

### GENERAL NOTES

- SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS, OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, THE
- CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER & ENGINEER.
- 2. A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL TIMES BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS.
- 3. CHANGES TO APPROVED PLANS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER AND ENGINEER.
- 4. CHANGES TO APPROVED PLANS ON PUBLIC PROPERTY SHALL NOT BE MADE
- WITHOUT WRITTEN APPROVAL FROM THE RESPECTIVE PUBLIC ENTITY. 5. ALL SITE AND RIGHT-OF-WAY CONSTRUCTION SHALL MEET CLAY COUNTY STANDARD SPECIFICATIONS LATEST REVISION. IN THE CASE OF A DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING & VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION & IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT THE LOCAL ONE-CALL SYSTEM AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 7. ANY WORK ON EXISTING PRIVATELY OWNED UTILITIES SHALL REQUIRE NOTIFICATION TO THE RESPECTIVE ENTITY BY THE CONTRACTOR 24 HOURS PRIOR TO COMMENCING WORK.
- 8. THE CONTRACTOR SHALL COMPLY WITH ALL RULES & REGULATIONS OF FEDERAL, STATE, COUNTY, & LOCAL AUTHORITIES.
- 9. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE, AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
- 10. CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS FOR CONSTRUCTION HAVE BEEN OBTAINED, ALL BONDS ARE POSTED, ALL FEES ARE PAID AND PROOF OF INSURANCE IS PROVIDED PRIOR TO THE START OF THE PROJECT.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY AND RELATED COSTS.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER OWN MEASUREMENTS AND QUANTITIES. ENGINEER QUANTITIES ARE ESTIMATES ONLY.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF UNDERGROUND UTILITIES BY THE APPROPRIATE UTILITY ENTITY. PROPER COORDINATION WITH THE RESPECTIVE UTILITY ENTITIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY ENTITY STANDARDS FOR MATERIAL AND METHODS ARE MET. THE GENERAL CONTRACTOR SHALL OVERSEE INSTALLATION OF UTILITIES AND COORDINATE WITH ALL SUBCONTRACTORS TO AVOID CONFLICTS.
- 14. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES. 15. THE CONTRACTOR SHALL PROVIDE TESTING, INSPECTIONS, AS-BUILT DRAWINGS,
- CERTIFICATIONS AND ANY OTHER PROCEDURES OR DOCUMENTATION REQUIRED BY THE GOVERNING AGENCIES TO CLOSE OUT THE PROJECT.
- 16. THE CONTRACTOR SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS SIDEWALKS, LANDSCAPED ARES, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER/JURISDICTIONAL AUTHORITY.
- 17. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL STRIPPING, RUBBISH, TRASH, DEBRIS, ORGANIC, AND EXCESS EXCAVATED MATERIAL IN A LAWFUL MANNER.
- 18. CONTRACTOR SHALL REFERENCE THE PROJECT GEOTECHNICAL REPORT AVAILABLE IN THE PROJECT MANUAL AND COMPLY WITH ALL REPORT REQUIREMENTS. IF A CONFLICT ARISES BETWEEN THE GEOTECHNICAL REPORT AND CIVIL DOCUMENTS, THE GEOTECHNICAL REPORT SHALL GOVERN.
- 19. FOR THE PURPOSES OF CONSTRUCTION SURVEY, ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH STRUCTURAL AND ARCHITECTURAL PLANS.

#### GRADING NOTES:

- 1. LOCATION AND TOP ELEVATIONS OF STRUCTURES MAY NEED TO BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL NOTE ANY CHANGES IN AS-BUILT DRAWINGS.
- 2. IF UNSUITABLE SUBGRADE MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT (FROM OFF-SITE BORROW MATERIAL) OF ALL UNSUITABLE MATERIAL TO CLASSIFIED AS MH, CH, OH, OL AND PEAT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, UNLESS APPROVED IN WRITING BY THE PROJECT GEOTECHNICAL ENGINEER. THE SITE ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY UPON ENCOUNTERING UNSUITABLE SUBGRADE MATERIAL
- 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATIONS AND GRADING INCLUDING FURNISHING OFF-SITE BORROW AND DISPOSING OF EXCESS MATERIAL AS REQUIRED TO MEET PLAN GRADES. OFF SITE BORROW SHALL MEET ALL REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT (IF AVAILABLE) OR PER CLAY COUNTY STANDARD SPECIFICATIONS.
- 4. COMPACTION LIFTS AND TESTING SHALL BE PER CLAY COUNTY REQUIREMENTS IN TRENCHING, SUB-BASE, BASE, AND PAVING MATERIALS. SUB-BASE LIFTS SHALL NOT EXCEED 12". BASE LIFTS SHALL NOT EXCEED 6".
- 5. CONTRACTOR SHALL UNIFORMLY GRADE TO MATCH EXISTING GRADES AT PROPERTY LINES.
- 6. GRADE TO ENSURE POSITIVE DRAINAGE. ALL FINISHED SURFACES SHALL BE FREE FROM SURFACE IRREGULARITIES.

#### PAVING NOTES:

- 1. ALL PAVEMENT SECTION MATERIALS AND INSTALLATION SHALL MEET THE
- REQUIREMENTS OF CLAY COUNTY.
- 2. AGGREGATE BASE COURSE SHALL MEET THE REQUIREMENTS OF MNDOT.
- STORM SEWER & DRAINAGE NOTES: CMP PIPE SHALL BE SPIRAL RIB 16 GA POLYMERIC COATED OR 12 GA
- ALUMINIZED.
- HDPE PIPE SHALL BE ADS N12 OR PRINSCO GOLDFLO OR APPROVED EQUAL INVERTS SHOWN ON PLAN DRAWINGS ARE PIPE INVERTS UNLESS NOTED OTHERWISE. 4. ANY SUBSTITUTION FOR MATERIALS OR PROCEDURES MUST HAVE PRIOR WRITTEN
- APPROVAL OF THE COUNTY AND THE PROJECT ENGINEER.

- EROSION & SEDIMENT CONTROL / SWPPP NOTES 1. IF THE LAND BOUNDARY DENOTED ON THE PLANS ENCOMPASSES MORE THAN 1 ACRE, A NOTICE OF INTENT TO OBTAIN A STORM WATER POLLUTION CONTROL PERMIT SHALL BE ACQUIRED BY THE CONTRACTOR AND OWNER FROM THE MINNESOTA POLLUTION CONTROL AGENCY 7 DAYS PRIOR TO CONSTRUCTION. THIS NOTICE OF INTENT SHALL BE PROVIDED WITH THE BUILDING PERMIT APPLICATION. CONTRACTOR IS RESPONSIBLE FOR NOI & SWPPP SUBMITTAL.
- 2. COPY OF NOI, COVERAGE LETTER FROM THE DOH AS WELL AS ALL MAINTENANCE AND INSPECTION RECORDS TO BE KEPT ON SITE AND AVAILABLE FOR REVIEW BY CITY, STATE OR FEDERAL OFFICIALS UPON REQUEST.
- 3. CONTRACTOR SHALL HAVE AN UPDATED SWPPP AVAILABLE ON SITE ANYTIME WORK IS BEING DONE. THIS DOCUMENT SHALL BE AVAILABLE FOR REVIEW BY CITY, STATE OR FEDERAL OFFICIALS UPON REQUEST. THE SWPPP SHALL BE IN ACCORDANCE WITH THE MINNESOTA GENERAL PERMIT NO. MNR100001 AND THE PLANS. THE ESC PLAN IS THE ENGINEER'S RECOMMENDATION FOR EROSION AND SEDIMENT CONTROL BASED ON THE DESIGN OF THE PROPOSED SITE. THIS DESIGN DOES NOT TAKE INTO EFFECT CONTRACTOR MEANS AND METHODS, CONSTRUCTION SCHEDULE, OR ORDER OF OPERATIONS. CONTRACTOR IS EXPECTED TO ADJUST DESIGN AS IS NECESSARY TO MEET THE REQUIREMENTS OF THE GENERAL PERMIT.
- 4. CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL ON THE SITE. THIS INCLUDES BUT IS NOT LIMITED TO STORM WATER EROSION, EROSION FROM PUMPING OPERATIONS, OFF SITE TRACKING, DUST CONTROL AND CONTROL OF ANY CONCRETE GRINDINGS OR SAW CUT DUST. CONTRACTOR IS ALSO RESPONSIBLE FOR ALL OTHER ITEMS AS REQUIRED IN THE GENERAL PERMIT.
- 5. INSPECTIONS SHALL BE DONE AND DOCUMENTED BY THE CONTRACTOR EVERY 14 DAYS AND AFTER AN RAIN EVENT 1/4" OR GREATER. A RAIN GAUGE SHALL BE ONSITE AND USED TO MAKE THIS DETERMINATION.
- 6. SITE SHALL BE STABILIZED WITHIN 14 DAYS OF COMPLETION OF WORK OR WITHIN
- 14 DAYS OF SUSPENSION OF WORK PER THE GENERAL PERMIT. 7. ALL EROSION AND SEDIMENT RELATED CONTROL AND ITEMS NEED TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS
- OTHERWISE DICTATED IN THE PLANS. 8. CONTRACTOR IS RESPONSIBLE FOR ALL DE-WATERING AS NECESSARY TO MEET REQUIRED EXCAVATIONS AND GRADES. MUDDY WATER TO BE PUMPED FROM EXCAVATION AND WORK AREAS MUST BE HELD IN SETTLING BASINS OR FILTERED PRIOR TO ITS DISCHARGE INTO SURFACE WATERS OR STORM DRAINAGE SYSTEMS. WATER MUST BE DISCHARGED THROUGH A PIPE, WELL GRASSED OR LINED CHANNEL. OR OTHER EQUIVALENT MEANS SUCH THAT DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENTATION. THIS INCLUDES DE-WATERING OF RAINWATER, GROUND WATER, OR ANY OTHER WATER ON SITE CAUSING IMPACTS TO SITE CONSTRUCTION.
- 9. ALL DISTURBED AREAS SHALL BE SEEDED AND HYDROMULCHED UNLESS SHOWN OTHERWISE IN THE PLANS.
- 10. TOP SOIL OR OTHER SOIL/CLAY STOCKPILES ARE NOT TO BE LOCATED WITHIN FLOW PATHS, BASES OF ALL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE.

## SEEDING NOTES:

- 1. ALL SEEDING MIX SHALL CONSIST OF THE FOLLOWING: -PERENNIAL RYEGRASS = 50 LBS OF LIVE SEED PER ACRE -PARK KENTUCKY BLUEGRASS = 50 LBS OF LIVE SEED PER ACRE -DURAHARD FESCUE = 30 LBS OF LIVE SEED PER ACRE -TOTAL LBS PER ACRE = 130
- -FERTILIZER TYPE = 5-10-5
- -FERTILIZER APPLICATION RATE = 50 LBS PER ACRE
- 2. CULTIVATE OR DISK TOPSOIL TO A DEPTH OF APPROXIMATELY 3".
- 4. PLANT SEEDS TO A DEPTH BETWEEN  $\frac{1}{4}$ " AND  $\frac{3}{4}$ ".
- 5. SEED ONLY WHEN WIND IS LESS THAN 15 MPH WHEN NOT USING A GRASS DRILL.
- 6. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING TO PREVENT EROSION AND PROMOTE EARLIER VEGETATION COVER.
- 7. CONTRACTOR IS RESPONSIBLE FOR WATERING TO ESTABLISH GRASS GROWTH TO A HEIGHT OF 3".

# TEMPORARY TRAFFIC CONTROL NOTES:

- 1. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AN ATSSA CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS) AND ANY NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES ON AND OFF-SITE INCLUDING OBTAINING ANY APPLICABLE PERMITS. THE CONTRACTOR SHALL IDENTIFY THE TCS AND PROVIDE PROOF OF CERTIFICATION AT A PRECONSTRUCTION MEETING.
- 2. UNLESS A TEMPORARY TRAFFIC CONTROL PLAN IS INCLUDED WITH THE DESIGN DOCUMENTS, CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED TRAFFIC CONTROL PLAN TO THE ENGINEER FOR REVIEW.
- 3. CONTRACTOR IS RESPONSIBLE TO INSTALL, INSPECT, MAINTAIN, AND REMOVE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE LATEST STANDARDS AND REQUIREMENTS OF THE MUTCD, STANDARD HIGHWAY SIGNS AND MARKINGS BOOK PUBLISHED BY THE FHWA, AND LOCAL REGULATIONS.
- 4. CHANGES TO THE TEMPORARY TRAFFIC CONTROL PLAN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER, ENGINEER, AND PERMITTING AUTHORITY IF APPLICABLE.

## LEGEND

3. REMOVE MATERIALS GREATER THAN 1" IN DIAMETER THAT CANNOT BE BROKEN UP.

|  |                            |             | ELGER                     |                                |                            |
|--|----------------------------|-------------|---------------------------|--------------------------------|----------------------------|
| ÷C÷  | EX. LIGHT POLE             | €#          | BORING LOCATION           | ——FO —FO —                     | EX. FIBER OPTIC            |
| Æ  | NEW LIGHT POLE             | 5           | EX. SIGN                  | GAS                            | EX. GAS LINE               |
| $\bigcirc$   | EX. POWER POLE             | •           | NEW SIGN                  |                                | EX. ELECTRIC               |
| 00   | NEW GREASE TRAP            | •           | FX PROPERTY PIN SET       | OHE                            | EX. OVERHEAD ELECTRIC      |
| 0  | NEW CLEAN OUT              | $\boxtimes$ | RIGHT OF WAY MARKER       | CATV                           | EX. CABLE TV               |
| $\bigcirc$   | EX. SANITARY MANHOLE       |             | HIGH WATER LINE           | TT                             | EX. TELEPHONE              |
| $\bullet$  | NEW SANITARY MANHOLE       | (1)         | PARKING COUNT             | <u> </u>                       | EX. CONTOUR                |
| $\bigcirc$   | EX. STORM MANHOLE          | DS●         | DOWN SPOUT                | 2455                           | NEW CONTOUR                |
| $\bullet$  | NEW STORM MANHOLE          |             | EXPANSION JOINT           |                                | CENTER LINE/SECTION LINE   |
|  | EX. STORM CATCH BASIN      | EJ~         |                           |                                | GRADE BREAK/DRAINAGE AREAS |
|  | NEW STORM CATCH BASIN      | xx          | - NEW FENCE               |                                | NEW TRACKS                 |
| >  | EX. CULVERT FLARE END      |             |                           |                                |                            |
| $\triangleright$   | NEW CULVERT FLARE END      |             | - SET BACK                | じ−Ů−Ů−Ů−Ů−Ů−Ů−Ů−Ů−Ů−Ů−Ů−Ů−Ů−Ů− | EX. TRACKS                 |
|  | EX. HEADWALL               |             | - FX FASEMENT             |                                | EY ASDHALT DAVEMENT        |
| $\smile$   | NEW HEADWALL               |             | - NEW FASEMENT            |                                | EX. ASI HALI I AVENIENI    |
| ¢  | EX. GATE VALVE             |             |                           |                                | NEW ASPHALT PAVEMENT       |
| •  | NEW GATE VALVE             |             | - NEW ROW/PROPERTY LINE   |                                |                            |
|  | EX. WATERLINE FITTINGS     |             | PROPERTY BOUNDARY LINE    |                                | EX. CONCRETE PAVEMENT      |
|  | NEW WATERLINE FITTINGS     |             | = FX_CURB                 |                                | NEW CONCRETE PAVEMENT      |
| <b>*</b> +   | NEW TAPPING SLEEVE & VALVE |             | = NEW CURB(INELOW)        |                                |                            |
| <b>•</b> $\diamond$ -  | EX. HYDRANT                |             |                           |                                | EX. GRAVEL SURFACE         |
| . <b></b>  | NEW HYDRANT & VALVE        |             | - FX RETAINING WALL       |                                | NEW GRAVEL SURFACE         |
| <b>*</b>   | EX. STUMP                  |             | - NEW RETAINING WALL      |                                | _                          |
| and the second s | EX. SHRUB                  | SS          | - FX SANITARY SEWER       |                                | EX. SIDEWALK/FLATWORK      |
| en e   | EX. DECIDUOUS TREE         | ss          | - NEW SANITARY SEWER      |                                | NEW SIDEWALK/FLATWORK      |
|  |                            | SFM         | - EX. SANITARY FORCE MAIN |                                | ,                          |
| *  | EX. CONIFEROUS TREE        | SFM         | - NEW SANITARY FORCE MAIN |                                | ACCESSIBLE (ADA) RAMP      |
| Q  | NEW SHRUB                  |             | - EX. WATER               | -                              |                            |
| 5  | NEW DECIDUOUS TREE         |             | - NEW WATER               |                                |                            |
|  |                            | STST        | - EX. STORM SEWER         | G                              | STRIPING ADA ACCESSIBLE    |
| 木  | NEW CUNIFERUUS IKEE        | STST        | - NEW STORM SEWER         |                                |                            |
| E.T.   | EX. ELECTRICAL TRANSFORMER | DTDT        | - EX. DRAIN TILE          |                                | STATING FORM ANNOWS        |
| T.P.   | EX. TELEPHONE PEDISTAL     | DTDT        | - NEW DRAIN TILE          | e e e e e e e e e e e e        |                            |
| E.O.   | EX. ELECTRICAL OUTLET      |             | - EX. STORM FORCE MAIN    |                                | SEEDING & HYDROMULCH       |
| U.P. 🔳   | EA. UTILIT PEUISTAL        | STFM        | - NEW STORM FORCE MAIN    |                                |                            |
| E  | ELEU MANHULE EXISI         |             |                           |                                |                            |

# ABBREVIATIONS

| ADJ    | ADJACENT                 | ELEV   | ELEVATION             |
|--------|--------------------------|--------|-----------------------|
| ALT    | ALTERNATE                | ENCL   | ENCLOSURE             |
| ARCH   | ARCHITECT                | E.O.P. | END OF PROJECT        |
| ACP    | ASBESTOS CEMENT PIPE     | E.J.   | EXPANSION JOINT       |
| BIT    | BITUMINOUS               | EX.    | EXISTING              |
| BLDG   | BUILDING                 | EX.A.  | EACH WAY              |
| BM     | BENCHMARK                | EVCE   | END VERTICAL CURVE    |
| B.O.   | BY OWNER/BY OTHERS       |        | ELEVATION             |
| B.O.P. | BEGINNING OF PROJECT     | EVCS   | END VERTICAL CURVE    |
| BV     | BUTTERFLY VALVE          | FD     | FIRE DEPARTMENT       |
| BVCF   | BEGINNING VERTICAL CURVE | FFE    | FIRST FLOOR ELEVATION |
| Brol   | FLEVATION                | FO     | FIBER OPTICS          |
| BVCS   | BEGINNING VERTICAL CURVE | FTG    | FOOTING               |
| 2,00   | STATION                  | G.C.   | GENERAL CONTRACTOR    |
| С      | CIVII                    | GALV   | GALVANIZED            |
| B.P.   | CAST IRON                | GAL    | GALLON                |
| CIP    | CAST IRON PIPE           | GRAN   | GRANULAR              |
| CU     | COPPER                   | GV     | GATE VALVE            |
| CMP    | CORRUGATED METAL PIPE    | HDPE   | HIGH DENSITY POLYETH  |
| CJ     | CONTROL JOINT            | HORZ   | HORIZONTAL            |
| CONC   | CONCRETE                 | HB     | HOSE BIB              |
| CF     | CUBIC FEET               | HDCP   | HANDICAPPED           |
| CS     | CURB STOP                | HYD    | HYDRANT               |
| C.O.   | CLEAN OUT                | I      | INLET                 |
| CNTR   | CENTER                   | K      | CURVATURE VALUE       |
| CONST  | CONSTRUCTION             | М      | MECHANICAL            |
| CONTR  | CONTRACTOR               | MH     | MANHOLE               |
| CY     | CUBIC YARD               | MAX    | MAXIMUM               |
| DIA    | DIAMETER                 | MIN    | MINIMUM               |
| DIP    | DUCTILE IRON PIPE        | M.J.   | MECHANICAL JOINT      |
| DEMO   | DEMOLITION               | MISC.  | MISCELLANEOUS         |
| DTL    | DETAIL                   | NC     | NON-CORROSIVE         |
| DIM    | DIMENSION                | NOM    | NOMINAL               |
| DOM    | DOMESTIC                 | NIC    | NOT IN CONTRACT       |
| D.S.   | DOWN SPOUT               | NTS    | NOT TO SCALE          |
| DWG    | DRAWING                  | OD     | OUTSIDE DIMENSION     |
| DWL    | DOWEL                    | OCEW   | ON CENTER EACH WAY    |
| EA     | EACH                     |        | ON CENTER             |
| ELEC   | ELECTRIC                 | OHE    | OVERHEAD ELECTRIC     |

| ).P. | END OF PROJECT        |
|------|-----------------------|
|      | EXPANSION JOINT       |
| •    | EXISTING              |
| .A.  | EACH WAY              |
| CE   | END VERTICAL CURVE    |
|      | ELEVATION             |
| CS   | END VERTICAL CURVE ST |
|      | FIRE DEPARTMENT       |
| Ξ    | FIRST FLOOR ELEVATION |
|      | FIBER OPTICS          |
| 3    | FOOTING               |
| C.   | GENERAL CONTRACTOR    |
| LV   | GALVANIZED            |
| L    | GALLON                |
| AN   | GRANULAR              |
|      | GATE VALVE            |
| PE   | HIGH DENSITY POLYETHY |
| RZ   | HORIZONTAL            |
|      | HOSE BIB              |
| СР   | HANDICAPPED           |
| D    | HYDRANT               |

|          | P.C.     | PRECAST CONCRETE           |
|----------|----------|----------------------------|
|          | PVIE     | POINT OF VERTICAL          |
|          | PVIS     | POINT OF VERTICAL          |
|          |          | INTERSECTION STATION       |
| _        | PREFAB   | PREFABRICATED              |
| Έ        | PSI      | POUNDS PER SQUARE INCH     |
|          |          | POLIVINIL CHLORIDE PIPE    |
|          | R        | RADIUS                     |
| TION     | RCP      | REINFORCED CONCRETE PIPE   |
|          | RD       | ROOF DRAIN                 |
|          | REQ'D    | REQUIRED                   |
| OR       | RIM      | RIM OF INLET OR CASTING    |
|          | ROW      | RIGHT OF WAY               |
|          | SAN      | SANITARY<br>Sanitary Sewer |
|          | SS<br>ST | STORM                      |
| ETHYLENE | STD      | STANDARD                   |
|          | SB       | SOIL BORING                |
|          | STRUCT   | STRUCTURAL                 |
|          | SF       | SQUARE FEET                |
|          | SCH      | SCHEDULE                   |
|          | SW       |                            |
|          | I<br>TYP |                            |
|          | UNEX     |                            |
|          | UE       | UTILITY EASEMENT           |
|          | UGE      | UNDERGROUND ELECTRIC       |
|          | UNO      | UNLESS NOTED OTHERWISE     |
|          | VERI     | VERTICAL                   |
|          | V        |                            |
|          | VOL      | VOLUME                     |
|          | VCP      | VITRIFIED CLAY PIPE        |
|          | W/       | WITH                       |
| /AY      | w/o      | WITH OUT                   |
|          | ŴТН      | WIDTH                      |
|          | W        | WATER                      |

|                                   | The second secon |  |  |  |  |  |  |  |  |
|-----------------------------------|--|--|--|--|--|--|--|--|--|
| REVISIONS                         |  |  |  |  |  |  |  |  |  |
|                                   | LINDEN TRAILS SUBDIVISION<br>810-T140N-R48W<br>CLAY COUNTY, MINNESOTA  |  |  |  |  |  |  |  |  |
| I<br>RI<br>DI<br>EN<br>DAT<br>LIC | I HEREBY CERTIFY THAT THIS<br>PLAN, SPECIFICATION, OR<br>REPORT WAS PREPARED BY ME<br>OR UNDER MY DIRECT<br>SUPERVISION AND THAT I AM A<br>DULY LICENSED PROFESSIONAL<br>ENGINEER UNDER THE LAWS OF<br>THE STATE OF MINNESOTA.<br>DANIELLE KUKOWSKI<br>DATE: 04/30/2019<br>LICENSE #: 56061  |  |  |  |  |  |  |  |  |
| PR<br>CH<br>DF<br>AP              | PROJECT DATE:<br>04/30/2019<br>CHECKED BY:<br>JML<br>DRAWN BY:<br>DJK<br>APPROVED BY:<br>DJK<br>SHEET:<br>2 OF 8   |  |  |  |  |  |  |  |  |
|                                   | GENERAL<br>NOTES & LEGEND  |  |  |  |  |  |  |  |  |





| REMOVAL AREAS<br>FLOW ARROW  | The second secon |
|--|--|
|  | REVISIONS  |
|  | LINDEN TRAILS SUBDIVISION<br>S10-T140N-R48W<br>CLAY COUNTY, MINNESOTA  |
|  | I HEREBY CERTIFY THAT THIS<br>PLAN, SPECIFICATION, OR<br>REPORT WAS PREPARED BY ME<br>OR UNDER MY DIRECT<br>SUPERVISION AND THAT I AM A<br>DULY LICENSED PROFESSIONAL<br>ENGINEER UNDER THE LAWS OF<br>THE STATE OF MINNESOTA.   |
|  | LE JOB # 18093 PROJECT DATE: 04/30/2019 CHECKED BY: JML DRAWN BY: DJK APPROVED BY: DJK SHEET: 3 OF 8   |
| CALL BEFORE YOU DIG<br>MINNESOTA<br>UTILITIES UNDERGROUND LOCATION SERVICE<br>1-800-252-1166 | SURVEY OVERLAY<br>&<br>DEMOLITION PLAN   |

GRAVEL TO EXISTING APPROACH.



| ESTIMATED STORM QUANTITIES |     |    |  |  |  |  |  |
|----------------------------|-----|----|--|--|--|--|--|
| ITEM QUANTITY UNI          |     |    |  |  |  |  |  |
| 12" HDPE STORM PIPE        | 238 | LF |  |  |  |  |  |
| 12" CMP STORM PIPE         | 100 | LF |  |  |  |  |  |
| 24" CMP STORM PIPE         | 15  | LF |  |  |  |  |  |
| 12" FLARED END SECTION     | 18  | EA |  |  |  |  |  |
| 24" FLARED END SECTION     | 2   | EA |  |  |  |  |  |
| RIP-RAP                    | 12  | CY |  |  |  |  |  |

NOTES: 1. MnDOT CLASS III RIP-RAP SHALL BE INSTALLED AT EACH NEW FLARED END SECTION PER DETAIL.



120

MINNESOTA



|   | E 100                           |
|---|---------------------------------|
| TOPSOIL STRIPPING   | G C SUIT                        |
| COMMON EXCAVATION   |                                 |
| EXPORT  |                                 |
| SUBGRADE PREPARATION 4,918 SY   |                                 |
| MNDOT TYPE V MODIFED FABRIC (4,918 SY   |                                 |
| MNDOT CLASS 5 AGGREGATE 2,056 CY  | 111 / FAR                       |
| NOTES:  | <del>,</del>                    |
| <ol> <li>ELEVATIONS ARE FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.</li> <li>12" OF TOPSOIL STRIPPING WAS ASSUMED TO ALLOW FOR</li> </ol> |                                 |
| CLEARING OF ALL VEGETATION FROM IMPACTED AREAS OF THE SITE.   |                                 |
| 3. CONSTRUCTION EQUIPMENT SHALL NOT ENTER AREAS RESERVED  |                                 |
| 4. CONTRACTOR SHALL STOCKPILE EXCESS TOPSOIL AND SUBGRADE   |                                 |
| MATERIAL IN WINDROW STOCKPILES EVENLY ACROSS EACH LOT.  |                                 |
| 5. CONTRACTOR SHALL WIDEN 80TH AVE NORTH TO 24' MINIMUM,<br><sub>EWAY</sub> ADD CLASS 5 AGGREGATE TO A FINAL MINIMUM DEPTH OF 8" WITH     |                                 |
| 4% CROWN. CONTRACTOR SHALL HOLD EXISTING ELEVATIONS AND ALIGNMENT ALONG THE NORTH SIDE OF THE ROAD AND EXTEND                             |                                 |
| ROAD TO THE SOUTH. NEW DITCH INSLOPE SHALL BE 4:1 WITH 6' BOTTOM AND BACKSLOPE SHALL DAYLIGHT TO EXISTING GROUND                          |                                 |
| AT 4:1 SLOPES.<br>6. NEW TRAIL SHALL BE MINIMUM 4" THICK MNDOT CLASS 5. NO  | 0<br>0<br>0<br>0<br>0<br>0<br>0 |
| FABRIC REQUIRED.  |                                 |
| 7. EXPORT QUANTITY ASSUMES A FILL FACTOR OF 1.3.  |                                 |
| 8. QUANITIY FOR FABRIC DOES NOT INCLUDE REQUIRED OVERLAP.<br>9. CLASS 5 QUANTITY DOES NOT INCLUDE COMPACTION.                             |                                 |
| 10. CONTRACTOR SHALL SALVAGE AND REUSE EXISTING GRAVEL ON<br>80TH AVE NORTH. NEW CLASS 5 QUANTITY FOR 80TH AVE NORTH                      |                                 |
| ASSUMES ADDING 4" TO EXISTING ROAD PLUS 8" DEPTH AT 9'<br>WIDE ON PORTION OF NEW EXTENSION TO THE SOUTH.                                  |                                 |
|   |                                 |
| PHALT ROAD  | ISI O                           |
|   | ES /                            |
|   |                                 |
|   |                                 |
|   |                                 |
|   |                                 |
|   |                                 |
| GRADE BREAK/FLOW PATH   | 10 IO                           |
| FG FINISH GROUND<br>FI FLOWLINE   | C S S                           |
| HP HIGH POINT   | DF                              |
| INV STRUCTURE INVERT ELEVATION<br>LP LOW POINT  |                                 |
| MC MIDPOINT OF CURVE  |                                 |
| PC POINT OF CURVATURE   |                                 |
| RIM STRUCTURE RIM ELEVATION<br>TC TOP OF CURB   |                                 |
| TOC TOP OF CONCRETE   | I HEREBY CERTIFY THAT THIS      |
| TOW TOT OF WALK   | REPORT WAS PREPARED BY ME       |
|   | SUPERVISION AND THAT I AM A     |
|   | ENGINEER UNDER THE LAWS OF      |
| 1 05-13-19  | MINNESUTA.                      |
| KEVISED GRADING CALL OUTS FOR 32' WIDE     ROADWAY  | DANIELLE KUKOWSKI               |
| ADDED MISSING ROAD LABELS   | LICENSE #: 56061                |
|   | LE JOB #                        |
|   | 18093                           |
|   | PROJECT DATE: 04/30/2019        |
|   | CHECKED BY:<br>JML              |
|   | DRAWN BY:<br>DJK                |
|   | APPROVED BY:                    |
|   | SHEET:                          |
| (N)   | 5 OF 8                          |
| Ť   |                                 |
|   |                                 |
|   | GRADING<br>PLAN                 |
|   |                                 |
|   | G                               |
| MINNESOTA   |                                 |
|   |                                 |
| UTILITIES UNDERGROUND LOCATION SERVI  | ICE                             |



| 900.79HP | 5+00 <i>79TH AVENUE NORTH</i> 6+00 899.76L | 200-<br>200-<br>200-<br>200-<br>200-<br>200-<br>200-<br>200- |  |
|----------|--|--|--|
|          |  | 97.08INV   |  |



1 05-13-19 REVISED 79TH AVE TO 32' WIDE
 UPDATED IMPACTED QUANTITIES
 ADDED MISSING ROAD LABELS

| EROSION CONTROL LEGEND |   |        |    |  |  |  |  |  |
|------------------------|---|--------|----|--|--|--|--|--|
| LIMITS OF CONSTRUCTION |   |        |    |  |  |  |  |  |
| SF                     | SILT FENCE                              | 1,879  | LF |  |  |  |  |  |
| <u></u>                | FIBER ROLL PROTECTION<br>(STRAW WATTLE) | 216    | LF |  |  |  |  |  |
|                        | SEEDING & HYDROMULCH                    | 35,772 | SY |  |  |  |  |  |
|                        | EROSION CONTROL BLANKET                 | 7,448  | SY |  |  |  |  |  |
|                        | VEHICLE TRACKING PAD                    | 1      | EA |  |  |  |  |  |

- NOTES: 1. CONTRACTOR SHALL FOLLOW MPCA STORMWATER POLLUTION PREVENTION STANDARDS FOR ALL EROSION CONTROL DURING
- CONSTRUCTION. 2. CONTRACTOR SHALL SEED & MULCH ALL DISTURBED AREAS WITHIN 14 DAYS. 3. CONTRACTOR SHALL INSTALL STRAW WATTLE AROUND FLARED END
- SECTIONS UNTIL RIP-RAP IS INSTALLED AND SITE IS STABILIZED.



120 CALL BEFORE YOU DIG MINNESOTA UTILITIES UNDERGROUND LOCATION SERVICE 1-800-252-1166

