LEGAL DESCRIPTION

THE LAND SITUATED IN THE TOWNSHIP OF BROWNSTOWN, COUNTY OF WAYNE IN THE STATE OF MICHIGAN AND DESCRIBED AS FOLLOWS:

A PART OF THE SOUTHEAST 1/4 OF SECTION 5, TOWN 4 SOUTH, RANGE 10 EAST, BROWNSTOWN TOWNSHIP, WAYNE COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 5; THENCE NORTH 00 DEGREES 41 MINUTES 10 SECONDS EAST 435.65 FEET ALONG THE EAST LINE OF SAID SECTION 5 ALSO BEING THE CENTERLINE OF TELEGRAPH ROAD; THENCE NORTH 89 DEGREES 45 MINUTES 24 SECONDS WEST 100.00 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY LINE OF TELEGRAPH ROAD; THENCE NORTH 00 DEGREES 41 MINUTES 10 SECONDS EAST 85.00 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE TO THE POINT OF BEGINNING THENCE NORTH 89 DEGREES 45 MINUTES 24 SECONDS WEST 140.21 FEET; THENCE ALONG A CURVE TO THE LEFT 91.00 FEET, SAID CURVE HAVING A RADIUS OF 795.82 FEET, A CENTRAL ANGLE OF 06 DEGREES 33 MINUTES 06 SECONDS AND A LONG CHORD BEARING OF SOUTH 86 DEGREES 58 MINUTES 30 SECONDS WEST 90.95 FEET; THENCE ALONG A CURVE TO THE RIGHT 339.22 FEET, SAID CURVE HAVING A RADIUS OF 740.82 FEET, A CENTRAL ANGLE OF 03 DEGREES 02 MINUTES 00 SECONDS AND A LONG CHORD BEARING OF SOUTH 85 DEGREES 12 MINUTES 30 SECONDS WEST 39.22 FEET; THENCE NORTH 00 DEGREES 41 MINUTES 10 SECONDS EAST 158.48 FEET; THENCE SOUTH 89 DEGREES 18 MINUTES 50 SECONDS EAST 270.00 FEET TO A POINT ON SAID WESTERLY RIGHT OF WAY LINE; THENCE SOUTH 00 DEGREES 41 MINUTES 10 SECONDS WEST 147.75 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE TO THE POINT OF BEGINNING.

PROJECT DESCRIPTION

THE SITE WAS HOME TO VACANT GRASS LOT. PROPOSED IMPROVEMENTS INCLUDE A NEW TACO BELL SITE ALONG WITH PARKING AREAS, SIDEWALKS, UTILITIES, AND AMENITY IMPROVEMENTS.

MICHIGAN SPECIFICATION

THE STANDARD SPECIFICATIONS OF THE STATE OF MICHIGAN, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

| PLAN REPRODUCTION WARNING |
|----------------------------------|
| THE PLANS HAVE BEEN PREPARED |
| FOR PRINTING ON ANSI D (22"x34") |
| SHEETS. PRINTING ON OTHER SIZE |
| SHEETS MAY DISTORT SCALES. |
| REFER TO GRAPHIC SCALES. |

IMPROVEMENT PLANS

18880 TELEGRAPH RD BROWNSTOWN, MI 48174 MARCH 01, 2022



INDEX OF DRAWINGS

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GPD GROUP ENGINEER

GPD GROUP PROFESSIONAL CORPORATION 520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: JIM NEIDLINGER PHONE 678.781.5070

OWNER AND DEVELOPER

SAM YALDO TEL - SIB, LLC 3100 NORTHWESTERN HWY, SUITE 110 FARMINGTON HILLS, MI 48334

PRIOR TO THE START OF CONSTRUCTION THE FOLLOWING PERMITS SHALL BE APPROVED AND IN HAND EGLE PART 399 WATER SYSTEMS PERMIT MDOT RIGHT-OF-WAY PERMIT

▲ GPD GROUP Professional Corporation

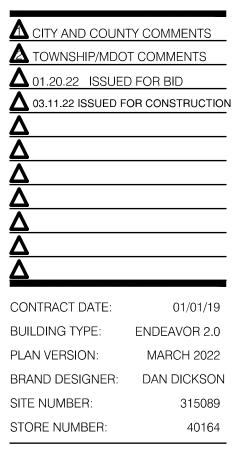
| Item of Work | QUANTITY | UNITS | UNIT PRICE | TOTAL COST |
|--|----------|-------|------------|-------------|
| 6" SDR 35 Sanitary Sewer | 273 | LF | \$50.00 | \$13,650.00 |
| 6" Sanitary Sewer connection into existing manhole | 1 | LS | \$800.00 | \$800.00 |
| Sanitary Clean Out | 4 | EA | \$225.00 | \$900.00 |
| Two-way Sanitary Clean Out | 2 | EA | \$450.00 | \$900.00 |
| 1,000 Gallon Grease Interceptor | 1 | EA | \$8,000.00 | \$8,000.00 |
| 3" PVC sewer vent pipe from grease interceptor | 24 | LF | \$30.00 | \$720.00 |
| 1.5" Copper Type K Water Service Lateral | 121 | LF | \$15.00 | \$1,815.00 |
| 8" Class 54 Ductile Iron Water Main | 63 | LF | \$65.00 | \$4,095.00 |
| 8X2 Reducer | 1 | EA | \$600.00 | \$600.00 |
| 45° Elbow | 2 | EA | \$300.00 | \$600.00 |
| 90° Elbow | 2 | EA | \$805.00 | \$1,610.00 |
| Hydrant Assembly | 1 | EA | \$4,000.00 | \$4,000.00 |
| Shut off valve and box | 1 | EA | \$1,200.00 | \$1,200.00 |
| 6" PVC Storm Sewer | 120 | LF | \$30.00 | \$3,600.00 |
| 12" RCP Storm Sewer | 472 | LF | \$30.00 | \$14,160.00 |
| 18" RCP Storm Sewer | 3 | LF | \$47.00 | \$141.00 |
| Storm Clean Out | 1 | EA | \$225.00 | \$225.00 |
| Standard Storm Manhole (Storm) | 1 | EA | \$2,500.00 | \$2,500.00 |
| | | | | 1 |

| | | | Total Cost | \$210,342.00 |
|-------------------------------|-------|----------|-------------------|--------------|
| 8" Concrete Pavement | 260 | SY | \$44.00 | \$11,440.00 |
| 6" Concrete Pavement | 555 | SY | \$33.00 | \$18,315.00 |
| 5" Asphalt Pavement | 1,515 | SY | \$25.65 | \$38,859.75 |
| 3.5" Asphalt Pavement | 780 | SY | \$20.50 | \$15,990.00 |
| 8" - MDOT 21AA Aggregate Base | 1,080 | SY | \$15.35 | \$16,578.00 |
| 6" - MDOT 21AA Aggregate Base | 815 | SY | \$11.70 | \$9,535.50 |
| 111001 211111000 0000 0000 | | <u>.</u> | YU.23 | Ŷ±,0,,,,0 |

The list of quantities and costs above shall not be used by the contractor for bidding purposes, the table above is intended for Brownstown Township to estimate Bond and inspection fees. In providing estimates of probable construction cost, the Client understands that the Consultant has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the Consultant's estimates of probable construction cost are made on the basis of the Consultant's professional judgment and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from the Consultant's estimate of probable construction cost. Please note that the pricing, contingencies and opinion contained or referenced herein anticipates a standard economic environment, and does not account for any uncertainty related to COVID-19 or the current extreme market conditions. As such, Client and Consultant recognize the current market volatility due to such factors including but not limited to COVID-19 restrictions, material and equipment shortages, and rapid price fluctuations. The existence and contents of this document shall not be construed to create responsibility or liability of Client or Consultant for changes related to this estimate of probable cost.







TACO BELL

18708 TELEGRAPH RD BROWNSTOWN, MI 48183







| Project: | Taco Bell |
|-----------|--------------------------|
| Location: | Brownstown (Redwood), MI |
| Date: | March 1st, 2022 |

DEMOLITION NOTES GENERAL PLAN AND SURVEY NOTES CONCRETE NOTES AND SPECIFICATIONS CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY DEMOLITION PROCESS. CERTAIN . PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS INCLUDING BUT NOT RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND LIMITED TO: MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION LARGE GENERATORS, ETC. THESE ACTIVITIES WILL REQUIRE SPECIFIC CURRENT STATE'S EPA OR SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY LOCAL GOVERNING AUTHORITIES AIR PERMITS FOR INSTALLATION AND OPERATION. CONTRACTORS REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE MUST SEEK AUTHORIZATION FROM THE CORRESPONDING GOVERNING BODIES. FOR DEMOLITION OF PERMITTING AUTHORITIES. ALL COMMERCIAL SITES, A NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO THE CURRENT STATE'S EPA AND LOCAL GOVERNING AUTHORITIES TO DETERMINE ANY THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SECTION OF THESE CORRECTIVE ACTIONS THAT MAY BE REQUIRED. NOTES ENTITLED "GRADING PLAN NOTES" FOR DEFINITIONS AS MAY BE NECESSARY FOR "GEOTECHNICAL ENGINEER" AND "SOILS REPORT". DEMOLITION INCLUDES THE FOLLOWING: PROJECT REQUIREMENTS. P.A. TRANSFER BENCHMARK CONTROL TO NEW LOCATIONS OUTSIDE THE DISTURBED AREA PRIOR TO ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, COMMENCING DEMOLITION OPERATIONS (WHEN APPLICABLE). SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL DEMOLITION AND REMOVAL OF SITE IMPROVEMENTS NECESSARY FOR THE PROPOSED GOVERNING AUTHORITY. THE SOILS REPORT AND RECOMMENDATIONS SET CONSTRUCTION OF NEW IMPROVEMENTS. FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS REROUTING, RELOCATING, DISCONNECTING, CAPPING OR SEALING, AND ABANDONING/REMOVING AND TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE SITE UTILITIES IN PLACE (WHICHEVER IS APPLICABLE). PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION/PROJECT RECOMMENDATIONS. MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT AND PLANS, ETC. REMOVE AND LEGALLY DISPOSE OF ITEMS CALLED OUT TO BE REMOVED. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. THOSE 4. THE CONTRACTOR SHALL, UPON BECOMING AWARE OF SUBSURFACE OR ITEMS INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN SHALL BE CLEANED, SERVICED, AND LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE OTHERWISE PREPARED FOR REUSE. CONTRACTOR TO STORE AND PROTECT AGAINST DAMAGE. ORIGINAL SOIL EXPLORATION WORK, PROMPTLY NOTIFY THE OWNER REINSTALL ITEMS IN LOCATIONS INDICATED. VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS AND IN WRITING, AS PROTECT ITEMS INDICATED TO REMAIN AGAINST DAMAGE AND SOILING THROUGHOUT TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONSTRUCTION. WHEN PERMITTED BY THE CONSTRUCTION MANAGER OR OWNER, ITEMS MAY BE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION THROUGHOUT CONSTRUCTION AND THEN THE PLAN AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS. PROMPTLY REPAIR DAMAGES TO ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY ADJACENT FACILITIES CAUSED BY DEMOLITION OPERATIONS AT THE CONTRACTORS COST. AND IN WRITING AS REQUIRED ABOVE, OF SUCH DIFFERING CONDITIONS. CONTRACTOR SHALL SCHEDULE DEMOLITION ACTIVITIES WITH THE CONSTRUCTION/PROJECT . ALL WORK WITHIN THE RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE MANAGER INCLUDING THE FOLLOWING: GOVERNING JURISDICTION AND SPECIFICATIONS. CONTACTING SURFACE. A. DETAILED SEQUENCE OF DEMOLITION AND REMOVAL WORK, WITH STARTING AND ENDING DATES FOR EACH ACTIVITY 6. CONTRACTOR SHALL COORDINATE ANY MAINTENANCE OF TRAFFIC WITH THE B. DATES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES. OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION PRIOR TO . IDENTIFY AND ACCURATELY LOCATE UTILITIES AND OTHER SUBSURFACE STRUCTURAL, ELECTRICAL CONSTRUCTION. OR MECHANICAL CONDITIONS. CONTRACTOR SHALL AT ALL TIMES ENSURE THAT SWPP MEASURES REGULATORY REQUIREMENTS: COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE BEFORE STARTING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ACCORDANCE WITH ACI RECOMMENDATIONS. AUTHORITIES HAVING JURISDICTION ALTERATION. (SEE SWPP PLANS). MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST 8. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED DAMAGE THROUGHOUT CONSTRUCTION OPERATIONS. AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS, AS DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF WHEN AUTHORIZED IN WRITING BY OWNER'S REPRESENTATIVE AND AUTHORITIES HAVING POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS INTO THE STORM SYSTEM. ALL SEDIMENT LADEN MATERIAL ON PAVEMENT OR ACCEPTABLE TO OWNER AND TO GOVERNING AUTHORITIES. WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE (SEE SWPP PLANS). LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES SERVING THE SITE. ARRANGE TO SHUT OFF AND CAP UTILITIES WITH UTILITY COMPANIES AND FOLLOW THEIR THESE PROJECT CONSTRUCTION DOCUMENTS SHALL NOT CONSTITUTE A RESPECTIVE UTILITY KILL AND CAP POLICIES. DO NOT START DEMOLITION WORK UNTIL UTILITY THE PROJECT WITHIN ONE YEAR OF PROJECT COMPLETION. DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING BY THE UTILITY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR THE ENGINEER AND THE SUBCONTRACTOR. COMPANY MAXI 10. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION OR SAFETY, CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT S BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN AREA. SAFE PASSAGE INCLUDES THE ERECTION OF TEMPORARY PROTECTION AND/OR BARRICADES CONSTRUCTION BY THE CONTRACTOR OR SUBCONTRACTORS. AS PER LOCAL GOVERNING AUTHORITIES AND IN ACCORDANCE WITH THE CURRENT ADA REGULATIONS. USE OF EXPLOSIVES WILL NOT BE PERMITTED. DETAILS, NOTES, AND OTHER REFERENCES CONTAIN HEREIN MAY HAVE BEEN ATTAINED FROM OUTSIDE REFERENCE SOURCE LOCATIONS SUCH AS, BUT NOT CLEAN ADJACENT BUILDINGS AND IMPROVEMENT OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION LIMITED TO, LOCAL AUTHORITY AGENCIES, DESIGN REFERENCE MANUALS, OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION. MANUFACTURE'S RECOMMENDED DOCUMENTATION, OR OTHER INDUSTRY SOURCES. GPD DOES NOT WARRANT INFORMATION OR REPRESENTATION OF PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO SAID CONTENT CONTAINED HEREIN, IT IS SHOWN SOLELY FOR REFERENCE ACCUMULATE ON-SITE. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE WILL NOT BE ONLY OF DESIGN INTENT AT THE TIME OF PLAN PREPARATION. THE PERMITTED. NO BURNING OF ANY MATERIALS ON SITE SHALL BE PERMITTED. CONSTRUCTION TEAM MEMBERS (CONTRACTOR AND CONSTRUCTION MANAGER, WHERE APPLICABLE) SHALL OBTAIN THE MOST CURRENT DETAILED 2. IT IS NOT EXPECTED THAT ASBESTOS WILL BE ENCOUNTERED IN THE COURSE OF THIS CONTRACT. II INFORMATION FROM THE RESPECTIVE SOURCE TO CONSTRUCT THE ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE ENCOUNTERED, DO NOT DISTURB THE IMPROVEMENTS UNDER THE AUTHORITY OF THE RESPECTIVE GOVERNING MATERIALS. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND THE OWNER. AGENCIES. IF ANY DISCREPANCIES ARE DISCOVERED BETWEEN THE ORIGINAL CI DESIGN INTENT AND THE CONSTRUCTION TEAM OBTAINED REFERENCE SURVEY THE CONDITION OF THE STRUCTURE TO DETERMINE WHETHER REMOVING ANY ELEMENT MATERIAL, THE CONSTRUCTION MANAGER OR THE PROJECT'S CONTACT MIGHT RESULT IN A STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE PERSON SHALL BE NOTIFIED PRIOR TO COMMENCING OF ASSOCIATED WORK. STRUCTURE OR ADJACENT STRUCTURES THROUGHOUT CONSTRUCTION. 12. CONDUCT CONSTRUCTION OPERATIONS TO ENSURE MINIMUM INTERFERENCE 4. DEMOLISH BUILDING AND STRUCTURAL PADS COMPLETELY AND REMOVE FROM THE SITE. USE (VEHICULAR TRAFFIC PAVEMENT) (TUF-STRAND SF OR APPROVED EQUAL WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER FOLLOWS 14.A. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM SHALL BE 1.5 TO 2.25 INCHES IN LENGTH. 14.B. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS. OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE 14.C. BREAK UP AND REMOVE CONCRETE SLABS ON GRADE. ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS. 5. BELOW-GRADE DEMOLITION: DEMOLISH FOUNDATION WALLS, PAVEMENTS, AND OTHER 13. THE A.L.T.A. SURVEY BY KEM-TEC, DATED 10/04/19 SHALL BE CONSIDERED A **BELOW-GRADE DEMOLITION, AS FOLLOWS:** PART OF THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING A780 5.A. COMPLETELY REMOVE BELOW-GRADE DEMOLITION, INCLUDING FOUNDATION WALLS FOOTINGS IMPROVEMENTS PER THESE PLANS. KNOWN AND UNKNOWN PAVEMENT SECTIONS INCLUDING UNDERLYING CONCRETE SLABS, AND OTHER BELOW GRADE CONCRETE SLABS FOUND DURING DEMOLITION (INCLUDING ITEMS 14. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE WHICH MAY NOT BE IDENTIFIED HEREIN). BASED ON FIELD SURVEYS, SITE RECORDS, ETC. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY 5. FILLING BELOW-GRADE AREAS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. FROM DEMOLITION OF BUILDINGS, PAVEMENTS, AND OTHER REMOVED ITEMS WITH SOIL NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR MATERIALS ACCORDING TO REQUIREMENTS PER SOILS REPORT AND ON-SITE GEOTECHNICAL DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE. REQUIREMENTS OF ASTM C494 AND/OR ASTM C1017. ENGINEER'S REPRESENTATIVE. CONTRACTOR SHALL CONTACT GEOTECHNICAL ENGINEER PRIOR TO FILLING ANY AREAS TO OBSERVE FILL PROCEDURES. 15. ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON THE SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. DO NOT CLOSE CONSTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS. BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN. 211.1. 8. CONTRACTOR TO WET SAWCUT EXISTING PAVEMENT TO REMAIN AT NEXT NEAREST JOINT PRIOR TO REMOVALS OF CURB, GUTTER, PAVEMENT, ETC. 16. IN SOME CASES, THE DEVELOPER OR OWNER MAY HAVE PROVIDED THEIR OVERALL DEVELOPMENT PLANS FOR THE PROJECT DESIGN RATHER THAN A 9. THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WITH SMALL HANDHELD GRINDERS FIELD SURVEY. (SEE SITE PLAN FOR NOTES WHEN THIS IS THE CASE). ALL OR SCARIFIERS OR OTHER METHODS, WITH THE APPROVAL OF THE CONSTRUCTION MANAGER. TAKE DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS CARE DURING MARKING REMOVAL NOT TO SCAR, DISCOLOR, OR OTHERWISE DAMAGE THE PAVEMENT WERE BASED ON SAID DEVELOPMENT PLANS. THE CONTRACTOR SHALL FIELD SURFACE. DO NOT OVERPAINT OR USE OTHER METHODS OF COVERING MARKINGS INSTEAD OF VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR REMOVAL SHALL NOTIFY CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA . WHEN NOTED AND ALLOWED BY THE OWNER, THE CONTRACTOR MAY RE-USE EXISTING WHEELSTOPS COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO FOR THE PROPOSED SITE. CONTRACTOR AND CONSTRUCTION MANAGER SHALL COORDINATE WHICH BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF EXISTING WHEELSTOPS MAY BE RE-USED PRIOR TO DEMOLITION. CONTRACTOR SHALL ENSURE THAT ALL RE-USED WHEELSTOPS ARE PROTECTED DURING CONSTRUCTION. SUCH NOTIFICATION HAS NOT BEEN GIVEN. PAPER. NO POOLING OF MATERIAL SHALL BE ACCEPTED. 1. IF UNDERGROUND TANKAGE IS CALLED FOR DEMOLITION, THE CONTRACTOR SHALL COORDINATE 7. THE CONTRACTOR SHALL RUN AN INDEPENDENT VERTICAL CONTROL REMOVAL AND REPLACEMENT WITH THE STATE BUREAU OF UNDERGROUND STORAGE TANK TRAVERSE TO CHECK BENCHMARKS AND A HORIZONTAL CONTROL TRAVERSE

- REGULATIONS (BUSTR). UNDERGROUND TANK REMOVAL SHALL ALSO INCLUDE THE REMOVAL OF ANY MONITORING WELLS, OIL/GAS WELLS, AND MINE SHAFTS, IN ACCORDANCE WITH GOVERNING AUTHORITIES HAVING JURISDICTION. 2. CONTRACTOR SHALL FULLY SECURE WORK AREA WITH THE APPROPRIATE SIGNAGE, FENCING,
- AND BARRICADES WHICH ACCOMMODATE VISUALLY IMPAIRED PERSONS AS AGREED UPON WITH SITE CONSTRUCTION/PROJECT MANAGER AND OWNER TO WARN AND KEEP PEOPLE OUT OF THE SITE WORK AREA FOR THE DURATION OF THE PROJECT.
- 18. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARDS, SPECIFICATIONS, AND GENERAL CONDITIONS OF THE CHARTER TOWNSHIP OF BROWNSTOWN.

GEOMETRIC DATA. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE

ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

THROUGH THE REFERENCED PROJECT CONTROL DATUM TO CONFIRM

ALL EXTERIOR SITE SPECIFIC PORTLAND CEMENT CONCRETE (PCC) (I.E. SIDEWALK. PAVEMENT OR CURBING) SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST EDITIONS OF THE STATE DEPARTMENT OF TRANSPORTATION (DOT) AND THE AMERICAN CONCRETE INSTITUTE (ACI) SPECIFICATIONS USING THE RESPECTIVE ASTM STANDARDS FOR MATERIALS USED, MIXING, TRANSPORTATION, FORMING, PLACEMENT, CURING, AND SEALING. THE MINIMUM STRENGTH FOR NORMAL WEIGHT CONCRETE IS 4000 PSI AT 28 DAY STRENGTH. CONTRACTOR SHALL REFER TO DETAILS, NOTES, AND SPECIFICATIONS WITHIN THE CONSTRUCTION DOCUMENTS FOR VARIATIONS TO THIS SPECIFICATION. MIX DESIGN SHOP DRAWINGS SHALL BE TAILORED TO THE ACTUAL FIELD PLACEMENT CONDITIONS AND BE SUBMITTED TO THE CONSTRUCTION/PROJECT MANAGER IN ACCORDANCE WITH THE

ALL EXTERIOR CONCRETE CURBS SHALL HAVE JOINTS PER ACI 330. CURB JOINTS ARE TO ALIGN WITH CONCRETE PAVEMENT JOINTS WHERE APPLICABLE, TYPICALLY BEING 10 FT TO 12 FT. ALL EXTERIOR VEHICULAR CONCRETE PAVEMENT AND FLATWORK SHALL HAVE CONTROL JOINTS PER TABLE BELOW AND EXPANSION JOINTS PER ACI 330 TYPICAL

| IENDATIONO. | |
|------------------------|-----------------------|
| SLAB THICKNESS - " T " | MAXIMUM JOINT SPACING |
| LESS THAN 4 INCHES | 8 FEET |
| 4 - < 5 INCHES | 10 FEET |
| 5 - < 6 INCHES | 12.5 FEET |
| 6 INCHES - < 8 INCHES | 15 FEET |
| 8 INCHES - 10 INCHES | 15 FEET |

ALL JOINTS, INCLUDING SAWED JOINTS, SHALL BE SEALED. JOINTS SHALL BE CLEANED AND DRIED PRIOR TO SEALING. JOINT SEALING MATERIALS SHALL COMPLY WITH ASTM D 3406 FOR HOT APPLIED ELASTOMERIC, TT-S-001543A FOR SILICONE RUBBER, AND TT-S-00230S FOR SINGLE COMPONENT ELASTOMERIC. SEALER WIDTH, DEPTH, AND PREPARED APPLICATION SURFACES SHALL BE PER MANUFACTURES RECOMMENDATIONS. JOINT FILLER MATERIAL SHALL CONFORM TO ASTM D1751 OR ASTM D8139 AND EXTEND THE FULL DEPTH OF

ALL CONCRETE PANELS SHALL BE SQUARE WITH A LENGTH TO WIDTH RATIO NO GREATER THAN 1.25 TO 1 AND HAVE A MEDIUM BROOM FINISH (TRANSVERSE, SLIP RESISTANT FOR PEDESTRIAN PATHWAYS) WHICH SHALL BE TO MINIMUM STRENGTH PRIOR TO OPENING FOR VEHICULAR TRAFFIC AREAS. STAGGERED/OFFSET JOINT, INTERIOR CORNERS, ANGLES LESS THAN 60 DEGREES, SLABS LESS THAN 18-INCHES WIDE, AND ODD SHAPES SHALL NOT BE PERMITTED. BLOCKOUTS AROUND ALL PAVEMENT CASTINGS SHALL BE PROVIDED IN

ALL JOINTING (IF) SHOWN HEREIN IS ONLY A GENERAL GUIDELINE OF DESIGN INTENT. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FINAL LAYOUT OF THE JOINTING WHICH COINCIDES WITH THEIR MEANS AND METHODS TO ENSURE NO UNDESIRED CRACKS FORM THROUGH ANY PLACED CONCRETE. JOINTS SHALL BE APPROPRIATELY PLACED AS SOON AS POSSIBLE TO KEEP UNNECESSARY CRACKS FROM DEVELOPING. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF THEIR PAVEMENT JOINT LAYOUT TO OWNER / CONSTRUCTION MANAGER PRIOR TO PLACEMENT FOR RECORD. THE CONTRACTOR SHALL REPLACE ANY CRACKED CONCRETE, WHICH HAS NOT BEEN PLACED/FINISHED IN ACCORDANCE WITH ACI STANDARDS, TO THE NEXT JOINT PAST THE EFFECTED AREA AT NO ADDITIONAL COST TO

DESIGN INTENT CONCRETE AND SHALL CONFORM TO THE FOLLOWING MINIMUM AND

| (IMUM VALUES: | |
|-----------------------------------|---|
| STRENGTH | PER MIX DESIGN, MINIMUM 4000 PSI |
| PORTLAND CEMENT CONTENT | 550 LB / CY (ASTM C150 TYPE I/II) |
| POZZOLAN MATERIALS | SILICA FUME MAY REPLACE MAX. 7% CEMENT |
| SEE NOTES BELOW) | FLY ASH OR SLAG CEMENT MAY REPLACE |
| | MAX. 20% CEMENT |
| /IAX W/C RATIO | PER MIX DESIGN, MAXIMUM 0.45 |
| ENTRAINED AIR | 6.5% AVG ± 1.5% (7.0% TARGET) ASTM C260 |
| SLUMP | 4" MAX WITHOUT WATER REDUCER |
| SLUMP WITH HRWR OR MID RANGE WR | 6" TO 8" |
| WATER REDUCER | NORMAL TYPE A (ASTM C494) |
| RETARDER | NORMAL TYPE B OR D AS NEEDED (REQUIRED |
| | IF CONCRETE TEMPERATURE EXCEEDS 85F) |
| CONCRETE TEMPERATURE AT PLACEMENT | 50F-90F |
| ACCELERATOR | NON-CHLORIDE TYPE ONLY - CALCIUM |
| | CHLORIDE IS PROHIBITED |
| FIBERS TO BE USED | POLYPROPYLENE OR POLYETHYLENE |
| OR SHRINKAGE CRACK CONTROL | MICRO SYNTHETIC FIBERS @ 1.5 LBS / CY |
| (CURBS, WALKS, STEPS, RAMPS) | (FIBERMESH 300 OR APPROVED EQUAL) |
| FOR USE AS W.W.F. REPLACEMENT | MACRO SYNTHETIC FIBERS @ 4.0 LBS / CY |
| | (TUE-STRAND SE OR APPROVED FOLIAL) |

ALL SYNTHETIC FIBERS SHALL BE TYPE III PER ASTM C1116 AND ASTM D7508. MACRO FIBERS

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, ASTM A1064, ASTM A307, AND ASTM A775. WHEN USED, ALL W.W.F. SLAB REINFORCEMENT SHALL BE SUPPORTED ON CHAIRS AND BE FLAT SHEETS ONLY. ZINC REPAIR MATERIAL SHALL CONFORM TO ASTM

CONCRETE SHALL ARRIVE AT JOB SITE WITH APPROPRIATE W/C RATIO. NO WATER SHALL B ADDED TO CONCRETE ON SITE WHICH EXCEEDS THE MAXIMUM ALLOWED W/C RATIO AS INDICATED BY THE WRITTEN BATCH PLANT TICKET FROM THE SUPPLIER. SUPERPLASTICIZER AND/OR OTHER ADMIXTURES MAY BE UTILIZED TO ACHIEVE DESIRED WORKABILITY OR TO ACCOUNT FOR ADVERSE PLACEMENT CONDITIONS. ADMIXTURES SHALL BE UTILIZED ONLY IN ACCORDANCE WITH THE MANUFACTURES WRITTEN INSTRUCTIONS AND MEET THE

CONTRACTOR SHALL HAVE A MIN. 5 YEARS EXPERIENCE WITH SUCCESSFUL PLACEMENT OF CONCRETE UTILIZING POZZOLAN MATERIALS. MIX DESIGNS WHICH UTILIZED POZZOLAN MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL DOT SPECIFICATIONS AND ACI STANDARDS. FLY ASH SHALL MEET THE REQUIREMENTS OF ASTM C618, CLASS C OR CLASS F, EXCEPT THE LOSS ON IGNITION MUST NOT EXCEED 5%. SLAG CEMENT ACCORDING TO ASTM C989, GRADE 100 MINIMUM. SILICA FUME SHALL BE DRY DENSIFIED MEETING THE REQUIREMENTS OF ASTM C1240. USE OF MATERIALS SHALL BE IN ACCORDANCE WITH ACI

AGGREGATES SHALL BE LOW-SHRINKAGE / WELL GRADED PER ASTM C33 AND THE LOCAL NOT ALKALI-CARBONATE AGGREGATES OR SUSCEPTIBLE TO ALKALI-AGGREGATE REACTIVITY. SLAG AGGREGATES SHALL NOT BE PERMITTED IN ANY CONCRETE MIX.

LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL BE PER ASTM C1315 TYPE II CLASS A IN ACCORDANCE WITH ACI 308. LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL BE WHITE PIGMENTED AND TWO COATS APPLIED IN TWO PERPENDICULAR UNIFORM APPLICATIONS PER MANUFACTURES RECOMMENDATIONS WITHIN THE ALLOWABLE TIME PERIODS. APPLICATIONS SHALL BE PHOTOGRAPH DOCUMENTED FOR EVEN AND CONSISTENT COVERAGE SIMILAR TO THE APPEARANCE OF A BLANK WHITE SHEET OF COPY

13. CONCRETE SEALER SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. A WRITTEN STATEMENT FROM THE MANUFACTURE FOR THE SEALER AND CURING COMPOUND SHALL BE PROVIDED GUARANTEEING COMPATIBILITY.

. REFER TO ACI INDUSTRY STANDARDS FOR CONCRETE PLACEMENT AND INSTALLATION. CONTRACTOR SHALL INCLUDE PROVISIONS IN ACCORDANCE WITH ACI 305R AND 306R FOR HOT AND COLD WEATHER PLACEMENT WHEN PROJECT SCHEDULE TIMING FALLS WITHIN THE REQUIRED TEMPERATURE RANGES PER ACI AND THE LOCAL DOT.

GRADING PLAN NOTES

CONSIDERED TO BE A PART OF THIS PLAN SET. BEFORE STARTING GRADING OPERATIONS, SEE STORMWATER POLLUTION PREVENTION PLAN, NOTES AND DETAILS (SWPP), LANDSCAPE PLAN AND SOILS REPORT FOR TREATMENT OF EXISTING GRADE.

A SOILS REPORT HAS BEEN PREPARED BY PSI, DATED NOVEMBER 15, 2019 AND SHALL BE

- PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL SWPP MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT SILTATION FROM LEAVING THE SITE AT ALL TIMES.
- STRIP BUILDING AND PAVEMENT AREAS OF ALL ORGANIC TOPSOILS. STOCKPILE SUITABLE TOPSOILS FOR RESPREADING ONTO LANDSCAPE AREAS. ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. SEE GEOTECHNICAL REPORT FOR STRIPPING AND TOPSOIL REQUIREMENTS.
- OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. UNLESS OTHERWISE SPECIFIED IN THE PLANS, SPECIFICATIONS, OR SOILS REPORT THE SITE GRADING, EXCAVATION, AND EMBANKMENT SHALL BE IN ACCORDANCE WITH THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

AT A MINIMUM ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M. TEST D-698. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 2% BELOW OPTIMUM. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE SOILS REPORT AND RETAIN A QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE TO ENSURE COMPLIANCE WITH THE SOILS REPORT MAKE GEOTECHNICAL RECOMMENDATIONS BASED ON FIELD CONDITIONS. AND ENSURE THAT ALL SHORING AND DEWATERING MEANS AND METHODS WILL NOT COMPROMISE THE STABILITY OF EXISTING OR PROPOSED FOOTINGS/FOUNDATIONS. THE OWNER SHALL RECEIVE ALL COMPACTION REPORTS PREPARED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. NOTIFY PROJECT CONSTRUCTION MANAGER IF ANY UNSUITABLE SOILS ARE FOUND.

- FOLLOWING GRADING OF SUBSOIL TO SUBGRADE ELEVATIONS THE CONTRACTOR SHALL PLACE TOPSOIL TO A 6" DEPTH (UNLESS OTHERWISE SPECIFIED IN LANDSCAPING DETAILS) IN ALL DISTURBED AREAS WHICH ARE NOT TO BE PAVED. SMOOTHLY FINISH GRADE TO MEET SURROUNDING LAWN AREAS AND ENSURE POSITIVE DRAINAGE. STOCKPILED TOPSOIL SHALL BE SCREENED PRIOR TO RESPREADING. TOPSOIL SHALL BE FREE OF SUBSOIL, DEBRIS, BRUSH AND STONES LARGER THAN 1" IN ANY DIMENSION. ROCK HOUNDING IN PLACE WILL NOT BE PERMITTED. ALL EXCESS TOPSOIL SHALL BE LEGALLY DISPOSED OF OFF SITE.
- ELEVATIONS GIVEN ARE AT BOTTOM FACE OF CURB AND/OR FINISHED PAVEMENT GRADE UNLESS OTHERWISE SPECIFIED ON GRADING PLAN. ALL PAVEMENT SHALL BE LAID ON A STRAIGHT, EVEN, AND UNIFORM GRADE WITH A MINIMUM OF 1% SLOPE TOWARD THE COLLECTION POINTS UNLESS OTHERWISE SPECIFIED ON THE GRADING PLAN. DO NOT ALLOW NEGATIVE GRADES OR PONDING OF WATER
- 10. SLOPE BUILDING SIDEWALK AWAY FROM THE BUILDING AT A MAXIMUM OF 1.5% (UNLESS OTHERWISE INDICATED ON THE GRADING PLAN).
- . WHEN CONSTRUCTING ASPHALTIC CONCRETE PAVEMENTS, CONTRACTOR SHALL PROVIDE BUTT END JOINT TO MEET EXISTING PAVEMENT IN ELEVATION AT DRIVE RETURNS AND ENSURE POSITIVE DRAINAGE
- 12. CONTRACTOR SHALL COMPACT AND PROOFROLL EXISTING SUBGRADE PER RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
- GENERAL UTILITY NOTES
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IMMEDIATELY AFTER BID IS AWARDED AND ENSURE THE UTILITY COMPANIES HAVE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER OF ANY TIME FRAMES ESTABLISHED BY UTILITY COMPANIES WHICH WILL NOT MEET OPENING DATE.
- CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTIN UTILITIES WHICH ARE INTENDED TO BE UTILIZED AS A CONNECTION POINT FOR ALL PROPOSED UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR TO ENSURE EXISTING UTILITIES ARE IN GOOD CONDITION AND FREE FLOWING (IF APPLICABLE). IF ELEVATIONS, SIZE, OR LOCATION DIFFER FROM WHAT IS SHOWN ON PLANS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER IMMEDIATELY.
- WHERE PLANS PROVIDE FOR PROPOSED WORK TO BE CONNECTED TO, OR CROSS OVER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING THE PROPOSED WORK. IF IT I DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE RESULTS IN A CHANGE IN THE PLAN, THE CONSTRUCTION MANAGER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED WORK WHICH WOULD BE AFFECTE BY THE INTERFERENCE WITH AN EXISTING FACILITY. PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT ITEM.
- UTILITY SERVICE PROVIDERS RULES AND REQUIREMENTS TAKE PRECEDENCE OVER INFORMATION HEREIN. IF DISCREPANCY ARISES, CONTRACTOR SHALL FULLY COORDINATE WITH UTILITY SERVICE PROVIDER PRIOR TO START OF CONSTRUCTION.

STORM SEWER NOTES

- ALL STORM SEWER PIPE 12" OR GREATER IN DIAMETER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) SMOOTH INTERIOR PIPE (UNLESS OTHERWISE NOTED ON PLAN). HDPE PIPE SHALL CONFORM TO ASTM D 3350 AND JOINTS PER ASTM F477. STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE PVC, SDR 35, PER ASTM D 3034 AND JOINTS PER ASTM D 3212 (OR APPROVED EQUAL).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, BACKFILLING AND PIPE INSTALLATION, PIPE MATERIAL AND TAP CONNECTION.
- DOT SPECIFICATIONS WHICH ARE RESISTANT TO FREEZE / THAW, SULFATE ATTACK, AND ARE 3. ALL DRAINAGE STRUCTURES AT PAVEMENT SUMPS SHALL HAVE FINGER DRAINS PER DETAILS IN PLANS.
 - THE DEVELOPER IS RESPONSIBLE FOR RESOLVING ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH ARE A RESULT OF THE DEVELOPER'S ACTIVITIES.

SANITARY SEWER NOTES

- . SANITARY SEWER LATERAL INVERT AT BUILDING SHALL BE A MINIMUM OF 5' BELOW FINISH FLOOR.
- CLEAN-OUTS TO BE INSTALLED AT ALL PIPE BENDS AND ANGLES, UNLESS A MANHOLE IS INDICATED
- THE CONTRACTOR SHALL HIRE A LOCAL PLUMBER LICENSED WITH THE LOCAL SANITARY JURISDICTION TO MAKE ALL CONNECTIONS FROM THE BUILDING TO THE EXISTING SEWER. CONTRACTOR SHALL SECURE A SANITARY SEWER CONNECTION PERMIT PRIOR TO ANY CONSTRUCTION. THE CONTRACTORS PRICE FOR SANITARY SEWER INSTALLATION SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE LOCAL SANITARY JURISDICTION TO PROVIDE A COMPLETE WORKING SERVICE. COORDINATE ALL WORK WITH WILLIAM TURNER WITH CHARTER TOWNSHIP OF BROWNSTOWN @ 734.675.4000.

ALL SANITARY PIPE MATERIAL SHALL BE 6" PVC, SDR 35 CONFORMING TO ASTM D 3034, WITH JOINTS PER ASTM 3212 UNLESS OTHERWISE REQUIRED BY THE LOCAL JURISDICTION.

| | WATER NOTES 1. WATER SERVICE MATE |
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ERIALS SHALL BE COPPER TYPE "K" UNLESS OTHERWISE NOTED ON PLANS. DIAMETER SHALL BE AS NS AND SHALL BE INSTALLED WITH A MINIMUM COVER OF 60" OR BELOW FROST LINE, WHICHEVER IS

AL SHALL CONFORM WITH CITY REQUIREMENTS.

MATERIALS PROVIDED BY THE WATER COMPANY:

RK WITH WILLIAM TURNER WITH CHARTER TOWNSHIP OF BROWNSTOWN @ 734.675.4000.

MATERIALS PROVIDED BY THE CONTRACTOR: COPPER SERVICE LINE FROM METER TO BUILDING.

ACKFILLING. PVC WATER MAIN

FIRE HYDRANT

EQUIRED WITH THE CHARTER TOWNSHIP OF BROWNSTOWN.

WINGS FOR SITE LIGHTING AND LUMINAIRE DESCRIPTION.

ETS FOR ALL DEDICATED EXTERIOR BUILDING AND SIGN LIGHTING SCHEDULES. ELECTRICAL

COORDINATE ALL WORK WITH ELECTRICAL PLANS.

MATERIALS PROVIDED BY THE ELECTRIC COMPANY: . PRIMARY WIRING.

PAD MOUNTED TRANSFORMER.

RIMARY AND SECONDARY CONNECTIONS AT TRANSFORMER. . METER.

RK WITH JACQUELINE YOUNG AND BRENDA THURMAN-BRADFORD WITH DTE ENERGY @ 313.235.8314.

MATERIALS PROVIDED BY THE CONTRACTOR:

. PRIMARY WIRING DUCTS, INCLUDING ALL TRENCHING AND BACKFILL FROM TRANSFORMER TO

. PAD FOR TRANSFORMER. L 4" PVC SCHEDULE 40 DUCTS, INCLUDING ALL TRENCHING AND BACKFILLING FROM TRANSFORMER TO

. SECONDARY WIRE FROM THE BUILDING TO THE TRANSFORMER. METER BASE AND CT CABINET. QUIRED BY ELECTRIC COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.

MATERIALS PROVIDED BY THE TELEPHONE COMPANY: RK WITH BRIAN GRIFFIN WITH AT&T @ 316.240.5486. WIRING TO EXISTING SERVICE.

MATERIALS PROVIDED BY THE CONTRACTOR: DUCTS FROM THE BUILDING TO EXISTING SERVICE. BACKFILLING.

EQUIRED BY TELEPHONE COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.

COORDINATE THE NUMBER OF LINES REQUIRED WITH THE CONSTRUCTION/ PROJECT MANAGER

TES

MATERIALS PROVIDED BY THE GAS COMPANY: ECTION WORK DONE BY GAS COMPANY. 2SERVICE FROM TAP TO BUILDING.

BACKFILL**I**NG.

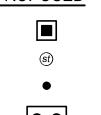
METER. RK WITH SAMANTHA COOK WITH DTE ENERGY @ 313.570.4133

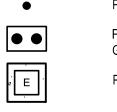
MATERIALS PROVIDED BY THE CONTRACTOR: . SERVICE FROM METER TO BUILDING AND THROUGHOUT THE BUILDING.

INCLUDE ALL FEES REQUIRED BY THE GAS COMPANY TO PROVIDE A COMPLETE WORKING SERVICE.

S CONDUIT PER CITY/VILLAGE, STATE OR NEC CODE, WHICHEVER IS MORE STRINGENT (FOR FUTURE SHEETS FOR DETAILS. TERMINATE CABLE CONDUIT AT RIGHT-OF-WAY. PROVIDE END CAP AND NOTE DRAWINGS.

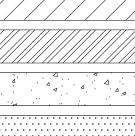
| <u>EXISTING</u> | | PROPOSED |
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| BE | EXISTING TRANSFORMER | • |
| | EXISTING CATCH BASIN | |
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| 60 | EXISTING SANITARY MANHOLE | E E |
| <u></u> | EXISTING FIRE HYDRANT | œ <u>₩</u> |
| - | EXISTING SIGN | |
| | EXISTING CONCRETE PAD/AREA | ↓ Ľ |
| —— P/L —— | EXISTING PROPERTY LINE | 11- |
| R/W | EXISTING RIGHT OF WAY LINE | |
| C/L | EXISTING CENTER LINE | |
| OH | EXISTING OVERHEAD UTILITY LINES | |
| GAS | EXISTING UNDERGROUND GAS LINES | |
| ST | EXISTING UNDERGROUND STORM LINES | · · · · · · · · · · · · · · · · · · · |
| SAN | EXISTING UNDERGROUND SANITARY LINES | |
| W | EXISTING UNDERGROUND WATER LINES | |
| —————————————————————————————————————— | EXISTING UNDERGROUND ELECTRIC LINES | |
| T | EXISTING UNDERGROUND TELEPHONE LINES | |
| ======== | EXISTING CURB | |
| 000 | EXISTING CONTOUR | |
| BM # | BENCHMARK LOCATION | |

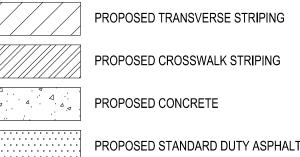












PROPOSED HEAVY DUTY ASPHALT





TOWNSHIP/MDOT COMMENTS Δ 01.20.22 ISSUED FOR BID 03.11.22 ISSUED FOR CONSTRUCTION CONTRACT DATE: ENDEAVOR 2.0

CITY AND COUNTY COMMENTS

BUILDING TYPE: PLAN VERSION: BRAND DESIGNER: SITE NUMBER STORE NUMBER:

01/01/19 MARCH 2022 DAN DICKSON 315089 40164

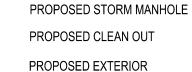
TACO BELL

18708 TELEGRAPH RD BROWNSTOWN, MI 48183









GREASE INTERCEPTOR PROPOSED ELECTRIC TRANSFORMER

PROPOSED TRAFFIC SIGN

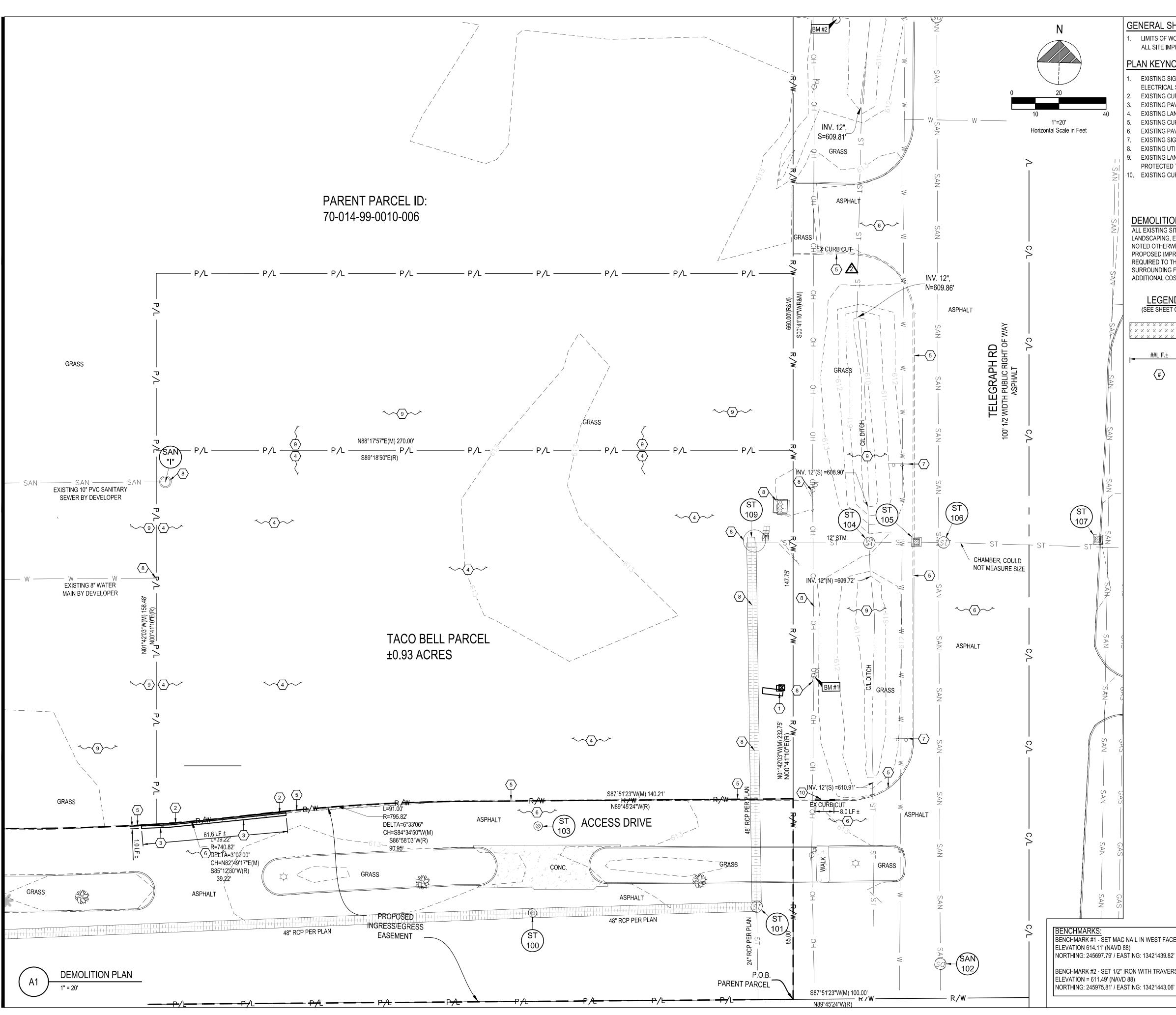
PROPOSED DIRECTIONAL

PAVEMENT MARKINGS

PROPOSED CATCH BASIN

PROPOSED PAINTED ADA SYMBOL

PROPOSED LIGHT POLE



GENERAL SHEET NOTES

LIMITS OF WORK SHALL BE LIMITED TO WITHIN THE PROPERTY LINES AND INCLUSIVE OF ALL SITE IMPROVEMENTS OUTSIDE OR PROPERTY LINES DEPICTED IN THIS PLAN SET.

PLAN KEYNOTES (#)

- EXISTING SIGN AND ASSOCIATED TO BE REMOVED. DISCONNECT, CUT AND CAP
- ELECTRICAL SERVICE.
- EXISTING CURB TO BE SAWCUT AND REMOVED. PER DETAIL, 1" CURB DROP. EXISTING PAVEMENT TO BE REMOVED AND REPAIRED UPON DRIVE APRON INSTALLATION.
- EXISTING LANDSCAPING (INCLUDING BUSHES, TREES, ETC.) TO BE REMOVED.
- EXISTING CURB TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING PAVEMENT TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING SIGNAGE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. EXISTING UTILITIES TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- EXISTING LANDSCAPING (INCLUDING BUSHES, TREES, ETC.) TO REMAIN AND BE
- PROTECTED THROUGHOUT CONSTRUCTION.

10. EXISTING CURB CUT TO BE MODIFIED FOR PROPOSED IMPROVEMENTS.

DEMOLITION NOTE:

ALL EXISTING SITE AND SURROUNDING FEATURES SUCH AS UTILITIES, PAVEMENT, CURB, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION UNLESS NOTED OTHERWISE, OR ARE REQUIRED TO BE MODIFIED OR REMOVED FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.

LEGEND

(SEE SHEET C-001 FOR GENERAL LEGEND)

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EXISTING ASPHALT TO BE REMOVED

DENOTES LIMITS OF SAWCUT



DEMOLITION KEYNOTE

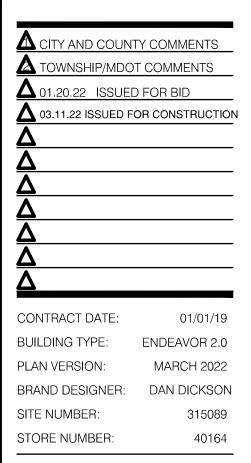
| E | EXISTING STRUCTURES | | | | |
|------------|---|--|--|--|--|
| STRCT. ID | STRUCTURE DETAILS | | | | |
| ST 100 | EXISTING CATCH BASIN RIM=612.46 NO VISIBLE PIPES T/SEDIMENT=600.01 | | | | |
| ST 101 | EXISTING STORM MANHOLE RIM=613.07 NO VISIBLE PIPES T/SEDIMENT=600.17 | | | | |
| SAN 102 | EXISTING SANITARY MANHOLE RIM=612.96 INV. 12", N=594.85 INV. 12", S=594.81 | | | | |
| ST 103 | EXISTING CATCH BASIN RIM=612.55 NO VISIBLE PIPES T/SEDIMENT=606.26 | | | | |
| ST 104 | EXISTING STORM MANHOLE RIM=613.73 INV. 12", S=610.73 INV. 12", N= (COULDN'T MEASURE) INV. 12", E, W=610.73 | | | | |
| ST 105 | EXISTING CATCH BASIN RIM=612.12 B/STRUCTURE=608.11 | | | | |
| ST 106 | EXISTING STORM MANHOLE RIM=612.64 B/STRUCTURE=609.01 | | | | |
| ST 107 | EXISTING CATCH BASIN RIM=612.59 INV=UNKNOWN | | | | |
| ST 109 | EXISTING STORM LIFT STATION RIM=613.71' (EXISTING INVERTS SHOWN ARE PER TEL-SIBLEY PLAZA RECORD INFORMATION) INV. 15" RCP, E=610.65 INV. 6" EFFLUENT, E=609.15 INV. 48" RCP, S=599.85 SUMP=598.20 | | | | |
| SAN "I" | EXISTING SANITARY MANHOLE "I" PER DEVELOPER PLANS RIM=612.35' INV. 10", W=605.28 | | | | |

BENCHMARK #1 - SET MAC NAIL IN WEST FACE OF UTILITY POL BENCHMARK #2 - SET 1/2" IRON WITH TRAVERSE CAP.









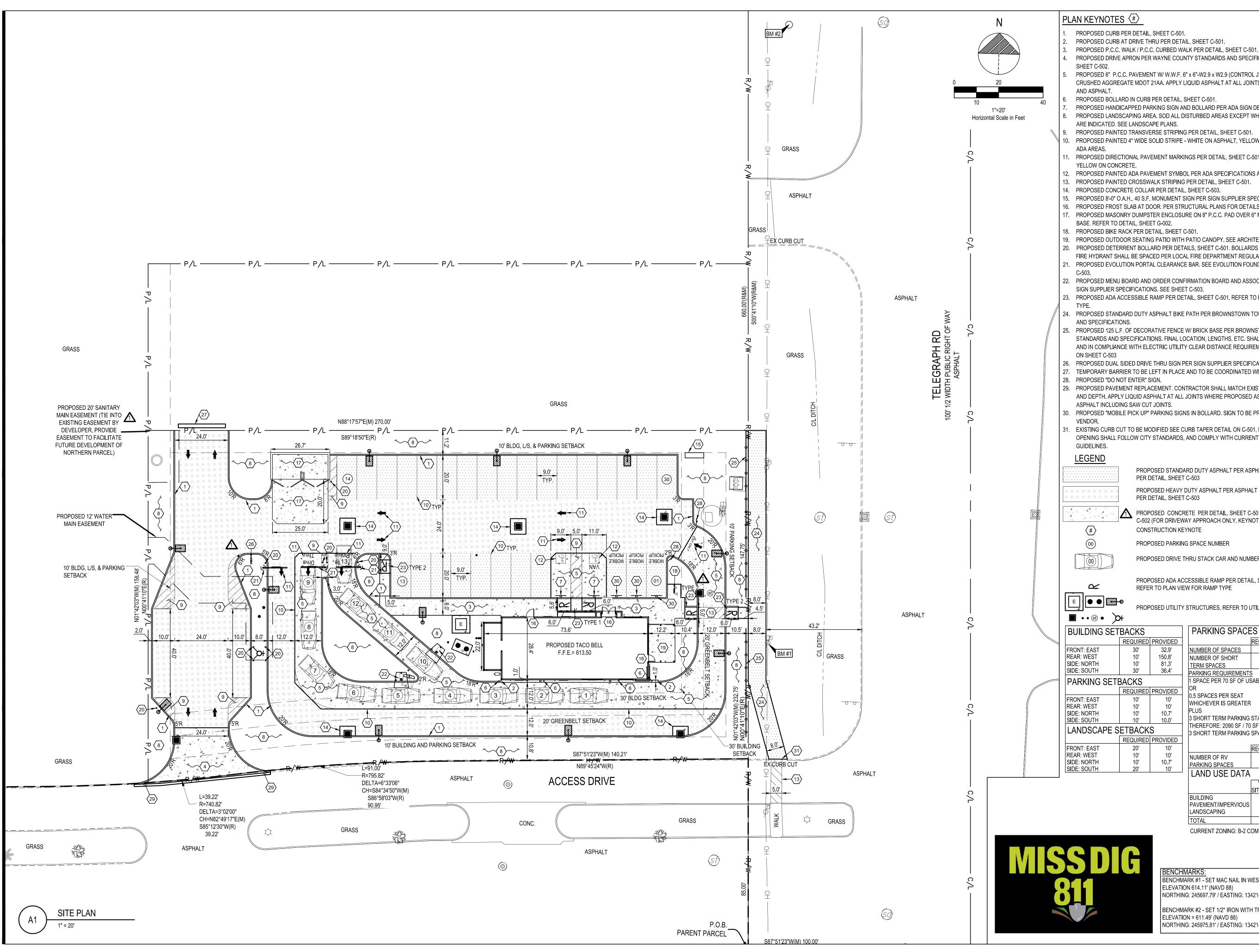
TACO BELL

18708 TELEGRAPH RD BROWNSTOWN, MI 48183



DEMOLITION PLAN





- PROPOSED CURB PER DETAIL, SHEET C-501.
- PROPOSED CURB AT DRIVE THRU PER DETAIL, SHEET C-501.
- PROPOSED DRIVE APRON PER WAYNE COUNTY STANDARDS AND SPECIFICATIONS. SEE DETAILS,
- PROPOSED 6" P.C.C. PAVEMENT W/ W.W.F. 6" x 6"-W2.9 x W2.9 (CONTROL JTS. 12'-0" O.C.) OVER 6" CRUSHED AGGREGATE MDOT 21AA. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE
- PROPOSED BOLLARD IN CURB PER DETAIL, SHEET C-501
- PROPOSED HANDICAPPED PARKING SIGN AND BOLLARD PER ADA SIGN DETAIL, SHEET C-501. PROPOSED LANDSCAPING AREA. SOD ALL DISTURBED AREAS EXCEPT WHERE PLANTING BEDS ARE INDICATED. SEE LANDSCAPE PLANS.
- 9. PROPOSED PAINTED TRANSVERSE STRIPING PER DETAIL, SHEET C-501.
- PROPOSED PAINTED 4" WIDE SOLID STRIPE WHITE ON ASPHALT, YELLOW ON CONCRETE, BLUE IN
- 1. PROPOSED DIRECTIONAL PAVEMENT MARKINGS PER DETAIL, SHEET C-501. WHITE ON ASPHALT,
- PROPOSED PAINTED ADA PAVEMENT SYMBOL PER ADA SPECIFICATIONS AND DETAIL, SHEET C-501 13. PROPOSED PAINTED CROSSWALK STRIPING PER DETAIL, SHEET C-501.
- 14. PROPOSED CONCRETE COLLAR PER DETAIL, SHEET C-503.
- 15. PROPOSED 8'-0" O.A.H., 40 S.F. MONUMENT SIGN PER SIGN SUPPLIER SPECIFICATIONS.
- 16. PROPOSED FROST SLAB AT DOOR. PER STRUCTURAL PLANS FOR DETAILS DRAWINGS. 17. PROPOSED MASONRY DUMPSTER ENCLOSURE ON 8" P.C.C. PAD OVER 6" MDOT 21AA AGGREGATE BASE. REFER TO DETAIL, SHEET G-002.
- 18. PROPOSED BIKE RACK PER DETAIL, SHEET C-501.
- 19. PROPOSED OUTDOOR SEATING PATIO WITH PATIO CANOPY. SEE ARCHITECTURAL PLANS.
- 20. PROPOSED DETERRENT BOLLARD PER DETAILS, SHEET C-501. BOLLARDS INTENDED TO PROTECT FIRE HYDRANT SHALL BE SPACED PER LOCAL FIRE DEPARTMENT REGULATIONS.
- 21. PROPOSED EVOLUTION PORTAL CLEARANCE BAR. SEE EVOLUTION FOUNDATION DETAIL, SHEET
- 22. PROPOSED MENU BOARD AND ORDER CONFIRMATION BOARD AND ASSOCIATED FOOTINGS PER SIGN SUPPLIER SPECIFICATIONS. SEE SHEET C-503.
- 23. PROPOSED ADA ACCESSIBLE RAMP PER DETAIL, SHEET C-501. REFER TO PLAN VIEW FOR RAMP
- 24. PROPOSED STANDARD DUTY ASPHALT BIKE PATH PER BROWNSTOWN TOWNSHIP STANDARDS
- 25. PROPOSED 125 L.F. OF DECORATIVE FENCE W/ BRICK BASE PER BROWNSTOWN TOWNSHIP STANDARDS AND SPECIFICATIONS. FINAL LOCATION, LENGTHS, ETC. SHALL BE PER CITY OFFICIAL AND IN COMPLIANCE WITH ELECTRIC UTILITY CLEAR DISTANCE REQUIREMENTS. REFER TO DETAIL
- 26. PROPOSED DUAL SIDED DRIVE THRU SIGN PER SIGN SUPPLIER SPECIFICATIONS.
- 27. TEMPORARY BARRIER TO BE LEFT IN PLACE AND TO BE COORDINATED WITH ADJACENT OWNER. 28. PROPOSED "DO NOT ENTER" SIGN.
- 29. PROPOSED PAVEMENT REPLACEMENT. CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN TYPE AND DEPTH. APPLY LIQUID ASPHALT AT ALL JOINTS WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT INCLUDING SAW CUT JOINTS.
- 30. PROPOSED "MOBILE PICK UP" PARKING SIGNS IN BOLLARD. SIGN TO BE PROVIDED BY SIGN
- 1. EXISTING CURB CUT TO BE MODIFIED SEE CURB TAPER DETAIL ON C-501, PROPOSED CURB OPENING SHALL FOLLOW CITY STANDARDS, AND COMPLY WITH CURRENT ACCESSIBILITY

PROPOSED STANDARD DUTY ASPHALT PER ASPHALT PER DETAIL, SHEET C-503

PROPOSED HEAVY DUTY ASPHALT PER ASPHALT PAVEMENT PER DETAIL, SHEET C-503

PROPOSED CONCRETE PER DETAIL, SHEET C-501 AND SHEET C-502 (FOR DRIVEWAY APPROACH ONLY, KEYNOTE #4) CONSTRUCTION KEYNOTE

PROPOSED PARKING SPACE NUMBER

PROPOSED DRIVE THRU STACK CAR AND NUMBER

PROPOSED ADA ACCESSIBLE RAMP PER DETAIL, SHEET C-501 REFER TO PLAN VIEW FOR RAMP TYPE

PROPOSED UTILITY STRUCTURES, REFER TO UTILITY PLANS

| BUILDING SETBACKS | | | | |
|--------------------|----------|----------|--|--|
| | REQUIRED | PROVIDED | | |
| FRONT: EAST | 30' | 32.9' | | |
| REAR: WEST | 10' | 150.8' | | |
| SIDE: NORTH | 10' | 81.3' | | |
| SIDE: SOUTH | 30' | 36.4' | | |
| PARKING SET | BACKS | | | |
| | REQUIRED | PROVIDED | | |
| FRONT: EAST | 10' | 10' | | |
| REAR: WEST | 10' | 10' | | |
| SIDE: NORTH | 10' | 10.7' | | |
| SIDE: SOUTH | 10' | 10.0' | | |
| LANDSCAPE SETBACKS | | | | |
| | REQUIRED | PROVIDED | | |
| FRONT: EAST | 20' | 10' | | |
| REAR: WEST | 10' | 10' | | |
| SIDE: NORTH | 10' | 10.7' | | |
| SIDE: SOUTH | 20' | 10' | | |

| PARKING SPACES | | | | |
|--|------------|----------|--|--|
| | REQUIRED | PROVIDED | | |
| NUMBER OF SPACES | 30 | 30 | | |
| NUMBER OF SHORT | | | | |
| TERM SPACES | 3 | 3 | | |
| PARKING REQUIREMENTS | <u>S</u> | | | |
| 1 SPACE PER 70 SF OF US | SABLE FLOC | OR AREA | | |
| OR | | | | |
| 0.5 SPACES PER SEAT | | | | |
| WHICHEVER IS GREATER | | | | |
| PLUS | | | | |
| 3 SHORT TERM PARKING | | | | |
| THEREFORE: 2090 SF / 70 SF = 30 SPACES AND | | | | |
| 3 SHORT TERM PARKING | SPACES RE | QUIRED. | | |
| | | | | |
| | REQUIRED | PROVIDED | | |
| NUMBER OF RV | 2 | 2 | | |
| PARKING SPACES | | | | |
| LAND USE DATA | | | | |
| | % OF | AREA | | |

| | % OF | AREA | | | |
|---------------------|-----------|----------|--|--|--|
| | SITE AREA | PROVIDED | | | |
| BUILDING | 5.2% | 0.05 AC. | | | |
| PAVEMENT/IMPERVIOUS | 71.5% | 0.67 AC. | | | |
| LANDSCAPING | 28.5% | 0.26 AC. | | | |
| TOTAL | 100% | 0.93 AC. | | | |

CURRENT ZONING: B-2 COMMUNITY BUSINESS

BENCHMARKS:

BENCHMARK #1 - SET MAC NAIL IN WEST FACE OF UTILITY POLE ELEVATION 614.11' (NAVD 88) NORTHING: 245697.79' / EASTING: 13421439.82'

BENCHMARK #2 - SET 1/2" IRON WITH TRAVERSE CAP. ELEVATION = 611.49' (NAVD 88) NORTHING: 245975.81' / EASTING: 13421443.06'





| A CITY AND COUN | TY COMMENTS | | | | |
|---------------------------------|-----------------|--|--|--|--|
| A TOWNSHIP/MDOT COMMENTS | | | | | |
| Δ 01.20.22 ISSUEI | D FOR BID | | | | |
| A 03.11.22 ISSUED F | OR CONSTRUCTION | | | | |
| Δ | | | | | |
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| Δ | | | | | |
| Δ | | | | | |
| CONTRACT DATE: | 01/01/19 | | | | |
| BUILDING TYPE: | ENDEAVOR 2.0 | | | | |
| PLAN VERSION: | MARCH 2022 | | | | |
| BRAND DESIGNER: | DAN DICKSON | | | | |
| SITE NUMBER: | 315089 | | | | |
| STORE NUMBER: | 40164 | | | | |
| | | | | | |

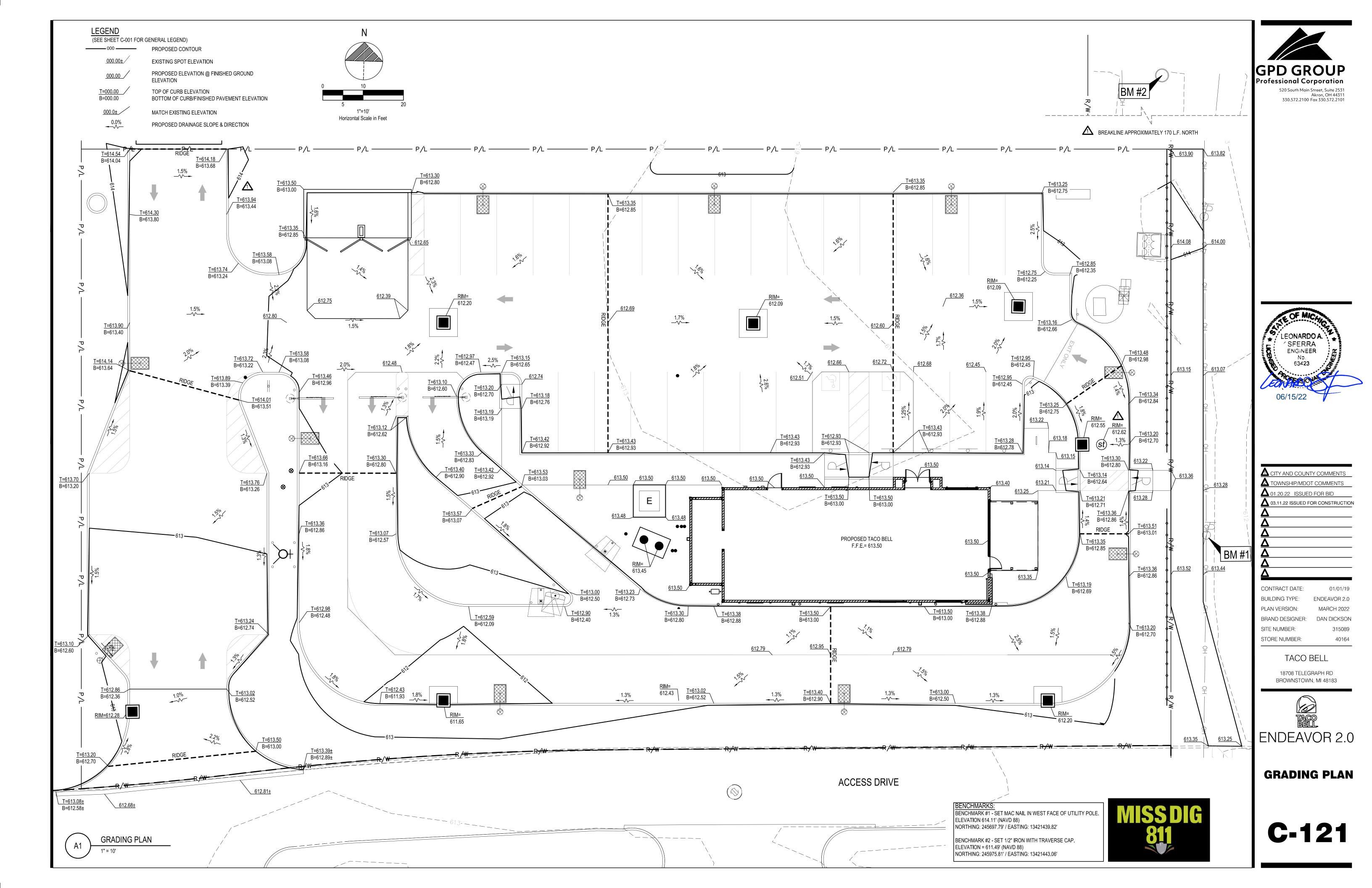
TACO BELL

18708 TELEGRAPH RD BROWNSTOWN, MI 48183









GENERAL NOTES

- ALL WORK SPECIFIED AS A DEPARTMENT OF TRANSPORTATION ITEM SHALL BE GOVERNED BY THE CURRENT STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AS WELL AS THE CURRENT EDITION OF THE LOCAL JURISDICTION STORM WATER MANAGEMENT MANUAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POSSESS AND TO BE FAMILIAR WITH APPLICABLE SECTIONS.
- THESE CONTRACT DRAWINGS SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES SHALL BE IMPLEMENTED TO MANAGE THE CURRENT SITE CONDITIONS WHICH MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL AND WATER CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS AND CHANGE IN SITE CONDITIONS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- ALL STORM WATER POLLUTION PREVENTION PRACTICES SHALL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.
- SEDIMENT BARRIERS SHALL BE INSTALLED DOWNSLOPE OF DISTURBED AREAS. SEDIMENT BARRIERS SHALL BE INSTALLED ALONG LEVEL CONTOURS. MAXIMUM CONTRIBUTING DRAINAGE AREA TO SEDIMENT BARRIERS SHALL BE PER THE CURRENT STATE'S EPA OR THE LOCAL AUTHORITY REQUIREMENTS. COMPOSITE FILTER SOCKS USED IN LIEU OF SILT FENCE SHALL BE A MINIMUM OF 12 INCHES IN DIAMETER.
- SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING AND NEW STORM INLETS, CATCH BASINS AND YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.
- STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED AROUND ALL DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS MAY BE SHOWN ON THESE PLANS AND/OR AS DIRECTED BY THE ENGINEER OR THE LOCAL AUTHORITY HAVING JURISDICTION.
- SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT PERIMETER CONTROLS SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. ONCE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.
- ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION.
- CONSTRUCTION ENTRANCE SHALL BE UTILIZED. IF CONDITIONS ARE SUCH THAT MUD IS COLLECTING ON VEHICLE TIRES, THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD ONTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.
-). IF FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL BARE SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.
- . CONCRETE WASHOUT FACILITY (IF APPLICABLE) SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLAN DETAILS AND LOCAL GOVERNING AUTHORITY REGULATIONS AND INSTRUCTIONS.
- 2. IMPLEMENTATION OF EROSION AND SEDIMENT CONTROLS SHALL CONFORM TO STATE OF MICHIGAN CONSTRUCTION GENERAL PERMIT AND BROWNSTOWN TOWNSHIP CODIFIED ORDINANCES. IF A CONFLICT EXISTS BETWEEN THE TWO REGARDING EROSION AND SEDIMENT CONTROL IMPLEMENTATION. THE MORE RESTRICTIVE SHALL APPLY.

NSPECTION NOTES

- CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND LOGGED BY THE CONTRACTOR FOR INSPECTION. LOGGING SHALL BE WEEKLY AND AFTER EVERY 1/2" RAINFALL EVENT. REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL SWPP.
- CONTRACTORS INSPECTOR SHALL BE A QUALIFIED INDIVIDUAL. ONLY A QUALIFIED INSPECTION PERSONNEL IS TO PERFORM THE INSPECTIONS. SITE INSPECTIONS SHALL BE DONE WEEKLY AND WITHIN 24 HRS AFTER EVERY RAINFALL EVENT EXCEEDING 1/2" OF RAINFALL. ALL NECESSARY REPAIRS SHOULD BE IMPLEMENTED IMMEDIATELY AFTER SUCH INSPECTIONS.
- CONTRACTOR'S INSPECTOR SHALL BE RESPONSIBLE FOR PREPARING AND SIGNING WEEKLY AND ALL INTERMEDIATE EROSION CONTROL INSPECTION REPORTS AFTER EVERY INSPECTION, WHICH INCLUDE BUT NOT LIMITED TO (DISTURBED AREAS, MATERIAL STORAGE AREAS, EROSION AND SEDIMENT CONTROLS; DISCHARGE LOCATIONS AND VEHICLE ENTRANCE/EXIT LOCATIONS), SUCH REPORTS SHALL BE MADE AVAILABLE TO OWNER, ENGINEER AND CITY / STATE OFFICIALS UPON THEIR REQUEST.
- REPORTS SHALL BE KEPT FOR 3 YEARS AFTER TERMINATION OF THE CONSTRUCTION ACTIVITIES.
- CONTRACTOR MAY SUBMIT A WAIVER REQUEST TO THE LOCAL AND STATE GOVERNING AUTHORITIES FOR A REDUCTION TO MONTHLY INSPECTIONS IF THE SITE WILL BE STABILIZED AND DORMANT FOR A LONG PERIOD, AND/OR THE RUNOFF IS UNLIKELY DUE TO WEATHER CONDITIONS FOR AN EXTENDED PERIOD OF TIME (FROZEN GROUND).
- FOR BMPS THAT REQUIRE REPAIR OR MAINTENANCE NON SEDIMENT POND BMPS ARE TO BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS ARE TO BE REPAIRED OR CLEANED OUT WITHIN 10 DAYS OF INSPECTION.
- FOR BMPS THAT DO NOT MEET THE INTENDED FUNCTION, A NEW BMP SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.
- FOR MISSING BMPS REQUIRED, THE MISSING BMPS SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

SPILLS AND CONTAMINATION

- 1. CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES REGARDING DISPOSAL AND HANDLING OF HAZARDOUS AND CONSTRUCTION WASTES:
- a. PREVENT SPILLS USE PRODUCTS UP а.
- FOLLOW LABEL DIRECTIONS FOR DISPOSAL
- REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH C.
- RECYCLE WASTES WHENEVER POSSIBLE DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND
- DON'T POUR DOWN THE SINK, DOOR DRAIN OR SEPTIC TANKS
- DON'T BURY CHEMICALS OR CONTAINERS
- DON'T BURN CHEMICALS OR CONTAINERS
- DON'T MIX CHEMICALS TOGETHER
- 2. ANY DISCHARGE OF PETROLEUM OR PETROLEUM PRODUCTS OF LESS THAN 25 GALLONS ONTO A PERVIOUS SURFACE SHALL BE LEGALLY REMOVED AND PROPERLY TREATED OR PROPERLY DISPOSED OF, OR OTHERWISE REMEDIATED, SO THAT NO CONTAMINATION FROM THE DISCHARGE REMAINS ON-SITE. SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO THE CURRENT STATE'S EPA, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE DISCOVERY OF THE RELEASE. ALL SPILLS WHICH CONTACT WATERS OF THE STATE MUST BE REPORTED TO THE CURRENT STATE'S EPA.
- 3. SPILL REPORTING REQUIREMENTS: SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LAND FILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING, SPILLS SHALL BE REPORTED TO THE CURRENT STATE'S EPA.
- 4. CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF AT THE CURRENT STATE'S EPA APPROVED CD&D LAND FILL
- 5. PROCESS WASTE WATER/LEACHATE MANAGEMENT : EPA'S CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER AND DOES NOT INCLUDE OTHER WASTE STREAMS/DISCHARGES SUCH AS VEHICLE AND/OR EQUIPMENT WASHING, ON-SITE SEPTIC LEACHATE CONCRETE WASH OUTS, WHICH ARE CONSIDERED PROCESS WASTEWATERS. ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT, LEACHATE OR SEPTAGE IS DISCHARGED; IT MUST BE ISOLATED FOR COLLECTION AND PROPER DISPOSAL AND CORRECTIVE ACTIONS TAKEN TO ELIMINATE THE SOURCE OF WASTE WATER.
- 6. WASTES GENERATED BY CONSTRUCTION ACTIVITIES (I.E. CONSTRUCTION MATERIALS SUCH AS PAINTS, SOLVENTS, FUELS, CONCRETE, WOOD, ETC) MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS. HAZARDOUS AND TOXIC SUBSTANCES ARE USED ON VIRTUALLY ALL CONSTRUCTION SITES. GOOD MANAGEMENT OF THESE SUBSTANCES IS ALWAYS NEEDED.
- 7. NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED OR BURNED ON-SITE.
- 8. HANDLING CONSTRUCTION CHEMICALS: MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
- 9. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVE GROUND TANK OF 660 GALLONS OR MORE. ACCUMULATIVE ABOVE GROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. CONTAMINATED SOILS MUST BE PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL GOVERNING AUTHORITY REGULATIONS. SPCC PLAN AND APPROVALS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. CONTAMINATED SOILS: IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LAND FILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION / DEMOLITION DEBRIS LAND FILL). NOTE THOSE STORM WATER RUNOFFS ASSOCIATED WITH CONTAMINATED SOILS ARE NOT BE AUTHORIZED UNDER CURRENT REGULATIONS OF CONSTRUCTION ACTIVITIES.
- 11. CONTRACTOR SHALL TAKE PREVENTIVE MEASURES FOR WATER DISCHARGES FROM CONTAMINATED SOILS BY ANY MEANS POSSIBLE, INCLUDING THE FOLLOWING: 11.1. THE USE OF BERMS, TRENCHES, AND PITS TO COLLECT CONTAMINATED RUNOFF AND
- PREVENT DISCHARGES. 11.2. PUMPING RUNOFF INTO A SANITARY SEWER (WITH PRIOR WRITTEN APPROVAL OF THE SANITARY SEWER SERVICE OPERATOR) OR INTO A CONTAINER FOR TRANSPORT TO AN APPROPRIATE TREATMENT/DISPOSAL FACILITY.
- 11.3. COVERING AREAS OF CONTAMINATION WITH TARPS OR OTHER METHODS THAT PREVENT STORMWATER FROM COMING INTO CONTACT WITH CONTAMINATED MATERIALS.

DEWATERING

DEWATERING REFERS TO THE ACT OF REMOVING AND DISCHARGING WATER FROM EXCAVATED AREAS ON CONSTRUCTION SITES, UTILITY LINE CONSTRUCTION OR FROM SEDIMENT TRAPS OR BASINS ON CONSTRUCTION SITES. GIVEN THE UNIQUE CONDITIONS AT ANY PARTICULAR CONSTRUCTION SITE, ANY OR ALL OF THE PRACTICES MAY APPLY. IN ALL CASES, EVERY EFFORT SHALL BE MADE TO ELIMINATE SEDIMENT POLLUTION ASSOCIATED WITH DEWATERING.

PRACTICES FOR DEWATERING EXCAVATED AREAS

- 1. PUMPING OF WATER TO AN EXISTING SEDIMENT BASIN OR TRAP IN WHICH THE ENTIRE VOLUME OF WATER FROM THE AREA TO BE DEWATERED CAN BE CONTAINED WITHOUT DISCHARGE TO RECEIVING WATERS.
- 2. PUMPING OF WATER TO AN EXISTING SEDIMENT BASIN OR TRAP SUCH THAT THE ENTIRE VOLUME OF WATER FROM THE AREA TO BE DEWATERED CAN BE MANAGED WITHOUT EXCEEDING THE DESIGN OUTFLOW FROM THE SEDIMENT CONTROL STRUCTURE.
- 3. USE OF A STRAW BALE/SILT FENCE PIT OR TRAP AS DESCRIBED HEREIN AND APPROVED BY THE LOCAL GOVERNING AUTHORITY
- 4. PUMPING WATER THROUGH A GEOTEXTILE BAG MADE SPECIFICALLY FOR THIS PURPOSE 5. A WELL-VEGETATIVE FILTER STRIP, CAPABLE OF WITHSTANDING THE VELOCITY OF DISCHARGED WATER WITHOUT ERODING, INCLUDING THE INSTALLATION OF ENERGY DISSIPATION (HAYBALES, RIPRAP OR SHEET OF PLYWOOD) AT THE PUMP DISCHARGE.

6. USE A SUMP PIT TO REDUCE THE PUMPING OF MUD.

DEWATERING OF SEDIMENT TRAPS AND BASINS. IN ALL CASES, WATER REMOVED FROM TRAPS AND BASINS SHALL BE DISCHARGED SO THAT IT PASSES THROUGH A SEDIMENT CONTROL DEVICE APPROVED BY THE LOCAL GOVERNING AUTHORITY PRIOR TO ENTERING RECEIVING WATERS. PRACTICES FOR DEWATERING OF TRAPS AND BASINS MAY INCLUDE SOME OR ALL OF THE FOLLOWING AS MAY BE APPROVED AND APPLICABLE. IN ALL CASES, THE DEWAERING OPERATIONS UTILIZED MUST BE CONTINUOUSLY MONITORED BY THE CONTRACTOR.

1. USE OF A STRAW BALE/SILT FENCE PIT OR TRAP.

- 1.1. AN EXCAVATED BASIN (APPLICABLE TO "STRAW BALE/SILT FENCE PIT") MAY BE LINED WITH FILTER FABRIC TO HELP REDUCE SCOUR AND TO PREVENT EROSION OF SOIL FROM WITHIN THE STRUCTURE. IT MAY ALSO BE HELPFUL TO DIRECT THE DISCHARGE ONTO A HAY OR STRAW BALE OR RIPRAP
- 1.2. MEASURES SHALL CONSIST OF STRAW BALES, SILT FENCE AND A STONE OUTLET CONSISTING OF A COMBINATION OF 4-8 INCH RIPRAP AND ½ TO 2 INCH AGGREGATE AND A WET STORAGE PIT ORIENTED AS SHOWN IN DRAWING.
- 1.3. THE EXCAVATED AREA SHOULD BE A MINIMUM OF 3 FEET BELOW THE BASE OF THE PERIMETER MEASURES (STRAW BALES OR SILT FENCE).
- 1.4. ONCE THE WATER LEVEL NEARS THE CREST OF THE STONE WEIR (EMERGENCY OVERFLOW), THE PUMP MUST BE STOPPED WHILE THE STRUCTURE DRAINS DOWN TO THE ELEVATION OF THE WET STORAGE
- 1.5. THE WET STORAGE PIT MAY BE DEWATERED ONLY AFTER A MINIMUM OF 6 HOURS OF SEDIMENT SETTLING TIME. THIS EFFLUENT SHOULD BE PUMPED ACROSS A WELL-VEGETATED AREA OR THROUGH A SILT FENCE PRIOR TO ENTERING A WATERCOURSE.
- 1.6. ONCE THE DEVICE HAS BEEN REMOVED, GROUND CONTOURS SHALL BE RETURNED TO ORIGINAL CONDITION.
- 2. PUMPING WATER THROUGH A GEOTEXTILE BAG MADE SPECIFICALLY FOR THIS PURPOSE 2.1. THE BAG SHALL BE INSTALLED ON A VERY SLIGHT SLOPE SO INCOMING WATER FLOWS DOWNHILL
- THROUGH THE BAG WITHOUT CREATING MORE EROSION. 2.2. THE INLET OPENING OF THE DEWATERING DEVICE SHALL HAVE A FILL SPOUT LARGE ENOUGH TO ACCOMMODATE THE DISCHARGE HOSE AND SHALL USE TWO STAINLESS STEEL STRAPS TO
- SECURE THE HOSE AND PREVENT PUMPED WATER FROM ESCAPING WITHOUT BEING FILTERED. 2.3. THE BAG SHOULD BE PLACED ON AN AGGREGATE OR HAY BALE BED TO MAXIMIZE WATER FLOW THROUGH THE ENTIRE SURFACE AREA OF THE BAG.
- 2.4. THE FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR PASS WATER AT A REASONABLE RATE.
- 2.5. FLOW RATES VARY DEPENDING ON THE SIZE OF THE DEWATERING DEVICE, AMOUNT OF SEDIMENT DISCHARGED INTO THE DEWATERING DEVICE, THE TYPE OF GROUND, ROCK, OR OTHER SUBSTANCE UNDER THE BAG AND THE DEGREE OF THE SLOPE ON WHICH THE BAG LIES. THE FILTER BAG SHOULD BE SIZED TO ACCOMMODATE THE ANTICIPATED FLOW RATES FROM THE TYPE OF PUMP USED. IN ALL CASES FOLLOW THE MANUFACTURERS RECOMMENDATIONS FOR PUMPING FLOW RATES.
- 2.6. THE FILTER BAG CAN BE LEFT IN PLACE AFTER CUTTING THE TOP OFF AND SEEDING AND MULCHING THE ACCUMULATED SEDIMENT OR REMOVED AND DISPOSED OF OFFSITE IN AN APPROVED LANDFILL
- 3. A WELL-VEGETATIVE FILTER STRIP, CAPABLE OF WITHSTANDING THE VELOCITY OF DISCHARGED WATER WITHOUT ERODING, INCLUDING THE INSTALLATION OF ENERGY DISSIPATION (HAYBALES RIPRAP OR SHEET OF PLYWOOD) AT THE PUMP DISCHARGE. SUCH OTHER METHODS AS MAY BE APPROVED BY THE LOCAL GOVERNING AUTHORITY.
- 4. REGARDLESS OF THE TYPE OF TREATMENT, ALWAYS USE A FLOATING SUCTION HOSE TO PUMP THE CLEANER WATER FROM THE TOP OF THE POND. AS THE CLEANER WATER IS PUMPED, THE SUCTION HOSE WILL LOWER AND EVENTUALLY ENCOUNTER SEDIMENT-LADEN WATER. AT THIS POINT CEASE PUMPING OPERATIONS AND REMOVE THE REMAINDER OF THE TRAPPED SEDIMENT WITH MACHINERY. EVEN WHEN PUMPING FROM THE TOP OF THE WATER COLUMN, PROVISIONS MUST STILL BE MADE TO FILTER WATER AS REQUIRED IN THIS SECTION PRIOR TO DISCHARGING TO A STREAM. DURING THE DEWATERING, PERSONNEL SHOULD BE ASSIGNED TO MONITOR PUMPING OPERATIONS AT ALL TIMES TO ENSURE THAT SEDIMENT POLLUTION IS ABATED. PUMPING SEDIMENT-LADEN WATER INTO THE WATERS OF THE STATE WITHOUT FILTRATION IS PROHIBITED.
- 5. THE DEWATERING DEVICE MUST BE SIZED (AND OPERATED) TO ALLOW PUMPED WATER TO FLOW THROUGH THE FILTERING APPARATUS WITHOUT EXCEEDING THE CAPACITY OF THE STRUCTURE. SESC NOTES

1. CONTRACTOR IS TO CONTACT AUTHORITY HAVING JURISDICTION AT LEAST THREE (3) DAYS PRIOR TO

- THE START OF CONSTRUCTION.
- 2. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL SOIL EROSION CONTROL MEASURES DURING CONSTRUCTION. SESC MEASURES SHOULD BE CHECKED DAILY AND AFTER STORM EVENTS FOR EFFECTIVENESS. OWNER SHALL MAINTAIN ALL PERMANENT SESC MEASURES AFTER CONSTRUCTION IS COMPLETE. ALL SESC MEASURES SHALL BE CHECKED MONTHLY FOR ONE YEAR FOR EFFECTIVENESS. ANY MEASURES THAT HAVE FAILED SHALL BE REPAIRED AND/OR REPLACED.
- 3. ALL TEMPORARY S.E.C. MEASURES SHALL BE MAINTAINED 30 DAYS AFTER CONSTRUCTION IS COMPLETE OR UNTIL GRADED AREAS ARE STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING TEMPORARY SESC MEASURES.
- 4. ALL GRADED AREAS EXPOSED FOR MORE THAN 20 DAYS SHALL HAVE STRAW MULCH APPLIED AT THE RATE OF 3 TONS / ACRE. AREAS NOT AT FINISHED GRADE AND WHICH WILL BE DISTURBED AGAIN WITHIN ONE YEAR MUST BE SEEDED AND MULCHED WITH QUICK GROWING TEMPORARY SEEDING MIXTURE AND MULCH. AREAS WHICH ARE AT FINISHED GRADE AND WILL NOT BE DISTURBED FOR A YEAR MUST BE SEEDED AND MULCHED WITH A PERMANENT SEED MIXTURE.
- 5. ONLY LIMITED DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO THE SITE FOR GRADING AND TO CONSTRUCT SEDIMENT BASINS, SEDIMENT TRAPS, DIVERSION TERRACES, INTERCEPTOR CHANNELS, AND/OR CHANNELS OF CONVEYANCE AS APPROPRIATE.
- 6. EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE WITH THE TRIBUTARY AREAS OF THOSE CONTROLS.
- 7. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF AL EROSION AND SEDIMENTATION CONTROL ON A DAILY BASIS AND AFTER EACH STORM EVENT. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY.
- 8. CONTACT INFORMATION FOR THE ON-SITE EXCAVATING CONTRACTORS, HAULING CONTRACTORS, ETC., PERSON AND COMPANY, INCLUDING OFFICE, MOBILE AND FAX PHONE NUMBERS, SHALL BE SUBMITTED TO AUTHORITY HAVING JURISDICTION PRIOR TO COMMENCEMENT OF EARTH DISTURBANCE.

PERMANENT SEEDING

1. REFER TO LANDSCAPE PLANS FOR PERMANENT SEEDING SPECIFICATIONS.

2. ALL WORK WITHIN THE TELEGRAPH ROAD RIGHT-OF-WAY SHALL BE RESTORED WITH A MINIMUM OF FOUR INCHES TOPSOIL, SEED, AND MULCH.

_____ SWPPP AMENDMENT LOG DESCRIPTION OF THE AMENDMENT **GRADING AND STABILIZATION LOG** DATE DATE OF RADING STABILIZATION DESCRIPTION OF THE STABILIZATION MEASURE AND CTIVITY MEASURES LOCATION INITIATED CEASED

SWPPP CONTACT

PROJECT NAME:

| AMENDMENT No. | DATE OF AMENDMENT | AMENDMENT PREPARED BY [NAME(S) AND TITLE] | |
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PROJECT NAME:

| DATE GRADING ACTIVITY INITIATED | TEMPORARY OR PERMANENT ACTIVITY | LOCATION AND DESCRIPTION OF THE GRADING ACTIVITY | DATE GRADING ACTIVITY CEASED | DATE OF STABILIZATION MEASURES INITIATED | DESCRIPTION OF THE STABILIZATION MEASURE A LOCATION |
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| SWPPP CONTACT:



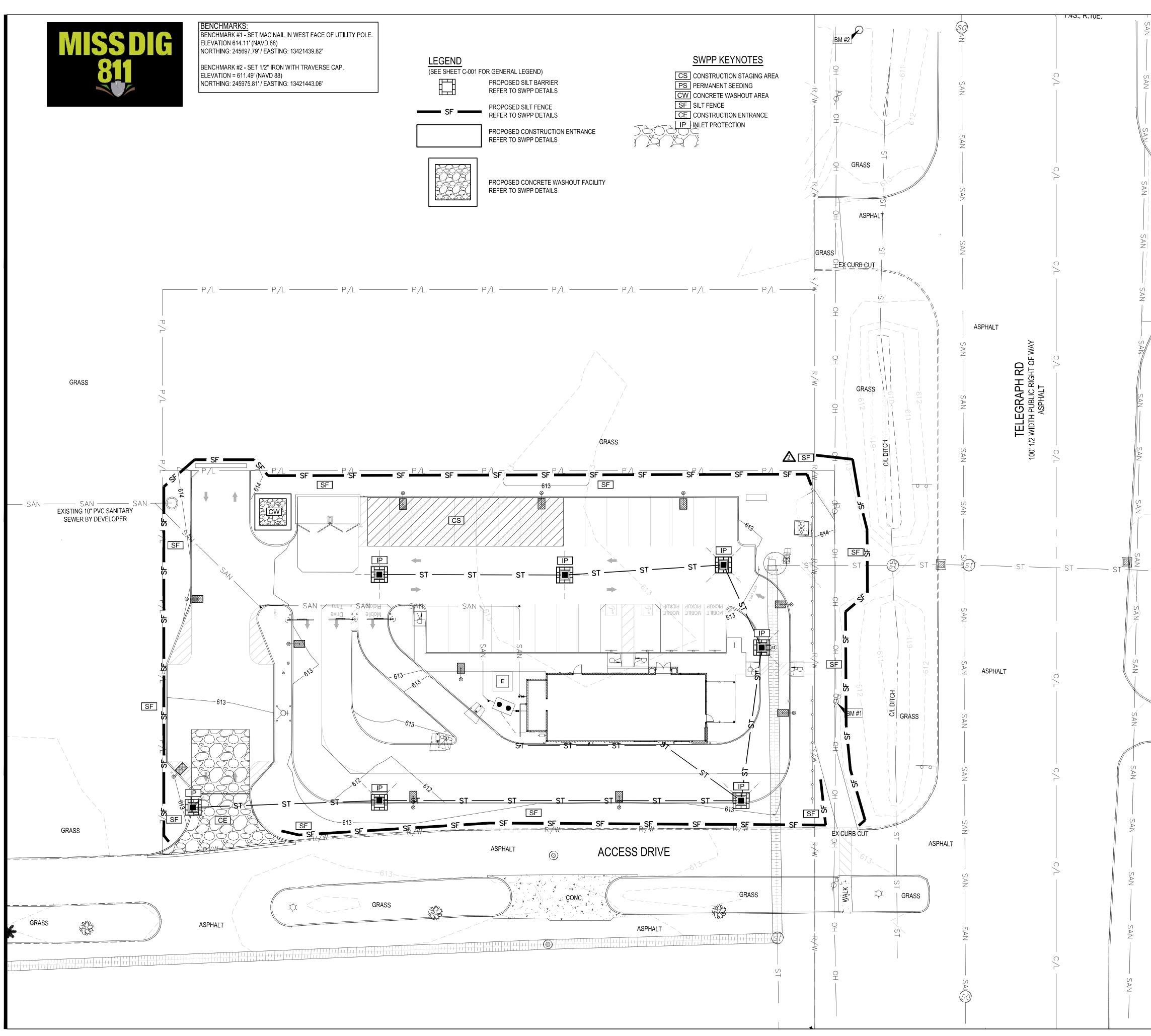


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CONSTRUCTION SEQUENCE

- DURING PRE-CONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED. A GENERAL CONSTRUCTION SEQUENCE FOLLOWS AND MAY NEED TO BE UPDATED BY THE CONTRACTOR TO SUIT THE SPECIFICS OF THE SITE AND INTENDED CONTRACTOR SPECIFIC SEQUENCING.
- 1.1. INSTALL CONSTRUCTION ENTRANCE AS DETAILED ON PLANS. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED AROUND PERIMETER OF CONSTRUCTION SITE. WHERE THERE IS EXISTING FENCE ALONG THE PERIMETER OF THE SITE, IT CAN BE UTILIZED. FENCING SHALL BE USED TO RESTRICT OUTSIDE TRAFFIC TO SITE.
- 1.2. DELIVER CONSTRUCTION TRAILER TO SITE AND INSTALL TEMPORARY POWER AND TELEPHONE, IF REQUIRED. TEMPORARY UTILITY SERVICES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 1.3. STAKE AND/OR FLAG LIMITS OF CLEARING.
- 1.4. CLEAR & GRUB, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS. INSTALL SILT PERIMETER CONTROLS AS SHOWN ON PLANS. SILT PERIMETER CONTROLS SHALL BE INSTALLED LEVEL, ALONG THE CONTOURS, WITH ENDS TURNED UPSLOPE TO PREVENT CONCENTRATED FLOW AT THE SILT PERIMETER CONTROLS.
- 1.5. INSTALL TEMPORARY SILT INLET PROTECTION ON ALL EXISTING CATCH BASINS AND INLETS, AS DESIGNATED IN THE PLANS. REMOVAL OF SILT INLET PROTECTION FROM DESIGNATED INLETS CAN ONLY OCCUR WHEN A STRUCTURE IS REMOVED, AND AS REQUIRED BY THE PROGRESSION OF THE DEMOLITION AND CONSTRUCTION.
- 1.6. CLEAR & GRUB THE REMAINING SITE AS NECESSARY. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR REUSE, OR REMOVED TO AN APPROVED OFFSITE SPOIL AREA. UTILIZE DUST CONTROL MEASURES AS REQUIRED TO MINIMIZE AIR-BORNE POLLUTION BY 17 METHODS APPROVED BY THE AUTHORIZING EPA OFFICE.
- 1.8. BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
- 1.9. ONCE PAVEMENT GRADES HAVE BEEN ESTABLISHED, AS DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL UTILIZE THESE AREAS FOR STRUCTURE CONSTRUCTION. 1.10. CONSTRUCT UNDERGROUND UTILITY WORK INCLUDING STORM DRAINAGE FACILITIES.
- UPON INSTALLATION OF STORM DRAINAGE CATCH BASINS, YARD DRAINS AND INLETS, INSTALL REQUIRED INLET PROTECTION.
- 1.11. DO NOT REPLACE ANY TOPSOIL, SEED OR INSTALL FINAL PAVEMENT PRIOR TO COMPLETION OF BUILDING SHELL. SHOULD SITEWORK BE COMPLETED PRIOR TO THIS DATE, MULCH DISTURBED AREAS TO BE PLANTED AND INSTALL STONE SUBBASE IN DISTURBED AREAS TO BE PAVED.
- 1.12. FOLLOWING COMPLETION OF BUILDING SHELL AND PAVEMENT INSTALLATION, BEGIN LANDSCAPE INSTALLATION.
- 1.13. COMPLETE SITEWORK, PAVEMENT MARKINGS AND FINAL CLEAN-UP. RESEED ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A MINIMUM 80% VEGETATIVE DENSITY HAS BEEN ACHIEVED.
- 1.14. MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED. ALL AREAS OF VEGETATIVE SURFACE, WHETHER PERMANENT OR TEMPORARY, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED. 1.15. REMOVE SEDIMENT CONTROLS.

PROJECT DESCRIPTION

THIS SITE WAS HOME TO A EMPTY FIELD. PROPOSED IMPROVEMENTS INCLUDE A NEW TACO BELL SITE ALONG WITH PARKING AREAS, SIDEWALKS, UTILITIES, AND AMENITY IMPROVEMENTS. WATER QUALITY AND DETENTION WILL BE DONE BY THE DEVELOPER AND ARE NOT PART OF THESE PLANS.

| PROJECT COMPLETION | STATISTICS | |
|---|--|---------------------------|
| PARCEL SIZE : TOTAL DISTURBED AREA: EXISTING LAND USE FOR THE SITE I | | 0.93 ACRES 1.00± ACRES |
| ESTIMATED PRE-CONSTRUC ESTIMATED PRE-CONSTRUC PRE-CONSTRUCTION RUN-OF | TION IMPERVIOUS AREA: TION IMPERVIOUS PERCENT: FF COEFFICIENT: | 0.00 ACRES 0% 0.40 |
| PROPOSED LAND USE WILL BE TACC ESTIMATED POST-CONSTRUC ESTIMATED POST-CONSTRUC POST-CONSTRUCTION RUN-C | CTION IMPERVIOUS AREA: CTION IMPERVIOUS PERCENT: | 0.67 ACRES 72% 0.76 |
| | LONGITUDE -83.267422° | |
| EXISTING SITE SOIL TYPES: CU: CUT AND FILL LAND REFERENCE: USDA NATIONAL RESO | DURCES CONSERVATION SERVICE WEB SO | IL SURVEY. |
| WETLAND INFORMATION: THERE ARE NO WETLANDS ON THIS | SITE. | |
| OWNER CONTACT: SAM YALDO TEL - SIB, LLC 31000 NORTHWESTERN HWY, SUITE FARMINGTON HILLS, MI 48334 | 110 | |
| ANTICIPATED TIMING: CONSTRUCTION BEGIN: CONSTRUCTION COMPLETE: | NOVEMBER, 2021 FEBRUARY, 2022 | |
| CONTRACTOR: T.B.D CONTACT: PHONE NUMBER: | | |
| CONTRACTOR SHALL MAINTAIN A CO STABILIZATION ACTIVITIES. | DNSTRUCTION LOG DOCUMENTING ALL GR | ADING AND |

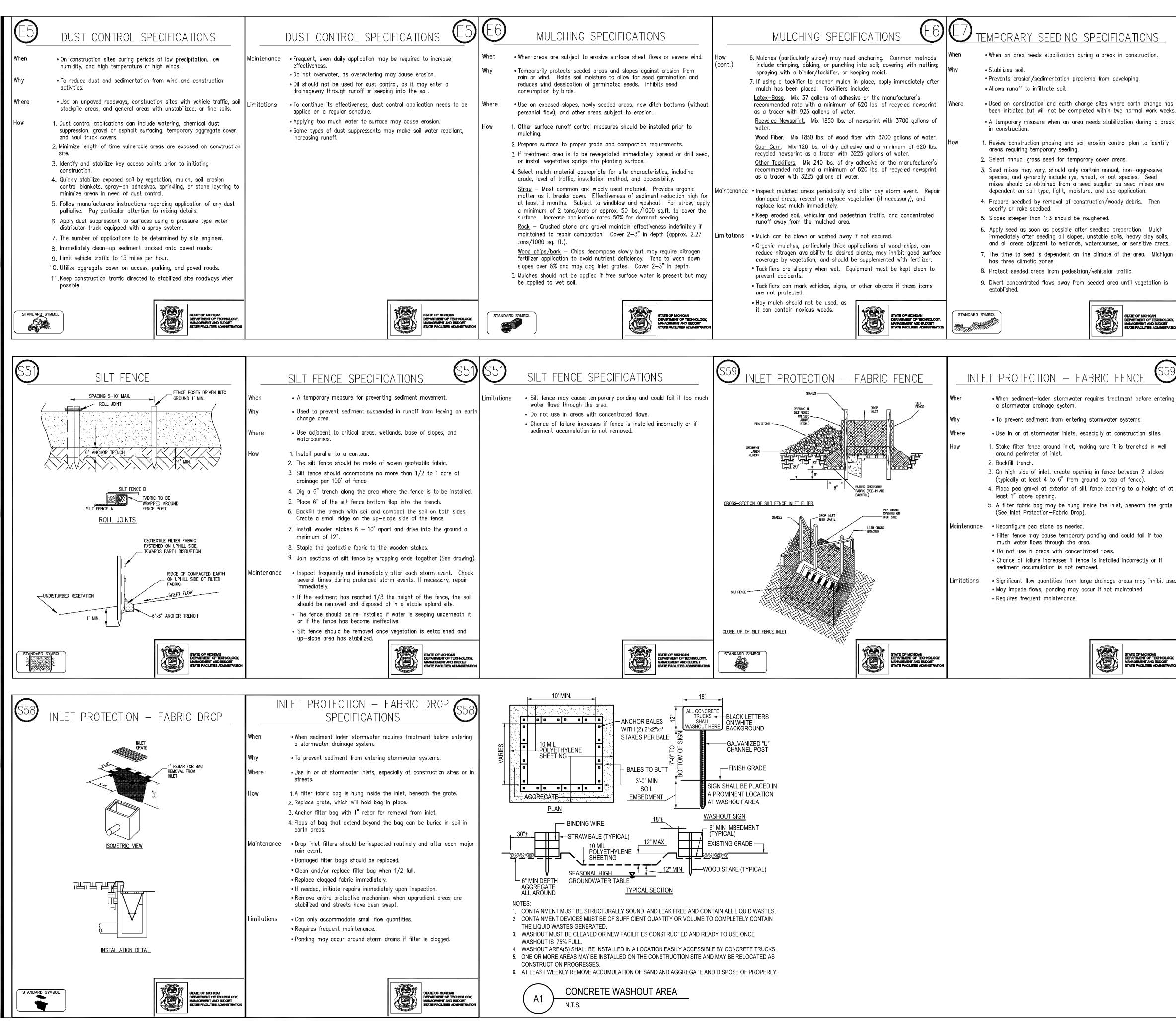




| CITY AND COUNTY COMMENTS | | | | | |
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| CONTRACT DATE: | 01/01/19 | | | | |
| BUILDING TYPE: | ENDEAVOR 2.0 | | | | |
| PLAN VERSION: | MARCH 2022 | | | | |
| BRAND DESIGNER: | DAN DICKSON | | | | |
| SITE NUMBER: | 315089 | | | | |
| STORE NUMBER: | 40164 | | | | |
| TACO | BELL | | | | |
| 18708 TELEC | GRAPH RD | | | | |
| BROWNSTOW | | | | | |
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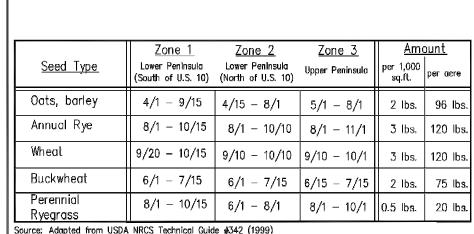


C-132



(cont.)

STATE OF MICHIGAN DEPARTMENT OF TECHNOLOG MANAGEMENT AND BUDGET



TEMPORARY SEEDING DATES

11. Must be followed by permanent seeding.

Limitations • Seeds need adequate time to establish.

10. Inspect temporary seeded areas weekly and following each rain

• May not be appropriate in areas with frequent traffic.

• Seeded area may require irrigation in dry periods.

event until final grading and stabilization activities are completed.

| | STATE OF MCHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET STATE FACILITIES ADMINISTRATION |
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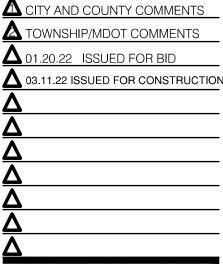


The State of Michigan Department of **Technology Management and Budget** State Facilities Administration details on this sheet has not been reviewed by the stamping party. Therefore, the stamping party makes no representation(s) with respect to its contents, and shall not be liable for such. Any reliance on this stamp shall be at the relying party(ies)'s own risk and hereby waives any and all claim(s) related to the existence of the stamp or otherwise.









CONTRACT DATE BUILDING TYPE: PLAN VERSION: BRAND DESIGNER: SITE NUMBER STORE NUMBER:

01/01/19 ENDEAVOR 2.0 MARCH 2022 DAN DICKSON 315089 40164

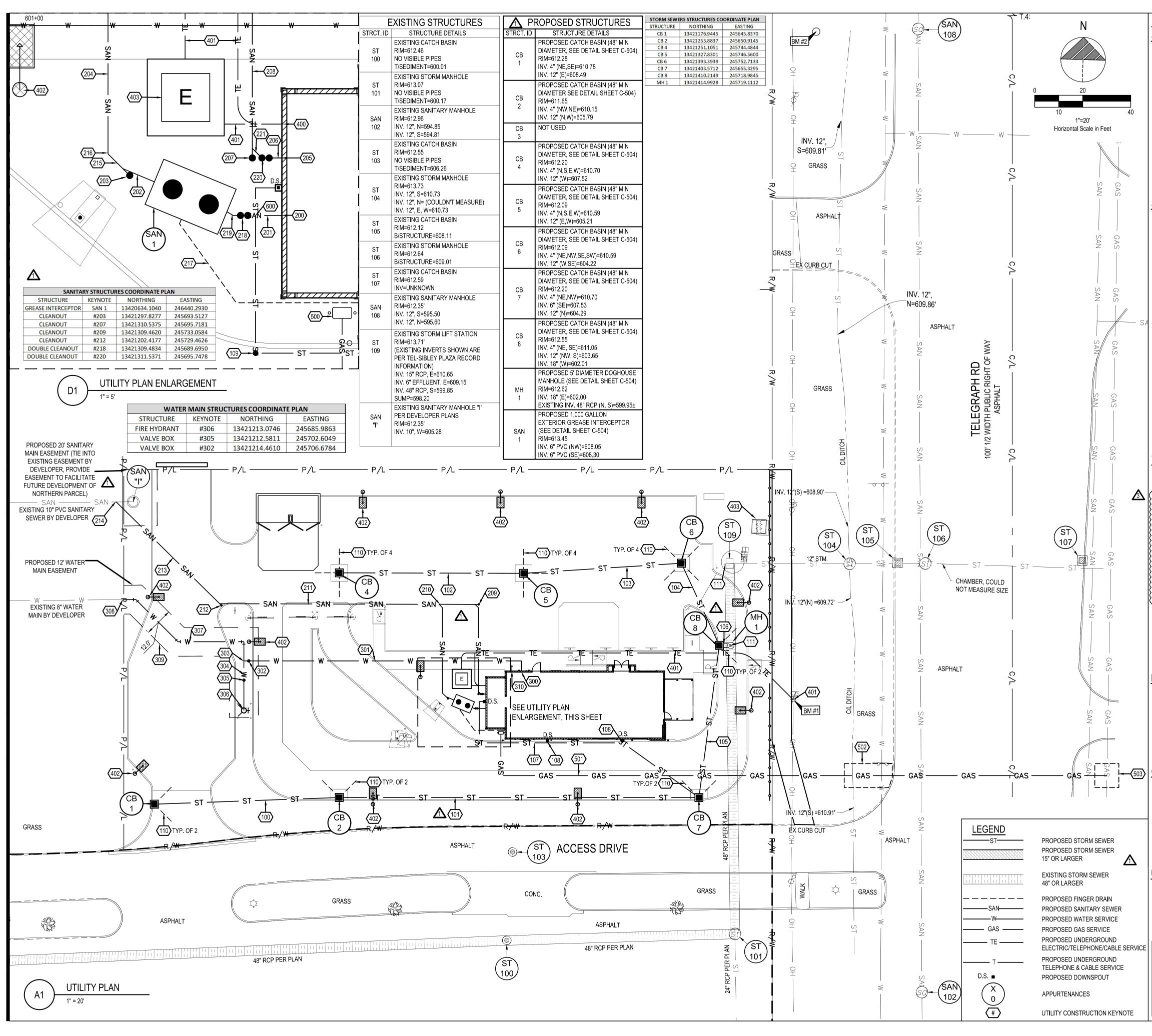
TACO BELL

18708 TELEGRAPH RD BROWNSTOWN, MI 48183





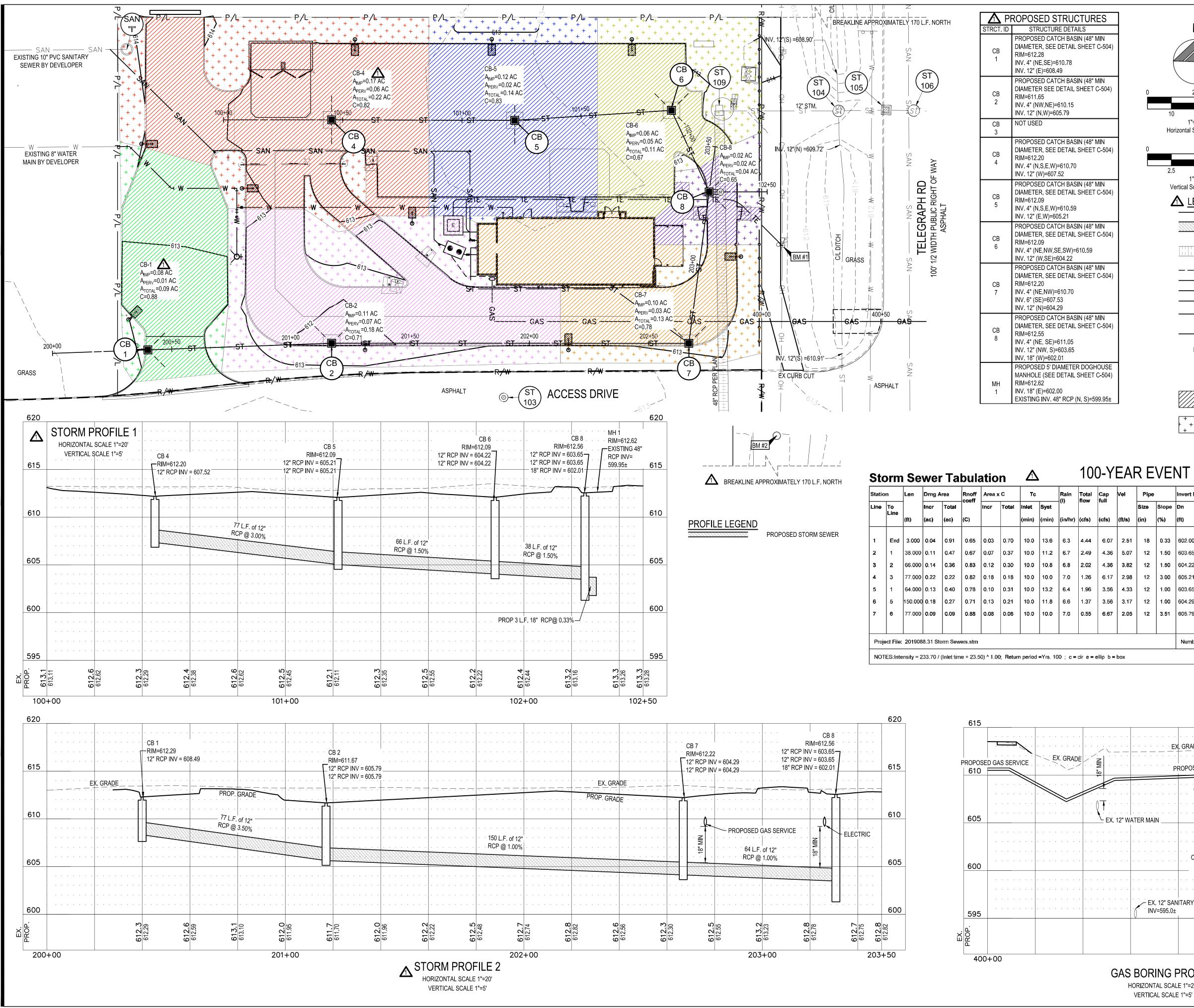
C-133

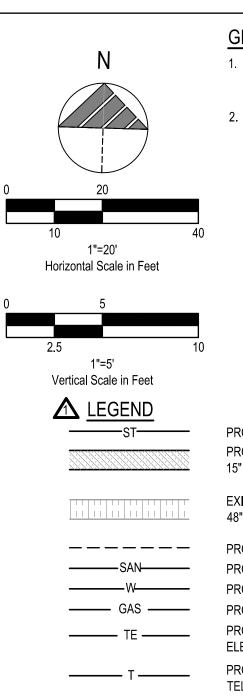


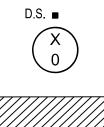
| PLAN | I KEYNOTES (###) | |
|-------------|---|---|
| STO | <u>RM</u> | |
| | PROPOSED 77 L.F. OF 12" RCP STORM SEWER @ 3.50%. PROPOSED 150 L.F. OF 12" RCP STORM SEWER @ 1.00%. | |
| 102. | PROPOSED 77 L.F. OF 12" RCP STORM SEWER @ 3.00%. | |
| | PROPOSED 66 L.F. OF 12" RCP STORM SEWER @ 1.50%. PROPOSED 38 L.F. OF 12" RCP STORM SEWER @ 1.50%. | GPD GROUP |
| 105. | PROPOSED 64 L.F. OF 12" RCP STORM SEWER @ 1.00%. | Professional Corporation |
| | PROPOSED 3 L.F. OF 18" RCP STORM SEWER @ 0.33%. PROPOSED 6" PVC DOWNSPOUT COLLECTOR LINE @ 2.50% MINIMUM. 118 L.F. TOTAL. INVERT AT | 520 South Main Street, Suite 2531 Akron, OH 44311 770 572 2100 5ee 770 572 2101 |
| | BUILDING DOWNSPOUT CONNECTION TO BE 610.48. PROPOSED 6" PVC DOWNSPOUT COLLECTOR LINE @ 1.00% MINIMUM. 2 L.F. TOTAL. | 330.572.2100 Fax 330.572.2101 |
| 109. | PROPOSED STORM CLEANOUT AND WYE CONNECTION PER DETAILS, SHEET C-504. INV=609.77. | |
| | PROPOSED FINGER DRAIN PER DETAIL, SHEET C-504. CONTRACTOR TO CLEAN EXISTING LINE OF SEDIMENT/DEBRIS PRIOR TO PROPOSED | |
| | CONNECTION. | |
| | | |
| | | |
| | | |
| | | |
| | PROPOSED SANITARY CONNECTION. INV=608.38. 21 PROPOSED 4 L.F. OF 6" PVC SANITARY SEWER @ 1.25%. | |
| | PROPOSED 4 L.F. OF 6" PVC SANITARY SEWER @ 1.25%. PROPOSED SANITARY CLEANOUT AND WYE CONNECTION (22.5 DEGREE BEND) PER DETAILS, | |
| | SHEET C-504. INV=608.00. RIM=613.47. | |
| | PROPOSED 25 L.F. OF 6" PVC SANITARY SEWER @ 1,25%. PROPOSED SANITARY CONNECTION. INV=608.25. | |
| 206. | PROPOSED 2 L.F. OF 6" PVC SANITARY SEWER @ 1.25%. | |
| | PROPOSED SANITARY CLEANOUT AND WYE CONNECTION PER DETAILS, SHEET C-504. INV=608.18. RIM=613.48 | |
| | PROPOSED 38 L.F. OF 6" PVC SANITARY SEWER @ 1.25%. PROPOSED SANITARY CLEANOUT AND WYE CONNECTION PER DETAILS, SHEET C-504. INV=607.70. | |
| | RIM=612.50. | |
| | PROPOSED SANITARY WYE CONNECTION PER DETAIL, SHEET C-504. INV=607.49. PROPOSED 108 L.F. OF 6" PVC SANITARY SEWER @ 1.25%. | |
| | PROPOSED SANITARY CLEANOUT AND WYE CONNECTION PER DETAILS, SHEET C-504. INV=606.35. | |
| | RIM=613.32. PROPOSED 61 L.F. OF 6" PVC SANITARY SEWER @ 1.25%. | |
| | PROPOSED CONNECTION TO EXISTING SANITARY SEWER MAIN BY DEVELOPER. NEATLY CORE DRILL AND PROVIDE WATER TIGHT CONNECTION. 6" PVC (SW) INVERT=605.59. | E OF MICL |
| 215. | PROPOSED 3 L.F. OF 6" PVC SANTIARY SEWER @ 1.25% | |
| | PROPOSED 45 DEGREE BEND PROPOSED 23 L.F. OF 3" VENT PIPE TO GREASE INTERCEPTOR. COORDINATE EXACT LOCATION | LEONARDO A. |
| 218. | WITH PLUMBING PLANS. PROPOSED TWO-WAY SANITARY CLEANOUT. REFER TO PLUMBING PLANS. 6" INV= 608.33. | |
| | RIM=613.47. | No. 63423 |
| | PROPOSED 2 L.F. OF 6" PVC SANITARY SEWER @ 1.25%. PROPOSED TWO-WAY SANITARY CLEANOUT AND WYE CONNECTION. REFER TO PLUMBING PLANS. | A |
| | 6" INV= 608.22. RIM= 613.49 | FOR SEASON |
| 221. WAT | PROPOSED 3 L.F. OF 6" PVC SANITARY SEWER @ 1.25%. E R | 06/15/22 |
| | PROPOSED WATER CONNECTION. PROPOSED WATER METER AND BACKFLOW PREVENTOR | 06/15/22 |
| | INSIDE BUILDING PER TOWNSHIP OF BROWNSTOWN STANDARDS AND SPECIFICATIONS. BACKFLOW PREVENTOR SHALL BE LOCATED AFTER THE METER. | |
| 301. | PROPOSED 121 L.F. 2" (TYPE K) WATER SERVICE LINE. | |
| 302. | PROPOSED 2" VALVE AND BOX PER TOWNSHIP OF BROWNSTOWN STANDARDS AND | |
| 303. | PROPOSED 2" WATER SERVICE TAP PER TOWNSHIP OF BROWNSTOWN STANDARDS AND | |
| 304. | SPECIFICATIONS. PROPOSED 8" x 6" REDUCER. | |
| 305. | PROPOSED 6" VALVE AND BOX PER TOWNSHIP OF BROWNSTOWN STANDARDS AND | |
| | PROPOSED 12 L.F. FIRE HYDRANT ASSEMBLY PER TOWNSHIP OF BROWNSTOWN FIRE | ▲ CITY AND COUNTY COMMENTS ▲ TOWNSHIP/MDOT COMMENTS |
| | DEPARTMENT STANDARDS AND SPECIFICATIONS. PROPOSED 69 L.F. 8" WATER MAIN PER TOWNSHIP OF BROWNSTOWN STANDARDS AND | Δ 01.20.22 ISSUED FOR BID |
| | SPECIFICATIONS. CONTRACTOR SHALL PROVIDE THRUST BLOCKING AT ALL BENDS PER | |
| | TOWNSHIP STANDARDS. WATERMAIN SHALL BE INSTALLED AT 60" MINIMUM DEPTH AND PER TOWNSHIP STANDARDS AND SPECIFICATIONS. | $\overline{\Delta}$ |
| 308. | PROPOSED CONNECTION TO EXISTING DEVELOPERS WATER MAIN STUB. CONTRACTOR SHALL COORDINATE WITH DEVELOPER OF ADJACENT PROPERTY SUPPLYING WATER MAIN EXTENSION | Δ |
| | TO MAKE THE FINAL CONNECTION FOR THE PROPOSED WATER MAIN EXTENSION. CONTRACTOR | Δ |
| | SHALL COORDINATE ANY NECESSARY ADJUSTMENTS OR RELOCATIONS TO DEVELOPER SUPPLIED WATER MAIN STUB. | |
| | PROPOSED 12' WATER MAIN EASEMENT, CONTRACTOR TO COORDINATE WITH ADJACENT DEVELOPER. | Δ |
| | PROPOSED 1" IRRIGATION LINE, REFER TO IRRIGATION AND PLUMBING PLANS. | |
| ELEC | TRIC AND COMMUNICATIONS | |
| 400. | PROPOSED ELECTRIC METER PER ELECTRIC COMPANY SPECIFICATIONS. ELECTRIC SERVICE LINE TO BE COORDINATED WITH THE ELECTRIC COMPANY. | CONTRACT DATE: 01/01/19 |
| 401. | PROPOSED ELECTRIC AND TELECOMMUNICATIONS SERVICE CONNECTION TO BE COORDINATED | BUILDING TYPE: ENDEAVOR 2.0 |
| 402. | WITH THE UTILITY COMPANIES. PROPOSED LIGHT POLE AND FOUNDATION REFER TO DETAIL ON STRUCTURAL PLANS. | PLAN VERSION: MARCH 2022 |
| | PROPOSED PAD MOUNTED ELECTRICAL TRANSFORMER PER ELECTRICAL COMPANY | BRAND DESIGNER: DAN DICKSON |
| | SPECIFICATIONS. G.C. TO VERIFY EXACT LOCATION AND SIZE WITH UTILITY ENGINEER. IF EXISTING PAD TRANSFORMER MEETS UTILITY PROVIDER AND CLIENT REQUIREMENTS, | SITE NUMBER: 315089 STORE NUMBER: 40164 |
| | CONTRACTOR SHALL ROUTE SERVICE CONNECTION FROM THE EXISTING PAD TRANSFORMER TO THE BUILDING INSTEAD. | |
| GAS | | TACO BELL |
| 500. | PROPOSED GAS METER PER GAS COMPANY SPECIFICATIONS. GAS SERVICE LINE TO BE | |
| 501. | COORDINATED WITH THE GAS COMPANY. PROPOSED 274 L.F. GAS SERVICE CONNECTION TO BE COORDINATED WITH THE GAS COMPANY. | 18708 TELEGRAPH RD BROWNSTOWN, MI 48183 |
| | BORING UNDER TELEGRAPH ROAD SHALL BE PER WAYNE COUNTY, TOWNSHIP OF | |
| | BROWNSTOWN, AND UTILITY COMPANY STANDARDS AND SPECIFICATIONS. PROPOSED 20'X10' BORING PIT. CONTRACTOR TO RESTORE EXISTING LANDSCAPING TO | |
| | PRE-CONSTRUCTION CONDITION AFTER BORING IS COMPLETE. CONTRACTOR SHALL MAINTAIN DRAINAGE THROUGH WORK AREA. | |
| 503. | PROPOSED 10'X10' BORING PIT. CONTRACTOR TO RESTORE EXISTING LANDSCAPING TO | BELL |
| | PRE-CONSTRUCTION CONDITION AFTER BORING IS COMPLETE. GAS CONNECTION TO BE PERFORMED BY UTILITY PROVIDER. | ENDEAVOR 2.0 |
| UTILI | TY CROSSINGS | |
| | AL CROSSING NOTES: CONTRACTOR SHALL COORDINATE ALL CROSSINGS WITH THE UTILITY | |
| | ATION AT SANITARY OR STORM SEWER CROSSINGS. | |
| 600. | PROPOSED UTILITY CROSSING: 6" STORM INV=610.35; 6" SANITARY INV=608.34 | UTILITY PLAN |
| | | |
| | BENCHMARKS: | |
| 1 | BENCHMARK #1 - SET MAC NAIL IN WEST FACE OF | |
| | UTILITY POLE. ELEVATION 614.11' (NAVD 88) | |
| | NORTHING: 245697.79' / EASTING: 13421439.82' | C-141 |
| | BENCHMARK #2 - SET 1/2" IRON WITH TRAVERSE CAP. | |

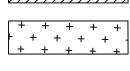
ELEVATION = 611.49' (NAVD 88) NORTHING: 245975.81' / EASTING: 13421443.06'_

,_____









GENERAL SHEET NOTES

- 1. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES WITHIN WORK AREA PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
- 2. WATER QUALITY AND DETENTION IS PROVIDED OFF-SITE BY DEVELOPER.



PROPOSED STORM SEWER PROPOSED STORM SEWER 15" OR LARGER

EXISTING STORM SEWER 48" OR LARGER

PROPOSED FINGER DRAIN PROPOSED SANITARY SEWER PROPOSED WATER SERVICE PROPOSED GAS SERVICE PROPOSED UNDERGROUND ELECTRIC/TELEPHONE/CABLE SERVICE PROPOSED UNDERGROUND **TELEPHONE & CABLE SERVICE** PROPOSED DOWNSPOUT

APPURTENANCES

PROPOSED IMPERVIOUS DRAINAGE AREA C=0.90

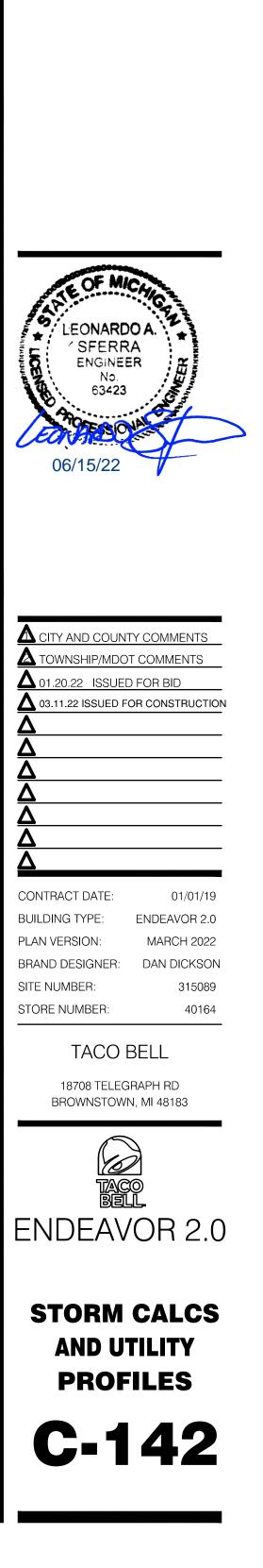
PROPOSED PERVIOUS DRAINAGE AREA C=0.40

Page 1

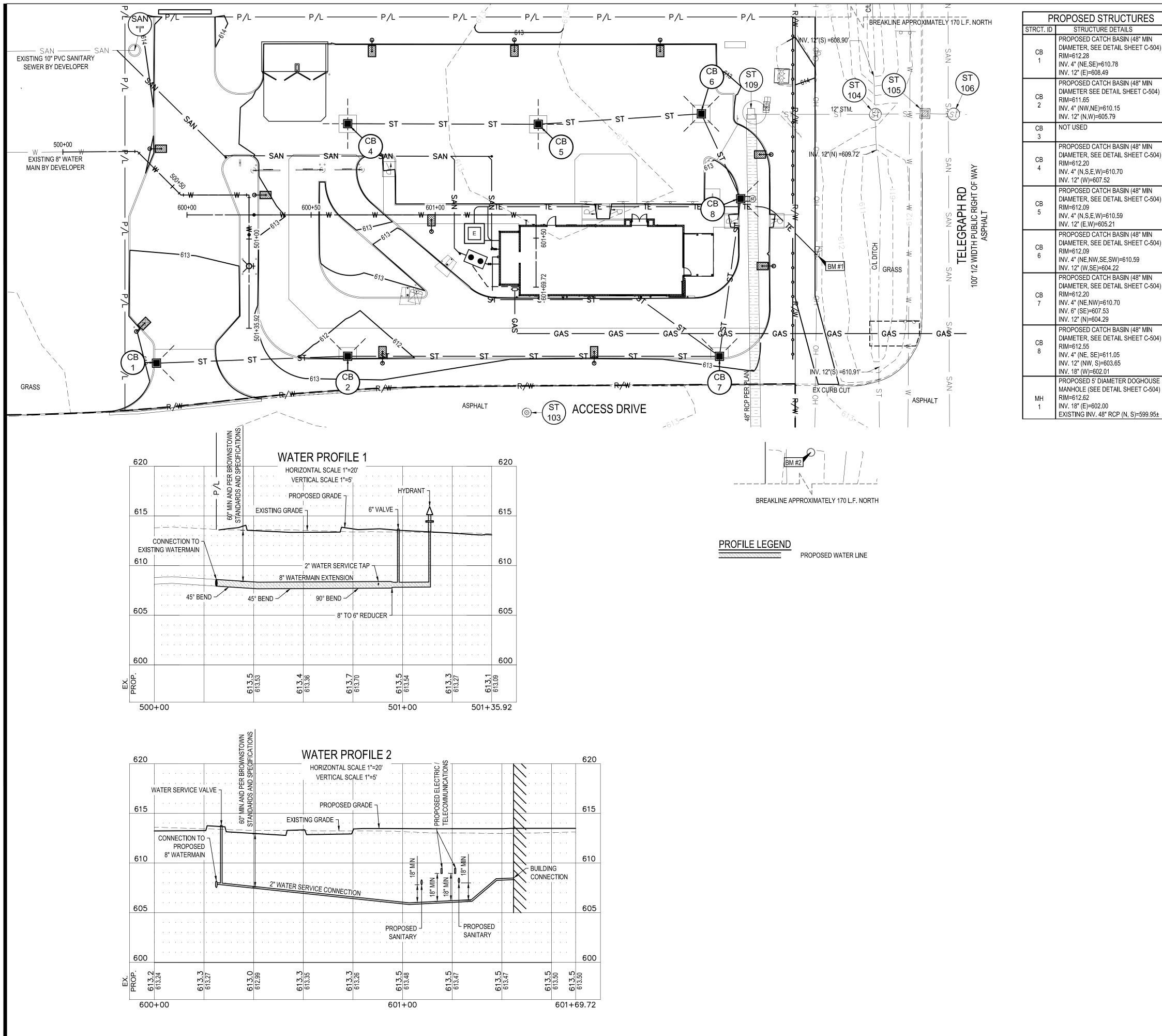
| | Pipe | | Invert Elev | | HGL Elev | | Grnd / Rim Elev | | Line ID |
|--------------------|------|---------|-------------|--------|----------|--------|-----------------|--------|--------------|
| | Size | Slope | Dn | Up | Dn | Up | Dn | Up | , |
| | (in) | (%) | (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | |
| | | | | | | | | | |
| | 18 | 0.33 | 602.00 | 602.01 | 603.95 | 603.96 | 613.15 | 612.55 | CB 8 TO MH 1 |
| • | 12 | 1.50 | 603.65 | 604.22 | 604.19 | 604.90 | 612.55 | 612.09 | CB 6 TO CB 8 |
| 2 | 12 | 1.50 | 604.22 | 605.21 | 604.90 | 605.82 | 612.09 | 612.09 | CB 5 TO CB 6 |
| } | 12 | 3.00 | 605.21 | 607.52 | 605.82 | 607.99 | 612.09 | 612.20 | CB 4 TO CB 5 |
| 6 | 12 | 1.00 | 603.65 | 604.29 | 604.18 | 604.89 | 612.55 | 612.20 | CB 7 TO CB 8 |
| , | 12 | 1.00 | 604.29 | 605.79 | 604.89 | 606.28 | 612.20 | 611.65 | CB 2 TO CB 7 |
| i | 12 | 3.51 | 605.79 | 608.49 | 606.28 | 608.80 | 611.65 | 612.28 | CB 1 TO CB 2 |
| | | | | | | | | | |
| Number of lines: 7 | | Run Dat | e: 8/31/20 |)21 | | | | | |

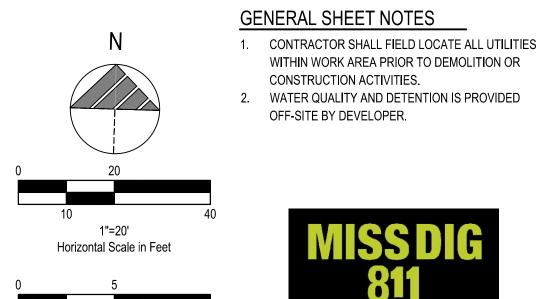
Storm Sewers v2020.00

| | EGRAPH ROAD | 615 |
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| BORING F | PROFILE | |
| IORIZONTAL SCALI | E 1"=20' | |
| | | |









1"=5'

Vertical Scale in Feet

<u>LEGEND</u>

_____ST____

2.5



WITHIN WORK AREA PRIOR TO DEMOLITION OR

CONSTRUCTION ACTIVITIES.

OFF-SITE BY DEVELOPER.

PROPOSED STORM SEWER PROPOSED STORM SEWER 15" OR LARGER

EXISTING STORM SEWER 48" OR LARGER

PROPOSED FINGER DRAIN

| SAN |
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PROPOSED SANITARY SEWER PROPOSED WATER SERVICE PROPOSED GAS SERVICE PROPOSED UNDERGROUND ELECTRIC/TELEPHONE/CABLE SERVICE PROPOSED UNDERGROUND **TELEPHONE & CABLE SERVICE** PROPOSED DOWNSPOUT

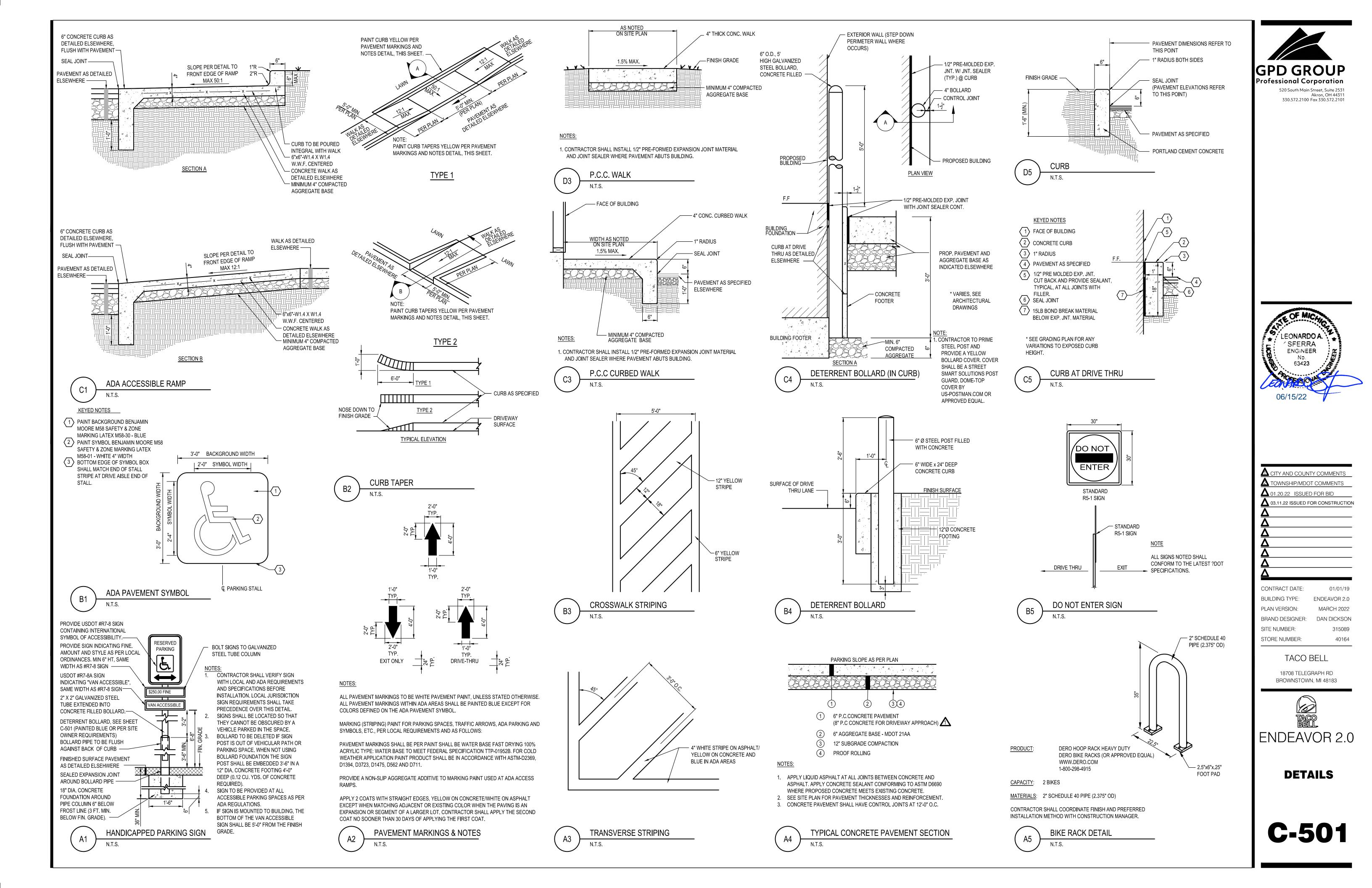
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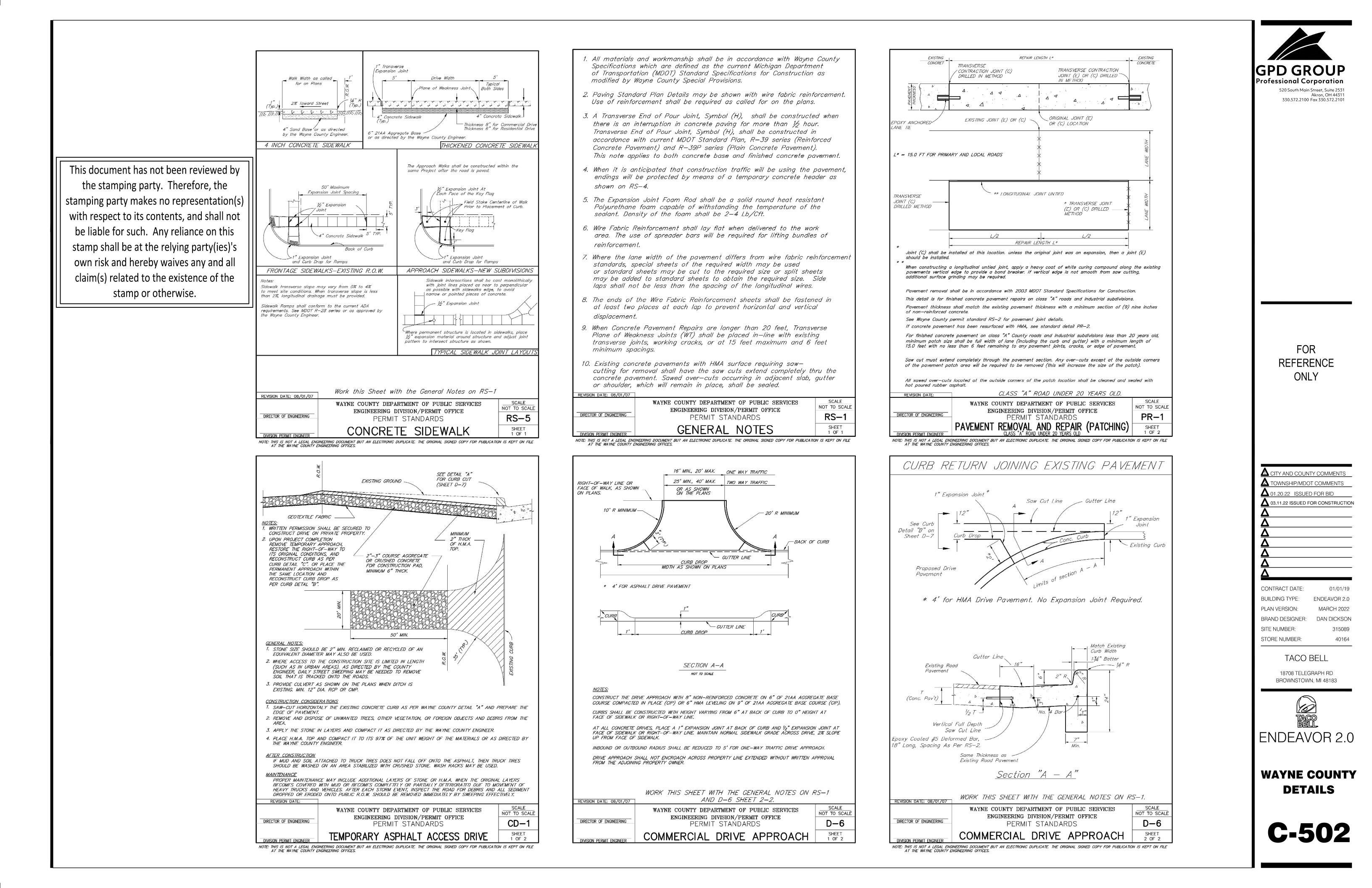


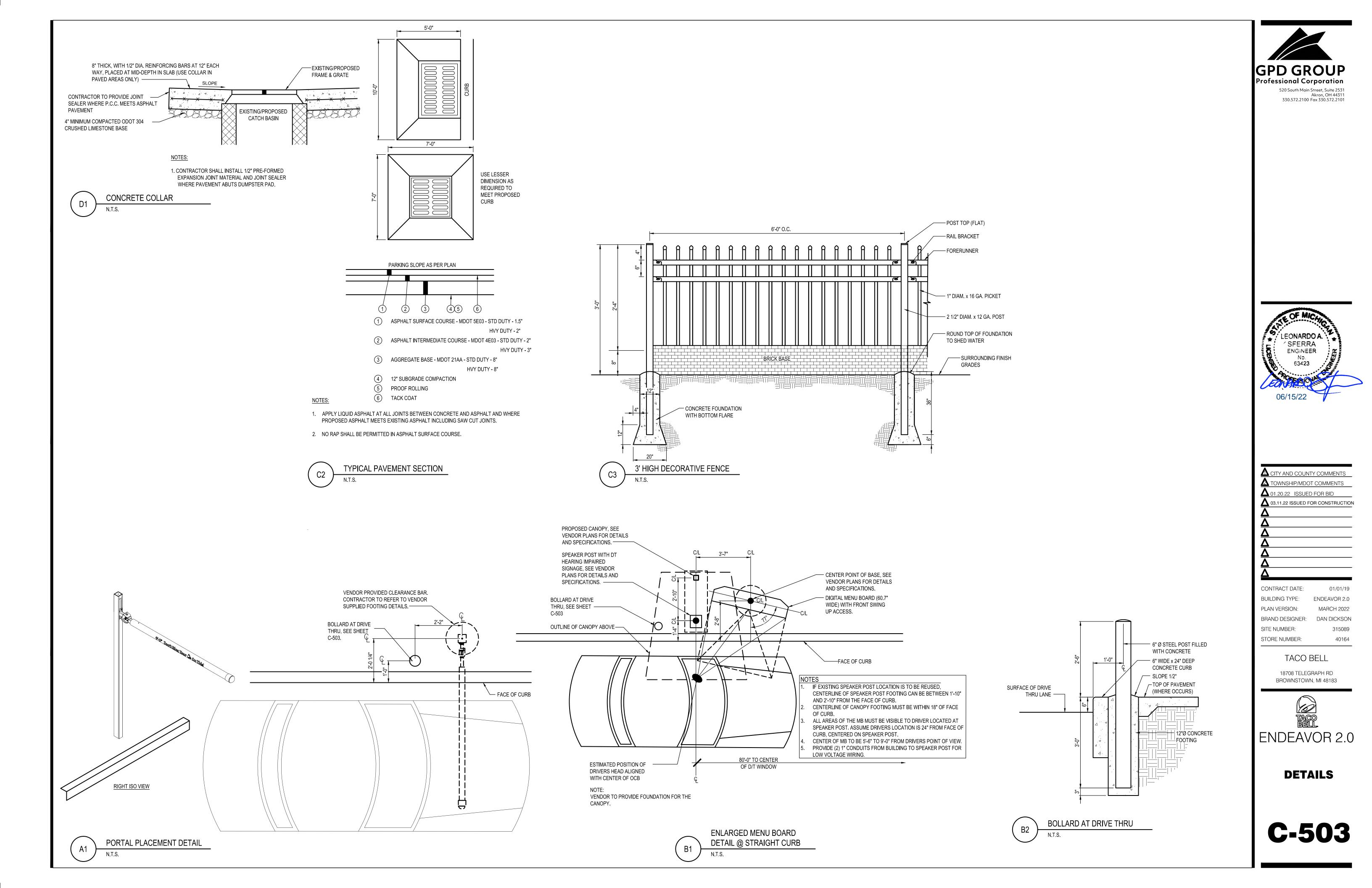


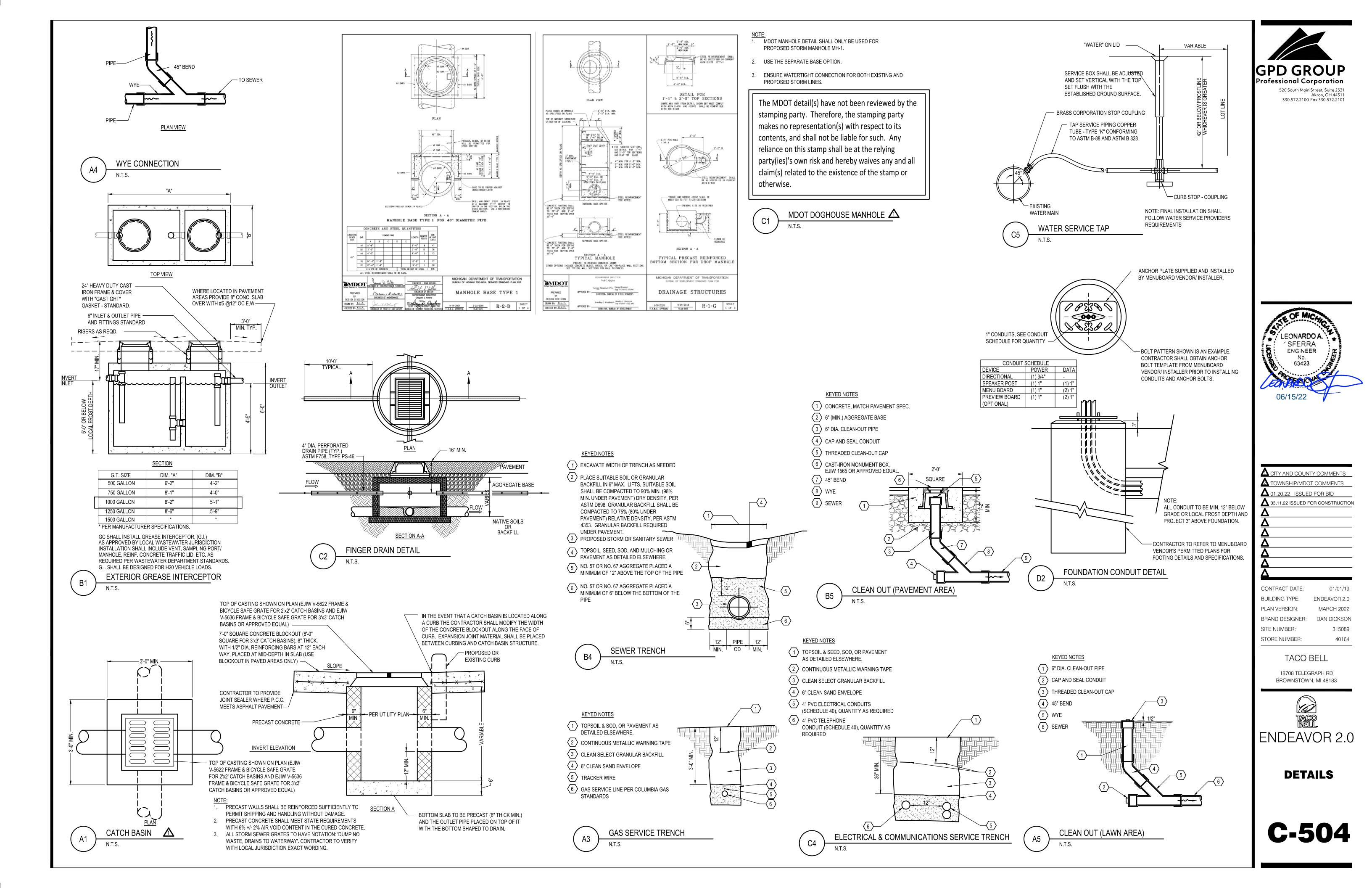
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| CONTRACT DATE: | 01/01/19 |
| BUILDING TYPE: | ENDEAVOR 2.0 |
| PLAN VERSION: | MARCH 2022 |
| BRAND DESIGNER: | DAN DICKSON |
| SITE NUMBER: | 315089 |
| STORE NUMBER: | 40164 |
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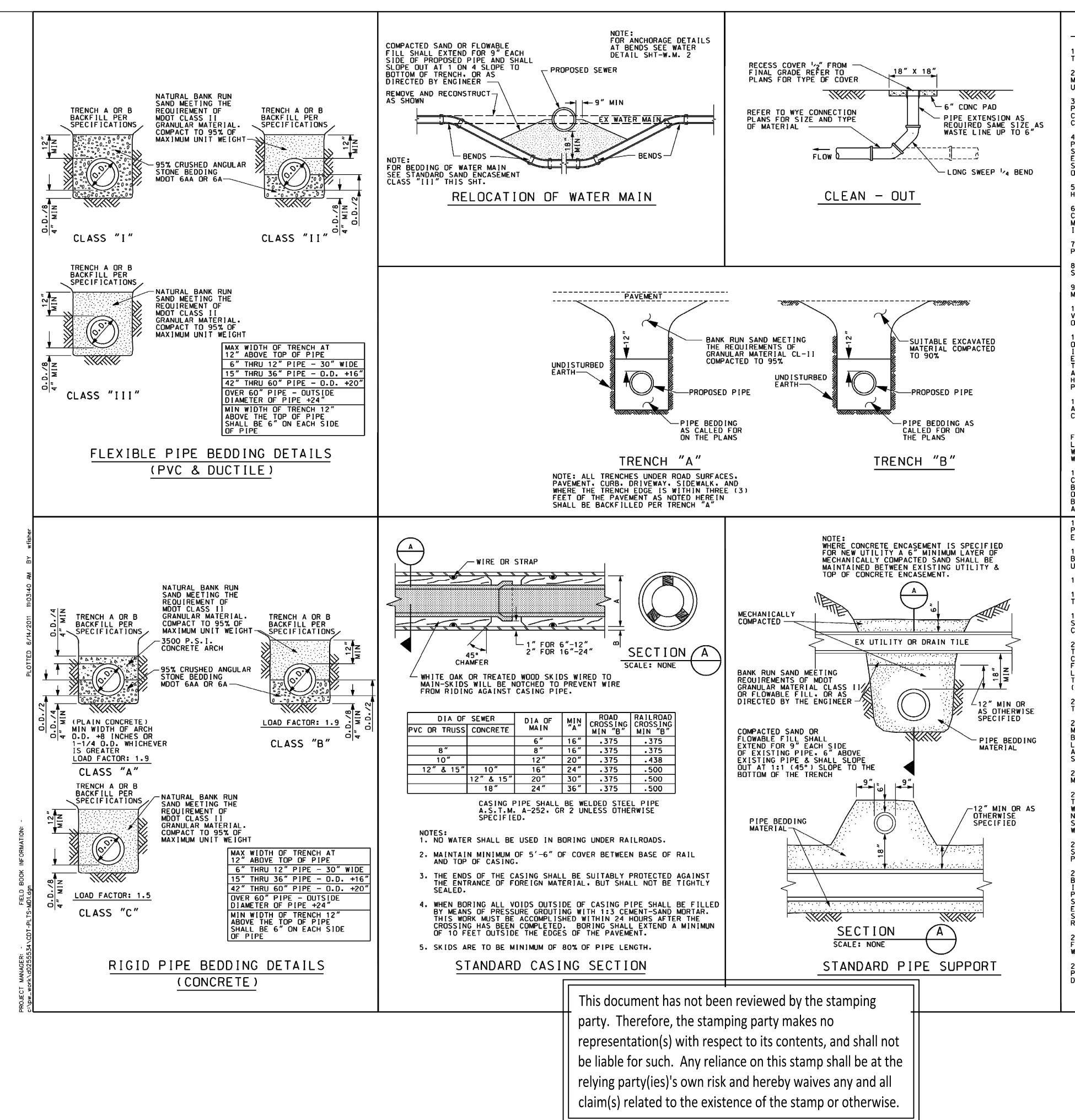
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GENERAL NOTES

. AS HEREIN SPECIFIED. THE OWNER SHALL BE UNDERSTOOD TO MEAN BROWNSTOWN TOWNSHIP.

MEETING, AT A TIME AND PLACE AS ARRANGED BY THE OWNER, AT WHICH VARIOUS UTILITY COMPANIES AND GOVERNMENTAL AGENCY REPRESENTATIVES WILL BE PRESENT.

CONSTRUCTION.

4. THE CONTRACTOR SHALL MAINTAIN HIS CONSTRUCTION OPERATIONS WITHIN THE PRESENTLY EXISTING ROAD RIGHTS-OF-WAY AND EASEMENTS AS NOTED ON THE PLANS. OF SUCH AGREEMENTS TO THE OWNER AND ENGINEER.

6. THE CONTRACTOR SHALL MAKE ANY NECESSARY ARRANGEMENTS WITH UTILITY INTERFERING WITH OR DELAYING THIS CONSTRUCTION.

MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

OTHER EMERGENCY VEHICLES TO PROTECT LIFE, HEALTH AND PROPERTY.

PROPERLY BACKFILLED.

CONTRACTOR SHALL SUBMIT A DETOUR PLAN FOR REVIEW AND APPROVAL.

BE CAUSE TO STOP CONSTRUCTION, CONTRACTOR SHALL ALSO COMPLY WITH THE LOCAL AIR POLLUTION CONTROL ORDINANCES.

15. ALL GRAVEL AND DIRT ROADS OR DRIVEWAYS SHALL BE MAINTAINED BY GRADING. PLACING DUST PALLIATIVES, AND MAINTENANCE GRAVEL IN SUFFICIENT QUANTITY TO ELIMINATE DUST AND MAINTAIN TRAFFIC.

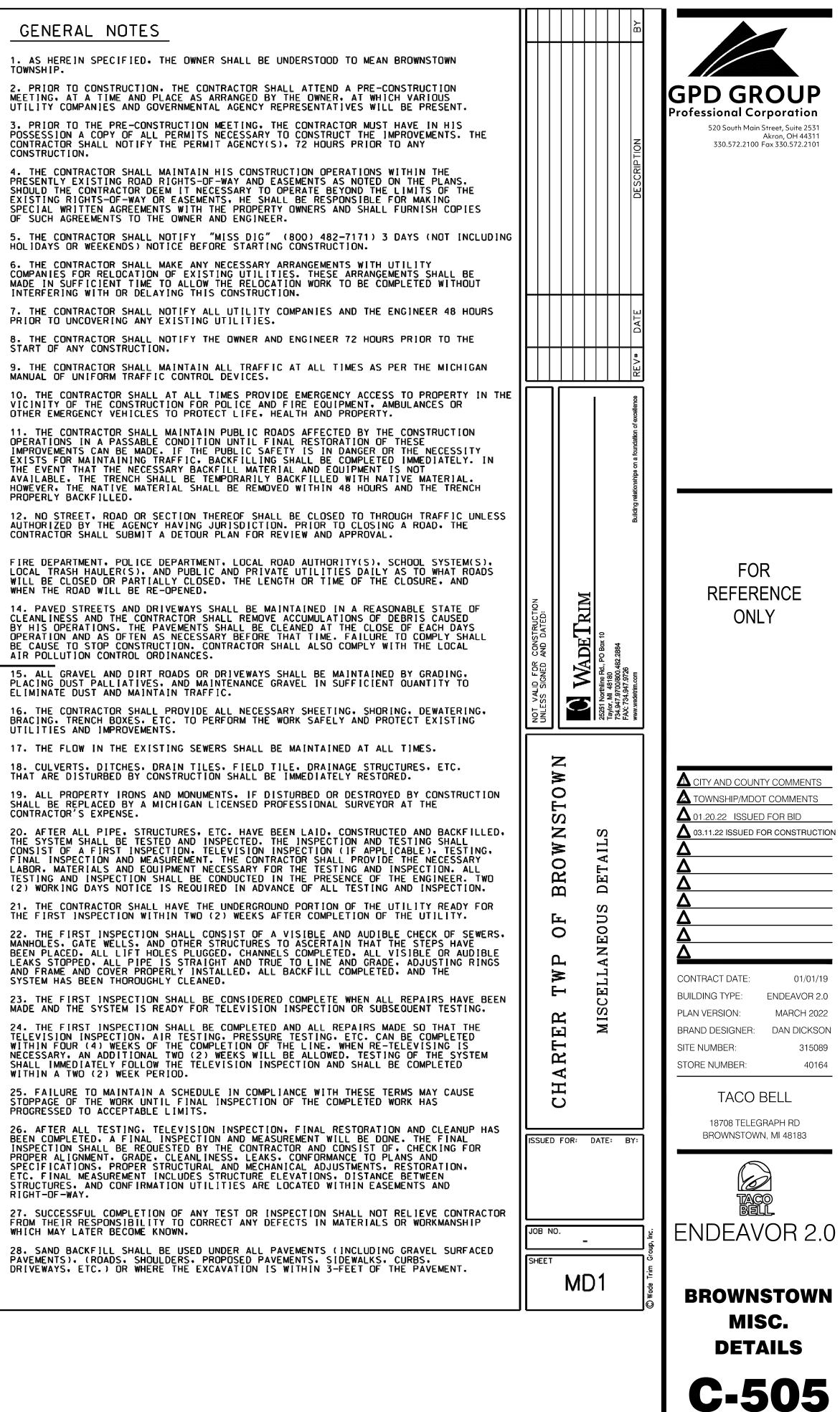
UTILITIES AND IMPROVEMENTS.

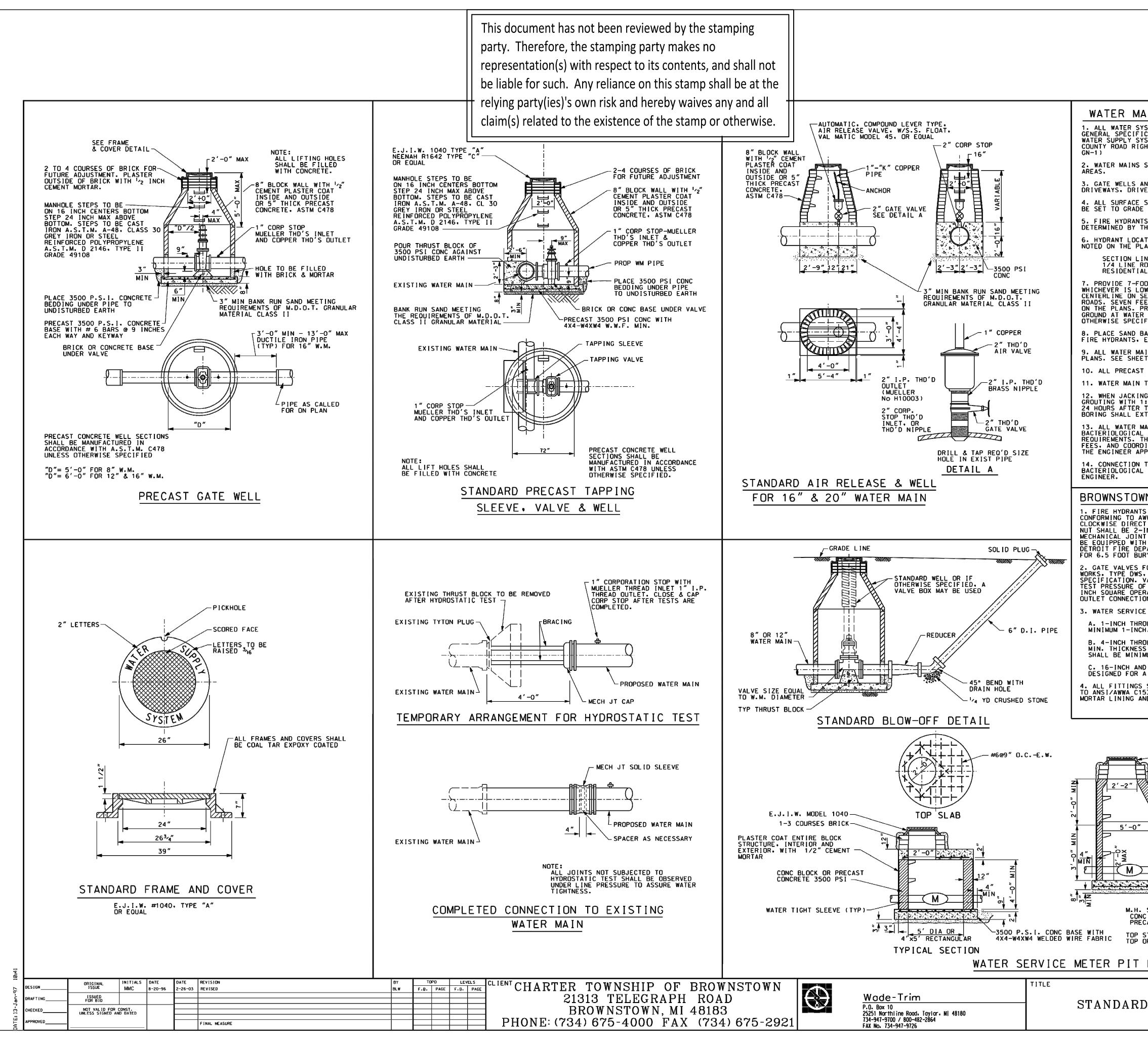
17. THE FLOW IN THE EXISTING SEWERS SHALL BE MAINTAINED AT ALL TIMES.

SHALL BE REPLACED BY A MICHIGAN LICENSED PROFESSIONAL SURVEYOR AT THE CONTRACTOR'S EXPENSE.

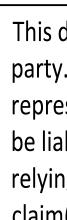
RIGHT-OF-WAY.

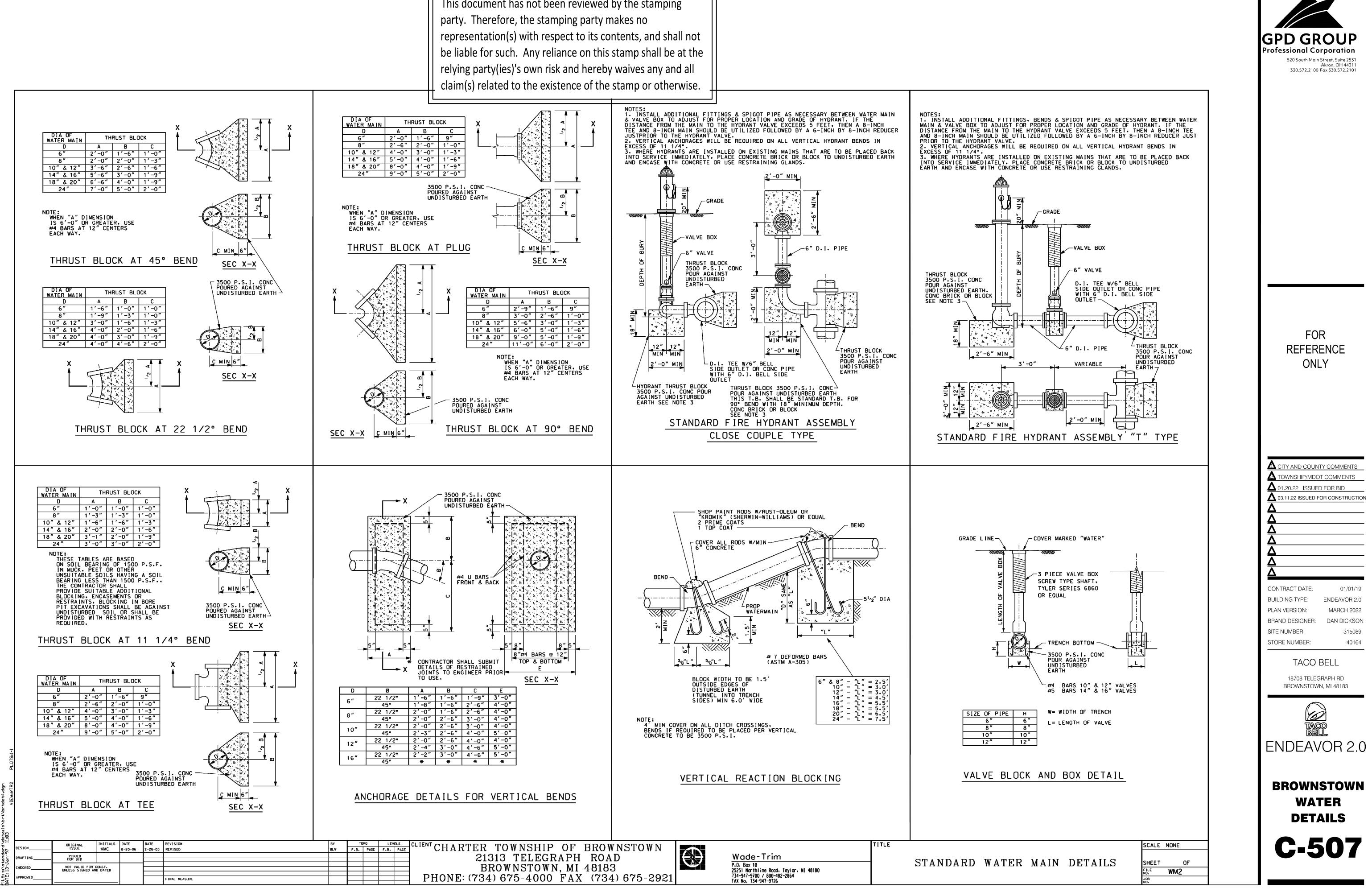
WHICH MAY LATER BECOME KNOWN.





| | GPD GROUP Professional Corporation |
|--|--|
| | 520 South Main Street, Suite 2531 Akron, OH 44311 330.572.2100 Fax 330.572.2101 |
| VIN NOTES STEM CONSTRUCTION SHALL CONFORM TO THE CURRENT STAND/ CATIONS OF THE AGENCY OR AGENCIES HAVING JURISDICTION STEM AND CONSTRUCTION AREA, ALL WORK WITHIN THE WAYNE HT-OF-WAY SHALL CONFORM TO THE WAYNE COUNTY GENERAL N | OF THE |
| SHALL NOT BE CONSTRUCTED UNDER SIDEWALKS OR ROAD PAVE | MENT |
| ND OTHER WATER MAIN STRUCTURES SHALL NOT BE CONSTRUCT | TED UNDER |
| E APPROACHES, OR SIDEWALKS. STRUCTURES, SUCH AS HYDRANTS, GATE WELLS AND VALVE BU AS FURNISHED BY THE ENGINEER OR AS INDICATED ON THE S ARE TO BE INSTALLED PLUMB AND HAVE THEIR NOZZLES AU HE ENGINEER. | PLANS. |
| TION: HYDRANTS ARE TO BE LOCATED AS FOLLOWS UNLESS O' ANS: | THERWISE |
| NE ROADS – 40 FEET OFF SECTION LINE DADS – 33 FEET OFF THE 1/4 LINE L STREETS – 22 FEET OFF CENTERLINE | |
| DT MINIMUM COVER BELOW EXISTING PAVEMENT CENTERLINE (WER, WHEN THE PROPOSED WATER MAIN IS WITHIN 32 FEET (ECTION LINE ROADS, OR WITHIN 19 FEET OF CENTERLINE OF ET OF COVER SHALL ALSO BE REQUIRED AT OTHER LOCATIONS ROVIDE 6 FOOT MINIMUM COVER BELOW EXISTING ROAD CENTE MAIN, WHICHEVER IS LOWER, AT ALL OTHER LOCATIONS UNU FICALLY NOTED ON THE PLANS. ACKFILL WITHIN 3 FEET OF ALL STRUCTURES INCLUDING VAL | OF N 1/4 LINE S AS NOTED ER LINE OR LESS |
| ETC. IN PIPE SHALL HAVE CLASS III BEDDING UNLESS OTHERWISE | |
| T MD-1. PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM (| 2-478. |
| TO BE PLACED LEVEL THROUGH ALL GATE WELLS. | |
| G OR BORING, ALL VOIDS SHALL BE FILLED BY MEANS OF PA 3 CEMENT:SAND MORTAR. THIS WORK MUST BE ACCOMPLISHED THE WATER MAIN HAS BEEN INSTALLED. WATER MAIN JACKING TEND A MINIMUM OF 10 FEET OUTSIDE THE EDGES OF THE PA | FOR FOR |
| AIN INSTALLATION/REPLACEMENT SHALL BE SUBJECT TO PRES TESTS PERFORMED IN ACCORDANCE WITH THE OWNERS HE CONTRACTOR SHALL ARRANGE FOR, PERFORM, PAY APPLIC/ INATE THIS TESTING, THE CONTRACTOR SHALL KEEP THE OWN PRISED OF THE SCHEDULE AND TEST RESULTS. | ABLE ONLY |
| TO EXISTING WATER MAIN SHALL BE MADE ONLY AFTER HYDR(TESTS HAVE BEEN SUCCESSFULLY COMPLETED AND REVIEWED | |
| N NOTES | |
| S SHALL BE EAST JORDAN IRON WORKS 5-BR BREAK-AWAY TYP WA C502 SPECIFICATION. HYDRANTS SHALL OPEN IN A COUN ION WITH A DIRECTIONAL ARROW CAST IN THE BONNET. OPE NCH SQUARE. HYDRANTS SHALL HAVE 5-1/4 INCH SEAT VALV HUB. AND DOUBLE OPERATING STEM O-RING SEALS. HYDRAN I TWO 4-INCH PUMPER NOZZLES. WITH DETROIT STANDARD TH PARTMENT STANDARD OPERATING NUT. HYDRANTS SHALL BE SU Y PAINTED YELLOW. TOR SIZES 4-INCH THROUGH 16-INCH DIAMETER SHALL BE EA SOLID WEDGE. CONFORMING TO DETROIT WATER SYSTEM YALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF 20 400 PSI. AND OPEN IN A CLOCKWISE DIRECTION AND SHAL ATING NUT. VALVES SHALL HAVE MECHANICAL JOINT INLET | TER- RATING E+ A 6-INCH T SHALL READ+ AND ITABLE ST JORDAN IROI O PSI AND A L HAVE A 2- |
| INS. AND WATER MAIN PIPE SHALL BE: | $\overline{\Delta}$ |
| DUGH 2-INCH DIAMETER - TYPE "K" COPPER. WATER SERVI I. | CES SHALL BE |
| DUGH 12-INCH DIAMETER WATER MAIN – DUCTILE IRON CLA 5 COAL TAR ENAMEL COATING INSIDE AND OUTSIDE. WATER M MUM 8-INCH DIAMETER. | $\begin{array}{c} \Delta \\ \Delta \\ \Delta \\ \Delta \end{array}$ |
|) LARGER - DUCTILE IRON CLASS 54 OR CONCRETE CYLIND MAXIMUM PRESSURE OF 250 PSI. | $\frac{\Delta}{\Delta}$ |
| SHALL BE DUCTILE IRON, PRESSURE RATING 350 PSI MINI 37A21.53, COMPACT FITTINGS, WITH DOUBLE THICKNESS CE ID COAL TAR ENAMEL COATING INSIDE AND OUTSIDE. | MUM, CONFORMIT MENT CONTRACT DATE: 01/01/19 BUILDING TYPE: ENDEAVOR 2.0 PLAN VERSION: MARCH 2022 |
| | BRAND DESIGNER: DAN DICKSON SITE NUMBER: 315089 |
| E.J.I.W. MODEL 1040 | STORE NUMBER: 40164 |
| FUTURE ADJUSTMENT | TACO BELL |
| AND EXTERIOR WITH 1/2 "CEMENT MORTAR CONCRETE BLOCK, OR | 18708 TELEGRAPH RD BROWNSTOWN, MI 48183 |
| PRECAST CONCRETE (3500 PSI) PRECAST MANHOLETHE BOTTOM PRECAST SECTION SI CASES BE CAST WITH THE BOTTOM END FLAT SO AS BEARING OF FULL WALL THICKNESS BOTTOM SECTION SET IN 1:2 CEMENT MORTAR. | HALL IN ALL |
| CONC BLOCK OR PRECAST CONCRETE (3500 PSI) | |
| WATER TIGHT SLEEVE (TYP) PRECAST 3500 P.S.I. CONCRETE BASE WITH 4X4-W4XW4 WELDED WIRE FABRIC | ENDEAVOR 2.0 |
| STEPS SHALL BE SPACED AS FOLLOWS: CONC BLOCK MAN | |
| AST M.H16" CENTERS USE 6" OR 8" STEP TO BE 24" MAX BELOW PRECAST MANHOLI ASTM C-478 WITH 5" THICK | · WATER |
| DETAIL | DETAILS |
| SCALI | C-506 |
| WATER MAIN DETAILS | |
| JOB NO. | |





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SCOPE OF WORK

- THIS WORK SHALL CONSIST OF PERFORMING CLEARING AND GRUBBING, SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- 2. QUANTITY TAKEOFF IS SUPPLIED FOR CONTRACTOR'S ASSISTANCE ONLY. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL PLANT MATERIALS AS PER PLAN.
- 3. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR WITHIN EASEMENT OR RIGHT-OF-WAY LIMITS.

PRESERVATION/PROTECTION (IF APPLICABLE)

- 1. CONTRACTOR SHALL MAINTAIN AND PRESERVE TREES AND SHRUBS NOT BEING REMOVED, INCLUDING THEIR ROOTS. TREE PROTECTION FENCING SHALL BE USED AT THE DRIP LINE OF ALL TREES AND SHRUBS WITHIN 50 FEET OF CONSTRUCTION EXCEPT AS SHOWN ON PLAN. FENCING SHALL REMAIN IN PLACE UNTIL FINAL PLANT INSPECTION FOLLOWING CONSTRUCTION. MATERIALS SHALL NOT BE STOCKPILED WITHIN THIS DEFINED AREA AND VEHICLES AND OTHER EQUIPMENT SHALL BE OPERATED TO AVOID SOIL COMPACTION.
- 2. FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA EQUAL TO TWICE THE TREE CIRCUMFERENCE (MEASURED 6" ABOVE THE GROUND LINE IN INCHES) EXPRESSED IN FEET. (EXAMPLE: A CIRCUMFERENCE OF 10" WOULD HAVE A 'NO CUT' ZONE OF 20 FEET IN ALL DIRECTIONS FROM THE TREE). THIS SHOULD APPLY TO UTILITY SERVICES, IF FEASIBLE. THE ONLY EXCEPTION TO THIS REQUIREMENT WILL BE THOSE SPECIFICALLY ALLOWED BY THE LANDSCAPE ARCHITECT, SPECIFICATIONS OR AS INDICATION ON THE PLANS.
- 3. TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING EQUIPMENT OPERATIONS SHALL BE TREATED IN ACCORDANCE WITH THE ARBOR CULTURAL STANDARDS OF THE CITY.

PLANT MATERIALS

- 1. GENERAL ALL MATERIALS SHALL BE OF ITS KIND AVAILABLE AND SHALL HAVE BEEN GROWN IN A CLIMATE SIMILAR TO THAT ON SITE.
- PLANTS ALL PLANTS SHALL BE HEALTHY, OF NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS. QUALITY AND SIZE OF PLANT MATERIAL SHALL CONFORM TO ANSI Z60.1 "AMERICAN STANDARDS FOR NURSERY STOCK".
- 3. VARIETIES AND SIZES OF PLANTS SHALL BE AS SHOWN ON DRAWINGS.
- 4. PLANTS SHALL BE IN A HEALTHY, VIGOROUS CONDITION, FREE OF DEAD OR BROKEN BRANCHES, SCARS THAT ARE NOT COMPLETELY HEALED, FROST CRACKS, DISFIGURING KNOTS, BROKEN OR ABRADED BARK, REDUNDANT LEADERS OR BRANCHES, OR ABERRATIONS OF ANY KIND. PLANTS SHALL NOT HAVE MULTIPLE LEADERS, UNLESS THIS IS THE NATURAL FORM.
- 5. BALLED AND BURLAPPED (B&B) PLANTS SHALL BE DUG WITH A FIRM ROOT BALL OF NATURAL EARTH, OF A SIZE IN PROPORTION TO THE PLANT'S SIZE, AS MEASURED BY CALIPER, HEIGHT, OR SPREAD. BALLED AND BURLAPPED PLANTS SHALL BE HANDLED ONLY BY THE ROOT BALL, NOT BY THE TRUNK OR BRANCHES, AS THIS MAY BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM. CONTAINER PLANTS SHALL HAVE BEEN ESTABLISHED FOR A MINIMUM OF ONE FULL GROWING SEASON IN THEIR CONTAINERS BEFORE INSTALLATION. CONTAINER PLANTS SHALL BE HANDLED ONLY BY THE CONTAINER, NOT BY THE STEMS OR BRANCHES, AS THIS MAY PULL THE PLANT OUT OF THE CONTAINER AND BREAK OR LOOSEN THE ROOT BALL AND DAMAGE THE ROOT SYSTEM.
- 6. PLANTS SHALL BE PROTECTED FROM DRYING OUT DURING SHIPPING WITH TARPAULINS OR OTHER COVERINGS. PLANTS SHALL BE PROTECTED FROM DRYING OUT AFTER DELIVERY BY PLANTING IMMEDIATELY; IF THIS IS NOT POSSIBLE, THE ROOT BALL SHALL BE COVERED WITH PEAT MOSS OR EARTH, AND WATERED FREQUENTLY TO KEEP IT MOIST UNTIL PLANTING.
- DO NOT HANDLE, MOVE, BIND, TIE OR OTHERWISE TREAT PLANTS SO AS TO DAMAGE THE ROOT BALL, ROOTS, TRUNK, OR BRANCHES IN ANY WAY.

TOPSOIL

- 1. TOPSOIL HAS BEEN (OR WILL BE) STOCKPILED FOR REUSE IN LANDSCAPE WORK. IF QUANTITY OF STOCKPILED TOPSOIL IS INSUFFICIENT, PROVIDE ADDITIONAL TOPSOIL AS REQUIRED TO COMPLETE LANDSCAPE WORK. IMPORTED TOPSOIL SHALL CONSIST OF LOOSE, FRIABLE, LOAMY TOPSOIL WITHOUT ADMIXTURE OF SUBSOIL OR REFUSE. ACCEPTABLE TOPSOIL SHALL CONTAIN NOT LESS THAN 3 PERCENT NOR MORE THAN 20 PERCENT ORGANIC MATTER.
- PLANTING BACKFILL FOR PARKING LOT ISLANDS SHALL CONSIST OF A HOMOGENEOUS MIXTURE OF 3 PARTS TOPSOIL TO ONE PART SPHAGNUM PEAT INSTALLED OVER A 6" THICKNESS OF NO. 57 AGGREGATE.

SOIL CONDITIONING

- 1. OBTAIN LABORATORY ANALYSIS OF STOCKPILED AND IMPORTED TOPSOIL COMPLETE WITH RECOMMENDATIONS FOR SOIL AMENDMENT.
- 2. BEFORE MIXING, CLEAN TOPSOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL OR TOXIC TO PLANT GROWTH.
- 3. MIX SPECIFIED SOIL AMENDMENTS AND FERTILIZERS WITH TOPSOIL AT RATES SPECIFIED BY THE LAB REPORT. DELAY MIXING OF FERTILIZER IF PLANTING WILL NOT FOLLOW PLACING OF PLANTING SOIL WITHIN A FEW DAYS.
- 4. FOR PLANTING BEDS AND LAWNS, MIX PLANTING SOIL EITHER PRIOR TO PLANTING OR APPLY ON SURFACE OF TOPSOIL AND MIX THOROUGHLY BEFORE PLANTING. MIX LIME WITH DRY SOIL PRIOR TO MIXING OF FERTILIZER.
- 5. PREVENT LIME FROM CONTACTING ROOTS OF ACID-LOVING PLANTS.
- APPLY PHOSPHORIC ACID FERTILIZER (OTHER THAN THAT CONSTITUTING A PORTION OF COMPLETE FERTILIZERS) DIRECTLY TO SUBGRADE BEFORE APPLYING PLANTING SOIL AND TILLING.

PLANTING SOIL

PLANTING SOIL MIX SHALL BE CLEAR OF ALL STONES AND DEBRIS 1" OR LARGER, AND CONSIST OF THE FOLLOWING: 25% ORGANIC COMPOST, 75% ACCEPTABLE TOPSOIL.

OTHER MATERIALS

- 1. BED EDGING EDGING SHALL BE 4" STEEL EDGING WITH THREE (3) METAL ANCHOR STAKES PER 20 FOOT SECTION. ALL MASS PLANTING BEDS SHALL HAVE EDGING PLACED BETWEEN MULCH AREA AND ANY ADJACENT TURF AREA.
- MULCH: ORGANIC MULCH FREE FROM DELETERIOUS MATERIALS AND SUITABLE FOR TOP DRESSING OF TREES, SHRUBS, OR PLANTS AND CONSISTING OF THE FOLLOWING:
- a. RIVER ROCK MULCH AREA: AGGREGATE MULCH, 3/4"-2" IN SIZE, WASHED AND ROUNDED, SHALL BE INSTALLED WITHIN THE RIVER ROCK MULCH AREA PER THE PLAN. RIVER ROCK MULCH SHALL BE INSTALLED AT 3" INCHES DEPTH.
- b. NON-DRYED, DOUBLE SHREDDED HARDWOOD SHALL BE INSTALLED IN ALL OTHER LANDSCAPE BEDS OUTSIDE OF THE RIVER ROCK MULCH AREA AT A DEPTH OF 3 INCHES.

GENERAL WORK PROCEDURES

- 1. LANDSCAPE WORK SHALL BE ACCORDING TO THE WORKMANLIKE STANDARDS ESTABLISHED FOR LANDSCAPE CONSTRUCTION AND PLANTING IN THE MICHIGAN STANDARDIZED LANDSCAPE SPECIFICATIONS (ASLA) AND ANY LOCAL LANDSCAPE ORDINANCES.
- 2. CONTRACTOR SHALL OBTAIN A COPY OF LOCAL ORDINANCES REGARDING ACCEPTABLE PLANT AND PLANTING DETAILS AND ABIDE BY THOSE ORDINANCES AND DETAILS.
- 3. ENGINEER RESERVES THE RIGHT TO REJECT ALL PLANT MATERIAL DEEMED NOT ACCEPTABLE.
- 4. ANY PROPOSED PLANT SUBSTITUTIONS SHALL BE EQUIVALENT IN FORM, HABIT, STRUCTURE, BRANCHING AND LEAF TYPE AND MUST BE ISSUED TO THE LANDSCAPE ARCHITECT FOR APPROVAL, IN WRITING, PRIOR TO INSTALLATION.

WEEDING

1. BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

PLANTING

- 1. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE OWNER BEFORE EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
- 2. PLANTING PITS SHALL BE AS PER DETAILS.
- 3. PREPARED SOIL SHALL BE TAMPED FIRMLY AT BOTTOM OF PIT. FILL WITH PLANTING SOIL AROUND BALL OF PLANT. COMPLETE BACKFILLING AND WATER THOROUGHLY.
- 4. EACH TREE AND SHRUB SHALL RECEIVE THE LANDSCAPER'S BIONUTRITION (3-0-3) GRANULAR WITH MYCORRHIZAL TECHNOLOGY FERTILIZER OR APPROVED OTHER. APPLY FERTILIZER PER MANUFACTURER'S SPECIFICATIONS.
- 5. WATER IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.
- 6. INSTALL BED EDGING AND MULCH PER MATERIALS SPECIFICATION AND DETAILS.
- 7. REMOVE ALL SALES TAGS, STRINGS, STRAPS, WIRE, ROPE OR OTHER MATERIALS THAT MAY INHIBIT PLANT GROWTH BOTH ABOVE AND BELOW THE SURFACE OF THE SOIL.
- 8. REMOVE ANY BROKEN, SUCKERING, DISEASED, CRISSCROSSED OR AESTHETICALLY DISPLEASING BRANCHES BACK TO LIVE LEADER OR SIDE LATERAL WITH A FLUSH CUT.

FINISH GRADING

- 1. ALL AREAS WILL BE GRADED BY THE CONTRACTOR TO SUBSTANTIALLY PLUS/MINUS 0.1 FOOT OF FINISH GRADE.
- 2. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN, UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE. SOIL AREAS ADJACENT TO THE BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.
- 3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER.
- 4. PARKING LOT ISLAND SHALL BE BACKFILLED AS PART OF THIS CONTRACT.

GROUND COVER

- 1. SPACING AND VARIETY OF GROUND COVER SHALL BE AS SHOWN ON DRAWINGS.
- 2. MULCH GROUND COVER WITH 2" THICKNESS OF SPHAGNUM PEAT.
- 3. IMMEDIATELY AFTER PLANTING GROUND COVER, CONTRACTOR SHALL THOROUGHLY WATER GROUND COVER.
- 4. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR TO APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION.

<u>GUARANTEE</u>

1. CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER.

<u>CLEANUP</u>

1. UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. AN 'ACCEPTABLE CONDITION' SHALL BE AS DEFINED AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

LANDSCAPE NOTES & PLANTING SPECIFICATIONS

IRRIGATION

- . CONTRACTOR SHALL PROVIDE & INSTALL AN IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF THE SITE. AREAS WITHIN 5 FEET OF BUILDING WALLS SHALL BE IRRIGATED BY DRIP IRRIGATION OR SIMILAR. CONTRACTOR SHALL ENSURE BUILDING WALLS AND WINDOWS WILL NOT BE DAMAGED OR STAINED BY IMPROPER IRRIGATION INSTALLATION OR POOR SELECTION OF FIXTURES. SYSTEM SHALL INCLUDE ALL APPURTENANCES & BE APPROVED BY OWNER.
- 2. IRRIGATION CONTRACTOR SHALL PROVIDE A METHOD FOR WINTERIZATION. WINTERIZATION SHALL BE PERFORMED BY CONTRACTOR UPON COMPLETION IF SYSTEM IS INSTALLED BETWEEN NOVEMBER 1 AND MARCH 31.

MAINTENANCE

- (MAINTENANCE PERIOD TO COMMENCE AFTER FINAL INSPECTION.)
- 1. MAINTENANCE PERIOD FOR THIS CONTRACT SHALL BE 90 CALENDAR DAYS COMMENCING AFTER FINAL INSPECTION OF CONSTRUCTION.
- 2. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED.
- 3. MAINTAIN LAWNS BY WATERING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
- 4. MAINTAIN THE LANDSCAPING BY KEEPING ALL PLANTS DISEASE-FREE AND PLANTING BEDS GROOMED. EXCEPT IN NATURALLY OCCURRING VEGETATION AREAS.
- 5. REPLACE ANY REQUIRED PLANTING(S), WHICH SEVERELY DECLINE OR DIE AFTER THE DATE OF PLANTING. SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT APPROPRIATE PLANTING SEASON.

SODDING

- 1. SOD SHALL BE FIRST GRADE CERTIFIED BLENDS OF THE FOLLOWING SPECIES PER HARDINESS ZONE CONTAINING NOT MORE THAN 30 PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS.
 - ZONES 3, 4 & 5: APPROVED BLUE GRASS BLEND ZONE 6: APPROVED FESCUE BLEND ZONES 7 & 8: APPROVED BERMUDA BLEND
 - ZONES 9 & 10: APPROVED ST AUGUSTINE FLORATAM BLEND
- 2. SOD SHALL BE RECENTLY MOWED TO A HEIGHT OF NOT LESS THAN 3 INCHES. IT SHALL BE CUT INTO STRIPS OF NOT LESS THAN 3 FEET AND NOT OVER 6 FT. WITH A UNIFORM WIDTH OF NOT OVER 24 INCHES.
- 3. SOD SHALL BE CUT TO A DEPTH EQUAL TO THE GROWTH OF THE FIBROUS ROOTS BUT IN NO CASE LESS THAN 1 INCH.
- 4. SOD SHALL BE DELIVERED TO THE JOB WITHIN 24 HOURS AFTER BEING CUT AND SHALL BE INSTALLED WITHIN 48 HOURS AFTER BEING CUT.
- 5. BEFORE SOD IS PLACED, THE SOD BED WILL HAVE BEEN EXCAVATED TO SUCH A DEPTH THAT WHEN THE SOD IS IN PLACE THE TOP OF THE SOD WILL BE FLUSH WITH THE SURROUNDING GRADE.
- 6. NO SOD SHALL BE PLACED WHEN THE TEMPERATURE IS BELOW 32 DEGREES F. NO FROZEN SOD SHALL BE PLACED NOR SHALL ANY SOD BE PLACED ON FROZEN SOIL. WHEN SOD IS PLACED BETWEEN THE DATES OF JUNE 1ST AND OCTOBER 15TH, IT SHALL BE COVERED IMMEDIATELY WITH A STRAW MULCH 1 INCH THICK (LOOSE MEASUREMENT).
- 7. AFTER LAYING, THE SOD SHALL BE WATERED THOROUGHLY AND TAMPED WITH APPROVED SOD TAMPERS SUFFICIENTLY TO BRING THE SOD INTO CLOSE CONTACT WITH THE SOD BED AND INSURE TIGHT JOINTS BETWEEN THE SECTIONS OR STRIPS.
- 8. THE CONTRACTOR SHALL KEEP ALL SODDED AREAS INCLUDING SUBGRADE, THOROUGHLY MOIST FOR 30 DAYS AFTER SODDING.
- 9. THE CONTRACTOR SHALL REPAIR ANY AREAS DAMAGED FOLLOWING INSTALLATION AS DIRECTED BY THE ENGINEER. SOD SHALL BE IN PLACE AT LEAST 30 DAYS BEFORE FINAL ACCEPTANCE.

SEEDING

- GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE ASSOCIATION OF OFFICIAL SEED ANALYSTS' "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES.
- 2. ALL AREAS TO BE SEEDED SHALL RECEIVE NO LESS THAN FIVE POUNDS OF SEED PER ONE THOUSAND SQUARE FEET. APPLY SEED AND PROTECT WITH STRAW MULCH AS REQUIRED FOR NEW LAWNS. GRASS SEED MIX SHALL CONSIST OF THE FOLLOWING:

| PROPORTION | NAME | MIN.% <u>GERM</u> . | | MAX.% WEED SEED |
|------------|--------------------------------------|------------------------|----|-----------------------|
| 70% | TALL FESCUE (FESTUCA ARUNDINACEA) | 80 | 85 | 0.50 |
| 20% | KENTUCKY BLUEGRASS (POA PRATENSIS) | 85 | 98 | 0.50 |
| 10% | PERENNIAL RYE GRASS (LOLIUM PERENNE) | 90 | 98 | 0.50 |

DETENTION BASIN SEEDING

- . GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE ASSOCIATION OF OFFICIAL SEED ANALYSTS' "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES.
- 2. ALL AREAS TO BE SEEDED SHALL RECEIVE NO LESS THAN FIVE POUNDS OF SEED PER ONE THOUSAND SQUARE FEET. APPLY SEED AND PROTECT WITH STRAW MULCH AS REQUIRED FOR NEW LAWNS. GRASS SEED MIX SHALL CONSIST OF THE FOLLOWING:

MIN % MAY 0/

| PROPORTION | | MIN.% GERM. | | WEED SEED |
|------------|---|----------------|----|--------------|
| 30% | KENTUCKY BLUEGRASS (POA PRATENSIS) | 80 | 85 | 0.50 |
| 40% | KENTUCKY 31 FESCUE (FESTUCA ARUNDINACEA VAR. KY 31) | 85 | 98 | 0.50 |
| 30% | PERENNIAL RYE GRASS (LOLIUM PERENNE) | 90 | 98 | 0.50 |

PLANTING SCHEDULE

1. ALL PLANTING IS RECOMMENDED TO BE DONE WITHIN THE FOLLOWING DATES. WHEN PLANTING OUTSIDE THESE DATES, WRITTEN DOCUMENTATION SHALL BE PROVIDED THAT SURVIVAL OR REPLACEMENT WILL BE ENSURED. NO PLANTING SHALL BE DONE IN FROZEN SOIL.

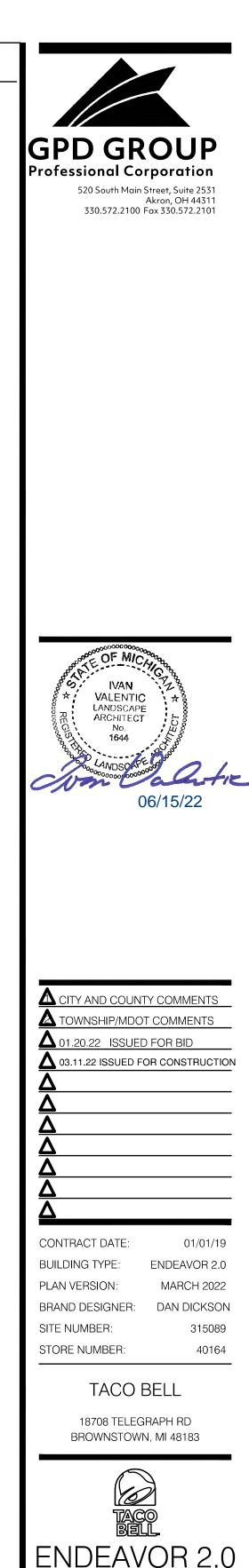
| NORMAL PLANTING SEASONS | SPRING |
|-------------------------|-----------------|
| ALL TREES AND SHRUBS | MARCH 15-MAY 15 |
| EVERGREENS | APRIL 1-MAY 15 |
| GROUNDCOVERS | APRIL 1-JUNE1 |
| SEED AND MULCH | APRIL 1-MAY 15 |

ARCH 15-MAY 15 OCTOBER 1-DECEMBER 1 PRIL 1-MAY 15 OCTOBER 1-NOVEMBER 1

OCTOBER 1-NOVEMBER 15 WHEN SOD IS WORKABLE OCTOBER 1-NOVEMBER 15

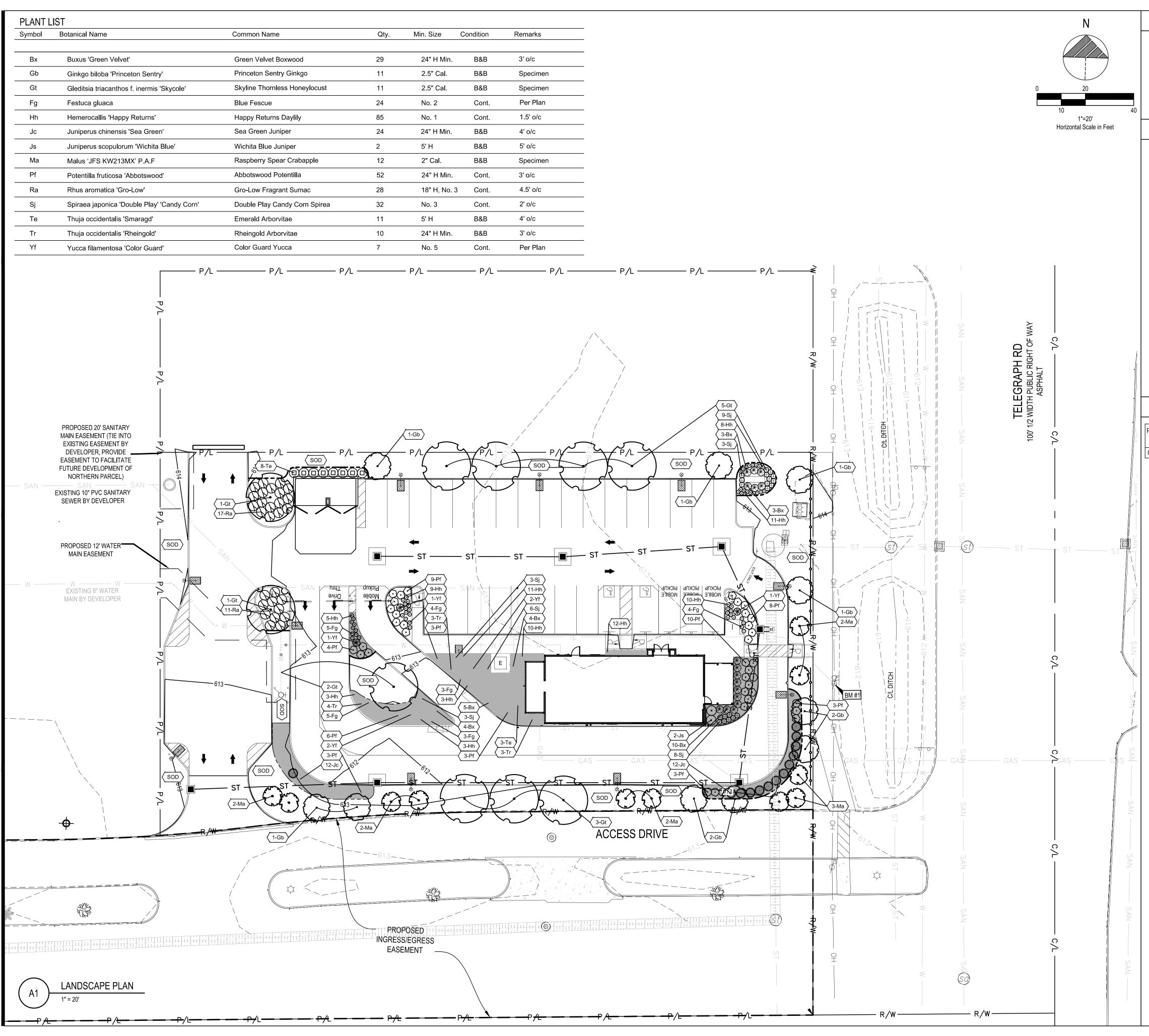
GENERAL NOTE

1. ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE WITHIN THE RIGHT-OF-WAY SHALL BE FINE GRADED TO MAINTAIN POSITIVE DRAINAGE, HAVE A 4" LAYER OF TOPSOIL APPLIED AND BE SEEDED ACCORDING TO SPECIFICATIONS ON THIS SHEET.



LANDSCAPE

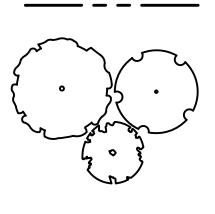
NOTES



LANDSCAPE NOTES

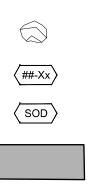
- 1. MULCH PER LANDSCAPE SPECIFICATIONS.
- 2. ALL DISTURBED AREAS NOT TO BE PAVED OR MULCHED SHALL BE SODDED PER SPECIFICATIONS.
- 3. ALL DISTURBED AREAS WITHIN THE R.O.W. NOT TO BE PAVED, SHALL BE SEEDED PER THE SPECIFICATIONS.

LANDSCAPE LEGEND



PROPOSED LANDSCAPE BED EDGE

PROPOSED TREE



PROPOSED LIMESTONE BOULDER, DESERT SAND, 12"-36"

PROPOSED PLANT QUANTITY AND SYMBOL

PROPOSED LAWN AREA

PROPOSED RIVER ROCK MULCH AREA

LANDSCAPE CALCULATIONS

| PARKING LOT LANDSCAPING CALCULATION: 872 SF | | |
|---|----------|--|
| REQUIRED | PROVIDED | |
| 9 | 9 | |
| | | |

| GREENBELT CALCULATION: EAST | | |
|------------------------------|-------------|----------|
| 148 LF | REQUIRED | PROVIDED |
| CANOPY TREES | 4 | 4 |
| ORNAMENTAL TREES | 4 | 4 |
| SHRUBS / FENCE | 24 OR FENCE | FENCE |
| | | |
| GREENBELT CALCULATION: SOUTH | | |
| 270 LF | REQUIRED | PROVIDED |
| CANOPY TREES | 7 | 7 |
| ORNAMENTAL TREES | 7 | 7 |
| SHRUBS | 42 | 42 |





| | T COMMENTS | |
|--|-----------------|--|
| Δ 01.20.22 ISSUE | D FOR BID | |
| A 03.11.22 ISSUED F | OR CONSTRUCTION | |
| Δ | | |
| Δ | | |
| Δ | | |
| Δ | | |
| Δ | | |
| Δ | | |
| Δ | | |
| | | |
| CONTRACT DATE: | 01/01/19 | |
| BUILDING TYPE: | ENDEAVOR 2.0 | |
| PLAN VERSION: | MARCH 2022 | |
| BRAND DESIGNER: | DAN DICKSON | |
| SITE NUMBER: | 315089 | |
| STORE NUMBER: | 40164 | |
| TACO BELL | | |
| 18708 TELEGRAPH RD BROWNSTOWN, MI 48183 | | |

CITY AND COUNTY COMMENTS



LANDSCAPE Plan



