WILSON PARK

IMPROVEMENT PROJECT FERNDALE, MI

NOVEMBER 15, 2023 ISSUE FOR BID

AGENCY PROJECT: 14337 26-01872 LAND & WATER CONSERVATION FUND

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Prepared for:

FERNDALE PARKS AND RECREATION DEPARTMENT

INCUBIZO 1938 BURDETTE STREET FERNDALE, MI 48220 Prepared by:

SMITHGROUP

Project Area

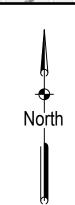
201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroup.com

PROJECT VICINITY MAP

Gage Cannabis

B. Nektar Meadery - Taproom &...

Motor City Pawn Brokers



Skymint Hazel Park



THIS PROJECT IS FUNDED BY THE FEDERAL GOVERNMENT, THE CONTRACTOR IS REQUIRED TO BUY AMERICAN-MADE PRODUCTS: THE BUILD AMERICA BUY AMERICA ACT, ENACTED AS PART OF THE INFRASTRUCTURE INVESTMENT AND JOBS ACT ON NOVEMBER 15, 2021, ESTABLISHED A DOMESTIC CONTENT PROCUREMENT PREFERENCE FOR ALL FEDERAL FINANCIAL ASSISTANCE OBLIGATED FOR INFRASTRUCTURE PROJECTS AFTER MAY 14, 2022. THE DOMESTIC CONTENT PROCUREMENT PREFERENCE REQUIRES THAT ALL IRON, STEEL, MANUFACTURED PRODUCTS, AND CONSTRUCTION MATERIALS USED IN COVERED INFRASTRUCTURE PROJECTS ARE PRODUCED IN THE UNITED STATES. (OFFICE OF ACQUISITION MANAGEMENT – DEPT OF COMMERCE – UNITED STATES OF AMERICA)

DTE:

- 1) MICHIGAN DEPARTMENT OF NATURAL RESOURCES 26-01872 LAND & WATER CONSERVATION FUND. FUNDING IS BEING USED FOR THE PROJECT AND ALL STATE AND FEDERAL REQUIREMENTS APPLY.
- CONTRACTOR AND ALL SUB-CONTRACTORS MUST COMPLY WITH ALL REQUIREMENTS OF 1976 PA 453 (ELLIOTT-LARSEN CIVIL RIGHTS ACT), THE 1976PA 220 (PERSONS WITH DISABILITIES CIVIL RIGHTS ACT), AND EXECUTIVE DIRECTIVE 2019-09, AS AMENDED.

PERMITS NOTE:
OAKLAND COUNTY SOIL EROSION CONTROL PERMIT

OBTAINED DURING DESIGN

3) MICHIGAN DEPARTMENT OF NATURAL RESOURCES 26-01872 LAND & WATER CONSERVATION FUND AWARDED OAKLAND COUNTY PARKS AND RECREATION A GRANT FOR THE AMOUNT OF \$420,000. SEE COST ESTIMATE FOR BREAKOUT BETWEEN MDNR FUNDED SCOPE ITEMS AND OAKLAND COUNTY SCOPE ITEMS.

NOIL.

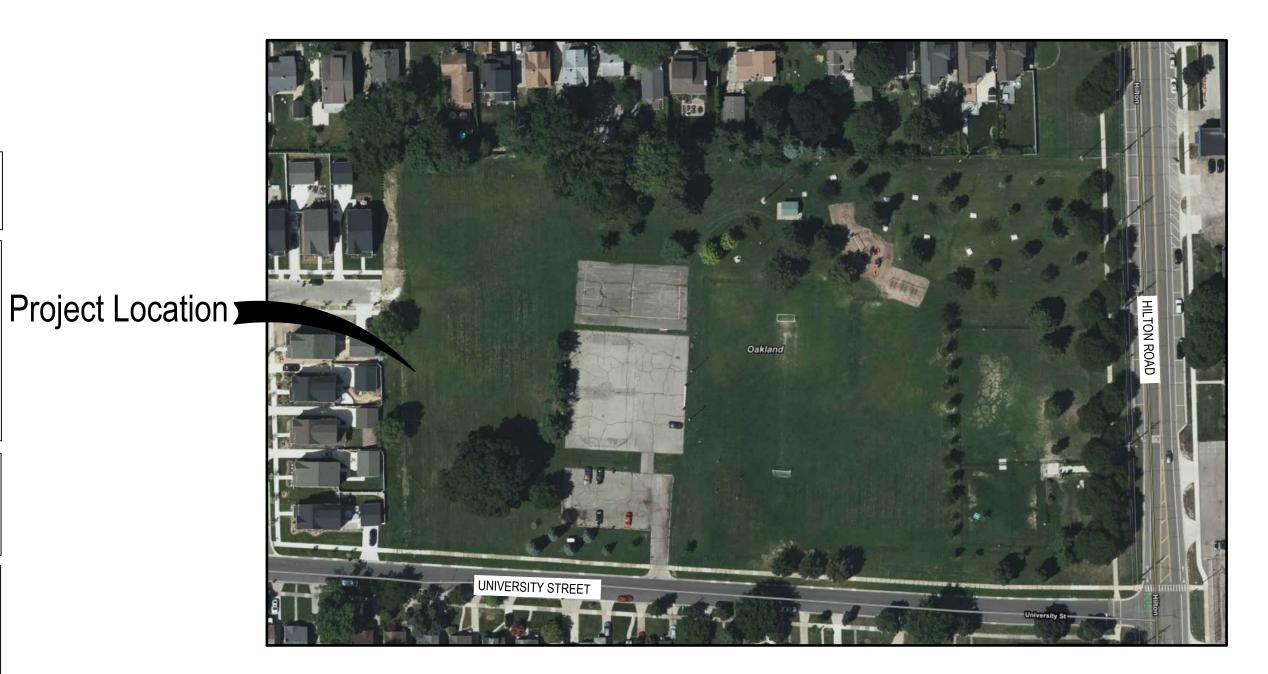
ALL WORK ON THESE PLANS SHALL CONFORM TO THE MDOT 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

CITY OF FERNDALE PURCHASES

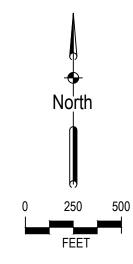
- PICNIC SHELTERADA PICNIC TABLES
- PLAY STRUCTURE & OTHER PLAY COMPONENTS
- FIBAR PLAYGROUND MATERIAL DPW
- TREES DPW
- RESTORATION (LAWN SEED / HYDROMULCH) DPW

CONTRACTOR PURCHASES

- INTERPRETATIVE SIGNAGE
- BIKE LOOPS
- BIKE REPAIR STATION
- BASKETBALL HOOPSDRINKING FOUNTAIN
- NATIVE SEEDING
- BIOSWALE PLANTSRECYCLING & WASTE RECEPTACLES
- BENCHES



PROJECT LOCATION MAP





DEMOLITION AND EROSION CONTROL NOTES

- SECURE AND COMPLY WITH ALL REQUIREMENTS OF ALL PERMITS REQUIRED FOR THIS WORK. (INCLUDING OAKLAND COUNTY S.E.S.C. PERMIT)
- 2. COORDINATE ALL CONSTRUCTION ACTIVITIES, INCLUDING HOURS OF OPERATION, WITH THE CITY OF FERNDALE
- 3. SUPPLY, ERECT AND MAINTAIN TEMPORARY CONSTRUCTION FENCING AND BARRICADES AS REQUIRED TO PROVIDE FOR THE PROTECTION OF THE GENERAL PUBLIC.
- 4. PROVIDE ALL NECESSARY PROTECTION MEASURES, FENCING, BARRICADES, PLANKS, ETC. AS REQUIRED PER APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR ALL EXCAVATION, TRENCHING, AND ASSOCIATED HAZARDS.
- ALL CONSTRUCTION STAGING, MATERIALS STORAGE, CONSTRUCTION WASHING STATIONS, PROJECT MOCK-UP AREAS, AND ALL ASSOCIATED NEEDS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER FOR ALL CONSTRUCTION ACCESS POINTS. THE USE OF ADJACENT STREET R.O.W. WILL NOT BE PERMITTED FOR MATERIAL STAGING, STOCK PILING AND CONTRACTOR PARKING WITHOUT PRIOR WRITTEN CONSENT.
- FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, AS AMENDED, THE CONTRACTOR SHALL CALL "MISS DIG" AT 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS (72 HOURS), EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS, PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES INCLUDING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. "MISS DIG" MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
- 7. THE ACTUAL CONSTRUCTION LIMIT LINE IS AT THE R.O.W. LINE, PROPERTY LINE OR LIMITS OF DISTURBANCE. THE CONSTRUCTION LIMIT LINE IS GRAPHICALLY SHOWN OFFSET FROM THE R.O.W. LINE, PROPERTY LINE OR LIMITS OF DISTURBANCE TO ALLOW IT TO BE VISIBLE ON THE DRAWINGS.
- . TAKE GREAT CARE TO AVOID DAMAGE TO EXISTING SITE ELEMENTS THAT ARE TO REMAIN. REPAIR AND/OR REPLACE ANY SITE ELEMENT THAT IS TO REMAIN THAT IS DAMAGED BY CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST.
- 9. COORDINATE ALL UTILITY DEMOLITION WITH UTILITY SERVICE PROVIDERS, THE CITY OF FERNDALE, CONSUMER POWER, AND WATER AND SEWER AGE DEPARTMENT.
- 10. EXISTING SURVEY MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS. IN THE EVENT EXISTING MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE MONUMENTS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION AND PER CITY OF FERNDALE/ OAKLAND COUNTY REQUIREMENTS AT NO COST TO THE OWNER. NOTIFY OWNER OF ANY DISTURBED OR RESET MONUMENTS.
- 1. ANY MISCELLANEOUS LITTER AND DEBRIS INCLUDING SUCH ITEMS BUT NOT LIMITED TO: FOUNDATION AND ATTACHMENTS, TREE STUMPS AND ROOT STRUCTURES, PAVEMENT BASE MATERIAL, ABANDONED FENCES, ABANDONED PIPES, CONSTRUCTION DEBRIS, TRASH, ETC. IDENTIFIED ON THE PLANS AND ENCOUNTERED WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF LEGALLY OFF-SITE BY THE CONTRACTOR.
- 12. COORDINATE PAVEMENT REMOVAL, CURB REMOVAL, SIDEWALK REMOVAL, COLD MILLING, AND SAWCUT LINES WITH LAYOUT AND MATERIALS PLANS. NOTIFY ENGINEER OF ANY DISCREPANCIES. MARK SAW CUT LINES FOR APPROVAL BY ENGINEER PRIOR TO PROCEEDING WITH REMOVAL ACTIVITIES.
- 13. PAVEMENT AND CURB REMOVALS SHALL BE TERMINATED WITH A SAW CUT JOINT UNLESS THE REMOVAL LIMIT IS WITHIN 3 FEET OF AN EXISTING PAVEMENT OR CURB JOINT THEN THE REMOVAL SHALL BE EXPANDED TO THE JOINT.
- 14. FOR UTILITY STRUCTURE MODIFICATIONS AND ADJUSTMENTS REFER TO GRADING AND UTILITY PLANS.
- 15. PROTECT ALL EXISTING FIBER OPTIC AND COMMUNICATION LINES WITHIN THE PROJECT LIMITS. EXISTING FIBER OPTIC LINES WITHIN THE PROPERTY LIMITS MAY HAVE VERY SHALLOW BURIAL DEPTHS. IMMEDIATELY CONTACT UTILITY PROVIDER FOR ANY DISTURBANCES TO EXISTING LINES.
- 16. SAW CUT LINES FOR NEW PAVEMENT SHALL BE CUT STRAIGHT LEAVING A CONSISTENT, SMOOTH EDGE ALONG THE EXISTING PAVEMENT TO REMAIN.

 NEW PAVEMENT TO DIRECTLY ABUT EXISTING PAVEMENT TO REMAIN. IF NECESSARY OR AS DIRECTED BY THE ENGINEER RE-SAW CUT THE PAVEMENT IF

 THE EDGE OF THE PAVEMENT IS DAMAGED BY CONSTRUCTION ACTIVITIES. ADDITIONAL SAW CUTS AND THE REQUIRED ADDITIONAL PAVEMENT

 REPLACEMENT IS INCLUDED AS PART OF THE ORIGINAL PAY ITEM AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- 17. THE PROPOSED WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH ALL REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT, IN ADDITION TO PART 91 OF ACT 451 OF THE PUBLIC ACTS OF 1994 AS AMENDED, AND RULES PROMULGATED THEREUNDER.
- 18. ALL WORK REQUIRED TO SATISFY THE REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT COMMENTS NOT INCLUDED ON DRAWING SHALL BE COMPLETED AT NO COST TO THE OWNER.
- 19. PRIOR TO ANY CONSTRUCTION ACTIVITY, SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THESE DRAWINGS AND THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT. OAKLAND COUNTY PRIOR TO START OF WORK.
- 20. APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED AND AS DIRECTED ON THESE PLANS.
- 21. ALL EXISTING AND NEW STORM INLETS AND CATCH BASINS TO BE PROVIDED WITH INLET PROTECTION FABRIC DROP OR INLET PROTECTION GEOTEXTILE AND STONE AS APPROPRIATE AND PER MOOT DETAIL R-96-E.
- 22. ALL EARTH CHANGES SHALL BE CONSTRUCTED IN A MANNER THAT WILL EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
- 23. CONDUCT ALL EXCAVATION, EMBANKMENT, GRADING AND CLEANUP OPERATIONS IN A MANNER SUCH THAT SILTRACEOUS SOIL MATERIALS AND WATERBORNE OBJECTS ARE NOT DISCHARGED INTO ANY STORM SEWER DRAINAGE PIPE, OR UNDERGROUND UTILITY SYSTEM.
- 24. SOIL EROSION AND SEDIMENTATION EXTENDING BEYOND THE PROJECT LIMITS WILL NOT BE PERMITTED. ALL SOIL, MISCELLANEOUS DEBRIS, OR OTHER MATERIALS SPILLED, DUMPED, OR OTHERWISE DEPOSITED ON PUBLIC STREETS, HIGHWAYS, SIDEWALKS, OTHER PUBLIC THOROUGHFARES OR IN UNDERGROUND UTILITY SYSTEMS DURING TRANSIT TO OR FROM THE SITE SHALL BE REMOVED PROMPTLY BY THE CONTRACTOR AT NO ADDITIONAL COST.
- 25. WATER FROM TRENCHES AND OTHER EXCAVATIONS SHALL NOT BE PUMPED DIRECTLY INTO CATCH BASINS OR MANHOLES WITHOUT BEING PROPERLY FILTERED THROUGH AN APPROVED SEDIMENT BASIN OR DEWATERING FILTER BAG.
- 26. ALL VIOLATIONS OF THE SOIL EROSION PLAN SHALL BE CORRECTED WITHIN 24 HOURS OF NOTIFICATIONS BY THE ENGINEER TO ELIMINATE
- 27. INSPECT DAILY THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES AND MAKE ANY NECESSARY REPAIRS WITHOUT DELAY.
- 28. NO WETLANDS OR FLOODPLAINS ARE ON THE SITE.

REOCCURRENCES.

GRADING NOTES

- PROVIDE DRAINAGE AWAY FROM ALL PAVED SURFACES AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. ENSURE ALL AREAS WILL PROPERLY DRAIN TO NEAREST INLET WITHOUT STANDING OR PONDING WATER.
- NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE SURVEY GRADES AND THE ACTUAL SITE ELEVATIONS. ANY AREAS OF POOR DRAINAGE OR INADEQUATE DRAINAGE FROM PROPOSED IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL BE MODIFIED AS REQUIRED AND APPROVED.
- 3. MEET EXISTING GRADE WITHIN THE ROADWAY AT THE SAW CUT LINE.
- 4. PROVIDE MINIMUM CROSS-SLOPE OF 1%, MAXIMUM CROSS-SLOPE OF 2%, AND MAXIMUM LONGITUDINAL SLOPE OF 5% (EXCEPT WHERE NOTED) ON SIDEWALKS (INCLUSIVE OF ALL SPECIFIED TOLERANCES).
- GRADE ALL PAVEMENT SURFACES UNIFORMLY BETWEEN SPOT ELEVATIONS NOTED ON THE PLANS. (EXCEPT WHERE NOTED OTHERWISE)
- 6. ALL PERMANENT IMPROVEMENTS SHALL BE LOCATED WITHIN CITY OF FERNDALE/ OAKLAND COUNTY PROPERTY AND/OR PUBLIC RIGHT-OF-WAY.
- 7. SPOT ELEVATIONS NOTED FOR ADA SIDEWALK RAMPS ARE REFERENCE POINTS ONLY. THE ADA SIDEWALK RAMPS TO BE FIELD VERIFIED AND SHALL BE IN ACCORDANCE WITH MDOT SIDEWALK RAMP AND DETECTABLE WARNING DETAILS R-28-J (LATEST EDITION).
- 8. GRADE LONGITUDINAL GUTTER SLOPES UNIFORMLY BETWEEN SPOT ELEVATIONS AND AS ILLUSTRATED WITH DRAINAGE ARROWS ON THE PLANS. ENSURE PROPER DRAINAGE IS MAINTAINED ACROSS AND AWAY FROM ALL SIDEWALK, ADA RAMPS TO ENSURE WATER DOES NOT POND AT THE BASE OF THE RAMPS. ANY AREAS OF POOR DRAINAGE OR INADEQUATE DRAINAGE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL BE MODIFIED AS REQUIRED AND APPROVED. GRADING MODIFICATIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
- 9. REFERENCE CURB TRANSITIONS NOTED ON GRADING PLANS, AT SIDEWALK, ADA, RAMPS, AND ADJACENT TO DRIVEWAY/ALLEY APPROACHES. CURB TRANSITIONS SHALL BE MADE UNIFORMLY WITHOUT ABRUPT CHANGES OR IRREGULARITIES. ENSURE THAT THE TOP OF CURB ELEVATION IS THE SAME AT INTERSECTIONS WITH DIFFERENT CURB TYPES AND EXISTING CURBS.
- 10. CONTRACTOR TO VERIFY ALL EXISTING SPOT ELEVATIONS ALONG LIMITS OF EXISTING AND NEW PAVEMENT WHERE THE GRADING PLANS NOTE MEET EXISTING (M.E.). NOTIFY THE ENGINEER OF ANY INCONSISTENCIES, DRAINAGE ISSUES, OR SLOPE DISCREPANCIES.
- 11. TOP OF LIGHT POLE FOUNDATIONS SHALL BE 24 INCHES HIGHER THAN FINISH GRADE IN PARKING LOT, FLUSH OR RECESSED IN PEDESTRIAN PLAZA AREAS. REFER TO SPOT ELEVATIONS NOTED ON GRADING PLANS. COORDINATE AND ADJUST TOP OF LIGHT POLE FOUNDATION ELEVATIONS TO COORDINATE WITH ALL APPROVED GRADING MODIFICATIONS AS REFERENCED IN NOTES.
- 12. ALL MANHOLES, CATCH BASINS, AND YARD DRAINS SHALL BE 4' DIAMETER UNLESS OTHERWISE NOTED ON THE PLAN AND PROFILES.
- 13. PIPE LENGTHS SHOWN ARE ACTUAL. (C.L. MANHOLE TO C.L. MANHOLE 4' UNLESS NOTED)
- 14. STORM MANHOLE COORDINATES ARE CENTER OF STRUCTURE.
- 16. CURB INLET COORDINATES ARE AT CENTER OF STRUCTURE AT BACK OF CURB.

15. CATCH BASIN/YARD DRAIN COORDINATES ARE CENTER OF STRUCTURE.

LAYOUT AND MATERIALS NOTES

- 1. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND SITE CONDITIONS IN ADVANCE OF CONSTRUCTION ACTIVITIES AND INSTALLATION OF SITE ELEMENTS.
- 2. REFER TO ELECTRICAL PLANS FOR PEDESTRIAN LIGHTING AND ELECTRICAL IMPROVEMENTS.
- 3. ADA SIDEWALK, RAMPS TO BE 4 INCH THICK CONCRETE WITH MEDIUM BROOM FINISH.
- 4. CRUSHED CONCRETE WILL NOT BE ACCEPTED AND SHALL NOT BE USED FOR ANY OF THE AGGREGATE MATERIALS
- 5. ONCE WORK ON THE HMA PAVEMENT FOR A ROAD HAS BEGUN, THE CONTRACTOR SHALL MAINTAIN A CONTINUOUS OPERATION UNTIL THE WORK IS COMPLETE. TOP COURSE HMA SHALL BE PLACED ONLY AFTER ALL BASE REPAIRS, CONCRETE CURB REMOVALS AND REPLACEMENT, STRUCTURE ADJUSTMENT AND REPAIRS ARE COMPETED.

6. REFER BELOW FOR SIDEWALK ADA RAMPS:

- 6.1. PRIOR TO CONSTRUCTION, CONFIRM FIELD CONDITIONS OF THE PROPOSED GEOMETRY AND GRADE ELEVATIONS FOR ALL PROPOSED RAMP DESIGNS FOR ENGINEER REVIEW AND APPROVAL. PRIOR TO PROCEEDING WITH CONSTRUCTION OF SIDEWALK RAMPS, CONTRACTOR TO ENSURE COMPLIANCE WITH ALL REQUIREMENTS IDENTIFIED IN THE STANDARD MOOT DETAIL "SIDEWALK RAMPS AND DETECTABLE WARNING DETAILS" R-28-J (LATEST EDITION) AND SPECIAL PROVISIONS. OBTAIN APPROVAL FROM ENGINEER AND CITY INSPECTOR PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 6.2. SURVEY INFORMATION AND ASSOCIATED GRADE ELEVATIONS ARE NOT PROVIDED FOR ALL SIDEWALK RAMP LOCATIONS. THE PROPOSED RAMP DESIGNS MAY REQUIRE MINOR GRADE ADJUSTMENTS TO CONFORM TO THE ACTUAL FIELD CONDITIONS AND TO COMPLY WITH REQUIRED STANDARDS. VERIFY AND ADJUST WHERE REQUIRED THE GRADE ELEVATIONS TO ENSURE COMPLIANCE WITH MOOT STANDARDS. ENSURE THE BOTTOM OF THE RAMP HAS POSITIVE DRAINAGE AWAY FROM THE RAMP AND THAT IT IS COORDINATED WITH THE ADJACENT EXISTING LONGITUDINAL GUTTER SLOPE AND AS SHOWN ON THE GRADING PLANS.
- 6.3. ANY REQUIRED DEVIATIONS FROM RAMP LOCATION, ORIENTATION AND DESIGN AS SHOWN ON PLANS SHALL BE IDENTIFIED FOR REVIEW AND APPROVAL BY THE ENGINEER.
- 6.4. ADJACENT PAVEMENT JOINTING SHALL BE COORDINATED, REVIEWED, AND APPROVED PRIOR TO THE CONSTRUCTION OF THE RAMPS. WHERE APPLICABLE COORDINATE PAVEMENT JOINTING WITH THE LANDING GEOMETRY.
- 6.5. FOLLOWING RAMP CONSTRUCTION THE INSTALLED RAMP WILL BE INSPECTED BY THE OAKLAND COUNTY FOR VERIFICATION OF COMPLIANCE WITH MDOT STANDARDS. ALL NON-COMPLIANT RAMPS IDENTIFIED SHALL BE IMMEDIATELY REMOVED AND REPLACED AT NO ADDITIONAL COST UNTIL THE RAMP IS IN COMPLIANCE WITH MDOT REQUIREMENTS AND STANDARDS.
- 7. DIGITAL FILES TO BE MADE AVAILABLE TO THE SELECTED CONTRACTOR FOR CONTRACTOR STAKING REFERENCE; THE HARDCOPY OF THE BID DOCUMENTS TAKE PRECEDENCE AND SHALL BE THE OVERRIDING DOCUMENT FOR LAYOUT CONTROL.
- 8. NOTIFY THE ENGINEER OF ANY LAYOUT DISCREPANCIES FOR SUPPLEMENTAL DIRECTIONS.
- 9. ALL DIMENSIONS ARE FROM BACK OF CURB, EDGE OF PAVEMENT, OR CENTER OF FIXTURE UNLESS OTHERWISE NOTED.
- 10. THE LAYOUT AND ORIENTATION OF ALL PROPOSED SITE IMPROVEMENTS INCLUDING SITE FURNISHINGS AND SIGNAGE LOCATIONS SHALL BE FIELD APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. LOCATION AND ORIENTATION CHANGES WILL BE PROVIDED AT NO ADDITIONAL COST.
- 11. THERE SHALL BE 1/2" SEALED EXPANSION JOINT AT ALL CURB/SIDEWALK, BUILDING/SIDEWALK, LIGHT POLE, OR ANY OTHER FIXED OBJECTS (I.E. EXISTING PAVEMENT, WALLS, POLES, FOUNDATIONS), JOINTING PLANS DO NOT SHOW EVERY REQUIRED SEALED EXPANSION JOINT.
- 12. CONTROL JOINTS AND SEALED EXPANSION JOINTS TO ALIGN WITH ADJACENT PAVEMENT, CURBS, WALLS, ETC UNLESS OTHERWISE NOTED ON THE PLANS. ALIGN JOINTS PERPENDICULAR TO PAVEMENT EDGE AND ALIGN WITH CENTER POINTS OF ARCS, AS SHOWN.

WILSON PARK IMPROVEMENT PROJECT

1280 HILTON ROAD FERNDALE, MI 48220 26-01872 LAND & WATER CONSERVATION FUND

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FERNDALE PARKS AND RECREATION DEPARTAMENT

SMITHGROUP

201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroup.com

SEALS AND SIGNATURES



KEY PLAN

RAWING TITLE

GENERAL NOTES

NO SCALE

SCALE

14337

PROJECT NUMBER

DRAWING NUMBER

G1

ISS DIG 811.

UTILITY NOTES

GENERAL UTILITY NOTES:

- 1. THE CONTRACTOR SHALL GIVE NOTIFICATION, 48 HOURS PRIOR TO CONSTRUCTION, OF THE INTENTION TO BEGIN CONSTRUCTION TO THE JURISDICTIONAL AGENCIES.
- 2. THE CONTRACTOR SHALL COORDINATE WITH OAKLAND COUNTY ON REQUIRED PERMITS.
- CONTRACTOR SHALL CONTACT MISSDIG (800-428-7171) A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION FOR LOCATION OF ALL UNDERGROUND FACILITIES.

UTILITY PERMIT NOTES

- 1. STORM SEWER WORK INDICATED ON THESE DRAWINGS SHALL REQUIRE A OAKLAND COUNTY SEWERAGE DEPARTMENT PERMIT TO BE OBTAINED BY THE CONTRACTOR. NOTIFY AND COORDINATE WITH DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO THE INITIATION OF STORM SEWER CONSTRUCTION
- 2. WHEN CONSTRUCTION OF STORM SEWER WORK IS COMPLETED, PROVIDE A MYLAR REPRODUCABLE COPY OF THE AS-BUILT IMPROVEMENTS FOR STORM SEWER TO OAKLAND COUNTY DRAIN COMMISSION AND ENGINEER.

UTILITY NOTES:

- 1. IN COMPLIANCE WITH PUBLIC ACT 53 OF THE STATE OF MICHIGAN (EFFECTIVE) AUGUST 1, 1974, AS AMENDED, NOTIFY IN ADVANCE OF CONSTRUCTION (72 HOURS/ 3 WORKING DAYS) ALL PUBLIC AND PRIVATE UTILITY PROVIDERS HAVING FACILITIES IN OR NEAR THE IMMEDIATE WORKING AREA FOR CONVENIENCE ARE IDENTIFIED ON THE ENCLOSED UTILITY PROVIDER LIST. THE LISTING DOES NOT, HOWEVER, RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF VERIFYING THE UTILITY LOCATIONS AND NOTIFYING ALL UTILITY OWNERS AND MISS DIG (1-800-482-7171).
- 2. VERIFY EXISTING UTILITY LINE AND STRUCTURE LOCATIONS AND DEPTHS IN THE FIELD. REPORT DISCREPANCIES BETWEEN FIELD CONDITIONS AND SURVEY TO THE ENGINEER.
- 3. REPLACE SIDEWALKS, CURBS AND PAVEMENT DISTURBED AS PART OF UTILITY WORK OR OTHER CONSTRUCTION ACTIVITIES AND MATCH EXISTING CONDITIONS. PAVEMENT REMOVAL TRENCHING, BACKFILL, PAVEMENT REPLACEMENT AND OTHER ASSOCIATED WORK AND MATERIALS REQUIRED FOR THE ADJUSTMENT, REMOVAL, REPLACEMENT AND INSTALLATION THAT IS NOT SHOWN ON THE DEMOLITION PLANS OR MATERIAL PLANS SHALL BE INCIDENTAL TO THE UTILITY LINE AND/OR STRUCTURE PAY ITEM.
- MAINTAIN 10' MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION BETWEEN STORM, SANITARY, AND WATER LINES.

UTILITY ADJUSTMENT NOTES:

- 1. UTILITY ADJUSTMENTS REQUIRED TO COMPLETE THE PROJECT ARE TO BE COORDINATED BY THE CONTRACTOR WITH THE INDIVIDUAL UTILITY PROVIDERS.
- 2. REVIEW, PERMIT AND INSPECTION FEES REQUIRED TO PERFORM THE UTILITY WORK SHALL BE COORDINATED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE BID.
- 3. ADJUST ALL SEWER, WATER AND ELECTRICAL STRUCTURES OR INFRASTRUCTURE AS INDICATED ON DRAWINGS. COORDINATE WITH APPROPRIATE CITY/COUNTY DEPARTMENTS AS NECESSARY.
- . COORDINATE ADJUSTMENT OF ALL GAS, STEAM, FIBER AND COMMUNICATION STRUCTURES OR INFRASTRUCTURE WITH APPROPRIATE UTILITY PROVIDER. APPROPRIATE UTILITY PROVIDER TO MAKE ANY ADJUSTMENTS TO GAS, STEAM, FIBER AND COMMUNICATION STRUCTURES AS NECESSARY.

STORM SEWER CONSTRUCTION NOTES:

- 1. SEWER WORK ON THESE DRAWINGS SHALL BE COORDINATED WITH THE OAKLAND COUNTY DRAIN COMMISSION AND MDEQ.
- 2. ALL SEWER MANHOLES SHALL BE PRECAST CONCRETE IN ACCORDANCE WITH ASTM C478 WITH ECCENTRIC CONE OR FLAT-SLAB-TOP AS INDICATED.
- 3. PIPE CONNECTORS AT MANHOLES TO BE IN ACCORDANCE WITH ASTM C923, OR PER PIPE MANUFACTURER'S AND COUNTY SPECIFICATIONS
- SEWER PIPE TO BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76, CLASS IV, WALL B, MINIMUM INSIDE DIAMETER TO BE 8 INCHES OR PVC, ASTM D3034. SDR26 FOR SIZES 8 INCHES AND SMALLER.
- 5. PROPOSED INVERT FOR NEW SEWER CONNECTIONS TO EXISTING PIPES NOT AT EXISTING MANHOLES ARE ESTIMATED. VERIFY INVERT ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- 6. EXISTING OUTLET SEWER INVERT ELEVATIONS TO BE FIELD VERIFIED.
- 7. EXTENSIONS OF EXISTING SEWER PIPE TO BE PERFORMED USING PIPE MATERIALS AND DIAMETERS TO MATCH THE EXISTING SEWER.
- 3. CONSTRUCT ALL TAPS TO EXISTING SEWERS WHERE TAPPING PIPE SIZE IS EQUAL TO OR LARGER THAN HALF OF EXISTING SEWER SIZE WITH A TEE OR WYE CONNECTION. CONSTRUCT ALL TAPS TO EXISTING SEWERS WHERE TAPPING PIPE SIZE IS LESS THAN HALF OF THE EXISTING SEWER SIZE WITH DIRECT TAPS.
- 9. FOR ALL DIRECT TAPS TO EXISTING STRUCTURES, FIELD CORE DRILL EXISTING STRUCTURE TO ACCOMMODATE PROPOSED PIPE SIZE. GROUT PIPE
- 10. ALL MANHOLE AND CATCH BASIN COVERS SHALL BE BOLTED DOWN.

OPENING TO BE WATERTIGHT.

SUBBASE UNDERDRAINS TO BE PERFORATED, CORRUGATED POLYETHYLENE PIPE CONFORMING TO AASHTO M252. UNDERDRAIN TO HAVE A
GEOSYNTHETIC OUTER COVERING (SOCK WRAP). CONNECT UNDERDRAINS TO SEWER STRUCTURES INDICATED.

MAINTENANCE OF TRAFFIC NOTES

- 1. THE CONSTRUCTION INFLUENCE AREA (CIA) SHALL INCLUDE THE AREA WITHIN THE RIGHT-OF-WAY OF THE CONSTRUCTION LIMITS, ALL PROPERTIES ADJACENT TO THE CONSTRUCTION LIMITS, AND ALL STREETS LISTED IN THE SPECIAL PROVISIONS. MAINTENANCE OF TRAFFIC MEASURES SHALL BE PROVIDED FOR THE ENTIRE CIA.
- PROVIDE ALL NECESSARY PROTECTION MEASURES INCLUDING ALL NECESSARY FENCING, BARRICADES, SIGNAGE, TEMPORARY PAVEMENT MARKINGS, PLASTIC DRUMS, LIGHTED ARROWS, TRAFFIC REGULATOR CONTROL, AND ALL NECESSARY MINOR TRAFFIC DEVICES WITHIN THE CIA TO ENSURE A SAFE, CLEARLY DEFINED, CONSTRUCTION AREA. INSTALL THE TRAFFIC MAINTENANCE MEASURES PRIOR TO INITIATING CONSTRUCTION AND MAINTAIN THEM UNTIL THE PROJECT IS ENTIRELY COMPLETED. TRAFFIC SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN ACCORDANCE WITH MOOT STANDARDS.
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) (LATEST EDITION).

 TRAFFIC CONTROL DEVICES SHALL BE PAID FOR PER APPLICABLE TRAFFIC MAINTENANCE PAY ITEMS IDENTIFIED ON THE PLANS. ALL OTHER REQUIRED TRAFFIC CONTROL DEVICES, ACTIVITIES, MATERIALS, LABOR, AND EQUIPMENT TO BE PAID FOR AS PART OF MINOR TRAFFIC DEVICES.
- 4. TRAFFIC ON PUBLIC ROADS SHALL NOT BE OBSTRUCTED EXCEPT AS AUTHORIZED BY PERMIT. CONTRACTOR SHALL SECURE AND COMPLY WITH ALL REQUIREMENTS OF ALL PERMITS REQUIRED INCLUDING THE CITY OF FERNDALE/ OAKLAND COUNTY, TED, AND MDOT AS APPLICABLE. OBTAIN PERMIT FROM TED FOR NECESSARY ROAD LANE CLOSURES, LANE SHIFTS OR TRAFFIC CIRCULATION MODIFICATIONS FOR WORK WITHIN THE PUBLIC RIGHT OF WAY. PREPARE AND OBTAIN APPROVAL OF MAINTENANCE AND TRAFFIC PROTECTION PLANS IN ACCORDANCE WITH THE CURRENT REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF FERNDALE/ OAKLAND COUNTY, MDOT, & ALL APPLICABLE FEDERAL, STATE AND COUNTY AGENCIES.
- 5. PROVIDE TRAFFIC CONTROL AND APPROPRIATE SIGNAGE TO MAINTAIN A MINIMUM OF ONE VEHICULAR TRAVEL LANE IN EACH DIRECTION UNLESS OTHERWISE NOTED ON PLANS AND/OR AS PERMITTED. MAINTAIN TRAFFIC FLOW ACROSS AND THROUGH INTERSECTIONS. TEMPORARY LANE CLOSURES AND SHORT TERM CLOSURES OF INTERSECTIONS (OR PORTIONS OF INTERSECTIONS) TO BE BY PERMIT AND AS APPROVED BY TED AND MDOT. TEMPORARY STEEL PLATING AND BRIDGING OF TRENCHES AND UTILITY WORK SHALL BE PROVIDED AS REQUIRED AND AS REQUESTED BY THE ENGINEER TO MAINTAIN TRAFFIC FLOW AND TO MINIMIZE TIME PERIODS FOR TEMPORARY LANE AND INTERSECTION CLOSURES.
- 6. NOTIFY THE ENGINEER, AND THE LOCAL POLICE AND FIRE DEPARTMENTS PATROLLING THE CIA A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO MAKING ANY ADDITIONS OR MODIFICATIONS TO TRAFFIC CONTROL MEASURES AND TEN (10) BUSINESS DAYS PRIOR TO ANY ROAD OR INTERSECTION CLOSURES.
- 7. COORDINATE ALL CONSTRUCTION ACTIVITIES, INCLUDING HOURS OF OPERATION WITH THE CITY OF FERNDALE/ OAKLAND COUNTY AND AS APPLICABLE INDIVIDUAL PROPERTY OWNERS.
- 8. TRUCK HAUL ROUTES TO BE SUBMITTED FOR REVIEW AND APPROVAL TO CITY OF FERNDALE/ OAKLAND COUNTY PRIOR TO START OF CONSTRUCTION AND SHALL BE SUBJECT TO REGULATIONS AND REQUIREMENTS IMPOSED BY THE CITY OF FERNDALE.
- 9. SUPPLY, ERECT AND MAINTAIN TEMPORARY CONSTRUCTION FENCING AND BARRICADES AS REQUIRED TO PROVIDE FOR THE PROTECTION OF THE GENERAL PUBLIC.
- 10. ALL SOIL, MISCELLANEOUS DEBRIS, OR OTHER MATERIALS SPILLED, DUMPED, OR OTHERWISE DEPOSITED ON PUBLIC STREETS, SIDEWALKS, OR OTHER AREAS DURING TRANSIT TO OR FROM THE SITE SHALL BE REMOVED PROMPTLY. ALL STREETS SHALL BE SCRAPED AND SWEPT AS NEED AND AS DIRECTED BY THE ENGINEER (DAILY IF NECESSARY) TO ENSURE A CLEAN AND SAFE PROJECT.
- 11. PRIOR TO OPENING UP CONSTRUCTION AREAS TO PEDESTRIAN CIRCULATION ENSURE A SAFE AND CLEARLY DEFINED PATHWAY WITH A STABLE SURFACE, DEFINED LIMITS WITH CONSTRUCTION FENCING AND/OR OTHER PROTECTION MEASURES AS NECESSARY. PROVIDE TEMPORARY AGGREGATE BASE AS NECESSARY AND AS REQUESTED BY THE ENGINEER. ENSURE ALL CONSTRUCTION IMPROVEMENTS ARE IN A SAFE CONDITION WITHOUT OPEN TRENCHES, TRIPPING HAZARDS, DEBRIS, CONSTRUCTION MATERIALS, OR OTHER UNSAFE CONDITION.
- 12. PRIOR TO LEAVING THE CONSTRUCTION SITE AT THE END OF EVERY WORK DAY, THE CONTRACTOR SHALL ENSURE THAT ALL NECESSARY TRAFFIC CONTROL MEASURES ARE IN PLACE AND OPERATING AS NECESSARY TO ENSURE A SAFE CIA.

SIGNAGE AND STRIPING NOTES

- ALL SIGNAGE AND STRIPING SHOWN ON THESE PLANS SHALL BE COORDINATED WITH OAKLAND COUNTY AND PER THE REQUIREMENTS OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) LATEST EDITION EXCEPT AS AMENDED BY SPECIAL PROVISIONS.
- SIGN PLACEMENT SHALL BE INSTALLED TO PROVIDE A MINIMUM OF 1'-0" OF CLEARANCE FROM THE EDGE OF PAVEMENT TO THE CLOSEST EDGE OF THE FACE OF THE SIGN OR AS DIRECTED BY THE COUNTY.
- 3. PLACEMENT OF REGULATORY AND ADVANCE WARNING SIGNS TO BE COORDINATED WITH THE COUNTY.
- 4. LAYOUT OF ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE STAKED BY THE CONTRACTOR FOR COUNTY APPROVAL IN ADVANCE OF INSTALLATION.
- CROSSWALK STRIPING SHALL ALIGN WITH AND CENTER ON THE SIDEWALK ADA RAMPS UNLESS OTHERWISE SHOWN. FIELD VERIFY THE ALIGNMENT WITH ENGINEER PRIOR TO INSTALLATION.
- ALL PAVEMENT MARKINGS AND SYMBOLS SHALL BE CENTERED IN EACH LANE UNLESS OTHERWISE SHOWN.
- 7. ALIGN ALL SIGN FACES PERPENDICULAR TO CENTERLINE OF ROAD AND SHARED USE PATH AS SHOWN ON PLANS
- CONTRACTOR SHALL REFER AND ADHERE TO THE MOST RECENT VERSION OF MDOT "PAVEMENT ARROW DETAILS" AND "TYPICAL SPACING OF ARROW AND PAVEMENT MESSAGES" MDOT PAVE-900-F FOR THE LATEST COMPLIANT MARKINGS AND DIMENSIONAL REQUIREMENTS.

GENERAL NOTES

- 1. PRIOR TO START OF PROJECT WORK, VERIFY SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE LANDSCAPE ARCHITECT FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
- 2. NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF IDENTIFIED DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF WORK. DURING PERFORMANCE OF THE WORK, VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE AND CROSS-CHECK DETAILS AND DIMENSION SHOWN ON THE DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO STARTING WORK. IN CASES WHERE A CONFLICT MAY OCCUR, THE ARCHITECT SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
- 3. PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION
- . TAKE NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC.
- 5. SECURE NECESSARY PERMITS AND NOTIFY UTILITY COMPANIES WITH UTILITIES ON THE SITE PRIOR TO THE CONSTRUCTION OF THE PROJECT. ADHERE TO APPLICABLE LOCAL, STATE AND FEDERAL LAWS OR REGULATIONS PERTAINING TO THE PROJECT.
- 6. ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE.
- USE DIMENSIONS SHOWN ON DRAWINGS FOR LAYOUT OF THE WORK. DO NOT USE SCALE DIMENSIONS FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- 8. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
- DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.
- 10. TAKE NOTE OF GRADING AND DRAINAGE WAYS AND MAINTAIN THESE DRAINAGE WAYS TO FLOW FREE OF OBSTRUCTIONS.

AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION.

- 11. COORDINATE CONSTRUCTION OF PENETRATIONS, SLEEVES, VARIATIONS IN THE SLAB ELEVATIONS, DEPRESSED AREAS AND OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS.
- 12. DISPOSE ELEMENTS DESIGNATED FOR REMOVAL IN A LEGAL MANNER. PROVIDE RECEIPTS AND LETTERS FROM DISPOSAL SITES TO OWNER AS REQUIRED BY THE OWNER.
- 13. PREPARE SUBGRADES IN ACCORDANCE WITH RECOMMENDATIONS OF GEOTECHNICAL ENGINEER. PROVIDE PROOF OF REQUIRED SOIL COMPACTION TO
- 14. CONSTRUCTION SHALL CONFORM TO APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- 15. COORDINATE WORK OF SUBCONTRACTORS AND OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK.

PLANTING NOTES

- LANDSCAPE ARCHITECT WILL REVIEW PLANT MATERIAL AND RESERVES THE RIGHT TO REJECT ANY MATERIAL THAT DOES NOT MEET THE SPECIAL PROVISIONS, PLANT LIST, OR DESIGN REQUIREMENTS OF THE PROJECT. PLANTS INSTALLED THAT DO NOT COMPLY TO BE IMMEDIATELY REMOVED.
- 2. ALL MATERIAL SUPPLIED FOR AN INDIVIDUAL ITEM ON THE PLANT LIST SHALL MATCH SIZE, SHAPE, FORM, AND NOTED REQUIREMENTS. IN ADDITION THE PLANT MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND SUPPLEMENTARY REQUIREMENTS IN THE SPECIAL PROVISIONS.
- 3. LANDSCAPE ARCHITECT SHALL REVIEW PLACEMENT OF PLANT MATERIAL PRIOR TO INSTALLATION, AND RESERVES THE RIGHT TO ADJUST LAYOUT TO ACCOMMODATE SITE CONDITIONS AND DESIGN INTENT AT NO ADDITIONAL COST. ALL PLANTINGS SHALL BE INSTALLED IN A LOGICAL SEQUENCE WITHIN THE SAME PLANTING TIME FRAME. IF THE PLANT MATERIAL IS INSTALLED WITHOUT PRIOR APPROVAL THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REQUEST LAYOUT ADJUSTMENTS AT NO ADDITIONAL COST.
- 4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT PLANTS AND ENSURE HEALTH AND PLANT QUALITY DURING SHIPMENT, HANDLING, INSTALLATION AND ESTABLISHMENT.
- 5. ALL LANDSCAPE BEDS SHALL RECEIVE 12" OF PLANTING MIX UNLESS NOTED OTHERWISE.
- 6. ALL PLANTINGS SHALL RECEIVE A MIN. OF 3" OF DOUBLE PROCESSED SHREDDED HARDWOOD BARK MULCH, WHERE LANDSCAPE BEDS MEET PAVEMENTS OR LAWNS, CUT THE GRADE TO ALLOW FOR MULCH AND 1" DROP FROM THE ADJOINING FINISH GRADE. KEEP MULCH 4" FROM TREE TRUNKS AND SHRUB CROWNS.
- 7. ALL DISTURBED SEEDING AREAS SHALL RECEIVE A MINIMUM OF 4" DEEP TOPSOIL. TOPSOIL REMOVED DURING DEMOLITION / SITE PREPARATION CAN BE RE-USED. ADDITIONAL TOPSOIL REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR FROM OFF SITE SOURCES.
- 8. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER. INSTALLATION OF LARGER PLANTS AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK".
- PRIOR TO INSTALLATION, DEMARCATE LAYOUT OF ALL PLANTING BEDS, SEED AREAS, AND INDIVIDUAL TREES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. INCLUDE PERENNIAL GROUPINGS BY SPECIES FOR INTERNAL BED LAYOUTS. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. THE ENGINEER WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAY MAKE MINOR ADJUSTMENTS AS NECESSARY. SUCH ADJUSTMENTS WILL BE AT NO ADDITIONAL COST TO THE OWNER.
- 10. SEEDING APPLIES TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND THE APPROXIMATED SEEDING LIMITS INDICATED ON THE DRAWINGS. REPAIR ANY DISTURBED AREAS TO THE SAME CONDITION AS ORIGINALLY FOUND AND TO THE OWNER'S SATISFACTION. IN AREAS WHERE LAWN IS DISTURBED BEYOND THE LIMITS OF CONSTRUCTION, REPLACE LAWN WITH NEW SEED (INCLUDING TOPSOIL, SEED AND MULCH) AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATIONS FOR SEED MIXES.
- 11. UTILIZE HORTICULTURAL TREE WATERING BAGS FOR TREES PLANTED THROUGHOUT WARRANTY PERIOD. REPLENISH TREE WATERING BAGS REGULARLY SO THAT NONE REMAIN WITHOUT WATER FOR MORE THAN 24 HOURS.
- 12. REFER TO SEDIMENT AND EROSION CONTROL DRAWINGS FOR EROSION CONTROL MEASURES.
- 13. LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE.
- 14. MINIMIZE CULTIVATION WITHIN THE DRIP LINES OF EXISTING TREES. PREPARE SOIL FOR SEEDING AREAS BY MINIMIZING DISTURBANCE TO 4 INCH DEPTH. HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIP LINE OF EXISTING TREES.
- 15. CONTRACTOR SHALL MARK PERENNIAL BED EDGES WITH MARKER PAINT PRIOR TO INSTALLATION FOR APPROVAL BY ENGINEER. ALL LANDSCAPE EDGING SHALL BE INSTALLED AS SHOWN ON DRAWINGS AND SHALL BE STRAIGHT, CONSISTENT, WITH EVEN RADIUS/CURVES AND FREE OF IRREGULARITIES IN ALIGNMENT.
- 16. REFER TO SITE PREPARATION PLANS FOR TREE REMOVALS AND TREE PRUNING.
- 17. CONTRACTOR TO LAY OUT ONE LANDSCAPE BED AS A MOCKUP FOR OWNER/LANDSCAPE ARCHITECT REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH PLANTING THE LANDSCAPE BEDS. ADJUSTMENTS TO THE PLANTING LAYOUT MAY BE REQUESTED AT NO ADDITIONAL COST IN ORDER TO ENSURE A SATISFACTORY BLENDING OF PLANT MATERIAL TO CREATE THE DESIRED PLANTING ARRANGEMENT. THE APPROVED LANDSCAPE BED MOCKUP SHALL BE USED AS THE MODEL AND STANDARD OF REFERENCE FOR ALL SUBSEQUENT LANDSCAPE BEDS.

WILSON PARK IMPROVEMENT

1280 HILTON ROAD FERNDALE, MI 48220 26-01872 LAND & WATER CONSERVATION FUND

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FERNDALE PARKS AND RECREATION DEPARTAMENT

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ISSUE FOR BID		11/15/23
MDNR REVIEW 4		8/21/23
MDNR REVIEW 3		7/5/23
MDNR REVIEW 2		5/31/23
SESC PERMIT		3/21/23
MDNR REVIEW		3/31/23
PARK DISTRICT REVIEW		1/31/23

SEALS AND SIGNATURES



KEY PLAN

DRAWING TITLE

GENERAL NOTES

NO SCALE

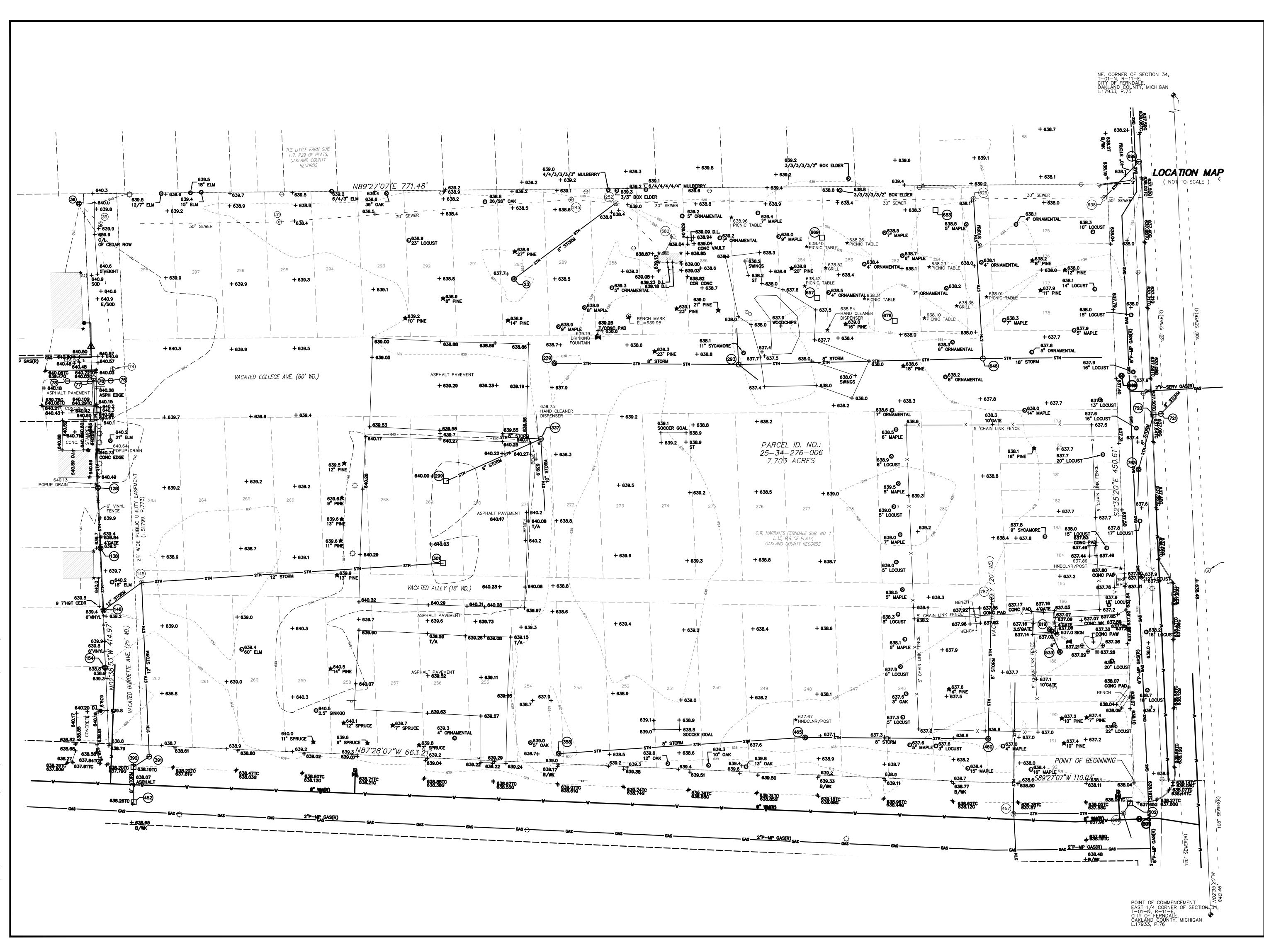
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PROJECT NUMBER

C101





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Executive:	C.A.A.
Manager:	C.A.A.
Designer:	J.A.B.
Quality Control:	Reviewer
Section:	Section
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SCALE: 1" = 30'

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TOPOGRAPHIC SURVEY

WILSON PARK

CITY OF FERNDALE OAKLAND COUNTY MICHIGAN

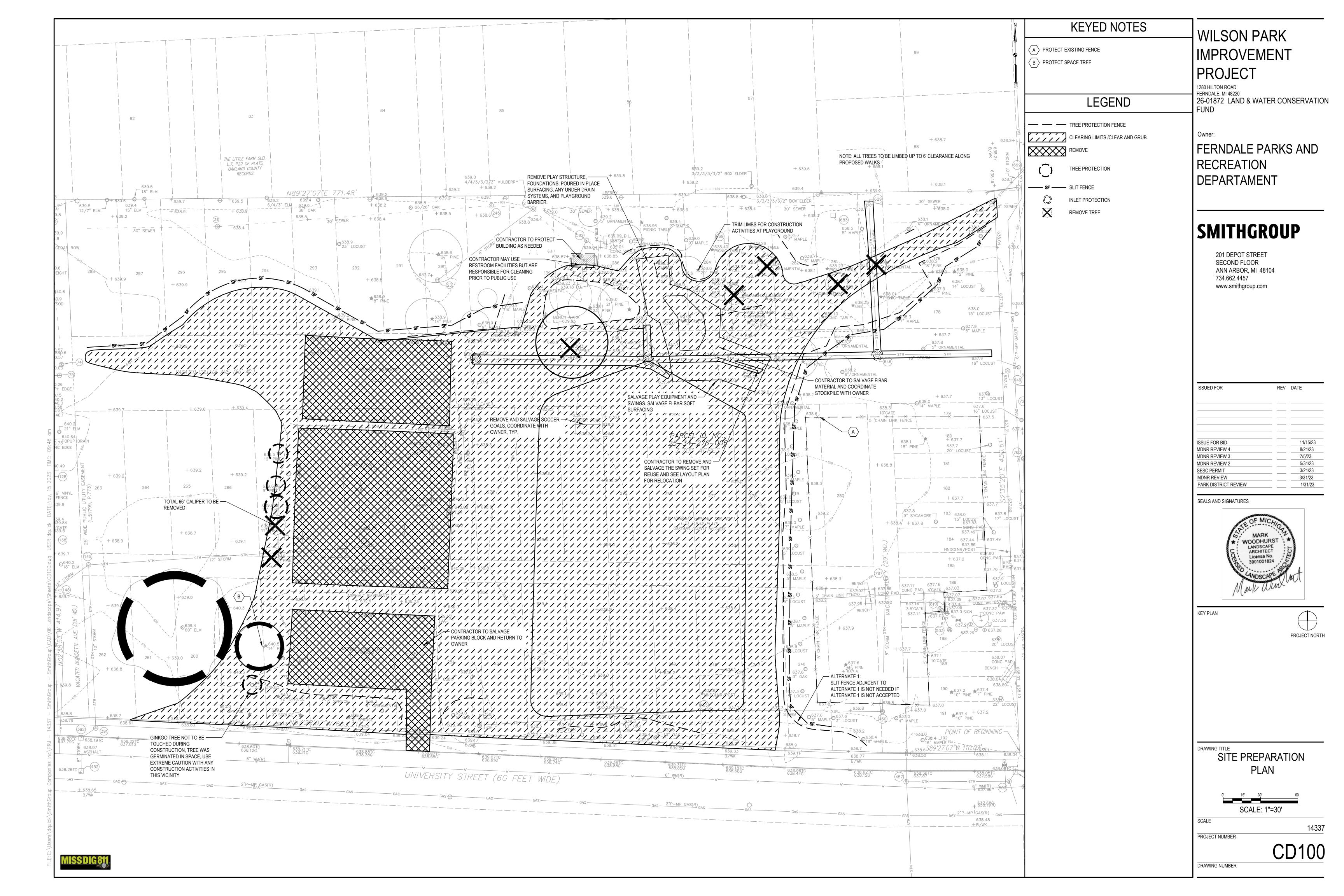
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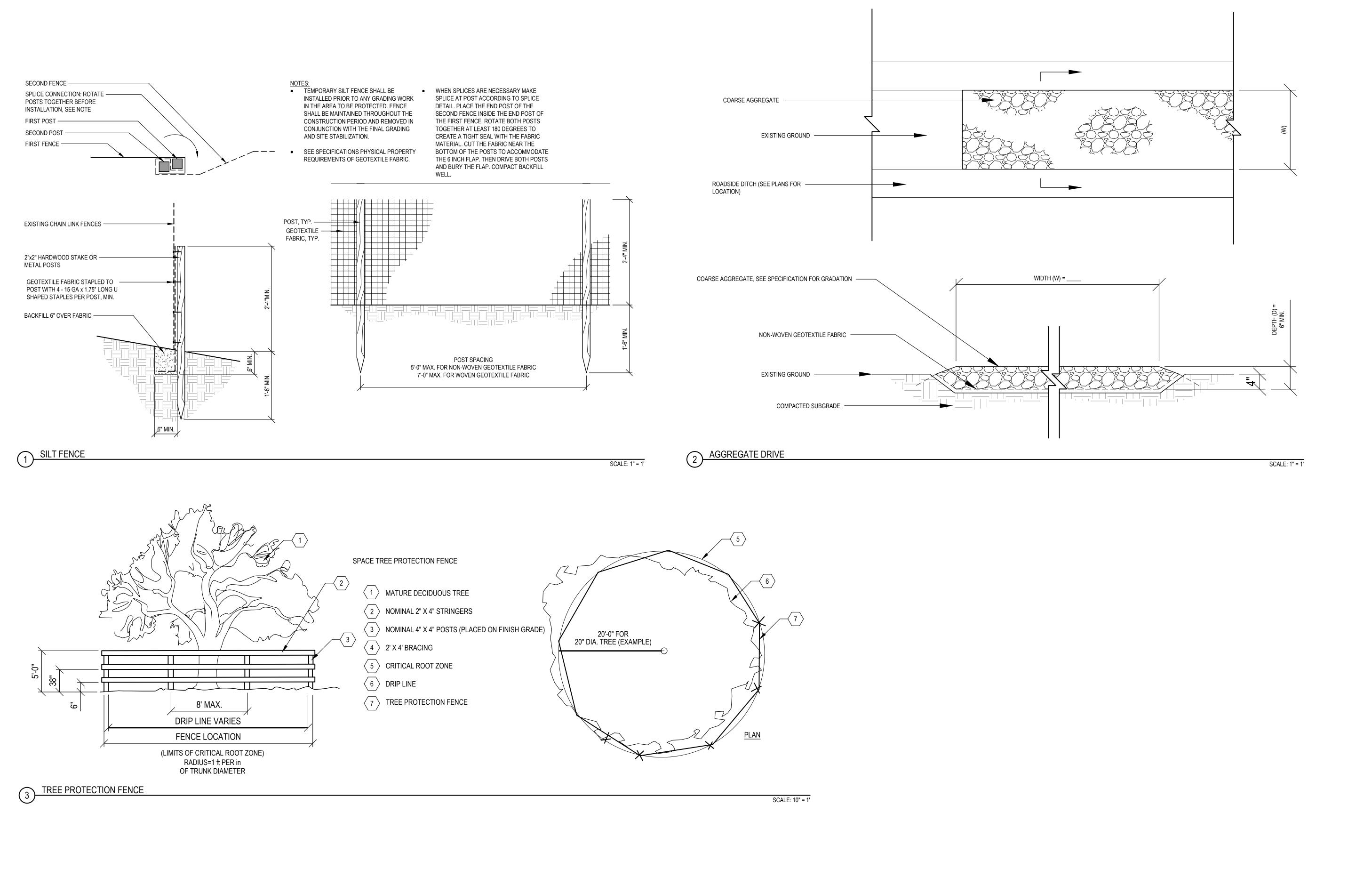
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SEALS AND SIGNATURES



KEY PLAN



SITE PREPARATION
DETAILS

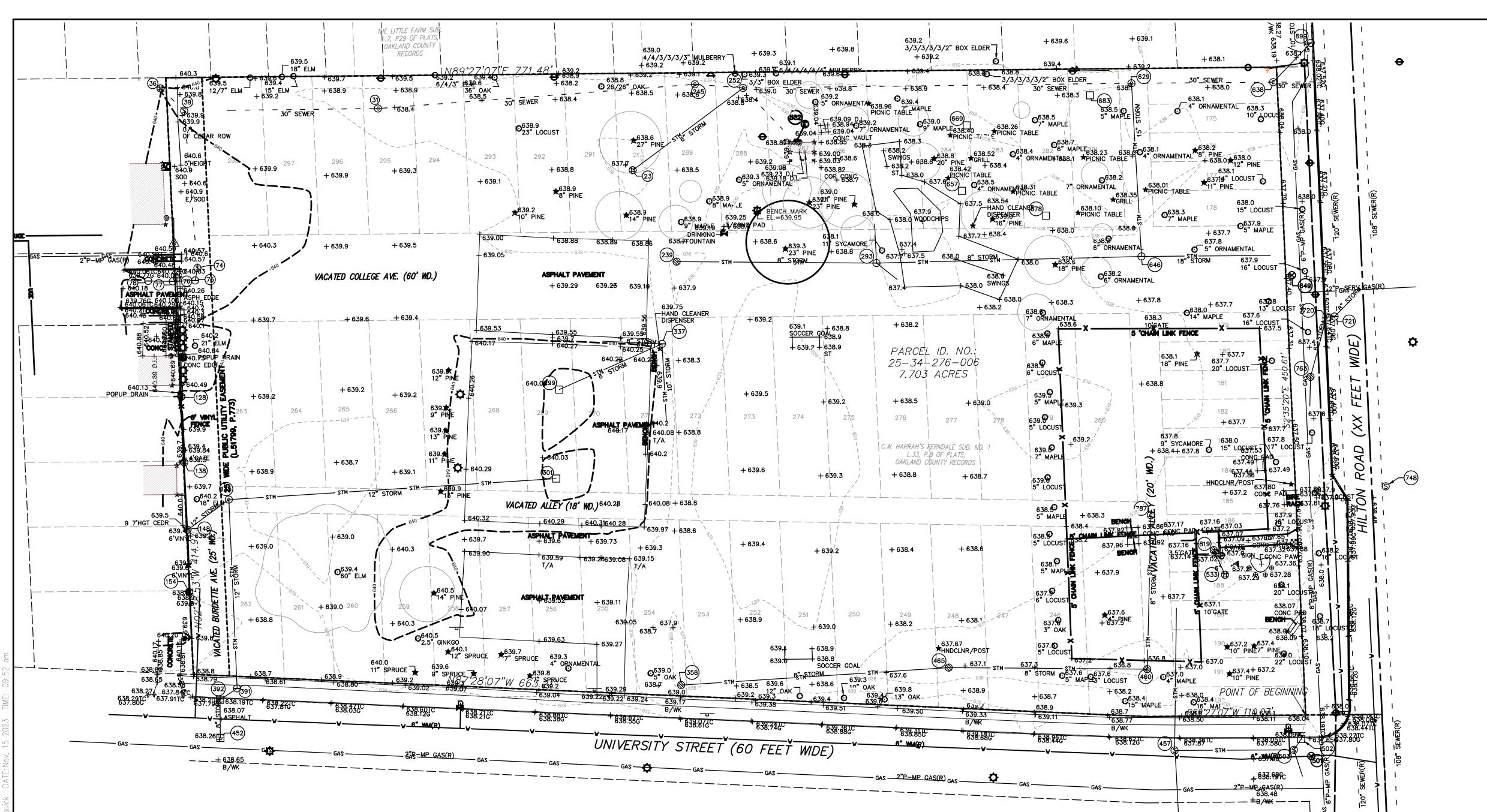
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- A. THE CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS, APPROVED S.E.S.C. PLANS, PERMIT CONDITIONS AND WITH PARTS 31 AND 91 OF PUBLIC ACT 451 OF 1994. THE OWNER SHALL OBTAIN A SOIL EROSION AND SEDIMENTATION CONTROL (S.E.S.C.) PERMIT FROM THE APPROPRIATE COUNTY ENFORCING AGENCY (C.E.A.). PERMIT FEES AND ROUTINE INSPECTIONS CHARGED BY THE M.E.A./C.E.A. WILL BE PAID FOR BY THE CONTRACTOR.
- B. PRIOR TO BEGINNING ANY EARTH CHANGE, THE CONTRACTOR SHALL RETAIN A D.E.Q. CERTIFIED STORM WATER OPERATOR (C.S.W.O.) TO PROVIDE THE REQUIRED S.E.S.C. REPORTS (WHICH INCLUDE THE WEEKLY AND STORM EVENT REPORTS AS WELL AS ALL FOLLOW UP REPORTS FOR BOTH VIOLATIONS AND STORM EVENT CORRECTIONS) ON THE STANDARD D.E.Q. FORM. THE CONTRACTOR SHALL PROVIDE THE REPORTS TO THE OWNER ON A WEEKLY BASIS, AND RETAIN THOSE REPORTS FOR THREE YEARS.
- C. PRIOR TO BEGINNING ANY EARTH CHANGE, THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL S.E.S.C. MEASURES AS SHOWN ON THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE OWNER, C.S.W.O., M.E.A./C.E.A. OR D.E.Q. AT ANYTIME DURING THE LIFE OF THE CONTRACT OR UNTIL COUNTY OFFICIALLY TAKES OVER RESPONSIBILITY FOR THE SITE. IMMEDIATELY PRIOR TO COUNTY TAKING RESPONSIBILITY FOR THE SITE, THE CONTRACTOR WILL BE REQUIRED TO CLEAN ALL CATCH BASINS AFFECTED BY THE CONSTRUCTION, BOTH WITHIN THE CONTRACT LIMITS AND ALL SURROUNDING ROADS AND LAWN AREAS WHERE SOIL MAY HAVE SPREAD AS THE RESULT OF CONSTRUCTION ACTIVITIES.
- D. THE CONTRACTOR SHALL CONDUCT ALL EXCAVATION, FILLING, GRADING, AND CLEANUP OPERATIONS IN A MANNER SUCH THAT SEDIMENT, GENERATED BY WIND OR WATER, IS NOT DISCHARGED INTO ANY STORM SEWER, DRAINAGE DITCH, RIVER, LAKE, AIR, OR UNDERGROUND UTILITY SYSTEM. STAGE WORK TO MINIMIZE THE AREA OF EXPOSED SOIL, THEREBY REDUCING THE OPPORTUNITY FOR SOIL EROSION.
- E. WATER FROM TRENCHES AND OTHER EXCAVATION SHALL BE PUMPED INTO A FILTRATION BAG TO REMOVE SEDIMENTS FROM THE WATER.
- F. IF SEDIMENT EXTENDS BEYOND THE PROJECT LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND RESTORATION OF ALL SURFACES AND UTILITY SYSTEMS TO THE CONDITION THAT EXISTED PRIOR TO THE CONTRACT AWARD.
- G. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL S.E.S.C. MEASURES ON A DAILY BASIS.
- H. SHOULD VIOLATIONS BE IDENTIFIED BY THE OWNER, C.S.W.O., M.E.A./C.E.A. OR D.E.Q., THEY SHALL BE CORRECTED WITHIN 24 HOURS OF NOTIFICATION. THE CORRECTION(S) SHALL BE APPROVED BY THE OWNER, C.S.W.O., C.E.A. OR D.E.Q. ALL SUBSEQUENT INSPECTIONS PERFORMED BY THE OWNER, C.S.W.O., C.E.A. OR D.E.Q. AS A RESULT OF THE VIOLATION (AND ANY OTHER ASSOCIATED COSTS) WILL BE PAID BY THE CONTRACTOR. IF IDENTIFIED VIOLATIONS ARE NOT CORRECTED WITHIN 24 HOURS OF WRITTEN NOTICE, THE OWNER WILL MAKE THE REQUIRED REPAIRS WITHOUT FURTHER NOTIFICATION, AT THE CONTRACTOR'S EXPENSE.
- I. FINES ASSESSED AS A RESULT OF THE VIOLATION FOR NONCOMPLIANCE OF THE S.E.S.C. PROVISIONS WILL BE PAID BY THE CONTRACTOR. SHOULD A "STOP WORK" ORDER FOR NONCOMPLIANCE BE ISSUED, A TIME EXTENSION REQUEST FOR THAT TIME PERIOD WILL NOT BE GRANTED (FINES COULD BE ASSESSED UP TO AND INCLUDING \$25,000 PER DAY FOR EACH VIOLATION).
- J. ALL STOCKPILED AND EXCAVATED MATERIALS SHALL BE SURROUNDED BY SILT FENCE IF LEFT OVERNIGHT OUTSIDE OF A PROTECTED AREA.
- K. STRIP ALL TOPSOIL WITHIN THE LIMITS OF WORK AS INDICATED ON DEMOLITION PLAN (EXCLUDE AREAS CONFINED BY TREE PROTECTION FENCE). STOCKPILE ALL STRIPPED TOPSOIL AT OWNER'S ON-SITE STOCKPILE.
- L. THERE ARE NO WETLANDS ON THE PROJECT SITE OR IMMEDIATELY ADJACENT TO THE PROJECT SITE.
- M. STORM WATER FROM PROJECT SITE WILL NOT ADVERSELY IMPACT ADJACENT PROPERTIES.
 N. ALL DISTURBED AREAS SHALL RECEIVE PERMANENT EROSION CONTROL WITHIN 5 DAYS OF FINAL GRADING.
- O. SOIL TYPE WITHIN SITE BOUNDARIES IS "MIAAA SANDY LOAM SOILS."
- P. THE CUT AND FILL OF THIS PROJECT IS NOT BALANCED. THERE WILL BE EXCESS CUT FROM OVER-EXCAVATION REQUIRED TO BE REMOVED FROM THE SITE.
- Q. TOTAL DISTURBED ACRES OF THE PROJECT FOR THIS PROJECT EQUALS 1 ACRE
- R. ALL SESC MEASURES SHALL BE MAINTAINED DAILY.
- S. ALL MUD/DIRT TRACKED OR SPILLED ONTO ADJACENT AND EXISTING PAVED ROADS/SURFACES SHALL BE PROMPTLY SCRAPPED AND SWEPT.
- T. ACCESS ROADS AND ADJACENT CONCRETE PATHWAYS SHALL BE MAINTAINED BROOM CLEAN AT ALL TIMES.
- U. WATER TRUCK SHALL BE AVAILABLE TO WATER DOWN SITE AS REQUIRED TO MAINTAIN DUST CONTROL.
- V. CONSTRUCTION ENTRANCE DRIVE(S) SHALL BE A STABILIZED CONSTRUCTION ACCESS DRIVE MAINTAINED IN GOOD CONDITION AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT WHERE REQUIRED.
- W. FINISHED SITE TOPOGRAPHY AND STORMWATER FROM THE SUBJECT SITE WILL NOT ADVERSELY IMPACT ADJOINING LAND OR PROPERTY.

- aa. BEFORE WORK BEGINS, COORDINATE SIDEWALK AND ROAD CLOSURES, TEMPORARY CONSTRUCTION FENCING, CHAIN LINK CONSTRUCTION FENCING, AND RELATED SIGNAGE WITH THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
- bb. PRIOR TO BEGINNING THE CONSTRUCTION, THE CONTRACTOR SHALL INSTALL THE NECESSARY ROAD AND LANE CLOSURE SIGNS, SIDEWALK CLOSED AHEAD WARNING SIGNS, SOIL EROSION AND SEDIMENTATION CONTROL PRODUCTS, AND CHAIN LINK CONSTRUCTION FENCE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS INDICATED ON THE DRAWINGS.
- cc. THE CONTRACTOR IS TO FOLLOW THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.M.U.T.C.D.) FOR ROAD AND LANE CLOSURES. ALL ROAD AND LANE CLOSURE SIGNS, WARNING SIGNS, SOIL EROSION AND SEDIMENTATION CONTROL PRODUCTS, AND CHAIN LINK CONSTRUCTION FENCE SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE PROJECT'S DURATION.
- dd. "CONSTRUCTION AHEAD" WARNING SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH M.M.U.T.C.D. FOR THE PROJECT'S DURATION. FINAL LOCATIONS ARE TO BE APPROVED BY THE OWNER.
- ee. INSTALL ADVANCE WARNING SIGNS (I.E., SIDEWALK CLOSED AHEAD, USE ALTERNATE ROUTE) ON ALL SIDEWALKS CROSSING THE WORK ZONE.
- ff. INSTALL FLASHERS WITH CAUTION TAPE ON THE INSIDE OF CONSTRUCTION FENCE AT ALL BLOCKED SIDEWALK CROSSINGS.
- gg. CONTRACTOR SHALL PROVIDE AND INSTALL TREE PROTECTION FENCING. FENCING SHALL BE PLACED AS SHOWN ON PLANS. CONTRACTOR SHALL REMOVE FENCE 'ONLY' FOR WORK REQUIRED WITHIN ITS BOUNDARY. UPON COMPLETION OF WORK FENCE SHALL BE RETURNED TO ORIGINAL LOCATION. CONTRACTOR SHALL MAINTAIN TREE PROTECTION FENCE.
- hh. THE CONSTRUCTION STAGING AND ACCESS FOR THIS SITE SHALL BE COORDINATED WITH THE OWNER BEFORE PROCEEDING.
- ii. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE THE START OF ANY WORK.

SHEET NOTES

- ALL MATERIAL PROPOSED FOR USE SHALL BE SUBJECT TO APPROVAL AND MODIFICATION BY THE OWNER AND THE LOCAL ENFORCING AGENCY.
- 2. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES AS INDICATED ON THE DRAWINGS AS SOON AS POSSIBLE AFTER CONSTRUCTION BEGINS.
- 3. CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENTATION CONTROLS UNTIL THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. SUCH MAINTENANCE INCLUDE:
- 3.1. REPAIR OF ALL DAMAGED INSTALLATIONS.
- 3.2. REPLACEMENT OF LOST FACILITIES.
- 3.3. PERIODIC REMOVAL OF COLLECTED SILT AND SEDIMENTATION AS REQUIRED OR DIRECTED TO MAINTAIN EFFECTIVENESS OF THE SILT TRAPS, FILTERS, AND BASINS.
- 4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF CONSTRUCTION, UNLESS ORDERED BY THE OWNER TO REMAIN IN PLACE. CARE SHALL BE TAKEN DURING REMOVAL TO MINIMIZE SILTATION OF NEARBY DRAINAGE COURSES.
- 5. DURING CONSTRUCTION THE CONTRACTOR SHALL UTILIZE ITEMS SHOWN ON THE KEY AS REQUIRED TO MEET THE REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ACT. DEPENDING ON THE CONTRACTORS CONSTRUCTION SCHEDULE, NEW CONSTRUCTION MAY REQUIRE TEMPORARY CONTROL MEASURES TO COMPLY WITH THE ACT.
- 6. ALL STRIPPED AREAS SHALL BE TEMPORARILY STABILIZED AND PROTECTED FROM EROSION UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED.

WILSON PARK IMPROVEMENT PROJECT

280 HILTON ROAD ERNDALE, MI 48220

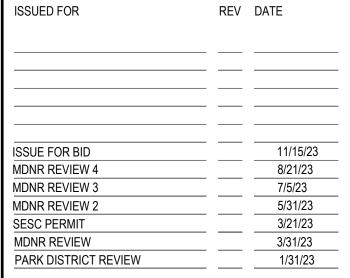
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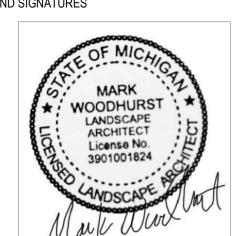
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SEALS AND SIGNATURES



KEY PLAN



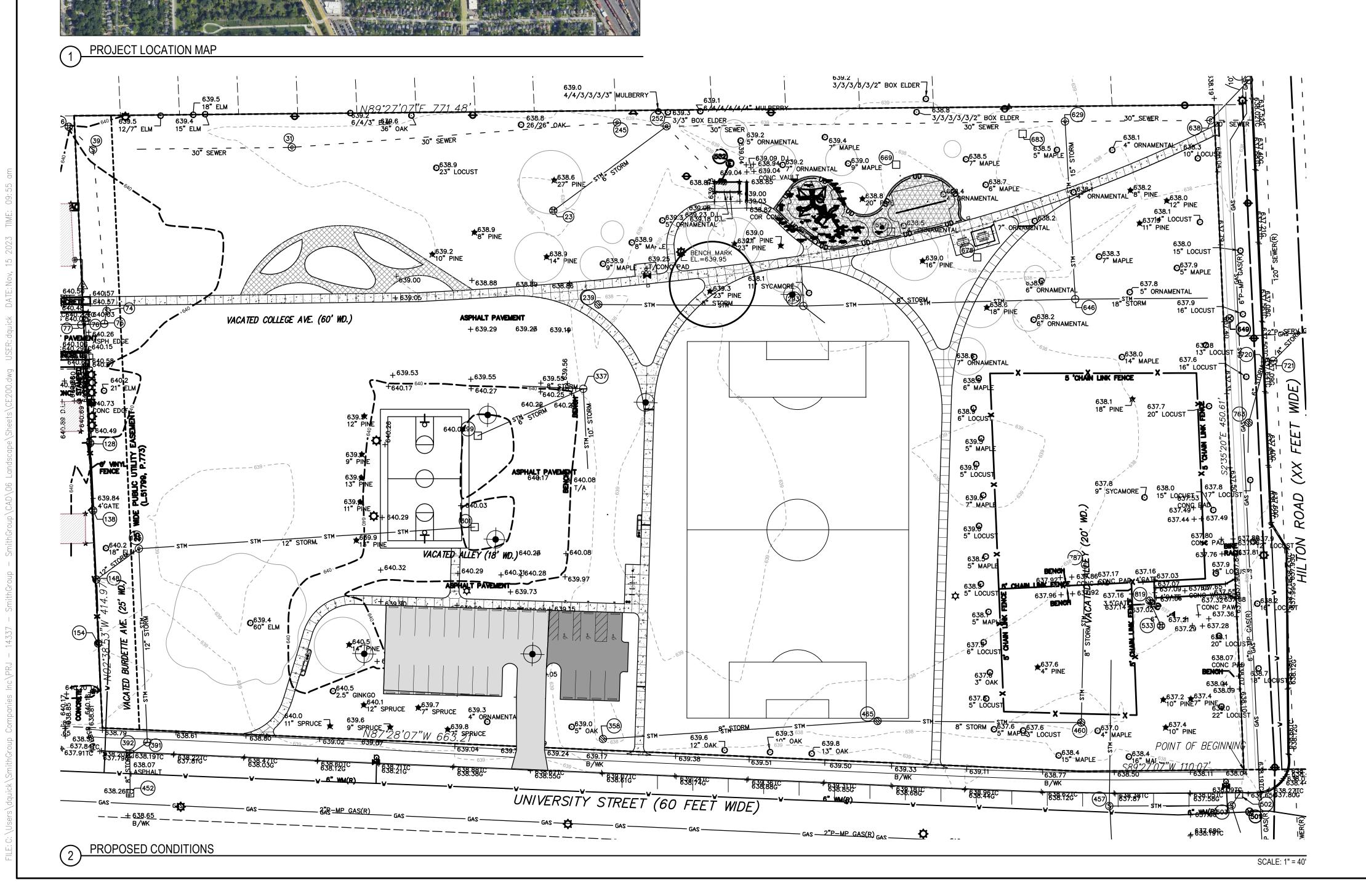
EXISTING CONDITIONS
OVERALL SOIL EROSION
PERMIT PLAN

SCALE: 1"=40"

PROJECT NUMBER

CF10

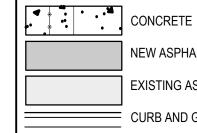
SOIL EROSION PERMIT OAKLAND HEALTH DEPARTMENT 1.31.2023



SHEET NOTES

- SEE SHEET CE500 FOR SOIL EROSION AND SEDIMENTATION
- BEFORE WORK BEGINS, COORDINATE SIDEWALK AND ROAD CLOSURES, TEMPORARY CONSTRUCTION FENCING, CHAIN LINK CONSTRUCTION FENCING, AND RELATED SIGNAGE WITH THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
- PRIOR TO BEGINNING THE CONSTRUCTION, THE CONTRACTOR SHALL INSTALL THE NECESSARY ROAD AND LANE CLOSURE SIGNS, SIDEWALK CLOSED AHEAD WARNING SIGNS, SOIL EROSION AND SEDIMENTATION CONTROL PRODUCTS, AND CHAIN LINK CONSTRUCTION FENCE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR IS TO FOLLOW THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.M.U.T.C.D.) FOR ROAD AND
- "CONSTRUCTION AHEAD" WARNING SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH M.M.U.T.C.D. FOR THE PROJECT'S DURATION.
- INSTALL ADVANCE WARNING SIGNS (I.E., SIDEWALK CLOSED AHEAD USE ALTERNATE ROUTE) ON ALL SIDEWALKS CROSSING THE WORK
- INSTALL FLASHERS WITH CAUTION TAPE ON THE INSIDE OF CONSTRUCTION FENCE AT ALL BLOCKED SIDEWALK CROSSINGS.
- CONTRACTOR SHALL PROVIDE AND INSTALL TREE PROTECTION FENCING. FENCING SHALL BE PLACED AS SHOWN ON PLANS. CONTRACTOR SHALL REMOVE FENCE 'ONLY' FOR WORK REQUIRED WITHIN ITS BOUNDARY. UPON COMPLETION OF WORK FENCE SHALL BE RETURNED TO ORIGINAL LOCATION. CONTRACTOR SHALL MAINTAIN TREE PROTECTION FENCE.
- THE CONSTRUCTION STAGING AND ACCESS FOR THIS SITE SHALL BE COORDINATED WITH THE OWNER BEFORE PROCEEDING.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE THE START OF ANY WORK.

LEGEND



NEW ASPHALT OVERLAY

EXISTING ASPHALT — CURB AND GUTTER

FIBAR SURFACING

LITTER RECEPTACLE

DRINKING FOUNTAIN

BIKE RACK

LIGHTING POLE

WILSON PARK IMPROVEMENT PROJECT

FERNDALE, MI 48220

26-01872 LAND & WATER CONSERVATION

FERNDALE PARKS AND RECREATION DEPARTAMENT

SMITHGROUP

201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroup.com

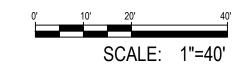
ISSUED FOR REV DATE ISSUE FOR BID MDNR REVIEW 4 MDNR REVIEW 2 SESC PERMIT MDNR REVIEW

SEALS AND SIGNATURES

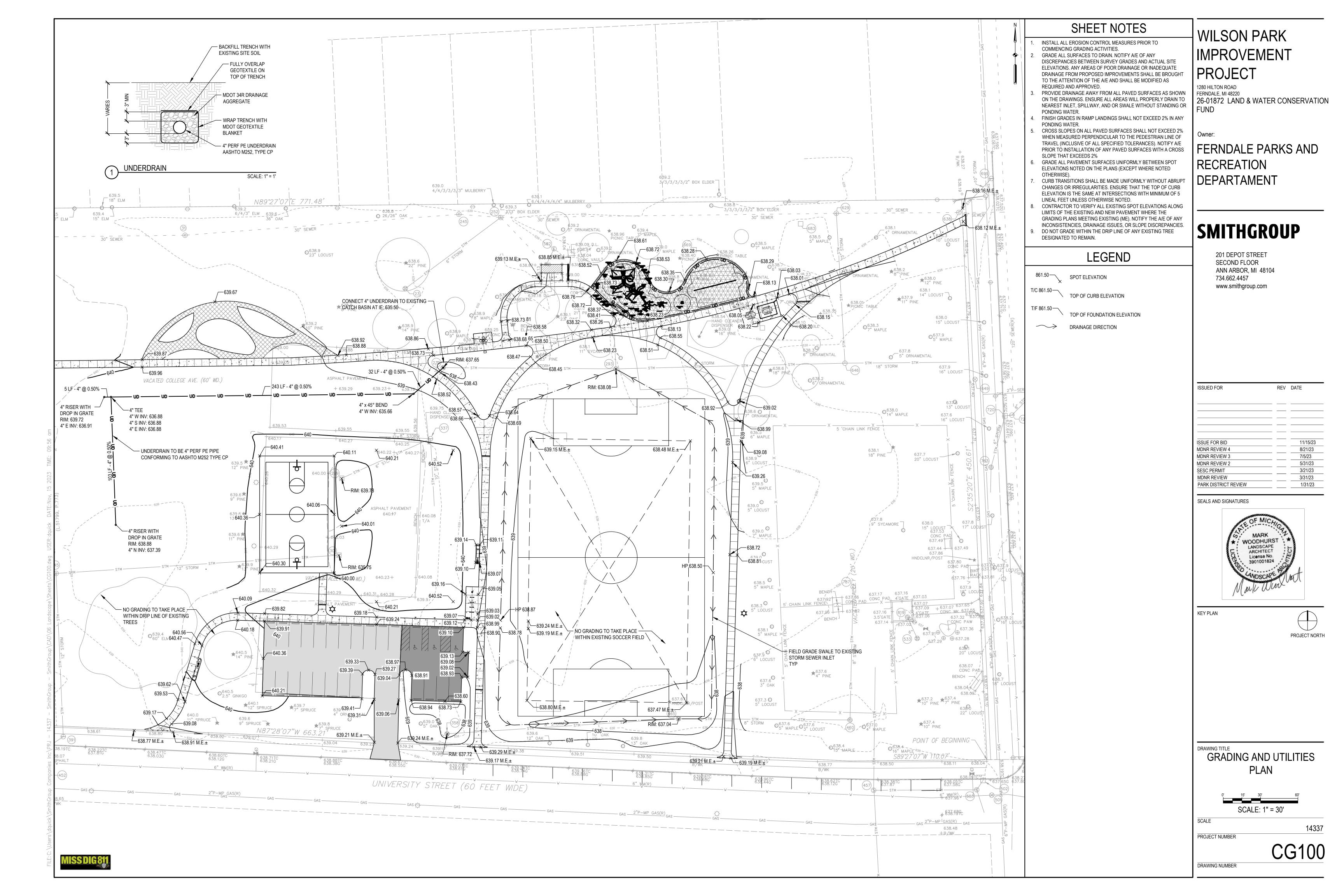


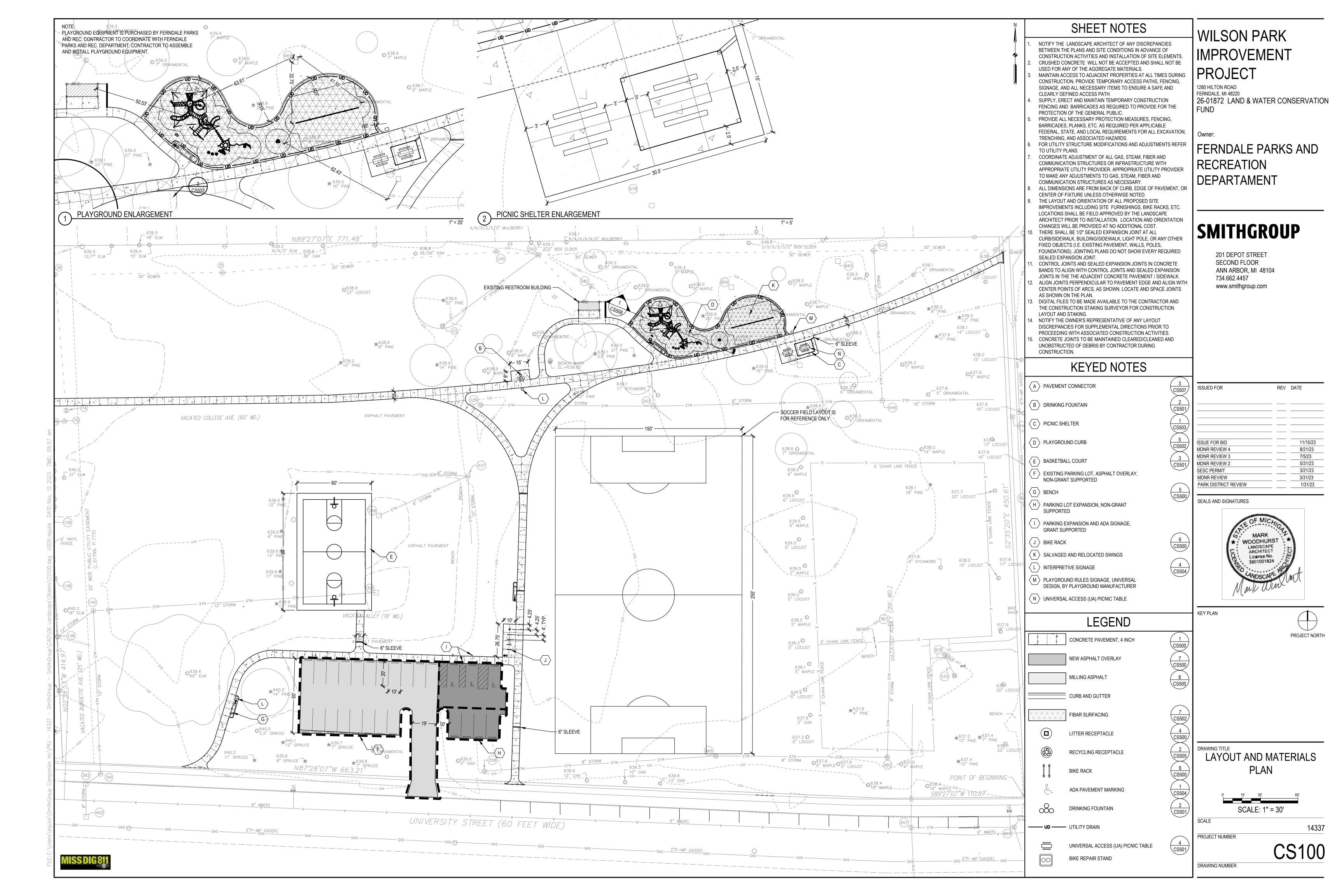


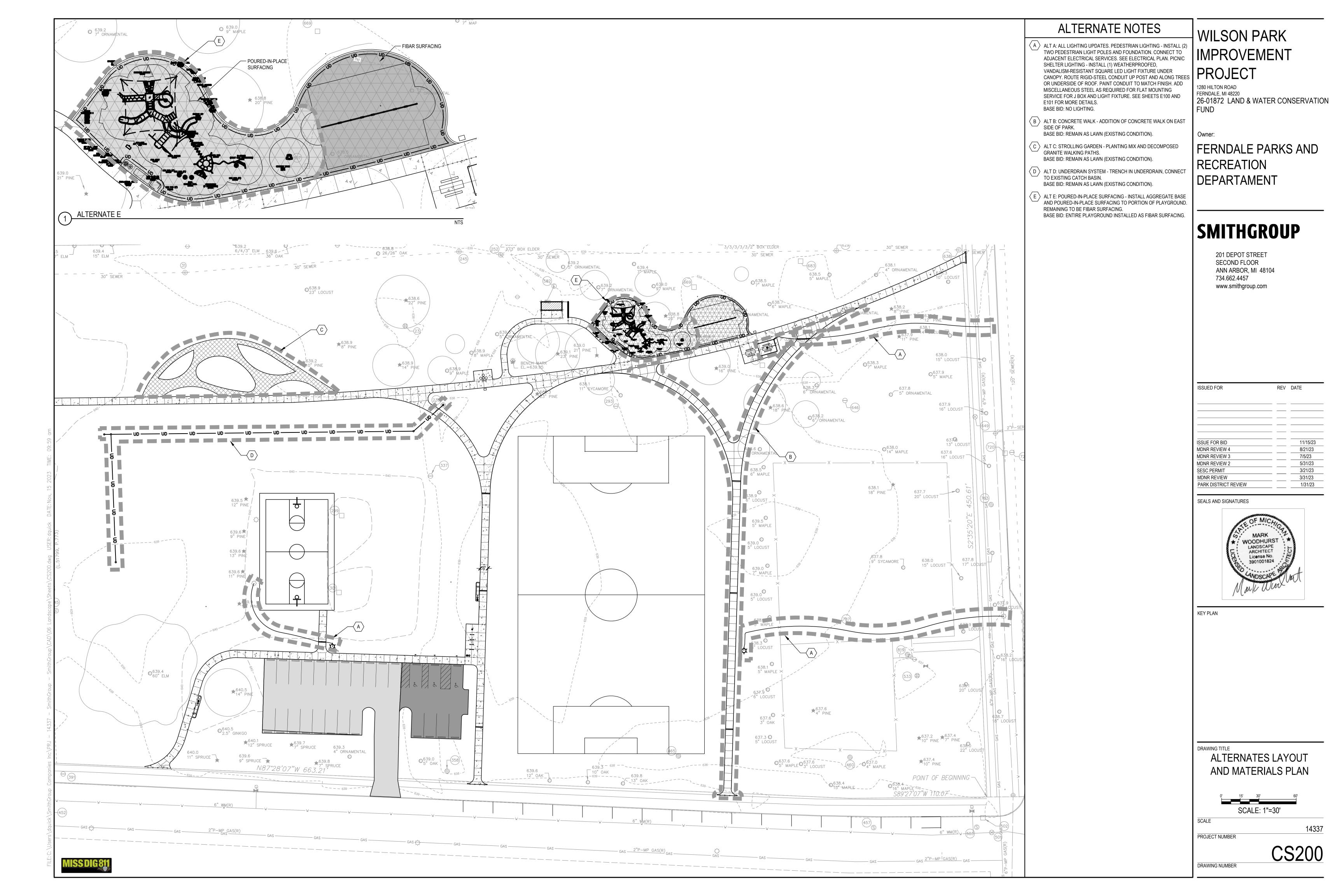
PROPOSED CONDITIONS FOR SOIL EROSION PERMIT

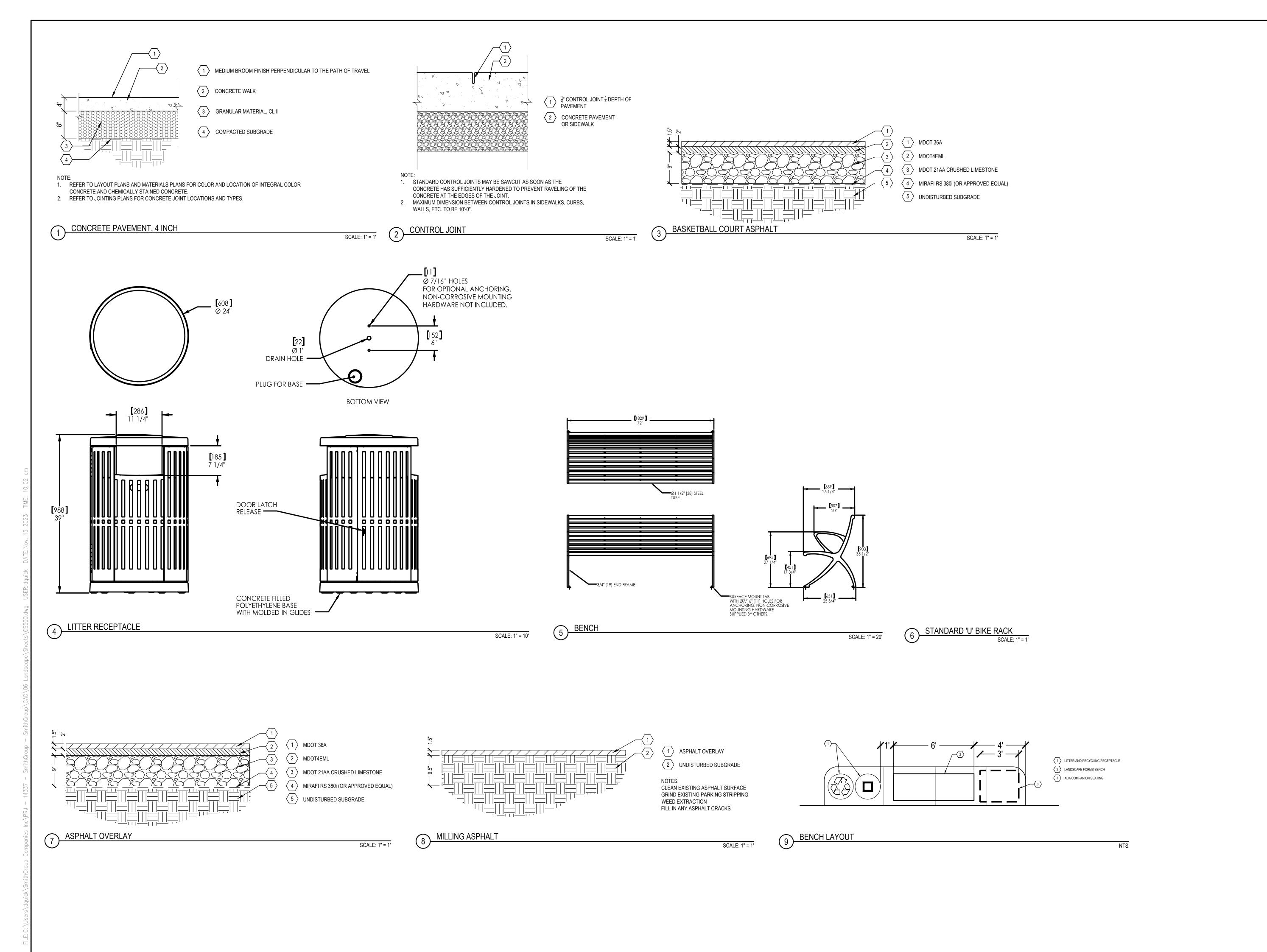


PROJECT NUMBER









1280 HILTON ROAD
FERNDALE, MI 48220
26-01872 LAND & WATER CONSERVATION
FUND

mer.

FERNDALE PARKS AND RECREATION DEPARTAMENT

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SEALS AND SIGNATURES

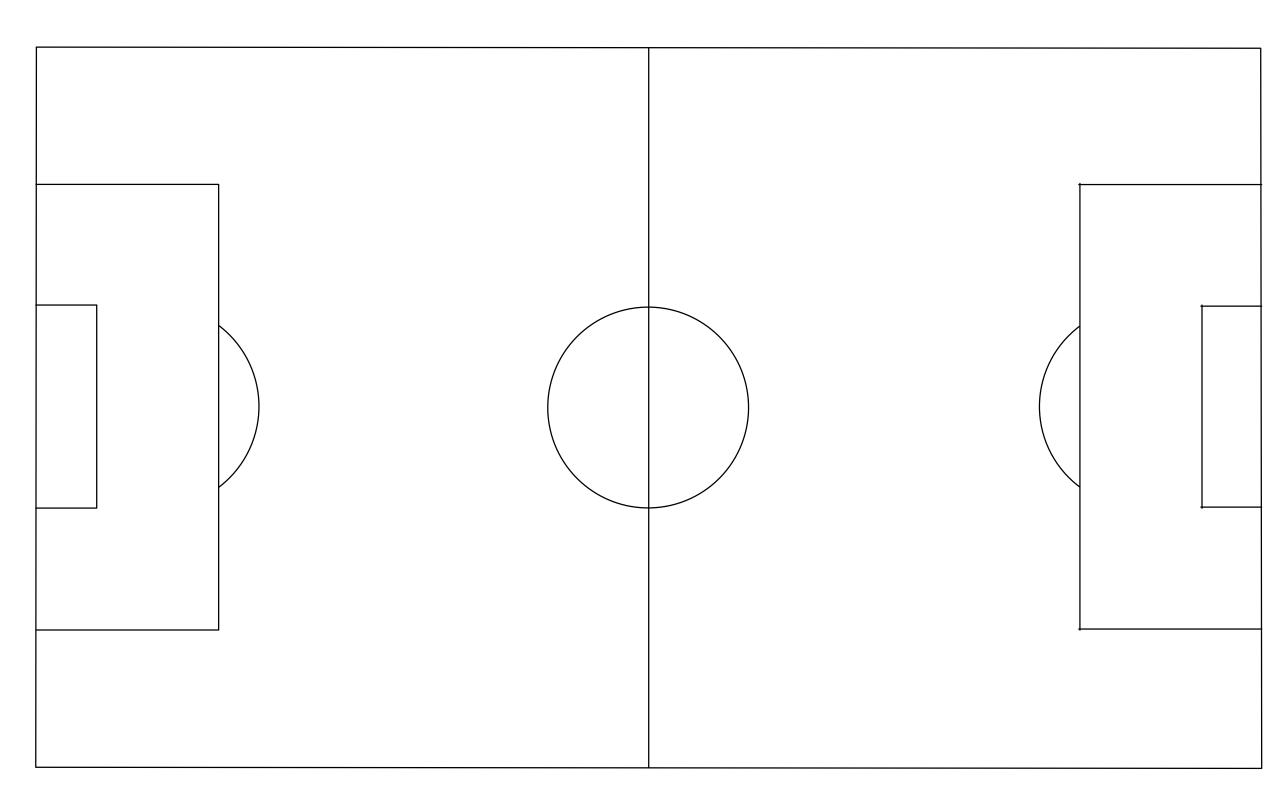


KEY PLAN

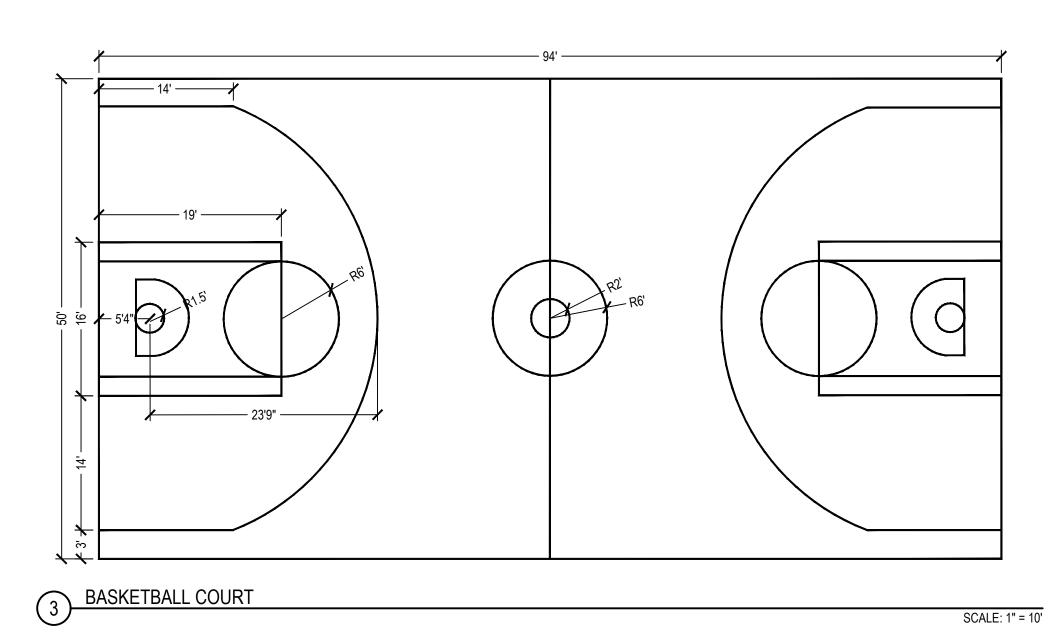


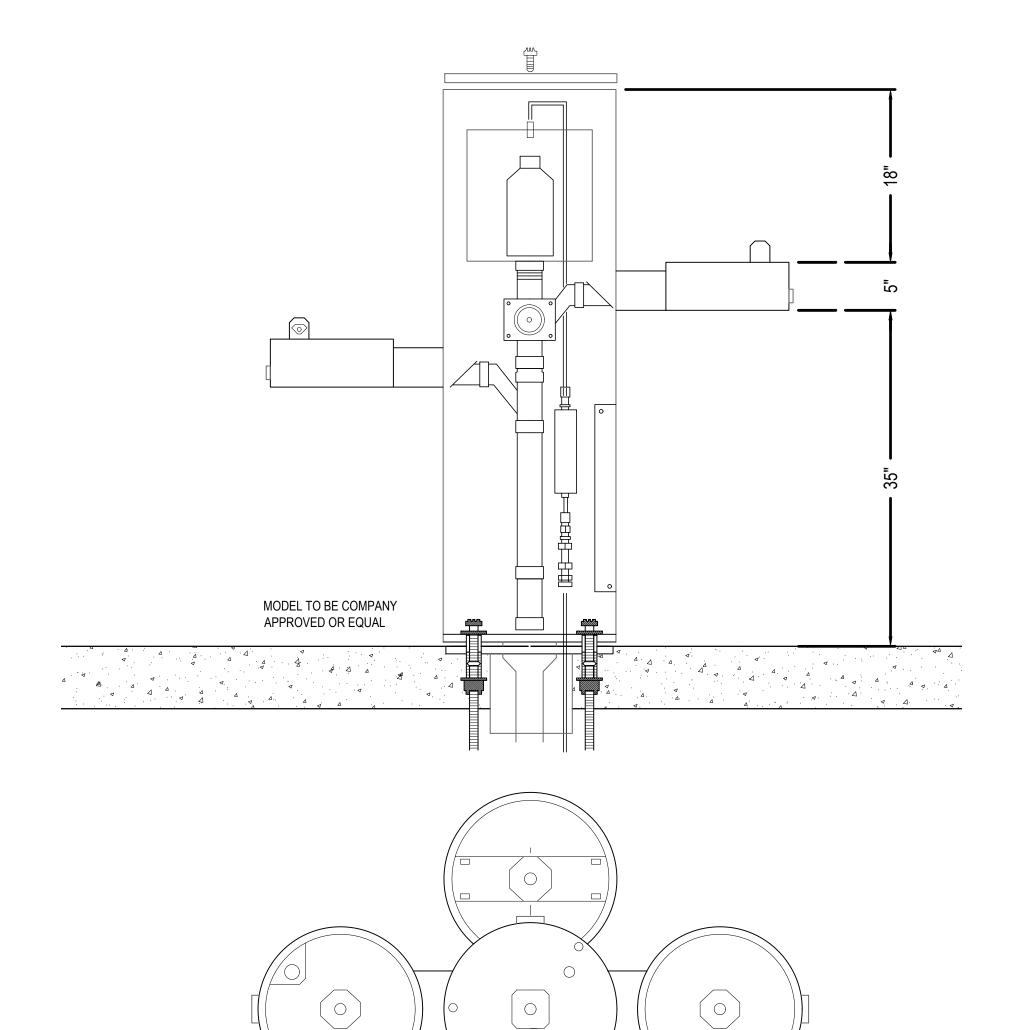
SITE DETAILS

SCALE
PROJECT NUMBER



SOCCER FIELD (FOR REFERENCE ONLY) SCALE: 1" = 20'

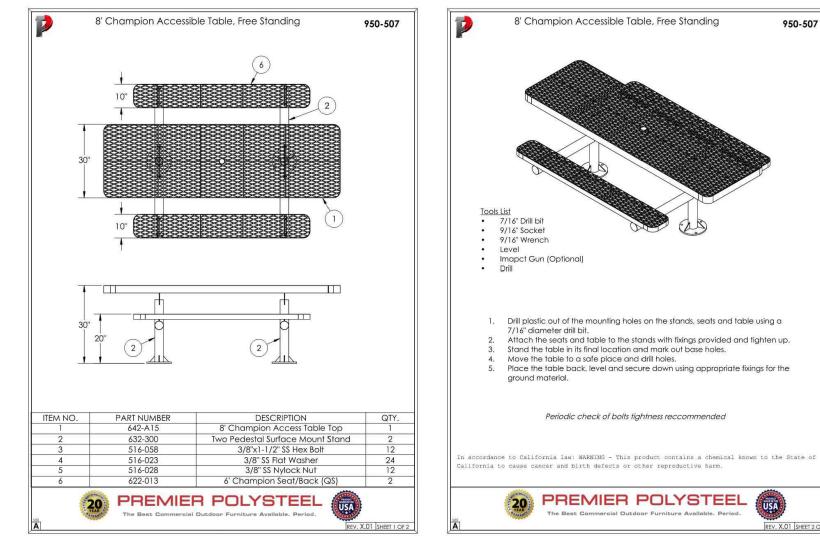




2 DRINKING FOUNTAIN SCALE: 1" = 10'

950-507

SCALE: NTS



UNIVERSAL ACCESS (UA) PICNIC TABLE

WILSON PARK IMPROVEMENT PROJECT

1280 HILTON ROAD FERNDALE, MI 48220 26-01872 LAND & WATER CONSERVATION FUND

FERNDALE PARKS AND RECREATION DEPARTAMENT

SMITHGROUP

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ISSUED FOR	REV	DATE
ISSUE FOR BID		11/15/23
MDNR REVIEW 4		8/21/23
MDNR REVIEW 3		7/5/23
MDNR REVIEW 2		5/31/23
SESC PERMIT	<u> </u>	3/21/23
MDNR REVIEW		3/31/23
PARK DISTRICT REVIEW	<u> </u>	1/31/23

SEALS AND SIGNATURES

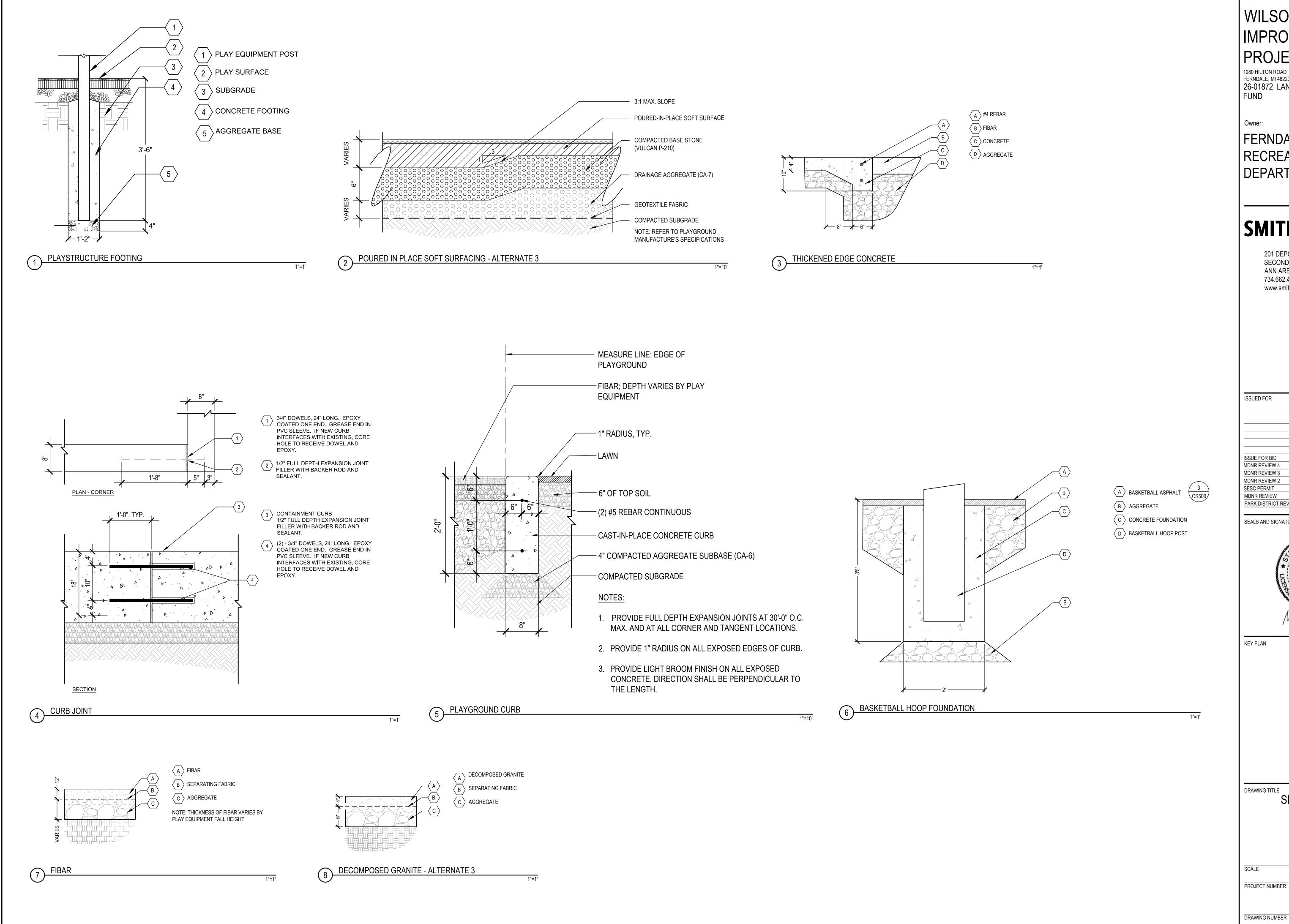


KEY PLAN



DRAWING TITLE SITE DETAILS

SCALE PROJECT NUMBER



1280 HILTON ROAD FERNDALE, MI 48220 26-01872 LAND & WATER CONSERVATION

FERNDALE PARKS AND RECREATION DEPARTAMENT

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SEALS AND SIGNATURES

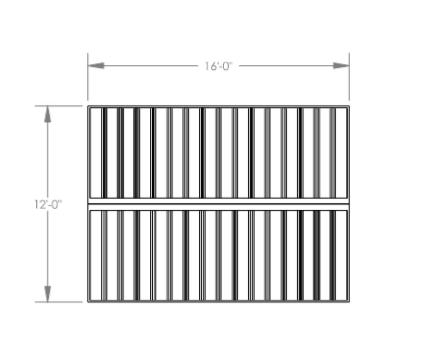


KEY PLAN



DRAWING TITLE SITE DETAILS

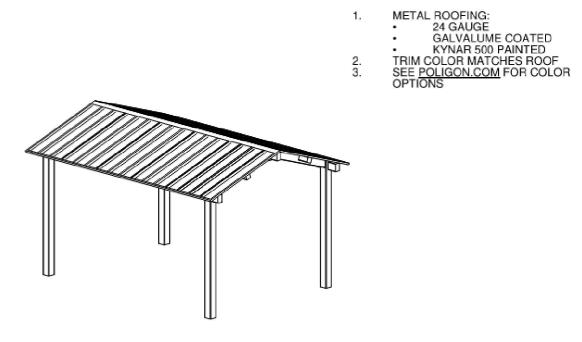
CS502



TOP VIEW

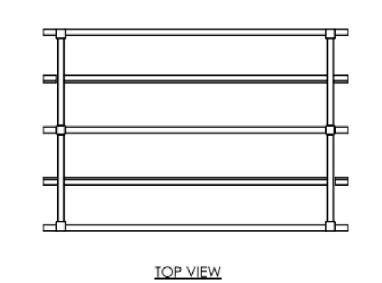
FRONT VIEW

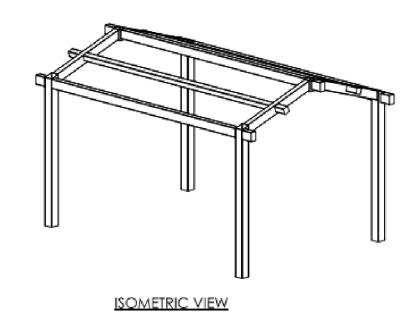
POLYGON SHADE STRUCTURE



ISOMETRIC VIEW

GENERAL ROOF NOTES:

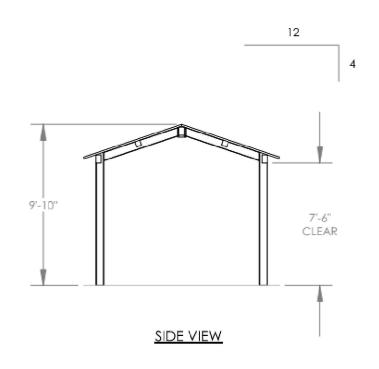


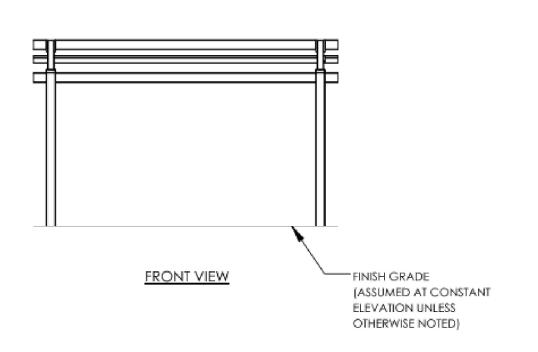


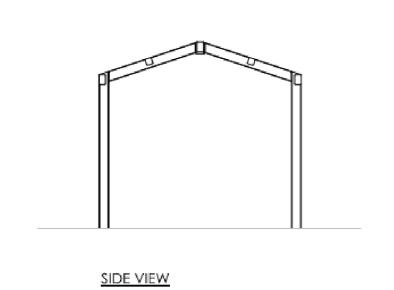
FINISH GRADE

OTHERWISE NOTED)

(ASSUMED AT CONSTANT ELEVATION UNLESS

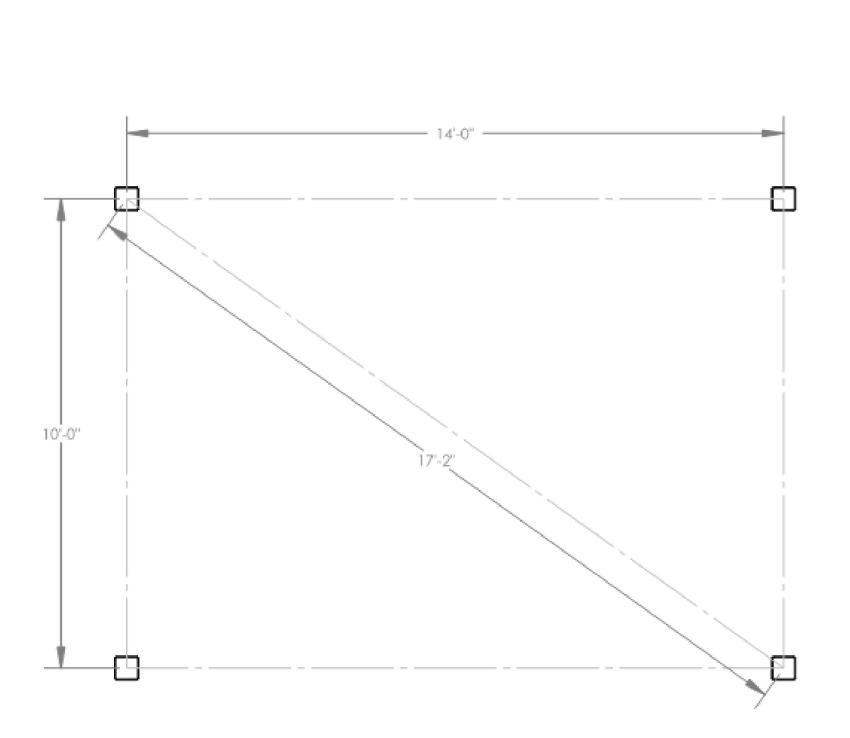






ANCHOR BOLT LAYOUT NOTES:

- ENGINEERING WILL DETERMINE REQUIRED ANCHOR BOLT LAYOUT AFTER ENGINEERING PACKAGE IS ORDERED.
- CUSTOMER MAY SUGGEST PREFERRED ANCHOR BOLT LAYOUT.





WILSON PARK IMPROVEMENT PROJECT

1280 HILTON ROAD
FERNDALE, MI 48220
26-01872 LAND & WATER CONSERVATION
FUND

Owner:

FERNDALE PARKS AND RECREATION DEPARTAMENT

SMITHGROUP

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MDNR REVIEW		3/31/23
PARK DISTRICT REVIEW		1/31/23

SEALS AND SIGNATURES



KEY PLAN



SITE DETAILS

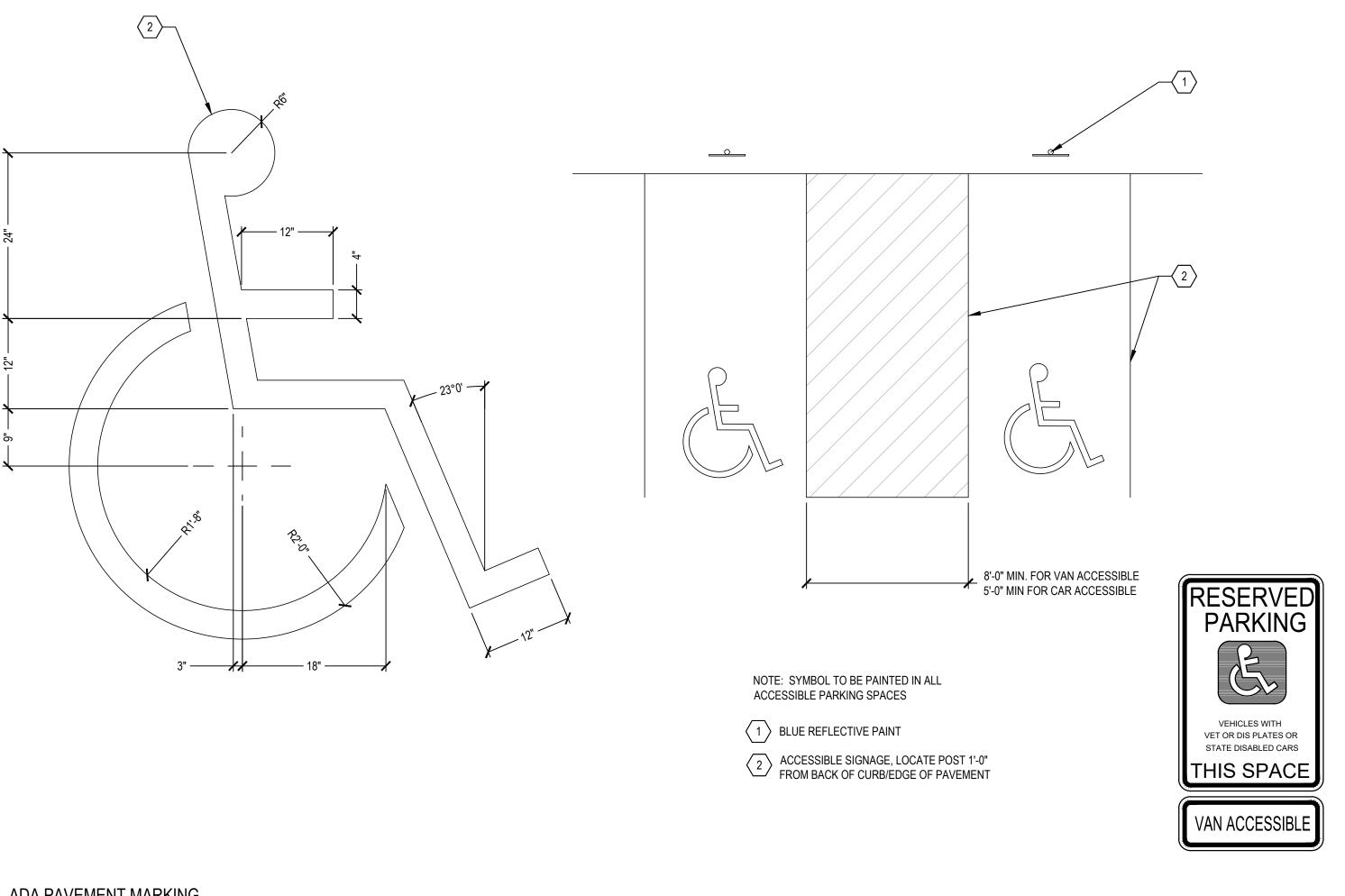
SCALE

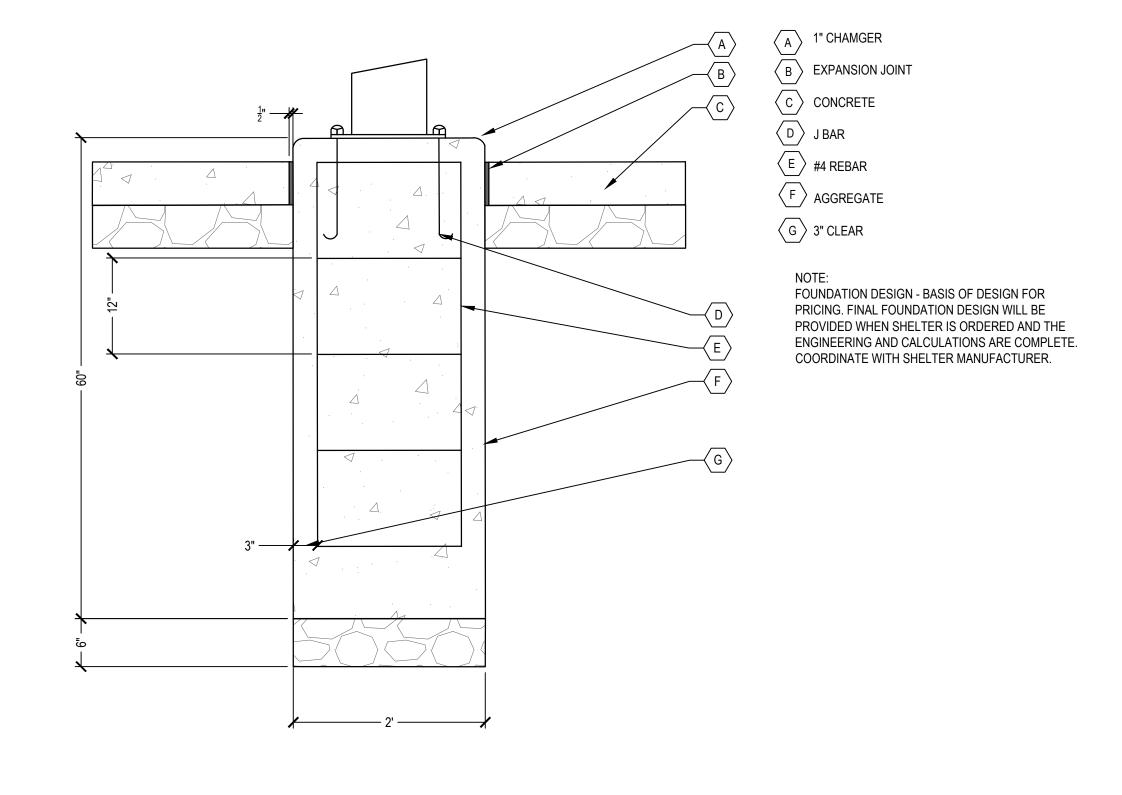
PROJECT NUMBER

DRAWING NUMBER

CS503

SCALE: 1" = 1'





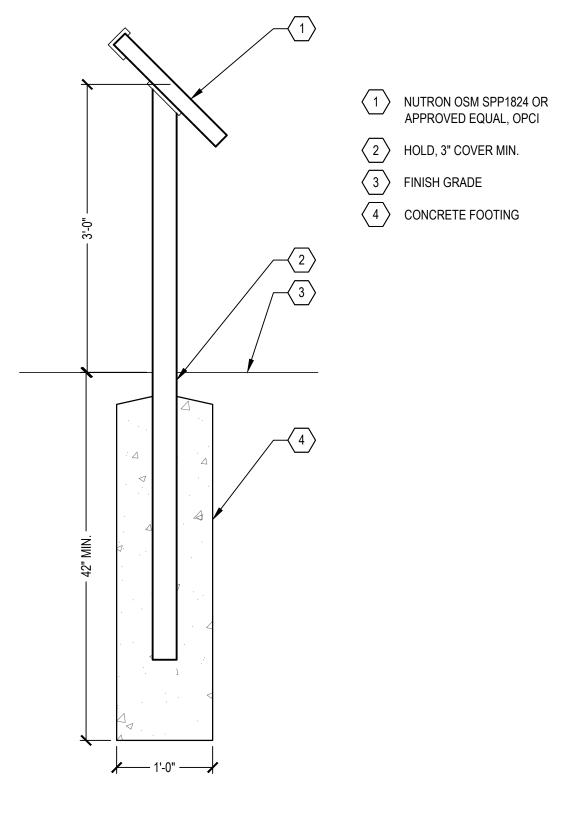
ADA PAVEMENT MARKING

FERNDALE PARK SIGN

SCALE: 1" = 1'

2 SHADE STRUCTURE FOUNDATION

HARDING PARK
FERMOALE
WEJDRIDGAM



BIOSWALE

Bioswales are one way to protect our surface waters as they are designed to slow, filter, infiltrate, and convey stormwater runoff. These vegetated shallow channels also help trap pollutants, reduce velocity of stormwater runoff, and encourage infiltration.

L______

BIOSWALE DIAGRAM GRAPHIC TBD

SIGNAGE GRAPHIC ENLARGEMENT - LOCATION 1

SPACE TREE

This tree was germinated in space using seeds that were purchased from students at Wilson School. The NASA program then delivered the germinated plant back to Ferndale to be planted.

SIGNAGE GRAPHIC ENLARGEMENT - LOCATION 2

INTERPRETIVE SIGNAGE

1" = 1'-0"

WILSON PARK IMPROVEMENT PROJECT

1280 HILTON ROAD FERNDALE, MI 48220 26-01872 LAND & WATER CONSERVATION FUND

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FERNDALE PARKS AND RECREATION DEPARTAMENT

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ISSUE FOR BID

ISSUE FOR BID

MDNR REVIEW 4

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SESC PERMIT

MDNR REVIEW

SEALS AND SIGNATURES



KEY PLAN

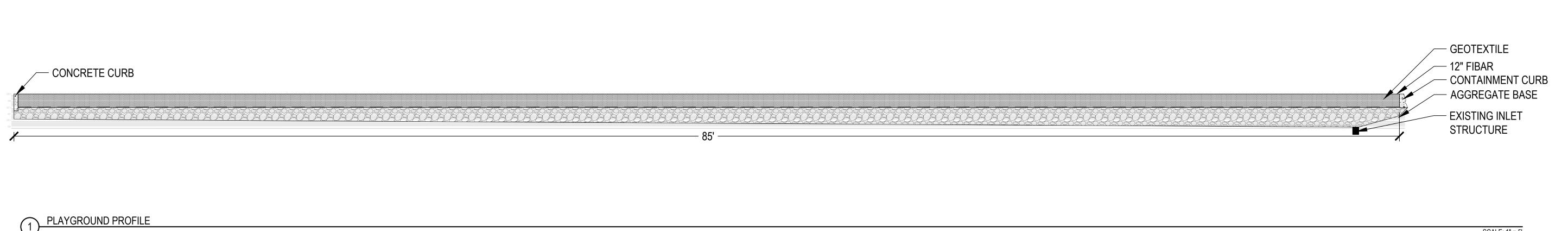


SITE DETAILS

SCALE
PROJECT NUMBER

DRAWING NUMBER

CS504



Ø 7/16" HOLES FOR OPTIONAL ANCHORING. NON-CORROSIVE MOUNTING HARDWARE NOT INCLUDED. DRAIN HOLE -PLUG FOR BASE **BOTTOM VIEW** DOOR LATCH (2) 5x7 VINYL SIGNS ON WELDED-ON BACKER PLATE CONCRETE-FILLED
POLYETHYLENE BASE
WITH MOLDED-IN GLIDES —— 2 RECYCLING RECEPTACLE

SCALE: 1" = 1'

WILSON PARK IMPROVEMENT PROJECT

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FERNDALE PARKS AND RECREATION DEPARTAMENT

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SEALS AND SIGNATURES



KEY PLAN



SITE DETAILS

SCALE PROJECT NUMBER

PLANT PALETTE BIOSWALE PLANT PALETTE CODE QUANTITY | SCIENTIFIC NAME COMMON NAME SIZE NOTES CODE QUANTITY | SCIENTIFIC NAME COMMON NAME SIZE NOTES TREES PERENNIALS ACS ACER SACCHARUM SUGAR MAPLE FULL TO PART SHADE ECP ECHINACEA PURPUREA CARDINAL FLOWER **FULL TO PART SHADE** 12 3" CAL 1 GAL POC PLANTANUS OCCIDENTALIS FULL TO PART SHADE **FULL TO PART SHADE** AMERICAN SYCAMORE 3" CAL LIA LIATRIS ASPERA **ROUGH BLAZING STAR** 1 GAL ACR ACER RUBRUM RED MAPLE 'SUNBURST' FULL TO PART SHADE LOC LOBELIA CARDINALIS FULL TO PART SHADE 11 3" CAL 108 CARDINAL FLOWER 1 GAL NOTE: THE NATIVE PLANT MIX SHALL CONSIST OF THE FOLLOWING PLANTS. NOTE: THE CITY OF FERNDALE IS RESPONSIBLE FOR THE PURCHASING OF STANDARD SEED MIXES BY NATIVE CONNECTIONS OR APPROVED EQUAL. PLANTS, INSTALLATION OF MULCH AND TREES. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PLS Oz/acre Seeds/sq ff Andropogon gerardii Big Bluestern Side-oats Grama 10.00 1.38 Bouteloua curtipendula Canada Wild Rye 20.00 2.39 Elymus canadensis NOTED OTHERWISE. 12.00 3.86 Switchgrass Panicum virgatum BIOSWALE ENLARGEMENT Little Bluestem 14.00 4.82 Schizachyrium scoparium SCALE: 1" = 10' Sorghastrum nutans Indian Grass 8.00 2.20 PLS Oz/acre Seeds/sq ft Common Milkweed 0.50 0.05 Asclepias syriaca Sky Blue Aster 0.40 0.73 Aster azureus (A. oolentangiensis) Canadian Milk Vetch 1.00 0.39 Astragalus canadensis Partridge Pea 6.00 0.37 Cassia fasciculata (Chamaecrista f.) 3/3/3/3/2" BOX ELDER 2.07 Lance-leaf Coreopsis 4.50 Coreopsis lanceolata 4/4/3/3/3/3" MULBERRY Purple Coneflower 4.50 0.68 Echinacea purpurea Maximillian's Sunflower 3.50 1.04 Helianthus maximilliani 638.8 False sunflower 4.10 0.59 Heliopsis helianthoides 3/3/3/3/3⁷2" BOX ELDER ----638.8 ---0.50 0.80 Wild Bergamot Monarda fistulosa 26/26" OAK Common Evening Primrose 1.00 2.07 Oenothera biennis Foxglove Beardtongue 1.00 2.98 Penstemon digitalis Purple Prairie Clover 1.70 0.70 Petalostemum purpureum (Dalea p.) 1.00 Yellow Coneflower 0.69 Ratibida pinnata 4.80 10.14 Rudbeckia hirta Black-eyed Susan 1.50 0.96 Hoary Vervain Verbena stricta 24.28 Total Forbs **Temporary Grass Cover** Oz/acre Seeds/sq ft Lolium multiflorum 80.00 24.79 Annual Ryegrass 320.00 7.35 Avena sativa 32.14 Total Temp Grasses 400.00 638.0 15" LOCUST **⊙**637.9 5" MAPLE THAN 24 HOURS. DPW TO PLACE HYDROSEED IN 5" ORNAMENTAL ALL DISTURBED AREAS 637.9 16" LOCUST 638.6 () 7" ORNAMENTAL 5 'CHAIN LINK FENCE 638.5[©] 6" MAPLE 18" PINE 639.5 5" MAPLE ASPHALT PAVEMENT 5" LOCUST 640.17 639.0 Z"_MAPLE ○ ⊕ ○ PERENNIAL PLANTING 637.44 + 4 637.49 637.86 639.0 5" LOCUST NATIVE PLANTING MIX 1 (MICHIGAN NATIVE MIX) 638.5 5" MAPLE 638.3 5" LOCUST 638.1 5" MAPLE > ★637.6 ★4" PINE 638.04.K/ 638.09 637.3 🤨 5" LOCUST ★637.4 10" PINE POINT OF BEGINNING 638.88TC 638.38G UNIVERSITY STREET (60 FEET WIDE)

SHEET NOTES

LANDSCAPE ARCHITECT WILL REVIEW PLANT MATERIAL AND RESERVES THE RIGHT TO REJECT ANY MATERIAL THAT DOES NOT MEET THE SPECIAL PROVISIONS, PLANT LIST, OR DESIGN REQUIREMENTS OF THE PROJECT. PLANTS INSTALLED THAT DO NOT

COMPLY TO BE IMMEDIATELY REMOVED. ALL MATERIAL SUPPLIED FOR AN INDIVIDUAL ITEM ON THE PLANT LIST SHALL MATCH SIZE, SHAPE, FORM, AND NOTED REQUIREMENTS. IN ADDITION THE PLANT MATERIAL SHALL CONFORM TO THE

SPECIFICATIONS AND SUPPLEMENTARY REQUIREMENTS IN THE SPECIAL PROVISIONS.

LANDSCAPE ARCHITECT SHALL REVIEW PLACEMENT OF PLANT MATERIAL PRIOR TO INSTALLATION, AND RESERVES THE RIGHT TO ADJUST LAYOUT TO ACCOMMODATE SITE CONDITIONS AND DESIGN INTENT AT NO ADDITIONAL COST. ALL PLANTINGS SHALL BE INSTALLED IN A LOGICAL SEQUENCE WITHIN THE SAME PLANTING TIME FRAME. IF THE PLANT MATERIAL IS INSTALLED WITHOUT PRIOR APPROVAL THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REQUEST LAYOUT ADJUSTMENTS AT NO ADDITIONAL COST.

PROTECT PLANTS AND ENSURE HEALTH AND PLANT QUALITY DURING SHIPMENT, HANDLING, INSTALLATION AND ESTABLISHMENT. ALL LANDSCAPE BEDS SHALL RECEIVE 18" OF PLANTING MIX UNLESS

ALL PLANTINGS SHALL RECEIVE A MIN. OF 3" OF DOUBLE PROCESSED SHREDDED HARDWOOD BARK MULCH, WHERE LANDSCAPE BEDS MEET PAVEMENTS OR LAWNS, CUT THE GRADE TO ALLOW FOR MULCH AND 1" DROP FROM THE ADJOINING FINISH GRADE. KEEP MULCH 4" FROM TREE TRUNKS AND SHRUB CROWNS.

ALL DISTURBED SEEDING AREAS SHALL RECEIVE A MINIMUM OF 4" DEEP TOPSOIL. TOPSOIL REMOVED DURING DEMOLITION / SITE PREPARATION CAN BE RE-USED. ADDITIONAL TOPSOIL REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR FROM OFF SITE SOURCES SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER. THE INSTALLATION OF LARGER PLANTS IS AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK".

PRIOR TO INSTALLATION, DEMARCATE LAYOUT OF ALL PLANTING BEDS, SEED AREAS, AND INDIVIDUAL TREES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. INCLUDE PERENNIAL GROUPINGS BY SPECIES FOR INTERNAL BED LAYOUTS. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. THE ENGINEER WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAY MAKE MINOR ADJUSTMENTS AS NECESSARY. SUCH ADJUSTMENTS WILL BE AT NO ADDITIONAL COST TO THE OWNER.

SEEDING APPLIES TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND THE APPROXIMATE DISTURBED AREAS TO THE SAME CONDITION AS ORIGINALLY FOUND AND TO THE OWNER'S SATISFACTION. IN AREAS WHERE LAWN IS DISTURBED BEYOND THE LIMITS OF CONSTRUCTION, REPLACE LAWN WITH NEW SEED (INCLUDING TOPSOIL, SEED AND MULCH) AT NO

ADDITIONAL COST TO THE OWNER. UTILIZE HORTICULTURAL TREE WATERING BAGS FOR TREES PLANTED THROUGHOUT WARRANTY PERIOD. REPLENISH TREE WATERING BAGS REGULARLY SO THAT NONE REMAIN WITHOUT WATER FOR MORE

LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE MINIMIZE CULTIVATION WITHIN THE DRIP LINES OF EXISTING TREES. PREPARE SOIL FOR SEEDING AREAS BY MINIMIZING DISTURBANCE TO 4 INCH DEPTH, HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIP LINE OF EXISTING TREES CONTRACTOR SHALL MARK PERENNIAL BED EDGES WITH MARKER PAINT PRIOR TO INSTALLATION FOR APPROVAL BY ENGINEER, ALL LANDSCAPE EDGING SHALL BE INSTALLED AS SHOWN ON DRAWING AND SHALL BE STRAIGHT, CONSISTENT, WITH EVEN RADIUS/CURVES

COST IN ORDER TO ENSURE A SATISFACTORY BLENDING OF PLANT MATERIAL TO CREATE THE DESIRED PLANTING ARRANGEMENT. THE APPROVED LANDSCAPE BED MOCKUP SHALL BE USED AS THE MODEL AND STANDARD OF REFERENCE FOR ALL SUBSEQUENT LANDSCAPE

LEGEND

EXISTING TREE

DECIDUOUS TREE PLANTING (DPW TO INSTALL)

HYDROSEED (DPW TO INSTALL)

WILSON PARK IMPROVEMENT

FERNDALE, MI 48220 26-01872 LAND & WATER CONSERVATION

FERNDALE PARKS AND RECREATION **DEPARTAMENT**

SMITHGROUP

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SSUED FOR REV DATE SSUE FOR BID MDNR REVIEW 4 8/21/23 MDNR REVIEW 3 7/5/23 MDNR REVIEW 2 PARK DISTRICT REVIEW

SEALS AND SIGNATURES



KEY PLAN



LANDSCAPE PLAN



SCALE PROJECT NUMBER

LP100

PLANT PALETTE BIOSWALE PLANT PALETTE CODE QUANTITY | SCIENTIFIC NAME COMMON NAME SIZE NOTES CODE QUANTITY | SCIENTIFIC NAME COMMON NAME SIZE NOTES TREES PERENNIALS ACS ACER SACCHARUM SUGAR MAPLE FULL TO PART SHADE ECP ECHINACEA PURPUREA CARDINAL FLOWER **FULL TO PART SHADE** 12 3" CAL 1 GAL SPECIAL PROVISIONS. POC PLANTANUS OCCIDENTALIS FULL TO PART SHADE **FULL TO PART SHADE** AMERICAN SYCAMORE 3" CAL LIA LIATRIS ASPERA **ROUGH BLAZING STAR** 1 GAL ACR ACER RUBRUM RED MAPLE 'SUNBURST' FULL TO PART SHADE LOC LOBELIA CARDINALIS FULL TO PART SHADE 3" CAL 108 CARDINAL FLOWER 1 GAL NOTE: THE NATIVE PLANT MIX SHALL CONSIST OF THE FOLLOWING PLANTS. NOTE: THE CITY OF FERNDALE IS RESPONSIBLE FOR THE PURCHASING OF STANDARD SEED MIXES BY NATIVE CONNECTIONS OR APPROVED EQUAL. PLANTS, INSTALLATION OF MULCH AND TREES. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PLS Oz/acre Seeds/sq ff Andropogon gerardii Big Bluesterr Side-oats Grama 10.00 1.38 Bouteloua curtipendula Canada Wild Rye 20.00 2.39 Elymus canadensis NOTED OTHERWISE. 3.86 Switchgrass 12.00 Panicum virgatum BIOSWALE ENLARGEMENT Little Bluestem 14.00 4.82 Schizachyrium scoparium SCALE: 1" = 10' Sorghastrum nutans Indian Grass 8.00 2.20 Total Grasses PLS Oz/acre Seeds/sq ft Common Milkweed 0.50 0.05 Asclepias syriaca Sky Blue Aster 0.40 0.73 Aster azureus (A. oolentangiensis) Canadian Milk Vetch 1.00 0.39 Astragalus canadensis Partridge Pea 6.00 0.37 Cassia fasciculata (Chamaecrista f.) 3/3/3/3/2" BOX ELDER 2.07 Lance-leaf Coreopsis 4.50 Coreopsis lanceolata 4/4/3/3/3/3" MULBERRY Purple Coneflower 4.50 0.68 Echinacea purpurea Maximillian's Sunflower 3.50 1.04 Helianthus maximilliani 638.8 False sunflower 4.10 0.59 Heliopsis helianthoides 3/3/3/3/3⁷2" BOX ELDER ----638.8 ---"STANDARDS FOR NURSERY STOCK". 0.50 0.80 Wild Bergamot Monarda fistulosa 26/26" OAK Common Evening Primrose 1.00 2.07 Oenothera biennis Foxglove Beardtongue 1.00 2.98 Penstemon digitalis Purple Prairie Clover 1.70 0.70 Petalostemum purpureum (Dalea p.) 1.00 Yellow Coneflower 0.69 Ratibida pinnata 4.80 10.14 Rudbeckia hirta Black-eyed Susan 1.50 0.96 Hoary Vervain Verbena stricta 24.28 Total Forbs **Temporary Grass Cover** Oz/acre Seeds/sq ft Lolium multiflorum 80.00 24.79 Annual Ryegrass 320.00 7.35 Avena sativa 32.14 Total Temp Grasses 400.00 638.0 ADDITIONAL COST TO THE OWNER. 15" LOCUST **⊙**637.9 5" MAPLE THAN 24 HOURS. DPW TO PLACE HYDROSEED IN 5" ORNAMENTAL ALL DISTURBED AREAS 637.9 16" LOCUST 5 'CHAIN LINK FENCE 18" PINE 5" MAPLE ASPHALT PAVEMENT 5" LOCUST 640.17 639.0 Z"_MAPLE ○ ⊕ ○ PERENNIAL PLANTING 637.44 + 4 637.49 637.86 5" LOCUST NATIVE PLANTING MIX 1 (MICHIGAN NATIVE MIX) 638.5 5" MAPLE 638.3 ° 5" LOCUST 638.1 5" MAPLE > ★637.6 4" PINE 638.04.K/ 638.09 637.3 🤨 5" LOCUST ★637.4 10" PINE POINT OF BEGINNING 638.88TC 638.38G UNIVERSITY STREET (60 FEET WIDE)

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IMPROVEMENT

26-01872 LAND & WATER CONSERVATION

FERNDALE PARKS AND

FERNDALE, MI 48220

RECREATION

DEPARTAMENT

SMITHGROUP

201 DEPOT STREET

ANN ARBOR, MI 48104

REV DATE

8/21/23

PROJECT NORTH

7/5/23

www.smithgroup.com

SECOND FLOOR

734.662.4457

SSUED FOR

SSUE FOR BID

MDNR REVIEW 4

MDNR REVIEW 3

MDNR REVIEW 2

SESC PERMIT

KEY PLAN

MDNR REVIEW

PARK DISTRICT REVIEW

SEALS AND SIGNATURES

* WOODHURST LANDSCAPE

ARCHITECT

COMPLY TO BE IMMEDIATELY REMOVED. ALL MATERIAL SUPPLIED FOR AN INDIVIDUAL ITEM ON THE PLANT LIST SHALL MATCH SIZE, SHAPE, FORM, AND NOTED REQUIREMENTS. IN ADDITION THE PLANT MATERIAL SHALL CONFORM TO THE

SPECIFICATIONS AND SUPPLEMENTARY REQUIREMENTS IN THE

LANDSCAPE ARCHITECT SHALL REVIEW PLACEMENT OF PLANT MATERIAL PRIOR TO INSTALLATION, AND RESERVES THE RIGHT TO ADJUST LAYOUT TO ACCOMMODATE SITE CONDITIONS AND DESIGN INTENT AT NO ADDITIONAL COST. ALL PLANTINGS SHALL BE INSTALLED IN A LOGICAL SEQUENCE WITHIN THE SAME PLANTING TIME FRAME. IF THE PLANT MATERIAL IS INSTALLED WITHOUT PRIOR APPROVAL THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REQUEST LAYOUT ADJUSTMENTS AT NO ADDITIONAL COST.

PROTECT PLANTS AND ENSURE HEALTH AND PLANT QUALITY DURING SHIPMENT, HANDLING, INSTALLATION AND ESTABLISHMENT. ALL LANDSCAPE BEDS SHALL RECEIVE 18" OF PLANTING MIX UNLESS

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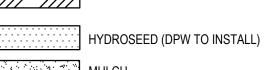
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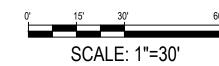
LEGEND

EXISTING TREE

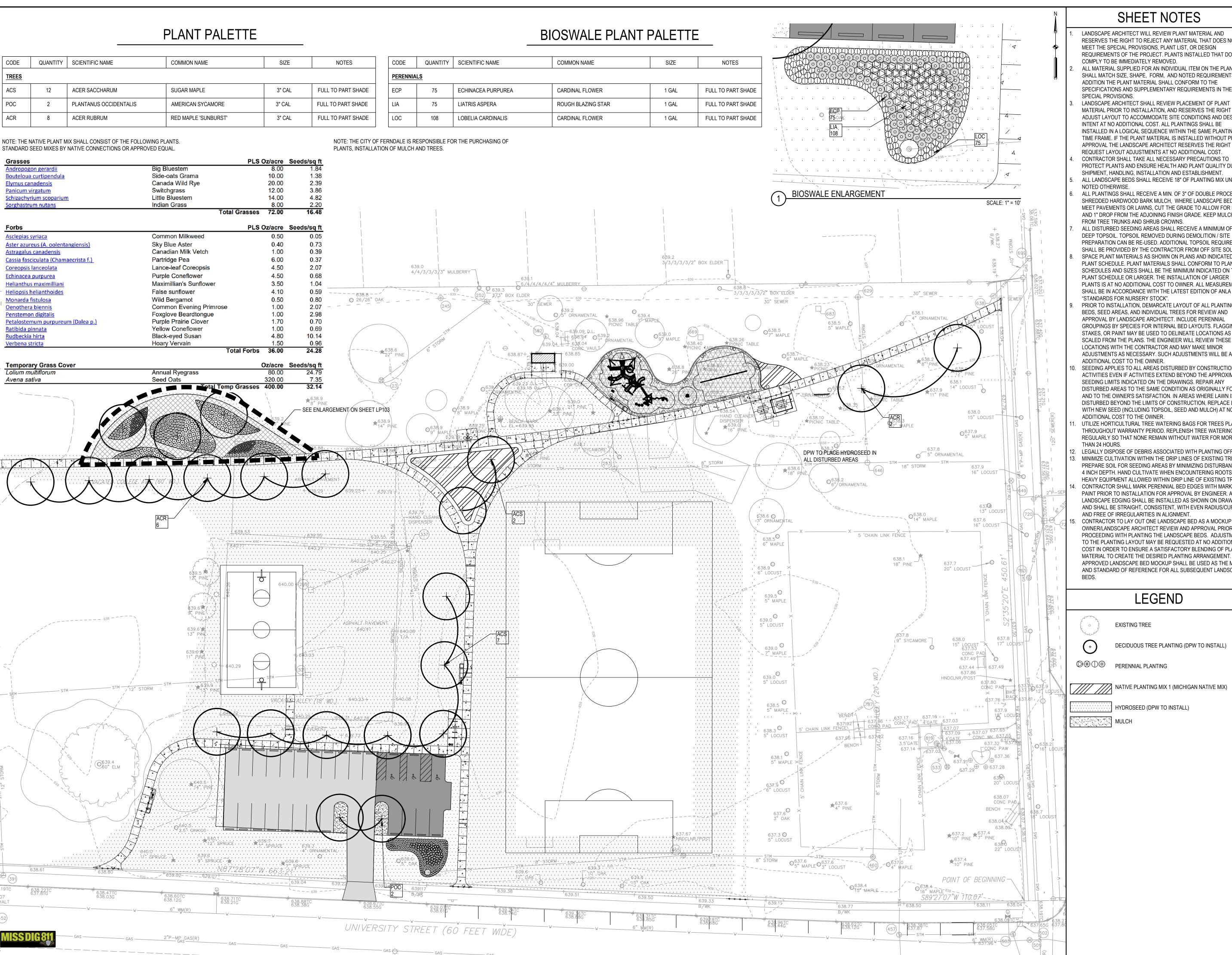
DECIDUOUS TREE PLANTING (DPW TO INSTALL)



DRAWING TITLE ALTERNATE B LANDSCAPE PLAN



SCALE PROJECT NUMBER



SHEET NOTES

LANDSCAPE ARCHITECT WILL REVIEW PLANT MATERIAL AND RESERVES THE RIGHT TO REJECT ANY MATERIAL THAT DOES NOT MEET THE SPECIAL PROVISIONS, PLANT LIST, OR DESIGN REQUIREMENTS OF THE PROJECT. PLANTS INSTALLED THAT DO NOT

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LEGEND

EXISTING TREE

DECIDUOUS TREE PLANTING (DPW TO INSTALL)

○ ⊕ ○ PERENNIAL PLANTING

HYDROSEED (DPW TO INSTALL)

WILSON PARK IMPROVEMENT

FERNDALE, MI 48220 26-01872 LAND & WATER CONSERVATION

FERNDALE PARKS AND RECREATION **DEPARTAMENT**

SMITHGROUP

201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroup.com

SSUED FOR REV DATE SSUE FOR BID 11/15/23 MDNR REVIEW 4 8/21/23 MDNR REVIEW 3 7/5/23 MDNR REVIEW 2 SESC PERMIT

SEALS AND SIGNATURES

PARK DISTRICT REVIEW



KEY PLAN



DRAWING TITLE ALTERNATE C LANDSCAPE PLAN



SCALE PROJECT NUMBER

CODE	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SPREAD	NOTES
PERENNIA	ALS				
PAV	42	PANICUM VIRGATUM	SWITCH GRASS	2'	FULL SUN TO PART SHADE
AST	117	ASCLEPIAS TUBEROSA	BUTTERFLY WEED	1-1.5'	FULL SUN
RUH	81	RUDBECKIA HIRTA	BALCK EYED SUSAN	3'	FULL SUN
IRV	51	IRIS VERSICOLOR	IRIS BLUE FLAG	2.5-5'	FULL SUN TO PART SHADE
NEP	115	NEPETA X FAASSENII 'WALKERS LOW'	WALKER'S LOW CATMINT	2-4'	FULL TO PARTIAL SUN
RHA	78	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC	5-7'	FULL SUN TO PART SHADE
TREES:					
ACR	3	ACER RUBRUM	RED MAPLE 'SUNBURST'	3" CAL	FULL TO PART SHADE

ACR -

SHEET NOTES

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CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT PLANTS AND ENSURE HEALTH AND PLANT QUALITY DURING SHIPMENT, HANDLING, INSTALLATION AND ESTABLISHMENT. ALL LANDSCAPE BEDS SHALL RECEIVE 18" OF PLANTING MIX UNLESS

NOTED OTHERWISE. ALL PLANTINGS SHALL RECEIVE A MIN. OF 3" OF DOUBLE PROCESSED SHREDDED HARDWOOD BARK MULCH, WHERE LANDSCAPE BEDS MEET PAVEMENTS OR LAWNS, CUT THE GRADE TO ALLOW FOR MULCH AND 1" DROP FROM THE ADJOINING FINISH GRADE. KEEP MULCH 4"

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"STANDARDS FOR NURSERY STOCK". PRIOR TO INSTALLATION, DEMARCATE LAYOUT OF ALL PLANTING BEDS, SEED AREAS, AND INDIVIDUAL TREES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. INCLUDE PERENNIAL GROUPINGS BY SPECIES FOR INTERNAL BED LAYOUTS. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. THE ENGINEER WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAY MAKE MINOR ADJUSTMENTS AS NECESSARY. SUCH ADJUSTMENTS WILL BE AT NO ADDITIONAL COST TO THE OWNER.

PLANTS IS AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS

SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA

SEEDING APPLIES TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND THE APPROXIMATED SEEDING LIMITS INDICATED ON THE DRAWINGS. REPAIR ANY DISTURBED AREAS TO THE SAME CONDITION AS ORIGINALLY FOUND AND TO THE OWNER'S SATISFACTION. IN AREAS WHERE LAWN IS DISTURBED BEYOND THE LIMITS OF CONSTRUCTION, REPLACE LAWN WITH NEW SEED (INCLUDING TOPSOIL, SEED AND MULCH) AT NO ADDITIONAL COST TO THE OWNER.

UTILIZE HORTICULTURAL TREE WATERING BAGS FOR TREES PLANTED THROUGHOUT WARRANTY PERIOD. REPLENISH TREE WATERING BAGS REGULARLY SO THAT NONE REMAIN WITHOUT WATER FOR MORE THAN 24 HOURS.

2. LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE. 13. MINIMIZE CULTIVATION WITHIN THE DRIP LINES OF EXISTING TREES. PREPARE SOIL FOR SEEDING AREAS BY MINIMIZING DISTURBANCE TO 4 INCH DEPTH. HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIP LINE OF EXISTING TREES. 4. CONTRACTOR SHALL MARK PERENNIAL BED EDGES WITH MARKER PAINT PRIOR TO INSTALLATION FOR APPROVAL BY ENGINEER. ALL LANDSCAPE EDGING SHALL BE INSTALLED AS SHOWN ON DRAWINGS AND SHALL BE STRAIGHT, CONSISTENT, WITH EVEN RADIUS/CURVES

AND FREE OF IRREGULARITIES IN ALIGNMENT. CONTRACTOR TO LAY OUT ONE LANDSCAPE BED AS A MOCKUP FOR OWNER/LANDSCAPE ARCHITECT REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH PLANTING THE LANDSCAPE BEDS. ADJUSTMENTS TO THE PLANTING LAYOUT MAY BE REQUESTED AT NO ADDITIONAL COST IN ORDER TO ENSURE A SATISFACTORY BLENDING OF PLANT MATERIAL TO CREATE THE DESIRED PLANTING ARRANGEMENT. THE APPROVED LANDSCAPE BED MOCKUP SHALL BE USED AS THE MODEL AND STANDARD OF REFERENCE FOR ALL SUBSEQUENT LANDSCAPE

LEGEND

EXISTING TREE

★ 638.9 8" PINE

DECIDUOUS TREE PLANTING (DPW TO INSTALL)

○⊕○ PERENNIAL PLANTING

NATIVE PLANTING MIX 1 (MICHIGAN NATIVE MIX)

HYDROSEED (DPW TO INSTALL)

WILSON PARK IMPROVEMENT

1280 HILTON ROAD

FERNDALE, MI 48220 26-01872 LAND & WATER CONSERVATION

Owner:

FERNDALE PARKS AND RECREATION **DEPARTAMENT**

SMITHGROUP

201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroup.com

ISSUED FOR	REV	DATE
-		
ISSUE FOR BID		11/15/23
MDNR REVIEW 4	<u> </u>	8/21/23
MDNR REVIEW 3	<u> </u>	7/5/23
MDNR REVIEW 2		5/31/23
SESC PERMIT		3/21/23
MDNR REVIEW		3/31/23
PARK DISTRICT REVIEW		1/31/23

SEALS AND SIGNATURES

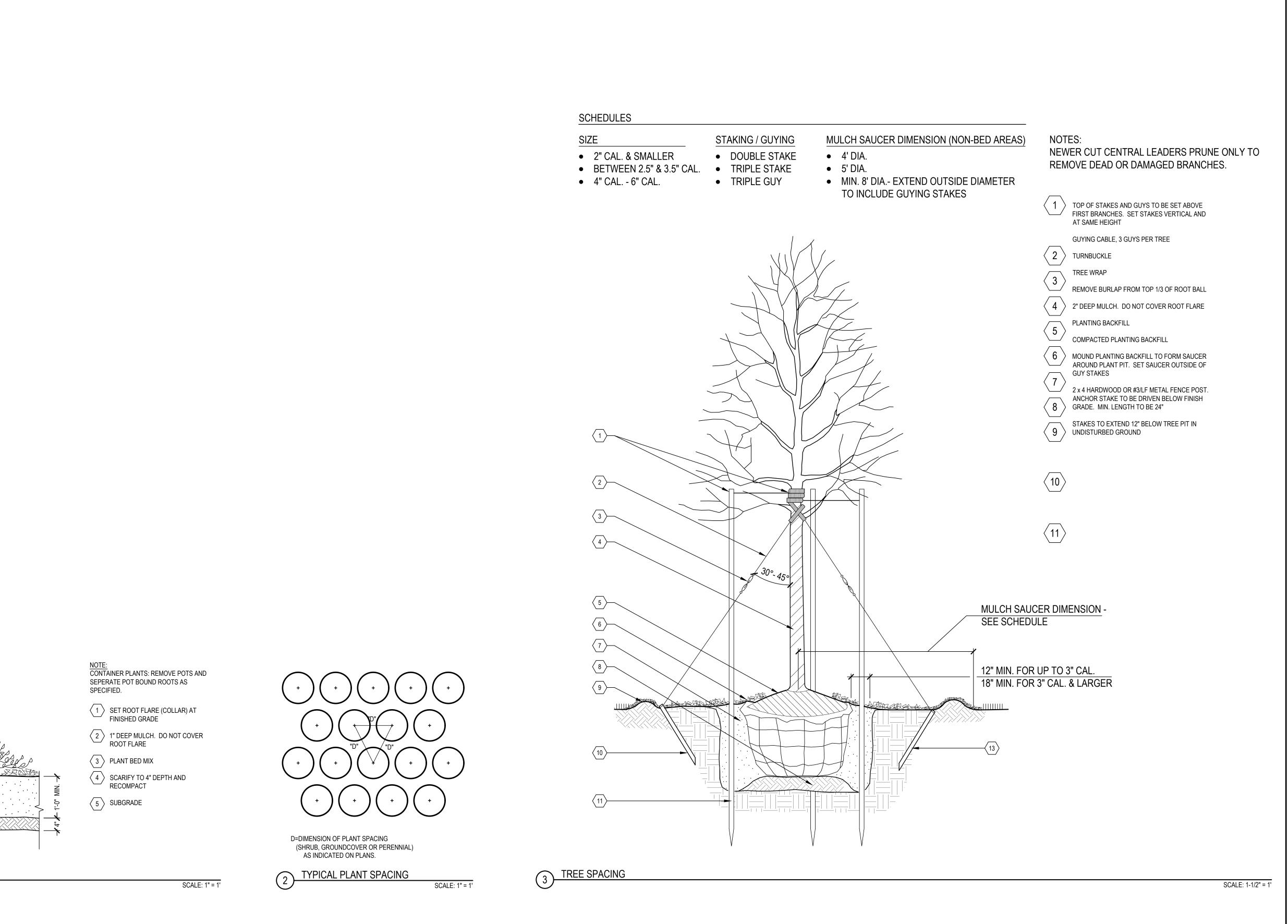


KEY PLAN



DRAWING TITLE ALTERNATE C LANDSCAPE PLAN -SCALE: 1"=10'

SCALE PROJECT NUMBER



SPACING AS SHOWN

PERENNIAL PLANT SPACING

WILSON PARK IMPROVEMENT PROJECT

1280 HILTON ROAD
FERNDALE, MI 48220
26-01872 LAND & WATER CONSERVATION

Owno

FERNDALE PARKS AND RECREATION DEPARTAMENT

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ISSUE FOR BID

ISSUE FOR BID

MDNR REVIEW 4

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MDNR REVIEW

SEALS AND SIGNATURES



KEY PLAN



RAWING TITLE

LANDSCAPE DETAILS

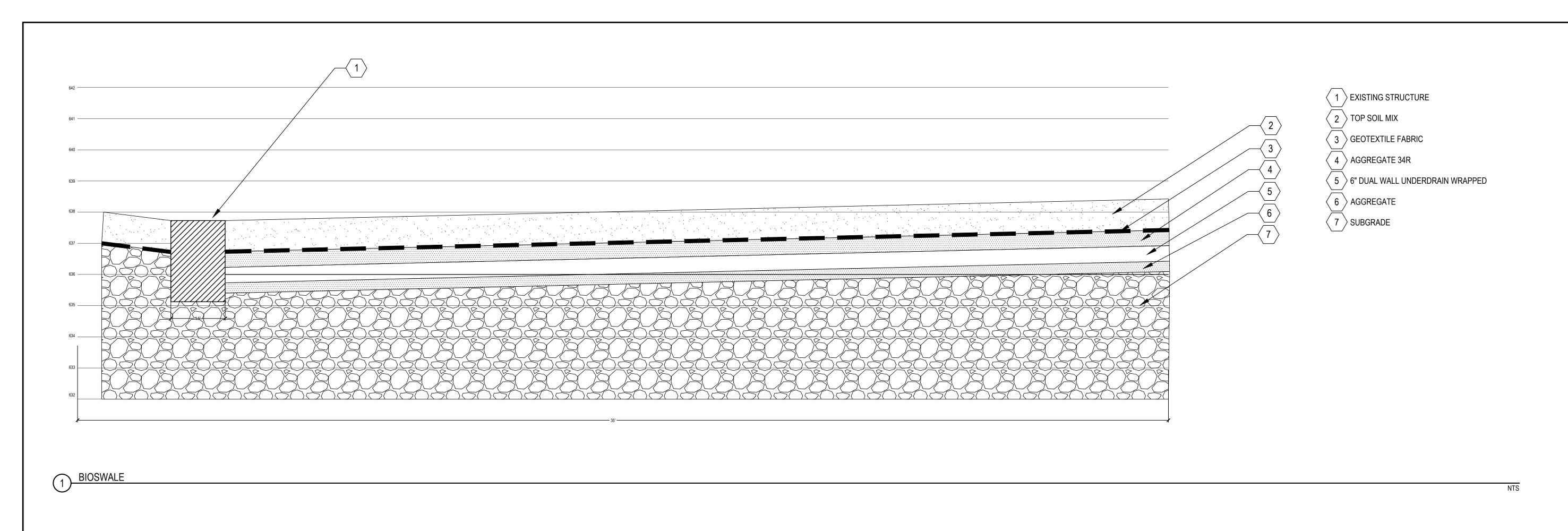
SCALE

DRAWING NUMBER

PROJECT NUMBER

LP500

14337



1280 HILTON ROAD
FERNDALE, MI 48220
26-01872 LAND & WATER CONSERVATION
FUND

vner

FERNDALE PARKS AND RECREATION DEPARTAMENT

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SEALS AND SIGNATURES



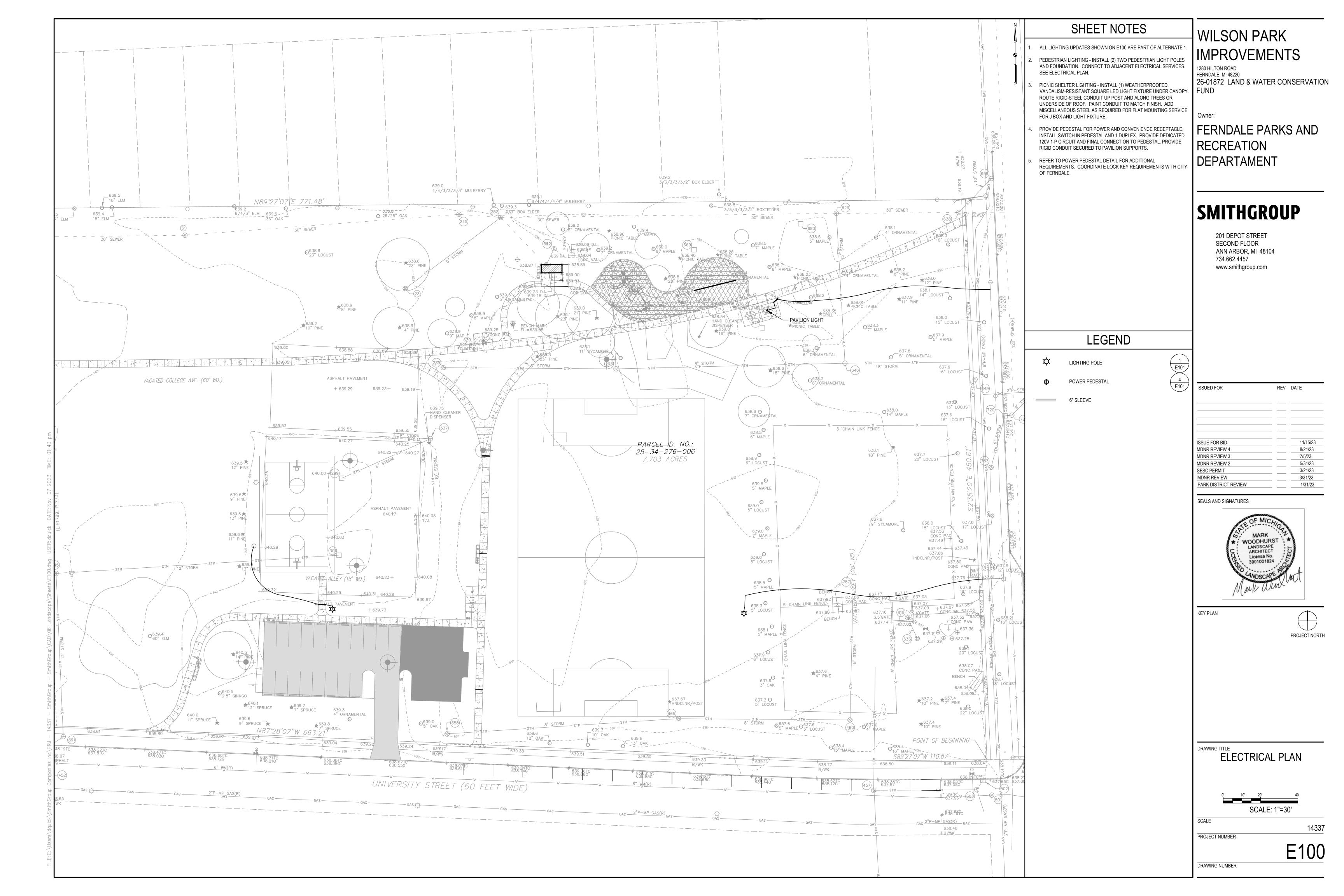
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LANDSCAPE DETAILS

PROJECT NUMBER

LP50 DRAWING NUMBER



COMPOSITE TUFF POLE Washington Style, 17" Anchor Base and Direct Burial THE HISTORICAL SERIES Washington Distinctive, classical beauty Fluted Shaft Virtually maintenance free, durable fiberglass reinforced composite One-piece construction Smooth or fluted, tapered shafts Standard or custom finishes and colors Smooth Shaft Standard, special, premium, and architectural colors available, or any color can be matched Gloss or semi-gloss finishes standard; custom finishes available Mounting heights of 9, 12, or 14 feet; custom heights to 20 feet Superior wind, loading, and environmental tolerance Non-conductive for safety Molded-in color UV and weather resistant polyurethane coating Standard 3" x 3" dia. aluminum tenon for luminaire mounting Anchor Base or Direct Burial 37/1×481 a 55/1 Handhale

Shakespeare • 800.800.9008 • www.skp-cs.com

296" x 12" cable entrance

5 square

LIGHTING POLE DETAIL

SCALE: 1" = 1'

KEYED NOTES:

RECTANGULAR STRAIGHT NEMA 3R ENCLOSURE 3"x6"x30" LONG, 3/16" THICK.

PERIMETER OF CAP. PRIME AND PAINT BLACK.

EQUAL TO INTERMATIC #WP1010MC WITH DOUBLE GFCI BASE

Y STUB UNDERGROUND CONDUITS 2" ABOVE FINISHED GRADE INSIDE PICLOSURE.

6 CLASS 'A' CONCRETE (3000 PSI).

1" WASHED RIVER ROCK.

OUTSIDE OF THE ENCLOSURE AS INDICATED. WRAP THE OUTSIDE OF THE TUBE WITH 10 MIL PLASTIC TAPE, HALF LAPPED.

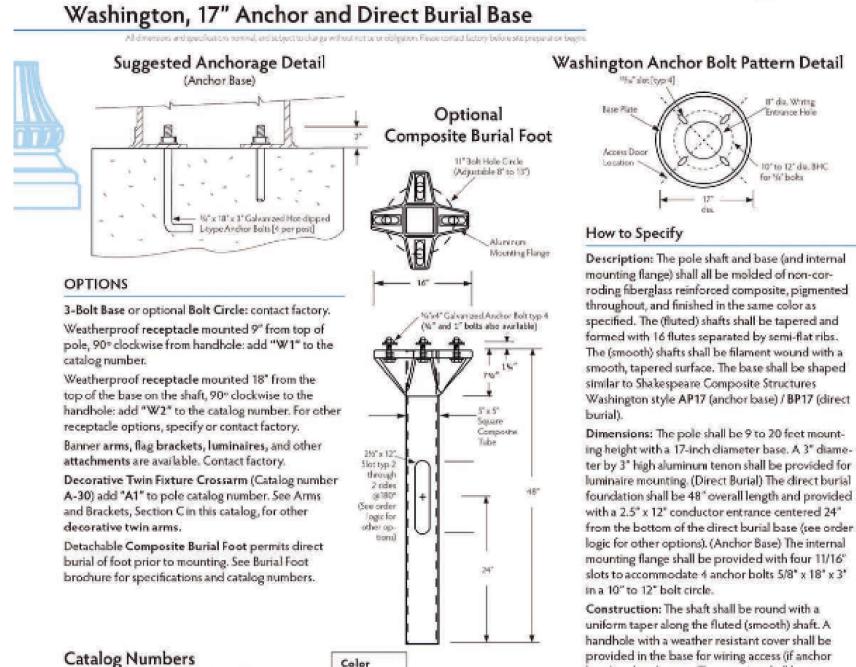
CONTRACTOR IS TO STAMP CORRECT CIRCUIT NUMBER DIRECTLY ON THE TOP OF EACH RECEPTACLE PEDESTAL WITH 1/2" LETTERS.

PROVIDE 4" THICK CONCRETE COLLAR 4" ABOVE, ABOVE GRADE. ENSURE (14) WEATHERPROOF DOOR OF RECEPTACLE ENCLOSURE WILL OPEN UNOBSTRUCTED PRIOR TO CONCRETE POUR.

Historical Series

P17

AP17 and BP17



Color 1=Black 2=Gray 3=Brown for Washington Style 17" 4=Dk Green Shaft Type B=Direct Burial

5=Dk Bronze P=Washington 9=Specify*

Finish G-Gloss Base Dia. (in.) 17" dia. Mounting Height (ft.) 9 to 20 **Direct Burial Conduit Entrance** (use "1" for Anchor Base)
Location from 1 es.
bottom of pole 2"x12" 2"x12" @ 180* "Standard, prensium, and architectural colors are available. See Tuff-Pole" Colee Palette brochure.



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LIGHTING POLE DETAIL

Washington

base) and anchorage. The opening shall be no

smaller than 3.5" wide at the top by 4.75" at the bottom by 5.5" high. The cover shall be made of

fiberglass reinforced composite and shall bear the

manufacturer's name. The cover shall be attached

The (anchor base) mounting flange shall be molded

in one piece of fiberglass reinforced composite with

a minimum thickness of 15" and shall be permanently

bonded flush to the bottom of the base. Each pole

shall be finished with a (glossy / semi-gloss) weather resistant polyurethane having a minimum dry film

(Add "Performance and Testing Requirements"

Washington P17 style poles are engineered to with-

stand at least 100 mph wind forces, with luminaires

Many Other loading options are available. For other

up to 6.2 EPA (sq. ft.) weighing up to 150 pounds

loading requirements, contact the factory.

from the Specification Data sheet on page 3.)

with 2 stainless steel flat countersunk hex socket head screws. Threaded inserts shall be incorporated

in the pole base.

thickness of 1.5 mils.

EPA Rating

1280 HILTON ROAD FERNDALE, MI 48220 26-01872 LAND & WATER CONSERVATION

IMPROVEMENTS

WILSON PARK

FERNDALE PARKS AND RECREATION DEPARTAMENT

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SEALS AND SIGNATURES



KEY PLAN



ELECTRICAL DETAILS



SCALE PROJECT NUMBER

DRAWING NUMBER

E101

SCALE: 1" = 1'

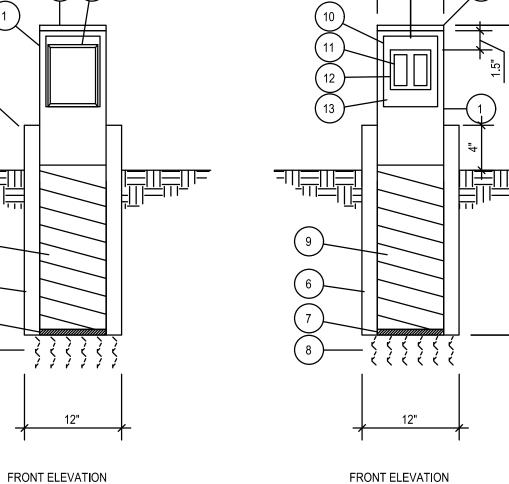
SECTION B

POWER PEDESTAL

SECTION

1 LIGHTING POLE FOUNDATION

(WEATHERPROOF COVER INSTALLED)



(WEATHERPROOF COVER OFF)



Shakespeare

PRIME AND PAINT, COLOR TO BE DETERMINED BY OWNER.

1/8" THICK STEEL TOP. PROVIDE CONTINUOUS WELD ALONG

\ QUADRA-PLEX WEATHERPROOF WHILE IN USE OUTLET COVER WITH STAINLESS STEEL LOCKING MECHANISM FLUSH IN HINGED COVER CONFIGURATION. PAINT COVER TO MATCH ENCLOSURE.

(4) WELD 1/4" STEEL NUT ONTO THE INSIDE FACE OF THE STEEL TUBE OPPOSITE THE CONVENIENCE RECEPTACLES FOR ATTACHING

SYSTEM GROUND WIRING.

TWO 3"x6"x3/16" STEEL PLATES (ONE EACH SIDE) WELDED TO THE BASE OF THE STEEL TUBE.

PROVIDE 1/8" THICK BITUMINOUS COATING ON THE INSIDE AND

OUTLINE OF WEATHERPROOF COVER.

OUTLINE OF QUADRA-PLEX GFCI CONVENIENCE RECEPTACLE FORM.

OUTLINE OF RECTANGULAR HOLE IN THE STEEL TUBE FOR

QUADRA-PLEX GFCI CONVENIENCE RECEPTACLE.

BASIS OF DESIGN: WIREMOLD OUTDOOR POWER PEDESTAL - 30" - BLACK