

GENERAL NOTES:

THE OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS", CURRENT EDITION, AND THE CURRENT "RULES AND REGULATIONS" OF BUTLER COUNTY AND WEST CHESTER TOWNSHIP SPECIFICATIONS SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN, UNLESS OTHERWISE NOTED.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PER LOCAL, STATE, AND FEDERAL REQUIREMENTS.

ALL WORK IN RIGHT OF WAY, INCLUDING UTILITY CUTS/TAPS WILL NEED A PERMIT FROM BUTLER COUNTY ENGINEER'S OFFICE.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR(S) TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS WORK.

ITEM 201: CLEARING AND GRUBBING: THIS WORK CONSISTS OF CLEARING, GRUBBING, SCALPING, REMOVING TREES AND STUMPS, AND REMOVING ALL VEGETATION AND CONSTRUCTION DEBRIS FROM THE LIMITS SHOWN ON THE PLANS, EXCEPT SUCH OBJECTS THAT ARE TO REMAIN OR ARE TO BE REMOVED ACCORDING TO OTHER ITEMS OF WORK.

USE REMOVED OR EXCAVATED MATERIALS IN THE WORK WHEN THE MATERIAL CONFORMS TO THE SPECIFICATIONS; IF NOT THEN RECYCLE, OR DISPOSE OF THE MATERIAL ACCORDING TO 105.16 AND 105.17.

REMOVE OR SAVE ALL TREES, SHRUBS, AND PLANTS AS DESIGNATED ON THE PLANS. PRESERVE ALL VEGETATION AND OBJECTS NOT DESIGNATED FOR REMOVAL. PAINT CUT OR SCARRED SURFACES OF TREES OR SHRUBS SELECTED FOR RETENTION ACCORDING TO 666.04. IN ORDER TO RETARD AND PREVENT THE SPREAD OF THE EMERALD ASH BORER, LIMIT THE MOVEMENT OF REGULATED ARTICLES ACCORDING TO OHIO ADMINISTRATIVE CODE 901:5-36. OBSERVE REQUIREMENTS FOR HANDLING AND TRANSPORTING OF REGULATED ARTICLES IN QUARANTINED AREAS AS DEFINED BY THE OHIO DEPARTMENT OF AGRICULTURE (HTTP://WWW.AGRI.OHIO.GOV/EAB/).

ALL EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH THE SWPPP PLAN AND LOCAL AND OHIO EPA REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL INSPECTIONS AND REPORTING AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION (NPDES) PERMIT. CONTRACTOR SHALL PROVIDE WRITTEN REPORTS TO THE OWNER AND KEEP A COPY ON FILE.

THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED THROUGH INFORMATION PROVIDED BY THE VARIOUS UTILITY OWNERS AND BY FIELD SURVEY, BUT ARE NOT GUARANTEED TO BE ACCURATE OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, PRIOR TO CONSTRUCTION, TO DETERMINE THE ACTUAL FIELD LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES IMPACTING HIS WORK. THE CONTRACTOR IS DIRECTED TO CONTACT THE OHIO UTILITY PROTECTION, INC. AT 1 (800) 362-2764 AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.

THE LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.

THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR THE MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF OPERATIONS OF THE CONTRACTOR, NOR FOR SAFETY ON THE JOB SITE OR THE CONTRACTOR'S FAILURE TO COMPLETE THE WORK AS SPECIFIED ON THIS PLAN.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SURVEYING AND CONSTRUCTION STAKING REQUIRED FOR SITEWORK IN THIS PACKAGE AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL RESTRICT ALL CONSTRUCTION ACTIVITIES TO THE PROJECT SITE AND EXISTING RIGHTS-OF-WAY, CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PROPERTY WITHOUT WRITTEN CONSENT OF THE PROPERTY OWNER.

ACCESS TO ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

ANY STORM PIPES DAMAGED DURING CONSTRUCTION SHALL EITHER BE RESTORED TO ITS ORIGINAL CONDITION OR CONNECTED TO THE STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION AS DIRECTED OR APPROVED BY THE OWNER.

ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

ALL MANHOLES, FIRE HYDRANTS AND VALVE BOXES SHALL BE ADJUSTED TO FINAL GRADE AT THE CONTRACTOR'S EXPENSE.

GRANULAR BACKFILL SHALL BE REQUIRED IN ALL TRENCHED IN AREAS OF EXISTING PAVEMENT. FILL IN PROPOSED PAVEMENT OR BUILDING PAD AREAS SHALL BE COMPACTED TO THE PROJECT'S GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND FIELD PERSONELL APPROVAL.

STORM SEWERS AND STRUCTURES:

ALL PROPOSED STORM SEWERS AND STRUCTURES ARE PRIVATE, UNLESS OTHERWISE NOTED, AND SHALL BE MAINTAINED BY THE OWNER. SUPPLY PIPE OF THE REQUIRED SIZE OR ONE SIZE LARGER. PROPOSED STORM SEWERS "PR. STM" SHALL BE PVC-SDR 35/ HIGH DENSITY POLYETHYLENE (HDPE), PER ODOT 707.33/ ULTRA FLO ALUMINIZED CORRUGATED METAL PIPE, PER ODOT ITEM 707.10, 707.02/ OR REINFORCED CONCRETE PIPE, PER ODOT ITEM 706.02, CLASS IV. ALL STORM SHALL BE INSTALLED PER ODOT ITEM 603, TYPE A (CULVERTS) AND TYPE B (STORM/SANITARY UNDER PAVEMENT).

603.06 BEDDING. TYPE 1 BEDDING CONSISTS OF STRUCTURAL BACKFILL EXTENDING AT LEAST 6 INCHES (150 MM) BELOW THE BOTTOM OF THE CONDUIT FOR THE FULL WIDTH OF THE TRENCH. COMPACT THE BEDDING ACCORDING TO 603.11.

USE TYPE 1 BEDDING FOR 706.05, OR 706.051 AND 706.052 ON SLAB BOTTOMS, OR CORRUGATED INVERT PLATES.

TYPE 2 BEDDING CONSISTS OF STRUCTURAL BACKFILL EXTENDING AT LEAST 3 INCHES (75 MM) FOR ALL 706 RIGID PIPE CONDUITS AND 6 INCHES (150 MM) FOR ALL OTHER CONDUITS BELOW THE BOTTOM OF THE CONDUIT FOR THE FULL WIDTH OF THE TRENCH. EXTEND THE BEDDING UP AROUND THE PIPE FOR A DEPTH OF NOT LESS THAN 30 PERCENT OF THE RISE OF THE CONDUIT. SHAPE THE BEDDING TO FIT THE CONDUIT WITH RECESSES SHAPED TO RECEIVE THE BELL OF BELL-AND-SPIGOT PIPE. LEAVE THE BEDDING BELOW THE MIDDLE ONE-THIRD OF THE PIPE SPAN UNCOMPACTED. COMPACT THE REMAINING BEDDING ACCORDING TO 603.11.

USE TYPE 2 BEDDING FOR TYPES A, B, C, AND D CONDUITS EXCEPT FOR LONG SPAN STRUCTURES AND FOR CONDUITS THAT REQUIRE TYPE 3 BEDDING.

COMPACTED FILLS SHALL BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO TRENCHING FOR PLACEMENT OF SEWER. ALL FILLS SHALL BE INSPECTED AND APPROVED BY THE PROJECT'S GEOTECHNICAL ENGINEER, OR PER GOVERNING AGENCIES APPROVAL.

CATCH BASINS AND/OR MANHOLES OVER 4 FEET SHALL BE FURNISHED WITH STEPS, MEETING ODOT ITEM 604, 711.13, 711.30, OR 711.31.

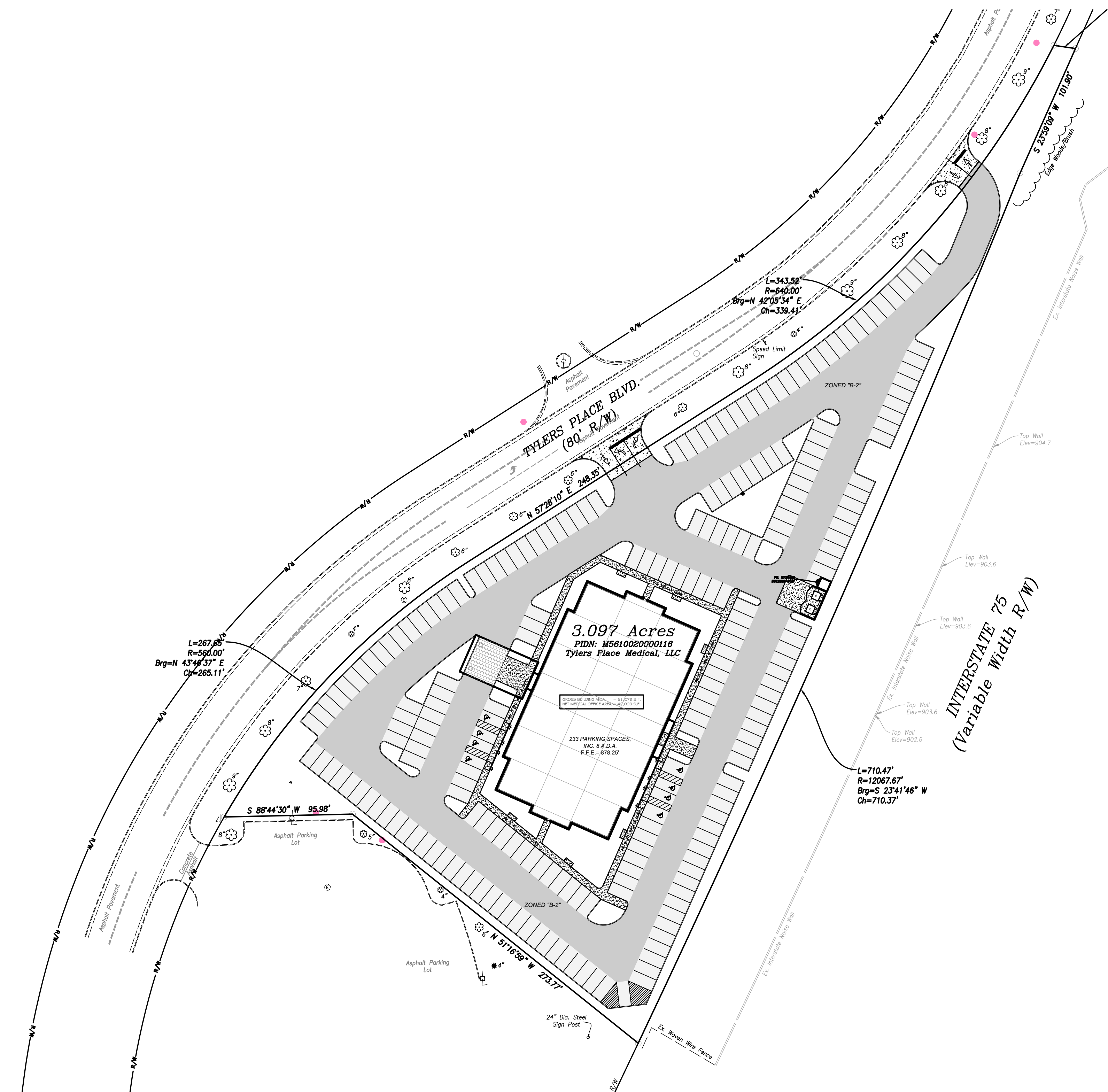
CATCH BASINS LOCATED IN PAVEMENT AREAS SHALL HAVE FINGER DRAINS, (SEE DETAIL SHEET).

DISTANCES LISTED ON THE PLANS ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

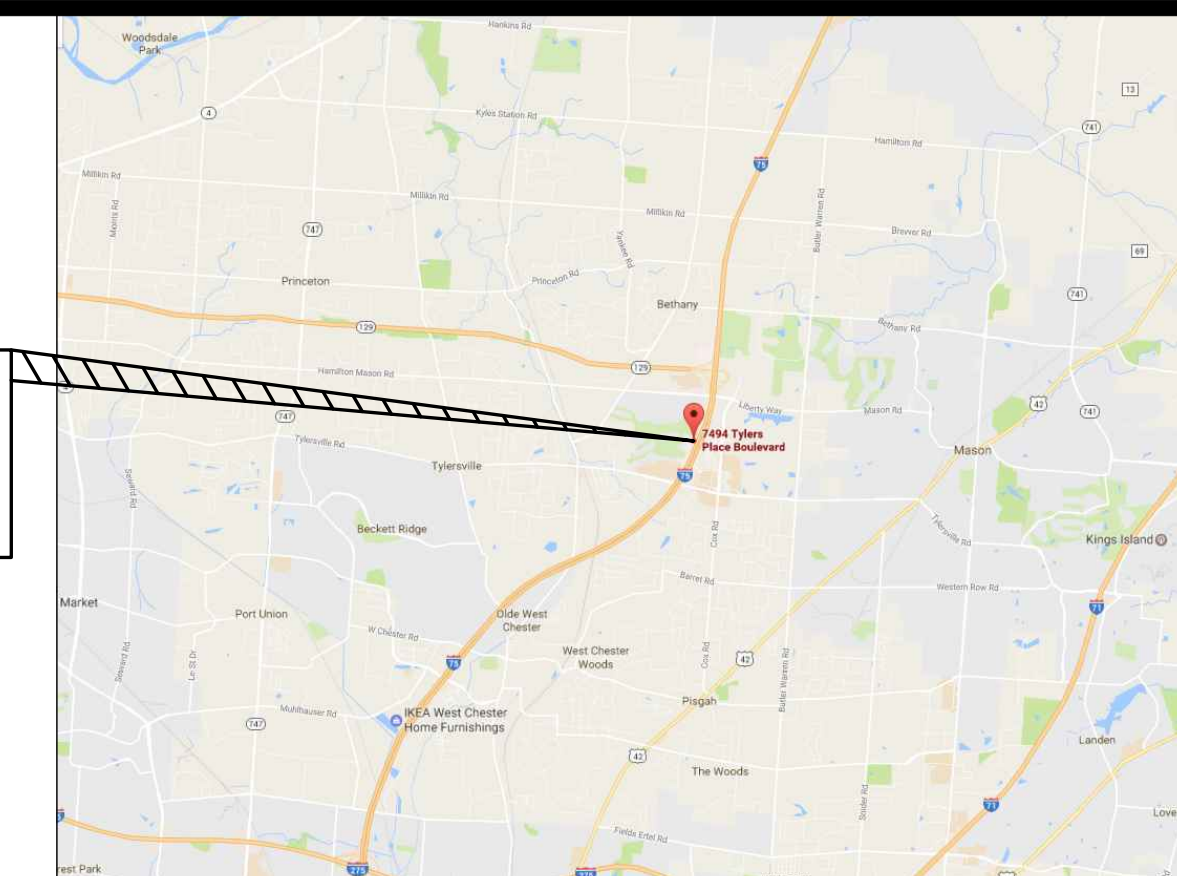
EXCAVATION/FILL:

SITE BUILDING PAD EXCAVATION AND EMBANKMENT SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATION AND APPROVAL

PLANS FOR THE CONSTRUCTION OF A COMMERCIAL BUILDING FOR:
7450 TYLER'S PLACE BOULEVARD



PROPOSED SITE



LOCATION MAP

CIVIL ENGINEERING:

EVANS ENGINEERING
4240 AIRPORT RD. #211
CINCINNATI, OHIO 45226
513-321-2168
JONATHAN R. EVANS, P.E.

SURVEYING:

LAND CONSULTANTS
555 GEST STREET SUITE 200
CINCINNATI, OHIO 45203
513-381-1020
FAX 513-381-1070

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- C-2 EXISTING CONDITIONS & DEMO PLAN
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- C-4 GRADING PLAN
- C-5 STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

CONSTRUCTION SEQUENCE:

THE CONSTRUCTION SEQUENCING FOR SITE WORK SHOULD BE SIMILAR IN NATURE TO THE FOLLOWING:

1. A PRE-CONSTRUCTION MEETING BETWEEN THE OWNER AND THE OWNERS' CONTRACTOR SHALL OCCUR PRIOR TO ANY WORK BEING PERFORMED ON THE OUTLOT
2. CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT PERIMETER CONTROL MEASURES.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
4. GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA.
5. INSTALL STORMWATER MANAGEMENT SYSTEMS.
6. TEMPORARY VEGETATIVE STABILIZATION OR EROSION AND SEDIMENT CONTROL MEASURES.
7. INSTALLATION OF ALL UTILITIES
8. SITE CONSTRUCTION.
9. FINAL GRADING, STABILIZATION, AND LANDSCAPING.
10. REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

DEPARTMENT/ UTILITY TABLE:

DUKE ENERGY-ELECTRIC
JOE ZUERNER
CINCINNATI, OHIO 45216
TEL: 513-287-4718
JOSEPH.ZUERNER@duke-energy.com

TIME WARNER CABLE
CABLE
11252 CORNELL PARK DR.
CINCINNATI, OH 45241
TEL: 513-469-1112

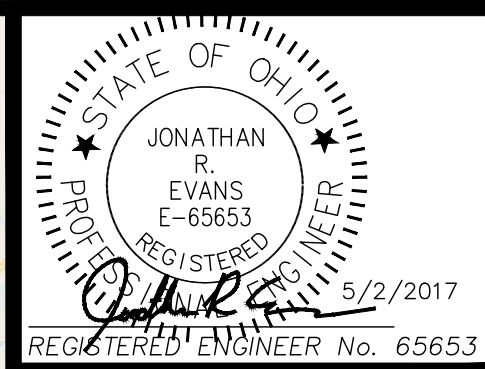
BUTLER COUNTY BUILDING
DEPARTMENT
130 HIGH STREET
HAMILTON, OH 45011
TEL: 513-887-3205

BUTLER COUNTY WATER & SEWER
TIM MCQUEEN
130 HIGH STREET
HAMILTON, OH 45011
TEL: 513-785-5168
FAX: 513-887-3777

DUKE ENERGY-GAS
HEATHER STAMPER
CINCINNATI, OHIO 45216
513-287-4635
HEATHER.STAMPER@duke-energy.com

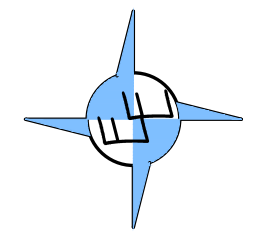
WEST CHESTER TOWNSHIP
PLANNING AND ZONING DEVELOPMENT
TIM DAWSON
9113 CINCINNATI-DAYTON RD.
WEST CHESTER, OH 45069
TEL: (513) 759-7333
TDawson@WestChesterOH.org

BUTLER COUNTY ENGINEER
COUNTY ENGINEER
1921 FAIRGROVE AVE.
HAMILTON, OH 45011
TEL: 513-785-4142
TERESA BARNES, P.E.



REVISIONS	NO. & DESCRIPTION
BY	
DATE	

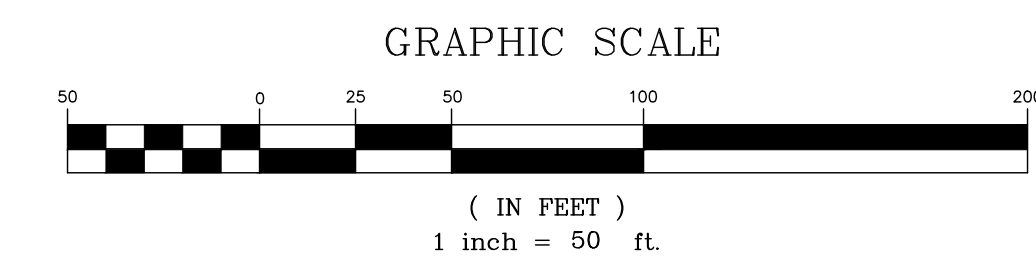
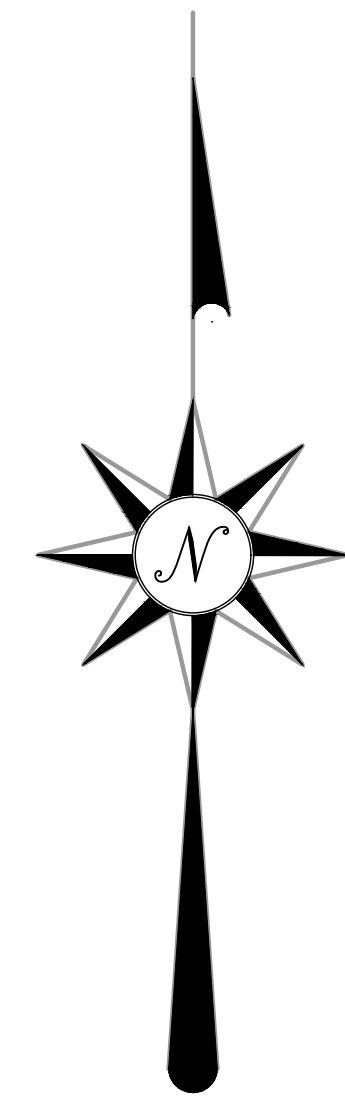
EVANS ENGINEERING
4240 AIRPORT ROAD, SUITE 211
CINCINNATI, OHIO 45226
(513) 321-2168
(513) 321-2173 FAX
ATTN: JONATHAN R. EVANS, P.E.

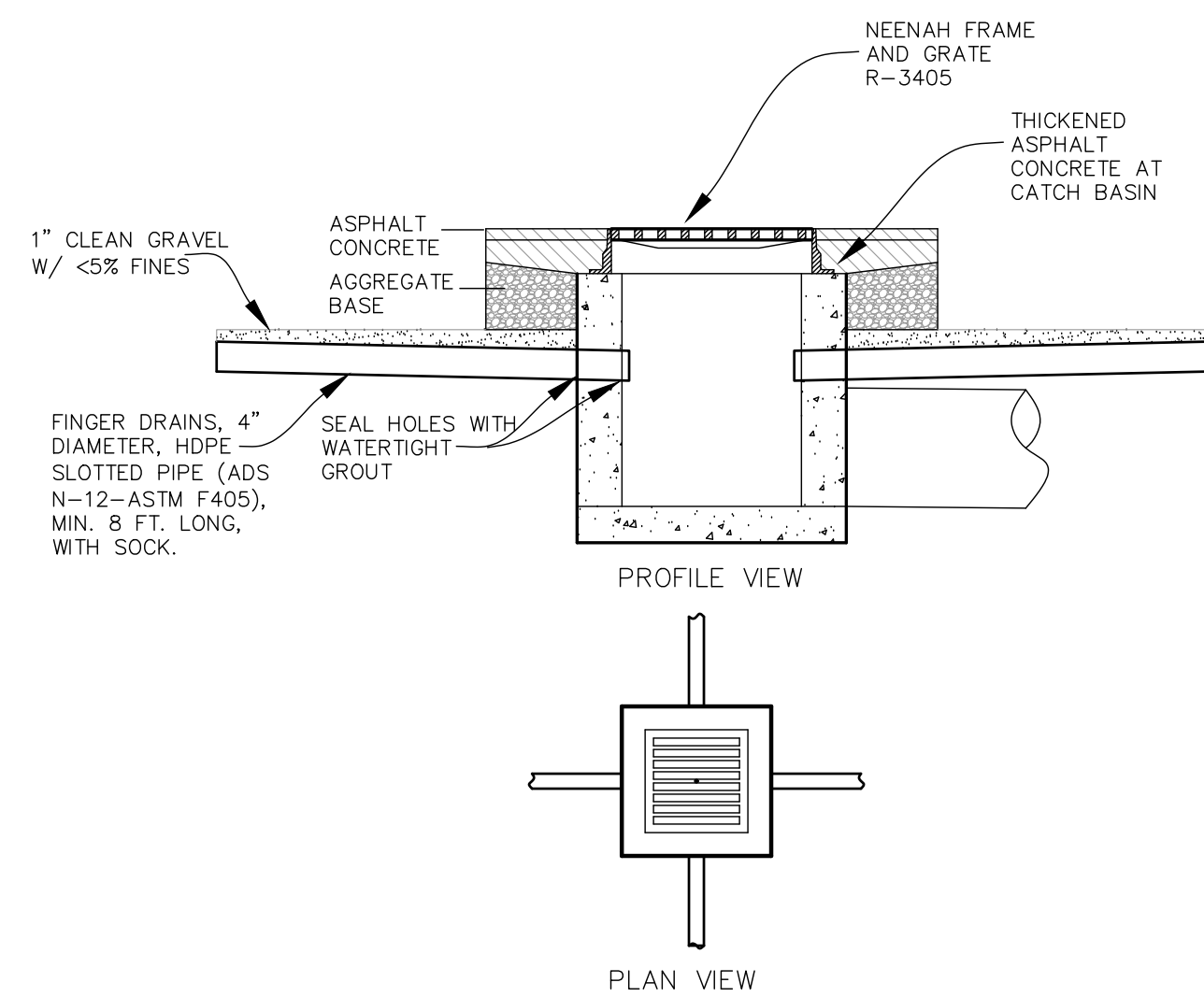


TITLE SHEET & GENERAL NOTES
7450 TYLERS PLACE BOULEVARD
WEST CHESTER TOWNSHIP, BUTLER COUNTY, OHIO 45069

SCALE:	HORIZ.	VERT.
	1"=50'	N/A
JOB NO.	16-138	
DATE	May. 2, 2017	

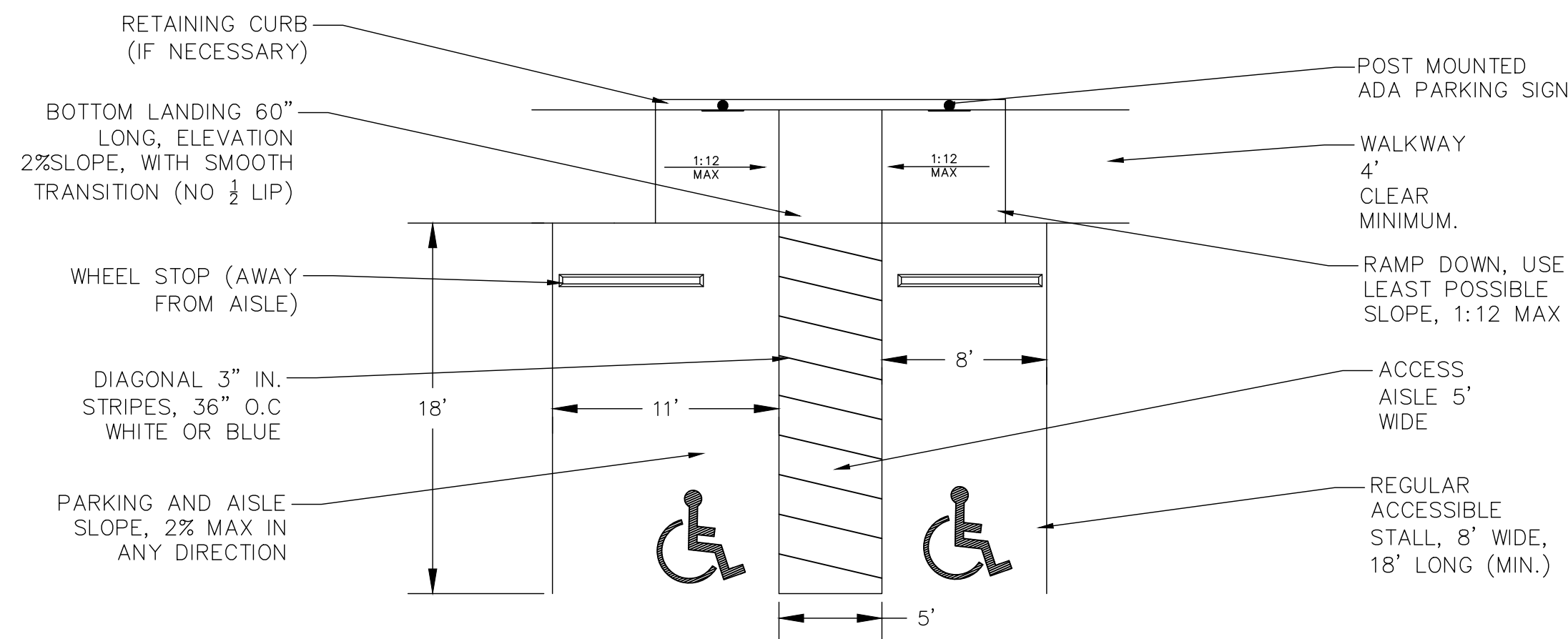
SHEET NO.
C-1



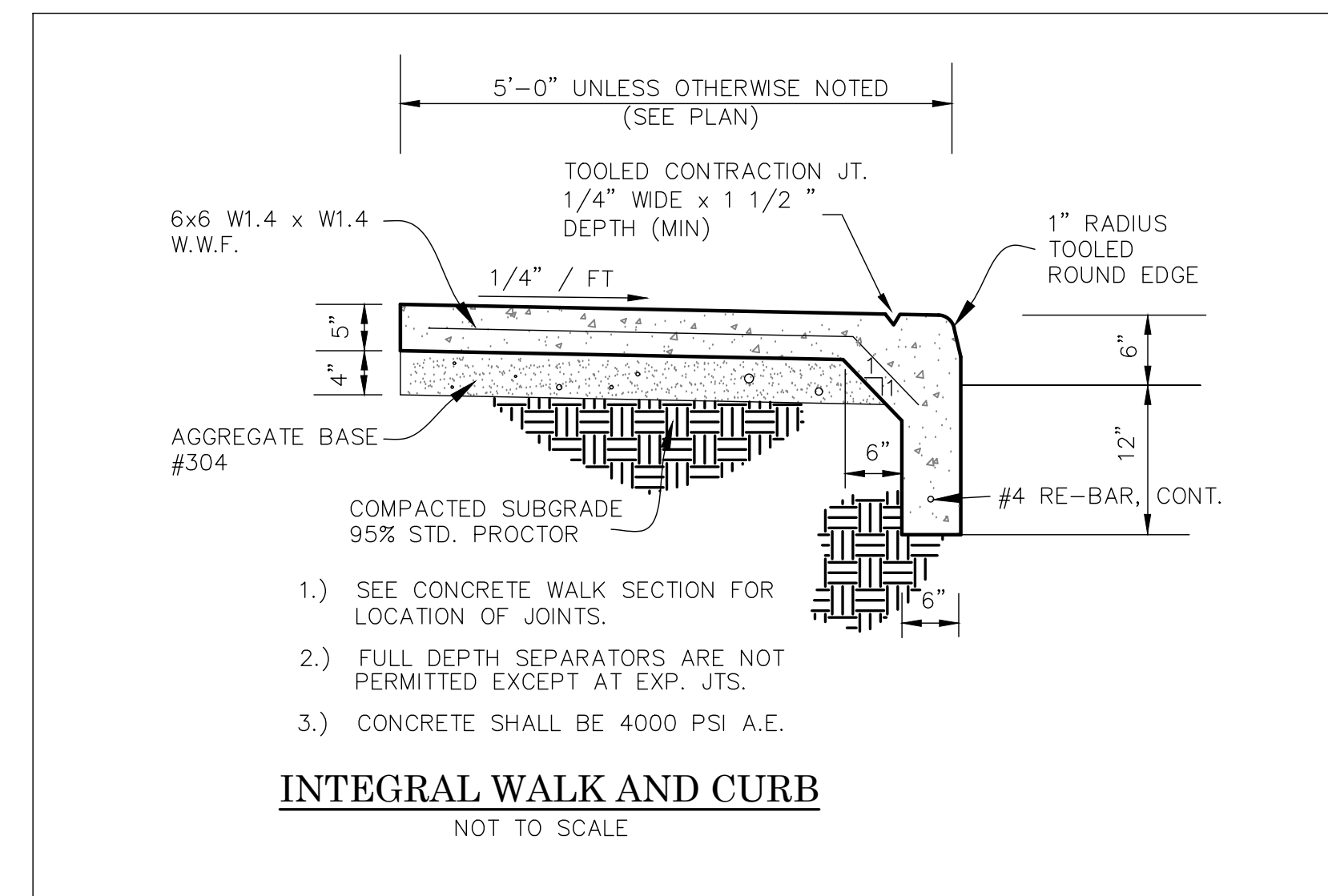


- NOTES:**
1. PIPE TO BE HDPE SLOTTED-ADS N-12, ASTM F405 (OR EQUAL)
 2. SLOPE PIPE AND TRENCH BOTTOM FOR POSITIVE DRAINAGE TO INLET-2% RECOMMENDED.
 3. WRAP EACH SLOTTED PIPE IN FILTER SOCK.
 4. FRAME AND GRATE SHALL BE NEENAH R-3405. (HEAVY DUTY FRAME AND GRATE)
 5. FINGER DRAIN TO BE OMITTED WHEN THERE IS A CONFLICT BETWEEN INLET/OUTLET PIPE ELEVATIONS AND FINGER DRAIN.
 6. HOLE FOR FINGER DRAIN SHALL BE SEALED WITH WATERTIGHT GROUT.

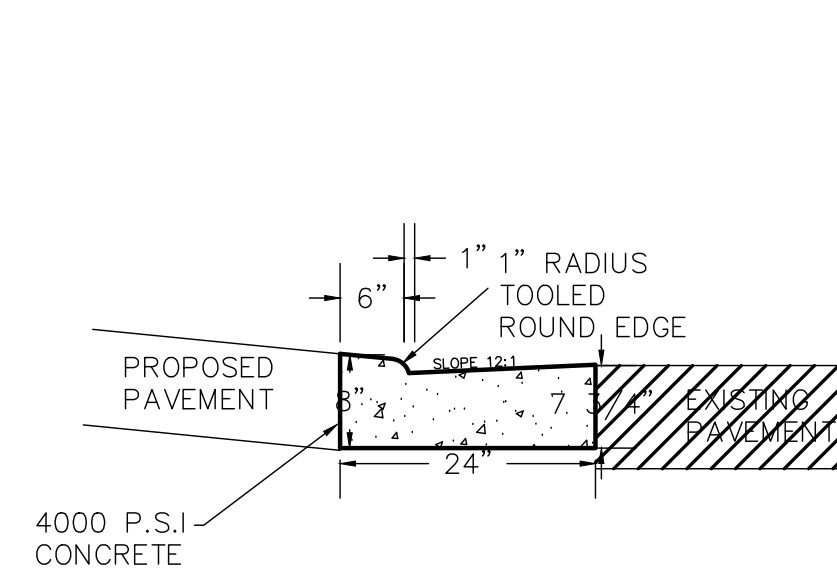
DETAIL AT CATCH BASIN IN PAVEMENT
NOT TO SCALE



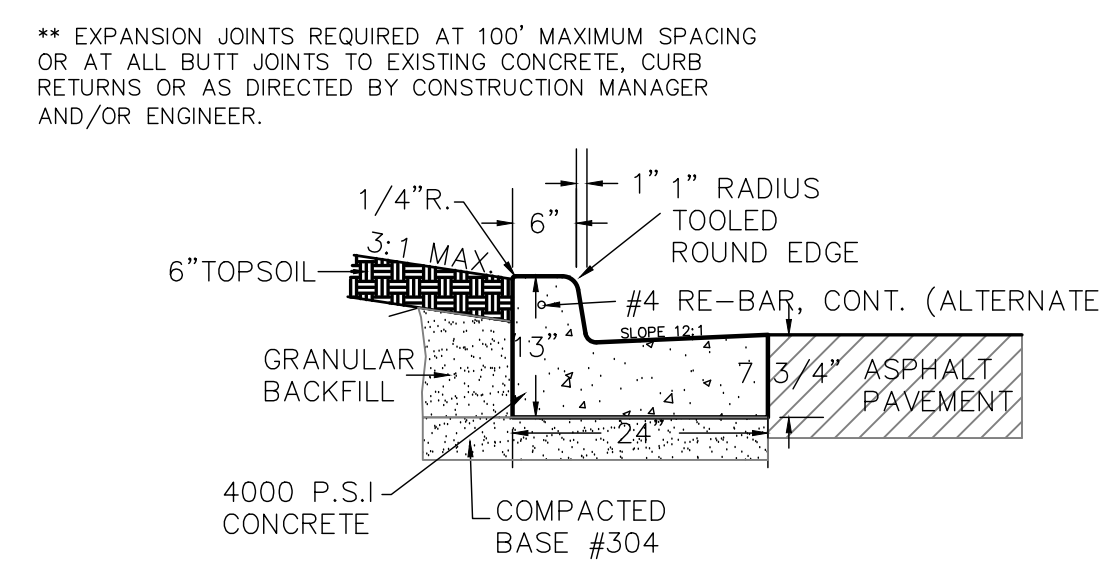
DEPRESSED CURB RAMP AT ACCESSIBLE PARKING (TYP.)
NOT TO SCALE



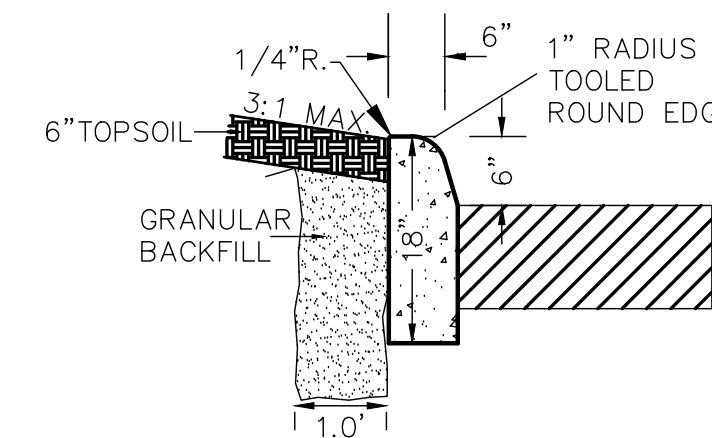
INTEGRAL WALK AND CURB
NOT TO SCALE



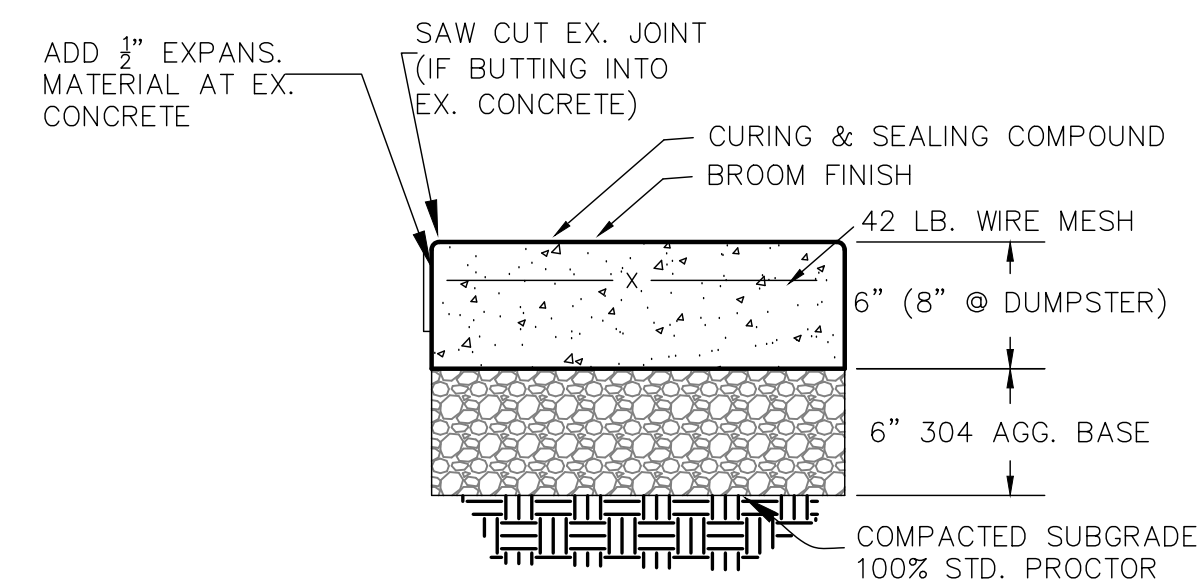
DEPRESSED CURB & GUTTER
NOT TO SCALE



24" CONCRETE CURB & GUTTER
NOT TO SCALE

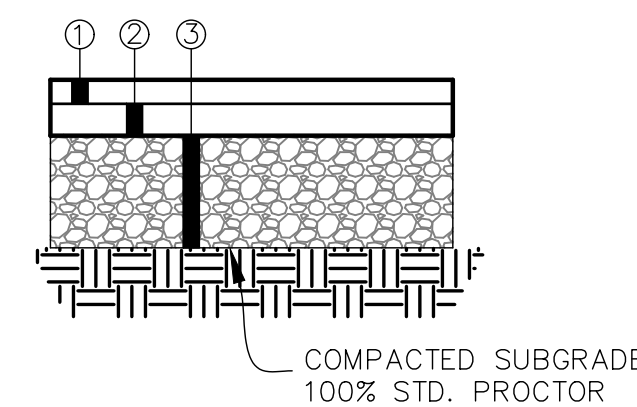


18" STRAIGHT CURB
NOT TO SCALE



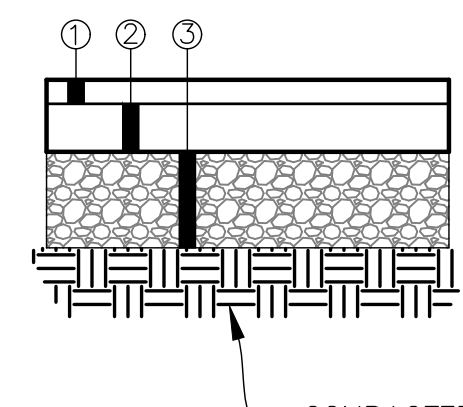
- 1.) CONTROL JOINTS 10' O.C. MAX (EACH DIRECTION).
- 2.) PRE-FORMED EXPANSION JOINTS 30' O.C. MAX. & WHERE ABUTS CONCRETE
- 3.) CONCRETE SHALL BE 4000 PSI A.E.

CONCRETE PAVING DETAIL
NOT TO SCALE



- ① - 1 1/2" ODOT 448, TYPE 1, MED. BITUMINOUS SURFACE COURSE
- ② - 2" ODOT 448, TYPE 1, MED. BITUMINOUS LEVELING COURSE
- ③ - 6" COMPACTED AGGREGATE BASE-#304 (2 LIFTS)

MEDIUM DUTY ASPHALT PAVING
NOT TO SCALE

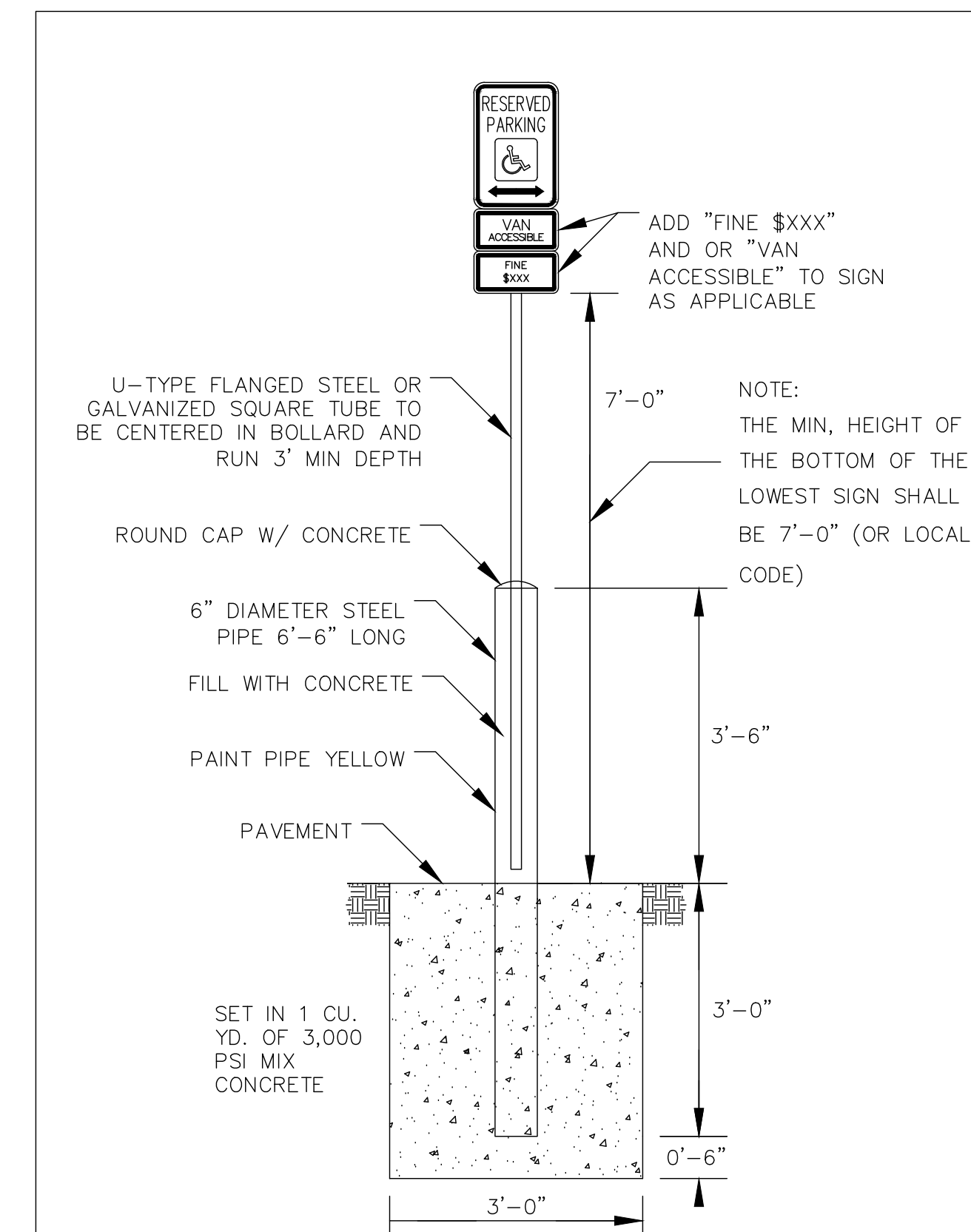


- ① - 1 1/2" ODOT 448, TYPE 1, MED. BITUMINOUS SURFACE COURSE
 - ② - 3 1/2" 448 INTERMEDIATE COURSE ASPHALT
 - ③ - 6" COMPACTED AGGREGATE BASE-#304 (2 LIFTS)
- **ALTERNATE - 1 1/2" ODOT 448 SURFACE ASPHALT
- 3 1/2" 448 INTERMEDIATE COURSE ASPHALT
- 6" COMPACTED AGGREGATE BASE-#304 (2 LIFTS)
- (1) LAYER OF TENSAR TX-160 GEOGRID

HEAVY DUTY ASPHALT PAVING
NOT TO SCALE

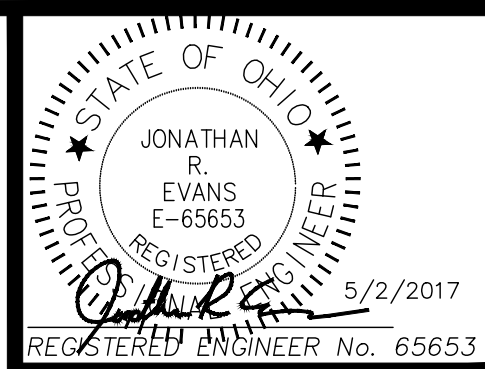
** EXPANSION JOINTS REQUIRED AT 100' MAXIMUM SPACING OR AT ALL BUTT JOINTS TO EXISTING CONCRETE, CURB RETURNS OR AS DIRECTED BY CONSTRUCTION MANAGER AND/OR ENGINEER.

- ADDITIONAL PAVING NOTES:**
- 1) ROADSaver 221; CRAFCO INC.
 - 2) PRODUCT #9005 OR #9030; KOCH MATERIAL COMPANY
 - 3) SEALTIGHT HI-SPEC; W.R. MEADOWS, INC.
- AFTER BITUMINOUS PAVEMENT HAS BEEN REPLACED, SAWCUT OR ROUTE JOINT BETWEEN EXISTING AND NEW PAVEMENT AND FILL WITH HOT Poured RUBBER JOINT SEALER PRODUCT. HOT Poured RUBBER JOINT SEALER SHALL BE ONE OF THE FOLLOWING OR AN APPROVED EQUAL:



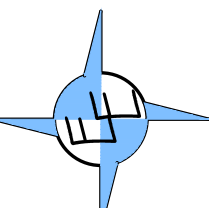
- NOTES:**
1. A.D.A. SIGN TYPE: A. 18"x12" B. 9"x12"
 2. "FINE" AND/OR "VAN ACCESSIBLE" SIGN TO BE INSTALLED BASED ON LOCAL CODE
 3. ALL SIGNS SHALL COMPLY WITH U.S. ADMINISTRATIONS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES," LOCAL CODES AND AS SPECIFIED, MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

ADA PARKING SIGN DETAIL
NOT TO SCALE



REVISIONS	NO. & DESCRIPTION
BY	
DATE	

EVANS ENGINEERING
4240 AIRPORT ROAD, SUITE 211
CINCINNATI, OHIO 45226
(513) 821-2168
(513) 821-2173 FAX
ATTN: JONATHAN R. EVANS, P.E.

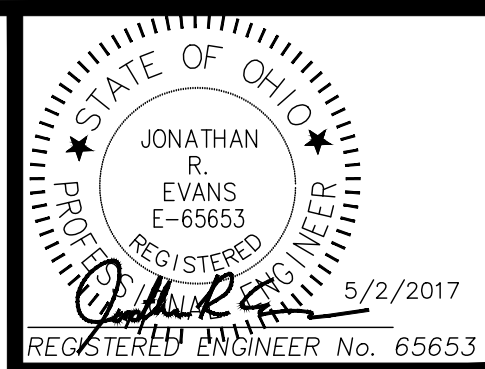


SITE CONSTRUCTION DETAILS
7450 TYLERS PLACE BOULEVARD
WEST CHESTER TOWNSHIP, BUTLER COUNTY, OHIO 45069

SCALE:	HORIZ.	VERT.
	N/A	N/A
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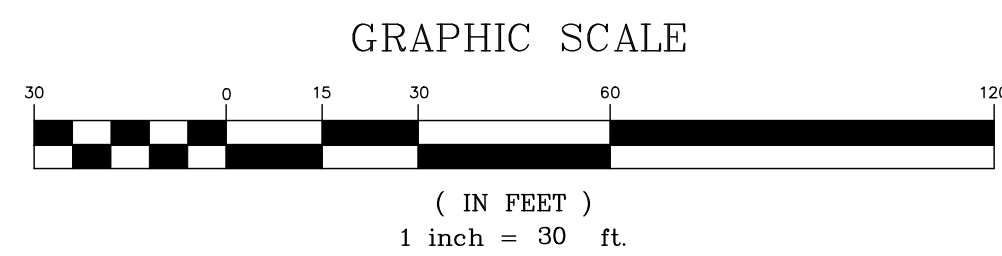
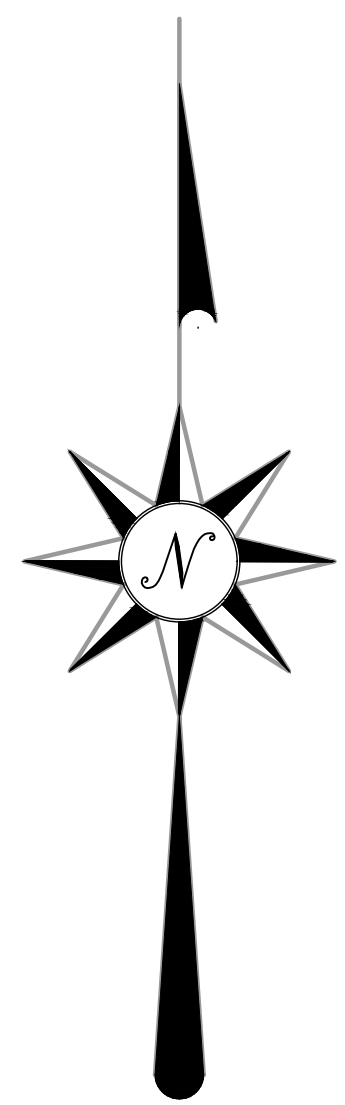
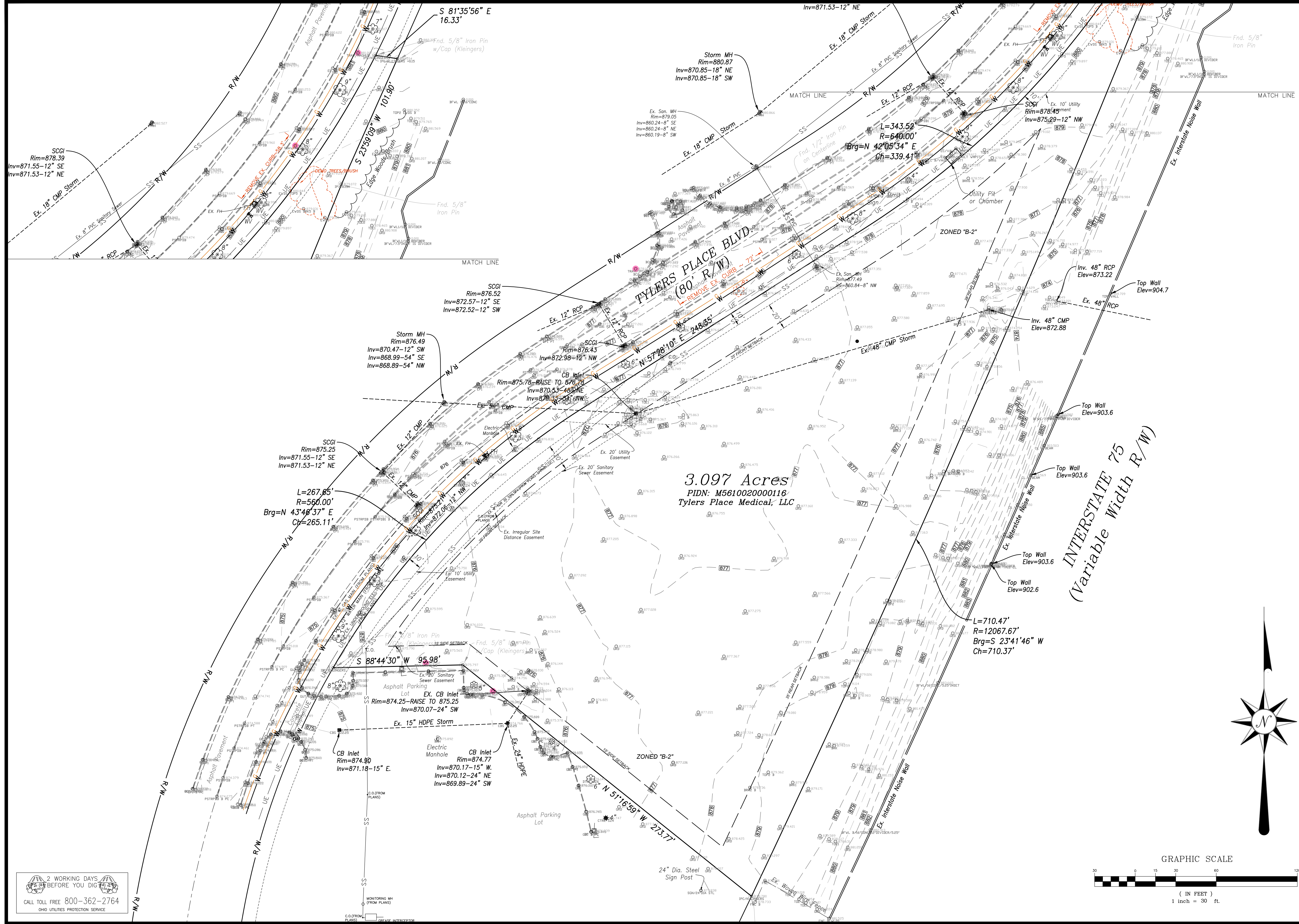


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NO. & DESCRIPTION	DATE

EVANS ENGINEERING
 4240 AIRPORT ROAD, SUITE 211
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 (513) 821-2168
 (513) 821-2173 FAX
 ATTN: JONATHAN R. EVANS, P.E.

EXISTING CONDITIONS & DEMO PLAN
 7450 TYLERS PLACE BOULEVARD
 WEST CHESTER TOWNSHIP, BUTLER COUNTY, OHIO 45069

SCALE:	HORIZ.	VERT.
	1"=30'	N/A
JOB NO.	16-138	
DATE	May. 2, 2017	
SHEET NO.		
C-2		



2 WORKING DAYS BEFORE YOU DIG
 CALL TOLL FREE 800-362-2764
 OHIO UTILITIES PROTECTION SERVICE

LEGEND-PROP. FEATURES

- PROPOSED DOMESTIC WATER SERVICE (3" LINE)
- PROPOSED FIRE SPRINKLER LINE (6" LINE)
- ALL WATER LINES TO HAVE A MINIMUM OF 42" OF COVER
- PROPOSED 6" SANITARY LATERAL PVC SDR 35 @ 2.08% MIN.
- PROPOSED UNDERGROUND ELECTRIC SERVICE
- PROPOSED ELECTRIC TRANSFORMER
- PROPOSED UNDERGROUND TELEPHONE SERVICE
- PROPOSED GAS SERVICE (SIZE TBD BY USE)
- INSTALL 4" CONDUIT WITH PULL STRING AND LOCATOR WIRE
- PROPOSED UNDERGROUND CABLE CONDUIT
- PR. DOWNSPOUT
- PR. 8" SDR 35 ROOF DRAIN @ 2.08% (OR SLOPED AS NOTED)
- PR. LIGHTING; SEE LIGHTING PLANS (BY OTHERS)
- METAL BENCHES PROVIDED BY OWNER, INSTALLED BY CONTRACTOR

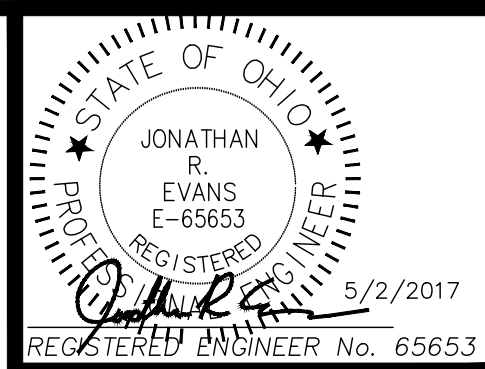
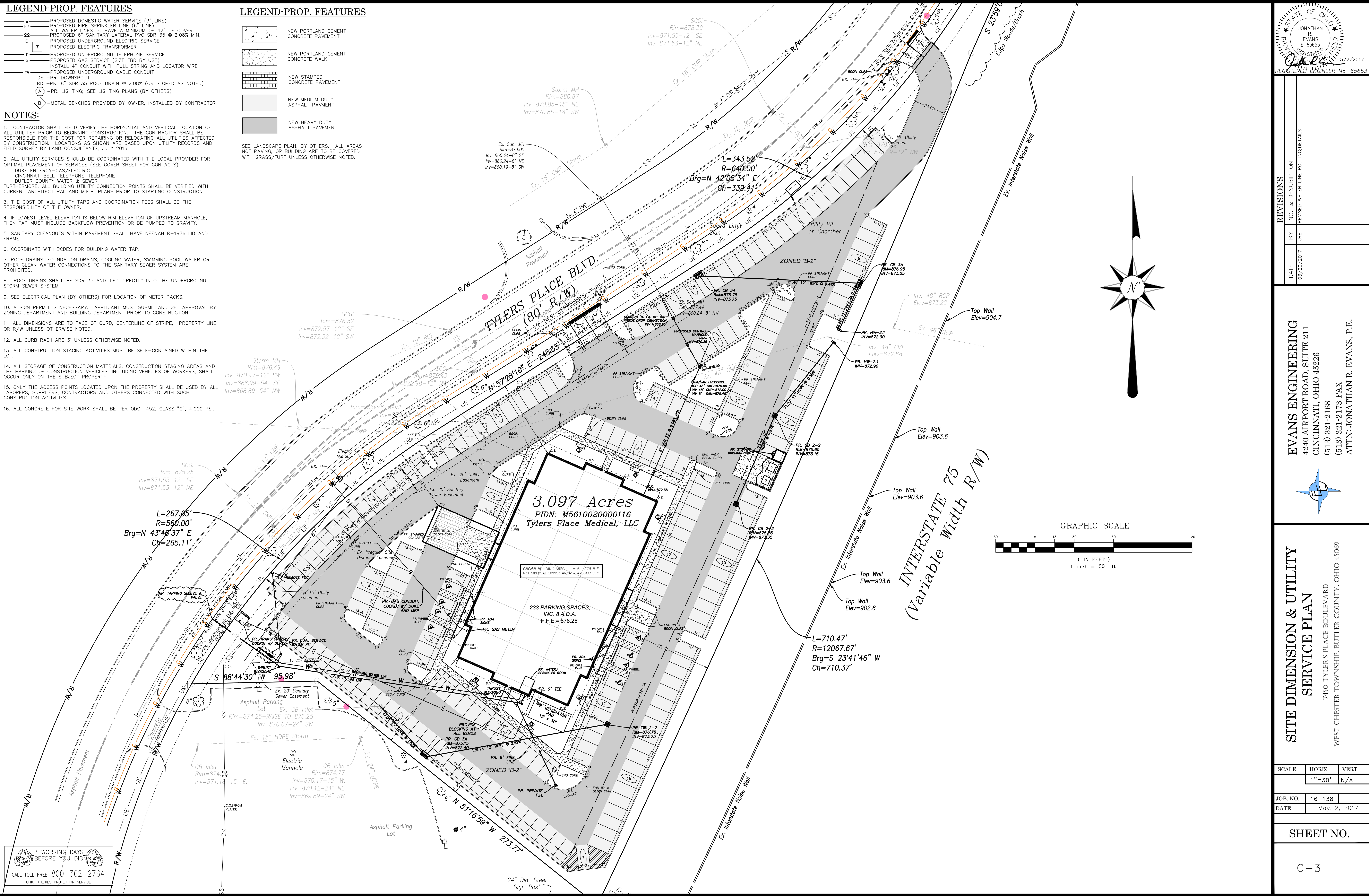
NOTES:

1. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST FOR REPAIRING OR RELOCATING ALL UTILITIES AFFECTED BY CONSTRUCTION. LOCATIONS AS SHOWN ARE BASED UPON UTILITY RECORDS AND FIELD SURVEY BY LAND CONSULTANTS, JULY 2016.
2. ALL UTILITY SERVICES SHOULD BE COORDINATED WITH THE LOCAL PROVIDER FOR OPTIMAL PLACEMENT OF SERVICES (SEE COVER SHEET FOR CONTACTS).
DUKE ENERGY-GAS/ELECTRIC
CINCINNATI BELL-TELEPHONE-TELEPHONE
BUTLER COUNTY WATER & SEWER
FURTHERMORE, ALL BUILDING UTILITY CONNECTION POINTS SHALL BE VERIFIED WITH CURRENT ARCHITECTURAL AND M.E.P. PLANS PRIOR TO STARTING CONSTRUCTION.
3. THE COST OF ALL UTILITY TAPS AND COORDINATION FEES SHALL BE THE RESPONSIBILITY OF THE OWNER.
4. IF LOWEST LEVEL ELEVATION IS BELOW RIM ELEVATION OF UPSTREAM MANHOLE, THEN TAP MUST INCLUDE BACKFLOW PREVENTION OR BE PUMPED TO GRAVITY.
5. SANITARY CLEANOUTS WITHIN PAVEMENT SHALL HAVE NEENAH R-1976 LID AND FRAME.
6. COORDINATE WITH BCDES FOR BUILDING WATER TAP.
7. ROOF DRAINS, FOUNDATION DRAINS, COOLING WATER, SWIMMING POOL WATER OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
8. ROOF DRAINS SHALL BE SDR 35 AND TIED DIRECTLY INTO THE UNDERGROUND STORM SEWER SYSTEM.
9. SEE ELECTRICAL PLAN (BY OTHERS) FOR LOCATION OF METER PACKS.
10. A SIGN PERMIT IS NECESSARY. APPLICANT MUST SUBMIT AND GET APPROVAL BY ZONING DEPARTMENT AND BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.
11. ALL DIMENSIONS ARE TO FACE OF CURB, CENTERLINE OF STRIPE, PROPERTY LINE OR R/W UNLESS OTHERWISE NOTED.
12. ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED.
13. ALL CONSTRUCTION STAGING ACTIVITIES MUST BE SELF-CONTAINED WITHIN THE LOT.
14. ALL STORAGE OF CONSTRUCTION MATERIALS, CONSTRUCTION STAGING AREAS AND THE PARKING OF CONSTRUCTION VEHICLES, INCLUDING VEHICLES OF WORKERS, SHALL OCCUR ONLY ON THE SUBJECT PROPERTY.
15. ONLY THE ACCESS POINTS LOCATED UPON THE PROPERTY SHALL BE USED BY ALL LABORERS, SUPPLIERS, CONTRACTORS AND OTHERS CONNECTED WITH SUCH CONSTRUCTION ACTIVITIES.
16. ALL CONCRETE FOR SITE WORK SHALL BE PER ODOT 452, CLASS "C", 4,000 PSI.

LEGEND-PROP. FEATURES

- NEW PORTLAND CEMENT CONCRETE PAVEMENT
- NEW PORTLAND CEMENT CONCRETE WALK
- NEW STAMPED CONCRETE PAVEMENT
- NEW MEDIUM DUTY ASPHALT PAVEMENT
- NEW HEAVY DUTY ASPHALT PAVEMENT

SEE LANDSCAPE PLAN, BY OTHERS. ALL AREAS NOT PAVED, OR BUILDING ARE TO BE COVERED WITH GRASS/TURF UNLESS OTHERWISE NOTED.



REVISIONS	NO. & DESCRIPTION	BY	DATE
1	REVISED WATER LINE ROUTING DETAILS	JRE	03/20/2017

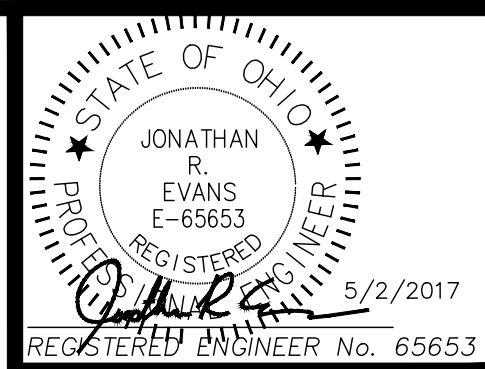
EVANS ENGINEERING
 4240 AIRPORT ROAD, SUITE 211
 CINCINNATI, OHIO 45226
 (513) 321-2168
 (513) 321-2173 FAX
 ATTN: JONATHAN R. EVANS, P.E.

SITE DIMENSION & UTILITY SERVICE PLAN
 7450 TYLERS PLACE BOULEVARD
 WEST CHESTER TOWNSHIP, BUTLER COUNTY, OHIO 45069

SCALE:	HORIZ.	VERT.
	1"=30'	N/A
JOB NO.	16-138	
DATE	May. 2, 2017	

SHEET NO.
 C-3





GRADING LEGEND

- TC=TOP OF CURB ELEVATION
- P=FINISHED GRADE (PAVEMENT)
- F=FINISHED GRADE
- TW=TOP OF WALL
- BW=BOTTOM OF WALL

- B/C=EXISTING BACK OF CURB GRADE
- B/W=EXISTING BACK OF WALL GRADE
- EX.=EXISTING GRADE

GEOTECHNICAL NOTES:

1. THE CONTRACTOR SHALL USE THE "SUBSURFACE EXPLORATION & GEOTECHNICAL RECOMMENDATIONS" AS PREPARED BY ALT & WITZIG ENGINEERING, INC., DATED AUGUST 16, 2016 AND ANY SUBSEQUENT CORRESPONDENCE BY (AWEI) AS THE TECHNICAL GUIDE FOR EARTHWORK OPERATIONS.
2. ALL GRADES SHOWN ON PLANS ARE FINAL, FINISHED GRADE.
3. EXISTING TOPSOIL MATERIALS AND STUMPS SHALL BE STRIPPED/REMOVED FROM THE CONSTRUCTION AREA AND WASTED OR STOCKPILED FOR REUSE LATER. THE EXACT DEPTH OF STRIPPING SHOULD BE DETERMINED BY A REPRESENTATIVE OF THE GEOTECHNICAL FIRM IN THE FIELD AT THE TIME OF STRIPPING. STUMPS SHALL BE DISPOSED OF PER LOCAL RULES AND REGULATIONS.
4. EXPOSED SUBGRADE SHALL BE PROOFROLLED TO DETERMINE ANY AREAS OF SOFT UNSUITABLE MATERIAL, PRIOR TO REFILLING.
5. IF UNSTABLE SOILS ARE ENCOUNTERED THE PROJECT GEOTECHNICAL ENGINEER SHALL BE CONSULTED FOR RECOMMENDED PROCEDURES TO PROVIDE FOR THE PROPER REMOVAL AND REPLACEMENT WITH SUITABLE FILL MATERIAL.
6. RECOMMENDED SPECIFICATIONS FOR COMPACTED FILLS AND BACKFILLS:

ALL FILLS SHALL BE FORMED FROM MATERIAL FREE OF VEGETABLE MATTER, RUBBISH, LARGE ROCK, AND OTHER DELETERIOUS MATERIAL. PRIOR TO PLACEMENT OF FILL, A SAMPLE OF THE PROPOSED FILL MATERIAL SHOULD BE SUBMITTED TO THE SOIL ENGINEER FOR HIS APPROVAL AND STANDARD PROCTOR TEST. THE FILL MATERIAL SHOULD BE PLACED IN LAYERS NOT TO EXCEED EIGHT (8") INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER, OR DRIED, AS REQUIRED TO SECURE SPECIFIED COMPACTIONS. EACH LAYER SHOULD BE UNIFORMLY COMPACTED BY MEANS OF SUITABLE EQUIPMENT OF THE TYPE REQUIRED BY THE MATERIALS COMPOSING THE FILL (SHEEPSFOOT ROLLER FOR CLAYEY SOILS). UNDER NO CIRCUMSTANCES SHOULD TRACKED VEHICLES BE USED AS COMPACTING EQUIPMENT. MATERIAL CONTAINING AN EXCESS OF WATER SO THE SPECIFIED COMPACTION LIMITS CANNOT BE ATTAINED SHOULD BE SPREAD AND DRIED TO A MOISTURE CONTENT THAT WILL PERMIT PROPER COMPACTION. ALL FILL SHOULD BE COMPACTED TO THE SPECIFIED PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM DENSITY TEST D-698 (98% OF THE MAXIMUM DRY DENSITY). SHOULD THE RESULTS OF THE IN-PLACE DENSITY TEST INDICATE THAT THE SPECIFIED COMPACTION LIMITS ARE NOT OBTAINED, THE AREAS REPRESENTED BY SUCH TESTS SHOULD BE REMOVED AND REPLACED OR REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED MINIMUMS ARE REACHED.

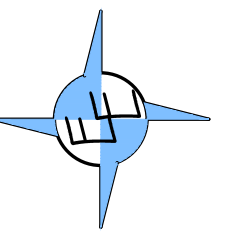
7. THE OWNER OR OWNER'S AGENT SHOULD RETAIN THE SERVICES OF A GEOTECHNICAL/TESTING FIRM (ALT & WITZIG), WHO SHOULD BE SCHEDULED BY THE CONTRACTOR 24 HOURS PRIOR TO ANY WORKING DAY. NO FILL MAY BE PLACED WITHOUT NOTIFICATION OF TESTING FIRM. OWNER TO DETERMINE ACTUAL FREQUENCY OF TESTING. DESIGNER RECOMMENDS FULL-TIME OBSERVATION/TESTING.

SPECIAL NOTES:

- CONTRACTOR SHALL CONSULT WITH GEOTECHNICAL ENGINEER BEFORE COMMENCING EARTHMOVING ACTIVITIES.
- TOPSOIL ~6" SHOULD BE DISTRIBUTED BACK ACROSS LANDSCAPE AREAS PRIOR TO SEEDING.
- CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. EXPORTED MATERIAL SHALL BE TRANSPORTED TO AN APPROVED FILL AREA.
- FLEXSTORM INLET FILTERS SHALL BE USED DURING CONSTRUCTION FOR TEMPORARY SEDIMENT CONTROL, AND SHALL REMAIN IN PLACE POST-CONSTRUCTION AS A WATER QUALITY MEASURE. (SEE DETAIL SHEET C-5)

REVISIONS	NO. & DESCRIPTION
BY	
DATE	

EVANS ENGINEERING
 4240 AIRPORT ROAD, SUITE 211
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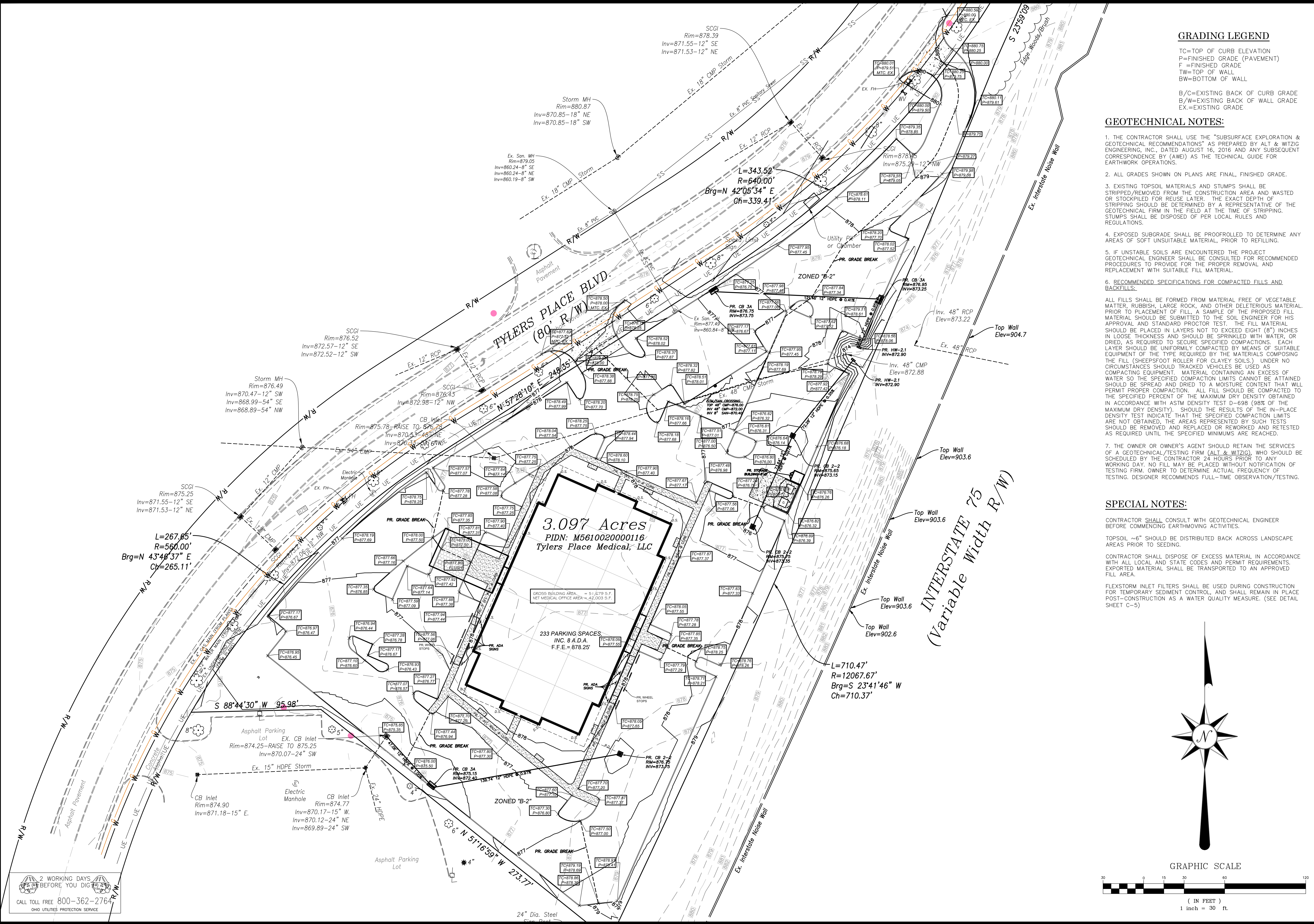


GRADING PLAN
 7450 TYLERS PLACE BOULEVARD
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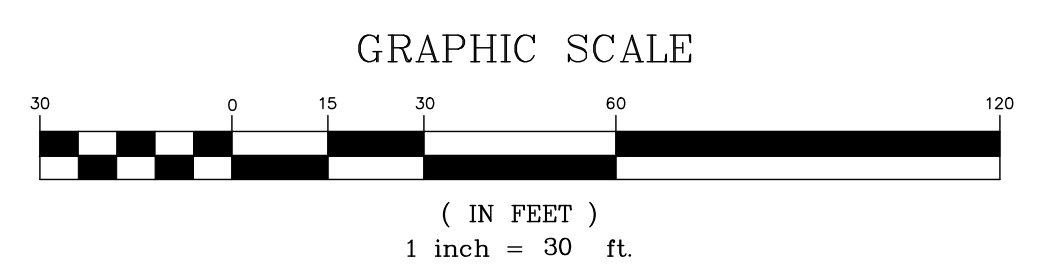
SCALE:	HORIZ.	VERT.
	1"=30'	N/A
JOB NO.	16-138	
DATE	May. 2, 2017	

SHEET NO.

C-4



2 WORKING DAYS BEFORE YOU DIG
 CALL TOLL FREE 800-362-2764
 OHIO UTILITIES PROTECTION SERVICE



EROSION AND SEDIMENT CONTROL NOTES:

PRE-CONSTRUCTION:

- THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITIES AND, UNLESS WAIVED BY THE UTILITY, WILL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES FROM STORM WATER MANAGEMENT UTILITY (SMU).
- THE CONTRACTOR SHALL NOTIFY SMU BY TELEPHONE AT THE FOLLOWING POINTS:
 - THE REQUIRED PRE-CONSTRUCTION MEETING.
 - FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
 - PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE.
 - PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES.
 - PRIOR TO FINAL ACCEPTANCE.
- A COPY OF THE APPROVED SEDIMENT AND EROSION CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY AN SMU REPRESENTATIVE PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES.
- THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE AN EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM AN SMU REPRESENTATIVE.
- THE CONTRACTOR MUST OBTAIN APPROVAL FROM SMU BEFORE ANY CHANGES TO THE SEDIMENT CONTROL PLAN AND/OR SEQUENCE OF CONSTRUCTION ARE IMPLEMENTED UNLESS IMMEDIATE ACTION IS NECESSARY. IN THIS CASE, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIMES AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM AN SMU REPRESENTATIVE. THE CONTRACTOR SHALL KEEP WRITTEN RECORDS OF ALL SEDIMENT AND EROSION CONTROL INSPECTIONS AND MAINTENANCE FOR THE DURATION OF THE PROJECT. THIS INFORMATION MUST BE MADE AVAILABLE TO SMU REPRESENTATIVES UPON REQUEST.

SAFETY:

- THE SMU SITE REPRESENTATIVE ALWAYS HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES IF DEEMED NECESSARY.
- WHERE DEEMED APPROPRIATE BY THE ENGINEER OR INSPECTOR, BASINS AND TRAPS MAY NEED TO BE SURROUNDED WITH AN APPROVED SAFETY FENCE. THE FENCE MUST CONFORM TO LOCAL ORDINANCES AND REGULATIONS. THE DEVELOPER OR OWNER SHALL CHECK WITH LOCAL BUILDING OFFICIALS ON APPLICABLE SAFETY REQUIREMENTS. WHERE SAFETY FENCE IS DEEMED APPROPRIATE AND LOCAL ORDINANCES DO NOT SPECIFY FENCING SIZES AND TYPES, THE FOLLOWING SHALL BE USED AS A MINIMUM STANDARD: THE SAFETY FENCE MUST BE MADE OF WELDED WIRE AND AT LEAST FORTY TWO (42) INCHES HIGH. HAVE POSTS SPACED NO FARTHER APART THAN EIGHT (8) FEET, HAVE MESH OPENINGS NO GREATER THAN TWO (2) INCHES IN WIDTH AND FOUR (4) INCHES IN HEIGHT WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED AND IN GOOD CONDITION AT ALL TIMES.
- STORM DRAIN INLETS IN NON-SUMP AREAS SHALL HAVE TEMPORARY ASPHALT PADS CONSTRUCTED AT THE TIME OF BASE PAVING TO DIRECT GUTTER FLOW INTO THE INLETS TO AVOID SURCHARGING AND OVERFLOW OF INLETS IN SUMP AREAS.
- STOCKPILE SLOPES SHALL NOT BE STEEPER THAN 2:1.

STABILIZED CONSTRUCTION ENTRANCE:

- THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY USING A STREET SWEEPER OR SCRAPER. DEBRIS SHALL NOT BE WASHED OFF PAVED SURFACES OR INTO STORM DRAINS.

- CONSTRUCTION ENTRANCES SHOULD NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES. VEHICLES THAT ENTER AND LEAVE THE SITE SHALL BE RESTRICTED FROM MUDDY AREAS OR CLEANED BEFORE LEAVING SITE.

SEDIMENT TRAPS AND BASINS:

- SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN TWENTY (20) FEET OR AN EXISTING OR PROPOSED FOUNDATION OR TRAFFIC AREA. NO STRUCTURE MAY BE CONSTRUCTED WITHIN TWENTY (20) FEET OF AN ACTIVE SEDIMENT TRAP OR BASIN.
- SEDIMENT TRAPS AND BASINS MUST HAVE STABLE INFLOW AND OUTFLOW POINTS SO THAT WATER CAN DISCHARGE WITHOUT CAUSING EROSION.
- SEDIMENT BASINS/TRAPS SHALL NOT BE GREATER THAN FOUR (4) FEET IN DEPTH.
- SEDIMENT MUST BE CLEANED, AND THE TRAP/BASIN RESTORED TO ITS ORIGINAL DIMENSIONS, WHEN ACCUMULATION REACHES A HEIGHT HALF-WAY UP TO THE TOP OF THE DESIGNED HOLDING AREA.
- SEDIMENT REMOVED FROM TRAPS AND BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR VEGETATION PRESERVATION AREA.
- WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO A SEDIMENT TRAPPING DEVICE PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM, STABLE GROUND SURFACE, OR RELEASE FROM THE SITE.
- SEDIMENT BASINS MUST BE REMOVED WITHIN THIRTY SIX (36) MONTHS AFTER THEIR CONSTRUCTION.

- OHIO DAM SAFETY LAWS APPLY TO BASINS LARGER THAN FIFTEEN (15) ACRE-FEET (24,000 CY) AS MEASURED TO THE TOP OF THE HOLDING AREA.

TEMPORARY & PERMANENT STABILIZATION:

- ALL CRITICAL SLOPES (3:1 OR STEEPER) SHALL BE STABILIZED WITH SOD OR SEED AS SOON AS POSSIBLE BUT NO LATER THAN SEVEN (7) CALENDAR DAYS AFTER ACHIEVING FINAL GRADE.
- ALL AREAS NOT DRAINING TO A FUNCTIONING SEDIMENT BASIN MUST BE FINAL GRADED AND STABILIZED WITH SOD OR SEED WITHIN SEVEN (7) CALENDAR DAYS OF ACHIEVING FINAL GRADE.
- ALL AREAS WITHIN FIFTY (50) FEET OF A STREAM MUST BE STABILIZED WITHIN TWO (2) CALENDAR DAYS OF ACHIEVING FINAL GRADE.
- ALL AREAS THAT ARE TO REMAIN IDELE, INCLUDING STOCK PILES, FOR FOURTEEN (14) CALENDAR DAYS MUST BE STABILIZED WITH SEED OR SOD.
- WHEN THE PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND ANCHORED MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.
- PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING, RIP-RAP, OR BY OTHER APPROVED STABILIZATION MEASURES WITHIN TWO (2) DAYS OR ACHIEVING FINAL GRADE.
- TEMPORARY SEDIMENT CONTROL DEVICES MAY BE REMOVED, WITH PERMISSION OF AN SMU REPRESENTATIVE, THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS.
- STORMWATER MANAGEMENT STRUCTURES, USED TEMPORARILY FOR SEDIMENT CONTROL, SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS.

- FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS TO PREVENT WATER FROM PONDING FOR MORE THAN TWENTY FOUR (24) HOURS AFTER THE END OF A RAINFALL EVENT. DRAINAGE COURSES AND SWALE FLOW AREAS MAY TAKE AS LONG AS FORTY EIGHT (48) HOURS AFTER THE END OF A RAINFALL EVENT TO DRAIN. AREAS DESIGNED TO HAVE STANDING WATER (I.E. RETENTION PONDS) DO NOT HAVE TO MEET THIS REQUIREMENT.
- ALL WASTE AND BORROW AREAS OFF-SITE MUST BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.

OTHER:

- NO SOLID OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. THE CONTRACTOR MUST IMPLEMENT ALL NECESSARY CONTROL MEASURES TO PREVENT THE DISCHARGE OF POLLUTANTS TO THE DRAINAGE SYSTEM OF THE SITE OR SURFACE WATERS. UNDER NO CIRCUMSTANCE SHALL CONCRETE TRUCKS WASH OUT DIRECTLY INTO A DRAINAGE CHANNEL, STORM SEWER OR SURFACE WATER.
- SEDIMENT MUST BE CLEANED FROM SILT FENCES AND MULCH BERMS WHEN ACCUMULATION REACHES A HEIGHT OF HALF-WAY UP TO THE TOP OF THE FENCE/BERM.
- SEDIMENT REMOVED FROM SILT FENCES AND MULCH BERMS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR VEGETATION PRESERVATION AREA.
- ALL SLOPES STEEPER THAN 3:1 REQUIRING GRADE TREATMENT, EITHER STAIR-STEP GRADING, GROUING, FURROWING, OR TRACKING IF THEY ARE TO BE STABILIZED WITH VEGETATION.
- AREAS WITH GRADES LESS STEEP THAN 3:1 SHOULD HAVE THE SOIL SURFACE LIGHTLY ROUGHENED AND LOOSE TO A DEPTH OF TWO (2) TO FOUR (4) INCHES PRIOR TO SEEDING.
- CONSTRUCTION AND DEMOLITION DEBRIS MUST BE DISPOSED OF IN ACCORDANCE WITH OHIO REVISED CODE, CHAPTER 3714.

ADDITIONAL STORMWATER POLLUTION PREVENTION NOTES:

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES "RAINWATER AND LAND DEVELOPMENT" MANUAL, CURRENT EDITION, SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THE DEVELOPER AND CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS SET FORTH IN THE OHIO EPA PERMIT NO. OH0C00003—"AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)."

CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT THE COURSE OF EARTH DISTURBING ACTIVITY. SEDIMENT BASINS AND PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED PRIOR TO GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UP SLOPE DEVELOPMENT AREA IS RESTABILIZED. AS CONSTRUCTION PROGRESSES AND THE TOPOGRAPHY IS ALTERED, APPROPRIATE CONTROLS MUST BE CONSTRUCTED OR EXISTING CONTROLS ALTERED TO ADDRESS THE CHANGING DRAINAGE PATTERNS.

SOIL STOCKPILED MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING TO PREVENT SOIL LOSS.

SILT FENCES AND "INLET FILTERS" ARE TO BE CONTINUOUSLY MAINTAINED BY THE DEVELOPER AND/OR CONTRACTOR UNTIL ALL DANGER OF EROSION/SEDIMENTATION OCCURRING HAS BEEN ELIMINATED.

ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATION ITEM 659, AND PER TABLE LISTED ON THIS SHEET "STABILIZATION."

EXCAVATION CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT MUD AND DEBRIS FROM ENTERING EXISTING STORM SEWERS AND WATER COURSES.

THE CONTRACTOR SHALL KEEP EXISTING PAVEMENT SURROUNDING THE SITE "BROOM CLEAN" AND FREE OF SOIL OR AGGREGATE THAT MIGHT BE BROUGHT OFF-SITE FROM THE OUTLOT ONTO MEJER PROPERTY.

THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREET/PARKING LOT CLEAN BY PREVENTING DEBRIS, MUD, DIRT, ETC. FROM BEING TRACKED ONTO THE STREET/PARKING LOT. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DEBRIS, MUD, ETC. FROM THE STREET IMMEDIATELY WHEN IT OCCURS AND SHALL INSPECT THE STREET AT THE END OF EACH WORKING DAY.

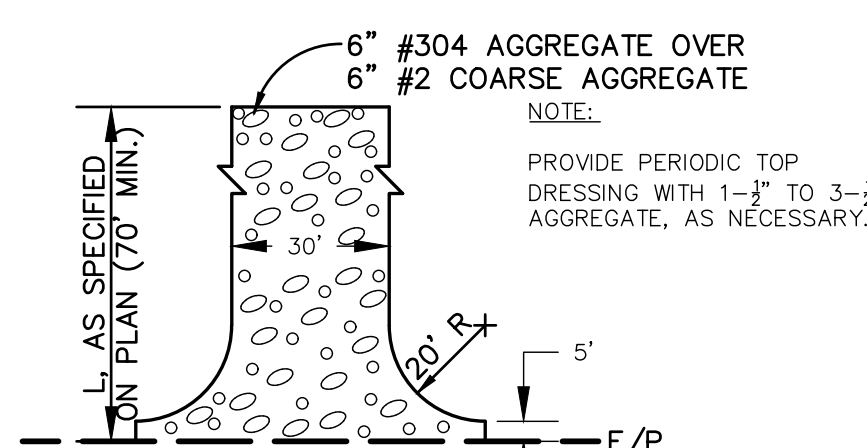
THE DEVELOPER AND/OR CONTRACTOR SHALL PERFORM REGULAR STREET SWEEPING TO MINIMIZE SEDIMENTS TO THE PROPOSED STORM SEWER SYSTEM.

UPON REQUEST OF THE OHIO EPA, OR LOCAL JURISDICTION, THE CONTRACTOR SHALL PROVIDE ALL NPDES PERMIT REPORTS AND A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR SHALL ALLOW THE OHIO EPA, OR LOCAL JURISDICTION, TO ENTER THE SITE TO INSPECT AND MONITOR ALL EROSION CONTROL MEASURES.

DUMPSTERS AND PORT-O-LETTS ARE NOT TO BE CLOSER THAN 20' FROM THE PROPERTY LINES.

SPECIAL NOTES:

- DURING CONSTRUCTION, THE PROPERTY MUST HAVE A MINIMUM TWENTY (20) FOOT WIDE CONSTRUCTION ENTRANCE MAINTAINED OF STONE MATERIAL.
- AT THE CONSTRUCTION ENTRANCE TO THE PROPERTY, THERE MUST BE A WATER SOURCE AND TIRES OF CONSTRUCTION VEHICLES MUST BE RINSED TO MINIMIZE ANY DIRT WHICH WOULD MIGRATE FROM THE PROPERTY.
- DURING CONSTRUCTION, DEBRIS MUST BE REMOVED AS APPROPRIATE, BUT AT LEAST WEEKLY.
- DURING CONSTRUCTION, EROSION CONTROL MUST BE MAINTAINED ON THE PROPERTY INCLUDING PERIMETER CONTROL, E.G. STRAW BALE BARRIERS, EROSION FENCING, ETC.



STABILIZED CONSTRUCTION ENTRANCE
NO SCALE

TEMPORARY AND PERMANENT SEEDING:

1.1 SEEDBED PREPARATION
A. LIME (IN LIEU OF A SOIL TEST RECOMMENDATION) ON ACID SOIL (pH=5.5 OR LESS) AND SUBSOIL AT A RATE OF 100 POUNDS PER 1000 SF, OR TWO (2) TONS PER ACRE OF AGRICULTURAL GRADE LIMESTONE.

B. FERTILIZER (IN LIEU OF A SOILS TEST RECOMMENDATION) SHALL BE APPLIED AT A RATE OF 12-15 POUNDS (25 POUNDS FOR PERMANENT SEEDING) PER 1000 SF OF 10-10-10 OR 12-12-12 ANALYSIS OR EQUIVALENT.

1.2 SEEDING

1. TEMPORARY SEEDING MIXTURE

SEEDING PERIOD	TYPE	RATE (1000 SF)
SPRING AND SUMMER	1. OATS	3 LBS
	2. PEREN. RYEGRASS	1 LBS
	3. TALL FESCUE	1 LBS
FALL	1. PEREN. RYEGRASS	1 LBS
	2. RYE	3 LBS
	3. WHEAT	3 LBS
	4. TALL FESCUE	1 LBS

2. PERMANENT SEEDING MIXTURE

SEEDING PERIOD	TYPE	RATE (1000 SF)
SPRING, SUMMER, AND FALL	1. CREEPING RED FESCUE	0.5 LBS
	DOMESTIC RYEGRASS	0.25 LBS
	KENTUCKY BLUEGRASS	0.25 LBS
	2. TALL FESCUE	1 LBS
	3. DWARF FESCUE	1 LBS

2-1 SEEDING FOR STEEP BANKS OR CUTS

SPRING, SUMMER, AND FALL	1. TALL FESCUE	1 LBS
	2. CROWNVECH	0.25 LBS
	TALL FESCUE	0.50 LBS
	3. FLATPEA	0.50 LBS
	TALL FESCUE	0.50 LBS

2-2 SEEDING FOR WATERWAYS AND ROAD DITCHES

SPRING, SUMMER AND FALL	1. TALL FESCUE	1 LBS
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B. APPLY THE SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) PREFERABLY ON A FIRM, MOIST SEEDBED. SEED WHEAT OR RYE NO DEEPER THAN ONE (1) INCH. SEED RYEGRASS NO DEEPER THAN ONE QUARTER (¼) OF AN INCH.

TEMPORARY AND PERMANENT SEEDING (CONT.)

C. WHEN FEASIBLE, EXCEPT WHERE A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHEREVER POSSIBLE.

D. OTHER SEEDING SPECIES MAY BE SUBSTITUTED FOR THESE MIXTURES.

E. THESE SEEDING RATES NEED TO BE INCREASED TWO TO THREE TIMES IF THEY ARE TO BE USED AS A LAWN.

2. DORMANT SEEDING

A. TEMPORARY SEEDING-AFTER NOVEMBER 1, USE MULCH ONLY.

B. PERMANENT SEEDING- SEEDINGS SHOULD NOT BE PLANTED FROM OCTOBER 1 THROUGH NOVEMBER 20. THE FOLLOWING METHODS MAY BE USED TO MAKE A "DORMANT SEEDING":

1. FROM OCT. 1 THROUGH NOV. 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOV. 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

2. FROM NOV. 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE SEEDBED, LIME AND FERTILIZE, APPLY THE SELECTED SEED MIXTURE, AND MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

3. MULCHING

A. MULCH SHALL CONSIST OF SMALL GRAIN STRAW (PREFERABLY WHEAT OR RYE) AND SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE OR 100 POUNDS PER 1000 SF.

B. SPREAD THE MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED.

C. MULCH ANCHORING METHODS:

- MECHANICAL- USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH INTO THE SOIL.
- ASPHALT EMULSION-APPLY AT THE RATE OF 160 GALLONS PER ACRE INTO THE MULCH AS IT IS BEING APPLIED.
- MULCH NETTING-USE ACCORDING TO THE MANUF. RECOMMENDATIONS.

4. IRRIGATION

SUPPLY NEW SEEDLINGS WITH ADEQUATE WATER FOR PLANT GROWTH UNTIL THEY ARE FIRMLY ESTABLISHED.

STABILIZATION:

DISTURBED AREAS MUST BE STABILIZED AS FOLLOWS:

PERMANENT STABILIZATION

Area requiring permanent stabilization	Time frame to apply erosion controls
Any area that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any area within 50 feet of a stream and at final grade	Within two days of reaching final grade
All other areas of final grade	Within seven days of reaching final grade within that area

TEMPORARY STABILIZATION

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed area within 50 feet of a stream and not at final grade	Within two days of the most recent disturbance (if the area will lie dormant for more than 14 days)
For all construction activities, any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a stream	Within seven days of the most recent disturbance within the area
Disturbed areas that will lie idle over winter	Prior to the onset of winter weather

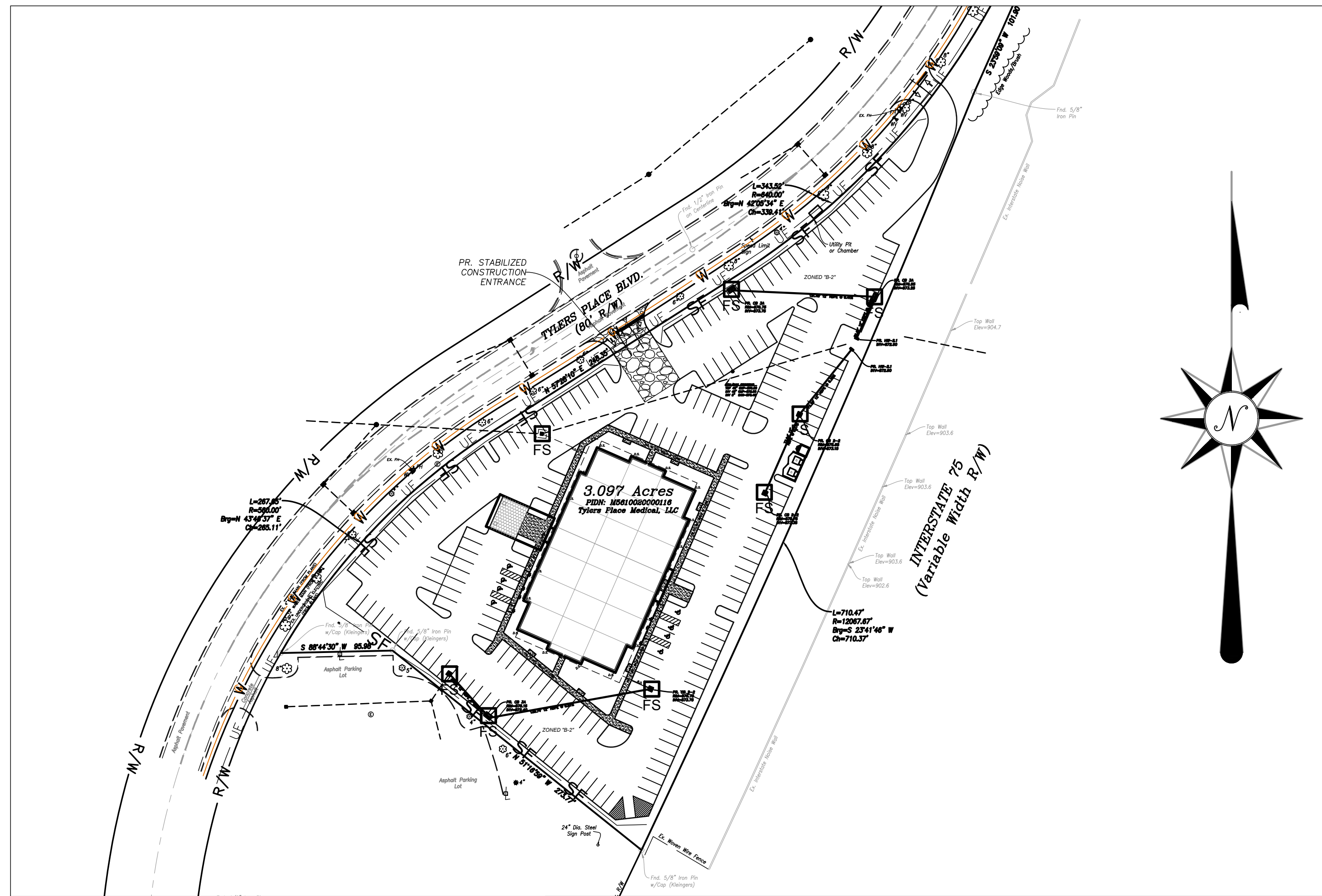
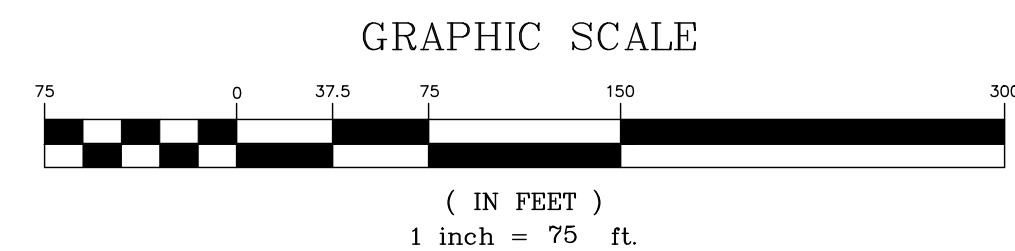
CONSTRUCTION SEQUENCE:

THE CONSTRUCTION SEQUENCING FOR SITE WORK SHOULD BE SIMILAR IN NATURE TO THE FOLLOWING:

- CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT PERIMETER CONTROL MEASURES.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA.
- INSTALL STORMWATER MANAGEMENT SYSTEMS, INLET FILTERS SHALL BE INSTALLED CONCURRENTLY WITH THE CONSTRUCTION OF THE STRUCTURE AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETE, AND UPSTREAM AREAS HAVE BEEN STABILIZED.
- TEMPORARY VEGETATIVE STABILIZATION OR EROSION AND SEDIMENT CONTROL MEASURES.
- GRADING OF ROADS, STREETS, OR PARKING AREAS, ETC.
- INSTALLATION OF ALL UTILITIES.
- SITE CONSTRUCTION.
- FINAL GRADING, STABILIZATION, AND LANDSCAPING.
- REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

EROSION CONTROL LEGEND

- SF SILT FENCE
- FS FLEXSTORM PERMANENT INLET FILTER APPROVED EQUAL INLET FILTER



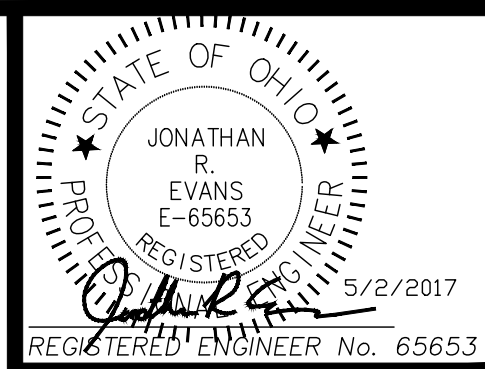
FLEXSTORM P/Ns 62MHDXF & 62MHDXFP HD4 INLET TYPE SQUARE/RECT PRECAST OPENING WITH 4 SEAT GRADE SUPPORT

Part Name	Part Number	Part Description	Part Dimensions	Part Weight	Part Material	Part Notes
PRECAST OPENING	62MHDXF	62" x 62" x 12" HD4 INLET TYPE SQUARE/RECT PRECAST OPENING WITH 4 SEAT GRADE SUPPORT	62" x 62" x 12"	1150 LBS	CONCRETE	SEE NOTES
INLET FILTER	62MHDXFP	62" x 62" x 12" HD4 INLET TYPE SQUARE/RECT PRECAST OPENING WITH 4 SEAT GRADE SUPPORT	62" x 62" x 12"	1150 LBS	CONCRETE	SEE NOTES

NOTES:

- RATINGS SHOWN ARE FOR STANDARD 24" BAG DEPTH. *SHORT* 12" DEPTH BAGS ARE AVAILABLE WITH *S* SUFFICIENT RATINGS REDUCED BY *50%*.
- THE FOLLOWING REQUIRES ADDITIONAL REVIEW
 - GRATES WITH EXTENDED BOTTOMS
 - ANY OBSTRUCTED INLET OPENINGS

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC. A DIVISION OF ARES, INC. WWW.INLETFILTERS.COM 297-4655 FAX: (630) 355-3477 FAX INFO@INLETFILTERS.COM



REVISIONS	NO.	DESCRIPTION

EVANS ENGINEERING
4240 AIRPORT ROAD, SUITE 211
CINCINNATI, OHIO 45226
(513) 921-2168
(513) 921-2173 FAX
ATTN: JONATHAN R. EVANS, P.E.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
7450 TYLERS PLACE BOULEVARD
WEST CHESTER TOWNSHIP, BUTLER COUNTY, OHIO 45069

SCALE:	HORIZ.	VERT.
	1"=75'	N/A
JOB NO.	16-138	
DATE	May. 2, 2017	
SHEET NO.		
C-5		