent wage decision is attached.

### **The following documents must be submitted with your quote:**

- 1. Responsible Contractor (for any project over \$50,000)** - No construction contract in excess of \$50,000 will be awarded unless the Bidder is a "responsible contractor" as defined in Minnesota Statute §16C.285, subdivision 3. All Bidders submitting a quote for this project must verify that they meet the minimum criteria specified in the statute by submitting a Responsible Contractor Verification and Certification of Compliance form (attached) with their quote. The owner or officer of the company must sign the form under oath verifying compliance with each of the minimum criteria. Bidders must obtain verification of compliance from all subcontractors. Bidders must submit signed copies of verifications and certifications of compliance from subcontractors at the City's request.

**The awarded supplier/contractor will be required to submit the following forms before a contract will**

**be executed. Copies of standard contracts and forms are available for view and download on the City website at <http://www.duluthmn.gov/purchasing/forms/>:**

1. **Insurance** – Contractor must provide proof of Public Liability (General Commercial), Automobile Liability, and Worker’s Compensation insurance meeting City requirements. The insurance requirements are listed in section 7 of the draft construction contract.
2. **Affidavit of Non-Collusion** – The successful bidder shall be required to execute an affidavit stating that he/she has not entered into a collusive agreement with any other person, firm, or corporation in regard to any bid submitted.
3. **Performance & Payment Bonds** – The awarded contractor will be required to submit performance and payments bonds in the full amount of the project cost prior to award.
4. **Affirmative Action/EEO**- The contractor must take affirmative action to ensure that the employees and applicants for employment are not discriminated against because of their race, color, creed, sex or national origin, and must meet the affirmative action goals. Contractors are encouraged to subcontract with Disadvantaged Business Enterprises (DBEs) when possible. A current list of certified DBEs is available on the Minnesota Unified Certification website at <http://mnucp.metc.state.mn.us> . Contractor will comply with all applicable Equal Employment Opportunity laws and regulations. Awarded contractor must submit an Equal Employment Opportunity (EEO) Affirmative Action Policy Statement & Compliance Certificate.
5. **Out of State Contractor** - Unless a State of Minnesota Certificate of Exemption is provided, any out-of-state bidder receiving a bid award will have 8% retained from invoice payments on any contracts over \$50,000. Submit a signed copy of the signed exemption form when submitting Payment and Performance Bonds. Visit [http://www.revenue.state.mn.us/Forms\\_and\\_Instructions/sde.pdf](http://www.revenue.state.mn.us/Forms_and_Instructions/sde.pdf) for this form.

The City of Duluth is an Equal Opportunity Employer. Contractor shall comply with all applicable Equal Employment Opportunity laws and regulations.

CITY OF DULUTH  
Amanda Ashbach  
Purchasing Agent

**BID FORM**  
**BID # 19-99247**  
**WWI VETERANS MEMORIAL – MEMORIAL PARK CONSTRUCTION**

ITEM	PRICE
Lump Sum for Total Project	\$

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TOTAL BASE PRICE IN WRITING

**ACKNOWLEDGMENT OF ADDENDA**

ADDENDUM #	INITIAL/DATE
ADDENDUM #	INITIAL/DATE
ADDENDUM #	INITIAL/DATE

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Signature \_\_\_\_\_ Date \_\_\_\_\_

Name/Title \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Tel. \_\_\_\_\_ E-Mail \_\_\_\_\_

If your organization is certified as a Disadvantaged Business Enterprise, please check here:

**MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY PREVAILING WAGES FOR STATE FUNDED  
CONSTRUCTION PROJECTS**



**THIS NOTICE MUST BE POSTED ON THE JOBSITE IN A CONSPICUOUS PLACE**

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**Construction Type: Highway and Heavy**

**Region Number: 01**

Counties within region:

- CARLTON-09
- COOK-16
- ITASCA-31
- KOOCHICHING-36
- LAKE-38
- PINE-58
- ST. LOUIS-69

Effective: 2018-11-14

This project is covered by Minnesota prevailing wage statutes. Wage rates listed below are the minimum hourly rates to be paid on this project.

All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at a rate of one and one half (1 1/2) times the basic hourly rate.

Violations should be reported to:

Department of Transportation  
Office of Construction  
Transportation Building MS650  
John Ireland Blvd  
St. Paul, MN 55155  
(651) 366-4209

Refer questions concerning the prevailing wage rates to:

Department of Labor and Industry  
Prevailing Wage Section  
443 Lafayette Road N  
St Paul, MN 55155  
(651) 284-5091  
[DLI.PrevWage@state.mn.us](mailto:DLI.PrevWage@state.mn.us)

**LABOR CODE AND CLASS**

EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
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**LABORERS (101 - 112) (SPECIAL CRAFTS 701 - 730)**

101 LABORER, COMMON (GENERAL LABOR WORK)	2018-11-14	30.78	19.32	50.10
	2019-05-01	31.78	20.27	52.05
102 LABORER, SKILLED (ASSISTING SKILLED CRAFT JOURNEYMAN)	2018-11-14	30.78	19.32	50.10
	2019-05-01	31.78	20.27	52.05
103 LABORER, LANDSCAPING (GARDENER, SOD LAYER AND NURSERY OPERATOR)	2018-11-14	23.02	15.99	39.01
	2019-05-01	24.00	16.96	40.96
104 FLAG PERSON	2018-11-14	30.78	19.32	50.10
	2019-05-01	31.78	20.27	52.05
105 WATCH PERSON	2018-11-14	27.23	19.07	46.30
	2019-05-01	28.23	20.02	48.25
106 BLASTER	2018-11-14	32.23	17.02	49.25
107 PIPELAYER (WATER, SEWER AND GAS)	2018-11-14	33.28	19.32	52.60
	2019-05-01	34.28	20.27	54.55
108 TUNNEL MINER	2018-11-14	31.48	19.32	50.80
109 UNDERGROUND AND OPEN DITCH LABORER (EIGHT FEET BELOW STARTING GRADE LEVEL)	2018-11-14	31.48	19.32	50.80
	2019-05-01	32.48	20.27	52.75
110 SURVEY FIELD TECHNICIAN (OPERATE TOTAL STATION, GPS RECEIVER, LEVEL, ROD OR RANGE POLES, STEEL TAPE MEASUREMENT; MARK AND DRIVE STAKES; HAND OR POWER DIGGING FOR AND IDENTIFICATION OF MARKERS OR MONUMENTS;	2018-11-14	30.78	19.32	50.10

PERFORM AND CHECK CALCULATIONS; REVIEW AND UNDERSTAND CONSTRUCTION PLANS AND LAND SURVEY MATERIALS). THIS CLASSIFICATION DOES NOT APPLY TO THE WORK PERFORMED ON A PREVAILING WAGE PROJECT BY A LAND SURVEYOR WHO IS LICENSED PURSUANT TO MINNESOTA STATUTES, SECTIONS 326.02 TO 326.15.

2019-05-01 31.78 20.27 52.05

111 TRAFFIC CONTROL PERSON (TEMPORARY SIGNAGE) 2018-11-14 29.23 17.02 46.25

112 QUALITY CONTROL TESTER (FIELD AND COVERED OFF-SITE FACILITIES; TESTING OF AGGREGATE, ASPHALT, AND CONCRETE MATERIALS); LIMITED TO MN DOT HIGHWAY AND HEAVY CONSTRUCTION PROJECTS WHERE THE MN DOT HAS RETAINED QUALITY ASSURANCE PROFESSIONALS TO REVIEW AND INTERPRET THE RESULTS OF QUALITY CONTROL TESTERS. SERVICES PROVIDED BY THE CONTRACTOR. 2018-11-14 25.32 9.59 34.91

**SPECIAL EQUIPMENT (201 - 204)**

201 ARTICULATED HAULER 2018-11-14 36.04 20.30 56.34  
2019-05-01 37.79 20.50 58.29

202 BOOM TRUCK 2018-11-14 36.04 20.30 56.34

203 LANDSCAPING EQUIPMENT, INCLUDES HYDRO SEEDER OR MULCHER, SOD ROLLER, FARM TRACTOR WITH ATTACHMENT SPECIFICALLY SEEDING, SODDING, OR PLANT, AND TWO-FRAMED FORKLIFT (EXCLUDING FRONT, POSIT-TRACK, AND SKID STEER LOADERS), NO EARTHWORK OR GRADING FOR ELEVATIONS 2018-11-14 30.44 19.70 50.14

204 OFF-ROAD TRUCK 2018-11-14 31.37 16.70 48.07

205 PAVEMENT MARKING OR MARKING REMOVAL EQUIPMENT (ONE OR TWO PERSON OPERATORS); SELF-PROPELLED TRUCK OR TRAILER MOUNTED UNITS. 2018-11-14 28.36 20.89 49.25

## HIGHWAY/HEAVY POWER EQUIPMENT OPERATOR

<b>GROUP 2</b>	2018-11-14	36.89	20.30	57.19
	2019-05-01	38.64	20.50	59.14
302 HELICOPTER PILOT (HIGHWAY AND HEAVY ONLY)				
303 CONCRETE PUMP (HIGHWAY AND HEAVY ONLY)				
304 ALL CRANES WITH OVER 135-FOOT BOOM, EXCLUDING JIB (HIGHWAY AND HEAVY ONLY)				
305 DRAGLINE, CRAWLER, HYDRAULIC BACKHOE (TRACK OR WHEEL MOUNTED) AND/OR OTHER SIMILAR EQUIPMENT WITH SHOVEL-TYPE CONTROLS THREE CUBIC YARDS AND OVER MANUFACTURER.S RATED CAPACITY INCLUDING ALL ATTACHMENTS. (HIGHWAY AND HEAVY ONLY)				
306 GRADER OR MOTOR PATROL				
307 PILE DRIVING (HIGHWAY AND HEAVY ONLY)				
308 TUGBOAT 100 H.P. AND OVER WHEN LICENSE REQUIRED (HIGHWAY AND HEAVY ONLY)				
<b>GROUP 3</b>	2018-11-14	36.34	20.30	56.64
	2019-05-01	38.09	20.50	58.59
309 ASPHALT BITUMINOUS STABILIZER PLANT				
310 CABLEWAY				
311 CONCRETE MIXER, STATIONARY PLANT (HIGHWAY AND HEAVY ONLY)				
312 DERRICK (GUY OR STIFFLEG)(POWER)(SKIDS OR STATIONARY) (HIGHWAY AND HEAVY ONLY)				
313 DRAGLINE, CRAWLER, HYDRAULIC BACKHOE (TRACK OR WHEEL MOUNTED) AND/OR SIMILAR EQUIPMENT WITH SHOVEL-TYPE CONTROLS, UP TO THREE CUBIC YARDS MANUFACTURER.S RATED CAPACITY INCLUDING ALL ATTACHMENTS (HIGHWAY AND HEAVY ONLY)				
314 DREDGE OR ENGINEERS, DREDGE (POWER) AND ENGINEER				
315 FRONT END LOADER, FIVE CUBIC YARDS AND OVER INCLUDING ATTACHMENTS. (HIGHWAY AND HEAVY ONLY)				
316 LOCOMOTIVE CRANE OPERATOR				
317 MIXER (PAVING) CONCRETE PAVING, ROAD MOLE, INCLUDING MUCKING OPERATIONS, CONWAY OR SIMILAR TYPE				
318 MECHANIC . WELDER ON POWER EQUIPMENT (HIGHWAY AND HEAVY ONLY)				
319 TRACTOR . BOOM TYPE (HIGHWAY AND HEAVY ONLY)				
320 TANDEM SCRAPER				
321 TRUCK CRANE . CRAWLER CRANE (HIGHWAY AND HEAVY ONLY)				
322 TUGBOAT 100 H.P AND OVER (HIGHWAY AND HEAVY ONLY)				

<b>GROUP 4</b>	2018-11-14	36.04	20.30	56.34
	2019-05-01	37.79	20.50	58.29
323	AIR TRACK ROCK DRILL			
324	AUTOMATIC ROAD MACHINE (CMI OR SIMILAR) (HIGHWAY AND HEAVY ONLY)			
325	BACKFILLER OPERATOR			
326	CONCRETE BATCH PLANT OPERATOR (HIGHWAY AND HEAVY ONLY)			
327	BITUMINOUS ROLLERS, RUBBER TIRED OR STEEL DRUMMED (EIGHT TONS AND OVER)			
328	BITUMINOUS SPREADER AND FINISHING MACHINES (POWER), INCLUDING PAVERS, MACRO SURFACING AND MICRO SURFACING, OR SIMILAR TYPES (OPERATOR AND SCREED PERSON)			
329	BROKK OR R.T.C. REMOTE CONTROL OR SIMILAR TYPE WITH ALL ATTACHMENTS			
330	CAT CHALLENGER TRACTORS OR SIMILAR TYPES PULLING ROCK WAGONS, BULLDOZERS AND SCRAPERS			
331	CHIP HARVESTER AND TREE CUTTER			
332	CONCRETE DISTRIBUTOR AND SPREADER FINISHING MACHINE, LONGITUDINAL FLOAT, JOINT MACHINE, AND SPRAY MACHINE			
333	CONCRETE MIXER ON JOBSITE (HIGHWAY AND HEAVY ONLY)			
334	CONCRETE MOBIL (HIGHWAY AND HEAVY ONLY)			
335	CRUSHING PLANT (GRAVEL AND STONE) OR GRAVEL WASHING, CRUSHING AND SCREENING PLANT			
336	CURB MACHINE			
337	DIRECTIONAL BORING MACHINE			
338	DOPE MACHINE (PIPELINE)			
339	DRILL RIGS, HEAVY ROTARY OR CHURN OR CABLE DRILL (HIGHWAY AND HEAVY ONLY)			
340	DUAL TRACTOR			
341	ELEVATING GRADER			
342	FORK LIFT OR STRADDLE CARRIER (HIGHWAY AND HEAVY ONLY)			
343	FORK LIFT OR LUMBER STACKER (HIGHWAY AND HEAVY ONLY)			
344	FRONT END, SKID STEER OVER 1 TO 5 C YD			
345	GPS REMOTE OPERATING OF EQUIPMENT			
346	HOIST ENGINEER (POWER) (HIGHWAY AND HEAVY ONLY)			
347	HYDRAULIC TREE PLANTER			
348	LAUNCHER PERSON (TANKER PERSON OR PILOT LICENSE)			
349	LOCOMOTIVE (HIGHWAY AND HEAVY ONLY)			
350	MILLING, GRINDING, PLANNING, FINE GRADE, OR TRIMMER MACHINE			
351	MULTIPLE MACHINES, SUCH AS AIR COMPRESSORS, WELDING MACHINES, GENERATORS, PUMPS (HIGHWAY AND HEAVY ONLY)			
352	PAVEMENT BREAKER OR TAMPING MACHINE (POWER DRIVEN) MIGHTY MITE OR SIMILAR TYPE			



- 353 PICKUP SWEEPER, ONE CUBIC YARD AND OVER HOPPER CAPACITY(HIGHWAY AND HEAVY ONLY)
- 354 PIPELINE WRAPPING, CLEANING OR BENDING MACHINE
- 355 POWER PLANT ENGINEER, 100 KWH AND OVER (HIGHWAY AND HEAVY ONLY)
- 356 POWER ACTUATED HORIZONTAL BORING MACHINE, OVER SIX INCHES
- 357 PUGMILL
- 358 PUMPCRETE (HIGHWAY AND HEAVY ONLY)
- 359 RUBBER-TIRED FARM TRACTOR WITH BACKHOE INCLUDING ATTACHMENTS (HIGHWAY AND HEAVY ONLY)
- 360 SCRAPER
- 361 SELF-PROPELLED SOIL STABILIZER
- 362 SLIP FORM (POWER DRIVEN) (PAVING)
- 363 TIE TAMPER AND BALLAST MACHINE
- 364 TRACTOR, BULLDOZER (HIGHWAY AND HEAVY ONLY)
- 365 TRACTOR, WHEEL TYPE, OVER 50 H.P. WITH PTO UNRELATED TO LANDSCAPING (HIGHWAY AND HEAVY ONLY)
- 366 TRENCHING MACHINE (SEWER, WATER, GAS) EXCLUDES WALK BEHIND TRENCHER (HIGHWAY AND HEAVY ONLY)
- 367 TUB GRINDER, MORBARK, OR SIMILAR TYPE
- 368 WELL POINT DISMANTLING OR INSTALLATION (HIGHWAY AND HEAVY ONLY)

<b>GROUP 5</b>	2018-11-14	33.00	20.30	53.30
	2019-05-01	34.75	20.50	55.25

- 369 AIR COMPRESSOR, 600 CFM OR OVER (HIGHWAY AND HEAVY ONLY)
- 370 BITUMINOUS ROLLER (UNDER EIGHT TONS)
- 371 CONCRETE SAW (MULTIPLE BLADE) (POWER OPERATED)
- 372 FORM TRENCH DIGGER (POWER)
- 373 FRONT END, SKID STEER UP TO 1C YD
- 374 GUNITE GUNALL (HIGHWAY AND HEAVY ONLY)
- 375 HYDRAULIC LOG SPLITTER
- 376 LOADER (BARBER GREENE OR SIMILAR TYPE)
- 377 POST HOLE DRIVING MACHINE/POST HOLE AUGER
- 378 POWER ACTUATED AUGER AND BORING MACHINE
- 379 POWER ACTUATED JACK
- 380 PUMP (HIGHWAY AND HEAVY ONLY)
- 381 SELF-PROPELLED CHIP SPREADER (FLAHERTY OR SIMILAR)
- 382 SHEEP FOOT COMPACTOR WITH BLADE . 200 H.P. AND OVER

- 383 SHOULDERING MACHINE (POWER) APSCO OR SIMILAR TYPE INCLUDING SELF-PROPELLED SAND AND CHIP SPREADER
- 384 STUMP CHIPPER AND TREE CHIPPER
- 385 TREE FARMER (MACHINE)

<b>GROUP 6</b>	2018-11-14	31.79	20.30	52.09
	2019-05-01	33.54	20.50	54.04
387 CAT, CHALLENGER, OR SIMILAR TYPE OF TRACTORS, WHEN PULLING DISK OR ROLLER				
388 CONVEYOR (HIGHWAY AND HEAVY ONLY)				
389 DREDGE DECK HAND				
390 FIRE PERSON OR TANK CAR HEATER (HIGHWAY AND HEAVY ONLY)				
391 GRAVEL SCREENING PLANT (PORTABLE NOT CRUSHING OR WASHING)				
392 GREASER (TRACTOR) (HIGHWAY AND HEAVY ONLY)				
393 LEVER PERSON				
394 OILER (POWER SHOVEL, CRANE, TRUCK CRANE, DRAGLINE, CRUSHERS, AND MILLING MACHINES, OR OTHER SIMILAR HEAVY EQUIPMENT) (HIGHWAY AND HEAVY ONLY)				
395 POWER SWEEPER				
396 SHEEP FOOT ROLLER AND ROLLERS ON GRAVEL COMPACTION, INCLUDING VIBRATING ROLLERS				
397 TRACTOR, WHEEL TYPE, OVER 50 H.P., UNRELATED TO LANDSCAPING				

**TRUCK DRIVERS**

<b>GROUP 1</b>	2018-11-14	30.85	17.50	48.35
601 MECHANIC . WELDER				
602 TRACTOR TRAILER DRIVER				
603 TRUCK DRIVER (HAULING MACHINERY INCLUDING OPERATION OF HAND AND POWER OPERATED WINCHES)				

<b>GROUP 2</b>	2018-11-14	30.30	17.50	47.80
604 FOUR OR MORE AXLE UNIT, STRAIGHT BODY TRUCK				

<b>GROUP 3</b>	2018-11-14	27.82	17.20	45.02
605 BITUMINOUS DISTRIBUTOR DRIVER				
606 BITUMINOUS DISTRIBUTOR (ONE PERSON OPERATION)				
607 THREE AXLE UNITS				

<b>GROUP 4</b>	2018-11-14	29.95	17.50	47.45
608 BITUMINOUS DISTRIBUTOR SPRAY OPERATOR (REAR AND OILER)				
609 DUMP PERSON				
610 GREASER				
611 PILOT CAR DRIVER				
612 RUBBER-TIRED, SELF-PROPELLED PACKER UNDER 8 TONS				
613 TWO AXLE UNIT				
614 SLURRY OPERATOR				
615 TANK TRUCK HELPER (GAS, OIL, ROAD OIL, AND WATER)				
616 TRACTOR OPERATOR, UNDER 50 H.P.				

#### **SPECIAL CRAFTS**

701 HEATING AND FROST INSULATORS	2018-11-14	40.31	16.75	57.06
702 BOILERMAKERS	2018-11-14	37.22	27.14	64.36
	2019-01-01	38.33	27.43	65.76
703 BRICKLAYERS	2018-11-14	32.91	22.82	55.73
704 CARPENTERS	2018-11-14	36.15	20.43	56.58
	2019-05-01	38.10	20.43	58.53
705 CARPET LAYERS (LINOLEUM)	2018-11-14	32.13	12.85	44.98
706 CEMENT MASONS	2018-11-14	34.80	19.18	53.98
707 ELECTRICIANS	2018-11-14	36.85	26.20	63.05
711 GROUND PERSON	2018-11-14	31.48	15.66	47.14
	2019-04-01	32.42	16.23	48.65
712 IRONWORKERS	2018-11-14	32.64	27.85	60.49
713 LINEMAN	2018-11-14	44.97	19.44	64.41
	2019-04-01	46.32	20.12	66.44

714 MILLWRIGHT	2018-11-14	38.07	18.94	57.01
	2019-05-01	40.02	18.94	58.96
715 PAINTERS (INCLUDING HAND BRUSHED, HAND SPRAYED, AND THE TAPING OF PAVEMENT MARKINGS)	2018-11-14	30.96	18.77	49.73
716 PILEDRIIVER (INCLUDING VIBRATORY DRIVER OR EXTRACTOR FOR PILING AND SHEETING OPERATIONS)	2018-11-14	38.01	21.08	59.09
	2019-05-01	39.96	21.08	61.04
717 PIPEFITTERS . STEAMFITTERS	2018-11-14	39.99	31.30	71.29
719 PLUMBERS	2018-11-14	43.40	19.61	63.01
721 SHEET METAL WORKERS	2018-11-14	32.25	22.23	54.48
723 TERRAZZO WORKERS	FOR RATE CALL 651-284-5091 OR EMAIL <a href="mailto:DLI.PRE VWAGE@STATE.MN.US">DLI.PRE VWAGE@STATE.MN.US</a>			
724 TILE SETTERS	FOR RATE CALL 651-284-5091 OR EMAIL <a href="mailto:DLI.PRE VWAGE@STATE.MN.US">DLI.PRE VWAGE@STATE.MN.US</a>			
725 TILE FINISHERS	FOR RATE CALL 651-284-5091 OR EMAIL <a href="mailto:DLI.PRE VWAGE@STATE.MN.US">DLI.PRE VWAGE@STATE.MN.US</a>			
727 WIRING SYSTEM TECHNICIAN	2018-11-14	38.97	17.14	56.11
	2019-07-01	40.17	17.14	57.31
728 WIRING SYSTEMS INSTALLER	2018-11-14	27.30	14.31	41.61
	2019-07-01	28.14	14.31	42.45
729 ASBESTOS ABATEMENT WORKER	2018-11-14	30.83	18.70	49.53
	2019-01-01	31.78	19.35	51.13

730 SIGN ERECTOR

FOR RATE CALL 651-284-5091 OR  
EMAIL  
[DLI.PREWAGE@STATE.MN.US](mailto:DLI.PREWAGE@STATE.MN.US)

**THIS FORM MUST BE RETURNED WITH YOUR BID**

**PRIME CONTRACTOR RESPONSE**

**RESPONSIBLE CONTRACTOR VERIFICATION AND CERTIFICATION OF COMPLIANCE**

**STATE PROJECT NUMBER:** \_\_\_\_\_

**This form includes changes by statutory references from the Laws of Minnesota 2015, chapter 64, sections 1-9. This form must be submitted with the response to this solicitation. A response received without this form, will be rejected.**

<p>Minn. Stat. § 16C.285, Subd. 7. <b>IMPLEMENTATION.</b> ... any prime contractor or subcontractor or motor carrier that does not meet the minimum criteria in subdivision 3 or fails to verify that it meets those criteria is not a responsible contractor and is not eligible to be awarded a construction contract for the project or to perform work on the project...</p>	
<p>Minn. Stat. § 16C.285, Subd. 3. <b>RESPONSIBLE CONTRACTOR, MINIMUM CRITERIA.</b> "Responsible contractor" means a contractor that conforms to the responsibility requirements in the solicitation document for its portion of the work on the project and verifies that it meets the following minimum criteria:</p>	
(1)	<p>The Contractor:</p> <ul style="list-style-type: none"><li>(i) is in compliance with workers' compensation and unemployment insurance requirements;</li><li>(ii) is in compliance with Department of Revenue and Department of Employment and Economic Development registration requirements if it has employees;</li><li>(iii) has a valid federal tax identification number or a valid Social Security number if an individual; and</li><li>(iv) has filed a certificate of authority to transact business in Minnesota with the Secretary of State if a foreign corporation or cooperative.</li></ul>
(2)	<p>The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 177.24, 177.25, 177.41 to 177.44, 181.13, 181.14, or 181.722, and has not violated United States Code, title 29, sections 201 to 219, or United States Code, title 40, sections 3141 to 3148. For purposes of this clause, a violation occurs when a contractor or related entity:</p> <ul style="list-style-type: none"><li>(i) repeatedly fails to pay statutorily required wages or penalties on one or more separate projects for a total underpayment of \$25,000 or more within the three-year period, provided that a failure to pay is "repeated" only if it involves two or more separate and distinct occurrences of underpayment during the three-year period;</li><li>(ii) has been issued an order to comply by the commissioner of Labor and Industry that has become final;</li><li>(iii) has been issued at least two determination letters within the three-year period by the Department of Transportation finding an underpayment by the contractor or related entity to its own employees;</li><li>(iv) has been found by the commissioner of Labor and Industry to have repeatedly or willfully violated any of the sections referenced in this clause pursuant to section 177.27;</li><li>(v) has been issued a ruling or findings of underpayment by the administrator of the Wage and Hour Division of the United States Department of Labor that have become final or have been upheld by an administrative law judge or the Administrative Review Board; or</li><li>(vi) has been found liable for underpayment of wages or penalties or misrepresenting a construction worker as an independent contractor in an action brought in a court having jurisdiction. Provided that, if the contractor or related entity contests a determination of underpayment by the Department of Transportation in a contested case proceeding, a violation does not occur until the contested case proceeding has concluded with a determination that the contractor or related entity underpaid wages or penalties;*</li></ul>

(3)	The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 181.723 or chapter 326B. For purposes of this clause, a violation occurs when a contractor or related entity has been issued a final administrative or licensing order;*
(4)	The contractor or related entity has not, more than twice during the three-year period before submitting the verification, had a certificate of compliance under section 363A.36 revoked or suspended based on the provisions of section 363A.36, with the revocation or suspension becoming final because it was upheld by the Office of Administrative Hearings or was not appealed to the office;*
(5)	The contractor or related entity has not received a final determination assessing a monetary sanction from the Department of Administration or Transportation for failure to meet targeted group business, disadvantaged business enterprise, or veteran-owned business goals, due to a lack of good faith effort, more than once during the three-year period before submitting the verification;*
	* Any violations, suspensions, revocations, or sanctions, as defined in clauses (2) to (5), occurring prior to July 1, 2014, shall not be considered in determining whether a contractor or related entity meets the minimum criteria.
(6)	The contractor or related entity is not currently suspended or debarred by the federal government or the state of Minnesota or any of its departments, commissions, agencies, or political subdivisions that have authority to debar a contractor; and
(7)	All subcontractors and motor carriers that the contractor intends to use to perform project work have verified to the contractor through a signed statement under oath by an owner or officer that they meet the minimum criteria listed in clauses (1) to (6).

Minn. Stat. § 16C.285, Subd. 5. **SUBCONTRACTOR VERIFICATION.**

A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project. Prior to execution of a construction contract, and as a condition precedent to the execution of a construction contract, the apparent successful prime contractor shall submit to the contracting authority a supplemental verification under oath confirming compliance with subdivision 3, clause (7). Each contractor or subcontractor shall obtain from all subcontractors with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each subcontractor.

If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors.

A prime contractor shall submit to the contracting authority upon request copies of the signed verifications of compliance from all subcontractors of any tier pursuant to subdivision 3, clause (7). A prime contractor and subcontractors shall not be responsible for the false statements of any subcontractor with which they do not have a direct contractual relationship. A prime contractor and subcontractors shall be responsible for false statements by their first-tier subcontractors with which they have a direct contractual relationship only if they accept the verification of compliance with actual knowledge that it contains a false statement.

Subd. 5a. **Motor carrier verification.** A prime contractor or subcontractor shall obtain annually from all motor carriers with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each motor carrier. A prime contractor or subcontractor shall require each such motor carrier to provide it with immediate written notification in the event that the motor carrier no longer meets one or more of the minimum criteria in subdivision 3 after submitting its annual verification. A motor carrier shall be ineligible to perform work on a project covered by this section if it does not meet all the minimum criteria in subdivision 3. Upon request, a prime contractor or subcontractor shall submit to the contracting authority the signed verifications of compliance from all motor carriers providing for-hire transportation of materials, equipment, or supplies for a project.

Minn. Stat. § 16C.285, Subd. 4. **VERIFICATION OF COMPLIANCE.**

A contractor responding to a solicitation document of a contracting authority shall submit to the contracting authority a signed statement under oath by an owner or officer verifying compliance with each of the minimum criteria in subdivision 3, with the exception of clause (7), at the time that it responds to the solicitation document.

A contracting authority may accept a signed statement under oath as sufficient to demonstrate that a contractor is a responsible contractor and shall not be held liable for awarding a contract in reasonable reliance on that statement. A prime contractor, subcontractor, or motor carrier that fails to verify compliance with any one of the required minimum criteria or makes a false statement under oath in a verification of compliance shall be ineligible to be awarded a construction contract on the project for which the verification was submitted.

A false statement under oath verifying compliance with any of the minimum criteria may result in termination of a construction contract that has already been awarded to a prime contractor or subcontractor or motor carrier that submits a false statement. A contracting authority shall not be liable for declining to award a contract or terminating a contract based on a reasonable determination that the contractor failed to verify compliance with the minimum criteria or falsely stated that it meets the minimum criteria. A verification of compliance need not be notarized. An electronic verification of compliance made and submitted as part of an electronic bid shall be an acceptable verification of compliance under this section provided that it contains an electronic signature as defined in section 325L.02, paragraph (h).

**CERTIFICATION**

**By signing this document I certify that I am an owner or officer of the company, and I swear under oath that:**

- 1) My company meets each of the Minimum Criteria to be a responsible contractor as defined herein and is in compliance with Minn. Stat. § 16C.285, and**
- 2) if my company is awarded a contract, I will submit Attachment A-1 prior to contract execution, and**
- 3) if my company is awarded a contract, I will also submit Attachment A-2 as required.**

**Authorized Signature of Owner or Officer:**

**Printed Name:**

**Title:**

**Date:**

**Company Name:**

NOTE: Minn. Stat. § 16C.285, Subd. 2, (c) If only one prime contractor responds to a solicitation document, a contracting authority may award a construction contract to the responding prime contractor even if the minimum criteria in subdivision 3 are not met.



**ATTACHMENT A-1**

**FIRST-TIER SUBCONTRACTORS LIST**

**SUBMIT PRIOR TO EXECUTION OF A CONSTRUCTION CONTRACT**

**STATE PROJECT NUMBER:** \_\_\_\_\_

Minn. Stat. § 16C.285, Subd. 5. A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project. Prior to execution of a construction contract, and as a condition precedent to the execution of a construction contract, the apparent successful prime contractor shall submit to the contracting authority a supplemental verification under oath confirming compliance with subdivision 3, clause (7). Each contractor or subcontractor shall obtain from all subcontractors with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each subcontractor.

<b>FIRST TIER SUBCONTRACTOR NAMES* (Legal name of company as registered with the Secretary of State)</b>	<b>Name of city where company home office is located</b>

\*Attach additional sheets as needed for submission of all first-tier subcontractors.

<b>SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-1</b>	
<p><b>By signing this document I certify that I am an owner or officer of the company, and I swear under oath that:</b></p> <p><b>All first-tier subcontractors listed on attachment A-1 have verified through a signed statement under oath by an owner or officer that they meet the minimum criteria to be a responsible contractor as defined in Minn. Stat. § 16C.285.</b></p>	
<b>Authorized Signature of Owner or Officer:</b>	<b>Printed Name:</b>
<b>Title:</b>	<b>Date:</b>
<b>Company Name:</b>	

**ATTACHMENT A-2**

**ADDITIONAL SUBCONTRACTORS LIST**

**PRIME CONTRACTOR TO SUBMIT AS SUBCONTRACTORS ARE ADDED TO THE PROJECT**

**STATE PROJECT NUMBER:** \_\_\_\_\_

This form must be submitted to the Project Manager or individual as identified in the solicitation document.

Minn. Stat. § 16C.285, Subd. 5. ... If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors. ...

<b>ADDITIONAL SUBCONTRACTOR NAMES* (Legal name of company as registered with the Secretary of State)</b>	<b>Name of city where company home office is located</b>

\*Attach additional sheets as needed for submission of all additional subcontractors.

<b>SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-2</b>	
<p><b>By signing this document I certify that I am an owner or officer of the company, and I swear under oath that:</b></p> <p><b>All additional subcontractors listed on Attachment A-2 have verified through a signed statement under oath by an owner or officer that they meet the minimum criteria to be a responsible contractor as defined in Minn. Stat. § 16C.285.</b></p>	
<b>Authorized Signature of Owner or Officer:</b>	<b>Printed Name:</b>
<b>Title:</b>	<b>Date:</b>
<b>Company Name:</b>	

**AFFIDAVIT AND INFORMATION REQUIRED OF BIDDERS**

Affidavit of Non-Collusion:

I hereby swear (or affirm) under penalty of perjury:

- 1) That I am the bidder (if the bidder is an individual), a partner in the bidder (if the bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the bidder is a corporation);
- 2) That the attached bid or bids have been arrived at by the bidder independently and have been submitted without collusion with and without agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment or services described in the invitation to bid, designed to limit independent bidding or competition;
- 3) That the contents of the bid or bids have not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the bid or bids and will not be communicated to any such person prior to the official opening of the bid or bids;
- 4) That a family relationship between a City of Duluth employee and bidder/proposer are in non-collusion; and
- 5) That I have fully informed myself regarding the accuracy of the statements made in this affidavit.

Signed: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Subscribed and sworn to me before this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

NOTARY PUBLIC \_\_\_\_\_

My commission expires: \_\_\_\_\_

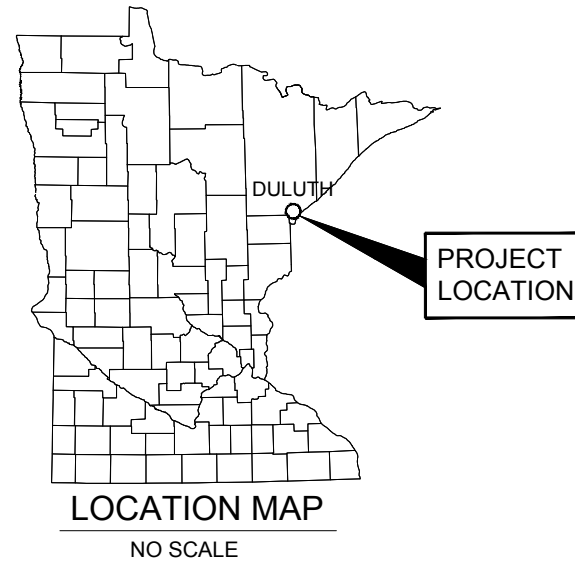
Bidder's Federal Identification Number \_\_\_\_\_

# DULUTH MEMORIAL PARK WWI VETERANS MEMORIAL DULUTH, MN 55807

PROJECT # 18-046

## GENERAL NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL UTILITIES.
- CONTRACTOR IS TO PROTECT ALL CURBS, SIDEWALKS, PAVEMENTS, LANDSCAPING, TREES, AND OTHER ITEMS WITHIN THE PROJECT VICINITY DURING CONSTRUCTION.
- ALL TRAFFIC CONTROL AND SITE PROTECTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- EXCESS MATERIALS NOT DESIRED BY OWNER SHALL BE DISPOSED OF BY CONTRACTOR PER LOCAL ORDINANCE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SILT, SOIL AND OTHER SUSPENDED PARTICLES FROM BEING DISCHARGED TO THE BODIES OF WATER OR DRAINAGE STRUCTURES IN THE CONSTRUCTION VICINITY. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL, UNLESS PAID FOR SPECIFICALLY IN THE PLANS.
- CONTRACTOR TO PROVIDE SUBMITTALS FOR ALL MATERIALS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
- ALL DISTURBED AREAS (INCLUDING BORROW AREAS, STORAGE, AND STAGING), NOT OTHERWISE SURFACED, SHALL RECEIVE SOD.
- EXISTING TOPOGRAPHY AND SITE DIMENSIONS MAY VARY FROM THAT SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND TO NOTIFY LANDSCAPE ARCHITECT OF DISCREPANCIES.
- ALL TESTING WILL BE PAID AND CONDUCTED BY OWNER. CONTRACTOR MUST NOTIFY LANDSCAPE ARCHITECT 48 HRS IN ADVANCE TO COORDINATE NECESSARY MATERIAL TESTING.
- ANY MATERIAL COVERED PRIOR TO TESTING WITHOUT 48 HOUR NOTIFICATION TO LANDSCAPE ARCHITECT MAY BE REMOVED AND REPLACED AT OWNER'S DISCRETION WITH NO ADDITIONAL COMPENSATION TO CONTRACTOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING PAVEMENTS, UTILITIES, MONUMENTS, TREES AND OTHER EXISTING FEATURES NOT SPECIFIED FOR REMOVAL DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED TO OWNER'S EXPECTATIONS AT CONTRACTOR'S EXPENSE.
- DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER ADJACENT FACILITIES WITHOUT NOTIFYING CITY OF DULUTH PUBLIC WORKS AND PROVIDING ALTERNATE ROUTES APPROVED BY OWNER.
- CONTRACTOR RESPONSIBLE FOR TURF MAINTENANCE FOR 60 DAYS AFTER SUBSTANTIAL COMPLETION. DAMAGED TURF AND/OR PLANTS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE DURING MAINTENANCE PERIOD.



## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
G-1	COVER SHEET
L-1	SITE PLAN
L-2	DETAILS
L-3	DETAILS
L-4	DETAILS
L-5	LANDSCAPE PLAN
L-6	LANDSCAPE DETAILS
S1.0	STRUCTURAL NOTES, PLAN & SECTION

## GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND "MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN



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tel: 218.727.8481  
fax: 218.722.8483



MEMORIAL PARK  
WWI VETERANS  
MEMORIAL

DULUTH, MINNESOTA

PROJECT NO.: 18-029

DATE: 25-FEB-2019

DRAWN BY: [E]

REVISIONS:

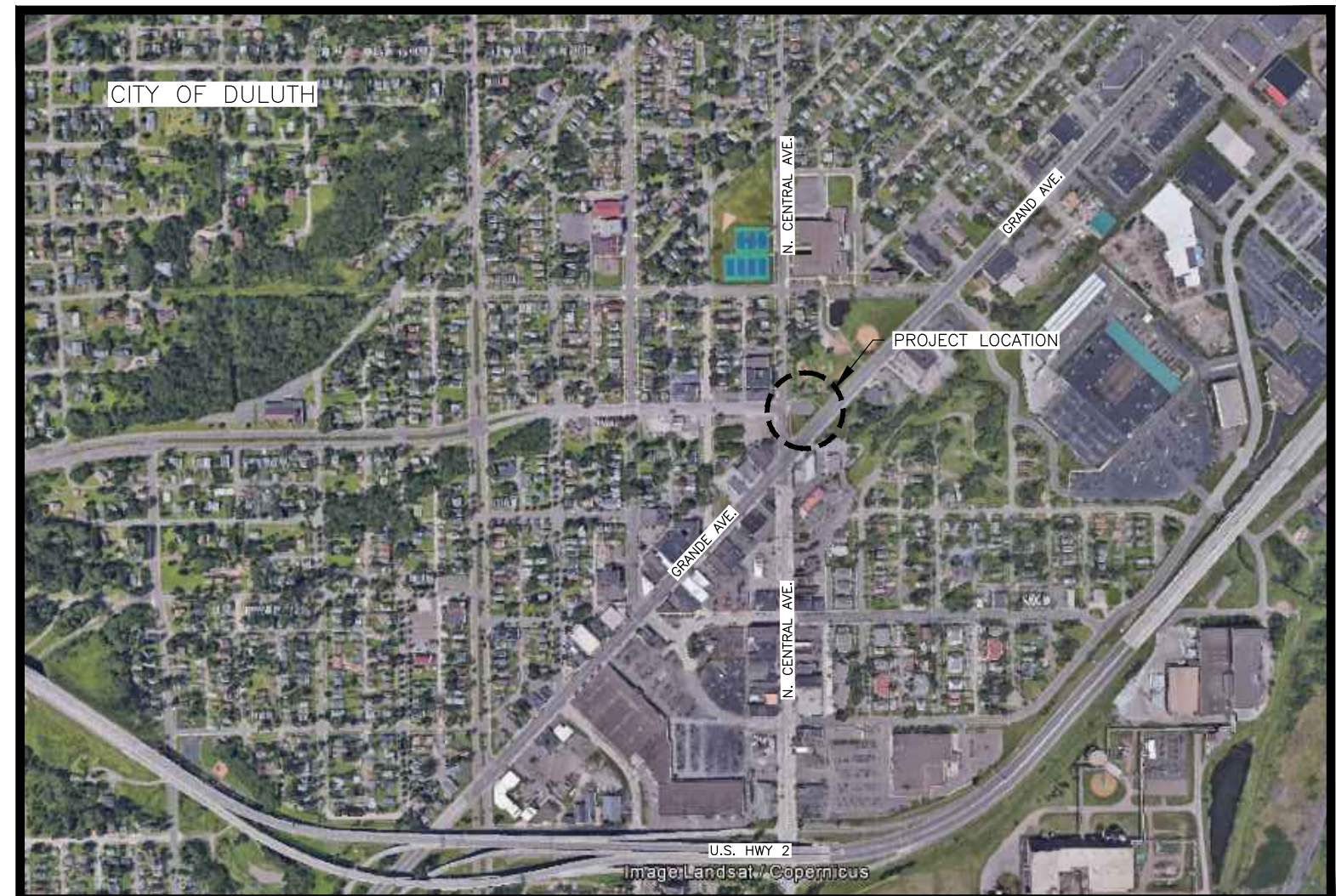
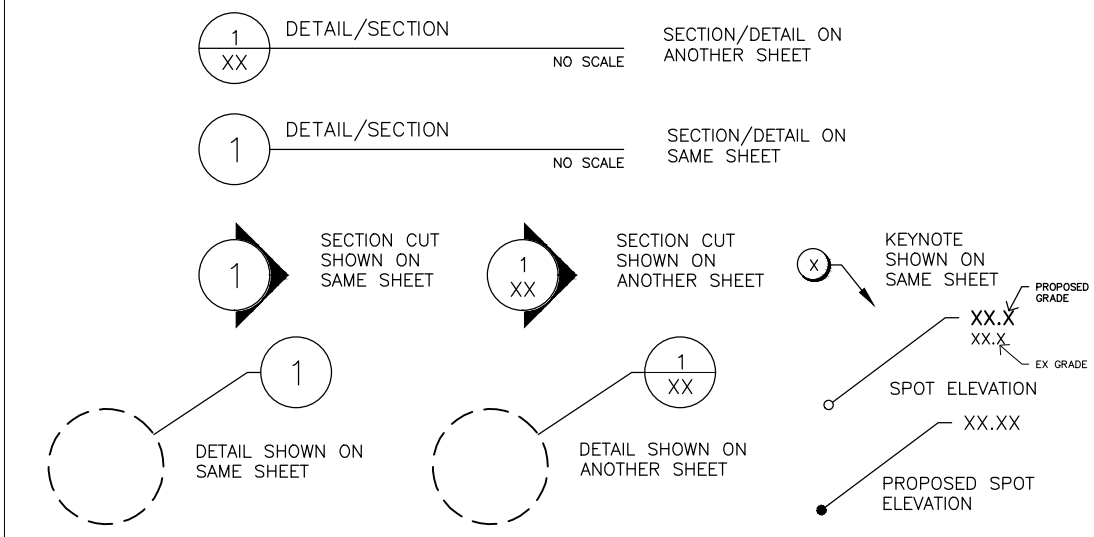
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

*[Signature]*  
LEITH JINNEN 50131  
LANDSCAPE ARCHITECT REG. NO.

COVER SHEET

L  
G-1

## GENERAL CROSS-REFERENCING SYMBOLS





**NOTICE TO BIDDERS:**

NO SURVEY DATA WAS AVAILABLE FOR DESIGN. CONTRACTOR IS TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. UTILITIES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO OVERHEAD ELECTRIC, HYDRANTS, UTILITY POLES AND WELL. A SITE VISIT IS RECOMMENDED PRIOR TO SUBMITTING A BID. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

**GENERAL NOTES:**

1. NO SURVEY WAS PERFORMED FOR THIS PROJECT. ALL ELEVATIONS ARE ASSUMED AND TO BE USED ONLY IN RELATION TO REQUIRED SLOPES. CONTRACTOR TO VERIFY ELEVATIONS.
2. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
3. ALL DISTURBED AREAS NOT OTHERWISE SPECIFIED SHALL RECEIVE SOD.

**KEYNOTES:**

- ① SAW CUT EXISTING CURB FOR NEW HANDICAP RAMP.
- ② NOT USED
- ③ EXISTING TREES TO REMAIN, TYP.
- ④ EXISTING PLANTERS TO REMAIN.
- ⑤ EXISTING ELECTRICAL CABINET TO REMAIN.
- ⑥ CONTRACTOR TO TIE IN GRADE FROM EXISTING FLOW LINE AND MEET SPECIFIED SLOPE REQUIREMENTS. SEE DETAIL 6/L-2.
- ⑦ ESTIMATED CONSTRUCTION LIMITS. BLEND INTO EXISTING GRADE WITH SLOPE NOT GREATER THAN 10:1 (RUN:RISE). SOD ALL DISTURBED AREAS.
- ⑧ 1/2" PREFORMED JOINT FILLER PER MNDOT SPEC. 3702.
- ⑨ INSTALL 24" X 48" CONCRETE SLAB FOR INTERPRETIVE SIGN. SURFACE MOUNT SIGN PER DETAIL 1/L-6.

**SUPPLEMENTARY SPECIFICATIONS:**

**FLAG POLE** - THE FLAGPOLE WAREHOUSE COMPANY 30' HIGH ALUMINUM TAPERED FLAGPOLE WITH INTERNAL HALLYARD & LOCKED ACCESS PANEL. (ILXIH30, INCL. FINIAL BEACON), OR APPROVED EQUAL.

FLAG SIZE: 5'X7' (HXW)  
 FINISH: BRUSHED ALUMINUM  
 FINIAL: SEE FLAG POLE LIGHT  
 COUNTERWEIGHT: YES  
 BEADED RETAINER RING; YES  
 WINCH: MANUAL  
 ACCESSORIES: SNAP HOOKS W/ PLASTIC COVER

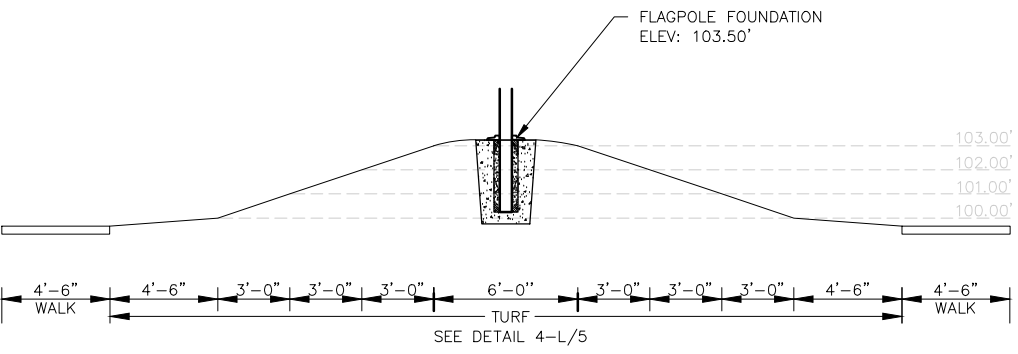
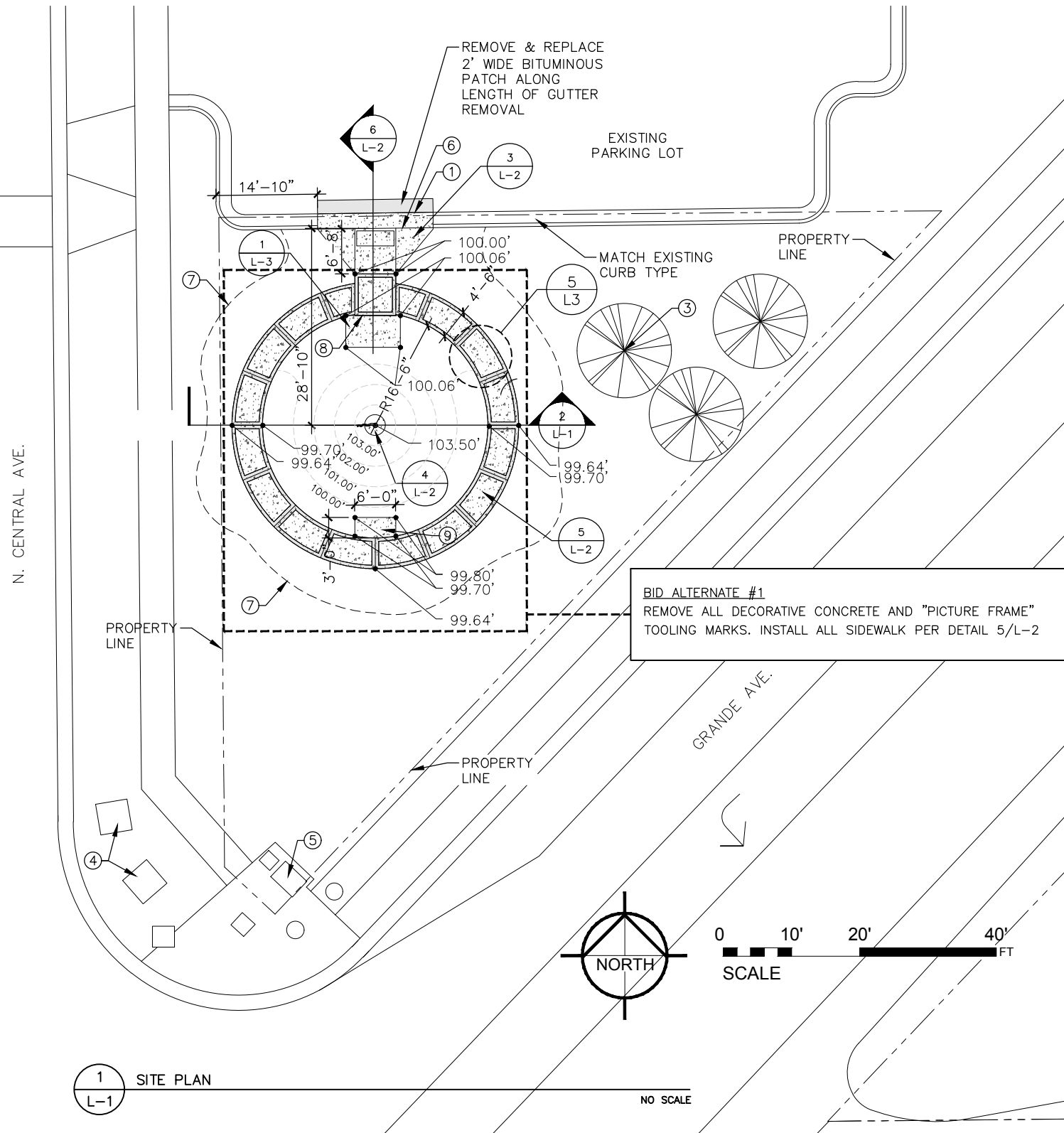
**SOLAR FLAG POLE LIGHT** - FLAGPOLE WAREHOUSE (MODEL ORN-SOL-750105), 40 WATT POLE-MOUNTED SOLAR W/BATTERY, OR APPROVED EQUAL.  
 NOTE: MUST BE SOLAR POWERED DOWNLIGHT, DARK-SKY COMPLIANT (CITY OF DULUTH)

**TURF ESTABLISHMENT** - SOD, TYPE-MINERAL

**GRANITE MONUMENT** - MONUMENT WILL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. ALL GRANITE TO BE MESABI BLACK. SEE DETAILS FOR LETTERING & SIZE.

**STAMPED CONCRETE** - COLOR: NONE  
 PATTERN: FRACTURED EARTH, AS MANUFACTURED BY SCOFIELD ANTI-SLIP: TK-TRI-GRIP NON-SLIP SYNTHETIC AGGREGATE  
 SEALING COMPOUND: TK-BRIGHT KURE & SEAL (2 COATS MIN)  
 APPLY AS INDICATED ON PLAN, PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR TO DEVELOP MOCKUP FOR ACCEPTANCE BY OWNER PRIOR TO ANY WORK.

**CONCRETE MOCKUP** - CONTRACTOR MUST PROVIDE A MOCKUP PANEL OF CONCRETE DEMONSTRATING THE PROPOSED "PICTURE FRAME" DECORATIVE STAMPING, COLOR AND SEALING COMPOUND. MOCKUP SHALL BE 48"X48", FULL DEPTH



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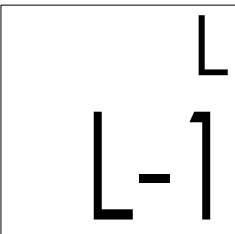


**MEMORIAL PARK  
 WWI VETERANS  
 MEMORIAL**

DULUTH, MINNESOTA  
 PROJECT NO.: 18-029  
 DATE: 25-FEB-2019  
 DRAWN BY: [E]  
 REVISIONS:

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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 [Signature]  
 LEITH JINNEN 50131  
 LANDSCAPE ARCHITECT REG. NO.

**SITE PLAN**

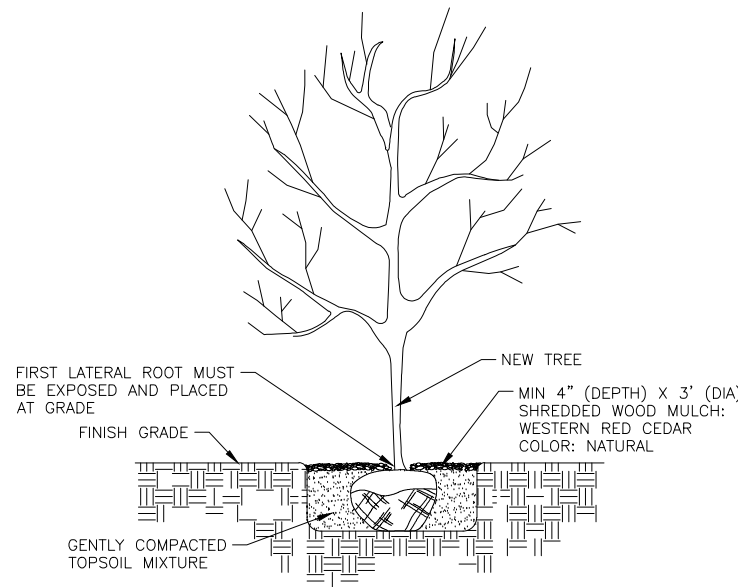


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NOTES:

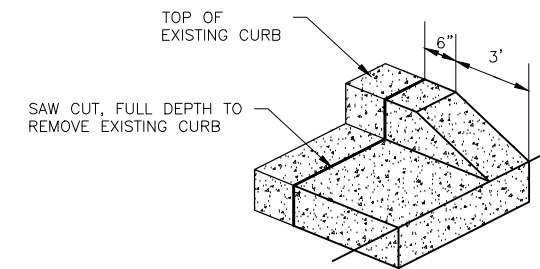
- ① 0" CURB HEIGHT.
- ② FULL CURB HEIGHT.
- ③ 2' FOR 4" HIGH CURB AND 3' FOR 6" HIGH CURB.
- ④ MOUNT SOLAR LIGHT ON TOP OF NEW FLAG POLE.
- ⑤ ALL AGGREGATE BASE TO BE MNDOT CLASS 5, COMPACT TO 100% SPD.
- ⑥ PEDESTRIAN RAMP & LANDING SHALL BE FULLY ADA COMPLIANT IN ACCORDANCE WITH MNDOT STANDARD PLANS 5-297.250. LANDSCAPE ARCHITECT WILL MEASURE SLOPES UPON COMPLETION TO VERIFY COMPLIANCE.

1. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
2. CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMP FROM THE BACK OF CURB.
3. CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN WALKWAY. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.
4. ALL GRADE BREAKS IN WALKWAY SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.
5. TO ENSURE INITIAL RAMP AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY.
6. TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.
7. ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.
8. 4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMP. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER ENTIRE WIDTH OF SHARED-USE PATH AND THE ENTIRE PAR WIDTH OF THE WALK. DETECTABLE WARNING SHOULD BE 6" LESS THAN THE WALKWAY WIDTH.
9. RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB.
10. THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
11. CONTROL JOINTS IN WALK SHOULD BE NO GREATER THAN 6' IN ANY DIRECTION AND EQUALLY SPACED.
12. MOUNT SOLAR LIGHT ON TOP OF NEW FLAG POLE.

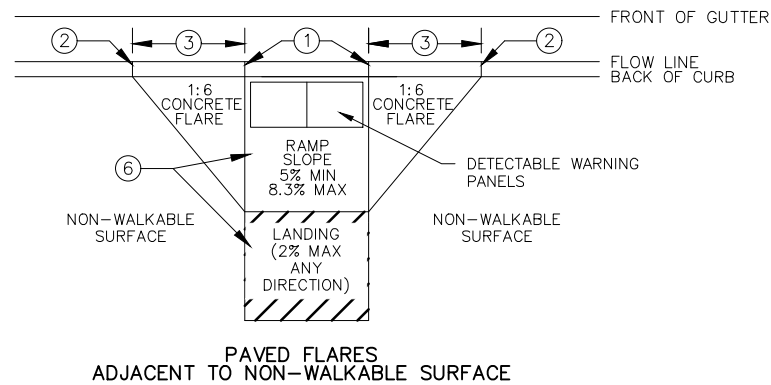


NOTES:  
1. ALL INSTALLED TREES NOT LOCATED IN PLANT BEDS OR MULCHED AREAS SHALL HAVE A 3' DIAMETER RING OF WOOD MULCH AS SPECIFIED.

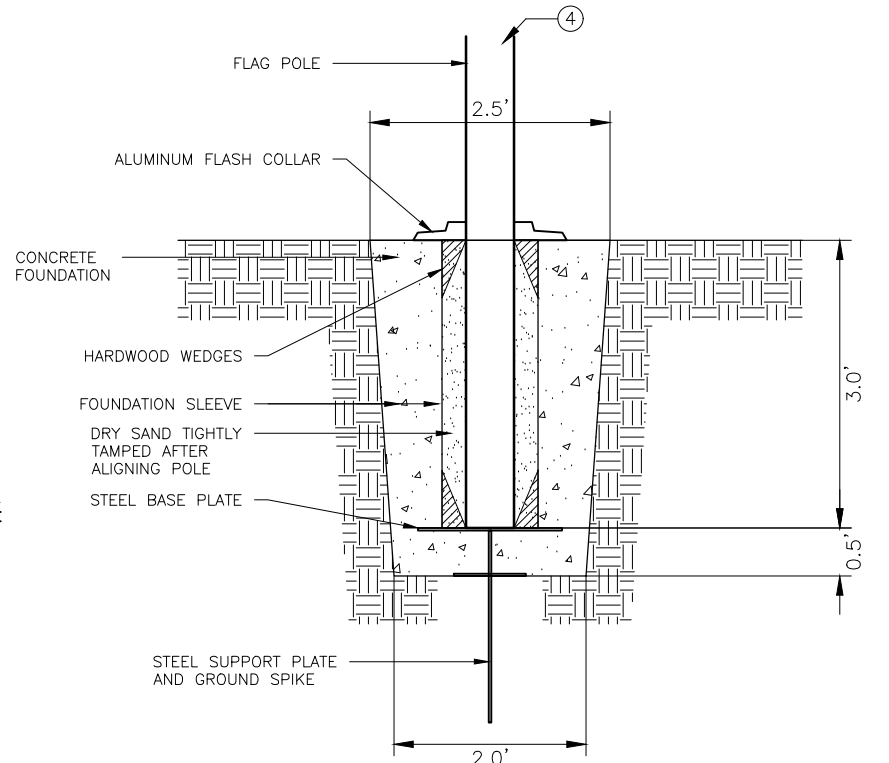
① TREE PLANTING DETAIL  
L-2 NO SCALE



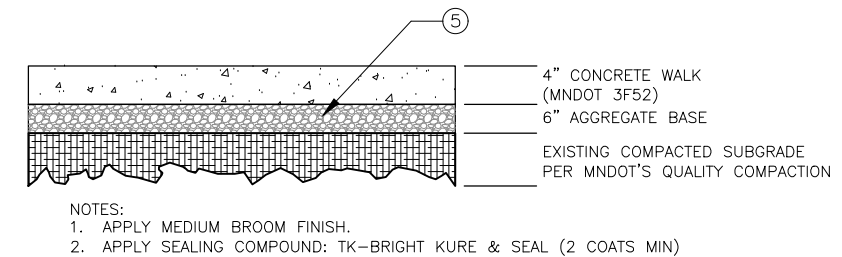
② CURB & GUTTER TAPER  
L-2 NO SCALE



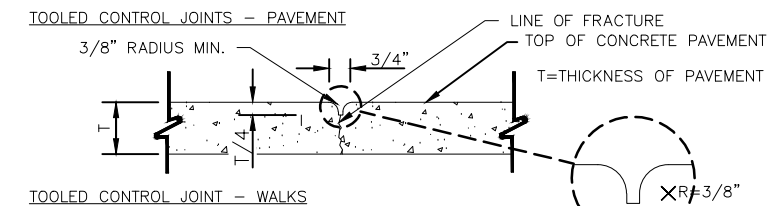
③ HANDICAP RAMP DETAIL  
L-2 NO SCALE



④ FLAGPOLE FOUNDATION  
L-2 NO SCALE

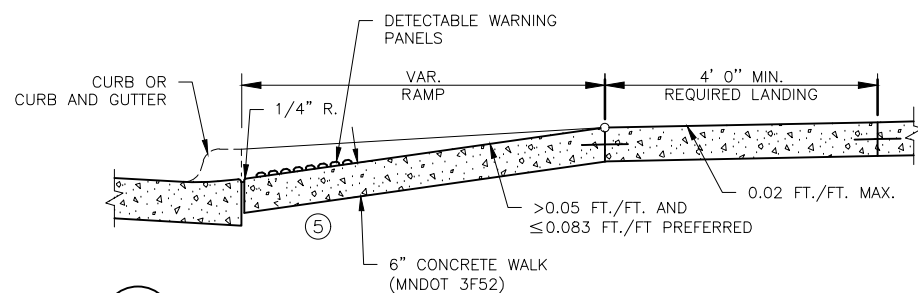


⑤ SIDEWALK TYPICAL SECTION  
L-2 NO SCALE



NOTES:  
1. ALL CONSTRUCTION JOINTS MUST BE TOOLED UNLESS BID ALTERNATE #1 IS SELECTED.  
2. TOOLED JOINTS SHALL BE CONSTRUCTED AT A MINIMUM DEPTH OF ONE INCH BY SCORING WITH A TOOL WHICH WILL LEAVE THE CORNERS ROUNDED AND INSURE A FREE MOVEMENT OF CONCRETE AT THE JOINT.

⑥ TOOLED CONTROL JOINT - WALKS  
L-2 NO SCALE



⑦ HANDICAP RAMP DETAIL  
L-2 NO SCALE

⑦ CONTROL JOINT  
L-2 NO SCALE



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DULUTH, MINNESOTA

PROJECT NO.: 18-029

DATE: 25-FEB-2019

DRAWN BY: [E]

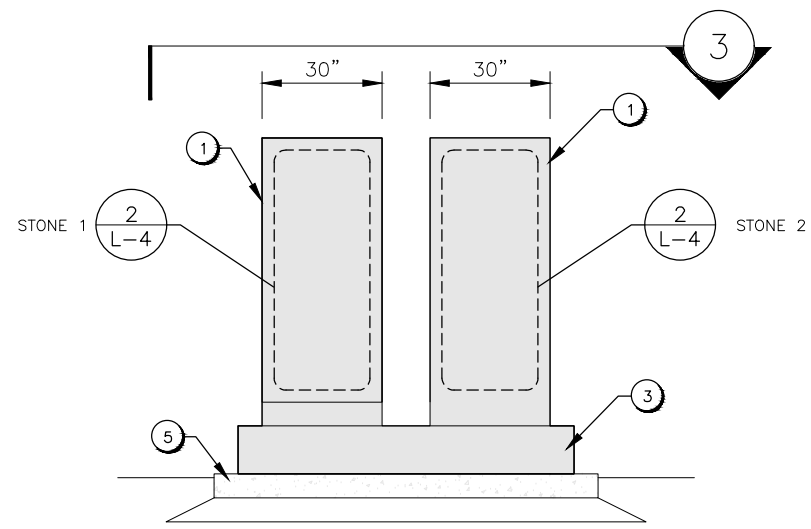
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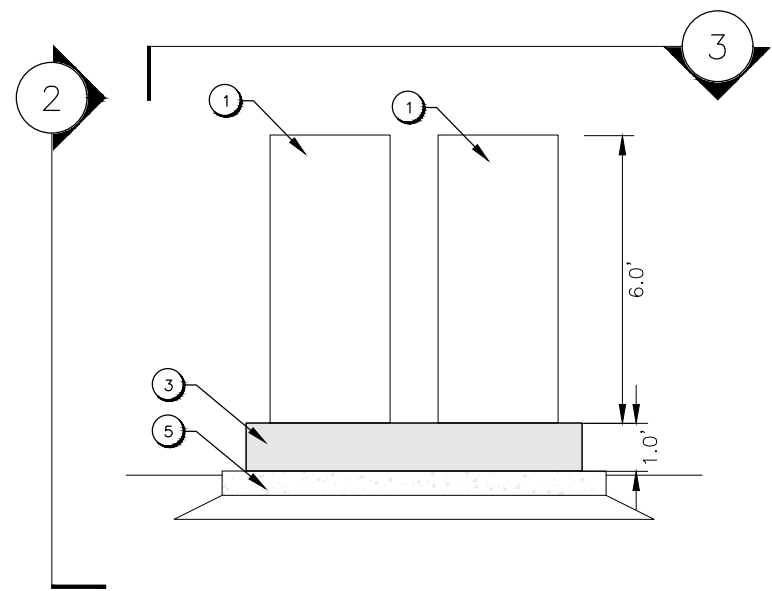
[Signature]  
LEITH JINNEN 50131  
LANDSCAPE ARCHITECT REG. NO.

DETAILS

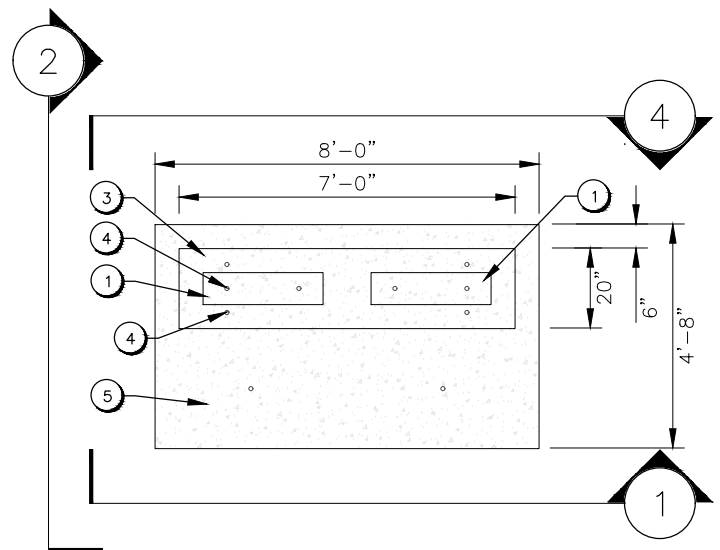
L  
L-2



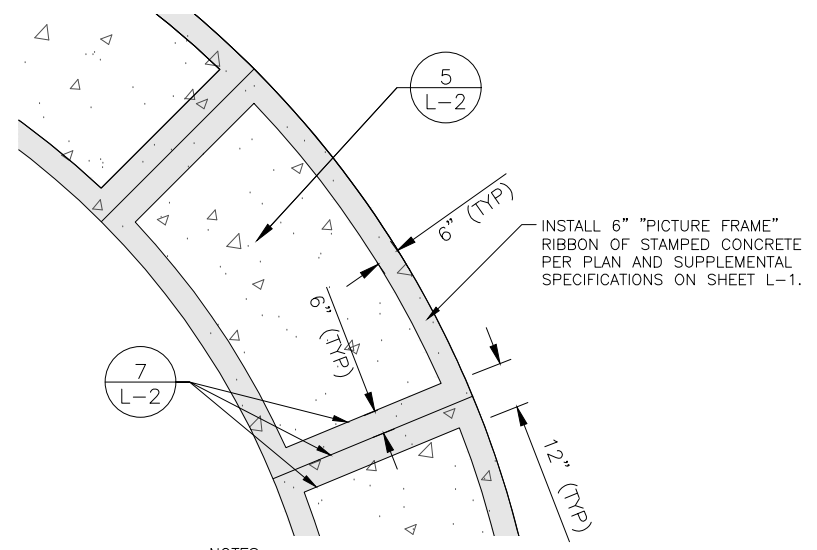
1 MONUMENT DETAIL - FRONT (PINS NOT SHOWN)  
L-3 1/4" = 1'-0"



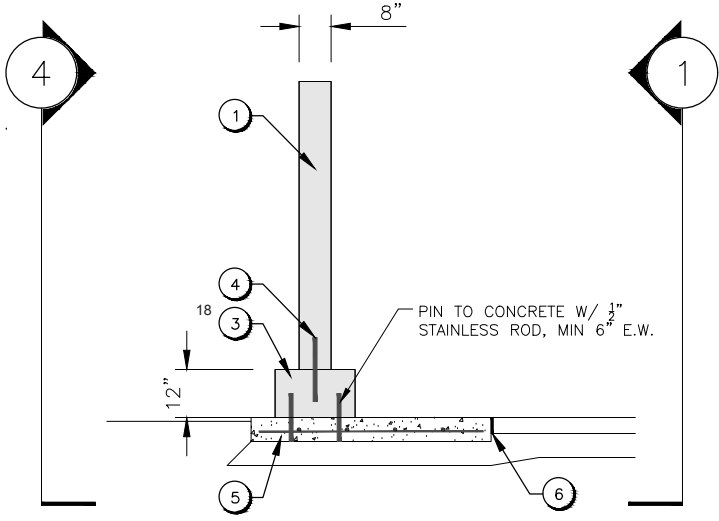
4 MONUMENT DETAIL - BACK (PINS NOT SHOWN)  
L-3 1/4" = 1'-0"



3 MONUMENT DETAIL - TOP  
L-3 1/4" = 1'-0"



5 DECORATIVE CONCRETE - PICTURE FRAME  
L-3 1/4" = 1'-0"



2 MONUMENT DETAIL - SIDE  
L-3 1/4" = 1'-0"

KEYNOTES:

- ① GRANITE MEMORIAL STONE, QTY: 2, COLOR: MESABI BLACK, OR APPROVED EQUAL, FINISH: POLISH, NO TAPER. SEE DETAIL 7/L-3 FOR ENGRAVING.
- ② NOT USED
- ③ GRANITE BASE, QTY: 1, COLOR: MESABI BLACK, OR APPROVED EQUAL, FINISH: POLISH, NO TAPER
- ④ STAINLESS STEEL PINS, 1/2" DIA X MIN 6" E.W. (8" INTO MEMORIAL STONES), PREDRILL HOLE ON SITE AND EPOXY INTO PLACE.
- ⑤ STRUCTURAL SLAB AND BASE; SEE STRUCTURAL SHEET
- ⑥ 1/2" PREFORMED JOINT FILLER PER MNDOT SPEC. 3702.

- NOTES:
- 1. IF ALTERNATE BID #1 IS SELECTED, NO DECORATIVE CONCRETE WILL BE INSTALLED INCLUDING THE ADDITIONAL TOOLING REQUIRED TO ACHIEVE THE "PICTURE FRAME" EFFECT.
  - 2. APPLY SEALING COMPOUND: TK-BRIGHT KURE & SEAL (2 COATS MIN)

INSTALL 6" "PICTURE FRAME" RIBBON OF STAMPED CONCRETE PER PLAN AND SUPPLEMENTAL SPECIFICATIONS ON SHEET L-1.



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MEMORIAL PARK  
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*[Signature]*  
LEITH JINNEN 50131  
LANDSCAPE ARCHITECT REG. NO.

DETAILS

L  
L-3



GENERAL NOTES:

1. LANDSCAPE ARCHITECT AND OWNER WILL PROVIDE FINAL VERBIAGE FOR ALL STONES.
2. LANDSCAPE ARCHITECT AND OWNER WILL PROVIDE ORIGINAL MEMORIAL PLAQUE TO BE FASTENED TO STORY STONE BY CONTRACTOR. FASTENING METHOD TO BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL.
3. ENGRAVE WORDS, AS SHOWN, MUST SUBMIT SHOP DRAWING TO LANDSCAPE ARCHITECT/OWNER FOR APPROVAL PRIOR TO INSTALLATION.
4. CONTRACTOR TO RECOMMEND TEXT SIZES ON MEMORIAL STONES BASED ON SPECIFIED STONE SIZE. SPACING MAY BE INCREASED TO FILL ENTIRE STONE. OWNER MAY ADJUST NUMBER OF COLUMNS. SUBMIT SHOP DRAWING FOR APPROVAL.
5. TEXT TO HAVE MIN 2" MARGIN FROM ANY EDGE OF STONE.
6. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.

STONE 1

LEST WE FORGET  
WORLD WAR I – THE GREAT WAR

1917 ○ 1918

GOLD STAR MEN OF DULUTH, MINNESOTA

*FOREVER IN OUR MEMORY, THEY GAVE THEIR LIVES FOR GOD AND COUNTRY*

FRANK OSCAR ABRAHAMSON  
CARL OLE ALBERTSON\*  
EDWARD PORTER ALEXANDER  
BRYAN WILLIAM ALLEN  
FRANCIS JOSEPH ALLIE\*  
ALFRED JOHN ANDERSON  
JOHN H. ANDRES  
MIKE F. BAGLEY  
LORRENTS BAKKE  
GLENN J. BALL  
CHRISTIAN WILLIAM BAUMGARTEN  
WILLIAM E. BERG  
PHILIP A. BJORLIN  
WILLIAM BODIN  
FRANCIS WILLIAM BOLEN  
VALENTINE BOROWSKI  
ALFORD JOHN BRADFORD  
LOUIS BRANDT  
SOLEM ERIC BROMAN  
LEO ARTHUR BROOKS  
WALLACE ORAB BROWN  
PETER BRUNO\*  
CHARLES CAMPBELL  
OSCAR C. CARLSON  
LEONARD WILLIAM CATO  
J. CHAMBERLAND  
O. H. CHRISTIANSON  
JOHN CHRISTOPHER  
RAULIN HENRY CLARK\*  
JAMES ARTHUR CLOUD  
CHESLEY CLUETT  
ALEX COSGROVE  
E. CROISIER  
FRANK MIKE CULLEN\*  
BENJAMIN DACHYK  
DAVID T. DEPUE  
JAMES DOWNING  
LAWRENCE PATRICK DROHAN  
HARRY DUNLOP  
NAPOLEON DUPREY  
ALBERT AXEL ERICKSON  
CLARENCE E. EVANS  
JOHN FAIRGRIVE, JR.  
CARL TOLEND FEATHER

FRANK LEO FOX\*  
MOZART FREDLAND  
LELAND CHESTER GIDDINGS  
JOHN GIROUX  
HENRY PATRICK GOWAN  
JOHN GRADEN  
ELMER L. GRIFFIN  
HERMAN GULBRANSON  
CHARLES RICHARD GUSTAFSON  
ROBERT H. GUSTAFSON\*  
EDWARD CORNELIUS HAGER  
EARL SARGENT HAIRE  
BERNARD B. HANFORD  
JOHN PROCTOR HANFORD  
HERBERT CONSTANTINUS HANSEN  
TORR HARRIS  
EARL BENJAMIN HEBERT  
EDWARD MORRIS HEDENBERG  
HERBERT ROYAL HELMER  
MICHAEL HESDAL  
JOHN E. HIGGINS  
LOUIS HILL  
AXEL N. HOWALT  
JOSEPH HURVITICH  
FRANK JANNETTA  
EDWARD JARVI  
ALFRED JOHNSON  
ARNOLD WALTER JOHNSON  
AXEL WALTER JOHNSON  
CARL ARTHUR JOHNSON\*  
CONRAD GILBERT JOHNSON  
DAVID EMIL JOHNSON  
FRANK FREDERICK JOHNSON\*  
FRITZ JOHNSON  
HARRY EMIL JOHNSON\*  
LEONARD RICHARD JOHNSON\*  
ROBERT M. JOHNSON  
ANTHONY KAELES  
DAVID KAPLON  
PAUL R. KEEHN  
AMBROSE MANLEY KELLY  
FRED MICHAEL KENNEY  
JOHN KLENCH\*  
MARSHALL L. KNAPP\*

STONE 2

HENRY SCOTT KNOWLTON  
OSCAR F. KOVALA  
ADAM KUCHARSKI  
FRED LA PAGE\*  
MARTIN LARSON  
ALBERT PAUL LA TENDRESSE  
LLOYD ERNEST LE DUC  
RUDOLPH LINDQUIST  
FRANK A. LITTLEFIELD  
EARL BERTRAM LOZWAY  
FRED LUHM  
WILLIAM LUKSHA  
LOUIS MCCAHILL  
ARTHUR W. MCCAULEY  
EDWARD J. MCDERMOTT  
LUTHER MCKAY\*  
FREDERICK THOMAS MCLAIN  
DOUGLAS MCLEAN  
ROBERT MCLENNAN  
JOHN GERRICK MCPHAIL  
KENNETH CAMERON MACINNES  
ANTON MALESKI\*  
NICK C.J. MARION  
FRANS E. MATHANDER  
BERNHARD MATTSO  
OSCAR A. MELANDER  
ARTHUR A. MELLIN  
EDWARD F. METTNER  
WALTER RAYMOND MONETTIE  
PETER MOOK  
IRVING TYLER MOORE  
WILLIAM HOMER MORRISON  
HOWARD W. MORTENSON  
MICHAEL J. MURPHY  
GILBERT WINSFORD NORDMAN  
ERICK OFSTED  
AXEL WILLIAM OLSEN  
JOHN REIDER OLSEN  
ERNEST RUDOLPH OLSON\*  
JOE LEO OSSOWSKI  
DAVID LIVINGSTONE PAGE

ALBIN FERDINAND PALMER  
JOHN PERONE  
CARL WILLIAM PETERSON\*  
HAROLD PETERSON\*  
HELMER A. PETERSON  
HENNING OSCAR PETERSON  
OLAF ERNEST PETERSON  
RUDOLF AXEL PETERSON\*  
ELIA PETERUKA  
CLYDE EDWARD PRUDDEN  
HOWARD C. QUIGLEY  
FRANK REED  
ROLF VIKING RHODE  
ROSS P. RILEY  
CHARLES C. RINGLER  
ALBERT CARL ROBERTSON  
WILLIAM L. ROBIDEAU  
JEFFREY ROPER, SR.  
WILLIAM RUSSELL  
YALMER LEONARD SAARI  
PETER CRESLAY SAGATOWSKI  
CHRIST O. SANDWICK  
JOHN K. SCHULZ  
JAMES ANDREW SHANNON  
THOMAS BURTRUM SHAUGHNESSY  
OTTO CHRISTIAN SMULAND  
FRANK SNIDER  
EDWARD LEON SNYDER\*  
PHILIP A. STEEN  
ALBERT C. STEINER  
JULIUS STROFFEL  
CLARENCE BERNARD SUNDQUIST  
LESLIE SEVERT SWANMAN  
ROY WILBUR THORSTAD  
OLAF UGSTAD\*  
LYDIA VIOLET WHITESIDE  
DAVID GILBERT WISTED  
MIKE JOSEPH ZIMNEY

THE UNKNOWN DEAD – WORLD WAR VETERAN \*

(\*) - DESIGNATES A WEST DULUTH GOLD STAR MAN HONORED IN THE ORIGINAL MEMORIAL

*THEY SHALL NOT GROW OLD, AS WE THAT ARE LEFT GROW OLD.*

*AGE SHALL NOT WEARY THEM, NOR THE YEARS CONDEMN.*

*AT THE GOING DOWN OF THE SUN, AND IN THE MORNING,*

**WE WILL REMEMBER THEM**

- ROBERT BINYON

2  
L-4 MEMORIAL STONES – ENGRAVING

NTS



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MEMORIAL PARK  
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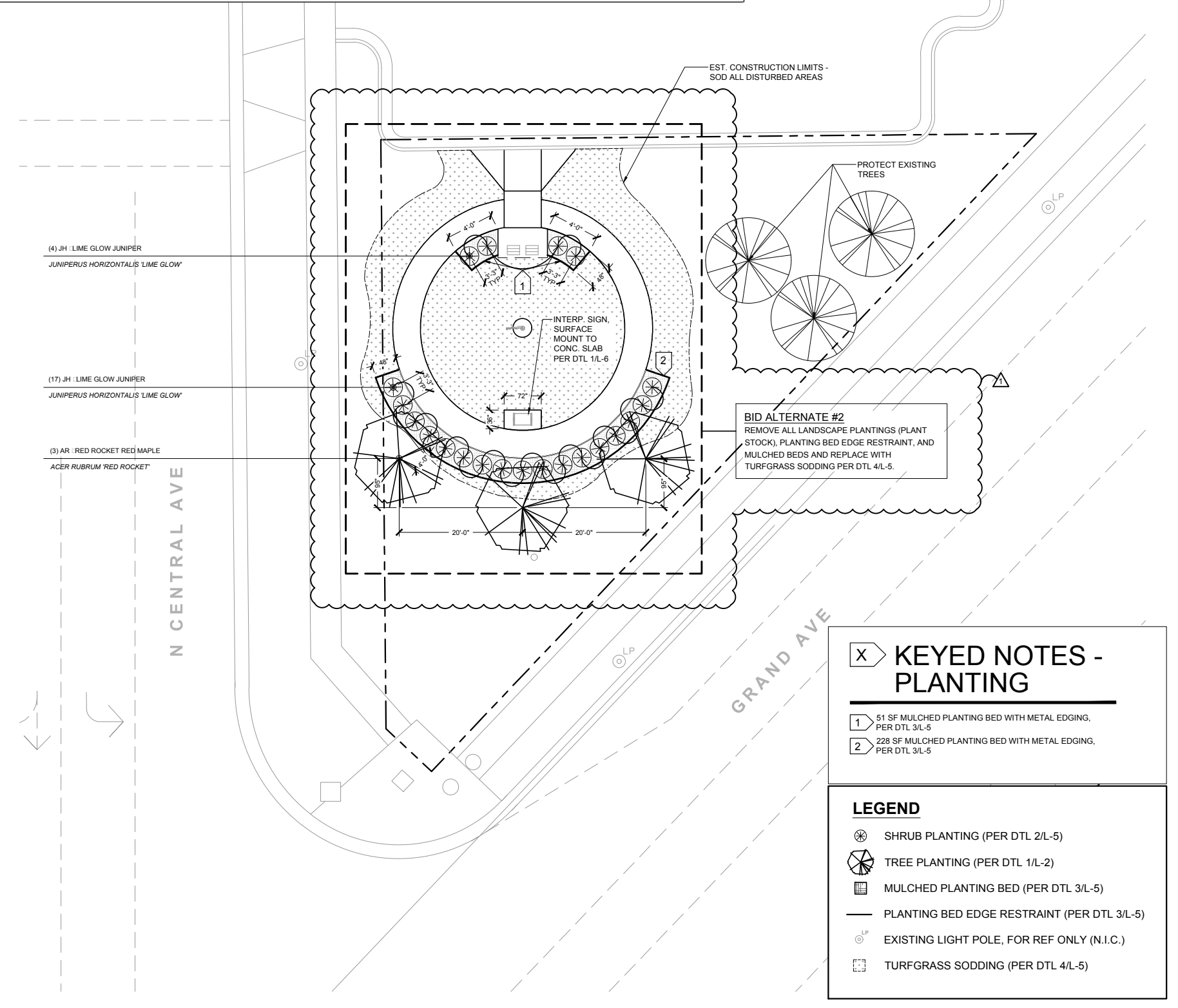
DETAILS

L  
L-4



# PLANT LIST:

ABBR	QTY	UNIT	SCIENTIFIC NAME	COMMON NAME	PLANT TYPE	CONT/ B&B	SIZE	NOTES
AR	3	EA	ACER RUBRUM 'RED ROCKET'	RED ROCKET RED MAPLE	TREE, OVERSTORY	CONT	#20	
JH	21	EA	JUNIPERUS HORIZONTALIS 'LIME GLOW'	LIME GLOW JUNIPER	SHRUB, EVERGREEN	CONT	#5	



**X KEYED NOTES - PLANTING**

1 51 SF MULCHED PLANTING BED WITH METAL EDGING, PER DTL 3/L-5

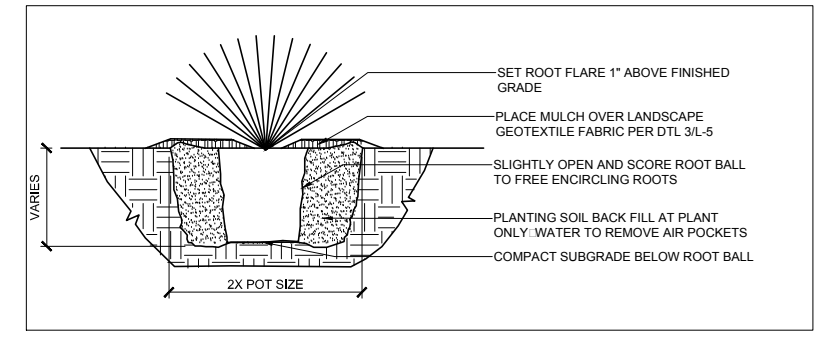
2 228 SF MULCHED PLANTING BED WITH METAL EDGING, PER DTL 3/L-5

**LEGEND**

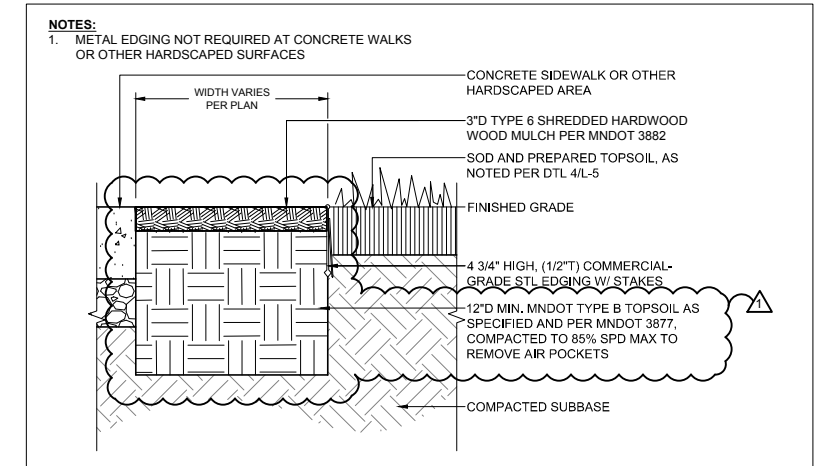
- ⊗ SHRUB PLANTING (PER DTL 2/L-5)
- ⊗ TREE PLANTING (PER DTL 1/L-2)
- MULCHED PLANTING BED (PER DTL 3/L-5)
- PLANTING BED EDGE RESTRAINT (PER DTL 3/L-5)
- ⊙ LP EXISTING LIGHT POLE, FOR REF ONLY (N.I.C.)
- ▨ TURFGRASS SODDING (PER DTL 4/L-5)

## LANDSCAPE CONSTRUCTION NOTES:

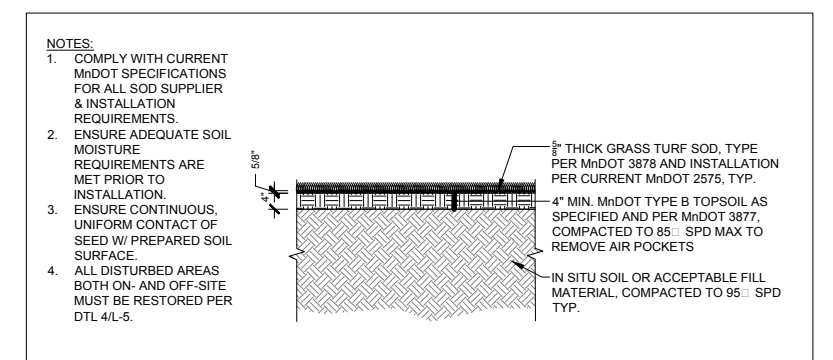
- CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, PRIVATE & PUBLIC, BEFORE COMMENCING WORK. CONTACT GOPHER STATE ONE CALL AT 1-800-252-1166. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- SEE ALSO SITE PLAN AND NOTES ON L-1 FOR SODDING REQUIREMENTS.
- CONTRACTOR SHALL LOOSEN ANY COMPACTED SUBGRADES PRIOR TO PLACING TOPSOIL TO A MINIMUM DEPTH OF 4". PROOF ROLL ANY SUBGRADES TO PREVENT SETTLING TO PROJECT SPECIFICATIONS OR 95% SPD MAX.
- LANDSCAPE CONTRACTOR SHALL IMPORT CLEAN TOPSOIL FREE OF WEEDS, RHIZOMES, ROCKS, STICKS AND OTHER DELETERIOUS MATERIAL AS REQUIRED. CONTRACTOR SHALL BRING TO FINISH GRADE WITH 4" OF TOPSOIL IN ALL LAWN AREAS.
- LANDSCAPE CONTRACTOR SHALL REMOVE SOD, CONTAMINATED SOILS, MISCELLANEOUS WASTE MATERIALS FROM AREAS TO BE PLANTED AND SODDED. CONTRACTOR SHALL LOOSEN COMPACTED SUBSOILS BY TILLING AND IMPORT NEW TOPSOIL AS REQUIRED TO RESTORE GRADES AND MAINTAIN POSITIVE DRAINAGE AWAY FROM THE FLAGPOLE AND ACROSS THE SITE. VERIFY FINAL LIMITS OF AREAS WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING OPERATIONS.
- ALL PLANT MATERIALS AND SOD TO BE INSTALLED PER PLANTING DETAILS AND PROJECT SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS ON- AND OFF-SITE. RESTORE ALL DISTURBED AREAS WITH TOPSOIL AND SOD PER DTL 4/L-5 AND PER SHEETS G-1 AND L-1.



**SHRUB PLANTING DETAIL** 2 L-5  
NOT TO SCALE



**MULCHED PLANTING BEDS DETAIL** 3 L-5  
NOT TO SCALE



**TURFGRASS SODDING** 4 L-5  
SCALE

**LANDSCAPE PLAN**  
SCALE



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## MEMORIAL PARK WWI VETERANS MEMORIAL

DULUTH, MINNESOTA

PROJECT NO.: 18-029

DATE: 21-AUG-2018

DRAWN BY: AMW

REVISIONS:  
RE-ISSUE REVISION #1:  
FEB 25, 2019

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ANDREA WEDUL  
LANDSCAPE ARCHITECT  
REG. NO. 52284

## LANDSCAPE PLAN

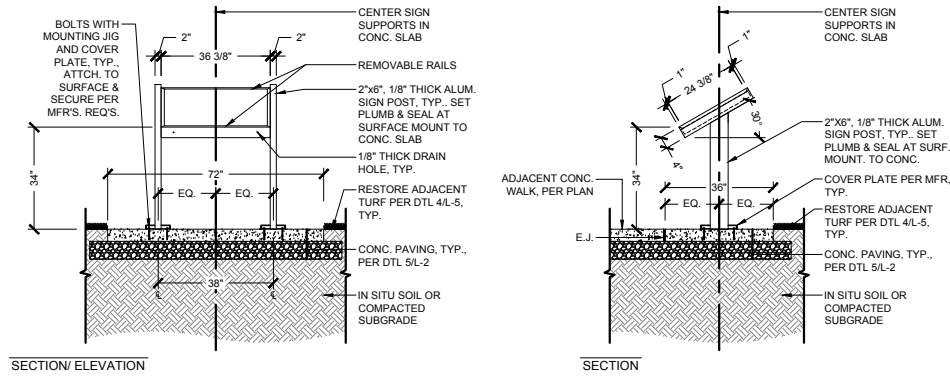
L  
L-5

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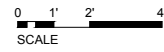
**NOTES:**

1. ALL COMPONENTS MADE FROM EXTRUDED ALUMINUM AND WELDED ALUMINUM BACK PLATE
2. EDGES OF ALL ALUMINUM COMPONENTS SHALL HAVE A RADIUS OF 1/8"
3. MANUFACTURER'S BLACK POWDER COAT FINISH ON MAIN UNIT AND ALL COMPONENTS AND APPURTENANCES.
4. FRAME FOR A COMPLETE INSTALLATION SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
5. GRAPHIC PANEL SHALL BE FURNISHED AND INSTALLED BY OWNER.
6. CONTACT OWNER FOR DIRECTION IF UTILITIES OR OTHER OBSTRUCTIONS ARE ENCOUNTERED DURING INSTALLATION WHICH LIMIT THE DEPTH OF FOOTINGS OR AFFECT THE LAYOUT PROVIDED.
7. SIGN(S) SHALL BE MOUNTED AT HEIGHT INDICATED HEREIN TO MEET CURRENT MN ACCESSIBILITY CODE.

GRAPHIC SIGN PANEL SHALL BE PROVIDED CITY OF DULUTH. SIGN FRAME STRUCTURE SHALL BE BASED ON LOW PROFILE, TRADITIONAL IN-GROUND MOUNT ALUMINUM EXHIBIT DISPLAY STRUCTURES, AS MANUFACTURED BY:  
 HOPEWELL MANUFACTURING INC.  
 217 N FRANKLIN ST.  
 WAYNESBORO, PA 17268  
 WWW.HOPEWELLMFG.COM  
 AS EQUAL SUBSTITUTION FOR NOTED SIGN FRAME SHALL BE ONLY PER PRIOR APPROVAL BY THE CITY OF DULUTH. CONTRACTOR TO FURNISH AND INSTALL SIGN FRAME STRUCTURE. CONTRACTOR TO COORDINATE WITH CITY OF DULUTH FOR MATERIAL DELIVERY IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE.



**INTERPRETIVE SIGN W/ FOOTING (1 REQ'D.)**



1  
L-6



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*Andrea Wedul*  
 ANDREA WEDUL  
 LANDSCAPE ARCHITECT  
 52264  
 REG. NO.

**LANDSCAPE  
 DETAILS**

L  
 L-6

**BUILDING CODE**

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES AND STANDARDS AND ARE REFERENCED BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN.

**APPLICABLE CODES AND STANDARDS**

BUILDING CODE INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION, INCLUDING THE STATE OF MINNESOTA BUILDING CODE AMENDMENTS.

ACI 318 AMERICAN CONCRETE INSTITUTE, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" 2011 EDITION

ASCE 7 AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", 2010 EDITION

**CONCRETE**

- MIXING, BATCHING, TRANSPORTING, PLACING, AND CURING OF ALL CONCRETE, AND SELECTION OF CONCRETE MATERIALS, SHALL CONFORM TO ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS NOTED BELOW. PROPORTIONS OF AGGREGATE TO CEMENTITIOUS PASTE SHALL BE SUCH AS TO PRODUCE A DENSE, WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER.
- ALL CONCRETE USED IN HORIZONTAL SURFACES EXPOSED TO THE WEATHER SHALL CONTAIN AN ACCEPTABLE ADMIXTURE TO PRODUCE AIR-ENTRAINED CONCRETE WITH TOTAL AIR CONTENT, AS NOTED IN THE CONCRETE MIX SPECIFICATION TABLE. TOLERANCE FOR AIR CONTENT SHALL BE +1 PERCENT. AIR CONTENT SHALL BE MEASURED AT THE DISCHARGE OF THE TRUCK. IF CONCRETE IS PUMPED, AIR CONTENT SHALL BE MEASURED AT THE DISCHARGE END OF THE PUMP LINE. TESTS FOR AIR CONTENT SHALL MEET ASTM C172 REQUIREMENTS.
- MIX DESIGNS LISTED BELOW SHALL BE SUBMITTED TO THE ARCHITECT AND APPROVED PRIOR TO USE. SUBMITTALS SHALL INCLUDE TEST DATA THAT CONFIRMS THE STRENGTH OF EACH MIX PER ACI 318 CHAPTER 5. SELECTION OF CONCRETE MIX PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 301. MIX PROPORTIONS SHALL MEET OR EXCEED THE REQUIREMENTS LISTED BELOW FOR THE LOCATIONS NOTED. THE MORE STRINGENT OF THE REQUIREMENTS LISTED SHALL GOVERN.
- MAXIMUM SIZE OF AGGREGATE SHALL BE AS LISTED BELOW. MAXIMUM FLY ASH AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL SHALL BE 25 PERCENT. FLY ASH SHALL BE CLASS C OR F, MEETING ASTM C618 REQUIREMENTS. WATER/CEMENT RATIO SHALL BE BASED ON TOTAL CEMENTITIOUS MATERIAL, INCLUDING FLY ASH AND OTHER POZZOLANIC MATERIALS.
- THE CONTRACTOR SHALL DETERMINE SLUMP. EACH CONCRETE MIX SUBMITTED SHALL HAVE THE SLUMP SPECIFIED. SLUMP SHALL BE MEASURED AT THE DISCHARGE OF THE TRUCK. IF CONCRETE IS PUMPED, SLUMP SHALL BE MEASURED AT THE DISCHARGE END OF THE PUMP LINE. SLUMPS SHALL BE WITHIN +1 INCH AND -2 INCHES OF THE SPECIFIED SLUMP.
- THE USE OF SUPER PLASTICIZERS AND WATER REDUCERS IS ALLOWED, BUT NOT REQUIRED. ALL ADMIXTURES SHALL BE CHLORIDE FREE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

**CONCRETE MIX DESIGN TABLE**

LOCATION	f <sub>c</sub> ' (PSI)	TEST AGE (DAYS)	MAX WC RATIO	AIR CONTENT (%)	MAX. AGGREGATE SIZE
EXTERIOR SLABS ON GRADE	4,500	28	0.45	6.0	1"

**REINFORCING STEEL**

- ALL REINFORCING SHALL BE NEW BILLET STOCK ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. BARS SHALL BE SECURELY TIED IN PLACE WITH #16 DOUBLE-ANNEALED IRON WIRE. BARS SHALL BE SUPPORTED ON ACCEPTABLE CHAIRS. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES. CONTRACTOR SHALL COORDINATE REINFORCING STEEL PLACEMENT DETAILS AND PROVIDE TEMPLATES FOR PLACING STEEL IN CONGESTED AREAS AS NECESSARY. SHOP DRAWINGS (INCLUDING PLACING PLANS AND ELEVATIONS) SHALL BE SUBMITTED TO, AND REVIEWED BY, THE ARCHITECT/ENGINEER BEFORE STARTING FABRICATION.
- NO REINFORCING BARS SHALL BE SPLICED BY WELDING. AT THE CONTRACTOR'S OPTION, MECHANICAL BUTT SPLICING USING AN EXOTHERMIC WELDING PROCESS AND HIGH-STRENGTH SLEEVES OR MECHANICAL CONNECTION SPLICING MAY BE USED, PROVIDED THAT THE MECHANICAL SPLICES SHALL HAVE A CURRENT ICC-ES REPORT DEMONSTRATING THAT THE PRODUCT CAN ACHIEVE A MINIMUM TENSILE STRENGTH OF 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR. SPLICE DEVICES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. REINFORCING BARS SHALL BE LAP SPLICED FOR TENSION (LSB) UNLESS NOTED OTHERWISE ON THE DRAWINGS. #14 AND #18 BARS SHALL BE SPLICED USING MECHANICAL COUPLINGS TO SPLICED BARS REGARDLESS OF SIZE. ACCEPTABLE COUPLINGS ARE BAR-LOCK REINFORCING STEEL COUPLERS (ICC-ES ER-2495) OR BPI-GRIP REINFORCING STEEL COUPLERS (ICC-ES ER-2299). #14 AND #18 BARS SHALL NOT BE LAP SPLICED.
- WELDING OR TACK WELDING OF REINFORCING BARS TO OTHER BARS OR TO PLATES, ANGLES, ETC. IS PROHIBITED, EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. WHERE WELDING IS APPROVED, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E9018 OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.4.
- MINIMUM CAST-IN-PLACE CONCRETE COVER OVER REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: ALL SIZES: 3 INCHES
  - CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BAR OR SMALLER: 1 1/2 INCHES #6 BAR OR LARGER: 2 INCHES

**FOUNDATIONS**

- COLUMN DOWELS SHALL BE INSTALLED WITH A TEMPLATE TO HOLD BARS IN THE PROPER POSITION AND SHALL BE PLACED WITH A TOLERANCE OF +/- 1/4 INCH.
- SPREAD FOOTINGS:
  - DESIGN SOIL BEARING PRESSURE = 1,500 PSF.
  - ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL AND SHALL BE LOWERED TO FIRM BEARING IF SUITABLE SOIL IS NOT FOUND AT ELEVATIONS DETERMINED BY TOP OF FOOTING ELEVATION AND FOOTING DEPTH.
  - WE RECOMMEND SOIL BORINGS BE PERFORMED PRIOR TO COMMENCING FOUNDATION PAD WORK.

**STRUCTURAL FILL**

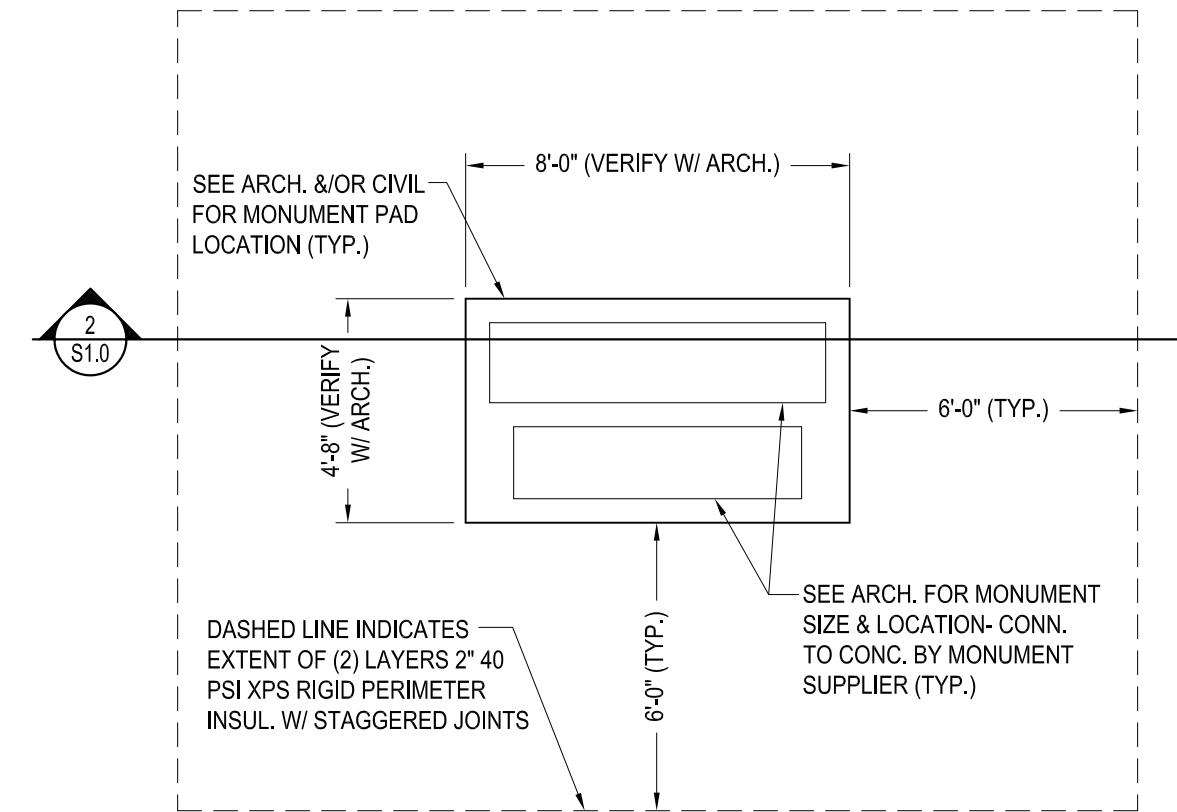
- ALL FILL PLACED TO SUPPORT SLABS ON GRADE, BEHIND PERMANENT WALLS, AND AROUND ALL DRAINS SHALL CONSIST OF WELL-GRADED, GRANULAR MATERIAL PER THE SPECIFICATIONS.
- SOILS FOR STRUCTURAL FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
- STRUCTURAL FILL SHALL BE PLACED ON SOUND NATIVE MATERIAL.
- PROOF-ROLL CUT AREAS WHICH PROVIDE SUPPORT FOR PERMANENT STRUCTURES.
- AREAS WHICH ARE EXCESSIVELY YIELDING, AS DETERMINED BY THE CONTINUOUS OBSERVATION OF THE GEOTECHNICAL ENGINEER, SHALL BE OVEREXCAVATED AND REPLACED WITH STRUCTURAL FILL.
- STRUCTURAL FILL SHALL BE PLACED PER THE SPECIFICATION.

**SPECIAL INSPECTION**

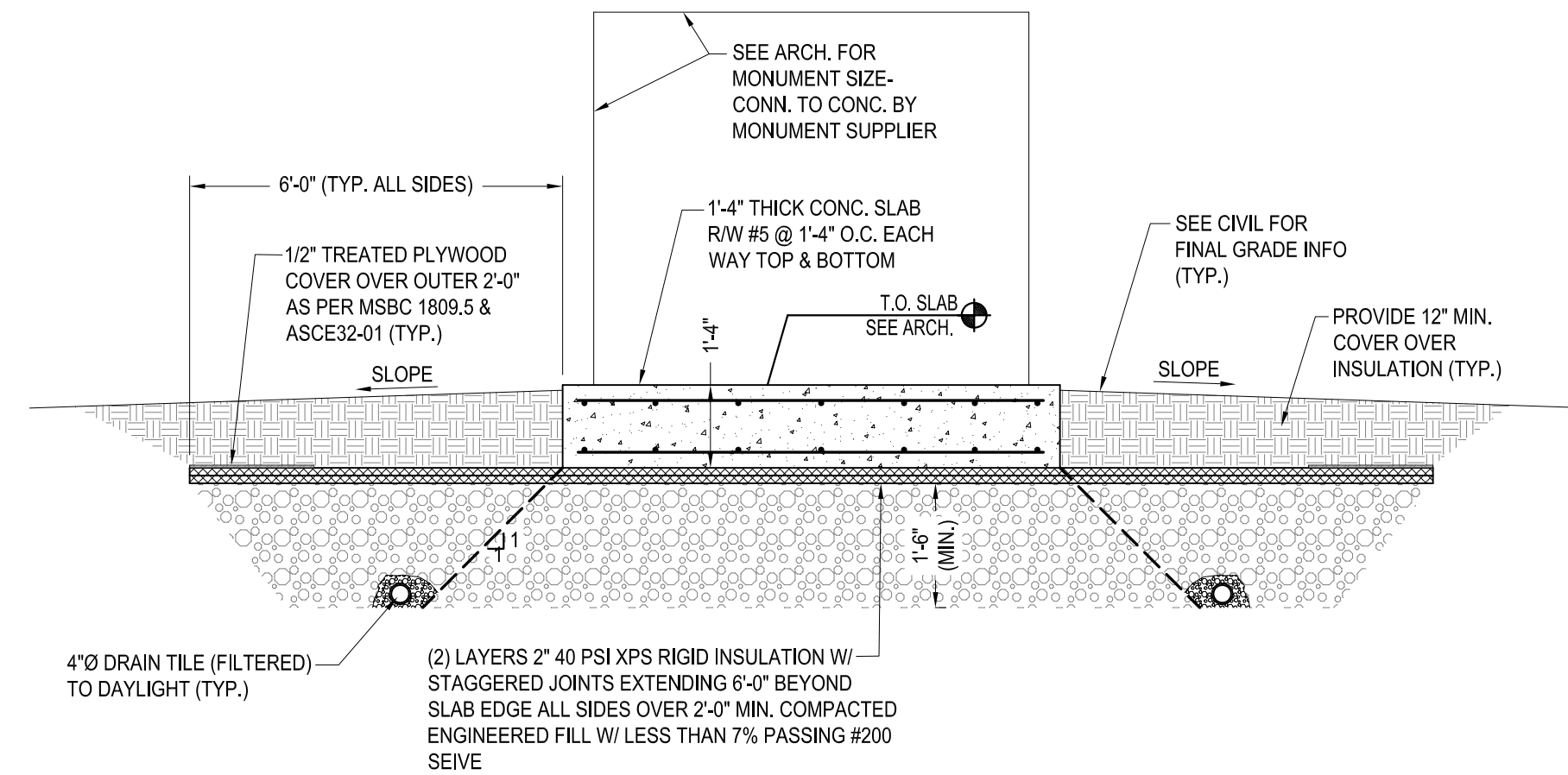
- THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION AND TESTING PER IBC SECTION 1704.
- THIS WORK SHALL BE PERFORMED BY A SPECIAL INSPECTOR CERTIFIED BY THE GOVERNING BUILDING OFFICIAL TO PERFORM THE TYPES OF INSPECTIONS AND TESTS SPECIFIED.
- THE FREQUENCY OF INSPECTIONS AND TESTING SHALL BE AS OUTLINED IN THE IBC TABLE ITEMS LISTED BELOW.
- DEFICIENCIES SHALL BE REPORTED DAILY TO THE CONTRACTOR.
- SUMMARY REPORTS SHALL BE DISTRIBUTED WEEKLY TO THE OWNER, ARCHITECT, CONTRACTOR, BUILDING OFFICIAL, AND STRUCTURAL ENGINEER. THE CONCRETE SUPPLIER SHALL BE INCLUDED IN THE DISTRIBUTION OF ALL SUMMARY REPORTS FOR CONCRETE TESTING.
- SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION AND TESTING.

**SPECIAL INSPECTION TABLE**

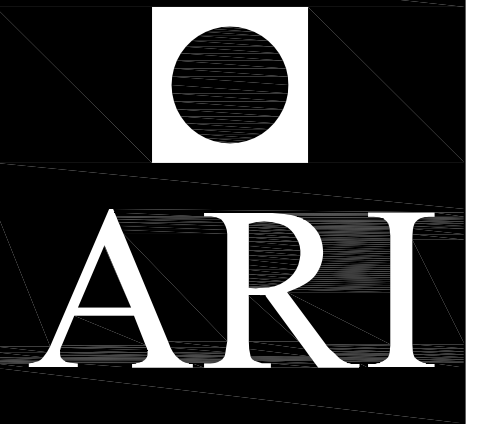
ITEM	DESCRIPTION (SEE IBC SECTS. 1704 & 1705)	IBC REQUIREMENT
CONCRETE	CONCRETE THAT IS PART OF THE STRUCTURE	TABLE 1705.3 ITEMS 4, 5, 6, 7, 8, 10, AND 12
REINFORCING STEEL	A. PLACEMENT OF REINFORCING STEEL B. SPLICING OF REINFORCING STEEL BY BUTT WELDING, EXOTHERMIC WELDING PROCESS OR THREADED COUPLERS	TABLE 1705.3 ITEM 1 TABLE 1705.2.2 ITEM 2b
SOILS, SPECIAL GRADING, EXCAVATION AND FILLING	A. FOUNDATION EXCAVATIONS AND BEARING STRATA B. TESTING, PREPARATION, PLACEMENT, AND COMPACTION	TABLE 1705.6 ITEMS 1 AND 2 TABLE 1705.6 ITEMS 3, 4, AND 5



**1 S1.0 MONUMENT SIGN FOUNDATION PAD PLAN**  
1/4"=1'-0"



**2 S1.0 MONUMENT SIGN FOUNDATION PAD SECTION**  
3/8"=1'-0"



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WWI VETERANS  
MEMORIAL**

DULUTH, MINNESOTA

ARI PROJECT NO. 18-029  
NCE PROJECT NO. 18-545

DATE 11-SEPT-2018

DRAWN GDB

REVISIONS

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.

*Mark R. Udd*  
MARK R. UDD 40443  
ENGINEER REG. NO.

GENERAL NOTES  
FOUNDATION PLAN  
FOUNDATION SECTION

Sheet 1 of 1

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1.0