

**REMOVALS NOTES:** 

- REFER TO SHEET C2.12, FOR GENERAL NOTES.

  MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING VEGETATION AND SITE FEAT
- 2. MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING VEGETATION AND SITE FEATURES (CURBS, WALKS, PAVEMENTS, OVERHEAD AND UNDERGROUND UTILITIES, SIGNAGE, FENCING, ROADWAYS, ETC.) WHICH ARE TO REMAIN.
- 3. REPAIR OR REPLACE EXISTING PROPERTY AND SITE FEATURES, INCLUDING GRASS AND VEGETATION, WHICH IS TO REMAIN THAT IS DAMAGED BY THE WORK, TO OWNER'S SATISFACTION AND AT NO ADDITIONAL COST TO THE OWNER.
- 4. VISIT THE SITE PRIOR TO BIDDING; BE FAMILIAR WITH ACTUAL CONDITIONS IN THE FIELD. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR CONDITIONS WHICH COULD HAVE BEEN DETERMINED OR ANTICIPATED BY EXAMINATION OF THE SITE, THE CONTRACT DRAWINGS AND THE INFORMATION AVAILABLE PERTAINING TO EXISTING SOILS, UTILITIES AND OTHER SITE CHARACTERISTICS.
- 5. THE CONTRACTOR SHALL HIRE THE SERVICES OF A UTILITY LOCATOR COMPANY TO LOCATE ALL PRIVATELY OWNED UTILITIES THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS.

## LEGEND

1 G2.12

REFERENCE KEY TO SITE DETAILS DETAIL I.D NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)

XXXXXX CONCRETE CURB AND GUTTER REMOVALS

BITUMINOUS PAVEMENT REMOVALS

TREE/SHRUB REMOVALS

**— — — — — SAWCUT** 

SITE NOTES:

1. REFER TO SHEET C2

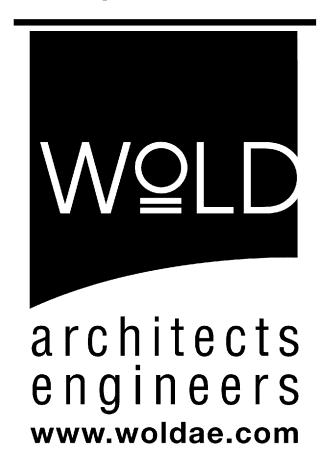
- 1. REFER TO SHEET C2.12, FOR GENERAL NOTES.
- CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
   SIGNAGE SHALL GENERALLY BE INSTALLED 18" BEHIND THE BACK OF CURB.
- 4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD WHICH ARE NOT DESIGNATED TO BE
- PAVED SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED OR SEEDED.
- 5. WHERE NEW SOD MEETS EXISTING TURF, EXISTING TURF EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.
- 6. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD OR RE-SEED ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
- 7. TREE PROTECTION INSTALL ORANGE SNOW FENCE AT DRIP LINE. MAINTAIN FOR DURATION OF PROJECT.
- 8. ALL PARKING STALL PAINT STRIPING SHALL BE WHITE (REFER TO SPECIFICATION SECTION 32 17 23)
- ALL CONSTRUCTION PARKING SHALL BE ON-SITE (NO ON-STREET PARKING/LOADING/UNLOADING ALLOWED)
- 10. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY.

## **LEGEND**

1 C2.12	REFERENCE KEY TO SITE DETAILS DETAIL I.D NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)
	PROPOSED BITUMINOUS PAVEMENT (2)
ol	SIGNAGE KEY NOTE $\frac{6}{C2.12}$
<b>E</b>	PAINTED ACCESSIBLE SYMBOL
	PROPOSED CONCRETE WALK (7)
	APPROXIMATE SOD LIMITS
	PROPOSED SHRUB / MULCH BED (7) (C2.12)

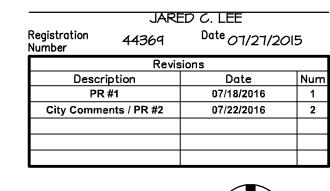
Jefferson High School Bus Lane Improvements

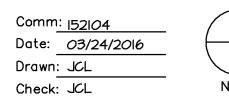
Independent School Disrict #271 351 East 88th Street





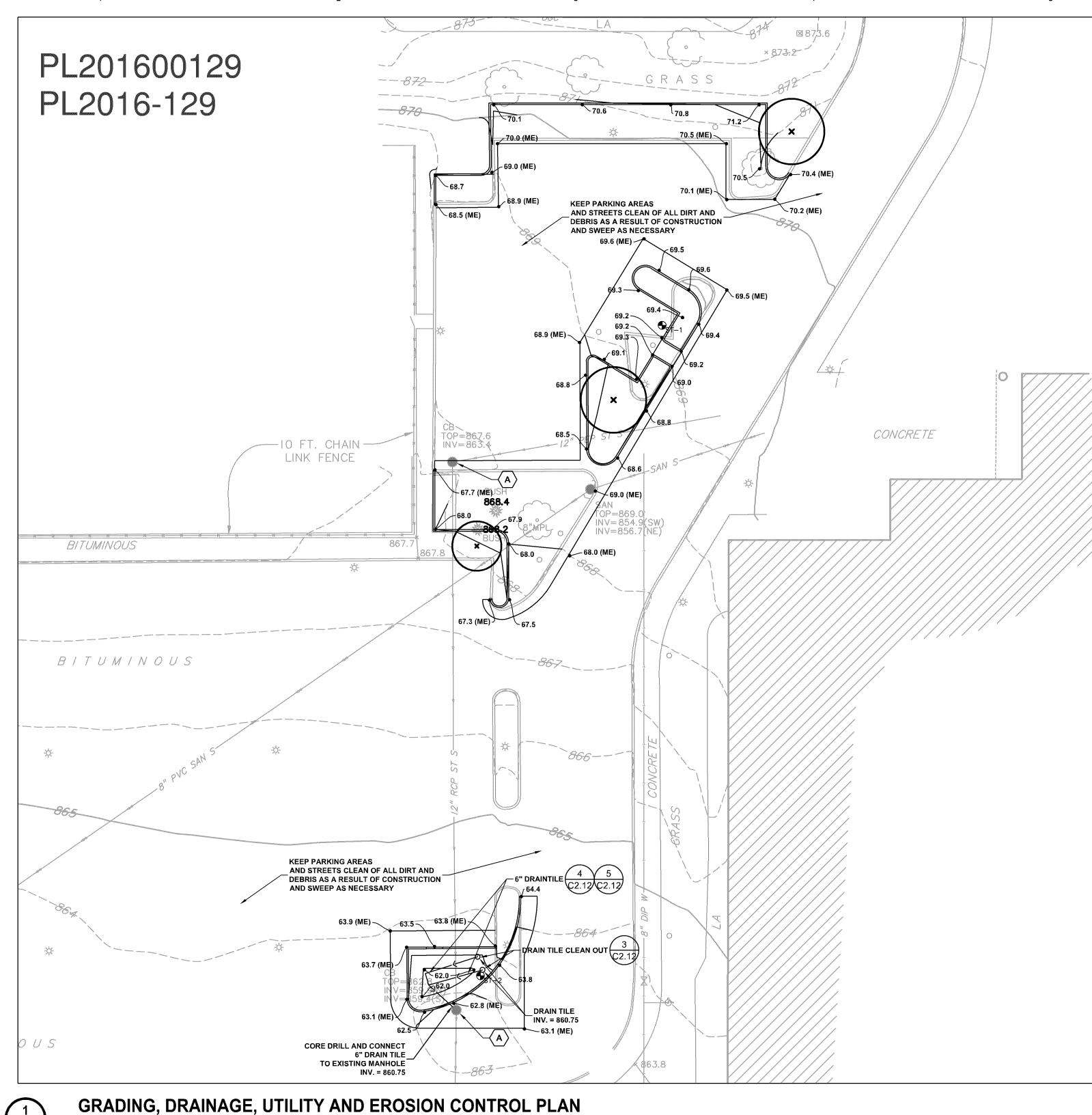
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota





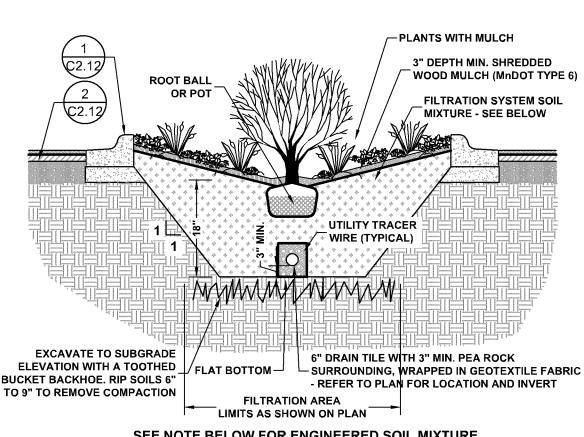
REMOVALS AND SITE PLAN

Scale: I" = 20



一1:3 BATTER SLOPE <sup>3</sup> PER FOOT TOWARDS PAVEMENT ON HIGH SIDE OF LOT/DRIVE (TIP OUT) - SLOPE 3" PER FOOT TOWARDS BACK OF CURB FACE ON LOW SIDE OF LOT/DRIVE (TIP BACK) FITTING HUB WITH 4" THREADED PLUG. APPLY **SERIES CAST IRON** TEFLON THREAD TAPE, METER PIT FRAME OR APPROVED EQUAL, OVER THREADS. -FINISH GRADE AGGREGATE BASE TO BE - PLACED BY PAVING CONTRACTOR (4" MIN.) 1. DIRECTION OF TRANSVERSE GUTTER SLOPE TO MATCH DIRECTION OF ADJACENT PAVEMENT SLOPE. CONSTRUCT WITH CURBING MACHINE. 2. AT CURB INLET CATCH BASINS, ADJUST CASTING TO BE 1" BELOW GUTTER GRADE. SLOPE GUTTER 5' EACH SIDE OF CATCH BASIN. PROVIDE POSITIVE DRAINAGE TO CATCH BASINS. 4" TOPSOIL — **LEAVE 24" OF EXCESS B-612 CURB AND GUTTER** WIRE AT SURFACE ATTACH A GREEN #12 SOLID COPPER TRACER WIRE TO PIPE AT 3' 0.C. WITH PLASTIC ZIP-TIES (OR APPROVED PAVEMENT EDGE AS SHOWN ON PLAN **EQUAL). FOR STORM SEWER** CLEANOUTS WIRE SHALL WITHOUT CURB AND GUTTER ALSO HAVE BROWN STRIPE. -2" BITUMINOUS WEAR COURSE TRACER WIRE -TACK COAT - 2" BITUMINOUS BINDER COURSE -8" AGGREGATE BASE COURSE **DRAINTILE CLEANOUT** ÷ GEOTEXTILE FABRIC ∶ **12" SUBGRADE PREPARATION** 

**BITUMINOUS PAVEMENT** 



SEE NOTE BELOW FOR ENGINEERED SOIL MIXTURE TYPICAL SECTION THRU FILTRATION AREA

INSTALLATION, SUFFICIENT MATERIAL QUANTITIES SHALL BE ONSITE TO COMPLETE THE

INSTALLATION AND STABILIZE EXPOSED SOIL AREAS WITHOUT DELAY.

8. INSTALL PLANTINGS BY HAND.

FILTRATION AREA CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

FILTRATION AREA LIMITS SHALL BE SURVEYED AND A VISUAL BARRIER, SUCH AS ORANGE SNOW FENCE, SHALL BE PLACED AROUND THE FULL PERIMETER TO KEEP ALL CONSTRUCTION TRAFFIC, EQUIPMENT AND MATERIAL STOCKPILES OUT OF THE PROPOSED FILTRATION AREA. THE VISUAL BARRIER MUST BE INSTALLED BEFORE NEW CONSTRUCTION BEGINS AND SHALL BE MAINTAINED THROUGH THE DURATION OF THE PROJECT. DELIVER SAMPLE MATERIALS ONSITE FOR PRIOR APPROVAL. PRIOR TO BEGINNING THE

CARE MUST BE TAKEN TO AVOID CONTAMINATION OF ENGINEERED SOILS WITH SEDIMENT, IN-SITU OR TOPSOIL DURING AND AFTER INSTALLATION. MATERIALS MUST BE SEGREGATED. INSTALLATION WITH DRY SOIL CONDITIONS IS CRITICAL TO PREVENT SMEARING AND COMPACTION. SCHEDULE WORK FOR PERIODS OF DRY WEATHER, DO NOT WORK IF SOIL CONDITIONS ARE WET, EXCAVATION, SOIL PLACEMENT AND RAPID STABILIZATION OF PERIMETER SLOPES WITH TURF SOD MUST COMPLETED BEFORE THE NEXT PRECIPITATION EVENT. TURF SOD PLACED IN FLOW PATHS SHALL BE SECURED WITH AT LEAST 6 STAKES PER SQUARE YARD. PLACE

DO NOT LEAVE STORMWATER AREAS AND / OR PERIMETER SLOPES EXPOSED OVERNIGHT. SECURE THE SITE FROM RISK OF PRECIPITATION DAMAGES AT THE END OF EVERY WORK DAY. IN THE EVENT OF RAIN, TAKE ACTION TO DIVERT STORMWATER AWAY FROM THE WORK AREA AND TEMPORARILY COVER OF ALL EXPOSED SOILS WITH FILTER FABRIC OR IMPERMEABLE SHEETING. FIELD OBSERVATION OF EXCAVATION AND SOIL PLACEMENT IS REQUIRED. NOTIFY GEOTECHNICAL ENGINEER PRIOR TO DIGGING, USE BACKHOE WITH TOOTH BUCKET FOR CELL EXCAVATION TO AVOID COMPACTING OR SMEARING OF SOILS.

(DO NOT USE SKID STEER FOR EXCAVATION WITHIN THE CELL) USE TOOTH BUCKET TO SCARIFY (RIP) UNDERLYING

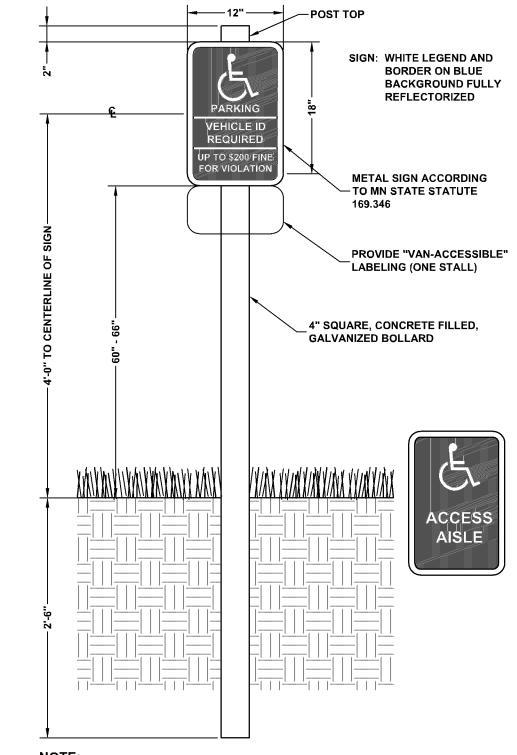
UNDERLYING SOILS TO AVOID STRATIFICATION AND PROMOTE PERMEABILITY. USE EXCAVATOR BUCKET TO PLACE

MATERIALS. CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED INTO THE STORMWATER AREAS. LEVELING AND

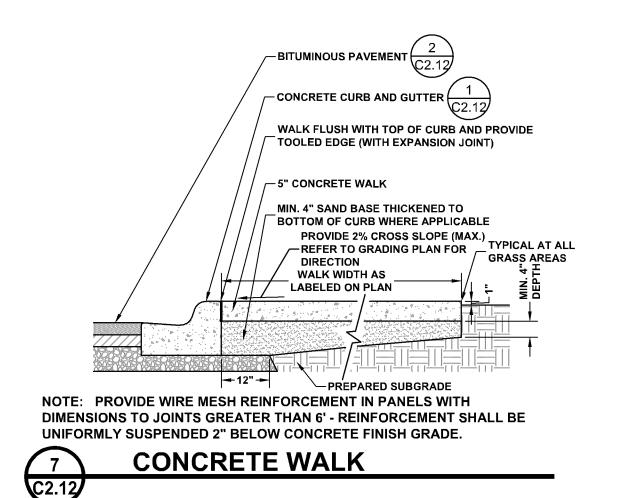
FINAL GRADING WITHIN THE CELL MUST BE COMPLETED BY HAND. FILTRATION AREA SOIL MIX SHALL BE MINNESOTA STORMWATER MANUAL 4.1.2 MIX B: ENHANCED FILTRATION BLEND (WELL BLENDED MIXTURE OF 70% ASTM C-33 COARSE WASHED SAND (MN/DOT 3126) AND 30% MN/DOT 3890 GRADE 2 LEAF LITTER COMPOST. THE MATERIAL SUPPLIER SHALL PROVIDE DOCUMENTATION THAT THE COMPOST HAS BEEN SAMPLED AND TESTED AS REQUIRED BY THE SEAL OF TESTING ASSURANCE (STA) PROGRAM OF THE UNITED STATES COMPOSTING COUNCIL (USCC) AND A GRADATION SIEVE ANALYSIS FOR THE WASHED SAND. THE ENGINEERED SOIL SHALL NOT CONTAIN ANY TOPSOIL OR FILTER AGGREGATE WITH FINES.

. INSTALLED SOD AND PLANTINGS REQUIRE A TOTAL OF 1" OF WATER PER WEEK AND ACTIVE WEED MANAGEMENT UNTIL WELL ESTABLISHED. WATERING COSTS ARE CONSIDERED INCIDENTAL TO SOD AND PLANTING INSTALLATION. CONSTRUCT A TEMPORARY IRRIGATION SYSTEM, CONSISTING OF ABOVE GROUND HEADS, PIPING, VALVES, ETC., FOR WATERING UNTIL VEGETATION IS ESTABLISHED. DO NOT USE A WATER TRUCK AS THE FORCE OF THE WATER WILL ADVERSELY AFFECT THE STORMWATER AREA SOILS.

10. REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS SHALL BE DONE BY HAND OR, IF SELF-PROPELLED EQUIPMENT IS REQUIRED, FROM OUTSIDE THE PERIMETER OF THE FILTRATION AREAS. **FILTRATION AREA** 



SIGN SHALL BE PLACED NOT MORE THAN 96" FROM FACE **ACCESSIBLE PARKING SIGN** 



**GENERAL NOTES** 

REFERENCE KEY TO SITE DETAILS DETAIL I.D NUMBER (TOP)

**DETAIL SHEET NUMBER (BOTTOM)** EXISTING CONTOUR

EXISTING SPOT ELEVATION --- PROPOSED CONTOUR

**LEGEND** 

ME = MATCH EXISTING APPROXIMATE SOIL BORING / TEST PIT LOCATION SEDIMENT CONTROL DEVICE AT STORM SEWER INLET

 $\longrightarrow$  PROPOSED DRAINTILE  $\begin{pmatrix} 4 \\ C2.12 \end{pmatrix} \begin{pmatrix} 5 \\ C2.12 \end{pmatrix}$ 

PROPOSED DRAINTILE CLEAN OUT  $\frac{3}{(2.12)}$ 

ZONES) NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. ALL SIGNAGE LAYOUTS MUST BE DESIGNED BY THE CONTRACTOR AND APPROVED BY LOCAL AUTHORITIES. PROPOSED SPOT ELEVATION

STAKING / LAYOUT.

5. INSTALL CONTROL FENCING AND BARRICADING AS NECESSARY TO PROTECT THE PUBLIC. 6. INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF MATERIALS TO BE HANDLED.

ALL CONSTRUCTION MUST COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES.

THE CONTRACTOR WILL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL CONSTRUCTION

INCLUDING THE NPDES PERMIT FROM THE MPCA. SUBMIT A COPY OF ALL PERMITS TO THE

4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL SIGNAGE (CONSTRUCTION

3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL RELATED CONSTRUCTION PERMITS,

7. REFER TO SPECIFICATIONS FOR DEWATERING REQUIREMENTS.

AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.

8. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.

9. REFER TO ARCHITECTURAL PLANS FOR BUILDING AND STOOP DIMENSIONS AND LAYOUT. 10. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION

11. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.

12. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND LOCAL REGULATIONS.

13. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING SITE FEATURES (INCLUDING TURF AND VEGETATION) WHICH ARE TO REMAIN.

14. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISH GRADE UNLESS

15. PROPOSED ELEVATIONS SHOWN TYPICALLY AS 68.1 OR 68 SHALL BE UNDERSTOOD TO MEAN

16. SPOT ELEVATIONS SHOWN IN PARKING LOTS, DRIVES AND ROADS INDICATE GUTTER GRADES, **UNLESS NOTED OTHERWISE.** 

17. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ORDER TO COMPLETELY PERFORM ALL WORK INDICATED ON THE DRAWINGS. IMPORT SUITABLE MATERIAL AND EXPORT UNSUITABLE / EXCESS / WASTE MATERIAL AS REQUIRED. ALL COSTS ASSOCIATED WITH IMPORTING AND EXPORTING MATERIALS SHALL BE INCIDENTAL

18. NO FINISHED SLOPES SHALL EXCEED 4' HORIZONTAL TO 1' VERTICAL (4:1), UNLESS

19. ALL DISTURBED AREAS WHICH ARE NOT DESIGNATED TO BE PAVED OR LANDSCAPED, SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.

20. WHERE NEW SOD MEETS EXISTING SOD, EXISTING SOD EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.

21. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SEED OR RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.

22. ALL STORM SEWER PIPE SHALL BE RCP, CLASS III (MIN.), WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.

23. FLEXIBLE JOINTS AT CATCH BASIN AND MANHOLE CONNECTIONS: a. IN ACCORDANCE WITH MINNESOTA RULES 4715.0700 AND 4715.0750, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL CATCH BASINS AND MANHOLES. b. ACCEPTABLE MANUFACTURERS / PRODUCTS:

FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS" PRESS-SEAL, WATERSTOP GROUTING RINGS" iii. OR APPROVED EQUAL.

24. ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MN RULES 4715.1710, SUBPART 3. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR

25. LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.

25. ALL CONSTRUCTION PARKING SHALL BE ON-SITE (NO ON-STREET PARKING/LOADING/UNLOADING ALLOWED)

26. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY.

27. PROVIDE CONTINUAL MAINTENANCE OF SILT FENCE ONCE INSTALLED. REMOVE SEDIMENT WHEN SEDIMENT DEPTH IS 1/3 THE HEIGHT OF THE SILT FENCE.

28. FIELD LOCATE EXISTING UNDERGROUND UTILITIES WITHIN EXCAVATED AREA.

29. STOCKPILES ON PAVED SURFACES SHALL BE TARPED OR HAVE PERIMETER PROTECTION.

30. CONTACT UTILITY DIVISION (952-563-8777) PRIOR TO CONNECTION TO STORM SEWER SYSTEM.

Jefferson High School **Bus Lane** 

Improvements

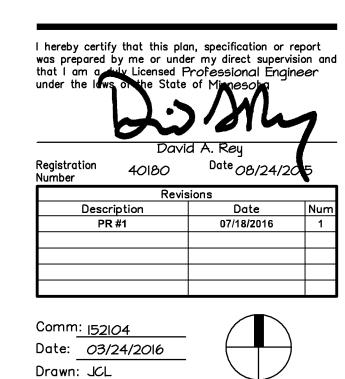
Independent School Disrict #271 351 East 88th Street Bloomington, MN



architects engineers www.woldae.com

332 Minnesota Street Suite W Two Thousand fax 651 223 5646 Saint Paul, MN 55101 mail@woldae.com





GRADING, DRAINAGE, UTILITY, AND EROSION CONTROL **PLAN** 

Check: JCL