

GENERAL NOTES:

THE OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS", CURRENT EDITION, AND THE CURRENT ZONING CODE OF SYCAMORE TOWNSHIP 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 THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT).

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 901:5-56. 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 OR 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:

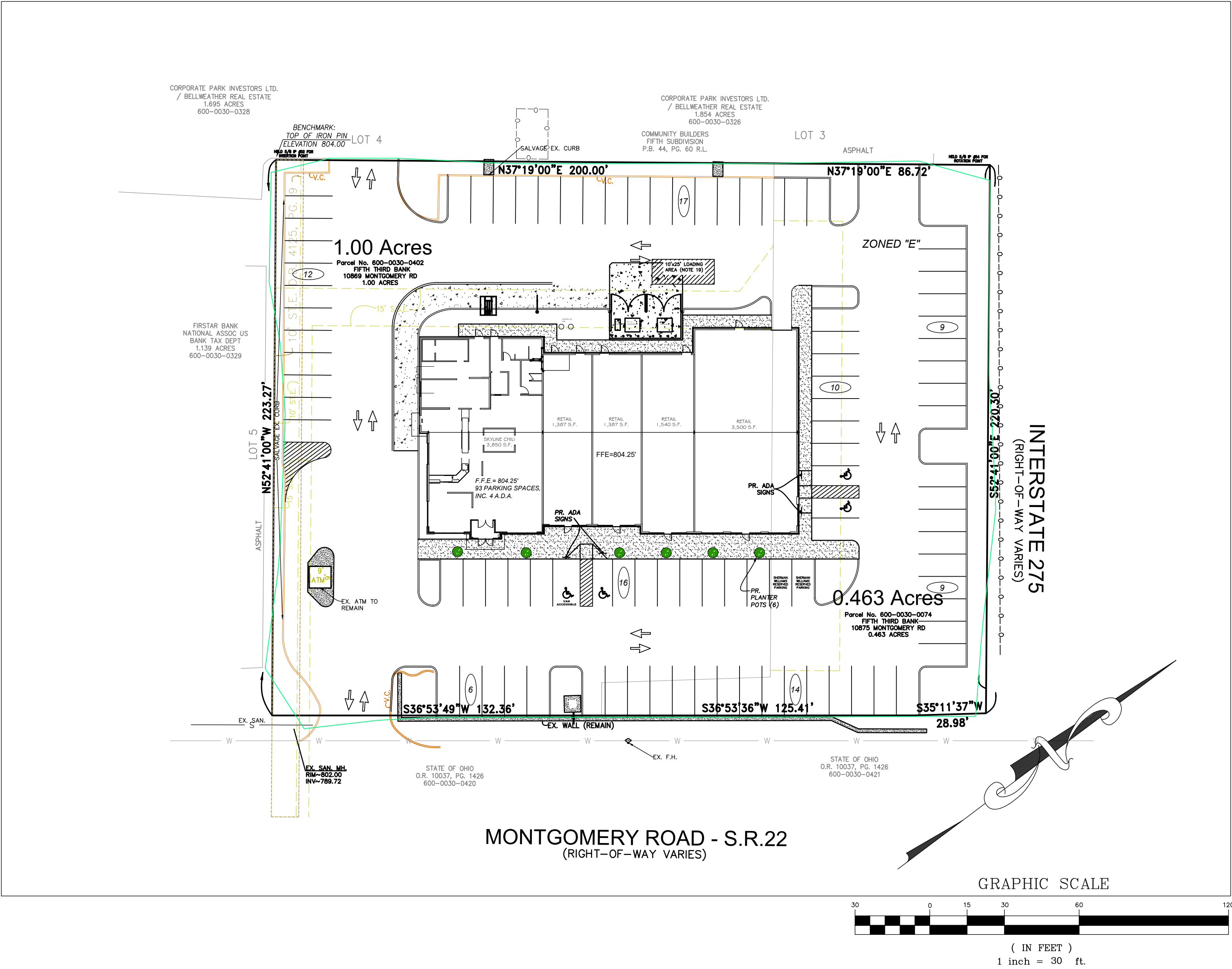
SITE BUILDING PAD EXCAVATION AND EMBANKMENT SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATION AND APPROVAL

PLANS FOR THE CONSTRUCTION OF A NEW COMMERCIAL BUILDING FOR:

SKYLINE CHILI POINTE

10869 & 10875 MONTGOMERY ROAD, SYCAMORE TOWNSHIP,

HAMILTON COUNTY, OHIO



MONTGOMERY ROAD - S.R.22  
(RIGHT-OF-WAY VARIES)

GRAPHIC SCALE

( IN FEET )  
1 inch = 30 ft.

PRIVATE STORM DRAINAGE NOTES:

THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, OHIO HAS ADOPTED FLOOD DAMAGE PREVENTION REGULATIONS.

ALL PROPOSED STORM SEWERS AND SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER.

THE DEVELOPER/OWNER IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE NEW DETENTION/RETENTION BASIN.

ALL INTERNAL DRAINAGE SYSTEMS ARE TO BE DESIGNED FOR A TEN YEAR STORM AND GIVEN PROTECTION FOR A ONE HUNDRED YEAR STORM. FOR STORM DRAINAGE SYSTEMS THAT OUT LET INTO DETENTION FACILITIES A HYDRAULIC GRADIENT STUDY MAY BE REQUIRED.

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 SPECIFICATIONS ITEM 659.

ALL NEW STORM SEWER, SURFACE DRAINAGE CONSTRUCTION, STORM WATER DETENTION FACILITY CONSTRUCTION AND CONSTRUCTION OF TEMPORARY EROSION CONTROL MEASURES ARE TO BE UNDER THE INSPECTION AND SUPERVISION OF THE PUBLIC WORKS DEPARTMENT. PHONE 513-946-4550 AT LEAST TWO DAYS IN ADVANCE OF CONSTRUCTION.

IF STORM WATER DETENTION/RETENTION FACILITY CONSTRUCTION IS PERFORMED WITHOUT CALLING FOR CONSTRUCTION INSPECTION AND SUPERVISION BY THE HAMILTON COUNTY DEPARTMENT OF PUBLIC WORKS, THE PUBLIC WORKS DEPARTMENT WILL INVOICE FOR THE INSPECTION/SUPERVISION TIME PRIOR TO ACCEPTANCE BASED ON THE HAMILTON COUNTY DEPARTMENT OF PUBLIC WORKS ESTIMATE OF TIME THAT WOULD HAVE BEEN EXPENDED BY THE PUBLIC WORKS INSPECTOR.

CERTIFICATION OF STORAGE VOLUME AND AN "AS-BUILT" SURVEY OF THE DETENTION/RETENTION FACILITY AND STORM SEWER SYSTEM BY A REGISTERED PROFESSIONAL SURVEYOR IN THE STATE OF OHIO MUST BE SUBMITTED FOR THE PROPOSED DETENTION/RETENTION FACILITY PRIOR TO THE RECORDING OF THE PRIVATE DRAINAGE LIMITS FOR STORM WATER DETENTION RECORD PLAT.

PRIVATE STORM DRAINAGE LIMITS:

PRIVATE STORM DRAINAGE LIMITS SHOWN ON THIS PLAN ARE NOT ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, OHIO AND THE COUNTY OF HAMILTON IS NOT OBLIGATED TO MAINTAIN OR REPAIR ANY CHANNELS OR INSTALLATIONS IN SAID LIMITS. THE SAID LIMIT AREA AND ALL IMPROVEMENTS IN IT SHALL BE MAINTAINED CONTINUOUSLY BY THE OWNER. NO STRUCTURES PLANTING OR OTHER MATERIAL SHALL BE PLACED OR PERMITTED TO REMAIN WHICH MAY OBSTRUCT, RETARD OR CHANGE THE DIRECTION OF THE FLOW OF WATER THROUGH THE DRAINAGE CHANNEL IN THE SAID LIMITS.

THE LOCATION OF THE PRIVATE STORM DRAINAGE LIMITS MUST BE PREPARED BY THE DEVELOPER'S ENGINEER/SURVEYOR ON A RECORD PLAT BY A METES AND BOUNDS DESCRIPTION. THE RECORD PLAT IS TO BE SUBMITTED TO HAMILTON COUNTY PUBLIC WORKS FOR REVIEW AND APPROVAL PRIOR TO THE SUBMITTAL OF THE SIGNED, SEALED AND NOTARIZED MYLAR TO BE RECORDED. THE DEVELOPER'S ENGINEER/SURVEYOR IS TO SUBMIT A PRINT OF THE RECORDED PLAT TO THE HAMILTON COUNTY DEPARTMENT OF PUBLIC WORKS FOR THEIR FILES AND RECORDS PRIOR TO APPROVAL OF THE CERTIFICATE OF OCCUPANCY.

STORM WATER DETENTION/RETENTION FACILITY TABLE

DESIGNATION	HIGH WATER ELEVATION	PRE DEV Q1 (CFS)	PRE DEV Q10 (CFS)	POST DEV Q100 (CFS)	REQUIRED STORAGE (Cf)
DETENTION 1	800.5000	1.64	2.72	4.50	6844

NO GRAVITY FLOW STORM DRAINS FROM ANY DRIVEWAY, WINDOW WELL, STAIRWELL, FOUNDATION, BASEMENT, PATIO OR OTHER SOURCE WILL BE PERMITTED TO BE DIRECTLY CONNECTED TO THE PROPOSED STORM SEWER SYSTEM AND/OR EXISTING OR PROPOSED WATERCOURSE BELOW THE HIGH WATER ELEVATIONS SHOWN IN THE ABOVE TABLE. IF THE BASEMENT FLOOR IS BELOW THE ABOVE STATED ELEVATION, THE BASEMENT SHALL BE PROVIDED WITH A SUMP PUMP WELL AND SUMP PUMP. THE PUMP SHALL BE DISCHARGED ON THE LOT AT OR ABOVE THE ELEVATION STATED ABOVE. A GRAVITY FLOW STORM SYSTEM MAY BE DISCHARGED ON THE LOT AT A POINT WHERE THE OUTLET IS NOT AFFECTED BY FLOODING FROM THE PROPOSED STORM SEWER SYSTEM AND/OR EXISTING/PROPOSED WATERCOURSE.

PRIVATE STORM SEWER EASEMENT

PRIVATE STORM SEWER EASEMENTS SHOWN ON THESE PLANS ARE NOT ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, AND THE COUNTY OF HAMILTON IS NOT OBLIGATED TO MAINTAIN, REPAIR OR OPERATE ANY PRIVATE STORM SEWER LINE. OPERATION AND MAINTENANCE OF ALL PRIVATE STORM SEWER LINES SHOWN ON THESE PLANS IS THE OBLIGATION OF THE OWNERS OF THE LOTS USING THE STORM SEWER LINES.

PROPOSED  
SITE

LOCATION MAP

OWNER / APPLICANT:

MIKE MISLEH

CIVIL ENGINEERING:

EVANS ENGINEERING  
4240 AIRPORT RD. #108  
CINCINNATI, OHIO 45226  
513-321-2168  
JONATHAN R. EVANS, P.E.

SURVEYING:

TRI-STATE LOCATION SERVICES INC  
4514 FOREST TRAIL LANE  
LIBERTY TOWNSHIP, OHIO 45011  
513-829-7722  
TURNERTRISTATE@AOL.COM

INDEX:

- C-1 TITLE SHEET & GENERAL NOTES
- C-1.1 SITE CONSTRUCTION DETAILS
- C-1.2 SITE CONSTRUCTION DETAILS
- C-2 EXISTING CONDITIONS AND DEMO PLAN
- C-3 SITE DIMENSION PLAN
- C-3.1 UTILITY SERVICE PLAN
- C-4 GRADING PLAN
- C-4.1 DETENTION DETAILS
- C-5 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NOTES AND DETAILS

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:

CINCINNATI WATER WORKS  
4747 SPRING GROVE AVE.  
CINCINNATI, OH 45232  
TEL: 513-591-7836

DUKE ENERGY-ELECTRIC  
TOM GEIMAN  
TEL: 513-287-1104  
TOM.GEIMAN@duke-energy.com

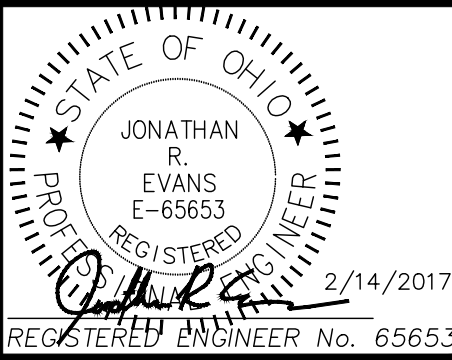
DUKE ENERGY-GAS  
BRAD STEINMETZ  
TEL: 513-287-1464  
BRAD.STEINMETZ@duke-energy.com

CINCINNATI BELL TELEPHONE  
221 E. FOURTH ST.,343-300  
CINCINNATI, OH 45201-2301  
TEL: 513-397-5660  
FAX: 513-397-1400

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

SYCAMORE TOWNSHIP PLANNING AND ZONING  
8540 KENWOOD RD.  
CINCINNATI, OHIO 45236  
TEL: 513-792-7250

METROPOLITAN SEWER DISTRICT OF GREATER  
CINCINNATI (MSD)  
ROB KERN  
1600 GEST STREET  
CINCINNATI, OHIO 45204  
TEL: 513-244-5588



REVISIONS  
NO. & DESCRIPTION

BY

DATE

EVANS ENGINEERING

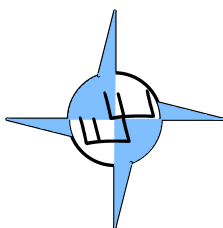
4240 AIRPORT ROAD, SUITE 108

CINCINNATI, OHIO 45226

(513) 321-2168

(513) 321-2173 FAX

ATTN: JONATHAN R. EVANS, P.E.



SKYLINE CHILI POINTE  
TITLE SHEET &  
GENERAL NOTES

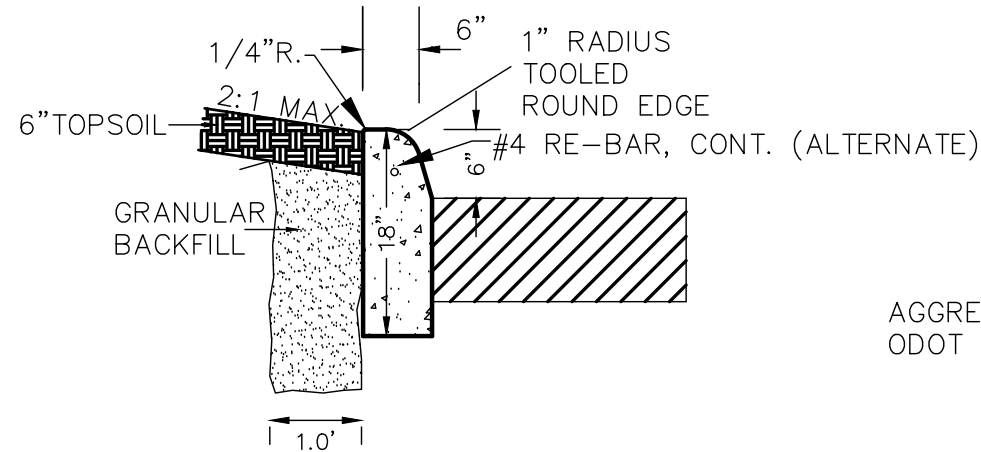
10869 & 10875 MONTGOMERY ROAD,  
SYCAMORE TOWNSHIP, HAMILTON COUNTY,  
OHIO 4525

SCALE:	HORIZ.	VERT.
	1"=30'	N/A
JOB NO.	16-154	
DATE	Feb. 14, 2017	

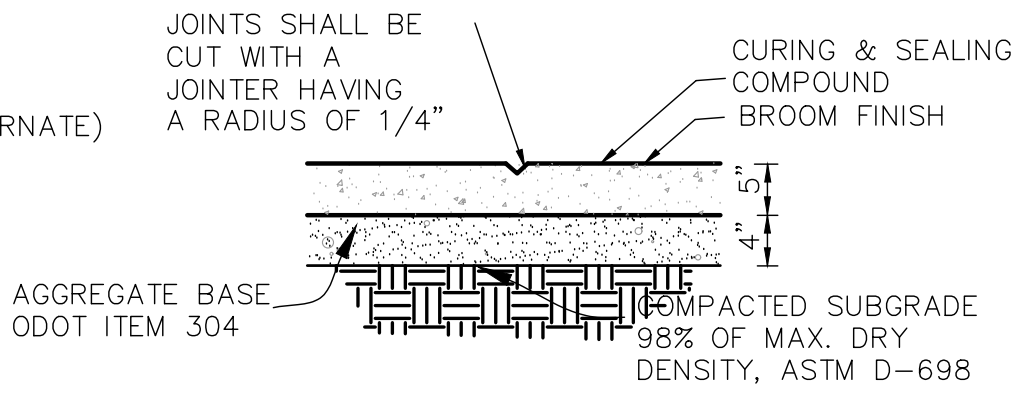
SHEET NO.

C-1



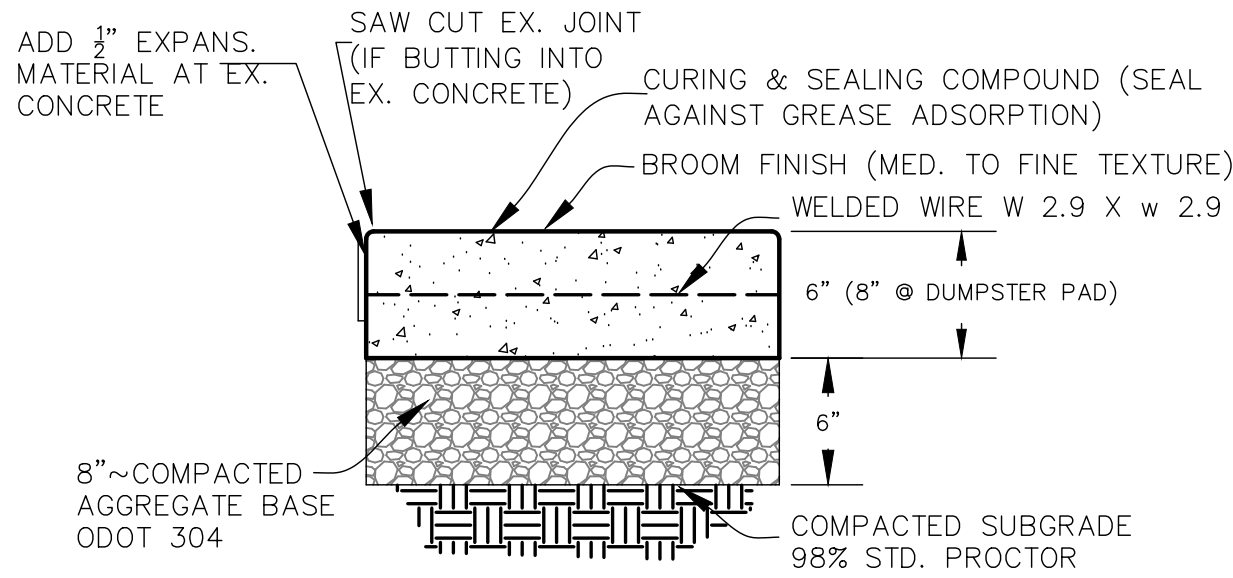


18" STRAIGHT CURB  
NOT TO SCALE



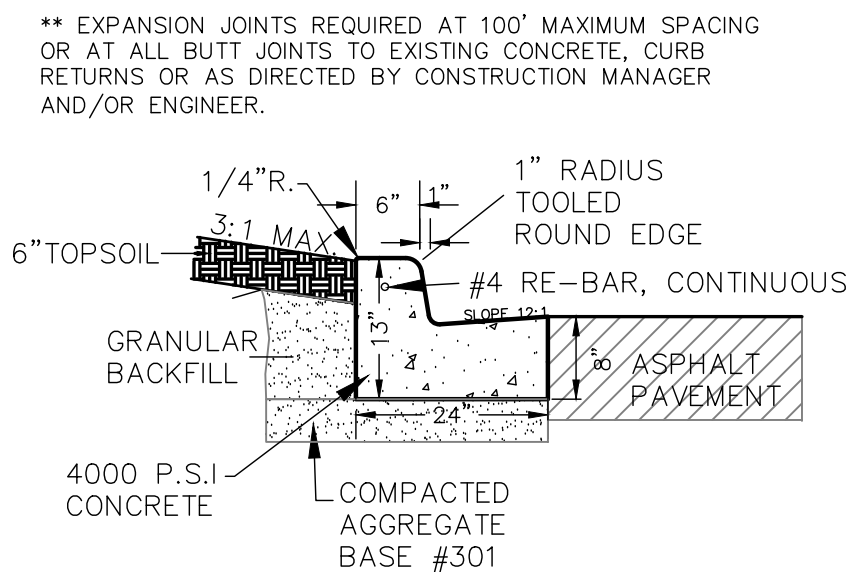
- NOTE:
- CONTROL JOINTS 5' O.C. MAX.
  - EXPANSION JOINTS 30' O.C. MAX.
  - CONCRETE SHALL BE 4000 PSI AE

CONCRETE WALK DETAIL  
NOT TO SCALE

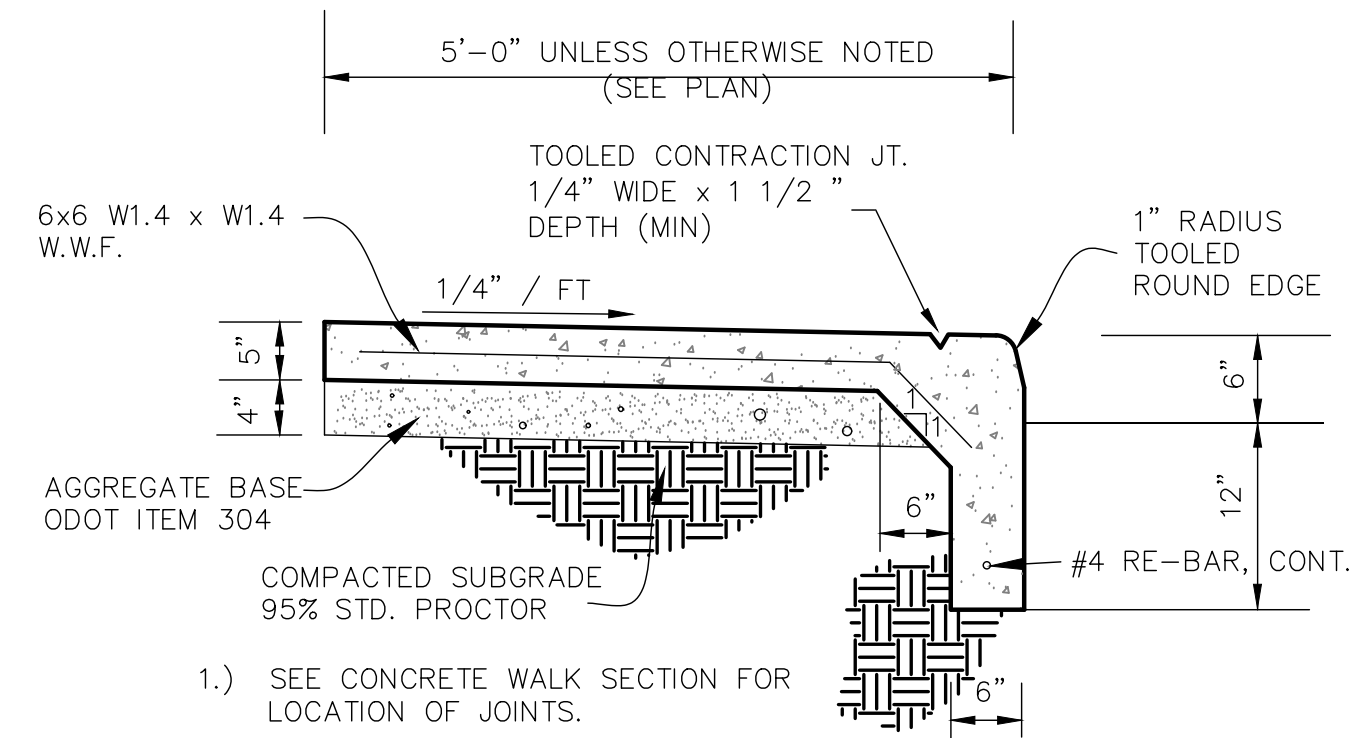


- CONTROL JOINTS 10' O.C. MAX (EACH DIRECTION).
- PRE-FORMED EXPANSION JOINTS 30' O.C. MAX. & WHERE ABUTS CONCRETE
- CONCRETE SHALL BE 4000 PSI A.E.

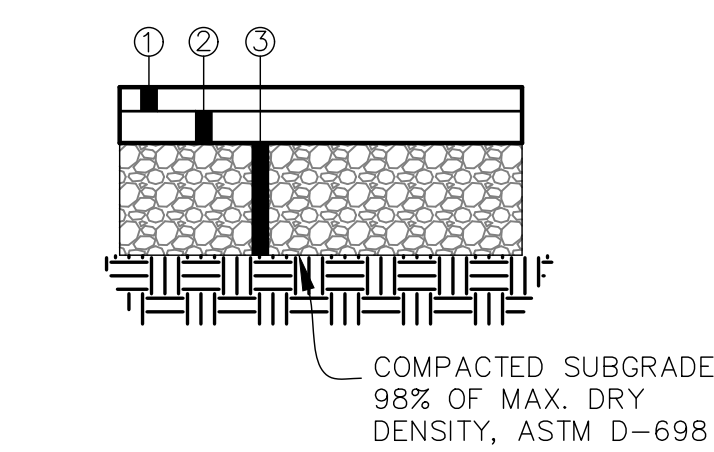
CONCRETE PAVING DETAIL  
NOT TO SCALE



24" CONCRETE CURB & GUTTER  
NOT TO SCALE

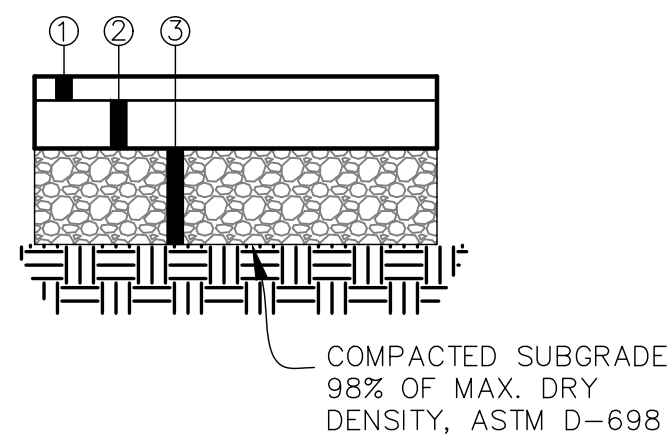


INTEGRAL WALK AND CURB  
NOT TO SCALE



- 1 1/2" 448, TYPE 1, MED. BITUMINOUS SURFACE COURSE
- 2" BASE COURSE ASPHALT (301)
- 6" AGGREGATE BASE (2 LIFTS); ODOT ITEM 304

MEDIUM DUTY ASPHALT PAVING  
NOT TO SCALE



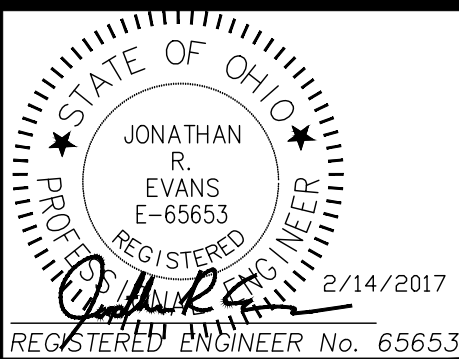
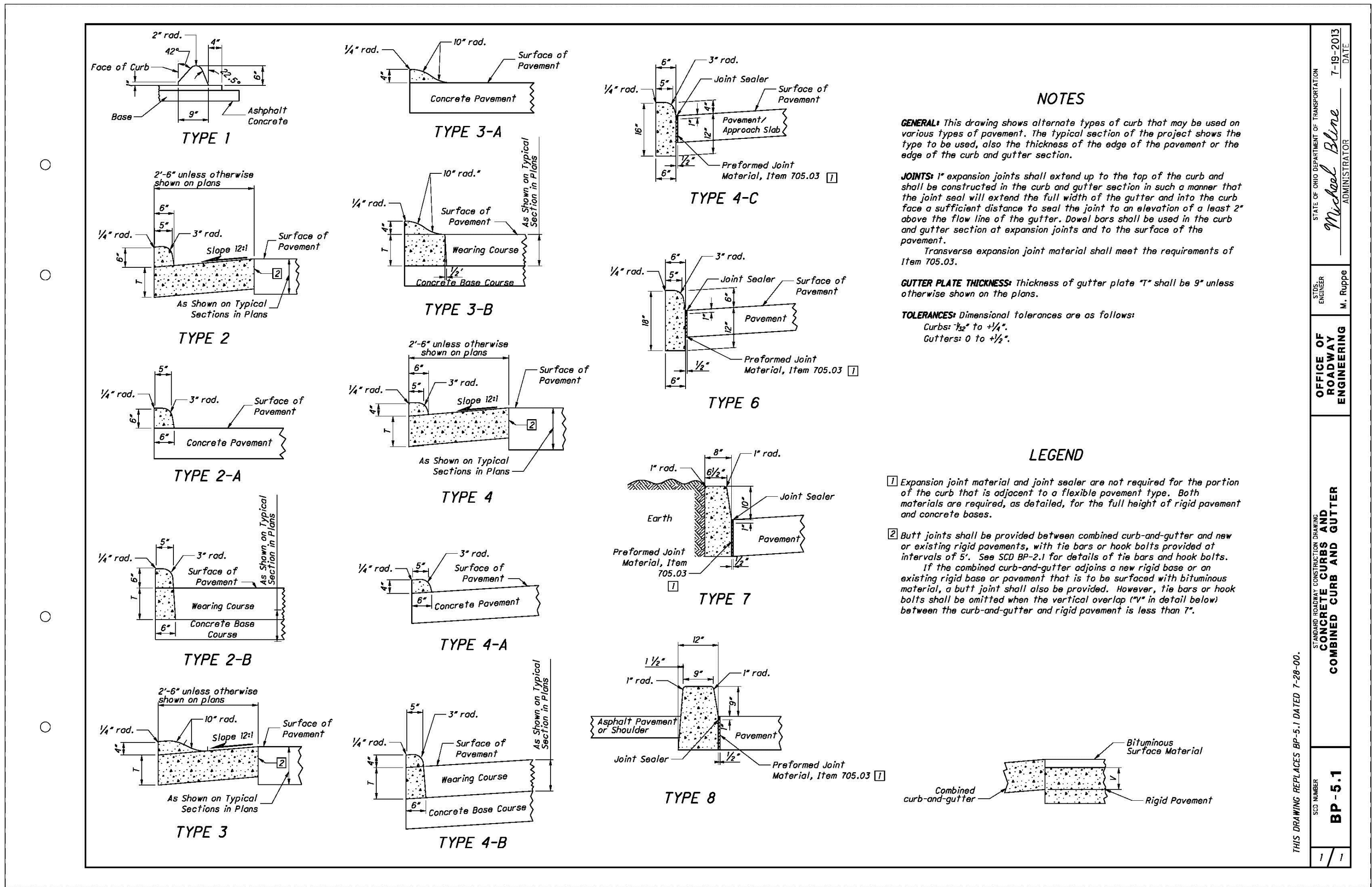
- 1 1/2" ODOT 448, TYPE 1, MED. BITUMINOUS SURFACE COURSE
- 3" BASE COURSE ASPHALT (301)
- 8" AGGREGATE BASE (2 LIFTS); ODOT ITEM 304

HEAVY DUTY ASPHALT PAVING  
NOT TO SCALE

ADDITIONAL PAVING NOTES:

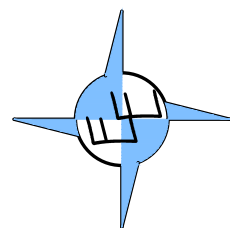
AFTER BITUMINOUS PAVEMENT HAS BEEN REPLACED, SAWCUT OR ROUTE JOINT BETWEEN EXISTING AND NEW PAVEMENT AND FILL WITH HOT POURED RUBBER JOINT SEALER PRODUCT. HOT POURED RUBBER JOINT SEALER SHALL BE ONE OF THE FOLLOWING OR AN APPROVED EQUAL:

- ROADSAVER 221; CRAFCO INC.
- PRODUCT #9005 OR #9030; KOCH MATERIAL COMPANY
- SEALTIGHT HI-SPEC; W.R. MEADOWS, INC.



REVISIONS		NO. & DESCRIPTION	
BY	DATE		

EVANS ENGINEERING  
4240 AIRPORT ROAD, SUITE 108  
CINCINNATI, OHIO 45226  
(513) 321-2168  
ATTN: JONATHAN R. EVANS, P.E.



SKYLINE CHILLI POINTE  
SITE CONSTRUCTION  
DETAILS

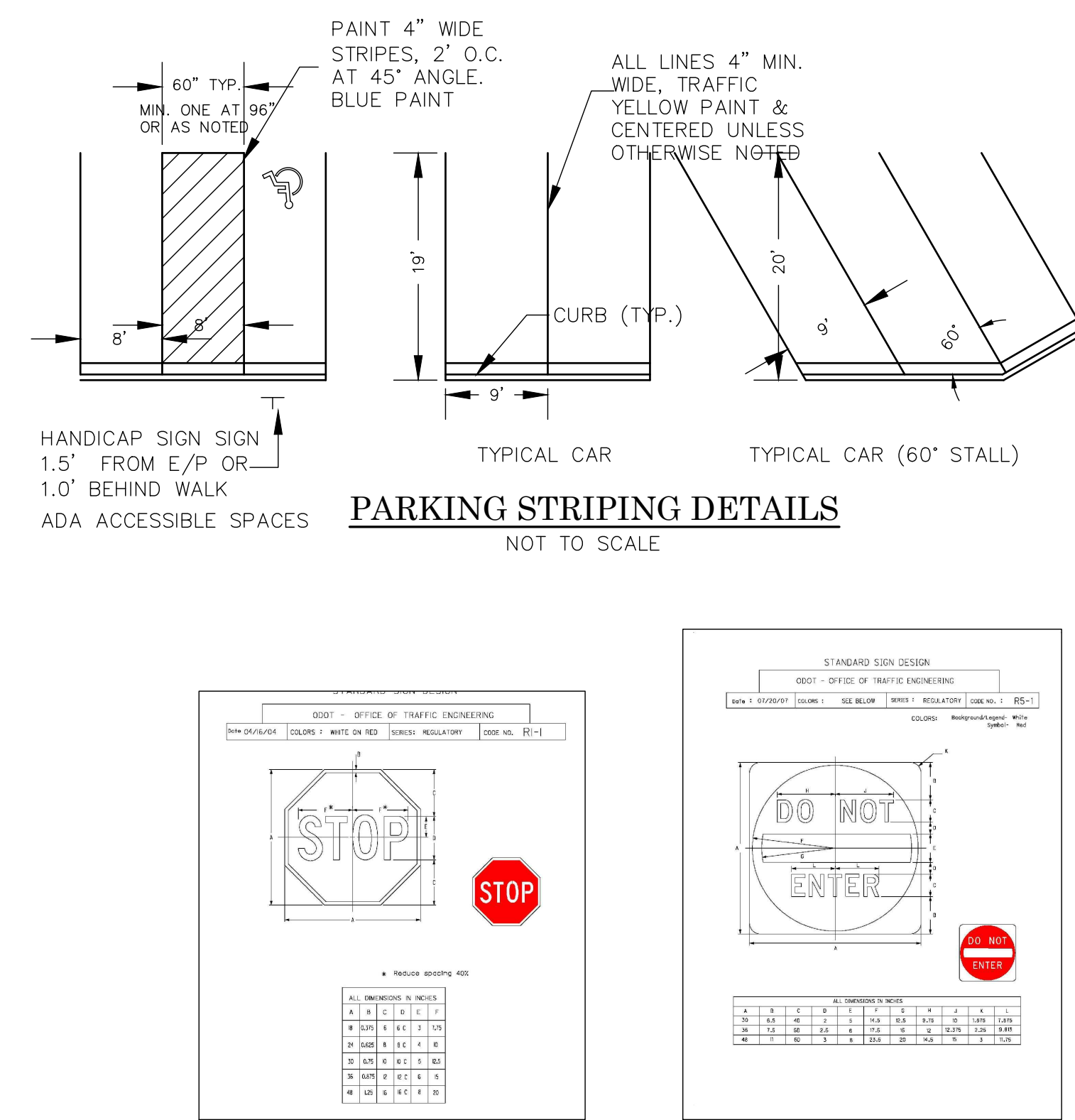
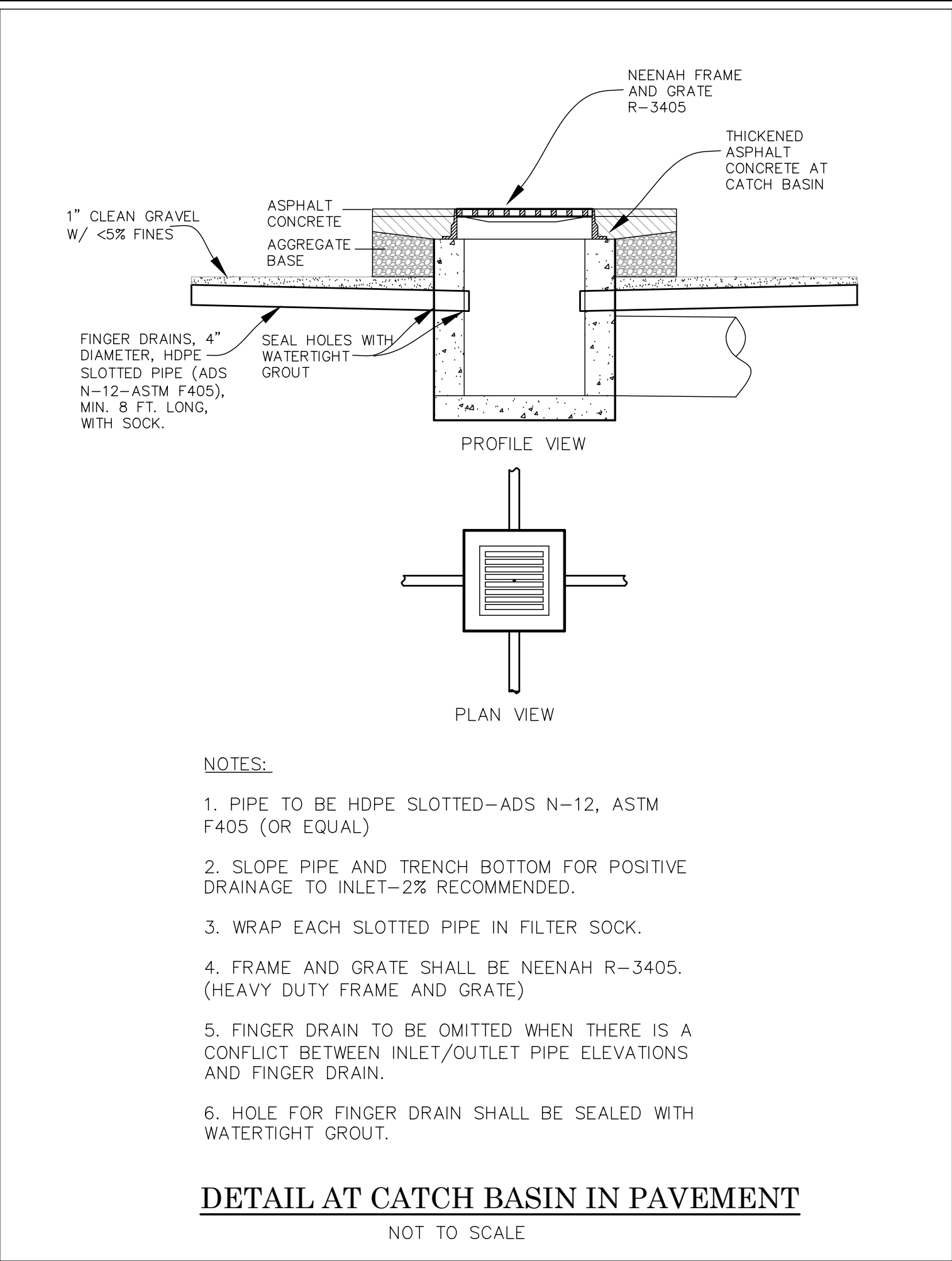
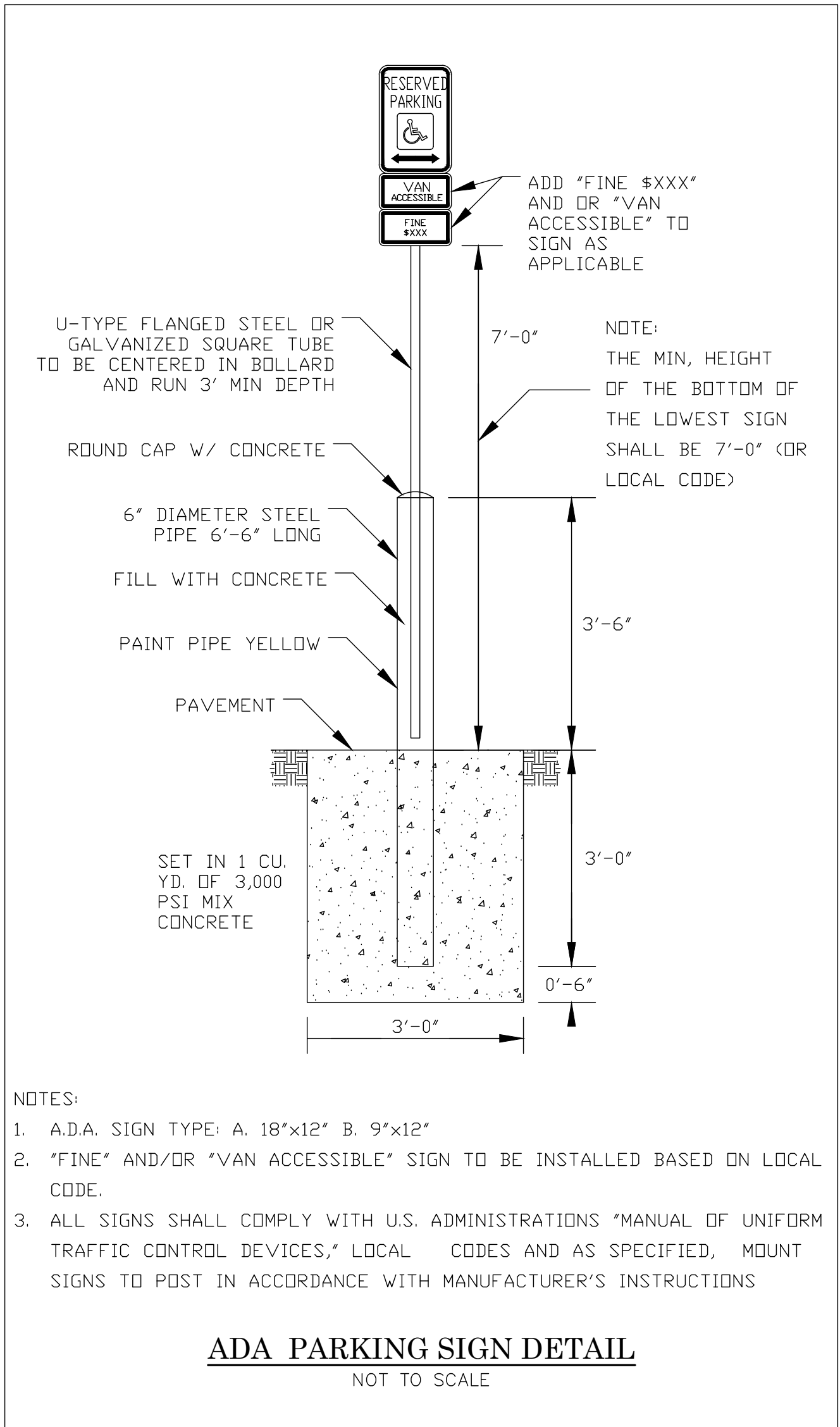
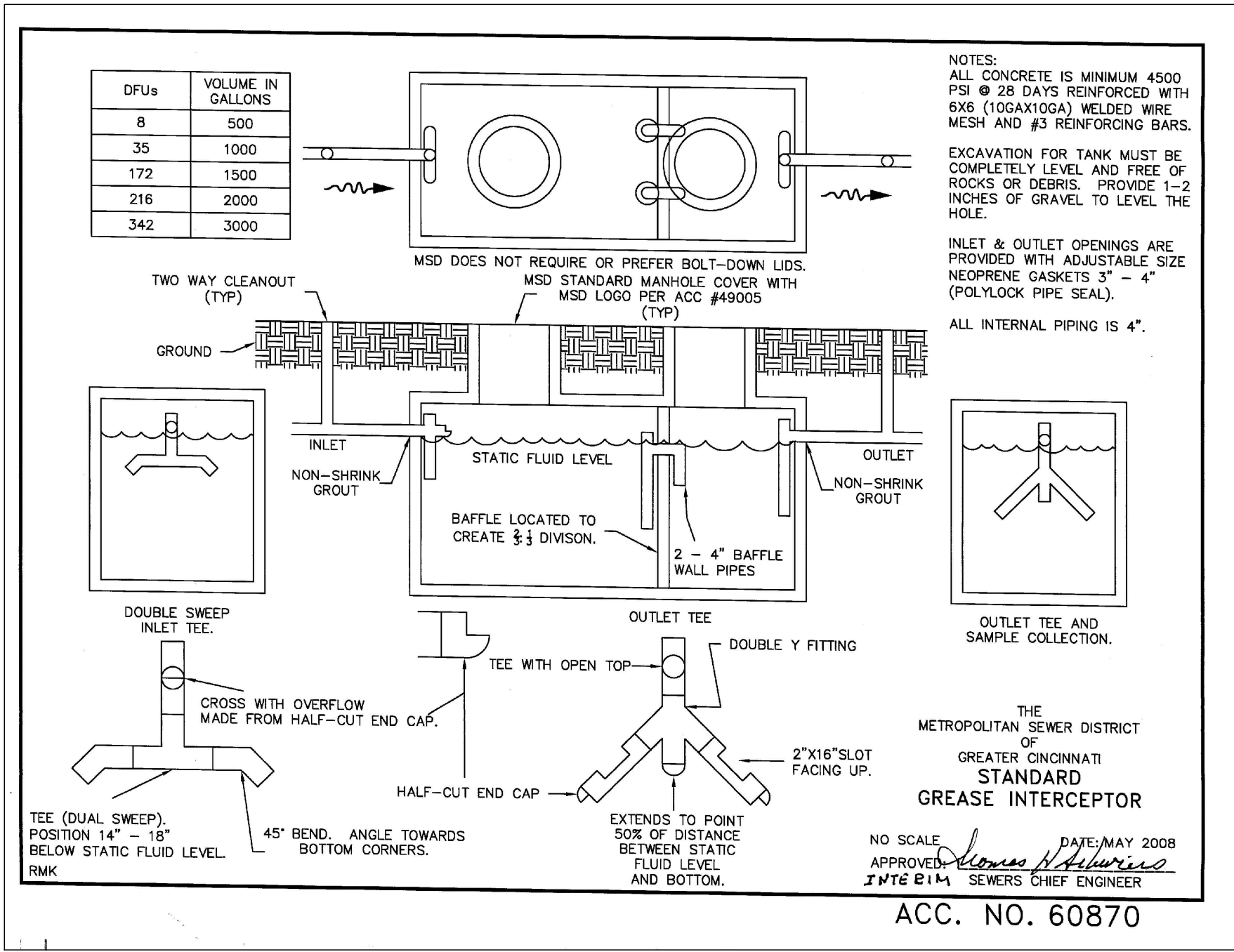
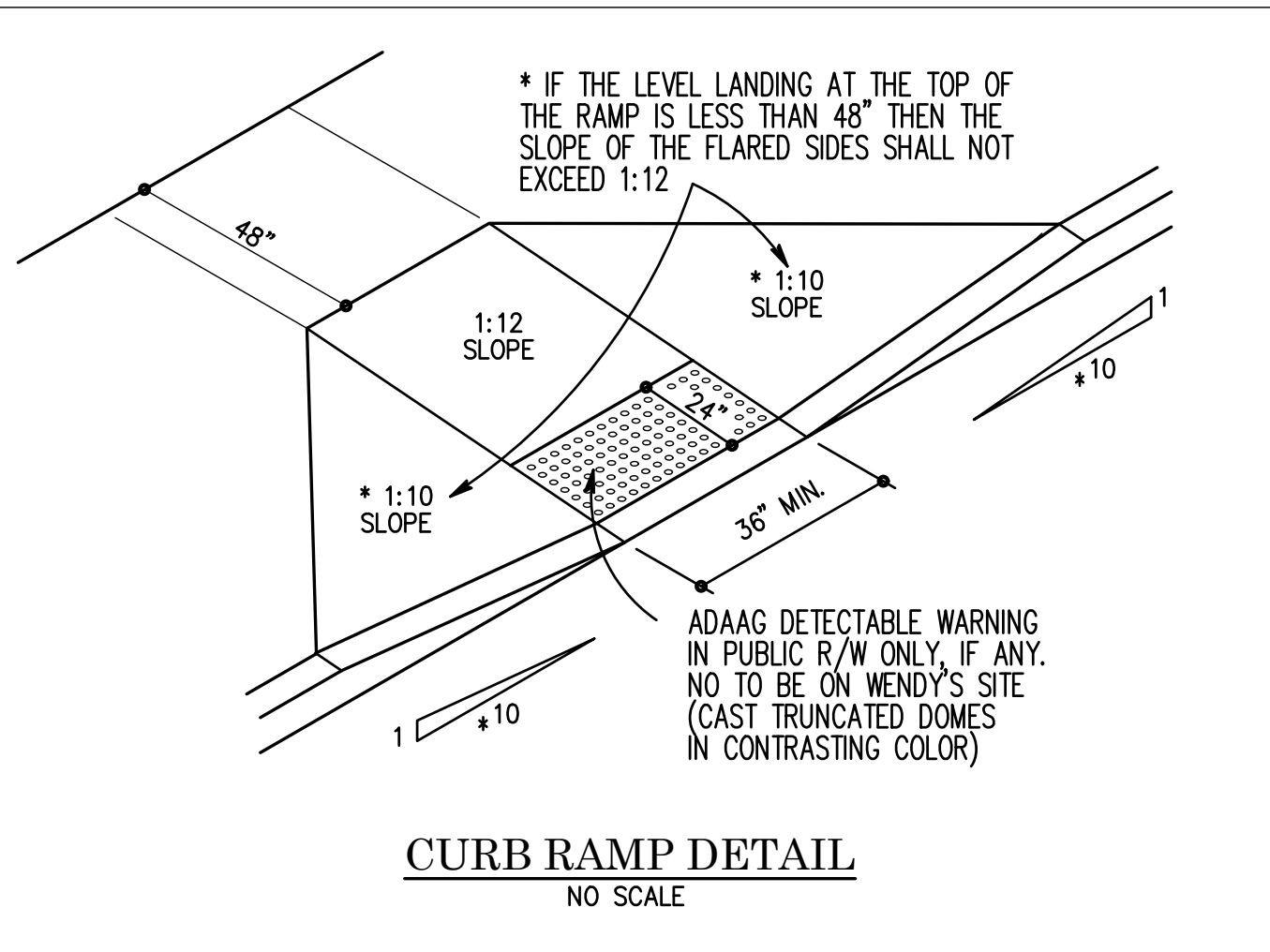
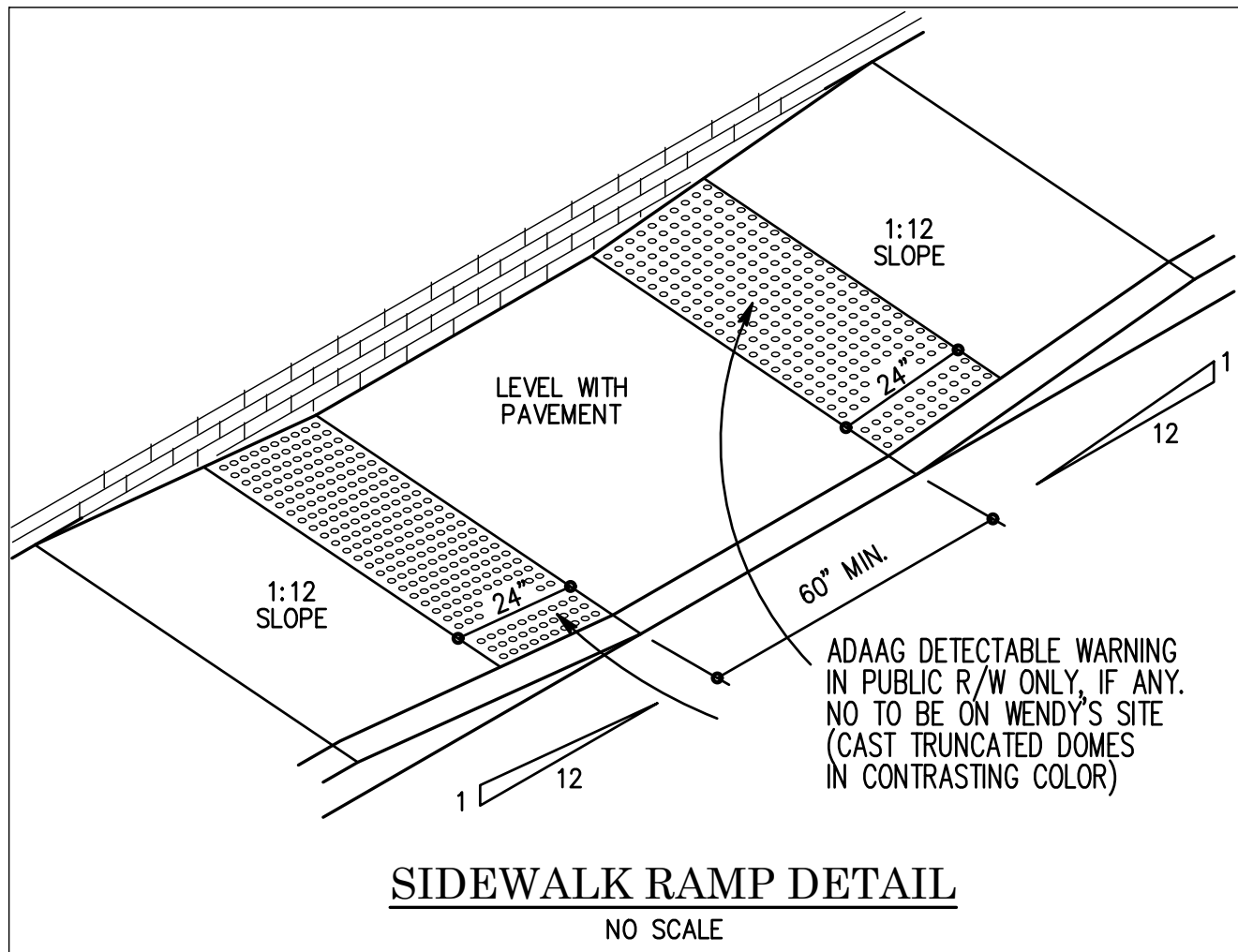
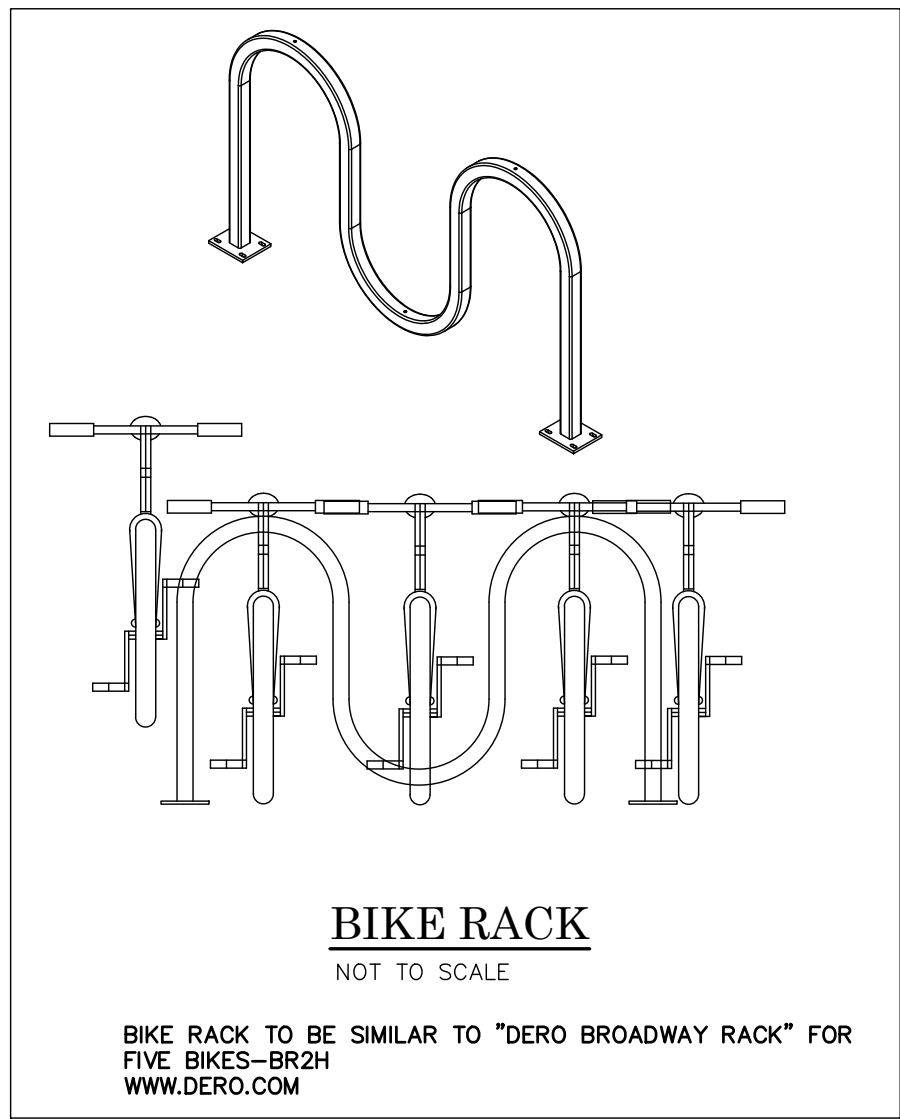
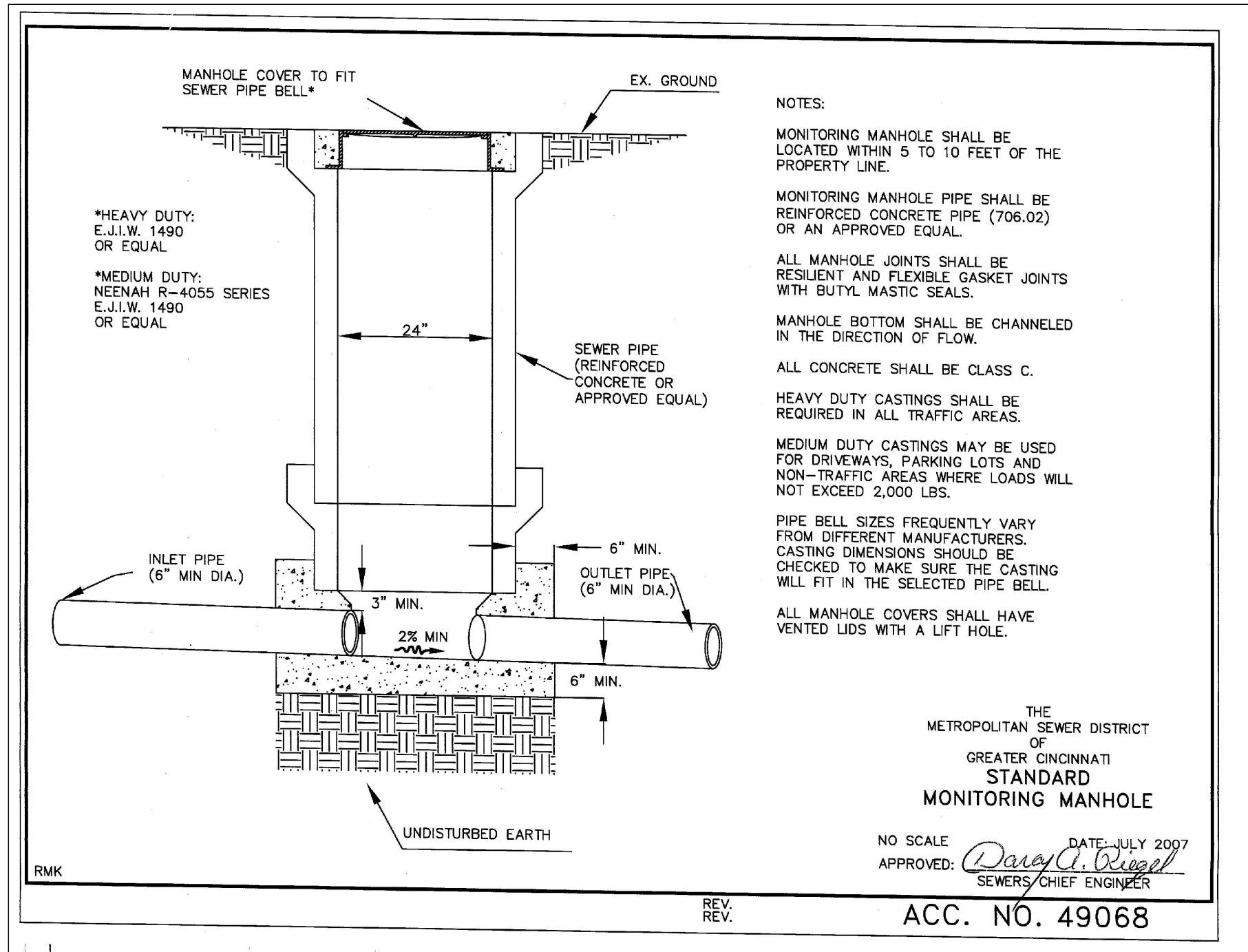
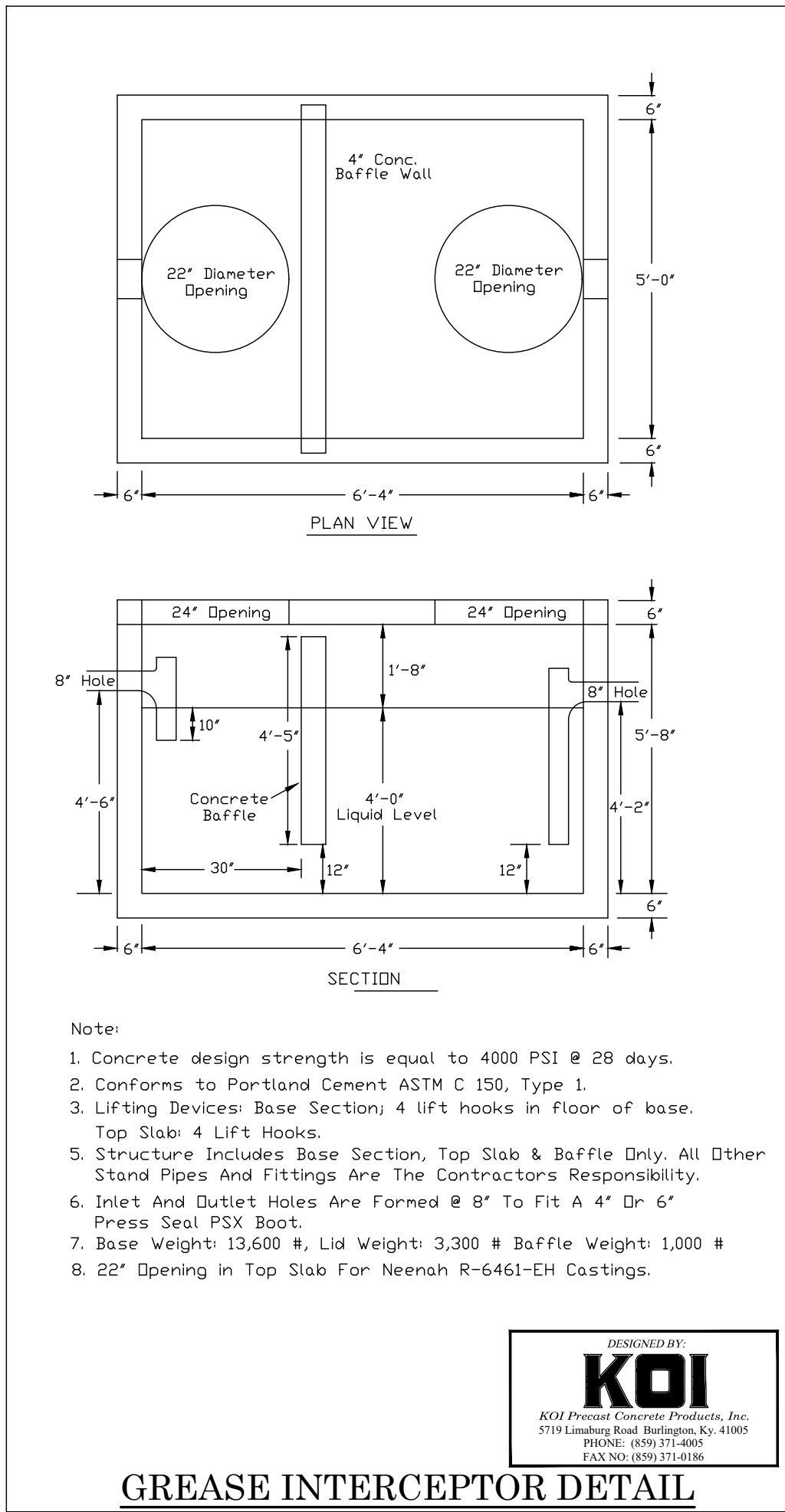
10869 & 10875 MONTGOMERY ROAD,  
SYCAMORE TOWNSHIP, HAMILTON COUNTY,  
OHIO 45255

SCALE:	HORIZ.	VERT.
	VARIES	N/A
JOB NO.	16-154	
DATE	Feb. 14, 2017	

SHEET NO.

C-1.1





**STATE OF OHIO**

**JONATHAN R. EVANS**  
E-65653  
REGISTERED ENGINEER No. 65653

**REVISIONS**

NO.	DESCRIPTION	BY	DATE
1			

**EVANS ENGINEERING**  
4240 AIRPORT ROAD, SUITE 108  
CINCINNATI, OHIO 45226  
(513) 821-2168  
ATTN: JONATHAN R. EVANS, P.E.

**SKYLINE CHILI POINTE**

**SITE CONSTRUCTION DETAILS**

10869 & 10875 MONTGOMERY ROAD,  
SYCAMORE TOWNSHIP, HAMILTON COUNTY,  
OHIO 45255

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

**JOB NO.** 16-154  
**DATE** Feb. 14, 2017

**SHEET NO.**

C-1.2



CORPORATE PARK INVESTORS LTD.  
/ BELLWEATHER REAL ESTATE  
1.695 ACRES  
600-0030-0328

FIRSTAR BANK  
NATIONAL ASSOC US  
BANK TAX DEPT  
1.139 ACRES  
600-0030-0329

CORPORATE PARK INVESTORS LTD.  
/ BELLWEATHER REAL ESTATE  
1.854 ACRES  
600-0030-0326

COMMUNITY BUILDERS  
FIFTH SUBDIVISION  
P.B. 44, PG. 60 R.L.

NW CORNER  
R.L. 71320

1.00 Acres  
Parcel No. 600-0030-0402  
FIFTH THIRD BANK  
10869 MONTGOMERY RD  
1.00 ACRES

0.463 Acres  
Parcel No. 600-0030-0074  
FIFTH THIRD BANK  
10875 MONTGOMERY RD  
0.463 ACRES

# MONTGOMERY ROAD - S.R.22 (RIGHT-OF-WAY VARIES)

## NOTES:

1. CURRENT ZONING FOR THE PROPERTY IS "E". ANY SPECIFIC QUESTIONS REGARDING ZONING SHALL BE DIRECTED TO THE SYCAMORE TWP. ZONING DEPARTMENT.
2. USE WILL BE COMMERCIAL AND IS UNDERSTOOD TO BE COMPATIBLE WITH CURRENT ZONING.
3. PER FLOOD INSURANCE RATE MAP NUMBER 39061C0114E EFFECTIVE FEBRUARY 17, 2010, THE SUBJECT PROPERTY LIES IN AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.
4. ALL DEMOLITION SHALL BE PERFORMED BY A LICENSED CONTRACTOR AND BE PERFORMED PER LOCAL REQUIREMENTS. ALL REMEDIATION WORK SHALL BE PROVIDED BY A PROPERLY LICENSED ABATEMENT CONTRACTOR. ALL DEBRIS TO BE DISPOSED OF IN A LAWFUL MANNER AND APPROVED BY OWNER.
5. CONTRACTOR SHALL FIELD VERIFY AND MARK LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEERING FIRM IF ANY UTILITIES OR UNDERGROUND FEATURES ARE ENCOUNTERED WHICH ARE NOT SHOWN ON THESE PLANS OR DIFFER IN LOCATION, HORIZONTAL OR VERTICAL.
6. ANY PORTIONS OF WALK, CURB, OR PAVEMENT (OUTSIDE OF SITE CONSTRUCTION LIMITS) DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED IN-KIND.
7. CONTRACTOR SHALL INSTALL CONSTRUCTION BARRIER FENCE DURING AND AFTER DEMOLITION. ANY OPEN EXCAVATION SHALL BE PROPERLY BARRICADED AS REQUIRED BY LOCAL, STATE OR FEDERAL REGULATIONS.
8. CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.
9. EXCAVATION AND DEMOLITION CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT MUD AND DEBRIS FROM ENTERING EXISTING STORM SEWERS AND WATER COURSES.
10. 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 PROPERTY.
11. 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.

STATE OF OHIO  
JONATHAN R. EVANS  
E-65653  
REGISTERED PROFESSIONAL ENGINEER  
2/14/2017

REVISONS  
NO. & DESCRIPTION  
BY  
DATE

EVANS ENGINEERING  
4240 AIRPORT ROAD, SUITE 108  
CINCINNATI, OHIO 45226  
(513) 821-2168  
(513) 821-2173 FAX  
ATTN: JONATHAN R. EVANS, P.E.

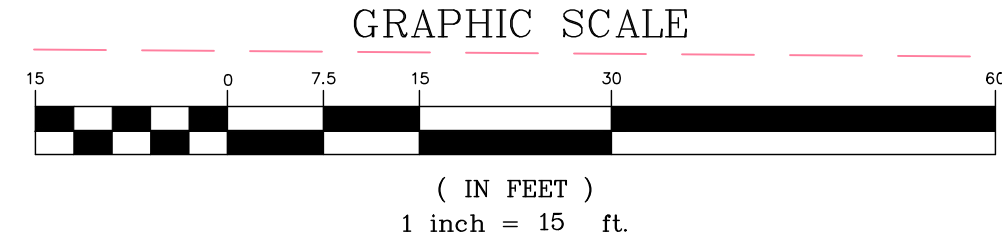
SKYLINE CHILI POINTE  
EXISTING CONDITIONS  
& DEMO PLAN  
10869 & 10875 MONTGOMERY ROAD,  
SYCAMORE TOWNSHIP, HAMILTON COUNTY,  
OHIO 45255

SCALE:	HORIZ.	VERT.
	1"=15'	N/A
JOB NO.	16-154	
DATE	Feb. 14, 2017	

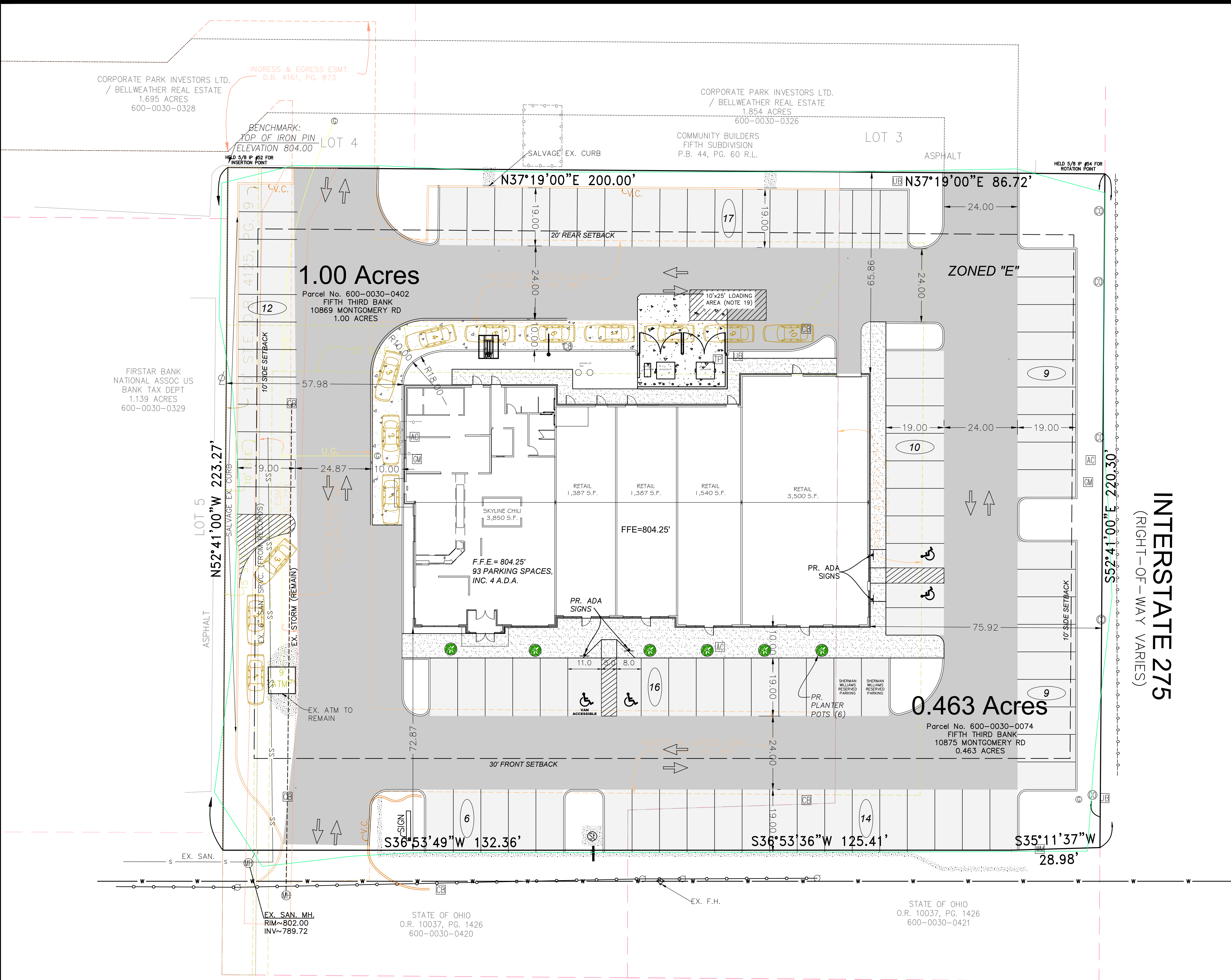
SHEET NO.

C-2

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







**PARKING TABLE:**

PROPOSED PARKING=	89
ADA ACCESSIBLE =	4
TOTAL PARKING	93 SPACES

PARKING REQ. = 1 SPACE PER 100 SF (RESTAURANT) + 1 SPACE PER 300 SFT (SERVICE ESTABLISHMENT) = 3850 / 100 + 7814 / 300 = 64.55  
TOTAL REQUIRED = 65 SPACES

PROVIDING MINIMUM OF 5 CAR STACK IN DRIVE-THRU

**IMPERVIOUS SURFACE RATIO:**

LOT SIZE = 63,703 SF (1.46 ACRES)  
IMPERVIOUS AREA = 56,337 SF  
ISR= 0.88

**LEGEND-PROP. FEATURES**

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

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

STATE OF OHIO  
JONATHAN R. EVANS  
E-65653  
REGISTERED PROFESSIONAL ENGINEER  
2/14/2017  
REGISTERED ENGINEER No. 65653

REVISIONS	
NO.	DESCRIPTION

**EVANS ENGINEERING**  
4240 AIRPORT ROAD, SUITE 108  
CINCINNATI, OHIO 45226  
(513) 821-2168  
(513) 821-2173 FAX  
ATTN: JONATHAN R. EVANS, P.E.

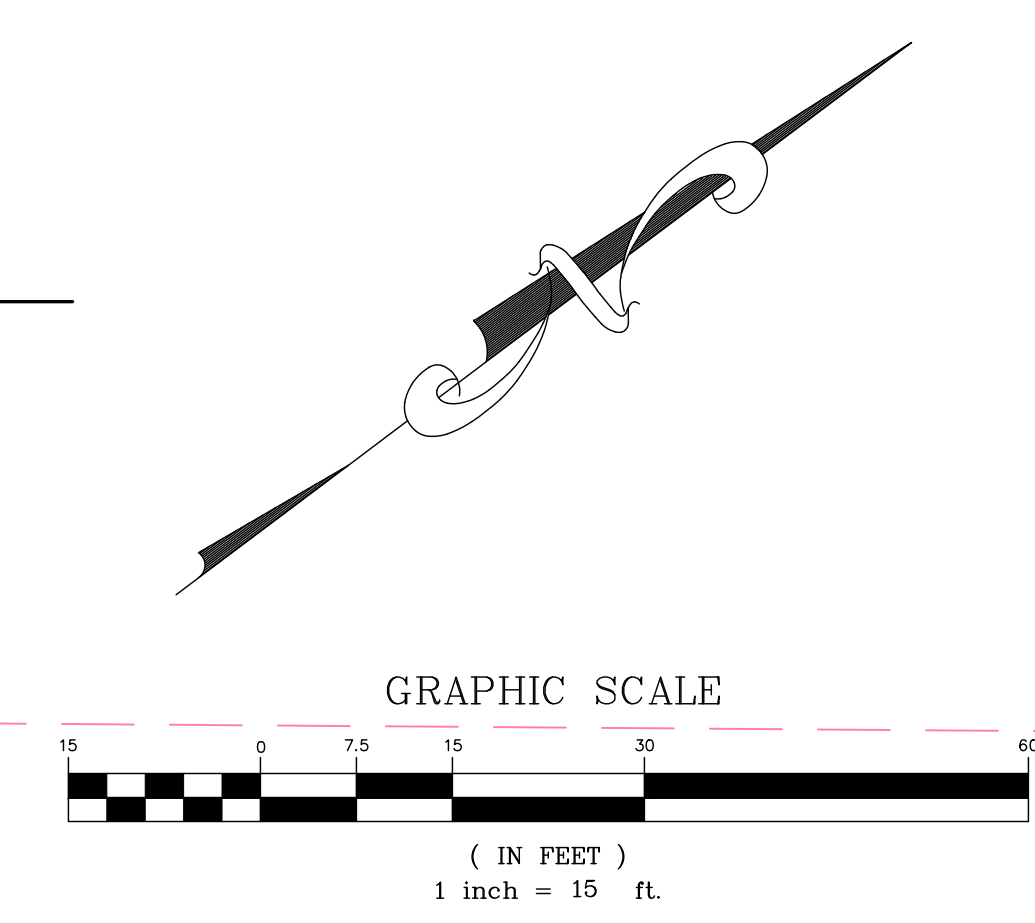
SKYLINE CHILI POINTE  
**SITE DIMENSION PLAN**  
10869 & 10875 MONTGOMERY ROAD,  
SYCAMORE TOWNSHIP, HAMILTON COUNTY,  
OHIO

SCALE:	HORIZ.	VERT.
	1"=15'	N/A
JOB NO.	16-154	
DATE	Feb. 14, 2017	

**SHEET NO.**  
C-3

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

**MONTGOMERY ROAD - S.R.22**  
(RIGHT-OF-WAY VARIES)



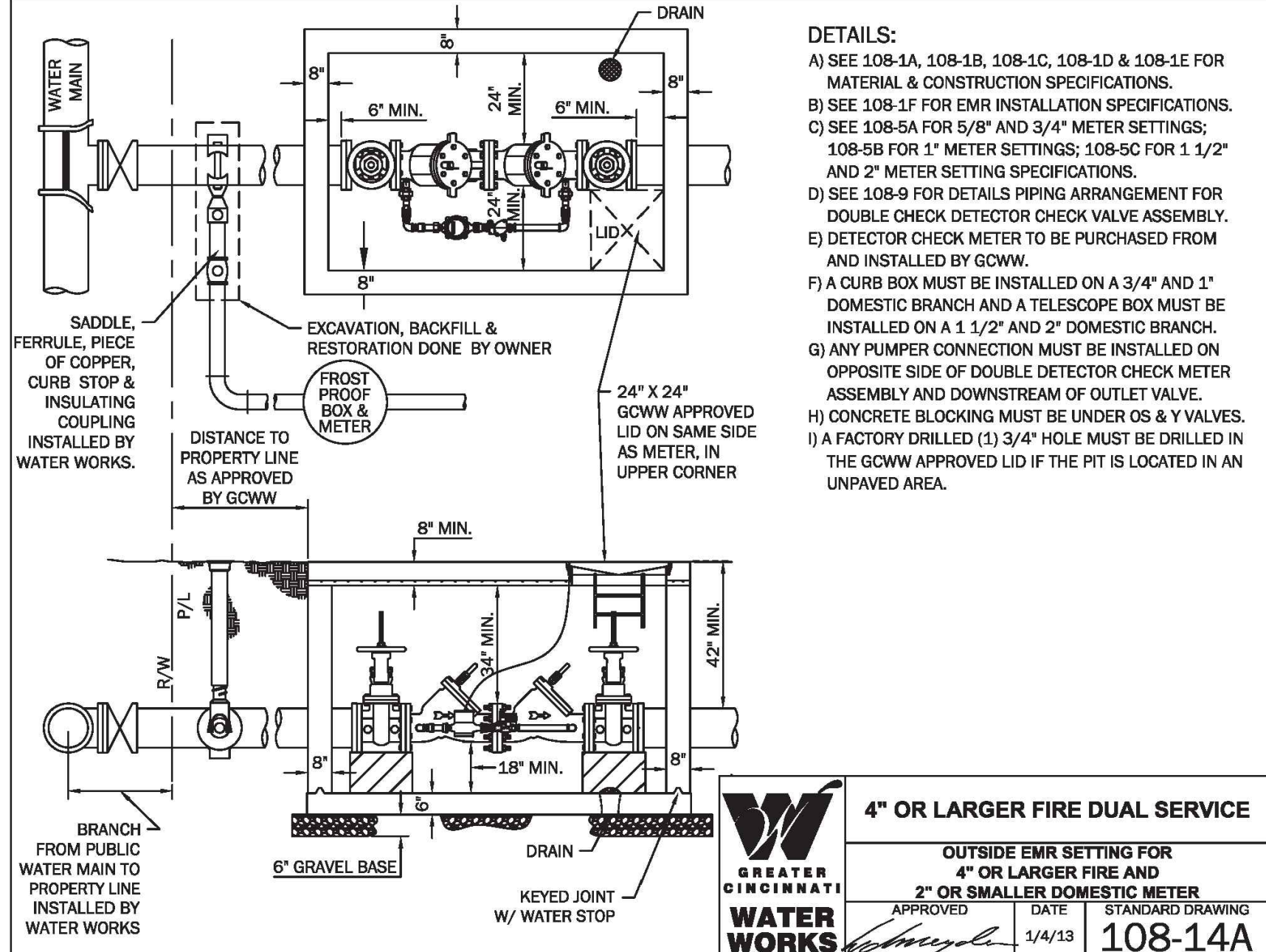
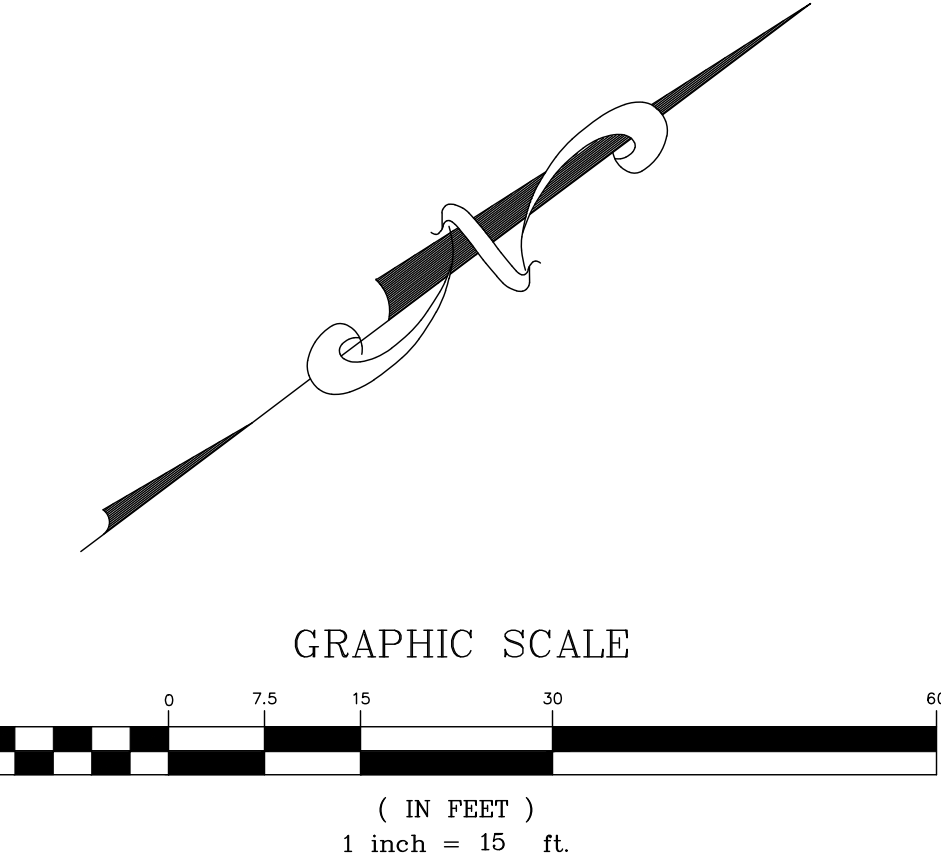


NOTES:

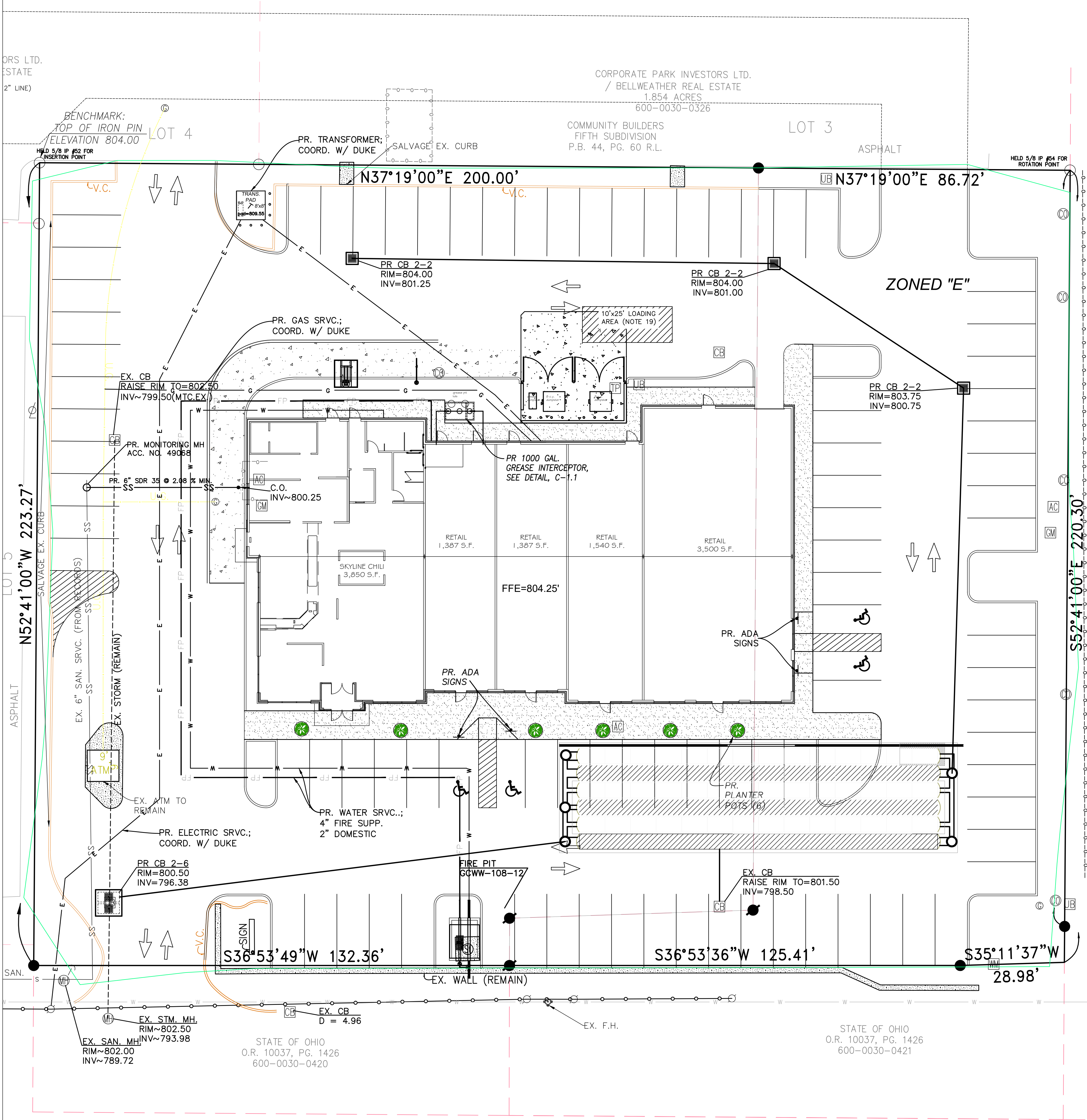
- CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST FOR REPAIRING OR RELOCATING ALL UTILITIES AFFECTED BY CONSTRUCTION. LOCATIONS AS SHOWN ARE BASED UPON UTILITY RECORDS AND FIELD SURVEY BY TRI-STATE LOCATION SERVICES INC.
- ALL UTILITY SERVICES SHOULD BE COORDINATED WITH THE LOCAL PROVIDER FOR OPTIMAL PLACEMENT OF SERVICES (SEE COVER SHEET FOR CONTACTS).
- 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. THE PLUMBING CONTRACTOR MUST CONDUCT A TV-CAMERA INSPECTION OF THE EXISTING SEWER AND VERIFY/DETERMINE THE ACTUAL DEPTH AND CONDITION OF SEWERS TO BE RE-USED. A TAP PERMIT MUST BE OBTAINED FROM MSD FOR BUILDING SEWERS. THE SEWER CONTRACTOR MUST CONTACT THE MSD FIELD OFFICE AT 244-1366 FOR SEWER INSPECTION AFTER TAP PERMIT IS ISSUED. THE SEWER CONTRACTOR MUST BE LICENSED AND BONDED WITH MSD.
5. A TAP PERMIT MUST BE OBTAINED FROM METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI (MSD) FOR BUILDING SEWERS. THE SEWER CONTRACTOR MUST CONTACT MSD FIELD OFFICE FOR SEWER INSPECTION AFTER TAP PERMIT IS ISSUED.
- 5A. IF LOWEST LEVEL ELEVATION IS BELOW RIM ELEVATION OF UPSTREAM MANHOLE, THEN TAP MUST INCLUDE BACKFLOW PREVENTION OR BE PUMPED TO GRAVITY.
6. SANITARY CLEANOUTS WITHIN PAVEMENT SHALL HAVE NEENAH R-1976 LID AND FRAME.
7. COORDINATE WITH GREATER CINCINNATI WATER WORKS FOR BUILDING WATER TAP.
8. ROOF DRAINS, FOUNDATION DRAINS, COOLING WATER, SWIMMING POOL WATER OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
9. ROOF DRAINS SHALL BE SDR 35 AND TIED DIRECTLY INTO THE UNDERGROUND STORM SEWER SYSTEM, OR GRAVITY TO DITCH.
10. SEE ELECTRICAL PLAN (BY OTHERS) FOR LOCATION OF METER PACKS.
11. A SIGN PERMIT IS NECESSARY. APPLICANT MUST SUBMIT AND GET APPROVAL BY ZONING DEPARTMENT AND BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.
12. ALL DIMENSIONS ARE TO FACE OF CURB, CENTERLINE OF STRIPE, PROPERTY LINE OR R/W UNLESS OTHERWISE NOTED.
13. ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED.
14. ALL CONSTRUCTION STAGING ACTIVITIES MUST BE SELF-CONTAINED WITHIN THE LOT.
15. 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.
16. ONLY THE ACCESS POINTS LOCATED UPON THE PROPERTY SHALL BE USED BY ALL LABORERS, SUPPLIERS, CONTRACTORS AND OTHERS CONNECTED WITH SUCH CONSTRUCTION ACTIVITIES.
17. ALL CONCRETE FOR SITE WORK SHALL BE PER ODOT STDs, 4,000 PSI
18. ALL CONCRETE PAVING (EXCEPT FOR PAD WHERE DUMPSTERS SITS, AND ENTRY APRONS) SHALL BE DYED BLACK. PAD LEADING UP TO DUMPSTER SHALL BE DYED BLACK.
19. ALL BOLLARDS SHALL HAVE PLASTIC COVERS, SEE ARCH. DETAILS.
20. 10'x25' LOADING SPACE SHOWN GRAPHICALLY. THE INTENT WOULD NOT BE TO STRIPE THIS, UNLESS IT BECOMES A PROBLEM OR REQUIRED BY TOWNSHIP.

LEGEND-PROP. FEATURES

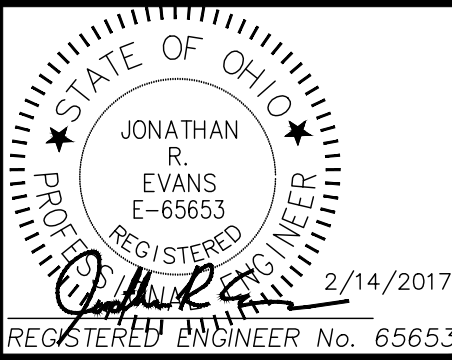
- S — EXISTING 12" CONCRETE SANITARY SEWER
- W — EXISTING 8" CAST IRON WATER MAIN
- OE — EXISTING OVERHEAD ELECTRIC SERVICE
- W — PROPOSED DOMESTIC WATER SERVICE (EX. 1 1/2" METER, INSTALL 2" LINE)
- FP — PROPOSED FIRE LINE; DESIGN BY OTHERS (6" LINE)
- SS — PROPOSED 6" SANITARY LATERAL PVC SDR 35 @ 2.08% MIN.
- E — PROPOSED UNDERGROUND ELECTRIC SERVICE
- T — PROPOSED ELECTRIC TRANSFORMER
- PROPOSED UNDERGROUND TELEPHONE SERVICE
- PROPOSED GAS SERVICE (SIZE TBD BY USE)
- INSTALL 4" CONDUIT WITH PULL STRING AND LOCATOR WIRE
- DS — PR. DOWNSPOUT
- RD — PR. 6" SDR 35 ROOF DRAIN @ 2.08% (OR SLOPED AS NOTED)
- SA A B — PR. LIGHTING; SEE LIGHTING PLANS (BY OTHERS)



FIRE VAULT DETAIL

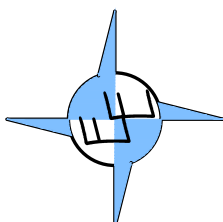


MONTGOMERY ROAD - S.R.22  
(RIGHT-OF-WAY VARIES)



REVISIONS		NO. & DESCRIPTION	
DATE	BY		

EVANS ENGINEERING  
4240 AIRPORT ROAD, SUITE 108  
CINCINNATI, OHIO 45226  
(513) 921-2168  
(513) 921-2173 FAX  
ATTN: JONATHAN R. EVANS, P.E.



UTILITY SERVICE PLAN  
SKYLINE CHILI POINTE  
10869 & 10875 MONTGOMERY ROAD,  
SYCAMORE TOWNSHIP, HAMILTON COUNTY,  
OHIO

SCALE:	HORIZ.	VERT.
	1"=15'	N/A
JOB NO.	16-154	
DATE	Feb. 14, 2017	

SHEET NO.

C-3.1



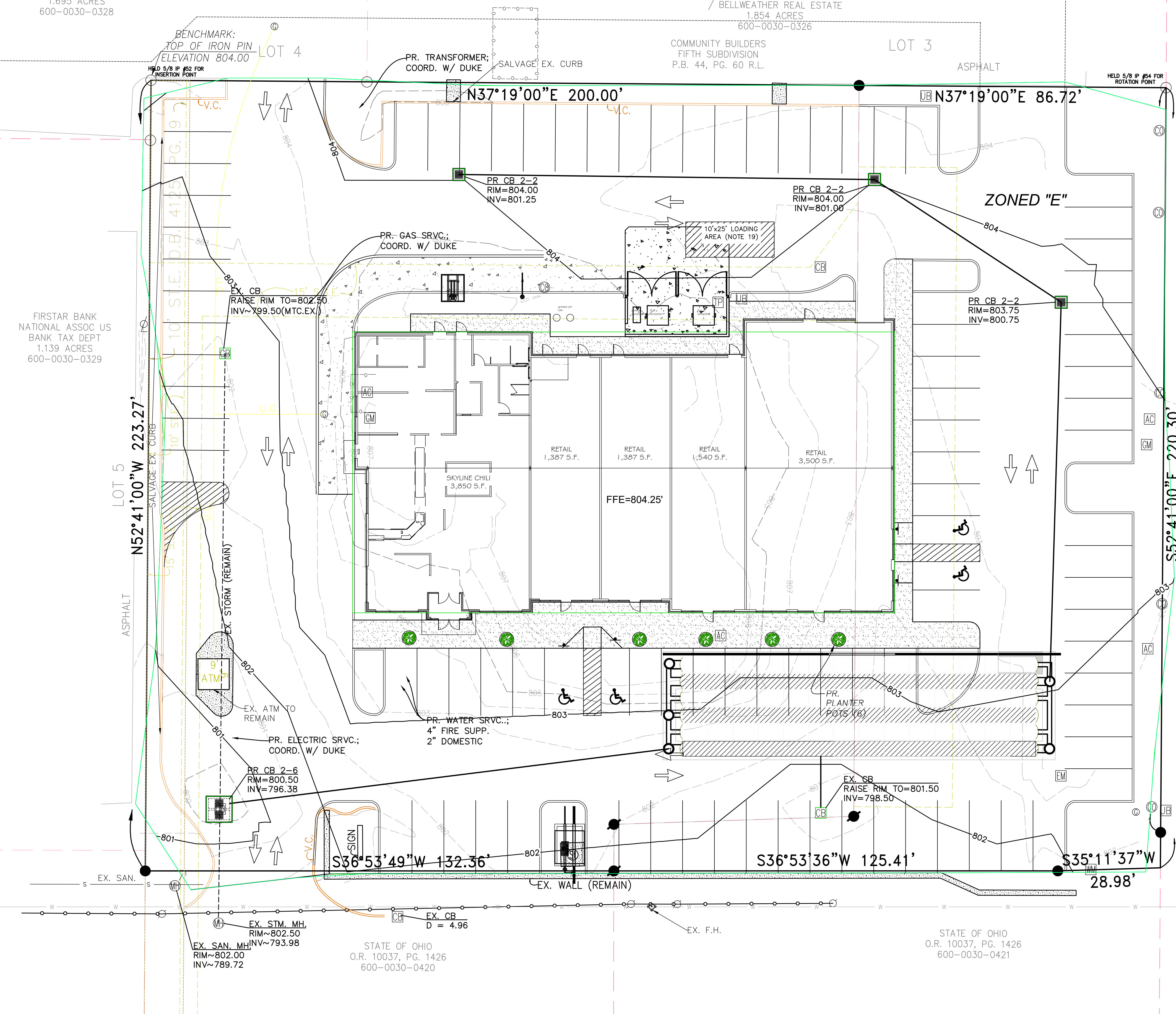


CORPORATE PARK INVESTORS LTD.  
/ BELLWEATHER REAL ESTATE  
1.695 ACRES  
600-0030-0328

CORPORATE PARK INVESTORS LTD.  
/ BELLWEATHER REAL ESTATE  
1.854 ACRES  
600-0030-0326

COMMUNITY BUILDERS  
FIFTH SUBDIVISION  
P.B. 44, PG. 60 R.L.

FIRSTAR BANK  
NATIONAL ASSOC US  
BANK TAX DEPT  
1.139 ACRES  
600-0030-0329



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 NOVEMBER 15, 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 COMPACTION 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.

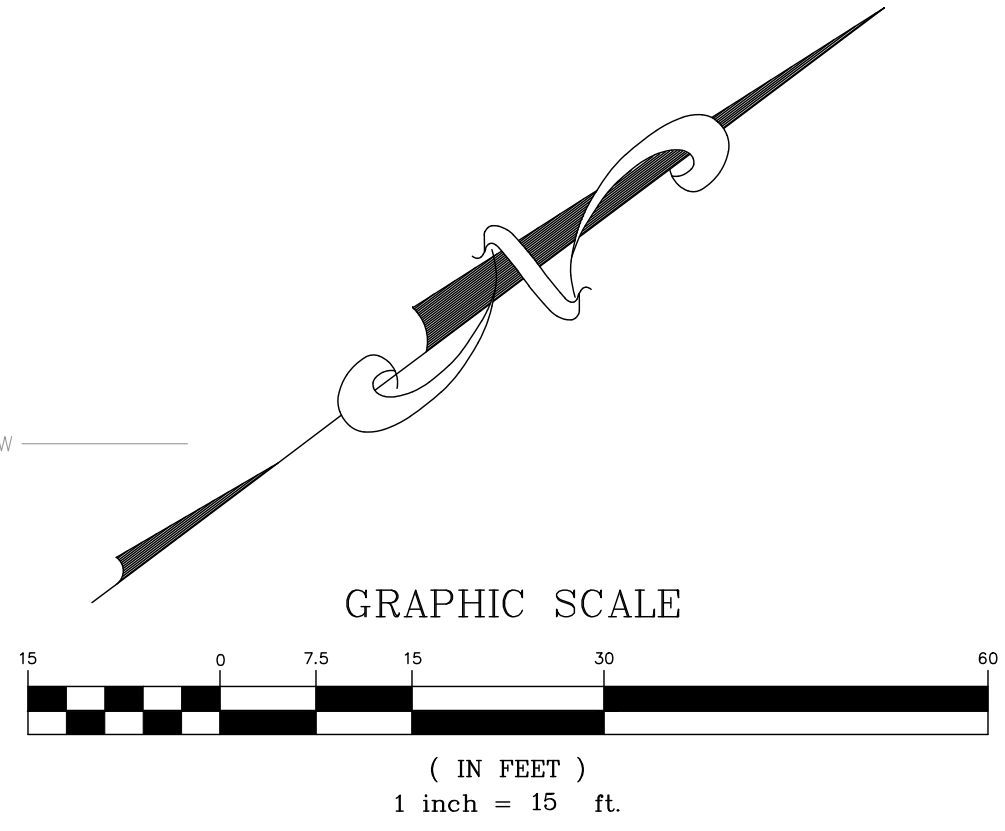
SPECIAL NOTES:

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.

INTERSTATE 275  
(RIGHT-OF-WAY VARIES)



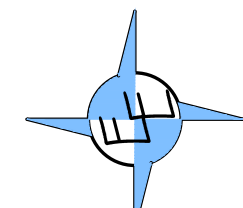
MONTGOMERY ROAD - S.R.22  
(RIGHT-OF-WAY VARIES)

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

STATE OF OHIO  
JONATHAN R. EVANS  
E-65653  
REGISTERED PROFESSIONAL ENGINEER  
2/14/2017

REVISIONS	
NO.	DESCRIPTION

EVANS ENGINEERING  
4240 AIRPORT ROAD, SUITE 108  
CINCINNATI, OHIO 45226  
(513) 921-2168  
(513) 921-2173 FAX  
ATTN: JONATHAN R. EVANS, P.E.



SKYLINE-MONTGOMERY  
GRADING PLAN

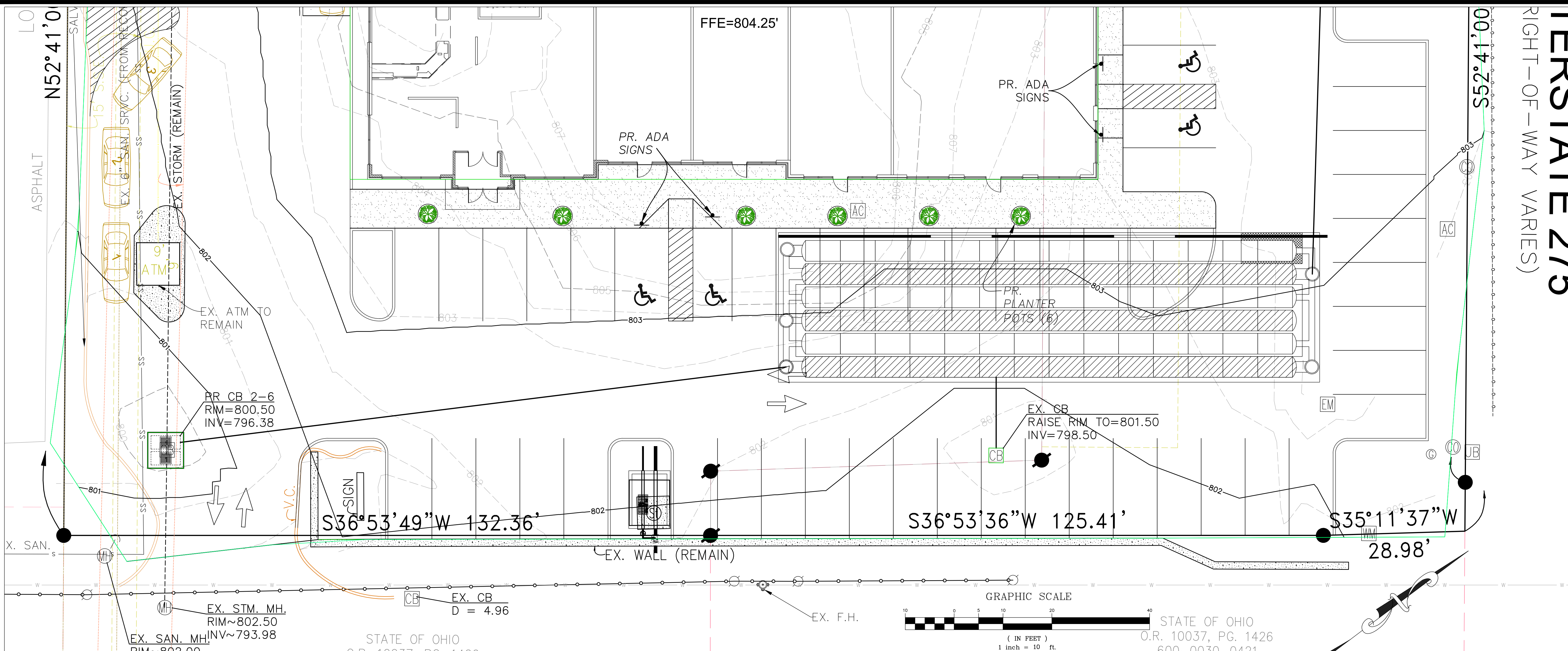
10869 & 10875 MONTGOMERY ROAD,  
SYCAMORE TOWNSHIP, HAMILTON COUNTY,  
OHIO

SCALE:	HORIZ.	VERT.
	1"=15'	N/A
JOB NO.	16-154	
DATE	Feb. 14, 2017	

SHEET NO.

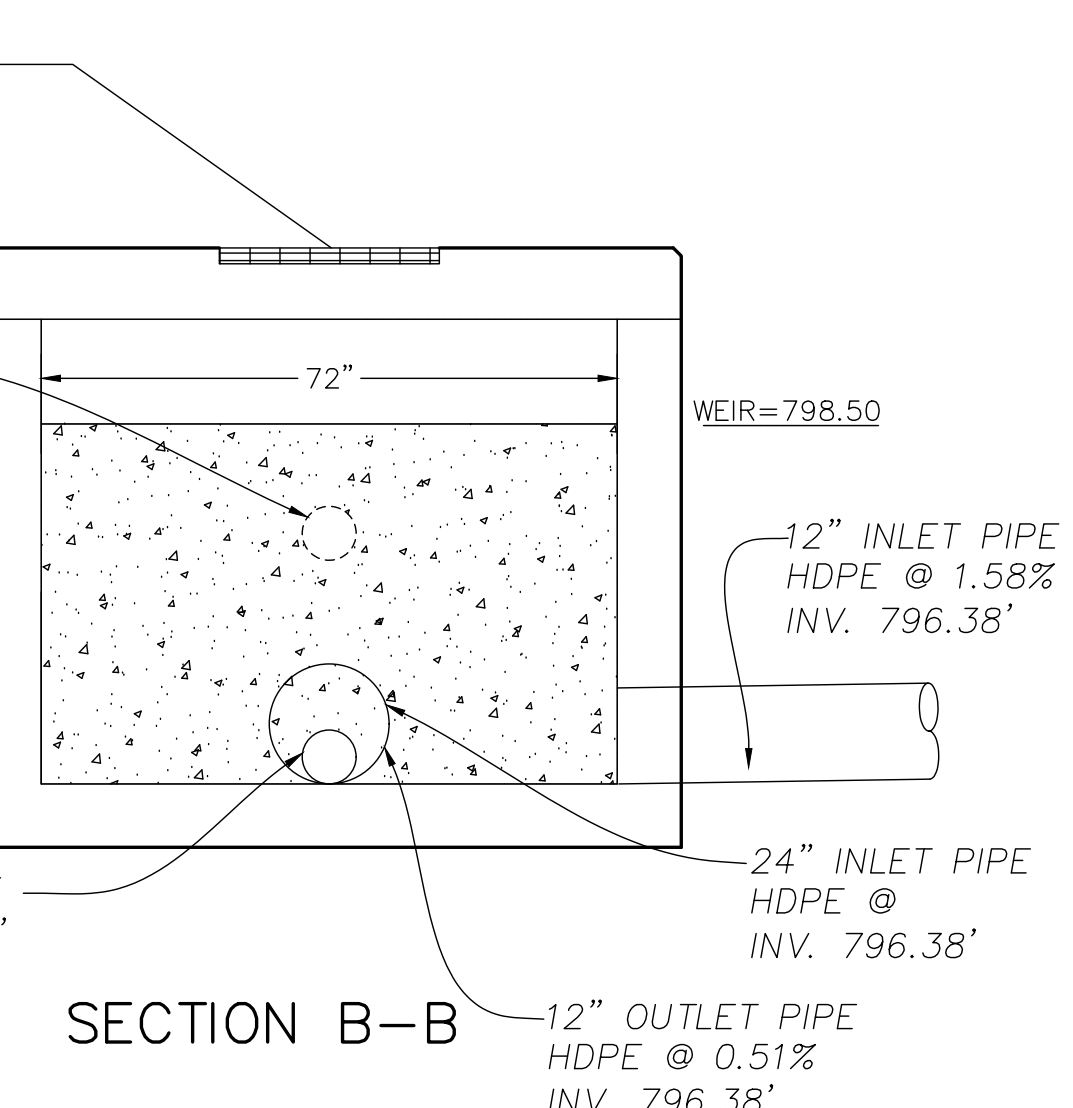
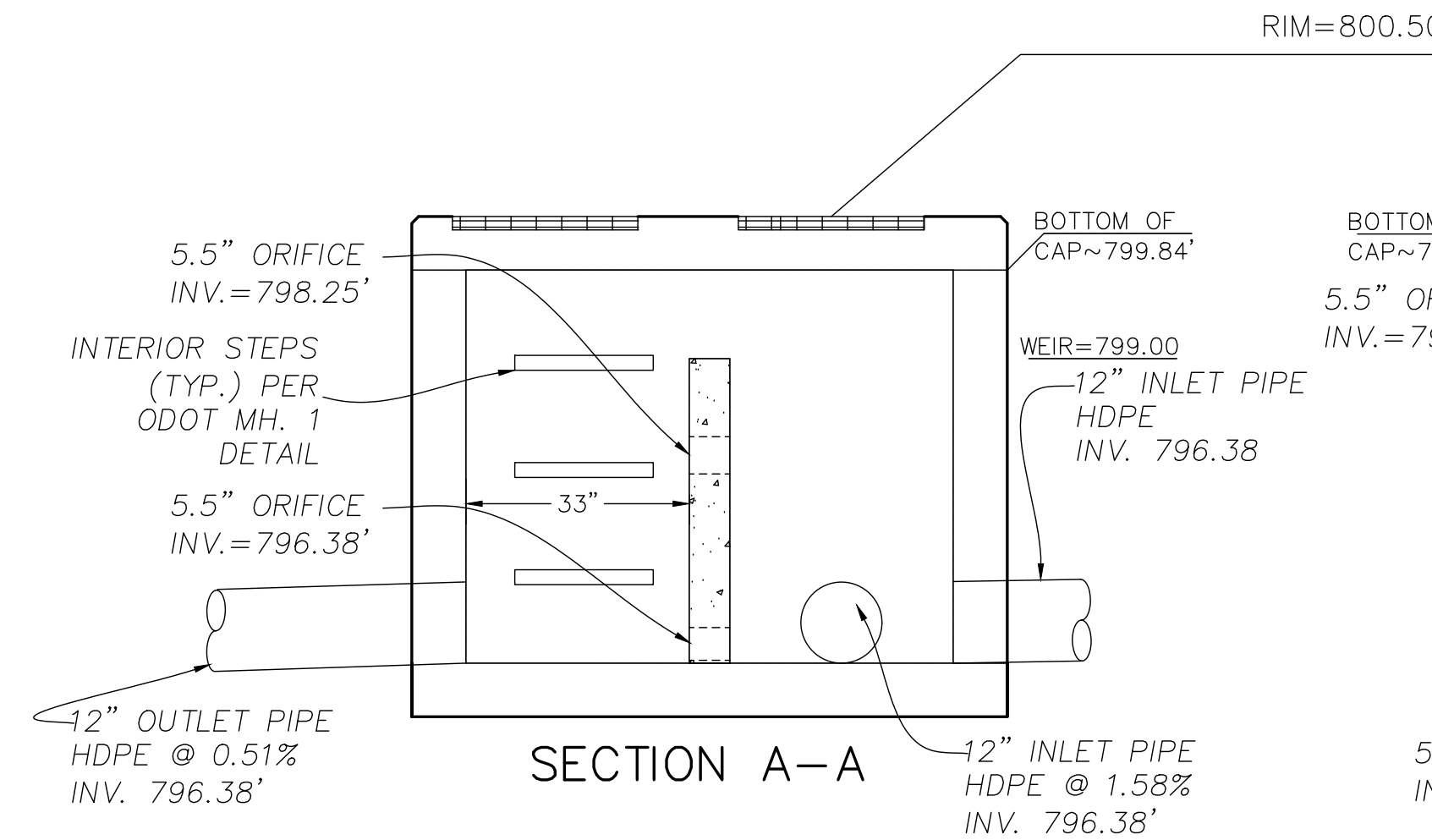
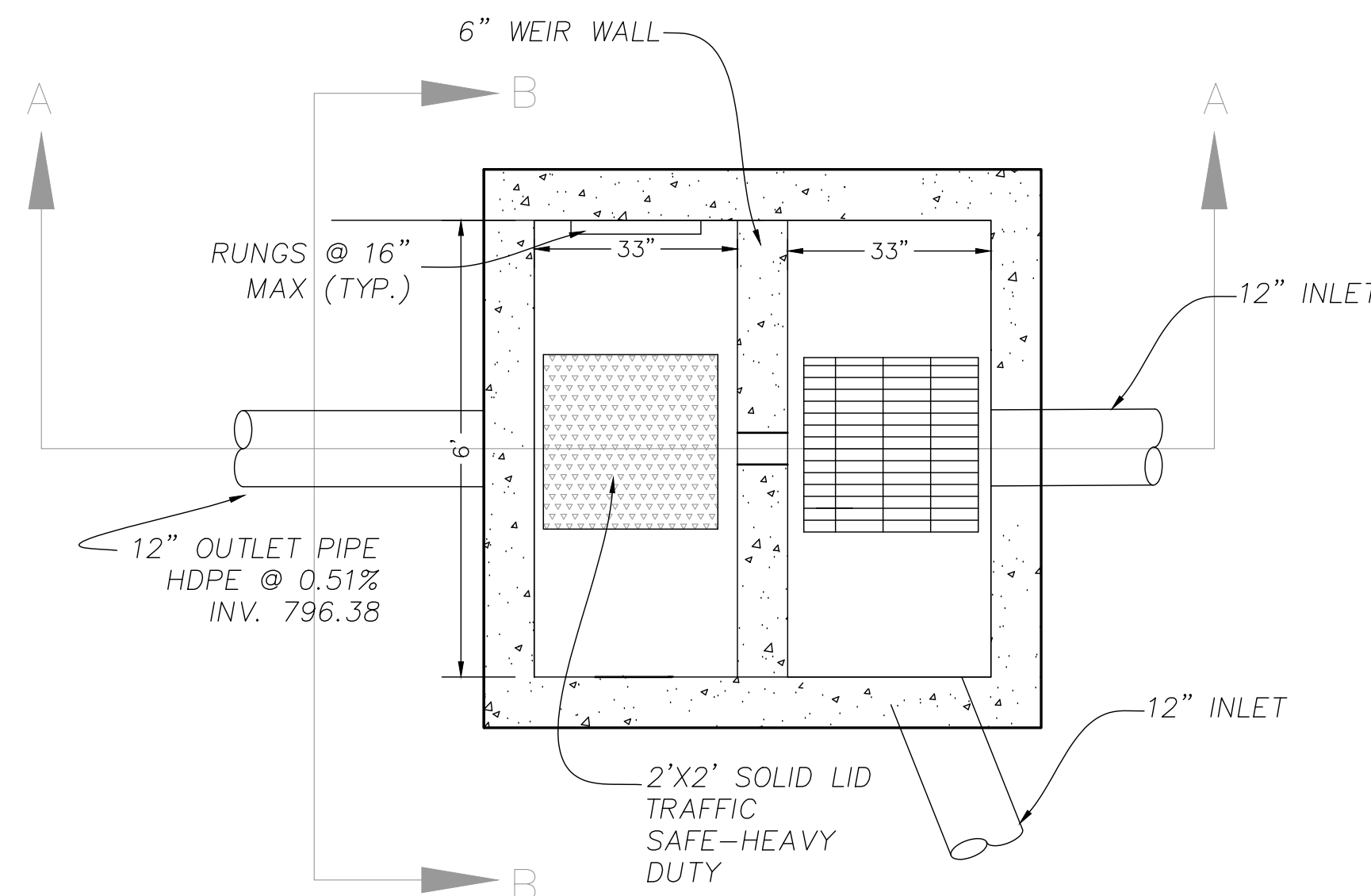
C-4



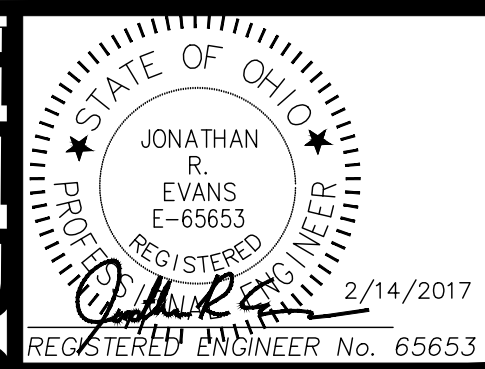


**PROPOSED LAYOUT**

(84) STORMTECH SC-740 CHAMBERS  
(12) STORMTECH SC-740 END CAPS  
INSTALLED WITH 9" COVER STONE, 6" BASE STONE, 40% STONE VOID  
INSTALLED SYSTEM VOLUME: 4,173 CF (PERIMETER STONE INCLUDED)  
AREA OF SYSTEM: 1900 FT<sup>2</sup>  
PERIMETER OF SYSTEM: 186 FT



**DETENTION CONTROL STRUCTURE  
STRUCTURE NO. 1  
MODIFIED ODOT CB 2-6**



REVISIONS	
NO.	DESCRIPTION

**EVANS ENGINEERING**  
4240 AIRPORT ROAD, SUITE 108  
CINCINNATI, OHIO 45226  
(513) 321-2168  
(513) 321-2173 FAX  
ATTN: JONATHAN R. EVANS, P.E.

SKYLINE CHILI POINTE

DETENTION PLAN

10869 & 10875 MONTGOMERY ROAD,  
SYCAMORE TOWNSHIP, HAMILTON COUNTY,  
OHIO

SCALE:	HORIZ.	VERT.
	VARIES	N/A
JOB NO.	16-154	
DATE	Feb. 14, 2017	
SHEET NO.		
C-4.1		



EROSION AND SEDIMENT CONTROL NOTES:

PRE-CONSTRUCTION:

1. THE CONTRACTOR SHALL NOTIFY HAMILTON COUNTY SOIL EROSION (LOCAL AUTHORITY) AT LEAST SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITIES AND, UNLESS WAIVED BY THE LOCAL AUTHORITY, WILL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING WITH PROJECT REPRESENTATIVES FROM THE LOCAL AUTHORITY.
2. THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITY BY TELEPHONE AT THE FOLLOWING POINTS:
- A. THE REQUIRED PRE-CONSTRUCTION MEETING.
- B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
- C. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE
- D. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES
- E. PRIOR TO FINAL ACCEPTANCE
3. A COPY OF THE APPROVED SEDIMENT AND EROSION CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
4. 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 A LOCAL AUTHORITY REPRESENTATIVE PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES.
5. 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 A LOCAL AUTHORITY REPRESENTATIVE.
6. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE LOCAL AUTHORITY 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.
7. 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 A LOCAL AUTHORITY 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 A LOCAL AUTHORITY REPRESENTATIVES UPON REQUEST.

SAFETY:

8. THE LOCAL AUTHORITY SITE REPRESENTATIVE ALWAYS HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES IF DEEMED NECESSARY.
9. 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.
10. 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.
11. STOCKPILE SLOPES SHALL NOT BE STEEPER THAN 2:1.

STABILIZED CONSTRUCTION ENTRANCE:

12. 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.
13. 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:

14. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN TWENTY (20) FEET OR EXISTING OR PROPOSED FOUNDATION OR TRAFFIC AREA. NO STRUCTURE MAY BE CONSTRUCTED WITHIN TWENTY (20) FEET OF AN ACTIVE SEDIMENT TRAP OR BASIN.
15. SEDIMENT TRAPS AND BASINS MUST HAVE STABLE INFLOW AND OUTFLOW POINTS SO THAT WATER CAN DISCHARGE WITHOUT CAUSING EROSION.
16. SEDIMENT BASINS/TRAPS SHALL NOT BE GREATER THAN FOUR (4) FEET IN DEPTH.
17. 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.
18. SEDIMENT REMOVED FROM TRAPS AND BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR VEGETATION PRESERVATION AREA.
19. 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.
20. SEDIMENT BASINS MUST BE REMOVED WITHIN THIRTY SIX (36) MONTHS AFTER THEIR CONSTRUCTION.
21. 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:

22. 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.
23. 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.
24. ALL AREAS WITHIN FIFTY (50) FEET OF A STREAM MUST BE STABILIZED WITHIN TWO (2) CALENDAR DAYS OF ACHIEVING FINAL GRADE.
25. ALL AREAS THAT ARE TO REMAIN IDLE, INCLUDING STOCK PILES, FOR FOURTEEN (14) CALENDAR DAYS MUST BE STABILIZED WITH SEED OR SOD.
26. 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.
27. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED WITHIN AN APPROVED EROSION CONTROL MATTING, RIP-RAP, OR BY OTHER APPROVED STABILIZATION MEASURES WITHIN TWO (2) DAYS OF ACHIEVING FINAL GRADE.
28. TEMPORARY SEDIMENT CONTROL DEVICES MAY BE REMOVED, WITH PERMISSION OF A CITY REPRESENTATIVE, THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS.
29. 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.

A pre-construction meeting is required prior to the start of clearing and grading

30. 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.

31. ALL WASTE AND BORROW AREAS OFF-SITE MUST BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.

OTHER:

32. 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.
33. 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.
34. 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.
35. ALL SLOPES STEEPER THAN 3:1 REQUIRED GRADE TREATMENT, EITHER STAIR-STEP GRADING, GROOVING, FURROWING, OR TRACKING IF THEY ARE TO BE STABILIZED WITH VEGETATION.
36. 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.
37. CONSTRUCTION AND DEMOLITION DEBRIS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE STATUTES.

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. OH0000003-"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 REPLACED 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 SEEDDED 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.

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 EROSION 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--LETS ARE NOT TO BE CLOSER THAN 20' FROM THE PROPERTY LINES.

**Vehicle and Equipment Maintenance** **NS-10**

**Definition and Purpose:** These provisions are intended to ensure that all vehicles and equipment used on the project are properly maintained and are in good working order. This includes regular maintenance, proper use, and proper storage of equipment.

**Standards and Specifications:**

- All equipment shall be properly maintained and in good working order at all times.
- All equipment shall be properly stored and protected from weather and theft.
- All equipment shall be properly used and operated in accordance with the manufacturer's instructions.
- All equipment shall be properly cleaned and washed after use.
- All equipment shall be properly stored and protected from weather and theft.
- All equipment shall be properly used and operated in accordance with the manufacturer's instructions.
- All equipment shall be properly cleaned and washed after use.

**Maintenance and Inspection:**

- The Engineer shall inspect all equipment used on the project at all times.
- The Contractor shall maintain all equipment used on the project in good working order at all times.
- The Contractor shall provide all necessary maintenance and repair services for all equipment used on the project.
- The Contractor shall provide all necessary cleaning and washing services for all equipment used on the project.
- The Contractor shall provide all necessary storage and protection services for all equipment used on the project.
- The Contractor shall provide all necessary use and operation services for all equipment used on the project.

**Vehicle and Equipment Fueling** **NS-9**

**Definition and Purpose:** These provisions are intended to ensure that all vehicles and equipment used on the project are properly fueled and that the fueling process is safe and secure. This includes proper fueling procedures, proper storage of fuel, and proper security of fuel tanks.

**Standards and Specifications:**

- All fueling shall be done in a safe and secure manner.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.

**Maintenance and Inspection:**

- The Engineer shall inspect all fueling areas used on the project at all times.
- The Contractor shall maintain all fueling areas used on the project in good working order at all times.
- The Contractor shall provide all necessary fueling services for all equipment used on the project.
- The Contractor shall provide all necessary storage and protection services for all fueling areas used on the project.
- The Contractor shall provide all necessary use and operation services for all fueling areas used on the project.
- The Contractor shall provide all necessary security services for all fueling areas used on the project.

**Vehicle and Equipment Fueling** **NS-9**

**Definition and Purpose:** These provisions are intended to ensure that all vehicles and equipment used on the project are properly fueled and that the fueling process is safe and secure. This includes proper fueling procedures, proper storage of fuel, and proper security of fuel tanks.

**Standards and Specifications:**

- All fueling shall be done in a safe and secure manner.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.
- All fueling shall be done in a designated fueling area.

**Maintenance and Inspection:**

- The Engineer shall inspect all fueling areas used on the project at all times.
- The Contractor shall maintain all fueling areas used on the project in good working order at all times.
- The Contractor shall provide all necessary fueling services for all equipment used on the project.
- The Contractor shall provide all necessary storage and protection services for all fueling areas used on the project.
- The Contractor shall provide all necessary use and operation services for all fueling areas used on the project.
- The Contractor shall provide all necessary security services for all fueling areas used on the project.

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 GROUND LIMESTONE.
- B. FERTILIZER (IN LIEU OF A SOILS TEST RECOMMENDATION) SHALL BE APPLIED AT A RATE OF 6 POUNDS PER 1000 SF OR 250 POUNDS PER ACRE OF 10-10-10 OR 12-12-12 ANALYSIS OR EQUIVALENT.

1.2 SEEDING

SEEDING PERIOD	TYPE	RATE (1000 SF)
1. 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	

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

2-1 SEEDING FOR STEEP BANKS OR CUTS	
1. SPRING, SUMMER, AND FALL	1. TALL FESCUE 1 LBS 2. CROWN VETCH 0.25 LBS TALL FESCUE 0.50 LBS
3. FLATPEA	0.50 LBS

2-2 SEEDING FOR WATERWAYS AND ROAD DITCHES	
1. SPRING, SUMMER AND FALL	1. TALL FESCUE 1 LBS

- B. APPLY THE SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER (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 (1/4) OF AN INCH.

TEMPORARY AND PERMANENT SEEDING( CONT.)

- C. WHEN FEASIBLE, EXCEPT WHERE A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMD 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:
1. MECHANICAL--USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH INTO THE SOIL.
  2. ASPHALT EMULSION--APPLY AT THE RATE OF 160 GALLONS PER ACRE INTO THE MULCH AS IT IS BEING APPLIED.
  3. MULCH NETTING--USE ACCORDING TO THE MANUF. RECOMMENDATIONS.

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

STABILIZATION:

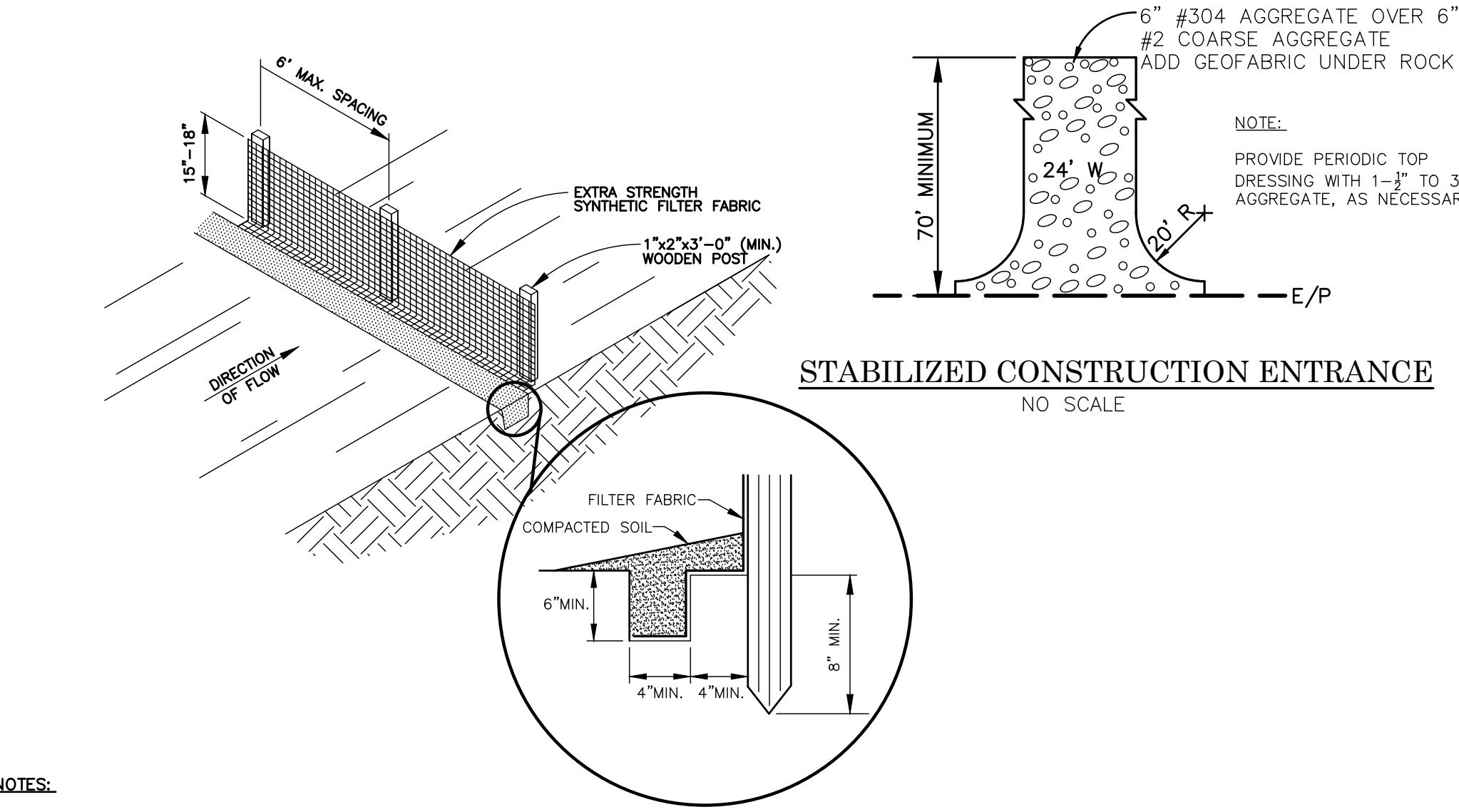
DISTURBED AREAS MUST BE STABILIZED AS FOLLOWS:

PERMANENT STABILIZATION

Area requiring permanent stabilization	Time frame to apply erosion control
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 surface water 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 control
Any disturbed areas within 50 feet of a surface water and not at final grade	Within two days of the most recent disturbance. If the area will remain idle 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 surface water of the state	Within seven days of the most recent disturbance within the area
Disturbed areas that will be idle over winter	For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s) Prior to the onset of winter weather

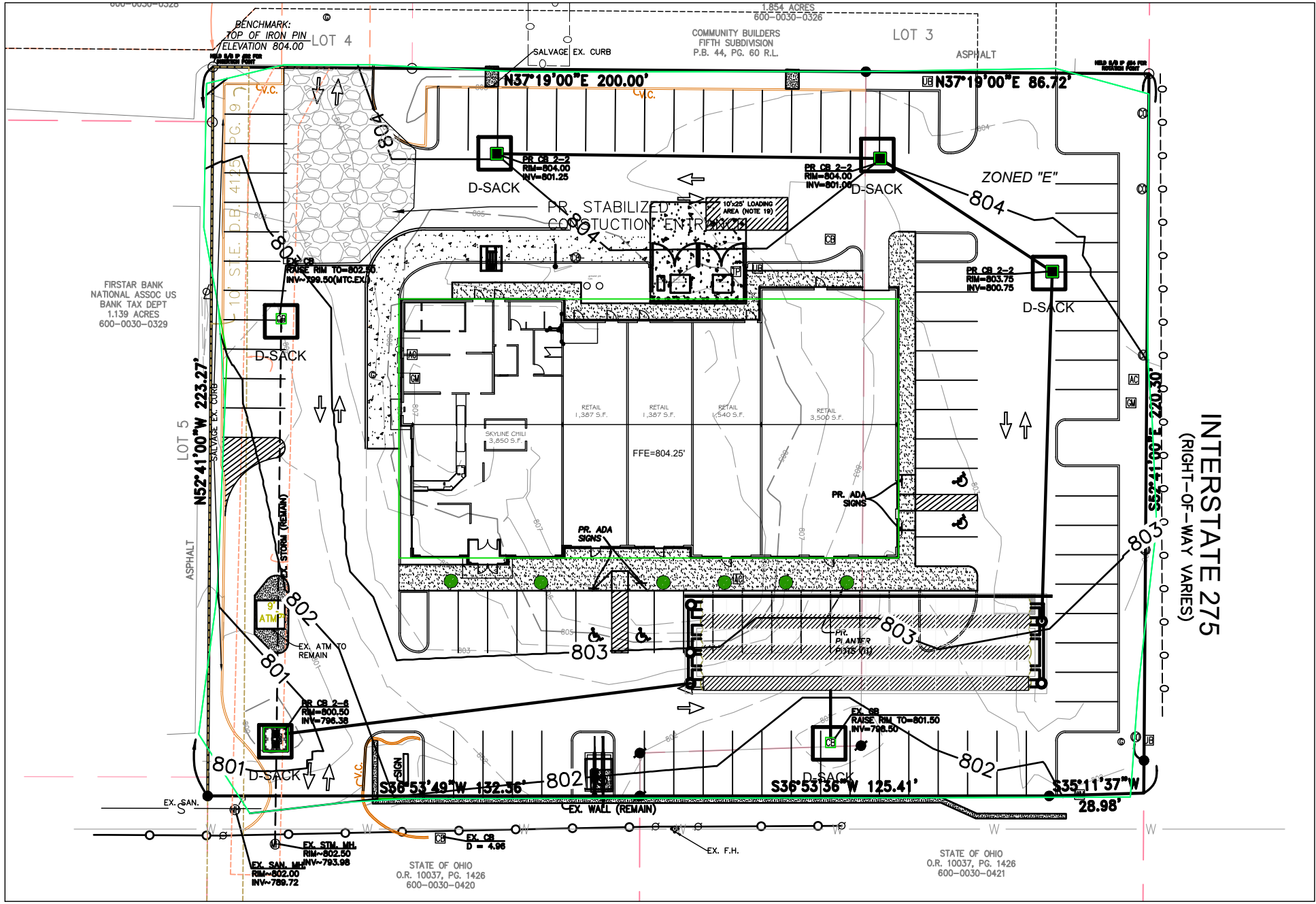


NOTES:

FILTER FABRIC SHALL BE FASTENED TO WOODEN POSTS USING 1/2" HEAVY DUTY STAPLES. FILTER FABRIC SHALL BE PLACED IN A CONTINUOUS ROLL TO MINIMIZE THE OCCURRENCE OF JOINTS. WHERE JOINTS CANNOT BE AVOIDED, FABRIC SHALL BE SPLICED TOGETHER AT SUPPORT POSTS, WITH A MINIMUM OF 6-INCH OVERLAP, AND SECURLY SEALED.

SILT FENCE (SF) DETAIL

NO SCALE



**Straw Bale Drop Inlet Protection**

Exhibit 1

Two stakes per straw bale

Source: Adapted from Multigun Soil Erosion and Sedimentation Control Guidebook, 1975

For information on this measure, see Chapter 7, page 159

**Straw Bale Drop Inlet Protection**

Exhibit 2

Compacted fill to prevent piping

Bale turned on its side to prevent deterioration of bindings

Bales entrained four (4) inches into the soil

Source: Adapted from Michigan Soil Erosion and Sedimentation Control Guidebook, 1975

For information on this measure, see Chapter 7, page 159

**Concrete Washout (Above Grade System) Worksheet**

Metal pins or staples to secure the polyethylene lining to the straw bales

Wood or metal stakes to secure the straw bales (2 per straw bale)

Straw bale (alternative materials or products may be used to provide structural containment. Alternative materials or products will require design modification.)

Polyethylene lining (10 millimeters). The lining should extend over the straw bales.

Plan View Not to Scale

L = inside length W = inside width

Metal pins or staples to secure the polyethylene lining to the straw bales

Wood or metal stakes to secure the straw bales (2 per straw bale)

Straw bale (alternative materials or products may be used to provide structural containment)

Compacted soil material

Straw bales entrenched 4 inches into the soil

Section A-A Not to scale

For information on this measure, see Chapter 7, page 247

STATE OF OHIO  
PROFESSIONAL ENGINEER  
JONATHAN R. EVANS  
E-65653  
REGISTERED ENGINEER No. 65653  
2/14/2017

REVISIONS

NO.	DESCRIPTION
BY	
DATE	

EVANS ENGINEERING  
4240 AIRPORT ROAD, SUITE 108  
CINCINNATI, OHIO 45226  
(513) 321-2168  
(513) 321-2173 FAX  
ATTN: JONATHAN R. EVANS, P.E.

GRAPHIC SCALE

40 0 20 40 60 80 100  
( IN FEET )  
1 inch = 40 ft.

SKYLINE CHILI POINT

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NOTES AND DETAILS

10869 & 10875 MONTGOMERY ROAD, SYCAMORE TOWNSHIP, HAMILTON COUNTY, OHIO

SCALE: HORIZ. VERT.  
1"=40' N/A

JOB NO. 15-132  
DATE Feb. 14, 2017

SHEET NO.

C-5