PROJECT DESCRIPTION

THE PROJECT SHALL GENERALLY INCLUDE A CONVENIENCE STORE DEVELOPMENT WITH REGULAR VEHICLE FUELING ISLANDS FRONTING E DIXIE DRIVE AND MANCHESTER ROAD. THE PROJECT SHALL ALSO INCLUDE A NEW RIGHT-IN/RIGHT-OUT ON EASTBOUND DIXIE DRIVE, A NEW SIDEWALK ALONG THE PROJECT'S DIXIE DRIVE FRONTAGE, AND A FULL-ACCESS ENTRANCE ON

ESTIMATED CONSTRUCTION SCHEDULE

START DATE (ESTIMATED): 8/1/2026 BUILDING FOOTERS: 9/7/2026 EXTERIOR SHELL: 11/7/2026 CONSTRUCTION COMPLETE: 1/8/2027 TURNOVER: 2/1/2027 STORE OPEN: 2/8/2027

DAILY CONSTRUCTION HOURS WILL TYPICALLY BE 7AM-5PM OR LATER AS NEEDED ON MONDAY-FRIDAY (AND SATURDAYS AS NEEDED).

PUBLIC UTILITIES

WATER AND SANITARY SEWER SERVICE SHALL BE PROVIDED FROM EXISTING LEADS ALONG THE MANCHESTER ROAD FRONTAGE. WHICH WERE CONSTRUCTED AS PART OF THE RIVER DISTRICT PHASE 1 IMPROVEMENTS. ONSITE STORMWATER RUNOFF SHALL BE COLLECTED BY A NEW STORM SEWER SYSTEM THAT DISCHARGES INTO THE EXISTING REGIONAL RIVER DISTRICT DETENTION BASIN, WHICH WAS DESIGNED TO ACCOMMODATE THE PROPOSED LAND USE ON THE SUBJECT PROPERTY.

BENCH MARKS

ALL BENCH MARKS AND ELEVATIONS SHOWN UPON THIS PLAN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). HORIZONTAL CONTROLS ARE TIED TO GPS OBSERVATIONS USING THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION VRS SYSTEM, BASED ON THE STATE PLANE COORDINATE SYSTEM, OHIO SOUTH ZONE, NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT, ALSO KNOWN AS NAD83-2011.

B.M. #1 WC-5 ALUMINUM MONUMENT SET IN CONCRETE NORTHING = 616077.10EASTING = 1480050.35ELEV = 726.07

B.M. #2 SQUARE NOTCH ON CURB NORTHING = 616069.50EASTING = 1480167.84ELEV = 723.17

B.M. #3 SQUARE NOTCH ON CURB NORTHING = 615785.44EASTING =1480273.35 ELEV = 723.14

UTILITY CONTACTS

WATER, SANITARY, & STORM CITY OF WEST CARROLLTON AES OHIO 1900 DRYDEN RD SERVICE DEPARTMENT 300 E CENTRAL AVE DAYTON, OH 45439 WEST CARROLLTON, OH 45449 ATTN: BRENDA BROCKMAN (937) 859-8280 (937) 331-4925

COMMUNICATION

CENTERPOINT ENERGY 4283 N JAMES H MCGEE BLVD 7201 FAR HILLS AVE DAYTON, OH 45459 DAYTON, OH 45417 ATTN: RANDY CECH / TAYLOR HOOK ATTN: HOWARD LAUDERMILK (937) 296-3588 (937) 440-1830

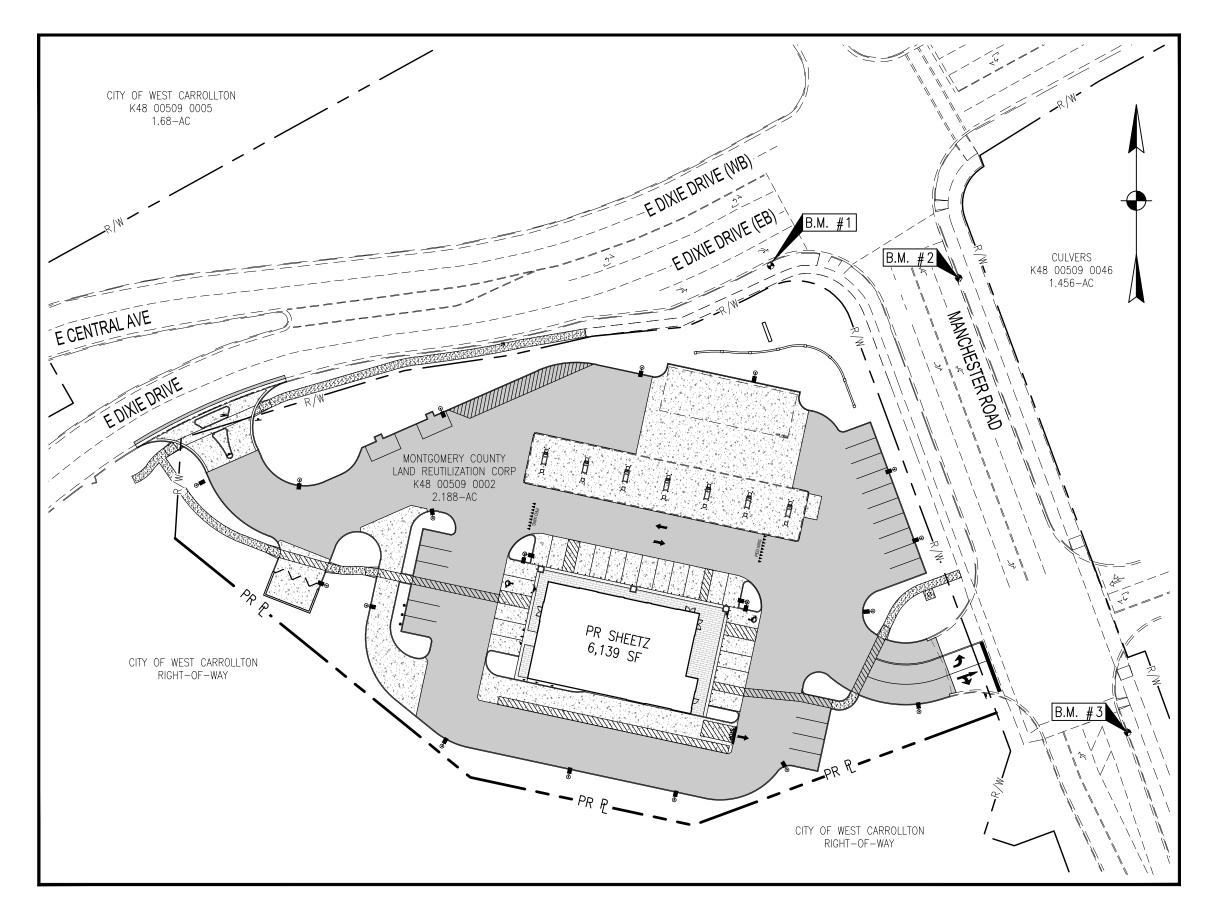
STANDARD CONSTRUCTION DRAWINGS

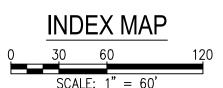
ODOT CB-3A	
ODOT HW-2.1	
ODOT MT-95.31	
ODOT MT-95.50	
ODOT TC-52.10	
MUTCD TA-28	
MUTCD TA-29	
WC MH TYPE A	

SITE IMPROVEMENT PLAN

SHEETZ

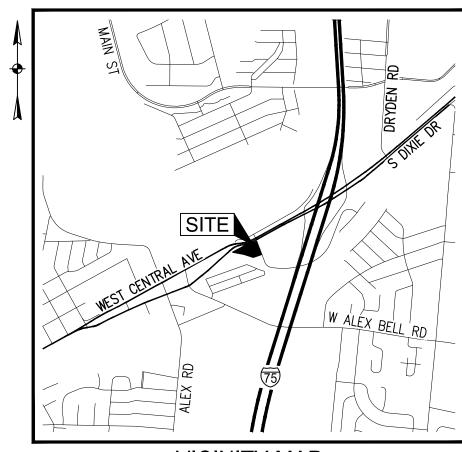
CITY OF WEST CARROLLTON MONTGOMERY COUNTY, OHIO





INDEX OF SHEETS

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LANDSCAPE DETAILS	L101



VICINITY MAP SCALE: 1" = 2,000'

DEVELOPER

SKILKEN GOLD REAL ESTATE DEVELOPMENT 4720 MORSE ROAD COLUMBUS, OH 43230 CONTACT: JONNATHAN AGUDELO EMAIL: JAGUDELO@SKILKENGOLD.COM

DESIGN CONSULTANT

THE MANNIK & SMITH GROUP, INC. 1160 DUBLIN ROAD, SUITE 100 COLUMBUS, OHIO 43215 CONTACT: NICKLAUS FAWVER, PLA PHONE: (614) 441-4222 EMAIL: NFAWVER@MANNIKSMITHGROUP.COM

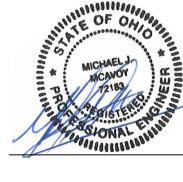
SITE DATA TABLE			
ADDRESS:	1000 E DIXIE DR. WEST CARROLLTON, OH		
PARCEL ID:	K48 00509 0002		
PROPERTY OWNER:	MONTGOMERY COUNTY LAND REUTILIZATION CORP		
ZONING CLASSIFICATION/DISTRICT:	C-C (CITY CENTER)		
MAXIMUM BUILDING HEIGHT ALLOWED:	35'		
PROPOSED BUILDING HEIGHT:	26'		
TOTAL BUILDING AREA:	6,139 SF		
TOTAL SITE AREA:	±2.60 AC (113,478 SF)		
IMPERVIOUS COVERAGE:	±1.83 AC (79,809 SF)		
GREEN SPACE:	±0.77 AC (33,669 SF)		
PARKING LOT LIGHTING:	25' MAX		
FLOOD INSURANCE RATE MAP NUMBER	(FIRM): 39113C0261E		
MOST RECENT EFFECTIVE DATE OF FIR	M: 1/06/2005		
FLOOD ZONE:	ZONE X		

PARKING CALCULATION			
USE	AREA / UNITS	MINIMUM	
SERVICE STATION	1 PER EMPLOYEE + 2 PER SERVICE STALL	8 EMPLOYEES + 14 PUMPS = 22 STALLS	
FAST FOOD RESTAURANT	1 PER 2 CAPACITY	30 SEATS / 2 = 15 STALLS	
CONVENIENCE STORE	5 PER 1,000SF	3,264 SF / 200 = 17 STALLS	
TOTAL REQD. PARKING (ROUNDED UP)		54 STALLS REQUIRED	
REQUIRED LOADING		1 SPACE REQUIRED AND PROVIDED	
PROPOSED PARKING		42 STALLS + 14 AT PUMPS	
REQUIRED STACKING		5 VEHICLES	
PROPOSED STACKING		11 VEHICLES	
REQUIRED ADA PARKING		2 STALLS (INCLUDING 1 VAN)	
PROPOSED ADA PARKING		2 STALLS (INCLUDING 1 VAN)	

ENGINEER OF RECORD



CONTACT: MICHAEL MCAVOY, PE ADDRESS: 1160 DUBLIN ROAD, SUITE 100 614.441.4222 MMCAVOY@MANNIKSMITHGROUP.COM



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SHEETZ 1000 E DIXIE DRIY



GENERAL CONSTRUCTION NOTES:

- 1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS. THE CURRENT CITY OF WEST CARROLLTON STANDARDS AND SPECIFICATIONS TOGETHER WITH THE LATEST VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL GOVERN THE MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS.
- 2. ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL OHIO DEPARTMENT OF TRANSPORTATION STANDARDS.
- 3. WHERE CONFLICT ARISES BETWEEN ALL SPECIFICATIONS (BOOK OR PLAN BASED) INCLUDING CITY REQUIREMENTS, THE MORE STRINGENT SPECIFICATION SHALL PREVAIL.
- 4. DATA ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 AT LEAST 72 HOURS BEFORE START OF WORK AND VERIFY ALL EXISTING UTILITY LOCATIONS.
- 5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD ANY DISCREPANCY REGARDING THE PROPOSED WORK OR UNFORESEEN CONDITIONS ARISE PRIOR TO PROCEEDING FURTHER WITH THE AFFECTED WORK.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS FOR THE PROJECT AND NOTIFYING THE OWNER AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- 7. ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK FOR ALL PUBLIC FACILITIES AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL OF THE CITY OF WEST CARROLLTON ENGINEER.
- 8. THE OWNER AT ITS DISCRETION RESERVES THE RIGHT TO MODIFY THE DETAILS AND STANDARDS OF CONSTRUCTION FOR ALL PRIVATE FACILITIES FROM THAT INDICATED ON THE APPROVED PLAN, PROVIDED THAT THE ALTERNATE STANDARD COMPLIES WITH LOCAL CODE AND/OR UTILITY COMPANY REQUIREMENTS AND THE GENERAL DESIGN INTENT OF THE PROJECT IS NOT COMPROMISED.
- 9. ANY DEFECTS DISCOVERED IN NEW CONSTRUCTION, WORKMANSHIP, EQUIPMENT, OR MATERIALS SHALL BE REPAIRED, OR CORRECTED BY APPROVED METHODS AS DIRECTED BY AND AT NO ADDITIONAL COST TO THE OWNER.
- 10. THE BID PRICES QUOTED SHALL INCLUDE ALL ITEMS OF LABOR, MATERIALS, TOOLS, EQUIPMENT, INSURANCE AND OTHER COSTS NECESSARY TO FULLY COMPLETE THE WORK PURSUANT TO THE CONTRACT DOCUMENTS. IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO PROVIDE AND REQUIRE A COMPLETED WORK PROJECT READY FOR OPERATION. ANY WORK ITEMS OMITTED FROM SUCH CONTRACT DOCUMENTS WHICH ARE CLEARLY NECESSARY FOR THE COMPLETION OF SUCH WORK AND ITS APPURTENANCES SHALL BE CONSIDERED A PART OF SUCH WORK ALTHOUGH NOT DIRECTLY SPECIFIED OR CALLED FOR IN THE CONTRACT DOCUMENTS.
- 11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
- 12. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER AND OWNER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT, AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 13. WHEREVER UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS, THE WORK SHALL BE DISCONTINUED UNTIL THE PROJECT ENGINEER AND OWNER APPROVE THE METHOD AND MATERIALS TO BE INCORPORATED INTO THE
- 14. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OR ITS REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL OR ANY OTHER MATERIAL THAT MAY CREATE A HEALTH RISK IS DISCOVERED ON SITE.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TICKETS SHALL BE REMOVED AND PROPERLY DISPOSED AT THE EXPENSE OF THE CONTRACTOR.
- 16. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS AND PLAN SPECIFICATIONS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 15 WORKING DAYS FOR REVIEW.
- 17. THE CONTRACTOR SHALL PROVIDE AS—BUILT RECORDS OF ALL CONSTRUCTION
 (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER FOLLOWING COMPLETION OF
 CONSTRUCTION ACTIVITIES.
- 18. NO NON-RUBBER TIRE VEHICLES SHALL BE MOVED ON CITY STREETS. THE CITY MAY GRANT EXCEPTIONS WHERE SHORT DISTANCES & SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING, AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE THE SATISFACTION OF THE CITY.
- 19. THE CONTRACTOR SHALL MAINTAIN ACCESS TO MAIL SERVICE AND TRASH COLLECTION WITHIN THE CONSTRUCTION AREA.
- 20. IN THE EVENT THAT IT BECOMES NECESSARY FOR THE CITY TO PERFORM WORK OF AN IMMEDIATE NATURE, SUCH AS THE PLACEMENT OF BARRICADES OR REPLACEMENT OF SIGNS OR OTHER WARNING OR PROTECTIVE DEVICES REQUIRED OF THE CONTRACTOR BY THE CONTRACT BECAUSE OF FAILURE OR REFUSAL OF THE CONTRACTOR TO PERFORM SUCH WORK, THE CONTRACTOR SHALL REIMBURSE THE CITY AT A RATE OF 2.5—TIMES THE ACTUAL COST OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. THE CITY SHALL BE REQUIRED TO NOTIFY OR ATTEMPT TO NOTIFY THE DESIGNATED REPRESENTATIVE OF THE CONTRACTOR OF THE NECESSITY TO PERFORM SUCH WORK. IF THE CONTRACTOR REFUSES OR FAILS WITHIN A REASONABLE TIME TO PERFORM OR CAUSE THE PERFORMANCE OF SUCH WORK, THE CITY SHALL BE REIMBURSED BY THE CONTRACTOR IN THE AMOUNT PROVIDED HEREIN. REASONABLE TIME FOR ALL STREETS INVOLVED ON THIS CONTRACT IS ONE HOUR FROM THE TIME OF NOTIFICATION BY THE CITY.
- 21. WORK ON THIS PROJECT SHALL BE PERFORMED BETWEEN 7:00AM AND 7:00PM MONDAY THROUGH FRIDAY, UNLESS WITH PRIOR WRITTEN PERMISSION FROM THE CITY ENGINEER.

MAINTENANCE OF TRAFFIC NOTES

- 1. ALL WORK WITHIN RIGHT OF WAY TO INCLUDE TRAFFIC CONTROL IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND PER ALL CITY REQUIREMENTS. ROADS MUST REMAIN OPEN AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY LANE CLOSURES WITH THE CITY. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE CITY ENGINEER FOR APPROVAL INDICATING DATES AND DURATION OF EACH CLOSURE.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF PEDESTRIANS AND VEHICLES CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROLLERS IN ACCORDANCE WITH OHIO MUTCD REGULATIONS AND/OR AS REQUIRED OR DIRECTED BY THE PROJECT ENGINEER OR CONSTRUCTION MANAGER OR LOCAL GOVERNING AUTHORITIES. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM ODOT, LOCAL MUNICIPALITY, COUNTY, OR OTHER GOVERNING AUTHORITY IS RECEIVED.
- 3. ANY ADDITIONAL TRAFFIC CONTROL BEYOND THAT SHOWN ON THE PLANS THAT IS REQUESTED OR REQUIRED BY THE CITY WILL BE PROVIDED BY THE CONTRACTOR AT AGREED UNIT PRICES USING CURRENT ODOT STATE AVERAGE PRICES AWARDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY AFFECTED PROPERTY OWNERS
 A MINMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ACCESS TO
 EXISTING PROPERTIES SHALL BE MAINTAINED WITH AT LEAST ONE ACCESS POINT.

EXISTING CONDITIONS AND DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE OWNER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE CONSTRUCTION MANAGER PRIOR TO BIDDING.
- 2. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING. IF CONDITIONS ENCOUNTERED ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY VIA A PRE-BID QUESTION.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL RUBBISH, TRASH, DEBRIS, AND ORGANIC MATERIAL IN A LAWFUL MANNER. ALL DEMOLISHED MATERIALS SHALL BE TAKEN FROM THE SITE IMMEDIATELY (UNLESS OTHERWISE NOTED) AND DISPOSED OFF—SITE IN ACCORDANCE WITH ALL LAWS, REGULATIONS AND ORDINANCES. NO BURNING OF ANY MATERIALS WILL BE ALLOWED ON OR OFF SITE. NO CLEARED OR GRUBBED MATERIAL SHALL BE BURIED OR LEFT
- 5. CONTRACTOR SHALL PERFORM ALL CLEARING, GRUBBING, REMOVAL OF TREES, STUMPS, VEGETATION, AND DEBRIS NECESSARY TO PERFORM THE WORK INDICATED HEREIN. THAT CONTRACTOR SHALL LIMIT LAND DISTURBANCE TO ONLY THAT REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENTS. NO CLEARED OR GRUBBED MATERIAL SHALL BE BURIED OR LEFT ON SITE.
- 6. SHOULD ANY UNCHARTED, OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
- 7. THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED 48 HOURS (2 WORKING DAYS) PRIOR TO THE PRE CONSTRUCTION MEETING. AREAS BEYOND THE LIMITS OF CLEARING AND GRADING SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC.
- 8. ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING, AND/OR ABATEMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY LISTED ON THE PLANS.
- 9. MATERIALS NOTED ON THE PLANS TO BE SALVAGED TO OWNER SHALL BE STORED IN AREAS INDICATED ON THE PLANS, OR TO THE OWNERS SATISFACTION.
 10. USE SUITABLE METHODS TO LIMIT DUST AND DIRT TO ADJACENT STRUCTURES OR PROPERTY. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS
- TO EXISTING CONDITIONS PRIOR TO THE START OF THE DEMOLITION WORK.

 11. THE CONTRACTOR SHALL PROTECT TREES, LANDSCAPING, SITE IMPROVEMENTS, AND OTHER ITEMS NOT SCHEDULED FOR CLEARING, OR THAT MIGHT BE DAMAGED BY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ANY
- ITEMS THAT ARE DAMAGED.

 12. THE BUILDING PAD AREA IS DEFINED AS THE AREA TWENTY (20) FEET OUTSIDE OF THE PROPOSED BUILDING FOOTPRINT, INCLUDING ATTACHED WALKWAYS, CANOPIES,
- SIDEWALKS, LOADING DOCKS, UTILITY PADS, AND ANY OTHER SUCH APPURTENANCES.

 13. ANY AND ALL DAMAGE TO EXISTING PAVEMENT WITHIN THE LAYDOWN AREA SHALL BE REPAIRED.
- 14. ALL UTILITIES NOT MARKED FOR REMOVAL OR RELOCATION SHALL REMAIN INTACT.
 THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE TO EXISTING UTILITIES NOT MARKED FOR REMOVAL OR RELOCATION AT THEIR SOLE EXPENSE.

LAYOUT AND PAVING NOTES

- 1. THE CONTRACTOR SHALL CONFINE THEIR ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHT-OF-WAYS, AND CONSTRUCTION AND PERMANENT EASEMENTS, AND SHALL NOT TRESPASS UPON OTHER PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER.
- 2. THE CONTRACTOR SHALL MAKE THEIR OWN PROVISIONS TO PROVIDE A SITE STAGING AREA AND JOB TRAILER (IF REQUIRED) FOR THE PROJECT IMPROVEMENTS.
- 3. WHERE NECESSARY TO DISTURB PAVEMENTS OR DRIVES, THE PAVEMENT SHALL BE CUT IN NEAT, STRAIGHT LINES. THE DEPTH OF SAW CUT SHALL BE AT LEAST THREE INCHES. COSTS FOR SAW CUTTING SHALL BE INCLUDED IN THE PRICE BID FOR PAVEMENT.
- 4. THE CONTRACTOR SHALL REFERENCE ALL IRON PINS OR MONUMENTS. IF ANY PINS OR MONUMENTS ARE DESTROYED OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR IN THE STATE OF OHIO AT THE COMPLETION OF THE PROJECT.
- 5. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE UNLESS OTHERWISE NOTED.
- 6. ALL CURB RAMPS, SIDEWALKS, AND PARKING AREAS REQUIRED FOR ACCESSIBILITY SHALL SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990. CURB RAMPS SHALL BE ODOT SCD BP 7.1, TYPE A2. DETECTABLE WARNINGS SHALL BE A 24"X48" MAT THAT IS CAST—IN—PLACE AND COLORED COLONIAL RED. SURFACE APPLIED DETECTABLE WARNING PRODUCTS SHALL NOT BE ACCEPTED.
- 7. ALL PAVING MATERIALS FURNISHED AND WORK COMPLETED SHALL BE IN STRICT ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL SUBMIT A JOB—MIX FORMULA FOR THE BITUMINOUS PAVEMENT TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL AT LEAST 14 DAYS PRIOR TO THE PLACEMENT OF BITUMINOUS PAVEMENTS. THE JOB—MIX FORMULA SHALL BE ODOT APPROVED.
- 8. ASPHALT SURFACE COURSE SHALL BE LAID WITH THE DIRECTION OF TRAFFIC FLOW IN ALL DRIVE LANES WITHIN PARKING FIELDS.
- 9. DO NOT PLACE MIX ON FROZEN OR WET SURFACES, OR WHEN PRECIPITATION IS OCCURRING.
- 10. DO NOT PLACE MIX WHEN AIR OR SURFACE TEMPERATURE IS BELOW THE FOLLOWING: BINDER COURSE AND WALKS 40° F WEARING COURSE, ROADWAYS AND PARKING AREAS 50° F
- 11. ANY MATERIAL DELIVERED TO THE SPREADER HAVING A TEMPERATURE LOWER THAN 250° F SHALL NOT BE USED.12. THE MINIMUM ROLLER WEIGHT FOR PAVEMENT SHALL BE TEN (10) TON. ALL
- 12. THE MINIMUM ROLLER WEIGHT FOR PAVEMENT SHALL BE TEN (10) TON. ALL COURSES SHALL BE COMPACTED TO A MINIMUM OF NINETY—THREE (93%) PERCENT OF THEORETICAL MAXIMUM DENSITY (TMD).
- 13. ALL PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO AASHTO AND THE OHIO MUTCD. ALL SIGNS SHALL BE CONSTRUCTED OF FLAT SHEET ALUMINUM IN ACCORDANCE WITH ODOT SPECIFICATIONS. STEEL SIGN POSTS SHALL BE USED AND CONFORM TO ASTM A36 OR ASTM A441 AND SHOULD BE GALVANIZED IN ACCORDANCE WITH AASHTO M111.
- 14. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS. PAVEMENT MARKINGS SHALL BE APPLIED PER MANUFACTURER RECOMMENDATIONS. APPLY PAINT TO CLEAN, DRY SURFACES TO YIELD SHARP DEFINITION OF EDGES. AIR TEMPERATURE 50° F MINIMUM.
- 15. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS. PAVEMENT MARKINGS ON PERMANENT ASPHALT AREAS SHALL BE ITEM 644 THERMOPLASTIC PAVEMENT MARKING, AND PAVEMENT MARKINGS ON TEMPORARY ASPHALT AREAS SHALL BE ITEM 642 TRAFFIC PAINT.
- 16. THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN A METHOD APPROVED BY ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.
- DIRECTIONAL TRAFFIC ARROWS SHALL BE PAINTED WHITE UNLESS OTHERWISE NOTED.
 A MINIMUM CLEARANCE OF 2 FEET SHALL BE MAINTAINED FROM THE FACE OF CURB
- AND ANY PART OF A LIGHT POLE OR TRAFFIC SIGN.

 19. CONTRACTOR SHALL SAW-CUT IN A NEAT, STRAIGHT LINE FOR SMOOTH TRANSITIONS AT TIE-INS TO EXISTING EDGES OF PAVEMENT AND AT COLD JOINTS OF RECENTLY PAVED PAVEMENT.
- 20. JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOL.

- 21. CONTRACTOR SHALL SAWCUT TIE-INS AT EXISTING CURBS TO ENSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAWCUT AND TRANSITION TO EXISTING PAVEMENT TO ENSURE POSITIVE DRAINAGE.
- 22. ALL CONCRETE SHALL BE AN ODOT APPROVED JOB-MIX FORMULA QC 1 WITH A 28
- DAY STRENGTH OF 4,000 PSI MINIMUM.

 23. ALL SIDEWALKS SHALL HAVE A LIGHT BROOM FINISH. VERTICAL FACES SHALL BE
- 24. BASE AND ASPHALT THICKNESS SPECIFIED ARE THE MINIMUM REQUIRED.

 25. ALL CURB RADII ARE 4', UNLESS OTHERWISE NOTED. FOR CURBED ISLANDS SHOWN WITH ONE LABELED RADIUS. THE LABELED RADIUS SHALL APPLY TO ALL FOUR.
- WITH ONE LABELED RADIUS, THE LABELED RADIUS SHALL APPLY TO ALL FOUR CORNERS OF THE ISLAND.

 26. ALL CONCRETE FOR CURBS SHALL BE AIR ENTRAINED TO BE 6% (+/-1½%), MADE WITH SAND AND GRAVEL AGGREGATE AND SHALL CONFORM TO A TWENTY EIGHT
- (28) DAY STRENGTH OF 4,500 PSI MINIMUM, SHALL HAVE A MAXIMUM W/C OF 0.40 AND 130 LBS/LF.
 27. CONTRACTOR SHALL INSTALL ALL CURBING IN A TRUE LINE AND PROPER GRADE IN ACCORDANCE WITH THE APPROVED SITE PLANS AND APPROPRIATE STATE DOT
- SPECIFICATIONS. CURVED CURB SECTIONS SHALL BE USED FOR RADII LESS THAN 30'. ALL CURBING SHALL BE BACKFILLED WITH CLEAN AGGREGATE.

 28. CONTRACTOR SHALL REPAIR ANY CURB DAMAGED DURING CONSTRUCTION ACTIVITIES.
- 29. ALL CURBS SHALL BE FULL DEPTH CONCRETE CURB WITH 6" REVEAL, UNLESS OTHERWISE NOTED.
- 30. BUILDING FOOTPRINTS ARE SHOWN FOR INTENT ONLY. SEE STRUCTURAL AND ARCHITECTURAL PLANS FOR BUILDING FOUNDATION AND WALL DIMENSIONS.
- 31. CONTRACTOR TO COORDINATE TRANSFORMER AND GENERATOR PAD DIMENSIONS AND SPECIFICATIONS WITH MEP PLANS AND ELECTRIC PROVIDER PRIOR TO CONSTRUCTION.
 32. SEE ARCHITECTURAL PLANS FOR FROST SLAB DETAILS AND SPECIFICATIONS.
- 33. CONTRACTOR TO INSTALL ALL UTILITY PIPING, SEWERS, CONDUIT PRIOR TO PAVING OPERATIONS. CONTRACTOR TO COORDINATE ALL SITE UTILITIES WITH UTILITY PLAN, AND MEP PLANS.

GENERAL GRADING & DRAINAGE NOTES

- PROPOSED ELEVATIONS SHOWN SHALL NOT BE CHANGED WITHOUT APPROVAL OF THE CITY ENGINEERING DEPARTMENT AND THE CONSTRUCTION MANAGER.
- 2. ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS. GRANULAR BACKFILL SHALL BE MAINTAINED TO A NEAT, CLEAN STANDARD AT ALL TIMES.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING.
 MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND COVERS, CATCH BASIN GRATES, VALVE BOXES, ETC., TO BE RAISED OR LOWERED, TO PROPOSED FINISHED GRADE, FLUSH WITH THE ADJACENT GRADE.
- 5. UNDERDRAINS MAY BE ADDED, IF DETERMINED NECESSARY BY THE ENGINEER OR CONSTRUCTION MANAGER, AFTER SUBGRADE IS ROUGH GRADED.
- 6. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND NOTES.
- 7. THE CONTRACTOR SHALL COMPACT FILL IN 8" MAXIMUM LIFTS UNDER ALL PARKING, BUILDING, AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- 8. THE CONTRACTOR SHALL BE ADVISED THAT ALL EXCAVATION IS CONSIDERED UNCLASSIFIED AND THAT IT SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF—SITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL UNABLE TO BE PLACED ON SITE AND THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE JOB.
- 9. SITE GRADING SHALL BE PERFORMED TO PROVIDE POSITIVE DRAINAGE TO CATCH BASINS AND TO PRECLUDE THE PONDING OF WATER ON SITE.
- 10. THE CONTRACTOR SHALL VERIFY REQUIRED SPOT ELEVATIONS/GRADING IN THE VICINITY OF THE BUILDINGS WITH THE ARCHITECTURAL PLANS.
- 11. SPOT ELEVATIONS SHOWN DEPICT THE PROPOSED PAVEMENT OR GROUND SURFACE OR PAVEMENT ELEVATION AT FACE OF CURB, UNLESS OTHERWISE NOTED. TOP OF ALL CONCRETE CURBING IS 6-INCHES ABOVE SPOT ELEVATIONS UNLESS OTHERWISE NOTED.
- 12. IT IS THE CONTRACTORS OBLIGATION AND RESPONSIBILITY TO CONFIRM/CONCUR WITH THE EXISTING GRADES SHOWN HEREIN. THE CONTRACTOR MUST CONFIRM ALL EXISTING GRADES PRIOR TO ANY/ALL EXCAVATION.
- 13. THE CONTRACTOR MUST DOCUMENT EXISTING GRADE DISPUTES BY PROVISION OF A TOPOGRAPHIC SURVEY BY A STATE OF OHIO REGISTERED PROFESSIONAL SURVEYOR, PRIOR TO ANY EARTH DISTURBING ACTIVITIES. IN THE ABSENCE OF THE PROVISION OF TOPOGRAPHIC SURVEY BY THE CONTRACTOR, THE GRADES SHOWN HEREON WILL BE THE "TOPOGRAPHY OF RECORD" FOR ANY AND ALL SOIL VOLUME DISPUTES.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL IMPORT/EXPORT NECESSARY TO ACHIEVE THE PROPOSED GRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL STATE AND LOCAL REQUIREMENTS ASSOCIATED WITH IMPORTING SOIL FROM ANOTHER SITE.
- 15. ALL PROPOSED SLOPES 3:1 OR STEEPER AND ALL EARTHEN DRAINAGE WAYS SHALL
- RECEIVE JUTE OR EXCELSIOR MATTING AS PER ODOT 671 TYPE F.

 16. ALL EXCAVATION UNDER OR NEAR EXISTING OR FUTURE PAVEMENT (INCLUDING SIDEWALKS), SUBJECT TO SETTLEMENT, WILL BE BACK FILLED WITH PREMIUM BACKFILL AS DEFINED HEREIN. AT QUESTIONABLE AREAS THE DECISION OF THE ENGINEER, OR THEIR REPRESENTATIVE, WILL PREVAIL.
- 17. PAVEMENT EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH ITEM 203 OF OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. THE CONTRACTOR MAY BE REQUIRED TO MAKE COMPACTION TESTS. TESTS SHALL BE TAKEN BY A TESTING COMPANY APPROVED BY THE ENGINEER. THE COST OF THESE TESTS SHALL BE PAID BY THE CONTRACTOR. "PROOF" ROLLING WILL BE REQUIRED PRIOR TO PAVING AND SHALL BE CONDUCTED PRIOR TO PLACEMENT OF AGGREGATE BASE AND PERFORMED WITH THE OWNER'S INSPECTOR PRESENT AND PAID FOR BY THE

GENERAL UTILITY NOTES:

CONTRACTOR.

- 1. THE CONTRACTOR SHALL NOTIFY THE CITY OF WEST CARROLLTON WATER & SEWER DEPARTMENT AT LEAST THREE WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WATER AND/OR SEWER CONSTRUCTION.
- 2. THE CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS, ELECTRICAL AND TELECOMMUNICATIONS CONDUIT, AND GAS LINES SHOWN ON THESE PLANS WITH THE ARCHITECTURAL AND M.E.P. PLANS PRIOR TO START OF CONSTRUCTION.
- 3. IN THE EVENT OF CONFLICT OF ANY REQUIREMENTS OR PROVISIONS OF THE WORK INDICATED HEREON, THE SITE ENGINEER SHALL BE NOTIFIED FOR A DETERMINATION OF THE PLAN REQUIREMENTS AND INTENT THEREOF.
- 4. PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY COMPANY, LOCAL MUNICIPALITY, AND LOCAL COUNTY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET.
- 5. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE SEWERS CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.

- 6. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATIONS AND CONNECTIONS AND MAIN AND SERVICE RELOCATIONS. THE CONTRACTOR SHALL COORDINATE THE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SHALL SECURE ALL PERMITS AND PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION, AS NECESSARY.
- 7. THE CONTRACTOR SHALL ARRANGE FOR COORDINATE TEMPORARY UTILITY OUTAGES WITH APPLICABLE UTILITY COMPANY AND CITY AND NOTIFY NEIGHBORING EFFECTED OWNERS NO LESS THAN 72 HOURS PRIOR TO PLANNED OUTAGE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS REQUIRED TO PERFORM ALL THE WORK. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- 8. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, LOCAL MUNICIPALITY AND/OR UTILITY COMPANY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY OR PERMANENT SERVICE HAS BEEN PROVIDED.
- 9. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
- 10. RELOCATION OF ANY UTILITY COMPANY FACILITIES TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY AND LOCAL MUNICIPALITY.
- 11. ALL WATER MAINS, WATER SERVICES AND SANITARY SEWER LATERALS SHALL CONFORM TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY, APPLICABLE COUNTY AND LOCAL DEPARTMENTS, AND APPROPRIATE UTILITY COMPANY SPECIFICATIONS.
- 12. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
- 13. ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT AND REPLACED IN ACCORDANCE WITH THE PAVEMENT REPAIR REQUIREMENTS OF LOCAL MUNICIPALITY AND THE DETAILS CONTAINED HEREIN.
- 14. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 15. SANITARY LATERAL AND STORM SEWERS SHALL MAINTAIN 10-FOOT MIN. HORIZONTAL AND 1.5-FOOT MIN. VERTICAL SEPARATION DISTANCE FROM WATER LINES. A 1-FOOT MIN. VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UTILITIES INCLUDING GAS, ELECTRICAL AND TELEPHONE. ADDITIONAL PROTECTION MEASURES INCLUDING, BUT NOT LIMITED TO, CONCRETE PIPE ENCASEMENT MAY BE REQUIRED IF INDICATED CLEARANCES ARE NOT MET.
- 16. THE CONTRACTOR SHALL COMPACT PIPE BACKFILL IN MAX. 8" LOOSE LIFTS TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557, ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED IN AREAS OF ROCK EXCAVATION.
- 17. CONTRACTOR TO PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS.
- 18. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING/CANOPY STUB-OUTS, INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
- 19. UTILITY CONDUIT PIPE SHALL BE SCHEDULE 80 PVC AND/OR AS REQUIRED BY THE LOCAL UTILITY COMPANY. SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 12" CLEAR SPACE BETWEEN SERVICES. MINIMUM COVER SHALL BE 36" ON ELECTRIC CONDUITS AND 24" ON TELEPHONE AND CABLE CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE. GALVANIZED STEEL ELECTRICAL CONDUIT SHALL BE USED AT POLE AND TRANSFORMER LOCATIONS. INSTALL HAND HOLES AS REQUIRED.
- 20. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO APPROVAL FOR BACKFILL, IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY, LOCAL MUNICIPALITY, AND/OR LOCAL COUNTY REQUIREMENTS.
- 21. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE FRAMES AND COVERS, CATCH BASIN GRATES, VALVE BOXES, ETC., TO BE RAISED OR LOWERED, TO PROPOSED FINISHED GRADE, FLUSH WITH THE ADJACENT GRADE. ALL TOP OF CASTING ELEVATIONS SHOWN IN THE PLANS FOR CURB INLETS ARE AT THE TOP OF GRATE.
- 22. THE CONTRACTOR MAY SUBSTITUTE MASONRY STRUCTURES FOR PRECAST STRUCTURES IF APPROVED BY THE CONSTRUCTION MANAGER AND IF ALLOWED BY THE CITY AND/OR COUNTY ENGINEERS.
 23. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF WATER
- MAINS & SERVICES TO A POINT 5' OUTSIDE OF EACH BUILDING. THE INDIVIDUAL BUILDING CONTRACTORS SHALL BE RESPONSIBLE FOR ALL CONNECTIONS TO INTERIOR PLUMBING.
- 24. CONTRACTOR TO REFERENCE SITE ELECTRICAL PLAN FOR LOCATION OF ELECTRIC CONDUIT FOR ALL SITE ELECTRICAL WORK.25. CONTRACTOR TO REFERENCE MEP SITE PLAN FOR ALL ELECTRICAL AND
- COMMUNICATION CONDUIT RUNS PRIOR TO START OF CONSTRUCTION.

 26. ALL UTILITIES SHALL BE CONSTRUCTED, INSPECTED, AND TESTED IN ACCORDANCE WITH CITY STANDARDS AND REGULATIONS. THE CITY ENGINEERING DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE FOR SCHEDULING OF AN
- 27. CONTRACTOR TO INSTALL SHORING AND/OR TEMPORARY STRUCTURES TO PROVIDE SUPPORT TO ANY AND ALL EXISTING AFFECTED UTILITIES PER UTILITY PROVIDER'S MINIMUM STANDARDS.

STORM UTILITY NOTES

- 1. NORTHINGS AND EASTINGS FOR CATCH BASINS, AREA DRAINS, AND MANHOLES GIVEN IN SITE PLANS ARE UNDERSTOOD TO REPRESENT THE CENTER OF THE INLET STRUCTURE. COORDINATES AT CURB INLETS ARE TO BE AT THE FACE OF CURB. HEADWALL COORDINATES ARE AT THE FACE.
- 2. ALL CATCH BASINS/MANHOLES, UNLESS STATED OTHERWISE IN STRUCTURE SCHEDULE SHALL BE AS FOLLOWS OR APPROVED EQUAL:
- 2.1. <u>CURB INLETS:</u> EAST JORDAN IRON WORKS 7045 WITH TYPE M1 SINUSOIDAL GRATE AND 7050 T1 BACK. ALL CATCH BASINS SHOWN ADJACENT TO CURBS ARE TO BE CURB INLETS.
- 2.2. <u>CATCH BASINS IN CONCRETE PAVEMENT:</u> EAST JORDAN IRON WORKS 5110 WITH TYPE M3 HEAVY DUTY SINUSOIDAL GRATE.
- 2.3. <u>CATCH BASINS IN ASPHALT PAVEMENT:</u> EAST JORDAN IRON WORKS 5100 WITH TYPE M1 5105 GRATE.
 2.4. <u>CATCH BASINS IN GRASS:</u> EAST JORDAN IRON WORKS 6500 BEEHIVE DITCH
- 2.5. <u>SANITARY SEWER MANHOLE:</u> EAST JORDAN IRON WORKS 1040 HEAVY DUTY CASTING AND COVER WITH TYPE A SOLID COVER WITH "SANITARY SEWER" ON COVER.

- 3. ALL STORM SEWER PIPES SHALL BE HDPE OR CONCRETE UNLESS STATED OTHERWISE ON THE PLANS. ROOF DRAIN PIPES 8-INCHES IN DIAMETER OR SMALLER MAY BE
- 3.1. HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER PIPE SHALL HAVE A SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS: AASHTO M252, TYPE S FOR 4-INCH THROUGH 10-INCH PIPE, AASHTO M294, TYPE S FOR 12-INCH THROUGH 36-INCH PIPE, ASTM F2306 FOR 12-INCH THROUGH 60-INCH PIPE, OR ASTM F2648 FOR 4-INCH THROUGH 60" PIPE. JOINTS SHALL BE SILT-TIGHT BELL AND SPIGOT CONNECTIONS. HDPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL, ASTM D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- 3.2. RE-INFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-76; ALL RCP SHALL BE CLASS IV UNLESS OTHERWISE SHOWN. JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-443.
- 3.3. POLY VINYL CHLORIDE (PVC) PIPE FOR STORM SHALL HAVE BUILT—IN RUBBER GASKET JOINTS. PVC PIPE SHALL CONFORM TO ASTM D3034 SDR35 WITH COMPRESSION JOINTS AND APPROPRIATE FITTINGS. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL, ASTM D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- 4. ALL STORM SEWERS, INLET BASINS AND MANHOLES SHALL BE CLEANED PRIOR TO ACCEPTANCE.

SANITARY UTILITY NOTES

- 1. THE LOCATION, SIZE, AND DEPTH OF THE EXISTING SANITARY LATERAL OR MAIN SHALL BE VERIFIED IN THE FIELD IN THE PRESENCE OF THE CITY INSPECTOR. THE SLOPE OF THE LATERAL TO THE BUILDING WILL THEN BE DETERMINED. THE CITY MUST APPROVE THE TYPE AND LOCATION OF ANY CONNECTION PRIOR TO INSTALLATION. THE EXISTING SANITARY LATERAL SHALL BE TELEVISED PRIOR TO INSTALLATION OF ANY SANITARY SEWER SYSTEM COMPONENTS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IS THE EXISTING LATERAL IS NOT FOUND TO BE IN GOOD CONDITION.
- 2. SANITARY LATERAL SHALL BE A MINIMUM 6" DIAMETER OF PVC PIPE, ASTM D3034 SDR 26 WITH RUBBER GASKET JOINTS OR APPROVED EQUAL. LATERALS SHALL BE CONSTRUCTED WITH A MINIMUM 1% SLOPE, AND HAVE A MINIMUM OF 3 FT. COVER. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL, ASTM D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- 3. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- 4. MANHOLE SECTION AND CONSTRUCTION SHALL CONFORM TO ASTM C-478.
 5. THE CONTRACTOR SHALL TEST FLEXIBLE PIPING FOR DEFLECTION THAT PREVENTS
- DIAMETER. DEFLECTION OF 5% SHALL NOT BE EXCEEDED.

 6. THE CONTRACTOR SHALL TEST SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PERFORM AIR TESTS ON SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH UNI—B—6. TEST PLASTIC GRAVITY SEWER PIPING ACCORDING TO

PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 95 PERCENT OF PIPING

- ASTM F 1417 AND CONCRETE GRAVITY SEWER PIPING ACCORDING TO ASTM C-924.

 7. THE CONTRACTOR SHALL PERFORM HYDRAULIC TEST IN MANHOLES ACCORDING TO
- 8. SANITARY SERVICE PIPE UP TO SHALL BE SDR 35 PVC PIPE CONFORMING TO ASTM D3034 AND ASTM D1784. PVC FITTINGS SHALL BE SDR 35 AND GASKETED IN ACCORDANCE WITH ASTM D3034. PVC SEWER JOINTS SHALL BE BELL AND SPIGOT TYPE CONFORMING TO ASTM D3212 WITH GASKETS CONFORMING TO ASTM F477.

OHIO EPA NOTES

- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- 2. A TEN FOOT MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER.
- 3. AN 18 INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT CLEAR) WILL BE
- MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER AT ALL CROSSINGS.

 4. A TEN FOOT MINIMUM HORIZONTAL SEPARATION (OUT—TO—OUT CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER.
- 5. AN 18 INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER AT ALL CROSSINGS. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.

SITE MAINTENANCE & RESTORATION NOTES

- 1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY EROSION, POLLUTION, AND DUST CONTROL MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT. REFERENCE THE SWPPP PLAN, NOTES AND DETAILS.
- 2. MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS, OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AT THE END OF EACH WORK DAY, OR AS REQUIRED DURING THE WORK DAY.

4. ALL DISTURBANCE INCURRED TO CITY OR STATE PROPERTY DUE TO CONSTRUCTION

- 3. ALL ROAD SURFACES, EASEMENTS, OR RIGHT-OF-WAY DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS ARE TO BE RESTORED ACCORDING TO THE CITY REQUIREMENTS.
- SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE CITY, LOCAL, AND/OR STATE DOT.

 5. THE CONTRACTOR SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL

CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER, LOCAL

MUNICIPALITY, AND STATE.

6. FINAL CLEANUP: THE CONTRACTOR SHALL CLEAN—UP ALL DEBRIS AND MATERIALS RESULTING FROM CONSTRUCTION AND SHALL RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE GOVERNMENTAL AND REGULATORY AGENCIES.

 1160 DUBLIN ROAD
 NO.
 DATE
 BY
 DESCRIPTION

 SUITE 100
 COLUMBUS, OH 43215
 COLUMBUS, OH 43215
 COLUMBUS, OH 43215

 TEL: 614,441,4222
 FAX: 888.488.7340
 COLUMBUS, OH 43215

 PROJECT DATE: 10/21/2025
 COLUMBUS, OH 43215
 COLUMBUS, OH 43215

 PROJECT NO: 2500474
 COLUMBUS, OH 43215
 COLUMBUS, OH 43215

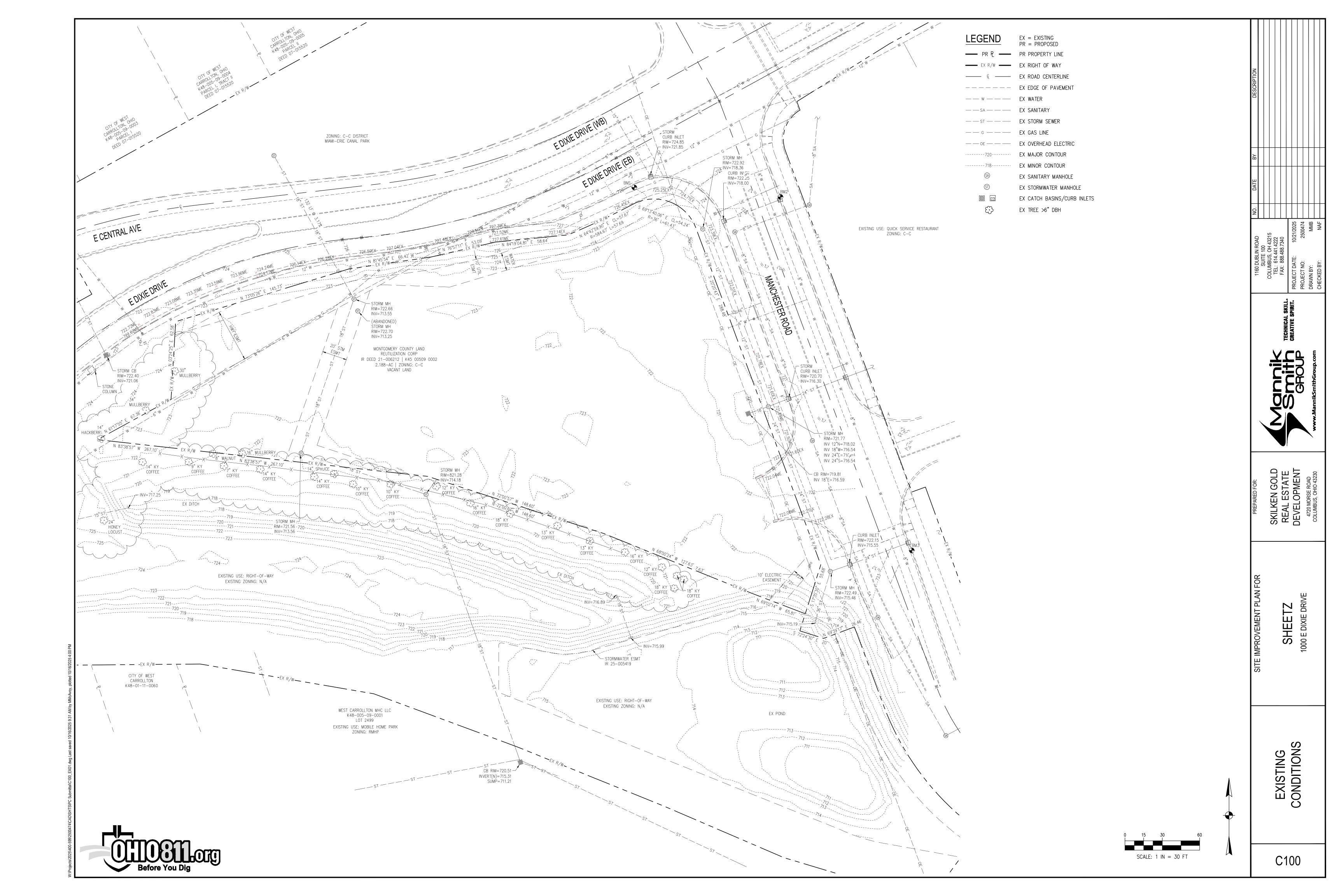
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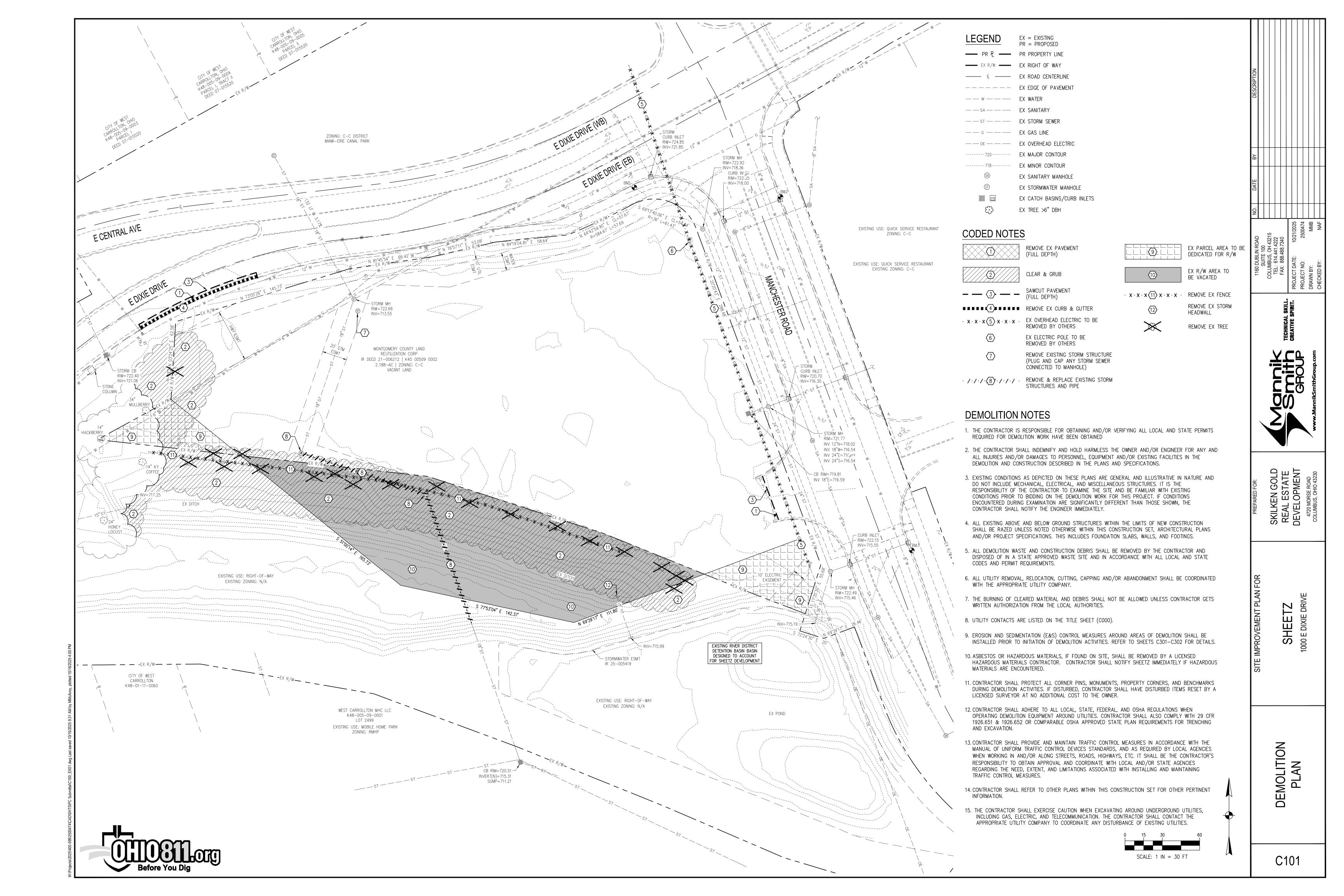
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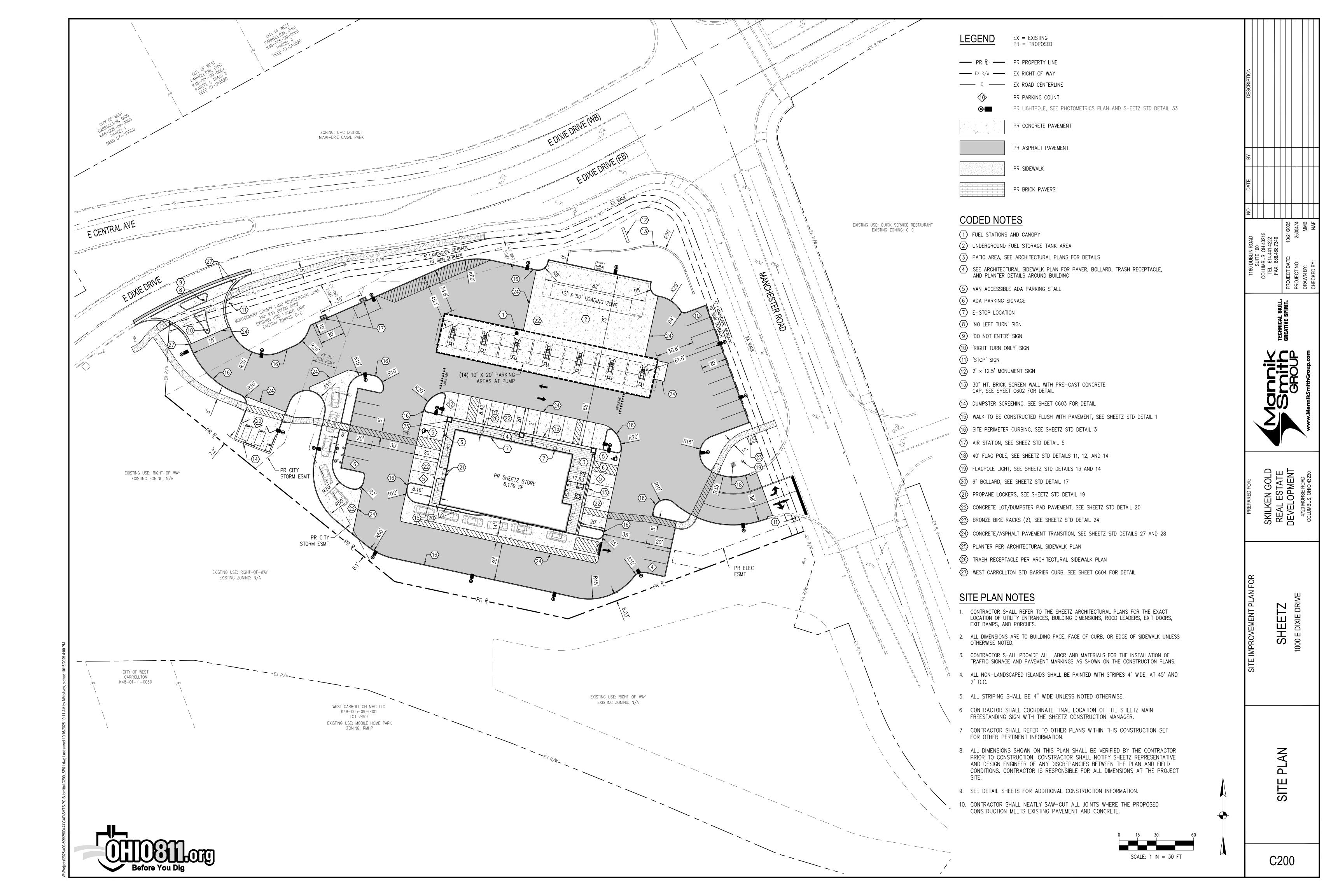
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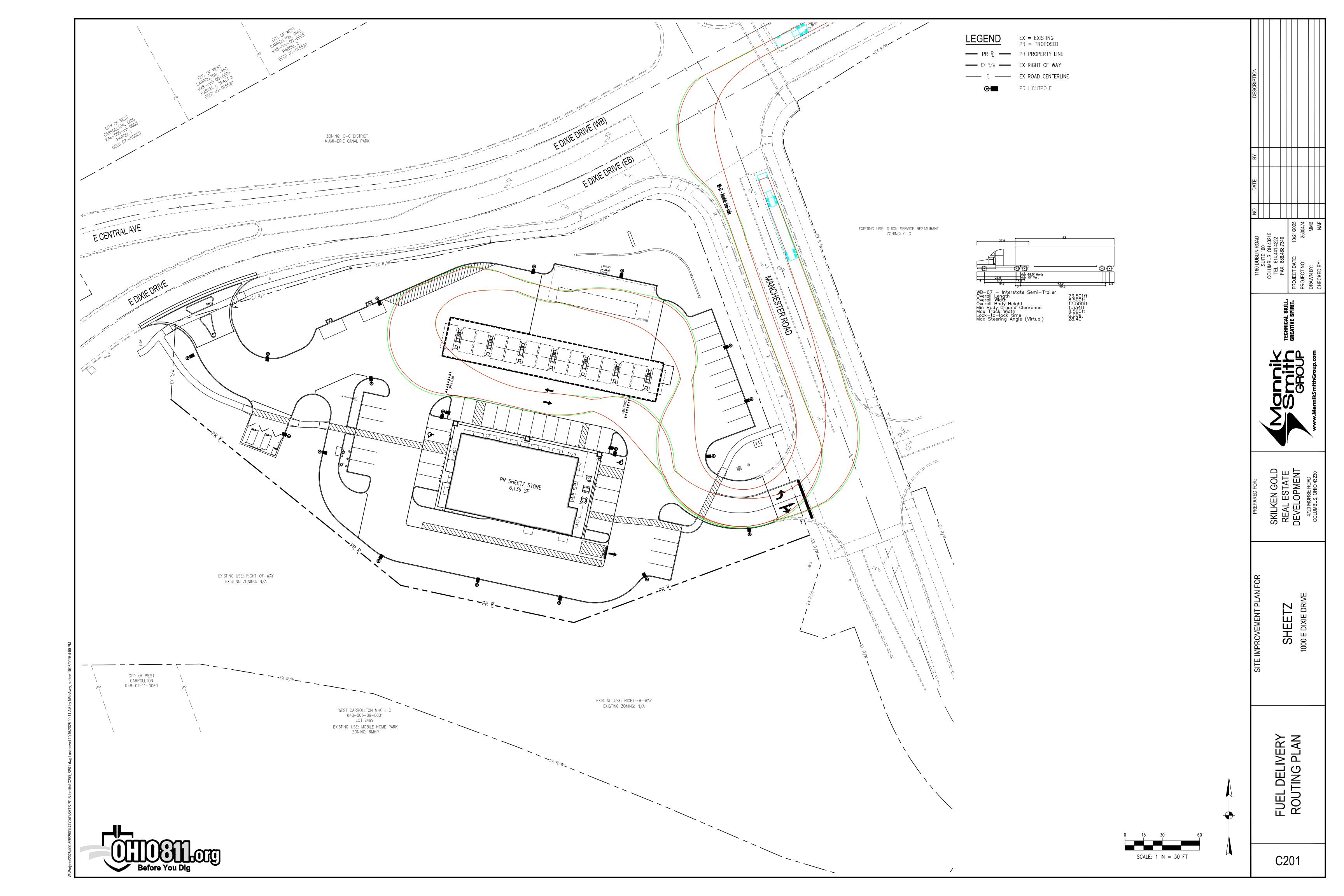
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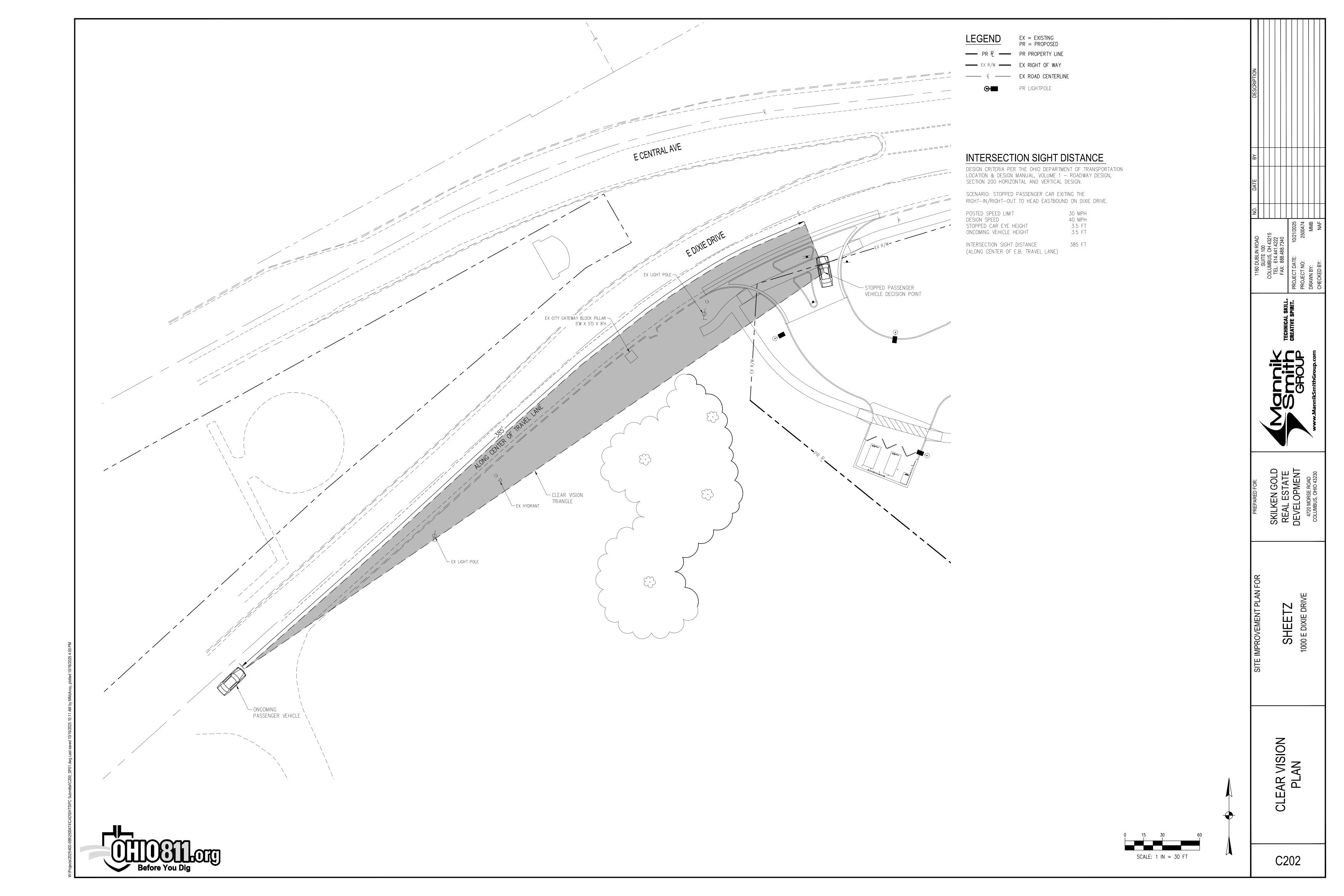
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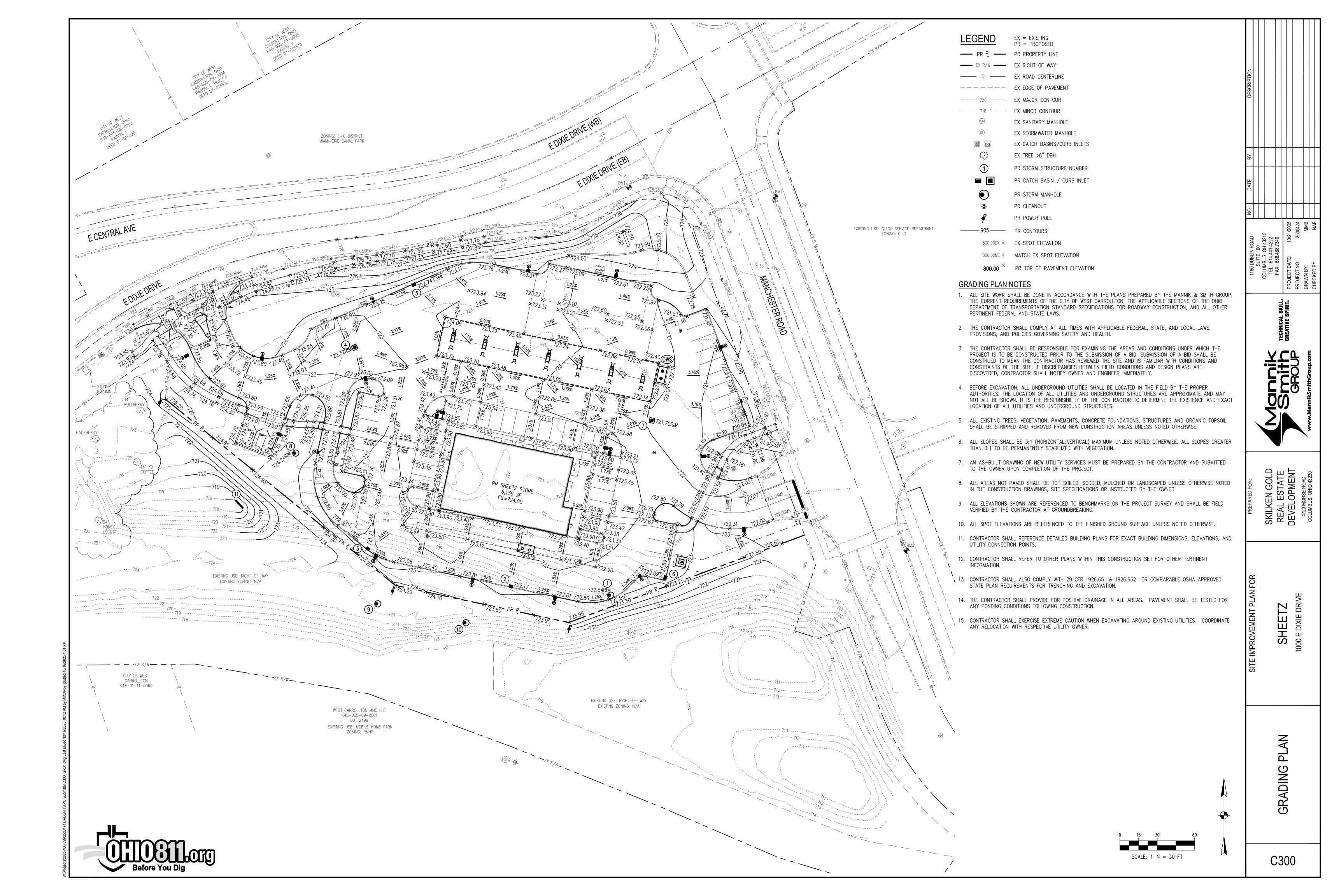


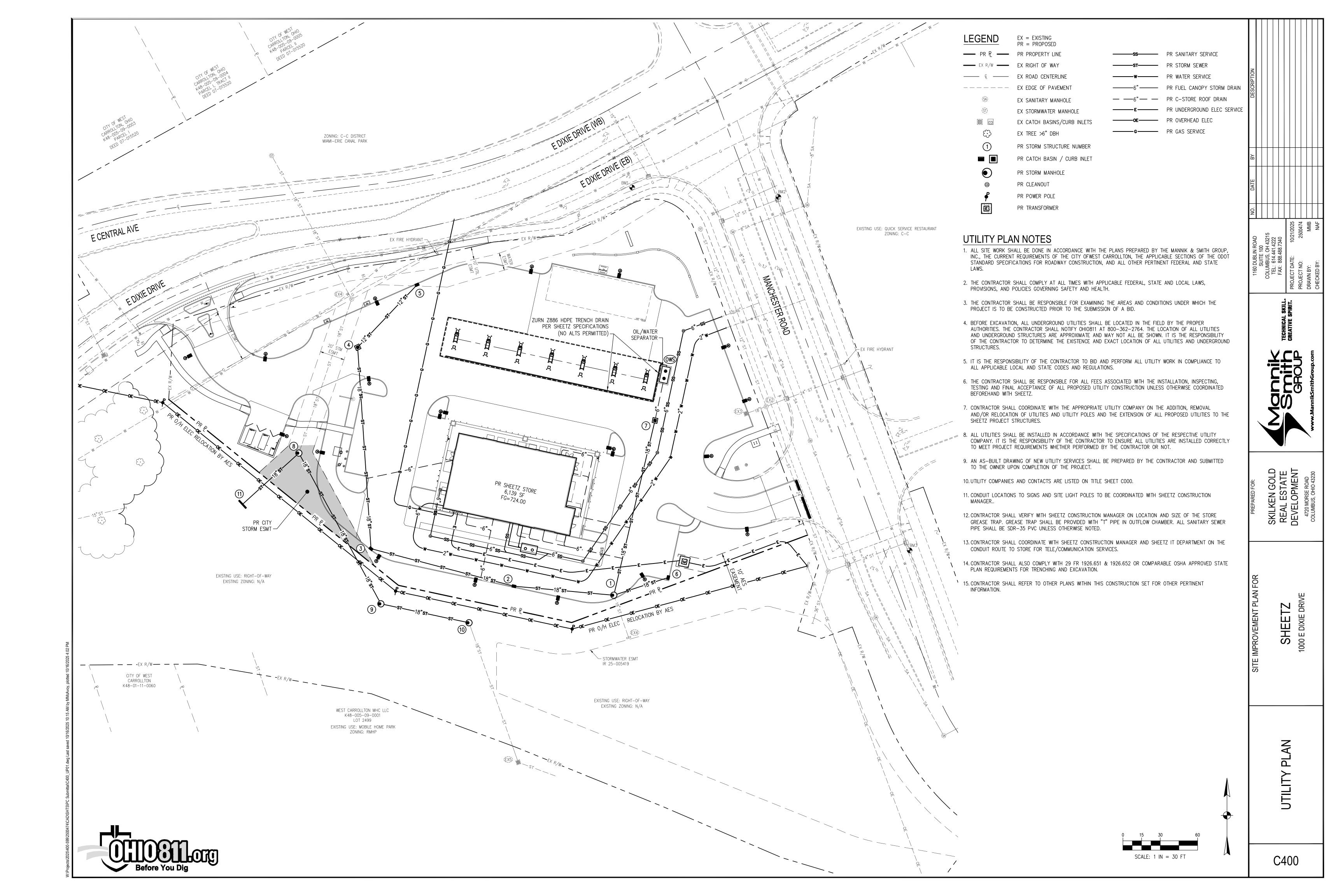


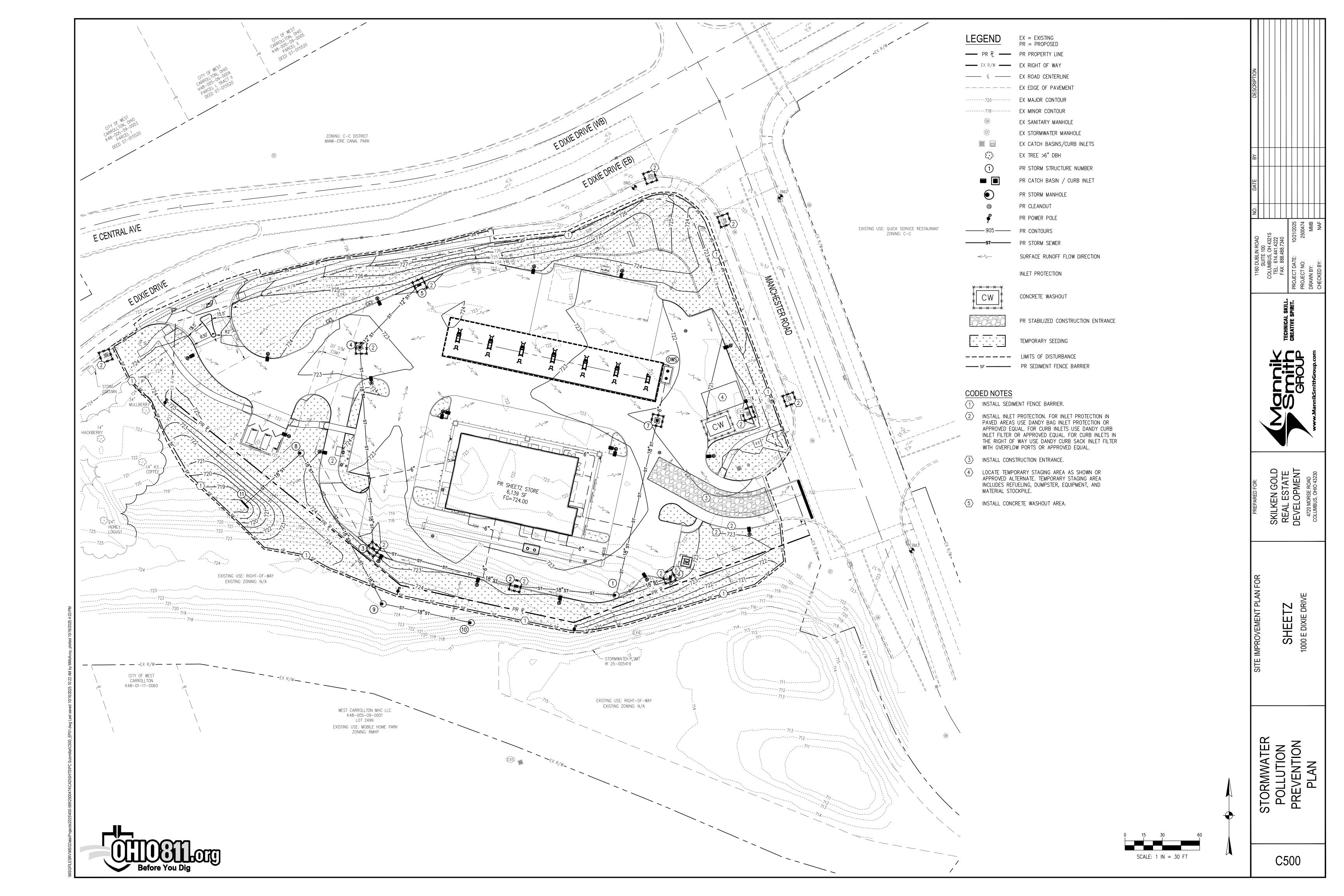












CITE NIADDATI\/E

	SITE NARRATIVE
PLAN DESIGNER:	THE MANNIK & SMITH GROUP, INC. 1160 DUBLIN ROAD, SUITE 100 COLUMBUS, OHIO 43215 CONTACT: MICHAEL MCAVOY, PE PHONE: (614) 441-4222 EMAIL: MMCAVOY@MANNIKSMITHGROUP.COM
PROJECT DESCRIPTION:	SHEETZ CONVENIENCE STORE WITH DRIVE—THRU AND REGULAR VEHICLE FUELING ISLANDS. STORM RUNOFF WILL DISCHARGE TO RIVER DISTRICT PHASE 1 DETENTION BASIN, WHICH WAS SIZED FOR THIS DEVELOPMENT.
ADJACENT AREAS:	THE SITE IS BOUNDED BY E DIXIE AVENUE (NORTH & WEST), A CITY RIGHT-OF-WAY (SOUTH), AND MANCHESTER ROAD RIGHT-OF-WAY (EAST).
PROJECT SITE AREA:	SITE AREA: TOTAL DISTURBED AREA: PRE-DEVELOPED IMPERVIOUS AREA / %: POST-DEVELOPED IMPERVIOUS AREA / %: 1.75 AC / 67.3% 1.78 AC / 68.4%
RUNOFF COEFFICIENTS:	PRE-DEVELOPED: 0.75 (MAJORITY OF SITE COMPACTED GRAVEL) POST-DEVELOPED: 0.65 (CONVENIENCE STORE W/GREENSPACE))
EXISTING SITE CONDITIONS:	THE PRIVATE PROPERTY AREAS OF THE SITE ARE VACANT AND PRIMARILY COVERED IN COMPACTED GRAVEL. LIMITED ACCESS RIGHT-OF-WAY AREAS ARE PRIMARILY GRASS AND TREE COVERED.
SOILS:	FOX-URBAN LAND COMPLEX (FuB), 2 TO 6% SLOPES ROSS-URBAN LAND COPMLED (Rt) UDORTHENTS (Ud)
RECEIVING STREAM/ SURFACE WATER:	SURFACE RUNOFF FROM THE SITE DRAINS TO THE RIVER DISTRICT PHASE 1 DETENTION BASIN AND CITY MS4 BEFORE DISCHARGING INTO THE GREAT MIAMI RIVER.
EROSION AND SEDIMENT CONTROL MEASURES:	SEDIMENT FENCE AND INLET PROTECTION SHALL BE USED AS SHOWN ON THE SWPPP. THE DRAINAGE AREA GOING TO EACH STORM INLET PROTECTION IS LESS THAN < 1.0—ACRE, SO A TEMPORARY SEDIMENT BASIN WITH A RISER AND SKIMMER IS NOT REQUIRED. ROAD AND BASIN SLOPES GREATER THAN 4—FT IN OVERALL HEIGHT SHALL REQUIRE EROSION CONTROL MATTING AS SHOWN ON THE SWPPP.
PERMANENT STABILIZATION:	THE SITE WILL BE STABILIZED BY USE OF SEEDING OR SODDING IN GRASS AREAS.
POST-CONSTRUCTION STORM WATER MANAGEMENT:	RIVER DISTRICT PHASE 1 DETENTION BASIN, WHICH WAS SIZED FOR THE PROPOSED DEVELOPMENT.
CONSTRUCTION SEQUENCE:	 ESTABLISH A DESIGNATED CONSTRUCTION ENTRANCE/EXIT INSTALL PERIMETER SEDIMENT FENCE INSTALL TEMPORARY SEDIMENT CONTROL MEASURES CLEAR THE EXISTING VEGETATION AND COMMENCE ROUGH GRADING INSTALL PERMANENT STORM SEWER AND INLET PROTECTION CONSTRUCT CURBS, PARKING, AND DRIVES BACKFILL CURBS, FINE GRADE, AND STABILIZE DISTURBED AREAS INSTALL REMAINING UTILITIES AND SEWERS UPON PERMANENT STABILIZATION OF THE SITE, CONTACT THE CITY OF WEST CARROLLTON TO REQUEST A SITE ASSESSMENT PRIOR TO REMOVING TEMPORARY SEDIMENT CONTROL MEASURES REMOVE SEDIMENT FENCE

EROSION CONTROL GENERAL NOTES:

IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE SEDIMENTATION AND EROSION CONTROL FEATURES ON THIS PROJECT. ANY SEDIMENT OR DEBRIS WHICH HAS REDUCED THE EFFICIENCY OF A CONTROL SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.

NOT ALL EROSION CONTROL MEASURES SHOWN WILL BE IN USE AT THE SAME TIME. PHASING SHALL BE DETERMINED BY THE CONTRACTOR AND EROSION CONTROL DEVICES SHALL BE MODIFIED

STREET CLEANING (ON AND AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING, AND, IF NECESSARY, MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA

STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING

STREAM IS A VIOLATION OF OHIO EPA AND CITY OF WEST CARROLLTON REGULATIONS. THE

CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES. OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT-THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.

ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF WEST CARROLLTON AND/OR THE OEPA.

TEMPORARY AND PERMANENT SEEDING

THE LIMITS OF SEEDING AND MULCHING ARE ASSUMED TO BE 5'-0" OUTSIDE THE WORK LIMITS. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

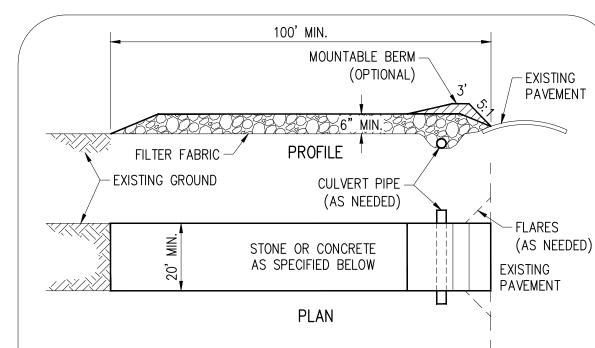
TEMPORARY SEEDING: ANY AREA WHICH WILL BE LEFT DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS SHALL BE SEEDED WITHIN 7 DAYS OF TERMINATED WORK. DISTURBED AREAS WITHIN 50 FEET OF A STREAM, FIRST ORDER OR LARGER, SHALL BE STABILIZED WITHIN 2 DAYS OF INACTIVITY. TEMPORARY SEEDING CONSISTS OF SEEDBED PREPARATION AND APPLICATION OF SEED, FERTILIZER, AND WATER. SOIL TEST IS RECOMMENDED TO DETERMINE PROPER APPLICATION RATE OF FERTILIZER AND IF LIME IS NECESSARY.

FERTILIZER: 12-12-12	12 LB / 1000 SQ. FT.
STRAW MULCH	2 TONS / ACRE
WATER	300 GAL. / 1000 SQ. FT.

TEMPORARY SEEDING			
SEEDING DATES	SPECIES	LB/1000 SQ. FT.	PER ACRE
MARCH 1 TO NOVEMBER 1	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
NOVEMBER 1 TO MARCH 1 USE MULCH ONLY, SODDING PRACTICES, OR DORMANT SEEDING			
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			

PERMANENT SEEDING: ANY AREA THAT IS AT FINAL GRADE SHALL BE SEEDED WITHIN 7 DAYS OF TERMINATED WORK. PERMANENT SEEDING CONSISTS OF SEEDBED PREPARATION AND APPLICATION OF SEED, FERTILIZER, AND WATER. SOIL TEST IS RECOMMENDED TO DETERMINE PROPER APPLICATION RATE OF FERTILIZER AND IF LIME IS NECESSARY. IDEAL CONDITIONS FOR PERMANENT SEEDING IS MARCH 1-MAY 31 AND AUGUST 1-SEPTEMBER 30.

PERMANENT SEEDING			
SEED MIX	SEEDING RATE		NOTES
	LB / ACRE	LB/1000 SQ. FT.	NOTES
	GENE	RAL USE	
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20 - 40 10 - 20 10 - 20	1/2 - 1 1/4 - 1/2 1/4 - 1/2	
TALL FESCUE	40	1	
DWARF FESCUE	40	1	
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			



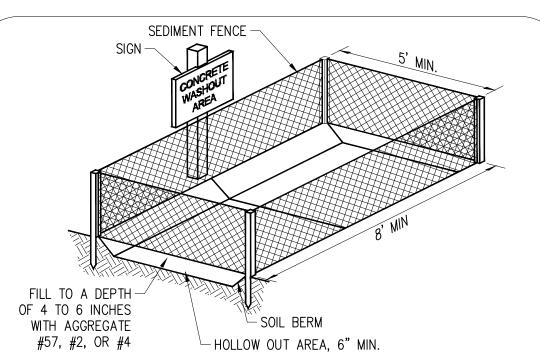
CONSTRUCTION SPECIFICATIONS:

STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

- 2. LENGTH A MINIMUM OF 100'
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWENTY (20) FEET MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. FILTER FABRIC WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES SHALL BE PERMITTED. COST OF PIPE SHALL BE INCLUDED IN THE PRICE BID FOR THE STABILIZED CONSTRUCTION ENTRANCE.
- . MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PROTECT THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

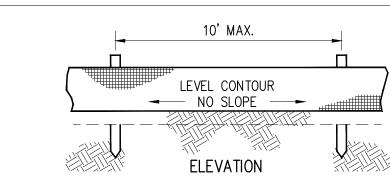
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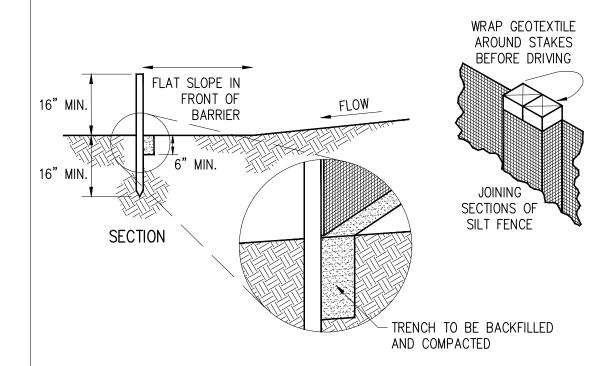


- . CONCRETE TRUCKS SHALL UTILIZE AREAS TO WASH OUT TRUCK CHUTES. 2. ACCUMULATED CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. 3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF WEST CARROLLTON.
- 4. STRAW BALES ARE NOT PERMITTED IN THE CONCRETE WASHOUT AREA. 5. THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE
- ON-SITE PROJECT ENGINEER/CONTACT.

CONCRETE WASHOUT AREA

NOT TO SCALE





SPECIFICATIONS FOR SILT FENCE:

- 1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS. 2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- 3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- 4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- 5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH.
- THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC. 9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.
- 10. MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1)THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2)ACCUMULATED SEDIMENT
- SHALL BE REMOVED, OR 3)OTHER PRACTICES SHALL BE INSTALLED. SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE—HALF OF THE HEIGHT OF THE SILT FENCE.
- SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

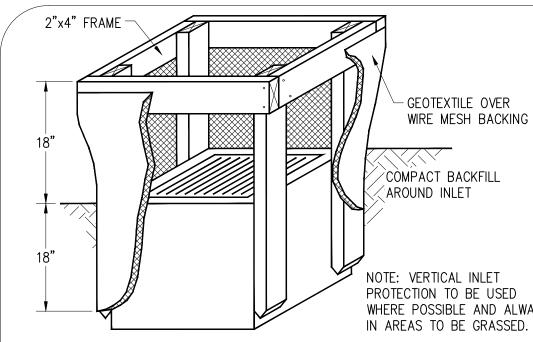
- 1. FENCE POST THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE. THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
- 2. SILT FENCE FABRIC SEE CHART BELOW.

SEL PENCE PADRIC SEE CHART BELOW.				
FABRIC PROPERTIES	VALUES	TEST METHOD		
Minimum Tensile Strength	120 lbs (535 N)	ASTM D 4632		
Maximum Elongation at 60 lbs	50%	ASTM D 4632		
Minimum Puncture Strength	50 lbs (220 N)	ASTM D 4833		
Minimum Tear Strength	40 lbs (180 N)	ASTM D 4533		
Apparent Opening Size	0.84 mm	ASTM D 4751		
Minimum Permittivity	$1 \times 10^{-2} \text{ sec}^{-1}$	ASTM D 4491		
UV Exposure Strength Retention	70%	ASTM G 4355		

* NOTE: THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE IN LINEAR INSTALLATIONS, AND MUST HAVE A MINIMUM 12-INCH DIAMETER.

SEDIMENT FENCE BARRIER

NOT TO SCALE



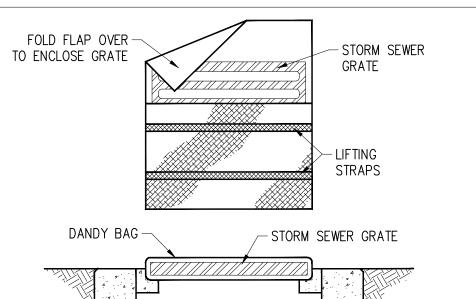
CONSTRUCTION SPECIFICATIONS:

- 1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
- 2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- 3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH CONSTRUCTION GRADE LUMBER. THE 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-INCH BY 4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD
- 4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- 5. GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES. 7. A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION. THE TOP OF THE DIKE SHALL BE

AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE

FILTER FABRIC INLET PROTECTION NOT TO SCALE

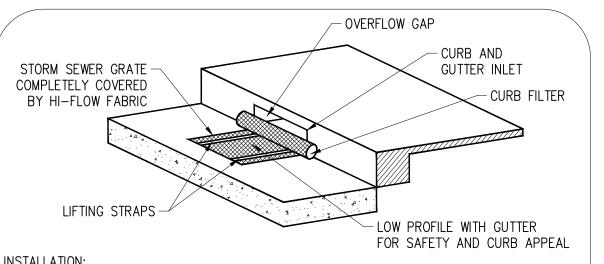


INSTALLATION: STAND GRATE ON END. PLACE DANDY BAG OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK IN FLAP. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY. HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO THE CATCH BASIN FRAME SO THAT THE RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.

USING A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL, REMOVE SILT AND OTHER DEBRIS

OFF SURFACE AFTER EACH EVENT.

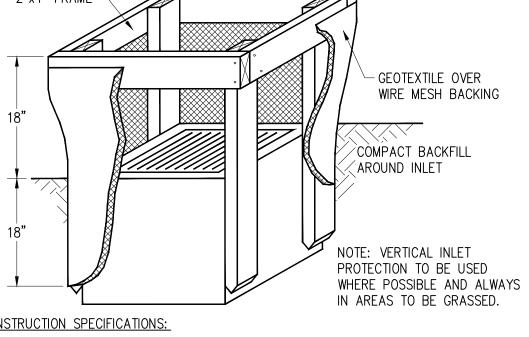
INLET PROTECTION - DANDY BAG™ NOT TO SCALE



STAND GRATE ON END. SLIDE THE DANDY CURB BAG ON WITH DAM ON TOP OF THE GRATE. PULL ALL EXCESS DOWN. LAY UNIT ON ITS SIDE. CAREFULLY TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER. INSTALL THE UNIT MAKING SURE FRONT EDGE OF GRATE IS INSERTED IN FRAME FIRST THEN LOWER BACK INTO PLACE. PRESS VELCRO DOTS TOGETHER WHICH ARE LOCATED UNDER LIFTING STRAPS. THIS INSURES STRAPS REMAIN FLUSH WITH GUTTER.

USING A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH

DANDY CURB BAG" NOT TO SCALE





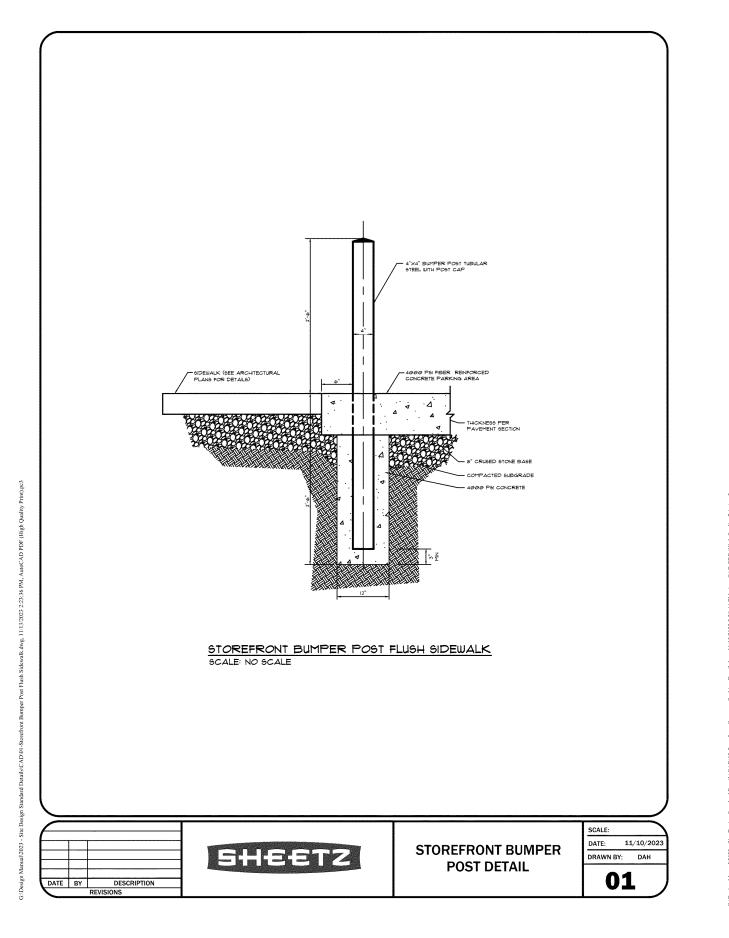
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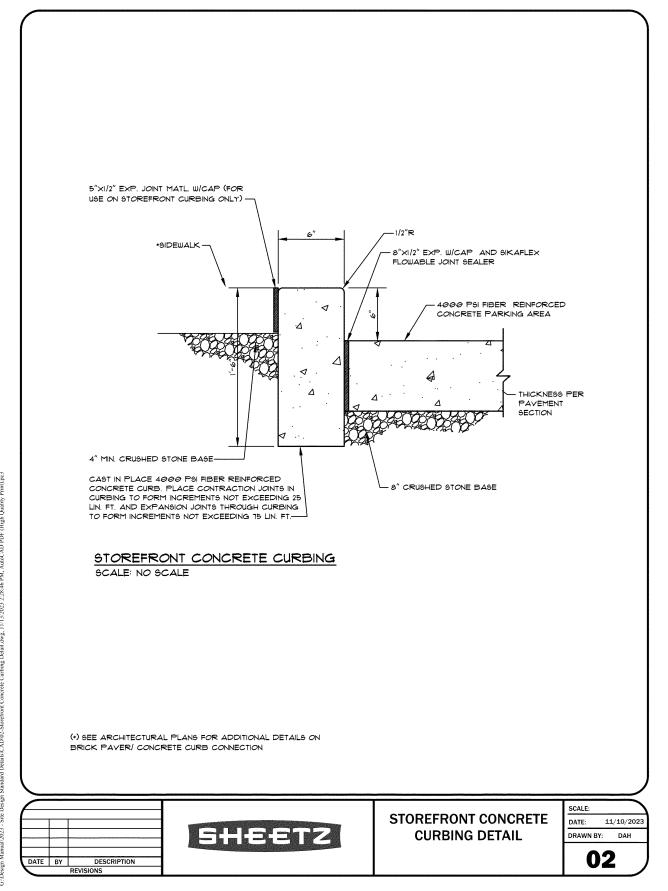
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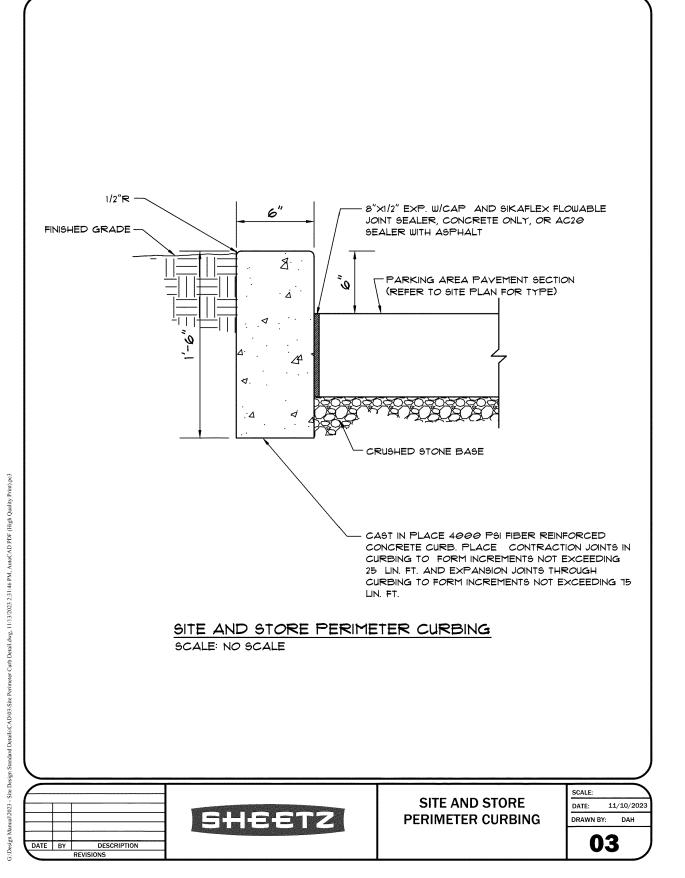
FORMWATER
POLLUTION
REVENTION
FES & DETAILS

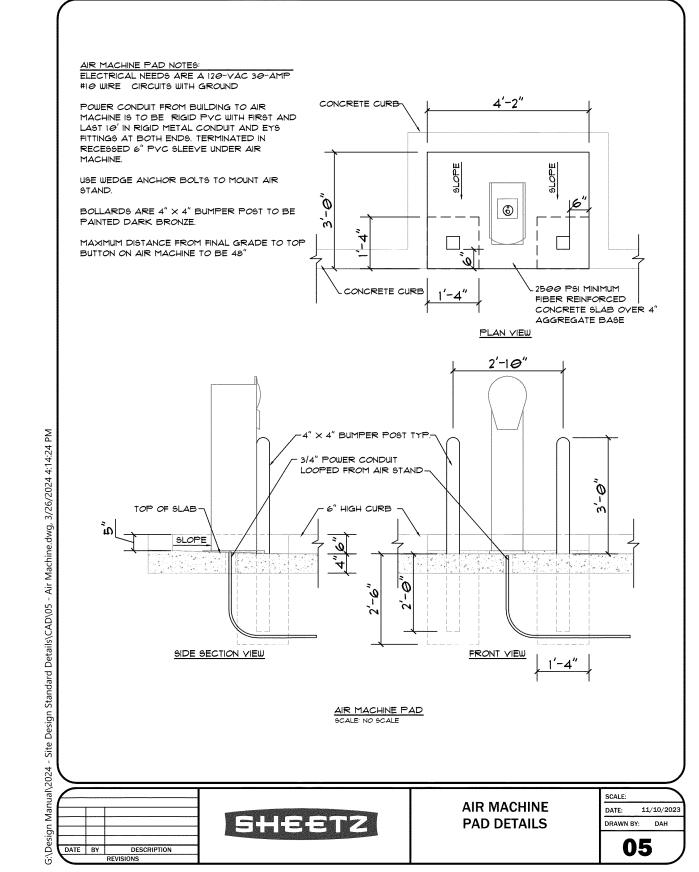
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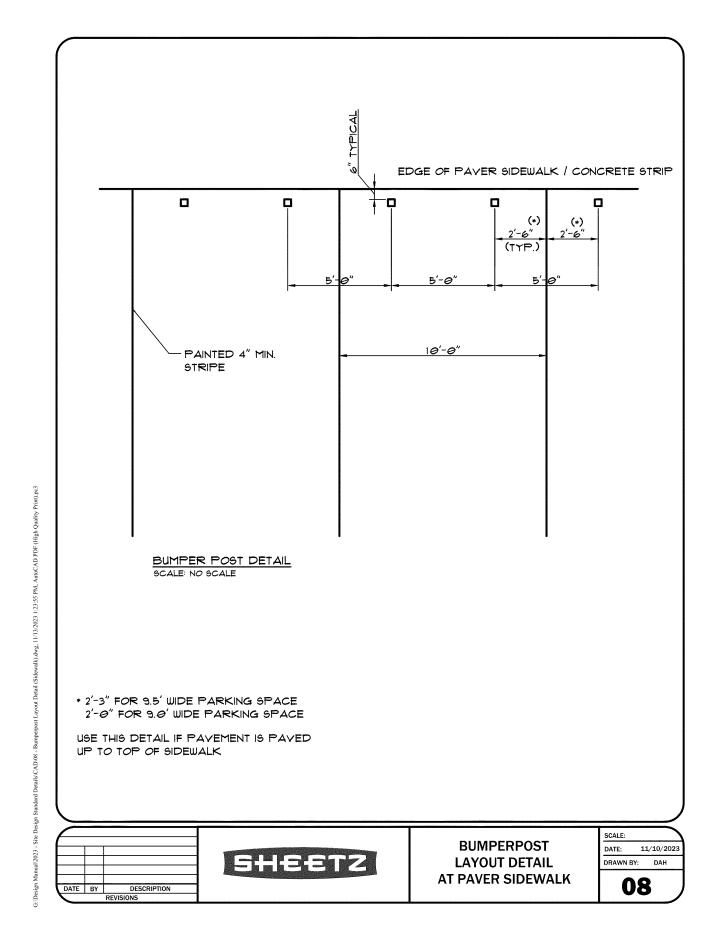


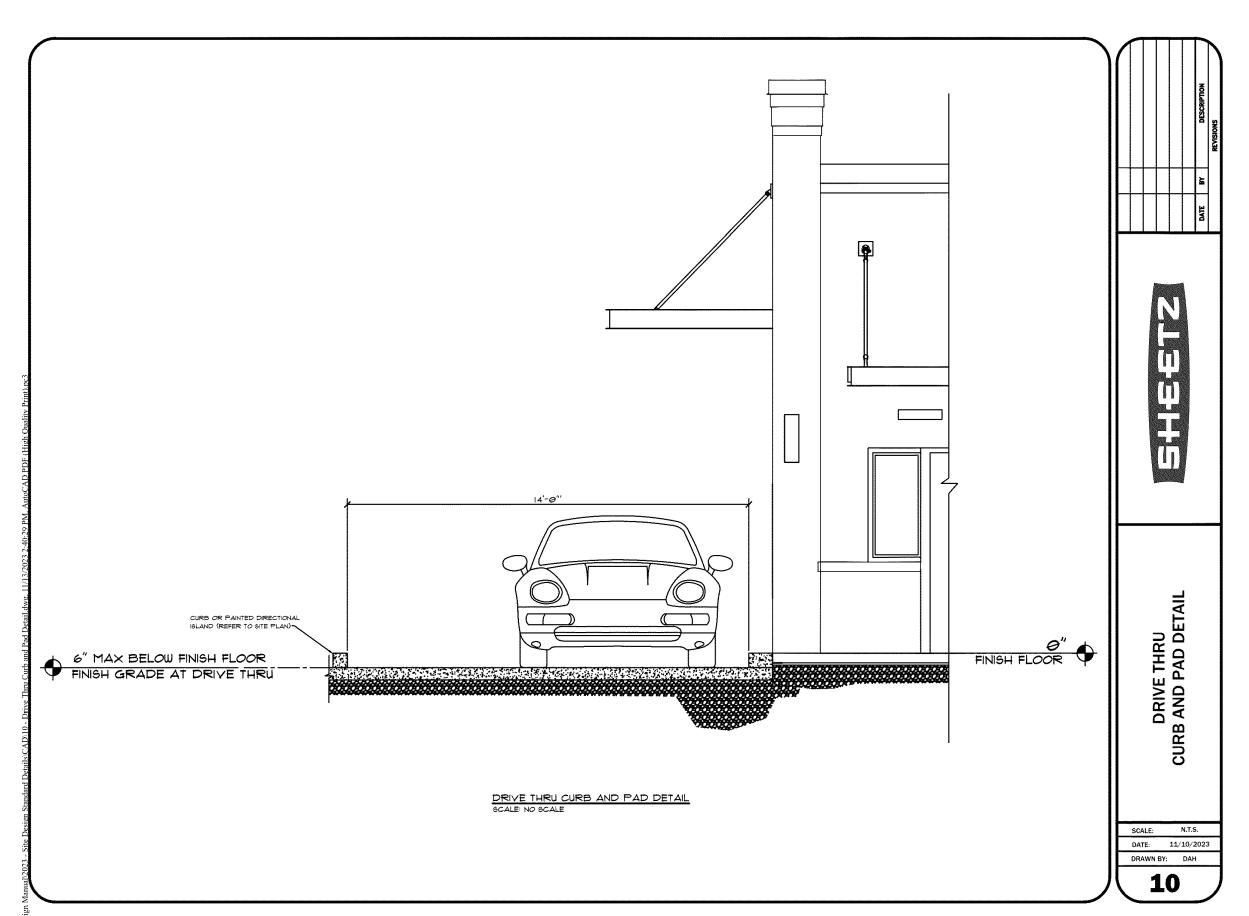


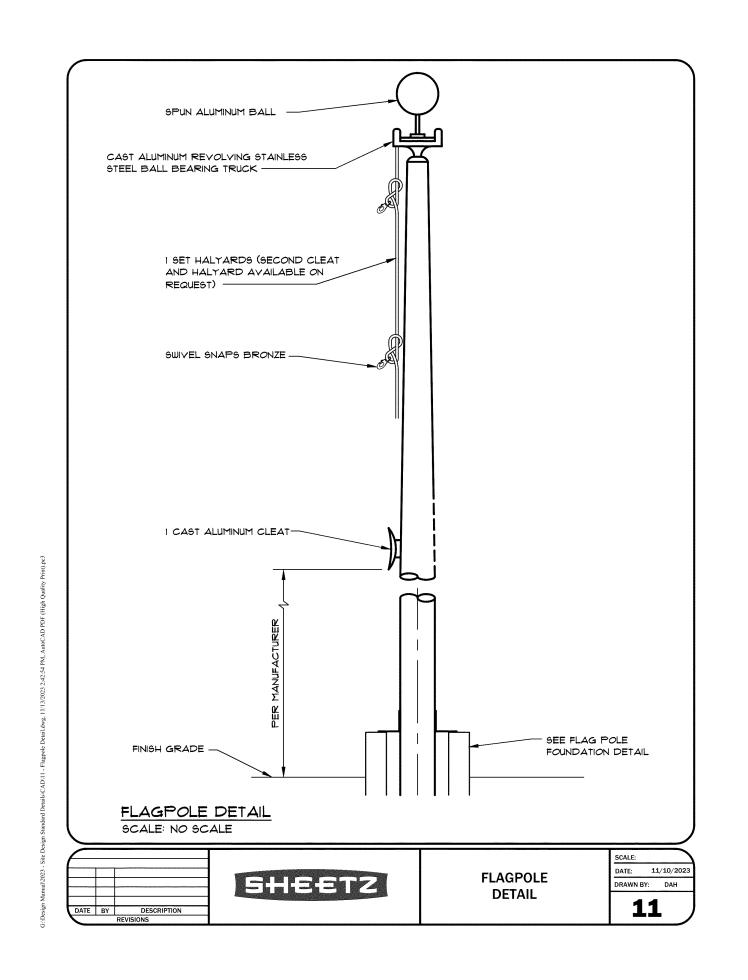


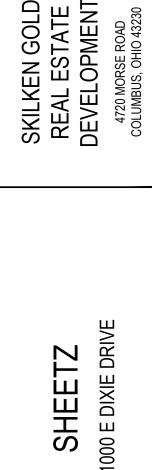




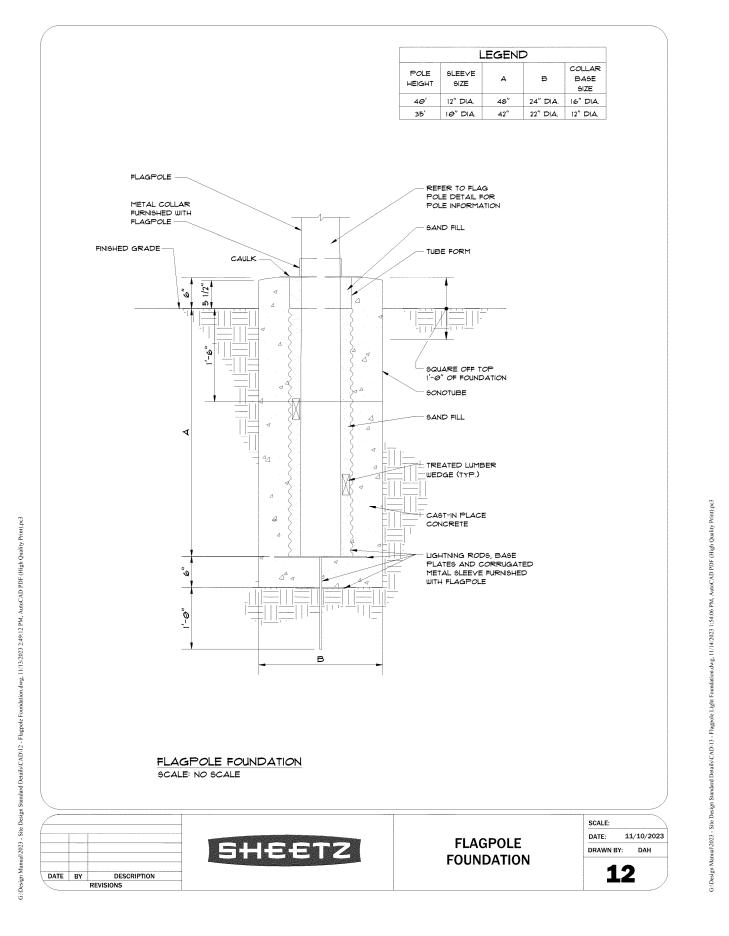


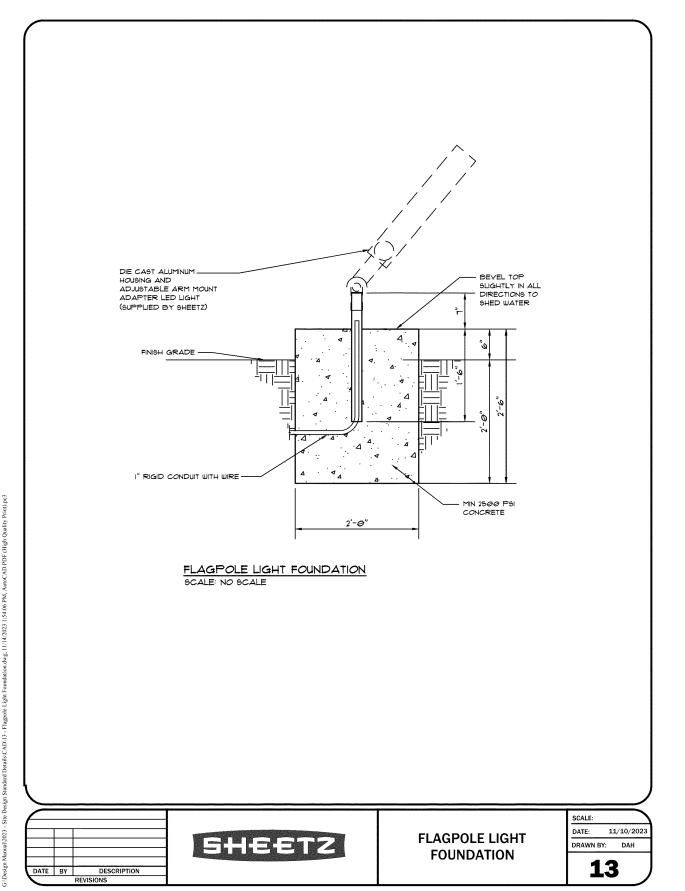


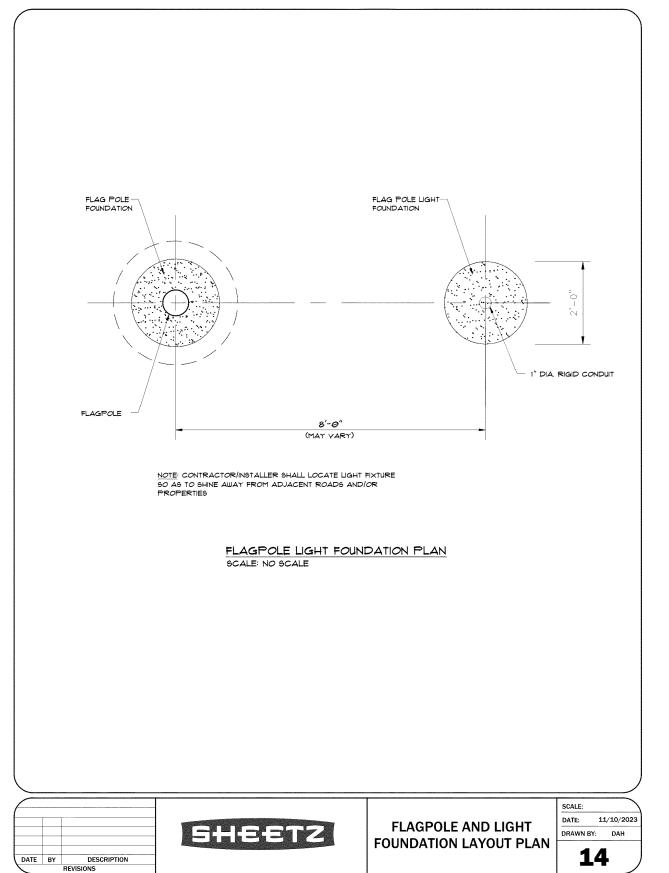


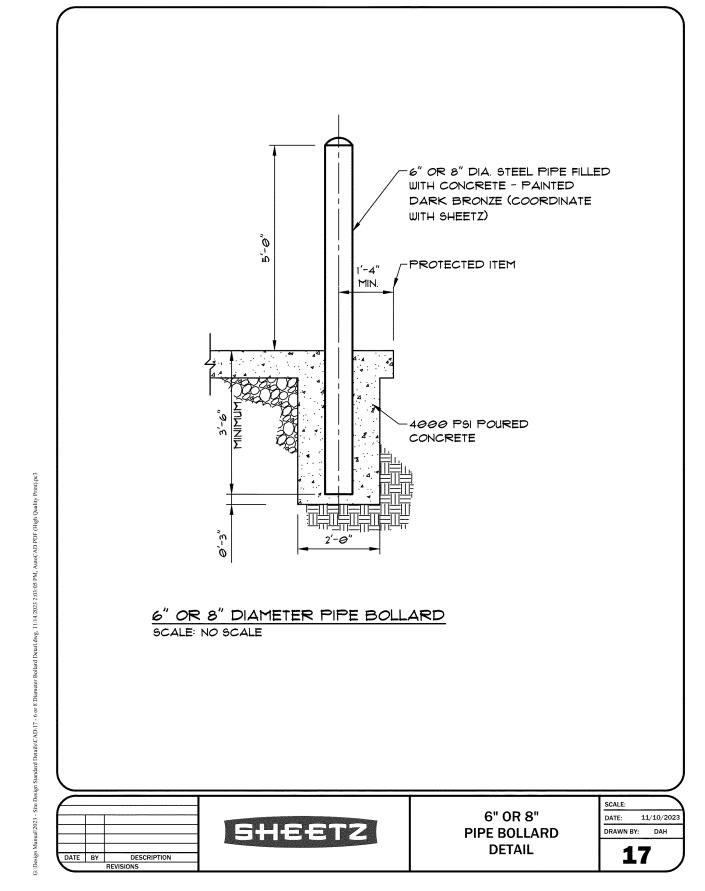


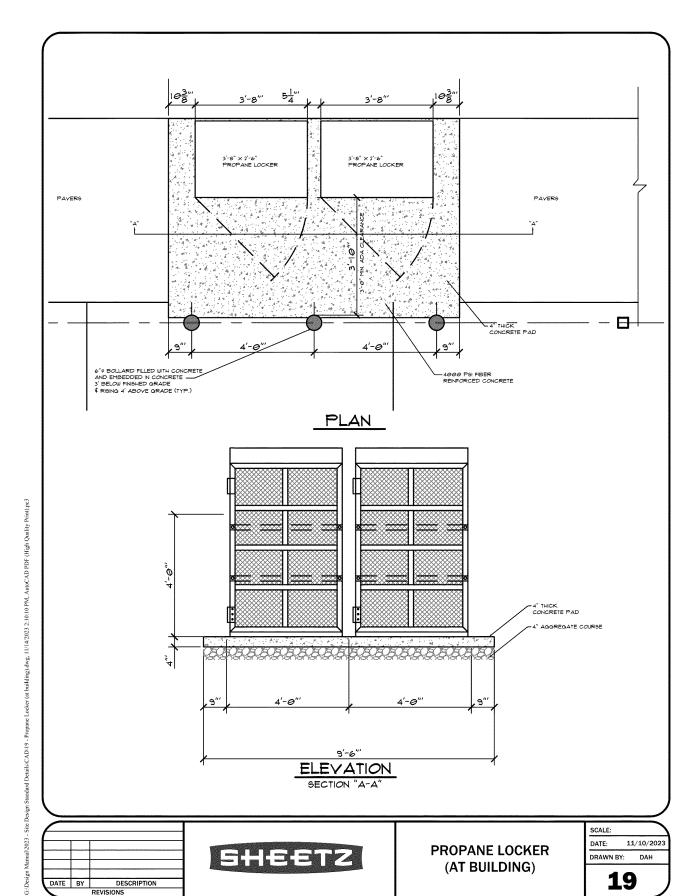
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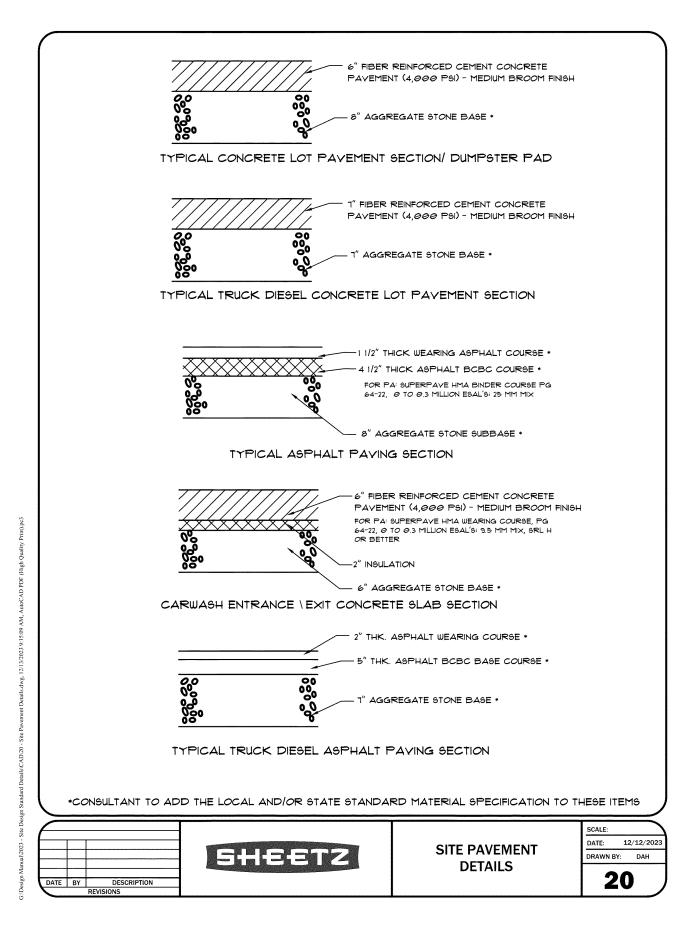


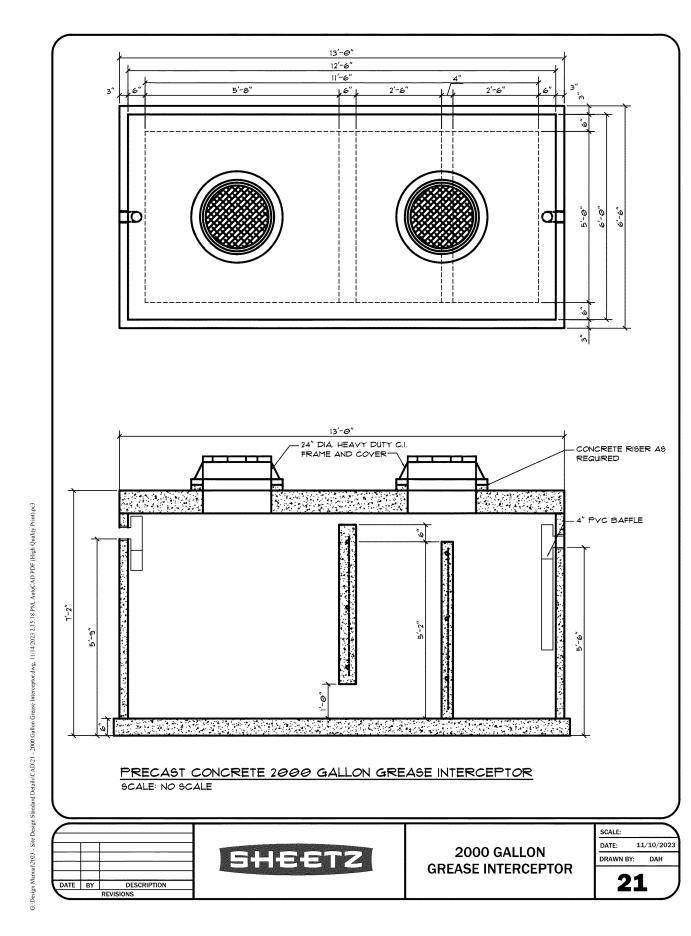


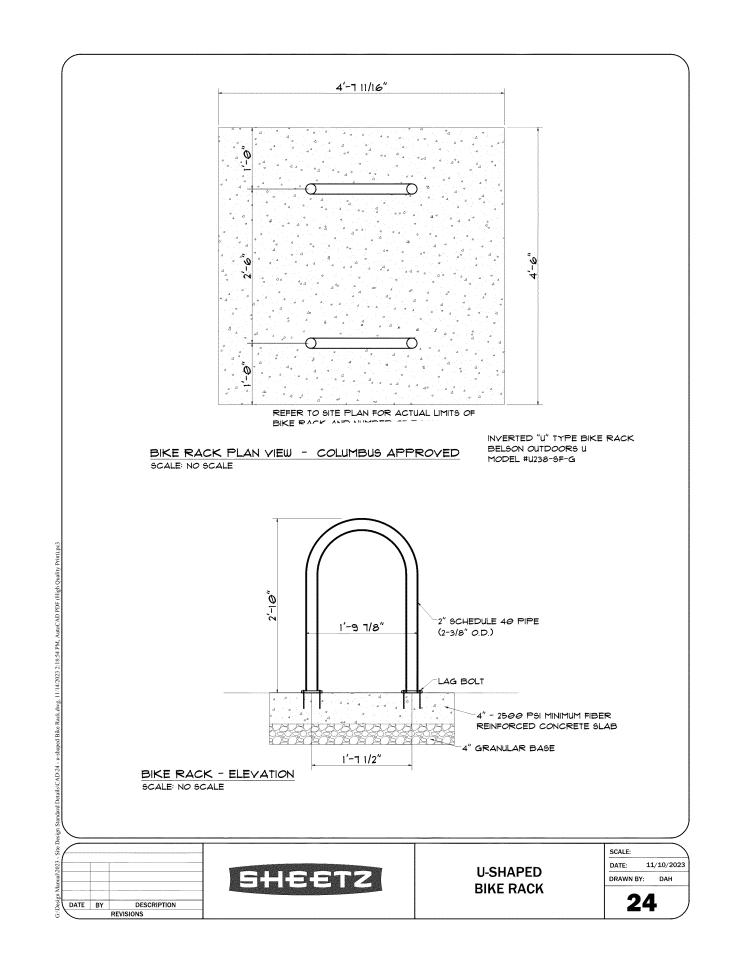






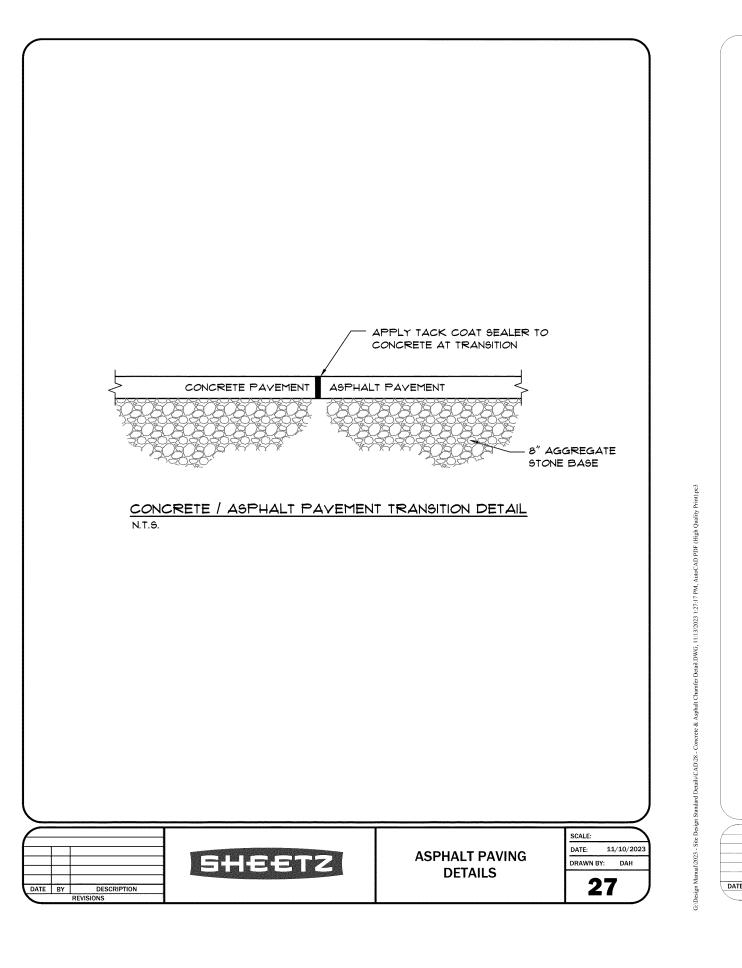


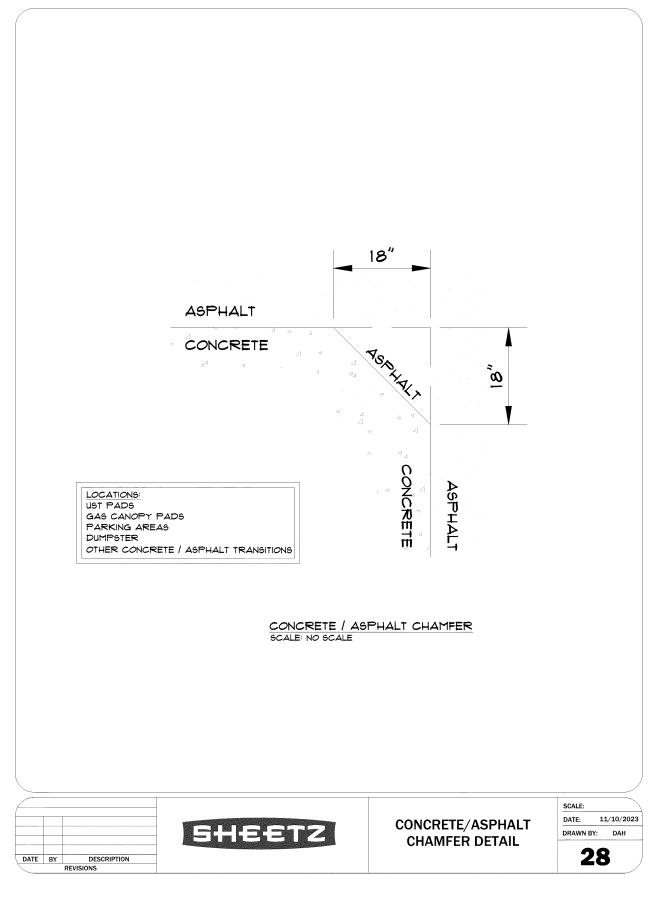


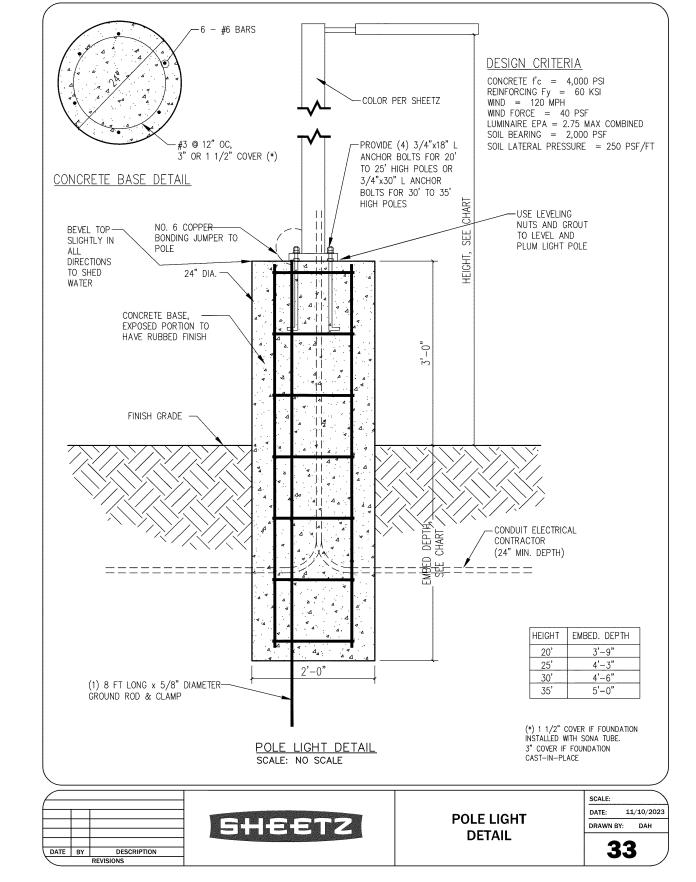


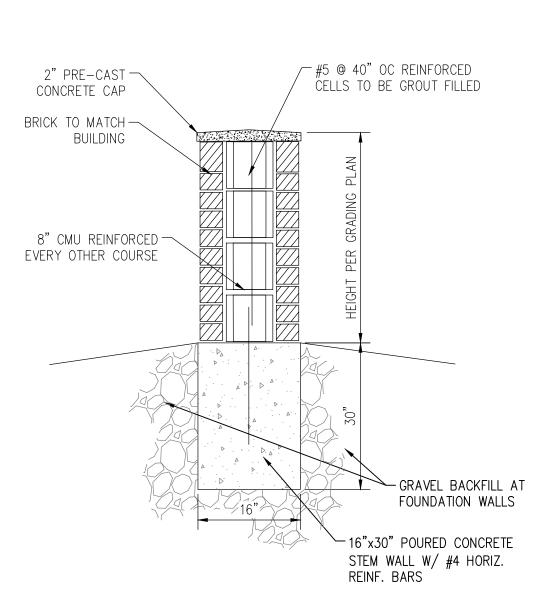


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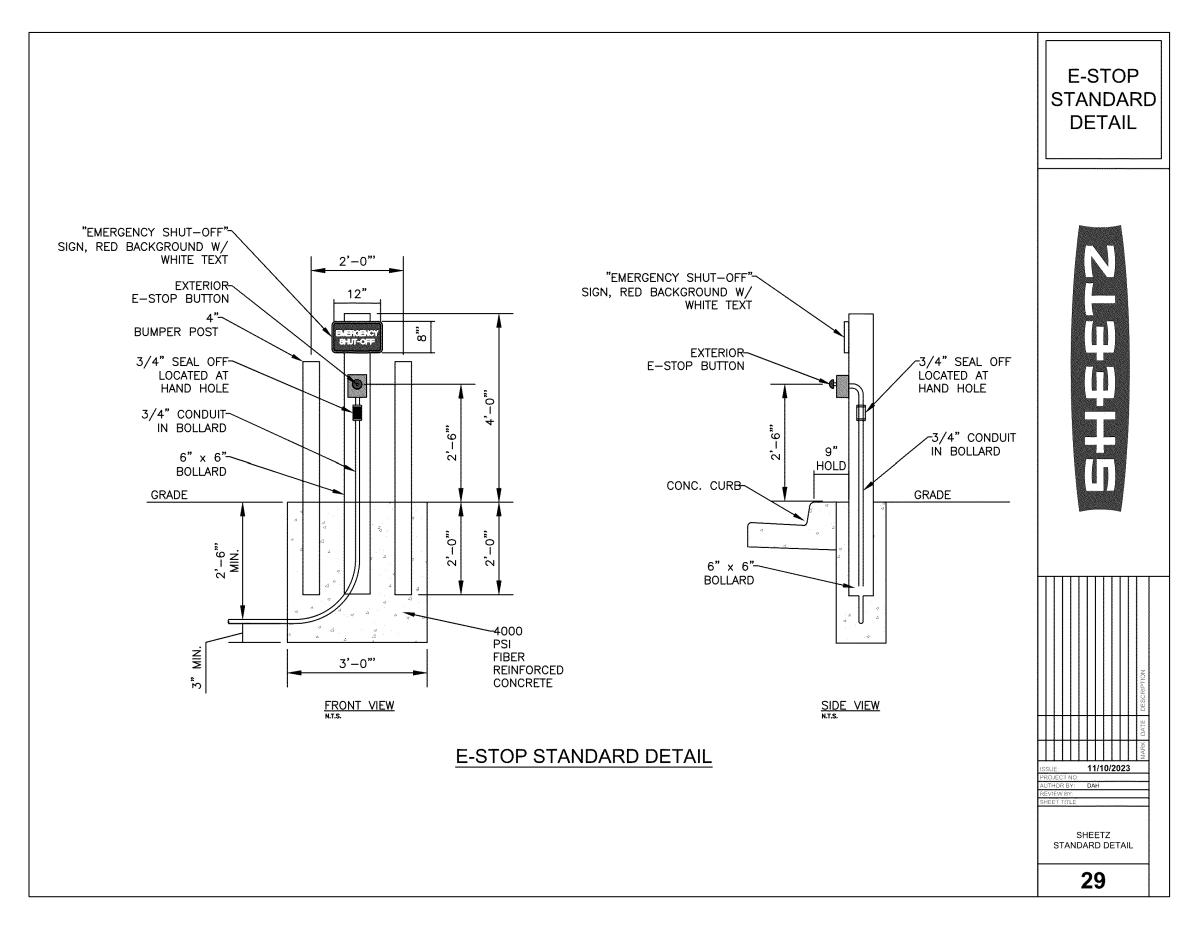


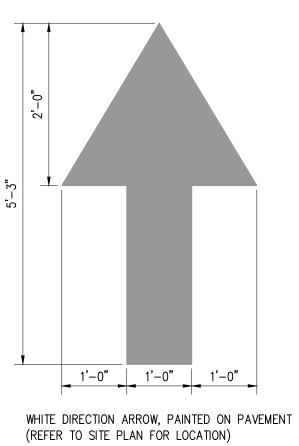










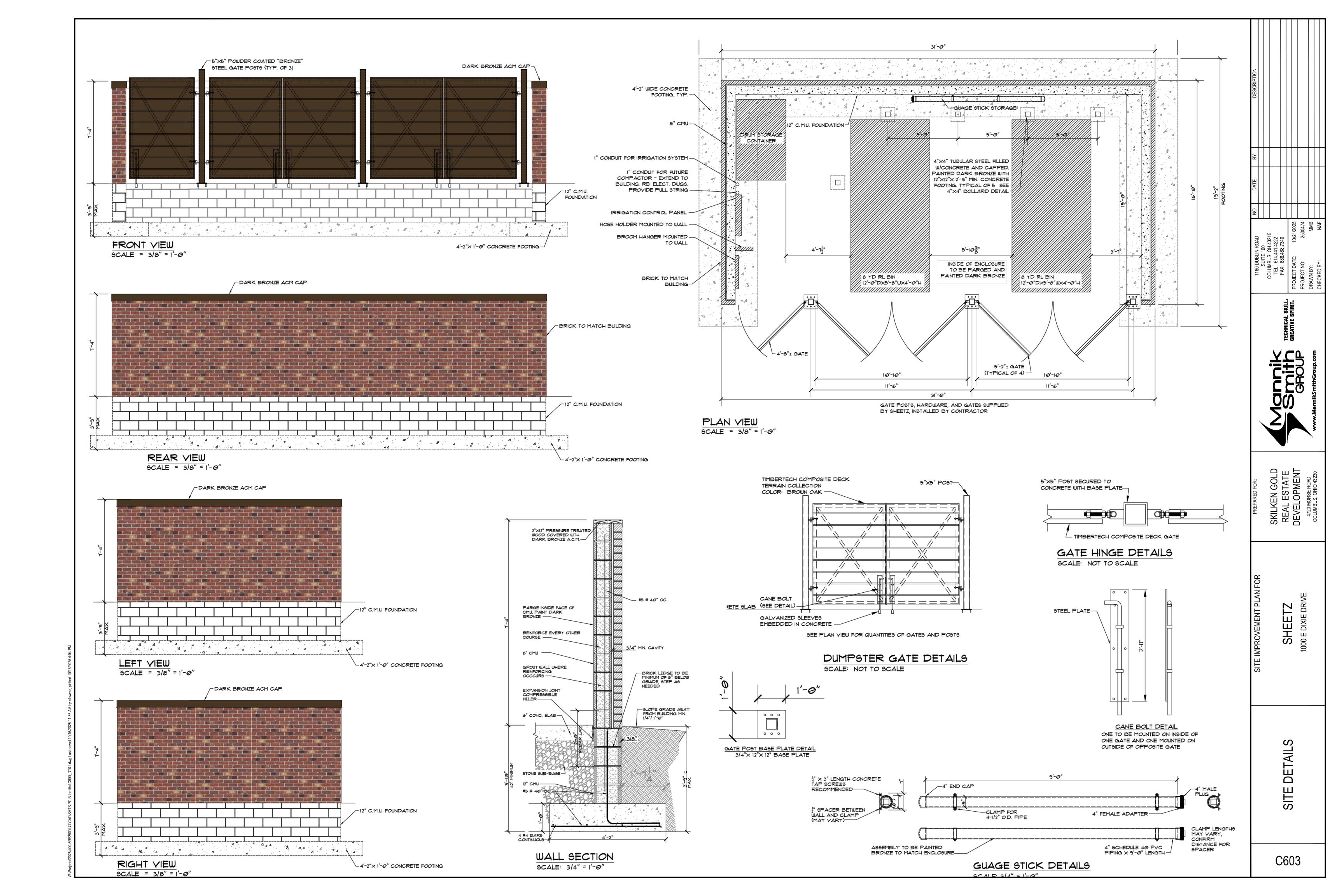


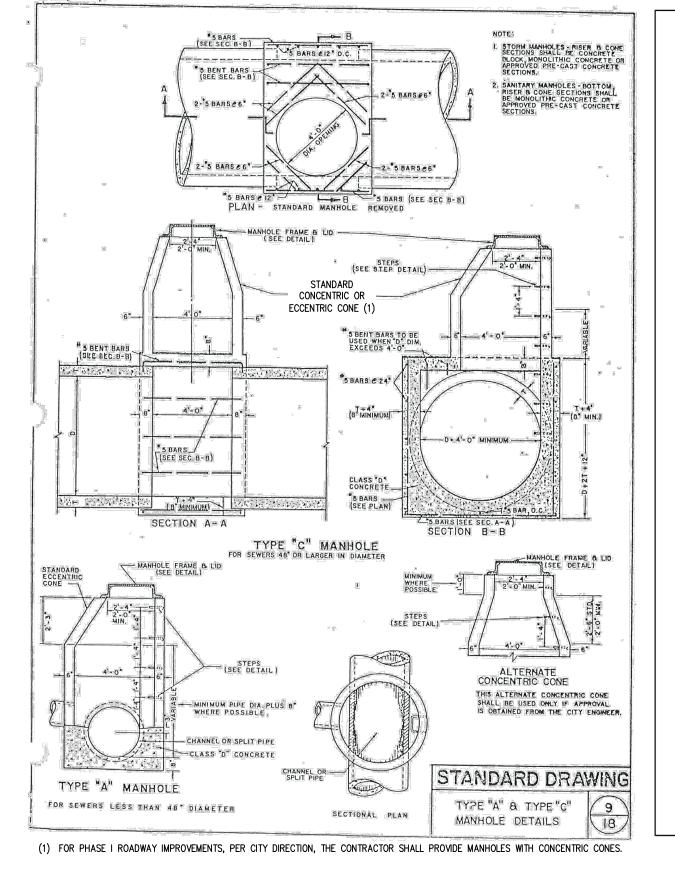
EXTERIOR CONCRETE SPECIFICATIONS: (PER ACI 318) STRENGTH 4000 PSI MINIMUM CEMENT FACTOR 588# (6.25 BAGS) MAXIMUM W/C 4.5%-7.5% ENTRAINED AIR 4" MAX. UNLESS HRWR OR MID RANGE WR - THEN 6"-8" SLUMP WATER REDUCER NORMAL TYPE A NORMAL TYPE D AS NEEDED (REQUIRED IF CONCRETE TEMP EXCEEDS 85° F) RETARDER CONCRETE TEMPERATURE 50-90 DEGREES NON-CHLORIDE TYPE ONLY ACCELERATOR THE USE OF CALCIUM CHLORIDE IS PROHIBITED! 1-1/2" @ 1.5#/CY (AS FIBER MESH 300 OR EQUIVALENT) NOTE: FIBER REQUIREMENT MAY BE WAIVED, SITE SPECIFIC, AT OWNER'S DISCRETION. REQUIRED SUBMITTALS: FORMAL MIX DESIGN FORM SUPPORTING STRENGTH DATA PER ACI 318 CEMENT MILL CERTIFICATION ADMIXTURE CERTIFICATION AND CATALOG CUTS FIBER TYPE AND DATA SHEET AGGREGATE CERTIFICATION AND GRADATION (COARSE AND FINE) READY MIX SUPPLIER TO TEST FIRST LOAD ON SITE TO CONFIRM ENTRAINED AIR*, SLUMP AND TEMPERATURE (*INFORMATION ONLY FOR NON AIR CONCRETE) ANY ADDED WATER MUST BE RECORDED ON DELIVERY TICKET THE ABOVE LISTED SUBMITTAL DATA IS IN GENERAL COMPLIANCE WITH THE GUIDELINES GIVEN IN ACI 301 AND ACI 318 THE PAVEMENT MARKING ARROW CONCRETE SUPPLIER MUST BE FAMILIAR WITH THESE DOCUMENTS. NOT TO SCALE

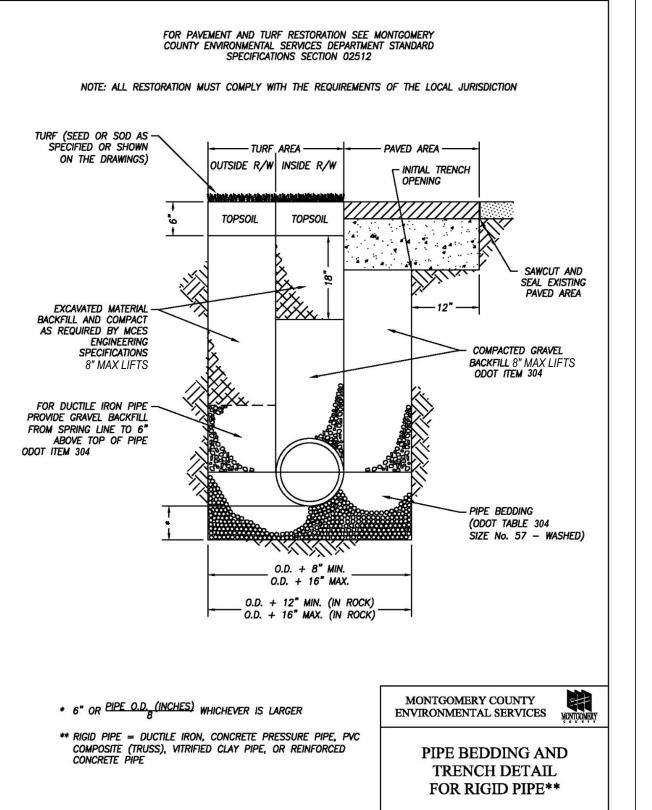
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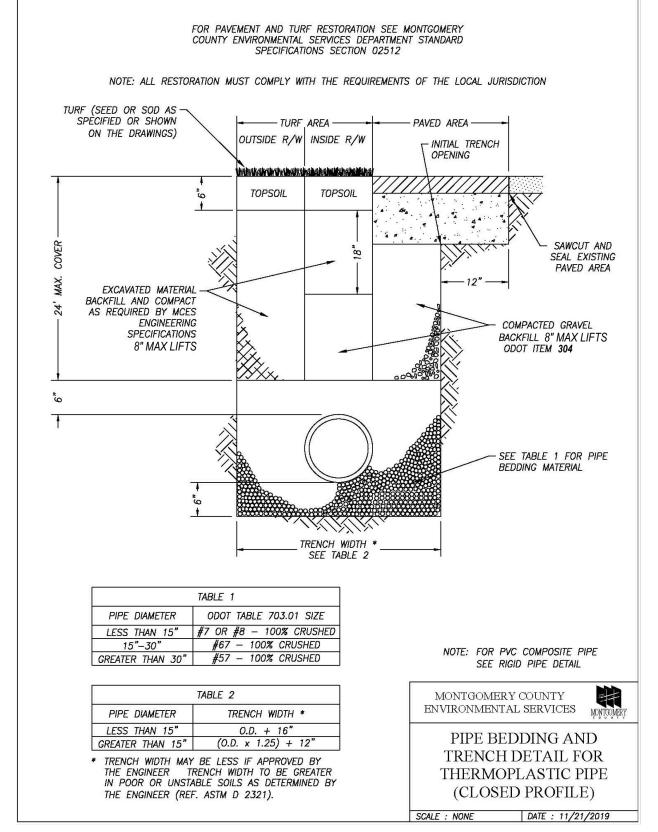
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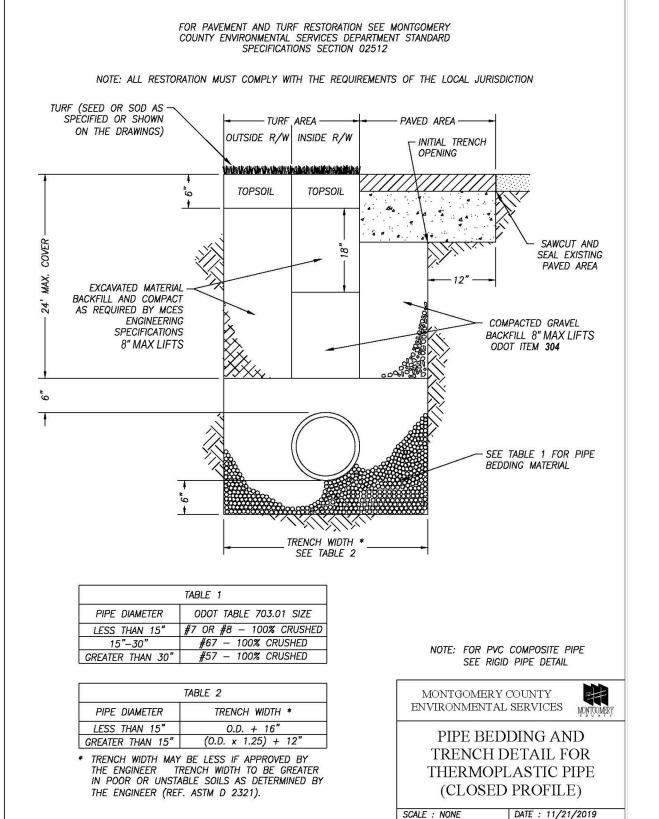
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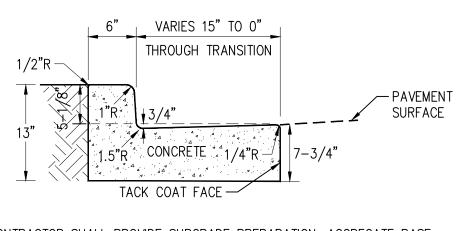
WATER SERVICE NOTES

- INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE CITY, ODOT CMS 638, AND AS SPECIFIED HEREIN. WATER SERVICE MATERIAL SHALL BE IN ACCORDANCE WITH ODOT CMS 748. IF THERE ARE ANY DISCREPANCIES, THE CITY'S REQUIREMENTS SHALL GOVERN.
- 2. ALL BACK FLOW PREVENTION DEVICES SHALL BE APPROVED BY THE CITY'S UTILITY DEPARTMENT. WATER METER AND BACKFLOW PREVENTER TO BE INSTALLED WITHIN THE BUILDING. REFERENCE BUILDING PLANS FOR DETAIL.
- FIRE SERVICE SHALL BE INSTALLED BY AN INDIVIDUAL WITH APPROPRIATE CERTIFICATION BY THE STATE OF OHIO.
- MINIMUM CLEARANCE BETWEEN WATERLINES AND SANITARY SEWER AND STORM SEWERS SHALL BE 10-FEET HORIZONTAL AND 18-INCHES VERTICAL TO THE OUTSIDE OF EACH PIPE UNLESS OTHERWISE SHOWN ON THE DRAWINGS. THE SEPARATION SHALL COMPLY WITH PART 8.8 OF THE RECOMMENDED STANDARDS FOR WATER WORKS (CURRENT EDITION) OF THE GREAT LAKES/UPPER MISSISSIPPI RIVER BOARD OF THE STATE AND PROVINCIAL PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS AS WELL AS BE INSPECTED AND APPROVED BY THE CITY ENGINEER BEFORE BACKFILL.
- THE PROPOSED WATER SERVICE PIPE SHOWN ON THE PLANS MAY REQUIRE DEFLECTIONS TO AVOID EXISTING STRUCTURES, SERVICE BOXES, OR OTHER INFRASTRUCTURE. DEFLECTIONS FROM PLAN LOCATION SHALL REQUIRE APPROVAL OF THE CITY ENGINEER. WATER SERVICE PIPE SHALL BE DEFLECTED AROUND STRUCTURES WITHOUT THE USE OF SPECIAL FITTINGS AND WITHOUT EXCEEDING THE MANUFACTURER'S ALLOWABLE DEFLECTION.
- MINIMUM DEPTH OF WATER MAIN COVER SHALL BE FOUR (4) FEET SIX (6) INCHES BELOW FINISH GRADE.
- 7. IN THOSE AREAS WHERE IT IS REQUIRED TO LOWER THE WATER LINE TO CLEAR AN OBSTACLE AND THE DEFLECTION WILL BE GREATER THAN 18", THE USE OF BENDS WILL BE REQUIRED TO CLEAR THE OBSTACLE AND BRING THE WATER MAIN UP TO THE STANDARD FOUR (4) FEET SIX (6) INCHES OF COVER.
- 8. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TEES, SLEEVES, REDUCERS, ETC. TO MAKE PROPER CONNECTIONS TO EXISTING WATER MAINS.
- 9. FOR WATER SERVICE PIPE 3" IN DIAMETER OR GREATER, THE CONTRACTOR SHALL FURNISH AND INSTALL DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151, THICKNESS CLASS 53. THE CONTRACTOR SHALL FURNISH PUSH ON JOINTS CONFORMING TO ANSI/AWWA C111. ALL BENDS AND FITTINGS SHALL BE ANCHORED BY USE OF RESTRAINED JOINTS. ALL FITTINGS SHALL USE MECHANICAL JOINT RESTRAINT, AWWA C600, MEGALUG OR EQUAL, AND THRUST BLOCKING. PIPE JOINTS MAY BE DEFLECTED TO OBTAIN HORIZONTAL AND VERTICAL ELEVATIONS. DEFLECTIONS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS. ALL COSTS SHALL BE INCLUDED IN THE BID PRICE FOR THE
- DUCTILE IRON WATER SERVICE PIPE. FOR WATER SERVICE PIPE 2-INCHES IN DIAMETER OR SMALLER, THE CONTRACTOR SHALL FURNISH AND INSTALL TYPE K ASTM B88 WITH AWWA C800 FITTINGS AND INSTALLED PER
- 10. EXCAVATE WATER SERVICE PIPE TRENCHES IN ACCORDANCE WITH ODOT CMS 611 AND 638.04 AS WELL AS THE STANDARD TRENCH DETAIL. LAY WATER PIPE IN ACCORDANCE TO ODOT CMS 638.06 AND 638.07.
- 11. WHERE NECESSARY TO DISTURB PAVEMENTS OR DRIVES, THE PAVEMENT SHALL BE CUT IN NEAT, STRAIGHT LINES. THE DEPTH OF SAW CUT SHALL BE AT LEAST THREE INCHES. COSTS FOR SAW CUTTING SHALL BE INCLUDED IN THE PRICE BID FOR DUCTILE IRON WATER PIPE.
- 12. THE NORMAL WORKING PRESSURE IN WATER LINES SHALL NOT BE LESS THAN 35-PSI.

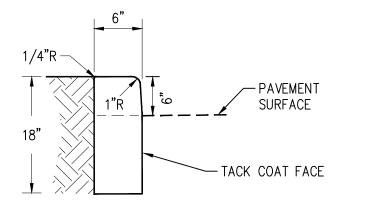
AWWA C800, OR APPROVED EQUAL.

THE WATER LINES IN THE BUSINESS.

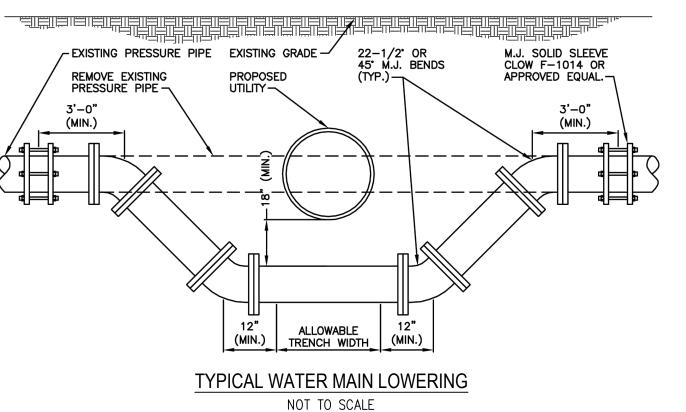
- 13. ALL WATER SERVICE PIPE FIELD TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (MATERIAL COMPOSITION, MATERIAL COMPACTION, CONCRETE TESTING,
- 14. ONLY CITY OF WEST CARROLLTON PERSONNEL SHALL OPERATE WATER MAINLINE VALVES UNLESS AUTHORIZED BY THE CITY.
- 15. THE CONTRACTOR SHALL NOTIFY ALL BUSINESS MANAGERS TO BE AFFECTED BY WATER SHUT-OFF A MINIMUM OF ONE WEEK PRIOR TO SUCH OCCURRENCE. THIS SHALL BE PERFORMED BY MEETING WITH THE MANAGER AND DESCRIBING THE APPROXIMATE TIME WATER WILL BE OFF, DURATION, AND INSTRUCTIONS ON FLUSHING



THE CONTRACTOR SHALL PROVIDE SUBGRADE PREPARATION, AGGREGATE BASE, AND UNDERDRAIN PER THE CORRESPONDING TYPICAL ROAD SECTION. WEST CARROLLTON STANDARD BARRIER CURB & GUTTER TRANSITION FOR RI/RO NOT TO SCALE



THE CONTRACTOR SHALL PROVIDE SUBGRADE PREPARATION, AGGREGATE BASE, AND UNDERDRAIN PER THE CORRESPONDING TYPICAL ROAD SECTION. WEST CARROLLTON STANDARD BARRIER CURB FOR RI/RO NOT TO SCALE



3. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED

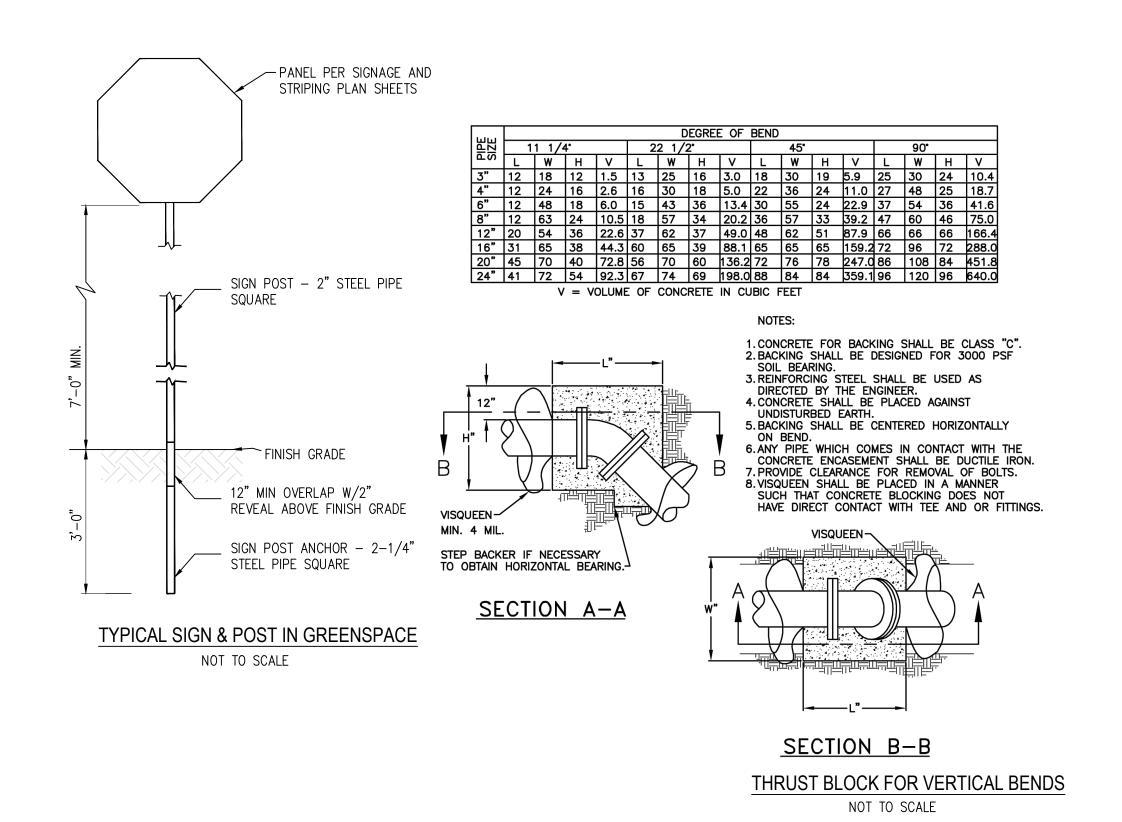
4. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.
5. VISQUEEN SHALL BE PLACED IN A MANNER SUCH THAT

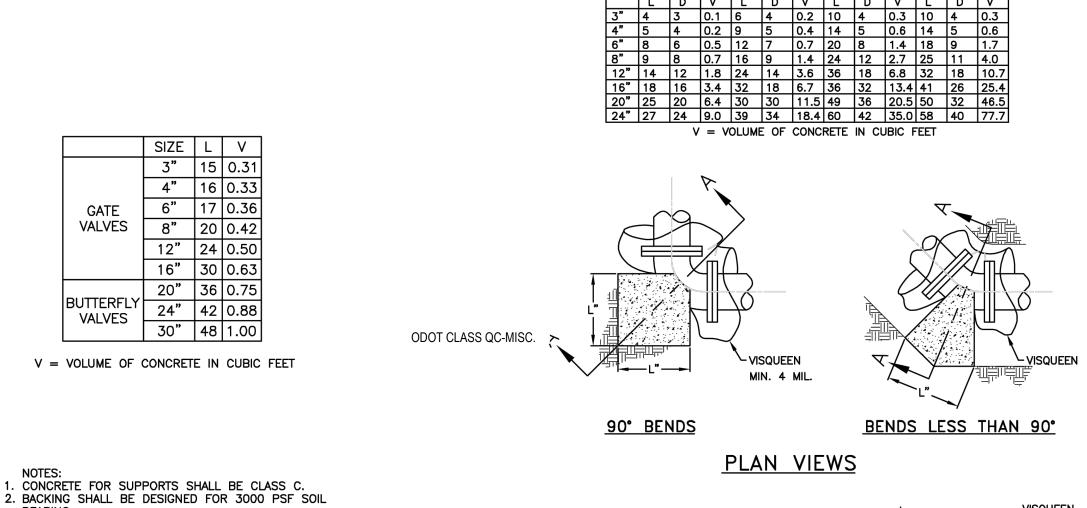
CONCRETE BACKING DOES NOT HAVE DIRECT CONTACT

14.4

CONCRETE VALVE SUPPORTS

NOT TO SCALE





1. CONCRETE FOR BACKING SHALL BE CLASS "C". 2. BACKING SHALL BE DESIGNED FOR 3000 PSF SOIL BEARING.

3. REINFORCING STEEL SHALL BE USED AS DIRECTED BY THE ENGINEER.

4. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH. 5. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS. 6. VISQUEEN SHALL BE PLACED IN A MANNER SUCH THAT CONCRETE BLOCKING DOES NOT

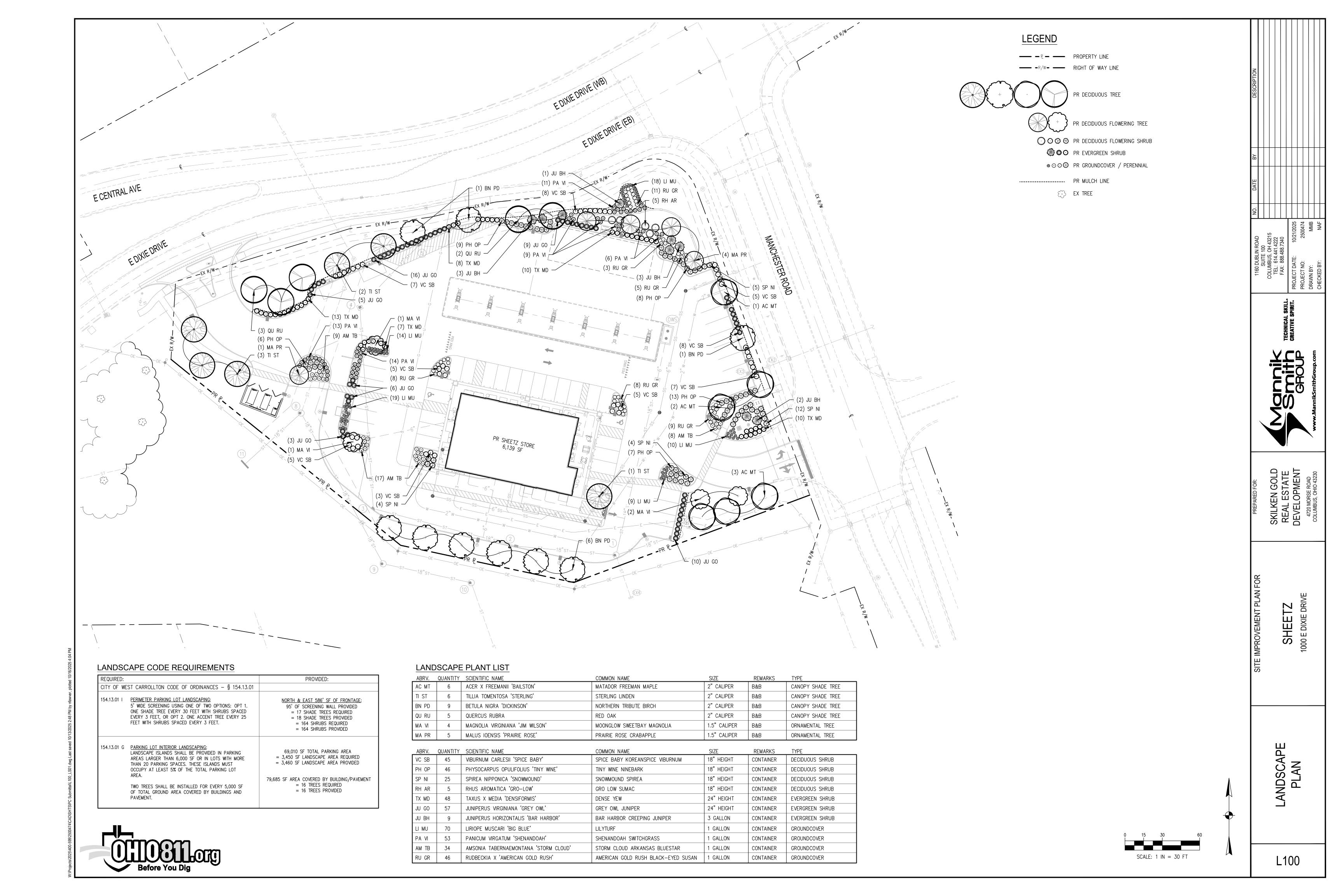
SECTION A-A HAVE DIRECT CONTACT WITH TEE AND OR FITTINGS.

THRUST BLOCK FOR HORIZONTAL BENDS NOT TO SCALE

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GENERAL LANDSCAPE PLANTING NOTES

- 1. THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON ALL PLANTS AND VEGETATION PROPOSED ON THE LANDSCAPING PLAN. ANY TREES, SHRUBS, GROUND COVER OR OTHER VEGETATION PLANTED AS PART OF THIS PROJECT THAT DO NOT SURVIVE ONE YEAR FROM PLANTING SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL PERTINENT UTILITY COMPANIES THREE WORKING DAYS IN ADVANCE OF ANY DIGGING. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF ANY UTILITIES.
- 3. REFER TO THE LANDSCAPE PLAN FOR ADDITIONAL NOTES. LANDSCAPE IMPROVEMENTS SHALL CONFORM TO THE LATEST EDITION OF ODOT CONSTRUCTION SPECIFICATIONS.
- 4. ALL PLANTING MATERIALS: SHALL BE PLANTED PER ODOT SPECIFICATIONS. EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE BROKEN, LOW HANGING AND OTHER UNDESIRABLE GROWTH TO ENSURE HEALTHY AND SYMMETRICAL NEW GROWTH.
- 5. PLANTING BEDS. ONE MONTH BEFORE CULTIVATION AND AFTER DAYTIME TEMPERATURES HAVE WARMED TO 60° CONSISTENTLY, TREAT ALL PLANTING BEDS THAT ARE TO BE DEVELOPED IN AREAS OF EXISTING TURF WITH PRE-EMERGENT AND POST-EMERGENT TYPE HERBICIDES. USE A STATE-LICENSED PESTICIDE APPLICATOR TO APPLY THE HERBICIDE. REPEAT HERBICIDE APPLICATION TWO WEEKS LATER AND UNTIL ALL HERBACEOUS MATERIALS HAVE BEEN KILLED. BEFORE PLANTING. TOP DRESS ALL PLANTING BEDS WITH A MINIMUM OF 6 INCHES OF BACKFILL MIX, THEN CULTIVATE PLANTING AREA TO A DEPTH OF 6 INCHES USING A PLOW, DISC, OR ROTO-TILLER.
- 6. BACKFILL MIX. FOR ALL PLANTINGS, USE BACKFILL MIX CONSISTING OF THE FOLLOWING:
- A. ONE PART EXCAVATED SOIL.

 B. ONE PART TOPSOIL.
- ONE PART EPA RATED CLASS IV COMPOST.
- D. A SLOW RELEASE COMMERCIAL FERTILIZER (0-20-20 OR EQUAL) ADDED AT A RATE OF 5 POUNDS PER CUBIC YARD TO THE BACKFILL MIX.
- E. IF SOIL AREAS ARE OF HIGH PH (GREATER THAN 6.5), APPLY 1.25 POUNDS OF ELEMENTAL SULFUR PER CUBIC YARD OF BACKFILL MIX.

 NOTE: CONTRACTOR SHALL SUPPLY A DETAILED SOIL ANALYSIS PRIOR TO ALL PLANT BED PREPARATION

NOTE: CONTRACTOR SHALL SUPPLY A DETAILED SOIL ANALYSIS PRIOR TO ALL PLANT BED PREPARATION. ANALYSIS SHALL INDICATE SOIL PH, TEXTURE, MAJOR NUTRIENTS, SALTS, ETC. SOIL ANALYSIS SHALL BE FROM A REPUTABLE, INDEPENDENT LAB. SOIL AMENDMENTS SHALL BE INCORPORATED INTO BACKFILL/PLANT MIX AS RECOMMENDED BY THE INDEPENDENT LAB.

- 7. MULCH. SMOOTH AND SHAPE THE BACKFILL MIX TO FORM A SHALLOW BASIN SLIGHTLY LARGER THAN THE PLANTING HOLE. ALL SHRUB MASSINGS SHALL BE MULCHED TO A DEPTH OF 3". PERENNIAL BEDS SHALL BE MULCHED TO A DEPTH OF 3". DOUBLE GROUND BROWN OR BLACK COLOR ENHANCED (DYED) MULCH SHALL BE SPREAD OVER WOVEN POLYPROPYLENE WEED BARRIER, DEWITT 15 YEAR WEED BARRIER OR EQUAL FOR SHRUB MASSING, ANNUAL, AND PERENNIAL PLANTING AREAS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. GROUND COVER AREAS SHALL NOT HAVE FABRIC. PLANTS GROUPED IN MASSES SHALL HAVE THE ENTIRE CONTIGUOUS PLANTING BED OR ISLAND MULCHED. AFTER MULCHING AND BEFORE WATERING, ADD A SLOW RELEASE COMMERCIAL FERTILIZER (12–12–12 OR EQUAL), IN GRANULAR FORM, TO THE TOP OF THE MULCH AT A RATE OF 5 POUNDS PER 1000 SQUARE FEET. DO NOT ALLOW FERTILIZER TO CONTACT THE STEMS, BRANCHES, ROOTS OR LEAVES.
- 8. PERIOD OF ESTABLISHMENT. BEFORE FINAL INSPECTION, PLACE ALL PLANTS, SEED ALL LAWNS, AND CARE FOR THEM FOR A PERIOD OF ESTABLISHMENT. THE PERIOD OF ESTABLISHMENT BEGINS IMMEDIATELY UPON COMPLETION OF THE PLANTING OPERATIONS AND CONTINUES UNTIL OCTOBER 1. THE MINIMUM PERIOD OF ESTABLISHMENT IS ONE GROWING SEASON, JUNE 1 THROUGH OCTOBER 1. DURING THE PERIOD OF ESTABLISHMENT, FOLLOW STANDARD HORTICULTURAL PRACTICES TO ENSURE THE VIGOR AND GROWTH OF THE TRANSPLANTED MATERIAL. WATER, REMULCH, RESTAKE, GUY, AND CULTIVATE AS NECESSARY. PERFORM AT LEAST TWO WEEDING AND MOWING PROGRAMS (AROUND TREES, GUY STAKES, SHRUBS, AND BED EDGES) OF SUCH INTENSITY AS TO COMPLETELY RID THE PLANTED AND MULCHED AREAS OF WEEDS AND GRASSES. BEGIN THE FIRST PROGRAM ON OR ABOUT JUNE 15 AND THE SECOND APPROXIMATELY 8 WEEKS LATER. ON OR ABOUT AUGUST 15, THE ENGINEER WILL INSPECT THE PLANTING AND SUPPLY THE CONTRACTOR WITH A LIST OF MISSING AND DEAD PLANTS AND THOSE THAT HAVE DIED BACK BEYOND NORMAL PRUNING LINES. REPLANT AS REQUIRED ACCORDING TO THE SPECIFICATIONS OF THE ORIGINAL MATERIAL. REPLACEMENT PLANTS ARE SUBJECT TO A NEW PERIOD OF ESTABLISHMENT. IMMEDIATELY REPLACE PLANTS PLANTED INITIALLY IN THE FALL THAT HAVE DIED BEFORE THE SPRING PLANTING SEASON. CARE FOR THE REPLACEMENT PLANTS DURING THE NEW ESTABLISHMENT PERIOD.
- 9. RESTORATION OF DISTURBED AREAS FOR NEW LAWN:

ALL DISTURBED AREAS NOT COVERED BY BUILDING, PAVEMENT OR LANDSCAPE PLANTING BEDS SHALL BE SHALL BE PREPARED FOR GRASS SOD AND SODDED. LOOSEN RUTS AND WORK THE SOIL AREAS TO A MINIMUM OF 6" DEEP PRIOR TO FINE GRADING AND SODDING WORK. AREAS TO RECEIVE GRASS SOD SHALL HAVE A MIN. 4" TOPSOIL PLACED AND SODDED. FERTILIZE WITH ONE POUND OF ACTUAL NITROGEN PER 1000 SQUARE FEET WITH A SLOW RELEASE COMMERCIAL STARTER FERTILIZER (LESCO 18–24–12 OR EQUAL).

10. LANDSCAPE TREES, SHRUBS AND PERENNIAL WATERING:

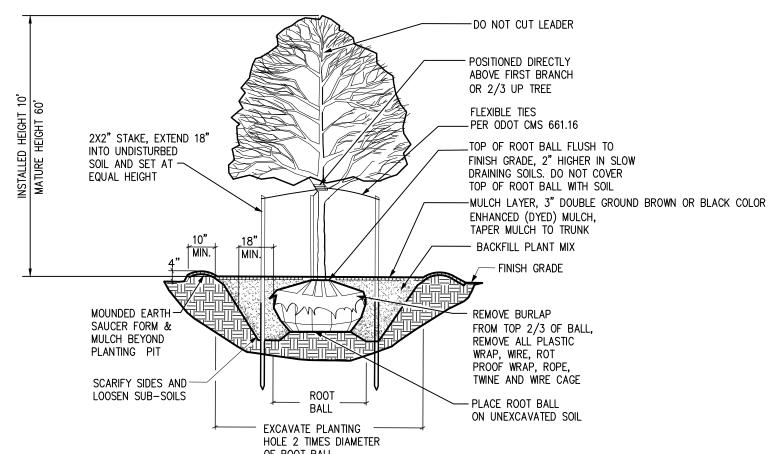
THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, DELIVERING, APPLYING, MEASURING AND SCHEDULING A SUFFICIENT AMOUNT OF WATER NECESSARY TO KEEP EACH PLANT IN A HEALTHY GROWING CONDITION THROUGHOUT THE PERIOD OF ESTABLISHMENT. THE CONTRACTOR SHALL APPLY 1" OF WATER PER WEEK TO ALL NEW PLANTS. THE CONTRACTOR SHALL INSTALL & MAINTAIN SUPPLEMENTAL DRIP WATERING TREE BAGS (SUCH AS 20 GALLON TREE GATOR WATER BAG) TO PROVIDE ADEQUATE, SLOW RELEASE OF WATER. WATER BAGS SHALL BE REMOVED AT THE END OF THE SECOND GROWING SEASON.

11. TURF GROUNDCOVER (SODDING, SEEDING AND SEED MULCHING):

ALL GREEN SPACE (EXCLUDING BEDS) ON SHEETZ PRIVATE PROPERTY IS TO BE COVERED WITH GRASS SOD. GREENSPACE WITHIN ROAD RIGHTS-OF-WAY MAY BE SEED OR SOD, WHATEVER THE REVIEW AUTHORITY DICTATES. ALL SEEDING INSTALLATION SHALL CONFORM TO ODOT SPECIFICATIONS AND NOTE 9 ABOVE. SEED AT 6 LBS/1000 SF WITH THE FOLLOWING SEED MIXTURE:

TITAN TALL—TYPE TURF FESCUE 70%
SR 4100 PERENNIAL RYEGRASS 20%
MERIT KENTUCKY BLUEGRASS 10%

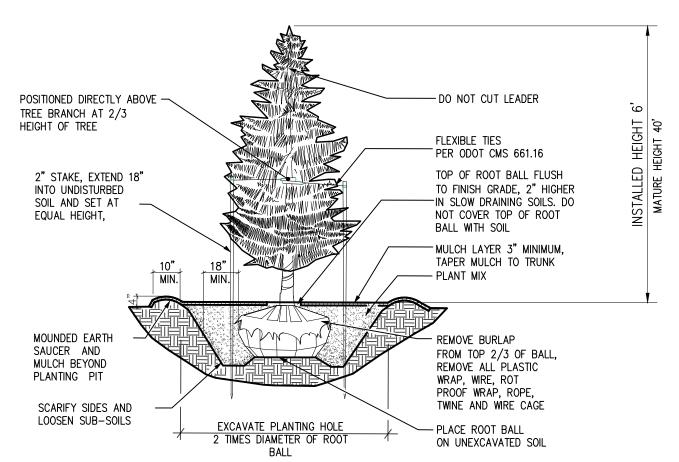
12. PLACE "DEWITT 15 YEAR WEED BARRIER" WOVEN POLYPROPYLENE OR APPROVED EQUAL IN ALL PLANTED BEDS AND AT EACH TREE RING.



...___

BEFORE IN HOLE, REMOVE BOTTOM OF CAGE. ONCE IN HOLE, REMOVE REST OF CAGE FROM ROOT BALL. REMOVE TWINE AND BURLAP FROM TOP 1/3 OF ROOT BALL — SCORE REMAINING 2/3 OF BURLAP. IF BURLAP SYNTHETIC, COMPLETELY REMOVE IT FROM ROOT BALL. ROOT FLARE IS EXPOSED AND FLUSH WITH FINISHED GRADE.

DECIDUOUS TREE PLANTING DETAIL
NO SCALE

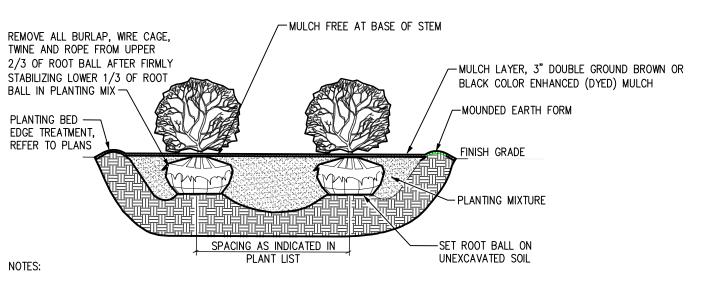


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EVERGREEN TREE PLANTING DETAIL

NO SCALE



ALL SHRUBS PLANTED IN ROWS OR MASSES SHALL BE MATCHED IN SIZE AND FORM.

SHRUBS SHALL BEAR SAME RELATION TO FINISH GRADE AS THEY BORE TO EXISTING GRADE IN THE PREVIOUSLY PLANTED CONDITION.

MASS SHRUB PLANTING DETAIL (B&B OR CONTAINER)

NO SCALE



ANDSCAPE DETAILS

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