Erosion Control Notes:
1. Erosion control measures shown are the minimum required. Contractor shall comply with MNDOT SPEC. 1803.5. Contractor shall refer to Appendix D of the City of Duluth 2011 Edition of the "Standard Construction Specifications" for details of erosion control measures.
2. The HDPE Erosion Blanket shall be kept moist at a minimum of 10% water content. It shall be installed according to MNDOT SPEC. 2775.4. To be installed as final restoration after topsoil and seed are applied.
3. Erosion control measures shall meet the requirements of MNDOT 3088 Standard Machine Sliced. Install prior to any excavation activities on site.
4. Erosion control can be temporarily removed to facilitate construction activities but must be reinstalled before the end of each working day.

Traffic Control Notes:
1. Contractor to install and maintain traffic control as needed when unloading materials and equipment.
2. Traffic control measures shown are the minimum required. Contractor shall comply with paragraph S-111 of the City of Duluth 2011 Edition of the "Standard Construction Specifications".
3. Traffic control devices, layouts, and practices shall comply with MNDOT Manual on Uniform Traffic Control Devices (MUTCD).
TYPICAL TOWER FOUNDATION

- CONCRETE PIER
  - TBD BY MFR
  - STRUCTURAL REINFORCEMENT TO BE DETERMINED BY MFR

- REINFORCED CONCRETE FOUNDATION, 5,000 PSI MIN.
- AE CONCRETE
- ASSUME PRIMARY LEG TO HOLD ALL ANTENNAS.
- ACTUAL INSTALLATION MAY VARY.

- EXCAVATION LIMIT
- 12" MIN COMPACTED ROAD BASE
- 12" MIN WASHED #2 STONE
- GEO-FABRIC W/ 8" MIN WASHED #2 STONE
- COPPER GROUND WIRE (BY OWNER)

- MOUNTING ANCHOR BOLTS
- 1" GALV RIGID STEEL CONDUIT FOR ANTENNA CABLE, FUTURE TOSS, AND IMPERISE FROM RTU BUILDING (BY OWNER).

- SOIL BORINGS
  - ST-01
  - 0' (EL 611.96) END OF BORING
  - END OF BORING
  - POORLY GRADED SAND
  - POORLY GRADED SAND
  - POORLY GRADED SAND WITH SILT
  - POORLY GRADED SAND
  - POORLY GRADED SAND

- APPROXIMATE EXCAVATION SHALL BE SAFE AND BY CONTRACTOR


- GENERALLY, DRAWINGS DO NOT INDICATE TEMPORARY REQUIREMENTS. NEED FOR TEMPORARY DEWATERING, TEMPORARY EARTH RETENTION, TEMPORARY ELECTRICITY CUTOFF OR OTHER TEMPORARY MEASURES MAY BE INDICATED ON DRAWINGS AT SELECTED AREAS AS SUGGESTIONS FOR CONTRACTOR'S CONVENIENCE. DRAWINGS DO NOT IDENTIFY ALL AREAS OR CONDITIONS REQUIRING TEMPORARY MEASURES. DETERMINE MOST EFFICIENT TEMPORARY SYSTEMS AND DESIGN AND CONSTRUCT TEMPORARY SYSTEMS.

- ALL DIMENSIONS TO BE DETERMINED (TBD) BY MANUFACTURER
- DETAIL SHOWS MINIMUM PROJECT REQUIREMENTS. TOWER MANUFACTURER SHALL PROVIDE DESIGN TO MEET ACTUAL INSTALLATION REQUIREMENTS. DESIGN SHALL BE SEALED BY P.E.
- GENERAL AND TYPICAL DETAIL. ACTUAL INSTALLATION MAY VARY.

- NOTE:
  1. ALL DIMENSIONS TO BE DETERMINED (TBD) BY MANUFACTURER
  2. DETAIL SHOWS MINIMUM PROJECT REQUIREMENTS. TOWER MANUFACTURER SHALL PROVIDE DESIGN TO MEET ACTUAL INSTALLATION REQUIREMENTS. DESIGN SHALL BE SEALED BY P.E.
  3. GENERAL AND TYPICAL DETAIL. ACTUAL INSTALLATION MAY VARY.
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3. GENERAL AND TYPICAL DETAIL. ACTUAL INSTALLATION MAY VARY
4. ASSUME ALL CABLE TO BE 7/8" DIA.

PARK POINT COMMUNICATIONS TOWER
NOTE:
EXISTING TOWER MUST REMAIN IN OPERATION DURING CONSTRUCTION OF NEW TOWER. EXISTING TOWER MAY NOT BE DEMOLED BEFORE THE NEW TOWER IS OPERABLE. CONTRACTOR SHALL COORDINATE THE MOVING OF OPERATION FROM EXISTING TOWER TO NEW TOWER WITH THE CITY OF DULUTH.

EXISTING GROUND CONTOURS

REMOVE EXISTING GUY WIRE, FOUNDATION PIERS (TYP)

REMOVE EXISTING GUY WIRES

NEW TOWER SITE

CONSTRUCTION LIMITS

CONSTRUCTION LIMITS

CONSTRUCTION LIMITS

CONSTRUCTION LIMITS

CONSTRUCTION LIMITS

CONSTRUCTION LIMITS

PARK POINT COMMUNICATIONS TOWER

CITY PROJ. NO. 12-027

SHEET NO. D-1 - DEMOLITION PLAN